Full wwPDB EM Validation Report ⓘ

Mar 6, 2026 – 11:45 AM UTC

PDB ID	:	8I7R / pdb_00008i7r
EMDB ID	:	EMD-35230
Title	:	In situ structure of axonemal doublet microtubules in mouse sperm with 48-nm repeat
Authors	:	Zhu, Y.; Yin, G.L.; Tai, L.H.; Sun, F.
Deposited on	:	2023-02-02
Resolution	:	6.50 Å(reported)

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

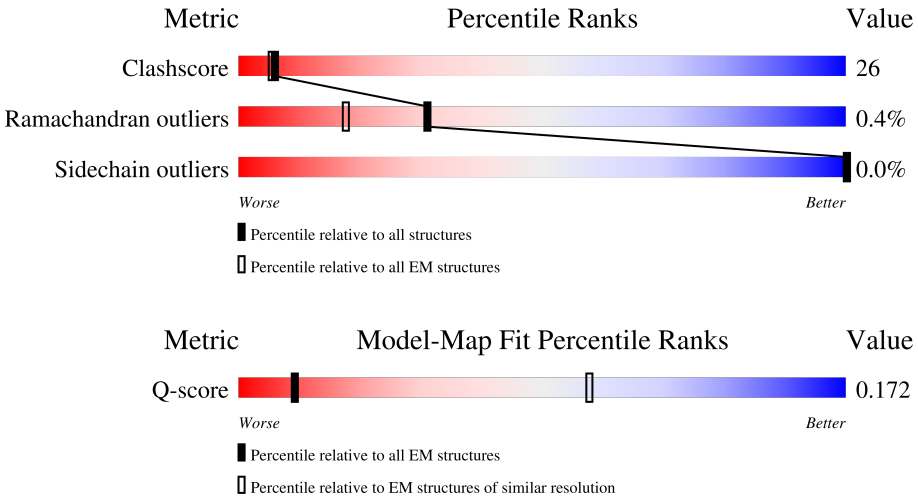
EMDB validation analysis	:	0.0.1.dev132
Mogul	:	2022.3.0, CSD as543be (2022)
MolProbity	:	4-5-2 with Phenix2.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data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

1 Overall quality at a glance

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

The reported resolution of this entry is 6.50 Å.

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



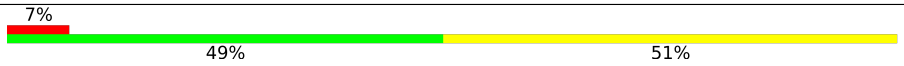
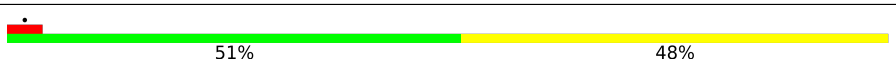
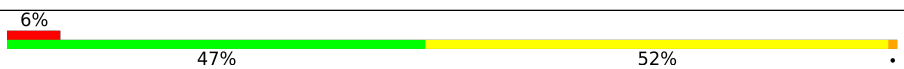
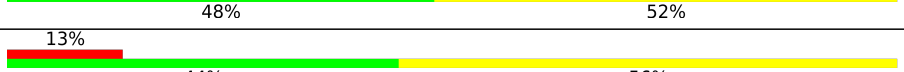
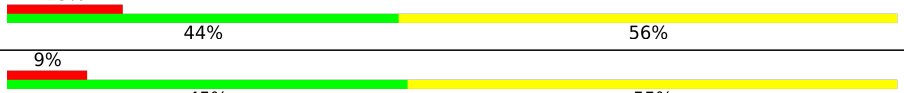
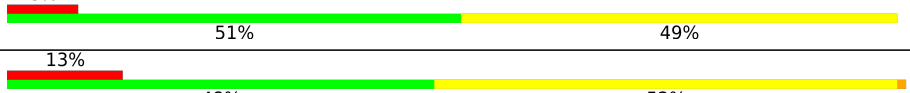
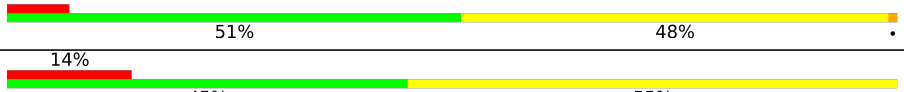
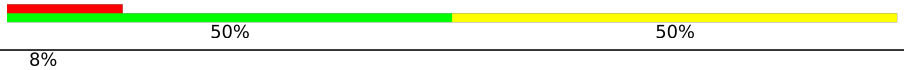
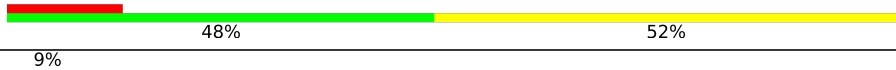
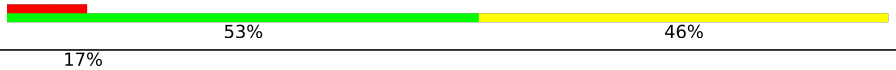
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	556 (6.00 - 7.00)

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

Mol	Chain	Length	Quality of chain
1	A	491	8% 32% 33% 36%
1	B	491	10% 19% 21% 60%
2	A1	418	39% 36% 25%
2	A2	418	49% 46% 5%

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Mol	Chain	Length	Quality of chain
2	A3	418	
2	A4	418	
3	AB	427	
3	AD	427	
3	AF	427	
3	AH	427	
3	AJ	427	
3	AL	427	
3	BB	427	
3	BD	427	
3	BF	427	
3	BH	427	
3	BJ	427	
3	BL	427	
3	CB	427	
3	CD	427	
3	CF	427	
3	CH	427	
3	CJ	427	
3	CL	427	
3	DB	427	
3	DD	427	
3	DF	427	
3	DH	427	
3	DJ	427	

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Mol	Chain	Length	Quality of chain
3	DL	427	12% 52% 47%
3	EB	427	18% 48% 52%
3	ED	427	10% 45% 55%
3	EF	427	19% 52% 48%
3	EH	427	12% 52% 48%
3	EJ	427	25% 43% 56%
3	EL	427	21% 48% 52%
3	FB	427	21% 50% 49%
3	FD	427	14% 49% 51%
3	FF	427	23% 52% 48%
3	FH	427	16% 50% 49%
3	FJ	427	21% 51% 48%
3	FL	427	22% 50% 50%
3	GB	427	22% 45% 55%
3	GD	427	19% 47% 52%
3	GF	427	26% 50% 49%
3	GH	427	22% 49% 50%
3	GJ	427	22% 48% 52%
3	GL	427	27% 48% 52%
3	HB	427	28% 52% 48%
3	HD	427	20% 52% 48%
3	HF	427	27% 51% 48%
3	HH	427	21% 48% 51%
3	HJ	427	25% 47% 53%
3	HL	427	27% 45% 54%

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Mol	Chain	Length	Quality of chain
3	IB	427	19% 44% 55%
3	ID	427	18% 48% 52%
3	IF	427	20% 50% 49%
3	IH	427	17% 48% 52%
3	IJ	427	16% 49% 51%
3	IL	427	21% 48% 52%
3	JB	427	12% 52% 47%
3	JD	427	10% 50% 50%
3	JF	427	16% 56% 44%
3	JH	427	9% 49% 51%
3	JJ	427	15% 51% 48%
3	JL	427	16% 53% 47%
3	KB	427	12% 48% 52%
3	KD	427	7% 46% 53%
3	KF	427	9% 51% 48%
3	KH	427	6% 46% 54%
3	KJ	427	52% 48%
3	KL	427	16% 45% 55%
3	LB	427	14% 44% 56%
3	LD	427	6% 45% 54%
3	LF	427	5% 48% 52%
3	LH	427	5% 47% 52%
3	LJ	427	43% 57%
3	LL	427	11% 49% 50%
3	MB	427	13% 50% 50%

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Mol	Chain	Length	Quality of chain
3	MD	427	43% 57%
3	MF	427	49% 50%
3	MH	427	42% 58%
3	MJ	427	5% 52% 47%
3	ML	427	7% 46% 53%
3	NB	427	38% 58% 41%
3	ND	427	25% 54% 45%
3	NF	427	31% 53% 47%
3	NH	427	24% 49% 50%
3	NJ	427	37% 55% 44%
3	NL	427	35% 57% 42%
3	OB	427	64% 50% 49%
3	OD	427	53% 53% 46%
3	OF	427	53% 51% 48%
3	OH	427	48% 56% 44%
3	OJ	427	57% 53% 46%
3	OL	427	59% 57% 43%
3	PB	427	64% 54% 45%
3	PD	427	54% 51% 49%
3	PF	427	54% 52% 48%
3	PH	427	56% 51% 48%
3	PJ	427	53% 52% 47%
3	PL	427	67% 50% 50%
3	QB	427	70% 52% 47%
3	QD	427	56% 51% 49%

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Mol	Chain	Length	Quality of chain
3	QF	427	54% 51% 48%
3	QH	427	59% 53% 46%
3	QJ	427	58% 50% 50%
3	QL	427	70% 54% 46%
3	RB	427	74% 48% 51%
3	RD	427	67% 53% 46%
3	RF	427	55% 50% 49%
3	RH	427	64% 46% 54%
3	RJ	427	59% 53% 47%
3	RL	427	72% 53% 46%
3	SB	427	68% 50% 50%
3	SD	427	60% 53% 47%
3	SF	427	43% 53% 46%
3	SH	427	60% 52% 47%
3	SJ	427	53% 51% 48%
3	SL	427	70% 53% 46%
3	TB	427	68% 57% 43%
3	TD	427	60% 51% 48%
3	TF	427	40% 49% 50%
3	TH	427	57% 47% 52%
3	TJ	427	46% 52% 48%
3	TL	427	57% 48% 50%
3	TN	427	67% 51% 48%
3	UB	427	53% 53% 46%
3	UD	427	28% 52% 47%

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Mol	Chain	Length	Quality of chain
3	UF	427	40% 46% 53%
3	UH	427	35% 56% 44%
3	UJ	427	49% 50% 49%
3	UL	427	52% 57% 43%
3	VB	427	35% 48% 52%
3	VD	427	19% 52% 48%
3	VF	427	25% 50% 49%
3	VH	427	23% 55% 45%
3	VJ	427	30% 52% 47%
3	VL	427	40% 56% 43%
3	WB	427	20% 49% 51%
3	WD	427	16% 50% 49%
3	WF	427	15% 50% 50%
3	WH	427	15% 51% 48%
3	WJ	427	16% 51% 48%
3	WL	427	23% 54% 45%
4	AC	438	7% 44% 56%
4	AE	438	5% 45% 54%
4	AG	438	11% 47% 53%
4	AI	438	7% 45% 54%
4	AK	438	8% 47% 52%
4	AM	438	11% 46% 54%
4	BC	438	9% 49% 51%
4	BE	438	6% 45% 55%
4	BG	438	15% 48% 52%

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Mol	Chain	Length	Quality of chain
4	BI	438	8% 47% 53%
4	BK	438	10% 45% 55%
4	BM	438	12% 51% 49%
4	CC	438	13% 45% 55%
4	CE	438	13% 49% 51%
4	CG	438	18% 44% 56%
4	CI	438	13% 42% 58%
4	CK	438	14% 40% 59%
4	CM	438	16% 45% 54%
4	DA	438	20% 46% 54%
4	DC	438	12% 46% 54%
4	DE	438	17% 42% 57%
4	DG	438	17% 45% 55%
4	DI	438	15% 46% 54%
4	DK	438	19% 44% 55%
4	EA	438	21% 50% 50%
4	EC	438	16% 46% 54%
4	EE	438	19% 45% 54%
4	EG	438	21% 46% 54%
4	EI	438	14% 41% 59%
4	EK	438	25% 45% 55%
4	FA	438	31% 51% 49%
4	FC	438	20% 47% 53%
4	FE	438	18% 45% 54%
4	FG	438	27% 44% 56%

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Mol	Chain	Length	Quality of chain
4	FI	438	16% 46% 54%
4	FK	438	27% 44% 55%
4	GA	438	32% 50% 50%
4	GC	438	26% 44% 55%
4	GE	438	21% 42% 58%
4	GG	438	32% 45% 55%
4	GI	438	17% 42% 58%
4	GK	438	36% 49% 51%
4	HA	438	35% 44% 56%
4	HC	438	34% 45% 55%
4	HE	438	23% 44% 56%
4	HG	438	33% 45% 55%
4	HI	438	17% 41% 58%
4	HK	438	41% 47% 53%
4	IA	438	30% 46% 54%
4	IC	438	25% 47% 53%
4	IE	438	18% 45% 55%
4	IG	438	28% 45% 55%
4	II	438	16% 45% 55%
4	IK	438	27% 44% 56%
4	IM	438	24% 44% 56%
4	JA	438	20% 53% 47%
4	JC	438	13% 45% 55%
4	JE	438	16% 46% 53%
4	JG	438	17% 48% 52%

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Mol	Chain	Length	Quality of chain
4	JI	438	13% 47% 53%
4	JK	438	24% 47% 53%
4	KA	438	18% 45% 55%
4	KC	438	9% 43% 57%
4	KE	438	8% 44% 56%
4	KG	438	12% 47% 53%
4	KI	438	10% 41% 59%
4	KK	438	16% 43% 57%
4	LA	438	14% 46% 53%
4	LC	438	8% 42% 58%
4	LE	438	7% 45% 55%
4	LG	438	10% 45% 54%
4	LI	438	9% 46% 54%
4	LK	438	12% 46% 54%
4	MC	438	10% 40% 59%
4	ME	438	7% 46% 54%
4	MG	438	7% 45% 55%
4	MI	438	8% 46% 53%
4	MK	438	7% 44% 56%
4	MM	438	14% 46% 54%
4	NA	438	44% 56% 44%
4	NC	438	38% 50% 50%
4	NE	438	31% 48% 51%
4	NG	438	34% 49% 51%
4	NI	438	28% 50% 50%

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Mol	Chain	Length	Quality of chain
4	NK	438	41% 52% 48%
4	OA	438	72% 54% 45%
4	OC	438	66% 50% 50%
4	OE	438	50% 48% 51%
4	OG	438	56% 52% 48%
4	OI	438	47% 49% 50%
4	OK	438	62% 53% 47%
4	PA	438	71% 52% 48%
4	PC	438	67% 50% 50%
4	PE	438	46% 48% 52%
4	PG	438	58% 48% 52%
4	PI	438	53% 43% 57%
4	PK	438	71% 50% 50%
4	PM	438	68% 49% 51%
4	QC	438	67% 46% 54%
4	QE	438	48% 47% 53%
4	QG	438	57% 46% 54%
4	QI	438	53% 48% 52%
4	QK	438	64% 48% 51%
4	QM	438	71% 50% 50%
4	RC	438	76% 49% 51%
4	RE	438	54% 51% 49%
4	RG	438	66% 48% 52%
4	RI	438	60% 44% 55%
4	RK	438	63% 47% 53%

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Mol	Chain	Length	Quality of chain
4	RM	438	79% 50% 50%
4	SC	438	69% 48% 51%
4	SE	438	47% 48% 52%
4	SG	438	59% 46% 54%
4	SI	438	54% 42% 58%
4	SK	438	49% 49% 50%
4	SM	438	73% 50% 49%
4	TC	438	69% 47% 53%
4	TE	438	48% 52% 48%
4	TG	438	51% 49% 51%
4	TI	438	59% 50% 50%
4	TK	438	49% 48% 52%
4	TM	438	69% 50% 50%
4	UA	438	56% 53% 47%
4	UC	438	37% 48% 51%
4	UE	438	41% 45% 55%
4	UG	438	45% 45% 55%
4	UI	438	41% 48% 51%
4	UK	438	59% 51% 49%
4	VA	438	42% 52% 48%
4	VC	438	32% 49% 51%
4	VE	438	24% 46% 53%
4	VG	438	35% 47% 53%
4	VI	438	26% 50% 50%
4	VK	438	41% 48% 52%

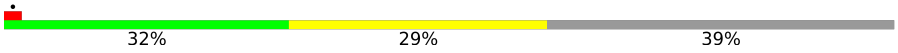
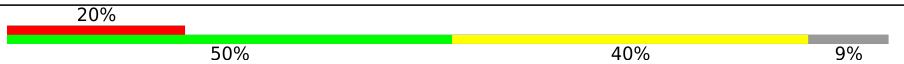
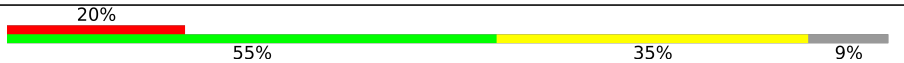
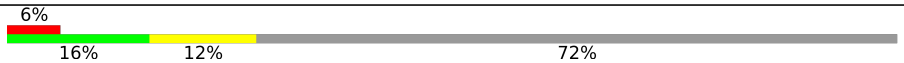
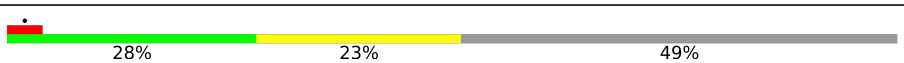
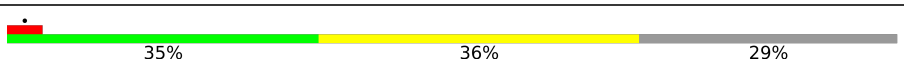
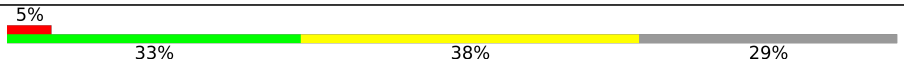
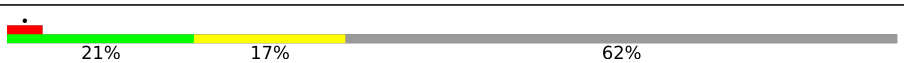
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Mol	Chain	Length	Quality of chain
4	WA	438	29% 54% 45%
4	WC	438	24% 50% 50%
4	WE	438	19% 47% 53%
4	WG	438	23% 46% 54%
4	WI	438	24% 47% 53%
4	WK	438	30% 47% 52%
5	B1	430	29% 27% 45%
5	B2	430	53% 44%
5	B3	430	53% 43%
5	B4	430	43% 30% 27%
5	B5	430	7% 5% 89%
5	B6	430	46% 38% 16%
5	B7	430	51% 42% 6%
5	B8	430	52% 40% 7%
5	B9	430	13% 14% 73%
6	C	395	19% 42% 52% 6%
6	D	395	28% 45% 49% 6%
7	C1	490	10% 10% 80%
7	C2	490	41% 38% 21%
7	C3	490	39% 40% 21%
7	C4	490	37% 37% 26%
7	C5	490	5% 8% 87%
7	C6	490	25% 16% 59%
7	C7	490	42% 38% 20%
7	C8	490	44% 36% 20%

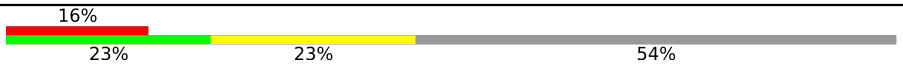
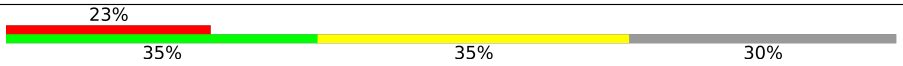
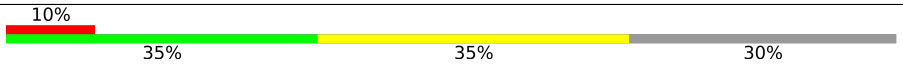
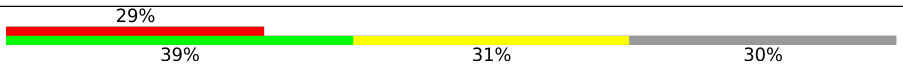
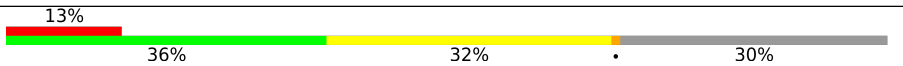
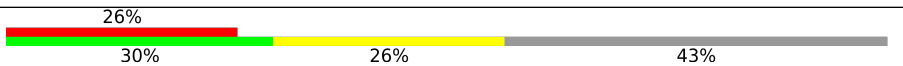
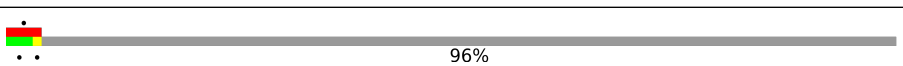
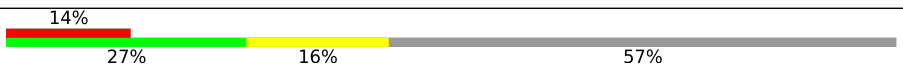
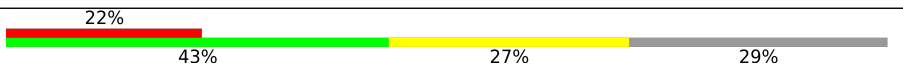
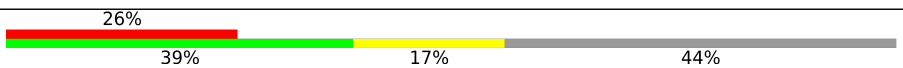
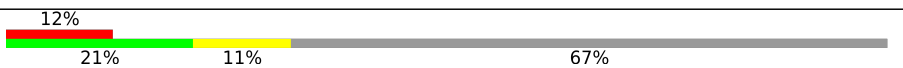
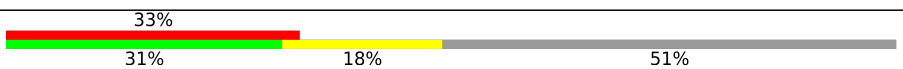
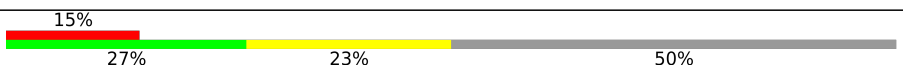
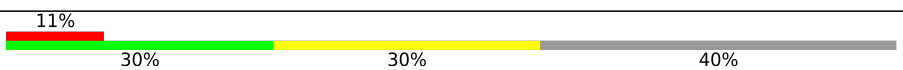
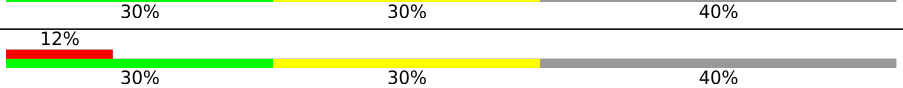
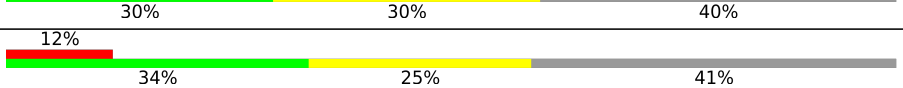
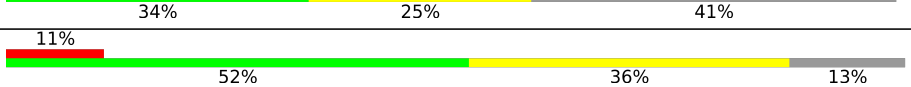
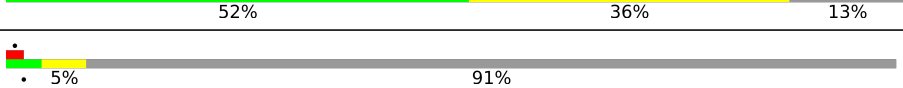
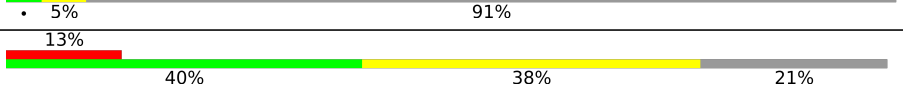
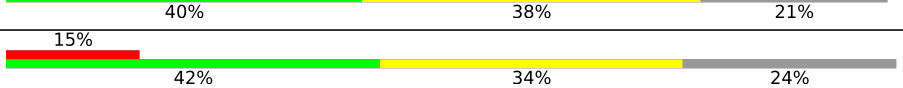
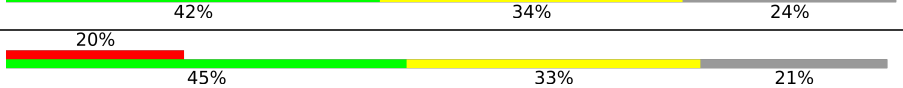
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Mol	Chain	Length	Quality of chain
7	C9	490	
7	Ca	490	
7	Cb	490	
7	Cc	490	
7	Cd	490	
8	D1	447	
8	D2	447	
8	D3	447	
8	D4	447	
8	D5	447	
8	D6	447	
8	D7	447	
8	D8	447	
8	D9	447	
8	Da	447	
9	E	853	
9	F	853	
10	E1	206	
10	E2	206	
10	E3	206	
10	E4	206	
11	F1	557	
11	F2	557	
11	F3	557	
11	F4	557	

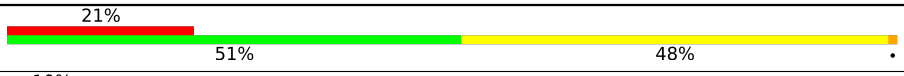
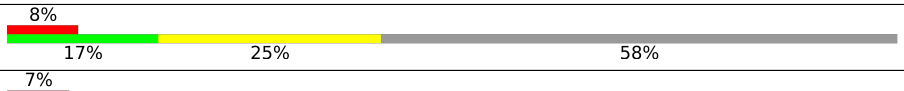
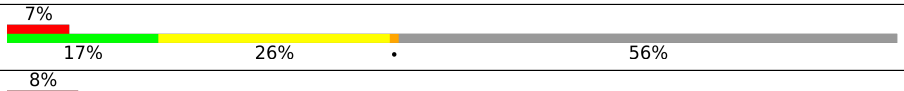
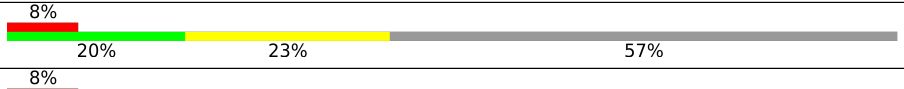
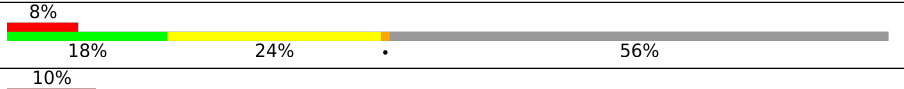
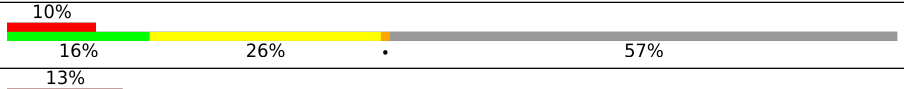
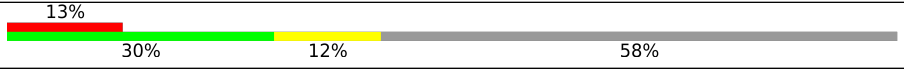
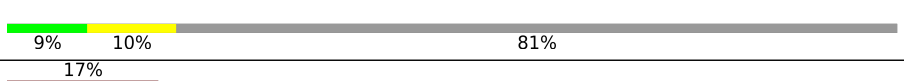
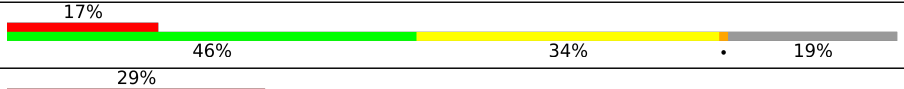
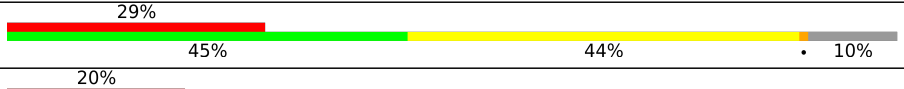
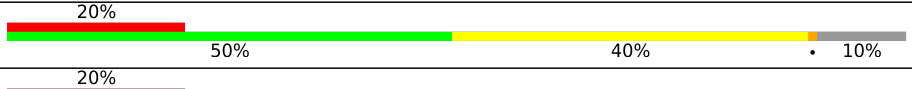
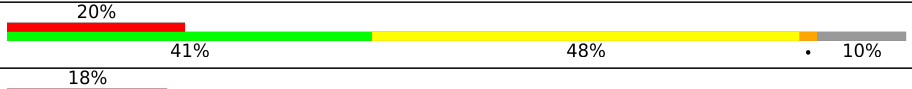
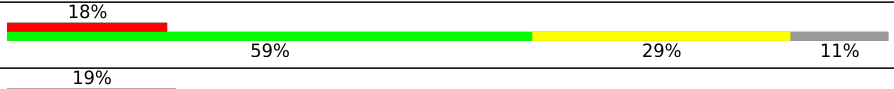
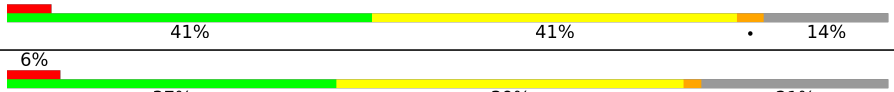
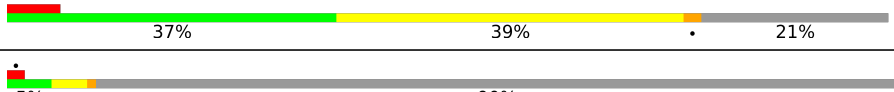
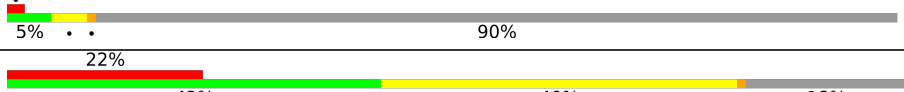
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Mol	Chain	Length	Quality of chain
11	F5	557	
11	F6	557	
11	F7	557	
11	F8	557	
11	F9	557	
11	Fa	557	
11	Fb	557	
11	Fc	557	
11	Fd	557	
11	Fe	557	
11	Ff	557	
11	Fg	557	
11	Fh	557	
11	Fi	557	
11	Fj	557	
11	Fk	557	
11	Fl	557	
11	Fm	557	
12	G	514	
12	H	514	
13	G1	648	
13	G2	648	
13	G3	648	
14	G4	750	
14	G5	750	

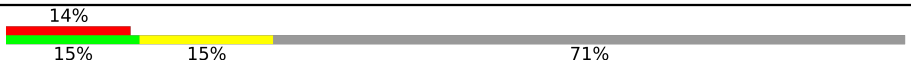
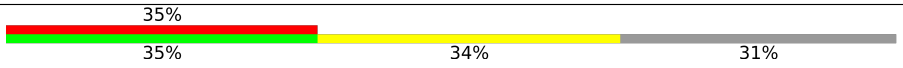
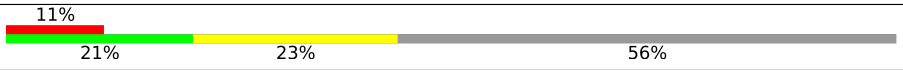
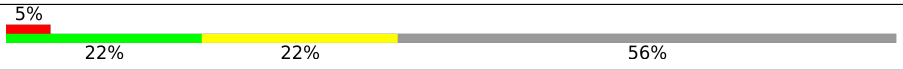
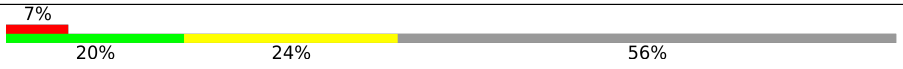
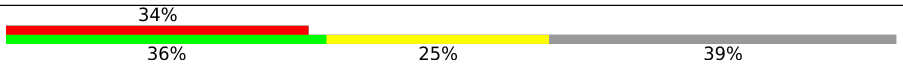
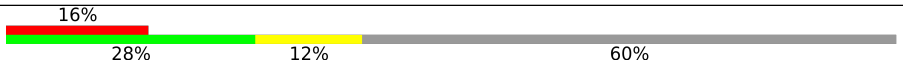
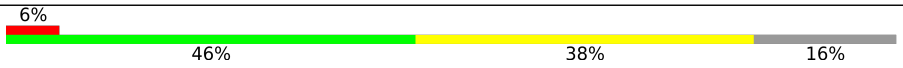
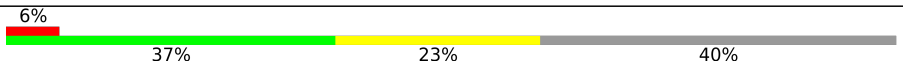
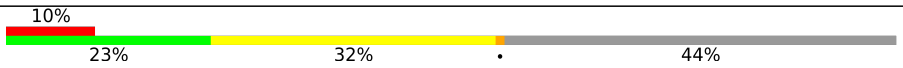
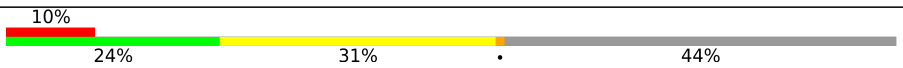
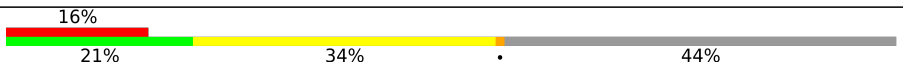
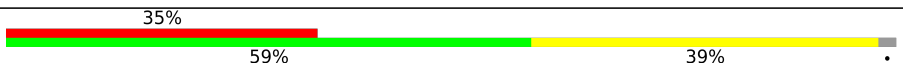
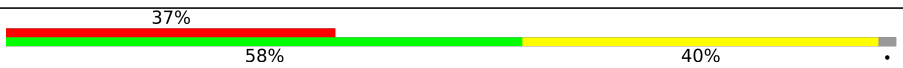
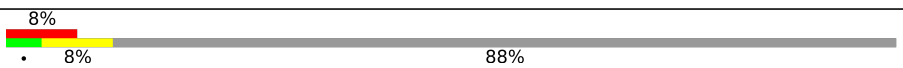
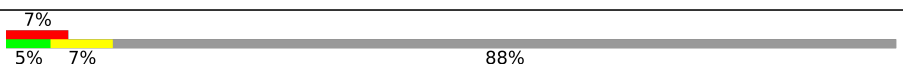
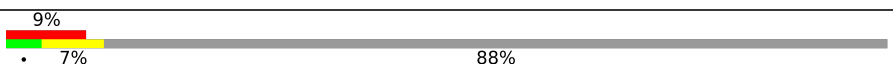
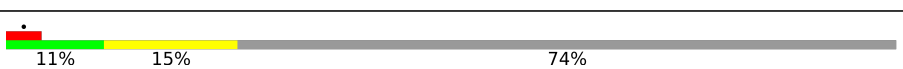
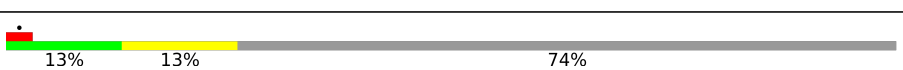
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Mol	Chain	Length	Quality of chain
14	G6	750	
15	H1	319	
15	H2	319	
15	H3	319	
15	H4	319	
15	H5	319	
15	H6	319	
16	I	228	
17	I1	200	
17	I2	200	
17	I3	200	
18	J	196	
19	J1	189	
19	J2	189	
19	J3	189	
20	K	303	
20	L	303	
21	K1	499	
21	K2	499	
21	K3	499	
21	K4	499	
21	K5	499	
22	L1	255	
22	L2	255	
22	L3	255	

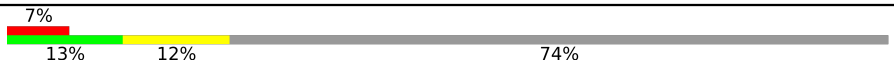
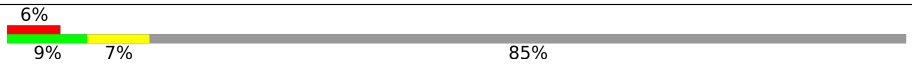
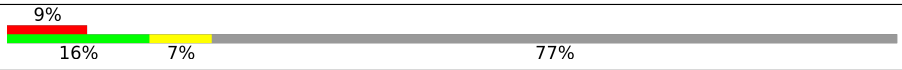
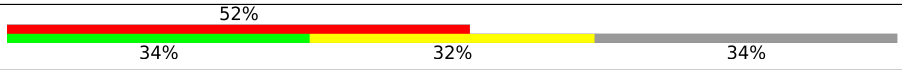
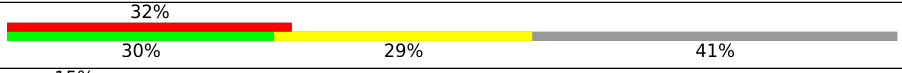
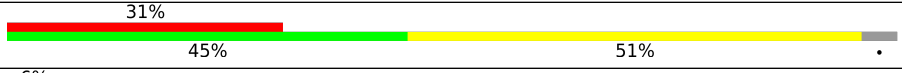
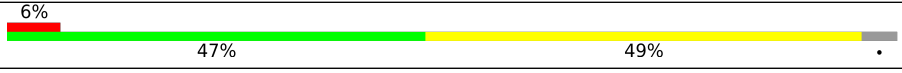
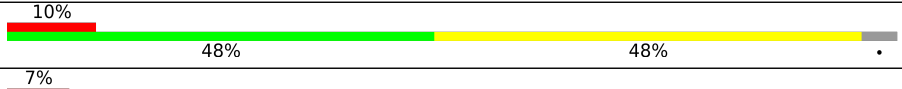
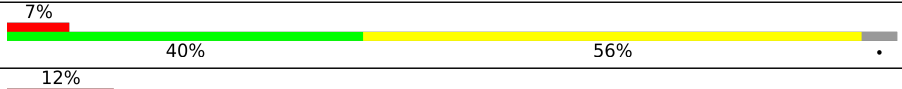
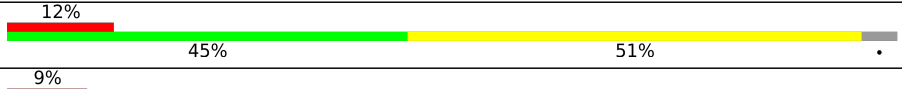
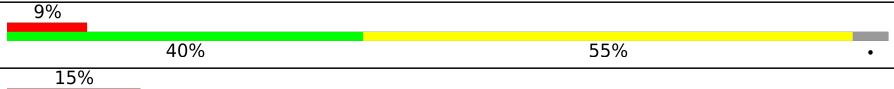
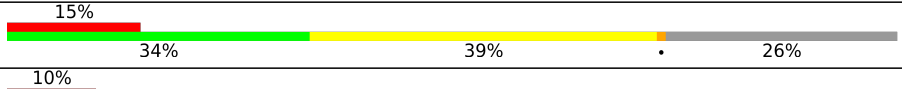
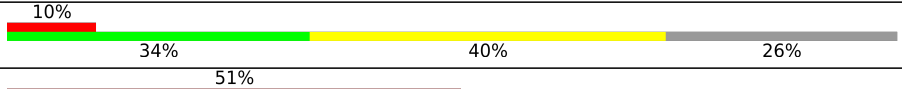
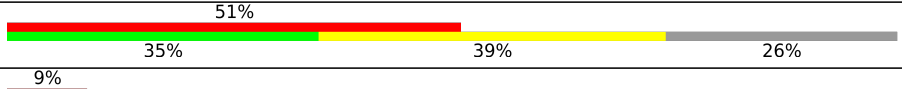
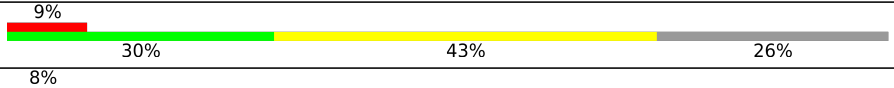
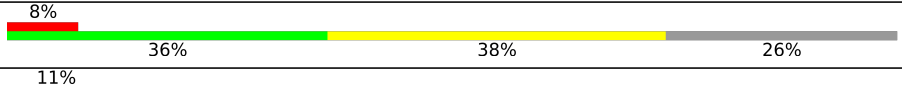
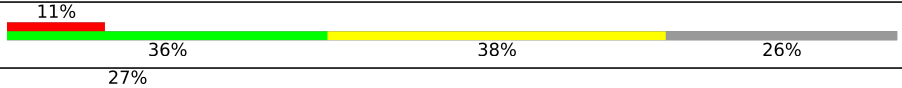
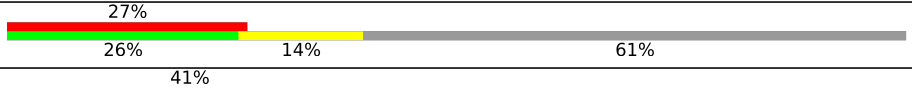
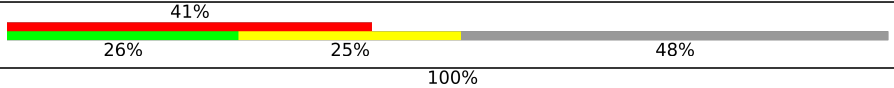
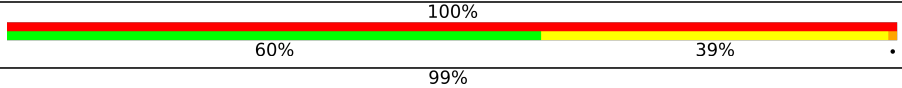
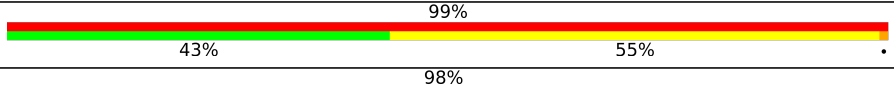
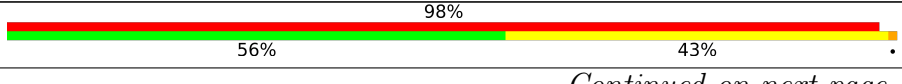
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Mol	Chain	Length	Quality of chain
22	L4	255	
23	M	167	
24	M1	141	
24	M2	141	
24	M3	141	
25	N	122	
26	N1	168	
26	N2	168	
26	N3	168	
26	N4	168	
27	O	377	
27	P	377	
27	Q	377	
27	R	377	
28	O1	189	
28	O2	189	
28	O3	189	
29	P1	620	
29	P2	620	
29	P3	620	
30	Q1	1516	
30	Q2	1516	
30	Q3	1516	
31	R1	283	
31	R2	283	

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Mol	Chain	Length	Quality of chain
31	R3	283	
32	S	470	
32	T	470	
33	U	551	
33	V	551	
33	W	551	
33	X	551	
34	XA	193	
34	XB	193	
34	XC	193	
34	XD	193	
34	XE	193	
34	XF	193	
34	XG	193	
35	XH	241	
35	XI	241	
35	XJ	241	
35	XK	241	
35	XL	241	
35	XM	241	
36	Y	547	
36	Z	547	
37	YA	168	
37	YB	168	
37	YC	168	

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Mol	Chain	Length	Quality of chain
37	YD	168	98% 49% 50%
37	YE	168	98% 49% 51%
37	YF	168	96% 48% 52%
37	YG	168	96% 58% 42%
37	YH	168	92% 49% 51%
37	YI	168	99% 50% 49%
37	YJ	168	100% 61% 38%
37	YK	168	99% 49% 50%
37	YL	168	99% 48% 52%
37	YM	168	98% 45% 54%
37	YN	168	81% 48% 51%
37	YO	168	100% 56% 43%
37	YP	168	97% 44% 55%
37	YQ	168	96% 49% 51%
37	YR	168	100% 49% 51%
37	YS	168	100% 59% 40%
37	YT	168	99% 58% 41%
37	YU	168	100% 55% 45%
37	YV	168	100% 50% 49%
37	YW	168	100% 51% 49%
38	a	101	42% 49% 10%

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
39	GTP	AF	501	-	-	X	-
39	GTP	BF	501	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
39	GTP	BH	501	-	-	X	-
39	GTP	BK	501	-	-	X	-
39	GTP	BL	501	-	-	X	-
39	GTP	BM	501	-	-	X	-
39	GTP	CF	501	-	-	X	-
39	GTP	DC	501	-	-	X	-
39	GTP	EB	501	-	-	X	-
39	GTP	EE	501	-	-	X	-
39	GTP	EI	501	-	-	X	-
39	GTP	FK	501	-	-	X	-
39	GTP	GB	501	-	-	X	-
39	GTP	GC	501	-	-	X	-
39	GTP	GH	501	-	-	X	-
39	GTP	HH	501	-	-	X	-
39	GTP	IG	501	-	-	X	-
39	GTP	IJ	501	-	-	X	-
39	GTP	JH	501	-	-	X	-
39	GTP	JI	501	-	-	X	-
39	GTP	KD	501	-	-	X	-
39	GTP	KL	501	-	-	X	-
39	GTP	MC	501	-	-	X	-
39	GTP	MF	501	-	-	X	-
39	GTP	MJ	501	-	-	X	-
39	GTP	ML	501	-	-	X	-
39	GTP	NH	501	-	-	X	-
39	GTP	NI	501	-	-	X	-
39	GTP	PB	501	-	-	X	-
39	GTP	QB	501	-	-	X	-
39	GTP	RD	501	-	-	X	-
39	GTP	RH	501	-	-	X	-
39	GTP	SH	501	-	-	X	-
39	GTP	TJ	501	-	-	X	-
39	GTP	UF	501	-	-	X	-
39	GTP	UK	501	-	-	X	-
39	GTP	VF	501	-	-	X	-
39	GTP	VH	501	-	-	X	-
39	GTP	WD	501	-	-	X	-
39	GTP	WL	501	-	-	X	-

2 Entry composition (i)

There are 39 unique types of molecules in this entry. The entry contains 1283344 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

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

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	315	Total	C	N	O	S	0	0
			2736	1673	516	534	13		
1	B	196	Total	C	N	O	S	0	0
			1673	1036	310	319	8		

- Molecule 2 is a protein called Tektin-1.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	A1	315	Total	C	N	O	S	0	0
			2578	1598	464	507	9		
2	A2	396	Total	C	N	O	S	0	0
			3251	2013	588	640	10		
2	A3	396	Total	C	N	O	S	0	0
			3251	2013	588	640	10		
2	A4	188	Total	C	N	O	S	0	0
			1563	971	277	314	1		

- Molecule 3 is a protein called Tubulin beta-4B chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	AB	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	AD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	AF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	AH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	AJ	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	AL	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	BB	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	BD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	BF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	BH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	BJ	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	BL	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	CB	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	CD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	CF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	CH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	CJ	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	CL	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	DB	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	DD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	DF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	DH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	DJ	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	DL	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	EB	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	ED	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	EF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	EH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	EJ	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	EL	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	FB	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	FD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	FF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	FH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	FJ	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	FL	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	GB	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	GD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	GF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	GH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	GJ	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	GL	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	HB	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	HD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	HF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	HH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	HJ	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	HL	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	IB	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	ID	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	IF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	IH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	IJ	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	IL	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	JB	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	JD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	JF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	JH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	JJ	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	JL	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	KB	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	KD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	KF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	KH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	KJ	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	KL	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	LB	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	LD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	LF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	LH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	LJ	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	LL	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	MB	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	MD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	MF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	MH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	MJ	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	ML	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	NB	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	ND	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	NF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	NH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	NJ	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	NL	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	OB	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	OD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	OF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	OH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	OJ	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	OL	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	PB	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	PD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	PF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	PH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	PJ	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	PL	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	QB	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	QD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	QF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	QH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	QJ	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	QL	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	RB	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	RD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	RF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	RH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	RJ	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	RL	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	SB	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	SD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	SF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	SH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	SJ	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	SL	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	TB	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	TD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	TF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	TH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	TJ	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	TL	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	TN	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	UB	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	UD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	UF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	UH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	UJ	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	UL	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	VB	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	VD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	VF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	VH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	VJ	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	VL	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	WB	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	WD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	WF	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	WH	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	WJ	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
3	WL	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		

- Molecule 4 is a protein called Detyrosinated tubulin alpha-3 chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	AC	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	AE	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	AG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	AI	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	AK	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	AM	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	BC	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	BE	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	BG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	BI	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	BK	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	BM	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	CC	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
4	CE	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	CG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	CI	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	CK	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	CM	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	DA	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	DC	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	DE	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	DG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	DI	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	DK	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	EA	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	EC	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	EE	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	EG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	EI	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	EK	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	FA	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	FC	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	FE	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	FG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
4	FI	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	FK	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	GA	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	GC	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	GE	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	GG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	GI	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	GK	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	HA	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	HC	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	HE	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	HG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	HI	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	HK	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	IA	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	IC	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	IE	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	IG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	II	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	IK	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	IM	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
4	JA	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	JC	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	JE	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	JG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	JI	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	JK	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	KA	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	KC	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	KE	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	KG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	KI	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	KK	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	LA	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	LC	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	LE	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	LG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	LI	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	LK	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	MC	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	ME	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	MG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
4	MI	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	MK	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	MM	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	NA	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	NC	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	NE	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	NG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	NI	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	NK	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	OA	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	OC	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	OE	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	OG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	OI	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	OK	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	PA	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	PC	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	PE	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	PG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	PI	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	PK	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
4	PM	438	Total 3418	C 2166	N 581	O 649	S 22	0	0
4	QC	438	Total 3418	C 2166	N 581	O 649	S 22	0	0
4	QE	438	Total 3418	C 2166	N 581	O 649	S 22	0	0
4	QG	438	Total 3418	C 2166	N 581	O 649	S 22	0	0
4	QI	438	Total 3418	C 2166	N 581	O 649	S 22	0	0
4	QK	438	Total 3418	C 2166	N 581	O 649	S 22	0	0
4	QM	438	Total 3418	C 2166	N 581	O 649	S 22	0	0
4	RC	438	Total 3418	C 2166	N 581	O 649	S 22	0	0
4	RE	438	Total 3418	C 2166	N 581	O 649	S 22	0	0
4	RG	438	Total 3418	C 2166	N 581	O 649	S 22	0	0
4	RI	438	Total 3418	C 2166	N 581	O 649	S 22	0	0
4	RK	438	Total 3418	C 2166	N 581	O 649	S 22	0	0
4	RM	438	Total 3418	C 2166	N 581	O 649	S 22	0	0
4	SC	438	Total 3418	C 2166	N 581	O 649	S 22	0	0
4	SE	438	Total 3418	C 2166	N 581	O 649	S 22	0	0
4	SG	438	Total 3418	C 2166	N 581	O 649	S 22	0	0
4	SI	438	Total 3418	C 2166	N 581	O 649	S 22	0	0
4	SK	438	Total 3418	C 2166	N 581	O 649	S 22	0	0
4	SM	438	Total 3418	C 2166	N 581	O 649	S 22	0	0
4	TC	438	Total 3418	C 2166	N 581	O 649	S 22	0	0
4	TE	438	Total 3418	C 2166	N 581	O 649	S 22	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
4	TG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	TI	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	TK	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	TM	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	UA	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	UC	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	UE	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	UG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	UI	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	UK	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	VA	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	VC	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	VE	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	VG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	VI	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	VK	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	WA	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	WC	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	WE	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	WG	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		
4	WI	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
4	WK	438	Total	C	N	O	S	0	0
			3418	2166	581	649	22		

- Molecule 5 is a protein called Tektin-2.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	B1	238	Total	C	N	O	S	0	0
			1941	1202	352	378	9		
5	B2	416	Total	C	N	O	S	0	0
			3417	2102	632	669	14		
5	B3	416	Total	C	N	O	S	0	0
			3417	2102	632	669	14		
5	B4	312	Total	C	N	O	S	0	0
			2553	1566	473	504	10		
5	B5	48	Total	C	N	O		0	0
			406	246	82	78			
5	B6	363	Total	C	N	O	S	0	0
			2977	1834	548	584	11		
5	B7	405	Total	C	N	O	S	0	0
			3324	2047	613	650	14		
5	B8	398	Total	C	N	O	S	0	0
			3271	2011	605	641	14		
5	B9	115	Total	C	N	O	S	0	0
			952	587	175	184	6		

- Molecule 6 is a protein called Nucleoside diphosphate kinase 7.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	C	372	Total	C	N	O	S	0	0
			2945	1866	511	548	20		
6	D	372	Total	C	N	O	S	0	0
			2945	1866	511	548	20		

- Molecule 7 is a protein called Tektin-3.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	C1	98	Total	C	N	O	S	0	0
			803	485	157	160	1		
7	C2	388	Total	C	N	O	S	0	0
			3169	1942	586	627	14		
7	C3	388	Total	C	N	O	S	0	0
			3169	1942	586	627	14		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	C4	361	Total	C	N	O	S	0	0
			2934	1801	540	579	14		
7	C5	63	Total	C	N	O	S	0	0
			523	322	99	100	2		
7	C6	200	Total	C	N	O	S	0	0
			1633	990	311	328	4		
7	C7	394	Total	C	N	O	S	0	0
			3216	1972	595	635	14		
7	C8	394	Total	C	N	O	S	0	0
			3216	1972	595	635	14		
7	C9	298	Total	C	N	O	S	0	0
			2426	1496	440	477	13		
7	Ca	219	Total	C	N	O	S	0	0
			1797	1111	327	347	12		
7	Cb	388	Total	C	N	O	S	0	0
			3169	1942	586	627	14		
7	Cc	388	Total	C	N	O	S	0	0
			3169	1942	586	627	14		
7	Cd	264	Total	C	N	O	S	0	0
			2154	1314	402	430	8		

- Molecule 8 is a protein called Tektin-4.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	D1	56	Total	C	N	O	S	0	0
			467	290	87	89	1		
8	D2	365	Total	C	N	O	S	0	0
			2997	1834	552	596	15		
8	D3	425	Total	C	N	O	S	0	0
			3488	2138	648	685	17		
8	D4	425	Total	C	N	O	S	0	0
			3488	2138	648	685	17		
8	D5	130	Total	C	N	O	S	0	0
			1063	652	199	206	6		
8	D6	75	Total	C	N	O	S	0	0
			612	376	116	118	2		
8	D7	369	Total	C	N	O	S	0	0
			3031	1852	566	597	16		
8	D8	398	Total	C	N	O	S	0	0
			3291	2017	613	645	16		
8	D9	394	Total	C	N	O	S	0	0
			3260	1998	608	638	16		

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Mol	Chain	Residues	Atoms	AltConf	Trace
8	Da	58	Total C N O 490 300 96 94	0	0

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

Mol	Chain	Residues	Atoms	AltConf	Trace
9	E	265	Total C N O S 2160 1360 390 405 5	0	0
9	F	149	Total C N O S 1182 762 209 206 5	0	0

- Molecule 10 is a protein called Tektin bundle-interacting protein 1.

Mol	Chain	Residues	Atoms	AltConf	Trace
10	E1	187	Total C N O S 1558 992 295 265 6	0	0
10	E2	187	Total C N O S 1558 992 295 265 6	0	0
10	E3	187	Total C N O S 1558 992 295 265 6	0	0
10	E4	57	Total C N O S 472 306 87 78 1	0	0

- Molecule 11 is a protein called Tektin-5.

Mol	Chain	Residues	Atoms	AltConf	Trace
11	F1	284	Total C N O S 2335 1443 428 444 20	0	0
11	F2	393	Total C N O S 3224 1994 590 616 24	0	0
11	F3	393	Total C N O S 3224 1994 590 616 24	0	0
11	F4	212	Total C N O S 1745 1064 326 343 12	0	0
11	F5	256	Total C N O S 2116 1296 396 411 13	0	0
11	F6	389	Total C N O S 3194 1973 586 612 23	0	0
11	F7	389	Total C N O S 3194 1973 586 612 23	0	0
11	F8	229	Total C N O S 1877 1170 340 350 17	0	0

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Mol	Chain	Residues	Atoms	AltConf	Trace
11	F9	173	Total C N O S 1412 885 254 262 11	0	0
11	Fa	389	Total C N O S 3194 1973 586 612 23	0	0
11	Fb	389	Total C N O S 3194 1973 586 612 23	0	0
11	Fc	315	Total C N O S 2585 1591 476 500 18	0	0
11	Fd	23	Total C N O 199 119 42 38	0	0
11	Fe	237	Total C N O S 1946 1201 354 375 16	0	0
11	Ff	393	Total C N O S 3224 1994 590 616 24	0	0
11	Fg	311	Total C N O S 2561 1587 465 488 21	0	0
11	Fh	183	Total C N O S 1495 941 266 275 13	0	0
11	Fi	272	Total C N O S 2235 1383 406 429 17	0	0
11	Fj	277	Total C N O S 2272 1406 409 441 16	0	0
11	Fk	332	Total C N O S 2721 1685 493 523 20	0	0
11	Fl	332	Total C N O S 2721 1685 493 523 20	0	0
11	Fm	327	Total C N O S 2677 1656 484 517 20	0	0

- Molecule 12 is a protein called Cilia- and flagella-associated protein 53.

Mol	Chain	Residues	Atoms	AltConf	Trace
12	G	448	Total C N O S 3804 2315 737 736 16	0	0
12	H	47	Total C N O S 387 234 74 77 2	0	0

- Molecule 13 is a protein called EF-hand domain-containing protein 1.

Mol	Chain	Residues	Atoms	AltConf	Trace
13	G1	510	Total C N O S 4192 2708 704 763 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
13	G2	495	Total	C	N	O	S	0	0
			4081	2634	687	743	17		
13	G3	511	Total	C	N	O	S	0	0
			4200	2712	706	765	17		

- Molecule 14 is a protein called EF-hand domain-containing family member C2.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	G4	748	Total	C	N	O	S	0	0
			6177	3989	1028	1131	29		
14	G5	747	Total	C	N	O	S	0	0
			6169	3983	1027	1130	29		
14	G6	747	Total	C	N	O	S	0	0
			6169	3983	1027	1130	29		

- Molecule 15 is a protein called Protein FAM166A.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	H1	139	Total	C	N	O	S	0	0
			1138	727	203	202	6		
15	H2	135	Total	C	N	O	S	0	0
			1107	708	196	198	5		
15	H3	139	Total	C	N	O	S	0	0
			1138	727	203	202	6		
15	H4	138	Total	C	N	O	S	0	0
			1127	721	199	201	6		
15	H5	139	Total	C	N	O	S	0	0
			1138	727	203	202	6		
15	H6	136	Total	C	N	O	S	0	0
			1118	714	200	199	5		

- Molecule 16 is a protein called Cilia- and flagella-associated protein 95.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	I	96	Total	C	N	O	S	0	0
			781	490	130	157	4		

- Molecule 17 is a protein called Protein FAM166C.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	I1	38	Total	C	N	O	S	0	0
			298	192	47	58	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
17	I2	38	Total	C	N	O	S	0	0
			298	192	47	58	1		
17	I3	38	Total	C	N	O	S	0	0
			298	192	47	58	1		

- Molecule 18 is a protein called Cilia- and flagella-associated protein 107.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	J	158	Total	C	N	O	S	0	0
			1323	851	236	231	5		

- Molecule 19 is a protein called Dual specificity phosphatase 21.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	J1	171	Total	C	N	O	S	0	0
			1378	886	230	253	9		
19	J2	171	Total	C	N	O	S	0	0
			1378	886	230	253	9		
19	J3	171	Total	C	N	O	S	0	0
			1378	886	230	253	9		

- Molecule 20 is a protein called Cilia- and flagella-associated protein 161.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	K	270	Total	C	N	O	S	0	0
			2154	1357	382	400	15		
20	L	270	Total	C	N	O	S	0	0
			2154	1357	382	400	15		

- Molecule 21 is a protein called Coiled-coil domain-containing protein 105.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	K1	103	Total	C	N	O	S	0	0
			847	527	168	144	8		
21	K2	421	Total	C	N	O	S	0	0
			3408	2110	663	609	26		
21	K3	428	Total	C	N	O	S	0	0
			3465	2147	674	618	26		
21	K4	394	Total	C	N	O	S	0	0
			3181	1971	614	571	25		
21	K5	50	Total	C	N	O	S	0	0
			400	251	80	65	4		

- Molecule 22 is a protein called Enkurin.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	L1	210	Total	C	N	O	S	0	0
			1728	1102	306	313	7		
22	L2	236	Total	C	N	O	S	0	0
			1929	1231	340	349	9		
22	L3	236	Total	C	N	O	S	0	0
			1929	1231	340	349	9		
22	L4	75	Total	C	N	O	S	0	0
			609	392	112	101	4		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
23	M	115	Total	C	N	O	S	0	0
			944	595	170	175	4		

- Molecule 24 is a protein called Testis-expressed protein 43.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	M1	62	Total	C	N	O	S	0	0
			510	327	89	89	5		
24	M2	62	Total	C	N	O	S	0	0
			510	327	89	89	5		
24	M3	62	Total	C	N	O	S	0	0
			510	327	89	89	5		

- Molecule 25 is a protein called Piercer of microtubule wall 2 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	N	74	Total	C	N	O	S	0	0
			583	379	94	104	6		

- Molecule 26 is a protein called Cilia- and flagella-associated protein 276.

Mol	Chain	Residues	Atoms				AltConf	Trace
26	N1	68	Total	C	N	O	0	0
			535	335	95	105		
26	N2	68	Total	C	N	O	0	0
			535	335	95	105		
26	N3	68	Total	C	N	O	0	0
			535	335	95	105		

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Mol	Chain	Residues	Atoms				AltConf	Trace
26	N4	68	Total 535	C 335	N 95	O 105	0	0

- Molecule 27 is a protein called RIB43A-like with coiled-coils protein 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	O	49	Total 413	C 256	N 83	O 73	S 1	0	0
27	P	317	Total 2693	C 1649	N 537	O 494	S 13	0	0
27	Q	183	Total 1541	C 942	N 305	O 284	S 10	0	0
27	R	226	Total 1922	C 1173	N 381	O 361	S 7	0	0

- Molecule 28 is a protein called Protein Flattop.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	O1	105	Total 825	C 524	N 148	O 152	S 1	0	0
28	O2	105	Total 825	C 524	N 148	O 152	S 1	0	0
28	O3	105	Total 825	C 524	N 148	O 152	S 1	0	0

- Molecule 29 is a protein called Cilia- and flagella-associated protein 52.

Mol	Chain	Residues	Atoms					AltConf	Trace
29	P1	608	Total 4696	C 2970	N 819	O 875	S 32	0	0
29	P2	608	Total 4696	C 2970	N 819	O 875	S 32	0	0
29	P3	608	Total 4696	C 2970	N 819	O 875	S 32	0	0

- Molecule 30 is a protein called EF-hand calcium-binding domain-containing protein 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	Q1	178	Total 1473	C 941	N 254	O 268	S 10	0	0
30	Q2	178	Total 1473	C 941	N 254	O 268	S 10	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
30	Q3	178	Total	C	N	O	S	0	0
			1473	941	254	268	10		

- Molecule 31 is a protein called Cilia and flagella-associated protein 77.

Mol	Chain	Residues	Atoms					AltConf	Trace
31	R1	74	Total	C	N	O	S	0	0
			604	371	119	111	3		
31	R2	74	Total	C	N	O	S	0	0
			604	371	119	111	3		
31	R3	74	Total	C	N	O	S	0	0
			604	371	119	111	3		

- Molecule 32 is a protein called Sperm-associated antigen 8.

Mol	Chain	Residues	Atoms					AltConf	Trace
32	S	71	Total	C	N	O	S	0	0
			575	361	105	108	1		
32	T	109	Total	C	N	O	S	0	0
			904	559	166	174	5		

- Molecule 33 is a protein called Cilia- and flagella-associated protein 45.

Mol	Chain	Residues	Atoms					AltConf	Trace
33	U	363	Total	C	N	O	S	0	0
			3125	1885	623	603	14		
33	V	63	Total	C	N	O	S	0	0
			537	328	107	101	1		
33	W	323	Total	C	N	O	S	0	0
			2733	1660	521	538	14		
33	X	176	Total	C	N	O	S	0	0
			1506	913	307	284	2		

- Molecule 34 is a protein called Cilia- and flagella-associated protein 20.

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

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

- Molecule 35 is a protein called Parkin coregulated gene protein homolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
35	XH	178	Total	C	N	O	S	0	0
			1469	953	247	261	8		
35	XI	178	Total	C	N	O	S	0	0
			1469	953	247	261	8		
35	XJ	178	Total	C	N	O	S	0	0
			1469	953	247	261	8		
35	XK	178	Total	C	N	O	S	0	0
			1469	953	247	261	8		
35	XL	178	Total	C	N	O	S	0	0
			1469	953	247	261	8		
35	XM	178	Total	C	N	O	S	0	0
			1469	953	247	261	8		

- Molecule 36 is a protein called Cilia- and flagella-associated protein 210.

Mol	Chain	Residues	Atoms					AltConf	Trace
36	Y	214	Total	C	N	O	S	0	0
			1821	1124	345	346	6		
36	Z	283	Total	C	N	O	S	0	0
			2401	1487	429	476	9		

- Molecule 37 is a protein called Sperm acrosome-associated protein 9.

Mol	Chain	Residues	Atoms					AltConf	Trace
37	YA	168	Total	C	N	O	S	0	0
			1365	856	244	254	11		
37	YB	168	Total	C	N	O	S	0	0
			1365	856	244	254	11		
37	YC	168	Total	C	N	O	S	0	0
			1365	856	244	254	11		

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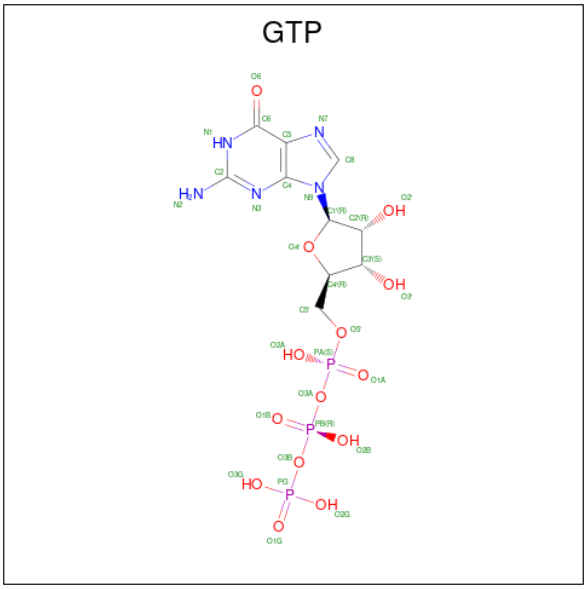
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Mol	Chain	Residues	Atoms					AltConf	Trace
37	YD	168	Total	C	N	O	S	0	0
			1365	856	244	254	11		
37	YE	168	Total	C	N	O	S	0	0
			1365	856	244	254	11		
37	YF	168	Total	C	N	O	S	0	0
			1365	856	244	254	11		
37	YG	168	Total	C	N	O	S	0	0
			1365	856	244	254	11		
37	YH	168	Total	C	N	O	S	0	0
			1365	856	244	254	11		
37	YI	168	Total	C	N	O	S	0	0
			1365	856	244	254	11		
37	YJ	168	Total	C	N	O	S	0	0
			1365	856	244	254	11		
37	YK	168	Total	C	N	O	S	0	0
			1365	856	244	254	11		
37	YL	168	Total	C	N	O	S	0	0
			1365	856	244	254	11		
37	YM	168	Total	C	N	O	S	0	0
			1365	856	244	254	11		
37	YN	168	Total	C	N	O	S	0	0
			1365	856	244	254	11		
37	YO	168	Total	C	N	O	S	0	0
			1365	856	244	254	11		
37	YP	168	Total	C	N	O	S	0	0
			1365	856	244	254	11		
37	YQ	168	Total	C	N	O	S	0	0
			1365	856	244	254	11		
37	YR	168	Total	C	N	O	S	0	0
			1365	856	244	254	11		
37	YS	168	Total	C	N	O	S	0	0
			1365	856	244	254	11		
37	YT	168	Total	C	N	O	S	0	0
			1365	856	244	254	11		
37	YU	168	Total	C	N	O	S	0	0
			1365	856	244	254	11		
37	YV	168	Total	C	N	O	S	0	0
			1365	856	244	254	11		
37	YW	168	Total	C	N	O	S	0	0
			1365	856	244	254	11		

- Molecule 38 is a protein called Cilia- and flagella-associated protein 141.

Mol	Chain	Residues	Atoms					AltConf	Trace
38	a	91	Total	C	N	O	S	0	0
			782	492	146	140	4		

- Molecule 39 is GUANOSINE-5'-TRIPHOSPHATE (CCD ID: GTP) (formula: $C_{10}H_{16}N_5O_{14}P_3$).



Mol	Chain	Residues	Atoms					AltConf
39	AB	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	AC	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	AD	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	AE	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	AF	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	AG	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	AH	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	AI	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	AJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	AK	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	AL	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
39	AM	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	BB	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	BC	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	BD	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	BE	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	BF	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	BG	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	BH	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	BI	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	BJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	BK	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	BL	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	BM	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	CB	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	CC	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	CD	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	CE	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	CF	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	CG	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	CH	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	CI	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
39	CJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	CK	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	CL	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	CM	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	DA	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	DB	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	DC	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	DD	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	DE	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	DF	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	DG	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	DH	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	DI	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	DJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	DK	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	DL	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	EA	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	EB	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	EC	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	ED	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	EE	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
39	EF	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	EG	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	EH	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	EI	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	EJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	EK	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	EL	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	FA	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	FB	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	FC	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	FD	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	FE	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	FF	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	FG	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	FH	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	FI	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	FJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	FK	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	FL	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	GA	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	GB	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
39	GC	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	GD	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	GE	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	GF	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	GG	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	GH	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	GI	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	GJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	GK	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	GL	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	HA	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	HB	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	HC	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	HD	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	HE	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	HF	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	HG	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	HH	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	HI	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	HJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	HK	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
39	HL	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	IA	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	IB	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	IC	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	ID	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	IE	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	IF	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	IG	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	IH	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	II	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	IJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	IK	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	IL	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	IM	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	JA	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	JB	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	JC	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	JD	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	JE	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	JF	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	JG	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
39	JH	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	JI	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	JJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	JK	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	JL	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	KA	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	KB	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	KC	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	KD	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	KE	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	KF	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	KG	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	KH	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	KI	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	KJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	KK	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	KL	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	LA	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	LB	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	LC	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	LD	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
39	LE	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	LF	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	LG	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	LH	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	LI	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	LJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	LK	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	LL	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	MB	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	MC	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	MD	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	MD	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	MF	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	MG	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	MH	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	MI	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	MJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	MK	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	ML	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	MM	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	NA	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
39	NB	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	NC	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	ND	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	NE	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	NF	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	NG	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	NH	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	NI	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	NJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	NK	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	NL	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	OA	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	OB	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	OC	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	OD	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	OE	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	OF	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	OG	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	OH	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	OI	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	OJ	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
39	OK	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	OL	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	PA	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	PB	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	PC	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	PD	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	PE	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	PF	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	PG	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	PH	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	PI	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	PJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	PK	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	PL	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	PM	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	QB	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	QC	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	QD	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	QD	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	QF	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	QG	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
39	QH	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	QI	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	QJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	QK	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	QL	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	QL	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	RB	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	RC	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	RD	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	RE	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	RF	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	RG	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	RH	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	RI	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	RJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	RK	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	RL	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	RM	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	SB	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	SC	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	SD	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
39	SE	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	SF	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	SG	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	SH	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	SI	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	SJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	SK	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	SL	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	SM	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	TB	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	TC	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	TD	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	TE	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	TF	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	TG	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	TH	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	TI	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	TJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	TK	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	TL	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	TM	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
39	TN	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	UA	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	UB	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	UC	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	UD	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	UE	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	UF	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	UG	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	UH	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	UI	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	UJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	UK	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	UL	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	VA	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	VB	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	VC	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	VD	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	VE	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	VF	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	VG	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	VH	1	Total	C	N	O	P	0
			32	10	5	14	3	

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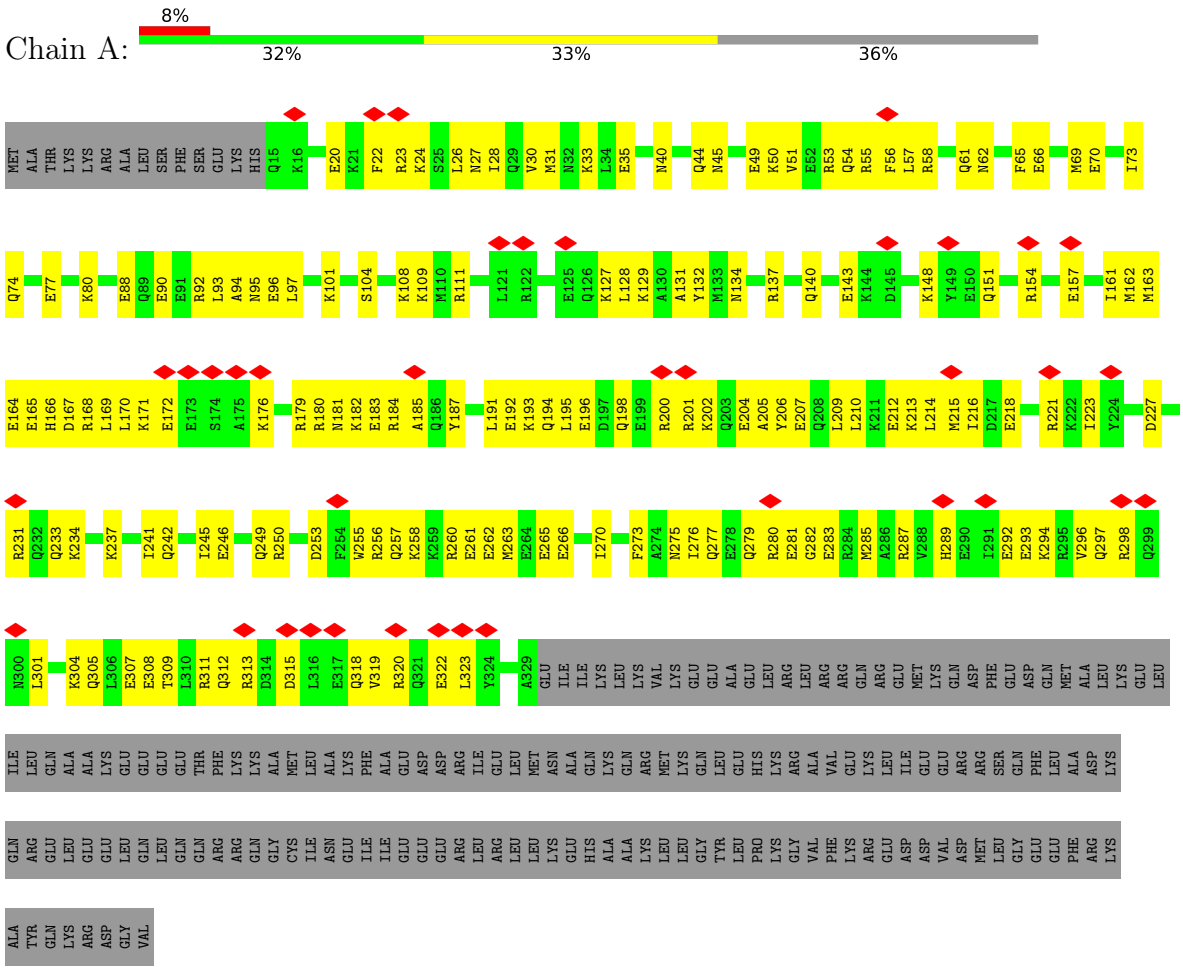
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39	VK	1	Total	C	N	O	P	0
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39	WA	1	Total	C	N	O	P	0
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39	WC	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	WD	1	Total	C	N	O	P	0
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39	WE	1	Total	C	N	O	P	0
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39	WF	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	WG	1	Total	C	N	O	P	0
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39	WH	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	WI	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	WJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	WK	1	Total	C	N	O	P	0
			32	10	5	14	3	
39	WL	1	Total	C	N	O	P	0
			32	10	5	14	3	

3 Residue-property plots (i)

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

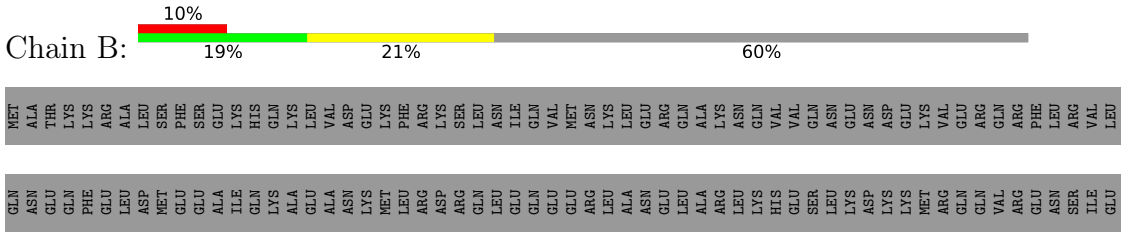
• Molecule 1: Meiosis-specific nuclear structural protein 1

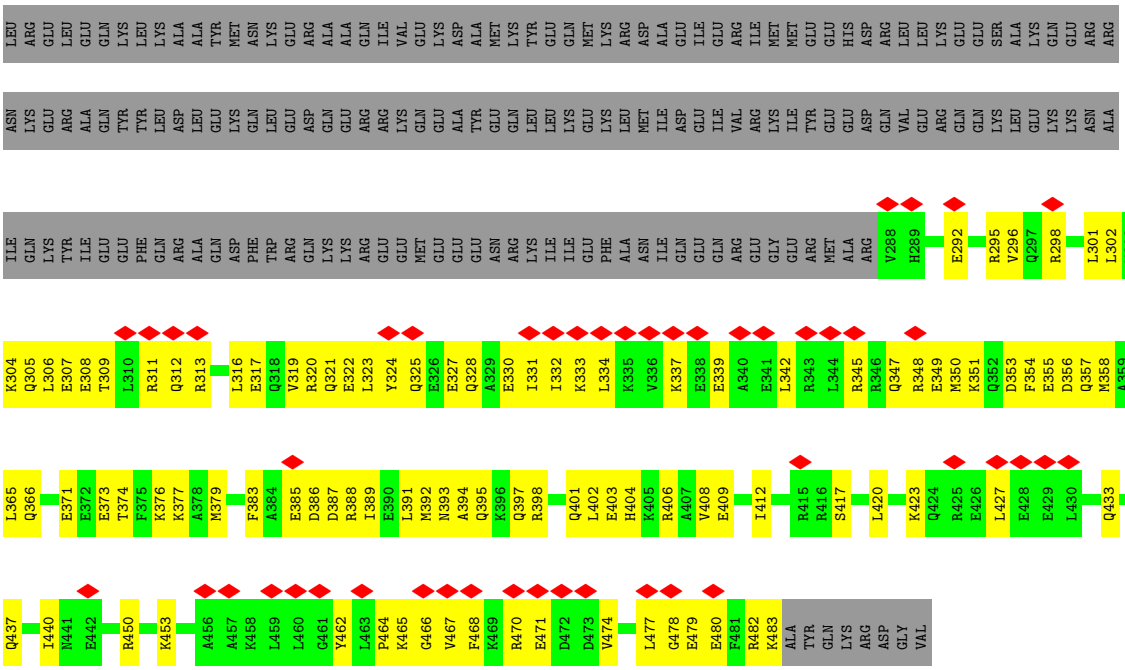
Chain A:



• Molecule 1: Meiosis-specific nuclear structural protein 1

Chain B:

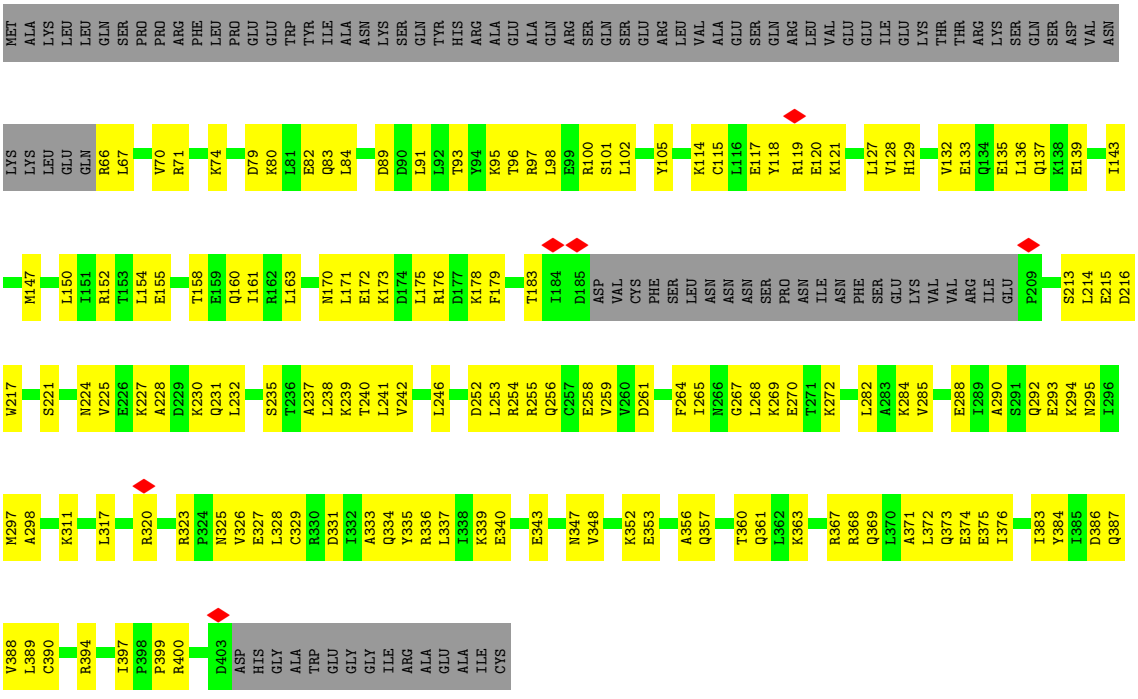




• Molecule 2: Tektin-1

Chain A1:

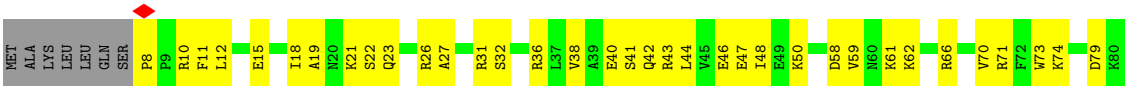


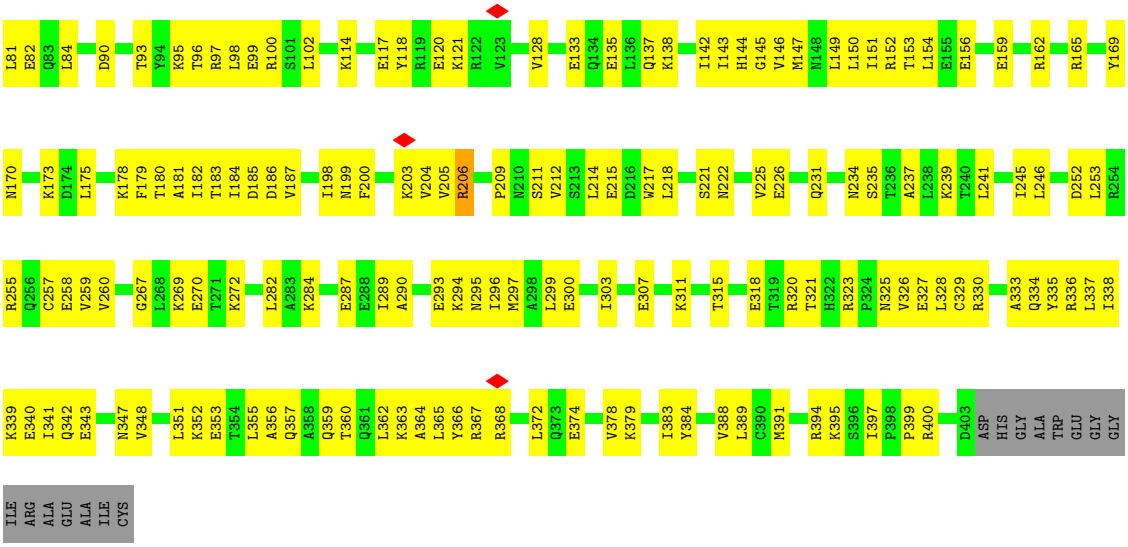


• Molecule 2: Tektin-1

Chain A2:



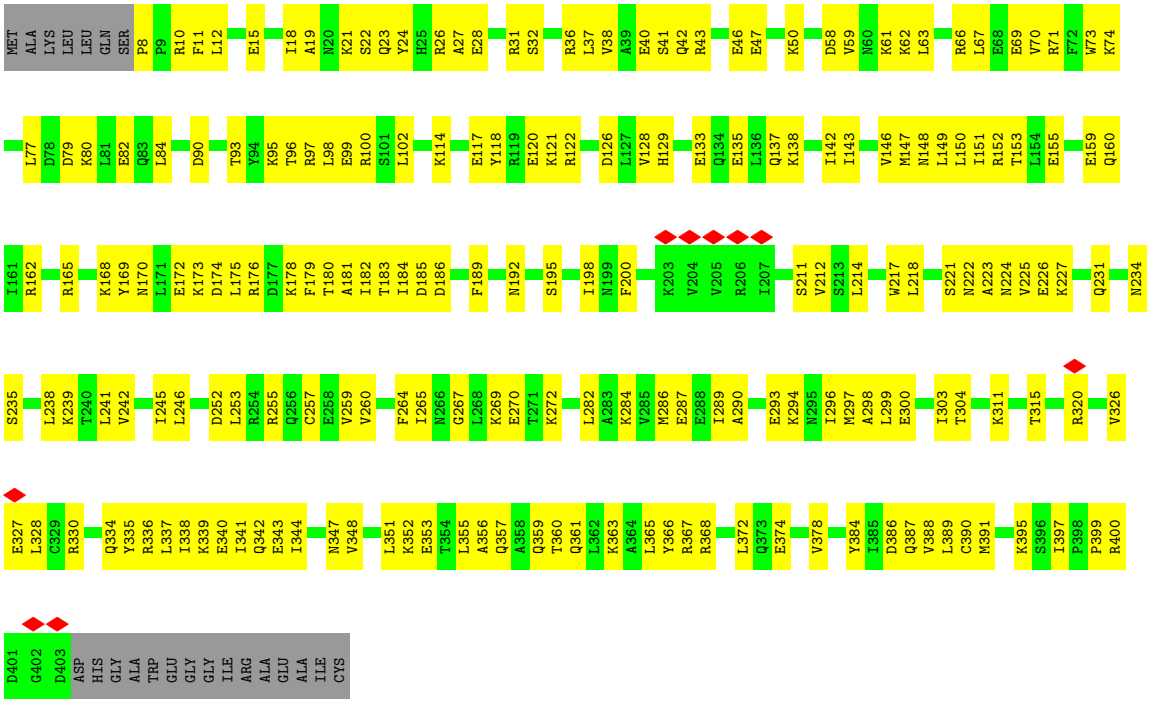




• Molecule 2: Tektin-1

Chain A3:

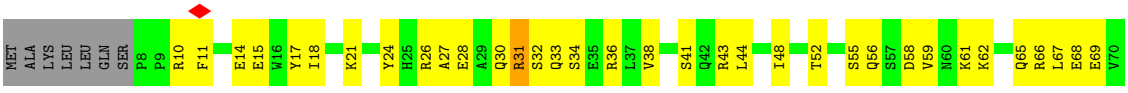


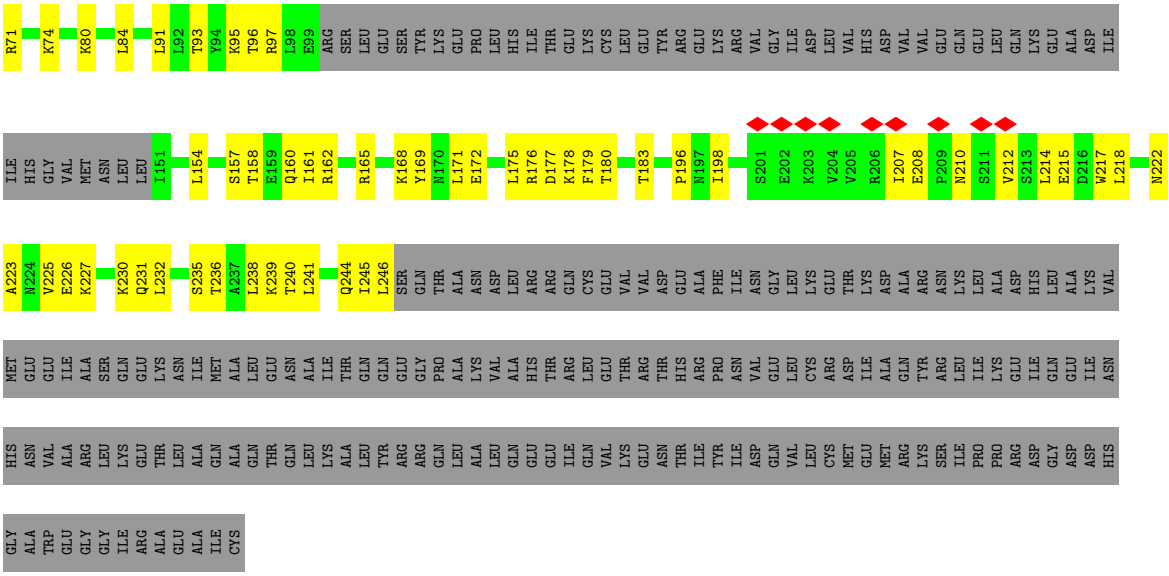


• Molecule 2: Tektin-1

Chain A4:



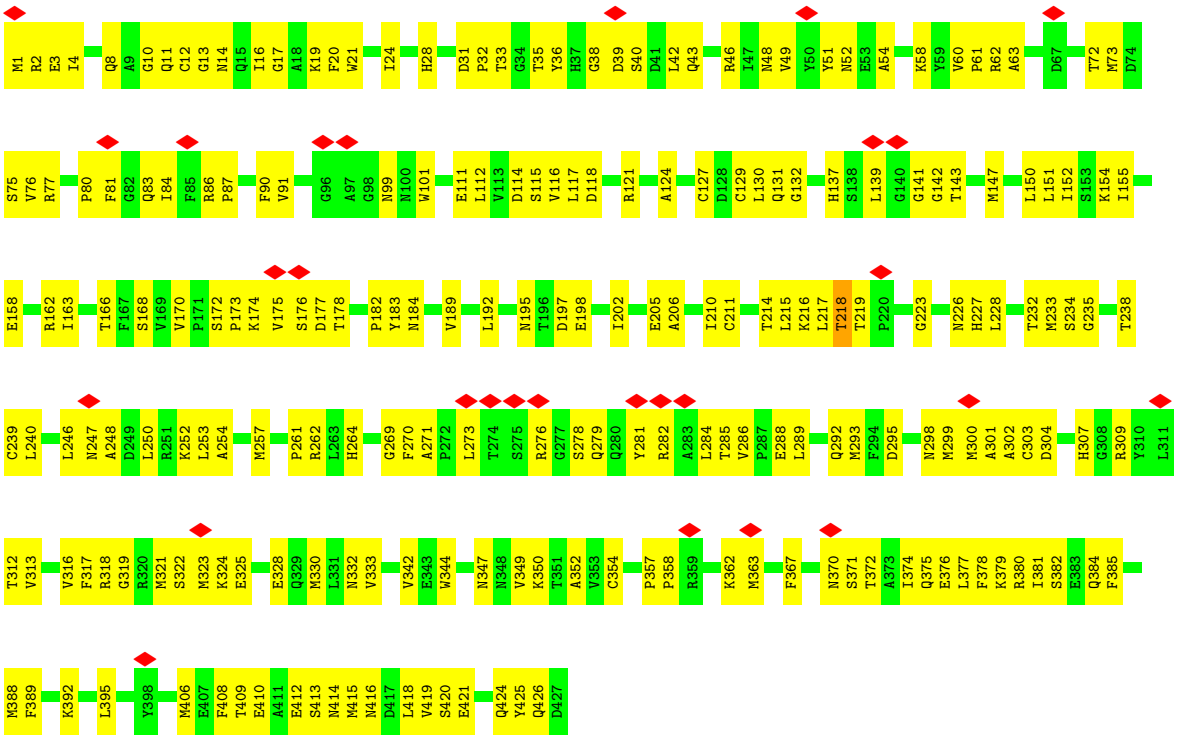




• Molecule 3: Tubulin beta-4B chain

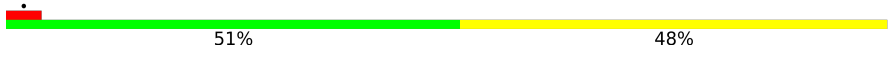
Chain AB:

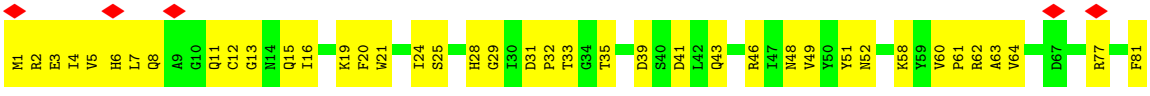


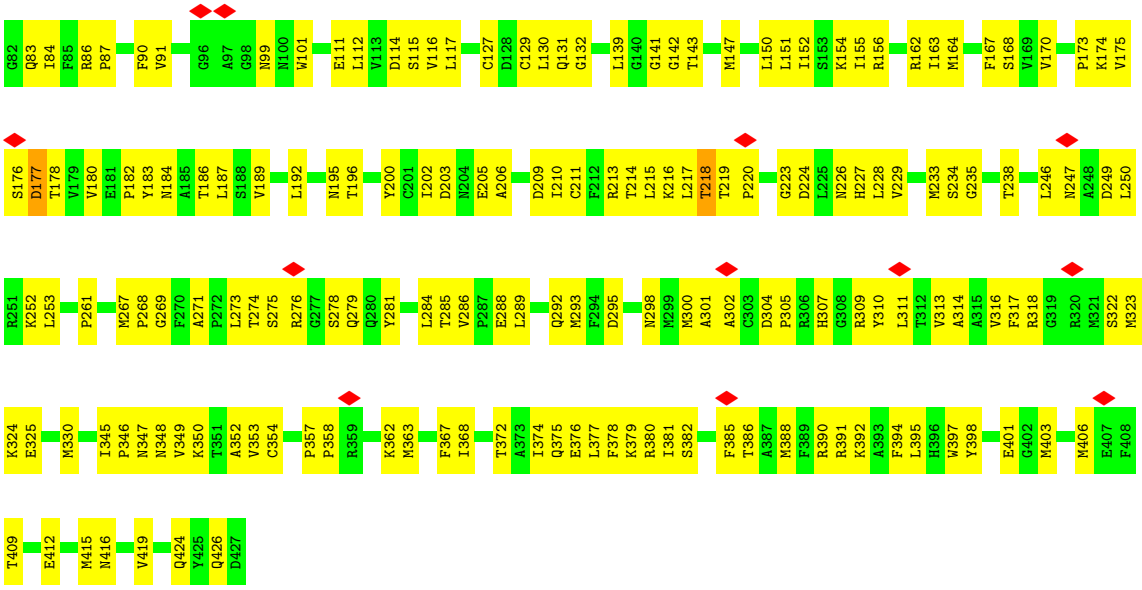


• Molecule 3: Tubulin beta-4B chain

Chain AD:



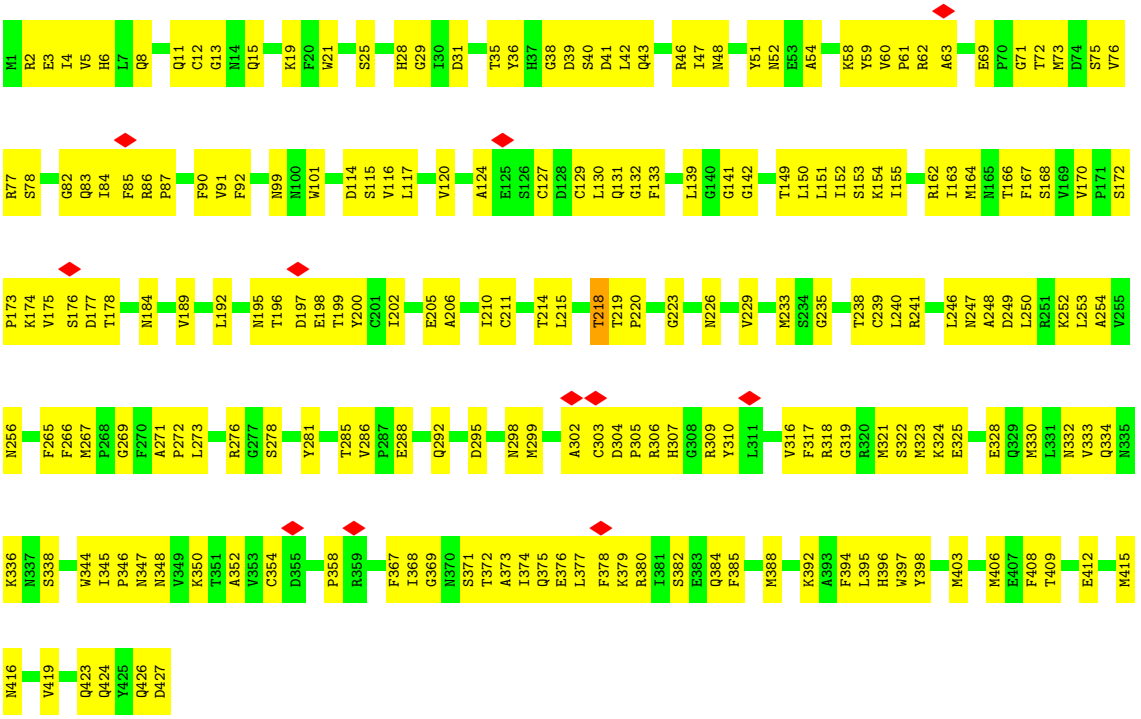




• Molecule 3: Tubulin beta-4B chain

Chain AF:

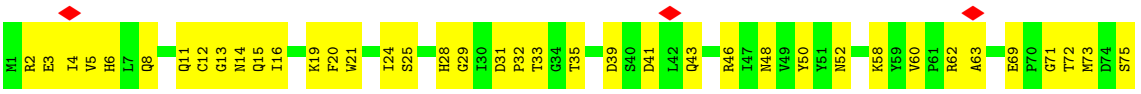


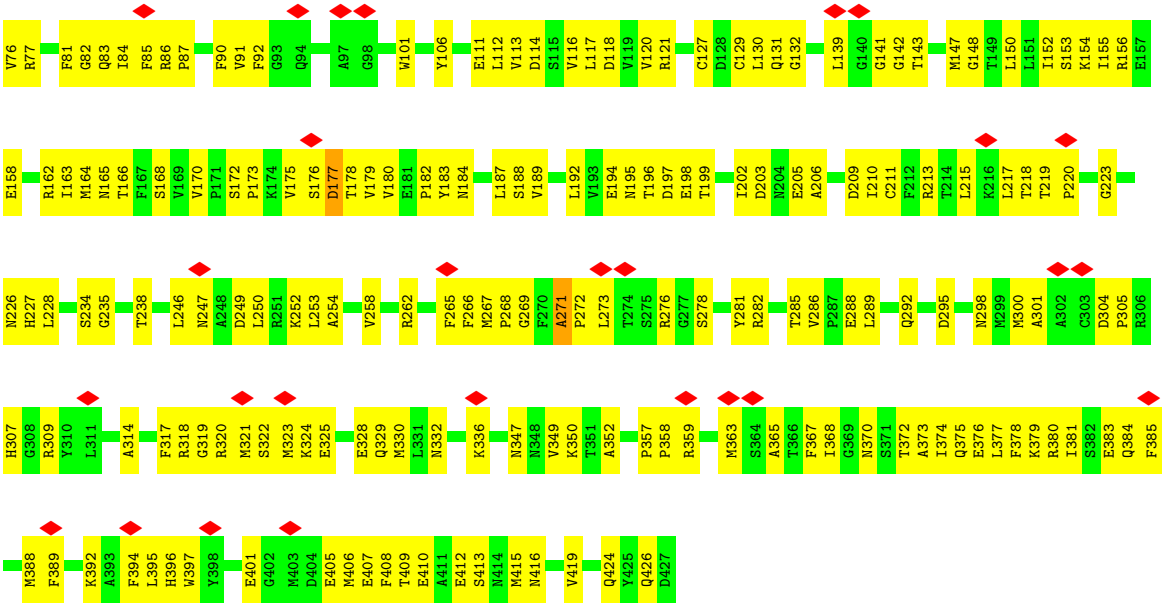


• Molecule 3: Tubulin beta-4B chain

Chain AH:



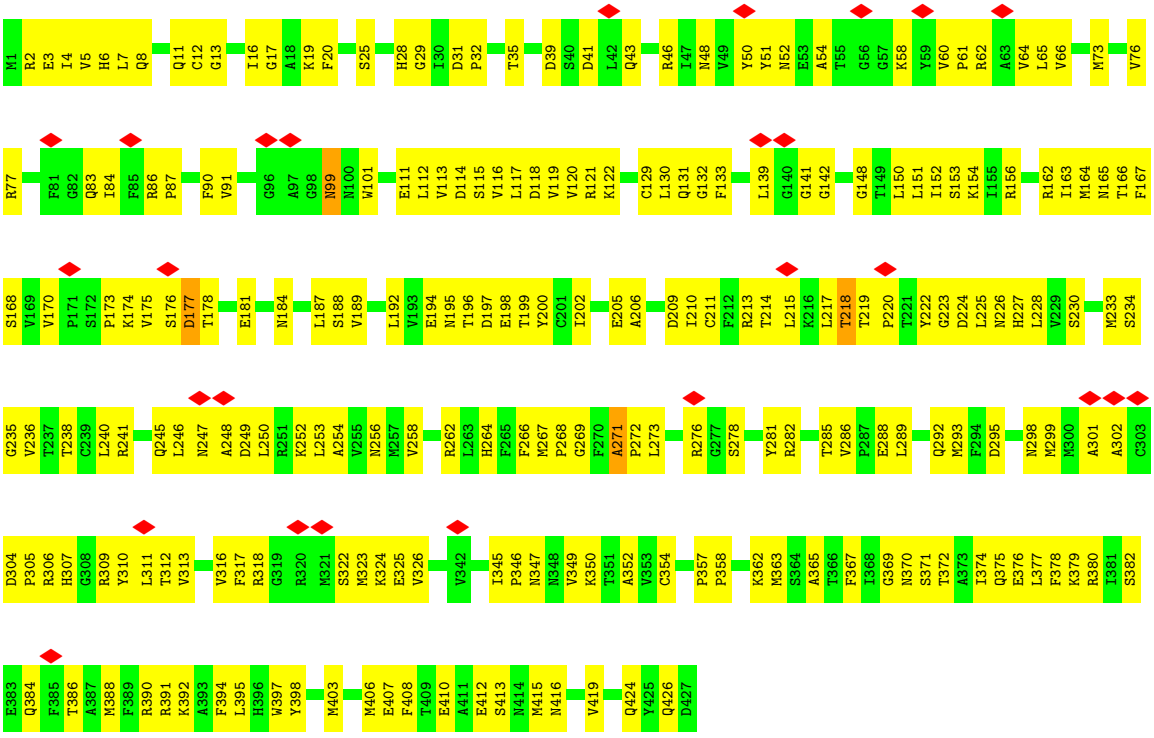




• Molecule 3: Tubulin beta-4B chain

Chain AJ:

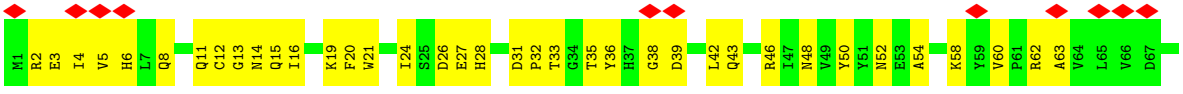


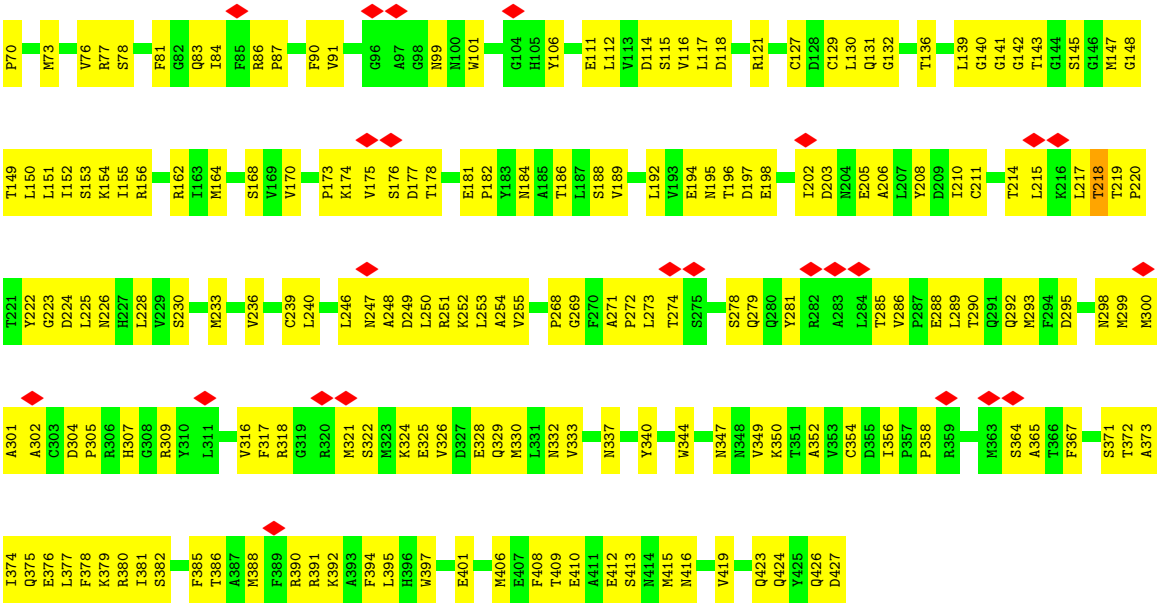


• Molecule 3: Tubulin beta-4B chain

Chain AL:



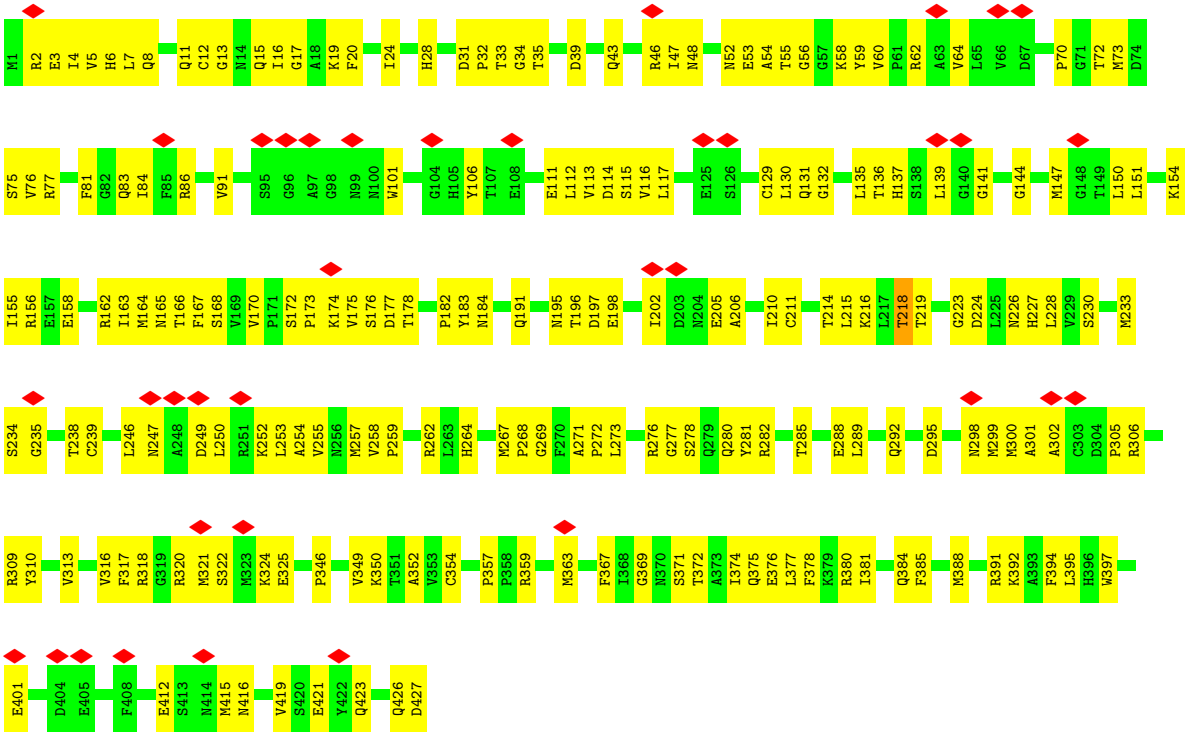




• Molecule 3: Tubulin beta-4B chain

Chain BB:

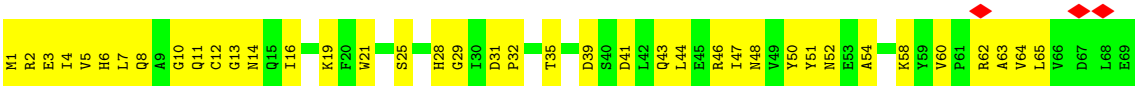


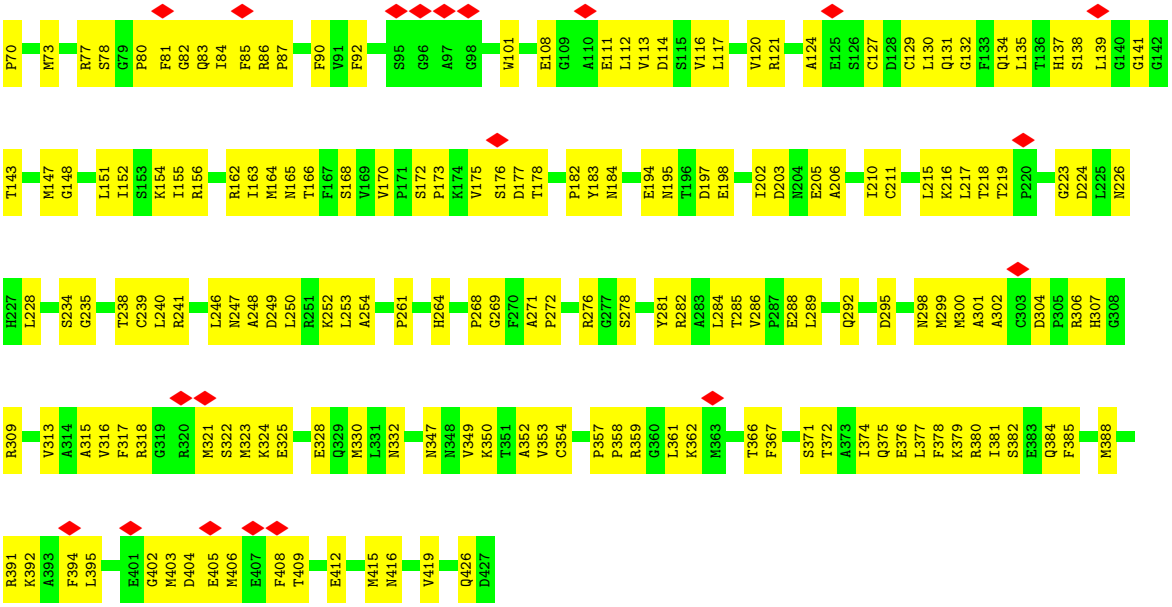


• Molecule 3: Tubulin beta-4B chain

Chain BD:



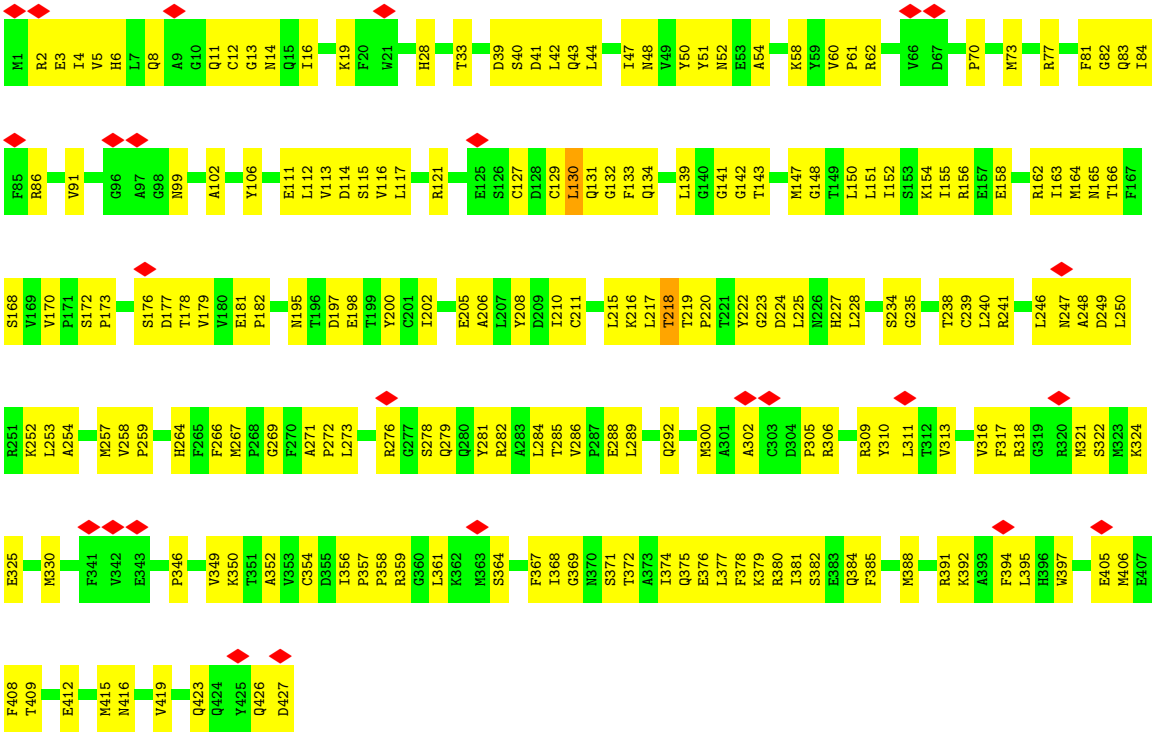




• Molecule 3: Tubulin beta-4B chain

Chain BF:

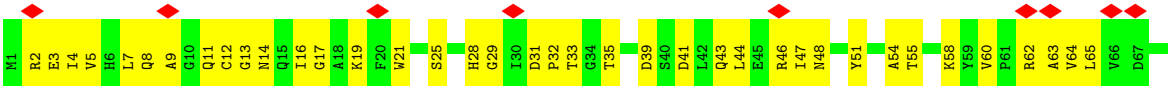


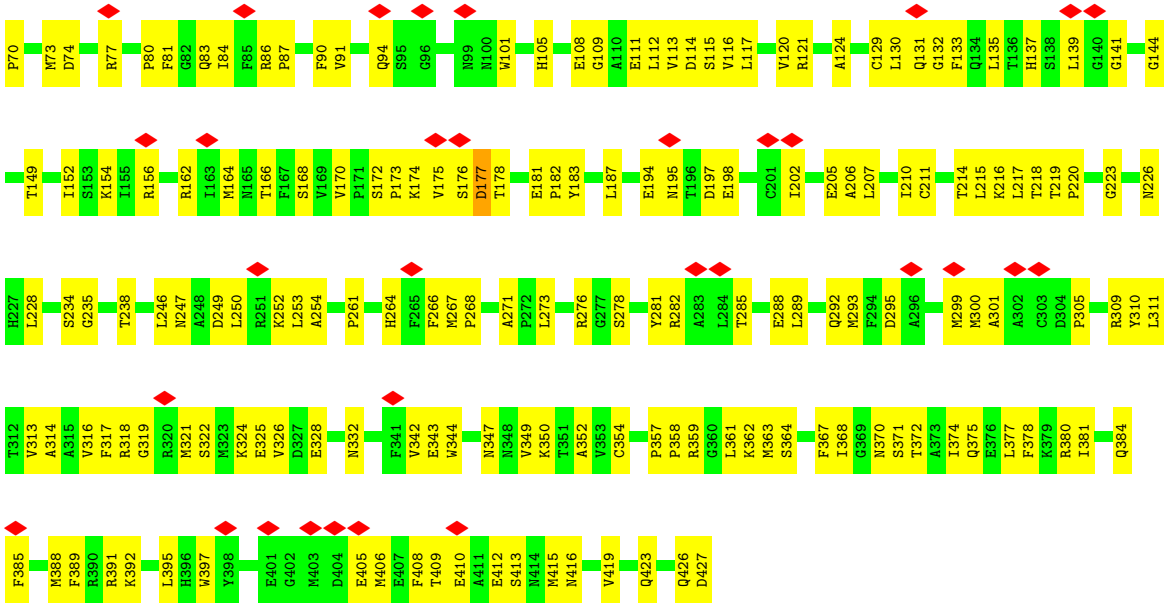


• Molecule 3: Tubulin beta-4B chain

Chain BH:



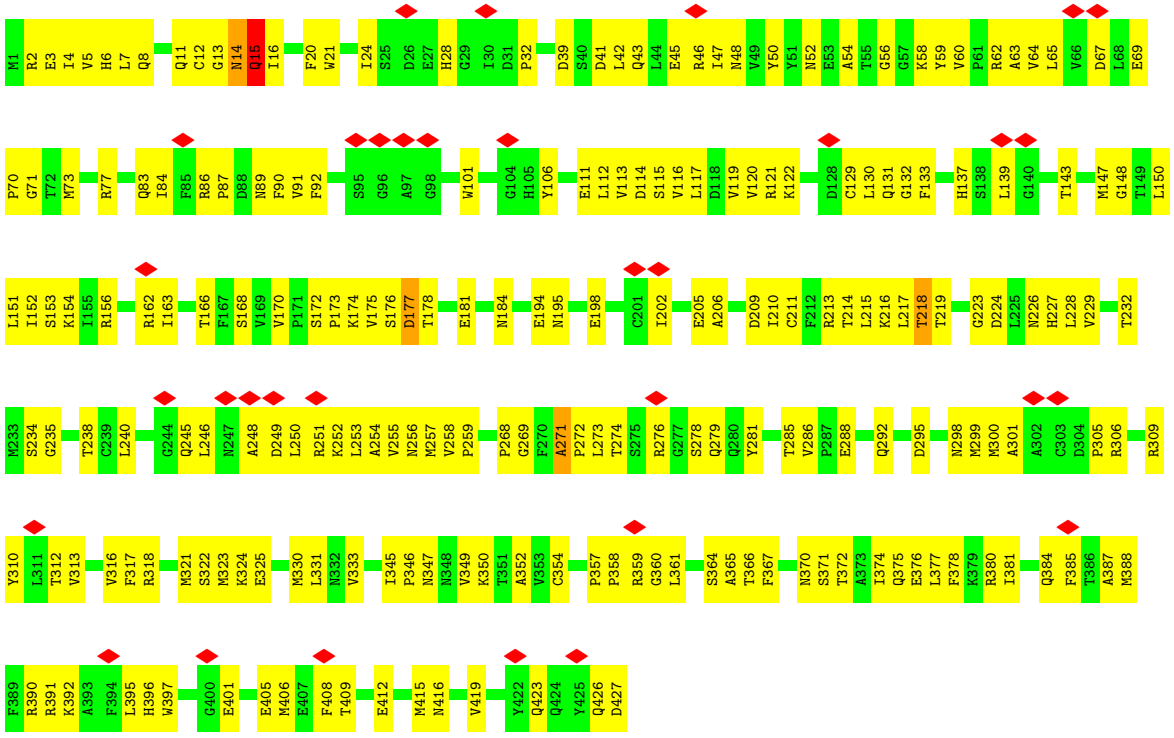




• Molecule 3: Tubulin beta-4B chain

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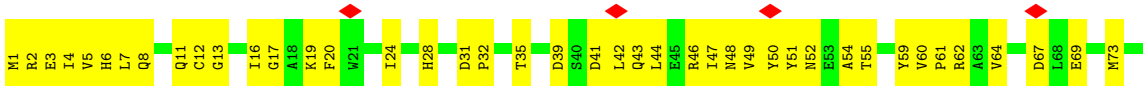


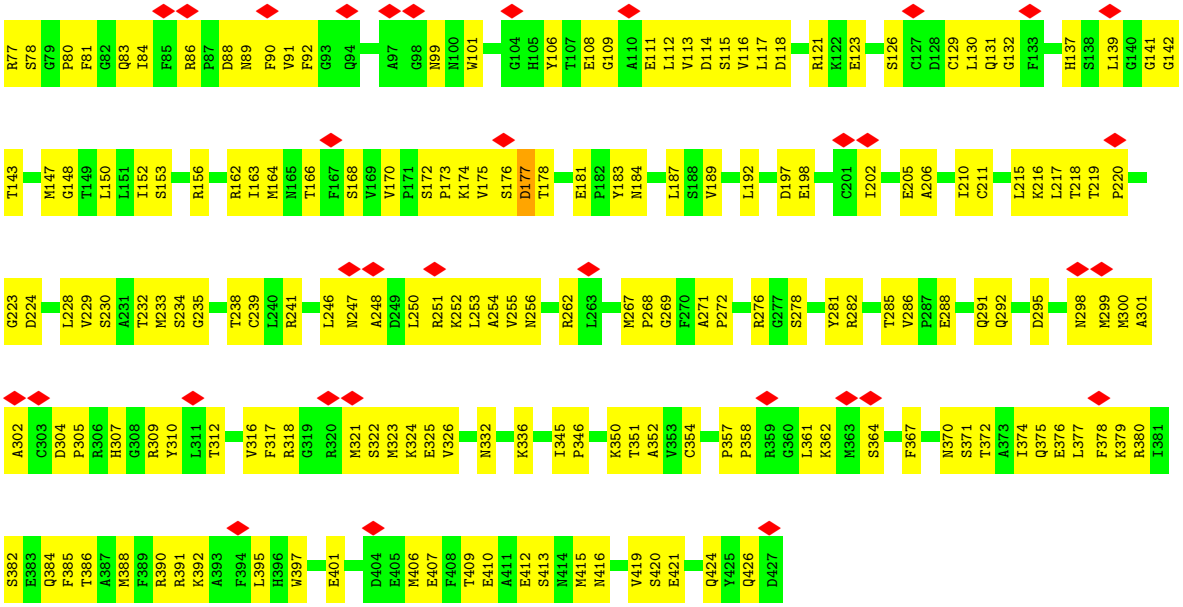


• Molecule 3: Tubulin beta-4B chain

Chain BL:



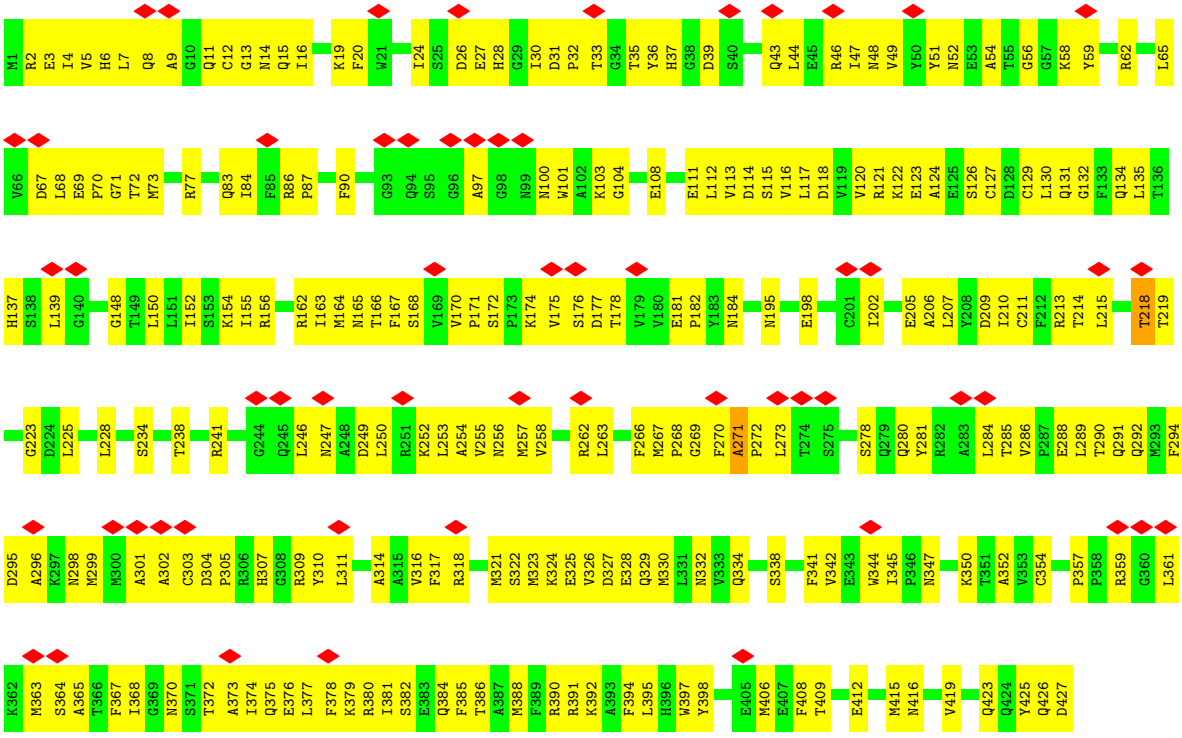




• Molecule 3: Tubulin beta-4B chain

Chain CB:

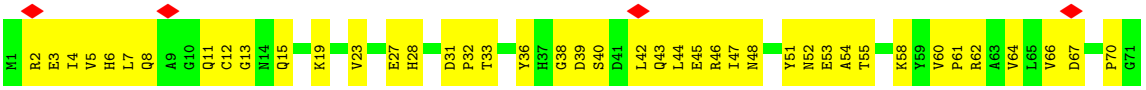


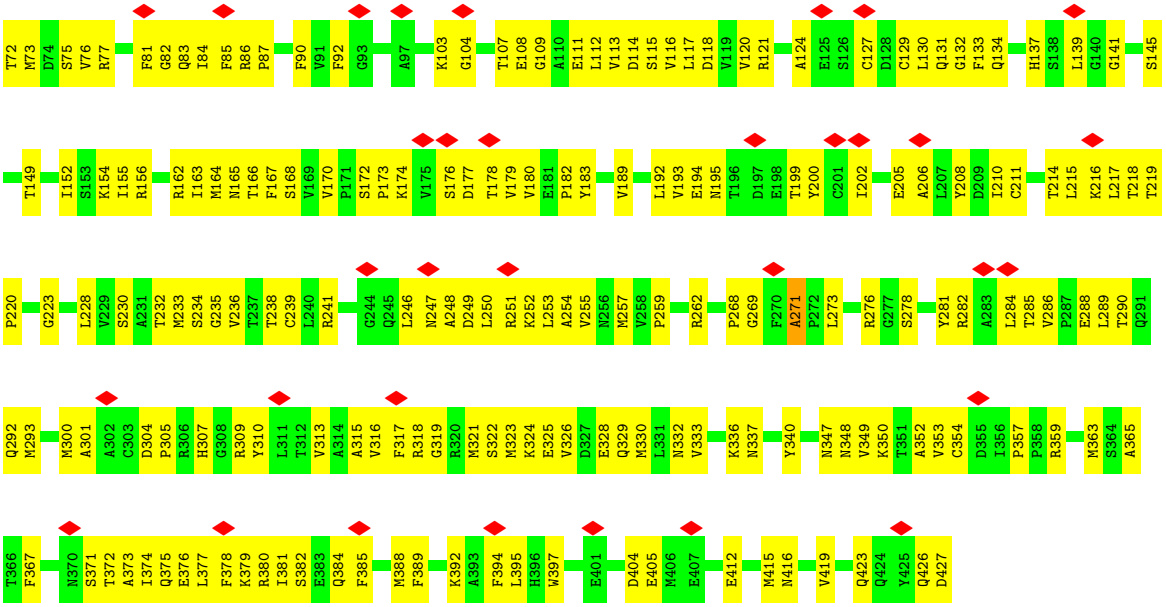


• Molecule 3: Tubulin beta-4B chain

Chain CD:



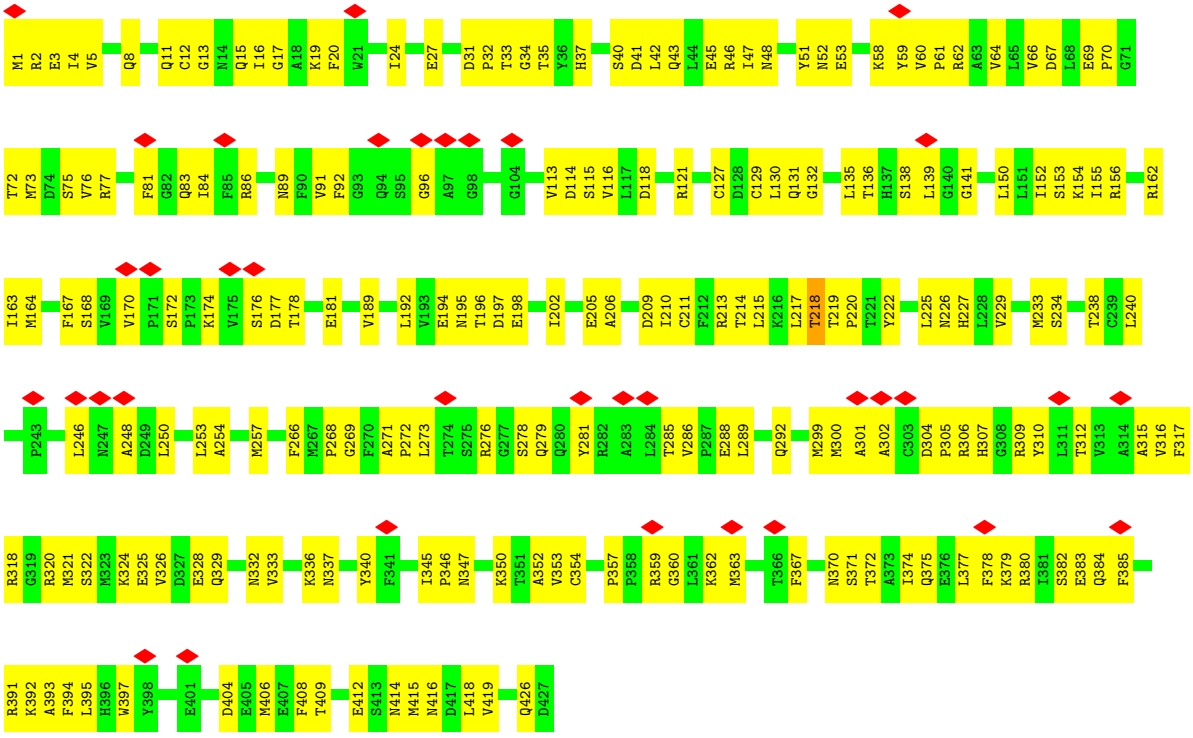




• Molecule 3: Tubulin beta-4B chain

Chain CF:

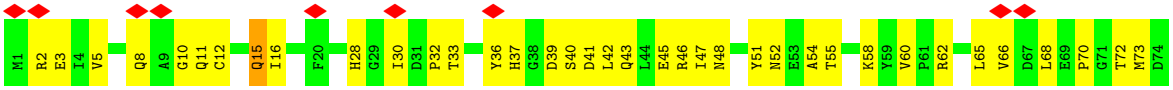


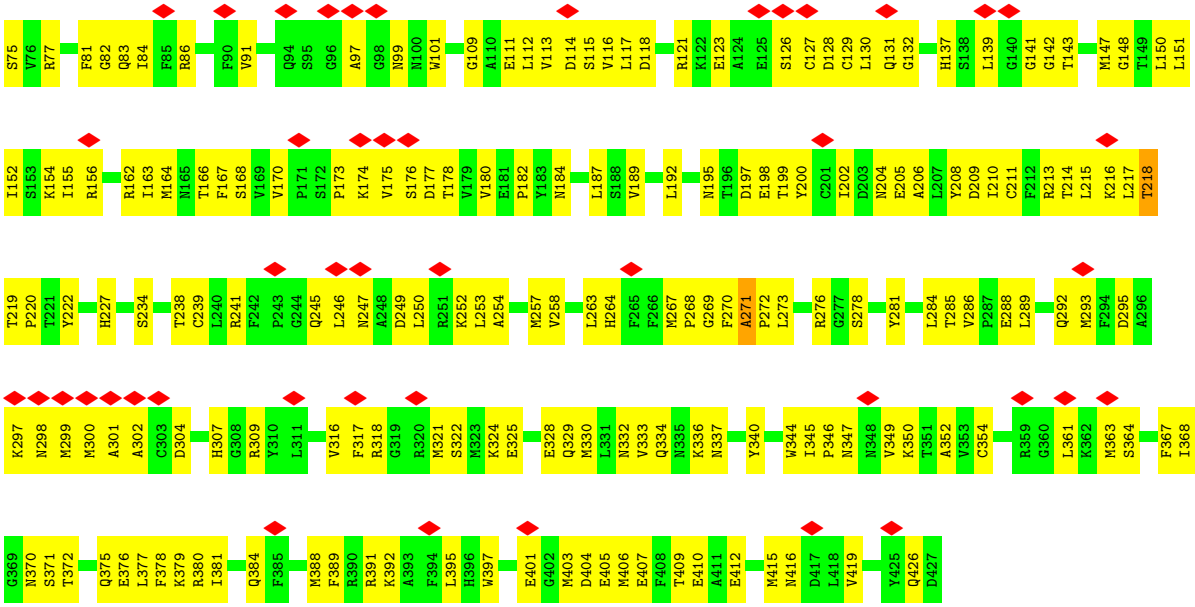


• Molecule 3: Tubulin beta-4B chain

Chain CH:



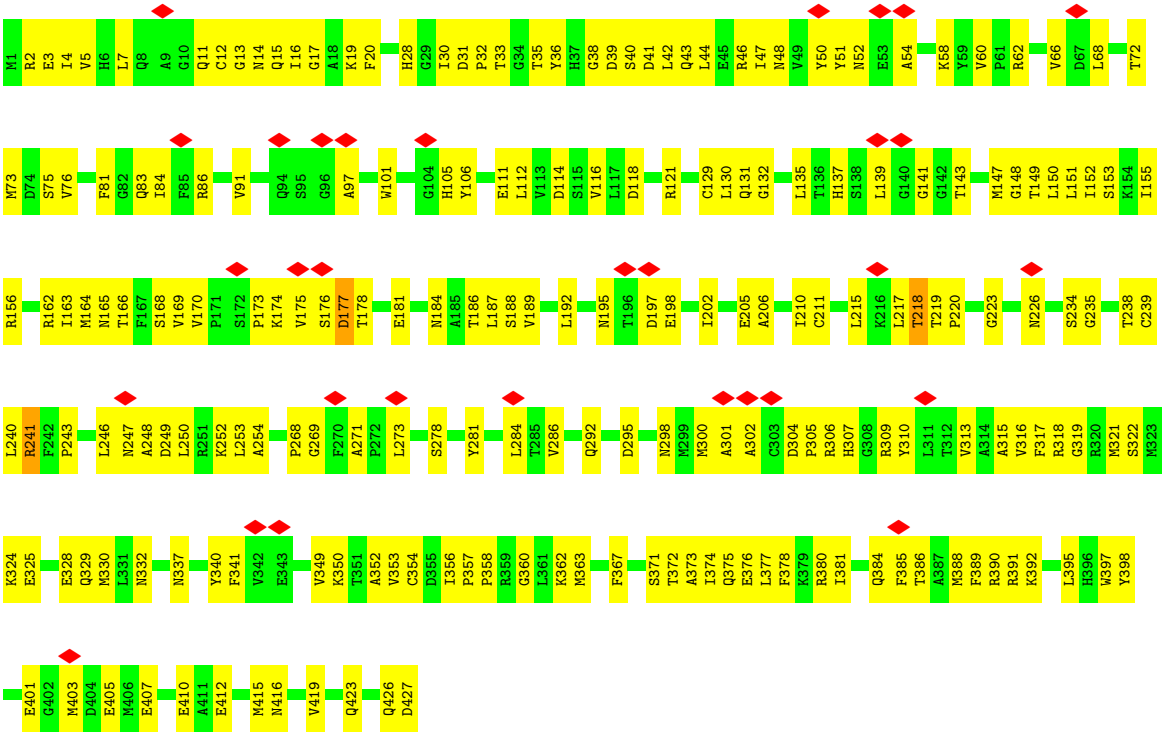




• Molecule 3: Tubulin beta-4B chain

Chain CJ:

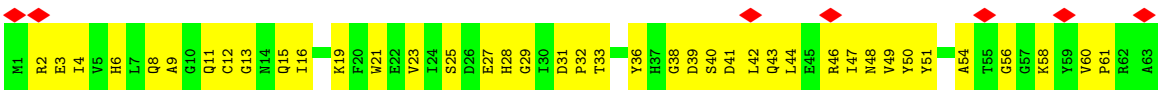


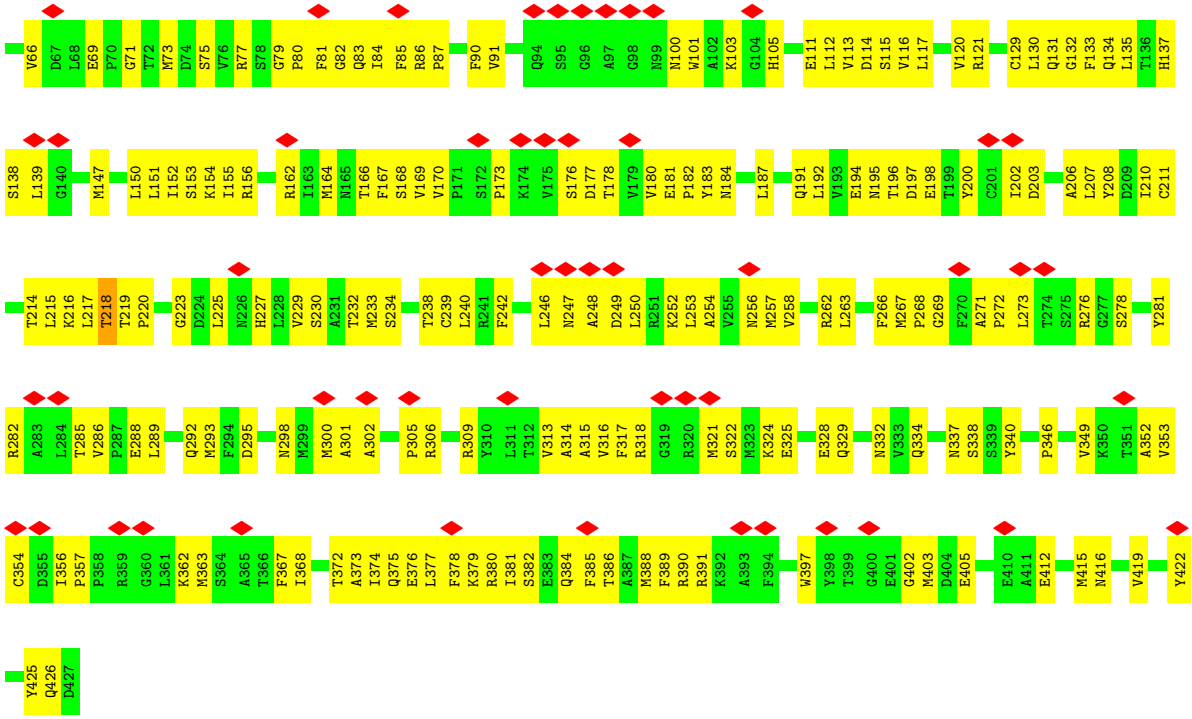


• Molecule 3: Tubulin beta-4B chain

Chain CL:



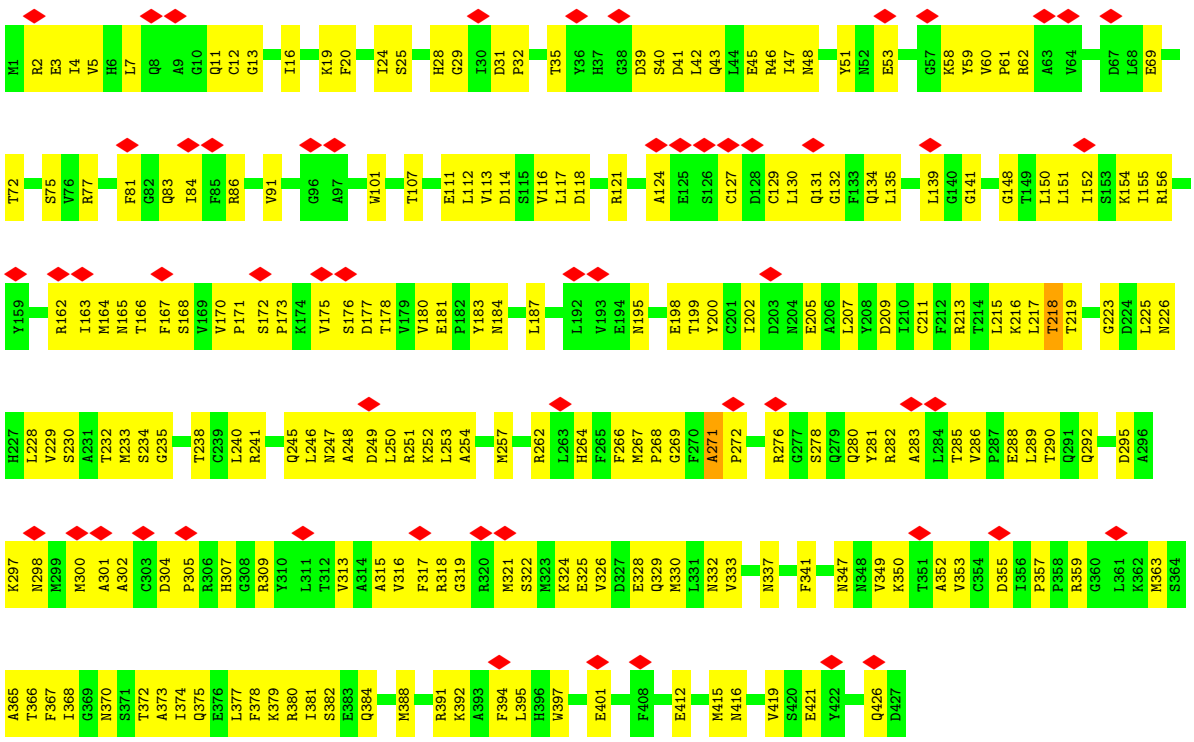




• Molecule 3: Tubulin beta-4B chain

Chain DB:

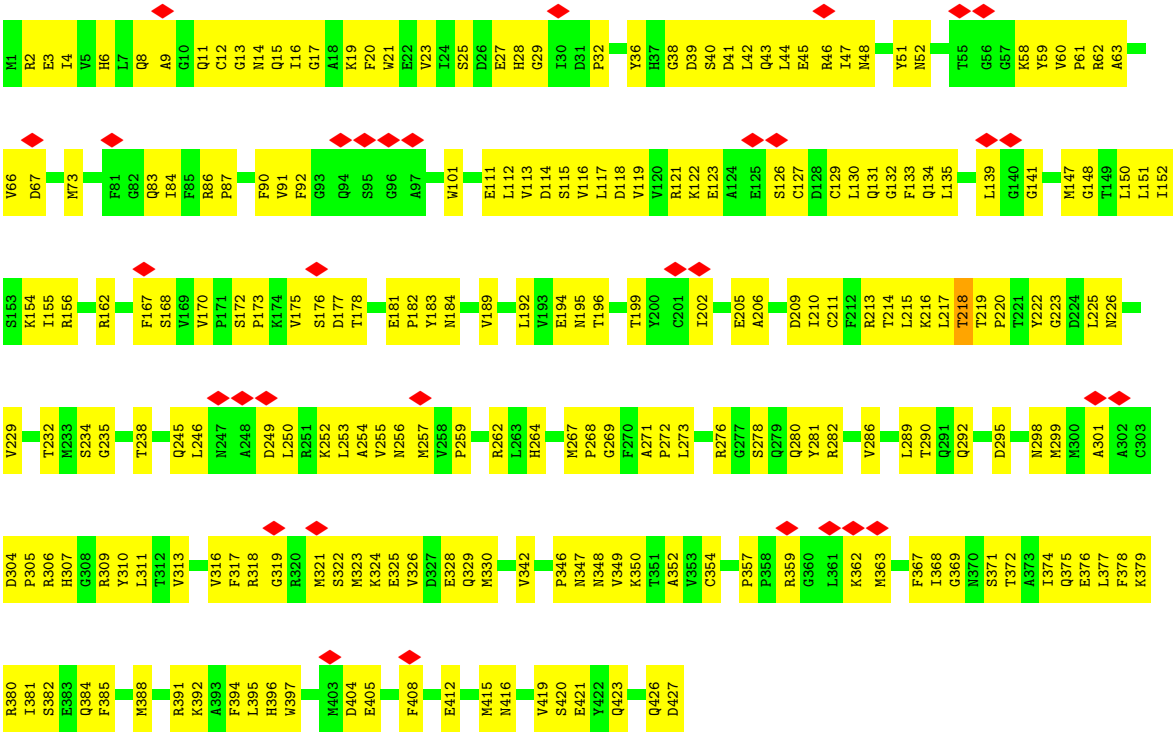




• Molecule 3: Tubulin beta-4B chain

Chain DD:

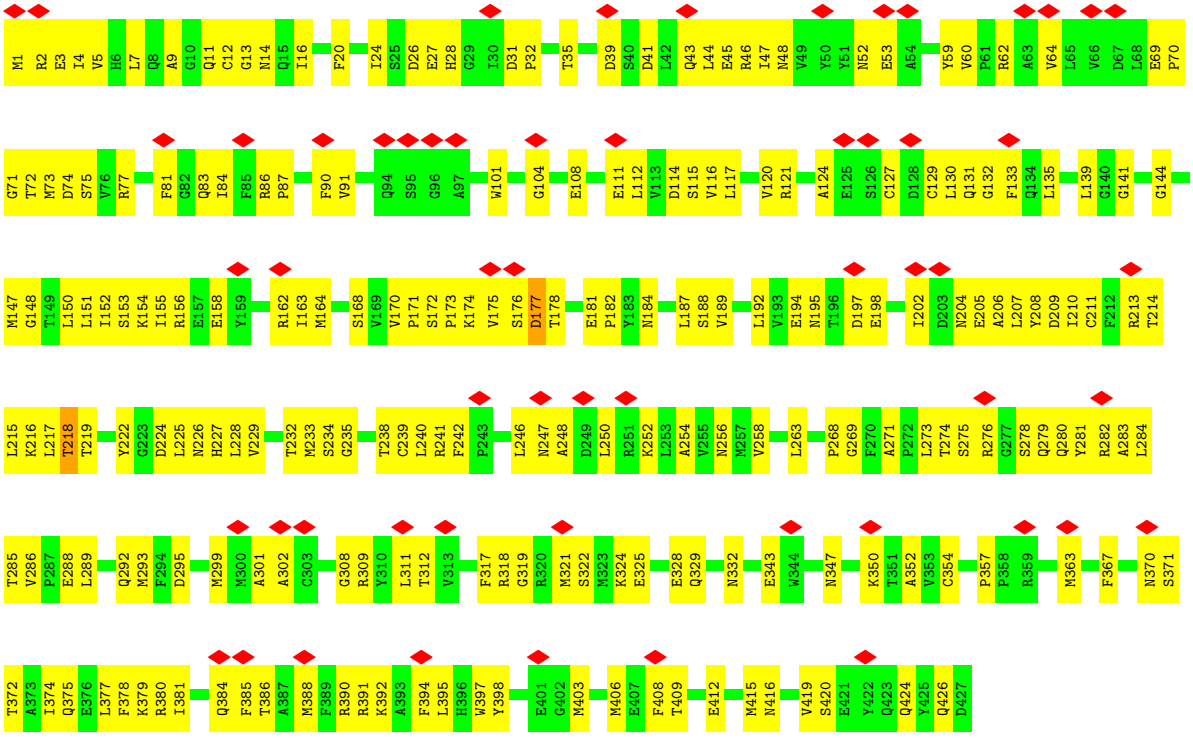




• Molecule 3: Tubulin beta-4B chain

Chain DF:

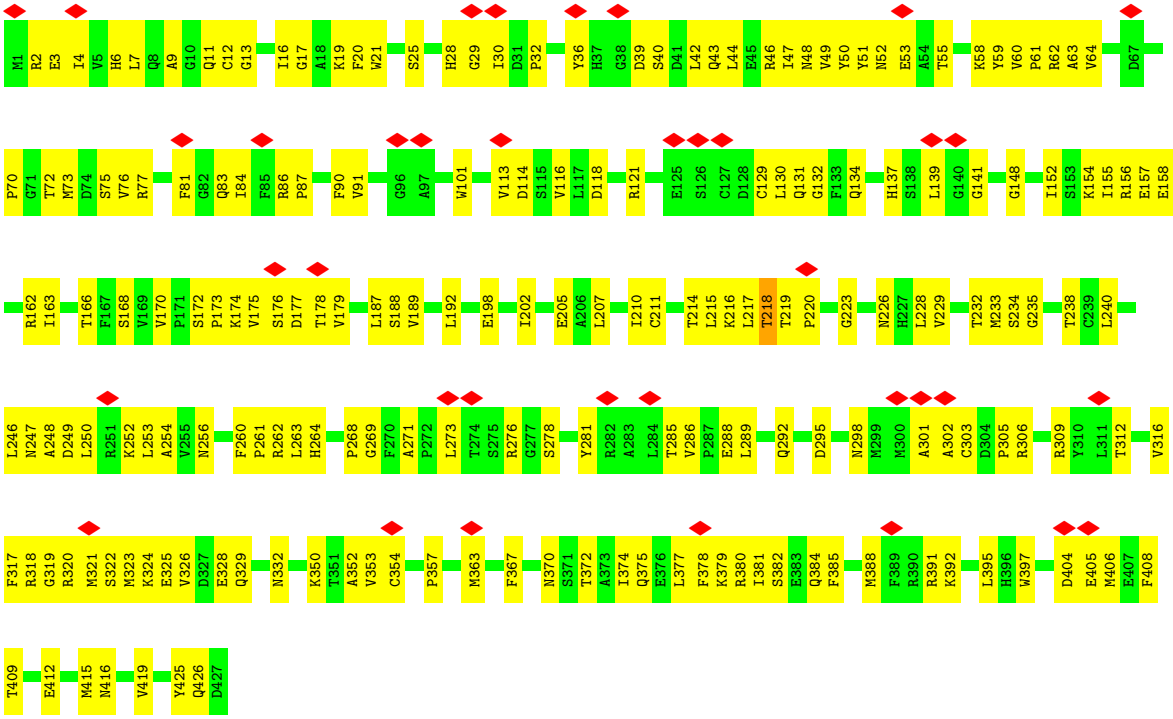




• Molecule 3: Tubulin beta-4B chain

Chain DH:

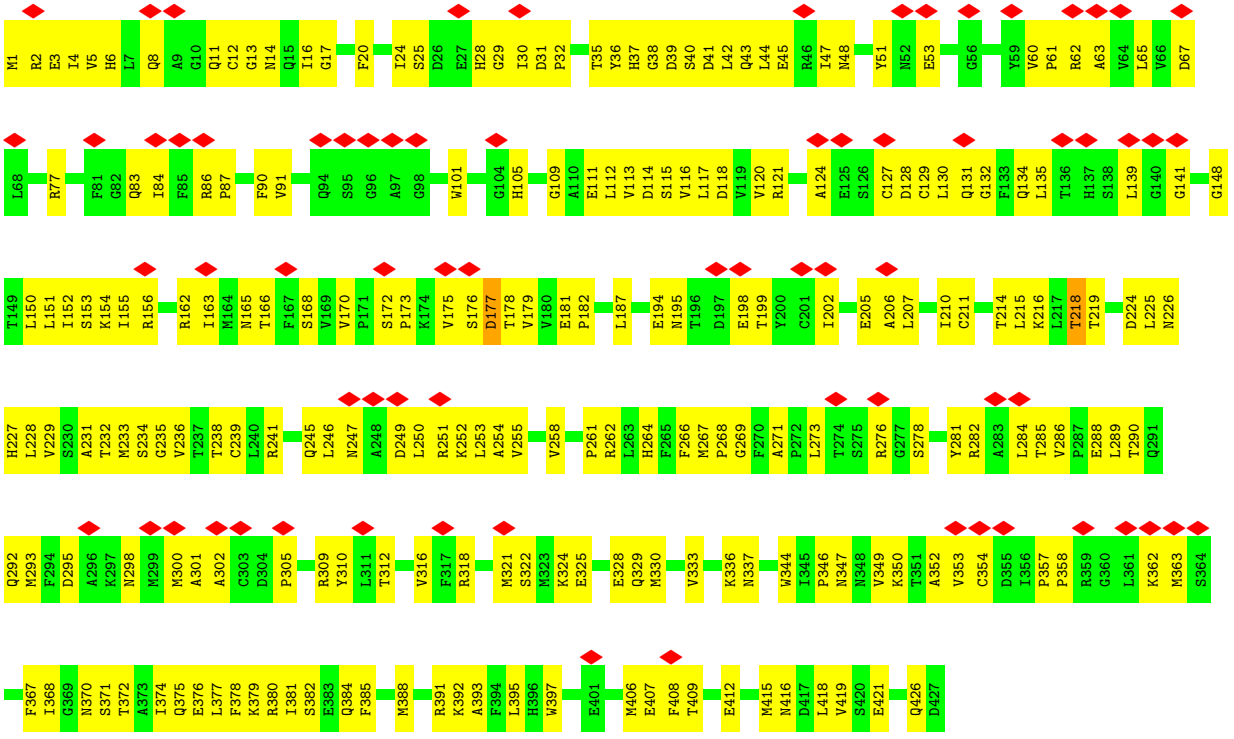




• Molecule 3: Tubulin beta-4B chain

Chain DJ:

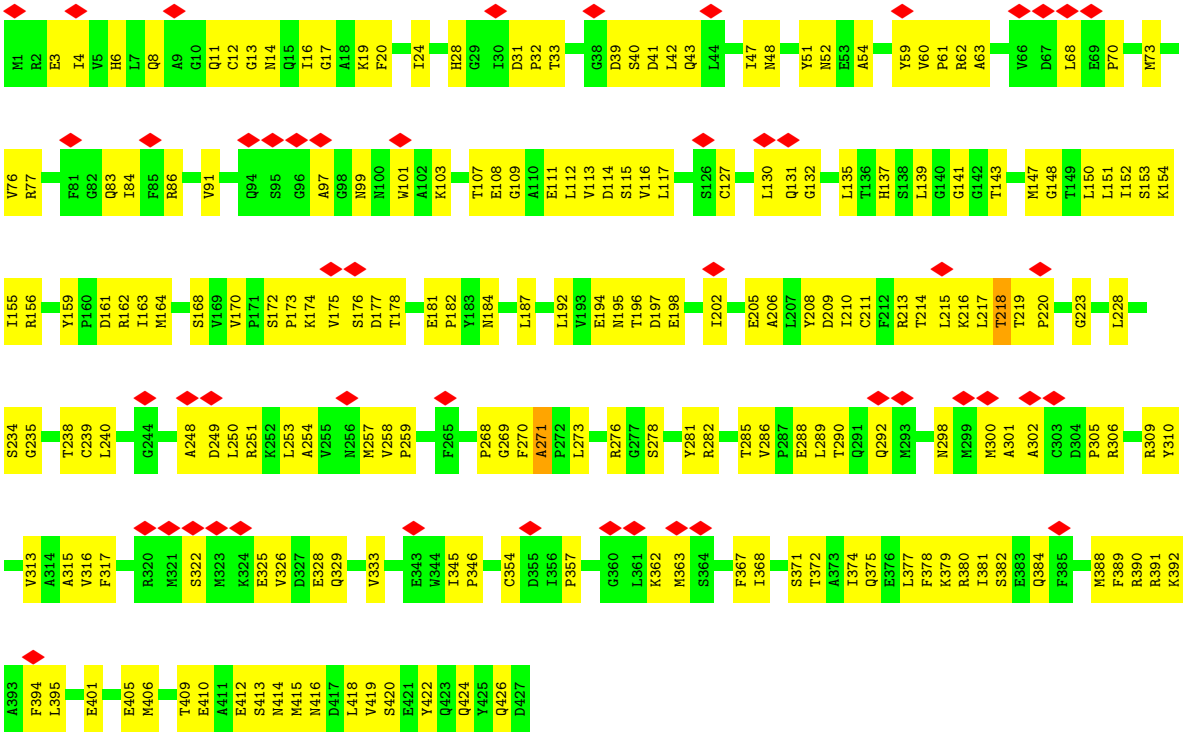




• Molecule 3: Tubulin beta-4B chain

Chain DL:

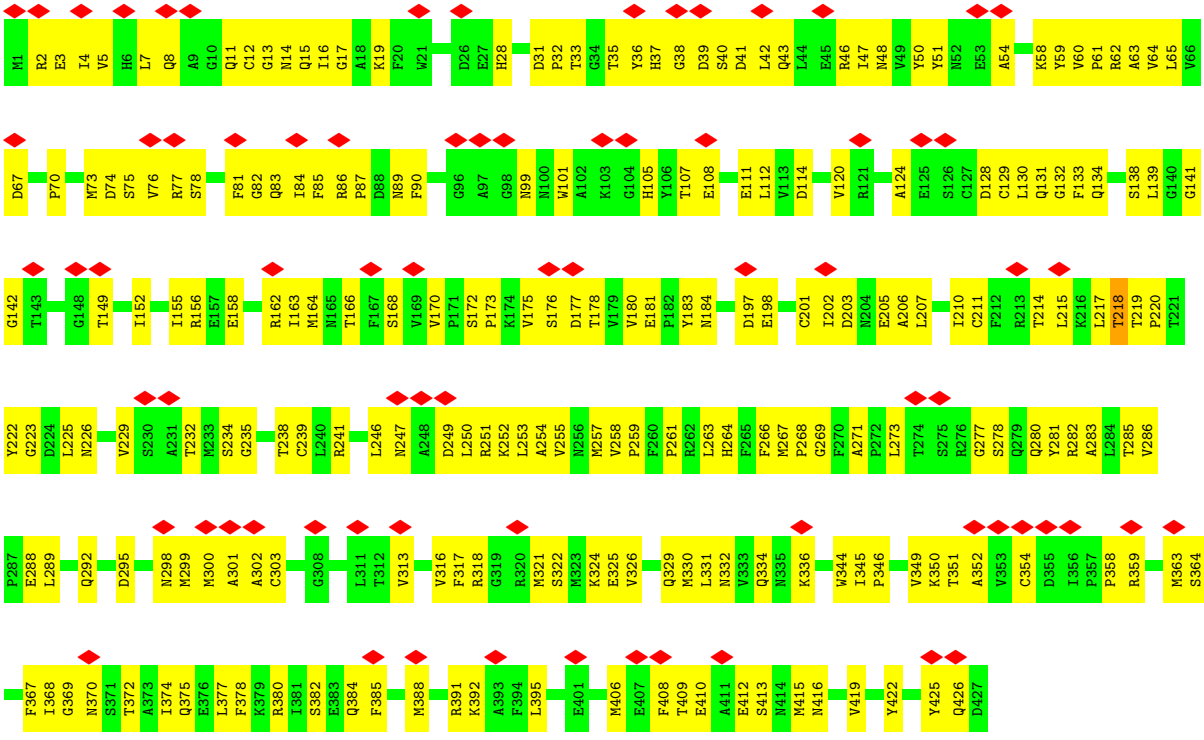




• Molecule 3: Tubulin beta-4B chain

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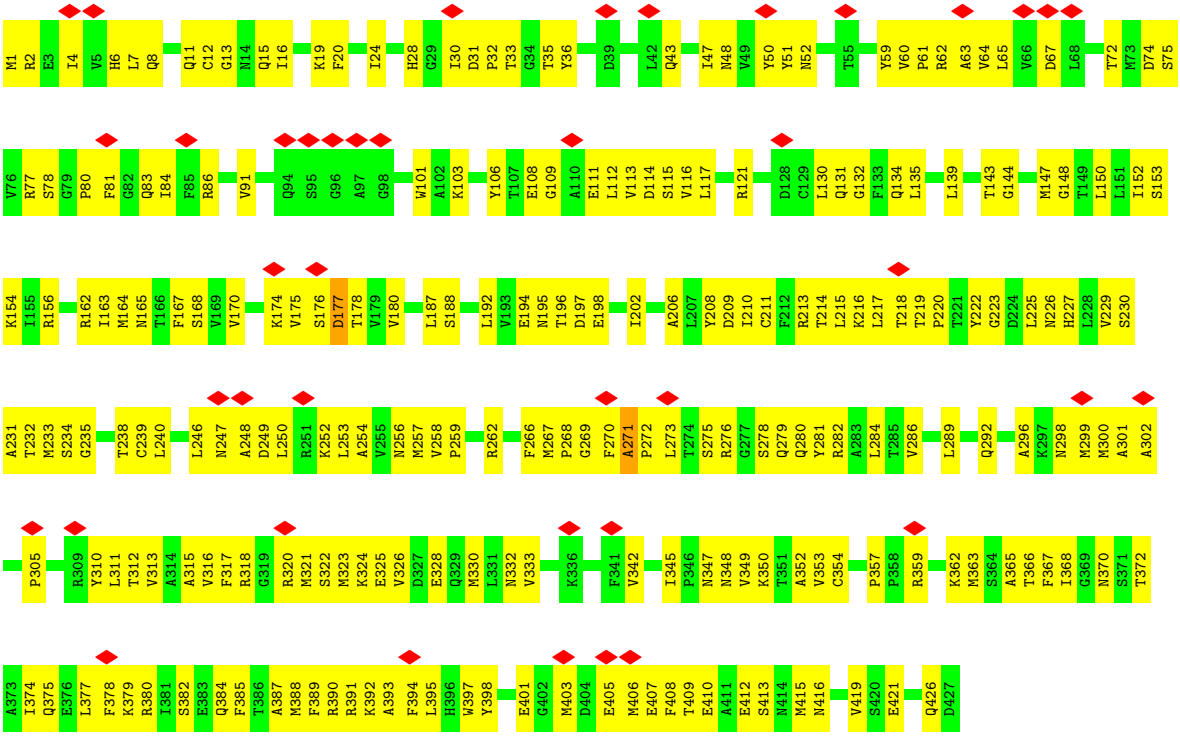




• Molecule 3: Tubulin beta-4B chain

Chain ED:

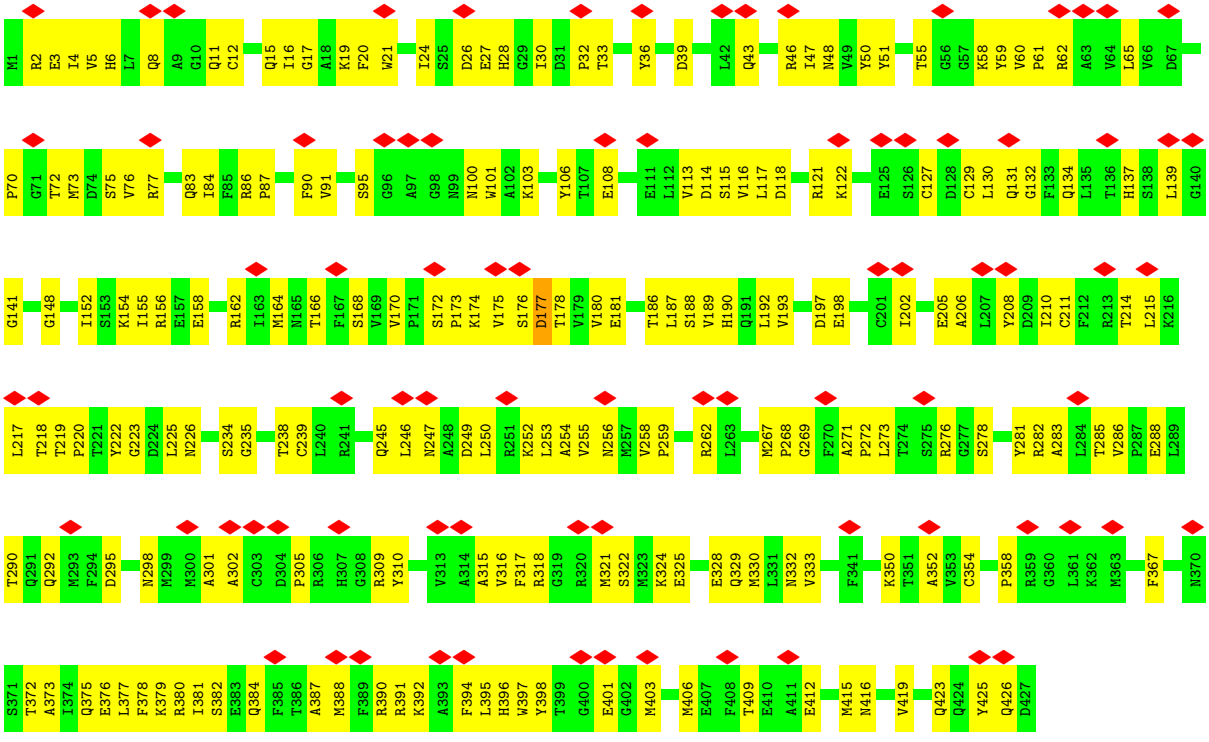




• Molecule 3: Tubulin beta-4B chain

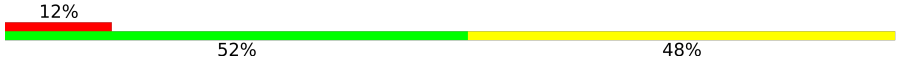
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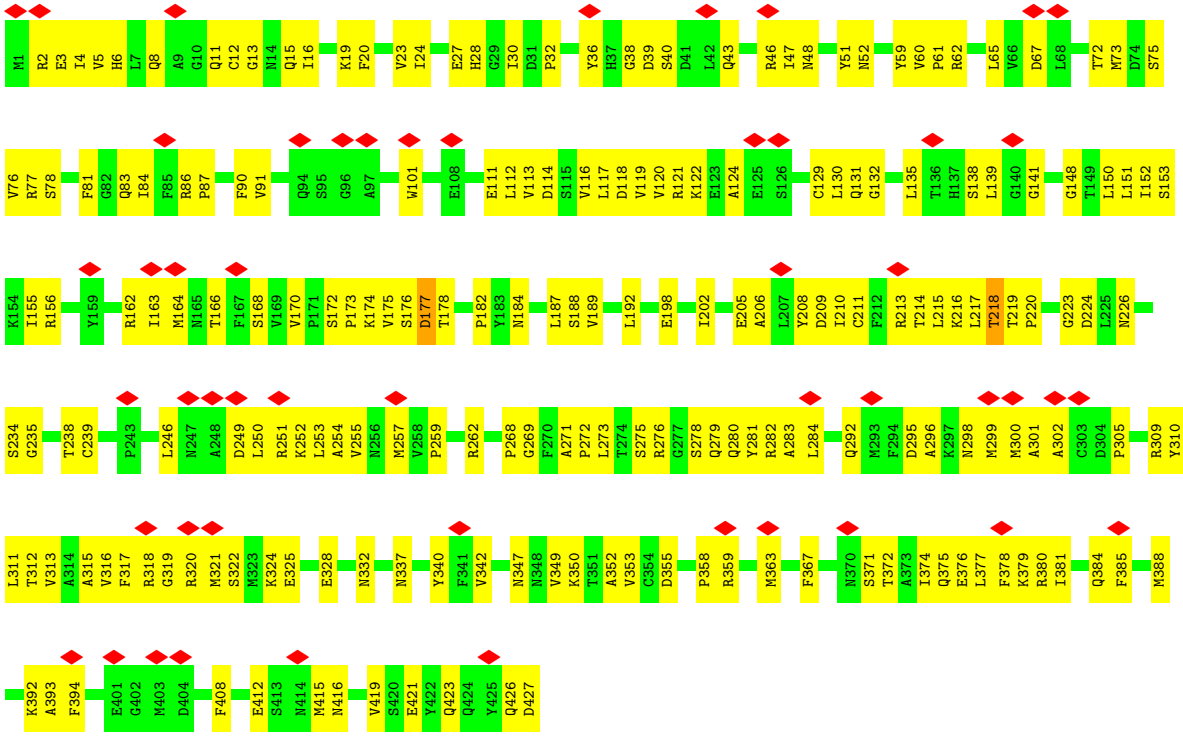




• Molecule 3: Tubulin beta-4B chain

Chain EH:

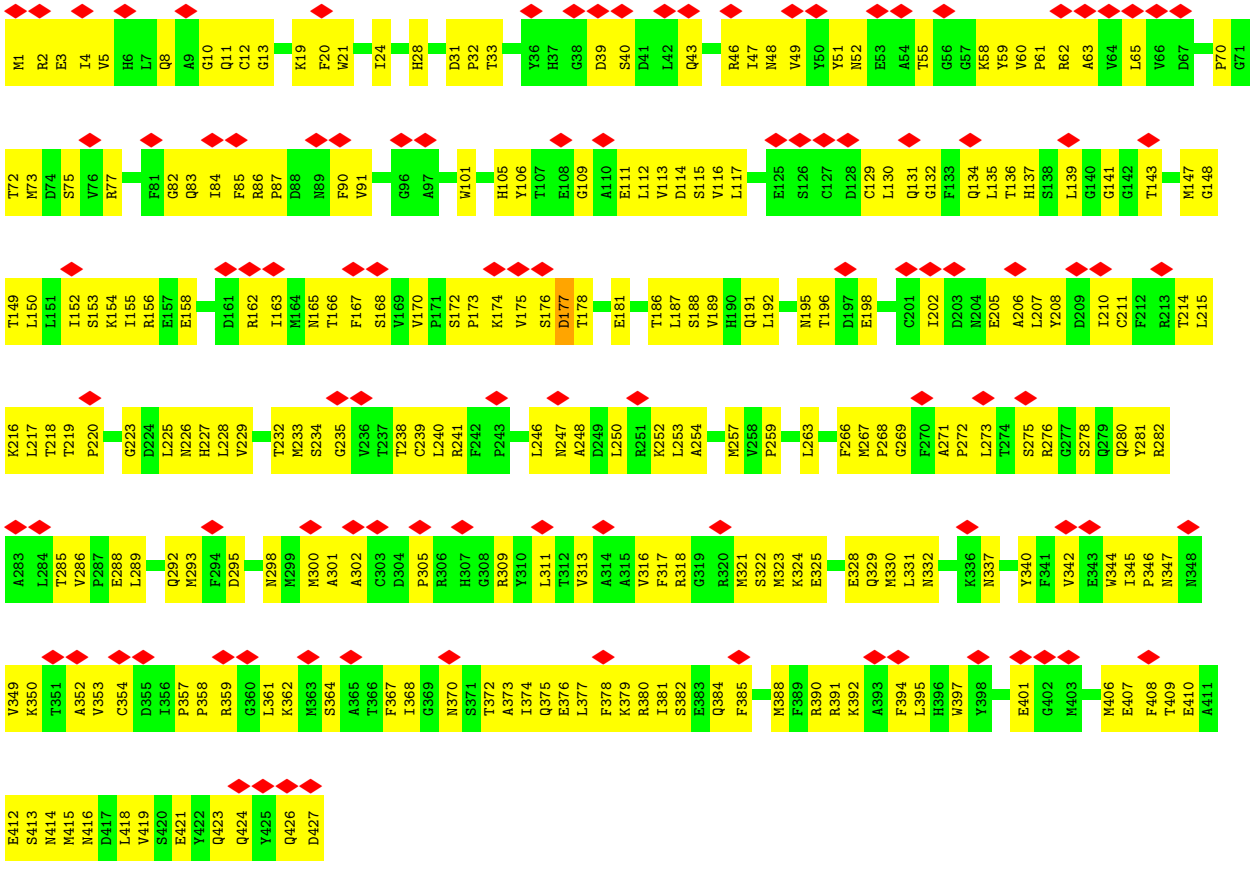




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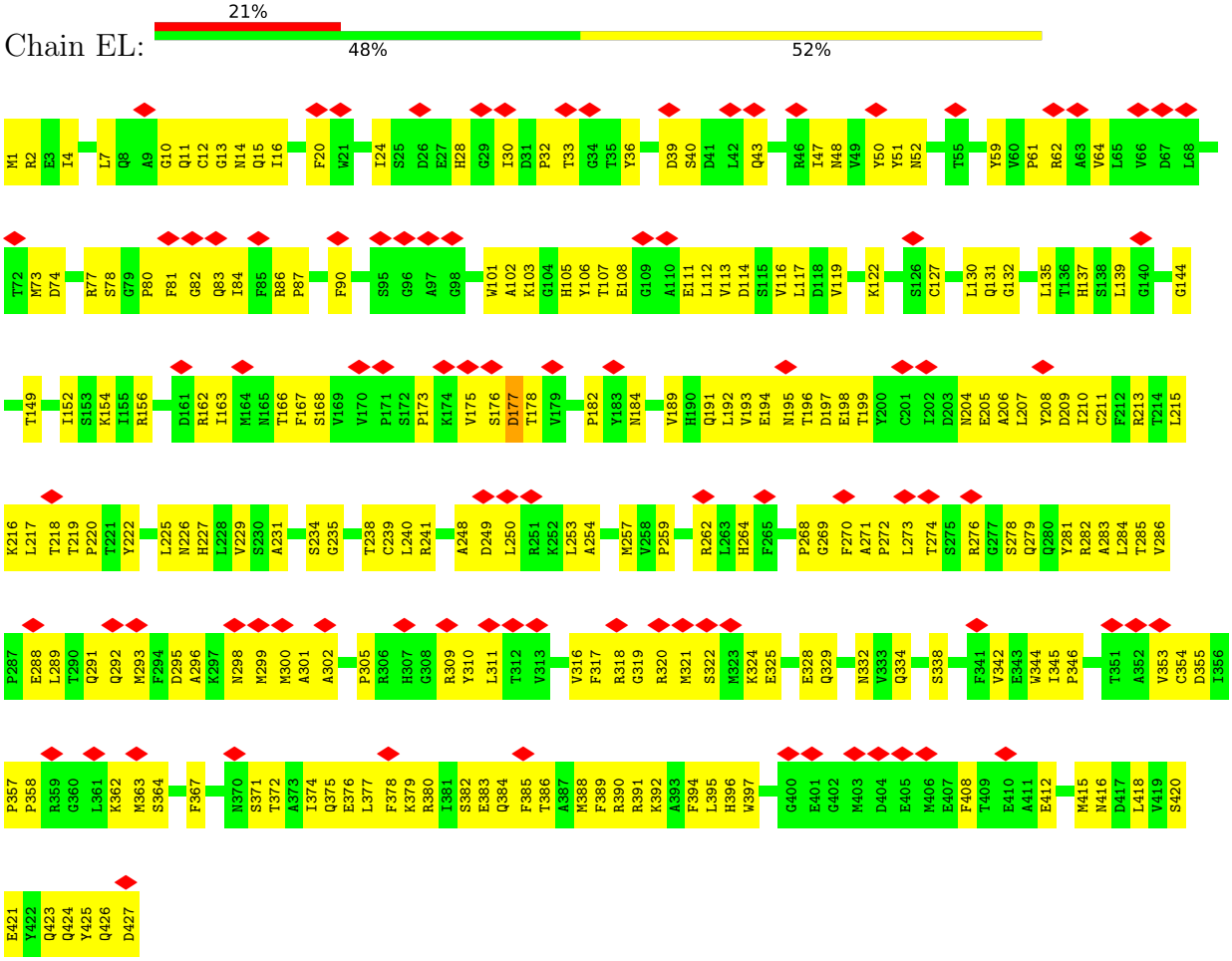
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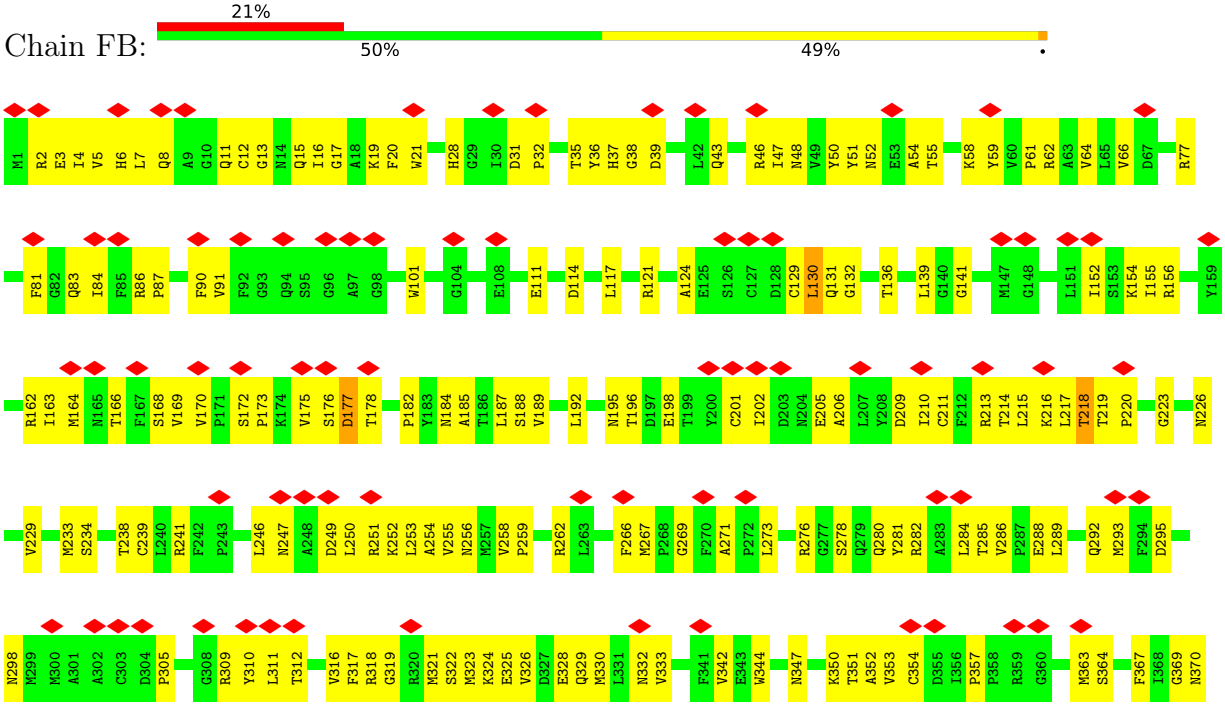
• Molecule 3: Tubulin beta-4B chain

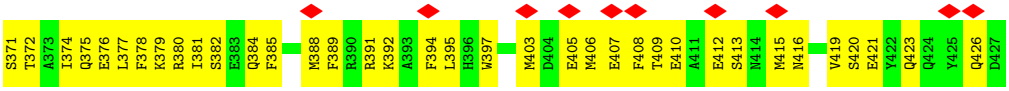
Chain EL:



• Molecule 3: Tubulin beta-4B chain

Chain FB:

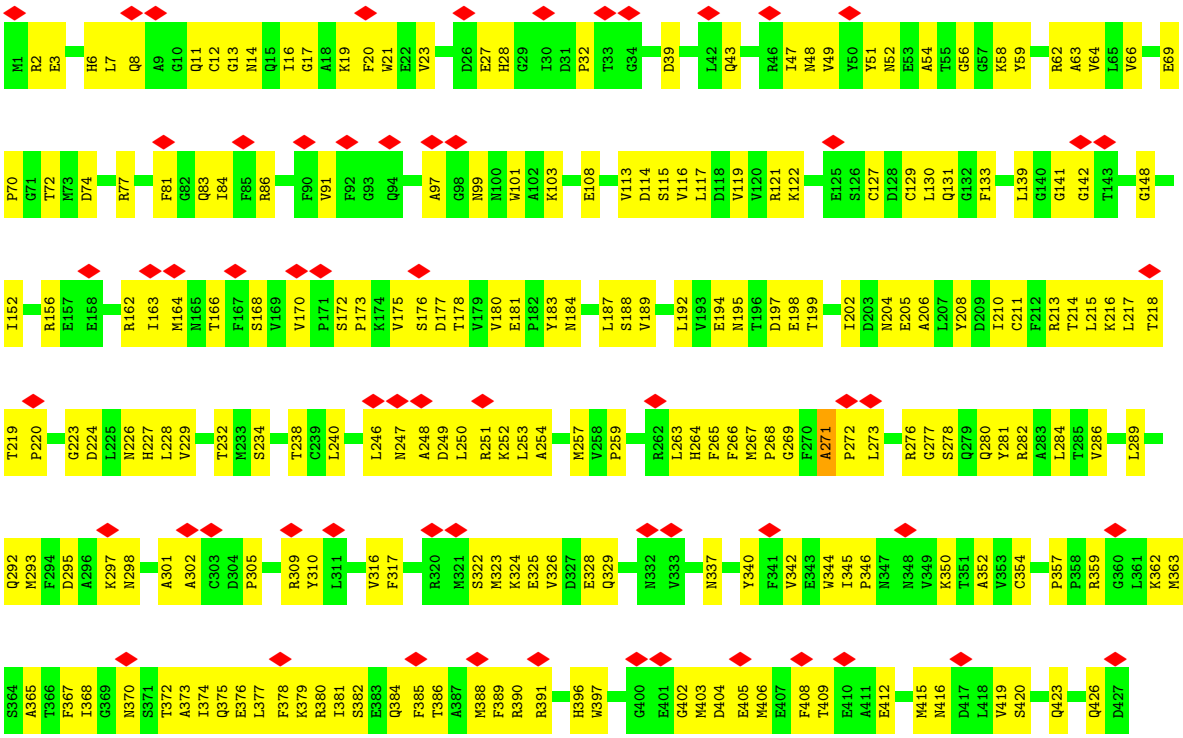




• Molecule 3: Tubulin beta-4B chain

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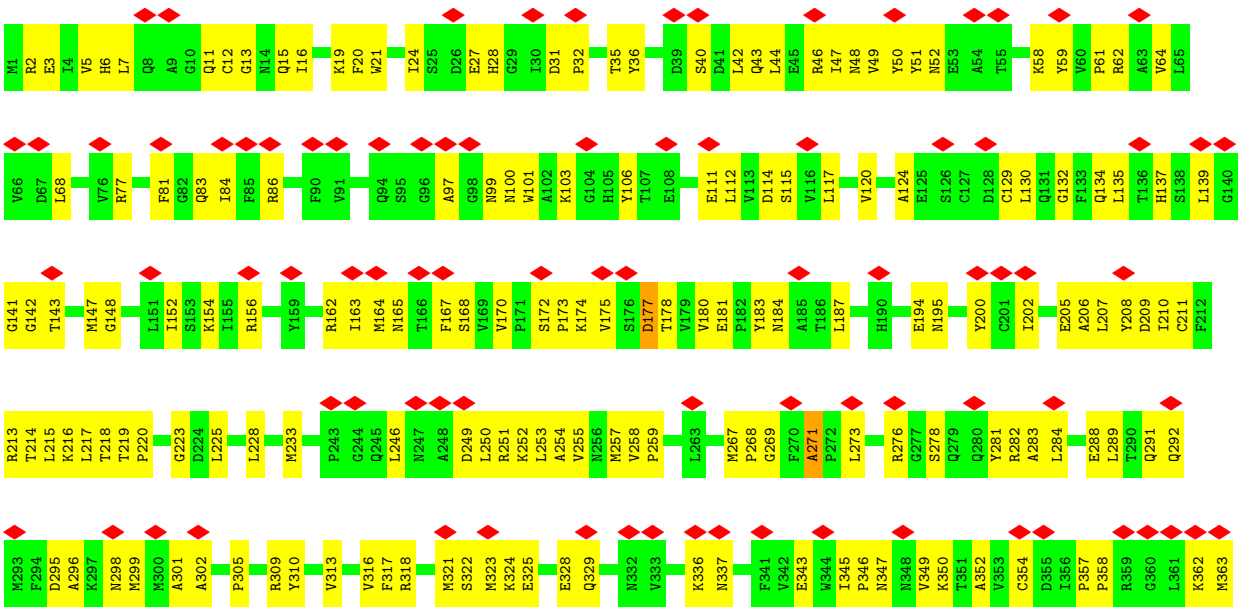




• Molecule 3: Tubulin beta-4B chain

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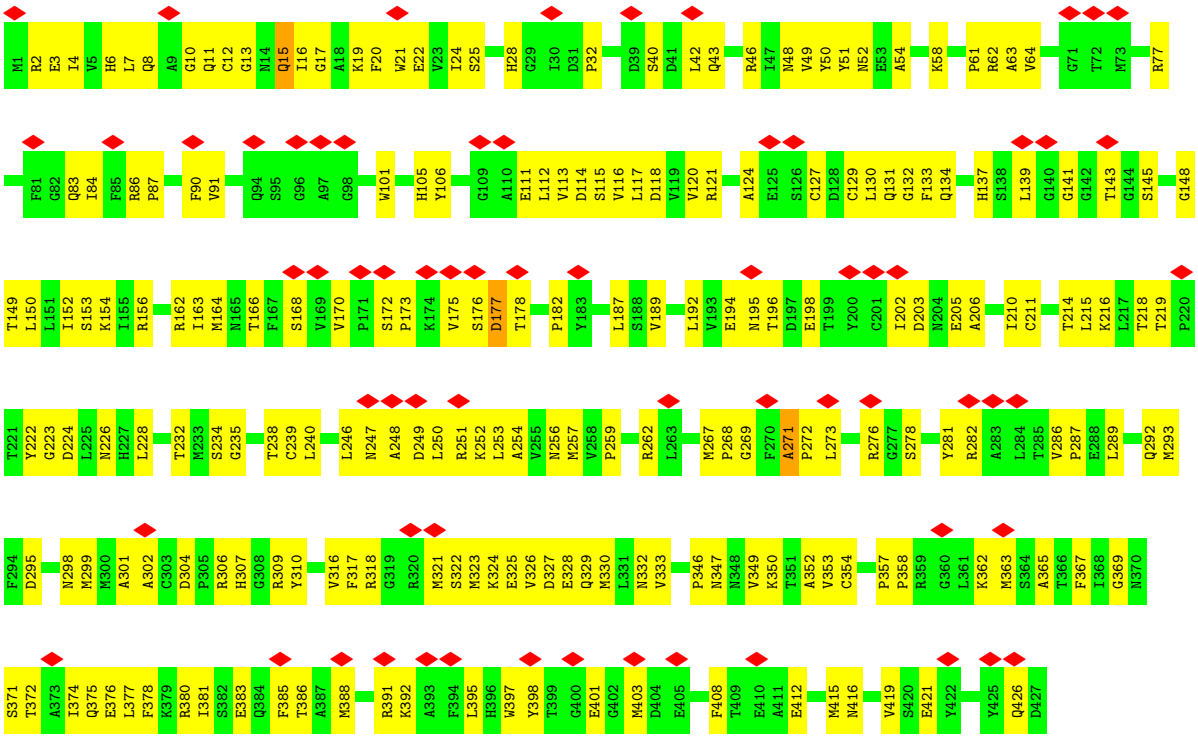




• Molecule 3: Tubulin beta-4B chain

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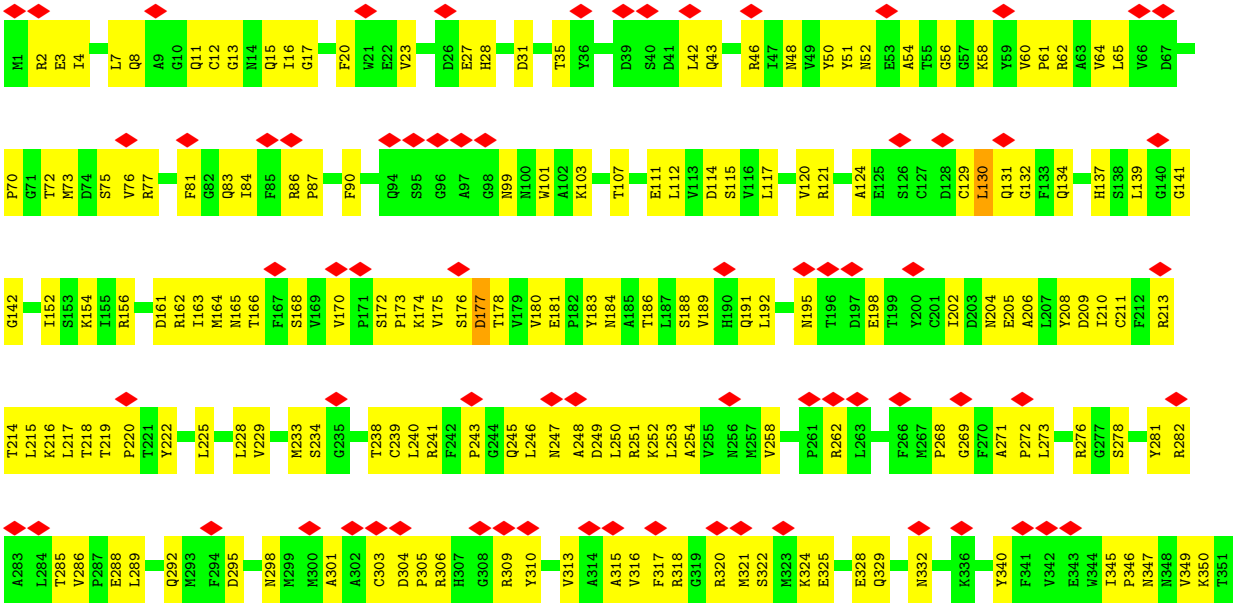


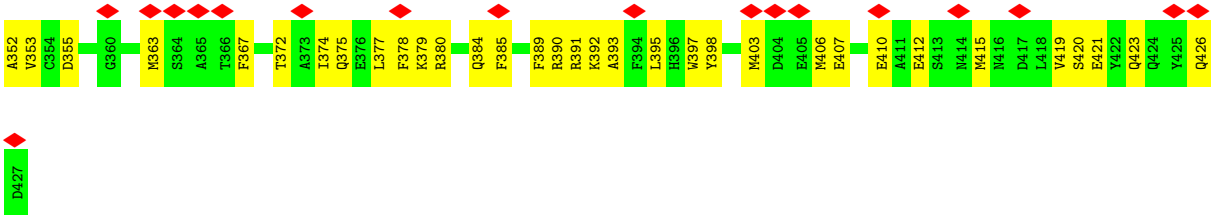


• Molecule 3: Tubulin beta-4B chain

Chain FJ:



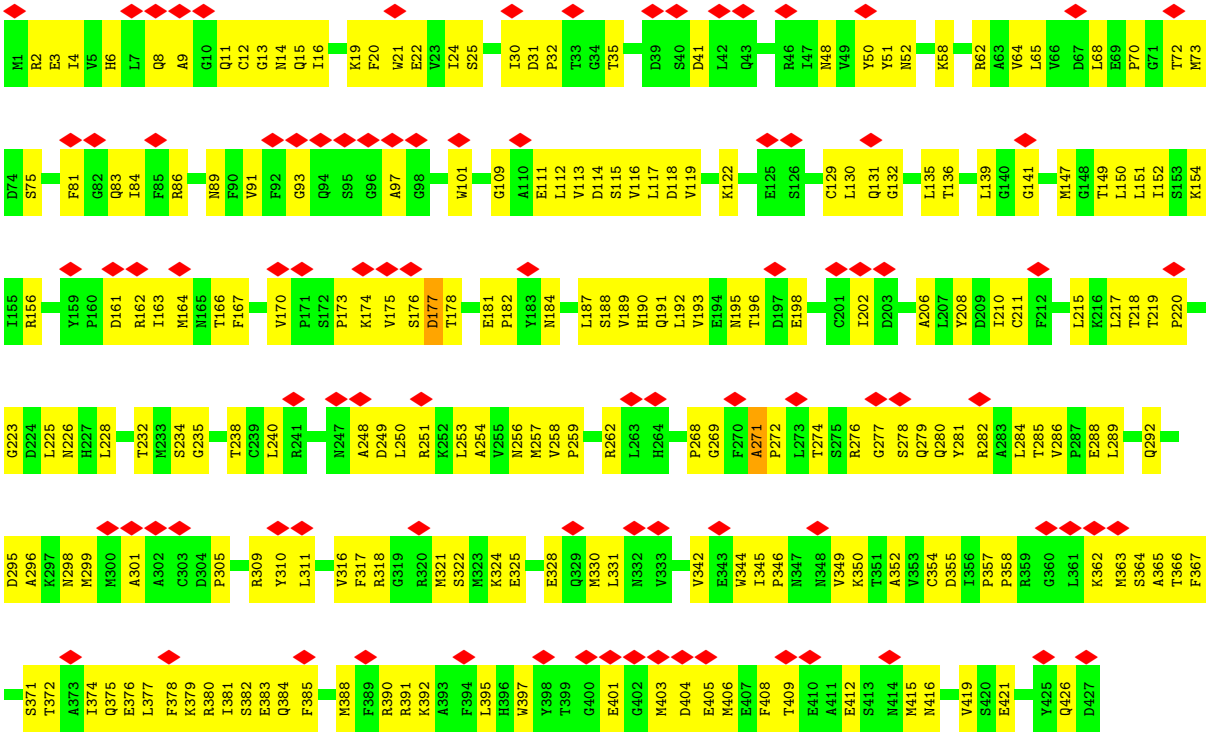




• Molecule 3: Tubulin beta-4B chain

Chain FL:

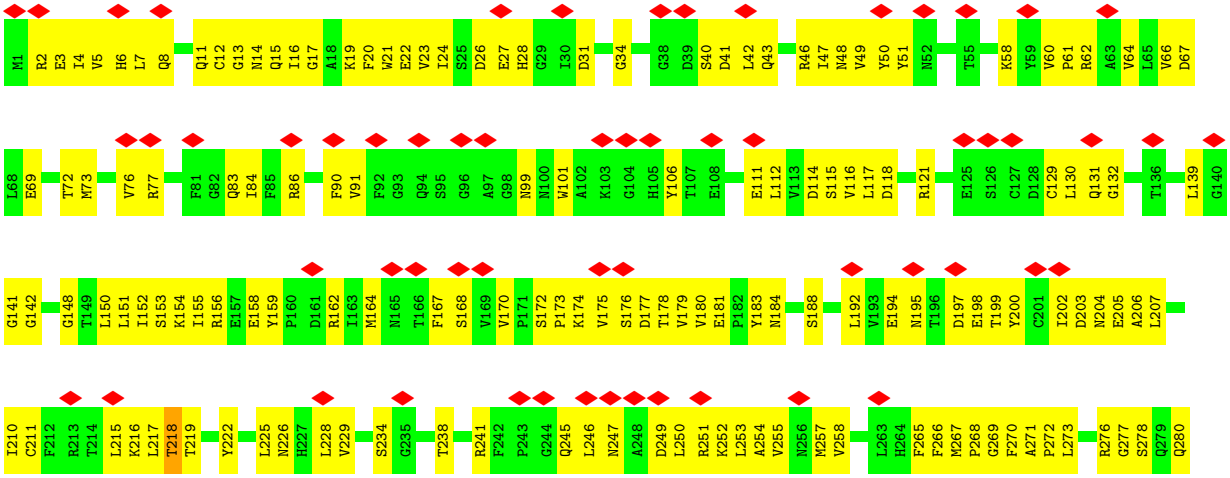


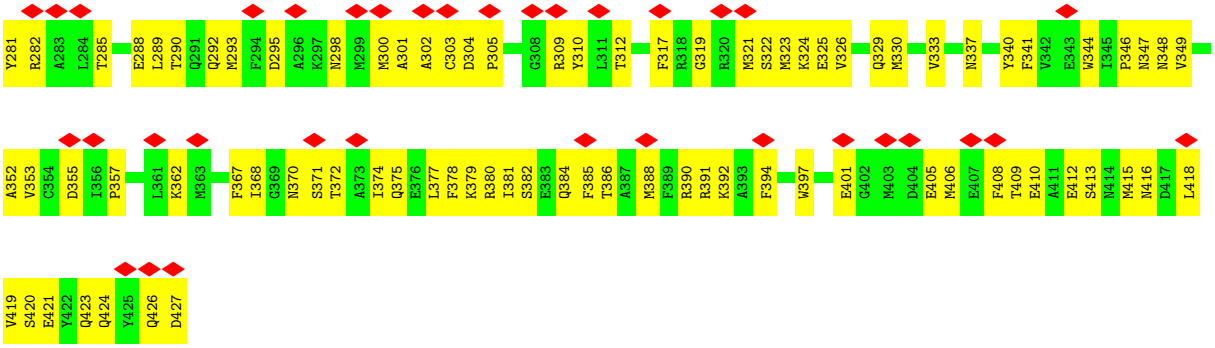


• Molecule 3: Tubulin beta-4B chain

Chain GB:



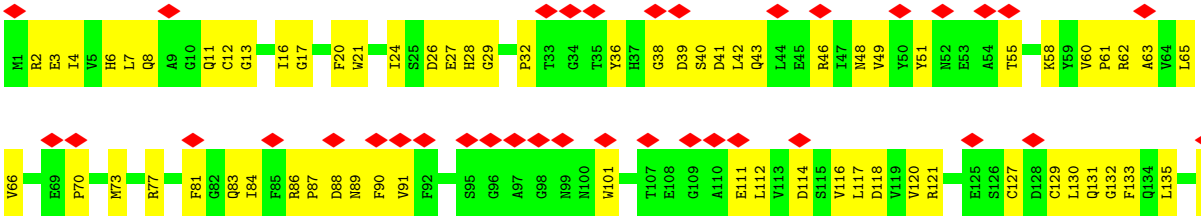




• Molecule 3: Tubulin beta-4B chain

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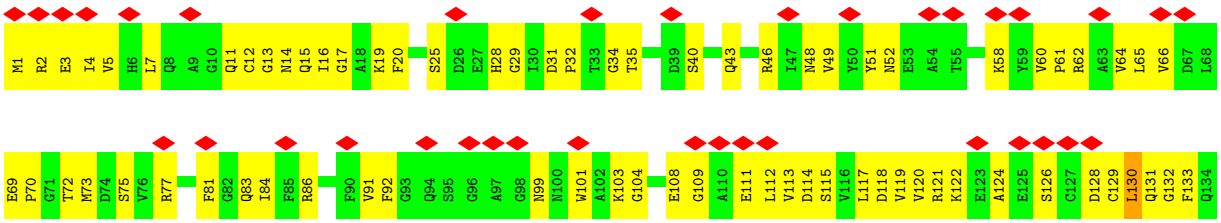


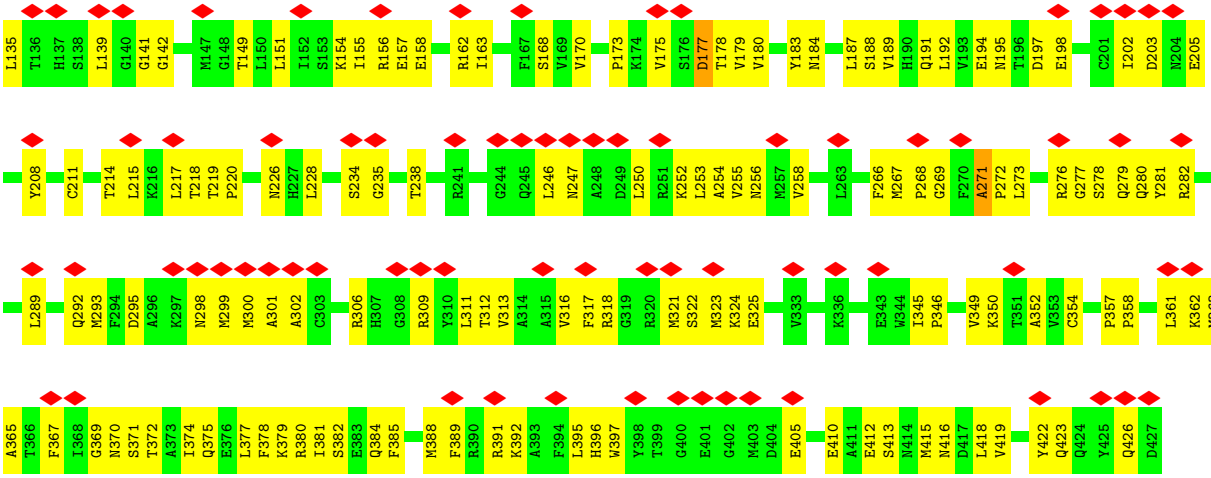


• Molecule 3: Tubulin beta-4B chain

Chain GF:



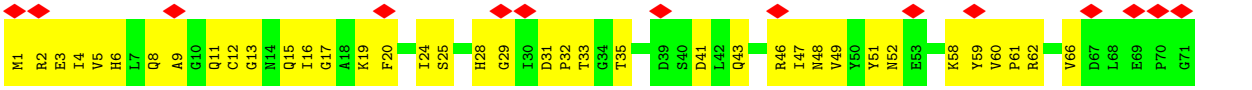




• Molecule 3: Tubulin beta-4B chain

Chain GH:

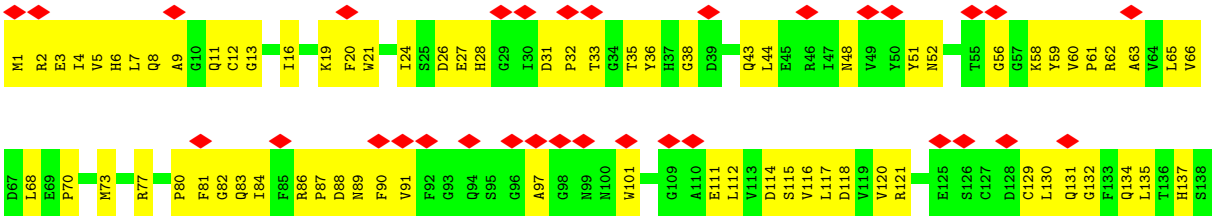


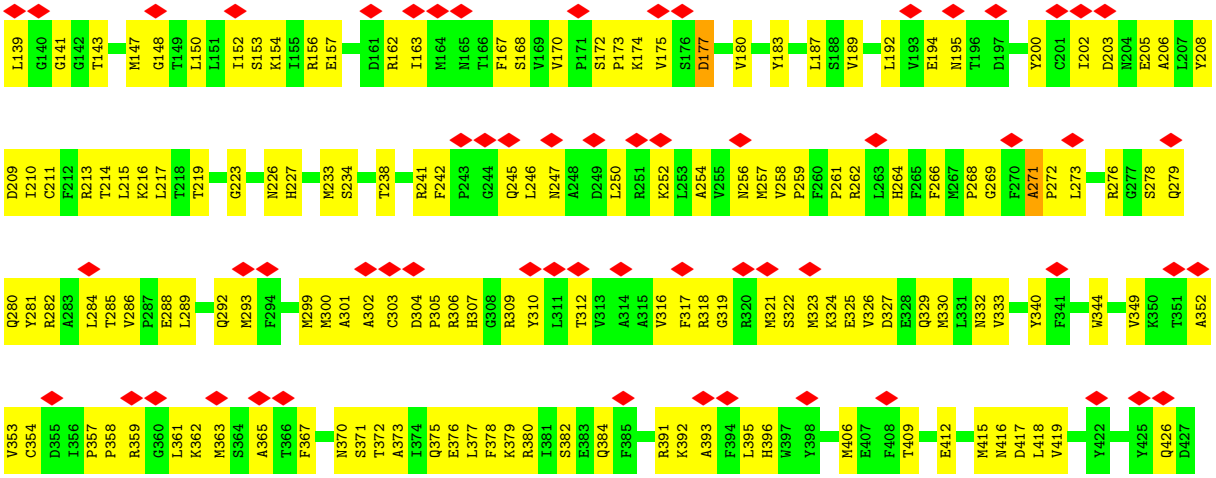


• Molecule 3: Tubulin beta-4B chain

Chain GJ:







• Molecule 3: Tubulin beta-4B chain

Chain GL:

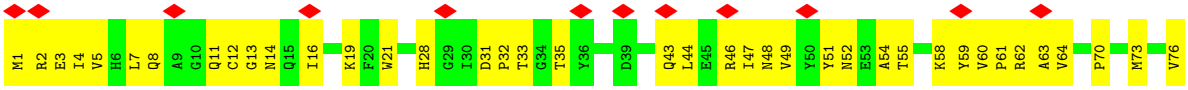


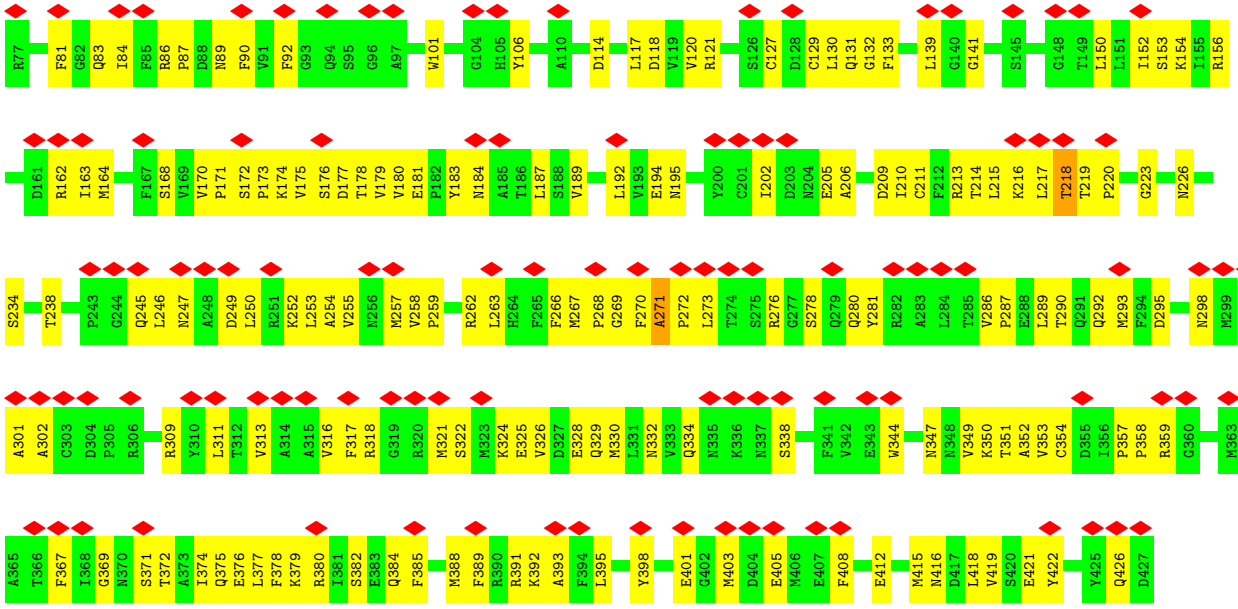


• Molecule 3: Tubulin beta-4B chain

Chain HB:



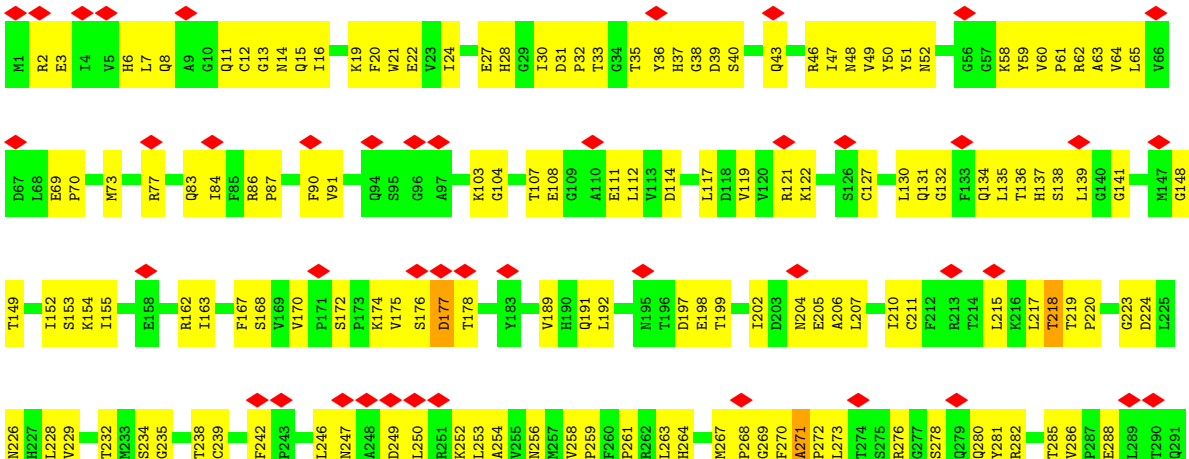


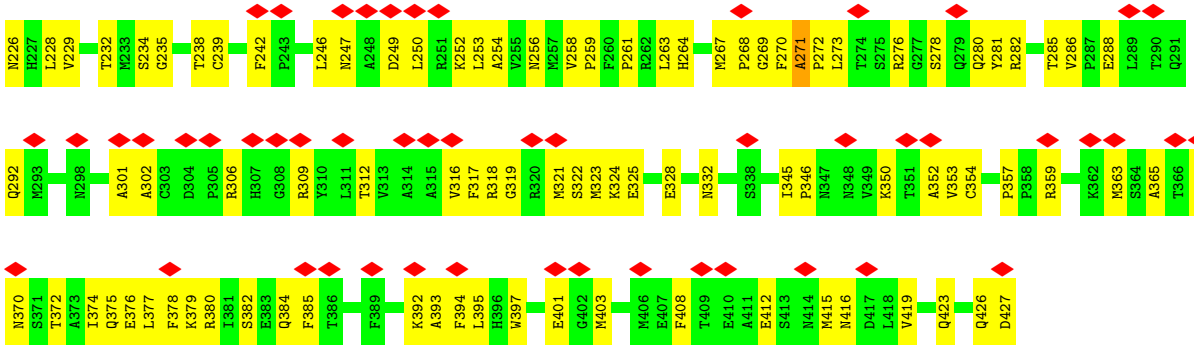


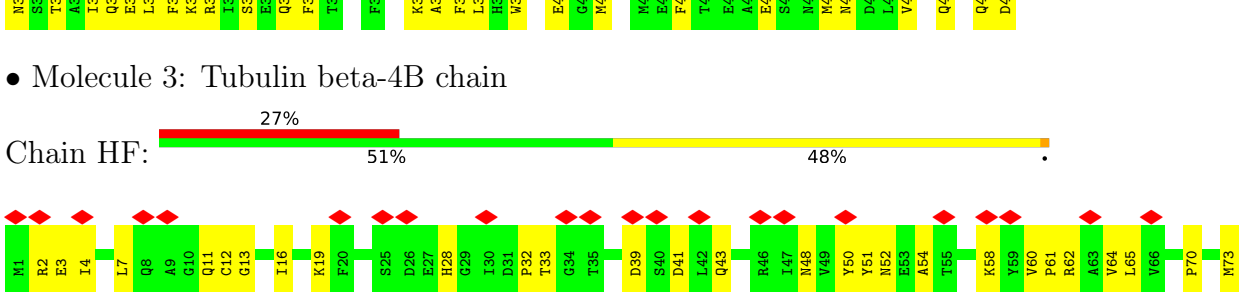
• Molecule 3: Tubulin beta-4B chain

Chain HD:





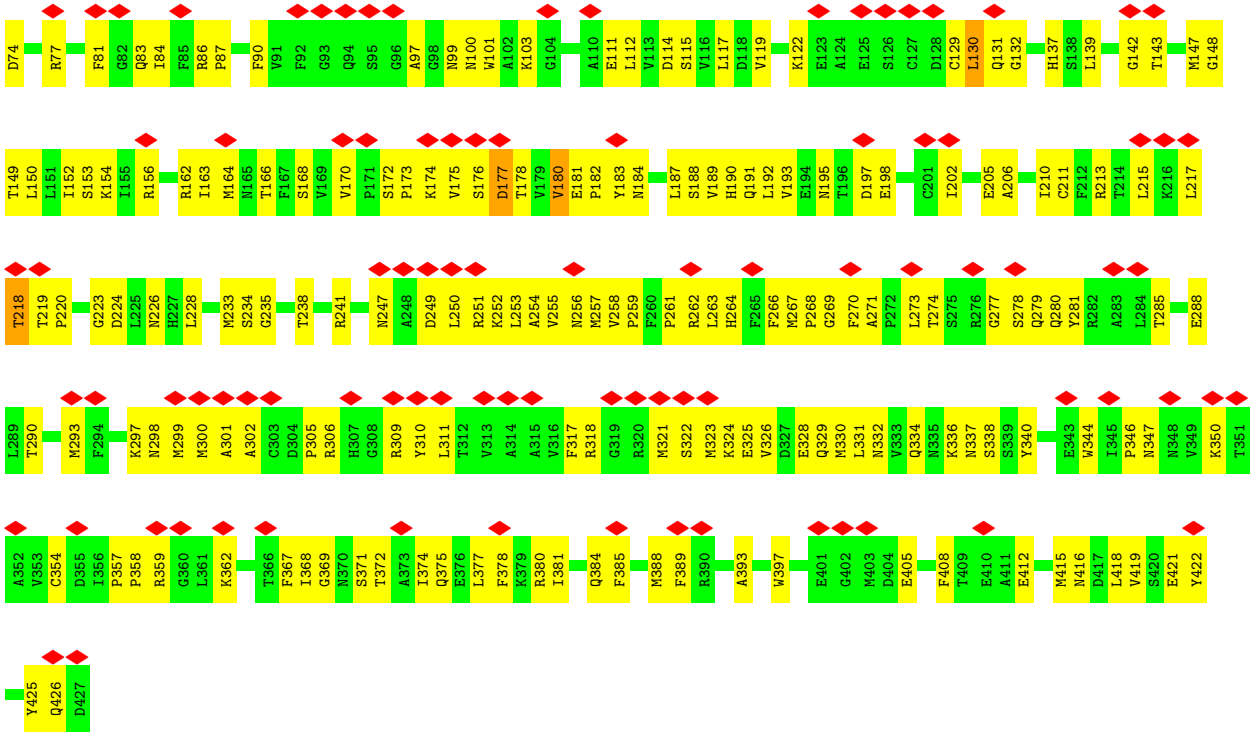






• Molecule 3: Tubulin beta-4B chain

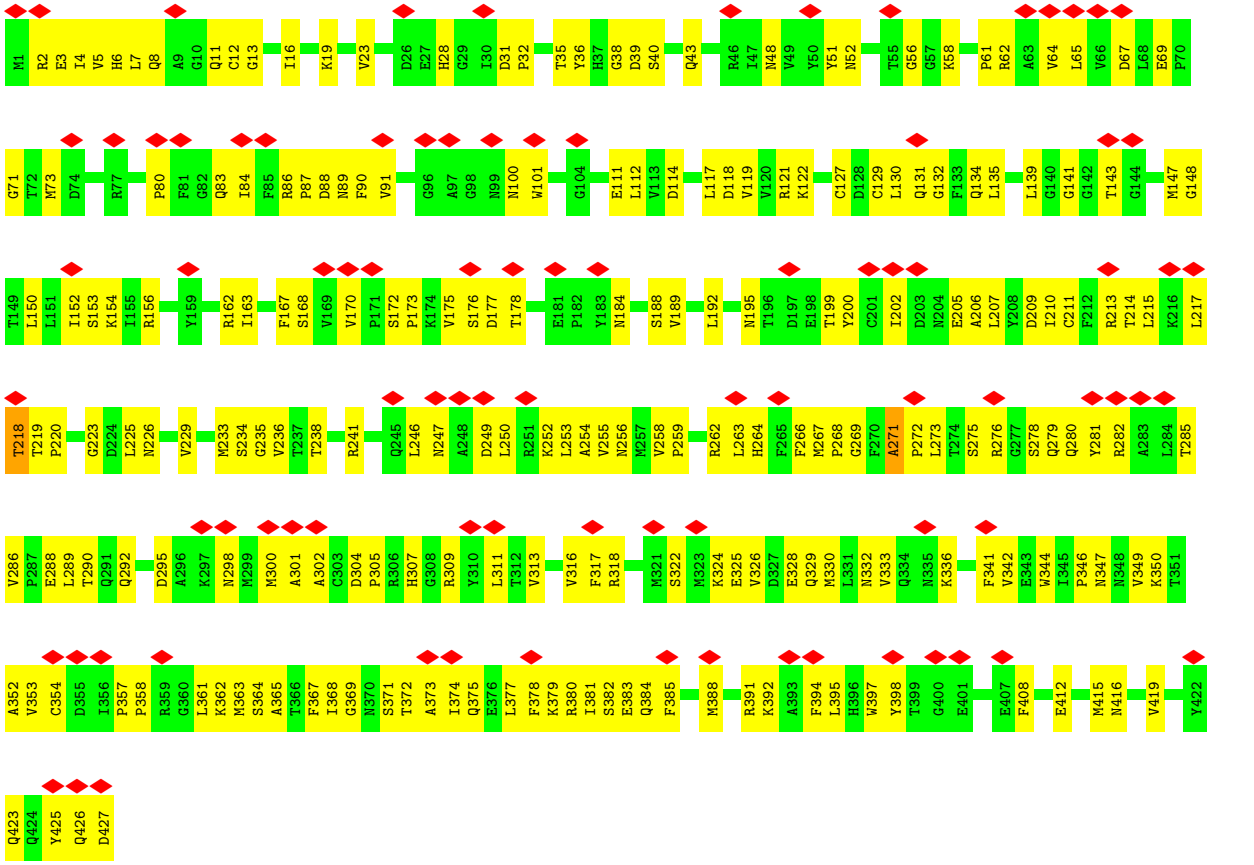
Chain HF:



• Molecule 3: Tubulin beta-4B chain

Chain HH:





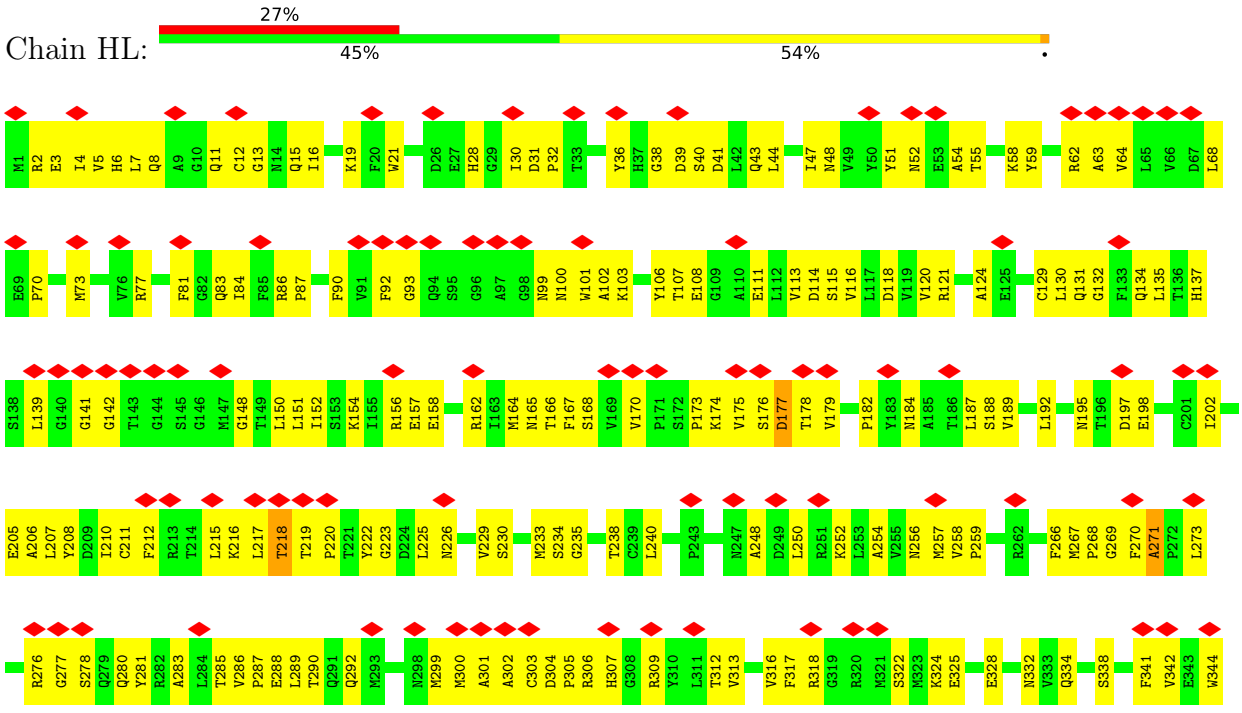
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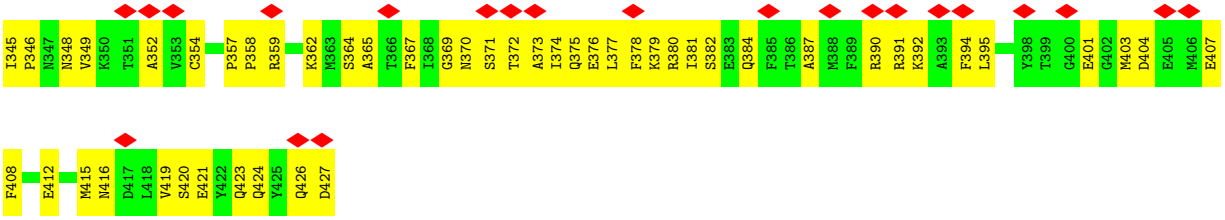
Chain HJ:



• Molecule 3: Tubulin beta-4B chain

Chain HL:

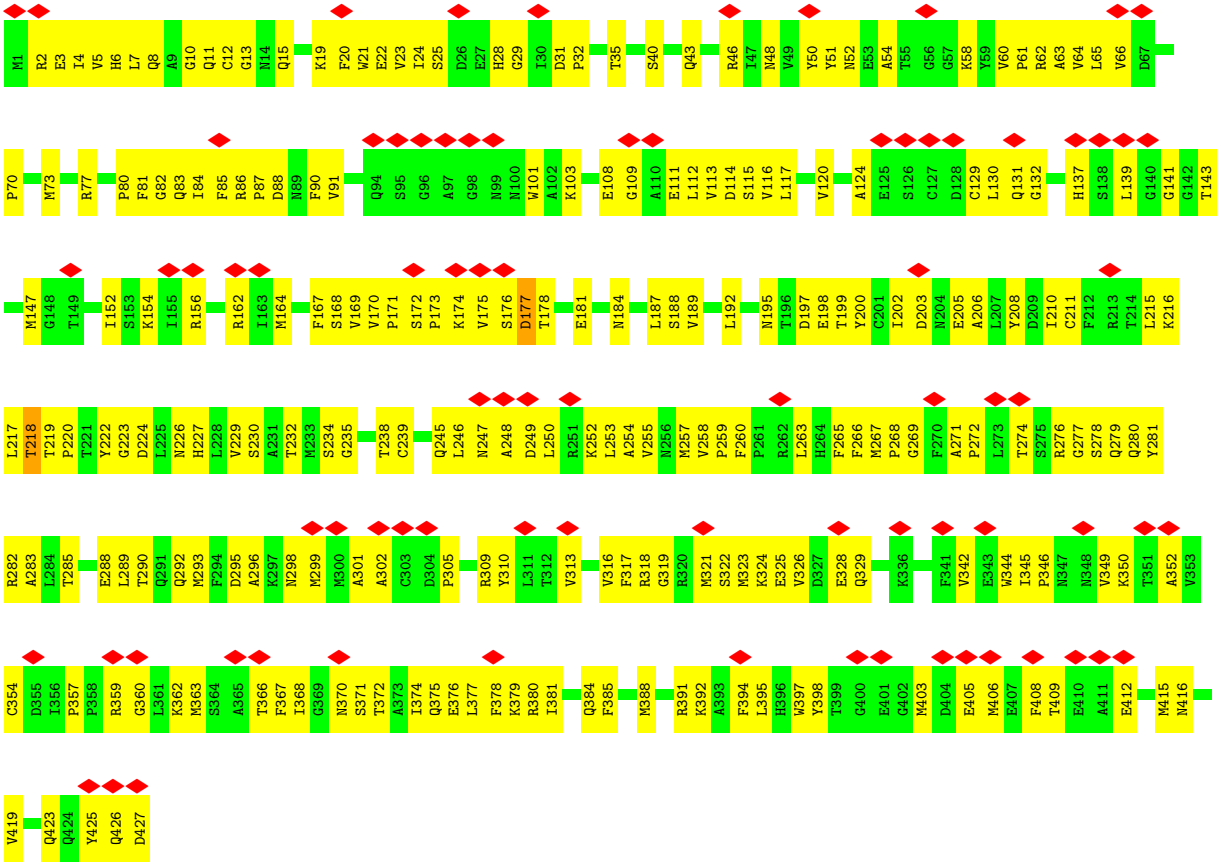




• Molecule 3: Tubulin beta-4B chain

Chain IB:

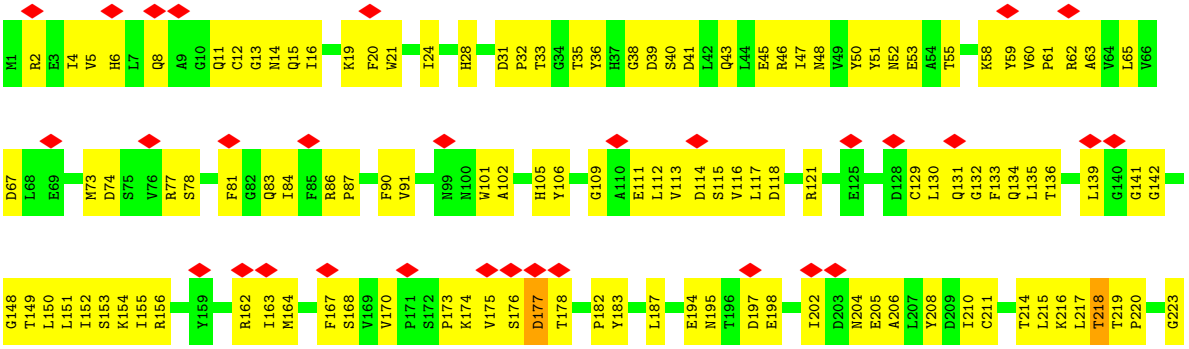


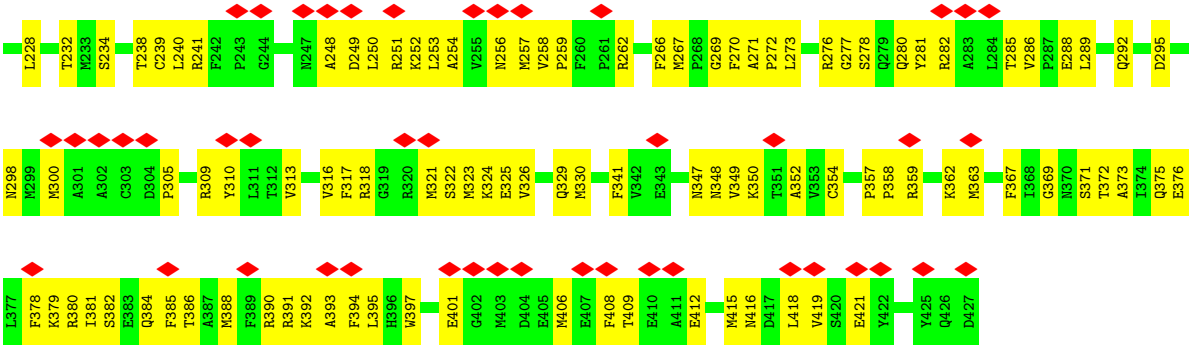


• Molecule 3: Tubulin beta-4B chain

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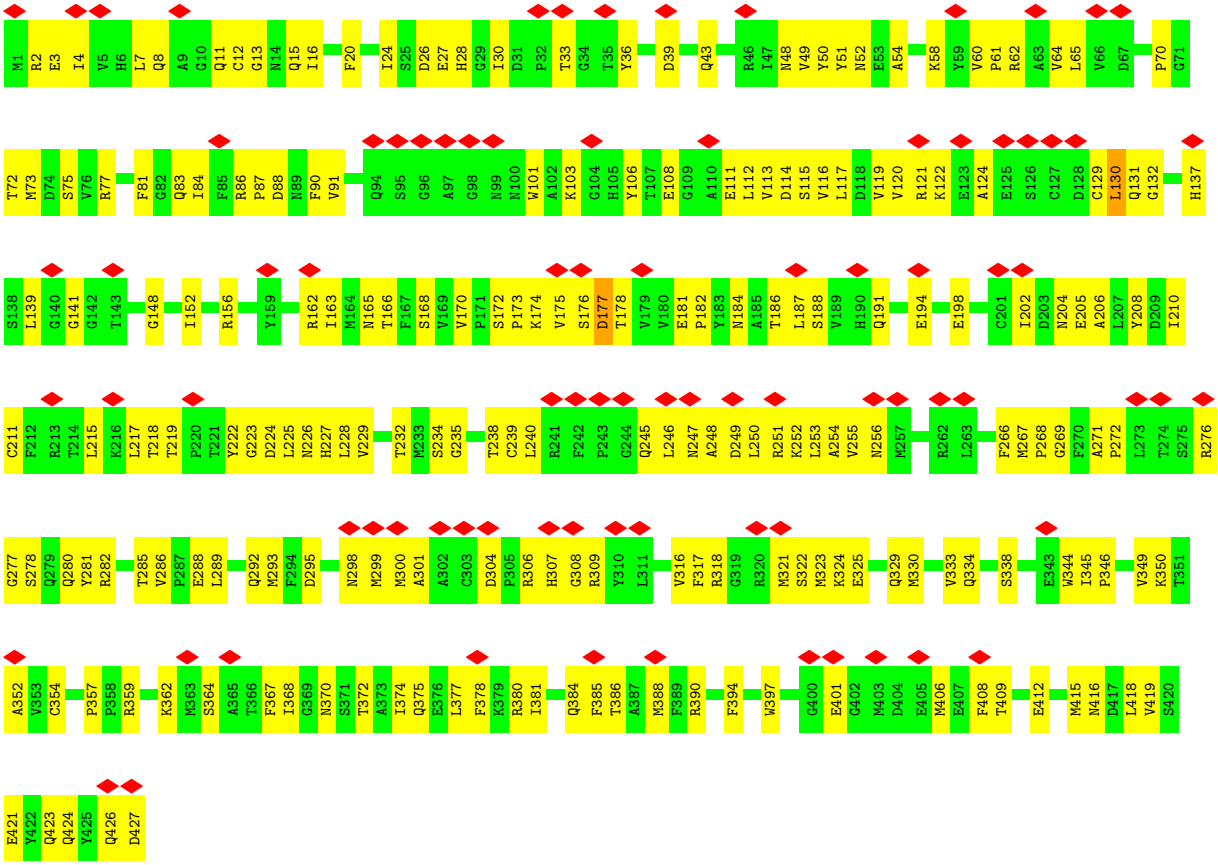




• Molecule 3: Tubulin beta-4B chain

Chain IF:

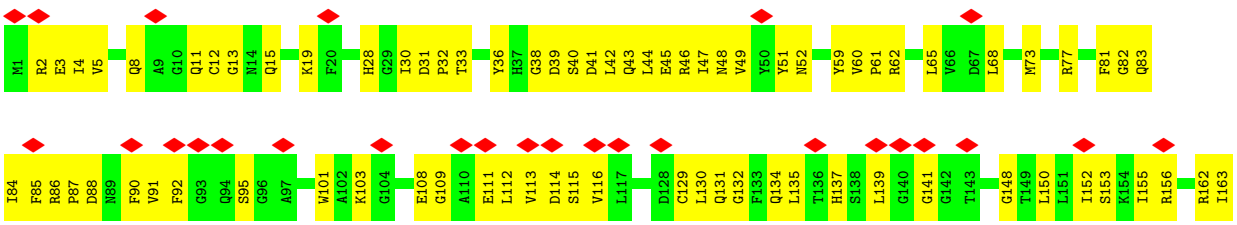


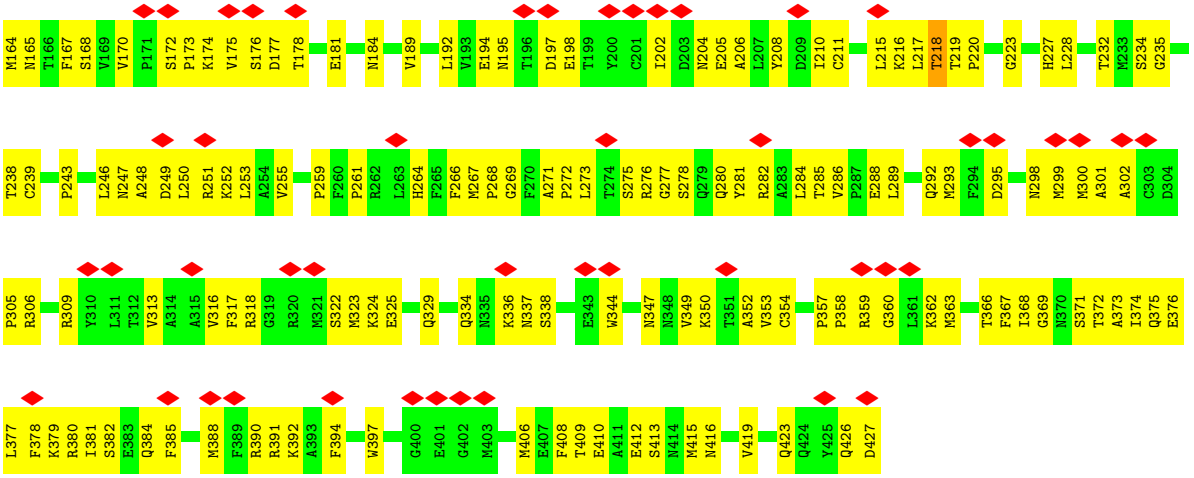


• Molecule 3: Tubulin beta-4B chain

Chain IH:



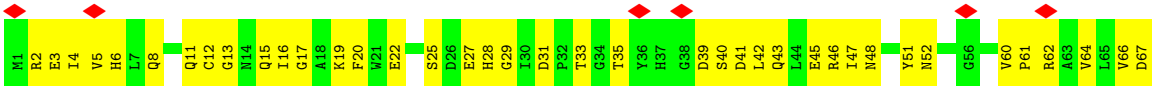


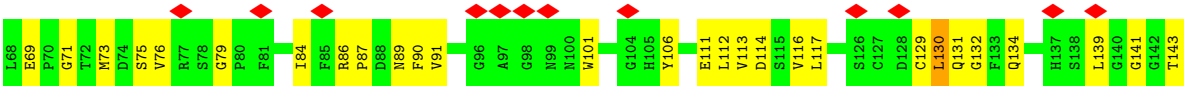


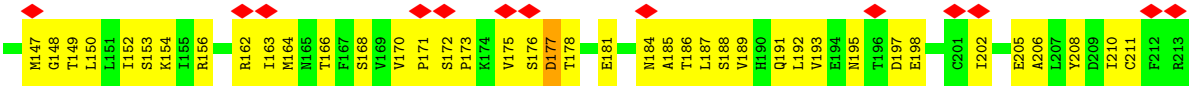
• Molecule 3: Tubulin beta-4B chain

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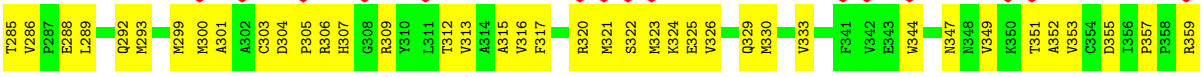


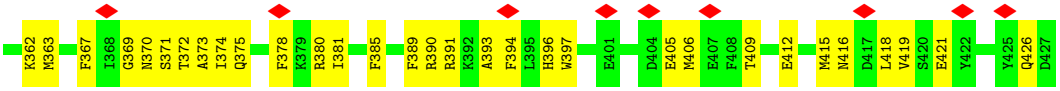








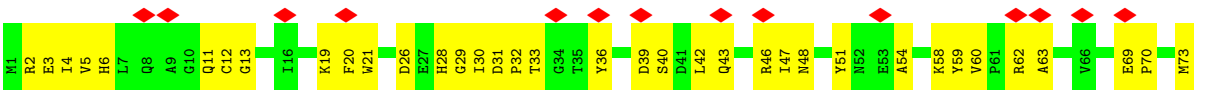




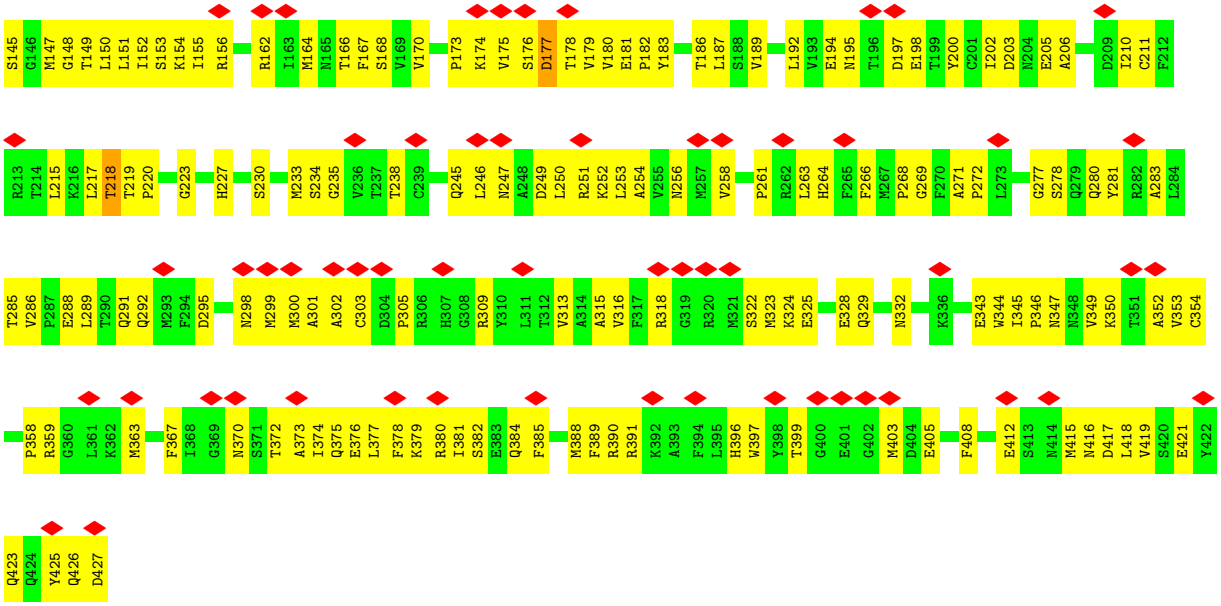
• Molecule 3: Tubulin beta-4B chain

Chain IL:





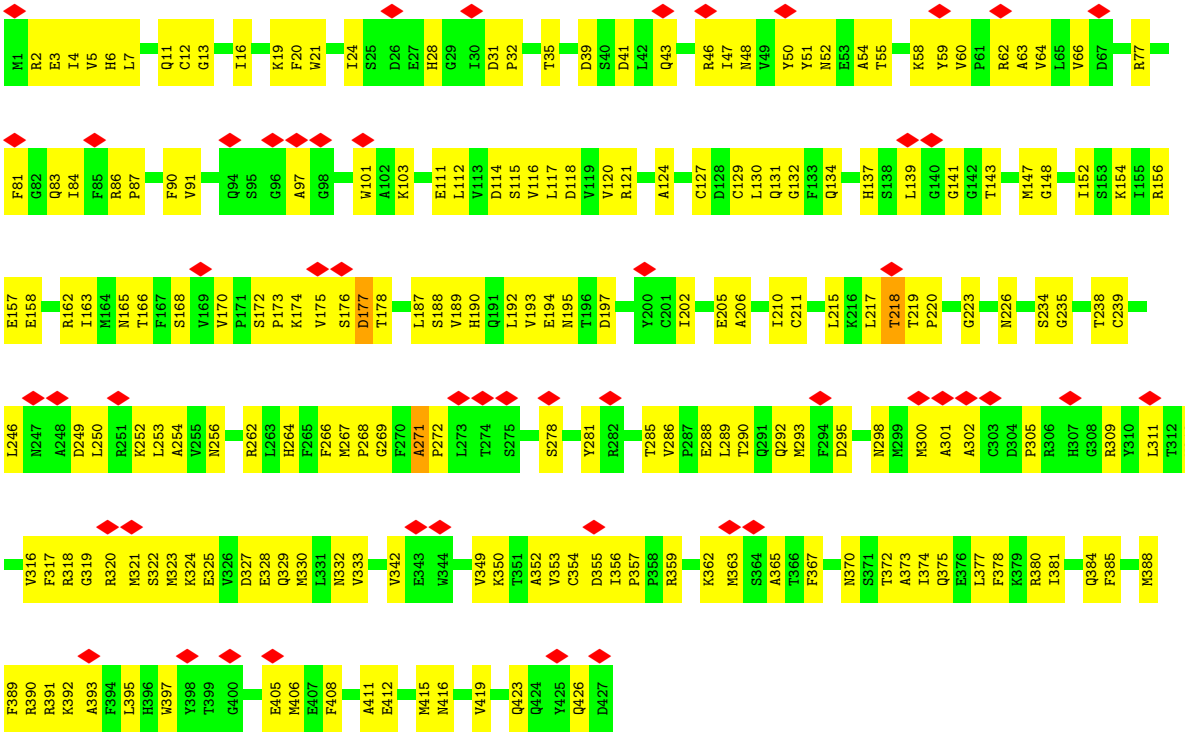




• Molecule 3: Tubulin beta-4B chain

Chain JB:

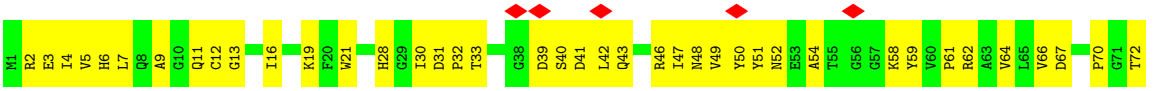


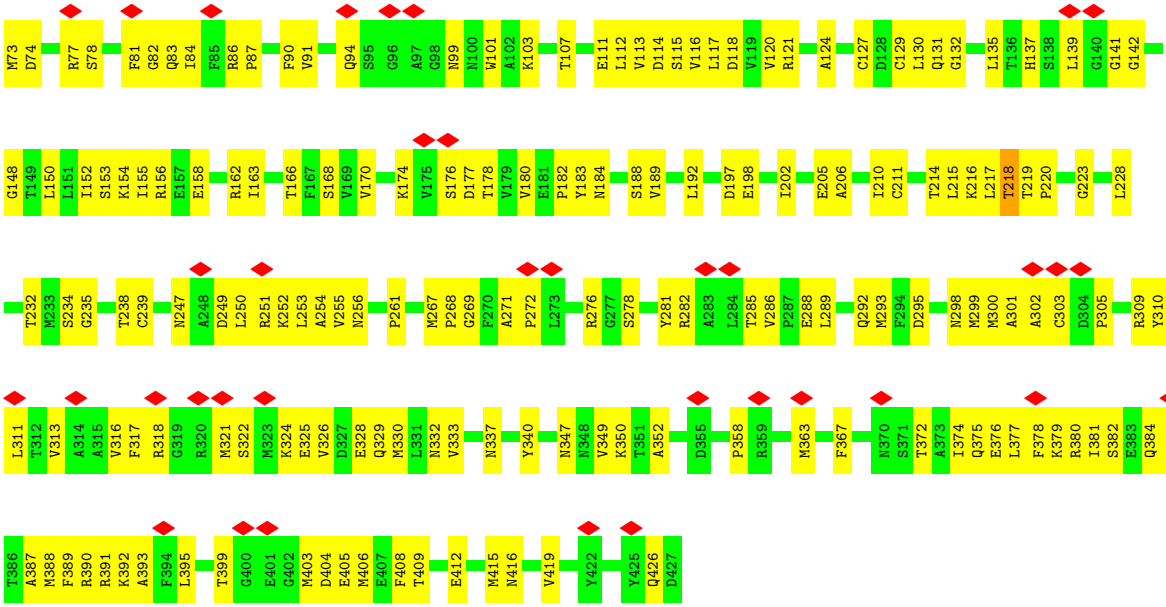


• Molecule 3: Tubulin beta-4B chain

Chain JD:



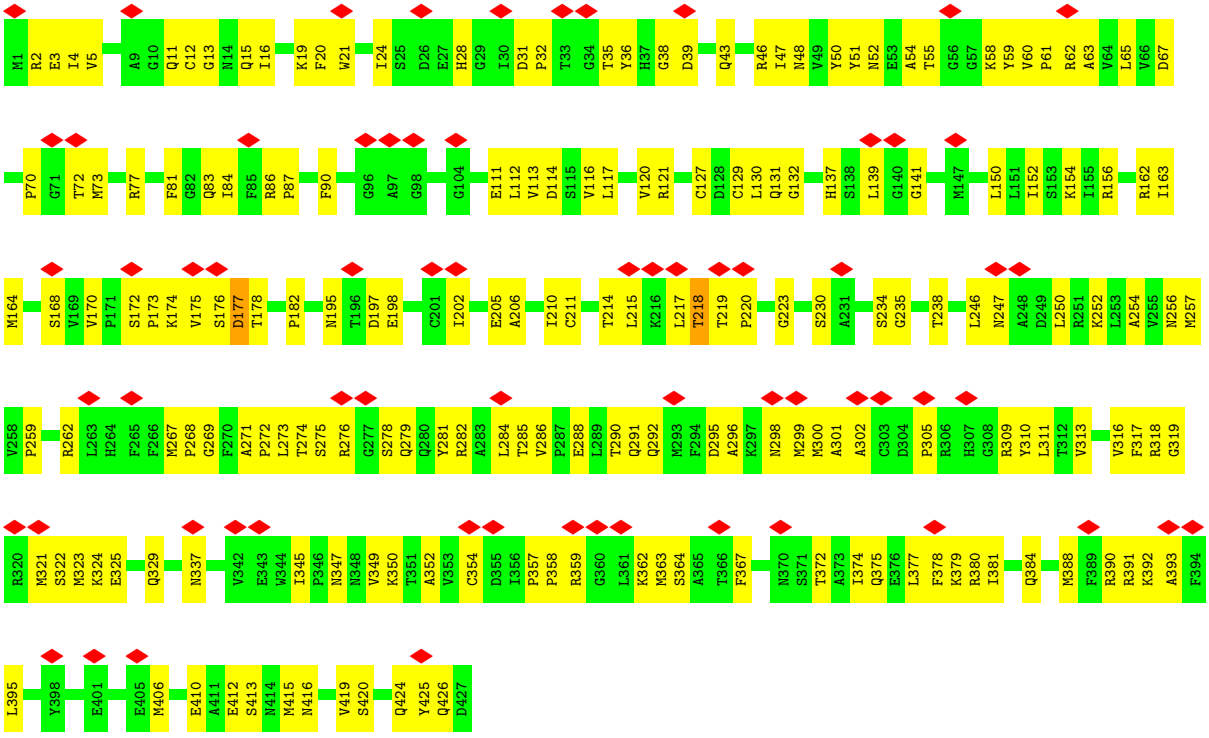




• Molecule 3: Tubulin beta-4B chain

Chain JF:

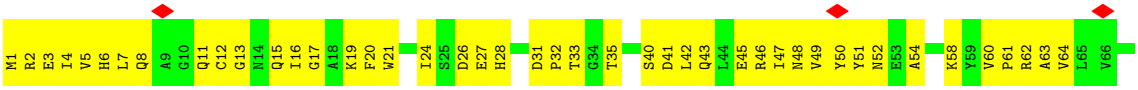


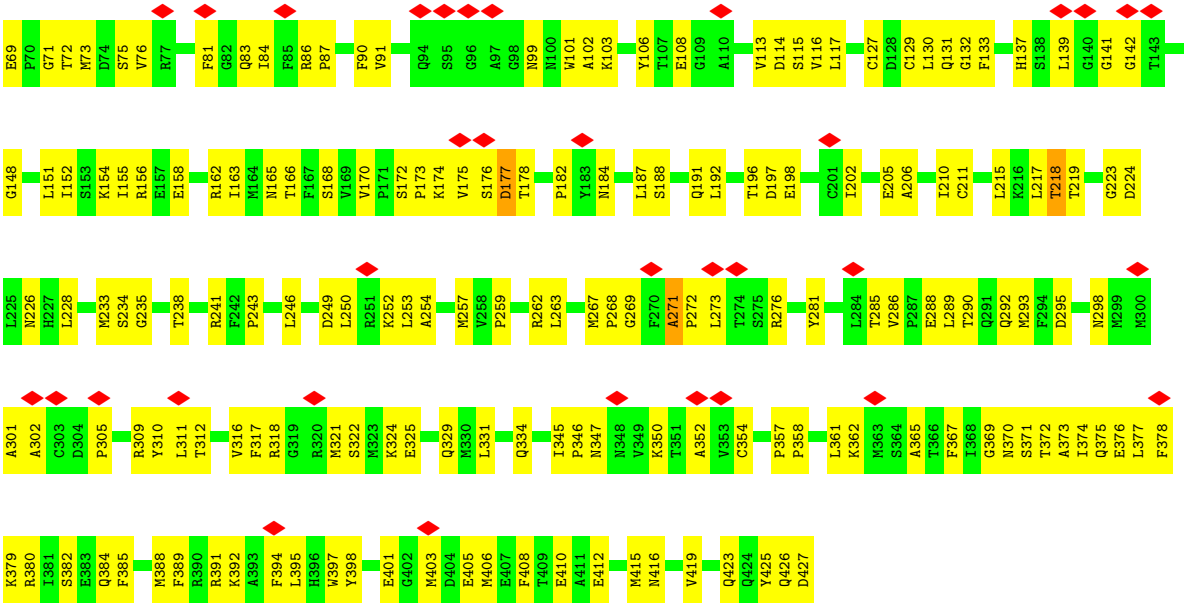


• Molecule 3: Tubulin beta-4B chain

Chain JH:



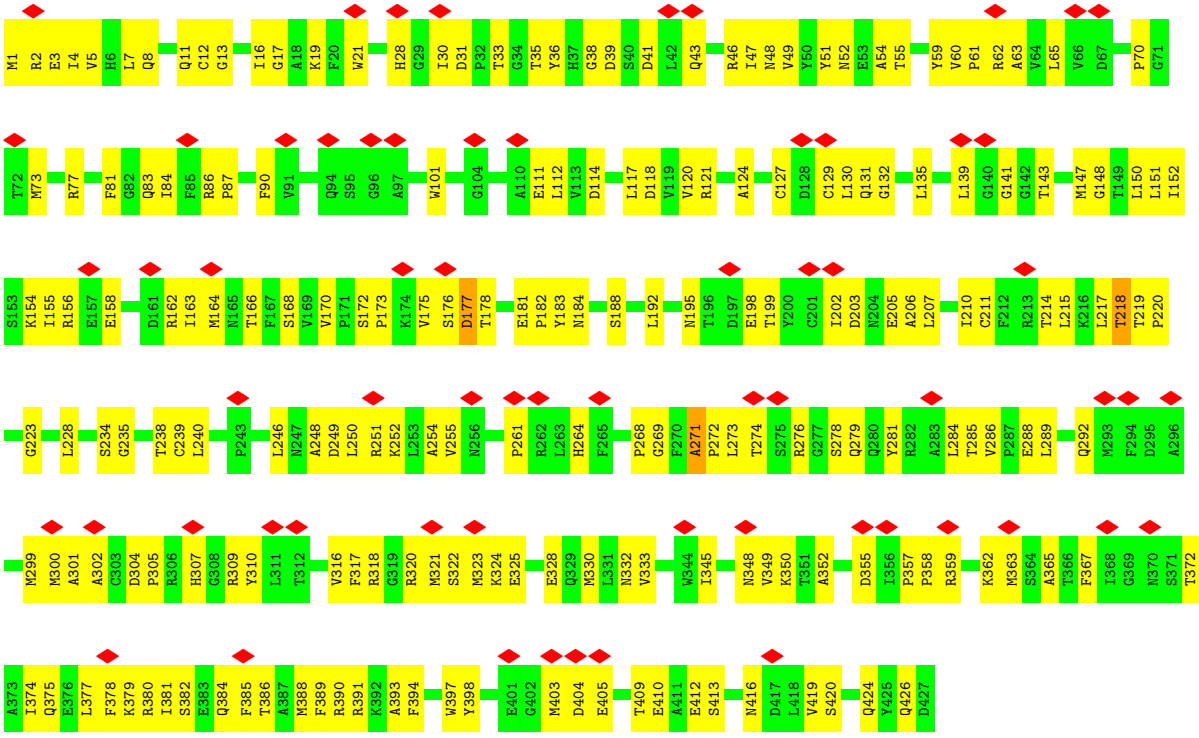




• Molecule 3: Tubulin beta-4B chain

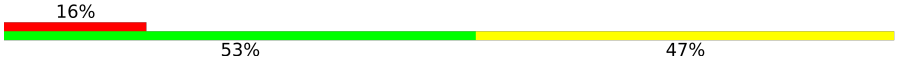
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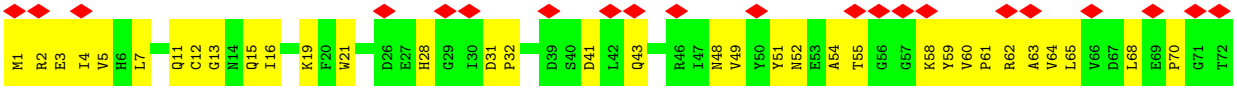


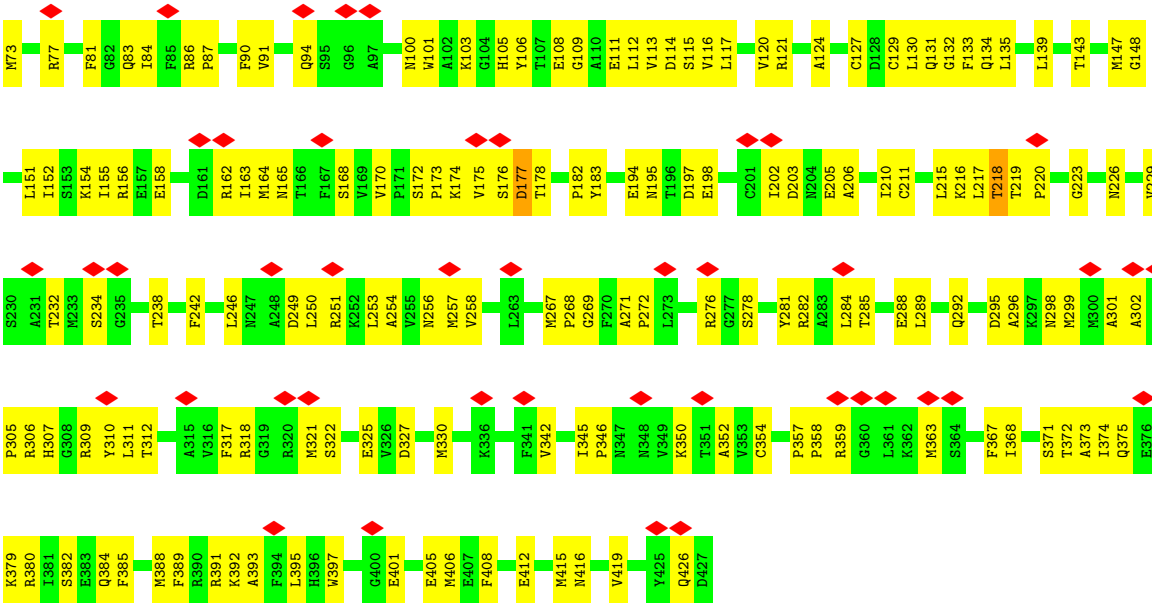


• Molecule 3: Tubulin beta-4B chain

Chain JL:



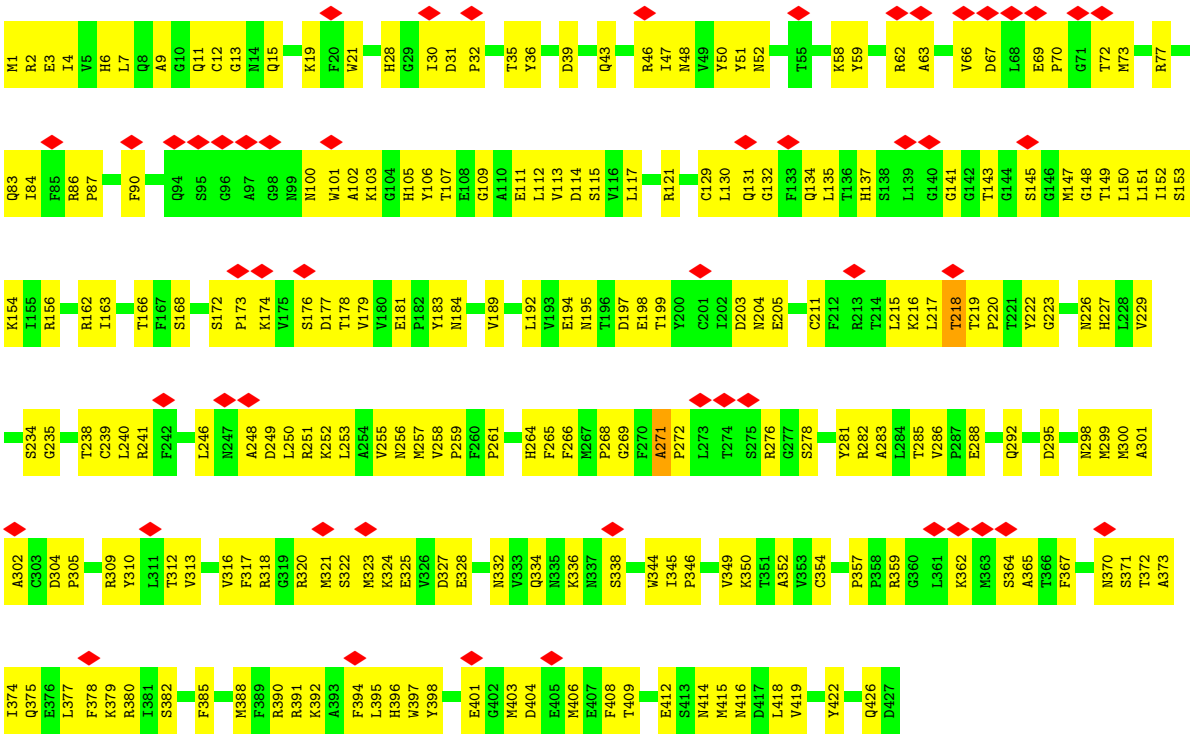




• Molecule 3: Tubulin beta-4B chain

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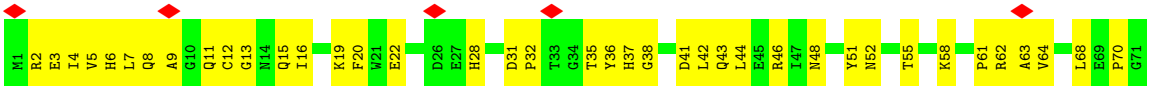


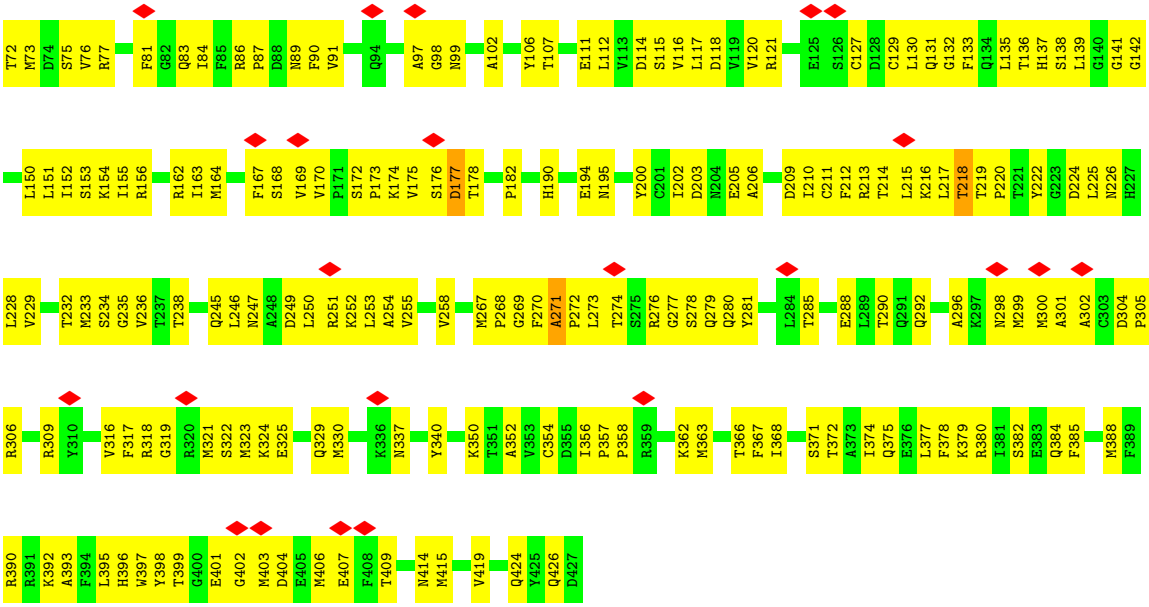


• Molecule 3: Tubulin beta-4B chain

Chain KD:



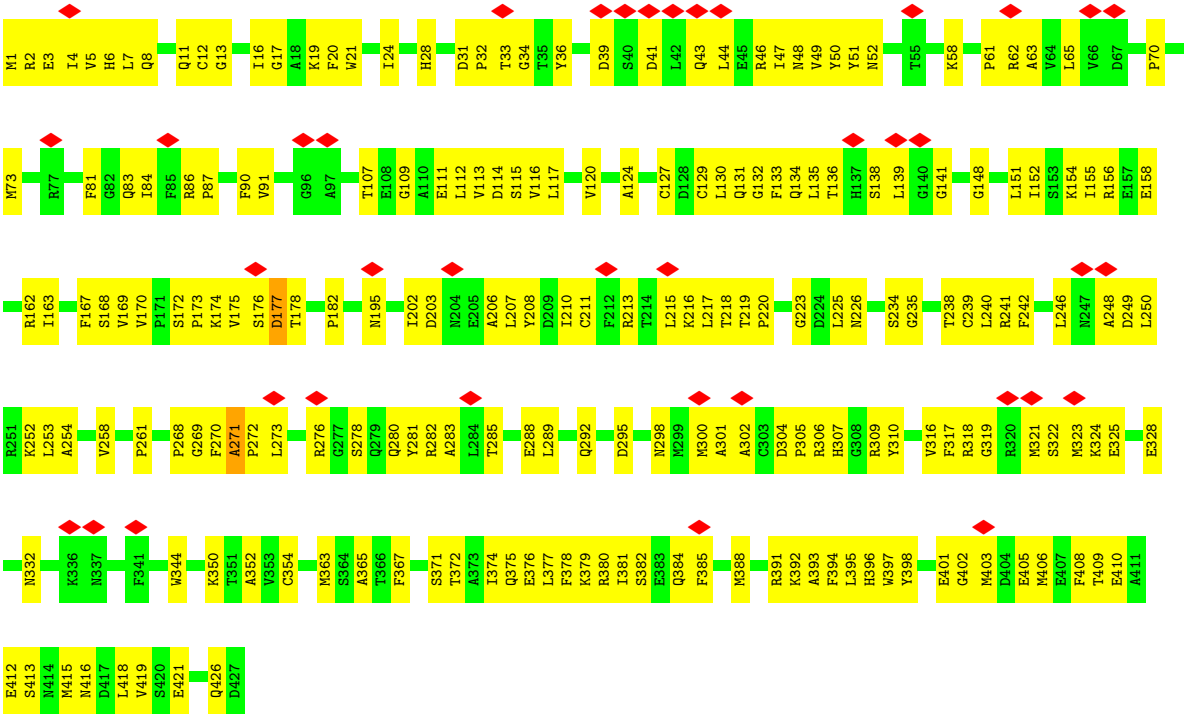




• Molecule 3: Tubulin beta-4B chain

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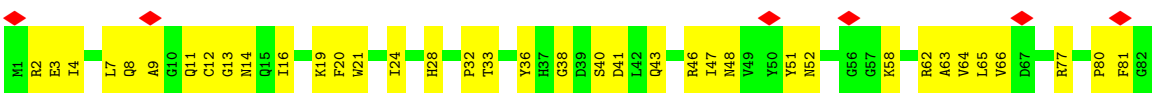


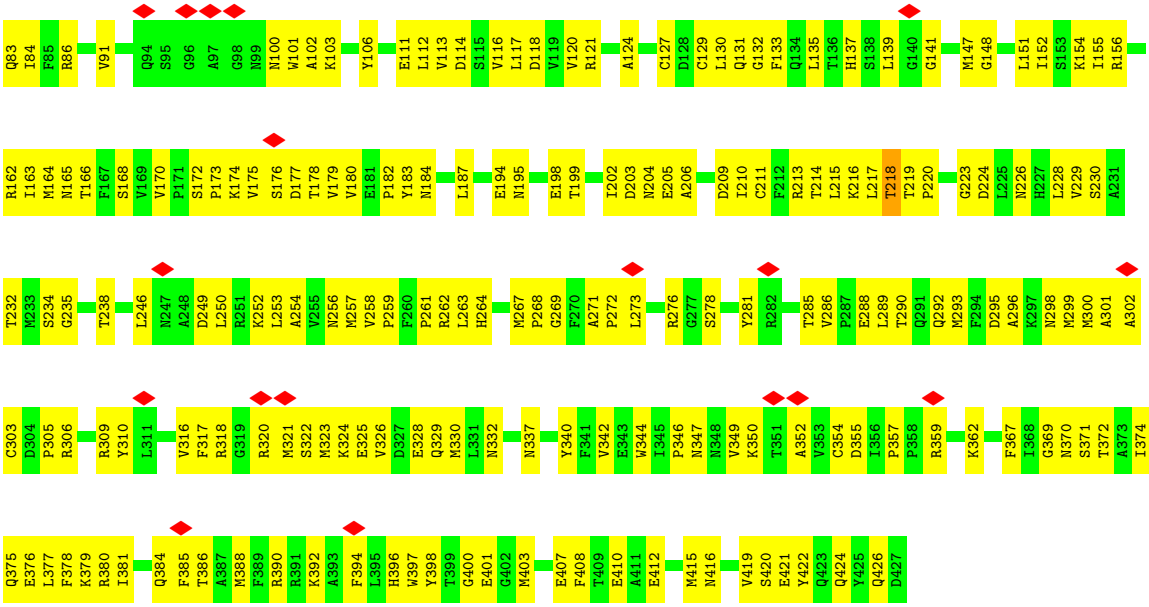


• Molecule 3: Tubulin beta-4B chain

Chain KH:



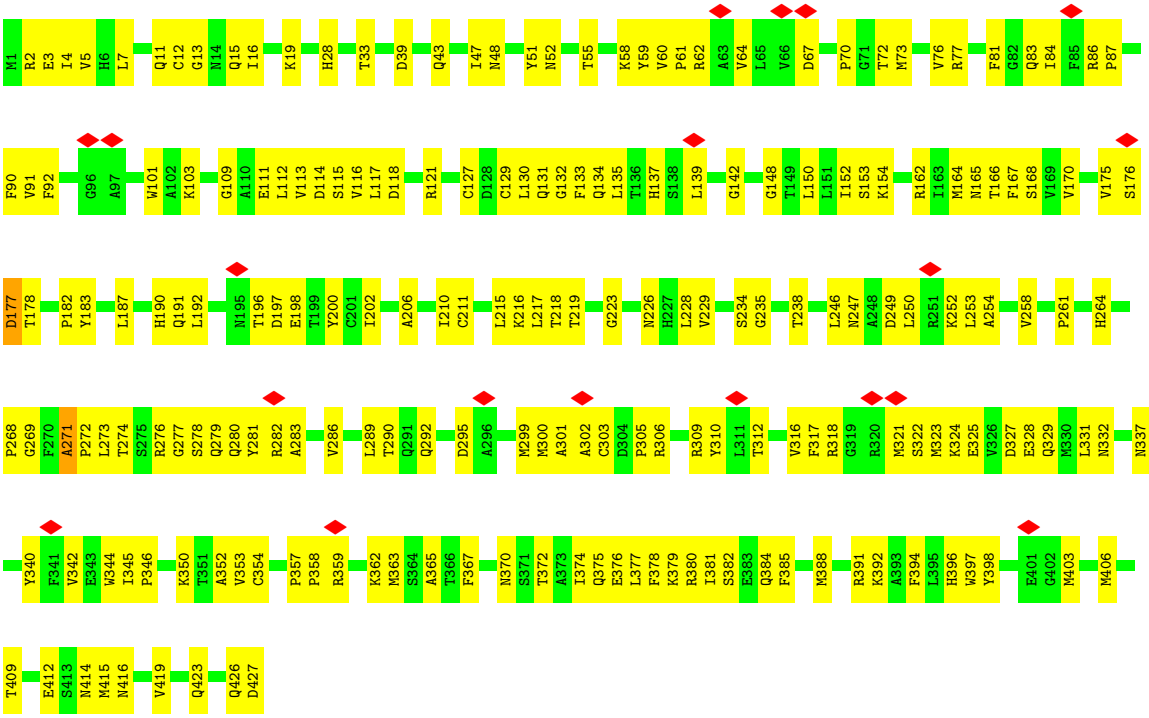




• Molecule 3: Tubulin beta-4B chain

Chain KJ:

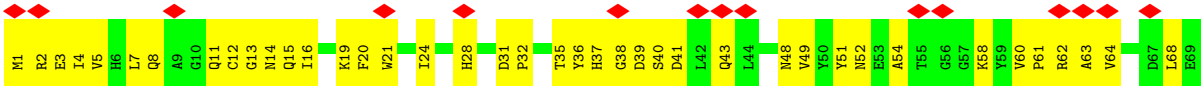


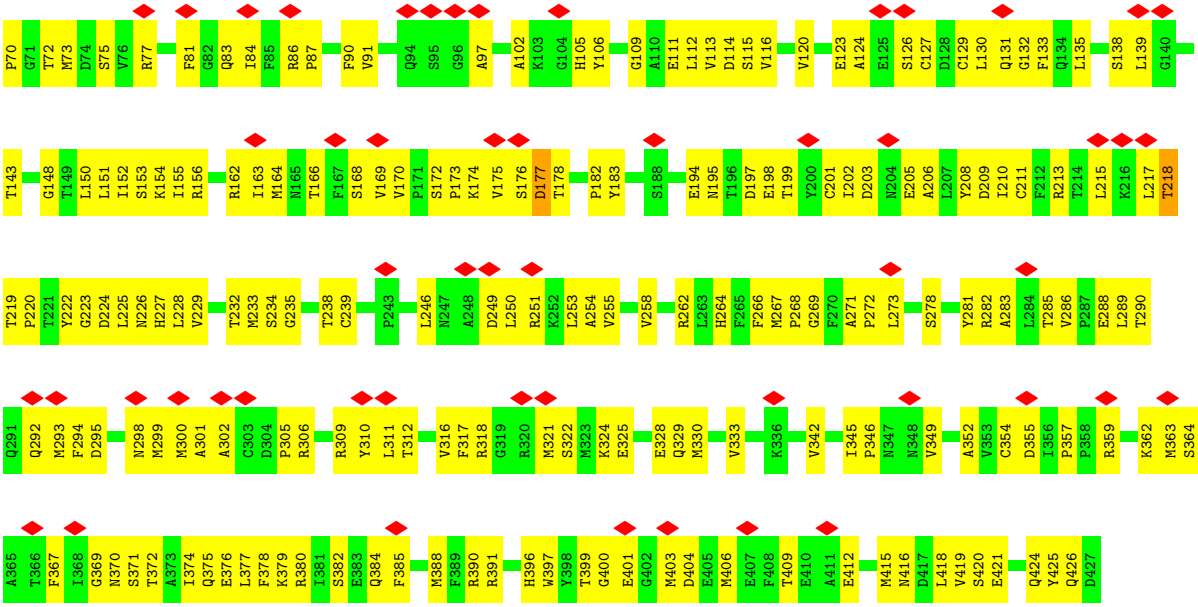


• Molecule 3: Tubulin beta-4B chain

Chain KL:



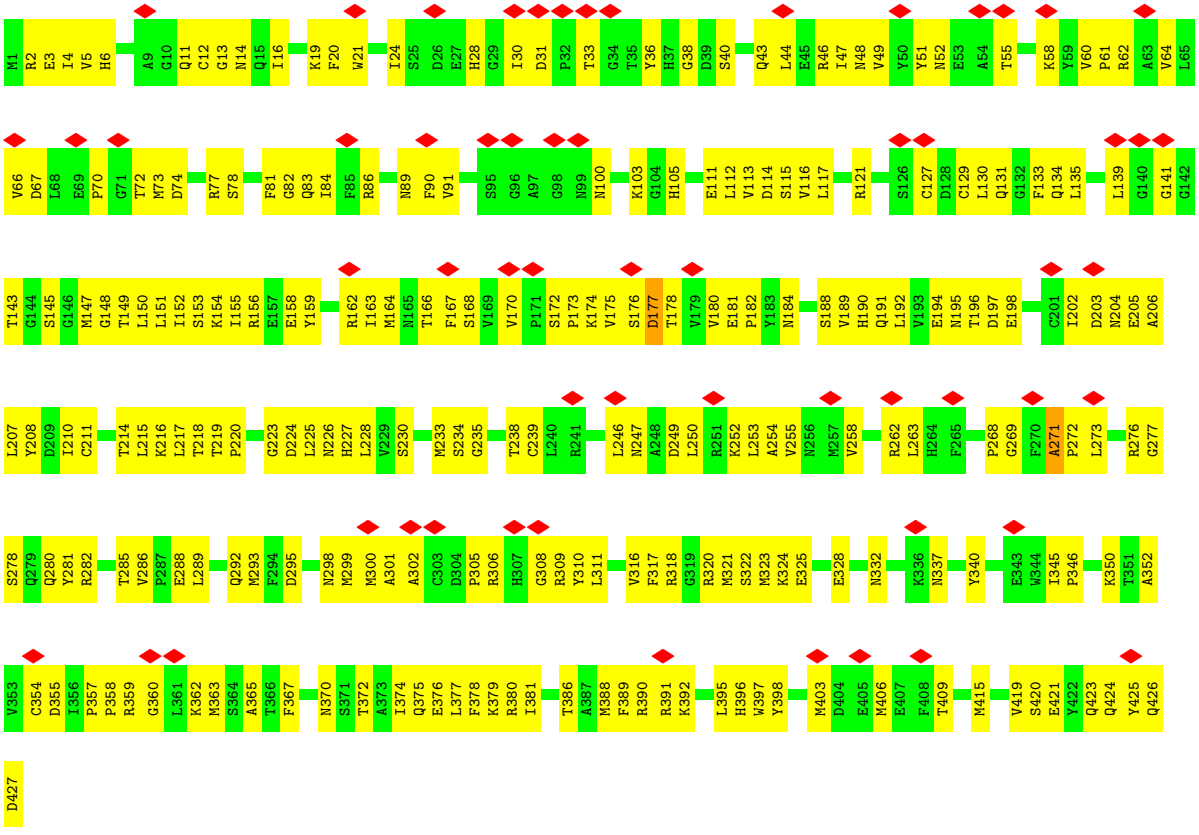




• Molecule 3: Tubulin beta-4B chain

Chain LB:

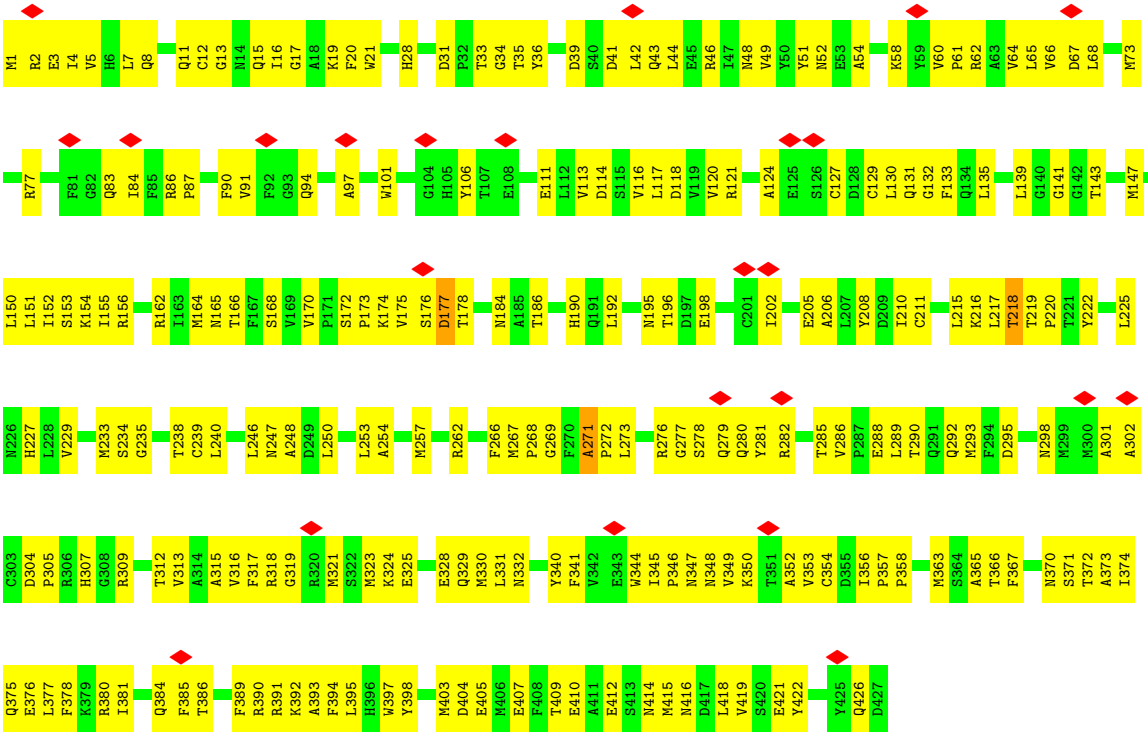




• Molecule 3: Tubulin beta-4B chain

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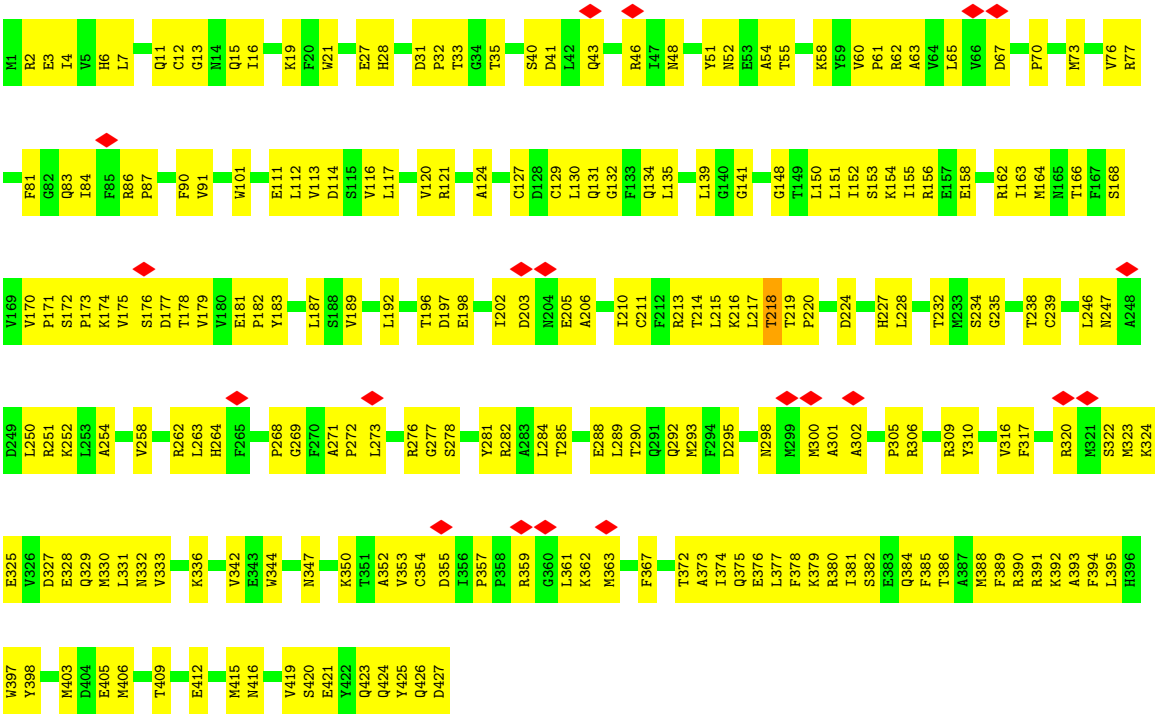




• Molecule 3: Tubulin beta-4B chain

Chain LF:

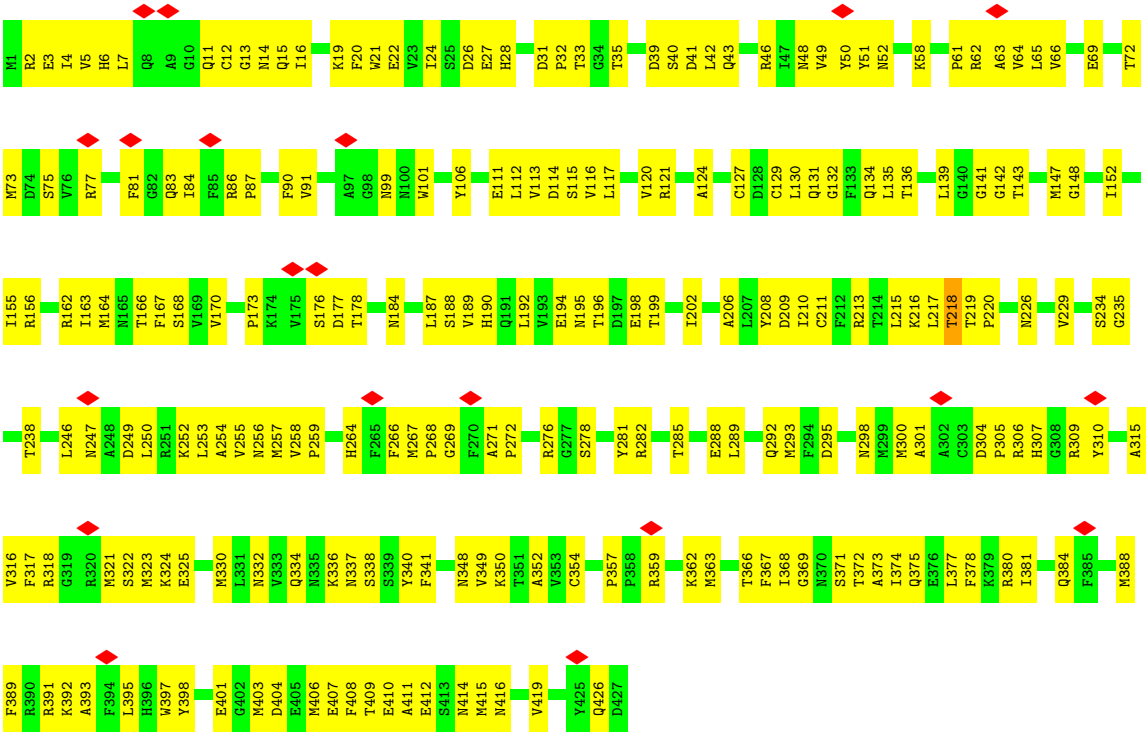




• Molecule 3: Tubulin beta-4B chain

Chain LH:

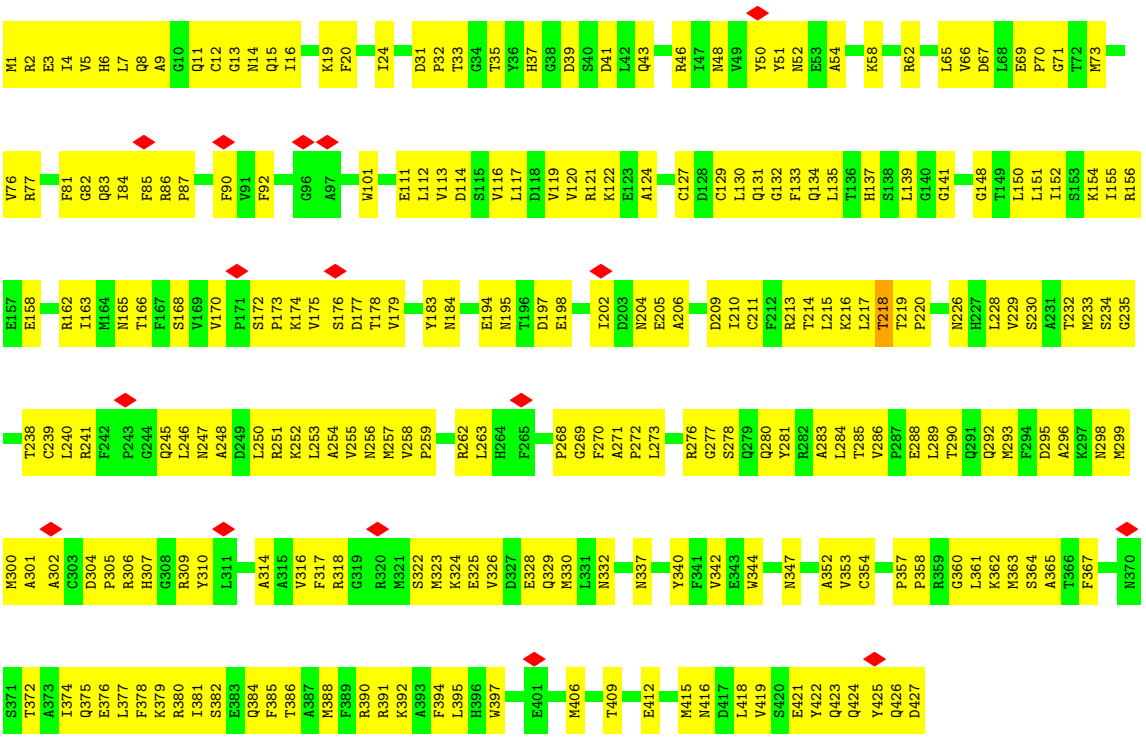




• Molecule 3: Tubulin beta-4B chain

Chain LJ:

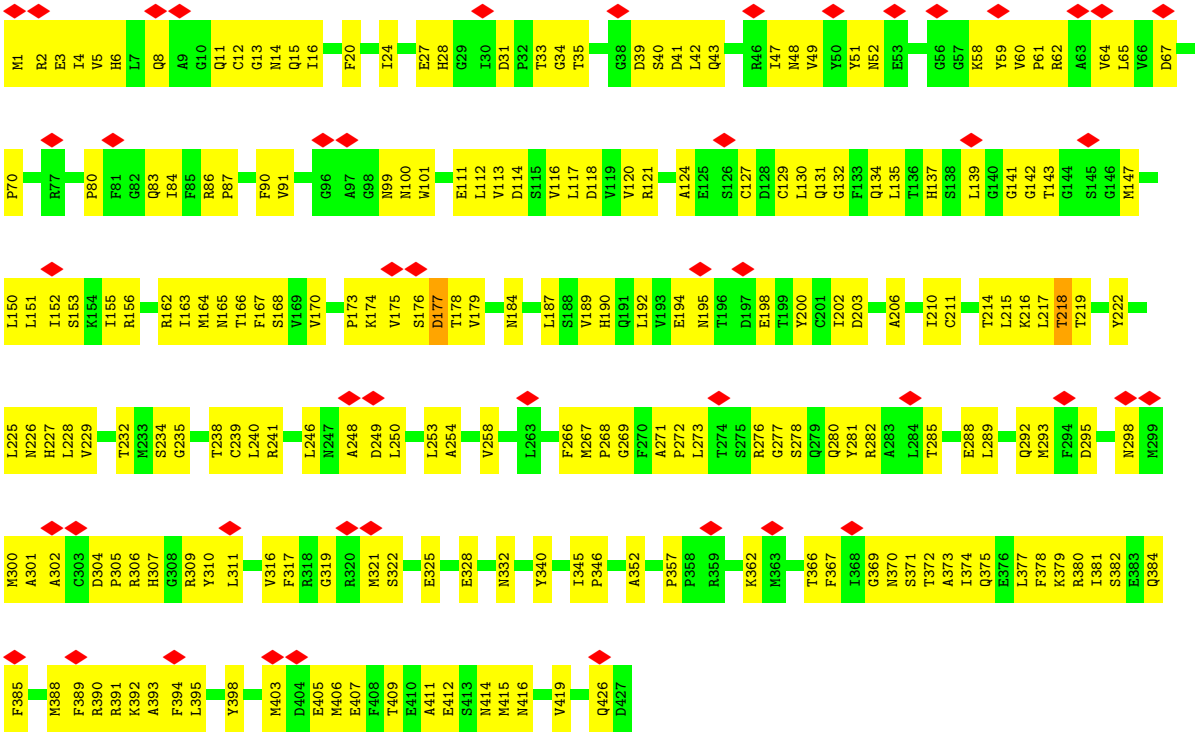




• Molecule 3: Tubulin beta-4B chain

Chain LL:

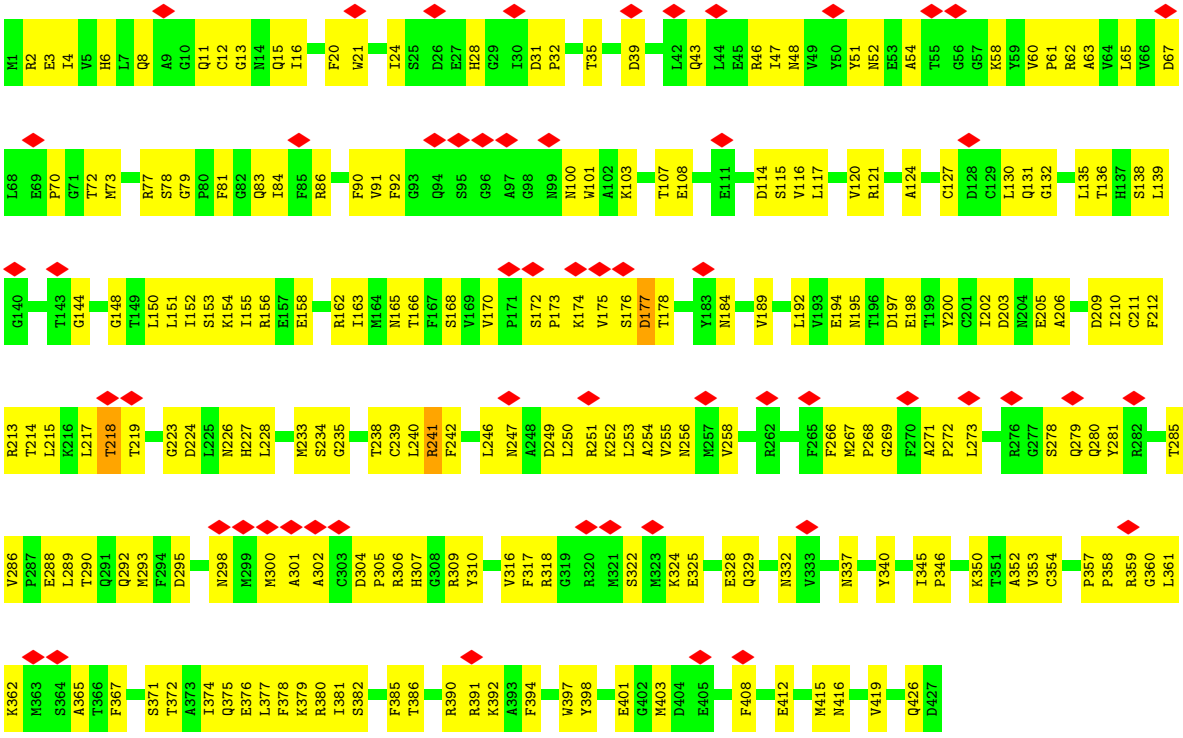




• Molecule 3: Tubulin beta-4B chain

Chain MB:

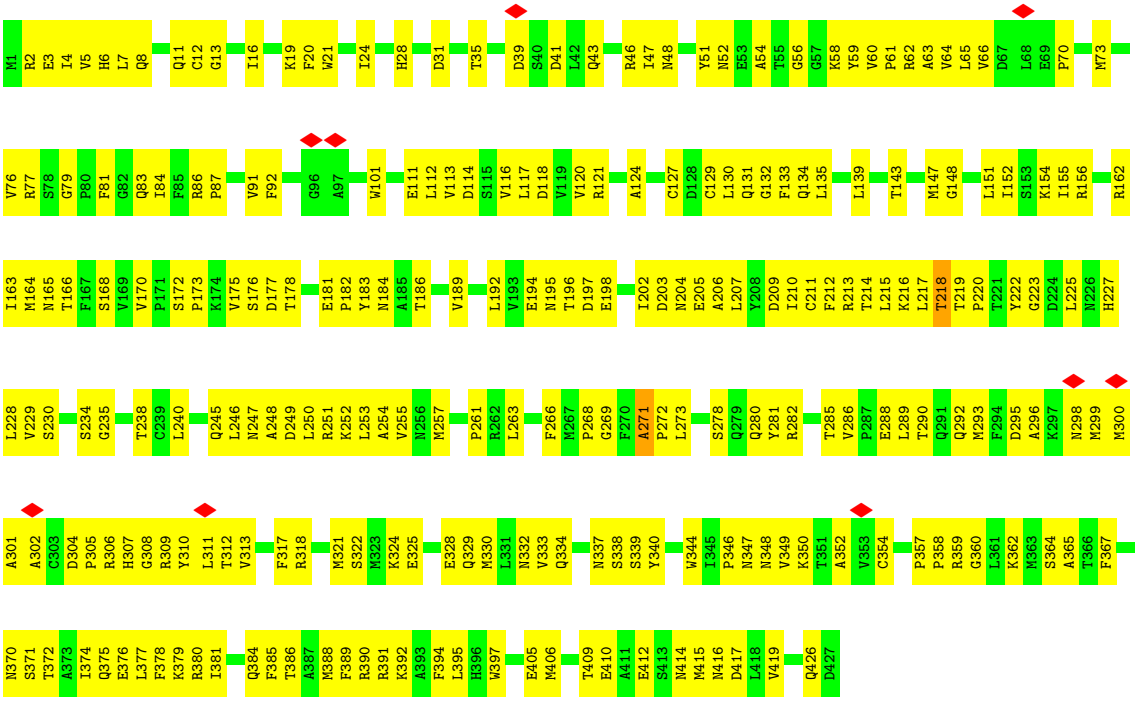




• Molecule 3: Tubulin beta-4B chain

Chain MD:

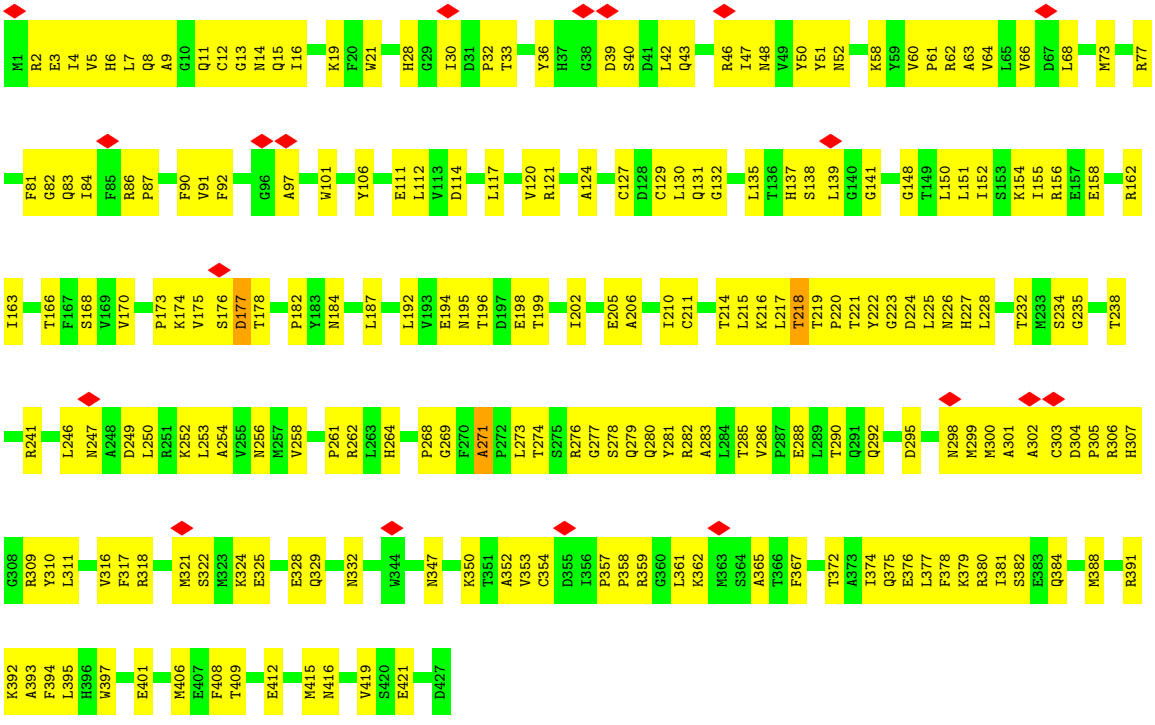




• Molecule 3: Tubulin beta-4B chain

Chain MF:

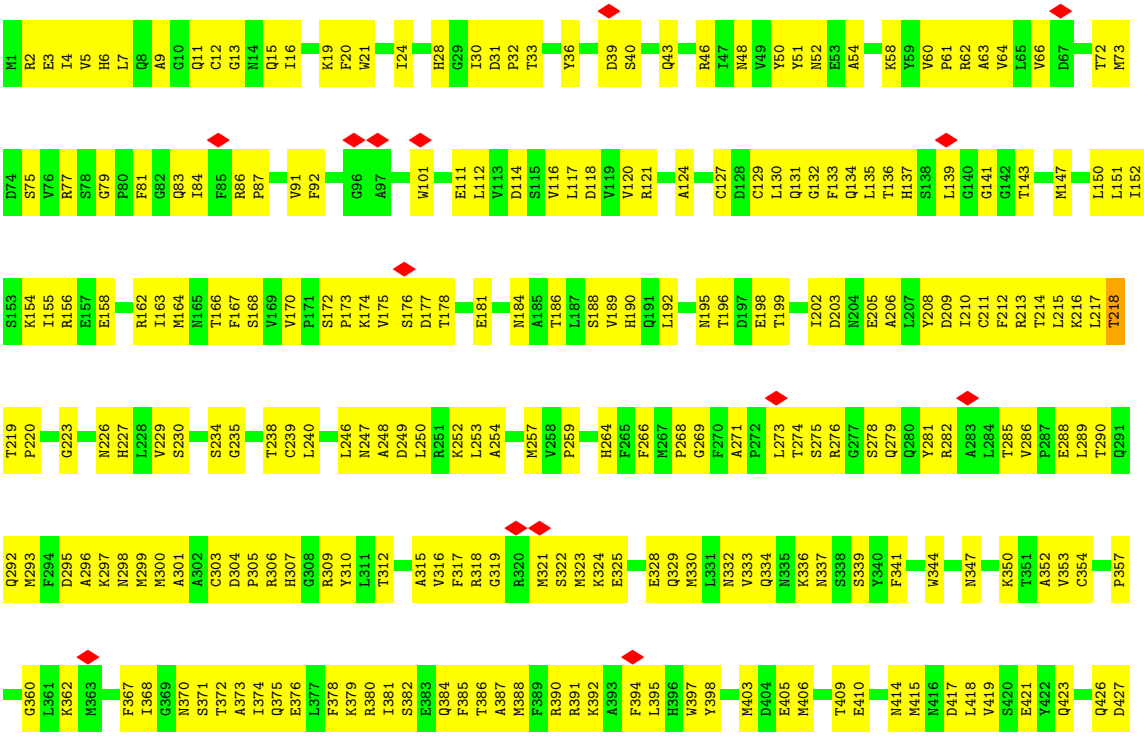




• Molecule 3: Tubulin beta-4B chain

Chain MH:

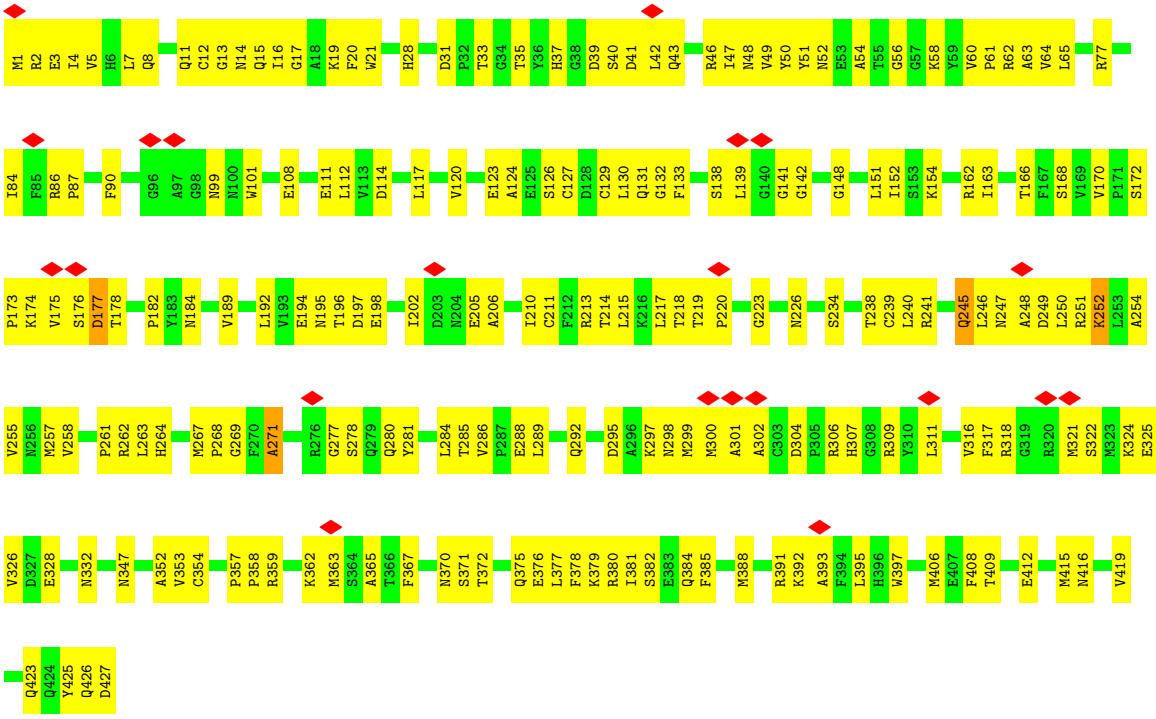




• Molecule 3: Tubulin beta-4B chain

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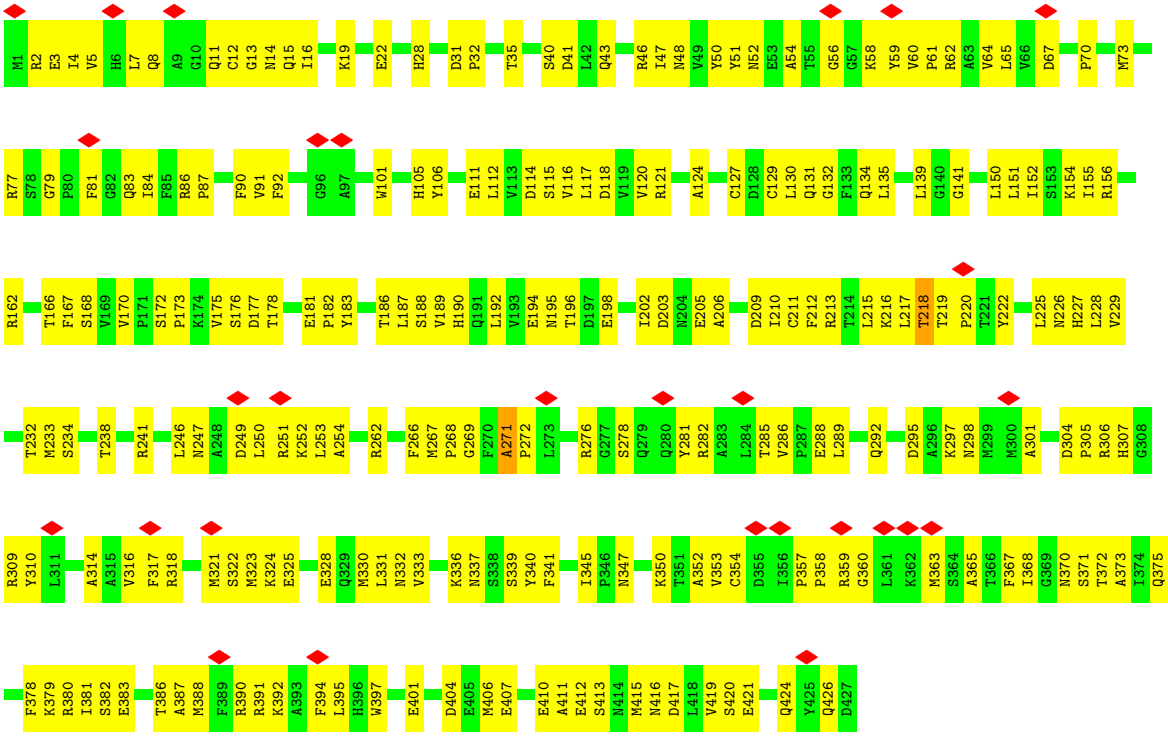




• Molecule 3: Tubulin beta-4B chain

Chain ML:

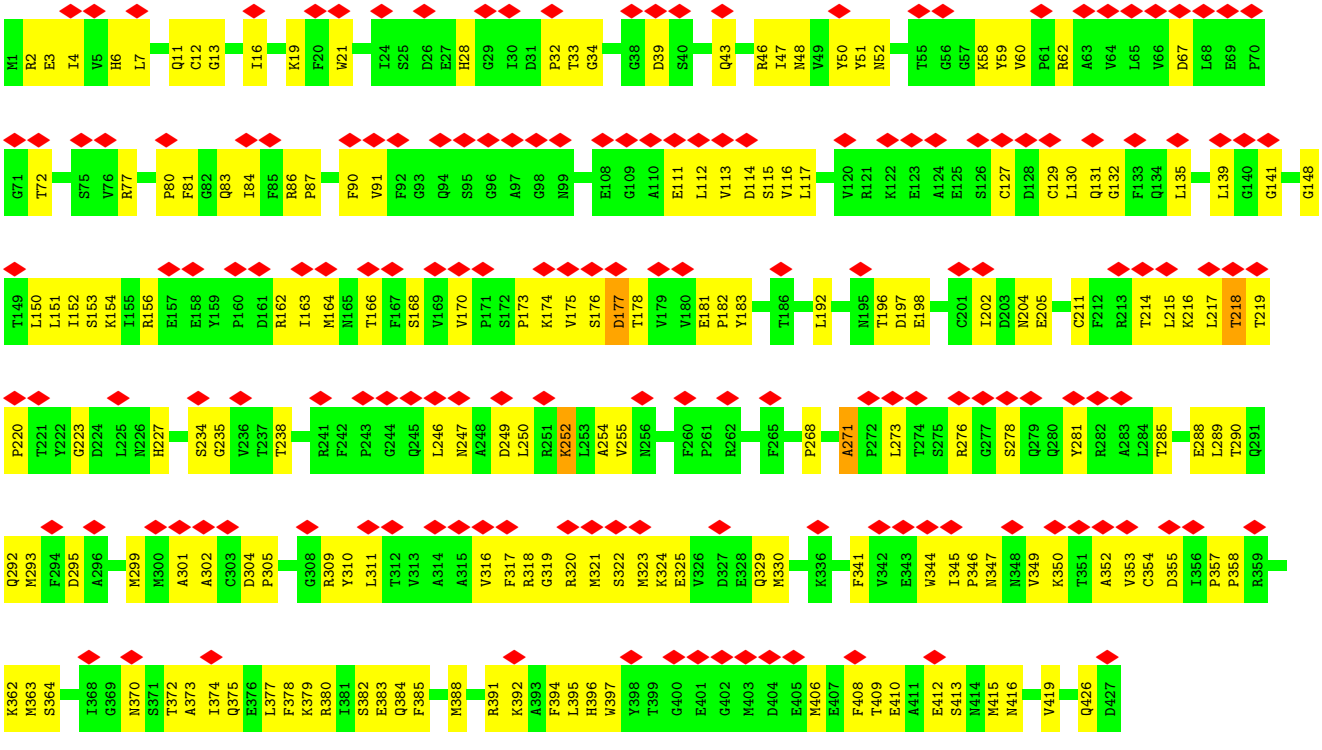




• Molecule 3: Tubulin beta-4B chain

Chain NB:

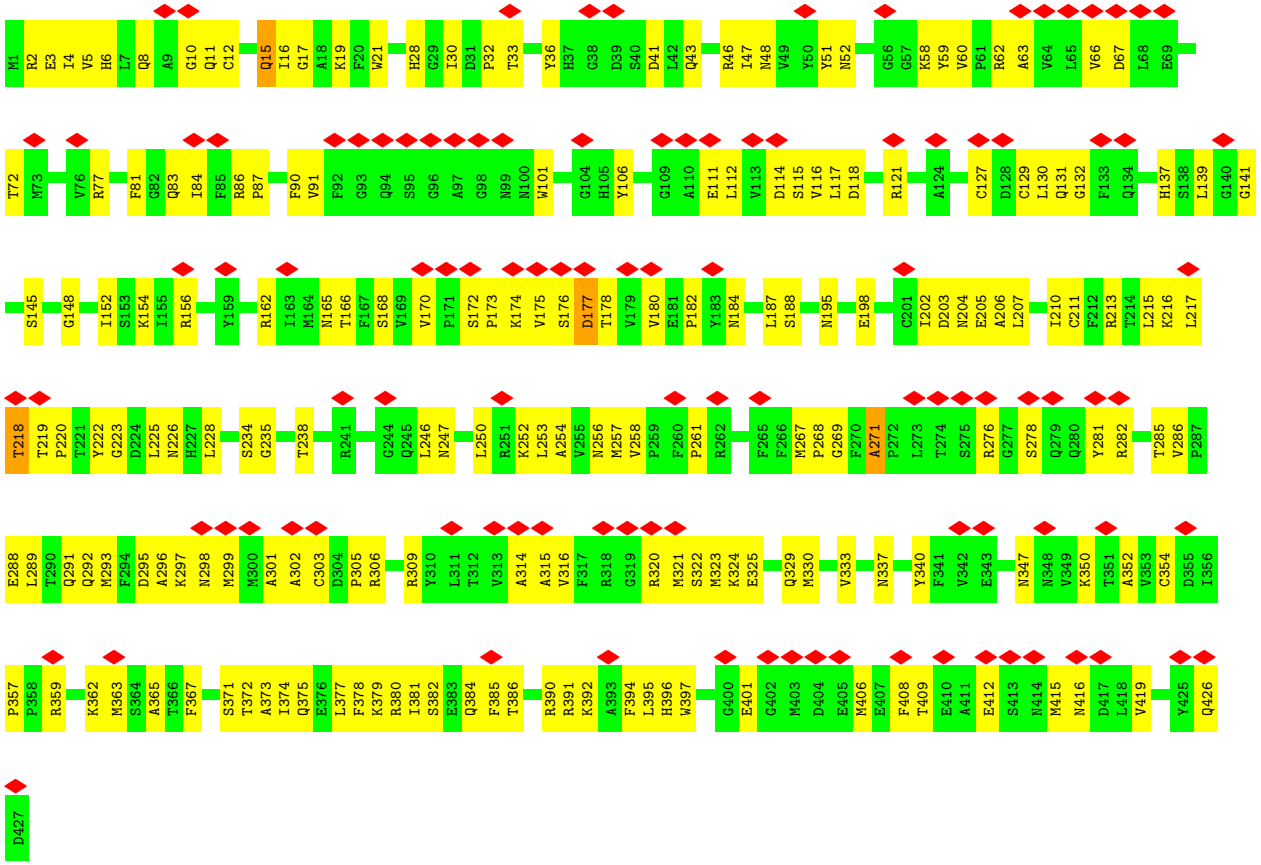




• Molecule 3: Tubulin beta-4B chain

Chain ND:

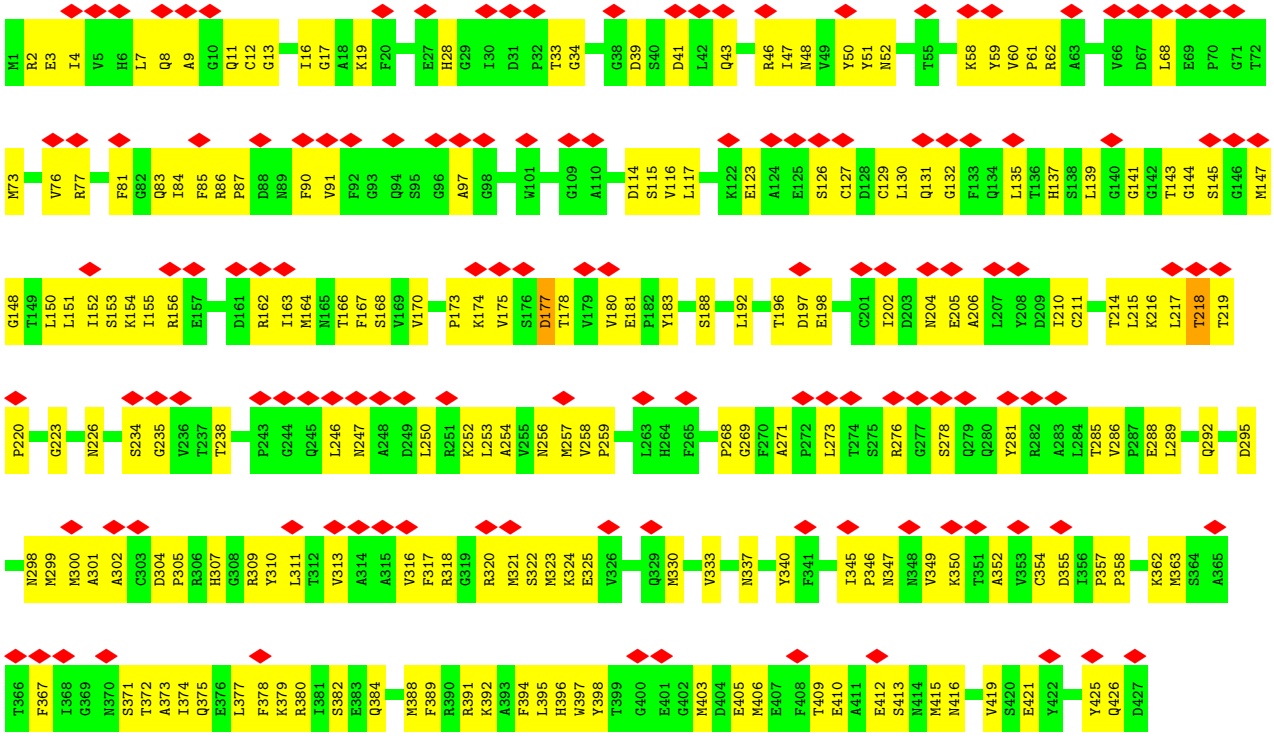




• Molecule 3: Tubulin beta-4B chain

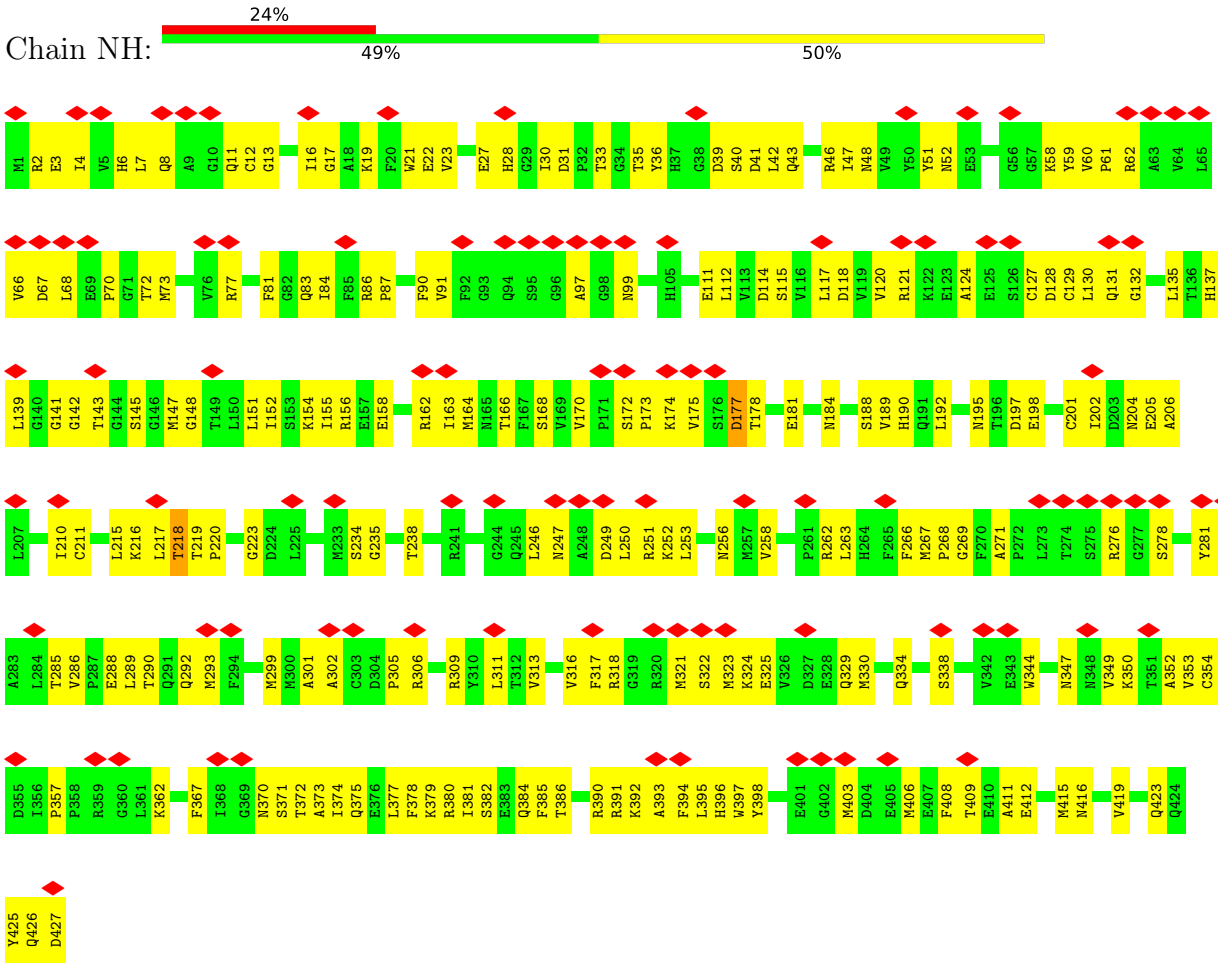
Chain NF:





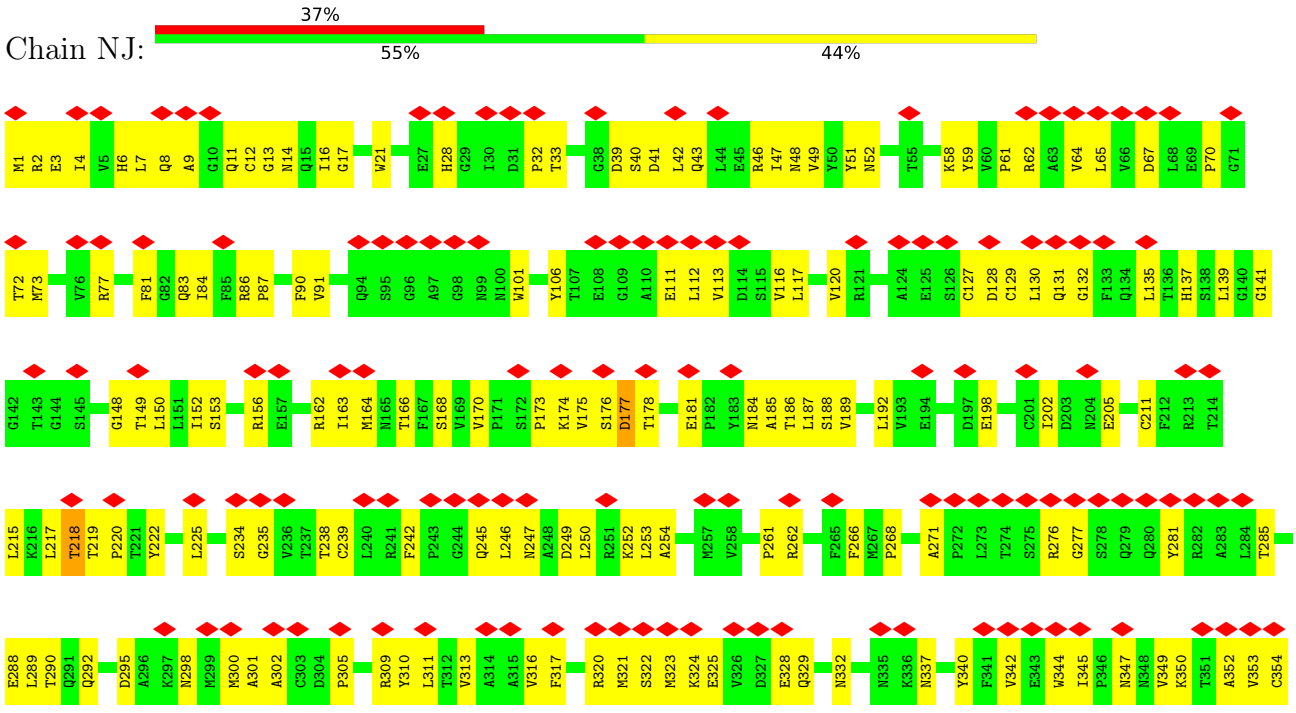
• Molecule 3: Tubulin beta-4B chain

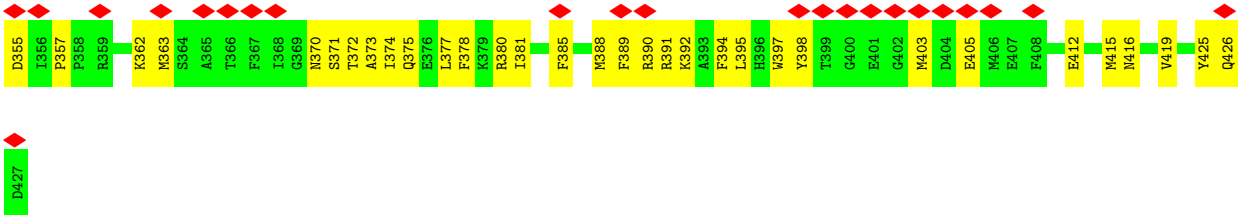
Chain NH:



• Molecule 3: Tubulin beta-4B chain

Chain NJ:

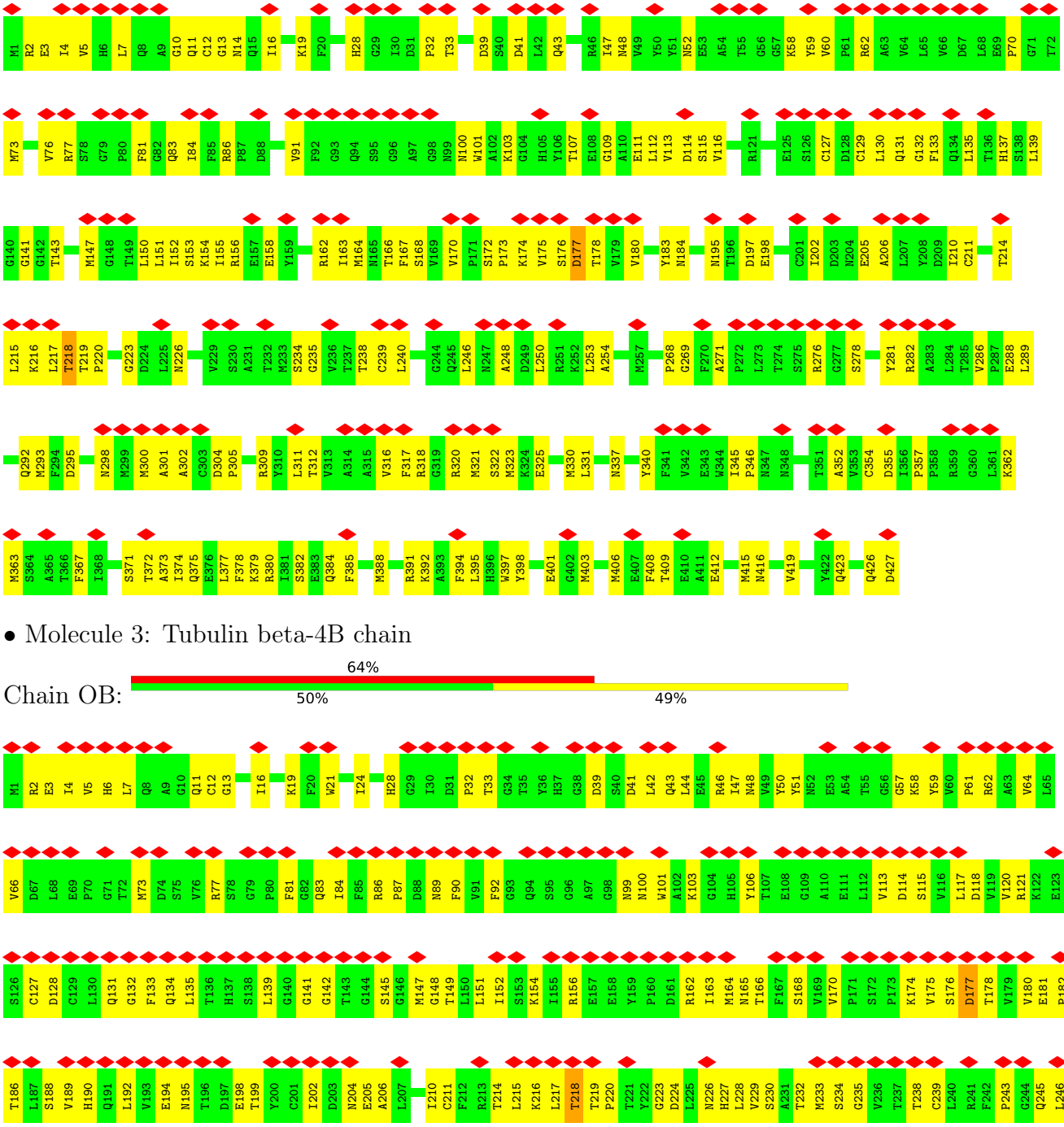




• Molecule 3: Tubulin beta-4B chain

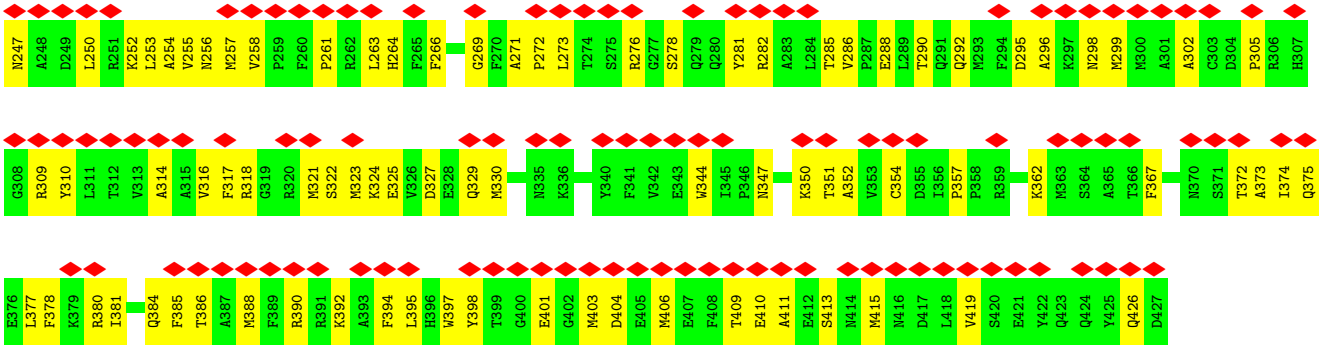
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• Molecule 3: Tubulin beta-4B chain

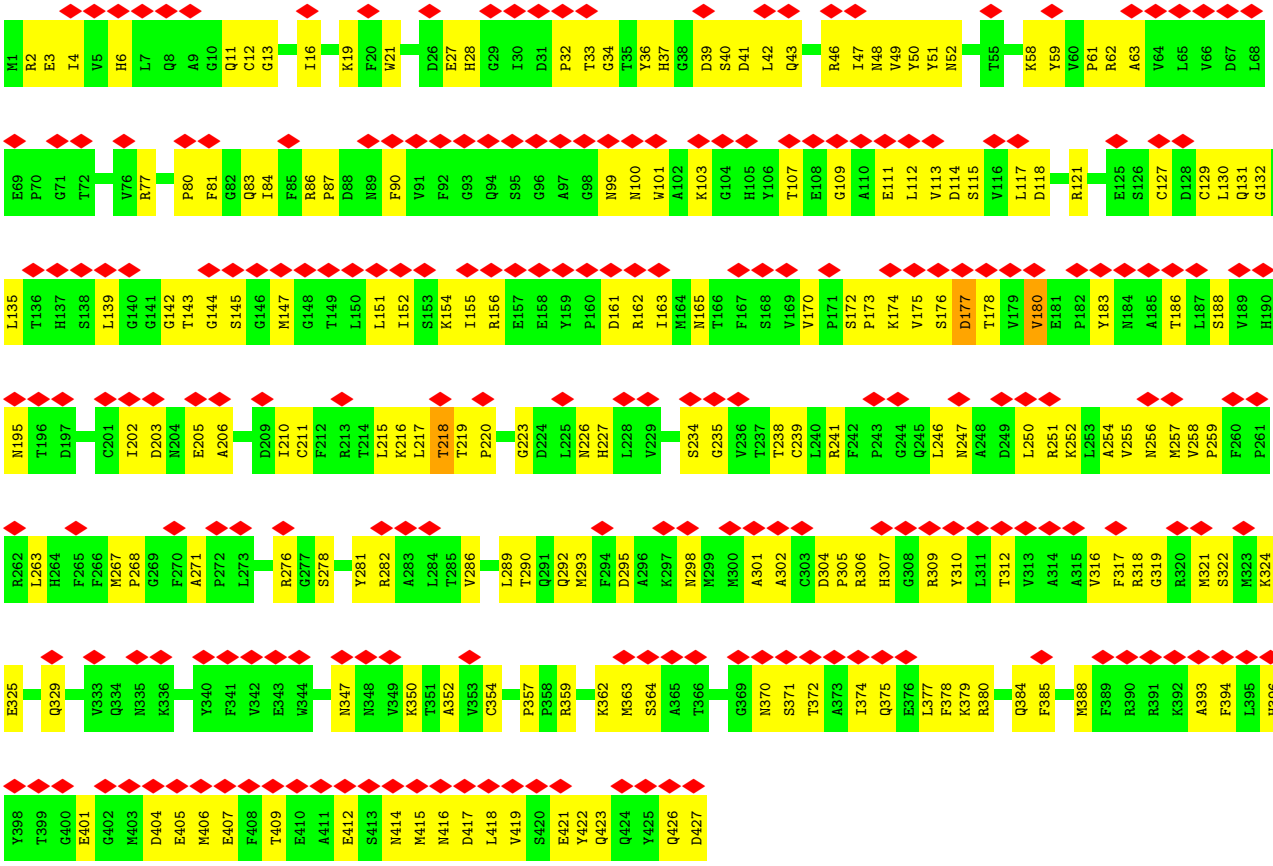
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• Molecule 3: Tubulin beta-4B chain

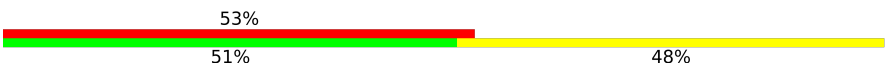
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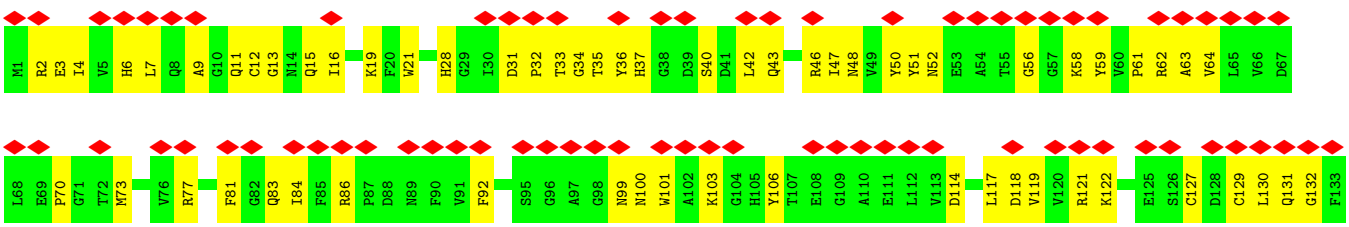


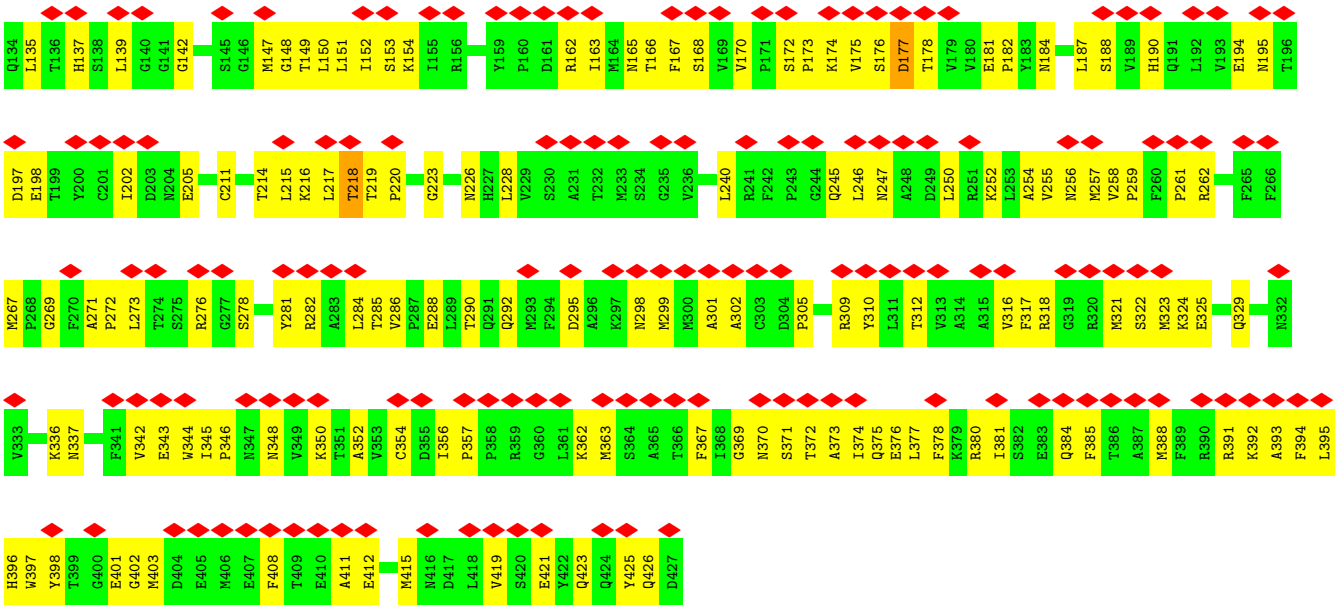


• Molecule 3: Tubulin beta-4B chain

Chain OF:



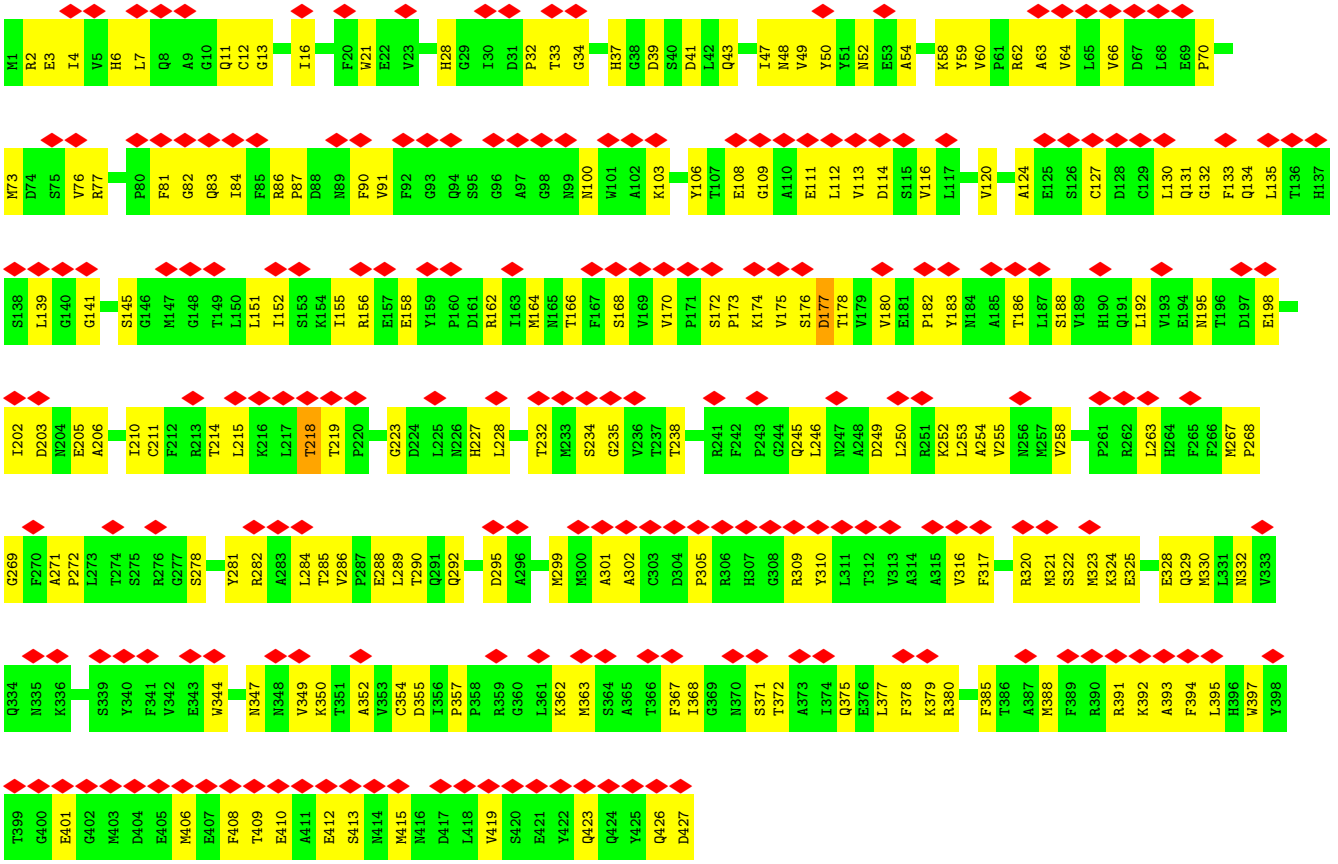




• Molecule 3: Tubulin beta-4B chain

Chain OH:

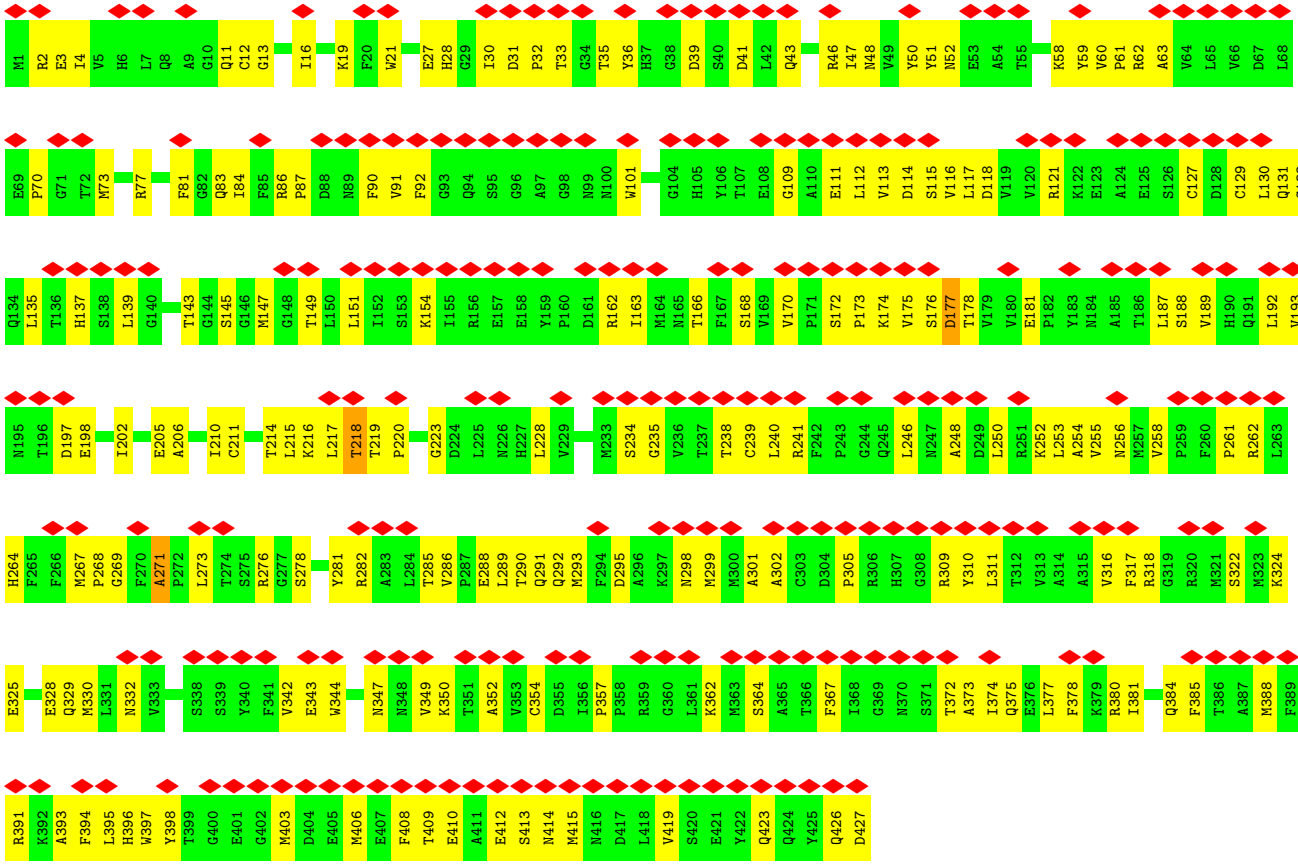




• Molecule 3: Tubulin beta-4B chain

Chain OJ:

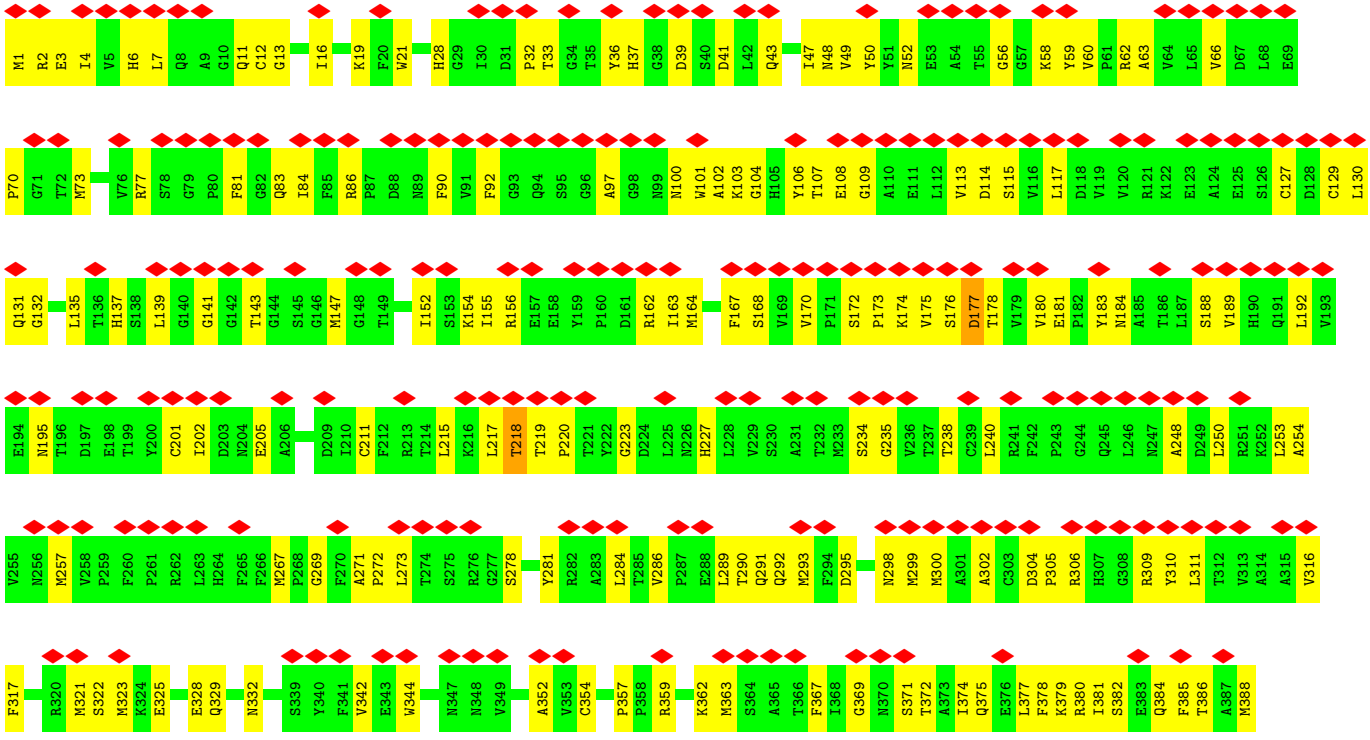


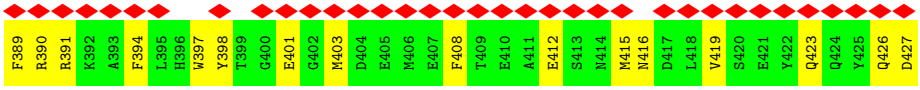


• Molecule 3: Tubulin beta-4B chain

Chain OL:







• Molecule 3: Tubulin beta-4B chain

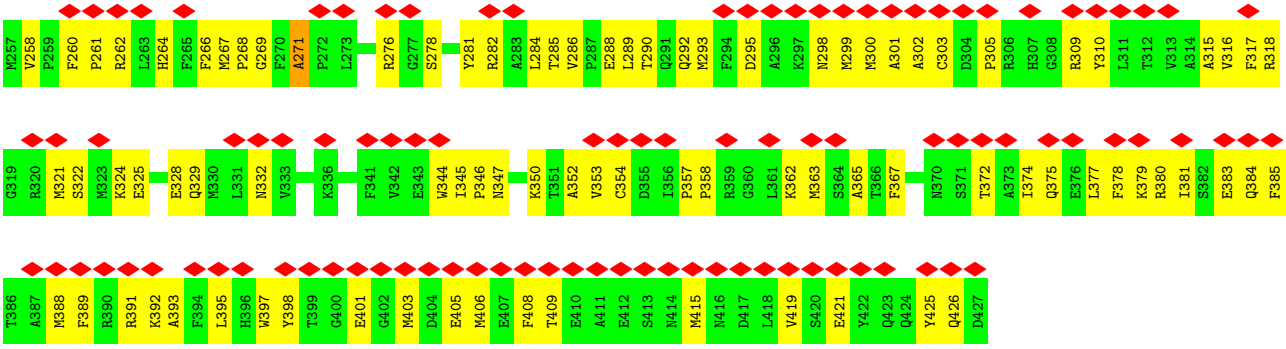
Chain PB:





• Molecule 3: Tubulin beta-4B chain

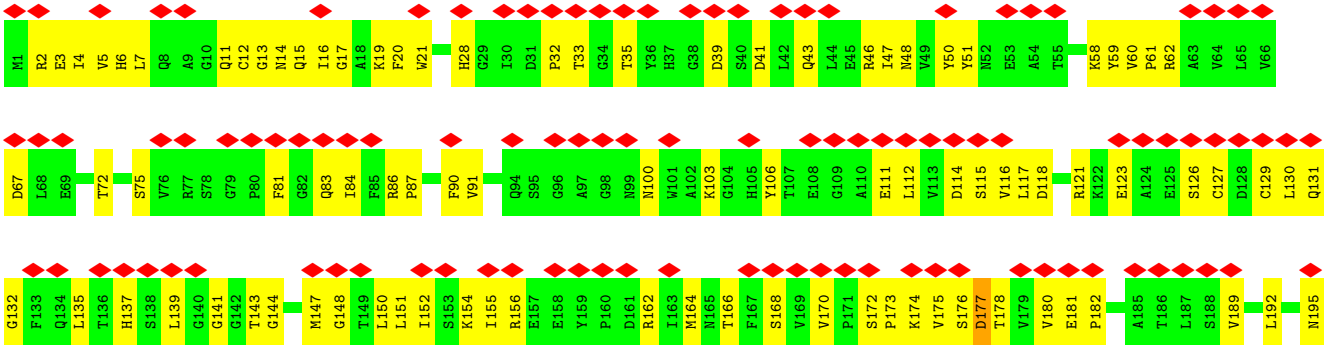
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• Molecule 3: Tubulin beta-4B chain

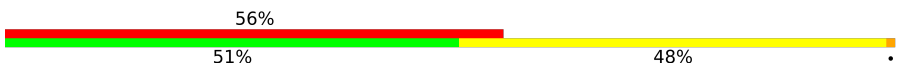
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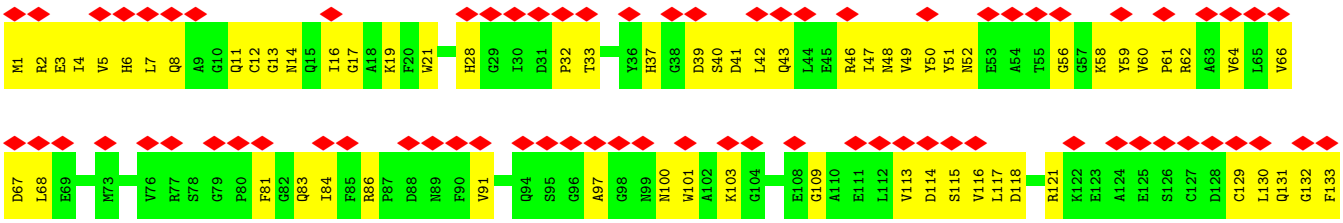


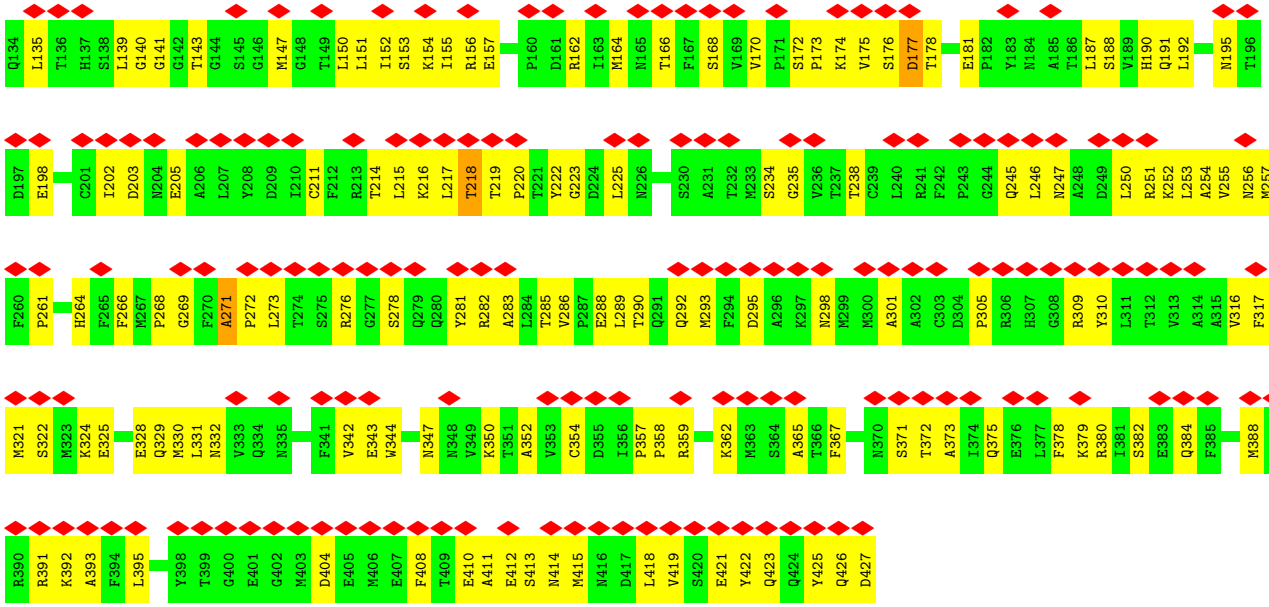


• Molecule 3: Tubulin beta-4B chain

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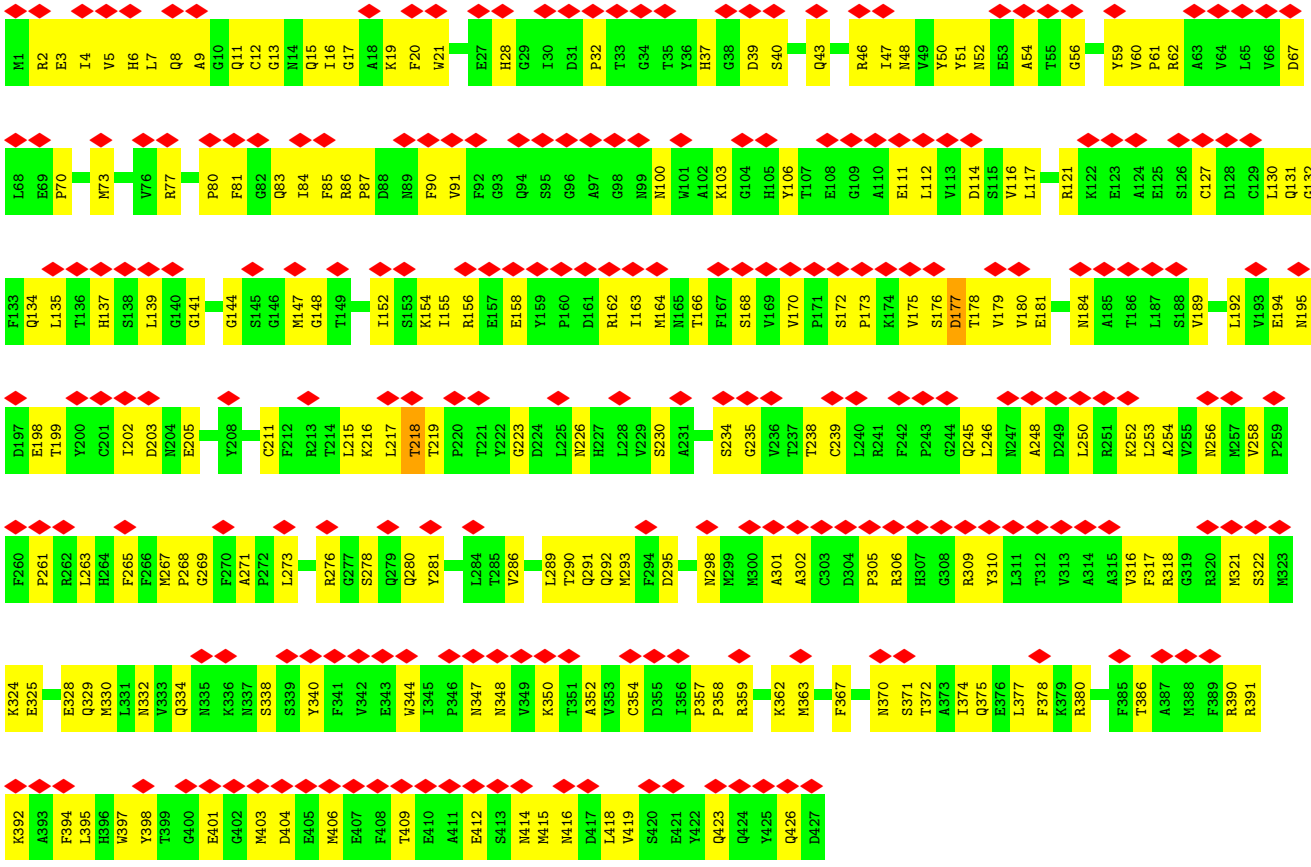




• Molecule 3: Tubulin beta-4B chain

Chain PJ:

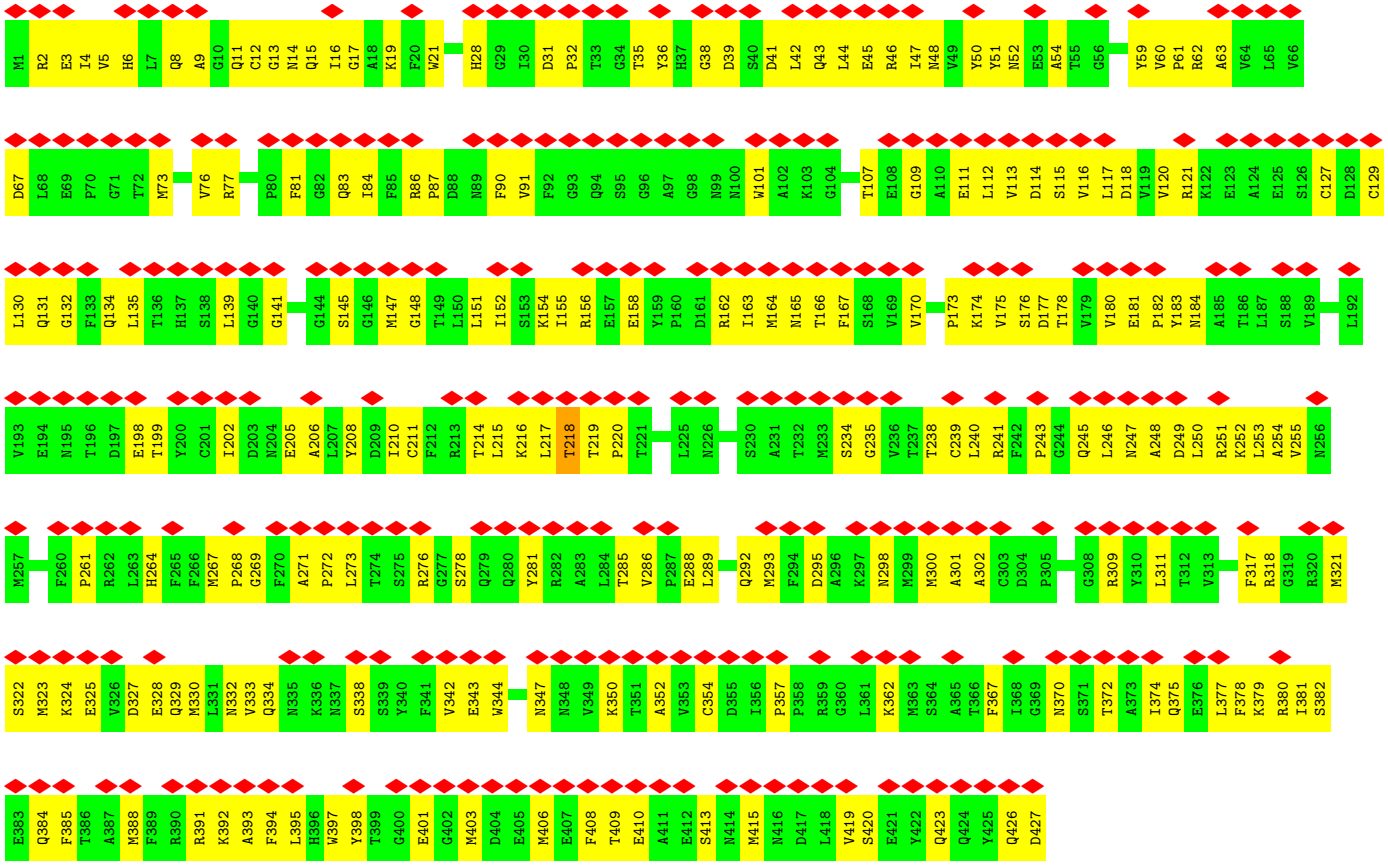




• Molecule 3: Tubulin beta-4B chain

Chain PL:

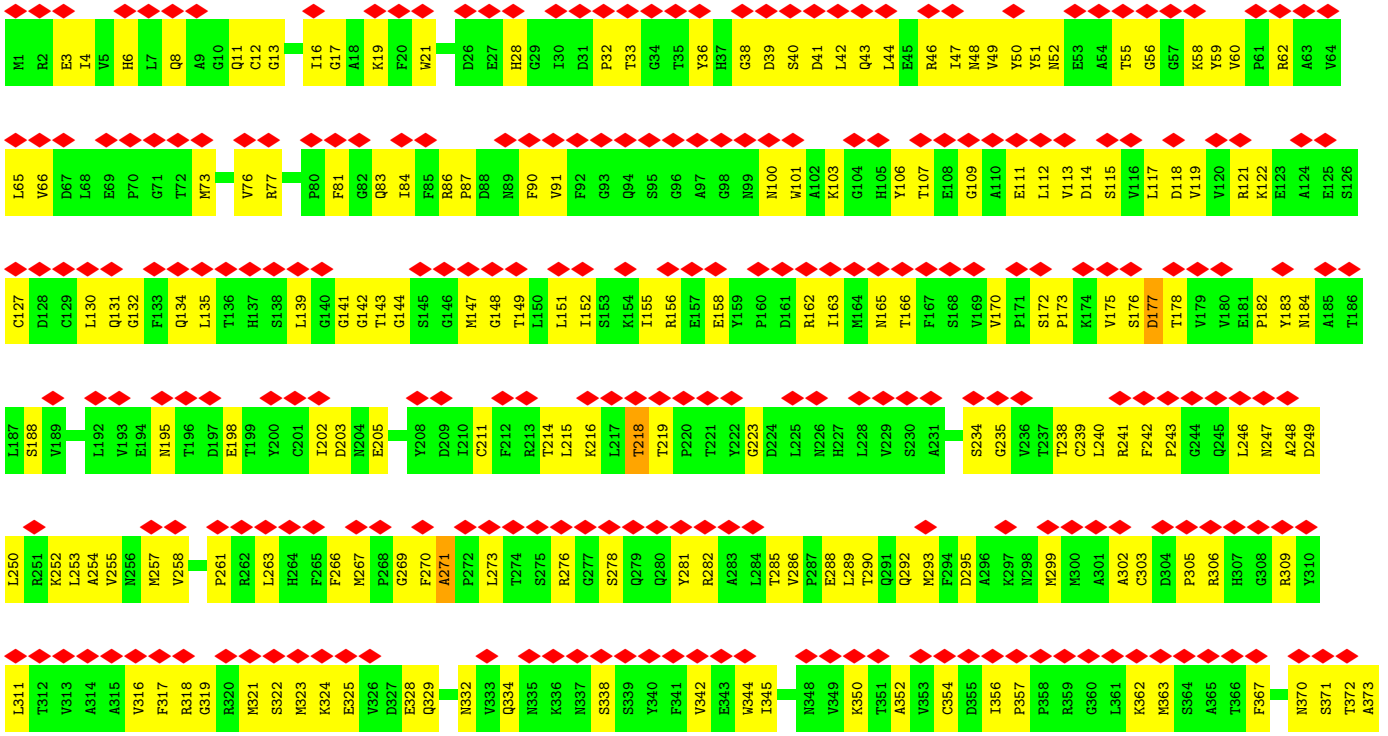


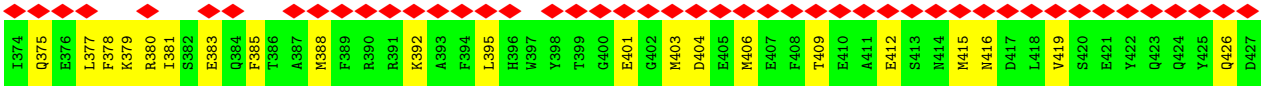


• Molecule 3: Tubulin beta-4B chain

Chain QB:







• Molecule 3: Tubulin beta-4B chain

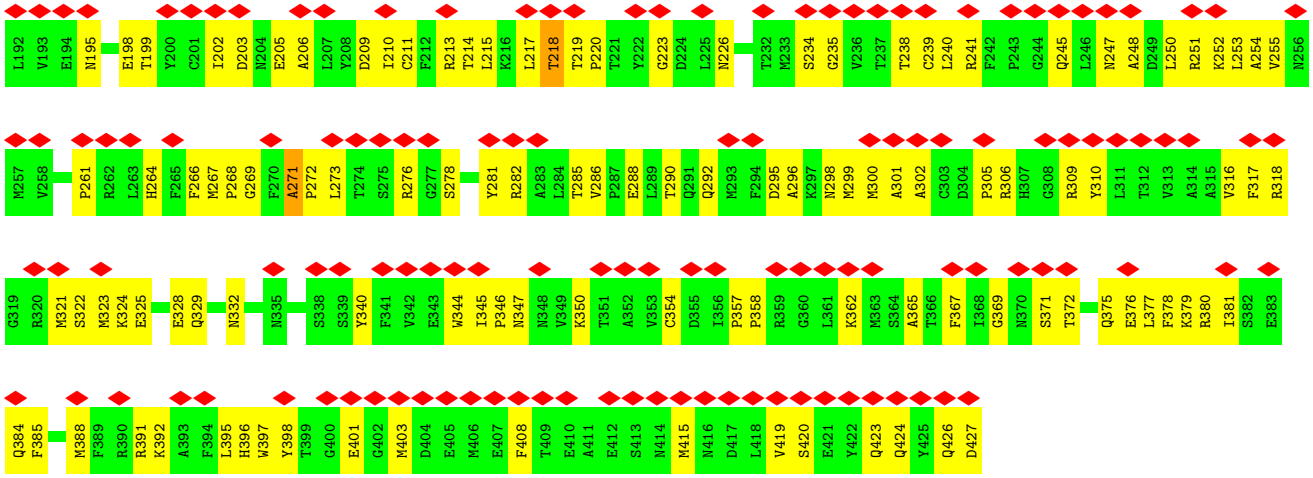
Chain QD:





• Molecule 3: Tubulin beta-4B chain

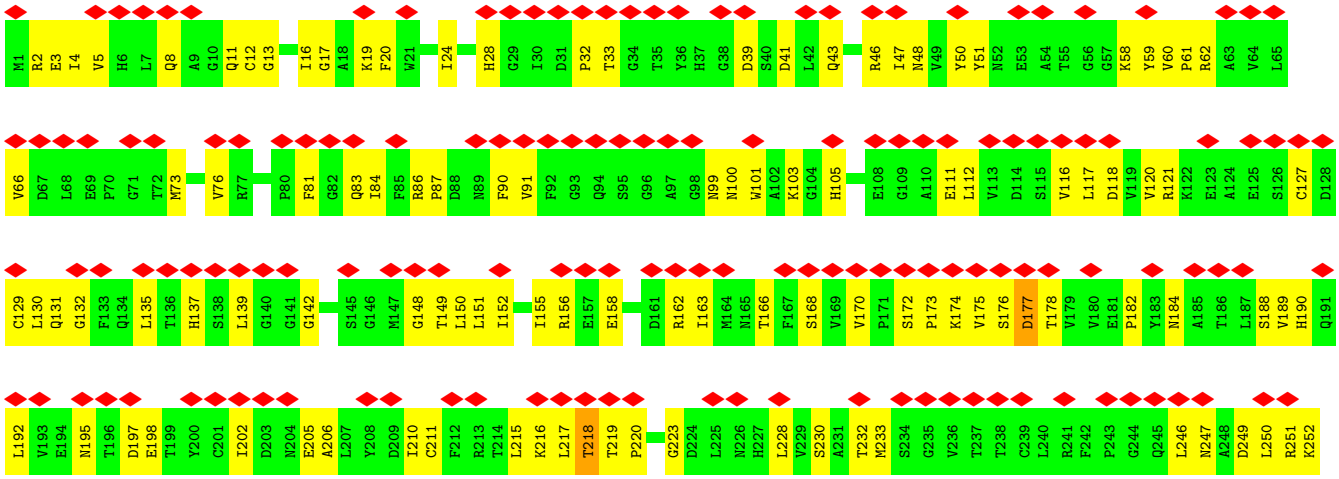
Chain QF:



• Molecule 3: Tubulin beta-4B chain

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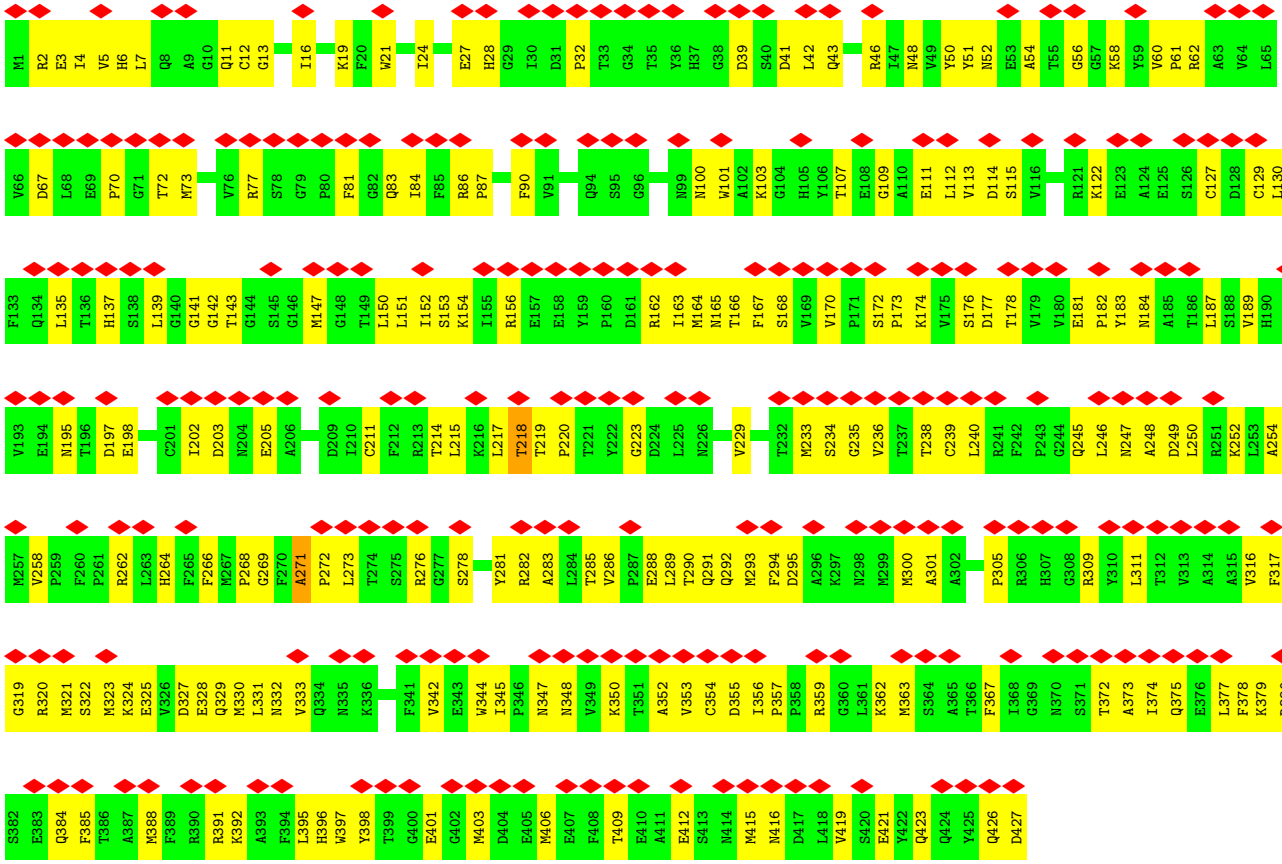




• Molecule 3: Tubulin beta-4B chain

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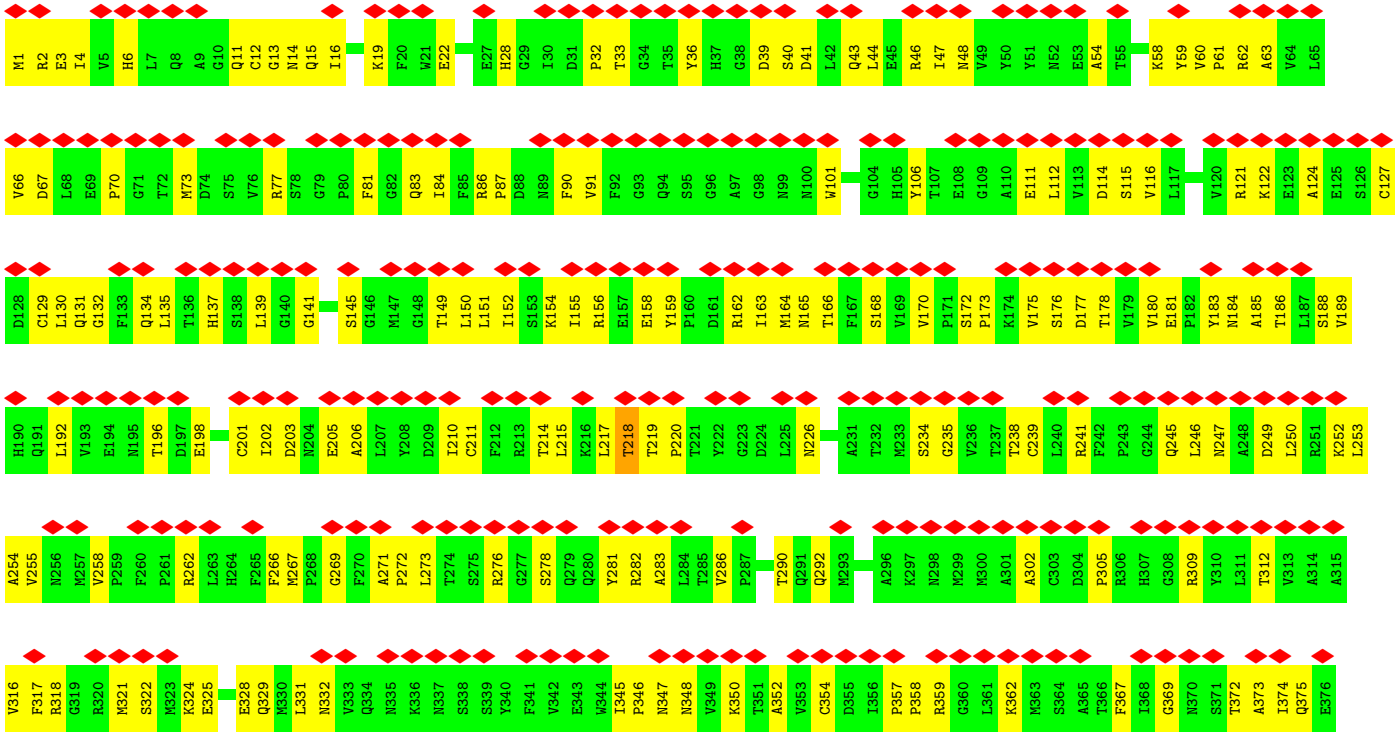


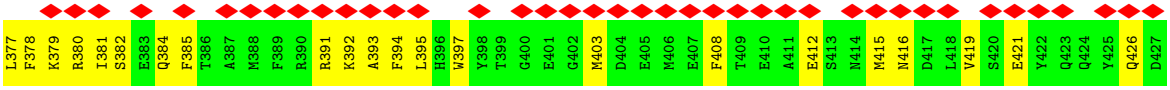


- Molecule 3: Tubulin beta-4B chain

Chain QL:



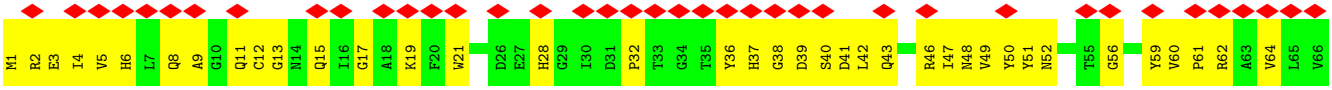


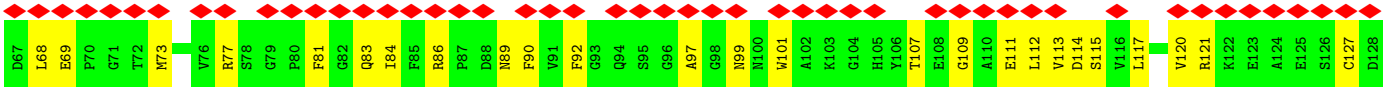


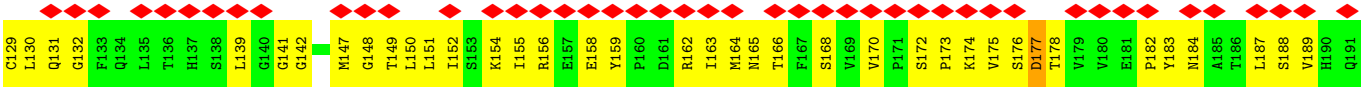
• Molecule 3: Tubulin beta-4B chain

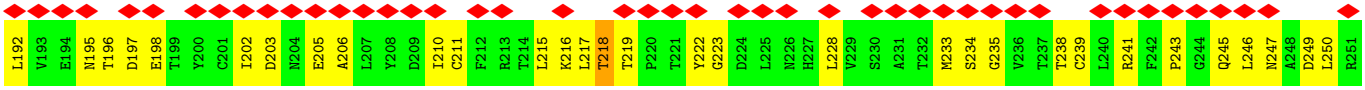
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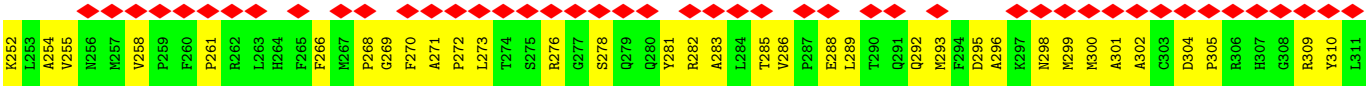


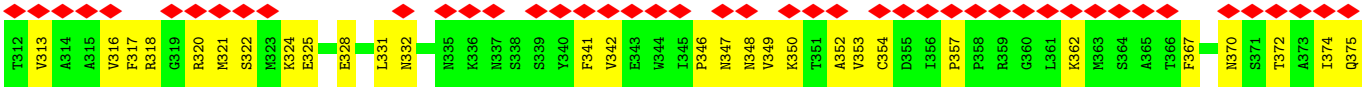


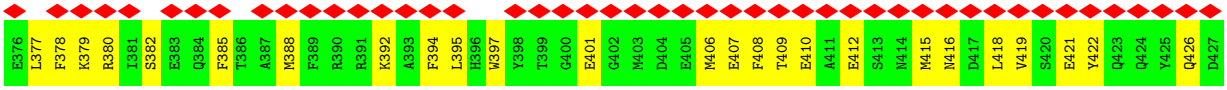






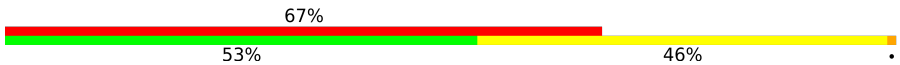


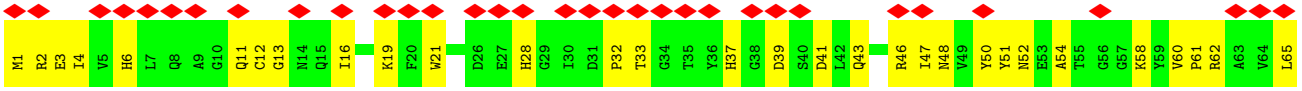


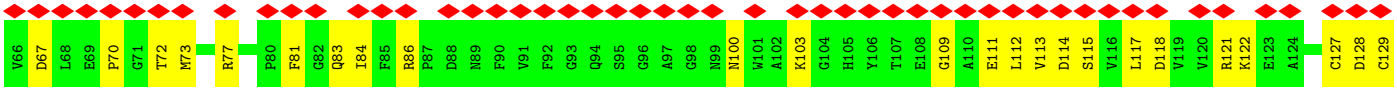


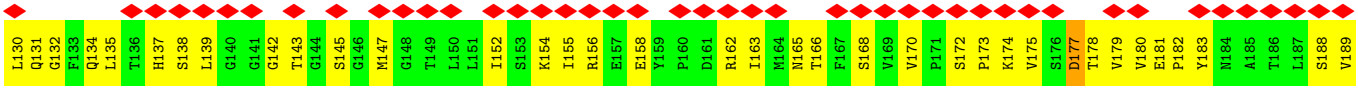
• Molecule 3: Tubulin beta-4B chain

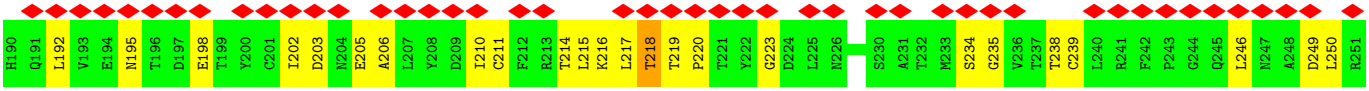
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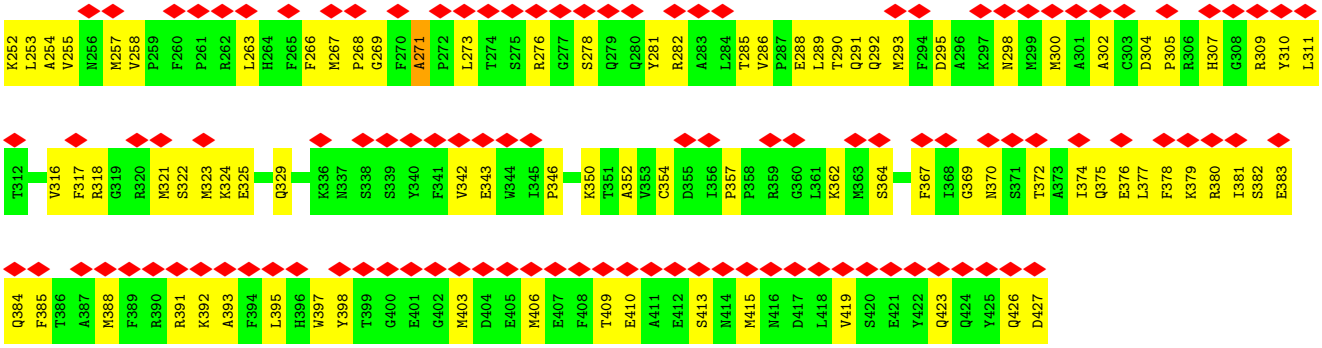








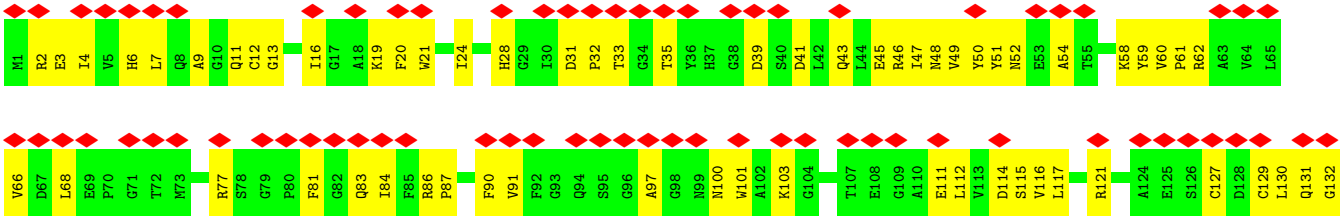




• Molecule 3: Tubulin beta-4B chain

Chain RF:

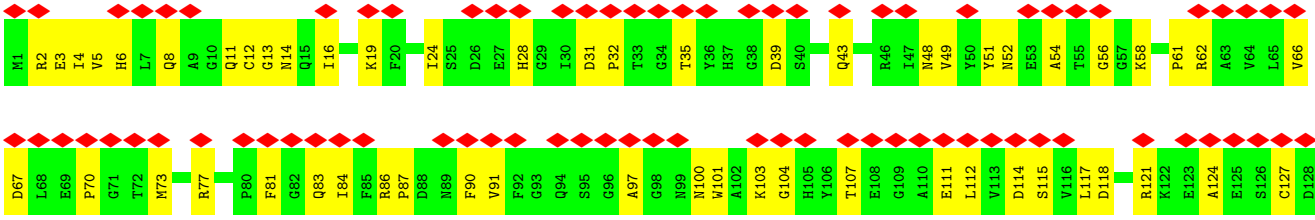


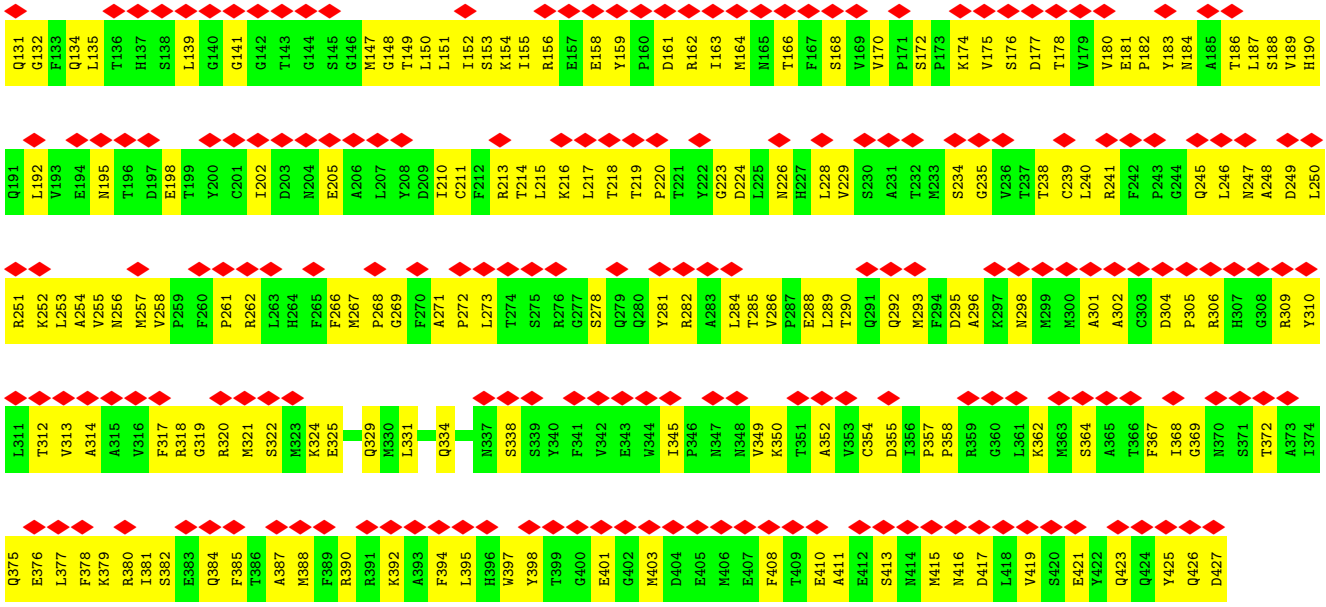


• Molecule 3: Tubulin beta-4B chain

Chain RH:



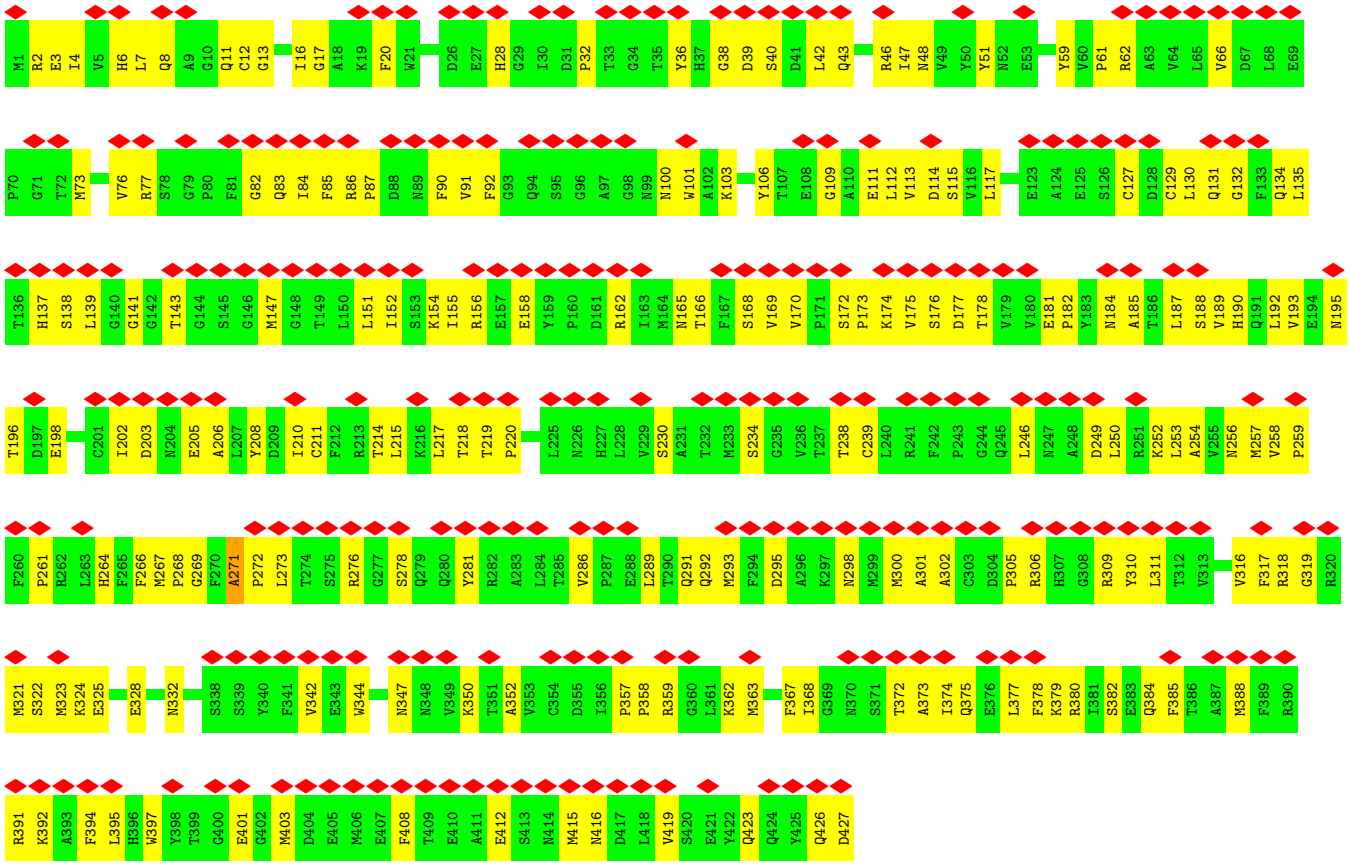




• Molecule 3: Tubulin beta-4B chain

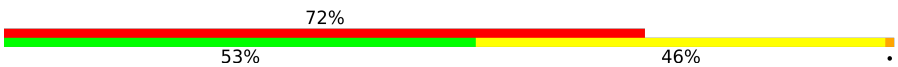
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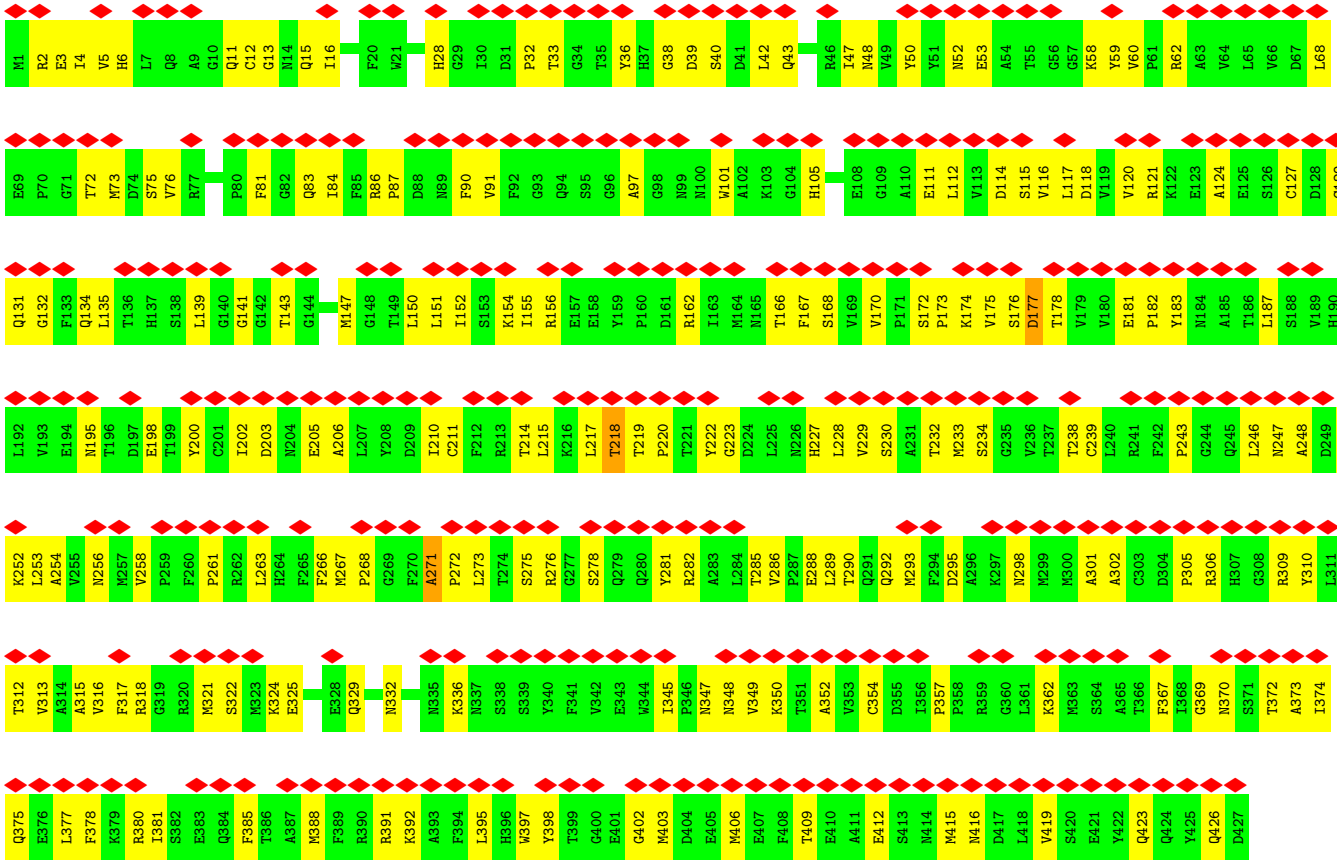




• Molecule 3: Tubulin beta-4B chain

Chain RL:

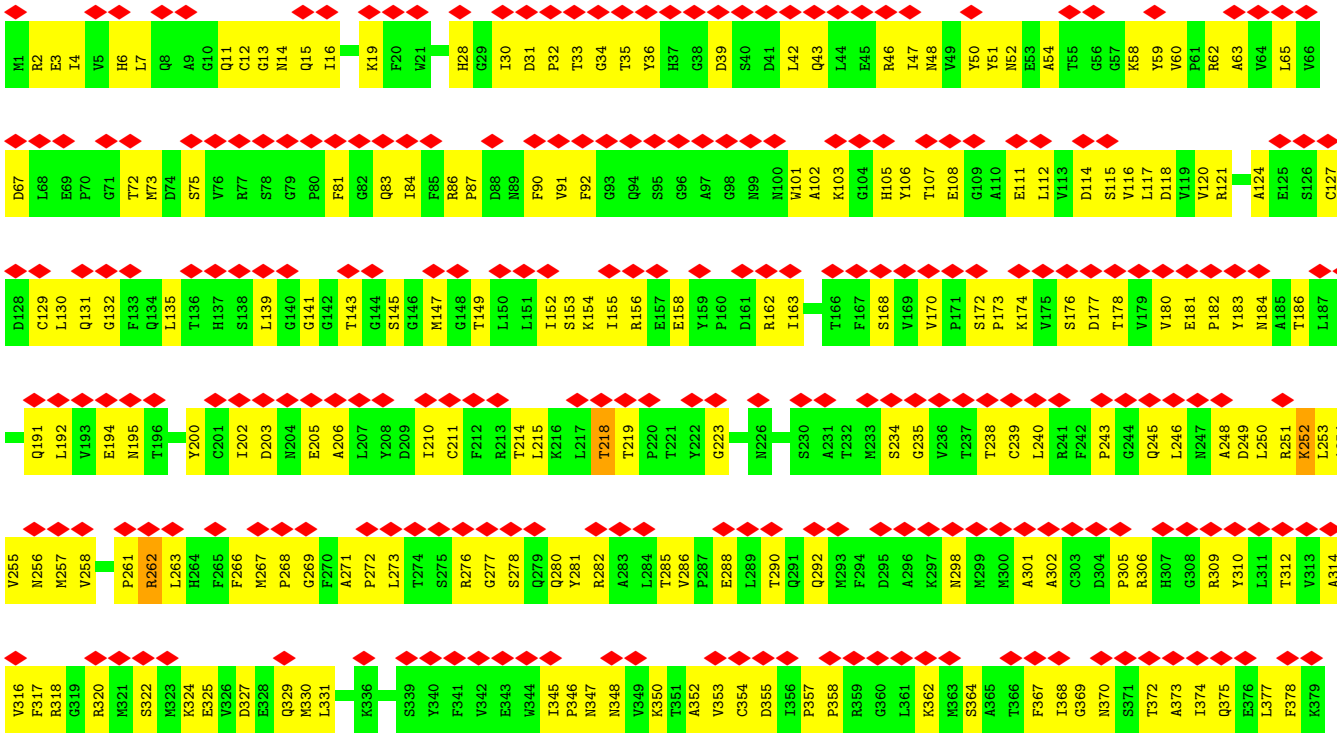


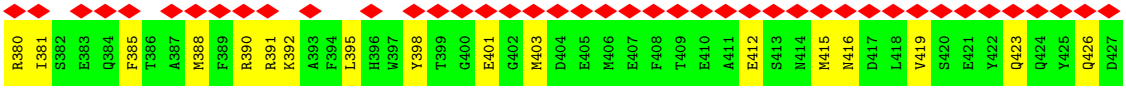


• Molecule 3: Tubulin beta-4B chain

Chain SB:



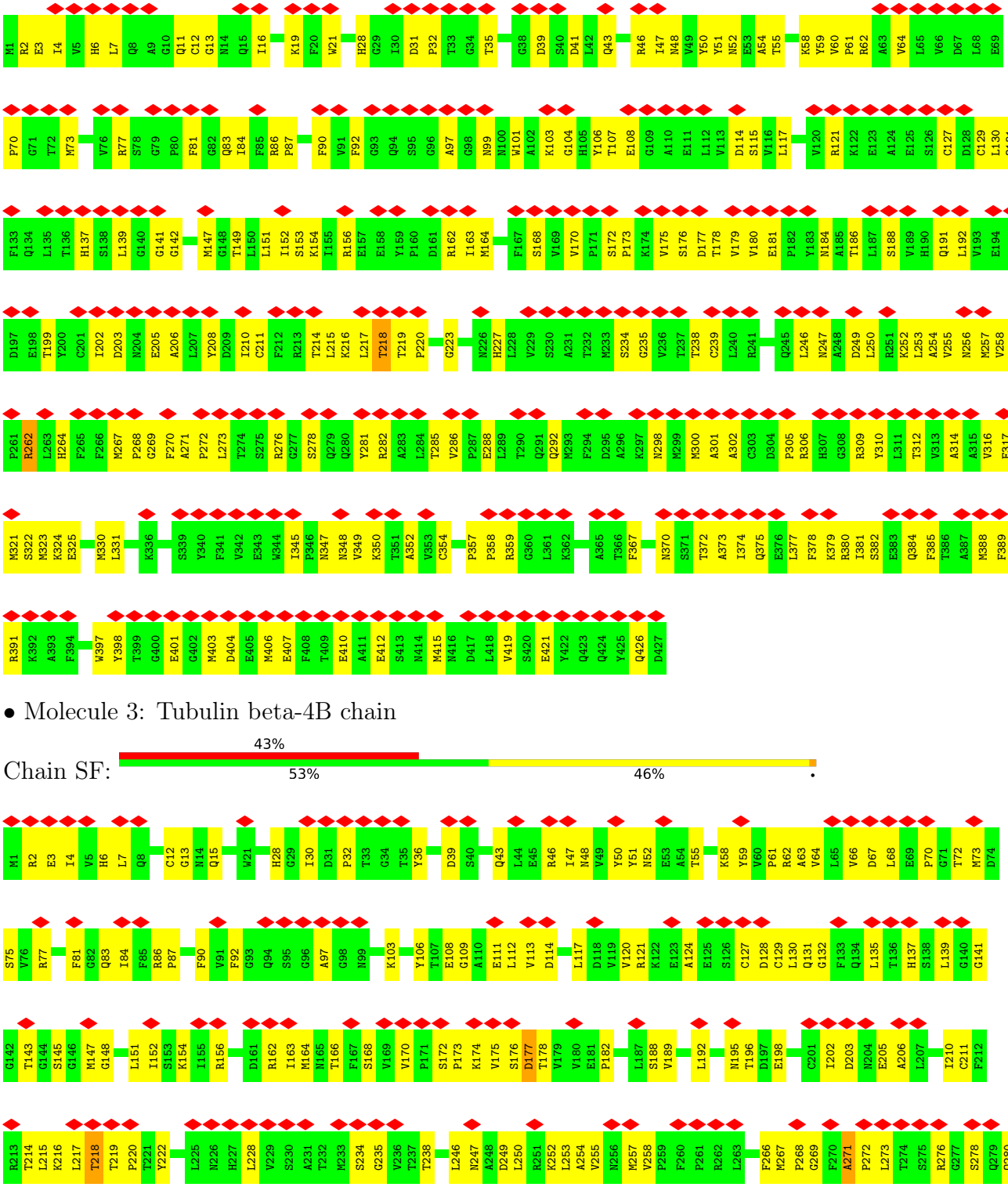




• Molecule 3: Tubulin beta-4B chain

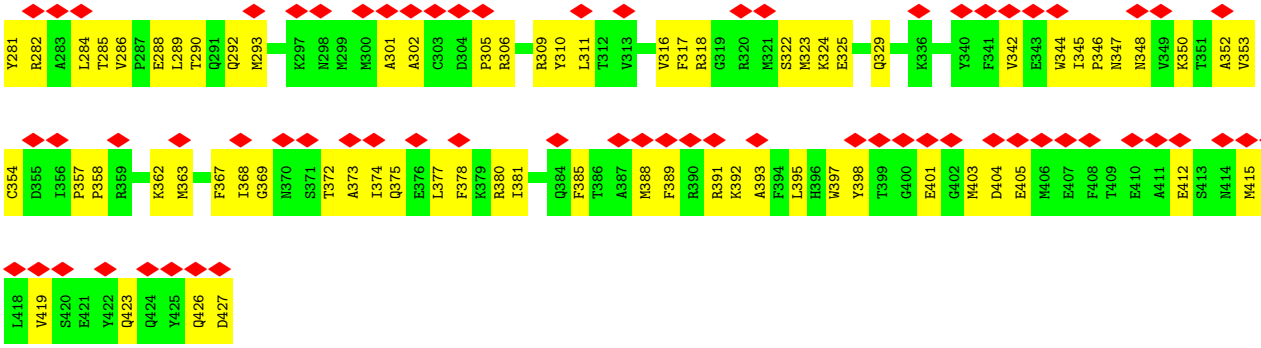
Chain SD:





• Molecule 3: Tubulin beta-4B chain

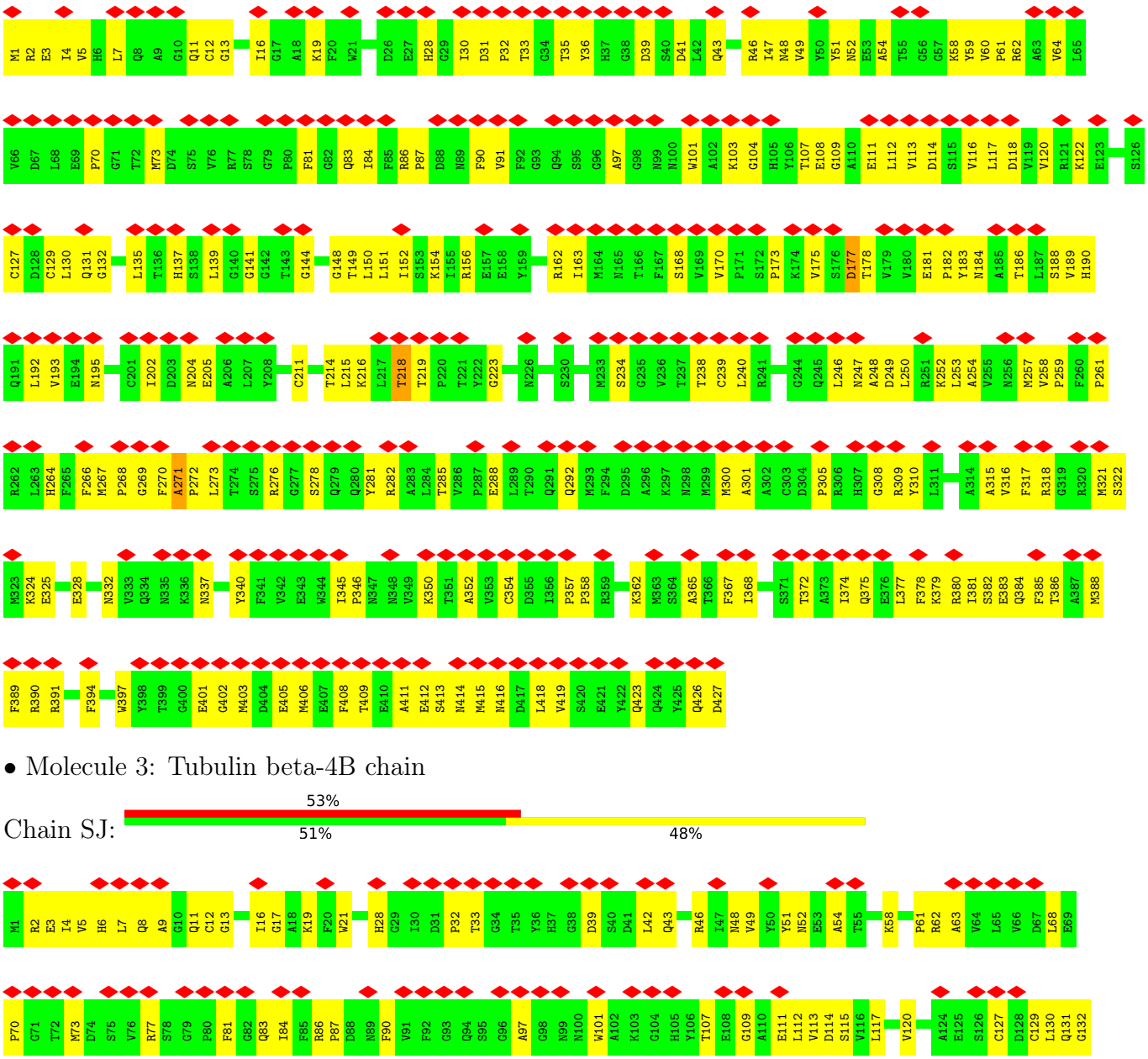
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• Molecule 3: Tubulin beta-4B chain

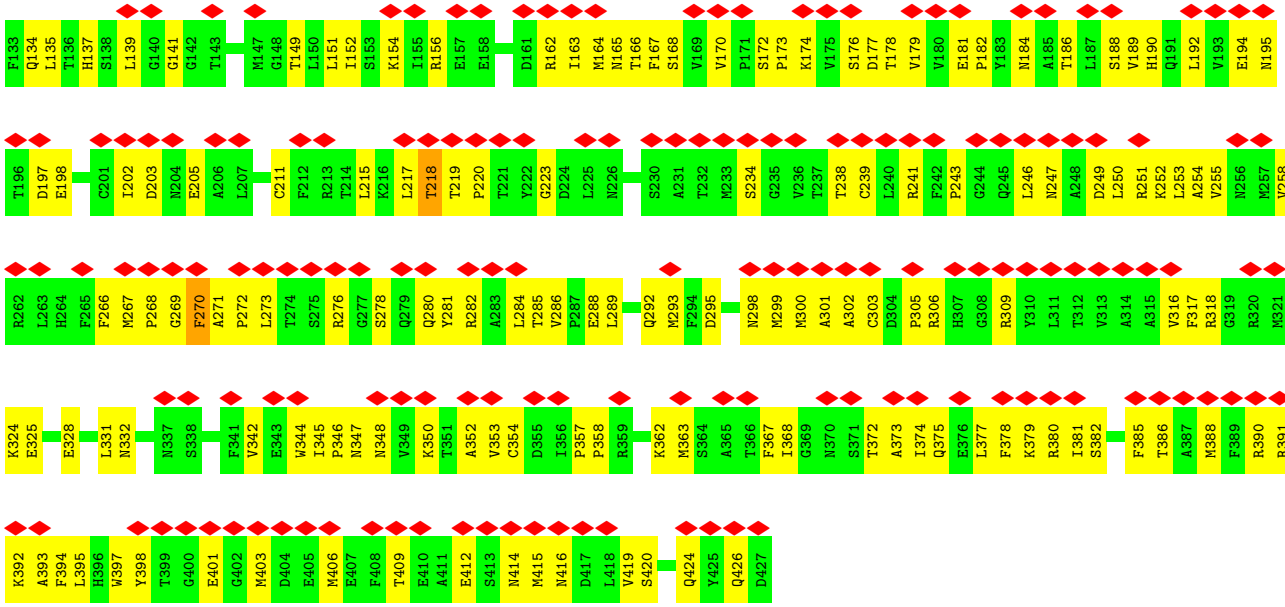
Chain SH:





• Molecule 3: Tubulin beta-4B chain

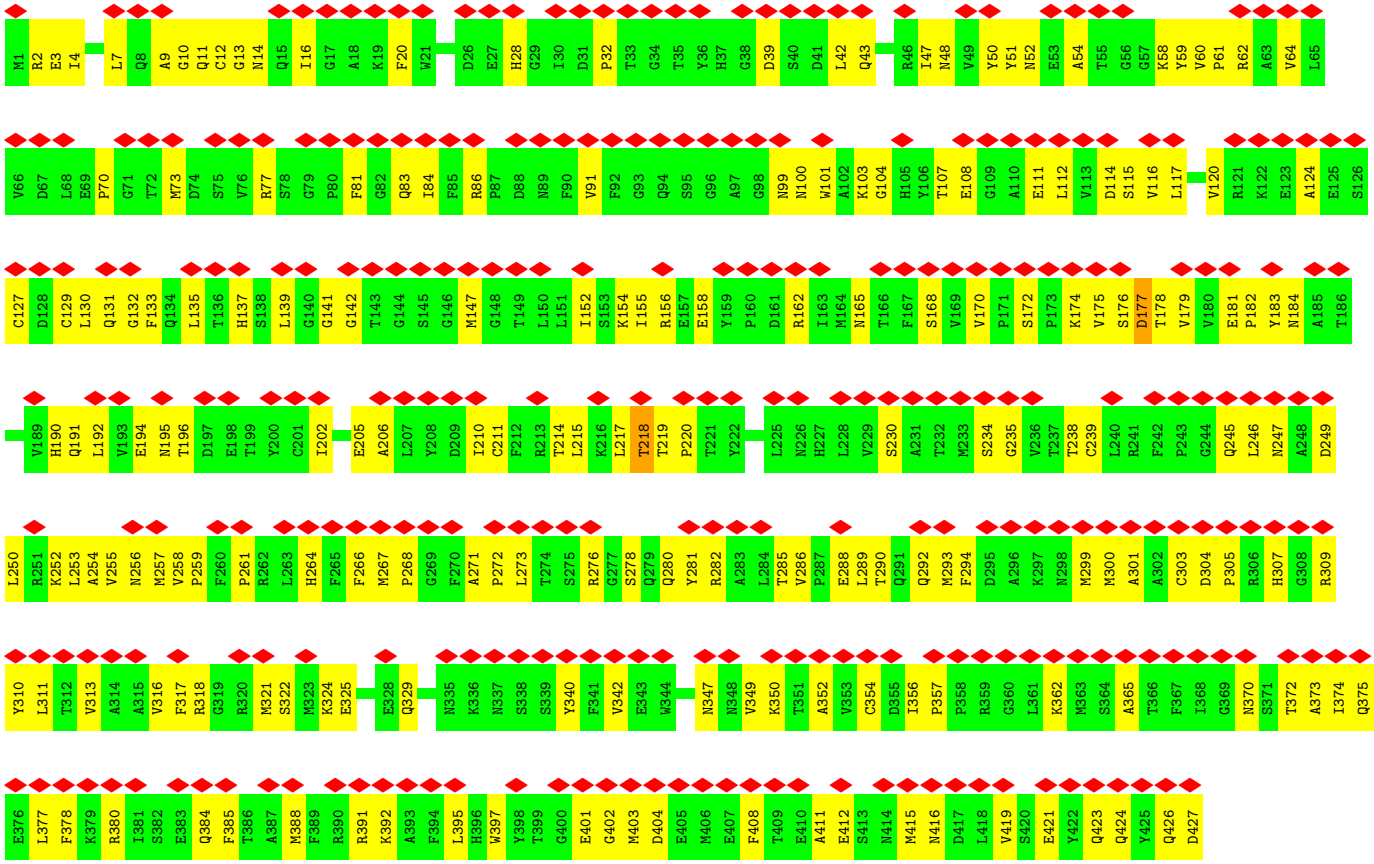
Chain SJ:



• Molecule 3: Tubulin beta-4B chain

Chain SL:

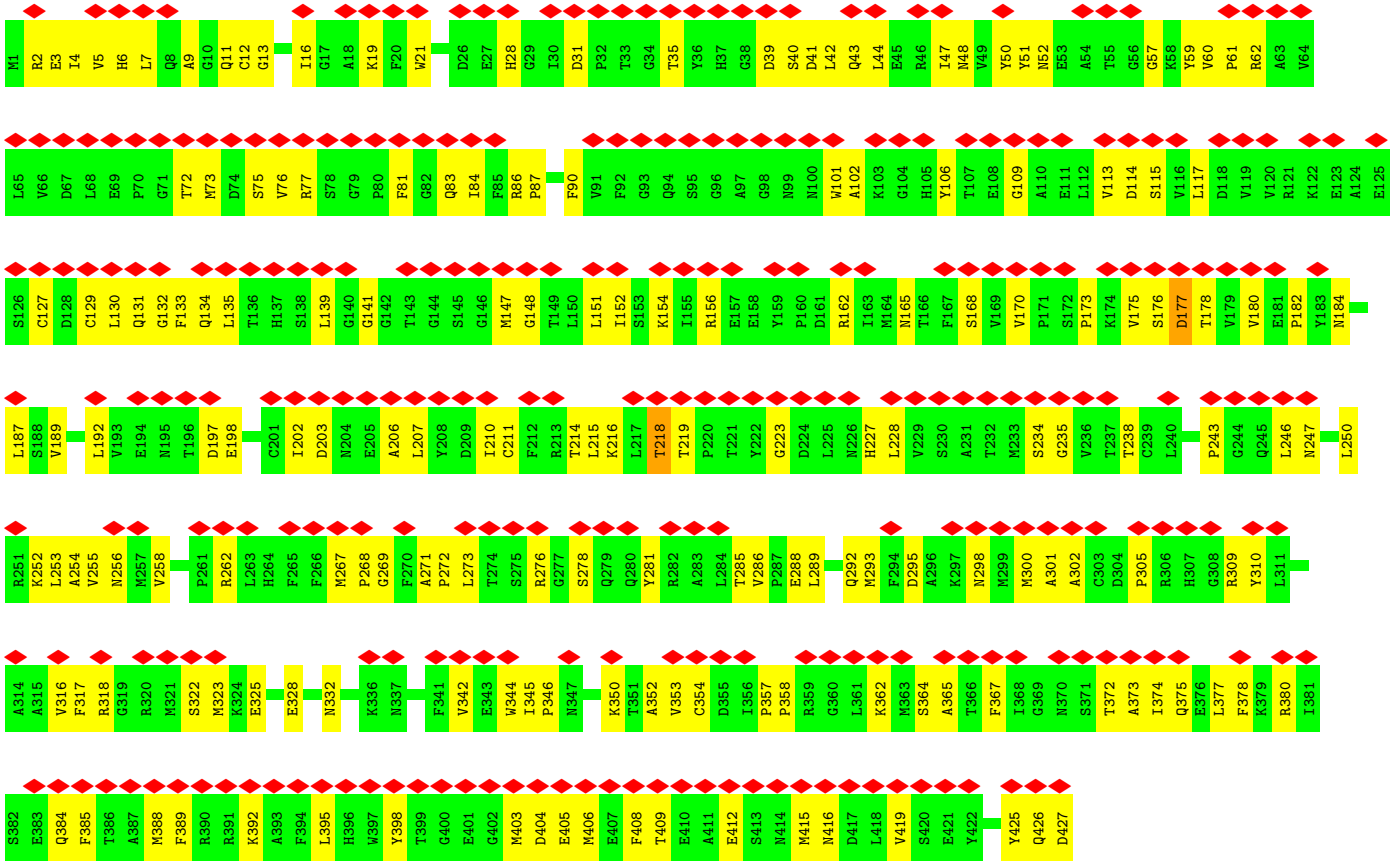




• Molecule 3: Tubulin beta-4B chain

Chain TB:

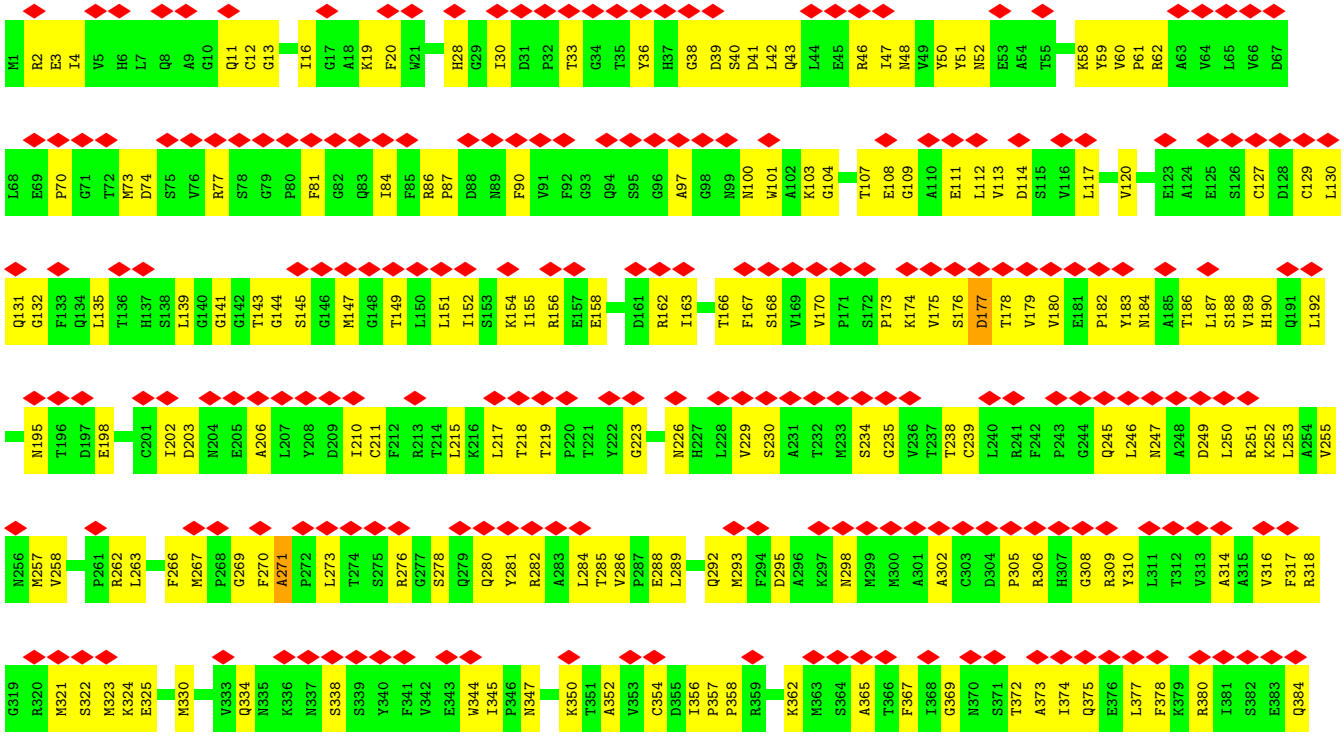


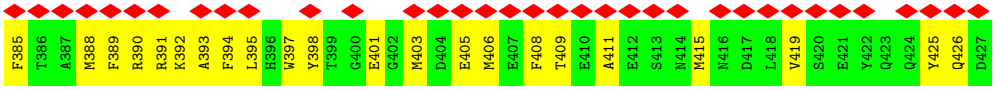


• Molecule 3: Tubulin beta-4B chain

Chain TD:



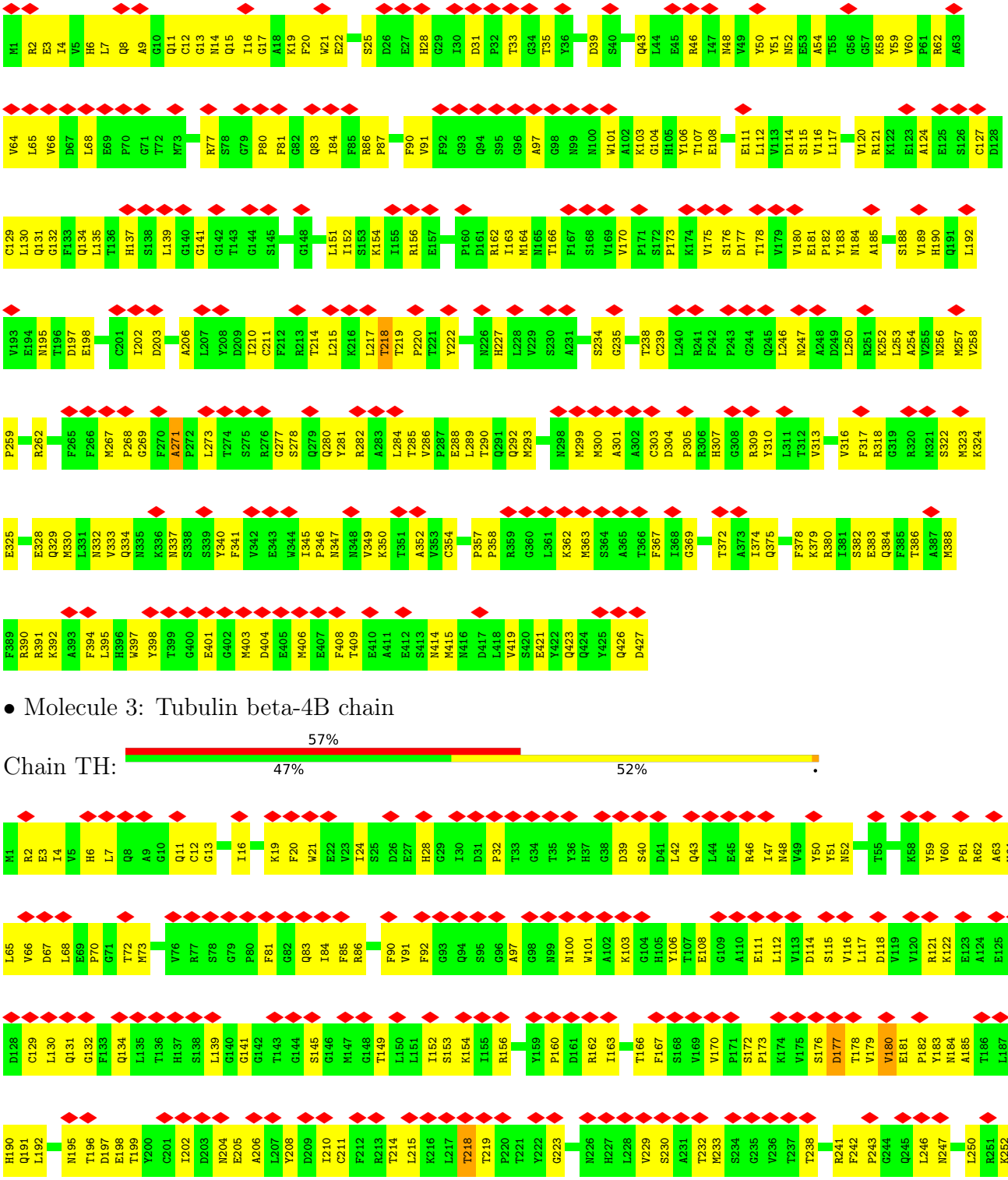




• Molecule 3: Tubulin beta-4B chain

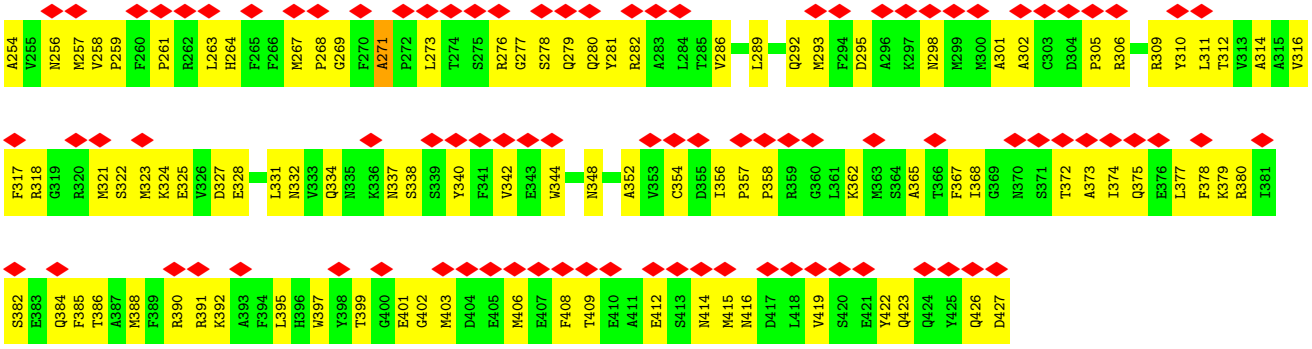
Chain TF:





• Molecule 3: Tubulin beta-4B chain

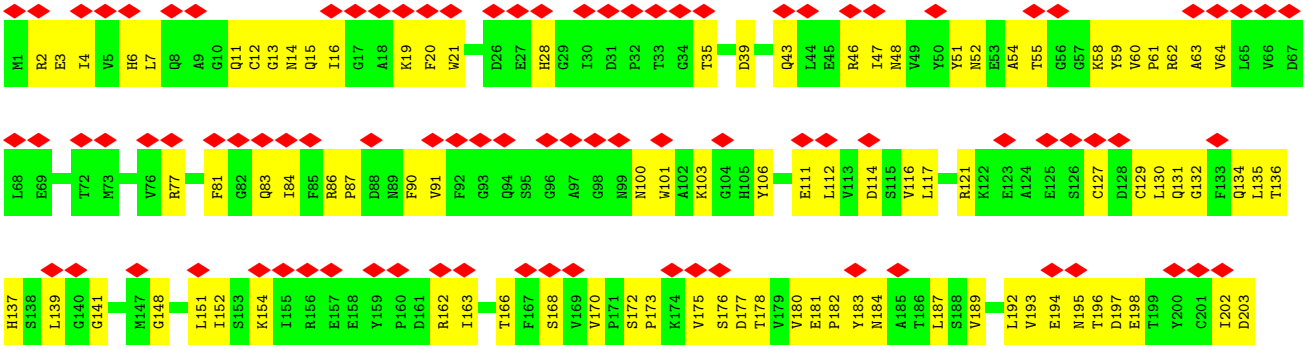
Chain TH:



• Molecule 3: Tubulin beta-4B chain

Chain TJ:

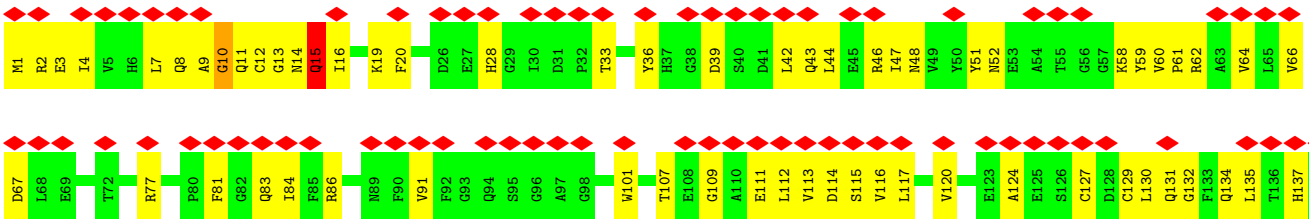


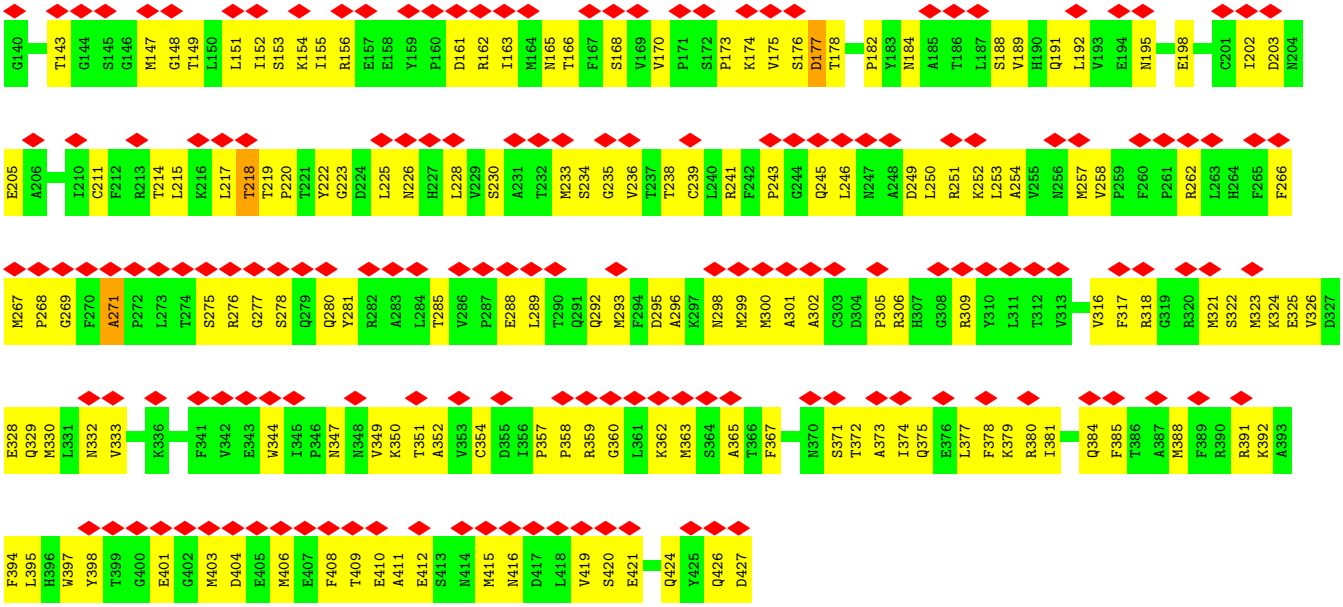


• Molecule 3: Tubulin beta-4B chain

Chain TL:



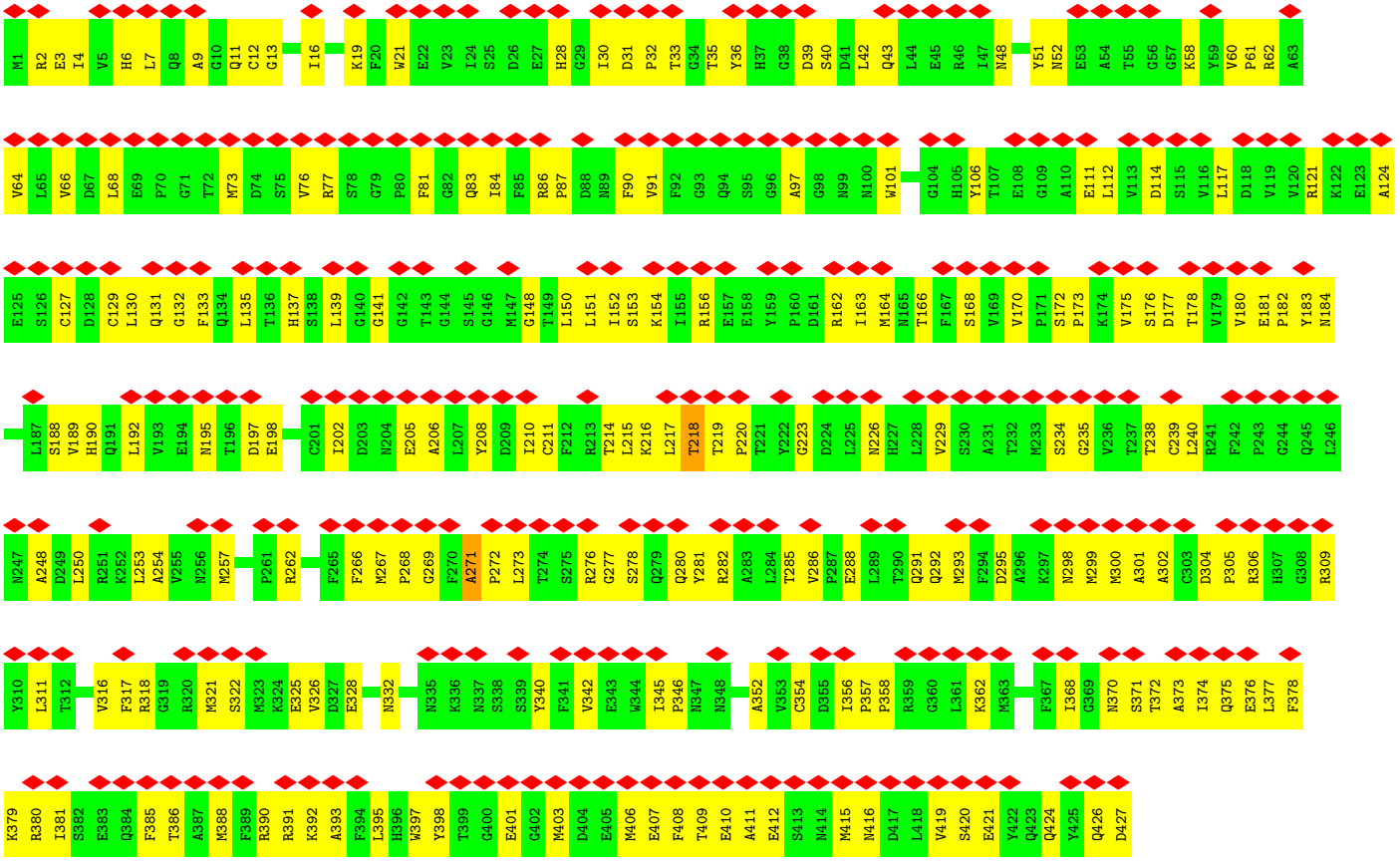




• Molecule 3: Tubulin beta-4B chain

Chain TN:

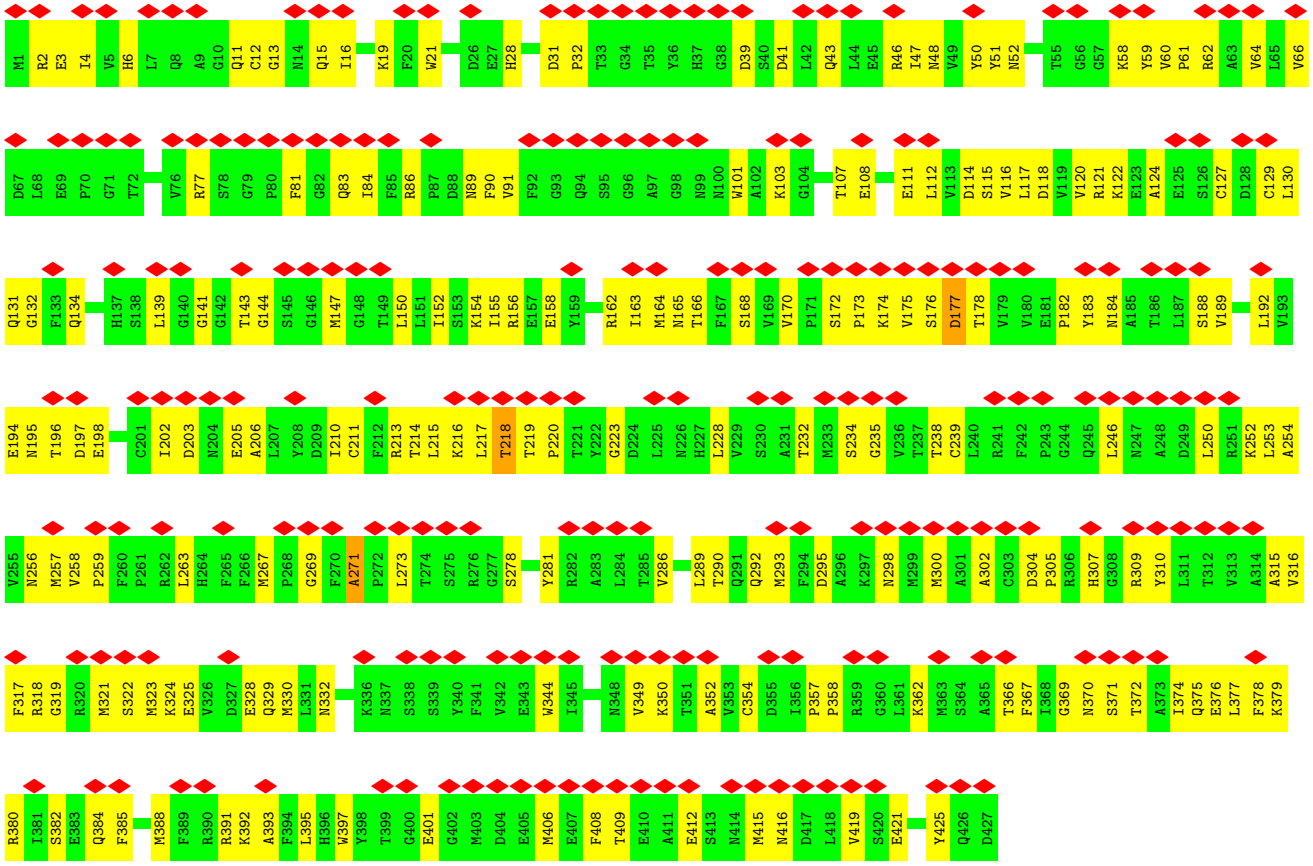




• Molecule 3: Tubulin beta-4B chain

Chain UB:

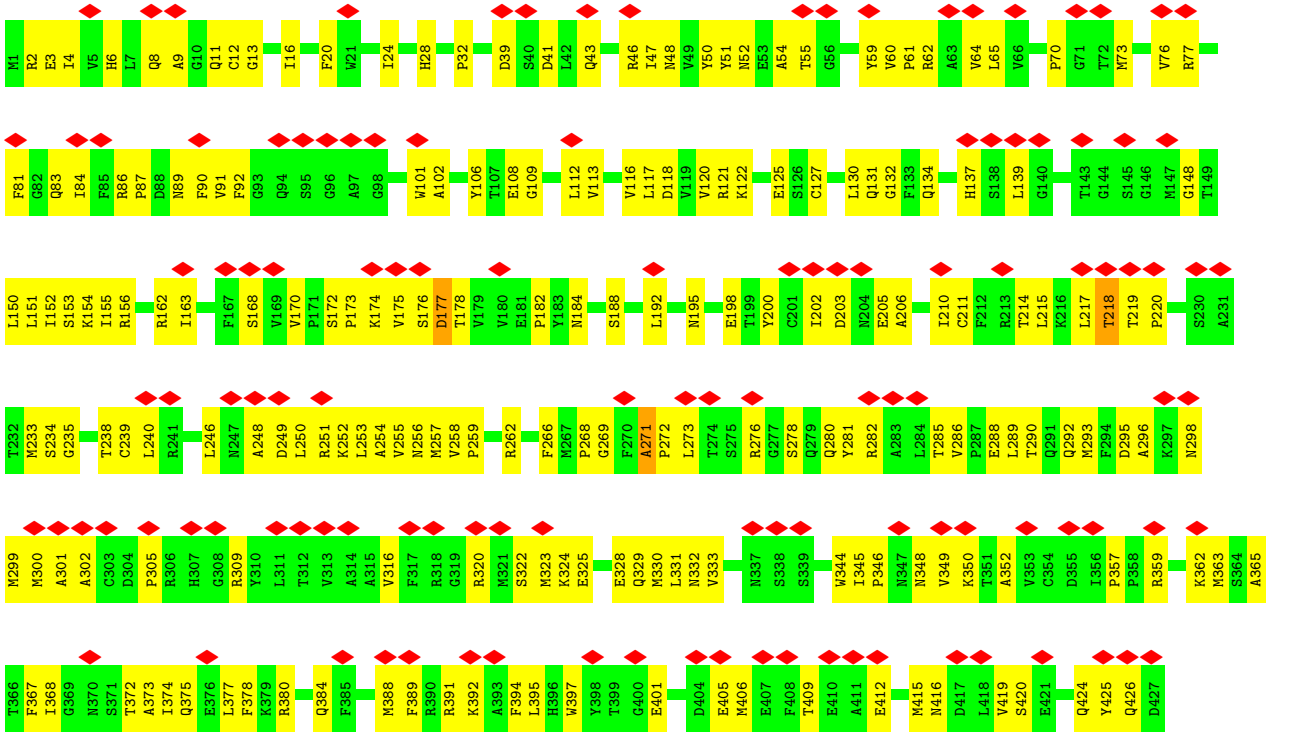




• Molecule 3: Tubulin beta-4B chain

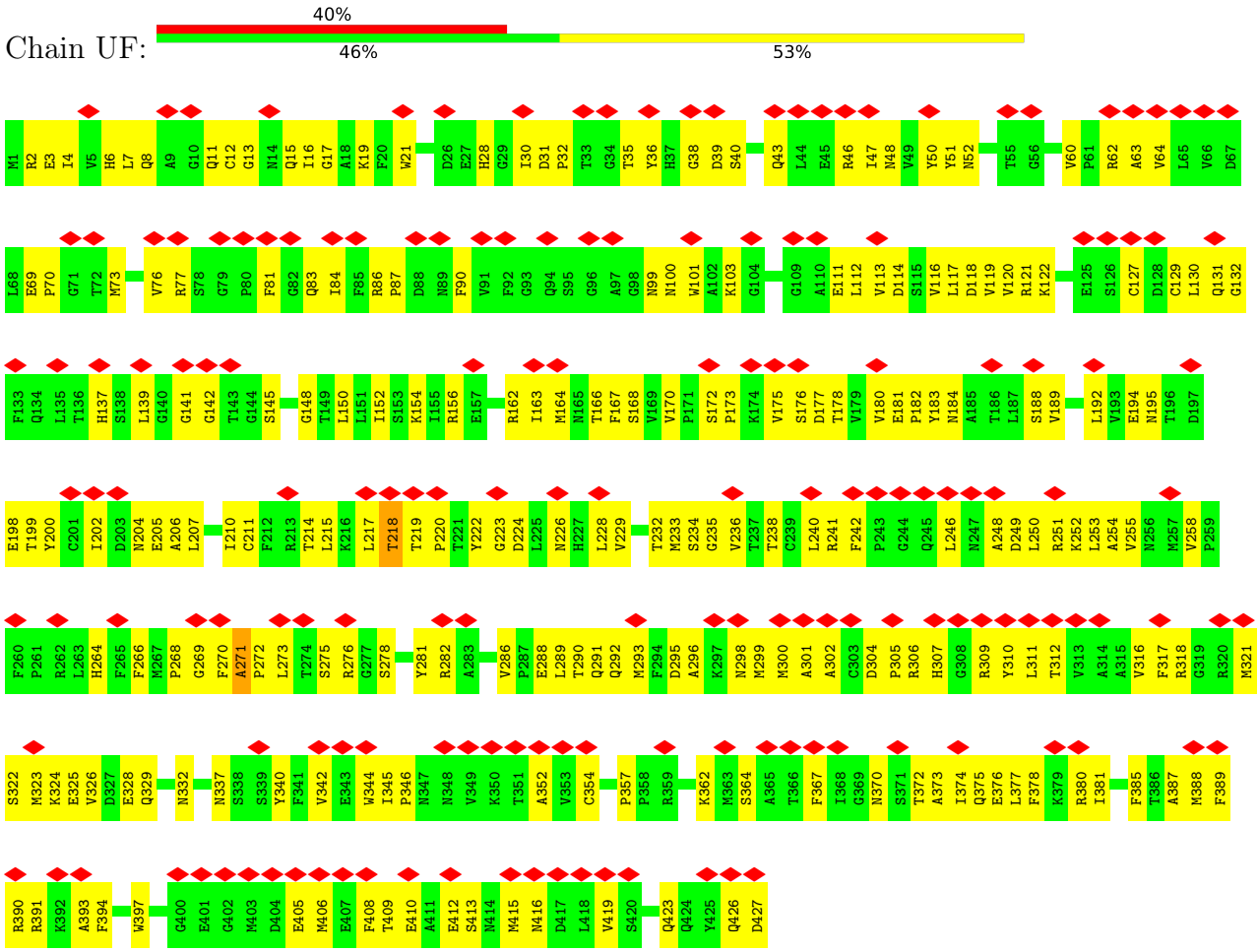
Chain UD:





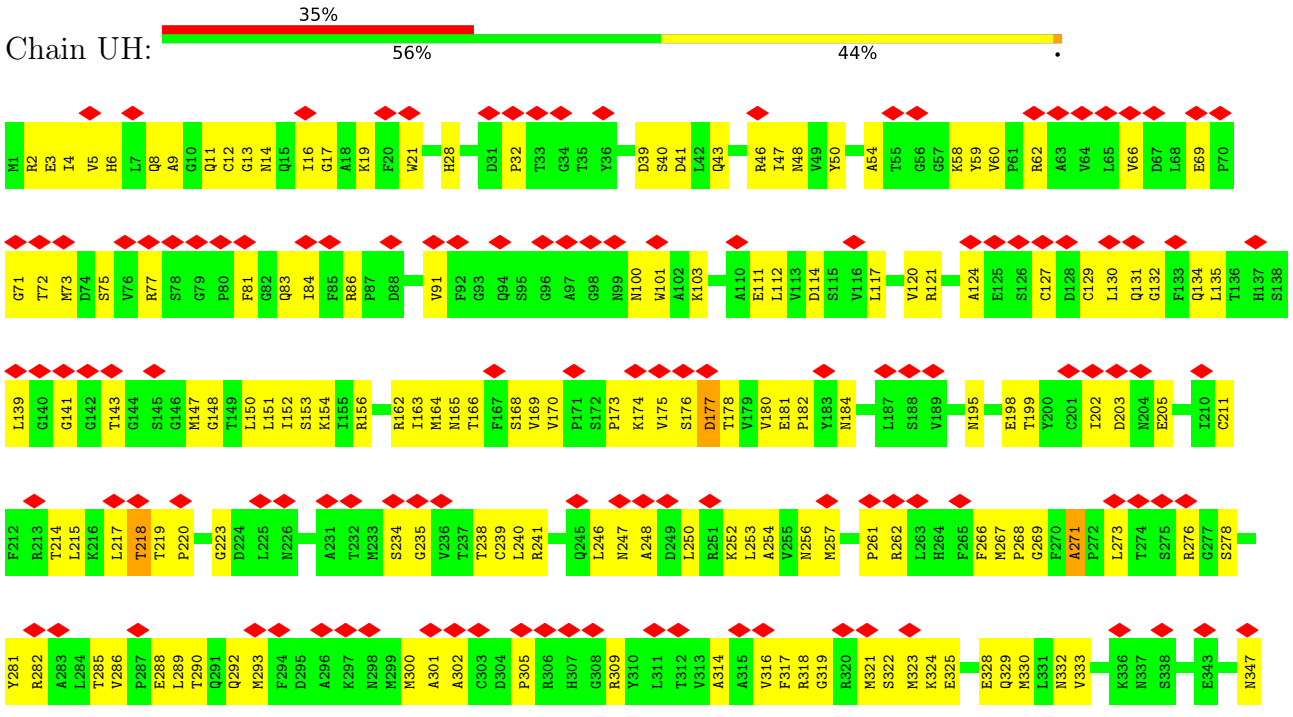
• Molecule 3: Tubulin beta-4B chain

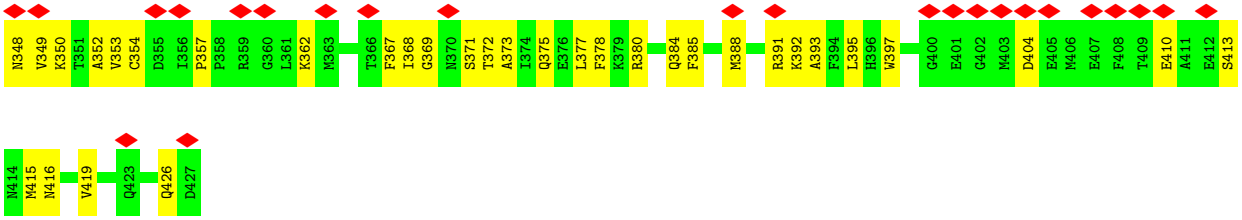
Chain UF:



• Molecule 3: Tubulin beta-4B chain

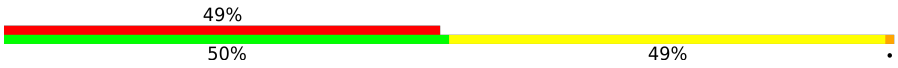
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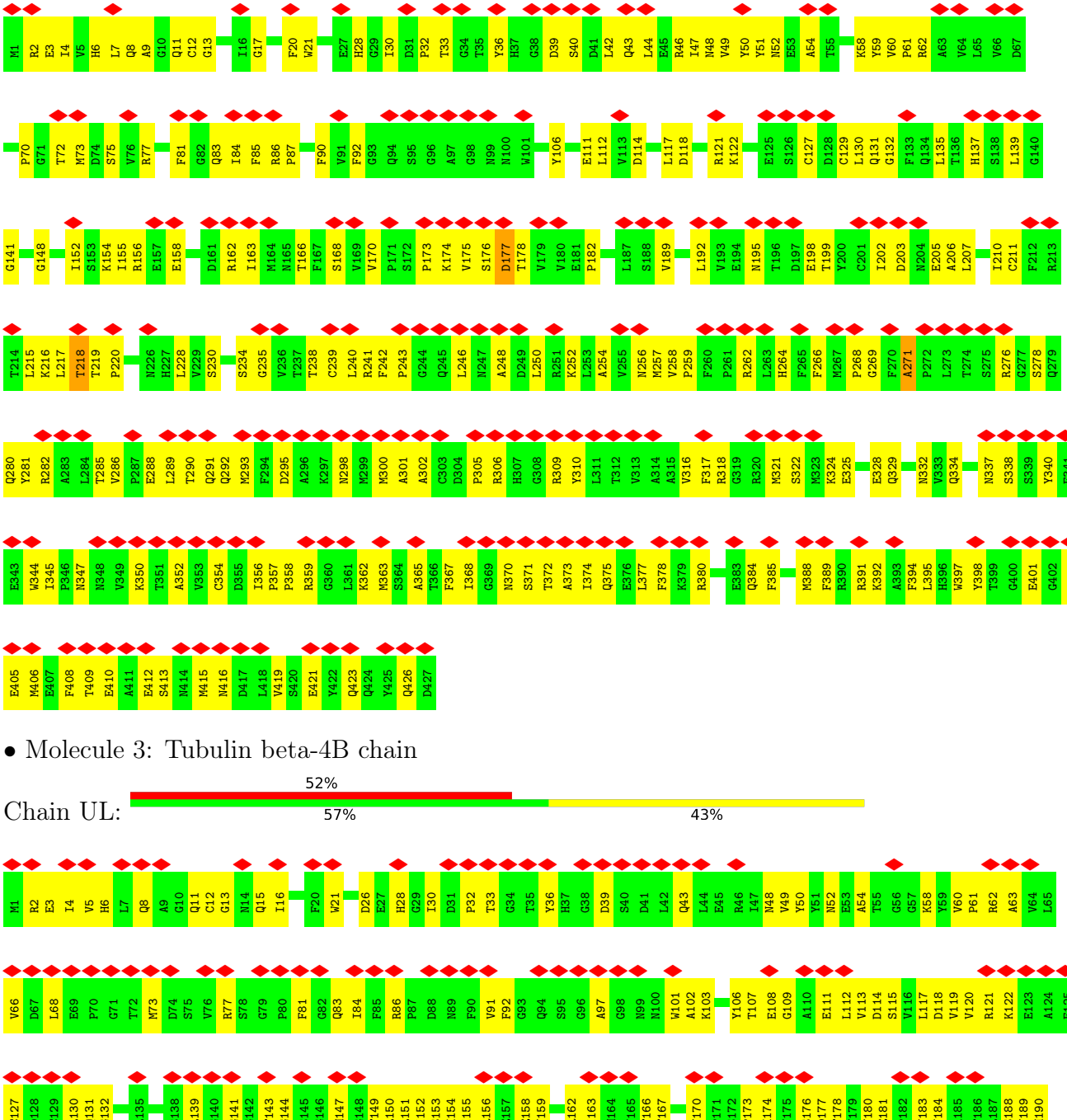




• Molecule 3: Tubulin beta-4B chain

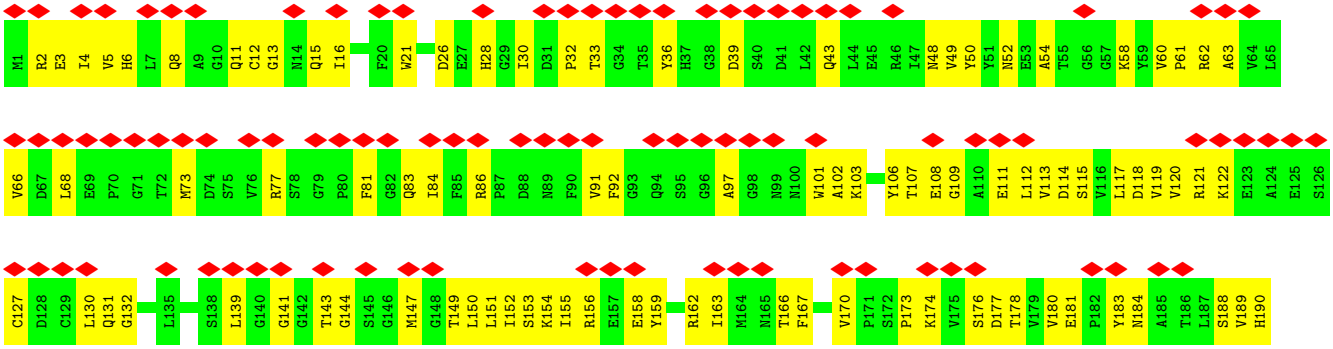
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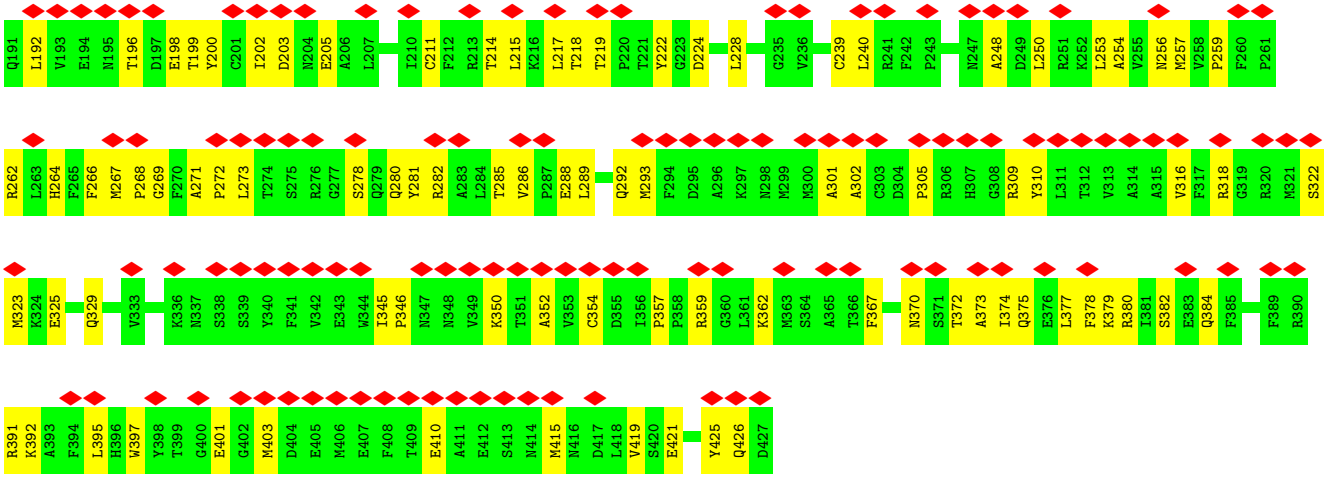




• Molecule 3: Tubulin beta-4B chain

Chain UL:

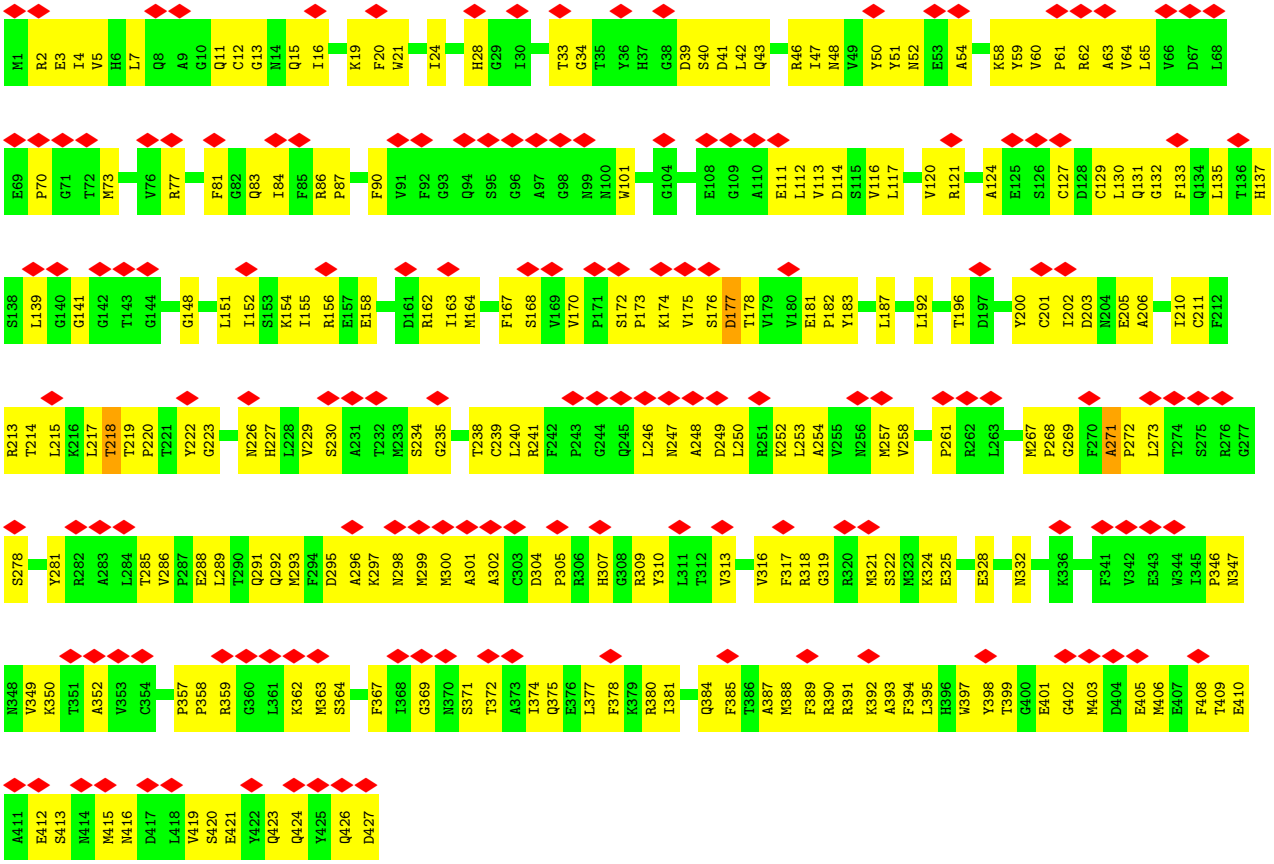




• Molecule 3: Tubulin beta-4B chain

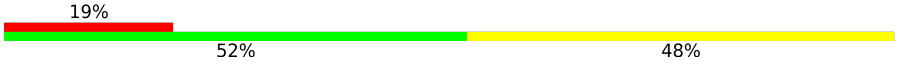
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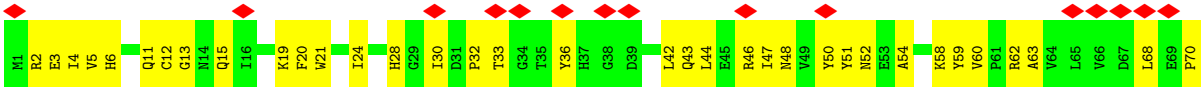


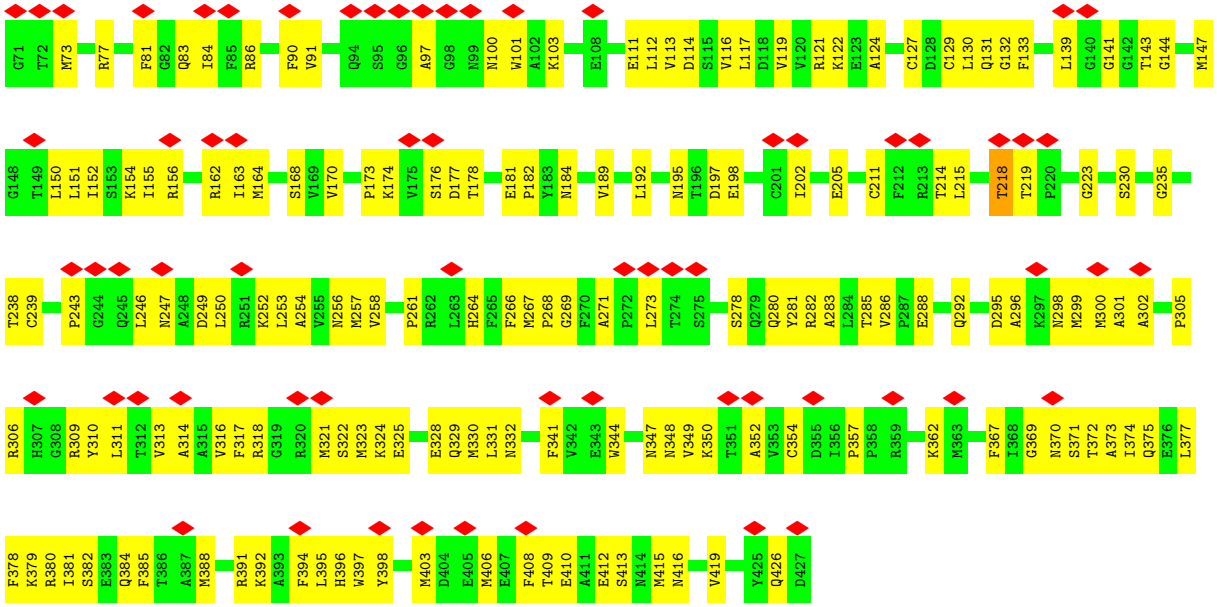


• Molecule 3: Tubulin beta-4B chain

Chain VD:



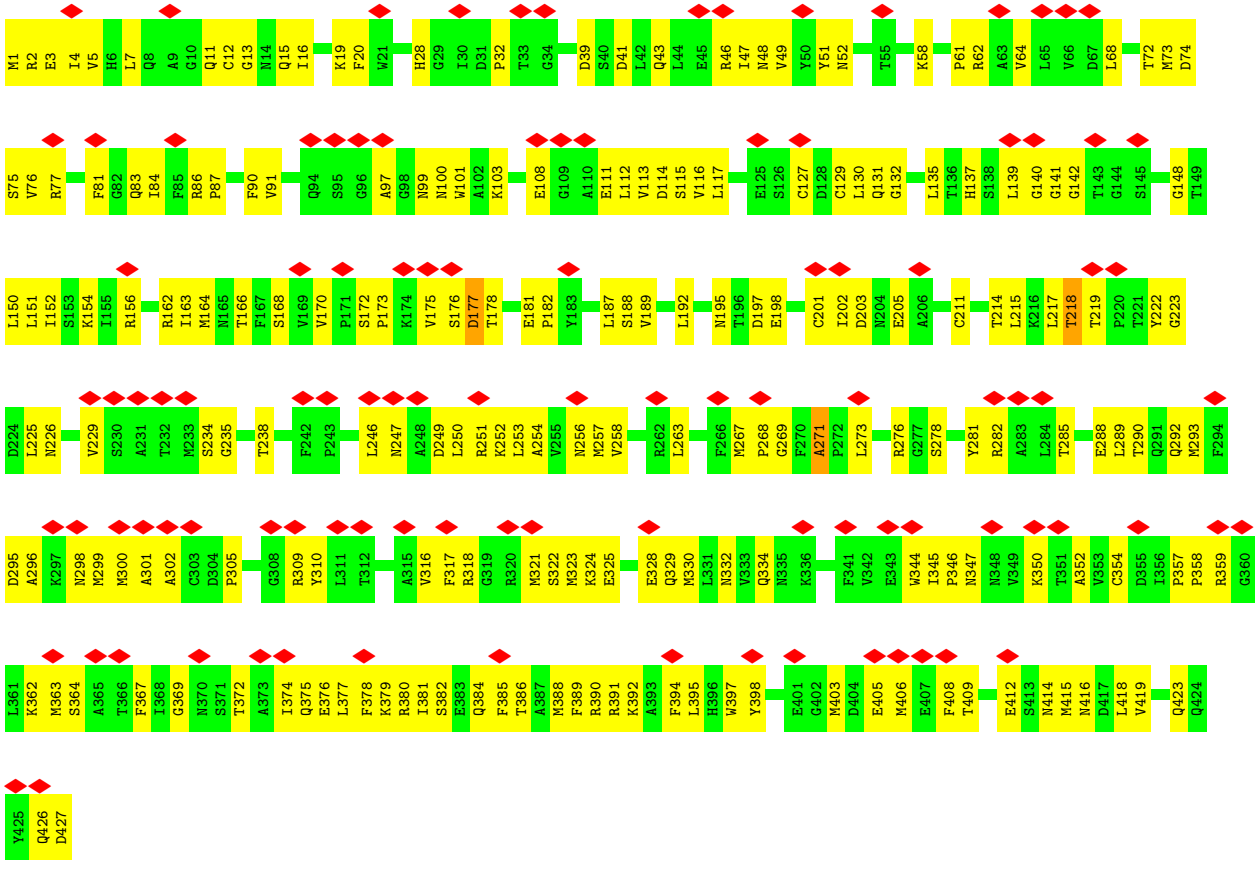




• Molecule 3: Tubulin beta-4B chain

Chain VF:

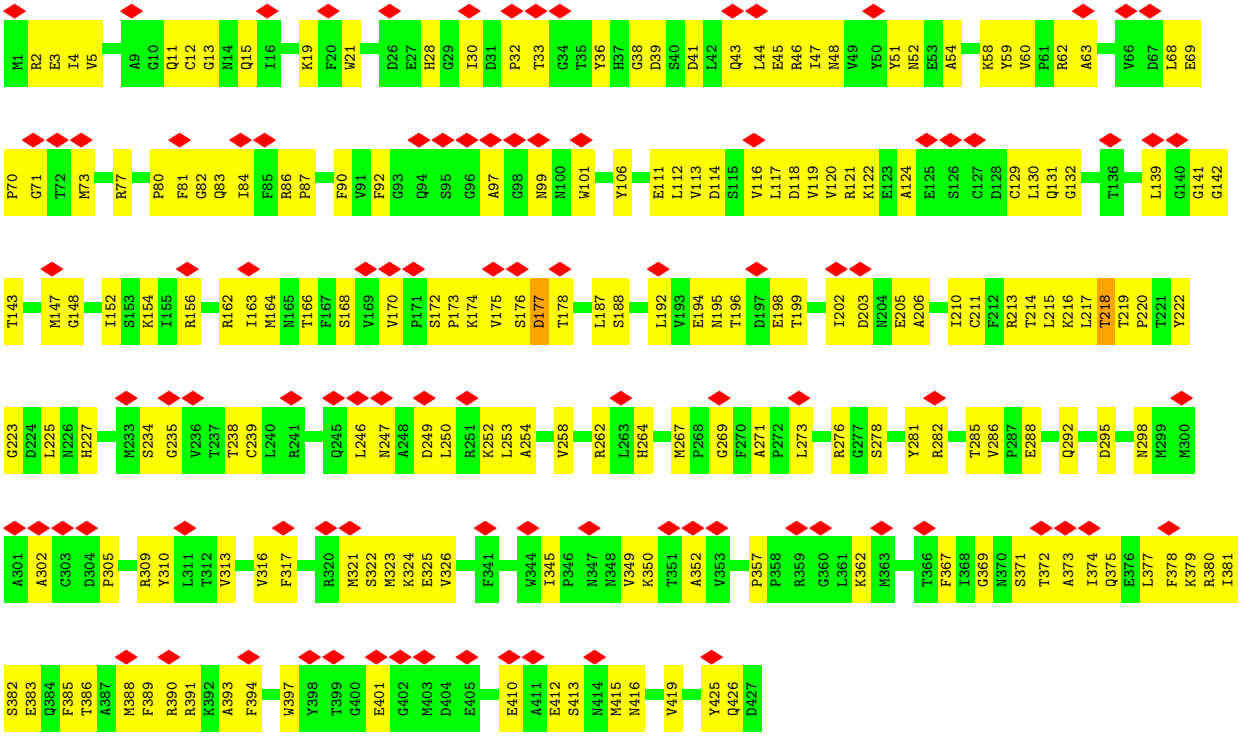




• Molecule 3: Tubulin beta-4B chain

Chain VH:

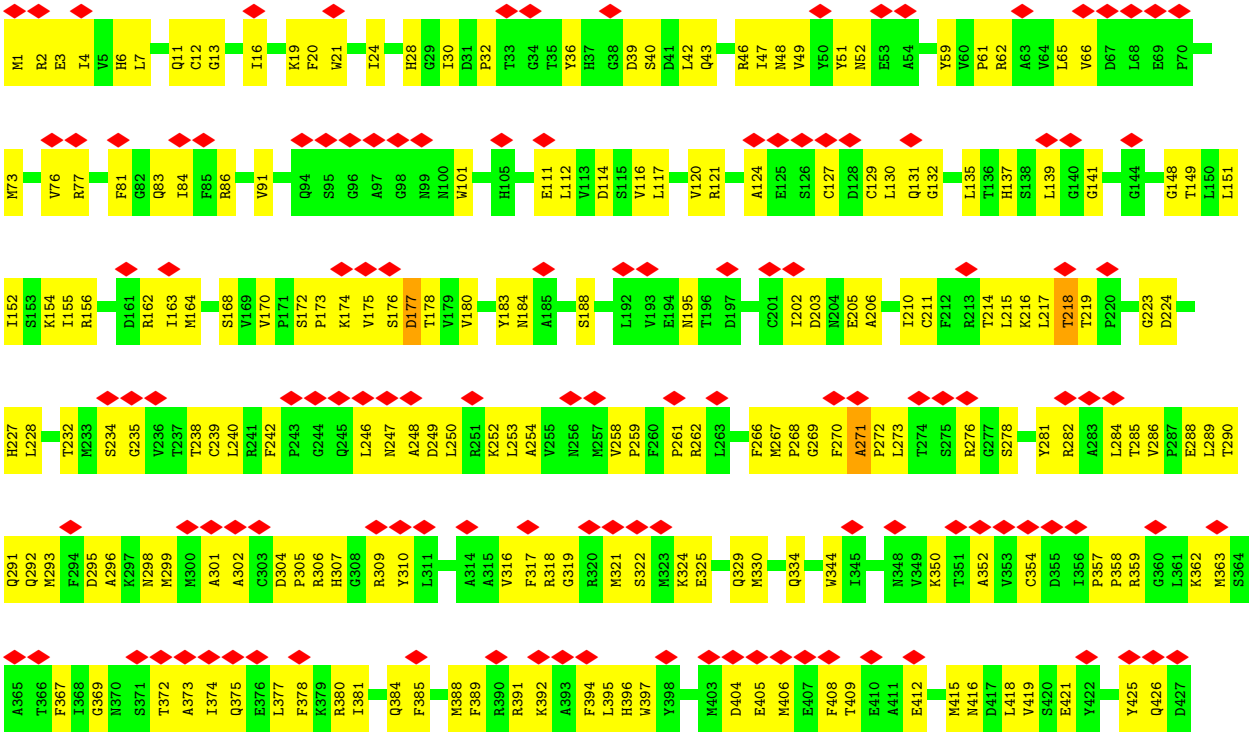




• Molecule 3: Tubulin beta-4B chain

Chain VJ:

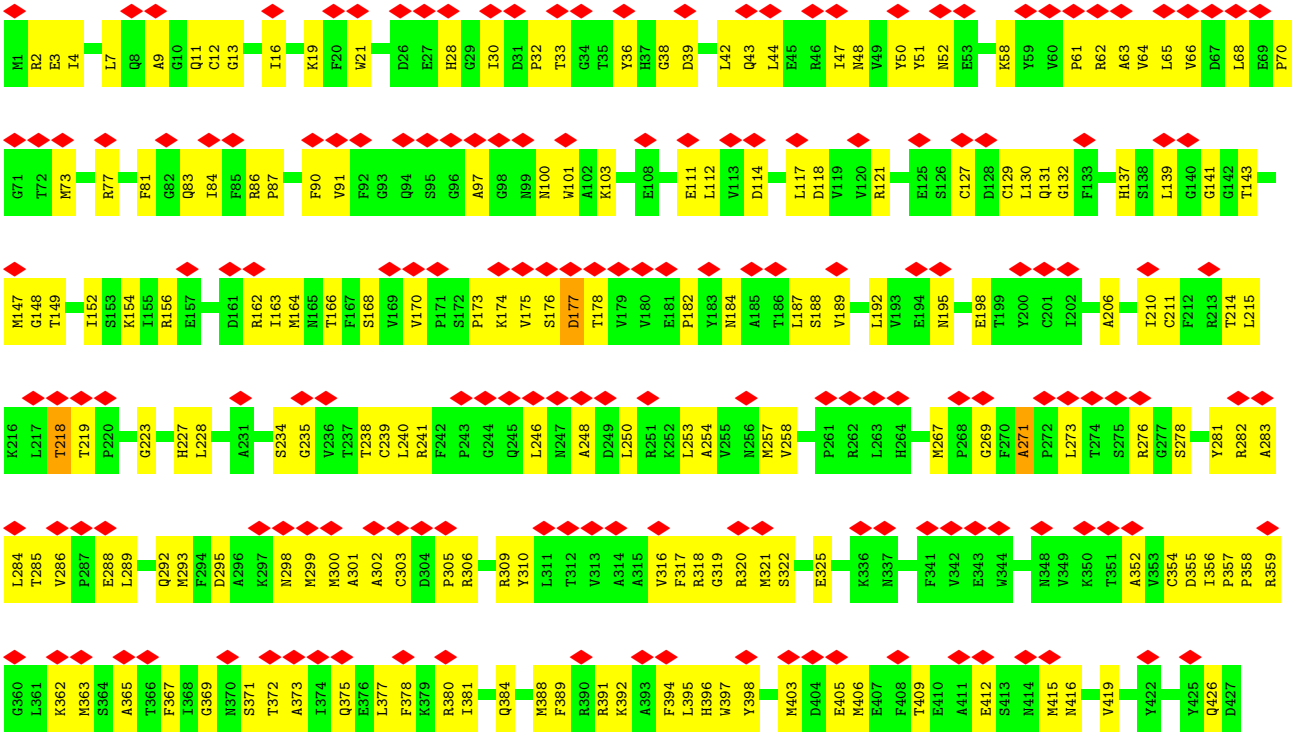




• Molecule 3: Tubulin beta-4B chain

Chain VL:

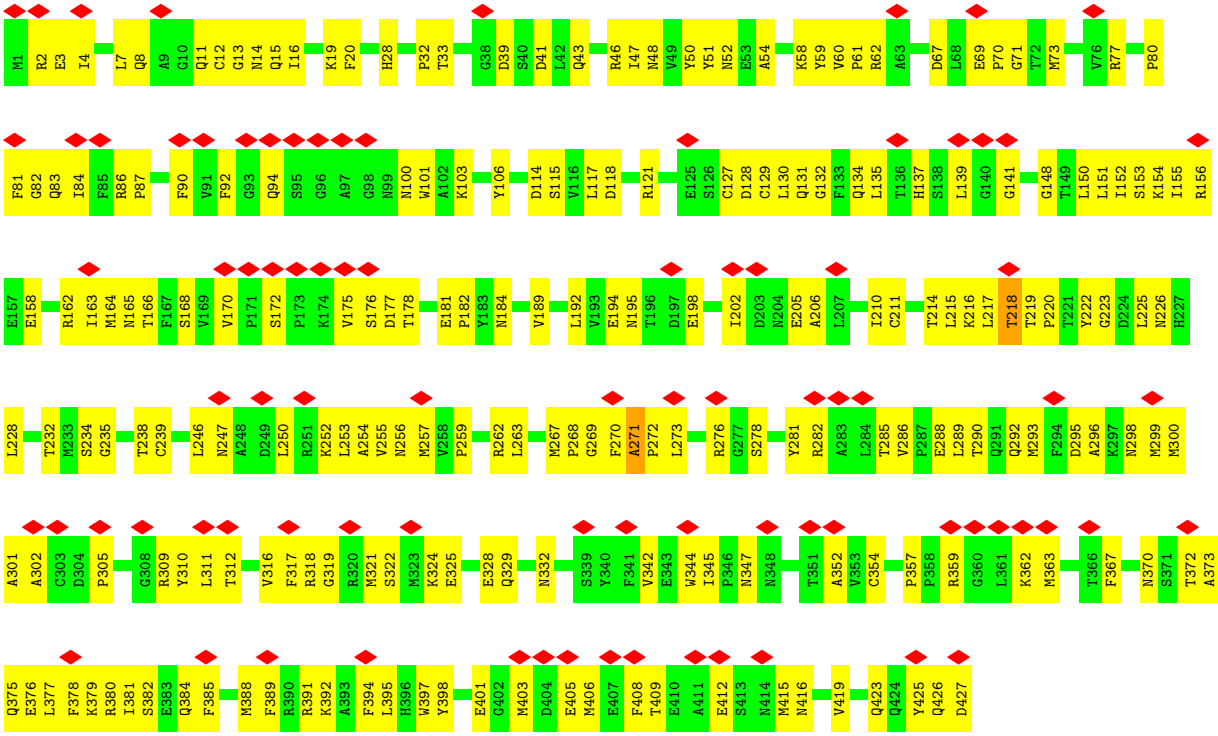




• Molecule 3: Tubulin beta-4B chain

Chain WB:

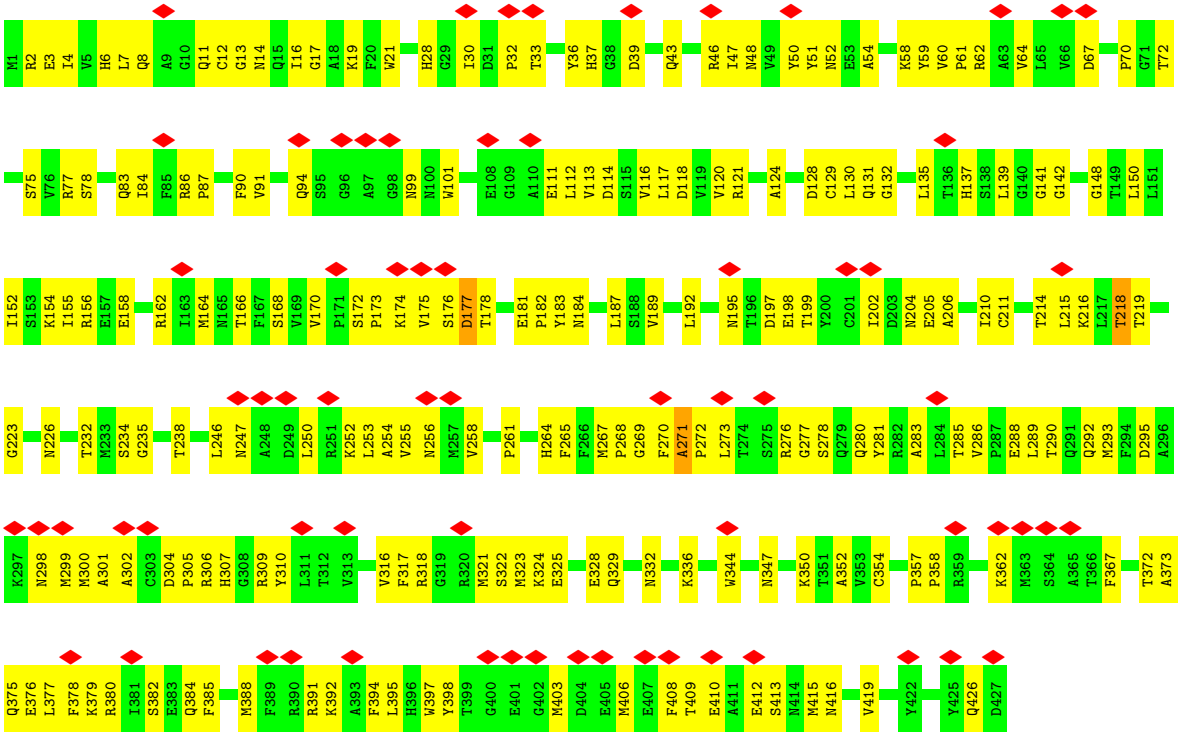




• Molecule 3: Tubulin beta-4B chain

Chain WD:

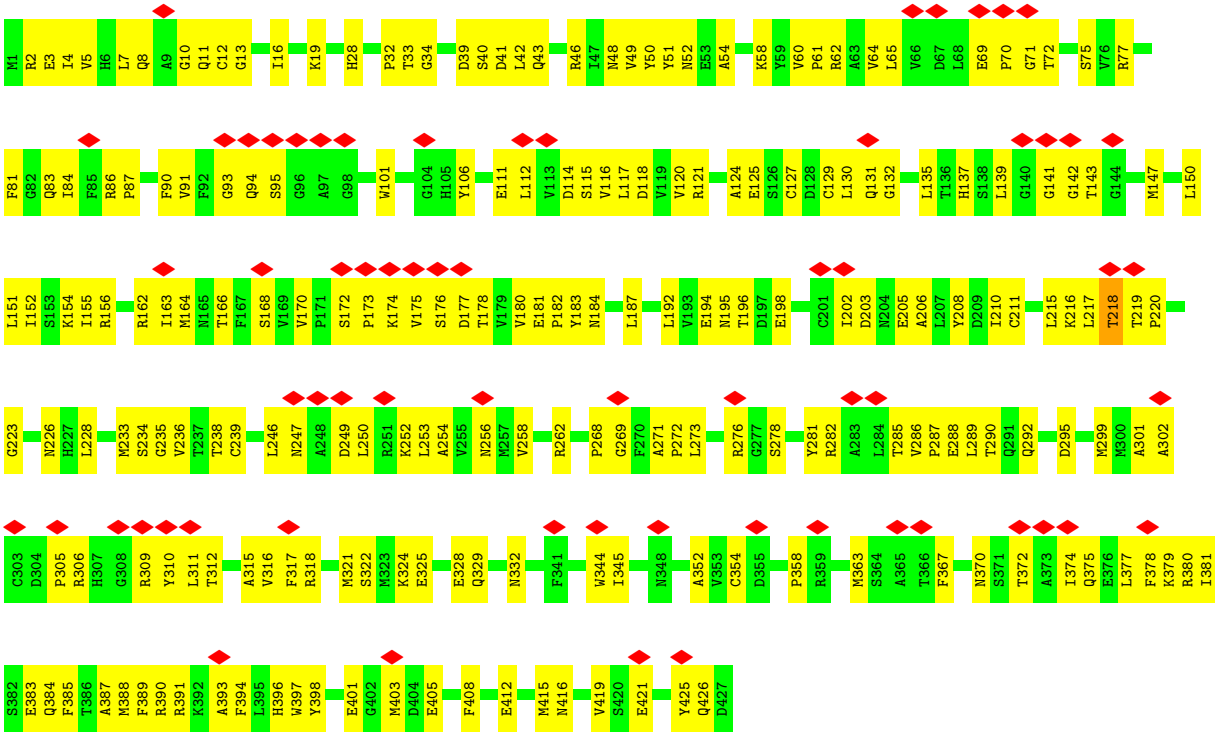




• Molecule 3: Tubulin beta-4B chain

Chain WF:

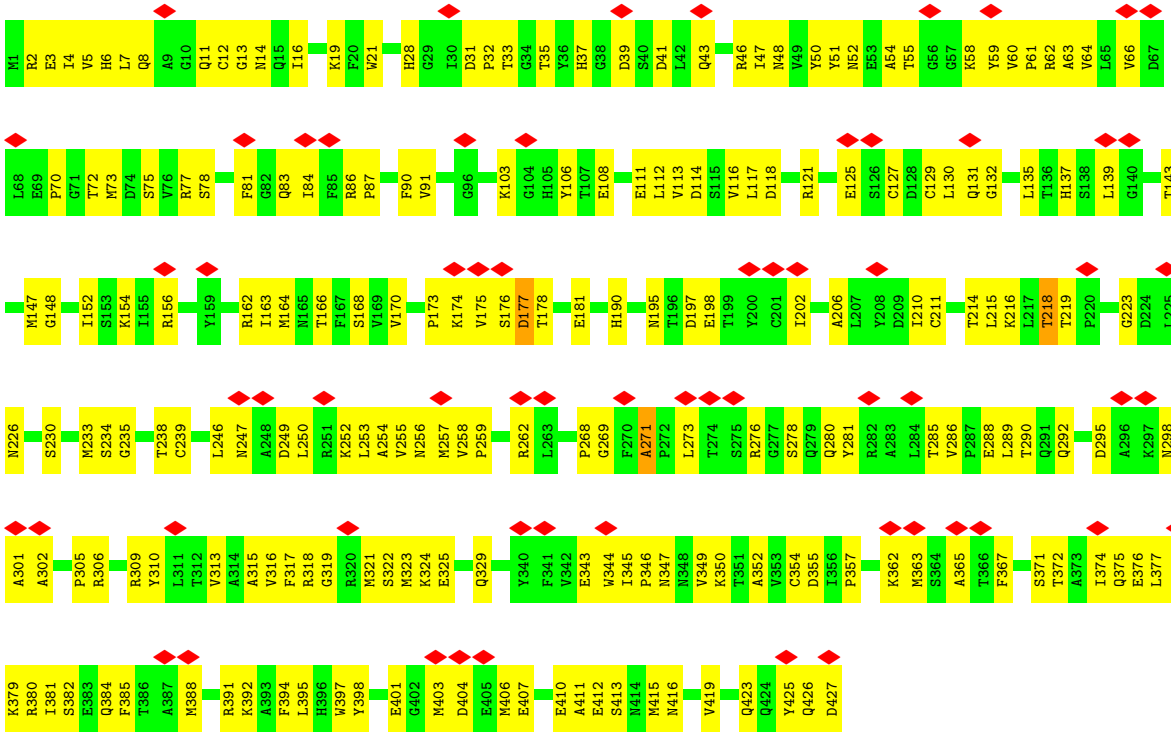




• Molecule 3: Tubulin beta-4B chain

Chain WH:

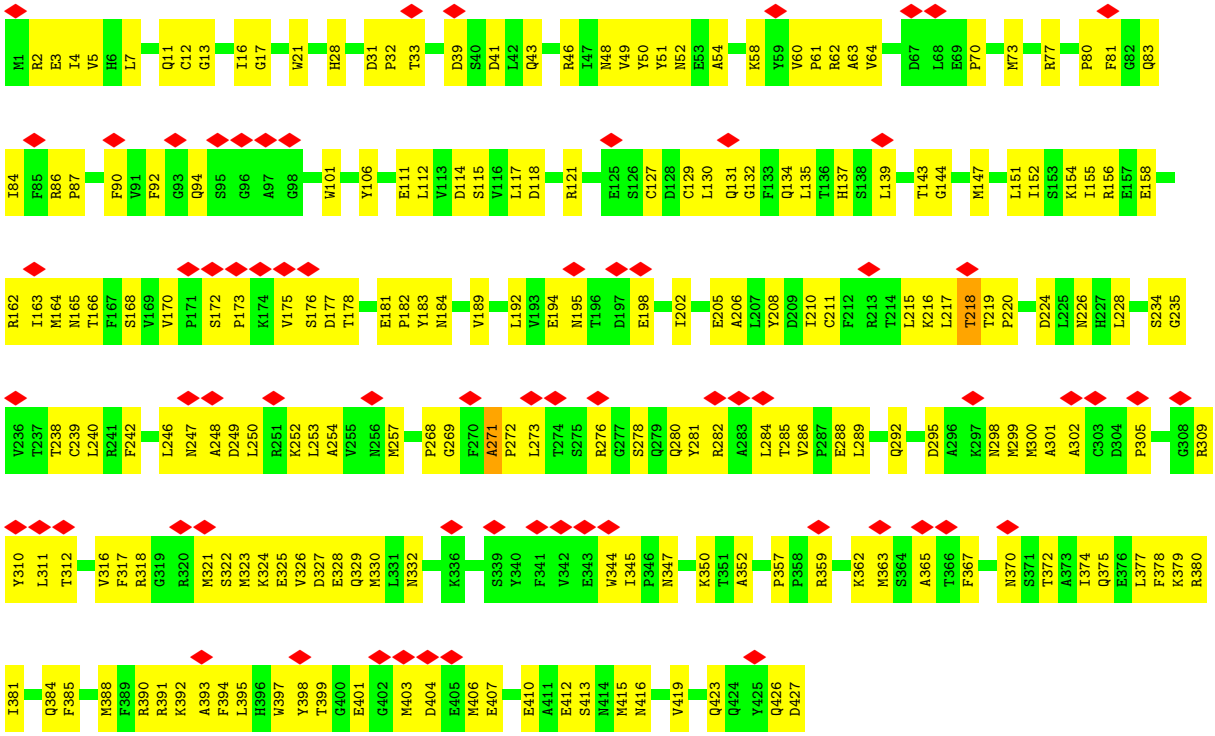




• Molecule 3: Tubulin beta-4B chain

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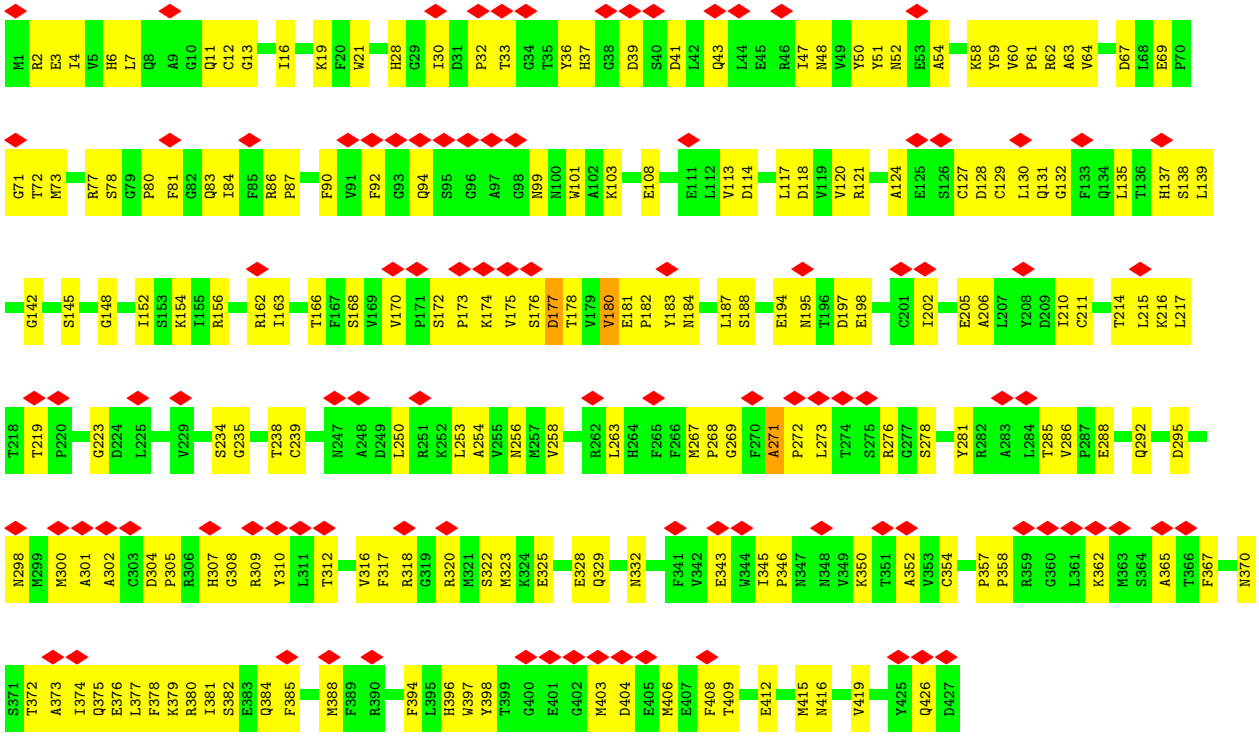




• Molecule 3: Tubulin beta-4B chain

Chain WL:

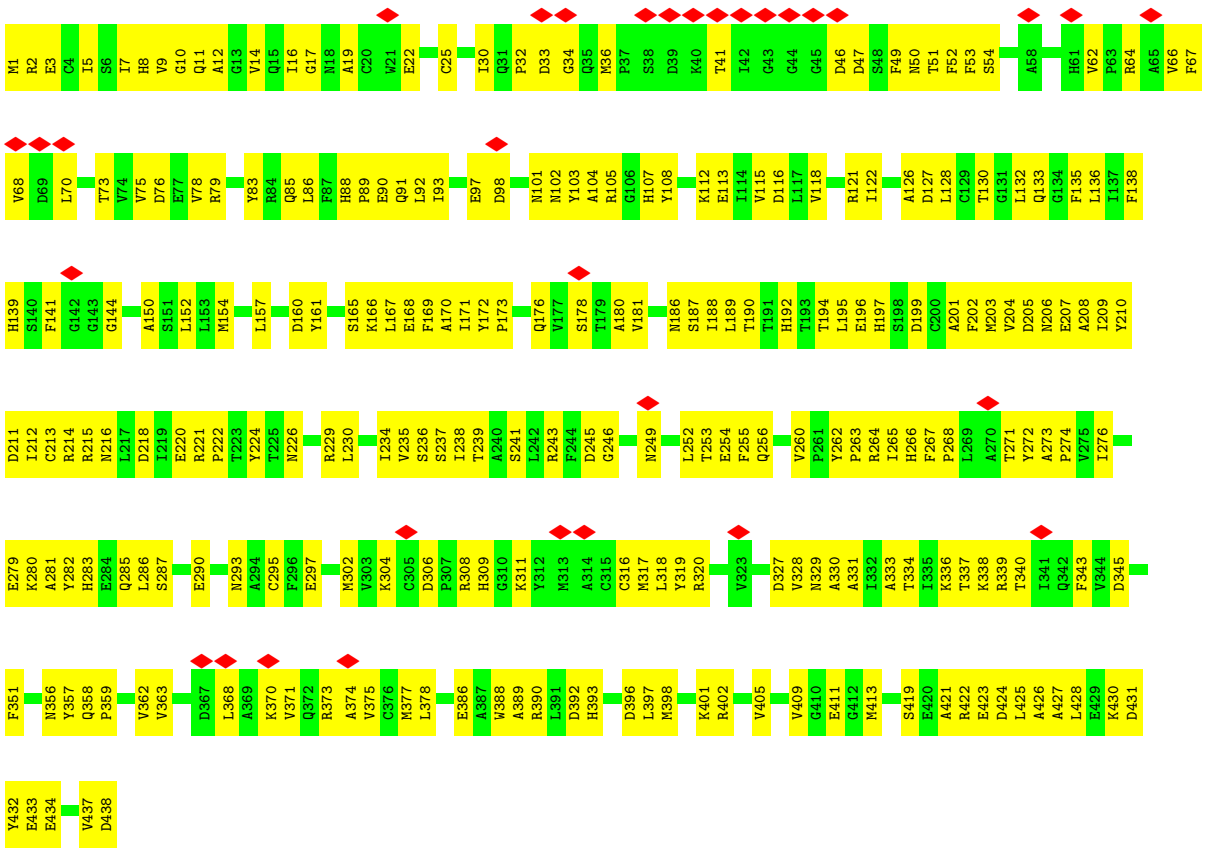




• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain AC:

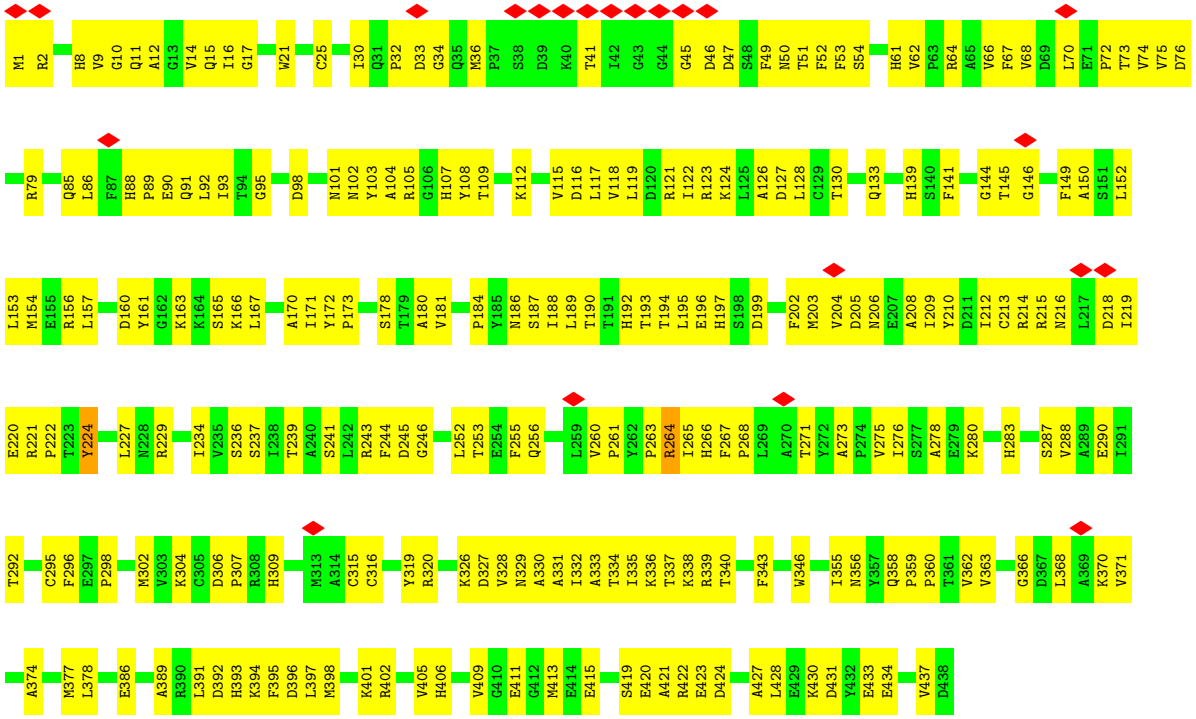




• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain AE:

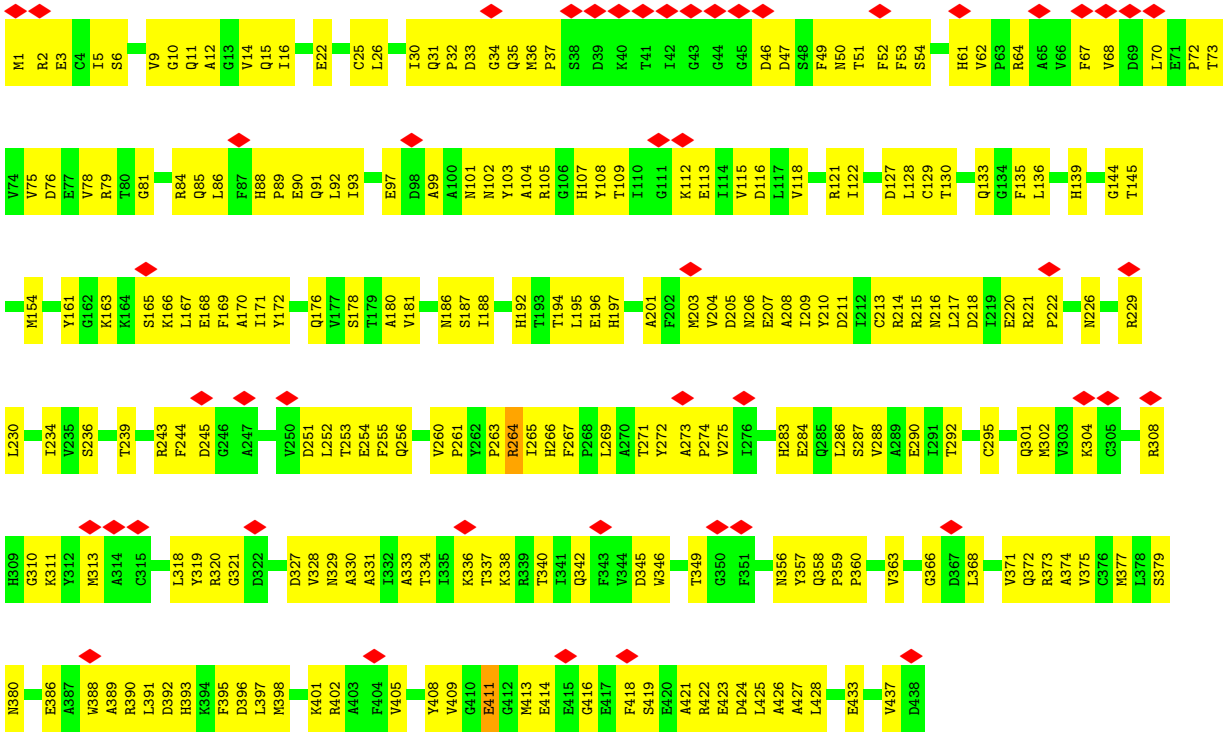




• Molecule 4: Detyrosinated tubulin alpha-3 chain

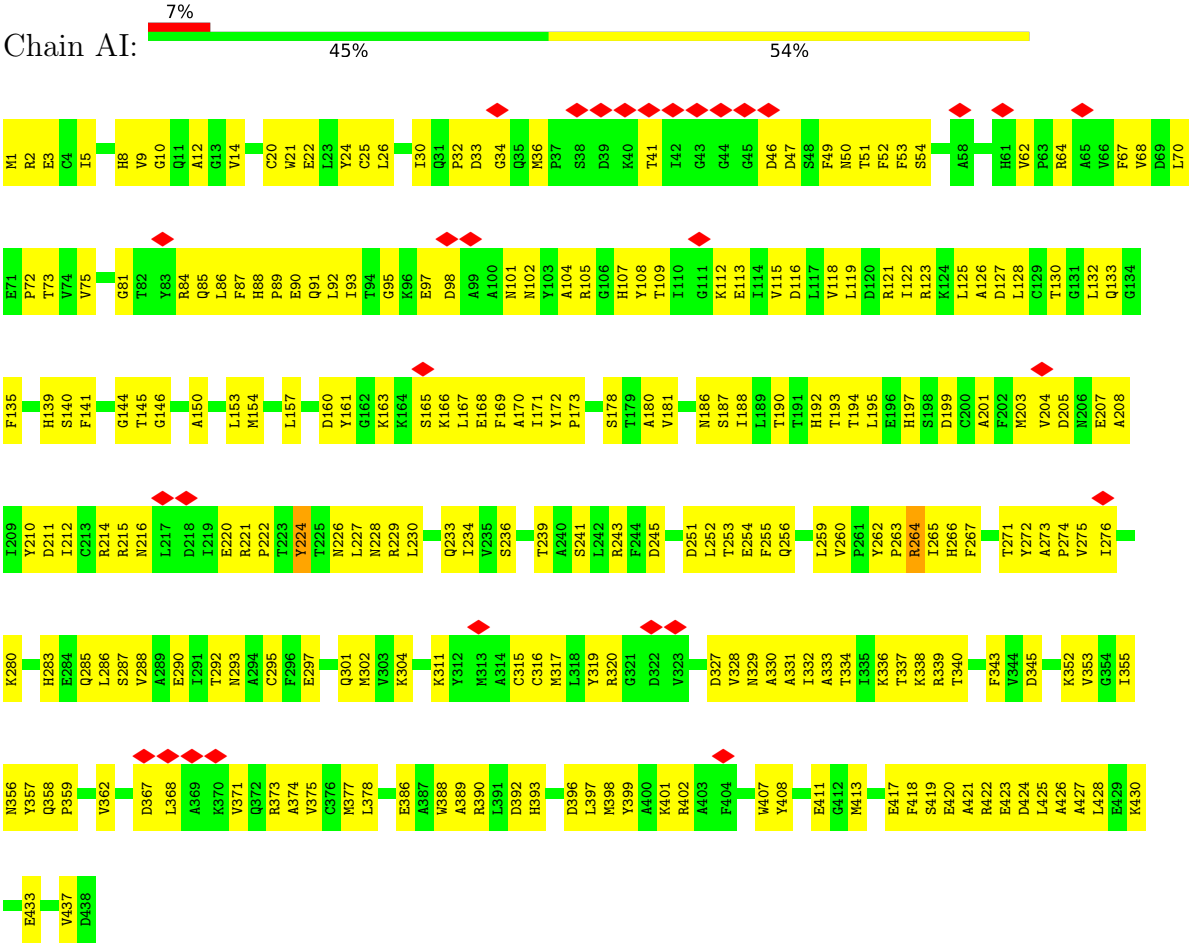
Chain AG:





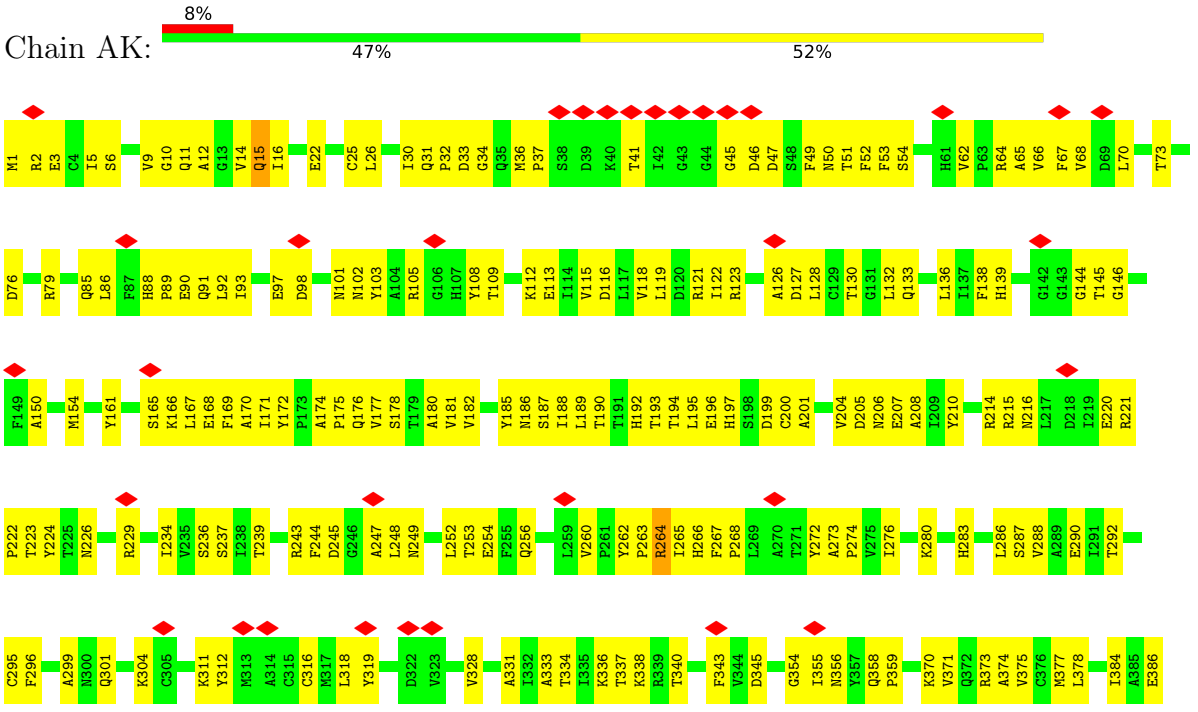
• Molecule 4: Detyrosinated tubulin alpha-3 chain

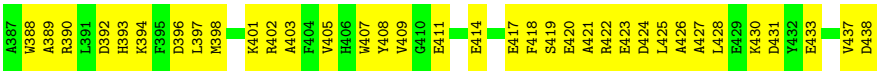
Chain AI:



• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain AK:

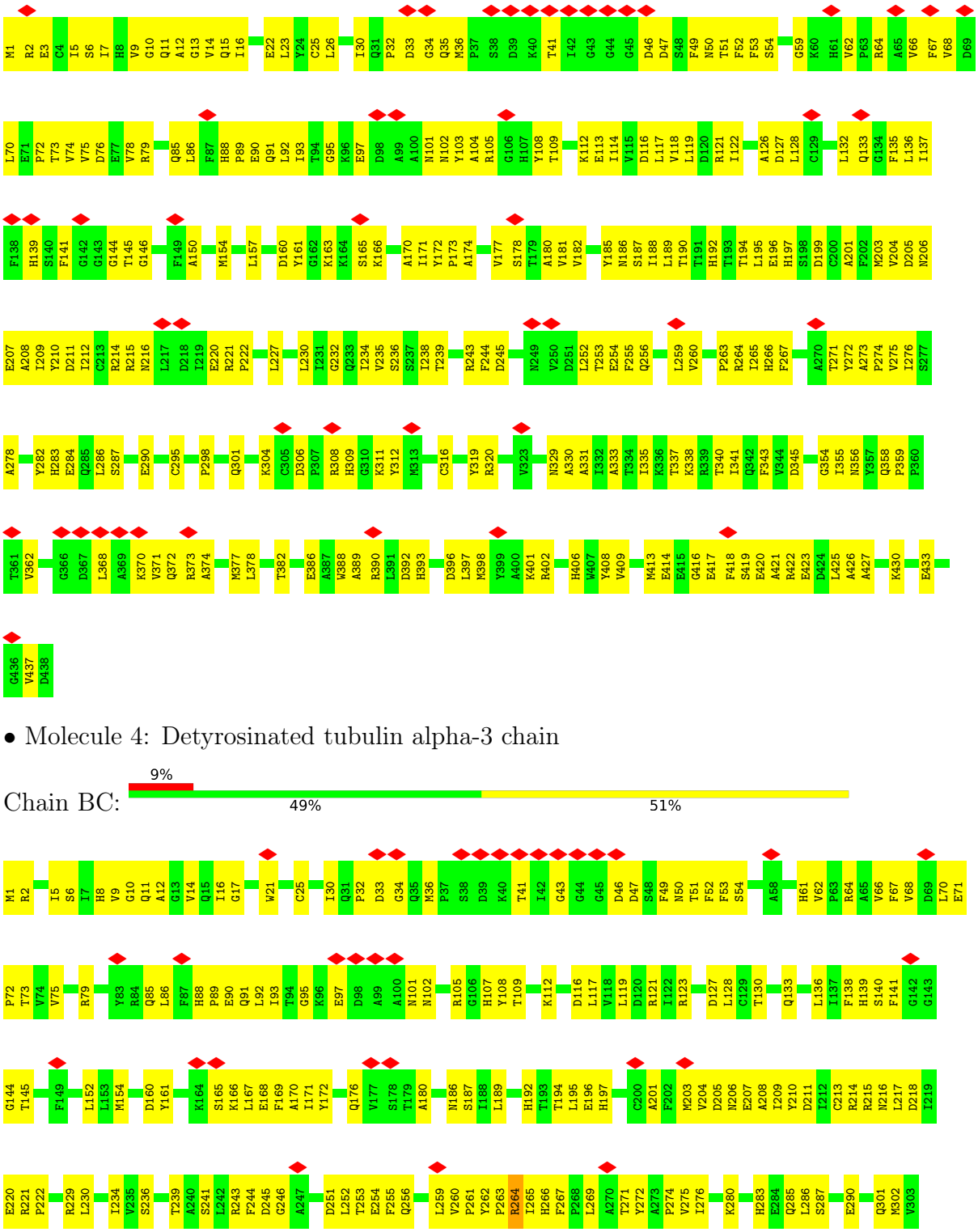




• Molecule 4: Detyrosinated tubulin alpha-3 chain

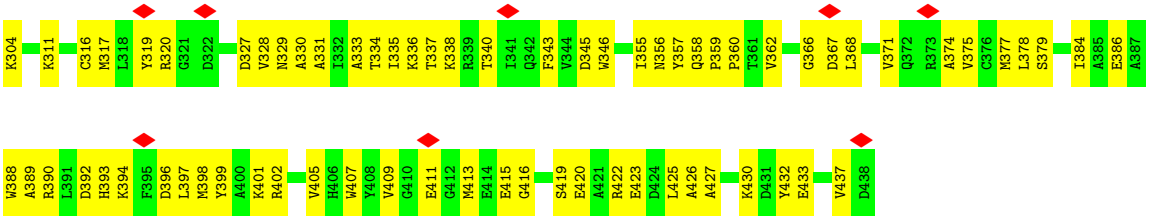
Chain AM:





• Molecule 4: Detyrosinated tubulin alpha-3 chain

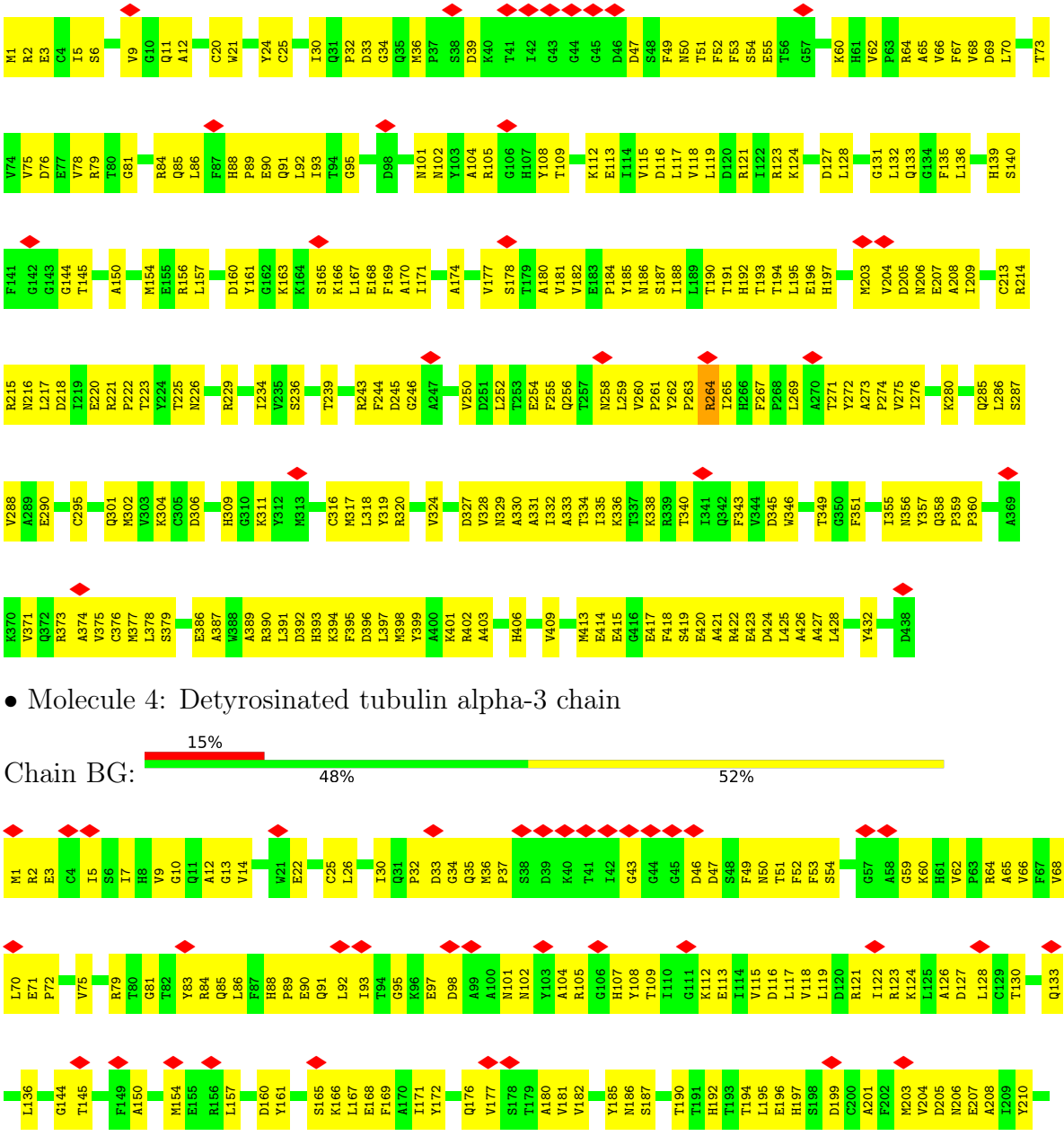
Chain BC:



• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain BE:





• Molecule 4: Detyrosinated tubulin alpha-3 chain

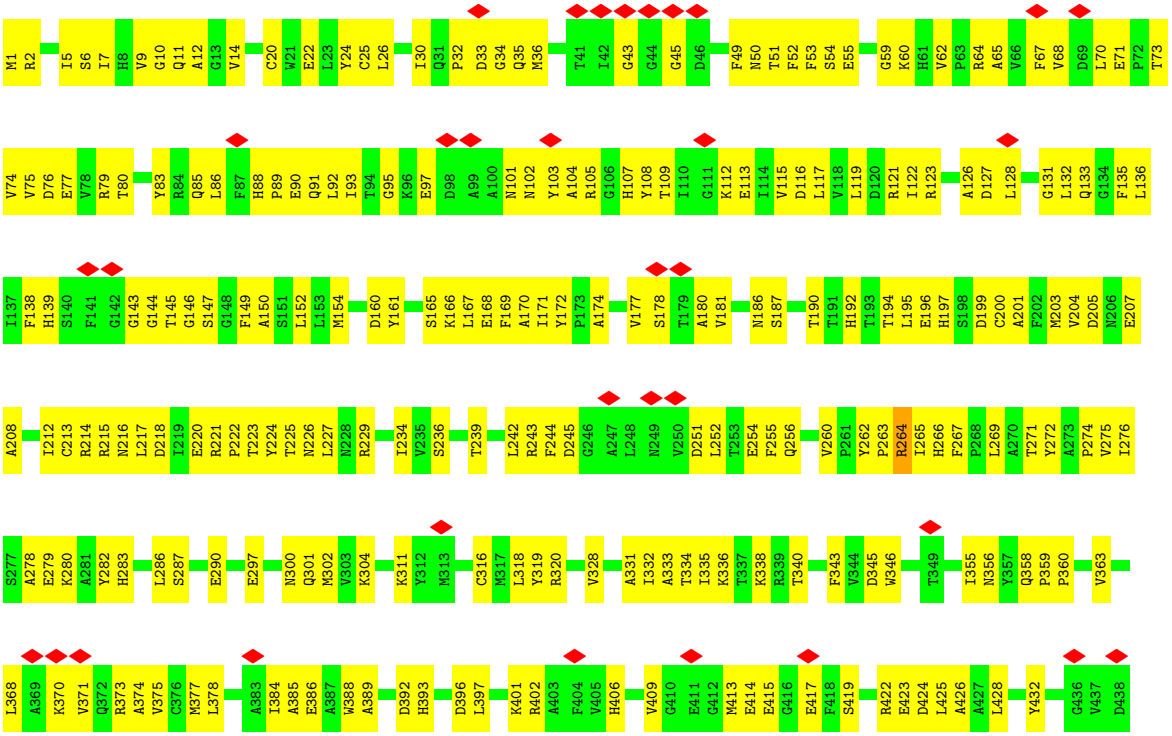
Chain BG:



• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain BI:

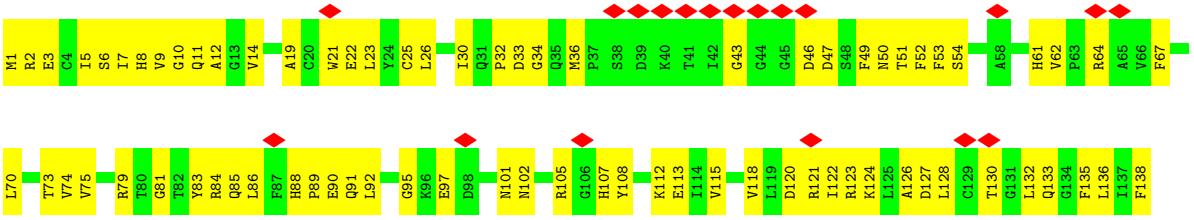


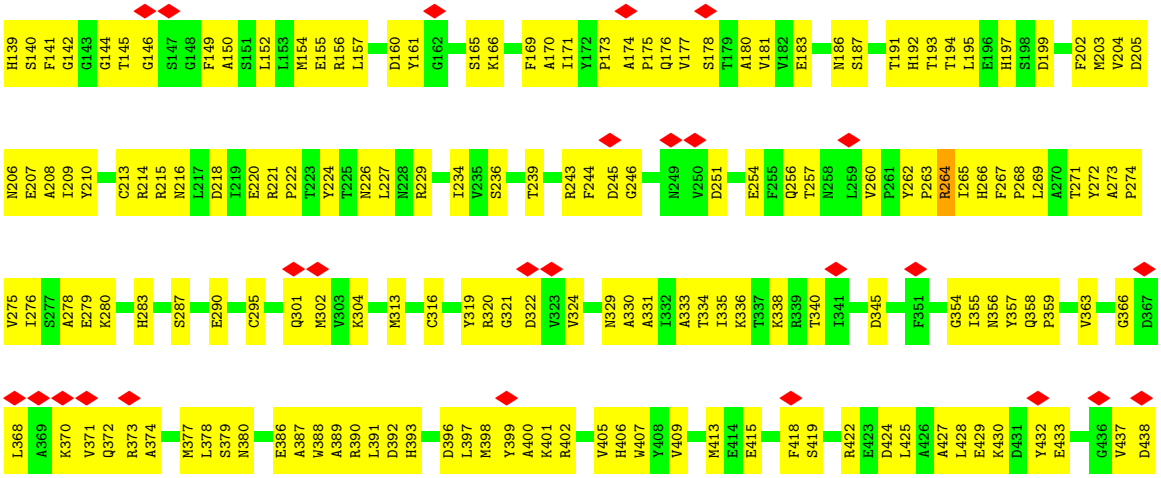


• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain BK:



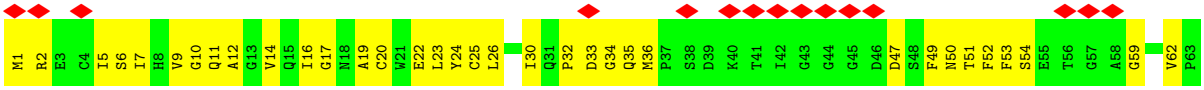


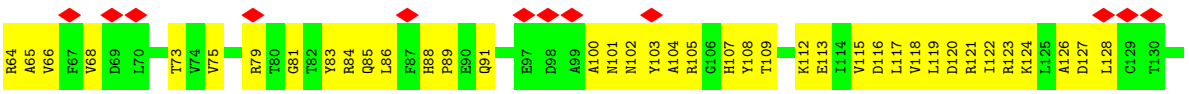


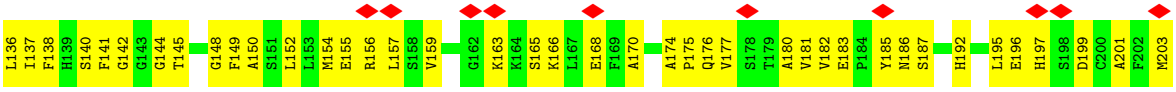
• Molecule 4: Detyrosinated tubulin alpha-3 chain

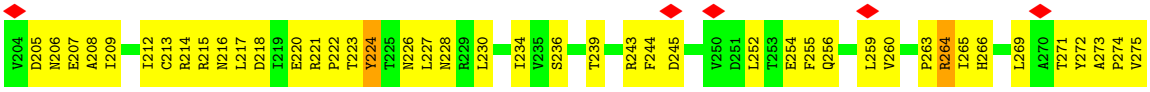
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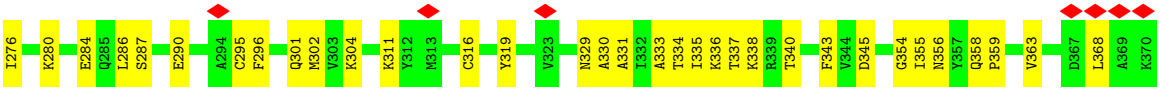










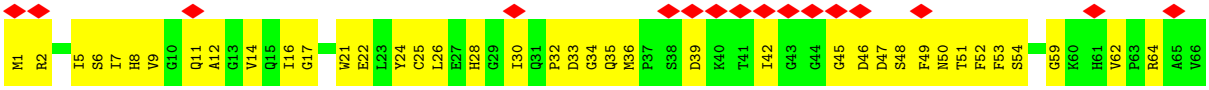


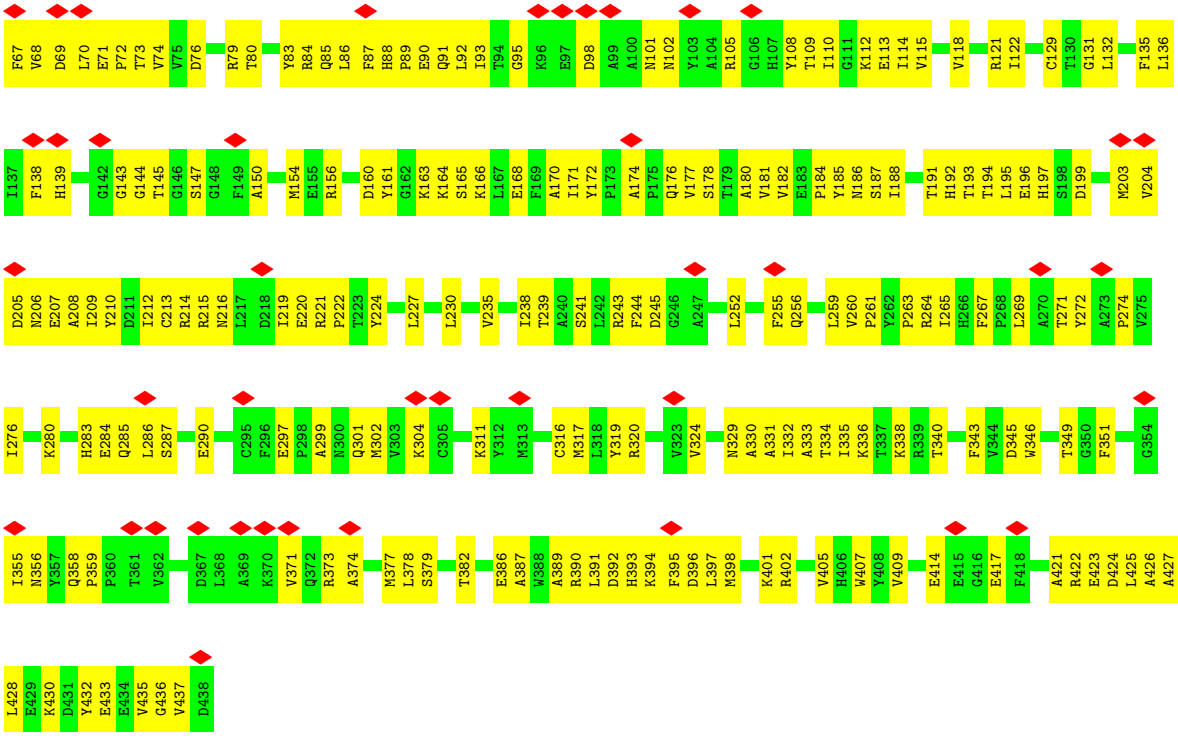


• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain CC:



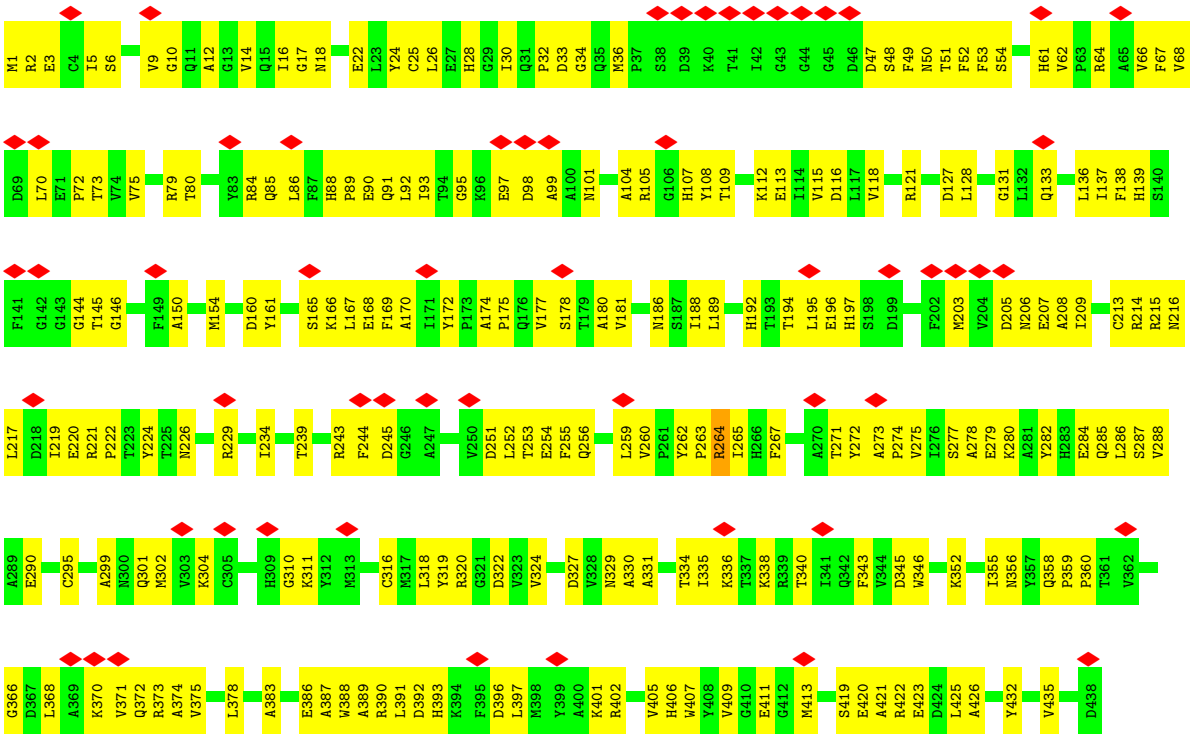




• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain CE:





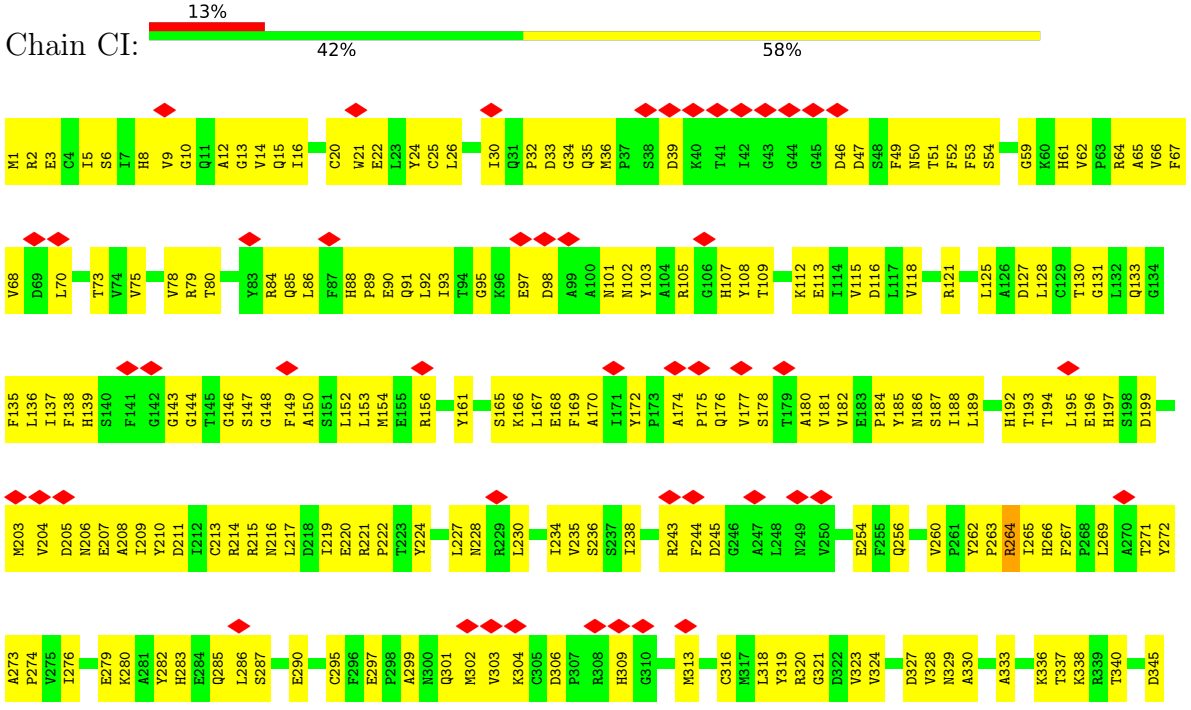
• Molecule 4: Detyrosinated tubulin alpha-3 chain

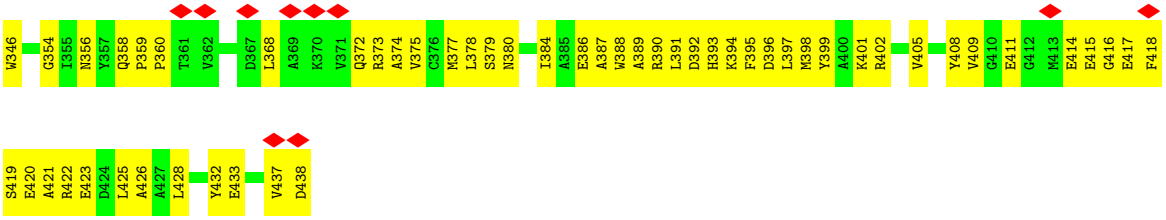
Chain CG:



• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain CI:

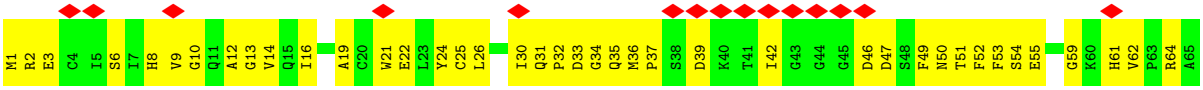


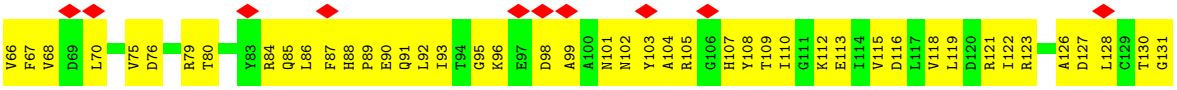


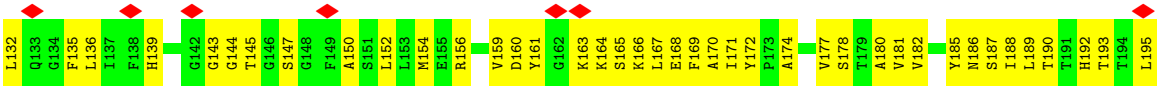
• Molecule 4: Detyrosinated tubulin alpha-3 chain

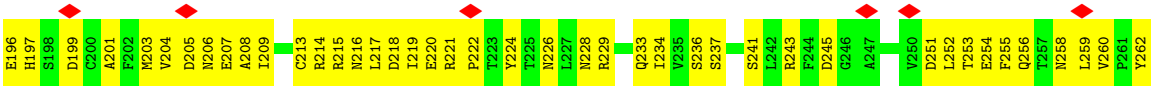
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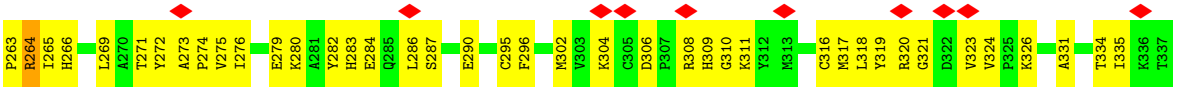


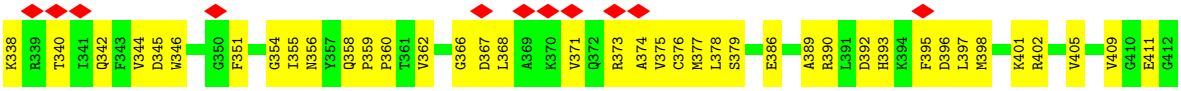










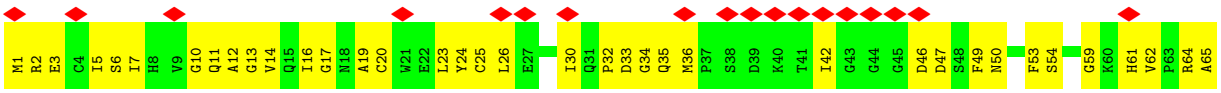


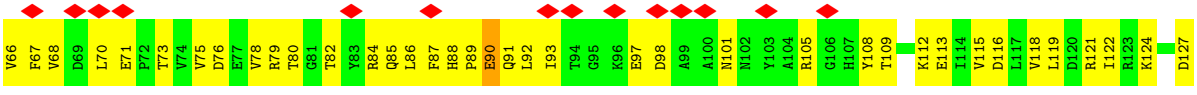


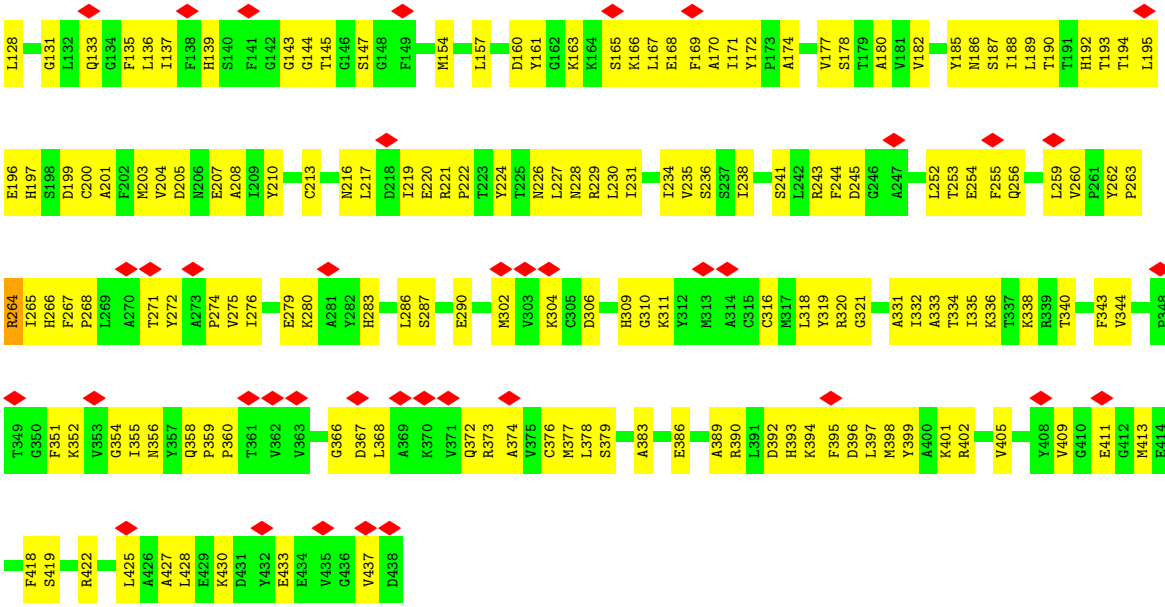
• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain CM:





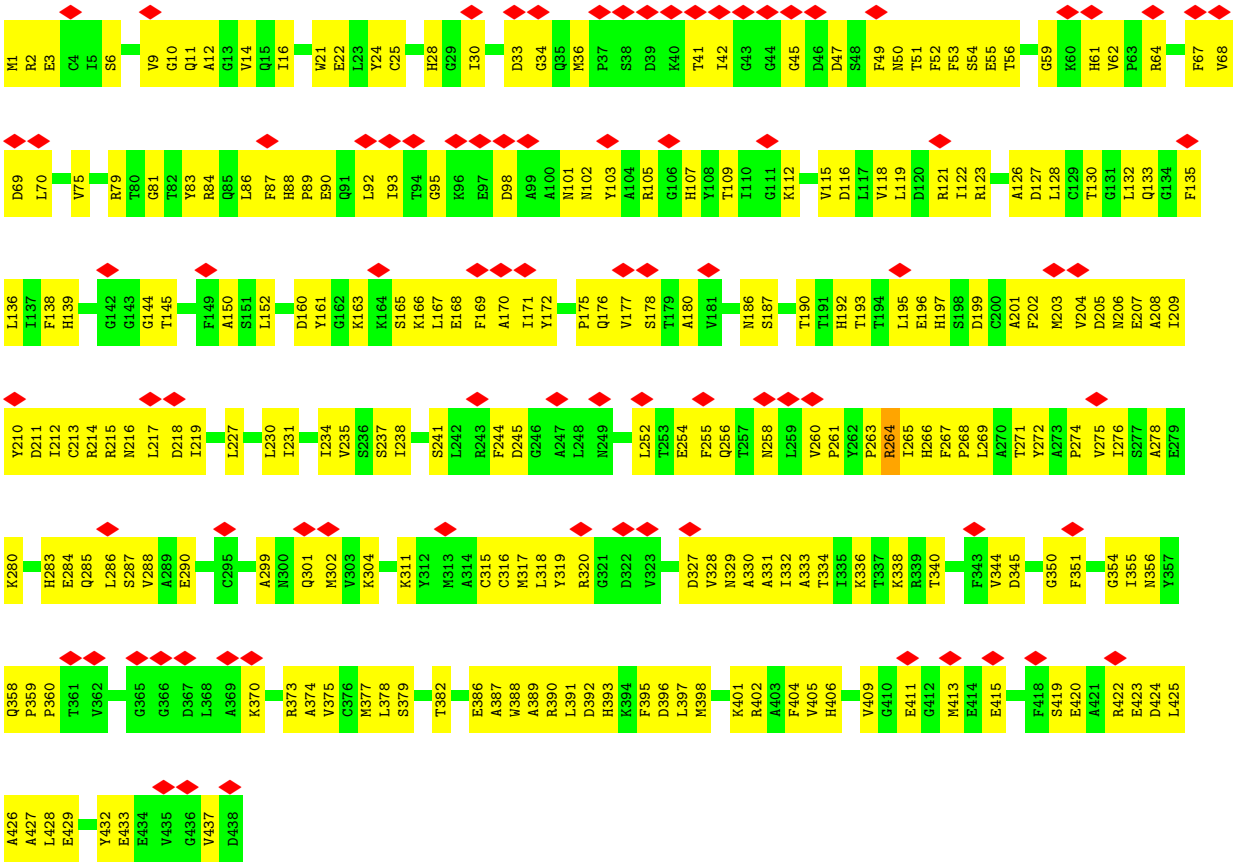




• Molecule 4: Detyrosinated tubulin alpha-3 chain

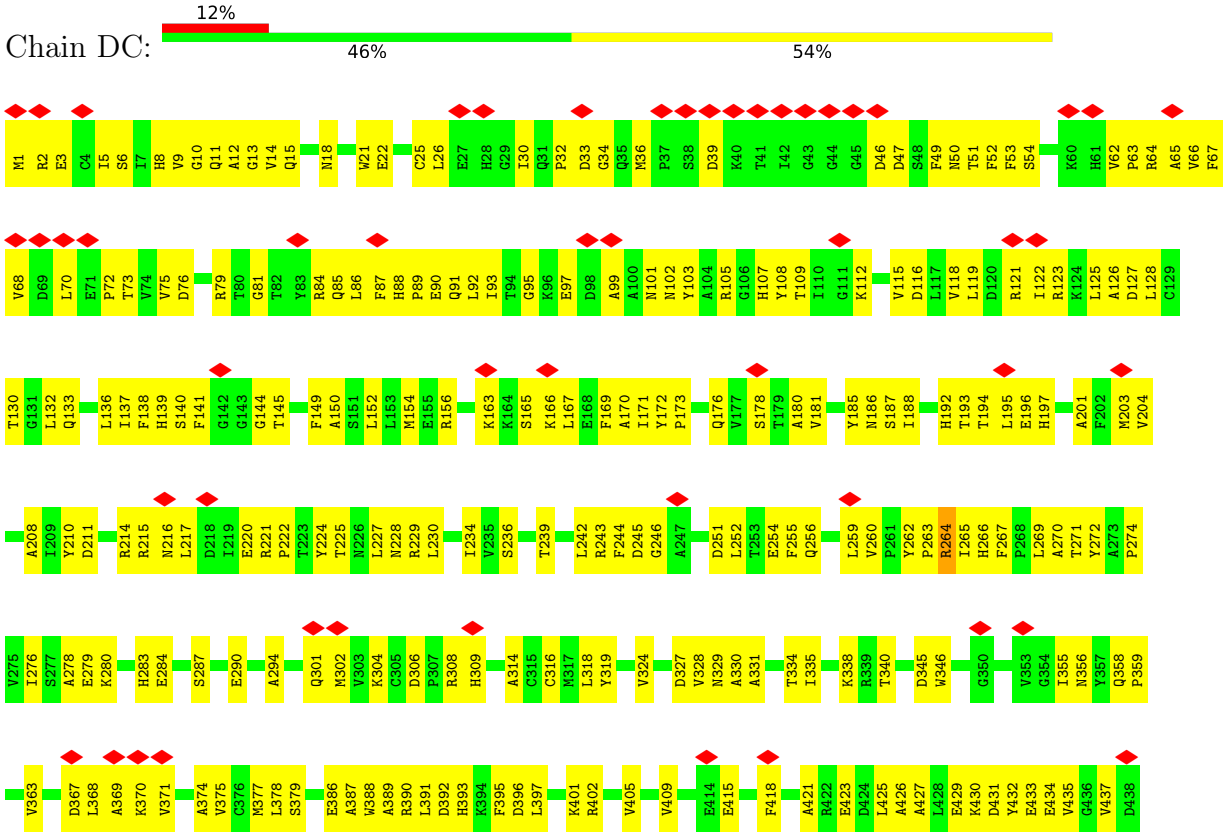
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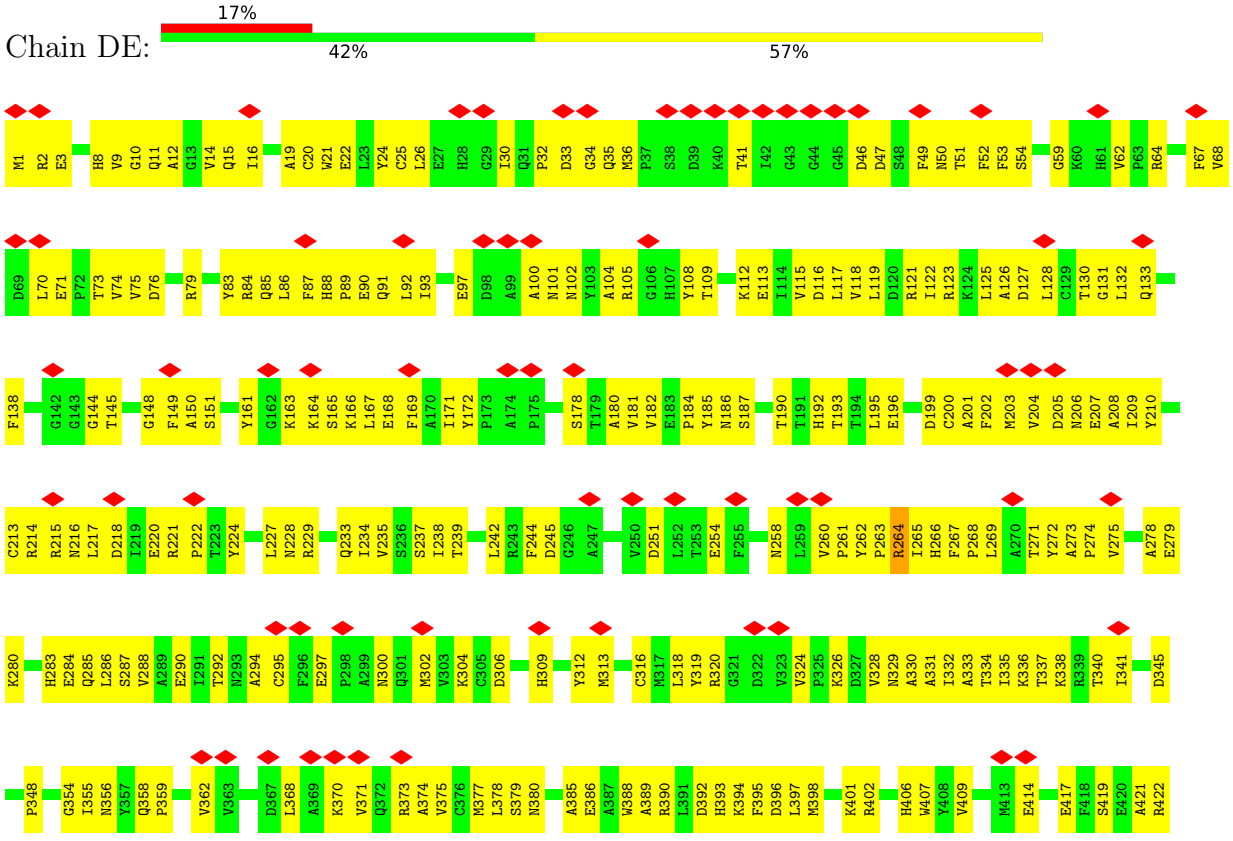
• Molecule 4: Detyrosinated tubulin alpha-3 chain

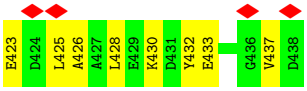
Chain DC:



• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain DE:

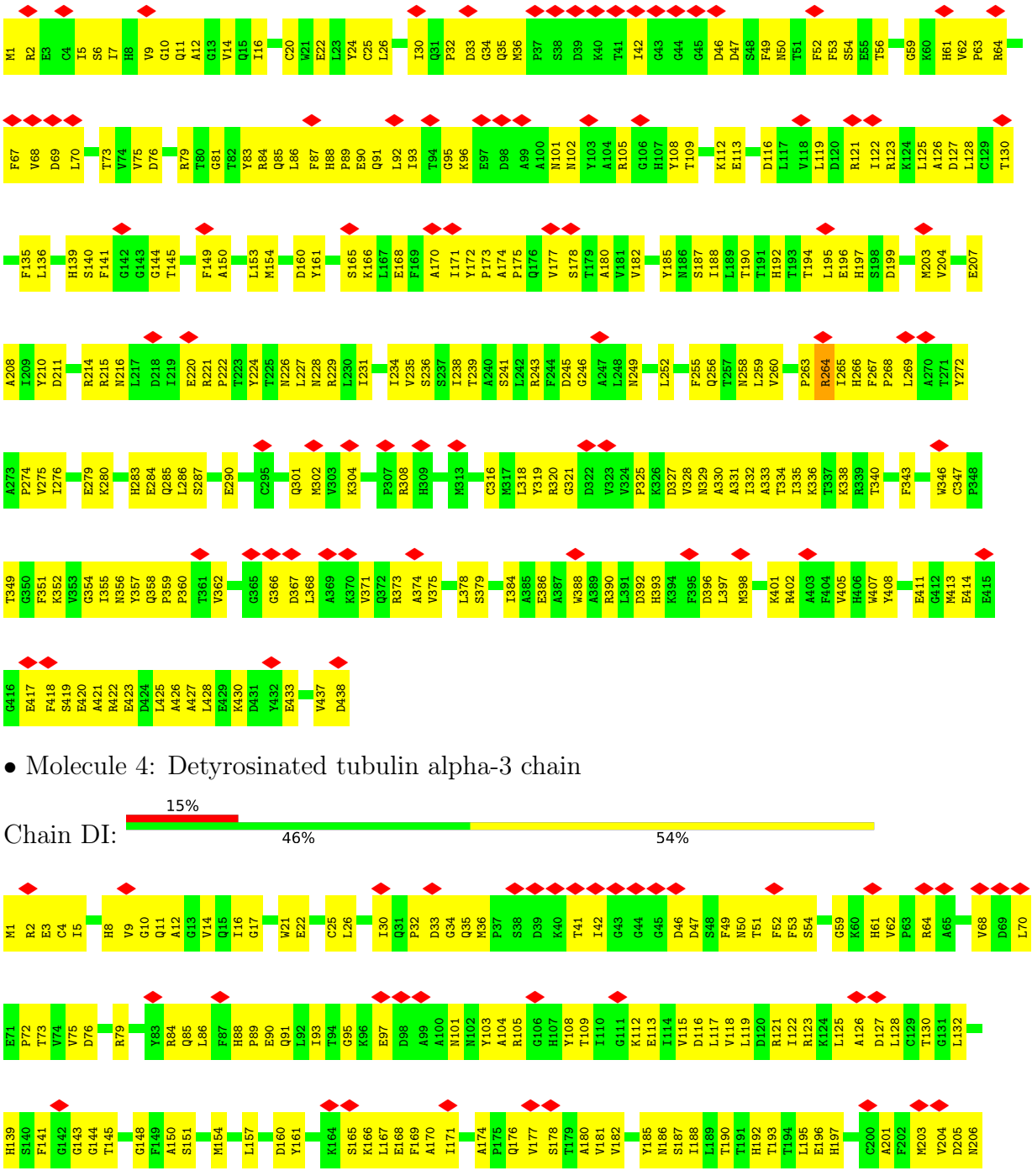




• Molecule 4: Detyrosinated tubulin alpha-3 chain

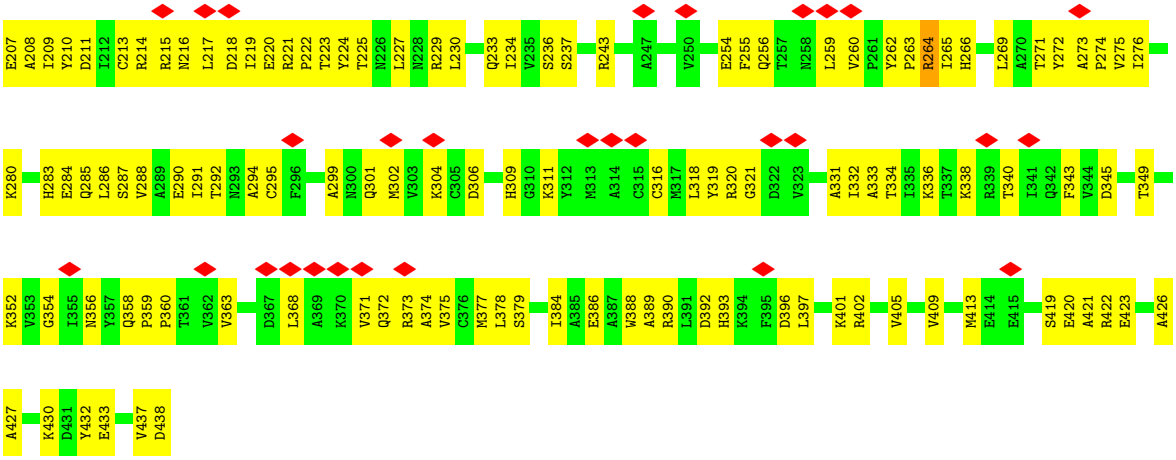
Chain DG:





• Molecule 4: Detyrosinated tubulin alpha-3 chain

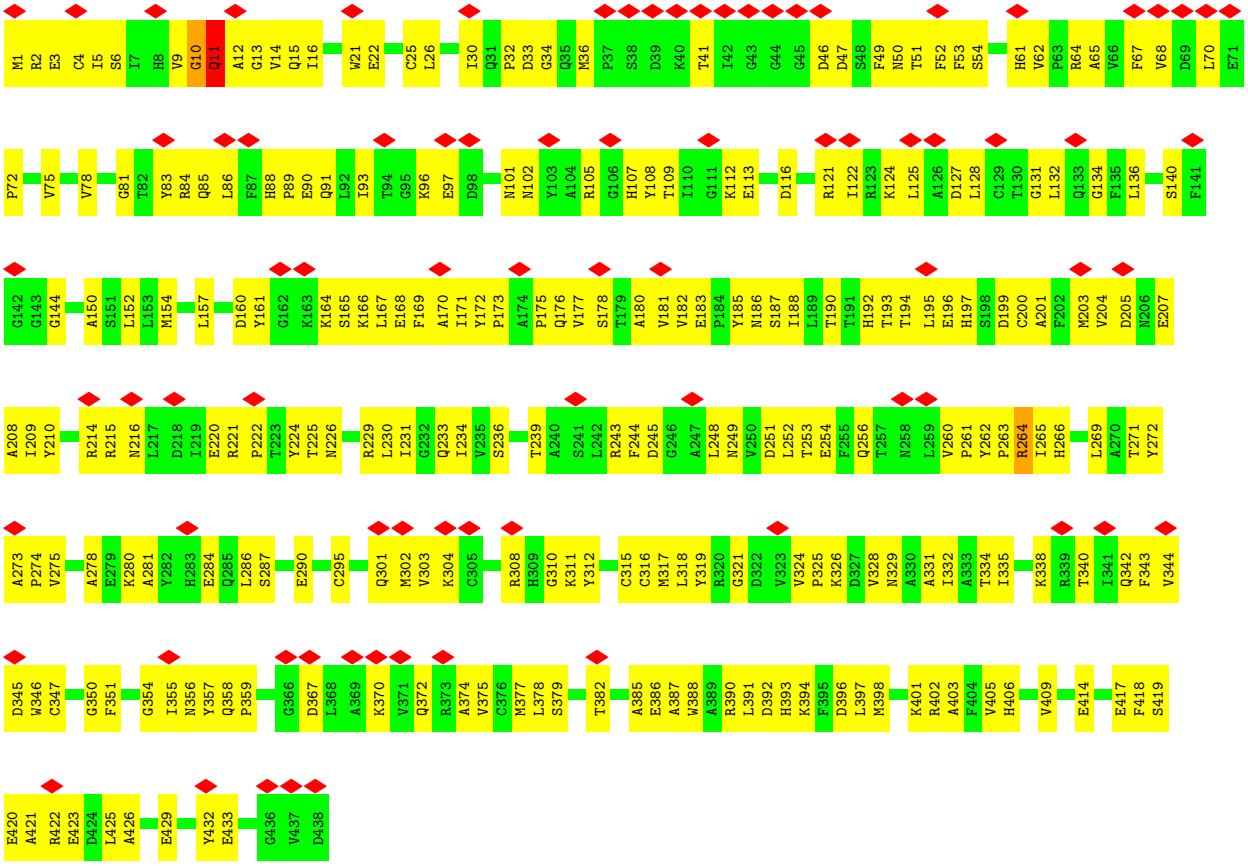
Chain DI:



• Molecule 4: Detyrosinated tubulin alpha-3 chain

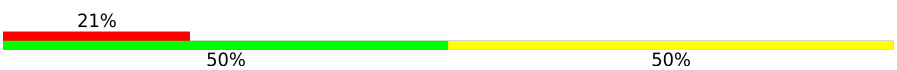
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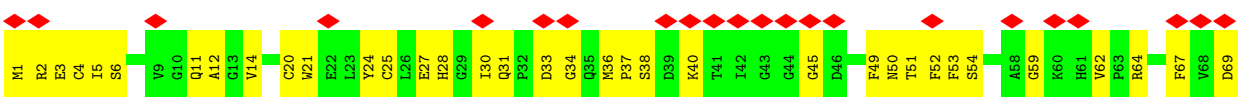


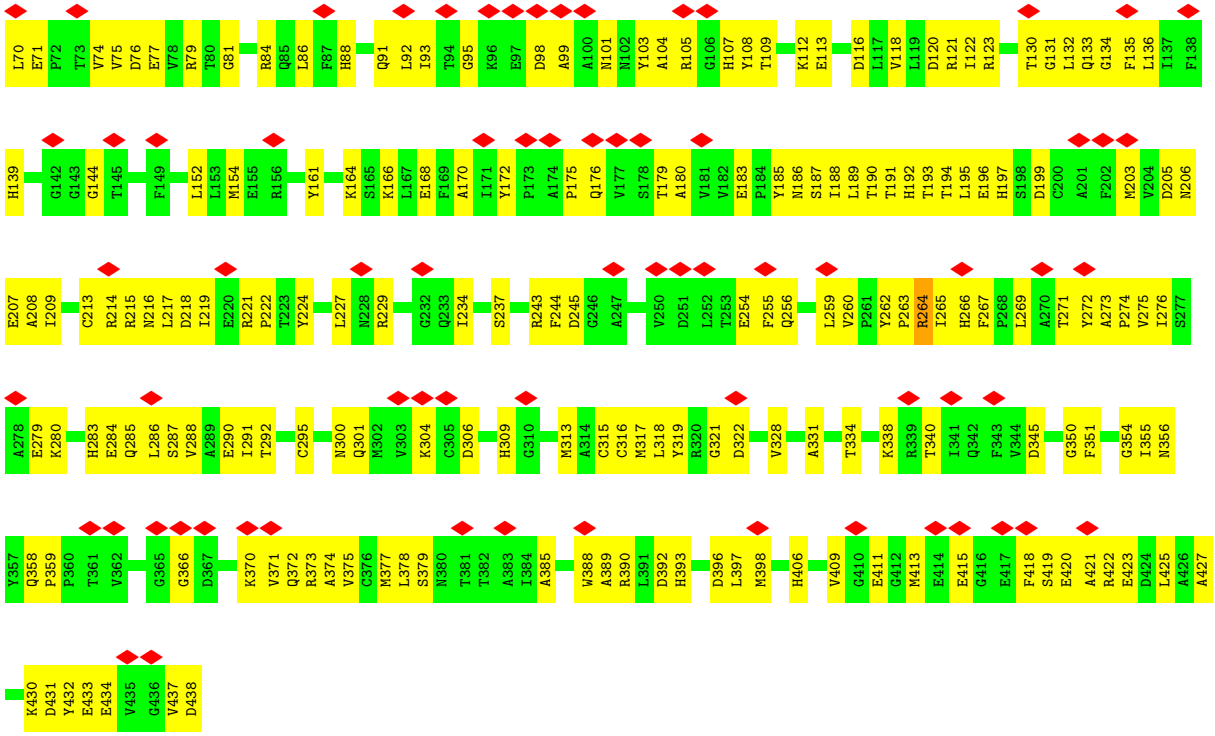


• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain EA:



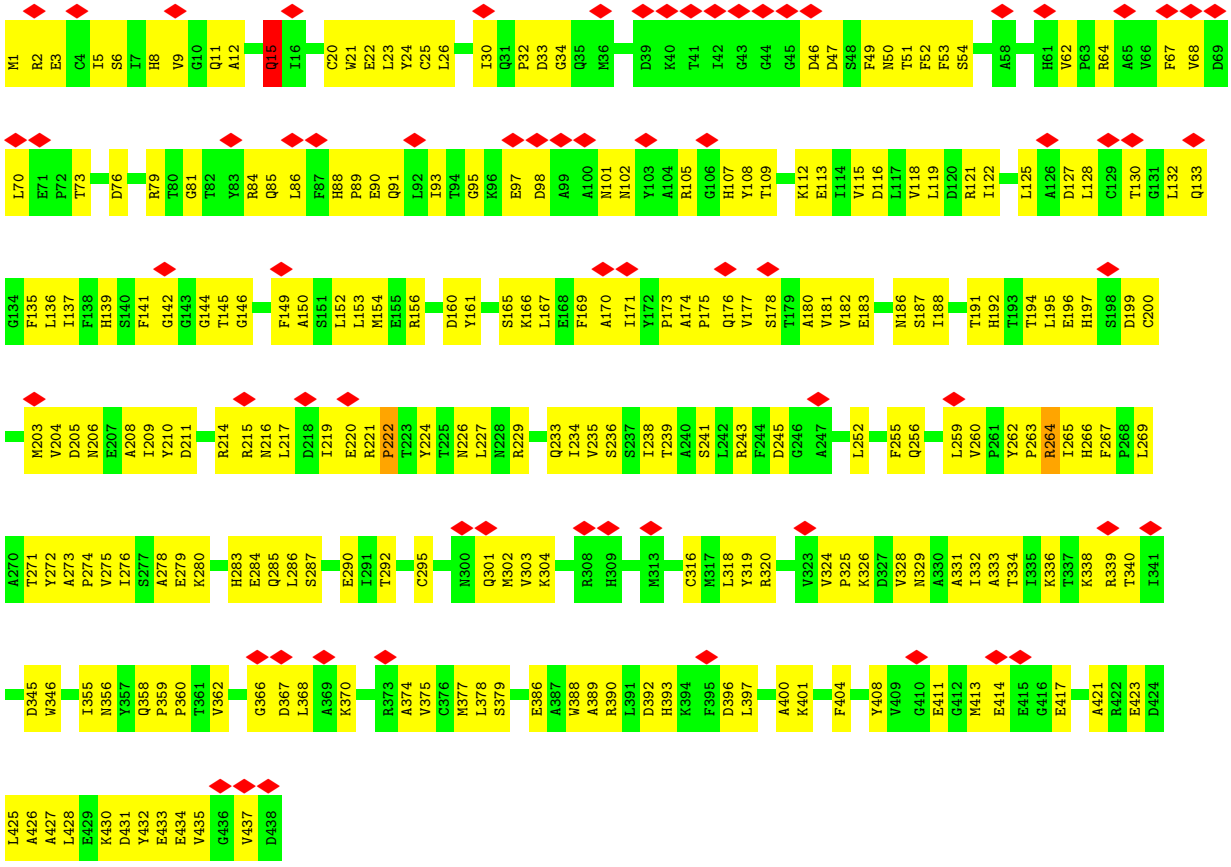




• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain EC:





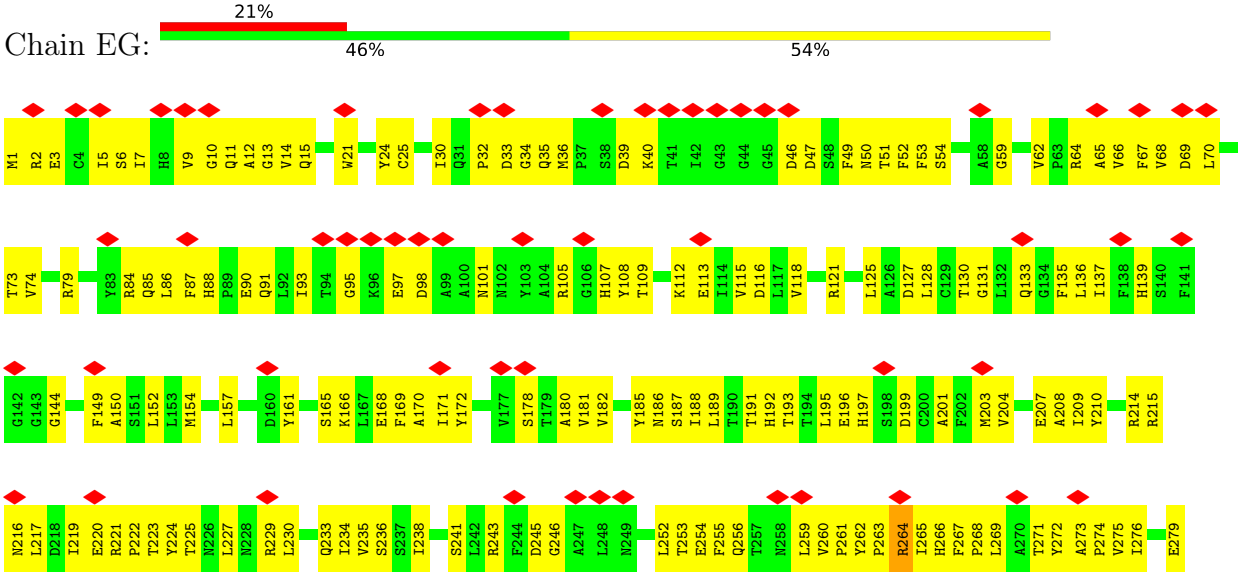
• Molecule 4: Detyrosinated tubulin alpha-3 chain

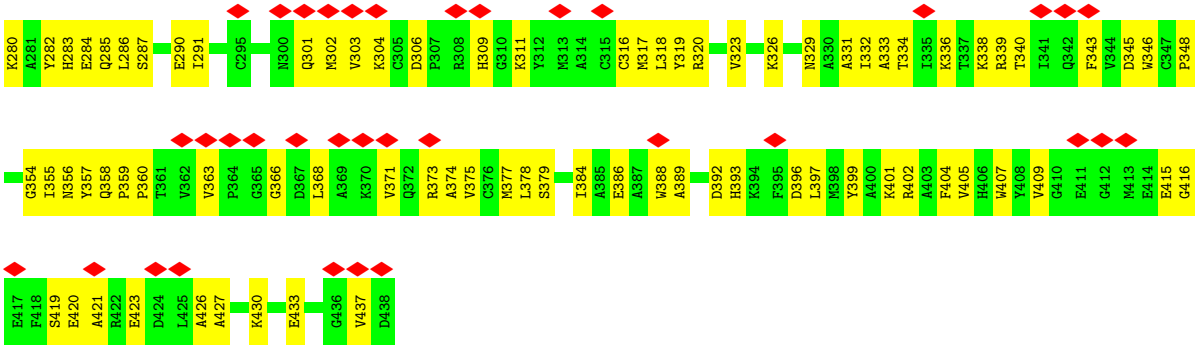
Chain EE:



• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain EG:

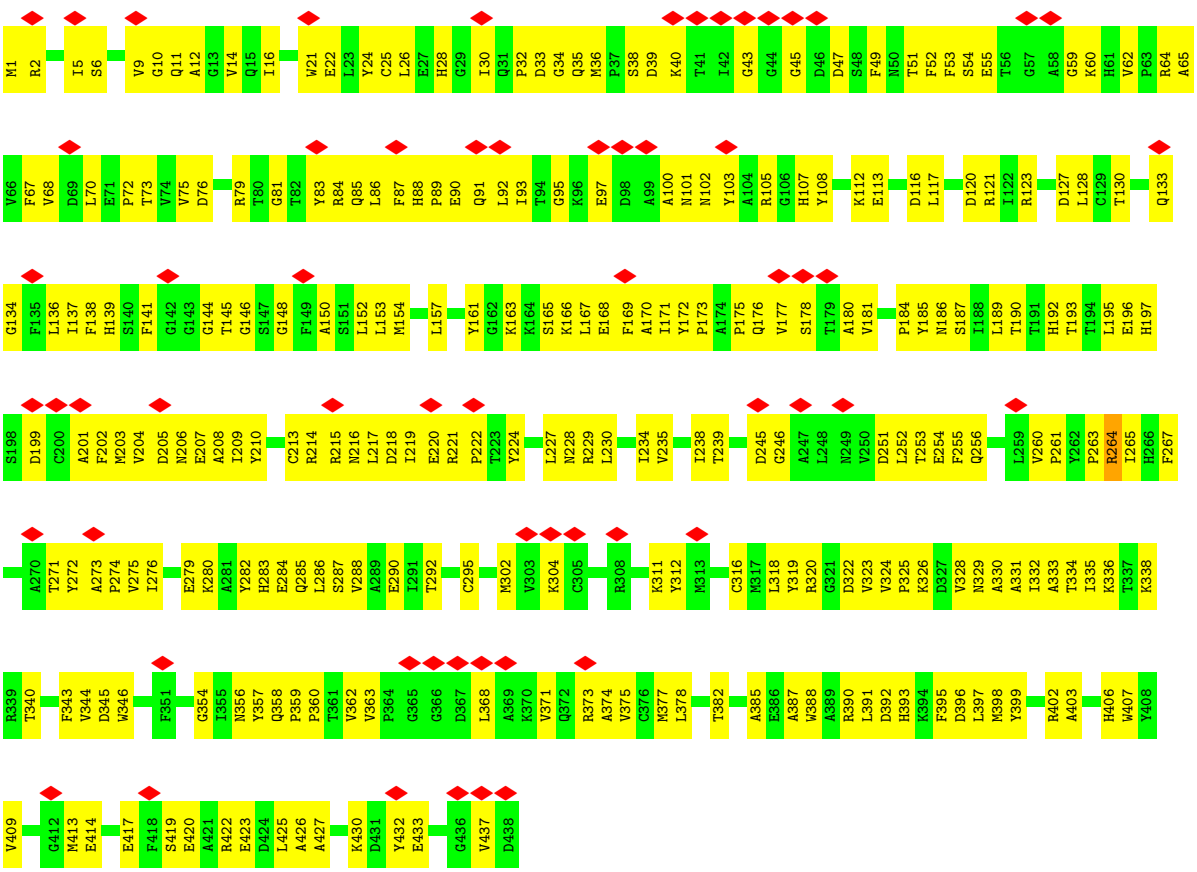




• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain EI:

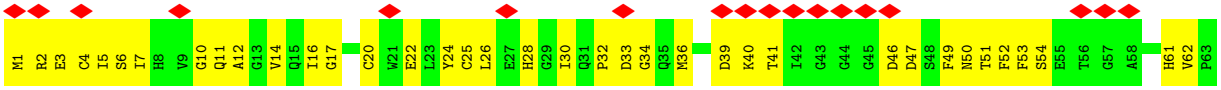


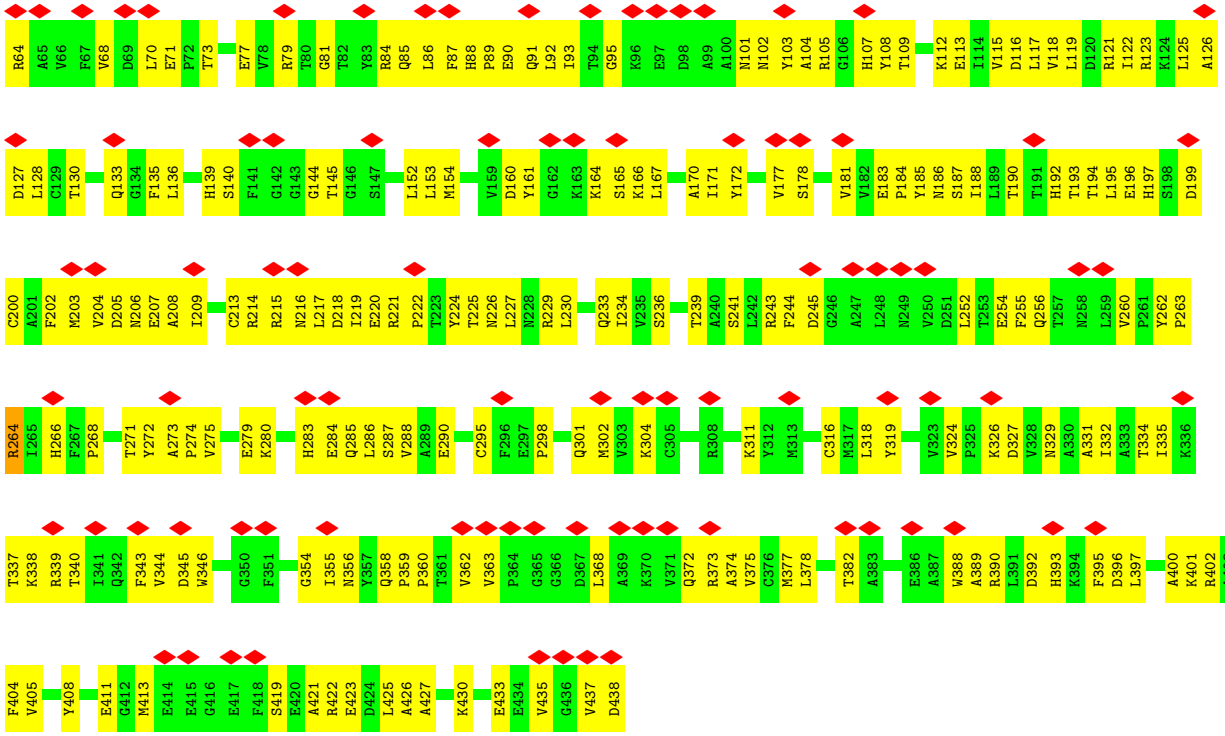


• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain EK:



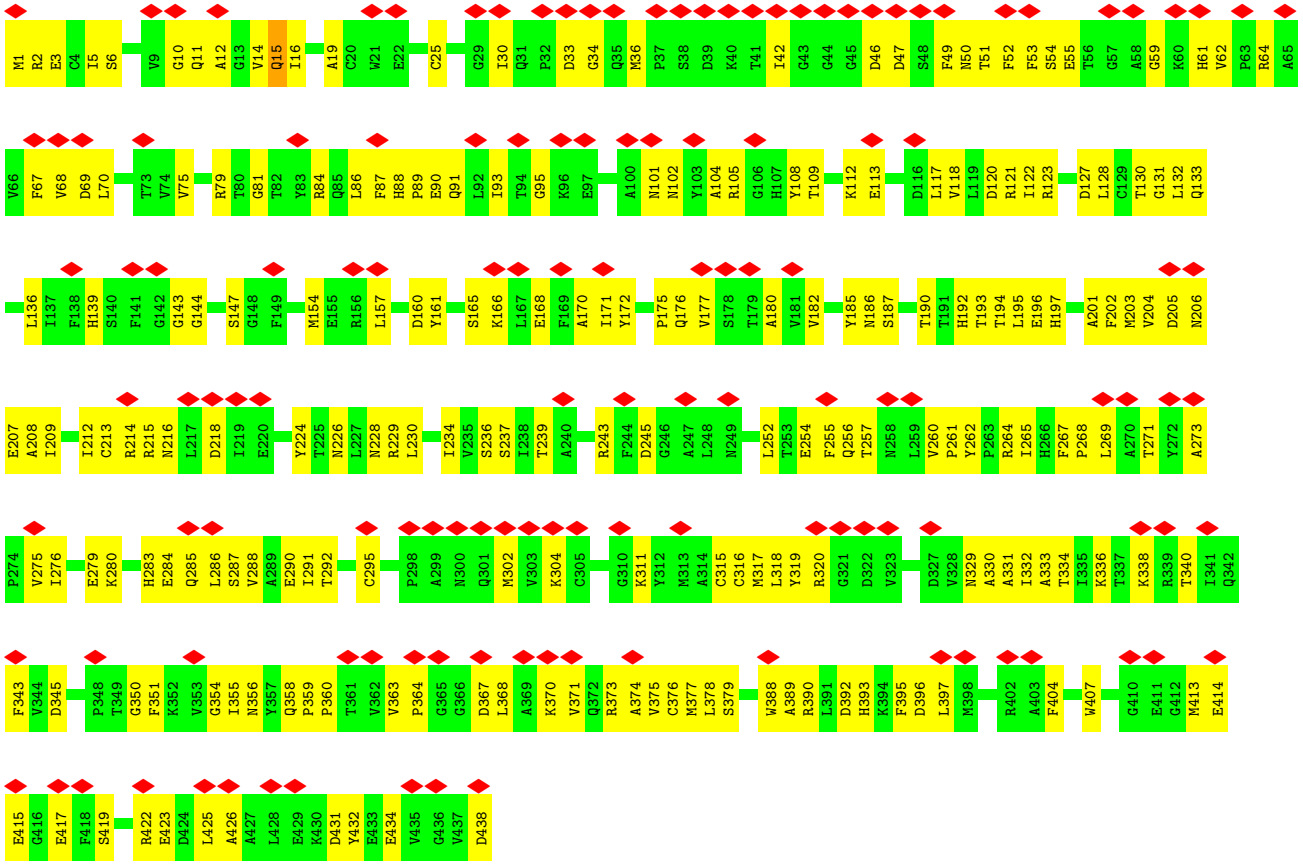




• Molecule 4: Detyrosinated tubulin alpha-3 chain

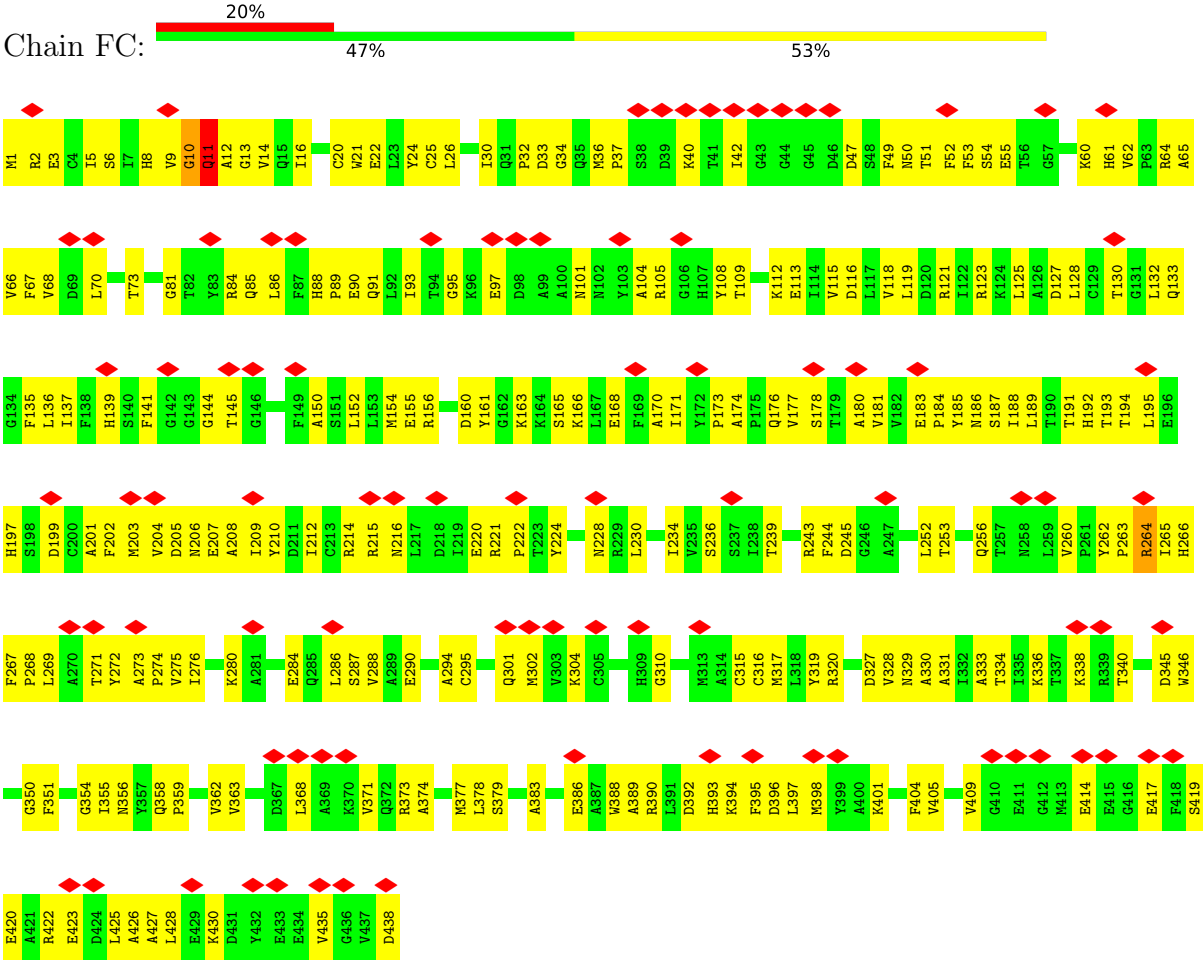
Chain FA:





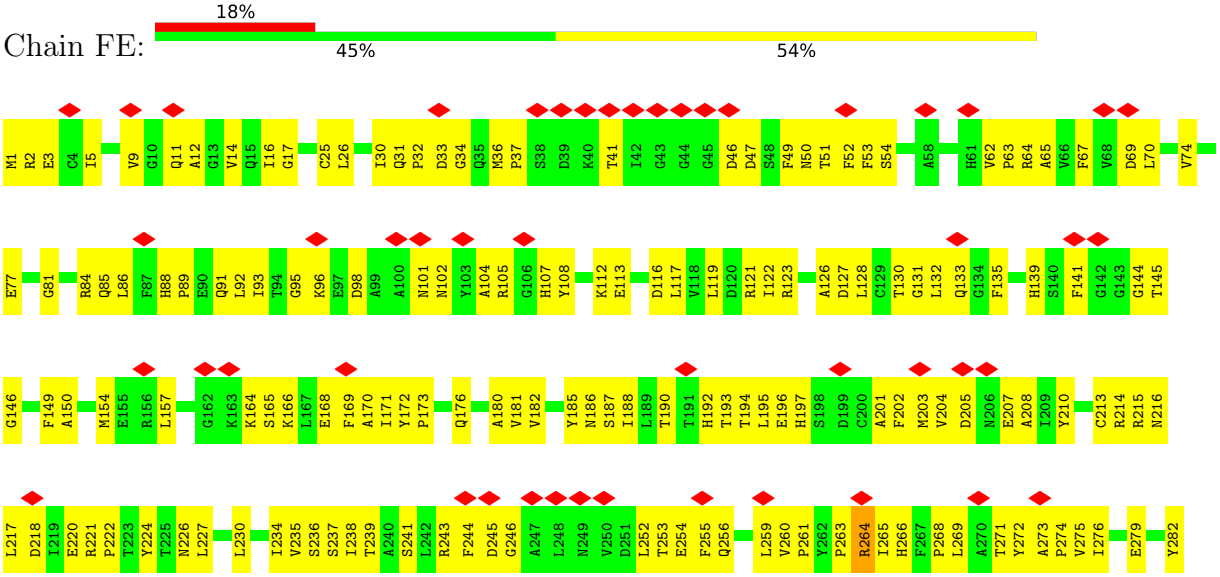
• Molecule 4: Detyrosinated tubulin alpha-3 chain

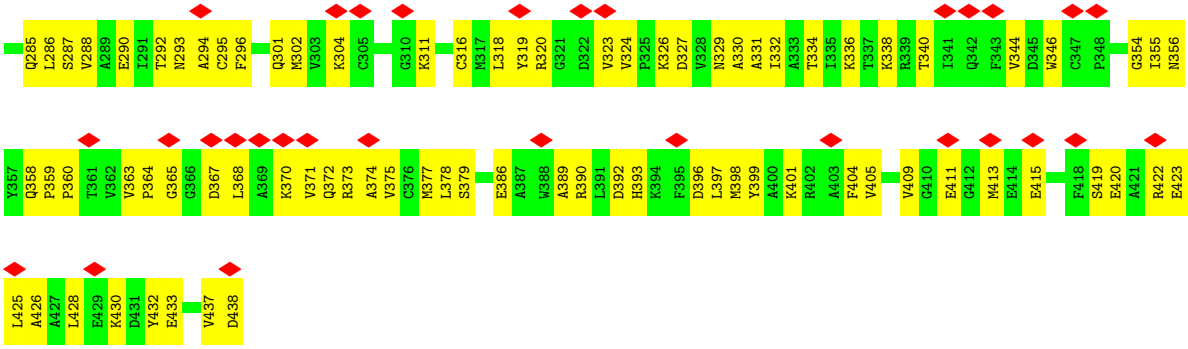
Chain FC:



• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain FE:

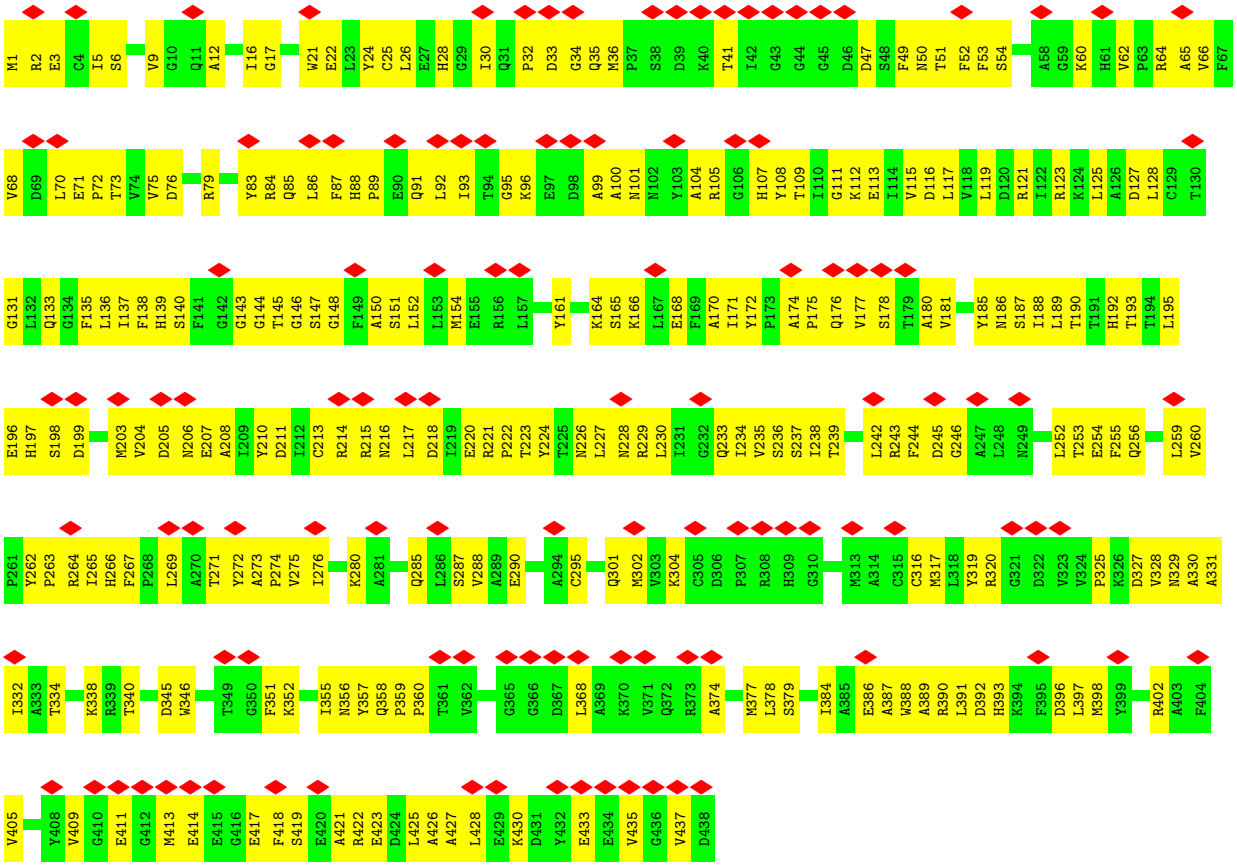




• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain FG:

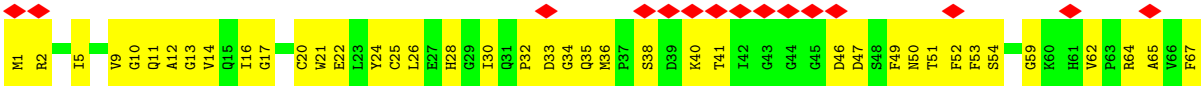


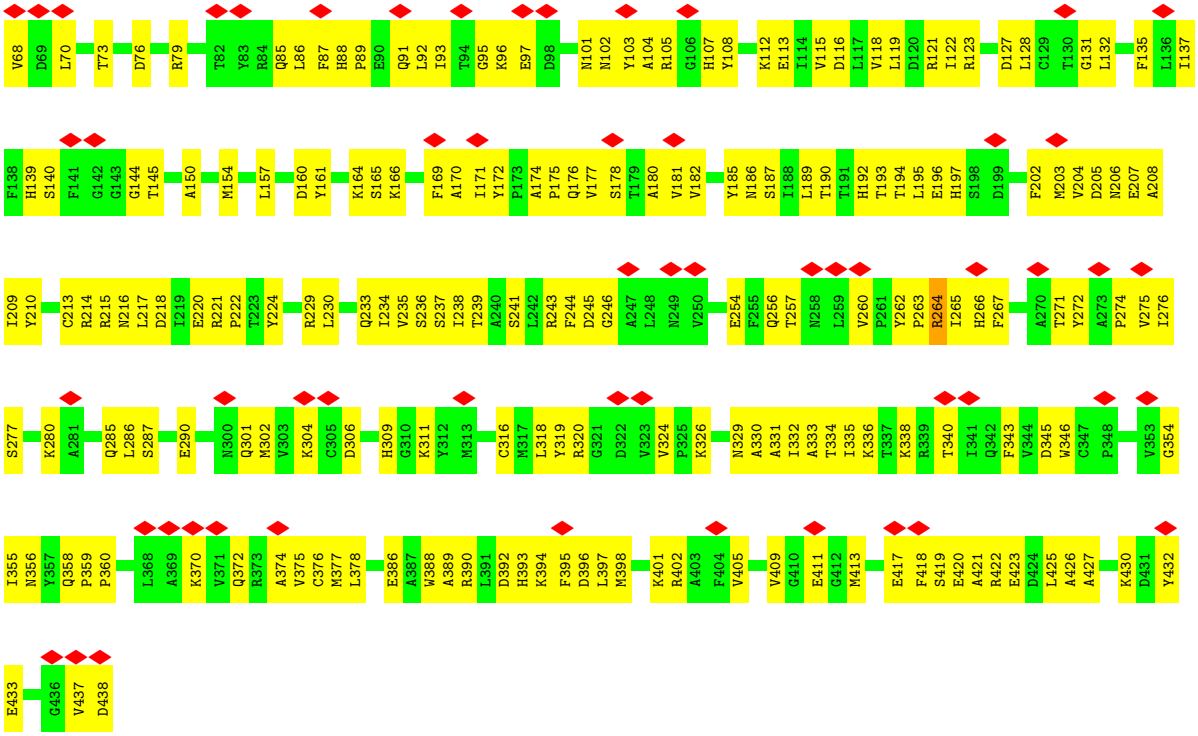


• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain FI:



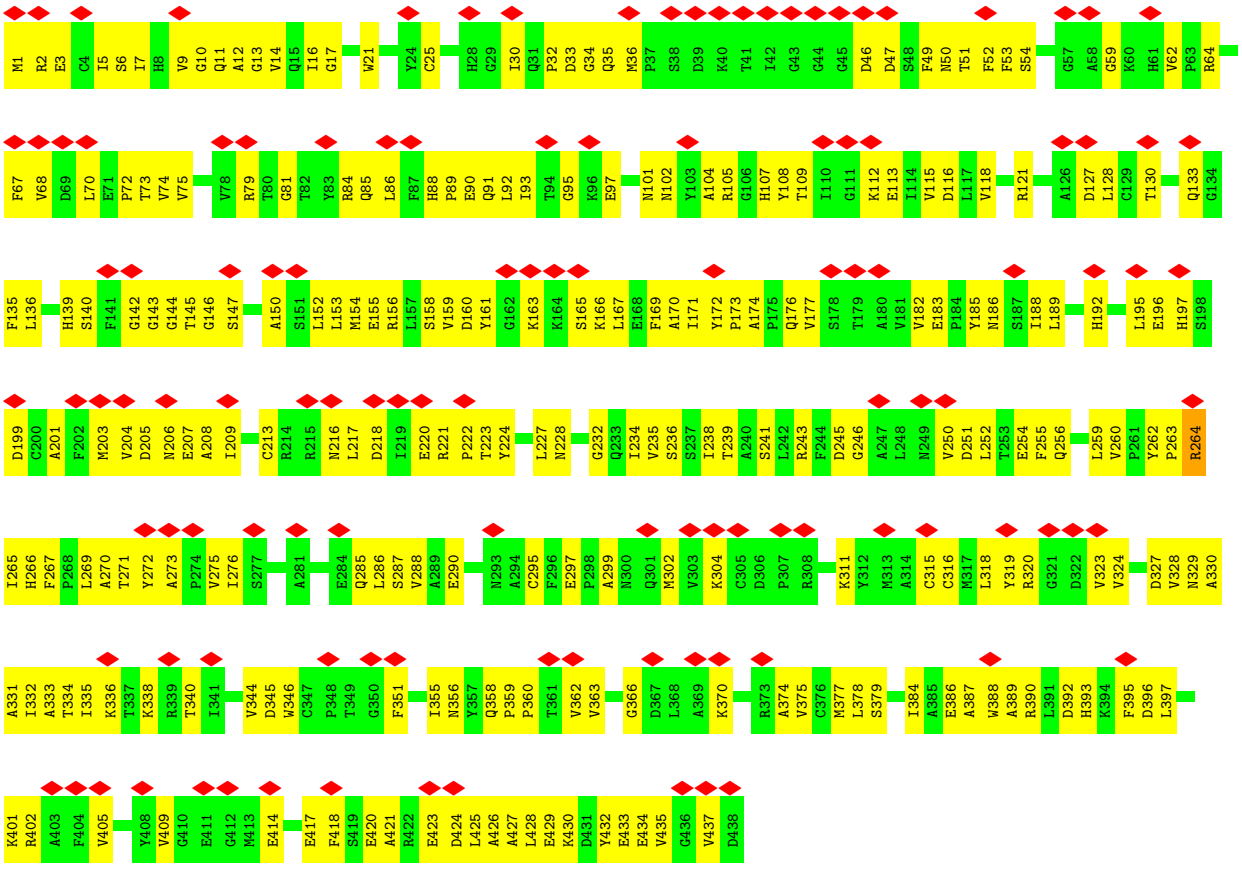




• Molecule 4: Detyrosinated tubulin alpha-3 chain

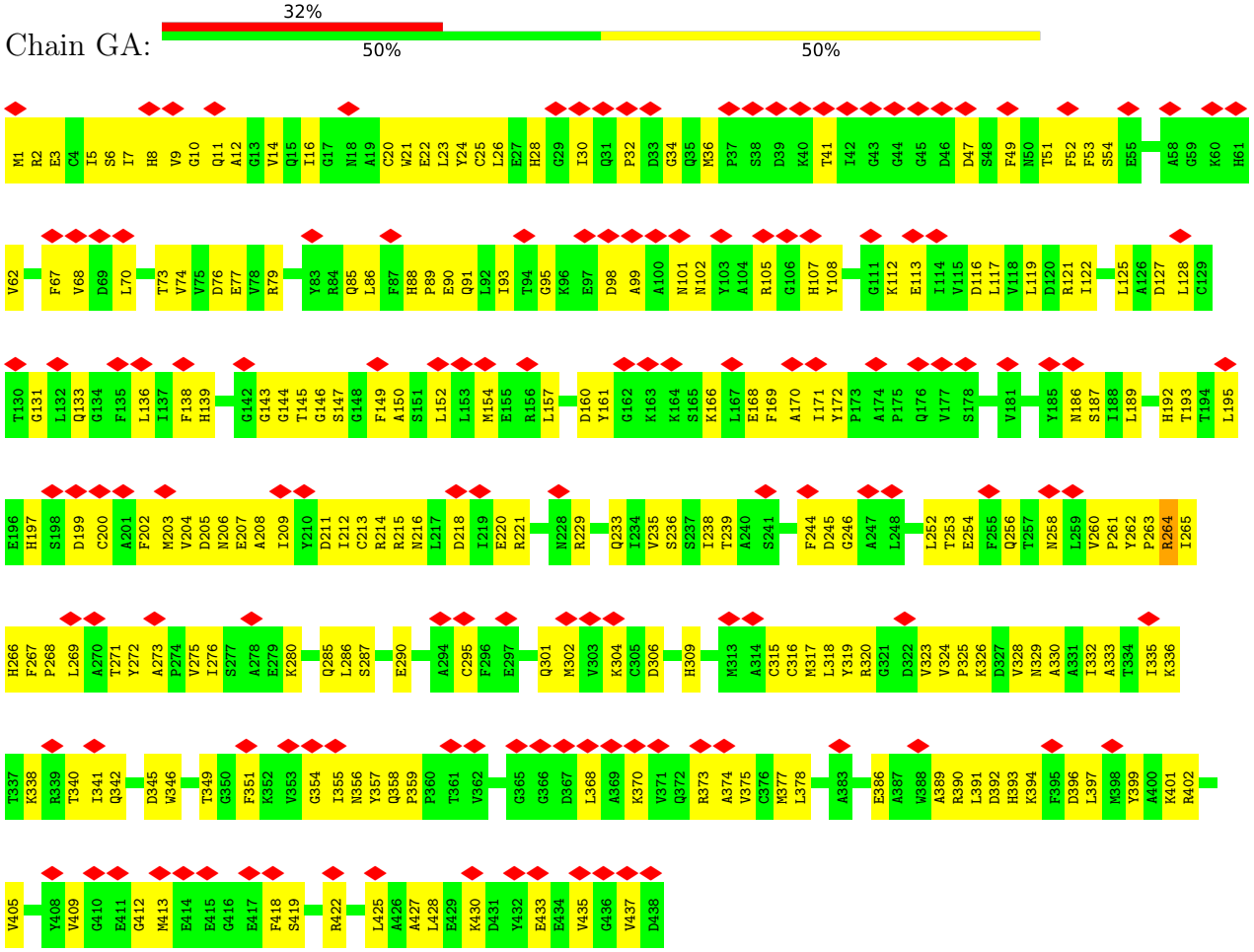
Chain FK:





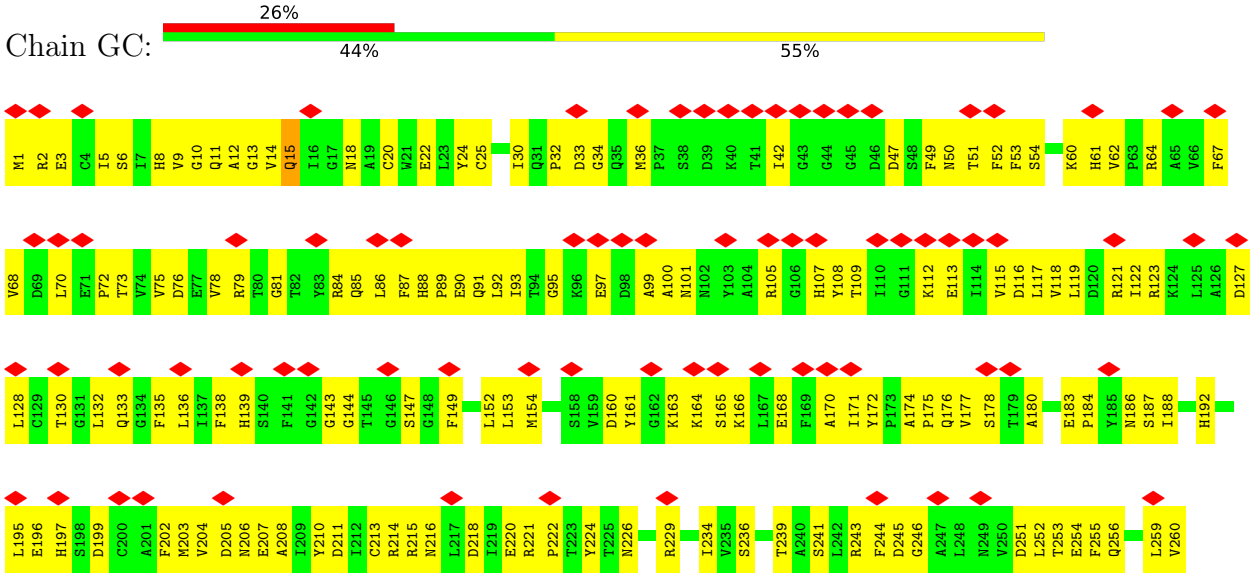
• Molecule 4: Detyrosinated tubulin alpha-3 chain

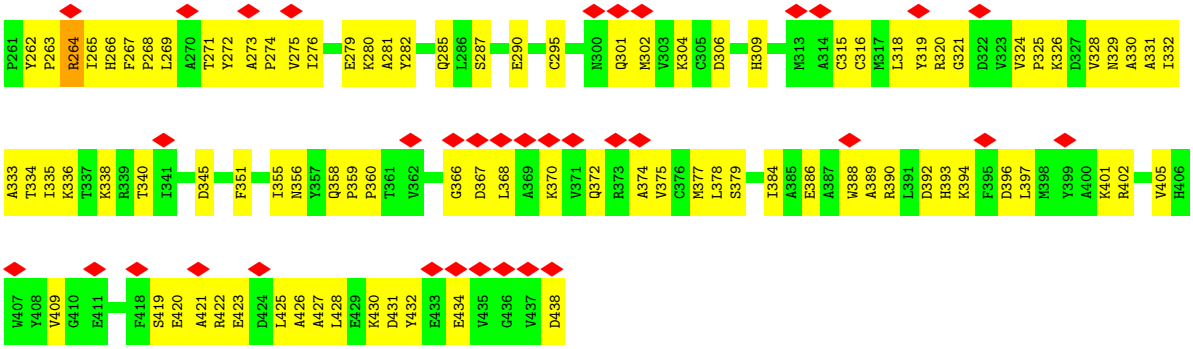
Chain GA:



• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain GC:

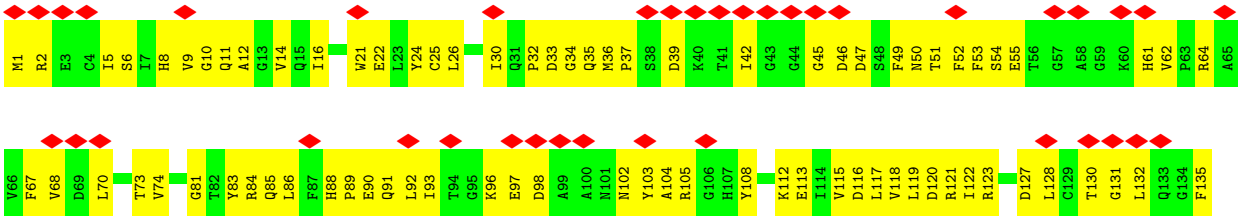




• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain GE:

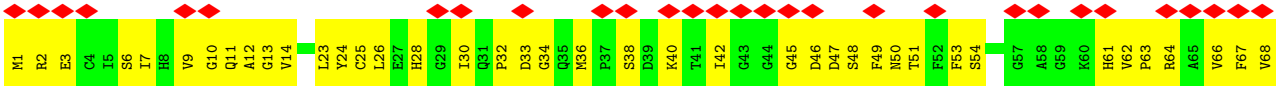


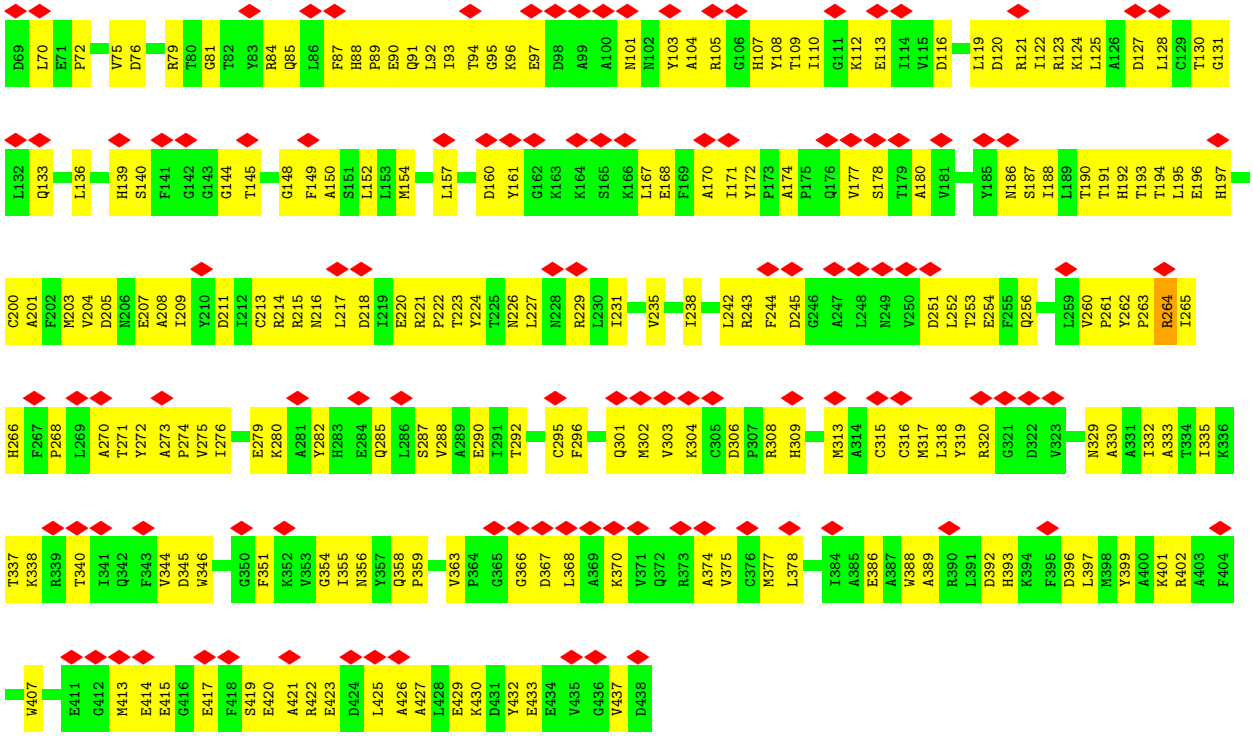


• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain GG:



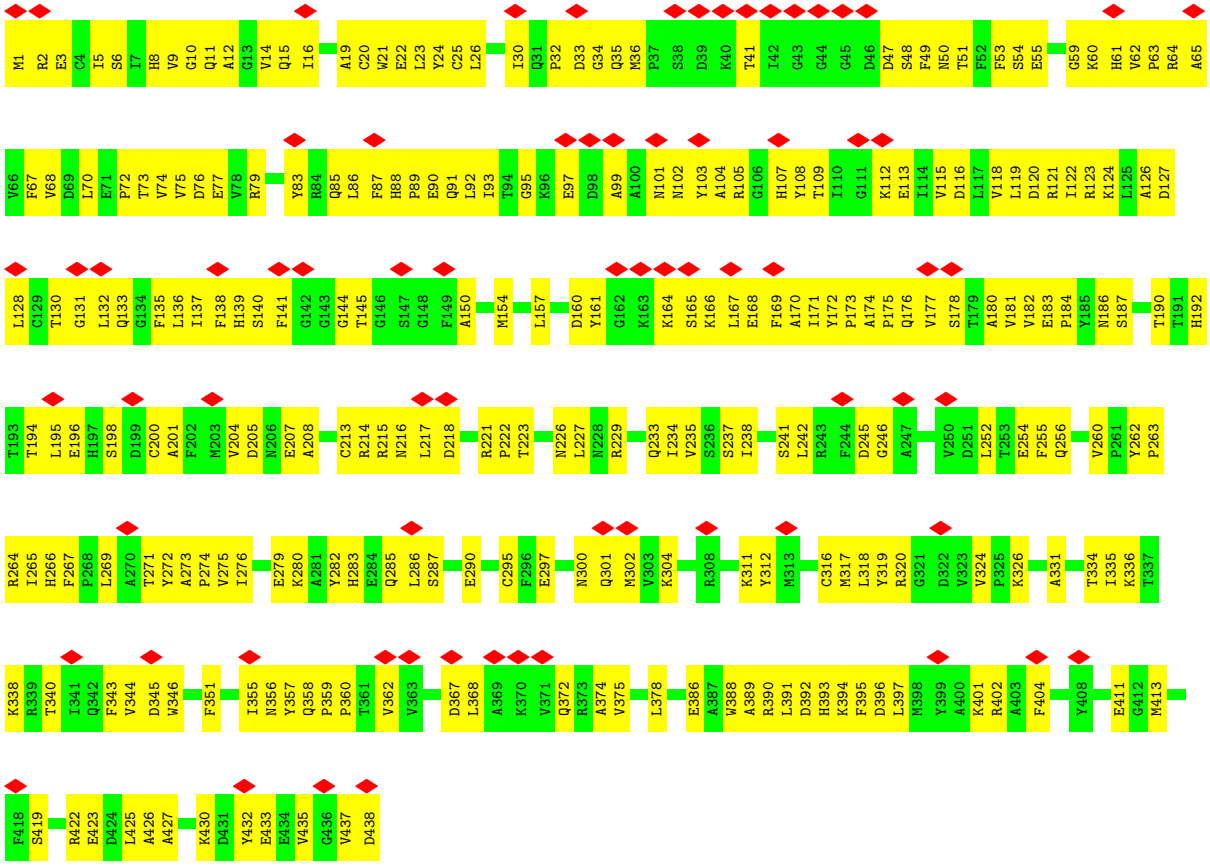




• Molecule 4: Detyrosinated tubulin alpha-3 chain

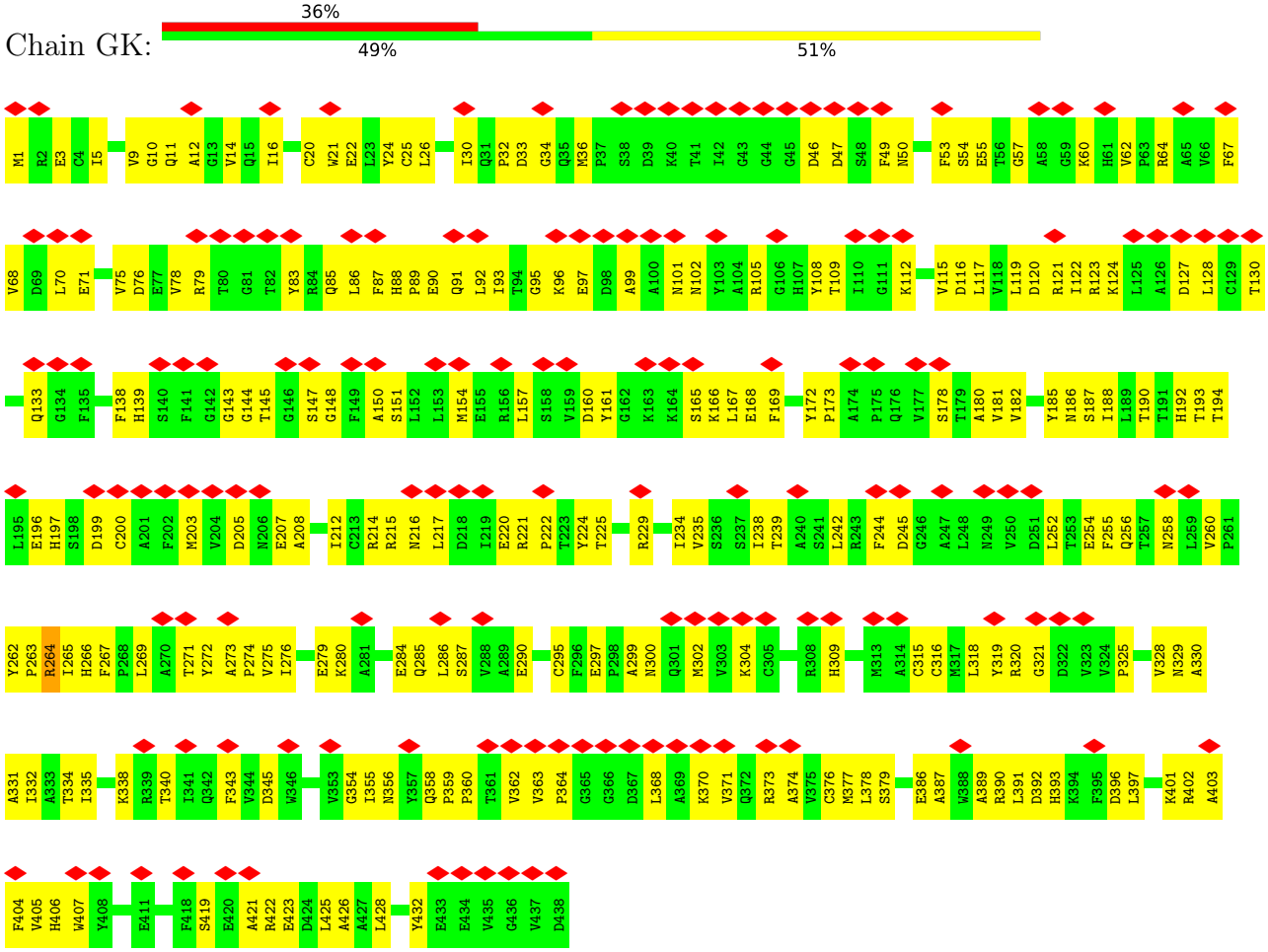
Chain GI:





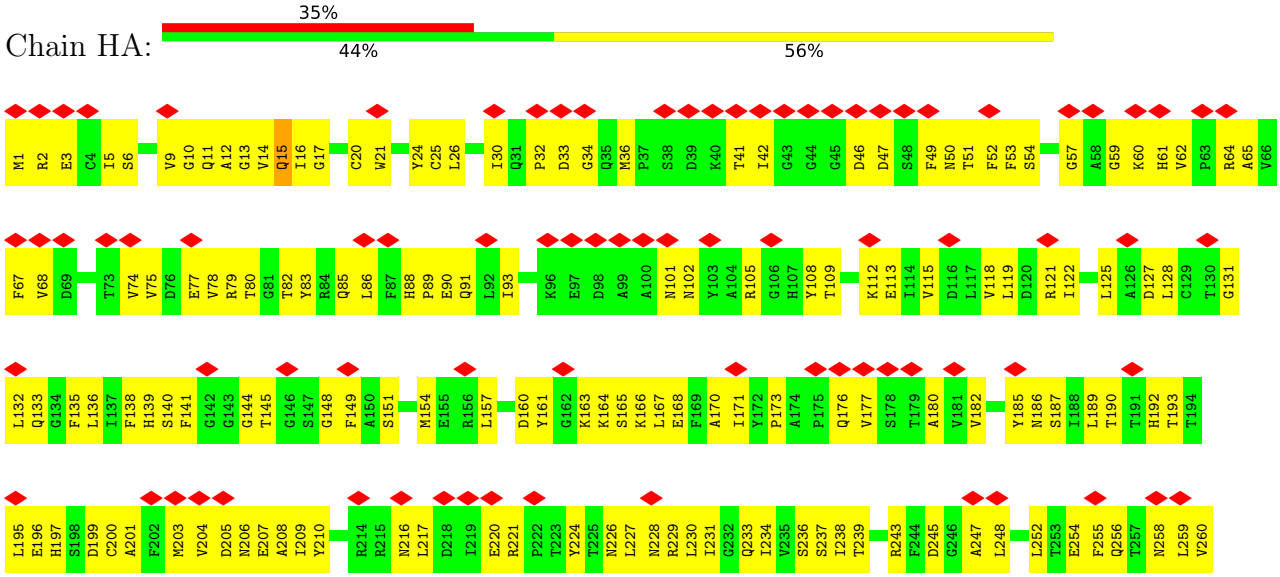
• Molecule 4: Detyrosinated tubulin alpha-3 chain

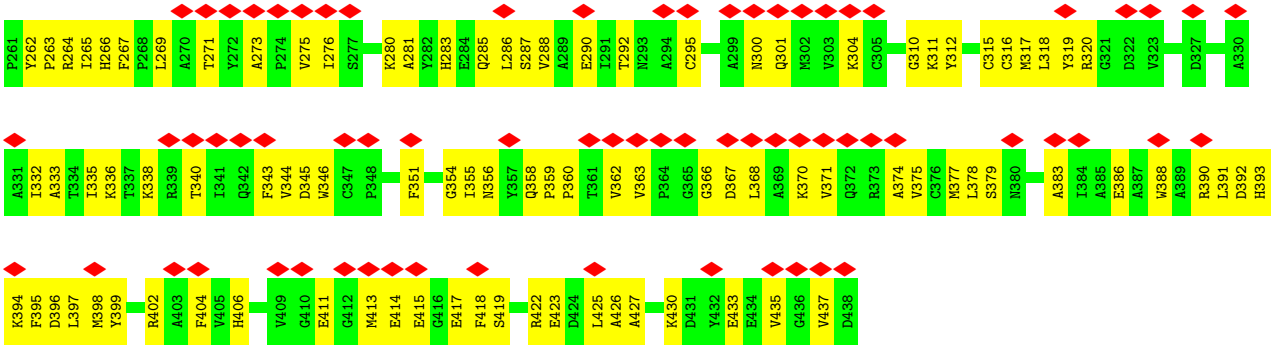
Chain GK:



• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain HA:

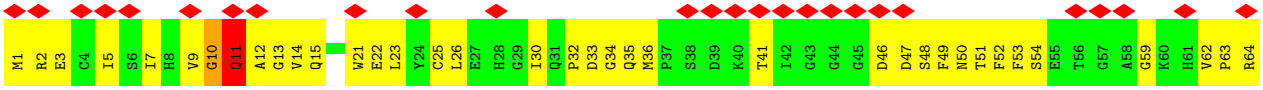


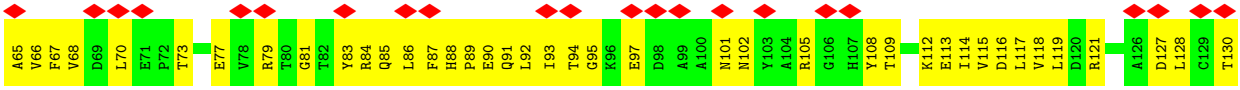


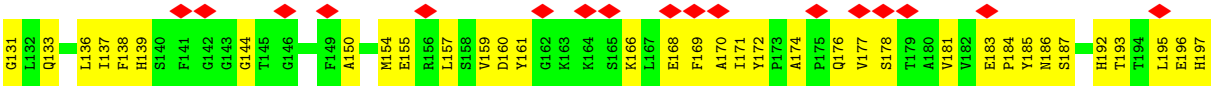
• Molecule 4: Detyrosinated tubulin alpha-3 chain

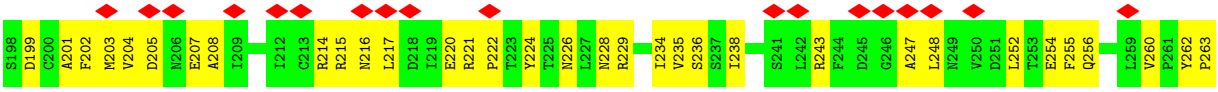
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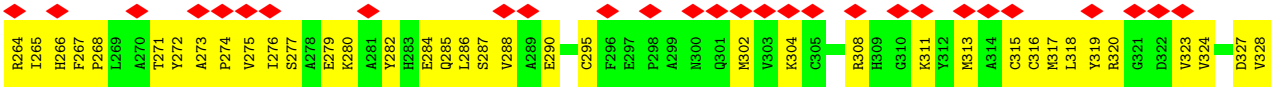


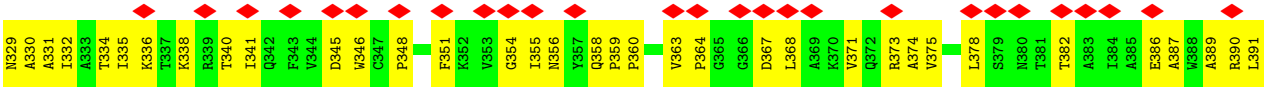


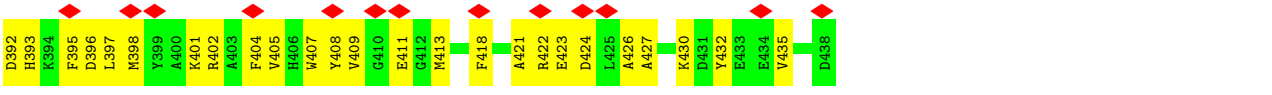


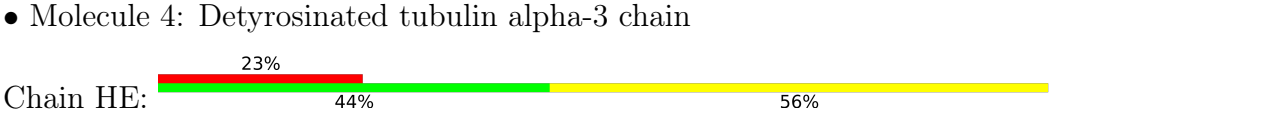


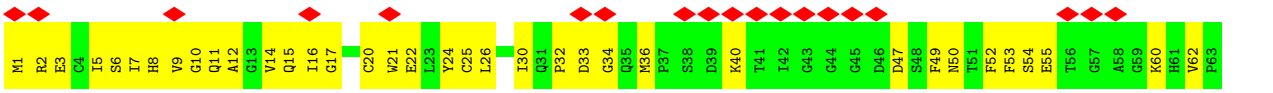








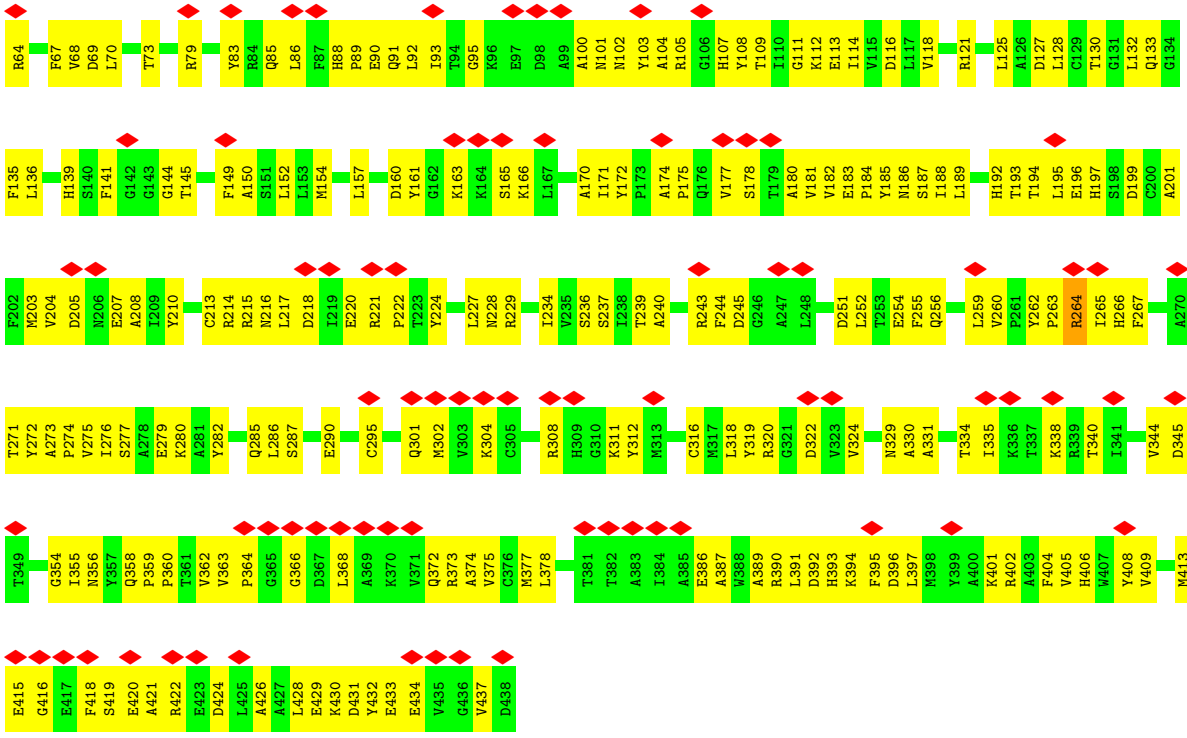




• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain HE:

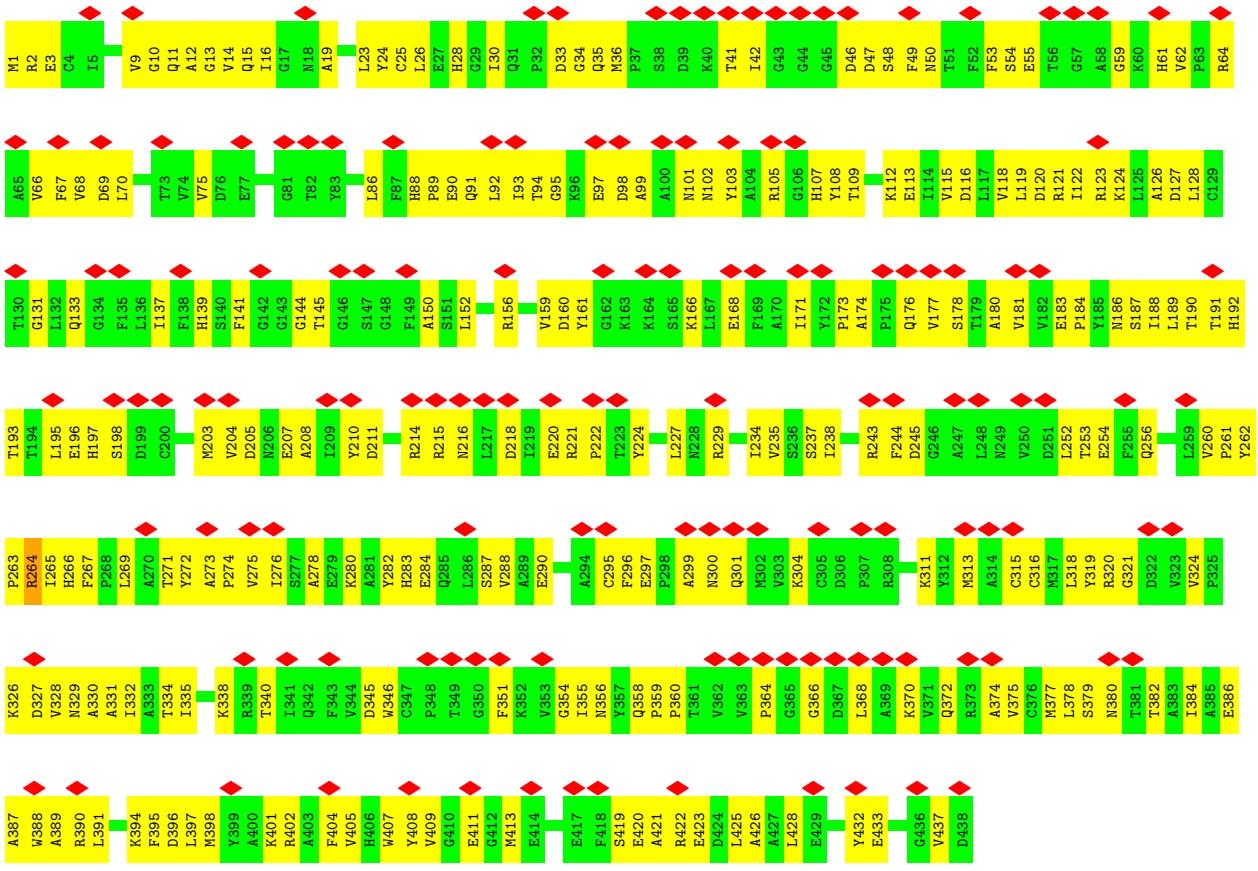




• Molecule 4: Detyrosinated tubulin alpha-3 chain

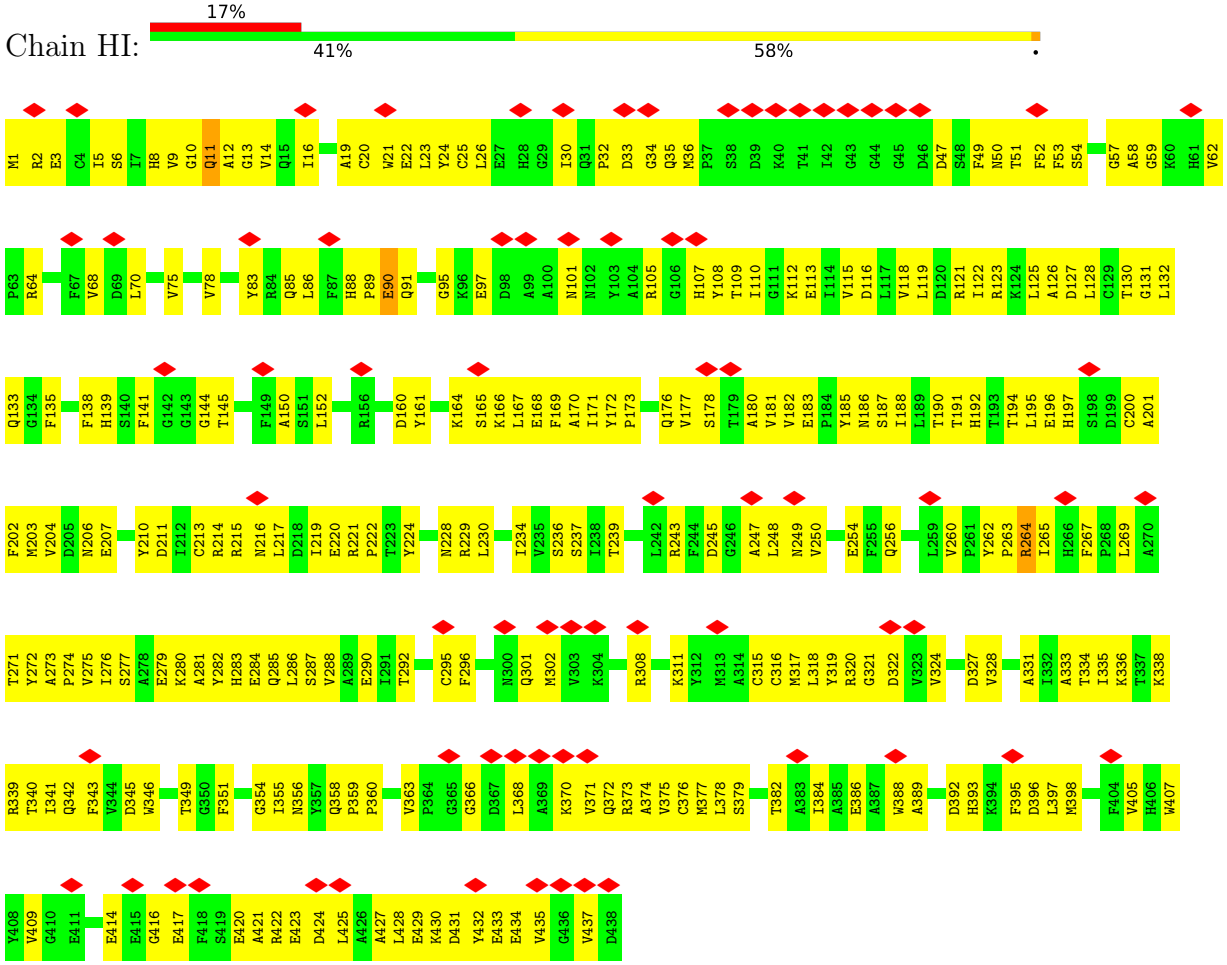
Chain HG:





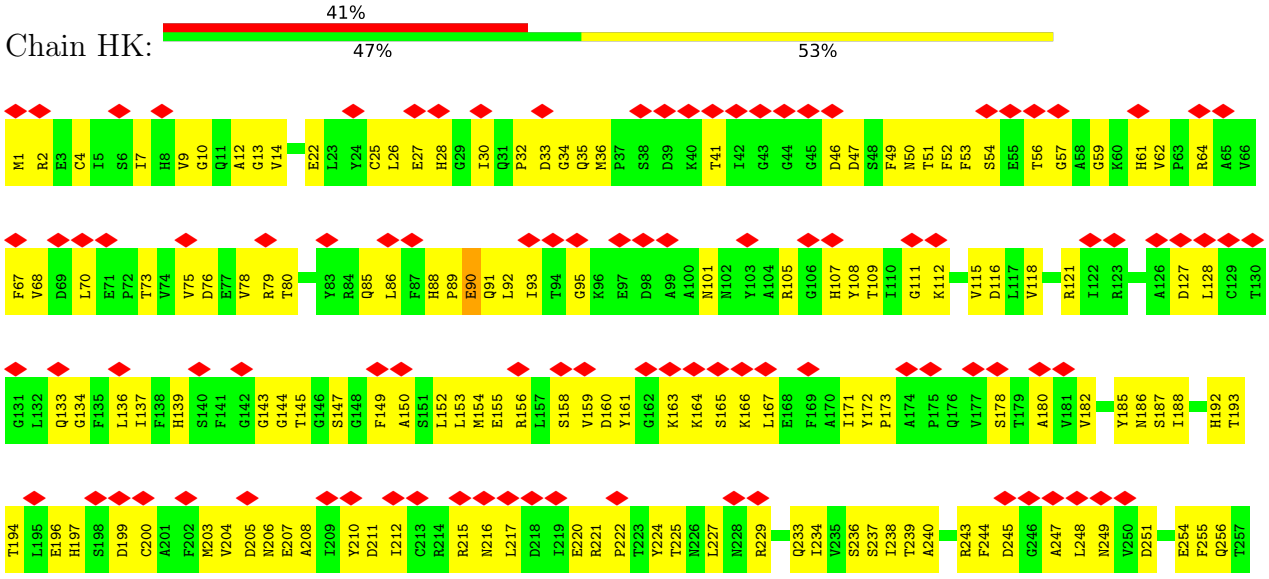
• Molecule 4: Detyrosinated tubulin alpha-3 chain

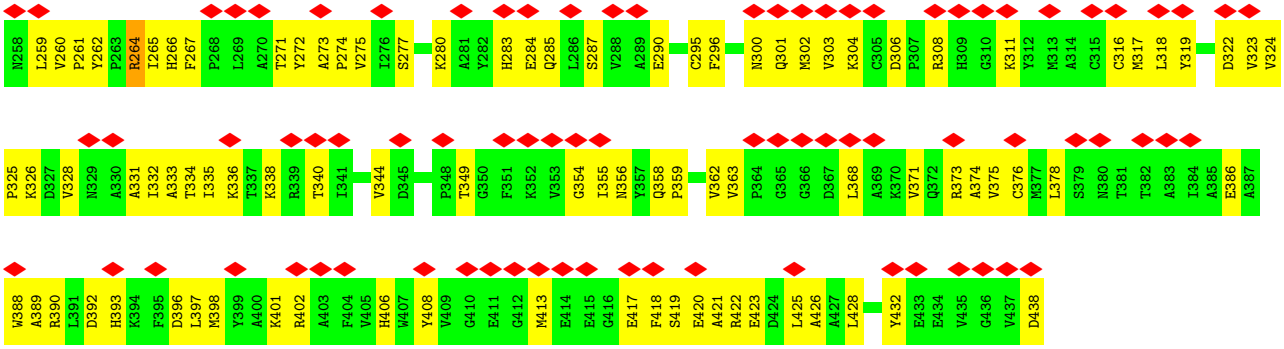
Chain HI:



• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain HK:

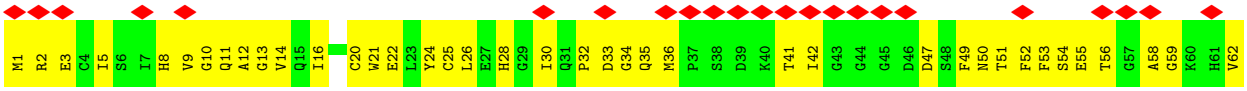


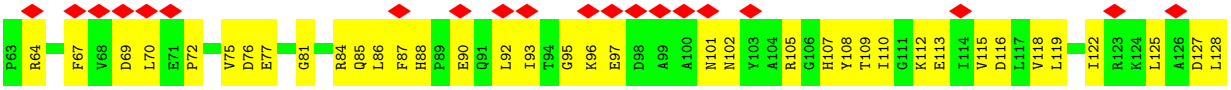


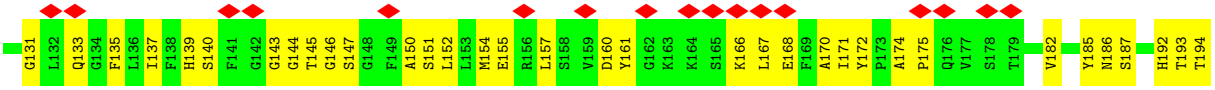
• Molecule 4: Detyrosinated tubulin alpha-3 chain

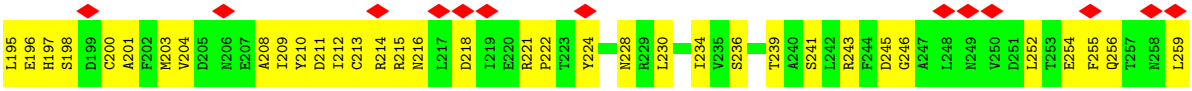
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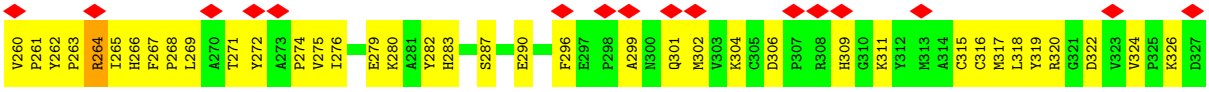


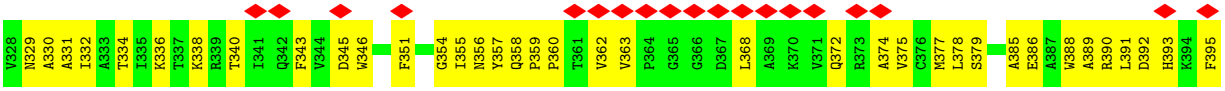


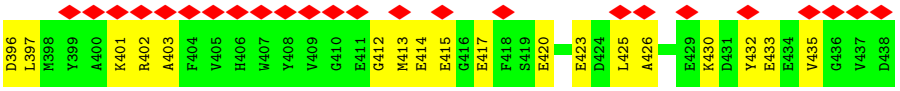








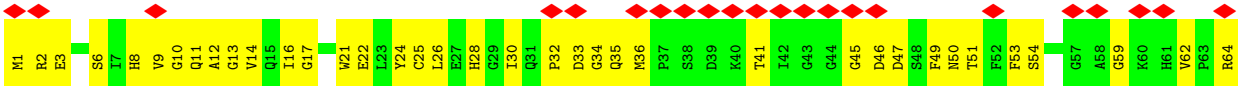


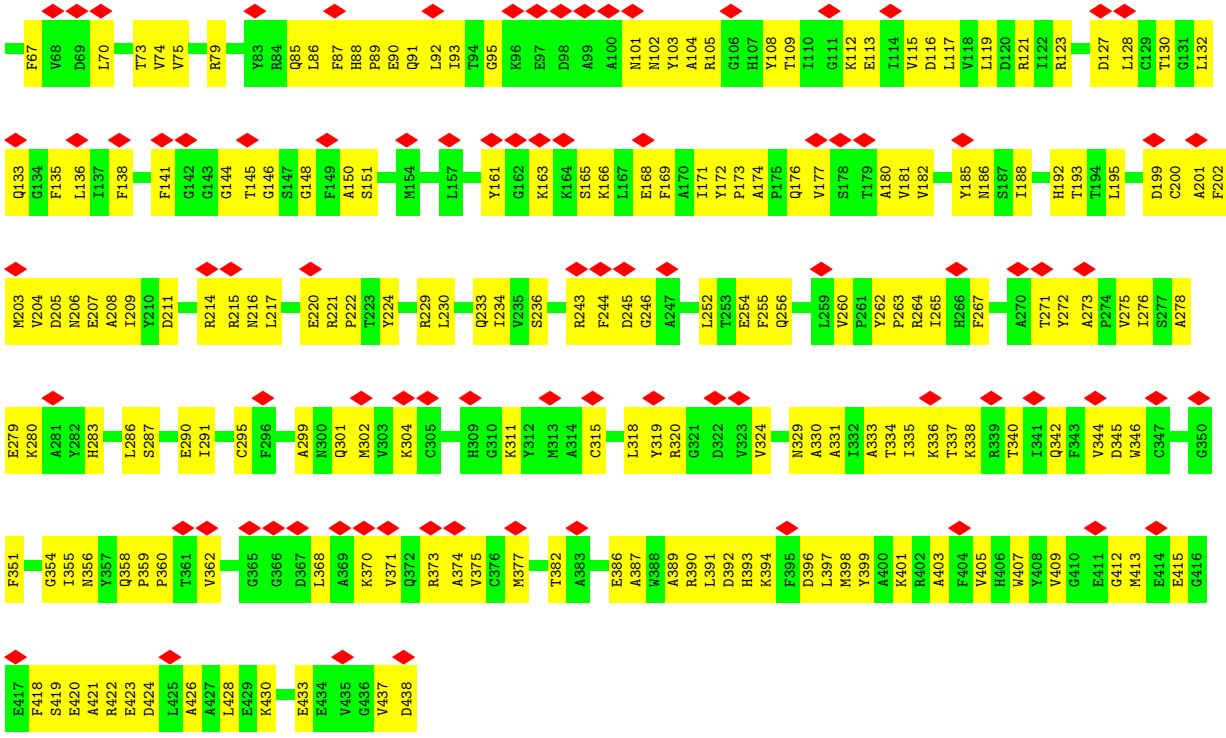


• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain IC:



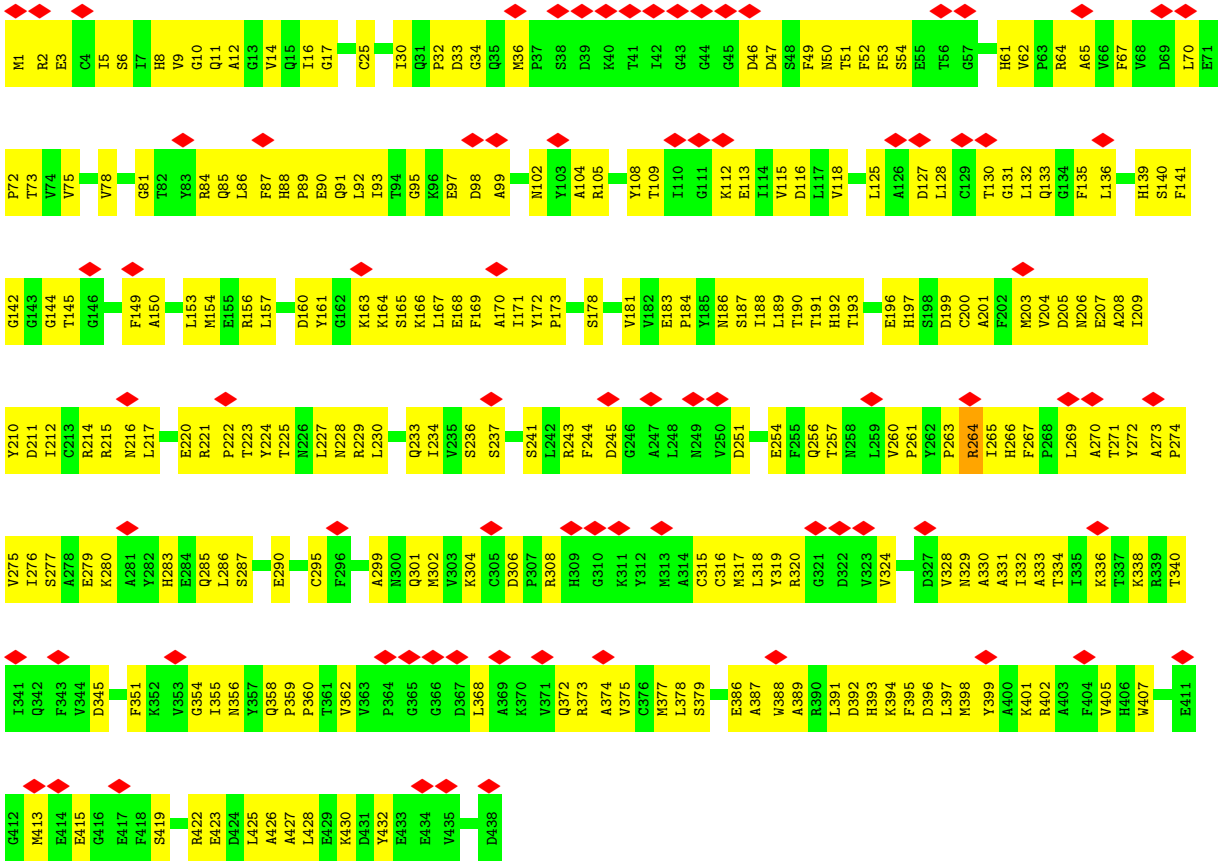




• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain IE:





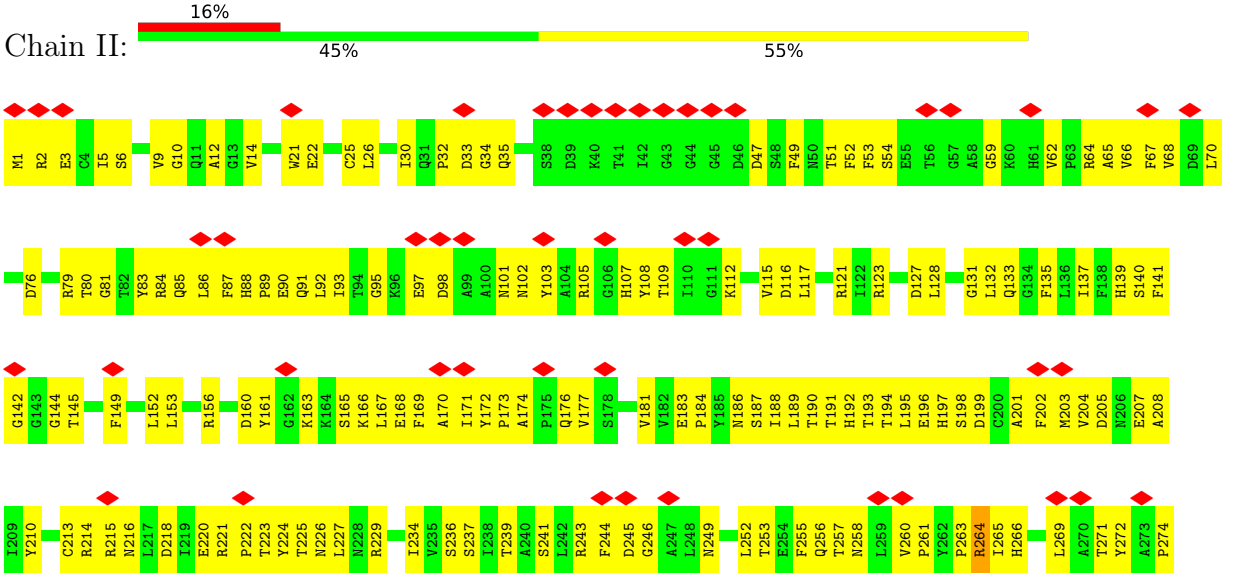
• Molecule 4: Detyrosinated tubulin alpha-3 chain

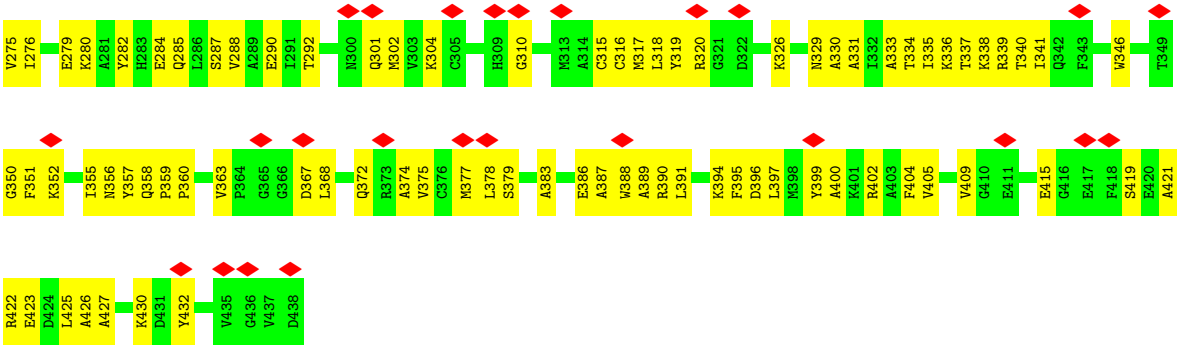
Chain IG:



• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain II:

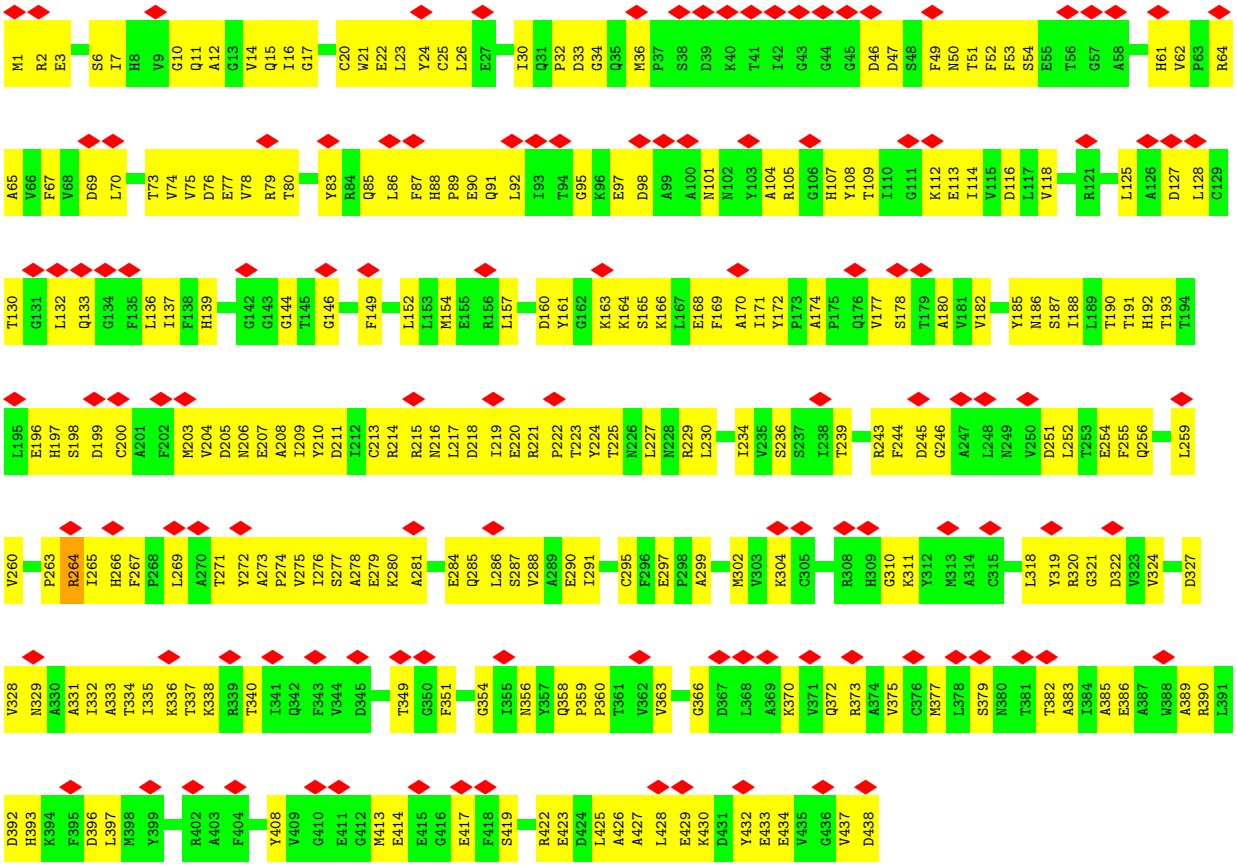




• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain IK:

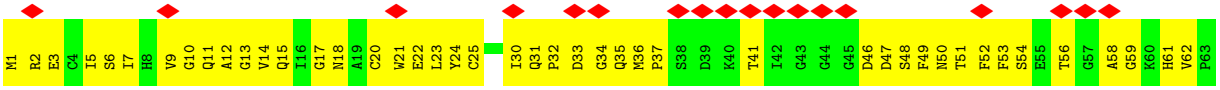


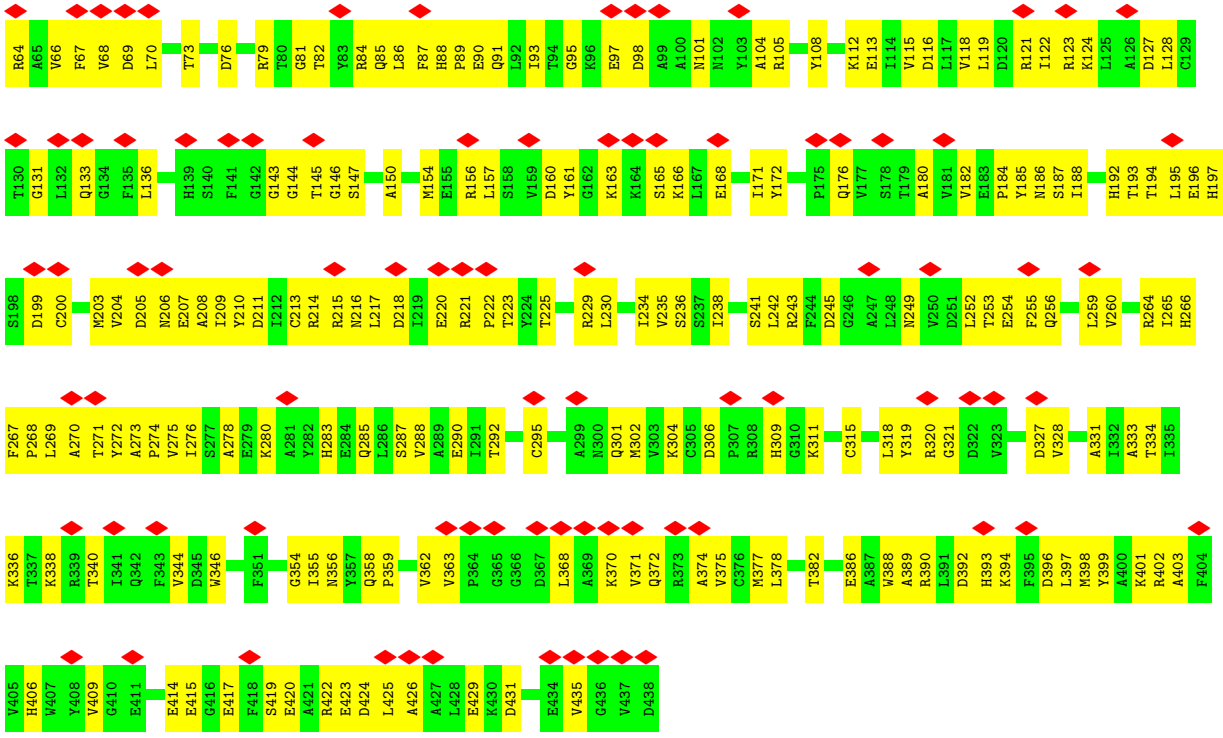


• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain IM:



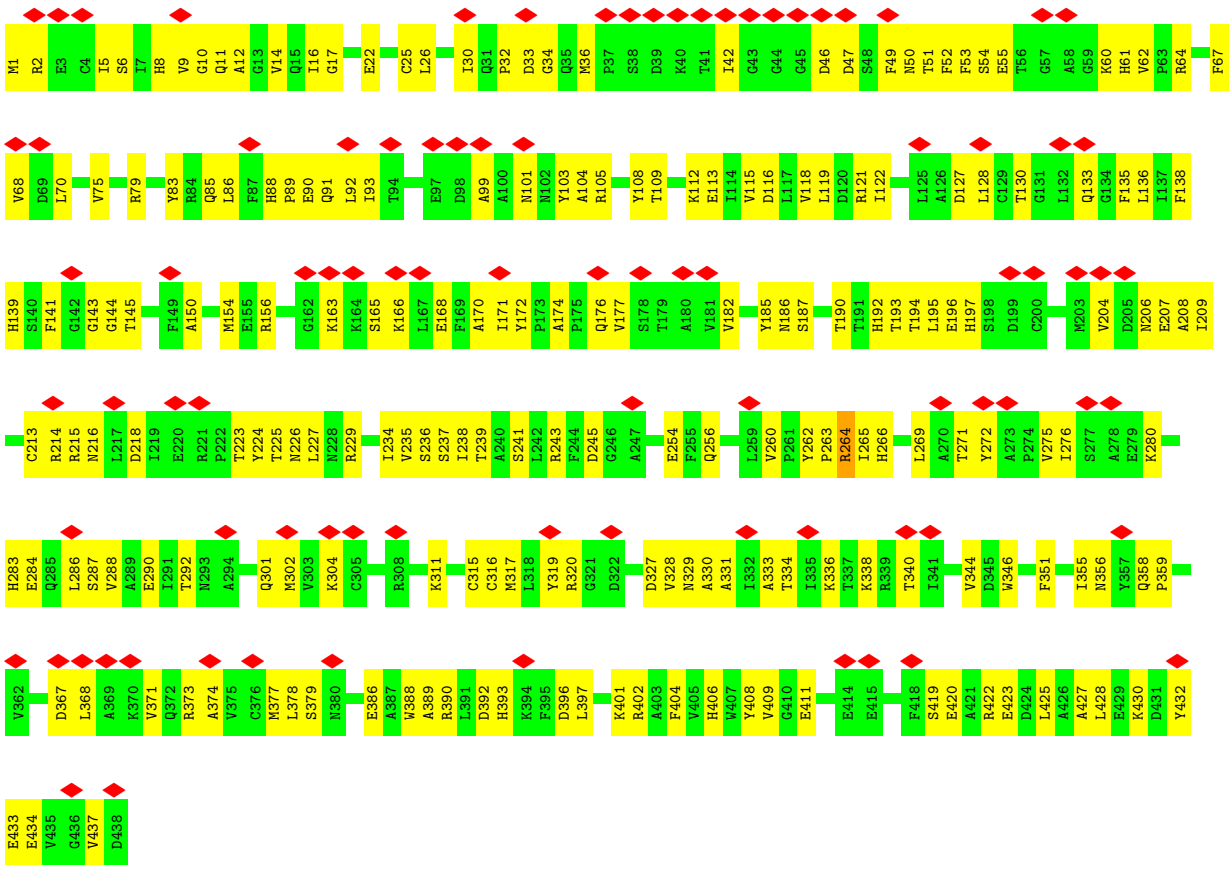




• Molecule 4: Detyrosinated tubulin alpha-3 chain

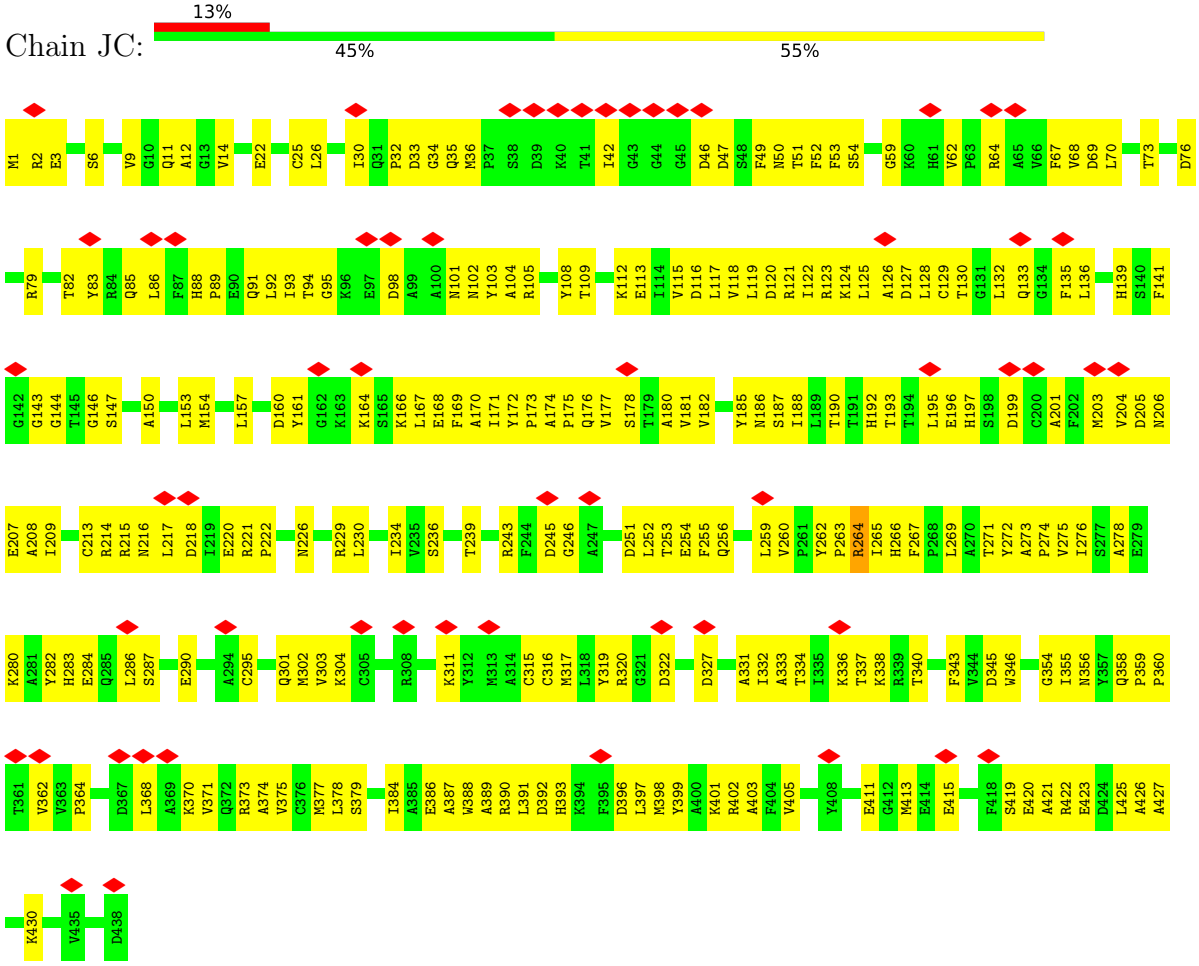
Chain JA:





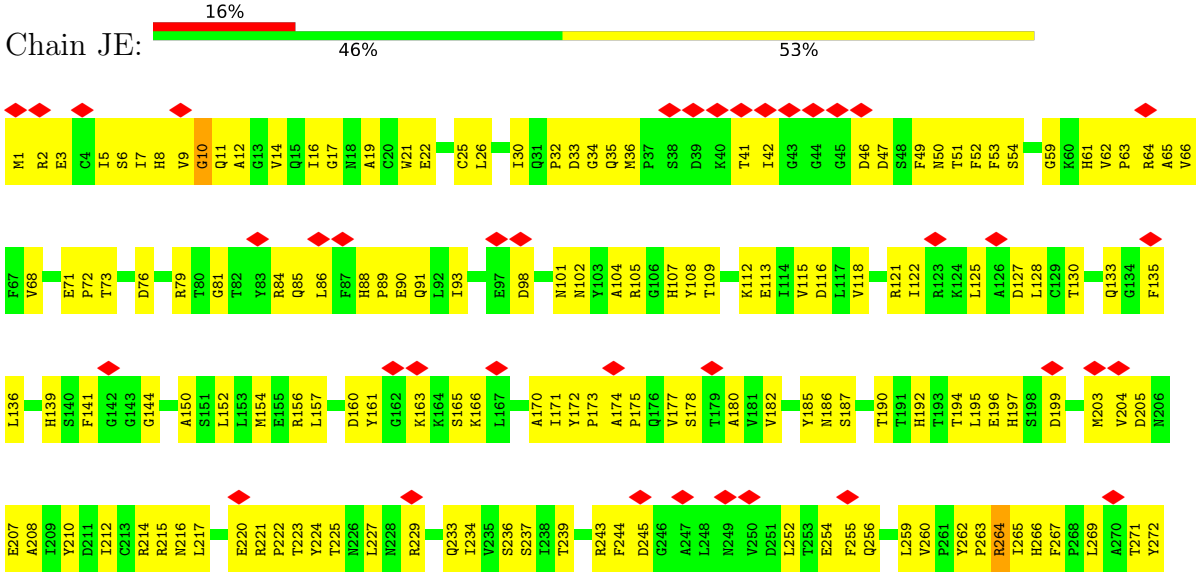
• Molecule 4: Detyrosinated tubulin alpha-3 chain

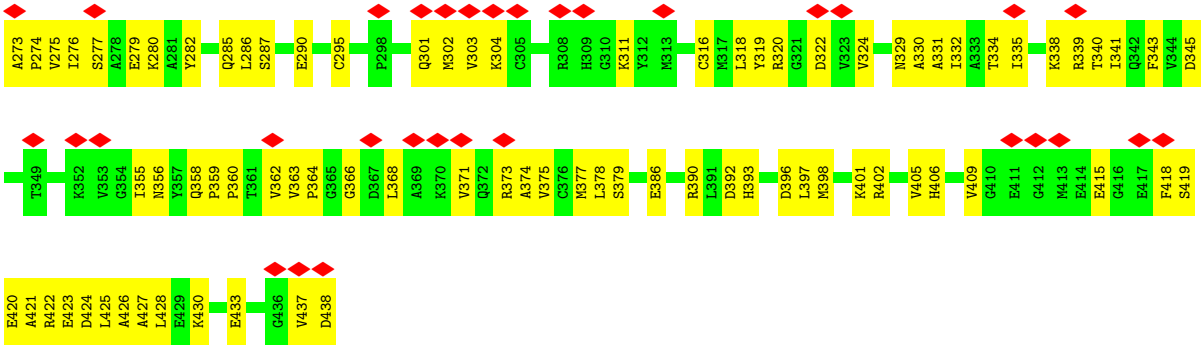
Chain JC:



• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain JE:

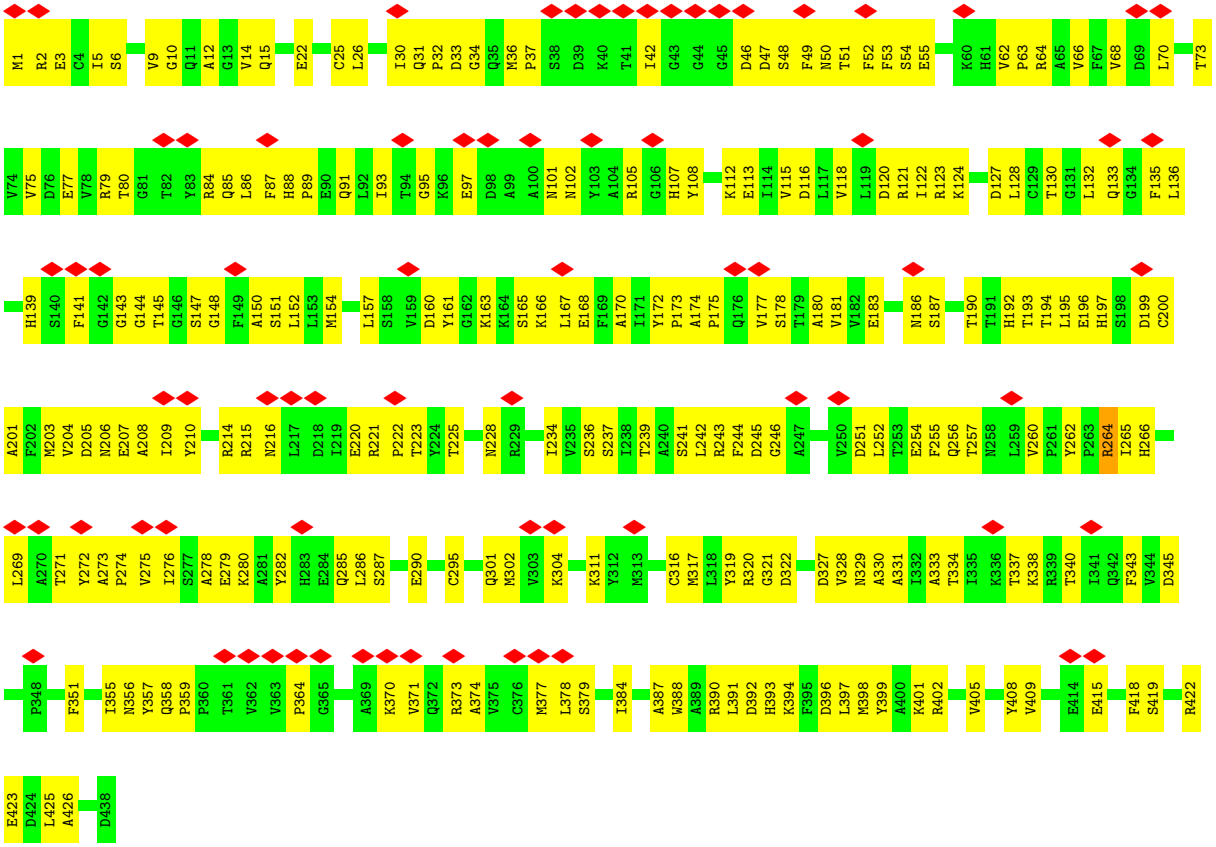




• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain JG:

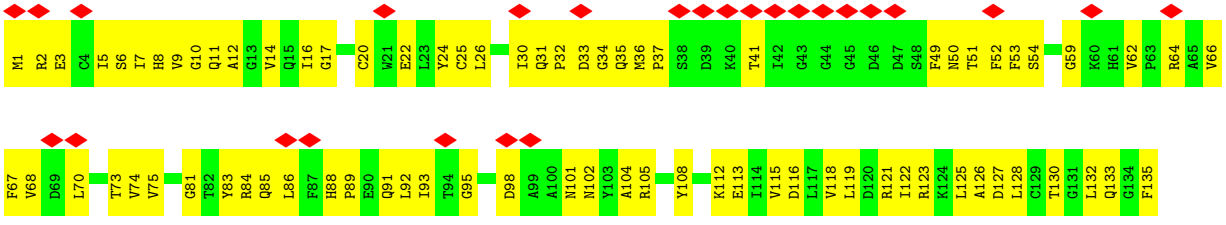


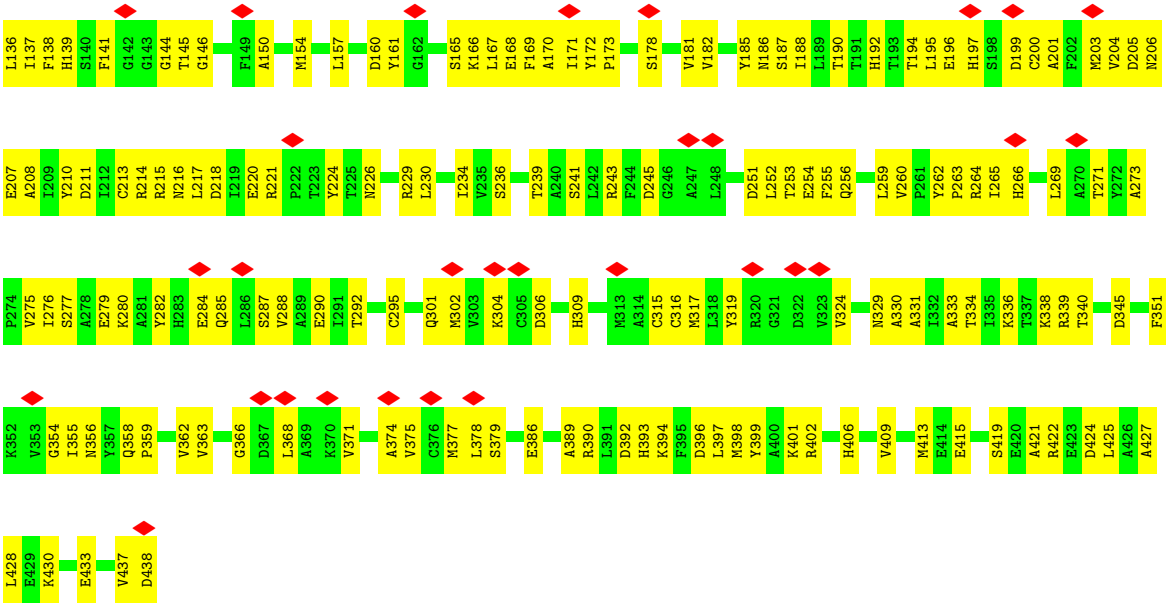


• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain JI:



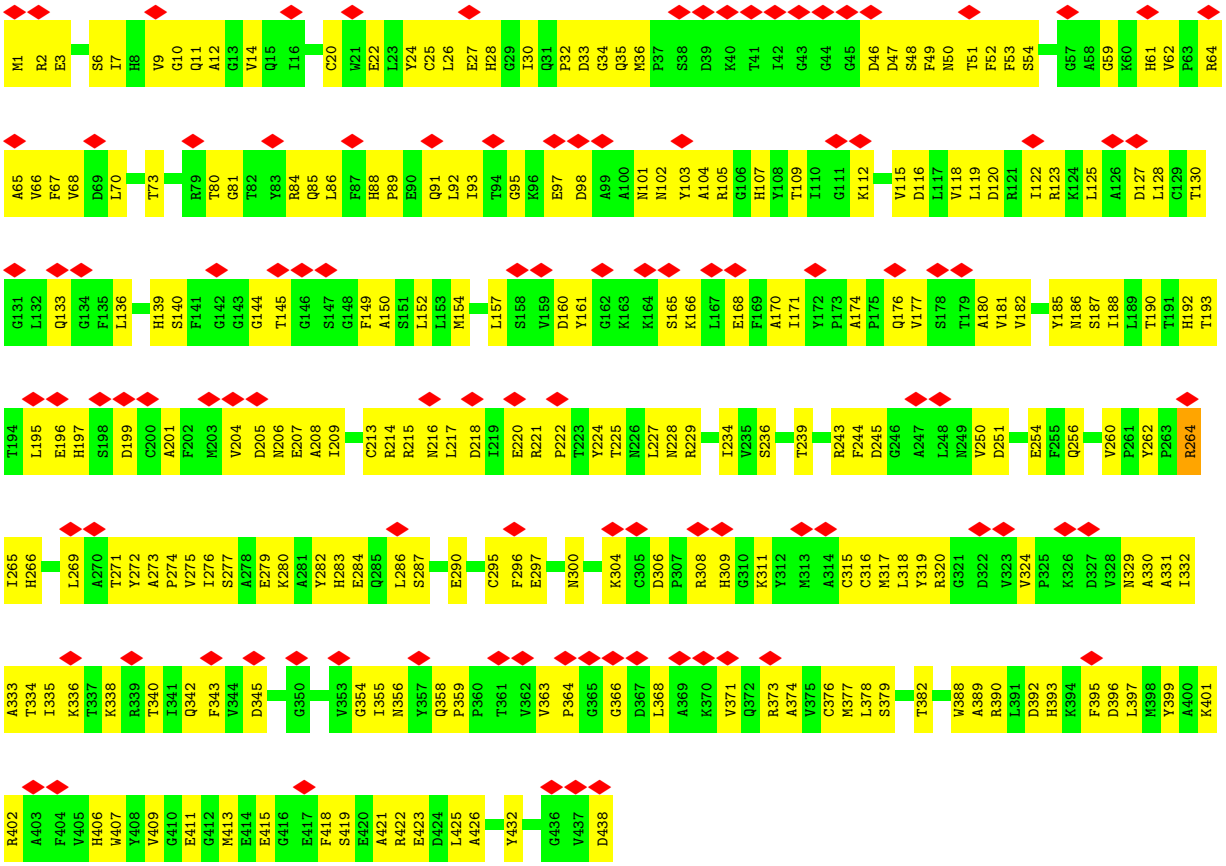




• Molecule 4: Detyrosinated tubulin alpha-3 chain

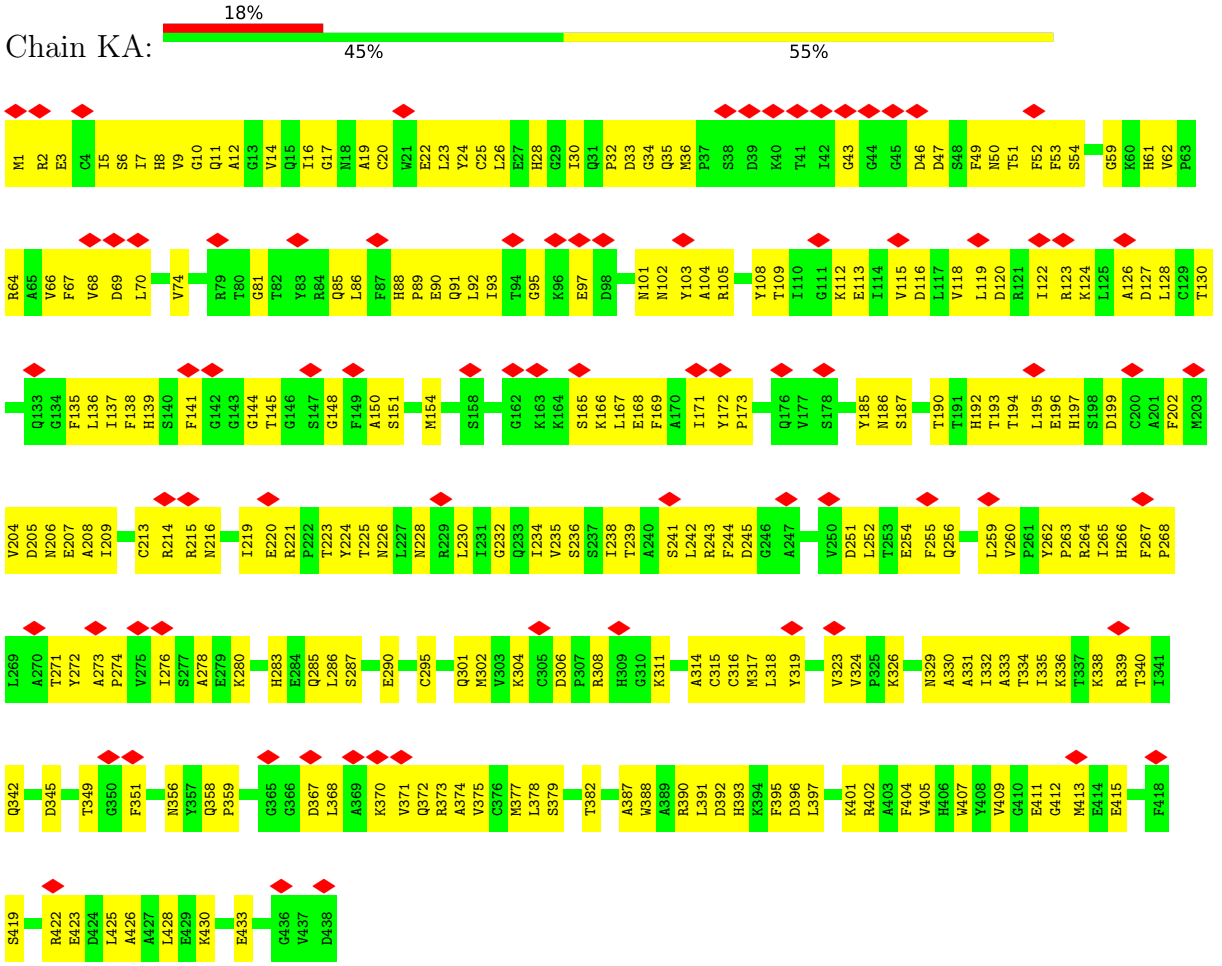
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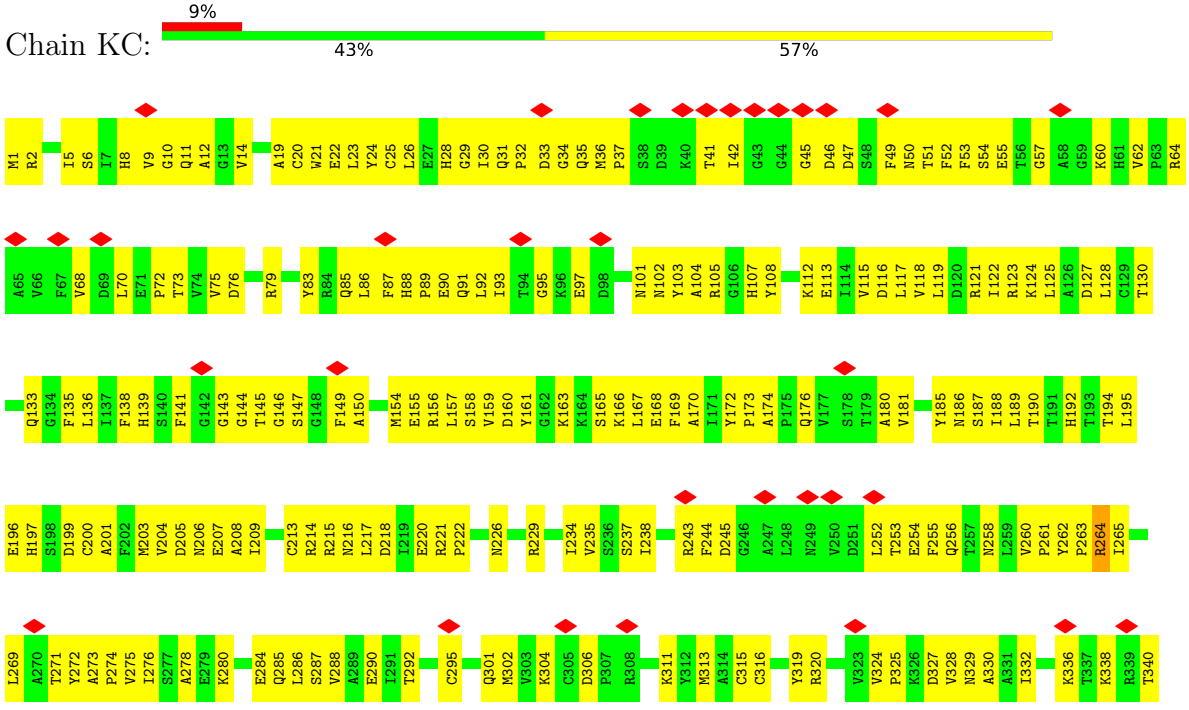
• Molecule 4: Detyrosinated tubulin alpha-3 chain

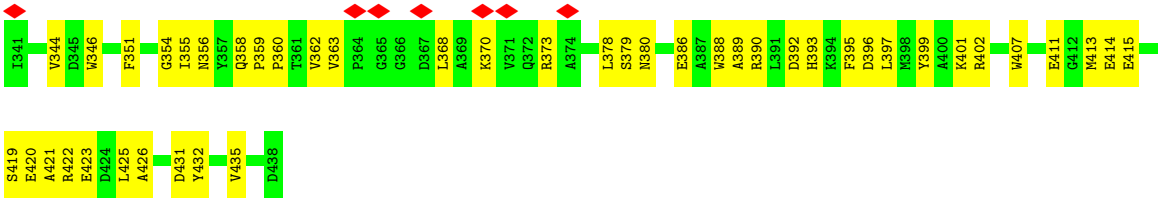
Chain KA:



• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain KC:

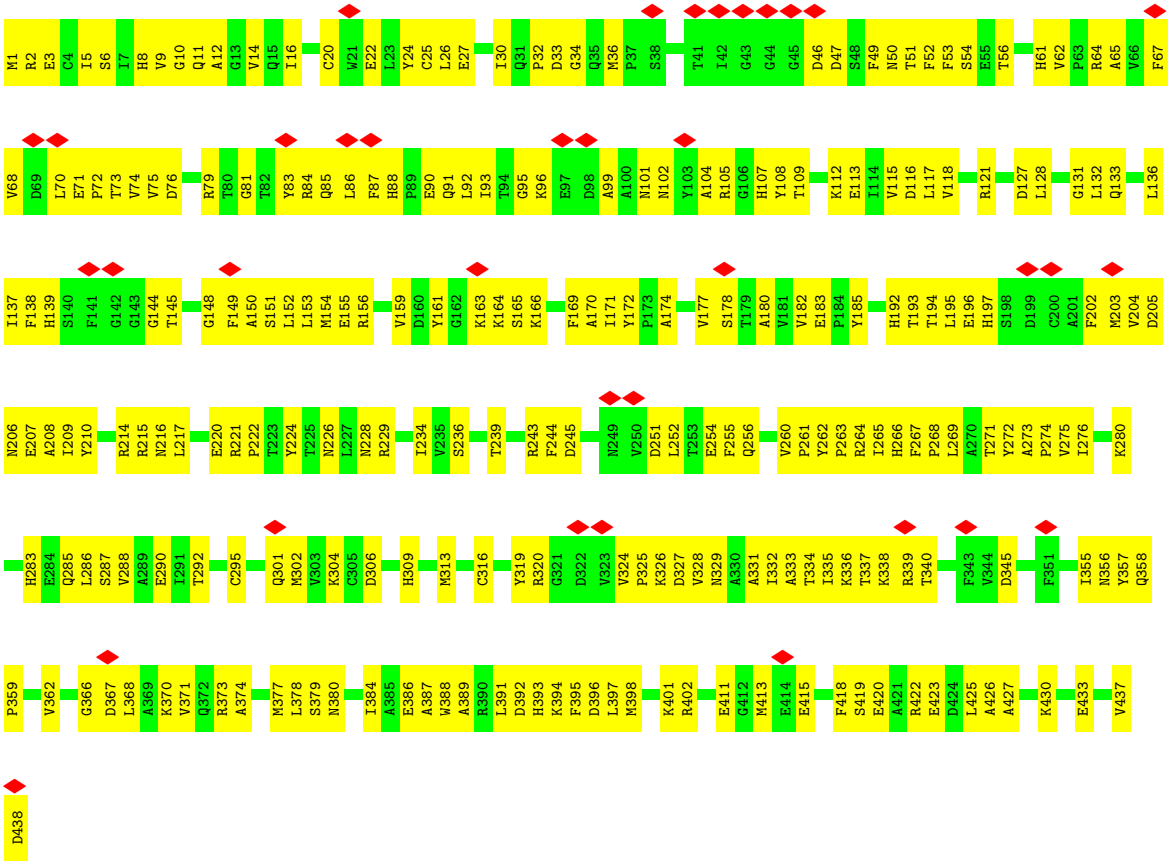




• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain KE:

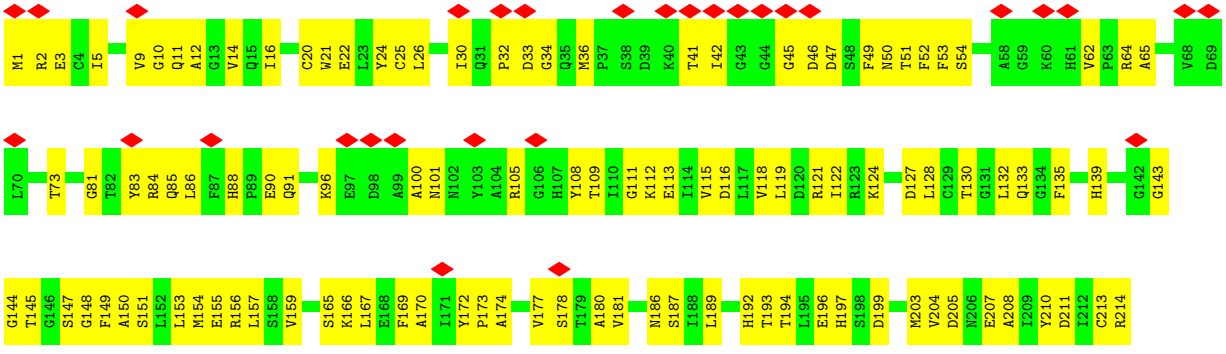


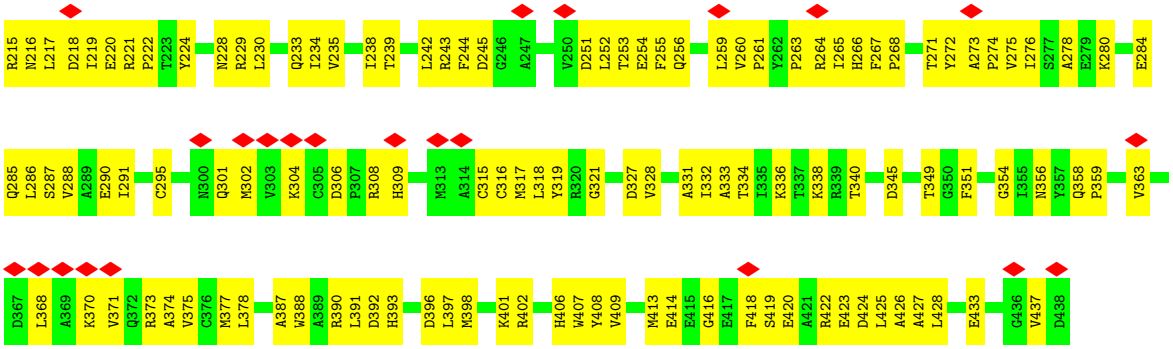


• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain KG:



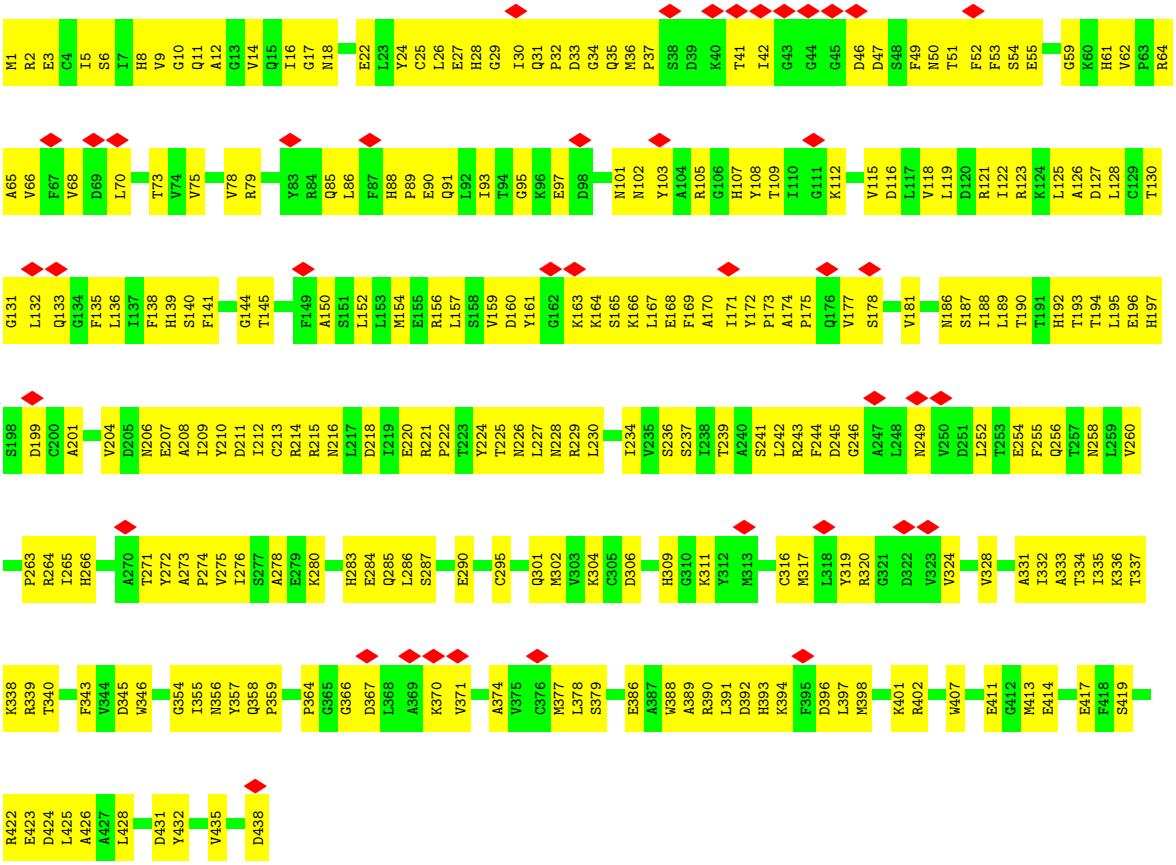




• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain KI:

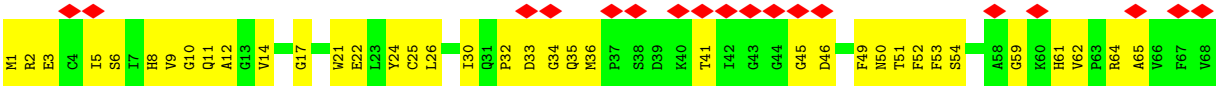




• Molecule 4: Detyrosinated tubulin alpha-3 chain

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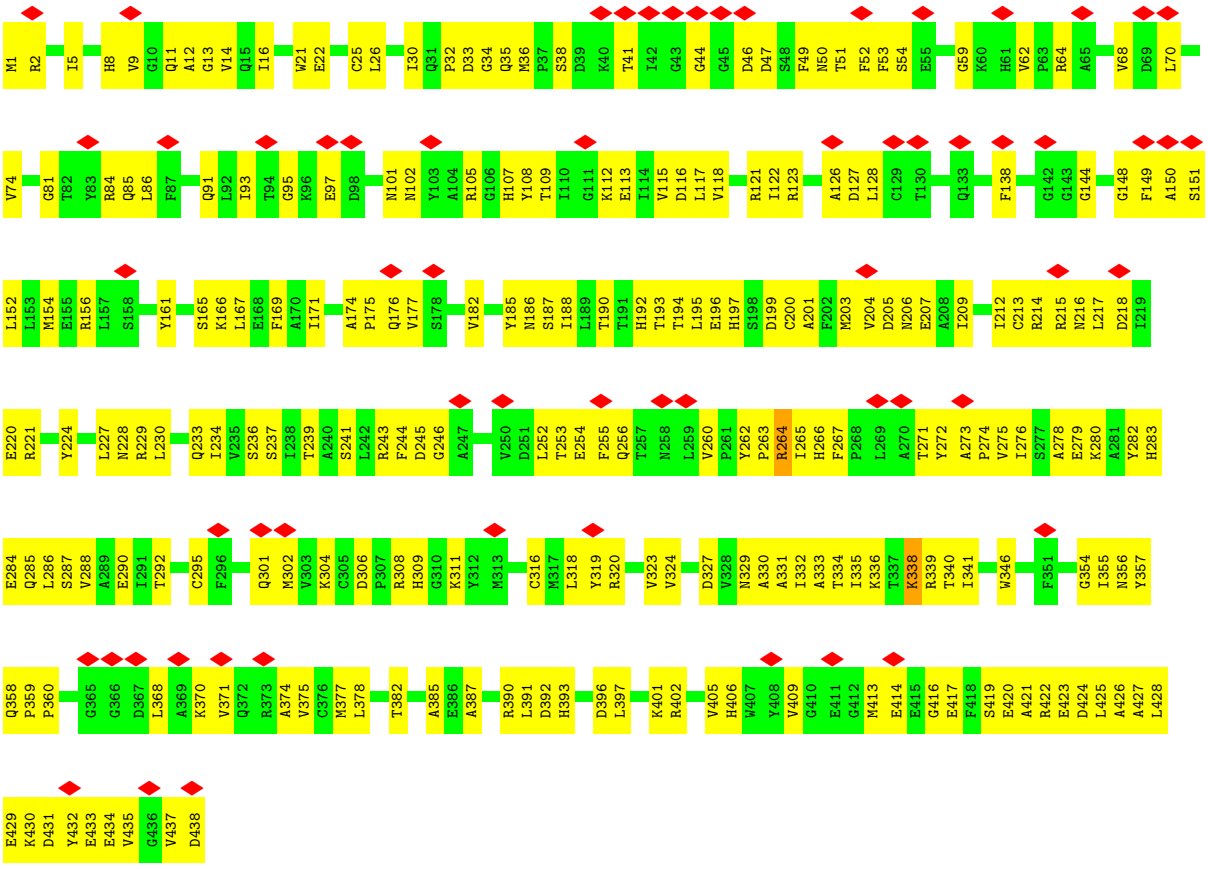




• Molecule 4: Detyrosinated tubulin alpha-3 chain

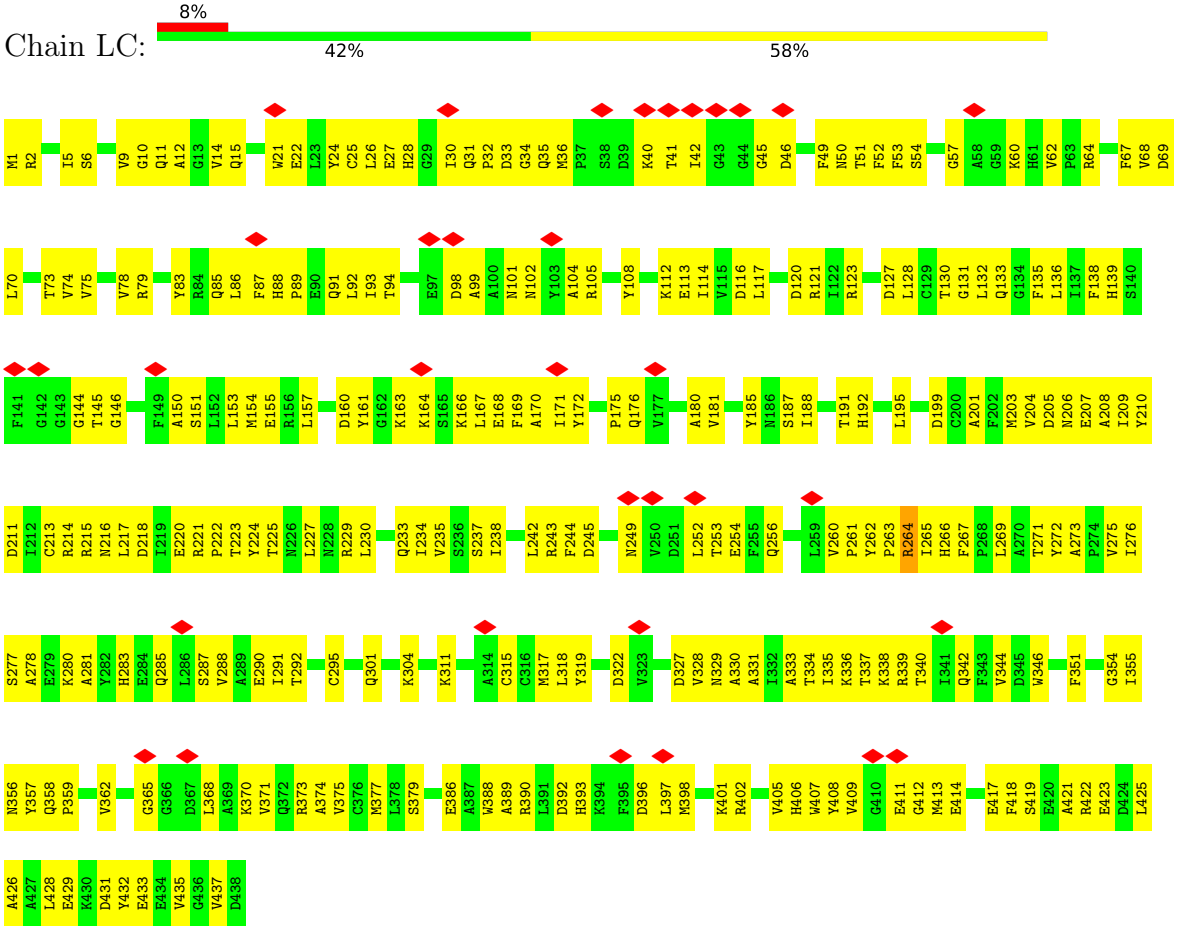
Chain LA:





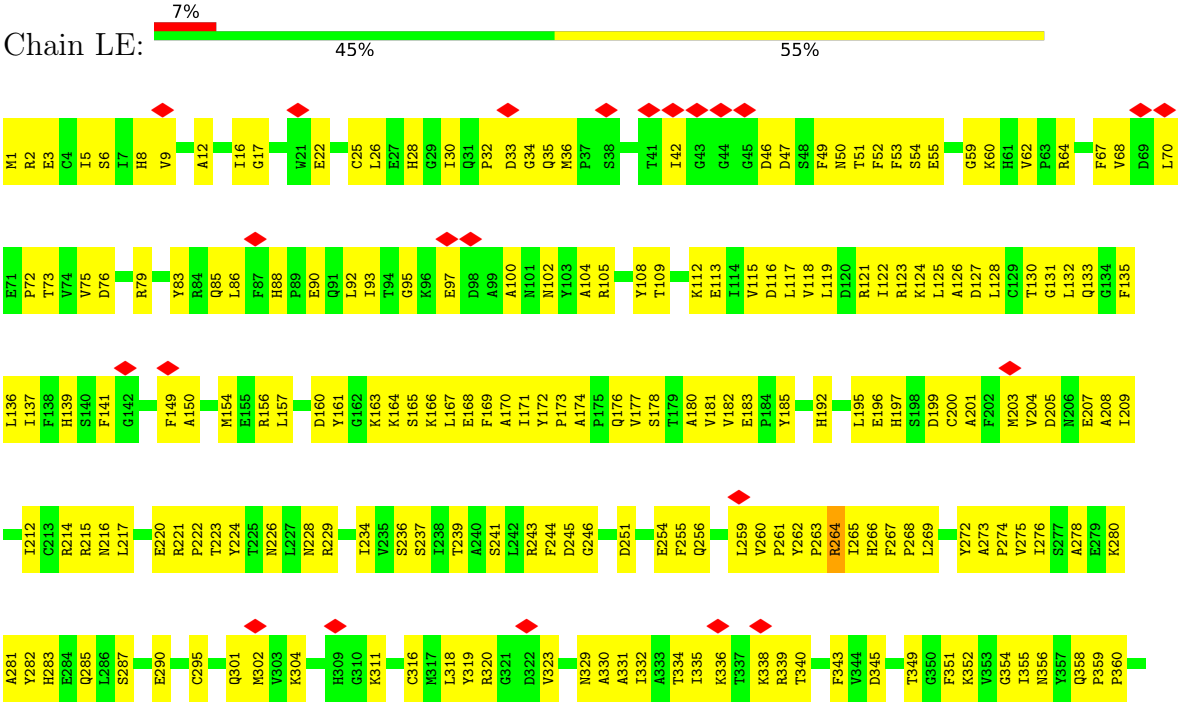
• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain LC:



• Molecule 4: Detyrosinated tubulin alpha-3 chain

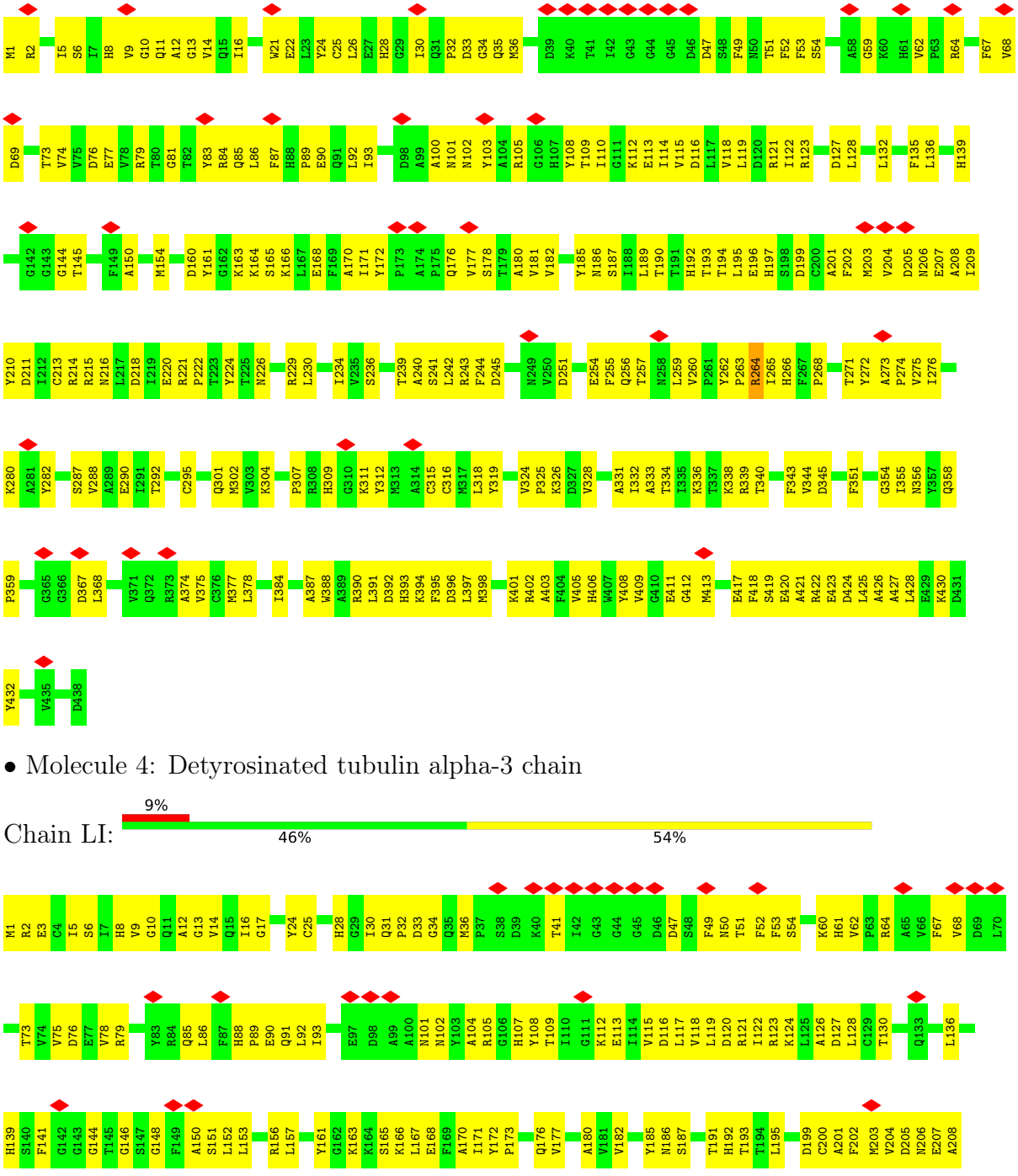
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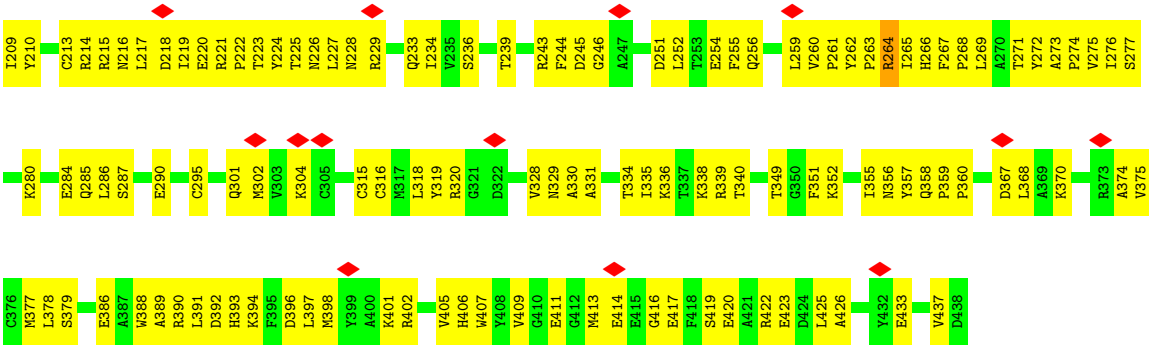


• Molecule 4: Detyrosinated tubulin alpha-3 chain





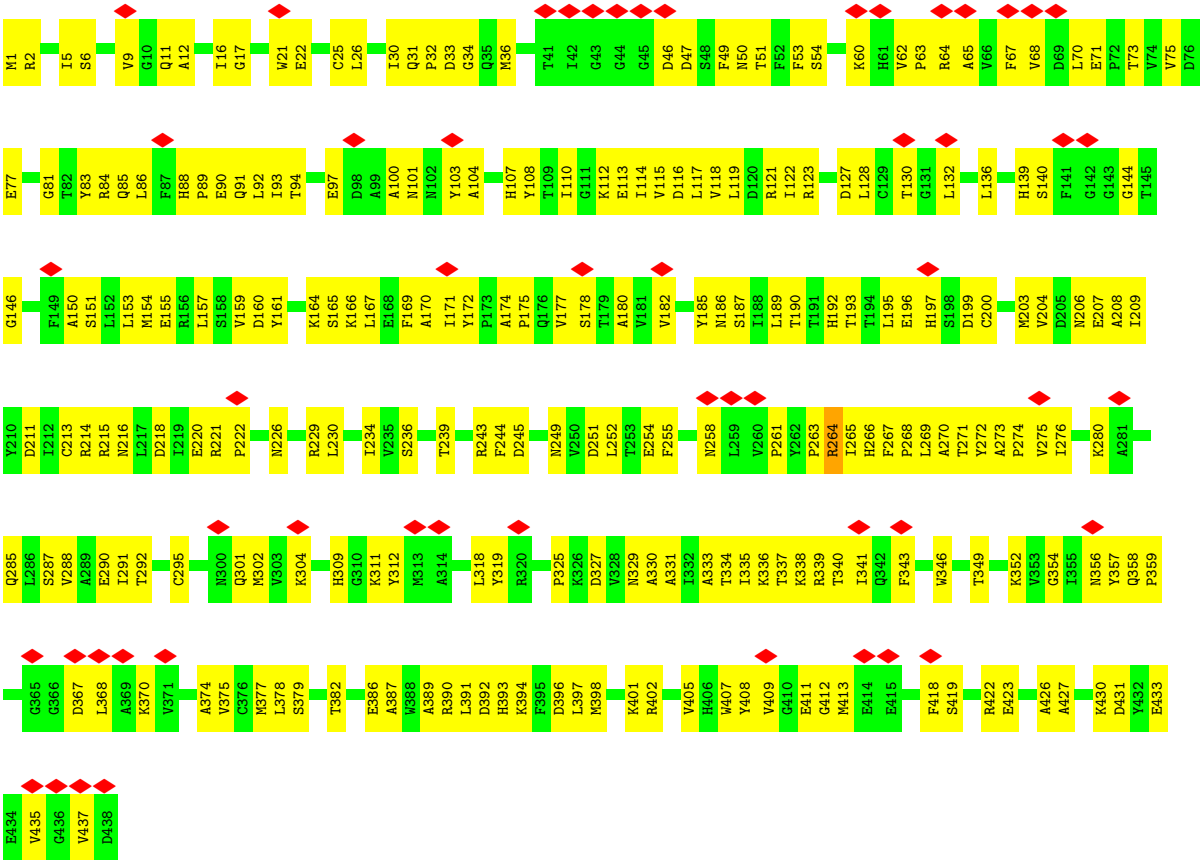
• Molecule 4: Detyrosinated tubulin alpha-3 chain



• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain LK:

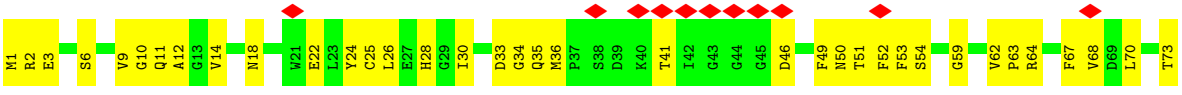


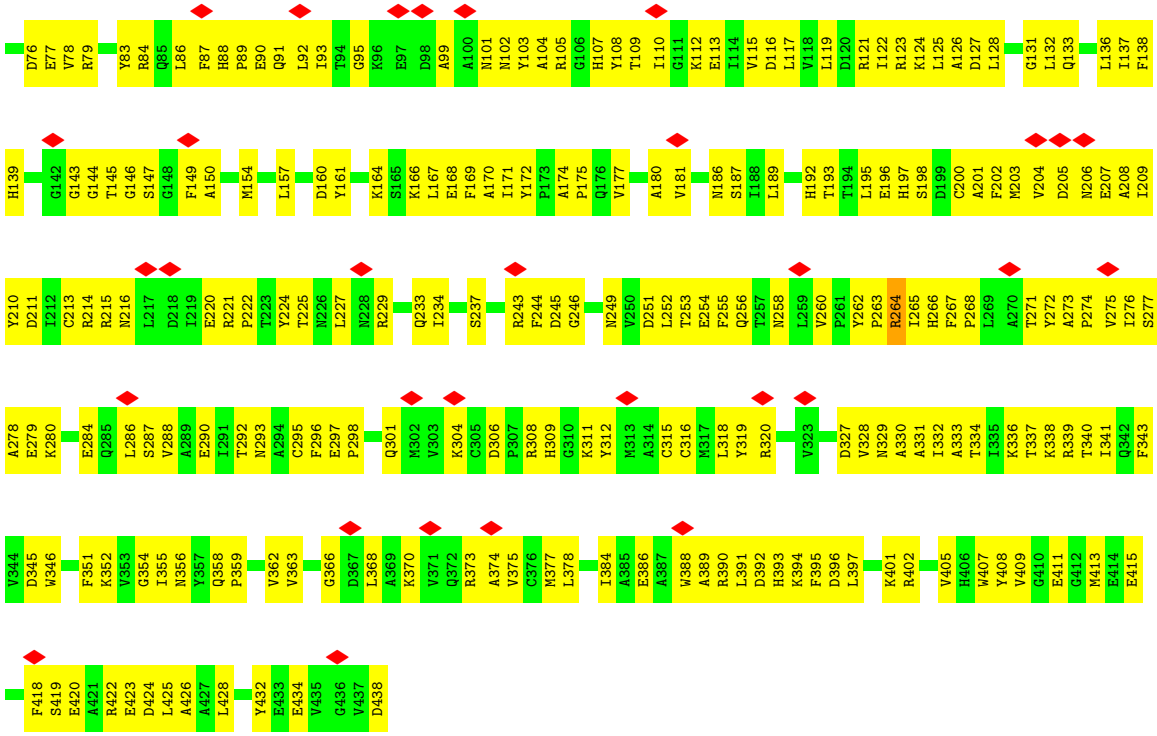


• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain MC:



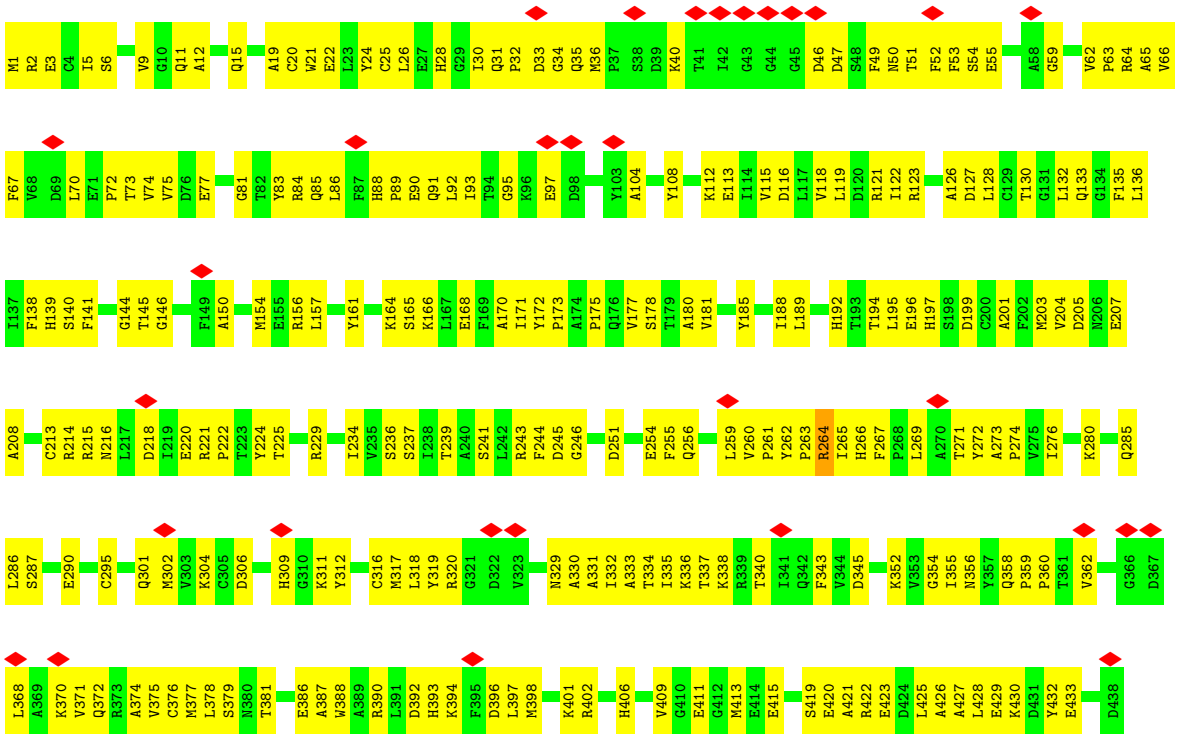




• Molecule 4: Detyrosinated tubulin alpha-3 chain

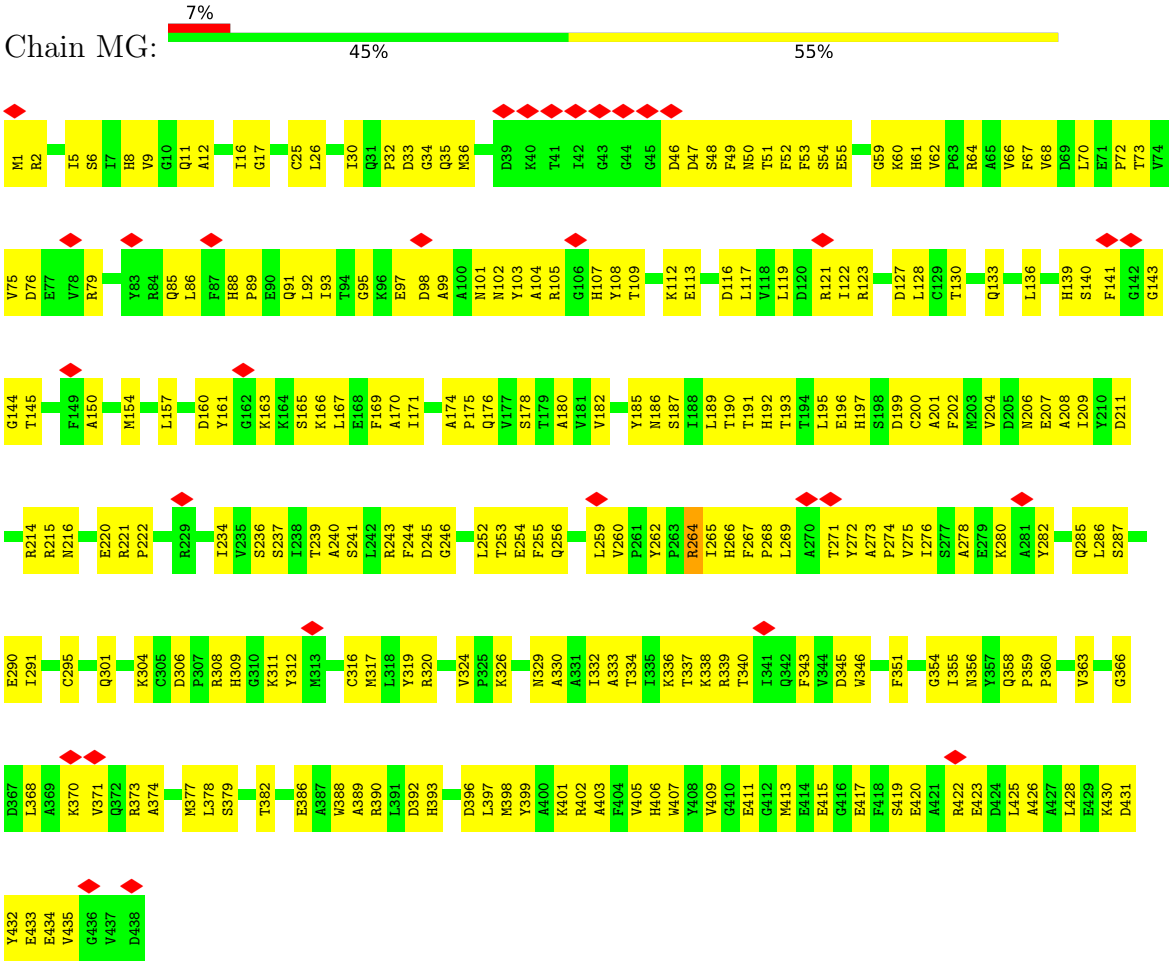
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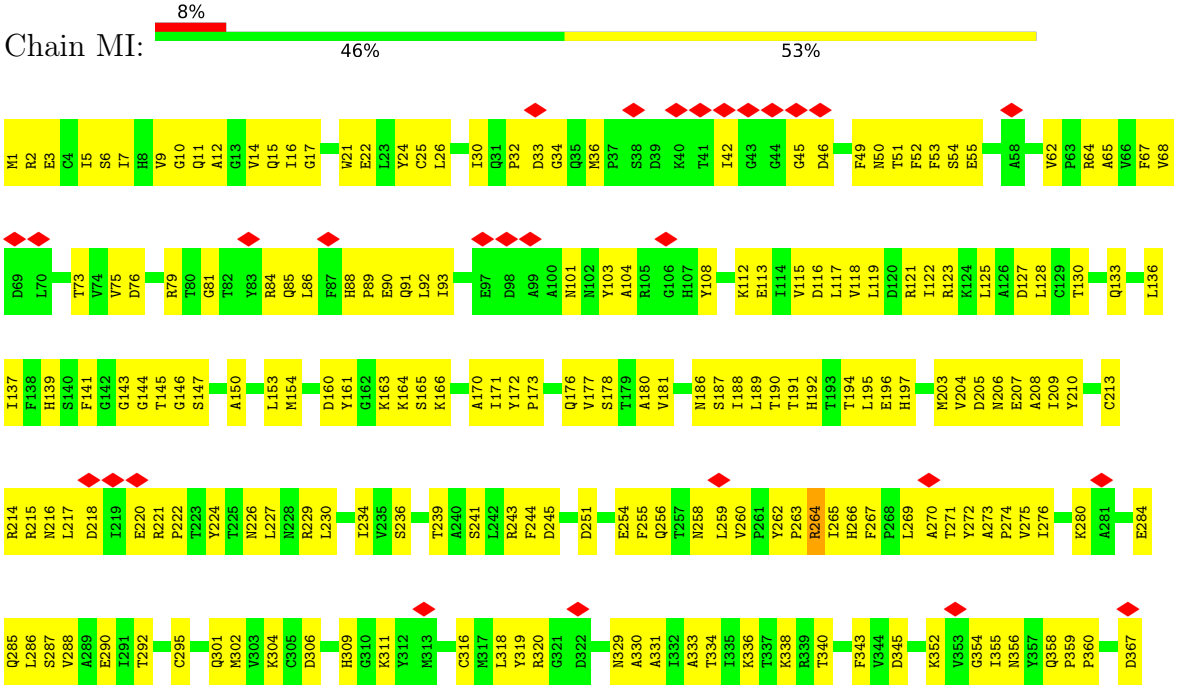
• Molecule 4: Detyrosinated tubulin alpha-3 chain

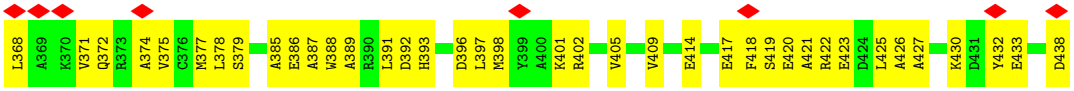
Chain MG:



• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain MI:

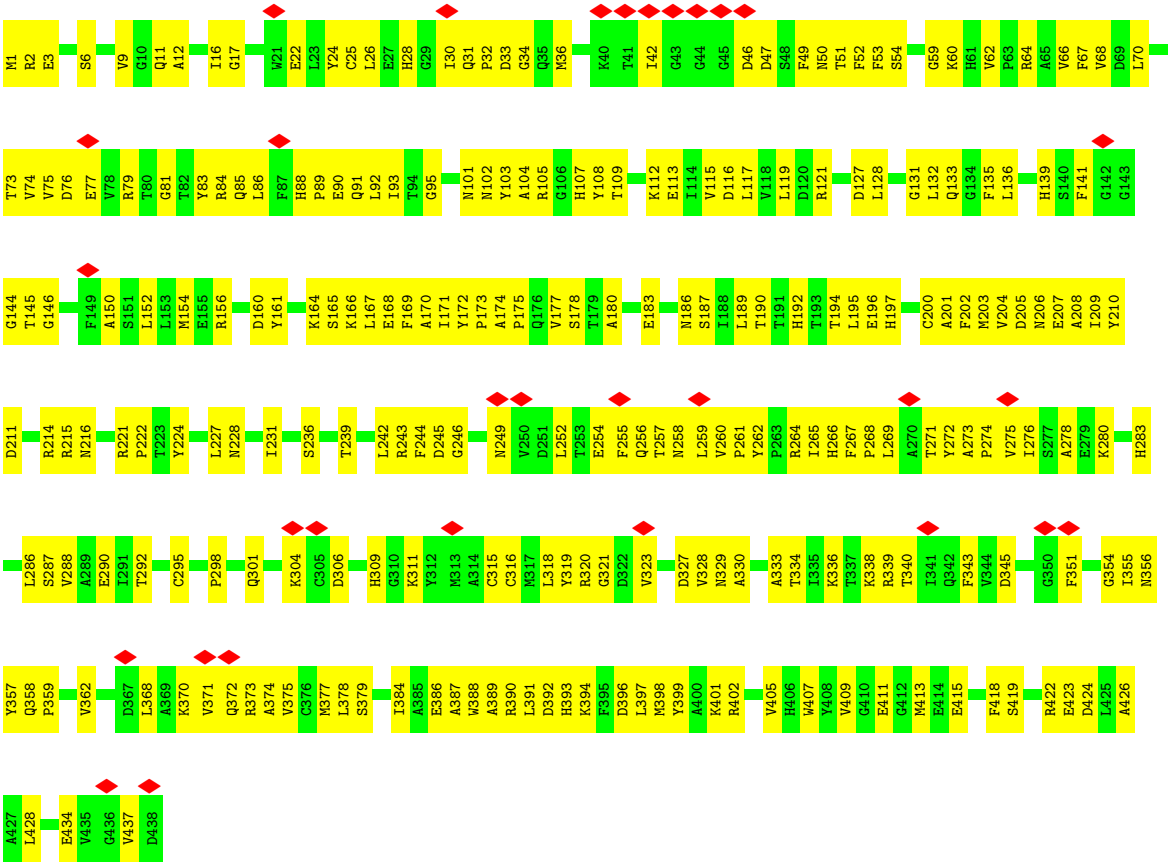




• Molecule 4: Detyrosinated tubulin alpha-3 chain

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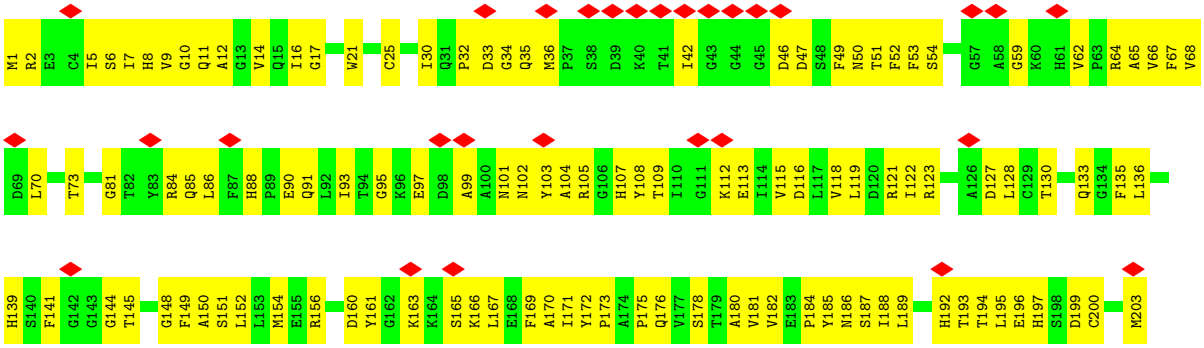


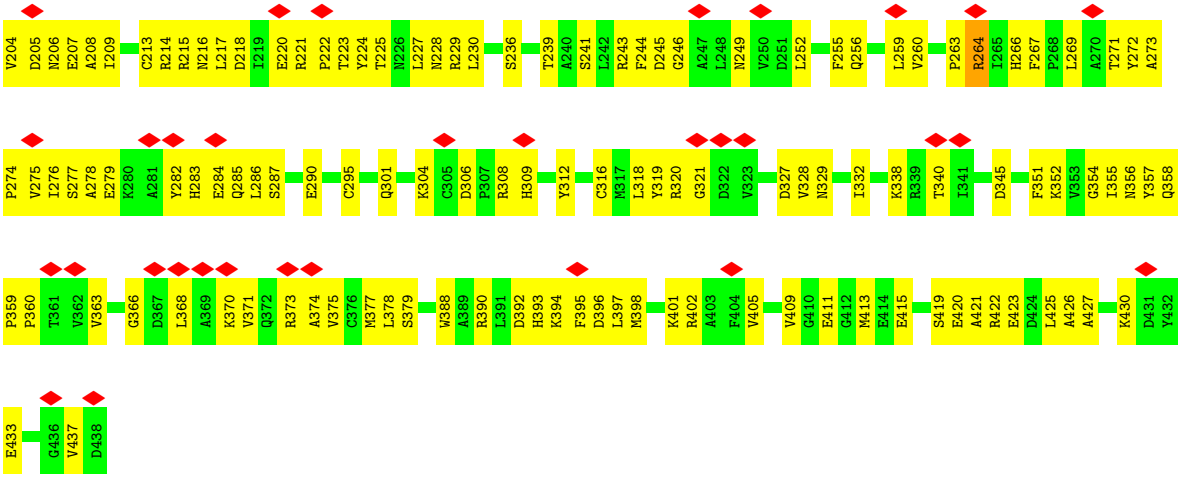


• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain MM:



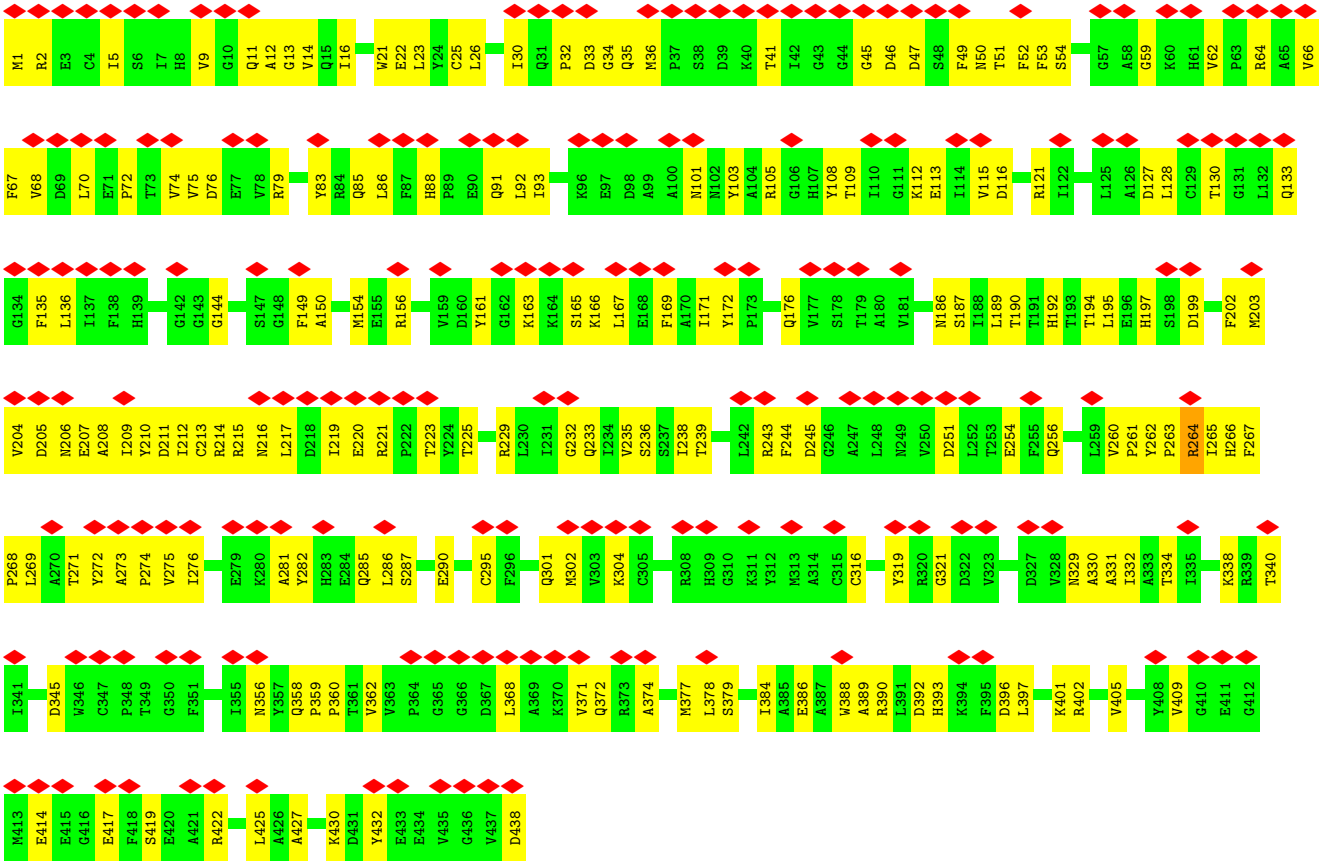




• Molecule 4: Detyrosinated tubulin alpha-3 chain

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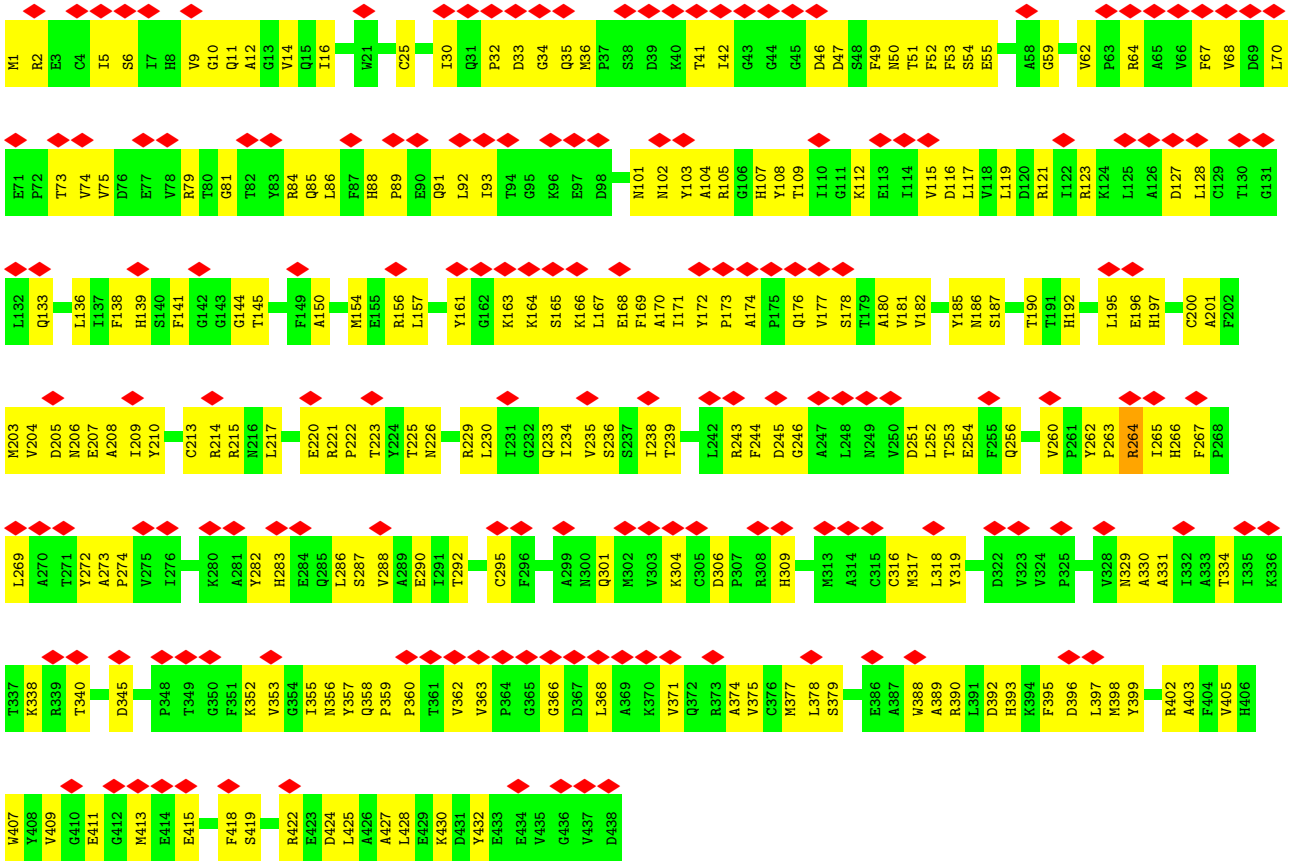




• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain NC:

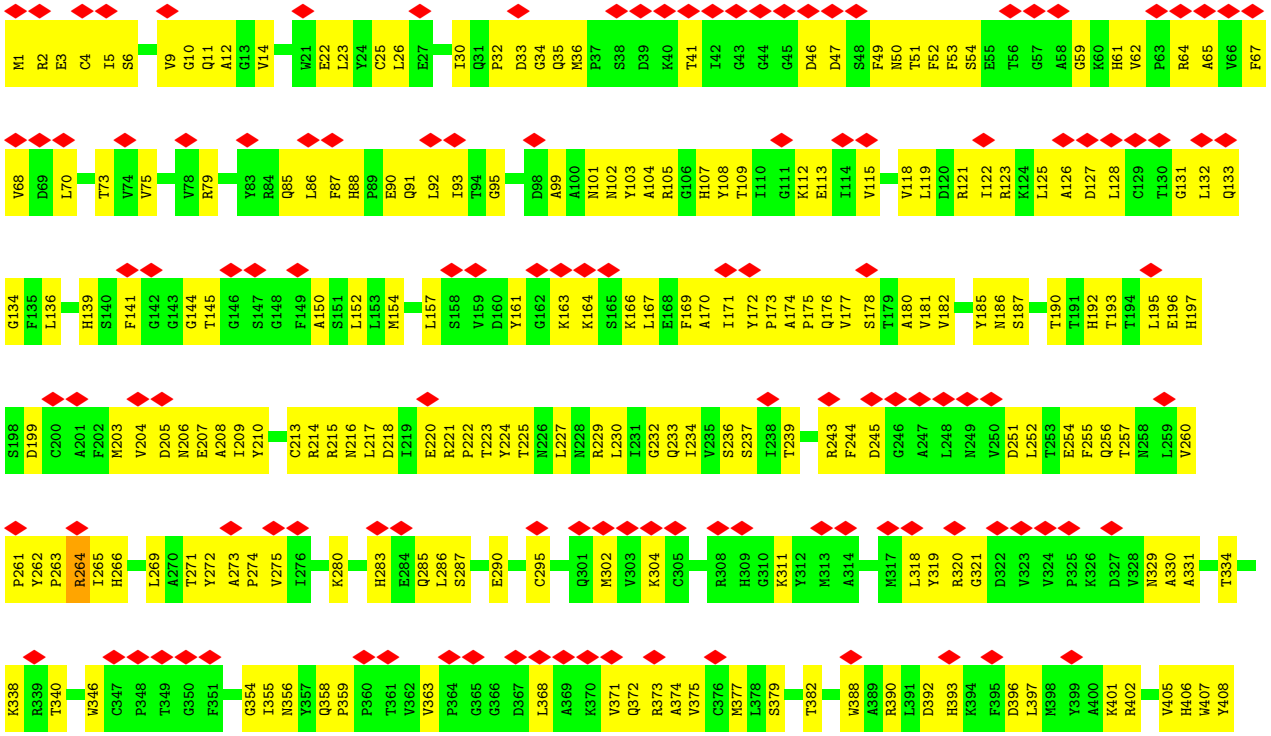


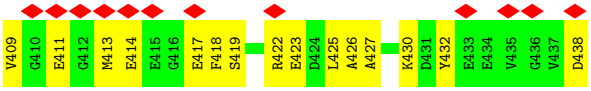


• Molecule 4: Detyrosinated tubulin alpha-3 chain

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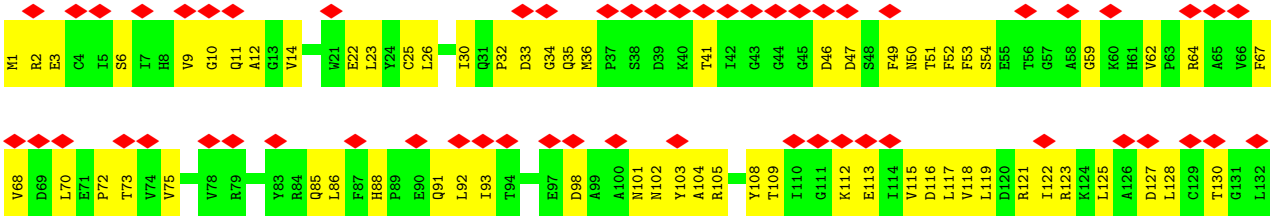




• Molecule 4: Detyrosinated tubulin alpha-3 chain

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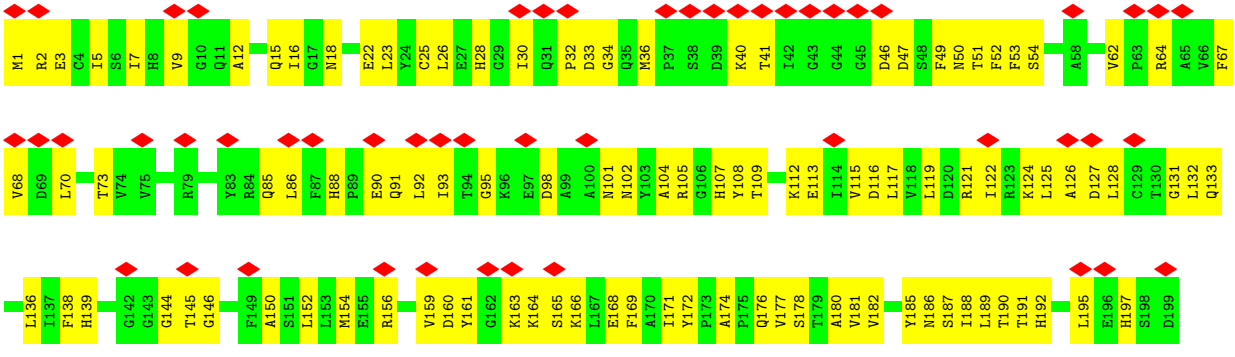


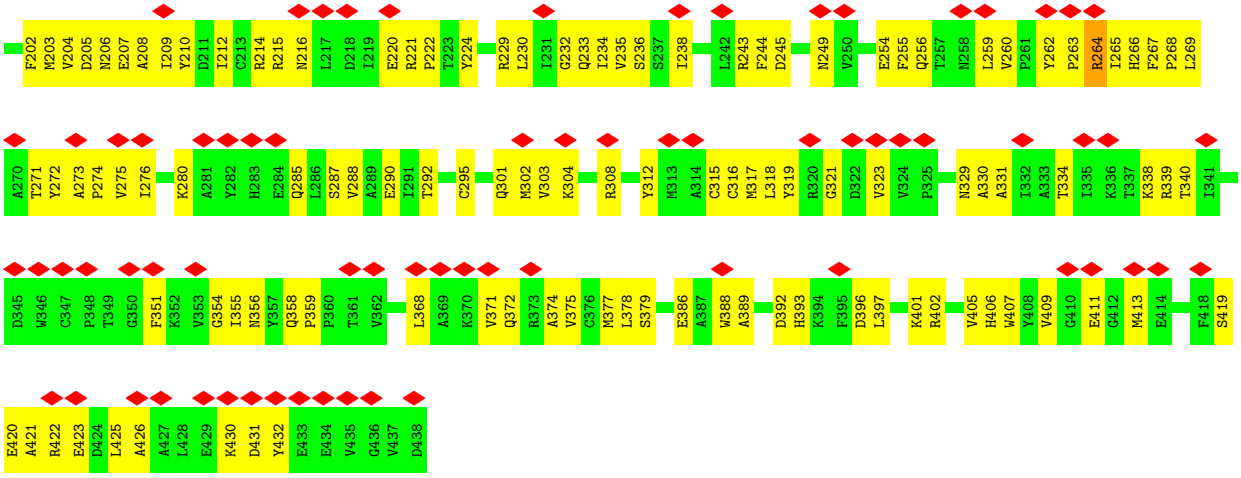


• Molecule 4: Detyrosinated tubulin alpha-3 chain

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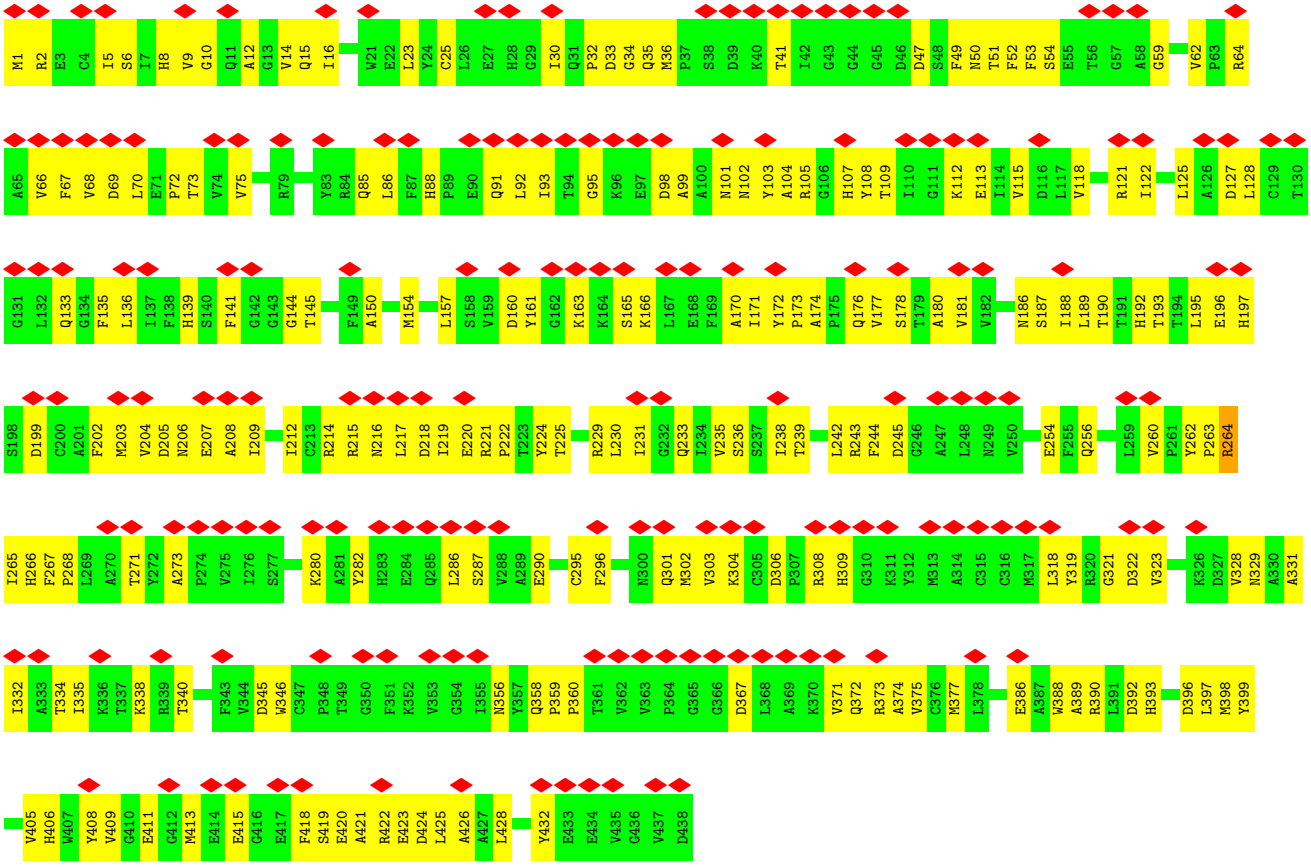




• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain NK:

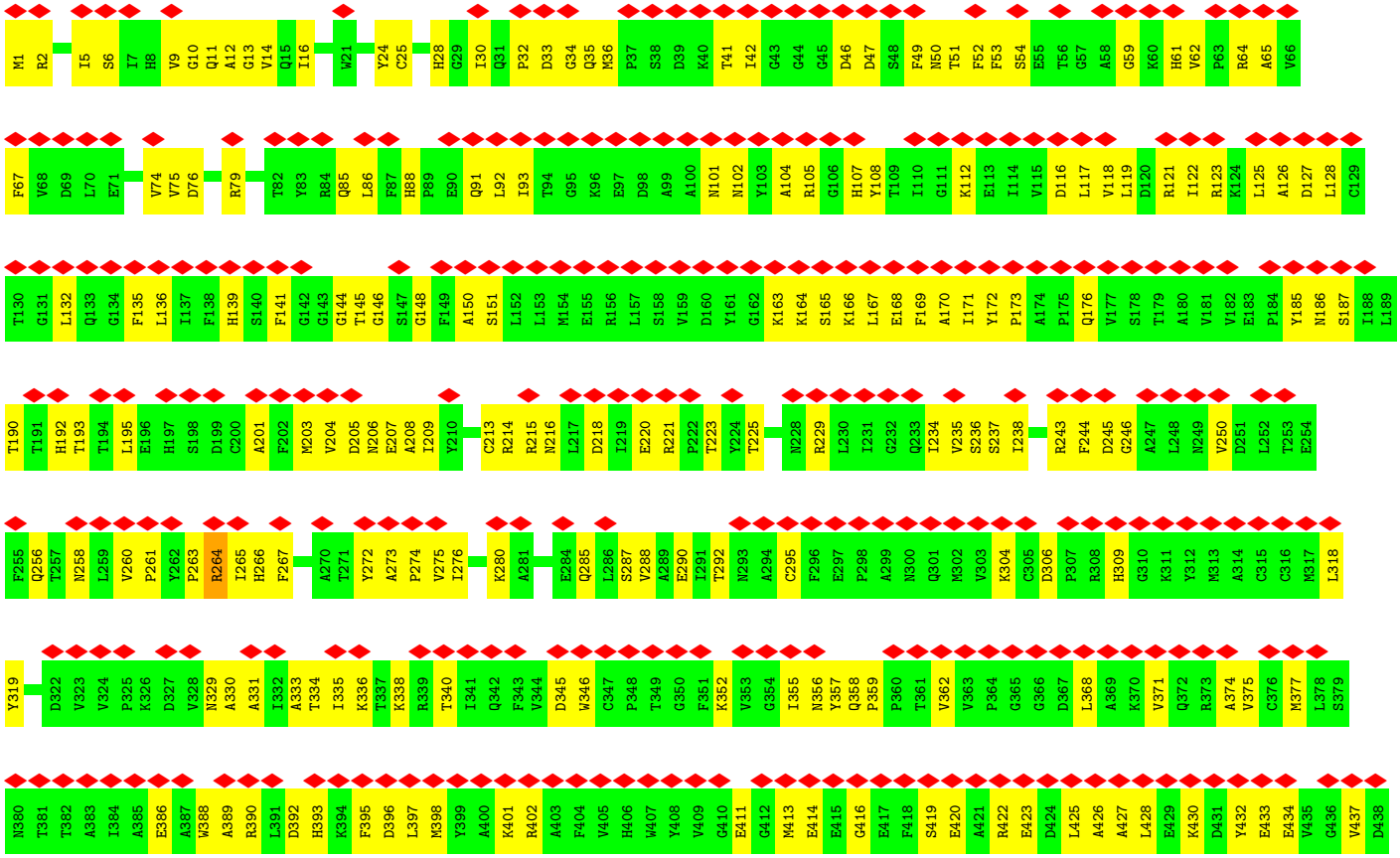




• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain OA:

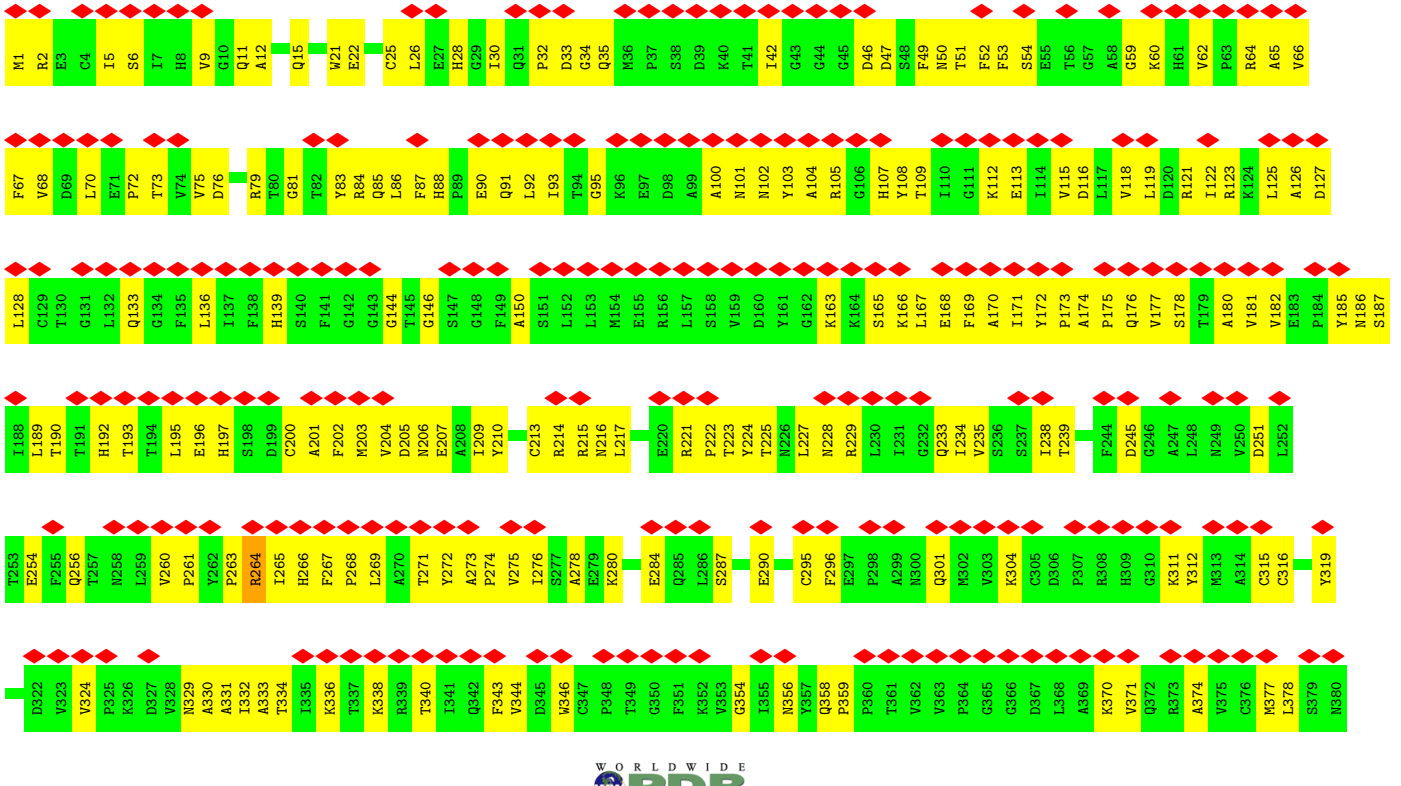


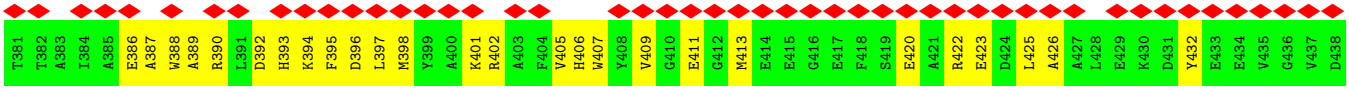


• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain OC:





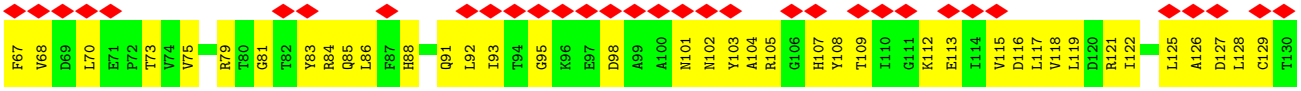


• Molecule 4: Detyrosinated tubulin alpha-3 chain

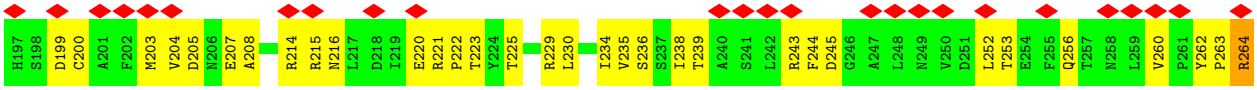
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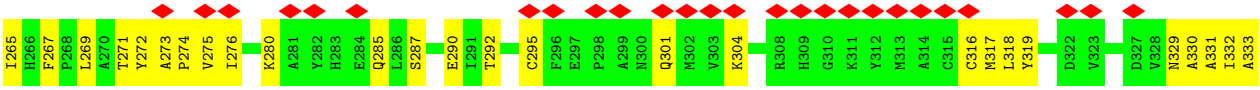


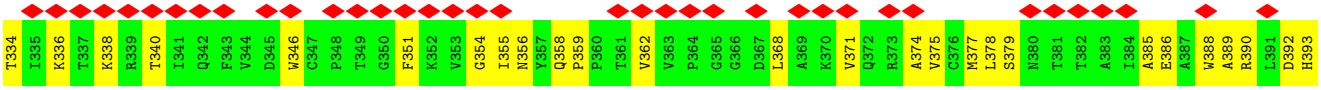


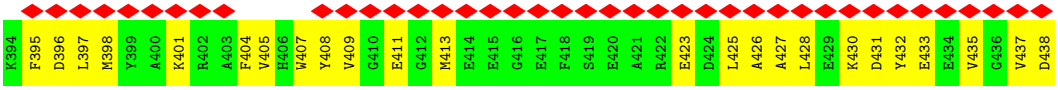








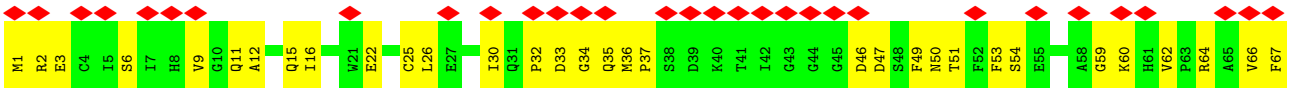


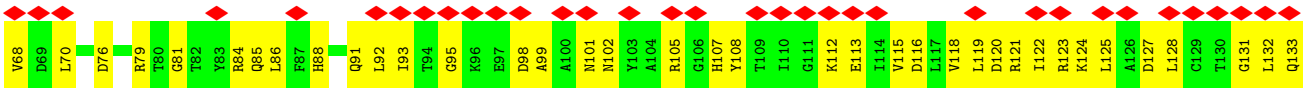


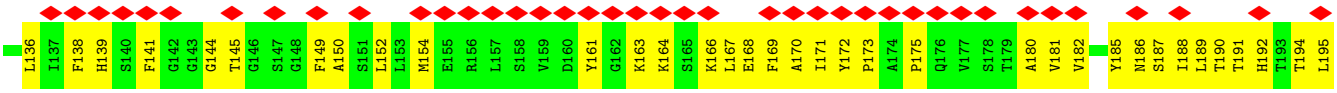
• Molecule 4: Detyrosinated tubulin alpha-3 chain

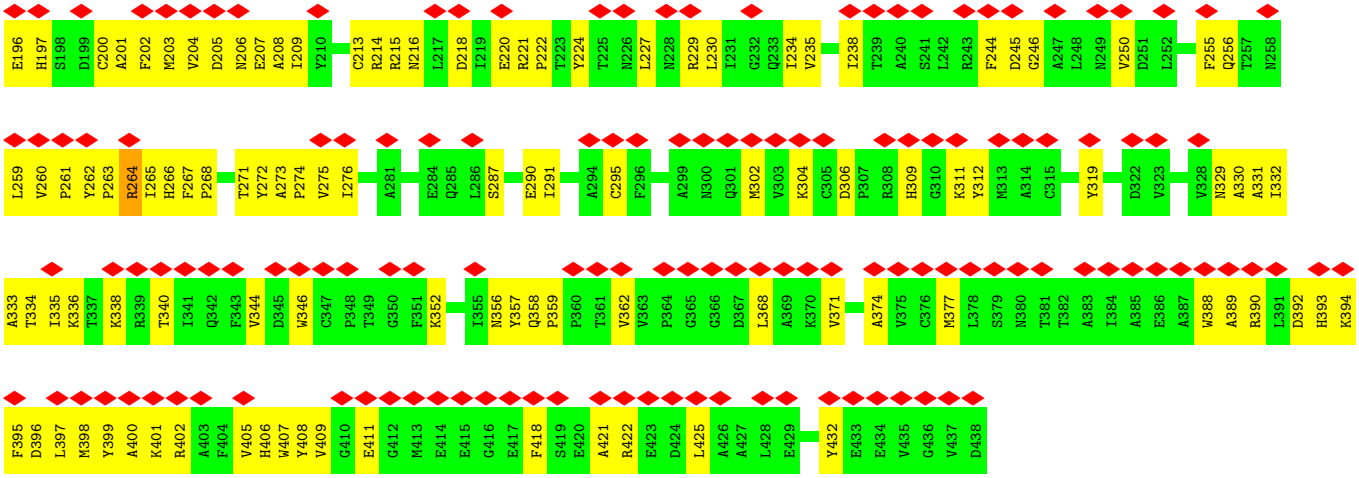
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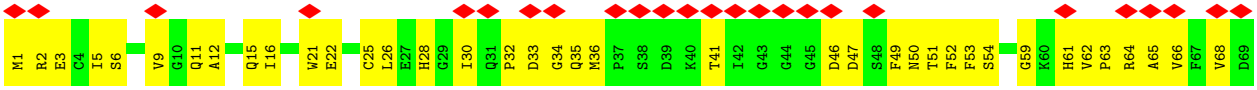


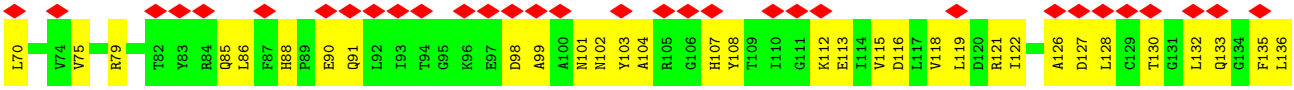


• Molecule 4: Detyrosinated tubulin alpha-3 chain

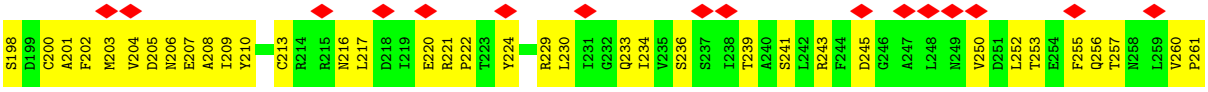
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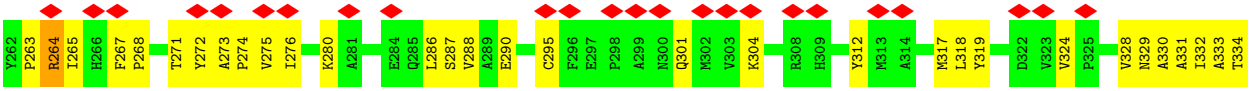


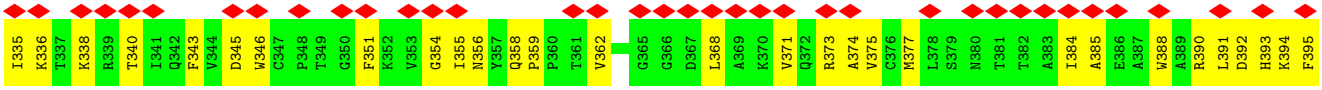










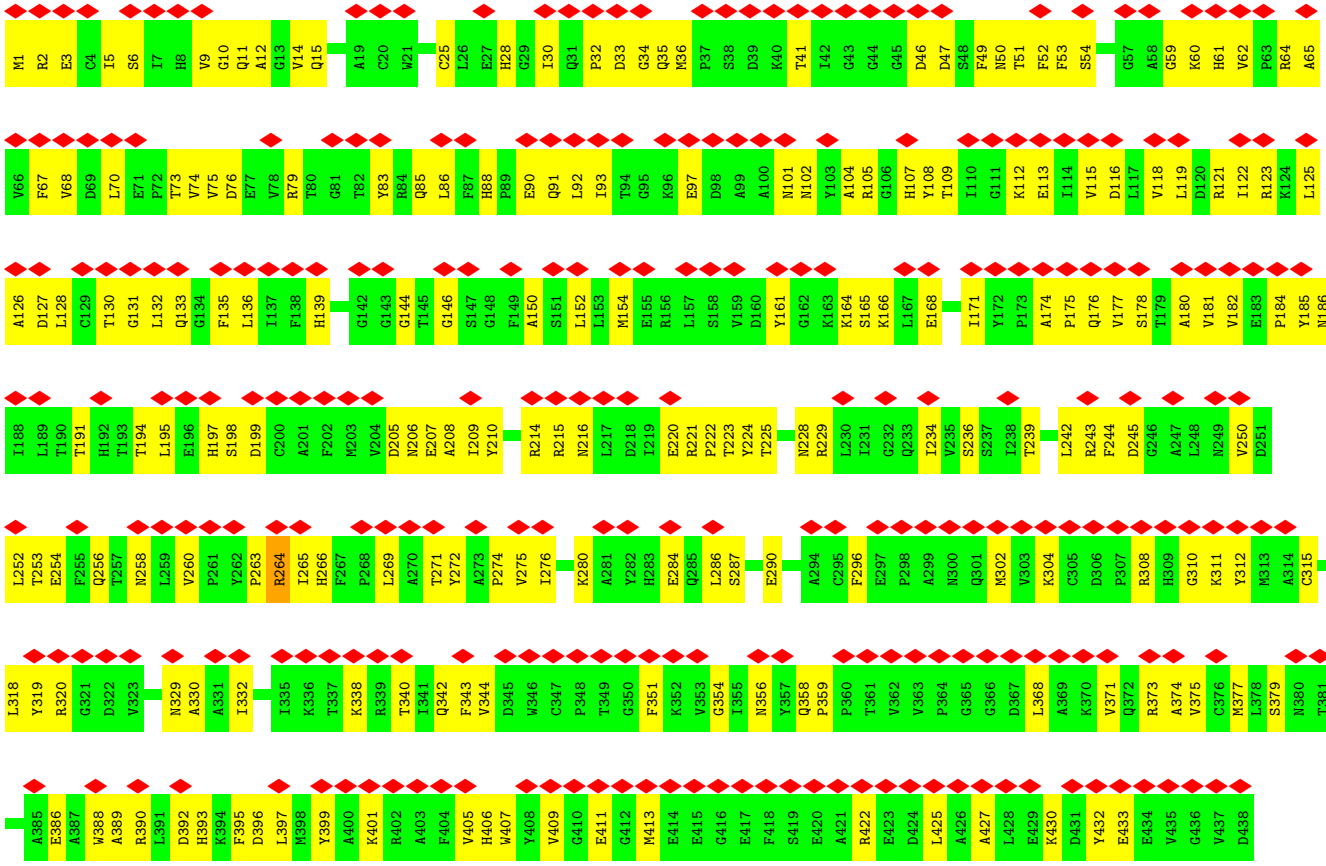




• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain OK:

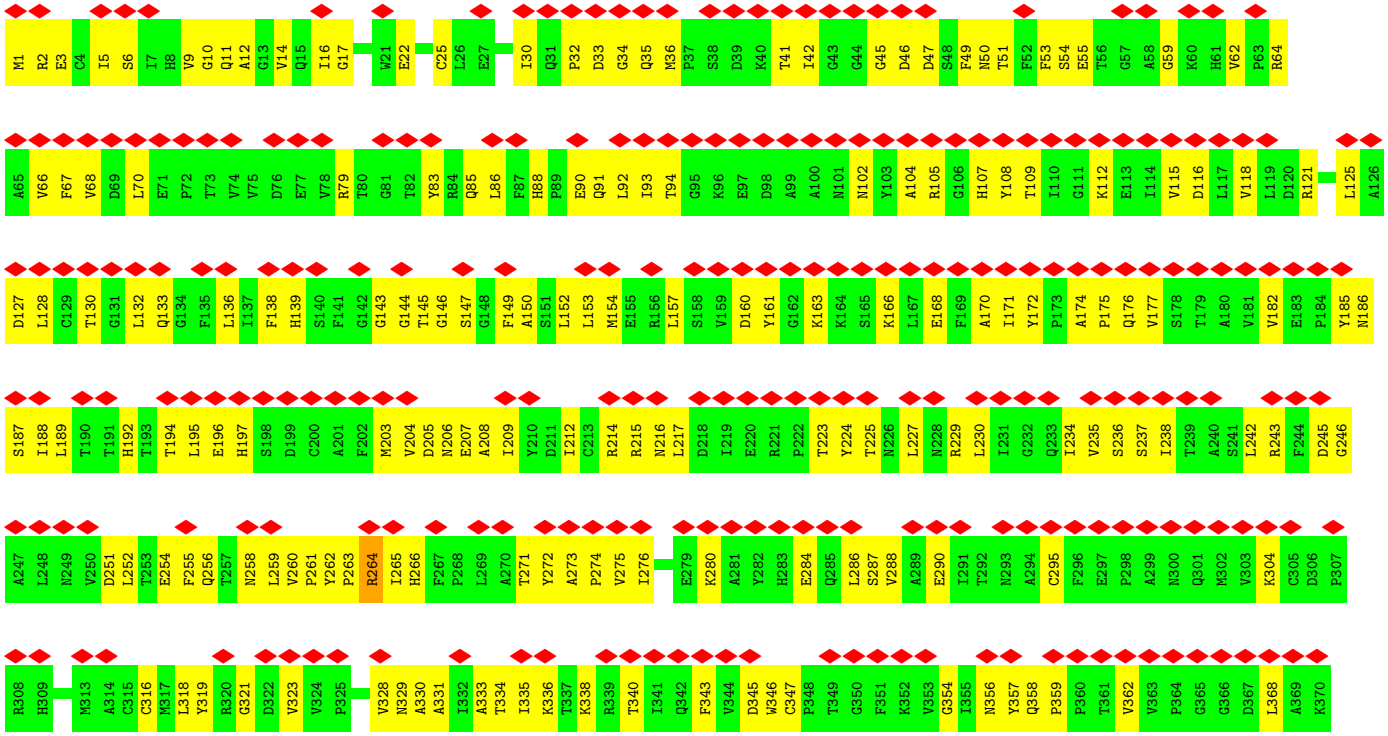


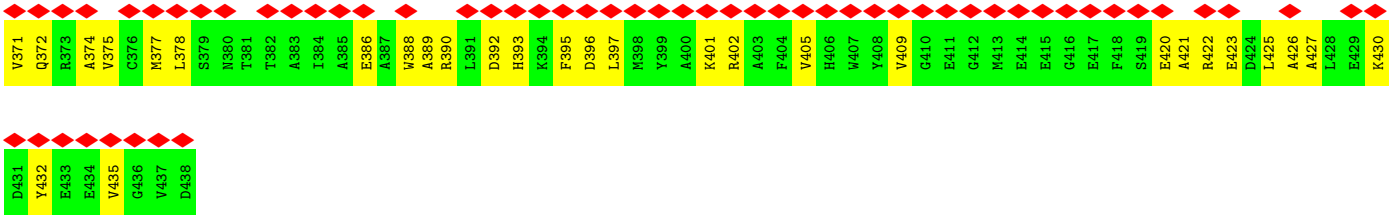


• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain PA:



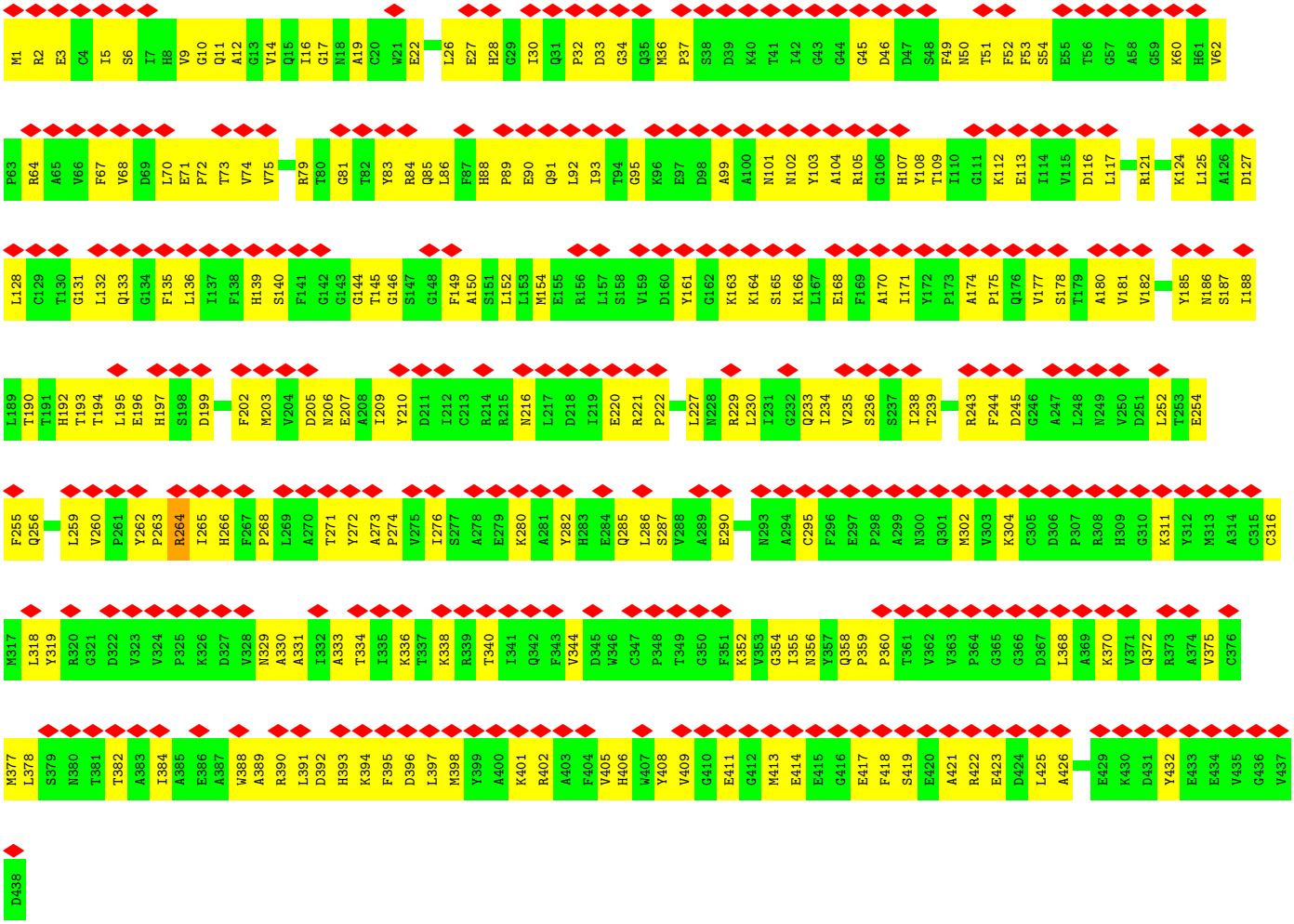




• Molecule 4: Detyrosinated tubulin alpha-3 chain

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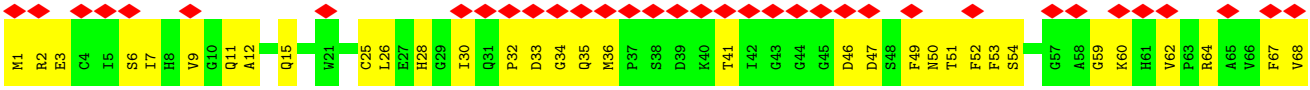


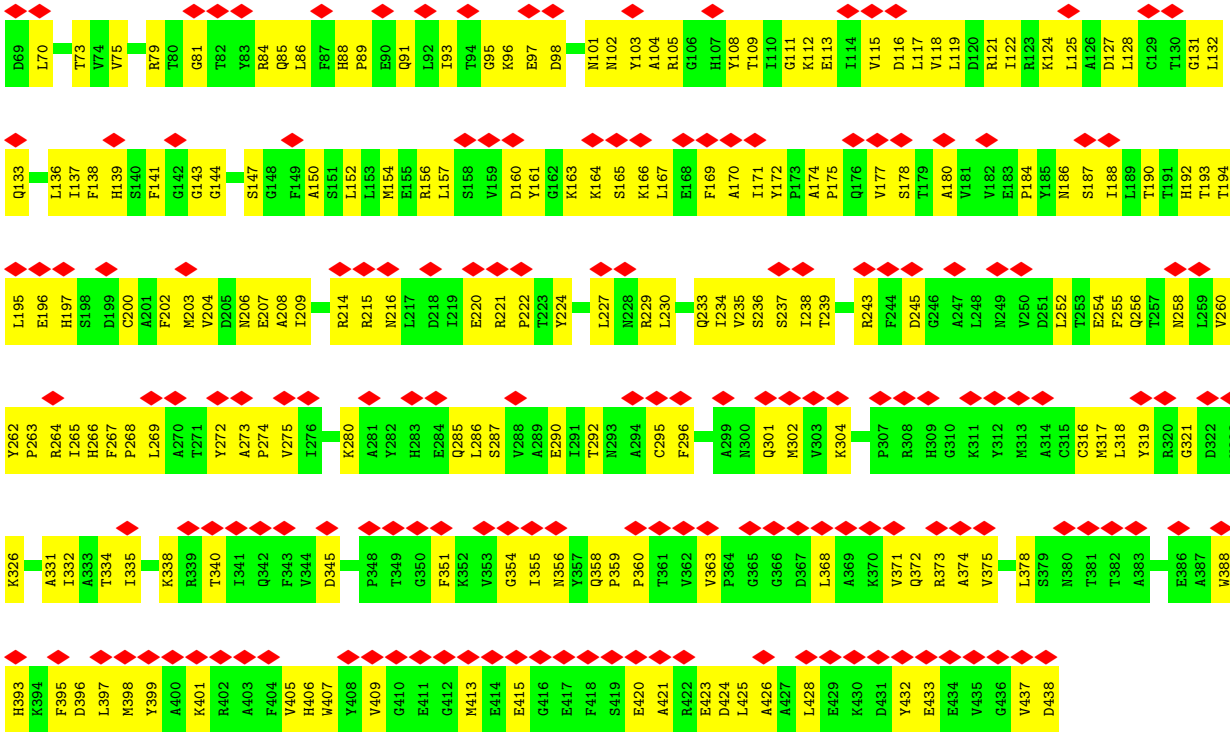


• Molecule 4: Detyrosinated tubulin alpha-3 chain

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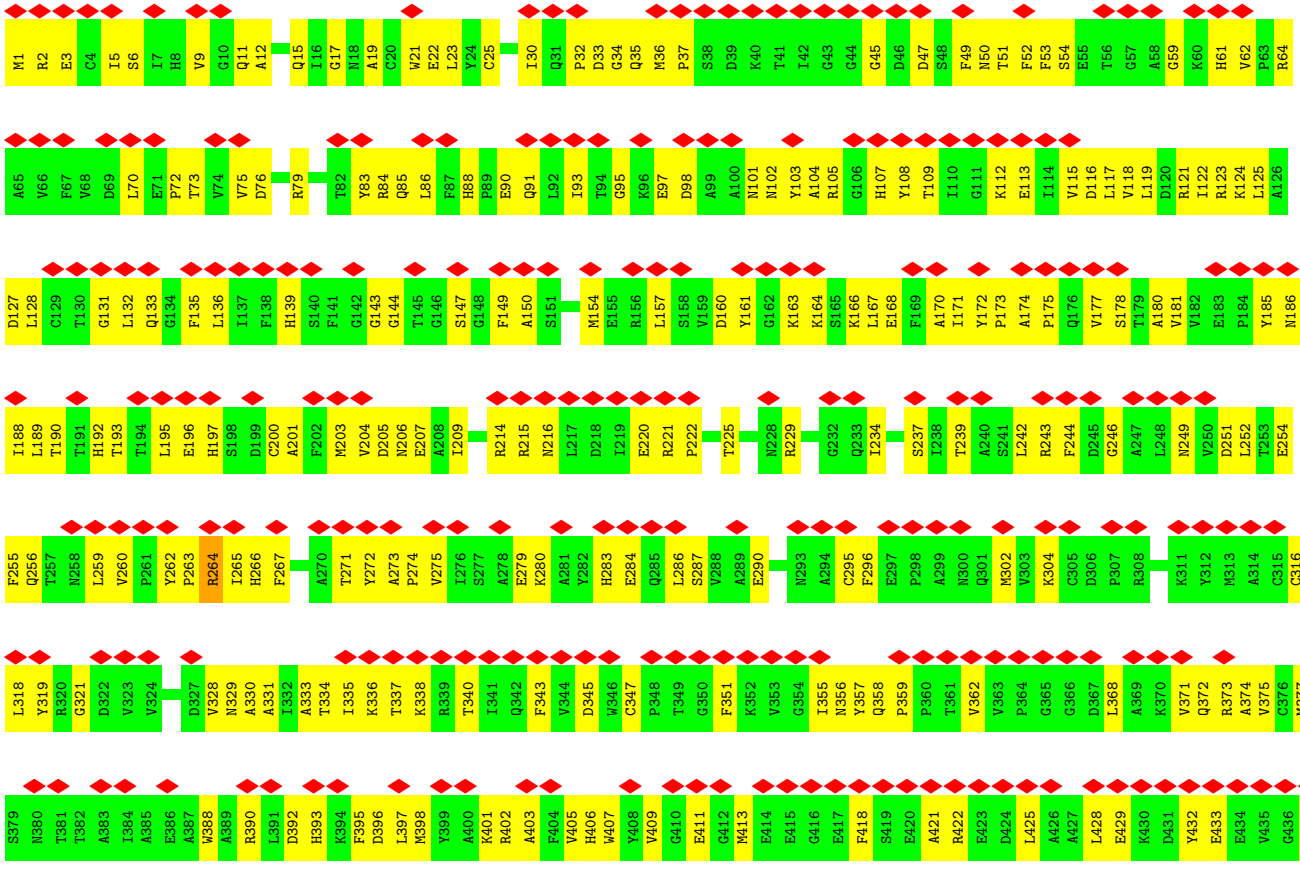




• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain PG:

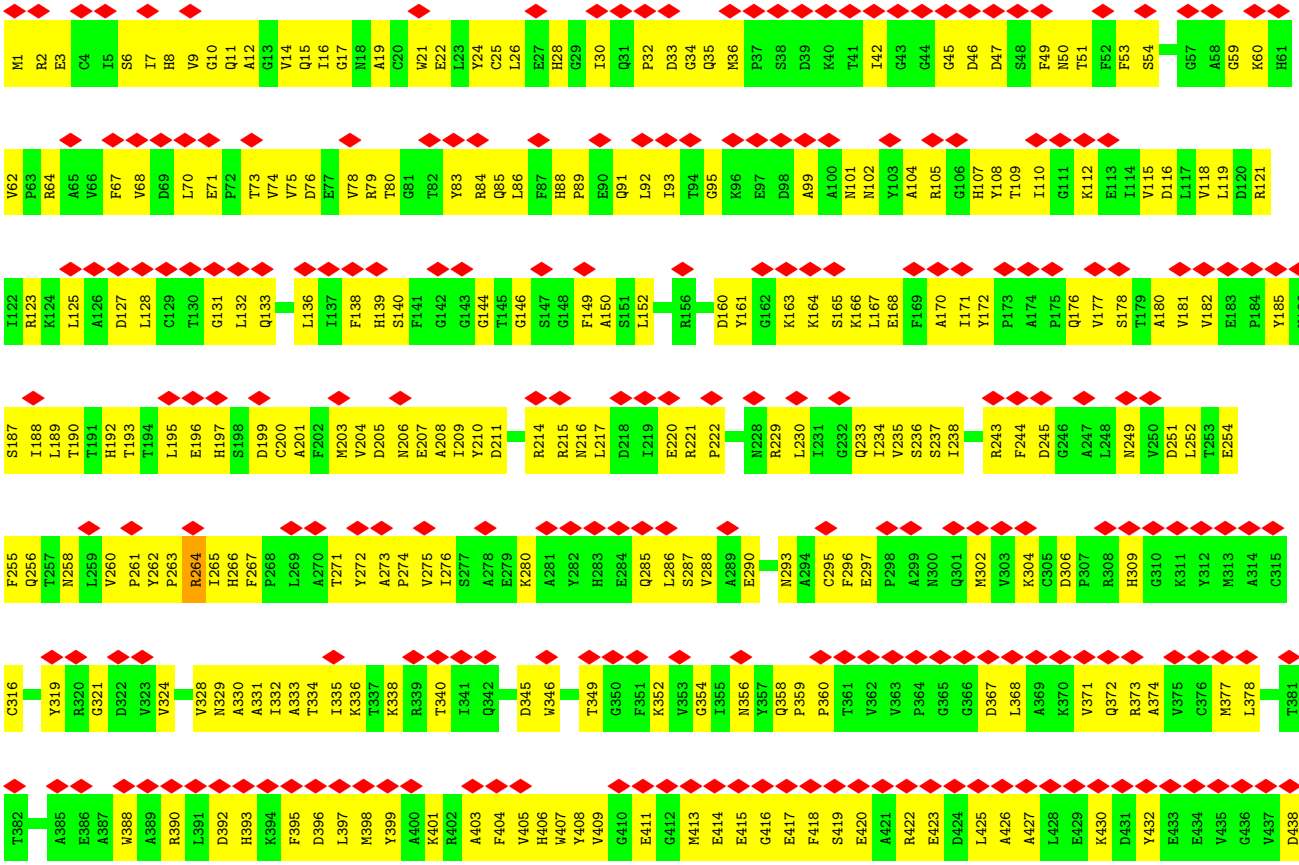




• Molecule 4: Detyrosinated tubulin alpha-3 chain

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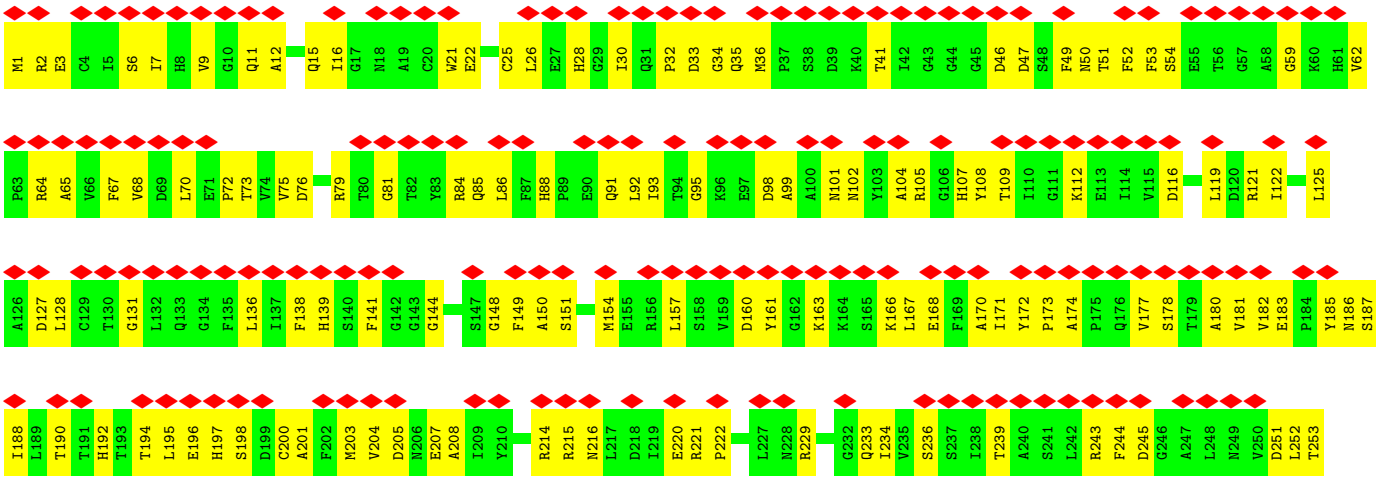




• Molecule 4: Detyrosinated tubulin alpha-3 chain

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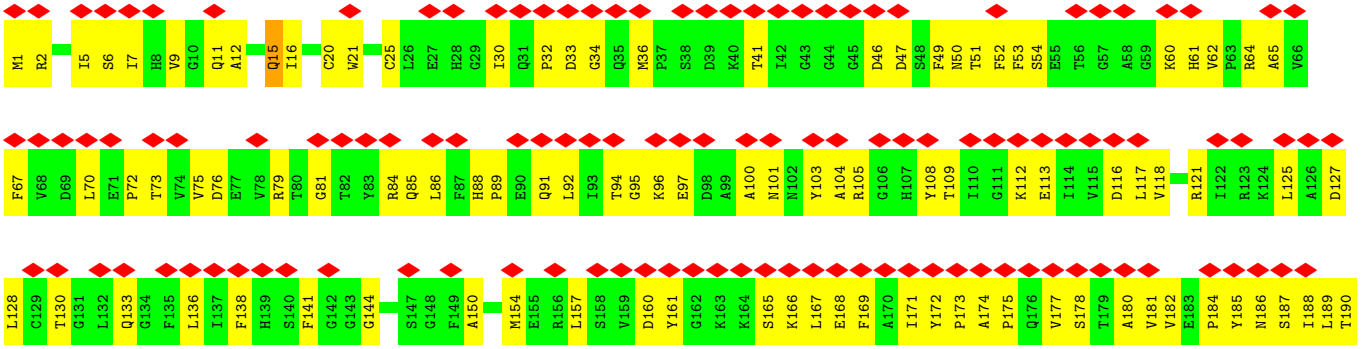




• Molecule 4: Detyrosinated tubulin alpha-3 chain

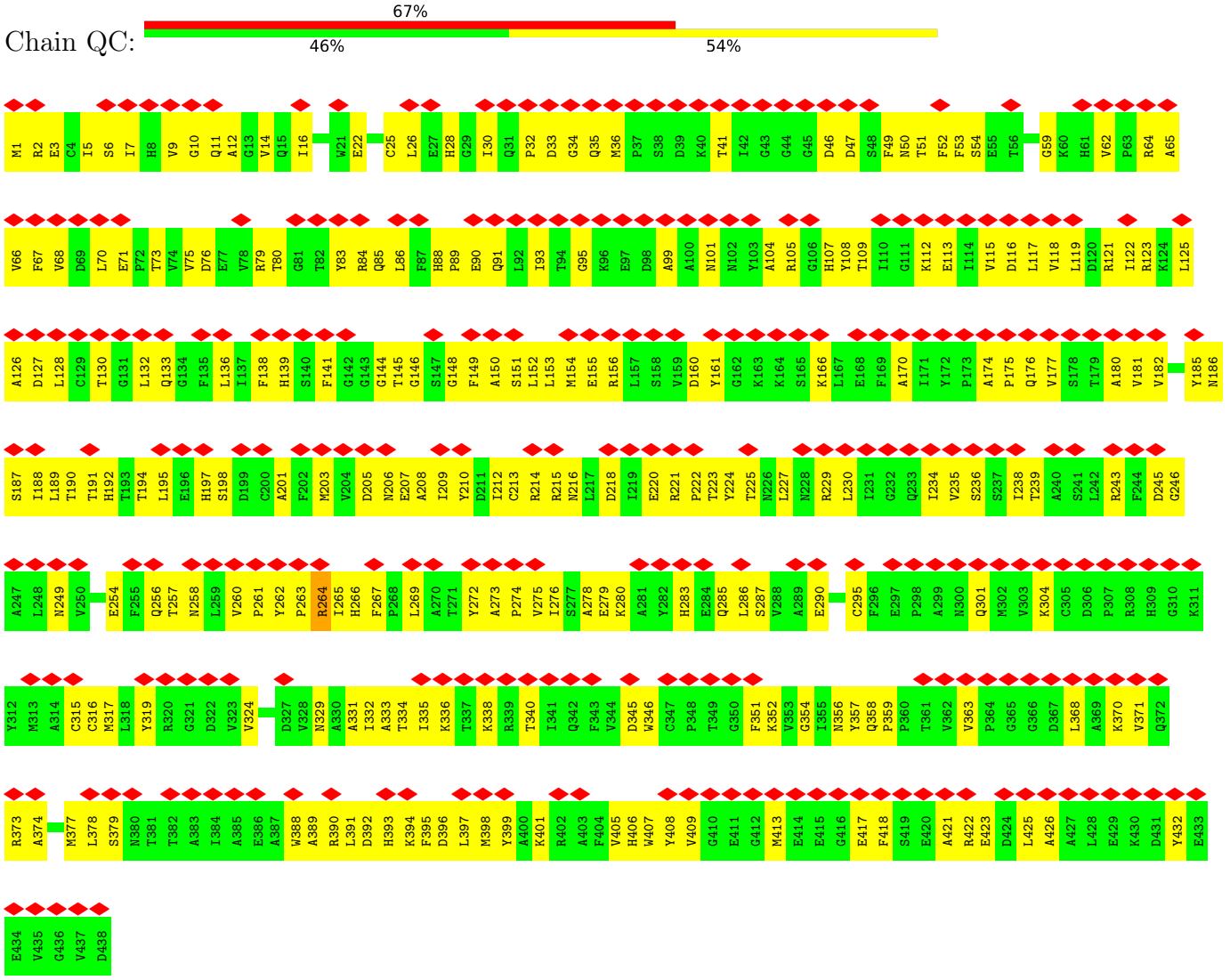
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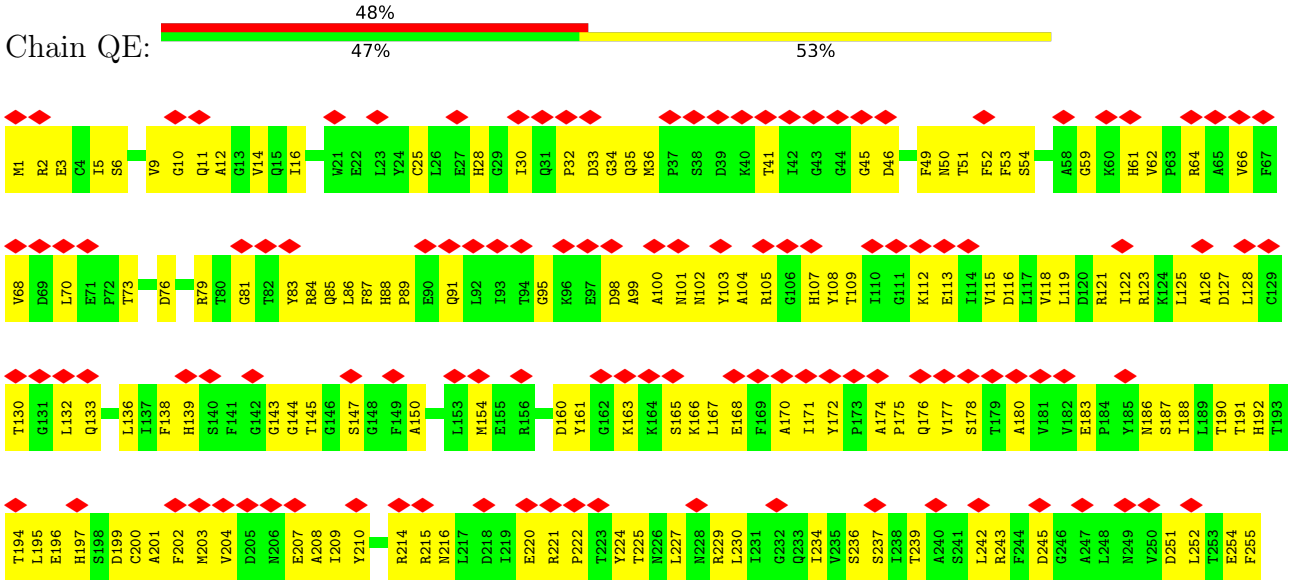
• Molecule 4: Detyrosinated tubulin alpha-3 chain

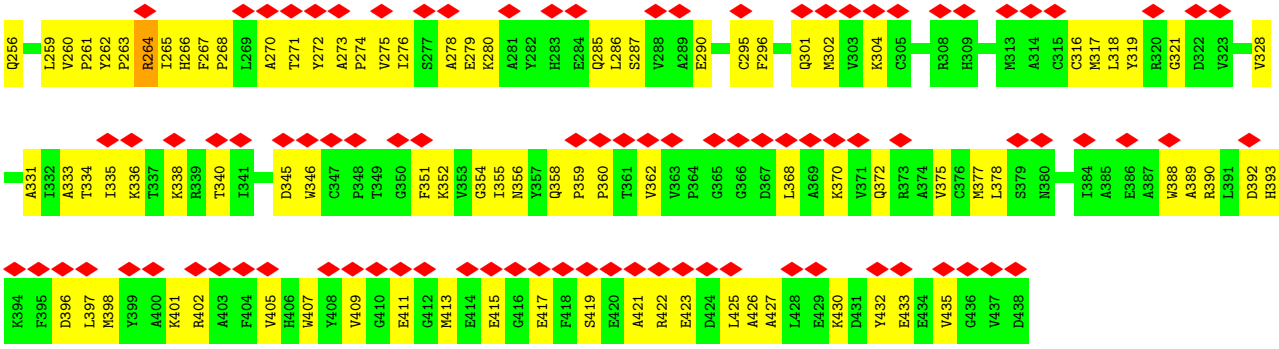
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• Molecule 4: Detyrosinated tubulin alpha-3 chain

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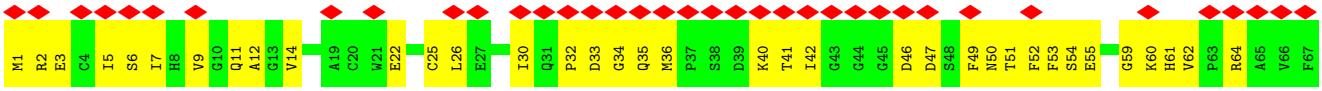


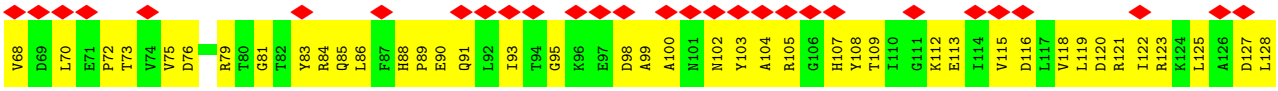


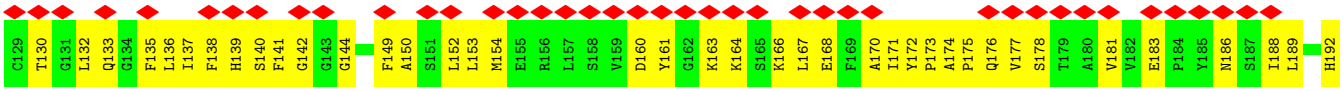
• Molecule 4: Detyrosinated tubulin alpha-3 chain

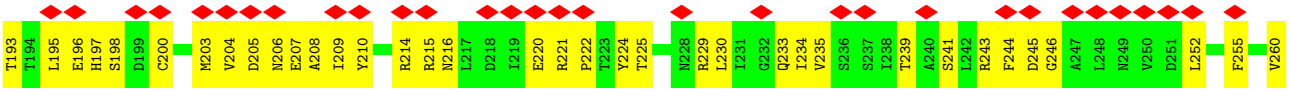
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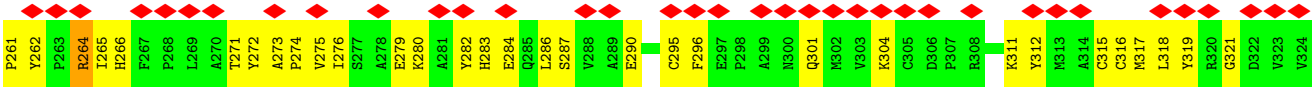


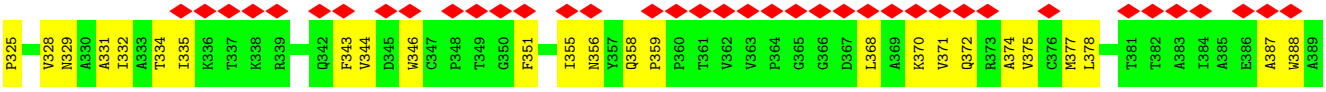


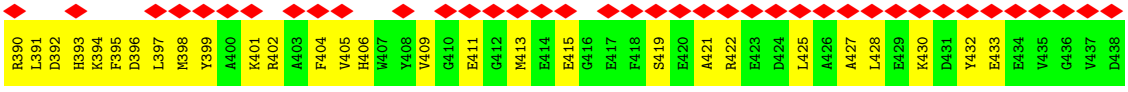








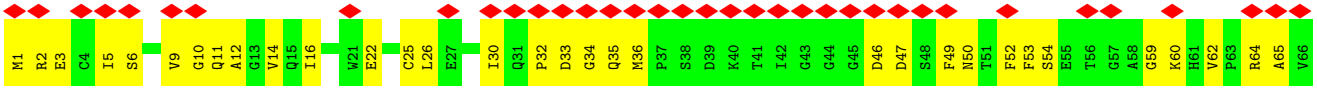


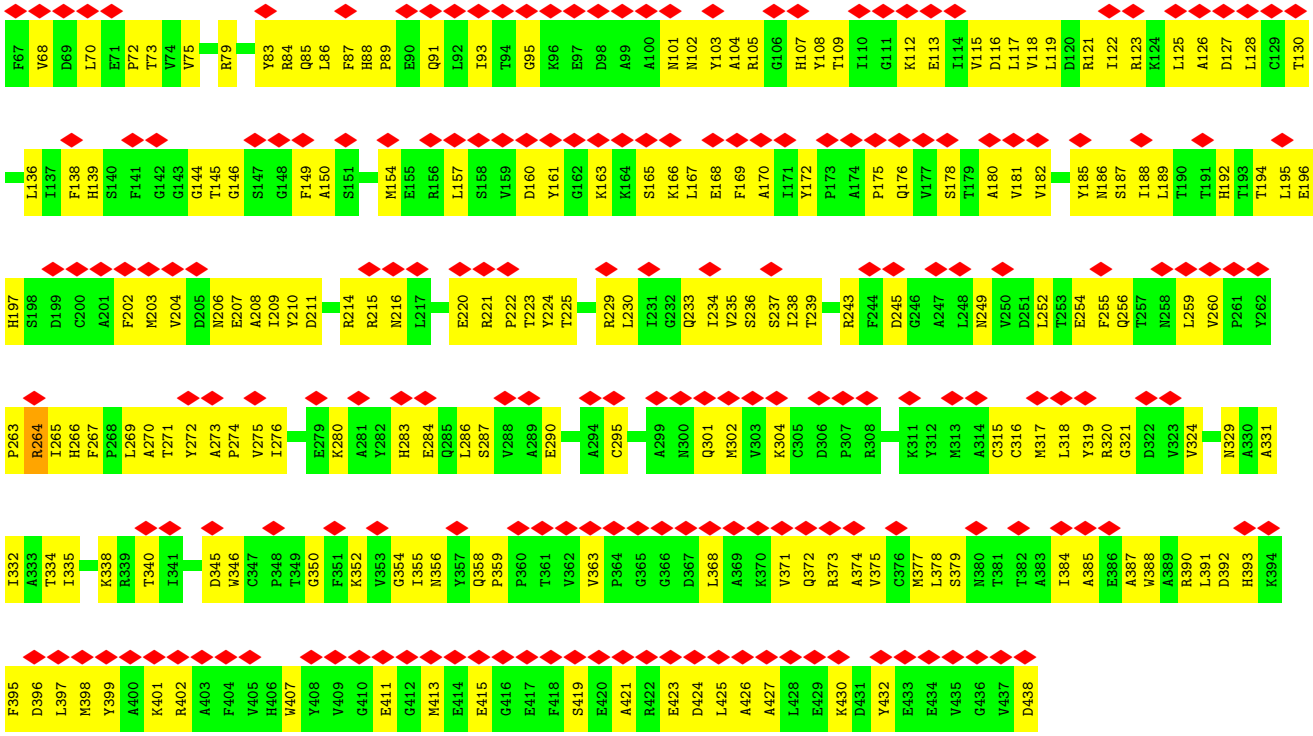


• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain QI:



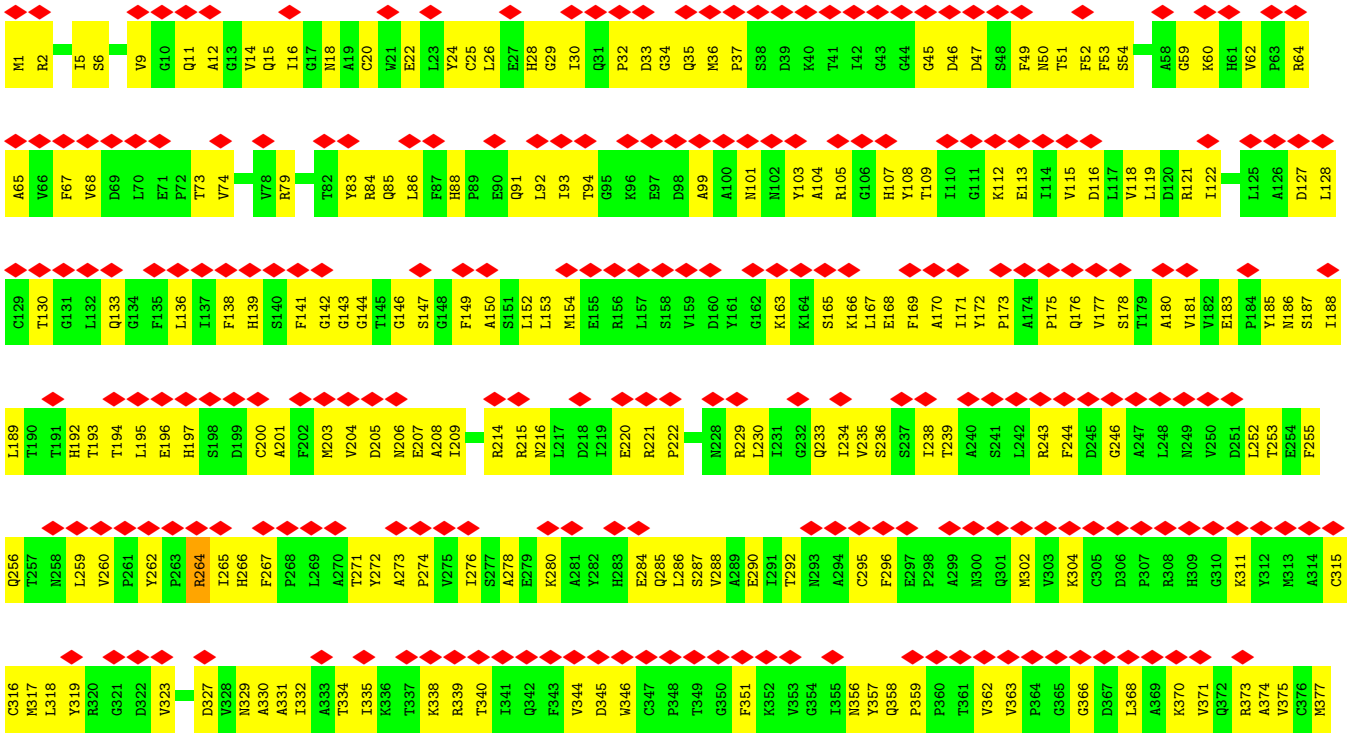


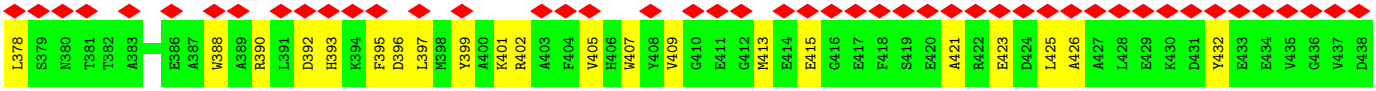


• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain QK:



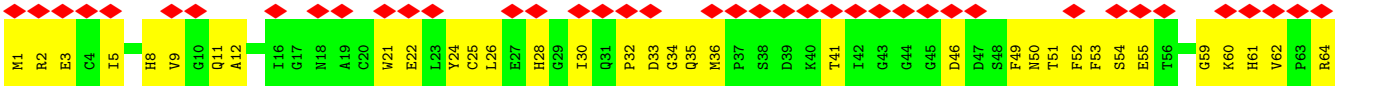


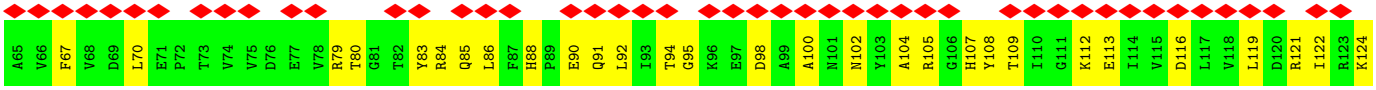


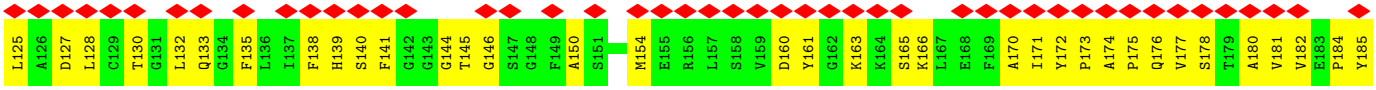
• Molecule 4: Detyrosinated tubulin alpha-3 chain

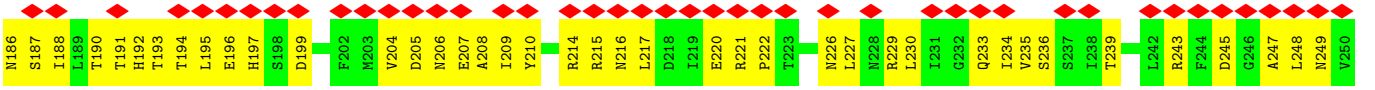
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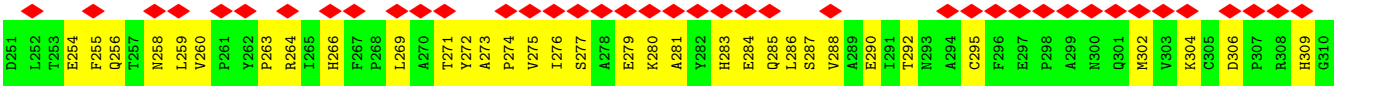


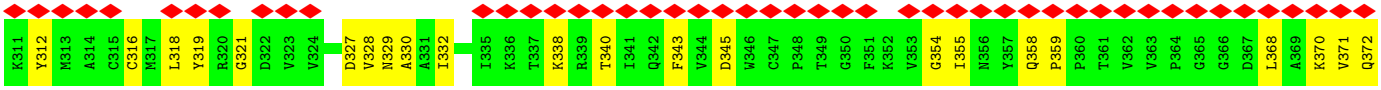


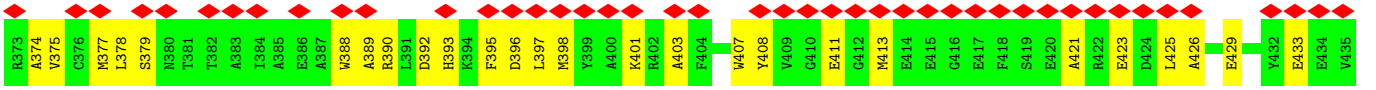














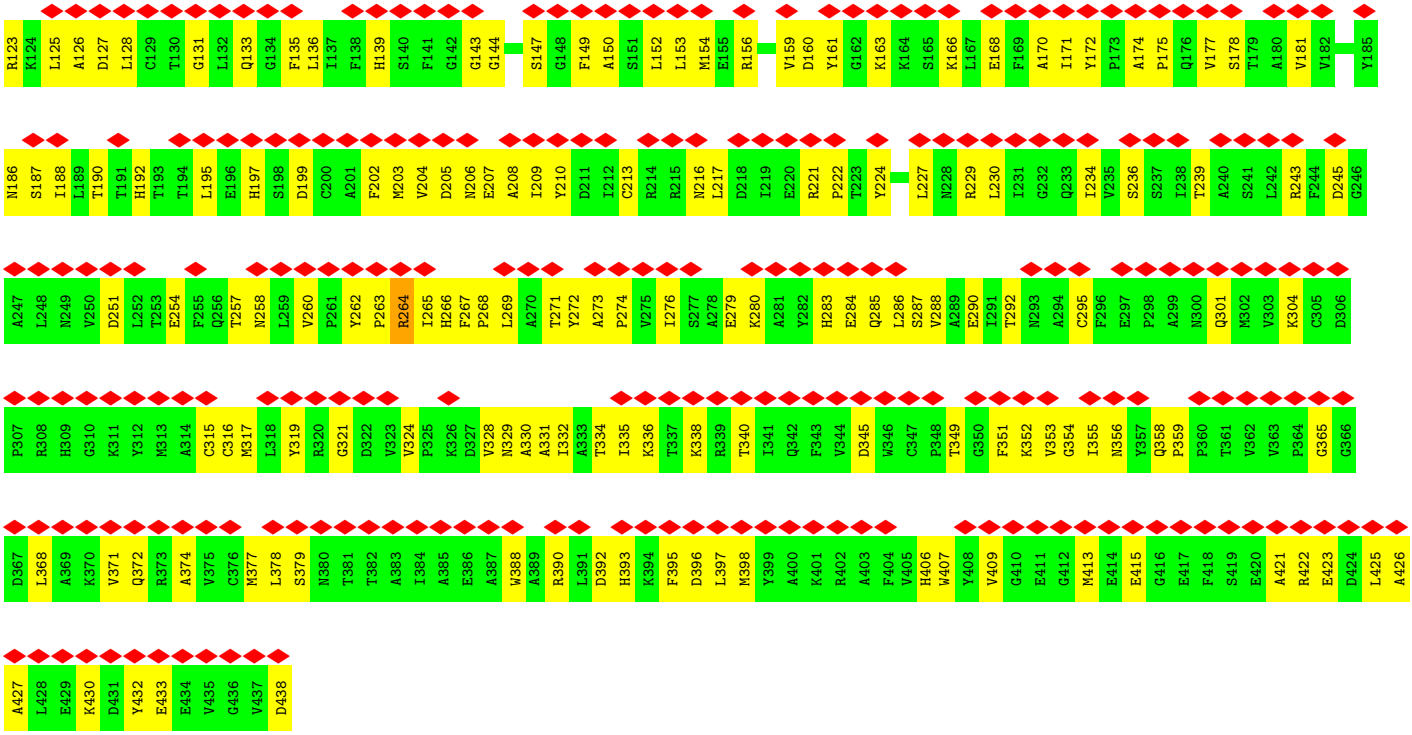
• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain RC:





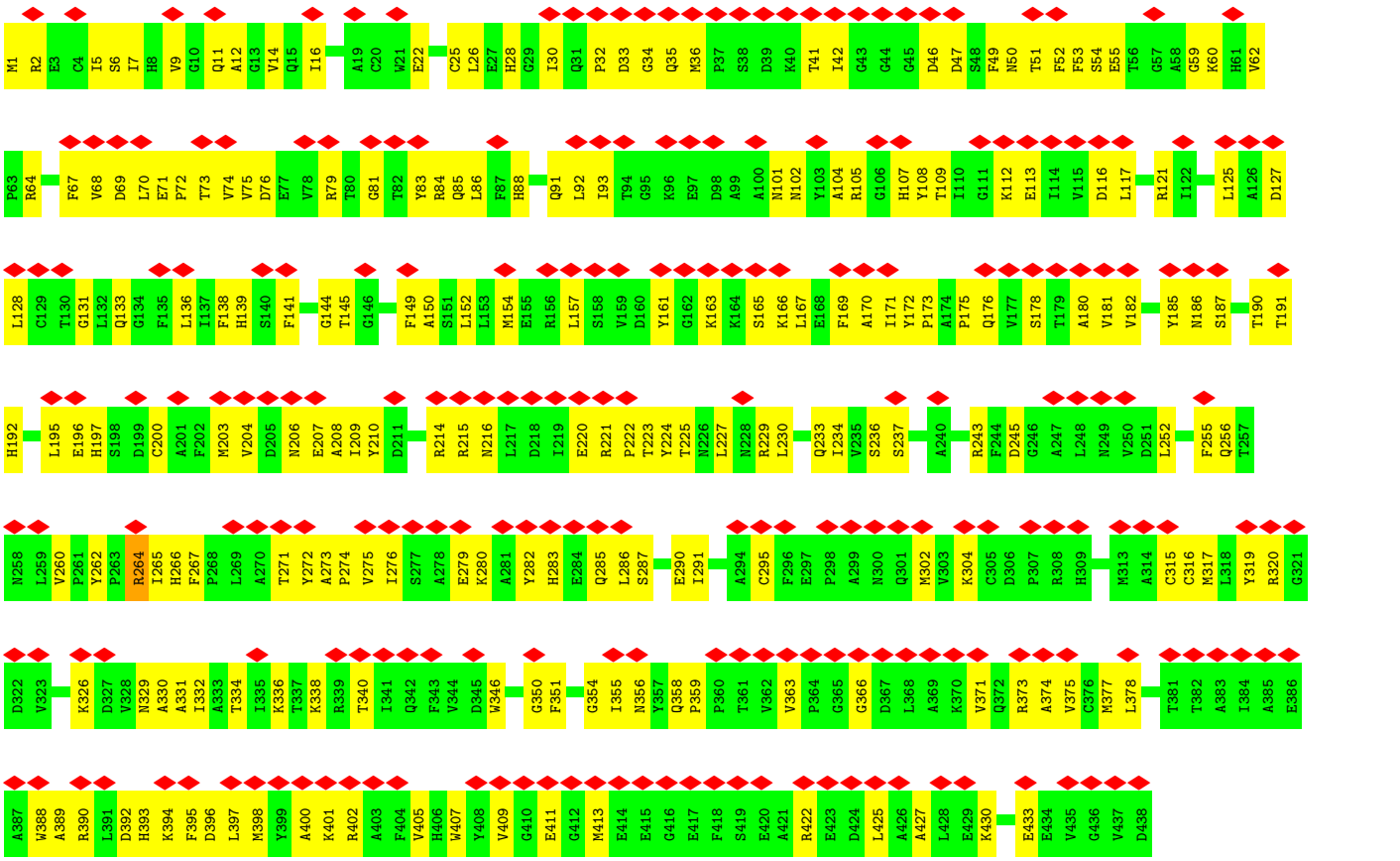




• Molecule 4: Detyrosinated tubulin alpha-3 chain

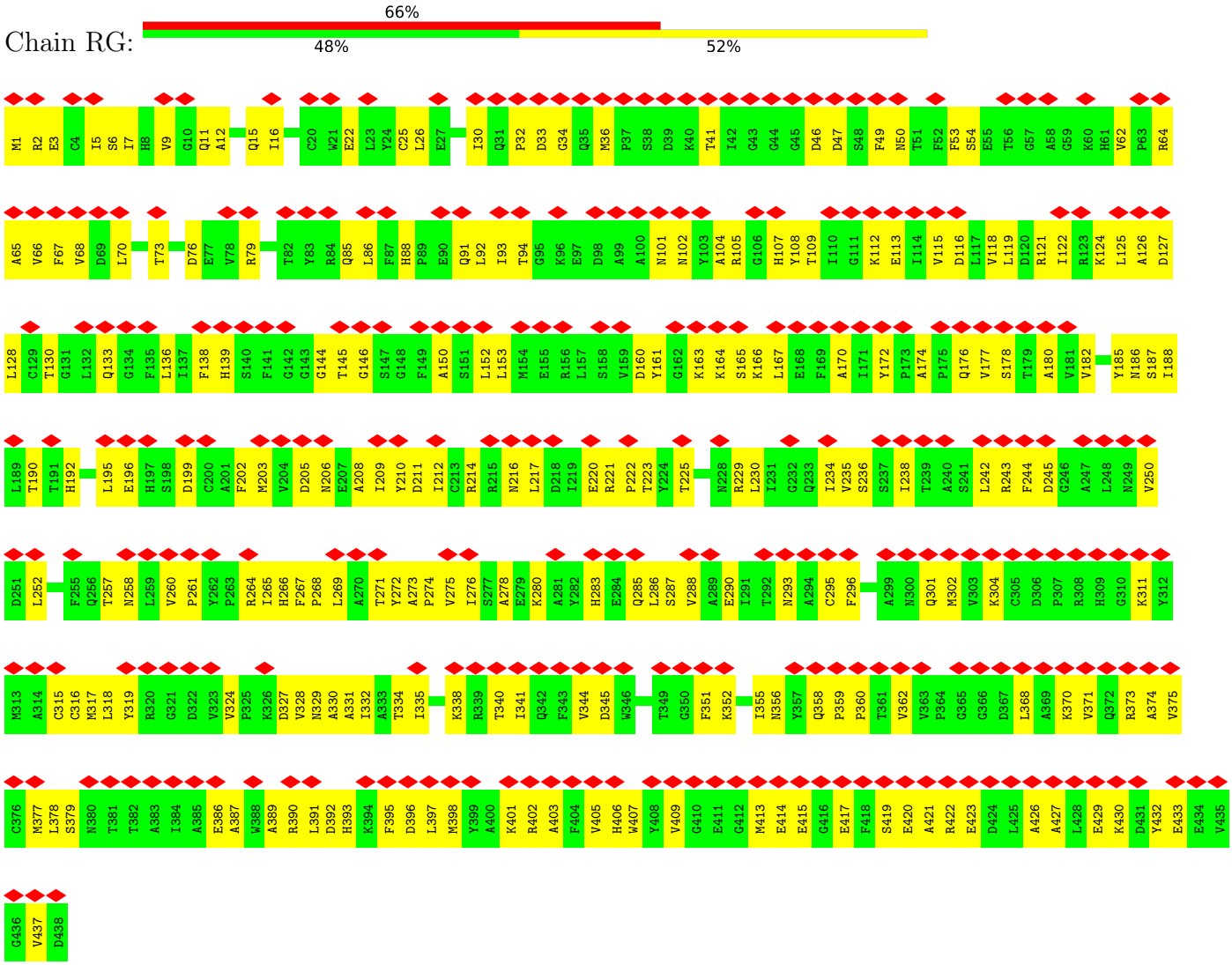
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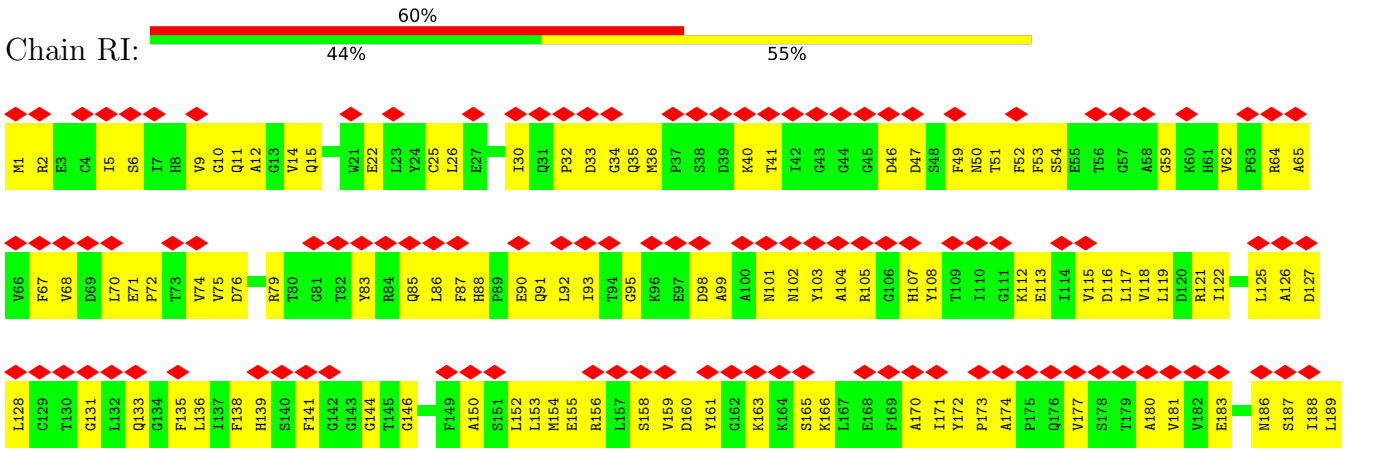
• Molecule 4: Detyrosinated tubulin alpha-3 chain

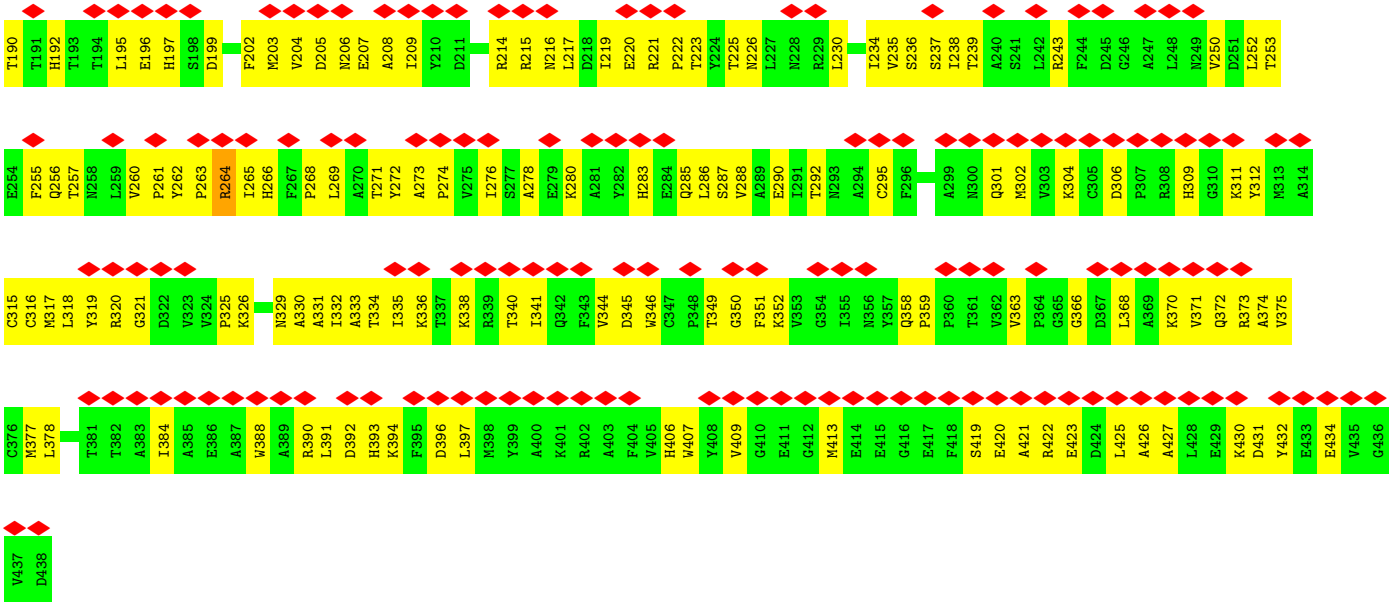
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• Molecule 4: Detyrosinated tubulin alpha-3 chain

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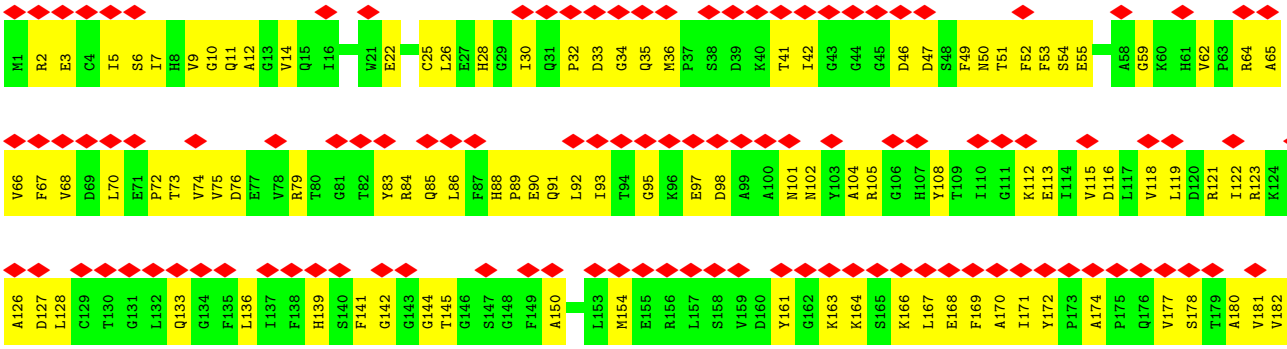




• Molecule 4: Detyrosinated tubulin alpha-3 chain

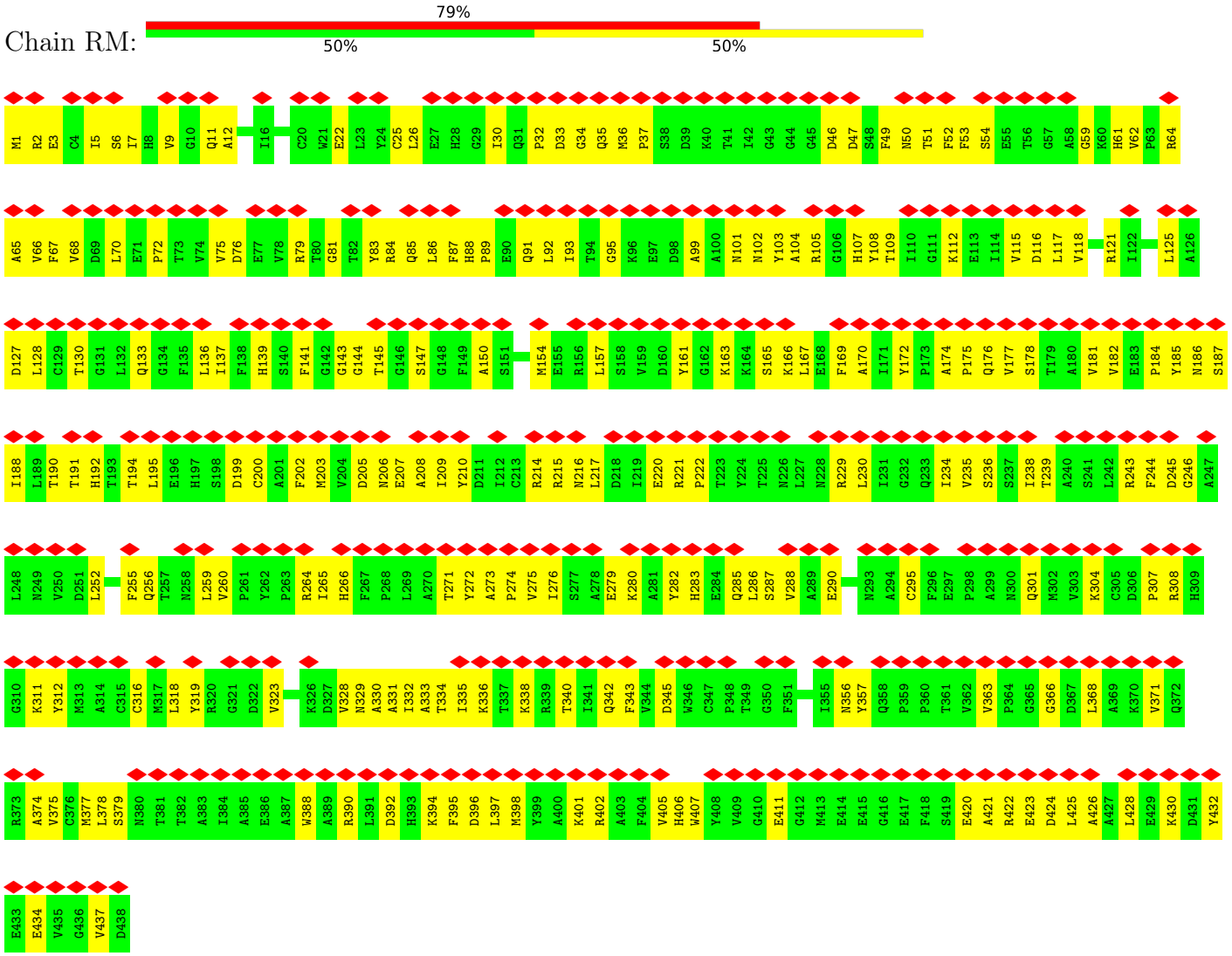
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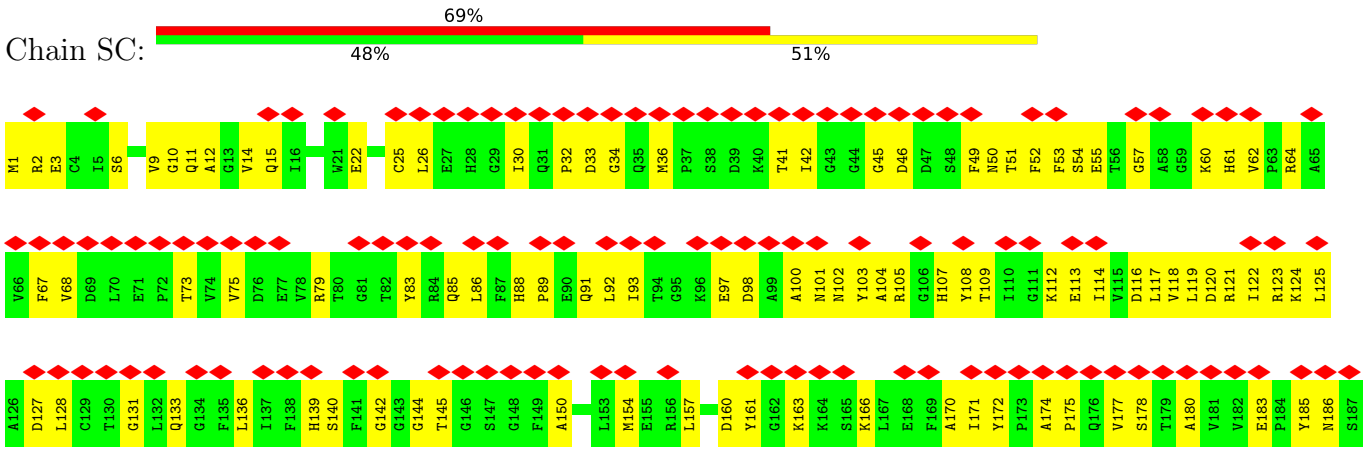
• Molecule 4: Detyrosinated tubulin alpha-3 chain

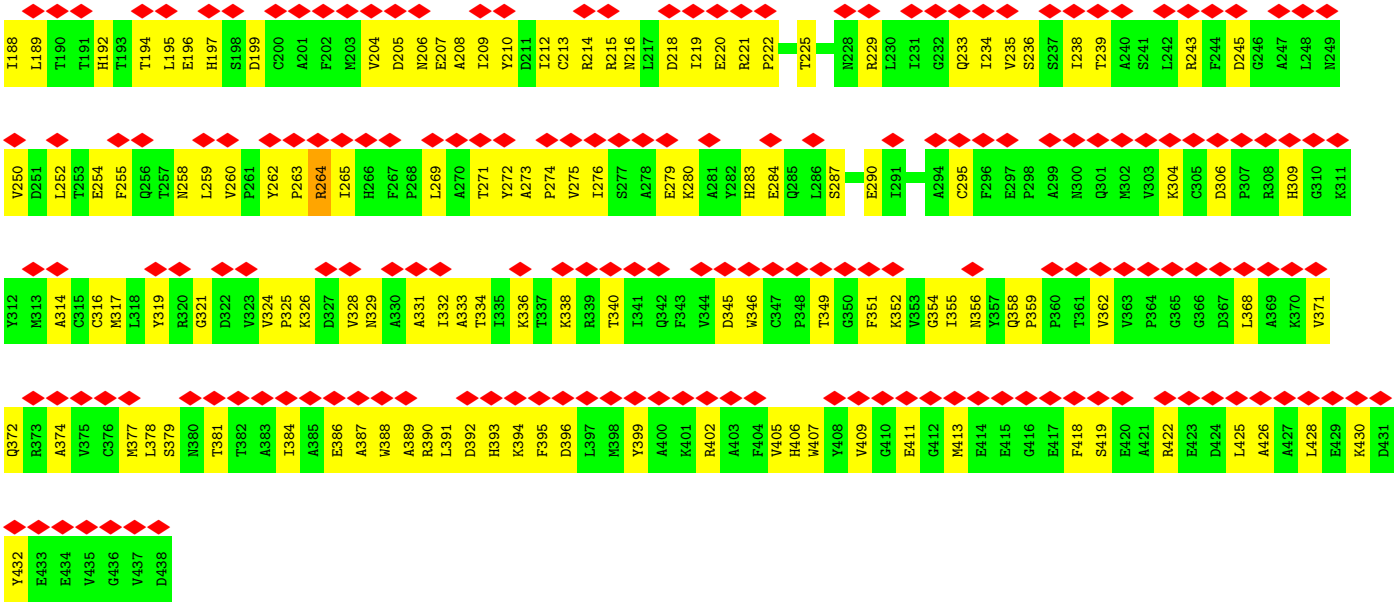
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• Molecule 4: Detyrosinated tubulin alpha-3 chain

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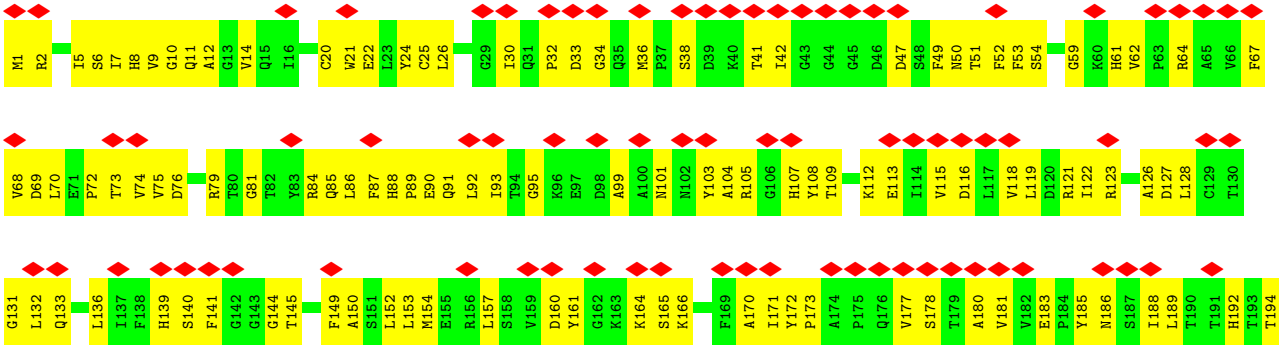




• Molecule 4: Detyrosinated tubulin alpha-3 chain

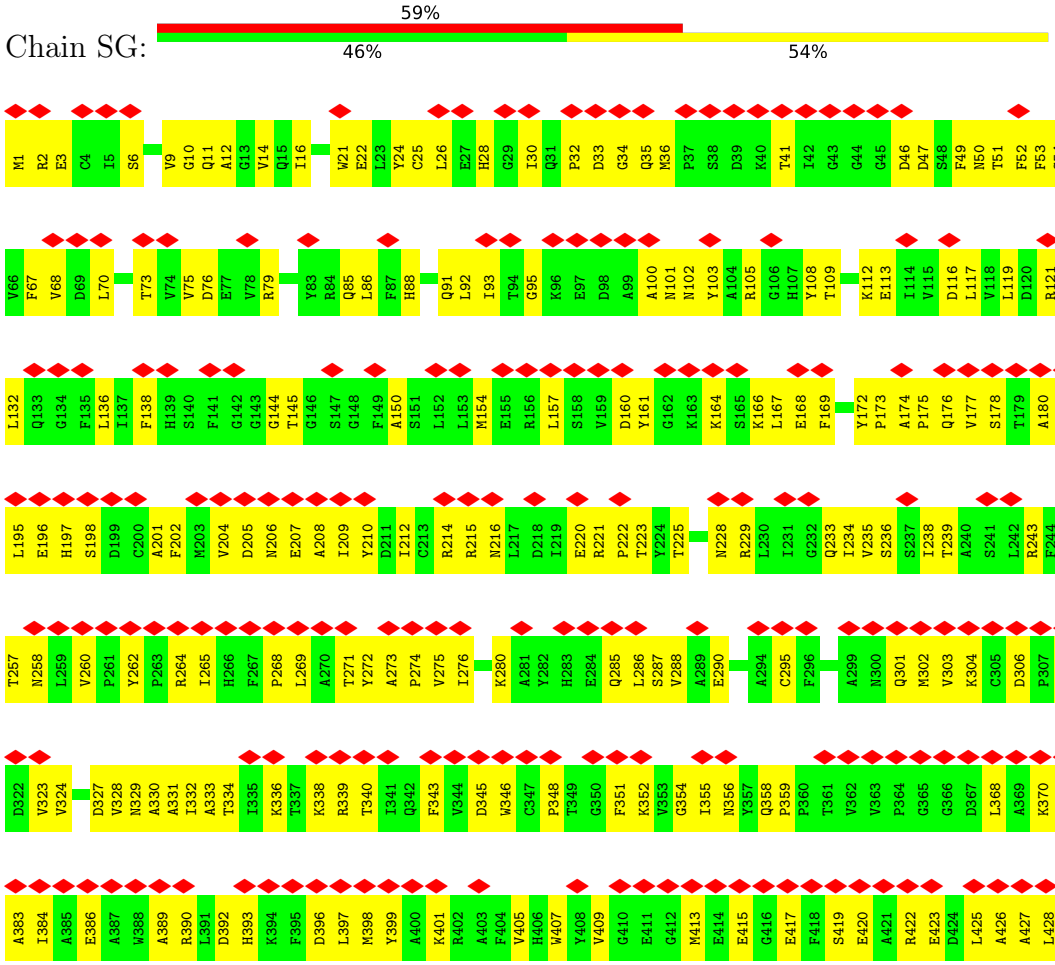
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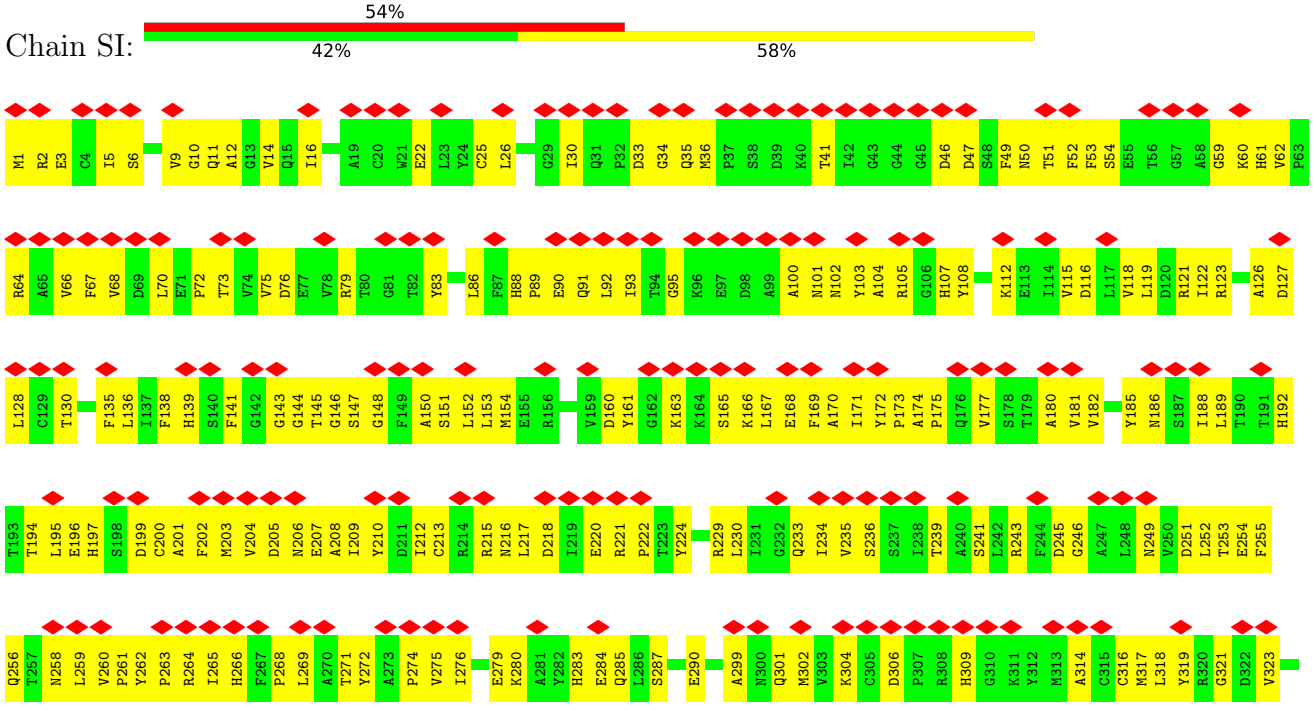
• Molecule 4: Detyrosinated tubulin alpha-3 chain

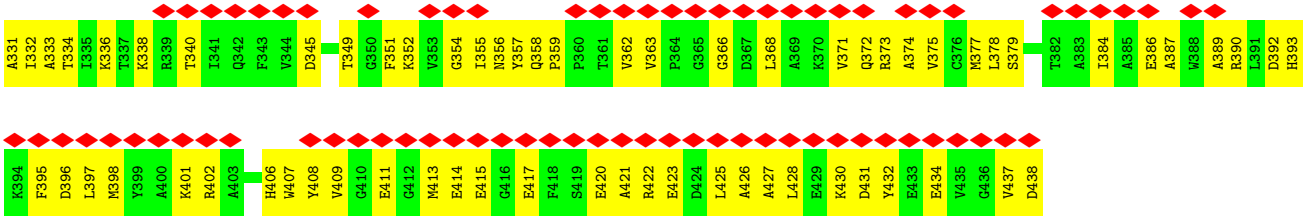
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• Molecule 4: Detyrosinated tubulin alpha-3 chain

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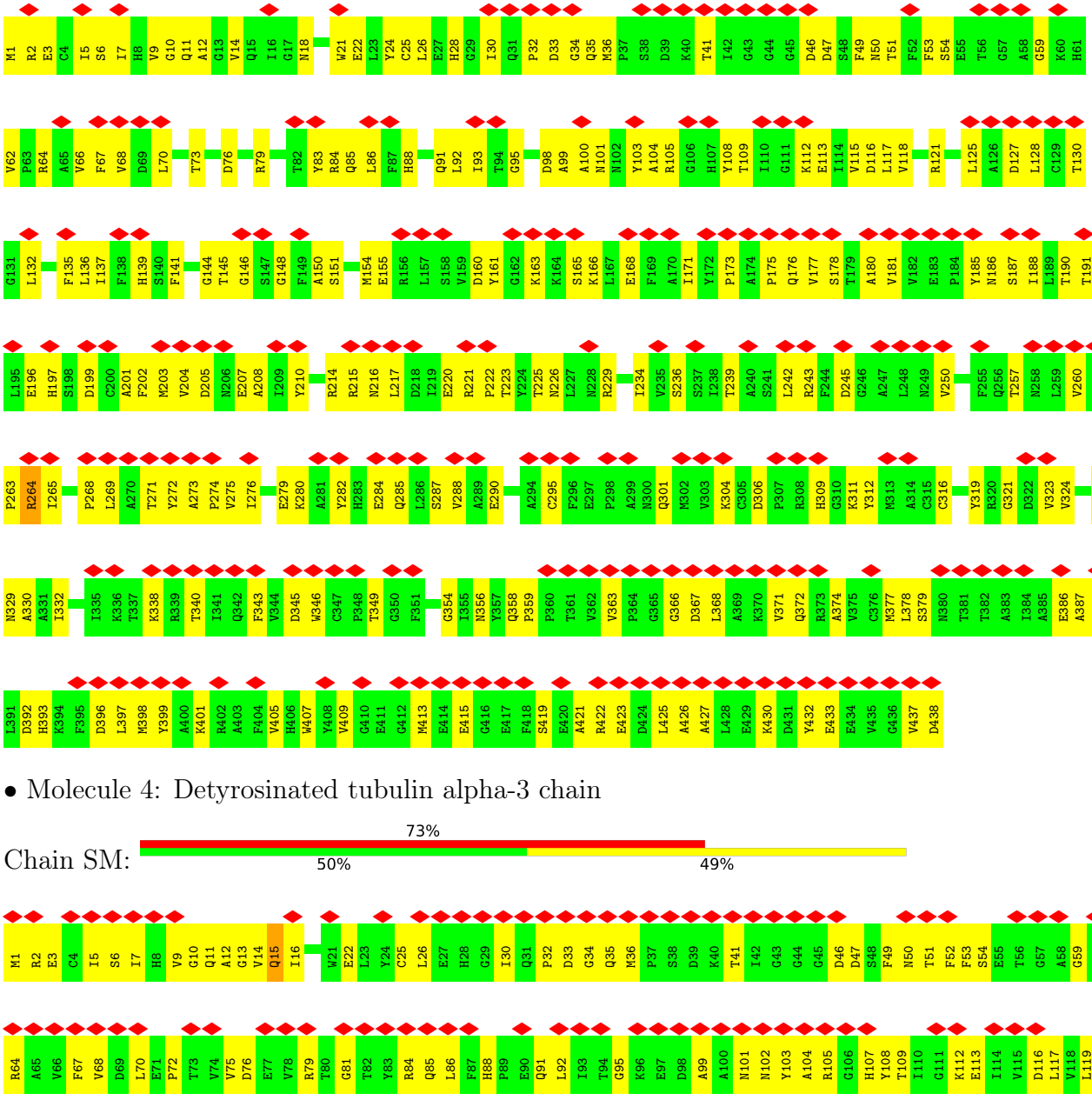




• Molecule 4: Detyrosinated tubulin alpha-3 chain

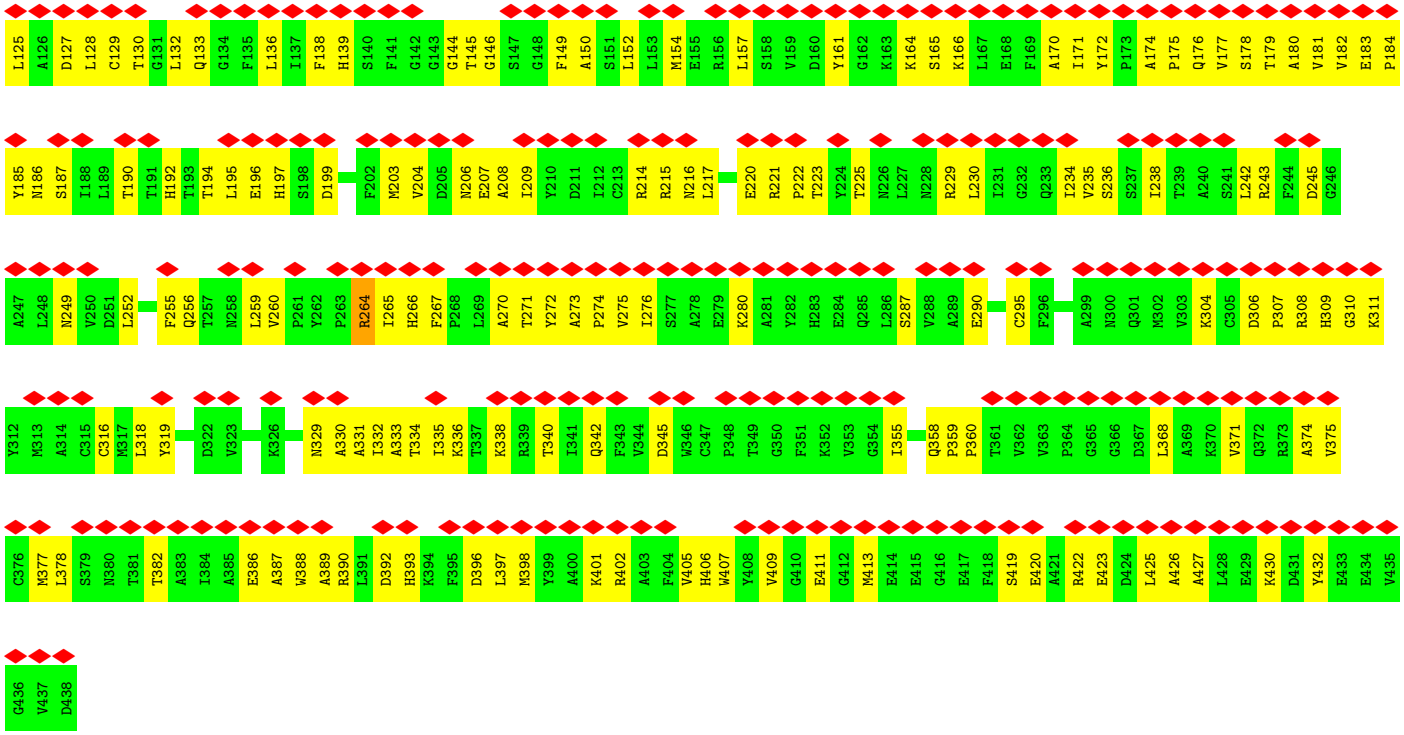
Chain SK:





• Molecule 4: Detyrosinated tubulin alpha-3 chain

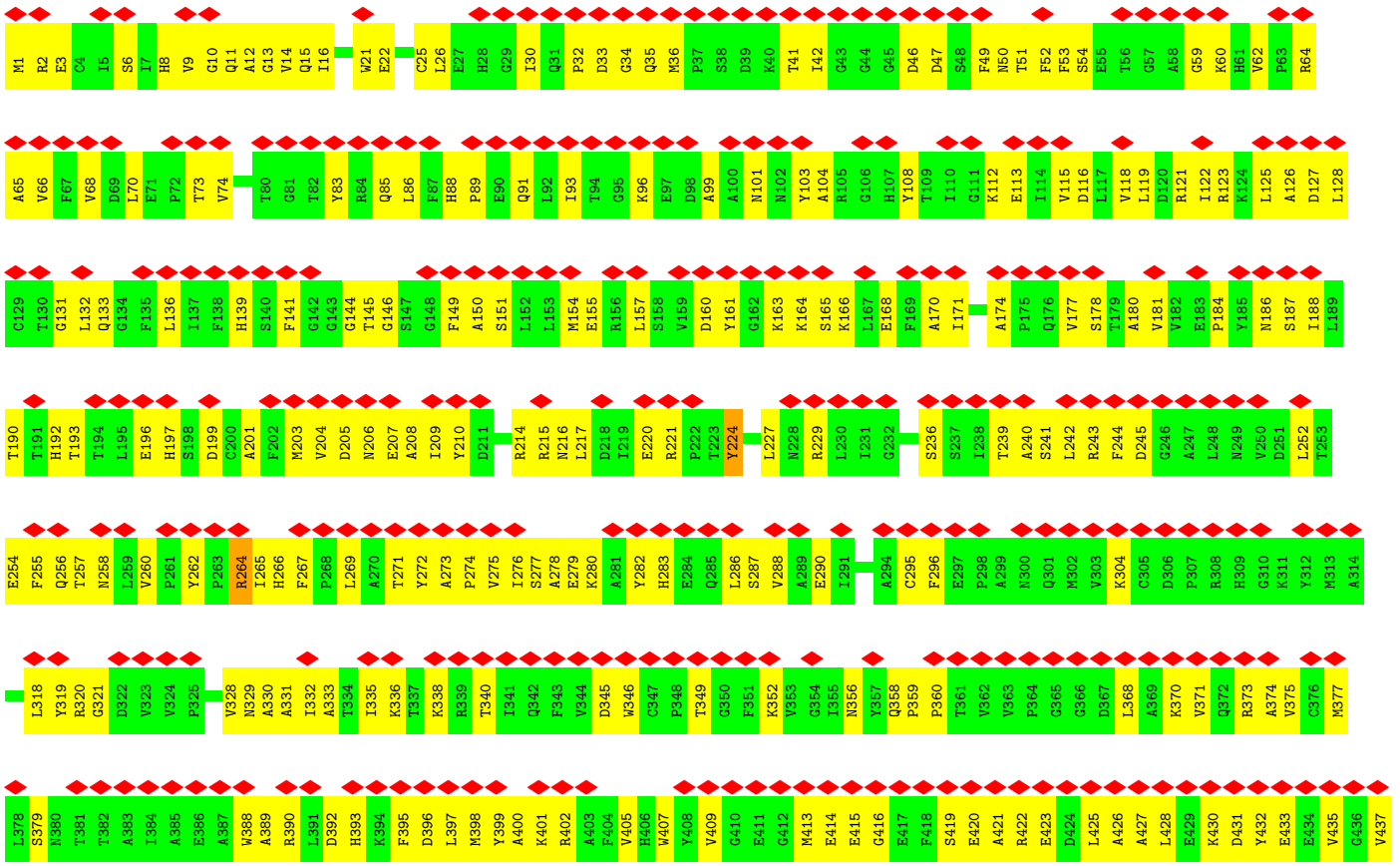
Chain SM:



• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain TC:







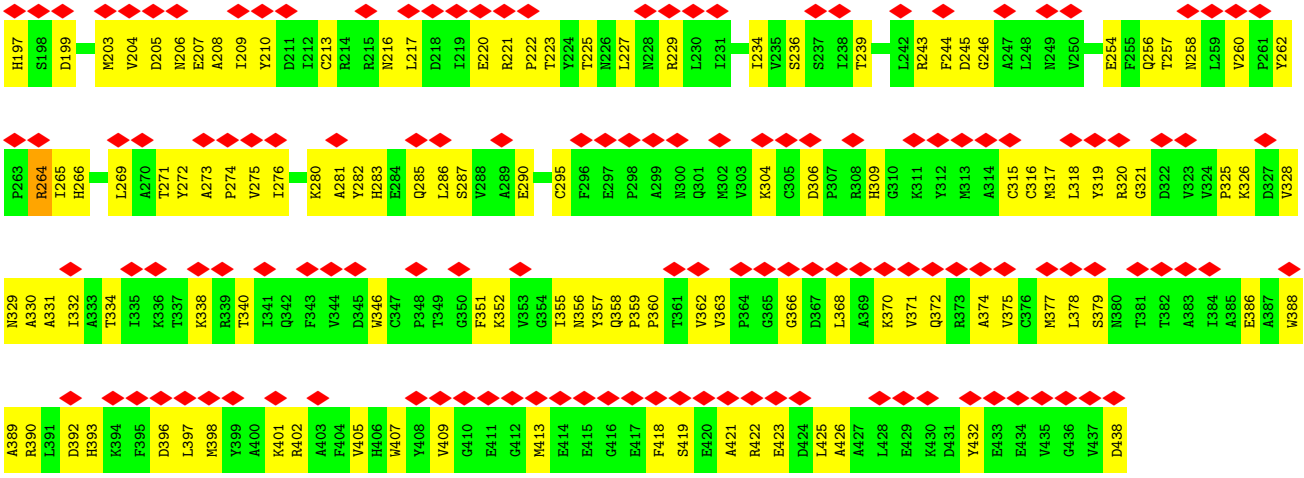
• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain TE:



• Molecule 4: Detyrosinated tubulin alpha-3 chain

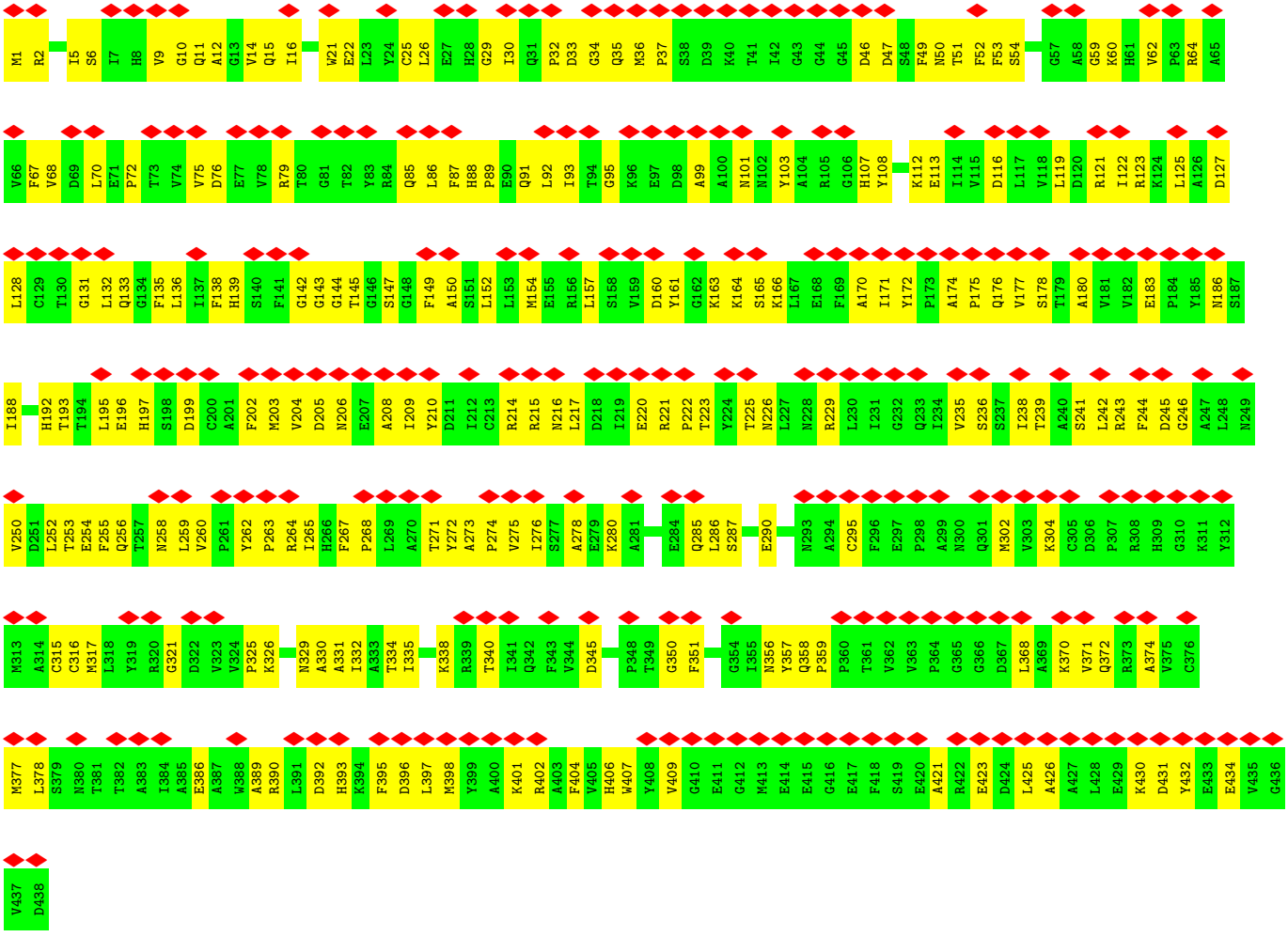
Chain TG:



• Molecule 4: Detyrosinated tubulin alpha-3 chain

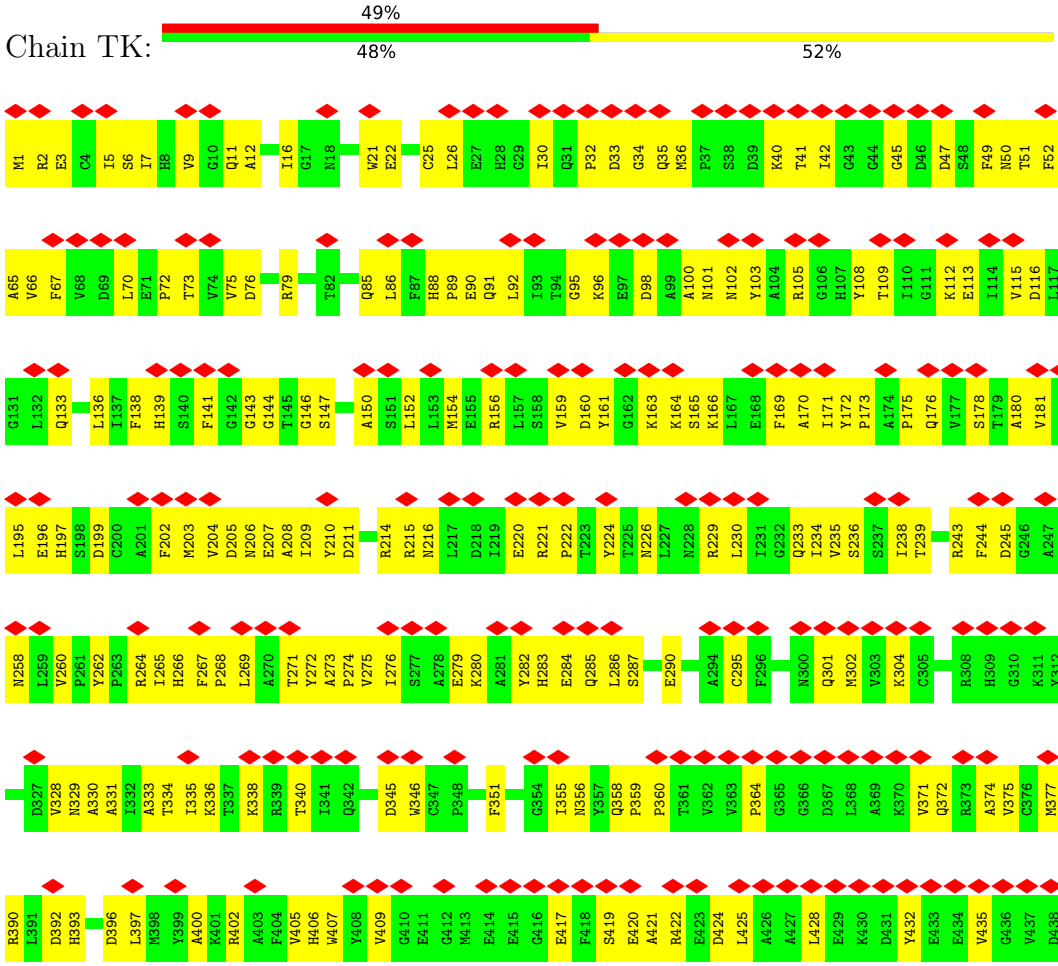
Chain TI:





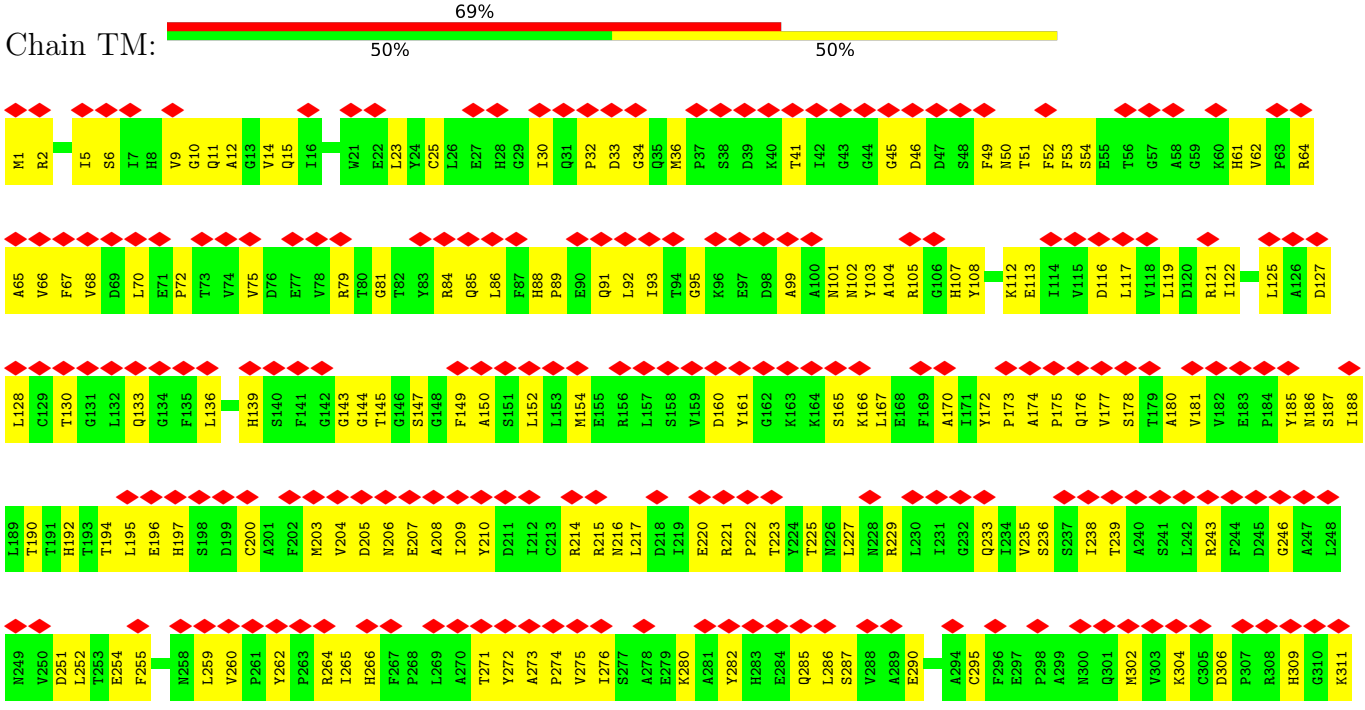
• Molecule 4: Detyrosinated tubulin alpha-3 chain

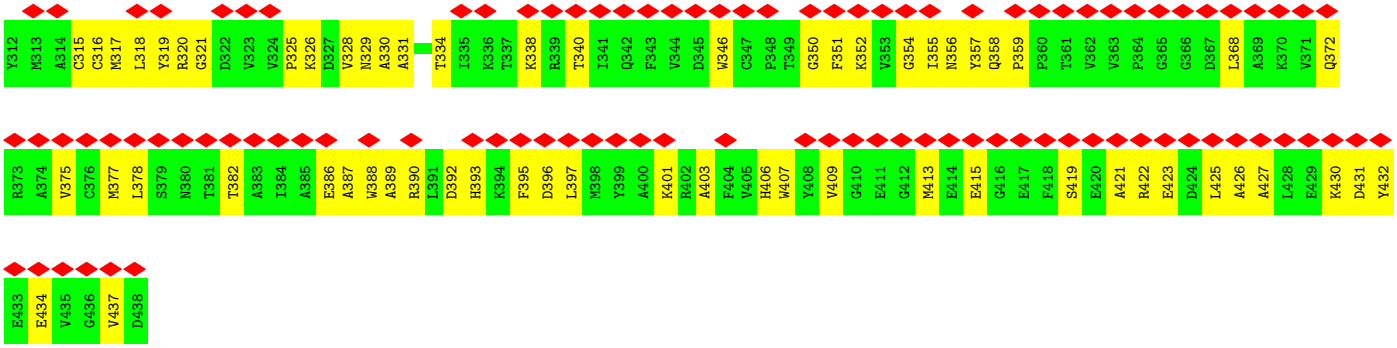
Chain TK:



• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain TM:

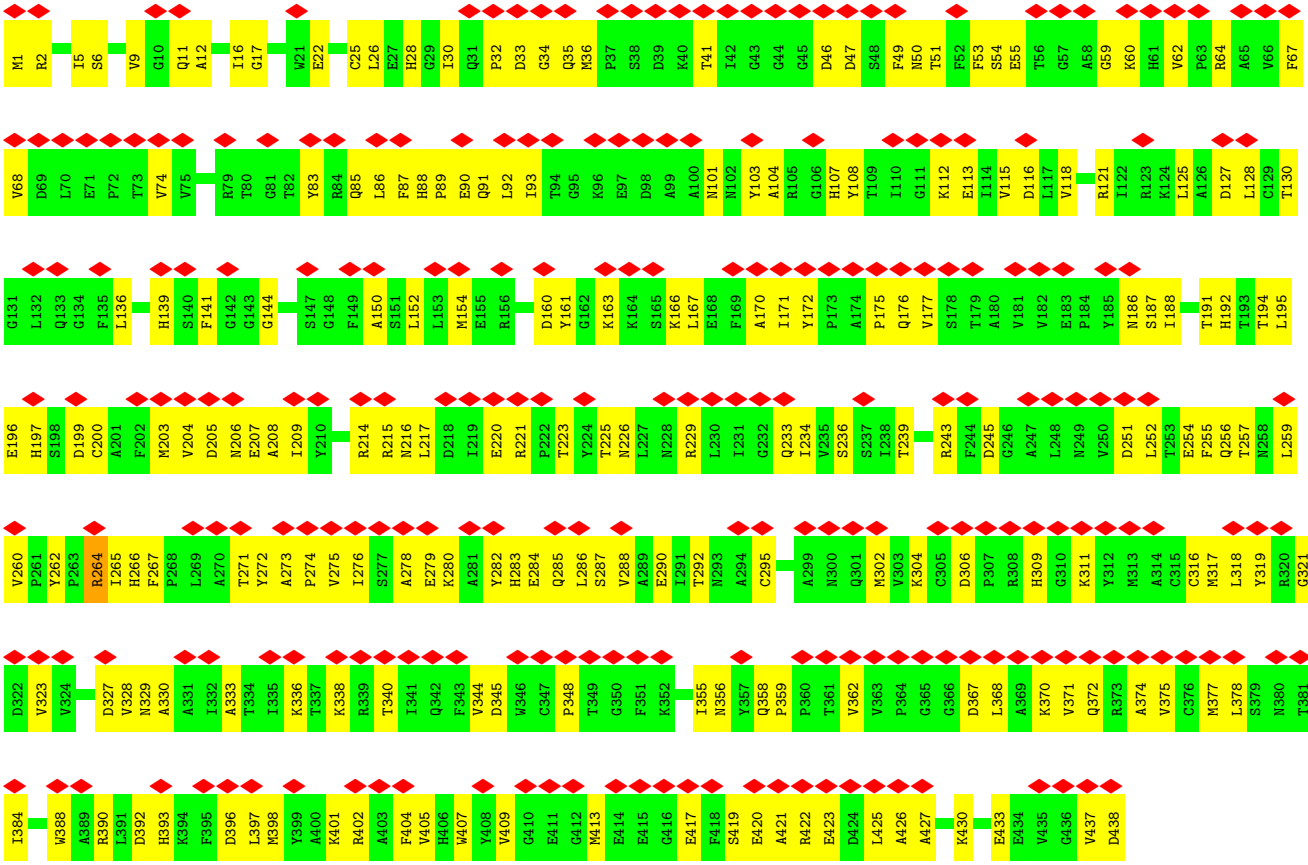




• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain UA:

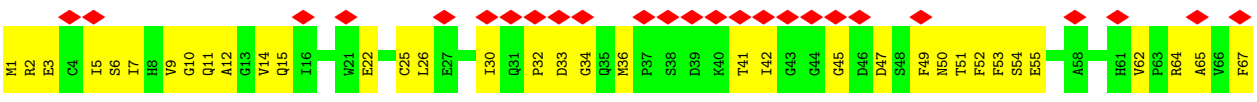


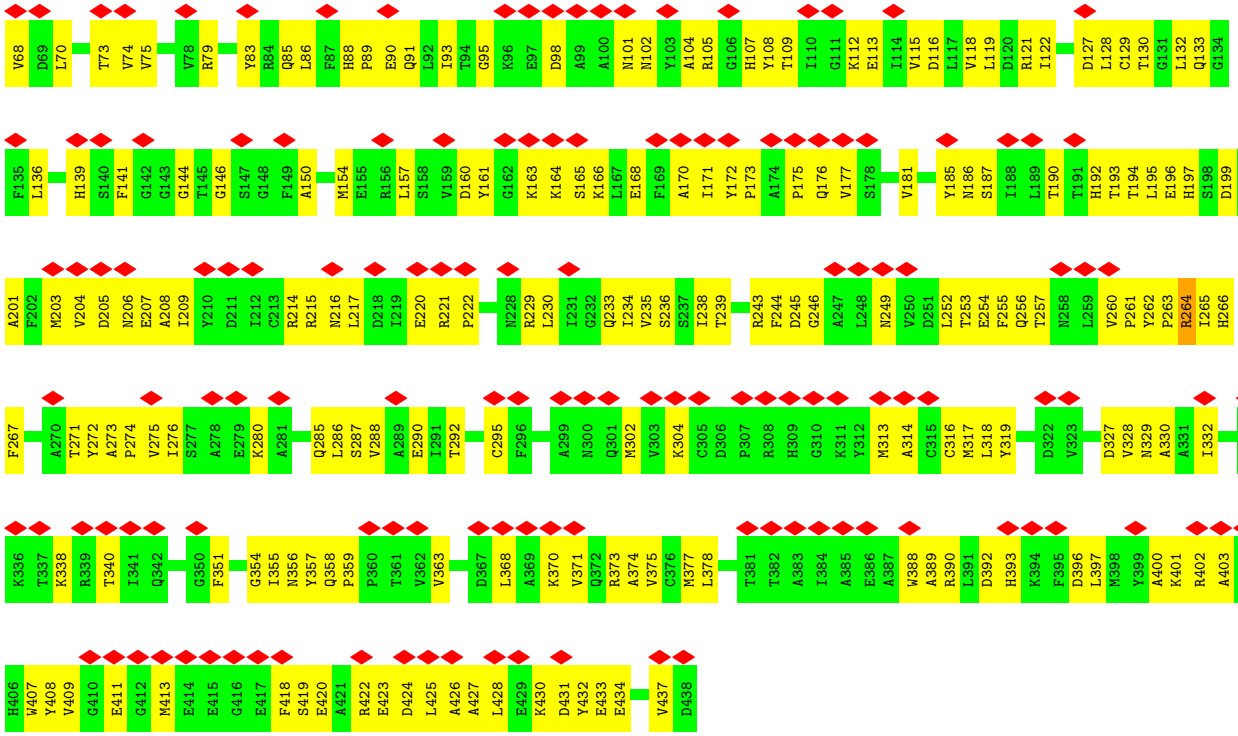


• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain UC:



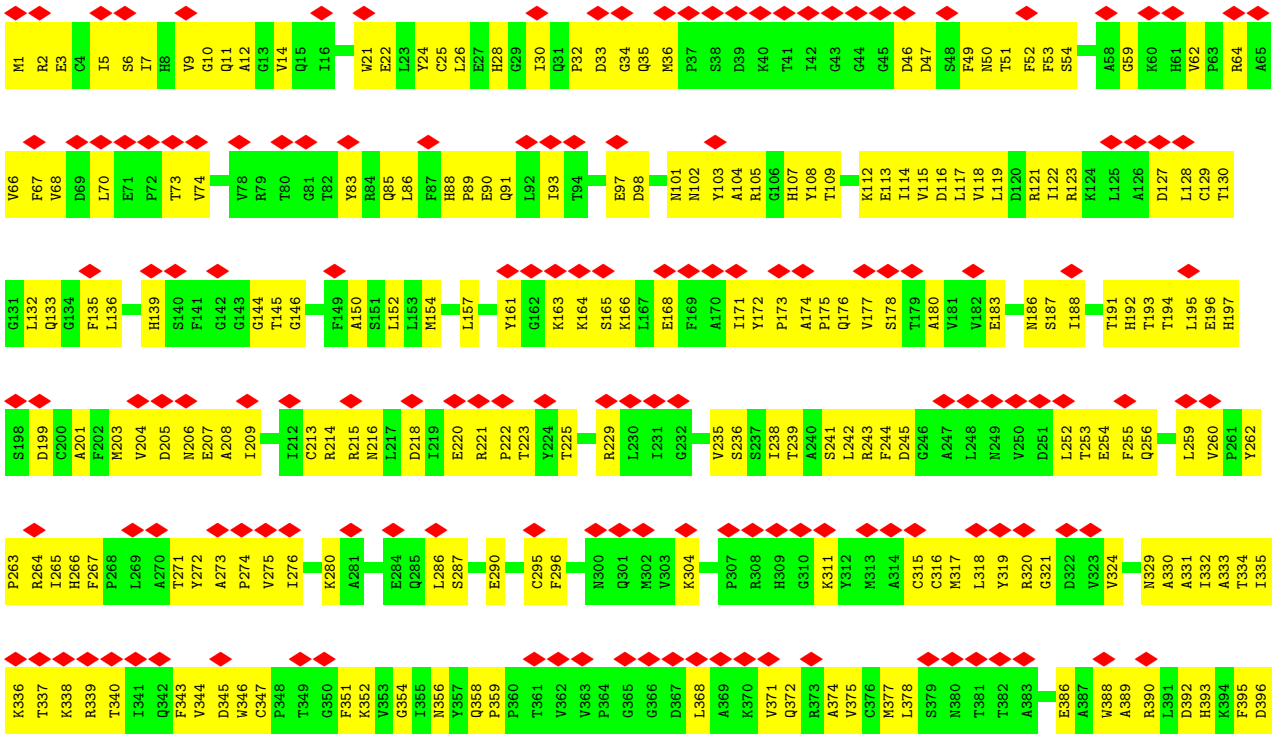




• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain UE:





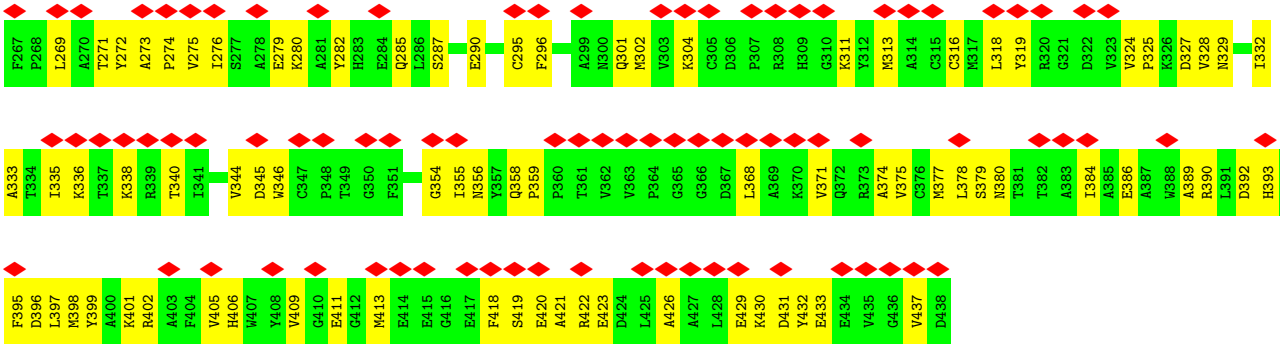
• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain UG:



• Molecule 4: Detyrosinated tubulin alpha-3 chain

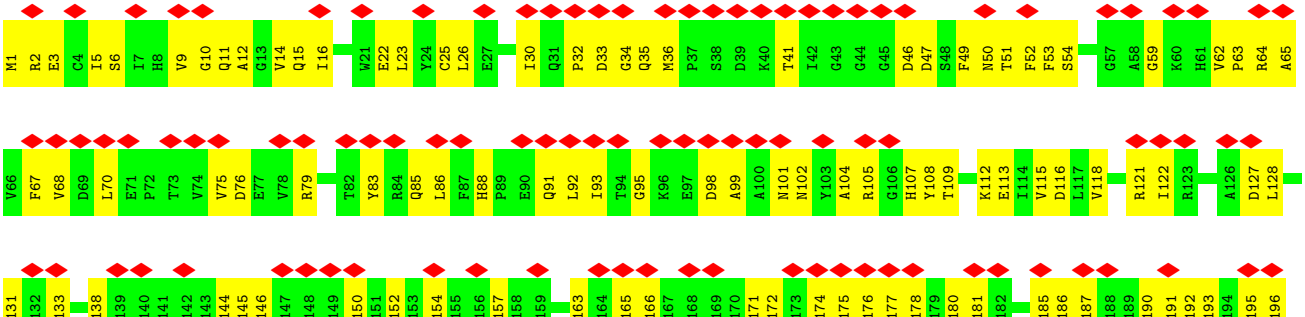
Chain UI:

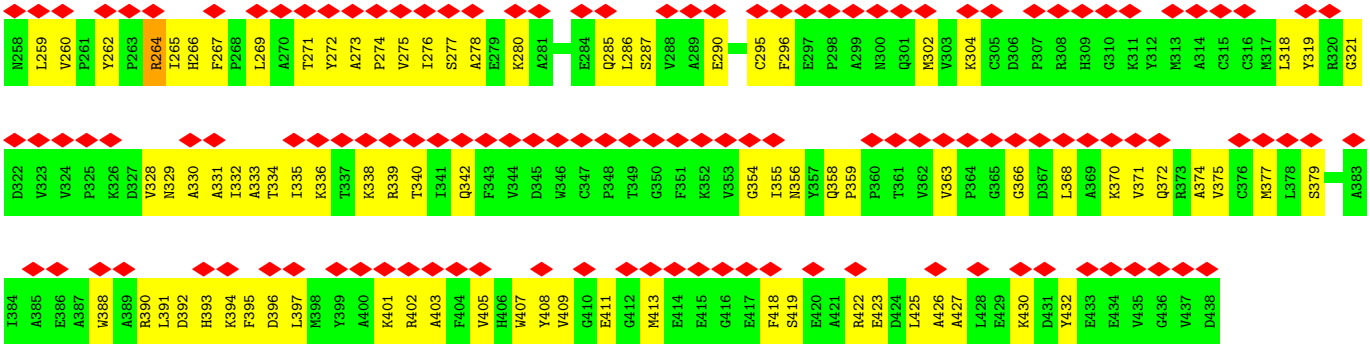


• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain UK:

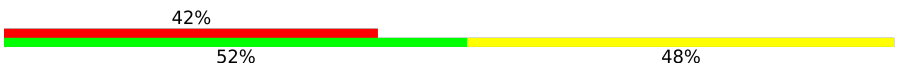


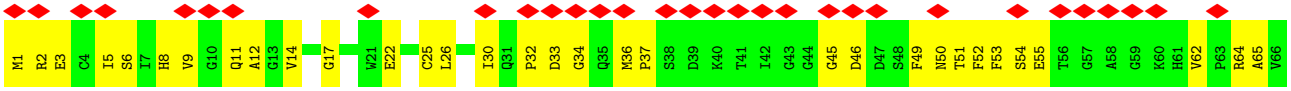


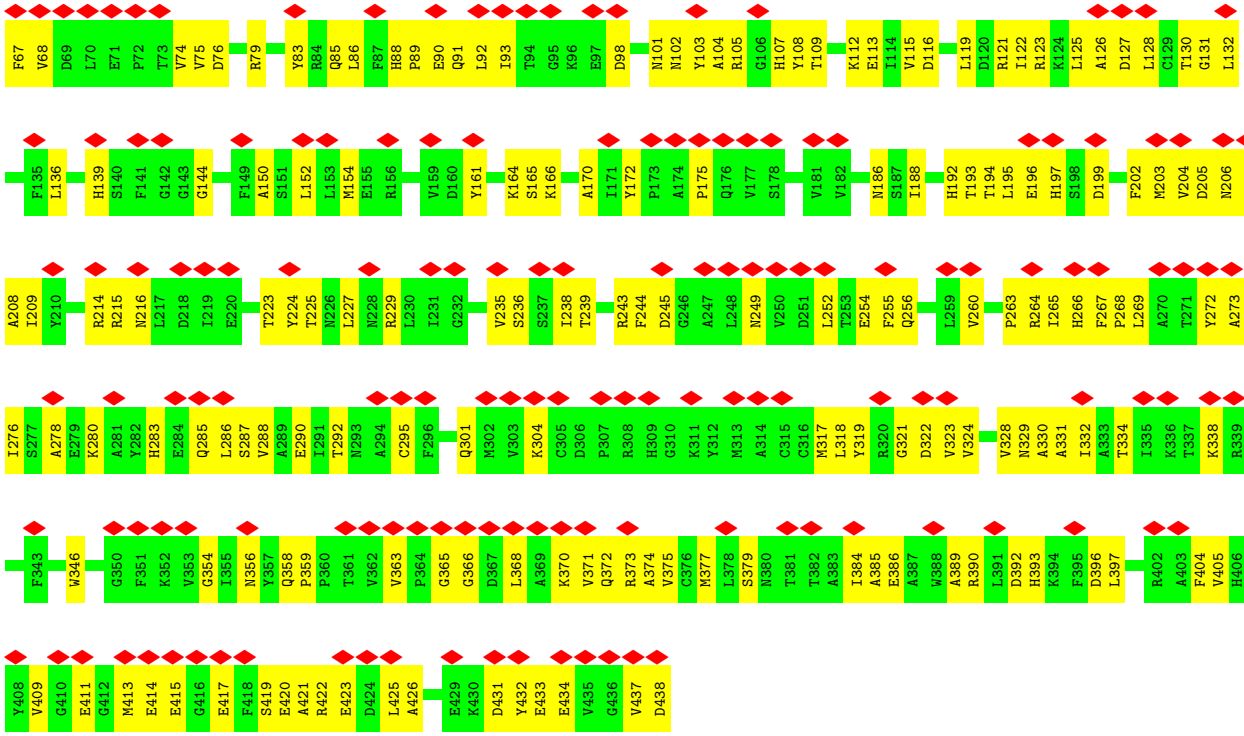


• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain VA:



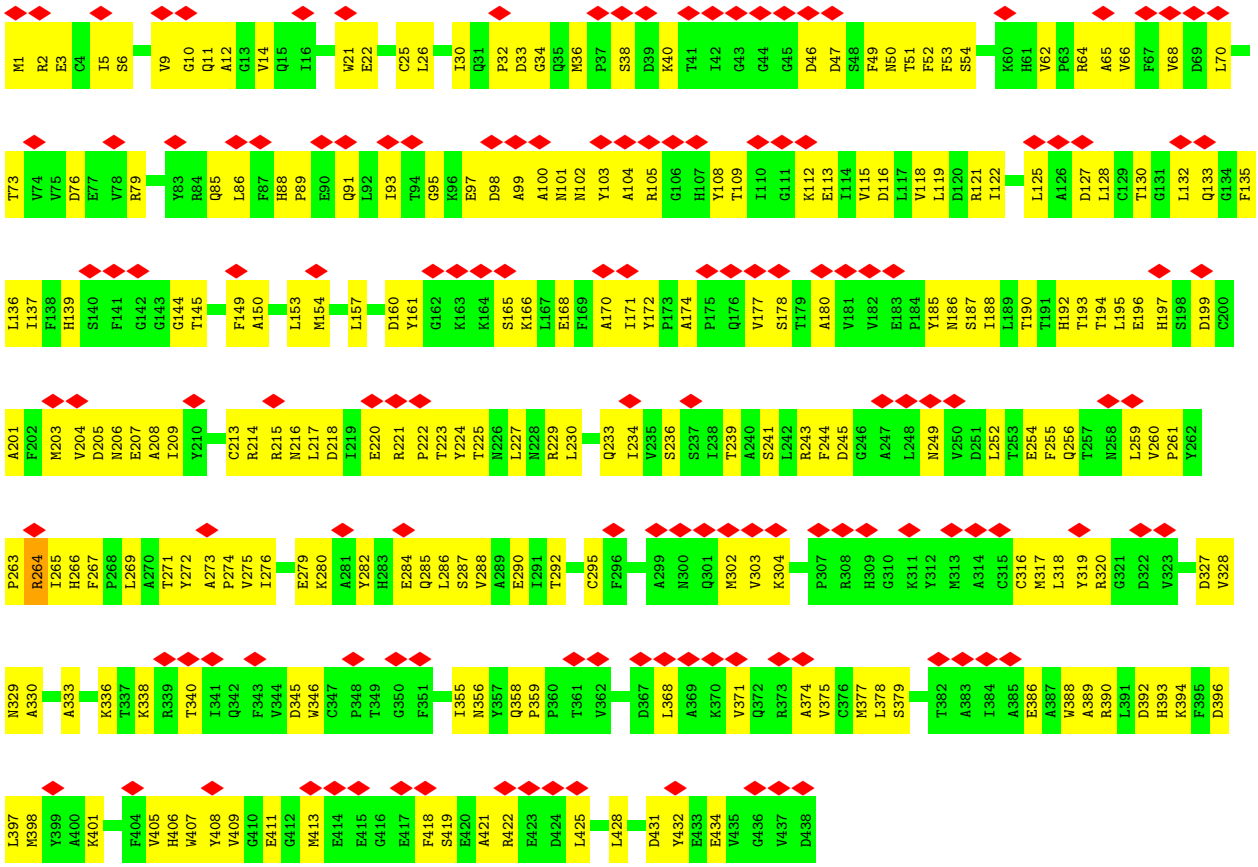




• Molecule 4: Detyrosinated tubulin alpha-3 chain

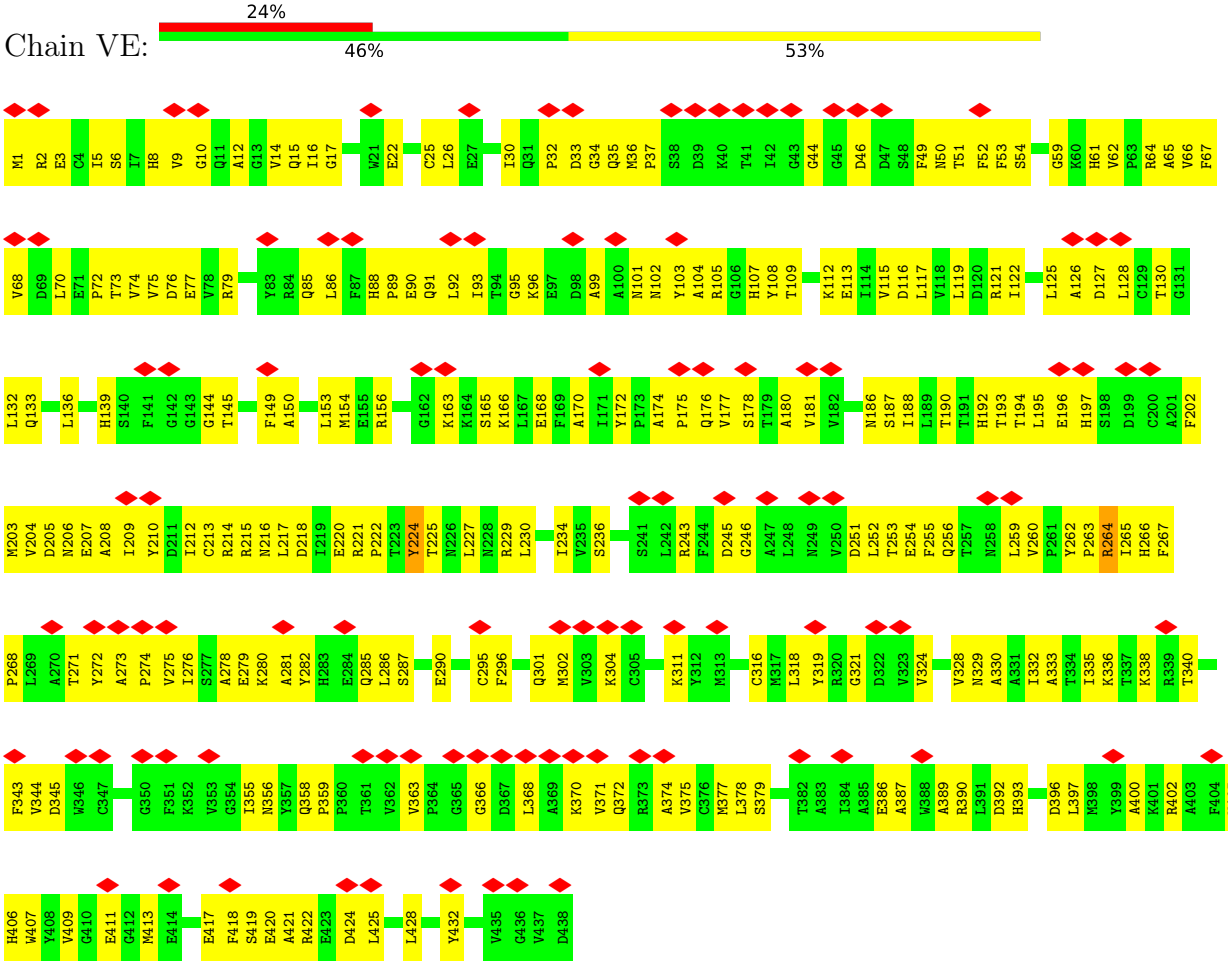
Chain VC:





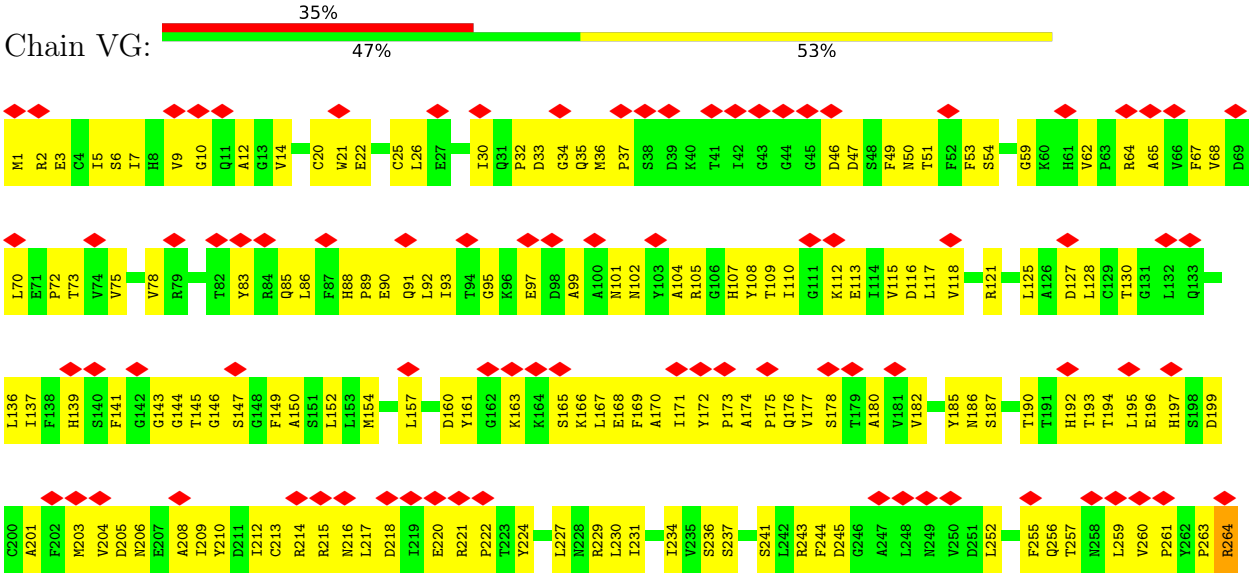
• Molecule 4: Detyrosinated tubulin alpha-3 chain

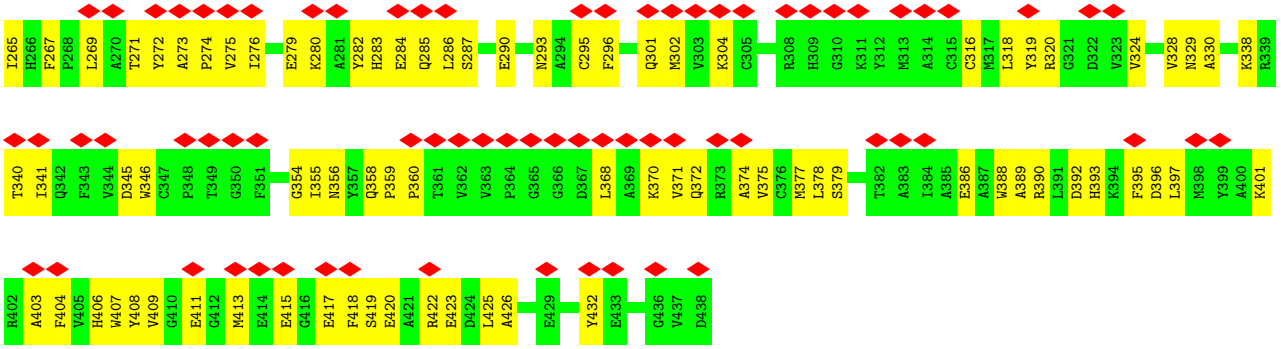
Chain VE:



• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain VG:

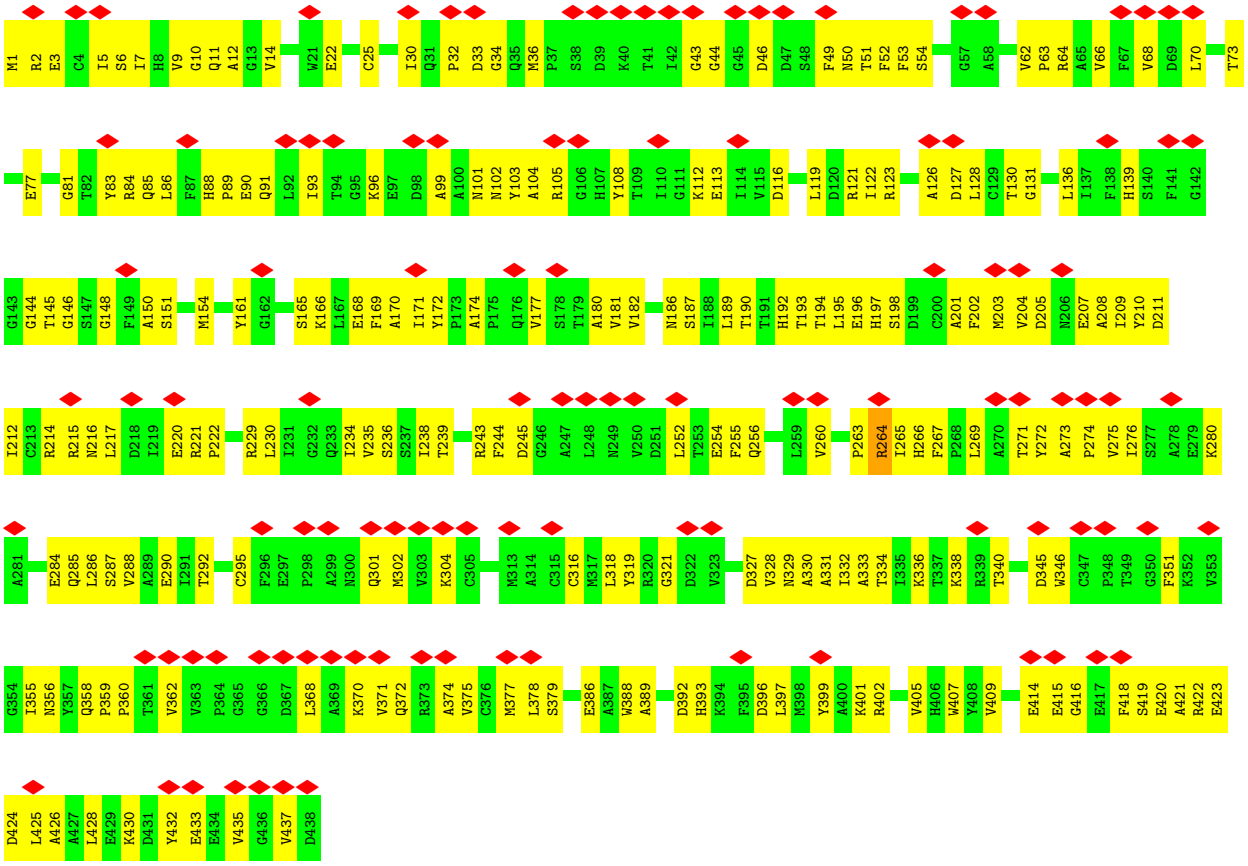




• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain VI:

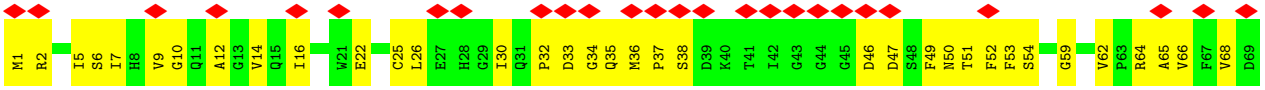


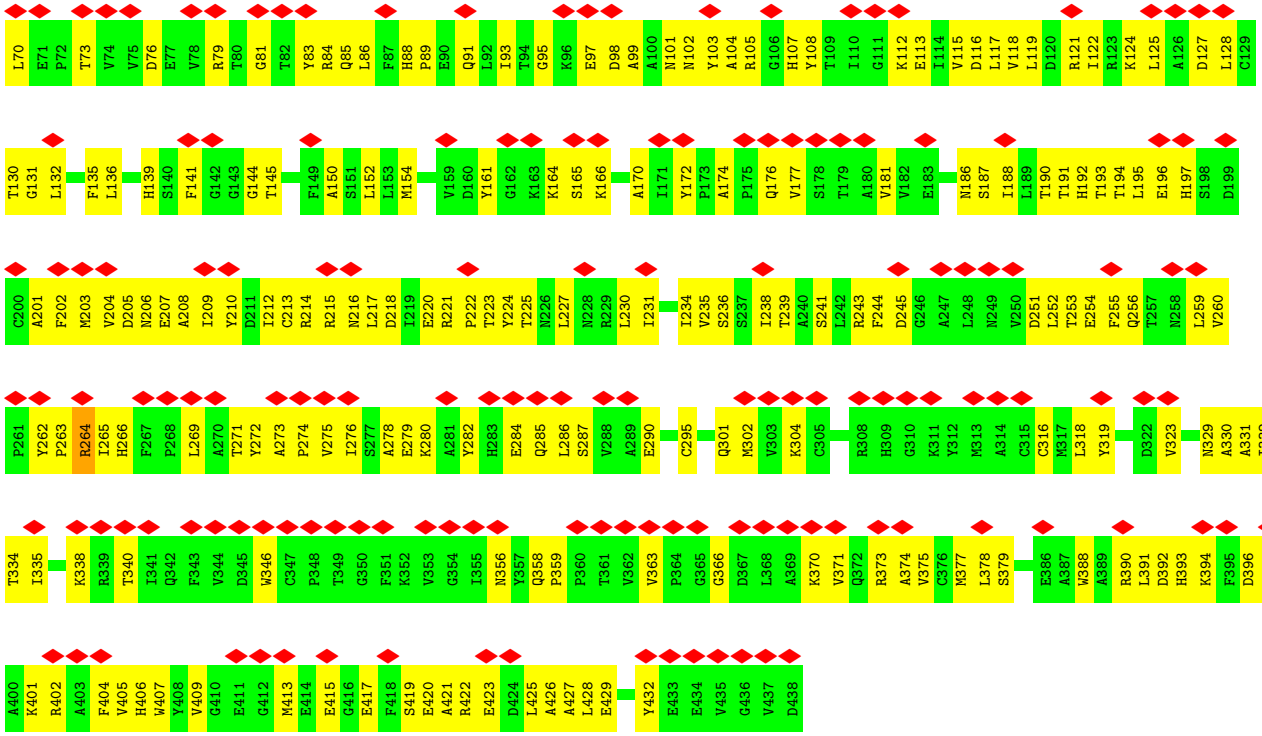


• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain VK:



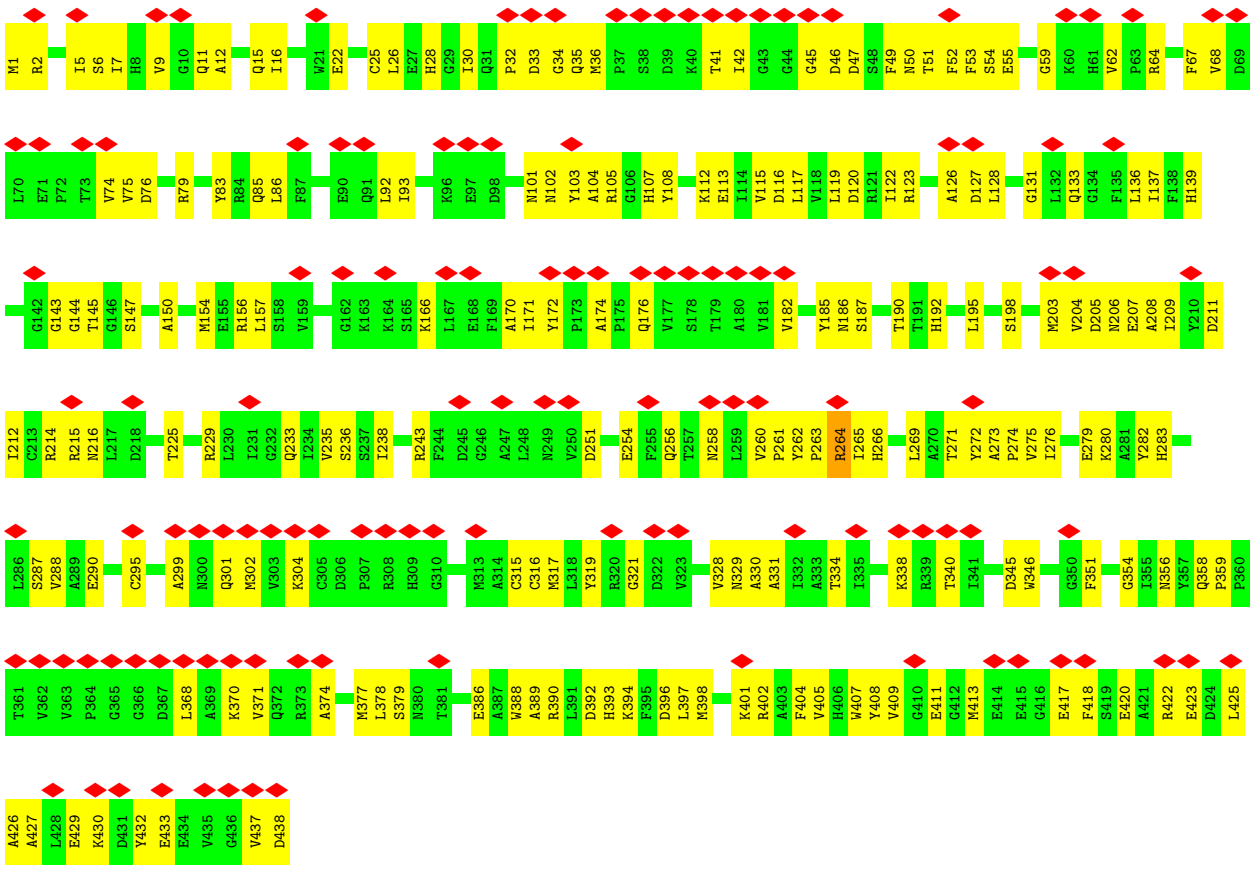




• Molecule 4: Detyrosinated tubulin alpha-3 chain

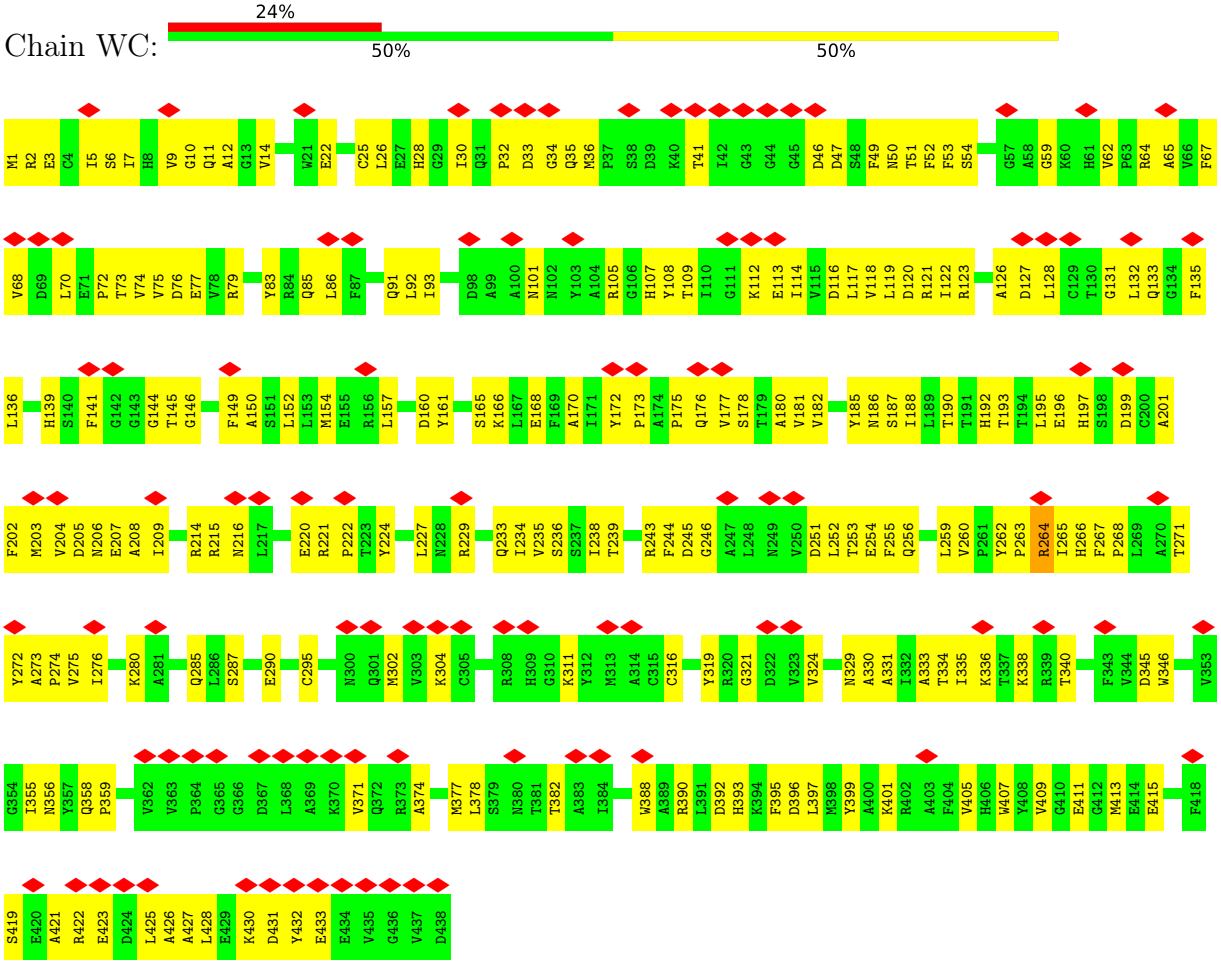
Chain WA:





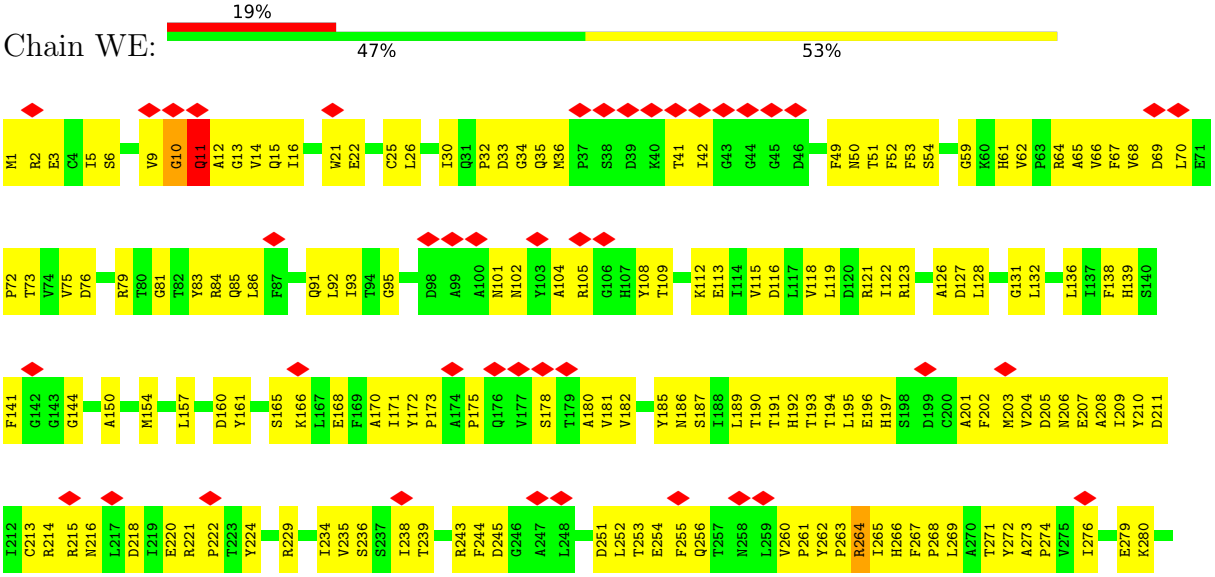
• Molecule 4: Detyrosinated tubulin alpha-3 chain

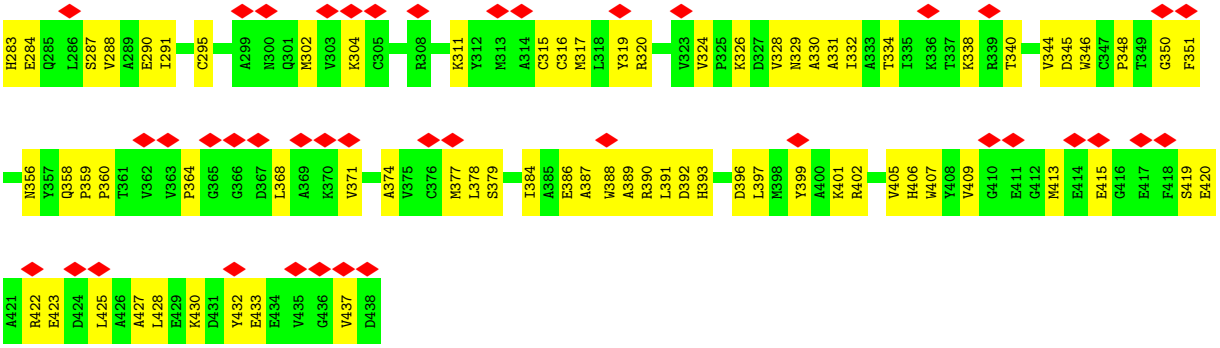
Chain WC:



• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain WE:

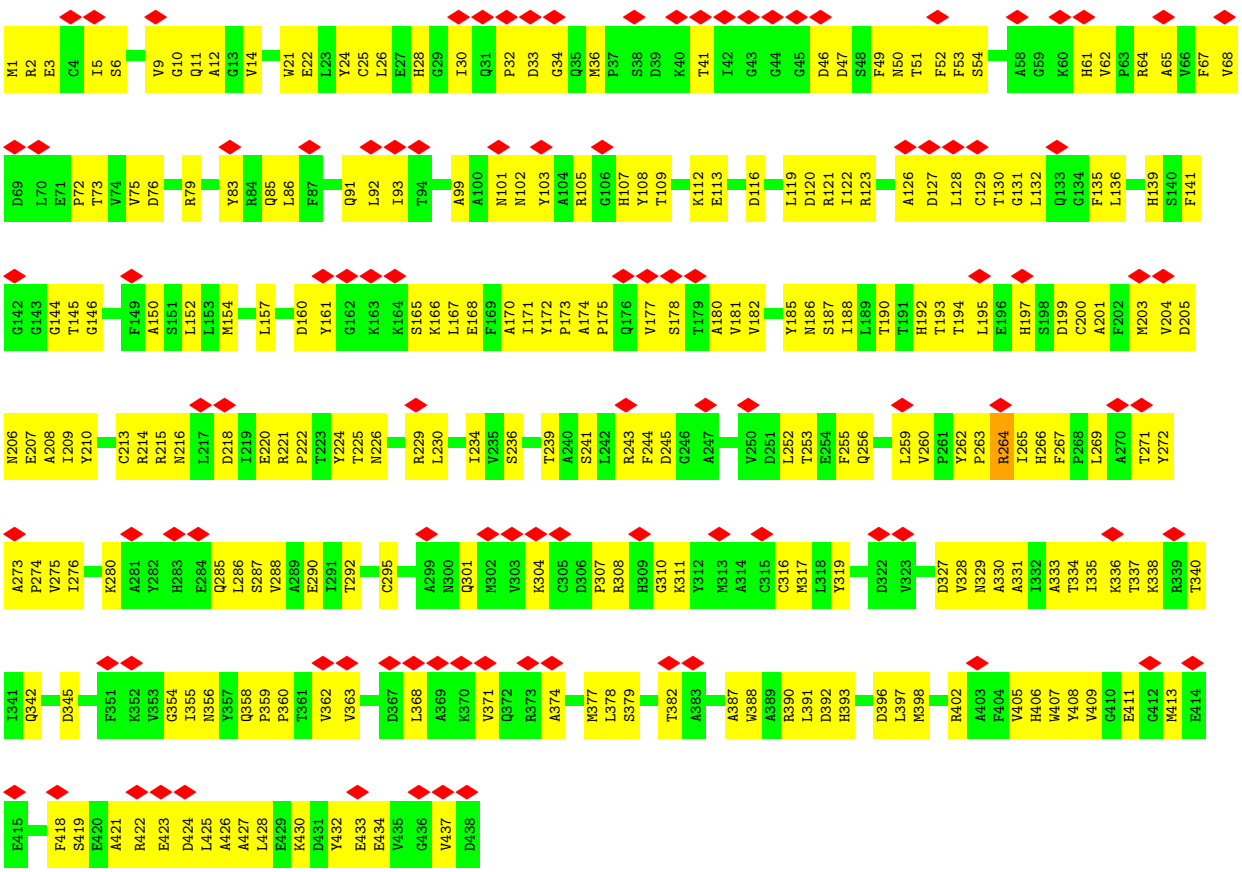




• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain WG:

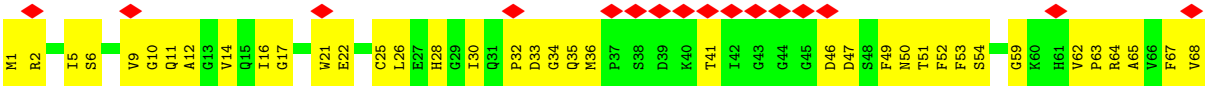


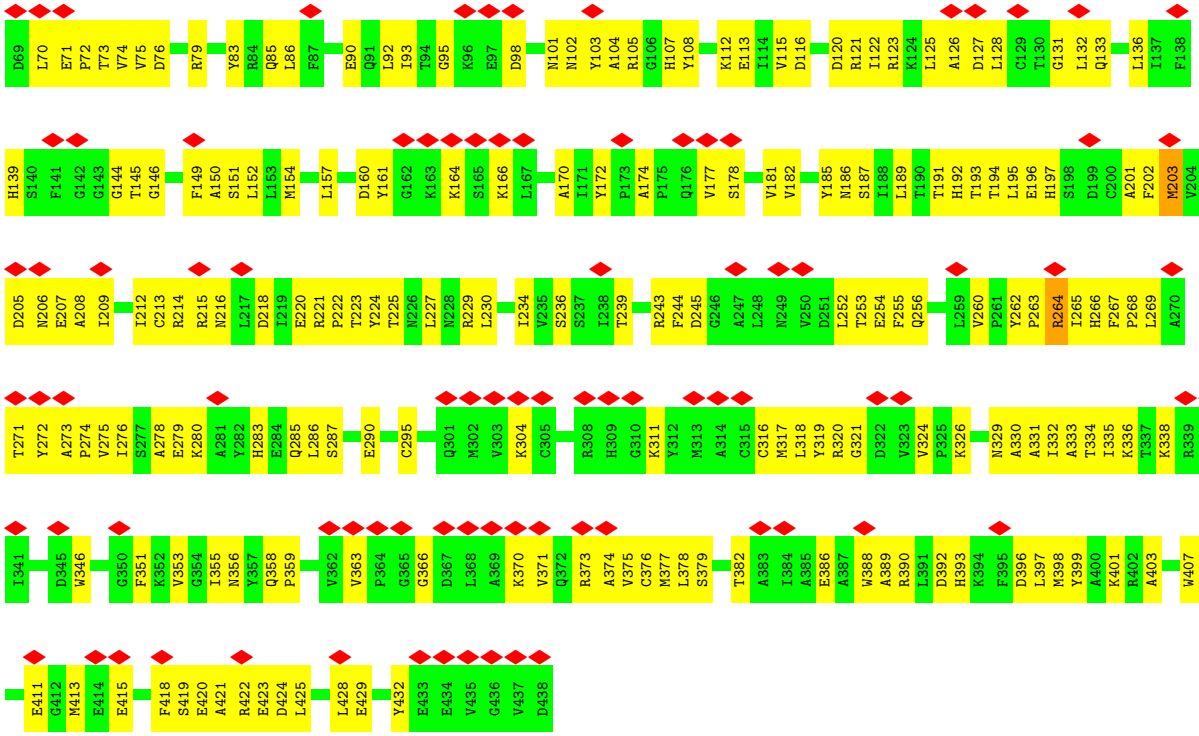


• Molecule 4: Detyrosinated tubulin alpha-3 chain

Chain WI:



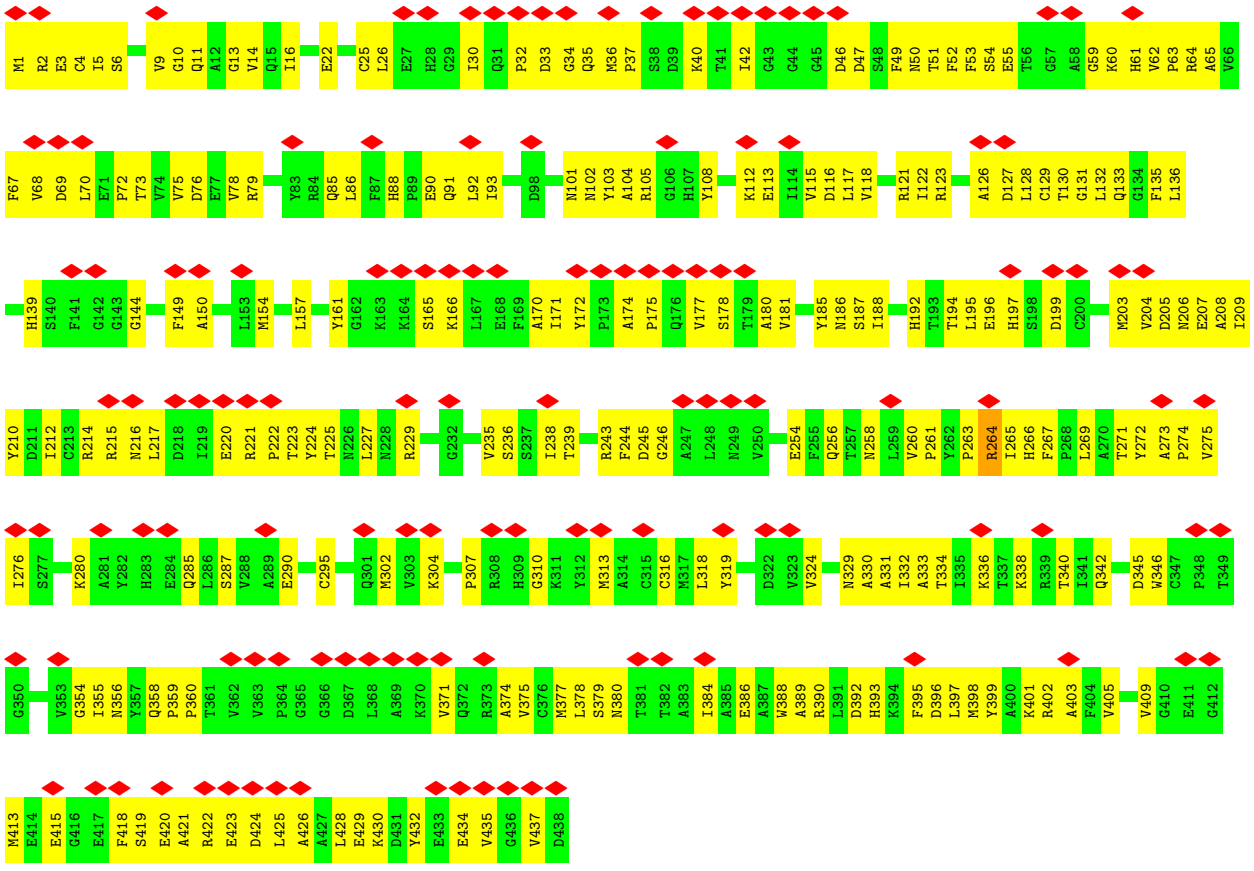




• Molecule 4: Detyrosinated tubulin alpha-3 chain

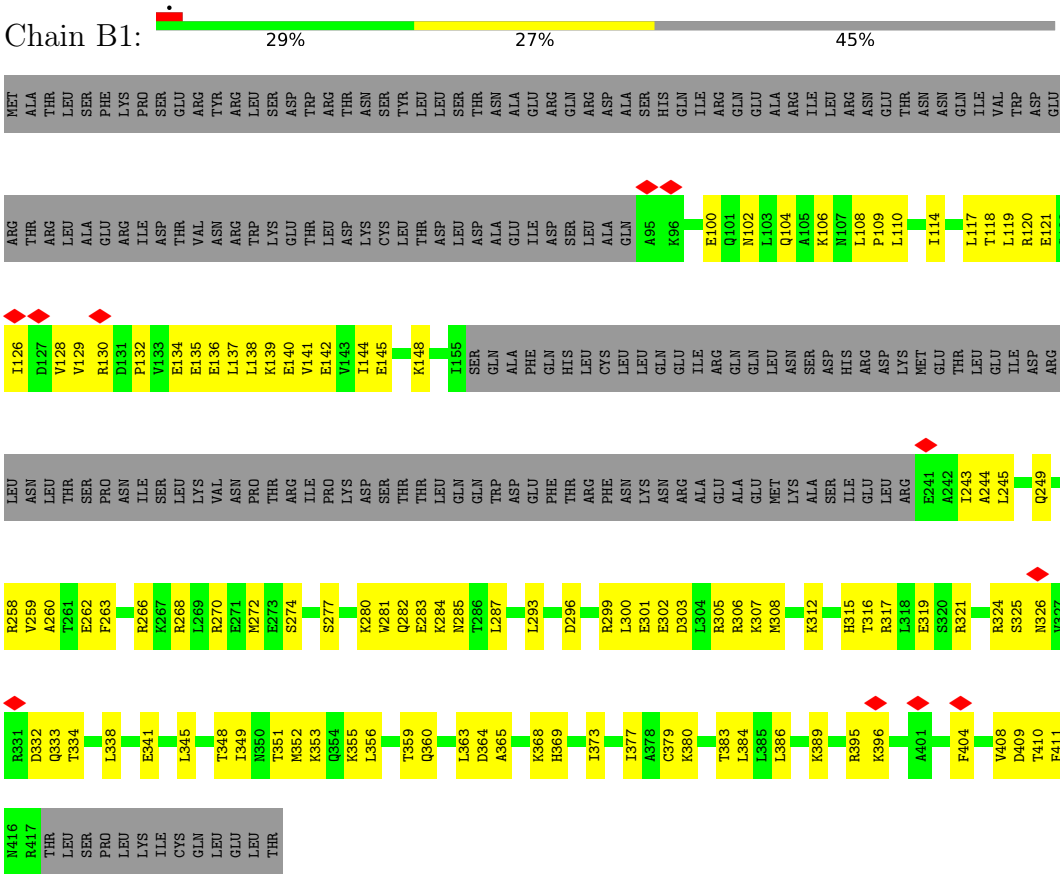
Chain WK:





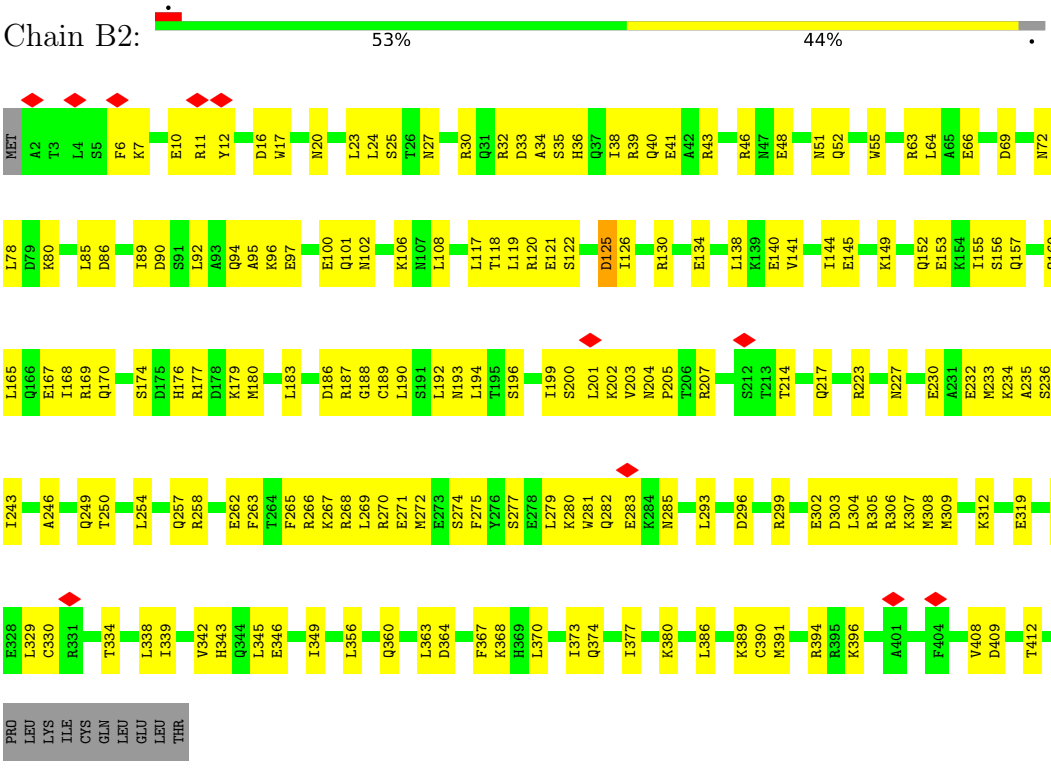
• Molecule 5: Tektin-2

Chain B1:



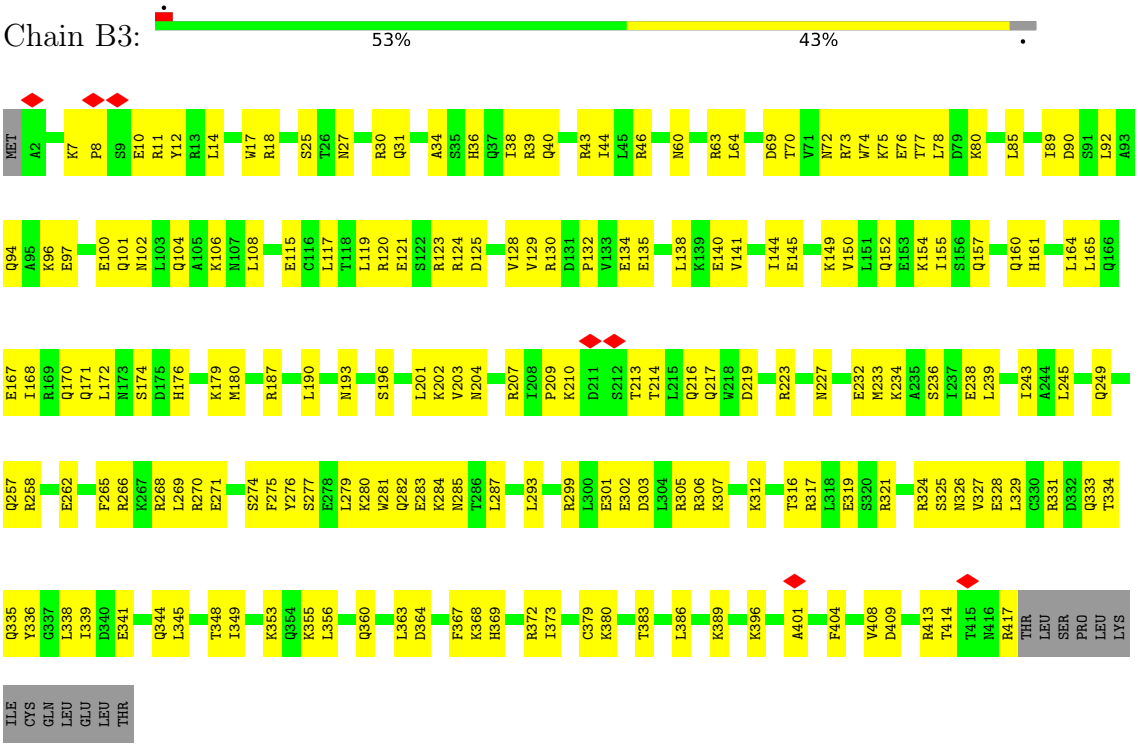
• Molecule 5: Tektin-2

Chain B2:



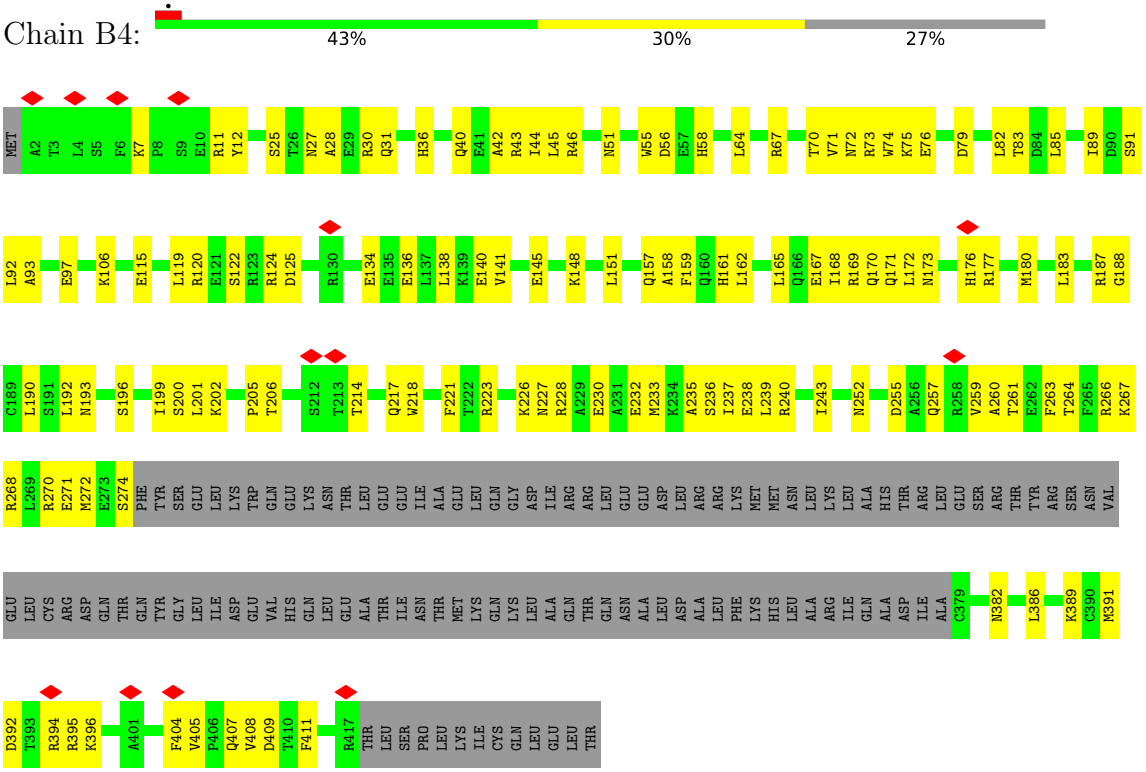
• Molecule 5: Tektin-2

Chain B3:



• Molecule 5: Tektin-2

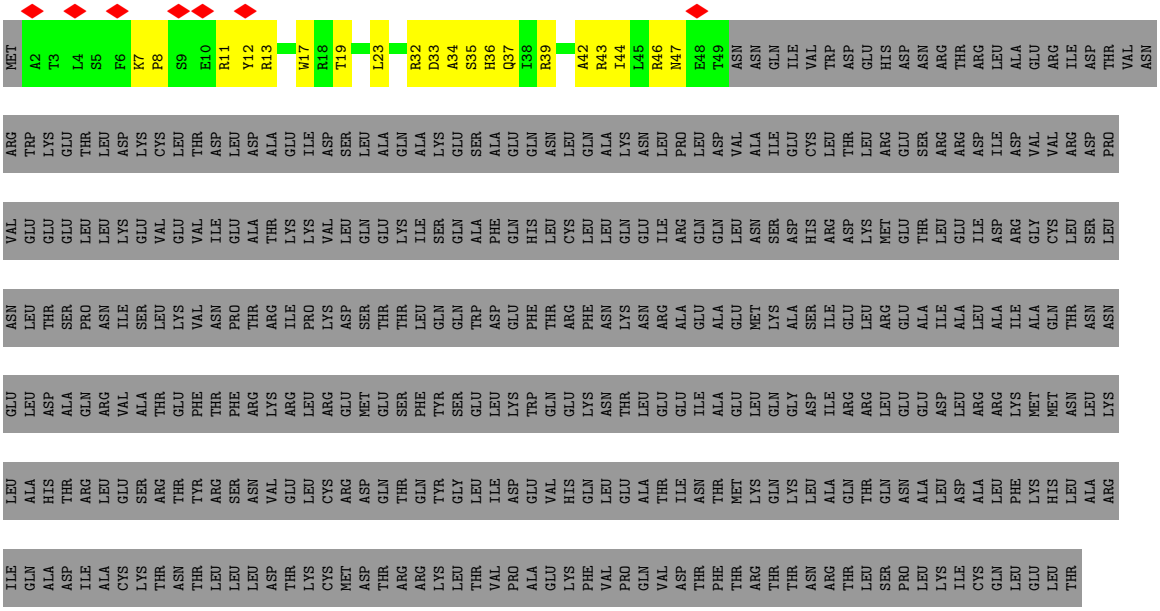
Chain B4:



• Molecule 5: Tektin-2

Chain B5:

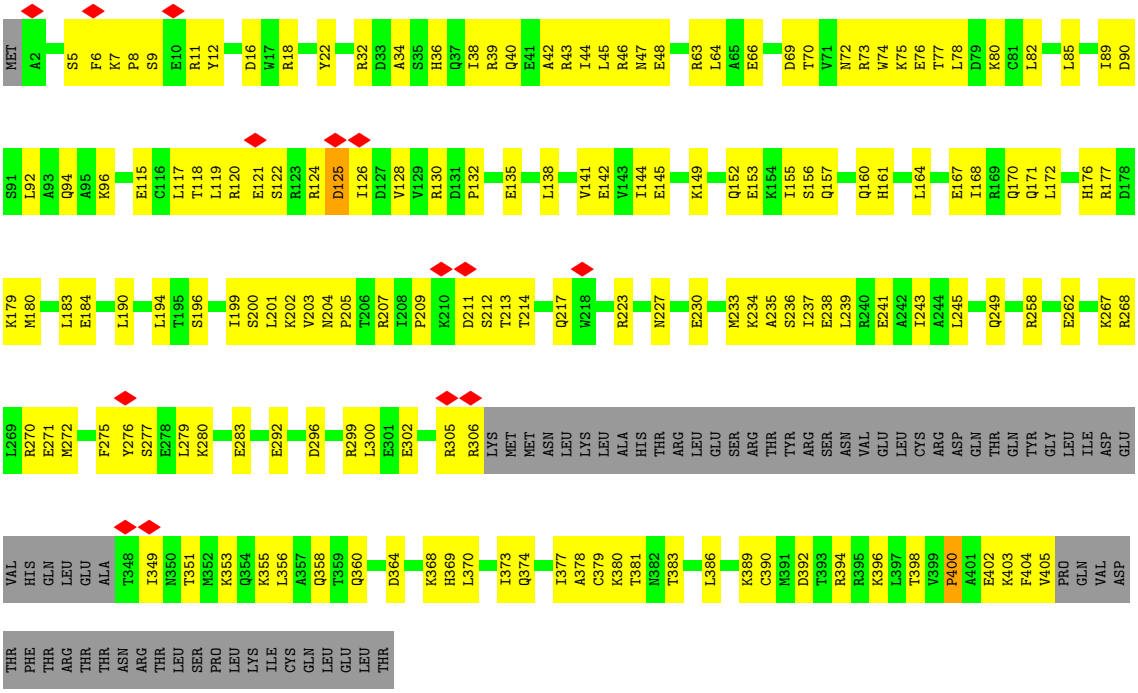




• Molecule 5: Tektin-2

Chain B6:

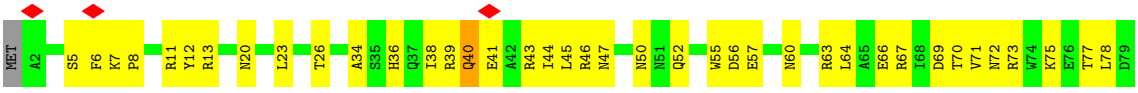


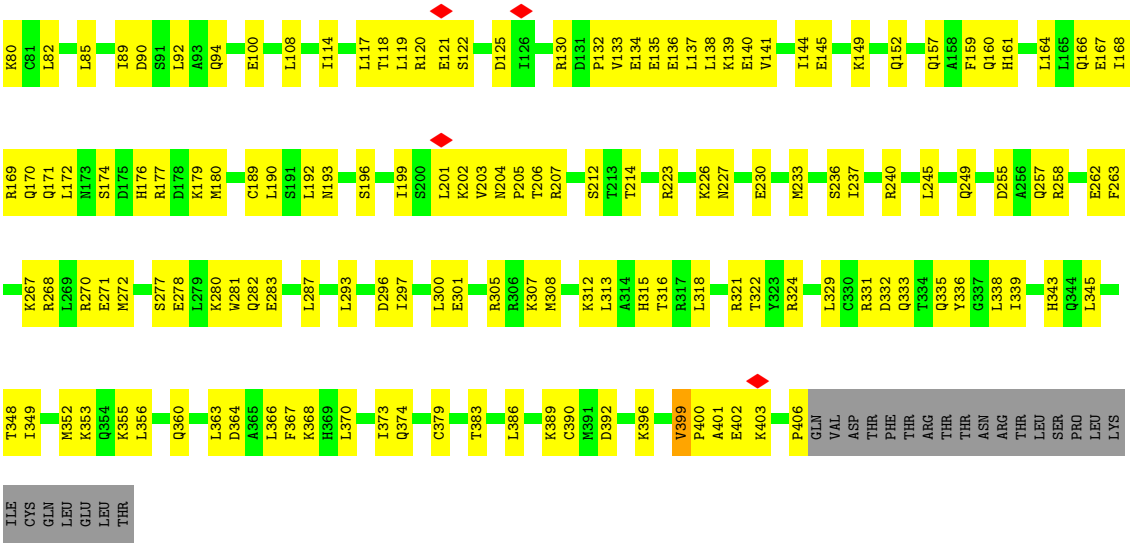


• Molecule 5: Tektin-2

Chain B7:



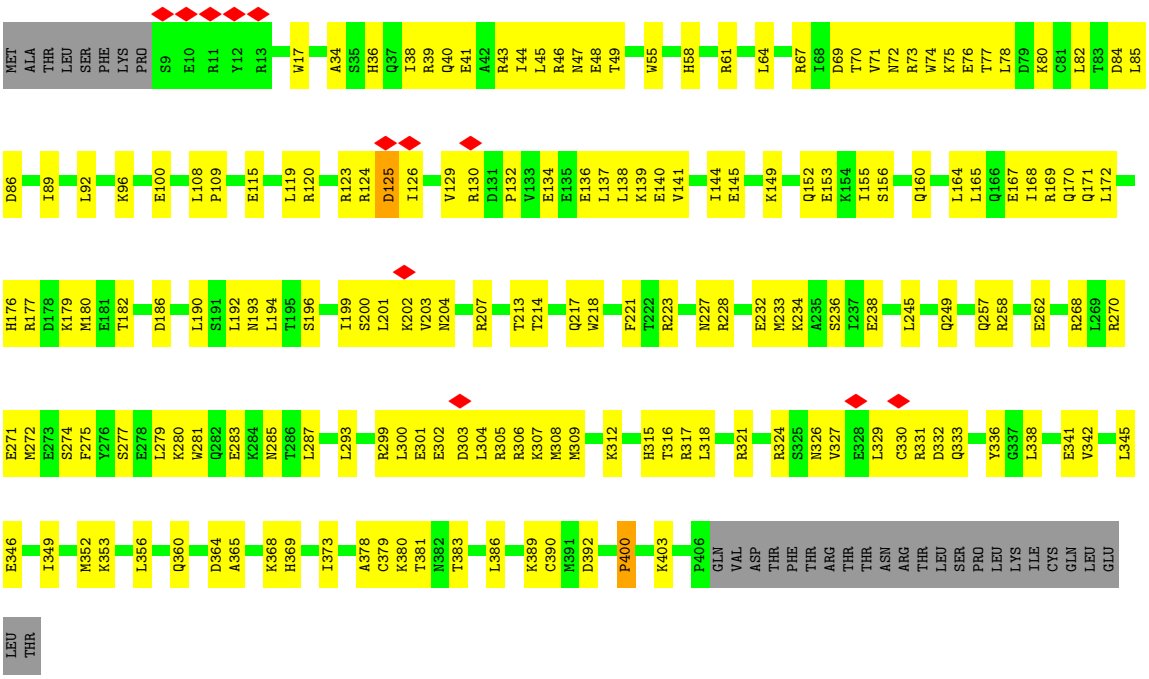




• Molecule 5: Tektin-2

Chain B8:

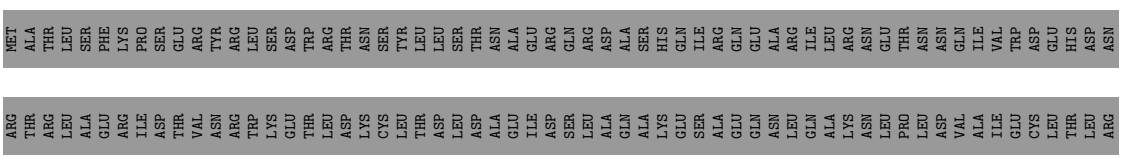


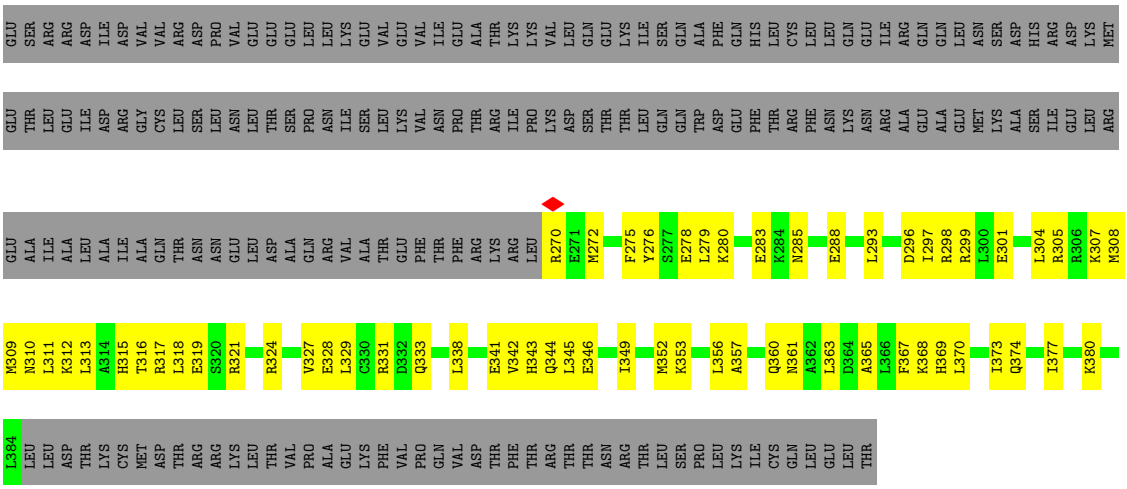


• Molecule 5: Tektin-2

Chain B9:



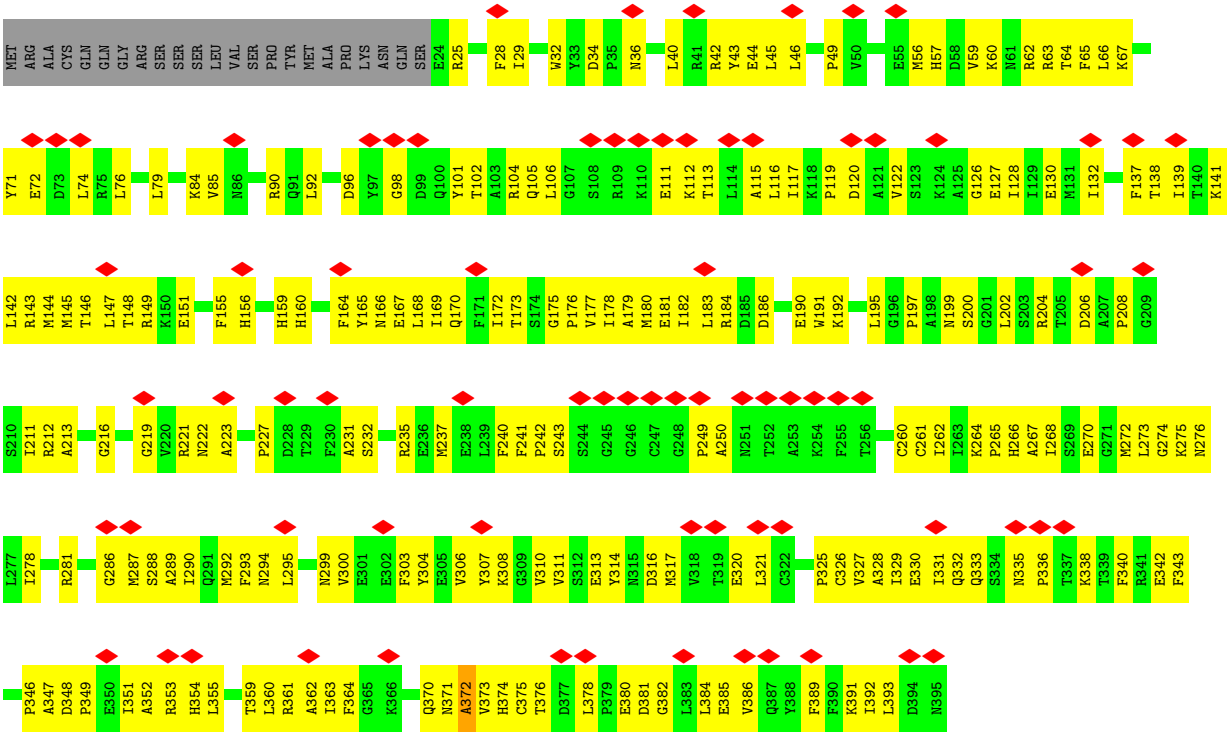




• Molecule 6: Nucleoside diphosphate kinase 7

Chain C:

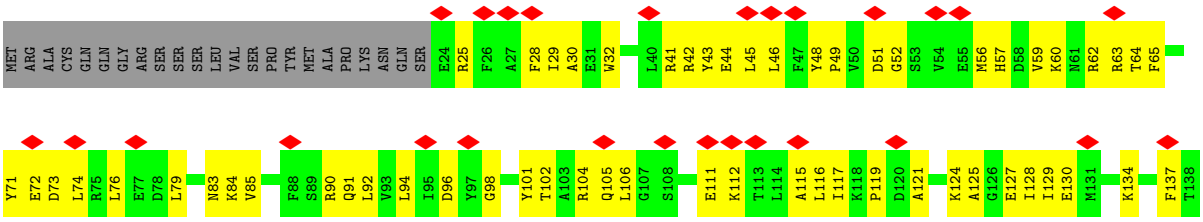


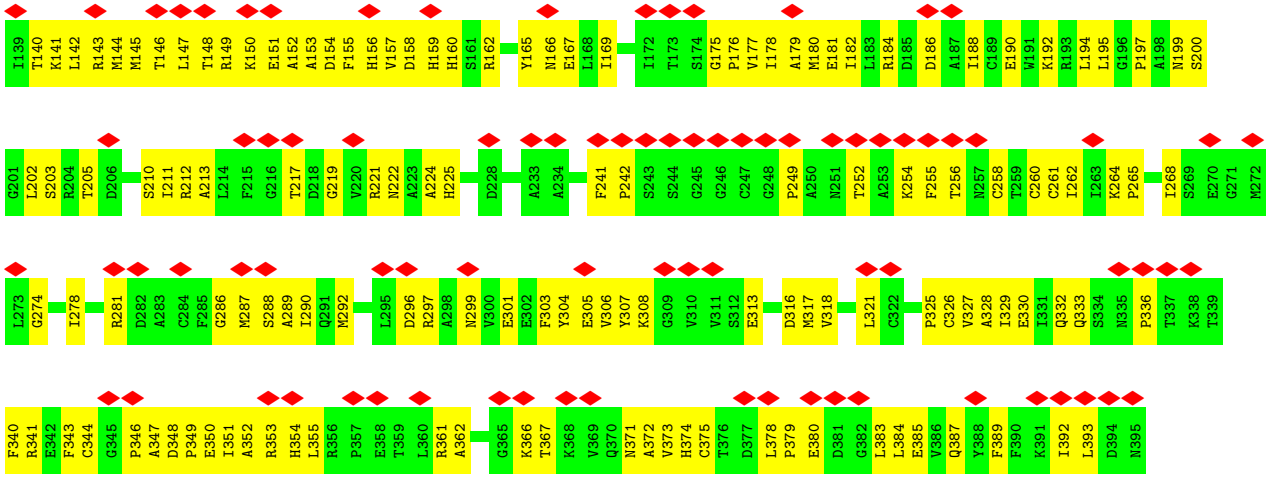


• Molecule 6: Nucleoside diphosphate kinase 7

Chain D:



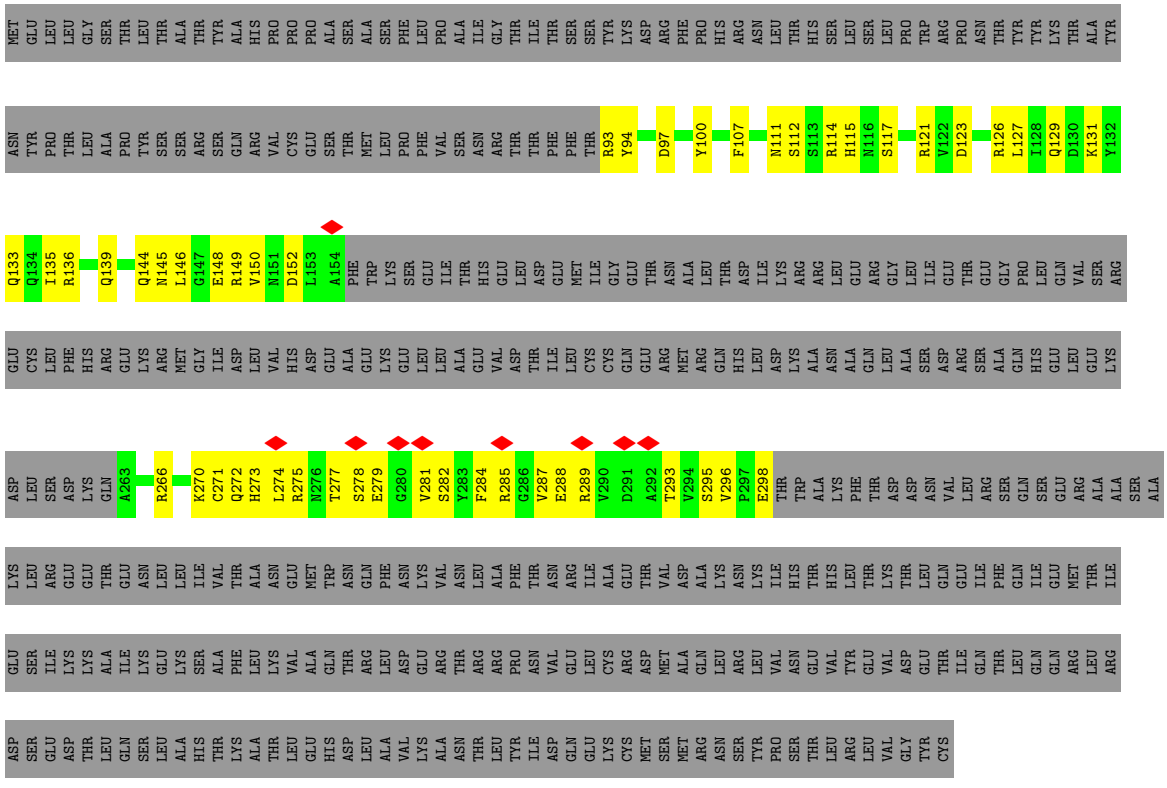




- Molecule 7: Tektin-3

Chain C1:

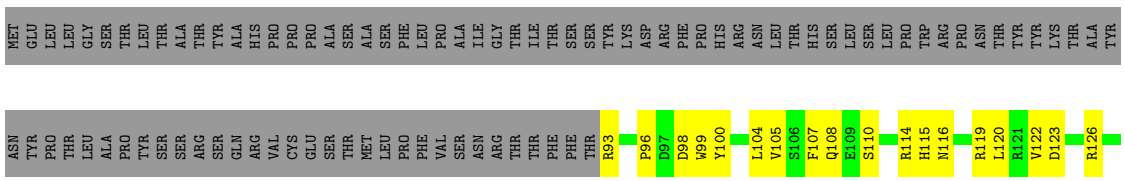


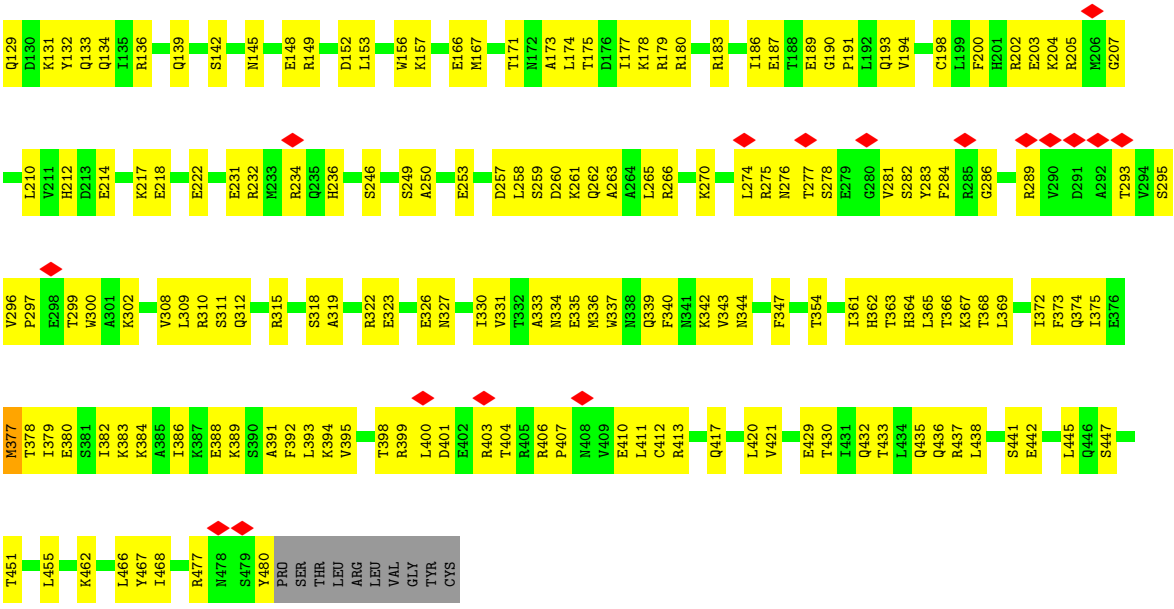


- Molecule 7: Tektin-3

Chain C2:



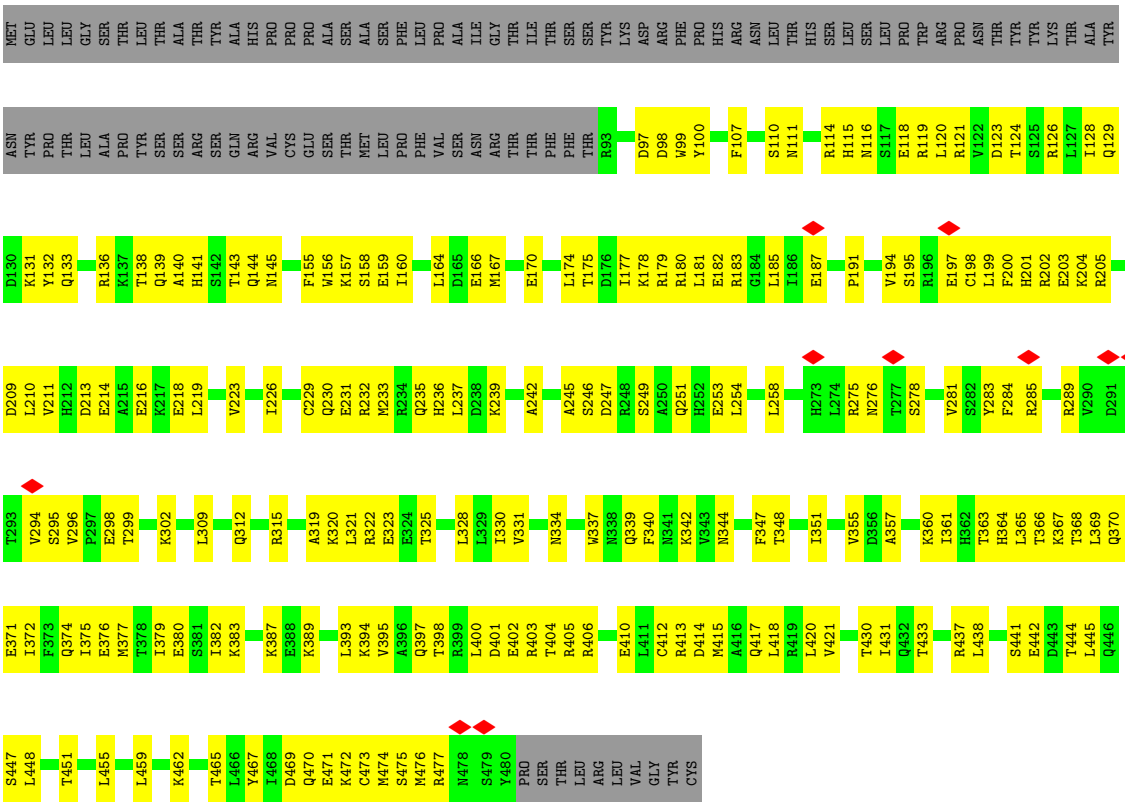




• Molecule 7: Tektin-3

Chain C3:

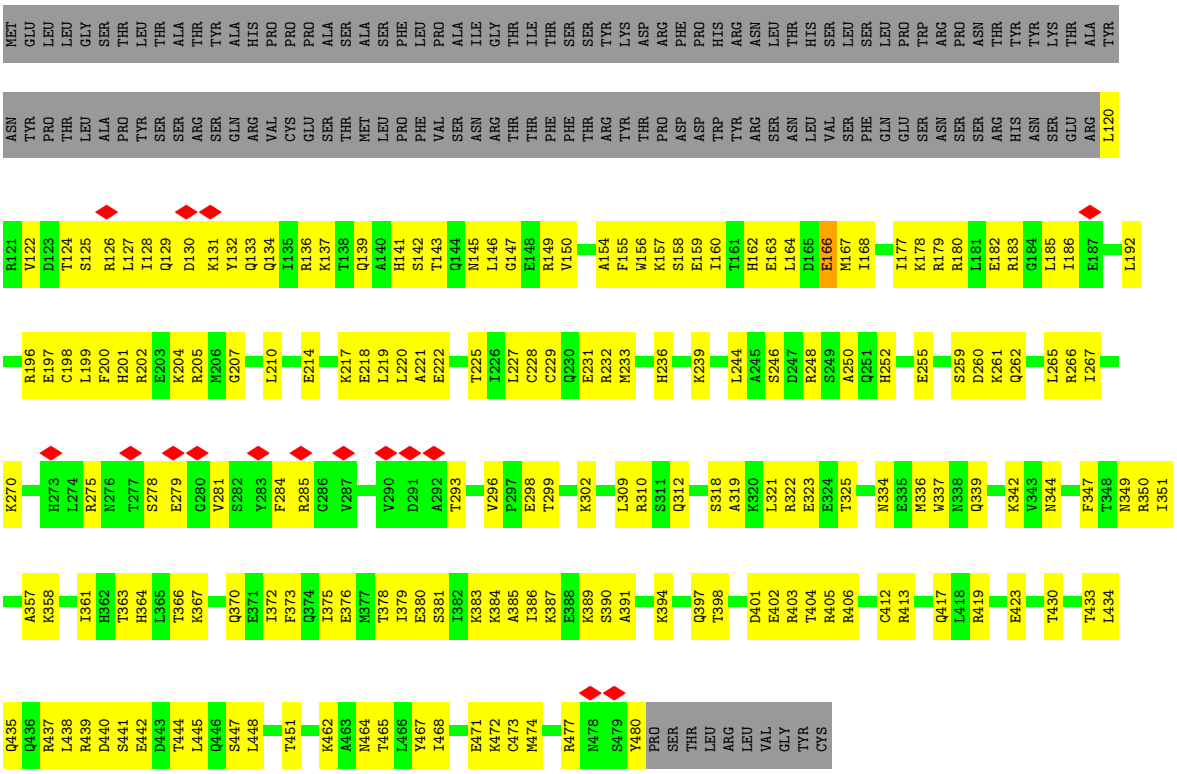




• Molecule 7: Tektin-3

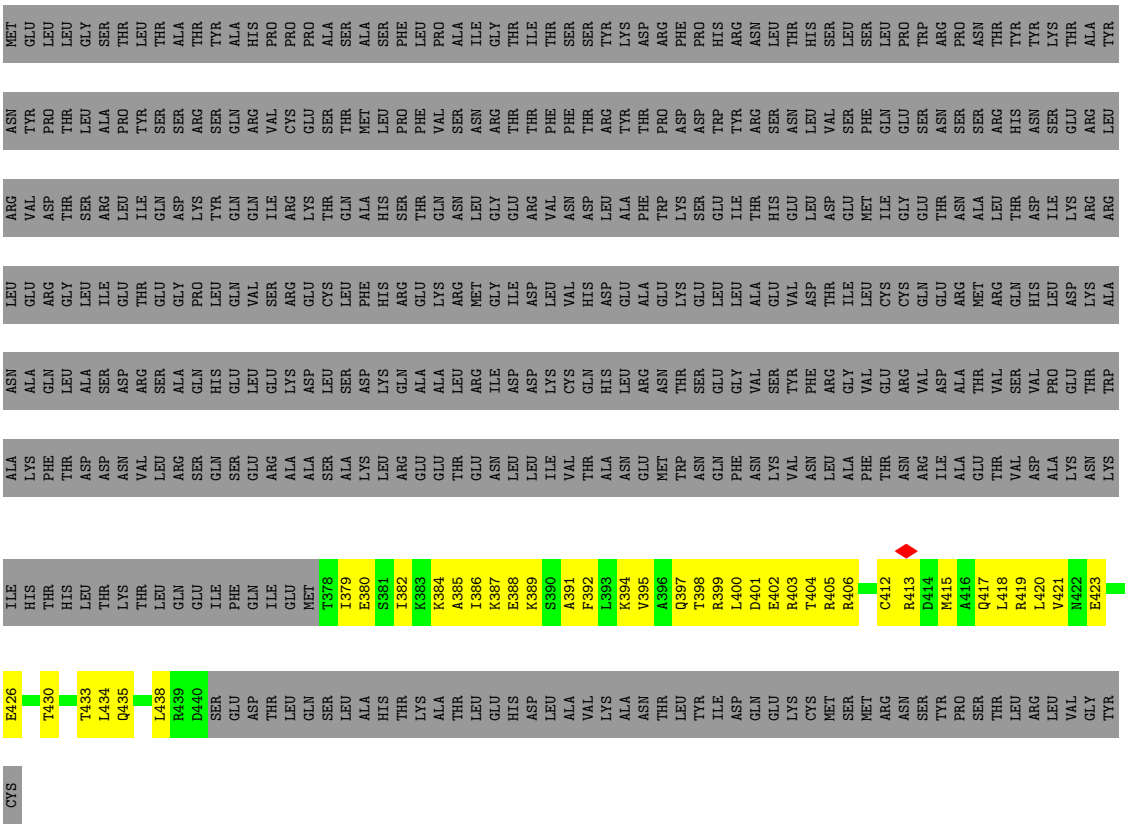
Chain C4:





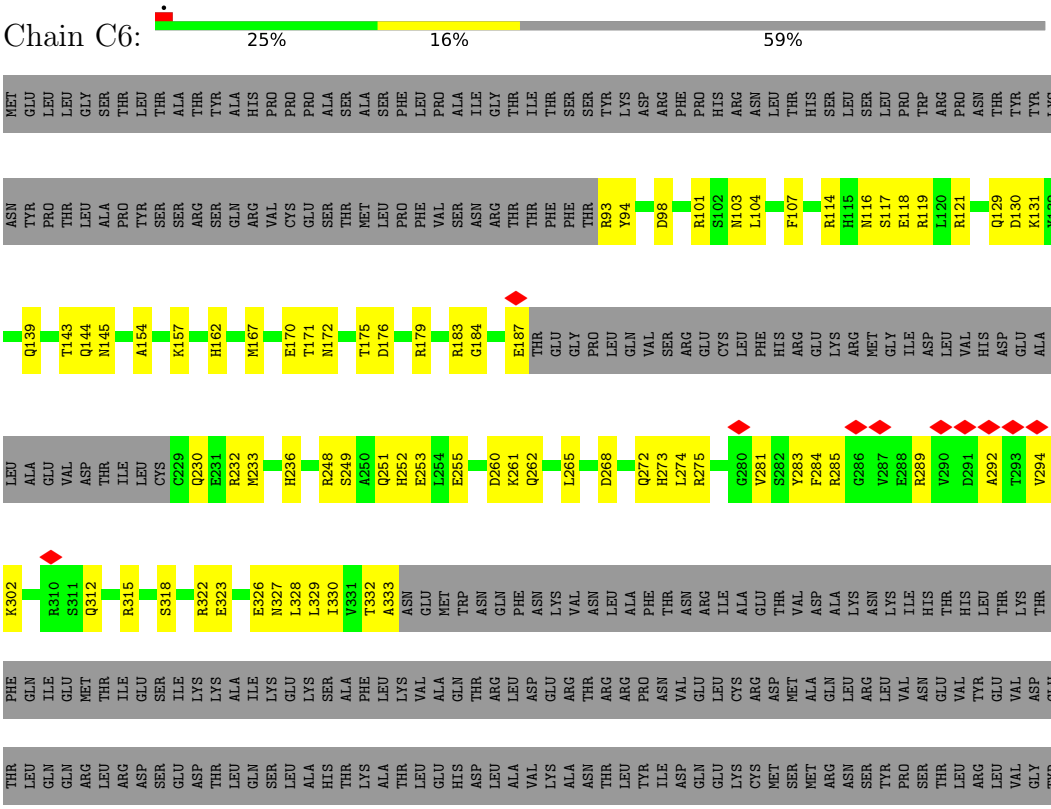
• Molecule 7: Tektin-3

Chain C5: 5% 8% 87%



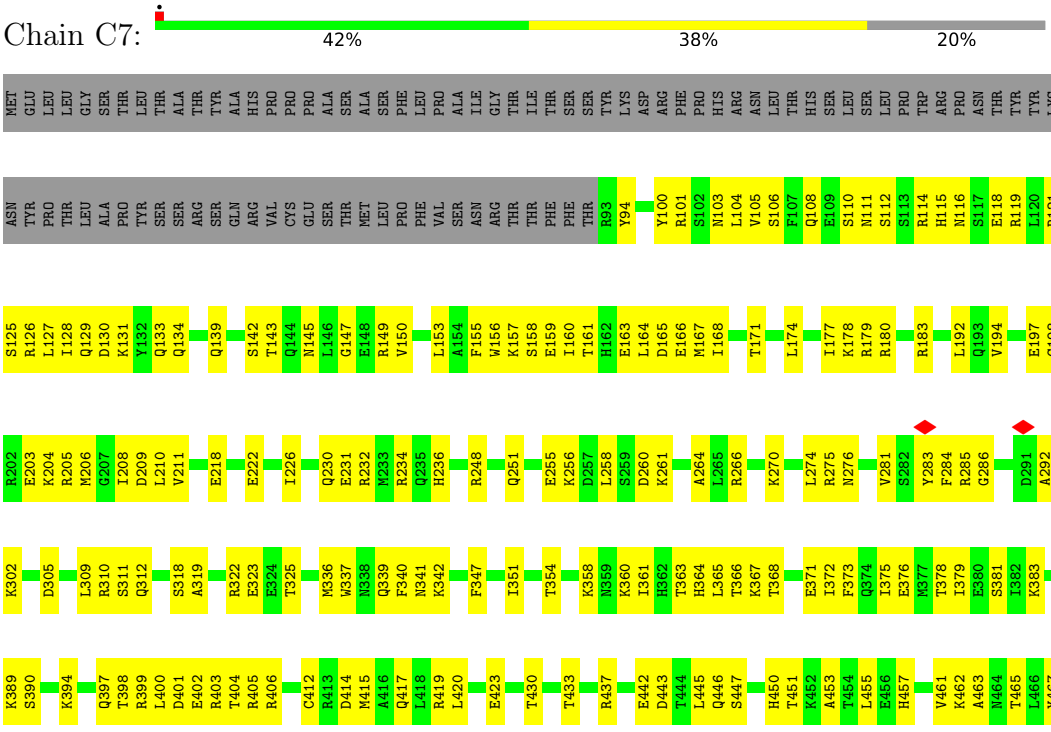
• Molecule 7: Tektin-3

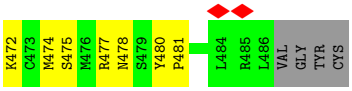
Chain C6:



• Molecule 7: Tektin-3

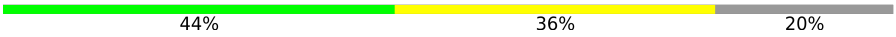
Chain C7:

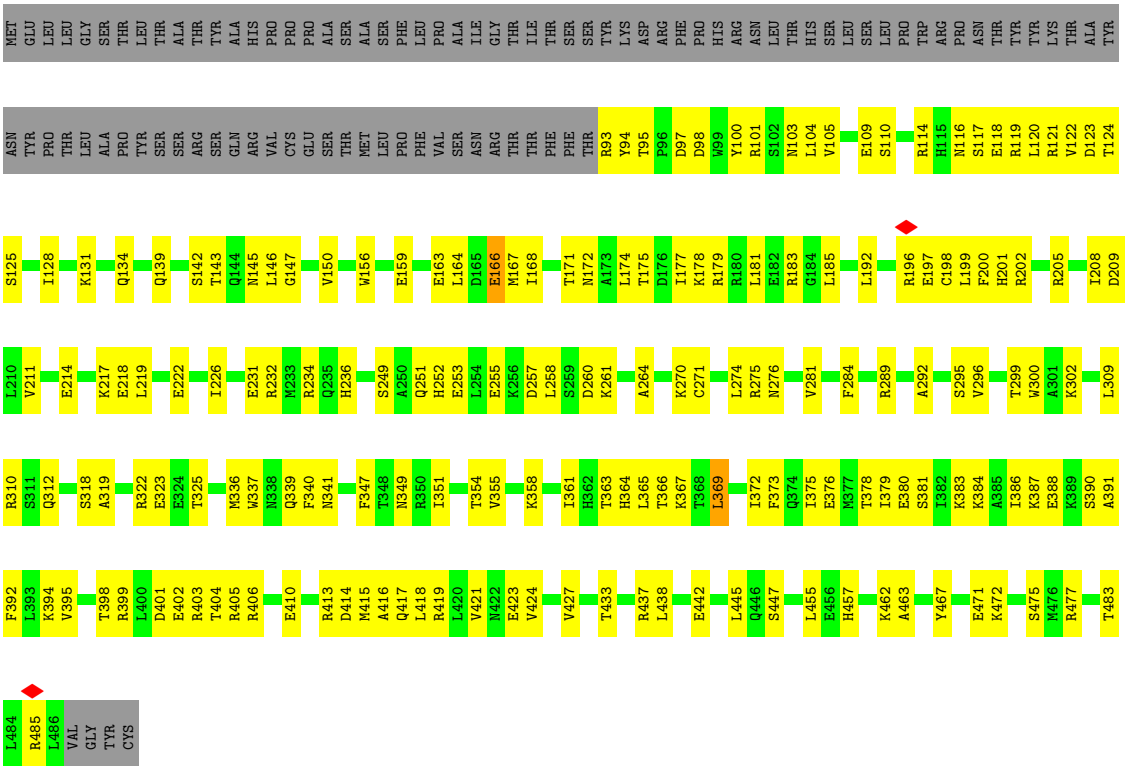




• Molecule 7: Tektin-3

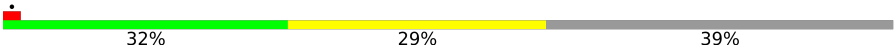
Chain C8:

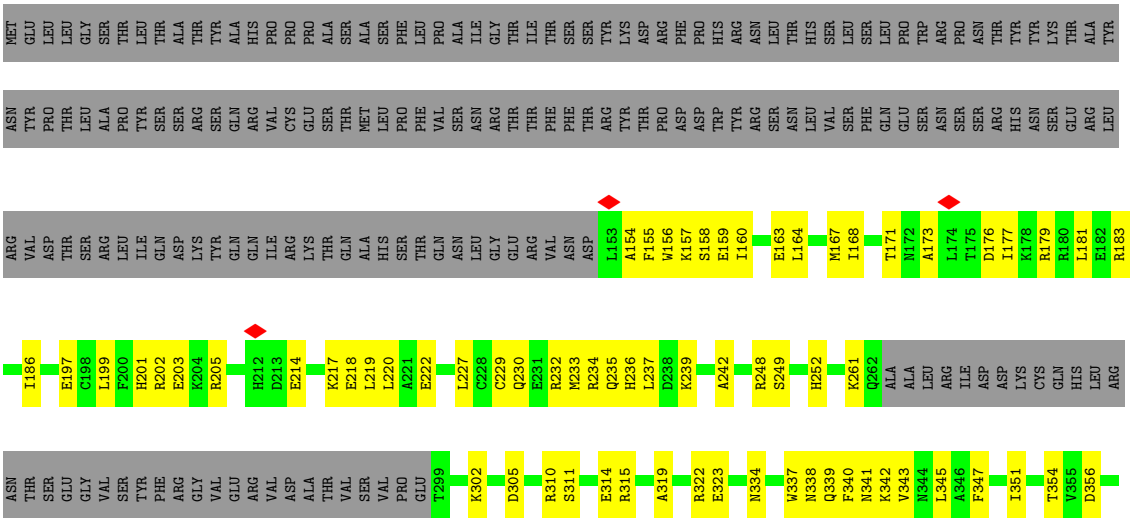


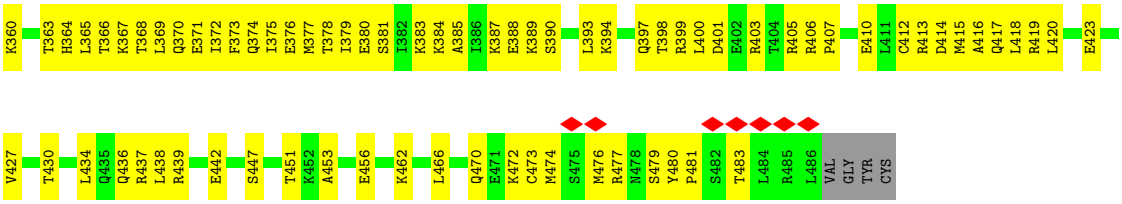


• Molecule 7: Tektin-3

Chain C9:



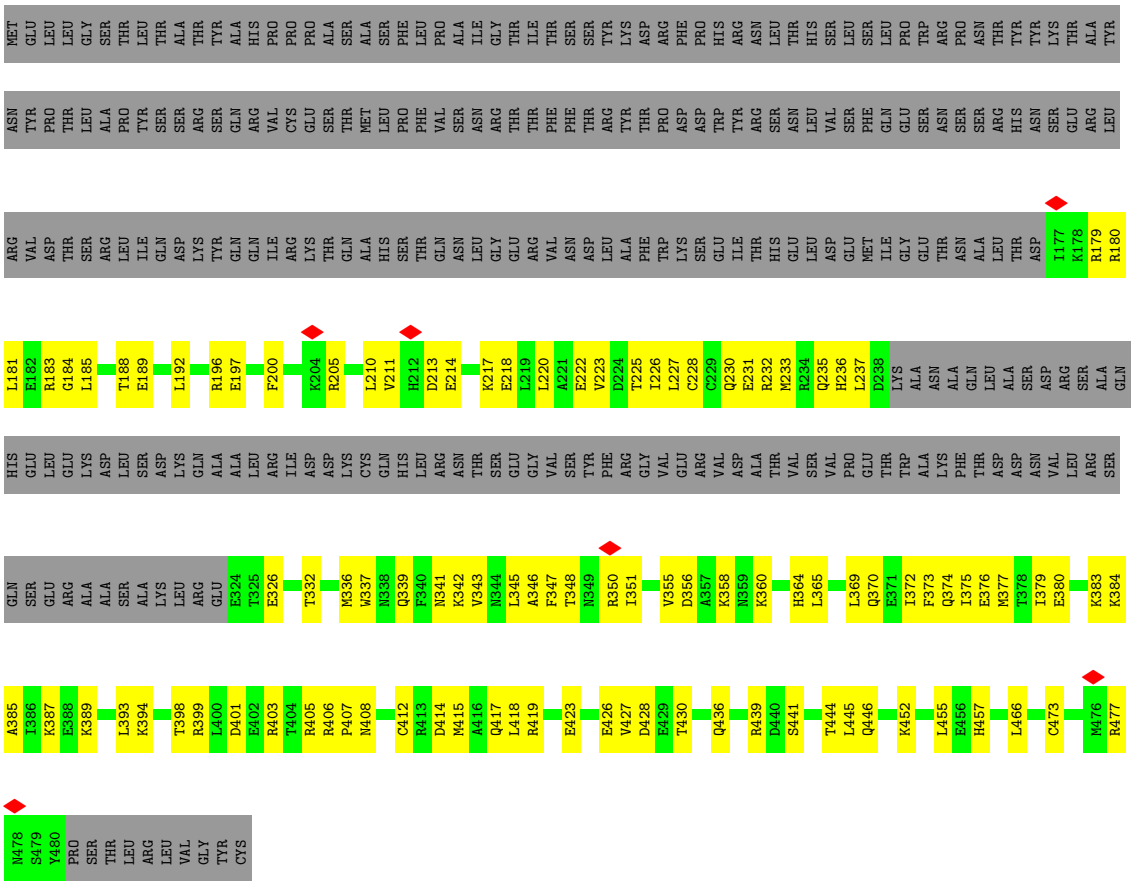




• Molecule 7: Tektin-3

Chain Ca:

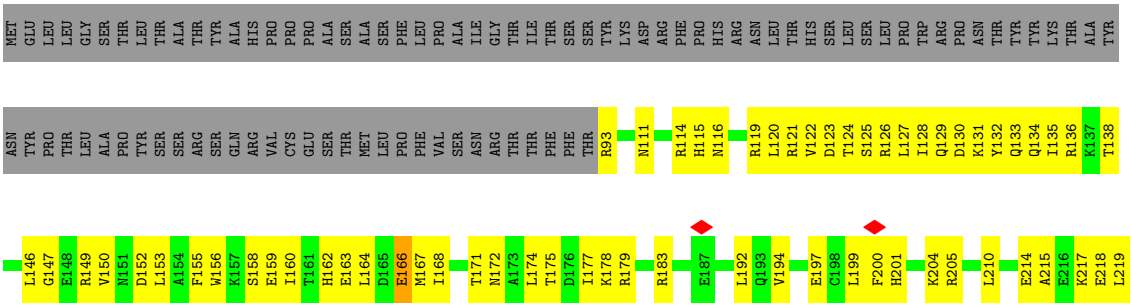




• Molecule 7: Tektin-3

Chain Cb:



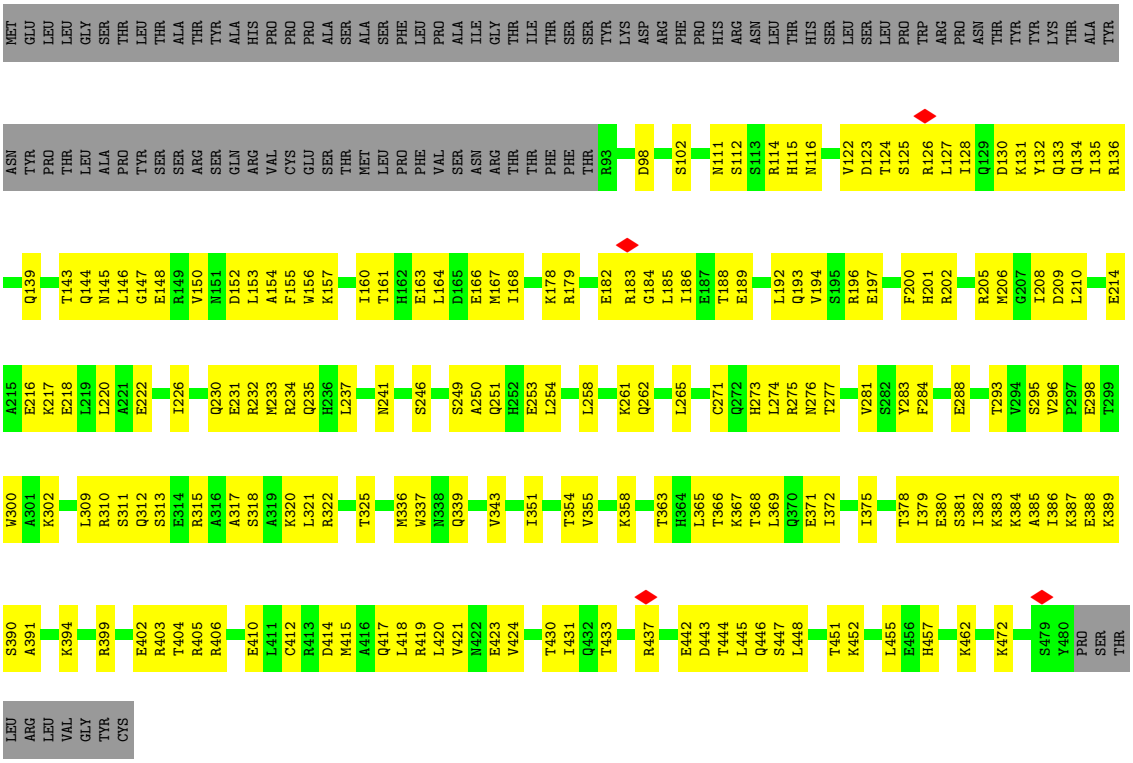




• Molecule 7: Tektin-3

Chain Cc:

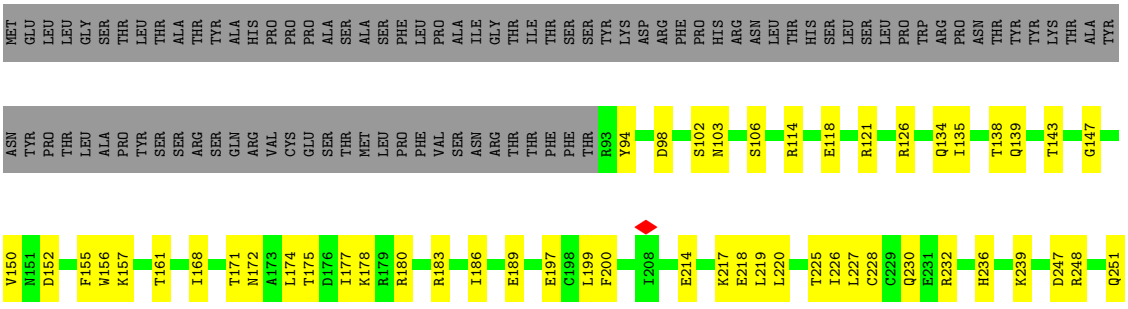


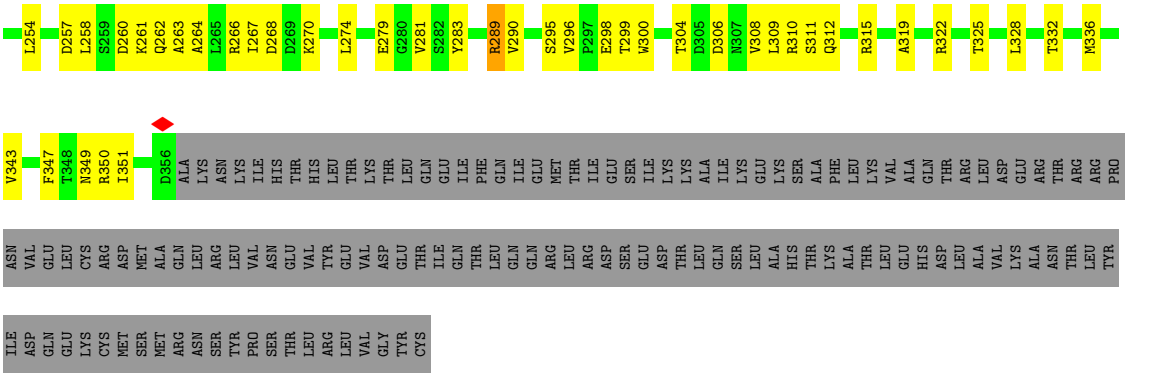


• Molecule 7: Tektin-3

Chain Cd:



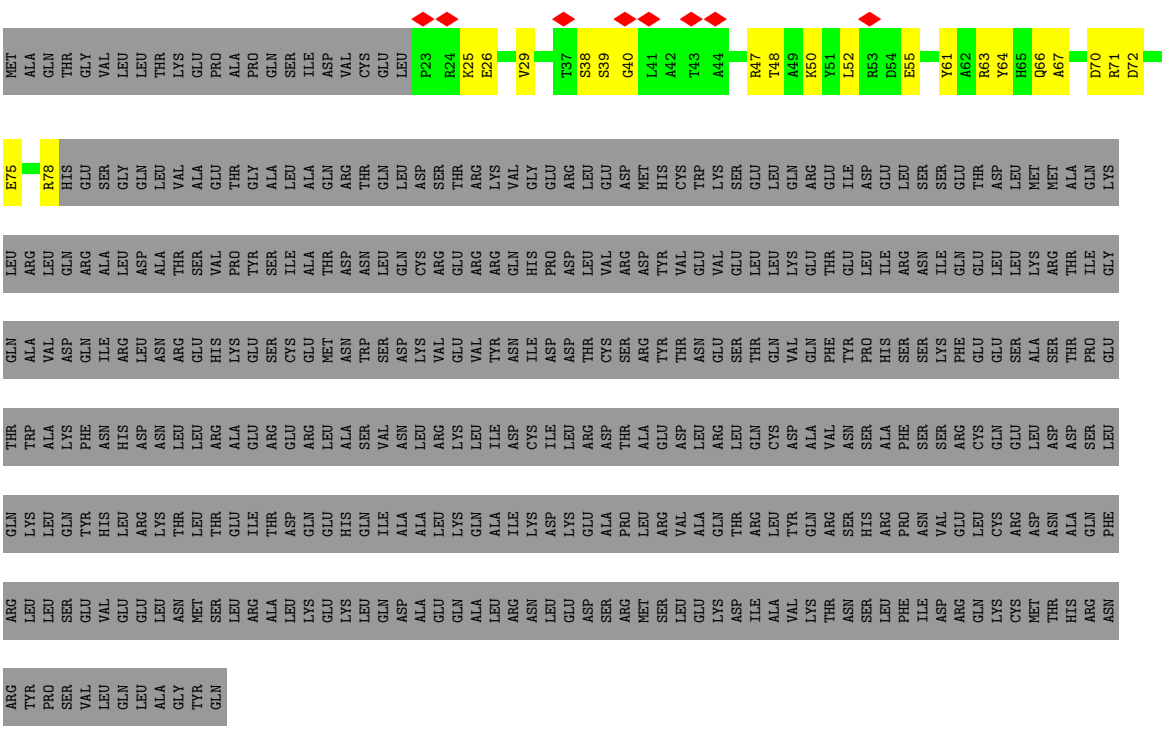




• Molecule 8: Tektin-4

Chain D1:

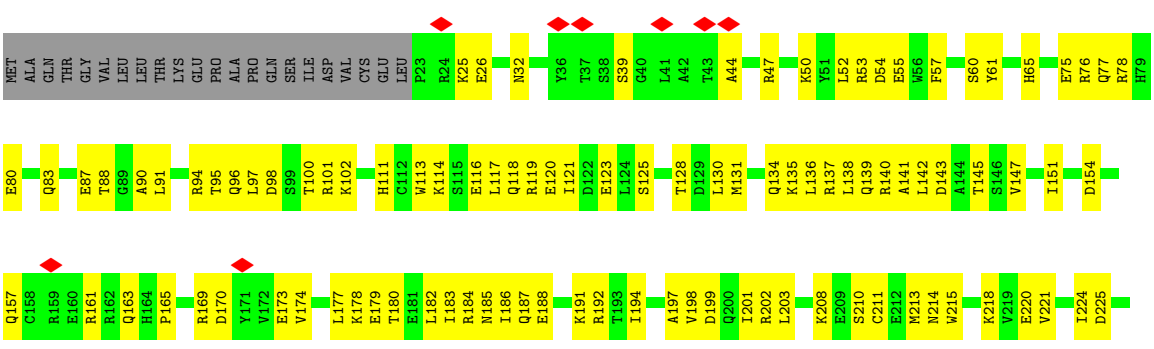


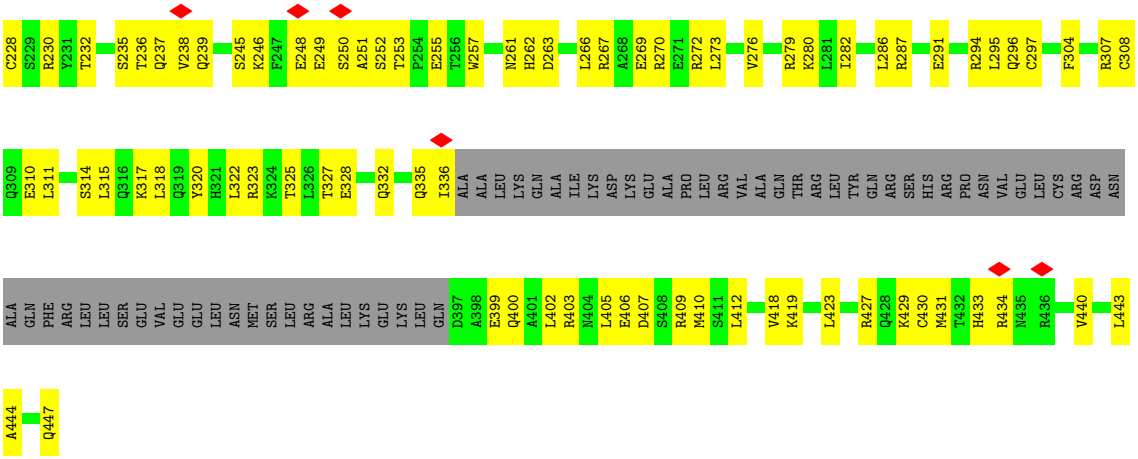


• Molecule 8: Tektin-4

Chain D2:



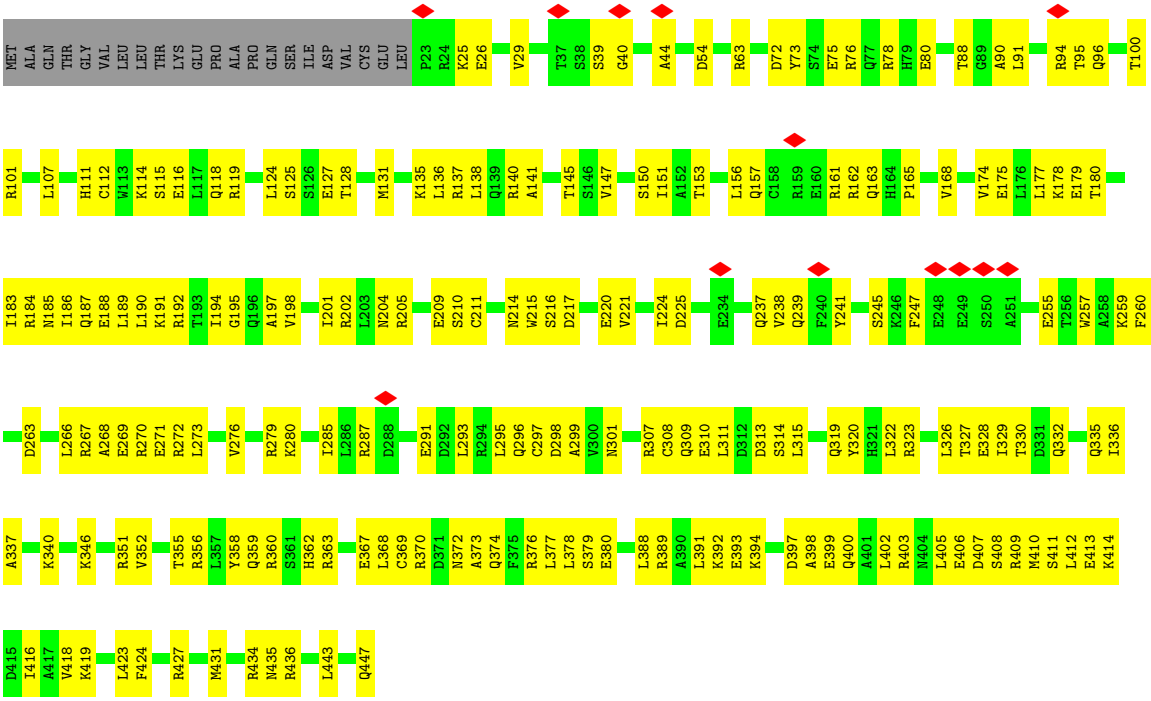




• Molecule 8: Tektin-4

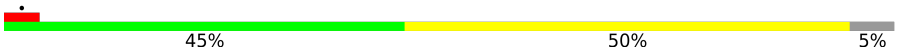
Chain D3:

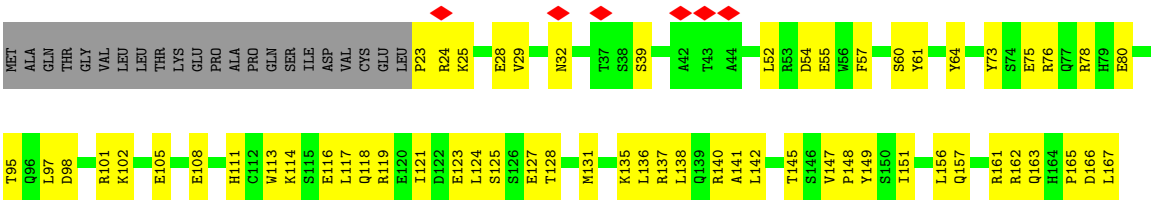


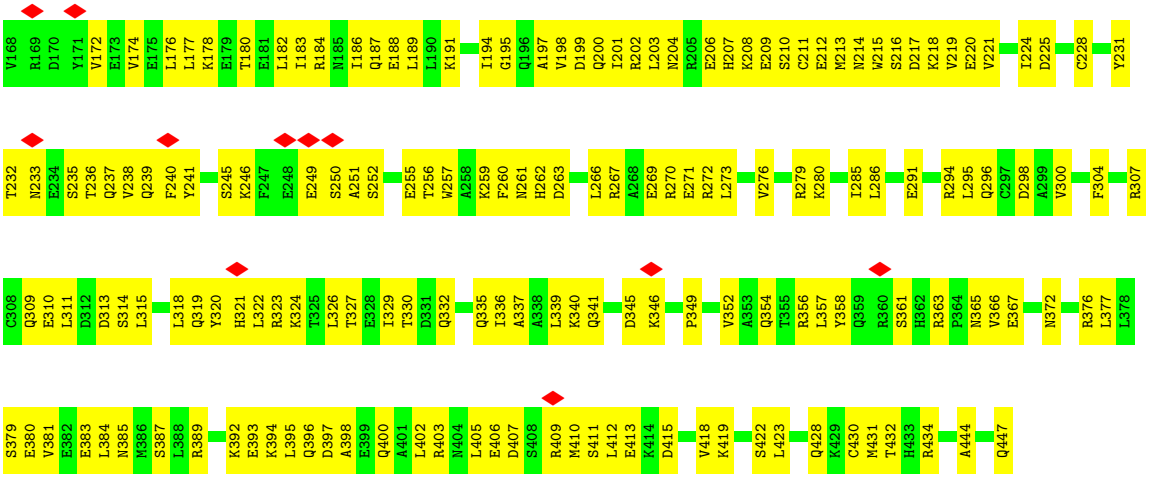


• Molecule 8: Tektin-4

Chain D4:



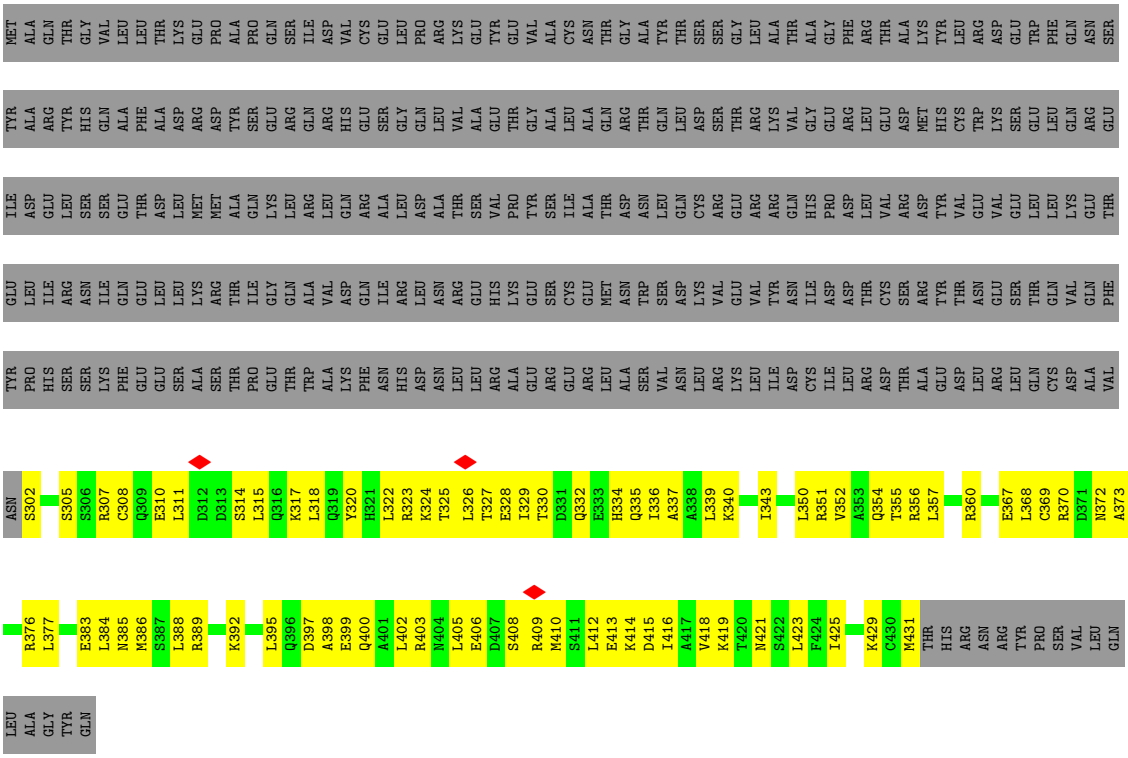




• Molecule 8: Tektin-4

Chain D5:

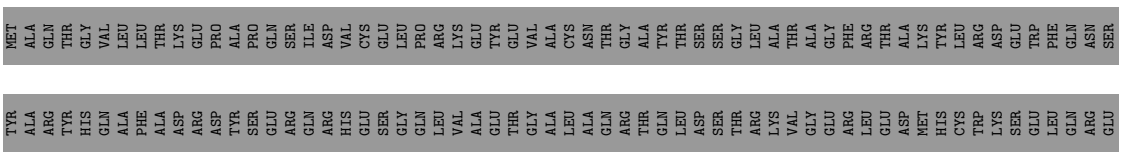


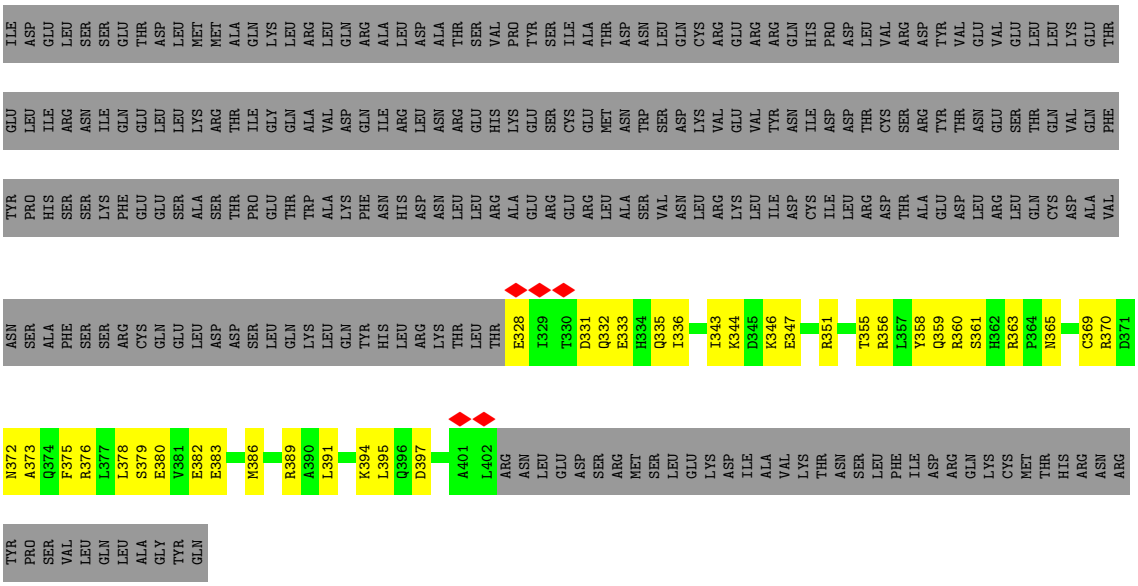


• Molecule 8: Tektin-4

Chain D6:



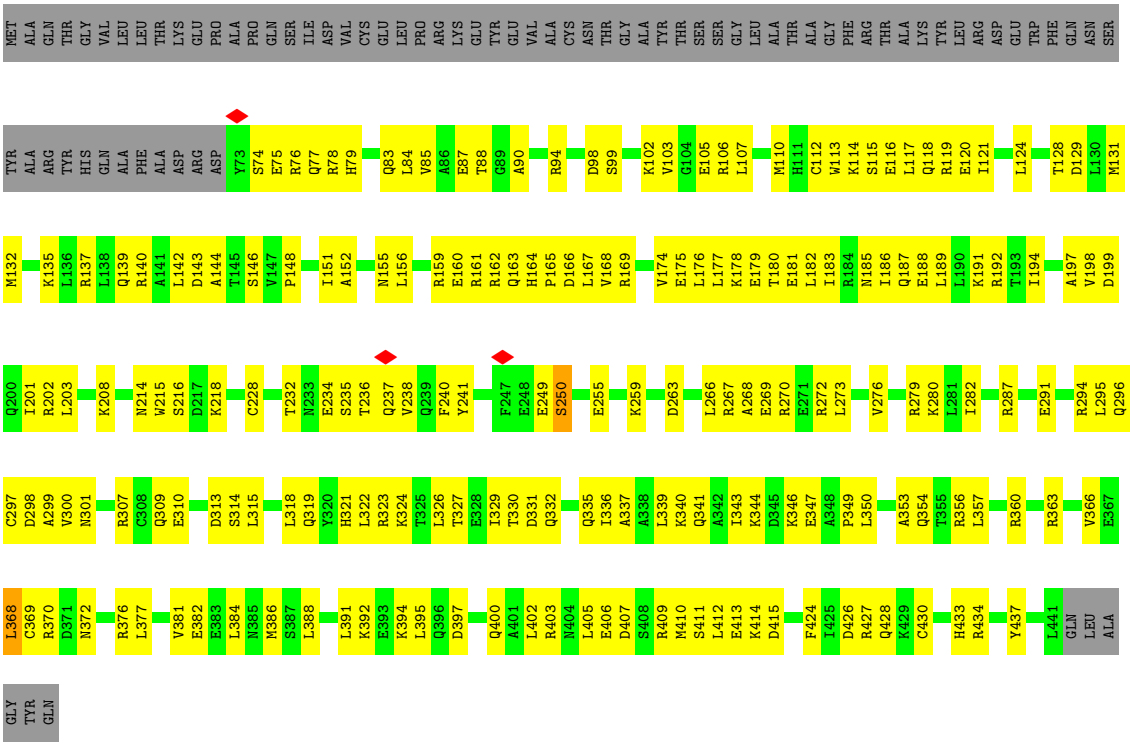




• Molecule 8: Tektin-4

Chain D7:



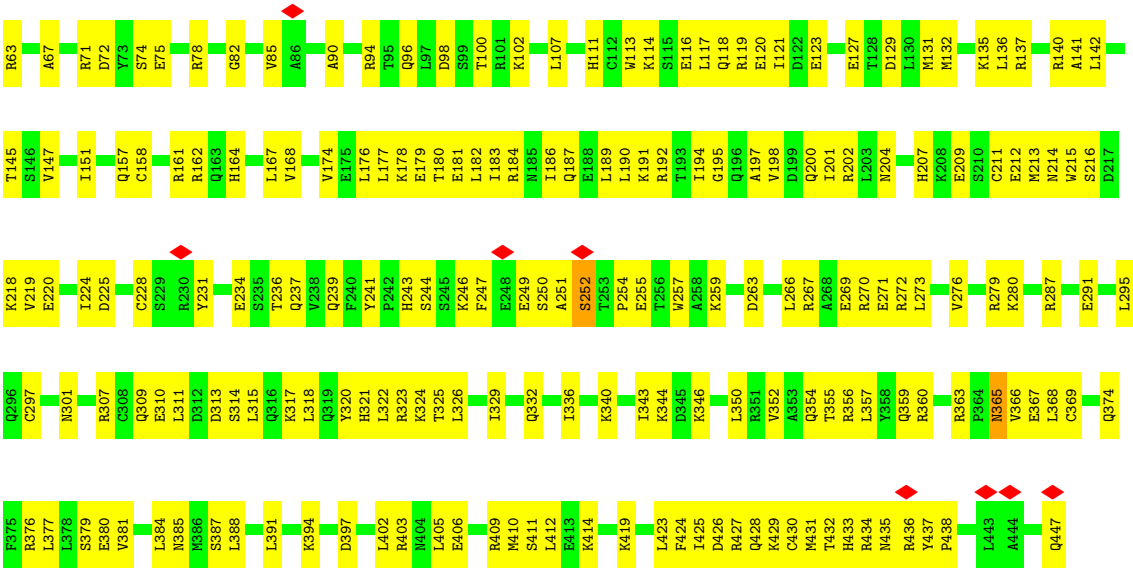


• Molecule 8: Tektin-4

Chain D8:



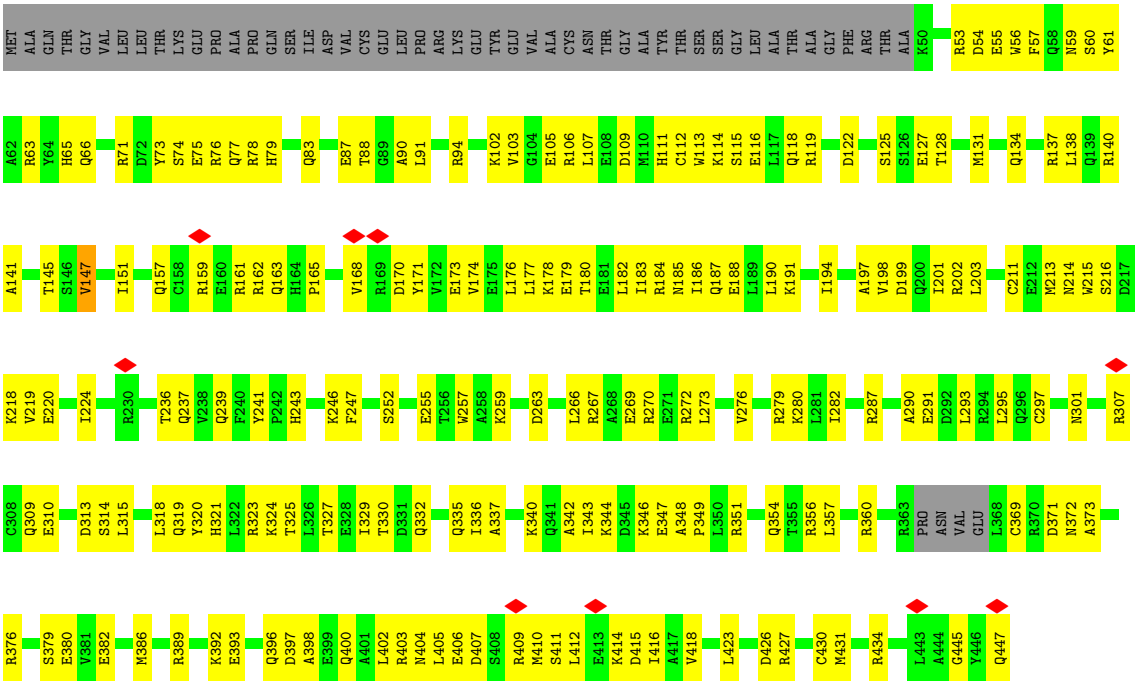




• Molecule 8: Tektin-4

Chain D9:

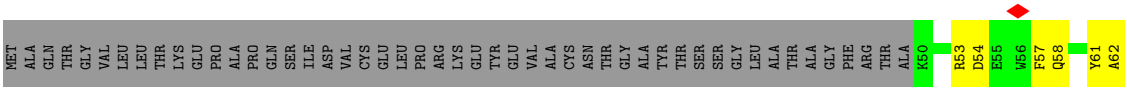


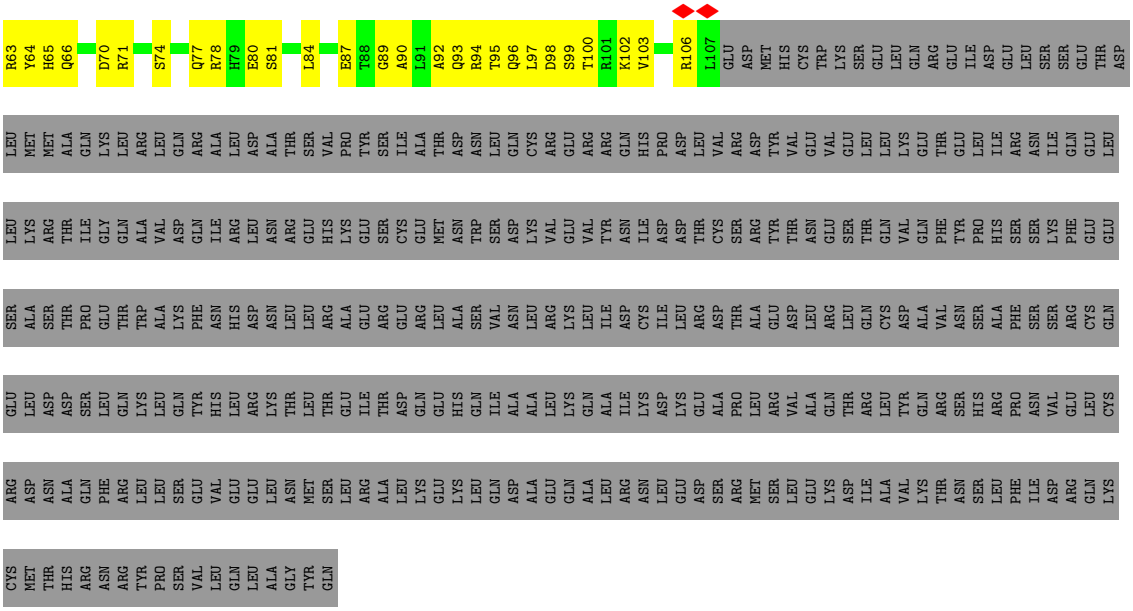


• Molecule 8: Tektin-4

Chain Da:



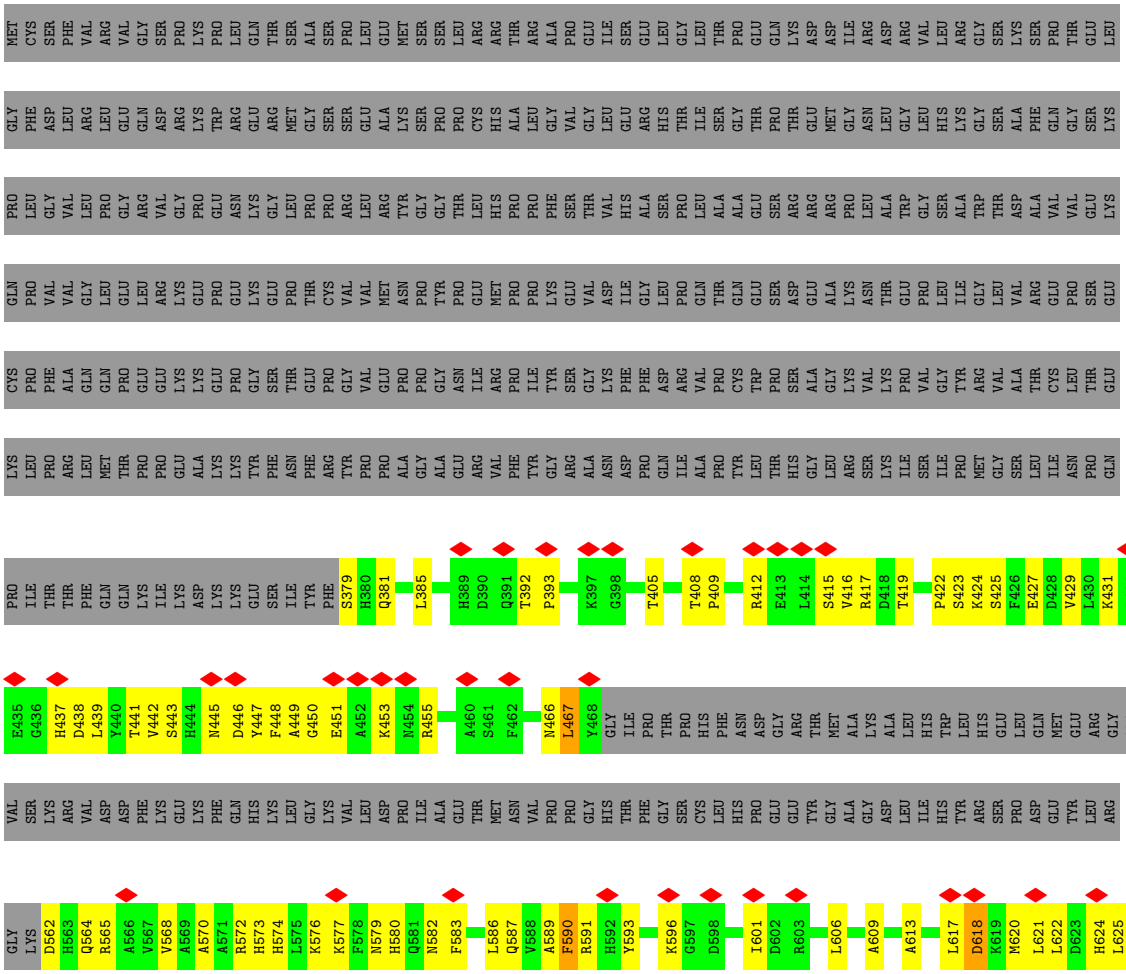


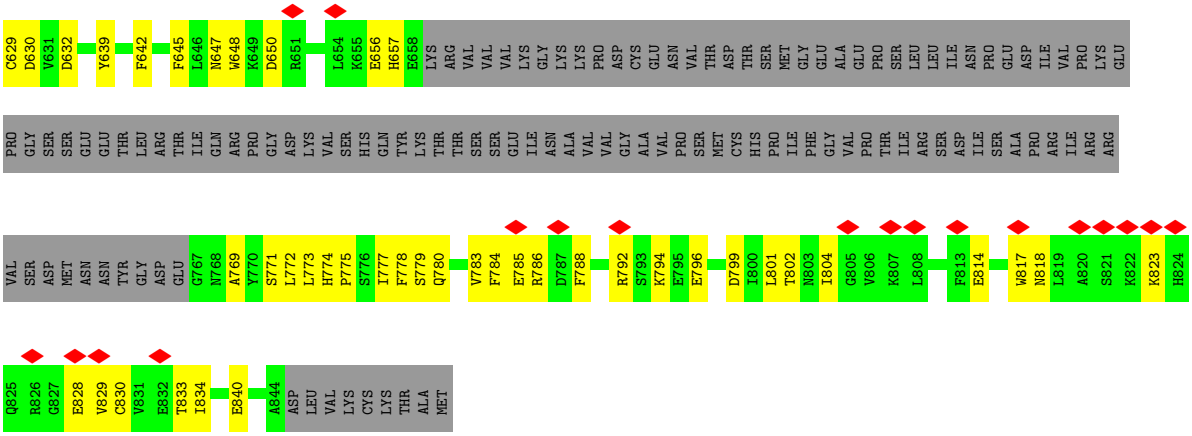


• Molecule 9: EF-hand domain-containing family member B

Chain E:



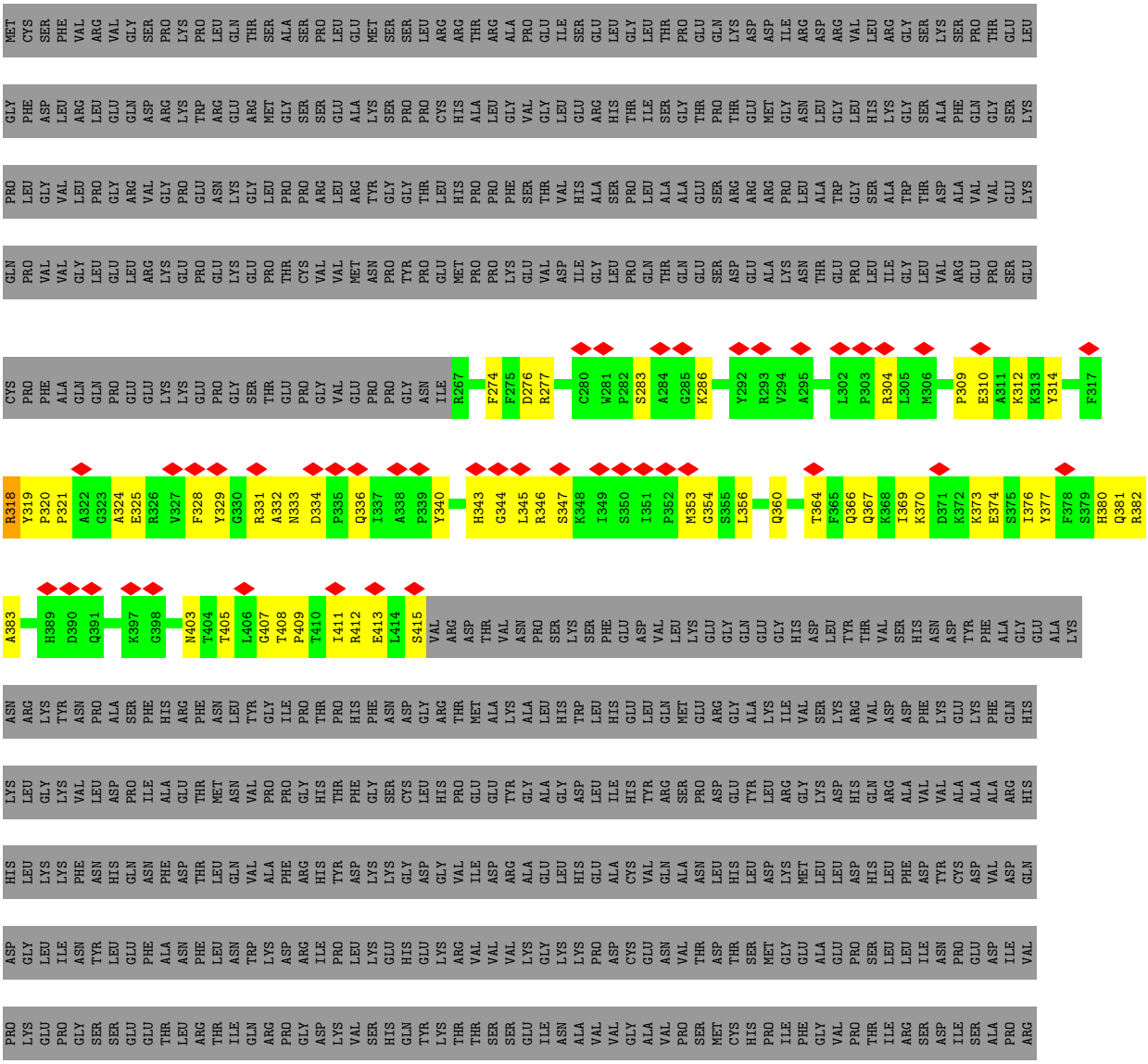


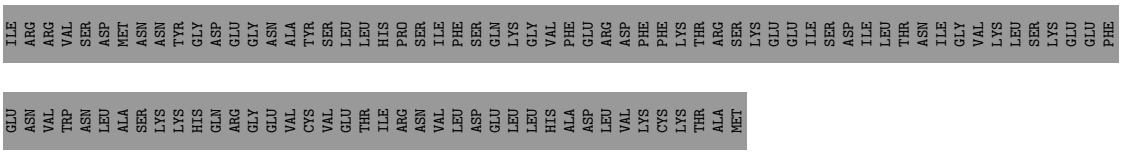


• Molecule 9: EF-hand domain-containing family member B

Chain F:



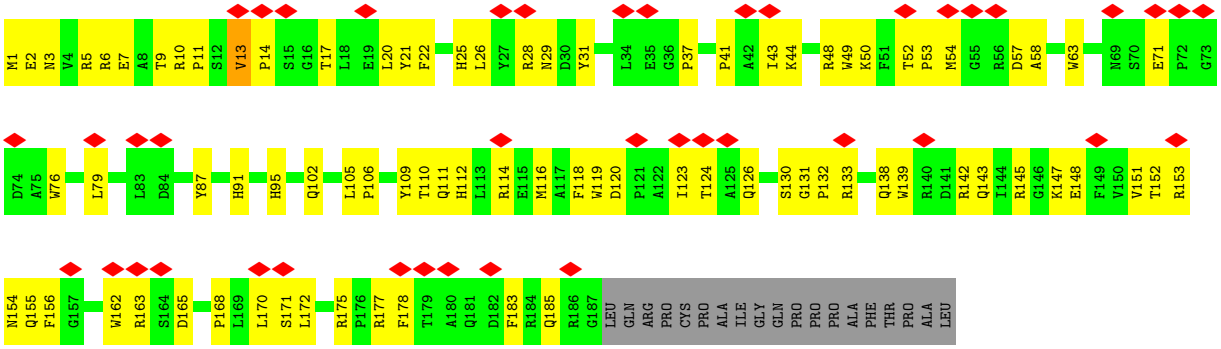




• Molecule 10: Tektin bundle-interacting protein 1

Chain E1:

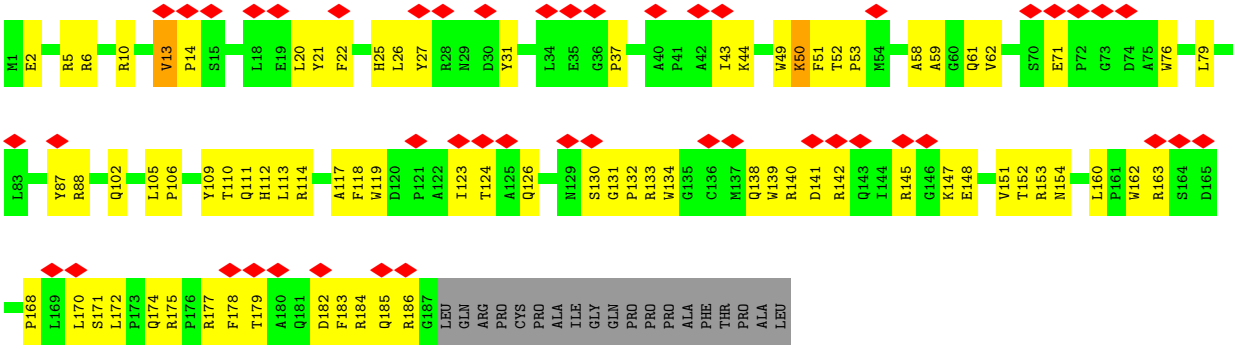




• Molecule 10: Tektin bundle-interacting protein 1

Chain E2:

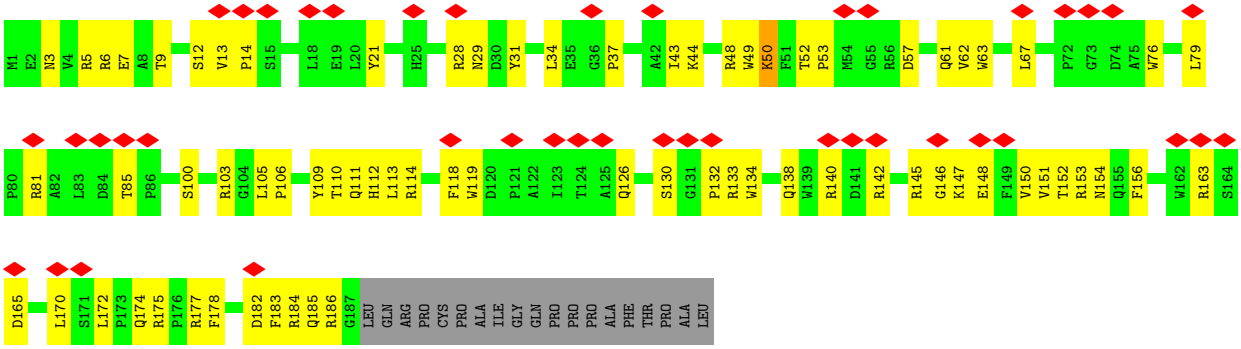




• Molecule 10: Tektin bundle-interacting protein 1

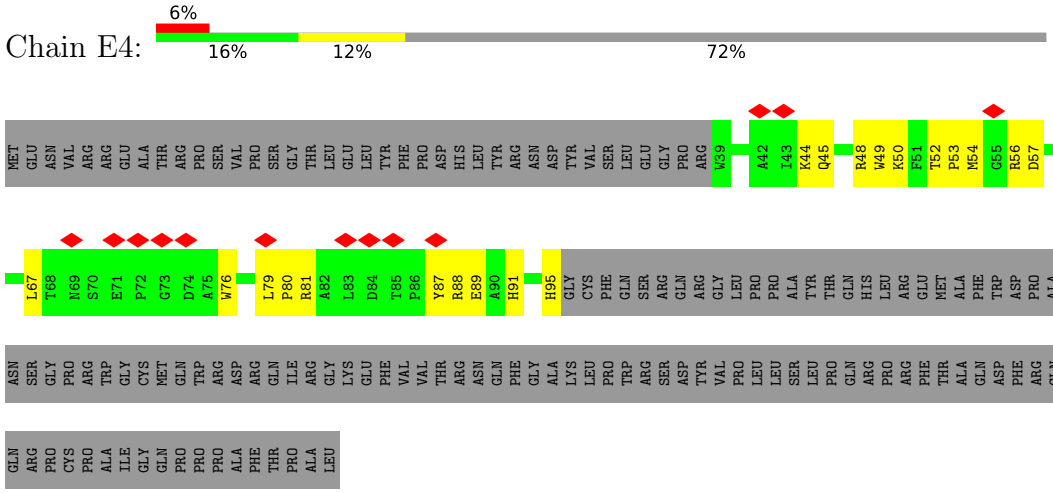
Chain E3:





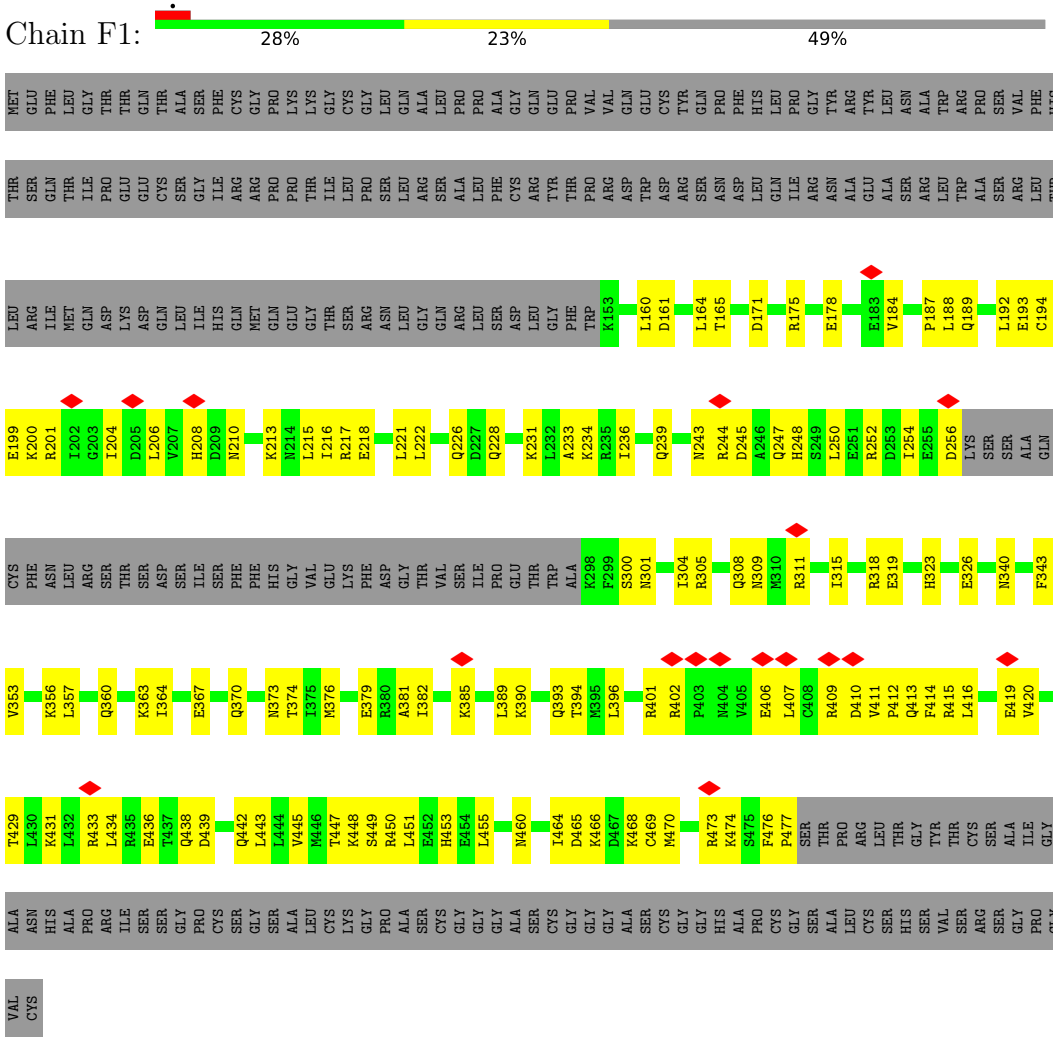
• Molecule 10: Tektin bundle-interacting protein 1

Chain E4:



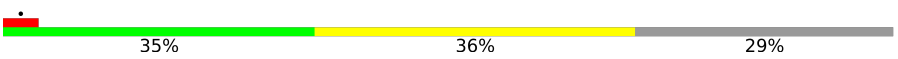
• Molecule 11: Tektin-5

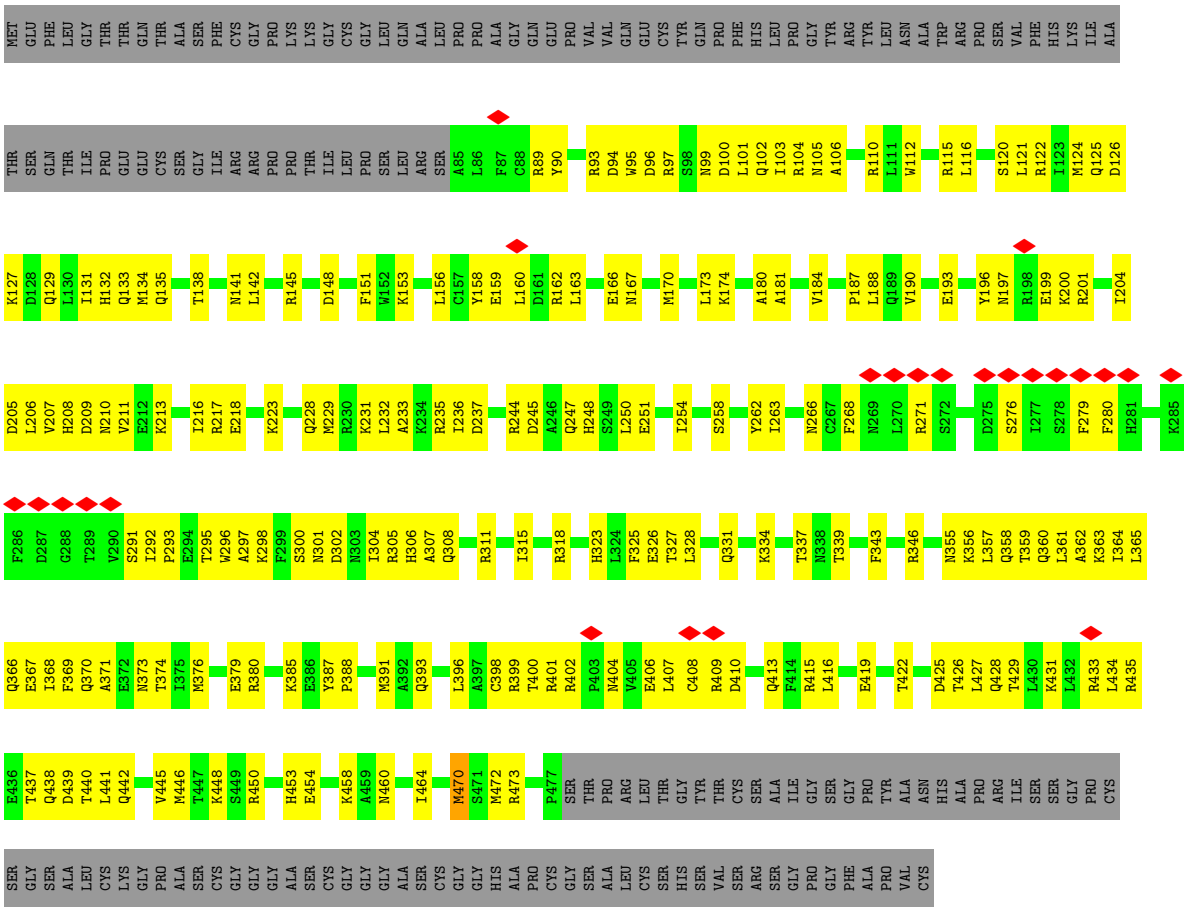
Chain F1:



• Molecule 11: Tektin-5

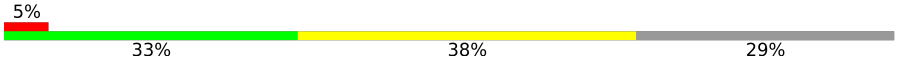
Chain F2:

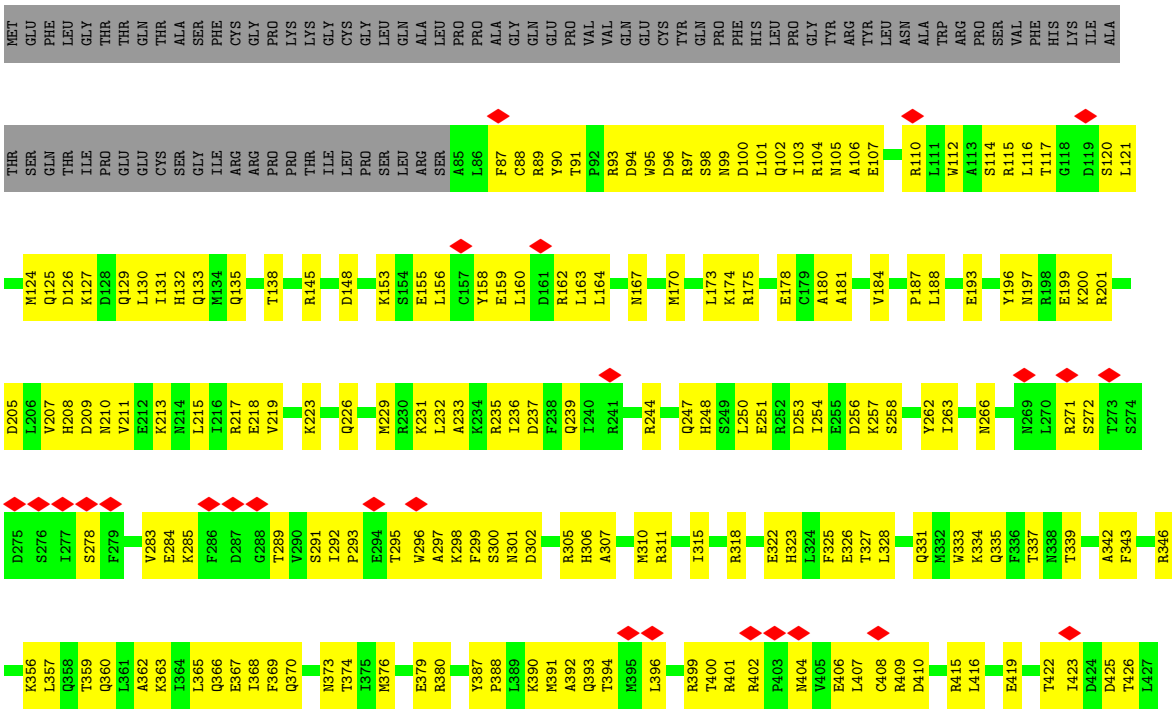


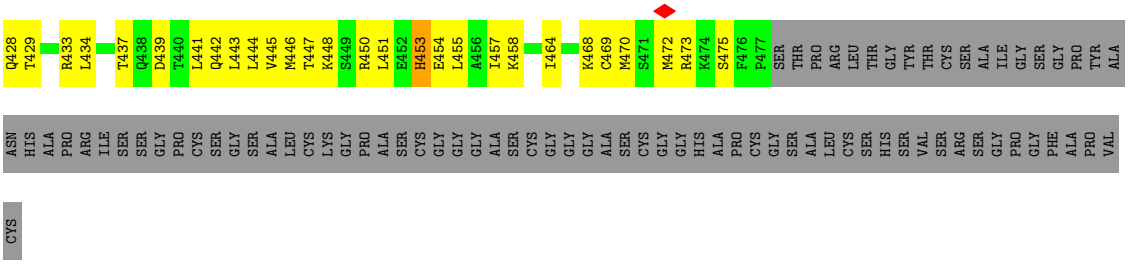


• Molecule 11: Tektin-5

Chain F3:



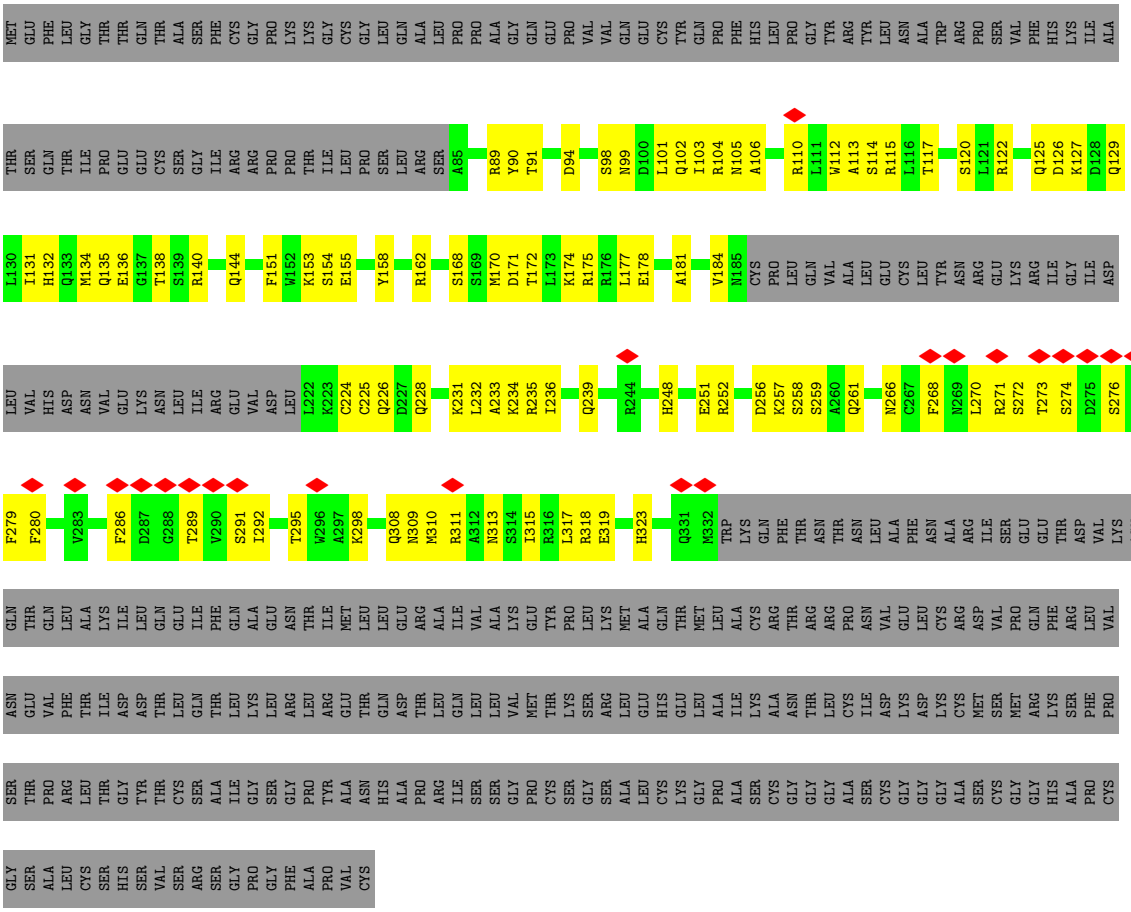




• Molecule 11: Tektin-5

Chain F4:

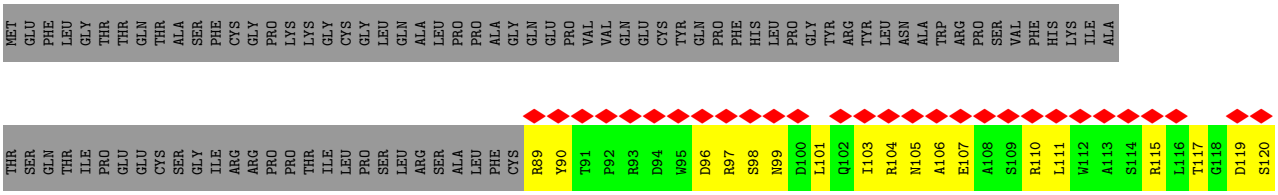


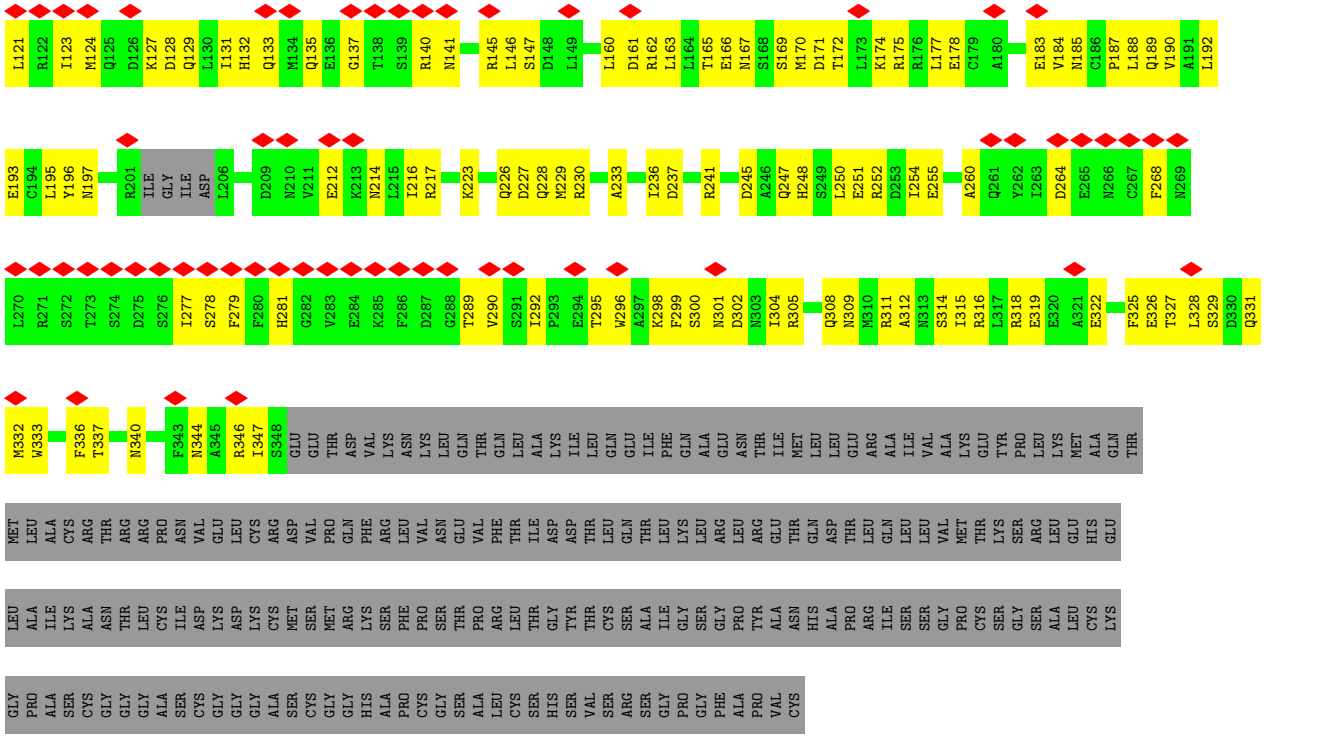


• Molecule 11: Tektin-5

Chain F5:

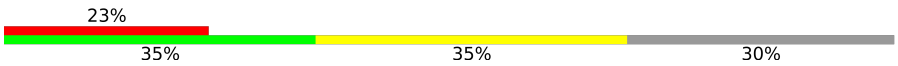


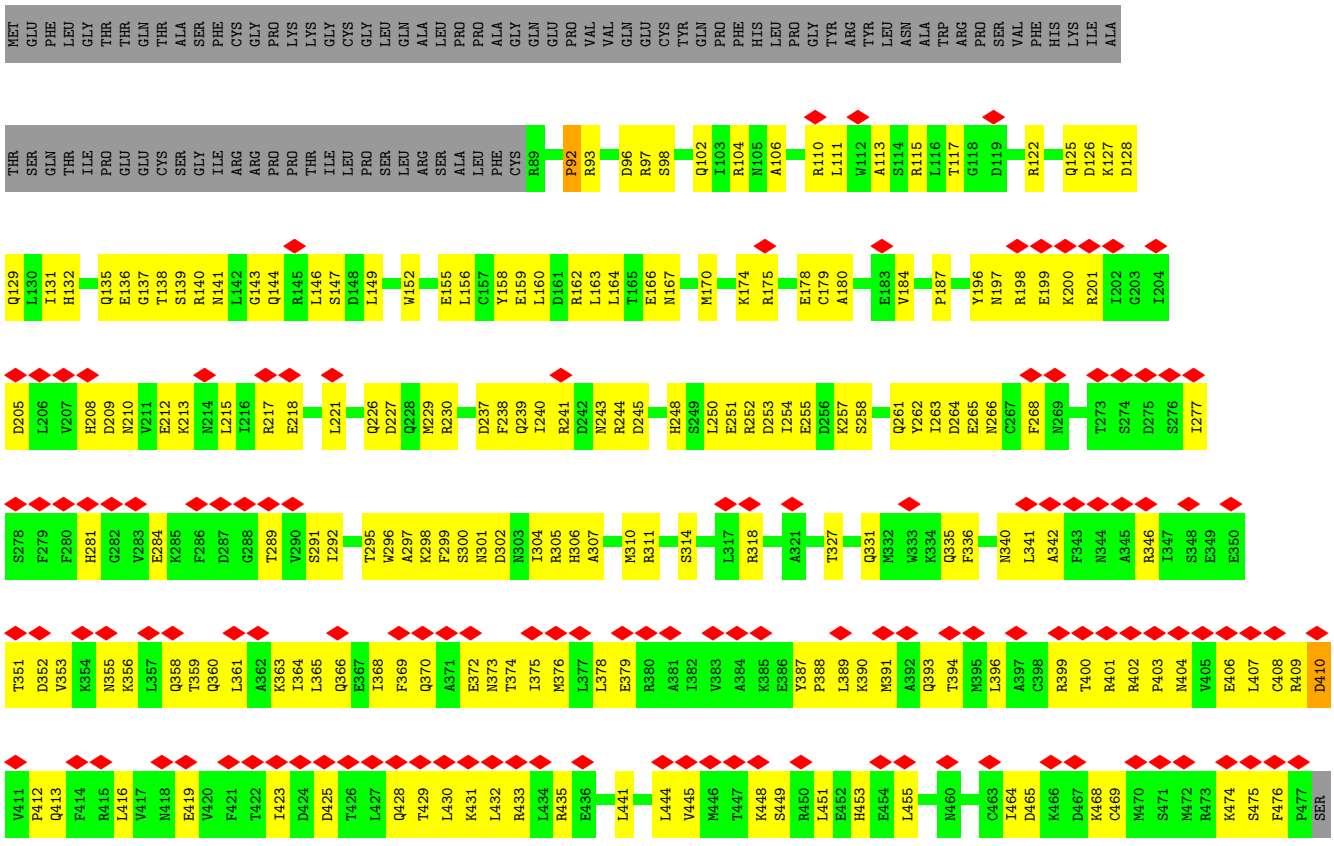


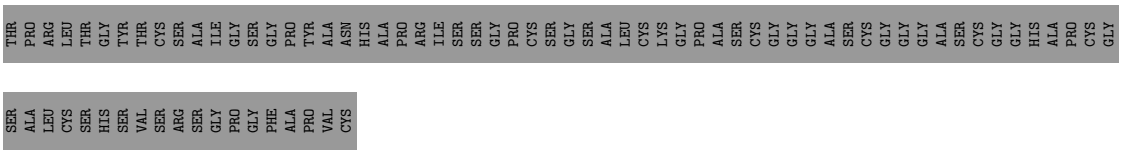


• Molecule 11: Tektin-5

Chain F6:

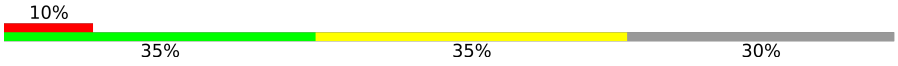


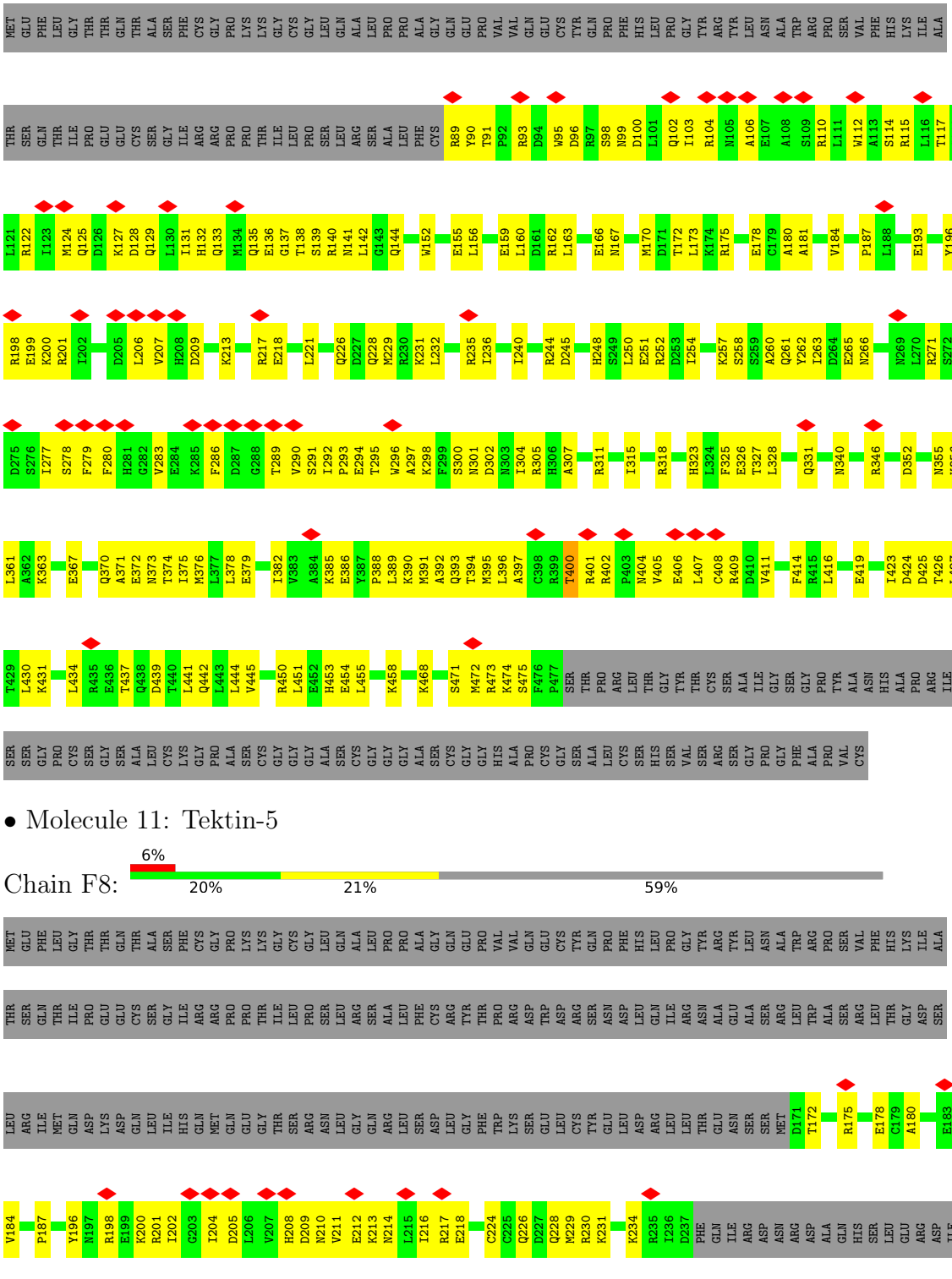




• Molecule 11: Tektin-5

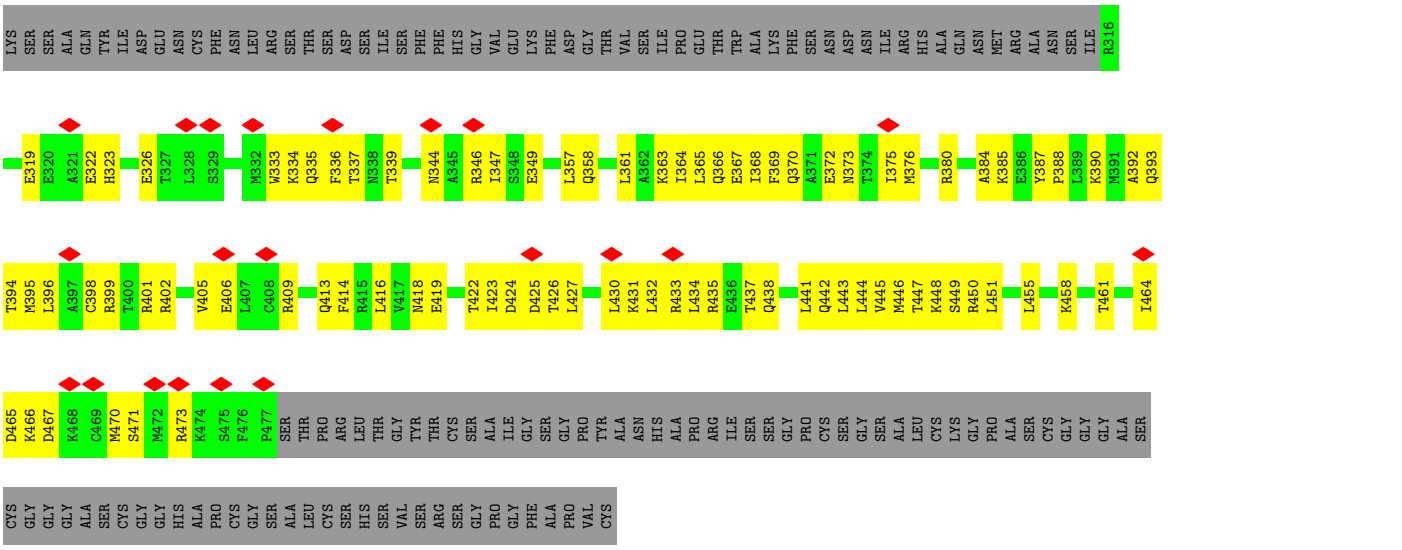
Chain F7:





• Molecule 11: Tektin-5

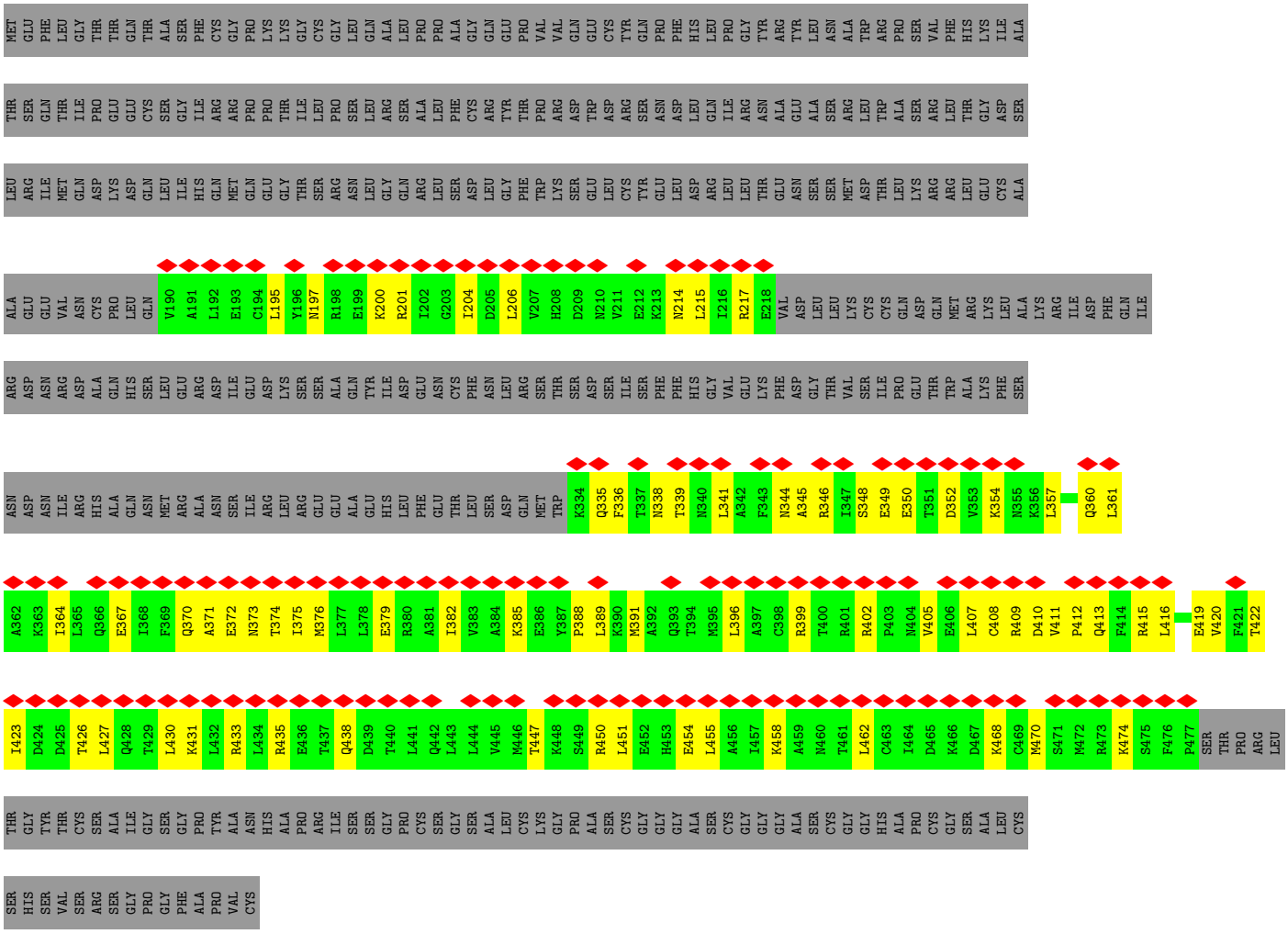
Chain F8:



• Molecule 11: Tektin-5

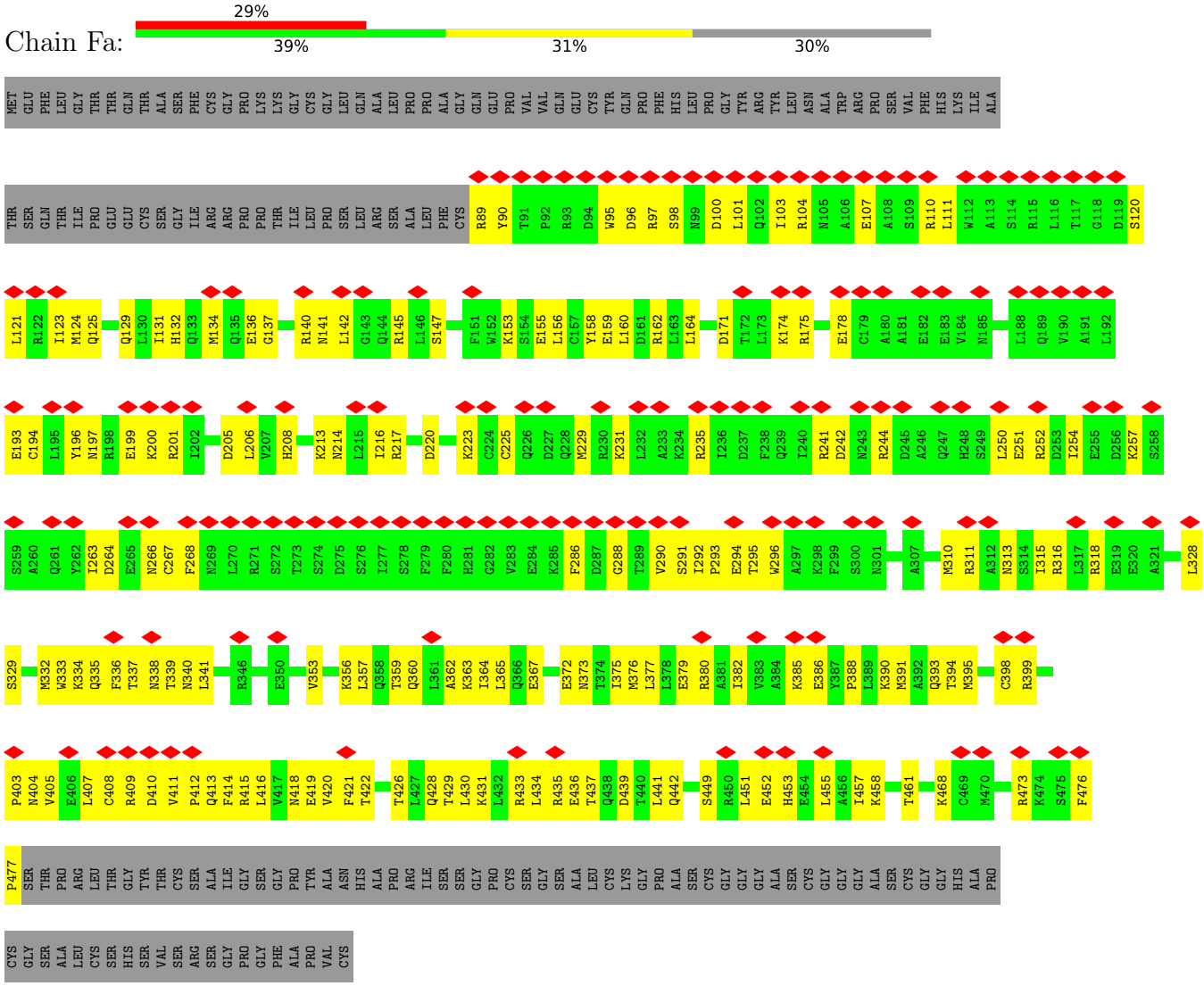
Chain F9:





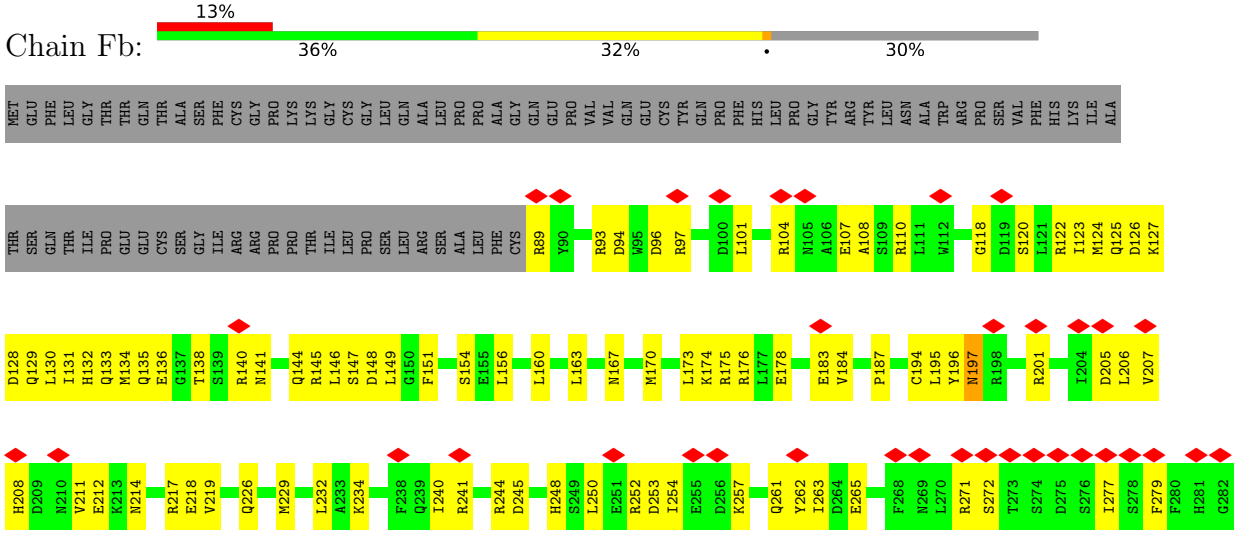
• Molecule 11: Tektin-5

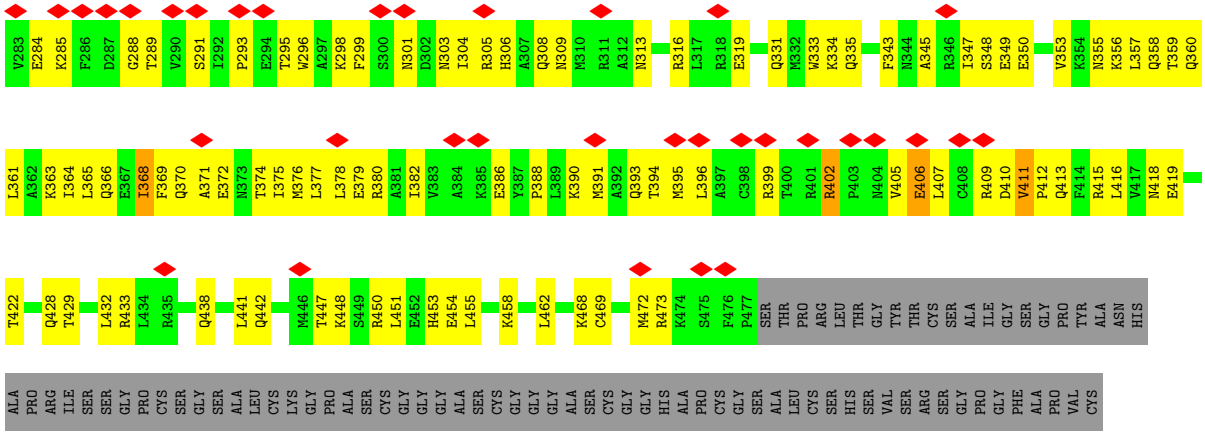
Chain Fa:



• Molecule 11: Tektin-5

Chain Fb:

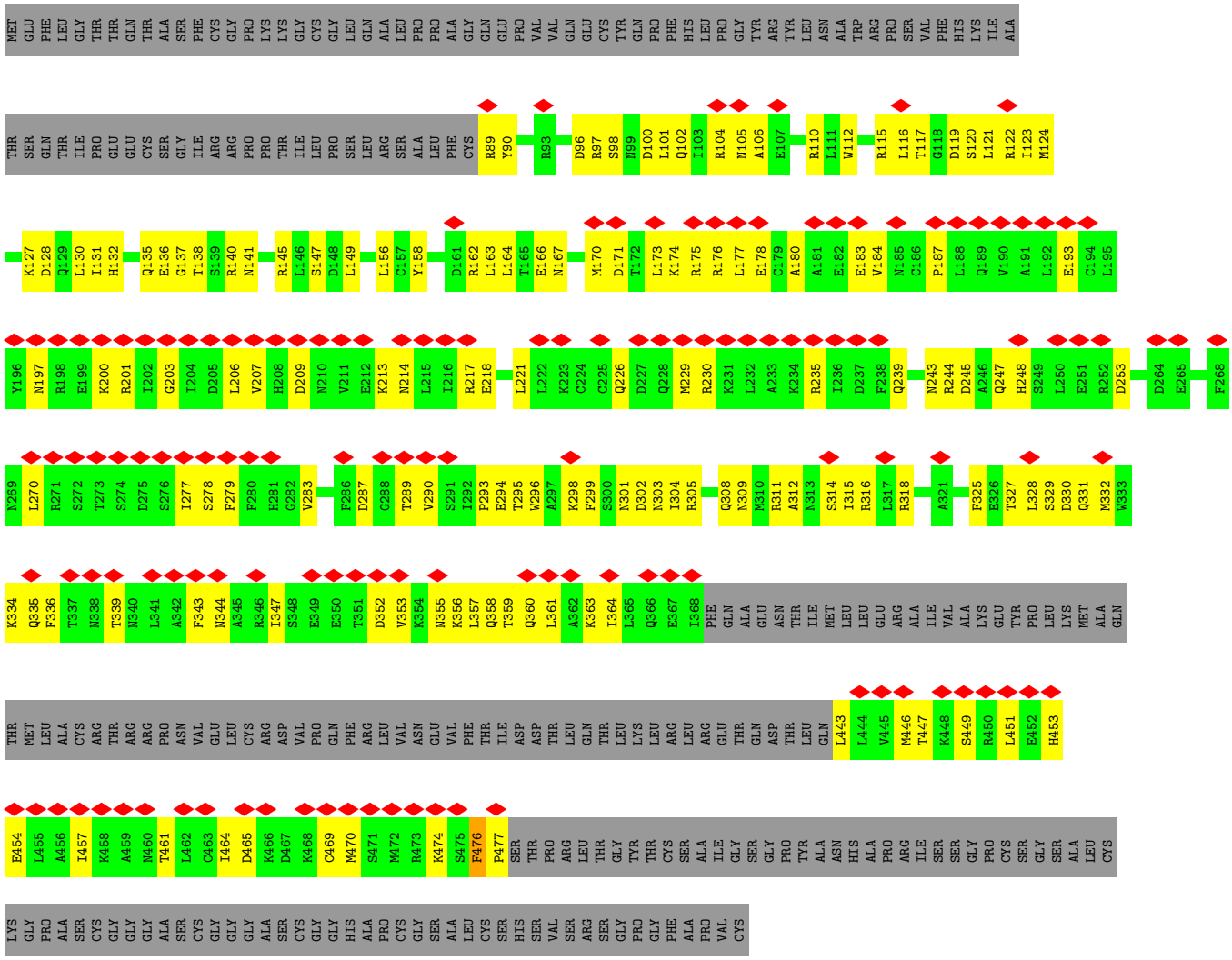




• Molecule 11: Tektin-5

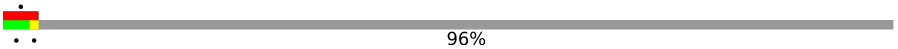
Chain Fc:

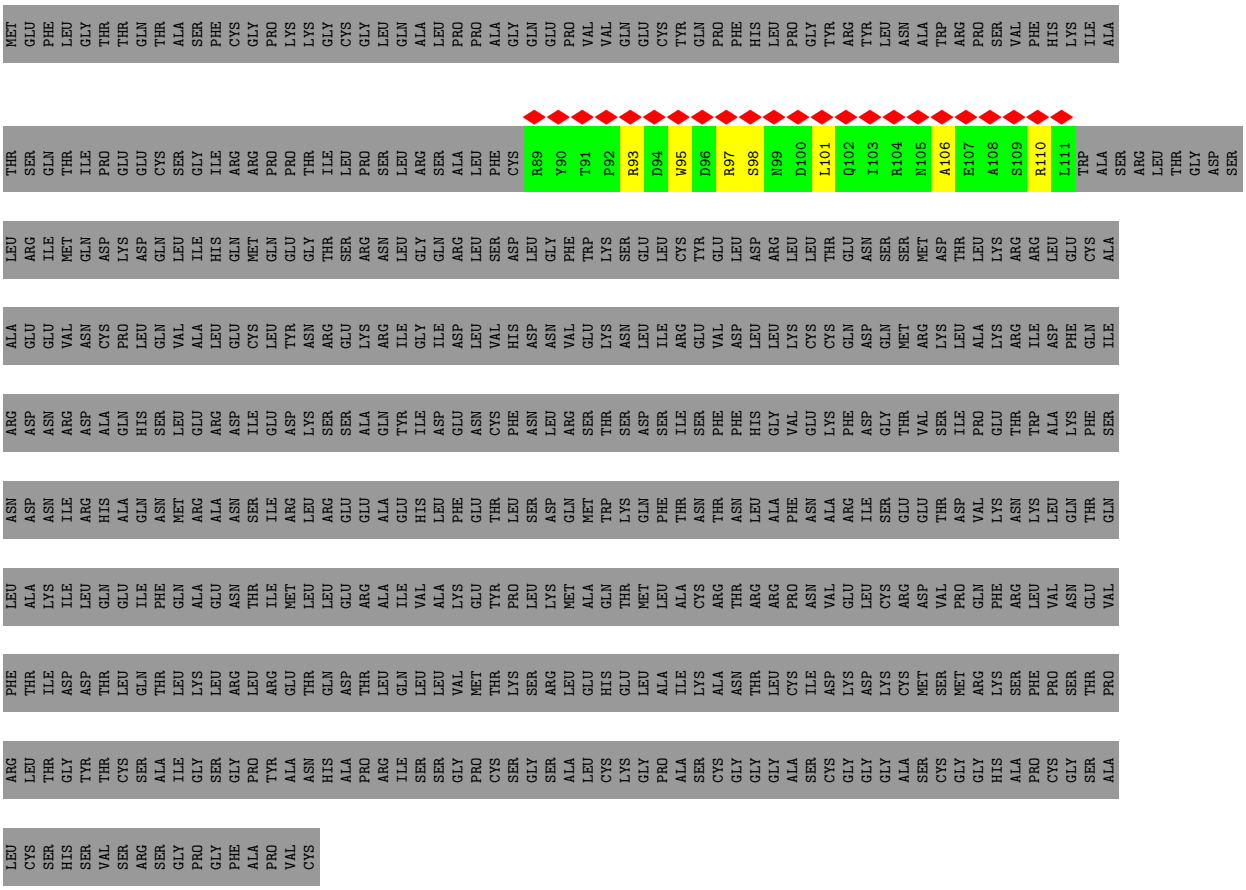




• Molecule 11: Tektin-5

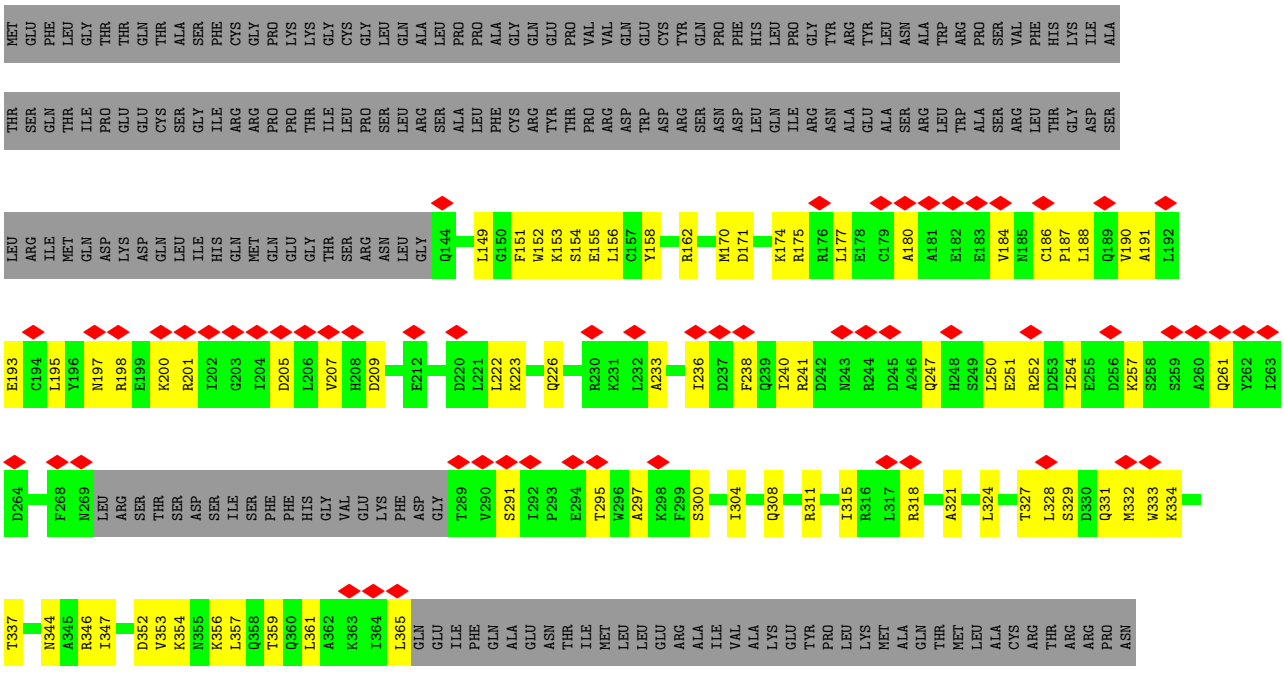
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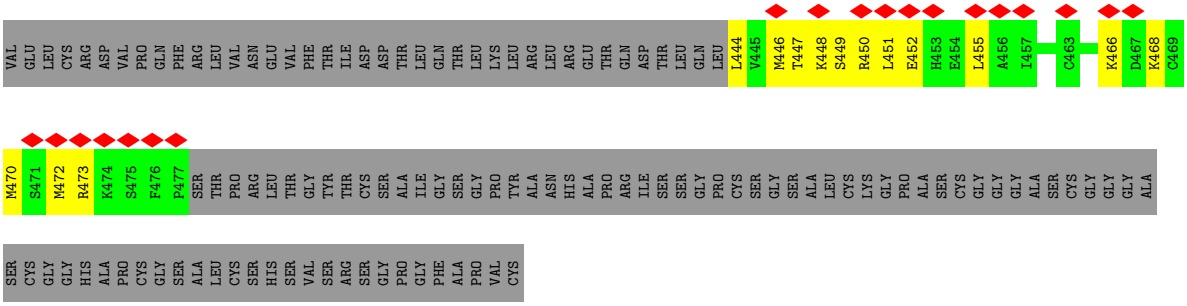




• Molecule 11: Tektin-5





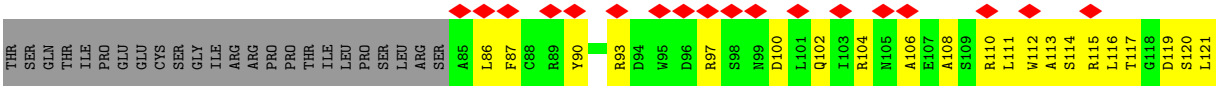


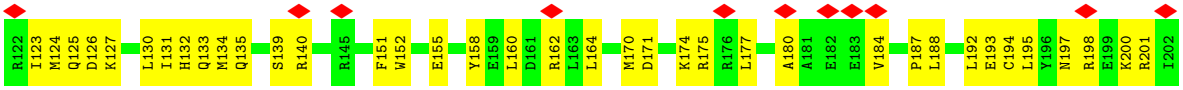
• Molecule 11: Tektin-5

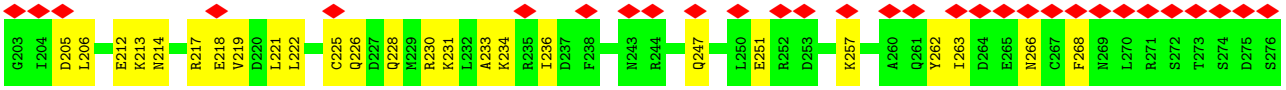
Chain Ff:

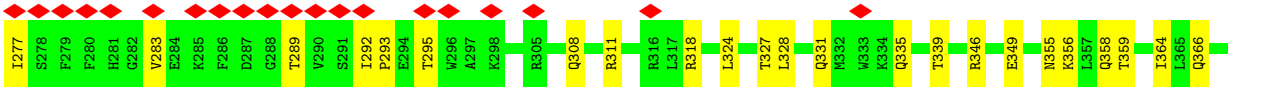


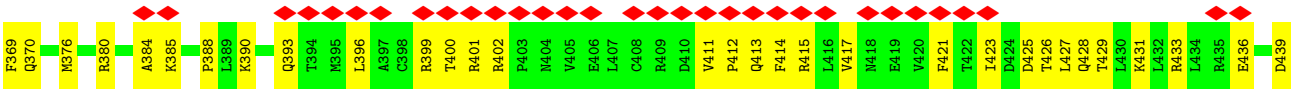


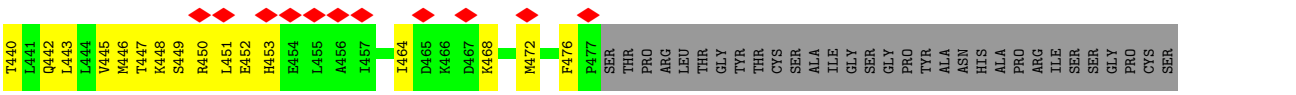


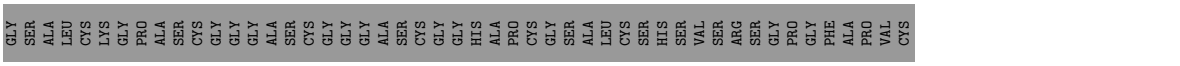






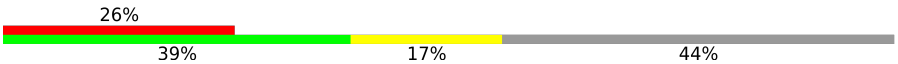


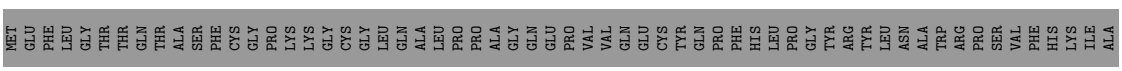




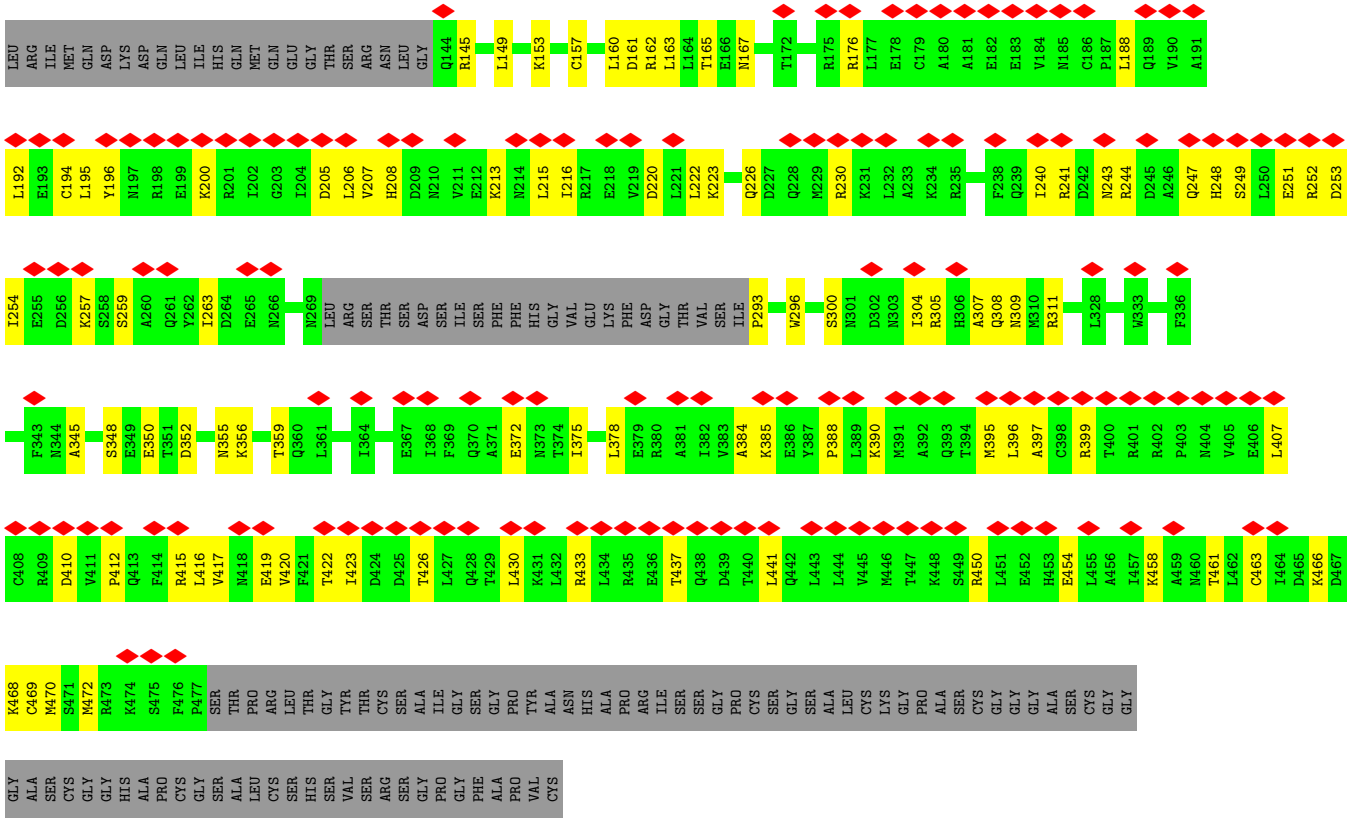
• Molecule 11: Tektin-5

Chain Fg:





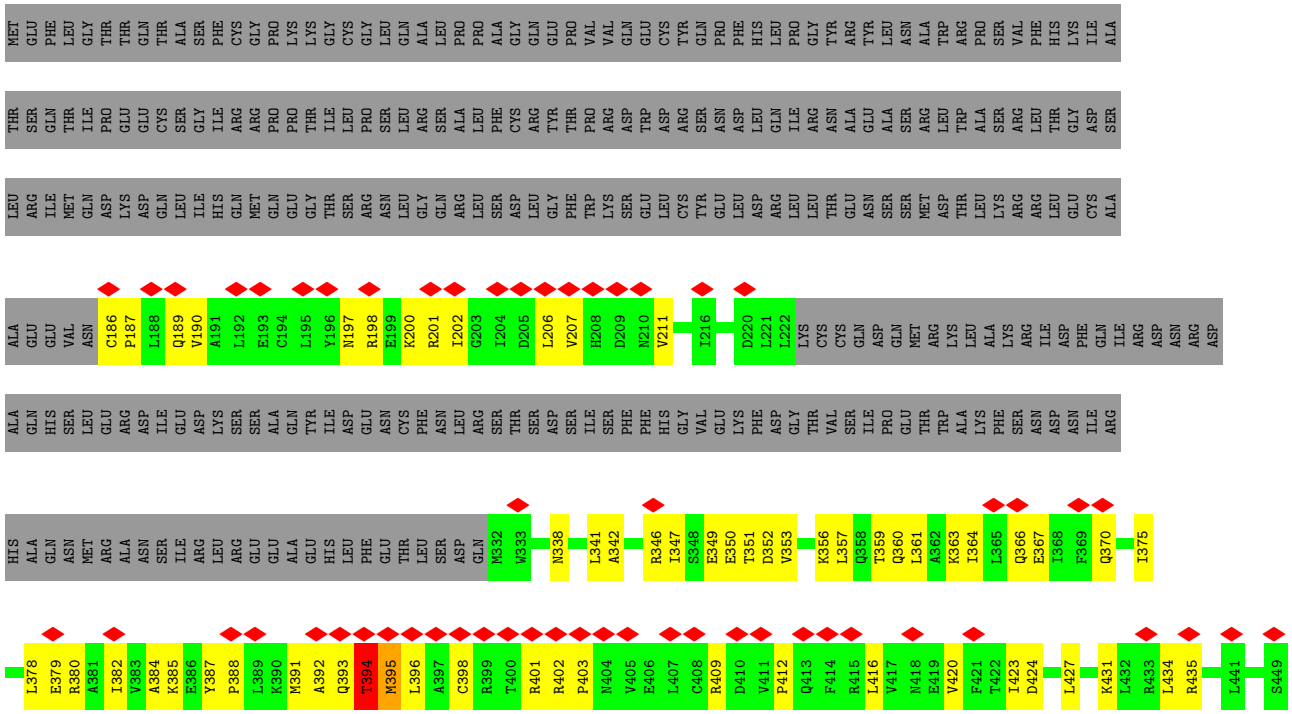


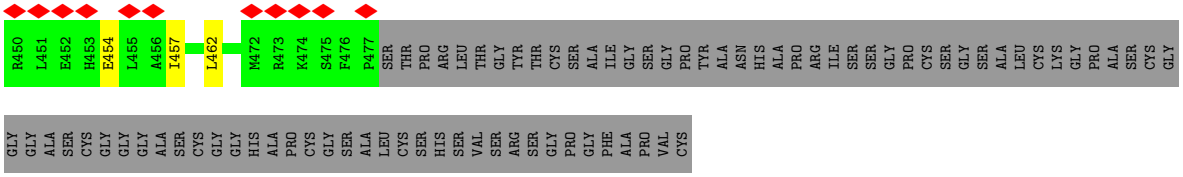


• Molecule 11: Tektin-5

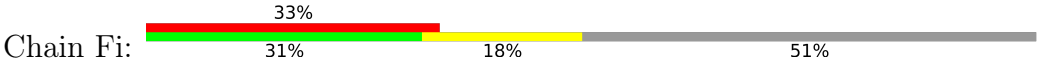
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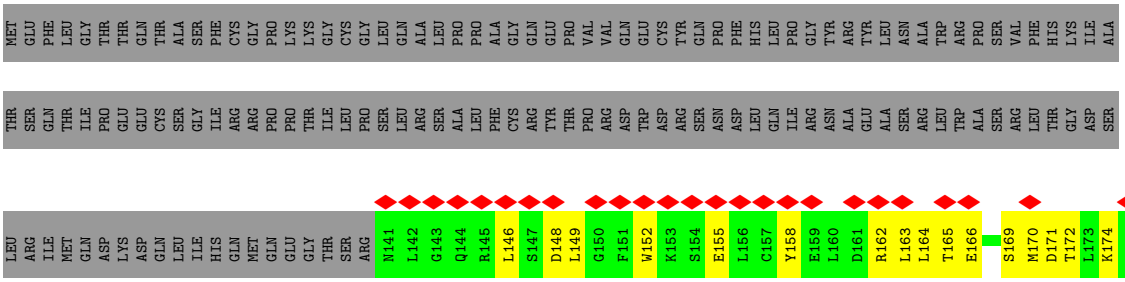




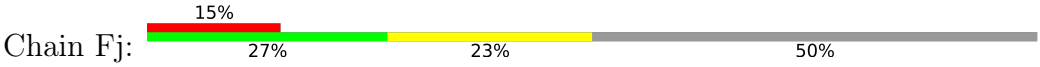


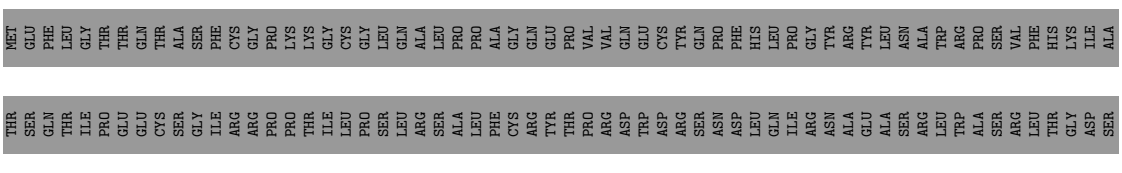
• Molecule 11: Tektin-5

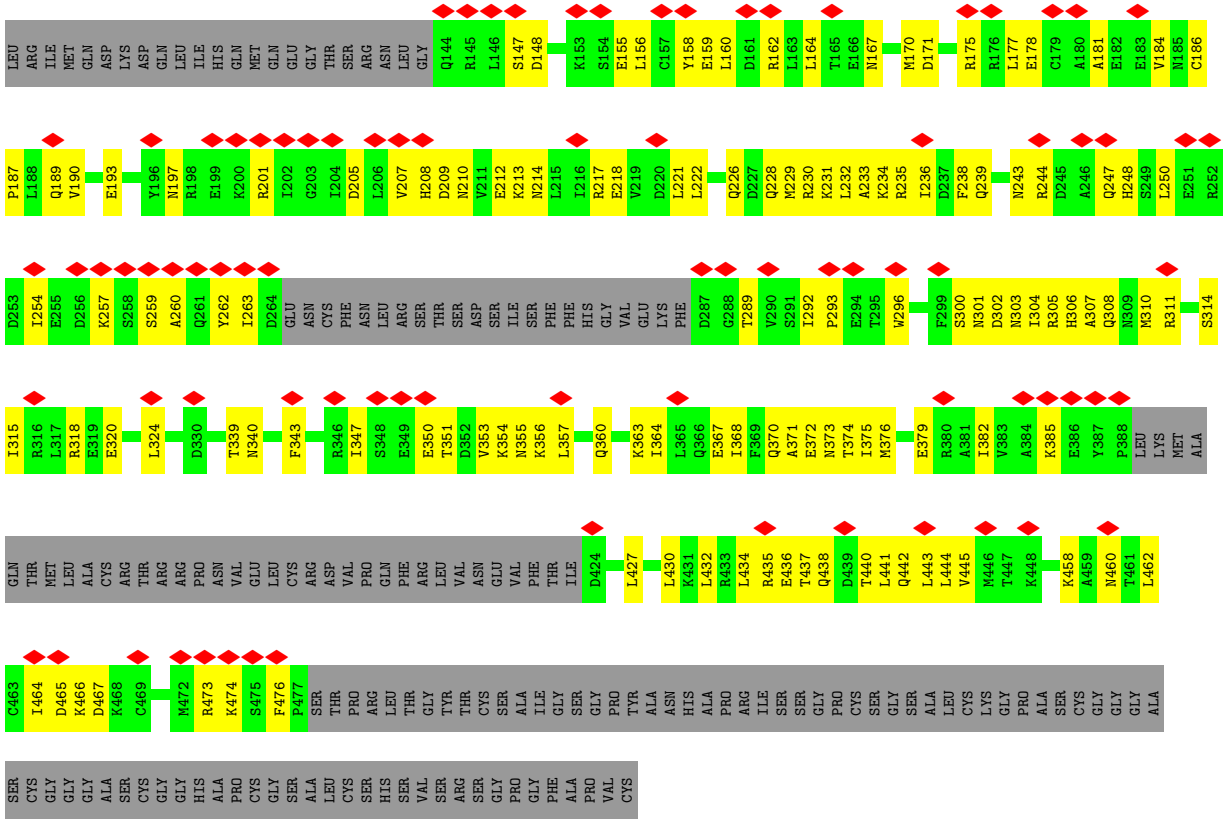




• Molecule 11: Tektin-5

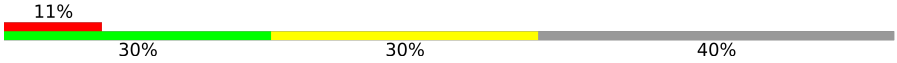


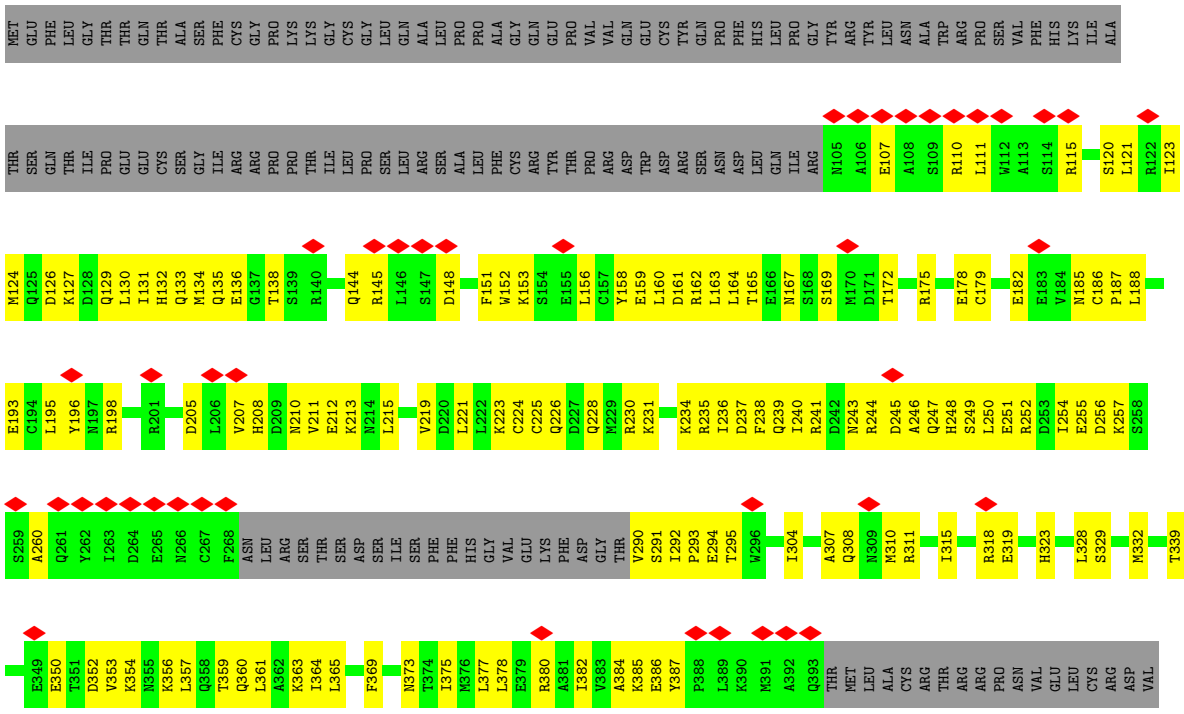


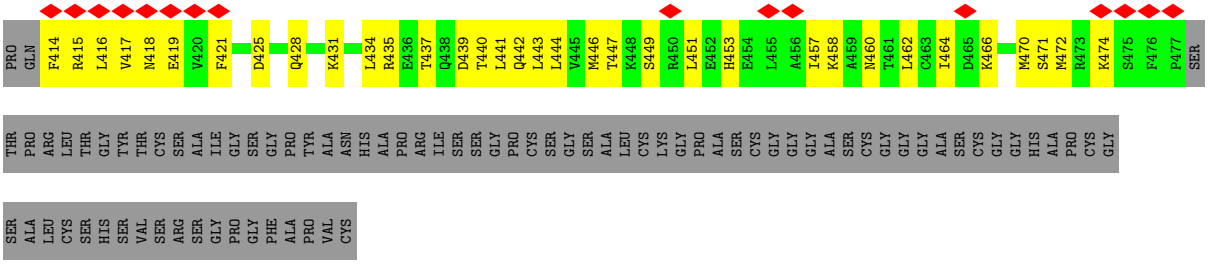


• Molecule 11: Tektin-5

Chain Fk:

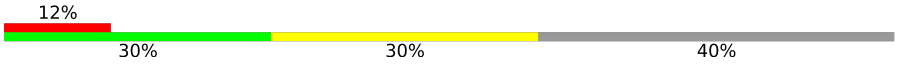


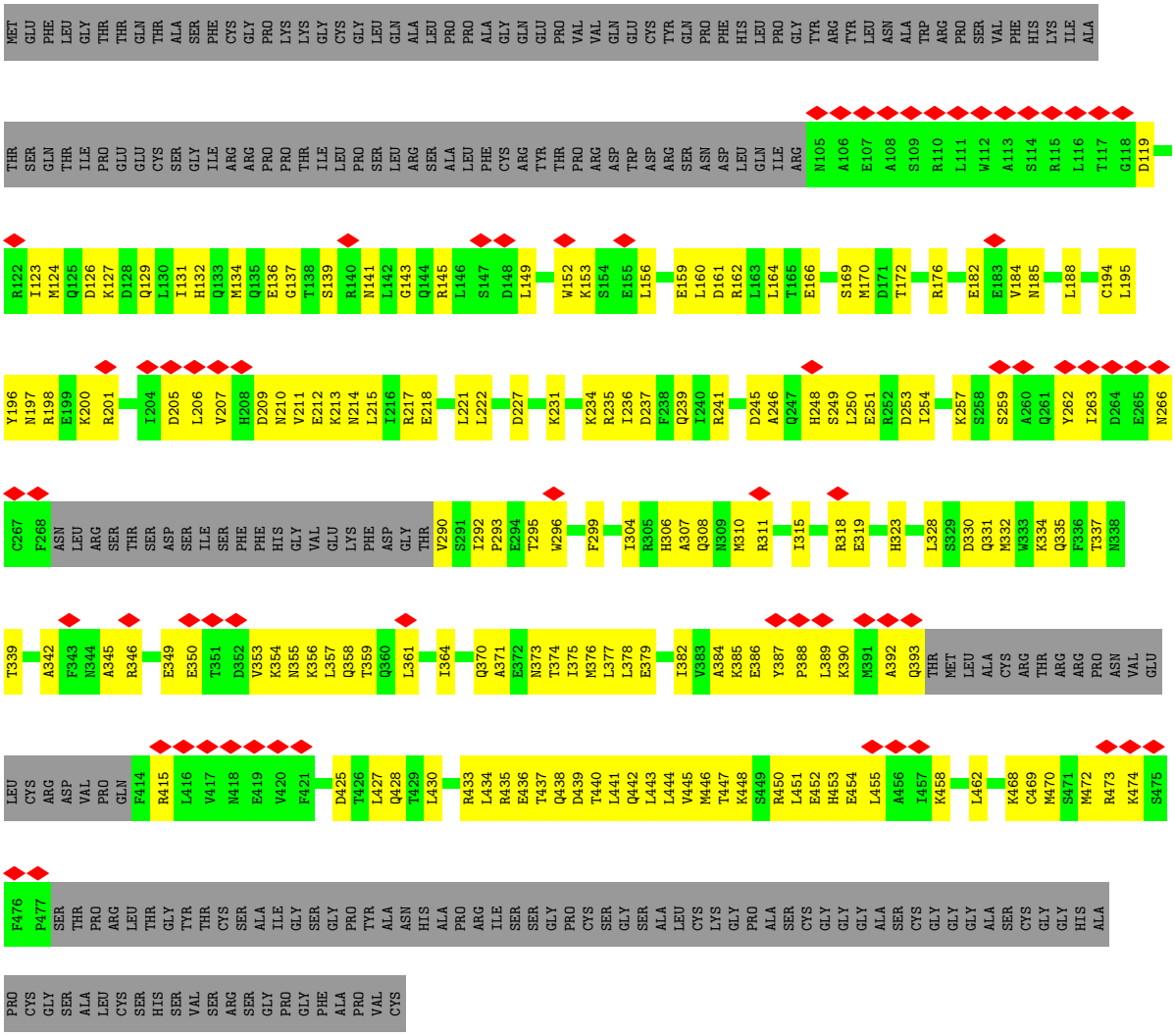




• Molecule 11: Tektin-5

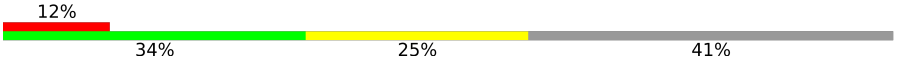
Chain Fl:



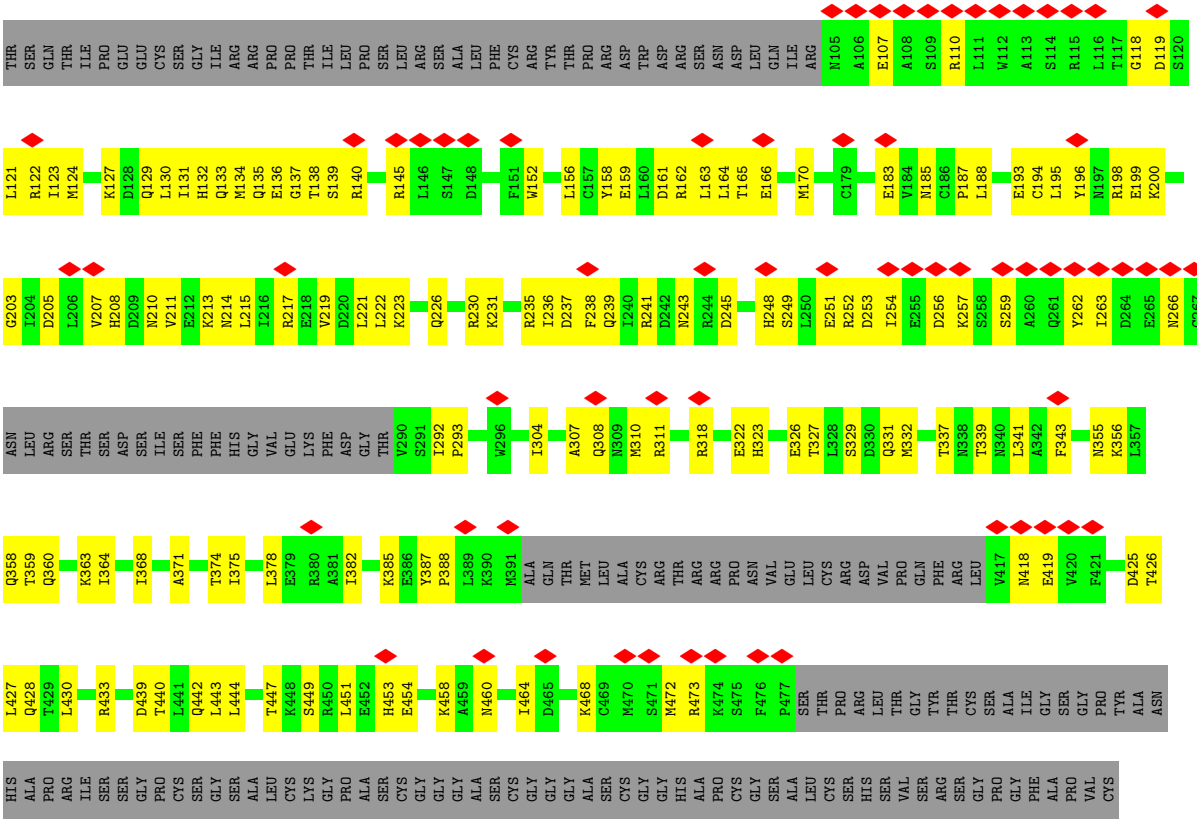


• Molecule 11: Tektin-5

Chain Fm:



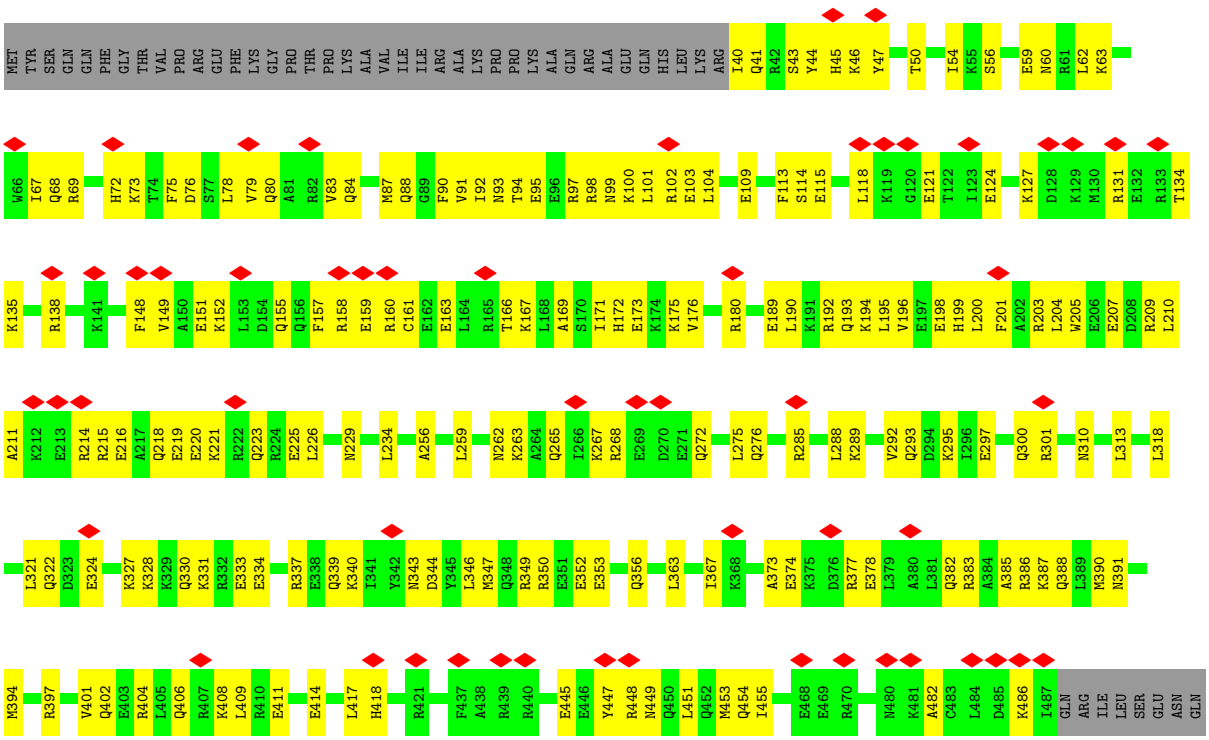




• Molecule 12: Cilia- and flagella-associated protein 53

Chain G:

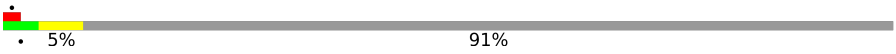


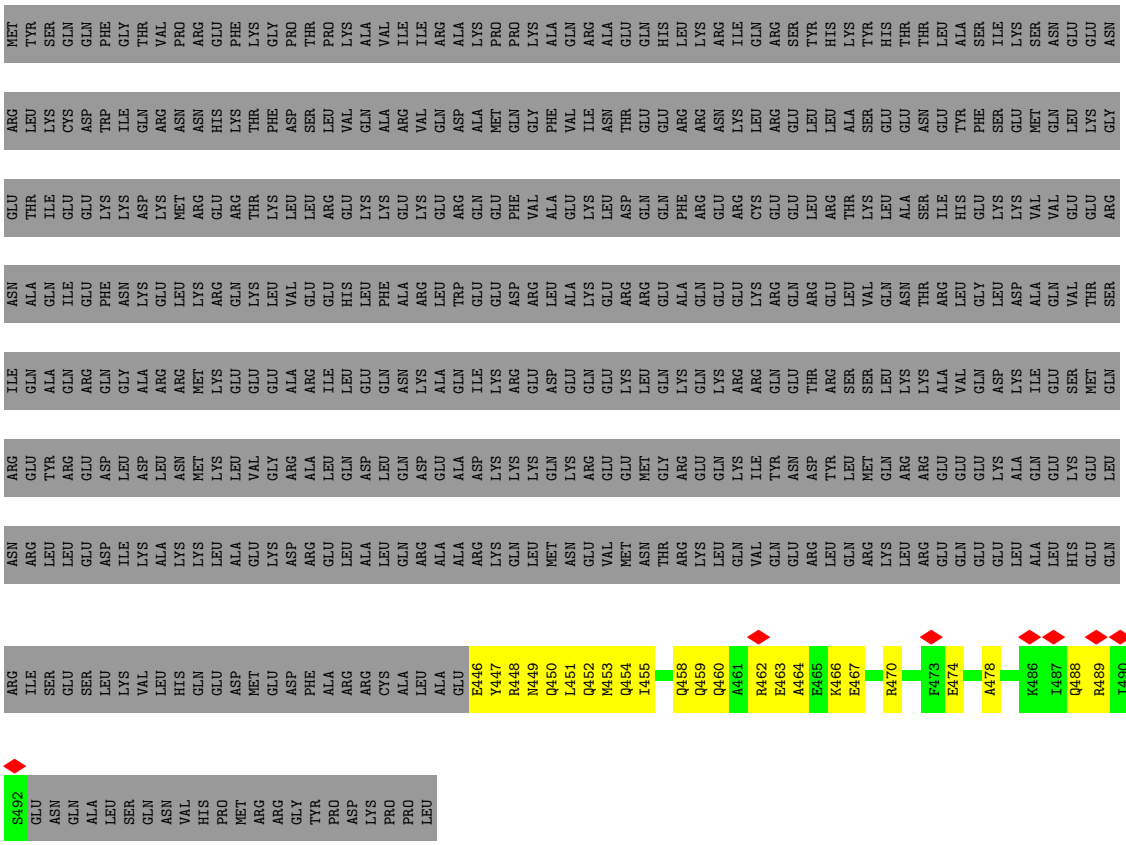




• Molecule 12: Cilia- and flagella-associated protein 53

Chain H:

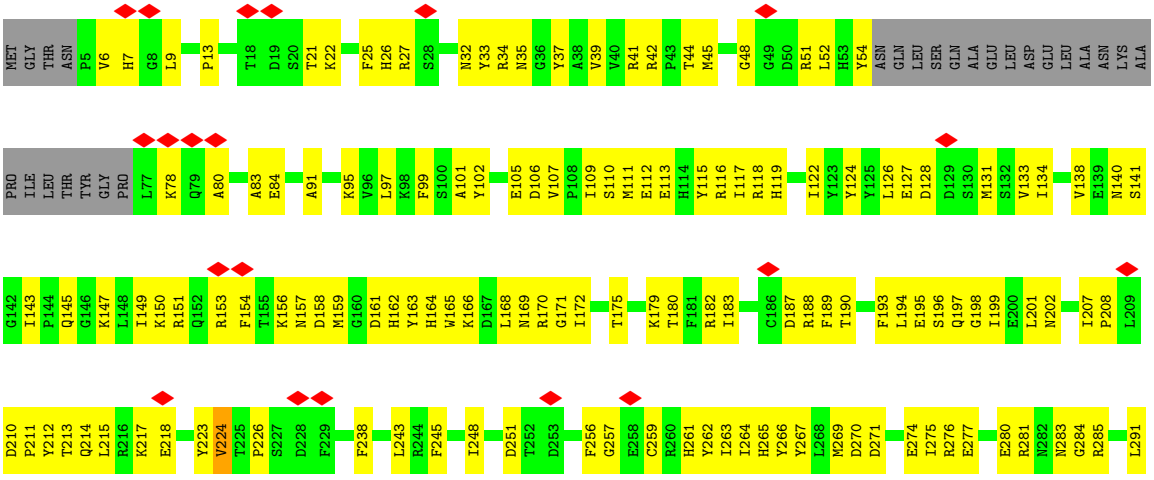


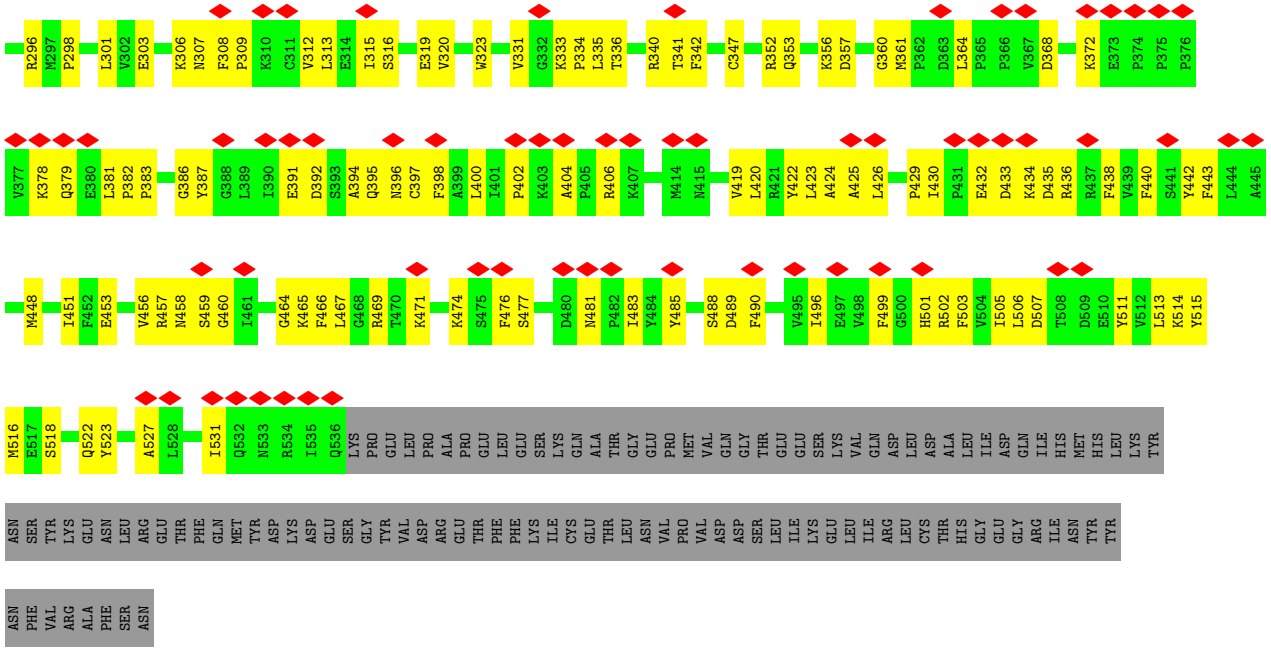


• Molecule 13: EF-hand domain-containing protein 1

Chain G1:



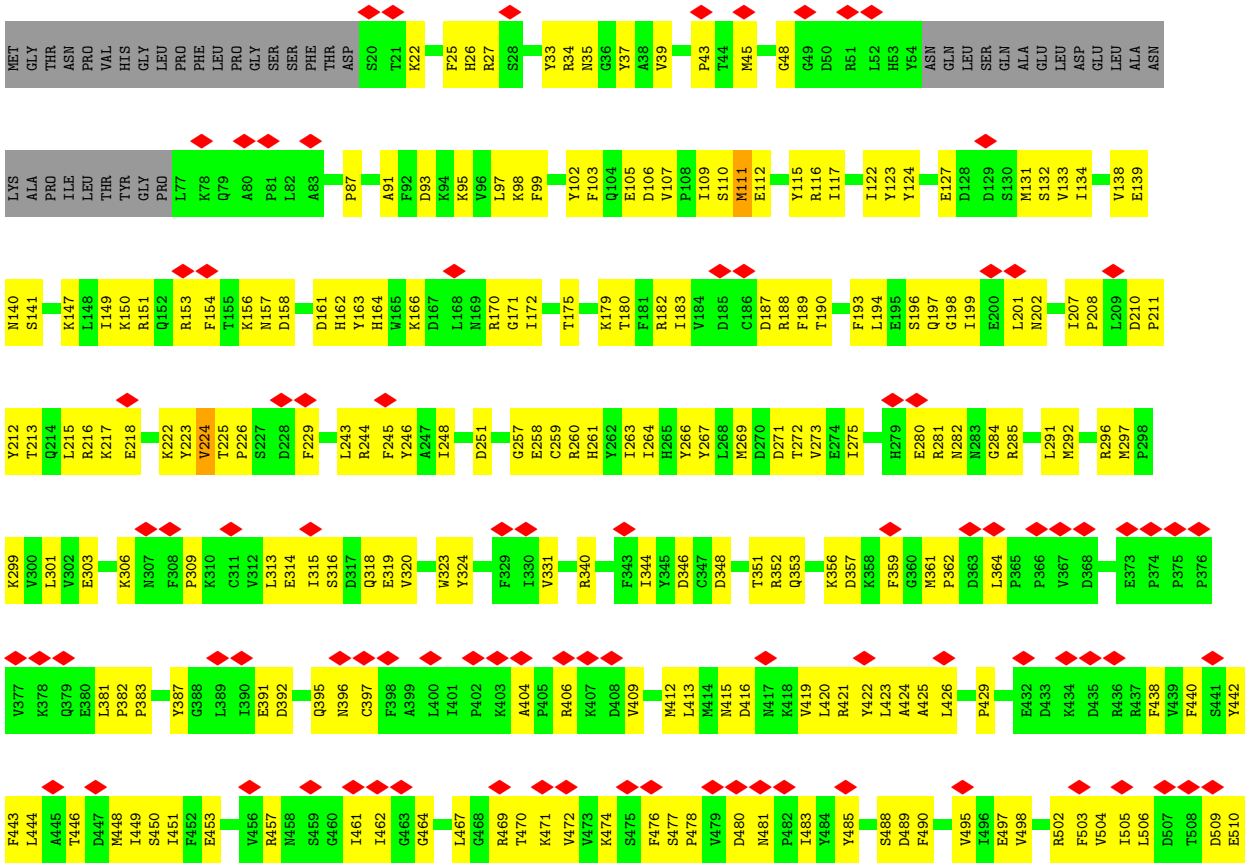


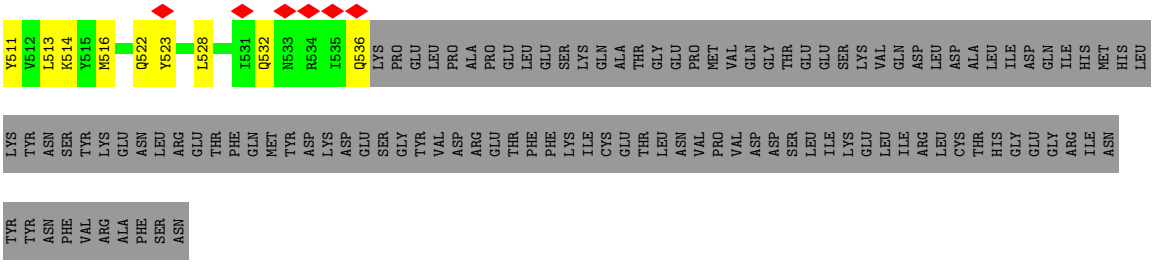


• Molecule 13: EF-hand domain-containing protein 1

Chain G2:



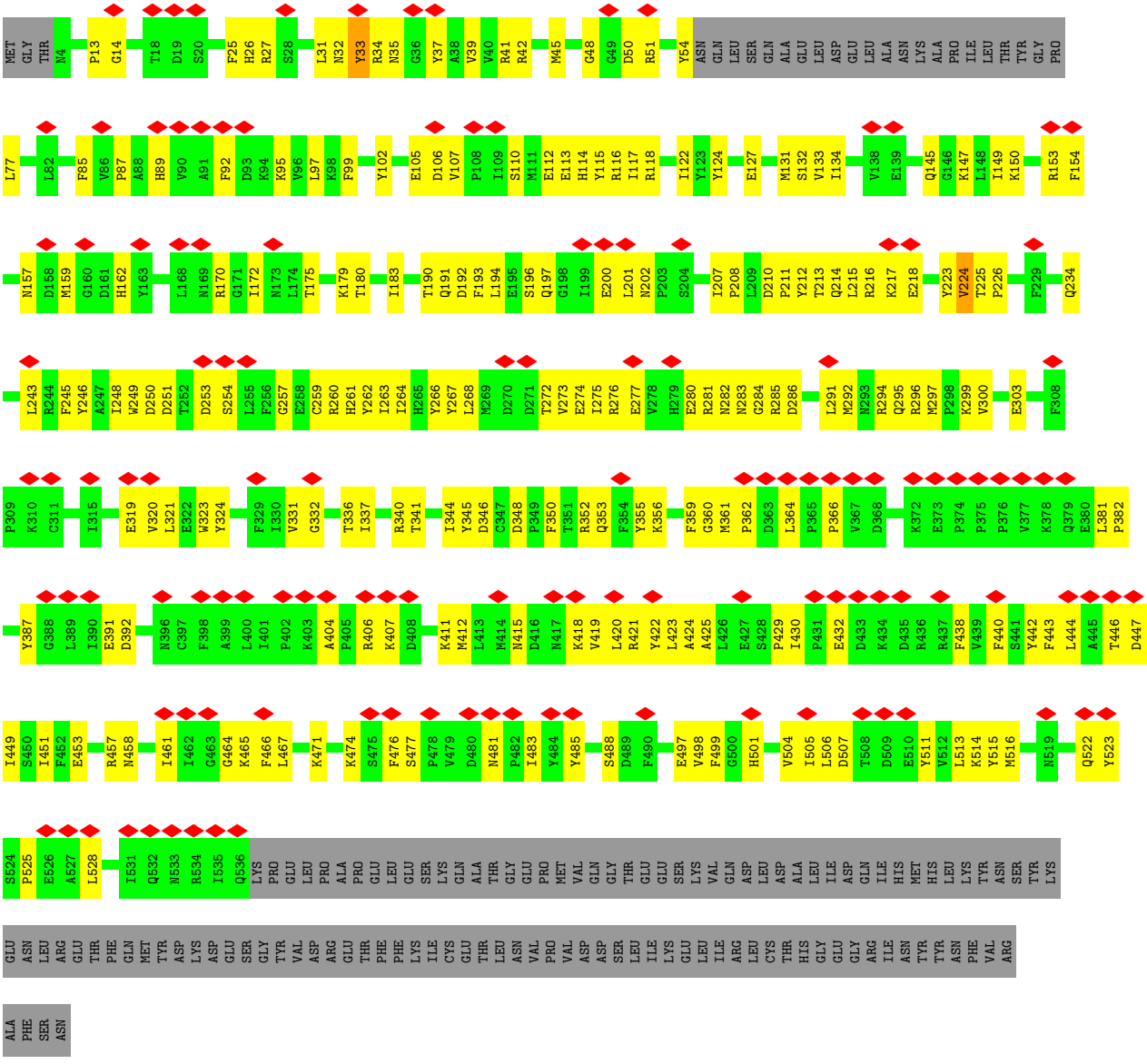




• Molecule 13: EF-hand domain-containing protein 1

Chain G3:





• Molecule 14: EF-hand domain-containing family member C2

Chain G4:

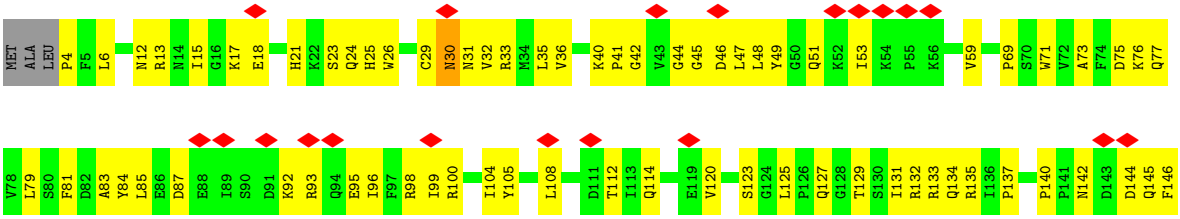


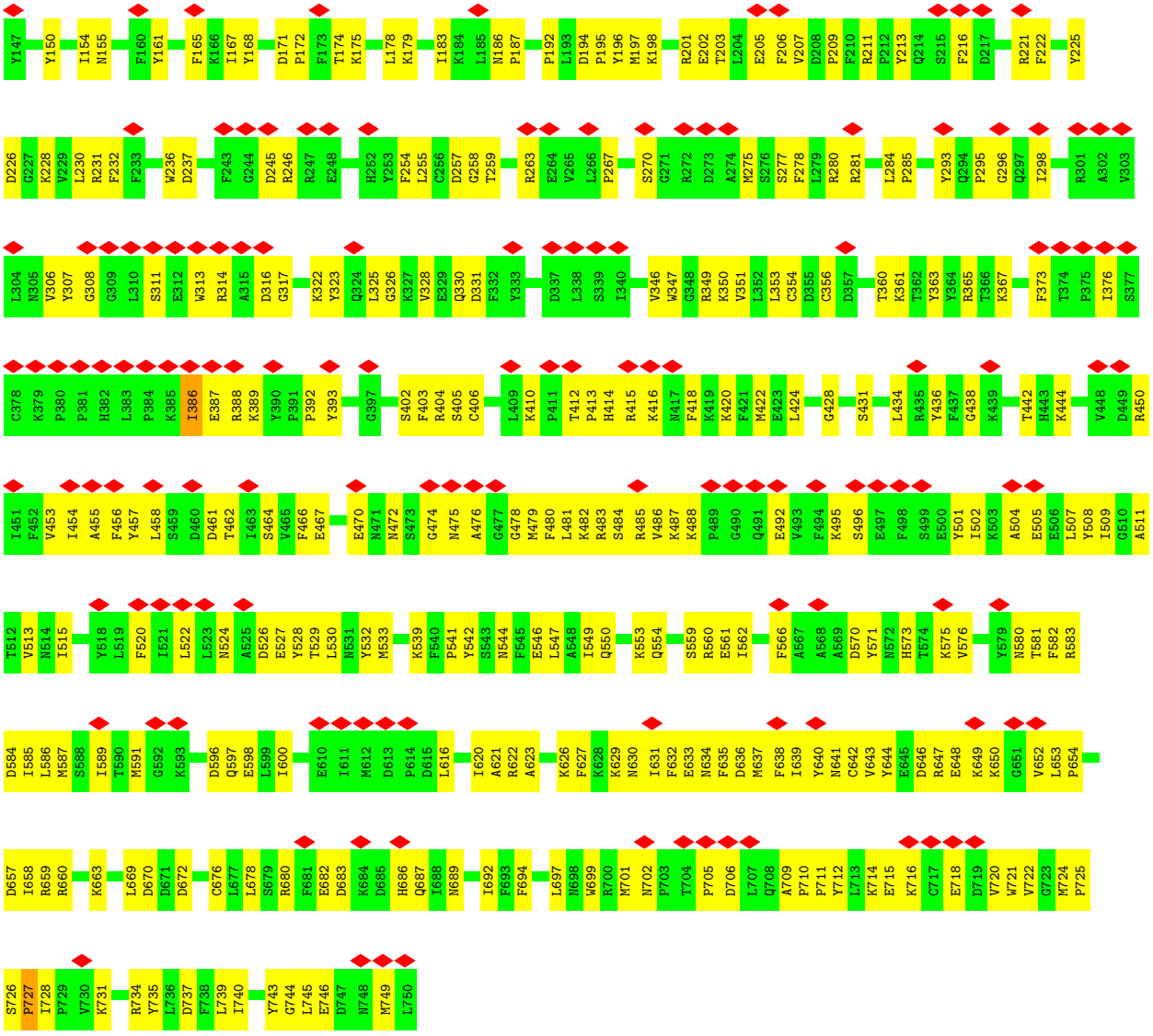


• Molecule 14: EF-hand domain-containing family member C2

Chain G5:



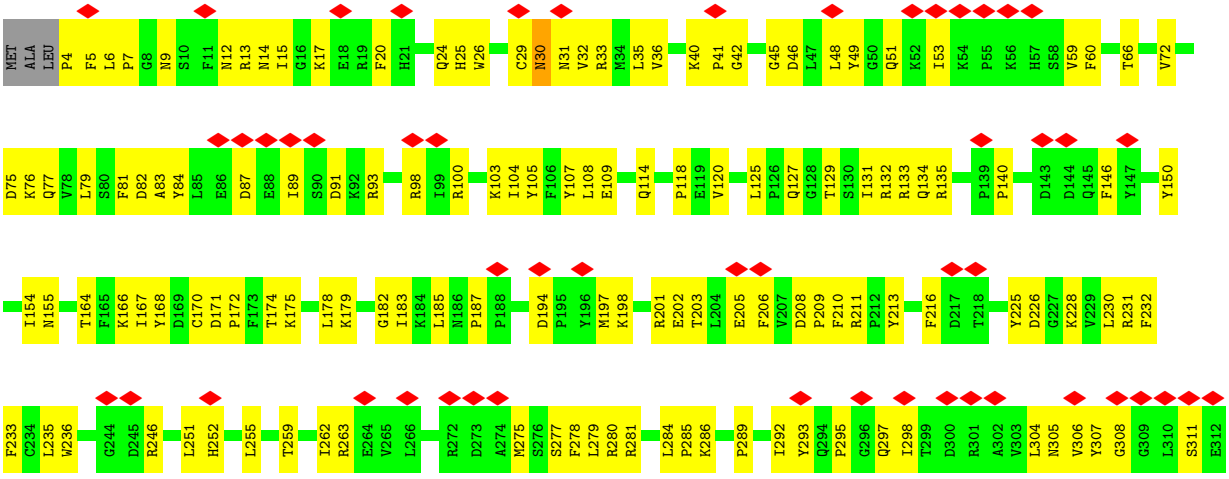


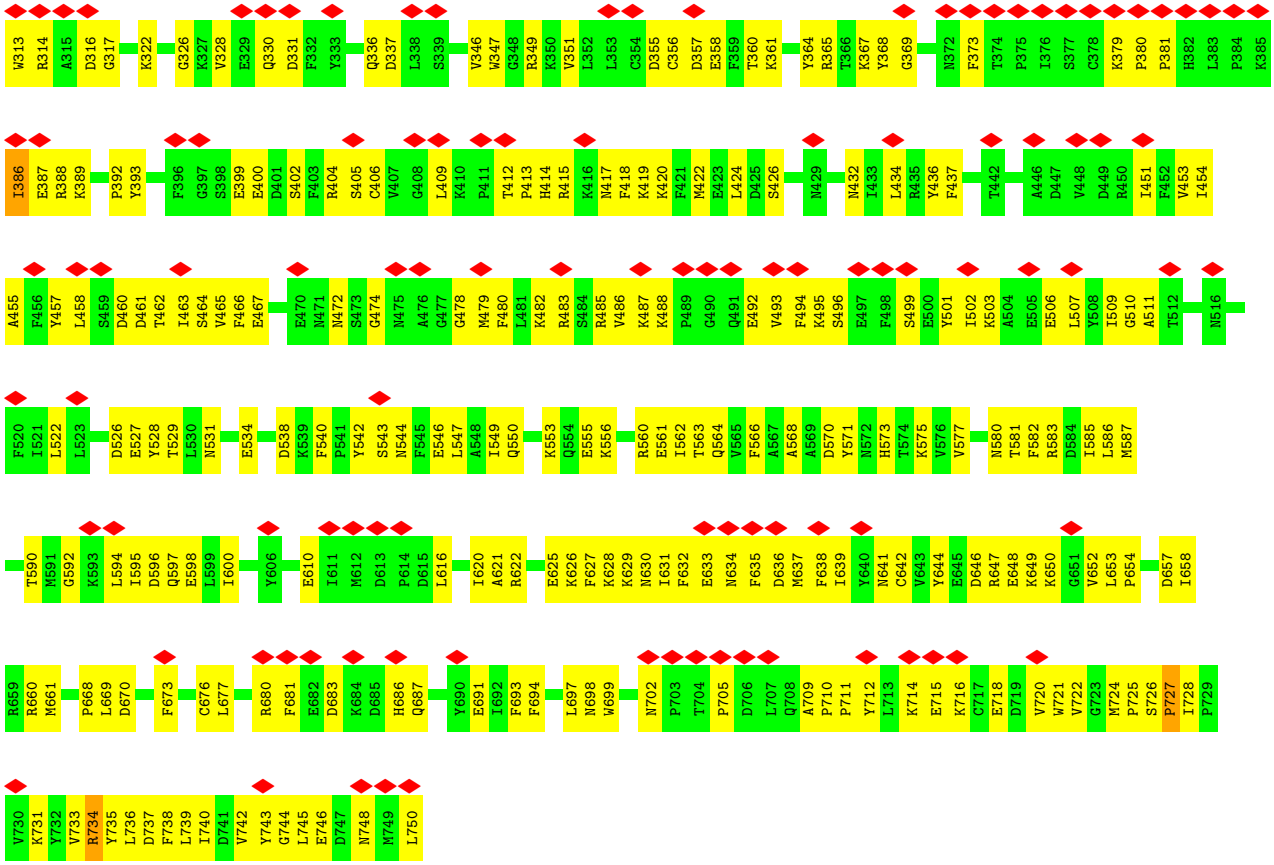


• Molecule 14: EF-hand domain-containing family member C2

Chain G6:



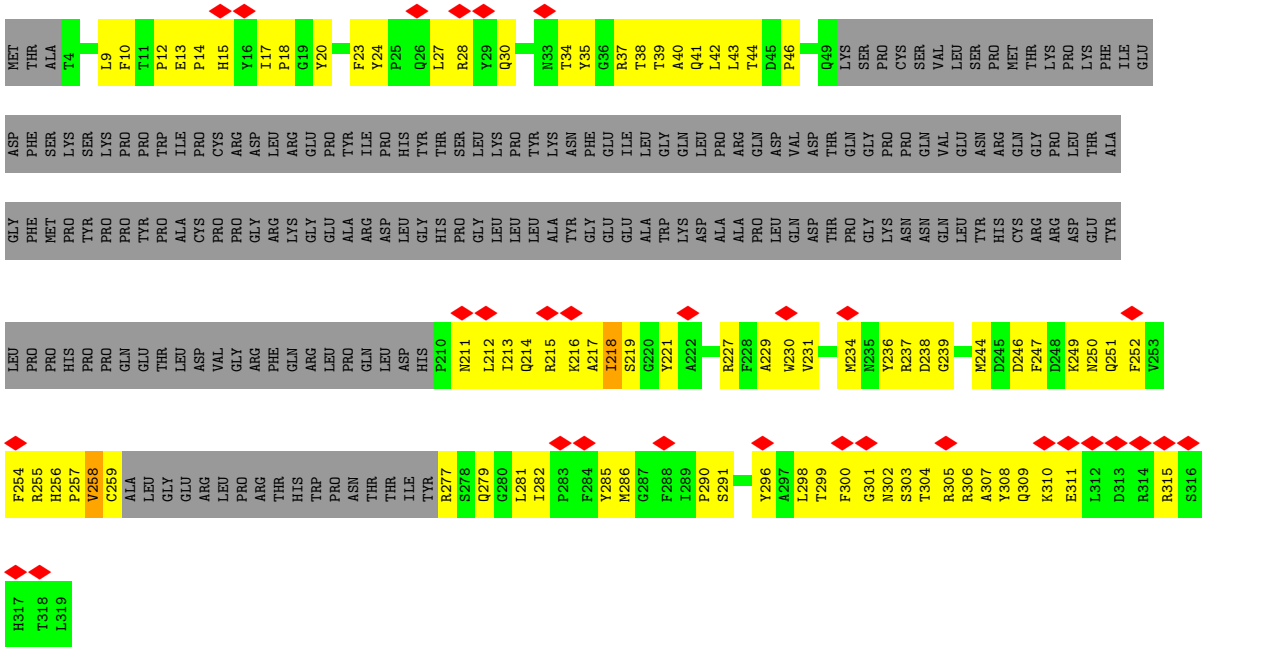




• Molecule 15: Protein FAM166A

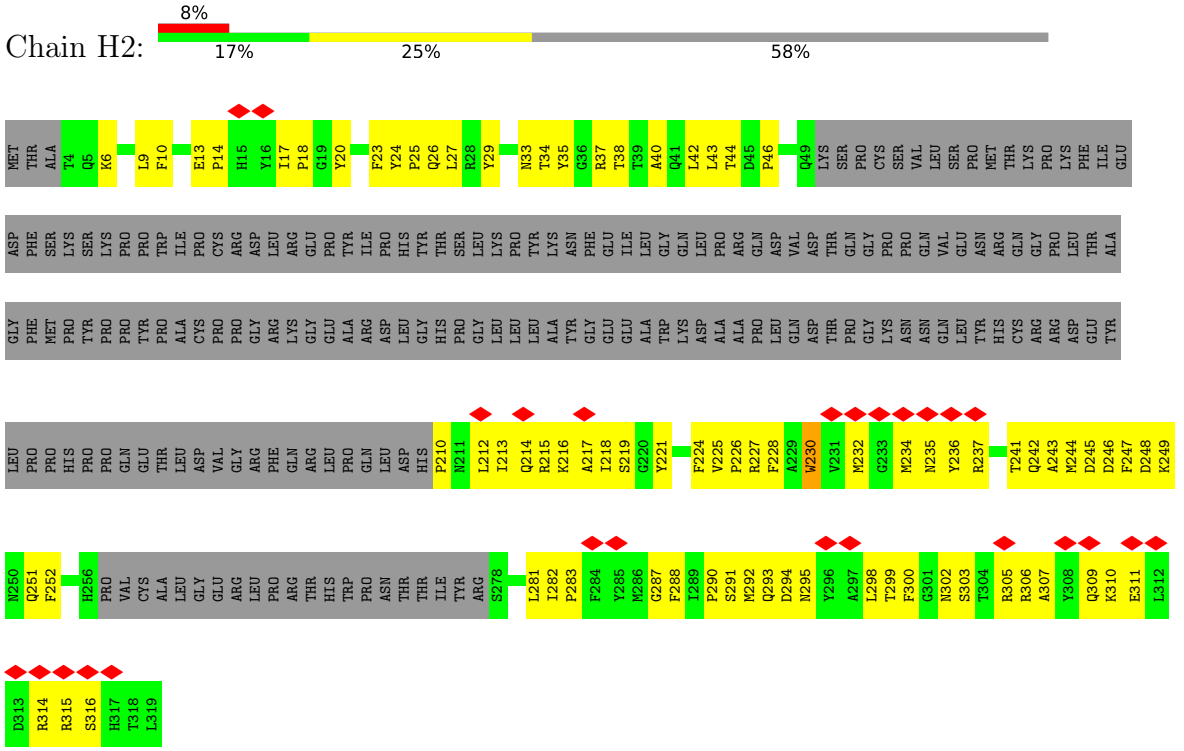
Chain H1:





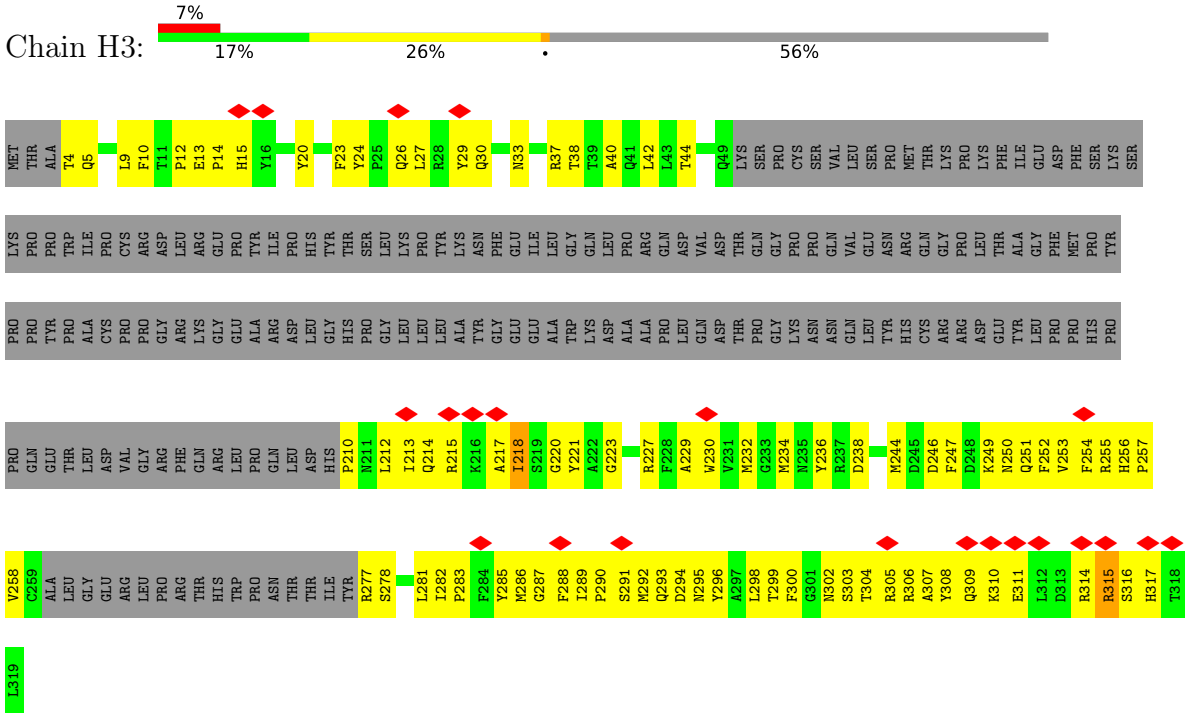
• Molecule 15: Protein FAM166A

Chain H2:



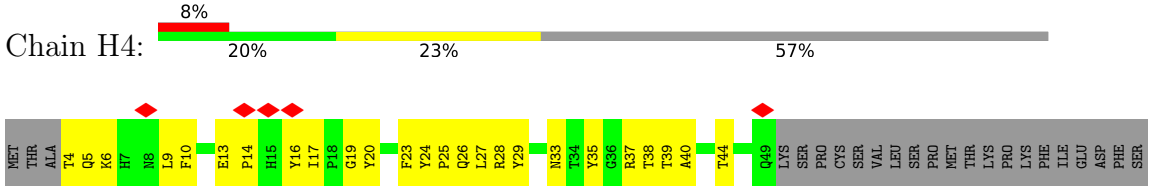
• Molecule 15: Protein FAM166A

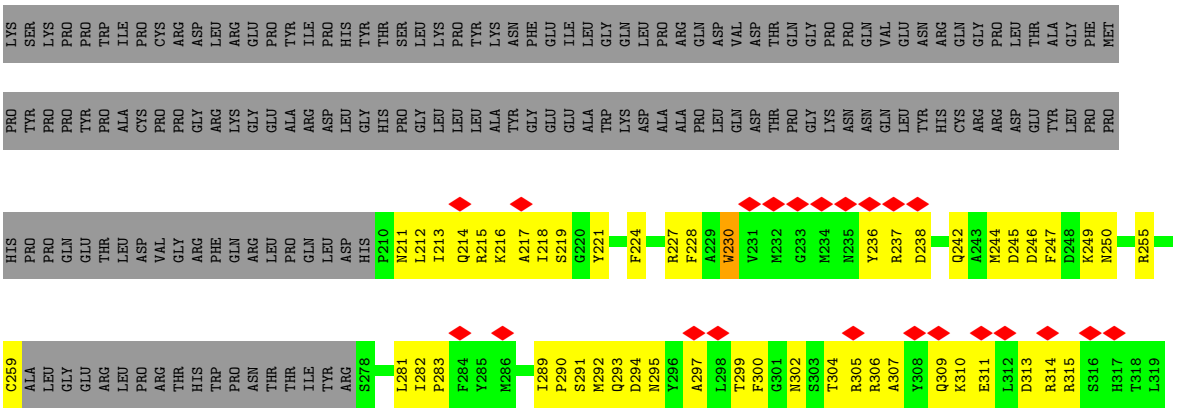
Chain H3:



• Molecule 15: Protein FAM166A

Chain H4:

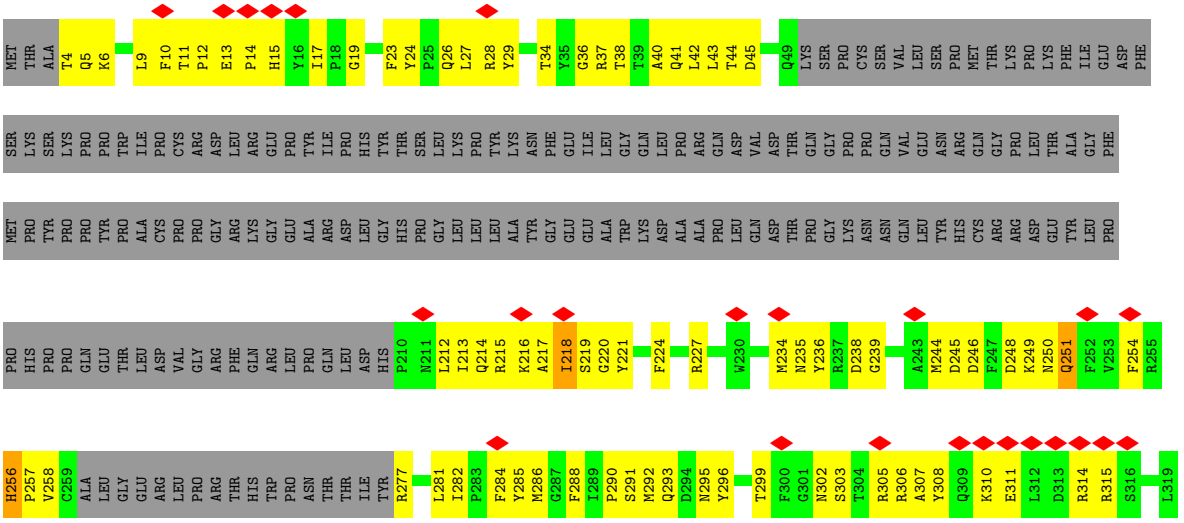




• Molecule 15: Protein FAM166A

Chain H5:

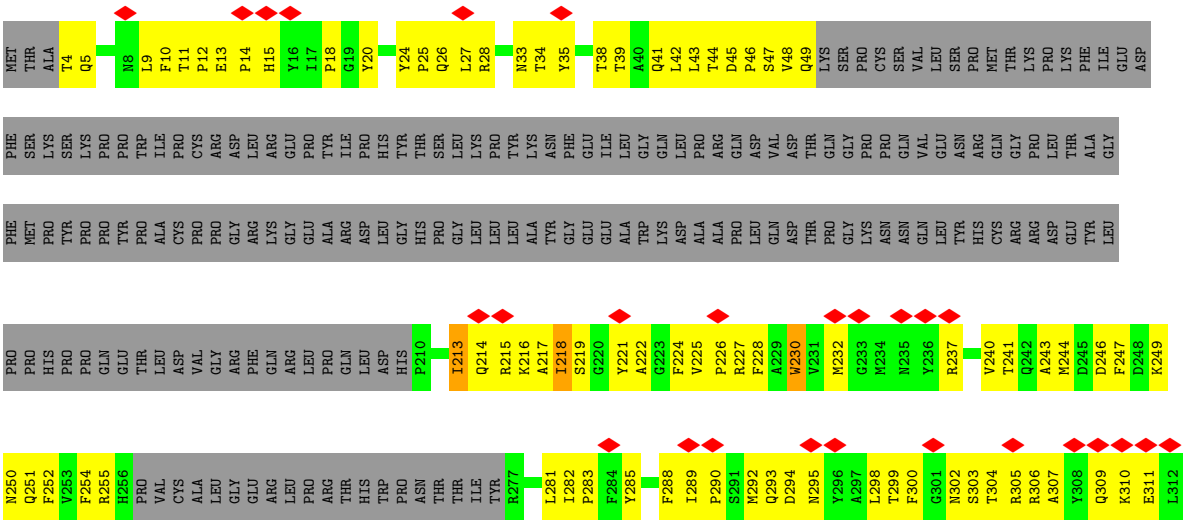




• Molecule 15: Protein FAM166A

Chain H6:



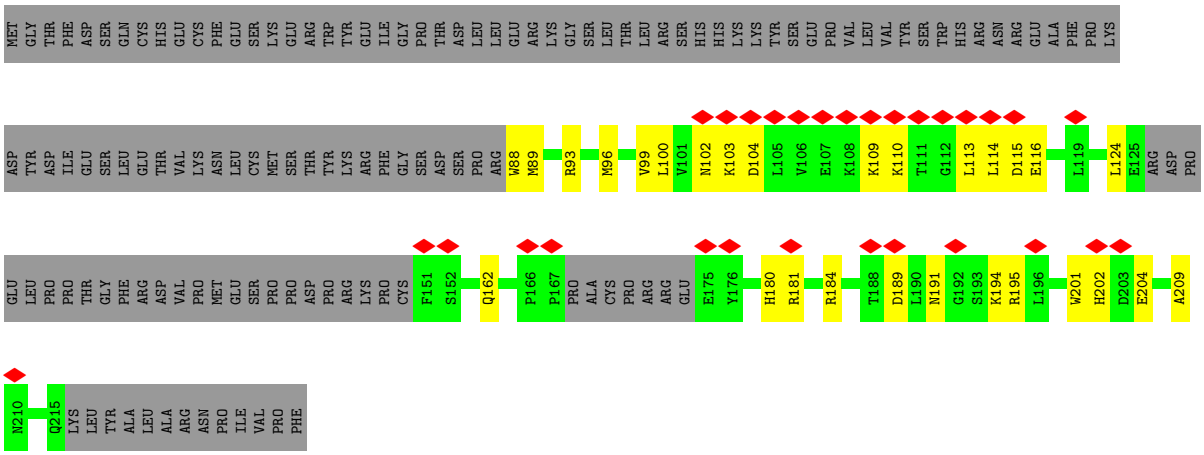




• Molecule 16: Cilia- and flagella-associated protein 95

Chain I:

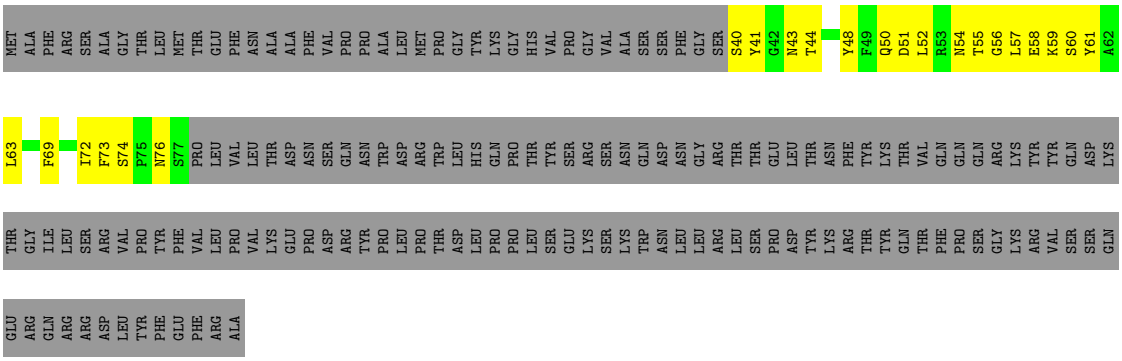




• Molecule 17: Protein FAM166C

Chain I1:

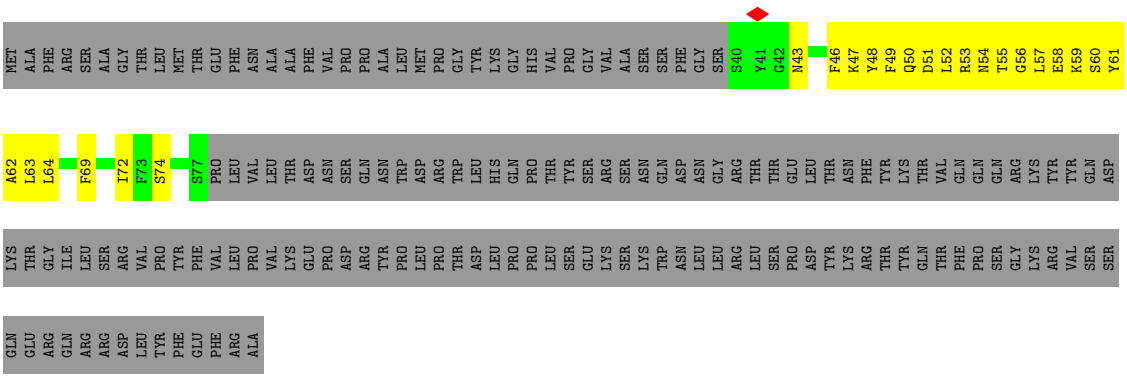




• Molecule 17: Protein FAM166C

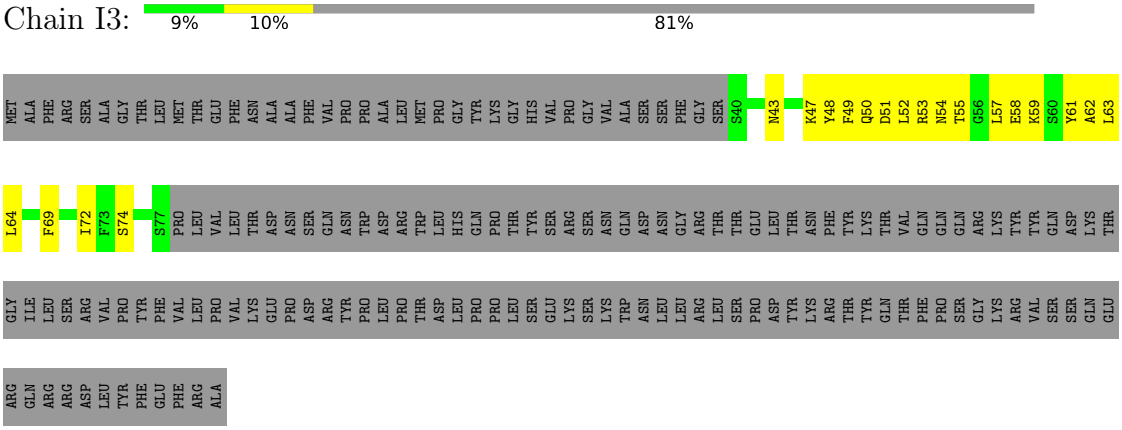
Chain I2:





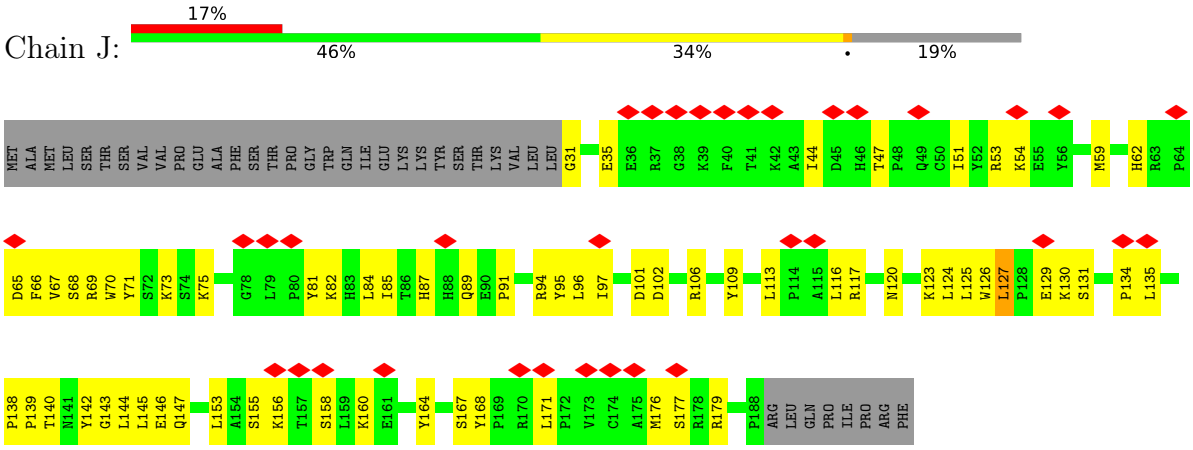
• Molecule 17: Protein FAM166C

Chain I3:



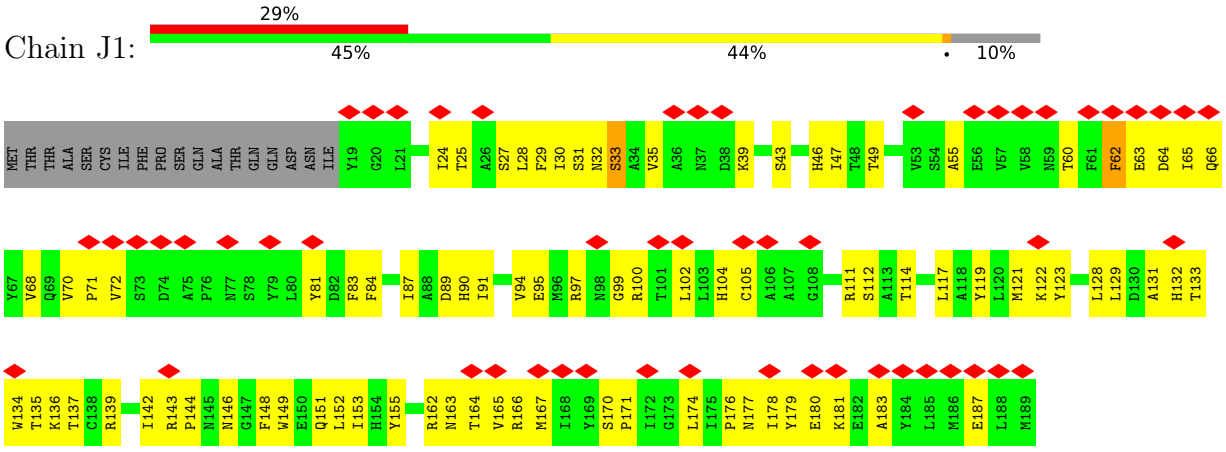
• Molecule 18: Cilia- and flagella-associated protein 107

Chain J:



• Molecule 19: Dual specificity phosphatase 21

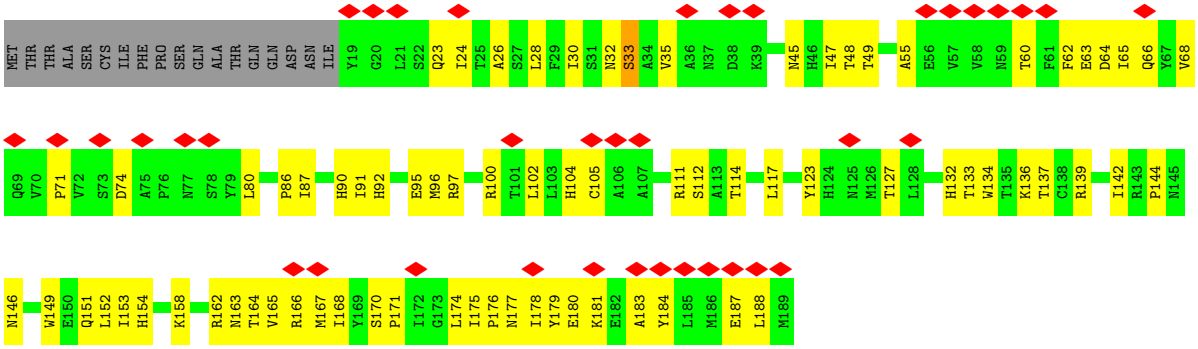
Chain J1:



• Molecule 19: Dual specificity phosphatase 21

Chain J2:

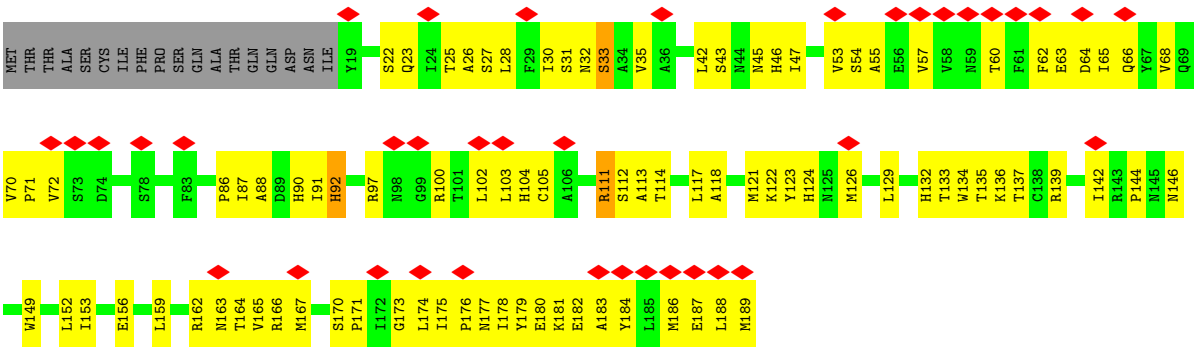




• Molecule 19: Dual specificity phosphatase 21

Chain J3:

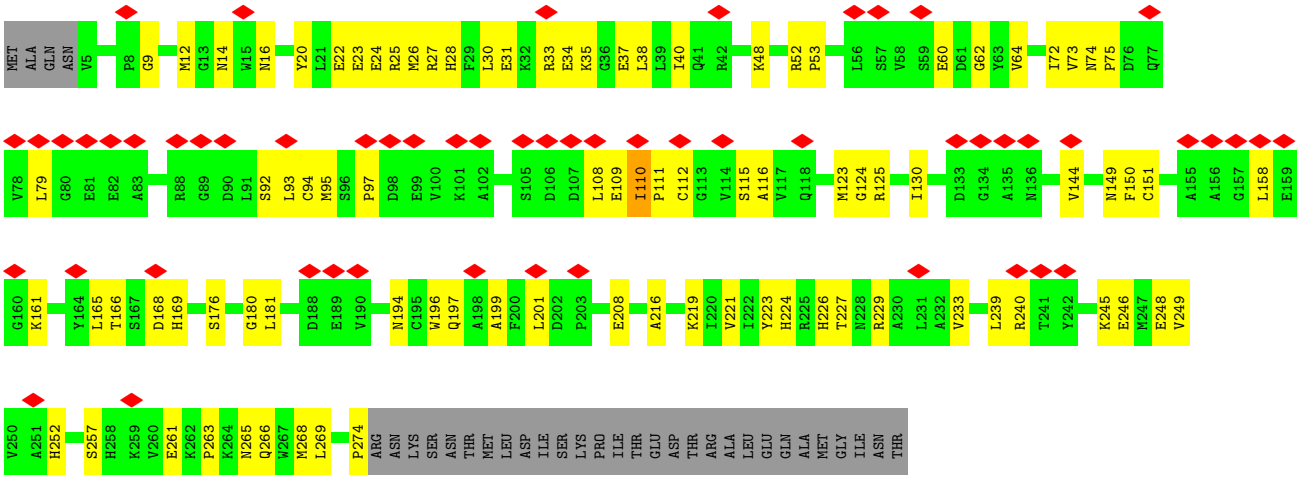




• Molecule 20: Cilia- and flagella-associated protein 161

Chain K:

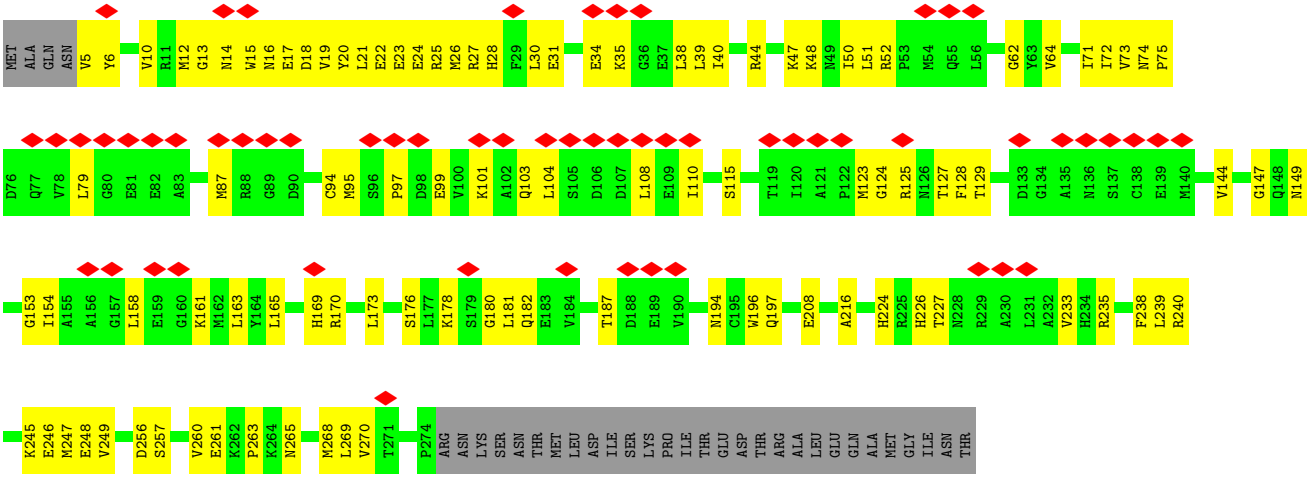




• Molecule 20: Cilia- and flagella-associated protein 161

Chain L:

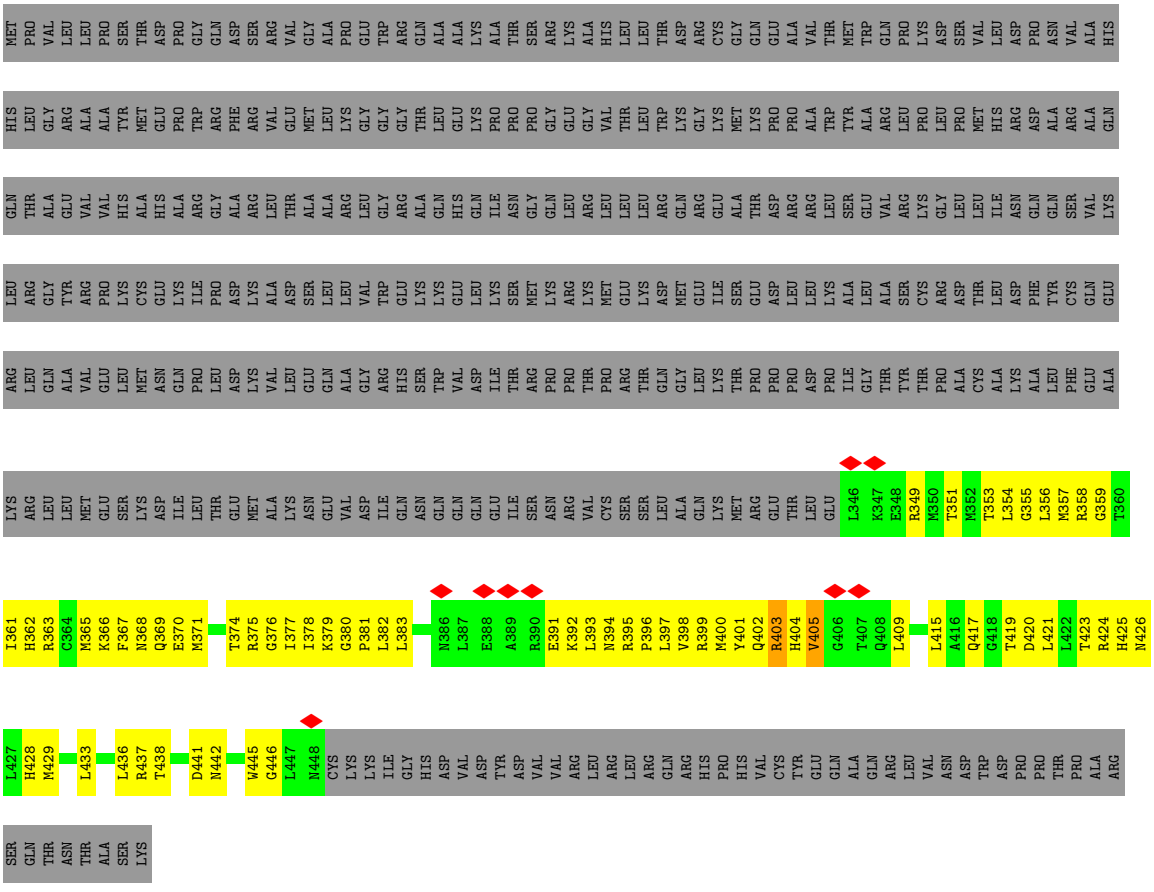




• Molecule 21: Coiled-coil domain-containing protein 105

Chain K1:

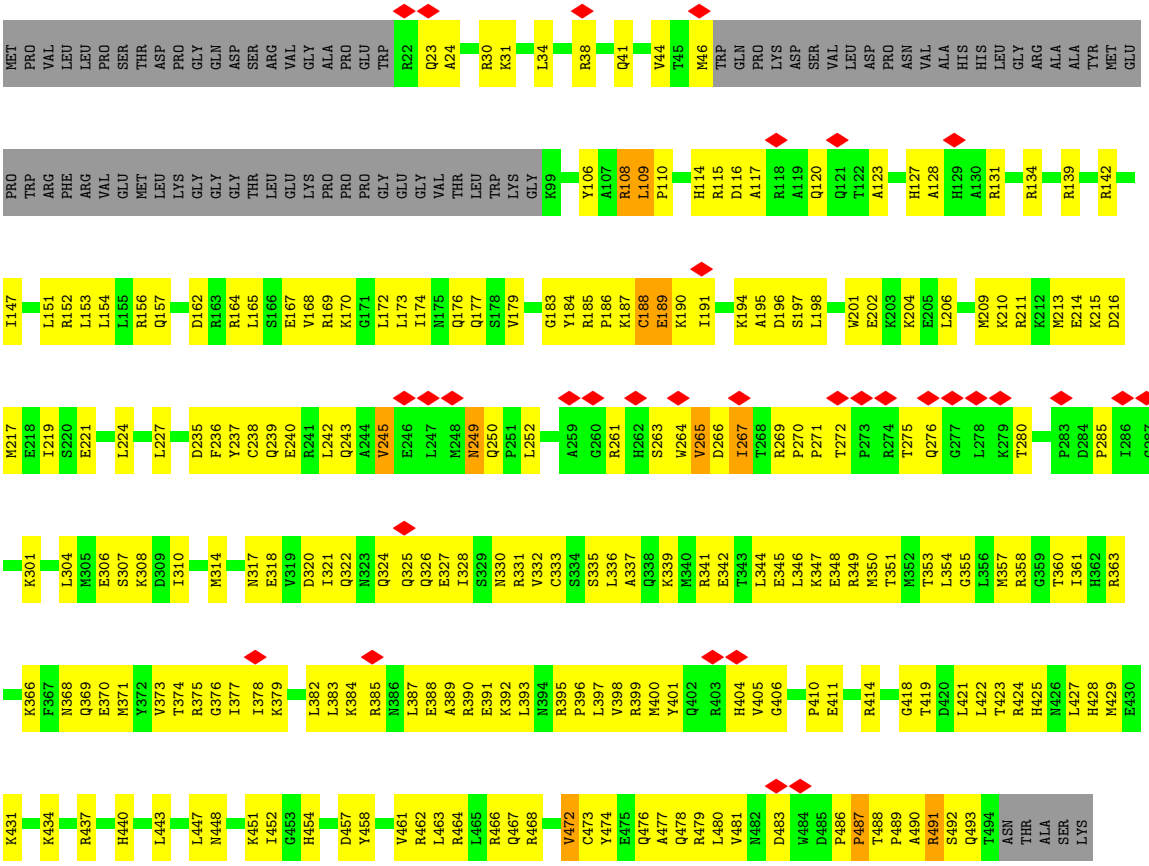




• Molecule 21: Coiled-coil domain-containing protein 105

Chain K2:

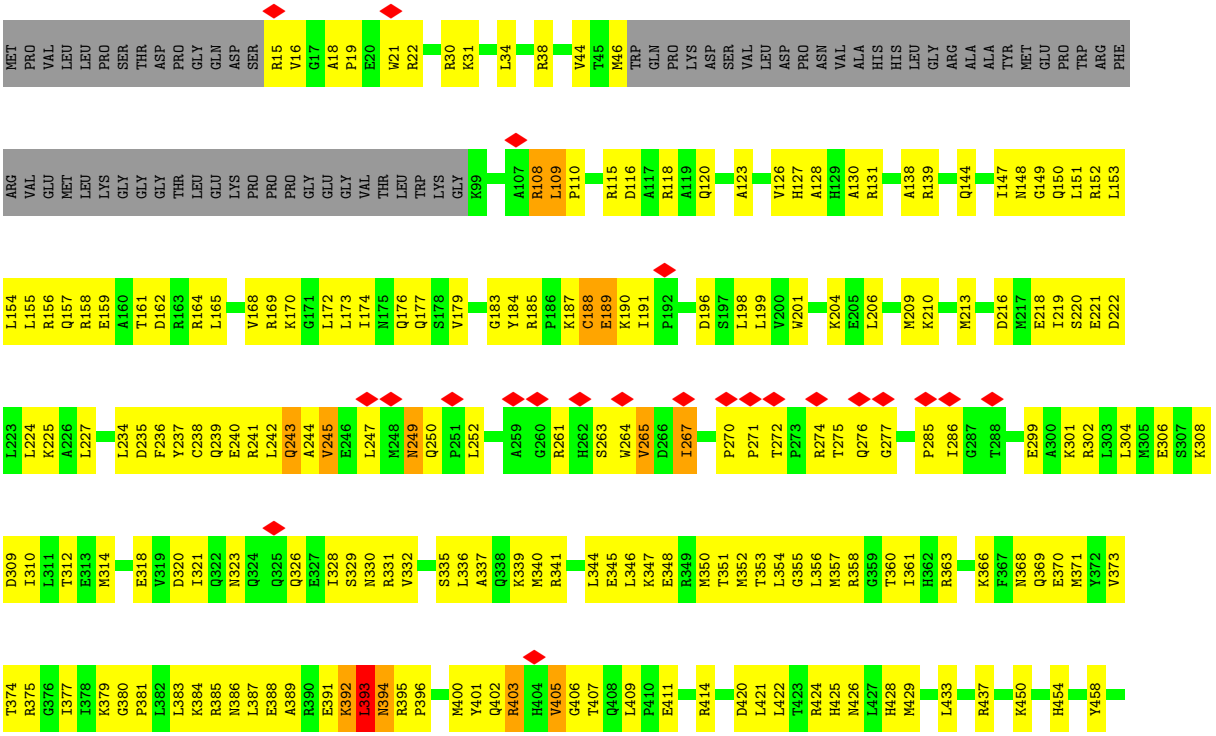


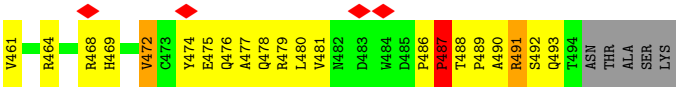


• Molecule 21: Coiled-coil domain-containing protein 105

Chain K3:



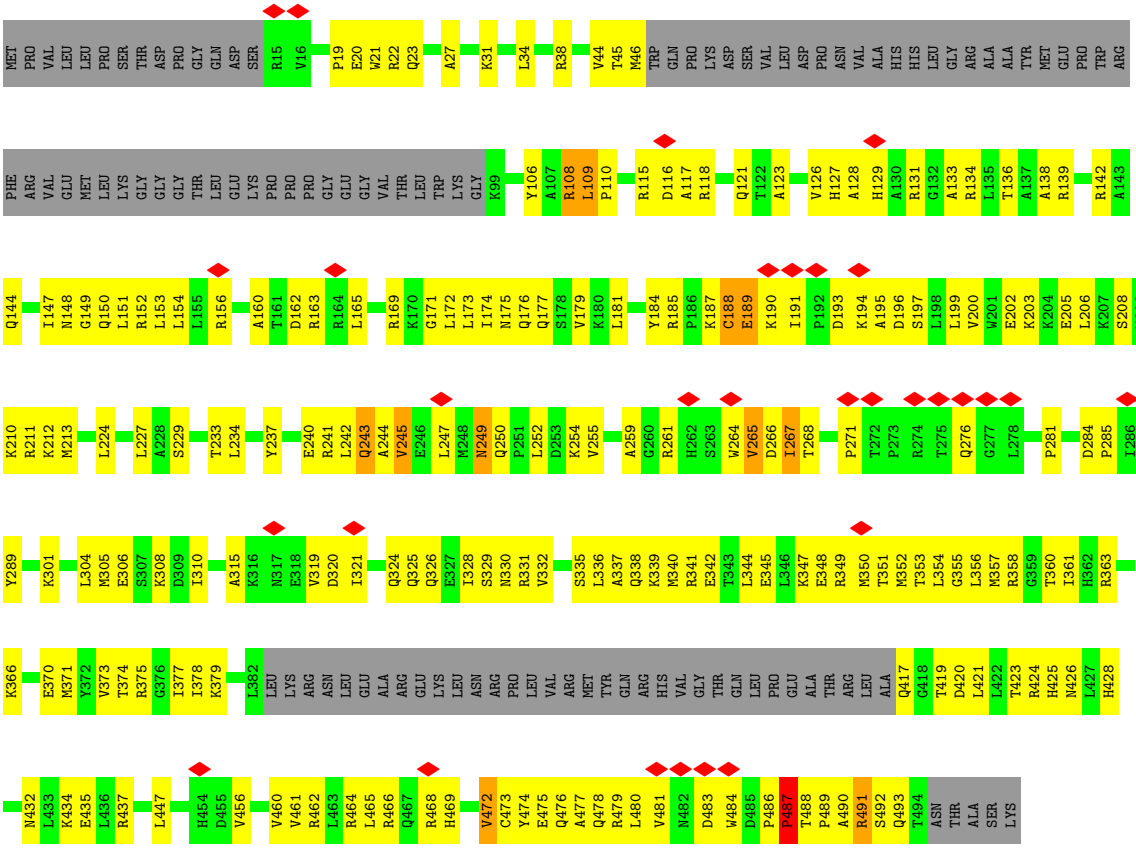




• Molecule 21: Coiled-coil domain-containing protein 105

Chain K4:

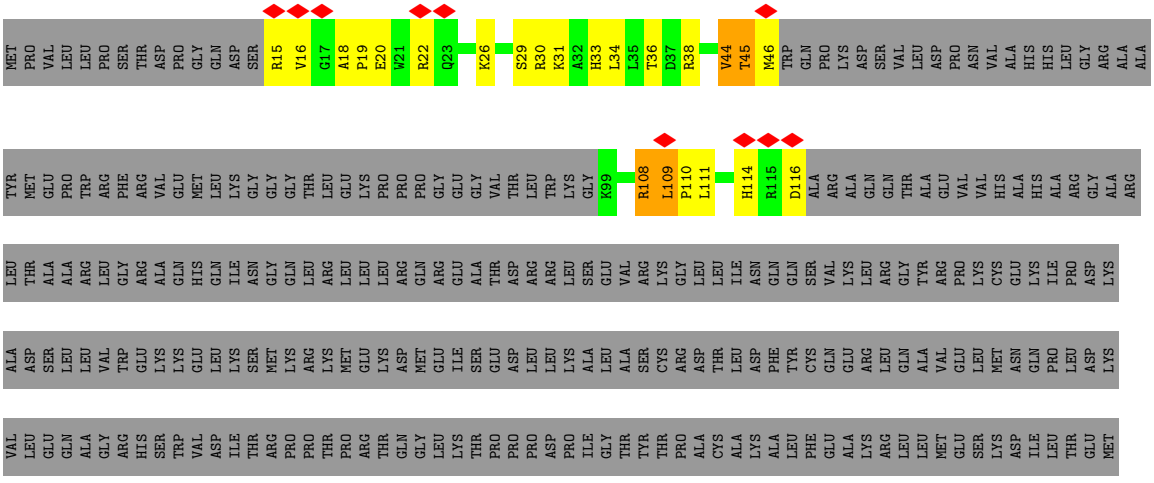


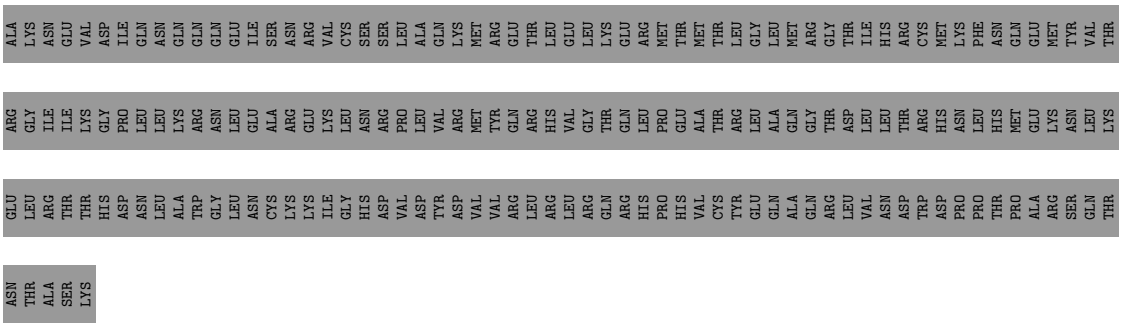


• Molecule 21: Coiled-coil domain-containing protein 105

Chain K5:



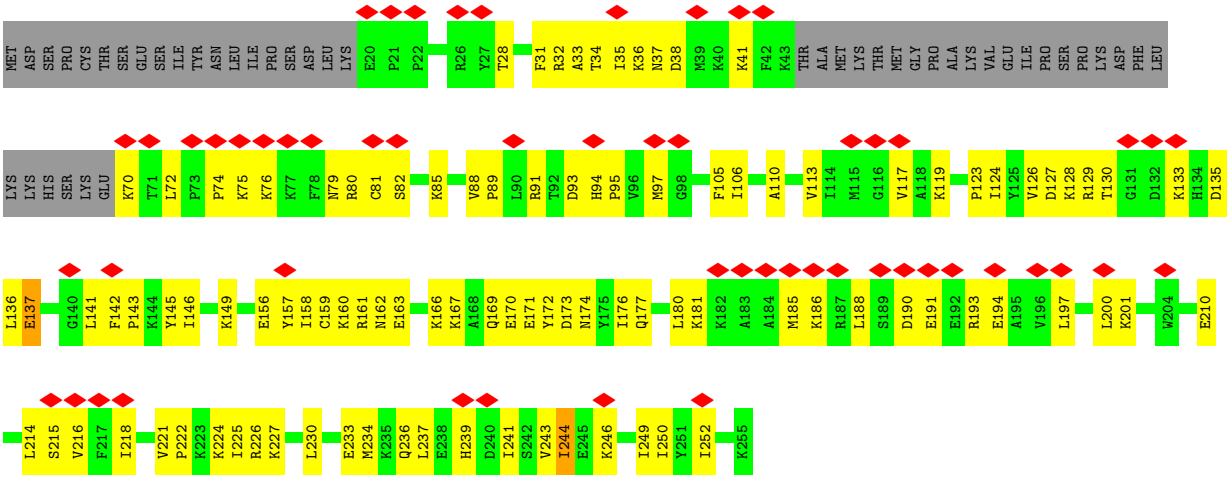




• Molecule 22: Enkurin

Chain L1:

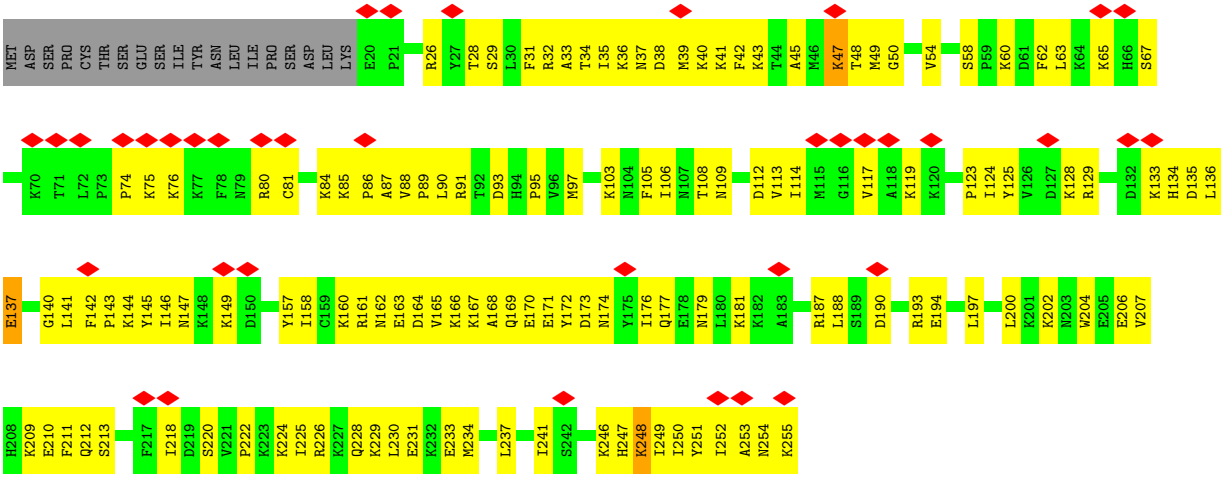




• Molecule 22: Enkurin

Chain L2:

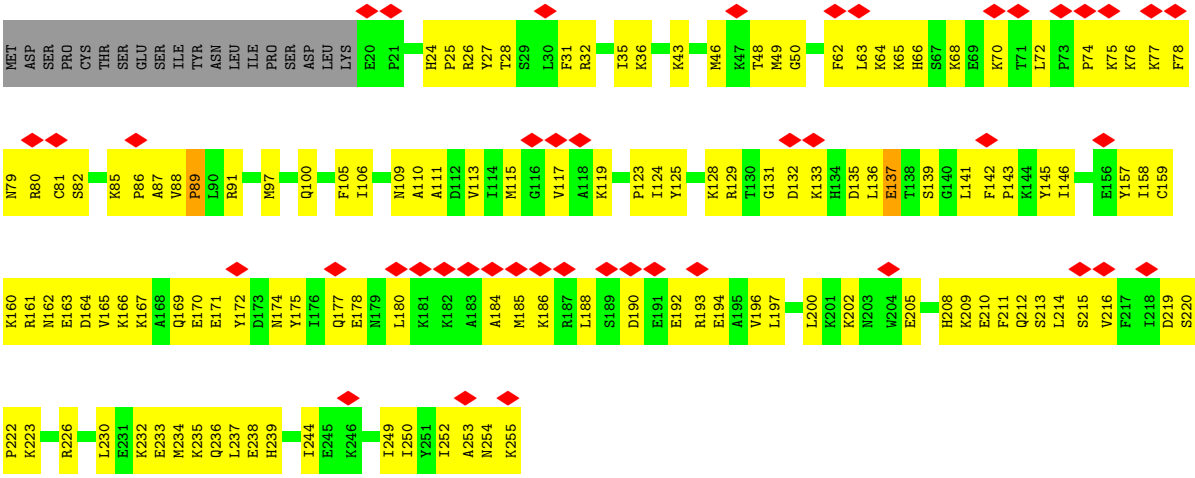




• Molecule 22: Enkurin

Chain L3:

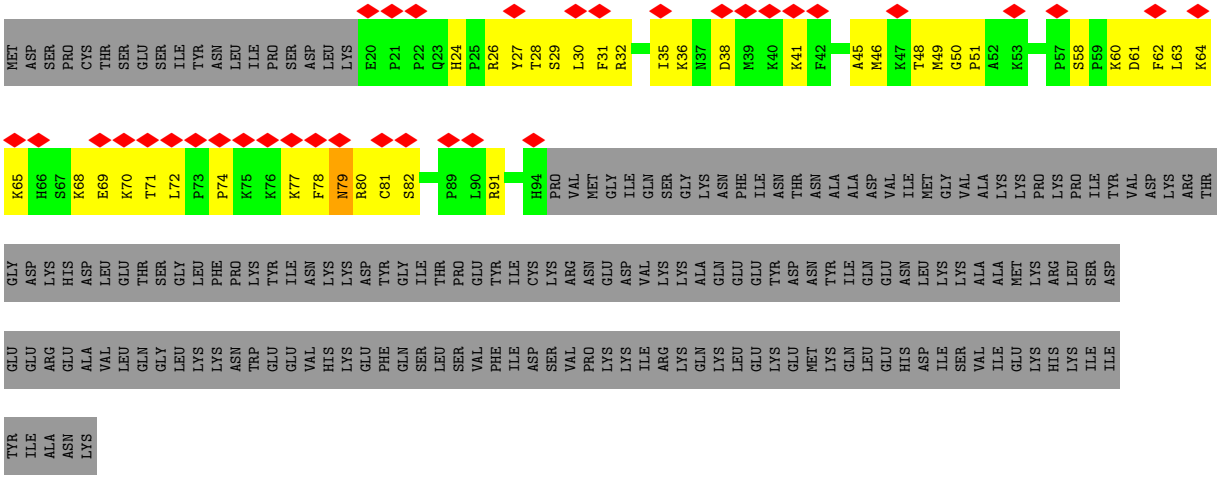




• Molecule 22: Enkurin

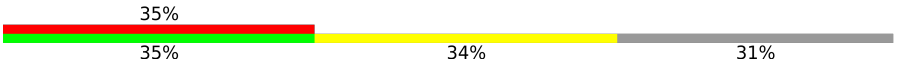
Chain L4:

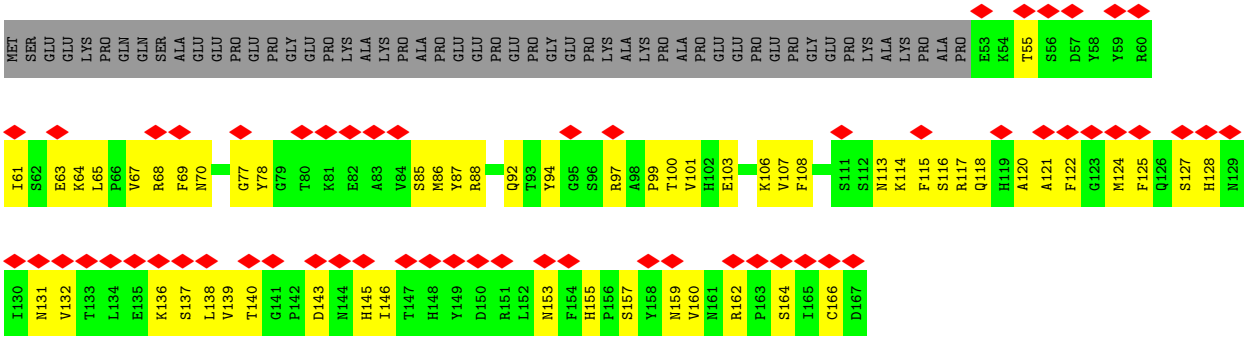




• Molecule 23: Piercer of microtubule wall 1 protein

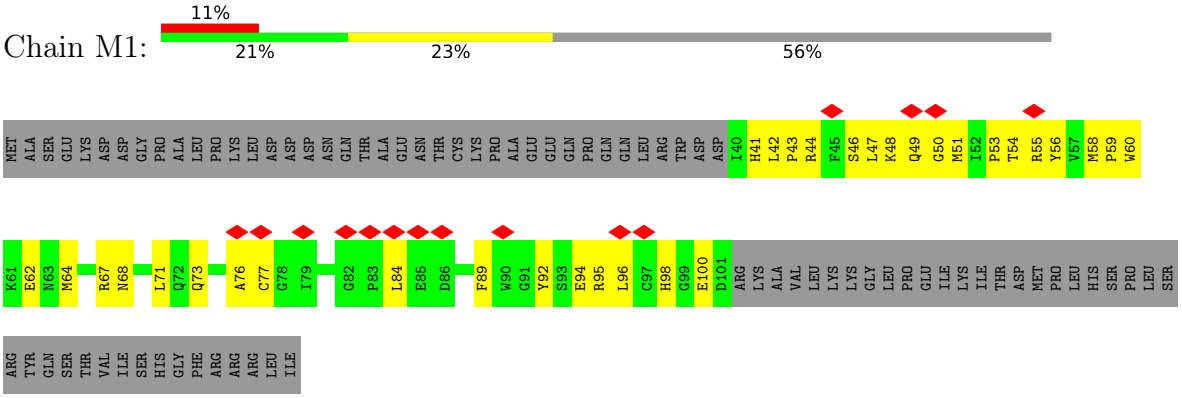
Chain M:





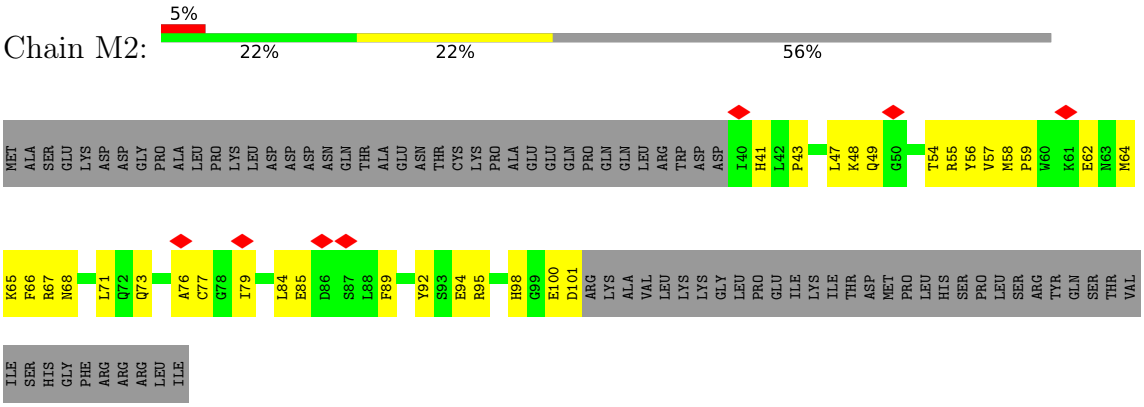
• Molecule 24: Testis-expressed protein 43

Chain M1:



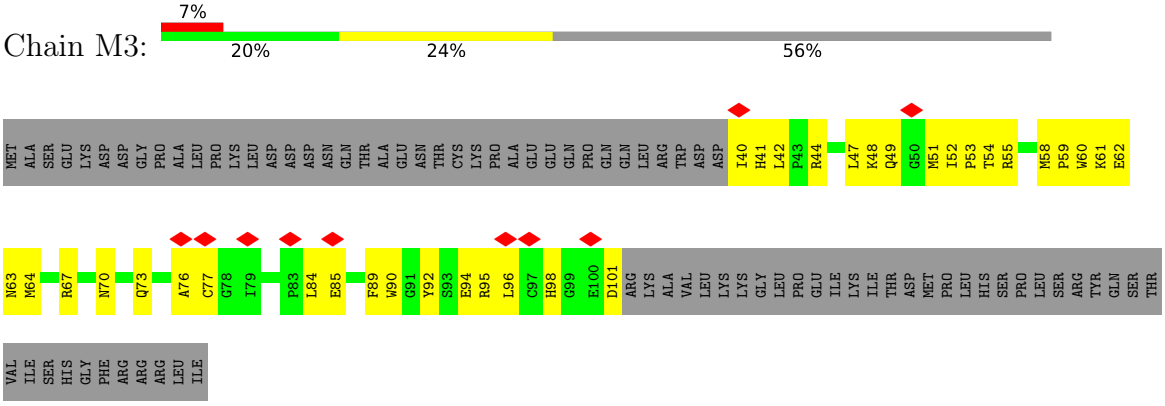
• Molecule 24: Testis-expressed protein 43

Chain M2:



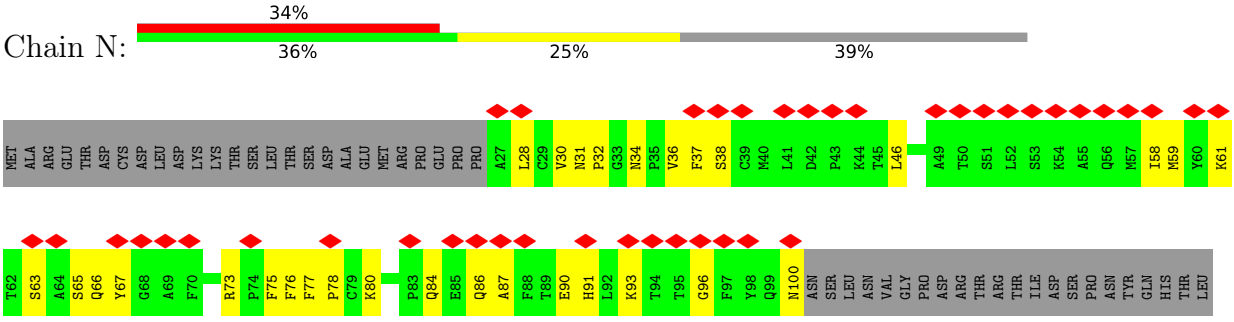
• Molecule 24: Testis-expressed protein 43

Chain M3:



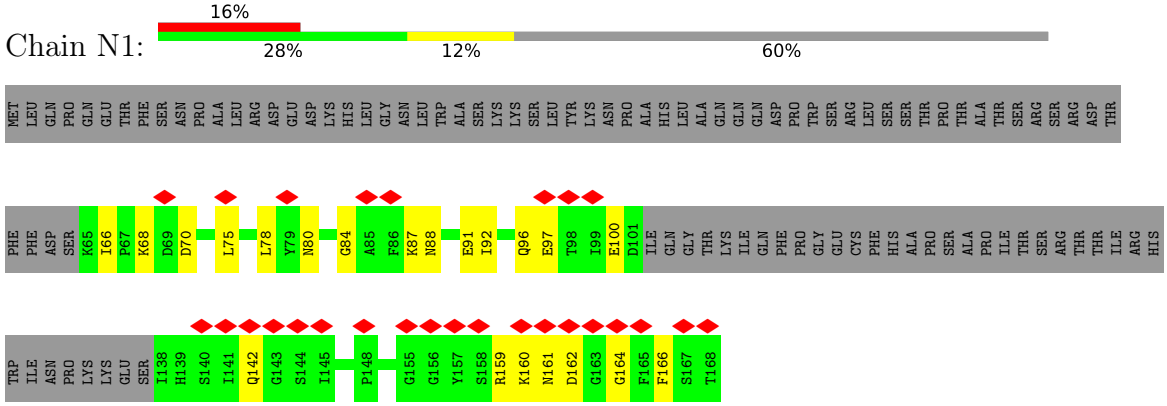
• Molecule 25: Piercer of microtubule wall 2 protein

Chain N:



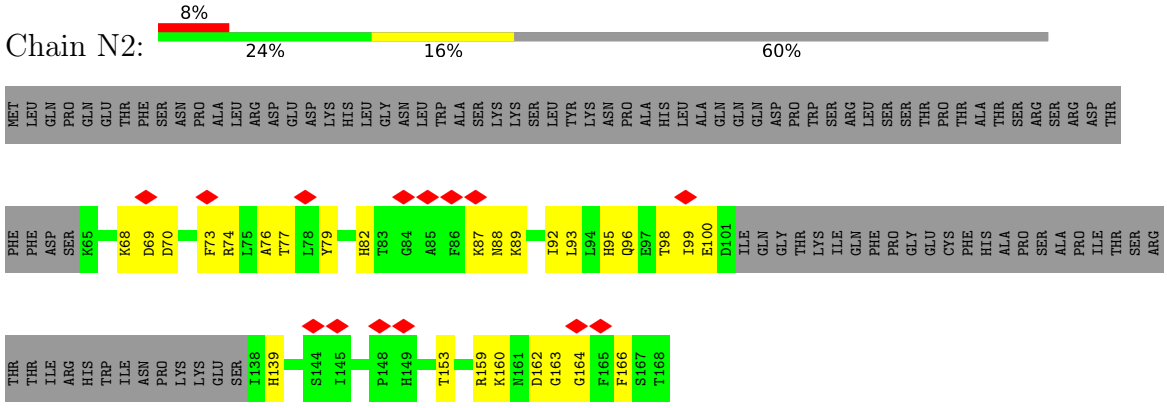
• Molecule 26: Cilia- and flagella-associated protein 276

Chain N1:



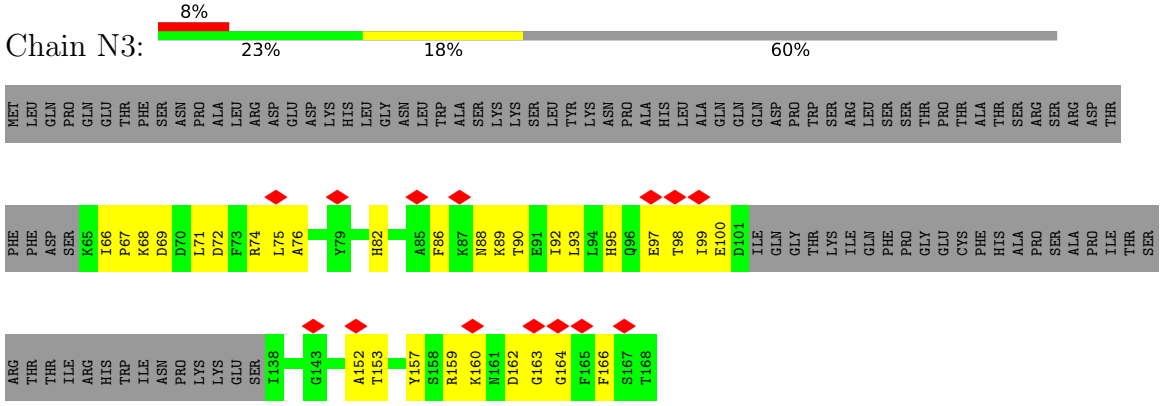
• Molecule 26: Cilia- and flagella-associated protein 276

Chain N2:



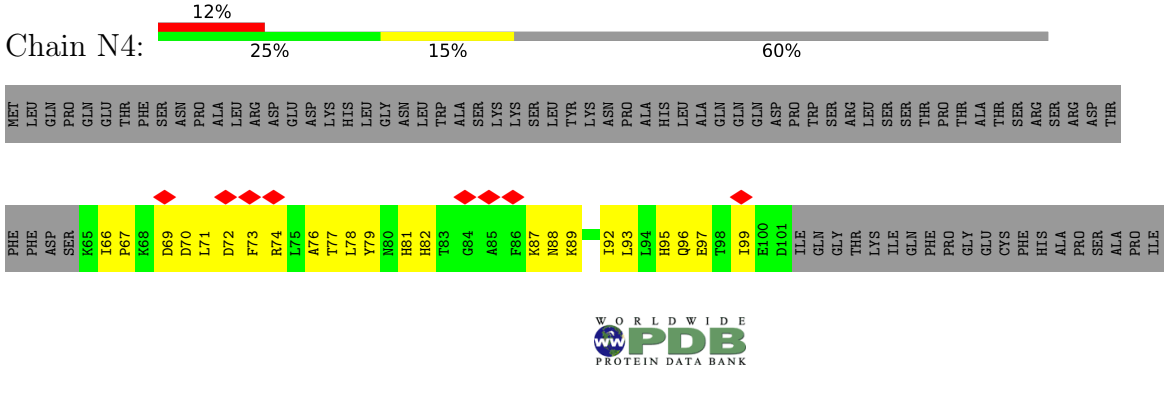
• Molecule 26: Cilia- and flagella-associated protein 276

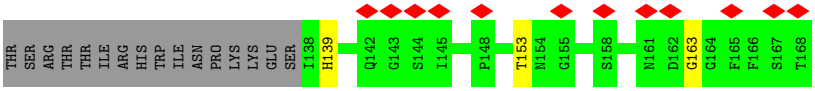
Chain N3:



• Molecule 26: Cilia- and flagella-associated protein 276

Chain N4:

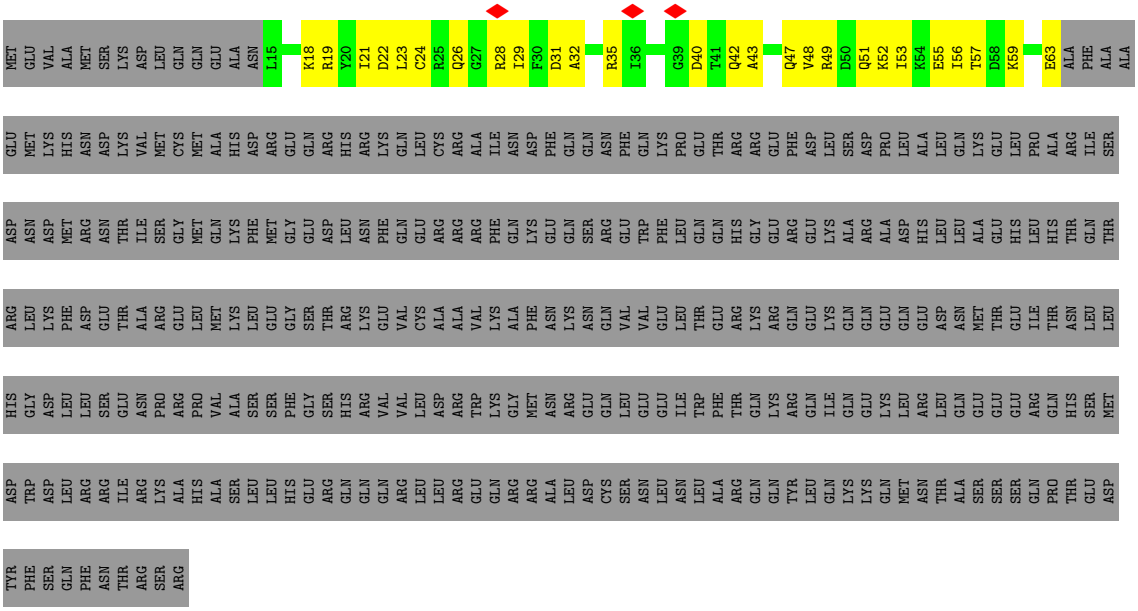




• Molecule 27: RIB43A-like with coiled-coils protein 2

Chain O:

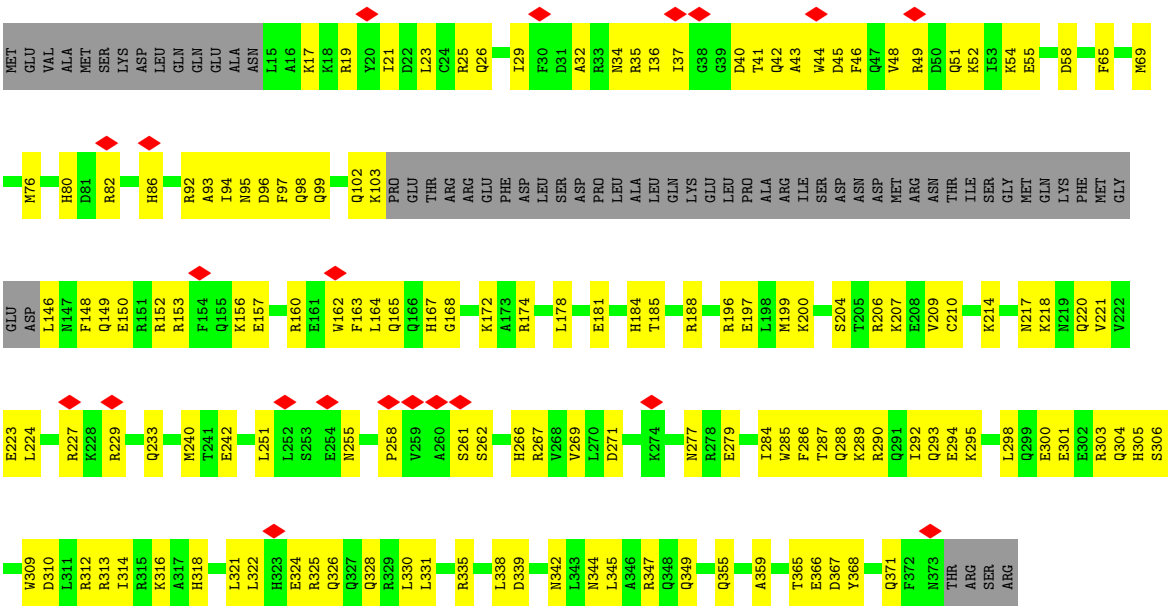




• Molecule 27: RIB43A-like with coiled-coils protein 2

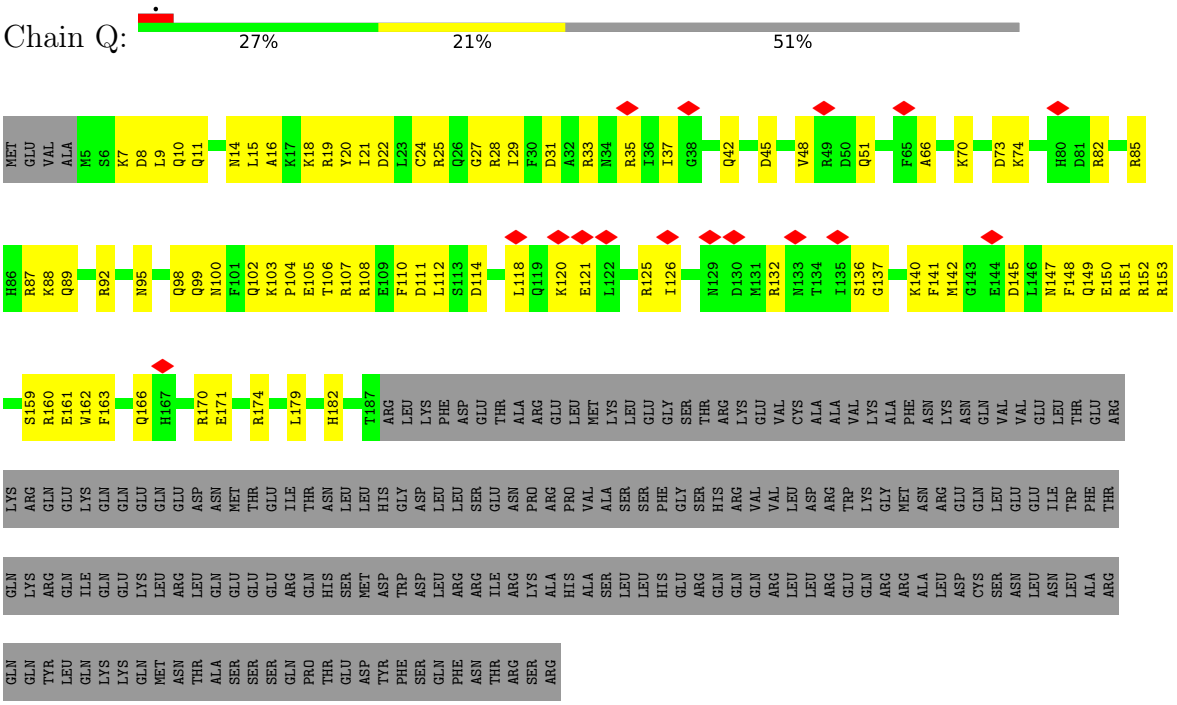
Chain P:





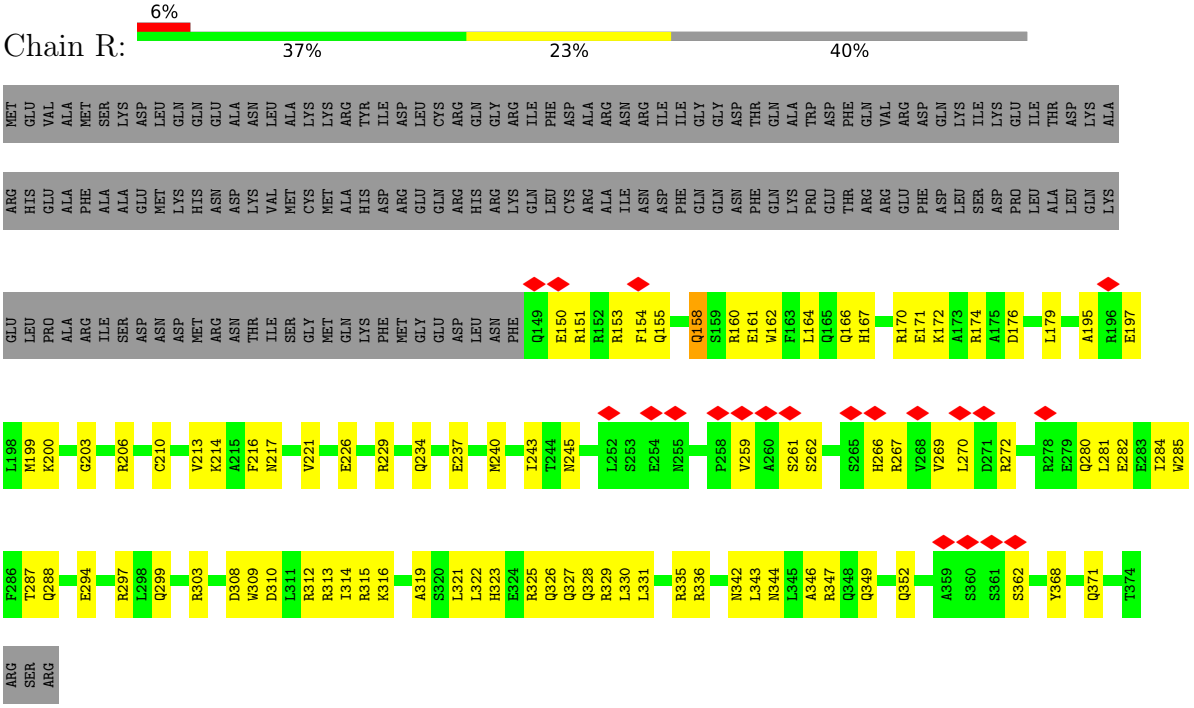
• Molecule 27: RIB43A-like with coiled-coils protein 2

Chain Q:



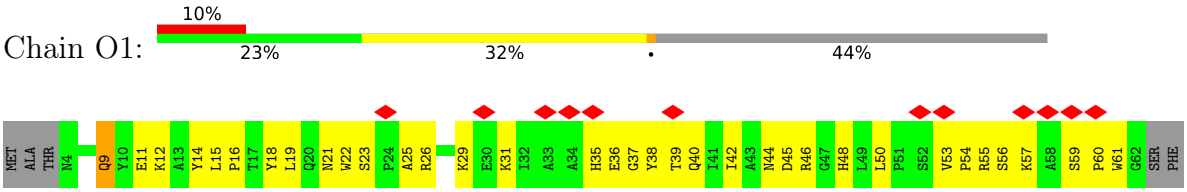
• Molecule 27: RIB43A-like with coiled-coils protein 2

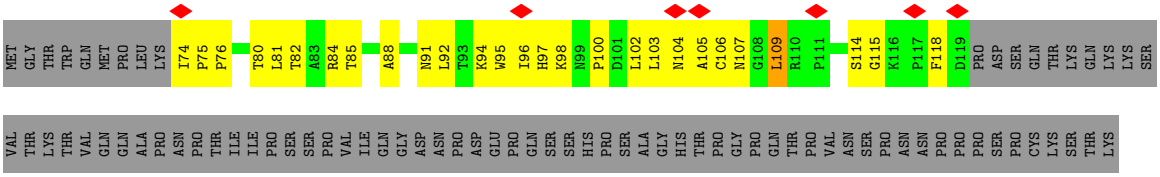
Chain R:



• Molecule 28: Protein Flattop

Chain O1:

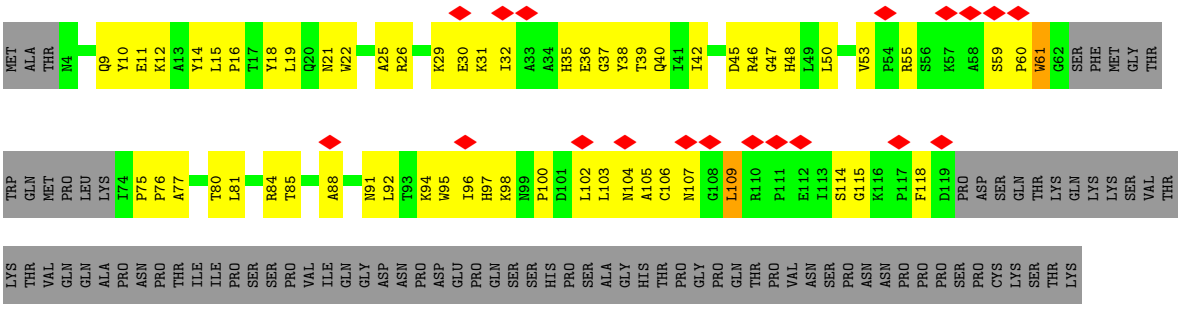




• Molecule 28: Protein Flattop

Chain O2:

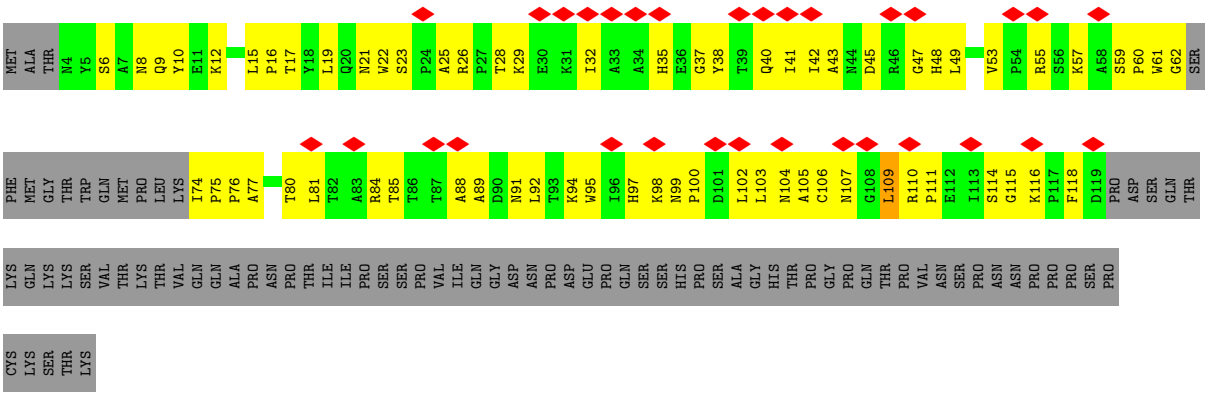




• Molecule 28: Protein Flattop

Chain O3:

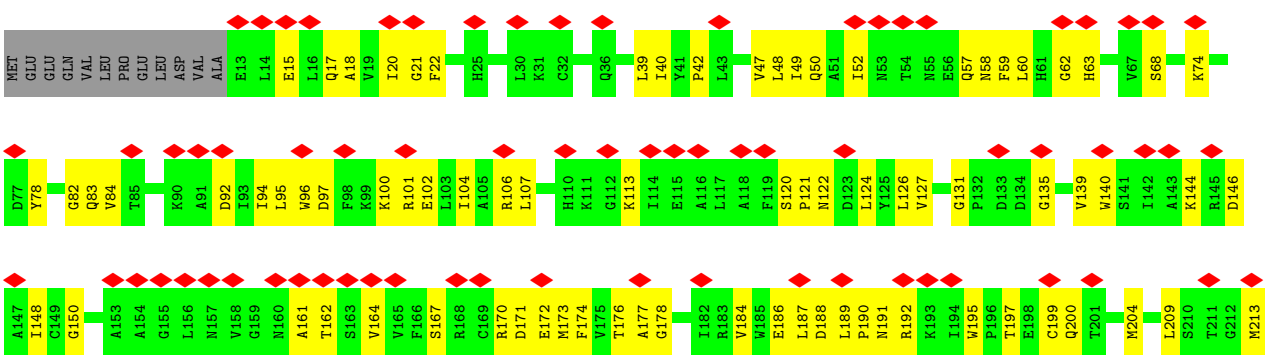


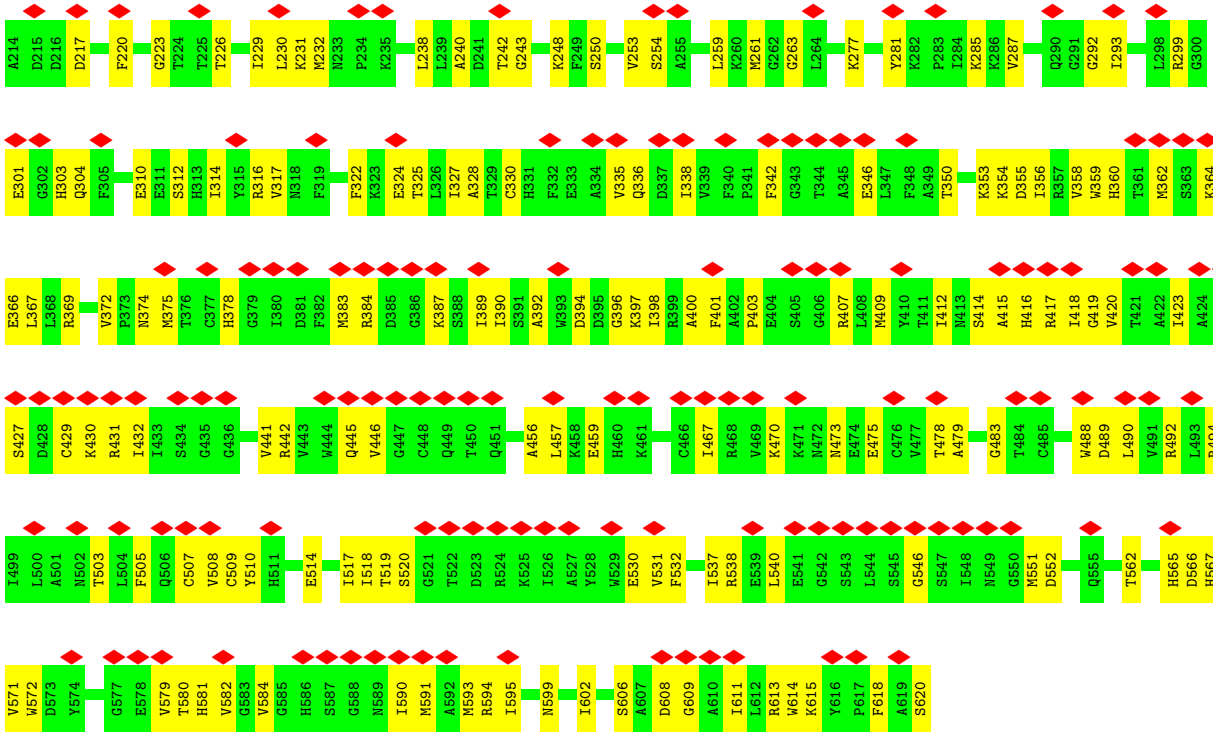


• Molecule 29: Cilia- and flagella-associated protein 52

Chain P1:



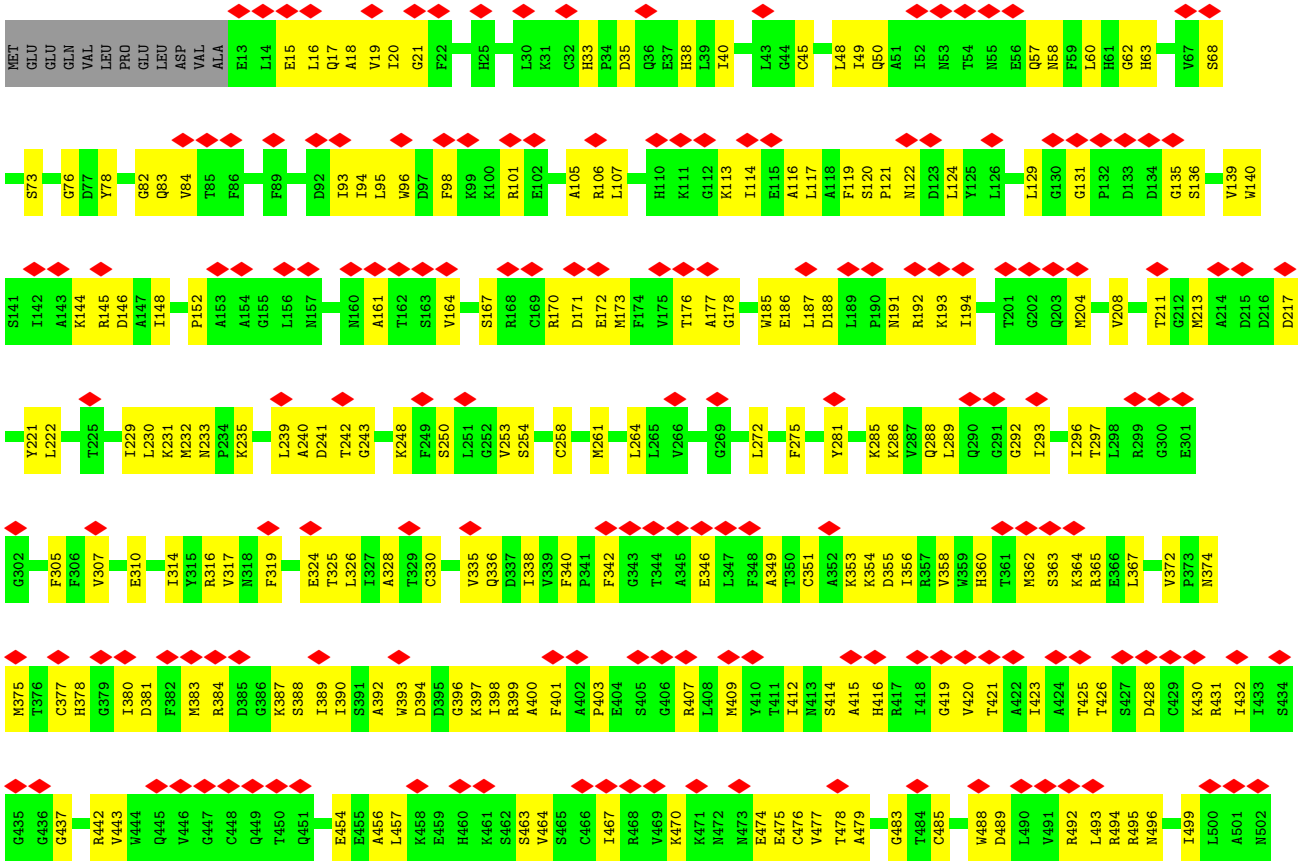


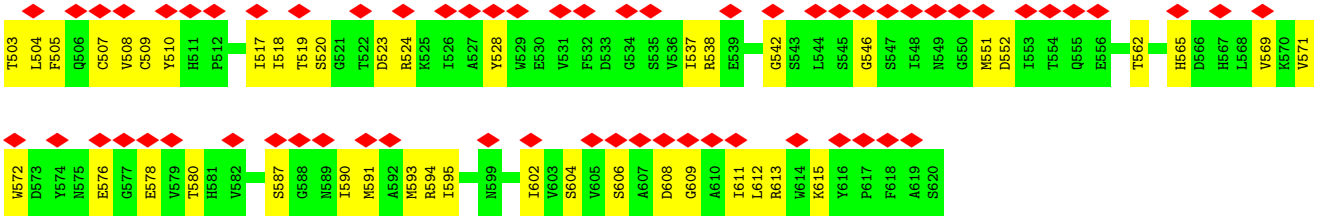


• Molecule 29: Cilia- and flagella-associated protein 52

Chain P2:

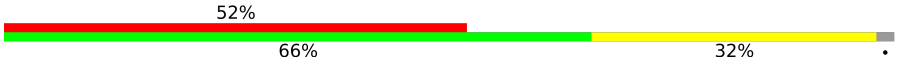


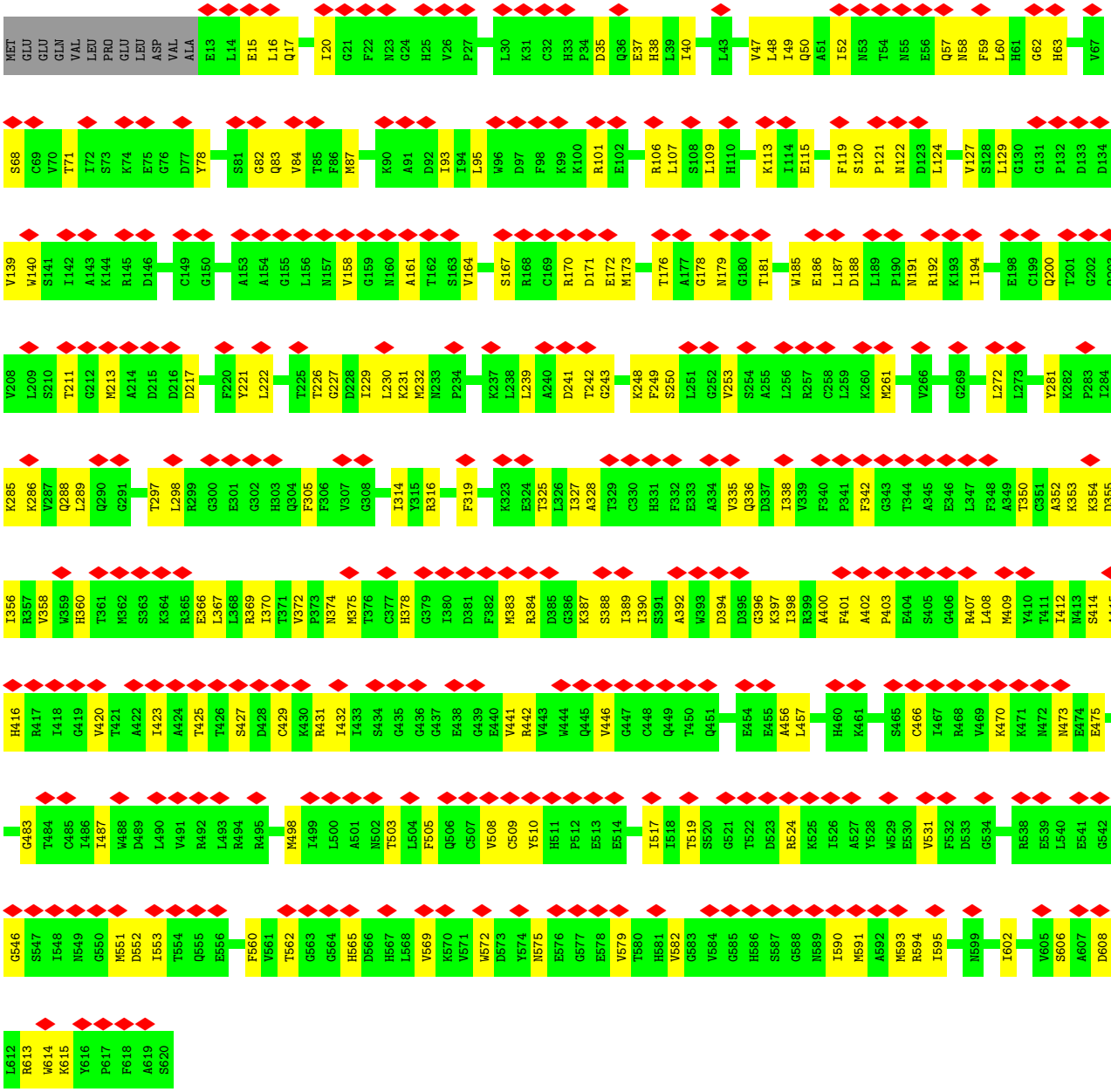




• Molecule 29: Cilia- and flagella-associated protein 52

Chain P3:

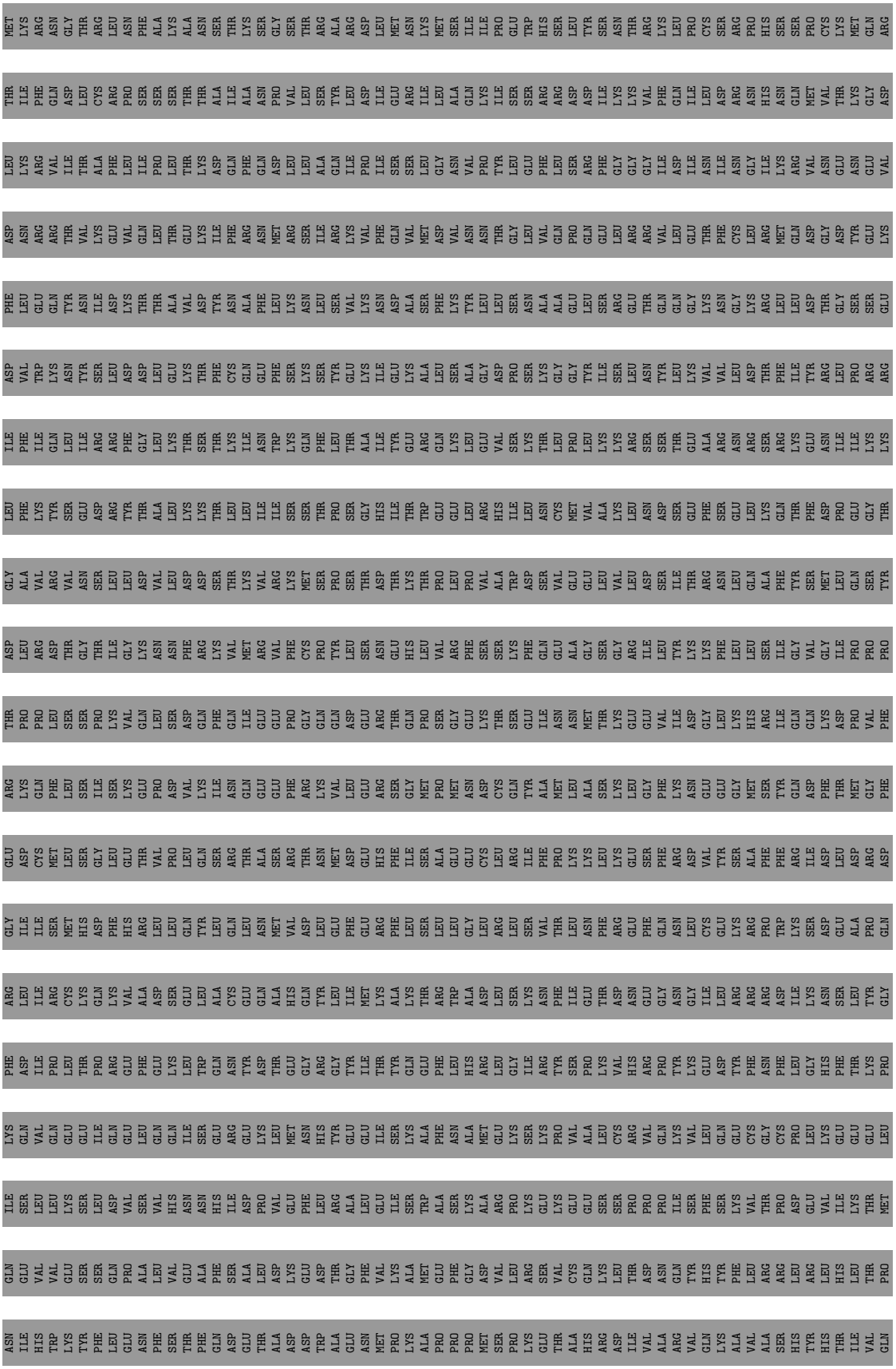


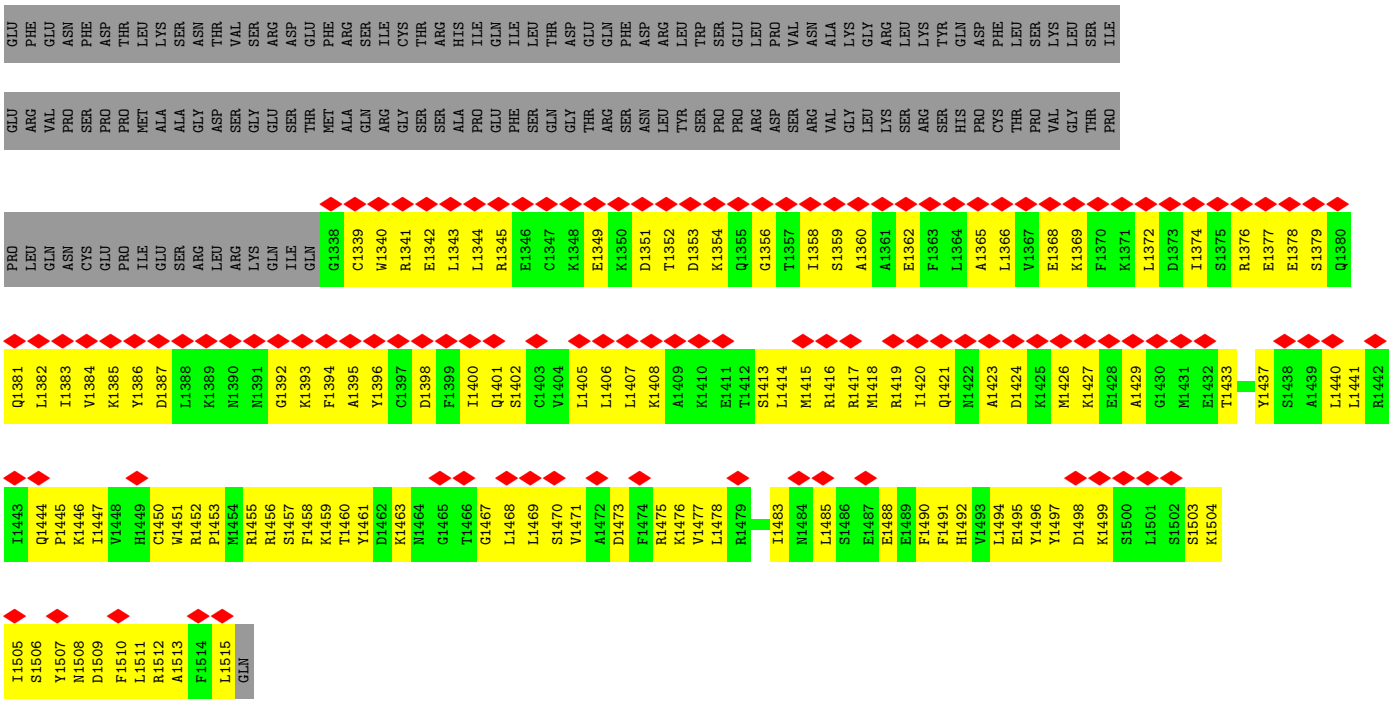


• Molecule 30: EF-hand calcium-binding domain-containing protein 6

Chain Q1:


8%
8%
88%

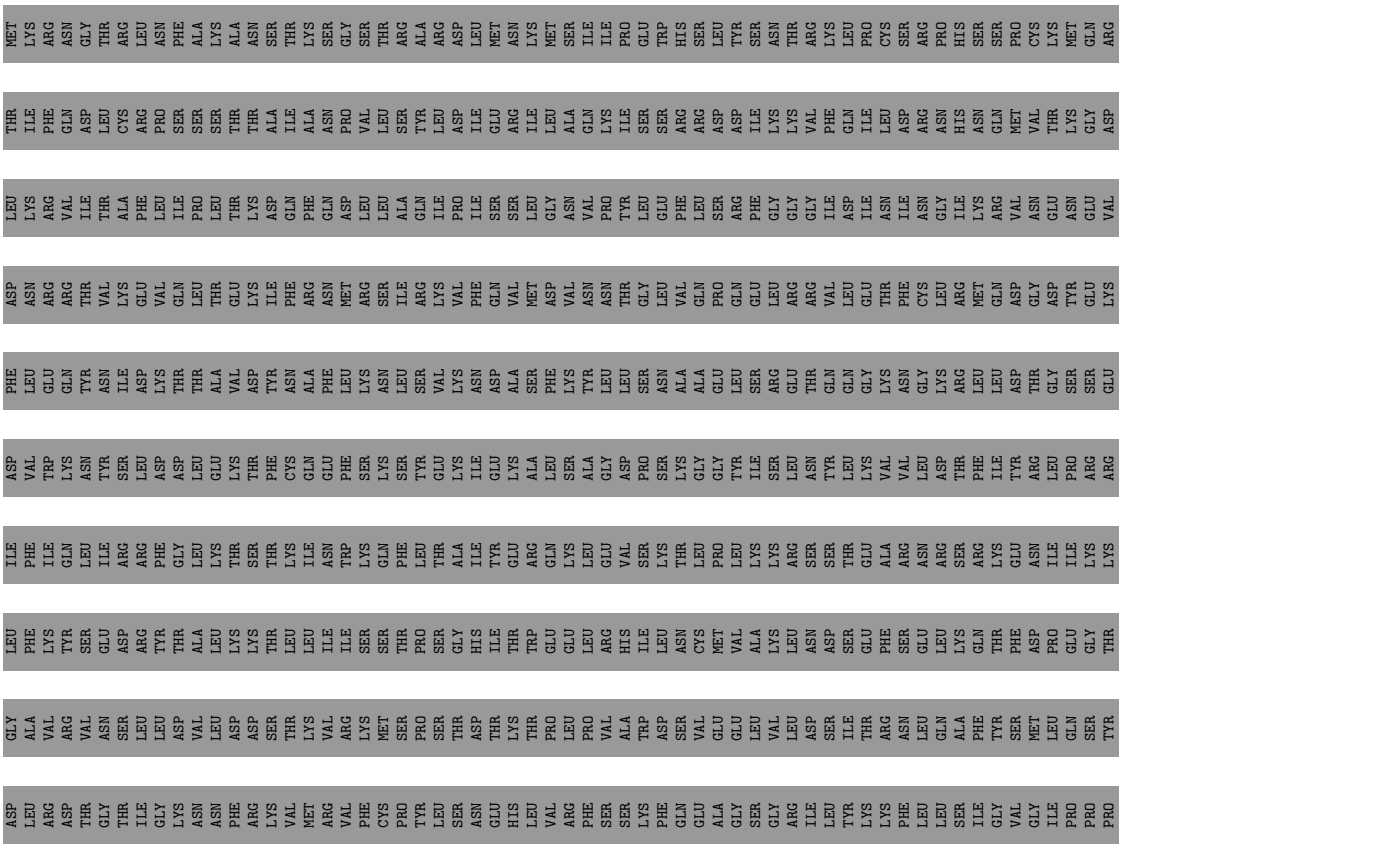

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THR ILE PHE GLN ASP LEU CYS ARG PRO SER SER SER THR THR ALA ILE ALA ASN PRO VAL LEU SER TYR LEU ASP ILE GLU ARG ILE LEU ALA GLN LYS ILE SER SER ARG ARG ASP ASP ILE LYS LYS VAL PHE GLN ILE LEU ASP ARG ASN GLN MET VAL THR LYS GLY ASP
LEU LYS ARG VAL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

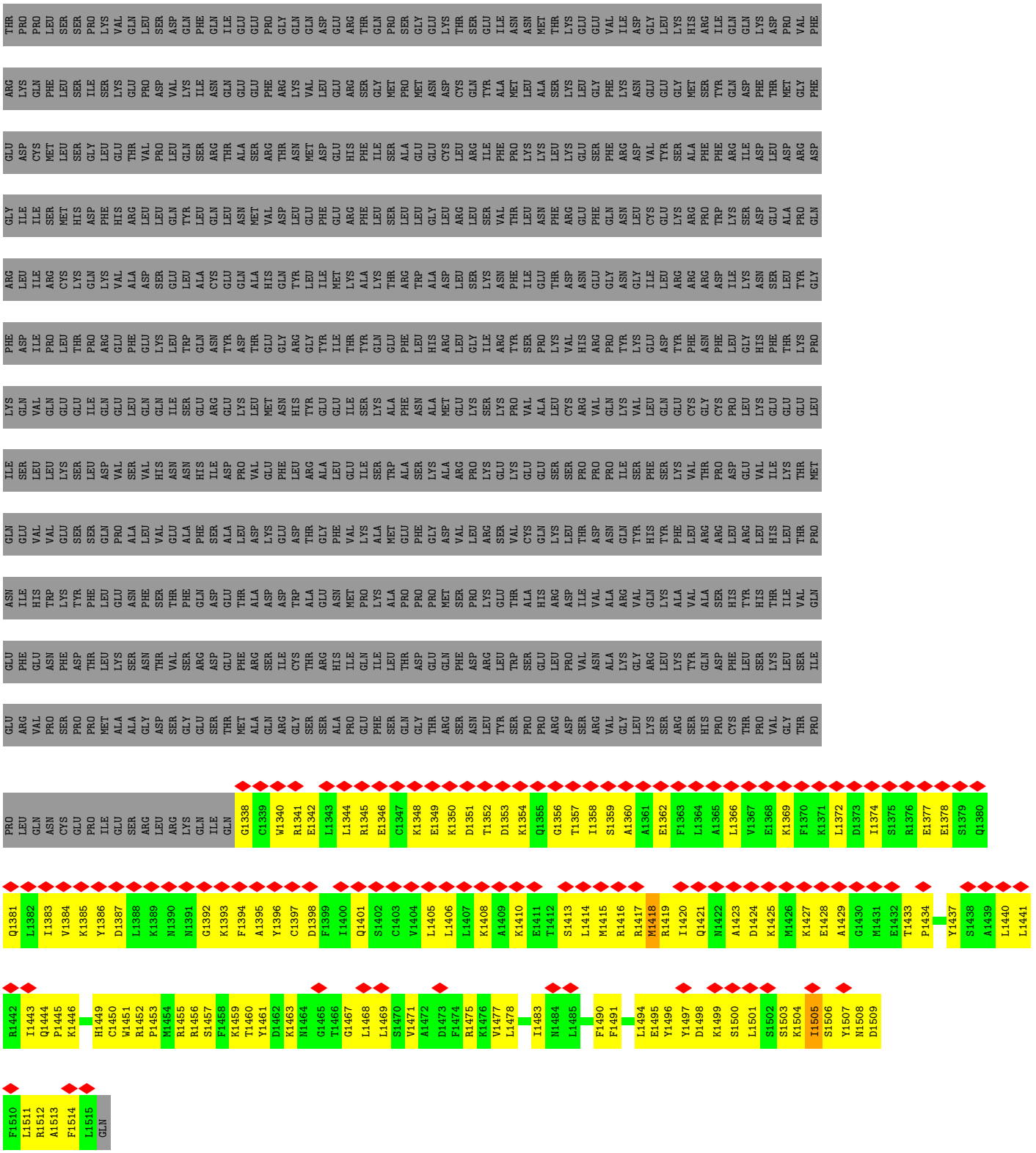


• Molecule 30: EF-hand calcium-binding domain-containing protein 6

Chain Q2:



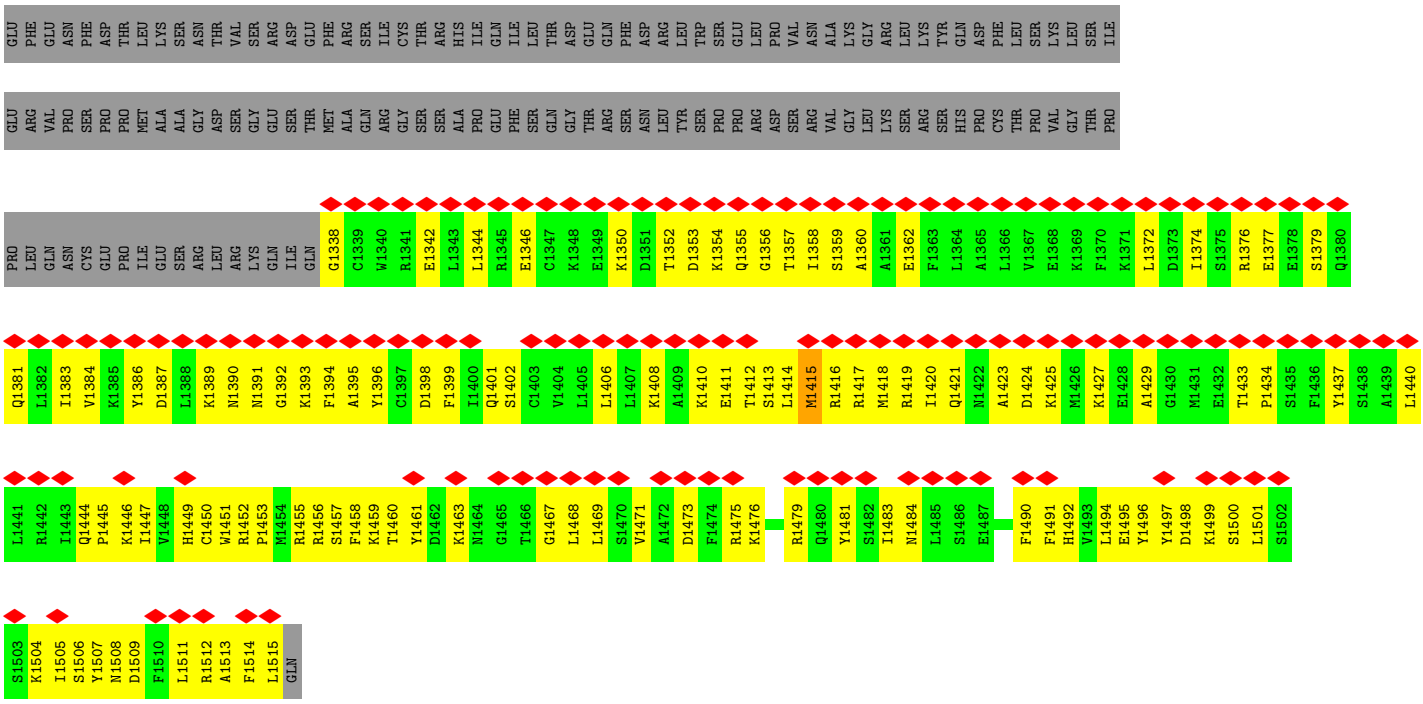




• Molecule 30: EF-hand calcium-binding domain-containing protein 6

Chain Q3:

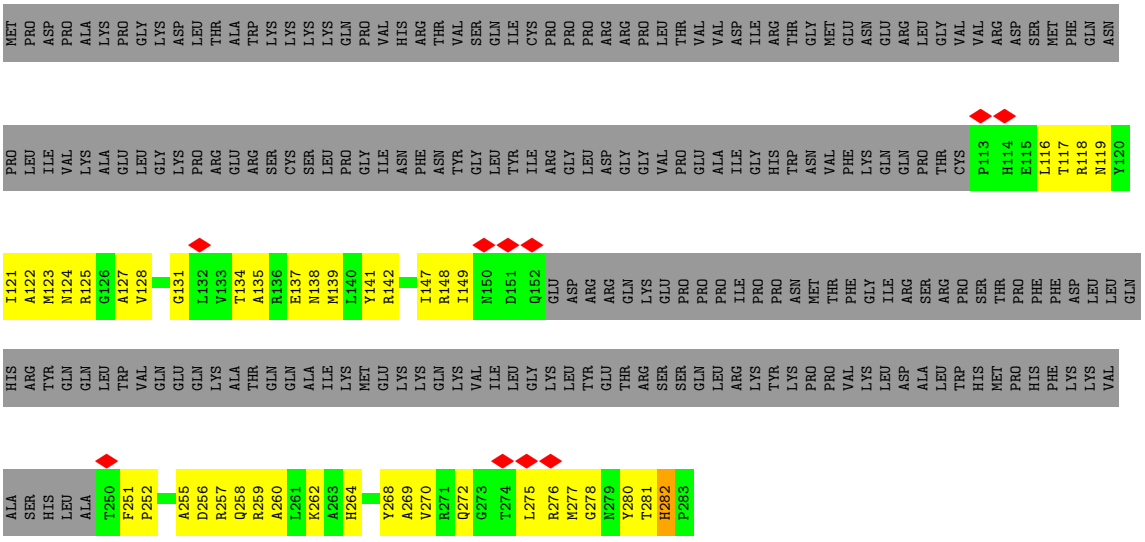




• Molecule 31: Cilia and flagella-associated protein 77

Chain R1:

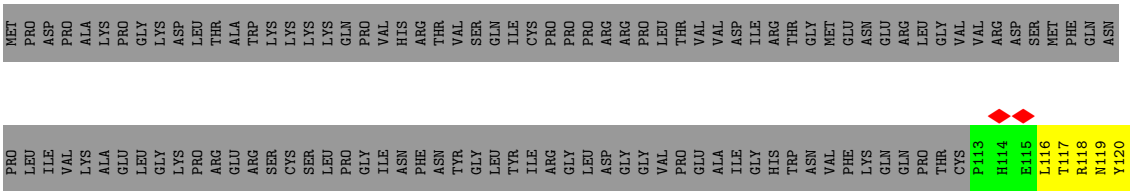


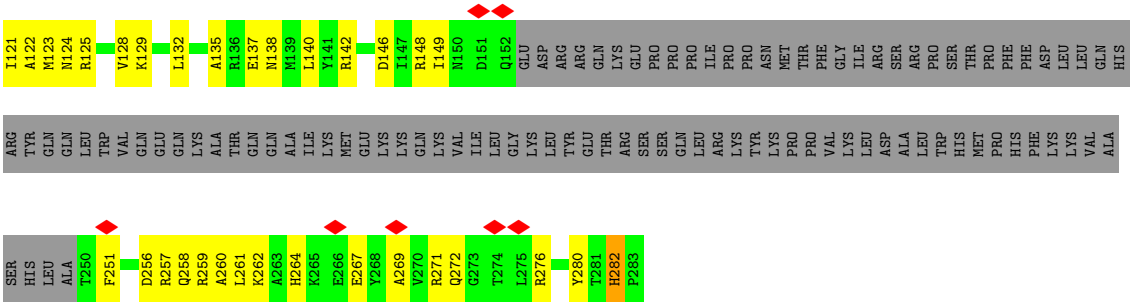


• Molecule 31: Cilia and flagella-associated protein 77

Chain R2:



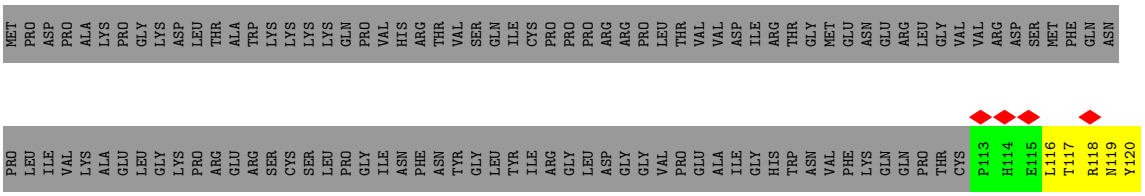


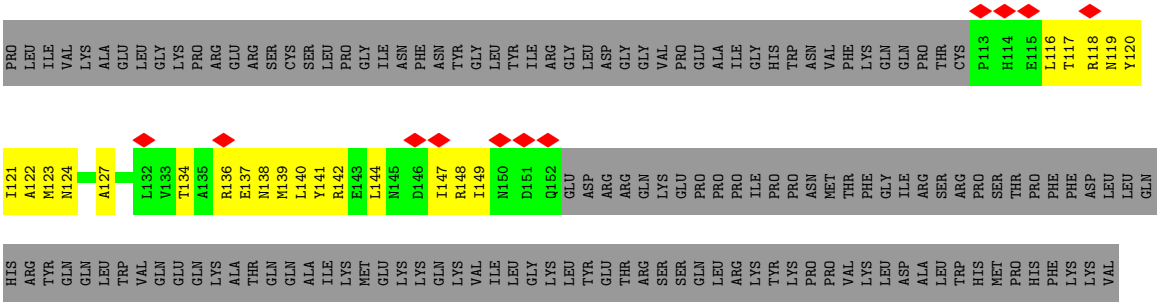


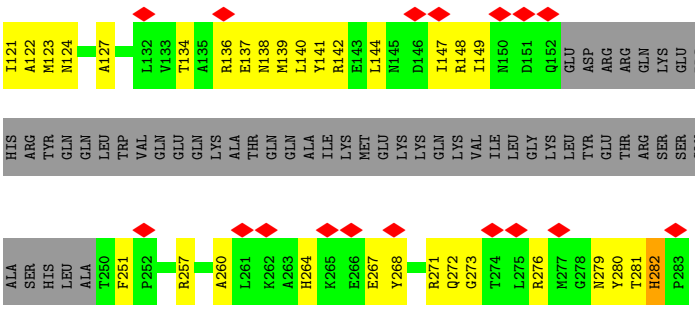
• Molecule 31: Cilia and flagella-associated protein 77

Chain R3:





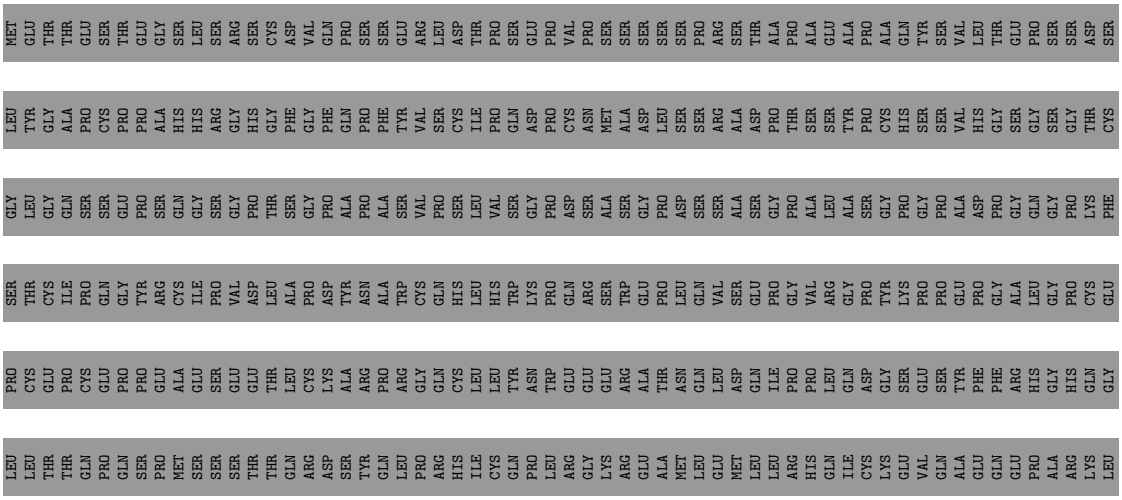


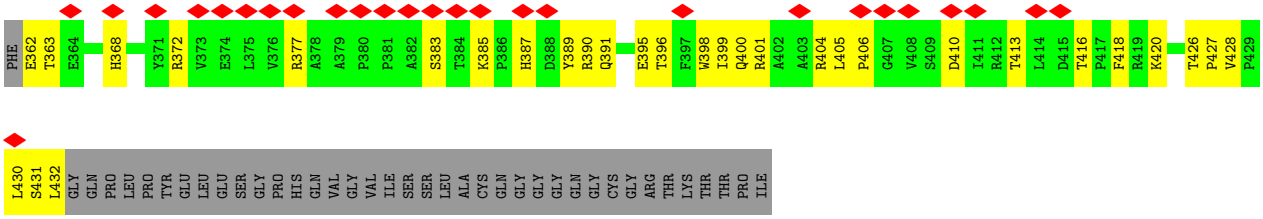


• Molecule 32: Sperm-associated antigen 8

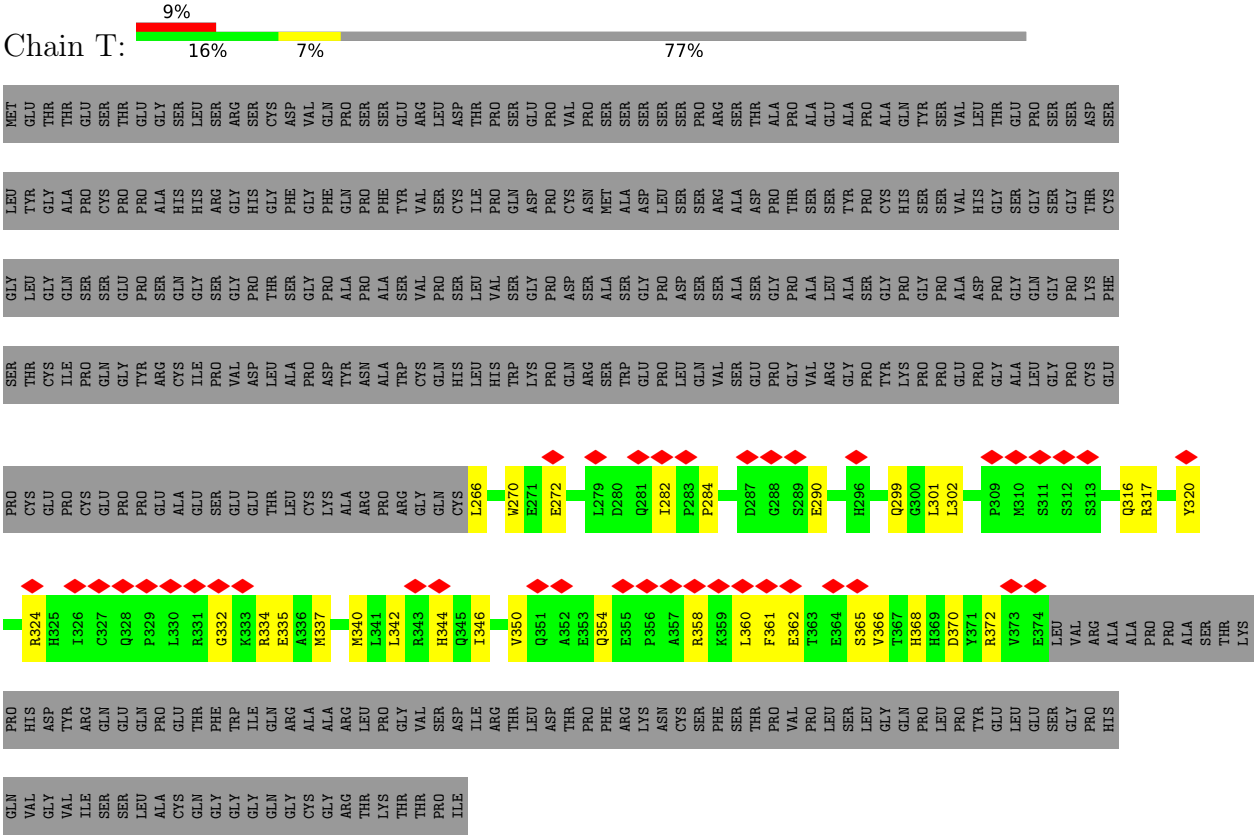
Chain S:



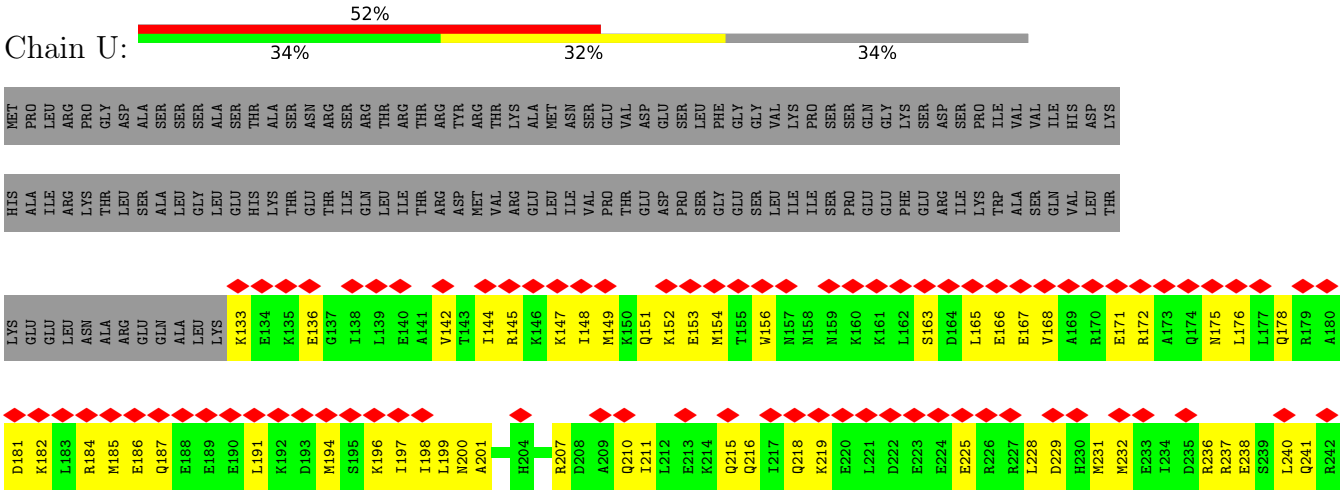


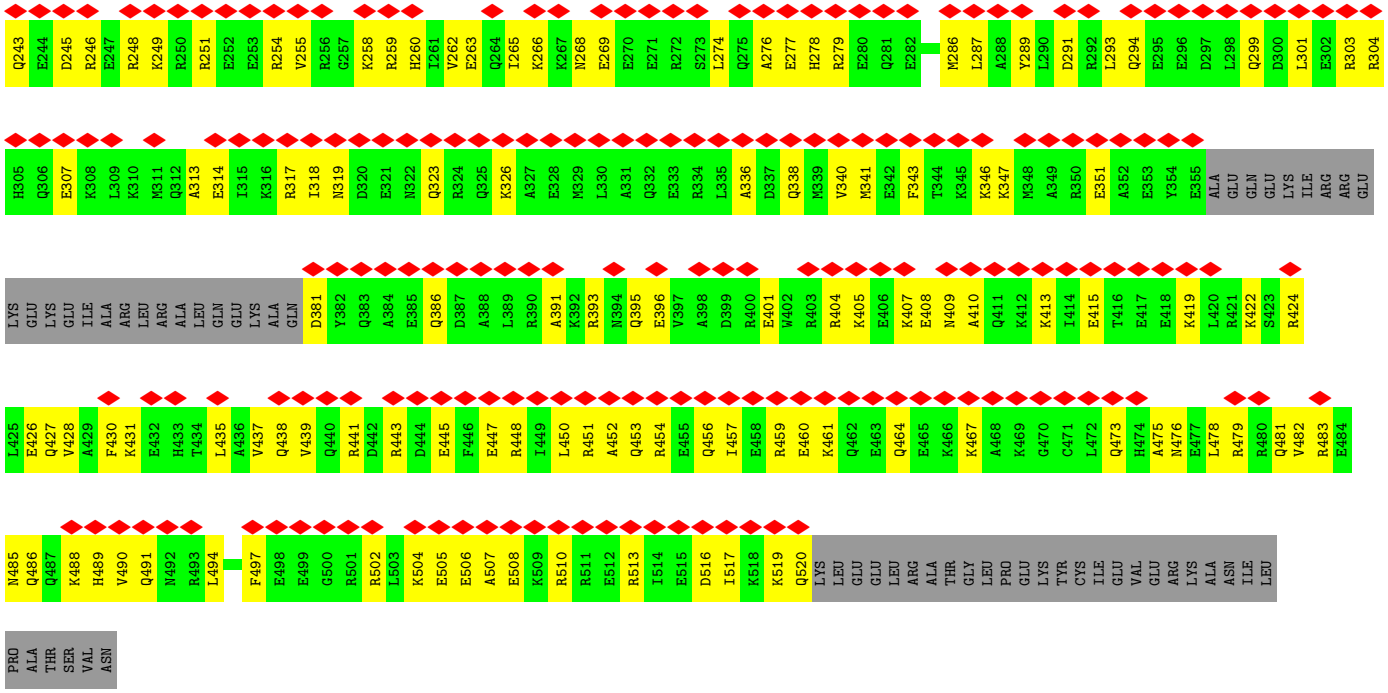


• Molecule 32: Sperm-associated antigen 8



• Molecule 33: Cilia- and flagella-associated protein 45

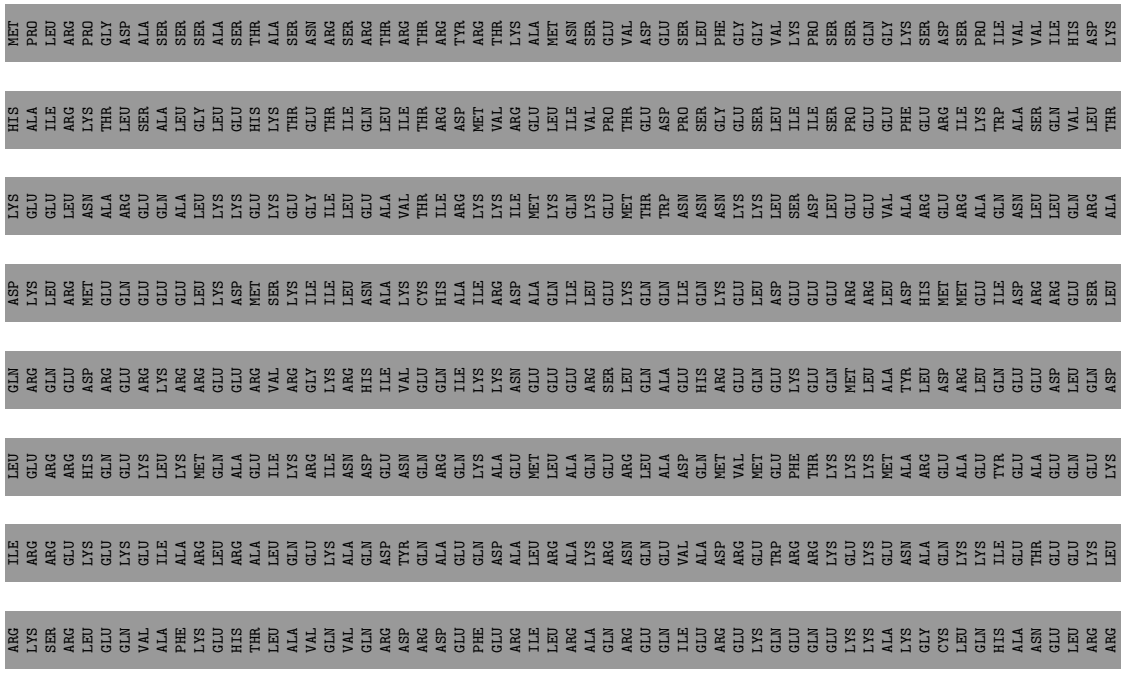




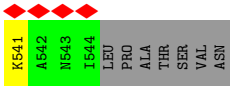
• Molecule 33: Cilia- and flagella-associated protein 45

Chain V:



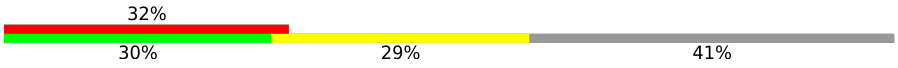


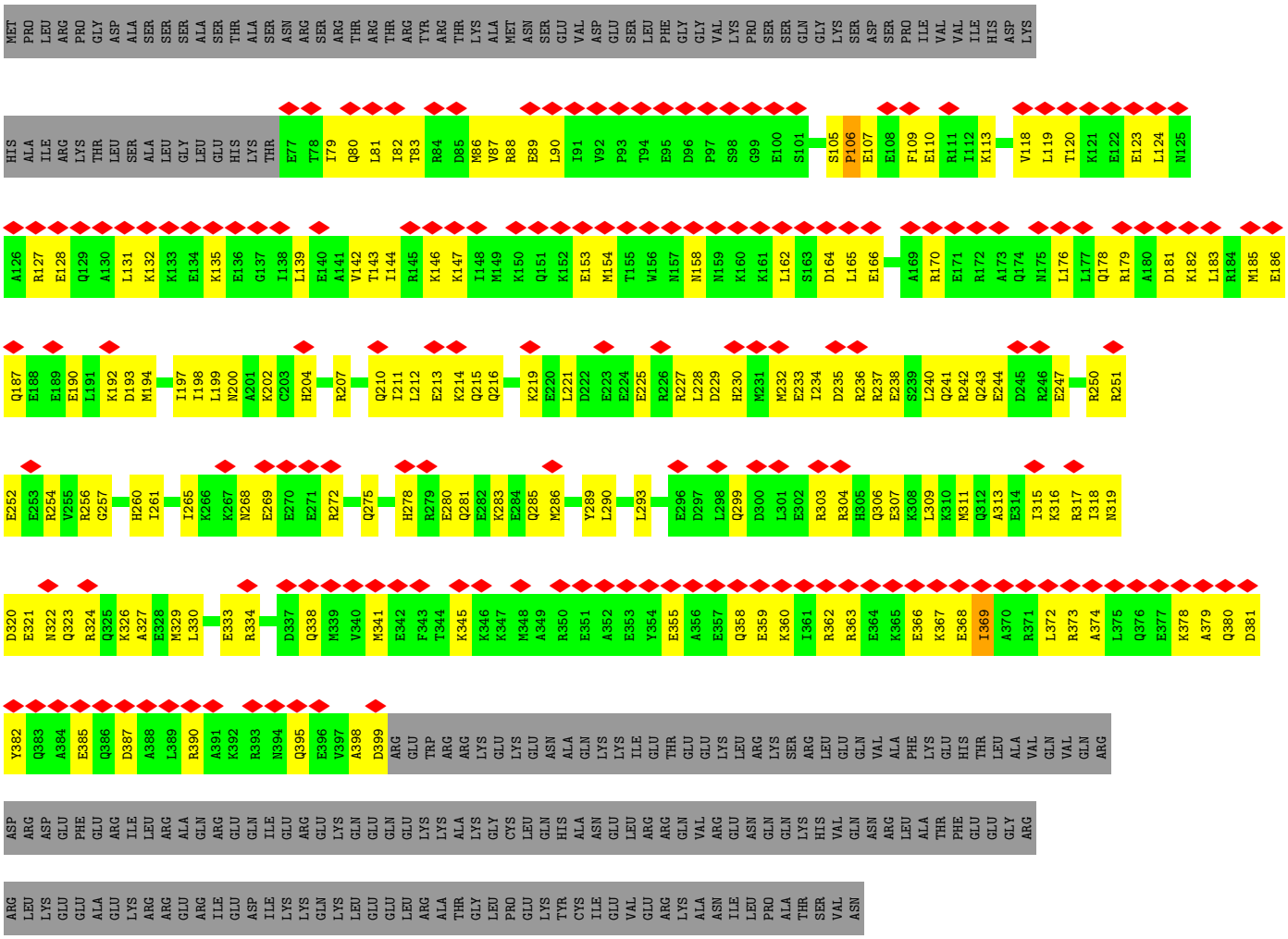




• Molecule 33: Cilia- and flagella-associated protein 45

Chain W:

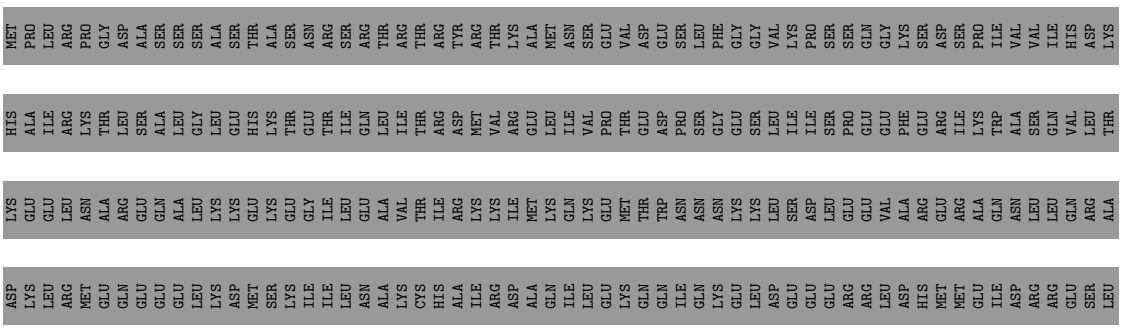


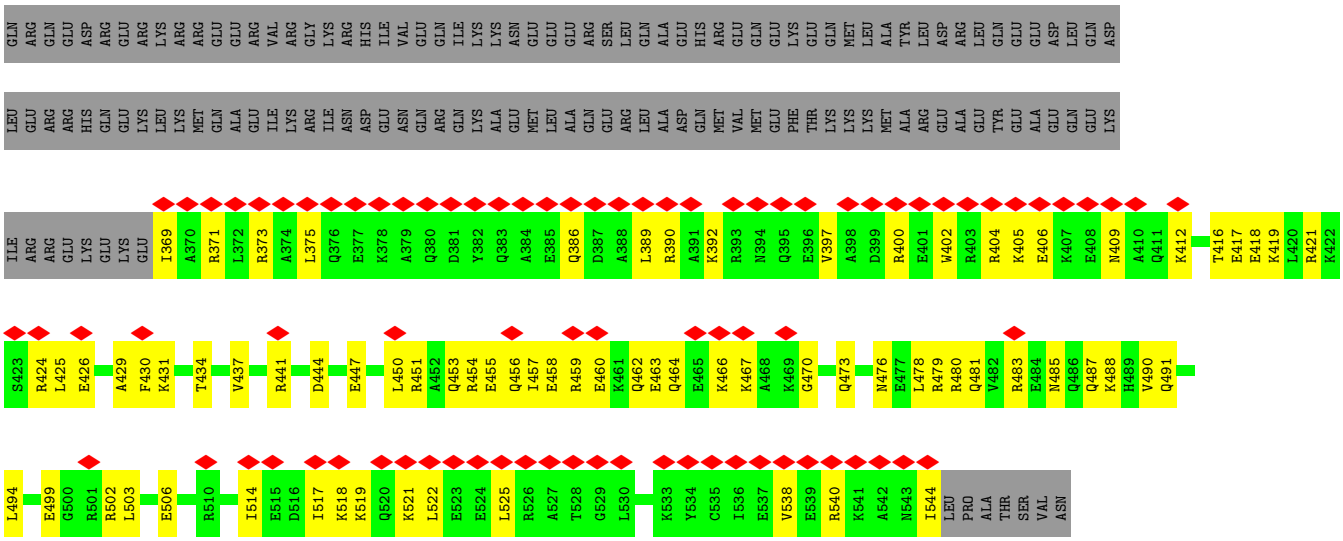


• Molecule 33: Cilia- and flagella-associated protein 45

Chain X:



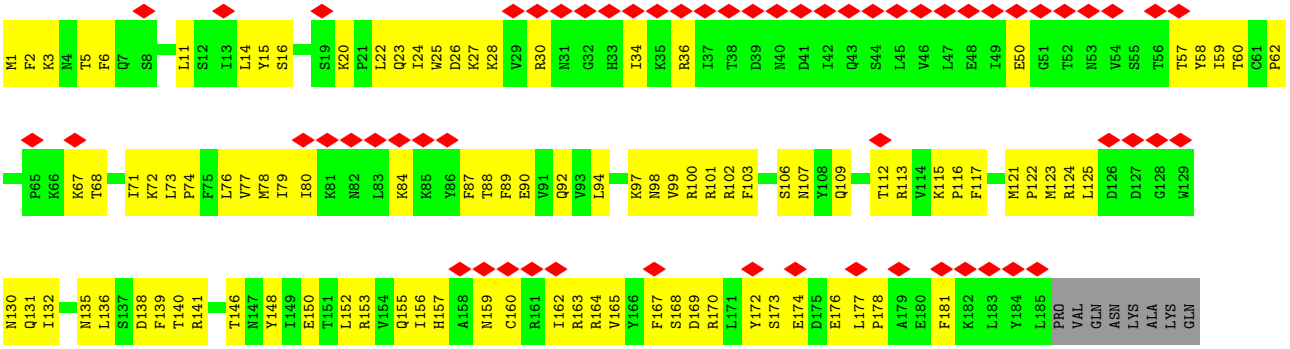




• Molecule 34: Cilia- and flagella-associated protein 20

Chain XA:

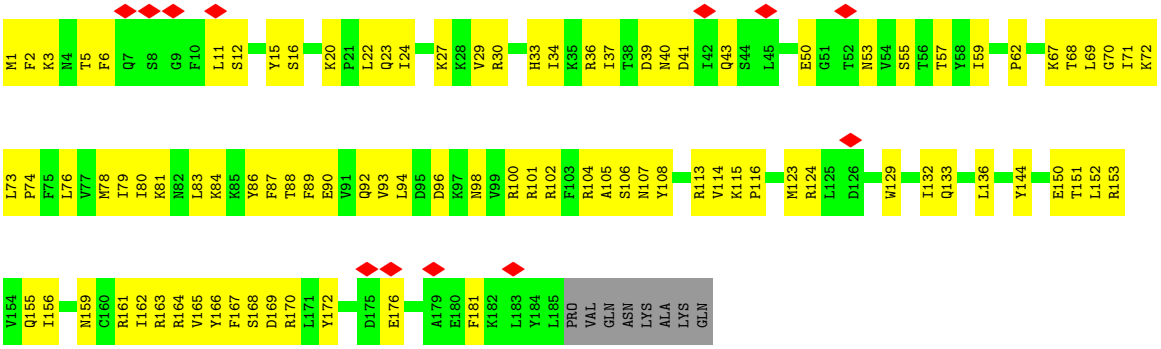




• Molecule 34: Cilia- and flagella-associated protein 20

Chain XB:

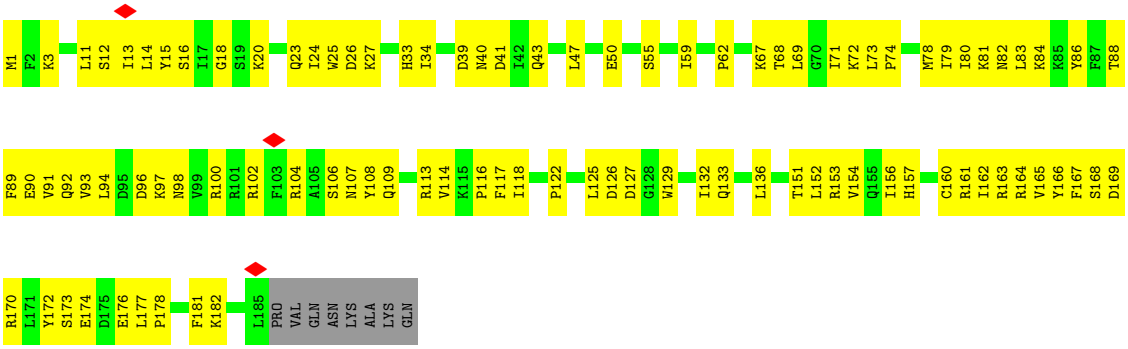




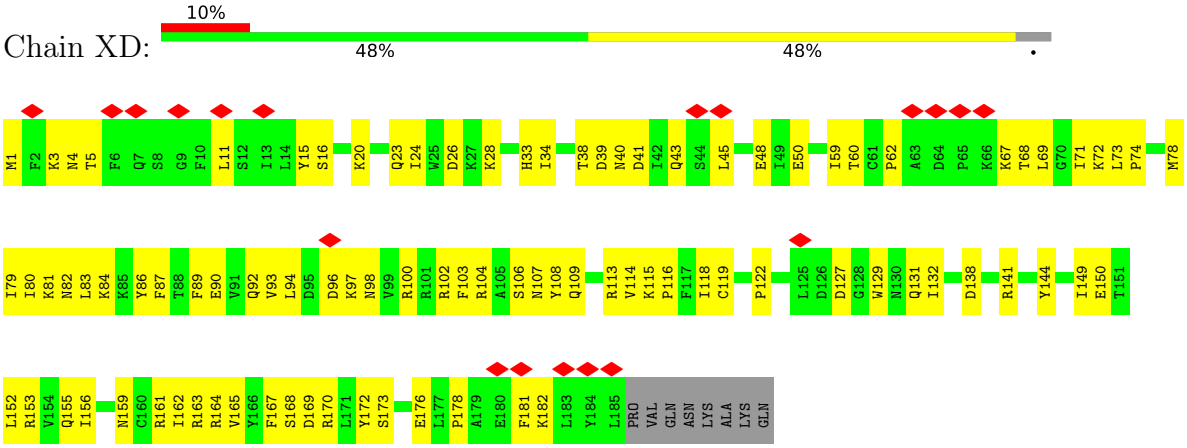
• Molecule 34: Cilia- and flagella-associated protein 20

Chain XC:

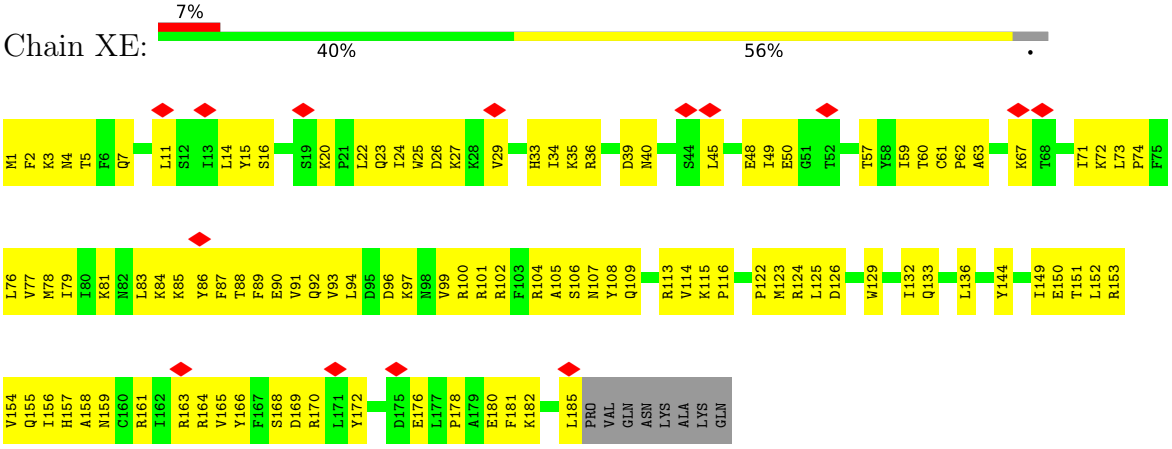




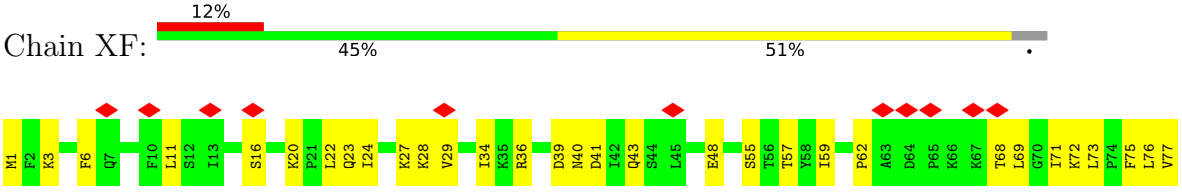
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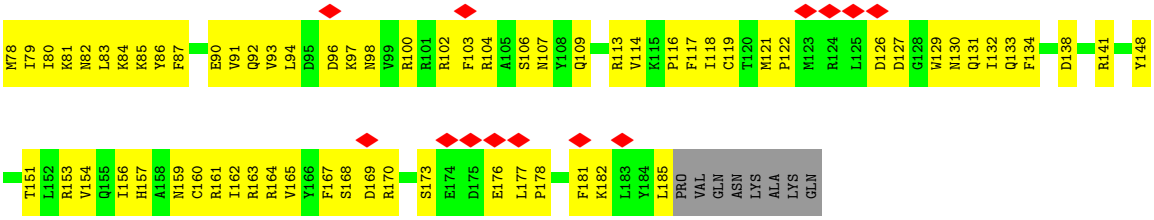


• Molecule 34: Cilia- and flagella-associated protein 20

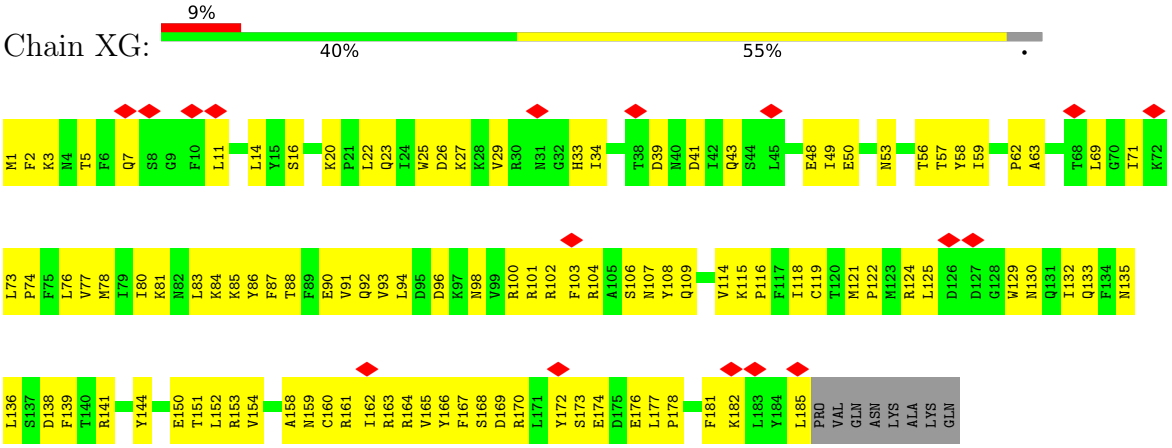


• Molecule 34: Cilia- and flagella-associated protein 20

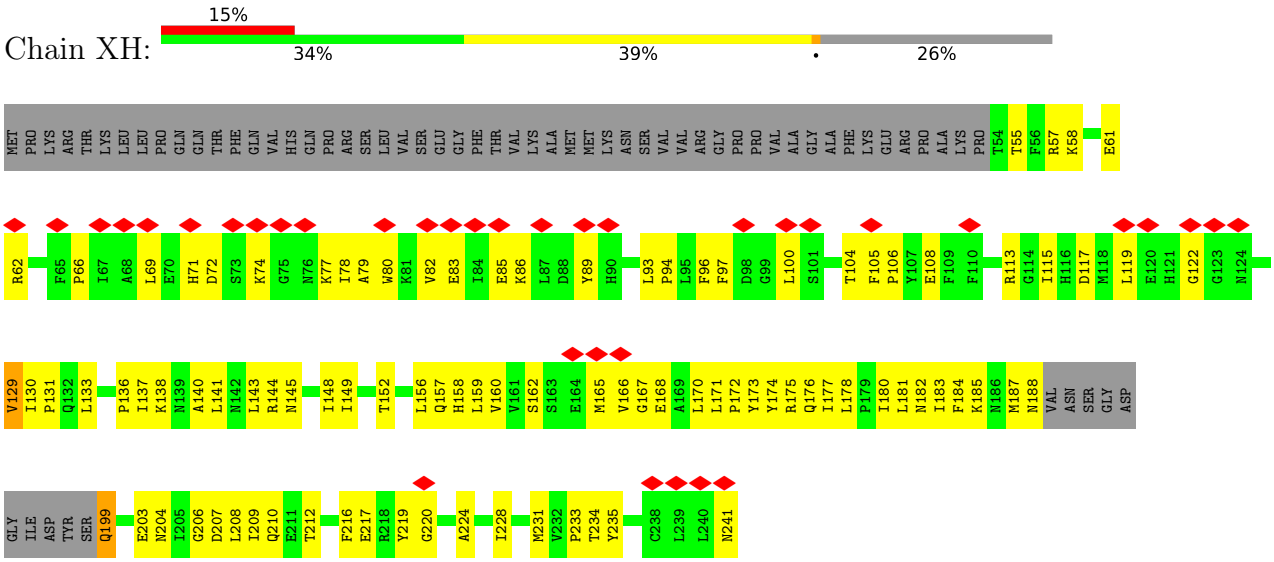




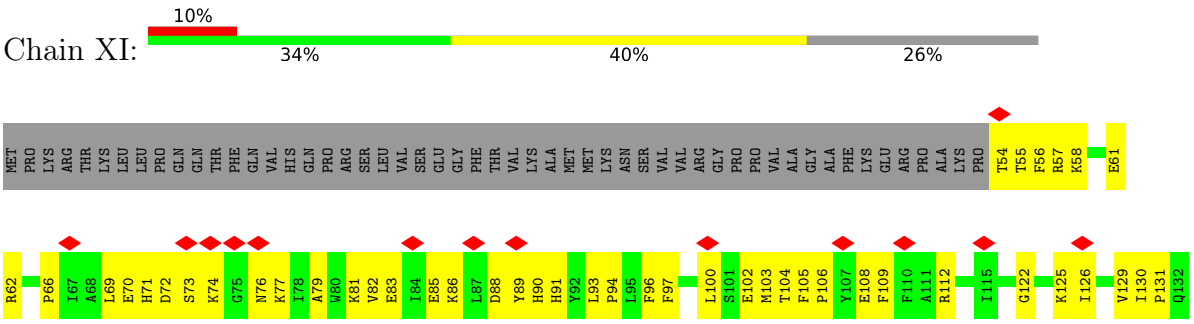
• Molecule 34: Cilia- and flagella-associated protein 20

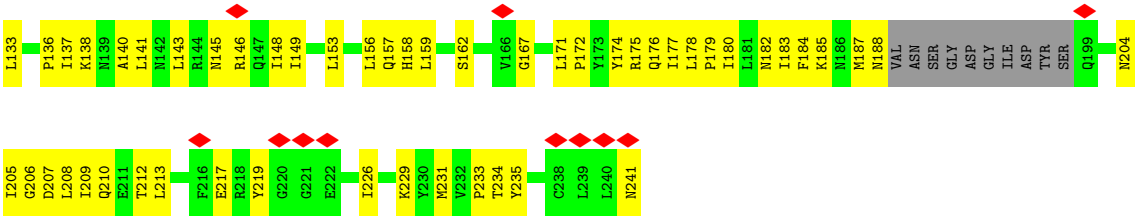


• Molecule 35: Parkin coregulated gene protein homolog

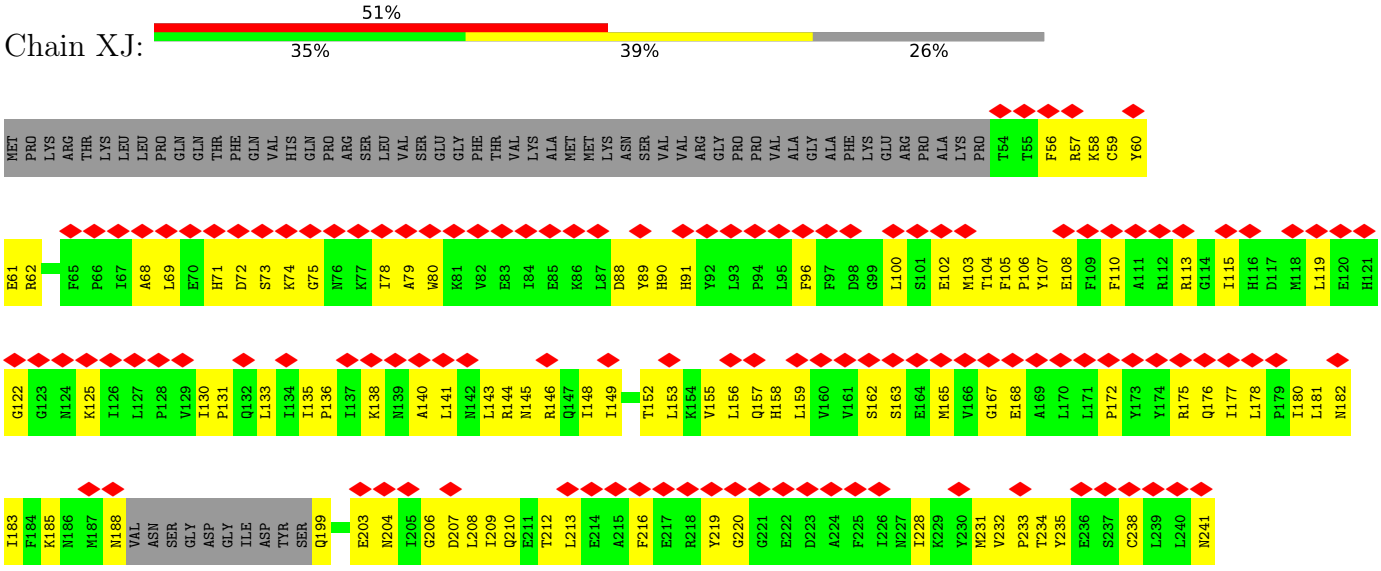


• Molecule 35: Parkin coregulated gene protein homolog

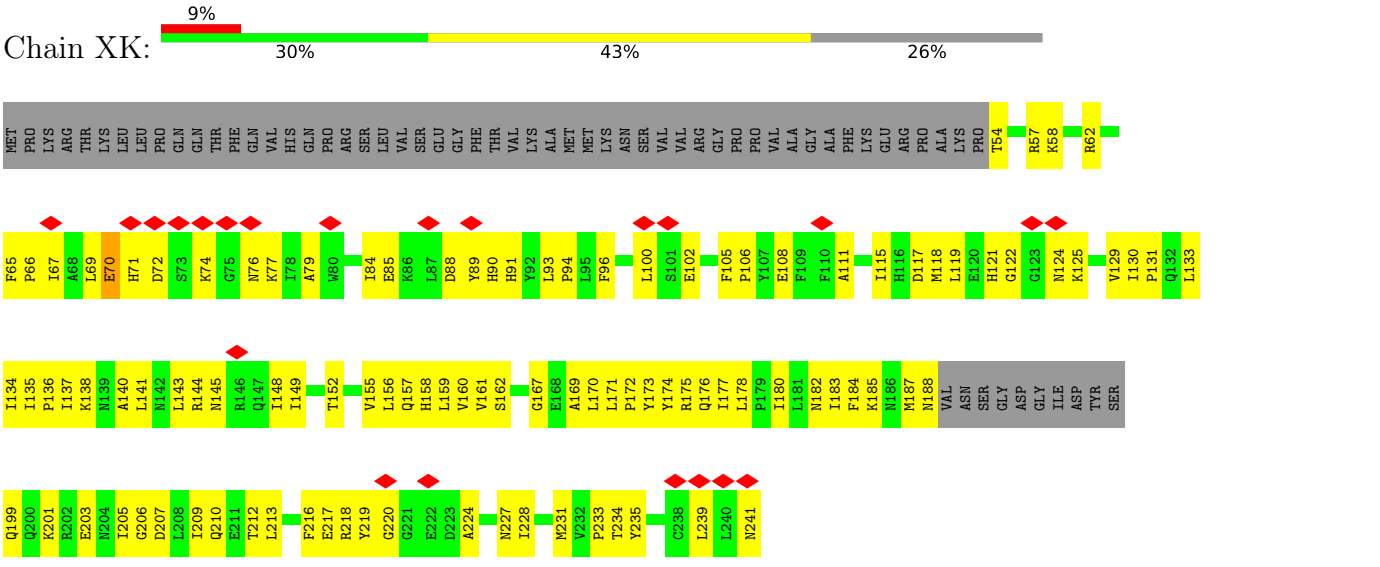




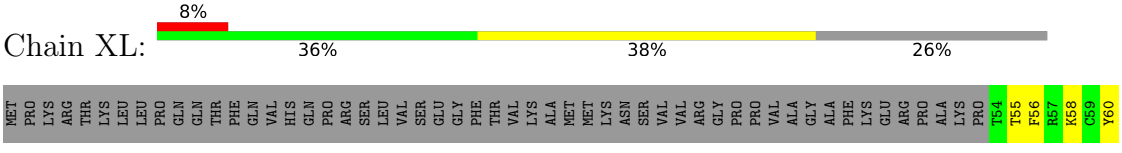
• Molecule 35: Parkin coregulated gene protein homolog

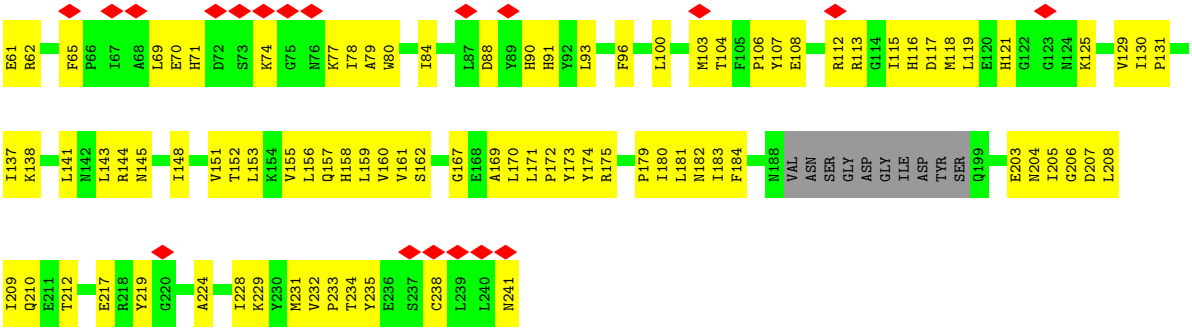


• Molecule 35: Parkin coregulated gene protein homolog



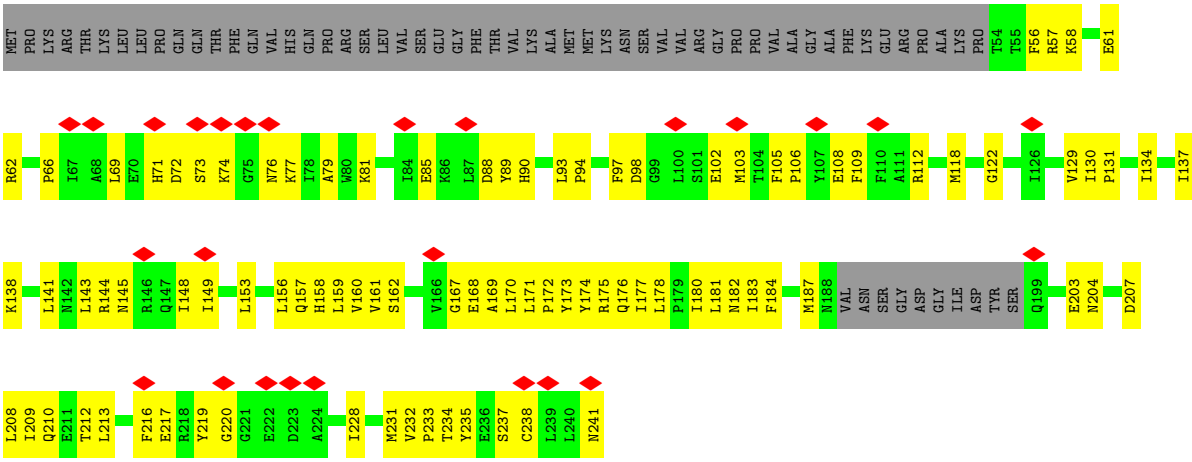
• Molecule 35: Parkin coregulated gene protein homolog





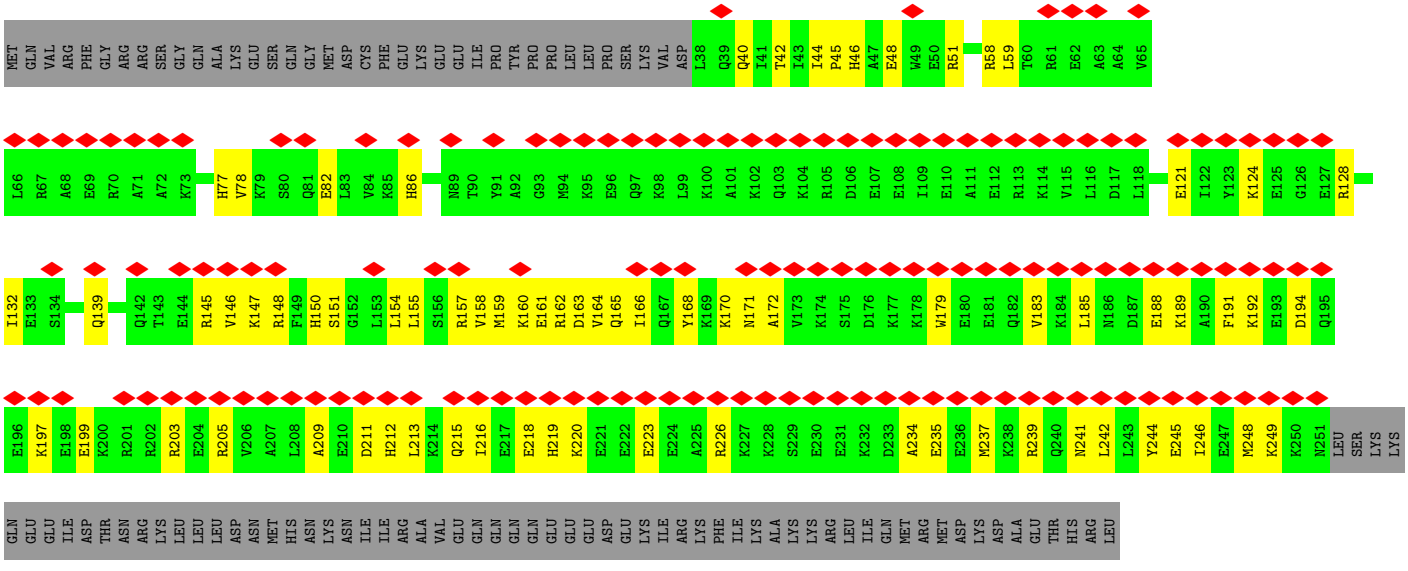
• Molecule 35: Parkin coregulated gene protein homolog

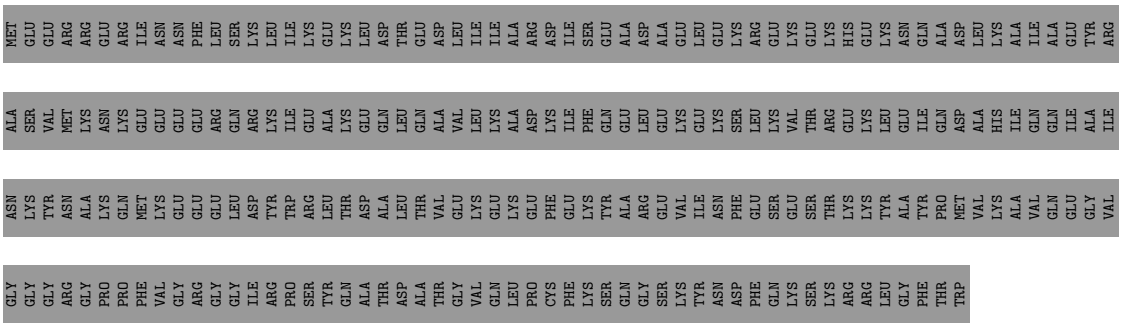




• Molecule 36: Cilia- and flagella-associated protein 210



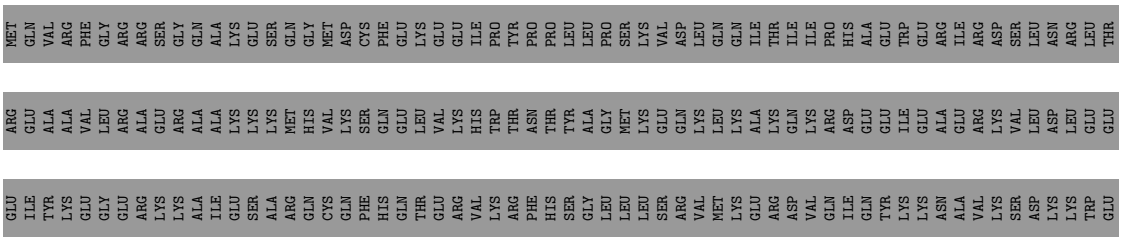


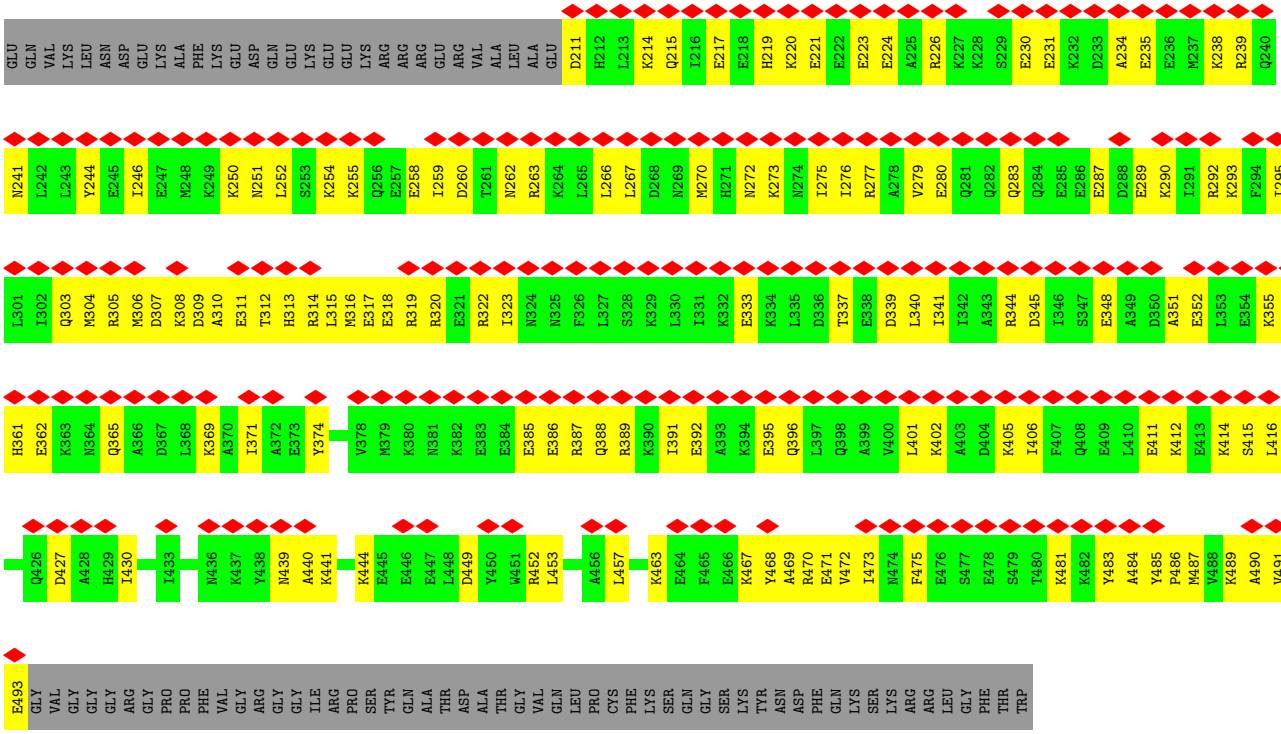


• Molecule 36: Cilia- and flagella-associated protein 210

Chain Z:



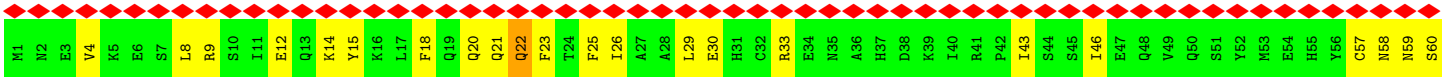


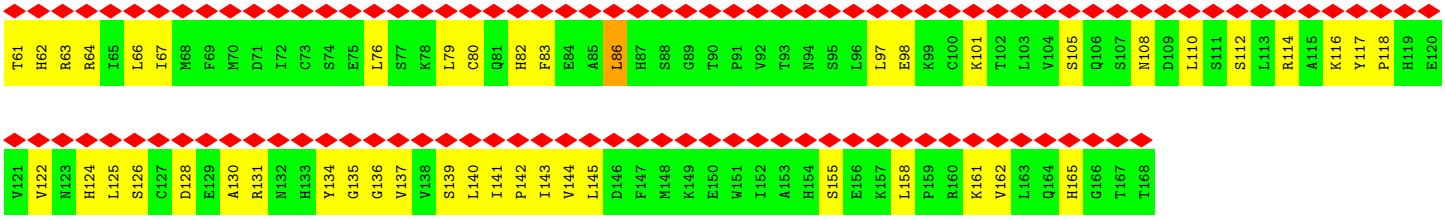


• Molecule 37: Sperm acrosome-associated protein 9

Chain YA:

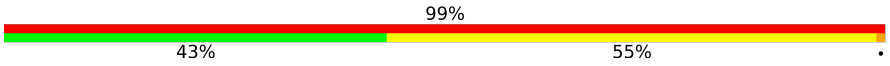


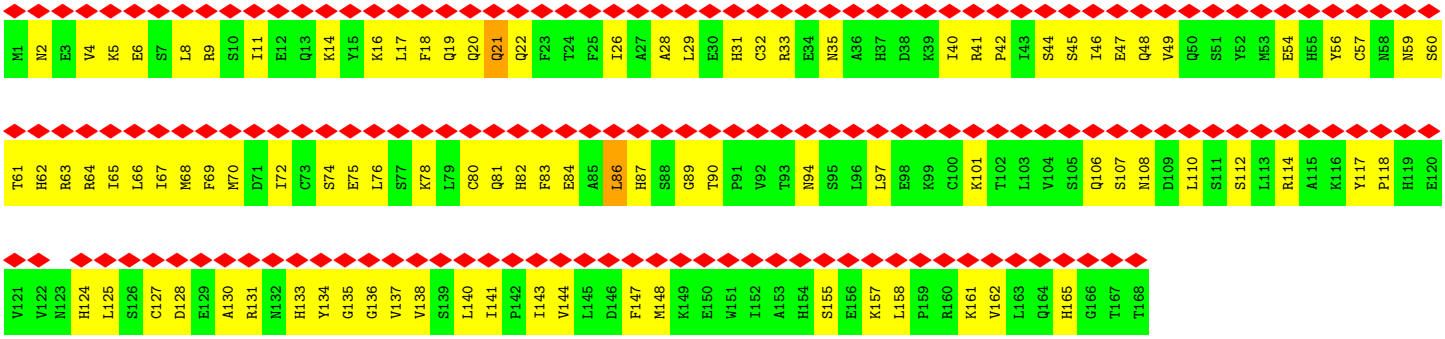




• Molecule 37: Sperm acrosome-associated protein 9

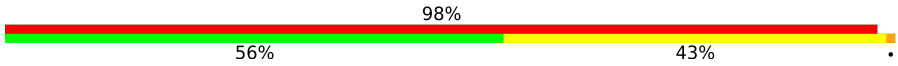
Chain YB:

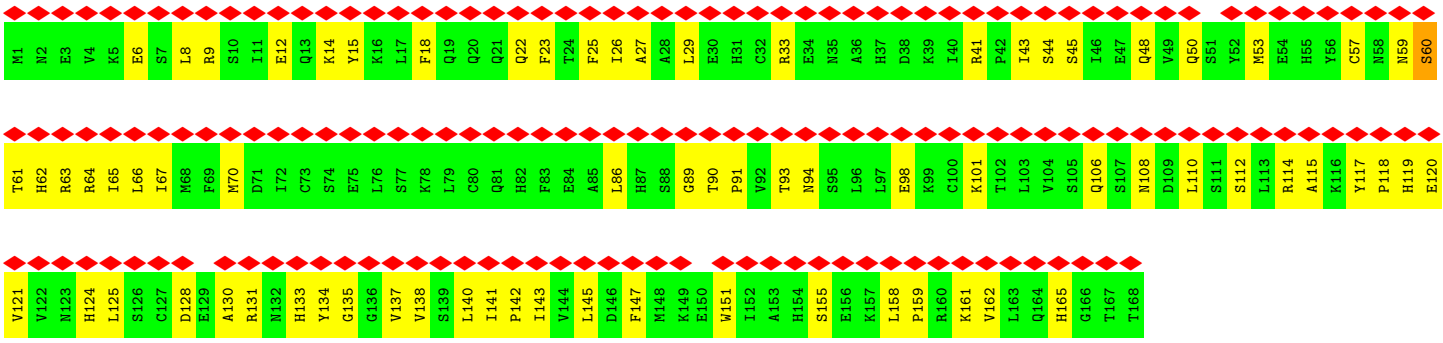




• Molecule 37: Sperm acrosome-associated protein 9

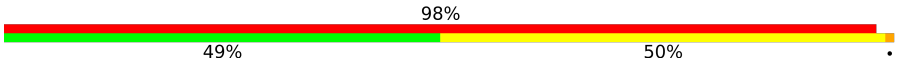
Chain YC:

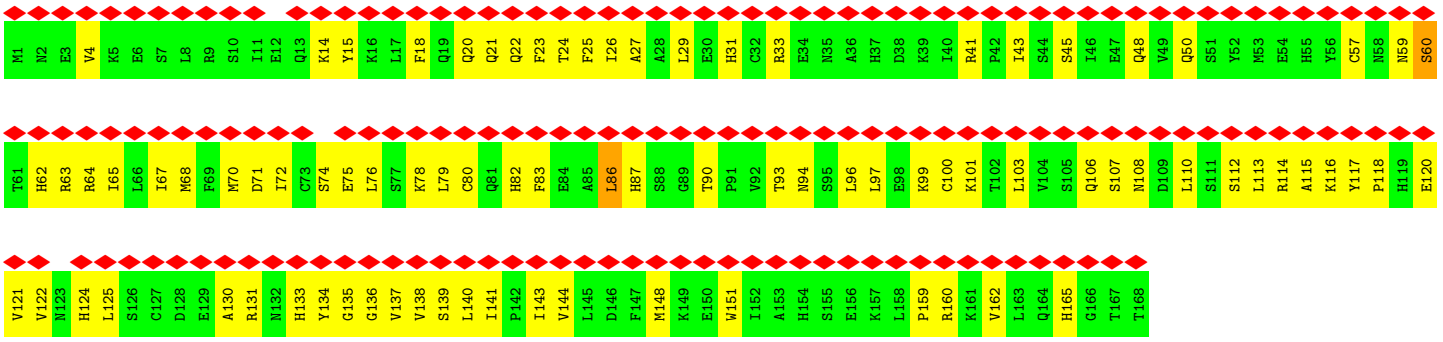




• Molecule 37: Sperm acrosome-associated protein 9

Chain YD:

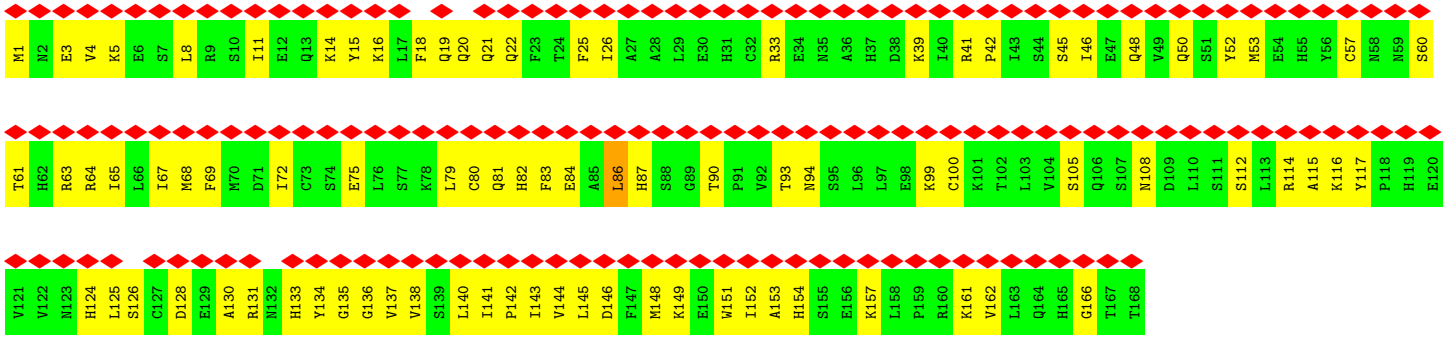




• Molecule 37: Sperm acrosome-associated protein 9

Chain YE:

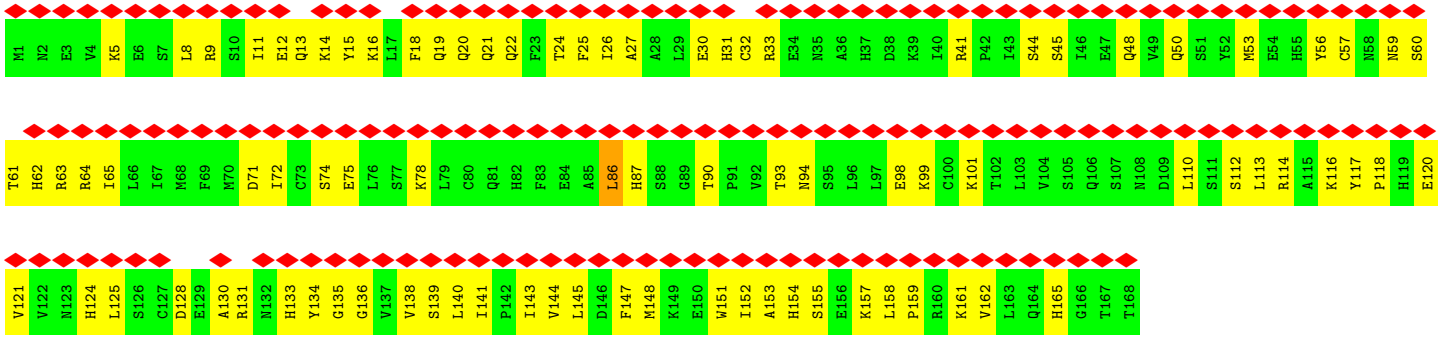




• Molecule 37: Sperm acrosome-associated protein 9

Chain YF:

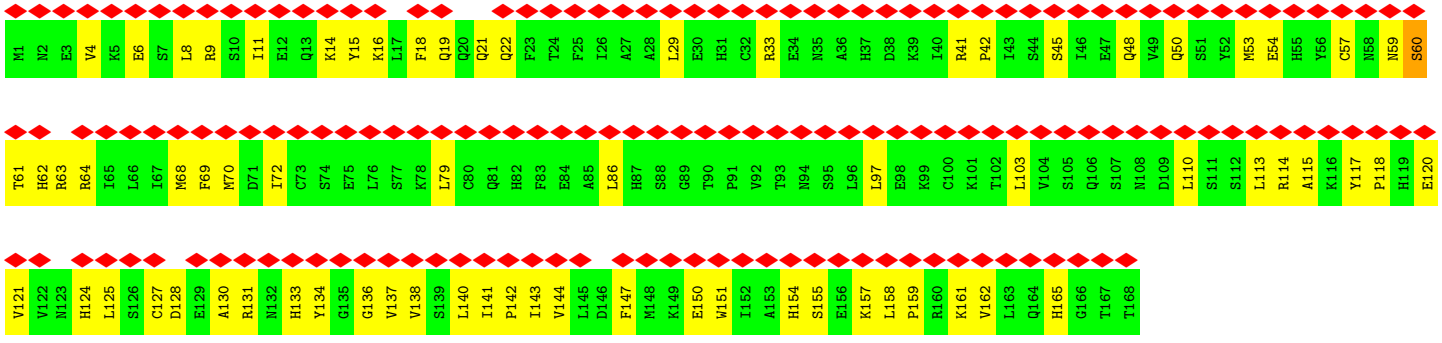




• Molecule 37: Sperm acrosome-associated protein 9

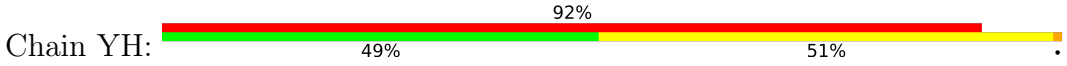
Chain YG:

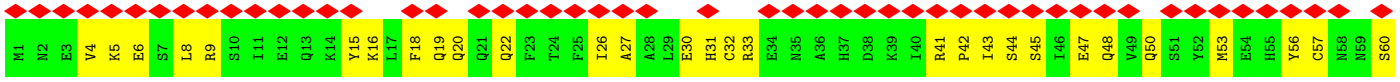


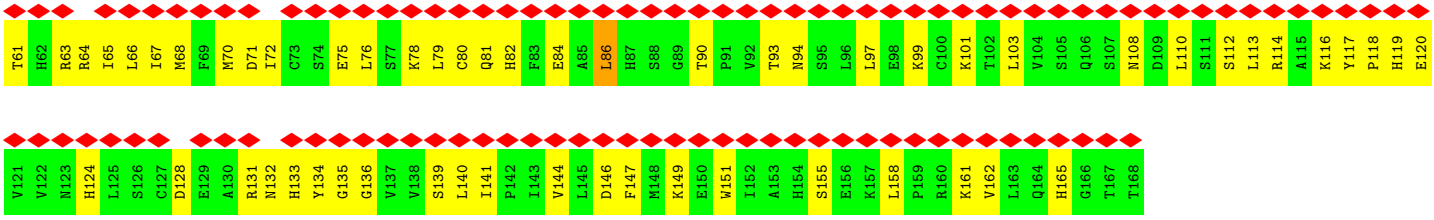


• Molecule 37: Sperm acrosome-associated protein 9

Chain YH:

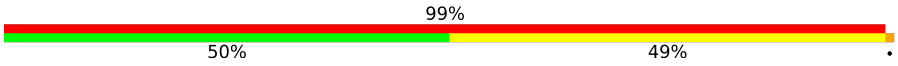


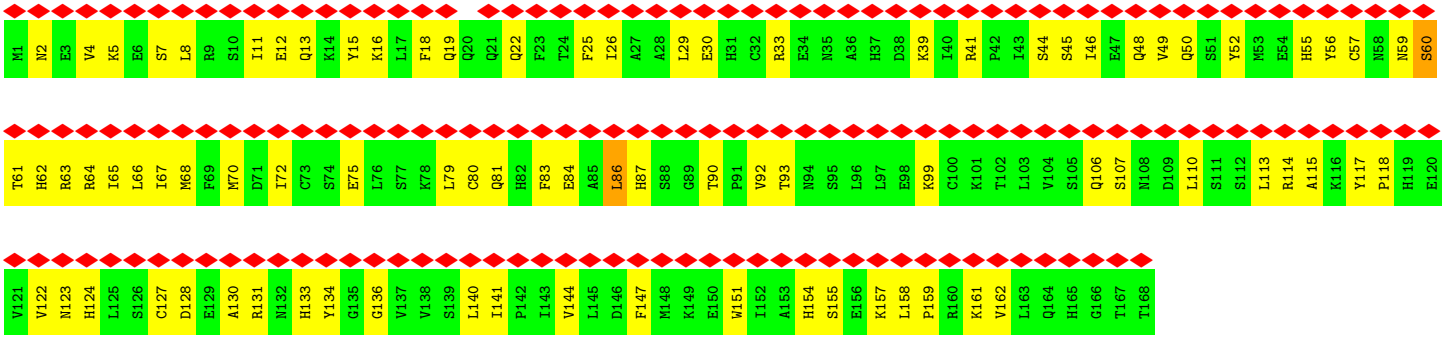




• Molecule 37: Sperm acrosome-associated protein 9

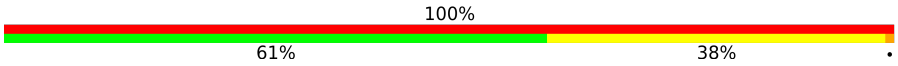
Chain YI:

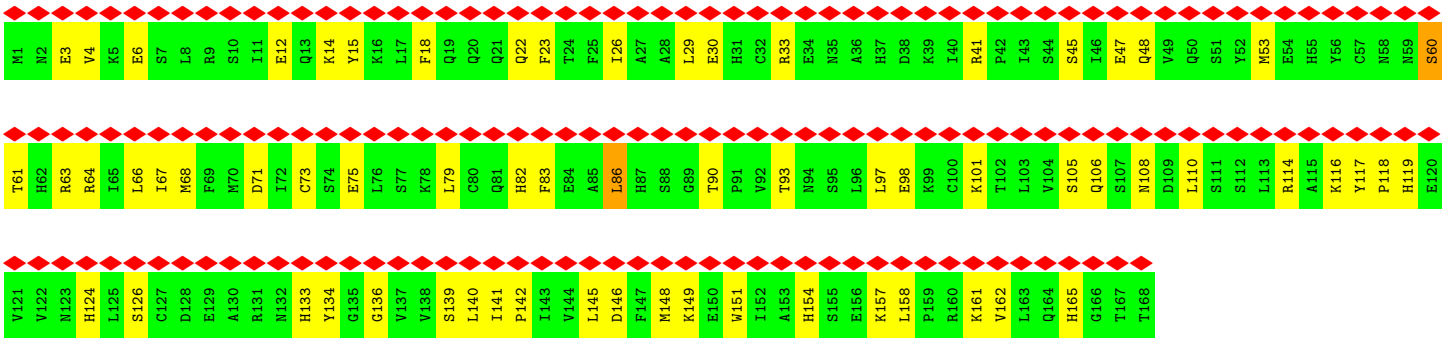




• Molecule 37: Sperm acrosome-associated protein 9

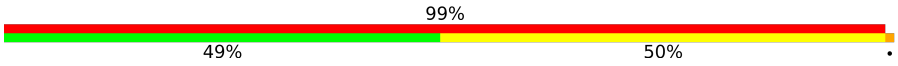
Chain YJ:

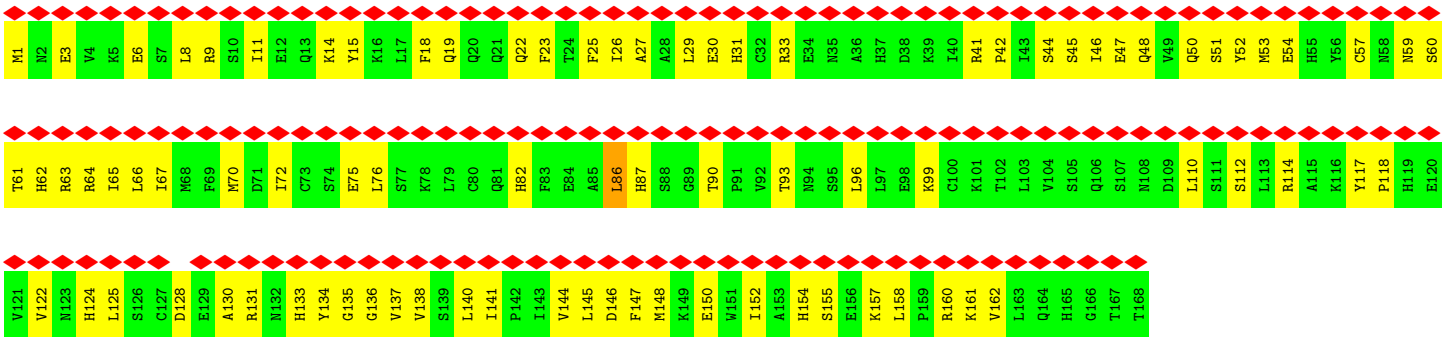




• Molecule 37: Sperm acrosome-associated protein 9

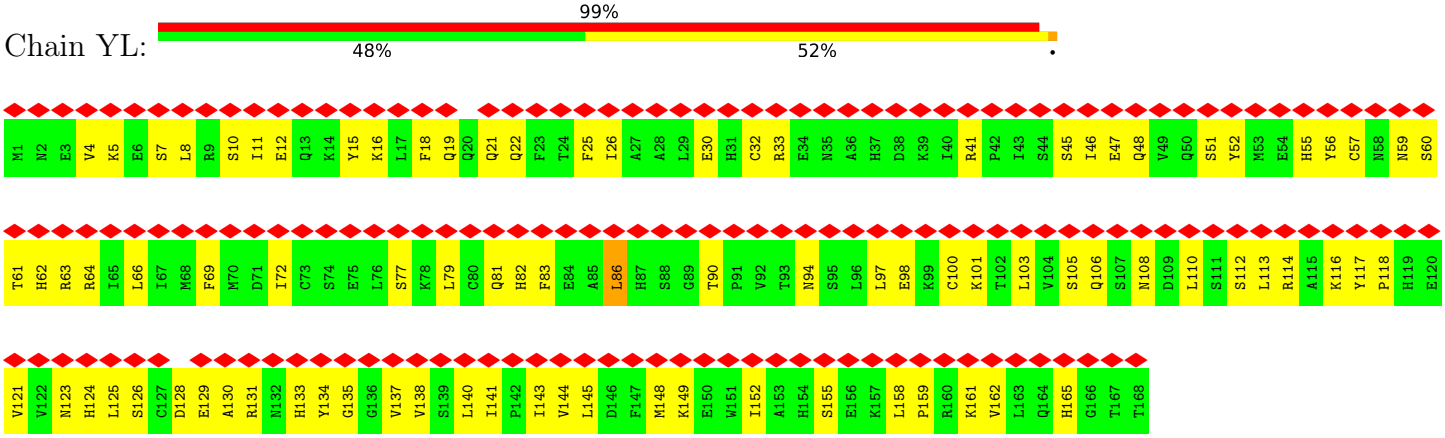
Chain YK:





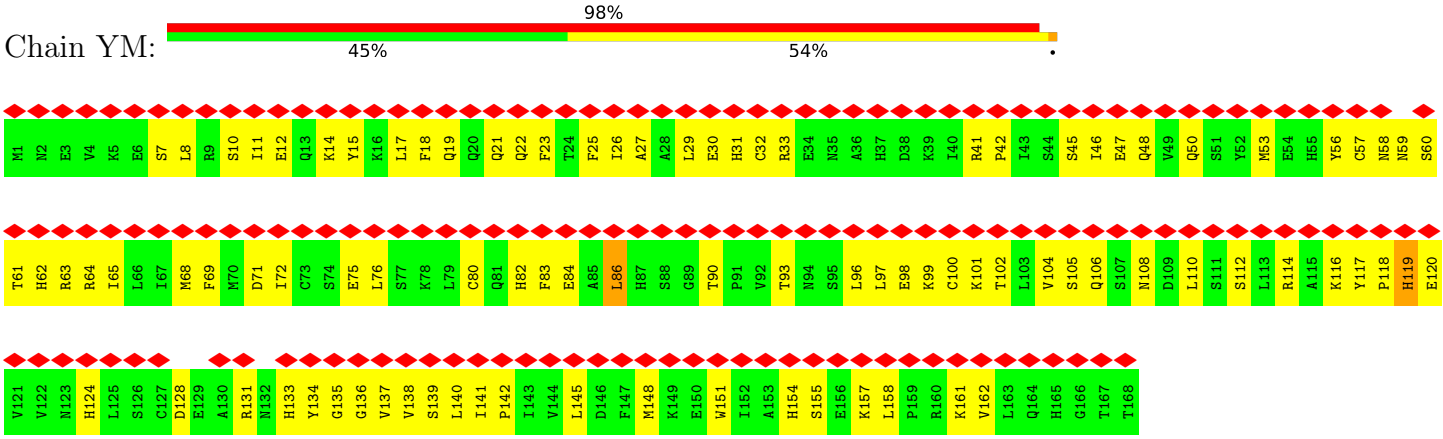
• Molecule 37: Sperm acrosome-associated protein 9

Chain YL:



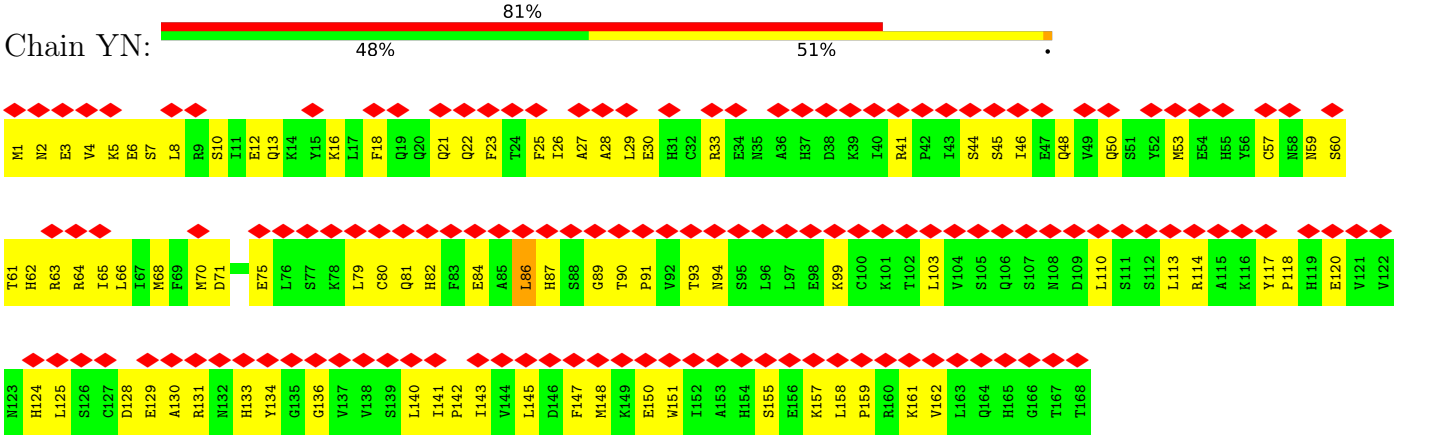
• Molecule 37: Sperm acrosome-associated protein 9

Chain YM:



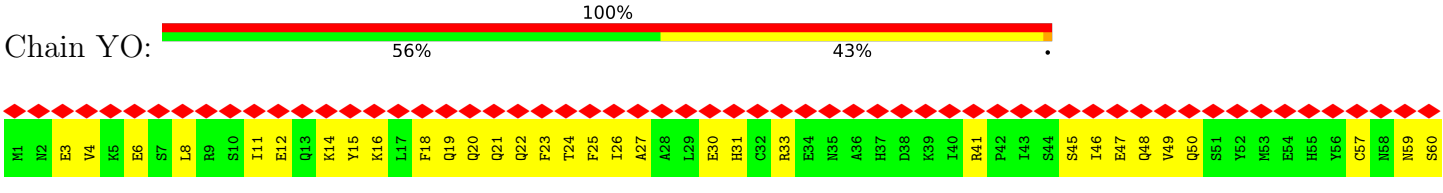
• Molecule 37: Sperm acrosome-associated protein 9

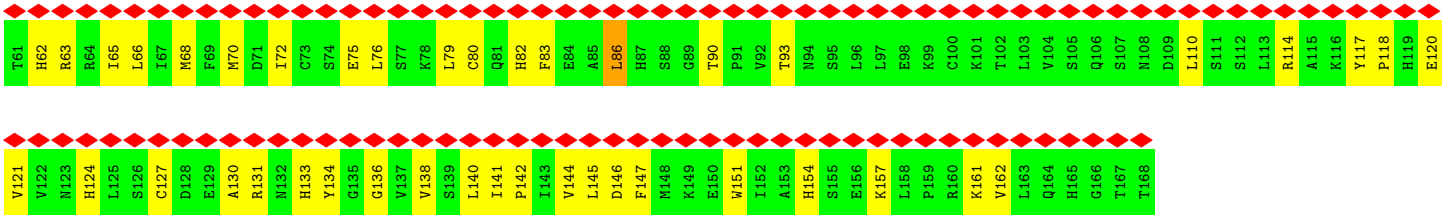
Chain YN:



• Molecule 37: Sperm acrosome-associated protein 9

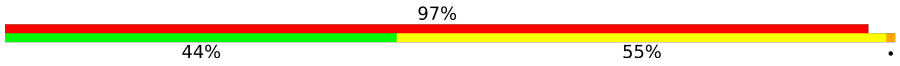
Chain YO:

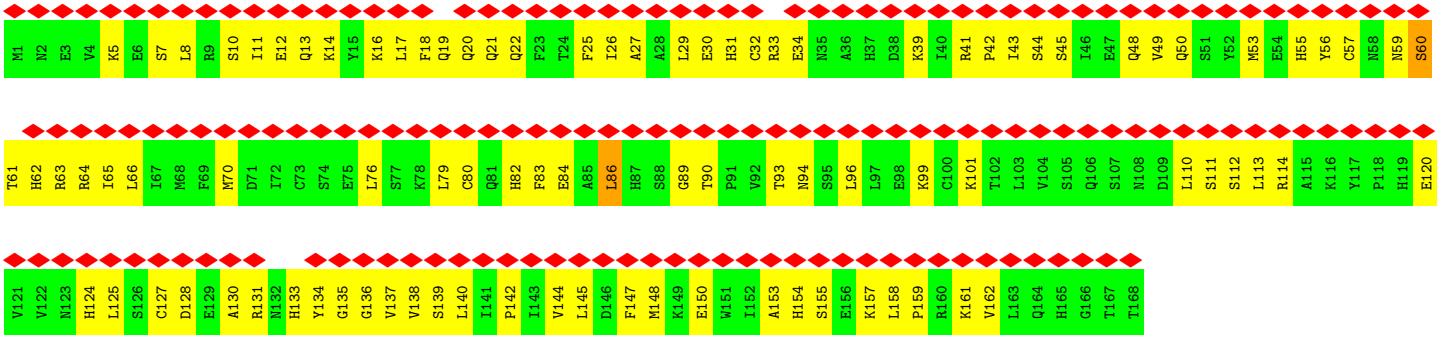




• Molecule 37: Sperm acrosome-associated protein 9

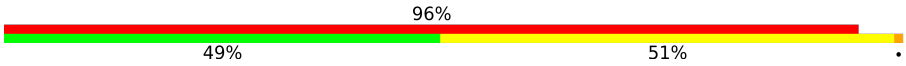
Chain YP:





• Molecule 37: Sperm acrosome-associated protein 9

Chain YQ:

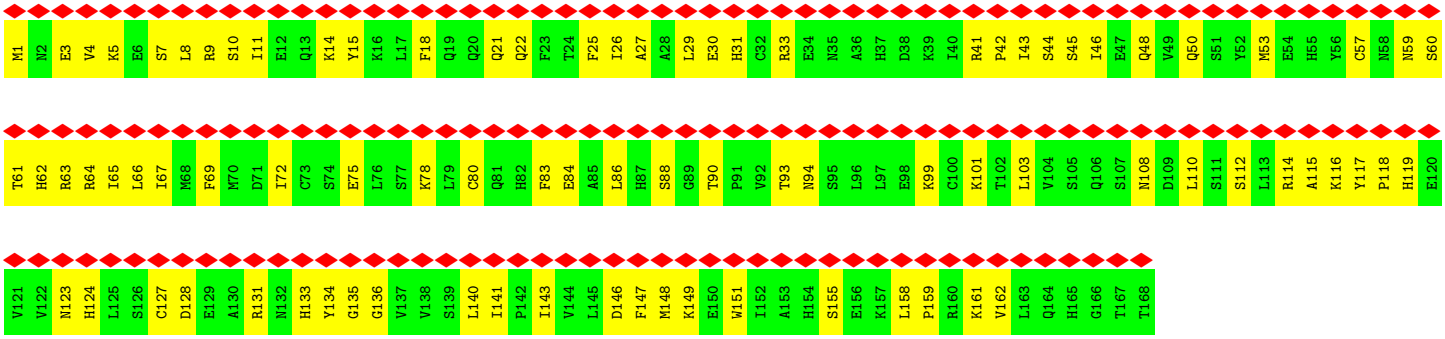




• Molecule 37: Sperm acrosome-associated protein 9

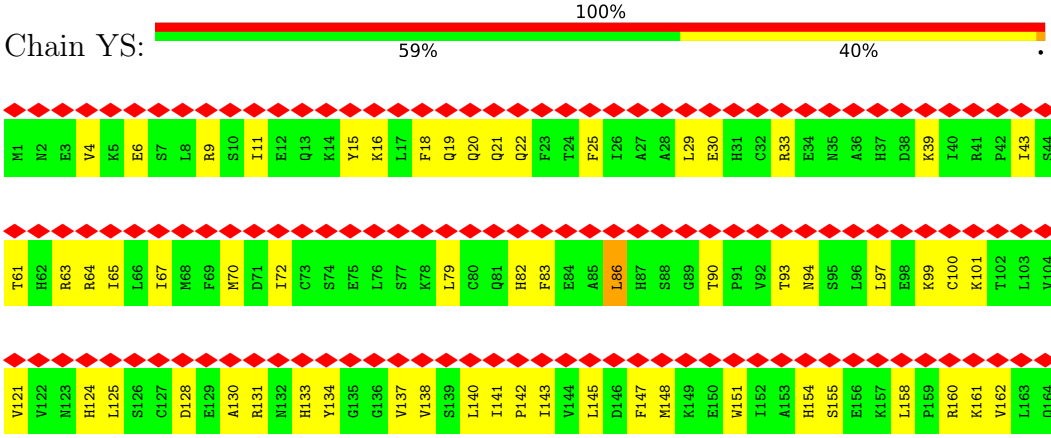
Chain YR:





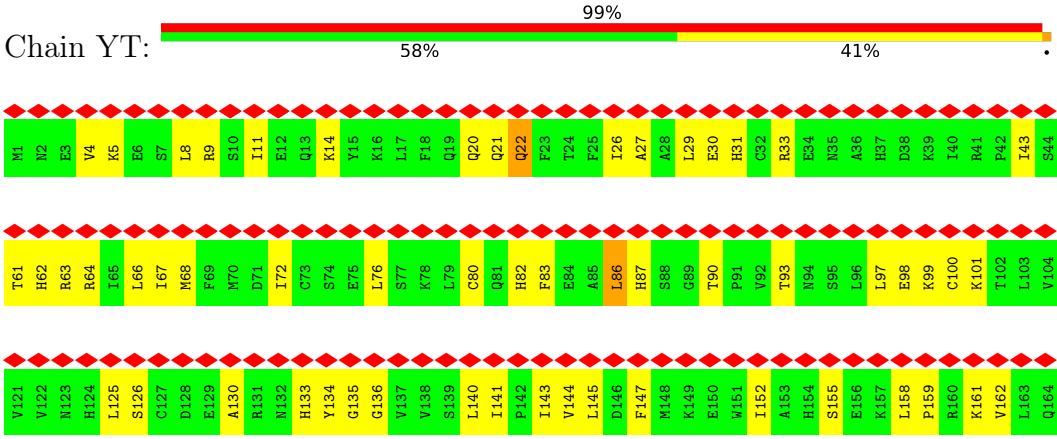
• Molecule 37: Sperm acrosome-associated protein 9

Chain YS:



• Molecule 37: Sperm acrosome-associated protein 9

Chain YT:



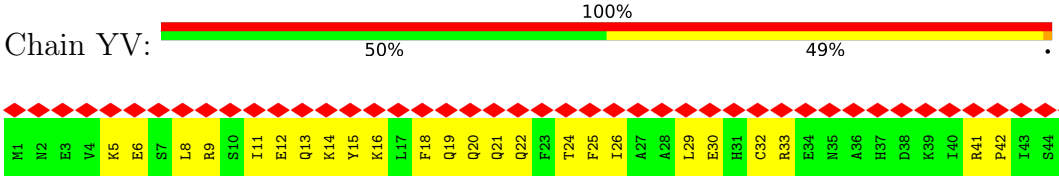
• Molecule 37: Sperm acrosome-associated protein 9

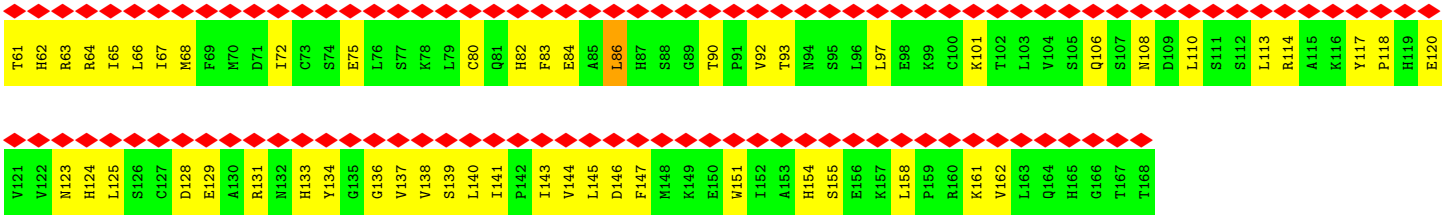
Chain YU:



• Molecule 37: Sperm acrosome-associated protein 9

Chain YV:

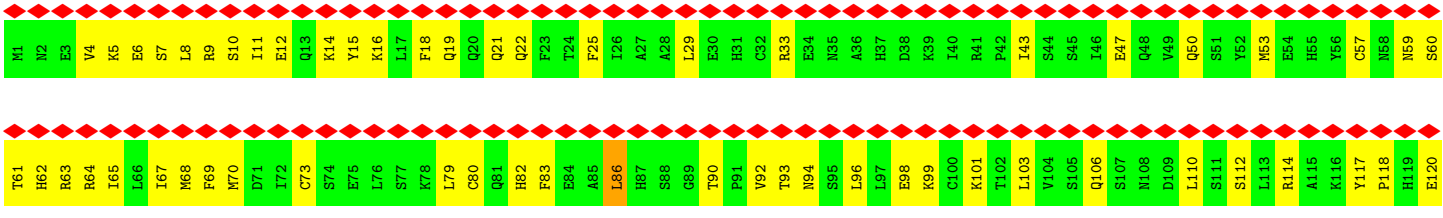




• Molecule 37: Sperm acrosome-associated protein 9

Chain YW:





• Molecule 38: Cilia- and flagella-associated protein 141

Chain a:





4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SUBTOMOGRAM AVERAGING	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of subtomograms used	17450	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	117	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	5000	Depositor
Magnification	Not provided	
Image detector	GATAN K2 QUANTUM (4k x 4k)	Depositor
Maximum map value	0.009	Depositor
Minimum map value	0.000	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.001	Depositor
Recommended contour level	0.003	Depositor
Map size (Å)	563.2, 563.2, 563.2	wwPDB
Map dimensions	320, 320, 320	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.76, 1.76, 1.76	Depositor

5 Model quality

5.1 Standard geometry

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	A	0.12	0/2754	0.40	0/3652
1	B	0.13	0/1684	0.44	0/2233
2	A1	0.23	0/2604	0.53	0/3506
2	A2	0.27	0/3290	0.57	0/4433
2	A3	0.28	0/3290	0.56	0/4433
2	A4	0.24	0/1583	0.47	0/2133
3	AB	0.14	0/3431	0.42	2/4649 (0.0%)
3	AD	0.14	0/3431	0.39	0/4649
3	AF	0.14	0/3431	0.42	2/4649 (0.0%)
3	AH	0.15	0/3431	0.43	0/4649
3	AJ	0.15	0/3431	0.44	0/4649
3	AL	0.15	0/3431	0.43	0/4649
3	BB	0.15	0/3431	0.42	0/4649
3	BD	0.14	0/3431	0.42	2/4649 (0.0%)
3	BF	0.15	0/3431	0.43	0/4649
3	BH	0.14	0/3431	0.43	0/4649
3	BJ	0.21	0/3431	0.48	2/4649 (0.0%)
3	BL	0.14	0/3431	0.42	0/4649
3	CB	0.16	0/3431	0.44	0/4649
3	CD	0.15	0/3431	0.43	0/4649
3	CF	0.14	0/3431	0.44	0/4649
3	CH	0.16	0/3431	0.46	2/4649 (0.0%)
3	CJ	0.15	0/3431	0.44	2/4649 (0.0%)
3	CL	0.22	0/3431	0.46	0/4649
3	DB	0.15	0/3431	0.42	2/4649 (0.0%)
3	DD	0.16	0/3431	0.44	0/4649
3	DF	0.16	0/3431	0.44	0/4649
3	DH	0.14	0/3431	0.39	0/4649
3	DJ	0.16	0/3431	0.47	2/4649 (0.0%)
3	DL	0.15	0/3431	0.43	0/4649
3	EB	0.17	0/3431	0.44	0/4649
3	ED	0.17	0/3431	0.45	1/4649 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
3	EF	0.16	0/3431	0.45	1/4649 (0.0%)
3	EH	0.14	0/3431	0.43	0/4649
3	EJ	0.14	0/3431	0.42	2/4649 (0.0%)
3	EL	0.17	0/3431	0.48	2/4649 (0.0%)
3	FB	0.15	0/3431	0.44	0/4649
3	FD	0.16	0/3431	0.47	1/4649 (0.0%)
3	FF	0.14	0/3431	0.42	0/4649
3	FH	0.19	0/3431	0.50	1/4649 (0.0%)
3	FJ	0.16	0/3431	0.45	0/4649
3	FL	0.15	0/3431	0.44	0/4649
3	GB	0.16	0/3431	0.47	0/4649
3	GD	0.14	0/3431	0.45	0/4649
3	GF	0.16	0/3431	0.45	0/4649
3	GH	0.15	0/3431	0.43	0/4649
3	GJ	0.15	0/3431	0.43	0/4649
3	GL	0.17	0/3431	0.46	0/4649
3	HB	0.15	0/3431	0.43	0/4649
3	HD	0.16	0/3431	0.44	0/4649
3	HF	0.15	0/3431	0.45	1/4649 (0.0%)
3	HH	0.15	0/3431	0.43	0/4649
3	HJ	0.16	0/3431	0.45	0/4649
3	HL	0.14	0/3431	0.42	0/4649
3	IB	0.15	0/3431	0.45	0/4649
3	ID	0.15	0/3431	0.43	0/4649
3	IF	0.14	0/3431	0.41	0/4649
3	IH	0.14	0/3431	0.43	0/4649
3	IJ	0.15	0/3431	0.44	0/4649
3	IL	0.15	0/3431	0.43	0/4649
3	JB	0.13	0/3431	0.40	0/4649
3	JD	0.14	0/3431	0.42	0/4649
3	JF	0.14	0/3431	0.41	0/4649
3	JH	0.14	0/3431	0.42	0/4649
3	JJ	0.13	0/3431	0.40	0/4649
3	JL	0.13	0/3431	0.38	0/4649
3	KB	0.15	0/3431	0.42	0/4649
3	KD	0.15	0/3431	0.42	0/4649
3	KF	0.15	0/3431	0.39	0/4649
3	KH	0.16	0/3431	0.44	0/4649
3	KJ	0.14	0/3431	0.41	0/4649
3	KL	0.15	0/3431	0.45	0/4649
3	LB	0.15	0/3431	0.43	0/4649
3	LD	0.15	0/3431	0.43	0/4649
3	LF	0.16	0/3431	0.44	0/4649

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
3	LH	0.16	0/3431	0.43	0/4649
3	LJ	0.16	0/3431	0.43	0/4649
3	LL	0.15	0/3431	0.44	0/4649
3	MB	0.15	0/3431	0.44	0/4649
3	MD	0.17	0/3431	0.46	0/4649
3	MF	0.13	0/3431	0.39	0/4649
3	MH	0.15	0/3431	0.44	0/4649
3	MJ	0.15	0/3431	0.46	2/4649 (0.0%)
3	ML	0.17	0/3431	0.45	0/4649
3	NB	0.13	0/3431	0.41	1/4649 (0.0%)
3	ND	0.14	0/3431	0.42	3/4649 (0.1%)
3	NF	0.13	0/3431	0.40	0/4649
3	NH	0.14	0/3431	0.43	0/4649
3	NJ	0.14	0/3431	0.41	0/4649
3	NL	0.13	0/3431	0.41	3/4649 (0.1%)
3	OB	0.15	0/3431	0.42	1/4649 (0.0%)
3	OD	0.14	0/3431	0.42	1/4649 (0.0%)
3	OF	0.14	0/3431	0.40	0/4649
3	OH	0.14	0/3431	0.41	0/4649
3	OJ	0.13	0/3431	0.40	0/4649
3	OL	0.15	0/3431	0.42	0/4649
3	PB	0.14	0/3431	0.40	0/4649
3	PD	0.15	0/3431	0.44	0/4649
3	PF	0.14	0/3431	0.43	1/4649 (0.0%)
3	PH	0.14	0/3431	0.43	0/4649
3	PJ	0.14	0/3431	0.41	0/4649
3	PL	0.15	0/3431	0.43	1/4649 (0.0%)
3	QB	0.14	0/3431	0.41	0/4649
3	QD	0.14	0/3431	0.41	0/4649
3	QF	0.14	0/3431	0.41	0/4649
3	QH	0.14	0/3431	0.42	0/4649
3	QJ	0.14	0/3431	0.43	0/4649
3	QL	0.14	0/3431	0.43	0/4649
3	RB	0.15	0/3431	0.46	0/4649
3	RD	0.15	0/3431	0.42	0/4649
3	RF	0.14	0/3431	0.41	0/4649
3	RH	0.15	0/3431	0.42	1/4649 (0.0%)
3	RJ	0.15	0/3431	0.44	0/4649
3	RL	0.14	0/3431	0.41	0/4649
3	SB	0.14	0/3431	0.44	0/4649
3	SD	0.13	0/3431	0.40	0/4649
3	SF	0.15	0/3431	0.41	0/4649
3	SH	0.14	0/3431	0.41	0/4649

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
3	SJ	0.15	0/3431	0.43	2/4649 (0.0%)
3	SL	0.13	0/3431	0.42	0/4649
3	TB	0.14	0/3431	0.42	1/4649 (0.0%)
3	TD	0.14	0/3431	0.42	0/4649
3	TF	0.14	0/3431	0.41	0/4649
3	TH	0.15	0/3431	0.43	1/4649 (0.0%)
3	TJ	0.15	0/3431	0.45	0/4649
3	TL	0.16	0/3431	0.51	6/4649 (0.1%)
3	TN	0.13	0/3431	0.41	1/4649 (0.0%)
3	UB	0.15	0/3431	0.44	0/4649
3	UD	0.13	0/3431	0.40	0/4649
3	UF	0.14	0/3431	0.43	1/4649 (0.0%)
3	UH	0.15	0/3431	0.41	1/4649 (0.0%)
3	UJ	0.14	0/3431	0.39	0/4649
3	UL	0.13	0/3431	0.41	0/4649
3	VB	0.14	0/3431	0.41	0/4649
3	VD	0.14	0/3431	0.40	0/4649
3	VF	0.15	0/3431	0.43	0/4649
3	VH	0.15	0/3431	0.41	0/4649
3	VJ	0.14	0/3431	0.40	0/4649
3	VL	0.14	0/3431	0.41	0/4649
3	WB	0.14	0/3431	0.41	0/4649
3	WD	0.14	0/3431	0.41	0/4649
3	WF	0.14	0/3431	0.41	1/4649 (0.0%)
3	WH	0.14	0/3431	0.40	0/4649
3	WJ	0.14	0/3431	0.40	0/4649
3	WL	0.14	0/3431	0.40	1/4649 (0.0%)
4	AC	0.14	0/3496	0.40	0/4747
4	AE	0.16	0/3496	0.43	1/4747 (0.0%)
4	AG	0.15	0/3496	0.42	0/4747
4	AI	0.15	0/3496	0.43	1/4747 (0.0%)
4	AK	0.16	0/3496	0.44	1/4747 (0.0%)
4	AM	0.15	0/3496	0.42	0/4747
4	BC	0.14	0/3496	0.38	0/4747
4	BE	0.15	0/3496	0.42	0/4747
4	BG	0.14	0/3496	0.40	0/4747
4	BI	0.14	0/3496	0.39	0/4747
4	BK	0.14	0/3496	0.43	0/4747
4	BM	0.17	0/3496	0.45	0/4747
4	CC	0.14	0/3496	0.42	0/4747
4	CE	0.15	0/3496	0.42	0/4747
4	CG	0.16	0/3496	0.46	0/4747
4	CI	0.16	0/3496	0.45	0/4747

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
4	CK	0.17	0/3496	0.46	0/4747
4	CM	0.15	0/3496	0.45	0/4747
4	DA	0.14	0/3496	0.40	0/4747
4	DC	0.16	0/3496	0.45	0/4747
4	DE	0.16	0/3496	0.44	0/4747
4	DG	0.14	0/3496	0.40	0/4747
4	DI	0.14	0/3496	0.40	0/4747
4	DK	0.16	0/3496	0.47	1/4747 (0.0%)
4	EA	0.14	0/3496	0.41	0/4747
4	EC	0.18	0/3496	0.50	3/4747 (0.1%)
4	EE	0.16	0/3496	0.44	0/4747
4	EG	0.15	0/3496	0.43	0/4747
4	EI	0.16	0/3496	0.43	0/4747
4	EK	0.15	0/3496	0.43	0/4747
4	FA	0.15	0/3496	0.43	1/4747 (0.0%)
4	FC	0.17	0/3496	0.45	1/4747 (0.0%)
4	FE	0.15	0/3496	0.42	0/4747
4	FG	0.16	0/3496	0.43	0/4747
4	FI	0.15	0/3496	0.42	0/4747
4	FK	0.17	0/3496	0.45	0/4747
4	GA	0.16	0/3496	0.48	0/4747
4	GC	0.14	0/3496	0.43	1/4747 (0.0%)
4	GE	0.15	0/3496	0.43	0/4747
4	GG	0.15	0/3496	0.42	0/4747
4	GI	0.16	0/3496	0.43	0/4747
4	GK	0.15	0/3496	0.41	0/4747
4	HA	0.16	0/3496	0.45	1/4747 (0.0%)
4	HC	0.15	0/3496	0.46	1/4747 (0.0%)
4	HE	0.16	0/3496	0.44	0/4747
4	HG	0.17	0/3496	0.46	0/4747
4	HI	0.16	0/3496	0.46	1/4747 (0.0%)
4	HK	0.14	0/3496	0.41	0/4747
4	IA	0.14	0/3496	0.41	0/4747
4	IC	0.15	0/3496	0.43	0/4747
4	IE	0.15	0/3496	0.42	0/4747
4	IG	0.16	0/3496	0.42	1/4747 (0.0%)
4	II	0.15	0/3496	0.41	0/4747
4	IK	0.14	0/3496	0.41	0/4747
4	IM	0.15	0/3496	0.44	0/4747
4	JA	0.14	0/3496	0.40	0/4747
4	JC	0.14	0/3496	0.40	0/4747
4	JE	0.15	0/3496	0.43	1/4747 (0.0%)
4	JG	0.14	0/3496	0.41	0/4747

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
4	JI	0.14	0/3496	0.40	0/4747
4	JK	0.14	0/3496	0.40	0/4747
4	KA	0.15	0/3496	0.43	0/4747
4	KC	0.15	0/3496	0.41	0/4747
4	KE	0.15	0/3496	0.42	0/4747
4	KG	0.15	0/3496	0.40	0/4747
4	KI	0.15	0/3496	0.41	0/4747
4	KK	0.15	0/3496	0.41	0/4747
4	LA	0.15	0/3496	0.44	2/4747 (0.0%)
4	LC	0.15	0/3496	0.42	0/4747
4	LE	0.15	0/3496	0.42	0/4747
4	LG	0.15	0/3496	0.40	0/4747
4	LI	0.15	0/3496	0.44	0/4747
4	LK	0.15	0/3496	0.42	0/4747
4	MC	0.15	0/3496	0.43	0/4747
4	ME	0.14	0/3496	0.42	0/4747
4	MG	0.15	0/3496	0.44	0/4747
4	MI	0.15	0/3496	0.41	0/4747
4	MK	0.16	0/3496	0.43	0/4747
4	MM	0.14	0/3496	0.41	0/4747
4	NA	0.13	0/3496	0.37	0/4747
4	NC	0.13	0/3496	0.38	0/4747
4	NE	0.14	0/3496	0.39	0/4747
4	NG	0.13	0/3496	0.39	0/4747
4	NI	0.14	0/3496	0.40	0/4747
4	NK	0.13	0/3496	0.39	0/4747
4	OA	0.13	0/3496	0.39	0/4747
4	OC	0.14	0/3496	0.39	0/4747
4	OE	0.15	0/3496	0.43	1/4747 (0.0%)
4	OG	0.13	0/3496	0.40	0/4747
4	OI	0.14	0/3496	0.41	0/4747
4	OK	0.14	0/3496	0.40	0/4747
4	PA	0.13	0/3496	0.40	0/4747
4	PC	0.14	0/3496	0.40	0/4747
4	PE	0.14	0/3496	0.42	0/4747
4	PG	0.14	0/3496	0.41	0/4747
4	PI	0.14	0/3496	0.41	0/4747
4	PK	0.13	0/3496	0.41	0/4747
4	PM	0.18	0/3496	0.47	1/4747 (0.0%)
4	QC	0.13	0/3496	0.41	0/4747
4	QE	0.15	0/3496	0.41	0/4747
4	QG	0.16	0/3496	0.43	0/4747
4	QI	0.15	0/3496	0.40	0/4747

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
4	QK	0.14	0/3496	0.41	0/4747
4	QM	0.14	0/3496	0.41	0/4747
4	RC	0.16	0/3496	0.42	0/4747
4	RE	0.14	0/3496	0.40	0/4747
4	RG	0.13	0/3496	0.39	0/4747
4	RI	0.14	0/3496	0.40	0/4747
4	RK	0.15	0/3496	0.41	0/4747
4	RM	0.13	0/3496	0.40	0/4747
4	SC	0.14	0/3496	0.38	0/4747
4	SE	0.14	0/3496	0.41	0/4747
4	SG	0.15	0/3496	0.42	0/4747
4	SI	0.15	0/3496	0.42	0/4747
4	SK	0.14	0/3496	0.40	0/4747
4	SM	0.16	0/3496	0.44	2/4747 (0.0%)
4	TC	0.14	0/3496	0.41	1/4747 (0.0%)
4	TE	0.14	0/3496	0.40	0/4747
4	TG	0.15	0/3496	0.40	0/4747
4	TI	0.14	0/3496	0.39	0/4747
4	TK	0.15	0/3496	0.41	0/4747
4	TM	0.14	0/3496	0.39	0/4747
4	UA	0.14	0/3496	0.40	0/4747
4	UC	0.14	0/3496	0.40	0/4747
4	UE	0.15	0/3496	0.42	0/4747
4	UG	0.15	0/3496	0.41	0/4747
4	UI	0.15	0/3496	0.43	0/4747
4	UK	0.14	0/3496	0.39	0/4747
4	VA	0.14	0/3496	0.40	0/4747
4	VC	0.13	0/3496	0.40	0/4747
4	VE	0.14	0/3496	0.42	1/4747 (0.0%)
4	VG	0.15	0/3496	0.42	0/4747
4	VI	0.15	0/3496	0.41	0/4747
4	VK	0.15	0/3496	0.41	0/4747
4	WA	0.13	0/3496	0.38	0/4747
4	WC	0.13	0/3496	0.39	0/4747
4	WE	0.19	0/3496	0.44	2/4747 (0.0%)
4	WG	0.14	0/3496	0.42	0/4747
4	WI	0.16	0/3496	0.43	1/4747 (0.0%)
4	WK	0.15	0/3496	0.42	0/4747
5	B1	0.24	0/1957	0.53	0/2632
5	B2	0.26	0/3456	0.51	0/4659
5	B3	0.25	0/3456	0.51	0/4659
5	B4	0.23	0/2581	0.54	0/3482
5	B5	0.20	0/412	0.48	0/554

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
5	B6	0.27	0/3009	0.56	0/4054
5	B7	0.24	0/3362	0.53	2/4531 (0.0%)
5	B8	0.27	0/3307	0.53	2/4456 (0.0%)
5	B9	0.23	0/961	0.61	0/1288
6	C	0.17	0/3007	0.53	0/4060
6	D	0.16	0/3007	0.47	0/4060
7	C1	0.19	0/814	0.48	0/1097
7	C2	0.23	0/3208	0.53	2/4320 (0.0%)
7	C3	0.24	1/3208 (0.0%)	0.51	0/4320
7	C4	0.25	0/2966	0.56	2/3992 (0.1%)
7	C5	0.23	0/525	0.70	0/703
7	C6	0.13	0/1653	0.38	0/2224
7	C7	0.26	0/3256	0.60	2/4386 (0.0%)
7	C8	0.26	0/3256	0.61	3/4386 (0.1%)
7	C9	0.21	0/2452	0.51	0/3298
7	Ca	0.21	0/1814	0.47	0/2437
7	Cb	0.26	0/3208	0.59	2/4320 (0.0%)
7	Cc	0.24	0/3208	0.56	0/4320
7	Cd	0.13	0/2183	0.38	0/2942
8	D1	0.13	0/479	0.42	0/644
8	D2	0.24	0/3041	0.49	0/4095
8	D3	0.25	0/3538	0.49	0/4763
8	D4	0.25	0/3538	0.51	0/4763
8	D5	0.23	0/1072	0.55	0/1435
8	D6	0.21	0/617	0.55	0/828
8	D7	0.26	0/3068	0.54	1/4129 (0.0%)
8	D8	0.27	0/3337	0.53	1/4491 (0.0%)
8	D9	0.25	0/3304	0.51	0/4443
8	Da	0.18	0/499	0.49	0/669
9	E	0.17	0/2209	0.53	0/2979
9	F	0.21	0/1218	0.62	2/1652 (0.1%)
10	E1	0.20	0/1613	0.53	0/2194
10	E2	0.21	0/1613	0.54	0/2194
10	E3	0.20	0/1613	0.55	0/2194
10	E4	0.18	0/492	0.46	0/673
11	F1	0.23	0/2357	0.53	0/3163
11	F2	0.28	0/3267	0.68	3/4394 (0.1%)
11	F3	0.29	0/3267	0.69	4/4394 (0.1%)
11	F4	0.22	0/1770	0.49	0/2374
11	F5	0.26	0/2147	0.56	0/2885
11	F6	0.25	0/3236	0.58	2/4352 (0.0%)
11	F7	0.27	0/3236	0.64	0/4352
11	F8	0.25	0/1894	0.59	0/2543

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
11	F9	0.19	0/1424	0.50	0/1913
11	Fa	0.24	0/3236	0.54	1/4352 (0.0%)
11	Fb	0.25	0/3236	0.63	3/4352 (0.1%)
11	Fc	0.24	0/2619	0.56	0/3516
11	Fd	0.16	0/202	0.50	0/272
11	Fe	0.18	0/1968	0.44	0/2639
11	Ff	0.19	0/3267	0.43	0/4394
11	Fg	0.17	0/2591	0.46	0/3481
11	Fh	0.18	0/1510	0.50	0/2032
11	Fi	0.19	0/2257	0.46	0/3026
11	Fj	0.20	0/2296	0.51	0/3083
11	Fk	0.15	0/2751	0.44	0/3693
11	Fl	0.16	0/2751	0.46	0/3693
11	Fm	0.15	0/2706	0.44	0/3633
12	G	0.11	0/3831	0.33	0/5084
12	H	0.17	0/389	0.59	0/517
13	G1	0.17	0/4309	0.47	0/5839
13	G2	0.16	0/4192	0.47	0/5678
13	G3	0.17	0/4317	0.47	0/5851
14	G4	0.18	0/6347	0.51	1/8582 (0.0%)
14	G5	0.18	0/6339	0.49	0/8570
14	G6	0.17	0/6339	0.48	1/8570 (0.0%)
15	H1	0.19	0/1171	0.65	0/1582
15	H2	0.22	0/1139	0.68	0/1538
15	H3	0.22	0/1171	0.68	1/1582 (0.1%)
15	H4	0.23	0/1160	0.64	0/1568
15	H5	0.23	0/1171	0.72	0/1582
15	H6	0.22	0/1150	0.71	0/1552
16	I	0.18	0/796	0.48	0/1072
17	I1	0.13	0/306	0.37	0/413
17	I2	0.25	0/306	0.54	0/413
17	I3	0.15	0/306	0.39	0/413
18	J	0.19	0/1373	0.56	1/1872 (0.1%)
19	J1	0.21	0/1413	0.56	0/1923
19	J2	0.18	0/1413	0.50	0/1923
19	J3	0.21	0/1413	0.57	0/1923
20	K	0.16	0/2196	0.41	0/2965
20	L	0.15	0/2196	0.43	0/2965
21	K1	0.17	0/859	0.59	0/1150
21	K2	0.17	0/3463	0.53	0/4658
21	K3	0.16	0/3523	0.53	0/4741
21	K4	0.16	0/3234	0.49	0/4351
21	K5	0.19	0/410	0.58	0/552

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
22	L1	0.19	0/1763	0.59	0/2358
22	L2	0.21	0/1970	0.61	0/2636
22	L3	0.22	0/1970	0.63	2/2636 (0.1%)
22	L4	0.21	0/627	0.63	1/840 (0.1%)
23	M	0.18	0/975	0.49	0/1321
24	M1	0.19	0/525	0.55	0/708
24	M2	0.20	0/525	0.62	0/708
24	M3	0.21	0/525	0.62	0/708
25	N	0.16	0/602	0.52	0/816
26	N1	0.17	0/546	0.52	0/734
26	N2	0.19	0/546	0.59	0/734
26	N3	0.23	0/546	0.66	0/734
26	N4	0.17	0/546	0.53	0/734
27	O	0.13	0/418	0.55	0/556
27	P	0.12	0/2734	0.35	0/3649
27	Q	0.14	0/1566	0.43	0/2088
27	R	0.12	0/1951	0.34	0/2609
28	O1	0.24	0/849	0.82	2/1160 (0.2%)
28	O2	0.24	0/849	0.74	2/1160 (0.2%)
28	O3	0.24	0/849	0.70	2/1160 (0.2%)
29	P1	0.13	0/4793	0.37	1/6480 (0.0%)
29	P2	0.13	0/4793	0.37	0/6480
29	P3	0.13	0/4793	0.36	0/6480
30	Q1	0.20	0/1500	0.61	0/2007
30	Q2	0.20	0/1500	0.63	0/2007
30	Q3	0.19	0/1500	0.62	2/2007 (0.1%)
31	R1	0.14	0/613	0.57	1/823 (0.1%)
31	R2	0.21	0/613	0.53	0/823
31	R3	0.14	0/613	0.49	0/823
32	S	0.16	0/592	0.49	0/809
32	T	0.14	0/925	0.42	0/1250
33	U	0.11	0/3142	0.38	0/4156
33	V	0.11	0/540	0.33	0/715
33	W	0.16	0/2749	0.51	3/3652 (0.1%)
33	X	0.11	0/1516	0.37	0/2010
34	XA	0.15	0/1573	0.40	0/2122
34	XB	0.14	0/1573	0.38	0/2122
34	XC	0.17	0/1573	0.42	0/2122
34	XD	0.16	0/1573	0.42	0/2122
34	XE	0.16	0/1573	0.40	0/2122
34	XF	0.17	0/1573	0.44	0/2122
34	XG	0.16	0/1573	0.40	0/2122
35	XH	0.16	0/1503	0.48	2/2028 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
35	XI	0.15	0/1503	0.46	0/2028
35	XJ	0.16	0/1503	0.46	0/2028
35	XK	0.18	0/1503	0.51	0/2028
35	XL	0.16	0/1503	0.45	0/2028
35	XM	0.15	0/1503	0.44	0/2028
36	Y	0.10	0/1841	0.35	0/2442
36	Z	0.14	0/2421	0.45	0/3214
37	YA	0.15	0/1393	0.46	0/1876
37	YB	0.20	0/1393	0.58	1/1876 (0.1%)
37	YC	0.17	0/1393	0.51	0/1876
37	YD	0.15	0/1393	0.48	0/1876
37	YE	0.15	0/1393	0.46	0/1876
37	YF	0.15	0/1393	0.48	0/1876
37	YG	0.16	0/1393	0.48	0/1876
37	YH	0.15	0/1393	0.47	0/1876
37	YI	0.16	0/1393	0.50	0/1876
37	YJ	0.15	0/1393	0.47	0/1876
37	YK	0.15	0/1393	0.48	0/1876
37	YL	0.17	0/1393	0.50	0/1876
37	YM	0.15	0/1393	0.48	0/1876
37	YN	0.15	0/1393	0.46	0/1876
37	YO	0.15	0/1393	0.45	0/1876
37	YP	0.16	0/1393	0.48	0/1876
37	YQ	0.16	0/1393	0.49	0/1876
37	YR	0.14	0/1393	0.46	0/1876
37	YS	0.15	0/1393	0.48	0/1876
37	YT	0.16	0/1393	0.48	0/1876
37	YU	0.15	0/1393	0.45	0/1876
37	YV	0.17	0/1393	0.49	0/1876
37	YW	0.16	0/1393	0.48	0/1876
38	a	0.16	0/795	0.48	0/1064
All	All	0.16	1/1301480 (0.0%)	0.45	135/1761933 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	A2	0	1
2	A4	0	1
3	AB	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
3	AD	0	1
3	AF	0	1
3	AH	0	1
3	AJ	0	1
3	BB	0	1
3	BD	0	1
3	BF	0	2
3	BH	0	1
3	BJ	0	3
3	BL	0	1
3	CB	0	1
3	CD	0	1
3	CF	0	1
3	CH	0	1
3	CJ	0	1
3	CL	0	1
3	DB	0	1
3	DD	0	1
3	DF	0	1
3	DH	0	1
3	DJ	0	1
3	DL	0	1
3	EB	0	1
3	ED	0	1
3	EF	0	1
3	EH	0	1
3	EJ	0	1
3	EL	0	1
3	FB	0	2
3	FD	0	1
3	FF	0	1
3	FH	0	1
3	FJ	0	2
3	FL	0	1
3	GB	0	1
3	GD	0	1
3	GF	0	2
3	GH	0	1
3	GJ	0	1
3	GL	0	1
3	HB	0	1
3	HD	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
3	HF	0	2
3	HH	0	1
3	HJ	0	1
3	HL	0	1
3	IB	0	1
3	ID	0	1
3	IF	0	2
3	IH	0	1
3	IJ	0	2
3	IL	0	1
3	JB	0	1
3	JD	0	1
3	JF	0	1
3	JH	0	1
3	JJ	0	1
3	JL	0	1
3	KB	0	1
3	KD	0	1
3	KF	0	1
3	KJ	0	1
3	KL	0	1
3	LB	0	1
3	LD	0	1
3	LF	0	1
3	LH	0	1
3	LL	0	1
3	MB	0	1
3	MD	0	1
3	MF	0	1
3	MH	0	1
3	MJ	0	1
3	ML	0	1
3	NB	0	1
3	ND	0	1
3	NF	0	1
3	NH	0	1
3	NJ	0	1
3	NL	0	1
3	OB	0	1
3	OD	0	1
3	OF	0	1
3	OH	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
3	OJ	0	1
3	PB	0	1
3	PD	0	1
3	PF	0	1
3	PH	0	1
3	PJ	0	1
3	PL	0	1
3	QB	0	1
3	QF	0	1
3	QH	0	1
3	QJ	0	1
3	QL	0	1
3	RD	0	1
3	RF	0	1
3	RJ	0	1
3	RL	0	1
3	SB	0	3
3	SD	0	2
3	SF	0	1
3	SH	0	1
3	TD	0	1
3	TF	0	1
3	TH	0	1
3	TJ	0	1
3	TL	0	3
3	TN	0	1
3	UB	0	1
3	UD	0	1
3	UF	0	1
3	UH	0	1
3	UJ	0	1
3	UL	0	1
3	VB	0	1
3	VD	0	1
3	VF	0	1
3	VH	0	1
3	VJ	0	2
3	VL	0	1
3	WB	0	1
3	WD	0	1
3	WF	0	1
3	WH	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
3	WJ	0	1
3	WL	0	1
4	AG	0	1
4	BM	0	1
4	CM	0	1
4	DK	0	2
4	EC	0	1
4	FC	0	1
4	HC	0	2
4	HI	0	1
4	HK	0	1
4	IG	0	1
4	OE	0	1
4	WE	0	1
9	E	0	1
10	E1	0	2
10	E2	0	2
10	E3	0	1
11	Fb	0	1
11	Fh	0	1
13	G1	0	1
13	G2	0	2
13	G3	0	1
14	G4	0	1
14	G5	0	1
14	G6	0	2
21	K2	0	2
21	K3	0	2
21	K4	0	1
22	L2	0	1
27	P	0	1
35	XK	0	1
All	All	0	184

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	C3	174	LEU	CA-C	5.97	1.62	1.52

All (135) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
28	O1	109	LEU	CA-C-N	-12.36	107.19	122.64
28	O1	109	LEU	C-N-CA	-12.36	107.19	122.64
3	BJ	15	GLN	CA-CB-CG	11.19	136.47	114.10
3	TL	15	GLN	CA-CB-CG	-10.04	94.02	114.10
3	TL	15	GLN	CG-CD-NE2	-8.95	102.97	116.40
4	EC	222	PRO	CA-N-CD	-8.58	99.99	112.00
3	FH	15	GLN	CA-CB-CG	8.42	130.94	114.10
4	PM	15	GLN	CB-CA-C	-8.08	98.13	110.90
28	O2	109	LEU	CA-C-N	-7.88	108.53	122.48
28	O2	109	LEU	C-N-CA	-7.88	108.53	122.48
7	C8	369	LEU	CA-CB-CG	7.76	143.47	116.30
4	EC	15	GLN	CB-CA-C	-7.76	99.01	110.96
3	NB	252	LYS	CB-CG-CD	7.76	129.14	111.30
11	F3	410	ASP	CA-C-N	7.71	125.09	120.24
11	F3	410	ASP	C-N-CA	7.71	125.09	120.24
3	TL	15	GLN	CB-CA-C	-7.67	98.84	110.88
11	F2	410	ASP	CA-C-N	7.44	124.93	120.24
11	F2	410	ASP	C-N-CA	7.44	124.93	120.24
4	WI	203	MET	CB-CG-SD	-7.29	90.82	112.70
9	F	318	ARG	CA-C-N	-7.29	109.38	122.28
9	F	318	ARG	C-N-CA	-7.29	109.38	122.28
4	EC	15	GLN	CA-CB-CG	7.19	128.47	114.10
4	FC	11	GLN	CA-CB-CG	7.12	128.35	114.10
4	SM	15	GLN	CA-CB-CG	7.01	128.12	114.10
4	SM	15	GLN	CB-CA-C	-6.88	100.03	110.90
28	O3	109	LEU	CA-C-N	-6.68	105.49	121.80
28	O3	109	LEU	C-N-CA	-6.68	105.49	121.80
8	D7	250	SER	N-CA-C	-6.58	106.20	114.56
33	W	106	PRO	CA-C-N	-6.53	108.88	121.94
33	W	106	PRO	C-N-CA	-6.53	108.88	121.94
31	R1	281	THR	CB-CA-C	-6.53	109.03	116.54
4	IG	203	MET	CB-CG-SD	-6.49	93.24	112.70
4	JE	10	GLY	CA-C-O	-6.43	117.80	122.23
4	DK	11	GLN	CA-CB-CG	6.32	126.75	114.10
11	F6	410	ASP	CA-C-N	6.30	124.21	120.24
11	F6	410	ASP	C-N-CA	6.30	124.21	120.24
3	MJ	252	LYS	CB-CG-CD	6.30	125.79	111.30
4	HC	11	GLN	CA-CB-CG	6.30	126.69	114.10
3	EJ	241	ARG	CA-C-N	-6.20	111.29	123.56
3	EJ	241	ARG	C-N-CA	-6.20	111.29	123.56
4	WE	11	GLN	CA-CB-CG	6.13	126.37	114.10
4	AK	15	GLN	CA-CB-CG	6.11	126.33	114.10
3	DJ	241	ARG	CA-C-N	-6.05	107.97	122.74

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	DJ	241	ARG	C-N-CA	-6.05	107.97	122.74
3	BJ	15	GLN	CB-CG-CD	5.95	122.72	112.60
4	VE	224	TYR	CA-CB-CG	5.91	124.54	113.90
3	DB	241	ARG	CA-C-N	-5.82	105.49	122.38
3	DB	241	ARG	C-N-CA	-5.82	105.49	122.38
4	HI	11	GLN	CA-CB-CG	5.81	125.71	114.10
7	C7	166	GLU	CA-C-N	-5.71	111.14	121.14
7	C7	166	GLU	C-N-CA	-5.71	111.14	121.14
3	TL	15	GLN	N-CA-CB	5.71	118.30	110.01
7	C2	377	MET	CA-C-N	-5.64	110.58	121.58
7	C2	377	MET	C-N-CA	-5.64	110.58	121.58
3	TN	180	VAL	N-CA-C	-5.59	107.29	112.83
3	PF	180	VAL	N-CA-C	-5.57	107.31	112.83
7	C4	166	GLU	CA-C-N	-5.52	111.48	121.14
7	C4	166	GLU	C-N-CA	-5.52	111.48	121.14
3	CH	15	GLN	CA-CB-CG	5.52	125.15	114.10
22	L3	184	ALA	CA-C-N	-5.51	115.88	122.44
22	L3	184	ALA	C-N-CA	-5.51	115.88	122.44
22	L4	79	ASN	CB-CA-C	-5.48	110.27	116.63
5	B8	301	GLU	CA-C-N	-5.45	112.03	120.31
5	B8	301	GLU	C-N-CA	-5.45	112.03	120.31
7	C8	166	GLU	CA-C-N	-5.45	111.60	121.14
7	C8	166	GLU	C-N-CA	-5.45	111.60	121.14
29	P1	418	ILE	N-CA-C	-5.45	107.06	111.91
11	Fb	406	GLU	CA-CB-CG	5.44	124.98	114.10
4	HA	15	GLN	CA-CB-CG	5.44	124.98	114.10
7	Cb	166	GLU	CA-C-N	-5.43	111.63	121.14
7	Cb	166	GLU	C-N-CA	-5.43	111.63	121.14
3	WF	180	VAL	N-CA-C	-5.41	107.47	112.83
18	J	131	SER	N-CA-C	-5.38	106.45	114.64
3	EL	10	GLY	CA-C-N	-5.38	112.13	120.31
3	EL	10	GLY	C-N-CA	-5.38	112.13	120.31
3	ED	180	VAL	N-CA-C	-5.36	107.52	112.83
3	NL	10	GLY	CA-C-N	-5.36	111.57	120.68
3	NL	10	GLY	C-N-CA	-5.36	111.57	120.68
3	AF	241	ARG	CA-C-N	-5.33	111.26	123.15
3	AF	241	ARG	C-N-CA	-5.33	111.26	123.15
4	AE	224	TYR	CA-CB-CG	5.33	123.49	113.90
4	WE	11	GLN	CG-CD-NE2	5.32	124.38	116.40
4	LA	338	LYS	CA-C-N	5.32	127.67	120.44
4	LA	338	LYS	C-N-CA	5.32	127.67	120.44
3	NL	180	VAL	N-CA-C	-5.32	107.57	112.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	TL	10	GLY	CA-C-N	-5.30	112.19	122.06
3	TL	10	GLY	C-N-CA	-5.30	112.19	122.06
3	TH	180	VAL	N-CA-C	-5.29	107.60	112.83
30	Q3	1415	MET	CA-C-N	5.28	131.62	121.54
30	Q3	1415	MET	C-N-CA	5.28	131.62	121.54
3	MJ	245	GLN	CA-CB-CG	5.27	124.65	114.10
4	AI	224	TYR	CA-CB-CG	5.24	123.33	113.90
3	UH	180	VAL	N-CA-C	-5.24	107.64	112.83
33	W	107	GLU	N-CA-CB	5.20	118.85	110.42
3	AB	10	GLY	CA-C-N	-5.20	112.41	120.31
3	AB	10	GLY	C-N-CA	-5.20	112.41	120.31
3	WL	180	VAL	N-CA-C	-5.19	107.69	112.83
4	OE	15	GLN	CA-CB-CG	5.18	124.47	114.10
3	CH	180	VAL	N-CA-C	-5.17	107.71	112.83
37	YB	21	GLN	CA-C-O	-5.17	113.51	119.56
11	F3	453	HIS	CA-C-N	-5.16	112.11	120.72
11	F3	453	HIS	C-N-CA	-5.16	112.11	120.72
3	OB	180	VAL	N-CA-C	-5.16	107.44	112.29
14	G6	748	ASN	CB-CA-C	-5.15	110.66	116.63
35	XH	129	VAL	CA-C-N	5.15	123.48	120.24
35	XH	129	VAL	C-N-CA	5.15	123.48	120.24
8	D8	252	SER	N-CA-C	5.13	115.01	108.24
3	OD	180	VAL	N-CA-C	-5.12	107.47	112.29
3	BD	241	ARG	CA-C-N	-5.12	107.54	122.38
3	BD	241	ARG	C-N-CA	-5.12	107.54	122.38
3	RH	180	VAL	N-CA-C	-5.12	106.92	112.80
11	F2	470	MET	CB-CG-SD	5.11	128.03	112.70
4	TC	224	TYR	CA-CB-CG	5.11	123.10	113.90
15	H3	315	ARG	N-CA-C	-5.09	107.58	112.97
3	PL	180	VAL	N-CA-C	-5.08	107.52	112.29
5	B7	40	GLN	CA-C-N	-5.07	112.61	120.31
5	B7	40	GLN	C-N-CA	-5.07	112.61	120.31
4	GC	15	GLN	CA-CB-CG	5.07	124.24	114.10
3	SJ	270	PHE	CA-C-N	5.07	129.79	122.29
3	SJ	270	PHE	C-N-CA	5.07	129.79	122.29
3	EF	180	VAL	N-CA-C	-5.05	107.83	112.83
3	FD	180	VAL	N-CA-C	-5.05	107.83	112.83
3	ND	15	GLN	CA-CB-CG	5.04	124.17	114.10
3	TB	180	VAL	N-CA-C	-5.04	107.84	112.83
3	HF	180	VAL	N-CA-C	-5.03	107.85	112.83
11	Fa	399	ARG	N-CA-C	-5.02	108.43	114.75
14	G4	748	ASN	CB-CA-C	-5.02	110.81	116.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	ND	10	GLY	CA-C-N	-5.02	112.15	120.68
3	ND	10	GLY	C-N-CA	-5.02	112.15	120.68
3	UF	180	VAL	N-CA-C	-5.01	107.87	112.83
3	CJ	241	ARG	CA-C-N	-5.01	113.64	123.56
3	CJ	241	ARG	C-N-CA	-5.01	113.64	123.56
11	Fb	368	ILE	CA-C-N	-5.01	112.69	120.31
11	Fb	368	ILE	C-N-CA	-5.01	112.69	120.31
4	FA	15	GLN	CA-CB-CG	5.01	124.12	114.10

There are no chirality outliers.

All (184) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	A2	206	ARG	Peptide
2	A4	31	ARG	Sidechain
3	AB	271	ALA	Peptide
3	AD	271	ALA	Peptide
3	AF	271	ALA	Peptide
4	AG	411	GLU	Peptide
3	AH	271	ALA	Peptide
3	AJ	271	ALA	Peptide
3	BB	271	ALA	Peptide
3	BD	271	ALA	Peptide
3	BF	130	LEU	Peptide
3	BF	271	ALA	Peptide
3	BH	271	ALA	Peptide
3	BJ	14	ASN	Peptide
3	BJ	15	GLN	Mainchain
3	BJ	271	ALA	Peptide
3	BL	271	ALA	Peptide
4	BM	224	TYR	Peptide
3	CB	271	ALA	Peptide
3	CD	271	ALA	Peptide
3	CF	271	ALA	Peptide
3	CH	271	ALA	Peptide
3	CJ	271	ALA	Peptide
3	CL	271	ALA	Peptide
4	CM	90	GLU	Peptide
3	DB	271	ALA	Peptide
3	DD	271	ALA	Peptide
3	DF	271	ALA	Peptide
3	DH	271	ALA	Peptide

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Mol	Chain	Res	Type	Group
3	DJ	271	ALA	Peptide
4	DK	10	GLY	Peptide
4	DK	11	GLN	Peptide
3	DL	271	ALA	Peptide
9	E	590	PHE	Peptide
10	E1	13	VAL	Peptide
10	E1	50	LYS	Peptide
10	E2	13	VAL	Peptide
10	E2	50	LYS	Peptide
10	E3	50	LYS	Peptide
3	EB	271	ALA	Peptide
4	EC	15	GLN	Sidechain
3	ED	271	ALA	Peptide
3	EF	271	ALA	Peptide
3	EH	271	ALA	Peptide
3	EJ	271	ALA	Peptide
3	EL	271	ALA	Peptide
3	FB	130	LEU	Peptide
3	FB	271	ALA	Peptide
4	FC	10	GLY	Peptide
3	FD	271	ALA	Peptide
3	FF	271	ALA	Peptide
3	FH	271	ALA	Peptide
3	FJ	130	LEU	Peptide
3	FJ	271	ALA	Peptide
3	FL	271	ALA	Peptide
11	Fb	402	ARG	Peptide
11	Fh	394	THR	Peptide
13	G1	33	TYR	Peptide
13	G2	111	MET	Peptide
13	G2	33	TYR	Peptide
13	G3	33	TYR	Peptide
14	G4	140	PRO	Peptide
14	G5	140	PRO	Peptide
14	G6	140	PRO	Peptide
14	G6	734	ARG	Sidechain
3	GB	271	ALA	Peptide
3	GD	271	ALA	Peptide
3	GF	130	LEU	Peptide
3	GF	271	ALA	Peptide
3	GH	271	ALA	Peptide
3	GJ	271	ALA	Peptide

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Mol	Chain	Res	Type	Group
3	GL	271	ALA	Peptide
3	HB	271	ALA	Peptide
4	HC	10	GLY	Peptide
4	HC	11	GLN	Peptide
3	HD	271	ALA	Peptide
3	HF	130	LEU	Peptide
3	HF	271	ALA	Peptide
3	HH	271	ALA	Peptide
4	HI	90	GLU	Peptide
3	HJ	271	ALA	Peptide
4	HK	90	GLU	Peptide
3	HL	271	ALA	Peptide
3	IB	271	ALA	Peptide
3	ID	271	ALA	Peptide
3	IF	130	LEU	Peptide
3	IF	271	ALA	Peptide
4	IG	202	PHE	Peptide
3	IH	271	ALA	Peptide
3	IJ	130	LEU	Peptide
3	IJ	271	ALA	Peptide
3	IL	271	ALA	Peptide
3	JB	271	ALA	Peptide
3	JD	271	ALA	Peptide
3	JF	271	ALA	Peptide
3	JH	271	ALA	Peptide
3	JJ	271	ALA	Peptide
3	JL	271	ALA	Peptide
21	K2	393	LEU	Peptide
21	K2	487	PRO	Peptide
21	K3	185	ARG	Peptide
21	K3	487	PRO	Peptide
21	K4	487	PRO	Peptide
3	KB	271	ALA	Peptide
3	KD	271	ALA	Peptide
3	KF	271	ALA	Peptide
3	KJ	271	ALA	Peptide
3	KL	271	ALA	Peptide
22	L2	47	LYS	Peptide
3	LB	271	ALA	Peptide
3	LD	271	ALA	Peptide
3	LF	271	ALA	Peptide
3	LH	271	ALA	Peptide

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Mol	Chain	Res	Type	Group
3	LL	271	ALA	Peptide
3	MB	241	ARG	Sidechain
3	MD	271	ALA	Peptide
3	MF	271	ALA	Peptide
3	MH	271	ALA	Peptide
3	MJ	271	ALA	Peptide
3	ML	271	ALA	Peptide
3	NB	271	ALA	Peptide
3	ND	271	ALA	Peptide
3	NF	271	ALA	Peptide
3	NH	271	ALA	Peptide
3	NJ	271	ALA	Peptide
3	NL	271	ALA	Peptide
3	OB	271	ALA	Peptide
3	OD	271	ALA	Peptide
4	OE	14	VAL	Peptide
3	OF	271	ALA	Peptide
3	OH	271	ALA	Peptide
3	OJ	271	ALA	Peptide
27	P	365	THR	Peptide
3	PB	271	ALA	Peptide
3	PD	271	ALA	Peptide
3	PF	271	ALA	Peptide
3	PH	271	ALA	Peptide
3	PJ	271	ALA	Peptide
3	PL	271	ALA	Peptide
3	QB	271	ALA	Peptide
3	QF	271	ALA	Peptide
3	QH	271	ALA	Peptide
3	QJ	271	ALA	Peptide
3	QL	271	ALA	Peptide
3	RD	271	ALA	Peptide
3	RF	271	ALA	Peptide
3	RJ	271	ALA	Peptide
3	RL	271	ALA	Peptide
3	SB	252	LYS	Peptide
3	SB	262	ARG	Sidechain
3	SB	271	ALA	Peptide
3	SD	262	ARG	Sidechain
3	SD	271	ALA	Peptide
3	SF	271	ALA	Peptide
3	SH	271	ALA	Peptide

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Mol	Chain	Res	Type	Group
3	TD	271	ALA	Peptide
3	TF	271	ALA	Peptide
3	TH	271	ALA	Peptide
3	TJ	271	ALA	Peptide
3	TL	15	GLN	Sidechain,Peptide
3	TL	271	ALA	Peptide
3	TN	271	ALA	Peptide
3	UB	271	ALA	Peptide
3	UD	271	ALA	Peptide
3	UF	271	ALA	Peptide
3	UH	271	ALA	Peptide
3	UJ	271	ALA	Peptide
3	UL	271	ALA	Peptide
3	VB	271	ALA	Peptide
3	VD	271	ALA	Peptide
3	VF	271	ALA	Peptide
3	VH	271	ALA	Peptide
3	VJ	262	ARG	Sidechain
3	VJ	271	ALA	Peptide
3	VL	271	ALA	Peptide
3	WB	271	ALA	Peptide
3	WD	271	ALA	Peptide
4	WE	10	GLY	Peptide
3	WF	271	ALA	Peptide
3	WH	271	ALA	Peptide
3	WJ	271	ALA	Peptide
3	WL	271	ALA	Peptide
35	XK	70	GLU	Peptide

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2736	0	2753	149	0
1	B	1673	0	1716	93	0
2	A1	2578	0	2613	148	0
2	A2	3251	0	3274	225	0
2	A3	3251	0	3274	210	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	A4	1563	0	1555	99	0
3	AB	3356	0	3237	177	0
3	AD	3356	0	3235	179	0
3	AF	3356	0	3236	177	0
3	AH	3356	0	3236	197	0
3	AJ	3356	0	3235	204	0
3	AL	3356	0	3236	183	0
3	BB	3356	0	3234	168	0
3	BD	3356	0	3235	192	0
3	BF	3356	0	3235	180	0
3	BH	3356	0	3235	183	0
3	BJ	3356	0	3234	197	0
3	BL	3356	0	3235	201	0
3	CB	3356	0	3238	199	0
3	CD	3356	0	3236	209	0
3	CF	3356	0	3235	188	0
3	CH	3356	0	3237	215	0
3	CJ	3356	0	3236	188	0
3	CL	3356	0	3234	211	0
3	DB	3356	0	3236	183	0
3	DD	3356	0	3235	211	0
3	DF	3356	0	3235	194	0
3	DH	3356	0	3235	172	0
3	DJ	3356	0	3235	197	0
3	DL	3356	0	3238	167	0
3	EB	3356	0	3236	191	0
3	ED	3356	0	3236	220	0
3	EF	3356	0	3236	173	0
3	EH	3356	0	3236	196	0
3	EJ	3356	0	3238	200	0
3	EL	3356	0	3237	184	0
3	FB	3356	0	3236	180	0
3	FD	3356	0	3237	189	0
3	FF	3356	0	3235	189	0
3	FH	3356	0	3236	199	0
3	FJ	3356	0	3237	182	0
3	FL	3356	0	3238	179	0
3	GB	3356	0	3235	195	0
3	GD	3356	0	3238	188	0
3	GF	3356	0	3235	214	0
3	GH	3356	0	3235	179	0
3	GJ	3356	0	3236	209	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	GL	3356	0	3237	185	0
3	HB	3356	0	3235	179	0
3	HD	3356	0	3235	176	0
3	HF	3356	0	3235	187	0
3	HH	3356	0	3236	186	0
3	HJ	3356	0	3236	198	0
3	HL	3356	0	3237	204	0
3	IB	3356	0	3235	217	0
3	ID	3356	0	3236	191	0
3	IF	3356	0	3237	186	0
3	IH	3356	0	3236	200	0
3	IJ	3356	0	3237	206	0
3	IL	3356	0	3234	187	0
3	JB	3356	0	3235	172	0
3	JD	3356	0	3235	181	0
3	JF	3356	0	3235	168	0
3	JH	3356	0	3235	186	0
3	JJ	3356	0	3235	178	0
3	JL	3356	0	3237	164	0
3	KB	3356	0	3237	181	0
3	KD	3356	0	3235	207	0
3	KF	3356	0	3234	182	0
3	KH	3356	0	3236	201	0
3	KJ	3356	0	3235	167	0
3	KL	3356	0	3237	202	0
3	LB	3356	0	3236	235	0
3	LD	3356	0	3232	204	0
3	LF	3356	0	3236	218	0
3	LH	3356	0	3237	198	0
3	LJ	3356	0	3232	228	0
3	LL	3356	0	3238	194	0
3	MB	3356	0	3235	179	0
3	MD	3356	0	3234	231	0
3	MF	3356	0	3236	187	0
3	MH	3356	0	3235	240	0
3	MJ	3356	0	3233	178	0
3	ML	3356	0	3235	239	0
3	NB	3356	0	3236	151	0
3	ND	3356	0	3236	167	0
3	NF	3356	0	3236	165	0
3	NH	3356	0	3236	180	0
3	NJ	3356	0	3235	153	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	NL	3356	0	3238	135	0
3	OB	3356	0	3235	181	0
3	OD	3356	0	3236	176	0
3	OF	3356	0	3235	178	0
3	OH	3356	0	3234	167	0
3	OJ	3356	0	3234	170	0
3	OL	3356	0	3237	160	0
3	PB	3356	0	3235	163	0
3	PD	3356	0	3235	180	0
3	PF	3356	0	3235	169	0
3	PH	3356	0	3235	177	0
3	PJ	3356	0	3234	178	0
3	PL	3356	0	3235	181	0
3	QB	3356	0	3235	185	0
3	QD	3356	0	3236	191	0
3	QF	3356	0	3233	174	0
3	QH	3356	0	3235	173	0
3	QJ	3356	0	3235	178	0
3	QL	3356	0	3234	165	0
3	RB	3356	0	3235	183	0
3	RD	3356	0	3236	184	0
3	RF	3356	0	3235	182	0
3	RH	3356	0	3236	213	0
3	RJ	3356	0	3236	183	0
3	RL	3356	0	3236	166	0
3	SB	3356	0	3235	181	0
3	SD	3356	0	3236	171	0
3	SF	3356	0	3236	187	0
3	SH	3356	0	3234	167	0
3	SJ	3356	0	3235	179	0
3	SL	3356	0	3236	177	0
3	TB	3356	0	3236	157	0
3	TD	3356	0	3235	184	0
3	TF	3356	0	3235	174	0
3	TH	3356	0	3235	196	0
3	TJ	3356	0	3233	185	0
3	TL	3356	0	3235	196	0
3	TN	3356	0	3238	162	0
3	UB	3356	0	3236	169	0
3	UD	3356	0	3234	171	0
3	UF	3356	0	3235	193	0
3	UH	3356	0	3236	178	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	UJ	3356	0	3234	183	0
3	UL	3356	0	3237	146	0
3	VB	3356	0	3236	192	0
3	VD	3356	0	3236	186	0
3	VF	3356	0	3235	190	0
3	VH	3356	0	3236	176	0
3	VJ	3356	0	3236	172	0
3	VL	3356	0	3238	151	0
3	WB	3356	0	3236	183	0
3	WD	3356	0	3238	189	0
3	WF	3356	0	3236	196	0
3	WH	3356	0	3234	175	0
3	WJ	3356	0	3236	182	0
3	WL	3356	0	3238	158	0
4	AC	3418	0	3327	217	0
4	AE	3418	0	3327	226	0
4	AG	3418	0	3328	212	0
4	AI	3418	0	3328	227	0
4	AK	3418	0	3328	205	0
4	AM	3418	0	3328	215	0
4	BC	3418	0	3327	189	0
4	BE	3418	0	3327	219	0
4	BG	3418	0	3329	198	0
4	BI	3418	0	3328	196	0
4	BK	3418	0	3327	218	0
4	BM	3418	0	3329	189	0
4	CC	3418	0	3328	218	0
4	CE	3418	0	3328	204	0
4	CG	3418	0	3328	233	0
4	CI	3418	0	3330	240	0
4	CK	3418	0	3327	240	0
4	CM	3418	0	3327	214	0
4	DA	3418	0	3328	194	0
4	DC	3418	0	3328	207	0
4	DE	3418	0	3328	217	0
4	DG	3418	0	3327	216	0
4	DI	3418	0	3329	201	0
4	DK	3418	0	3329	210	0
4	EA	3418	0	3328	189	0
4	EC	3418	0	3329	215	0
4	EE	3418	0	3329	204	0
4	EG	3418	0	3328	213	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	EI	3418	0	3329	256	0
4	EK	3418	0	3328	207	0
4	FA	3418	0	3329	174	0
4	FC	3418	0	3329	207	0
4	FE	3418	0	3328	213	0
4	FG	3418	0	3329	206	0
4	FI	3418	0	3327	210	0
4	FK	3418	0	3328	214	0
4	GA	3418	0	3329	192	0
4	GC	3418	0	3330	230	0
4	GE	3418	0	3329	239	0
4	GG	3418	0	3329	226	0
4	GI	3418	0	3328	234	0
4	GK	3418	0	3329	204	0
4	HA	3418	0	3328	226	0
4	HC	3418	0	3329	208	0
4	HE	3418	0	3328	215	0
4	HG	3418	0	3328	238	0
4	HI	3418	0	3329	230	0
4	HK	3418	0	3328	197	0
4	IA	3418	0	3328	199	0
4	IC	3418	0	3328	207	0
4	IE	3418	0	3329	208	0
4	IG	3418	0	3328	212	0
4	II	3418	0	3328	203	0
4	IK	3418	0	3329	216	0
4	IM	3418	0	3329	220	0
4	JA	3418	0	3329	160	0
4	JC	3418	0	3328	212	0
4	JE	3418	0	3328	210	0
4	JG	3418	0	3327	188	0
4	JI	3418	0	3327	205	0
4	JK	3418	0	3328	197	0
4	KA	3418	0	3327	193	0
4	KC	3418	0	3329	213	0
4	KE	3418	0	3327	224	0
4	KG	3418	0	3329	206	0
4	KI	3418	0	3328	245	0
4	KK	3418	0	3327	220	0
4	LA	3418	0	3328	208	0
4	LC	3418	0	3329	235	0
4	LE	3418	0	3329	225	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	LG	3418	0	3328	220	0
4	LI	3418	0	3329	226	0
4	LK	3418	0	3329	224	0
4	MC	3418	0	3328	247	0
4	ME	3418	0	3328	227	0
4	MG	3418	0	3327	234	0
4	MI	3418	0	3329	209	0
4	MK	3418	0	3330	241	0
4	MM	3418	0	3328	210	0
4	NA	3418	0	3329	149	0
4	NC	3418	0	3327	174	0
4	NE	3418	0	3329	179	0
4	NG	3418	0	3328	190	0
4	NI	3418	0	3327	191	0
4	NK	3418	0	3329	174	0
4	OA	3418	0	3329	148	0
4	OC	3418	0	3329	177	0
4	OE	3418	0	3329	189	0
4	OG	3418	0	3329	189	0
4	OI	3418	0	3328	184	0
4	OK	3418	0	3328	170	0
4	PA	3418	0	3328	174	0
4	PC	3418	0	3328	170	0
4	PE	3418	0	3329	196	0
4	PG	3418	0	3329	184	0
4	PI	3418	0	3328	221	0
4	PK	3418	0	3329	187	0
4	PM	3418	0	3329	188	0
4	QC	3418	0	3327	203	0
4	QE	3418	0	3328	202	0
4	QG	3418	0	3328	208	0
4	QI	3418	0	3328	197	0
4	QK	3418	0	3328	205	0
4	QM	3418	0	3328	191	0
4	RC	3418	0	3329	211	0
4	RE	3418	0	3328	180	0
4	RG	3418	0	3327	192	0
4	RI	3418	0	3328	208	0
4	RK	3418	0	3329	194	0
4	RM	3418	0	3327	180	0
4	SC	3418	0	3329	199	0
4	SE	3418	0	3327	194	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	SG	3418	0	3328	203	0
4	SI	3418	0	3328	221	0
4	SK	3418	0	3328	195	0
4	SM	3418	0	3328	174	0
4	TC	3418	0	3327	200	0
4	TE	3418	0	3328	183	0
4	TG	3418	0	3327	195	0
4	TI	3418	0	3327	179	0
4	TK	3418	0	3328	202	0
4	TM	3418	0	3328	186	0
4	UA	3418	0	3328	167	0
4	UC	3418	0	3328	194	0
4	UE	3418	0	3327	203	0
4	UG	3418	0	3328	200	0
4	UI	3418	0	3328	179	0
4	UK	3418	0	3327	172	0
4	VA	3418	0	3327	167	0
4	VC	3418	0	3329	189	0
4	VE	3418	0	3328	200	0
4	VG	3418	0	3328	208	0
4	VI	3418	0	3327	199	0
4	VK	3418	0	3328	187	0
4	WA	3418	0	3328	164	0
4	WC	3418	0	3329	178	0
4	WE	3418	0	3329	202	0
4	WG	3418	0	3327	189	0
4	WI	3418	0	3329	205	0
4	WK	3418	0	3329	186	0
5	B1	1941	0	1987	112	0
5	B2	3417	0	3436	189	0
5	B3	3417	0	3436	199	0
5	B4	2553	0	2563	143	0
5	B5	406	0	396	29	0
5	B6	2977	0	2998	181	0
5	B7	3324	0	3346	199	0
5	B8	3271	0	3289	186	0
5	B9	952	0	959	74	0
6	C	2945	0	2916	195	0
6	D	2945	0	2916	172	0
7	C1	803	0	770	65	0
7	C2	3169	0	3138	186	0
7	C3	3169	0	3138	194	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	C4	2934	0	2932	181	0
7	C5	523	0	548	47	0
7	C6	1633	0	1587	77	0
7	C7	3216	0	3192	178	0
7	C8	3216	0	3192	167	0
7	C9	2426	0	2435	127	0
7	Ca	1797	0	1822	94	0
7	Cb	3169	0	3138	157	0
7	Cc	3169	0	3138	169	0
7	Cd	2154	0	2095	84	0
8	D1	467	0	427	21	0
8	D2	2997	0	2907	180	0
8	D3	3488	0	3424	199	0
8	D4	3488	0	3424	214	0
8	D5	1063	0	1081	100	0
8	D6	612	0	622	37	0
8	D7	3031	0	3006	189	0
8	D8	3291	0	3235	203	0
8	D9	3260	0	3206	176	0
8	Da	490	0	460	44	0
9	E	2160	0	2083	97	0
9	F	1182	0	1209	71	0
10	E1	1558	0	1502	81	0
10	E2	1558	0	1502	87	0
10	E3	1558	0	1502	71	0
10	E4	472	0	447	22	0
11	F1	2335	0	2379	122	0
11	F2	3224	0	3221	204	0
11	F3	3224	0	3221	230	0
11	F4	1745	0	1676	100	0
11	F5	2116	0	2051	111	0
11	F6	3194	0	3192	189	0
11	F7	3194	0	3192	203	0
11	F8	1877	0	1946	128	0
11	F9	1412	0	1478	71	0
11	Fa	3194	0	3192	166	0
11	Fb	3194	0	3192	194	0
11	Fc	2585	0	2556	163	0
11	Fd	199	0	188	4	0
11	Fe	1946	0	1940	73	0
11	Ff	3224	0	3222	122	0
11	Fg	2561	0	2581	84	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
11	Fh	1495	0	1563	58	0
11	Fi	2235	0	2252	90	0
11	Fj	2272	0	2282	103	0
11	Fk	2721	0	2733	139	0
11	Fl	2721	0	2733	141	0
11	Fm	2677	0	2687	110	0
12	G	3804	0	3850	180	0
12	H	387	0	377	21	0
13	G1	4192	0	4130	238	0
13	G2	4081	0	4025	192	0
13	G3	4200	0	4135	203	0
14	G4	6177	0	6054	349	0
14	G5	6169	0	6044	317	0
14	G6	6169	0	6044	340	0
15	H1	1138	0	1091	77	0
15	H2	1107	0	1057	96	0
15	H3	1138	0	1091	98	0
15	H4	1127	0	1078	82	0
15	H5	1138	0	1091	83	0
15	H6	1118	0	1070	105	0
16	I	781	0	744	35	0
17	I1	298	0	281	18	0
17	I2	298	0	281	34	0
17	I3	298	0	281	23	0
18	J	1323	0	1287	77	0
19	J1	1378	0	1354	70	0
19	J2	1378	0	1354	56	0
19	J3	1378	0	1354	80	0
20	K	2154	0	2144	77	0
20	L	2154	0	2144	76	0
21	K1	847	0	889	60	0
21	K2	3408	0	3519	216	0
21	K3	3465	0	3572	222	0
21	K4	3181	0	3266	199	0
21	K5	400	0	408	22	0
22	L1	1728	0	1795	119	0
22	L2	1929	0	2013	161	0
22	L3	1929	0	2013	159	0
22	L4	609	0	653	49	0
23	M	944	0	885	64	0
24	M1	510	0	492	40	0
24	M2	510	0	492	36	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
24	M3	510	0	492	39	0
25	N	583	0	568	34	0
26	N1	535	0	512	16	0
26	N2	535	0	512	36	0
26	N3	535	0	512	39	0
26	N4	535	0	512	28	0
27	O	413	0	418	18	0
27	P	2693	0	2656	128	0
27	Q	1541	0	1502	92	0
27	R	1922	0	1892	69	0
28	O1	825	0	817	69	0
28	O2	825	0	817	77	0
28	O3	825	0	817	67	0
29	P1	4696	0	4674	178	0
29	P2	4696	0	4674	187	0
29	P3	4696	0	4674	139	0
30	Q1	1473	0	1492	113	0
30	Q2	1473	0	1492	119	0
30	Q3	1473	0	1492	110	0
31	R1	604	0	597	43	0
31	R2	604	0	597	38	0
31	R3	604	0	597	36	0
32	S	575	0	558	30	0
32	T	904	0	865	37	0
33	U	3125	0	3166	137	0
33	V	537	0	555	19	0
33	W	2733	0	2775	134	0
33	X	1506	0	1539	75	0
34	XA	1540	0	1570	86	0
34	XB	1540	0	1570	84	0
34	XC	1540	0	1570	90	0
34	XD	1540	0	1570	87	0
34	XE	1540	0	1570	96	0
34	XF	1540	0	1570	92	0
34	XG	1540	0	1570	96	0
35	XH	1469	0	1477	94	0
35	XI	1469	0	1477	86	0
35	XJ	1469	0	1477	91	0
35	XK	1469	0	1477	95	0
35	XL	1469	0	1477	86	0
35	XM	1469	0	1477	78	0
36	Y	1821	0	1858	78	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
36	Z	2401	0	2444	138	0
37	YA	1365	0	1356	57	0
37	YB	1365	0	1356	87	0
37	YC	1365	0	1356	64	0
37	YD	1365	0	1356	76	0
37	YE	1365	0	1356	61	0
37	YF	1365	0	1356	76	0
37	YG	1365	0	1356	71	0
37	YH	1365	0	1356	65	0
37	YI	1365	0	1356	73	0
37	YJ	1365	0	1356	55	0
37	YK	1365	0	1356	82	0
37	YL	1365	0	1356	63	0
37	YM	1365	0	1356	71	0
37	YN	1365	0	1356	65	0
37	YO	1365	0	1356	60	0
37	YP	1365	0	1356	71	0
37	YQ	1365	0	1356	70	0
37	YR	1365	0	1356	76	0
37	YS	1365	0	1356	61	0
37	YT	1365	0	1356	57	0
37	YU	1365	0	1356	60	0
37	YV	1365	0	1356	72	0
37	YW	1365	0	1356	68	0
38	a	782	0	780	52	0
39	AB	32	0	11	7	0
39	AC	32	0	12	4	0
39	AD	32	0	11	6	0
39	AE	32	0	12	5	0
39	AF	32	0	11	10	0
39	AG	32	0	12	6	0
39	AH	32	0	10	6	0
39	AI	32	0	12	4	0
39	AJ	32	0	11	7	0
39	AK	32	0	12	8	0
39	AL	32	0	10	8	0
39	AM	32	0	12	5	0
39	BB	32	0	11	7	0
39	BC	32	0	12	5	0
39	BD	32	0	10	7	0
39	BE	32	0	12	7	0
39	BF	32	0	11	9	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
39	BG	32	0	12	4	0
39	BH	32	0	11	9	0
39	BI	32	0	12	4	0
39	BJ	32	0	11	1	0
39	BK	32	0	12	9	0
39	BL	32	0	11	9	0
39	BM	32	0	12	9	0
39	CB	32	0	11	6	0
39	CC	32	0	12	5	0
39	CD	32	0	11	7	0
39	CE	32	0	12	7	0
39	CF	32	0	11	11	0
39	CG	32	0	12	8	0
39	CH	32	0	11	6	0
39	CI	32	0	12	4	0
39	CJ	32	0	10	7	0
39	CK	32	0	12	7	0
39	CL	32	0	11	3	0
39	CM	32	0	12	6	0
39	DA	32	0	12	6	0
39	DB	32	0	11	6	0
39	DC	32	0	12	9	0
39	DD	32	0	11	4	0
39	DE	32	0	12	6	0
39	DF	32	0	11	7	0
39	DG	32	0	12	8	0
39	DH	32	0	11	7	0
39	DI	32	0	12	6	0
39	DJ	32	0	10	6	0
39	DK	32	0	12	6	0
39	DL	32	0	11	7	0
39	EA	32	0	12	4	0
39	EB	32	0	11	9	0
39	EC	32	0	12	8	0
39	ED	32	0	10	4	0
39	EE	32	0	12	10	0
39	EF	32	0	11	3	0
39	EG	32	0	12	2	0
39	EH	32	0	10	8	0
39	EI	32	0	12	10	0
39	EJ	32	0	11	8	0
39	EK	32	0	12	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
39	EL	32	0	11	6	0
39	FA	32	0	12	6	0
39	FB	32	0	11	8	0
39	FC	32	0	12	7	0
39	FD	32	0	10	8	0
39	FE	32	0	12	7	0
39	FF	32	0	10	6	0
39	FG	32	0	12	6	0
39	FH	32	0	10	7	0
39	FI	32	0	12	5	0
39	FJ	32	0	10	6	0
39	FK	32	0	12	12	0
39	FL	32	0	10	6	0
39	GA	32	0	12	5	0
39	GB	32	0	10	9	0
39	GC	32	0	12	9	0
39	GD	32	0	10	8	0
39	GE	32	0	12	5	0
39	GF	32	0	10	7	0
39	GG	32	0	12	6	0
39	GH	32	0	10	9	0
39	GI	32	0	12	5	0
39	GJ	32	0	11	7	0
39	GK	32	0	12	7	0
39	GL	32	0	10	8	0
39	HA	32	0	12	5	0
39	HB	32	0	11	7	0
39	HC	32	0	12	2	0
39	HD	32	0	10	7	0
39	HE	32	0	12	5	0
39	HF	32	0	11	5	0
39	HG	32	0	12	5	0
39	HH	32	0	11	9	0
39	HI	32	0	12	3	0
39	HJ	32	0	10	7	0
39	HK	32	0	12	6	0
39	HL	32	0	10	6	0
39	IA	32	0	12	6	0
39	IB	32	0	10	5	0
39	IC	32	0	12	7	0
39	ID	32	0	11	8	0
39	IE	32	0	12	7	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
39	IF	32	0	11	8	0
39	IG	32	0	12	9	0
39	IH	32	0	10	6	0
39	II	32	0	12	4	0
39	IJ	32	0	11	10	0
39	IK	32	0	12	3	0
39	IL	32	0	10	4	0
39	IM	32	0	12	8	0
39	JA	32	0	12	3	0
39	JB	32	0	11	7	0
39	JC	32	0	12	4	0
39	JD	32	0	10	7	0
39	JE	32	0	12	4	0
39	JF	32	0	10	5	0
39	JG	32	0	12	3	0
39	JH	32	0	11	10	0
39	JI	32	0	12	10	0
39	JJ	32	0	11	8	0
39	JK	32	0	12	5	0
39	JL	32	0	11	8	0
39	KA	32	0	12	5	0
39	KB	32	0	11	6	0
39	KC	32	0	12	6	0
39	KD	32	0	11	9	0
39	KE	32	0	12	8	0
39	KF	32	0	10	6	0
39	KG	32	0	12	7	0
39	KH	32	0	10	5	0
39	KI	32	0	12	5	0
39	KJ	32	0	11	7	0
39	KK	32	0	12	3	0
39	KL	32	0	11	9	0
39	LA	32	0	12	5	0
39	LB	32	0	10	7	0
39	LC	32	0	12	6	0
39	LD	32	0	11	6	0
39	LE	32	0	12	2	0
39	LF	32	0	11	8	0
39	LG	32	0	12	4	0
39	LH	32	0	11	8	0
39	LI	32	0	12	3	0
39	LJ	32	0	11	8	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
39	LK	32	0	12	4	0
39	LL	32	0	11	8	0
39	MB	32	0	11	8	0
39	MC	32	0	12	9	0
39	MD	64	0	23	9	0
39	MF	32	0	11	9	0
39	MG	32	0	12	6	0
39	MH	32	0	11	7	0
39	MI	32	0	12	8	0
39	MJ	32	0	11	10	0
39	MK	32	0	12	5	0
39	ML	32	0	10	9	0
39	MM	32	0	12	6	0
39	NA	32	0	12	3	0
39	NB	32	0	11	7	0
39	NC	32	0	12	6	0
39	ND	32	0	10	4	0
39	NE	32	0	12	5	0
39	NF	32	0	11	8	0
39	NG	32	0	12	5	0
39	NH	32	0	10	10	0
39	NI	32	0	12	11	0
39	NJ	32	0	10	6	0
39	NK	32	0	12	5	0
39	NL	32	0	11	5	0
39	OA	32	0	12	5	0
39	OB	32	0	11	8	0
39	OC	32	0	12	4	0
39	OD	32	0	11	6	0
39	OE	32	0	12	4	0
39	OF	32	0	10	7	0
39	OG	32	0	12	6	0
39	OH	32	0	11	7	0
39	OI	32	0	12	6	0
39	OJ	32	0	11	7	0
39	OK	32	0	12	4	0
39	OL	32	0	11	6	0
39	PA	32	0	12	7	0
39	PB	32	0	11	9	0
39	PC	32	0	12	5	0
39	PD	32	0	10	4	0
39	PE	32	0	12	7	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
39	PF	32	0	11	8	0
39	PG	32	0	12	3	0
39	PH	32	0	10	6	0
39	PI	32	0	12	5	0
39	PJ	32	0	11	7	0
39	PK	32	0	12	2	0
39	PL	32	0	10	8	0
39	PM	32	0	12	6	0
39	QB	32	0	11	9	0
39	QC	32	0	12	6	0
39	QD	64	0	23	14	0
39	QF	32	0	10	6	0
39	QG	32	0	12	4	0
39	QH	32	0	11	6	0
39	QI	32	0	12	4	0
39	QJ	32	0	11	7	0
39	QK	32	0	12	6	0
39	QL	64	0	23	10	0
39	RB	32	0	10	7	0
39	RC	32	0	12	4	0
39	RD	32	0	11	9	0
39	RE	32	0	12	5	0
39	RF	32	0	11	7	0
39	RG	32	0	12	5	0
39	RH	32	0	11	9	0
39	RI	32	0	12	4	0
39	RJ	32	0	11	8	0
39	RK	32	0	12	8	0
39	RL	32	0	11	7	0
39	RM	32	0	12	5	0
39	SB	32	0	10	7	0
39	SC	32	0	12	5	0
39	SD	32	0	11	7	0
39	SE	32	0	12	5	0
39	SF	32	0	10	6	0
39	SG	32	0	12	7	0
39	SH	32	0	11	9	0
39	SI	32	0	12	7	0
39	SJ	32	0	11	7	0
39	SK	32	0	12	6	0
39	SL	32	0	10	8	0
39	SM	32	0	12	7	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
39	TB	32	0	11	7	0
39	TC	32	0	12	7	0
39	TD	32	0	10	7	0
39	TE	32	0	12	4	0
39	TF	32	0	11	6	0
39	TG	32	0	12	5	0
39	TH	32	0	11	6	0
39	TI	32	0	12	6	0
39	TJ	32	0	10	10	0
39	TK	32	0	12	2	0
39	TL	32	0	11	5	0
39	TM	32	0	12	4	0
39	TN	32	0	11	7	0
39	UA	32	0	12	3	0
39	UB	32	0	11	7	0
39	UC	32	0	12	5	0
39	UD	32	0	11	8	0
39	UE	32	0	12	5	0
39	UF	32	0	10	9	0
39	UG	32	0	12	6	0
39	UH	32	0	10	7	0
39	UI	32	0	12	7	0
39	UJ	32	0	11	8	0
39	UK	32	0	12	9	0
39	UL	32	0	10	7	0
39	VA	32	0	12	3	0
39	VB	32	0	10	7	0
39	VC	32	0	12	6	0
39	VD	32	0	11	8	0
39	VE	32	0	12	6	0
39	VF	32	0	11	9	0
39	VG	32	0	12	7	0
39	VH	32	0	10	9	0
39	VI	32	0	12	8	0
39	VJ	32	0	11	7	0
39	VK	32	0	12	2	0
39	VL	32	0	11	8	0
39	WA	32	0	12	5	0
39	WB	32	0	11	7	0
39	WC	32	0	12	6	0
39	WD	32	0	11	10	0
39	WE	32	0	12	7	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
39	WF	32	0	11	8	0
39	WG	32	0	12	7	0
39	WH	32	0	10	4	0
39	WI	32	0	12	5	0
39	WJ	32	0	10	7	0
39	WK	32	0	12	1	0
39	WL	32	0	11	9	0
All	All	1283344	0	1247168	66836	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 26.

All (66836) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FD:99:ASN:HB2	3:FD:142:GLY:HA3	1.39	1.03
4:GG:30:ILE:HA	4:GG:36:MET:HE1	1.40	1.02
11:Fb:402:ARG:HG2	11:Fb:406:GLU:HG2	1.38	1.01
7:C7:361:ILE:HD12	7:C7:462:LYS:HZ1	1.25	1.01
3:TL:15:GLN:HB3	3:TL:16:ILE:HG13	1.44	1.00
3:BB:131:GLN:HB3	3:BB:163:ILE:HD12	1.46	0.98
7:C8:361:ILE:HD12	7:C8:462:LYS:HZ1	1.28	0.97
35:XH:199:GLN:HE21	35:XH:199:GLN:N	1.61	0.97
4:GE:30:ILE:HA	4:GE:36:MET:HE1	1.47	0.96
4:MG:88:HIS:HB3	4:MG:91:GLN:HB2	1.46	0.96
11:F7:127:LYS:HD3	11:F8:426:THR:HG23	1.46	0.96
3:RB:247:ASN:HB3	3:RB:252:LYS:HD2	1.47	0.95
3:BB:12:CYS:HA	3:BB:15:GLN:HE22	1.32	0.95
5:B3:176:HIS:HA	5:B3:179:LYS:HZ3	1.31	0.95
4:EA:213:CYS:HB3	4:EA:219:ILE:HB	1.49	0.94
22:L3:254:ASN:H	33:W:106:PRO:HD2	1.30	0.94
4:LE:203:MET:HE1	4:LE:267:PHE:HB3	1.49	0.94
29:P3:261:MET:HG3	30:Q3:1501:LEU:HD11	1.48	0.94
3:QJ:372:THR:HB	3:QJ:375:GLN:HE22	1.32	0.94
4:EC:15:GLN:OE1	39:EC:501:GTP:N1	2.01	0.94
4:FA:30:ILE:HA	4:FA:36:MET:HE1	1.48	0.94
3:ND:12:CYS:HA	3:ND:15:GLN:HG2	1.50	0.93
15:H3:255:ARG:HD2	15:H3:257:PRO:HD3	1.50	0.93
4:KK:30:ILE:HA	4:KK:36:MET:HE1	1.49	0.93
3:ML:391:ARG:HH21	28:O3:47:GLY:H	0.95	0.93
11:F7:280:PHE:HB2	11:F8:393:GLN:HE22	1.33	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BI:224:TYR:HA	4:BI:227:LEU:HB2	1.52	0.92
5:B2:282:GLN:HE22	5:B3:25:SER:HA	1.32	0.92
3:SF:271:ALA:HA	3:SF:293:MET:HE1	1.49	0.92
22:L3:85:LYS:HD3	4:LI:264:ARG:H	1.35	0.92
4:VG:203:MET:HE1	4:VG:267:PHE:HB3	1.52	0.91
16:I:88:TRP:HH2	3:JB:357:PRO:HD2	1.35	0.91
5:B7:45:LEU:HD23	19:J2:97:ARG:HE	1.34	0.91
11:Fl:364:ILE:HG12	11:Fl:444:LEU:HD12	1.52	0.91
14:G6:646:ASP:HB2	14:G6:649:LYS:HG3	1.52	0.91
5:B9:307:LYS:HZ2	5:B9:349:ILE:HA	1.34	0.91
3:EB:359:ARG:HH21	14:G4:493:VAL:HG12	1.35	0.91
3:MH:213:ARG:O	3:MH:216:LYS:NZ	2.04	0.91
3:BF:131:GLN:HB3	3:BF:163:ILE:HD12	1.53	0.91
4:CK:229:ARG:HH12	4:CK:366:GLY:HA2	1.36	0.91
11:Fc:343:PHE:HD2	11:Fc:470:MET:HE2	1.35	0.91
14:G5:646:ASP:HB2	14:G5:649:LYS:HG3	1.50	0.91
8:D8:363:ARG:HH21	8:D8:369:CYS:H	1.12	0.90
4:ME:203:MET:HE1	4:ME:267:PHE:HB3	1.54	0.90
15:H2:24:TYR:HH	15:H2:35:TYR:HH	1.07	0.90
3:AH:131:GLN:HB3	3:AH:163:ILE:HD12	1.52	0.90
4:WC:203:MET:HE1	4:WC:267:PHE:HB3	1.52	0.90
4:MI:30:ILE:HA	4:MI:36:MET:HE1	1.54	0.90
3:PL:309:ARG:HE	3:PL:426:GLN:HE21	1.17	0.90
7:C2:281:VAL:HA	7:C3:398:THR:HG21	1.53	0.90
3:KB:309:ARG:HE	3:KB:426:GLN:HE21	1.18	0.90
21:K3:380:GLY:HA3	24:M3:51:MET:HE3	1.52	0.90
4:NA:25:CYS:HB2	4:NA:30:ILE:HB	1.54	0.89
3:RB:211:CYS:HA	3:RB:215:LEU:HB2	1.53	0.89
14:G4:486:VAL:HG13	14:G4:502:ILE:HD13	1.54	0.89
4:GA:419:SER:HA	4:GA:422:ARG:HE	1.37	0.89
2:A3:43:ARG:NH2	5:B3:40:GLN:O	2.05	0.89
6:D:28:PHE:HB2	6:D:45:LEU:HB2	1.54	0.89
14:G6:622:ARG:O	14:G6:622:ARG:NH1	2.06	0.89
7:C8:403:ARG:HE	7:C8:417:GLN:HE21	1.20	0.89
25:N:73:ARG:HH11	25:N:75:PHE:HB2	1.38	0.89
3:TL:11:GLN:HA	3:TL:14:ASN:HB2	1.52	0.89
36:Y:162:ARG:HH12	36:Z:486:PRO:HB2	1.38	0.89
4:CM:419:SER:HA	4:CM:422:ARG:HE	1.38	0.89
4:GE:49:PHE:HB2	4:GE:53:PHE:HB2	1.55	0.89
22:L2:129:ARG:HH22	4:LG:93:ILE:HA	1.37	0.89
3:WB:94:GLN:HE21	35:XH:72:ASP:HB2	1.36	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:175:LEU:HA	2:A2:178:LYS:HG2	1.55	0.88
4:GI:351:PHE:CE1	3:GJ:175:VAL:HG22	2.08	0.88
33:W:198:ILE:HD11	33:X:525:LEU:HD22	1.53	0.88
4:RM:101:ASN:HA	4:RM:144:GLY:HA2	1.55	0.88
2:A2:58:ASP:HA	2:A2:61:LYS:HD3	1.56	0.88
3:EB:246:LEU:HB2	3:EB:352:ALA:HB1	1.55	0.88
4:FK:2:ARG:HA	4:FK:133:GLN:HE22	1.38	0.88
3:ML:391:ARG:HH12	3:ML:392:LYS:HE3	1.39	0.88
3:UF:271:ALA:HA	3:UF:293:MET:HE1	1.53	0.88
4:HE:101:ASN:HA	4:HE:144:GLY:HA2	1.55	0.88
11:F1:402:ARG:HD3	11:F1:406:GLU:HG2	1.53	0.88
11:F9:360:GLN:HE22	11:Fa:103:ILE:HG12	1.37	0.88
4:HA:49:PHE:HB2	4:HA:53:PHE:HB2	1.53	0.88
34:XE:72:LYS:HE2	35:XL:62:ARG:HD2	1.56	0.88
3:FD:309:ARG:HE	3:FD:426:GLN:HE21	1.20	0.88
4:LC:101:ASN:HA	4:LC:144:GLY:HA2	1.53	0.88
3:PF:12:CYS:HA	3:PF:15:GLN:HE22	1.38	0.88
2:A3:162:ARG:HH11	2:A3:165:ARG:HH22	1.17	0.88
4:HE:104:ALA:HB1	4:HE:413:MET:HE3	1.55	0.88
4:HG:101:ASN:HA	4:HG:144:GLY:HA2	1.55	0.88
3:EL:78:SER:HB3	13:G3:465:LYS:HZ3	1.39	0.88
11:F6:141:ASN:HD21	11:F7:411:VAL:HG13	1.39	0.88
3:GH:412:GLU:OE1	3:GH:416:ASN:ND2	2.06	0.88
21:K4:187:LYS:HD3	21:K4:188:CYS:H	1.39	0.88
3:WB:12:CYS:HA	3:WB:15:GLN:HE22	1.39	0.88
3:LJ:273:LEU:H	3:LJ:292:GLN:HE22	1.22	0.88
3:EJ:309:ARG:HE	3:EJ:426:GLN:HE21	1.20	0.87
4:AE:208:ALA:H	4:AE:304:LYS:HZ1	1.17	0.87
3:EL:74:ASP:O	13:G3:465:LYS:NZ	2.06	0.87
4:GC:229:ARG:HH22	4:GC:367:ASP:H	1.19	0.87
8:D7:324:LYS:HG3	8:D8:71:ARG:HH12	1.40	0.87
4:DE:203:MET:HE1	4:DE:267:PHE:HB3	1.55	0.87
11:F3:170:MET:HA	11:F3:173:LEU:HD12	1.56	0.87
3:LD:12:CYS:HA	3:LD:15:GLN:HE22	1.40	0.87
3:UH:28:HIS:HD1	3:UH:43:GLN:HB2	1.37	0.87
4:TI:101:ASN:HA	4:TI:144:GLY:HA2	1.57	0.87
4:PC:207:GLU:HB2	4:PC:304:LYS:HZ1	1.40	0.87
11:Fi:174:LYS:HZ1	11:Fi:240:ILE:HD11	1.38	0.87
3:CD:211:CYS:HA	3:CD:215:LEU:HB3	1.56	0.87
15:H5:13:GLU:HG2	15:H5:40:ALA:HA	1.54	0.87
3:PJ:12:CYS:HA	3:PJ:15:GLN:HE22	1.38	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:127:LYS:HE3	1:B:464:PRO:HG2	1.54	0.87
2:A2:205:VAL:HG12	2:A2:206:ARG:HH11	1.37	0.87
7:C4:142:SER:HA	7:C5:419:ARG:HH22	1.40	0.87
6:D:115:ALA:HB3	6:D:180:MET:HB2	1.56	0.87
4:PE:203:MET:HE1	4:PE:267:PHE:HB3	1.55	0.87
11:F6:159:GLU:HA	11:F6:162:ARG:HH21	1.39	0.87
3:LJ:340:TYR:HA	24:M3:64:MET:HE1	1.57	0.86
28:O3:102:LEU:HA	28:O3:109:LEU:HD23	1.56	0.86
4:OE:84:ARG:HH22	37:YH:124:HIS:HA	1.39	0.86
2:A2:43:ARG:NH2	5:B4:40:GLN:O	2.08	0.86
3:BF:48:ASN:HD21	15:H3:23:PHE:HB3	1.40	0.86
5:B3:123:ARG:HH21	5:B3:386:LEU:HD12	1.40	0.86
3:ED:134:GLN:HB2	3:ED:167:PHE:HE2	1.41	0.86
3:LB:135:LEU:HD21	3:LB:151:LEU:HD11	1.56	0.86
3:UB:182:PRO:HB2	3:UB:388:MET:HE1	1.57	0.86
3:KJ:182:PRO:HB2	3:KJ:388:MET:HE1	1.58	0.86
34:XD:149:ILE:HG22	34:XD:150:GLU:HG2	1.54	0.86
4:JK:30:ILE:HA	4:JK:36:MET:HE1	1.56	0.86
3:MH:215:LEU:O	3:MH:276:ARG:NH1	2.08	0.86
3:ND:11:GLN:O	3:ND:15:GLN:NE2	2.07	0.86
4:BG:49:PHE:HB2	4:BG:53:PHE:HB2	1.58	0.86
3:OJ:271:ALA:HA	3:OJ:293:MET:HE1	1.56	0.86
2:A1:175:LEU:HA	2:A1:178:LYS:HG2	1.57	0.86
3:IB:247:ASN:HB3	3:IB:252:LYS:HG3	1.58	0.86
18:J:123:LYS:HB2	18:J:127:LEU:HD11	1.55	0.86
3:JD:211:CYS:HA	3:JD:215:LEU:HB2	1.58	0.86
3:KL:278:SER:HA	3:KL:281:TYR:HB2	1.55	0.86
3:LB:302:ALA:HB1	3:LB:377:LEU:HD11	1.57	0.86
3:OB:309:ARG:HE	3:OB:426:GLN:HE21	1.23	0.86
4:BI:203:MET:HE1	4:BI:267:PHE:HB3	1.58	0.86
3:GJ:362:LYS:NZ	25:N:59:MET:SD	2.49	0.86
4:UI:101:ASN:HA	4:UI:144:GLY:HA2	1.56	0.86
2:A3:58:ASP:HA	2:A3:61:LYS:HD3	1.56	0.85
11:F3:247:GLN:NE2	11:F3:251:GLU:OE2	2.09	0.85
15:H6:216:LYS:HG3	15:H6:217:ALA:H	1.41	0.85
29:P1:121:PRO:HD2	29:P1:171:ASP:HA	1.58	0.85
3:SH:345:ILE:HD11	4:SI:181:VAL:HG11	1.58	0.85
4:EE:30:ILE:HA	4:EE:36:MET:HE1	1.59	0.85
3:GF:99:ASN:HB2	3:GF:142:GLY:HA3	1.54	0.85
3:VF:271:ALA:HA	3:VF:293:MET:HE1	1.58	0.85
4:AG:244:PHE:HB2	4:AG:356:ASN:HD21	1.39	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B7:6:PHE:HB3	5:B7:11:ARG:HH12	1.42	0.85
4:DE:9:VAL:HG11	4:DE:150:ALA:HB2	1.57	0.85
3:GH:143:THR:HG22	3:GH:147:MET:HE2	1.58	0.85
3:IH:278:SER:HA	3:IH:281:TYR:HB2	1.56	0.85
3:VD:309:ARG:HE	3:VD:426:GLN:HE21	1.20	0.85
13:G3:420:LEU:HB2	13:G3:442:TYR:HB3	1.58	0.85
20:L:10:VAL:HG22	20:L:12:MET:HE3	1.58	0.85
3:TF:271:ALA:HA	3:TF:293:MET:HE1	1.56	0.85
4:EG:49:PHE:HB2	4:EG:53:PHE:HB2	1.58	0.85
22:L1:124:ILE:HB	22:L1:133:LYS:HZ2	1.39	0.85
3:VB:271:ALA:HA	3:VB:293:MET:HE1	1.58	0.85
11:Ff:289:THR:HA	11:Fg:407:LEU:HB3	1.59	0.85
14:G6:734:ARG:HE	14:G6:735:TYR:H	1.23	0.85
3:MB:273:LEU:H	3:MB:292:GLN:HE22	1.22	0.85
3:OF:344:TRP:HZ3	4:OG:401:LYS:HG3	1.41	0.85
4:AM:402:ARG:HH21	35:XM:233:PRO:HG2	1.42	0.85
4:BC:49:PHE:HB2	4:BC:53:PHE:HB2	1.57	0.85
3:UB:213:ARG:O	3:UB:216:LYS:NZ	2.10	0.85
5:B2:7:LYS:HZ3	8:D5:329:ILE:HB	1.40	0.85
4:OI:49:PHE:HB2	4:OI:53:PHE:HB2	1.59	0.85
8:D2:117:LEU:HD12	8:D2:218:LYS:HZ3	1.42	0.85
11:Fk:364:ILE:HG12	11:Fk:444:LEU:HD12	1.58	0.85
7:C2:319:ALA:HA	7:C2:322:ARG:HE	1.42	0.85
3:EL:357:PRO:HB3	3:EL:362:LYS:HA	1.59	0.85
4:HE:203:MET:HE1	4:HE:267:PHE:HB3	1.57	0.85
4:KE:30:ILE:HA	4:KE:36:MET:HE1	1.55	0.85
22:L3:119:LYS:HE2	4:LK:411:GLU:HA	1.59	0.85
3:TJ:273:LEU:H	3:TJ:292:GLN:HE22	1.25	0.85
15:H2:228:PHE:HA	15:H2:232:MET:HE2	1.59	0.84
22:L1:85:LYS:HD3	4:LA:264:ARG:H	1.41	0.84
4:NC:101:ASN:HA	4:NC:144:GLY:HA2	1.58	0.84
11:F1:396:LEU:HD11	11:F1:416:LEU:HD13	1.58	0.84
4:IE:30:ILE:HA	4:IE:36:MET:HE1	1.57	0.84
3:RB:12:CYS:HA	3:RB:15:GLN:HE22	1.42	0.84
4:TM:49:PHE:HB2	4:TM:53:PHE:HB2	1.59	0.84
34:XB:1:MET:HG2	34:XB:67:LYS:HE3	1.58	0.84
9:F:325:GLU:HB3	4:IK:221:ARG:HG3	1.59	0.84
4:LI:370:LYS:NZ	27:R:287:THR:OG1	2.10	0.84
4:PM:49:PHE:HB2	4:PM:53:PHE:HB2	1.60	0.84
3:QB:385:PHE:HA	3:QB:388:MET:HE2	1.58	0.84
4:QK:203:MET:HE1	4:QK:267:PHE:HB3	1.58	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TJ:246:LEU:HB2	3:TJ:352:ALA:HB1	1.59	0.84
4:HK:12:ALA:HB2	39:HK:501:GTP:H5"	1.60	0.84
4:MC:101:ASN:HA	4:MC:144:GLY:HA2	1.58	0.84
4:OK:101:ASN:HA	4:OK:144:GLY:HA2	1.58	0.84
4:AC:101:ASN:HA	4:AC:144:GLY:HA2	1.58	0.84
3:DD:134:GLN:HB2	3:DD:167:PHE:HE2	1.39	0.84
11:F3:96:ASP:HA	11:F3:99:ASN:HD22	1.42	0.84
4:FK:25:CYS:HB2	4:FK:30:ILE:HB	1.59	0.84
3:TJ:135:LEU:HD21	3:TJ:151:LEU:HD11	1.60	0.84
4:UC:261:PRO:HG3	4:UC:313:MET:HE3	1.60	0.84
18:J:109:TYR:HB2	18:J:134:PRO:HG3	1.58	0.84
4:PC:101:ASN:HA	4:PC:144:GLY:HA2	1.60	0.84
3:PL:245:GLN:OE1	4:PM:15:GLN:NE2	2.09	0.84
6:C:115:ALA:HB3	6:C:180:MET:HB2	1.57	0.84
4:CI:12:ALA:HB1	39:CI:501:GTP:C2	2.13	0.84
4:BI:104:ALA:HB1	4:BI:413:MET:HE3	1.59	0.84
13:G1:194:LEU:HD12	13:G1:199:ILE:HD12	1.58	0.84
3:GL:6:HIS:HD2	3:GL:134:GLN:HG2	1.42	0.84
4:JA:101:ASN:HA	4:JA:144:GLY:HA2	1.58	0.84
4:UA:49:PHE:HB2	4:UA:53:PHE:HB2	1.58	0.84
4:EK:419:SER:HA	4:EK:422:ARG:HE	1.43	0.84
3:KB:173:PRO:O	3:KB:380:ARG:NH2	2.11	0.84
4:QC:49:PHE:HB2	4:QC:53:PHE:HB2	1.58	0.84
5:B6:268:ARG:HG3	5:B6:272:MET:HE1	1.56	0.84
3:HD:12:CYS:HB3	39:HD:501:GTP:H5'	1.60	0.84
4:KI:224:TYR:HA	4:KI:227:LEU:HB2	1.60	0.84
22:L2:31:PHE:HA	22:L2:35:ILE:HG22	1.58	0.84
4:WG:131:GLY:O	35:XK:71:HIS:NE2	2.11	0.84
6:C:314:TYR:HA	6:C:317:MET:HE3	1.60	0.83
4:CM:89:PRO:HD2	4:DK:280:LYS:HZ3	1.40	0.83
19:J2:177:ASN:HA	19:J2:180:GLU:HB3	1.60	0.83
22:L3:124:ILE:HB	22:L3:133:LYS:HZ2	1.42	0.83
4:RK:70:LEU:HD13	4:RK:95:GLY:HA3	1.59	0.83
4:SM:203:MET:HE1	4:SM:267:PHE:HB3	1.60	0.83
35:XL:145:ASN:HB3	35:XL:148:ILE:HD12	1.59	0.83
3:AB:385:PHE:HA	3:AB:388:MET:HE2	1.59	0.83
3:JF:309:ARG:HE	3:JF:426:GLN:HE21	1.26	0.83
4:LG:12:ALA:HB2	39:LG:501:GTP:H5"	1.60	0.83
4:LK:338:LYS:HZ2	4:LK:340:THR:H	1.25	0.83
4:RC:49:PHE:HB2	4:RC:53:PHE:HB2	1.61	0.83
3:TN:385:PHE:HA	3:TN:388:MET:HE2	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UC:101:ASN:HA	4:UC:144:GLY:HA2	1.60	0.83
5:B4:64:LEU:HB3	5:B4:190:LEU:HD11	1.59	0.83
22:L2:85:LYS:HD3	4:LE:264:ARG:H	1.42	0.83
4:LE:338:LYS:HZ2	4:LE:340:THR:H	1.24	0.83
4:NI:25:CYS:HB2	4:NI:30:ILE:HB	1.59	0.83
3:NJ:323:MET:HE3	4:NK:224:TYR:HE1	1.43	0.83
4:TI:49:PHE:HB2	4:TI:53:PHE:HB2	1.60	0.83
37:YQ:9:ARG:HH12	37:YQ:13:GLN:HB2	1.43	0.83
4:IM:49:PHE:HB2	4:IM:53:PHE:HB2	1.56	0.83
3:OD:286:VAL:HA	3:OD:363:MET:HE1	1.60	0.83
3:OJ:135:LEU:HD21	3:OJ:151:LEU:HD11	1.60	0.83
4:TC:101:ASN:HA	4:TC:144:GLY:HA2	1.58	0.83
15:H2:216:LYS:HB2	15:H2:237:ARG:HD3	1.61	0.83
4:HI:9:VAL:HG11	4:HI:150:ALA:HB2	1.61	0.83
22:L2:86:PRO:O	4:LE:264:ARG:NH1	2.11	0.83
3:WB:309:ARG:HE	3:WB:426:GLN:HE21	1.21	0.83
34:XA:20:LYS:O	34:XA:23:GLN:NE2	2.11	0.83
8:D7:353:ALA:HA	8:D7:356:ARG:HD2	1.61	0.83
3:HH:247:ASN:HB3	3:HH:252:LYS:HG2	1.60	0.83
4:HI:203:MET:HE1	4:HI:267:PHE:HB3	1.58	0.83
3:LB:423:GLN:HB3	24:M1:84:LEU:HD11	1.60	0.83
3:NB:309:ARG:HE	3:NB:426:GLN:HE21	1.22	0.83
4:QC:80:THR:HA	4:QC:84:ARG:HH11	1.41	0.83
4:RK:203:MET:HE1	4:RK:267:PHE:HB3	1.60	0.83
4:TC:49:PHE:HB2	4:TC:53:PHE:HB2	1.59	0.83
4:VA:419:SER:HA	4:VA:422:ARG:HE	1.43	0.83
4:VI:101:ASN:HA	4:VI:144:GLY:HA2	1.61	0.83
6:C:165:TYR:OH	7:Cb:158:SER:OG	1.97	0.83
4:GK:25:CYS:HB2	4:GK:30:ILE:HB	1.61	0.83
4:LG:338:LYS:HZ2	4:LG:340:THR:H	1.25	0.83
3:QL:3:GLU:HG2	3:QL:130:LEU:HD23	1.61	0.83
4:RG:208:ALA:H	4:RG:304:LYS:HZ1	1.25	0.83
4:WG:244:PHE:HB2	4:WG:356:ASN:HD21	1.44	0.83
4:AE:244:PHE:HB2	4:AE:356:ASN:HD21	1.42	0.83
11:Fc:327:THR:HG22	11:Fc:331:GLN:HE22	1.41	0.83
4:LI:203:MET:HE1	4:LI:267:PHE:HB3	1.61	0.83
3:MH:295:ASP:HB2	3:MH:298:ASN:HB2	1.60	0.83
3:WJ:309:ARG:HE	3:WJ:426:GLN:HE21	1.23	0.83
4:BK:49:PHE:HB2	4:BK:53:PHE:HB2	1.60	0.83
4:DG:30:ILE:HA	4:DG:36:MET:HE1	1.60	0.83
3:ED:374:ILE:HA	3:ED:377:LEU:HD13	1.61	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FH:12:CYS:HA	3:FH:15:GLN:HE22	1.42	0.83
4:OK:11:GLN:HB2	4:OK:74:VAL:HG21	1.60	0.83
4:PA:49:PHE:HB2	4:PA:53:PHE:HB2	1.61	0.83
3:PH:135:LEU:HD21	3:PH:151:LEU:HD11	1.59	0.83
4:UG:152:LEU:HG	4:UG:156:ARG:HH22	1.42	0.83
4:UK:49:PHE:HB2	4:UK:53:PHE:HB2	1.60	0.83
3:CH:271:ALA:HA	3:CH:293:MET:HE1	1.60	0.83
4:GG:104:ALA:HB1	4:GG:413:MET:HE3	1.60	0.83
4:HG:338:LYS:HZ2	4:HG:340:THR:H	1.25	0.83
3:KH:3:GLU:HG2	3:KH:130:LEU:HD23	1.61	0.83
4:VE:49:PHE:HB2	4:VE:53:PHE:HB2	1.59	0.83
35:XK:93:LEU:HD23	35:XK:129:VAL:HG11	1.58	0.83
37:YQ:9:ARG:NH1	37:YQ:9:ARG:O	2.10	0.83
37:YQ:41:ARG:HH12	37:YQ:45:SER:H	1.27	0.83
4:AI:358:GLN:NE2	4:AI:359:PRO:O	2.11	0.82
7:C8:319:ALA:HA	7:C8:322:ARG:HD3	1.61	0.82
3:LF:357:PRO:HB3	3:LF:362:LYS:HA	1.59	0.82
4:RC:101:ASN:HA	4:RC:144:GLY:HA2	1.58	0.82
3:SL:245:GLN:OE1	4:SM:15:GLN:NE2	2.12	0.82
4:CI:213:CYS:HB3	4:CI:219:ILE:HB	1.61	0.82
3:WF:385:PHE:HA	3:WF:388:MET:HE2	1.61	0.82
4:FA:49:PHE:HB2	4:FA:53:PHE:HB2	1.60	0.82
4:GG:25:CYS:HB2	4:GG:30:ILE:HB	1.62	0.82
4:MG:49:PHE:HB2	4:MG:53:PHE:HB2	1.60	0.82
3:WD:278:SER:HA	3:WD:281:TYR:HB2	1.62	0.82
3:WL:182:PRO:HB2	3:WL:388:MET:HE1	1.62	0.82
4:AI:9:VAL:HG11	4:AI:150:ALA:HB2	1.60	0.82
6:D:205:THR:HG22	11:Fi:164:LEU:HD22	1.59	0.82
4:EG:40:LYS:H	13:G2:421:ARG:HH12	1.25	0.82
11:Fb:368:ILE:HD13	11:Fb:448:LYS:HE2	1.60	0.82
13:G1:474:LYS:HB3	13:G1:477:SER:HB2	1.62	0.82
19:J1:179:TYR:O	19:J1:183:ALA:N	2.13	0.82
4:JG:101:ASN:HA	4:JG:144:GLY:HA2	1.59	0.82
4:PI:105:ARG:HH12	4:PI:110:ILE:HG12	1.44	0.82
4:RG:49:PHE:HB2	4:RG:53:PHE:HB2	1.62	0.82
4:RI:49:PHE:HB2	4:RI:53:PHE:HB2	1.61	0.82
35:XH:172:PRO:O	35:XH:175:ARG:NH1	2.12	0.82
36:Z:316:MET:SD	36:Z:319:ARG:NH1	2.52	0.82
4:EE:203:MET:HE1	4:EE:267:PHE:HB3	1.60	0.82
4:GK:419:SER:HA	4:GK:422:ARG:HE	1.45	0.82
4:MC:49:PHE:HB2	4:MC:53:PHE:HB2	1.60	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WI:101:ASN:HA	4:WI:144:GLY:HA2	1.59	0.82
5:B2:75:LYS:HA	5:B2:179:LYS:HE3	1.60	0.82
4:BC:101:ASN:HA	4:BC:144:GLY:HA2	1.59	0.82
7:C8:271:CYS:O	7:C9:399:ARG:NH1	2.13	0.82
4:IA:12:ALA:HB2	39:IA:501:GTP:H5"	1.60	0.82
26:N2:99:ILE:HG13	26:N2:100:GLU:H	1.42	0.82
3:QJ:311:LEU:HD13	3:QJ:342:VAL:HG21	1.59	0.82
1:A:54:GLN:HB2	1:A:58:ARG:HH12	1.45	0.82
4:AM:244:PHE:HB2	4:AM:356:ASN:HD21	1.44	0.82
3:FD:215:LEU:O	3:FD:276:ARG:NH1	2.12	0.82
3:KF:8:GLN:NE2	3:KF:13:GLY:O	2.11	0.82
4:QE:101:ASN:HA	4:QE:144:GLY:HA2	1.59	0.82
4:TM:316:CYS:HB3	4:TM:378:LEU:HB3	1.59	0.82
4:VA:49:PHE:HB2	4:VA:53:PHE:HB2	1.62	0.82
3:VB:309:ARG:HE	3:VB:426:GLN:HE21	1.26	0.82
3:VH:213:ARG:O	3:VH:216:LYS:NZ	2.12	0.82
4:WK:49:PHE:HB2	4:WK:53:PHE:HB2	1.58	0.82
4:CI:88:HIS:HB3	4:CI:91:GLN:HB2	1.61	0.82
4:CK:9:VAL:HG11	4:CK:150:ALA:HB2	1.59	0.82
3:DB:246:LEU:HB2	3:DB:352:ALA:HB1	1.62	0.82
11:Fm:136:GLU:HB3	11:Fm:140:ARG:HH12	1.43	0.82
3:GB:246:LEU:HB2	3:GB:352:ALA:HB1	1.61	0.82
3:GF:357:PRO:HB3	3:GF:362:LYS:HA	1.61	0.82
3:IL:309:ARG:HE	3:IL:426:GLN:HE21	1.24	0.82
3:PF:182:PRO:HB2	3:PF:388:MET:HE1	1.61	0.82
4:PM:104:ALA:HB1	4:PM:413:MET:HE3	1.62	0.82
4:QE:84:ARG:HH22	37:YF:124:HIS:HA	1.42	0.82
5:B3:319:GLU:HG2	5:B4:202:LYS:HE3	1.60	0.82
4:CG:70:LEU:HD13	4:CG:95:GLY:HA3	1.61	0.82
13:G2:438:PHE:HE2	13:G2:451:ILE:HB	1.44	0.82
18:J:106:ARG:NH2	18:J:138:PRO:O	2.13	0.82
3:NH:215:LEU:O	3:NH:276:ARG:NH1	2.13	0.82
4:AM:338:LYS:HZ2	4:AM:340:THR:H	1.28	0.82
4:CE:358:GLN:NE2	4:CE:359:PRO:O	2.12	0.82
4:EK:2:ARG:HA	4:EK:133:GLN:HE22	1.41	0.82
22:L3:145:TYR:HH	4:MK:393:HIS:HE2	1.12	0.82
3:TL:262:ARG:HD2	3:TL:421:GLU:HG3	1.62	0.82
4:TM:101:ASN:HA	4:TM:144:GLY:HA2	1.61	0.82
4:UG:101:ASN:HA	4:UG:144:GLY:HA2	1.61	0.82
2:A4:97:ARG:HD3	10:E4:76:TRP:HZ2	1.44	0.81
8:D4:75:GLU:HA	8:D4:78:ARG:HE	1.42	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MI:203:MET:HE1	4:MI:267:PHE:HB3	1.60	0.81
4:NA:419:SER:HA	4:NA:422:ARG:HE	1.44	0.81
5:B8:45:LEU:O	19:J1:97:ARG:NH2	2.13	0.81
3:CD:247:ASN:HB3	3:CD:252:LYS:HG2	1.60	0.81
3:CH:322:SER:OG	3:CH:324:LYS:NZ	2.13	0.81
3:ED:289:LEU:HD21	3:ED:363:MET:HB3	1.62	0.81
11:Fm:454:GLU:OE1	11:Fm:458:LYS:NZ	2.11	0.81
12:G:265:GLN:HA	12:G:268:ARG:HG3	1.61	0.81
14:G4:30:ASN:HD21	14:G4:32:VAL:HG22	1.45	0.81
4:II:224:TYR:HA	4:II:227:LEU:HB2	1.62	0.81
4:IK:25:CYS:HB2	4:IK:30:ILE:HB	1.62	0.81
3:JD:309:ARG:HE	3:JD:426:GLN:HE21	1.25	0.81
3:LF:426:GLN:O	24:M2:67:ARG:NH2	2.13	0.81
3:PB:135:LEU:HD21	3:PB:151:LEU:HD11	1.61	0.81
4:RI:101:ASN:HA	4:RI:144:GLY:HA2	1.61	0.81
4:SE:101:ASN:HA	4:SE:144:GLY:HA2	1.62	0.81
4:TK:208:ALA:H	4:TK:304:LYS:HZ1	1.28	0.81
3:TL:15:GLN:NE2	39:TL:501:GTP:C2	2.42	0.81
4:WG:49:PHE:HB2	4:WG:53:PHE:HB2	1.62	0.81
2:A3:297:MET:HE3	7:C4:183:ARG:HD2	1.61	0.81
4:BI:419:SER:HA	4:BI:422:ARG:HE	1.42	0.81
7:Ca:218:GLU:OE1	7:Ca:342:LYS:NZ	2.13	0.81
8:D2:221:VAL:HG11	8:D3:367:GLU:HG2	1.61	0.81
4:DK:301:GLN:NE2	4:DK:302:MET:SD	2.53	0.81
11:F6:137:GLY:HA2	11:F6:140:ARG:HE	1.45	0.81
13:G1:438:PHE:HE2	13:G1:451:ILE:HB	1.42	0.81
15:H4:302:ASN:O	15:H4:306:ARG:N	2.11	0.81
4:HA:101:ASN:HA	4:HA:144:GLY:HA2	1.61	0.81
4:HE:244:PHE:HB2	4:HE:356:ASN:HD21	1.43	0.81
4:IM:30:ILE:HA	4:IM:36:MET:HE1	1.61	0.81
3:KJ:309:ARG:HE	3:KJ:426:GLN:HE21	1.25	0.81
22:L3:86:PRO:O	4:LI:264:ARG:NH1	2.13	0.81
4:NE:30:ILE:HA	4:NE:36:MET:HE1	1.63	0.81
3:OL:419:VAL:O	3:OL:423:GLN:NE2	2.12	0.81
4:SE:9:VAL:HG11	4:SE:150:ALA:HB2	1.62	0.81
4:WG:419:SER:HA	4:WG:422:ARG:HE	1.45	0.81
4:IM:54:SER:HB2	4:IM:62:VAL:HB	1.62	0.81
3:PH:412:GLU:HA	3:PH:415:MET:HG3	1.60	0.81
4:WI:49:PHE:HB2	4:WI:53:PHE:HB2	1.61	0.81
6:C:219:GLY:H	11:Ff:421:PHE:HZ	1.27	0.81
7:C3:242:ALA:O	11:Fl:235:ARG:NH2	2.14	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C7:319:ALA:HA	7:C7:322:ARG:HD3	1.62	0.81
11:F7:209:ASP:HB2	11:F7:346:ARG:HH21	1.44	0.81
3:FF:143:THR:HG22	3:FF:147:MET:HE2	1.63	0.81
3:GF:5:VAL:HG23	3:GF:130:LEU:HD11	1.62	0.81
3:MB:293:MET:HE3	3:MB:365:ALA:HB3	1.60	0.81
4:NE:419:SER:HA	4:NE:422:ARG:HE	1.45	0.81
4:QG:245:ASP:OD1	4:QG:246:GLY:N	2.13	0.81
7:C4:125:SER:O	7:C4:129:GLN:NE2	2.13	0.81
3:FD:131:GLN:HB3	3:FD:163:ILE:HD12	1.61	0.81
4:MM:419:SER:HA	4:MM:422:ARG:HE	1.46	0.81
4:RG:104:ALA:HB1	4:RG:413:MET:HE3	1.62	0.81
4:SK:101:ASN:HA	4:SK:144:GLY:HA2	1.63	0.81
3:VF:12:CYS:HA	3:VF:15:GLN:HE22	1.44	0.81
3:AD:246:LEU:HB2	3:AD:352:ALA:HB1	1.63	0.81
4:AK:244:PHE:HB2	4:AK:356:ASN:HD21	1.45	0.81
7:C2:284:PHE:O	7:C3:397:GLN:NE2	2.14	0.81
4:IC:278:ALA:O	4:IC:370:LYS:NZ	2.14	0.81
3:IJ:246:LEU:HB2	3:IJ:352:ALA:HB1	1.61	0.81
4:IM:25:CYS:HB2	4:IM:30:ILE:HB	1.63	0.81
21:K2:34:LEU:HB3	21:K2:38:ARG:HH12	1.44	0.81
4:MG:25:CYS:HB2	4:MG:30:ILE:HB	1.63	0.81
4:QK:229:ARG:HE	4:QK:368:LEU:HD22	1.46	0.81
3:RL:271:ALA:HA	3:RL:293:MET:HE1	1.62	0.81
35:XI:172:PRO:O	35:XI:175:ARG:NH1	2.14	0.81
2:A3:129:HIS:HB3	2:A4:10:ARG:HE	1.44	0.81
9:F:318:ARG:HH21	3:HJ:48:ASN:HD22	1.28	0.81
11:F3:426:THR:HG22	11:F4:127:LYS:HE2	1.62	0.81
3:FH:46:ARG:HH12	4:FI:73:THR:HG23	1.45	0.81
3:GL:99:ASN:HB2	3:GL:142:GLY:HA3	1.63	0.81
4:HC:49:PHE:HB2	4:HC:53:PHE:HB2	1.60	0.81
3:HD:149:THR:O	3:HD:191:GLN:NE2	2.14	0.81
16:I:96:MET:HE3	4:JC:82:THR:HB	1.63	0.81
20:K:123:MET:HE3	20:K:125:ARG:HB3	1.63	0.81
3:SB:419:VAL:O	3:SB:423:GLN:NE2	2.14	0.81
4:TE:49:PHE:HB2	4:TE:53:PHE:HB2	1.60	0.81
4:TG:101:ASN:HA	4:TG:144:GLY:HA2	1.60	0.81
4:EI:70:LEU:HD13	4:EI:95:GLY:HA3	1.62	0.81
3:EL:211:CYS:HA	3:EL:215:LEU:HB2	1.59	0.81
4:FA:419:SER:HA	4:FA:422:ARG:HE	1.46	0.81
15:H1:281:LEU:HD23	15:H1:282:ILE:H	1.44	0.81
15:H6:311:GLU:HA	15:H6:315:ARG:HG3	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HB:247:ASN:HB3	3:HB:252:LYS:HG2	1.61	0.81
4:SC:317:MET:HE1	4:SC:351:PHE:HB2	1.62	0.81
4:VC:49:PHE:HB2	4:VC:53:PHE:HB2	1.62	0.81
5:B3:129:VAL:H	5:B4:11:ARG:HH21	1.29	0.81
4:BE:88:HIS:CE1	4:BE:121:ARG:HH22	1.98	0.81
4:FI:204:VAL:HG23	4:FI:302:MET:HG3	1.63	0.81
4:JG:208:ALA:H	4:JG:304:LYS:HZ1	1.27	0.81
4:KK:101:ASN:HA	4:KK:144:GLY:HA2	1.62	0.81
3:QB:271:ALA:HA	3:QB:293:MET:HE1	1.60	0.81
7:C1:293:THR:HG22	7:C1:295:SER:H	1.45	0.80
4:EE:9:VAL:HG11	4:EE:150:ALA:HB2	1.63	0.80
13:G1:423:LEU:HB3	13:G1:506:LEU:HB2	1.61	0.80
4:HC:427:ALA:HA	4:HC:430:LYS:HE2	1.62	0.80
4:IM:220:GLU:HG2	4:IM:221:ARG:HG2	1.62	0.80
4:KA:25:CYS:HB2	4:KA:30:ILE:HB	1.62	0.80
4:PI:49:PHE:HB2	4:PI:53:PHE:HB2	1.62	0.80
30:Q2:1414:LEU:C	30:Q2:1416:ARG:H	1.85	0.80
3:QB:273:LEU:H	3:QB:292:GLN:HE22	1.27	0.80
3:UF:385:PHE:HA	3:UF:388:MET:HE2	1.63	0.80
4:BI:101:ASN:HA	4:BI:144:GLY:HA2	1.62	0.80
8:D9:321:HIS:O	8:Da:71:ARG:NH2	2.14	0.80
4:DE:101:ASN:HA	4:DE:144:GLY:HA2	1.63	0.80
4:LE:25:CYS:HB2	4:LE:30:ILE:HB	1.63	0.80
3:QB:39:ASP:OD1	3:QB:43:GLN:NE2	2.14	0.80
7:C4:163:GLU:HG3	7:C4:167:MET:HE1	1.64	0.80
8:D3:311:LEU:HB3	8:D3:419:LYS:HZ3	1.45	0.80
9:F:277:ARG:NH1	4:II:26:LEU:O	2.15	0.80
4:FG:49:PHE:HB2	4:FG:53:PHE:HB2	1.62	0.80
4:FI:419:SER:HA	4:FI:422:ARG:HE	1.47	0.80
4:IG:25:CYS:HB2	4:IG:30:ILE:HB	1.60	0.80
4:IK:49:PHE:HB2	4:IK:53:PHE:HB2	1.62	0.80
22:L2:222:PRO:HA	22:L2:225:ILE:HG12	1.62	0.80
22:L3:202:LYS:HG3	33:W:118:VAL:HG11	1.63	0.80
24:M1:55:ARG:NH1	24:M1:89:PHE:O	2.14	0.80
3:MB:135:LEU:HD21	3:MB:151:LEU:HD11	1.63	0.80
4:MC:25:CYS:HB2	4:MC:30:ILE:HB	1.64	0.80
4:VK:49:PHE:HB2	4:VK:53:PHE:HB2	1.62	0.80
35:XJ:167:GLY:H	35:XJ:219:TYR:HE1	1.26	0.80
5:B3:75:LYS:HA	5:B3:179:LYS:HE3	1.63	0.80
3:CD:132:GLY:HA2	3:CD:162:ARG:HB3	1.63	0.80
11:F7:260:ALA:HA	11:F8:402:ARG:HH12	1.46	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FL:58:LYS:NZ	3:GL:280:GLN:O	2.15	0.80
4:II:101:ASN:HA	4:II:144:GLY:HA2	1.64	0.80
21:K3:265:VAL:HG22	21:K3:271:PRO:HB3	1.63	0.80
3:LD:324:LYS:HE3	4:LE:221:ARG:HA	1.63	0.80
3:UF:419:VAL:O	3:UF:423:GLN:NE2	2.13	0.80
4:WA:49:PHE:HB2	4:WA:53:PHE:HB2	1.61	0.80
4:WC:101:ASN:HA	4:WC:144:GLY:HA2	1.63	0.80
37:YL:105:SER:HB2	37:YL:108:ASN:HB3	1.63	0.80
6:C:261:CYS:HB3	6:C:329:ILE:HB	1.63	0.80
3:CL:258:VAL:HG23	3:CL:263:LEU:HB2	1.62	0.80
3:DD:286:VAL:HA	3:DD:363:MET:HE1	1.64	0.80
11:F3:363:LYS:HG3	11:F4:110:ARG:HH22	1.46	0.80
14:G5:30:ASN:HD21	14:G5:32:VAL:HG22	1.46	0.80
14:G6:644:TYR:O	14:G6:647:ARG:NH2	2.14	0.80
3:LD:280:GLN:HG3	27:Q:74:LYS:HZ3	1.47	0.80
4:NK:301:GLN:NE2	4:NK:302:MET:SD	2.54	0.80
29:P3:172:GLU:HG2	29:P3:187:LEU:HB2	1.63	0.80
4:AI:402:ARG:HH21	35:XK:233:PRO:HG2	1.46	0.80
4:BE:208:ALA:H	4:BE:304:LYS:HZ1	1.27	0.80
4:FA:226:ASN:ND2	4:FA:367:ASP:OD2	2.14	0.80
13:G1:443:PHE:HB2	13:G1:448:MET:HB2	1.63	0.80
21:K3:15:ARG:HE	21:K3:16:VAL:H	1.29	0.80
3:NB:385:PHE:HA	3:NB:388:MET:HE2	1.63	0.80
3:RL:182:PRO:HB2	3:RL:388:MET:HE1	1.62	0.80
4:WG:25:CYS:HB2	4:WG:30:ILE:HB	1.63	0.80
4:CM:54:SER:HB2	4:CM:62:VAL:HB	1.63	0.80
3:DD:324:LYS:NZ	4:DE:222:PRO:O	2.15	0.80
4:DI:30:ILE:HA	4:DI:36:MET:HE1	1.63	0.80
4:EC:427:ALA:HA	4:EC:430:LYS:HG2	1.62	0.80
14:G6:625:GLU:HA	14:G6:628:LYS:HE2	1.64	0.80
15:H6:213:ILE:HG22	15:H6:214:GLN:HG2	1.63	0.80
3:HB:309:ARG:H	3:HB:372:THR:HG1	1.30	0.80
4:JC:208:ALA:H	4:JC:304:LYS:HZ1	1.30	0.80
4:SK:104:ALA:HB1	4:SK:413:MET:HE3	1.63	0.80
36:Z:313:HIS:HA	36:Z:316:MET:HB2	1.64	0.80
5:B2:75:LYS:HZ1	5:B2:180:MET:HB3	1.47	0.80
7:Cd:289:ARG:HG3	10:E3:13:VAL:HG22	1.62	0.80
6:D:361:ARG:NH1	6:D:373:VAL:O	2.14	0.80
3:EH:278:SER:HA	3:EH:281:TYR:HB2	1.64	0.80
14:G6:13:ARG:HH12	14:G6:17:LYS:HB3	1.46	0.80
3:HF:211:CYS:HA	3:HF:215:LEU:HB2	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:IA:182:VAL:HA	4:IA:185:TYR:HD2	1.47	0.80
3:IJ:143:THR:HG22	3:IJ:147:MET:HE2	1.64	0.80
3:ML:12:CYS:HA	3:ML:15:GLN:HE22	1.47	0.80
3:PF:288:GLU:O	3:PF:292:GLN:NE2	2.15	0.80
3:QF:135:LEU:HD21	3:QF:151:LEU:HD11	1.63	0.80
3:SB:215:LEU:O	3:SB:276:ARG:NH1	2.14	0.80
3:SB:252:LYS:HA	3:SB:255:VAL:HG22	1.64	0.80
4:UE:49:PHE:HB2	4:UE:53:PHE:HB2	1.63	0.80
34:XB:102:ARG:HE	34:XB:153:ARG:HH22	1.28	0.80
4:AI:304:LYS:HB3	26:N3:82:HIS:HA	1.61	0.80
3:EF:324:LYS:NZ	4:EG:222:PRO:O	2.13	0.80
4:HK:388:TRP:HB3	4:HK:425:LEU:HD11	1.64	0.80
21:K2:157:GLN:HB3	21:K2:314:MET:HG3	1.62	0.80
4:KG:271:THR:HA	4:KG:302:MET:HE1	1.64	0.80
4:NG:12:ALA:HB2	39:NG:501:GTP:H5”	1.62	0.80
4:OK:49:PHE:HB2	4:OK:53:PHE:HB2	1.64	0.80
3:QJ:4:ILE:HD11	3:QJ:131:GLN:HB2	1.64	0.80
33:U:516:ASP:HA	33:U:519:LYS:HE3	1.62	0.80
5:B5:12:TYR:HE2	5:B5:17:TRP:HB2	1.45	0.80
9:E:441:THR:HA	9:E:446:ASP:H	1.46	0.80
3:HD:215:LEU:O	3:HD:276:ARG:NH1	2.15	0.80
3:HJ:250:LEU:O	3:HJ:254:ALA:N	2.15	0.80
17:I2:53:ARG:O	17:I2:57:LEU:N	2.15	0.80
4:LC:338:LYS:HZ2	4:LC:340:THR:H	1.28	0.80
28:O1:37:GLY:HA2	30:Q1:1413:SER:HA	1.64	0.80
4:OG:49:PHE:HB2	4:OG:53:PHE:HB2	1.64	0.80
4:RG:203:MET:HE1	4:RG:267:PHE:HB3	1.64	0.80
37:YU:15:TYR:HA	37:YU:18:PHE:HB2	1.62	0.80
4:AE:54:SER:HB2	4:AE:62:VAL:HB	1.63	0.79
3:CH:316:VAL:HG22	3:CH:352:ALA:HB3	1.64	0.79
4:EI:101:ASN:HA	4:EI:144:GLY:HA2	1.64	0.79
9:F:319:TYR:HE2	3:HJ:53:GLU:HB3	1.46	0.79
4:KI:54:SER:HB2	4:KI:62:VAL:HB	1.64	0.79
4:KK:244:PHE:HB2	4:KK:356:ASN:HD21	1.46	0.79
4:LK:49:PHE:HB2	4:LK:53:PHE:HB2	1.61	0.79
30:Q3:1446:LYS:HG2	30:Q3:1483:ILE:HG12	1.63	0.79
4:QE:419:SER:HA	4:QE:422:ARG:HE	1.47	0.79
4:QI:316:CYS:HB3	4:QI:378:LEU:HB3	1.63	0.79
3:UB:46:ARG:HH12	4:UC:73:THR:HG23	1.46	0.79
5:B6:75:LYS:HA	5:B6:179:LYS:HE3	1.64	0.79
4:BG:419:SER:HA	4:BG:422:ARG:HE	1.46	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:E:777:ILE:HA	9:E:780:GLN:HE22	1.46	0.79
13:G1:37:TYR:OH	3:MD:216:LYS:NZ	2.15	0.79
21:K3:271:PRO:HB2	21:K3:276:GLN:HE21	1.47	0.79
4:OE:49:PHE:HB2	4:OE:53:PHE:HB2	1.62	0.79
3:QD:327:ASP:HA	3:QD:330:MET:HE2	1.64	0.79
3:SH:337:ASN:HB3	3:SH:340:TYR:HB2	1.64	0.79
4:SI:49:PHE:HB2	4:SI:53:PHE:HB2	1.64	0.79
32:T:340:MET:HE2	32:T:344:HIS:HE1	1.47	0.79
3:ED:74:ASP:O	13:G1:465:LYS:NZ	2.16	0.79
11:F1:160:LEU:HD13	11:F1:250:LEU:HD11	1.64	0.79
3:FB:322:SER:OG	3:FB:324:LYS:NZ	2.16	0.79
11:Fc:137:GLY:HA2	11:Fc:140:ARG:HE	1.47	0.79
15:H3:311:GLU:HA	15:H3:315:ARG:HG3	1.61	0.79
4:JI:49:PHE:HB2	4:JI:53:PHE:HB2	1.64	0.79
35:XM:172:PRO:O	35:XM:175:ARG:NH1	2.15	0.79
37:YA:130:ALA:HA	37:YA:134:TYR:HB2	1.64	0.79
37:YV:12:GLU:OE1	37:YV:16:LYS:NZ	2.15	0.79
3:AD:247:ASN:HB3	3:AD:252:LYS:HG2	1.63	0.79
3:AF:215:LEU:O	3:AF:276:ARG:NH1	2.15	0.79
4:DI:49:PHE:HB2	4:DI:53:PHE:HB2	1.65	0.79
11:F7:271:ARG:HB3	11:Fi:323:HIS:HD2	1.48	0.79
3:HF:309:ARG:HE	3:HF:426:GLN:HE21	1.27	0.79
3:KH:309:ARG:HE	3:KH:426:GLN:HE21	1.30	0.79
4:LI:338:LYS:HZ2	4:LI:340:THR:H	1.30	0.79
4:OC:49:PHE:HB2	4:OC:53:PHE:HB2	1.65	0.79
4:SI:317:MET:HE1	4:SI:351:PHE:HB2	1.64	0.79
3:TH:271:ALA:HA	3:TH:293:MET:HE1	1.61	0.79
3:CL:11:GLN:O	3:CL:15:GLN:NE2	2.16	0.79
6:D:156:HIS:HB2	6:D:159:HIS:HB2	1.64	0.79
15:H4:216:LYS:HG3	15:H4:237:ARG:HG2	1.64	0.79
4:JE:49:PHE:HB2	4:JE:53:PHE:HB2	1.62	0.79
4:LC:25:CYS:HB2	4:LC:30:ILE:HB	1.65	0.79
27:P:335:ARG:HH12	27:P:338:LEU:HD23	1.48	0.79
3:PD:374:ILE:HA	3:PD:377:LEU:HD13	1.65	0.79
4:QI:101:ASN:HA	4:QI:144:GLY:HA2	1.65	0.79
3:RD:273:LEU:H	3:RD:292:GLN:HE22	1.29	0.79
3:TL:46:ARG:NH1	3:TL:241:ARG:O	2.16	0.79
3:UH:46:ARG:HH12	4:UI:73:THR:HG23	1.45	0.79
3:VJ:215:LEU:O	3:VJ:276:ARG:NH1	2.15	0.79
3:AB:324:LYS:NZ	4:AC:222:PRO:O	2.15	0.79
4:CI:79:ARG:HB3	15:H4:218:ILE:HD12	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GD:58:LYS:NZ	3:HD:280:GLN:OE1	2.15	0.79
4:GE:104:ALA:HB1	4:GE:413:MET:HE3	1.62	0.79
3:GH:216:LYS:O	3:GH:276:ARG:NH2	2.14	0.79
4:HA:419:SER:HA	4:HA:422:ARG:HE	1.46	0.79
3:IF:374:ILE:HA	3:IF:377:LEU:HD13	1.63	0.79
21:K1:405:VAL:HG21	24:M1:60:TRP:HB2	1.63	0.79
3:ML:391:ARG:HH21	28:O3:47:GLY:N	1.77	0.79
3:PL:36:TYR:O	37:YV:64:ARG:NH2	2.15	0.79
3:TL:257:MET:HG3	3:TL:258:VAL:HG23	1.64	0.79
4:UE:346:TRP:O	3:UF:391:ARG:NH2	2.16	0.79
3:VH:215:LEU:O	3:VH:276:ARG:NH1	2.16	0.79
3:ED:278:SER:HA	3:ED:281:TYR:HB2	1.65	0.79
4:FK:49:PHE:HB2	4:FK:53:PHE:HB2	1.63	0.79
4:IA:101:ASN:HA	4:IA:144:GLY:HA2	1.63	0.79
4:IC:295:CYS:HB2	4:IC:377:MET:HE3	1.64	0.79
4:KI:25:CYS:HB2	4:KI:30:ILE:HB	1.64	0.79
3:LH:324:LYS:NZ	4:LI:222:PRO:O	2.15	0.79
4:ME:49:PHE:HB2	4:ME:53:PHE:HB2	1.65	0.79
3:PL:246:LEU:HB2	3:PL:352:ALA:HB1	1.63	0.79
4:QC:101:ASN:HA	4:QC:144:GLY:HA2	1.63	0.79
27:R:313:ARG:HE	27:R:316:LYS:HE2	1.48	0.79
37:YO:12:GLU:OE1	37:YO:16:LYS:NZ	2.15	0.79
4:AM:25:CYS:HB2	4:AM:30:ILE:HB	1.64	0.79
3:BF:99:ASN:HB2	3:BF:142:GLY:HA3	1.65	0.79
7:C2:335:GLU:HG2	7:C2:339:GLN:HE22	1.48	0.79
4:CK:21:TRP:HA	4:CK:24:TYR:HB2	1.63	0.79
3:FB:262:ARG:HD2	3:FB:421:GLU:HG3	1.65	0.79
3:VB:182:PRO:HB2	3:VB:388:MET:HE1	1.64	0.79
4:WC:208:ALA:H	4:WC:304:LYS:HZ1	1.28	0.79
4:AM:304:LYS:HB3	26:N4:82:HIS:HA	1.64	0.79
7:Cc:433:THR:HB	7:Cc:437:ARG:HH12	1.48	0.79
3:FB:46:ARG:HH22	4:FC:73:THR:HA	1.47	0.79
3:FJ:12:CYS:HA	3:FJ:15:GLN:HE22	1.46	0.79
13:G2:194:LEU:HD12	13:G2:199:ILE:HD12	1.63	0.79
3:IH:73:MET:HE1	3:IH:92:PHE:HB3	1.63	0.79
4:ME:220:GLU:HG2	4:ME:221:ARG:HG2	1.65	0.79
28:O2:37:GLY:HA2	30:Q2:1413:SER:HA	1.65	0.79
4:TG:282:TYR:HB2	36:Z:430:ILE:HG21	1.65	0.79
3:TJ:60:VAL:HG23	3:TJ:86:ARG:HH11	1.48	0.79
4:AC:25:CYS:HB2	4:AC:30:ILE:HB	1.65	0.79
1:B:389:ILE:HA	1:B:392:MET:HE3	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BB:262:ARG:HD2	3:BB:421:GLU:HG3	1.65	0.79
7:C7:163:GLU:HG3	7:C7:167:MET:HE1	1.65	0.79
4:CK:317:MET:HE1	4:CK:351:PHE:HB2	1.64	0.79
8:D9:325:THR:OG1	8:Da:71:ARG:NH2	2.15	0.79
3:DF:322:SER:OG	3:DF:324:LYS:NZ	2.16	0.79
3:EF:376:GLU:HA	3:EF:379:LYS:HE3	1.65	0.79
14:G5:486:VAL:HG13	14:G5:502:ILE:HD13	1.63	0.79
3:HB:329:GLN:NE2	3:HB:330:MET:SD	2.56	0.79
4:HE:68:VAL:HA	4:HE:93:ILE:HB	1.63	0.79
19:J3:179:TYR:O	19:J3:183:ALA:N	2.16	0.79
4:KI:226:ASN:ND2	4:KI:367:ASP:OD2	2.16	0.79
22:L1:186:LYS:NZ	22:L1:252:ILE:O	2.16	0.79
4:SI:104:ALA:HB1	4:SI:413:MET:HE3	1.65	0.79
3:UB:271:ALA:HA	3:UB:293:MET:HE1	1.63	0.79
5:B4:106:LYS:HZ3	5:B4:148:LYS:HA	1.46	0.78
3:BJ:309:ARG:HE	3:BJ:426:GLN:HE21	1.31	0.78
4:DG:25:CYS:HB2	4:DG:30:ILE:HB	1.66	0.78
3:EH:322:SER:OG	3:EH:324:LYS:NZ	2.17	0.78
13:G1:99:PHE:HB2	13:G1:122:ILE:HB	1.65	0.78
3:GD:46:ARG:HH12	4:GE:73:THR:HG23	1.48	0.78
3:GH:156:ARG:HH11	3:GH:195:ASN:HD22	1.29	0.78
3:IF:309:ARG:HE	3:IF:426:GLN:HE21	1.29	0.78
4:JG:220:GLU:HG2	4:JG:221:ARG:HG2	1.64	0.78
4:LC:203:MET:HE1	4:LC:267:PHE:HB3	1.65	0.78
26:N2:160:LYS:HA	26:N2:166:PHE:HD1	1.48	0.78
29:P3:173:MET:HE1	29:P3:186:GLU:HG2	1.65	0.78
4:QI:49:PHE:HB2	4:QI:53:PHE:HB2	1.64	0.78
3:SD:286:VAL:HG21	3:SD:325:GLU:HG3	1.64	0.78
4:SG:301:GLN:NE2	4:SG:302:MET:SD	2.56	0.78
4:UE:264:ARG:HH21	4:UE:431:ASP:HB3	1.48	0.78
3:UF:296:ALA:HA	3:UF:299:MET:HE3	1.65	0.78
5:B3:234:LYS:NZ	5:B3:238:GLU:OE2	2.16	0.78
4:BE:338:LYS:HZ2	4:BE:340:THR:H	1.31	0.78
3:CF:5:VAL:HG23	3:CF:130:LEU:HD11	1.64	0.78
8:D9:170:ASP:HA	8:Da:53:ARG:HH21	1.47	0.78
4:EC:301:GLN:HG3	4:EC:303:VAL:H	1.48	0.78
11:Fa:388:PRO:HA	11:Fa:391:MET:SD	2.22	0.78
11:Fc:213:LYS:HB2	11:Fc:217:ARG:HH21	1.47	0.78
3:GH:309:ARG:HE	3:GH:426:GLN:HE21	1.31	0.78
4:HC:203:MET:HE1	4:HC:267:PHE:HB3	1.65	0.78
3:ID:39:ASP:OD1	3:ID:43:GLN:NE2	2.16	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:IK:427:ALA:HA	4:IK:430:LYS:HE2	1.66	0.78
18:J:47:THR:HG23	3:JF:359:ARG:HH22	1.45	0.78
4:JC:25:CYS:HB2	4:JC:30:ILE:HB	1.64	0.78
22:L1:145:TYR:HH	4:MC:393:HIS:HE2	1.25	0.78
3:LF:46:ARG:HH22	4:LG:73:THR:HA	1.47	0.78
39:LJ:501:GTP:O3'	39:LJ:501:GTP:O3G	2.01	0.78
29:P2:172:GLU:HG2	29:P2:187:LEU:HB2	1.62	0.78
3:RD:178:THR:HB	3:RD:181:GLU:HB2	1.66	0.78
3:SH:46:ARG:HH12	4:SI:73:THR:HG23	1.48	0.78
4:AG:101:ASN:HA	4:AG:144:GLY:HA2	1.65	0.78
4:BM:419:SER:HA	4:BM:422:ARG:HE	1.46	0.78
4:CM:264:ARG:HG2	4:CM:265:ILE:HD12	1.64	0.78
4:DA:358:GLN:NE2	4:DA:359:PRO:O	2.16	0.78
4:EE:419:SER:HA	4:EE:422:ARG:HE	1.48	0.78
3:EJ:376:GLU:HA	3:EJ:379:LYS:HE3	1.64	0.78
13:G1:97:LEU:HB2	13:G1:124:TYR:HB3	1.64	0.78
13:G3:147:LYS:NZ	13:G3:149:ILE:O	2.16	0.78
14:G6:285:PRO:HD2	14:G6:347:TRP:HE1	1.49	0.78
4:HC:208:ALA:H	4:HC:304:LYS:HZ1	1.32	0.78
4:IG:220:GLU:HG2	4:IG:221:ARG:HG2	1.66	0.78
4:RE:208:ALA:H	4:RE:304:LYS:HZ1	1.31	0.78
3:TD:4:ILE:HD11	3:TD:131:GLN:HB2	1.62	0.78
3:UH:215:LEU:O	3:UH:276:ARG:NH1	2.16	0.78
4:BG:101:ASN:HA	4:BG:144:GLY:HA2	1.65	0.78
4:CE:203:MET:HE1	4:CE:267:PHE:HB3	1.65	0.78
4:DC:244:PHE:HB2	4:DC:356:ASN:HD21	1.47	0.78
3:EF:276:ARG:HB2	14:G5:405:SER:HB2	1.65	0.78
4:EK:30:ILE:HA	4:EK:36:MET:HE1	1.65	0.78
9:F:412:ARG:O	9:F:412:ARG:NH1	2.16	0.78
11:Fb:129:GLN:HA	11:Fb:132:HIS:CD2	2.18	0.78
13:G2:474:LYS:HB3	13:G2:477:SER:HB2	1.66	0.78
13:G3:99:PHE:HB2	13:G3:122:ILE:HB	1.66	0.78
16:I:181:ARG:NH2	4:KE:27:GLU:O	2.15	0.78
3:MJ:309:ARG:HE	3:MJ:426:GLN:HE21	1.29	0.78
4:NA:49:PHE:HB2	4:NA:53:PHE:HB2	1.62	0.78
29:P1:599:ASN:HB2	29:P1:620:SER:HB3	1.66	0.78
3:SF:12:CYS:HA	3:SF:15:GLN:HE22	1.47	0.78
4:AM:419:SER:HA	4:AM:422:ARG:HE	1.46	0.78
4:IA:304:LYS:NZ	4:IA:386:GLU:OE1	2.17	0.78
4:IG:49:PHE:HB2	4:IG:53:PHE:HB2	1.63	0.78
18:J:113:LEU:HB3	18:J:116:LEU:HG	1.63	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MM:25:CYS:HB2	4:MM:30:ILE:HB	1.65	0.78
27:Q:28:ARG:HA	27:Q:31:ASP:HB2	1.66	0.78
3:TB:273:LEU:H	3:TB:292:GLN:HE22	1.32	0.78
4:TC:210:TYR:HE1	4:TC:227:LEU:HD11	1.46	0.78
4:TG:25:CYS:HB2	4:TG:30:ILE:HB	1.66	0.78
34:XC:47:LEU:HB2	34:XC:162:ILE:HB	1.65	0.78
2:A2:47:GLU:HG3	5:B4:40:GLN:HE22	1.49	0.78
4:AC:30:ILE:HA	4:AC:36:MET:HE1	1.65	0.78
4:AG:54:SER:HB2	4:AG:62:VAL:HB	1.65	0.78
5:B3:368:LYS:HB3	5:B3:372:ARG:HH12	1.48	0.78
3:BJ:11:GLN:OE1	3:BJ:15:GLN:NE2	2.17	0.78
3:CL:322:SER:OG	3:CL:324:LYS:NZ	2.16	0.78
3:FF:211:CYS:HA	3:FF:215:LEU:HB2	1.66	0.78
11:Fa:375:ILE:HD11	11:Fa:441:LEU:HD21	1.65	0.78
21:K3:144:GLN:HB2	21:K3:234:LEU:HD22	1.64	0.78
4:KA:49:PHE:HB2	4:KA:53:PHE:HB2	1.65	0.78
3:KL:131:GLN:HB3	3:KL:163:ILE:HD12	1.65	0.78
22:L2:141:LEU:HD13	4:MG:304:LYS:HG3	1.64	0.78
28:O2:38:TYR:CZ	30:Q2:1418:MET:HG3	2.19	0.78
4:PE:49:PHE:HB2	4:PE:53:PHE:HB2	1.65	0.78
4:SM:216:ASN:HB2	4:SM:276:ILE:HD12	1.64	0.78
3:VH:322:SER:OG	3:VH:324:LYS:NZ	2.17	0.78
4:VK:204:VAL:HG13	4:VK:302:MET:HG3	1.64	0.78
4:WC:49:PHE:HB2	4:WC:53:PHE:HB2	1.65	0.78
3:WJ:246:LEU:HB2	3:WJ:352:ALA:HB1	1.66	0.78
34:XD:1:MET:HG2	34:XD:67:LYS:HE3	1.65	0.78
34:XD:72:LYS:HE2	35:XK:62:ARG:HD2	1.65	0.78
4:DC:208:ALA:H	4:DC:304:LYS:HZ1	1.32	0.78
3:DL:141:GLY:HA3	39:DL:501:GTP:H5”	1.66	0.78
13:G2:99:PHE:HB2	13:G2:122:ILE:HB	1.66	0.78
13:G2:472:VAL:HG11	13:G2:498:VAL:HG23	1.66	0.78
4:GI:54:SER:HB2	4:GI:62:VAL:HB	1.64	0.78
4:GK:49:PHE:HB2	4:GK:53:PHE:HB2	1.66	0.78
3:IF:215:LEU:O	3:IF:276:ARG:NH1	2.17	0.78
4:JA:346:TRP:HE1	3:JB:393:ALA:HB2	1.48	0.78
4:JE:12:ALA:HB1	39:JE:501:GTP:C2	2.19	0.78
4:NI:101:ASN:HA	4:NI:144:GLY:HA2	1.65	0.78
4:OI:65:ALA:O	4:OI:91:GLN:NE2	2.16	0.78
4:PI:9:VAL:HG11	4:PI:150:ALA:HB2	1.66	0.78
4:PK:279:GLU:HB3	37:YS:128:ASP:H	1.48	0.78
4:QM:25:CYS:HB2	4:QM:30:ILE:HB	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:QM:49:PHE:HB2	4:QM:53:PHE:HB2	1.66	0.78
4:RE:172:TYR:N	4:RE:204:VAL:O	2.17	0.78
4:RI:104:ALA:HB1	4:RI:413:MET:HE3	1.65	0.78
3:UH:4:ILE:HD11	3:UH:131:GLN:HB2	1.66	0.78
37:YW:29:LEU:HB3	37:YW:33:ARG:HH12	1.48	0.78
2:A1:317:LEU:HB3	2:A2:204:VAL:HG21	1.66	0.78
39:AB:501:GTP:O3G	39:AB:501:GTP:O3'	2.02	0.78
4:AK:419:SER:HA	4:AK:422:ARG:HE	1.49	0.78
3:CJ:46:ARG:HH22	3:CJ:243:PRO:HD3	1.48	0.78
7:Ca:185:LEU:HD22	7:Ca:233:MET:HE2	1.64	0.78
3:DJ:60:VAL:HG23	3:DJ:86:ARG:HH11	1.48	0.78
4:HA:11:GLN:HB2	4:HA:74:VAL:HG21	1.64	0.78
4:KC:419:SER:HA	4:KC:422:ARG:HE	1.48	0.78
4:KI:419:SER:HA	4:KI:422:ARG:HE	1.48	0.78
3:MD:417:ASP:OD2	30:Q1:1452:ARG:NE	2.17	0.78
30:Q1:1341:ARG:HH22	30:Q1:1445:PRO:HB3	1.46	0.78
4:SG:101:ASN:HA	4:SG:144:GLY:HA2	1.65	0.78
3:TN:60:VAL:HG23	3:TN:86:ARG:HH11	1.49	0.78
4:VC:9:VAL:HG11	4:VC:150:ALA:HB2	1.65	0.78
4:WC:131:GLY:O	35:XI:71:HIS:NE2	2.14	0.78
3:WH:258:VAL:HB	4:WI:407:TRP:HZ2	1.47	0.78
35:XH:199:GLN:N	35:XH:199:GLN:NE2	2.29	0.78
2:A1:323:ARG:CZ	2:A2:184:ILE:HG12	2.14	0.78
5:B1:110:LEU:HD11	5:B1:144:ILE:HG21	1.64	0.78
5:B8:324:ARG:HE	5:B8:329:LEU:HA	1.49	0.78
3:BB:322:SER:OG	3:BB:324:LYS:NZ	2.17	0.78
6:C:308:LYS:O	38:a:70:ARG:NH2	2.16	0.78
4:EG:285:GLN:HE22	4:EG:287:SER:HB3	1.49	0.78
14:G5:644:TYR:O	14:G5:647:ARG:NH2	2.17	0.78
4:LC:220:GLU:HG2	4:LC:221:ARG:HG2	1.66	0.78
4:LE:264:ARG:O	4:LE:266:HIS:ND1	2.16	0.78
3:LL:194:GLU:OE1	3:LL:195:ASN:ND2	2.17	0.78
24:M3:58:MET:HE1	24:M3:61:LYS:HB2	1.65	0.78
29:P2:173:MET:HE1	29:P2:186:GLU:HG3	1.65	0.78
3:RJ:215:LEU:O	3:RJ:276:ARG:NH1	2.16	0.78
4:SK:30:ILE:HA	4:SK:36:MET:HE1	1.66	0.78
4:TI:208:ALA:H	4:TI:304:LYS:HZ1	1.31	0.78
4:UE:101:ASN:HA	4:UE:144:GLY:HA2	1.65	0.78
33:W:238:GLU:OE1	33:W:242:ARG:NH1	2.17	0.78
3:WB:372:THR:HG21	3:WB:426:GLN:HG3	1.66	0.78
4:WC:419:SER:HA	4:WC:422:ARG:HE	1.48	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B2:293:LEU:HG	5:B3:39:ARG:HH12	1.48	0.78
5:B9:311:LEU:HD12	5:B9:345:LEU:HD22	1.65	0.78
4:BE:30:ILE:HA	4:BE:36:MET:HE1	1.64	0.78
6:C:361:ARG:NH1	6:C:373:VAL:O	2.17	0.78
4:EC:358:GLN:NE2	4:EC:359:PRO:O	2.17	0.78
11:F6:368:ILE:HG22	11:F6:444:LEU:HD13	1.66	0.78
14:G4:646:ASP:HB2	14:G4:649:LYS:HG3	1.65	0.78
14:G6:486:VAL:HG13	14:G6:502:ILE:HD13	1.64	0.78
3:HB:8:GLN:NE2	3:HB:14:ASN:OD1	2.17	0.78
4:IM:12:ALA:HB2	39:IM:501:GTP:H5"	1.66	0.78
3:PB:4:ILE:HD11	3:PB:131:GLN:HB2	1.66	0.78
3:PD:100:ASN:HB3	3:PD:103:LYS:HB2	1.66	0.78
3:RF:322:SER:OG	3:RF:324:LYS:NZ	2.17	0.78
3:VH:309:ARG:HE	3:VH:426:GLN:HE21	1.30	0.78
4:WE:49:PHE:HB2	4:WE:53:PHE:HB2	1.66	0.78
6:C:142:LEU:HD12	6:C:180:MET:HE1	1.66	0.77
8:D4:238:VAL:HG22	8:D5:351:ARG:HG2	1.65	0.77
4:DE:138:PHE:HE1	4:DE:169:PHE:HD2	1.32	0.77
11:Fe:304:ILE:HG22	11:Fe:308:GLN:HE21	1.48	0.77
4:GC:271:THR:HA	4:GC:302:MET:HE1	1.66	0.77
3:GD:101:TRP:HB2	3:GD:184:ASN:HD22	1.48	0.77
4:II:285:GLN:HE22	4:II:287:SER:HB3	1.49	0.77
22:L2:128:LYS:HE2	4:MG:214:ARG:HG2	1.65	0.77
4:OA:49:PHE:HB2	4:OA:53:PHE:HB2	1.64	0.77
3:TH:323:MET:SD	3:TH:324:LYS:NZ	2.56	0.77
37:YT:61:THR:HG22	37:YT:64:ARG:HH21	1.48	0.77
3:AD:273:LEU:H	3:AD:292:GLN:HE22	1.31	0.77
4:CK:207:GLU:HB2	4:CK:304:LYS:HZ1	1.47	0.77
7:Cc:218:GLU:HB3	7:Cc:343:VAL:HG22	1.64	0.77
11:Fh:385:LYS:HD2	11:Fh:423:ILE:HB	1.66	0.77
13:G2:420:LEU:HB2	13:G2:442:TYR:HB3	1.65	0.77
23:M:114:LYS:O	23:M:118:GLN:NE2	2.18	0.77
27:P:286:PHE:HA	27:P:289:LYS:HD3	1.66	0.77
3:PF:46:ARG:HH12	4:PG:73:THR:HG23	1.48	0.77
3:QD:385:PHE:HA	3:QD:388:MET:HE2	1.65	0.77
4:TC:104:ALA:HB1	4:TC:413:MET:HE3	1.65	0.77
4:WG:30:ILE:HA	4:WG:36:MET:HE1	1.66	0.77
3:BD:48:ASN:O	3:BD:62:ARG:NH2	2.17	0.77
4:BK:271:THR:HA	4:BK:302:MET:HE1	1.66	0.77
3:CB:103:LYS:HG2	3:CB:108:GLU:HG2	1.65	0.77
4:DI:89:PRO:HD2	4:EI:280:LYS:HZ3	1.49	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:F:346:ARG:HG2	4:IK:286:LEU:HD21	1.66	0.77
4:GE:9:VAL:HG11	4:GE:150:ALA:HB2	1.67	0.77
3:GJ:227:HIS:CE1	25:N:36:VAL:HG12	2.18	0.77
15:H6:290:PRO:O	15:H6:315:ARG:NH1	2.17	0.77
4:IE:204:VAL:HG23	4:IE:302:MET:HG3	1.67	0.77
3:JD:214:THR:O	3:JD:276:ARG:NH1	2.18	0.77
3:JH:309:ARG:HE	3:JH:426:GLN:HE21	1.31	0.77
4:MC:30:ILE:HA	4:MC:36:MET:HE1	1.64	0.77
3:PL:309:ARG:NH1	3:PL:343:GLU:OE2	2.17	0.77
3:TH:46:ARG:HH22	3:TH:243:PRO:HD3	1.48	0.77
3:TL:15:GLN:HA	39:TL:501:GTP:HN22	1.49	0.77
33:U:401:GLU:HG3	33:U:404:ARG:HH21	1.48	0.77
3:UB:376:GLU:HA	3:UB:379:LYS:HE3	1.67	0.77
4:UC:400:ALA:O	4:UC:402:ARG:NH1	2.17	0.77
4:UK:101:ASN:HA	4:UK:144:GLY:HA2	1.65	0.77
3:VD:11:GLN:O	3:VD:15:GLN:NE2	2.17	0.77
4:WE:30:ILE:HA	4:WE:36:MET:HE1	1.66	0.77
3:AB:322:SER:OG	3:AB:324:LYS:NZ	2.18	0.77
3:AH:46:ARG:HH12	4:AI:73:THR:HG23	1.50	0.77
5:B7:321:ARG:NH2	5:B7:332:ASP:OD1	2.17	0.77
3:BB:309:ARG:HE	3:BB:426:GLN:HE21	1.29	0.77
6:C:63:ARG:NH1	6:C:64:THR:O	2.18	0.77
3:CF:278:SER:HA	3:CF:281:TYR:HB2	1.66	0.77
8:D3:402:LEU:HA	8:D3:405:LEU:HD12	1.67	0.77
4:DI:419:SER:HA	4:DI:422:ARG:HE	1.48	0.77
9:F:344:GLY:HA2	4:IK:370:LYS:HD2	1.67	0.77
3:FL:262:ARG:HD2	3:FL:421:GLU:HG3	1.66	0.77
13:G3:97:LEU:HB2	13:G3:124:TYR:HB3	1.67	0.77
13:G3:423:LEU:HB3	13:G3:506:LEU:HB2	1.64	0.77
13:G3:477:SER:OG	13:G3:481:ASN:O	2.01	0.77
4:LC:49:PHE:HB2	4:LC:53:PHE:HB2	1.66	0.77
4:NE:49:PHE:HB2	4:NE:53:PHE:HB2	1.65	0.77
4:UE:395:PHE:HA	4:UE:398:MET:HE2	1.66	0.77
4:WE:104:ALA:HB1	4:WE:413:MET:HE3	1.65	0.77
3:WF:278:SER:HA	3:WF:281:TYR:HB2	1.66	0.77
35:XJ:172:PRO:O	35:XJ:175:ARG:NH1	2.16	0.77
2:A3:367:ARG:HD2	2:A3:367:ARG:N	1.98	0.77
4:AI:220:GLU:HG2	4:AI:221:ARG:HG2	1.66	0.77
3:BL:143:THR:HG22	3:BL:147:MET:HE2	1.66	0.77
4:CC:338:LYS:HZ2	4:CC:340:THR:H	1.33	0.77
8:D2:78:ARG:HD3	8:D3:335:GLN:HE22	1.49	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DH:211:CYS:HA	3:DH:215:LEU:HB2	1.65	0.77
4:FC:316:CYS:HB3	4:FC:378:LEU:HB3	1.67	0.77
3:IF:278:SER:HA	3:IF:281:TYR:HB2	1.67	0.77
3:KD:46:ARG:HH22	4:KE:73:THR:HA	1.49	0.77
3:KD:278:SER:HA	3:KD:281:TYR:HB2	1.67	0.77
22:L1:244:ILE:HA	22:L1:250:ILE:HD11	1.65	0.77
4:LA:358:GLN:NE2	4:LA:359:PRO:O	2.17	0.77
8:D3:75:GLU:HA	8:D3:78:ARG:HE	1.47	0.77
3:DD:219:THR:OG1	13:G1:281:ARG:NH2	2.17	0.77
12:G:397:ARG:HH11	4:GC:370:LYS:HB2	1.47	0.77
4:GI:9:VAL:HG11	4:GI:150:ALA:HB2	1.67	0.77
4:IK:358:GLN:NE2	4:IK:359:PRO:O	2.16	0.77
21:K2:400:MET:HE1	21:K3:245:VAL:H	1.48	0.77
4:LI:25:CYS:HB2	4:LI:30:ILE:HB	1.67	0.77
3:ML:391:ARG:NH2	28:O3:47:GLY:H	1.77	0.77
3:ND:322:SER:OG	3:ND:324:LYS:NZ	2.17	0.77
3:PB:309:ARG:HE	3:PB:426:GLN:HE21	1.30	0.77
4:QG:49:PHE:HB2	4:QG:53:PHE:HB2	1.66	0.77
4:QK:49:PHE:HB2	4:QK:53:PHE:HB2	1.65	0.77
4:RE:30:ILE:HA	4:RE:36:MET:HE1	1.66	0.77
3:RJ:271:ALA:HA	3:RJ:293:MET:HE1	1.65	0.77
4:TM:104:ALA:HB1	4:TM:413:MET:HE3	1.66	0.77
37:YL:45:SER:OG	37:YL:47:GLU:OE1	2.02	0.77
2:A1:323:ARG:NH1	2:A2:184:ILE:H	1.82	0.77
3:AD:322:SER:OG	3:AD:324:LYS:NZ	2.18	0.77
3:BD:278:SER:HA	3:BD:281:TYR:HB2	1.66	0.77
4:BE:203:MET:HE1	4:BE:267:PHE:HB3	1.66	0.77
7:Cb:412:CYS:HA	7:Cc:295:SER:HB3	1.67	0.77
8:D4:221:VAL:HG11	8:D5:367:GLU:HG2	1.66	0.77
11:Ff:193:GLU:HB2	11:Ff:472:MET:HE1	1.67	0.77
4:GA:9:VAL:HG11	4:GA:150:ALA:HB2	1.67	0.77
4:GC:316:CYS:HB3	4:GC:378:LEU:HB3	1.67	0.77
4:GE:25:CYS:HB2	4:GE:30:ILE:HB	1.65	0.77
4:HA:25:CYS:HB2	4:HA:30:ILE:HB	1.66	0.77
4:HE:25:CYS:HB2	4:HE:30:ILE:HB	1.65	0.77
3:KD:401:GLU:HB3	3:KD:403:MET:HE1	1.66	0.77
29:P1:204:MET:HE1	3:WD:78:SER:HB2	1.65	0.77
3:PH:48:ASN:O	3:PH:62:ARG:NH2	2.17	0.77
4:QK:101:ASN:HA	4:QK:144:GLY:HA2	1.66	0.77
4:WA:30:ILE:HA	4:WA:36:MET:HE1	1.67	0.77
7:C5:405:ARG:NE	7:C5:405:ARG:O	2.17	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Ca:220:LEU:HD21	8:D1:25:LYS:HG3	1.64	0.77
3:EH:252:LYS:HG2	4:EI:100:ALA:HA	1.65	0.77
13:G2:97:LEU:HB2	13:G2:124:TYR:HB3	1.66	0.77
4:HA:15:GLN:OE1	39:HA:501:GTP:N1	2.18	0.77
4:HC:10:GLY:O	4:HC:13:GLY:N	2.17	0.77
3:JL:135:LEU:HD21	3:JL:151:LEU:HD11	1.67	0.77
3:LF:135:LEU:HD21	3:LF:151:LEU:HD11	1.65	0.77
4:LI:229:ARG:HE	4:LI:368:LEU:HD22	1.50	0.77
3:MF:262:ARG:HD2	3:MF:421:GLU:HG3	1.66	0.77
4:NC:388:TRP:HB3	4:NC:425:LEU:HD11	1.67	0.77
4:NC:419:SER:HA	4:NC:422:ARG:HE	1.50	0.77
29:P3:68:SER:HB3	29:P3:84:VAL:HG23	1.66	0.77
3:PB:246:LEU:HB2	3:PB:352:ALA:HB1	1.67	0.77
4:PI:207:GLU:HB2	4:PI:304:LYS:HZ1	1.49	0.77
4:PK:49:PHE:HB2	4:PK:53:PHE:HB2	1.66	0.77
4:BC:89:PRO:HD2	4:CC:280:LYS:HZ3	1.50	0.77
4:BC:338:LYS:HZ2	4:BC:340:THR:H	1.31	0.77
3:DF:278:SER:HA	3:DF:281:TYR:HB2	1.67	0.77
11:F6:175:ARG:NH1	11:F6:179:CYS:SG	2.58	0.77
3:FB:246:LEU:HB2	3:FB:352:ALA:HB1	1.67	0.77
3:FH:218:THR:OG1	13:G2:457:ARG:NH2	2.17	0.77
13:G2:424:ALA:HB3	13:G2:438:PHE:HB3	1.65	0.77
3:HL:412:GLU:O	3:HL:416:ASN:N	2.17	0.77
3:MD:304:ASP:H	28:O1:9:GLN:HG3	1.49	0.77
3:NB:289:LEU:O	3:NB:293:MET:N	2.18	0.77
4:NE:25:CYS:HB2	4:NE:30:ILE:HB	1.67	0.77
4:PI:84:ARG:NH2	37:YM:124:HIS:O	2.18	0.77
4:RE:101:ASN:HA	4:RE:144:GLY:HA2	1.66	0.77
4:SC:12:ALA:HB2	39:SC:501:GTP:H5"	1.66	0.77
3:SD:385:PHE:HA	3:SD:388:MET:HE2	1.65	0.77
4:UI:395:PHE:HA	4:UI:398:MET:HE2	1.65	0.77
3:AB:131:GLN:HB3	3:AB:163:ILE:HD12	1.67	0.77
5:B1:296:ASP:OD1	5:B1:299:ARG:NH2	2.18	0.77
5:B1:303:ASP:OD1	5:B1:306:ARG:NH2	2.18	0.77
4:BM:358:GLN:NE2	4:BM:359:PRO:O	2.17	0.77
4:CE:54:SER:HB2	4:CE:62:VAL:HB	1.67	0.77
8:D7:354:GLN:NE2	8:D8:241:TYR:O	2.17	0.77
9:E:572:ARG:NH2	9:E:629:CYS:SG	2.58	0.77
4:EI:358:GLN:NE2	4:EI:359:PRO:O	2.18	0.77
11:Fj:158:TYR:HD2	12:G:268:ARG:HG2	1.50	0.77
4:HA:338:LYS:HZ2	4:HA:340:THR:H	1.33	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:KC:220:GLU:HG2	4:KC:221:ARG:HG2	1.67	0.77
4:KE:101:ASN:HA	4:KE:144:GLY:HA2	1.67	0.77
39:KH:501:GTP:O3G	39:KH:501:GTP:O3'	2.02	0.77
4:LK:30:ILE:HA	4:LK:36:MET:HE1	1.67	0.77
4:MG:338:LYS:HZ2	4:MG:340:THR:H	1.33	0.77
3:QB:372:THR:HB	3:QB:375:GLN:HE22	1.50	0.77
3:QL:135:LEU:HD21	3:QL:151:LEU:HD11	1.66	0.77
4:RK:9:VAL:HG11	4:RK:150:ALA:HB2	1.67	0.77
4:SG:49:PHE:HB2	4:SG:53:PHE:HB2	1.67	0.77
4:VC:207:GLU:HB2	4:VC:304:LYS:HZ1	1.50	0.77
4:BC:25:CYS:HB2	4:BC:30:ILE:HB	1.67	0.76
3:BL:67:ASP:HB3	3:BL:73:MET:HE2	1.66	0.76
4:CM:219:ILE:HG23	15:H6:33:ASN:HB2	1.66	0.76
6:D:145:MET:HE3	6:D:249:PRO:HG2	1.67	0.76
6:D:340:PHE:HA	6:D:343:PHE:HB2	1.67	0.76
8:D3:78:ARG:NH1	8:D4:335:GLN:OE1	2.18	0.76
11:F2:204:ILE:O	11:F3:90:TYR:OH	2.01	0.76
11:F4:274:SER:O	11:Fi:295:THR:N	2.18	0.76
14:G4:625:GLU:HA	14:G4:628:LYS:HE2	1.67	0.76
3:GF:322:SER:OG	3:GF:324:LYS:NZ	2.18	0.76
4:JG:391:LEU:HA	4:JG:394:LYS:HZ3	1.50	0.76
21:K4:336:LEU:HA	21:K4:339:LYS:HE2	1.65	0.76
4:KG:220:GLU:HG2	4:KG:221:ARG:HG2	1.67	0.76
3:KL:135:LEU:HD21	3:KL:151:LEU:HD11	1.64	0.76
4:NG:419:SER:HA	4:NG:422:ARG:HE	1.49	0.76
3:NJ:4:ILE:HD11	3:NJ:131:GLN:HB2	1.66	0.76
3:QD:66:VAL:HG11	3:QD:147:MET:HE3	1.68	0.76
3:RF:47:ILE:HD12	3:RF:241:ARG:HH12	1.50	0.76
4:VI:271:THR:HA	4:VI:302:MET:HE1	1.65	0.76
3:WD:48:ASN:O	3:WD:62:ARG:NH2	2.18	0.76
4:WE:205:ASP:OD2	4:WE:304:LYS:NZ	2.18	0.76
3:BD:324:LYS:NZ	4:BE:222:PRO:O	2.14	0.76
4:BE:76:ASP:OD1	4:BE:79:ARG:NH2	2.18	0.76
4:CC:358:GLN:NE2	4:CC:359:PRO:O	2.18	0.76
8:D9:431:MET:HA	8:D9:434:ARG:HG2	1.68	0.76
3:GB:48:ASN:O	3:GB:62:ARG:NH2	2.18	0.76
3:GJ:211:CYS:HA	3:GJ:215:LEU:HB2	1.67	0.76
4:HG:358:GLN:NE2	4:HG:359:PRO:O	2.17	0.76
4:KG:12:ALA:HB1	39:KG:501:GTP:C2	2.20	0.76
4:KI:358:GLN:NE2	4:KI:359:PRO:O	2.17	0.76
3:KJ:278:SER:HA	3:KJ:281:TYR:HB2	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MK:339:ARG:HD2	28:O3:25:ALA:HA	1.67	0.76
4:OC:358:GLN:NE2	4:OC:359:PRO:O	2.17	0.76
3:PD:173:PRO:O	3:PD:380:ARG:NH2	2.18	0.76
3:QB:135:LEU:HD21	3:QB:151:LEU:HD11	1.68	0.76
3:QF:385:PHE:HA	3:QF:388:MET:HE2	1.65	0.76
3:RB:46:ARG:HH12	4:RC:73:THR:HG23	1.50	0.76
4:SM:101:ASN:HA	4:SM:144:GLY:HA2	1.67	0.76
3:TD:322:SER:OG	3:TD:324:LYS:NZ	2.17	0.76
4:UK:220:GLU:HG2	4:UK:221:ARG:HG2	1.67	0.76
4:VI:229:ARG:HE	4:VI:368:LEU:HD22	1.50	0.76
4:AC:371:VAL:HG11	4:AC:374:ALA:HB2	1.67	0.76
3:BF:13:GLY:HA2	3:BF:16:ILE:HG22	1.67	0.76
3:CL:217:LEU:HD11	3:CL:220:PRO:HB3	1.67	0.76
11:F3:112:TRP:HE1	11:F3:115:ARG:HH21	1.33	0.76
15:H4:238:ASP:O	15:H4:242:GLN:NE2	2.18	0.76
4:IG:2:ARG:NH2	4:IG:250:VAL:O	2.18	0.76
21:K3:151:LEU:HG	21:K3:227:LEU:HD13	1.68	0.76
4:LA:207:GLU:HB2	4:LA:304:LYS:HZ1	1.50	0.76
3:LB:149:THR:O	3:LB:191:GLN:NE2	2.16	0.76
3:LJ:324:LYS:HE2	4:LK:222:PRO:HD2	1.67	0.76
3:PL:216:LYS:O	3:PL:276:ARG:NH2	2.19	0.76
3:QB:56:GLY:HA2	37:YB:60:SER:H	1.51	0.76
3:SD:216:LYS:O	3:SD:276:ARG:NH2	2.19	0.76
4:UA:216:ASN:HB2	4:UA:276:ILE:HD12	1.66	0.76
4:WK:104:ALA:HB1	4:WK:413:MET:HE3	1.67	0.76
4:AI:224:TYR:HA	4:AI:227:LEU:HB2	1.65	0.76
5:B1:293:LEU:HG	5:B2:39:ARG:HH12	1.51	0.76
5:B4:268:ARG:HG3	5:B4:272:MET:HE1	1.67	0.76
4:EC:9:VAL:HG11	4:EC:150:ALA:HB2	1.66	0.76
4:FG:208:ALA:H	4:FG:304:LYS:HZ1	1.30	0.76
13:G1:424:ALA:HB3	13:G1:438:PHE:HB3	1.67	0.76
13:G3:359:PHE:HD2	13:G3:361:MET:HB2	1.51	0.76
4:HC:30:ILE:HA	4:HC:36:MET:HE1	1.67	0.76
3:ID:12:CYS:HA	39:ID:501:GTP:HN22	1.49	0.76
4:KC:313:MET:HE3	4:KC:380:ASN:HB3	1.67	0.76
4:KI:317:MET:HE1	4:KI:377:MET:HG2	1.67	0.76
4:OC:108:TYR:O	4:OC:112:LYS:NZ	2.18	0.76
3:QB:309:ARG:HE	3:QB:426:GLN:HE21	1.30	0.76
3:RD:309:ARG:HE	3:RD:426:GLN:HE21	1.31	0.76
4:SI:101:ASN:HA	4:SI:144:GLY:HA2	1.67	0.76
4:TE:9:VAL:HG11	4:TE:150:ALA:HB2	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:TK:220:GLU:HG2	4:TK:221:ARG:HG2	1.67	0.76
3:TL:258:VAL:HB	4:TM:407:TRP:HZ2	1.49	0.76
4:VG:101:ASN:HA	4:VG:144:GLY:HA2	1.66	0.76
4:VK:244:PHE:HB2	4:VK:356:ASN:HD21	1.49	0.76
4:WC:338:LYS:HZ2	4:WC:340:THR:H	1.34	0.76
4:WE:25:CYS:HB2	4:WE:30:ILE:HB	1.67	0.76
1:B:465:LYS:HG2	4:GG:40:LYS:HB3	1.66	0.76
5:B1:413:ARG:HH22	8:D5:400:GLN:HB3	1.50	0.76
3:BJ:278:SER:HA	3:BJ:281:TYR:HB2	1.68	0.76
3:DF:60:VAL:HG23	3:DF:86:ARG:HH11	1.49	0.76
11:F7:271:ARG:HB3	11:Fi:323:HIS:CD2	2.19	0.76
4:HI:338:LYS:HZ2	4:HI:340:THR:H	1.34	0.76
3:HJ:263:LEU:HD12	3:HJ:370:ASN:HD21	1.50	0.76
3:ID:8:GLN:NE2	3:ID:13:GLY:O	2.18	0.76
3:JD:132:GLY:HA2	3:JD:162:ARG:HB3	1.66	0.76
21:K4:355:GLY:HA2	21:K4:358:ARG:HE	1.50	0.76
4:KE:338:LYS:HZ2	4:KE:340:THR:H	1.34	0.76
3:LB:309:ARG:HD2	24:M1:64:MET:HE3	1.67	0.76
3:NH:316:VAL:HG22	3:NH:352:ALA:HB3	1.68	0.76
4:OA:419:SER:HA	4:OA:422:ARG:HE	1.49	0.76
4:PE:101:ASN:HA	4:PE:144:GLY:HA2	1.67	0.76
4:PI:349:THR:HG23	3:PJ:179:VAL:HG12	1.66	0.76
4:TI:88:HIS:HB3	4:TI:91:GLN:HB2	1.67	0.76
3:WD:323:MET:SD	3:WD:324:LYS:NZ	2.56	0.76
4:AC:338:LYS:HZ2	4:AC:340:THR:H	1.34	0.76
5:B5:7:LYS:HZ1	8:D9:329:ILE:HB	1.48	0.76
4:BC:144:GLY:N	39:BC:501:GTP:O2B	2.19	0.76
3:BL:44:LEU:HD21	15:H6:25:PRO:HG3	1.66	0.76
4:CK:338:LYS:HZ2	4:CK:340:THR:H	1.34	0.76
3:ED:324:LYS:HE2	4:EE:222:PRO:HD2	1.67	0.76
14:G4:285:PRO:HD2	14:G4:347:TRP:HE1	1.49	0.76
4:GK:216:ASN:HB2	4:GK:276:ILE:HD12	1.67	0.76
3:GL:135:LEU:HD21	3:GL:151:LEU:HD11	1.68	0.76
12:H:459:GLN:O	12:H:463:GLU:N	2.17	0.76
4:IA:102:ASN:HB3	4:IA:105:ARG:HB2	1.67	0.76
3:IH:289:LEU:O	3:IH:293:MET:N	2.18	0.76
4:KA:244:PHE:HB2	4:KA:356:ASN:HD21	1.48	0.76
4:MG:358:GLN:NE2	4:MG:359:PRO:O	2.19	0.76
4:MK:203:MET:HE1	4:MK:267:PHE:HB3	1.67	0.76
4:OK:30:ILE:HA	4:OK:36:MET:HE1	1.68	0.76
4:PM:70:LEU:HD13	4:PM:95:GLY:HA3	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TF:322:SER:OG	3:TF:324:LYS:NZ	2.19	0.76
3:TH:215:LEU:O	3:TH:276:ARG:NH1	2.18	0.76
3:TL:322:SER:OG	3:TL:324:LYS:NZ	2.18	0.76
2:A3:336:ARG:HH22	2:A4:59:VAL:HA	1.48	0.76
5:B4:7:LYS:HD3	8:D3:326:LEU:HD12	1.68	0.76
5:B9:293:LEU:HD22	5:B9:363:LEU:HD13	1.67	0.76
6:C:28:PHE:HB2	6:C:45:LEU:HB2	1.68	0.76
7:C4:403:ARG:HH21	7:C4:417:GLN:HE21	1.32	0.76
6:D:304:TYR:HE2	6:D:317:MET:HG3	1.50	0.76
8:D3:135:LYS:HG2	8:D3:194:ILE:HD11	1.67	0.76
4:EI:285:GLN:HE22	4:EI:287:SER:HB3	1.50	0.76
4:FI:220:GLU:HG2	4:FI:221:ARG:HG2	1.67	0.76
11:Fk:350:GLU:HG3	11:Fk:458:LYS:HZ2	1.51	0.76
15:H1:227:ARG:NH1	15:H1:229:ALA:O	2.15	0.76
4:HE:220:GLU:HG2	4:HE:221:ARG:HG2	1.66	0.76
4:KE:49:PHE:HB2	4:KE:53:PHE:HB2	1.67	0.76
24:M3:54:THR:HA	24:M3:92:TYR:H	1.50	0.76
3:NH:46:ARG:HH12	4:NI:73:THR:HG23	1.50	0.76
28:O1:84:ARG:HH21	28:O1:85:THR:HG23	1.51	0.76
3:OB:152:ILE:HG23	3:OB:164:MET:HE2	1.67	0.76
4:PA:115:VAL:HG11	4:PA:152:LEU:HD22	1.68	0.76
3:PF:35:THR:HB	37:YJ:60:SER:HB2	1.68	0.76
4:QE:49:PHE:HB2	4:QE:53:PHE:HB2	1.68	0.76
3:RD:173:PRO:O	3:RD:380:ARG:NH2	2.18	0.76
4:SC:402:ARG:HE	4:SC:405:VAL:HG11	1.48	0.76
4:TC:25:CYS:HB2	4:TC:30:ILE:HB	1.67	0.76
4:TC:216:ASN:HB2	4:TC:276:ILE:HD12	1.67	0.76
4:WK:419:SER:HA	4:WK:422:ARG:HE	1.49	0.76
4:AI:226:ASN:ND2	4:AI:367:ASP:OD2	2.19	0.76
4:AK:30:ILE:HA	4:AK:36:MET:HE1	1.68	0.76
5:B6:48:GLU:HB3	19:J3:97:ARG:NH2	1.99	0.76
5:B6:400:PRO:HG3	5:B6:403:LYS:HE3	1.68	0.76
4:CG:168:GLU:OE2	4:CG:198:SER:OG	2.04	0.76
4:DI:338:LYS:HZ2	4:DI:340:THR:H	1.33	0.76
3:ED:322:SER:OG	3:ED:324:LYS:NZ	2.19	0.76
11:Fb:301:ASN:O	11:Fb:305:ARG:HG3	1.86	0.76
11:Fh:198:ARG:HE	11:Fh:201:ARG:HH21	1.33	0.76
4:GC:54:SER:HB2	4:GC:62:VAL:HB	1.67	0.76
3:GD:278:SER:HA	3:GD:281:TYR:HB2	1.66	0.76
4:HK:316:CYS:HB3	4:HK:378:LEU:HB3	1.66	0.76
21:K2:336:LEU:HA	21:K2:339:LYS:HE2	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KF:273:LEU:H	3:KF:292:GLN:HE22	1.34	0.76
3:LD:235:GLY:HA3	3:LD:366:THR:HG21	1.67	0.76
3:PD:322:SER:OG	3:PD:324:LYS:NZ	2.19	0.76
4:RK:182:VAL:HA	4:RK:185:TYR:HD2	1.50	0.76
4:SC:273:ALA:HB2	4:SC:295:CYS:HB3	1.68	0.76
4:SG:419:SER:HA	4:SG:422:ARG:HE	1.49	0.76
3:TF:372:THR:HG21	3:TF:426:GLN:HG2	1.68	0.76
4:TG:154:MET:HE3	4:TG:194:THR:HG22	1.67	0.76
4:TG:220:GLU:HG2	4:TG:221:ARG:HG2	1.68	0.76
4:UC:49:PHE:HB2	4:UC:53:PHE:HB2	1.67	0.76
3:UF:278:SER:HA	3:UF:281:TYR:HB2	1.68	0.76
4:VG:208:ALA:H	4:VG:304:LYS:HZ1	1.33	0.76
4:AM:215:ARG:HA	26:N4:89:LYS:HE3	1.67	0.76
6:D:378:LEU:HD11	12:G:97:ARG:HB3	1.66	0.76
8:D2:90:ALA:HB3	13:G1:7:HIS:HD2	1.51	0.76
3:ED:246:LEU:HB2	3:ED:352:ALA:HB1	1.68	0.76
11:F2:356:LYS:O	11:F2:359:THR:OG1	2.03	0.76
14:G4:654:PRO:HA	14:G4:687:GLN:HG2	1.66	0.76
14:G5:13:ARG:HH12	14:G5:17:LYS:HB3	1.51	0.76
4:HK:107:HIS:HA	4:HK:152:LEU:HD23	1.68	0.76
4:LK:229:ARG:HE	4:LK:368:LEU:HD22	1.51	0.76
4:MM:101:ASN:HA	4:MM:144:GLY:HA2	1.67	0.76
3:NL:216:LYS:O	3:NL:276:ARG:NH2	2.19	0.76
3:TL:4:ILE:HD11	3:TL:131:GLN:HB2	1.68	0.76
34:XF:1:MET:HE2	34:XF:69:LEU:HA	1.68	0.76
4:AC:144:GLY:N	39:AC:501:GTP:O2B	2.18	0.76
4:AC:207:GLU:HB2	4:AC:304:LYS:HZ1	1.48	0.76
3:BJ:252:LYS:O	3:BJ:256:ASN:ND2	2.19	0.76
4:BK:203:MET:HE1	4:BK:267:PHE:HB3	1.67	0.76
4:CE:25:CYS:HB2	4:CE:30:ILE:HB	1.68	0.76
3:CJ:309:ARG:HE	3:CJ:426:GLN:HE21	1.31	0.76
4:CK:358:GLN:NE2	4:CK:359:PRO:O	2.19	0.76
8:D4:78:ARG:NH1	8:D5:335:GLN:OE1	2.17	0.76
8:D4:225:ASP:OD1	8:D5:360:ARG:NH1	2.18	0.76
4:DI:220:GLU:HG2	4:DI:221:ARG:HG2	1.68	0.76
11:F6:341:LEU:HD12	11:Fa:341:LEU:HD23	1.68	0.76
14:G6:455:ALA:HB3	14:G6:464:SER:HB2	1.67	0.76
3:GJ:173:PRO:O	3:GJ:380:ARG:NH2	2.19	0.76
3:IH:3:GLU:HG2	3:IH:130:LEU:HD23	1.66	0.76
3:IL:47:ILE:HG13	3:IL:51:TYR:HB2	1.68	0.76
4:KI:338:LYS:HZ2	4:KI:340:THR:H	1.34	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MC:262:TYR:OH	3:MD:391:ARG:O	2.02	0.76
4:MM:285:GLN:HE22	4:MM:287:SER:HB3	1.51	0.76
26:N3:67:PRO:HD2	26:N3:71:LEU:HD23	1.68	0.76
3:NF:324:LYS:NZ	4:NG:222:PRO:O	2.16	0.76
4:NI:49:PHE:HB2	4:NI:53:PHE:HB2	1.67	0.76
4:NI:419:SER:HA	4:NI:422:ARG:HE	1.51	0.76
3:NJ:215:LEU:O	3:NJ:276:ARG:NH1	2.19	0.76
27:Q:99:GLN:HG3	27:Q:103:LYS:HD2	1.67	0.76
4:QC:317:MET:HE1	4:QC:351:PHE:HB2	1.67	0.76
4:SI:30:ILE:HA	4:SI:36:MET:HE1	1.68	0.76
3:UB:330:MET:HE3	3:UB:349:VAL:HG13	1.67	0.76
4:UE:70:LEU:HD13	4:UE:145:THR:HB	1.69	0.76
4:UE:104:ALA:HB1	4:UE:413:MET:HE3	1.68	0.76
4:WC:1:MET:SD	4:WC:2:ARG:N	2.55	0.76
4:CM:101:ASN:HA	4:CM:144:GLY:HA2	1.68	0.75
7:Ca:398:THR:HG21	7:Cb:281:VAL:HA	1.67	0.75
8:D5:315:LEU:HD23	8:D5:318:LEU:HD12	1.66	0.75
39:EB:501:GTP:O3G	39:EB:501:GTP:O3'	2.03	0.75
3:EL:11:GLN:NE2	39:EL:501:GTP:O1G	2.19	0.75
11:F5:251:GLU:HA	11:F5:254:ILE:HG12	1.68	0.75
11:F8:398:CYS:SG	11:F8:399:ARG:NH1	2.59	0.75
4:FE:271:THR:HA	4:FE:302:MET:HE1	1.67	0.75
3:FL:392:LYS:HB2	3:FL:395:LEU:HD13	1.68	0.75
14:G4:404:ARG:HD2	14:G4:414:HIS:HB3	1.68	0.75
4:II:316:CYS:HB3	4:II:378:LEU:HB3	1.68	0.75
21:K2:466:ARG:NH1	3:KD:399:THR:O	2.18	0.75
4:KG:338:LYS:HZ2	4:KG:340:THR:H	1.33	0.75
3:LH:101:TRP:HB2	3:LH:184:ASN:HD22	1.50	0.75
4:MK:273:ALA:HB2	4:MK:295:CYS:HB3	1.68	0.75
4:OA:101:ASN:HA	4:OA:144:GLY:HA2	1.66	0.75
4:QE:317:MET:HE1	4:QE:351:PHE:HB2	1.68	0.75
3:QH:374:ILE:HA	3:QH:377:LEU:HD13	1.67	0.75
4:WI:25:CYS:HB2	4:WI:30:ILE:HB	1.68	0.75
4:AE:304:LYS:HB3	26:N2:82:HIS:HA	1.69	0.75
3:AF:322:SER:OG	3:AF:324:LYS:NZ	2.18	0.75
5:B1:307:LYS:HE3	5:B1:352:MET:HE3	1.66	0.75
6:C:299:ASN:ND2	6:C:393:LEU:O	2.18	0.75
7:C4:281:VAL:HB	7:C5:394:LYS:HE3	1.69	0.75
3:CD:193:VAL:HG22	3:CD:262:ARG:HH21	1.50	0.75
4:CK:101:ASN:HA	4:CK:144:GLY:HA2	1.69	0.75
3:DL:305:PRO:HB2	3:DL:310:TYR:HE1	1.51	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Fa:439:ASP:OD1	11:Fa:442:GLN:NE2	2.20	0.75
4:GA:358:GLN:NE2	4:GA:359:PRO:O	2.19	0.75
4:HE:216:ASN:HB2	4:HE:276:ILE:HD12	1.67	0.75
4:IE:338:LYS:HZ2	4:IE:340:THR:H	1.31	0.75
3:KD:322:SER:OG	3:KD:324:LYS:NZ	2.20	0.75
4:KE:220:GLU:HG2	4:KE:221:ARG:HG2	1.68	0.75
22:L3:214:LEU:HD12	3:VJ:77:ARG:HH21	1.51	0.75
3:LF:131:GLN:HB3	3:LF:163:ILE:HD12	1.68	0.75
4:LG:244:PHE:HB2	4:LG:356:ASN:HD21	1.51	0.75
3:LH:143:THR:HG22	3:LH:147:MET:HE2	1.66	0.75
4:MK:88:HIS:HB3	4:MK:91:GLN:HB2	1.68	0.75
3:OD:322:SER:OG	3:OD:324:LYS:NZ	2.20	0.75
3:OF:4:ILE:HD11	3:OF:131:GLN:HB2	1.68	0.75
4:PG:49:PHE:HB2	4:PG:53:PHE:HB2	1.67	0.75
3:PJ:322:SER:OG	3:PJ:324:LYS:NZ	2.19	0.75
3:RH:271:ALA:HA	3:RH:293:MET:HE1	1.68	0.75
4:SM:49:PHE:HB2	4:SM:53:PHE:HB2	1.68	0.75
4:VG:49:PHE:HB2	4:VG:53:PHE:HB2	1.67	0.75
34:XD:1:MET:HE1	34:XD:24:ILE:HD11	1.67	0.75
35:XL:179:PRO:HA	35:XL:231:MET:HE2	1.67	0.75
4:BI:358:GLN:NE2	4:BI:359:PRO:O	2.19	0.75
4:BK:338:LYS:HZ2	4:BK:340:THR:H	1.32	0.75
4:CE:213:CYS:HB3	4:CE:219:ILE:HB	1.67	0.75
3:CJ:278:SER:HA	3:CJ:281:TYR:HB2	1.68	0.75
8:D7:116:GLU:HA	11:F1:474:LYS:HZ1	1.50	0.75
4:DA:204:VAL:HG23	4:DA:302:MET:HG3	1.69	0.75
3:DB:211:CYS:HA	3:DB:215:LEU:HB2	1.67	0.75
4:DG:101:ASN:HA	4:DG:144:GLY:HA2	1.67	0.75
3:DL:162:ARG:HA	3:DL:251:ARG:HH22	1.51	0.75
11:F6:361:LEU:HD13	11:F6:451:LEU:HD22	1.69	0.75
11:Fb:469:CYS:SG	11:Fb:473:ARG:NH1	2.60	0.75
11:Fk:425:ASP:OD1	11:Fk:428:GLN:NE2	2.19	0.75
14:G4:566:PHE:HD1	14:G4:585:ILE:HD12	1.52	0.75
4:GI:317:MET:HE1	4:GI:351:PHE:HB2	1.69	0.75
3:HH:346:PRO:HD2	4:HI:398:MET:HE1	1.68	0.75
22:L3:124:ILE:HG23	22:L3:135:ASP:HA	1.68	0.75
4:LA:9:VAL:HG11	4:LA:150:ALA:HB2	1.68	0.75
3:NJ:309:ARG:HE	3:NJ:426:GLN:HE21	1.31	0.75
3:PH:322:SER:OG	3:PH:324:LYS:NZ	2.20	0.75
4:QC:316:CYS:HB3	4:QC:378:LEU:HB3	1.68	0.75
3:SH:322:SER:OG	3:SH:324:LYS:NZ	2.20	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:VI:220:GLU:HG2	4:VI:221:ARG:HG2	1.68	0.75
35:XK:172:PRO:O	35:XK:175:ARG:NH1	2.19	0.75
4:BI:30:ILE:HA	4:BI:36:MET:HE1	1.67	0.75
3:BL:132:GLY:HA2	3:BL:162:ARG:HB3	1.68	0.75
3:CB:322:SER:OG	3:CB:324:LYS:NZ	2.19	0.75
4:CI:208:ALA:H	4:CI:304:LYS:HZ1	1.30	0.75
11:F8:357:LEU:HD21	11:F8:455:LEU:HA	1.67	0.75
11:F8:431:LYS:HB2	11:F8:435:ARG:HH21	1.51	0.75
11:Fl:145:ARG:HH22	11:Fl:293:PRO:HB2	1.52	0.75
11:Fl:212:GLU:HA	11:Fl:215:LEU:HB3	1.68	0.75
11:Fm:145:ARG:HH21	11:Fm:293:PRO:HB2	1.51	0.75
13:G2:423:LEU:HB3	13:G2:506:LEU:HB2	1.67	0.75
4:IG:54:SER:HB2	4:IG:62:VAL:HB	1.66	0.75
4:IK:54:SER:HB2	4:IK:62:VAL:HB	1.68	0.75
19:J2:179:TYR:O	19:J2:183:ALA:N	2.16	0.75
3:ML:391:ARG:HG3	3:ML:391:ARG:O	1.86	0.75
4:MM:9:VAL:HG11	4:MM:150:ALA:HB2	1.67	0.75
3:OB:216:LYS:O	3:OB:276:ARG:NH2	2.18	0.75
29:P1:68:SER:HB3	29:P1:84:VAL:HG23	1.67	0.75
4:PI:101:ASN:HA	4:PI:144:GLY:HA2	1.68	0.75
4:QI:332:ILE:HA	4:QI:335:ILE:HD12	1.67	0.75
3:RL:135:LEU:HD21	3:RL:151:LEU:HD11	1.67	0.75
4:UC:220:GLU:HG2	4:UC:221:ARG:HG2	1.66	0.75
3:UH:309:ARG:HE	3:UH:426:GLN:HE21	1.33	0.75
4:VC:101:ASN:HA	4:VC:144:GLY:HA2	1.66	0.75
3:VD:322:SER:OG	3:VD:324:LYS:NZ	2.19	0.75
4:VI:25:CYS:HB2	4:VI:30:ILE:HB	1.66	0.75
35:XJ:103:MET:HG3	35:XJ:148:ILE:HG12	1.68	0.75
3:AD:99:ASN:OD1	3:AD:142:GLY:HA3	1.86	0.75
4:AG:32:PRO:O	4:AG:85:GLN:NE2	2.19	0.75
5:B3:64:LEU:HB3	5:B3:190:LEU:HD21	1.67	0.75
3:BF:278:SER:HA	3:BF:281:TYR:HB2	1.69	0.75
7:C4:319:ALA:HA	7:C4:322:ARG:HD3	1.67	0.75
3:CB:296:ALA:HA	3:CB:299:MET:HE3	1.68	0.75
4:CE:101:ASN:HA	4:CE:144:GLY:HA2	1.69	0.75
4:CG:358:GLN:NE2	4:CG:359:PRO:O	2.19	0.75
8:D3:78:ARG:HD3	8:D4:335:GLN:HE22	1.50	0.75
3:DJ:245:GLN:OE1	4:DK:15:GLN:NE2	2.19	0.75
4:FI:207:GLU:HB2	4:FI:304:LYS:HZ1	1.51	0.75
11:Fj:257:LYS:HE2	11:Fj:296:TRP:HD1	1.52	0.75
4:GK:358:GLN:NE2	4:GK:359:PRO:O	2.17	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IB:19:LYS:HZ2	3:IB:226:ASN:HB2	1.51	0.75
4:JE:301:GLN:HG3	4:JE:303:VAL:H	1.52	0.75
3:JF:46:ARG:HH12	4:JG:73:THR:HG23	1.51	0.75
4:LI:12:ALA:HB2	39:LI:501:GTP:H5"	1.68	0.75
3:LJ:8:GLN:NE2	3:LJ:13:GLY:O	2.19	0.75
4:MK:49:PHE:HB2	4:MK:53:PHE:HB2	1.69	0.75
3:ML:278:SER:HA	3:ML:281:TYR:HB2	1.69	0.75
4:MM:358:GLN:NE2	4:MM:359:PRO:O	2.19	0.75
4:OA:25:CYS:HB2	4:OA:30:ILE:HB	1.68	0.75
3:OD:247:ASN:HB3	3:OD:252:LYS:HG2	1.68	0.75
3:RH:253:LEU:HB3	3:RH:257:MET:HE1	1.67	0.75
3:SF:322:SER:OG	3:SF:324:LYS:NZ	2.19	0.75
4:TG:210:TYR:HE1	4:TG:227:LEU:HD11	1.52	0.75
4:TG:419:SER:HA	4:TG:422:ARG:HE	1.50	0.75
4:TK:88:HIS:HB3	4:TK:91:GLN:HB3	1.67	0.75
37:YF:61:THR:HG22	37:YF:64:ARG:HH21	1.50	0.75
37:YU:99:LYS:NZ	37:YU:148:MET:SD	2.60	0.75
3:AJ:8:GLN:NE2	3:AJ:13:GLY:O	2.20	0.75
5:B3:283:GLU:HB3	5:B3:373:ILE:HG21	1.69	0.75
8:D2:225:ASP:OD1	8:D3:360:ARG:NH1	2.19	0.75
11:F6:289:THR:HG23	11:F7:409:ARG:HE	1.51	0.75
4:FC:419:SER:HA	4:FC:422:ARG:HE	1.52	0.75
13:G1:438:PHE:CE2	13:G1:451:ILE:HB	2.22	0.75
4:GC:208:ALA:H	4:GC:304:LYS:HZ1	1.32	0.75
3:GD:48:ASN:O	3:GD:62:ARG:NH2	2.20	0.75
3:GF:173:PRO:O	3:GF:380:ARG:NH2	2.20	0.75
4:HA:229:ARG:HE	4:HA:363:VAL:HG11	1.50	0.75
4:IC:25:CYS:HB2	4:IC:30:ILE:HB	1.68	0.75
4:IC:371:VAL:HG11	4:IC:374:ALA:HB2	1.67	0.75
4:LC:208:ALA:H	4:LC:304:LYS:HZ1	1.34	0.75
4:RI:30:ILE:HA	4:RI:36:MET:HE1	1.68	0.75
4:SI:25:CYS:HB2	4:SI:30:ILE:HB	1.68	0.75
4:TI:316:CYS:HB3	4:TI:378:LEU:HB3	1.69	0.75
4:UA:101:ASN:HA	4:UA:144:GLY:HA2	1.69	0.75
4:UG:54:SER:HB2	4:UG:62:VAL:HB	1.69	0.75
4:VC:25:CYS:HB2	4:VC:30:ILE:HB	1.67	0.75
3:WH:70:PRO:HA	3:WH:73:MET:HE3	1.69	0.75
4:AG:419:SER:HA	4:AG:422:ARG:HE	1.52	0.75
5:B6:45:LEU:O	19:J3:97:ARG:NH2	2.19	0.75
7:C1:93:ARG:N	7:C2:210:LEU:O	2.20	0.75
7:Ca:370:GLN:NE2	7:Ca:374:GLN:OE1	2.20	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:D2:267:ARG:HA	8:D2:270:ARG:HE	1.49	0.75
3:DJ:322:SER:OG	3:DJ:324:LYS:NZ	2.19	0.75
4:EA:101:ASN:HA	4:EA:144:GLY:HA2	1.67	0.75
4:EG:101:ASN:HA	4:EG:144:GLY:HA2	1.68	0.75
3:FD:54:ALA:HB3	3:FD:58:LYS:HB2	1.69	0.75
12:G:215:ARG:NH1	25:N:32:PRO:O	2.19	0.75
15:H4:291:SER:OG	15:H4:295:ASN:ND2	2.19	0.75
4:KC:358:GLN:NE2	4:KC:359:PRO:O	2.20	0.75
4:KG:244:PHE:HB2	4:KG:356:ASN:HD21	1.51	0.75
3:KH:194:GLU:OE1	3:KH:195:ASN:ND2	2.18	0.75
3:QF:46:ARG:HH22	4:QG:73:THR:HA	1.50	0.75
4:UC:208:ALA:H	4:UC:304:LYS:HZ1	1.33	0.75
4:UG:180:ALA:HB3	4:UG:183:GLU:HG3	1.67	0.75
4:WA:338:LYS:HZ2	4:WA:340:THR:H	1.35	0.75
37:YI:127:CYS:SG	37:YI:128:ASP:N	2.59	0.75
37:YQ:61:THR:HG22	37:YQ:64:ARG:HH21	1.52	0.75
2:A4:28:GLU:OE1	2:A4:31:ARG:NH2	2.19	0.75
4:AC:220:GLU:HG2	4:AC:221:ARG:HG2	1.69	0.75
4:AE:220:GLU:HG2	4:AE:221:ARG:HG2	1.69	0.75
3:CD:12:CYS:HA	39:CD:501:GTP:HN22	1.51	0.75
3:CJ:322:SER:OG	3:CJ:324:LYS:NZ	2.20	0.75
4:CM:32:PRO:O	4:CM:85:GLN:NE2	2.20	0.75
4:CM:338:LYS:HZ2	4:CM:340:THR:H	1.35	0.75
4:CM:358:GLN:NE2	4:CM:359:PRO:O	2.20	0.75
8:D8:360:ARG:NH1	8:D8:374:GLN:OE1	2.19	0.75
4:EA:338:LYS:HZ2	4:EA:340:THR:H	1.35	0.75
4:EE:208:ALA:H	4:EE:304:LYS:HZ1	1.34	0.75
4:EG:12:ALA:HB2	39:EG:501:GTP:H5"	1.69	0.75
4:FI:30:ILE:HA	4:FI:36:MET:HE1	1.69	0.75
13:G1:420:LEU:HB2	13:G1:442:TYR:HB3	1.68	0.75
13:G1:477:SER:OG	13:G1:481:ASN:O	2.04	0.75
4:GA:54:SER:HB2	4:GA:62:VAL:HB	1.66	0.75
4:GI:168:GLU:OE2	4:GI:198:SER:OG	2.04	0.75
4:HA:358:GLN:NE2	4:HA:359:PRO:O	2.20	0.75
3:IJ:149:THR:O	3:IJ:191:GLN:NE2	2.19	0.75
19:J3:66:GLN:HE22	19:J3:68:VAL:HB	1.52	0.75
4:KC:338:LYS:HZ2	4:KC:340:THR:H	1.35	0.75
3:KD:218:THR:HG22	38:a:29:PHE:HE1	1.51	0.75
22:L1:106:ILE:O	4:LC:402:ARG:NH2	2.19	0.75
4:ME:9:VAL:HG11	4:ME:150:ALA:HB2	1.69	0.75
4:OG:101:ASN:HA	4:OG:144:GLY:HA2	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:OH:48:ASN:O	3:OH:62:ARG:NH2	2.19	0.75
30:Q1:1377:GLU:O	30:Q1:1381:GLN:NE2	2.20	0.75
4:QE:25:CYS:HB2	4:QE:30:ILE:HB	1.68	0.75
3:QH:100:ASN:HB3	3:QH:103:LYS:HB2	1.67	0.75
4:QI:84:ARG:NH2	37:YL:123:ASN:O	2.19	0.75
3:SJ:247:ASN:HB3	3:SJ:252:LYS:HG2	1.67	0.75
3:TB:385:PHE:HA	3:TB:388:MET:HE2	1.66	0.75
3:TD:215:LEU:O	3:TD:276:ARG:NH1	2.19	0.75
3:TJ:262:ARG:HD2	3:TJ:421:GLU:HG3	1.67	0.75
3:VD:132:GLY:HA2	3:VD:162:ARG:HB3	1.69	0.75
4:VI:46:ASP:OD1	4:VI:50:ASN:ND2	2.19	0.75
4:AC:358:GLN:NE2	4:AC:359:PRO:O	2.19	0.75
3:AL:316:VAL:HG22	3:AL:352:ALA:HB3	1.68	0.75
3:CF:60:VAL:HG23	3:CF:86:ARG:HH11	1.50	0.75
3:DJ:278:SER:HA	3:DJ:281:TYR:HB2	1.68	0.75
4:FA:15:GLN:OE1	39:FA:501:GTP:N1	2.19	0.75
4:FA:285:GLN:HE22	4:FA:287:SER:HB3	1.51	0.75
3:FB:5:VAL:HG23	3:FB:130:LEU:HD11	1.69	0.75
3:FB:412:GLU:OE1	3:FB:416:ASN:ND2	2.19	0.75
11:Fi:319:GLU:O	11:Fi:323:HIS:ND1	2.15	0.75
14:G6:30:ASN:HD21	14:G6:32:VAL:HG22	1.51	0.75
4:GG:338:LYS:HZ2	4:GG:340:THR:H	1.34	0.75
15:H4:290:PRO:O	15:H4:315:ARG:NH1	2.19	0.75
4:HE:8:HIS:CE1	4:HE:21:TRP:HH2	2.03	0.75
4:JA:9:VAL:HG11	4:JA:150:ALA:HB2	1.69	0.75
4:JI:101:ASN:HA	4:JI:144:GLY:HA2	1.67	0.75
4:JI:338:LYS:HZ2	4:JI:340:THR:H	1.35	0.75
4:JK:25:CYS:HB2	4:JK:30:ILE:HB	1.66	0.75
20:L:110:ILE:HD11	20:L:187:THR:HA	1.69	0.75
22:L2:65:LYS:NZ	3:LD:409:THR:O	2.18	0.75
4:LE:49:PHE:HB2	4:LE:53:PHE:HB2	1.69	0.75
3:LF:423:GLN:HB3	24:M2:84:LEU:HD11	1.68	0.75
3:LJ:374:ILE:HG23	3:LJ:377:LEU:HD12	1.68	0.75
3:PL:4:ILE:HD11	3:PL:131:GLN:HB2	1.66	0.75
3:QB:258:VAL:HB	4:QC:407:TRP:HZ2	1.51	0.75
3:QD:372:THR:HB	3:QD:375:GLN:HE22	1.52	0.75
4:QG:9:VAL:HG11	4:QG:150:ALA:HB2	1.69	0.75
3:QH:246:LEU:HB2	3:QH:352:ALA:HB1	1.69	0.75
4:RG:101:ASN:HA	4:RG:144:GLY:HA2	1.67	0.75
3:TL:211:CYS:HA	3:TL:215:LEU:HB2	1.67	0.75
3:VF:215:LEU:O	3:VF:276:ARG:NH1	2.20	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WK:220:GLU:HG2	4:WK:221:ARG:HG2	1.67	0.75
34:XA:3:LYS:O	35:XH:62:ARG:NH2	2.20	0.75
3:AH:322:SER:OG	3:AH:324:LYS:NZ	2.20	0.74
4:AM:101:ASN:HA	4:AM:144:GLY:HA2	1.68	0.74
4:AM:214:ARG:NH2	26:N4:87:LYS:O	2.20	0.74
7:C1:121:ARG:NH1	7:C2:378:THR:OG1	2.20	0.74
3:DD:253:LEU:HB3	3:DD:257:MET:HE1	1.68	0.74
4:EA:285:GLN:HE22	4:EA:287:SER:HB3	1.52	0.74
4:EK:338:LYS:HZ2	4:EK:340:THR:H	1.35	0.74
11:F7:373:ASN:HA	11:F7:376:MET:HE3	1.69	0.74
3:FF:141:GLY:HA3	39:FF:501:GTP:H5"	1.69	0.74
3:FL:276:ARG:HG2	13:G3:461:ILE:HA	1.69	0.74
11:Fj:231:LYS:HA	11:Fj:234:LYS:HD2	1.69	0.74
11:Fk:304:ILE:HG13	11:Fk:308:GLN:HE22	1.52	0.74
13:G3:474:LYS:HG2	13:G3:477:SER:HB2	1.68	0.74
3:GB:245:GLN:OE1	4:GC:15:GLN:NE2	2.20	0.74
3:GD:211:CYS:HA	3:GD:215:LEU:HB2	1.69	0.74
3:KF:48:ASN:O	3:KF:62:ARG:NH2	2.20	0.74
3:KF:278:SER:HA	3:KF:281:TYR:HB2	1.69	0.74
3:LH:250:LEU:O	3:LH:254:ALA:N	2.18	0.74
3:MJ:2:ARG:HB3	3:MJ:131:GLN:NE2	2.02	0.74
3:OJ:48:ASN:O	3:OJ:62:ARG:NH2	2.18	0.74
3:PD:2:ARG:HH12	4:PE:96:LYS:HB3	1.52	0.74
4:PM:30:ILE:HA	4:PM:36:MET:HE1	1.69	0.74
3:QD:214:THR:HG21	3:QD:273:LEU:HB3	1.67	0.74
4:RE:224:TYR:HA	4:RE:227:LEU:HB2	1.67	0.74
3:UD:200:TYR:HE2	3:UD:233:MET:HE1	1.52	0.74
3:UJ:60:VAL:HG23	3:UJ:86:ARG:HH11	1.52	0.74
3:VD:131:GLN:HB3	3:VD:163:ILE:HD12	1.69	0.74
4:VI:168:GLU:OE2	4:VI:198:SER:OG	2.05	0.74
4:WK:1:MET:SD	4:WK:2:ARG:N	2.55	0.74
34:XE:1:MET:HE1	34:XE:24:ILE:HD11	1.69	0.74
34:XE:79:ILE:HD13	34:XE:164:ARG:HB3	1.69	0.74
3:DF:309:ARG:HE	3:DF:426:GLN:HE21	1.33	0.74
3:ED:372:THR:HB	3:ED:375:GLN:HE22	1.52	0.74
4:EE:40:LYS:HD2	14:G5:716:LYS:HG3	1.69	0.74
3:EJ:191:GLN:O	3:EJ:195:ASN:ND2	2.20	0.74
11:F1:426:THR:HG22	11:F2:127:LYS:HE2	1.66	0.74
11:F9:409:ARG:HH22	11:Fa:286:PHE:HB2	1.52	0.74
3:FB:8:GLN:NE2	3:FB:13:GLY:O	2.21	0.74
13:G1:147:LYS:NZ	13:G1:149:ILE:O	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H5:307:ALA:O	15:H5:311:GLU:N	2.19	0.74
3:HB:211:CYS:HA	3:HB:215:LEU:HB2	1.69	0.74
4:HE:358:GLN:NE2	4:HE:359:PRO:O	2.19	0.74
3:LJ:316:VAL:HG22	3:LJ:352:ALA:HB3	1.68	0.74
4:MK:245:ASP:O	4:MK:356:ASN:ND2	2.19	0.74
3:PF:259:PRO:HD2	3:PF:263:LEU:HD21	1.69	0.74
3:TJ:316:VAL:HG22	3:TJ:352:ALA:HB3	1.68	0.74
4:UE:216:ASN:HB2	4:UE:276:ILE:HD12	1.69	0.74
4:VK:429:GLU:HA	4:VK:432:TYR:HD2	1.52	0.74
4:WG:220:GLU:HG2	4:WG:221:ARG:HG2	1.66	0.74
2:A1:297:MET:HE3	7:C2:183:ARG:HD2	1.69	0.74
4:AE:371:VAL:HG11	4:AE:374:ALA:HB2	1.69	0.74
3:BD:322:SER:OG	3:BD:324:LYS:NZ	2.20	0.74
3:BL:309:ARG:HE	3:BL:426:GLN:HE21	1.34	0.74
4:BM:49:PHE:HB2	4:BM:53:PHE:HB2	1.69	0.74
4:CE:338:LYS:HZ2	4:CE:340:THR:H	1.35	0.74
3:CH:247:ASN:HB3	3:CH:252:LYS:HG2	1.68	0.74
7:Cd:180:ARG:HG2	7:Cd:183:ARG:HH21	1.52	0.74
11:F8:319:GLU:O	11:F8:323:HIS:ND1	2.19	0.74
4:HC:25:CYS:HB2	4:HC:30:ILE:HB	1.68	0.74
4:IC:49:PHE:HB2	4:IC:53:PHE:HB2	1.69	0.74
3:ID:211:CYS:HA	3:ID:215:LEU:HB2	1.69	0.74
4:KC:35:GLN:HE21	4:KC:42:ILE:HD11	1.52	0.74
4:KE:203:MET:HE1	4:KE:267:PHE:HB3	1.67	0.74
4:KE:313:MET:HE3	4:KE:380:ASN:HB3	1.69	0.74
3:MH:322:SER:OG	3:MH:324:LYS:NZ	2.20	0.74
3:PL:48:ASN:O	3:PL:62:ARG:NH2	2.20	0.74
4:RM:32:PRO:O	4:RM:85:GLN:NE2	2.20	0.74
3:SB:60:VAL:HG23	3:SB:86:ARG:HH11	1.53	0.74
3:UL:262:ARG:HD2	3:UL:421:GLU:HG3	1.68	0.74
3:AH:374:ILE:HA	3:AH:377:LEU:HD13	1.69	0.74
4:AK:49:PHE:HB2	4:AK:53:PHE:HB2	1.68	0.74
3:BD:135:LEU:HD21	3:BD:151:LEU:HD11	1.69	0.74
3:CB:278:SER:HA	3:CB:281:TYR:HB2	1.69	0.74
3:CD:322:SER:OG	3:CD:324:LYS:NZ	2.20	0.74
4:CI:338:LYS:HZ2	4:CI:340:THR:H	1.35	0.74
3:CL:173:PRO:O	3:CL:380:ARG:NH2	2.20	0.74
8:D6:363:ARG:HH21	8:D6:369:CYS:H	1.34	0.74
8:D8:267:ARG:HA	8:D8:270:ARG:HE	1.53	0.74
3:EB:99:ASN:HB2	3:EB:142:GLY:HA3	1.67	0.74
4:EK:49:PHE:HB2	4:EK:53:PHE:HB2	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:F5:327:THR:HG22	11:F5:331:GLN:HE22	1.53	0.74
4:FG:30:ILE:HA	4:FG:36:MET:HE1	1.69	0.74
3:FH:12:CYS:SG	3:FH:13:GLY:N	2.60	0.74
4:IC:358:GLN:NE2	4:IC:359:PRO:O	2.20	0.74
21:K2:170:LYS:NZ	21:K2:478:GLN:OE1	2.21	0.74
4:KA:273:ALA:HB2	4:KA:295:CYS:HB3	1.70	0.74
22:L4:46:MET:HE1	3:ML:339:SER:H	1.51	0.74
22:L4:46:MET:SD	3:ML:339:SER:OG	2.44	0.74
4:LG:208:ALA:H	4:LG:304:LYS:HZ1	1.35	0.74
3:LL:216:LYS:O	3:LL:276:ARG:NH2	2.20	0.74
3:ML:322:SER:OG	3:ML:324:LYS:NZ	2.21	0.74
4:NE:108:TYR:O	4:NE:112:LYS:NZ	2.20	0.74
28:O3:37:GLY:HA2	30:Q3:1413:SER:HA	1.69	0.74
3:OH:135:LEU:HD21	3:OH:151:LEU:HD11	1.68	0.74
29:P2:442:ARG:HG2	29:P2:456:ALA:HA	1.70	0.74
4:RK:101:ASN:HA	4:RK:144:GLY:HA2	1.69	0.74
3:SF:4:ILE:HD11	3:SF:131:GLN:HB2	1.67	0.74
3:SL:322:SER:OG	3:SL:324:LYS:NZ	2.21	0.74
3:UD:48:ASN:O	3:UD:62:ARG:NH2	2.20	0.74
3:WB:376:GLU:HA	3:WB:379:LYS:HE3	1.67	0.74
3:WH:125:GLU:HG3	34:XE:45:LEU:HB2	1.68	0.74
3:WH:322:SER:OG	3:WH:324:LYS:NZ	2.20	0.74
34:XD:94:LEU:HB2	34:XD:152:LEU:HD11	1.69	0.74
1:A:134:ASN:HA	1:A:137:ARG:HD3	1.68	0.74
5:B2:303:ASP:OD1	5:B2:306:ARG:NH2	2.20	0.74
3:CL:41:ASP:HB3	15:H6:213:ILE:HA	1.69	0.74
8:D5:350:LEU:HG	8:D5:384:LEU:HD23	1.68	0.74
3:FH:247:ASN:HB3	3:FH:252:LYS:HG2	1.70	0.74
3:GF:3:GLU:HG2	3:GF:130:LEU:HD13	1.68	0.74
3:HL:374:ILE:HA	3:HL:377:LEU:HD13	1.69	0.74
19:J3:166:ARG:HG3	19:J3:177:ASN:HD22	1.50	0.74
3:KB:302:ALA:HB1	3:KB:377:LEU:HD11	1.68	0.74
4:LE:244:PHE:HB2	4:LE:356:ASN:HD21	1.53	0.74
4:LG:220:GLU:HG2	4:LG:221:ARG:HG2	1.70	0.74
4:MC:339:ARG:HD2	28:O1:25:ALA:HA	1.68	0.74
4:NG:49:PHE:HB2	4:NG:53:PHE:HB2	1.70	0.74
4:OI:220:GLU:HG2	4:OI:221:ARG:HG2	1.70	0.74
3:PB:284:LEU:HD23	3:PB:363:MET:HE2	1.70	0.74
4:QM:154:MET:HE2	4:QM:194:THR:HG22	1.70	0.74
4:RC:30:ILE:HA	4:RC:36:MET:HE1	1.69	0.74
4:TG:388:TRP:HB3	4:TG:425:LEU:HD11	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WA:205:ASP:OD2	4:WA:304:LYS:NZ	2.21	0.74
35:XL:182:ASN:ND2	35:XL:231:MET:O	2.21	0.74
5:B7:192:LEU:O	5:B8:317:ARG:NH2	2.20	0.74
4:BG:220:GLU:HG2	4:BG:221:ARG:HG2	1.69	0.74
3:BH:278:SER:HA	3:BH:281:TYR:HB2	1.68	0.74
7:C9:375:ILE:O	7:C9:378:THR:OG1	2.05	0.74
6:D:63:ARG:NH1	6:D:64:THR:O	2.20	0.74
8:D2:118:GLN:OE1	8:D2:215:TRP:NE1	2.21	0.74
4:EE:358:GLN:NE2	4:EE:359:PRO:O	2.21	0.74
4:EK:54:SER:HB2	4:EK:62:VAL:HB	1.70	0.74
11:F1:196:TYR:OH	11:F5:251:GLU:OE2	2.06	0.74
4:FC:178:SER:OG	4:FC:180:ALA:O	2.06	0.74
4:FC:358:GLN:NE2	4:FC:359:PRO:O	2.21	0.74
3:FH:262:ARG:HD2	3:FH:421:GLU:HG3	1.69	0.74
13:G1:396:ASN:HA	13:G1:402:PRO:HB3	1.70	0.74
13:G3:424:ALA:HB3	13:G3:438:PHE:HB3	1.68	0.74
14:G6:453:VAL:HB	14:G6:466:PHE:HB3	1.69	0.74
15:H3:302:ASN:O	15:H3:306:ARG:N	2.19	0.74
4:HA:88:HIS:HB3	4:HA:91:GLN:HB2	1.70	0.74
3:HB:262:ARG:HD2	3:HB:421:GLU:HG3	1.68	0.74
21:K2:355:GLY:HA2	21:K2:358:ARG:HE	1.51	0.74
4:KG:49:PHE:HB2	4:KG:53:PHE:HB2	1.69	0.74
3:KL:4:ILE:HD11	3:KL:131:GLN:HB2	1.67	0.74
22:L1:31:PHE:HA	22:L1:35:ILE:HB	1.70	0.74
4:LA:295:CYS:HB2	4:LA:377:MET:HE3	1.68	0.74
4:LC:216:ASN:HB2	4:LC:276:ILE:HD12	1.69	0.74
3:MB:28:HIS:HE1	3:MB:241:ARG:HE	1.36	0.74
28:O1:102:LEU:HA	28:O1:109:LEU:HD23	1.67	0.74
4:OG:390:ARG:HA	4:OG:393:HIS:CE1	2.22	0.74
3:OJ:211:CYS:HA	3:OJ:215:LEU:HB2	1.70	0.74
29:P2:68:SER:HB3	29:P2:84:VAL:HG23	1.70	0.74
3:PB:215:LEU:O	3:PB:276:ARG:NH1	2.19	0.74
3:PF:100:ASN:HB3	3:PF:103:LYS:HB2	1.68	0.74
3:PH:132:GLY:HA2	3:PH:162:ARG:HB3	1.70	0.74
3:RF:48:ASN:O	3:RF:62:ARG:NH2	2.20	0.74
4:SK:108:TYR:O	4:SK:112:LYS:NZ	2.19	0.74
4:TG:49:PHE:HB2	4:TG:53:PHE:HB2	1.69	0.74
35:XH:207:ASP:OD1	35:XH:210:GLN:NE2	2.20	0.74
4:AK:54:SER:HB2	4:AK:62:VAL:HB	1.69	0.74
5:B2:64:LEU:HB3	5:B2:190:LEU:HD21	1.69	0.74
3:BF:250:LEU:O	3:BF:254:ALA:N	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BF:316:VAL:HG22	3:BF:352:ALA:HB3	1.70	0.74
3:DH:322:SER:OG	3:DH:324:LYS:NZ	2.20	0.74
4:EC:220:GLU:HG2	4:EC:221:ARG:HG2	1.68	0.74
3:FF:323:MET:SD	4:FG:210:TYR:OH	2.44	0.74
3:FJ:278:SER:HA	3:FJ:281:TYR:HB2	1.69	0.74
3:HD:46:ARG:HH22	4:HE:73:THR:HA	1.51	0.74
4:IA:21:TRP:HA	4:IA:24:TYR:HB2	1.69	0.74
4:JE:338:LYS:HZ2	4:JE:340:THR:H	1.34	0.74
21:K3:433:LEU:HB3	21:K3:437:ARG:HH12	1.53	0.74
4:KE:204:VAL:HG23	4:KE:302:MET:HG3	1.68	0.74
20:L:14:ASN:OD1	20:L:15:TRP:N	2.20	0.74
3:LB:215:LEU:O	3:LB:276:ARG:NH1	2.20	0.74
4:LC:67:PHE:HB2	4:LC:92:LEU:HD13	1.69	0.74
3:LD:289:LEU:HD21	3:LD:363:MET:HB3	1.69	0.74
3:LH:194:GLU:OE1	3:LH:195:ASN:ND2	2.20	0.74
3:MB:322:SER:OG	3:MB:324:LYS:NZ	2.20	0.74
3:NL:48:ASN:O	3:NL:62:ARG:NH2	2.21	0.74
30:Q1:1509:ASP:OD1	30:Q1:1512:ARG:NH2	2.20	0.74
30:Q3:1419:ARG:O	30:Q3:1508:ASN:ND2	2.20	0.74
3:QJ:100:ASN:HB3	3:QJ:103:LYS:HB2	1.67	0.74
4:QK:25:CYS:HB2	4:QK:30:ILE:HB	1.68	0.74
3:RB:131:GLN:HB3	3:RB:163:ILE:HD12	1.69	0.74
3:RD:286:VAL:HG21	3:RD:325:GLU:HG3	1.68	0.74
4:RE:25:CYS:HB2	4:RE:30:ILE:HB	1.69	0.74
4:TK:143:GLY:HA3	4:TK:147:SER:H	1.51	0.74
3:TL:278:SER:HA	3:TL:281:TYR:HB2	1.68	0.74
4:VE:338:LYS:HZ2	4:VE:340:THR:H	1.35	0.74
3:VF:250:LEU:O	3:VF:254:ALA:N	2.19	0.74
4:VI:338:LYS:HZ2	4:VI:340:THR:H	1.33	0.74
4:WG:203:MET:HE1	4:WG:267:PHE:HB3	1.67	0.74
4:WK:208:ALA:H	4:WK:304:LYS:HZ1	1.31	0.74
34:XC:1:MET:HG2	34:XC:67:LYS:HE3	1.69	0.74
34:XD:92:GLN:HB3	34:XD:153:ARG:HG3	1.67	0.74
37:YG:41:ARG:HH12	37:YG:45:SER:H	1.33	0.74
4:AK:262:TYR:OH	3:AL:391:ARG:O	2.06	0.74
3:BH:41:ASP:OD1	15:H4:6:LYS:NZ	2.21	0.74
4:BM:338:LYS:HZ2	4:BM:340:THR:H	1.35	0.74
4:CI:419:SER:HA	4:CI:422:ARG:HE	1.51	0.74
4:CK:152:LEU:HG	4:CK:156:ARG:HH22	1.52	0.74
4:DG:49:PHE:HB2	4:DG:53:PHE:HB2	1.67	0.74
10:E2:2:GLU:O	10:E2:6:ARG:NH2	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EC:88:HIS:HB3	4:EC:91:GLN:HB2	1.67	0.74
3:ED:132:GLY:HA2	3:ED:162:ARG:HB3	1.69	0.74
3:EF:286:VAL:HG21	3:EF:325:GLU:HG3	1.68	0.74
3:GH:372:THR:HG21	3:GH:426:GLN:HG3	1.68	0.74
15:H5:292:MET:HG3	15:H5:293:GLN:H	1.53	0.74
3:HJ:372:THR:HG21	3:HJ:426:GLN:HG3	1.68	0.74
4:JG:25:CYS:HB2	4:JG:30:ILE:HB	1.69	0.74
4:KK:273:ALA:HB2	4:KK:295:CYS:HB3	1.68	0.74
3:KL:211:CYS:HA	3:KL:215:LEU:HB2	1.68	0.74
4:LA:25:CYS:HB2	4:LA:30:ILE:HB	1.68	0.74
3:LD:143:THR:HG22	3:LD:147:MET:HE2	1.69	0.74
3:LJ:376:GLU:HA	3:LJ:379:LYS:HE3	1.69	0.74
4:LK:155:GLU:OE1	28:O3:74:ILE:N	2.21	0.74
4:MG:54:SER:HB2	4:MG:62:VAL:HB	1.68	0.74
28:O3:47:GLY:O	28:O3:55:ARG:NH2	2.20	0.74
3:OH:322:SER:OG	3:OH:324:LYS:NZ	2.21	0.74
4:PG:9:VAL:HG11	4:PG:150:ALA:HB2	1.69	0.74
4:RC:32:PRO:O	4:RC:85:GLN:NE2	2.19	0.74
4:RM:49:PHE:HB2	4:RM:53:PHE:HB2	1.69	0.74
4:SM:25:CYS:HB2	4:SM:30:ILE:HB	1.68	0.74
4:TM:229:ARG:HE	4:TM:368:LEU:HD22	1.53	0.74
3:WB:278:SER:HA	3:WB:281:TYR:HB2	1.68	0.74
4:AG:220:GLU:HG2	4:AG:221:ARG:HG2	1.69	0.74
5:B3:321:ARG:HD3	5:B3:335:GLN:HE21	1.52	0.74
3:BH:322:SER:OG	3:BH:324:LYS:NZ	2.21	0.74
3:BJ:250:LEU:O	3:BJ:254:ALA:N	2.17	0.74
4:BK:419:SER:HA	4:BK:422:ARG:HE	1.52	0.74
39:BL:501:GTP:O3G	39:BL:501:GTP:O3'	2.06	0.74
6:C:268:ILE:HG13	6:C:326:CYS:HA	1.70	0.74
4:CI:49:PHE:HB2	4:CI:53:PHE:HB2	1.69	0.74
8:D2:87:GLU:OE1	13:G1:7:HIS:ND1	2.21	0.74
8:D3:194:ILE:HG23	10:E2:134:TRP:HE1	1.52	0.74
9:E:579:ASN:HB3	9:E:583:PHE:HB2	1.68	0.74
11:Fh:402:ARG:O	11:Fi:241:ARG:NH2	2.21	0.74
4:GA:25:CYS:HB2	4:GA:30:ILE:HB	1.70	0.74
15:H4:311:GLU:HA	15:H4:315:ARG:HG3	1.68	0.74
4:HK:358:GLN:NE2	4:HK:359:PRO:O	2.21	0.74
4:IK:311:LYS:H	4:IK:382:THR:HG22	1.53	0.74
3:LF:306:ARG:NH2	24:M2:64:MET:SD	2.60	0.74
3:NB:271:ALA:HA	3:NB:293:MET:HE1	1.70	0.74
4:OE:12:ALA:HB2	39:OE:501:GTP:H5"	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:P3:185:TRP:HB3	29:P3:194:ILE:HD11	1.70	0.74
4:PA:208:ALA:H	4:PA:304:LYS:HZ1	1.33	0.74
4:PG:271:THR:HA	4:PG:302:MET:HE1	1.70	0.74
3:QB:322:SER:OG	3:QB:324:LYS:NZ	2.21	0.74
3:QJ:132:GLY:HA2	3:QJ:162:ARG:HB3	1.69	0.74
3:UB:4:ILE:HD11	3:UB:131:GLN:HB2	1.70	0.74
35:XM:93:LEU:HD11	35:XM:118:MET:HE3	1.69	0.74
37:YF:33:ARG:NH2	37:YF:134:TYR:OH	2.20	0.74
2:A2:323:ARG:NH2	2:A3:181:ALA:O	2.21	0.74
4:CI:25:CYS:HB2	4:CI:30:ILE:HB	1.70	0.74
8:D2:406:GLU:HA	8:D2:409:ARG:HG2	1.70	0.74
8:D4:137:ARG:HD2	8:D4:447:GLN:HA	1.70	0.74
4:DA:213:CYS:HB3	4:DA:219:ILE:HB	1.68	0.74
3:DJ:246:LEU:HB2	3:DJ:352:ALA:HB1	1.70	0.74
11:F2:393:GLN:NE2	11:F3:278:SER:O	2.20	0.74
4:GA:316:CYS:N	4:GA:378:LEU:O	2.21	0.74
3:GD:412:GLU:OE1	3:GD:416:ASN:ND2	2.21	0.74
3:GL:6:HIS:ND1	3:GL:8:GLN:OE1	2.21	0.74
15:H1:214:GLN:OE1	15:H1:215:ARG:NH1	2.21	0.74
4:HE:49:PHE:HB2	4:HE:53:PHE:HB2	1.68	0.74
4:JA:209:ILE:HG21	4:JA:227:LEU:HG	1.68	0.74
3:JH:60:VAL:HG23	3:JH:86:ARG:HH11	1.53	0.74
3:LH:322:SER:OG	3:LH:324:LYS:NZ	2.21	0.74
4:LK:370:LYS:NZ	27:R:213:VAL:O	2.21	0.74
3:PD:37:HIS:HA	37:YG:64:ARG:HH12	1.52	0.74
3:PD:246:LEU:HB2	3:PD:352:ALA:HB1	1.70	0.74
3:PF:48:ASN:O	3:PF:62:ARG:NH2	2.20	0.74
3:PL:46:ARG:HH12	4:PM:73:THR:HG23	1.52	0.74
3:QH:247:ASN:HB3	3:QH:252:LYS:HG2	1.69	0.74
4:SC:25:CYS:HB2	4:SC:30:ILE:HB	1.70	0.74
4:TE:419:SER:HA	4:TE:422:ARG:HE	1.53	0.74
4:VK:101:ASN:HA	4:VK:144:GLY:HA2	1.69	0.74
4:VK:338:LYS:HZ2	4:VK:340:THR:H	1.35	0.74
4:WI:220:GLU:HG2	4:WI:221:ARG:HG2	1.70	0.74
34:XC:78:MET:H	34:XC:132:ILE:HB	1.51	0.74
37:YO:19:GLN:NE2	37:YO:120:GLU:OE2	2.21	0.74
2:A2:135:GLU:HB3	2:A2:260:VAL:HG12	1.70	0.73
4:BG:203:MET:HE1	4:BG:267:PHE:HB3	1.70	0.73
3:BH:47:ILE:HG13	3:BH:51:TYR:HB2	1.70	0.73
4:BI:25:CYS:HB2	4:BI:30:ILE:HB	1.68	0.73
3:BL:246:LEU:HB2	3:BL:352:ALA:HB1	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C6:114:ARG:NH2	7:C7:368:THR:OG1	2.21	0.73
3:CD:47:ILE:H	15:H2:224:PHE:HZ	1.34	0.73
8:D4:228:CYS:SG	8:D5:360:ARG:NH2	2.60	0.73
4:DG:220:GLU:HG2	4:DG:221:ARG:HG2	1.69	0.73
3:DL:412:GLU:OE1	3:DL:416:ASN:ND2	2.21	0.73
4:EC:208:ALA:H	4:EC:304:LYS:HZ1	1.33	0.73
4:EG:358:GLN:NE2	4:EG:359:PRO:O	2.21	0.73
3:FD:250:LEU:O	3:FD:254:ALA:N	2.21	0.73
4:GA:391:LEU:HD23	4:GA:394:LYS:HZ1	1.53	0.73
4:HG:216:ASN:HB2	4:HG:276:ILE:HD12	1.69	0.73
39:HJ:501:GTP:O3G	39:HJ:501:GTP:O3'	2.06	0.73
4:IE:25:CYS:HB2	4:IE:30:ILE:HB	1.69	0.73
4:II:49:PHE:HB2	4:II:53:PHE:HB2	1.68	0.73
4:JE:54:SER:HB2	4:JE:62:VAL:HB	1.69	0.73
21:K2:211:ARG:O	21:K2:211:ARG:NH1	2.21	0.73
4:KI:220:GLU:HG2	4:KI:221:ARG:HG2	1.69	0.73
3:LL:278:SER:HA	3:LL:281:TYR:HB2	1.68	0.73
4:MI:25:CYS:HB2	4:MI:30:ILE:HB	1.69	0.73
4:MM:54:SER:HB2	4:MM:62:VAL:HB	1.70	0.73
4:NC:25:CYS:HB2	4:NC:30:ILE:HB	1.68	0.73
4:NI:220:GLU:HG2	4:NI:221:ARG:HG2	1.68	0.73
4:NK:49:PHE:HB2	4:NK:53:PHE:HB2	1.70	0.73
4:OC:9:VAL:HG11	4:OC:150:ALA:HB2	1.70	0.73
4:OE:220:GLU:HG2	4:OE:221:ARG:HG2	1.70	0.73
29:P2:93:ILE:HD11	29:P2:114:ILE:HG21	1.70	0.73
3:PB:46:ARG:HH12	4:PC:73:THR:HG23	1.52	0.73
4:PE:209:ILE:HG21	4:PE:227:LEU:HG	1.70	0.73
4:RG:30:ILE:HA	4:RG:36:MET:HE1	1.69	0.73
3:RJ:322:SER:OG	3:RJ:324:LYS:NZ	2.21	0.73
3:VF:48:ASN:O	3:VF:62:ARG:NH2	2.21	0.73
3:VL:215:LEU:O	3:VL:276:ARG:NH1	2.19	0.73
35:XM:71:HIS:O	35:XM:77:LYS:NZ	2.21	0.73
2:A4:52:THR:O	2:A4:56:GLN:NE2	2.21	0.73
4:BM:25:CYS:HB2	4:BM:30:ILE:HB	1.69	0.73
4:BM:141:PHE:HE2	4:BM:203:MET:HE1	1.53	0.73
7:C7:164:LEU:HA	7:C7:167:MET:SD	2.28	0.73
7:Cc:405:ARG:HH12	10:E3:5:ARG:HH22	1.34	0.73
8:D8:360:ARG:O	8:D8:363:ARG:NH1	2.20	0.73
4:DA:25:CYS:HB2	4:DA:30:ILE:HB	1.70	0.73
4:DG:258:ASN:HB3	4:DG:352:LYS:HE2	1.70	0.73
3:EJ:211:CYS:HA	3:EJ:215:LEU:HB2	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:F:360:GLN:NE2	3:IL:359:ARG:O	2.20	0.73
4:FI:262:TYR:OH	3:FJ:391:ARG:O	2.06	0.73
3:FJ:246:LEU:HB2	3:FJ:352:ALA:HB1	1.69	0.73
11:Fm:243:ASN:ND2	11:Fm:310:MET:SD	2.61	0.73
12:G:159:GLU:HG3	12:G:160:ARG:HE	1.50	0.73
14:G6:49:TYR:OH	3:ML:79:GLY:O	2.06	0.73
4:GA:338:LYS:HZ2	4:GA:340:THR:H	1.34	0.73
15:H1:307:ALA:O	15:H1:311:GLU:N	2.15	0.73
3:HD:322:SER:OG	3:HD:324:LYS:NZ	2.21	0.73
4:HG:30:ILE:HA	4:HG:36:MET:HE1	1.70	0.73
3:IH:412:GLU:OE1	3:IH:416:ASN:ND2	2.20	0.73
4:JE:25:CYS:HB2	4:JE:30:ILE:HB	1.70	0.73
3:JH:253:LEU:HB3	3:JH:257:MET:HE1	1.68	0.73
21:K4:156:ARG:NH2	4:KK:414:GLU:OE2	2.21	0.73
22:L2:188:LEU:HB2	22:L2:252:ILE:HG13	1.70	0.73
4:ME:358:GLN:NE2	4:ME:359:PRO:O	2.20	0.73
4:MK:25:CYS:HB2	4:MK:30:ILE:HB	1.70	0.73
4:NG:25:CYS:HB2	4:NG:30:ILE:HB	1.70	0.73
3:OJ:193:VAL:O	3:OJ:262:ARG:NH2	2.21	0.73
27:P:26:GLN:HA	27:P:29:ILE:HD12	1.70	0.73
3:PB:374:ILE:HA	3:PB:377:LEU:HD13	1.69	0.73
30:Q2:1455:ARG:O	30:Q2:1459:LYS:NZ	2.21	0.73
3:QJ:262:ARG:HD2	3:QJ:421:GLU:HG3	1.70	0.73
31:R2:258:GLN:OE1	31:R2:262:LYS:NZ	2.21	0.73
4:RC:152:LEU:HG	4:RC:156:ARG:HH12	1.52	0.73
3:SB:4:ILE:HD11	3:SB:131:GLN:HB2	1.69	0.73
4:TM:220:GLU:HG2	4:TM:221:ARG:HG2	1.69	0.73
33:U:194:MET:HA	33:U:197:ILE:HD12	1.69	0.73
4:UG:220:GLU:HG2	4:UG:221:ARG:HG2	1.70	0.73
3:VF:376:GLU:HA	3:VF:379:LYS:HE3	1.69	0.73
3:VJ:247:ASN:HB3	3:VJ:252:LYS:HG2	1.68	0.73
2:A3:8:PRO:O	2:A3:10:ARG:NH1	2.21	0.73
4:BE:192:HIS:HA	4:BE:195:LEU:HD23	1.69	0.73
4:BE:216:ASN:HB2	4:BE:276:ILE:HD12	1.70	0.73
4:BG:388:TRP:HB3	4:BG:425:LEU:HD11	1.68	0.73
3:CH:47:ILE:HA	3:CH:241:ARG:HH12	1.53	0.73
4:CM:213:CYS:HB3	4:CM:219:ILE:HB	1.70	0.73
6:D:361:ARG:NH1	6:D:371:ASN:O	2.21	0.73
11:Fg:195:LEU:HD21	11:Fg:215:LEU:HD21	1.70	0.73
13:G3:245:PHE:HB2	13:G3:264:ILE:HB	1.69	0.73
3:GL:372:THR:HG21	3:GL:426:GLN:HG3	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HH:372:THR:HG21	3:HH:426:GLN:HG3	1.70	0.73
4:HI:358:GLN:NE2	4:HI:359:PRO:O	2.20	0.73
3:IB:278:SER:HA	3:IB:281:TYR:HB2	1.69	0.73
4:JE:66:VAL:HA	4:JE:91:GLN:HE21	1.53	0.73
4:KA:306:ASP:OD2	4:NA:282:TYR:OH	2.06	0.73
3:KF:322:SER:OG	3:KF:324:LYS:NZ	2.21	0.73
4:KK:220:GLU:HG2	4:KK:221:ARG:HG2	1.69	0.73
4:OG:204:VAL:HG23	4:OG:302:MET:HG3	1.69	0.73
4:PI:220:GLU:HG2	4:PI:221:ARG:HG2	1.69	0.73
3:PJ:216:LYS:O	3:PJ:276:ARG:NH2	2.21	0.73
3:QJ:54:ALA:HB3	3:QJ:58:LYS:HB2	1.69	0.73
3:QJ:245:GLN:OE1	4:QK:15:GLN:NE2	2.21	0.73
3:QJ:328:GLU:OE1	3:QJ:332:ASN:ND2	2.21	0.73
3:SD:48:ASN:O	3:SD:62:ARG:NH2	2.21	0.73
4:UE:207:GLU:HB2	4:UE:304:LYS:HZ1	1.52	0.73
3:UH:322:SER:OG	3:UH:324:LYS:NZ	2.21	0.73
4:WE:54:SER:HB2	4:WE:62:VAL:HB	1.69	0.73
3:WL:278:SER:HA	3:WL:281:TYR:HB2	1.70	0.73
4:AI:419:SER:HA	4:AI:422:ARG:HE	1.53	0.73
4:AK:208:ALA:H	4:AK:304:LYS:HZ1	1.35	0.73
4:AM:49:PHE:HB2	4:AM:53:PHE:HB2	1.70	0.73
7:C9:384:LYS:HA	7:C9:387:LYS:HD2	1.70	0.73
4:CE:226:ASN:OD1	15:H2:33:ASN:ND2	2.21	0.73
3:CL:309:ARG:HE	3:CL:426:GLN:HE21	1.36	0.73
4:CM:108:TYR:O	4:CM:112:LYS:NZ	2.21	0.73
6:D:308:LYS:O	12:G:98:ARG:NH1	2.21	0.73
4:DG:54:SER:HB2	4:DG:62:VAL:HB	1.69	0.73
10:E3:153:ARG:NH1	10:E3:154:ASN:OD1	2.21	0.73
11:F5:278:SER:O	11:F6:393:GLN:NE2	2.21	0.73
11:F6:125:GLN:O	11:F6:129:GLN:NE2	2.21	0.73
3:FB:55:THR:O	3:FB:58:LYS:NZ	2.20	0.73
13:G3:438:PHE:HE2	13:G3:451:ILE:HB	1.53	0.73
3:GF:278:SER:HA	3:GF:281:TYR:HB3	1.68	0.73
19:J1:84:PHE:O	19:J1:122:LYS:NZ	2.21	0.73
4:JI:30:ILE:HA	4:JI:36:MET:HE1	1.69	0.73
4:KG:101:ASN:HA	4:KG:144:GLY:HA2	1.69	0.73
4:LA:338:LYS:HZ2	4:LA:340:THR:H	1.35	0.73
4:MC:207:GLU:HB2	4:MC:304:LYS:HZ1	1.52	0.73
4:MC:358:GLN:NE2	4:MC:359:PRO:O	2.19	0.73
3:OB:46:ARG:HH12	4:OC:73:THR:HG23	1.53	0.73
29:P1:78:TYR:HB3	29:P1:95:LEU:HD11	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:WB:246:LEU:HB2	3:WB:352:ALA:HB1	1.70	0.73
4:WK:316:CYS:HB3	4:WK:378:LEU:HB3	1.71	0.73
1:A:127:LYS:HZ3	1:B:467:VAL:HG22	1.51	0.73
4:CG:208:ALA:H	4:CG:304:LYS:HZ1	1.35	0.73
3:CH:309:ARG:HE	3:CH:426:GLN:HE21	1.36	0.73
4:CI:262:TYR:OH	3:CJ:391:ARG:O	2.05	0.73
4:CK:236:SER:O	4:CK:243:ARG:NH2	2.22	0.73
8:D2:249:GLU:OE1	8:D3:370:ARG:NH2	2.21	0.73
3:DB:289:LEU:HD21	3:DB:363:MET:HB3	1.71	0.73
4:EA:49:PHE:HB2	4:EA:53:PHE:HB2	1.70	0.73
11:F3:160:LEU:HD21	11:F3:250:LEU:HB3	1.70	0.73
4:FE:101:ASN:HA	4:FE:144:GLY:HA2	1.70	0.73
4:FG:338:LYS:HZ2	4:FG:340:THR:H	1.35	0.73
3:FJ:4:ILE:HD11	3:FJ:131:GLN:HB2	1.71	0.73
11:Fg:200:LYS:HB2	11:Fg:468:LYS:HE3	1.70	0.73
3:IJ:186:THR:HG22	3:IJ:415:MET:HE1	1.68	0.73
20:K:73:VAL:O	20:K:268:MET:N	2.20	0.73
22:L4:26:ARG:HH12	22:L4:36:LYS:HZ2	1.35	0.73
4:LC:155:GLU:OE1	28:O1:74:ILE:N	2.21	0.73
4:MK:358:GLN:NE2	4:MK:359:PRO:O	2.21	0.73
3:ML:246:LEU:HB2	3:ML:352:ALA:HB1	1.69	0.73
3:ML:391:ARG:HE	28:O3:47:GLY:HA2	1.52	0.73
3:NF:135:LEU:HD21	3:NF:151:LEU:HD11	1.69	0.73
3:NF:143:THR:HG22	3:NF:147:MET:HE2	1.69	0.73
4:PC:84:ARG:NH2	37:YC:124:HIS:O	2.21	0.73
4:PC:220:GLU:HG2	4:PC:221:ARG:HG2	1.70	0.73
4:PI:25:CYS:HB2	4:PI:30:ILE:HB	1.71	0.73
3:QD:215:LEU:O	3:QD:276:ARG:NH1	2.21	0.73
3:RD:271:ALA:HA	3:RD:293:MET:HE1	1.71	0.73
3:SH:379:LYS:NZ	3:SH:383:GLU:OE2	2.22	0.73
4:TI:204:VAL:HG23	4:TI:302:MET:HG3	1.68	0.73
4:TM:30:ILE:HA	4:TM:36:MET:HE1	1.70	0.73
3:UD:322:SER:OG	3:UD:324:LYS:NZ	2.21	0.73
3:UL:48:ASN:O	3:UL:62:ARG:NH2	2.20	0.73
4:VA:338:LYS:HZ2	4:VA:340:THR:H	1.36	0.73
3:VD:12:CYS:HA	39:VD:501:GTP:HN22	1.53	0.73
3:VD:309:ARG:H	3:VD:372:THR:HG1	1.35	0.73
4:VG:204:VAL:HG23	4:VG:302:MET:HG3	1.70	0.73
3:WL:398:TYR:HB3	3:WL:403:MET:HB2	1.70	0.73
3:AD:278:SER:HA	3:AD:281:TYR:HB2	1.71	0.73
4:CI:108:TYR:O	4:CI:112:LYS:NZ	2.20	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CJ:316:VAL:HG22	3:CJ:352:ALA:HB3	1.70	0.73
4:CK:32:PRO:O	4:CK:85:GLN:NE2	2.22	0.73
4:DC:49:PHE:HB2	4:DC:53:PHE:HB2	1.69	0.73
4:DK:244:PHE:HB2	4:DK:356:ASN:HD21	1.53	0.73
3:FD:226:ASN:HA	3:FD:229:VAL:HG12	1.70	0.73
4:FE:370:LYS:HD3	14:G5:709:ALA:HA	1.71	0.73
3:FJ:141:GLY:HA3	39:FJ:501:GTP:H5"	1.71	0.73
14:G4:566:PHE:CD1	14:G4:585:ILE:HD12	2.23	0.73
3:GF:385:PHE:HA	3:GF:388:MET:HE2	1.70	0.73
4:HG:115:VAL:HG11	4:HG:152:LEU:HD22	1.69	0.73
4:II:220:GLU:HG2	4:II:221:ARG:HG2	1.71	0.73
22:L2:114:ILE:HD11	4:LG:402:ARG:HH12	1.53	0.73
22:L2:129:ARG:NH1	4:LG:92:LEU:O	2.20	0.73
22:L2:163:GLU:HA	22:L2:167:LYS:HD3	1.70	0.73
4:MK:12:ALA:HB2	39:MK:501:GTP:H5"	1.69	0.73
3:ML:132:GLY:HA2	3:ML:162:ARG:HB3	1.70	0.73
3:NB:322:SER:OG	3:NB:324:LYS:NZ	2.22	0.73
3:NH:323:MET:SD	3:NH:323:MET:N	2.62	0.73
3:OL:66:VAL:HG11	3:OL:147:MET:HE3	1.71	0.73
3:OL:412:GLU:OE1	3:OL:416:ASN:ND2	2.22	0.73
4:PK:9:VAL:HG11	4:PK:150:ALA:HB2	1.71	0.73
4:QI:172:TYR:HB2	4:QI:203:MET:HB2	1.71	0.73
3:RH:426:GLN:NE2	3:RH:427:ASP:OD2	2.22	0.73
4:RI:107:HIS:HA	4:RI:152:LEU:HD23	1.70	0.73
3:SB:182:PRO:HB2	3:SB:388:MET:HE1	1.68	0.73
3:UJ:4:ILE:HD11	3:UJ:131:GLN:HB2	1.69	0.73
4:VA:101:ASN:HA	4:VA:144:GLY:HA2	1.71	0.73
4:VI:49:PHE:HB2	4:VI:53:PHE:HB2	1.71	0.73
4:VK:12:ALA:HB2	39:VK:501:GTP:H5"	1.70	0.73
4:WC:220:GLU:HG2	4:WC:221:ARG:HG2	1.71	0.73
4:WG:338:LYS:HZ2	4:WG:340:THR:H	1.34	0.73
35:XK:70:GLU:HB2	35:XK:77:LYS:HG3	1.71	0.73
35:XK:182:ASN:ND2	35:XK:231:MET:O	2.21	0.73
2:A4:31:ARG:HG3	5:B2:55:TRP:HZ3	1.54	0.73
3:AL:246:LEU:HB2	3:AL:352:ALA:HB1	1.68	0.73
4:BC:203:MET:HE1	4:BC:267:PHE:HB3	1.69	0.73
3:BD:309:ARG:HE	3:BD:426:GLN:HE21	1.34	0.73
3:CB:376:GLU:HA	3:CB:379:LYS:HE3	1.71	0.73
4:CC:32:PRO:O	4:CC:85:GLN:NE2	2.21	0.73
11:F1:231:LYS:HA	11:F1:234:LYS:HD2	1.71	0.73
11:F1:393:GLN:NE2	11:F2:280:PHE:O	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FJ:347:ASN:O	3:FJ:350:LYS:NZ	2.22	0.73
14:G4:644:TYR:O	14:G4:647:ARG:NH2	2.21	0.73
4:GC:25:CYS:HB2	4:GC:30:ILE:HB	1.71	0.73
4:HG:54:SER:HB2	4:HG:62:VAL:HB	1.68	0.73
4:IA:261:PRO:HA	3:IB:394:PHE:HE1	1.51	0.73
4:IG:108:TYR:O	4:IG:112:LYS:NZ	2.20	0.73
3:JD:141:GLY:HA3	39:JD:501:GTP:H5"	1.69	0.73
4:KC:9:VAL:HG11	4:KC:150:ALA:HB2	1.71	0.73
3:KD:68:LEU:HD12	3:KD:97:ALA:HB2	1.70	0.73
4:KK:101:ASN:O	4:KK:186:ASN:ND2	2.22	0.73
22:L2:200:LEU:HD21	22:L2:237:LEU:HB3	1.70	0.73
3:LL:398:TYR:HB3	3:LL:403:MET:HB3	1.70	0.73
4:MC:220:GLU:HG2	4:MC:221:ARG:HG2	1.70	0.73
29:P1:50:GLN:HG3	29:P1:57:GLN:HG2	1.70	0.73
3:PD:344:TRP:CZ3	4:PE:401:LYS:HD2	2.23	0.73
3:QD:246:LEU:HB2	3:QD:352:ALA:HB1	1.70	0.73
4:QI:220:GLU:HG2	4:QI:221:ARG:HG2	1.69	0.73
3:RJ:46:ARG:HH22	4:RK:73:THR:HA	1.52	0.73
3:TF:278:SER:HA	3:TF:281:TYR:HB2	1.71	0.73
3:TH:250:LEU:O	3:TH:254:ALA:N	2.22	0.73
4:TK:152:LEU:HG	4:TK:156:ARG:HH22	1.53	0.73
3:UH:372:THR:HB	3:UH:375:GLN:HE22	1.53	0.73
35:XJ:178:LEU:HD21	35:XJ:228:ILE:HG12	1.70	0.73
2:A1:363:LYS:HD2	14:G4:182:GLY:HA3	1.71	0.73
2:A2:333:ALA:H	2:A3:66:ARG:HH22	1.32	0.73
2:A3:269:LYS:HA	2:A3:272:LYS:HE3	1.69	0.73
5:B8:82:LEU:HA	5:B8:85:LEU:HD12	1.70	0.73
3:BL:278:SER:HA	3:BL:281:TYR:HB2	1.70	0.73
4:DI:358:GLN:NE2	4:DI:359:PRO:O	2.22	0.73
9:E:467:LEU:HD21	4:IC:370:LYS:HB2	1.70	0.73
11:F3:302:ASP:O	11:F3:306:HIS:ND1	2.21	0.73
13:G1:243:LEU:HB3	13:G1:266:TYR:H	1.53	0.73
14:G6:81:PHE:HB2	14:G6:104:ILE:HB	1.70	0.73
3:GJ:194:GLU:OE1	3:GJ:195:ASN:ND2	2.22	0.73
3:ID:141:GLY:HA3	39:ID:501:GTP:H5"	1.69	0.73
4:II:419:SER:HA	4:II:422:ARG:HE	1.53	0.73
4:JC:49:PHE:HB2	4:JC:53:PHE:HB2	1.71	0.73
4:JI:89:PRO:HD2	4:KI:280:LYS:HZ3	1.52	0.73
21:K2:187:LYS:HG3	21:K2:188:CYS:H	1.54	0.73
22:L2:220:SER:HA	4:VE:44:GLY:H	1.53	0.73
3:LJ:423:GLN:HB3	24:M3:84:LEU:HD11	1.68	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MD:334:GLN:O	3:MD:338:SER:OG	2.05	0.73
3:MJ:322:SER:HB3	4:MK:221:ARG:HH11	1.54	0.73
4:NK:207:GLU:HB2	4:NK:304:LYS:HZ1	1.52	0.73
4:OC:203:MET:HE1	4:OC:267:PHE:HB3	1.69	0.73
3:QB:173:PRO:O	3:QB:380:ARG:NH2	2.22	0.73
3:SH:216:LYS:O	3:SH:276:ARG:NH2	2.21	0.73
4:UA:25:CYS:HB2	4:UA:30:ILE:HB	1.69	0.73
3:WH:344:TRP:O	4:WI:401:LYS:NZ	2.21	0.73
37:YA:14:LYS:O	37:YA:18:PHE:N	2.22	0.73
37:YO:80:CYS:HA	37:YO:83:PHE:HD2	1.54	0.73
3:AD:316:VAL:HG22	3:AD:352:ALA:HB3	1.69	0.73
6:C:292:MET:HA	6:C:327:VAL:HA	1.71	0.73
4:CE:32:PRO:O	4:CE:85:GLN:NE2	2.19	0.73
3:DL:60:VAL:HG23	3:DL:86:ARG:HH11	1.53	0.73
10:E2:170:LEU:HD23	10:E2:175:ARG:HB3	1.70	0.73
4:FC:108:TYR:O	4:FC:112:LYS:NZ	2.19	0.73
4:FE:49:PHE:HB2	4:FE:53:PHE:HB2	1.70	0.73
4:FI:12:ALA:HB2	39:FI:501:GTP:H5"	1.71	0.73
4:FK:11:GLN:HB2	4:FK:74:VAL:HG21	1.71	0.73
4:GI:358:GLN:NE2	4:GI:359:PRO:O	2.21	0.73
4:II:144:GLY:N	39:II:501:GTP:O2B	2.21	0.73
4:JI:220:GLU:HG2	4:JI:221:ARG:HG2	1.71	0.73
3:LH:132:GLY:HA2	3:LH:162:ARG:HB3	1.70	0.73
3:LH:216:LYS:O	3:LH:276:ARG:NH2	2.21	0.73
3:MJ:278:SER:HA	3:MJ:281:TYR:HB2	1.70	0.73
3:MJ:325:GLU:OE1	4:MK:221:ARG:NH1	2.21	0.73
3:ML:417:ASP:OD2	30:Q3:1455:ARG:NH2	2.21	0.73
3:NJ:247:ASN:HB3	3:NJ:252:LYS:HG2	1.71	0.73
4:OE:101:ASN:HA	4:OE:144:GLY:HA2	1.71	0.73
3:PF:322:SER:OG	3:PF:324:LYS:NZ	2.22	0.73
3:QD:322:SER:OG	3:QD:324:LYS:NZ	2.22	0.73
3:RD:419:VAL:O	3:RD:423:GLN:NE2	2.20	0.73
3:SH:278:SER:HA	3:SH:281:TYR:HB2	1.70	0.73
4:SM:15:GLN:OE1	39:SM:501:GTP:N1	2.22	0.73
4:TE:204:VAL:HG23	4:TE:302:MET:HG3	1.71	0.73
4:UG:1:MET:SD	4:UG:2:ARG:N	2.61	0.73
4:UG:68:VAL:HA	4:UG:93:ILE:HB	1.71	0.73
4:UG:88:HIS:HB3	4:UG:91:GLN:HB2	1.70	0.73
4:UK:108:TYR:O	4:UK:112:LYS:NZ	2.20	0.73
4:VE:25:CYS:HB2	4:VE:30:ILE:HB	1.71	0.73
34:XF:102:ARG:HH11	34:XF:117:PHE:HD2	1.35	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:Z:259:ILE:HG22	36:Z:263:ARG:HE	1.53	0.73
2:A3:162:ARG:HE	13:G2:166:LYS:NZ	1.87	0.73
3:BJ:46:ARG:HH12	4:BK:73:THR:HG23	1.53	0.73
3:CB:246:LEU:HB2	3:CB:352:ALA:HB1	1.70	0.73
3:CF:2:ARG:NH2	4:CG:97:GLU:OE2	2.20	0.73
3:CH:70:PRO:HA	3:CH:73:MET:HE2	1.70	0.73
3:CH:286:VAL:HG21	3:CH:325:GLU:HG3	1.71	0.73
7:Cb:403:ARG:HE	7:Cb:417:GLN:HE21	1.35	0.73
4:DA:83:TYR:HB3	4:DA:86:LEU:HD12	1.71	0.73
4:DA:89:PRO:HD2	4:EA:280:LYS:HZ3	1.53	0.73
10:E2:174:GLN:O	10:E2:175:ARG:HG2	1.89	0.73
4:EE:21:TRP:HA	4:EE:24:TYR:HB2	1.71	0.73
4:EG:271:THR:HA	4:EG:302:MET:HE1	1.69	0.73
11:F6:302:ASP:O	11:F6:306:HIS:ND1	2.20	0.73
4:FC:338:LYS:HZ2	4:FC:340:THR:H	1.36	0.73
3:FF:101:TRP:HB2	3:FF:184:ASN:HD22	1.52	0.73
3:GF:175:VAL:HG12	3:GF:177:ASP:H	1.51	0.73
3:HL:387:ALA:O	3:HL:390:ARG:NH1	2.20	0.73
4:IC:220:GLU:HG2	4:IC:221:ARG:HG2	1.71	0.73
3:IH:347:ASN:O	3:IH:350:LYS:NZ	2.21	0.73
4:IK:208:ALA:H	4:IK:304:LYS:HZ1	1.37	0.73
3:JH:48:ASN:O	3:JH:62:ARG:NH2	2.20	0.73
21:K4:34:LEU:HB3	21:K4:38:ARG:HH12	1.53	0.73
24:M1:64:MET:HA	24:M1:67:ARG:HB2	1.70	0.73
4:MI:338:LYS:HZ2	4:MI:340:THR:H	1.35	0.73
4:PK:220:GLU:HG2	4:PK:221:ARG:HG2	1.71	0.73
4:QM:220:GLU:HG2	4:QM:221:ARG:HG2	1.69	0.73
4:RK:25:CYS:HB2	4:RK:30:ILE:HB	1.71	0.73
4:SG:60:LYS:HE3	4:SG:86:LEU:HA	1.70	0.73
3:TB:216:LYS:O	3:TB:276:ARG:NH2	2.22	0.73
3:TD:132:GLY:HA2	3:TD:162:ARG:HB3	1.71	0.73
3:TF:262:ARG:HD2	3:TF:421:GLU:HG3	1.70	0.73
4:UC:185:TYR:OH	4:UC:403:ALA:O	2.07	0.73
4:VG:261:PRO:HA	3:VH:394:PHE:HE1	1.53	0.73
3:WD:4:ILE:HD11	3:WD:131:GLN:HB2	1.70	0.73
3:WJ:284:LEU:HD23	3:WJ:363:MET:HE2	1.70	0.73
4:AI:216:ASN:HB2	4:AI:276:ILE:HD12	1.71	0.72
4:AK:88:HIS:HB3	4:AK:91:GLN:HB2	1.71	0.72
5:B3:303:ASP:OD1	5:B3:306:ARG:NH2	2.22	0.72
4:CC:244:PHE:HB2	4:CC:356:ASN:HD21	1.53	0.72
3:DD:211:CYS:HA	3:DD:215:LEU:HB2	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DD:252:LYS:HD2	4:DE:100:ALA:HA	1.71	0.72
4:DK:358:GLN:NE2	4:DK:359:PRO:O	2.22	0.72
3:EB:392:LYS:HB2	3:EB:395:LEU:HD13	1.71	0.72
4:EC:285:GLN:HE22	4:EC:287:SER:HB3	1.53	0.72
3:EH:372:THR:HG21	3:EH:426:GLN:HG3	1.71	0.72
39:GL:501:GTP:O3G	39:GL:501:GTP:O3'	2.07	0.72
3:HB:132:GLY:HA3	3:HB:163:ILE:HG12	1.71	0.72
3:HB:322:SER:OG	3:HB:324:LYS:NZ	2.22	0.72
3:HD:246:LEU:HB2	3:HD:352:ALA:HB1	1.70	0.72
4:JC:301:GLN:HG3	4:JC:303:VAL:H	1.54	0.72
4:JG:46:ASP:OD1	4:JG:50:ASN:ND2	2.22	0.72
4:JK:49:PHE:HB2	4:JK:53:PHE:HB2	1.70	0.72
21:K2:123:ALA:O	21:K2:127:HIS:ND1	2.21	0.72
3:KD:48:ASN:O	3:KD:62:ARG:NH2	2.22	0.72
4:LC:144:GLY:N	39:LC:501:GTP:O2B	2.22	0.72
3:LF:70:PRO:HA	3:LF:73:MET:HE2	1.71	0.72
4:LI:220:GLU:HG2	4:LI:221:ARG:HG2	1.71	0.72
23:M:61:ILE:HG23	23:M:63:GLU:H	1.54	0.72
4:ME:271:THR:HA	4:ME:302:MET:HE1	1.70	0.72
39:MJ:501:GTP:O3G	39:MJ:501:GTP:O3'	2.05	0.72
4:NK:301:GLN:HG3	4:NK:303:VAL:H	1.52	0.72
4:NK:419:SER:HA	4:NK:422:ARG:HE	1.53	0.72
27:P:321:LEU:HB3	27:P:325:ARG:HH21	1.53	0.72
4:PG:220:GLU:HG2	4:PG:221:ARG:HG2	1.69	0.72
3:PL:327:ASP:HA	3:PL:330:MET:HE3	1.71	0.72
3:QH:322:SER:OG	3:QH:324:LYS:NZ	2.21	0.72
3:UJ:48:ASN:O	3:UJ:62:ARG:NH2	2.21	0.72
4:WA:54:SER:HB2	4:WA:62:VAL:HB	1.71	0.72
34:XA:115:LYS:HD3	34:XA:117:PHE:H	1.54	0.72
34:XE:149:ILE:HG22	34:XE:150:GLU:HG2	1.71	0.72
34:XG:94:LEU:HB2	34:XG:152:LEU:HD11	1.71	0.72
37:YL:61:THR:HG22	37:YL:64:ARG:HH21	1.53	0.72
37:YR:84:GLU:OE2	37:YR:101:LYS:NZ	2.22	0.72
2:A2:269:LYS:HA	2:A2:272:LYS:HE3	1.70	0.72
4:AE:101:ASN:HA	4:AE:144:GLY:HA2	1.69	0.72
5:B3:312:LYS:HE2	5:B4:200:SER:HA	1.71	0.72
5:B6:302:GLU:HA	5:B6:305:ARG:HE	1.52	0.72
3:BB:278:SER:HA	3:BB:281:TYR:HB2	1.71	0.72
4:BK:358:GLN:NE2	4:BK:359:PRO:O	2.22	0.72
7:C1:284:PHE:CE1	7:C2:401:ASP:HB3	2.23	0.72
4:CC:88:HIS:HB3	4:CC:91:GLN:HB2	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CK:54:SER:HB2	4:CK:62:VAL:HB	1.71	0.72
3:DB:322:SER:OG	3:DB:324:LYS:NZ	2.22	0.72
4:DC:358:GLN:NE2	4:DC:359:PRO:O	2.22	0.72
4:EC:388:TRP:HB3	4:EC:425:LEU:HD11	1.71	0.72
3:ED:320:ARG:H	3:ED:363:MET:HE1	1.53	0.72
4:FG:12:ALA:HB2	39:FG:501:GTP:H5"	1.71	0.72
3:FJ:322:SER:OG	3:FJ:324:LYS:NZ	2.22	0.72
13:G3:448:MET:HG3	13:G3:471:LYS:HG3	1.71	0.72
4:GK:54:SER:HB2	4:GK:62:VAL:HB	1.70	0.72
3:HJ:401:GLU:HB3	3:HJ:403:MET:HE1	1.71	0.72
4:HK:271:THR:HA	4:HK:302:MET:HE1	1.70	0.72
4:IA:215:ARG:NH1	4:IA:299:ALA:O	2.22	0.72
4:IC:12:ALA:HB2	39:IC:501:GTP:H5"	1.70	0.72
3:ID:55:THR:O	3:ID:58:LYS:NZ	2.21	0.72
3:ID:278:SER:HA	3:ID:281:TYR:HB2	1.70	0.72
4:IE:203:MET:HE1	4:IE:267:PHE:HB3	1.71	0.72
3:IH:246:LEU:HB2	3:IH:352:ALA:HB1	1.71	0.72
4:II:226:ASN:OD1	4:II:229:ARG:NH2	2.23	0.72
3:JB:372:THR:HB	3:JB:375:GLN:HE22	1.53	0.72
4:JC:358:GLN:NE2	4:JC:359:PRO:O	2.22	0.72
3:JF:412:GLU:OE1	3:JF:416:ASN:ND2	2.22	0.72
3:JH:187:LEU:O	3:JH:191:GLN:NE2	2.22	0.72
3:JJ:316:VAL:HG22	3:JJ:352:ALA:HB3	1.70	0.72
4:KA:205:ASP:OD2	4:KA:304:LYS:NZ	2.18	0.72
4:KA:317:MET:HE1	4:KA:351:PHE:HB2	1.71	0.72
22:L1:145:TYR:OH	4:MC:393:HIS:NE2	2.19	0.72
3:LB:4:ILE:HD11	3:LB:131:GLN:HB2	1.69	0.72
4:LG:406:HIS:HA	4:LG:409:VAL:HG22	1.70	0.72
4:MM:220:GLU:HG2	4:MM:221:ARG:HG2	1.70	0.72
4:MM:338:LYS:HZ2	4:MM:340:THR:H	1.37	0.72
3:NB:48:ASN:O	3:NB:62:ARG:NH2	2.22	0.72
3:NF:247:ASN:HB3	3:NF:252:LYS:HG2	1.69	0.72
28:O2:84:ARG:HH21	28:O2:85:THR:HG23	1.54	0.72
29:P2:40:ILE:HG12	29:P2:49:ILE:HG12	1.70	0.72
4:PG:244:PHE:HB2	4:PG:356:ASN:HD21	1.53	0.72
3:PJ:16:ILE:HD13	3:PJ:226:ASN:HD22	1.54	0.72
39:QD:502:GTP:H5"	4:QE:12:ALA:HB2	1.72	0.72
3:QH:258:VAL:HB	4:QI:407:TRP:HZ2	1.53	0.72
4:QI:208:ALA:H	4:QI:304:LYS:HZ1	1.37	0.72
4:QK:244:PHE:HB2	4:QK:356:ASN:HD21	1.53	0.72
4:SI:108:TYR:O	4:SI:112:LYS:NZ	2.21	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UB:322:SER:OG	3:UB:324:LYS:NZ	2.22	0.72
4:UG:25:CYS:HB2	4:UG:30:ILE:HB	1.69	0.72
4:UG:358:GLN:NE2	4:UG:359:PRO:O	2.20	0.72
4:UI:220:GLU:HG2	4:UI:221:ARG:HG2	1.70	0.72
3:VB:278:SER:HA	3:VB:281:TYR:HB2	1.71	0.72
4:WG:101:ASN:HA	4:WG:144:GLY:HA2	1.70	0.72
37:YD:14:LYS:O	37:YD:18:PHE:N	2.21	0.72
3:AF:247:ASN:HB3	3:AF:252:LYS:HG2	1.71	0.72
5:B3:128:VAL:HG12	5:B4:11:ARG:HA	1.70	0.72
3:BB:247:ASN:HB3	3:BB:252:LYS:HG2	1.70	0.72
4:BE:220:GLU:HG2	4:BE:221:ARG:HG2	1.71	0.72
4:BM:224:TYR:HA	4:BM:227:LEU:H	1.53	0.72
8:D8:429:LYS:NZ	8:D8:430:CYS:SG	2.63	0.72
8:D9:297:CYS:O	8:D9:301:ASN:ND2	2.22	0.72
4:DA:101:ASN:HA	4:DA:144:GLY:HA2	1.69	0.72
4:EE:12:ALA:HB1	39:EE:501:GTP:C2	2.24	0.72
11:F2:232:LEU:HD23	11:F2:235:ARG:HH22	1.53	0.72
3:FD:316:VAL:HG22	3:FD:352:ALA:HB3	1.71	0.72
4:FK:107:HIS:CD2	4:FK:152:LEU:HB2	2.24	0.72
11:Fb:271:ARG:HE	11:Fb:272:SER:H	1.36	0.72
16:I:184:ARG:HB3	16:I:194:LYS:HE3	1.71	0.72
4:JC:338:LYS:HZ2	4:JC:340:THR:H	1.37	0.72
3:JD:48:ASN:O	3:JD:62:ARG:NH2	2.20	0.72
3:JH:410:GLU:OE2	3:NH:306:ARG:NH2	2.22	0.72
21:K2:116:ASP:O	21:K2:120:GLN:NE2	2.22	0.72
4:KA:338:LYS:HZ2	4:KA:340:THR:H	1.37	0.72
4:LE:391:LEU:HD23	4:LE:394:LYS:HZ1	1.53	0.72
4:MM:52:PHE:HZ	4:MM:239:THR:HB	1.54	0.72
3:OF:135:LEU:HD21	3:OF:151:LEU:HD11	1.70	0.72
4:PC:49:PHE:HB2	4:PC:53:PHE:HB2	1.70	0.72
3:QJ:271:ALA:HA	3:QJ:293:MET:HE1	1.71	0.72
3:RD:278:SER:HA	3:RD:281:TYR:HB2	1.71	0.72
4:SC:97:GLU:OE2	4:SC:105:ARG:NH2	2.22	0.72
3:SH:412:GLU:OE1	3:SH:416:ASN:ND2	2.22	0.72
3:SJ:48:ASN:O	3:SJ:62:ARG:NH2	2.22	0.72
3:SJ:322:SER:OG	3:SJ:324:LYS:NZ	2.22	0.72
3:TD:143:THR:HG22	3:TD:147:MET:HE2	1.69	0.72
4:TG:54:SER:HB2	4:TG:62:VAL:HB	1.72	0.72
3:UF:273:LEU:H	3:UF:292:GLN:HE22	1.33	0.72
4:UG:434:GLU:OE2	3:UH:391:ARG:NH2	2.19	0.72
4:WC:25:CYS:HB2	4:WC:30:ILE:HB	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:12:ALA:HB1	39:AE:501:GTP:C2	2.25	0.72
3:AF:54:ALA:HB3	3:AF:58:LYS:HB3	1.71	0.72
6:C:265:PRO:HG2	6:C:321:LEU:HA	1.71	0.72
4:DK:25:CYS:HB2	4:DK:30:ILE:HB	1.70	0.72
4:DK:388:TRP:HB3	4:DK:425:LEU:HD11	1.71	0.72
3:EF:247:ASN:HB3	3:EF:252:LYS:HG2	1.72	0.72
4:EG:338:LYS:HZ2	4:EG:340:THR:H	1.37	0.72
3:FL:2:ARG:NH2	3:FL:130:LEU:O	2.22	0.72
12:G:205:TRP:HE1	3:GJ:279:GLN:HB3	1.55	0.72
3:GL:376:GLU:HA	3:GL:379:LYS:HE3	1.72	0.72
15:H3:290:PRO:O	15:H3:315:ARG:NH1	2.23	0.72
3:JB:13:GLY:HA2	3:JB:16:ILE:HB	1.71	0.72
4:JK:371:VAL:HG11	4:JK:374:ALA:HB2	1.72	0.72
4:KC:226:ASN:HD22	4:KC:229:ARG:HH12	1.34	0.72
4:KK:358:GLN:NE2	4:KK:359:PRO:O	2.21	0.72
3:MF:309:ARG:H	3:MF:372:THR:HG1	1.37	0.72
3:MJ:28:HIS:HD2	3:MJ:43:GLN:HB2	1.55	0.72
29:P3:416:HIS:HD2	29:P3:420:VAL:HG22	1.55	0.72
4:PM:205:ASP:OD2	4:PM:304:LYS:NZ	2.21	0.72
30:Q1:1414:LEU:O	30:Q1:1416:ARG:N	2.22	0.72
30:Q2:1509:ASP:OD1	30:Q2:1512:ARG:NH2	2.23	0.72
30:Q3:1414:LEU:O	30:Q3:1416:ARG:N	2.22	0.72
4:QM:9:VAL:HG11	4:QM:150:ALA:HB2	1.70	0.72
3:RL:398:TYR:HB3	3:RL:403:MET:HB2	1.72	0.72
4:TE:104:ALA:HB1	4:TE:413:MET:HE3	1.71	0.72
3:TL:324:LYS:HB3	4:TM:210:TYR:HE2	1.54	0.72
4:UC:108:TYR:O	4:UC:112:LYS:NZ	2.22	0.72
4:UI:262:TYR:OH	3:UJ:391:ARG:O	2.06	0.72
4:VC:419:SER:HA	4:VC:422:ARG:HE	1.54	0.72
4:VK:216:ASN:HB2	4:VK:276:ILE:HD12	1.70	0.72
3:WD:398:TYR:HB3	3:WD:403:MET:HB2	1.72	0.72
4:WK:52:PHE:HZ	4:WK:239:THR:HB	1.55	0.72
4:AM:220:GLU:HG2	4:AM:221:ARG:HG2	1.70	0.72
3:BH:13:GLY:HA2	3:BH:16:ILE:HB	1.71	0.72
4:BM:224:TYR:HB3	4:BM:227:LEU:HB2	1.71	0.72
4:CC:6:SER:HA	4:CC:136:LEU:HB2	1.72	0.72
4:CE:271:THR:HA	4:CE:302:MET:HE1	1.72	0.72
3:CF:322:SER:OG	3:CF:324:LYS:NZ	2.22	0.72
8:D4:385:ASN:HB3	8:D4:389:ARG:HH12	1.54	0.72
9:E:582:ASN:O	9:E:586:LEU:N	2.17	0.72
3:EL:302:ALA:HB1	3:EL:377:LEU:HD11	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:F8:375:ILE:HD13	11:F8:441:LEU:HD11	1.68	0.72
4:FG:358:GLN:NE2	4:FG:359:PRO:O	2.21	0.72
11:Fk:243:ASN:ND2	11:Fk:310:MET:SD	2.63	0.72
3:HB:173:PRO:O	3:HB:380:ARG:NH2	2.23	0.72
3:HF:7:LEU:HD13	3:HF:64:VAL:HB	1.71	0.72
4:HI:105:ARG:NH1	4:HI:109:THR:OG1	2.22	0.72
4:HK:101:ASN:HA	4:HK:144:GLY:HA2	1.70	0.72
4:HK:220:GLU:HG2	4:HK:221:ARG:HG2	1.71	0.72
3:JJ:215:LEU:O	3:JJ:276:ARG:NH1	2.23	0.72
22:L2:158:ILE:O	22:L2:162:ASN:N	2.22	0.72
3:LD:279:GLN:HB2	27:Q:74:LYS:HD2	1.72	0.72
3:LJ:423:GLN:O	3:LJ:427:ASP:N	2.22	0.72
4:MC:9:VAL:HG11	4:MC:150:ALA:HB2	1.72	0.72
3:MD:322:SER:OG	3:MD:324:LYS:NZ	2.22	0.72
4:MK:339:ARG:HB3	28:O3:107:ASN:HA	1.72	0.72
3:NH:246:LEU:HB2	3:NH:352:ALA:HB1	1.71	0.72
3:NL:100:ASN:HB3	3:NL:103:LYS:HB2	1.69	0.72
27:O:24:CYS:SG	27:O:28:ARG:NH1	2.63	0.72
4:PE:30:ILE:HA	4:PE:36:MET:HE1	1.71	0.72
4:PE:220:GLU:HG2	4:PE:221:ARG:HG2	1.70	0.72
3:QJ:48:ASN:O	3:QJ:62:ARG:NH2	2.22	0.72
4:TC:9:VAL:HG11	4:TC:150:ALA:HB2	1.70	0.72
3:TF:48:ASN:O	3:TF:62:ARG:NH2	2.22	0.72
3:UD:132:GLY:HA2	3:UD:162:ARG:HB3	1.72	0.72
4:UK:262:TYR:OH	3:UL:391:ARG:O	2.07	0.72
4:WK:53:PHE:O	4:WK:64:ARG:NH1	2.22	0.72
34:XD:106:SER:HB2	34:XD:109:GLN:HG2	1.72	0.72
37:YI:41:ARG:HH12	37:YI:45:SER:H	1.37	0.72
3:AF:412:GLU:OE1	3:AF:416:ASN:ND2	2.21	0.72
4:AG:25:CYS:HB2	4:AG:30:ILE:HB	1.72	0.72
4:BE:25:CYS:HB2	4:BE:30:ILE:HB	1.71	0.72
7:C3:145:ASN:OD1	7:C4:419:ARG:NH1	2.22	0.72
3:CF:350:LYS:HE3	4:CG:181:VAL:H	1.54	0.72
4:EI:9:VAL:HG21	4:EI:150:ALA:HB2	1.71	0.72
4:FI:49:PHE:HB2	4:FI:53:PHE:HB2	1.71	0.72
3:FJ:316:VAL:HG22	3:FJ:352:ALA:HB3	1.71	0.72
11:Fl:447:THR:HA	11:Fl:450:ARG:HE	1.53	0.72
14:G5:201:ARG:O	14:G5:205:GLU:N	2.18	0.72
3:GB:324:LYS:HD3	4:GC:210:TYR:HE2	1.54	0.72
4:GC:220:GLU:HG2	4:GC:221:ARG:HG2	1.71	0.72
4:GC:338:LYS:HZ2	4:GC:340:THR:H	1.36	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GH:278:SER:HA	3:GH:281:TYR:HB2	1.70	0.72
3:HD:132:GLY:HA2	3:HD:162:ARG:HB3	1.70	0.72
3:ID:13:GLY:HA2	3:ID:16:ILE:HG12	1.71	0.72
3:IJ:45:GLU:HG3	3:IJ:46:ARG:HG2	1.70	0.72
18:J:176:MET:HE2	4:KI:29:GLY:H	1.54	0.72
4:JI:204:VAL:HG23	4:JI:302:MET:HG3	1.72	0.72
4:KC:243:ARG:HH12	20:L:257:SER:HB2	1.55	0.72
3:LJ:324:LYS:NZ	4:LK:222:PRO:O	2.15	0.72
24:M1:44:ARG:HH22	24:M1:96:LEU:HD12	1.53	0.72
3:MF:216:LYS:O	3:MF:276:ARG:NH2	2.23	0.72
4:NC:108:TYR:O	4:NC:112:LYS:NZ	2.20	0.72
4:QM:108:TYR:O	4:QM:112:LYS:NZ	2.21	0.72
3:RJ:289:LEU:HD22	3:RJ:363:MET:HE2	1.71	0.72
4:SI:358:GLN:NE2	4:SI:359:PRO:O	2.22	0.72
3:TB:271:ALA:HA	3:TB:293:MET:HE1	1.72	0.72
3:VH:379:LYS:NZ	3:VH:383:GLU:OE2	2.23	0.72
34:XC:74:PRO:HD2	34:XC:169:ASP:HA	1.72	0.72
1:A:191:LEU:HD13	1:A:194:GLN:HE22	1.53	0.72
4:AE:419:SER:HA	4:AE:422:ARG:HE	1.53	0.72
4:BC:358:GLN:NE2	4:BC:359:PRO:O	2.21	0.72
3:BF:322:SER:OG	3:BF:324:LYS:NZ	2.23	0.72
3:BJ:143:THR:HG22	3:BJ:147:MET:HE2	1.72	0.72
7:C4:236:HIS:HA	7:C4:239:LYS:HD2	1.71	0.72
4:CG:6:SER:HA	4:CG:136:LEU:HB3	1.71	0.72
3:CL:278:SER:HA	3:CL:281:TYR:HB2	1.72	0.72
8:D9:376:ARG:HH22	8:Da:98:ASP:HB3	1.55	0.72
4:DG:338:LYS:HZ2	4:DG:340:THR:H	1.38	0.72
3:DH:278:SER:HA	3:DH:281:TYR:HB2	1.70	0.72
9:E:568:VAL:HG13	9:E:625:LEU:HD23	1.72	0.72
11:F2:112:TRP:HE1	11:F2:115:ARG:HH21	1.37	0.72
11:F3:193:GLU:HB2	11:F3:472:MET:HE1	1.72	0.72
3:FJ:54:ALA:HB3	3:FJ:58:LYS:HB2	1.69	0.72
3:FL:309:ARG:HE	3:FL:426:GLN:HE21	1.36	0.72
3:GH:156:ARG:NH1	3:GH:194:GLU:OE1	2.22	0.72
4:GI:25:CYS:HB2	4:GI:30:ILE:HB	1.72	0.72
3:GJ:250:LEU:O	3:GJ:254:ALA:N	2.19	0.72
3:GL:4:ILE:HD11	3:GL:131:GLN:HB2	1.72	0.72
15:H3:214:GLN:OE1	15:H3:215:ARG:NH1	2.22	0.72
4:HE:236:SER:O	4:HE:243:ARG:NH2	2.23	0.72
3:IF:3:GLU:HG2	3:IF:130:LEU:HD23	1.69	0.72
4:JE:358:GLN:NE2	4:JE:359:PRO:O	2.21	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JJ:278:SER:HA	3:JJ:281:TYR:HB2	1.70	0.72
20:K:23:GLU:HB3	20:K:27:ARG:NH1	2.05	0.72
4:KE:208:ALA:H	4:KE:304:LYS:HZ1	1.36	0.72
3:LB:322:SER:OG	3:LB:324:LYS:NZ	2.22	0.72
4:ME:338:LYS:HZ2	4:ME:340:THR:H	1.37	0.72
4:MG:9:VAL:HG11	4:MG:150:ALA:HB2	1.70	0.72
4:MG:278:ALA:HB3	27:P:224:LEU:HD11	1.72	0.72
3:NB:132:GLY:HA2	3:NB:162:ARG:HB3	1.72	0.72
3:NH:322:SER:OG	3:NH:324:LYS:NZ	2.23	0.72
4:OG:271:THR:HB	4:OG:377:MET:HB3	1.70	0.72
4:QE:172:TYR:N	4:QE:204:VAL:O	2.22	0.72
3:RD:4:ILE:HD11	3:RD:131:GLN:HB2	1.71	0.72
3:SB:48:ASN:O	3:SB:62:ARG:NH2	2.22	0.72
4:SM:220:GLU:HG2	4:SM:221:ARG:HG2	1.69	0.72
3:TJ:385:PHE:HA	3:TJ:388:MET:HE2	1.71	0.72
4:VC:338:LYS:HZ2	4:VC:340:THR:H	1.37	0.72
3:WB:322:SER:OG	3:WB:324:LYS:NZ	2.23	0.72
4:WC:244:PHE:HB2	4:WC:356:ASN:HD21	1.55	0.72
5:B7:293:LEU:HD22	5:B7:363:LEU:HD13	1.72	0.72
7:Cc:111:ASN:OD1	7:Cc:114:ARG:NH2	2.22	0.72
4:DA:54:SER:HB2	4:DA:62:VAL:HB	1.70	0.72
4:DK:54:SER:HB2	4:DK:62:VAL:HB	1.72	0.72
3:EH:253:LEU:HB3	3:EH:257:MET:HE1	1.70	0.72
4:EK:358:GLN:NE2	4:EK:359:PRO:O	2.23	0.72
4:GI:88:HIS:HB3	4:GI:91:GLN:HB3	1.71	0.72
4:HC:108:TYR:O	4:HC:112:LYS:NZ	2.19	0.72
3:HF:278:SER:HA	3:HF:281:TYR:HB2	1.71	0.72
3:IJ:46:ARG:HH22	4:IK:73:THR:HA	1.53	0.72
4:JC:108:TYR:O	4:JC:112:LYS:NZ	2.22	0.72
21:K3:187:LYS:HG3	21:K3:188:CYS:H	1.53	0.72
21:K4:144:GLN:HB2	21:K4:234:LEU:HD22	1.72	0.72
4:KG:9:VAL:HG11	4:KG:150:ALA:HB2	1.71	0.72
22:L2:119:LYS:HE3	4:LG:411:GLU:HA	1.70	0.72
3:NH:412:GLU:OE1	3:NH:416:ASN:ND2	2.22	0.72
4:OA:108:TYR:O	4:OA:112:LYS:NZ	2.21	0.72
3:OD:4:ILE:HD11	3:OD:131:GLN:HB2	1.71	0.72
4:OE:9:VAL:HG11	4:OE:150:ALA:HB2	1.72	0.72
3:OF:278:SER:HA	3:OF:281:TYR:HB2	1.72	0.72
3:PD:132:GLY:HA2	3:PD:162:ARG:HB3	1.71	0.72
3:PD:284:LEU:HD23	3:PD:363:MET:HE2	1.72	0.72
4:PG:50:ASN:O	4:PG:64:ARG:NH1	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:QD:501:GTP:O3G	39:QD:501:GTP:O3'	2.08	0.72
3:RD:215:LEU:O	3:RD:276:ARG:NH1	2.22	0.72
4:RE:220:GLU:HG2	4:RE:221:ARG:HG2	1.71	0.72
3:RF:426:GLN:NE2	3:RF:427:ASP:OD2	2.22	0.72
3:RH:278:SER:HA	3:RH:281:TYR:HB2	1.72	0.72
4:SI:54:SER:HB2	4:SI:62:VAL:HB	1.72	0.72
3:TJ:4:ILE:HD11	3:TJ:131:GLN:HB2	1.72	0.72
3:UJ:322:SER:OG	3:UJ:324:LYS:NZ	2.23	0.72
4:VC:108:TYR:O	4:VC:112:LYS:NZ	2.20	0.72
3:AJ:246:LEU:HB2	3:AJ:352:ALA:HB1	1.71	0.72
4:AM:358:GLN:NE2	4:AM:359:PRO:O	2.22	0.72
3:BD:8:GLN:HB2	3:BD:65:LEU:HA	1.72	0.72
4:BK:54:SER:HB2	4:BK:62:VAL:HB	1.72	0.72
7:C3:330:ILE:HD12	10:E2:184:ARG:HG3	1.72	0.72
4:CE:1:MET:SD	4:CE:2:ARG:N	2.63	0.72
7:Cc:433:THR:HB	7:Cc:437:ARG:NH1	2.04	0.72
8:D7:335:GLN:HB3	8:D8:78:ARG:NH2	2.05	0.72
3:DD:412:GLU:OE1	3:DD:416:ASN:ND2	2.23	0.72
4:DE:358:GLN:NE2	4:DE:359:PRO:O	2.22	0.72
3:DH:219:THR:OG1	13:G2:281:ARG:NH2	2.23	0.72
4:EA:12:ALA:HB2	39:EA:501:GTP:H5"	1.72	0.72
3:EH:101:TRP:HB2	3:EH:184:ASN:HD22	1.55	0.72
9:F:405:THR:OG1	9:F:408:THR:OG1	2.06	0.72
14:G4:33:ARG:NH1	3:MD:92:PHE:O	2.23	0.72
14:G6:59:VAL:O	14:G6:150:TYR:OH	2.07	0.72
3:GF:277:GLY:O	3:GF:280:GLN:NE2	2.22	0.72
16:I:194:LYS:HD3	4:KE:46:ASP:HB3	1.72	0.72
4:KK:1:MET:SD	4:KK:2:ARG:N	2.63	0.72
22:L3:48:THR:OG1	22:L3:49:MET:SD	2.47	0.72
4:LA:419:SER:HA	4:LA:422:ARG:HE	1.53	0.72
4:LC:12:ALA:HB2	39:LC:501:GTP:H5"	1.72	0.72
24:M1:46:SER:HB2	24:M1:94:GLU:HB2	1.70	0.72
26:N3:99:ILE:HG13	26:N3:100:GLU:H	1.53	0.72
3:OD:250:LEU:O	3:OD:254:ALA:N	2.22	0.72
29:P3:551:MET:HB3	29:P3:562:THR:HG22	1.70	0.72
4:PI:105:ARG:NH1	4:PI:109:THR:OG1	2.23	0.72
3:RB:48:ASN:O	3:RB:62:ARG:NH2	2.23	0.72
3:RF:247:ASN:HB3	3:RF:252:LYS:HG2	1.72	0.72
3:TD:60:VAL:HG23	3:TD:86:ARG:HH11	1.55	0.72
4:TE:220:GLU:HG2	4:TE:221:ARG:HG2	1.71	0.72
4:UE:316:CYS:HB3	4:UE:378:LEU:HB2	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:VE:12:ALA:HB1	39:VE:501:GTP:C2	2.25	0.72
34:XC:3:LYS:NZ	35:XJ:62:ARG:HA	2.04	0.72
34:XG:74:PRO:HD2	34:XG:169:ASP:HA	1.70	0.72
4:AC:205:ASP:OD2	4:AC:304:LYS:NZ	2.22	0.72
3:AJ:322:SER:OG	3:AJ:324:LYS:NZ	2.23	0.72
4:AM:32:PRO:O	4:AM:85:GLN:NE2	2.22	0.72
4:AM:216:ASN:HB2	4:AM:276:ILE:HD12	1.69	0.72
3:BF:48:ASN:O	3:BF:62:ARG:NH2	2.23	0.72
3:BL:372:THR:HG21	3:BL:426:GLN:HG3	1.69	0.72
6:C:63:ARG:HH21	3:ID:77:ARG:HB3	1.54	0.72
7:Cb:401:ASP:HB2	7:Cc:284:PHE:CZ	2.25	0.72
6:D:148:THR:HG22	6:D:150:LYS:H	1.55	0.72
8:D5:336:ILE:HG13	8:D5:340:LYS:HZ3	1.55	0.72
4:DC:172:TYR:HB2	4:DC:203:MET:HB2	1.70	0.72
3:DH:39:ASP:OD1	3:DH:43:GLN:NE2	2.23	0.72
3:DJ:372:THR:HG21	3:DJ:426:GLN:HG3	1.71	0.72
10:E2:172:LEU:O	10:E2:175:ARG:NH1	2.22	0.72
11:F5:327:THR:O	11:F5:331:GLN:NE2	2.23	0.72
4:GG:36:MET:HE3	4:GG:61:HIS:CE1	2.24	0.72
4:GG:101:ASN:HA	4:GG:144:GLY:HA2	1.71	0.72
15:H6:307:ALA:O	15:H6:311:GLU:N	2.18	0.72
4:HA:108:TYR:O	4:HA:112:LYS:NZ	2.20	0.72
4:IC:216:ASN:HB2	4:IC:276:ILE:HD12	1.71	0.72
4:IC:245:ASP:O	4:IC:356:ASN:ND2	2.23	0.72
3:IJ:45:GLU:OE1	32:T:266:LEU:N	2.23	0.72
19:J1:165:VAL:HG13	19:J1:178:ILE:HG12	1.72	0.72
4:KA:101:ASN:HA	4:KA:144:GLY:HA2	1.72	0.72
4:KG:358:GLN:NE2	4:KG:359:PRO:O	2.22	0.72
3:MJ:101:TRP:HB2	3:MJ:184:ASN:HD22	1.55	0.72
28:O2:11:GLU:OE1	28:O2:14:TYR:OH	2.08	0.72
39:OD:501:GTP:O3G	39:OD:501:GTP:O3'	2.06	0.72
3:TH:372:THR:HB	3:TH:375:GLN:HE22	1.54	0.72
4:VI:108:TYR:O	4:VI:112:LYS:NZ	2.20	0.72
4:VK:271:THR:HB	4:VK:377:MET:HB3	1.70	0.72
3:WJ:316:VAL:HG22	3:WJ:352:ALA:HB3	1.71	0.72
37:YV:15:TYR:O	37:YV:19:GLN:N	2.21	0.72
3:AH:324:LYS:NZ	4:AI:222:PRO:O	2.17	0.71
4:AK:25:CYS:HB2	4:AK:30:ILE:HB	1.71	0.71
4:BI:244:PHE:HB2	4:BI:356:ASN:HD21	1.54	0.71
7:C9:334:ASN:O	7:C9:338:ASN:ND2	2.19	0.71
4:CG:1:MET:SD	4:CG:2:ARG:N	2.63	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Cb:394:LYS:HG3	7:Cc:281:VAL:HG22	1.70	0.71
8:D3:307:ARG:NH1	8:D3:310:GLU:OE1	2.21	0.71
4:DE:25:CYS:HB2	4:DE:30:ILE:HB	1.71	0.71
4:EG:54:SER:HB2	4:EG:62:VAL:HB	1.70	0.71
13:G1:141:SER:OG	13:G1:145:GLN:NE2	2.23	0.71
13:G1:474:LYS:NZ	13:G1:489:ASP:OD2	2.23	0.71
13:G3:272:THR:HG22	13:G3:296:ARG:HG2	1.72	0.71
4:GG:192:HIS:HA	4:GG:195:LEU:HD23	1.72	0.71
3:GH:322:SER:OG	3:GH:324:LYS:NZ	2.22	0.71
3:GJ:309:ARG:H	3:GJ:372:THR:HG1	1.38	0.71
3:GL:302:ALA:HB1	3:GL:377:LEU:HD21	1.72	0.71
3:HH:278:SER:HA	3:HH:281:TYR:HB2	1.71	0.71
3:JL:54:ALA:HA	3:KL:283:ALA:HB2	1.71	0.71
21:K1:392:LYS:HZ1	24:M1:53:PRO:HG3	1.55	0.71
21:K1:438:THR:O	21:K1:442:ASN:ND2	2.23	0.71
3:KB:48:ASN:O	3:KB:62:ARG:NH2	2.21	0.71
4:LG:216:ASN:HB2	4:LG:276:ILE:HD12	1.72	0.71
4:LG:358:GLN:NE2	4:LG:359:PRO:O	2.23	0.71
4:LK:204:VAL:HG23	4:LK:302:MET:HG3	1.72	0.71
3:MH:372:THR:HG21	3:MH:426:GLN:HG3	1.72	0.71
3:NH:48:ASN:O	3:NH:62:ARG:NH2	2.23	0.71
3:NH:132:GLY:HA2	3:NH:162:ARG:HB3	1.71	0.71
3:NH:143:THR:HG22	3:NH:147:MET:HE2	1.72	0.71
28:O2:38:TYR:OH	30:Q2:1415:MET:SD	2.48	0.71
4:OE:203:MET:HE1	4:OE:267:PHE:HB3	1.71	0.71
3:OF:48:ASN:O	3:OF:62:ARG:NH2	2.23	0.71
3:OH:211:CYS:HA	3:OH:215:LEU:HB2	1.72	0.71
3:RH:48:ASN:O	3:RH:62:ARG:NH2	2.23	0.71
4:TC:88:HIS:HB3	4:TC:91:GLN:HB2	1.72	0.71
4:UK:54:SER:HB2	4:UK:62:VAL:HB	1.73	0.71
4:VK:25:CYS:HB2	4:VK:30:ILE:HB	1.72	0.71
34:XB:79:ILE:HD13	34:XB:164:ARG:HB3	1.72	0.71
34:XE:14:LEU:HB3	34:XE:165:VAL:HB	1.72	0.71
2:A2:97:ARG:HA	2:A2:100:ARG:HD2	1.71	0.71
2:A2:203:LYS:HA	2:A2:206:ARG:NH2	2.05	0.71
3:AB:309:ARG:HE	3:AB:426:GLN:HE21	1.36	0.71
3:AH:143:THR:HG22	3:AH:147:MET:HE2	1.71	0.71
3:AL:247:ASN:HB3	3:AL:252:LYS:HG2	1.73	0.71
3:BB:70:PRO:HA	3:BB:73:MET:HE3	1.70	0.71
4:BE:49:PHE:O	4:BE:53:PHE:N	2.24	0.71
4:BG:358:GLN:NE2	4:BG:359:PRO:O	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BK:25:CYS:HB2	4:BK:30:ILE:HB	1.72	0.71
7:Cb:200:PHE:O	7:Cb:204:LYS:NZ	2.23	0.71
6:D:56:MET:HB3	6:D:64:THR:HG23	1.72	0.71
8:D3:297:CYS:SG	8:D3:434:ARG:NH2	2.63	0.71
8:D7:368:LEU:HD21	8:D8:250:SER:HA	1.72	0.71
4:DK:325:PRO:HA	4:DK:328:VAL:HB	1.72	0.71
11:F5:110:ARG:HH22	11:F6:363:LYS:HB2	1.54	0.71
4:FA:205:ASP:OD2	4:FA:304:LYS:NZ	2.21	0.71
4:FK:204:VAL:HG23	4:FK:302:MET:HG3	1.70	0.71
14:G4:634:ASN:ND2	14:G4:636:ASP:OD1	2.15	0.71
3:GJ:278:SER:HA	3:GJ:281:TYR:HB2	1.72	0.71
3:GL:385:PHE:HA	3:GL:388:MET:HE2	1.72	0.71
4:HC:338:LYS:HZ2	4:HC:340:THR:H	1.35	0.71
4:HG:271:THR:O	4:HG:377:MET:N	2.24	0.71
3:HJ:278:SER:HA	3:HJ:281:TYR:HB2	1.72	0.71
4:IA:338:LYS:HZ2	4:IA:340:THR:H	1.38	0.71
4:JC:54:SER:HB2	4:JC:62:VAL:HB	1.71	0.71
4:JG:54:SER:HB2	4:JG:62:VAL:HB	1.70	0.71
3:JJ:309:ARG:H	3:JJ:372:THR:HG1	1.38	0.71
21:K4:265:VAL:HG22	21:K4:271:PRO:HB3	1.70	0.71
3:KF:33:THR:O	3:KF:58:LYS:NZ	2.24	0.71
4:LA:425:LEU:HD13	4:LA:428:LEU:HD12	1.70	0.71
3:MH:317:PHE:O	3:MH:354:CYS:N	2.19	0.71
4:MM:12:ALA:HB2	39:MM:501:GTP:H5"	1.72	0.71
26:N3:160:LYS:HA	26:N3:166:PHE:CD1	2.25	0.71
3:NB:4:ILE:HD11	3:NB:131:GLN:HB2	1.70	0.71
3:NF:83:GLN:O	3:NF:86:ARG:NH2	2.22	0.71
3:NH:289:LEU:O	3:NH:293:MET:N	2.22	0.71
29:P1:20:ILE:HB	29:P1:611:ILE:HB	1.72	0.71
4:PC:108:TYR:O	4:PC:112:LYS:NZ	2.20	0.71
4:QI:204:VAL:HG13	4:QI:302:MET:HG3	1.71	0.71
3:RL:385:PHE:HA	3:RL:388:MET:HE2	1.71	0.71
4:SG:192:HIS:HA	4:SG:195:LEU:HD23	1.72	0.71
3:TH:258:VAL:HB	4:TI:407:TRP:HZ2	1.54	0.71
3:UB:317:PHE:HB3	3:UB:321:MET:HE3	1.72	0.71
4:UC:54:SER:HB2	4:UC:62:VAL:HB	1.72	0.71
3:WH:46:ARG:HH22	4:WI:73:THR:HA	1.54	0.71
36:Y:145:ARG:HB3	36:Y:148:ARG:HB3	1.72	0.71
4:AC:279:GLU:HA	4:AC:282:TYR:HD2	1.54	0.71
4:AG:358:GLN:NE2	4:AG:359:PRO:O	2.23	0.71
4:AI:101:ASN:HA	4:AI:144:GLY:HA2	1.70	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AI:338:LYS:HZ2	4:AI:340:THR:H	1.38	0.71
4:CI:32:PRO:O	4:CI:85:GLN:NE2	2.24	0.71
3:CJ:143:THR:HG22	3:CJ:147:MET:HE2	1.72	0.71
8:D3:137:ARG:HD2	8:D3:447:GLN:HA	1.71	0.71
8:D7:368:LEU:HD22	8:D8:252:SER:H	1.54	0.71
8:D9:112:CYS:O	8:D9:115:SER:OG	2.06	0.71
3:DJ:211:CYS:HA	3:DJ:215:LEU:HB2	1.72	0.71
4:EE:101:ASN:HA	4:EE:144:GLY:HA2	1.72	0.71
3:EJ:412:GLU:OE1	3:EJ:416:ASN:ND2	2.22	0.71
4:EK:101:ASN:HA	4:EK:144:GLY:HA2	1.72	0.71
3:EL:385:PHE:HA	3:EL:388:MET:HE2	1.71	0.71
11:F3:93:ARG:HH12	11:F3:97:ARG:HB3	1.54	0.71
3:FL:3:GLU:HG2	3:FL:130:LEU:HD23	1.72	0.71
3:GJ:372:THR:HG21	3:GJ:426:GLN:HG3	1.72	0.71
4:HA:248:LEU:HD23	4:HA:355:ILE:HG22	1.72	0.71
3:HH:143:THR:HG22	3:HH:147:MET:HE2	1.70	0.71
4:HI:25:CYS:HB2	4:HI:30:ILE:HB	1.73	0.71
4:HK:49:PHE:HB2	4:HK:53:PHE:HB2	1.72	0.71
3:JB:322:SER:OG	3:JB:324:LYS:NZ	2.22	0.71
3:JF:278:SER:HA	3:JF:281:TYR:HB2	1.72	0.71
3:JF:322:SER:OG	3:JF:324:LYS:NZ	2.24	0.71
3:JL:385:PHE:HA	3:JL:388:MET:HE2	1.71	0.71
3:MF:211:CYS:HA	3:MF:215:LEU:HB2	1.70	0.71
4:MG:316:CYS:N	4:MG:378:LEU:O	2.22	0.71
3:NF:48:ASN:O	3:NF:62:ARG:NH2	2.21	0.71
3:NL:143:THR:HG22	3:NL:147:MET:HE2	1.71	0.71
3:OJ:4:ILE:HD11	3:OJ:131:GLN:HB2	1.72	0.71
4:PK:108:TYR:O	4:PK:112:LYS:NZ	2.23	0.71
3:RD:172:SER:OG	3:RD:205:GLU:OE2	2.08	0.71
3:RJ:289:LEU:O	3:RJ:293:MET:N	2.23	0.71
3:SH:7:LEU:HB2	3:SH:135:LEU:HG	1.70	0.71
3:TJ:323:MET:SD	3:TJ:324:LYS:NZ	2.61	0.71
4:VA:46:ASP:OD1	4:VA:50:ASN:ND2	2.22	0.71
4:VA:50:ASN:O	4:VA:64:ARG:NH1	2.23	0.71
3:VJ:421:GLU:HG2	3:VJ:425:TYR:HE2	1.56	0.71
3:WF:48:ASN:O	3:WF:62:ARG:NH2	2.23	0.71
2:A2:330:ARG:NH2	2:A3:212:VAL:O	2.24	0.71
5:B1:130:ARG:HH11	5:B2:11:ARG:HB2	1.54	0.71
3:BD:132:GLY:HA2	3:BD:162:ARG:HB3	1.71	0.71
3:BF:357:PRO:O	3:BF:359:ARG:NH2	2.21	0.71
3:BJ:324:LYS:NZ	4:BK:222:PRO:O	2.14	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CJ:372:THR:HG21	3:CJ:426:GLN:HG3	1.72	0.71
4:CM:88:HIS:HB3	4:CM:91:GLN:HB2	1.72	0.71
3:DH:173:PRO:O	3:DH:380:ARG:NH2	2.23	0.71
3:FL:289:LEU:HD21	3:FL:363:MET:HB3	1.72	0.71
11:Fa:473:ARG:O	11:Fa:473:ARG:NH1	2.23	0.71
11:Fi:170:MET:HE1	11:Fi:240:ILE:HD13	1.71	0.71
11:Fi:295:THR:HB	11:Fi:298:LYS:HG2	1.73	0.71
11:Fk:160:LEU:HG	11:Fk:254:ILE:HD13	1.72	0.71
13:G2:438:PHE:CE2	13:G2:451:ILE:HB	2.26	0.71
4:GA:1:MET:SD	4:GA:2:ARG:N	2.62	0.71
15:H2:9:LEU:HG	15:H2:10:PHE:H	1.55	0.71
4:HC:216:ASN:HB2	4:HC:276:ILE:HD12	1.70	0.71
4:HG:191:THR:HG21	4:HG:388:TRP:HH2	1.55	0.71
4:IA:115:VAL:HG11	4:IA:152:LEU:HD22	1.73	0.71
4:IA:192:HIS:HA	4:IA:195:LEU:HD23	1.72	0.71
3:JD:101:TRP:HB2	3:JD:184:ASN:HD22	1.54	0.71
4:JI:25:CYS:HB2	4:JI:30:ILE:HB	1.73	0.71
4:LI:264:ARG:O	4:LI:266:HIS:ND1	2.21	0.71
4:MK:338:LYS:HZ2	4:MK:340:THR:H	1.37	0.71
3:NF:253:LEU:HB3	3:NF:257:MET:HE1	1.71	0.71
4:PM:220:GLU:HG2	4:PM:221:ARG:HG2	1.73	0.71
30:Q2:1401:GLN:O	30:Q2:1406:LEU:N	2.21	0.71
4:QC:208:ALA:H	4:QC:304:LYS:HZ1	1.38	0.71
3:QF:100:ASN:HB3	3:QF:103:LYS:HB2	1.73	0.71
4:QG:419:SER:HA	4:QG:422:ARG:HE	1.56	0.71
3:RF:28:HIS:HD2	3:RF:43:GLN:HB2	1.54	0.71
4:SG:271:THR:HB	4:SG:377:MET:HB3	1.71	0.71
3:SL:250:LEU:O	3:SL:254:ALA:N	2.22	0.71
3:TH:412:GLU:OE1	3:TH:416:ASN:ND2	2.23	0.71
3:TN:262:ARG:HD2	3:TN:421:GLU:HG3	1.71	0.71
4:UA:338:LYS:HZ2	4:UA:340:THR:H	1.37	0.71
3:VF:83:GLN:O	3:VF:86:ARG:NH2	2.24	0.71
3:VH:323:MET:N	3:VH:323:MET:SD	2.63	0.71
3:VJ:246:LEU:HB2	3:VJ:352:ALA:HB1	1.72	0.71
4:WE:12:ALA:O	39:WE:501:GTP:N1	2.23	0.71
4:WK:338:LYS:HZ2	4:WK:340:THR:H	1.35	0.71
3:WL:54:ALA:HB3	3:WL:58:LYS:HB3	1.73	0.71
3:WL:309:ARG:NH1	3:WL:343:GLU:OE2	2.21	0.71
37:YE:105:SER:HB3	37:YE:108:ASN:HB3	1.72	0.71
37:YG:14:LYS:O	37:YG:18:PHE:N	2.24	0.71
3:AB:132:GLY:HA2	3:AB:162:ARG:HB3	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B7:75:LYS:HA	5:B7:179:LYS:HE3	1.71	0.71
4:BE:9:VAL:HG11	4:BE:150:ALA:HB2	1.72	0.71
3:BF:247:ASN:HB3	3:BF:252:LYS:HG2	1.71	0.71
4:BG:271:THR:HA	4:BG:302:MET:HE1	1.73	0.71
6:C:127:GLU:OE1	6:C:281:ARG:NH2	2.19	0.71
3:CD:60:VAL:HG23	3:CD:86:ARG:HH11	1.55	0.71
8:D9:114:LYS:HG2	8:D9:218:LYS:HB3	1.71	0.71
9:E:775:PRO:HB2	9:E:779:SER:HB2	1.72	0.71
3:EH:296:ALA:HA	3:EH:299:MET:HE2	1.71	0.71
11:F2:450:ARG:O	11:F2:453:HIS:ND1	2.24	0.71
4:FI:25:CYS:HB2	4:FI:30:ILE:HB	1.73	0.71
4:FI:108:TYR:O	4:FI:112:LYS:NZ	2.22	0.71
11:Fb:104:ARG:HH12	11:Fb:108:ALA:HB2	1.55	0.71
14:G6:120:VAL:HG12	14:G6:127:GLN:HE22	1.55	0.71
3:HF:99:ASN:HB2	3:HF:142:GLY:HA3	1.71	0.71
3:HH:322:SER:OG	3:HH:324:LYS:NZ	2.23	0.71
4:HK:301:GLN:HG3	4:HK:303:VAL:H	1.53	0.71
3:IJ:39:ASP:OD1	3:IJ:43:GLN:NE2	2.23	0.71
3:JD:322:SER:OG	3:JD:324:LYS:NZ	2.23	0.71
4:JE:220:GLU:HG2	4:JE:221:ARG:HG2	1.71	0.71
3:KH:286:VAL:HG21	3:KH:325:GLU:HG3	1.71	0.71
4:MC:438:ASP:OD1	28:O1:55:ARG:NH1	2.23	0.71
4:OI:9:VAL:HG22	4:OI:146:GLY:HA2	1.72	0.71
3:OJ:216:LYS:O	3:OJ:276:ARG:NH2	2.24	0.71
4:OK:50:ASN:O	4:OK:64:ARG:NH1	2.23	0.71
4:OK:271:THR:HB	4:OK:377:MET:HB3	1.72	0.71
29:P3:121:PRO:HD2	29:P3:171:ASP:HA	1.72	0.71
4:PI:161:TYR:O	4:PI:166:LYS:NZ	2.23	0.71
4:PI:182:VAL:HA	4:PI:185:TYR:HD2	1.55	0.71
3:QB:170:VAL:N	3:QB:202:ILE:O	2.23	0.71
4:QC:220:GLU:HG2	4:QC:221:ARG:HG2	1.71	0.71
4:QG:346:TRP:HZ2	3:QH:391:ARG:HE	1.36	0.71
3:SF:385:PHE:HA	3:SF:388:MET:HE2	1.73	0.71
3:TH:257:MET:HG3	3:TH:258:VAL:HG23	1.72	0.71
3:UF:48:ASN:O	3:UF:62:ARG:NH2	2.23	0.71
4:UI:49:PHE:HB2	4:UI:53:PHE:HB2	1.70	0.71
4:UK:1:MET:SD	4:UK:2:ARG:N	2.63	0.71
4:AE:401:LYS:C	4:AE:402:ARG:HD3	2.15	0.71
4:AK:88:HIS:CE1	4:AK:121:ARG:HH22	2.08	0.71
4:AK:338:LYS:HZ2	4:AK:340:THR:H	1.39	0.71
4:BE:358:GLN:NE2	4:BE:359:PRO:O	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BL:48:ASN:O	3:BL:62:ARG:NH2	2.24	0.71
3:BL:316:VAL:HG22	3:BL:352:ALA:HB3	1.72	0.71
4:CM:208:ALA:H	4:CM:304:LYS:HZ1	1.36	0.71
6:D:296:ASP:OD1	6:D:299:ASN:ND2	2.24	0.71
4:DK:52:PHE:HZ	4:DK:239:THR:HB	1.56	0.71
4:DK:68:VAL:HA	4:DK:93:ILE:HB	1.71	0.71
3:EB:63:ALA:O	3:EB:89:ASN:ND2	2.24	0.71
3:EB:207:LEU:HD22	3:EB:225:LEU:HG	1.70	0.71
4:EE:338:LYS:HZ2	4:EE:340:THR:H	1.38	0.71
3:FB:286:VAL:HG21	3:FB:325:GLU:HG3	1.73	0.71
4:FE:220:GLU:HG2	4:FE:221:ARG:HG2	1.72	0.71
4:FK:338:LYS:HZ2	4:FK:340:THR:H	1.37	0.71
11:Fb:413:GLN:OE1	11:Fc:145:ARG:NH2	2.20	0.71
14:G5:171:ASP:HB3	14:G5:174:THR:HG23	1.72	0.71
3:GD:60:VAL:HG23	3:GD:86:ARG:HH11	1.55	0.71
4:GG:54:SER:HB2	4:GG:62:VAL:HB	1.73	0.71
3:GL:246:LEU:HB2	3:GL:352:ALA:HB1	1.71	0.71
15:H2:26:GLN:HE21	15:H2:29:TYR:HD2	1.38	0.71
4:HK:54:SER:HB2	4:HK:62:VAL:HB	1.72	0.71
3:IH:84:ILE:O	3:IH:86:ARG:NH1	2.23	0.71
4:II:205:ASP:OD2	4:II:304:LYS:NZ	2.22	0.71
4:JG:245:ASP:O	4:JG:356:ASN:ND2	2.23	0.71
3:KF:317:PHE:HB3	3:KF:321:MET:HE3	1.72	0.71
22:L2:105:PHE:HZ	3:LF:424:GLN:HB3	1.55	0.71
3:MD:372:THR:HG21	3:MD:426:GLN:HG3	1.72	0.71
4:NG:101:ASN:HA	4:NG:144:GLY:HA2	1.72	0.71
39:OF:501:GTP:O3G	39:OF:501:GTP:O3'	2.09	0.71
3:OJ:278:SER:HA	3:OJ:281:TYR:HB2	1.72	0.71
4:PC:1:MET:SD	4:PC:2:ARG:N	2.62	0.71
3:PJ:37:HIS:HA	37:YR:64:ARG:HH22	1.55	0.71
4:QE:172:TYR:HB2	4:QE:203:MET:HB2	1.73	0.71
27:R:269:VAL:HG11	27:R:272:ARG:HH21	1.54	0.71
3:RD:48:ASN:O	3:RD:62:ARG:NH2	2.20	0.71
3:RF:182:PRO:HB2	3:RF:388:MET:HE1	1.70	0.71
3:RL:322:SER:OG	3:RL:324:LYS:NZ	2.24	0.71
4:SE:21:TRP:HA	4:SE:24:TYR:HB2	1.72	0.71
4:SK:25:CYS:HB2	4:SK:30:ILE:HB	1.73	0.71
3:TF:246:LEU:HB2	3:TF:352:ALA:HB1	1.71	0.71
4:TM:25:CYS:HB2	4:TM:30:ILE:HB	1.70	0.71
3:UJ:240:LEU:HA	3:UJ:248:ALA:HB1	1.72	0.71
4:WE:220:GLU:HG2	4:WE:221:ARG:HG2	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WG:388:TRP:HB3	4:WG:425:LEU:HD11	1.72	0.71
34:XE:3:LYS:HE3	35:XL:62:ARG:HG2	1.72	0.71
37:YP:114:ARG:NH2	37:YP:133:HIS:O	2.23	0.71
1:B:347:GLN:NE2	4:GK:57:GLY:O	2.23	0.71
4:BG:66:VAL:HA	4:BG:91:GLN:HE21	1.56	0.71
7:C8:164:LEU:HA	7:C8:167:MET:SD	2.30	0.71
7:Ca:196:ARG:O	7:Ca:196:ARG:NH1	2.24	0.71
8:D4:135:LYS:HG2	8:D4:194:ILE:HD11	1.71	0.71
4:DA:9:VAL:HG11	4:DA:150:ALA:HB2	1.73	0.71
3:DJ:2:ARG:HB3	3:DJ:131:GLN:NE2	2.05	0.71
3:EJ:117:LEU:HD11	3:EJ:154:LYS:HD2	1.73	0.71
11:F6:201:ARG:HH22	11:F6:465:ASP:HB2	1.55	0.71
4:FA:229:ARG:NH2	4:FA:364:PRO:O	2.22	0.71
4:FI:210:TYR:OH	4:FI:221:ARG:NH2	2.23	0.71
11:Fl:454:GLU:OE1	11:Fl:458:LYS:NZ	2.22	0.71
13:G1:502:ARG:NH1	13:G1:503:PHE:O	2.23	0.71
14:G5:314:ARG:NH1	14:G5:316:ASP:O	2.23	0.71
3:GD:143:THR:HB	3:GD:147:MET:HE1	1.72	0.71
3:HH:392:LYS:HB2	3:HH:395:LEU:HD13	1.71	0.71
3:IB:60:VAL:HG23	3:IB:86:ARG:HH11	1.55	0.71
4:II:65:ALA:O	4:II:91:GLN:NE2	2.24	0.71
4:JA:419:SER:HA	4:JA:422:ARG:HE	1.54	0.71
3:JH:211:CYS:HA	3:JH:215:LEU:HB2	1.72	0.71
4:KC:1:MET:N	4:KC:130:THR:OG1	2.24	0.71
22:L1:146:ILE:HD11	4:MC:386:GLU:HA	1.73	0.71
4:LC:285:GLN:HE22	4:LC:287:SER:HB3	1.56	0.71
4:LG:9:VAL:HG11	4:LG:150:ALA:HB2	1.73	0.71
24:M1:56:TYR:HB2	24:M1:89:PHE:HD2	1.54	0.71
4:NC:49:PHE:HB2	4:NC:53:PHE:HB2	1.70	0.71
28:O2:102:LEU:HA	28:O2:109:LEU:HD23	1.73	0.71
3:OB:48:ASN:O	3:OB:62:ARG:NH2	2.22	0.71
4:OG:25:CYS:HB2	4:OG:30:ILE:HB	1.73	0.71
3:PH:375:GLN:HB3	3:PH:423:GLN:HE22	1.56	0.71
4:QE:216:ASN:HB2	4:QE:276:ILE:HD12	1.72	0.71
4:QI:388:TRP:HB3	4:QI:425:LEU:HD11	1.71	0.71
3:QL:48:ASN:O	3:QL:62:ARG:NH2	2.24	0.71
3:QL:412:GLU:OE1	3:QL:416:ASN:ND2	2.24	0.71
3:RB:357:PRO:HB3	3:RB:362:LYS:HA	1.72	0.71
3:SJ:278:SER:HA	3:SJ:281:TYR:HB2	1.72	0.71
3:TJ:211:CYS:HA	3:TJ:215:LEU:HB3	1.72	0.71
3:WB:324:LYS:NZ	4:WC:222:PRO:O	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:XA:1:MET:HG2	34:XA:67:LYS:HE3	1.71	0.71
34:XF:91:VAL:HG22	34:XF:154:VAL:HG23	1.72	0.71
3:AD:284:LEU:HD23	3:AD:363:MET:HE2	1.73	0.71
4:AM:401:LYS:C	4:AM:402:ARG:HD3	2.16	0.71
5:B1:319:GLU:HG3	5:B2:202:LYS:HG2	1.72	0.71
5:B2:33:ASP:HA	5:B2:36:HIS:CE1	2.26	0.71
4:BK:224:TYR:HA	4:BK:227:LEU:HB2	1.72	0.71
6:C:28:PHE:O	6:C:45:LEU:N	2.19	0.71
3:CH:141:GLY:HA3	39:CH:501:GTP:H5"	1.73	0.71
6:D:144:MET:HG2	6:D:289:ALA:HA	1.73	0.71
4:DE:338:LYS:HZ2	4:DE:340:THR:H	1.36	0.71
3:DJ:293:MET:HE3	3:DJ:367:PHE:HB2	1.72	0.71
4:EA:21:TRP:HA	4:EA:24:TYR:HB2	1.71	0.71
3:FF:77:ARG:O	3:FF:77:ARG:NH1	2.24	0.71
3:FJ:216:LYS:O	3:FJ:276:ARG:NH2	2.23	0.71
4:FK:108:TYR:O	4:FK:112:LYS:NZ	2.22	0.71
11:Fk:315:ILE:HD12	11:Fk:318:ARG:HH21	1.56	0.71
12:G:60:ASN:HA	12:G:63:LYS:HE2	1.71	0.71
14:G4:13:ARG:HH12	14:G4:17:LYS:HB3	1.54	0.71
14:G4:171:ASP:HB3	14:G4:174:THR:HG23	1.71	0.71
14:G4:196:TYR:HA	14:G4:199:MET:HE2	1.72	0.71
4:GE:192:HIS:HA	4:GE:195:LEU:HD23	1.73	0.71
4:GG:68:VAL:HA	4:GG:93:ILE:HB	1.73	0.71
3:GH:141:GLY:HA3	39:GH:501:GTP:H5"	1.71	0.71
3:GL:286:VAL:HG21	3:GL:325:GLU:HG3	1.73	0.71
4:HC:358:GLN:NE2	4:HC:359:PRO:O	2.24	0.71
4:IC:30:ILE:HA	4:IC:36:MET:HE1	1.73	0.71
3:JH:16:ILE:HD13	3:JH:226:ASN:HD22	1.56	0.71
3:JJ:412:GLU:OE1	3:JJ:416:ASN:ND2	2.24	0.71
3:KD:309:ARG:HE	3:KD:426:GLN:HE21	1.39	0.71
22:L3:50:GLY:O	3:MH:306:ARG:NH1	2.24	0.71
3:LD:101:TRP:HB2	3:LD:184:ASN:HD22	1.55	0.71
4:LK:419:SER:HA	4:LK:422:ARG:HE	1.55	0.71
3:NH:350:LYS:HE3	4:NI:181:VAL:H	1.55	0.71
3:NJ:46:ARG:HH12	4:NK:73:THR:HG23	1.54	0.71
4:NK:25:CYS:HB2	4:NK:30:ILE:HB	1.72	0.71
4:PE:115:VAL:HG11	4:PE:152:LEU:HD22	1.71	0.71
30:Q1:1419:ARG:O	30:Q1:1508:ASN:ND2	2.23	0.71
4:QK:84:ARG:NH2	37:YQ:124:HIS:O	2.23	0.71
3:RH:385:PHE:HA	3:RH:388:MET:HE2	1.70	0.71
3:SL:385:PHE:HA	3:SL:388:MET:HE2	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:SM:108:TYR:O	4:SM:112:LYS:NZ	2.22	0.71
3:TB:48:ASN:O	3:TB:62:ARG:NH2	2.23	0.71
3:TH:317:PHE:O	3:TH:354:CYS:N	2.24	0.71
3:UD:412:GLU:OE1	3:UD:416:ASN:ND2	2.24	0.71
4:VA:9:VAL:HG11	4:VA:150:ALA:HB2	1.73	0.71
4:VG:54:SER:HB2	4:VG:62:VAL:HB	1.72	0.71
3:VH:278:SER:HA	3:VH:281:TYR:HB2	1.72	0.71
4:WA:101:ASN:HA	4:WA:144:GLY:HA2	1.72	0.71
4:AE:338:LYS:HZ2	4:AE:340:THR:H	1.36	0.71
3:AL:322:SER:OG	3:AL:324:LYS:NZ	2.24	0.71
3:BB:54:ALA:O	15:H1:28:ARG:NH2	2.23	0.71
4:BE:271:THR:HA	4:BE:302:MET:HE1	1.72	0.71
6:C:102:THR:HA	6:C:106:LEU:HB3	1.72	0.71
7:C9:217:LYS:HA	7:C9:220:LEU:HD12	1.72	0.71
39:CD:501:GTP:O3G	39:CD:501:GTP:O3'	2.09	0.71
7:Cc:371:GLU:HB3	7:Cd:114:ARG:NH1	2.06	0.71
8:D7:169:ARG:NH2	8:D8:51:TYR:O	2.23	0.71
4:DK:338:LYS:HZ2	4:DK:340:THR:H	1.38	0.71
4:EE:271:THR:HA	4:EE:302:MET:HE1	1.73	0.71
3:EF:256:ASN:HB3	3:EF:350:LYS:HG3	1.72	0.71
3:EH:46:ARG:HH22	4:EI:73:THR:HA	1.56	0.71
4:FA:54:SER:HB2	4:FA:62:VAL:HB	1.73	0.71
3:FH:12:CYS:HB3	39:FH:501:GTP:H5'	1.73	0.71
4:FK:220:GLU:HG2	4:FK:221:ARG:HG2	1.73	0.71
11:Fh:338:ASN:HA	11:Fh:341:LEU:HD12	1.72	0.71
11:Fl:231:LYS:HA	11:Fl:234:LYS:HZ3	1.56	0.71
11:Fm:385:LYS:HE3	11:Fm:427:LEU:HD13	1.71	0.71
14:G5:59:VAL:O	14:G5:150:TYR:OH	2.09	0.71
4:GA:101:ASN:HA	4:GA:144:GLY:HA2	1.71	0.71
4:GG:70:LEU:HA	4:GG:95:GLY:HA3	1.73	0.71
4:IA:204:VAL:HG23	4:IA:302:MET:HG3	1.71	0.71
3:ID:286:VAL:HG21	3:ID:325:GLU:HG3	1.72	0.71
4:JE:88:HIS:HB3	4:JE:91:GLN:HB3	1.72	0.71
20:K:23:GLU:HB3	20:K:27:ARG:HH12	1.56	0.71
21:K2:172:LEU:HD11	21:K2:210:LYS:HE2	1.71	0.71
3:KD:46:ARG:HH12	4:KE:73:THR:HG23	1.54	0.71
22:L3:26:ARG:NH1	22:L3:27:TYR:O	2.24	0.71
4:MC:244:PHE:HB2	4:MC:356:ASN:HD21	1.56	0.71
4:MC:288:VAL:HG21	4:MC:328:VAL:HG12	1.72	0.71
3:MH:390:ARG:NH2	28:O2:40:GLN:O	2.24	0.71
4:MI:54:SER:HB2	4:MI:62:VAL:HB	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:NC:30:ILE:HA	4:NC:36:MET:HE1	1.72	0.71
4:NC:316:CYS:HB3	4:NC:378:LEU:HB3	1.73	0.71
4:NE:220:GLU:HG2	4:NE:221:ARG:HG2	1.72	0.71
4:PI:108:TYR:O	4:PI:112:LYS:NZ	2.20	0.71
30:Q2:1446:LYS:HG2	30:Q2:1483:ILE:HG13	1.72	0.71
3:QB:48:ASN:O	3:QB:62:ARG:NH2	2.22	0.71
3:QD:271:ALA:HB1	3:QD:272:PRO:HD2	1.73	0.71
4:TE:271:THR:HB	4:TE:377:MET:HB3	1.70	0.71
3:TJ:322:SER:OG	3:TJ:324:LYS:NZ	2.23	0.71
4:TK:49:PHE:HB2	4:TK:53:PHE:HB2	1.71	0.71
3:TN:173:PRO:O	3:TN:380:ARG:NH2	2.24	0.71
33:U:319:ASN:O	33:U:323:GLN:NE2	2.24	0.71
4:VC:358:GLN:NE2	4:VC:359:PRO:O	2.23	0.71
4:VG:25:CYS:HB2	4:VG:30:ILE:HB	1.72	0.71
3:VJ:372:THR:HB	3:VJ:375:GLN:HE22	1.55	0.71
4:WC:108:TYR:O	4:WC:112:LYS:NZ	2.23	0.71
34:XF:16:SER:OG	34:XF:163:ARG:NH1	2.22	0.71
34:XG:16:SER:OG	34:XG:163:ARG:NH1	2.22	0.71
35:XJ:135:ILE:HD13	35:XJ:138:LYS:HZ3	1.56	0.71
37:YT:116:LYS:HG3	37:YT:117:TYR:H	1.55	0.71
2:A2:185:ASP:OD1	2:A2:186:ASP:N	2.24	0.71
3:AJ:54:ALA:HB3	3:AJ:58:LYS:HB3	1.73	0.71
6:C:212:ARG:HB3	6:C:223:ALA:HB2	1.70	0.71
4:CG:220:GLU:O	4:CG:221:ARG:NE	2.24	0.71
4:CI:358:GLN:NE2	4:CI:359:PRO:O	2.23	0.71
7:Ca:231:GLU:HG3	7:Ca:235:GLN:HE22	1.55	0.71
7:Cb:285:ARG:NH1	7:Cb:288:GLU:OE1	2.23	0.71
8:D4:78:ARG:HD3	8:D5:335:GLN:HE22	1.56	0.71
4:DI:32:PRO:O	4:DI:85:GLN:NE2	2.24	0.71
3:EH:284:LEU:HD12	3:EH:363:MET:HG2	1.73	0.71
3:FH:211:CYS:HA	3:FH:215:LEU:HB3	1.73	0.71
11:Fb:160:LEU:HD11	11:Fb:254:ILE:HD13	1.72	0.71
13:G1:170:ARG:O	13:G1:202:ASN:ND2	2.23	0.71
3:GF:141:GLY:HA3	39:GF:501:GTP:H5"	1.71	0.71
4:HC:7:ILE:N	4:HC:136:LEU:O	2.22	0.71
3:HF:324:LYS:HB3	4:HG:210:TYR:HE2	1.55	0.71
3:HH:412:GLU:OE1	3:HH:416:ASN:ND2	2.24	0.71
4:HI:371:VAL:HG11	4:HI:374:ALA:HB2	1.71	0.71
3:HJ:4:ILE:HD11	3:HJ:131:GLN:HB2	1.72	0.71
4:IG:271:THR:HA	4:IG:302:MET:HE1	1.70	0.71
3:IH:45:GLU:HG3	3:IH:46:ARG:HG3	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IH:139:LEU:HD21	3:IH:170:VAL:HG22	1.72	0.71
19:J1:177:ASN:HA	19:J1:180:GLU:HB3	1.73	0.71
3:JB:132:GLY:HA2	3:JB:162:ARG:HB3	1.72	0.71
3:KH:278:SER:HA	3:KH:281:TYR:HB2	1.73	0.71
22:L3:80:ARG:NH2	4:LI:192:HIS:O	2.24	0.71
4:LC:91:GLN:HG3	4:LC:121:ARG:HH21	1.56	0.71
4:LK:171:ILE:HD12	4:LK:204:VAL:HG13	1.71	0.71
3:MD:54:ALA:HB3	3:MD:58:LYS:HB2	1.72	0.71
4:MK:264:ARG:O	4:MK:266:HIS:ND1	2.24	0.71
3:NH:211:CYS:HA	3:NH:215:LEU:HB2	1.70	0.71
3:OB:322:SER:OG	3:OB:324:LYS:NZ	2.24	0.71
3:OB:372:THR:HB	3:OB:375:GLN:HE22	1.55	0.71
4:OE:427:ALA:HA	4:OE:430:LYS:HG2	1.72	0.71
29:P2:121:PRO:HD2	29:P2:171:ASP:HA	1.72	0.71
3:PB:263:LEU:HD12	3:PB:370:ASN:HD21	1.56	0.71
4:PI:358:GLN:NE2	4:PI:359:PRO:O	2.23	0.71
4:QC:30:ILE:HA	4:QC:36:MET:HE1	1.72	0.71
4:RC:108:TYR:CD2	4:RC:413:MET:HE1	2.26	0.71
4:WK:203:MET:HE1	4:WK:267:PHE:HB3	1.71	0.71
36:Z:304:MET:HG2	36:Z:307:ASP:HB3	1.72	0.71
3:AB:216:LYS:O	3:AB:276:ARG:NH2	2.23	0.70
3:AJ:316:VAL:HG22	3:AJ:352:ALA:HB3	1.72	0.70
4:BK:89:PRO:HD2	4:CK:280:LYS:HZ2	1.54	0.70
4:CC:108:TYR:O	4:CC:112:LYS:NZ	2.21	0.70
3:CJ:47:ILE:HG13	3:CJ:51:TYR:HB2	1.71	0.70
6:D:102:THR:HA	6:D:106:LEU:HB3	1.72	0.70
8:D3:297:CYS:O	8:D3:301:ASN:ND2	2.24	0.70
4:DI:207:GLU:HB2	4:DI:304:LYS:HZ1	1.54	0.70
11:F3:174:LYS:NZ	11:F3:237:ASP:OD1	2.20	0.70
11:F3:210:ASN:HA	11:F3:213:LYS:HD2	1.72	0.70
11:F8:384:ALA:O	11:F8:388:PRO:HD2	1.91	0.70
4:FA:108:TYR:O	4:FA:112:LYS:NZ	2.22	0.70
15:H1:252:PHE:O	15:H1:255:ARG:NH1	2.23	0.70
4:HE:418:PHE:HB3	4:HE:422:ARG:HH12	1.56	0.70
3:HH:246:LEU:HB2	3:HH:352:ALA:HB1	1.72	0.70
3:HH:286:VAL:HG21	3:HH:325:GLU:HG3	1.73	0.70
19:J1:167:MET:HB3	19:J1:174:LEU:HD21	1.71	0.70
4:JC:388:TRP:HB3	4:JC:425:LEU:HD11	1.71	0.70
3:KJ:132:GLY:HA2	3:KJ:162:ARG:HB3	1.70	0.70
4:KK:108:TYR:O	4:KK:112:LYS:NZ	2.21	0.70
20:L:73:VAL:HB	20:L:268:MET:HB3	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:L1:129:ARG:HH21	4:LC:94:THR:HG22	1.55	0.70
3:LD:60:VAL:HG23	3:LD:86:ARG:HH11	1.55	0.70
3:LJ:4:ILE:HD11	3:LJ:131:GLN:HB2	1.73	0.70
4:MI:220:GLU:HG2	4:MI:221:ARG:HG2	1.73	0.70
3:MJ:250:LEU:O	3:MJ:254:ALA:N	2.24	0.70
4:NE:101:ASN:HA	4:NE:144:GLY:HA2	1.71	0.70
3:OH:316:VAL:HG22	3:OH:352:ALA:HB3	1.72	0.70
3:PB:316:VAL:HG22	3:PB:352:ALA:HB3	1.71	0.70
3:RH:322:SER:OG	3:RH:324:LYS:NZ	2.24	0.70
4:RK:30:ILE:HA	4:RK:36:MET:HE1	1.72	0.70
3:RL:48:ASN:O	3:RL:62:ARG:NH2	2.23	0.70
4:UC:388:TRP:HB3	4:UC:425:LEU:HD11	1.73	0.70
4:UE:25:CYS:HB2	4:UE:30:ILE:HB	1.73	0.70
3:VB:4:ILE:HD11	3:VB:131:GLN:HB2	1.73	0.70
4:VC:224:TYR:HA	4:VC:227:LEU:HB2	1.71	0.70
4:VE:419:SER:HA	4:VE:422:ARG:HE	1.56	0.70
4:VG:244:PHE:HB2	4:VG:356:ASN:HD21	1.56	0.70
3:VL:372:THR:HB	3:VL:375:GLN:HE22	1.55	0.70
4:WC:30:ILE:HA	4:WC:36:MET:HE1	1.73	0.70
3:WJ:278:SER:HA	3:WJ:281:TYR:HB2	1.73	0.70
35:XJ:182:ASN:ND2	35:XJ:231:MET:O	2.24	0.70
39:AF:501:GTP:O3G	39:AF:501:GTP:O3'	2.09	0.70
4:AI:401:LYS:C	4:AI:402:ARG:HD3	2.15	0.70
4:BI:54:SER:HB2	4:BI:62:VAL:HB	1.72	0.70
7:C9:249:SER:HA	7:C9:252:HIS:ND1	2.06	0.70
8:D5:322:LEU:HD13	8:D5:412:LEU:HD22	1.73	0.70
4:DC:316:CYS:N	4:DC:378:LEU:O	2.24	0.70
3:DH:28:HIS:HD2	3:DH:43:GLN:HB2	1.56	0.70
4:EC:295:CYS:HB2	4:EC:377:MET:HE3	1.73	0.70
3:EL:32:PRO:HG2	13:G3:499:PHE:HB3	1.73	0.70
3:EL:103:LYS:NZ	3:EL:108:GLU:OE2	2.24	0.70
4:FA:203:MET:HE1	4:FA:267:PHE:HB3	1.73	0.70
4:FK:161:TYR:O	4:FK:166:LYS:NZ	2.24	0.70
3:FL:296:ALA:HA	3:FL:299:MET:HE2	1.72	0.70
11:Fb:376:MET:HB3	11:Fb:380:ARG:NH1	2.05	0.70
3:GB:216:LYS:O	3:GB:276:ARG:NH2	2.23	0.70
3:GB:372:THR:HG21	3:GB:426:GLN:HG3	1.73	0.70
3:GD:322:SER:OG	3:GD:324:LYS:NZ	2.24	0.70
15:H5:290:PRO:O	15:H5:315:ARG:NH1	2.24	0.70
4:JA:358:GLN:NE2	4:JA:359:PRO:O	2.23	0.70
3:JD:54:ALA:HB3	3:JD:58:LYS:HB3	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:JK:358:GLN:NE2	4:JK:359:PRO:O	2.23	0.70
21:K1:355:GLY:HA2	21:K1:358:ARG:HE	1.56	0.70
21:K3:116:ASP:O	21:K3:120:GLN:NE2	2.24	0.70
3:KD:296:ALA:HA	3:KD:299:MET:HE3	1.73	0.70
39:MF:501:GTP:O3G	39:MF:501:GTP:O3'	2.08	0.70
4:MG:245:ASP:O	4:MG:356:ASN:ND2	2.25	0.70
4:MI:208:ALA:H	4:MI:304:LYS:HZ1	1.39	0.70
3:ML:48:ASN:O	3:ML:62:ARG:NH2	2.24	0.70
4:NA:216:ASN:HB2	4:NA:276:ILE:HD12	1.73	0.70
3:NF:412:GLU:OE1	3:NF:416:ASN:ND2	2.24	0.70
3:OF:372:THR:HB	3:OF:375:GLN:HE22	1.56	0.70
3:QD:101:TRP:HB2	3:QD:184:ASN:HD22	1.56	0.70
4:SG:108:TYR:O	4:SG:112:LYS:NZ	2.19	0.70
4:TM:108:TYR:O	4:TM:112:LYS:NZ	2.21	0.70
4:UG:9:VAL:HG11	4:UG:150:ALA:HB2	1.73	0.70
3:UL:132:GLY:HA2	3:UL:162:ARG:HB3	1.72	0.70
4:VC:54:SER:HB2	4:VC:62:VAL:HB	1.73	0.70
3:VF:372:THR:HB	3:VF:375:GLN:HE22	1.56	0.70
4:VK:220:GLU:HG2	4:VK:221:ARG:HG2	1.73	0.70
3:WD:289:LEU:O	3:WD:293:MET:N	2.23	0.70
4:WE:338:LYS:HZ2	4:WE:340:THR:H	1.39	0.70
3:AB:374:ILE:HA	3:AB:377:LEU:HD13	1.71	0.70
4:AE:358:GLN:NE2	4:AE:359:PRO:O	2.24	0.70
5:B3:157:GLN:O	5:B3:161:HIS:ND1	2.25	0.70
4:BI:192:HIS:HA	4:BI:195:LEU:HD23	1.73	0.70
6:C:142:LEU:HB3	6:C:292:MET:H	1.55	0.70
7:C7:403:ARG:HE	7:C7:417:GLN:HE21	1.37	0.70
7:C8:403:ARG:O	7:C8:406:ARG:NE	2.22	0.70
4:CK:30:ILE:HG23	4:CK:36:MET:HE1	1.73	0.70
4:DE:273:ALA:HB2	4:DE:295:CYS:HB3	1.72	0.70
4:DG:358:GLN:NE2	4:DG:359:PRO:O	2.24	0.70
4:EA:1:MET:SD	4:EA:2:ARG:N	2.64	0.70
3:EL:286:VAL:HG21	3:EL:325:GLU:HG3	1.73	0.70
4:FI:171:ILE:HD12	4:FI:204:VAL:HG13	1.71	0.70
14:G6:5:PHE:O	3:ML:227:HIS:NE2	2.24	0.70
4:IA:54:SER:HB2	4:IA:62:VAL:HB	1.73	0.70
4:JK:216:ASN:HB2	4:JK:276:ILE:HD12	1.72	0.70
21:K1:381:PRO:HD2	24:M1:51:MET:HE3	1.72	0.70
21:K3:351:THR:HA	21:K3:354:LEU:HD12	1.73	0.70
21:K4:347:LYS:O	21:K4:351:THR:OG1	2.08	0.70
3:KF:302:ALA:HB1	3:KF:377:LEU:HD21	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KH:273:LEU:H	3:KH:292:GLN:HE22	1.39	0.70
3:LD:211:CYS:HA	3:LD:215:LEU:HB2	1.73	0.70
3:LH:65:LEU:HD21	3:LH:73:MET:SD	2.32	0.70
3:MH:155:ILE:HA	3:MH:158:GLU:HB2	1.72	0.70
4:MI:101:ASN:HA	4:MI:144:GLY:HA2	1.73	0.70
4:NI:358:GLN:NE2	4:NI:359:PRO:O	2.24	0.70
3:OD:135:LEU:HD21	3:OD:151:LEU:HD11	1.72	0.70
3:OF:392:LYS:HB2	3:OF:395:LEU:HD13	1.74	0.70
4:OI:53:PHE:O	4:OI:64:ARG:NH1	2.25	0.70
3:OL:4:ILE:HD11	3:OL:131:GLN:HB2	1.71	0.70
3:QB:182:PRO:HB2	3:QB:388:MET:HE1	1.73	0.70
4:QC:216:ASN:HB2	4:QC:276:ILE:HD12	1.73	0.70
4:QI:108:TYR:O	4:QI:112:LYS:NZ	2.22	0.70
3:SL:247:ASN:HB3	3:SL:252:LYS:HG2	1.74	0.70
4:UA:108:TYR:O	4:UA:112:LYS:NZ	2.20	0.70
3:UF:4:ILE:HD11	3:UF:131:GLN:HB2	1.72	0.70
4:WA:108:TYR:O	4:WA:112:LYS:NZ	2.23	0.70
34:XG:90:GLU:HB3	34:XG:104:ARG:HD3	1.73	0.70
3:AD:216:LYS:O	3:AD:276:ARG:NH2	2.24	0.70
5:B2:270:ARG:HH12	5:B2:274:SER:HB2	1.56	0.70
4:BI:88:HIS:HA	4:CI:283:HIS:HE1	1.57	0.70
3:BL:412:GLU:OE1	3:BL:416:ASN:ND2	2.25	0.70
3:CJ:54:ALA:HB3	3:CJ:58:LYS:HB2	1.72	0.70
3:CL:77:ARG:O	3:CL:77:ARG:NH1	2.22	0.70
3:EJ:130:LEU:HB2	3:EJ:162:ARG:HH11	1.56	0.70
11:F3:450:ARG:HA	11:F3:453:HIS:CD2	2.26	0.70
11:F6:152:TRP:HB3	11:F6:257:LYS:HZ3	1.54	0.70
4:FE:433:GLU:O	4:FE:437:VAL:N	2.24	0.70
3:FJ:191:GLN:O	3:FJ:195:ASN:ND2	2.23	0.70
11:Fa:415:ARG:CZ	11:Fb:138:THR:HA	2.20	0.70
11:Ff:116:LEU:O	11:Fg:433:ARG:NH2	2.24	0.70
14:G6:379:LYS:HD2	14:G6:380:PRO:HD2	1.72	0.70
4:GG:12:ALA:HB2	39:GG:501:GTP:H5"	1.73	0.70
3:HL:322:SER:OG	3:HL:324:LYS:NZ	2.20	0.70
4:IC:338:LYS:HZ2	4:IC:340:THR:H	1.37	0.70
3:JF:60:VAL:HG23	3:JF:86:ARG:HH11	1.55	0.70
3:JH:322:SER:OG	3:JH:324:LYS:NZ	2.24	0.70
4:KE:401:LYS:C	4:KE:402:ARG:HD3	2.16	0.70
3:KL:60:VAL:HG23	3:KL:86:ARG:HH11	1.56	0.70
3:LB:278:SER:HA	3:LB:281:TYR:HB2	1.71	0.70
4:LC:224:TYR:HA	4:LC:227:LEU:HB2	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LD:412:GLU:OE1	3:LD:416:ASN:ND2	2.23	0.70
3:MF:357:PRO:HB3	3:MF:362:LYS:HA	1.74	0.70
3:OD:48:ASN:O	3:OD:62:ARG:NH2	2.22	0.70
3:PD:211:CYS:HA	3:PD:215:LEU:HB2	1.73	0.70
3:PL:372:THR:HG21	3:PL:426:GLN:HG3	1.74	0.70
30:Q3:1509:ASP:OD1	30:Q3:1512:ARG:NH2	2.24	0.70
4:QE:279:GLU:HG3	37:YG:128:ASP:HB3	1.72	0.70
3:QH:46:ARG:HH22	4:QI:73:THR:HA	1.57	0.70
4:RM:216:ASN:HB2	4:RM:276:ILE:HD12	1.73	0.70
4:UK:216:ASN:HB2	4:UK:276:ILE:HD12	1.72	0.70
4:UK:419:SER:HA	4:UK:422:ARG:HE	1.55	0.70
4:VG:419:SER:HA	4:VG:422:ARG:HE	1.56	0.70
4:VK:264:ARG:O	4:VK:266:HIS:ND1	2.25	0.70
3:WD:309:ARG:HE	3:WD:426:GLN:HE21	1.38	0.70
2:A1:353:GLU:O	2:A1:357:GLN:NE2	2.25	0.70
3:AF:28:HIS:HD2	3:AF:43:GLN:HB2	1.56	0.70
4:AM:208:ALA:H	4:AM:304:LYS:HZ1	1.36	0.70
4:BG:216:ASN:HB2	4:BG:276:ILE:HD12	1.73	0.70
7:C4:438:LEU:O	7:C4:441:SER:OG	2.07	0.70
4:CG:25:CYS:HB2	4:CG:30:ILE:HB	1.73	0.70
4:DI:25:CYS:HB2	4:DI:30:ILE:HB	1.72	0.70
4:DK:49:PHE:HB2	4:DK:53:PHE:HB2	1.74	0.70
3:ED:262:ARG:HD2	3:ED:421:GLU:HG3	1.71	0.70
4:EI:172:TYR:HB2	4:EI:203:MET:HB2	1.72	0.70
11:F2:105:ASN:ND2	11:Fk:439:ASP:OD2	2.25	0.70
11:F6:149:LEU:HD21	11:F6:261:GLN:HB2	1.73	0.70
4:FK:358:GLN:NE2	4:FK:359:PRO:O	2.24	0.70
3:FL:141:GLY:HA3	39:FL:501:GTP:H5”	1.74	0.70
14:G4:259:THR:OG1	14:G4:281:ARG:O	2.08	0.70
14:G5:49:TYR:OH	3:MH:79:GLY:O	2.09	0.70
14:G6:6:LEU:HD11	3:ML:360:GLY:HA3	1.73	0.70
3:GF:32:PRO:O	3:GF:83:GLN:NE2	2.18	0.70
15:H5:302:ASN:O	15:H5:306:ARG:N	2.20	0.70
3:ID:2:ARG:HH12	3:ID:251:ARG:HH21	1.38	0.70
19:J1:142:ILE:HG22	19:J1:144:PRO:HD3	1.73	0.70
4:JE:89:PRO:HD2	4:KE:280:LYS:HZ3	1.57	0.70
4:JK:50:ASN:O	4:JK:64:ARG:NH1	2.25	0.70
4:KC:216:ASN:HB2	4:KC:276:ILE:HD12	1.73	0.70
4:KE:244:PHE:HB2	4:KE:356:ASN:HD21	1.56	0.70
3:KL:194:GLU:OE1	3:KL:195:ASN:ND2	2.25	0.70
24:M3:55:ARG:NH1	24:M3:89:PHE:O	2.23	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MJ:284:LEU:HD23	3:MJ:363:MET:HE2	1.73	0.70
4:OE:192:HIS:HA	4:OE:195:LEU:HD23	1.73	0.70
3:OL:316:VAL:HG22	3:OL:352:ALA:HB3	1.73	0.70
4:PE:104:ALA:HB1	4:PE:413:MET:HE3	1.71	0.70
4:PI:1:MET:SD	4:PI:2:ARG:N	2.64	0.70
4:PK:25:CYS:HB2	4:PK:30:ILE:HB	1.73	0.70
4:PM:204:VAL:HG23	4:PM:302:MET:HG3	1.73	0.70
30:Q3:1377:GLU:O	30:Q3:1381:GLN:NE2	2.25	0.70
4:RG:108:TYR:O	4:RG:112:LYS:NZ	2.24	0.70
4:RI:25:CYS:HB2	4:RI:30:ILE:HB	1.72	0.70
4:RI:144:GLY:N	39:RI:501:GTP:O2B	2.22	0.70
3:RJ:100:ASN:HB3	3:RJ:103:LYS:HB2	1.73	0.70
3:RL:419:VAL:O	3:RL:423:GLN:NE2	2.24	0.70
3:SB:322:SER:OG	3:SB:324:LYS:NZ	2.24	0.70
4:SE:108:TYR:O	4:SE:112:LYS:NZ	2.22	0.70
4:SM:338:LYS:HZ2	4:SM:340:THR:H	1.39	0.70
3:UF:372:THR:HG21	3:UF:426:GLN:HG3	1.73	0.70
3:UH:271:ALA:HA	3:UH:293:MET:HE1	1.72	0.70
3:VF:372:THR:HG21	3:VF:426:GLN:HG3	1.73	0.70
4:VG:338:LYS:HZ2	4:VG:340:THR:H	1.40	0.70
3:WH:48:ASN:O	3:WH:62:ARG:NH2	2.22	0.70
4:WI:317:MET:HE1	4:WI:351:PHE:HB2	1.71	0.70
4:AK:358:GLN:NE2	4:AK:359:PRO:O	2.24	0.70
4:BG:25:CYS:HB2	4:BG:30:ILE:HB	1.72	0.70
4:BI:49:PHE:HB2	4:BI:53:PHE:HB2	1.74	0.70
7:C4:375:ILE:O	7:C4:378:THR:OG1	2.10	0.70
4:CC:101:ASN:HA	4:CC:144:GLY:HA2	1.72	0.70
4:CG:54:SER:HB2	4:CG:62:VAL:HB	1.73	0.70
4:CI:6:SER:HA	4:CI:136:LEU:HB2	1.73	0.70
4:DA:332:ILE:HG13	4:DA:336:LYS:HZ2	1.57	0.70
4:DC:220:GLU:HG2	4:DC:221:ARG:HG2	1.72	0.70
4:DK:125:LEU:HD13	4:DK:128:LEU:HD21	1.73	0.70
8:Da:93:GLN:OE1	8:Da:96:GLN:NE2	2.25	0.70
3:EB:75:SER:O	14:G4:482:LYS:NZ	2.23	0.70
3:EJ:48:ASN:O	3:EJ:62:ARG:NH2	2.24	0.70
3:EL:385:PHE:HZ	3:EL:408:PHE:HB3	1.56	0.70
11:F6:291:SER:HG	11:F6:295:THR:HG1	1.38	0.70
11:F7:125:GLN:HG2	11:F7:129:GLN:HE22	1.56	0.70
11:F7:391:MET:SD	11:F7:395:MET:HE1	2.32	0.70
11:F7:402:ARG:HB2	11:F7:407:LEU:HD13	1.74	0.70
4:FA:358:GLN:NE2	4:FA:359:PRO:O	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FC:207:GLU:HB2	4:FC:304:LYS:HZ1	1.56	0.70
4:FE:324:VAL:HG11	3:FF:219:THR:HB	1.73	0.70
3:FH:267:MET:HB3	3:FH:299:MET:HE1	1.72	0.70
11:Fh:201:ARG:HH11	11:Fh:206:LEU:HA	1.56	0.70
11:Fl:221:LEU:HD11	11:Fl:335:GLN:HE22	1.55	0.70
13:G3:513:LEU:HA	13:G3:516:MET:HE3	1.72	0.70
4:GA:326:LYS:HE3	3:GB:219:THR:HA	1.74	0.70
3:GB:141:GLY:HA3	39:GB:501:GTP:H5”	1.74	0.70
15:H1:299:THR:HG22	15:H1:302:ASN:HB2	1.74	0.70
4:HI:316:CYS:HB3	4:HI:378:LEU:HB3	1.73	0.70
4:IC:108:TYR:O	4:IC:112:LYS:NZ	2.21	0.70
3:IF:240:LEU:HA	3:IF:248:ALA:HB1	1.72	0.70
4:KK:9:VAL:HG11	4:KK:150:ALA:HB2	1.72	0.70
22:L4:30:LEU:HD11	4:MM:309:HIS:CD2	2.27	0.70
3:LJ:11:GLN:O	3:LJ:15:GLN:NE2	2.23	0.70
4:MC:338:LYS:HZ2	4:MC:340:THR:H	1.39	0.70
3:MF:322:SER:OG	3:MF:324:LYS:NZ	2.23	0.70
4:MG:101:ASN:HA	4:MG:144:GLY:HA2	1.73	0.70
4:NE:216:ASN:ND2	4:NE:275:VAL:O	2.25	0.70
4:NK:220:GLU:HG2	4:NK:221:ARG:HG2	1.73	0.70
3:PH:4:ILE:HD11	3:PH:131:GLN:HB2	1.72	0.70
3:PH:46:ARG:HH12	4:PI:73:THR:HG23	1.56	0.70
4:PK:388:TRP:HB3	4:PK:425:LEU:HD11	1.73	0.70
4:QE:220:GLU:HG2	4:QE:221:ARG:HG2	1.73	0.70
4:QK:192:HIS:HA	4:QK:195:LEU:HD23	1.74	0.70
4:RM:285:GLN:HE22	4:RM:287:SER:HB3	1.56	0.70
3:TD:372:THR:HB	3:TD:375:GLN:HE22	1.56	0.70
3:TN:412:GLU:OE1	3:TN:416:ASN:ND2	2.24	0.70
4:UE:220:GLU:HG2	4:UE:221:ARG:HG2	1.71	0.70
3:UJ:309:ARG:HE	3:UJ:426:GLN:HE21	1.38	0.70
4:UK:9:VAL:HG11	4:UK:150:ALA:HB2	1.72	0.70
4:VE:101:ASN:HA	4:VE:144:GLY:HA2	1.72	0.70
2:A3:368:ARG:HH11	2:A4:26:ARG:HH11	1.39	0.70
5:B7:132:PRO:HD2	5:B7:268:ARG:HH12	1.57	0.70
4:BG:53:PHE:O	4:BG:64:ARG:NH1	2.25	0.70
3:BL:324:LYS:NZ	4:BM:222:PRO:O	2.23	0.70
7:C7:149:ARG:HE	7:C7:153:LEU:HD21	1.55	0.70
3:CJ:374:ILE:HA	3:CJ:377:LEU:HD13	1.73	0.70
3:CL:374:ILE:HG23	3:CL:377:LEU:HD12	1.74	0.70
8:D2:228:CYS:SG	8:D3:360:ARG:NH2	2.65	0.70
8:D9:400:GLN:NE2	8:D9:404:ASN:OD1	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EI:220:GLU:HG2	4:EI:221:ARG:HG2	1.74	0.70
11:Fk:251:GLU:HA	11:Fk:254:ILE:HG12	1.72	0.70
12:G:397:ARG:HH22	4:GC:372:GLN:HB3	1.55	0.70
14:G4:271:GLY:O	14:G4:272:ARG:NH1	2.23	0.70
4:GE:352:LYS:NZ	3:GF:177:ASP:O	2.22	0.70
4:GG:358:GLN:NE2	4:GG:359:PRO:O	2.24	0.70
3:HB:392:LYS:HB2	3:HB:395:LEU:HD13	1.72	0.70
3:HF:385:PHE:HA	3:HF:388:MET:HE2	1.74	0.70
4:HG:316:CYS:N	4:HG:378:LEU:O	2.25	0.70
3:IL:278:SER:HA	3:IL:281:TYR:HB2	1.74	0.70
4:JI:419:SER:HA	4:JI:422:ARG:HE	1.55	0.70
4:JK:192:HIS:HA	4:JK:195:LEU:HD23	1.72	0.70
21:K2:350:MET:HE1	21:K2:447:LEU:HB2	1.74	0.70
3:LB:374:ILE:HA	3:LB:377:LEU:HD13	1.72	0.70
4:LC:33:ASP:O	4:LC:60:LYS:NZ	2.25	0.70
4:LC:344:VAL:HB	4:LC:346:TRP:HD1	1.55	0.70
4:LE:208:ALA:H	4:LE:304:LYS:HZ1	1.37	0.70
3:LJ:246:LEU:HB2	3:LJ:352:ALA:HB1	1.74	0.70
3:LJ:296:ALA:HA	3:LJ:299:MET:HE3	1.74	0.70
4:MC:274:PRO:HG3	4:MC:374:ALA:HA	1.73	0.70
4:MK:415:GLU:OE1	4:MK:419:SER:OG	2.10	0.70
3:ND:132:GLY:HA2	3:ND:162:ARG:HB3	1.72	0.70
4:NE:172:TYR:N	4:NE:204:VAL:O	2.24	0.70
3:NL:211:CYS:HA	3:NL:215:LEU:HB2	1.72	0.70
4:OE:50:ASN:O	4:OE:64:ARG:NH1	2.25	0.70
4:PE:25:CYS:HB2	4:PE:30:ILE:HB	1.73	0.70
3:QF:46:ARG:HH12	4:QG:73:THR:HG23	1.55	0.70
3:QJ:246:LEU:HB2	3:QJ:352:ALA:HB1	1.74	0.70
4:RC:25:CYS:HB2	4:RC:30:ILE:HB	1.73	0.70
4:RE:171:ILE:HD12	4:RE:204:VAL:HG13	1.74	0.70
3:RH:273:LEU:H	3:RH:292:GLN:HE22	1.36	0.70
3:SB:278:SER:HA	3:SB:281:TYR:HB3	1.71	0.70
4:SG:358:GLN:NE2	4:SG:359:PRO:O	2.23	0.70
4:SK:49:PHE:HB2	4:SK:53:PHE:HB2	1.71	0.70
3:UB:278:SER:HA	3:UB:281:TYR:HB2	1.73	0.70
4:UG:138:PHE:HZ	4:UG:235:VAL:HG11	1.56	0.70
4:UK:391:LEU:HD23	4:UK:394:LYS:HZ1	1.56	0.70
4:VE:358:GLN:NE2	4:VE:359:PRO:O	2.23	0.70
3:VH:412:GLU:OE1	3:VH:416:ASN:ND2	2.24	0.70
4:WK:271:THR:HA	4:WK:302:MET:HE1	1.73	0.70
34:XE:25:TRP:HZ3	34:XE:61:CYS:HB3	1.55	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:XL:167:GLY:H	35:XL:219:TYR:HE2	1.39	0.70
37:YG:15:TYR:HA	37:YG:18:PHE:HB3	1.74	0.70
4:AG:338:LYS:HZ2	4:AG:340:THR:H	1.38	0.70
4:BG:391:LEU:HD23	4:BG:394:LYS:HZ1	1.57	0.70
3:BL:385:PHE:HA	3:BL:388:MET:HE2	1.72	0.70
3:CF:309:ARG:HE	3:CF:426:GLN:HE21	1.39	0.70
4:DI:262:TYR:OH	3:DJ:391:ARG:O	2.10	0.70
4:EA:358:GLN:NE2	4:EA:359:PRO:O	2.21	0.70
9:F:314:TYR:HA	9:F:331:ARG:HH22	1.57	0.70
4:FA:1:MET:SD	4:FA:2:ARG:N	2.65	0.70
3:FF:216:LYS:O	3:FF:276:ARG:NH2	2.25	0.70
3:FH:278:SER:HA	3:FH:281:TYR:HB2	1.74	0.70
11:Fc:98:SER:O	11:Fc:102:GLN:NE2	2.25	0.70
11:Fc:170:MET:HE2	11:Fc:318:ARG:HH21	1.55	0.70
14:G4:546:GLU:O	14:G4:550:GLN:NE2	2.25	0.70
14:G5:236:TRP:HB2	14:G5:351:VAL:HG12	1.73	0.70
4:GG:220:GLU:HG2	4:GG:221:ARG:HG2	1.74	0.70
15:H2:311:GLU:HA	15:H2:315:ARG:HG3	1.72	0.70
15:H4:246:ASP:O	15:H4:250:ASN:ND2	2.25	0.70
3:HD:273:LEU:H	3:HD:292:GLN:HE22	1.40	0.70
3:HH:250:LEU:O	3:HH:254:ALA:N	2.23	0.70
3:HL:423:GLN:HA	3:HL:426:GLN:HE21	1.57	0.70
4:IA:358:GLN:NE2	4:IA:359:PRO:O	2.23	0.70
3:IB:19:LYS:NZ	3:IB:223:GLY:O	2.25	0.70
4:IK:425:LEU:HD13	4:IK:428:LEU:HD12	1.74	0.70
4:JC:220:GLU:HG2	4:JC:221:ARG:HG2	1.72	0.70
21:K3:464:ARG:HH12	21:K3:468:ARG:HD2	1.56	0.70
3:KH:322:SER:OG	3:KH:324:LYS:NZ	2.25	0.70
4:ME:216:ASN:HB2	4:ME:276:ILE:HD12	1.71	0.70
3:MH:304:ASP:HB2	28:O2:9:GLN:HG3	1.72	0.70
3:ND:247:ASN:HB3	3:ND:252:LYS:HG2	1.73	0.70
3:OJ:322:SER:OG	3:OJ:324:LYS:NZ	2.25	0.70
3:OL:56:GLY:HA2	37:YW:59:ASN:HA	1.74	0.70
3:PD:316:VAL:HG22	3:PD:352:ALA:HB3	1.74	0.70
4:PE:172:TYR:N	4:PE:204:VAL:O	2.24	0.70
27:R:170:ARG:HB3	27:R:174:ARG:HH12	1.57	0.70
4:RC:12:ALA:HB2	39:RC:501:GTP:H5"	1.74	0.70
3:RL:156:ARG:NH1	3:RL:195:ASN:O	2.24	0.70
4:SC:108:TYR:O	4:SC:112:LYS:NZ	2.22	0.70
39:SD:501:GTP:O3G	39:SD:501:GTP:O3'	2.09	0.70
4:SI:173:PRO:HB2	4:SI:390:ARG:HH22	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:TC:414:GLU:HG2	4:TC:416:GLY:H	1.56	0.70
4:TK:98:ASP:O	4:TK:105:ARG:NH2	2.25	0.70
3:TL:60:VAL:HG23	3:TL:86:ARG:HH11	1.57	0.70
4:UA:316:CYS:HB3	4:UA:378:LEU:HB3	1.72	0.70
4:UA:358:GLN:NE2	4:UA:359:PRO:O	2.24	0.70
3:UJ:385:PHE:HA	3:UJ:388:MET:HE2	1.74	0.70
4:VK:50:ASN:O	4:VK:64:ARG:NH1	2.25	0.70
3:WD:258:VAL:HB	4:WE:407:TRP:HZ2	1.57	0.70
4:WE:419:SER:HA	4:WE:422:ARG:HE	1.56	0.70
34:XG:106:SER:HB2	34:XG:109:GLN:HG2	1.74	0.70
37:YK:144:VAL:HA	37:YK:147:PHE:CE2	2.25	0.70
2:A1:333:ALA:H	2:A2:66:ARG:HH22	1.38	0.70
2:A4:172:GLU:OE2	2:A4:176:ARG:NH1	2.24	0.70
4:AC:402:ARG:HH21	35:XH:233:PRO:HG2	1.57	0.70
4:BC:220:GLU:HG2	4:BC:221:ARG:HG2	1.73	0.70
3:BJ:48:ASN:O	3:BJ:62:ARG:NH2	2.20	0.70
4:BM:30:ILE:HA	4:BM:36:MET:HE1	1.74	0.70
3:CF:316:VAL:HG22	3:CF:352:ALA:HB3	1.74	0.70
3:CH:16:ILE:HD13	3:CH:167:PHE:HE2	1.56	0.70
4:EE:316:CYS:N	4:EE:378:LEU:O	2.24	0.70
3:EF:302:ALA:HB1	3:EF:377:LEU:HD21	1.74	0.70
11:F3:232:LEU:HD23	11:F3:235:ARG:HH22	1.57	0.70
14:G5:464:SER:HB3	14:G5:479:MET:HE1	1.73	0.70
14:G6:314:ARG:NH1	14:G6:316:ASP:O	2.24	0.70
16:I:103:LYS:NZ	4:JC:30:ILE:O	2.23	0.70
4:IM:236:SER:O	4:IM:243:ARG:NH2	2.24	0.70
4:JI:316:CYS:HB3	4:JI:378:LEU:HB3	1.73	0.70
4:KC:70:LEU:HD13	4:KC:95:GLY:HA3	1.74	0.70
3:KH:215:LEU:O	3:KH:276:ARG:NH1	2.25	0.70
4:LG:192:HIS:HA	4:LG:195:LEU:HD23	1.73	0.70
4:NG:358:GLN:NE2	4:NG:359:PRO:O	2.25	0.70
3:NL:372:THR:HB	3:NL:375:GLN:HE22	1.56	0.70
4:OE:205:ASP:OD2	4:OE:304:LYS:NZ	2.25	0.70
27:P:76:MET:O	27:P:80:HIS:ND1	2.21	0.70
4:PI:419:SER:HA	4:PI:422:ARG:HE	1.57	0.70
4:QC:25:CYS:HB2	4:QC:30:ILE:HB	1.74	0.70
4:QE:388:TRP:HB3	4:QE:425:LEU:HD11	1.74	0.70
4:RG:271:THR:HA	4:RG:302:MET:HE1	1.71	0.70
3:RH:262:ARG:NH1	3:RH:425:TYR:OH	2.24	0.70
4:RK:216:ASN:HB2	4:RK:276:ILE:HD12	1.73	0.70
3:RL:278:SER:HA	3:RL:281:TYR:HB2	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:SE:49:PHE:HB2	4:SE:53:PHE:HB2	1.73	0.70
3:SH:107:THR:OG1	3:SH:401:GLU:OE2	2.09	0.70
4:SK:358:GLN:NE2	4:SK:359:PRO:O	2.24	0.70
3:TN:48:ASN:O	3:TN:62:ARG:NH2	2.24	0.70
3:UB:273:LEU:H	3:UB:292:GLN:HE22	1.36	0.70
4:UK:278:ALA:O	4:UK:370:LYS:NZ	2.22	0.70
4:VG:36:MET:HE3	4:VG:37:PRO:HD3	1.74	0.70
3:WB:317:PHE:HB3	3:WB:321:MET:HE3	1.73	0.70
7:C3:403:ARG:HE	7:C3:417:GLN:HE21	1.39	0.70
4:CC:12:ALA:HB1	39:CC:501:GTP:C2	2.27	0.70
3:CD:77:ARG:O	3:CD:77:ARG:NH1	2.20	0.70
3:CD:216:LYS:HZ3	14:G4:306:VAL:HG22	1.56	0.70
7:Cb:192:LEU:HB2	7:Cb:226:ILE:HG21	1.72	0.70
8:D9:372:ASN:HB2	8:Da:102:LYS:HZ1	1.57	0.70
3:ED:311:LEU:HD23	3:ED:342:VAL:HG11	1.72	0.70
11:F4:291:SER:OG	11:F4:295:THR:OG1	2.08	0.70
4:FC:205:ASP:OD2	4:FC:304:LYS:NZ	2.21	0.70
3:FJ:398:TYR:HB3	3:FJ:403:MET:HB2	1.73	0.70
4:FK:12:ALA:HB1	39:FK:501:GTP:C2	2.26	0.70
11:Fb:376:MET:HB3	11:Fb:380:ARG:HH12	1.57	0.70
11:Fm:254:ILE:HD12	11:Fm:257:LYS:HD3	1.74	0.70
12:G:310:ASN:HA	12:G:313:LEU:HD12	1.73	0.70
39:GD:501:GTP:O3G	39:GD:501:GTP:O3'	2.09	0.70
15:H1:290:PRO:O	15:H1:315:ARG:NH1	2.25	0.70
4:HA:236:SER:O	4:HA:243:ARG:NH2	2.25	0.70
4:HC:54:SER:HB2	4:HC:62:VAL:HB	1.74	0.70
4:HE:192:HIS:HA	4:HE:195:LEU:HD23	1.74	0.70
3:HL:250:LEU:O	3:HL:254:ALA:N	2.25	0.70
4:IG:30:ILE:HA	4:IG:36:MET:HE1	1.74	0.70
4:JC:271:THR:HA	4:JC:302:MET:HE1	1.72	0.70
3:JH:13:GLY:HA2	3:JH:16:ILE:HB	1.74	0.70
21:K2:421:LEU:O	21:K2:425:HIS:ND1	2.23	0.70
4:KA:192:HIS:HA	4:KA:195:LEU:HD23	1.73	0.70
4:KE:25:CYS:HB2	4:KE:30:ILE:HB	1.72	0.70
4:KG:21:TRP:HA	4:KG:24:TYR:HB2	1.74	0.70
3:KH:398:TYR:HB3	3:KH:403:MET:HB3	1.74	0.70
3:KJ:322:SER:OG	3:KJ:324:LYS:NZ	2.25	0.70
22:L3:193:ARG:NH2	22:L3:244:ILE:O	2.23	0.70
4:NG:338:LYS:HZ2	4:NG:340:THR:H	1.39	0.70
3:NH:141:GLY:HA3	39:NH:501:GTP:H5"	1.74	0.70
4:NI:208:ALA:H	4:NI:304:LYS:HZ1	1.37	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NJ:412:GLU:OE1	3:NJ:416:ASN:ND2	2.24	0.70
3:PD:12:CYS:HA	3:PD:15:GLN:HE22	1.56	0.70
3:PF:141:GLY:HA3	39:PF:501:GTP:H5"	1.74	0.70
3:PH:191:GLN:O	3:PH:195:ASN:ND2	2.24	0.70
3:PJ:316:VAL:HG22	3:PJ:352:ALA:HB3	1.73	0.70
30:Q3:1402:SER:HA	30:Q3:1406:LEU:HB3	1.74	0.70
3:QD:4:ILE:HD11	3:QD:131:GLN:HB2	1.74	0.70
3:QH:316:VAL:HG22	3:QH:352:ALA:HB3	1.74	0.70
4:QK:316:CYS:HB3	4:QK:378:LEU:HB2	1.72	0.70
4:SG:25:CYS:HB2	4:SG:30:ILE:HB	1.73	0.70
4:TG:205:ASP:OD2	4:TG:304:LYS:NZ	2.25	0.70
4:TK:358:GLN:NE2	4:TK:359:PRO:O	2.24	0.70
4:TM:271:THR:HA	4:TM:302:MET:HE1	1.72	0.70
33:U:481:GLN:HE22	4:UA:370:LYS:HD2	1.57	0.70
4:UG:415:GLU:OE1	4:UG:419:SER:OG	2.10	0.70
3:WH:317:PHE:HB3	3:WH:321:MET:HE3	1.72	0.70
4:WI:346:TRP:HH2	3:WJ:391:ARG:H	1.40	0.70
39:WL:501:GTP:O3G	39:WL:501:GTP:O3'	2.09	0.70
3:AB:316:VAL:HG22	3:AB:352:ALA:HB3	1.73	0.69
4:AG:12:ALA:HB2	39:AG:501:GTP:H5"	1.73	0.69
3:AH:350:LYS:HE3	4:AI:181:VAL:H	1.57	0.69
5:B6:141:VAL:HA	5:B6:144:ILE:HD12	1.74	0.69
5:B8:39:ARG:HH12	5:B9:293:LEU:HG	1.56	0.69
3:BJ:41:ASP:OD1	15:H5:6:LYS:NZ	2.24	0.69
4:BK:30:ILE:HA	4:BK:36:MET:HE1	1.73	0.69
3:BL:47:ILE:HG13	3:BL:51:TYR:HB2	1.73	0.69
7:C7:442:GLU:HA	7:C7:445:LEU:HD12	1.74	0.69
4:CC:207:GLU:HB2	4:CC:304:LYS:HZ1	1.57	0.69
3:CJ:170:VAL:N	3:CJ:202:ILE:O	2.23	0.69
6:D:305:GLU:O	12:G:98:ARG:NH2	2.21	0.69
4:DE:313:MET:HE3	4:DE:380:ASN:HB3	1.74	0.69
4:EI:207:GLU:HB2	4:EI:304:LYS:HZ1	1.55	0.69
4:FE:12:ALA:HB1	39:FE:501:GTP:C2	2.27	0.69
4:FI:38:SER:OG	11:Fj:467:ASP:OD1	2.06	0.69
13:G3:453:GLU:N	13:G3:464:GLY:O	2.18	0.69
4:GC:358:GLN:NE2	4:GC:359:PRO:O	2.23	0.69
3:GH:207:LEU:HB3	3:GH:225:LEU:HD22	1.73	0.69
4:GI:20:CYS:O	4:GI:24:TYR:N	2.22	0.69
15:H1:302:ASN:HA	15:H1:305:ARG:HG2	1.74	0.69
15:H2:40:ALA:O	15:H2:44:THR:OG1	2.06	0.69
3:HD:48:ASN:O	3:HD:62:ARG:NH2	2.24	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IB:372:THR:HG21	3:IB:426:GLN:HG3	1.74	0.69
4:JK:220:GLU:HG2	4:JK:221:ARG:HG2	1.74	0.69
21:K3:156:ARG:NH2	4:KG:414:GLU:OE2	2.25	0.69
21:K3:402:GLN:HB3	21:K3:405:VAL:HG22	1.73	0.69
3:LF:269:GLY:HA2	3:LF:300:MET:HE1	1.73	0.69
4:MI:358:GLN:NE2	4:MI:359:PRO:O	2.23	0.69
3:MJ:54:ALA:HB3	3:MJ:58:LYS:HB2	1.74	0.69
4:NE:12:ALA:HB2	39:NE:501:GTP:H5"	1.73	0.69
4:NI:192:HIS:HA	4:NI:195:LEU:HD23	1.74	0.69
3:OL:271:ALA:HA	3:OL:293:MET:HE1	1.74	0.69
3:PD:215:LEU:O	3:PD:276:ARG:NH1	2.24	0.69
3:RD:309:ARG:NH1	3:RD:343:GLU:OE1	2.25	0.69
4:SC:258:ASN:HB3	4:SC:352:LYS:HE3	1.74	0.69
3:SD:372:THR:HB	3:SD:375:GLN:HE22	1.57	0.69
4:SG:313:MET:HE3	4:SG:380:ASN:HB3	1.73	0.69
3:SJ:412:GLU:OE1	3:SJ:416:ASN:ND2	2.25	0.69
3:SL:286:VAL:HG21	3:SL:325:GLU:HG3	1.74	0.69
3:UD:4:ILE:HD11	3:UD:131:GLN:HB2	1.73	0.69
4:VG:9:VAL:HG11	4:VG:150:ALA:HB2	1.73	0.69
34:XB:11:LEU:HD13	34:XB:71:ILE:HD12	1.74	0.69
34:XF:90:GLU:OE1	34:XF:104:ARG:NH1	2.25	0.69
37:YF:155:SER:HA	37:YF:158:LEU:HG	1.74	0.69
37:YL:47:GLU:OE2	37:YL:106:GLN:HG3	1.92	0.69
37:YV:29:LEU:HB3	37:YV:33:ARG:HH12	1.56	0.69
4:AK:12:ALA:HB1	39:AK:501:GTP:C2	2.27	0.69
3:AL:278:SER:HA	3:AL:281:TYR:HB2	1.74	0.69
3:AL:286:VAL:HG21	3:AL:325:GLU:HG3	1.73	0.69
4:AM:54:SER:HB2	4:AM:62:VAL:HB	1.74	0.69
4:AM:108:TYR:O	4:AM:112:LYS:NZ	2.22	0.69
5:B2:157:GLN:O	5:B2:161:HIS:ND1	2.23	0.69
3:BB:48:ASN:O	3:BB:62:ARG:NH2	2.24	0.69
7:C3:253:GLU:HG2	11:Fl:241:ARG:HH22	1.56	0.69
3:CH:246:LEU:HB2	3:CH:352:ALA:HB1	1.74	0.69
3:DD:278:SER:HA	3:DD:281:TYR:HB2	1.73	0.69
3:DH:48:ASN:O	3:DH:62:ARG:NH2	2.22	0.69
4:DI:12:ALA:HB2	39:DI:501:GTP:H5"	1.73	0.69
3:EJ:278:SER:HA	3:EJ:281:TYR:HB2	1.72	0.69
11:F2:367:GLU:HG2	11:F3:110:ARG:HH21	1.57	0.69
11:F7:232:LEU:HD23	11:F7:235:ARG:HH22	1.58	0.69
3:FJ:15:GLN:HG2	3:FJ:222:TYR:HE2	1.56	0.69
13:G1:97:LEU:HG	13:G1:126:LEU:HD21	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:GE:358:GLN:NE2	4:GE:359:PRO:O	2.24	0.69
15:H4:9:LEU:HG	15:H4:10:PHE:H	1.55	0.69
3:HD:32:PRO:O	3:HD:83:GLN:NE2	2.22	0.69
3:HF:269:GLY:HA2	3:HF:300:MET:HE1	1.74	0.69
3:JB:278:SER:HA	3:JB:281:TYR:HB2	1.73	0.69
3:JH:250:LEU:O	3:JH:254:ALA:N	2.21	0.69
4:KE:358:GLN:NE2	4:KE:359:PRO:O	2.24	0.69
3:KF:372:THR:HG21	3:KF:426:GLN:HG3	1.74	0.69
4:KK:11:GLN:HB2	4:KK:74:VAL:HG21	1.72	0.69
22:L1:76:LYS:HB2	4:LA:416:GLY:HA3	1.74	0.69
22:L1:97:MET:HE1	3:LB:386:THR:HA	1.74	0.69
3:LD:309:ARG:HE	3:LD:426:GLN:HE21	1.40	0.69
3:LL:392:LYS:HB2	3:LL:395:LEU:HD13	1.74	0.69
24:M2:54:THR:HA	24:M2:92:TYR:H	1.57	0.69
4:MC:108:TYR:O	4:MC:112:LYS:NZ	2.21	0.69
4:ME:370:LYS:HZ2	27:P:285:TRP:CD1	2.10	0.69
3:MF:132:GLY:HA2	3:MF:162:ARG:HB3	1.74	0.69
4:MK:88:HIS:CE1	4:MK:121:ARG:HH22	2.10	0.69
3:NB:83:GLN:O	3:NB:86:ARG:NH2	2.25	0.69
3:NJ:173:PRO:O	3:NJ:380:ARG:NH2	2.25	0.69
4:OE:108:TYR:O	4:OE:112:LYS:NZ	2.22	0.69
29:P3:20:ILE:HB	29:P3:611:ILE:HB	1.74	0.69
4:PM:25:CYS:HB2	4:PM:30:ILE:HB	1.73	0.69
3:QD:374:ILE:HA	3:QD:377:LEU:HD13	1.73	0.69
3:QF:309:ARG:H	3:QF:372:THR:HG1	1.40	0.69
3:QL:4:ILE:HD11	3:QL:131:GLN:HB2	1.74	0.69
4:RE:338:LYS:HZ2	4:RE:340:THR:H	1.40	0.69
4:RG:25:CYS:HB2	4:RG:30:ILE:HB	1.74	0.69
3:RJ:286:VAL:HA	3:RJ:363:MET:HE1	1.73	0.69
4:RM:102:ASN:ND2	4:RM:411:GLU:OE2	2.22	0.69
4:SC:338:LYS:HZ2	4:SC:340:THR:H	1.39	0.69
3:SL:182:PRO:HB2	3:SL:388:MET:HE1	1.74	0.69
4:TC:338:LYS:HZ2	4:TC:340:THR:H	1.40	0.69
4:TG:207:GLU:HB2	4:TG:304:LYS:HZ1	1.56	0.69
3:UD:77:ARG:O	3:UD:77:ARG:NH1	2.25	0.69
3:UD:215:LEU:O	3:UD:276:ARG:NH1	2.25	0.69
4:UG:49:PHE:HB2	4:UG:53:PHE:HB2	1.73	0.69
4:VI:12:ALA:HB1	39:VI:501:GTP:C2	2.27	0.69
3:VJ:289:LEU:O	3:VJ:293:MET:N	2.20	0.69
39:VJ:501:GTP:O3G	39:VJ:501:GTP:O3'	2.08	0.69
3:VL:3:GLU:HG2	3:VL:130:LEU:HD23	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WC:11:GLN:HB2	4:WC:74:VAL:HG21	1.72	0.69
4:WC:358:GLN:NE2	4:WC:359:PRO:O	2.25	0.69
3:WJ:328:GLU:OE1	3:WJ:332:ASN:ND2	2.25	0.69
34:XC:1:MET:HE1	34:XC:24:ILE:HD11	1.72	0.69
2:A1:97:ARG:HA	2:A1:100:ARG:HD2	1.74	0.69
2:A4:162:ARG:NH2	13:G3:200:GLU:OE1	2.25	0.69
4:AC:401:LYS:C	4:AC:402:ARG:HD3	2.17	0.69
4:AE:89:PRO:HD2	4:BE:280:LYS:HZ3	1.57	0.69
3:AF:139:LEU:HD21	3:AF:170:VAL:HG22	1.74	0.69
7:C3:330:ILE:HD13	10:E2:186:ARG:HH22	1.55	0.69
7:C6:119:ARG:HH22	10:E1:148:GLU:HB3	1.56	0.69
3:CH:278:SER:HA	3:CH:281:TYR:HB2	1.74	0.69
7:Ca:393:LEU:HB2	7:Ca:427:VAL:HG11	1.73	0.69
3:DB:247:ASN:HB3	3:DB:252:LYS:HG2	1.73	0.69
3:DD:250:LEU:O	3:DD:254:ALA:N	2.23	0.69
3:EL:322:SER:OG	3:EL:324:LYS:NZ	2.25	0.69
11:F2:160:LEU:HD21	11:F2:250:LEU:HB3	1.74	0.69
4:FG:271:THR:HA	4:FG:302:MET:HE1	1.74	0.69
11:Fe:361:LEU:HD22	11:Fe:451:LEU:HD22	1.74	0.69
11:Ff:197:ASN:HA	11:Ff:200:LYS:HD2	1.75	0.69
4:GC:216:ASN:HB2	4:GC:276:ILE:HD12	1.75	0.69
4:GE:265:ILE:HD12	4:GE:267:PHE:HD2	1.58	0.69
3:IJ:173:PRO:O	3:IJ:380:ARG:NH2	2.25	0.69
4:JE:271:THR:OG1	4:JE:301:GLN:NE2	2.25	0.69
4:JK:224:TYR:HA	4:JK:227:LEU:HB2	1.74	0.69
21:K3:123:ALA:O	21:K3:127:HIS:ND1	2.19	0.69
4:KA:43:GLY:HA2	27:Q:152:ARG:HH22	1.56	0.69
4:KK:54:SER:HB2	4:KK:62:VAL:HB	1.74	0.69
3:KL:48:ASN:O	3:KL:62:ARG:NH2	2.25	0.69
4:LC:192:HIS:HA	4:LC:195:LEU:HD23	1.75	0.69
27:O:18:LYS:HD2	27:O:21:ILE:HD11	1.73	0.69
3:OB:245:GLN:HG3	4:OC:11:GLN:HE22	1.55	0.69
4:PA:338:LYS:HZ2	4:PA:340:THR:H	1.39	0.69
4:QK:207:GLU:HB2	4:QK:304:LYS:HZ1	1.55	0.69
4:RE:317:MET:HE1	4:RE:351:PHE:HB2	1.72	0.69
3:RJ:392:LYS:HB2	3:RJ:395:LEU:HD13	1.74	0.69
3:TF:7:LEU:HB2	3:TF:135:LEU:HG	1.75	0.69
3:TL:323:MET:SD	4:TM:210:TYR:OH	2.50	0.69
3:TN:216:LYS:O	3:TN:276:ARG:NH2	2.25	0.69
3:UB:143:THR:HG22	3:UB:147:MET:HE2	1.73	0.69
3:UF:170:VAL:N	3:UF:202:ILE:O	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UF:316:VAL:HG22	3:UF:352:ALA:HB3	1.73	0.69
4:UG:400:ALA:O	4:UG:402:ARG:NH1	2.25	0.69
3:VH:132:GLY:HA2	3:VH:162:ARG:HB3	1.74	0.69
4:VI:358:GLN:NE2	4:VI:359:PRO:O	2.25	0.69
3:WB:48:ASN:O	3:WB:62:ARG:NH2	2.25	0.69
37:YB:69:PHE:HA	37:YB:72:ILE:HB	1.73	0.69
37:YO:110:LEU:HD23	37:YO:140:LEU:HD13	1.74	0.69
3:AF:60:VAL:HG23	3:AF:86:ARG:HH11	1.58	0.69
5:B3:214:THR:OG1	5:B3:217:GLN:NE2	2.25	0.69
5:B7:50:ASN:OD1	5:B8:307:LYS:NZ	2.24	0.69
5:B8:201:LEU:HA	5:B9:315:HIS:CD2	2.26	0.69
4:CC:25:CYS:HB2	4:CC:30:ILE:HB	1.74	0.69
4:CC:49:PHE:HB2	4:CC:53:PHE:HB2	1.74	0.69
4:CC:144:GLY:N	39:CC:501:GTP:O2B	2.24	0.69
3:CH:173:PRO:O	3:CH:380:ARG:NH2	2.25	0.69
3:DD:322:SER:OG	3:DD:324:LYS:NZ	2.18	0.69
3:DJ:132:GLY:HA2	3:DJ:162:ARG:HB3	1.73	0.69
4:EA:25:CYS:HB2	4:EA:30:ILE:HB	1.74	0.69
3:EB:173:PRO:O	3:EB:380:ARG:NH2	2.24	0.69
3:ED:111:GLU:HG2	3:ED:112:LEU:HD12	1.74	0.69
4:FC:317:MET:HE1	4:FC:351:PHE:HB2	1.74	0.69
3:FF:178:THR:HG23	3:FF:181:GLU:HB2	1.74	0.69
3:FL:317:PHE:O	3:FL:354:CYS:N	2.22	0.69
11:Fb:135:GLN:O	11:Fb:138:THR:OG1	2.09	0.69
11:Fm:304:ILE:HG13	11:Fm:308:GLN:HE22	1.58	0.69
13:G1:262:TYR:HE1	13:G1:277:GLU:HG2	1.57	0.69
14:G4:453:VAL:HB	14:G4:466:PHE:HB3	1.73	0.69
4:GG:96:LYS:HG3	23:M:140:THR:HG23	1.74	0.69
3:GJ:5:VAL:HG23	3:GJ:130:LEU:HD21	1.73	0.69
4:HE:285:GLN:HE22	4:HE:287:SER:HB3	1.56	0.69
4:IC:396:ASP:OD1	4:IC:397:LEU:N	2.26	0.69
4:IE:98:ASP:O	4:IE:105:ARG:NH2	2.25	0.69
3:JD:412:GLU:OE1	3:JD:416:ASN:ND2	2.25	0.69
21:K1:402:GLN:O	21:K1:405:VAL:N	2.20	0.69
21:K3:474:TYR:O	21:K3:478:GLN:NE2	2.25	0.69
4:KE:419:SER:HA	4:KE:422:ARG:HE	1.56	0.69
22:L1:171:GLU:HA	22:L1:174:ASN:HB2	1.74	0.69
4:LA:264:ARG:O	4:LA:266:HIS:ND1	2.24	0.69
4:LE:204:VAL:HG23	4:LE:302:MET:HG3	1.75	0.69
3:MJ:131:GLN:HB3	3:MJ:163:ILE:HD12	1.75	0.69
3:NJ:170:VAL:N	3:NJ:202:ILE:O	2.24	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:P2:62:GLY:O	29:P2:106:ARG:NH2	2.25	0.69
3:QB:131:GLN:NE2	3:QB:249:ASP:OD1	2.24	0.69
3:RD:174:LYS:HG3	3:RD:175:VAL:HG12	1.73	0.69
3:RL:39:ASP:OD1	3:RL:43:GLN:NE2	2.26	0.69
4:SG:207:GLU:HB2	4:SG:304:LYS:HZ1	1.56	0.69
4:SM:54:SER:HB2	4:SM:62:VAL:HB	1.75	0.69
4:UA:30:ILE:HA	4:UA:36:MET:HE1	1.74	0.69
3:UL:170:VAL:N	3:UL:202:ILE:O	2.24	0.69
4:VE:220:GLU:HG2	4:VE:221:ARG:HG2	1.72	0.69
3:VF:296:ALA:HA	3:VF:299:MET:HE3	1.73	0.69
4:VG:171:ILE:HD12	4:VG:204:VAL:HG13	1.74	0.69
3:WB:60:VAL:HG23	3:WB:86:ARG:HH11	1.56	0.69
3:WF:94:GLN:HA	35:XJ:74:LYS:H	1.57	0.69
3:WF:322:SER:OG	3:WF:324:LYS:NZ	2.24	0.69
34:XB:84:LYS:NZ	35:XH:241:ASN:H	1.89	0.69
37:YM:15:TYR:HA	37:YM:18:PHE:HB3	1.74	0.69
1:A:285:MET:O	1:A:289:HIS:ND1	2.23	0.69
3:AH:194:GLU:OE1	3:AH:195:ASN:ND2	2.26	0.69
3:AH:289:LEU:HD21	3:AH:363:MET:HB3	1.73	0.69
3:BD:211:CYS:HA	3:BD:215:LEU:HB2	1.75	0.69
4:BI:108:TYR:O	4:BI:112:LYS:NZ	2.24	0.69
3:CF:286:VAL:HG21	3:CF:325:GLU:HG3	1.74	0.69
4:CK:316:CYS:N	4:CK:378:LEU:O	2.26	0.69
3:CL:56:GLY:O	3:CL:58:LYS:NZ	2.24	0.69
8:D9:267:ARG:HA	8:D9:270:ARG:HE	1.56	0.69
3:DB:173:PRO:O	3:DB:380:ARG:NH2	2.25	0.69
4:EE:20:CYS:O	4:EE:24:TYR:N	2.25	0.69
3:EL:317:PHE:HB3	3:EL:321:MET:HE3	1.74	0.69
39:FF:501:GTP:O3G	39:FF:501:GTP:O3'	2.08	0.69
11:Fb:206:LEU:HD21	11:Fc:89:ARG:HD2	1.73	0.69
14:G5:488:LYS:HD3	14:G5:502:ILE:HG13	1.73	0.69
4:HC:220:GLU:HG2	4:HC:221:ARG:HG2	1.74	0.69
17:I2:54:ASN:O	17:I2:58:GLU:N	2.20	0.69
4:IK:324:VAL:HG11	3:IL:219:THR:HB	1.75	0.69
4:JA:34:GLY:HA3	4:JA:60:LYS:HD2	1.75	0.69
3:JH:302:ALA:HB1	3:JH:377:LEU:HD11	1.74	0.69
3:JJ:48:ASN:O	3:JJ:62:ARG:NH2	2.22	0.69
21:K2:373:VAL:HG13	4:KE:159:VAL:HG11	1.74	0.69
3:KJ:324:LYS:HD2	4:KK:221:ARG:HA	1.74	0.69
4:LA:32:PRO:O	4:LA:85:GLN:NE2	2.25	0.69
4:LE:54:SER:HB2	4:LE:62:VAL:HB	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LJ:258:VAL:HG13	3:LJ:263:LEU:HB2	1.73	0.69
4:NA:207:GLU:HB2	4:NA:304:LYS:HZ1	1.57	0.69
4:NI:50:ASN:O	4:NI:64:ARG:NH1	2.26	0.69
3:NJ:48:ASN:O	3:NJ:62:ARG:NH2	2.23	0.69
4:NK:50:ASN:O	4:NK:64:ARG:NH1	2.26	0.69
3:NL:16:ILE:HD13	3:NL:226:ASN:HD22	1.57	0.69
28:O1:55:ARG:NH2	28:O1:56:SER:O	2.26	0.69
3:OD:216:LYS:O	3:OD:276:ARG:NH2	2.26	0.69
4:OI:108:TYR:O	4:OI:112:LYS:NZ	2.23	0.69
29:P1:122:ASN:ND2	29:P1:171:ASP:OD2	2.26	0.69
3:PJ:70:PRO:HA	3:PJ:73:MET:HE2	1.74	0.69
4:PM:2:ARG:HA	4:PM:133:GLN:HE22	1.56	0.69
4:PM:223:THR:OG1	4:PM:225:THR:OG1	2.11	0.69
4:RC:84:ARG:NH2	37:YA:125:LEU:O	2.26	0.69
4:SG:262:TYR:OH	3:SH:391:ARG:O	2.10	0.69
3:TJ:412:GLU:OE1	3:TJ:416:ASN:ND2	2.25	0.69
3:UL:401:GLU:HB3	3:UL:403:MET:HE1	1.73	0.69
4:VK:358:GLN:NE2	4:VK:359:PRO:O	2.24	0.69
4:WG:310:GLY:O	4:WG:342:GLN:NE2	2.26	0.69
34:XD:79:ILE:HD13	34:XD:164:ARG:HB3	1.75	0.69
4:AG:49:PHE:HB2	4:AG:53:PHE:HB2	1.74	0.69
4:AG:313:MET:HE3	4:AG:380:ASN:HB3	1.74	0.69
5:B7:157:GLN:O	5:B7:161:HIS:ND1	2.25	0.69
4:BK:193:THR:O	4:BK:197:HIS:NE2	2.26	0.69
7:C9:380:GLU:HA	7:C9:383:LYS:HG2	1.75	0.69
3:CF:379:LYS:NZ	3:CF:383:GLU:OE2	2.26	0.69
3:CH:77:ARG:O	3:CH:77:ARG:NH1	2.23	0.69
8:D5:340:LYS:O	8:D5:343:ILE:HG22	1.93	0.69
8:D7:369:CYS:HA	8:D8:254:PRO:HD3	1.73	0.69
3:DB:324:LYS:NZ	4:DC:222:PRO:O	2.18	0.69
4:DE:207:GLU:HB2	4:DE:304:LYS:HZ1	1.57	0.69
3:DJ:286:VAL:HG21	3:DJ:325:GLU:HG3	1.75	0.69
3:EF:412:GLU:OE1	3:EF:416:ASN:ND2	2.25	0.69
4:EI:316:CYS:HB3	4:EI:378:LEU:HB3	1.73	0.69
11:F7:144:GLN:HE21	11:Fc:140:ARG:HD2	1.57	0.69
3:GJ:83:GLN:O	3:GJ:86:ARG:NH2	2.25	0.69
15:H3:291:SER:OG	15:H3:295:ASN:ND2	2.26	0.69
4:HG:208:ALA:H	4:HG:304:LYS:HZ1	1.38	0.69
4:II:1:MET:HG3	4:II:2:ARG:H	1.58	0.69
3:IJ:87:PRO:HG2	4:JI:280:LYS:HZ3	1.55	0.69
4:JA:108:TYR:O	4:JA:112:LYS:NZ	2.24	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:JE:192:HIS:HA	4:JE:195:LEU:HD23	1.73	0.69
4:JK:316:CYS:HB3	4:JK:378:LEU:HB3	1.72	0.69
4:JK:338:LYS:HZ2	4:JK:340:THR:H	1.39	0.69
21:K4:271:PRO:HB2	21:K4:276:GLN:HE21	1.58	0.69
22:L2:109:ASN:ND2	3:LF:425:TYR:OH	2.25	0.69
4:LG:108:TYR:O	4:LG:112:LYS:NZ	2.25	0.69
3:LJ:378:PHE:HE1	3:LJ:419:VAL:HG13	1.58	0.69
3:MD:263:LEU:HD12	3:MD:370:ASN:HD21	1.58	0.69
4:ME:208:ALA:H	4:ME:304:LYS:HZ1	1.39	0.69
4:PI:54:SER:HB2	4:PI:62:VAL:HB	1.73	0.69
4:QE:209:ILE:HG21	4:QE:227:LEU:HG	1.73	0.69
4:QK:216:ASN:HB2	4:QK:276:ILE:HD12	1.73	0.69
3:RB:170:VAL:N	3:RB:202:ILE:O	2.25	0.69
4:RG:265:ILE:HD12	4:RG:267:PHE:HD2	1.57	0.69
3:RJ:135:LEU:HD21	3:RJ:151:LEU:HD11	1.74	0.69
4:RK:11:GLN:HB2	4:RK:74:VAL:HG21	1.74	0.69
3:SB:273:LEU:H	3:SB:292:GLN:HE22	1.39	0.69
3:TF:46:ARG:HH12	4:TG:73:THR:HG23	1.58	0.69
3:UB:170:VAL:N	3:UB:202:ILE:O	2.26	0.69
3:UH:211:CYS:HA	3:UH:215:LEU:HB2	1.73	0.69
3:UH:246:LEU:HB2	3:UH:352:ALA:HB1	1.73	0.69
3:UJ:286:VAL:HA	3:UJ:363:MET:HE1	1.74	0.69
39:WD:501:GTP:O3G	39:WD:501:GTP:O3'	2.10	0.69
4:WE:317:MET:HE1	4:WE:351:PHE:HB2	1.73	0.69
3:WF:262:ARG:HD2	3:WF:421:GLU:HG3	1.75	0.69
34:XE:84:LYS:NZ	35:XK:241:ASN:H	1.89	0.69
3:AB:4:ILE:HD11	3:AB:131:GLN:HB2	1.73	0.69
3:AL:412:GLU:OE1	3:AL:416:ASN:ND2	2.25	0.69
5:B4:270:ARG:O	5:B4:270:ARG:NH1	2.26	0.69
5:B6:7:LYS:HD3	8:D8:326:LEU:HG	1.74	0.69
5:B6:204:ASN:HB3	5:B6:207:ARG:HH21	1.58	0.69
5:B8:204:ASN:HB3	5:B8:207:ARG:HH21	1.57	0.69
4:BC:54:SER:HB2	4:BC:62:VAL:HB	1.74	0.69
3:BJ:322:SER:OG	3:BJ:324:LYS:NZ	2.26	0.69
7:C3:198:CYS:SG	7:C3:477:ARG:NH1	2.65	0.69
3:CD:286:VAL:HG21	3:CD:325:GLU:HG3	1.72	0.69
4:CE:220:GLU:HG2	4:CE:221:ARG:HG2	1.72	0.69
4:CG:224:TYR:HA	4:CG:227:LEU:HB2	1.73	0.69
6:D:304:TYR:HA	6:D:307:TYR:HD1	1.58	0.69
8:D8:297:CYS:O	8:D8:301:ASN:ND2	2.25	0.69
8:D9:372:ASN:H	8:Da:106:ARG:HH22	1.41	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DF:286:VAL:HG21	3:DF:325:GLU:HG3	1.73	0.69
3:DJ:247:ASN:HB3	3:DJ:252:LYS:HG2	1.74	0.69
3:DJ:302:ALA:HB1	3:DJ:377:LEU:HD21	1.75	0.69
3:FJ:99:ASN:HB2	3:FJ:142:GLY:HA3	1.74	0.69
4:FK:30:ILE:HA	4:FK:36:MET:HE1	1.74	0.69
4:FK:208:ALA:H	4:FK:304:LYS:HZ1	1.41	0.69
13:G3:438:PHE:CE2	13:G3:451:ILE:HB	2.28	0.69
4:GE:46:ASP:OD2	23:M:117:ARG:NH2	2.24	0.69
15:H4:307:ALA:O	15:H4:311:GLU:N	2.18	0.69
4:IA:236:SER:O	4:IA:243:ARG:NH2	2.25	0.69
4:IG:358:GLN:NE2	4:IG:359:PRO:O	2.24	0.69
4:IG:391:LEU:HD23	4:IG:394:LYS:HZ1	1.58	0.69
4:IM:285:GLN:HE22	4:IM:287:SER:HB3	1.57	0.69
4:KA:46:ASP:OD1	4:KA:50:ASN:ND2	2.24	0.69
4:KG:419:SER:HA	4:KG:422:ARG:HE	1.56	0.69
4:KI:401:LYS:C	4:KI:402:ARG:HD3	2.18	0.69
4:LE:419:SER:HA	4:LE:422:ARG:HE	1.56	0.69
3:LF:324:LYS:HD2	4:LG:221:ARG:HA	1.75	0.69
4:LG:271:THR:HA	4:LG:302:MET:HE1	1.72	0.69
3:LL:132:GLY:HA2	3:LL:162:ARG:HB3	1.73	0.69
3:MD:347:ASN:HB3	4:ME:178:SER:HB3	1.74	0.69
3:OD:289:LEU:O	3:OD:293:MET:N	2.25	0.69
3:OH:344:TRP:CZ3	4:OI:401:LYS:HD2	2.28	0.69
29:P3:93:ILE:HB	29:P3:107:LEU:HB2	1.74	0.69
3:PL:322:SER:OG	3:PL:324:LYS:NZ	2.25	0.69
4:QE:89:PRO:HD2	4:RE:280:LYS:HZ3	1.57	0.69
4:QM:21:TRP:HA	4:QM:24:TYR:HB2	1.74	0.69
4:QM:229:ARG:HE	4:QM:368:LEU:HD22	1.57	0.69
4:SE:25:CYS:HB2	4:SE:30:ILE:HB	1.74	0.69
3:UJ:46:ARG:HD3	3:UJ:241:ARG:HB2	1.74	0.69
3:VB:322:SER:OG	3:VB:324:LYS:NZ	2.24	0.69
4:VI:216:ASN:HB2	4:VI:276:ILE:HD12	1.74	0.69
3:WJ:135:LEU:HD21	3:WJ:151:LEU:HD11	1.74	0.69
35:XH:72:ASP:HB3	35:XH:77:LYS:HZ2	1.57	0.69
35:XI:167:GLY:H	35:XI:219:TYR:HE2	1.40	0.69
3:AF:167:PHE:HD1	3:AF:200:TYR:HD2	1.40	0.69
3:AJ:309:ARG:H	3:AJ:372:THR:HG1	1.40	0.69
4:BC:419:SER:HA	4:BC:422:ARG:HE	1.57	0.69
3:BD:309:ARG:N	3:BD:372:THR:OG1	2.24	0.69
3:BF:4:ILE:HD11	3:BF:131:GLN:HB2	1.74	0.69
3:BF:269:GLY:HA2	3:BF:300:MET:HE1	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BF:361:LEU:HD11	3:BF:364:SER:HB3	1.73	0.69
3:BF:412:GLU:OE1	3:BF:416:ASN:ND2	2.26	0.69
4:BG:102:ASN:ND2	4:BG:411:GLU:OE2	2.25	0.69
3:BH:289:LEU:O	3:BH:293:MET:N	2.22	0.69
4:BM:216:ASN:HB2	4:BM:276:ILE:HD12	1.75	0.69
7:C8:322:ARG:NH1	7:C8:323:GLU:OE2	2.26	0.69
3:CB:247:ASN:HB3	3:CB:252:LYS:HG2	1.73	0.69
3:CF:250:LEU:O	3:CF:254:ALA:N	2.25	0.69
3:CJ:247:ASN:HB3	3:CJ:252:LYS:HG2	1.74	0.69
6:D:361:ARG:HD3	6:D:373:VAL:HG12	1.73	0.69
8:D7:321:HIS:HA	8:D7:324:LYS:HZ3	1.58	0.69
4:DC:79:ARG:HG2	15:H2:282:ILE:HG21	1.73	0.69
3:DF:211:CYS:HA	3:DF:215:LEU:HB2	1.74	0.69
4:DG:203:MET:HE1	4:DG:267:PHE:HB3	1.73	0.69
3:EB:198:GLU:HA	3:EB:266:PHE:HE2	1.58	0.69
3:ED:4:ILE:HD11	3:ED:131:GLN:HB2	1.73	0.69
3:ED:117:LEU:HD11	3:ED:154:LYS:HD2	1.74	0.69
3:EH:48:ASN:O	3:EH:62:ARG:NH2	2.26	0.69
3:EJ:324:LYS:NZ	4:EK:222:PRO:O	2.19	0.69
3:EL:278:SER:HA	3:EL:281:TYR:HB2	1.72	0.69
11:F3:291:SER:OG	11:F3:295:THR:OG1	2.11	0.69
11:F4:106:ALA:O	11:F4:110:ARG:HG2	1.93	0.69
11:F4:125:GLN:O	11:F4:129:GLN:NE2	2.25	0.69
4:FG:108:TYR:O	4:FG:112:LYS:NZ	2.20	0.69
4:FK:52:PHE:HZ	4:FK:239:THR:HB	1.57	0.69
4:FK:285:GLN:HE22	4:FK:287:SER:HB3	1.58	0.69
3:FL:405:GLU:HA	3:FL:408:PHE:HD2	1.57	0.69
11:Fa:197:ASN:HA	11:Fa:200:LYS:HD2	1.75	0.69
11:Fb:214:ASN:OD1	11:Fb:217:ARG:NH2	2.26	0.69
11:Fc:201:ARG:NH2	11:Fc:465:ASP:OD1	2.25	0.69
11:Ff:121:LEU:O	11:Ff:125:GLN:NE2	2.26	0.69
12:G:455:ILE:O	4:GA:370:LYS:NZ	2.26	0.69
13:G1:270:ASP:O	13:G1:296:ARG:NH2	2.25	0.69
14:G5:450:ARG:HD2	14:G5:467:GLU:HG3	1.74	0.69
14:G5:475:ASN:OD1	14:G5:476:ALA:N	2.26	0.69
4:GG:273:ALA:HB2	4:GG:295:CYS:HB3	1.73	0.69
3:GH:419:VAL:HG12	3:GH:423:GLN:HE22	1.57	0.69
39:GH:501:GTP:O3G	39:GH:501:GTP:O3'	2.09	0.69
3:GJ:246:LEU:HB2	3:GJ:352:ALA:HB1	1.75	0.69
4:GK:71:GLU:OE2	4:GK:145:THR:OG1	2.11	0.69
4:GK:338:LYS:HZ2	4:GK:340:THR:H	1.38	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:GK:371:VAL:HG11	4:GK:374:ALA:HB2	1.75	0.69
15:H3:252:PHE:HB2	15:H3:255:ARG:HH21	1.58	0.69
3:HD:278:SER:HA	3:HD:281:TYR:HB2	1.74	0.69
17:I3:54:ASN:O	17:I3:58:GLU:N	2.23	0.69
4:IG:12:ALA:HB2	39:IG:501:GTP:H5"	1.75	0.69
19:J2:142:ILE:HG22	19:J2:144:PRO:HD3	1.74	0.69
3:JB:48:ASN:O	3:JB:62:ARG:NH2	2.25	0.69
4:JG:49:PHE:HB2	4:JG:53:PHE:HB2	1.74	0.69
4:JI:358:GLN:NE2	4:JI:359:PRO:O	2.25	0.69
4:JK:171:ILE:HD12	4:JK:204:VAL:HG13	1.73	0.69
21:K2:376:GLY:O	21:K3:115:ARG:NH2	2.26	0.69
21:K2:391:GLU:HB2	21:K2:395:ARG:HG3	1.75	0.69
4:KA:358:GLN:NE2	4:KA:359:PRO:O	2.24	0.69
3:KD:324:LYS:NZ	4:KE:222:PRO:O	2.23	0.69
4:KE:269:LEU:N	4:KE:379:SER:O	2.22	0.69
3:KH:46:ARG:HH22	4:KI:73:THR:HA	1.55	0.69
4:KI:204:VAL:HG23	4:KI:302:MET:HG3	1.73	0.69
22:L1:33:ALA:O	22:L1:37:ASN:ND2	2.26	0.69
22:L3:255:LYS:N	33:W:105:SER:OG	2.26	0.69
3:LD:262:ARG:HD2	3:LD:421:GLU:HG3	1.75	0.69
4:LE:220:GLU:HG2	4:LE:221:ARG:HG2	1.73	0.69
3:LF:163:ILE:HD13	3:LF:250:LEU:HB2	1.74	0.69
4:LG:49:PHE:HB2	4:LG:53:PHE:HB2	1.72	0.69
3:LH:289:LEU:HD21	3:LH:363:MET:HB3	1.74	0.69
3:LJ:216:LYS:O	3:LJ:276:ARG:NH2	2.25	0.69
4:ME:188:ILE:HG12	4:ME:421:ALA:HB1	1.75	0.69
3:ML:182:PRO:HB2	3:ML:388:MET:HE1	1.75	0.69
4:MM:108:TYR:O	4:MM:112:LYS:NZ	2.23	0.69
3:ND:48:ASN:O	3:ND:62:ARG:NH2	2.25	0.69
3:ND:316:VAL:HG22	3:ND:352:ALA:HB3	1.75	0.69
3:NF:170:VAL:N	3:NF:202:ILE:O	2.22	0.69
3:NF:316:VAL:HG22	3:NF:352:ALA:HB3	1.74	0.69
3:OB:296:ALA:HA	3:OB:299:MET:HE3	1.74	0.69
3:OD:302:ALA:HB1	3:OD:377:LEU:HD11	1.74	0.69
4:OE:208:ALA:H	4:OE:304:LYS:HZ1	1.39	0.69
3:PB:322:SER:OG	3:PB:324:LYS:NZ	2.25	0.69
3:PD:278:SER:HA	3:PD:281:TYR:HB2	1.74	0.69
3:PF:252:LYS:O	3:PF:256:ASN:ND2	2.26	0.69
4:PI:115:VAL:HG11	4:PI:152:LEU:HD22	1.75	0.69
3:QB:100:ASN:HB3	3:QB:103:LYS:HB2	1.74	0.69
4:QC:12:ALA:HB2	39:QC:501:GTP:H5"	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:QC:108:TYR:O	4:QC:112:LYS:NZ	2.25	0.69
4:QG:30:ILE:HA	4:QG:36:MET:HE1	1.73	0.69
3:QL:262:ARG:HD2	3:QL:421:GLU:HG3	1.74	0.69
4:RC:208:ALA:H	4:RC:304:LYS:HZ1	1.40	0.69
4:RG:216:ASN:HB2	4:RG:276:ILE:HD12	1.73	0.69
3:RJ:198:GLU:HA	3:RJ:266:PHE:HE2	1.58	0.69
4:RK:358:GLN:NE2	4:RK:359:PRO:O	2.25	0.69
4:SM:9:VAL:HG11	4:SM:150:ALA:HB2	1.75	0.69
3:TJ:328:GLU:OE1	3:TJ:332:ASN:ND2	2.26	0.69
3:UB:84:ILE:O	3:UB:86:ARG:NH1	2.26	0.69
3:UH:273:LEU:H	3:UH:292:GLN:HE22	1.41	0.69
3:VB:132:GLY:HA2	3:VB:162:ARG:HB3	1.75	0.69
3:VB:372:THR:HB	3:VB:375:GLN:HE22	1.57	0.69
4:VC:205:ASP:OD2	4:VC:304:LYS:NZ	2.25	0.69
3:VF:273:LEU:H	3:VF:292:GLN:HE22	1.40	0.69
3:VF:278:SER:HA	3:VF:281:TYR:HB2	1.75	0.69
4:VG:192:HIS:HA	4:VG:195:LEU:HD23	1.75	0.69
3:VH:173:PRO:O	3:VH:380:ARG:NH2	2.26	0.69
3:VL:278:SER:HA	3:VL:281:TYR:HB2	1.74	0.69
3:WD:322:SER:OG	3:WD:324:LYS:NZ	2.25	0.69
3:WF:132:GLY:HA2	3:WF:162:ARG:HB3	1.74	0.69
4:WG:1:MET:SD	4:WG:2:ARG:N	2.66	0.69
4:WI:108:TYR:O	4:WI:112:LYS:NZ	2.22	0.69
34:XD:16:SER:OG	34:XD:163:ARG:NH1	2.26	0.69
35:XH:71:HIS:O	35:XH:77:LYS:NZ	2.26	0.69
36:Z:344:ARG:NH1	36:Z:348:GLU:OE2	2.25	0.69
2:A3:185:ASP:OD1	2:A3:186:ASP:N	2.26	0.69
4:AE:208:ALA:H	4:AE:304:LYS:NZ	1.89	0.69
3:AJ:167:PHE:HD1	3:AJ:200:TYR:HD2	1.40	0.69
5:B8:49:THR:HG23	19:J1:97:ARG:HH21	1.57	0.69
6:C:85:VAL:HG12	6:C:92:LEU:HB2	1.74	0.69
6:C:122:VAL:HG21	6:C:176:PRO:HB2	1.75	0.69
7:C3:236:HIS:HA	7:C3:239:LYS:HD2	1.73	0.69
7:C8:383:LYS:HA	7:C8:386:ILE:HD12	1.74	0.69
8:D7:177:LEU:O	8:D7:180:THR:OG1	2.10	0.69
4:DA:245:ASP:O	4:DA:356:ASN:ND2	2.25	0.69
3:DB:48:ASN:O	3:DB:62:ARG:NH2	2.26	0.69
3:EB:324:LYS:HD2	4:EC:221:ARG:HA	1.75	0.69
4:EI:25:CYS:HB2	4:EI:30:ILE:HB	1.75	0.69
4:FA:5:ILE:HD13	4:FA:64:ARG:HB3	1.73	0.69
4:FA:245:ASP:O	4:FA:356:ASN:ND2	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FC:52:PHE:HZ	4:FC:239:THR:HB	1.55	0.69
4:FG:83:TYR:HB3	4:FG:86:LEU:HD12	1.75	0.69
4:FG:220:GLU:HG2	4:FG:221:ARG:HG2	1.74	0.69
11:Fj:147:SER:HA	12:G:275:LEU:HD21	1.75	0.69
12:G:209:ARG:NH2	3:GJ:276:ARG:O	2.25	0.69
15:H1:306:ARG:O	15:H1:309:GLN:NE2	2.26	0.69
4:IA:185:TYR:OH	4:IA:403:ALA:O	2.11	0.69
3:IJ:324:LYS:HD2	4:IK:221:ARG:HA	1.74	0.69
4:IM:185:TYR:OH	4:IM:403:ALA:O	2.11	0.69
4:JI:54:SER:HB2	4:JI:62:VAL:HB	1.72	0.69
4:JI:108:TYR:O	4:JI:112:LYS:NZ	2.23	0.69
3:JL:284:LEU:HD23	3:JL:363:MET:HE2	1.74	0.69
21:K2:128:ALA:HA	21:K2:131:ARG:HH21	1.58	0.69
21:K2:211:ARG:HH12	21:K2:215:LYS:HB2	1.58	0.69
4:KC:244:PHE:HB2	4:KC:356:ASN:HD21	1.58	0.69
3:LB:309:ARG:HE	3:LB:426:GLN:HG2	1.58	0.69
3:MD:4:ILE:HD11	3:MD:131:GLN:HB2	1.74	0.69
3:MH:101:TRP:HB2	3:MH:184:ASN:HD22	1.58	0.69
4:OE:53:PHE:O	4:OE:64:ARG:NH1	2.26	0.69
4:OG:216:ASN:HB2	4:OG:276:ILE:HD12	1.75	0.69
4:OI:115:VAL:HG11	4:OI:152:LEU:HD22	1.75	0.69
4:OI:338:LYS:HZ2	4:OI:340:THR:H	1.40	0.69
4:PE:103:TYR:HB2	4:PE:186:ASN:HB2	1.74	0.69
4:PM:192:HIS:HA	4:PM:195:LEU:HD23	1.75	0.69
3:QD:83:GLN:O	3:QD:86:ARG:NH2	2.26	0.69
3:QF:322:SER:OG	3:QF:324:LYS:NZ	2.25	0.69
3:QH:250:LEU:O	3:QH:254:ALA:N	2.23	0.69
3:QJ:311:LEU:O	3:QJ:348:ASN:ND2	2.26	0.69
39:RL:501:GTP:O3G	39:RL:501:GTP:O3'	2.08	0.69
4:RM:338:LYS:HZ2	4:RM:340:THR:H	1.40	0.69
3:SD:309:ARG:HE	3:SD:426:GLN:HE21	1.39	0.69
4:SE:204:VAL:HA	4:SE:302:MET:HE1	1.74	0.69
3:TB:182:PRO:HB2	3:TB:388:MET:HE1	1.73	0.69
4:UA:205:ASP:OD2	4:UA:304:LYS:NZ	2.21	0.69
4:UI:208:ALA:H	4:UI:304:LYS:HZ1	1.41	0.69
3:WJ:216:LYS:O	3:WJ:276:ARG:NH2	2.26	0.69
37:YG:33:ARG:NH2	37:YG:134:TYR:OH	2.26	0.69
2:A2:144:HIS:HA	2:A2:147:MET:HE3	1.74	0.69
3:AF:267:MET:O	3:AF:369:GLY:N	2.23	0.69
4:AG:154:MET:HE3	4:AG:194:THR:HG22	1.75	0.69
4:AG:154:MET:HE1	4:AG:197:HIS:HB2	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B4:228:ARG:NH2	5:B4:232:GLU:OE2	2.26	0.69
3:BB:250:LEU:O	3:BB:254:ALA:N	2.23	0.69
3:BH:48:ASN:HD21	15:H4:23:PHE:HB2	1.56	0.69
3:DD:3:GLU:HG2	3:DD:130:LEU:HD23	1.74	0.69
4:DE:388:TRP:HB3	4:DE:425:LEU:HD11	1.74	0.69
3:DJ:4:ILE:HD11	3:DJ:131:GLN:HB2	1.75	0.69
10:E2:123:ILE:HG22	10:E2:124:THR:HG23	1.75	0.69
11:F2:361:LEU:O	11:F2:448:LYS:NZ	2.25	0.69
3:FJ:132:GLY:HA2	3:FJ:162:ARG:HB3	1.75	0.69
12:G:190:LEU:O	12:G:193:GLN:NE2	2.26	0.69
15:H1:13:GLU:HG2	15:H1:40:ALA:HA	1.75	0.69
3:HD:412:GLU:OE1	3:HD:416:ASN:ND2	2.26	0.69
3:HH:309:ARG:H	3:HH:372:THR:HG1	1.38	0.69
3:HL:48:ASN:O	3:HL:62:ARG:NH2	2.27	0.69
3:HL:99:ASN:HD22	3:HL:142:GLY:HA3	1.56	0.69
4:IG:419:SER:HA	4:IG:422:ARG:HE	1.58	0.69
4:IK:210:TYR:OH	4:IK:221:ARG:NH2	2.25	0.69
19:J2:45:ASN:O	19:J2:100:ARG:NH1	2.23	0.69
4:JA:154:MET:HE3	4:JA:194:THR:HG22	1.75	0.69
4:JE:216:ASN:HB2	4:JE:276:ILE:HD12	1.74	0.69
4:JI:371:VAL:HG11	4:JI:374:ALA:HB2	1.74	0.69
21:K2:390:ARG:HG3	21:K2:395:ARG:HH21	1.58	0.69
3:KB:66:VAL:HG11	3:KB:147:MET:HE3	1.73	0.69
3:KB:374:ILE:HA	3:KB:377:LEU:HD13	1.75	0.69
22:L3:62:PHE:HD2	22:L3:63:LEU:HG	1.58	0.69
3:LB:295:ASP:HB2	3:LB:298:ASN:HB2	1.75	0.69
3:LD:135:LEU:HD21	3:LD:151:LEU:HD11	1.75	0.69
4:LI:419:SER:O	4:LI:422:ARG:HG3	1.93	0.69
26:N3:71:LEU:HG	26:N3:75:LEU:HD23	1.74	0.69
3:NF:132:GLY:HA2	3:NF:162:ARG:HB3	1.74	0.69
4:NI:108:TYR:O	4:NI:112:LYS:NZ	2.24	0.69
4:OC:207:GLU:HB2	4:OC:304:LYS:HZ1	1.57	0.69
4:PA:264:ARG:HG2	4:PA:265:ILE:H	1.58	0.69
4:QC:54:SER:HB2	4:QC:62:VAL:HB	1.74	0.69
4:QI:54:SER:HB2	4:QI:62:VAL:HB	1.73	0.69
4:RK:12:ALA:HB1	39:RK:501:GTP:C2	2.28	0.69
4:TG:234:ILE:HD11	4:TG:272:TYR:HB2	1.75	0.69
4:VA:358:GLN:NE2	4:VA:359:PRO:O	2.26	0.69
4:VK:53:PHE:O	4:VK:64:ARG:NH1	2.26	0.69
3:WF:372:THR:HB	3:WF:375:GLN:HE22	1.57	0.69
4:WI:318:LEU:O	4:WI:320:ARG:NH1	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:YK:29:LEU:HB3	37:YK:33:ARG:HH12	1.57	0.69
39:AJ:501:GTP:O3G	39:AJ:501:GTP:O3'	2.10	0.68
3:AL:182:PRO:HB2	3:AL:388:MET:HE1	1.75	0.68
3:AL:309:ARG:H	3:AL:372:THR:HG1	1.41	0.68
5:B1:360:GLN:OE1	8:D4:239:GLN:NE2	2.26	0.68
5:B6:267:LYS:O	5:B6:270:ARG:HG2	1.93	0.68
4:BI:88:HIS:CE1	4:BI:121:ARG:HH22	2.10	0.68
3:BJ:374:ILE:HG23	3:BJ:377:LEU:HD12	1.74	0.68
4:CI:101:ASN:HB3	4:CI:182:VAL:HG11	1.74	0.68
4:CI:313:MET:HE3	4:CI:380:ASN:HB3	1.75	0.68
8:D8:307:ARG:NH1	8:D8:310:GLU:OE1	2.26	0.68
3:DJ:347:ASN:ND2	4:DK:176:GLN:O	2.24	0.68
3:EB:16:ILE:HD13	3:EB:226:ASN:HD22	1.56	0.68
3:ED:12:CYS:SG	3:ED:222:TYR:OH	2.48	0.68
4:EG:30:ILE:HA	4:EG:36:MET:HE1	1.74	0.68
4:EG:32:PRO:O	4:EG:85:GLN:NE2	2.26	0.68
3:EL:296:ALA:HA	3:EL:299:MET:HE3	1.75	0.68
11:F1:340:ASN:OD1	11:F1:473:ARG:NH2	2.26	0.68
3:FH:111:GLU:HG2	3:FH:112:LEU:HD12	1.75	0.68
3:FL:173:PRO:O	3:FL:380:ARG:NH2	2.25	0.68
11:Fe:156:LEU:HD12	11:Fe:257:LYS:HE3	1.75	0.68
11:Fi:330:ASP:HB3	11:Fi:334:LYS:HZ3	1.59	0.68
11:Fl:319:GLU:O	11:Fl:323:HIS:ND1	2.24	0.68
12:G:40:ILE:O	12:G:43:SER:OG	2.10	0.68
4:GK:46:ASP:OD1	25:N:86:GLN:NE2	2.25	0.68
4:IM:108:TYR:O	4:IM:112:LYS:NZ	2.21	0.68
3:JF:374:ILE:HA	3:JF:377:LEU:HD13	1.74	0.68
3:KF:170:VAL:N	3:KF:202:ILE:O	2.26	0.68
4:LA:30:ILE:HA	4:LA:36:MET:HE1	1.75	0.68
3:LD:12:CYS:HB3	39:LD:501:GTP:H5'	1.75	0.68
3:LH:141:GLY:HA3	39:LH:501:GTP:H5"	1.75	0.68
4:LI:49:PHE:HB2	4:LI:53:PHE:HB2	1.75	0.68
4:LI:224:TYR:HA	4:LI:227:LEU:HB2	1.75	0.68
4:MI:9:VAL:HG11	4:MI:150:ALA:HB2	1.74	0.68
4:MK:108:TYR:O	4:MK:112:LYS:NZ	2.23	0.68
3:NL:412:GLU:OE1	3:NL:416:ASN:ND2	2.26	0.68
3:OB:278:SER:HA	3:OB:281:TYR:HB2	1.74	0.68
3:OB:324:LYS:NZ	4:OC:222:PRO:O	2.18	0.68
4:OK:220:GLU:HG2	4:OK:221:ARG:HG2	1.75	0.68
3:PH:316:VAL:HG22	3:PH:352:ALA:HB3	1.75	0.68
27:Q:89:GLN:OE1	27:Q:92:ARG:NH2	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:Q1:1402:SER:HA	30:Q1:1406:LEU:HB3	1.75	0.68
3:QF:4:ILE:HD11	3:QF:131:GLN:HB2	1.75	0.68
3:QH:48:ASN:O	3:QH:62:ARG:NH2	2.26	0.68
4:QI:25:CYS:HB2	4:QI:30:ILE:HB	1.73	0.68
3:QJ:322:SER:OG	3:QJ:324:LYS:NZ	2.26	0.68
4:RG:220:GLU:HG2	4:RG:221:ARG:HG2	1.73	0.68
3:RJ:32:PRO:O	3:RJ:83:GLN:NE2	2.26	0.68
4:RM:52:PHE:HZ	4:RM:239:THR:HB	1.58	0.68
4:SG:60:LYS:HD3	4:TG:283:HIS:HB2	1.75	0.68
4:SG:396:ASP:OD1	4:SG:397:LEU:N	2.26	0.68
3:TD:211:CYS:HA	3:TD:215:LEU:HB2	1.74	0.68
4:TE:273:ALA:HB2	4:TE:295:CYS:HB3	1.74	0.68
4:TI:271:THR:HB	4:TI:377:MET:HB3	1.75	0.68
3:UB:250:LEU:O	3:UB:254:ALA:N	2.22	0.68
4:UE:30:ILE:HA	4:UE:36:MET:HE1	1.74	0.68
3:UH:392:LYS:HB2	3:UH:395:LEU:HD13	1.74	0.68
3:VB:372:THR:HG21	3:VB:426:GLN:HG3	1.75	0.68
3:VF:290:THR:HG21	3:VF:329:GLN:HB3	1.74	0.68
4:VG:216:ASN:HB2	4:VG:276:ILE:HD12	1.75	0.68
3:WD:292:GLN:O	3:WD:298:ASN:ND2	2.26	0.68
3:WH:385:PHE:HA	3:WH:388:MET:HE2	1.76	0.68
37:YP:127:CYS:SG	37:YP:128:ASP:N	2.62	0.68
37:YR:114:ARG:NH2	37:YR:133:HIS:O	2.27	0.68
37:YW:5:LYS:HG3	37:YW:9:ARG:HH11	1.57	0.68
3:AB:163:ILE:HD13	3:AB:250:LEU:HB2	1.75	0.68
3:AH:48:ASN:O	3:AH:62:ARG:NH2	2.27	0.68
3:AJ:77:ARG:O	3:AJ:77:ARG:NH1	2.25	0.68
1:B:409:GLU:HA	1:B:412:ILE:HD12	1.73	0.68
5:B8:44:ILE:HD11	7:C1:126:ARG:HH22	1.58	0.68
3:BF:309:ARG:HE	3:BF:426:GLN:HE21	1.41	0.68
4:BM:192:HIS:HA	4:BM:195:LEU:HD23	1.76	0.68
7:C3:284:PHE:CZ	7:C4:401:ASP:HB2	2.28	0.68
7:C4:284:PHE:CE1	7:C5:397:GLN:HG2	2.27	0.68
7:C6:283:TYR:HB2	7:C7:394:LYS:HE2	1.73	0.68
3:CB:317:PHE:O	3:CB:354:CYS:N	2.26	0.68
4:CC:88:HIS:CE1	4:CC:121:ARG:HH22	2.11	0.68
4:DA:89:PRO:HD3	4:EA:283:HIS:HE1	1.59	0.68
4:DC:171:ILE:HD12	4:DC:204:VAL:HG13	1.75	0.68
4:DE:46:ASP:OD1	4:DE:50:ASN:ND2	2.27	0.68
3:EF:392:LYS:HB2	3:EF:395:LEU:HD13	1.75	0.68
4:EK:108:TYR:O	4:EK:112:LYS:NZ	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:F3:433:ARG:HH21	11:F4:120:SER:HB3	1.58	0.68
3:FD:77:ARG:O	3:FD:77:ARG:NH1	2.23	0.68
3:FH:412:GLU:OE1	3:FH:416:ASN:ND2	2.25	0.68
11:Fl:145:ARG:NH2	11:Fl:290:VAL:O	2.26	0.68
11:Fl:439:ASP:O	11:Fl:442:GLN:NE2	2.25	0.68
14:G4:201:ARG:O	14:G4:205:GLU:N	2.27	0.68
4:GE:172:TYR:HB2	4:GE:203:MET:HB2	1.74	0.68
4:GI:419:SER:HA	4:GI:422:ARG:HE	1.58	0.68
3:HB:55:THR:O	3:HB:58:LYS:NZ	2.25	0.68
4:HC:308:ARG:HH22	4:HC:341:ILE:HD13	1.59	0.68
3:HH:262:ARG:NH2	3:HH:425:TYR:OH	2.26	0.68
3:ID:170:VAL:N	3:ID:202:ILE:O	2.26	0.68
18:J:117:ARG:HG2	18:J:126:TRP:HB3	1.75	0.68
4:JC:271:THR:OG1	4:JC:301:GLN:NE2	2.25	0.68
4:JG:388:TRP:HB3	4:JG:425:LEU:HD11	1.76	0.68
21:K4:189:GLU:HG2	21:K4:190:LYS:H	1.58	0.68
3:KF:398:TYR:HB3	3:KF:403:MET:HB2	1.76	0.68
3:LJ:211:CYS:HA	3:LJ:215:LEU:HB2	1.75	0.68
3:MH:46:ARG:HH22	4:MI:73:THR:HG23	1.57	0.68
4:MI:49:PHE:HB2	4:MI:53:PHE:HB2	1.74	0.68
3:ND:156:ARG:NH1	3:ND:195:ASN:O	2.26	0.68
3:NL:11:GLN:NE2	39:NL:501:GTP:O1G	2.22	0.68
4:OA:229:ARG:HE	4:OA:368:LEU:HD22	1.57	0.68
3:OJ:132:GLY:HA2	3:OJ:162:ARG:HB3	1.74	0.68
29:P3:122:ASN:ND2	29:P3:171:ASP:OD2	2.24	0.68
4:PM:84:ARG:HH22	37:YV:124:HIS:HA	1.56	0.68
3:QD:119:VAL:HA	3:QD:122:LYS:HE2	1.75	0.68
3:QD:247:ASN:HB3	3:QD:252:LYS:HG2	1.75	0.68
4:QM:9:VAL:HG22	4:QM:146:GLY:HA2	1.75	0.68
3:RB:278:SER:HA	3:RB:281:TYR:HB2	1.73	0.68
4:RC:279:GLU:HB3	37:YB:128:ASP:H	1.58	0.68
3:RH:107:THR:OG1	3:RH:401:GLU:OE2	2.11	0.68
4:SG:220:GLU:HG2	4:SG:221:ARG:HG2	1.75	0.68
4:SK:154:MET:HE1	4:SK:194:THR:HA	1.75	0.68
4:TE:208:ALA:H	4:TE:304:LYS:HZ1	1.40	0.68
4:UG:192:HIS:HA	4:UG:195:LEU:HD23	1.75	0.68
3:VB:374:ILE:HA	3:VB:377:LEU:HD13	1.75	0.68
3:VD:372:THR:HG21	3:VD:426:GLN:HG3	1.75	0.68
3:VL:372:THR:HG21	3:VL:426:GLN:HG3	1.74	0.68
3:WB:374:ILE:HA	3:WB:377:LEU:HD13	1.75	0.68
3:WJ:372:THR:HG21	3:WJ:426:GLN:HG3	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:YE:115:ALA:HB2	37:YE:143:ILE:HD11	1.73	0.68
37:YS:50:GLN:NE2	37:YS:70:MET:SD	2.66	0.68
37:YW:33:ARG:NH2	37:YW:134:TYR:OH	2.26	0.68
3:AH:412:GLU:OE1	3:AH:416:ASN:ND2	2.25	0.68
4:AK:402:ARG:CZ	35:XL:234:THR:HG23	2.24	0.68
5:B2:12:TYR:HE2	5:B2:17:TRP:HB2	1.58	0.68
3:BH:211:CYS:HA	3:BH:215:LEU:HB2	1.75	0.68
4:BI:216:ASN:HB2	4:BI:276:ILE:HD12	1.76	0.68
6:C:148:THR:HG23	6:C:249:PRO:HG3	1.76	0.68
3:CB:8:GLN:HE21	3:CB:65:LEU:HA	1.57	0.68
4:CM:204:VAL:HG23	4:CM:302:MET:HG3	1.75	0.68
7:Cc:182:GLU:HA	7:Cc:185:LEU:HD12	1.73	0.68
8:D2:224:ILE:HG22	8:D3:360:ARG:HH22	1.58	0.68
4:DI:285:GLN:HE22	4:DI:287:SER:HB3	1.59	0.68
3:DJ:48:ASN:O	3:DJ:62:ARG:NH2	2.24	0.68
4:FA:25:CYS:HB2	4:FA:30:ILE:HB	1.76	0.68
13:G2:245:PHE:HB2	13:G2:264:ILE:HB	1.76	0.68
14:G5:470:GLU:OE1	14:G5:475:ASN:ND2	2.25	0.68
3:GJ:269:GLY:HA2	3:GJ:300:MET:HE1	1.75	0.68
4:HG:88:HIS:HB3	4:HG:91:GLN:HB2	1.76	0.68
3:HJ:252:LYS:O	3:HJ:256:ASN:ND2	2.26	0.68
4:IK:338:LYS:HZ2	4:IK:340:THR:H	1.40	0.68
19:J3:45:ASN:O	19:J3:100:ARG:NH1	2.22	0.68
3:JD:46:ARG:HH22	4:JE:73:THR:HA	1.59	0.68
3:JD:289:LEU:HD21	3:JD:363:MET:HB3	1.75	0.68
4:LE:358:GLN:NE2	4:LE:359:PRO:O	2.26	0.68
4:LI:370:LYS:NZ	27:R:284:ILE:O	2.25	0.68
24:M3:63:ASN:H	24:M3:67:ARG:HH21	1.40	0.68
3:MH:417:ASP:OD2	30:Q2:1455:ARG:NH2	2.25	0.68
4:MI:205:ASP:OD2	4:MI:304:LYS:NZ	2.24	0.68
3:ND:4:ILE:HD11	3:ND:131:GLN:HB2	1.75	0.68
4:OG:392:ASP:O	4:OG:396:ASP:N	2.24	0.68
3:OH:4:ILE:HD11	3:OH:131:GLN:HB2	1.73	0.68
4:PG:125:LEU:HD13	4:PG:128:LEU:HD21	1.74	0.68
3:PL:385:PHE:HZ	3:PL:408:PHE:HB3	1.57	0.68
30:Q1:1452:ARG:NH1	30:Q1:1456:ARG:HB2	2.09	0.68
3:RF:213:ARG:O	3:RF:216:LYS:NZ	2.27	0.68
3:RF:324:LYS:NZ	4:RG:222:PRO:O	2.23	0.68
4:RI:115:VAL:HG21	4:RI:156:ARG:HH21	1.57	0.68
4:RM:220:GLU:HG2	4:RM:221:ARG:HG2	1.75	0.68
4:SC:54:SER:HB2	4:SC:62:VAL:HB	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:SK:220:GLU:HG2	4:SK:221:ARG:HG2	1.75	0.68
3:SL:48:ASN:O	3:SL:62:ARG:NH2	2.26	0.68
3:TD:48:ASN:O	3:TD:62:ARG:NH2	2.26	0.68
4:UC:25:CYS:HB2	4:UC:30:ILE:HB	1.75	0.68
4:UI:358:GLN:NE2	4:UI:359:PRO:O	2.26	0.68
3:UJ:372:THR:HG21	3:UJ:426:GLN:HG3	1.76	0.68
4:VC:203:MET:HE1	4:VC:267:PHE:HB3	1.73	0.68
4:VE:46:ASP:OD1	4:VE:50:ASN:ND2	2.27	0.68
4:VG:346:TRP:HB3	3:VH:391:ARG:CZ	2.22	0.68
4:WA:192:HIS:HA	4:WA:195:LEU:HD23	1.75	0.68
34:XE:102:ARG:HE	34:XE:153:ARG:HH22	1.41	0.68
34:XF:113:ARG:HE	34:XF:114:VAL:H	1.40	0.68
1:A:210:LEU:HA	1:A:213:LYS:HZ2	1.57	0.68
3:AB:48:ASN:O	3:AB:62:ARG:NH2	2.24	0.68
6:C:294:ASN:HB2	6:C:325:PRO:HA	1.75	0.68
3:CB:412:GLU:OE1	3:CB:416:ASN:ND2	2.26	0.68
3:CD:374:ILE:HA	3:CD:377:LEU:HD13	1.76	0.68
3:CF:269:GLY:HA2	3:CF:300:MET:HE1	1.76	0.68
3:CH:12:CYS:HA	3:CH:15:GLN:HG2	1.74	0.68
3:CH:350:LYS:HZ1	4:CI:181:VAL:N	1.92	0.68
7:Ca:383:LYS:O	7:Ca:387:LYS:NZ	2.26	0.68
6:D:264:LYS:HE3	6:D:321:LEU:HD21	1.73	0.68
8:D7:363:ARG:NH2	8:D8:228:CYS:SG	2.66	0.68
3:DB:278:SER:HA	3:DB:281:TYR:HB2	1.76	0.68
9:F:340:TYR:OH	4:IK:278:ALA:O	2.12	0.68
11:F7:296:TRP:NE1	11:F8:405:VAL:O	2.27	0.68
11:F9:388:PRO:HA	11:F9:391:MET:SD	2.33	0.68
4:FE:32:PRO:O	4:FE:85:GLN:NE2	2.27	0.68
4:FK:156:ARG:HA	4:FK:159:VAL:HG22	1.74	0.68
3:GB:178:THR:HB	3:GB:181:GLU:HG3	1.75	0.68
3:GJ:227:HIS:HE1	25:N:36:VAL:HG12	1.56	0.68
15:H3:227:ARG:NH1	15:H3:229:ALA:O	2.25	0.68
3:HB:16:ILE:HG13	3:HB:226:ASN:HD22	1.57	0.68
3:HL:5:VAL:HG23	3:HL:130:LEU:HD21	1.75	0.68
4:IA:245:ASP:O	4:IA:356:ASN:ND2	2.26	0.68
4:JC:216:ASN:HB2	4:JC:276:ILE:HD12	1.75	0.68
3:JH:374:ILE:HA	3:JH:377:LEU:HD13	1.75	0.68
21:K2:151:LEU:HG	21:K2:227:LEU:HD13	1.75	0.68
21:K4:421:LEU:O	21:K4:425:HIS:ND1	2.25	0.68
3:KB:4:ILE:HD11	3:KB:131:GLN:HB2	1.74	0.68
3:KH:271:ALA:HA	3:KH:293:MET:HE1	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KL:132:GLY:HA2	3:KL:162:ARG:HB3	1.76	0.68
3:LB:77:ARG:O	3:LB:77:ARG:NH1	2.22	0.68
3:LF:322:SER:OG	3:LF:324:LYS:NZ	2.26	0.68
3:MD:278:SER:HA	3:MD:281:TYR:HB2	1.73	0.68
3:MJ:4:ILE:HD11	3:MJ:131:GLN:HB2	1.75	0.68
4:MM:216:ASN:HB2	4:MM:276:ILE:HD12	1.73	0.68
4:NE:67:PHE:HB2	4:NE:92:LEU:HD13	1.74	0.68
3:NH:302:ALA:HB1	3:NH:377:LEU:HD11	1.75	0.68
27:O:26:GLN:HA	27:O:29:ILE:HG12	1.76	0.68
3:OD:170:VAL:N	3:OD:202:ILE:O	2.26	0.68
29:P3:192:ARG:NH1	4:VK:38:SER:OG	2.27	0.68
4:PC:210:TYR:HE1	4:PC:227:LEU:HD11	1.58	0.68
3:PH:293:MET:HE3	3:PH:367:PHE:HB2	1.75	0.68
4:PI:125:LEU:HD13	4:PI:128:LEU:HD21	1.75	0.68
3:PL:132:GLY:HA2	3:PL:162:ARG:HB3	1.75	0.68
3:PL:372:THR:HB	3:PL:375:GLN:HE22	1.58	0.68
4:PM:216:ASN:HB2	4:PM:276:ILE:HD12	1.74	0.68
4:RC:388:TRP:HB3	4:RC:425:LEU:HD11	1.74	0.68
3:RH:5:VAL:HG23	3:RH:130:LEU:HD21	1.75	0.68
4:SI:392:ASP:O	4:SI:396:ASP:N	2.25	0.68
3:TH:60:VAL:HG23	3:TH:86:ARG:HH11	1.59	0.68
4:UI:229:ARG:HE	4:UI:368:LEU:HD22	1.58	0.68
3:VF:412:GLU:OE1	3:VF:416:ASN:ND2	2.26	0.68
4:WI:12:ALA:HB2	39:WI:501:GTP:H5"	1.73	0.68
3:WJ:60:VAL:HG23	3:WJ:86:ARG:HH11	1.58	0.68
33:X:462:GLN:OE1	33:X:466:LYS:NZ	2.25	0.68
2:A1:214:LEU:HA	2:A1:217:TRP:CE3	2.29	0.68
4:AI:32:PRO:O	4:AI:85:GLN:NE2	2.25	0.68
3:BB:83:GLN:O	3:BB:86:ARG:NH2	2.26	0.68
4:BK:49:PHE:O	4:BK:53:PHE:N	2.27	0.68
4:CG:216:ASN:ND2	4:CG:275:VAL:O	2.26	0.68
4:CG:244:PHE:HB2	4:CG:356:ASN:HD21	1.59	0.68
4:CM:229:ARG:HH12	4:CM:366:GLY:HA2	1.58	0.68
8:D2:427:ARG:NH2	4:LA:38:SER:O	2.21	0.68
8:D8:269:GLU:HG2	8:D8:272:ARG:HH21	1.59	0.68
4:DE:8:HIS:CE1	4:DE:21:TRP:HH2	2.11	0.68
10:E3:151:VAL:HG23	10:E3:152:THR:HG22	1.75	0.68
3:EJ:423:GLN:O	3:EJ:427:ASP:N	2.26	0.68
3:FJ:309:ARG:HE	3:FJ:426:GLN:HE21	1.40	0.68
11:Fa:356:LYS:HG3	11:Fa:360:GLN:HE22	1.59	0.68
11:Fb:411:VAL:HG23	11:Fb:412:PRO:CD	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G5:33:ARG:NH1	3:MH:92:PHE:O	2.26	0.68
4:GK:12:ALA:O	39:GK:501:GTP:N1	2.27	0.68
16:I:162:GLN:NE2	4:JE:364:PRO:O	2.27	0.68
3:ID:385:PHE:HA	3:ID:388:MET:HE2	1.75	0.68
4:IK:271:THR:HA	4:IK:302:MET:HE1	1.73	0.68
3:IL:247:ASN:HB3	3:IL:252:LYS:HG2	1.75	0.68
4:JE:208:ALA:H	4:JE:304:LYS:HZ1	1.41	0.68
22:L3:129:ARG:CZ	4:LK:90:GLU:HA	2.23	0.68
3:LL:39:ASP:OD1	3:LL:43:GLN:NE2	2.26	0.68
3:MJ:292:GLN:O	3:MJ:298:ASN:ND2	2.26	0.68
3:ML:309:ARG:HE	3:ML:426:GLN:HE21	1.41	0.68
4:NE:50:ASN:O	4:NE:64:ARG:NH1	2.26	0.68
4:NE:274:PRO:HG3	4:NE:374:ALA:HA	1.76	0.68
4:NI:338:LYS:HZ2	4:NI:340:THR:H	1.41	0.68
27:P:162:TRP:O	27:P:165:GLN:NE2	2.26	0.68
30:Q2:1471:VAL:HG12	30:Q2:1475:ARG:HE	1.56	0.68
4:QC:154:MET:HE1	4:QC:197:HIS:HB2	1.74	0.68
3:QH:4:ILE:HD11	3:QH:131:GLN:HB2	1.75	0.68
4:QI:12:ALA:HB2	39:QI:501:GTP:H5"	1.76	0.68
4:QM:30:ILE:HA	4:QM:36:MET:HE1	1.76	0.68
31:R2:260:ALA:O	31:R2:264:HIS:ND1	2.25	0.68
4:RC:338:LYS:HZ2	4:RC:340:THR:H	1.39	0.68
3:RL:173:PRO:O	3:RL:380:ARG:NH2	2.26	0.68
3:RL:246:LEU:HB2	3:RL:352:ALA:HB1	1.75	0.68
3:SF:412:GLU:OE1	3:SF:416:ASN:ND2	2.26	0.68
3:SH:178:THR:HB	3:SH:181:GLU:HG3	1.76	0.68
4:SK:262:TYR:OH	3:SL:391:ARG:O	2.11	0.68
3:TF:107:THR:OG1	3:TF:401:GLU:OE2	2.12	0.68
3:TJ:132:GLY:HA2	3:TJ:162:ARG:HB3	1.74	0.68
3:UH:250:LEU:O	3:UH:254:ALA:N	2.23	0.68
3:VD:357:PRO:HB3	3:VD:362:LYS:HA	1.75	0.68
3:VF:12:CYS:HB3	39:VF:501:GTP:H5'	1.75	0.68
4:AE:25:CYS:HB2	4:AE:30:ILE:HB	1.73	0.68
4:AE:215:ARG:HA	26:N2:89:LYS:HE3	1.74	0.68
4:AG:208:ALA:H	4:AG:304:LYS:HZ1	1.42	0.68
3:AH:247:ASN:HB3	3:AH:252:LYS:HG2	1.75	0.68
4:AI:25:CYS:HB2	4:AI:30:ILE:HB	1.74	0.68
4:AI:285:GLN:HE22	4:AI:287:SER:HB3	1.58	0.68
3:BB:346:PRO:HD2	4:BC:398:MET:HE1	1.75	0.68
3:BD:250:LEU:O	3:BD:254:ALA:N	2.24	0.68
4:BK:208:ALA:H	4:BK:304:LYS:HZ1	1.41	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C3:141:HIS:HB3	7:C4:419:ARG:HH22	1.58	0.68
7:C6:93:ARG:N	8:D2:245:SER:OG	2.27	0.68
3:CJ:5:VAL:HG23	3:CJ:130:LEU:HD11	1.76	0.68
6:D:261:CYS:N	6:D:329:ILE:O	2.26	0.68
4:DG:269:LEU:N	4:DG:379:SER:O	2.25	0.68
4:DI:9:VAL:HG11	4:DI:150:ALA:HB2	1.75	0.68
3:DJ:36:TYR:O	15:H6:317:HIS:NE2	2.22	0.68
3:EB:222:TYR:HA	3:EB:225:LEU:HD13	1.76	0.68
3:ED:412:GLU:OE1	3:ED:416:ASN:ND2	2.27	0.68
3:EH:4:ILE:HD11	3:EH:131:GLN:HB2	1.75	0.68
3:FB:211:CYS:HA	3:FB:215:LEU:HB2	1.74	0.68
11:Fb:433:ARG:NH2	11:Fc:119:ASP:O	2.26	0.68
3:GF:60:VAL:HG23	3:GF:86:ARG:HH11	1.59	0.68
15:H2:13:GLU:HG2	15:H2:40:ALA:HA	1.75	0.68
3:HF:33:THR:O	3:HF:58:LYS:NZ	2.26	0.68
3:HF:374:ILE:HG23	3:HF:377:LEU:HD12	1.75	0.68
3:HL:83:GLN:O	3:HL:86:ARG:NH2	2.27	0.68
3:IF:322:SER:OG	3:IF:324:LYS:NZ	2.27	0.68
4:IK:67:PHE:HB2	4:IK:92:LEU:HD13	1.75	0.68
4:JA:89:PRO:HD2	4:KA:280:LYS:HZ3	1.59	0.68
3:JH:182:PRO:HB2	3:JH:388:MET:HE1	1.75	0.68
21:K2:492:SER:O	3:LD:340:TYR:OH	2.12	0.68
4:KA:54:SER:HB2	4:KA:62:VAL:HB	1.74	0.68
22:L3:109:ASN:ND2	3:LJ:425:TYR:OH	2.25	0.68
4:LI:358:GLN:NE2	4:LI:359:PRO:O	2.26	0.68
4:MG:108:TYR:O	4:MG:112:LYS:NZ	2.22	0.68
4:NA:108:TYR:O	4:NA:112:LYS:NZ	2.23	0.68
29:P2:49:ILE:HB	29:P2:58:ASN:HB2	1.74	0.68
4:PK:205:ASP:OD2	4:PK:304:LYS:NZ	2.25	0.68
30:Q1:1415:MET:HE3	30:Q1:1418:MET:HE2	1.75	0.68
3:QD:372:THR:HG21	3:QD:426:GLN:HG3	1.75	0.68
3:QF:278:SER:HA	3:QF:281:TYR:HB2	1.75	0.68
31:R1:258:GLN:OE1	31:R1:262:LYS:NZ	2.27	0.68
4:RI:54:SER:HB2	4:RI:62:VAL:HB	1.75	0.68
3:TD:170:VAL:N	3:TD:202:ILE:O	2.24	0.68
3:TF:316:VAL:HG22	3:TF:352:ALA:HB3	1.75	0.68
4:TI:220:GLU:HG2	4:TI:221:ARG:HG2	1.75	0.68
4:UE:172:TYR:HD1	4:UE:203:MET:HE3	1.55	0.68
3:VB:289:LEU:HD21	3:VB:363:MET:HB3	1.76	0.68
4:VC:30:ILE:HA	4:VC:36:MET:HE1	1.76	0.68
4:VI:50:ASN:O	4:VI:64:ARG:NH1	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:WF:211:CYS:HA	3:WF:215:LEU:HB2	1.76	0.68
34:XC:106:SER:HB2	34:XC:109:GLN:HG2	1.75	0.68
35:XJ:100:LEU:HD12	35:XJ:115:ILE:HD13	1.75	0.68
36:Z:252:LEU:HA	36:Z:255:LYS:HE3	1.76	0.68
3:AJ:278:SER:HA	3:AJ:281:TYR:HB2	1.73	0.68
5:B1:130:ARG:NH1	5:B2:11:ARG:HB2	2.07	0.68
3:BD:46:ARG:HH12	4:BE:73:THR:HG23	1.59	0.68
3:BF:8:GLN:NE2	3:BF:14:ASN:OD1	2.27	0.68
3:BJ:54:ALA:HB3	3:BJ:58:LYS:HB2	1.76	0.68
7:C8:93:ARG:N	8:D4:245:SER:HG	1.92	0.68
3:CB:327:ASP:HA	3:CB:330:MET:HE3	1.76	0.68
4:CG:367:ASP:OD2	15:H3:33:ASN:ND2	2.26	0.68
3:CL:60:VAL:HG23	3:CL:86:ARG:HH11	1.57	0.68
8:D3:355:THR:HA	8:D3:358:TYR:HB3	1.75	0.68
8:D5:399:GLU:OE1	8:D5:403:ARG:NH2	2.26	0.68
4:DE:108:TYR:O	4:DE:112:LYS:NZ	2.23	0.68
4:DE:244:PHE:HB2	4:DE:356:ASN:HD21	1.58	0.68
4:EC:245:ASP:O	4:EC:356:ASN:ND2	2.27	0.68
4:EE:224:TYR:HA	4:EE:227:LEU:HG	1.74	0.68
4:EI:388:TRP:HB3	4:EI:425:LEU:HD11	1.74	0.68
11:Fc:218:GLU:HB3	11:Fc:335:GLN:HG2	1.75	0.68
13:G2:448:MET:SD	13:G2:469:ARG:HB3	2.32	0.68
14:G4:308:GLY:HA3	14:G4:316:ASP:HA	1.75	0.68
3:GF:111:GLU:HG2	3:GF:112:LEU:HD12	1.76	0.68
4:GG:6:SER:HA	4:GG:136:LEU:HB2	1.75	0.68
3:HD:250:LEU:O	3:HD:254:ALA:N	2.24	0.68
4:HG:245:ASP:O	4:HG:356:ASN:ND2	2.27	0.68
4:HG:261:PRO:HA	3:HH:394:PHE:HE1	1.59	0.68
4:IE:49:PHE:HB2	4:IE:53:PHE:HB2	1.74	0.68
4:II:271:THR:HA	4:II:302:MET:HE1	1.75	0.68
3:JB:412:GLU:OE1	3:JB:416:ASN:ND2	2.27	0.68
3:JF:316:VAL:HG22	3:JF:352:ALA:HB3	1.75	0.68
4:JG:338:LYS:HZ2	4:JG:340:THR:H	1.39	0.68
20:K:216:ALA:HA	20:K:269:LEU:HD11	1.75	0.68
21:K3:403:ARG:NH1	21:K4:242:LEU:O	2.25	0.68
21:K3:492:SER:O	3:LH:340:TYR:OH	2.10	0.68
4:KE:273:ALA:HB2	4:KE:295:CYS:HB3	1.74	0.68
4:KG:216:ASN:HB2	4:KG:276:ILE:HD12	1.76	0.68
4:KK:144:GLY:N	39:KK:501:GTP:O2B	2.27	0.68
22:L1:81:CYS:SG	22:L1:82:SER:N	2.65	0.68
3:LB:357:PRO:HB3	3:LB:362:LYS:HA	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LF:55:THR:O	3:LF:58:LYS:NZ	2.23	0.68
3:LF:211:CYS:HA	3:LF:215:LEU:HB2	1.75	0.68
39:LH:501:GTP:O3G	39:LH:501:GTP:O3'	2.09	0.68
4:LK:67:PHE:HB2	4:LK:92:LEU:HD13	1.76	0.68
4:NK:108:TYR:O	4:NK:112:LYS:NZ	2.25	0.68
28:O1:102:LEU:HD12	28:O1:109:LEU:HG	1.76	0.68
4:OC:54:SER:HB2	4:OC:62:VAL:HB	1.74	0.68
29:P2:390:ILE:HG21	29:P2:432:ILE:HD13	1.76	0.68
29:P2:416:HIS:HD2	29:P2:420:VAL:HG22	1.57	0.68
3:PD:36:TYR:O	37:YG:64:ARG:NH2	2.24	0.68
4:PE:6:SER:HA	4:PE:136:LEU:HB2	1.75	0.68
4:PE:171:ILE:HD12	4:PE:204:VAL:HG13	1.74	0.68
3:PH:211:CYS:HA	3:PH:215:LEU:HB2	1.76	0.68
3:QD:278:SER:HA	3:QD:281:TYR:HB2	1.75	0.68
4:QG:220:GLU:HG2	4:QG:221:ARG:HG2	1.74	0.68
4:RC:33:ASP:HA	37:YA:131:ARG:HE	1.59	0.68
3:RF:173:PRO:O	3:RF:380:ARG:NH2	2.26	0.68
4:RM:9:VAL:HG11	4:RM:150:ALA:HB2	1.75	0.68
4:TC:245:ASP:O	4:TC:356:ASN:ND2	2.27	0.68
4:TE:317:MET:HE1	4:TE:351:PHE:HB2	1.76	0.68
3:UB:357:PRO:HB3	3:UB:362:LYS:HA	1.75	0.68
4:VK:108:TYR:O	4:VK:112:LYS:NZ	2.25	0.68
3:WH:216:LYS:O	3:WH:276:ARG:NH2	2.27	0.68
4:WI:54:SER:HB2	4:WI:62:VAL:HB	1.74	0.68
34:XD:78:MET:H	34:XD:132:ILE:HB	1.59	0.68
35:XJ:153:LEU:HD21	35:XJ:181:LEU:HD11	1.76	0.68
37:YA:33:ARG:NH2	37:YA:134:TYR:OH	2.27	0.68
2:A2:294:LYS:HE2	7:C3:183:ARG:HD3	1.76	0.68
3:AH:376:GLU:HA	3:AH:379:LYS:HE3	1.76	0.68
4:AI:154:MET:HE3	4:AI:194:THR:HG22	1.74	0.68
3:AJ:60:VAL:HG23	3:AJ:86:ARG:HH11	1.59	0.68
4:AK:401:LYS:C	4:AK:402:ARG:HD3	2.19	0.68
4:BE:185:TYR:OH	4:BE:403:ALA:O	2.10	0.68
4:BE:425:LEU:HD13	4:BE:428:LEU:HD12	1.75	0.68
3:BF:91:VAL:HG11	3:BF:116:VAL:HG12	1.75	0.68
3:BF:141:GLY:HA3	39:BF:501:GTP:H5"	1.74	0.68
3:CJ:135:LEU:HD21	3:CJ:151:LEU:HD11	1.75	0.68
3:CL:134:GLN:HB2	3:CL:167:PHE:HE1	1.59	0.68
7:Cb:201:HIS:HB3	7:Cb:472:LYS:HE2	1.74	0.68
8:D3:336:ILE:HG22	8:D3:340:LYS:HZ3	1.58	0.68
8:D7:144:ALA:O	8:D7:148:PRO:HD2	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DE:220:GLU:HG2	4:DE:221:ARG:HG2	1.75	0.68
3:DF:311:LEU:HG	3:DF:312:THR:HG23	1.75	0.68
3:DJ:84:ILE:O	3:DJ:86:ARG:NH1	2.26	0.68
3:DL:174:LYS:HG3	3:DL:175:VAL:HG13	1.76	0.68
10:E3:130:SER:O	10:E3:133:ARG:NH1	2.27	0.68
3:EB:322:SER:OG	3:EB:324:LYS:NZ	2.26	0.68
3:EF:84:ILE:O	3:EF:86:ARG:NH1	2.27	0.68
4:EK:208:ALA:H	4:EK:304:LYS:HZ1	1.42	0.68
11:F2:209:ASP:HB2	11:F2:346:ARG:HH21	1.59	0.68
4:FG:205:ASP:OD2	4:FG:304:LYS:NZ	2.26	0.68
3:FH:173:PRO:O	3:FH:380:ARG:NH2	2.26	0.68
3:FJ:117:LEU:HD11	3:FJ:154:LYS:HD2	1.74	0.68
11:Fc:166:GLU:OE2	11:Fc:314:SER:OG	2.12	0.68
13:G1:179:LYS:NZ	13:G1:180:THR:O	2.27	0.68
4:GG:49:PHE:HB2	4:GG:53:PHE:HB2	1.73	0.68
3:GJ:26:ASP:OD1	3:GJ:27:GLU:N	2.27	0.68
15:H5:214:GLN:OE1	15:H5:215:ARG:NH1	2.27	0.68
3:HB:280:GLN:OE1	3:HB:280:GLN:N	2.25	0.68
4:HI:88:HIS:HB3	4:HI:91:GLN:HB2	1.73	0.68
3:IH:12:CYS:SG	3:IH:13:GLY:N	2.67	0.68
3:IH:269:GLY:HA2	3:IH:300:MET:HE1	1.76	0.68
3:IH:309:ARG:H	3:IH:372:THR:HG1	1.40	0.68
4:JG:30:ILE:HA	4:JG:36:MET:HE1	1.73	0.68
3:JH:316:VAL:HG22	3:JH:352:ALA:HB3	1.74	0.68
21:K3:34:LEU:HB3	21:K3:38:ARG:HH12	1.58	0.68
4:KI:386:GLU:OE1	4:KI:390:ARG:NH2	2.26	0.68
22:L1:70:LYS:NZ	4:LA:406:HIS:O	2.26	0.68
3:LH:12:CYS:SG	3:LH:13:GLY:N	2.66	0.68
4:MC:88:HIS:HB3	4:MC:91:GLN:HB2	1.75	0.68
3:MD:46:ARG:HH12	4:ME:73:THR:HG23	1.59	0.68
3:ML:333:VAL:HA	3:ML:336:LYS:HB3	1.73	0.68
4:NG:108:TYR:O	4:NG:112:LYS:NZ	2.24	0.68
3:NL:385:PHE:HA	3:NL:388:MET:HE2	1.74	0.68
3:OB:156:ARG:NH1	3:OB:195:ASN:O	2.26	0.68
29:P2:116:ALA:HB1	29:P2:164:VAL:HG12	1.76	0.68
4:PG:101:ASN:HA	4:PG:144:GLY:HA2	1.75	0.68
4:PM:161:TYR:O	4:PM:166:LYS:NZ	2.27	0.68
3:QB:33:THR:O	3:QB:58:LYS:NZ	2.26	0.68
3:QJ:278:SER:HA	3:QJ:281:TYR:HB2	1.76	0.68
31:R2:264:HIS:HA	31:R2:267:GLU:HG2	1.75	0.68
4:RC:358:GLN:NE2	4:RC:359:PRO:O	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:RG:316:CYS:HB3	4:RG:378:LEU:HB3	1.73	0.68
3:SF:286:VAL:HG21	3:SF:325:GLU:HG3	1.75	0.68
3:SH:211:CYS:HA	3:SH:215:LEU:HB2	1.75	0.68
3:SH:415:MET:O	3:SH:419:VAL:N	2.22	0.68
3:TL:302:ALA:HB1	3:TL:377:LEU:HD11	1.76	0.68
3:UB:139:LEU:HD21	3:UB:170:VAL:HG22	1.76	0.68
3:UH:170:VAL:N	3:UH:202:ILE:O	2.27	0.68
3:UH:309:ARG:H	3:UH:372:THR:HG1	1.42	0.68
4:UI:32:PRO:O	4:UI:85:GLN:NE2	2.27	0.68
4:UI:53:PHE:O	4:UI:64:ARG:NH1	2.27	0.68
4:VK:52:PHE:HZ	4:VK:239:THR:HB	1.59	0.68
4:WA:204:VAL:HG23	4:WA:302:MET:HG3	1.75	0.68
3:WB:271:ALA:HA	3:WB:293:MET:HE1	1.76	0.68
4:WE:65:ALA:O	4:WE:91:GLN:NE2	2.25	0.68
2:A3:172:GLU:OE1	2:A3:176:ARG:NH2	2.26	0.68
2:A3:353:GLU:O	2:A3:357:GLN:NE2	2.27	0.68
3:AD:101:TRP:HB2	3:AD:184:ASN:HD22	1.59	0.68
4:AK:16:ILE:HD11	4:AK:138:PHE:HB3	1.74	0.68
3:BF:309:ARG:H	3:BF:372:THR:HG1	1.37	0.68
6:C:295:LEU:HD11	6:C:393:LEU:HD13	1.75	0.68
7:C7:296:VAL:HG22	7:C8:413:ARG:HH21	1.59	0.68
4:CC:205:ASP:OD2	4:CC:304:LYS:NZ	2.24	0.68
4:CE:388:TRP:HB3	4:CE:425:LEU:HD11	1.76	0.68
3:CF:412:GLU:OE1	3:CF:416:ASN:ND2	2.27	0.68
3:CH:392:LYS:HB2	3:CH:395:LEU:HD13	1.75	0.68
3:CJ:46:ARG:O	3:CJ:241:ARG:NH1	2.27	0.68
4:CK:220:GLU:O	4:CK:221:ARG:NE	2.26	0.68
4:CK:271:THR:O	4:CK:377:MET:N	2.24	0.68
8:D2:75:GLU:O	8:D2:78:ARG:HG2	1.93	0.68
8:D4:267:ARG:HA	8:D4:270:ARG:HE	1.58	0.68
4:DK:225:THR:O	4:DK:229:ARG:HG3	1.94	0.68
4:EA:438:ASP:HA	3:EB:391:ARG:HH12	1.57	0.68
3:FB:278:SER:HA	3:FB:281:TYR:HB2	1.75	0.68
11:Fb:411:VAL:H	11:Fc:145:ARG:HH21	1.42	0.68
13:G1:245:PHE:HB2	13:G1:264:ILE:HB	1.75	0.68
13:G2:477:SER:OG	13:G2:481:ASN:O	2.11	0.68
13:G3:99:PHE:HE1	13:G3:190:THR:HG21	1.58	0.68
14:G5:132:ARG:HB2	14:G5:134:GLN:HE22	1.58	0.68
3:GB:170:VAL:N	3:GB:202:ILE:O	2.25	0.68
3:GB:278:SER:HA	3:GB:281:TYR:HB2	1.74	0.68
3:GB:344:TRP:O	4:GC:401:LYS:NZ	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:GK:11:GLN:HG2	39:GK:501:GTP:O1B	1.93	0.68
4:GK:53:PHE:O	4:GK:64:ARG:NH1	2.26	0.68
3:HB:328:GLU:OE1	3:HB:332:ASN:ND2	2.27	0.68
4:HE:144:GLY:N	39:HE:501:GTP:O2B	2.27	0.68
4:HG:203:MET:HE1	4:HG:267:PHE:HB3	1.75	0.68
4:HI:236:SER:O	4:HI:243:ARG:NH2	2.24	0.68
17:I2:51:ASP:O	17:I2:55:THR:N	2.19	0.68
17:I3:43:ASN:O	17:I3:47:LYS:N	2.21	0.68
4:IE:316:CYS:N	4:IE:378:LEU:O	2.25	0.68
3:IJ:16:ILE:HD13	3:IJ:226:ASN:ND2	2.09	0.68
21:K2:400:MET:HG2	21:K3:247:LEU:HD13	1.76	0.68
4:KC:108:TYR:O	4:KC:112:LYS:NZ	2.21	0.68
4:KG:25:CYS:HB2	4:KG:30:ILE:HB	1.74	0.68
22:L3:129:ARG:HH12	4:LK:92:LEU:C	2.01	0.68
4:LK:25:CYS:HB2	4:LK:30:ILE:HB	1.76	0.68
4:LK:50:ASN:O	4:LK:64:ARG:NH1	2.26	0.68
3:LL:60:VAL:HG23	3:LL:86:ARG:HH11	1.58	0.68
24:M3:59:PRO:HA	24:M3:62:GLU:HB3	1.75	0.68
3:MB:412:GLU:OE1	3:MB:416:ASN:ND2	2.26	0.68
4:MM:208:ALA:H	4:MM:304:LYS:HZ1	1.42	0.68
3:NH:267:MET:HB3	3:NH:299:MET:HE1	1.75	0.68
4:NK:205:ASP:OD2	4:NK:304:LYS:NZ	2.24	0.68
3:OB:372:THR:HG21	3:OB:426:GLN:HG3	1.76	0.68
4:OI:419:SER:HA	4:OI:422:ARG:HE	1.59	0.68
4:PA:25:CYS:HB2	4:PA:30:ILE:HB	1.74	0.68
4:PA:30:ILE:HA	4:PA:36:MET:HE1	1.74	0.68
4:PA:79:ARG:NH2	4:PA:92:LEU:O	2.27	0.68
3:PL:278:SER:HA	3:PL:281:TYR:HB2	1.76	0.68
4:PM:108:TYR:O	4:PM:112:LYS:NZ	2.23	0.68
3:RD:357:PRO:HB3	3:RD:362:LYS:HA	1.75	0.68
3:SB:132:GLY:HA2	3:SB:162:ARG:HB3	1.74	0.68
4:SG:216:ASN:HB2	4:SG:276:ILE:HD12	1.76	0.68
3:TJ:46:ARG:HH12	4:TK:73:THR:HG23	1.59	0.68
4:TM:9:VAL:HG11	4:TM:150:ALA:HB2	1.74	0.68
4:UC:419:SER:HA	4:UC:422:ARG:HE	1.57	0.68
3:UJ:289:LEU:HD22	3:UJ:363:MET:HE2	1.76	0.68
3:UL:60:VAL:HG23	3:UL:86:ARG:HH11	1.59	0.68
3:VD:278:SER:HA	3:VD:281:TYR:HB2	1.75	0.68
4:VG:220:GLU:HG2	4:VG:221:ARG:HG2	1.75	0.68
4:WE:358:GLN:NE2	4:WE:359:PRO:O	2.24	0.68
37:YW:161:LYS:HG3	37:YW:162:VAL:HG23	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:Z:449:ASP:OD1	36:Z:452:ARG:NH2	2.27	0.68
4:AI:20:CYS:O	4:AI:24:TYR:N	2.24	0.68
3:AL:302:ALA:HB1	3:AL:377:LEU:HD21	1.75	0.68
3:BJ:16:ILE:O	3:BJ:20:PHE:N	2.24	0.68
6:C:25:ARG:HA	6:C:49:PRO:HD3	1.76	0.68
7:C3:229:CYS:SG	7:C3:232:ARG:NH2	2.67	0.68
7:C7:322:ARG:NH1	7:C7:323:GLU:OE2	2.27	0.68
4:CI:301:GLN:HG3	4:CI:303:VAL:H	1.59	0.68
3:CL:132:GLY:HA2	3:CL:162:ARG:HB3	1.76	0.68
4:DC:32:PRO:O	4:DC:85:GLN:NE2	2.26	0.68
4:DC:76:ASP:OD1	4:DC:79:ARG:NH1	2.26	0.68
4:DC:192:HIS:HA	4:DC:195:LEU:HD23	1.74	0.68
4:DK:271:THR:HA	4:DK:302:MET:HE1	1.75	0.68
4:EC:32:PRO:O	4:EC:85:GLN:NE2	2.27	0.68
3:FF:278:SER:HA	3:FF:281:TYR:HB2	1.76	0.68
11:Fk:378:LEU:HD12	11:Fk:434:LEU:HD13	1.75	0.68
14:G4:550:GLN:HA	14:G4:553:LYS:HG2	1.76	0.68
14:G6:357:ASP:OD1	14:G6:358:GLU:N	2.26	0.68
3:GF:2:ARG:NH2	4:GG:96:LYS:O	2.26	0.68
3:GJ:143:THR:HG22	3:GJ:147:MET:HE2	1.74	0.68
15:H6:13:GLU:HG3	15:H6:14:PRO:HA	1.76	0.68
4:HE:20:CYS:O	4:HE:24:TYR:N	2.27	0.68
3:JJ:83:GLN:O	3:JJ:86:ARG:NH2	2.27	0.68
4:KG:54:SER:HB2	4:KG:62:VAL:HB	1.75	0.68
3:KH:316:VAL:HG22	3:KH:352:ALA:HB3	1.75	0.68
22:L3:188:LEU:HB2	22:L3:252:ILE:HG13	1.75	0.68
3:LB:48:ASN:O	3:LB:62:ARG:NH2	2.25	0.68
3:LH:372:THR:HG21	3:LH:426:GLN:HG3	1.76	0.68
4:LI:409:VAL:HG12	4:LI:414:GLU:HA	1.76	0.68
4:ME:93:ILE:HG13	4:ME:118:VAL:HG12	1.76	0.68
3:NJ:309:ARG:N	3:NJ:372:THR:OG1	2.25	0.68
3:OF:322:SER:OG	3:OF:324:LYS:NZ	2.26	0.68
4:OG:12:ALA:HB2	39:OG:501:GTP:H5"	1.76	0.68
3:OL:173:PRO:O	3:OL:380:ARG:NH2	2.25	0.68
3:OL:278:SER:HA	3:OL:281:TYR:HB2	1.76	0.68
3:OL:309:ARG:H	3:OL:372:THR:HG1	1.41	0.68
4:PI:185:TYR:OH	4:PI:403:ALA:O	2.10	0.68
4:PM:9:VAL:HG11	4:PM:150:ALA:HB2	1.76	0.68
30:Q3:1358:ILE:O	30:Q3:1394:PHE:N	2.26	0.68
4:RE:108:TYR:O	4:RE:112:LYS:NZ	2.24	0.68
4:RI:216:ASN:HB2	4:RI:276:ILE:HD12	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:RK:53:PHE:O	4:RK:64:ARG:NH1	2.27	0.68
3:RL:4:ILE:HD11	3:RL:131:GLN:HB2	1.74	0.68
3:SD:250:LEU:O	3:SD:254:ALA:N	2.25	0.68
3:SF:132:GLY:HA2	3:SF:162:ARG:HB3	1.76	0.68
3:TN:357:PRO:HB3	3:TN:362:LYS:HA	1.76	0.68
4:UI:271:THR:HA	4:UI:302:MET:HE1	1.75	0.68
3:UL:316:VAL:HG22	3:UL:352:ALA:HB3	1.74	0.68
3:VB:392:LYS:HB3	3:VB:395:LEU:HD13	1.76	0.68
4:WE:203:MET:HE1	4:WE:267:PHE:HB3	1.75	0.68
4:WI:9:VAL:HG11	4:WI:150:ALA:HB2	1.76	0.68
34:XE:73:LEU:HD22	34:XE:169:ASP:HB3	1.75	0.68
4:AG:401:LYS:C	4:AG:402:ARG:HD3	2.18	0.67
5:B7:92:LEU:HD21	5:B7:236:SER:HB2	1.77	0.67
3:BB:60:VAL:HG23	3:BB:86:ARG:HH11	1.59	0.67
4:BG:54:SER:HB2	4:BG:62:VAL:HB	1.75	0.67
6:C:137:PHE:HA	6:C:184:ARG:HB2	1.74	0.67
4:CC:220:GLU:HG2	4:CC:221:ARG:HG2	1.74	0.67
3:CF:211:CYS:HA	3:CF:215:LEU:HB2	1.76	0.67
4:CG:192:HIS:HA	4:CG:195:LEU:HD23	1.76	0.67
7:Cb:164:LEU:HA	7:Cb:167:MET:SD	2.34	0.67
7:Cb:293:THR:HG22	7:Cb:295:SER:HB3	1.77	0.67
7:Cc:368:THR:HA	7:Cd:114:ARG:HD2	1.74	0.67
6:D:59:VAL:HG23	6:D:60:LYS:HD3	1.76	0.67
8:D8:431:MET:SD	8:D8:435:ASN:ND2	2.65	0.67
3:DD:36:TYR:O	15:H3:317:HIS:NE2	2.28	0.67
11:F5:98:SER:HA	11:F5:101:LEU:HD12	1.76	0.67
4:FC:49:PHE:HB2	4:FC:53:PHE:HB2	1.75	0.67
3:FL:84:ILE:O	3:FL:86:ARG:NH1	2.27	0.67
15:H4:40:ALA:O	15:H4:44:THR:OG1	2.09	0.67
3:HH:267:MET:O	3:HH:369:GLY:N	2.23	0.67
3:IJ:323:MET:SD	3:IJ:323:MET:N	2.58	0.67
4:IK:53:PHE:O	4:IK:64:ARG:NH1	2.27	0.67
4:IM:172:TYR:N	4:IM:204:VAL:O	2.27	0.67
18:J:179:ARG:NH1	4:KI:27:GLU:O	2.27	0.67
19:J3:167:MET:HA	19:J3:177:ASN:H	1.59	0.67
3:JB:4:ILE:HD11	3:JB:131:GLN:HB2	1.75	0.67
3:JL:70:PRO:HA	3:JL:73:MET:HE2	1.76	0.67
21:K2:488:THR:O	21:K2:490:ALA:N	2.23	0.67
4:LA:370:LYS:NZ	27:Q:162:TRP:O	2.27	0.67
3:LL:374:ILE:HA	3:LL:377:LEU:HD13	1.76	0.67
4:MC:1:MET:SD	4:MC:2:ARG:N	2.68	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MC:172:TYR:N	4:MC:204:VAL:O	2.25	0.67
3:ND:33:THR:O	3:ND:58:LYS:NZ	2.27	0.67
3:NJ:83:GLN:O	3:NJ:86:ARG:NH2	2.27	0.67
29:P1:62:GLY:O	29:P1:106:ARG:NH2	2.27	0.67
4:PE:192:HIS:HA	4:PE:195:LEU:HD23	1.76	0.67
3:PL:324:LYS:NZ	4:PM:222:PRO:O	2.16	0.67
30:Q2:1429:ALA:HB2	30:Q2:1499:LYS:HA	1.77	0.67
4:QC:388:TRP:HB3	4:QC:425:LEU:HD11	1.76	0.67
3:QD:316:VAL:HG22	3:QD:352:ALA:HB3	1.75	0.67
39:QH:501:GTP:O3G	39:QH:501:GTP:O3'	2.11	0.67
3:RF:322:SER:OG	3:RF:323:MET:SD	2.52	0.67
4:RI:103:TYR:HB2	4:RI:186:ASN:HB2	1.76	0.67
4:SC:358:GLN:NE2	4:SC:359:PRO:O	2.27	0.67
4:TG:192:HIS:HA	4:TG:195:LEU:HD23	1.75	0.67
3:TN:178:THR:HB	3:TN:181:GLU:HB2	1.76	0.67
33:U:175:ASN:OD1	33:U:178:GLN:NE2	2.27	0.67
4:UC:9:VAL:HG11	4:UC:150:ALA:HB2	1.76	0.67
3:UL:107:THR:OG1	3:UL:401:GLU:OE2	2.11	0.67
4:VA:12:ALA:HB1	39:VA:501:GTP:C2	2.29	0.67
4:VK:70:LEU:HD13	4:VK:145:THR:HB	1.76	0.67
3:VL:357:PRO:HB3	3:VL:362:LYS:HA	1.75	0.67
3:WF:4:ILE:HD11	3:WF:131:GLN:HB2	1.76	0.67
3:WL:374:ILE:HA	3:WL:377:LEU:HD13	1.76	0.67
34:XA:71:ILE:HG21	34:XA:167:PHE:HD2	1.59	0.67
35:XL:60:TYR:HB3	35:XL:65:PHE:HD2	1.57	0.67
35:XM:130:ILE:HG13	35:XM:131:PRO:HD3	1.76	0.67
3:AB:412:GLU:OE1	3:AB:416:ASN:ND2	2.27	0.67
4:BE:49:PHE:HB2	4:BE:53:PHE:HB2	1.76	0.67
4:BM:54:SER:HB2	4:BM:62:VAL:HB	1.75	0.67
4:BM:269:LEU:N	4:BM:379:SER:O	2.25	0.67
6:C:155:PHE:O	6:C:159:HIS:ND1	2.26	0.67
7:C4:284:PHE:O	7:C5:397:GLN:NE2	2.27	0.67
3:CD:39:ASP:OD1	3:CD:43:GLN:NE2	2.27	0.67
7:Cc:399:ARG:NH2	7:Cd:274:LEU:O	2.26	0.67
4:DC:224:TYR:HA	4:DC:227:LEU:HB2	1.75	0.67
4:DG:229:ARG:HH12	4:DG:366:GLY:HA2	1.58	0.67
3:ED:156:ARG:NH1	3:ED:195:ASN:O	2.27	0.67
4:EE:316:CYS:HB3	4:EE:378:LEU:HB3	1.75	0.67
4:EG:245:ASP:O	4:EG:356:ASN:ND2	2.27	0.67
4:EI:316:CYS:N	4:EI:378:LEU:O	2.25	0.67
11:F1:464:ILE:O	11:F1:468:LYS:HG2	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FG:419:SER:HA	4:FG:422:ARG:HE	1.60	0.67
4:FI:89:PRO:HD2	4:GI:280:LYS:HZ3	1.60	0.67
14:G4:81:PHE:HB2	14:G4:104:ILE:HB	1.75	0.67
14:G6:392:PRO:HA	14:G6:496:SER:HA	1.75	0.67
4:GG:96:LYS:HD2	23:M:140:THR:H	1.60	0.67
4:HE:204:VAL:HG23	4:HE:302:MET:HG3	1.75	0.67
3:HF:267:MET:O	3:HF:369:GLY:N	2.27	0.67
4:IG:32:PRO:O	4:IG:85:GLN:NE2	2.27	0.67
4:IG:172:TYR:N	4:IG:204:VAL:O	2.23	0.67
4:IG:316:CYS:N	4:IG:378:LEU:O	2.27	0.67
4:IM:207:GLU:HB2	4:IM:304:LYS:HZ1	1.59	0.67
19:J3:177:ASN:HA	19:J3:180:GLU:HB3	1.77	0.67
3:JD:309:ARG:H	3:JD:372:THR:HG1	1.40	0.67
3:JJ:170:VAL:N	3:JJ:202:ILE:O	2.26	0.67
21:K3:391:GLU:HB3	21:K3:395:ARG:HG3	1.75	0.67
4:KA:9:VAL:HG11	4:KA:150:ALA:HB2	1.75	0.67
22:L4:30:LEU:HD11	4:MM:309:HIS:HD2	1.58	0.67
3:LD:141:GLY:HA3	39:LD:501:GTP:H5”	1.75	0.67
3:LH:278:SER:HA	3:LH:281:TYR:HB2	1.75	0.67
24:M1:73:GLN:HA	24:M1:76:ALA:HB3	1.76	0.67
3:MD:390:ARG:HH22	28:O1:40:GLN:HG3	1.59	0.67
3:ND:278:SER:HA	3:ND:281:TYR:HB2	1.75	0.67
3:NH:278:SER:HA	3:NH:281:TYR:HB2	1.76	0.67
4:OA:54:SER:HB2	4:OA:62:VAL:HB	1.75	0.67
4:OG:261:PRO:HA	3:OH:394:PHE:HE1	1.59	0.67
3:OH:385:PHE:HA	3:OH:388:MET:HE2	1.76	0.67
4:PI:244:PHE:HB2	4:PI:356:ASN:HD21	1.59	0.67
3:RJ:426:GLN:NE2	3:RJ:427:ASP:OD2	2.27	0.67
3:UB:302:ALA:HB1	3:UB:377:LEU:HD11	1.76	0.67
4:UC:358:GLN:NE2	4:UC:359:PRO:O	2.25	0.67
4:VA:108:TYR:O	4:VA:112:LYS:NZ	2.24	0.67
4:WE:207:GLU:HB2	4:WE:304:LYS:HZ1	1.60	0.67
3:WH:278:SER:HA	3:WH:281:TYR:HB2	1.76	0.67
3:WJ:423:GLN:O	3:WJ:427:ASP:N	2.27	0.67
3:WL:48:ASN:O	3:WL:62:ARG:NH2	2.24	0.67
3:AJ:48:ASN:O	3:AJ:62:ARG:NH2	2.27	0.67
3:AL:60:VAL:HG23	3:AL:86:ARG:HH11	1.57	0.67
3:AL:143:THR:HG22	3:AL:147:MET:HE2	1.75	0.67
5:B2:196:SER:HA	10:E3:147:LYS:HE3	1.76	0.67
4:BM:88:HIS:HB3	4:BM:91:GLN:HB3	1.75	0.67
3:CJ:246:LEU:HB2	3:CJ:352:ALA:HB1	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CK:316:CYS:HB3	4:CK:378:LEU:HB3	1.75	0.67
4:CM:89:PRO:HD2	4:DK:280:LYS:NZ	2.07	0.67
8:D7:267:ARG:HA	8:D7:270:ARG:HE	1.58	0.67
4:DC:172:TYR:N	4:DC:204:VAL:O	2.25	0.67
4:EC:180:ALA:HB3	4:EC:183:GLU:HG2	1.76	0.67
11:F5:131:ILE:HD12	11:F6:388:PRO:HG2	1.76	0.67
3:FH:12:CYS:HA	3:FH:15:GLN:NE2	2.08	0.67
4:FK:192:HIS:HA	4:FK:195:LEU:HD23	1.76	0.67
11:Fa:208:HIS:HE1	11:Fb:89:ARG:HB2	1.60	0.67
11:Fa:415:ARG:NH1	11:Fb:141:ASN:OD1	2.27	0.67
4:HA:53:PHE:O	4:HA:64:ARG:NH1	2.27	0.67
3:HB:28:HIS:HD2	3:HB:43:GLN:HB2	1.59	0.67
3:HF:285:THR:OG1	3:HF:288:GLU:OE1	2.13	0.67
4:HG:278:ALA:O	4:HG:370:LYS:NZ	2.27	0.67
3:HL:278:SER:HA	3:HL:281:TYR:HB2	1.75	0.67
4:JG:49:PHE:O	4:JG:53:PHE:N	2.27	0.67
21:K1:433:LEU:HD21	21:K1:437:ARG:HH21	1.59	0.67
3:NB:182:PRO:HB2	3:NB:388:MET:HE1	1.74	0.67
4:NG:50:ASN:O	4:NG:64:ARG:NH1	2.28	0.67
4:PA:216:ASN:HB2	4:PA:276:ILE:HD12	1.76	0.67
4:PG:30:ILE:HG13	4:PG:53:PHE:HE2	1.60	0.67
30:Q2:1345:ARG:NH2	30:Q2:1346:GLU:OE2	2.27	0.67
4:QE:54:SER:HB2	4:QE:62:VAL:HB	1.76	0.67
4:RK:338:LYS:HZ2	4:RK:340:THR:H	1.42	0.67
3:SB:412:GLU:OE1	3:SB:416:ASN:ND2	2.27	0.67
3:SF:284:LEU:HD23	3:SF:363:MET:HE2	1.75	0.67
3:SL:246:LEU:HB2	3:SL:352:ALA:HB1	1.76	0.67
4:UC:192:HIS:HA	4:UC:195:LEU:HD23	1.76	0.67
4:UC:396:ASP:OD1	4:UC:397:LEU:N	2.27	0.67
3:UF:246:LEU:HB2	3:UF:352:ALA:HB1	1.75	0.67
3:UF:390:ARG:HH12	3:UF:391:ARG:HH21	1.40	0.67
3:VF:74:ASP:HA	3:VF:77:ARG:HG2	1.76	0.67
4:VG:358:GLN:NE2	4:VG:359:PRO:O	2.27	0.67
3:VL:83:GLN:O	3:VL:86:ARG:NH2	2.27	0.67
4:WE:316:CYS:HB3	4:WE:378:LEU:HB3	1.76	0.67
3:WJ:385:PHE:HA	3:WJ:388:MET:HE2	1.76	0.67
3:WL:73:MET:HE1	3:WL:92:PHE:HB3	1.75	0.67
3:WL:372:THR:HB	3:WL:375:GLN:HE22	1.60	0.67
2:A3:241:LEU:HD11	17:I3:48:TYR:CZ	2.29	0.67
3:AB:317:PHE:O	3:AB:354:CYS:N	2.24	0.67
4:AC:54:SER:HB2	4:AC:62:VAL:HB	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:144:GLY:N	39:AE:501:GTP:O2B	2.25	0.67
5:B6:157:GLN:O	5:B6:161:HIS:ND1	2.26	0.67
4:BE:68:VAL:HG12	4:BE:93:ILE:HB	1.77	0.67
3:BJ:12:CYS:HA	3:BJ:15:GLN:HG2	1.75	0.67
4:BK:83:TYR:HB3	4:BK:86:LEU:HD12	1.74	0.67
7:C9:406:ARG:NH1	7:C9:410:GLU:O	2.27	0.67
3:CL:214:THR:HG21	3:CL:273:LEU:HB3	1.75	0.67
8:D2:61:TYR:O	8:D2:65:HIS:ND1	2.23	0.67
8:D4:402:LEU:HA	8:D4:405:LEU:HD12	1.76	0.67
3:DH:44:LEU:HD11	15:H5:290:PRO:HD3	1.75	0.67
3:DL:101:TRP:HB2	3:DL:184:ASN:HD22	1.59	0.67
11:F4:248:HIS:HD1	11:F8:196:TYR:HE1	1.39	0.67
11:F7:290:VAL:H	11:F8:409:ARG:HH11	1.43	0.67
4:FA:88:HIS:CE1	4:FA:121:ARG:HH22	2.13	0.67
3:FH:77:ARG:O	3:FH:77:ARG:NH1	2.28	0.67
4:FK:171:ILE:HD12	4:FK:204:VAL:HG13	1.77	0.67
11:Ff:292:ILE:HG13	11:Ff:293:PRO:HD2	1.74	0.67
11:Fk:131:ILE:HD12	11:Fk:308:GLN:HG3	1.75	0.67
11:Fk:380:ARG:HH11	14:G4:588:SER:HB3	1.59	0.67
11:Fm:304:ILE:O	11:Fm:308:GLN:NE2	2.28	0.67
14:G4:483:ARG:O	14:G4:483:ARG:NH1	2.26	0.67
3:GH:132:GLY:HA2	3:GH:162:ARG:HB3	1.75	0.67
4:GI:192:HIS:HA	4:GI:195:LEU:HD23	1.76	0.67
15:H1:250:ASN:OD1	15:H1:251:GLN:N	2.26	0.67
3:HB:216:LYS:O	3:HB:276:ARG:NH2	2.27	0.67
4:HG:243:ARG:O	4:HG:243:ARG:NH1	2.27	0.67
4:IE:210:TYR:OH	4:IE:221:ARG:NH2	2.28	0.67
3:IH:101:TRP:HB2	3:IH:184:ASN:HD22	1.59	0.67
3:IH:211:CYS:HA	3:IH:215:LEU:HB2	1.77	0.67
3:JF:323:MET:SD	3:JF:324:LYS:NZ	2.66	0.67
21:K3:189:GLU:HG2	21:K3:190:LYS:H	1.59	0.67
3:KB:132:GLY:HA2	3:KB:162:ARG:HB3	1.77	0.67
3:KD:132:GLY:HA2	3:KD:162:ARG:HB3	1.76	0.67
4:KI:244:PHE:HB2	4:KI:356:ASN:HD21	1.60	0.67
3:KJ:328:GLU:OE1	3:KJ:332:ASN:ND2	2.28	0.67
4:KK:36:MET:HE3	4:KK:61:HIS:CE1	2.29	0.67
3:KL:8:GLN:HE21	3:KL:14:ASN:HA	1.60	0.67
3:KL:322:SER:OG	3:KL:324:LYS:NZ	2.27	0.67
22:L2:33:ALA:O	22:L2:37:ASN:ND2	2.26	0.67
3:LB:100:ASN:HB3	3:LB:103:LYS:HB2	1.76	0.67
3:LB:358:PRO:O	27:Q:132:ARG:NH2	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LD:48:ASN:O	3:LD:62:ARG:NH2	2.28	0.67
3:MB:170:VAL:N	3:MB:202:ILE:O	2.27	0.67
3:MB:316:VAL:HG22	3:MB:352:ALA:HB3	1.74	0.67
3:MJ:257:MET:HG3	3:MJ:258:VAL:HG23	1.77	0.67
4:MK:83:TYR:HB3	4:MK:86:LEU:HD12	1.77	0.67
30:Q3:1356:GLY:HA2	30:Q3:1393:LYS:HG3	1.77	0.67
3:QD:48:ASN:O	3:QD:62:ARG:NH2	2.24	0.67
4:RG:54:SER:HB2	4:RG:62:VAL:HB	1.75	0.67
4:RG:419:SER:HA	4:RG:422:ARG:HE	1.59	0.67
3:RJ:39:ASP:OD1	3:RJ:43:GLN:NE2	2.27	0.67
3:RL:6:HIS:HD2	3:RL:134:GLN:HG2	1.59	0.67
4:SK:205:ASP:OD2	4:SK:304:LYS:NZ	2.23	0.67
3:TB:357:PRO:HB3	3:TB:362:LYS:HA	1.77	0.67
3:TH:278:SER:HA	3:TH:281:TYR:HB2	1.76	0.67
4:TK:192:HIS:HA	4:TK:195:LEU:HD23	1.75	0.67
4:TK:203:MET:N	4:TK:203:MET:SD	2.67	0.67
4:UI:418:PHE:O	4:UI:422:ARG:NH2	2.28	0.67
3:VD:280:GLN:HB3	33:W:290:LEU:HG	1.76	0.67
3:VH:372:THR:HB	3:VH:375:GLN:HE22	1.57	0.67
3:VJ:48:ASN:O	3:VJ:62:ARG:NH2	2.24	0.67
3:VL:412:GLU:OE1	3:VL:416:ASN:ND2	2.27	0.67
33:X:405:LYS:O	33:X:409:ASN:ND2	2.27	0.67
34:XB:78:MET:H	34:XB:132:ILE:HB	1.58	0.67
37:YG:103:LEU:HD22	37:YG:110:LEU:HD21	1.75	0.67
37:YT:8:LEU:HD11	37:YT:145:LEU:HD22	1.75	0.67
2:A1:323:ARG:NH2	2:A2:180:THR:O	2.28	0.67
2:A3:252:ASP:OD1	2:A3:255:ARG:NH2	2.26	0.67
2:A3:336:ARG:HA	2:A3:339:LYS:HD3	1.75	0.67
4:AI:12:ALA:HB2	39:AI:501:GTP:H5"	1.76	0.67
3:AJ:273:LEU:H	3:AJ:292:GLN:HE22	1.42	0.67
5:B8:234:LYS:NZ	5:B8:238:GLU:OE2	2.24	0.67
4:BG:338:LYS:HZ2	4:BG:340:THR:H	1.43	0.67
6:C:306:VAL:HA	38:a:70:ARG:HE	1.60	0.67
7:C9:470:GLN:HG3	7:C9:474:MET:HE1	1.76	0.67
3:CL:56:GLY:H	15:H6:230:TRP:HZ2	1.41	0.67
4:DG:108:TYR:O	4:DG:112:LYS:NZ	2.26	0.67
4:DK:108:TYR:O	4:DK:112:LYS:NZ	2.26	0.67
9:E:580:HIS:NE2	4:JE:282:TYR:OH	2.23	0.67
4:EE:279:GLU:HA	4:EE:282:TYR:HD2	1.59	0.67
3:EH:412:GLU:OE1	3:EH:416:ASN:ND2	2.25	0.67
11:Fa:100:ASP:HA	11:Fa:103:ILE:HD12	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Fa:435:ARG:O	11:Fa:435:ARG:NH1	2.27	0.67
4:GE:187:SER:O	4:GE:190:THR:OG1	2.12	0.67
4:GK:205:ASP:OD2	4:GK:304:LYS:NZ	2.24	0.67
4:HK:188:ILE:HG12	4:HK:421:ALA:HB1	1.76	0.67
4:HK:317:MET:HE3	4:HK:375:VAL:HG21	1.76	0.67
3:IF:87:PRO:HG2	4:JE:280:LYS:HZ2	1.58	0.67
4:IK:419:SER:HA	4:IK:422:ARG:HE	1.59	0.67
3:IL:12:CYS:SG	3:IL:13:GLY:N	2.68	0.67
3:IL:251:ARG:NH2	4:IM:98:ASP:OD1	2.28	0.67
3:JD:39:ASP:OD1	3:JD:43:GLN:NE2	2.28	0.67
3:KJ:372:THR:HG21	3:KJ:426:GLN:HG3	1.75	0.67
3:LH:412:GLU:OE1	3:LH:416:ASN:ND2	2.26	0.67
3:MB:214:THR:HG21	3:MB:273:LEU:HB3	1.75	0.67
4:ME:67:PHE:HB2	4:ME:92:LEU:HD13	1.76	0.67
4:MI:388:TRP:HB3	4:MI:425:LEU:HD11	1.76	0.67
3:NH:4:ILE:HD11	3:NH:131:GLN:HB2	1.76	0.67
3:OL:33:THR:O	3:OL:58:LYS:NZ	2.27	0.67
29:P1:200:GLN:HE21	29:P1:238:LEU:HA	1.58	0.67
3:PB:132:GLY:HA2	3:PB:162:ARG:HB3	1.74	0.67
4:PC:67:PHE:HB2	4:PC:92:LEU:HD13	1.76	0.67
3:PD:46:ARG:HH22	4:PE:73:THR:HA	1.59	0.67
3:PD:245:GLN:OE1	4:PE:15:GLN:NE2	2.27	0.67
4:QI:399:TYR:OH	4:QI:415:GLU:OE2	2.12	0.67
3:RB:299:MET:HE1	3:RB:304:ASP:HA	1.77	0.67
4:RE:54:SER:HB2	4:RE:62:VAL:HB	1.75	0.67
4:RK:108:TYR:O	4:RK:112:LYS:NZ	2.26	0.67
4:RK:185:TYR:OH	4:RK:403:ALA:O	2.10	0.67
3:SJ:173:PRO:O	3:SJ:380:ARG:NH2	2.27	0.67
3:TH:101:TRP:HB2	3:TH:184:ASN:HD22	1.59	0.67
4:TK:54:SER:HB2	4:TK:62:VAL:HB	1.77	0.67
33:U:415:GLU:OE1	33:U:419:LYS:NZ	2.24	0.67
3:UJ:182:PRO:HB2	3:UJ:388:MET:HE1	1.75	0.67
3:UL:54:ALA:HB3	3:UL:58:LYS:HB3	1.77	0.67
3:UL:139:LEU:HD21	3:UL:170:VAL:HG22	1.76	0.67
3:VB:412:GLU:OE1	3:VB:416:ASN:ND2	2.28	0.67
4:VC:220:GLU:HG2	4:VC:221:ARG:HG2	1.75	0.67
3:VJ:278:SER:HA	3:VJ:281:TYR:HB2	1.75	0.67
4:WG:127:ASP:OD1	4:WG:128:LEU:N	2.28	0.67
4:WK:358:GLN:NE2	4:WK:359:PRO:O	2.26	0.67
34:XF:90:GLU:HB3	34:XF:104:ARG:HD3	1.76	0.67
37:YO:11:ILE:HA	37:YO:14:LYS:HE3	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BD:47:ILE:HG13	3:BD:51:TYR:HB2	1.77	0.67
4:BM:220:GLU:HG2	4:BM:221:ARG:HG2	1.74	0.67
7:C2:401:ASP:OD1	7:C2:404:THR:OG1	2.12	0.67
4:CI:279:GLU:HA	4:CI:282:TYR:HD2	1.59	0.67
8:D7:156:LEU:HB2	8:D7:176:LEU:HD21	1.76	0.67
4:EA:205:ASP:OD2	4:EA:304:LYS:NZ	2.24	0.67
3:EB:359:ARG:NH2	14:G4:493:VAL:HG12	2.10	0.67
3:EF:173:PRO:O	3:EF:380:ARG:NH2	2.28	0.67
3:EL:4:ILE:HD11	3:EL:131:GLN:HB2	1.74	0.67
3:FB:39:ASP:OD1	3:FB:43:GLN:NE2	2.28	0.67
4:FE:216:ASN:HB2	4:FE:276:ILE:HD12	1.76	0.67
3:FF:385:PHE:HA	3:FF:388:MET:HE2	1.76	0.67
4:FI:244:PHE:HB2	4:FI:356:ASN:HD21	1.58	0.67
11:Fk:360:GLN:HG3	11:Fk:363:LYS:HE3	1.76	0.67
13:G2:352:ARG:HH12	13:G2:356:LYS:HB3	1.59	0.67
4:GC:388:TRP:HB3	4:GC:425:LEU:HD11	1.76	0.67
15:H1:246:ASP:HA	15:H1:249:LYS:HB2	1.76	0.67
4:HA:316:CYS:HB3	4:HA:378:LEU:HB3	1.75	0.67
3:HH:2:ARG:HD3	3:HH:131:GLN:HG3	1.75	0.67
4:HI:220:GLU:HG2	4:HI:221:ARG:HG2	1.75	0.67
3:IB:323:MET:N	3:IB:323:MET:SD	2.67	0.67
19:J3:142:ILE:HG13	19:J3:144:PRO:HD3	1.76	0.67
3:JF:48:ASN:O	3:JF:62:ARG:NH2	2.27	0.67
21:K2:201:TRP:HA	21:K2:204:LYS:HE2	1.77	0.67
3:KJ:385:PHE:HA	3:KJ:388:MET:HE2	1.75	0.67
4:LA:205:ASP:OD2	4:LA:304:LYS:NZ	2.28	0.67
3:MB:54:ALA:HB3	3:MB:58:LYS:HB2	1.76	0.67
3:MB:227:HIS:CE1	27:P:371:GLN:HB2	2.30	0.67
3:MJ:77:ARG:O	3:MJ:77:ARG:NH1	2.26	0.67
3:MJ:269:GLY:HA2	3:MJ:300:MET:HE1	1.76	0.67
3:ML:216:LYS:HB2	3:ML:276:ARG:HH11	1.57	0.67
3:NB:392:LYS:HB2	3:NB:395:LEU:HD13	1.77	0.67
4:NC:358:GLN:NE2	4:NC:359:PRO:O	2.28	0.67
4:NK:32:PRO:O	4:NK:85:GLN:NE2	2.27	0.67
4:OA:9:VAL:HG11	4:OA:150:ALA:HB2	1.77	0.67
3:OD:289:LEU:HD22	3:OD:363:MET:HE2	1.76	0.67
3:OF:13:GLY:HA2	3:OF:16:ILE:HB	1.76	0.67
29:P1:431:ARG:NH2	29:P1:473:ASN:O	2.27	0.67
4:QC:358:GLN:NE2	4:QC:359:PRO:O	2.27	0.67
3:QJ:156:ARG:NH1	3:QJ:195:ASN:O	2.27	0.67
4:RC:316:CYS:N	4:RC:378:LEU:O	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RJ:278:SER:HA	3:RJ:281:TYR:HB2	1.76	0.67
4:RK:54:SER:HB2	4:RK:62:VAL:HB	1.75	0.67
4:RK:396:ASP:OD1	4:RK:397:LEU:N	2.28	0.67
4:SC:220:GLU:HG2	4:SC:221:ARG:HG2	1.75	0.67
4:SE:220:GLU:HG2	4:SE:221:ARG:HG2	1.76	0.67
3:SL:77:ARG:O	3:SL:77:ARG:NH1	2.26	0.67
3:TH:149:THR:O	3:TH:191:GLN:NE2	2.27	0.67
3:UB:48:ASN:O	3:UB:62:ARG:NH2	2.27	0.67
3:UH:139:LEU:HD21	3:UH:170:VAL:HG22	1.76	0.67
4:VC:50:ASN:O	4:VC:64:ARG:NH1	2.28	0.67
4:VE:371:VAL:HG11	4:VE:374:ALA:HB2	1.77	0.67
4:VK:206:ASN:HA	4:VK:209:ILE:HD12	1.76	0.67
33:W:200:ASN:O	33:W:204:HIS:ND1	2.28	0.67
4:WE:108:TYR:O	4:WE:112:LYS:NZ	2.24	0.67
3:WH:253:LEU:HB3	3:WH:257:MET:HE1	1.76	0.67
35:XH:100:LEU:HD21	35:XH:152:THR:HG22	1.75	0.67
35:XK:100:LEU:HD21	35:XK:152:THR:HG22	1.76	0.67
37:YN:57:CYS:O	37:YN:63:ARG:NH1	2.26	0.67
1:A:20:GLU:OE1	1:A:23:ARG:NH2	2.27	0.67
2:A2:205:VAL:HG12	2:A2:206:ARG:NH1	2.10	0.67
3:BF:166:THR:OG1	3:BF:198:GLU:O	2.12	0.67
4:BI:220:GLU:HG2	4:BI:221:ARG:HG2	1.76	0.67
4:BI:388:TRP:HB3	4:BI:425:LEU:HD11	1.77	0.67
4:BK:313:MET:HE3	4:BK:380:ASN:HB3	1.76	0.67
4:BM:88:HIS:CE1	4:BM:121:ARG:HH22	2.11	0.67
7:C3:175:THR:OG1	7:C3:179:ARG:NH2	2.27	0.67
3:CL:372:THR:HG21	3:CL:426:GLN:HG3	1.77	0.67
6:D:137:PHE:HA	6:D:184:ARG:HB2	1.76	0.67
4:DE:89:PRO:HD2	4:EE:280:LYS:HZ3	1.60	0.67
4:DE:316:CYS:HB3	4:DE:378:LEU:HB3	1.75	0.67
4:EC:20:CYS:O	4:EC:24:TYR:N	2.25	0.67
3:EH:378:PHE:HA	3:EH:381:ILE:HG22	1.77	0.67
4:EK:400:ALA:O	4:EK:402:ARG:NH1	2.27	0.67
4:FC:88:HIS:HB3	4:FC:91:GLN:HB2	1.76	0.67
11:Fl:450:ARG:O	11:Fl:453:HIS:ND1	2.28	0.67
14:G5:455:ALA:HB3	14:G5:464:SER:HB2	1.77	0.67
3:GB:101:TRP:HB2	3:GB:184:ASN:HD22	1.58	0.67
4:GC:226:ASN:ND2	4:GC:367:ASP:OD2	2.28	0.67
3:GF:215:LEU:O	3:GF:276:ARG:NH1	2.27	0.67
15:H5:218:ILE:HG13	15:H5:221:TYR:HB2	1.76	0.67
19:J2:49:THR:HG23	19:J2:66:GLN:HB3	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JD:47:ILE:HG13	3:JD:51:TYR:HB2	1.77	0.67
3:JF:247:ASN:HB3	3:JF:252:LYS:HG2	1.77	0.67
4:JK:54:SER:HB2	4:JK:62:VAL:HB	1.75	0.67
3:KF:46:ARG:HH12	4:KG:73:THR:HG23	1.60	0.67
3:KF:289:LEU:HD21	3:KF:363:MET:HB3	1.76	0.67
20:L:24:GLU:O	20:L:28:HIS:ND1	2.27	0.67
3:LB:376:GLU:HA	3:LB:379:LYS:HE3	1.76	0.67
3:LF:284:LEU:HD23	27:R:362:SER:HB2	1.77	0.67
4:LK:236:SER:O	4:LK:243:ARG:NH2	2.25	0.67
24:M2:55:ARG:NH1	24:M2:89:PHE:O	2.28	0.67
4:MG:30:ILE:HA	4:MG:36:MET:HE1	1.76	0.67
4:MI:206:ASN:HA	4:MI:209:ILE:HD12	1.77	0.67
3:ML:54:ALA:HB3	3:ML:58:LYS:HB2	1.76	0.67
3:NF:33:THR:O	3:NF:58:LYS:NZ	2.26	0.67
3:NJ:132:GLY:HA2	3:NJ:162:ARG:HB3	1.76	0.67
4:NK:88:HIS:HB3	4:NK:91:GLN:HB2	1.75	0.67
4:OA:50:ASN:O	4:OA:64:ARG:NH1	2.27	0.67
3:OB:149:THR:HG21	3:OB:188:SER:HA	1.76	0.67
3:OJ:311:LEU:HD13	3:OJ:342:VAL:HG21	1.76	0.67
29:P1:40:ILE:HG12	29:P1:49:ILE:HG12	1.77	0.67
3:PF:385:PHE:HA	3:PF:388:MET:HE2	1.77	0.67
4:PM:273:ALA:HB2	4:PM:295:CYS:HB3	1.77	0.67
4:QC:261:PRO:HA	3:QD:394:PHE:HE1	1.57	0.67
3:QD:107:THR:OG1	3:QD:401:GLU:OE2	2.10	0.67
3:QF:131:GLN:HB3	3:QF:163:ILE:HD12	1.76	0.67
4:QG:25:CYS:HB2	4:QG:30:ILE:HB	1.75	0.67
4:QI:203:MET:HE1	4:QI:267:PHE:HB3	1.76	0.67
3:QJ:345:ILE:HD11	4:QK:181:VAL:HG11	1.76	0.67
4:QK:220:GLU:HG2	4:QK:221:ARG:HG2	1.75	0.67
4:QM:84:ARG:NH2	37:YU:124:HIS:O	2.28	0.67
3:SH:345:ILE:HD12	3:SH:346:PRO:HD2	1.77	0.67
3:TD:258:VAL:HB	4:TE:407:TRP:HZ2	1.59	0.67
3:TN:151:LEU:HD22	3:TN:154:LYS:HZ1	1.60	0.67
4:VE:236:SER:O	4:VE:243:ARG:NH2	2.27	0.67
4:VG:108:TYR:O	4:VG:112:LYS:NZ	2.22	0.67
39:VL:501:GTP:O3G	39:VL:501:GTP:O3'	2.12	0.67
3:WB:253:LEU:HB3	3:WB:257:MET:HE1	1.77	0.67
3:WD:13:GLY:HA2	3:WD:16:ILE:HB	1.76	0.67
37:YO:114:ARG:NH2	37:YO:133:HIS:O	2.28	0.67
3:AH:132:GLY:HA2	3:AH:162:ARG:HB3	1.77	0.67
5:B2:96:LYS:NZ	5:B2:155:ILE:O	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B2:319:GLU:HB2	5:B3:202:LYS:HG2	1.76	0.67
7:C4:281:VAL:HA	7:C5:398:THR:HG21	1.77	0.67
4:CC:208:ALA:H	4:CC:304:LYS:HZ1	1.42	0.67
4:CI:236:SER:O	4:CI:243:ARG:NH2	2.28	0.67
4:CK:49:PHE:O	4:CK:53:PHE:N	2.25	0.67
3:CL:75:SER:O	14:G6:280:ARG:NH2	2.27	0.67
3:DB:392:LYS:HB2	3:DB:395:LEU:HD13	1.76	0.67
4:DC:9:VAL:HG11	4:DC:150:ALA:HB2	1.77	0.67
4:DC:216:ASN:HB2	4:DC:276:ILE:HD12	1.77	0.67
4:DC:225:THR:O	4:DC:229:ARG:HG3	1.95	0.67
4:DK:220:GLU:HG2	4:DK:221:ARG:HG2	1.76	0.67
3:DL:52:ASN:OD1	3:DL:62:ARG:NH1	2.28	0.67
9:E:777:ILE:HA	9:E:780:GLN:NE2	2.10	0.67
3:EB:282:ARG:NH2	3:EB:292:GLN:OE1	2.25	0.67
4:EK:25:CYS:HA	4:EK:30:ILE:HD13	1.76	0.67
4:EK:188:ILE:HG12	4:EK:421:ALA:HB1	1.76	0.67
11:F2:95:TRP:O	11:F2:99:ASN:ND2	2.28	0.67
11:F2:396:LEU:HD22	11:F3:283:VAL:HB	1.75	0.67
11:F4:89:ARG:HD3	11:F4:89:ARG:H	1.59	0.67
3:FJ:77:ARG:O	3:FJ:77:ARG:NH1	2.24	0.67
4:FK:236:SER:O	4:FK:243:ARG:NH2	2.26	0.67
11:Fa:372:GLU:HA	11:Fa:375:ILE:HD12	1.77	0.67
11:Fc:176:ARG:O	11:Fc:176:ARG:NH1	2.28	0.67
11:Ff:449:SER:O	11:Ff:453:HIS:ND1	2.27	0.67
11:Fk:210:ASN:HA	11:Fk:213:LYS:HE2	1.77	0.67
15:H6:252:PHE:HA	15:H6:255:ARG:HE	1.59	0.67
4:HE:1:MET:SD	4:HE:2:ARG:N	2.68	0.67
4:HE:338:LYS:HZ2	4:HE:340:THR:H	1.43	0.67
3:HF:48:ASN:O	3:HF:62:ARG:NH2	2.28	0.67
4:IG:316:CYS:HB3	4:IG:378:LEU:HB3	1.76	0.67
4:IK:101:ASN:HA	4:IK:144:GLY:HA2	1.75	0.67
4:JE:244:PHE:HB2	4:JE:356:ASN:HD21	1.60	0.67
3:JF:13:GLY:HA2	3:JF:16:ILE:HB	1.76	0.67
4:KA:52:PHE:HE2	4:KA:243:ARG:HH11	1.43	0.67
4:KI:245:ASP:O	4:KI:356:ASN:ND2	2.28	0.67
4:LA:154:MET:HE1	4:LA:197:HIS:HB2	1.77	0.67
3:LB:46:ARG:HH12	4:LC:73:THR:HG23	1.60	0.67
4:LC:1:MET:SD	4:LC:2:ARG:N	2.67	0.67
4:MC:83:TYR:HB3	4:MC:86:LEU:HD12	1.74	0.67
3:MJ:322:SER:OG	3:MJ:324:LYS:NZ	2.28	0.67
3:OL:107:THR:OG1	3:OL:401:GLU:OE2	2.12	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:P3:49:ILE:HB	29:P3:58:ASN:HB2	1.75	0.67
3:PD:39:ASP:OD1	3:PD:43:GLN:NE2	2.28	0.67
3:PD:309:ARG:HE	3:PD:426:GLN:HE21	1.41	0.67
3:PF:2:ARG:HB3	3:PF:131:GLN:NE2	2.10	0.67
4:PG:53:PHE:O	4:PG:64:ARG:NH1	2.28	0.67
4:QC:224:TYR:HA	4:QC:227:LEU:HB2	1.77	0.67
3:QF:324:LYS:NZ	4:QG:222:PRO:O	2.20	0.67
4:QI:89:PRO:HD2	4:RI:280:LYS:HZ3	1.60	0.67
3:RD:317:PHE:O	3:RD:354:CYS:N	2.28	0.67
4:RE:216:ASN:HB2	4:RE:276:ILE:HD12	1.77	0.67
3:RH:345:ILE:HD11	4:RI:181:VAL:HG21	1.77	0.67
32:S:390:ARG:HG3	32:S:391:GLN:HG3	1.75	0.67
4:SC:88:HIS:HB3	4:SC:91:GLN:HB2	1.76	0.67
3:SL:278:SER:HA	3:SL:281:TYR:HB2	1.77	0.67
4:TE:89:PRO:HD2	4:UC:280:LYS:HZ3	1.58	0.67
3:TN:317:PHE:O	3:TN:354:CYS:N	2.24	0.67
3:UF:141:GLY:HA3	39:UF:501:GTP:H5"	1.75	0.67
3:WH:132:GLY:HA2	3:WH:162:ARG:HB3	1.77	0.67
3:WH:309:ARG:N	3:WH:372:THR:OG1	2.25	0.67
35:XJ:130:ILE:HG13	35:XJ:131:PRO:HD3	1.77	0.67
37:YM:105:SER:HB2	37:YM:108:ASN:HB3	1.77	0.67
37:YP:110:LEU:HD23	37:YP:140:LEU:HD22	1.77	0.67
4:AC:216:ASN:HB2	4:AC:276:ILE:HD12	1.77	0.67
3:AL:132:GLY:HA2	3:AL:162:ARG:HB3	1.76	0.67
3:BF:77:ARG:O	3:BF:77:ARG:NH1	2.26	0.67
3:BL:326:VAL:HG21	3:BL:351:THR:HG21	1.75	0.67
7:C7:121:ARG:HD2	7:C8:378:THR:HG21	1.75	0.67
3:CD:250:LEU:O	3:CD:254:ALA:N	2.22	0.67
4:CM:49:PHE:HB2	4:CM:53:PHE:HB2	1.75	0.67
7:Ca:473:CYS:SG	7:Ca:477:ARG:NE	2.66	0.67
4:DC:338:LYS:HZ2	4:DC:340:THR:H	1.43	0.67
4:DE:144:GLY:N	39:DE:501:GTP:O2B	2.28	0.67
3:DF:229:VAL:HG22	3:DF:233:MET:HE1	1.77	0.67
3:DJ:170:VAL:N	3:DJ:202:ILE:O	2.27	0.67
3:EJ:317:PHE:O	3:EJ:354:CYS:N	2.23	0.67
11:F5:336:PHE:O	11:F5:340:ASN:ND2	2.27	0.67
11:F7:163:LEU:O	11:F7:167:ASN:ND2	2.28	0.67
4:FA:338:LYS:HZ2	4:FA:340:THR:H	1.43	0.67
4:FC:54:SER:HB2	4:FC:62:VAL:HB	1.77	0.67
4:FC:244:PHE:HB2	4:FC:356:ASN:HD21	1.60	0.67
11:Fb:399:ARG:HH22	11:Fb:407:LEU:HD12	1.58	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Fg:163:LEU:HA	11:Fg:311:ARG:HH12	1.60	0.67
4:GC:1:MET:O	4:GC:133:GLN:NE2	2.26	0.67
4:GC:161:TYR:O	4:GC:166:LYS:NZ	2.28	0.67
4:GI:265:ILE:HD12	4:GI:267:PHE:HD2	1.60	0.67
3:GJ:247:ASN:HB3	3:GJ:252:LYS:HG2	1.77	0.67
15:H3:256:HIS:ND1	15:H3:256:HIS:O	2.28	0.67
3:HD:267:MET:O	3:HD:369:GLY:N	2.24	0.67
17:I2:50:GLN:O	17:I2:54:ASN:N	2.24	0.67
4:IG:192:HIS:HA	4:IG:195:LEU:HD23	1.77	0.67
3:JH:83:GLN:O	3:JH:86:ARG:NH2	2.28	0.67
21:K4:151:LEU:HD22	21:K4:227:LEU:HD13	1.77	0.67
4:KA:264:ARG:O	4:KA:266:HIS:ND1	2.27	0.67
4:KK:127:ASP:OD1	4:KK:128:LEU:N	2.28	0.67
4:LE:49:PHE:O	4:LE:53:PHE:N	2.28	0.67
4:LE:192:HIS:HA	4:LE:195:LEU:HD23	1.77	0.67
4:LE:229:ARG:HE	4:LE:368:LEU:HD22	1.59	0.67
4:MC:192:HIS:HA	4:MC:195:LEU:HD23	1.77	0.67
39:MD:501:GTP:O3'	39:MD:501:GTP:O3G	2.13	0.67
4:ME:264:ARG:O	4:ME:266:HIS:ND1	2.28	0.67
4:OA:144:GLY:N	39:OA:501:GTP:O2B	2.28	0.67
4:OA:338:LYS:HZ2	4:OA:340:THR:H	1.41	0.67
29:P1:416:HIS:HD2	29:P1:420:VAL:HG22	1.59	0.67
29:P3:524:ARG:NH2	3:VL:38:GLY:O	2.28	0.67
4:PC:9:VAL:HG11	4:PC:150:ALA:HB2	1.77	0.67
3:PD:378:PHE:HA	3:PD:381:ILE:HG12	1.75	0.67
27:Q:15:LEU:HD23	27:Q:18:LYS:HD2	1.76	0.67
30:Q1:1358:ILE:O	30:Q1:1394:PHE:N	2.26	0.67
4:QM:49:PHE:O	4:QM:53:PHE:N	2.28	0.67
4:RE:388:TRP:HB3	4:RE:425:LEU:HD11	1.77	0.67
3:RJ:350:LYS:HE3	4:RK:181:VAL:H	1.59	0.67
4:TC:229:ARG:HE	4:TC:368:LEU:HD22	1.59	0.67
3:TJ:100:ASN:HB3	3:TJ:103:LYS:HB2	1.76	0.67
33:U:168:VAL:HG13	33:U:172:ARG:HH21	1.60	0.67
3:UF:372:THR:HB	3:UF:375:GLN:HE22	1.60	0.67
4:UI:25:CYS:HB2	4:UI:30:ILE:HB	1.77	0.67
4:VC:12:ALA:HB2	39:VC:501:GTP:H5"	1.75	0.67
4:VK:208:ALA:H	4:VK:304:LYS:HZ1	1.42	0.67
4:WA:388:TRP:HB3	4:WA:425:LEU:HD11	1.77	0.67
3:WD:269:GLY:HA2	3:WD:300:MET:HE1	1.76	0.67
4:WE:1:MET:SD	4:WE:2:ARG:N	2.68	0.67
33:X:454:ARG:O	33:X:454:ARG:NH1	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:XH:207:ASP:O	35:XH:210:GLN:NE2	2.28	0.67
35:XI:71:HIS:O	35:XI:77:LYS:NZ	2.28	0.67
2:A3:320:ARG:NH1	2:A3:334:GLN:OE1	2.28	0.67
3:AB:117:LEU:HD11	3:AB:154:LYS:HD2	1.75	0.67
3:BL:269:GLY:HA2	3:BL:300:MET:HE1	1.76	0.67
4:BM:224:TYR:CB	4:BM:227:LEU:HB2	2.25	0.67
7:C4:248:ARG:O	7:C4:252:HIS:ND1	2.27	0.67
7:C9:415:MET:HG3	7:C9:416:ALA:N	2.10	0.67
3:CD:84:ILE:O	3:CD:86:ARG:NH1	2.26	0.67
4:CE:205:ASP:OD2	4:CE:304:LYS:NZ	2.26	0.67
3:CH:12:CYS:SG	39:CH:501:GTP:H5'	2.35	0.67
8:D4:75:GLU:O	8:D4:78:ARG:HG2	1.95	0.67
4:DC:224:TYR:CE2	39:DC:501:GTP:C5	2.83	0.67
3:DH:60:VAL:HG23	3:DH:86:ARG:HH11	1.60	0.67
3:EB:317:PHE:HB3	3:EB:321:MET:HE3	1.76	0.67
3:ED:317:PHE:HB3	3:ED:321:MET:HE3	1.76	0.67
3:EH:216:LYS:HB2	3:EH:276:ARG:HD2	1.75	0.67
4:EI:288:VAL:HG21	4:EI:328:VAL:HA	1.77	0.67
11:F4:129:GLN:HA	11:F4:132:HIS:CD2	2.29	0.67
11:F4:319:GLU:O	11:F4:323:HIS:ND1	2.20	0.67
4:FA:252:LEU:HA	4:FA:255:PHE:HD2	1.60	0.67
3:FB:385:PHE:HA	3:FB:388:MET:HE2	1.77	0.67
3:FD:194:GLU:OE1	3:FD:195:ASN:ND2	2.28	0.67
11:Fb:415:ARG:HH12	11:Fc:137:GLY:C	2.03	0.67
4:GA:271:THR:HA	4:GA:302:MET:HE1	1.75	0.67
3:GD:141:GLY:HA3	39:GD:501:GTP:H5"	1.76	0.67
15:H5:215:ARG:HA	15:H5:244:MET:SD	2.35	0.67
16:I:184:ARG:HH12	16:I:209:ALA:H	1.41	0.67
3:ID:182:PRO:HB2	3:ID:388:MET:HE1	1.77	0.67
4:IK:203:MET:HE1	4:IK:267:PHE:HB3	1.77	0.67
4:JK:388:TRP:HB3	4:JK:425:LEU:HD11	1.76	0.67
4:KA:108:TYR:O	4:KA:112:LYS:NZ	2.23	0.67
4:KC:25:CYS:HB2	4:KC:30:ILE:HB	1.75	0.67
3:KH:66:VAL:HG11	3:KH:147:MET:HE3	1.76	0.67
4:KI:316:CYS:HB3	4:KI:378:LEU:HB3	1.76	0.67
22:L3:77:LYS:HG3	22:L3:78:PHE:H	1.59	0.67
3:LB:423:GLN:O	3:LB:427:ASP:N	2.28	0.67
4:MC:211:ASP:O	4:MC:214:ARG:NH1	2.28	0.67
4:MI:12:ALA:HB2	39:MI:501:GTP:H5"	1.77	0.67
4:OA:192:HIS:HA	4:OA:195:LEU:HD23	1.76	0.67
3:OD:46:ARG:HH12	4:OE:73:THR:HG23	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:OK:208:ALA:H	4:OK:304:LYS:HZ1	1.42	0.67
3:OL:374:ILE:HA	3:OL:377:LEU:HD13	1.77	0.67
4:PC:144:GLY:N	39:PC:501:GTP:O2B	2.28	0.67
4:QG:98:ASP:O	4:QG:105:ARG:NH2	2.28	0.67
4:QG:140:SER:HB2	4:QG:171:ILE:HG22	1.77	0.67
3:QJ:317:PHE:HB3	3:QJ:321:MET:HE3	1.77	0.67
3:QL:41:ASP:HB2	37:YU:20:GLN:HG2	1.77	0.67
3:RH:257:MET:HA	3:RH:312:THR:HG21	1.77	0.67
4:SC:425:LEU:HD13	4:SC:428:LEU:HD12	1.77	0.67
3:SD:247:ASN:HB3	3:SD:252:LYS:HG2	1.77	0.67
3:TD:107:THR:OG1	3:TD:401:GLU:OE2	2.11	0.67
4:UE:9:VAL:HG11	4:UE:150:ALA:HB2	1.77	0.67
4:VG:88:HIS:HB3	4:VG:91:GLN:HB2	1.75	0.67
3:VH:309:ARG:H	3:VH:372:THR:HG1	1.41	0.67
4:VK:391:LEU:HD23	4:VK:394:LYS:HZ1	1.58	0.67
4:WC:46:ASP:OD1	4:WC:50:ASN:ND2	2.27	0.67
3:WD:372:THR:HB	3:WD:375:GLN:HE22	1.60	0.67
3:WL:4:ILE:HD11	3:WL:131:GLN:HB2	1.75	0.67
34:XD:115:LYS:O	34:XD:144:TYR:OH	2.13	0.67
34:XF:75:PHE:HB2	34:XF:168:SER:O	1.95	0.67
3:AB:60:VAL:HG23	3:AB:86:ARG:HH11	1.59	0.66
4:AI:54:SER:HB2	4:AI:62:VAL:HB	1.76	0.66
5:B2:7:LYS:HZ3	8:D5:329:ILE:CB	2.08	0.66
5:B6:176:HIS:HA	5:B6:179:LYS:NZ	2.09	0.66
6:C:178:ILE:HG22	6:C:180:MET:HE3	1.76	0.66
7:C8:414:ASP:N	7:C8:417:GLN:OE1	2.27	0.66
3:CB:170:VAL:N	3:CB:202:ILE:O	2.28	0.66
4:CC:54:SER:HB2	4:CC:62:VAL:HB	1.76	0.66
4:CG:49:PHE:HB2	4:CG:53:PHE:HB2	1.76	0.66
4:CK:415:GLU:OE1	4:CK:419:SER:OG	2.12	0.66
8:D7:332:GLN:HA	8:D8:78:ARG:NH1	2.11	0.66
3:DB:60:VAL:HG23	3:DB:86:ARG:HH11	1.60	0.66
3:DH:46:ARG:HH22	4:DI:73:THR:HA	1.60	0.66
3:DL:278:SER:HA	3:DL:281:TYR:HB2	1.76	0.66
3:ED:273:LEU:H	3:ED:292:GLN:HE22	1.44	0.66
11:F4:89:ARG:NH1	11:F4:90:TYR:O	2.28	0.66
11:F7:106:ALA:O	11:F7:110:ARG:HG3	1.95	0.66
3:FB:117:LEU:HD11	3:FB:154:LYS:HD2	1.77	0.66
4:FI:236:SER:O	4:FI:243:ARG:NH2	2.27	0.66
3:GB:317:PHE:HB3	3:GB:321:MET:HE3	1.77	0.66
3:GJ:304:ASP:O	3:GJ:307:HIS:ND1	2.27	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H5:299:THR:O	15:H5:303:SER:N	2.28	0.66
3:HB:156:ARG:HH11	3:HB:195:ASN:HD22	1.42	0.66
3:IB:170:VAL:N	3:IB:202:ILE:O	2.26	0.66
4:II:49:PHE:O	4:II:53:PHE:N	2.28	0.66
4:IK:178:SER:OG	4:IK:180:ALA:O	2.11	0.66
4:JI:236:SER:O	4:JI:243:ARG:NH2	2.26	0.66
21:K4:474:TYR:O	21:K4:478:GLN:NE2	2.28	0.66
3:KB:77:ARG:O	3:KB:77:ARG:NH1	2.24	0.66
3:LB:13:GLY:HA2	3:LB:16:ILE:HB	1.77	0.66
4:LI:244:PHE:HB2	4:LI:356:ASN:HD21	1.60	0.66
4:LK:208:ALA:H	4:LK:304:LYS:HZ1	1.41	0.66
4:MC:273:ALA:HB2	4:MC:295:CYS:HB3	1.76	0.66
4:MG:53:PHE:O	4:MG:64:ARG:NH1	2.28	0.66
3:NF:117:LEU:HD11	3:NF:154:LYS:HD2	1.77	0.66
4:NG:223:THR:OG1	4:NG:225:THR:OG1	2.13	0.66
3:NH:33:THR:O	3:NH:58:LYS:NZ	2.28	0.66
4:OA:216:ASN:HB2	4:OA:276:ILE:HD12	1.78	0.66
3:OB:83:GLN:O	3:OB:86:ARG:NH2	2.28	0.66
4:OE:229:ARG:HE	4:OE:368:LEU:HD22	1.59	0.66
3:OH:246:LEU:HB2	3:OH:352:ALA:HB1	1.75	0.66
4:OI:358:GLN:NE2	4:OI:359:PRO:O	2.28	0.66
3:PH:117:LEU:HD11	3:PH:154:LYS:HD2	1.77	0.66
3:PJ:132:GLY:HA2	3:PJ:162:ARG:HB3	1.77	0.66
4:PK:54:SER:HB2	4:PK:62:VAL:HB	1.77	0.66
3:QB:278:SER:HA	3:QB:281:TYR:HB2	1.77	0.66
3:QF:48:ASN:O	3:QF:62:ARG:NH2	2.26	0.66
3:QL:385:PHE:HZ	3:QL:408:PHE:HB3	1.60	0.66
4:RM:50:ASN:O	4:RM:64:ARG:NH1	2.28	0.66
3:SD:374:ILE:HA	3:SD:377:LEU:HD13	1.77	0.66
4:SE:49:PHE:O	4:SE:53:PHE:N	2.27	0.66
4:SE:338:LYS:HZ2	4:SE:340:THR:H	1.42	0.66
3:SH:48:ASN:O	3:SH:62:ARG:NH2	2.24	0.66
3:TD:39:ASP:OD1	3:TD:43:GLN:NE2	2.28	0.66
4:TG:30:ILE:HA	4:TG:36:MET:HE1	1.76	0.66
4:TM:321:GLY:N	4:TM:356:ASN:O	2.23	0.66
4:UC:144:GLY:N	39:UC:501:GTP:O2B	2.28	0.66
3:UD:278:SER:HA	3:UD:281:TYR:HB2	1.76	0.66
4:UG:161:TYR:O	4:UG:166:LYS:NZ	2.28	0.66
3:UH:278:SER:HA	3:UH:281:TYR:HB2	1.78	0.66
3:UJ:372:THR:HB	3:UJ:375:GLN:HE22	1.59	0.66
4:VC:316:CYS:HB3	4:VC:378:LEU:HB3	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VJ:284:LEU:HG	3:VJ:363:MET:HE2	1.74	0.66
3:WD:16:ILE:HD13	3:WD:226:ASN:HD22	1.60	0.66
4:WE:208:ALA:H	4:WE:304:LYS:HZ1	1.41	0.66
3:WF:216:LYS:O	3:WF:276:ARG:NH2	2.28	0.66
3:WH:55:THR:O	3:WH:58:LYS:NZ	2.26	0.66
35:XL:71:HIS:O	35:XL:77:LYS:NZ	2.28	0.66
37:YB:155:SER:HA	37:YB:158:LEU:HG	1.77	0.66
37:YF:41:ARG:HH12	37:YF:45:SER:H	1.43	0.66
2:A1:384:TYR:O	2:A1:388:VAL:HG12	1.94	0.66
2:A3:97:ARG:HA	2:A3:100:ARG:HD2	1.76	0.66
4:AC:236:SER:O	4:AC:243:ARG:NH2	2.28	0.66
4:AE:210:TYR:OH	4:AE:221:ARG:NH2	2.28	0.66
3:AF:278:SER:HA	3:AF:281:TYR:HB2	1.77	0.66
1:B:301:LEU:HA	1:B:304:LYS:HD2	1.77	0.66
7:C2:96:PRO:HB3	7:C2:99:TRP:HE3	1.59	0.66
4:CC:76:ASP:OD1	4:CC:79:ARG:NH2	2.28	0.66
4:CE:12:ALA:O	39:CE:501:GTP:N1	2.29	0.66
4:CK:1:MET:SD	4:CK:2:ARG:N	2.67	0.66
4:CK:25:CYS:HB2	4:CK:30:ILE:HB	1.77	0.66
3:CL:293:MET:HE3	3:CL:367:PHE:HB2	1.77	0.66
8:D8:111:HIS:HA	8:D8:114:LYS:HD3	1.75	0.66
4:DA:205:ASP:OD2	4:DA:304:LYS:NZ	2.27	0.66
3:DB:245:GLN:OE1	4:DC:15:GLN:NE2	2.29	0.66
4:DG:89:PRO:HD2	4:EG:280:LYS:HZ3	1.60	0.66
3:DH:132:GLY:HA2	3:DH:162:ARG:HB3	1.77	0.66
4:EC:52:PHE:HZ	4:EC:239:THR:HB	1.60	0.66
4:EC:338:LYS:HZ2	4:EC:340:THR:H	1.43	0.66
4:EG:46:ASP:OD1	4:EG:50:ASN:ND2	2.27	0.66
3:EJ:302:ALA:HB1	3:EJ:377:LEU:HD21	1.77	0.66
11:F2:96:ASP:OD1	11:F2:97:ARG:N	2.27	0.66
11:F4:140:ARG:O	11:F4:144:GLN:NE2	2.27	0.66
11:F8:175:ARG:HA	11:F8:178:GLU:HG3	1.77	0.66
11:Fk:195:LEU:HD12	11:Fk:198:ARG:HE	1.61	0.66
12:G:84:GLN:HB3	12:G:88:GLN:HE22	1.61	0.66
13:G2:164:HIS:CD2	13:G2:166:LYS:HG2	2.31	0.66
14:G6:33:ARG:NH1	3:ML:92:PHE:O	2.28	0.66
4:GC:139:HIS:CE1	4:GC:168:GLU:HB3	2.30	0.66
4:GE:208:ALA:H	4:GE:304:LYS:HZ1	1.42	0.66
15:H4:216:LYS:HE2	15:H4:219:SER:H	1.60	0.66
15:H5:250:ASN:OD1	15:H5:251:GLN:N	2.28	0.66
4:HC:53:PHE:O	4:HC:64:ARG:NH1	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HI:2:ARG:NH2	4:HI:250:VAL:O	2.29	0.66
3:IL:250:LEU:O	3:IL:254:ALA:N	2.27	0.66
4:JG:273:ALA:HB2	4:JG:295:CYS:HB3	1.77	0.66
4:KC:271:THR:HA	4:KC:302:MET:HE1	1.75	0.66
3:KF:136:THR:HA	3:KF:167:PHE:HB2	1.77	0.66
4:KK:419:SER:HA	4:KK:422:ARG:HE	1.60	0.66
4:LE:53:PHE:O	4:LE:64:ARG:NH1	2.29	0.66
4:LK:358:GLN:NE2	4:LK:359:PRO:O	2.26	0.66
39:LL:501:GTP:O3G	39:LL:501:GTP:O3'	2.10	0.66
3:MB:48:ASN:O	3:MB:62:ARG:NH2	2.25	0.66
4:MI:1:MET:SD	4:MI:2:ARG:N	2.68	0.66
4:OG:346:TRP:HA	3:OH:391:ARG:HH21	1.58	0.66
4:OI:229:ARG:HE	4:OI:368:LEU:HD22	1.60	0.66
3:QB:357:PRO:HB3	3:QB:362:LYS:HA	1.77	0.66
4:QE:102:ASN:ND2	4:QE:411:GLU:OE2	2.26	0.66
3:QH:278:SER:HA	3:QH:281:TYR:HB2	1.76	0.66
4:QI:53:PHE:O	4:QI:64:ARG:NH1	2.29	0.66
3:RL:357:PRO:HB3	3:RL:362:LYS:HA	1.77	0.66
4:SC:229:ARG:HE	4:SC:368:LEU:HD22	1.60	0.66
3:SL:280:GLN:OE1	3:SL:280:GLN:N	2.28	0.66
4:TE:25:CYS:HB2	4:TE:30:ILE:HB	1.77	0.66
4:TG:7:ILE:N	4:TG:136:LEU:O	2.27	0.66
3:TJ:3:GLU:HG2	3:TJ:130:LEU:HD23	1.78	0.66
4:UI:108:TYR:O	4:UI:112:LYS:NZ	2.25	0.66
4:VG:127:ASP:OD1	4:VG:128:LEU:N	2.28	0.66
3:VJ:271:ALA:HA	3:VJ:293:MET:HE1	1.76	0.66
3:WB:250:LEU:O	3:WB:254:ALA:N	2.21	0.66
3:WH:211:CYS:HA	3:WH:215:LEU:HB2	1.77	0.66
3:WH:247:ASN:HB3	3:WH:252:LYS:HG2	1.77	0.66
4:WI:338:LYS:HZ2	4:WI:340:THR:H	1.40	0.66
34:XA:14:LEU:HB3	34:XA:165:VAL:HG12	1.77	0.66
34:XF:106:SER:HB2	34:XF:109:GLN:HG2	1.77	0.66
37:YO:16:LYS:HA	37:YO:19:GLN:HG2	1.77	0.66
3:AJ:286:VAL:HG21	3:AJ:325:GLU:HG3	1.77	0.66
4:AM:216:ASN:ND2	4:AM:275:VAL:O	2.29	0.66
4:AM:371:VAL:HG11	4:AM:374:ALA:HB2	1.77	0.66
3:BD:83:GLN:O	3:BD:86:ARG:NH2	2.28	0.66
3:BD:309:ARG:H	3:BD:372:THR:HG1	1.41	0.66
4:BE:32:PRO:O	4:BE:85:GLN:NE2	2.27	0.66
3:BH:44:LEU:HD21	15:H4:25:PRO:HG3	1.77	0.66
7:C7:365:LEU:HD21	7:C7:455:LEU:HB3	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CJ:269:GLY:HA2	3:CJ:300:MET:HE1	1.77	0.66
7:Cb:214:GLU:HA	7:Cb:217:LYS:HD2	1.77	0.66
4:DC:49:PHE:O	4:DC:53:PHE:N	2.28	0.66
4:DC:89:PRO:HD2	4:EC:280:LYS:HZ3	1.60	0.66
4:DE:192:HIS:HA	4:DE:195:LEU:HD23	1.76	0.66
4:DK:53:PHE:O	4:DK:64:ARG:NH1	2.28	0.66
11:F2:433:ARG:HH21	11:F3:120:SER:HB3	1.61	0.66
4:FK:152:LEU:O	4:FK:156:ARG:NH1	2.29	0.66
13:G3:217:LYS:HG3	13:G3:218:GLU:H	1.60	0.66
14:G4:51:GLN:HG2	14:G4:53:ILE:HD11	1.78	0.66
14:G4:293:TYR:HD2	14:G4:298:ILE:HG12	1.60	0.66
15:H4:13:GLU:HG3	15:H4:14:PRO:HA	1.77	0.66
4:HA:49:PHE:O	4:HA:53:PHE:N	2.28	0.66
4:HA:332:ILE:HA	4:HA:335:ILE:HD12	1.76	0.66
4:HK:338:LYS:HZ2	4:HK:340:THR:H	1.42	0.66
3:HL:269:GLY:HA2	3:HL:300:MET:HE1	1.77	0.66
4:IE:224:TYR:HA	4:IE:227:LEU:HB2	1.76	0.66
3:IF:77:ARG:O	3:IF:77:ARG:NH1	2.24	0.66
21:K2:139:ARG:HH12	21:K2:280:THR:HB	1.61	0.66
4:KG:306:ASP:OD2	4:NG:282:TYR:OH	2.11	0.66
22:L2:105:PHE:CZ	3:LF:421:GLU:HA	2.30	0.66
3:LB:359:ARG:HB2	27:Q:136:SER:HB3	1.76	0.66
3:LH:83:GLN:O	3:LH:86:ARG:NH2	2.27	0.66
3:LJ:278:SER:HA	3:LJ:281:TYR:HB2	1.77	0.66
3:MD:324:LYS:HD2	4:ME:221:ARG:HA	1.76	0.66
4:MK:207:GLU:HB2	4:MK:304:LYS:HZ1	1.59	0.66
3:NB:60:VAL:HG23	3:NB:86:ARG:HH11	1.61	0.66
4:OG:344:VAL:HB	4:OG:346:TRP:HD1	1.61	0.66
4:OG:346:TRP:HA	3:OH:391:ARG:NH2	2.10	0.66
4:OI:54:SER:HB2	4:OI:62:VAL:HB	1.78	0.66
3:OL:372:THR:HG21	3:OL:426:GLN:HG3	1.75	0.66
4:PE:108:TYR:O	4:PE:112:LYS:NZ	2.24	0.66
3:PH:33:THR:O	3:PH:58:LYS:NZ	2.28	0.66
3:PH:309:ARG:N	3:PH:372:THR:OG1	2.22	0.66
3:PJ:48:ASN:O	3:PJ:62:ARG:NH2	2.25	0.66
4:QK:9:VAL:HG11	4:QK:150:ALA:HB2	1.77	0.66
4:QM:192:HIS:HA	4:QM:195:LEU:HD23	1.76	0.66
4:QM:396:ASP:OD1	4:QM:397:LEU:N	2.28	0.66
3:RB:42:LEU:HD12	3:RB:243:PRO:HD2	1.76	0.66
3:RD:46:ARG:HH12	4:RE:73:THR:HG23	1.60	0.66
3:RF:170:VAL:N	3:RF:202:ILE:O	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RF:296:ALA:HA	3:RF:299:MET:HE3	1.77	0.66
4:RG:192:HIS:HA	4:RG:195:LEU:HD23	1.77	0.66
3:TD:2:ARG:HB3	3:TD:131:GLN:NE2	2.10	0.66
3:TH:273:LEU:H	3:TH:292:GLN:HE22	1.42	0.66
4:TI:9:VAL:HG11	4:TI:150:ALA:HB2	1.77	0.66
4:TI:67:PHE:HB2	4:TI:92:LEU:HD13	1.77	0.66
3:TL:250:LEU:O	3:TL:254:ALA:N	2.23	0.66
3:UB:309:ARG:H	3:UB:372:THR:HG1	1.42	0.66
3:UL:318:ARG:HG3	3:UL:354:CYS:HB3	1.76	0.66
4:VE:208:ALA:H	4:VE:304:LYS:HZ1	1.41	0.66
3:WH:392:LYS:HB2	3:WH:395:LEU:HD13	1.76	0.66
3:WJ:117:LEU:HD11	3:WJ:154:LYS:HD2	1.76	0.66
3:WJ:412:GLU:OE1	3:WJ:416:ASN:ND2	2.25	0.66
4:WK:49:PHE:O	4:WK:53:PHE:N	2.27	0.66
34:XF:79:ILE:HD13	34:XF:164:ARG:HB3	1.76	0.66
2:A3:69:GLU:CD	2:A3:73:TRP:HE1	2.03	0.66
3:AD:33:THR:O	3:AD:58:LYS:NZ	2.28	0.66
3:AL:32:PRO:O	3:AL:83:GLN:NE2	2.26	0.66
3:BH:317:PHE:O	3:BH:354:CYS:N	2.26	0.66
4:CE:52:PHE:HZ	4:CE:239:THR:HB	1.60	0.66
8:D3:237:GLN:HA	8:D3:239:GLN:HE22	1.61	0.66
8:D4:128:THR:HA	8:D4:131:MET:HE3	1.77	0.66
8:D5:336:ILE:HD11	8:D5:395:LEU:HG	1.77	0.66
8:D6:332:GLN:OE1	8:D6:335:GLN:NE2	2.28	0.66
3:DB:309:ARG:H	3:DB:372:THR:HG1	1.40	0.66
3:EB:48:ASN:O	3:EB:62:ARG:NH2	2.29	0.66
4:EE:427:ALA:HA	4:EE:430:LYS:HE2	1.77	0.66
3:EH:27:GLU:HA	3:EH:359:ARG:HE	1.60	0.66
9:F:403:ASN:O	4:IM:372:GLN:NE2	2.28	0.66
11:F9:402:ARG:HB2	11:F9:407:LEU:HA	1.76	0.66
3:FH:48:ASN:O	3:FH:62:ARG:NH2	2.28	0.66
3:FH:289:LEU:HD22	3:FH:363:MET:HE2	1.78	0.66
11:Fb:410:ASP:H	11:Fc:145:ARG:NH2	1.94	0.66
11:Fl:440:THR:HA	11:Fl:443:LEU:HD12	1.78	0.66
13:G1:496:ILE:HD11	13:G1:503:PHE:HB2	1.77	0.66
14:G4:132:ARG:HB2	14:G4:134:GLN:HE22	1.59	0.66
14:G4:664:SER:O	14:G4:666:ARG:NH1	2.28	0.66
14:G5:413:PRO:O	14:G5:415:ARG:NH1	2.27	0.66
14:G5:633:GLU:HB3	14:G5:699:TRP:HZ2	1.59	0.66
14:G6:346:VAL:HB	14:G6:349:ARG:HB2	1.77	0.66
4:GA:205:ASP:OD2	4:GA:304:LYS:NZ	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:GI:32:PRO:O	4:GI:85:GLN:NE2	2.29	0.66
3:HF:170:VAL:N	3:HF:202:ILE:O	2.27	0.66
3:HH:214:THR:HG21	3:HH:273:LEU:HB3	1.77	0.66
3:HJ:246:LEU:HB2	3:HJ:352:ALA:HB1	1.76	0.66
3:IL:211:CYS:HA	3:IL:215:LEU:HB2	1.76	0.66
4:JC:203:MET:N	4:JC:203:MET:SD	2.69	0.66
4:JE:216:ASN:ND2	4:JE:275:VAL:O	2.29	0.66
21:K2:474:TYR:O	21:K2:478:GLN:NE2	2.28	0.66
4:KE:70:LEU:HD13	4:KE:95:GLY:HA3	1.75	0.66
3:KH:141:GLY:HA3	39:KH:501:GTP:H5"	1.78	0.66
3:LF:344:TRP:O	4:LG:401:LYS:NZ	2.28	0.66
4:MC:166:LYS:HE2	4:MC:198:SER:HA	1.77	0.66
4:MC:415:GLU:OE1	4:MC:419:SER:OG	2.13	0.66
3:OB:131:GLN:HB3	3:OB:163:ILE:HD12	1.78	0.66
3:OD:278:SER:HA	3:OD:281:TYR:HB2	1.77	0.66
3:OJ:46:ARG:HH12	4:OK:73:THR:HG23	1.59	0.66
3:OJ:145:SER:HB2	3:OJ:188:SER:HB3	1.77	0.66
3:OJ:170:VAL:N	3:OJ:202:ILE:O	2.24	0.66
3:OJ:309:ARG:H	3:OJ:372:THR:HG1	1.41	0.66
3:PF:258:VAL:HA	3:PF:263:LEU:HD11	1.77	0.66
3:RD:309:ARG:H	3:RD:372:THR:HG1	1.42	0.66
3:RD:410:GLU:HA	3:RD:413:SER:HB3	1.76	0.66
4:RG:229:ARG:HE	4:RG:368:LEU:HD22	1.59	0.66
4:SC:213:CYS:O	4:SC:219:ILE:N	2.23	0.66
3:SH:173:PRO:O	3:SH:380:ARG:NH2	2.29	0.66
3:SJ:374:ILE:HA	3:SJ:377:LEU:HD13	1.78	0.66
4:TG:5:ILE:HD13	4:TG:64:ARG:HB3	1.76	0.66
3:TL:48:ASN:O	3:TL:62:ARG:NH2	2.27	0.66
4:TM:54:SER:HB2	4:TM:62:VAL:HB	1.77	0.66
4:UA:216:ASN:ND2	4:UA:275:VAL:O	2.29	0.66
3:UH:48:ASN:O	3:UH:62:ARG:NH2	2.27	0.66
4:VI:30:ILE:HA	4:VI:36:MET:HE1	1.77	0.66
3:WH:302:ALA:HB1	3:WH:377:LEU:HD21	1.76	0.66
35:XK:130:ILE:HG13	35:XK:131:PRO:HD3	1.78	0.66
37:YG:8:LEU:HA	37:YG:11:ILE:HB	1.76	0.66
37:YH:82:HIS:CE1	37:YH:86:LEU:HD11	2.30	0.66
37:YP:128:ASP:HA	37:YP:131:ARG:HD3	1.77	0.66
37:YS:4:VAL:HG13	37:YS:79:LEU:HD22	1.76	0.66
2:A2:311:LYS:HB3	2:A3:198:ILE:HG22	1.77	0.66
3:AD:424:GLN:HG3	35:XI:183:ILE:HB	1.78	0.66
4:AG:402:ARG:HH21	35:XJ:233:PRO:HG2	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AJ:170:VAL:N	3:AJ:202:ILE:O	2.28	0.66
4:AM:88:HIS:CE1	4:AM:121:ARG:HH22	2.13	0.66
4:BK:216:ASN:HB2	4:BK:276:ILE:HD12	1.78	0.66
7:C7:111:ASN:O	7:C7:115:HIS:ND1	2.28	0.66
7:C9:347:PHE:CE2	7:C9:351:ILE:HD11	2.31	0.66
3:CB:273:LEU:H	3:CB:292:GLN:HE22	1.43	0.66
7:Cc:365:LEU:HD13	7:Cc:455:LEU:HD22	1.76	0.66
8:D2:252:SER:OG	8:D3:368:LEU:O	2.12	0.66
8:D5:307:ARG:NH1	8:D5:310:GLU:OE1	2.29	0.66
8:D7:392:LYS:HA	8:D7:395:LEU:HD12	1.78	0.66
4:DE:125:LEU:HD13	4:DE:128:LEU:HD21	1.76	0.66
3:DH:309:ARG:H	3:DH:372:THR:HG1	1.44	0.66
4:DK:30:ILE:HA	4:DK:36:MET:HE1	1.77	0.66
4:EE:324:VAL:HG11	3:EF:219:THR:HB	1.76	0.66
3:EF:75:SER:O	14:G5:482:LYS:NZ	2.23	0.66
3:EJ:322:SER:OG	3:EJ:324:LYS:NZ	2.28	0.66
11:F1:433:ARG:HH21	11:F2:120:SER:HB3	1.61	0.66
11:F5:162:ARG:O	11:F5:165:THR:OG1	2.13	0.66
11:F7:160:LEU:HD21	11:F7:250:LEU:HB3	1.76	0.66
4:FC:144:GLY:N	39:FC:501:GTP:O2B	2.29	0.66
13:G3:31:LEU:HD13	3:LL:70:PRO:HB3	1.74	0.66
13:G3:170:ARG:O	13:G3:202:ASN:ND2	2.29	0.66
4:GI:316:CYS:N	4:GI:378:LEU:O	2.29	0.66
4:HE:295:CYS:HB2	4:HE:377:MET:HE3	1.76	0.66
4:IA:25:CYS:HB2	4:IA:30:ILE:HB	1.76	0.66
4:IA:32:PRO:O	4:IA:85:GLN:NE2	2.28	0.66
3:IB:317:PHE:O	3:IB:354:CYS:N	2.25	0.66
4:IM:53:PHE:O	4:IM:64:ARG:NH1	2.28	0.66
19:J3:133:THR:HA	19:J3:136:LYS:HE3	1.77	0.66
4:JI:98:ASP:O	4:JI:105:ARG:NH2	2.25	0.66
4:JK:88:HIS:HB3	4:JK:91:GLN:HB2	1.77	0.66
3:KD:317:PHE:HB3	3:KD:321:MET:HE3	1.78	0.66
4:KG:207:GLU:HB2	4:KG:304:LYS:HZ1	1.59	0.66
3:LH:282:ARG:NH2	3:LH:292:GLN:OE1	2.26	0.66
3:LJ:324:LYS:HE2	4:LK:222:PRO:CD	2.26	0.66
4:ME:112:LYS:HB3	26:N2:99:ILE:HD12	1.78	0.66
4:NI:205:ASP:OD2	4:NI:304:LYS:NZ	2.25	0.66
4:NI:301:GLN:HG3	4:NI:303:VAL:H	1.60	0.66
3:NL:372:THR:HG21	3:NL:426:GLN:HG3	1.77	0.66
3:OF:118:ASP:OD1	3:OF:121:ARG:NH1	2.29	0.66
4:OK:229:ARG:HE	4:OK:368:LEU:HD22	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:OK:338:LYS:HZ2	4:OK:340:THR:H	1.43	0.66
27:P:284:ILE:O	27:P:288:GLN:NE2	2.29	0.66
4:PE:358:GLN:NE2	4:PE:359:PRO:O	2.29	0.66
3:QB:216:LYS:O	3:QB:276:ARG:NH2	2.27	0.66
3:RD:322:SER:OG	3:RD:324:LYS:NZ	2.28	0.66
3:RF:420:SER:HB2	3:RF:424:GLN:HE22	1.60	0.66
3:TB:278:SER:HA	3:TB:281:TYR:HB2	1.77	0.66
3:UF:211:CYS:HA	3:UF:215:LEU:HB2	1.75	0.66
3:UH:32:PRO:O	3:UH:83:GLN:NE2	2.23	0.66
4:UI:192:HIS:HA	4:UI:195:LEU:HD23	1.77	0.66
3:UJ:412:GLU:OE1	3:UJ:416:ASN:ND2	2.28	0.66
4:VE:316:CYS:HB3	4:VE:378:LEU:HB3	1.76	0.66
3:VF:12:CYS:SG	3:VF:13:GLY:N	2.69	0.66
3:VJ:357:PRO:HB3	3:VJ:362:LYS:HA	1.77	0.66
4:WA:207:GLU:HB2	4:WA:304:LYS:HZ1	1.59	0.66
4:WE:5:ILE:HD13	4:WE:64:ARG:HB3	1.76	0.66
3:WH:324:LYS:NZ	4:WI:222:PRO:O	2.22	0.66
35:XL:153:LEU:HD21	35:XL:181:LEU:HD11	1.77	0.66
36:Y:234:ALA:HA	36:Y:237:MET:HE2	1.77	0.66
37:YD:80:CYS:HA	37:YD:83:PHE:HD2	1.60	0.66
37:YH:140:LEU:HD12	37:YH:141:ILE:HG13	1.77	0.66
37:YK:144:VAL:HA	37:YK:147:PHE:HE2	1.59	0.66
2:A3:69:GLU:OE2	2:A3:73:TRP:NE1	2.26	0.66
4:AC:108:TYR:O	4:AC:112:LYS:NZ	2.23	0.66
4:AG:192:HIS:HA	4:AG:195:LEU:HD23	1.78	0.66
4:AK:205:ASP:OD2	4:AK:304:LYS:NZ	2.21	0.66
1:B:482:ARG:NH2	11:Fb:309:ASN:OD1	2.29	0.66
5:B1:114:ILE:HA	5:B1:117:LEU:HD12	1.77	0.66
5:B3:123:ARG:HB3	5:B3:128:VAL:HG22	1.78	0.66
7:C1:144:GLN:OE1	7:C1:145:ASN:ND2	2.28	0.66
7:C9:466:LEU:HG	7:C9:470:GLN:HE22	1.60	0.66
3:CD:163:ILE:HD11	3:CD:251:ARG:HH11	1.59	0.66
4:CI:115:VAL:HG21	4:CI:156:ARG:HD3	1.78	0.66
3:CJ:211:CYS:HA	3:CJ:215:LEU:HB2	1.77	0.66
8:D3:180:THR:O	8:D3:184:ARG:NE	2.28	0.66
8:D8:58:GLN:HG3	11:Ff:384:ALA:HB1	1.77	0.66
4:EA:38:SER:O	14:G4:716:LYS:NZ	2.29	0.66
4:EA:108:TYR:O	4:EA:112:LYS:NZ	2.23	0.66
3:EB:211:CYS:HA	3:EB:215:LEU:HB2	1.75	0.66
3:EB:316:VAL:HG22	3:EB:352:ALA:HB3	1.76	0.66
4:EC:127:ASP:OD1	4:EC:128:LEU:N	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EF:322:SER:OG	3:EF:324:LYS:NZ	2.27	0.66
4:EG:208:ALA:H	4:EG:304:LYS:HZ1	1.42	0.66
11:F2:422:THR:O	11:F2:426:THR:HG23	1.95	0.66
11:F3:256:ASP:OD1	11:F3:257:LYS:N	2.28	0.66
11:F4:90:TYR:OH	11:Fm:433:ARG:NH2	2.29	0.66
4:FE:9:VAL:HG11	4:FE:150:ALA:HB2	1.77	0.66
3:FF:309:ARG:H	3:FF:372:THR:HG1	1.43	0.66
3:FH:392:LYS:HB2	3:FH:395:LEU:HD13	1.77	0.66
4:FI:101:ASN:HA	4:FI:144:GLY:HA2	1.77	0.66
13:G1:164:HIS:CD2	13:G1:166:LYS:HG2	2.31	0.66
4:GG:96:LYS:HE3	23:M:139:VAL:HA	1.77	0.66
3:GJ:323:MET:SD	3:GJ:323:MET:N	2.69	0.66
15:H4:292:MET:HG3	15:H4:293:GLN:H	1.58	0.66
15:H6:306:ARG:O	15:H6:309:GLN:NE2	2.28	0.66
4:HI:144:GLY:N	39:HI:501:GTP:O2B	2.26	0.66
3:HJ:60:VAL:HG23	3:HJ:86:ARG:HH11	1.61	0.66
4:IG:236:SER:O	4:IG:243:ARG:NH2	2.28	0.66
3:IH:317:PHE:O	3:IH:354:CYS:N	2.25	0.66
3:IJ:323:MET:SD	3:IJ:324:LYS:NZ	2.64	0.66
4:JK:68:VAL:HG12	4:JK:93:ILE:HB	1.78	0.66
3:JL:317:PHE:O	3:JL:354:CYS:N	2.27	0.66
4:KC:127:ASP:OD1	4:KC:128:LEU:N	2.28	0.66
4:LC:164:LYS:HZ1	28:O1:22:TRP:CD1	2.13	0.66
4:LC:230:LEU:O	4:LC:233:GLN:NE2	2.29	0.66
3:LH:48:ASN:O	3:LH:62:ARG:NH2	2.27	0.66
3:LH:357:PRO:HB3	3:LH:362:LYS:HA	1.77	0.66
4:MC:370:LYS:HB3	27:P:345:LEU:HD13	1.77	0.66
4:MG:434:GLU:O	28:O2:55:ARG:NH1	2.28	0.66
3:NB:317:PHE:O	3:NB:354:CYS:N	2.27	0.66
4:NC:207:GLU:HB2	4:NC:304:LYS:HZ1	1.60	0.66
3:NF:305:PRO:HA	3:NF:373:ALA:HB2	1.77	0.66
4:OG:220:GLU:HG2	4:OG:221:ARG:HG2	1.77	0.66
3:PB:344:TRP:HD1	4:PC:401:LYS:HD2	1.61	0.66
3:PB:412:GLU:OE1	3:PB:416:ASN:ND2	2.29	0.66
4:PC:187:SER:O	4:PC:190:THR:OG1	2.14	0.66
30:Q2:1401:GLN:HA	30:Q2:1405:LEU:HB3	1.77	0.66
3:RH:170:VAL:N	3:RH:202:ILE:O	2.28	0.66
4:SE:42:ILE:HG21	4:SE:59:GLY:HA2	1.78	0.66
4:SE:285:GLN:HE22	4:SE:287:SER:HB3	1.61	0.66
3:SF:139:LEU:HD21	3:SF:170:VAL:HG22	1.77	0.66
4:SG:46:ASP:OD1	4:SG:50:ASN:ND2	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:SI:171:ILE:HD12	4:SI:204:VAL:HG13	1.76	0.66
4:SM:419:SER:HA	4:SM:422:ARG:HE	1.60	0.66
4:TG:229:ARG:HE	4:TG:368:LEU:HD22	1.61	0.66
4:TI:171:ILE:HD12	4:TI:204:VAL:HG13	1.76	0.66
33:U:453:GLN:HE22	33:U:454:ARG:NH1	1.93	0.66
3:UD:280:GLN:OE1	3:UD:280:GLN:N	2.29	0.66
4:UE:54:SER:HB2	4:UE:62:VAL:HB	1.78	0.66
4:UE:358:GLN:NE2	4:UE:359:PRO:O	2.27	0.66
4:UG:154:MET:HE1	4:UG:197:HIS:HB2	1.77	0.66
4:UG:419:SER:HA	4:UG:422:ARG:HE	1.60	0.66
4:VC:192:HIS:HA	4:VC:195:LEU:HD23	1.78	0.66
3:VD:173:PRO:O	3:VD:380:ARG:NH2	2.29	0.66
3:VD:385:PHE:HZ	3:VD:408:PHE:HB3	1.60	0.66
4:VE:271:THR:HA	4:VE:302:MET:HE1	1.76	0.66
3:VF:4:ILE:HD11	3:VF:131:GLN:HB2	1.78	0.66
4:VG:282:TYR:HA	33:W:207:ARG:HH12	1.60	0.66
4:VK:54:SER:HB2	4:VK:62:VAL:HB	1.76	0.66
3:VL:33:THR:O	3:VL:58:LYS:NZ	2.28	0.66
3:WB:247:ASN:HB3	3:WB:252:LYS:HG2	1.78	0.66
33:X:459:ARG:O	33:X:462:GLN:NE2	2.28	0.66
34:XD:38:THR:H	35:XJ:199:GLN:HE22	1.42	0.66
37:YI:49:VAL:HG11	37:YI:70:MET:HE3	1.78	0.66
4:AE:402:ARG:HE	35:XI:233:PRO:HG2	1.61	0.66
3:AJ:174:LYS:HG3	3:AJ:175:VAL:HG12	1.77	0.66
5:B6:392:ASP:OD2	7:C9:341:ASN:ND2	2.26	0.66
4:BK:50:ASN:O	4:BK:64:ARG:NH1	2.28	0.66
3:BL:251:ARG:HH12	4:BM:102:ASN:HB2	1.61	0.66
7:C2:383:LYS:HA	7:C2:386:ILE:HD12	1.76	0.66
3:CD:278:SER:HA	3:CD:281:TYR:HB2	1.78	0.66
3:CF:156:ARG:NH1	3:CF:195:ASN:O	2.28	0.66
8:D2:239:GLN:H	8:D3:351:ARG:CD	2.08	0.66
8:D4:252:SER:OG	8:D5:368:LEU:O	2.13	0.66
3:DD:276:ARG:HB3	13:G1:285:ARG:HE	1.61	0.66
4:DG:192:HIS:HA	4:DG:195:LEU:HD23	1.77	0.66
4:DI:89:PRO:HD2	4:EI:280:LYS:NZ	2.10	0.66
4:DI:101:ASN:HA	4:DI:144:GLY:HA2	1.78	0.66
10:E2:76:TRP:HA	10:E2:79:LEU:HD23	1.77	0.66
10:E2:153:ARG:NH1	10:E2:154:ASN:OD1	2.29	0.66
4:EG:40:LYS:H	13:G2:421:ARG:NH1	1.94	0.66
4:EI:97:GLU:OE1	4:EI:105:ARG:NH2	2.28	0.66
11:F3:399:ARG:NH2	11:F3:408:CYS:O	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:F6:160:LEU:HD13	11:F6:163:LEU:HD12	1.78	0.66
11:F7:125:GLN:O	11:F7:129:GLN:NE2	2.29	0.66
4:FI:358:GLN:NE2	4:FI:359:PRO:O	2.28	0.66
3:FL:211:CYS:HA	3:FL:215:LEU:HB2	1.77	0.66
11:Fj:385:LYS:NZ	11:Fj:427:LEU:HA	2.11	0.66
12:G:386:ARG:HH12	12:G:390:MET:HE3	1.59	0.66
3:GB:322:SER:OG	3:GB:324:LYS:NZ	2.29	0.66
15:H5:26:GLN:NE2	15:H5:45:ASP:HB3	2.10	0.66
4:IA:166:LYS:HD2	4:IA:198:SER:HA	1.77	0.66
3:IB:12:CYS:HA	39:IB:501:GTP:N2	2.11	0.66
4:IK:216:ASN:HB2	4:IK:276:ILE:HD12	1.76	0.66
3:IL:2:ARG:HA	3:IL:129:CYS:O	1.96	0.66
3:KD:323:MET:SD	3:KD:323:MET:N	2.69	0.66
22:L2:48:THR:N	3:MD:340:TYR:OH	2.21	0.66
22:L2:162:ASN:HD22	22:L2:166:LYS:HD3	1.61	0.66
3:MD:48:ASN:O	3:MD:62:ARG:NH2	2.24	0.66
4:MG:192:HIS:HA	4:MG:195:LEU:HD23	1.78	0.66
3:MJ:2:ARG:HA	3:MJ:129:CYS:O	1.95	0.66
4:MM:141:PHE:HD2	4:MM:173:PRO:HD3	1.61	0.66
3:NF:309:ARG:H	3:NF:372:THR:HG1	1.43	0.66
28:O3:84:ARG:HH21	28:O3:85:THR:HG23	1.60	0.66
4:PE:9:VAL:HG11	4:PE:150:ALA:HB2	1.78	0.66
4:QK:388:TRP:HB3	4:QK:425:LEU:HD11	1.77	0.66
31:R3:267:GLU:HG3	31:R3:271:ARG:HG3	1.77	0.66
4:RC:9:VAL:HG11	4:RC:150:ALA:HB2	1.77	0.66
3:SB:252:LYS:HB3	4:SC:100:ALA:HA	1.78	0.66
4:SI:208:ALA:H	4:SI:304:LYS:HZ1	1.44	0.66
4:SK:208:ALA:H	4:SK:304:LYS:HZ1	1.44	0.66
3:SL:385:PHE:HZ	3:SL:408:PHE:HB3	1.59	0.66
3:TB:173:PRO:O	3:TB:380:ARG:NH2	2.28	0.66
3:TH:252:LYS:O	3:TH:256:ASN:ND2	2.29	0.66
4:TI:358:GLN:NE2	4:TI:359:PRO:O	2.28	0.66
3:UD:170:VAL:N	3:UD:202:ILE:O	2.29	0.66
3:UJ:250:LEU:O	3:UJ:254:ALA:N	2.24	0.66
4:VC:244:PHE:HB2	4:VC:356:ASN:HD21	1.60	0.66
4:VE:205:ASP:OD2	4:VE:304:LYS:NZ	2.28	0.66
3:VH:372:THR:HG21	3:VH:426:GLN:HG3	1.77	0.66
37:YL:126:SER:OG	37:YL:129:GLU:OE2	2.13	0.66
37:YM:41:ARG:HH12	37:YM:45:SER:H	1.43	0.66
37:YT:33:ARG:NH2	37:YT:134:TYR:OH	2.29	0.66
2:A1:288:GLU:HB2	2:A2:31:ARG:HH22	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:162:ARG:HE	13:G1:166:LYS:HZ2	1.44	0.66
5:B3:321:ARG:HG3	5:B3:324:ARG:HE	1.61	0.66
5:B6:199:ILE:HB	5:B7:316:THR:HG21	1.77	0.66
5:B7:11:ARG:HB3	5:B8:130:ARG:HH12	1.61	0.66
4:BC:88:HIS:HB3	4:BC:91:GLN:HB2	1.78	0.66
6:C:146:THR:HG22	6:C:176:PRO:HA	1.77	0.66
3:CB:5:VAL:HG23	3:CB:130:LEU:HD11	1.78	0.66
3:CH:143:THR:HG22	3:CH:147:MET:HE2	1.77	0.66
8:D2:98:ASP:OD1	8:D3:376:ARG:NH2	2.25	0.66
4:DG:210:TYR:OH	4:DG:221:ARG:NH2	2.29	0.66
3:DJ:44:LEU:HD21	15:H6:289:ILE:HA	1.76	0.66
3:DL:374:ILE:HG23	3:DL:377:LEU:HD12	1.78	0.66
4:EC:46:ASP:OD1	4:EC:50:ASN:ND2	2.28	0.66
4:EC:210:TYR:OH	4:EC:221:ARG:NH2	2.29	0.66
11:F4:279:PHE:O	11:F8:442:GLN:NE2	2.28	0.66
4:FE:210:TYR:HE1	4:FE:227:LEU:HD11	1.60	0.66
11:Ff:87:PHE:HB2	11:Fg:206:LEU:HD13	1.78	0.66
14:G5:346:VAL:HB	14:G5:349:ARG:HB2	1.78	0.66
3:GB:83:GLN:O	3:GB:86:ARG:NH2	2.28	0.66
4:GK:154:MET:HE3	4:GK:194:THR:HG22	1.78	0.66
3:HB:357:PRO:O	3:HB:359:ARG:NH2	2.28	0.66
4:HG:25:CYS:HB2	4:HG:30:ILE:HB	1.77	0.66
3:HJ:322:SER:OG	3:HJ:324:LYS:NZ	2.28	0.66
3:IH:4:ILE:HD11	3:IH:131:GLN:HB2	1.77	0.66
4:II:87:PHE:HB3	4:II:92:LEU:HD21	1.76	0.66
3:JJ:246:LEU:HB2	3:JJ:352:ALA:HB1	1.76	0.66
3:JL:4:ILE:HD11	3:JL:131:GLN:HB2	1.77	0.66
4:KG:127:ASP:OD1	4:KG:128:LEU:N	2.29	0.66
3:KH:83:GLN:O	3:KH:86:ARG:NH2	2.28	0.66
3:KJ:48:ASN:O	3:KJ:62:ARG:NH2	2.29	0.66
22:L1:124:ILE:HG23	22:L1:135:ASP:HA	1.77	0.66
22:L2:105:PHE:CZ	3:LF:424:GLN:HB3	2.31	0.66
4:LC:54:SER:HB2	4:LC:62:VAL:HB	1.78	0.66
4:LK:207:GLU:HB2	4:LK:304:LYS:HZ1	1.61	0.66
23:M:116:SER:O	23:M:120:ALA:N	2.21	0.66
3:MF:269:GLY:HA2	3:MF:300:MET:HE1	1.76	0.66
4:MG:49:PHE:O	4:MG:53:PHE:N	2.29	0.66
3:MH:330:MET:HA	3:MH:333:VAL:HG12	1.77	0.66
25:N:66:GLN:OE1	25:N:66:GLN:N	2.27	0.66
4:NC:338:LYS:HZ2	4:NC:340:THR:H	1.42	0.66
29:P2:593:MET:O	29:P2:594:ARG:NH1	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PB:286:VAL:HG21	3:PB:325:GLU:HG3	1.77	0.66
4:PM:34:GLY:HA2	4:PM:86:LEU:HD21	1.77	0.66
3:QD:39:ASP:OD1	3:QD:43:GLN:NE2	2.28	0.66
4:QE:9:VAL:HG11	4:QE:150:ALA:HB2	1.77	0.66
4:QE:210:TYR:OH	4:QE:221:ARG:NH2	2.29	0.66
4:QE:358:GLN:NE2	4:QE:359:PRO:O	2.28	0.66
4:QK:265:ILE:HD12	4:QK:267:PHE:HD2	1.60	0.66
31:R3:119:ASN:HB3	31:R3:122:ALA:HB3	1.76	0.66
3:RH:258:VAL:HB	4:RI:407:TRP:HZ2	1.60	0.66
3:RH:309:ARG:H	3:RH:372:THR:HG1	1.41	0.66
4:RM:54:SER:HB2	4:RM:62:VAL:HB	1.75	0.66
3:SB:170:VAL:N	3:SB:202:ILE:O	2.27	0.66
4:SE:205:ASP:OD2	4:SE:304:LYS:NZ	2.25	0.66
3:SH:423:GLN:HA	3:SH:426:GLN:HE21	1.60	0.66
4:TE:371:VAL:HG11	4:TE:374:ALA:HB2	1.78	0.66
4:UA:54:SER:HB2	4:UA:62:VAL:HB	1.77	0.66
4:UE:427:ALA:HA	4:UE:430:LYS:HG2	1.78	0.66
4:UI:30:ILE:HA	4:UI:36:MET:HE1	1.76	0.66
3:UL:280:GLN:OE1	3:UL:280:GLN:N	2.29	0.66
3:VD:246:LEU:HB2	3:VD:352:ALA:HB1	1.78	0.66
3:VF:322:SER:OG	3:VF:324:LYS:NZ	2.29	0.66
4:VG:144:GLY:N	39:VG:501:GTP:O2B	2.28	0.66
4:VI:285:GLN:HE22	4:VI:287:SER:HB3	1.61	0.66
4:WA:264:ARG:O	4:WA:266:HIS:ND1	2.29	0.66
4:WE:9:VAL:HG11	4:WE:150:ALA:HB2	1.77	0.66
4:WK:108:TYR:O	4:WK:112:LYS:NZ	2.24	0.66
37:YH:114:ARG:NH2	37:YH:133:HIS:O	2.29	0.66
37:YV:57:CYS:O	37:YV:63:ARG:NH1	2.29	0.66
2:A2:231:GLN:HA	2:A2:234:ASN:HD22	1.61	0.66
3:AJ:194:GLU:OE1	3:AJ:195:ASN:ND2	2.29	0.66
3:AL:46:ARG:HH12	4:AM:73:THR:HG23	1.59	0.66
3:AL:271:ALA:HA	3:AL:293:MET:HE1	1.77	0.66
5:B6:7:LYS:HD2	5:B6:8:PRO:HD2	1.77	0.66
5:B7:36:HIS:O	5:B7:40:GLN:NE2	2.26	0.66
5:B8:200:SER:HA	5:B9:312:LYS:HZ2	1.60	0.66
4:BG:88:HIS:HB3	4:BG:91:GLN:HB3	1.76	0.66
6:C:167:GLU:OE1	6:C:167:GLU:N	2.23	0.66
6:C:261:CYS:N	6:C:329:ILE:O	2.29	0.66
7:C1:131:LYS:O	7:C1:135:ILE:HG12	1.96	0.66
7:C2:114:ARG:NH2	7:C3:371:GLU:OE2	2.28	0.66
4:CC:203:MET:N	4:CC:203:MET:SD	2.69	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CF:374:ILE:HA	3:CF:377:LEU:HD13	1.78	0.66
4:CK:286:LEU:HD11	4:CK:373:ARG:H	1.61	0.66
4:CM:224:TYR:HA	4:CM:227:LEU:HB2	1.78	0.66
4:DE:88:HIS:CE1	4:DE:121:ARG:HH22	2.13	0.66
4:DI:236:SER:O	4:DI:243:ARG:NH2	2.29	0.66
4:EG:68:VAL:HG12	4:EG:93:ILE:HB	1.78	0.66
11:F7:244:ARG:O	11:F7:244:ARG:NH1	2.29	0.66
4:FK:12:ALA:O	39:FK:501:GTP:N1	2.28	0.66
3:FL:12:CYS:HB3	39:FL:501:GTP:O4'	1.95	0.66
3:FL:217:LEU:O	13:G3:457:ARG:NH2	2.29	0.66
11:Fc:235:ARG:O	11:Fc:239:GLN:NE2	2.28	0.66
11:Fk:145:ARG:HH11	11:Fk:294:GLU:HB2	1.60	0.66
11:Fm:136:GLU:O	11:Fm:139:SER:OG	2.12	0.66
14:G5:740:ILE:HA	14:G5:744:GLY:HA3	1.78	0.66
4:GE:220:GLU:HG2	4:GE:221:ARG:HG2	1.78	0.66
4:GI:229:ARG:HE	4:GI:368:LEU:HD22	1.61	0.66
3:GJ:317:PHE:O	3:GJ:354:CYS:N	2.23	0.66
4:HG:220:GLU:HG2	4:HG:221:ARG:HG2	1.78	0.66
4:HK:285:GLN:HE22	4:HK:287:SER:HB3	1.59	0.66
4:HK:319:TYR:HE2	4:HK:328:VAL:HG13	1.59	0.66
3:IB:111:GLU:HG2	3:IB:112:LEU:HD12	1.78	0.66
3:ID:60:VAL:HG23	3:ID:86:ARG:HH11	1.61	0.66
4:IE:32:PRO:O	4:IE:85:GLN:NE2	2.28	0.66
4:IE:172:TYR:N	4:IE:204:VAL:O	2.24	0.66
3:IF:2:ARG:NH2	4:IG:96:LYS:O	2.28	0.66
3:IL:46:ARG:HH12	4:IM:73:THR:HG23	1.60	0.66
4:JE:144:GLY:N	39:JE:501:GTP:O2B	2.29	0.66
3:JF:132:GLY:HA2	3:JF:162:ARG:HB3	1.77	0.66
3:JJ:322:SER:OG	3:JJ:324:LYS:NZ	2.29	0.66
4:JK:46:ASP:OD1	4:JK:50:ASN:ND2	2.27	0.66
3:JL:132:GLY:HA3	3:JL:163:ILE:H	1.60	0.66
3:JL:374:ILE:HA	3:JL:377:LEU:HD13	1.76	0.66
3:JL:406:MET:HE1	3:NL:304:ASP:HB3	1.77	0.66
21:K1:351:THR:HA	21:K1:354:LEU:HD12	1.77	0.66
21:K2:216:ASP:HA	21:K2:219:ILE:HD12	1.78	0.66
4:KG:108:TYR:O	4:KG:112:LYS:NZ	2.28	0.66
3:KH:4:ILE:HD11	3:KH:131:GLN:HB2	1.78	0.66
22:L2:80:ARG:HG2	22:L2:81:CYS:H	1.61	0.66
3:LB:293:MET:HE3	3:LB:367:PHE:HB2	1.76	0.66
3:LB:392:LYS:HB2	3:LB:395:LEU:HD13	1.78	0.66
4:LG:101:ASN:HA	4:LG:144:GLY:HA2	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LH:406:MET:O	3:LH:409:THR:OG1	2.10	0.66
4:ME:88:HIS:CE1	4:ME:121:ARG:HH22	2.14	0.66
4:MM:224:TYR:HA	4:MM:227:LEU:HB2	1.78	0.66
4:NK:9:VAL:HA	4:NK:68:VAL:HG23	1.78	0.66
4:OA:1:MET:SD	4:OA:2:ARG:N	2.69	0.66
4:OG:9:VAL:HG11	4:OG:150:ALA:HB2	1.76	0.66
29:P3:360:HIS:HB2	29:P3:367:LEU:HD21	1.76	0.66
4:PG:1:MET:SD	4:PG:2:ARG:N	2.69	0.66
4:PK:346:TRP:O	3:PL:391:ARG:NH2	2.27	0.66
3:PL:211:CYS:HA	3:PL:215:LEU:HB2	1.78	0.66
3:RF:132:GLY:HA2	3:RF:162:ARG:HB3	1.78	0.66
3:RF:375:GLN:C	3:RF:379:LYS:HZ2	2.03	0.66
3:RJ:143:THR:HG22	3:RJ:147:MET:HE2	1.77	0.66
4:RM:84:ARG:NH2	37:YT:125:LEU:O	2.28	0.66
32:S:426:THR:HB	32:S:431:SER:HA	1.77	0.66
4:SE:172:TYR:HB2	4:SE:203:MET:HB3	1.78	0.66
3:SH:374:ILE:HA	3:SH:377:LEU:HD13	1.78	0.66
3:SJ:324:LYS:NZ	4:SK:222:PRO:O	2.17	0.66
3:SJ:372:THR:HB	3:SJ:375:GLN:HE22	1.61	0.66
4:SM:208:ALA:H	4:SM:304:LYS:HZ1	1.41	0.66
3:TJ:278:SER:HA	3:TJ:281:TYR:HB2	1.78	0.66
3:TL:222:TYR:HA	3:TL:225:LEU:HD13	1.78	0.66
3:UH:286:VAL:HG21	3:UH:325:GLU:HG3	1.77	0.66
4:VC:66:VAL:HA	4:VC:91:GLN:HE21	1.61	0.66
3:WB:135:LEU:HD21	3:WB:151:LEU:HD11	1.78	0.66
3:WL:67:ASP:OD2	3:WL:72:THR:OG1	2.14	0.66
34:XG:84:LYS:HG3	34:XG:84:LYS:O	1.95	0.66
35:XL:153:LEU:HD22	35:XL:212:THR:HG21	1.76	0.66
37:YA:114:ARG:HD3	37:YA:122:VAL:HG11	1.78	0.66
37:YJ:29:LEU:HB3	37:YJ:33:ARG:HH12	1.61	0.66
3:BJ:77:ARG:O	3:BJ:77:ARG:NH1	2.24	0.66
4:CC:224:TYR:HA	4:CC:227:LEU:HB2	1.77	0.66
3:CF:84:ILE:O	3:CF:86:ARG:NH1	2.29	0.66
4:CG:127:ASP:OD1	4:CG:128:LEU:N	2.29	0.66
4:CI:46:ASP:OD1	4:CI:50:ASN:ND2	2.28	0.66
4:CM:80:THR:HA	15:H6:215:ARG:HH22	1.61	0.66
7:Cb:260:ASP:OD1	7:Cb:261:LYS:N	2.29	0.66
8:D9:103:VAL:HG22	8:D9:106:ARG:HH12	1.60	0.66
4:DE:12:ALA:HB2	39:DE:501:GTP:H5"	1.78	0.66
4:DE:22:GLU:O	4:DE:26:LEU:HD23	1.96	0.66
4:EK:4:CYS:SG	4:EK:5:ILE:N	2.68	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:F3:425:ASP:OD1	11:F3:428:GLN:NE2	2.28	0.66
11:F8:385:LYS:HE3	11:F8:430:LEU:HD13	1.78	0.66
11:F9:195:LEU:HA	11:F9:215:LEU:HD13	1.78	0.66
11:F9:396:LEU:HA	11:F9:416:LEU:HD21	1.76	0.66
4:FE:358:GLN:NE2	4:FE:359:PRO:O	2.26	0.66
3:FH:309:ARG:H	3:FH:372:THR:HG1	1.42	0.66
4:FI:388:TRP:HB3	4:FI:425:LEU:HD11	1.77	0.66
4:FK:127:ASP:OD1	4:FK:128:LEU:N	2.29	0.66
11:Fc:174:LYS:HD2	11:Fc:175:ARG:HH22	1.60	0.66
12:G:397:ARG:HD2	4:GC:370:LYS:HD2	1.78	0.66
14:G4:259:THR:OG1	14:G4:282:GLY:O	2.14	0.66
4:GG:207:GLU:HB2	4:GG:304:LYS:HZ1	1.61	0.66
4:GG:271:THR:OG1	4:GG:301:GLN:OE1	2.13	0.66
3:HB:278:SER:HA	3:HB:281:TYR:HB2	1.78	0.66
4:HI:324:VAL:HG11	3:HJ:219:THR:HB	1.78	0.66
4:IC:127:ASP:OD1	4:IC:128:LEU:N	2.29	0.66
18:J:31:GLY:O	3:JF:276:ARG:NH2	2.28	0.66
4:JE:101:ASN:HA	4:JE:144:GLY:HA2	1.77	0.66
4:JE:273:ALA:HB2	4:JE:295:CYS:HB3	1.78	0.66
21:K4:148:ASN:HA	21:K4:151:LEU:HD12	1.78	0.66
3:KD:250:LEU:O	3:KD:254:ALA:N	2.26	0.66
3:KH:246:LEU:HB2	3:KH:352:ALA:HB1	1.77	0.66
4:LA:44:GLY:HA3	32:S:432:LEU:HD13	1.78	0.66
4:LC:11:GLN:HB2	4:LC:74:VAL:HG21	1.76	0.66
4:LI:192:HIS:HA	4:LI:195:LEU:HD23	1.76	0.66
4:LK:271:THR:HB	4:LK:377:MET:HB2	1.77	0.66
24:M3:67:ARG:NH1	24:M3:70:ASN:OD1	2.29	0.66
3:MH:250:LEU:O	3:MH:254:ALA:N	2.25	0.66
3:MH:410:GLU:HA	30:Q2:1417:ARG:HH12	1.60	0.66
39:MH:501:GTP:O3'	39:MH:501:GTP:O3G	2.13	0.66
3:ND:16:ILE:HD13	3:ND:226:ASN:HD22	1.61	0.66
4:OE:25:CYS:HB2	4:OE:30:ILE:HB	1.77	0.66
3:OH:249:ASP:HB3	3:OH:252:LYS:HB2	1.78	0.66
3:OL:375:GLN:HA	3:OL:378:PHE:CZ	2.31	0.66
4:PK:30:ILE:HA	4:PK:36:MET:HE1	1.77	0.66
4:PM:358:GLN:NE2	4:PM:359:PRO:O	2.29	0.66
4:QG:54:SER:HB2	4:QG:62:VAL:HB	1.78	0.66
4:QG:84:ARG:NH2	37:YI:123:ASN:O	2.28	0.66
3:RH:398:TYR:HB3	3:RH:403:MET:HB2	1.78	0.66
4:RI:388:TRP:HB3	4:RI:425:LEU:HD11	1.77	0.66
3:RJ:211:CYS:HA	3:RJ:215:LEU:HB2	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RJ:286:VAL:HG21	3:RJ:325:GLU:HG3	1.77	0.66
3:RL:42:LEU:HD12	3:RL:243:PRO:HD2	1.78	0.66
4:RM:6:SER:HA	4:RM:136:LEU:HB3	1.78	0.66
3:SB:372:THR:HG21	3:SB:426:GLN:HG3	1.78	0.66
4:SE:6:SER:HA	4:SE:136:LEU:HB2	1.77	0.66
3:SF:48:ASN:O	3:SF:62:ARG:NH2	2.27	0.66
3:SF:280:GLN:N	3:SF:280:GLN:OE1	2.29	0.66
4:SI:263:PRO:O	4:SI:264:ARG:HG2	1.95	0.66
4:SM:107:HIS:HA	4:SM:152:LEU:HD23	1.78	0.66
3:TB:372:THR:HB	3:TB:375:GLN:HE22	1.61	0.66
4:TC:205:ASP:OD2	4:TC:304:LYS:NZ	2.27	0.66
3:TH:52:ASN:OD1	3:TH:62:ARG:NH1	2.28	0.66
4:TM:32:PRO:O	4:TM:85:GLN:NE2	2.29	0.66
3:UD:372:THR:HB	3:UD:375:GLN:HE22	1.61	0.66
3:VB:2:ARG:HB3	3:VB:131:GLN:NE2	2.10	0.66
3:VB:213:ARG:NH1	3:VB:297:LYS:O	2.29	0.66
4:VK:371:VAL:HG11	4:VK:374:ALA:HB2	1.77	0.66
3:WB:412:GLU:OE1	3:WB:416:ASN:ND2	2.29	0.66
3:WF:302:ALA:HB1	3:WF:377:LEU:HD11	1.77	0.66
3:WF:412:GLU:OE1	3:WF:416:ASN:ND2	2.29	0.66
3:WJ:48:ASN:O	3:WJ:62:ARG:NH2	2.24	0.66
3:WJ:132:GLY:HA2	3:WJ:162:ARG:HB3	1.78	0.66
33:X:371:ARG:HH22	33:X:375:LEU:HD21	1.61	0.66
36:Y:223:GLU:OE2	36:Y:226:ARG:NH2	2.29	0.66
2:A1:95:LYS:NZ	2:A1:158:THR:OG1	2.29	0.65
2:A1:241:LEU:HD12	17:I1:48:TYR:CE2	2.31	0.65
2:A2:27:ALA:O	2:A2:31:ARG:HG3	1.96	0.65
3:AF:392:LYS:HB2	3:AF:395:LEU:HD13	1.78	0.65
5:B1:123:ARG:HB3	5:B1:128:VAL:HG22	1.78	0.65
5:B1:317:ARG:NH1	5:B2:189:CYS:O	2.30	0.65
5:B8:270:ARG:HH12	5:B8:274:SER:HB2	1.61	0.65
5:B8:272:MET:HB3	5:B8:380:LYS:HZ3	1.61	0.65
6:C:143:ARG:HG3	6:C:145:MET:HG2	1.76	0.65
7:C2:308:VAL:O	7:C2:311:SER:OG	2.13	0.65
3:CF:279:GLN:HB3	13:G1:307:ASN:HB2	1.77	0.65
4:CM:236:SER:O	4:CM:243:ARG:NH2	2.29	0.65
7:Cb:322:ARG:O	7:Cb:325:THR:OG1	2.10	0.65
7:Cc:403:ARG:HE	7:Cc:417:GLN:HE21	1.42	0.65
8:D4:214:ASN:OD1	8:D4:215:TRP:N	2.29	0.65
3:DL:211:CYS:HA	3:DL:215:LEU:HB2	1.76	0.65
3:ED:296:ALA:HA	3:ED:299:MET:HE3	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EG:396:ASP:OD1	4:EG:397:LEU:N	2.30	0.65
4:EG:427:ALA:HA	4:EG:430:LYS:HG2	1.78	0.65
4:EK:52:PHE:HZ	4:EK:239:THR:HB	1.61	0.65
3:EL:28:HIS:O	3:EL:43:GLN:NE2	2.30	0.65
4:FE:25:CYS:HB2	4:FE:30:ILE:HB	1.77	0.65
4:FG:273:ALA:HB2	4:FG:295:CYS:HB3	1.78	0.65
3:FH:32:PRO:O	3:FH:83:GLN:NE2	2.26	0.65
4:FK:152:LEU:HD23	4:FK:156:ARG:HH22	1.61	0.65
11:Fh:388:PRO:HA	11:Fh:391:MET:HE2	1.78	0.65
11:Fk:311:ARG:O	11:Fk:315:ILE:HG12	1.96	0.65
3:GB:12:CYS:SG	3:GB:13:GLY:N	2.69	0.65
3:GB:247:ASN:HB3	3:GB:252:LYS:HE2	1.78	0.65
4:GC:192:HIS:HA	4:GC:195:LEU:HD23	1.78	0.65
3:GF:316:VAL:HG22	3:GF:352:ALA:HB3	1.77	0.65
39:GF:501:GTP:O3G	39:GF:501:GTP:O3'	2.10	0.65
4:HA:265:ILE:HD12	4:HA:267:PHE:HD2	1.61	0.65
4:HE:127:ASP:OD1	4:HE:128:LEU:N	2.29	0.65
3:HF:250:LEU:O	3:HF:254:ALA:N	2.20	0.65
3:HJ:83:GLN:O	3:HJ:86:ARG:NH2	2.29	0.65
4:IC:9:VAL:HG11	4:IC:150:ALA:HB2	1.78	0.65
3:ID:216:LYS:O	3:ID:276:ARG:NH2	2.28	0.65
3:IH:286:VAL:HG21	3:IH:325:GLU:HG3	1.78	0.65
4:II:236:SER:O	4:II:243:ARG:NH2	2.28	0.65
3:IL:266:PHE:HD1	3:IL:370:ASN:HD21	1.42	0.65
4:JC:9:VAL:HG11	4:JC:150:ALA:HB2	1.78	0.65
3:JL:117:LEU:HD11	3:JL:154:LYS:HD2	1.78	0.65
21:K4:363:ARG:O	21:K4:366:LYS:HG2	1.96	0.65
3:KB:132:GLY:HA3	3:KB:163:ILE:H	1.61	0.65
4:LK:9:VAL:HG22	4:LK:146:GLY:HA2	1.76	0.65
3:MD:2:ARG:HA	3:MD:129:CYS:O	1.96	0.65
3:MF:19:LYS:NZ	3:MF:223:GLY:O	2.29	0.65
3:MH:132:GLY:HA2	3:MH:162:ARG:HB3	1.78	0.65
4:MM:273:ALA:HB2	4:MM:295:CYS:HB3	1.79	0.65
3:NB:412:GLU:OE1	3:NB:416:ASN:ND2	2.29	0.65
4:NG:396:ASP:OD1	4:NG:397:LEU:N	2.29	0.65
28:O1:76:PRO:HG2	28:O1:102:LEU:HD23	1.78	0.65
3:OD:33:THR:O	3:OD:58:LYS:NZ	2.27	0.65
3:OF:250:LEU:O	3:OF:254:ALA:N	2.25	0.65
3:OH:258:VAL:HG23	3:OH:263:LEU:HB2	1.76	0.65
29:P1:530:GLU:HB3	29:P1:537:ILE:HD11	1.78	0.65
4:PA:358:GLN:NE2	4:PA:359:PRO:O	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PB:278:SER:HA	3:PB:281:TYR:HB2	1.78	0.65
4:PM:185:TYR:OH	4:PM:403:ALA:O	2.09	0.65
3:QD:309:ARG:H	3:QD:372:THR:HG1	1.44	0.65
27:R:261:SER:HB2	27:R:269:VAL:HG21	1.77	0.65
3:RB:324:LYS:HG2	4:RC:221:ARG:NH2	2.11	0.65
3:RD:132:GLY:HA2	3:RD:162:ARG:HB3	1.76	0.65
4:RM:84:ARG:NE	37:YT:126:SER:O	2.26	0.65
3:TH:100:ASN:HB3	3:TH:103:LYS:HB2	1.78	0.65
4:TK:161:TYR:O	4:TK:166:LYS:NZ	2.23	0.65
4:TK:364:PRO:HG3	36:Z:320:ARG:HB2	1.77	0.65
3:TL:246:LEU:HB2	3:TL:352:ALA:HB1	1.77	0.65
4:UE:144:GLY:N	39:UE:501:GTP:O2B	2.29	0.65
4:UG:79:ARG:HH22	4:UG:94:THR:HB	1.59	0.65
4:UK:32:PRO:O	4:UK:85:GLN:NE2	2.29	0.65
3:VF:317:PHE:O	3:VF:354:CYS:N	2.24	0.65
4:VK:32:PRO:O	4:VK:85:GLN:NE2	2.29	0.65
4:WC:53:PHE:O	4:WC:64:ARG:NH1	2.28	0.65
4:WI:396:ASP:OD1	4:WI:397:LEU:N	2.29	0.65
4:WK:192:HIS:HA	4:WK:195:LEU:HD23	1.76	0.65
4:WK:244:PHE:HB2	4:WK:356:ASN:HD21	1.62	0.65
35:XJ:141:LEU:HB3	35:XJ:180:ILE:HD13	1.78	0.65
35:XL:130:ILE:HG13	35:XL:131:PRO:HD3	1.77	0.65
4:AC:12:ALA:HB1	39:AC:501:GTP:C2	2.31	0.65
3:AD:269:GLY:HA3	3:AD:367:PHE:HB3	1.77	0.65
3:AH:198:GLU:HA	3:AH:266:PHE:HE2	1.61	0.65
5:B6:176:HIS:HA	5:B6:179:LYS:HZ3	1.59	0.65
3:BH:412:GLU:OE1	3:BH:416:ASN:ND2	2.29	0.65
4:BI:88:HIS:HB3	4:BI:91:GLN:HB3	1.78	0.65
7:C2:377:MET:O	7:C2:380:GLU:HG2	1.96	0.65
4:CC:89:PRO:HD2	4:DA:280:LYS:HZ3	1.61	0.65
39:CF:501:GTP:O3G	39:CF:501:GTP:O3'	2.10	0.65
3:CL:170:VAL:N	3:CL:202:ILE:O	2.26	0.65
6:D:143:ARG:H	6:D:180:MET:HE1	1.61	0.65
8:D8:315:LEU:HD21	8:D8:419:LYS:HB3	1.78	0.65
8:D9:307:ARG:NH1	8:D9:310:GLU:OE1	2.29	0.65
3:DJ:324:LYS:HE3	4:DK:210:TYR:HE1	1.61	0.65
4:EE:127:ASP:OD1	4:EE:128:LEU:N	2.30	0.65
3:EH:28:HIS:HD2	3:EH:43:GLN:HB2	1.61	0.65
3:EL:392:LYS:HB3	3:EL:395:LEU:HD23	1.77	0.65
11:F3:101:LEU:HD11	11:Fl:436:GLU:OE2	1.97	0.65
4:FC:10:GLY:O	4:FC:14:VAL:HG13	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FF:322:SER:OG	3:FF:324:LYS:NZ	2.28	0.65
4:FK:6:SER:HA	4:FK:136:LEU:HB2	1.78	0.65
4:FK:262:TYR:OH	3:FL:391:ARG:O	2.14	0.65
11:Fa:254:ILE:HA	11:Fa:257:LYS:HE2	1.76	0.65
11:Fl:469:CYS:SG	11:Fl:473:ARG:NH1	2.69	0.65
14:G5:87:ASP:OD1	14:G5:100:ARG:NH1	2.29	0.65
4:GE:216:ASN:HB2	4:GE:276:ILE:HD12	1.77	0.65
4:GE:316:CYS:HB3	4:GE:378:LEU:HB2	1.77	0.65
3:GF:286:VAL:HG11	3:GF:325:GLU:HB2	1.78	0.65
4:GG:271:THR:HB	4:GG:377:MET:HB3	1.77	0.65
15:H5:307:ALA:HA	15:H5:310:LYS:HG2	1.77	0.65
3:HB:170:VAL:N	3:HB:202:ILE:O	2.28	0.65
3:HJ:12:CYS:SG	3:HJ:13:GLY:N	2.69	0.65
3:HL:376:GLU:HA	3:HL:379:LYS:HE3	1.78	0.65
17:I2:46:PHE:HA	17:I2:49:PHE:CD2	2.31	0.65
4:IC:21:TRP:HA	4:IC:24:TYR:HB2	1.77	0.65
3:IF:84:ILE:O	3:IF:86:ARG:NH1	2.29	0.65
4:IM:320:ARG:HH21	4:IM:358:GLN:HG3	1.60	0.65
4:JC:245:ASP:O	4:JC:356:ASN:ND2	2.29	0.65
4:JG:50:ASN:O	4:JG:64:ARG:NH1	2.29	0.65
21:K2:333:CYS:HB3	21:K2:464:ARG:HH12	1.60	0.65
21:K2:397:LEU:HD13	21:K3:126:VAL:HG21	1.77	0.65
4:KA:256:GLN:O	4:KA:260:VAL:HG12	1.96	0.65
4:KC:21:TRP:HA	4:KC:24:TYR:HB2	1.75	0.65
4:KE:115:VAL:HG21	4:KE:156:ARG:HD3	1.77	0.65
3:KJ:246:LEU:HB2	3:KJ:352:ALA:HB1	1.77	0.65
3:KJ:328:GLU:OE2	3:KJ:329:GLN:NE2	2.29	0.65
4:KK:216:ASN:ND2	4:KK:275:VAL:O	2.30	0.65
3:LB:3:GLU:HA	3:LB:49:VAL:HG23	1.77	0.65
3:LF:374:ILE:HA	3:LF:377:LEU:HD13	1.78	0.65
3:LJ:141:GLY:HA3	39:LJ:501:GTP:H5"	1.78	0.65
3:LJ:271:ALA:HA	3:LJ:293:MET:HE1	1.76	0.65
4:LK:159:VAL:HG11	28:O3:74:ILE:HG12	1.77	0.65
3:MD:328:GLU:OE1	3:MD:332:ASN:ND2	2.29	0.65
4:NG:205:ASP:OD2	4:NG:304:LYS:NZ	2.28	0.65
3:NH:170:VAL:N	3:NH:202:ILE:O	2.28	0.65
3:NL:4:ILE:HD11	3:NL:131:GLN:HB2	1.79	0.65
4:OG:54:SER:HB2	4:OG:62:VAL:HB	1.77	0.65
3:OH:385:PHE:HZ	3:OH:408:PHE:HB3	1.61	0.65
3:OL:286:VAL:HG21	3:OL:325:GLU:HG3	1.78	0.65
4:PG:91:GLN:HG3	4:PG:121:ARG:HH21	1.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:PM:34:GLY:HA3	4:PM:60:LYS:HD2	1.77	0.65
30:Q2:1358:ILE:O	30:Q2:1394:PHE:N	2.29	0.65
4:QE:49:PHE:O	4:QE:53:PHE:N	2.30	0.65
3:QL:357:PRO:HB3	3:QL:362:LYS:HA	1.79	0.65
3:RB:271:ALA:HB1	3:RB:272:PRO:HD2	1.77	0.65
4:RK:316:CYS:HB3	4:RK:378:LEU:HB2	1.78	0.65
3:RL:250:LEU:O	3:RL:254:ALA:N	2.28	0.65
3:TD:392:LYS:HB2	3:TD:395:LEU:HD13	1.78	0.65
3:TF:60:VAL:HG23	3:TF:86:ARG:HH11	1.62	0.65
3:TL:385:PHE:HA	3:TL:388:MET:HE2	1.76	0.65
3:VD:267:MET:HG3	3:VD:301:ALA:HB3	1.77	0.65
4:WI:128:LEU:HA	35:XL:106:PRO:HG3	1.77	0.65
34:XA:140:THR:HG1	34:XA:146:THR:HG1	1.43	0.65
34:XC:11:LEU:HB2	34:XC:167:PHE:HB2	1.78	0.65
34:XE:83:LEU:HD11	34:XE:161:ARG:HB2	1.78	0.65
34:XG:71:ILE:HG21	34:XG:167:PHE:HD2	1.59	0.65
36:Z:305:ARG:HH11	36:Z:306:MET:HE3	1.61	0.65
2:A1:328:LEU:HD21	2:A2:211:SER:HA	1.77	0.65
4:AC:49:PHE:O	4:AC:53:PHE:N	2.27	0.65
4:AG:127:ASP:OD1	4:AG:128:LEU:N	2.30	0.65
3:AL:48:ASN:O	3:AL:62:ARG:NH2	2.27	0.65
1:B:345:ARG:HA	1:B:348:ARG:HG2	1.77	0.65
5:B6:213:THR:OG1	5:B7:329:LEU:O	2.15	0.65
5:B8:324:ARG:HH21	5:B8:330:CYS:H	1.43	0.65
5:B9:298:ARG:HH12	7:C6:162:HIS:CG	2.14	0.65
4:BE:88:HIS:HB3	4:BE:91:GLN:HG3	1.79	0.65
6:C:63:ARG:NH2	3:ID:74:ASP:O	2.28	0.65
7:C6:93:ARG:N	8:D2:245:SER:HG	1.95	0.65
4:CC:396:ASP:OD1	4:CC:397:LEU:N	2.29	0.65
3:CD:141:GLY:HA3	39:CD:501:GTP:H5”	1.77	0.65
4:CE:49:PHE:CD2	4:CE:61:HIS:HE1	2.14	0.65
4:CG:101:ASN:HA	4:CG:144:GLY:HA2	1.78	0.65
7:Cd:289:ARG:HD3	7:Cd:290:VAL:HG13	1.78	0.65
6:D:146:THR:HG22	6:D:176:PRO:HA	1.77	0.65
4:DA:207:GLU:HB2	4:DA:304:LYS:HZ1	1.62	0.65
3:DJ:235:GLY:O	3:DJ:238:THR:OG1	2.13	0.65
4:EE:4:CYS:SG	4:EE:5:ILE:N	2.69	0.65
4:EE:25:CYS:HB2	4:EE:30:ILE:HB	1.77	0.65
3:EH:250:LEU:O	3:EH:254:ALA:N	2.25	0.65
11:F1:204:ILE:O	11:F2:90:TYR:OH	2.13	0.65
11:F6:122:ARG:HH12	11:F6:126:ASP:HB3	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FC:127:ASP:OD1	4:FC:128:LEU:N	2.30	0.65
3:FD:277:GLY:O	3:FD:280:GLN:NE2	2.29	0.65
4:FE:295:CYS:HB2	4:FE:377:MET:HG2	1.78	0.65
4:FG:396:ASP:OD1	4:FG:397:LEU:N	2.29	0.65
11:Fa:213:LYS:HB3	11:Fa:217:ARG:HH12	1.61	0.65
13:G1:27:ARG:NH1	4:LC:243:ARG:O	2.26	0.65
3:GF:374:ILE:HG23	3:GF:377:LEU:HD12	1.78	0.65
3:GL:269:GLY:HA2	3:GL:300:MET:HE1	1.78	0.65
15:H3:292:MET:HG3	15:H3:293:GLN:H	1.58	0.65
3:HL:7:LEU:HB2	3:HL:135:LEU:HG	1.78	0.65
3:IB:77:ARG:O	3:IB:77:ARG:NH1	2.28	0.65
4:IC:54:SER:HB2	4:IC:62:VAL:HB	1.78	0.65
4:IE:142:GLY:HA2	4:IE:183:GLU:CD	2.22	0.65
4:IK:7:ILE:N	4:IK:136:LEU:O	2.23	0.65
3:IL:26:ASP:O	3:IL:359:ARG:NH1	2.29	0.65
4:JI:127:ASP:OD1	4:JI:128:LEU:N	2.29	0.65
20:K:75:PRO:HG3	20:K:268:MET:HE3	1.78	0.65
21:K2:448:ASN:HD22	21:K2:451:LYS:HE3	1.61	0.65
21:K3:336:LEU:HA	21:K3:339:LYS:HE2	1.79	0.65
21:K3:464:ARG:NH1	21:K3:468:ARG:HD2	2.11	0.65
4:KE:12:ALA:HB1	39:KE:501:GTP:C2	2.31	0.65
20:L:125:ARG:NH1	20:L:246:GLU:OE2	2.23	0.65
22:L2:200:LEU:HD13	22:L2:241:ILE:HD11	1.78	0.65
22:L3:129:ARG:NH1	4:LK:92:LEU:O	2.26	0.65
4:LA:54:SER:HB2	4:LA:62:VAL:HB	1.76	0.65
4:LI:108:TYR:O	4:LI:112:LYS:NZ	2.21	0.65
4:ME:25:CYS:HB2	4:ME:30:ILE:HB	1.78	0.65
4:NA:205:ASP:OD2	4:NA:304:LYS:NZ	2.25	0.65
3:NL:33:THR:O	3:NL:58:LYS:NZ	2.29	0.65
28:O2:76:PRO:HG2	28:O2:102:LEU:HD23	1.78	0.65
3:PH:317:PHE:O	3:PH:354:CYS:N	2.28	0.65
4:PM:338:LYS:HZ2	4:PM:340:THR:H	1.41	0.65
3:QH:132:GLY:HA2	3:QH:162:ARG:HB3	1.78	0.65
4:QM:60:LYS:HG2	4:RM:283:HIS:HB2	1.77	0.65
3:RB:12:CYS:HA	3:RB:15:GLN:NE2	2.11	0.65
3:RD:46:ARG:HH22	4:RE:73:THR:HA	1.62	0.65
4:RE:236:SER:O	4:RE:243:ARG:NH2	2.28	0.65
3:SD:4:ILE:HD11	3:SD:131:GLN:HB2	1.79	0.65
3:TF:309:ARG:H	3:TF:372:THR:HG1	1.41	0.65
4:UA:9:VAL:HG11	4:UA:150:ALA:HB2	1.77	0.65
3:UB:286:VAL:HG21	3:UB:325:GLU:HG3	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:VC:216:ASN:HB2	4:VC:276:ILE:HD12	1.78	0.65
3:WB:263:LEU:HD12	3:WB:370:ASN:HD21	1.61	0.65
3:WL:170:VAL:N	3:WL:202:ILE:O	2.27	0.65
1:A:255:TRP:HH2	4:HC:364:PRO:HA	1.61	0.65
2:A4:33:GLN:HA	2:A4:36:ARG:HD2	1.77	0.65
4:AG:261:PRO:HA	3:AH:394:PHE:HE1	1.62	0.65
3:AL:375:GLN:HA	3:AL:378:PHE:CZ	2.31	0.65
3:BD:372:THR:HG21	3:BD:426:GLN:HG3	1.79	0.65
7:C7:260:ASP:OD1	7:C7:261:LYS:N	2.30	0.65
7:C9:305:ASP:OD2	10:E4:88:ARG:NH1	2.29	0.65
3:CB:84:ILE:O	3:CB:86:ARG:NH1	2.29	0.65
3:CD:215:LEU:HD23	3:CD:217:LEU:HG	1.79	0.65
3:CH:372:THR:HG21	3:CH:426:GLN:HG3	1.78	0.65
4:CI:188:ILE:HG12	4:CI:421:ALA:HB1	1.77	0.65
4:CK:84:ARG:NE	15:H5:212:LEU:HD12	2.11	0.65
8:D4:241:TYR:O	8:D5:354:GLN:NE2	2.29	0.65
8:D7:232:THR:HG22	8:D7:235:SER:HB3	1.79	0.65
8:D7:297:CYS:O	8:D7:301:ASN:ND2	2.29	0.65
3:DF:101:TRP:HB2	3:DF:184:ASN:HD22	1.62	0.65
3:DF:246:LEU:HB2	3:DF:352:ALA:HB1	1.76	0.65
3:DL:135:LEU:HD21	3:DL:151:LEU:HD11	1.77	0.65
10:E4:50:LYS:HG3	10:E4:63:TRP:CD1	2.32	0.65
3:EB:101:TRP:HB2	3:EB:184:ASN:HD22	1.62	0.65
11:F3:209:ASP:HB2	11:F3:346:ARG:HH21	1.62	0.65
11:F6:432:LEU:HD23	11:F6:435:ARG:HH21	1.61	0.65
4:FE:127:ASP:OD1	4:FE:128:LEU:N	2.29	0.65
3:FL:316:VAL:HG22	3:FL:352:ALA:HB3	1.79	0.65
12:G:41:GLN:HG3	12:G:45:HIS:HE1	1.60	0.65
4:GE:49:PHE:O	4:GE:53:PHE:N	2.26	0.65
3:GL:48:ASN:O	3:GL:62:ARG:NH2	2.25	0.65
3:GL:306:ARG:NE	3:GL:306:ARG:O	2.28	0.65
15:H4:224:PHE:HB2	15:H4:228:PHE:HZ	1.61	0.65
4:HC:234:ILE:HD11	4:HC:272:TYR:HB2	1.78	0.65
4:HC:395:PHE:HD2	4:HC:422:ARG:HH21	1.43	0.65
3:HH:385:PHE:HZ	3:HH:408:PHE:HB3	1.62	0.65
4:HK:208:ALA:H	4:HK:304:LYS:HZ1	1.43	0.65
3:IB:398:TYR:HB3	3:IB:403:MET:HB2	1.78	0.65
3:ID:385:PHE:HZ	3:ID:408:PHE:HB3	1.62	0.65
39:IF:501:GTP:O3G	39:IF:501:GTP:O3'	2.11	0.65
21:K2:164:ARG:NE	21:K2:318:GLU:OE2	2.27	0.65
4:KE:36:MET:HE3	4:KE:61:HIS:CE1	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KJ:7:LEU:HB2	3:KJ:135:LEU:HG	1.78	0.65
3:KJ:211:CYS:HA	3:KJ:215:LEU:HB2	1.76	0.65
24:M3:64:MET:HA	24:M3:67:ARG:HB2	1.78	0.65
3:MF:33:THR:O	3:MF:58:LYS:NZ	2.27	0.65
3:MF:170:VAL:N	3:MF:202:ILE:O	2.28	0.65
4:NG:161:TYR:O	4:NG:166:LYS:NZ	2.30	0.65
4:NI:161:TYR:O	4:NI:166:LYS:NZ	2.29	0.65
3:OB:178:THR:HB	3:OB:181:GLU:HB2	1.79	0.65
4:OK:5:ILE:HD13	4:OK:64:ARG:HB3	1.79	0.65
4:OK:144:GLY:N	39:OK:501:GTP:O2B	2.28	0.65
3:PB:247:ASN:HB3	3:PB:252:LYS:HG2	1.77	0.65
4:PC:34:GLY:HA2	4:PC:86:LEU:HD21	1.77	0.65
4:PG:25:CYS:HB2	4:PG:30:ILE:HB	1.78	0.65
4:PI:338:LYS:HZ2	4:PI:340:THR:H	1.45	0.65
3:PL:182:PRO:HB2	3:PL:388:MET:HE1	1.76	0.65
4:PM:208:ALA:H	4:PM:304:LYS:HZ1	1.42	0.65
30:Q1:1381:GLN:O	30:Q1:1385:LYS:N	2.26	0.65
30:Q2:1408:LYS:HZ3	30:Q2:1513:ALA:HA	1.62	0.65
4:QE:81:GLY:O	4:QE:84:ARG:NH1	2.29	0.65
4:QI:264:ARG:O	4:QI:266:HIS:ND1	2.30	0.65
4:QK:54:SER:HB2	4:QK:62:VAL:HB	1.77	0.65
4:RC:60:LYS:HD3	4:SC:283:HIS:HB2	1.79	0.65
3:SB:317:PHE:O	3:SB:354:CYS:N	2.30	0.65
3:SF:173:PRO:O	3:SF:380:ARG:NH2	2.29	0.65
4:TC:273:ALA:HB2	4:TC:295:CYS:HB3	1.79	0.65
3:TJ:48:ASN:O	3:TJ:62:ARG:NH2	2.26	0.65
4:TK:53:PHE:O	4:TK:64:ARG:NH1	2.29	0.65
3:TN:286:VAL:HG21	3:TN:325:GLU:HG3	1.78	0.65
3:UH:324:LYS:NZ	4:UI:222:PRO:O	2.19	0.65
4:VG:32:PRO:O	4:VG:85:GLN:NE2	2.29	0.65
4:VG:154:MET:HE3	4:VG:194:THR:HG22	1.77	0.65
3:VH:143:THR:HG22	3:VH:147:MET:HE2	1.78	0.65
3:VL:215:LEU:HD11	3:VL:228:LEU:HD11	1.78	0.65
4:WG:53:PHE:O	4:WG:64:ARG:NH1	2.29	0.65
4:WI:358:GLN:NE2	4:WI:359:PRO:O	2.29	0.65
4:WK:236:SER:O	4:WK:243:ARG:NH2	2.28	0.65
37:YA:9:ARG:NH2	37:YB:54:GLU:OE2	2.29	0.65
37:YC:120:GLU:O	37:YC:124:HIS:N	2.29	0.65
37:YF:114:ARG:NH2	37:YF:133:HIS:O	2.29	0.65
37:YM:90:THR:HG21	37:YM:154:HIS:HE1	1.59	0.65
2:A2:353:GLU:O	2:A2:357:GLN:NE2	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:175:LEU:O	2:A4:178:LYS:HG3	1.96	0.65
4:AK:1:MET:O	4:AK:133:GLN:NE2	2.29	0.65
5:B3:196:SER:HA	10:E2:147:LYS:HE3	1.79	0.65
5:B6:398:THR:O	5:B6:400:PRO:HD3	1.97	0.65
3:BL:322:SER:OG	3:BL:324:LYS:NZ	2.29	0.65
6:C:166:ASN:HA	6:C:169:ILE:HB	1.79	0.65
7:C4:389:LYS:HZ3	7:C4:434:LEU:HD13	1.62	0.65
7:C9:415:MET:HE2	7:C9:419:ARG:HE	1.62	0.65
4:CC:206:ASN:HA	4:CC:209:ILE:HD12	1.77	0.65
4:CE:127:ASP:OD1	4:CE:128:LEU:N	2.30	0.65
3:CL:8:GLN:NE2	3:CL:21:TRP:HE1	1.95	0.65
8:D7:340:LYS:HA	8:D7:343:ILE:HD12	1.76	0.65
4:DC:433:GLU:O	4:DC:437:VAL:N	2.28	0.65
3:DD:135:LEU:HD21	3:DD:151:LEU:HD11	1.77	0.65
3:DH:317:PHE:O	3:DH:354:CYS:N	2.26	0.65
3:ED:103:LYS:O	3:ED:108:GLU:N	2.29	0.65
11:F2:218:GLU:OE2	11:F2:339:THR:OG1	2.15	0.65
4:FA:370:LYS:HG2	14:G4:709:ALA:HB2	1.77	0.65
4:FC:272:TYR:HE1	4:FC:374:ALA:HB1	1.62	0.65
3:FH:326:VAL:HA	3:FH:329:GLN:HE22	1.59	0.65
11:Fa:213:LYS:HB3	11:Fa:217:ARG:NH1	2.12	0.65
11:Fk:439:ASP:O	11:Fk:442:GLN:NE2	2.30	0.65
4:GE:50:ASN:O	4:GE:64:ARG:NH1	2.29	0.65
3:GF:258:VAL:HB	4:GG:407:TRP:HZ2	1.62	0.65
3:GH:12:CYS:SG	3:GH:13:GLY:N	2.69	0.65
3:GH:33:THR:O	3:GH:58:LYS:NZ	2.30	0.65
4:GK:50:ASN:O	4:GK:64:ARG:NH1	2.30	0.65
4:GK:101:ASN:HA	4:GK:144:GLY:HA2	1.77	0.65
15:H3:298:LEU:HD23	15:H3:306:ARG:HG2	1.79	0.65
4:HK:46:ASP:OD1	4:HK:50:ASN:ND2	2.29	0.65
4:HK:205:ASP:OD2	4:HK:304:LYS:NZ	2.26	0.65
4:IA:1:MET:SD	4:IA:2:ARG:N	2.69	0.65
3:IB:380:ARG:O	3:IB:384:GLN:HG2	1.97	0.65
4:II:316:CYS:N	4:II:378:LEU:O	2.28	0.65
3:IJ:324:LYS:NZ	4:IK:222:PRO:O	2.24	0.65
4:IK:107:HIS:HA	4:IK:152:LEU:HD23	1.76	0.65
3:IL:292:GLN:O	3:IL:298:ASN:ND2	2.26	0.65
4:IM:213:CYS:O	4:IM:218:ASP:N	2.30	0.65
4:JA:12:ALA:HB1	39:JA:501:GTP:C2	2.32	0.65
3:KB:141:GLY:O	3:KB:145:SER:OG	2.09	0.65
22:L2:202:LYS:NZ	22:L2:206:GLU:OE2	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LL:317:PHE:HB3	3:LL:321:MET:HE3	1.78	0.65
3:MD:101:TRP:HB2	3:MD:184:ASN:HD22	1.60	0.65
3:OF:305:PRO:HB2	3:OF:310:TYR:HE1	1.61	0.65
29:P1:192:ARG:NH1	4:VC:38:SER:OG	2.28	0.65
3:PD:269:GLY:HA2	3:PD:300:MET:HE1	1.77	0.65
3:PL:39:ASP:OD1	3:PL:43:GLN:NE2	2.29	0.65
4:PM:54:SER:HB2	4:PM:62:VAL:HB	1.78	0.65
39:QD:502:GTP:O2B	4:QE:144:GLY:N	2.28	0.65
4:QI:358:GLN:NE2	4:QI:359:PRO:O	2.30	0.65
4:QK:1:MET:SD	4:QK:2:ARG:N	2.69	0.65
3:RB:249:ASP:O	3:RB:252:LYS:HB2	1.97	0.65
4:RC:161:TYR:O	4:RC:166:LYS:NZ	2.28	0.65
4:RI:46:ASP:OD1	4:RI:50:ASN:ND2	2.29	0.65
3:RJ:48:ASN:O	3:RJ:62:ARG:NH2	2.27	0.65
3:SF:131:GLN:HB3	3:SF:163:ILE:HD12	1.78	0.65
4:SI:338:LYS:HZ2	4:SI:340:THR:H	1.44	0.65
3:SJ:392:LYS:HB2	3:SJ:395:LEU:HD13	1.78	0.65
4:TC:54:SER:HB2	4:TC:62:VAL:HB	1.78	0.65
4:TC:400:ALA:O	4:TC:402:ARG:NH1	2.30	0.65
3:UH:173:PRO:O	3:UH:380:ARG:NH2	2.28	0.65
3:VD:12:CYS:SG	3:VD:13:GLY:N	2.69	0.65
3:VD:267:MET:O	3:VD:369:GLY:N	2.27	0.65
4:VE:206:ASN:HA	4:VE:209:ILE:HD12	1.79	0.65
4:VG:105:ARG:NH1	4:VG:109:THR:OG1	2.29	0.65
33:W:119:LEU:HB3	33:W:124:LEU:HD21	1.78	0.65
3:WB:211:CYS:HA	3:WB:215:LEU:HB2	1.77	0.65
3:WD:271:ALA:HA	3:WD:293:MET:HE1	1.79	0.65
3:WD:412:GLU:OE1	3:WD:416:ASN:ND2	2.30	0.65
3:WF:8:GLN:HB2	3:WF:65:LEU:HA	1.78	0.65
4:WG:50:ASN:O	4:WG:64:ARG:NH1	2.29	0.65
2:A1:294:LYS:HE2	7:C2:183:ARG:HD3	1.77	0.65
2:A3:129:HIS:O	2:A4:10:ARG:NH2	2.30	0.65
4:AC:1:MET:HG3	4:AC:2:ARG:H	1.61	0.65
4:BC:127:ASP:OD1	4:BC:128:LEU:N	2.30	0.65
3:BJ:60:VAL:HG23	3:BJ:86:ARG:HH11	1.62	0.65
3:BL:247:ASN:HB3	3:BL:252:LYS:HG2	1.77	0.65
3:CB:7:LEU:HB2	3:CB:135:LEU:HG	1.79	0.65
3:CF:322:SER:N	3:CF:325:GLU:OE2	2.29	0.65
8:D2:130:LEU:O	8:D2:134:GLN:NE2	2.29	0.65
4:DK:188:ILE:HG12	4:DK:421:ALA:HB1	1.78	0.65
10:E1:147:LYS:HD3	10:E1:148:GLU:N	2.12	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EE:245:ASP:O	4:EE:356:ASN:ND2	2.29	0.65
4:EG:107:HIS:HA	4:EG:152:LEU:HD23	1.78	0.65
3:EH:262:ARG:HD2	3:EH:421:GLU:HG3	1.78	0.65
11:F3:125:GLN:O	11:F3:129:GLN:NE2	2.29	0.65
11:F5:344:ASN:ND2	11:F9:344:ASN:OD1	2.25	0.65
11:F8:344:ASN:OD1	11:Fc:344:ASN:ND2	2.29	0.65
4:FA:192:HIS:HA	4:FA:195:LEU:HD23	1.77	0.65
4:FE:108:TYR:O	4:FE:112:LYS:NZ	2.22	0.65
4:FG:54:SER:HB2	4:FG:62:VAL:HB	1.78	0.65
4:FG:127:ASP:OD1	4:FG:128:LEU:N	2.30	0.65
11:Ff:121:LEU:HA	11:Ff:124:MET:HE3	1.79	0.65
11:Fj:473:ARG:NH1	11:Fj:476:PHE:O	2.30	0.65
13:G1:474:LYS:HB2	13:G1:485:TYR:H	1.60	0.65
3:GH:152:ILE:HD12	3:GH:155:ILE:HD11	1.77	0.65
4:GI:221:ARG:NH1	4:GI:222:PRO:O	2.29	0.65
4:GK:220:GLU:HG2	4:GK:221:ARG:HG2	1.79	0.65
15:H3:246:ASP:HA	15:H3:249:LYS:HB2	1.78	0.65
15:H5:13:GLU:HG3	15:H5:14:PRO:HA	1.78	0.65
4:HA:54:SER:HB2	4:HA:62:VAL:HB	1.79	0.65
3:ID:48:ASN:O	3:ID:62:ARG:NH2	2.29	0.65
3:IH:39:ASP:OD1	3:IH:43:GLN:NE2	2.29	0.65
4:JA:50:ASN:O	4:JA:64:ARG:NH1	2.30	0.65
4:JA:54:SER:HB2	4:JA:62:VAL:HB	1.77	0.65
3:JF:77:ARG:O	3:JF:77:ARG:NH1	2.28	0.65
21:K2:31:LYS:HA	21:K2:34:LEU:HB2	1.77	0.65
3:KD:107:THR:OG1	3:KD:401:GLU:OE2	2.12	0.65
3:LD:328:GLU:O	3:LD:332:ASN:N	2.26	0.65
4:LG:25:CYS:HB2	4:LG:30:ILE:HB	1.77	0.65
3:LJ:84:ILE:O	3:LJ:86:ARG:NH1	2.29	0.65
3:LJ:375:GLN:HE21	3:LJ:422:TYR:HB3	1.62	0.65
4:MI:125:LEU:HD13	4:MI:128:LEU:HD21	1.79	0.65
3:NB:324:LYS:NZ	4:NC:222:PRO:O	2.26	0.65
4:NE:208:ALA:H	4:NE:304:LYS:HZ1	1.44	0.65
3:NJ:357:PRO:HB3	3:NJ:362:LYS:HA	1.78	0.65
4:OC:25:CYS:HB2	4:OC:30:ILE:HB	1.76	0.65
3:OH:278:SER:HA	3:OH:281:TYR:HB2	1.78	0.65
29:P2:546:GLY:HA3	29:P2:565:HIS:HB2	1.77	0.65
4:QE:271:THR:HB	4:QE:377:MET:HB3	1.78	0.65
4:QG:205:ASP:OD2	4:QG:304:LYS:NZ	2.28	0.65
3:RB:77:ARG:O	3:RB:77:ARG:NH1	2.28	0.65
4:RI:192:HIS:HA	4:RI:195:LEU:HD23	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:RK:224:TYR:HE2	39:RK:501:GTP:O6	1.80	0.65
3:SB:117:LEU:HD11	3:SB:154:LYS:HD2	1.78	0.65
3:SJ:280:GLN:OE1	3:SJ:280:GLN:N	2.29	0.65
4:TE:372:GLN:HG3	36:Y:157:ARG:HD2	1.78	0.65
3:TH:357:PRO:HB3	3:TH:362:LYS:HA	1.79	0.65
3:TL:15:GLN:NE2	39:TL:501:GTP:N1	2.44	0.65
3:UB:392:LYS:HB2	3:UB:395:LEU:HD13	1.78	0.65
4:UC:244:PHE:HB2	4:UC:356:ASN:HD21	1.62	0.65
4:UE:108:TYR:O	4:UE:112:LYS:NZ	2.24	0.65
4:UG:207:GLU:HB2	4:UG:304:LYS:HZ1	1.61	0.65
3:VB:48:ASN:O	3:VB:62:ARG:NH2	2.30	0.65
4:VG:46:ASP:OD1	4:VG:50:ASN:ND2	2.29	0.65
4:VG:105:ARG:HH12	4:VG:110:ILE:HG12	1.61	0.65
3:VJ:412:GLU:OE1	3:VJ:416:ASN:ND2	2.30	0.65
4:WI:30:ILE:HA	4:WI:36:MET:HE1	1.76	0.65
37:YB:161:LYS:HG3	37:YB:162:VAL:HG23	1.78	0.65
37:YG:120:GLU:O	37:YG:124:HIS:N	2.28	0.65
37:YR:61:THR:HG22	37:YR:64:ARG:HH21	1.62	0.65
37:YR:75:GLU:HA	37:YR:78:LYS:HG2	1.79	0.65
37:YW:82:HIS:CE1	37:YW:86:LEU:HD11	2.31	0.65
36:Z:289:GLU:OE1	36:Z:292:ARG:NH1	2.29	0.65
36:Z:305:ARG:HA	36:Z:308:LYS:HG3	1.78	0.65
3:AD:48:ASN:O	3:AD:62:ARG:NH2	2.30	0.65
4:AE:127:ASP:OD1	4:AE:128:LEU:N	2.30	0.65
3:AJ:5:VAL:HG23	3:AJ:130:LEU:HD21	1.78	0.65
5:B2:223:ARG:O	5:B2:227:ASN:ND2	2.30	0.65
7:C9:222:GLU:OE2	7:C9:339:GLN:HG3	1.97	0.65
7:Cc:403:ARG:O	7:Cc:406:ARG:NE	2.28	0.65
8:D3:63:ARG:HH22	8:D4:412:LEU:HA	1.61	0.65
8:D3:174:VAL:HA	8:D3:177:LEU:HD12	1.78	0.65
8:D6:373:ALA:HA	8:D6:376:ARG:HE	1.61	0.65
3:DD:249:ASP:HB3	3:DD:252:LYS:HG2	1.79	0.65
4:DE:88:HIS:HA	4:EE:283:HIS:HE1	1.59	0.65
4:DG:67:PHE:HB2	4:DG:92:LEU:HD13	1.79	0.65
4:DI:46:ASP:OD1	4:DI:50:ASN:ND2	2.29	0.65
4:EE:396:ASP:OD1	4:EE:397:LEU:N	2.30	0.65
4:EK:46:ASP:OD1	4:EK:50:ASN:ND2	2.30	0.65
4:FA:208:ALA:H	4:FA:304:LYS:HZ1	1.44	0.65
3:FB:84:ILE:O	3:FB:86:ARG:NH1	2.30	0.65
3:FF:83:GLN:O	3:FF:86:ARG:NH2	2.30	0.65
11:Fa:292:ILE:HG22	11:Fa:295:THR:HG23	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G6:79:LEU:HD12	14:G6:174:THR:HG22	1.78	0.65
3:GH:345:ILE:HD11	4:GI:181:VAL:HG11	1.79	0.65
4:GI:12:ALA:HB1	39:GI:501:GTP:C2	2.32	0.65
3:GJ:216:LYS:O	3:GJ:276:ARG:NH2	2.30	0.65
4:HA:30:ILE:HG13	4:HA:53:PHE:HE2	1.60	0.65
3:HD:107:THR:OG1	3:HD:401:GLU:OE2	2.14	0.65
4:HE:30:ILE:HA	4:HE:36:MET:HE1	1.78	0.65
4:HG:88:HIS:CE1	4:HG:121:ARG:HH22	2.14	0.65
3:HJ:286:VAL:HG21	3:HJ:325:GLU:HG3	1.79	0.65
4:HK:156:ARG:HA	4:HK:159:VAL:HG22	1.78	0.65
17:I2:49:PHE:HB2	17:I2:53:ARG:HH21	1.61	0.65
3:IB:84:ILE:O	3:IB:86:ARG:NH1	2.29	0.65
3:IB:325:GLU:O	3:IB:329:GLN:NE2	2.30	0.65
4:IE:70:LEU:HD13	4:IE:95:GLY:HA3	1.78	0.65
4:IE:154:MET:HE1	4:IE:197:HIS:HB2	1.79	0.65
4:IK:220:GLU:O	4:IK:221:ARG:NE	2.26	0.65
19:J3:105:CYS:HB3	19:J3:112:SER:HB3	1.79	0.65
3:KD:362:LYS:HG3	3:KD:363:MET:HG3	1.79	0.65
3:KF:11:GLN:HE21	39:KF:501:GTP:H3'	1.61	0.65
4:KG:30:ILE:HA	4:KG:36:MET:HE1	1.79	0.65
4:KI:192:HIS:HA	4:KI:195:LEU:HD23	1.77	0.65
3:KL:268:PRO:HD2	3:KL:301:ALA:HB2	1.79	0.65
22:L3:76:LYS:NZ	4:LI:414:GLU:O	2.28	0.65
4:LC:269:LEU:N	4:LC:379:SER:O	2.27	0.65
3:LF:117:LEU:HD11	3:LF:154:LYS:HD2	1.78	0.65
3:MB:39:ASP:OD1	3:MB:43:GLN:NE2	2.29	0.65
3:MD:132:GLY:HA2	3:MD:162:ARG:HB3	1.77	0.65
3:MJ:8:GLN:HE21	3:MJ:14:ASN:HA	1.62	0.65
3:NH:178:THR:HB	3:NH:181:GLU:HG3	1.77	0.65
3:NL:70:PRO:HA	3:NL:73:MET:HE3	1.79	0.65
4:OA:53:PHE:O	4:OA:64:ARG:NH1	2.29	0.65
3:OD:132:GLY:HA2	3:OD:162:ARG:HB3	1.79	0.65
4:OG:50:ASN:O	4:OG:64:ARG:NH1	2.29	0.65
4:OK:54:SER:HB2	4:OK:62:VAL:HB	1.77	0.65
4:PA:12:ALA:HB2	39:PA:501:GTP:H5"	1.79	0.65
30:Q3:1455:ARG:O	30:Q3:1459:LYS:NZ	2.30	0.65
4:QG:244:PHE:HB2	4:QG:356:ASN:HD21	1.61	0.65
3:QJ:392:LYS:HB2	3:QJ:395:LEU:HD13	1.78	0.65
4:QM:234:ILE:HD11	4:QM:272:TYR:HB2	1.76	0.65
31:R3:117:THR:O	31:R3:149:ILE:HD12	1.97	0.65
3:RD:60:VAL:HG23	3:RD:86:ARG:HH11	1.59	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:TC:220:GLU:HG2	4:TC:221:ARG:HG2	1.79	0.65
4:TM:127:ASP:OD1	4:TM:128:LEU:N	2.30	0.65
4:TM:205:ASP:OD2	4:TM:304:LYS:NZ	2.24	0.65
3:UB:289:LEU:O	3:UB:293:MET:N	2.26	0.65
4:UC:172:TYR:HB2	4:UC:203:MET:HB2	1.78	0.65
4:VC:12:ALA:HB1	39:VC:501:GTP:C2	2.31	0.65
4:VE:54:SER:HB2	4:VE:62:VAL:HB	1.79	0.65
4:VK:127:ASP:OD1	4:VK:128:LEU:N	2.30	0.65
4:WG:54:SER:HB2	4:WG:62:VAL:HB	1.79	0.65
4:WG:130:THR:HB	35:XK:74:LYS:HA	1.79	0.65
37:YB:45:SER:OG	37:YB:47:GLU:OE1	2.15	0.65
37:YD:22:GLN:HG3	37:YD:121:VAL:HG13	1.78	0.65
37:YI:57:CYS:O	37:YI:63:ARG:NH1	2.30	0.65
37:YK:141:ILE:O	37:YK:145:LEU:N	2.28	0.65
3:AD:132:GLY:HA2	3:AD:162:ARG:HB3	1.79	0.65
4:AG:286:LEU:O	4:AG:373:ARG:NH2	2.30	0.65
4:AI:262:TYR:OH	3:AJ:391:ARG:O	2.15	0.65
5:B3:210:LYS:O	27:P:229:ARG:NH2	2.30	0.65
5:B3:368:LYS:HB3	5:B3:372:ARG:NH1	2.12	0.65
3:CD:289:LEU:HD21	3:CD:363:MET:HB3	1.79	0.65
4:CG:118:VAL:HA	4:CG:121:ARG:HG2	1.79	0.65
8:D2:137:ARG:HD2	8:D2:447:GLN:HA	1.77	0.65
4:DA:203:MET:HE1	4:DA:267:PHE:HB3	1.78	0.65
3:DD:372:THR:HG21	3:DD:426:GLN:HG3	1.79	0.65
3:DD:374:ILE:HA	3:DD:377:LEU:HD13	1.78	0.65
4:DG:316:CYS:HB3	4:DG:378:LEU:HB2	1.77	0.65
10:E1:142:ARG:NH1	10:E1:143:GLN:O	2.30	0.65
4:EE:252:LEU:HA	4:EE:255:PHE:CD2	2.31	0.65
4:EI:216:ASN:HB2	4:EI:276:ILE:HD12	1.78	0.65
11:F4:225:CYS:O	11:F4:228:GLN:NE2	2.30	0.65
3:FJ:163:ILE:HD11	3:FJ:251:ARG:HG3	1.78	0.65
11:Fm:439:ASP:O	11:Fm:442:GLN:NE2	2.28	0.65
13:G1:170:ARG:HG3	13:G1:201:LEU:HD22	1.79	0.65
14:G4:172:PRO:HA	14:G4:175:LYS:HD2	1.79	0.65
14:G4:202:GLU:O	14:G4:206:PHE:N	2.29	0.65
3:GB:384:GLN:O	3:GB:388:MET:HG2	1.97	0.65
4:GE:225:THR:HG22	23:M:94:TYR:HE1	1.62	0.65
3:GF:84:ILE:O	3:GF:86:ARG:NH1	2.30	0.65
4:IA:261:PRO:HA	3:IB:394:PHE:CE1	2.32	0.65
4:IC:362:VAL:HA	4:IC:368:LEU:HD11	1.77	0.65
3:IF:324:LYS:NZ	4:IG:222:PRO:O	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:IG:1:MET:SD	4:IG:2:ARG:N	2.70	0.65
4:IG:75:VAL:HG23	4:IG:92:LEU:HD12	1.78	0.65
4:IG:216:ASN:HB2	4:IG:276:ILE:HD12	1.77	0.65
4:II:12:ALA:HB2	39:II:501:GTP:H5"	1.79	0.65
4:II:54:SER:HB2	4:II:62:VAL:HB	1.76	0.65
4:JA:25:CYS:HB2	4:JA:30:ILE:HB	1.78	0.65
4:JK:109:THR:O	4:JK:112:LYS:NZ	2.30	0.65
21:K3:198:LEU:HD13	21:K3:332:VAL:HG22	1.78	0.65
4:KC:207:GLU:HB2	4:KC:304:LYS:HZ1	1.61	0.65
3:KH:374:ILE:HG23	3:KH:377:LEU:HD12	1.78	0.65
22:L2:34:THR:O	22:L2:38:ASP:N	2.29	0.65
23:M:61:ILE:HD11	23:M:65:LEU:HD22	1.77	0.65
3:MB:52:ASN:OD1	3:MB:62:ARG:NH1	2.30	0.65
3:MB:360:GLY:HA3	27:P:367:ASP:H	1.59	0.65
4:MC:125:LEU:HD13	4:MC:128:LEU:HD21	1.79	0.65
3:MD:60:VAL:HG23	3:MD:86:ARG:HH11	1.62	0.65
3:MD:280:GLN:HE21	27:P:314:ILE:HD13	1.61	0.65
4:MG:46:ASP:HA	4:MG:50:ASN:HB3	1.79	0.65
4:NG:207:GLU:HB2	4:NG:304:LYS:HZ1	1.62	0.65
3:NJ:323:MET:HE3	4:NK:224:TYR:CE1	2.29	0.65
4:OE:84:ARG:NH2	37:YH:124:HIS:HA	2.09	0.65
4:OG:108:TYR:O	4:OG:112:LYS:NZ	2.27	0.65
29:P1:299:ARG:NH1	29:P1:304:GLN:OE1	2.30	0.65
4:PE:125:LEU:HD13	4:PE:128:LEU:HD21	1.79	0.65
4:PG:205:ASP:OD2	4:PG:304:LYS:NZ	2.29	0.65
4:PI:271:THR:HB	4:PI:377:MET:HB3	1.78	0.65
3:PL:135:LEU:HD21	3:PL:151:LEU:HD11	1.78	0.65
27:Q:95:ASN:OD1	27:Q:98:GLN:NE2	2.29	0.65
27:Q:100:ASN:O	27:Q:104:PRO:HD3	1.96	0.65
4:QE:30:ILE:HA	4:QE:36:MET:HE1	1.77	0.65
31:R3:260:ALA:O	31:R3:264:HIS:ND1	2.29	0.65
3:RB:309:ARG:H	3:RB:372:THR:HG1	1.41	0.65
3:TF:117:LEU:HD11	3:TF:154:LYS:HD2	1.79	0.65
4:TK:254:GLU:O	4:TK:258:ASN:ND2	2.22	0.65
3:TN:170:VAL:N	3:TN:202:ILE:O	2.30	0.65
4:UA:204:VAL:HG23	4:UA:302:MET:HG3	1.78	0.65
4:UA:234:ILE:HD11	4:UA:272:TYR:HB2	1.79	0.65
3:UH:385:PHE:HA	3:UH:388:MET:HE2	1.79	0.65
3:UJ:46:ARG:NE	3:UJ:241:ARG:O	2.29	0.65
3:UL:372:THR:HB	3:UL:375:GLN:HE22	1.62	0.65
3:VB:252:LYS:HD2	4:VC:100:ALA:HA	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VF:72:THR:O	3:VF:75:SER:OG	2.13	0.65
3:VH:83:GLN:O	3:VH:86:ARG:NH2	2.30	0.65
3:VJ:372:THR:HG21	3:VJ:426:GLN:HG3	1.79	0.65
4:WA:127:ASP:OD1	4:WA:128:LEU:N	2.30	0.65
4:WE:234:ILE:HD11	4:WE:272:TYR:HB2	1.79	0.65
37:YD:82:HIS:CE1	37:YD:86:LEU:HD11	2.31	0.65
2:A4:31:ARG:HG3	5:B2:55:TRP:CZ3	2.31	0.65
4:AC:49:PHE:HB2	4:AC:53:PHE:HB2	1.78	0.65
3:AD:302:ALA:HB1	3:AD:377:LEU:HD21	1.77	0.65
4:AK:46:ASP:OD1	4:AK:50:ASN:ND2	2.30	0.65
5:B3:204:ASN:HB3	5:B3:207:ARG:HH21	1.62	0.65
4:BC:30:ILE:HA	4:BC:36:MET:HE1	1.79	0.65
4:BG:88:HIS:CE1	4:BG:121:ARG:HH22	2.14	0.65
4:BI:205:ASP:OD2	4:BI:304:LYS:NZ	2.29	0.65
3:BL:170:VAL:N	3:BL:202:ILE:O	2.27	0.65
7:C5:388:GLU:OE1	7:C5:388:GLU:N	2.30	0.65
4:CE:88:HIS:HB3	4:CE:91:GLN:HG3	1.78	0.65
4:DC:388:TRP:HB3	4:DC:425:LEU:HD11	1.79	0.65
4:DK:419:SER:HA	4:DK:422:ARG:HE	1.62	0.65
4:EI:346:TRP:HD1	3:EJ:390:ARG:HH22	1.45	0.65
3:FB:309:ARG:HE	3:FB:426:GLN:HE21	1.43	0.65
3:FD:317:PHE:O	3:FD:354:CYS:N	2.28	0.65
4:FG:216:ASN:HB2	4:FG:276:ILE:HD12	1.78	0.65
3:FH:170:VAL:N	3:FH:202:ILE:O	2.25	0.65
3:FJ:84:ILE:O	3:FJ:86:ARG:NH1	2.30	0.65
14:G5:328:VAL:HG13	14:G5:330:GLN:HE22	1.61	0.65
4:GA:229:ARG:HE	4:GA:368:LEU:HD22	1.61	0.65
4:GE:210:TYR:OH	4:GE:221:ARG:NH2	2.30	0.65
4:GE:338:LYS:HZ2	4:GE:340:THR:H	1.43	0.65
4:GG:301:GLN:HG3	4:GG:303:VAL:H	1.61	0.65
3:GL:141:GLY:HA3	39:GL:501:GTP:H5"	1.77	0.65
4:HA:30:ILE:HA	4:HA:36:MET:HE1	1.79	0.65
3:IJ:60:VAL:HG23	3:IJ:86:ARG:HH11	1.61	0.65
3:IL:88:ASP:HB2	4:JK:280:LYS:HZ3	1.62	0.65
4:IM:11:GLN:N	4:IM:69:ASP:OD1	2.30	0.65
4:JE:205:ASP:OD2	4:JE:304:LYS:NZ	2.25	0.65
3:JH:322:SER:N	3:JH:325:GLU:OE2	2.30	0.65
21:K2:383:LEU:HD11	21:K2:385:ARG:HH21	1.62	0.65
21:K4:174:ILE:HD11	21:K4:464:ARG:HA	1.77	0.65
4:KA:127:ASP:OD1	4:KA:128:LEU:N	2.30	0.65
3:LB:323:MET:SD	3:LB:324:LYS:NZ	2.64	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MD:52:ASN:OD1	3:MD:62:ARG:NH1	2.30	0.65
4:MK:262:TYR:OH	3:ML:391:ARG:O	2.15	0.65
4:NA:161:TYR:O	4:NA:166:LYS:NZ	2.29	0.65
4:NK:9:VAL:HG11	4:NK:150:ALA:HB2	1.78	0.65
3:OJ:385:PHE:HA	3:OJ:388:MET:HE2	1.79	0.65
27:P:262:SER:OG	27:P:267:ARG:O	2.15	0.65
29:P1:94:ILE:HG12	29:P1:106:ARG:HG3	1.79	0.65
4:QC:389:ALA:O	4:QC:393:HIS:ND1	2.28	0.65
3:QF:252:LYS:HD2	4:QG:100:ALA:HA	1.78	0.65
4:QK:396:ASP:OD1	4:QK:397:LEU:N	2.30	0.65
3:QL:316:VAL:HG22	3:QL:352:ALA:HB3	1.79	0.65
4:QM:33:ASP:O	4:QM:60:LYS:NZ	2.29	0.65
3:RF:135:LEU:HD21	3:RF:151:LEU:HD11	1.78	0.65
4:RK:84:ARG:HE	37:YP:131:ARG:HH21	1.45	0.65
3:SF:111:GLU:HG2	3:SF:112:LEU:HD12	1.79	0.65
4:SM:234:ILE:HD11	4:SM:272:TYR:HB2	1.78	0.65
3:TF:317:PHE:O	3:TF:354:CYS:N	2.25	0.65
3:TJ:216:LYS:O	3:TJ:276:ARG:NH2	2.29	0.65
4:UA:50:ASN:O	4:UA:64:ARG:NH1	2.29	0.65
3:UB:39:ASP:OD1	3:UB:43:GLN:NE2	2.29	0.65
3:UJ:118:ASP:OD1	3:UJ:121:ARG:NH1	2.30	0.65
4:VG:53:PHE:O	4:VG:64:ARG:NH1	2.30	0.65
3:WJ:328:GLU:OE2	3:WJ:329:GLN:NE2	2.29	0.65
37:YD:115:ALA:HB2	37:YD:143:ILE:HD11	1.79	0.65
5:B1:142:GLU:HA	5:B1:145:GLU:HG2	1.79	0.65
5:B6:96:LYS:NZ	5:B6:155:ILE:O	2.29	0.65
3:BB:317:PHE:HB3	3:BB:321:MET:HE3	1.79	0.65
4:BK:396:ASP:OD1	4:BK:397:LEU:N	2.30	0.65
7:C3:442:GLU:HA	7:C3:445:LEU:HD12	1.77	0.65
3:CD:293:MET:HE3	3:CD:367:PHE:HB2	1.79	0.65
3:CH:269:GLY:HA2	3:CH:300:MET:HE1	1.78	0.65
8:D4:249:GLU:OE1	8:D5:370:ARG:NH2	2.30	0.65
4:DE:245:ASP:O	4:DE:356:ASN:ND2	2.30	0.65
3:DF:13:GLY:HA2	3:DF:16:ILE:HB	1.79	0.65
4:DI:88:HIS:HA	4:EI:283:HIS:HE1	1.62	0.65
4:EA:120:ASP:OD1	4:EA:123:ARG:NH1	2.30	0.65
4:EE:286:LEU:HD11	4:EE:373:ARG:H	1.62	0.65
3:EF:328:GLU:OE2	3:EF:329:GLN:NE2	2.29	0.65
4:EI:329:ASN:HA	4:EI:332:ILE:HG12	1.79	0.65
3:EJ:419:VAL:O	3:EJ:423:GLN:NE2	2.31	0.65
39:EJ:501:GTP:O3G	39:EJ:501:GTP:O3'	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:F5:163:LEU:HB3	11:F5:311:ARG:HH21	1.62	0.65
11:Fb:395:MET:HE1	11:Fc:270:LEU:HB2	1.79	0.65
11:Fb:413:GLN:HE22	11:Fc:145:ARG:HH12	1.44	0.65
11:Fl:452:GLU:HA	11:Fl:455:LEU:HD12	1.79	0.65
14:G5:155:ASN:ND2	14:G5:187:PRO:O	2.30	0.65
14:G5:259:THR:OG1	14:G5:281:ARG:O	2.13	0.65
14:G6:715:GLU:O	14:G6:720:VAL:HG21	1.97	0.65
3:GL:12:CYS:HB3	39:GL:501:GTP:O4'	1.97	0.65
15:H3:13:GLU:HG2	15:H3:40:ALA:HA	1.78	0.65
4:IE:207:GLU:HB2	4:IE:304:LYS:HZ1	1.61	0.65
3:IF:269:GLY:HA2	3:IF:300:MET:HE1	1.78	0.65
3:IH:173:PRO:O	3:IH:380:ARG:NH2	2.29	0.65
3:IJ:5:VAL:HG23	3:IJ:130:LEU:HD11	1.78	0.65
4:IK:127:ASP:OD1	4:IK:128:LEU:N	2.30	0.65
4:IK:245:ASP:O	4:IK:356:ASN:ND2	2.30	0.65
4:JE:32:PRO:O	4:JE:85:GLN:NE2	2.29	0.65
3:JH:350:LYS:HE3	4:JI:181:VAL:H	1.60	0.65
3:KD:214:THR:HG21	3:KD:273:LEU:HB3	1.79	0.65
4:KE:286:LEU:HD11	4:KE:373:ARG:H	1.61	0.65
3:KH:412:GLU:OE1	3:KH:416:ASN:ND2	2.29	0.65
22:L2:26:ARG:HH12	22:L2:31:PHE:HB2	1.61	0.65
3:LH:398:TYR:HB3	3:LH:403:MET:HB3	1.79	0.65
3:LJ:250:LEU:O	3:LJ:254:ALA:N	2.23	0.65
4:LK:370:LYS:HZ3	27:R:216:PHE:HB3	1.62	0.65
3:LL:309:ARG:HE	3:LL:426:GLN:HE21	1.41	0.65
3:MB:359:ARG:NH1	27:P:366:GLU:OE1	2.29	0.65
4:ME:316:CYS:HB3	4:ME:378:LEU:HB3	1.78	0.65
3:MF:362:LYS:NZ	27:P:242:GLU:OE1	2.29	0.65
3:ND:357:PRO:HB3	3:ND:362:LYS:HA	1.79	0.65
3:ND:385:PHE:HZ	3:ND:408:PHE:HB3	1.62	0.65
29:P2:122:ASN:ND2	29:P2:171:ASP:OD2	2.28	0.65
3:PF:375:GLN:HA	3:PF:378:PHE:CZ	2.32	0.65
3:PJ:46:ARG:HH12	4:PK:73:THR:HG23	1.62	0.65
3:PJ:302:ALA:HB1	3:PJ:377:LEU:HD11	1.79	0.65
3:QF:156:ARG:NH1	3:QF:195:ASN:O	2.30	0.65
4:QI:32:PRO:O	4:QI:85:GLN:NE2	2.30	0.65
3:QL:328:GLU:OE1	3:QL:332:ASN:ND2	2.30	0.65
4:RC:108:TYR:O	4:RC:112:LYS:NZ	2.26	0.65
4:RE:172:TYR:HB2	4:RE:203:MET:HB2	1.78	0.65
4:RI:108:TYR:O	4:RI:112:LYS:NZ	2.25	0.65
3:SJ:246:LEU:HB2	3:SJ:352:ALA:HB1	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:TG:271:THR:HB	4:TG:377:MET:HB2	1.79	0.65
4:TI:127:ASP:OD1	4:TI:128:LEU:N	2.30	0.65
4:TM:53:PHE:O	4:TM:64:ARG:NH1	2.30	0.65
4:TM:207:GLU:HB2	4:TM:304:LYS:HZ1	1.60	0.65
4:UA:1:MET:SD	4:UA:2:ARG:N	2.70	0.65
4:UG:216:ASN:HB2	4:UG:276:ILE:HD12	1.79	0.65
4:UK:25:CYS:HB2	4:UK:30:ILE:HB	1.78	0.65
3:UL:357:PRO:HB3	3:UL:362:LYS:HA	1.78	0.65
3:VL:317:PHE:HB3	3:VL:321:MET:HE3	1.78	0.65
3:WB:117:LEU:HD11	3:WB:154:LYS:HD2	1.79	0.65
3:WF:60:VAL:HG23	3:WF:86:ARG:HH11	1.62	0.65
3:WF:117:LEU:HD11	3:WF:154:LYS:HD2	1.77	0.65
35:XL:141:LEU:HB3	35:XL:180:ILE:HG21	1.78	0.65
3:AB:392:LYS:HB3	3:AB:395:LEU:HD13	1.78	0.64
3:AD:376:GLU:HA	3:AD:379:LYS:HE3	1.79	0.64
4:AI:49:PHE:O	4:AI:53:PHE:N	2.29	0.64
4:AI:108:TYR:O	4:AI:112:LYS:NZ	2.27	0.64
4:AM:11:GLN:HB2	4:AM:74:VAL:HG21	1.79	0.64
5:B6:223:ARG:O	5:B6:227:ASN:ND2	2.29	0.64
39:BF:501:GTP:O3G	39:BF:501:GTP:O3'	2.15	0.64
4:BM:89:PRO:HD2	4:CM:280:LYS:HZ3	1.62	0.64
4:BM:127:ASP:OD1	4:BM:128:LEU:N	2.30	0.64
7:C7:177:ILE:HG12	7:C7:180:ARG:HH21	1.63	0.64
7:C7:192:LEU:HB2	7:C7:226:ILE:HG21	1.79	0.64
7:C7:375:ILE:O	7:C7:378:THR:OG1	2.14	0.64
7:C7:404:THR:OG1	7:C7:405:ARG:NH1	2.30	0.64
3:CB:156:ARG:NH1	3:CB:195:ASN:O	2.31	0.64
3:CD:317:PHE:HB3	3:CD:321:MET:HE3	1.79	0.64
3:CF:317:PHE:HD2	3:CF:353:VAL:HG22	1.62	0.64
4:CG:67:PHE:HB2	4:CG:92:LEU:HD13	1.78	0.64
4:CG:144:GLY:N	39:CG:501:GTP:O2B	2.28	0.64
3:CH:117:LEU:HD11	3:CH:154:LYS:HD2	1.80	0.64
7:Cc:220:LEU:HD13	8:D3:25:LYS:HD2	1.79	0.64
8:D2:238:VAL:HA	8:D3:351:ARG:HD3	1.79	0.64
3:DD:12:CYS:O	3:DD:15:GLN:HB2	1.97	0.64
4:DI:89:PRO:HG3	15:H5:282:ILE:HD11	1.78	0.64
4:DK:245:ASP:O	4:DK:356:ASN:ND2	2.31	0.64
9:E:385:LEU:HD11	4:IA:221:ARG:H	1.62	0.64
10:E2:151:VAL:HG23	10:E2:152:THR:HG22	1.79	0.64
4:EA:216:ASN:HB2	4:EA:276:ILE:HD12	1.78	0.64
3:ED:83:GLN:O	3:ED:86:ARG:NH2	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FE:264:ARG:HG2	4:FE:265:ILE:H	1.62	0.64
3:FH:246:LEU:HB2	3:FH:352:ALA:HB1	1.79	0.64
4:FI:245:ASP:O	4:FI:356:ASN:ND2	2.30	0.64
4:FK:54:SER:HB2	4:FK:62:VAL:HB	1.77	0.64
11:Fb:163:LEU:O	11:Fb:167:ASN:ND2	2.30	0.64
11:Fh:394:THR:O	11:Fh:396:LEU:N	2.30	0.64
13:G2:170:ARG:HG3	13:G2:201:LEU:HD22	1.80	0.64
13:G2:170:ARG:O	13:G2:202:ASN:ND2	2.30	0.64
14:G4:740:ILE:HA	14:G4:744:GLY:HA3	1.79	0.64
4:GG:419:SER:HA	4:GG:422:ARG:HE	1.61	0.64
15:H4:24:TYR:H	15:H4:27:LEU:HD23	1.61	0.64
15:H6:46:PRO:HA	15:H6:49:GLN:HG2	1.79	0.64
17:I2:59:LYS:HA	17:I2:62:ALA:HB3	1.79	0.64
3:ID:84:ILE:O	3:ID:86:ARG:NH1	2.29	0.64
3:IF:317:PHE:O	3:IF:354:CYS:N	2.28	0.64
3:IJ:48:ASN:O	3:IJ:62:ARG:NH2	2.30	0.64
3:JF:246:LEU:HB2	3:JF:352:ALA:HB1	1.79	0.64
3:KF:216:LYS:O	3:KF:276:ARG:NH2	2.30	0.64
3:KH:302:ALA:HB1	3:KH:377:LEU:HD21	1.78	0.64
3:KL:385:PHE:HA	3:KL:388:MET:HE2	1.79	0.64
3:LF:4:ILE:HD11	3:LF:131:GLN:HB2	1.78	0.64
3:LH:135:LEU:HD12	3:LH:166:THR:HG22	1.79	0.64
4:LK:115:VAL:HA	4:LK:118:VAL:HG22	1.79	0.64
3:LL:48:ASN:O	3:LL:62:ARG:NH2	2.27	0.64
3:LL:309:ARG:H	3:LL:372:THR:HG1	1.43	0.64
3:MB:309:ARG:HE	3:MB:426:GLN:HE21	1.45	0.64
4:MG:388:TRP:HB3	4:MG:425:LEU:HD11	1.78	0.64
3:NF:252:LYS:O	3:NF:256:ASN:ND2	2.30	0.64
3:NH:39:ASP:OD1	3:NH:43:GLN:NE2	2.29	0.64
3:NJ:33:THR:O	3:NJ:58:LYS:NZ	2.30	0.64
4:NK:204:VAL:HG23	4:NK:302:MET:HG3	1.79	0.64
28:O1:74:ILE:HD11	28:O1:102:LEU:HD22	1.79	0.64
4:OA:396:ASP:OD1	4:OA:397:LEU:N	2.30	0.64
4:OC:338:LYS:HZ2	4:OC:340:THR:H	1.45	0.64
29:P2:18:ALA:HB3	29:P2:613:ARG:HB3	1.78	0.64
29:P2:507:CYS:SG	29:P2:520:SER:OG	2.55	0.64
29:P3:595:ILE:HG12	29:P3:602:ILE:HD13	1.78	0.64
3:PD:48:ASN:O	3:PD:62:ARG:NH2	2.24	0.64
3:PD:111:GLU:HG2	3:PD:112:LEU:HD12	1.78	0.64
4:PG:98:ASP:O	4:PG:105:ARG:NH2	2.29	0.64
3:PH:324:LYS:NZ	4:PI:222:PRO:O	2.25	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PJ:4:ILE:HD11	3:PJ:131:GLN:HB2	1.79	0.64
4:PK:50:ASN:O	4:PK:64:ARG:NH1	2.29	0.64
4:PM:81:GLY:O	4:PM:84:ARG:NH1	2.29	0.64
30:Q1:1455:ARG:O	30:Q1:1459:LYS:NZ	2.30	0.64
4:QM:216:ASN:HB2	4:QM:276:ILE:HD12	1.78	0.64
3:RB:305:PRO:HB2	3:RB:310:TYR:HE1	1.62	0.64
3:RF:100:ASN:HB3	3:RF:103:LYS:HB2	1.78	0.64
3:RH:54:ALA:HB3	3:RH:58:LYS:HB2	1.78	0.64
4:RM:396:ASP:OD1	4:RM:397:LEU:N	2.30	0.64
3:SF:316:VAL:HG22	3:SF:352:ALA:HB3	1.80	0.64
4:SK:50:ASN:O	4:SK:64:ARG:NH1	2.30	0.64
4:SK:306:ASP:OD2	4:SK:309:HIS:ND1	2.30	0.64
3:TH:117:LEU:HD11	3:TH:154:LYS:HD2	1.78	0.64
3:TH:316:VAL:HG22	3:TH:352:ALA:HB3	1.78	0.64
4:TI:338:LYS:HZ2	4:TI:340:THR:H	1.44	0.64
3:TN:4:ILE:HD11	3:TN:131:GLN:HB2	1.79	0.64
4:UA:53:PHE:O	4:UA:64:ARG:NH1	2.29	0.64
3:UF:30:ILE:HG13	3:UF:36:TYR:HD1	1.60	0.64
4:UK:358:GLN:NE2	4:UK:359:PRO:O	2.29	0.64
3:VD:372:THR:HB	3:VD:375:GLN:HE22	1.61	0.64
4:WI:53:PHE:O	4:WI:64:ARG:NH1	2.29	0.64
34:XD:71:ILE:HG21	34:XD:167:PHE:HD2	1.62	0.64
34:XG:83:LEU:HD11	34:XG:161:ARG:HB2	1.79	0.64
35:XK:188:ASN:HD21	35:XK:206:GLY:H	1.43	0.64
37:YC:14:LYS:O	37:YC:18:PHE:N	2.30	0.64
37:YC:159:PRO:HB2	37:YC:161:LYS:HG2	1.77	0.64
2:A3:46:GLU:OE1	2:A3:50:LYS:NZ	2.30	0.64
4:AC:188:ILE:HG22	4:AC:421:ALA:HB1	1.78	0.64
4:AC:262:TYR:OH	3:AD:391:ARG:O	2.15	0.64
4:AG:310:GLY:O	4:AG:342:GLN:NE2	2.30	0.64
4:AM:264:ARG:O	4:AM:266:HIS:ND1	2.29	0.64
1:B:478:GLY:HA2	11:Fb:313:ASN:HD21	1.60	0.64
5:B7:39:ARG:HH12	5:B8:293:LEU:HD13	1.63	0.64
4:BI:144:GLY:N	39:BI:501:GTP:O2B	2.26	0.64
6:C:90:ARG:HE	3:ID:33:THR:HG22	1.62	0.64
6:C:144:MET:HG2	6:C:289:ALA:HA	1.79	0.64
7:C3:97:ASP:HA	7:C3:100:TYR:HD2	1.62	0.64
7:C3:167:MET:HE3	7:C3:254:LEU:HD12	1.79	0.64
7:C7:383:LYS:HA	7:C7:386:ILE:HD12	1.80	0.64
3:CH:328:GLU:OE2	3:CH:329:GLN:NE2	2.30	0.64
3:CL:207:LEU:HB3	3:CL:225:LEU:HD22	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CM:127:ASP:OD1	4:CM:128:LEU:N	2.31	0.64
7:Cc:188:THR:HG21	7:Cc:233:MET:HE1	1.77	0.64
7:Cd:227:LEU:O	7:Cd:230:GLN:NE2	2.31	0.64
4:DC:88:HIS:HA	4:EC:283:HIS:HE1	1.61	0.64
4:DE:32:PRO:O	4:DE:85:GLN:NE2	2.31	0.64
4:EG:188:ILE:HG22	4:EG:421:ALA:HB1	1.80	0.64
3:FJ:262:ARG:HD2	3:FJ:421:GLU:HG3	1.78	0.64
11:Fa:386:GLU:O	11:Fa:390:LYS:HG3	1.98	0.64
14:G5:715:GLU:O	14:G5:720:VAL:HG21	1.98	0.64
3:GF:52:ASN:OD1	3:GF:62:ARG:NH1	2.29	0.64
4:GI:205:ASP:OD2	4:GI:304:LYS:NZ	2.25	0.64
4:HI:279:GLU:HA	4:HI:282:TYR:CD2	2.32	0.64
3:HL:267:MET:O	3:HL:369:GLY:N	2.27	0.64
16:I:96:MET:HA	16:I:99:VAL:HB	1.78	0.64
4:IC:208:ALA:H	4:IC:304:LYS:HZ1	1.45	0.64
4:IE:171:ILE:HD12	4:IE:204:VAL:HG13	1.77	0.64
3:IH:372:THR:HG21	3:IH:426:GLN:HG3	1.80	0.64
4:II:34:GLY:HA2	4:II:86:LEU:HD21	1.78	0.64
3:JJ:385:PHE:HA	3:JJ:388:MET:HE2	1.77	0.64
3:KF:374:ILE:HG23	3:KF:377:LEU:HD12	1.80	0.64
4:KK:49:PHE:O	4:KK:53:PHE:N	2.29	0.64
22:L4:50:GLY:O	3:ML:306:ARG:NH1	2.30	0.64
3:LD:173:PRO:O	3:LD:380:ARG:NH2	2.30	0.64
3:LD:278:SER:HA	3:LD:281:TYR:HB2	1.78	0.64
3:LJ:33:THR:O	3:LJ:58:LYS:NZ	2.29	0.64
3:MB:374:ILE:HA	3:MB:377:LEU:HD13	1.79	0.64
4:MM:264:ARG:O	4:MM:266:HIS:ND1	2.30	0.64
4:NC:203:MET:HE1	4:NC:267:PHE:HB3	1.79	0.64
4:NG:30:ILE:HA	4:NG:36:MET:HE1	1.79	0.64
4:NK:54:SER:HB2	4:NK:62:VAL:HB	1.77	0.64
3:OD:246:LEU:HB2	3:OD:352:ALA:HB1	1.79	0.64
3:OD:317:PHE:HB3	3:OD:321:MET:HE3	1.80	0.64
29:P3:167:SER:HB2	29:P3:173:MET:HB2	1.78	0.64
4:PG:396:ASP:OD1	4:PG:397:LEU:N	2.30	0.64
4:PI:144:GLY:N	39:PI:501:GTP:O2B	2.29	0.64
4:PK:1:MET:SD	4:PK:2:ARG:N	2.70	0.64
4:PM:7:ILE:N	4:PM:136:LEU:O	2.24	0.64
3:QD:211:CYS:HA	3:QD:215:LEU:HB2	1.78	0.64
3:QL:350:LYS:HE3	4:QM:181:VAL:H	1.62	0.64
4:RK:84:ARG:HE	37:YP:131:ARG:NH2	1.95	0.64
4:RK:213:CYS:O	4:RK:219:ILE:N	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:RK:265:ILE:HD12	4:RK:267:PHE:HD2	1.61	0.64
3:RL:211:CYS:HA	3:RL:215:LEU:HB2	1.78	0.64
4:RM:244:PHE:HB2	4:RM:356:ASN:HD21	1.61	0.64
4:SC:234:ILE:HD11	4:SC:272:TYR:HB2	1.79	0.64
4:SI:220:GLU:HG2	4:SI:221:ARG:HG2	1.78	0.64
3:SJ:251:ARG:HD2	4:SK:100:ALA:HB2	1.78	0.64
4:TC:244:PHE:HB2	4:TC:356:ASN:HD21	1.62	0.64
3:TD:390:ARG:HD2	3:TD:391:ARG:HG3	1.79	0.64
4:TG:262:TYR:OH	3:TH:391:ARG:O	2.15	0.64
4:TI:273:ALA:HB2	4:TI:295:CYS:HB3	1.78	0.64
4:TM:295:CYS:HB2	4:TM:377:MET:HE3	1.79	0.64
4:UG:216:ASN:ND2	4:UG:275:VAL:O	2.30	0.64
4:UG:302:MET:SD	4:UG:302:MET:N	2.65	0.64
4:UK:339:ARG:O	4:UK:342:GLN:NE2	2.30	0.64
3:UL:30:ILE:HG13	3:UL:36:TYR:HD1	1.61	0.64
4:VA:1:MET:SD	4:VA:2:ARG:N	2.71	0.64
33:W:81:LEU:N	33:W:88:ARG:O	2.26	0.64
4:WA:9:VAL:HG11	4:WA:150:ALA:HB2	1.79	0.64
3:WD:132:GLY:HA2	3:WD:162:ARG:HB3	1.78	0.64
3:WD:324:LYS:HD2	4:WE:221:ARG:HA	1.79	0.64
3:WF:309:ARG:NH2	3:WF:426:GLN:O	2.30	0.64
3:WH:309:ARG:H	3:WH:372:THR:HG1	1.45	0.64
3:WJ:322:SER:OG	3:WJ:324:LYS:NZ	2.29	0.64
4:WK:50:ASN:O	4:WK:64:ARG:NH1	2.31	0.64
35:XH:93:LEU:HB3	35:XH:94:PRO:HD3	1.79	0.64
37:YI:155:SER:HA	37:YI:158:LEU:HG	1.78	0.64
37:YQ:16:LYS:HA	37:YQ:19:GLN:HG2	1.79	0.64
37:YQ:110:LEU:HD23	37:YQ:140:LEU:HD13	1.77	0.64
3:AB:424:GLN:HG3	35:XH:183:ILE:HB	1.79	0.64
5:B8:168:ILE:HD13	5:B8:171:GLN:HE22	1.62	0.64
4:BE:33:ASP:OD1	4:BE:34:GLY:N	2.30	0.64
3:BF:33:THR:O	3:BF:58:LYS:NZ	2.30	0.64
4:BG:12:ALA:HB2	39:BG:501:GTP:H5"	1.78	0.64
4:BI:154:MET:HE3	4:BI:194:THR:HG22	1.78	0.64
3:BJ:132:GLY:HA3	3:BJ:163:ILE:H	1.62	0.64
6:C:389:PHE:HA	6:C:393:LEU:HG	1.79	0.64
7:C2:442:GLU:HA	7:C2:445:LEU:HD12	1.78	0.64
3:CB:342:VAL:HB	3:CB:344:TRP:HE3	1.62	0.64
4:CI:30:ILE:HA	4:CI:36:MET:HE1	1.78	0.64
4:CI:54:SER:HB2	4:CI:62:VAL:HB	1.80	0.64
3:CJ:60:VAL:HG23	3:CJ:86:ARG:HH11	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CK:310:GLY:O	4:CK:342:GLN:NE2	2.30	0.64
3:CL:269:GLY:HA3	3:CL:367:PHE:HB3	1.79	0.64
7:Ca:205:ARG:NH2	7:Ca:211:VAL:O	2.29	0.64
7:Cc:167:MET:HE1	7:Cc:315:ARG:HB2	1.79	0.64
8:D2:307:ARG:NH1	8:D2:310:GLU:OE1	2.30	0.64
8:D8:429:LYS:O	8:D8:433:HIS:ND1	2.25	0.64
8:D9:320:TYR:O	8:D9:324:LYS:NZ	2.30	0.64
3:DF:372:THR:HG21	3:DF:426:GLN:HG3	1.79	0.64
3:DH:276:ARG:HA	13:G2:285:ARG:HH21	1.62	0.64
10:E2:139:TRP:CE3	10:E2:153:ARG:HD2	2.33	0.64
3:EH:211:CYS:HA	3:EH:215:LEU:HB2	1.77	0.64
11:F3:127:LYS:HA	11:F3:130:LEU:HD12	1.80	0.64
11:F6:264:ASP:OD1	11:F6:265:GLU:N	2.30	0.64
11:F7:251:GLU:HA	11:F7:254:ILE:HG22	1.79	0.64
11:F7:260:ALA:HA	11:F8:402:ARG:NH1	2.11	0.64
4:FE:205:ASP:OD2	4:FE:304:LYS:NZ	2.27	0.64
11:Fa:356:LYS:O	11:Fa:360:GLN:NE2	2.31	0.64
11:Fc:137:GLY:HA2	11:Fc:140:ARG:NE	2.11	0.64
12:G:195:LEU:O	12:G:199:HIS:ND1	2.31	0.64
13:G2:99:PHE:HE1	13:G2:190:THR:HG21	1.62	0.64
14:G4:87:ASP:OD1	14:G4:100:ARG:NH1	2.30	0.64
14:G4:737:ASP:OD1	14:G4:738:PHE:N	2.29	0.64
14:G6:597:GLN:NE2	14:G6:598:GLU:OE1	2.30	0.64
14:G6:634:ASN:ND2	14:G6:636:ASP:OD1	2.24	0.64
4:GA:427:ALA:HA	4:GA:430:LYS:HE3	1.80	0.64
3:GF:211:CYS:HA	3:GF:215:LEU:HB2	1.80	0.64
3:GH:48:ASN:O	3:GH:62:ARG:NH2	2.25	0.64
4:GI:127:ASP:OD1	4:GI:128:LEU:N	2.30	0.64
3:GJ:286:VAL:HG21	3:GJ:325:GLU:HG3	1.80	0.64
4:GK:386:GLU:HA	4:GK:389:ALA:HB3	1.79	0.64
3:HJ:84:ILE:O	3:HJ:86:ARG:NH1	2.30	0.64
3:HJ:374:ILE:HA	3:HJ:377:LEU:HD13	1.78	0.64
3:IB:250:LEU:HD13	3:IB:253:LEU:HD12	1.80	0.64
3:IB:385:PHE:HA	3:IB:388:MET:HE2	1.77	0.64
4:IE:127:ASP:OD1	4:IE:128:LEU:N	2.30	0.64
4:JC:371:VAL:HG11	4:JC:374:ALA:HB2	1.79	0.64
4:JG:46:ASP:HA	4:JG:50:ASN:HB3	1.79	0.64
21:K2:307:SER:OG	21:K2:308:LYS:NZ	2.30	0.64
21:K5:19:PRO:HA	21:K5:22:ARG:HH21	1.61	0.64
4:KA:11:GLN:N	4:KA:69:ASP:OD1	2.31	0.64
39:KJ:501:GTP:O3G	39:KJ:501:GTP:O3'	2.15	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:KK:338:LYS:HZ2	4:KK:340:THR:H	1.43	0.64
3:LD:54:ALA:HB3	3:LD:58:LYS:HB3	1.79	0.64
3:MD:12:CYS:HB3	39:MD:501:GTP:H5'	1.79	0.64
4:NC:53:PHE:O	4:NC:64:ARG:NH1	2.29	0.64
4:OA:67:PHE:HB2	4:OA:92:LEU:HD13	1.79	0.64
3:OH:289:LEU:HD21	3:OH:363:MET:HB3	1.79	0.64
3:PB:48:ASN:O	3:PB:62:ARG:NH2	2.27	0.64
4:PC:244:PHE:HB2	4:PC:356:ASN:HD21	1.61	0.64
4:PI:258:ASN:HB3	4:PI:352:LYS:HE2	1.78	0.64
27:Q:27:GLY:O	27:Q:31:ASP:N	2.30	0.64
3:QL:267:MET:O	3:QL:369:GLY:N	2.31	0.64
4:RG:107:HIS:HA	4:RG:152:LEU:HD23	1.79	0.64
3:RL:28:HIS:O	3:RL:43:GLN:NE2	2.30	0.64
4:TC:419:SER:HA	4:TC:422:ARG:HE	1.62	0.64
3:TJ:117:LEU:HD11	3:TJ:154:LYS:HD2	1.78	0.64
4:UA:278:ALA:O	4:UA:370:LYS:NZ	2.30	0.64
3:UJ:262:ARG:HD2	3:UJ:421:GLU:HG3	1.79	0.64
3:VD:33:THR:O	3:VD:58:LYS:NZ	2.30	0.64
4:VI:295:CYS:HB2	4:VI:377:MET:HE3	1.80	0.64
4:WG:5:ILE:HD13	4:WG:64:ARG:HB3	1.79	0.64
4:WI:316:CYS:N	4:WI:378:LEU:O	2.30	0.64
34:XG:91:VAL:HG22	34:XG:154:VAL:HG23	1.79	0.64
35:XM:160:VAL:HG13	35:XM:161:VAL:HG13	1.78	0.64
36:Y:147:LYS:NZ	36:Z:492:GLN:O	2.30	0.64
37:YB:41:ARG:NH1	37:YB:42:PRO:O	2.30	0.64
37:YT:105:SER:HB3	37:YT:108:ASN:HB3	1.78	0.64
4:AI:371:VAL:HG11	4:AI:374:ALA:HB2	1.78	0.64
5:B3:223:ARG:O	5:B3:227:ASN:ND2	2.29	0.64
5:B7:120:ARG:HH21	5:B7:386:LEU:HB3	1.62	0.64
6:C:56:MET:HB3	6:C:64:THR:HG23	1.78	0.64
7:C2:218:GLU:O	7:C2:222:GLU:HG2	1.97	0.64
7:C8:260:ASP:OD1	7:C8:261:LYS:N	2.31	0.64
7:C8:322:ARG:O	7:C8:325:THR:OG1	2.14	0.64
3:CB:32:PRO:O	3:CB:83:GLN:NE2	2.25	0.64
3:CB:134:GLN:HB2	3:CB:167:PHE:HE1	1.62	0.64
4:CI:127:ASP:OD1	4:CI:128:LEU:N	2.31	0.64
4:CK:229:ARG:O	4:CK:233:GLN:N	2.29	0.64
3:CL:268:PRO:HD2	3:CL:301:ALA:HB2	1.79	0.64
4:CM:6:SER:HA	4:CM:136:LEU:HB2	1.78	0.64
7:Cb:174:LEU:HA	7:Cb:177:ILE:HD12	1.79	0.64
3:DD:2:ARG:HB3	3:DD:131:GLN:NE2	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DD:12:CYS:HB3	39:DD:501:GTP:O4'	1.98	0.64
3:DF:392:LYS:HB2	3:DF:395:LEU:HD13	1.80	0.64
3:DL:372:THR:HG21	3:DL:426:GLN:HG3	1.78	0.64
3:ED:250:LEU:O	3:ED:254:ALA:N	2.25	0.64
4:EE:115:VAL:HG21	4:EE:156:ARG:HD3	1.78	0.64
3:EL:48:ASN:O	3:EL:62:ARG:NH2	2.30	0.64
3:FF:58:LYS:NZ	3:GF:280:GLN:O	2.30	0.64
11:Fg:384:ALA:O	11:Fg:388:PRO:HD2	1.97	0.64
11:Fj:302:ASP:O	11:Fj:306:HIS:ND1	2.29	0.64
12:G:44:TYR:HA	12:G:47:TYR:HD2	1.62	0.64
13:G1:147:LYS:HG2	13:G1:150:LYS:HD3	1.79	0.64
13:G2:194:LEU:O	13:G2:198:GLY:N	2.27	0.64
4:GC:52:PHE:HZ	4:GC:239:THR:HB	1.63	0.64
4:GC:88:HIS:CE1	4:GC:121:ARG:HH22	2.15	0.64
4:GE:229:ARG:HE	4:GE:368:LEU:HD22	1.60	0.64
3:GF:170:VAL:N	3:GF:202:ILE:O	2.30	0.64
4:GG:226:ASN:HD22	4:GG:229:ARG:HH21	1.44	0.64
3:HD:136:THR:HA	3:HD:167:PHE:HB2	1.79	0.64
4:HG:313:MET:HE3	4:HG:380:ASN:HB3	1.77	0.64
3:IB:167:PHE:HD1	3:IB:200:TYR:HD2	1.45	0.64
3:IB:324:LYS:NZ	4:IC:222:PRO:O	2.22	0.64
18:J:130:LYS:NZ	4:JI:221:ARG:O	2.29	0.64
4:JI:88:HIS:HA	4:KI:283:HIS:HE1	1.63	0.64
3:JL:132:GLY:HA2	3:JL:162:ARG:HB3	1.78	0.64
3:KD:70:PRO:HA	3:KD:73:MET:HE2	1.78	0.64
3:KD:135:LEU:HD21	3:KD:151:LEU:HD11	1.78	0.64
4:KI:236:SER:O	4:KI:243:ARG:NH2	2.29	0.64
22:L2:158:ILE:HA	22:L2:161:ARG:HB2	1.78	0.64
4:LE:236:SER:O	4:LE:243:ARG:NH2	2.28	0.64
24:M2:56:TYR:HB2	24:M2:89:PHE:HB2	1.78	0.64
3:MB:227:HIS:NE2	27:P:371:GLN:OE1	2.25	0.64
3:MD:178:THR:HB	3:MD:181:GLU:HB2	1.79	0.64
3:MJ:48:ASN:O	3:MJ:62:ARG:NH2	2.25	0.64
3:MJ:60:VAL:HG23	3:MJ:86:ARG:HH11	1.61	0.64
4:MK:107:HIS:HA	4:MK:152:LEU:HD23	1.79	0.64
3:OB:317:PHE:HB3	3:OB:321:MET:HE3	1.80	0.64
3:OJ:302:ALA:HB1	3:OJ:377:LEU:HD11	1.79	0.64
4:OK:108:TYR:O	4:OK:112:LYS:NZ	2.24	0.64
4:PA:54:SER:HB2	4:PA:62:VAL:HB	1.78	0.64
4:PC:54:SER:HB2	4:PC:62:VAL:HB	1.78	0.64
4:PE:161:TYR:O	4:PE:166:LYS:NZ	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QD:302:ALA:HB1	3:QD:377:LEU:HD11	1.79	0.64
4:QE:316:CYS:HB3	4:QE:378:LEU:HB2	1.80	0.64
3:QF:392:LYS:HB2	3:QF:395:LEU:HD13	1.78	0.64
4:QI:192:HIS:HA	4:QI:195:LEU:HD23	1.80	0.64
3:QJ:215:LEU:O	3:QJ:276:ARG:NH1	2.23	0.64
27:R:368:TYR:HA	27:R:371:GLN:HE22	1.61	0.64
31:R3:120:TYR:HA	31:R3:123:MET:HE3	1.80	0.64
3:RH:28:HIS:HD2	3:RH:43:GLN:HB2	1.62	0.64
3:SH:39:ASP:OD1	3:SH:43:GLN:NE2	2.29	0.64
4:TC:154:MET:HE1	4:TC:197:HIS:HB2	1.79	0.64
3:TD:278:SER:HA	3:TD:281:TYR:HB2	1.78	0.64
4:TI:1:MET:SD	4:TI:2:ARG:N	2.70	0.64
3:UB:253:LEU:HB3	3:UB:257:MET:HE1	1.79	0.64
4:VA:49:PHE:O	4:VA:53:PHE:N	2.30	0.64
3:VF:170:VAL:N	3:VF:202:ILE:O	2.30	0.64
4:WE:192:HIS:HA	4:WE:195:LEU:HD23	1.79	0.64
4:WI:5:ILE:HD13	4:WI:64:ARG:HB3	1.78	0.64
4:WK:3:GLU:HG2	4:WK:132:LEU:H	1.62	0.64
37:YB:6:GLU:OE1	37:YB:9:ARG:NH2	2.29	0.64
2:A2:320:ARG:NH1	2:A2:334:GLN:OE1	2.30	0.64
3:AD:143:THR:HG22	3:AD:147:MET:HE2	1.78	0.64
3:AF:84:ILE:O	3:AF:86:ARG:NH1	2.31	0.64
3:AF:322:SER:N	3:AF:325:GLU:OE2	2.29	0.64
39:AH:501:GTP:O3G	39:AH:501:GTP:O3'	2.15	0.64
3:AJ:32:PRO:O	3:AJ:83:GLN:NE2	2.27	0.64
3:AJ:131:GLN:HB3	3:AJ:163:ILE:HD12	1.79	0.64
5:B3:282:GLN:HE22	5:B4:25:SER:HA	1.62	0.64
5:B5:12:TYR:C	5:B5:13:ARG:HE	2.06	0.64
7:C9:360:LYS:O	7:C9:364:HIS:ND1	2.30	0.64
3:CJ:250:LEU:O	3:CJ:254:ALA:N	2.26	0.64
4:CK:127:ASP:OD1	4:CK:128:LEU:N	2.31	0.64
3:CL:246:LEU:HB2	3:CL:352:ALA:HB1	1.80	0.64
6:D:41:ARG:HH22	4:JK:282:TYR:HH	1.46	0.64
6:D:153:ALA:HA	6:D:156:HIS:CE1	2.32	0.64
6:D:165:TYR:HD2	6:D:166:ASN:HD22	1.45	0.64
8:D3:128:THR:HA	8:D3:131:MET:HE2	1.79	0.64
8:D7:430:CYS:HA	8:D7:433:HIS:NE2	2.12	0.64
3:DB:319:GLY:HA2	3:DB:357:PRO:HG3	1.80	0.64
4:DE:205:ASP:OD2	4:DE:304:LYS:NZ	2.29	0.64
4:DI:127:ASP:OD1	4:DI:128:LEU:N	2.31	0.64
4:EA:144:GLY:N	39:EA:501:GTP:O2B	2.29	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EE:224:TYR:CE2	39:EE:501:GTP:C5	2.85	0.64
11:F3:167:ASN:HA	11:F3:170:MET:SD	2.37	0.64
11:F6:129:GLN:HA	11:F6:132:HIS:CD2	2.33	0.64
11:F6:474:LYS:NZ	11:F6:475:SER:OG	2.26	0.64
4:FA:171:ILE:HD12	4:FA:204:VAL:HG13	1.79	0.64
14:G4:346:VAL:HB	14:G4:349:ARG:HB2	1.79	0.64
4:GC:101:ASN:HA	4:GC:144:GLY:HA2	1.80	0.64
4:GI:88:HIS:CE1	4:GI:121:ARG:HH22	2.15	0.64
4:GK:30:ILE:HA	4:GK:36:MET:HE1	1.80	0.64
4:GK:271:THR:HB	4:GK:377:MET:HB3	1.79	0.64
3:GL:83:GLN:O	3:GL:86:ARG:NH2	2.30	0.64
15:H2:226:PRO:HG2	15:H2:243:ALA:HB1	1.78	0.64
3:HF:101:TRP:HB2	3:HF:184:ASN:HD22	1.63	0.64
3:HL:376:GLU:HA	3:HL:379:LYS:HG2	1.78	0.64
3:IB:211:CYS:HA	3:IB:215:LEU:HB3	1.80	0.64
4:IE:205:ASP:OD2	4:IE:304:LYS:NZ	2.26	0.64
4:II:261:PRO:HA	3:IJ:394:PHE:HE1	1.62	0.64
4:KC:306:ASP:OD2	4:NC:282:TYR:OH	2.14	0.64
3:KL:16:ILE:HD13	3:KL:226:ASN:HD22	1.63	0.64
3:KL:317:PHE:HB3	3:KL:321:MET:HE3	1.80	0.64
22:L3:28:THR:HG22	22:L3:32:ARG:HG3	1.78	0.64
4:LK:258:ASN:HB3	4:LK:352:LYS:HE2	1.79	0.64
3:MB:269:GLY:HA2	3:MB:300:MET:HE1	1.79	0.64
3:MH:286:VAL:HG21	3:MH:325:GLU:HG3	1.80	0.64
3:ML:65:LEU:HD21	3:ML:73:MET:HG3	1.79	0.64
4:NI:316:CYS:HB3	4:NI:378:LEU:HB3	1.79	0.64
4:NK:338:LYS:HZ2	4:NK:340:THR:H	1.43	0.64
3:NL:311:LEU:HG	3:NL:312:THR:HG23	1.78	0.64
27:O:42:GLN:OE1	27:O:49:ARG:NH2	2.26	0.64
3:OF:317:PHE:O	3:OF:354:CYS:N	2.28	0.64
4:OI:208:ALA:H	4:OI:304:LYS:HZ1	1.45	0.64
3:OJ:83:GLN:O	3:OJ:86:ARG:NH2	2.31	0.64
29:P2:48:LEU:HB3	29:P2:50:GLN:HE22	1.62	0.64
4:PE:395:PHE:HA	4:PE:398:MET:HE2	1.80	0.64
3:QD:33:THR:O	3:QD:58:LYS:NZ	2.31	0.64
39:QF:501:GTP:O3G	39:QF:501:GTP:O3'	2.09	0.64
4:QG:216:ASN:HB2	4:QG:276:ILE:HD12	1.79	0.64
3:QJ:423:GLN:O	3:QJ:427:ASP:N	2.30	0.64
4:SM:310:GLY:O	4:SM:342:GLN:NE2	2.31	0.64
4:TC:288:VAL:HG21	4:TC:328:VAL:HG12	1.79	0.64
3:TJ:101:TRP:HB2	3:TJ:184:ASN:HD22	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:U:381:ASP:OD2	33:U:386:GLN:NE2	2.31	0.64
3:UD:293:MET:HE3	3:UD:367:PHE:HB2	1.79	0.64
3:UD:316:VAL:HG22	3:UD:352:ALA:HB3	1.79	0.64
4:UG:427:ALA:HA	4:UG:430:LYS:HG2	1.79	0.64
4:VA:203:MET:HE1	4:VA:267:PHE:HB3	1.77	0.64
4:VA:216:ASN:HB2	4:VA:276:ILE:HD12	1.79	0.64
4:VI:264:ARG:O	4:VI:266:HIS:ND1	2.31	0.64
3:VL:214:THR:HG21	3:VL:273:LEU:HB3	1.78	0.64
3:WB:372:THR:HB	3:WB:375:GLN:HE22	1.60	0.64
3:WB:419:VAL:O	3:WB:423:GLN:NE2	2.31	0.64
4:WC:271:THR:HA	4:WC:302:MET:HE1	1.80	0.64
4:WE:302:MET:SD	4:WE:302:MET:N	2.70	0.64
3:WF:152:ILE:HD12	3:WF:155:ILE:HD11	1.80	0.64
3:WF:247:ASN:HB3	3:WF:252:LYS:HG2	1.79	0.64
34:XC:94:LEU:HB2	34:XC:152:LEU:HD11	1.79	0.64
1:A:127:LYS:NZ	1:B:467:VAL:H	1.95	0.64
1:A:166:HIS:HA	1:A:169:LEU:HD12	1.79	0.64
2:A3:311:LYS:HB3	2:A4:198:ILE:HG22	1.79	0.64
3:AF:269:GLY:N	3:AF:367:PHE:O	2.31	0.64
3:AH:211:CYS:HA	3:AH:215:LEU:HB2	1.79	0.64
3:AJ:317:PHE:O	3:AJ:354:CYS:N	2.27	0.64
3:AL:54:ALA:HB3	3:AL:58:LYS:HB3	1.79	0.64
4:BI:49:PHE:O	4:BI:53:PHE:N	2.31	0.64
4:BK:244:PHE:HB2	4:BK:356:ASN:HD21	1.62	0.64
7:C4:275:ARG:HB3	7:C4:278:SER:HB3	1.79	0.64
3:CD:54:ALA:HB3	3:CD:58:LYS:HB2	1.79	0.64
3:CJ:173:PRO:O	3:CJ:380:ARG:NH2	2.31	0.64
4:CK:46:ASP:OD1	4:CK:50:ASN:ND2	2.31	0.64
4:CK:273:ALA:HB2	4:CK:295:CYS:HB3	1.79	0.64
7:Cb:285:ARG:HH11	7:Cb:286:GLY:H	1.44	0.64
8:D2:88:THR:C	8:D3:346:LYS:HZ1	2.04	0.64
8:D2:237:GLN:O	8:D3:351:ARG:NH1	2.31	0.64
3:DB:322:SER:N	3:DB:325:GLU:OE2	2.30	0.64
3:DB:328:GLU:OE1	3:DB:332:ASN:ND2	2.29	0.64
4:DE:54:SER:HB2	4:DE:62:VAL:HB	1.78	0.64
3:DF:328:GLU:OE1	3:DF:332:ASN:ND2	2.31	0.64
3:DF:398:TYR:HB3	3:DF:403:MET:HB2	1.78	0.64
3:ED:170:VAL:N	3:ED:202:ILE:O	2.29	0.64
11:F1:423:ILE:O	11:F1:426:THR:OG1	2.12	0.64
11:F6:356:LYS:O	11:F6:359:THR:OG1	2.12	0.64
4:FE:54:SER:HB2	4:FE:62:VAL:HB	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FF:3:GLU:HG2	3:FF:130:LEU:HD13	1.80	0.64
4:FG:430:LYS:O	4:FG:433:GLU:HG2	1.97	0.64
3:FJ:130:LEU:HB2	3:FJ:162:ARG:HH11	1.63	0.64
4:GE:127:ASP:OD1	4:GE:128:LEU:N	2.30	0.64
3:HB:12:CYS:SG	3:HB:13:GLY:N	2.70	0.64
4:HE:107:HIS:HA	4:HE:152:LEU:HD23	1.79	0.64
4:HG:269:LEU:N	4:HG:379:SER:O	2.24	0.64
3:IB:83:GLN:O	3:IB:86:ARG:NH2	2.30	0.64
3:ID:250:LEU:O	3:ID:254:ALA:N	2.27	0.64
4:II:127:ASP:OD1	4:II:128:LEU:N	2.31	0.64
4:II:192:HIS:HA	4:II:195:LEU:HD23	1.79	0.64
3:IJ:84:ILE:O	3:IJ:86:ARG:NH1	2.31	0.64
3:IJ:101:TRP:HB2	3:IJ:184:ASN:HD22	1.61	0.64
4:IK:168:GLU:OE2	4:IK:198:SER:OG	2.16	0.64
3:IL:114:ASP:OD1	3:IL:115:SER:N	2.31	0.64
19:J1:133:THR:HA	19:J1:136:LYS:HE3	1.78	0.64
19:J3:30:ILE:O	19:J3:139:ARG:NH2	2.31	0.64
4:JA:192:HIS:HA	4:JA:195:LEU:HD23	1.80	0.64
4:JA:388:TRP:HB3	4:JA:425:LEU:HD11	1.80	0.64
3:JB:286:VAL:HG21	3:JB:325:GLU:HG3	1.78	0.64
4:JC:101:ASN:HA	4:JC:144:GLY:HA2	1.79	0.64
4:JC:192:HIS:HA	4:JC:195:LEU:HD23	1.80	0.64
4:JC:234:ILE:HD11	4:JC:272:TYR:HB2	1.79	0.64
3:JD:83:GLN:O	3:JD:86:ARG:NH2	2.31	0.64
4:JE:52:PHE:HZ	4:JE:239:THR:HB	1.63	0.64
4:JK:49:PHE:O	4:JK:53:PHE:N	2.30	0.64
4:JK:80:THR:OG1	32:T:317:ARG:NH2	2.31	0.64
21:K2:189:GLU:HG2	21:K2:190:LYS:H	1.63	0.64
3:KD:235:GLY:HA3	3:KD:366:THR:HG21	1.80	0.64
3:KL:250:LEU:HD13	3:KL:253:LEU:HD12	1.80	0.64
22:L4:49:MET:HG3	3:ML:336:LYS:HE3	1.80	0.64
3:LF:278:SER:HA	3:LF:281:TYR:HB2	1.79	0.64
4:ME:419:SER:HA	4:ME:422:ARG:HE	1.63	0.64
3:MF:13:GLY:HA2	3:MF:16:ILE:HB	1.79	0.64
3:MF:227:HIS:CE1	27:P:251:LEU:HD22	2.33	0.64
3:MH:273:LEU:H	3:MH:292:GLN:HE22	1.46	0.64
4:NG:316:CYS:HB3	4:NG:378:LEU:HB3	1.79	0.64
4:OA:5:ILE:HD13	4:OA:64:ARG:HB3	1.80	0.64
4:OC:223:THR:OG1	4:OC:225:THR:OG1	2.14	0.64
30:Q2:1386:TYR:HB3	30:Q2:1395:ALA:H	1.62	0.64
4:QC:155:GLU:OE2	4:QC:156:ARG:NH1	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:QM:102:ASN:ND2	4:QM:411:GLU:OE2	2.30	0.64
3:RF:322:SER:N	3:RF:325:GLU:OE2	2.30	0.64
3:RH:214:THR:HG21	3:RH:273:LEU:HB3	1.79	0.64
4:RK:205:ASP:OD2	4:RK:304:LYS:NZ	2.26	0.64
3:RL:60:VAL:HG23	3:RL:86:ARG:HH11	1.63	0.64
3:SF:12:CYS:HA	3:SF:15:GLN:NE2	2.13	0.64
4:SM:88:HIS:HB3	4:SM:91:GLN:HB2	1.80	0.64
3:TD:162:ARG:HA	3:TD:251:ARG:HH22	1.62	0.64
4:TI:108:TYR:O	4:TI:112:LYS:NZ	2.27	0.64
4:TI:430:LYS:NZ	4:TI:430:LYS:O	2.31	0.64
4:TM:161:TYR:O	4:TM:166:LYS:NZ	2.30	0.64
3:TN:39:ASP:OD1	3:TN:43:GLN:NE2	2.29	0.64
4:UC:127:ASP:OD1	4:UC:128:LEU:N	2.30	0.64
4:UG:205:ASP:OD2	4:UG:304:LYS:NZ	2.27	0.64
4:UI:88:HIS:HB3	4:UI:91:GLN:HB2	1.80	0.64
3:VD:143:THR:HG22	3:VD:147:MET:HE2	1.80	0.64
3:VF:211:CYS:HA	3:VF:215:LEU:HB2	1.80	0.64
4:VK:154:MET:HE3	4:VK:194:THR:HG22	1.80	0.64
4:WA:358:GLN:NE2	4:WA:359:PRO:O	2.29	0.64
3:WB:357:PRO:HB3	3:WB:362:LYS:HA	1.80	0.64
3:WH:103:LYS:NZ	3:WH:108:GLU:OE2	2.30	0.64
4:WK:46:ASP:OD1	4:WK:50:ASN:ND2	2.30	0.64
34:XB:94:LEU:HB2	34:XB:152:LEU:HD11	1.79	0.64
34:XF:1:MET:N	34:XF:69:LEU:O	2.30	0.64
35:XH:93:LEU:HD23	35:XH:129:VAL:HG11	1.80	0.64
37:YS:15:TYR:HA	37:YS:18:PHE:HB3	1.78	0.64
37:YV:15:TYR:HA	37:YV:18:PHE:HB3	1.78	0.64
37:YV:140:LEU:HD12	37:YV:141:ILE:HG13	1.80	0.64
2:A2:128:VAL:HG21	2:A3:11:PHE:H	1.62	0.64
4:AC:203:MET:SD	4:AC:203:MET:N	2.67	0.64
3:AH:77:ARG:O	3:AH:77:ARG:NH1	2.28	0.64
5:B2:329:LEU:O	5:B3:213:THR:OG1	2.14	0.64
5:B4:157:GLN:O	5:B4:161:HIS:ND1	2.28	0.64
5:B8:78:LEU:HD13	5:B8:179:LYS:NZ	2.12	0.64
5:B8:213:THR:O	5:B9:331:ARG:NH1	2.31	0.64
4:BE:316:CYS:HB3	4:BE:378:LEU:HB3	1.80	0.64
3:BL:83:GLN:O	3:BL:86:ARG:NH2	2.30	0.64
4:BM:108:TYR:O	4:BM:112:LYS:NZ	2.22	0.64
7:C4:322:ARG:NH1	7:C4:323:GLU:OE2	2.31	0.64
8:D3:75:GLU:HA	8:D3:78:ARG:NE	2.11	0.64
8:D6:335:GLN:OE1	8:D7:78:ARG:NH2	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DF:2:ARG:HB3	3:DF:131:GLN:NE2	2.12	0.64
3:DH:250:LEU:O	3:DH:254:ALA:N	2.24	0.64
3:DH:372:THR:HB	3:DH:375:GLN:HE22	1.62	0.64
4:EA:208:ALA:H	4:EA:304:LYS:HZ1	1.45	0.64
4:EK:49:PHE:O	4:EK:53:PHE:N	2.31	0.64
11:F6:197:ASN:HA	11:F6:200:LYS:HD2	1.79	0.64
4:FG:316:CYS:HB3	4:FG:378:LEU:HB2	1.80	0.64
3:FJ:380:ARG:O	3:FJ:384:GLN:HG2	1.97	0.64
11:Fa:455:LEU:HD13	11:Fa:458:LYS:NZ	2.13	0.64
11:Fi:330:ASP:HB3	11:Fi:334:LYS:NZ	2.12	0.64
11:Fl:131:ILE:HD12	11:Fl:308:GLN:HG2	1.80	0.64
14:G5:120:VAL:HG12	14:G5:127:GLN:HE22	1.61	0.64
3:GB:309:ARG:HE	3:GB:426:GLN:HE21	1.44	0.64
3:GF:12:CYS:HA	39:GF:501:GTP:N2	2.12	0.64
4:HC:271:THR:HA	4:HC:302:MET:HE1	1.79	0.64
3:HH:207:LEU:HB3	3:HH:225:LEU:HD22	1.79	0.64
4:HK:127:ASP:OD1	4:HK:128:LEU:N	2.31	0.64
3:IF:211:CYS:HA	3:IF:215:LEU:HB2	1.79	0.64
4:IG:107:HIS:HA	4:IG:152:LEU:HD23	1.79	0.64
18:J:153:LEU:HD12	18:J:155:SER:H	1.62	0.64
4:JA:53:PHE:O	4:JA:64:ARG:NH1	2.29	0.64
3:JB:295:ASP:HB2	3:JB:298:ASN:HB2	1.80	0.64
3:JH:132:GLY:HA2	3:JH:162:ARG:HB3	1.80	0.64
21:K4:138:ALA:HA	21:K4:252:LEU:HD11	1.78	0.64
21:K4:326:GLN:OE1	21:K4:468:ARG:NH2	2.31	0.64
3:KD:302:ALA:HB1	3:KD:377:LEU:HD21	1.79	0.64
4:KE:205:ASP:OD2	4:KE:304:LYS:NZ	2.27	0.64
3:KH:77:ARG:O	3:KH:77:ARG:NH1	2.27	0.64
3:KJ:322:SER:N	3:KJ:325:GLU:OE2	2.31	0.64
3:KL:3:GLU:HG2	3:KL:130:LEU:HD13	1.79	0.64
22:L1:34:THR:O	22:L1:38:ASP:N	2.31	0.64
3:LD:246:LEU:HB2	3:LD:352:ALA:HB1	1.78	0.64
3:LD:277:GLY:O	27:Q:74:LYS:NZ	2.31	0.64
3:LD:378:PHE:HA	3:LD:381:ILE:HG12	1.79	0.64
4:LG:49:PHE:O	4:LG:53:PHE:N	2.30	0.64
4:LG:54:SER:HB2	4:LG:62:VAL:HB	1.78	0.64
4:LG:205:ASP:OD2	4:LG:304:LYS:NZ	2.30	0.64
4:LI:67:PHE:HB2	4:LI:92:LEU:HD13	1.79	0.64
4:LI:205:ASP:OD2	4:LI:304:LYS:NZ	2.28	0.64
3:LJ:309:ARG:HG2	24:M3:64:MET:HE2	1.79	0.64
39:MB:501:GTP:O3G	39:MB:501:GTP:O3'	2.15	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MC:216:ASN:ND2	4:MC:275:VAL:O	2.31	0.64
4:MC:263:PRO:O	28:O1:46:ARG:NH1	2.31	0.64
3:MF:39:ASP:OD1	3:MF:43:GLN:NE2	2.30	0.64
3:MH:292:GLN:O	3:MH:298:ASN:ND2	2.30	0.64
3:ML:173:PRO:O	3:ML:380:ARG:NH2	2.31	0.64
4:NA:203:MET:HE1	4:NA:267:PHE:HB3	1.79	0.64
3:NF:299:MET:SD	3:NF:301:ALA:N	2.70	0.64
4:NG:220:GLU:HG2	4:NG:221:ARG:HG2	1.79	0.64
3:NJ:39:ASP:OD1	3:NJ:43:GLN:NE2	2.31	0.64
4:OC:67:PHE:HB2	4:OC:92:LEU:HD13	1.78	0.64
3:OD:211:CYS:HA	3:OD:215:LEU:HB2	1.80	0.64
3:OJ:372:THR:HG21	3:OJ:426:GLN:HG2	1.79	0.64
3:OL:103:LYS:O	3:OL:108:GLU:N	2.30	0.64
3:PH:278:SER:HA	3:PH:281:TYR:HB2	1.79	0.64
3:PJ:56:GLY:HA2	37:YR:59:ASN:HA	1.78	0.64
3:QB:250:LEU:O	3:QB:254:ALA:N	2.22	0.64
4:QG:53:PHE:O	4:QG:64:ARG:NH1	2.31	0.64
4:QG:102:ASN:ND2	4:QG:411:GLU:OE2	2.28	0.64
4:QK:108:TYR:O	4:QK:112:LYS:NZ	2.23	0.64
31:R1:119:ASN:HB2	31:R1:149:ILE:HG13	1.80	0.64
3:RB:324:LYS:HE2	4:RC:222:PRO:HD2	1.80	0.64
3:RD:392:LYS:HB2	3:RD:395:LEU:HD13	1.80	0.64
3:RD:398:TYR:HB3	3:RD:403:MET:HB2	1.79	0.64
4:SE:54:SER:HB2	4:SE:62:VAL:HB	1.79	0.64
3:TD:198:GLU:HA	3:TD:266:PHE:HE2	1.63	0.64
3:TJ:15:GLN:NE2	39:TJ:501:GTP:HN1	1.96	0.64
3:TJ:309:ARG:HE	3:TJ:426:GLN:HE21	1.45	0.64
33:U:483:ARG:HH21	33:U:486:GLN:HG3	1.62	0.64
3:UL:273:LEU:H	3:UL:292:GLN:HE22	1.46	0.64
4:VA:288:VAL:HG21	4:VA:328:VAL:HG12	1.79	0.64
4:VE:32:PRO:O	4:VE:85:GLN:NE2	2.30	0.64
3:VF:252:LYS:O	3:VF:256:ASN:ND2	2.31	0.64
3:VF:357:PRO:HB3	3:VF:362:LYS:HA	1.77	0.64
4:WC:262:TYR:OH	3:WD:391:ARG:O	2.15	0.64
4:WE:11:GLN:HB3	39:WE:501:GTP:O1B	1.98	0.64
3:WF:322:SER:N	3:WF:325:GLU:OE2	2.30	0.64
3:WJ:280:GLN:OE1	3:WJ:280:GLN:N	2.28	0.64
33:X:463:GLU:OE1	33:X:467:LYS:NZ	2.30	0.64
37:YF:130:ALA:HA	37:YF:134:TYR:HB2	1.79	0.64
37:YH:41:ARG:HH12	37:YH:45:SER:H	1.44	0.64
37:YM:57:CYS:O	37:YM:63:ARG:NH1	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:YU:26:ILE:HD13	37:YU:29:LEU:HD12	1.80	0.64
2:A1:367:ARG:NH1	14:G4:182:GLY:HA2	2.12	0.64
3:AB:111:GLU:HG2	3:AB:112:LEU:HD12	1.78	0.64
3:AF:211:CYS:HA	3:AF:215:LEU:HB2	1.80	0.64
5:B7:312:LYS:O	5:B7:316:THR:HG23	1.97	0.64
4:BC:32:PRO:O	4:BC:85:GLN:NE2	2.31	0.64
4:CK:49:PHE:HB2	4:CK:53:PHE:HB2	1.78	0.64
6:D:297:ARG:HH11	6:D:318:VAL:HG12	1.62	0.64
8:D9:61:TYR:O	8:D9:65:HIS:ND1	2.29	0.64
4:DA:388:TRP:HB3	4:DA:425:LEU:HD11	1.79	0.64
3:DF:240:LEU:HA	3:DF:248:ALA:HB1	1.79	0.64
4:DG:208:ALA:H	4:DG:304:LYS:HZ1	1.45	0.64
3:DJ:39:ASP:OD1	3:DJ:43:GLN:NE2	2.30	0.64
3:DJ:173:PRO:O	3:DJ:380:ARG:NH2	2.30	0.64
3:DL:375:GLN:HA	3:DL:378:PHE:CZ	2.33	0.64
8:Da:93:GLN:HA	8:Da:96:GLN:HE21	1.63	0.64
4:EA:172:TYR:HB2	4:EA:203:MET:HB3	1.79	0.64
4:EE:54:SER:HB2	4:EE:62:VAL:HB	1.79	0.64
4:EE:220:GLU:HG2	4:EE:221:ARG:HG2	1.79	0.64
3:EJ:32:PRO:O	3:EJ:83:GLN:NE2	2.29	0.64
11:F3:251:GLU:HA	11:F3:254:ILE:HG22	1.80	0.64
4:FA:371:VAL:HG11	4:FA:374:ALA:HB2	1.79	0.64
3:FB:214:THR:HG21	3:FB:273:LEU:HB3	1.79	0.64
3:FD:84:ILE:O	3:FD:86:ARG:NH1	2.31	0.64
4:FE:192:HIS:HA	4:FE:195:LEU:HD23	1.78	0.64
3:FF:132:GLY:HA2	3:FF:162:ARG:HB3	1.79	0.64
3:FH:84:ILE:O	3:FH:86:ARG:NH1	2.31	0.64
4:FI:52:PHE:HE2	4:FI:243:ARG:HH11	1.46	0.64
3:FJ:103:LYS:HD3	3:FJ:107:THR:HB	1.80	0.64
11:Ff:385:LYS:HZ2	11:Ff:423:ILE:HG12	1.63	0.64
12:G:321:LEU:HD11	3:GF:279:GLN:HB2	1.80	0.64
12:G:414:GLU:O	12:G:418:HIS:ND1	2.30	0.64
13:G2:35:ASN:O	28:O2:18:TYR:OH	2.12	0.64
14:G5:403:PHE:HA	14:G5:406:CYS:HB2	1.79	0.64
4:GA:30:ILE:HA	4:GA:36:MET:HE1	1.78	0.64
4:GA:207:GLU:HB2	4:GA:304:LYS:HZ1	1.62	0.64
4:GE:388:TRP:HB3	4:GE:425:LEU:HD11	1.80	0.64
3:GJ:322:SER:N	3:GJ:325:GLU:OE2	2.30	0.64
15:H6:299:THR:OG1	15:H6:302:ASN:ND2	2.17	0.64
3:HB:84:ILE:O	3:HB:86:ARG:NH1	2.30	0.64
4:HE:229:ARG:HE	4:HE:368:LEU:HD22	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HH:328:GLU:OE1	3:HH:332:ASN:ND2	2.29	0.64
3:IB:412:GLU:OE1	3:IB:416:ASN:ND2	2.29	0.64
3:ID:83:GLN:O	3:ID:86:ARG:NH2	2.31	0.64
4:IG:144:GLY:N	39:IG:501:GTP:O2B	2.31	0.64
4:JA:67:PHE:HB2	4:JA:92:LEU:HD13	1.80	0.64
4:JE:127:ASP:OD1	4:JE:128:LEU:N	2.31	0.64
4:JE:262:TYR:OH	3:JF:391:ARG:O	2.15	0.64
4:JG:88:HIS:CE1	4:JG:121:ARG:HH22	2.16	0.64
3:JL:13:GLY:HA2	3:JL:16:ILE:HB	1.80	0.64
3:JL:48:ASN:O	3:JL:62:ARG:NH2	2.30	0.64
21:K2:109:LEU:HD23	21:K2:110:PRO:HD3	1.79	0.64
21:K4:285:PRO:HB2	24:M3:77:CYS:SG	2.38	0.64
4:KE:5:ILE:HD13	4:KE:64:ARG:HB3	1.80	0.64
4:LE:22:GLU:HG2	4:LE:83:TYR:HE2	1.63	0.64
4:ME:49:PHE:O	4:ME:53:PHE:N	2.28	0.64
3:ML:372:THR:HG21	3:ML:426:GLN:HG3	1.80	0.64
3:NB:216:LYS:O	3:NB:276:ARG:NH2	2.31	0.64
4:NE:53:PHE:O	4:NE:64:ARG:NH1	2.31	0.64
3:NF:357:PRO:HB3	3:NF:362:LYS:HA	1.79	0.64
3:NJ:317:PHE:HB3	3:NJ:321:MET:HE3	1.78	0.64
4:NK:172:TYR:N	4:NK:204:VAL:O	2.28	0.64
4:OC:81:GLY:O	4:OC:84:ARG:NH1	2.30	0.64
3:OD:13:GLY:HA2	3:OD:16:ILE:HB	1.80	0.64
4:PG:127:ASP:OD1	4:PG:128:LEU:N	2.31	0.64
4:QC:166:LYS:HE2	4:QC:198:SER:HA	1.79	0.64
3:QF:372:THR:HB	3:QF:375:GLN:HE22	1.62	0.64
4:RE:88:HIS:HB3	4:RE:91:GLN:HB2	1.80	0.64
3:RH:317:PHE:HB3	3:RH:321:MET:HE3	1.80	0.64
39:RJ:501:GTP:O3G	39:RJ:501:GTP:O3'	2.15	0.64
4:RK:220:GLU:HG2	4:RK:221:ARG:HG2	1.80	0.64
4:RM:207:GLU:HB2	4:RM:304:LYS:HZ1	1.61	0.64
4:SC:53:PHE:O	4:SC:64:ARG:NH1	2.31	0.64
4:SG:425:LEU:HD13	4:SG:428:LEU:HD12	1.80	0.64
3:SL:103:LYS:O	3:SL:108:GLU:N	2.29	0.64
3:SL:412:GLU:OE1	3:SL:416:ASN:ND2	2.30	0.64
3:TN:132:GLY:HA2	3:TN:162:ARG:HB3	1.79	0.64
33:U:323:GLN:HG3	33:U:326:LYS:HE3	1.80	0.64
4:UE:127:ASP:OD1	4:UE:128:LEU:N	2.31	0.64
3:UJ:12:CYS:SG	3:UJ:13:GLY:N	2.71	0.64
3:UJ:170:VAL:N	3:UJ:202:ILE:O	2.29	0.64
3:VB:309:ARG:H	3:VB:372:THR:HG1	1.43	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VB:324:LYS:NZ	4:VC:222:PRO:O	2.19	0.64
3:VD:100:ASN:HB3	3:VD:103:LYS:HB2	1.78	0.64
3:VJ:4:ILE:HD11	3:VJ:131:GLN:HB2	1.80	0.64
4:VK:161:TYR:O	4:VK:166:LYS:NZ	2.31	0.64
4:WA:25:CYS:HB2	4:WA:30:ILE:HB	1.79	0.64
34:XC:11:LEU:HD13	34:XC:71:ILE:HD12	1.79	0.64
37:YC:23:PHE:O	37:YC:27:ALA:N	2.28	0.64
36:Z:427:ASP:HA	36:Z:430:ILE:HD12	1.80	0.64
1:A:109:LYS:HE3	3:HH:80:PRO:HA	1.80	0.64
2:A3:289:ILE:HG21	2:A3:366:TYR:HE1	1.63	0.64
3:AD:350:LYS:HE3	4:AE:181:VAL:H	1.62	0.64
5:B3:123:ARG:HH12	5:B3:383:THR:HG22	1.62	0.64
5:B8:75:LYS:HA	5:B8:179:LYS:HE3	1.79	0.64
5:B8:85:LEU:O	5:B8:89:ILE:HG12	1.98	0.64
4:BC:236:SER:O	4:BC:243:ARG:NH2	2.29	0.64
3:BJ:132:GLY:HA2	3:BJ:162:ARG:HB3	1.78	0.64
4:BK:236:SER:O	4:BK:243:ARG:NH2	2.28	0.64
4:CE:207:GLU:HB2	4:CE:304:LYS:HZ1	1.63	0.64
3:CF:360:GLY:HA3	13:G1:309:PRO:HB3	1.80	0.64
3:CH:46:ARG:HH12	4:CI:73:THR:HG23	1.63	0.64
8:D4:194:ILE:HG23	10:E3:134:TRP:NE1	2.13	0.64
3:DD:392:LYS:HB2	3:DD:395:LEU:HD13	1.79	0.64
4:DG:216:ASN:HB2	4:DG:276:ILE:HD12	1.80	0.64
3:DH:46:ARG:HH12	4:DI:73:THR:HG23	1.63	0.64
4:DK:10:GLY:O	4:DK:13:GLY:N	2.30	0.64
3:DL:392:LYS:HB2	3:DL:395:LEU:HD13	1.80	0.64
4:EG:301:GLN:HG3	4:EG:303:VAL:H	1.62	0.64
3:EL:207:LEU:HB3	3:EL:225:LEU:HD22	1.80	0.64
11:F2:210:ASN:HA	11:F2:213:LYS:HD2	1.80	0.64
4:FA:236:SER:O	4:FA:243:ARG:NH2	2.31	0.64
3:FB:385:PHE:HZ	3:FB:408:PHE:HB3	1.62	0.64
3:FH:323:MET:SD	3:FH:323:MET:N	2.62	0.64
4:FI:1:MET:SD	4:FI:2:ARG:N	2.71	0.64
14:G4:715:GLU:H	14:G4:720:VAL:HG21	1.61	0.64
14:G6:236:TRP:HB2	14:G6:351:VAL:HG12	1.79	0.64
4:GA:317:MET:HE3	4:GA:377:MET:HE1	1.79	0.64
4:GI:1:MET:SD	4:GI:2:ARG:N	2.70	0.64
4:GI:22:GLU:O	4:GI:26:LEU:HD23	1.98	0.64
3:GL:403:MET:HE1	3:GL:407:GLU:HB2	1.80	0.64
3:HB:267:MET:O	3:HB:369:GLY:N	2.31	0.64
3:HF:262:ARG:NH2	3:HF:425:TYR:OH	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HG:394:LYS:O	4:HG:398:MET:HG2	1.98	0.64
4:IA:396:ASP:OD1	4:IA:397:LEU:N	2.31	0.64
4:IE:54:SER:HB2	4:IE:62:VAL:HB	1.78	0.64
4:IE:358:GLN:NE2	4:IE:359:PRO:O	2.29	0.64
3:IH:132:GLY:HA2	3:IH:162:ARG:HB3	1.80	0.64
4:IM:338:LYS:HZ2	4:IM:340:THR:H	1.43	0.64
18:J:127:LEU:O	18:J:129:GLU:N	2.30	0.64
4:JG:12:ALA:HB2	39:JG:501:GTP:H5"	1.79	0.64
4:KA:419:SER:HA	4:KA:422:ARG:HE	1.62	0.64
3:KB:67:ASP:OD2	3:KB:72:THR:OG1	2.16	0.64
3:KJ:118:ASP:OD1	3:KJ:121:ARG:NH1	2.31	0.64
22:L2:171:GLU:HA	22:L2:174:ASN:HB2	1.78	0.64
22:L4:62:PHE:HD2	22:L4:63:LEU:HG	1.63	0.64
3:LH:372:THR:HB	3:LH:375:GLN:HE22	1.63	0.64
3:LH:392:LYS:HB2	3:LH:395:LEU:HD13	1.80	0.64
4:MC:79:ARG:HE	4:MC:92:LEU:HD23	1.62	0.64
3:MD:170:VAL:N	3:MD:202:ILE:O	2.30	0.64
3:MF:302:ALA:HB1	3:MF:377:LEU:HD11	1.80	0.64
4:MG:236:SER:O	4:MG:243:ARG:NH2	2.28	0.64
3:ML:410:GLU:OE1	30:Q3:1419:ARG:NH1	2.30	0.64
26:N3:160:LYS:HA	26:N3:166:PHE:HD1	1.63	0.64
4:NC:50:ASN:O	4:NC:64:ARG:NH1	2.30	0.64
3:NF:39:ASP:OD1	3:NF:43:GLN:NE2	2.30	0.64
4:NI:203:MET:HE1	4:NI:267:PHE:HB3	1.78	0.64
4:NI:216:ASN:HB2	4:NI:276:ILE:HD12	1.78	0.64
28:O2:80:THR:HG22	28:O2:114:SER:HB3	1.79	0.64
4:OK:25:CYS:HB2	4:OK:30:ILE:HB	1.78	0.64
3:PB:38:GLY:H	37:YC:64:ARG:NH2	1.96	0.64
4:PK:192:HIS:HA	4:PK:195:LEU:HD23	1.80	0.64
3:PL:170:VAL:N	3:PL:202:ILE:O	2.30	0.64
3:QJ:357:PRO:HB3	3:QJ:362:LYS:HA	1.80	0.64
3:RB:132:GLY:HA2	3:RB:162:ARG:HB3	1.79	0.64
3:RD:118:ASP:OD2	3:RD:122:LYS:NZ	2.31	0.64
4:RG:127:ASP:OD1	4:RG:128:LEU:N	2.31	0.64
4:RM:127:ASP:OD1	4:RM:128:LEU:N	2.31	0.64
4:SK:316:CYS:N	4:SK:378:LEU:O	2.25	0.64
3:TF:173:PRO:O	3:TF:380:ARG:NH2	2.31	0.64
4:TM:67:PHE:HB2	4:TM:92:LEU:HD13	1.80	0.64
4:UC:32:PRO:O	4:UC:85:GLN:NE2	2.31	0.64
4:UC:216:ASN:HB2	4:UC:276:ILE:HD12	1.78	0.64
3:VH:21:TRP:HZ3	3:VH:51:TYR:HE1	1.46	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VH:141:GLY:HA3	39:VH:501:GTP:H5"	1.79	0.64
3:VH:286:VAL:HG21	3:VH:325:GLU:HG3	1.80	0.64
3:VJ:290:THR:HG21	3:VJ:329:GLN:HB3	1.79	0.64
4:WA:53:PHE:O	4:WA:64:ARG:NH1	2.30	0.64
4:WA:171:ILE:HD12	4:WA:204:VAL:HG13	1.79	0.64
4:WE:127:ASP:OD1	4:WE:128:LEU:N	2.31	0.64
4:WE:396:ASP:OD1	4:WE:397:LEU:N	2.31	0.64
4:WG:32:PRO:O	4:WG:85:GLN:NE2	2.30	0.64
3:WH:19:LYS:NZ	3:WH:223:GLY:O	2.30	0.64
3:WH:289:LEU:HD21	3:WH:363:MET:HB3	1.78	0.64
3:WJ:392:LYS:HB2	3:WJ:395:LEU:HD13	1.78	0.64
34:XA:88:THR:HG23	34:XA:157:HIS:ND1	2.13	0.64
37:YJ:14:LYS:O	37:YJ:18:PHE:N	2.31	0.64
1:A:137:ARG:HE	4:HG:370:LYS:HE3	1.63	0.64
1:A:275:ASN:O	1:A:279:GLN:NE2	2.31	0.64
4:AC:419:SER:HA	4:AC:422:ARG:HE	1.62	0.64
4:AE:161:TYR:O	4:AE:166:LYS:NZ	2.31	0.64
4:AE:326:LYS:HZ2	3:AF:220:PRO:HD2	1.61	0.64
4:AK:402:ARG:HH21	35:XL:233:PRO:HG2	1.63	0.64
4:BC:271:THR:HA	4:BC:302:MET:HE1	1.80	0.64
3:BD:41:ASP:OD1	15:H2:6:LYS:NZ	2.31	0.64
4:BE:236:SER:O	4:BE:243:ARG:NH2	2.27	0.64
4:BI:264:ARG:O	4:BI:266:HIS:ND1	2.29	0.64
4:BM:65:ALA:O	4:BM:91:GLN:NE2	2.30	0.64
6:C:272:MET:HG2	6:C:276:ASN:HD21	1.63	0.64
3:CB:286:VAL:HG21	3:CB:325:GLU:HG3	1.80	0.64
4:CC:30:ILE:HA	4:CC:36:MET:HE1	1.79	0.64
4:CE:49:PHE:O	4:CE:53:PHE:N	2.31	0.64
4:CI:180:ALA:HB1	4:CI:182:VAL:HG12	1.79	0.64
6:D:63:ARG:HH21	3:IL:77:ARG:HG3	1.61	0.64
8:D9:276:VAL:HG22	8:D9:279:ARG:HH22	1.63	0.64
4:DA:396:ASP:OD1	4:DA:397:LEU:N	2.31	0.64
4:EC:171:ILE:HD12	4:EC:204:VAL:HG13	1.79	0.64
3:ED:276:ARG:HB3	13:G1:397:CYS:HA	1.80	0.64
3:EF:15:GLN:HG2	3:EF:222:TYR:HE2	1.62	0.64
4:EG:216:ASN:ND2	4:EG:275:VAL:O	2.31	0.64
3:EJ:250:LEU:O	3:EJ:254:ALA:N	2.31	0.64
11:F2:129:GLN:O	11:F2:133:GLN:HG2	1.98	0.64
3:FB:322:SER:N	3:FB:325:GLU:OE2	2.30	0.64
4:FC:9:VAL:HA	4:FC:68:VAL:HG23	1.78	0.64
4:FC:192:HIS:HA	4:FC:195:LEU:HD23	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G5:649:LYS:HZ3	14:G5:653:LEU:HD13	1.62	0.64
4:GE:1:MET:SD	4:GE:2:ARG:N	2.71	0.64
15:H1:13:GLU:HG3	15:H1:14:PRO:HA	1.79	0.64
15:H6:228:PHE:HA	15:H6:232:MET:HE2	1.79	0.64
3:HD:324:LYS:NZ	4:HE:222:PRO:O	2.20	0.64
4:HE:205:ASP:OD2	4:HE:304:LYS:NZ	2.31	0.64
3:HH:170:VAL:N	3:HH:202:ILE:O	2.30	0.64
3:HH:372:THR:HB	3:HH:375:GLN:HE22	1.62	0.64
3:HL:84:ILE:O	3:HL:86:ARG:NH1	2.31	0.64
4:IC:211:ASP:OD1	4:IC:214:ARG:NH1	2.31	0.64
4:IG:127:ASP:OD1	4:IG:128:LEU:N	2.31	0.64
4:JA:49:PHE:HB2	4:JA:53:PHE:HB2	1.80	0.64
3:JF:296:ALA:HA	3:JF:299:MET:HE1	1.78	0.64
3:JH:47:ILE:HG13	3:JH:51:TYR:HB2	1.80	0.64
4:JI:49:PHE:O	4:JI:53:PHE:N	2.30	0.64
3:JJ:47:ILE:HG13	3:JJ:51:TYR:HB2	1.80	0.64
4:JK:67:PHE:HB2	4:JK:92:LEU:HD13	1.80	0.64
4:JK:104:ALA:HB1	4:JK:413:MET:HE3	1.80	0.64
4:KA:216:ASN:HB2	4:KA:276:ILE:HD12	1.80	0.64
4:KC:208:ALA:H	4:KC:304:LYS:HZ1	1.43	0.64
22:L1:129:ARG:HG3	22:L1:130:THR:HG23	1.80	0.64
22:L3:190:ASP:OD1	22:L3:193:ARG:NH1	2.31	0.64
4:LC:57:GLY:O	27:P:335:ARG:NH2	2.30	0.64
4:LC:401:LYS:C	4:LC:402:ARG:HD3	2.23	0.64
3:LH:170:VAL:N	3:LH:202:ILE:O	2.29	0.64
4:LI:388:TRP:HB3	4:LI:425:LEU:HD11	1.79	0.64
3:MB:218:THR:OG1	3:MB:219:THR:N	2.31	0.64
4:MG:127:ASP:OD1	4:MG:128:LEU:N	2.31	0.64
4:MM:30:ILE:HA	4:MM:36:MET:HE1	1.79	0.64
4:NI:262:TYR:OH	3:NJ:391:ARG:O	2.16	0.64
3:NL:398:TYR:HB3	3:NL:403:MET:HB2	1.80	0.64
3:OJ:250:LEU:O	3:OJ:254:ALA:N	2.28	0.64
4:OK:244:PHE:HB2	4:OK:356:ASN:HD21	1.63	0.64
3:OL:48:ASN:O	3:OL:62:ARG:NH2	2.24	0.64
29:P3:546:GLY:HA3	29:P3:565:HIS:HB2	1.80	0.64
4:PA:143:GLY:HA3	4:PA:147:SER:H	1.61	0.64
4:PI:192:HIS:HA	4:PI:195:LEU:HD23	1.80	0.64
4:PI:262:TYR:OH	3:PJ:391:ARG:O	2.16	0.64
3:PJ:111:GLU:HG2	3:PJ:112:LEU:HD12	1.80	0.64
3:RB:12:CYS:HB3	39:RB:501:GTP:H5'	1.79	0.64
3:RH:182:PRO:HB2	3:RH:388:MET:HE1	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:RK:104:ALA:HB1	4:RK:413:MET:HE3	1.78	0.64
4:SI:127:ASP:OD1	4:SI:128:LEU:N	2.31	0.64
3:TL:245:GLN:HE22	4:TM:15:GLN:HE22	1.46	0.64
3:TL:359:ARG:NH2	36:Z:287:GLU:OE2	2.30	0.64
4:TM:192:HIS:HA	4:TM:195:LEU:HD23	1.79	0.64
4:TM:358:GLN:NE2	4:TM:359:PRO:O	2.30	0.64
3:UB:107:THR:OG1	3:UB:401:GLU:OE2	2.15	0.64
4:UE:338:LYS:HZ2	4:UE:340:THR:H	1.46	0.64
3:UJ:132:GLY:HA2	3:UJ:162:ARG:HB3	1.79	0.64
4:UK:396:ASP:OD1	4:UK:397:LEU:N	2.31	0.64
3:UL:278:SER:HA	3:UL:281:TYR:HB2	1.80	0.64
4:VC:127:ASP:OD1	4:VC:128:LEU:N	2.31	0.64
4:VC:204:VAL:HG23	4:VC:302:MET:HG3	1.78	0.64
3:WD:130:LEU:HB2	3:WD:162:ARG:HH11	1.63	0.64
3:WH:412:GLU:OE1	3:WH:416:ASN:ND2	2.29	0.64
3:WJ:46:ARG:HH12	4:WK:73:THR:HG23	1.62	0.64
3:WJ:235:GLY:O	3:WJ:238:THR:OG1	2.15	0.64
34:XD:71:ILE:HG22	34:XD:73:LEU:H	1.63	0.64
34:XE:25:TRP:CZ3	34:XE:61:CYS:HB3	2.33	0.64
35:XL:69:LEU:HA	35:XL:79:ALA:H	1.61	0.64
37:YH:41:ARG:NH1	37:YH:48:GLN:OE1	2.31	0.64
3:AD:324:LYS:HE2	4:AE:222:PRO:HG2	1.80	0.63
4:AE:52:PHE:HZ	4:AE:239:THR:HB	1.63	0.63
4:AE:214:ARG:NH2	26:N2:87:LYS:O	2.31	0.63
3:AF:246:LEU:HB2	3:AF:352:ALA:HB1	1.79	0.63
3:AJ:374:ILE:HA	3:AJ:377:LEU:HD13	1.79	0.63
3:AL:324:LYS:HD2	4:AM:221:ARG:HA	1.78	0.63
5:B1:365:ALA:O	5:B1:369:HIS:ND1	2.28	0.63
5:B7:43:ARG:O	5:B7:46:ARG:HG2	1.98	0.63
3:BB:141:GLY:HA3	39:BB:501:GTP:H5"	1.80	0.63
4:BG:50:ASN:O	4:BG:64:ARG:NH1	2.31	0.63
4:BI:216:ASN:ND2	4:BI:275:VAL:O	2.31	0.63
4:BI:245:ASP:O	4:BI:356:ASN:ND2	2.31	0.63
3:BJ:211:CYS:HA	3:BJ:215:LEU:HB2	1.80	0.63
7:C3:275:ARG:NH1	7:C3:276:ASN:O	2.31	0.63
7:C7:121:ARG:HH21	10:E2:168:PRO:HD2	1.63	0.63
7:C8:472:LYS:O	7:C8:475:SER:OG	2.16	0.63
7:C9:214:GLU:HA	7:C9:217:LYS:HE2	1.81	0.63
6:D:152:ALA:HB1	6:D:169:ILE:HG12	1.80	0.63
8:D4:341:GLN:NE2	8:D4:345:ASP:OD1	2.30	0.63
3:DB:350:LYS:HE3	4:DC:181:VAL:H	1.61	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DD:32:PRO:O	3:DD:83:GLN:NE2	2.31	0.63
4:DG:70:LEU:HA	4:DG:95:GLY:HA3	1.80	0.63
4:DG:122:ILE:O	4:DG:126:ALA:N	2.31	0.63
4:DG:316:CYS:N	4:DG:378:LEU:O	2.27	0.63
3:EF:117:LEU:HD11	3:EF:154:LYS:HD2	1.81	0.63
3:EH:419:VAL:HG12	3:EH:423:GLN:HE22	1.62	0.63
3:EJ:4:ILE:HD11	3:EJ:131:GLN:HB2	1.81	0.63
4:EK:32:PRO:O	4:EK:85:GLN:NE2	2.31	0.63
11:F5:290:VAL:HG22	11:F6:407:LEU:HB2	1.79	0.63
4:FG:245:ASP:O	4:FG:356:ASN:ND2	2.30	0.63
3:FL:292:GLN:O	3:FL:298:ASN:ND2	2.28	0.63
13:G1:210:ASP:O	13:G1:214:GLN:NE2	2.31	0.63
13:G2:217:LYS:HG3	13:G2:218:GLU:H	1.64	0.63
14:G6:424:LEU:HD21	14:G6:458:LEU:HB3	1.79	0.63
3:GH:211:CYS:HA	3:GH:215:LEU:HB2	1.79	0.63
4:GI:208:ALA:H	4:GI:304:LYS:HZ1	1.46	0.63
4:HA:1:MET:SD	4:HA:2:ARG:N	2.71	0.63
4:HA:386:GLU:OE1	4:HA:390:ARG:NH1	2.15	0.63
4:HG:326:LYS:HE3	3:HH:219:THR:HA	1.79	0.63
3:HJ:141:GLY:HA3	39:HJ:501:GTP:H5”	1.80	0.63
4:JI:192:HIS:HA	4:JI:195:LEU:HD23	1.80	0.63
21:K2:156:ARG:NH2	4:KC:414:GLU:OE2	2.31	0.63
3:KJ:374:ILE:HG23	3:KJ:377:LEU:HD12	1.80	0.63
4:LC:223:THR:OG1	4:LC:225:THR:OG1	2.13	0.63
4:LE:226:ASN:ND2	4:LE:367:ASP:OD2	2.31	0.63
4:LG:127:ASP:OD1	4:LG:128:LEU:N	2.31	0.63
4:LI:120:ASP:OD1	4:LI:123:ARG:NH1	2.31	0.63
4:LK:396:ASP:OD1	4:LK:397:LEU:N	2.31	0.63
4:MC:102:ASN:ND2	4:MC:411:GLU:OE2	2.30	0.63
3:MH:309:ARG:N	3:MH:372:THR:OG1	2.27	0.63
3:NB:302:ALA:HB1	3:NB:377:LEU:HD11	1.80	0.63
4:NE:205:ASP:OD2	4:NE:304:LYS:NZ	2.29	0.63
4:NG:127:ASP:OD1	4:NG:128:LEU:N	2.31	0.63
4:NI:115:VAL:HG21	4:NI:156:ARG:HE	1.64	0.63
3:NL:2:ARG:HB3	3:NL:131:GLN:NE2	2.14	0.63
29:P1:390:ILE:HG21	29:P1:432:ILE:HD13	1.78	0.63
29:P2:470:LYS:HD2	29:P2:475:GLU:HB2	1.79	0.63
3:PB:250:LEU:O	3:PB:254:ALA:N	2.28	0.63
3:PF:419:VAL:HG12	3:PF:423:GLN:HE22	1.61	0.63
3:PH:100:ASN:HB3	3:PH:103:LYS:HB2	1.79	0.63
3:PH:130:LEU:HB2	3:PH:162:ARG:HH11	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PH:309:ARG:H	3:PH:372:THR:HG1	1.43	0.63
3:PL:156:ARG:NH1	3:PL:164:MET:SD	2.71	0.63
4:PM:53:PHE:O	4:PM:64:ARG:NH1	2.31	0.63
4:PM:207:GLU:HB2	4:PM:304:LYS:HZ1	1.62	0.63
30:Q1:1405:LEU:HD21	30:Q1:1440:LEU:HB3	1.80	0.63
30:Q3:1473:ASP:OD1	30:Q3:1476:LYS:NZ	2.27	0.63
3:QB:107:THR:OG1	3:QB:401:GLU:OE2	2.15	0.63
3:QD:3:GLU:HG2	3:QD:130:LEU:HD23	1.80	0.63
3:QD:412:GLU:OE1	3:QD:416:ASN:ND2	2.28	0.63
4:QK:88:HIS:HB3	4:QK:91:GLN:HB2	1.81	0.63
3:QL:372:THR:HG21	3:QL:426:GLN:HG3	1.80	0.63
3:RB:346:PRO:HD2	4:RC:398:MET:HE1	1.79	0.63
3:RD:311:LEU:HD13	3:RD:342:VAL:HG21	1.80	0.63
3:RF:317:PHE:O	3:RF:354:CYS:N	2.27	0.63
4:RG:396:ASP:OD1	4:RG:397:LEU:N	2.31	0.63
4:SG:127:ASP:OD1	4:SG:128:LEU:N	2.31	0.63
3:SL:60:VAL:HG23	3:SL:86:ARG:HH11	1.63	0.63
4:SM:127:ASP:OD1	4:SM:128:LEU:N	2.31	0.63
4:TC:208:ALA:H	4:TC:304:LYS:HZ1	1.46	0.63
4:TE:127:ASP:OD1	4:TE:128:LEU:N	2.31	0.63
4:UA:295:CYS:HB2	4:UA:377:MET:HE3	1.80	0.63
3:UJ:139:LEU:HD21	3:UJ:170:VAL:HG22	1.79	0.63
4:UK:127:ASP:OD1	4:UK:128:LEU:N	2.32	0.63
4:VA:172:TYR:N	4:VA:204:VAL:O	2.30	0.63
4:WI:192:HIS:HA	4:WI:195:LEU:HD23	1.79	0.63
3:WJ:374:ILE:HA	3:WJ:377:LEU:HD13	1.80	0.63
37:YR:136:GLY:O	37:YR:140:LEU:N	2.29	0.63
1:A:192:GLU:HA	1:A:195:LEU:HD12	1.80	0.63
2:A1:160:GLN:HG2	2:A1:238:LEU:HD12	1.79	0.63
4:AC:88:HIS:CE1	4:AC:121:ARG:HH22	2.16	0.63
3:AF:235:GLY:O	3:AF:238:THR:OG1	2.15	0.63
4:AK:396:ASP:OD1	4:AK:397:LEU:N	2.31	0.63
3:AL:385:PHE:HB3	3:AL:408:PHE:HZ	1.62	0.63
5:B3:167:GLU:O	5:B3:170:GLN:NE2	2.30	0.63
3:BB:216:LYS:O	3:BB:276:ARG:NH2	2.30	0.63
3:BB:374:ILE:HA	3:BB:377:LEU:HD13	1.80	0.63
3:BF:322:SER:N	3:BF:325:GLU:OE2	2.31	0.63
3:BJ:111:GLU:HG2	3:BJ:112:LEU:HD12	1.80	0.63
7:C2:407:PRO:HD2	7:C2:410:GLU:OE1	1.99	0.63
7:C7:415:MET:HE3	7:C7:419:ARG:HB2	1.79	0.63
3:CF:269:GLY:N	3:CF:367:PHE:O	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CF:328:GLU:OE2	3:CF:329:GLN:NE2	2.31	0.63
6:D:393:LEU:O	32:T:334:ARG:NH2	2.31	0.63
8:D2:215:TRP:HA	8:D2:218:LYS:HE2	1.79	0.63
4:DA:30:ILE:HA	4:DA:36:MET:HE1	1.79	0.63
4:DE:83:TYR:HB3	4:DE:86:LEU:HD12	1.80	0.63
3:DH:276:ARG:HB3	13:G2:285:ARG:HE	1.63	0.63
4:EE:415:GLU:OE1	4:EE:419:SER:OG	2.15	0.63
4:EG:269:LEU:N	4:EG:379:SER:O	2.25	0.63
4:EI:12:ALA:HB2	39:EI:501:GTP:H5"	1.80	0.63
3:EJ:84:ILE:O	3:EJ:86:ARG:NH1	2.32	0.63
11:F3:254:ILE:HD12	11:F3:257:LYS:HE3	1.80	0.63
3:FD:173:PRO:O	3:FD:380:ARG:NH2	2.31	0.63
3:FD:322:SER:OG	3:FD:324:LYS:NZ	2.31	0.63
4:FE:30:ILE:HA	4:FE:36:MET:HE1	1.79	0.63
4:FE:245:ASP:O	4:FE:356:ASN:ND2	2.31	0.63
3:FF:296:ALA:HA	3:FF:299:MET:HE3	1.81	0.63
11:Fb:355:ASN:OD1	11:Fb:358:GLN:NE2	2.31	0.63
11:Fc:360:GLN:HA	11:Fc:363:LYS:HD2	1.80	0.63
11:Fe:197:ASN:HA	11:Fe:200:LYS:HD2	1.80	0.63
11:Fj:355:ASN:OD1	11:Fj:356:LYS:N	2.31	0.63
13:G2:412:MET:HG3	13:G2:413:LEU:HG	1.80	0.63
14:G5:275:MET:HE1	14:G5:278:PHE:HA	1.79	0.63
14:G6:587:MET:HE2	14:G6:592:GLY:HA2	1.78	0.63
4:GI:234:ILE:HD11	4:GI:272:TYR:HB2	1.81	0.63
3:GJ:392:LYS:HB2	3:GJ:395:LEU:HD13	1.79	0.63
15:H4:289:ILE:HD12	15:H4:315:ARG:HH22	1.61	0.63
3:HB:372:THR:HG21	3:HB:426:GLN:HG3	1.78	0.63
4:HG:386:GLU:O	4:HG:390:ARG:N	2.24	0.63
3:HH:379:LYS:NZ	3:HH:383:GLU:OE2	2.30	0.63
4:HI:127:ASP:OD1	4:HI:128:LEU:N	2.32	0.63
4:IA:20:CYS:O	4:IA:24:TYR:N	2.28	0.63
4:IA:49:PHE:HB2	4:IA:53:PHE:HB2	1.80	0.63
4:IC:146:GLY:N	39:IC:501:GTP:O2B	2.31	0.63
3:ID:322:SER:OG	3:ID:324:LYS:NZ	2.30	0.63
3:IL:84:ILE:O	3:IL:86:ARG:NH1	2.31	0.63
3:IL:235:GLY:O	3:IL:238:THR:OG1	2.16	0.63
4:IM:396:ASP:OD1	4:IM:397:LEU:N	2.31	0.63
4:JG:89:PRO:HD2	4:KG:280:LYS:HZ3	1.63	0.63
3:JJ:55:THR:HG23	3:KJ:283:ALA:HA	1.81	0.63
21:K3:405:VAL:HG21	24:M3:60:TRP:CE3	2.33	0.63
21:K4:250:GLN:HE22	21:K4:252:LEU:HD13	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KD:174:LYS:HG3	3:KD:175:VAL:HG12	1.79	0.63
4:KG:271:THR:O	4:KG:377:MET:N	2.21	0.63
4:LI:101:ASN:HA	4:LI:144:GLY:HA2	1.79	0.63
4:LK:127:ASP:OD1	4:LK:128:LEU:N	2.32	0.63
4:MC:392:ASP:OD1	4:MC:393:HIS:N	2.32	0.63
4:ME:269:LEU:N	4:ME:379:SER:O	2.25	0.63
4:MI:226:ASN:ND2	4:MI:367:ASP:OD2	2.31	0.63
4:NA:358:GLN:NE2	4:NA:359:PRO:O	2.30	0.63
28:O2:32:ILE:HD11	28:O2:35:HIS:CD2	2.33	0.63
3:OF:16:ILE:HD13	3:OF:226:ASN:HD22	1.62	0.63
3:RH:392:LYS:HB3	3:RH:395:LEU:HD13	1.81	0.63
4:RK:295:CYS:HB2	4:RK:377:MET:HE3	1.80	0.63
4:SE:104:ALA:HB1	4:SE:413:MET:HE3	1.79	0.63
3:TF:379:LYS:NZ	3:TF:383:GLU:OE2	2.31	0.63
3:TJ:289:LEU:O	3:TJ:293:MET:N	2.29	0.63
3:TJ:289:LEU:HD13	3:TJ:363:MET:HE2	1.79	0.63
3:TN:278:SER:HA	3:TN:281:TYR:HB2	1.81	0.63
4:UG:127:ASP:OD1	4:UG:128:LEU:N	2.31	0.63
4:VA:127:ASP:OD1	4:VA:128:LEU:N	2.31	0.63
4:VC:271:THR:HB	4:VC:377:MET:HE2	1.80	0.63
3:VD:330:MET:HE3	3:VD:331:LEU:HD22	1.80	0.63
3:WJ:170:VAL:N	3:WJ:202:ILE:O	2.31	0.63
4:WK:216:ASN:HB2	4:WK:276:ILE:HD12	1.80	0.63
34:XG:78:MET:H	34:XG:132:ILE:HB	1.62	0.63
35:XI:130:ILE:HG13	35:XI:131:PRO:HD3	1.80	0.63
37:YR:41:ARG:HH12	37:YR:45:SER:H	1.46	0.63
37:YT:57:CYS:O	37:YT:63:ARG:NH1	2.31	0.63
3:AD:322:SER:N	3:AD:325:GLU:OE2	2.30	0.63
4:AE:30:ILE:HA	4:AE:36:MET:HE1	1.80	0.63
4:AG:236:SER:O	4:AG:243:ARG:NH2	2.29	0.63
3:AJ:17:GLY:HA2	3:AJ:20:PHE:HB3	1.80	0.63
3:AJ:73:MET:HA	3:AJ:76:VAL:HG22	1.80	0.63
4:AK:248:LEU:HD23	4:AK:355:ILE:HG22	1.80	0.63
3:AL:117:LEU:HD11	3:AL:154:LYS:HD2	1.80	0.63
5:B3:356:LEU:O	5:B3:360:GLN:HG2	1.98	0.63
5:B4:214:THR:OG1	5:B4:217:GLN:NE2	2.32	0.63
5:B8:199:ILE:HD12	5:B9:312:LYS:HG3	1.78	0.63
4:BC:388:TRP:HB3	4:BC:425:LEU:HD11	1.80	0.63
4:BI:236:SER:O	4:BI:243:ARG:NH2	2.29	0.63
4:BK:70:LEU:HD13	4:BK:95:GLY:HA3	1.81	0.63
7:C4:232:ARG:O	7:C4:236:HIS:ND1	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CB:54:ALA:HB3	3:CB:58:LYS:HB2	1.80	0.63
3:CB:174:LYS:HG3	3:CB:175:VAL:HG12	1.80	0.63
3:CD:170:VAL:N	3:CD:202:ILE:O	2.24	0.63
4:CG:11:GLN:HB2	4:CG:74:VAL:HG21	1.81	0.63
4:CI:67:PHE:O	4:CI:93:ILE:N	2.32	0.63
7:Ca:403:ARG:HE	7:Ca:417:GLN:HE21	1.46	0.63
6:D:25:ARG:HG3	6:D:46:LEU:HD12	1.79	0.63
8:D7:315:LEU:HD23	8:D7:318:LEU:HD12	1.80	0.63
3:DB:39:ASP:OD1	3:DB:43:GLN:NE2	2.32	0.63
39:DJ:501:GTP:O3G	39:DJ:501:GTP:O3'	2.15	0.63
10:E1:76:TRP:HA	10:E1:79:LEU:HD23	1.80	0.63
4:EA:207:GLU:HB2	4:EA:304:LYS:HZ1	1.64	0.63
3:ED:247:ASN:HB3	3:ED:252:LYS:HG2	1.80	0.63
4:EG:348:PRO:HD3	3:EH:388:MET:HE1	1.79	0.63
11:F3:90:TYR:HB3	14:G5:560:ARG:NE	2.13	0.63
3:FB:132:GLY:HA2	3:FB:162:ARG:HB3	1.81	0.63
3:FD:292:GLN:O	3:FD:298:ASN:ND2	2.31	0.63
3:FF:7:LEU:HB2	3:FF:135:LEU:HG	1.80	0.63
4:FI:203:MET:HE1	4:FI:267:PHE:HB3	1.79	0.63
11:Fk:319:GLU:O	11:Fk:323:HIS:ND1	2.32	0.63
11:Fk:449:SER:O	11:Fk:453:HIS:ND1	2.30	0.63
13:G1:217:LYS:HG3	13:G1:218:GLU:H	1.63	0.63
3:GF:372:THR:HG21	3:GF:426:GLN:HG3	1.79	0.63
3:GL:187:LEU:O	3:GL:191:GLN:NE2	2.31	0.63
3:GL:412:GLU:OE1	3:GL:416:ASN:ND2	2.30	0.63
4:HC:2:ARG:HA	4:HC:133:GLN:HE22	1.62	0.63
3:HF:130:LEU:HB2	3:HF:162:ARG:HH11	1.62	0.63
3:HF:139:LEU:HD21	3:HF:170:VAL:HG22	1.80	0.63
4:HG:1:MET:SD	4:HG:2:ARG:N	2.70	0.63
3:HL:55:THR:O	3:HL:58:LYS:NZ	2.29	0.63
3:IF:282:ARG:NH2	3:IF:292:GLN:OE1	2.24	0.63
3:IL:170:VAL:N	3:IL:202:ILE:O	2.25	0.63
3:JB:350:LYS:HE3	4:JC:181:VAL:H	1.64	0.63
4:JC:273:ALA:HB2	4:JC:295:CYS:HB3	1.80	0.63
4:JE:371:VAL:HG11	4:JE:374:ALA:HB2	1.79	0.63
3:JF:250:LEU:O	3:JF:254:ALA:N	2.29	0.63
4:JK:107:HIS:HA	4:JK:152:LEU:HD23	1.80	0.63
21:K1:398:VAL:HG13	21:K1:409:LEU:HD21	1.81	0.63
4:KE:1:MET:SD	4:KE:2:ARG:N	2.70	0.63
4:KI:273:ALA:HB2	4:KI:295:CYS:HB3	1.79	0.63
3:KJ:302:ALA:HB1	3:KJ:377:LEU:HD21	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:KK:208:ALA:H	4:KK:304:LYS:HZ1	1.46	0.63
4:LC:9:VAL:HG11	4:LC:150:ALA:HB2	1.79	0.63
3:LF:182:PRO:HB2	3:LF:388:MET:HE1	1.79	0.63
3:LF:322:SER:N	3:LF:325:GLU:OE2	2.30	0.63
3:LH:317:PHE:O	3:LH:354:CYS:N	2.28	0.63
4:MC:88:HIS:CE1	4:MC:121:ARG:HH22	2.15	0.63
4:MG:220:GLU:HG2	4:MG:221:ARG:HG2	1.80	0.63
3:MJ:170:VAL:N	3:MJ:202:ILE:O	2.28	0.63
4:NK:91:GLN:HG3	4:NK:121:ARG:HH21	1.64	0.63
3:NL:305:PRO:HA	3:NL:373:ALA:HB2	1.81	0.63
29:P1:470:LYS:HD2	29:P1:475:GLU:HB2	1.79	0.63
3:PB:372:THR:HB	3:PB:375:GLN:HE22	1.63	0.63
4:PC:46:ASP:OD1	4:PC:50:ASN:ND2	2.32	0.63
3:PH:140:GLY:HA2	3:PH:181:GLU:OE2	1.99	0.63
3:PL:84:ILE:O	3:PL:86:ARG:NH1	2.32	0.63
30:Q1:1444:GLN:HA	30:Q1:1447:ILE:HG22	1.80	0.63
30:Q2:1508:ASN:HA	30:Q2:1511:LEU:HB2	1.81	0.63
4:QC:154:MET:HE3	4:QC:194:THR:HG22	1.79	0.63
3:QH:309:ARG:H	3:QH:372:THR:HG1	1.46	0.63
4:QK:332:ILE:HA	4:QK:335:ILE:HD12	1.79	0.63
4:RE:6:SER:HA	4:RE:136:LEU:HB2	1.81	0.63
4:RI:271:THR:HA	4:RI:302:MET:HE1	1.80	0.63
3:RJ:46:ARG:HH12	4:RK:73:THR:HG23	1.64	0.63
4:SE:192:HIS:HA	4:SE:195:LEU:HD23	1.81	0.63
4:SI:172:TYR:HB2	4:SI:203:MET:HB2	1.80	0.63
4:SM:67:PHE:HB2	4:SM:92:LEU:HD13	1.81	0.63
3:TD:309:ARG:HE	3:TD:426:GLN:HE21	1.45	0.63
4:TE:34:GLY:HA2	4:TE:86:LEU:HD21	1.81	0.63
4:TK:108:TYR:O	4:TK:112:LYS:NZ	2.24	0.63
4:TK:262:TYR:OH	3:TL:391:ARG:O	2.16	0.63
4:TM:396:ASP:OD1	4:TM:397:LEU:N	2.31	0.63
3:UJ:33:THR:O	3:UJ:58:LYS:NZ	2.31	0.63
3:VH:54:ALA:HB3	3:VH:58:LYS:HB3	1.79	0.63
3:VL:48:ASN:O	3:VL:62:ARG:NH2	2.26	0.63
3:WB:328:GLU:OE1	3:WB:332:ASN:ND2	2.31	0.63
4:WE:53:PHE:O	4:WE:64:ARG:NH1	2.31	0.63
4:WK:295:CYS:HB2	4:WK:377:MET:HE3	1.79	0.63
34:XB:3:LYS:HE3	35:XI:62:ARG:HG2	1.80	0.63
34:XC:16:SER:OG	34:XC:163:ARG:NH1	2.29	0.63
37:YC:33:ARG:HH21	37:YC:43:ILE:HD13	1.63	0.63
37:YO:136:GLY:O	37:YO:140:LEU:N	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:YW:80:CYS:HA	37:YW:83:PHE:HD2	1.62	0.63
3:AB:77:ARG:O	3:AB:77:ARG:NH1	2.28	0.63
4:AC:273:ALA:HB2	4:AC:295:CYS:HB3	1.79	0.63
4:AE:88:HIS:HB3	4:AE:91:GLN:HB2	1.80	0.63
4:AE:88:HIS:CE1	4:AE:121:ARG:HH22	2.16	0.63
3:AH:424:GLN:HG3	35:XK:183:ILE:HB	1.80	0.63
4:AK:402:ARG:HE	35:XL:233:PRO:HG2	1.63	0.63
3:AL:271:ALA:HB1	3:AL:272:PRO:HD2	1.80	0.63
5:B1:281:TRP:NE1	5:B1:285:ASN:HD21	1.96	0.63
5:B2:7:LYS:NZ	8:D5:329:ILE:HB	2.13	0.63
4:BE:216:ASN:ND2	4:BE:275:VAL:O	2.31	0.63
3:BF:246:LEU:HB2	3:BF:352:ALA:HB1	1.79	0.63
4:BI:33:ASP:OD1	4:BI:34:GLY:N	2.31	0.63
7:C2:297:PRO:HA	7:C2:300:TRP:HD1	1.63	0.63
7:C9:202:ARG:HH11	7:C9:205:ARG:HE	1.44	0.63
4:CE:192:HIS:HA	4:CE:195:LEU:HD23	1.79	0.63
3:CJ:12:CYS:HA	39:CJ:501:GTP:N2	2.13	0.63
4:CM:46:ASP:OD1	4:CM:50:ASN:ND2	2.27	0.63
7:Ca:214:GLU:O	7:Ca:218:GLU:HG2	1.97	0.63
6:D:25:ARG:NH1	6:D:48:TYR:OH	2.32	0.63
6:D:25:ARG:HA	6:D:49:PRO:HD3	1.79	0.63
8:D9:263:ASP:HA	8:D9:266:LEU:HD12	1.81	0.63
4:DA:192:HIS:HA	4:DA:195:LEU:HD23	1.80	0.63
4:DK:88:HIS:HB3	4:DK:91:GLN:HB2	1.78	0.63
10:E2:182:ASP:O	10:E2:185:GLN:NE2	2.31	0.63
3:EF:48:ASN:O	3:EF:62:ARG:NH2	2.25	0.63
3:EF:211:CYS:HA	3:EF:215:LEU:HB2	1.81	0.63
3:EH:324:LYS:NZ	4:EI:222:PRO:O	2.23	0.63
4:EK:12:ALA:HB1	39:EK:501:GTP:C2	2.33	0.63
3:EL:216:LYS:HB3	3:EL:276:ARG:NH2	2.14	0.63
11:F2:105:ASN:HD22	11:Fk:443:LEU:HD11	1.62	0.63
3:FH:28:HIS:HD2	3:FH:43:GLN:HB2	1.64	0.63
11:Fa:129:GLN:HA	11:Fa:132:HIS:CD2	2.33	0.63
11:Fc:214:ASN:OD1	11:Fc:335:GLN:NE2	2.31	0.63
14:G4:262:ILE:H	14:G4:279:LEU:HB3	1.63	0.63
14:G5:591:MET:H	14:G5:591:MET:HE2	1.64	0.63
4:GA:192:HIS:HA	4:GA:195:LEU:HD23	1.80	0.63
15:H6:216:LYS:HB2	15:H6:237:ARG:HH22	1.63	0.63
4:HA:127:ASP:OD1	4:HA:128:LEU:N	2.31	0.63
3:HB:214:THR:HG21	3:HB:273:LEU:HB3	1.79	0.63
3:HD:11:GLN:HE21	39:HD:501:GTP:H3'	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HG:46:ASP:OD1	4:HG:50:ASN:ND2	2.25	0.63
3:HH:280:GLN:OE1	3:HH:280:GLN:N	2.31	0.63
4:HI:316:CYS:N	4:HI:378:LEU:O	2.30	0.63
3:HL:12:CYS:HA	39:HL:501:GTP:N2	2.12	0.63
3:IJ:170:VAL:N	3:IJ:202:ILE:O	2.28	0.63
4:IK:223:THR:OG1	4:IK:225:THR:OG1	2.14	0.63
3:IL:372:THR:HG21	3:IL:426:GLN:HG3	1.79	0.63
18:J:69:ARG:HH22	18:J:73:LYS:HD3	1.63	0.63
21:K2:270:PRO:HA	37:YD:160:ARG:HE	1.64	0.63
3:KB:7:LEU:HB2	3:KB:135:LEU:HG	1.79	0.63
4:KE:245:ASP:O	4:KE:356:ASN:ND2	2.30	0.63
22:L2:38:ASP:HA	22:L2:41:LYS:HG2	1.80	0.63
4:LE:216:ASN:ND2	4:LE:275:VAL:O	2.31	0.63
4:LG:21:TRP:HA	4:LG:24:TYR:HB2	1.80	0.63
3:MB:174:LYS:HG3	3:MB:175:VAL:HG12	1.81	0.63
4:MC:245:ASP:O	4:MC:356:ASN:ND2	2.32	0.63
4:MC:254:GLU:O	4:MC:258:ASN:ND2	2.21	0.63
26:N3:159:ARG:HA	26:N3:164:GLY:O	1.98	0.63
4:NE:264:ARG:O	4:NE:266:HIS:ND1	2.31	0.63
28:O2:38:TYR:CE2	30:Q2:1414:LEU:HA	2.33	0.63
3:OB:170:VAL:N	3:OB:202:ILE:O	2.27	0.63
4:OG:84:ARG:NH2	37:YK:125:LEU:O	2.32	0.63
4:OG:264:ARG:O	4:OG:266:HIS:ND1	2.30	0.63
4:OG:273:ALA:HB2	4:OG:295:CYS:HB3	1.80	0.63
3:PB:398:TYR:HB3	3:PB:403:MET:HB2	1.79	0.63
3:PF:278:SER:HA	3:PF:281:TYR:HB2	1.78	0.63
4:PK:396:ASP:OD1	4:PK:397:LEU:N	2.32	0.63
3:QF:398:TYR:HB3	3:QF:403:MET:HB2	1.79	0.63
27:R:335:ARG:O	27:R:335:ARG:NH1	2.31	0.63
4:RC:192:HIS:HA	4:RC:195:LEU:HD23	1.81	0.63
4:RM:144:GLY:N	39:RM:501:GTP:O2B	2.31	0.63
3:SB:33:THR:O	3:SB:58:LYS:NZ	2.31	0.63
4:SC:236:SER:O	4:SC:243:ARG:NH2	2.30	0.63
3:SD:278:SER:HA	3:SD:281:TYR:HB2	1.80	0.63
4:SE:1:MET:SD	4:SE:2:ARG:N	2.71	0.63
4:SI:271:THR:HA	4:SI:302:MET:HE1	1.80	0.63
4:TC:30:ILE:HA	4:TC:36:MET:HE1	1.79	0.63
4:TC:321:GLY:N	4:TC:356:ASN:O	2.24	0.63
3:TN:77:ARG:O	3:TN:77:ARG:NH1	2.29	0.63
4:UA:88:HIS:HB3	4:UA:91:GLN:HB2	1.79	0.63
3:UF:322:SER:N	3:UF:325:GLU:OE2	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UG:49:PHE:O	4:UG:53:PHE:N	2.30	0.63
4:UG:108:TYR:O	4:UG:112:LYS:NZ	2.25	0.63
3:UJ:289:LEU:O	3:UJ:293:MET:N	2.28	0.63
4:UK:30:ILE:HA	4:UK:36:MET:HE1	1.81	0.63
4:VC:388:TRP:HB3	4:VC:425:LEU:HD11	1.79	0.63
4:VE:9:VAL:HG11	4:VE:150:ALA:HB2	1.80	0.63
4:VI:127:ASP:OD1	4:VI:128:LEU:N	2.31	0.63
3:VJ:7:LEU:HB2	3:VJ:135:LEU:HG	1.80	0.63
3:WD:374:ILE:HA	3:WD:377:LEU:HD13	1.81	0.63
4:WE:244:PHE:HB2	4:WE:356:ASN:HD21	1.64	0.63
37:YD:41:ARG:HH12	37:YD:45:SER:H	1.44	0.63
37:YG:57:CYS:O	37:YG:63:ARG:NH1	2.31	0.63
37:YH:15:TYR:HA	37:YH:18:PHE:HB3	1.80	0.63
37:YN:82:HIS:CE1	37:YN:86:LEU:HD11	2.34	0.63
3:AH:322:SER:N	3:AH:325:GLU:OE2	2.30	0.63
3:AJ:398:TYR:HB3	3:AJ:403:MET:HB2	1.81	0.63
4:BE:226:ASN:HA	4:BE:229:ARG:HD2	1.80	0.63
3:BF:211:CYS:HA	3:BF:215:LEU:HB2	1.81	0.63
4:BM:68:VAL:HG21	4:BM:149:PHE:HE2	1.63	0.63
6:C:261:CYS:HB2	6:C:331:ILE:HD11	1.79	0.63
3:CB:392:LYS:HB2	3:CB:395:LEU:HD13	1.79	0.63
4:CC:98:ASP:O	4:CC:105:ARG:NH2	2.30	0.63
3:CL:346:PRO:HD2	4:CM:398:MET:HE1	1.80	0.63
8:D2:111:HIS:HA	8:D2:114:LYS:HD3	1.80	0.63
3:DJ:139:LEU:HD21	3:DJ:170:VAL:HG22	1.80	0.63
10:E1:9:THR:HG22	10:E1:142:ARG:HH12	1.62	0.63
10:E3:28:ARG:HE	10:E3:29:ASN:H	1.47	0.63
39:EH:501:GTP:O3G	39:EH:501:GTP:O3'	2.15	0.63
4:EK:388:TRP:HB3	4:EK:425:LEU:HD11	1.81	0.63
11:F2:331:GLN:HA	11:F2:334:LYS:HE3	1.81	0.63
11:F7:141:ASN:OD1	11:F7:142:LEU:N	2.32	0.63
11:F9:405:VAL:HG13	11:Fa:296:TRP:HE1	1.63	0.63
4:FE:208:ALA:H	4:FE:304:LYS:HZ1	1.46	0.63
3:FF:170:VAL:N	3:FF:202:ILE:O	2.31	0.63
14:G5:450:ARG:HB2	14:G5:467:GLU:HG2	1.80	0.63
14:G6:202:GLU:O	14:G6:206:PHE:N	2.30	0.63
14:G6:583:ARG:HH22	14:G6:725:PRO:HG3	1.64	0.63
14:G6:638:PHE:O	14:G6:642:CYS:N	2.28	0.63
4:GG:144:GLY:N	39:GG:501:GTP:O2B	2.30	0.63
3:GH:269:GLY:HA2	3:GH:300:MET:HE1	1.78	0.63
4:GI:135:PHE:HD2	4:GI:166:LYS:HG3	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HC:46:ASP:OD1	4:HC:50:ASN:ND2	2.32	0.63
4:HE:49:PHE:O	4:HE:53:PHE:N	2.31	0.63
4:HG:24:TYR:O	4:HG:28:HIS:ND1	2.27	0.63
3:HH:83:GLN:O	3:HH:86:ARG:NH2	2.32	0.63
3:HJ:257:MET:HG3	3:HJ:258:VAL:HG23	1.80	0.63
3:HL:357:PRO:HB3	3:HL:362:LYS:HA	1.80	0.63
3:ID:292:GLN:O	3:ID:298:ASN:ND2	2.32	0.63
19:J1:66:GLN:HE22	19:J1:68:VAL:HB	1.64	0.63
4:JA:49:PHE:O	4:JA:53:PHE:N	2.32	0.63
4:JA:338:LYS:HZ2	4:JA:340:THR:H	1.45	0.63
4:JC:419:SER:HA	4:JC:422:ARG:HE	1.63	0.63
4:JI:285:GLN:HE22	4:JI:287:SER:HB3	1.61	0.63
4:JK:127:ASP:OD1	4:JK:128:LEU:N	2.32	0.63
20:K:12:MET:HE1	20:K:14:ASN:HB3	1.80	0.63
21:K3:157:GLN:HB3	21:K3:314:MET:HG3	1.80	0.63
4:KA:206:ASN:HA	4:KA:209:ILE:HD12	1.80	0.63
3:KL:424:GLN:HG3	31:R3:120:TYR:HD2	1.64	0.63
22:L3:106:ILE:O	4:LK:402:ARG:NH2	2.31	0.63
3:LD:216:LYS:O	3:LD:276:ARG:NH2	2.31	0.63
3:LH:211:CYS:HA	3:LH:215:LEU:HB2	1.80	0.63
3:LL:316:VAL:HG22	3:LL:352:ALA:HB3	1.79	0.63
4:MG:32:PRO:O	4:MG:85:GLN:NE2	2.31	0.63
4:MI:161:TYR:O	4:MI:166:LYS:NZ	2.28	0.63
4:NA:32:PRO:O	4:NA:85:GLN:NE2	2.32	0.63
3:NB:33:THR:O	3:NB:58:LYS:NZ	2.32	0.63
3:ND:412:GLU:OE1	3:ND:416:ASN:ND2	2.32	0.63
4:NK:102:ASN:ND2	4:NK:411:GLU:OE2	2.32	0.63
28:O1:80:THR:HG22	28:O1:114:SER:HB3	1.81	0.63
4:OC:395:PHE:HB3	4:OC:422:ARG:HH22	1.64	0.63
4:OE:9:VAL:HA	4:OE:68:VAL:HG23	1.81	0.63
3:OJ:357:PRO:HB3	3:OJ:362:LYS:HA	1.79	0.63
29:P3:15:GLU:HG2	29:P3:615:LYS:HB3	1.79	0.63
29:P3:50:GLN:HG3	29:P3:57:GLN:HG2	1.81	0.63
3:PB:111:GLU:HG2	3:PB:112:LEU:HD12	1.81	0.63
4:PC:53:PHE:O	4:PC:64:ARG:NH1	2.32	0.63
4:PE:236:SER:O	4:PE:243:ARG:NH2	2.30	0.63
4:PG:388:TRP:HB3	4:PG:425:LEU:HD11	1.79	0.63
3:PJ:412:GLU:OE1	3:PJ:416:ASN:ND2	2.31	0.63
4:QI:338:LYS:HZ2	4:QI:340:THR:H	1.47	0.63
4:RG:286:LEU:O	4:RG:373:ARG:NH2	2.24	0.63
3:RL:317:PHE:O	3:RL:354:CYS:N	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:SG:54:SER:HB2	4:SG:62:VAL:HB	1.80	0.63
4:SI:264:ARG:NE	4:SI:431:ASP:OD2	2.32	0.63
4:SI:392:ASP:OD1	4:SI:393:HIS:N	2.32	0.63
3:SL:170:VAL:N	3:SL:202:ILE:O	2.28	0.63
3:TH:309:ARG:H	3:TH:372:THR:HG1	1.46	0.63
4:TI:12:ALA:HB2	39:TI:501:GTP:H5"	1.80	0.63
4:UA:144:GLY:N	39:UA:501:GTP:O2B	2.31	0.63
4:UA:192:HIS:HA	4:UA:195:LEU:HD23	1.79	0.63
4:UC:208:ALA:N	4:UC:304:LYS:HZ1	1.97	0.63
4:UE:50:ASN:O	4:UE:64:ARG:NH1	2.31	0.63
3:UF:84:ILE:O	3:UF:86:ARG:NH1	2.31	0.63
3:UH:252:LYS:O	3:UH:256:ASN:ND2	2.31	0.63
4:UI:216:ASN:HB2	4:UI:276:ILE:HD12	1.79	0.63
4:UK:88:HIS:HB3	4:UK:91:GLN:HB2	1.80	0.63
3:VB:83:GLN:O	3:VB:86:ARG:NH2	2.31	0.63
4:VG:9:VAL:HG22	4:VG:146:GLY:HA2	1.81	0.63
4:WK:225:THR:O	4:WK:229:ARG:NE	2.30	0.63
34:XC:73:LEU:HD22	34:XC:169:ASP:HB3	1.80	0.63
37:YB:114:ARG:NH2	37:YB:133:HIS:O	2.32	0.63
37:YN:159:PRO:HB2	37:YN:161:LYS:HG2	1.80	0.63
37:YQ:41:ARG:NH1	37:YQ:48:GLN:OE1	2.32	0.63
2:A1:83:GLN:HG3	2:A1:232:LEU:HD11	1.81	0.63
2:A3:368:ARG:NH2	2:A4:27:ALA:HB2	2.14	0.63
2:A4:10:ARG:NH1	2:A4:11:PHE:O	2.32	0.63
3:AB:54:ALA:HB3	3:AB:58:LYS:HB3	1.79	0.63
4:AC:306:ASP:OD2	4:AC:309:HIS:ND1	2.31	0.63
3:AF:4:ILE:HD11	3:AF:131:GLN:HB2	1.80	0.63
3:AF:48:ASN:O	3:AF:62:ARG:NH2	2.24	0.63
4:AG:144:GLY:N	39:AG:501:GTP:O2B	2.30	0.63
3:AH:197:ASP:OD1	3:AH:198:GLU:N	2.31	0.63
4:AK:127:ASP:OD1	4:AK:128:LEU:N	2.31	0.63
5:B3:363:LEU:HD23	8:D2:239:GLN:HG2	1.80	0.63
5:B8:223:ARG:O	5:B8:227:ASN:ND2	2.32	0.63
3:BD:170:VAL:N	3:BD:202:ILE:O	2.28	0.63
4:BG:396:ASP:OD1	4:BG:397:LEU:N	2.32	0.63
3:BH:83:GLN:O	3:BH:86:ARG:NH2	2.31	0.63
4:CK:154:MET:HE1	4:CK:197:HIS:HB2	1.79	0.63
7:Cb:394:LYS:HA	7:Cb:397:GLN:HE21	1.64	0.63
8:D7:249:GLU:HG2	8:D7:250:SER:H	1.64	0.63
8:D7:332:GLN:HA	8:D8:78:ARG:HH12	1.63	0.63
8:D7:412:LEU:N	8:D8:63:ARG:HH22	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DB:316:VAL:HG22	3:DB:352:ALA:HB3	1.80	0.63
4:DC:52:PHE:HZ	4:DC:239:THR:HB	1.63	0.63
4:DG:79:ARG:HG2	15:H4:282:ILE:HD11	1.80	0.63
4:DG:285:GLN:HE22	4:DG:287:SER:HB3	1.63	0.63
4:EA:24:TYR:O	4:EA:28:HIS:ND1	2.22	0.63
4:EC:49:PHE:O	4:EC:53:PHE:N	2.30	0.63
3:EF:214:THR:HG21	3:EF:273:LEU:HB3	1.81	0.63
4:EK:236:SER:O	4:EK:243:ARG:NH2	2.29	0.63
11:F2:355:ASN:OD1	11:F2:358:GLN:NE2	2.31	0.63
11:F3:95:TRP:CD1	11:F3:99:ASN:HD21	2.16	0.63
11:F7:254:ILE:HD12	11:F7:257:LYS:HE3	1.81	0.63
4:FE:11:GLN:HB2	4:FE:74:VAL:HG21	1.81	0.63
3:FJ:12:CYS:HA	3:FJ:15:GLN:NE2	2.13	0.63
11:Fg:396:LEU:HA	11:Fg:399:ARG:HD3	1.79	0.63
12:G:69:ARG:NH1	4:JK:46:ASP:O	2.31	0.63
3:GD:323:MET:SD	3:GD:323:MET:N	2.72	0.63
4:GI:262:TYR:OH	3:GJ:391:ARG:O	2.17	0.63
4:HA:60:LYS:HD2	4:IA:283:HIS:HB2	1.80	0.63
3:HF:60:VAL:HG23	3:HF:86:ARG:HH11	1.63	0.63
3:HF:302:ALA:HB1	3:HF:377:LEU:HD21	1.79	0.63
4:HG:49:PHE:HB2	4:HG:53:PHE:HB2	1.78	0.63
4:HK:88:HIS:HE1	4:HK:90:GLU:HG2	1.64	0.63
3:HL:101:TRP:HB2	3:HL:184:ASN:HD22	1.63	0.63
4:IE:140:SER:HB2	4:IE:171:ILE:HG22	1.81	0.63
3:IF:111:GLU:HG2	3:IF:112:LEU:HD12	1.80	0.63
4:JA:127:ASP:OD1	4:JA:128:LEU:N	2.31	0.63
3:KD:64:VAL:HG21	3:KD:120:VAL:HG12	1.79	0.63
4:KI:32:PRO:O	4:KI:85:GLN:NE2	2.30	0.63
3:KL:139:LEU:N	3:KL:168:SER:OG	2.31	0.63
22:L2:161:ARG:O	22:L2:165:VAL:N	2.18	0.63
4:LA:370:LYS:HD3	27:Q:162:TRP:CE3	2.34	0.63
3:LD:372:THR:HB	3:LD:375:GLN:HE22	1.62	0.63
4:LG:30:ILE:HA	4:LG:36:MET:HE1	1.79	0.63
3:MB:271:ALA:HB1	3:MB:272:PRO:HD2	1.81	0.63
3:MF:111:GLU:HG2	3:MF:112:LEU:HD12	1.80	0.63
4:MK:127:ASP:OD1	4:MK:128:LEU:N	2.32	0.63
4:MM:49:PHE:HB2	4:MM:53:PHE:HB2	1.80	0.63
3:NF:16:ILE:HD13	3:NF:226:ASN:HD22	1.63	0.63
3:NH:309:ARG:HE	3:NH:426:GLN:HE21	1.45	0.63
3:NL:269:GLY:HA2	3:NL:300:MET:HE1	1.80	0.63
3:OB:357:PRO:HB3	3:OB:362:LYS:HA	1.78	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:OD:16:ILE:HD13	3:OD:226:ASN:HD22	1.64	0.63
3:OF:132:GLY:HA2	3:OF:162:ARG:HB3	1.80	0.63
4:OG:127:ASP:OD1	4:OG:128:LEU:N	2.32	0.63
4:OG:172:TYR:N	4:OG:204:VAL:O	2.25	0.63
3:OL:309:ARG:HE	3:OL:426:GLN:HE21	1.46	0.63
27:P:82:ARG:O	27:P:86:HIS:ND1	2.28	0.63
29:P2:488:TRP:HE1	29:P2:493:LEU:HD13	1.64	0.63
29:P3:78:TYR:HB3	29:P3:95:LEU:HD11	1.78	0.63
3:PD:250:LEU:O	3:PD:254:ALA:N	2.28	0.63
4:PI:115:VAL:HA	4:PI:118:VAL:HG22	1.81	0.63
4:PK:88:HIS:HB3	4:PK:91:GLN:HB2	1.81	0.63
30:Q2:1425:LYS:HE3	30:Q2:1512:ARG:HB2	1.81	0.63
30:Q3:1424:ASP:OD1	30:Q3:1509:ASP:HB3	1.99	0.63
3:QB:28:HIS:O	3:QB:43:GLN:NE2	2.32	0.63
4:QC:9:VAL:HG11	4:QC:150:ALA:HB2	1.79	0.63
3:QD:111:GLU:HG2	3:QD:112:LEU:HD12	1.80	0.63
4:QG:108:TYR:O	4:QG:112:LYS:NZ	2.22	0.63
4:QG:207:GLU:HB2	4:QG:304:LYS:HZ1	1.63	0.63
3:QJ:235:GLY:O	3:QJ:238:THR:OG1	2.17	0.63
4:QK:127:ASP:OD1	4:QK:128:LEU:N	2.31	0.63
3:RB:286:VAL:HG21	3:RB:325:GLU:HG3	1.80	0.63
3:RD:117:LEU:HD11	3:RD:154:LYS:HD2	1.78	0.63
3:SB:309:ARG:H	3:SB:372:THR:HG1	1.46	0.63
4:SC:192:HIS:HA	4:SC:195:LEU:HD23	1.80	0.63
3:SF:372:THR:HB	3:SF:375:GLN:HE22	1.63	0.63
3:SJ:250:LEU:O	3:SJ:254:ALA:N	2.29	0.63
39:TB:501:GTP:O3G	39:TB:501:GTP:O3'	2.14	0.63
4:TE:316:CYS:N	4:TE:378:LEU:O	2.31	0.63
4:TI:32:PRO:O	4:TI:85:GLN:NE2	2.31	0.63
4:TK:88:HIS:CE1	4:TK:121:ARG:HH22	2.17	0.63
3:TN:13:GLY:HA2	3:TN:16:ILE:HB	1.79	0.63
39:TN:501:GTP:O3G	39:TN:501:GTP:O3'	2.14	0.63
33:U:133:LYS:N	33:U:136:GLU:OE1	2.31	0.63
3:UH:12:CYS:HA	39:UH:501:GTP:N2	2.14	0.63
4:VC:88:HIS:HB3	4:VC:91:GLN:HB3	1.80	0.63
3:WB:4:ILE:HD11	3:WB:131:GLN:HB2	1.80	0.63
3:WB:302:ALA:HB1	3:WB:377:LEU:HD11	1.81	0.63
3:WH:4:ILE:HD11	3:WH:131:GLN:HB2	1.80	0.63
4:WI:205:ASP:OD2	4:WI:304:LYS:NZ	2.30	0.63
34:XE:74:PRO:HD2	34:XE:169:ASP:HA	1.78	0.63
34:XE:106:SER:HB2	34:XE:109:GLN:HG2	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:YL:32:CYS:HA	37:YL:56:TYR:CE1	2.33	0.63
37:YN:41:ARG:NH1	37:YN:48:GLN:OE1	2.31	0.63
3:AJ:114:ASP:OD1	3:AJ:115:SER:N	2.31	0.63
5:B1:296:ASP:OD2	5:B2:39:ARG:HD2	1.98	0.63
5:B2:7:LYS:HE2	8:D5:330:THR:H	1.64	0.63
5:B6:214:THR:OG1	5:B6:217:GLN:NE2	2.28	0.63
5:B7:160:GLN:HE21	8:D8:436:ARG:HH22	1.46	0.63
3:BH:392:LYS:HB2	3:BH:395:LEU:HD13	1.81	0.63
4:BK:47:ASP:O	4:BK:50:ASN:N	2.21	0.63
4:BK:53:PHE:O	4:BK:64:ARG:NH1	2.32	0.63
7:C1:121:ARG:NH1	7:C2:374:GLN:O	2.32	0.63
7:C3:177:ILE:HD12	7:C3:180:ARG:HH21	1.63	0.63
3:CD:372:THR:HG21	3:CD:426:GLN:HG3	1.81	0.63
3:CL:156:ARG:NH1	3:CL:195:ASN:O	2.32	0.63
8:D3:183:ILE:O	8:D3:187:GLN:HG2	1.99	0.63
3:DD:289:LEU:HD22	3:DD:363:MET:HE2	1.80	0.63
3:DJ:347:ASN:HB3	4:DK:178:SER:HB3	1.81	0.63
4:DK:310:GLY:O	4:DK:342:GLN:NE2	2.31	0.63
4:EK:88:HIS:HB3	4:EK:91:GLN:HB2	1.81	0.63
11:F2:302:ASP:O	11:F2:306:HIS:ND1	2.24	0.63
11:F7:372:GLU:HA	11:F7:375:ILE:HG12	1.80	0.63
4:FG:166:LYS:N	4:FG:199:ASP:OD2	2.30	0.63
4:FK:288:VAL:HG11	4:FK:327:ASP:HB2	1.80	0.63
11:Fb:376:MET:O	11:Fb:379:GLU:HG3	1.99	0.63
11:Fk:144:GLN:HG3	11:Fk:145:ARG:H	1.63	0.63
11:Fk:462:LEU:HG	11:Fk:466:LYS:NZ	2.14	0.63
13:G2:27:ARG:NH1	4:LG:243:ARG:O	2.31	0.63
13:G2:395:GLN:OE1	13:G2:406:ARG:NH2	2.31	0.63
13:G3:27:ARG:NH1	4:LK:243:ARG:O	2.29	0.63
14:G4:709:ALA:C	14:G4:711:PRO:HD3	2.24	0.63
3:GF:269:GLY:HA2	3:GF:300:MET:HE1	1.78	0.63
3:GH:246:LEU:HB2	3:GH:352:ALA:HB1	1.80	0.63
3:GJ:16:ILE:HD13	3:GJ:226:ASN:HD22	1.63	0.63
15:H2:307:ALA:O	15:H2:311:GLU:N	2.27	0.63
15:H4:214:GLN:HG3	15:H4:244:MET:HE3	1.80	0.63
4:HC:127:ASP:OD1	4:HC:128:LEU:N	2.31	0.63
3:HD:152:ILE:HA	3:HD:155:ILE:HG12	1.79	0.63
39:HF:501:GTP:O3G	39:HF:501:GTP:O3'	2.13	0.63
4:HG:188:ILE:HG22	4:HG:421:ALA:HB1	1.81	0.63
4:HG:205:ASP:OD2	4:HG:304:LYS:NZ	2.25	0.63
3:HH:84:ILE:O	3:HH:86:ARG:NH1	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HH:342:VAL:HB	3:HH:344:TRP:HE3	1.64	0.63
4:HK:332:ILE:HA	4:HK:335:ILE:HD12	1.81	0.63
4:IC:324:VAL:HG11	3:ID:219:THR:HB	1.79	0.63
19:J2:167:MET:HE2	19:J2:174:LEU:HD23	1.80	0.63
3:JL:211:CYS:HA	3:JL:215:LEU:HB2	1.80	0.63
21:K4:44:VAL:HG23	21:K4:45:THR:H	1.64	0.63
4:KA:208:ALA:H	4:KA:304:LYS:HZ1	1.45	0.63
4:KE:226:ASN:ND2	4:KE:367:ASP:OD2	2.32	0.63
4:KI:216:ASN:HB2	4:KI:276:ILE:HD12	1.79	0.63
3:KL:111:GLU:HG2	3:KL:112:LEU:HD12	1.80	0.63
3:LB:211:CYS:HA	3:LB:215:LEU:HB2	1.80	0.63
4:LE:127:ASP:OD1	4:LE:128:LEU:N	2.32	0.63
3:LF:379:LYS:HG3	24:M2:85:GLU:HB3	1.81	0.63
4:LG:67:PHE:HB2	4:LG:92:LEU:HD13	1.80	0.63
4:LI:127:ASP:OD1	4:LI:128:LEU:N	2.32	0.63
4:MC:419:SER:HA	4:MC:422:ARG:HE	1.63	0.63
3:MH:240:LEU:HA	3:MH:248:ALA:HB1	1.80	0.63
3:MJ:412:GLU:OE1	3:MJ:416:ASN:ND2	2.31	0.63
3:ML:135:LEU:HD21	3:ML:151:LEU:HD11	1.81	0.63
3:ML:282:ARG:NH2	3:ML:292:GLN:OE1	2.29	0.63
3:ML:286:VAL:HG21	3:ML:325:GLU:HG3	1.79	0.63
4:NE:144:GLY:N	39:NE:501:GTP:O2B	2.30	0.63
3:OH:323:MET:N	3:OH:323:MET:SD	2.71	0.63
3:OJ:267:MET:HE1	3:OJ:299:MET:HE2	1.80	0.63
4:OK:271:THR:HA	4:OK:302:MET:HE1	1.78	0.63
4:PC:236:SER:O	4:PC:243:ARG:NH2	2.30	0.63
3:PH:216:LYS:O	3:PH:276:ARG:NH2	2.32	0.63
27:Q:147:ASN:O	27:Q:151:ARG:N	2.22	0.63
30:Q3:1352:THR:HG22	30:Q3:1353:ASP:H	1.62	0.63
30:Q3:1423:ALA:N	30:Q3:1509:ASP:OD2	2.30	0.63
30:Q3:1463:LYS:HZ2	30:Q3:1507:TYR:HD1	1.47	0.63
3:QD:67:ASP:OD2	3:QD:72:THR:OG1	2.15	0.63
4:QE:98:ASP:OD1	4:QE:99:ALA:N	2.32	0.63
3:QL:302:ALA:HB1	3:QL:377:LEU:HD11	1.81	0.63
4:QM:182:VAL:HA	4:QM:185:TYR:HD2	1.64	0.63
4:RE:358:GLN:NE2	4:RE:359:PRO:O	2.31	0.63
3:RF:278:SER:HA	3:RF:281:TYR:HB2	1.81	0.63
3:SJ:372:THR:HG21	3:SJ:426:GLN:HG3	1.79	0.63
4:TC:1:MET:SD	4:TC:2:ARG:N	2.72	0.63
4:TC:127:ASP:OD1	4:TC:128:LEU:N	2.32	0.63
3:TJ:372:THR:HB	3:TJ:375:GLN:HE22	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:TK:127:ASP:OD1	4:TK:128:LEU:N	2.31	0.63
4:UA:207:GLU:HB2	4:UA:304:LYS:HZ1	1.63	0.63
4:UC:262:TYR:OH	3:UD:391:ARG:O	2.17	0.63
3:UD:46:ARG:HH12	4:UE:73:THR:HG23	1.64	0.63
3:VF:214:THR:HG21	3:VF:273:LEU:HB3	1.81	0.63
3:VF:330:MET:HE3	3:VF:334:GLN:HB2	1.79	0.63
3:VH:156:ARG:NH1	3:VH:195:ASN:O	2.32	0.63
3:WD:392:LYS:HB2	3:WD:395:LEU:HD13	1.80	0.63
3:WH:84:ILE:O	3:WH:86:ARG:NH1	2.31	0.63
3:WJ:302:ALA:HB1	3:WJ:377:LEU:HD11	1.81	0.63
4:WK:6:SER:HA	4:WK:136:LEU:HB2	1.80	0.63
37:YO:82:HIS:CE1	37:YO:86:LEU:HD11	2.34	0.63
37:YV:61:THR:HG22	37:YV:64:ARG:HH21	1.64	0.63
4:AG:264:ARG:O	4:AG:266:HIS:ND1	2.31	0.63
3:AH:215:LEU:HD11	3:AH:228:LEU:HD11	1.81	0.63
4:AI:127:ASP:OD1	4:AI:128:LEU:N	2.32	0.63
5:B1:321:ARG:HE	5:B1:324:ARG:HE	1.45	0.63
5:B2:7:LYS:HE2	8:D5:330:THR:HG23	1.81	0.63
5:B2:356:LEU:O	5:B2:360:GLN:HG2	1.99	0.63
5:B6:64:LEU:HB3	5:B6:190:LEU:HD21	1.79	0.63
5:B6:85:LEU:HD11	5:B6:172:LEU:HD12	1.81	0.63
4:BM:144:GLY:N	39:BM:501:GTP:O2B	2.29	0.63
3:CB:83:GLN:O	3:CB:86:ARG:NH2	2.32	0.63
4:CC:188:ILE:HG13	4:CC:421:ALA:HB1	1.81	0.63
3:CD:46:ARG:HH22	4:CE:73:THR:HA	1.64	0.63
7:Ca:225:THR:HB	7:Ca:336:MET:HE1	1.80	0.63
4:DC:271:THR:O	4:DC:377:MET:N	2.26	0.63
4:EA:216:ASN:HD21	4:EA:275:VAL:HG23	1.63	0.63
3:EJ:269:GLY:O	3:EJ:367:PHE:N	2.30	0.63
3:FH:269:GLY:N	3:FH:367:PHE:O	2.31	0.63
4:FI:127:ASP:OD1	4:FI:128:LEU:N	2.31	0.63
3:FL:170:VAL:N	3:FL:202:ILE:O	2.28	0.63
11:Fb:214:ASN:O	11:Fb:218:GLU:HG2	1.97	0.63
11:Ff:177:LEU:HD21	11:Ff:233:ALA:HB2	1.81	0.63
11:Fj:201:ARG:NH1	11:Fj:205:ASP:O	2.31	0.63
13:G3:110:SER:OG	13:G3:112:GLU:OE1	2.15	0.63
14:G6:464:SER:HB3	14:G6:479:MET:HE1	1.80	0.63
3:GH:139:LEU:HD21	3:GH:170:VAL:HG22	1.80	0.63
3:GL:278:SER:HA	3:GL:281:TYR:HB2	1.79	0.63
15:H4:212:LEU:HG	15:H4:213:ILE:H	1.64	0.63
15:H6:292:MET:HG3	15:H6:293:GLN:H	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HB:63:ALA:O	3:HB:89:ASN:ND2	2.31	0.63
4:HC:236:SER:O	4:HC:243:ARG:NH2	2.29	0.63
4:HI:8:HIS:NE2	4:HI:21:TRP:HH2	1.95	0.63
4:HI:54:SER:HB2	4:HI:62:VAL:HB	1.78	0.63
4:HK:32:PRO:O	4:HK:85:GLN:NE2	2.32	0.63
3:HL:77:ARG:O	3:HL:77:ARG:NH1	2.30	0.63
3:IB:259:PRO:HD2	3:IB:263:LEU:HD22	1.81	0.63
3:ID:205:GLU:HA	3:ID:208:TYR:HD2	1.64	0.63
4:II:32:PRO:O	4:II:85:GLN:NE2	2.32	0.63
4:JG:66:VAL:HA	4:JG:91:GLN:HE21	1.63	0.63
4:JG:127:ASP:OD1	4:JG:128:LEU:N	2.32	0.63
21:K4:492:SER:O	3:LL:340:TYR:OH	2.14	0.63
3:KD:324:LYS:HD2	4:KE:221:ARG:HA	1.79	0.63
3:KF:16:ILE:HD13	3:KF:226:ASN:ND2	2.13	0.63
3:KJ:170:VAL:N	3:KJ:202:ILE:O	2.26	0.63
4:KK:25:CYS:HB2	4:KK:30:ILE:HB	1.80	0.63
4:KK:53:PHE:O	4:KK:64:ARG:NH1	2.32	0.63
3:LH:253:LEU:HB3	3:LH:257:MET:HE1	1.81	0.63
3:LJ:317:PHE:O	3:LJ:354:CYS:N	2.28	0.63
3:MF:83:GLN:O	3:MF:86:ARG:NH2	2.32	0.63
3:MJ:16:ILE:HD13	3:MJ:226:ASN:HD22	1.64	0.63
3:ML:134:GLN:NE2	3:ML:233:MET:SD	2.72	0.63
3:NB:170:VAL:N	3:NB:202:ILE:O	2.25	0.63
4:NC:144:GLY:N	39:NC:501:GTP:O2B	2.30	0.63
4:NG:30:ILE:HG13	4:NG:53:PHE:HE2	1.63	0.63
4:OA:145:THR:OG1	39:OA:501:GTP:O1B	2.17	0.63
4:OA:244:PHE:HB2	4:OA:356:ASN:HD21	1.61	0.63
4:OG:1:MET:SD	4:OG:2:ARG:N	2.72	0.63
4:OG:207:GLU:HB2	4:OG:304:LYS:HZ1	1.63	0.63
4:OK:9:VAL:HG11	4:OK:150:ALA:HB2	1.81	0.63
4:PA:9:VAL:HA	4:PA:68:VAL:HG23	1.81	0.63
3:PB:211:CYS:HA	3:PB:215:LEU:HB3	1.80	0.63
3:PL:107:THR:OG1	3:PL:401:GLU:OE2	2.15	0.63
3:QB:240:LEU:HA	3:QB:248:ALA:HB1	1.80	0.63
3:QB:317:PHE:O	3:QB:354:CYS:N	2.25	0.63
4:QK:144:GLY:N	39:QK:501:GTP:O2B	2.31	0.63
31:R2:251:PHE:HB2	31:R2:257:ARG:HE	1.64	0.63
4:RE:209:ILE:HG23	4:RE:230:LEU:HD21	1.79	0.63
3:RH:3:GLU:HG2	3:RH:130:LEU:HD23	1.80	0.63
3:RJ:170:VAL:N	3:RJ:202:ILE:O	2.31	0.63
3:RL:372:THR:HG21	3:RL:426:GLN:HG3	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:RM:273:ALA:HB2	4:RM:295:CYS:HB3	1.80	0.63
4:SE:161:TYR:O	4:SE:166:LYS:NZ	2.31	0.63
3:SF:249:ASP:O	3:SF:252:LYS:HB2	1.99	0.63
4:SG:204:VAL:HG23	4:SG:302:MET:HG3	1.80	0.63
32:T:365:SER:OG	32:T:368:HIS:ND1	2.32	0.63
3:TF:46:ARG:HH22	4:TG:73:THR:HA	1.64	0.63
3:TJ:345:ILE:HD11	4:TK:181:VAL:HG11	1.80	0.63
3:TL:84:ILE:O	3:TL:86:ARG:NH1	2.32	0.63
3:UF:132:GLY:HA2	3:UF:162:ARG:HB3	1.80	0.63
3:UJ:11:GLN:HE21	39:UJ:501:GTP:H3'	1.63	0.63
4:VA:67:PHE:HB2	4:VA:92:LEU:HD13	1.81	0.63
3:VB:39:ASP:OD1	3:VB:43:GLN:NE2	2.32	0.63
3:VB:60:VAL:HG23	3:VB:86:ARG:HH11	1.64	0.63
3:VD:412:GLU:OE1	3:VD:416:ASN:ND2	2.32	0.63
3:VH:3:GLU:HG2	3:VH:130:LEU:HD23	1.81	0.63
4:VI:53:PHE:O	4:VI:64:ARG:NH1	2.32	0.63
33:W:315:ILE:O	33:W:319:ASN:N	2.28	0.63
4:WC:236:SER:O	4:WC:243:ARG:NH2	2.31	0.63
3:WF:94:GLN:OE1	35:XJ:75:GLY:N	2.32	0.63
35:XI:70:GLU:HB2	35:XI:77:LYS:HG3	1.80	0.63
35:XJ:185:LYS:HA	35:XJ:209:ILE:HG21	1.80	0.63
37:YO:15:TYR:HA	37:YO:18:PHE:HB3	1.81	0.63
2:A2:43:ARG:CZ	5:B4:44:ILE:HG12	2.29	0.63
4:AC:50:ASN:O	4:AC:64:ARG:NH1	2.32	0.63
3:AD:156:ARG:NH1	3:AD:195:ASN:O	2.32	0.63
4:BG:371:VAL:HG11	4:BG:374:ALA:HB2	1.80	0.63
3:BJ:7:LEU:HD13	3:BJ:64:VAL:HB	1.81	0.63
4:BK:388:TRP:HB3	4:BK:425:LEU:HD11	1.80	0.63
3:BL:324:LYS:HE2	4:BM:222:PRO:HD2	1.81	0.63
4:CC:49:PHE:O	4:CC:53:PHE:N	2.30	0.63
3:CJ:322:SER:N	3:CJ:325:GLU:OE2	2.29	0.63
3:CJ:392:LYS:HB2	3:CJ:395:LEU:HD13	1.80	0.63
8:D7:307:ARG:NH1	8:D7:310:GLU:OE1	2.32	0.63
3:DB:412:GLU:OE1	3:DB:416:ASN:ND2	2.31	0.63
4:DE:127:ASP:OD1	4:DE:128:LEU:N	2.32	0.63
4:EC:1:MET:N	4:EC:130:THR:OG1	2.32	0.63
3:ED:48:ASN:O	3:ED:62:ARG:NH2	2.27	0.63
11:F2:197:ASN:HA	11:F2:200:LYS:HD2	1.81	0.63
4:FA:53:PHE:O	4:FA:64:ARG:NH1	2.32	0.63
3:FD:52:ASN:OD1	3:FD:62:ARG:NH1	2.31	0.63
4:FE:49:PHE:O	4:FE:53:PHE:N	2.30	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FI:182:VAL:HA	4:FI:185:TYR:HD2	1.64	0.63
11:Fb:415:ARG:NH2	11:Fc:141:ASN:HB2	2.14	0.63
11:Ff:132:HIS:O	11:Ff:135:GLN:HG3	1.99	0.63
14:G4:178:LEU:HA	14:G4:181:ILE:HG22	1.79	0.63
14:G5:504:ALA:H	14:G5:539:LYS:HZ1	1.47	0.63
3:GB:150:LEU:O	3:GB:153:SER:OG	2.15	0.63
3:GB:322:SER:N	3:GB:325:GLU:OE2	2.32	0.63
3:GB:378:PHE:HA	3:GB:381:ILE:HG12	1.81	0.63
3:GD:83:GLN:O	3:GD:86:ARG:NH2	2.31	0.63
4:GK:154:MET:HE1	4:GK:197:HIS:HB2	1.79	0.63
15:H1:250:ASN:O	15:H1:254:PHE:N	2.22	0.63
15:H5:291:SER:OG	15:H5:295:ASN:ND2	2.32	0.63
3:HB:12:CYS:HA	39:HB:501:GTP:HN22	1.63	0.63
3:HB:48:ASN:O	3:HB:62:ARG:NH2	2.28	0.63
3:HD:286:VAL:HG21	3:HD:325:GLU:HG3	1.79	0.63
3:HF:322:SER:OG	3:HF:324:LYS:NZ	2.29	0.63
4:HG:12:ALA:HB2	39:HG:501:GTP:H5"	1.80	0.63
4:HG:237:SER:HB2	4:HG:318:LEU:HD11	1.81	0.63
3:HJ:16:ILE:HG13	3:HJ:226:ASN:ND2	2.14	0.63
3:ID:267:MET:O	3:ID:369:GLY:N	2.28	0.63
3:IJ:16:ILE:HD13	3:IJ:226:ASN:HD22	1.64	0.63
19:J2:30:ILE:O	19:J2:139:ARG:NH2	2.32	0.63
20:K:109:GLU:HG2	20:K:111:PRO:HD2	1.79	0.63
21:K2:347:LYS:O	21:K2:351:THR:OG1	2.13	0.63
21:K3:488:THR:C	21:K3:490:ALA:H	2.06	0.63
4:KE:49:PHE:O	4:KE:53:PHE:N	2.28	0.63
3:KH:346:PRO:HG2	4:KI:394:LYS:NZ	2.14	0.63
3:KJ:4:ILE:HD11	3:KJ:131:GLN:HB2	1.81	0.63
22:L2:76:LYS:HD3	4:LE:416:GLY:H	1.62	0.63
3:LL:235:GLY:O	3:LL:238:THR:OG1	2.14	0.63
3:MB:114:ASP:OD1	3:MB:115:SER:N	2.31	0.63
4:MC:127:ASP:OD1	4:MC:128:LEU:N	2.32	0.63
3:MF:77:ARG:O	3:MF:77:ARG:NH1	2.29	0.63
3:MH:54:ALA:HB3	3:MH:58:LYS:HB3	1.80	0.63
3:MH:316:VAL:HG22	3:MH:352:ALA:HB3	1.80	0.63
3:ML:12:CYS:SG	3:ML:13:GLY:N	2.72	0.63
3:ML:215:LEU:O	3:ML:276:ARG:NH1	2.32	0.63
26:N3:68:LYS:HG3	26:N3:69:ASP:H	1.64	0.63
4:NE:338:LYS:HZ2	4:NE:340:THR:H	1.46	0.63
4:NG:216:ASN:ND2	4:NG:275:VAL:O	2.32	0.63
3:NJ:337:ASN:HB2	3:NJ:340:TYR:HB2	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:OB:132:GLY:HA2	3:OB:162:ARG:HB3	1.80	0.63
4:OE:54:SER:HB2	4:OE:62:VAL:HB	1.80	0.63
4:OG:154:MET:HE1	4:OG:197:HIS:HB2	1.81	0.63
3:OH:100:ASN:HB3	3:OH:103:LYS:HB2	1.80	0.63
27:P:339:ASP:HA	27:P:342:ASN:HD21	1.64	0.63
3:PF:4:ILE:HD11	3:PF:131:GLN:HB2	1.80	0.63
4:PM:16:ILE:HD11	4:PM:138:PHE:HB3	1.81	0.63
3:QF:16:ILE:HD13	3:QF:226:ASN:HD22	1.64	0.63
3:QF:33:THR:O	3:QF:58:LYS:NZ	2.32	0.63
31:R2:119:ASN:HB2	31:R2:149:ILE:HG13	1.80	0.63
3:RB:374:ILE:HA	3:RB:377:LEU:HD13	1.80	0.63
4:RC:125:LEU:HD13	4:RC:128:LEU:HD21	1.81	0.63
4:RG:88:HIS:HB3	4:RG:91:GLN:HB2	1.80	0.63
4:RM:46:ASP:OD1	4:RM:50:ASN:ND2	2.32	0.63
3:SD:3:GLU:HG2	3:SD:130:LEU:HD23	1.81	0.63
4:SE:172:TYR:N	4:SE:204:VAL:O	2.29	0.63
4:SM:236:SER:O	4:SM:243:ARG:NH2	2.30	0.63
3:TD:3:GLU:HG2	3:TD:130:LEU:HD23	1.81	0.63
4:TM:396:ASP:HB3	4:TM:422:ARG:NH2	2.14	0.63
3:TN:316:VAL:HG22	3:TN:352:ALA:HB3	1.80	0.63
3:TN:322:SER:N	3:TN:325:GLU:OE2	2.32	0.63
4:UA:127:ASP:OD1	4:UA:128:LEU:N	2.31	0.63
3:UD:211:CYS:HA	3:UD:215:LEU:HB2	1.80	0.63
4:VC:53:PHE:O	4:VC:64:ARG:NH1	2.32	0.63
4:VG:70:LEU:HA	4:VG:95:GLY:HA3	1.79	0.63
3:VH:211:CYS:HA	3:VH:215:LEU:HB2	1.81	0.63
4:VK:88:HIS:HB3	4:VK:91:GLN:HB2	1.80	0.63
3:VL:100:ASN:HB3	3:VL:103:LYS:HB2	1.78	0.63
3:WB:39:ASP:OD1	3:WB:43:GLN:NE2	2.31	0.63
3:WD:175:VAL:HG22	3:WD:177:ASP:H	1.64	0.63
3:WD:385:PHE:HA	3:WD:388:MET:HE2	1.80	0.63
3:WF:39:ASP:OD1	3:WF:43:GLN:NE2	2.32	0.63
35:XJ:58:LYS:HA	35:XJ:61:GLU:HB2	1.80	0.63
37:YH:57:CYS:O	37:YH:63:ARG:NH1	2.30	0.63
37:YK:15:TYR:HA	37:YK:18:PHE:HB3	1.81	0.63
2:A1:67:LEU:HG	2:A1:71:ARG:HE	1.63	0.62
4:AE:34:GLY:HA2	4:AE:86:LEU:HD21	1.81	0.62
3:AH:278:SER:HA	3:AH:281:TYR:HB2	1.81	0.62
3:AL:211:CYS:HA	3:AL:215:LEU:HB2	1.79	0.62
5:B2:230:GLU:HB3	5:B2:234:LYS:HZ1	1.64	0.62
4:BE:154:MET:HE3	4:BE:194:THR:HG22	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BG:127:ASP:OD1	4:BG:128:LEU:N	2.32	0.62
3:BH:324:LYS:NZ	4:BI:222:PRO:O	2.19	0.62
6:C:149:ARG:HH22	6:C:173:THR:HG21	1.64	0.62
4:CG:7:ILE:HB	4:CG:137:ILE:HA	1.79	0.62
3:CH:68:LEU:HD12	3:CH:97:ALA:HB2	1.81	0.62
6:D:199:ASN:HB3	6:D:202:LEU:HB2	1.80	0.62
6:D:261:CYS:HB3	6:D:329:ILE:HB	1.81	0.62
8:D9:354:GLN:HA	8:D9:357:LEU:HD12	1.80	0.62
3:DB:77:ARG:O	3:DB:77:ARG:NH1	2.30	0.62
4:DE:187:SER:O	4:DE:190:THR:OG1	2.13	0.62
3:DF:309:ARG:N	3:DF:372:THR:OG1	2.26	0.62
4:EC:25:CYS:HB2	4:EC:30:ILE:HB	1.81	0.62
3:ED:398:TYR:HB3	3:ED:403:MET:HG2	1.79	0.62
4:EE:22:GLU:O	4:EE:26:LEU:HD23	1.99	0.62
4:EE:244:PHE:HB2	4:EE:356:ASN:HD21	1.64	0.62
3:EF:178:THR:HB	3:EF:181:GLU:HG3	1.81	0.62
4:EG:108:TYR:O	4:EG:112:LYS:NZ	2.26	0.62
4:EI:30:ILE:HA	4:EI:36:MET:HE1	1.81	0.62
11:F2:153:LYS:HZ3	11:F2:258:SER:HB3	1.64	0.62
3:FB:217:LEU:HD11	3:FB:220:PRO:HB3	1.80	0.62
3:FD:218:THR:OG1	13:G1:457:ARG:NH2	2.31	0.62
4:FG:144:GLY:N	39:FG:501:GTP:O2B	2.31	0.62
4:FI:427:ALA:HA	4:FI:430:LYS:HG2	1.81	0.62
3:FJ:250:LEU:O	3:FJ:254:ALA:N	2.29	0.62
13:G3:461:ILE:HD12	13:G3:461:ILE:H	1.64	0.62
14:G5:654:PRO:HA	14:G5:687:GLN:HG2	1.80	0.62
4:GA:108:TYR:O	4:GA:112:LYS:NZ	2.26	0.62
4:GG:213:CYS:O	4:GG:218:ASP:N	2.31	0.62
4:GI:204:VAL:HG23	4:GI:302:MET:HG3	1.81	0.62
4:GI:245:ASP:O	4:GI:356:ASN:ND2	2.32	0.62
12:H:451:LEU:HD12	12:H:454:GLN:HE21	1.63	0.62
12:H:460:GLN:HA	12:H:463:GLU:HB3	1.81	0.62
4:HE:188:ILE:HG22	4:HE:421:ALA:HB1	1.81	0.62
3:HF:83:GLN:O	3:HF:86:ARG:NH2	2.32	0.62
4:HK:248:LEU:HD23	4:HK:355:ILE:HG22	1.81	0.62
4:IC:265:ILE:HD12	4:IC:267:PHE:HD2	1.63	0.62
4:II:338:LYS:HZ2	4:II:340:THR:H	1.46	0.62
3:IJ:250:LEU:O	3:IJ:254:ALA:N	2.27	0.62
3:IJ:312:THR:HG22	3:IJ:370:ASN:HB3	1.81	0.62
3:IL:269:GLY:HA2	3:IL:300:MET:HE1	1.79	0.62
4:IM:101:ASN:HA	4:IM:144:GLY:HA2	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JB:16:ILE:HD13	3:JB:226:ASN:HD22	1.63	0.62
3:JF:269:GLY:HA2	3:JF:300:MET:HE1	1.81	0.62
21:K4:152:ARG:O	21:K4:156:ARG:NH1	2.32	0.62
4:KA:67:PHE:HB2	4:KA:92:LEU:HD13	1.81	0.62
4:LI:216:ASN:ND2	4:LI:275:VAL:O	2.32	0.62
3:MH:170:VAL:N	3:MH:202:ILE:O	2.30	0.62
3:MH:278:SER:HA	3:MH:281:TYR:HB2	1.80	0.62
4:NA:46:ASP:OD1	4:NA:50:ASN:ND2	2.32	0.62
3:NH:317:PHE:HB3	3:NH:321:MET:HE3	1.81	0.62
28:O3:105:ALA:O	28:O3:109:LEU:HD13	1.99	0.62
3:OB:7:LEU:HB2	3:OB:135:LEU:HG	1.79	0.62
3:OD:357:PRO:HB3	3:OD:362:LYS:HA	1.79	0.62
3:PB:144:GLY:N	39:PB:501:GTP:O2B	2.32	0.62
3:PD:84:ILE:O	3:PD:86:ARG:NH1	2.32	0.62
4:PE:54:SER:HB2	4:PE:62:VAL:HB	1.80	0.62
3:PF:84:ILE:O	3:PF:86:ARG:NH1	2.32	0.62
4:PG:172:TYR:N	4:PG:204:VAL:O	2.26	0.62
30:Q2:1341:ARG:HH12	30:Q2:1445:PRO:HD3	1.64	0.62
30:Q2:1352:THR:HG22	30:Q2:1353:ASP:H	1.64	0.62
4:QG:192:HIS:HA	4:QG:195:LEU:HD23	1.80	0.62
3:QH:317:PHE:O	3:QH:354:CYS:N	2.25	0.62
3:RD:77:ARG:O	3:RD:77:ARG:NH1	2.29	0.62
4:RE:192:HIS:HA	4:RE:195:LEU:HD23	1.81	0.62
4:SC:127:ASP:OD1	4:SC:128:LEU:N	2.32	0.62
4:SE:127:ASP:OD1	4:SE:128:LEU:N	2.31	0.62
4:SE:208:ALA:H	4:SE:304:LYS:HZ1	1.47	0.62
4:TG:338:LYS:HZ2	4:TG:340:THR:H	1.46	0.62
3:TN:83:GLN:O	3:TN:86:ARG:NH2	2.32	0.62
3:UJ:317:PHE:HB3	3:UJ:321:MET:HE3	1.81	0.62
4:VC:223:THR:OG1	4:VC:225:THR:OG1	2.13	0.62
4:WA:46:ASP:OD1	4:WA:50:ASN:ND2	2.32	0.62
4:WA:208:ALA:H	4:WA:304:LYS:HZ1	1.47	0.62
3:WH:8:GLN:HE21	3:WH:14:ASN:HA	1.64	0.62
3:WH:372:THR:HG21	3:WH:426:GLN:HG2	1.80	0.62
4:WK:70:LEU:HD11	4:WK:149:PHE:CE1	2.34	0.62
34:XE:1:MET:HG2	34:XE:67:LYS:HE3	1.80	0.62
37:YA:161:LYS:HG3	37:YA:162:VAL:HG23	1.81	0.62
37:YK:25:PHE:HD1	37:YK:65:ILE:HG22	1.64	0.62
2:A2:333:ALA:H	2:A3:66:ARG:NH2	1.97	0.62
3:AB:83:GLN:O	3:AB:86:ARG:NH2	2.32	0.62
3:AB:151:LEU:HD22	3:AB:154:LYS:HZ1	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:49:PHE:HB2	4:AE:53:PHE:HB2	1.79	0.62
4:AG:88:HIS:HB3	4:AG:91:GLN:HB2	1.82	0.62
4:AG:89:PRO:HD2	4:BG:280:LYS:HZ3	1.63	0.62
1:B:437:GLN:HA	1:B:440:ILE:HB	1.81	0.62
5:B1:134:GLU:HA	5:B1:137:LEU:HD12	1.80	0.62
4:BE:88:HIS:HB3	4:BE:91:GLN:CG	2.29	0.62
3:BJ:216:LYS:O	3:BJ:276:ARG:NH2	2.32	0.62
3:BJ:223:GLY:O	3:BJ:227:HIS:ND1	2.32	0.62
4:BM:185:TYR:OH	4:BM:403:ALA:O	2.11	0.62
7:C4:222:GLU:HB3	7:C4:339:GLN:HG2	1.79	0.62
7:C4:347:PHE:CE2	7:C4:351:ILE:HD11	2.35	0.62
7:C4:358:LYS:HA	7:C4:462:LYS:HZ2	1.65	0.62
7:C4:389:LYS:HZ1	7:C4:434:LEU:HB2	1.64	0.62
7:C7:453:ALA:O	7:C7:457:HIS:HD2	1.81	0.62
3:CB:132:GLY:HA2	3:CB:162:ARG:HB3	1.81	0.62
3:CD:103:LYS:HD3	3:CD:107:THR:HB	1.81	0.62
3:CL:39:ASP:OD1	3:CL:43:GLN:NE2	2.32	0.62
4:CM:46:ASP:HA	4:CM:50:ASN:HB3	1.81	0.62
4:CM:144:GLY:N	39:CM:501:GTP:O2B	2.32	0.62
6:D:71:TYR:HB3	6:D:74:LEU:HG	1.79	0.62
6:D:152:ALA:HA	6:D:155:PHE:CD2	2.33	0.62
8:D7:350:LEU:HB2	8:D7:384:LEU:HD13	1.81	0.62
3:DF:48:ASN:O	3:DF:62:ARG:NH2	2.32	0.62
4:DG:144:GLY:N	39:DG:501:GTP:O2B	2.32	0.62
4:DG:234:ILE:HD11	4:DG:272:TYR:HB2	1.82	0.62
3:DH:235:GLY:O	3:DH:238:THR:OG1	2.17	0.62
3:DH:252:LYS:O	3:DH:256:ASN:ND2	2.31	0.62
3:DL:286:VAL:HG21	3:DL:325:GLU:HG3	1.80	0.62
10:E1:165:ASP:HB3	10:E1:175:ARG:NH1	2.14	0.62
4:EC:236:SER:O	4:EC:243:ARG:NH2	2.30	0.62
3:EH:374:ILE:HA	3:EH:377:LEU:HD13	1.81	0.62
3:EJ:350:LYS:HE3	4:EK:181:VAL:H	1.64	0.62
4:EK:102:ASN:ND2	4:EK:411:GLU:OE2	2.31	0.62
9:F:345:LEU:HD13	4:IK:370:LYS:HG2	1.79	0.62
11:F5:226:GLN:HB2	11:F5:230:ARG:NH1	2.14	0.62
11:F8:210:ASN:O	11:F8:214:ASN:N	2.25	0.62
11:F9:399:ARG:CZ	11:Fa:267:CYS:HB2	2.28	0.62
3:FD:372:THR:HG21	3:FD:426:GLN:HG3	1.81	0.62
4:FK:396:ASP:OD1	4:FK:397:LEU:N	2.33	0.62
11:Fl:198:ARG:NH2	11:Fl:201:ARG:HH21	1.97	0.62
13:G1:477:SER:OG	13:G1:483:ILE:N	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:G3:248:ILE:HD11	13:G3:259:CYS:HB3	1.80	0.62
4:GG:49:PHE:O	4:GG:53:PHE:N	2.32	0.62
3:GH:323:MET:SD	3:GH:323:MET:N	2.72	0.62
4:GK:144:GLY:N	39:GK:501:GTP:O2B	2.30	0.62
4:HA:6:SER:HA	4:HA:136:LEU:HB2	1.80	0.62
4:HC:65:ALA:O	4:HC:91:GLN:NE2	2.32	0.62
3:HD:117:LEU:HD11	3:HD:154:LYS:HD2	1.81	0.62
3:HL:328:GLU:OE1	3:HL:332:ASN:ND2	2.31	0.62
3:HL:342:VAL:HB	3:HL:344:TRP:HE3	1.62	0.62
16:I:88:TRP:CH2	3:JB:357:PRO:HD2	2.25	0.62
4:IA:306:ASP:OD2	4:IA:309:HIS:ND1	2.32	0.62
4:IE:215:ARG:NH1	4:IE:299:ALA:O	2.33	0.62
3:IF:306:ARG:O	3:IF:306:ARG:NE	2.31	0.62
4:IG:12:ALA:HB1	39:IG:501:GTP:C2	2.33	0.62
3:IJ:17:GLY:O	3:IJ:20:PHE:N	2.31	0.62
3:IL:11:GLN:HE21	39:IL:501:GTP:H3'	1.64	0.62
19:J1:87:ILE:HA	19:J1:90:HIS:HD1	1.64	0.62
19:J3:129:LEU:O	19:J3:132:HIS:ND1	2.32	0.62
3:JD:250:LEU:O	3:JD:254:ALA:N	2.25	0.62
4:JI:396:ASP:OD1	4:JI:397:LEU:N	2.32	0.62
3:JJ:2:ARG:HB3	3:JJ:131:GLN:NE2	2.14	0.62
4:JK:234:ILE:HD11	4:JK:272:TYR:HB2	1.81	0.62
4:KI:127:ASP:OD1	4:KI:128:LEU:N	2.32	0.62
4:KK:21:TRP:HA	4:KK:24:TYR:HB2	1.80	0.62
4:KK:203:MET:HE1	4:KK:267:PHE:HB3	1.81	0.62
4:LC:127:ASP:OD1	4:LC:128:LEU:N	2.32	0.62
3:LF:55:THR:HB	27:P:240:MET:HE1	1.81	0.62
3:LL:390:ARG:HD2	3:LL:391:ARG:HG3	1.81	0.62
3:MD:290:THR:HG21	3:MD:329:GLN:HB3	1.81	0.62
4:MG:88:HIS:CE1	4:MG:121:ARG:HH22	2.17	0.62
4:MM:269:LEU:N	4:MM:379:SER:O	2.29	0.62
4:NI:152:LEU:HG	4:NI:156:ARG:HH12	1.64	0.62
3:OB:282:ARG:NH2	3:OB:292:GLN:OE1	2.23	0.62
3:OD:423:GLN:O	3:OD:427:ASP:N	2.31	0.62
4:OG:102:ASN:HB3	4:OG:105:ARG:HB2	1.81	0.62
4:OG:205:ASP:OD2	4:OG:304:LYS:NZ	2.25	0.62
4:OK:154:MET:HE3	4:OK:194:THR:HG22	1.80	0.62
3:OL:36:TYR:O	37:YW:64:ARG:NH2	2.32	0.62
29:P3:353:LYS:HE2	29:P3:354:LYS:HE3	1.81	0.62
3:PF:132:GLY:HA2	3:PF:162:ARG:HB3	1.79	0.62
3:PF:139:LEU:HD21	3:PF:170:VAL:HG22	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PF:245:GLN:HE22	4:PG:15:GLN:HE22	1.44	0.62
3:PJ:117:LEU:HD11	3:PJ:154:LYS:HD2	1.81	0.62
3:QB:302:ALA:HB1	3:QB:377:LEU:HD21	1.80	0.62
3:QD:16:ILE:HD13	3:QD:226:ASN:HD22	1.64	0.62
3:QD:84:ILE:O	3:QD:86:ARG:NH1	2.32	0.62
3:QJ:3:GLU:HG2	3:QJ:130:LEU:HD23	1.80	0.62
3:QL:173:PRO:O	3:QL:380:ARG:NH2	2.32	0.62
4:QM:79:ARG:C	4:QM:84:ARG:HD3	2.24	0.62
4:QM:91:GLN:HG3	4:QM:121:ARG:HH21	1.63	0.62
27:R:226:GLU:HA	27:R:229:ARG:HD2	1.82	0.62
3:RB:317:PHE:O	3:RB:354:CYS:N	2.29	0.62
3:RD:246:LEU:HB2	3:RD:352:ALA:HB1	1.81	0.62
4:RE:127:ASP:OD1	4:RE:128:LEU:N	2.32	0.62
4:RG:216:ASN:ND2	4:RG:275:VAL:O	2.31	0.62
3:SD:46:ARG:HH12	4:SE:73:THR:HG23	1.63	0.62
3:SD:117:LEU:HD11	3:SD:154:LYS:HD2	1.81	0.62
3:TB:170:VAL:N	3:TB:202:ILE:O	2.28	0.62
4:TE:53:PHE:O	4:TE:64:ARG:NH1	2.32	0.62
3:TF:101:TRP:HB2	3:TF:184:ASN:HD22	1.64	0.62
4:TI:317:MET:HE1	4:TI:351:PHE:HB2	1.80	0.62
4:TM:88:HIS:HB3	4:TM:91:GLN:HB2	1.80	0.62
3:UD:132:GLY:HA3	3:UD:163:ILE:H	1.64	0.62
3:UH:39:ASP:OD1	3:UH:43:GLN:NE2	2.32	0.62
4:UI:50:ASN:O	4:UI:64:ARG:NH1	2.32	0.62
4:VA:365:GLY:HA3	33:W:378:LYS:HD2	1.80	0.62
3:VB:250:LEU:O	3:VB:254:ALA:N	2.26	0.62
4:VI:12:ALA:HB2	39:VI:501:GTP:H5"	1.80	0.62
3:WB:132:GLY:HA2	3:WB:162:ARG:HB3	1.81	0.62
4:WC:54:SER:HB2	4:WC:62:VAL:HB	1.79	0.62
4:WG:358:GLN:NE2	4:WG:359:PRO:O	2.30	0.62
3:WL:60:VAL:HG23	3:WL:86:ARG:HH11	1.63	0.62
35:XI:126:ILE:HD11	35:XI:133:LEU:HD11	1.80	0.62
37:YP:29:LEU:HB3	37:YP:33:ARG:HH12	1.63	0.62
37:YQ:161:LYS:HG3	37:YQ:162:VAL:HG23	1.79	0.62
2:A1:326:VAL:HG23	2:A2:212:VAL:HG11	1.81	0.62
3:AF:132:GLY:HA2	3:AF:162:ARG:HB3	1.81	0.62
4:AG:371:VAL:HG11	4:AG:374:ALA:HB2	1.80	0.62
4:AG:411:GLU:OE2	4:AG:413:MET:HE1	1.99	0.62
4:AI:87:PHE:HB3	4:AI:92:LEU:HD11	1.81	0.62
1:B:477:LEU:HD12	11:Fb:313:ASN:HD22	1.64	0.62
5:B2:167:GLU:O	5:B2:170:GLN:NE2	2.31	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B3:14:LEU:HG	5:B3:18:ARG:HH11	1.64	0.62
5:B3:413:ARG:HH22	8:D3:400:GLN:HB2	1.64	0.62
5:B4:72:ASN:O	5:B4:75:LYS:HG3	1.99	0.62
4:BC:396:ASP:OD1	4:BC:397:LEU:N	2.33	0.62
4:BE:419:SER:HA	4:BE:422:ARG:HE	1.64	0.62
3:BH:141:GLY:HA3	39:BH:501:GTP:H5"	1.81	0.62
3:BL:392:LYS:HB2	3:BL:395:LEU:HD13	1.81	0.62
7:C3:281:VAL:HA	7:C4:398:THR:HG21	1.80	0.62
7:C5:403:ARG:NH1	7:C5:403:ARG:O	2.32	0.62
3:CB:292:GLN:O	3:CB:298:ASN:ND2	2.31	0.62
4:CC:67:PHE:HB2	4:CC:92:LEU:HD12	1.80	0.62
4:CC:371:VAL:HG11	4:CC:374:ALA:HB2	1.80	0.62
4:CE:49:PHE:HB2	4:CE:53:PHE:HB2	1.79	0.62
4:CE:219:ILE:HG22	4:CE:222:PRO:HD3	1.81	0.62
3:CJ:378:PHE:HA	3:CJ:381:ILE:HG12	1.80	0.62
8:D2:322:LEU:HD13	8:D2:412:LEU:HD22	1.81	0.62
3:DH:350:LYS:HE3	4:DI:181:VAL:H	1.64	0.62
3:EB:60:VAL:HG23	3:EB:86:ARG:HH11	1.63	0.62
3:ED:227:HIS:O	3:ED:230:SER:OG	2.13	0.62
11:F8:226:GLN:HA	11:F8:229:MET:HE2	1.80	0.62
3:FB:247:ASN:HB3	3:FB:252:LYS:HG2	1.81	0.62
3:FH:256:ASN:HB3	3:FH:350:LYS:HG3	1.81	0.62
11:Fb:160:LEU:HD11	11:Fb:254:ILE:HG21	1.80	0.62
11:Fb:293:PRO:HA	11:Fb:296:TRP:HE3	1.64	0.62
11:Fb:295:THR:HA	11:Fb:298:LYS:HG2	1.80	0.62
11:Fe:171:ASP:HB3	11:Fe:175:ARG:HH12	1.63	0.62
11:Ff:396:LEU:HD12	11:Ff:399:ARG:HD3	1.80	0.62
14:G4:497:GLU:OE1	14:G4:497:GLU:N	2.33	0.62
14:G5:81:PHE:HB2	14:G5:104:ILE:HB	1.81	0.62
4:GK:49:PHE:O	4:GK:53:PHE:N	2.32	0.62
4:HA:68:VAL:HG12	4:HA:93:ILE:HB	1.81	0.62
3:HD:324:LYS:HD2	4:HE:221:ARG:HA	1.81	0.62
3:HD:385:PHE:HZ	3:HD:408:PHE:HB3	1.64	0.62
4:HE:12:ALA:HB2	39:HE:501:GTP:H5"	1.81	0.62
3:IB:344:TRP:CD1	4:IC:401:LYS:HD2	2.34	0.62
3:ID:4:ILE:HD11	3:ID:131:GLN:HB2	1.82	0.62
4:IE:144:GLY:N	39:IE:501:GTP:O2B	2.31	0.62
4:IG:205:ASP:OD2	4:IG:304:LYS:NZ	2.31	0.62
4:IK:70:LEU:HD13	4:IK:95:GLY:HA3	1.79	0.62
4:IK:236:SER:O	4:IK:243:ARG:NH2	2.28	0.62
3:IL:4:ILE:HD11	3:IL:131:GLN:HB2	1.79	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JB:319:GLY:HA2	3:JB:357:PRO:HG3	1.80	0.62
3:JB:322:SER:N	3:JB:325:GLU:OE2	2.31	0.62
4:JC:32:PRO:O	4:JC:85:GLN:NE2	2.33	0.62
3:JD:305:PRO:HB2	3:JD:310:TYR:HE1	1.64	0.62
3:JF:170:VAL:N	3:JF:202:ILE:O	2.30	0.62
3:KB:87:PRO:HA	3:KB:90:PHE:HD2	1.63	0.62
3:KB:392:LYS:HB2	3:KB:395:LEU:HD13	1.80	0.62
4:KK:50:ASN:O	4:KK:64:ARG:NH1	2.32	0.62
4:LA:216:ASN:HB2	4:LA:276:ILE:HD12	1.82	0.62
3:LF:132:GLY:HA2	3:LF:162:ARG:HB3	1.79	0.62
4:LK:49:PHE:O	4:LK:53:PHE:N	2.32	0.62
3:MD:7:LEU:HD13	3:MD:64:VAL:HB	1.82	0.62
3:MF:246:LEU:HB2	3:MF:352:ALA:HB1	1.81	0.62
4:MG:396:ASP:OD1	4:MG:397:LEU:N	2.32	0.62
3:MH:269:GLY:HA2	3:MH:300:MET:HE1	1.80	0.62
4:MK:261:PRO:HA	3:ML:394:PHE:HE1	1.64	0.62
4:MM:68:VAL:HG12	4:MM:93:ILE:HB	1.81	0.62
4:NA:212:ILE:HG23	4:NA:216:ASN:OD1	2.00	0.62
39:NB:501:GTP:O3G	39:NB:501:GTP:O3'	2.12	0.62
4:NE:49:PHE:O	4:NE:53:PHE:N	2.31	0.62
4:NE:358:GLN:NE2	4:NE:359:PRO:O	2.31	0.62
3:OD:317:PHE:O	3:OD:354:CYS:N	2.30	0.62
3:OH:324:LYS:NZ	4:OI:222:PRO:O	2.25	0.62
29:P1:100:LYS:HE3	29:P1:102:GLU:HB2	1.80	0.62
29:P1:398:ILE:HD11	29:P1:420:VAL:HG11	1.81	0.62
29:P2:93:ILE:O	29:P2:107:LEU:N	2.25	0.62
29:P2:398:ILE:HD11	29:P2:420:VAL:HG11	1.81	0.62
4:PA:127:ASP:OD1	4:PA:128:LEU:N	2.32	0.62
3:PB:376:GLU:HA	3:PB:379:LYS:HG2	1.80	0.62
4:PE:229:ARG:HE	4:PE:368:LEU:HD22	1.62	0.62
3:PH:415:MET:O	3:PH:419:VAL:N	2.26	0.62
3:PJ:392:LYS:HB2	3:PJ:395:LEU:HD13	1.81	0.62
3:PL:385:PHE:HA	3:PL:388:MET:HE2	1.81	0.62
30:Q2:1450:CYS:HB3	30:Q2:1453:PRO:HG2	1.81	0.62
3:QD:328:GLU:OE1	3:QD:332:ASN:ND2	2.32	0.62
3:QF:141:GLY:HA3	39:QF:501:GTP:H5"	1.81	0.62
4:RC:144:GLY:N	39:RC:501:GTP:O2B	2.31	0.62
3:RF:4:ILE:HD11	3:RF:131:GLN:HB2	1.80	0.62
3:RH:139:LEU:HD21	3:RH:170:VAL:HG22	1.81	0.62
4:RI:2:ARG:NH2	4:RI:250:VAL:O	2.32	0.62
3:RL:292:GLN:O	3:RL:298:ASN:ND2	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:SB:302:ALA:HB1	3:SB:377:LEU:HD11	1.81	0.62
4:SC:49:PHE:HB2	4:SC:53:PHE:HB2	1.81	0.62
4:SC:101:ASN:HA	4:SC:144:GLY:HA2	1.79	0.62
3:SF:322:SER:OG	3:SF:323:MET:SD	2.58	0.62
4:SI:395:PHE:HB3	4:SI:422:ARG:HH22	1.64	0.62
4:TG:88:HIS:CE1	4:TG:121:ARG:HH22	2.17	0.62
4:TM:216:ASN:HB2	4:TM:276:ILE:HD12	1.82	0.62
3:UB:117:LEU:HD11	3:UB:154:LYS:HD2	1.81	0.62
3:UB:317:PHE:O	3:UB:354:CYS:N	2.27	0.62
3:UD:372:THR:HG21	3:UD:426:GLN:HG3	1.80	0.62
3:UD:392:LYS:HB2	3:UD:395:LEU:HD13	1.82	0.62
4:VE:91:GLN:HG3	4:VE:121:ARG:HH21	1.62	0.62
4:VG:236:SER:O	4:VG:243:ARG:NH2	2.26	0.62
3:VJ:156:ARG:NH1	3:VJ:195:ASN:O	2.32	0.62
4:VK:9:VAL:HG11	4:VK:150:ALA:HB2	1.81	0.62
4:WA:1:MET:SD	4:WA:2:ARG:N	2.72	0.62
3:WH:139:LEU:HD21	3:WH:170:VAL:HG22	1.82	0.62
3:WJ:322:SER:N	3:WJ:325:GLU:OE2	2.32	0.62
4:WK:102:ASN:HB3	4:WK:105:ARG:HB2	1.81	0.62
34:XA:1:MET:HE1	34:XA:24:ILE:HD11	1.80	0.62
36:Y:48:GLU:OE2	36:Y:48:GLU:N	2.27	0.62
37:YD:75:GLU:HA	37:YD:78:LYS:HE2	1.79	0.62
37:YH:30:GLU:OE1	37:YH:33:ARG:NH2	2.32	0.62
37:YK:14:LYS:O	37:YK:18:PHE:N	2.31	0.62
37:YK:33:ARG:NH2	37:YK:134:TYR:OH	2.31	0.62
3:AB:143:THR:O	3:AB:147:MET:HG2	1.98	0.62
4:AC:396:ASP:OD1	4:AC:397:LEU:N	2.32	0.62
3:AD:392:LYS:HB2	3:AD:395:LEU:HD13	1.81	0.62
3:AF:12:CYS:SG	3:AF:13:GLY:N	2.72	0.62
4:AM:89:PRO:HD2	4:BM:280:LYS:HZ3	1.65	0.62
4:BC:208:ALA:H	4:BC:304:LYS:HZ1	1.47	0.62
4:BG:34:GLY:HA2	4:BG:86:LEU:HD21	1.82	0.62
3:BH:350:LYS:HE3	4:BI:181:VAL:H	1.64	0.62
3:BJ:322:SER:N	3:BJ:325:GLU:OE2	2.32	0.62
7:C4:334:ASN:ND2	10:E3:182:ASP:OD1	2.32	0.62
7:C8:121:ARG:HD2	7:C9:378:THR:HG21	1.80	0.62
3:CB:303:CYS:SG	3:CB:304:ASP:N	2.73	0.62
3:CD:347:ASN:HB3	4:CE:178:SER:HB3	1.81	0.62
3:CF:273:LEU:H	3:CF:292:GLN:HE22	1.48	0.62
3:CH:60:VAL:HG23	3:CH:86:ARG:HH11	1.62	0.62
8:D2:135:LYS:HG2	8:D2:194:ILE:HD11	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:D3:399:GLU:OE1	8:D3:403:ARG:NH2	2.33	0.62
8:D7:263:ASP:O	8:D7:267:ARG:HG2	1.99	0.62
8:D9:75:GLU:O	8:D9:78:ARG:HG2	1.99	0.62
4:DG:127:ASP:OD1	4:DG:128:LEU:N	2.32	0.62
3:DJ:135:LEU:HD21	3:DJ:151:LEU:HD11	1.81	0.62
4:DK:127:ASP:OD1	4:DK:128:LEU:N	2.32	0.62
3:ED:385:PHE:HA	3:ED:388:MET:HE2	1.80	0.62
4:FA:207:GLU:HB2	4:FA:304:LYS:HZ1	1.62	0.62
4:FI:192:HIS:HA	4:FI:195:LEU:HD23	1.80	0.62
4:FK:207:GLU:HB2	4:FK:304:LYS:HZ1	1.64	0.62
14:G4:59:VAL:O	14:G4:150:TYR:OH	2.13	0.62
4:GA:271:THR:O	4:GA:377:MET:N	2.29	0.62
3:GB:266:PHE:HB3	3:GB:368:ILE:HD11	1.81	0.62
4:HA:50:ASN:O	4:HA:64:ARG:NH1	2.32	0.62
4:HC:311:LYS:H	4:HC:382:THR:HG22	1.65	0.62
4:IC:171:ILE:HD12	4:IC:204:VAL:HG13	1.80	0.62
4:IC:185:TYR:OH	4:IC:403:ALA:O	2.16	0.62
4:IE:208:ALA:H	4:IE:304:LYS:HZ1	1.45	0.62
3:IJ:252:LYS:O	3:IJ:256:ASN:ND2	2.32	0.62
3:IJ:322:SER:OG	3:IJ:324:LYS:NZ	2.31	0.62
3:IL:60:VAL:HG23	3:IL:86:ARG:HH11	1.63	0.62
3:IL:322:SER:HB3	3:IL:324:LYS:HZ2	1.64	0.62
4:IM:423:GLU:HA	4:IM:426:ALA:HB3	1.82	0.62
19:J2:60:THR:HG22	19:J2:62:PHE:H	1.64	0.62
4:JA:226:ASN:ND2	4:JA:367:ASP:OD2	2.32	0.62
4:JE:271:THR:HA	4:JE:302:MET:HE1	1.80	0.62
3:JJ:4:ILE:HD11	3:JJ:131:GLN:HB2	1.81	0.62
21:K2:357:MET:O	21:K2:360:THR:OG1	2.13	0.62
21:K2:370:GLU:O	21:K2:374:THR:N	2.28	0.62
3:KB:278:SER:HA	3:KB:281:TYR:HB2	1.80	0.62
4:KE:185:TYR:HA	4:KE:395:PHE:HE1	1.63	0.62
4:KI:254:GLU:O	4:KI:258:ASN:ND2	2.22	0.62
22:L3:119:LYS:H	4:LK:412:GLY:HA2	1.64	0.62
3:LB:141:GLY:HA3	39:LB:501:GTP:H5"	1.80	0.62
3:MB:46:ARG:NH1	3:MB:240:LEU:O	2.29	0.62
4:MK:1:MET:O	4:MK:133:GLN:NE2	2.31	0.62
4:MM:127:ASP:OD1	4:MM:128:LEU:N	2.31	0.62
4:NA:9:VAL:HG11	4:NA:150:ALA:HB2	1.81	0.62
4:NC:54:SER:HB2	4:NC:62:VAL:HB	1.81	0.62
3:NH:151:LEU:HD22	3:NH:154:LYS:HZ1	1.64	0.62
4:NI:30:ILE:HA	4:NI:36:MET:HE1	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:NK:262:TYR:OH	3:NL:391:ARG:O	2.18	0.62
39:NL:501:GTP:O3G	39:NL:501:GTP:O3'	2.16	0.62
4:OC:50:ASN:O	4:OC:64:ARG:NH1	2.32	0.62
4:OC:273:ALA:HB2	4:OC:295:CYS:HB3	1.80	0.62
3:OD:107:THR:OG1	3:OD:401:GLU:OE2	2.16	0.62
4:OE:91:GLN:HG3	4:OE:121:ARG:HH21	1.64	0.62
4:OE:186:ASN:HA	4:OE:189:LEU:HD12	1.80	0.62
3:OH:39:ASP:OD1	3:OH:43:GLN:NE2	2.31	0.62
3:PF:357:PRO:HB3	3:PF:362:LYS:HA	1.79	0.62
3:PF:372:THR:HG21	3:PF:426:GLN:HG3	1.82	0.62
4:PI:8:HIS:CE1	4:PI:138:PHE:CD2	2.88	0.62
4:QC:127:ASP:OD1	4:QC:128:LEU:N	2.32	0.62
4:QC:338:LYS:HZ2	4:QC:340:THR:H	1.46	0.62
3:QF:170:VAL:N	3:QF:202:ILE:O	2.30	0.62
3:QJ:170:VAL:N	3:QJ:202:ILE:O	2.31	0.62
4:QK:154:MET:HE1	4:QK:197:HIS:HB2	1.81	0.62
3:RB:372:THR:HB	3:RB:375:GLN:HE22	1.64	0.62
4:RI:32:PRO:O	4:RI:85:GLN:NE2	2.32	0.62
4:RI:262:TYR:OH	3:RJ:391:ARG:O	2.16	0.62
4:SE:358:GLN:NE2	4:SE:359:PRO:O	2.32	0.62
3:SJ:77:ARG:O	3:SJ:77:ARG:NH1	2.30	0.62
3:SJ:132:GLY:HA2	3:SJ:162:ARG:HB3	1.80	0.62
3:TB:39:ASP:OD1	3:TB:43:GLN:NE2	2.31	0.62
3:TD:84:ILE:O	3:TD:86:ARG:NH1	2.32	0.62
4:UA:171:ILE:HD12	4:UA:204:VAL:HG13	1.79	0.62
4:UC:338:LYS:HZ2	4:UC:340:THR:H	1.47	0.62
3:UF:302:ALA:HB1	3:UF:377:LEU:HD11	1.80	0.62
3:VF:246:LEU:HB2	3:VF:352:ALA:HB1	1.80	0.62
3:VJ:286:VAL:HG21	3:VJ:325:GLU:HG3	1.81	0.62
33:W:275:GLN:HA	33:W:278:HIS:CD2	2.34	0.62
4:WG:207:GLU:HB2	4:WG:304:LYS:HZ1	1.63	0.62
3:WH:374:ILE:HG23	3:WH:377:LEU:HD12	1.82	0.62
4:WI:419:SER:HA	4:WI:422:ARG:HE	1.62	0.62
34:XF:82:ASN:ND2	34:XF:127:ASP:OD1	2.33	0.62
36:Z:481:LYS:HD2	36:Z:483:TYR:CE1	2.34	0.62
3:AB:278:SER:HA	3:AB:281:TYR:HB2	1.80	0.62
4:AC:68:VAL:HG12	4:AC:93:ILE:HB	1.80	0.62
4:AC:245:ASP:O	4:AC:356:ASN:ND2	2.32	0.62
3:AF:73:MET:HE1	3:AF:92:PHE:HB3	1.82	0.62
3:AL:299:MET:SD	3:AL:301:ALA:N	2.72	0.62
5:B7:389:LYS:HA	7:C8:337:TRP:CZ2	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BE:127:ASP:OD1	4:BE:128:LEU:N	2.32	0.62
4:BG:207:GLU:HB2	4:BG:304:LYS:HZ1	1.63	0.62
3:BL:80:PRO:O	3:BL:83:GLN:NE2	2.32	0.62
4:BM:33:ASP:OD1	4:BM:34:GLY:N	2.32	0.62
4:CC:139:HIS:HE1	4:CC:168:GLU:HB3	1.64	0.62
3:CD:273:LEU:H	3:CD:292:GLN:HE22	1.46	0.62
4:CK:216:ASN:HB2	4:CK:276:ILE:HD12	1.81	0.62
3:CL:250:LEU:O	3:CL:254:ALA:N	2.27	0.62
7:Ca:205:ARG:HH12	7:Ca:211:VAL:HG12	1.64	0.62
7:Cc:144:GLN:OE1	7:Cc:145:ASN:ND2	2.33	0.62
8:D3:175:GLU:O	8:D3:179:GLU:HG2	2.00	0.62
8:D4:363:ARG:NH1	8:D4:367:GLU:O	2.32	0.62
8:D7:249:GLU:OE1	8:D7:249:GLU:N	2.32	0.62
4:DA:317:MET:HE1	4:DA:351:PHE:HB2	1.80	0.62
3:DB:132:GLY:HA2	3:DB:162:ARG:HB3	1.82	0.62
3:DH:47:ILE:HG13	3:DH:51:TYR:HB2	1.80	0.62
4:DI:204:VAL:HG23	4:DI:302:MET:HG3	1.80	0.62
4:EA:54:SER:HB2	4:EA:62:VAL:HB	1.81	0.62
3:EH:111:GLU:HG2	3:EH:112:LEU:HD12	1.82	0.62
3:EJ:5:VAL:HG23	3:EJ:130:LEU:HD11	1.82	0.62
11:F2:402:ARG:HD2	11:F2:407:LEU:HD13	1.81	0.62
11:F6:277:ILE:HA	11:F7:390:LYS:HZ1	1.64	0.62
4:FC:34:GLY:HA2	4:FC:86:LEU:HD21	1.82	0.62
3:FH:322:SER:N	3:FH:325:GLU:OE2	2.32	0.62
4:FI:9:VAL:HG11	4:FI:150:ALA:HB2	1.81	0.62
11:Fc:201:ARG:HH12	11:Fc:464:ILE:HB	1.63	0.62
11:Fh:391:MET:HA	11:Fh:394:THR:HG23	1.81	0.62
13:G1:34:ARG:HH21	13:G1:39:VAL:HG11	1.65	0.62
14:G4:597:GLN:NE2	14:G4:598:GLU:OE1	2.31	0.62
4:GC:203:MET:HE1	4:GC:267:PHE:HB3	1.80	0.62
3:GD:194:GLU:OE1	3:GD:195:ASN:ND2	2.33	0.62
4:GI:388:TRP:HB3	4:GI:425:LEU:HD11	1.82	0.62
3:GJ:13:GLY:HA2	3:GJ:16:ILE:HB	1.80	0.62
4:HG:127:ASP:OD1	4:HG:128:LEU:N	2.32	0.62
4:HG:188:ILE:HA	4:HG:191:THR:OG1	1.99	0.62
4:HK:1:MET:SD	4:HK:2:ARG:N	2.72	0.62
4:HK:118:VAL:HA	4:HK:121:ARG:HG2	1.82	0.62
3:ID:117:LEU:HD11	3:ID:154:LYS:HD2	1.80	0.62
3:IF:12:CYS:SG	3:IF:13:GLY:N	2.73	0.62
4:JG:262:TYR:OH	3:JH:391:ARG:O	2.18	0.62
4:JI:7:ILE:N	4:JI:136:LEU:O	2.25	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JJ:322:SER:N	3:JJ:325:GLU:OE2	2.32	0.62
4:JK:101:ASN:HA	4:JK:144:GLY:HA2	1.82	0.62
20:K:12:MET:O	20:K:16:ASN:N	2.28	0.62
4:KA:32:PRO:O	4:KA:85:GLN:NE2	2.32	0.62
3:KB:50:TYR:HE2	3:KB:241:ARG:HH21	1.47	0.62
4:KC:60:LYS:HD3	4:LC:283:HIS:HB2	1.80	0.62
3:KF:292:GLN:O	3:KF:298:ASN:ND2	2.32	0.62
3:KH:214:THR:HG21	3:KH:273:LEU:HB3	1.81	0.62
4:KK:271:THR:O	4:KK:377:MET:N	2.19	0.62
3:KL:374:ILE:HG23	3:KL:377:LEU:HD12	1.80	0.62
39:KL:501:GTP:O3G	39:KL:501:GTP:O3'	2.16	0.62
22:L1:162:ASN:O	22:L1:166:LYS:N	2.31	0.62
3:LB:282:ARG:NH2	3:LB:292:GLN:OE1	2.25	0.62
4:LE:180:ALA:HB3	4:LE:183:GLU:HB2	1.81	0.62
4:LK:83:TYR:HB3	4:LK:86:LEU:HD12	1.82	0.62
4:LK:401:LYS:C	4:LK:402:ARG:HD3	2.24	0.62
3:MB:286:VAL:HG21	3:MB:325:GLU:HG3	1.80	0.62
3:MD:372:THR:HB	3:MD:375:GLN:HE22	1.65	0.62
4:MK:316:CYS:N	4:MK:378:LEU:O	2.28	0.62
26:N2:99:ILE:HG13	26:N2:100:GLU:N	2.15	0.62
4:NC:127:ASP:OD1	4:NC:128:LEU:N	2.32	0.62
4:OG:119:LEU:HA	4:OG:122:ILE:HG12	1.81	0.62
4:OG:208:ALA:H	4:OG:304:LYS:HZ1	1.44	0.62
4:OK:358:GLN:NE2	4:OK:359:PRO:O	2.31	0.62
4:PK:46:ASP:OD1	4:PK:50:ASN:ND2	2.30	0.62
3:QH:170:VAL:N	3:QH:202:ILE:O	2.29	0.62
31:R2:118:ARG:NH2	31:R2:146:ASP:OD1	2.33	0.62
3:RB:174:LYS:HG3	3:RB:175:VAL:HG12	1.81	0.62
4:RC:203:MET:HE1	4:RC:267:PHE:HB3	1.81	0.62
3:RF:3:GLU:HG2	3:RF:130:LEU:HD23	1.82	0.62
4:RG:46:ASP:OD1	4:RG:50:ASN:ND2	2.33	0.62
3:SB:7:LEU:HB3	3:SB:135:LEU:HG	1.80	0.62
3:SF:216:LYS:O	3:SF:276:ARG:NH2	2.30	0.62
3:SJ:271:ALA:HB1	3:SJ:272:PRO:HD2	1.81	0.62
4:SK:127:ASP:OD1	4:SK:128:LEU:N	2.33	0.62
32:T:350:VAL:HA	32:T:354:GLN:HE21	1.65	0.62
4:TI:34:GLY:HA2	4:TI:86:LEU:HD21	1.82	0.62
3:TJ:271:ALA:HA	3:TJ:293:MET:HE1	1.81	0.62
4:TK:50:ASN:O	4:TK:64:ARG:NH1	2.31	0.62
3:UB:324:LYS:NZ	4:UC:222:PRO:O	2.24	0.62
4:UG:338:LYS:HZ2	4:UG:340:THR:H	1.46	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UH:151:LEU:HD22	3:UH:154:LYS:HZ1	1.62	0.62
4:VC:144:GLY:N	39:VC:501:GTP:O2B	2.33	0.62
4:VE:53:PHE:O	4:VE:64:ARG:NH1	2.32	0.62
3:VF:132:GLY:HA3	3:VF:163:ILE:H	1.63	0.62
3:VH:46:ARG:HH12	4:VI:73:THR:HG23	1.63	0.62
3:VJ:132:GLY:HA2	3:VJ:162:ARG:HB3	1.80	0.62
3:WH:32:PRO:O	3:WH:83:GLN:NE2	2.29	0.62
33:X:519:LYS:HG2	33:X:544:ILE:HD12	1.80	0.62
34:XF:78:MET:H	34:XF:132:ILE:HB	1.64	0.62
34:XG:11:LEU:HD13	34:XG:71:ILE:HD12	1.82	0.62
35:XJ:100:LEU:HD21	35:XJ:152:THR:HG22	1.81	0.62
37:YE:161:LYS:HG3	37:YE:162:VAL:HG23	1.82	0.62
37:YL:22:GLN:HG3	37:YL:121:VAL:HG13	1.81	0.62
37:YO:21:GLN:OE1	37:YO:24:THR:OG1	2.16	0.62
37:YU:61:THR:HG22	37:YU:64:ARG:HH21	1.64	0.62
36:Z:308:LYS:O	36:Z:312:THR:N	2.31	0.62
2:A3:162:ARG:HE	13:G2:166:LYS:HZ2	1.46	0.62
3:AH:83:GLN:O	3:AH:86:ARG:NH2	2.32	0.62
3:AH:262:ARG:HH22	35:XK:231:MET:HG3	1.64	0.62
4:AI:46:ASP:OD1	4:AI:50:ASN:ND2	2.32	0.62
4:AI:172:TYR:N	4:AI:204:VAL:O	2.31	0.62
3:AJ:117:LEU:HD11	3:AJ:154:LYS:HD2	1.81	0.62
3:AJ:199:THR:N	3:AJ:264:HIS:O	2.32	0.62
4:AM:396:ASP:OD1	4:AM:397:LEU:N	2.32	0.62
3:BJ:257:MET:HG3	3:BJ:258:VAL:HG23	1.81	0.62
4:BK:101:ASN:HA	4:BK:144:GLY:HA2	1.80	0.62
4:BM:371:VAL:HG11	4:BM:374:ALA:HB2	1.81	0.62
6:C:113:THR:HG21	6:C:191:TRP:HB2	1.82	0.62
7:C4:322:ARG:O	7:C4:325:THR:OG1	2.17	0.62
7:C8:284:PHE:CZ	7:C9:401:ASP:HB2	2.34	0.62
3:CD:104:GLY:HA2	3:CD:108:GLU:HB2	1.81	0.62
4:CI:49:PHE:O	4:CI:53:PHE:N	2.31	0.62
8:D2:250:SER:HA	8:D3:370:ARG:NE	2.15	0.62
3:DH:286:VAL:HG21	3:DH:325:GLU:HG3	1.81	0.62
4:DK:226:ASN:HA	4:DK:229:ARG:HD3	1.80	0.62
4:EE:216:ASN:ND2	4:EE:275:VAL:O	2.33	0.62
4:EK:271:THR:HA	4:EK:302:MET:HE1	1.82	0.62
11:F6:366:GLN:HA	11:F6:369:PHE:CE2	2.35	0.62
4:FC:9:VAL:HG11	4:FC:150:ALA:HB2	1.80	0.62
3:FF:46:ARG:HH12	4:FG:73:THR:HG23	1.63	0.62
3:FH:309:ARG:HE	3:FH:426:GLN:HE21	1.48	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FH:412:GLU:HA	3:FH:415:MET:HE2	1.81	0.62
4:FI:54:SER:HB2	4:FI:62:VAL:HB	1.80	0.62
4:FK:49:PHE:O	4:FK:53:PHE:N	2.32	0.62
11:Fh:356:LYS:O	11:Fh:359:THR:OG1	2.17	0.62
11:Fk:304:ILE:O	11:Fk:308:GLN:NE2	2.32	0.62
11:Fm:356:LYS:O	11:Fm:360:GLN:NE2	2.33	0.62
14:G4:403:PHE:HA	14:G4:406:CYS:HB2	1.80	0.62
14:G5:436:TYR:HE2	14:G5:507:LEU:HB3	1.63	0.62
4:GA:89:PRO:HD2	4:HA:280:LYS:NZ	2.15	0.62
4:GA:273:ALA:HB2	4:GA:295:CYS:HB3	1.80	0.62
3:GD:273:LEU:H	3:GD:292:GLN:HE22	1.47	0.62
4:GE:54:SER:HB2	4:GE:62:VAL:HB	1.80	0.62
3:GF:324:LYS:HD2	4:GG:221:ARG:HA	1.82	0.62
3:GH:412:GLU:O	3:GH:416:ASN:N	2.27	0.62
4:GI:216:ASN:HB2	4:GI:276:ILE:HD12	1.80	0.62
4:GK:32:PRO:O	4:GK:85:GLN:NE2	2.32	0.62
4:HA:53:PHE:HB3	4:HA:61:HIS:HB3	1.80	0.62
3:HB:11:GLN:HE21	39:HB:501:GTP:H3'	1.64	0.62
4:HC:226:ASN:HD22	4:HC:229:ARG:HE	1.48	0.62
3:HF:114:ASP:OD1	3:HF:115:SER:N	2.33	0.62
4:HK:264:ARG:O	4:HK:266:HIS:ND1	2.31	0.62
3:IF:11:GLN:O	3:IF:15:GLN:NE2	2.33	0.62
4:IK:30:ILE:HA	4:IK:36:MET:HE1	1.81	0.62
3:IL:141:GLY:HA3	39:IL:501:GTP:H5"	1.82	0.62
3:JB:97:ALA:HA	3:JB:103:LYS:HZ2	1.65	0.62
3:JB:292:GLN:O	3:JB:298:ASN:ND2	2.31	0.62
3:JF:83:GLN:O	3:JF:86:ARG:NH2	2.32	0.62
3:JH:412:GLU:OE1	3:JH:416:ASN:ND2	2.32	0.62
4:JK:89:PRO:HD2	4:KK:280:LYS:HZ3	1.63	0.62
21:K1:376:GLY:O	21:K2:115:ARG:NH2	2.32	0.62
21:K2:383:LEU:HD21	21:K2:385:ARG:HE	1.64	0.62
21:K3:285:PRO:HB2	24:M2:77:CYS:SG	2.39	0.62
4:KE:46:ASP:OD1	4:KE:50:ASN:ND2	2.33	0.62
3:KH:295:ASP:HB2	3:KH:298:ASN:HB2	1.82	0.62
3:KL:58:LYS:HE3	3:LL:281:TYR:HD1	1.63	0.62
22:L3:146:ILE:HD11	4:MK:386:GLU:HA	1.82	0.62
4:LG:1:MET:SD	4:LG:2:ARG:N	2.73	0.62
3:LJ:2:ARG:HB3	3:LJ:131:GLN:NE2	2.14	0.62
3:LJ:48:ASN:O	3:LJ:62:ARG:NH2	2.25	0.62
3:LL:174:LYS:HG3	3:LL:175:VAL:HG12	1.80	0.62
3:MH:357:PRO:HB3	3:MH:362:LYS:HA	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MJ:372:THR:HG21	3:MJ:426:GLN:HG3	1.82	0.62
4:MK:264:ARG:NH2	28:O3:45:ASP:OD2	2.32	0.62
3:ML:170:VAL:N	3:ML:202:ILE:O	2.29	0.62
3:ND:302:ALA:HB1	3:ND:377:LEU:HD11	1.82	0.62
4:NG:53:PHE:O	4:NG:64:ARG:NH1	2.33	0.62
3:NH:249:ASP:O	3:NH:252:LYS:HB2	1.98	0.62
3:NL:107:THR:OG1	3:NL:401:GLU:OE2	2.17	0.62
3:OF:83:GLN:O	3:OF:86:ARG:NH2	2.33	0.62
3:OH:302:ALA:HB1	3:OH:377:LEU:HD21	1.80	0.62
4:OI:88:HIS:HB3	4:OI:91:GLN:CB	2.30	0.62
29:P1:417:ARG:NH2	4:WE:364:PRO:O	2.33	0.62
29:P3:161:ALA:HA	29:P3:178:GLY:HA3	1.81	0.62
3:PD:141:GLY:HA3	39:PD:501:GTP:H5"	1.81	0.62
4:PI:91:GLN:HG3	4:PI:121:ARG:HH21	1.65	0.62
4:PI:127:ASP:OD1	4:PI:128:LEU:N	2.33	0.62
3:QB:211:CYS:HA	3:QB:215:LEU:HB2	1.81	0.62
3:QB:324:LYS:NZ	4:QC:222:PRO:O	2.16	0.62
4:QI:203:MET:SD	4:QI:203:MET:N	2.69	0.62
3:RD:173:PRO:HD3	3:RD:203:ASP:OD1	1.99	0.62
4:RG:371:VAL:HG11	4:RG:374:ALA:HB2	1.81	0.62
4:RG:415:GLU:OE1	4:RG:419:SER:OG	2.16	0.62
4:SE:42:ILE:HB	36:Z:489:LYS:HD2	1.80	0.62
3:SF:83:GLN:O	3:SF:86:ARG:NH2	2.32	0.62
3:SL:317:PHE:O	3:SL:354:CYS:N	2.26	0.62
3:TJ:84:ILE:O	3:TJ:86:ARG:NH1	2.32	0.62
33:U:405:LYS:O	33:U:409:ASN:ND2	2.32	0.62
3:UB:412:GLU:OE1	3:UB:416:ASN:ND2	2.32	0.62
4:UC:30:ILE:HA	4:UC:36:MET:HE1	1.82	0.62
3:UF:83:GLN:O	3:UF:86:ARG:NH2	2.32	0.62
3:UF:357:PRO:HB3	3:UF:362:LYS:HA	1.82	0.62
4:UG:285:GLN:HE22	4:UG:287:SER:HB3	1.64	0.62
3:VF:2:ARG:HB3	3:VF:131:GLN:NE2	2.15	0.62
4:VI:1:MET:SD	4:VI:2:ARG:N	2.73	0.62
4:WC:49:PHE:O	4:WC:53:PHE:N	2.32	0.62
3:WL:286:VAL:HG21	3:WL:325:GLU:HG3	1.81	0.62
36:Y:147:LYS:HG3	36:Z:467:LYS:HE2	1.82	0.62
38:a:58:GLU:O	38:a:62:SER:N	2.30	0.62
3:AB:2:ARG:HA	3:AB:129:CYS:O	1.99	0.62
5:B2:7:LYS:HZ2	8:D5:326:LEU:HA	1.64	0.62
5:B4:30:ARG:NH1	5:B4:31:GLN:OE1	2.32	0.62
4:BE:108:TYR:O	4:BE:112:LYS:NZ	2.24	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BE:396:ASP:OD1	4:BE:397:LEU:N	2.32	0.62
3:CF:317:PHE:O	3:CF:354:CYS:N	2.29	0.62
3:CH:130:LEU:HB2	3:CH:162:ARG:HH11	1.65	0.62
3:CJ:197:ASP:OD1	3:CJ:198:GLU:N	2.32	0.62
4:CK:8:HIS:CE1	4:CK:21:TRP:HH2	2.18	0.62
7:Cc:444:THR:O	7:Cc:448:LEU:HG	2.00	0.62
8:D2:75:GLU:HA	8:D2:78:ARG:HE	1.64	0.62
8:D4:111:HIS:HA	8:D4:114:LYS:HD3	1.81	0.62
8:D4:365:ASN:OD1	10:E2:10:ARG:NH2	2.32	0.62
4:DC:154:MET:HE1	4:DC:197:HIS:HB2	1.82	0.62
3:EB:132:GLY:HA2	3:EB:162:ARG:HB3	1.82	0.62
4:EC:98:ASP:O	4:EC:105:ARG:NH2	2.26	0.62
4:EK:286:LEU:HD11	4:EK:373:ARG:H	1.65	0.62
11:F3:426:THR:HG21	11:F4:131:ILE:HD11	1.81	0.62
11:F5:96:ASP:OD2	11:F5:97:ARG:NH2	2.32	0.62
11:F5:277:ILE:HG13	11:F6:394:THR:HG21	1.80	0.62
11:F9:204:ILE:HD12	11:Fa:89:ARG:HH22	1.63	0.62
4:FC:154:MET:SD	4:FC:197:HIS:NE2	2.72	0.62
3:FF:271:ALA:HA	3:FF:292:GLN:HE22	1.64	0.62
3:FH:3:GLU:O	3:FH:130:LEU:HD12	2.00	0.62
11:Fc:98:SER:HA	11:Fc:101:LEU:HD12	1.81	0.62
11:Fl:378:LEU:HD21	11:Fl:430:LEU:HD12	1.82	0.62
13:G1:25:PHE:HB2	4:LC:357:TYR:CE1	2.33	0.62
3:GH:170:VAL:N	3:GH:202:ILE:O	2.29	0.62
15:H2:292:MET:HG3	15:H2:293:GLN:H	1.62	0.62
15:H2:302:ASN:O	15:H2:306:ARG:N	2.24	0.62
15:H3:307:ALA:O	15:H3:311:GLU:N	2.30	0.62
4:HC:166:LYS:HG3	4:HC:168:GLU:OE2	2.00	0.62
3:HF:253:LEU:HB3	3:HF:257:MET:HE1	1.80	0.62
3:HJ:11:GLN:HE21	39:HJ:501:GTP:H3'	1.63	0.62
3:ID:324:LYS:HD2	4:IE:221:ARG:HA	1.81	0.62
3:IF:132:GLY:HA2	3:IF:162:ARG:HB3	1.81	0.62
3:JB:46:ARG:HH12	4:JC:73:THR:HG23	1.64	0.62
4:JC:49:PHE:O	4:JC:53:PHE:N	2.33	0.62
3:JD:292:GLN:O	3:JD:298:ASN:ND2	2.30	0.62
3:JD:317:PHE:HB3	3:JD:321:MET:HE3	1.80	0.62
3:JF:318:ARG:HD3	3:JF:358:PRO:HG3	1.81	0.62
3:KF:246:LEU:HB2	3:KF:352:ALA:HB1	1.81	0.62
3:KH:12:CYS:HA	39:KH:501:GTP:N2	2.15	0.62
4:LA:206:ASN:HA	4:LA:209:ILE:HD12	1.82	0.62
3:LB:84:ILE:O	3:LB:86:ARG:NH1	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LB:131:GLN:HB3	3:LB:163:ILE:HD12	1.81	0.62
3:LH:84:ILE:O	3:LH:86:ARG:NH1	2.33	0.62
4:LI:223:THR:OG1	4:LI:225:THR:OG1	2.13	0.62
3:LJ:12:CYS:SG	39:LJ:501:GTP:H5'	2.40	0.62
3:LJ:77:ARG:O	3:LJ:77:ARG:NH1	2.31	0.62
3:MF:412:GLU:OE1	3:MF:416:ASN:ND2	2.32	0.62
4:MI:5:ILE:HD13	4:MI:64:ARG:HB3	1.82	0.62
3:MJ:269:GLY:N	3:MJ:367:PHE:O	2.33	0.62
4:MK:211:ASP:O	4:MK:214:ARG:NH1	2.32	0.62
4:NE:192:HIS:HA	4:NE:195:LEU:HD23	1.81	0.62
3:NF:4:ILE:HD11	3:NF:131:GLN:HB2	1.80	0.62
3:NH:247:ASN:HB3	3:NH:252:LYS:HD2	1.80	0.62
4:NI:127:ASP:OD1	4:NI:128:LEU:N	2.32	0.62
4:NK:23:LEU:HD21	4:NK:229:ARG:HD2	1.81	0.62
4:OC:91:GLN:HG3	4:OC:121:ARG:HH21	1.65	0.62
3:OF:132:GLY:HA3	3:OF:163:ILE:H	1.65	0.62
4:OI:34:GLY:HA2	4:OI:86:LEU:HD21	1.82	0.62
3:PD:32:PRO:O	3:PD:83:GLN:NE2	2.24	0.62
4:PE:91:GLN:HG3	4:PE:121:ARG:HH21	1.65	0.62
3:PF:309:ARG:HE	3:PF:426:GLN:HE21	1.45	0.62
3:PL:111:GLU:HG2	3:PL:112:LEU:HD12	1.82	0.62
4:PM:414:GLU:CD	4:PM:416:GLY:H	2.06	0.62
30:Q3:1372:LEU:HB3	30:Q3:1374:ILE:HG12	1.81	0.62
3:QD:7:LEU:HB2	3:QD:135:LEU:HG	1.82	0.62
4:QI:161:TYR:O	4:QI:166:LYS:NZ	2.30	0.62
4:QK:46:ASP:OD1	4:QK:50:ASN:ND2	2.31	0.62
4:QK:236:SER:O	4:QK:243:ARG:NH2	2.30	0.62
4:QM:185:TYR:OH	4:QM:403:ALA:O	2.13	0.62
27:R:319:ALA:O	27:R:323:HIS:ND1	2.32	0.62
3:RF:178:THR:HB	3:RF:181:GLU:HB2	1.81	0.62
4:RI:207:GLU:HB2	4:RI:304:LYS:HZ1	1.63	0.62
3:SB:357:PRO:HB3	3:SB:362:LYS:HA	1.81	0.62
3:SJ:13:GLY:HA2	3:SJ:16:ILE:HB	1.80	0.62
4:SK:144:GLY:N	39:SK:501:GTP:O2B	2.31	0.62
3:TD:132:GLY:HA3	3:TD:163:ILE:H	1.64	0.62
3:TD:357:PRO:HB3	3:TD:362:LYS:HA	1.81	0.62
4:TE:108:TYR:O	4:TE:112:LYS:NZ	2.24	0.62
3:TL:170:VAL:N	3:TL:202:ILE:O	2.30	0.62
4:UE:53:PHE:O	4:UE:64:ARG:NH1	2.32	0.62
3:UH:391:ARG:HG2	3:UH:391:ARG:O	2.00	0.62
4:UI:12:ALA:HB2	39:UI:501:GTP:H5"	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UJ:357:PRO:HB3	3:UJ:362:LYS:HA	1.81	0.62
4:UK:102:ASN:ND2	4:UK:411:GLU:OE2	2.32	0.62
3:UL:132:GLY:HA3	3:UL:163:ILE:H	1.64	0.62
3:VB:246:LEU:HB2	3:VB:352:ALA:HB1	1.82	0.62
3:WB:100:ASN:HB3	3:WB:103:LYS:HB2	1.81	0.62
2:A4:214:LEU:O	2:A4:218:LEU:HG	1.99	0.62
4:AG:395:PHE:HA	4:AG:398:MET:HE2	1.82	0.62
3:AH:33:THR:O	3:AH:58:LYS:NZ	2.32	0.62
3:AJ:187:LEU:HD21	3:AJ:408:PHE:HE1	1.65	0.62
4:BE:54:SER:HB2	4:BE:62:VAL:HB	1.80	0.62
4:BI:207:GLU:HB2	4:BI:304:LYS:HZ1	1.65	0.62
6:C:333:GLN:H	6:C:336:PRO:HG3	1.64	0.62
7:C1:123:ASP:OD1	7:C1:126:ARG:NH2	2.32	0.62
7:C6:262:GLN:HA	7:C6:265:LEU:HD13	1.80	0.62
7:C9:227:LEU:HD13	7:C9:230:GLN:HE21	1.65	0.62
4:CC:67:PHE:O	4:CC:93:ILE:N	2.33	0.62
3:CL:211:CYS:HA	3:CL:215:LEU:HB2	1.81	0.62
7:Cb:430:THR:HG23	7:Cc:131:LYS:NZ	2.15	0.62
8:D2:269:GLU:HG2	8:D2:272:ARG:HH21	1.65	0.62
8:D4:311:LEU:O	8:D4:314:SER:OG	2.15	0.62
8:D9:402:LEU:HA	8:D9:405:LEU:HD12	1.82	0.62
4:DA:49:PHE:HB2	4:DA:53:PHE:HB2	1.82	0.62
4:DC:15:GLN:OE1	39:DC:501:GTP:N1	2.29	0.62
4:DC:101:ASN:HA	4:DC:144:GLY:HA2	1.82	0.62
3:DF:174:LYS:HG3	3:DF:175:VAL:HG12	1.80	0.62
3:DF:250:LEU:O	3:DF:254:ALA:N	2.24	0.62
3:DF:420:SER:O	3:DF:424:GLN:N	2.27	0.62
4:DG:245:ASP:O	4:DG:356:ASN:ND2	2.32	0.62
9:E:589:ALA:O	9:E:593:TYR:N	2.31	0.62
4:EE:9:VAL:HG22	4:EE:146:GLY:HA2	1.81	0.62
11:F2:206:LEU:O	11:F3:89:ARG:NH2	2.33	0.62
4:FA:388:TRP:HB3	4:FA:425:LEU:HD11	1.80	0.62
3:FB:12:CYS:HA	39:FB:501:GTP:HN22	1.65	0.62
3:FH:4:ILE:HD11	3:FH:131:GLN:HB2	1.81	0.62
11:Fg:415:ARG:O	11:Fg:419:GLU:HG2	2.00	0.62
14:G4:238:ASP:OD2	14:G4:247:ARG:NH1	2.33	0.62
4:GA:208:ALA:H	4:GA:304:LYS:HZ1	1.48	0.62
4:GA:351:PHE:CZ	3:GB:175:VAL:HB	2.35	0.62
4:GG:33:ASP:OD1	4:GG:34:GLY:N	2.33	0.62
4:HC:402:ARG:HH11	4:HC:405:VAL:HG22	1.65	0.62
4:HG:192:HIS:HA	4:HG:195:LEU:HD23	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HL:107:THR:OG1	3:HL:401:GLU:OE2	2.15	0.62
3:HL:309:ARG:H	3:HL:372:THR:HG1	1.45	0.62
3:ID:12:CYS:HA	39:ID:501:GTP:N2	2.13	0.62
4:IG:9:VAL:HG11	4:IG:150:ALA:HB2	1.82	0.62
4:IG:101:ASN:HA	4:IG:144:GLY:HA2	1.80	0.62
4:II:67:PHE:HB2	4:II:92:LEU:HD13	1.82	0.62
4:II:427:ALA:HA	4:II:430:LYS:NZ	2.15	0.62
4:IM:127:ASP:OD1	4:IM:128:LEU:N	2.33	0.62
4:IM:171:ILE:HD12	4:IM:204:VAL:HG13	1.81	0.62
19:J2:134:TRP:O	19:J2:137:THR:OG1	2.15	0.62
4:JC:316:CYS:N	4:JC:378:LEU:O	2.26	0.62
3:JD:322:SER:N	3:JD:325:GLU:OE2	2.31	0.62
21:K2:285:PRO:HB2	24:M1:77:CYS:SG	2.40	0.62
21:K2:472:VAL:HG22	4:KC:163:LYS:HE3	1.80	0.62
4:KC:53:PHE:O	4:KC:64:ARG:NH1	2.32	0.62
4:KI:33:ASP:OD1	4:KI:34:GLY:N	2.33	0.62
22:L2:190:ASP:HA	22:L2:193:ARG:HE	1.63	0.62
22:L3:190:ASP:HA	22:L3:193:ARG:HH11	1.65	0.62
3:LB:269:GLY:HA3	3:LB:367:PHE:HB3	1.82	0.62
4:LE:245:ASP:O	4:LE:356:ASN:ND2	2.32	0.62
4:LG:68:VAL:HA	4:LG:93:ILE:HB	1.81	0.62
3:LJ:111:GLU:HG2	3:LJ:112:LEU:HD12	1.82	0.62
3:LJ:304:ASP:O	3:LJ:307:HIS:ND1	2.29	0.62
3:MB:65:LEU:HD21	3:MB:73:MET:HG2	1.81	0.62
3:MF:250:LEU:O	3:MF:254:ALA:N	2.28	0.62
4:NE:125:LEU:HD13	4:NE:128:LEU:HD21	1.82	0.62
4:NK:127:ASP:OD1	4:NK:128:LEU:N	2.32	0.62
4:NK:218:ASP:OD2	4:NK:280:LYS:NZ	2.33	0.62
3:OB:302:ALA:HB1	3:OB:377:LEU:HD11	1.81	0.62
3:OF:216:LYS:O	3:OF:276:ARG:NH2	2.33	0.62
3:OH:372:THR:HB	3:OH:375:GLN:HE22	1.63	0.62
27:P:367:ASP:OD1	27:P:368:TYR:N	2.33	0.62
3:PB:33:THR:O	3:PB:58:LYS:NZ	2.32	0.62
3:PD:15:GLN:HG2	3:PD:222:TYR:HE2	1.64	0.62
3:PJ:250:LEU:O	3:PJ:254:ALA:N	2.28	0.62
4:PK:102:ASN:HB3	4:PK:105:ARG:HB2	1.80	0.62
4:QE:50:ASN:O	4:QE:64:ARG:NH1	2.32	0.62
4:QK:358:GLN:NE2	4:QK:359:PRO:O	2.33	0.62
3:RD:28:HIS:ND1	3:RD:43:GLN:HB2	2.15	0.62
3:RF:374:ILE:HA	3:RF:377:LEU:HD13	1.80	0.62
3:RH:375:GLN:HA	3:RH:378:PHE:CZ	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:SG:301:GLN:HG3	4:SG:303:VAL:H	1.65	0.62
4:SG:433:GLU:O	4:SG:437:VAL:N	2.32	0.62
3:SH:54:ALA:HB3	3:SH:58:LYS:HB3	1.81	0.62
3:SH:111:GLU:HG2	3:SH:112:LEU:HD12	1.82	0.62
3:SJ:151:LEU:HD13	3:SJ:154:LYS:HD2	1.80	0.62
3:TH:328:GLU:O	3:TH:332:ASN:N	2.28	0.62
4:TI:107:HIS:HA	4:TI:152:LEU:HD23	1.82	0.62
4:TI:192:HIS:HA	4:TI:195:LEU:HD23	1.79	0.62
4:TK:419:SER:HA	4:TK:422:ARG:HE	1.65	0.62
33:U:231:MET:SD	3:UJ:362:LYS:NZ	2.65	0.62
33:X:455:GLU:OE1	33:X:456:GLN:NE2	2.32	0.62
34:XE:91:VAL:HG23	34:XE:154:VAL:HG22	1.80	0.62
37:YD:33:ARG:NH2	37:YD:134:TYR:OH	2.33	0.62
37:YG:61:THR:HG22	37:YG:64:ARG:HH21	1.65	0.62
37:YL:114:ARG:NH2	37:YL:133:HIS:O	2.32	0.62
3:AF:372:THR:HB	3:AF:375:GLN:HE22	1.65	0.62
5:B4:389:LYS:HA	5:B4:408:VAL:HG11	1.82	0.62
4:BE:208:ALA:N	4:BE:304:LYS:HZ1	1.98	0.62
3:BJ:5:VAL:HG23	3:BJ:130:LEU:HD21	1.82	0.62
4:BK:88:HIS:HE1	4:BK:90:GLU:HG2	1.65	0.62
6:C:267:ALA:HA	6:C:270:GLU:HG2	1.82	0.62
6:C:308:LYS:NZ	3:ID:38:GLY:O	2.22	0.62
7:C7:118:GLU:OE2	7:C7:121:ARG:NH1	2.32	0.62
7:C8:103:ASN:OD1	7:C8:104:LEU:N	2.33	0.62
4:CG:52:PHE:HZ	4:CG:239:THR:HB	1.65	0.62
3:CH:378:PHE:HA	3:CH:381:ILE:HG22	1.82	0.62
4:CI:203:MET:SD	4:CI:203:MET:N	2.72	0.62
3:CL:111:GLU:HG2	3:CL:112:LEU:HD12	1.80	0.62
4:CM:143:GLY:O	4:CM:147:SER:OG	2.15	0.62
7:Ca:370:GLN:HE22	7:Ca:373:PHE:HD2	1.48	0.62
7:Cb:394:LYS:HD3	7:Cb:397:GLN:HE21	1.63	0.62
8:D7:148:PRO:HA	8:D7:151:ILE:HD12	1.80	0.62
8:D7:344:LYS:O	8:D7:347:GLU:HG3	2.00	0.62
8:D9:332:GLN:NE2	8:Da:78:ARG:HD3	2.14	0.62
4:DC:264:ARG:O	4:DC:266:HIS:ND1	2.33	0.62
3:DD:46:ARG:HH12	4:DE:73:THR:HG23	1.65	0.62
4:DE:30:ILE:HA	4:DE:36:MET:HE1	1.81	0.62
3:DL:117:LEU:HD11	3:DL:154:LYS:HD2	1.80	0.62
4:EE:221:ARG:HB3	15:H3:296:TYR:HD2	1.64	0.62
11:F4:251:GLU:OE1	11:F8:200:LYS:NZ	2.32	0.62
11:F5:128:ASP:OD2	11:Fa:158:TYR:OH	2.18	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:F6:93:ARG:O	11:F6:97:ARG:NH1	2.33	0.62
4:FC:208:ALA:H	4:FC:304:LYS:HZ1	1.46	0.62
4:FC:388:TRP:HB3	4:FC:425:LEU:HD11	1.82	0.62
3:FF:317:PHE:O	3:FF:354:CYS:N	2.25	0.62
4:FK:346:TRP:HB3	3:FL:391:ARG:HE	1.63	0.62
11:Fa:385:LYS:NZ	11:Fb:128:ASP:OD1	2.28	0.62
11:Fc:96:ASP:OD2	11:Fc:97:ARG:NH2	2.33	0.62
11:Fj:315:ILE:HG12	11:Fj:318:ARG:HH21	1.64	0.62
11:Fk:254:ILE:HA	11:Fk:257:LYS:HG2	1.82	0.62
13:G3:39:VAL:HB	13:G3:41:ARG:HH22	1.65	0.62
14:G4:336:GLN:OE1	14:G4:368:TYR:OH	2.17	0.62
14:G6:87:ASP:OD1	14:G6:100:ARG:NH1	2.33	0.62
14:G6:132:ARG:HB2	14:G6:134:GLN:HE22	1.64	0.62
3:GB:111:GLU:HG2	3:GB:112:LEU:HD12	1.82	0.62
4:GI:33:ASP:OD1	4:GI:34:GLY:N	2.33	0.62
3:GJ:316:VAL:HG22	3:GJ:352:ALA:HB3	1.81	0.62
3:HB:174:LYS:HG3	3:HB:175:VAL:HG13	1.82	0.62
4:HC:32:PRO:O	4:HC:85:GLN:NE2	2.32	0.62
3:HJ:205:GLU:HA	3:HJ:208:TYR:CD2	2.35	0.62
4:IA:108:TYR:O	4:IA:112:LYS:NZ	2.29	0.62
4:IE:70:LEU:HB3	4:IE:97:GLU:O	1.99	0.62
4:IG:208:ALA:H	4:IG:304:LYS:HZ1	1.46	0.62
3:IH:141:GLY:HA3	39:IH:501:GTP:H5"	1.80	0.62
3:IH:174:LYS:HG3	3:IH:175:VAL:HG13	1.80	0.62
3:IH:324:LYS:NZ	4:II:222:PRO:O	2.25	0.62
4:IK:285:GLN:HE22	4:IK:287:SER:HB3	1.65	0.62
4:IK:396:ASP:OD1	4:IK:397:LEU:N	2.33	0.62
4:JC:2:ARG:HA	4:JC:133:GLN:HE22	1.64	0.62
4:JE:125:LEU:HD13	4:JE:128:LEU:HD21	1.81	0.62
4:JI:6:SER:HA	4:JI:136:LEU:HB2	1.82	0.62
20:K:219:LYS:HG2	20:K:268:MET:HE1	1.82	0.62
4:KE:396:ASP:OD1	4:KE:397:LEU:N	2.33	0.62
22:L2:113:VAL:HG11	4:LG:405:VAL:HG23	1.82	0.62
22:L3:209:LYS:O	22:L3:212:GLN:HG3	2.00	0.62
3:LB:111:GLU:HG2	3:LB:112:LEU:HD12	1.81	0.62
3:LB:317:PHE:HB3	3:LB:321:MET:HE3	1.81	0.62
4:LC:60:LYS:HE3	4:LC:86:LEU:HA	1.81	0.62
3:LF:323:MET:SD	3:LF:323:MET:N	2.72	0.62
3:LF:412:GLU:OE1	3:LF:416:ASN:ND2	2.33	0.62
3:MB:4:ILE:HD11	3:MB:131:GLN:HB2	1.81	0.62
4:MC:12:ALA:HB2	39:MC:501:GTP:H5"	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ND:250:LEU:O	3:ND:254:ALA:N	2.29	0.62
3:NF:322:SER:OG	3:NF:324:LYS:NZ	2.33	0.62
3:NJ:302:ALA:HB1	3:NJ:377:LEU:HD11	1.81	0.62
4:OC:216:ASN:ND2	4:OC:275:VAL:O	2.33	0.62
4:OE:1:MET:SD	4:OE:2:ARG:N	2.72	0.62
4:OE:6:SER:HA	4:OE:136:LEU:HB2	1.81	0.62
3:OF:284:LEU:HD23	3:OF:363:MET:HE2	1.80	0.62
3:OF:316:VAL:HG22	3:OF:352:ALA:HB3	1.82	0.62
4:OG:53:PHE:O	4:OG:64:ARG:NH1	2.32	0.62
4:OK:49:PHE:O	4:OK:53:PHE:N	2.32	0.62
4:OK:53:PHE:O	4:OK:64:ARG:NH1	2.33	0.62
3:PD:302:ALA:HB1	3:PD:377:LEU:HD11	1.80	0.62
4:PE:50:ASN:O	4:PE:64:ARG:NH1	2.32	0.62
3:PH:421:GLU:HG2	3:PH:425:TYR:HE2	1.65	0.62
4:PK:125:LEU:HD13	4:PK:128:LEU:HD21	1.82	0.62
30:Q2:1452:ARG:NH1	30:Q2:1456:ARG:HB2	2.15	0.62
3:QB:11:GLN:HE21	39:QB:501:GTP:H3'	1.65	0.62
3:QH:83:GLN:O	3:QH:86:ARG:NH2	2.33	0.62
31:R2:118:ARG:HB2	31:R2:123:MET:HE3	1.81	0.62
3:RB:245:GLN:HE22	4:RC:15:GLN:HE22	1.47	0.62
3:RJ:84:ILE:O	3:RJ:86:ARG:NH1	2.32	0.62
3:RJ:246:LEU:HB2	3:RJ:352:ALA:HB1	1.82	0.62
4:RK:172:TYR:HD1	4:RK:203:MET:HG2	1.65	0.62
4:SG:144:GLY:N	39:SG:501:GTP:O2B	2.32	0.62
3:SH:389:PHE:HZ	3:SH:405:GLU:HG2	1.65	0.62
3:SJ:12:CYS:HA	39:SJ:501:GTP:HN22	1.64	0.62
4:TC:216:ASN:ND2	4:TC:275:VAL:O	2.33	0.62
3:TF:33:THR:O	3:TF:58:LYS:NZ	2.33	0.62
4:UC:53:PHE:O	4:UC:64:ARG:NH1	2.33	0.62
4:UG:187:SER:O	4:UG:190:THR:OG1	2.17	0.62
4:UI:54:SER:HB2	4:UI:62:VAL:HB	1.82	0.62
3:UL:143:THR:HG22	3:UL:147:MET:HE2	1.81	0.62
4:VC:46:ASP:OD1	4:VC:50:ASN:ND2	2.32	0.62
3:VD:317:PHE:HB3	3:VD:321:MET:HE3	1.82	0.62
4:VG:50:ASN:O	4:VG:64:ARG:NH1	2.33	0.62
4:VG:245:ASP:O	4:VG:356:ASN:ND2	2.32	0.62
3:VJ:421:GLU:HG2	3:VJ:425:TYR:CE2	2.34	0.62
4:WI:161:TYR:O	4:WI:166:LYS:NZ	2.33	0.62
35:XK:141:LEU:HB3	35:XK:180:ILE:HD13	1.82	0.62
38:a:66:LEU:O	38:a:70:ARG:N	2.28	0.62
3:AB:173:PRO:O	3:AB:380:ARG:NH2	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:402:ARG:HH21	35:XI:233:PRO:HG2	1.64	0.62
3:AJ:235:GLY:O	3:AJ:238:THR:OG1	2.17	0.62
5:B3:270:ARG:HH12	5:B3:274:SER:HB2	1.65	0.62
5:B3:317:ARG:NH2	5:B4:192:LEU:O	2.33	0.62
4:BC:130:THR:HA	14:G4:314:ARG:HH12	1.64	0.62
3:BF:330:MET:HG3	3:BF:349:VAL:HG11	1.82	0.62
4:BI:338:LYS:HZ2	4:BI:340:THR:H	1.48	0.62
7:C8:369:LEU:HD23	7:C8:373:PHE:CE2	2.35	0.62
4:CE:12:ALA:HB1	39:CE:501:GTP:C2	2.35	0.62
4:CG:315:CYS:HB2	4:CG:343:PHE:HZ	1.65	0.62
4:CI:20:CYS:O	4:CI:24:TYR:N	2.32	0.62
3:CJ:292:GLN:O	3:CJ:298:ASN:ND2	2.31	0.62
3:CJ:304:ASP:O	3:CJ:307:HIS:ND1	2.32	0.62
4:CK:245:ASP:O	4:CK:356:ASN:ND2	2.33	0.62
3:CL:289:LEU:HD21	3:CL:363:MET:HB3	1.81	0.62
3:CL:357:PRO:HB3	3:CL:362:LYS:HA	1.81	0.62
8:D3:111:HIS:HA	8:D3:114:LYS:HD3	1.81	0.62
4:DA:315:CYS:N	4:DA:350:GLY:O	2.33	0.62
3:DD:48:ASN:O	3:DD:62:ARG:NH2	2.27	0.62
4:DK:32:PRO:O	4:DK:85:GLN:NE2	2.32	0.62
3:DL:114:ASP:OD1	3:DL:115:SER:N	2.32	0.62
4:EA:396:ASP:OD1	4:EA:397:LEU:N	2.33	0.62
3:ED:130:LEU:HB2	3:ED:162:ARG:HH11	1.65	0.62
3:EF:250:LEU:O	3:EF:254:ALA:N	2.30	0.62
4:EG:219:ILE:HD12	15:H4:299:THR:HA	1.82	0.62
3:EJ:214:THR:O	3:EJ:276:ARG:NH1	2.19	0.62
11:F2:142:LEU:HD22	11:F2:268:PHE:CG	2.35	0.62
11:F3:197:ASN:HA	11:F3:200:LYS:HD2	1.82	0.62
3:FD:215:LEU:HD11	3:FD:228:LEU:HD11	1.82	0.62
3:FF:132:GLY:HA3	3:FF:163:ILE:HG22	1.81	0.62
3:FJ:46:ARG:NH1	4:FK:73:THR:OG1	2.33	0.62
11:Fj:306:HIS:O	11:Fj:310:MET:HG3	2.00	0.62
13:G2:193:PHE:HD2	13:G2:194:LEU:HD22	1.63	0.62
3:GD:282:ARG:NH2	3:GD:292:GLN:OE1	2.25	0.62
4:GE:88:HIS:CE1	4:GE:121:ARG:HH22	2.18	0.62
3:GL:117:LEU:HA	3:GL:120:VAL:HG22	1.81	0.62
15:H6:283:PRO:HA	15:H6:300:PHE:CD2	2.34	0.62
4:HA:390:ARG:HA	4:HA:393:HIS:CD2	2.35	0.62
4:HC:171:ILE:HD12	4:HC:204:VAL:HG23	1.81	0.62
3:HF:58:LYS:HE2	3:IF:281:TYR:HE1	1.65	0.62
3:HF:70:PRO:HA	3:HF:73:MET:HE3	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:IE:53:PHE:O	4:IE:64:ARG:NH1	2.33	0.62
3:IL:302:ALA:HB1	3:IL:377:LEU:HD21	1.81	0.62
3:IL:385:PHE:HB3	3:IL:408:PHE:HZ	1.64	0.62
19:J2:167:MET:HA	19:J2:177:ASN:H	1.64	0.62
3:JL:327:ASP:HA	3:JL:330:MET:HE2	1.82	0.62
21:K2:44:VAL:O	21:K2:108:ARG:NH2	2.30	0.62
21:K2:261:ARG:HE	21:K2:276:GLN:HA	1.65	0.62
21:K4:184:TYR:O	21:K4:190:LYS:NZ	2.32	0.62
21:K4:351:THR:HA	21:K4:354:LEU:HD12	1.82	0.62
3:KD:216:LYS:HD2	38:a:32:HIS:CE1	2.35	0.62
4:LC:49:PHE:O	4:LC:53:PHE:N	2.33	0.62
4:LE:281:ALA:HB3	4:LE:370:LYS:HZ3	1.63	0.62
3:MB:328:GLU:OE1	3:MB:332:ASN:ND2	2.33	0.62
3:MH:28:HIS:HD2	3:MH:43:GLN:HB2	1.64	0.62
3:MH:324:LYS:HD2	4:MI:221:ARG:HA	1.82	0.62
3:MJ:211:CYS:HA	3:MJ:215:LEU:HB2	1.81	0.62
4:MM:46:ASP:OD1	4:MM:50:ASN:ND2	2.31	0.62
3:ND:2:ARG:HB3	3:ND:131:GLN:NE2	2.15	0.62
4:NG:216:ASN:HB2	4:NG:276:ILE:HD12	1.80	0.62
3:NH:309:ARG:O	3:NH:371:SER:OG	2.17	0.62
4:NK:161:TYR:O	4:NK:166:LYS:NZ	2.30	0.62
4:NK:188:ILE:HG22	4:NK:421:ALA:HB1	1.82	0.62
4:OE:358:GLN:NE2	4:OE:359:PRO:O	2.31	0.62
3:OF:100:ASN:HB3	3:OF:103:LYS:HB2	1.82	0.62
4:OG:192:HIS:HA	4:OG:195:LEU:HD23	1.81	0.62
29:P3:204:MET:HE1	3:WL:78:SER:HB2	1.82	0.62
3:PB:170:VAL:N	3:PB:202:ILE:O	2.32	0.62
4:PG:36:MET:HE3	4:PG:37:PRO:HD2	1.82	0.62
3:PJ:84:ILE:O	3:PJ:86:ARG:NH1	2.33	0.62
3:PJ:372:THR:HB	3:PJ:375:GLN:HE22	1.65	0.62
4:QE:83:TYR:HB3	4:QE:86:LEU:HD12	1.82	0.62
3:QF:302:ALA:HB1	3:QF:377:LEU:HD11	1.81	0.62
4:QG:107:HIS:HA	4:QG:152:LEU:HD23	1.81	0.62
4:QG:391:LEU:HA	4:QG:394:LYS:HE3	1.81	0.62
4:QI:223:THR:OG1	4:QI:225:THR:OG1	2.10	0.62
3:RF:412:GLU:OE1	3:RF:416:ASN:ND2	2.33	0.62
4:RK:49:PHE:HB2	4:RK:53:PHE:HB2	1.81	0.62
3:SB:2:ARG:HH22	3:SB:251:ARG:HH22	1.47	0.62
3:SB:240:LEU:HD22	3:SB:248:ALA:HB1	1.82	0.62
4:SG:9:VAL:HG11	4:SG:150:ALA:HB2	1.80	0.62
3:SL:299:MET:SD	3:SL:301:ALA:N	2.72	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:SM:388:TRP:HB3	4:SM:425:LEU:HD11	1.82	0.62
3:TB:28:HIS:O	3:TB:43:GLN:NE2	2.33	0.62
3:TB:322:SER:OG	3:TB:323:MET:SD	2.58	0.62
4:TE:49:PHE:O	4:TE:53:PHE:N	2.33	0.62
4:TE:206:ASN:HA	4:TE:209:ILE:HD12	1.82	0.62
3:TF:80:PRO:HB3	36:Y:139:GLN:HG2	1.81	0.62
3:TF:426:GLN:NE2	3:TF:427:ASP:OD2	2.33	0.62
4:TI:263:PRO:O	4:TI:264:ARG:HG2	2.00	0.62
3:TJ:111:GLU:HG2	3:TJ:112:LEU:HD12	1.81	0.62
3:TJ:245:GLN:HG3	4:TK:11:GLN:HE22	1.65	0.62
3:TJ:322:SER:OG	3:TJ:323:MET:SD	2.57	0.62
4:UI:285:GLN:HE22	4:UI:287:SER:HB3	1.64	0.62
3:UJ:374:ILE:HA	3:UJ:377:LEU:HD13	1.82	0.62
3:UL:12:CYS:HA	39:UL:501:GTP:N2	2.15	0.62
3:VD:46:ARG:HH22	4:VE:73:THR:HG23	1.64	0.62
4:VE:234:ILE:HD11	4:VE:272:TYR:HB2	1.82	0.62
3:VF:16:ILE:O	3:VF:20:PHE:N	2.26	0.62
3:VF:151:LEU:HD22	3:VF:154:LYS:HZ1	1.65	0.62
3:WD:246:LEU:HB2	3:WD:352:ALA:HB1	1.81	0.62
34:XC:82:ASN:ND2	34:XC:127:ASP:OD1	2.33	0.62
34:XE:16:SER:OG	34:XE:163:ARG:NH1	2.31	0.62
34:XG:73:LEU:HD22	34:XG:169:ASP:HB3	1.81	0.62
2:A2:362:LEU:HG	2:A2:366:TYR:HE2	1.65	0.61
3:AH:378:PHE:HA	3:AH:381:ILE:HG12	1.81	0.61
3:AL:77:ARG:O	3:AL:77:ARG:NH1	2.28	0.61
5:B1:410:THR:O	7:C9:239:LYS:NZ	2.26	0.61
5:B2:7:LYS:O	5:B2:11:ARG:NH2	2.33	0.61
3:BB:372:THR:HG21	3:BB:426:GLN:HG3	1.82	0.61
7:C3:229:CYS:O	7:C3:233:MET:HG2	2.00	0.61
7:C3:360:LYS:O	7:C3:364:HIS:ND1	2.25	0.61
7:C9:483:THR:HG21	8:D9:403:ARG:HH21	1.65	0.61
3:CB:372:THR:HG21	3:CB:426:GLN:HG3	1.81	0.61
4:CC:46:ASP:OD1	4:CC:50:ASN:ND2	2.32	0.61
4:CC:214:ARG:NH1	4:CC:215:ARG:HG3	2.15	0.61
4:CG:79:ARG:HE	15:H3:218:ILE:HD12	1.65	0.61
3:CH:5:VAL:HG23	3:CH:130:LEU:HD11	1.81	0.61
7:Cb:344:ASN:ND2	7:Cb:477:ARG:HD2	2.15	0.61
8:D3:72:ASP:OD1	8:D3:73:TYR:N	2.33	0.61
8:D7:183:ILE:O	8:D7:187:GLN:HG2	2.00	0.61
8:D8:263:ASP:O	8:D8:267:ARG:HG2	2.00	0.61
8:D9:87:GLU:HG3	11:Fi:429:THR:HG22	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:D9:236:THR:HG23	8:D9:237:GLN:HG2	1.83	0.61
8:D9:313:ASP:OD1	11:F4:271:ARG:NH2	2.33	0.61
3:DB:347:ASN:ND2	4:DC:176:GLN:O	2.32	0.61
3:DJ:118:ASP:OD1	3:DJ:121:ARG:NH1	2.33	0.61
3:DL:111:GLU:HG2	3:DL:112:LEU:HD12	1.80	0.61
9:E:593:TYR:HD1	9:E:596:LYS:HZ1	1.46	0.61
10:E3:76:TRP:HA	10:E3:79:LEU:HD23	1.81	0.61
3:EB:111:GLU:HG2	3:EB:112:LEU:HD12	1.82	0.61
3:EB:374:ILE:HA	3:EB:377:LEU:HD13	1.80	0.61
3:EF:282:ARG:NH2	3:EF:292:GLN:OE1	2.22	0.61
4:EG:261:PRO:HA	3:EH:394:PHE:HE1	1.64	0.61
4:EG:306:ASP:OD2	4:EG:309:HIS:ND1	2.32	0.61
4:EI:224:TYR:HA	4:EI:227:LEU:HB2	1.82	0.61
11:F1:401:ARG:NH1	11:F6:453:HIS:HB2	2.15	0.61
11:F1:402:ARG:HD2	11:F1:407:LEU:HA	1.81	0.61
11:F5:183:GLU:O	11:F5:187:PRO:HD2	2.00	0.61
4:FC:271:THR:HA	4:FC:302:MET:HE1	1.81	0.61
3:FH:375:GLN:HA	3:FH:378:PHE:CZ	2.35	0.61
4:FK:101:ASN:HA	4:FK:144:GLY:HA2	1.82	0.61
4:FK:331:ALA:O	4:FK:334:THR:OG1	2.18	0.61
4:FK:434:GLU:HA	4:FK:437:VAL:HG12	1.82	0.61
11:Fj:339:THR:HG22	11:Fj:343:PHE:CZ	2.35	0.61
11:Fl:382:ILE:O	11:Fl:385:LYS:HG2	2.00	0.61
12:G:88:GLN:HA	12:G:91:VAL:HG12	1.82	0.61
14:G4:328:VAL:HG13	14:G4:330:GLN:HE22	1.65	0.61
3:GD:4:ILE:HD11	3:GD:131:GLN:HB2	1.81	0.61
3:GD:12:CYS:HA	39:GD:501:GTP:N2	2.15	0.61
4:GK:318:LEU:HB3	4:GK:376:CYS:HB3	1.82	0.61
15:H4:281:LEU:HG	15:H4:282:ILE:H	1.65	0.61
3:HB:70:PRO:HA	3:HB:73:MET:HE2	1.82	0.61
3:HB:269:GLY:HA2	3:HB:300:MET:HE1	1.81	0.61
3:HH:173:PRO:O	3:HH:380:ARG:NH2	2.33	0.61
3:HL:207:LEU:HB3	3:HL:225:LEU:HD22	1.82	0.61
4:IC:286:LEU:HD11	4:IC:373:ARG:H	1.64	0.61
3:IF:173:PRO:O	3:IF:380:ARG:NH2	2.33	0.61
4:IK:200:CYS:HA	4:IK:266:HIS:HB2	1.82	0.61
4:JG:271:THR:HA	4:JG:302:MET:HE1	1.80	0.61
3:JH:289:LEU:O	3:JH:293:MET:N	2.25	0.61
4:JK:53:PHE:O	4:JK:64:ARG:NH1	2.33	0.61
4:JK:271:THR:HB	4:JK:377:MET:HB3	1.80	0.61
21:K3:388:GLU:HG3	21:K3:392:LYS:HD3	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:K3:469:HIS:NE2	3:KH:400:GLY:HA2	2.14	0.61
21:K4:46:MET:HE1	21:K4:106:TYR:HB3	1.82	0.61
21:K4:123:ALA:O	21:K4:127:HIS:ND1	2.25	0.61
21:K5:26:LYS:NZ	21:K5:30:ARG:HH21	1.97	0.61
4:KK:172:TYR:HB2	4:KK:203:MET:HB2	1.82	0.61
22:L1:158:ILE:O	22:L1:162:ASN:N	2.28	0.61
22:L2:124:ILE:HB	22:L2:133:LYS:HZ2	1.64	0.61
22:L2:246:LYS:O	36:Y:40:GLN:NE2	2.28	0.61
4:LE:108:TYR:O	4:LE:112:LYS:NZ	2.25	0.61
4:LE:316:CYS:HB3	4:LE:378:LEU:HB3	1.82	0.61
3:LH:7:LEU:HD13	3:LH:64:VAL:HB	1.80	0.61
3:LH:16:ILE:HG13	3:LH:226:ASN:ND2	2.15	0.61
4:LK:295:CYS:HB2	4:LK:377:MET:HE3	1.82	0.61
3:MF:286:VAL:HG21	3:MF:325:GLU:HG3	1.80	0.61
4:MG:216:ASN:ND2	4:MG:275:VAL:O	2.33	0.61
3:ML:111:GLU:HG2	3:ML:112:LEU:HD12	1.81	0.61
4:NA:338:LYS:HZ2	4:NA:340:THR:H	1.47	0.61
4:NC:205:ASP:OD2	4:NC:304:LYS:NZ	2.28	0.61
4:NC:264:ARG:O	4:NC:266:HIS:ND1	2.33	0.61
4:NK:171:ILE:HD12	4:NK:204:VAL:HG13	1.82	0.61
3:NL:374:ILE:HA	3:NL:377:LEU:HD13	1.82	0.61
4:OA:185:TYR:HA	4:OA:395:PHE:HE1	1.65	0.61
29:P1:229:ILE:HD11	29:P1:253:VAL:HG11	1.82	0.61
29:P2:353:LYS:HE2	29:P2:354:LYS:HE3	1.82	0.61
4:PC:370:LYS:NZ	4:PC:372:GLN:OE1	2.32	0.61
3:PF:16:ILE:HD13	3:PF:226:ASN:HD22	1.65	0.61
3:PH:252:LYS:O	3:PH:256:ASN:ND2	2.33	0.61
3:PJ:295:ASP:HB2	3:PJ:298:ASN:HB2	1.82	0.61
3:PJ:322:SER:N	3:PJ:325:GLU:OE2	2.32	0.61
3:QB:247:ASN:HB3	3:QB:252:LYS:HG2	1.81	0.61
3:QJ:83:GLN:O	3:QJ:86:ARG:NH2	2.33	0.61
4:QK:278:ALA:O	4:QK:370:LYS:NZ	2.33	0.61
4:SC:67:PHE:HB2	4:SC:92:LEU:HD13	1.82	0.61
4:SC:271:THR:HB	4:SC:377:MET:HB3	1.80	0.61
4:SC:419:SER:HA	4:SC:422:ARG:HE	1.63	0.61
4:SI:53:PHE:O	4:SI:64:ARG:NH1	2.33	0.61
4:SI:216:ASN:HB2	4:SI:276:ILE:HD12	1.82	0.61
3:TD:262:ARG:NH2	3:TD:425:TYR:OH	2.33	0.61
3:TD:282:ARG:NH2	3:TD:292:GLN:OE1	2.28	0.61
3:TH:323:MET:HE1	4:TI:223:THR:HA	1.82	0.61
4:TI:326:LYS:HD2	3:TJ:208:TYR:CE2	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:TM:306:ASP:OD2	4:TM:309:HIS:ND1	2.33	0.61
3:UB:101:TRP:HB2	3:UB:184:ASN:HD22	1.65	0.61
4:VA:192:HIS:HA	4:VA:195:LEU:HD23	1.80	0.61
3:VH:84:ILE:O	3:VH:86:ARG:NH1	2.33	0.61
4:VI:9:VAL:HG11	4:VI:150:ALA:HB2	1.82	0.61
3:VJ:321:MET:SD	3:VJ:363:MET:HG3	2.40	0.61
4:WA:271:THR:HB	4:WA:377:MET:HB3	1.81	0.61
3:WF:235:GLY:O	3:WF:238:THR:OG1	2.17	0.61
4:WG:144:GLY:N	39:WG:501:GTP:O2B	2.32	0.61
4:WI:11:GLN:HB2	4:WI:74:VAL:HG21	1.82	0.61
4:WI:224:TYR:HA	4:WI:227:LEU:HB2	1.81	0.61
3:WJ:33:THR:O	3:WJ:58:LYS:NZ	2.33	0.61
37:YC:114:ARG:NH2	37:YC:133:HIS:O	2.33	0.61
37:YE:80:CYS:HA	37:YE:83:PHE:HD2	1.64	0.61
37:YP:99:LYS:HE2	37:YP:147:PHE:HB3	1.82	0.61
4:AC:89:PRO:HD2	4:BC:280:LYS:HZ3	1.65	0.61
4:AC:286:LEU:HD11	4:AC:373:ARG:H	1.63	0.61
3:AF:39:ASP:OD1	3:AF:43:GLN:NE2	2.33	0.61
3:AH:324:LYS:HD2	4:AI:221:ARG:HA	1.80	0.61
4:AK:101:ASN:HA	4:AK:144:GLY:HA2	1.82	0.61
5:B2:230:GLU:HB3	5:B2:234:LYS:NZ	2.15	0.61
5:B4:119:LEU:HD13	5:B4:389:LYS:HE3	1.81	0.61
4:BE:261:PRO:HA	3:BF:394:PHE:CE1	2.35	0.61
3:BJ:170:VAL:N	3:BJ:202:ILE:O	2.30	0.61
3:BJ:385:PHE:HA	3:BJ:388:MET:HE2	1.80	0.61
6:C:346:PRO:HD2	6:C:362:ALA:HB2	1.82	0.61
7:C4:412:CYS:O	7:C4:417:GLN:NE2	2.33	0.61
3:CB:207:LEU:HB3	3:CB:225:LEU:HD22	1.81	0.61
3:CH:114:ASP:OD1	3:CH:115:SER:N	2.33	0.61
7:Cc:375:ILE:O	7:Cc:378:THR:OG1	2.16	0.61
4:DC:25:CYS:HB2	4:DC:30:ILE:HB	1.81	0.61
3:DJ:12:CYS:HA	39:DJ:501:GTP:N2	2.15	0.61
4:EI:192:HIS:HA	4:EI:195:LEU:HD23	1.80	0.61
3:EJ:269:GLY:HA2	3:EJ:300:MET:HE1	1.81	0.61
3:FJ:211:CYS:HA	3:FJ:215:LEU:HB2	1.82	0.61
4:FK:34:GLY:HA2	4:FK:86:LEU:HD21	1.82	0.61
4:FK:265:ILE:HD12	4:FK:267:PHE:HD2	1.65	0.61
11:Fb:366:GLN:HA	11:Fb:369:PHE:CE2	2.35	0.61
11:Fc:327:THR:O	11:Fc:331:GLN:NE2	2.33	0.61
11:Fe:324:LEU:O	11:Fe:328:LEU:HG	2.00	0.61
3:GB:130:LEU:HB2	3:GB:162:ARG:HH11	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:GC:127:ASP:OD1	4:GC:128:LEU:N	2.33	0.61
4:GC:244:PHE:HB2	4:GC:356:ASN:HD21	1.65	0.61
4:GG:67:PHE:O	4:GG:93:ILE:N	2.33	0.61
15:H3:210:PRO:HA	15:H3:214:GLN:HB3	1.83	0.61
4:HA:144:GLY:N	39:HA:501:GTP:O2B	2.33	0.61
4:HK:172:TYR:HB2	4:HK:203:MET:HB3	1.80	0.61
3:IB:130:LEU:HB2	3:IB:162:ARG:HH11	1.65	0.61
3:IB:295:ASP:HB2	3:IB:298:ASN:HB2	1.82	0.61
4:IG:213:CYS:HA	4:IG:217:LEU:HB2	1.82	0.61
3:IH:32:PRO:O	3:IH:83:GLN:NE2	2.24	0.61
3:IH:194:GLU:OE1	3:IH:195:ASN:ND2	2.33	0.61
3:IL:12:CYS:HA	39:IL:501:GTP:N2	2.15	0.61
18:J:101:ASP:OD2	18:J:106:ARG:NE	2.32	0.61
4:JA:144:GLY:N	39:JA:501:GTP:O2B	2.32	0.61
3:JF:39:ASP:OD1	3:JF:43:GLN:NE2	2.33	0.61
3:JL:83:GLN:O	3:JL:86:ARG:NH2	2.34	0.61
3:JL:256:ASN:HB3	3:JL:350:LYS:HG3	1.81	0.61
21:K4:488:THR:O	21:K4:490:ALA:N	2.27	0.61
3:KD:235:GLY:O	3:KD:238:THR:OG1	2.18	0.61
4:KE:433:GLU:O	4:KE:437:VAL:N	2.33	0.61
3:KL:317:PHE:O	3:KL:354:CYS:N	2.32	0.61
22:L3:89:PRO:HD2	22:L3:91:ARG:HH11	1.65	0.61
4:LK:6:SER:HA	4:LK:136:LEU:HB2	1.81	0.61
3:LL:143:THR:HG22	3:LL:147:MET:HE2	1.82	0.61
3:MD:322:SER:N	3:MD:325:GLU:OE2	2.33	0.61
4:MG:419:SER:HA	4:MG:422:ARG:HE	1.64	0.61
3:MH:151:LEU:HD22	3:MH:154:LYS:HZ1	1.65	0.61
3:NB:309:ARG:H	3:NB:372:THR:HG1	1.46	0.61
4:NG:49:PHE:O	4:NG:53:PHE:N	2.33	0.61
3:NL:83:GLN:O	3:NL:86:ARG:NH2	2.34	0.61
3:OB:309:ARG:H	3:OB:372:THR:HG1	1.48	0.61
4:OE:46:ASP:OD1	4:OE:50:ASN:ND2	2.32	0.61
4:OE:244:PHE:HB2	4:OE:356:ASN:HD21	1.66	0.61
3:OH:33:THR:O	3:OH:58:LYS:NZ	2.31	0.61
4:OI:391:LEU:HD23	4:OI:394:LYS:HZ1	1.64	0.61
3:OJ:60:VAL:HG23	3:OJ:86:ARG:HH11	1.65	0.61
4:OK:310:GLY:O	4:OK:342:GLN:NE2	2.33	0.61
3:OL:170:VAL:N	3:OL:202:ILE:O	2.29	0.61
29:P3:427:SER:OG	29:P3:473:ASN:ND2	2.30	0.61
4:PC:91:GLN:HG3	4:PC:121:ARG:HH21	1.66	0.61
4:PK:67:PHE:HB2	4:PK:92:LEU:HD13	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:PK:98:ASP:O	4:PK:105:ARG:NH2	2.32	0.61
3:PL:2:ARG:HB3	3:PL:131:GLN:NE2	2.15	0.61
3:PL:139:LEU:HD21	3:PL:170:VAL:HG22	1.80	0.61
4:QC:187:SER:O	4:QC:190:THR:OG1	2.18	0.61
3:QD:155:ILE:HA	3:QD:158:GLU:HB2	1.80	0.61
3:QH:130:LEU:HB2	3:QH:162:ARG:HH11	1.65	0.61
4:RE:49:PHE:HB2	4:RE:53:PHE:HB2	1.81	0.61
3:RF:50:TYR:HB2	3:RF:241:ARG:HH21	1.65	0.61
3:SD:170:VAL:N	3:SD:202:ILE:O	2.30	0.61
3:SD:258:VAL:O	4:SE:407:TRP:NE1	2.32	0.61
3:SD:317:PHE:O	3:SD:354:CYS:N	2.31	0.61
4:SG:234:ILE:HD11	4:SG:272:TYR:HB2	1.82	0.61
4:SI:161:TYR:O	4:SI:166:LYS:NZ	2.33	0.61
4:SK:12:ALA:HB1	39:SK:501:GTP:C2	2.35	0.61
4:SK:84:ARG:HH22	37:YO:131:ARG:NH1	1.98	0.61
3:SL:211:CYS:HA	3:SL:215:LEU:HB2	1.82	0.61
4:TC:144:GLY:N	39:TC:501:GTP:O2B	2.32	0.61
33:U:460:GLU:OE2	33:U:461:LYS:NZ	2.32	0.61
4:UC:50:ASN:O	4:UC:64:ARG:NH1	2.33	0.61
3:UF:12:CYS:HA	39:UF:501:GTP:N2	2.15	0.61
4:UG:214:ARG:NH1	4:UG:215:ARG:HG3	2.15	0.61
3:UH:141:GLY:HA3	39:UH:501:GTP:H5"	1.82	0.61
4:VA:75:VAL:HG22	4:VA:79:ARG:HH21	1.65	0.61
4:VC:396:ASP:OD1	4:VC:397:LEU:N	2.33	0.61
39:VD:501:GTP:O3G	39:VD:501:GTP:O3'	2.17	0.61
4:VI:236:SER:O	4:VI:243:ARG:NH2	2.32	0.61
4:WA:316:CYS:HB3	4:WA:378:LEU:HB3	1.82	0.61
4:WI:102:ASN:ND2	4:WI:411:GLU:OE2	2.28	0.61
4:WI:207:GLU:HB2	4:WI:304:LYS:HZ1	1.65	0.61
4:WK:313:MET:HE3	4:WK:380:ASN:HB3	1.81	0.61
34:XA:16:SER:OG	34:XA:163:ARG:NH1	2.33	0.61
34:XD:83:LEU:HD11	34:XD:161:ARG:HB2	1.82	0.61
37:YA:18:PHE:O	37:YA:22:GLN:N	2.32	0.61
37:YE:14:LYS:HE2	37:YE:72:ILE:HG12	1.82	0.61
37:YS:60:SER:O	37:YS:63:ARG:HD3	2.00	0.61
2:A1:368:ARG:NH2	2:A2:23:GLN:O	2.33	0.61
2:A2:336:ARG:O	2:A2:340:GLU:HG2	2.00	0.61
2:A3:231:GLN:HA	2:A3:234:ASN:HD22	1.64	0.61
2:A4:80:LYS:HG3	2:A4:225:VAL:HG23	1.82	0.61
4:AG:108:TYR:O	4:AG:112:LYS:NZ	2.23	0.61
5:B8:141:VAL:HA	5:B8:144:ILE:HD12	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BB:3:GLU:HG2	3:BB:130:LEU:HD13	1.83	0.61
3:BD:60:VAL:HG23	3:BD:86:ARG:HH11	1.66	0.61
3:BH:12:CYS:HA	39:BH:501:GTP:HN22	1.65	0.61
3:BH:139:LEU:HD21	3:BH:170:VAL:HG22	1.82	0.61
3:BJ:317:PHE:O	3:BJ:354:CYS:N	2.25	0.61
4:BM:236:SER:O	4:BM:243:ARG:NH2	2.30	0.61
7:C3:129:GLN:O	7:C3:133:GLN:NE2	2.31	0.61
7:C7:94:TYR:HE1	8:D3:245:SER:HB2	1.65	0.61
3:CD:48:ASN:O	3:CD:62:ARG:NH2	2.28	0.61
4:CK:50:ASN:O	4:CK:64:ARG:NH1	2.33	0.61
4:CM:33:ASP:OD1	4:CM:34:GLY:N	2.33	0.61
7:Cb:363:THR:HG22	7:Cb:367:LYS:HZ1	1.65	0.61
7:Cc:185:LEU:O	7:Cc:188:THR:OG1	2.15	0.61
7:Cc:318:SER:O	7:Cc:322:ARG:HG3	2.00	0.61
6:D:366:LYS:HG3	6:D:367:THR:HG23	1.80	0.61
8:D3:269:GLU:HG2	8:D3:272:ARG:HH21	1.65	0.61
8:D3:311:LEU:HB3	8:D3:419:LYS:NZ	2.15	0.61
8:D7:368:LEU:HG	8:D8:249:GLU:HG3	1.82	0.61
8:D9:159:ARG:NH2	8:D9:173:GLU:OE2	2.33	0.61
4:DA:210:TYR:HE1	4:DA:227:LEU:HD11	1.66	0.61
4:DE:286:LEU:HD11	4:DE:373:ARG:H	1.65	0.61
3:DF:374:ILE:HG23	3:DF:377:LEU:HD12	1.81	0.61
4:DI:144:GLY:N	39:DI:501:GTP:O2B	2.30	0.61
4:EA:33:ASP:OD1	4:EA:34:GLY:N	2.33	0.61
3:EB:324:LYS:NZ	4:EC:222:PRO:O	2.33	0.61
3:EB:412:GLU:OE1	3:EB:416:ASN:ND2	2.33	0.61
3:ED:392:LYS:HB2	3:ED:395:LEU:HD13	1.80	0.61
4:EE:49:PHE:HB2	4:EE:53:PHE:HB2	1.82	0.61
4:EE:154:MET:HE1	4:EE:197:HIS:HB2	1.81	0.61
4:EG:415:GLU:OE1	4:EG:419:SER:OG	2.16	0.61
4:FA:415:GLU:OE1	4:FA:415:GLU:N	2.30	0.61
3:FD:48:ASN:O	3:FD:62:ARG:NH2	2.33	0.61
3:FD:412:GLU:OE1	3:FD:416:ASN:ND2	2.33	0.61
3:FF:175:VAL:HG22	3:FF:177:ASP:H	1.65	0.61
3:FH:172:SER:OG	3:FH:205:GLU:OE2	2.18	0.61
3:FJ:83:GLN:O	3:FJ:86:ARG:NH2	2.33	0.61
4:FK:46:ASP:OD1	4:FK:50:ASN:ND2	2.30	0.61
11:Fa:429:THR:O	11:Fa:433:ARG:HG2	1.99	0.61
11:Fl:262:TYR:O	11:Fl:266:ASN:ND2	2.33	0.61
13:G2:164:HIS:HD2	13:G2:166:LYS:HG2	1.65	0.61
14:G6:560:ARG:O	14:G6:564:GLN:NE2	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:GC:30:ILE:HA	4:GC:36:MET:HE1	1.81	0.61
4:GG:317:MET:SD	4:GG:317:MET:N	2.73	0.61
3:GH:286:VAL:HG21	3:GH:325:GLU:HG3	1.82	0.61
3:HB:316:VAL:HG22	3:HB:352:ALA:HB3	1.82	0.61
17:I3:50:GLN:O	17:I3:54:ASN:N	2.24	0.61
3:IL:3:GLU:HG2	3:IL:130:LEU:HD23	1.81	0.61
19:J2:105:CYS:HB3	19:J2:112:SER:HB3	1.82	0.61
3:JH:273:LEU:H	3:JH:292:GLN:HE22	1.49	0.61
21:K1:383:LEU:HA	4:LA:339:ARG:NH2	2.15	0.61
21:K3:46:MET:SD	21:K3:108:ARG:NH1	2.73	0.61
21:K3:355:GLY:HA2	21:K3:358:ARG:HE	1.65	0.61
3:KD:156:ARG:NH1	3:KD:195:ASN:O	2.33	0.61
4:KG:49:PHE:O	4:KG:53:PHE:N	2.33	0.61
4:KI:402:ARG:HG3	31:R2:128:VAL:HG21	1.83	0.61
20:L:48:LYS:O	20:L:52:ARG:NH1	2.32	0.61
3:LJ:6:HIS:HE1	3:LJ:8:GLN:OE1	1.83	0.61
3:LJ:392:LYS:HB2	3:LJ:395:LEU:HD13	1.83	0.61
24:M3:73:GLN:HA	24:M3:76:ALA:HB3	1.82	0.61
3:MB:13:GLY:HA2	3:MB:16:ILE:HB	1.83	0.61
3:MB:285:THR:N	3:MB:288:GLU:OE2	2.27	0.61
3:MF:48:ASN:O	3:MF:62:ARG:NH2	2.25	0.61
4:NE:256:GLN:O	4:NE:260:VAL:HG12	2.00	0.61
4:NG:34:GLY:HA2	4:NG:86:LEU:HD21	1.81	0.61
4:NI:88:HIS:HB3	4:NI:91:GLN:HB2	1.82	0.61
4:NI:295:CYS:HB2	4:NI:377:MET:HE3	1.83	0.61
28:O2:47:GLY:O	28:O2:55:ARG:NH2	2.33	0.61
3:OB:186:THR:HG23	3:OB:385:PHE:CZ	2.35	0.61
3:OF:269:GLY:N	3:OF:367:PHE:O	2.33	0.61
4:OG:358:GLN:NE2	4:OG:359:PRO:O	2.33	0.61
3:OH:170:VAL:N	3:OH:202:ILE:O	2.25	0.61
4:OI:32:PRO:O	4:OI:85:GLN:NE2	2.32	0.61
4:OI:127:ASP:OD1	4:OI:128:LEU:N	2.34	0.61
4:PE:34:GLY:HA2	4:PE:86:LEU:HD21	1.80	0.61
3:PF:60:VAL:HG23	3:PF:86:ARG:HH11	1.64	0.61
3:PL:101:TRP:HB2	3:PL:184:ASN:HD22	1.66	0.61
4:PM:203:MET:HE1	4:PM:267:PHE:HB3	1.81	0.61
30:Q1:1461:TYR:HE2	30:Q1:1477:VAL:HB	1.64	0.61
4:QE:245:ASP:O	4:QE:356:ASN:ND2	2.32	0.61
3:SB:374:ILE:HA	3:SB:377:LEU:HD13	1.82	0.61
3:SF:152:ILE:HG22	3:SF:164:MET:HE2	1.81	0.61
4:SM:32:PRO:O	4:SM:85:GLN:NE2	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TB:250:LEU:O	3:TB:254:ALA:N	2.28	0.61
4:TE:2:ARG:NH2	4:TE:250:VAL:O	2.33	0.61
4:TE:236:SER:O	4:TE:243:ARG:NH2	2.31	0.61
4:TG:371:VAL:HG11	4:TG:374:ALA:HB2	1.82	0.61
3:TH:68:LEU:HD12	3:TH:97:ALA:HB2	1.82	0.61
4:TM:325:PRO:HA	4:TM:328:VAL:HB	1.81	0.61
3:TN:28:HIS:HD2	3:TN:43:GLN:HB2	1.64	0.61
4:UA:34:GLY:HA2	4:UA:86:LEU:HD21	1.82	0.61
4:UA:87:PHE:HB3	4:UA:92:LEU:HD21	1.82	0.61
4:UA:161:TYR:O	4:UA:166:LYS:NZ	2.33	0.61
3:UH:28:HIS:HE1	3:UH:241:ARG:HD3	1.64	0.61
3:VB:12:CYS:HA	39:VB:501:GTP:N2	2.14	0.61
3:VB:385:PHE:HZ	3:VB:408:PHE:HB3	1.64	0.61
4:VE:127:ASP:OD1	4:VE:128:LEU:N	2.33	0.61
4:VI:5:ILE:HD13	4:VI:64:ARG:HB3	1.81	0.61
4:VI:208:ALA:H	4:VI:304:LYS:HZ1	1.49	0.61
3:WB:309:ARG:HH22	3:WB:344:TRP:HZ3	1.48	0.61
3:WF:3:GLU:HG2	3:WF:130:LEU:HD23	1.82	0.61
3:WF:84:ILE:O	3:WF:86:ARG:NH1	2.33	0.61
3:WF:143:THR:HG22	3:WF:147:MET:HE2	1.82	0.61
4:WG:33:ASP:OD1	4:WG:34:GLY:N	2.33	0.61
37:YP:96:LEU:HD11	37:YP:150:GLU:HG2	1.83	0.61
36:Z:300:ARG:HG3	36:Z:303:GLN:H	1.64	0.61
3:AD:46:ARG:HH22	4:AE:73:THR:HA	1.65	0.61
3:AJ:111:GLU:HG2	3:AJ:112:LEU:HD12	1.82	0.61
5:B1:128:VAL:HG12	5:B2:11:ARG:HG3	1.82	0.61
5:B5:46:ARG:NH2	5:B6:300:LEU:HB2	2.16	0.61
7:C1:93:ARG:HA	7:C2:212:HIS:HB2	1.83	0.61
7:C5:385:ALA:O	7:C5:389:LYS:HG2	2.00	0.61
3:CD:12:CYS:SG	3:CD:13:GLY:N	2.73	0.61
3:CF:385:PHE:HZ	3:CF:408:PHE:HB3	1.65	0.61
3:CJ:11:GLN:HE21	39:CJ:501:GTP:H3'	1.65	0.61
4:CM:12:ALA:HB1	39:CM:501:GTP:C2	2.35	0.61
7:Cb:399:ARG:HH21	7:Cc:274:LEU:HD11	1.66	0.61
6:D:101:TYR:HA	6:D:104:ARG:HH21	1.66	0.61
3:DD:276:ARG:NE	13:G1:284:GLY:O	2.32	0.61
3:DD:290:THR:HG21	3:DD:329:GLN:HB3	1.81	0.61
4:DE:208:ALA:H	4:DE:304:LYS:HZ1	1.46	0.61
4:DG:32:PRO:O	4:DG:85:GLN:NE2	2.33	0.61
3:ED:406:MET:O	3:ED:409:THR:OG1	2.16	0.61
4:EI:256:GLN:O	4:EI:260:VAL:HG12	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:F9:357:LEU:HD13	11:F9:455:LEU:HD21	1.81	0.61
4:FC:236:SER:O	4:FC:243:ARG:NH2	2.30	0.61
4:FG:9:VAL:HG11	4:FG:150:ALA:HB2	1.82	0.61
3:FH:268:PRO:HD2	3:FH:301:ALA:HB2	1.82	0.61
4:FI:33:ASP:OD1	4:FI:34:GLY:N	2.33	0.61
3:FL:6:HIS:HE1	3:FL:136:THR:HG23	1.65	0.61
11:Fe:158:TYR:O	11:Fe:162:ARG:NE	2.32	0.61
11:Fh:375:ILE:HA	11:Fh:378:LEU:HD12	1.82	0.61
11:Fk:224:CYS:O	11:Fk:228:GLN:NE2	2.33	0.61
13:G2:147:LYS:HG2	13:G2:150:LYS:HD3	1.82	0.61
4:GA:22:GLU:O	4:GA:26:LEU:HD23	1.99	0.61
3:GJ:2:ARG:NH2	4:GK:97:GLU:OE2	2.34	0.61
3:HB:309:ARG:HE	3:HB:426:GLN:HE21	1.47	0.61
3:HD:132:GLY:HA3	3:HD:163:ILE:H	1.65	0.61
4:HK:216:ASN:ND2	4:HK:275:VAL:O	2.33	0.61
4:HK:419:SER:HA	4:HK:422:ARG:HE	1.65	0.61
4:IA:9:VAL:HG22	4:IA:146:GLY:HA2	1.81	0.61
4:IA:30:ILE:HA	4:IA:36:MET:HE1	1.82	0.61
3:IB:249:ASP:O	3:IB:252:LYS:HB2	1.99	0.61
3:ID:11:GLN:O	3:ID:15:GLN:NE2	2.34	0.61
4:IG:12:ALA:O	39:IG:501:GTP:N1	2.33	0.61
4:IM:204:VAL:HG23	4:IM:302:MET:HG3	1.82	0.61
18:J:139:PRO:HG2	18:J:140:THR:HG23	1.83	0.61
3:JD:28:HIS:O	3:JD:43:GLN:NE2	2.33	0.61
4:JE:49:PHE:O	4:JE:53:PHE:N	2.32	0.61
3:JH:372:THR:HG21	3:JH:426:GLN:HG3	1.81	0.61
3:JJ:286:VAL:HG21	3:JJ:325:GLU:HG3	1.82	0.61
3:JJ:324:LYS:NZ	4:JK:222:PRO:O	2.22	0.61
3:KL:424:GLN:OE1	31:R3:121:ILE:HG13	2.00	0.61
20:L:38:LEU:HG	20:L:40:ILE:HG12	1.83	0.61
3:LB:194:GLU:OE1	3:LB:195:ASN:ND2	2.33	0.61
4:LE:34:GLY:HA2	4:LE:86:LEU:HD21	1.82	0.61
23:M:55:THR:HG22	23:M:101:VAL:HG23	1.81	0.61
26:N1:160:LYS:HA	26:N1:166:PHE:HD1	1.63	0.61
26:N2:162:ASP:O	4:VE:96:LYS:NZ	2.31	0.61
3:NB:385:PHE:HZ	3:NB:408:PHE:HB3	1.64	0.61
4:NC:91:GLN:HG3	4:NC:121:ARG:HH21	1.65	0.61
3:ND:170:VAL:N	3:ND:202:ILE:O	2.26	0.61
4:NI:388:TRP:HB3	4:NI:425:LEU:HD11	1.83	0.61
4:NK:30:ILE:HA	4:NK:36:MET:HE1	1.80	0.61
4:OA:102:ASN:ND2	4:OA:411:GLU:OE2	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:OB:194:GLU:OE1	3:OB:195:ASN:ND2	2.34	0.61
3:OD:256:ASN:HB3	3:OD:350:LYS:HG3	1.82	0.61
3:OF:36:TYR:O	37:YK:64:ARG:NH2	2.32	0.61
29:P3:552:ASP:HB3	29:P3:595:ILE:HG13	1.82	0.61
3:PF:33:THR:O	3:PF:58:LYS:NZ	2.34	0.61
3:PF:322:SER:N	3:PF:325:GLU:OE2	2.33	0.61
4:PM:127:ASP:OD1	4:PM:128:LEU:N	2.33	0.61
4:PM:188:ILE:HG12	4:PM:421:ALA:HB1	1.81	0.61
3:QB:253:LEU:HB3	3:QB:257:MET:HE1	1.83	0.61
3:QF:372:THR:HG21	3:QF:426:GLN:HG3	1.81	0.61
3:QJ:250:LEU:O	3:QJ:254:ALA:N	2.29	0.61
4:RI:358:GLN:NE2	4:RI:359:PRO:O	2.32	0.61
3:RL:84:ILE:O	3:RL:86:ARG:NH1	2.34	0.61
4:SC:93:ILE:HD11	4:SC:121:ARG:HG3	1.83	0.61
4:SE:91:GLN:HG3	4:SE:121:ARG:HH21	1.64	0.61
4:SE:107:HIS:HA	4:SE:152:LEU:HD23	1.82	0.61
3:SF:278:SER:HA	3:SF:281:TYR:HB2	1.82	0.61
3:TB:13:GLY:HA2	3:TB:16:ILE:HB	1.82	0.61
4:TG:127:ASP:OD1	4:TG:128:LEU:N	2.34	0.61
4:TI:210:TYR:OH	4:TI:221:ARG:NH2	2.33	0.61
4:TM:415:GLU:OE1	4:TM:419:SER:OG	2.17	0.61
4:UE:263:PRO:O	4:UE:264:ARG:HG2	2.00	0.61
3:UF:292:GLN:O	3:UF:298:ASN:ND2	2.31	0.61
4:VA:346:TRP:HE1	3:VB:393:ALA:HB2	1.65	0.61
3:VB:253:LEU:HB3	3:VB:257:MET:HE1	1.83	0.61
4:VC:171:ILE:HD12	4:VC:204:VAL:HG13	1.82	0.61
3:VD:170:VAL:N	3:VD:202:ILE:O	2.30	0.61
3:VF:132:GLY:HA2	3:VF:162:ARG:HB3	1.81	0.61
3:VF:323:MET:SD	3:VF:323:MET:N	2.74	0.61
4:WA:229:ARG:HE	4:WA:368:LEU:HD22	1.66	0.61
4:WA:427:ALA:HA	4:WA:430:LYS:HG2	1.82	0.61
4:WE:49:PHE:O	4:WE:53:PHE:N	2.33	0.61
3:WH:39:ASP:OD1	3:WH:43:GLN:NE2	2.33	0.61
3:WJ:16:ILE:HD13	3:WJ:226:ASN:HD22	1.64	0.61
3:WJ:94:GLN:HA	35:XL:74:LYS:H	1.65	0.61
34:XD:50:GLU:OE1	34:XD:159:ASN:ND2	2.33	0.61
34:XD:104:ARG:HB2	34:XD:118:ILE:HD11	1.82	0.61
37:YR:57:CYS:O	37:YR:63:ARG:NH1	2.32	0.61
37:YR:115:ALA:HB2	37:YR:143:ILE:HD11	1.82	0.61
4:AC:89:PRO:HD2	4:BC:280:LYS:NZ	2.15	0.61
4:AE:224:TYR:CE1	39:AE:501:GTP:C5	2.86	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:433:GLU:O	4:AE:437:VAL:N	2.30	0.61
3:AJ:99:ASN:HB2	3:AJ:142:GLY:HA3	1.82	0.61
4:AK:9:VAL:HG11	4:AK:150:ALA:HB2	1.82	0.61
3:AL:205:GLU:HA	3:AL:208:TYR:CD2	2.35	0.61
5:B3:92:LEU:HD21	5:B3:236:SER:HB2	1.83	0.61
5:B6:400:PRO:HB2	5:B6:402:GLU:H	1.64	0.61
5:B7:237:ILE:HG12	5:B7:240:ARG:HH21	1.66	0.61
4:BC:127:ASP:O	14:G4:314:ARG:NH2	2.33	0.61
3:BD:323:MET:SD	3:BD:323:MET:N	2.74	0.61
3:BD:372:THR:HB	3:BD:375:GLN:HE22	1.65	0.61
3:BD:412:GLU:OE1	3:BD:416:ASN:ND2	2.33	0.61
3:BF:70:PRO:HA	3:BF:73:MET:HE2	1.83	0.61
3:BH:33:THR:O	3:BH:58:LYS:NZ	2.32	0.61
4:BK:316:CYS:HB3	4:BK:378:LEU:HB2	1.81	0.61
4:BK:392:ASP:OD1	4:BK:393:HIS:N	2.32	0.61
3:BL:374:ILE:HA	3:BL:377:LEU:HD13	1.82	0.61
4:BM:49:PHE:O	4:BM:53:PHE:N	2.33	0.61
7:C9:414:ASP:N	7:C9:417:GLN:HE21	1.99	0.61
4:CE:30:ILE:HA	4:CE:36:MET:HE1	1.81	0.61
4:CG:245:ASP:O	4:CG:356:ASN:ND2	2.32	0.61
4:CM:244:PHE:HB2	4:CM:356:ASN:HD21	1.65	0.61
7:Ca:369:LEU:HG	7:Ca:452:LYS:HZ1	1.66	0.61
7:Cc:372:ILE:O	7:Cc:375:ILE:HG22	2.00	0.61
3:DD:357:PRO:O	3:DD:359:ARG:NH1	2.33	0.61
4:DG:236:SER:O	4:DG:243:ARG:NH2	2.30	0.61
4:DI:54:SER:HB2	4:DI:62:VAL:HB	1.82	0.61
3:DL:218:THR:OG1	3:DL:219:THR:N	2.34	0.61
4:EG:287:SER:OG	4:EG:290:GLU:OE1	2.18	0.61
4:EK:41:THR:OG1	4:EK:47:ASP:OD2	2.19	0.61
4:EK:107:HIS:HA	4:EK:152:LEU:HD23	1.82	0.61
3:EL:253:LEU:HB3	3:EL:257:MET:HE1	1.81	0.61
9:F:374:GLU:HA	9:F:377:TYR:CZ	2.35	0.61
11:F3:295:THR:HA	11:F3:298:LYS:HE3	1.82	0.61
11:F5:212:GLU:O	11:F5:216:ILE:HG12	2.00	0.61
11:F9:204:ILE:O	11:Fa:90:TYR:OH	2.18	0.61
3:FB:326:VAL:HG21	3:FB:351:THR:HG21	1.83	0.61
4:FC:32:PRO:O	4:FC:85:GLN:NE2	2.33	0.61
3:FD:170:VAL:N	3:FD:202:ILE:O	2.32	0.61
4:FE:53:PHE:O	4:FE:64:ARG:NH1	2.34	0.61
3:FF:324:LYS:HE3	4:FG:210:TYR:HE1	1.65	0.61
4:FG:12:ALA:O	39:FG:501:GTP:N1	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FI:338:LYS:HZ2	4:FI:340:THR:H	1.48	0.61
4:FK:11:GLN:O	4:FK:14:VAL:HG22	2.01	0.61
3:FL:130:LEU:HB2	3:FL:162:ARG:HH11	1.63	0.61
11:Fc:229:MET:HE3	11:Fc:230:ARG:HH12	1.64	0.61
14:G6:457:TYR:O	14:G6:461:ASP:N	2.32	0.61
3:GB:60:VAL:HG23	3:GB:86:ARG:HH11	1.66	0.61
3:GL:289:LEU:HD21	3:GL:363:MET:HB3	1.81	0.61
4:HA:46:ASP:OD1	4:HA:50:ASN:ND2	2.32	0.61
3:HB:412:GLU:OE1	3:HB:416:ASN:ND2	2.33	0.61
3:HD:13:GLY:HA2	3:HD:16:ILE:HB	1.82	0.61
3:HD:170:VAL:N	3:HD:202:ILE:O	2.29	0.61
4:HK:262:TYR:OH	3:HL:391:ARG:O	2.18	0.61
4:IC:32:PRO:O	4:IC:85:GLN:NE2	2.33	0.61
3:ID:139:LEU:HD21	3:ID:170:VAL:HG22	1.81	0.61
4:IK:423:GLU:O	4:IK:427:ALA:N	2.32	0.61
3:IL:117:LEU:HD11	3:IL:154:LYS:HD2	1.81	0.61
4:IM:278:ALA:O	4:IM:370:LYS:NZ	2.33	0.61
19:J3:134:TRP:O	19:J3:137:THR:OG1	2.16	0.61
3:JB:60:VAL:HG23	3:JB:86:ARG:HH11	1.64	0.61
3:JB:374:ILE:HA	3:JB:377:LEU:HD13	1.82	0.61
3:JF:317:PHE:O	3:JF:354:CYS:N	2.31	0.61
3:JH:372:THR:HB	3:JH:375:GLN:HE22	1.64	0.61
4:JK:208:ALA:H	4:JK:304:LYS:HZ1	1.49	0.61
4:KA:154:MET:HE1	4:KA:197:HIS:HB2	1.83	0.61
4:KC:269:LEU:N	4:KC:379:SER:O	2.30	0.61
4:KG:264:ARG:O	4:KG:266:HIS:ND1	2.32	0.61
3:KH:317:PHE:O	3:KH:354:CYS:N	2.30	0.61
3:LB:190:HIS:HA	3:LB:415:MET:HE3	1.80	0.61
4:LE:1:MET:SD	4:LE:2:ARG:N	2.73	0.61
4:LI:391:LEU:HD23	4:LI:394:LYS:HZ1	1.65	0.61
3:MB:107:THR:OG1	3:MB:401:GLU:OE2	2.18	0.61
3:MF:155:ILE:HA	3:MF:158:GLU:HB2	1.81	0.61
4:MG:208:ALA:H	4:MG:304:LYS:HZ1	1.49	0.61
4:MM:171:ILE:HD12	4:MM:204:VAL:HG23	1.82	0.61
4:NA:2:ARG:HA	4:NA:133:GLN:HE22	1.65	0.61
4:NA:127:ASP:OD1	4:NA:128:LEU:N	2.33	0.61
3:NH:309:ARG:N	3:NH:372:THR:OG1	2.29	0.61
4:NI:9:VAL:HG11	4:NI:150:ALA:HB2	1.80	0.61
28:O3:38:TYR:CZ	28:O3:40:GLN:HB3	2.35	0.61
3:OF:247:ASN:HB3	3:OF:252:LYS:HG2	1.83	0.61
3:OJ:309:ARG:NH2	3:OJ:426:GLN:O	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:P1:161:ALA:HA	29:P1:178:GLY:HA3	1.82	0.61
4:PA:154:MET:HE3	4:PA:194:THR:HG22	1.82	0.61
4:PA:161:TYR:O	4:PA:166:LYS:NZ	2.33	0.61
3:PJ:170:VAL:N	3:PJ:202:ILE:O	2.26	0.61
30:Q2:1424:ASP:OD1	30:Q2:1509:ASP:HB3	2.00	0.61
3:QB:132:GLY:HA2	3:QB:162:ARG:HB3	1.82	0.61
3:QD:292:GLN:O	3:QD:298:ASN:ND2	2.32	0.61
3:QJ:233:MET:HA	3:QJ:236:VAL:HG12	1.82	0.61
4:QK:295:CYS:HB2	4:QK:377:MET:HE3	1.81	0.61
3:SD:2:ARG:NH2	3:SD:130:LEU:O	2.33	0.61
3:SF:322:SER:N	3:SF:325:GLU:OE2	2.34	0.61
4:SG:53:PHE:O	4:SG:64:ARG:NH1	2.34	0.61
3:SH:246:LEU:HB2	3:SH:352:ALA:HB1	1.80	0.61
4:TK:32:PRO:O	4:TK:85:GLN:NE2	2.34	0.61
4:UI:207:GLU:HB2	4:UI:304:LYS:HZ1	1.65	0.61
3:WD:350:LYS:HE3	4:WE:180:ALA:HA	1.82	0.61
34:XF:83:LEU:HD11	34:XF:161:ARG:HB2	1.83	0.61
37:YE:5:LYS:HA	37:YE:8:LEU:HB2	1.82	0.61
37:YG:114:ARG:NH2	37:YG:133:HIS:O	2.34	0.61
37:YI:136:GLY:O	37:YI:140:LEU:N	2.31	0.61
37:YJ:161:LYS:HG3	37:YJ:162:VAL:HG23	1.81	0.61
37:YM:18:PHE:HA	37:YM:21:GLN:HB2	1.83	0.61
2:A2:328:LEU:HD21	2:A3:211:SER:HA	1.82	0.61
4:AE:307:PRO:HD2	26:N2:74:ARG:HH21	1.65	0.61
4:AG:205:ASP:OD2	4:AG:304:LYS:NZ	2.30	0.61
4:AG:416:GLY:HA3	34:XD:108:TYR:CZ	2.36	0.61
3:AH:141:GLY:HA3	39:AH:501:GTP:H5"	1.82	0.61
4:AM:127:ASP:OD1	4:AM:128:LEU:N	2.33	0.61
5:B4:202:LYS:HD2	5:B4:205:PRO:HB3	1.81	0.61
5:B5:35:SER:O	5:B5:39:ARG:HG3	2.01	0.61
5:B7:392:ASP:OD2	7:C8:341:ASN:ND2	2.32	0.61
4:BE:391:LEU:HD23	4:BE:394:LYS:HZ1	1.65	0.61
3:BF:8:GLN:HE21	3:BF:13:GLY:C	2.08	0.61
3:BF:309:ARG:N	3:BF:372:THR:OG1	2.27	0.61
4:BI:65:ALA:O	4:BI:91:GLN:NE2	2.33	0.61
4:BI:127:ASP:OD1	4:BI:128:LEU:N	2.34	0.61
3:BL:250:LEU:HD13	3:BL:253:LEU:HD12	1.82	0.61
39:CB:501:GTP:O3G	39:CB:501:GTP:O3'	2.13	0.61
3:CF:16:ILE:HD13	3:CF:226:ASN:ND2	2.16	0.61
3:CF:276:ARG:HH21	13:G1:308:PHE:HE1	1.48	0.61
4:CG:5:ILE:HD13	4:CG:64:ARG:HB3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CH:54:ALA:HB3	3:CH:58:LYS:HB2	1.82	0.61
4:CI:316:CYS:HB3	4:CI:378:LEU:HB3	1.81	0.61
3:CL:46:ARG:HH22	4:CM:73:THR:HG23	1.66	0.61
7:Cc:448:LEU:HD13	7:Cd:114:ARG:HH22	1.66	0.61
6:D:262:ILE:HG13	6:D:328:ALA:HA	1.81	0.61
6:D:292:MET:HA	6:D:327:VAL:HG22	1.82	0.61
8:D2:90:ALA:HB3	13:G1:7:HIS:CD2	2.33	0.61
8:D3:267:ARG:HA	8:D3:270:ARG:HE	1.66	0.61
8:D8:272:ARG:HH22	8:D8:273:LEU:HG	1.66	0.61
3:DB:328:GLU:OE2	3:DB:329:GLN:NE2	2.34	0.61
4:DI:295:CYS:HB2	4:DI:377:MET:HE3	1.82	0.61
4:DK:264:ARG:O	4:DK:266:HIS:ND1	2.34	0.61
3:DL:32:PRO:O	3:DL:83:GLN:NE2	2.26	0.61
3:DL:317:PHE:O	3:DL:354:CYS:N	2.31	0.61
3:DL:420:SER:O	3:DL:424:GLN:N	2.33	0.61
4:EC:108:TYR:O	4:EC:112:LYS:NZ	2.27	0.61
4:EI:216:ASN:ND2	4:EI:275:VAL:O	2.34	0.61
3:EJ:75:SER:HA	14:G6:482:LYS:HD3	1.82	0.61
3:EJ:280:GLN:OE1	3:EJ:280:GLN:N	2.29	0.61
11:F9:470:MET:HB3	11:F9:474:LYS:HE2	1.82	0.61
3:FB:4:ILE:HD11	3:FB:131:GLN:HB2	1.83	0.61
3:FD:219:THR:OG1	13:G1:458:ASN:ND2	2.31	0.61
4:FE:98:ASP:O	4:FE:105:ARG:NH2	2.27	0.61
4:FG:25:CYS:HA	4:FG:30:ILE:HD13	1.83	0.61
3:FJ:132:GLY:HA3	3:FJ:163:ILE:H	1.64	0.61
3:FL:114:ASP:OD1	3:FL:115:SER:N	2.34	0.61
11:Fh:202:ILE:HA	11:Fh:206:LEU:HD12	1.81	0.61
12:G:43:SER:O	12:G:46:LYS:HG2	2.01	0.61
14:G5:527:GLU:HA	14:G5:530:LEU:HD12	1.81	0.61
4:GA:6:SER:HA	4:GA:136:LEU:HB2	1.82	0.61
4:GE:53:PHE:O	4:GE:64:ARG:NH1	2.33	0.61
4:GE:89:PRO:HD2	4:HE:280:LYS:HZ3	1.66	0.61
3:GF:309:ARG:HE	3:GF:426:GLN:HE21	1.46	0.61
4:GG:172:TYR:N	4:GG:204:VAL:O	2.32	0.61
3:GH:73:MET:HA	3:GH:76:VAL:HG22	1.82	0.61
4:GI:8:HIS:NE2	4:GI:21:TRP:HH2	1.98	0.61
3:GL:60:VAL:HG23	3:GL:86:ARG:HH11	1.65	0.61
3:HF:132:GLY:HA2	3:HF:162:ARG:HB3	1.83	0.61
3:HL:103:LYS:NZ	3:HL:108:GLU:OE2	2.34	0.61
17:I3:51:ASP:HA	17:I3:54:ASN:HB2	1.82	0.61
4:IC:271:THR:HA	4:IC:302:MET:HE1	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IF:292:GLN:O	3:IF:298:ASN:ND2	2.32	0.61
3:IL:344:TRP:O	4:IM:401:LYS:NZ	2.27	0.61
19:J3:153:ILE:HD11	19:J3:165:VAL:HG11	1.83	0.61
4:JC:119:LEU:HD23	4:JC:122:ILE:HD12	1.83	0.61
4:JK:216:ASN:ND2	4:JK:275:VAL:O	2.33	0.61
20:K:74:ASN:ND2	20:K:266:GLN:O	2.34	0.61
4:KC:54:SER:HB2	4:KC:62:VAL:HB	1.83	0.61
4:KC:203:MET:SD	4:KC:203:MET:N	2.74	0.61
4:KE:32:PRO:O	4:KE:85:GLN:NE2	2.33	0.61
3:KH:385:PHE:HA	3:KH:388:MET:HE2	1.82	0.61
4:KI:207:GLU:HB2	4:KI:304:LYS:NZ	2.16	0.61
3:LJ:412:GLU:OE1	3:LJ:416:ASN:ND2	2.34	0.61
24:M3:47:LEU:O	24:M3:49:GLN:NE2	2.33	0.61
3:MD:8:GLN:HB2	3:MD:65:LEU:HA	1.83	0.61
3:MH:60:VAL:HG23	3:MH:86:ARG:HH11	1.65	0.61
4:MI:108:TYR:O	4:MI:112:LYS:NZ	2.25	0.61
4:MI:419:SER:HA	4:MI:422:ARG:HE	1.64	0.61
4:MK:306:ASP:OD2	4:MK:309:HIS:N	2.33	0.61
3:ND:337:ASN:HB2	3:ND:340:TYR:HB2	1.83	0.61
4:NG:295:CYS:HB2	4:NG:377:MET:HE3	1.83	0.61
3:NH:84:ILE:O	3:NH:86:ARG:NH1	2.33	0.61
3:NH:322:SER:N	3:NH:325:GLU:OE2	2.33	0.61
4:NI:138:PHE:HE1	4:NI:169:PHE:HD2	1.46	0.61
4:NI:271:THR:HA	4:NI:302:MET:HE1	1.82	0.61
4:OA:205:ASP:OD2	4:OA:304:LYS:NZ	2.31	0.61
3:OH:139:LEU:HD21	3:OH:170:VAL:HG22	1.82	0.61
29:P1:173:MET:HE3	29:P1:174:PHE:N	2.15	0.61
29:P3:470:LYS:HD2	29:P3:475:GLU:HB2	1.81	0.61
4:PC:5:ILE:HD13	4:PC:64:ARG:HB3	1.82	0.61
4:PE:127:ASP:OD1	4:PE:128:LEU:N	2.34	0.61
3:PL:357:PRO:HB3	3:PL:362:LYS:HA	1.83	0.61
4:PM:206:ASN:HA	4:PM:209:ILE:HD12	1.82	0.61
3:QD:170:VAL:N	3:QD:202:ILE:O	2.31	0.61
4:QE:319:TYR:HE2	4:QE:328:VAL:HG13	1.66	0.61
3:QF:309:ARG:HE	3:QF:426:GLN:HE21	1.47	0.61
3:QJ:114:ASP:OD1	3:QJ:115:SER:N	2.34	0.61
3:QL:246:LEU:HB2	3:QL:352:ALA:HB1	1.82	0.61
31:R1:251:PHE:O	31:R1:257:ARG:NH2	2.34	0.61
4:RC:229:ARG:HE	4:RC:368:LEU:HD22	1.65	0.61
3:RD:322:SER:N	3:RD:325:GLU:OE2	2.33	0.61
3:SD:107:THR:OG1	3:SD:401:GLU:OE2	2.17	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:SE:11:GLN:HB2	4:SE:74:VAL:HG21	1.81	0.61
4:SG:12:ALA:HB1	39:SG:501:GTP:C2	2.36	0.61
4:SK:54:SER:HB2	4:SK:62:VAL:HB	1.81	0.61
3:SL:39:ASP:OD1	3:SL:43:GLN:NE2	2.33	0.61
3:SL:101:TRP:HB2	3:SL:184:ASN:HD22	1.66	0.61
3:TB:3:GLU:HG2	3:TB:130:LEU:HD23	1.81	0.61
3:TD:267:MET:O	3:TD:369:GLY:N	2.33	0.61
3:TL:132:GLY:HA2	3:TL:162:ARG:HB3	1.81	0.61
3:TN:198:GLU:HA	3:TN:266:PHE:HE2	1.66	0.61
3:UJ:77:ARG:O	3:UJ:77:ARG:NH1	2.31	0.61
3:VD:247:ASN:HB3	3:VD:252:LYS:HG2	1.81	0.61
3:VD:250:LEU:HD13	3:VD:253:LEU:HD12	1.82	0.61
3:VF:139:LEU:N	3:VF:168:SER:OG	2.33	0.61
3:WJ:317:PHE:HB3	3:WJ:321:MET:HE3	1.82	0.61
4:WK:396:ASP:OD1	4:WK:397:LEU:N	2.32	0.61
33:X:397:VAL:HA	33:X:400:ARG:HD2	1.82	0.61
34:XG:20:LYS:O	34:XG:23:GLN:NE2	2.28	0.61
37:YJ:114:ARG:NH2	37:YJ:133:HIS:O	2.32	0.61
37:YP:76:LEU:O	37:YP:80:CYS:N	2.33	0.61
2:A2:183:THR:HG23	2:A2:184:ILE:HG23	1.82	0.61
2:A2:203:LYS:HA	2:A2:206:ARG:HH21	1.64	0.61
4:AE:280:LYS:NZ	4:ME:89:PRO:HD2	2.16	0.61
4:AE:283:HIS:HE1	4:ME:88:HIS:HA	1.66	0.61
4:AI:89:PRO:HD2	4:BI:280:LYS:HZ3	1.65	0.61
3:AJ:269:GLY:N	3:AJ:367:PHE:O	2.34	0.61
3:AL:5:VAL:HG23	3:AL:130:LEU:HD21	1.81	0.61
4:AM:1:MET:SD	4:AM:2:ARG:N	2.74	0.61
3:BD:361:LEU:HB3	14:G4:93:ARG:HH22	1.66	0.61
3:BL:4:ILE:HD11	3:BL:131:GLN:HB2	1.81	0.61
4:BM:32:PRO:O	4:BM:85:GLN:NE2	2.34	0.61
7:C3:322:ARG:O	7:C3:325:THR:OG1	2.13	0.61
7:C7:218:GLU:O	7:C7:222:GLU:HG2	2.00	0.61
7:C9:370:GLN:OE1	7:C9:374:GLN:NE2	2.33	0.61
4:CC:79:ARG:HB3	15:H1:218:ILE:HD12	1.82	0.61
3:CL:3:GLU:HG2	3:CL:130:LEU:HD23	1.82	0.61
8:D2:220:GLU:O	8:D2:224:ILE:HG13	2.00	0.61
4:DE:269:LEU:N	4:DE:379:SER:O	2.26	0.61
3:DH:170:VAL:N	3:DH:202:ILE:O	2.28	0.61
4:DI:33:ASP:OD1	4:DI:34:GLY:N	2.33	0.61
4:DK:196:GLU:N	4:DK:196:GLU:OE1	2.33	0.61
4:DK:262:TYR:OH	3:DL:391:ARG:O	2.19	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DK:324:VAL:HG11	3:DL:219:THR:HB	1.82	0.61
4:EA:288:VAL:O	4:EA:292:THR:OG1	2.16	0.61
3:EB:46:ARG:HH22	4:EC:73:THR:HA	1.64	0.61
4:EC:224:TYR:CE2	39:EC:501:GTP:C5	2.87	0.61
3:EF:118:ASP:O	3:EF:122:LYS:HG2	1.99	0.61
4:EK:324:VAL:HG11	3:EL:219:THR:HB	1.81	0.61
9:F:382:ARG:HH12	9:F:383:ALA:HB2	1.65	0.61
4:FC:245:ASP:O	4:FC:356:ASN:ND2	2.34	0.61
3:FD:289:LEU:O	3:FD:293:MET:N	2.28	0.61
4:FE:338:LYS:HZ2	4:FE:340:THR:H	1.48	0.61
3:FF:284:LEU:HG	3:FF:363:MET:HE2	1.83	0.61
3:FJ:372:THR:HG21	3:FJ:426:GLN:HG3	1.81	0.61
3:FJ:392:LYS:HB2	3:FJ:395:LEU:HD13	1.81	0.61
4:FK:2:ARG:NH2	4:FK:250:VAL:O	2.33	0.61
3:FL:52:ASN:OD1	3:FL:62:ARG:NH1	2.34	0.61
11:Fk:462:LEU:HG	11:Fk:466:LYS:HZ2	1.65	0.61
13:G2:138:VAL:HG13	13:G2:141:SER:HB3	1.82	0.61
14:G4:715:GLU:H	14:G4:720:VAL:CG2	2.13	0.61
3:GB:324:LYS:NZ	4:GC:222:PRO:O	2.27	0.61
4:GC:144:GLY:N	39:GC:501:GTP:O2B	2.31	0.61
3:GF:324:LYS:NZ	4:GG:222:PRO:O	2.22	0.61
3:GH:322:SER:N	3:GH:325:GLU:OE2	2.32	0.61
15:H1:281:LEU:HD23	15:H1:282:ILE:N	2.15	0.61
4:HC:371:VAL:HG11	4:HC:374:ALA:HB2	1.83	0.61
4:IA:127:ASP:OD1	4:IA:128:LEU:N	2.33	0.61
4:IG:396:ASP:OD1	4:IG:397:LEU:N	2.34	0.61
3:IH:132:GLY:HA3	3:IH:163:ILE:H	1.66	0.61
3:IH:385:PHE:HA	3:IH:388:MET:HE2	1.83	0.61
4:II:98:ASP:O	4:II:105:ARG:NH2	2.27	0.61
3:IJ:269:GLY:N	3:IJ:367:PHE:O	2.32	0.61
3:IL:48:ASN:O	3:IL:62:ARG:NH2	2.31	0.61
19:J1:105:CYS:HB3	19:J1:112:SER:HB3	1.83	0.61
3:JB:39:ASP:OD1	3:JB:43:GLN:NE2	2.34	0.61
3:JF:84:ILE:O	3:JF:86:ARG:NH1	2.33	0.61
3:JL:322:SER:N	3:JL:325:GLU:OE2	2.34	0.61
3:KH:267:MET:O	3:KH:369:GLY:N	2.27	0.61
3:KJ:250:LEU:HD13	3:KJ:253:LEU:HD12	1.83	0.61
4:KK:192:HIS:HA	4:KK:195:LEU:HD23	1.81	0.61
20:L:17:GLU:HA	20:L:20:TYR:CD2	2.35	0.61
22:L4:81:CYS:SG	22:L4:82:SER:N	2.74	0.61
3:LB:153:SER:HB3	3:LB:191:GLN:NE2	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LB:423:GLN:HE21	3:LB:427:ASP:HB2	1.66	0.61
3:LD:170:VAL:N	3:LD:202:ILE:O	2.29	0.61
3:LF:385:PHE:HA	3:LF:388:MET:HE2	1.82	0.61
4:LK:93:ILE:HG13	4:LK:118:VAL:HG12	1.83	0.61
3:MJ:141:GLY:HA3	39:MJ:501:GTP:H5"	1.81	0.61
3:ND:256:ASN:HB3	3:ND:350:LYS:HG3	1.83	0.61
29:P1:353:LYS:HE2	29:P1:354:LYS:HE3	1.82	0.61
29:P1:606:SER:OG	29:P1:608:ASP:OD1	2.18	0.61
29:P3:314:ILE:HB	29:P3:328:ALA:HB3	1.82	0.61
4:PC:12:ALA:HB2	39:PC:501:GTP:H5"	1.82	0.61
3:PH:170:VAL:N	3:PH:202:ILE:O	2.29	0.61
4:PI:53:PHE:O	4:PI:64:ARG:NH1	2.34	0.61
4:PK:396:ASP:HB3	4:PK:422:ARG:HH22	1.66	0.61
3:QD:13:GLY:HA2	3:QD:16:ILE:HB	1.83	0.61
3:QD:117:LEU:HD11	3:QD:154:LYS:HD2	1.81	0.61
4:QK:172:TYR:N	4:QK:204:VAL:O	2.32	0.61
4:QM:88:HIS:HB3	4:QM:91:GLN:HB2	1.82	0.61
3:RB:4:ILE:HD11	3:RB:131:GLN:HB2	1.82	0.61
3:RF:392:LYS:HB2	3:RF:395:LEU:HD13	1.82	0.61
3:RH:246:LEU:HB2	3:RH:352:ALA:HB1	1.82	0.61
3:RJ:323:MET:SD	3:RJ:324:LYS:NZ	2.63	0.61
3:RJ:379:LYS:O	3:RJ:382:SER:OG	2.18	0.61
4:RK:192:HIS:HA	4:RK:195:LEU:HD23	1.83	0.61
3:SD:77:ARG:O	3:SD:77:ARG:NH1	2.30	0.61
3:SF:412:GLU:HA	3:SF:415:MET:HE2	1.82	0.61
4:SI:49:PHE:O	4:SI:53:PHE:N	2.32	0.61
3:SJ:39:ASP:OD1	3:SJ:43:GLN:NE2	2.33	0.61
4:SM:358:GLN:NE2	4:SM:359:PRO:O	2.33	0.61
4:TC:103:TYR:HB2	4:TC:186:ASN:HB2	1.81	0.61
3:TF:54:ALA:HB3	3:TF:58:LYS:HB3	1.83	0.61
3:TF:250:LEU:O	3:TF:254:ALA:N	2.28	0.61
3:TH:48:ASN:O	3:TH:62:ARG:NH2	2.28	0.61
4:TI:25:CYS:HB2	4:TI:30:ILE:HB	1.83	0.61
3:TJ:286:VAL:HG21	3:TJ:325:GLU:HG3	1.83	0.61
4:UI:316:CYS:HB3	4:UI:378:LEU:HB2	1.83	0.61
3:UJ:28:HIS:O	3:UJ:43:GLN:NE2	2.33	0.61
3:VB:390:ARG:HH12	3:VB:391:ARG:HH21	1.48	0.61
4:WI:49:PHE:O	4:WI:53:PHE:N	2.33	0.61
37:YA:15:TYR:HA	37:YA:18:PHE:HB3	1.83	0.61
37:YC:130:ALA:HA	37:YC:134:TYR:HB2	1.81	0.61
37:YF:21:GLN:HB2	37:YF:24:THR:OG1	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:YJ:15:TYR:HA	37:YJ:18:PHE:HB3	1.83	0.61
37:YS:33:ARG:NH2	37:YS:134:TYR:OH	2.33	0.61
2:A1:127:LEU:H	2:A2:11:PHE:HE1	1.47	0.61
4:AC:306:ASP:OD1	4:AC:308:ARG:NH1	2.34	0.61
5:B2:126:ILE:O	5:B3:12:TYR:OH	2.13	0.61
4:BC:229:ARG:HH12	4:BC:366:GLY:HA2	1.65	0.61
4:BM:271:THR:HA	4:BM:302:MET:HE1	1.83	0.61
7:C3:404:THR:OG1	7:C3:405:ARG:NH1	2.33	0.61
7:C7:360:LYS:O	7:C7:364:HIS:ND1	2.34	0.61
7:C8:274:LEU:HB3	7:C9:399:ARG:NH1	2.16	0.61
7:Cb:163:GLU:HG3	7:Cb:167:MET:HE1	1.83	0.61
7:Cd:298:GLU:OE1	7:Cd:298:GLU:N	2.25	0.61
8:D4:327:THR:O	8:D4:330:THR:OG1	2.17	0.61
8:D8:309:GLN:NE2	8:D8:313:ASP:OD2	2.33	0.61
4:DC:65:ALA:O	4:DC:91:GLN:NE2	2.33	0.61
4:EK:25:CYS:HB2	4:EK:30:ILE:HB	1.82	0.61
3:EL:282:ARG:NH2	3:EL:292:GLN:OE1	2.22	0.61
3:FF:130:LEU:HB2	3:FF:162:ARG:HH11	1.65	0.61
4:FK:269:LEU:N	4:FK:379:SER:O	2.30	0.61
13:G1:138:VAL:HG13	13:G1:141:SER:HB3	1.82	0.61
13:G1:368:ASP:OD1	13:G1:372:LYS:NZ	2.33	0.61
14:G5:24:GLN:NE2	4:MG:46:ASP:OD2	2.34	0.61
14:G5:573:HIS:CE1	14:G5:575:LYS:HD3	2.35	0.61
4:GA:245:ASP:O	4:GA:356:ASN:ND2	2.33	0.61
3:GB:211:CYS:HA	3:GB:215:LEU:HB3	1.83	0.61
4:GC:53:PHE:O	4:GC:64:ARG:NH1	2.33	0.61
4:GE:415:GLU:OE1	4:GE:419:SER:OG	2.18	0.61
4:GI:101:ASN:HA	4:GI:144:GLY:HA2	1.82	0.61
4:GK:272:TYR:CZ	4:GK:274:PRO:HG2	2.36	0.61
15:H4:13:GLU:HG2	15:H4:40:ALA:HA	1.82	0.61
3:HB:141:GLY:HA3	39:HB:501:GTP:H5”	1.82	0.61
3:HH:322:SER:N	3:HH:325:GLU:OE2	2.34	0.61
3:HJ:182:PRO:HG2	3:HJ:388:MET:HE1	1.82	0.61
4:HK:261:PRO:HA	3:HL:394:PHE:HE1	1.66	0.61
16:I:109:LYS:NZ	16:I:110:LYS:O	2.33	0.61
4:IA:52:PHE:HZ	4:IA:239:THR:HB	1.65	0.61
4:IE:271:THR:O	4:IE:377:MET:N	2.26	0.61
4:II:252:LEU:HA	4:II:255:PHE:HD2	1.65	0.61
19:J2:165:VAL:O	19:J2:177:ASN:HB3	2.00	0.61
3:JB:174:LYS:HG3	3:JB:175:VAL:HG12	1.82	0.61
4:JC:34:GLY:HA2	4:JC:86:LEU:HD21	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:JG:9:VAL:HG11	4:JG:150:ALA:HB2	1.83	0.61
4:JI:229:ARG:HE	4:JI:368:LEU:HD22	1.65	0.61
21:K3:314:MET:O	21:K3:318:GLU:N	2.30	0.61
3:KD:4:ILE:HD11	3:KD:131:GLN:HB2	1.82	0.61
4:KG:203:MET:SD	4:KG:203:MET:N	2.74	0.61
4:KK:316:CYS:HB3	4:KK:378:LEU:HB3	1.83	0.61
4:LI:144:GLY:N	39:LI:501:GTP:O2B	2.34	0.61
3:LJ:240:LEU:HA	3:LJ:248:ALA:HB1	1.83	0.61
4:LK:269:LEU:N	4:LK:379:SER:O	2.26	0.61
3:LL:389:PHE:HZ	3:LL:405:GLU:HB2	1.65	0.61
24:M3:98:HIS:ND1	24:M3:101:ASP:OD1	2.32	0.61
3:MF:8:GLN:HE21	3:MF:14:ASN:HA	1.65	0.61
3:MF:322:SER:N	3:MF:325:GLU:OE2	2.33	0.61
3:MH:333:VAL:HA	3:MH:336:LYS:HB3	1.83	0.61
3:MJ:240:LEU:HA	3:MJ:248:ALA:HB1	1.82	0.61
3:ML:139:LEU:N	3:ML:168:SER:OG	2.33	0.61
3:NF:398:TYR:HB3	3:NF:403:MET:HB2	1.83	0.61
4:NG:171:ILE:HD12	4:NG:204:VAL:HG13	1.82	0.61
4:NG:236:SER:O	4:NG:243:ARG:NH2	2.32	0.61
4:OA:216:ASN:ND2	4:OA:275:VAL:O	2.34	0.61
3:OB:323:MET:SD	3:OB:323:MET:N	2.69	0.61
3:OF:139:LEU:HD21	3:OF:170:VAL:HG22	1.83	0.61
4:OK:88:HIS:HB3	4:OK:91:GLN:HB2	1.82	0.61
3:PB:12:CYS:SG	3:PB:13:GLY:N	2.74	0.61
3:PH:357:PRO:HB3	3:PH:362:LYS:HA	1.81	0.61
4:PI:50:ASN:O	4:PI:64:ARG:NH1	2.34	0.61
3:QB:46:ARG:HH22	4:QC:73:THR:HA	1.65	0.61
3:QH:317:PHE:HB3	3:QH:321:MET:HE3	1.82	0.61
3:QJ:290:THR:HG22	3:QJ:294:PHE:HE1	1.66	0.61
4:QK:172:TYR:HB2	4:QK:203:MET:HB3	1.80	0.61
4:RE:34:GLY:HA2	4:RE:86:LEU:HD21	1.83	0.61
4:RE:396:ASP:OD1	4:RE:397:LEU:N	2.34	0.61
3:RH:13:GLY:HA2	3:RH:16:ILE:HB	1.81	0.61
3:RH:84:ILE:O	3:RH:86:ARG:NH1	2.34	0.61
3:RH:423:GLN:O	3:RH:427:ASP:N	2.32	0.61
3:RJ:4:ILE:HD11	3:RJ:131:GLN:HB2	1.82	0.61
3:SB:101:TRP:HB2	3:SB:184:ASN:HD22	1.64	0.61
3:SD:84:ILE:O	3:SD:86:ARG:NH1	2.34	0.61
3:SD:131:GLN:HB3	3:SD:163:ILE:HD12	1.83	0.61
4:SG:1:MET:SD	4:SG:2:ARG:N	2.73	0.61
4:SI:396:ASP:OD1	4:SI:422:ARG:NH1	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TB:328:GLU:OE1	3:TB:332:ASN:ND2	2.34	0.61
3:TF:83:GLN:O	3:TF:86:ARG:NH2	2.34	0.61
4:TI:229:ARG:HE	4:TI:368:LEU:HD22	1.66	0.61
4:TM:49:PHE:O	4:TM:53:PHE:N	2.33	0.61
3:UD:84:ILE:O	3:UD:86:ARG:NH1	2.34	0.61
3:UF:28:HIS:O	3:UF:43:GLN:NE2	2.34	0.61
4:UG:144:GLY:N	39:UG:501:GTP:O2B	2.32	0.61
4:UK:388:TRP:HB3	4:UK:425:LEU:HD11	1.82	0.61
3:UL:4:ILE:HD11	3:UL:131:GLN:HB2	1.81	0.61
3:UL:141:GLY:HA3	39:UL:501:GTP:H5"	1.82	0.61
4:VA:216:ASN:ND2	4:VA:275:VAL:O	2.33	0.61
3:VD:48:ASN:O	3:VD:62:ARG:NH2	2.32	0.61
4:VE:271:THR:HB	4:VE:377:MET:HB3	1.82	0.61
4:VI:52:PHE:HE2	4:VI:243:ARG:HH11	1.48	0.61
3:VJ:302:ALA:HB1	3:VJ:377:LEU:HD11	1.82	0.61
4:WE:50:ASN:O	4:WE:64:ARG:NH1	2.34	0.61
4:WE:208:ALA:H	4:WE:304:LYS:NZ	1.98	0.61
34:XD:82:ASN:ND2	34:XD:127:ASP:OD1	2.33	0.61
35:XM:93:LEU:HG	35:XM:97:PHE:HE2	1.66	0.61
36:Y:145:ARG:NH2	36:Z:463:LYS:O	2.32	0.61
37:YP:12:GLU:OE1	37:YP:16:LYS:NZ	2.34	0.61
1:A:313:ARG:NH2	4:HA:25:CYS:O	2.33	0.61
3:AB:170:VAL:N	3:AB:202:ILE:O	2.25	0.61
3:AB:215:LEU:HD11	3:AB:228:LEU:HD11	1.82	0.61
3:AF:173:PRO:O	3:AF:380:ARG:NH2	2.33	0.61
3:AH:250:LEU:O	3:AH:254:ALA:N	2.26	0.61
3:AL:16:ILE:HD13	3:AL:226:ASN:HD22	1.65	0.61
5:B4:168:ILE:HD13	5:B4:171:GLN:HE22	1.65	0.61
5:B6:349:ILE:O	5:B6:353:LYS:HG2	2.01	0.61
5:B8:202:LYS:HB2	5:B9:319:GLU:HG3	1.81	0.61
3:BF:151:LEU:HD22	3:BF:154:LYS:HZ1	1.65	0.61
3:BH:216:LYS:O	3:BH:276:ARG:NH2	2.34	0.61
3:BJ:350:LYS:HE3	4:BK:181:VAL:H	1.65	0.61
7:C4:124:THR:O	7:C4:128:ILE:HG12	2.01	0.61
7:C8:363:THR:HG22	7:C8:367:LYS:HZ1	1.64	0.61
3:CB:4:ILE:HD11	3:CB:131:GLN:HB2	1.83	0.61
4:CG:34:GLY:HA2	4:CG:86:LEU:HD21	1.82	0.61
4:CG:316:CYS:HB3	4:CG:378:LEU:HB3	1.82	0.61
4:CG:338:LYS:HZ2	4:CG:340:THR:H	1.46	0.61
3:CH:322:SER:N	3:CH:325:GLU:OE2	2.33	0.61
3:CJ:46:ARG:NH2	3:CJ:243:PRO:HD3	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CK:12:ALA:HB1	39:CK:501:GTP:C2	2.35	0.61
3:CL:306:ARG:O	3:CL:306:ARG:NE	2.34	0.61
3:CL:324:LYS:HE2	4:CM:222:PRO:HG2	1.82	0.61
7:Ca:181:LEU:HB3	7:Ca:237:LEU:HD12	1.83	0.61
7:Cc:178:LYS:NZ	7:Cc:241:ASN:OD1	2.33	0.61
6:D:32:TRP:CD1	6:D:91:GLN:H	2.19	0.61
6:D:156:HIS:HE1	6:D:169:ILE:HD11	1.65	0.61
6:D:333:GLN:H	6:D:336:PRO:HG3	1.65	0.61
8:D3:194:ILE:HG23	10:E2:134:TRP:NE1	2.16	0.61
8:D7:176:LEU:O	8:D7:179:GLU:HG2	1.99	0.61
4:DA:338:LYS:HZ2	4:DA:340:THR:H	1.48	0.61
4:DC:272:TYR:CZ	4:DC:274:PRO:HG2	2.36	0.61
3:DJ:250:LEU:O	3:DJ:254:ALA:N	2.24	0.61
4:EA:427:ALA:HA	4:EA:430:LYS:HG2	1.82	0.61
4:EG:53:PHE:O	4:EG:64:ARG:NH1	2.33	0.61
3:EH:83:GLN:O	3:EH:86:ARG:NH2	2.34	0.61
4:EI:417:GLU:OE1	4:EI:417:GLU:N	2.28	0.61
11:F7:89:ARG:HH22	11:F8:204:ILE:HA	1.65	0.61
4:FA:172:TYR:N	4:FA:204:VAL:O	2.32	0.61
3:FH:52:ASN:OD1	3:FH:62:ARG:NH1	2.33	0.61
11:Fm:158:TYR:CE2	11:Fm:162:ARG:HD3	2.36	0.61
13:G2:474:LYS:HB2	13:G2:485:TYR:H	1.64	0.61
4:GI:285:GLN:HE22	4:GI:287:SER:HB3	1.66	0.61
4:HA:207:GLU:HB2	4:HA:304:LYS:HZ1	1.66	0.61
4:HA:295:CYS:HB2	4:HA:377:MET:HE3	1.82	0.61
3:HB:54:ALA:HA	3:IB:283:ALA:HB2	1.83	0.61
4:HC:285:GLN:HE22	4:HC:287:SER:HB3	1.65	0.61
3:HF:84:ILE:O	3:HF:86:ARG:NH1	2.34	0.61
3:HF:344:TRP:CD1	4:HG:401:LYS:HZ2	2.18	0.61
3:HL:30:ILE:HG13	3:HL:36:TYR:HD1	1.66	0.61
3:JB:156:ARG:NH1	3:JB:195:ASN:O	2.33	0.61
3:JD:170:VAL:N	3:JD:202:ILE:O	2.29	0.61
3:JL:55:THR:O	3:JL:58:LYS:NZ	2.30	0.61
21:K4:329:SER:HG	21:K4:464:ARG:HE	1.49	0.61
4:KA:7:ILE:N	4:KA:136:LEU:O	2.33	0.61
4:KE:67:PHE:HB2	4:KE:92:LEU:HD13	1.81	0.61
4:KE:402:ARG:HG3	31:R1:128:VAL:HG21	1.81	0.61
3:KH:170:VAL:N	3:KH:202:ILE:O	2.29	0.61
22:L3:142:PHE:HZ	4:MK:298:PRO:HB2	1.66	0.61
4:LC:358:GLN:NE2	4:LC:359:PRO:O	2.29	0.61
3:LF:262:ARG:HD2	3:LF:421:GLU:HG3	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:LG:203:MET:N	4:LG:203:MET:SD	2.74	0.61
3:LH:257:MET:O	3:LH:259:PRO:HD3	2.01	0.61
3:LH:374:ILE:HA	3:LH:377:LEU:HD13	1.82	0.61
4:LK:192:HIS:HA	4:LK:195:LEU:HD23	1.82	0.61
4:MG:216:ASN:HB2	4:MG:276:ILE:HD12	1.80	0.61
3:MH:111:GLU:HG2	3:MH:112:LEU:HD12	1.83	0.61
3:MH:378:PHE:HA	3:MH:381:ILE:HG12	1.82	0.61
3:MH:392:LYS:HB2	3:MH:395:LEU:HD13	1.83	0.61
3:NB:305:PRO:HA	3:NB:373:ALA:HB2	1.83	0.61
3:NF:250:LEU:O	3:NF:254:ALA:N	2.26	0.61
3:OB:4:ILE:HD11	3:OB:131:GLN:HB2	1.81	0.61
3:OD:39:ASP:OD1	3:OD:43:GLN:NE2	2.33	0.61
4:OE:216:ASN:HB2	4:OE:276:ILE:HD12	1.83	0.61
4:OI:9:VAL:HG11	4:OI:150:ALA:HB2	1.83	0.61
29:P3:602:ILE:HG23	29:P3:614:TRP:HB2	1.82	0.61
3:PH:250:LEU:O	3:PH:254:ALA:N	2.28	0.61
4:PK:7:ILE:N	4:PK:136:LEU:O	2.30	0.61
30:Q3:1401:GLN:O	30:Q3:1406:LEU:N	2.23	0.61
3:QF:182:PRO:HB2	3:QF:388:MET:HE1	1.81	0.61
4:QI:50:ASN:O	4:QI:64:ARG:NH1	2.34	0.61
3:RB:111:GLU:HG2	3:RB:112:LEU:HD12	1.82	0.61
4:RC:30:ILE:HG13	4:RC:53:PHE:HE2	1.66	0.61
4:RI:91:GLN:HG3	4:RI:121:ARG:HH21	1.66	0.61
4:RK:127:ASP:OD1	4:RK:128:LEU:N	2.34	0.61
3:SH:175:VAL:HG22	3:SH:177:ASP:H	1.66	0.61
4:SK:316:CYS:HB3	4:SK:378:LEU:HB3	1.82	0.61
3:TD:309:ARG:H	3:TD:372:THR:HG1	1.48	0.61
3:TF:84:ILE:O	3:TF:86:ARG:NH1	2.34	0.61
4:UA:388:TRP:HB3	4:UA:425:LEU:HD11	1.83	0.61
4:UC:205:ASP:OD2	4:UC:304:LYS:NZ	2.28	0.61
3:UF:13:GLY:HA2	3:UF:16:ILE:HB	1.82	0.61
3:UJ:309:ARG:H	3:UJ:372:THR:HG1	1.46	0.61
4:UK:53:PHE:O	4:UK:64:ARG:NH1	2.34	0.61
3:UL:131:GLN:HB3	3:UL:163:ILE:HD12	1.81	0.61
4:VA:53:PHE:O	4:VA:64:ARG:NH1	2.33	0.61
4:VA:144:GLY:N	39:VA:501:GTP:O2B	2.33	0.61
4:VC:264:ARG:O	4:VC:266:HIS:ND1	2.33	0.61
39:VF:501:GTP:O3G	39:VF:501:GTP:O3'	2.13	0.61
3:VJ:3:GLU:HG2	3:VJ:130:LEU:HD23	1.83	0.61
3:WB:289:LEU:HD21	3:WB:363:MET:HB3	1.83	0.61
4:WG:9:VAL:HG11	4:WG:150:ALA:HB2	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WI:67:PHE:HB2	4:WI:92:LEU:HD13	1.83	0.61
34:XA:73:LEU:HD22	34:XA:169:ASP:HB3	1.83	0.61
37:YN:161:LYS:HG3	37:YN:162:VAL:HG23	1.82	0.61
4:AE:214:ARG:O	26:N2:89:LYS:NZ	2.24	0.61
4:AM:154:MET:HE3	4:AM:194:THR:HG22	1.82	0.61
3:BD:156:ARG:NH1	3:BD:195:ASN:O	2.33	0.61
4:BK:194:THR:HA	4:BK:197:HIS:CE1	2.35	0.61
6:C:117:ILE:HB	6:C:178:ILE:HB	1.83	0.61
7:C2:152:ASP:O	7:C2:156:TRP:HD1	1.83	0.61
3:CB:324:LYS:HE2	4:CC:222:PRO:HG2	1.83	0.61
4:CE:262:TYR:OH	3:CF:391:ARG:O	2.19	0.61
4:CG:12:ALA:HB1	39:CG:501:GTP:C2	2.36	0.61
3:CH:211:CYS:HA	3:CH:215:LEU:HD12	1.80	0.61
4:CI:161:TYR:O	4:CI:166:LYS:NZ	2.33	0.61
3:CJ:269:GLY:N	3:CJ:367:PHE:O	2.34	0.61
3:CL:269:GLY:HA2	3:CL:300:MET:HE1	1.83	0.61
4:CM:318:LEU:HB2	4:CM:376:CYS:HB3	1.82	0.61
4:DA:49:PHE:O	4:DA:53:PHE:N	2.32	0.61
3:DD:379:LYS:O	3:DD:382:SER:OG	2.15	0.61
3:DH:412:GLU:OE1	3:DH:416:ASN:ND2	2.32	0.61
3:DL:12:CYS:HA	39:DL:501:GTP:HN22	1.66	0.61
4:EC:9:VAL:HG22	4:EC:146:GLY:HA2	1.81	0.61
4:EE:269:LEU:N	4:EE:379:SER:O	2.26	0.61
3:EF:6:HIS:HD2	3:EF:134:GLN:HG2	1.65	0.61
4:EI:54:SER:N	4:EI:62:VAL:O	2.34	0.61
11:F2:371:ALA:HB3	11:F2:441:LEU:HD13	1.83	0.61
11:F6:127:LYS:HZ2	11:F7:426:THR:HA	1.66	0.61
3:FB:48:ASN:O	3:FB:62:ARG:NH2	2.34	0.61
4:FC:20:CYS:O	4:FC:24:TYR:N	2.27	0.61
4:FC:220:GLU:HG2	4:FC:221:ARG:HG2	1.83	0.61
3:FF:139:LEU:N	3:FF:168:SER:OG	2.33	0.61
3:FH:28:HIS:CD2	3:FH:43:GLN:HB2	2.35	0.61
11:Fb:183:GLU:O	11:Fb:187:PRO:HD3	2.00	0.61
14:G4:226:ASP:O	14:G4:228:LYS:NZ	2.32	0.61
4:GA:12:ALA:HB1	39:GA:501:GTP:C2	2.36	0.61
4:GA:351:PHE:HZ	3:GB:175:VAL:HB	1.66	0.61
3:GB:374:ILE:HA	3:GB:377:LEU:HD13	1.81	0.61
4:GC:216:ASN:HD21	4:GC:275:VAL:HG23	1.65	0.61
3:GF:250:LEU:O	3:GF:254:ALA:N	2.28	0.61
4:GG:245:ASP:O	4:GG:356:ASN:ND2	2.34	0.61
4:GG:401:LYS:C	4:GG:402:ARG:HD3	2.26	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:GK:46:ASP:OD1	4:GK:50:ASN:ND2	2.34	0.61
15:H1:212:LEU:HG	15:H1:213:ILE:H	1.65	0.61
3:HJ:302:ALA:HB1	3:HJ:377:LEU:HD11	1.83	0.61
4:HK:316:CYS:N	4:HK:378:LEU:O	2.33	0.61
17:I2:51:ASP:HA	17:I2:54:ASN:HB2	1.82	0.61
4:IA:9:VAL:HG11	4:IA:150:ALA:HB2	1.80	0.61
4:IM:1:MET:O	4:IM:133:GLN:NE2	2.33	0.61
19:J1:60:THR:HG22	19:J1:62:PHE:H	1.66	0.61
4:JA:1:MET:N	4:JA:130:THR:OG1	2.33	0.61
3:JD:324:LYS:NZ	4:JE:222:PRO:O	2.33	0.61
4:JG:32:PRO:O	4:JG:85:GLN:NE2	2.34	0.61
3:JH:246:LEU:HB2	3:JH:352:ALA:HB1	1.83	0.61
3:JJ:251:ARG:NH2	4:JK:98:ASP:OD1	2.33	0.61
3:JL:114:ASP:OD1	3:JL:115:SER:N	2.34	0.61
21:K3:474:TYR:C	21:K3:478:GLN:HE22	2.08	0.61
3:KD:83:GLN:O	3:KD:86:ARG:NH2	2.34	0.61
3:KD:372:THR:HB	3:KD:375:GLN:HE22	1.66	0.61
4:KE:88:HIS:HB3	4:KE:91:GLN:HB2	1.82	0.61
4:KI:49:PHE:O	4:KI:53:PHE:N	2.34	0.61
4:KK:207:GLU:HB2	4:KK:304:LYS:HZ1	1.65	0.61
3:KL:114:ASP:OD1	3:KL:115:SER:N	2.34	0.61
22:L1:163:GLU:HA	22:L1:166:LYS:HB3	1.82	0.61
3:LJ:378:PHE:HA	3:LJ:381:ILE:HG12	1.83	0.61
3:MH:11:GLN:HE21	39:MH:501:GTP:H3'	1.66	0.61
3:MH:33:THR:O	3:MH:58:LYS:NZ	2.34	0.61
4:MI:127:ASP:OD1	4:MI:128:LEU:N	2.34	0.61
4:NK:236:SER:O	4:NK:243:ARG:NH2	2.33	0.61
4:OC:245:ASP:O	4:OC:356:ASN:ND2	2.33	0.61
4:OE:216:ASN:ND2	4:OE:275:VAL:O	2.34	0.61
3:OF:33:THR:O	3:OF:58:LYS:NZ	2.31	0.61
3:OH:419:VAL:HG12	3:OH:423:GLN:HE22	1.66	0.61
4:OI:172:TYR:N	4:OI:204:VAL:O	2.28	0.61
29:P1:189:LEU:HG	29:P1:190:PRO:HD3	1.83	0.61
4:PA:264:ARG:O	4:PA:266:HIS:ND1	2.34	0.61
4:PC:264:ARG:O	4:PC:266:HIS:ND1	2.34	0.61
4:PE:1:MET:SD	4:PE:2:ARG:N	2.74	0.61
3:PJ:289:LEU:O	3:PJ:293:MET:N	2.31	0.61
4:PM:396:ASP:OD1	4:PM:397:LEU:N	2.34	0.61
3:QB:77:ARG:O	3:QB:77:ARG:NH1	2.33	0.61
39:QL:502:GTP:C2	4:QM:12:ALA:HB1	2.36	0.61
3:RB:83:GLN:O	3:RB:86:ARG:NH2	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:RC:205:ASP:OD2	4:RC:304:LYS:NZ	2.28	0.61
3:RD:135:LEU:HG	3:RD:137:HIS:HD2	1.65	0.61
3:RH:8:GLN:NE2	3:RH:13:GLY:O	2.34	0.61
39:SF:501:GTP:O3G	39:SF:501:GTP:O3'	2.17	0.61
3:SH:379:LYS:O	3:SH:382:SER:OG	2.14	0.61
4:SI:52:PHE:HZ	4:SI:239:THR:HB	1.66	0.61
3:SL:271:ALA:HB1	3:SL:272:PRO:HD2	1.83	0.61
3:TB:309:ARG:N	3:TB:372:THR:OG1	2.26	0.61
4:TC:203:MET:HB2	4:TC:267:PHE:HE1	1.66	0.61
3:TD:246:LEU:HB2	3:TD:352:ALA:HB1	1.81	0.61
3:TF:170:VAL:N	3:TF:202:ILE:O	2.32	0.61
3:TJ:170:VAL:N	3:TJ:202:ILE:O	2.32	0.61
3:TN:398:TYR:HB3	3:TN:403:MET:HB2	1.83	0.61
4:UE:34:GLY:HA2	4:UE:86:LEU:HD21	1.83	0.61
4:UG:115:VAL:HG21	4:UG:156:ARG:HE	1.66	0.61
4:UI:144:GLY:N	39:UI:501:GTP:O2B	2.34	0.61
3:VH:33:THR:O	3:VH:58:LYS:NZ	2.34	0.61
3:WB:273:LEU:H	3:WB:292:GLN:HE22	1.49	0.61
3:WD:317:PHE:O	3:WD:354:CYS:N	2.30	0.61
4:WE:316:CYS:N	4:WE:378:LEU:O	2.34	0.61
4:WE:371:VAL:HG11	4:WE:374:ALA:HB2	1.82	0.61
3:WH:280:GLN:OE1	3:WH:280:GLN:N	2.32	0.61
37:YE:5:LYS:HZ1	37:YE:152:ILE:HD11	1.66	0.61
37:YR:41:ARG:NH1	37:YR:48:GLN:OE1	2.33	0.61
2:A1:235:SER:O	2:A1:239:LYS:HG3	2.01	0.60
4:AC:192:HIS:HA	4:AC:195:LEU:HD23	1.83	0.60
3:AD:323:MET:SD	3:AD:324:LYS:NZ	2.67	0.60
4:AE:53:PHE:O	4:AE:64:ARG:NH1	2.34	0.60
3:AF:133:PHE:HD2	3:AF:164:MET:HE1	1.65	0.60
3:AF:323:MET:N	3:AF:323:MET:SD	2.74	0.60
5:B3:12:TYR:HE2	5:B3:17:TRP:HB2	1.65	0.60
4:BC:244:PHE:HB2	4:BC:356:ASN:HD21	1.65	0.60
3:BH:282:ARG:NH2	3:BH:292:GLN:OE1	2.23	0.60
3:BH:361:LEU:HD11	3:BH:364:SER:HB3	1.82	0.60
4:BK:262:TYR:OH	3:BL:391:ARG:O	2.19	0.60
3:BL:235:GLY:O	3:BL:238:THR:OG1	2.18	0.60
3:BL:286:VAL:HG21	3:BL:325:GLU:HG3	1.83	0.60
7:C7:403:ARG:O	7:C7:406:ARG:NE	2.24	0.60
7:C8:404:THR:OG1	7:C8:405:ARG:NH1	2.34	0.60
3:CF:52:ASN:HB2	3:CF:62:ARG:HD3	1.82	0.60
4:CG:214:ARG:NH1	4:CG:215:ARG:HG3	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CL:252:LYS:O	3:CL:256:ASN:ND2	2.34	0.60
7:Ca:360:LYS:O	7:Ca:364:HIS:ND1	2.34	0.60
3:DD:235:GLY:O	3:DD:238:THR:OG1	2.15	0.60
3:DJ:384:GLN:O	3:DJ:388:MET:HG2	2.00	0.60
9:E:583:PHE:O	9:E:587:GLN:N	2.25	0.60
3:ED:143:THR:HG22	3:ED:147:MET:HE2	1.82	0.60
4:EE:1:MET:SD	4:EE:2:ARG:N	2.74	0.60
4:EI:12:ALA:HB1	39:EI:501:GTP:C2	2.35	0.60
4:EI:127:ASP:OD1	4:EI:128:LEU:N	2.33	0.60
4:EK:5:ILE:HD13	4:EK:64:ARG:HB3	1.83	0.60
4:EK:7:ILE:N	4:EK:136:LEU:O	2.32	0.60
3:EL:317:PHE:O	3:EL:354:CYS:N	2.26	0.60
3:EL:412:GLU:OE1	3:EL:416:ASN:ND2	2.32	0.60
11:F1:315:ILE:HG23	11:F1:318:ARG:HH21	1.65	0.60
11:F7:144:GLN:HE21	11:Fc:140:ARG:HH11	1.49	0.60
3:FF:19:LYS:NZ	3:FF:223:GLY:O	2.34	0.60
3:FL:406:MET:O	3:FL:409:THR:OG1	2.17	0.60
13:G2:316:SER:OG	13:G2:318:GLN:OE1	2.18	0.60
14:G5:653:LEU:HD12	14:G5:654:PRO:HD2	1.82	0.60
14:G6:488:LYS:NZ	14:G6:501:TYR:O	2.34	0.60
4:GE:52:PHE:HZ	4:GE:239:THR:HB	1.66	0.60
3:GF:322:SER:N	3:GF:325:GLU:OE2	2.33	0.60
3:GH:114:ASP:OD1	3:GH:115:SER:N	2.34	0.60
4:GI:70:LEU:HD13	4:GI:95:GLY:HA3	1.83	0.60
4:GI:336:LYS:NZ	3:GJ:175:VAL:HB	2.16	0.60
4:HA:229:ARG:NH2	4:HA:367:ASP:H	1.99	0.60
3:HB:5:VAL:HG23	3:HB:130:LEU:HD21	1.82	0.60
3:HB:324:LYS:NZ	4:HC:222:PRO:O	2.28	0.60
4:HC:220:GLU:O	4:HC:221:ARG:NE	2.34	0.60
4:HE:89:PRO:HD2	4:IE:280:LYS:NZ	2.16	0.60
4:HG:144:GLY:N	39:HG:501:GTP:O2B	2.34	0.60
3:HH:118:ASP:OD1	3:HH:121:ARG:NH1	2.34	0.60
4:HK:49:PHE:O	4:HK:53:PHE:N	2.33	0.60
3:ID:5:VAL:HG23	3:ID:130:LEU:HD11	1.81	0.60
3:ID:187:LEU:HD21	3:ID:408:PHE:HE1	1.66	0.60
4:IE:141:PHE:HB2	4:IE:173:PRO:HD3	1.83	0.60
3:IF:286:VAL:HG21	3:IF:325:GLU:HG3	1.83	0.60
3:IF:322:SER:N	3:IF:325:GLU:OE2	2.34	0.60
4:JA:171:ILE:HD12	4:JA:204:VAL:HG13	1.82	0.60
3:JF:292:GLN:O	3:JF:298:ASN:ND2	2.34	0.60
3:JH:257:MET:O	3:JH:259:PRO:HD3	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:K4:109:LEU:HD23	21:K4:110:PRO:HD3	1.84	0.60
21:K4:336:LEU:HD23	21:K4:461:VAL:HB	1.83	0.60
4:KA:396:ASP:OD1	4:KA:397:LEU:N	2.34	0.60
3:KB:246:LEU:HB2	3:KB:352:ALA:HB1	1.82	0.60
4:KC:30:ILE:HA	4:KC:36:MET:HE1	1.83	0.60
3:KF:24:ILE:O	3:KF:28:HIS:ND1	2.19	0.60
3:KF:207:LEU:HB3	3:KF:225:LEU:HD22	1.81	0.60
4:KG:46:ASP:OD1	4:KG:50:ASN:ND2	2.34	0.60
22:L3:81:CYS:SG	22:L3:82:SER:N	2.73	0.60
4:LC:5:ILE:O	4:LC:136:LEU:N	2.34	0.60
3:LF:48:ASN:O	3:LF:62:ARG:NH2	2.30	0.60
4:LG:144:GLY:N	39:LG:501:GTP:O2B	2.30	0.60
3:LJ:117:LEU:HD11	3:LJ:154:LYS:HD2	1.83	0.60
3:MF:60:VAL:HG23	3:MF:86:ARG:HH11	1.66	0.60
4:MG:316:CYS:HB3	4:MG:378:LEU:HB3	1.81	0.60
3:MH:213:ARG:NH1	3:MH:297:LYS:O	2.34	0.60
3:MH:289:LEU:O	3:MH:293:MET:N	2.26	0.60
4:NA:213:CYS:O	4:NA:219:ILE:N	2.19	0.60
3:NF:346:PRO:HD2	4:NG:398:MET:HE1	1.82	0.60
4:OG:98:ASP:OD1	4:OG:99:ALA:N	2.34	0.60
4:OG:188:ILE:HG12	4:OG:421:ALA:HB1	1.83	0.60
3:OJ:324:LYS:NZ	4:OK:222:PRO:O	2.21	0.60
29:P1:18:ALA:HB3	29:P1:613:ARG:HB3	1.82	0.60
29:P1:74:LYS:HE3	29:P1:121:PRO:HA	1.82	0.60
29:P1:131:GLY:O	29:P1:135:GLY:N	2.33	0.60
4:PA:208:ALA:H	4:PA:304:LYS:NZ	1.99	0.60
3:QF:132:GLY:HA2	3:QF:162:ARG:HB3	1.83	0.60
3:QH:33:THR:O	3:QH:58:LYS:NZ	2.33	0.60
3:QJ:84:ILE:O	3:QJ:86:ARG:NH1	2.33	0.60
4:QM:172:TYR:N	4:QM:204:VAL:O	2.30	0.60
4:RC:156:ARG:HA	4:RC:159:VAL:HG22	1.82	0.60
4:RE:206:ASN:HA	4:RE:209:ILE:HD12	1.81	0.60
3:SB:12:CYS:HB3	39:SB:501:GTP:O4'	2.01	0.60
3:SB:322:SER:N	3:SB:325:GLU:OE2	2.33	0.60
4:SE:171:ILE:HD12	4:SE:204:VAL:HG13	1.80	0.60
3:SH:170:VAL:N	3:SH:202:ILE:O	2.32	0.60
3:SJ:107:THR:OG1	3:SJ:401:GLU:OE2	2.18	0.60
3:SJ:362:LYS:HZ2	3:SJ:363:MET:HE2	1.65	0.60
3:SL:12:CYS:HA	39:SL:501:GTP:N2	2.16	0.60
3:TH:305:PRO:HA	3:TH:373:ALA:HB2	1.82	0.60
3:UF:269:GLY:HA2	3:UF:300:MET:HE1	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UI:236:SER:O	4:UI:243:ARG:NH2	2.34	0.60
3:UJ:302:ALA:HB1	3:UJ:377:LEU:HD11	1.82	0.60
4:VC:49:PHE:O	4:VC:53:PHE:N	2.33	0.60
4:VG:388:TRP:HB3	4:VG:425:LEU:HD11	1.83	0.60
4:VK:423:GLU:HA	4:VK:426:ALA:HB3	1.83	0.60
3:VL:289:LEU:O	3:VL:293:MET:N	2.30	0.60
3:WB:84:ILE:O	3:WB:86:ARG:NH1	2.33	0.60
3:WB:139:LEU:HD21	3:WB:170:VAL:HG22	1.82	0.60
3:WF:33:THR:O	3:WF:58:LYS:NZ	2.33	0.60
3:WF:111:GLU:HG2	3:WF:112:LEU:HD12	1.82	0.60
4:WI:206:ASN:HA	4:WI:209:ILE:HD12	1.82	0.60
3:WJ:194:GLU:OE1	3:WJ:195:ASN:ND2	2.34	0.60
3:WL:94:GLN:HA	35:XM:74:LYS:H	1.65	0.60
34:XA:58:TYR:HB2	34:XA:155:GLN:HE21	1.66	0.60
35:XM:178:LEU:HD21	35:XM:228:ILE:HG12	1.82	0.60
37:YM:12:GLU:HB3	37:YM:145:LEU:HD11	1.82	0.60
37:YN:4:VAL:HG13	37:YN:79:LEU:HG	1.83	0.60
37:YP:61:THR:HG22	37:YP:64:ARG:HH21	1.66	0.60
37:YQ:87:HIS:HA	37:YQ:166:GLY:HA3	1.82	0.60
37:YV:8:LEU:HA	37:YV:11:ILE:HD12	1.83	0.60
2:A1:311:LYS:HZ1	2:A2:199:ASN:N	2.00	0.60
3:AB:211:CYS:HA	3:AB:215:LEU:HB2	1.83	0.60
3:AH:304:ASP:O	3:AH:307:HIS:ND1	2.34	0.60
4:AM:416:GLY:HA3	34:XG:108:TYR:CZ	2.36	0.60
5:B7:318:LEU:O	5:B7:322:THR:HG23	2.00	0.60
3:BB:197:ASP:OD1	3:BB:198:GLU:N	2.34	0.60
3:BH:299:MET:SD	3:BH:301:ALA:N	2.68	0.60
3:BH:317:PHE:HB3	3:BH:321:MET:HE3	1.83	0.60
4:BI:208:ALA:H	4:BI:304:LYS:HZ1	1.48	0.60
3:BJ:56:GLY:O	3:BJ:58:LYS:NZ	2.34	0.60
4:BK:321:GLY:N	4:BK:356:ASN:O	2.27	0.60
3:BL:111:GLU:HG2	3:BL:112:LEU:HD22	1.83	0.60
3:BL:406:MET:O	3:BL:409:THR:OG1	2.16	0.60
7:C1:121:ARG:HH11	7:C2:375:ILE:HA	1.67	0.60
7:C2:260:ASP:OD1	7:C2:261:LYS:N	2.34	0.60
7:C8:93:ARG:N	8:D4:245:SER:OG	2.34	0.60
4:CG:87:PHE:HB3	4:CG:92:LEU:HD21	1.83	0.60
4:CG:196:GLU:OE1	4:CG:196:GLU:N	2.32	0.60
4:CI:175:PRO:HB2	4:CI:390:ARG:HH11	1.66	0.60
4:CK:168:GLU:HB2	4:CK:201:ALA:HA	1.84	0.60
8:D3:75:GLU:O	8:D3:78:ARG:HG2	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:D7:332:GLN:O	8:D7:336:ILE:HG13	2.01	0.60
3:EB:84:ILE:O	3:EB:86:ARG:NH1	2.33	0.60
4:EG:98:ASP:O	4:EG:105:ARG:NH2	2.27	0.60
3:EH:19:LYS:NZ	3:EH:223:GLY:O	2.33	0.60
11:F5:227:ASP:OD1	11:F5:228:GLN:N	2.34	0.60
3:FB:162:ARG:HA	3:FB:251:ARG:HH22	1.66	0.60
4:FG:244:PHE:HB2	4:FG:356:ASN:HD21	1.66	0.60
3:FJ:372:THR:HB	3:FJ:375:GLN:HE22	1.65	0.60
4:FK:324:VAL:HG11	3:FL:219:THR:HB	1.81	0.60
11:Fj:148:ASP:HB3	11:Fj:296:TRP:HZ3	1.66	0.60
13:G2:266:TYR:OH	13:G2:271:ASP:OD1	2.20	0.60
13:G2:477:SER:OG	13:G2:483:ILE:N	2.34	0.60
13:G3:179:LYS:NZ	13:G3:180:THR:O	2.34	0.60
4:GA:24:TYR:O	4:GA:28:HIS:ND1	2.29	0.60
4:GG:127:ASP:OD1	4:GG:128:LEU:N	2.34	0.60
3:GJ:132:GLY:HA2	3:GJ:162:ARG:HB3	1.82	0.60
3:GL:133:PHE:HD2	3:GL:164:MET:HE1	1.66	0.60
4:HC:101:ASN:HA	4:HC:144:GLY:HA2	1.83	0.60
3:HH:4:ILE:HD11	3:HH:131:GLN:HB2	1.84	0.60
3:HJ:268:PRO:HD2	3:HJ:301:ALA:HB2	1.81	0.60
17:I2:72:ILE:HG13	17:I2:74:SER:H	1.65	0.60
3:IB:10:GLY:H	3:IB:147:MET:HE3	1.65	0.60
3:IB:385:PHE:HZ	3:IB:408:PHE:HB3	1.66	0.60
3:IH:48:ASN:O	3:IH:62:ARG:NH2	2.29	0.60
4:IM:388:TRP:HB3	4:IM:425:LEU:HD11	1.83	0.60
4:JA:154:MET:HE1	4:JA:197:HIS:HB2	1.84	0.60
4:JE:76:ASP:OD1	4:JE:79:ARG:NH1	2.34	0.60
4:JG:108:TYR:O	4:JG:112:LYS:NZ	2.26	0.60
3:JH:262:ARG:NH2	3:JH:425:TYR:OH	2.34	0.60
21:K2:434:LYS:HA	21:K2:437:ARG:HH21	1.64	0.60
21:K2:466:ARG:HD2	3:KD:402:GLY:HA2	1.83	0.60
4:KA:316:CYS:N	4:KA:378:LEU:O	2.25	0.60
4:KC:144:GLY:N	39:KC:501:GTP:O2B	2.34	0.60
3:KF:392:LYS:HB2	3:KF:395:LEU:HD13	1.82	0.60
4:KI:207:GLU:HB2	4:KI:304:LYS:HZ1	1.65	0.60
3:KJ:111:GLU:HG2	3:KJ:112:LEU:HD12	1.83	0.60
4:LA:329:ASN:HA	4:LA:332:ILE:HG12	1.81	0.60
3:LB:273:LEU:H	3:LB:292:GLN:HE22	1.49	0.60
3:LF:324:LYS:NZ	4:LG:222:PRO:O	2.25	0.60
4:LG:9:VAL:HA	4:LG:68:VAL:HG23	1.82	0.60
3:MB:385:PHE:HZ	3:MB:408:PHE:HB3	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MD:245:GLN:HE22	4:ME:15:GLN:NE2	1.99	0.60
3:MF:28:HIS:HD2	3:MF:43:GLN:HB2	1.66	0.60
4:NG:98:ASP:O	4:NG:105:ARG:NH2	2.30	0.60
4:OA:34:GLY:HA2	4:OA:86:LEU:HD21	1.83	0.60
3:OD:258:VAL:HB	4:OE:407:TRP:HZ2	1.66	0.60
3:OJ:309:ARG:NH1	3:OJ:343:GLU:OE1	2.33	0.60
4:OK:388:TRP:HB3	4:OK:425:LEU:HD11	1.82	0.60
27:P:152:ARG:HB3	27:P:156:LYS:NZ	2.16	0.60
29:P2:232:MET:HG3	29:P2:239:LEU:HA	1.81	0.60
4:PE:388:TRP:HB3	4:PE:425:LEU:HD11	1.82	0.60
30:Q1:1372:LEU:HB3	30:Q1:1374:ILE:HG12	1.83	0.60
3:QD:286:VAL:HG21	3:QD:325:GLU:HG3	1.83	0.60
4:QI:70:LEU:HA	4:QI:95:GLY:HA3	1.84	0.60
4:QI:144:GLY:N	39:QI:501:GTP:O2B	2.32	0.60
3:QL:132:GLY:HA2	3:QL:162:ARG:HB3	1.83	0.60
3:QL:372:THR:HB	3:QL:375:GLN:HE22	1.66	0.60
3:RB:182:PRO:HB2	3:RB:388:MET:HE1	1.82	0.60
4:RC:216:ASN:HB2	4:RC:276:ILE:HD12	1.83	0.60
4:RG:9:VAL:HG11	4:RG:150:ALA:HB2	1.84	0.60
3:RH:111:GLU:HG2	3:RH:112:LEU:HD12	1.82	0.60
4:RI:9:VAL:HG11	4:RI:150:ALA:HB2	1.82	0.60
4:SI:207:GLU:HB2	4:SI:304:LYS:HZ1	1.66	0.60
4:SI:306:ASP:OD2	4:SI:309:HIS:ND1	2.34	0.60
3:SL:392:LYS:HB2	3:SL:395:LEU:HD13	1.81	0.60
4:TE:207:GLU:HB2	4:TE:304:LYS:HZ1	1.66	0.60
3:UB:111:GLU:HG2	3:UB:112:LEU:HD12	1.82	0.60
3:UD:266:PHE:HB3	3:UD:368:ILE:HD11	1.82	0.60
4:UG:21:TRP:HA	4:UG:24:TYR:HB2	1.82	0.60
4:UG:273:ALA:HB2	4:UG:295:CYS:HB3	1.83	0.60
3:WF:317:PHE:O	3:WF:354:CYS:N	2.28	0.60
4:WI:32:PRO:O	4:WI:85:GLN:NE2	2.34	0.60
35:XJ:188:ASN:HD21	35:XJ:206:GLY:H	1.48	0.60
35:XL:108:GLU:HB2	35:XL:112:ARG:HH12	1.65	0.60
37:YF:154:HIS:HD2	37:YF:157:LYS:HB2	1.66	0.60
4:AC:127:ASP:OD1	4:AC:128:LEU:N	2.34	0.60
3:AD:309:ARG:H	3:AD:372:THR:HG1	1.47	0.60
4:AE:32:PRO:O	4:AE:85:GLN:NE2	2.34	0.60
3:AH:111:GLU:HG2	3:AH:112:LEU:HD12	1.83	0.60
4:AK:89:PRO:HD2	4:BK:280:LYS:HZ3	1.64	0.60
5:B3:312:LYS:NZ	5:B4:199:ILE:HG13	2.16	0.60
5:B6:85:LEU:O	5:B6:89:ILE:HG12	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B7:85:LEU:O	5:B7:89:ILE:HG12	2.02	0.60
4:BC:5:ILE:HD13	4:BC:64:ARG:HB3	1.82	0.60
4:BC:12:ALA:HB1	39:BC:501:GTP:C2	2.37	0.60
3:BF:11:GLN:HE21	39:BF:501:GTP:H3'	1.66	0.60
4:BG:32:PRO:O	4:BG:85:GLN:NE2	2.33	0.60
4:BI:172:TYR:N	4:BI:204:VAL:O	2.30	0.60
4:BM:53:PHE:O	4:BM:64:ARG:NH1	2.35	0.60
7:C1:123:ASP:O	7:C1:127:LEU:HG	2.01	0.60
7:C9:385:ALA:O	7:C9:389:LYS:HG2	2.01	0.60
3:CB:11:GLN:HE21	39:CB:501:GTP:H3'	1.64	0.60
3:CF:392:LYS:HB2	3:CF:395:LEU:HD13	1.83	0.60
8:D9:380:GLU:HG2	8:Da:95:THR:HB	1.82	0.60
3:DB:235:GLY:HA3	3:DB:366:THR:HG21	1.83	0.60
4:DG:9:VAL:HG11	4:DG:150:ALA:HB2	1.82	0.60
4:DK:396:ASP:OD1	4:DK:397:LEU:N	2.35	0.60
10:E3:9:THR:OG1	10:E3:145:ARG:NH1	2.34	0.60
11:F1:411:VAL:HB	11:F2:145:ARG:HH22	1.66	0.60
11:F3:105:ASN:OD1	11:F3:106:ALA:N	2.34	0.60
11:F3:112:TRP:NE1	11:F3:115:ARG:HH21	1.99	0.60
4:FC:49:PHE:O	4:FC:53:PHE:N	2.32	0.60
4:FK:245:ASP:O	4:FK:356:ASN:ND2	2.34	0.60
11:Fg:345:ALA:O	11:Fg:348:SER:OG	2.15	0.60
11:Fg:372:GLU:HA	11:Fg:375:ILE:HD12	1.83	0.60
11:Fi:302:ASP:O	11:Fi:306:HIS:ND1	2.34	0.60
12:G:149:VAL:HG23	3:GL:32:PRO:HD2	1.83	0.60
13:G3:474:LYS:HB3	13:G3:485:TYR:H	1.64	0.60
14:G4:420:LYS:HE2	14:G4:424:LEU:HD22	1.83	0.60
14:G6:232:PHE:HB3	14:G6:251:LEU:HD21	1.83	0.60
4:GE:285:GLN:HE22	4:GE:287:SER:HB3	1.66	0.60
3:GF:13:GLY:HA2	3:GF:16:ILE:HB	1.82	0.60
4:GG:271:THR:HA	4:GG:302:MET:HE1	1.82	0.60
3:GH:72:THR:O	3:GH:75:SER:OG	2.18	0.60
3:GH:83:GLN:O	3:GH:86:ARG:NH2	2.34	0.60
3:GJ:3:GLU:HG2	3:GJ:130:LEU:HD23	1.83	0.60
3:GJ:372:THR:HB	3:GJ:375:GLN:HE22	1.66	0.60
3:HF:149:THR:HG21	3:HF:191:GLN:HE21	1.65	0.60
4:HK:79:ARG:NH2	4:HK:89:PRO:O	2.27	0.60
3:HL:392:LYS:HB2	3:HL:395:LEU:HD13	1.81	0.60
4:IA:70:LEU:HD12	4:IA:95:GLY:HA3	1.83	0.60
3:IB:48:ASN:O	3:IB:62:ARG:NH2	2.33	0.60
3:ID:347:ASN:HB3	4:IE:178:SER:HB3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:II:391:LEU:O	4:II:394:LYS:HG2	2.01	0.60
4:IK:52:PHE:HZ	4:IK:239:THR:HB	1.65	0.60
3:IL:390:ARG:HG3	3:IL:391:ARG:HG3	1.81	0.60
3:JB:193:VAL:O	3:JB:262:ARG:NH2	2.33	0.60
4:JC:396:ASP:OD1	4:JC:397:LEU:N	2.34	0.60
4:JG:216:ASN:HB2	4:JG:276:ILE:HD12	1.83	0.60
4:JI:172:TYR:N	4:JI:204:VAL:O	2.32	0.60
3:JJ:101:TRP:HB2	3:JJ:184:ASN:HD22	1.66	0.60
21:K3:392:LYS:O	21:K3:393:LEU:C	2.44	0.60
3:KB:309:ARG:HH22	3:KB:344:TRP:HZ3	1.49	0.60
3:KB:316:VAL:HG22	3:KB:352:ALA:HB3	1.83	0.60
3:KD:212:PHE:HA	38:a:29:PHE:CE2	2.36	0.60
4:KG:317:MET:HE1	4:KG:351:PHE:HB2	1.83	0.60
4:KI:398:MET:O	4:KI:402:ARG:N	2.34	0.60
20:L:22:GLU:O	20:L:26:MET:N	2.24	0.60
22:L1:210:GLU:O	22:L1:227:LYS:NZ	2.35	0.60
4:LA:46:ASP:OD1	4:LA:50:ASN:ND2	2.33	0.60
3:LB:52:ASN:OD1	3:LB:62:ARG:NH1	2.35	0.60
3:LB:292:GLN:O	3:LB:298:ASN:ND2	2.32	0.60
4:LC:396:ASP:OD1	4:LC:397:LEU:N	2.34	0.60
3:LD:372:THR:HG21	3:LD:426:GLN:HG3	1.82	0.60
3:LF:120:VAL:O	3:LF:124:ALA:N	2.32	0.60
3:LJ:423:GLN:HE21	3:LJ:427:ASP:HB2	1.66	0.60
24:M1:95:ARG:NH1	24:M1:96:LEU:O	2.34	0.60
3:MB:70:PRO:HA	3:MB:73:MET:HE3	1.82	0.60
3:MB:194:GLU:OE1	3:MB:195:ASN:ND2	2.34	0.60
3:MD:311:LEU:O	3:MD:348:ASN:ND2	2.34	0.60
3:MF:117:LEU:HD11	3:MF:154:LYS:HD2	1.81	0.60
3:MF:268:PRO:HD2	3:MF:301:ALA:HB2	1.83	0.60
3:MH:206:ALA:O	3:MH:210:ILE:N	2.33	0.60
4:NA:30:ILE:HA	4:NA:36:MET:HE1	1.83	0.60
4:NI:396:ASP:OD1	4:NI:397:LEU:N	2.34	0.60
4:OG:144:GLY:N	39:OG:501:GTP:O2B	2.33	0.60
3:OL:37:HIS:HA	37:YW:64:ARG:HH22	1.66	0.60
4:PA:53:PHE:O	4:PA:64:ARG:NH1	2.33	0.60
4:PA:67:PHE:HB2	4:PA:92:LEU:HD13	1.83	0.60
4:PC:188:ILE:HG22	4:PC:421:ALA:HB1	1.83	0.60
4:PI:67:PHE:HB2	4:PI:92:LEU:HD13	1.83	0.60
4:PI:203:MET:N	4:PI:203:MET:SD	2.74	0.60
3:QF:77:ARG:O	3:QF:77:ARG:NH1	2.32	0.60
4:QG:388:TRP:HB3	4:QG:425:LEU:HD11	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RB:215:LEU:HD11	3:RB:228:LEU:HD11	1.83	0.60
4:RI:329:ASN:HA	4:RI:332:ILE:HG12	1.84	0.60
3:RJ:3:GLU:HG2	3:RJ:130:LEU:HD23	1.84	0.60
3:SF:247:ASN:HB3	3:SF:252:LYS:HG3	1.83	0.60
4:SI:220:GLU:O	4:SI:221:ARG:NE	2.33	0.60
4:SI:271:THR:HB	4:SI:377:MET:HB3	1.82	0.60
4:SM:16:ILE:HD11	4:SM:138:PHE:HB3	1.84	0.60
3:TB:317:PHE:O	3:TB:354:CYS:N	2.24	0.60
3:TD:131:GLN:O	3:TD:251:ARG:NH2	2.34	0.60
4:TE:103:TYR:HB2	4:TE:186:ASN:HB2	1.83	0.60
3:TF:103:LYS:O	3:TF:108:GLU:N	2.27	0.60
4:TI:154:MET:HE1	4:TI:197:HIS:HB2	1.83	0.60
3:UB:211:CYS:HA	3:UB:215:LEU:HD13	1.82	0.60
3:UB:269:GLY:HA2	3:UB:300:MET:HE1	1.84	0.60
4:UC:5:ILE:HD13	4:UC:64:ARG:HB3	1.82	0.60
3:UD:233:MET:HE3	3:UD:233:MET:HA	1.83	0.60
3:UF:317:PHE:O	3:UF:354:CYS:N	2.28	0.60
4:UG:30:ILE:HA	4:UG:36:MET:HE1	1.83	0.60
4:VE:5:ILE:HD13	4:VE:64:ARG:HB3	1.83	0.60
4:VI:144:GLY:N	39:VI:501:GTP:O2B	2.35	0.60
3:VJ:111:GLU:HG2	3:VJ:112:LEU:HD12	1.82	0.60
3:VJ:317:PHE:HB3	3:VJ:321:MET:HE3	1.83	0.60
4:VK:6:SER:HA	4:VK:136:LEU:HB2	1.82	0.60
4:VK:49:PHE:O	4:VK:53:PHE:N	2.33	0.60
3:VL:141:GLY:HA3	39:VL:501:GTP:H5”	1.83	0.60
4:WC:192:HIS:HA	4:WC:195:LEU:HD23	1.83	0.60
4:WE:10:GLY:O	4:WE:13:GLY:N	2.34	0.60
3:WF:250:LEU:O	3:WF:254:ALA:N	2.28	0.60
3:WH:16:ILE:HD13	3:WH:226:ASN:HD22	1.66	0.60
34:XC:3:LYS:HZ1	35:XJ:62:ARG:HA	1.66	0.60
34:XF:94:LEU:HD11	34:XF:98:ASN:HA	1.82	0.60
37:YB:31:HIS:O	37:YB:35:ASN:ND2	2.33	0.60
37:YD:93:THR:HB	37:YD:151:TRP:CD1	2.36	0.60
37:YF:161:LYS:HG3	37:YF:162:VAL:HG23	1.83	0.60
37:YN:61:THR:HG22	37:YN:64:ARG:HH21	1.65	0.60
2:A4:97:ARG:HE	2:A4:246:LEU:HD13	1.66	0.60
4:AC:388:TRP:HB3	4:AC:425:LEU:HD11	1.82	0.60
3:AD:46:ARG:HH12	4:AE:73:THR:HG23	1.66	0.60
4:AG:53:PHE:O	4:AG:64:ARG:NH1	2.33	0.60
3:AH:16:ILE:HD13	3:AH:226:ASN:ND2	2.17	0.60
4:AI:388:TRP:HB3	4:AI:425:LEU:HD11	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B3:281:TRP:CD1	5:B3:285:ASN:HD21	2.18	0.60
5:B5:46:ARG:NH2	5:B6:296:ASP:O	2.35	0.60
4:BE:5:ILE:HD13	4:BE:64:ARG:HB3	1.84	0.60
3:BH:28:HIS:HD2	3:BH:47:ILE:HD13	1.65	0.60
3:BH:48:ASN:O	3:BH:62:ARG:NH2	2.29	0.60
3:BJ:299:MET:SD	3:BJ:301:ALA:N	2.74	0.60
3:CH:347:ASN:HB3	4:CI:178:SER:HB3	1.84	0.60
4:CI:9:VAL:HG11	4:CI:150:ALA:HB2	1.83	0.60
3:CJ:16:ILE:HD13	3:CJ:226:ASN:ND2	2.16	0.60
4:CK:203:MET:N	4:CK:203:MET:SD	2.74	0.60
7:Cd:251:GLN:HA	7:Cd:254:LEU:HD12	1.82	0.60
8:D4:322:LEU:HD13	8:D4:412:LEU:HD22	1.83	0.60
8:D7:197:ALA:O	8:D7:201:ILE:HG12	2.01	0.60
8:D9:182:LEU:O	8:D9:186:ILE:HG12	2.02	0.60
3:DB:207:LEU:HB3	3:DB:225:LEU:HD22	1.84	0.60
3:DB:379:LYS:O	3:DB:382:SER:OG	2.16	0.60
3:DF:204:ASN:O	3:DF:208:TYR:N	2.32	0.60
4:EG:216:ASN:HB2	4:EG:276:ILE:HD12	1.82	0.60
4:EI:338:LYS:HZ2	4:EI:340:THR:H	1.48	0.60
3:EJ:12:CYS:HA	39:EJ:501:GTP:HN22	1.65	0.60
3:EL:130:LEU:HB2	3:EL:162:ARG:HH11	1.66	0.60
11:F9:396:LEU:HD12	11:F9:416:LEU:HG	1.82	0.60
4:FA:204:VAL:HG23	4:FA:302:MET:HG3	1.82	0.60
3:FB:101:TRP:HB2	3:FB:184:ASN:HD22	1.65	0.60
4:FC:396:ASP:OD1	4:FC:397:LEU:N	2.35	0.60
3:FF:289:LEU:HA	3:FF:292:GLN:HG3	1.83	0.60
3:FH:130:LEU:HB3	3:FH:162:ARG:NH1	2.16	0.60
3:FJ:170:VAL:N	3:FJ:202:ILE:O	2.29	0.60
11:Ff:106:ALA:O	11:Ff:110:ARG:HG2	2.02	0.60
11:Fk:159:GLU:HA	11:Fk:162:ARG:HH21	1.66	0.60
14:G4:633:GLU:HB3	14:G4:699:TRP:HZ2	1.65	0.60
4:GC:419:SER:HA	4:GC:422:ARG:HE	1.66	0.60
3:GD:239:CYS:SG	3:GD:248:ALA:HA	2.41	0.60
4:GE:363:VAL:HG13	4:GE:366:GLY:HA3	1.84	0.60
4:GI:216:ASN:ND2	4:GI:275:VAL:O	2.34	0.60
3:GJ:359:ARG:NH2	25:N:59:MET:SD	2.74	0.60
3:GL:113:VAL:HA	3:GL:116:VAL:HG22	1.84	0.60
3:HD:84:ILE:O	3:HD:86:ARG:NH1	2.32	0.60
4:HE:32:PRO:O	4:HE:85:GLN:NE2	2.33	0.60
3:HF:374:ILE:HD13	3:HF:422:TYR:HE2	1.66	0.60
4:HI:295:CYS:HB2	4:HI:377:MET:HE3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HK:171:ILE:HD12	4:HK:204:VAL:HG23	1.82	0.60
4:IA:49:PHE:O	4:IA:53:PHE:N	2.34	0.60
3:IF:48:ASN:O	3:IF:62:ARG:NH2	2.29	0.60
3:IF:186:THR:HG23	3:IF:385:PHE:CZ	2.36	0.60
4:IG:135:PHE:HE2	4:IG:157:LEU:HD11	1.66	0.60
4:IG:258:ASN:HA	3:IH:394:PHE:HE2	1.65	0.60
4:IK:272:TYR:CZ	4:IK:274:PRO:HG2	2.37	0.60
19:J3:63:GLU:O	19:J3:65:ILE:N	2.33	0.60
3:JB:139:LEU:N	3:JB:168:SER:OG	2.34	0.60
4:JG:88:HIS:HB3	4:JG:91:GLN:HB3	1.83	0.60
3:JJ:84:ILE:O	3:JJ:86:ARG:NH1	2.35	0.60
4:JK:52:PHE:HZ	4:JK:239:THR:HB	1.65	0.60
20:K:48:LYS:O	20:K:52:ARG:NH1	2.35	0.60
21:K3:109:LEU:HD23	21:K3:110:PRO:HD3	1.84	0.60
21:K3:245:VAL:HG22	21:K3:249:ASN:HA	1.84	0.60
4:KE:127:ASP:OD1	4:KE:128:LEU:N	2.33	0.60
3:KJ:73:MET:HA	3:KJ:76:VAL:HG12	1.83	0.60
3:KJ:317:PHE:O	3:KJ:354:CYS:N	2.32	0.60
22:L4:48:THR:HB	3:ML:336:LYS:HZ2	1.64	0.60
4:LC:370:LYS:HB3	27:Q:99:GLN:HG2	1.84	0.60
4:LE:32:PRO:O	4:LE:85:GLN:NE2	2.34	0.60
3:LF:378:PHE:HE1	3:LF:419:VAL:HG13	1.65	0.60
3:LH:252:LYS:O	3:LH:256:ASN:ND2	2.34	0.60
3:LJ:258:VAL:HB	4:LK:407:TRP:HZ2	1.67	0.60
4:LK:273:ALA:N	4:LK:377:MET:HE1	2.16	0.60
4:LK:392:ASP:OD1	4:LK:393:HIS:N	2.34	0.60
4:MI:171:ILE:HD12	4:MI:204:VAL:HG13	1.82	0.60
4:MI:207:GLU:HB2	4:MI:304:LYS:HZ1	1.65	0.60
4:MM:214:ARG:NH1	4:MM:215:ARG:HG3	2.16	0.60
4:NA:236:SER:O	4:NA:243:ARG:NH2	2.33	0.60
4:NA:262:TYR:OH	3:NB:391:ARG:O	2.19	0.60
39:NF:501:GTP:O3G	39:NF:501:GTP:O3'	2.13	0.60
3:NH:305:PRO:HA	3:NH:373:ALA:HB2	1.81	0.60
3:OF:2:ARG:HB3	3:OF:131:GLN:NE2	2.16	0.60
4:OG:371:VAL:HG11	4:OG:374:ALA:HB2	1.82	0.60
27:P:23:LEU:O	27:P:26:GLN:NE2	2.34	0.60
29:P2:50:GLN:HG3	29:P2:57:GLN:HG2	1.83	0.60
3:PB:305:PRO:HB2	3:PB:310:TYR:HE1	1.65	0.60
3:PD:12:CYS:HB3	39:PD:501:GTP:O4'	2.01	0.60
4:PI:302:MET:SD	4:PI:302:MET:N	2.61	0.60
4:PM:33:ASP:O	4:PM:60:LYS:NZ	2.29	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:Q3:1471:VAL:HG12	30:Q3:1475:ARG:HE	1.64	0.60
30:Q3:1494:LEU:O	30:Q3:1498:ASP:HB3	2.02	0.60
3:QB:392:LYS:HB2	3:QB:395:LEU:HD13	1.83	0.60
4:QC:49:PHE:O	4:QC:53:PHE:N	2.34	0.60
3:QF:13:GLY:HA2	3:QF:16:ILE:HB	1.83	0.60
3:QF:317:PHE:O	3:QF:354:CYS:N	2.29	0.60
4:QG:273:ALA:HB2	4:QG:295:CYS:HB3	1.82	0.60
4:QI:127:ASP:OD1	4:QI:128:LEU:N	2.35	0.60
3:QL:217:LEU:HB3	3:QL:276:ARG:HH22	1.66	0.60
4:RG:144:GLY:N	39:RG:501:GTP:O2B	2.33	0.60
3:RH:141:GLY:HA3	39:RH:501:GTP:H5"	1.82	0.60
3:RH:174:LYS:HG3	3:RH:175:VAL:HG13	1.82	0.60
3:RJ:111:GLU:HG2	3:RJ:112:LEU:HD12	1.83	0.60
3:RJ:117:LEU:HD11	3:RJ:154:LYS:HD2	1.82	0.60
3:SB:107:THR:OG1	3:SB:401:GLU:OE2	2.17	0.60
4:SC:103:TYR:HB2	4:SC:186:ASN:HB2	1.83	0.60
3:SH:84:ILE:O	3:SH:86:ARG:NH1	2.35	0.60
3:SH:250:LEU:HD13	3:SH:253:LEU:HD12	1.84	0.60
4:SI:205:ASP:OD2	4:SI:304:LYS:NZ	2.27	0.60
3:SJ:39:ASP:O	37:YO:20:GLN:NE2	2.33	0.60
3:SJ:54:ALA:HB3	3:SJ:58:LYS:HB3	1.83	0.60
4:SM:208:ALA:N	4:SM:304:LYS:HZ1	1.99	0.60
4:TE:192:HIS:HA	4:TE:195:LEU:HD23	1.82	0.60
3:TH:190:HIS:NE2	3:TH:414:ASN:OD1	2.34	0.60
3:TH:214:THR:HG21	3:TH:273:LEU:HB3	1.82	0.60
4:TI:144:GLY:N	39:TI:501:GTP:O2B	2.30	0.60
3:TJ:359:ARG:NE	3:TJ:359:ARG:HA	2.17	0.60
33:U:184:ARG:NH2	3:UL:26:ASP:OD2	2.35	0.60
4:UK:216:ASN:ND2	4:UK:275:VAL:O	2.35	0.60
3:VB:13:GLY:HA2	3:VB:16:ILE:HB	1.83	0.60
3:VJ:289:LEU:HD13	3:VJ:363:MET:HE3	1.82	0.60
4:WA:269:LEU:N	4:WA:379:SER:O	2.28	0.60
4:WC:12:ALA:HB1	39:WC:501:GTP:C2	2.36	0.60
35:XI:207:ASP:O	35:XI:210:GLN:NE2	2.34	0.60
35:XK:216:PHE:O	35:XK:220:GLY:N	2.34	0.60
37:YA:82:HIS:CE1	37:YA:86:LEU:HD11	2.36	0.60
37:YA:136:GLY:O	37:YA:140:LEU:N	2.30	0.60
37:YH:112:SER:HA	37:YH:135:GLY:HA3	1.81	0.60
37:YT:29:LEU:HD21	37:YT:66:LEU:HD11	1.83	0.60
2:A1:183:THR:HA	7:C1:266:ARG:HH22	1.66	0.60
2:A2:289:ILE:HG12	2:A2:365:LEU:HB3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A3:160:GLN:HG2	2:A3:238:LEU:HD12	1.84	0.60
4:AG:5:ILE:HD13	4:AG:64:ARG:HB3	1.84	0.60
4:AI:187:SER:O	4:AI:190:THR:OG1	2.17	0.60
4:AI:402:ARG:NH2	35:XK:233:PRO:HG2	2.16	0.60
5:B3:100:GLU:OE2	5:B3:104:GLN:NE2	2.34	0.60
3:BB:54:ALA:HB3	3:BB:58:LYS:HB3	1.82	0.60
3:BD:317:PHE:HB3	3:BD:321:MET:HE3	1.81	0.60
3:BF:60:VAL:HG23	3:BF:86:ARG:HH11	1.66	0.60
4:BG:401:LYS:C	4:BG:402:ARG:HD3	2.26	0.60
3:BJ:317:PHE:HB3	3:BJ:321:MET:HE3	1.83	0.60
3:BL:118:ASP:OD1	3:BL:121:ARG:NH1	2.34	0.60
7:C2:406:ARG:NH1	7:C2:412:CYS:H	1.99	0.60
4:CC:401:LYS:C	4:CC:402:ARG:HD3	2.26	0.60
3:CH:170:VAL:N	3:CH:202:ILE:O	2.33	0.60
6:D:56:MET:HG2	6:D:65:PHE:HB2	1.84	0.60
8:D3:276:VAL:HG22	8:D3:279:ARG:HH22	1.66	0.60
8:D4:376:ARG:O	8:D4:380:GLU:HG2	2.01	0.60
8:D7:357:LEU:HG	8:D7:377:LEU:HD13	1.83	0.60
8:D8:107:LEU:HD21	8:D8:225:ASP:HB2	1.82	0.60
8:D8:346:LYS:HE2	8:D9:88:THR:HB	1.83	0.60
4:DC:88:HIS:HB3	4:DC:91:GLN:HB3	1.84	0.60
4:DE:265:ILE:HD12	4:DE:432:TYR:CE1	2.37	0.60
3:DF:207:LEU:HD21	3:DF:225:LEU:HD22	1.84	0.60
4:DG:139:HIS:HE1	4:DG:168:GLU:HB3	1.67	0.60
3:EB:65:LEU:HD21	3:EB:90:PHE:HD1	1.66	0.60
4:EC:76:ASP:OD1	4:EC:79:ARG:NH1	2.34	0.60
4:EC:264:ARG:O	4:EC:266:HIS:ND1	2.33	0.60
3:EF:170:VAL:N	3:EF:202:ILE:O	2.30	0.60
3:EH:11:GLN:HE21	39:EH:501:GTP:H3'	1.65	0.60
9:F:329:TYR:CD1	9:F:333:ASN:HB2	2.35	0.60
11:F1:308:GLN:HA	11:F1:311:ARG:HD3	1.83	0.60
3:FB:132:GLY:HA3	3:FB:163:ILE:H	1.64	0.60
3:FH:324:LYS:HE2	4:FI:222:PRO:HG2	1.84	0.60
4:FI:35:GLN:HE21	11:Fj:474:LYS:HZ3	1.48	0.60
3:FJ:56:GLY:O	3:FJ:58:LYS:NZ	2.34	0.60
3:FJ:101:TRP:HB2	3:FJ:184:ASN:HD22	1.66	0.60
11:Fe:174:LYS:HE3	11:Fe:240:ILE:HG13	1.83	0.60
11:Fm:156:LEU:HD22	11:Fm:257:LYS:HZ2	1.67	0.60
4:GC:205:ASP:OD2	4:GC:304:LYS:NZ	2.28	0.60
4:GC:236:SER:O	4:GC:243:ARG:NH2	2.32	0.60
3:GD:84:ILE:O	3:GD:86:ARG:NH1	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GF:419:VAL:HG12	3:GF:423:GLN:HE22	1.66	0.60
12:H:449:ASN:O	12:H:453:MET:N	2.34	0.60
15:H2:212:LEU:HG	15:H2:213:ILE:N	2.16	0.60
4:IA:81:GLY:O	4:IA:84:ARG:NH1	2.35	0.60
3:IB:350:LYS:HE3	4:IC:181:VAL:H	1.66	0.60
3:ID:36:TYR:CZ	3:ID:38:GLY:HA2	2.37	0.60
4:IK:256:GLN:O	4:IK:260:VAL:HG12	2.01	0.60
3:IL:198:GLU:HA	3:IL:266:PHE:HE2	1.66	0.60
4:JC:50:ASN:O	4:JC:64:ARG:NH1	2.34	0.60
4:JC:125:LEU:HD13	4:JC:128:LEU:HD21	1.83	0.60
3:JD:276:ARG:HE	20:L:21:LEU:HD11	1.67	0.60
3:JL:309:ARG:H	3:JL:372:THR:HG1	1.50	0.60
21:K2:384:LYS:HG3	4:LE:339:ARG:NH1	2.16	0.60
4:KE:33:ASP:OD1	4:KE:34:GLY:N	2.35	0.60
4:KE:54:SER:HB2	4:KE:62:VAL:HB	1.83	0.60
22:L1:200:LEU:HD23	22:L1:241:ILE:HD13	1.83	0.60
22:L2:109:ASN:HD21	3:LF:262:ARG:HH12	1.47	0.60
4:LA:127:ASP:OD1	4:LA:128:LEU:N	2.34	0.60
4:LA:262:TYR:OH	3:LB:391:ARG:O	2.20	0.60
3:LB:427:ASP:OD1	24:M1:67:ARG:NH1	2.35	0.60
4:LC:329:ASN:OD1	4:LC:330:ALA:N	2.34	0.60
4:LE:30:ILE:HA	4:LE:36:MET:HE1	1.84	0.60
3:LF:11:GLN:HE21	39:LF:501:GTP:H3'	1.66	0.60
3:LF:258:VAL:HG13	3:LF:263:LEU:HB2	1.83	0.60
4:LI:168:GLU:HB2	4:LI:201:ALA:HA	1.84	0.60
23:M:97:ARG:NH2	23:M:100:THR:OG1	2.35	0.60
4:MC:203:MET:HE1	4:MC:267:PHE:HB3	1.84	0.60
4:ME:172:TYR:N	4:ME:204:VAL:O	2.32	0.60
3:MF:151:LEU:HD22	3:MF:154:LYS:HZ1	1.65	0.60
4:NA:53:PHE:O	4:NA:64:ARG:NH1	2.34	0.60
4:NA:172:TYR:N	4:NA:204:VAL:O	2.31	0.60
4:OC:127:ASP:OD1	4:OC:128:LEU:N	2.35	0.60
4:OE:33:ASP:OD1	4:OE:34:GLY:N	2.33	0.60
3:OF:211:CYS:HA	3:OF:215:LEU:HB2	1.83	0.60
3:OF:397:TRP:O	3:OF:401:GLU:N	2.34	0.60
3:OJ:11:GLN:HE21	39:OJ:501:GTP:H3'	1.65	0.60
29:P2:387:LYS:HA	29:P2:403:PRO:HG3	1.82	0.60
3:PJ:357:PRO:HB3	3:PJ:362:LYS:HA	1.83	0.60
3:PL:28:HIS:ND1	3:PL:43:GLN:HB2	2.17	0.60
3:PL:328:GLU:OE1	3:PL:332:ASN:ND2	2.35	0.60
27:Q:31:ASP:O	27:Q:35:ARG:N	2.26	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:Q1:1424:ASP:OD1	30:Q1:1509:ASP:HB3	2.01	0.60
3:QF:322:SER:N	3:QF:325:GLU:OE2	2.34	0.60
3:RH:11:GLN:HE21	39:RH:501:GTP:H3'	1.67	0.60
3:RH:150:LEU:HB3	3:RH:154:LYS:HZ1	1.66	0.60
3:RJ:385:PHE:HA	3:RJ:388:MET:HE2	1.82	0.60
4:RM:25:CYS:HB2	4:RM:30:ILE:HB	1.83	0.60
3:SD:322:SER:OG	3:SD:324:LYS:NZ	2.35	0.60
4:TG:396:ASP:OD1	4:TG:397:LEU:N	2.34	0.60
3:TH:386:THR:O	3:TH:390:ARG:N	2.33	0.60
4:UA:88:HIS:CE1	4:UA:121:ARG:HH22	2.19	0.60
3:VB:170:VAL:N	3:VB:202:ILE:O	2.31	0.60
3:VJ:305:PRO:HB2	3:VJ:310:TYR:HE1	1.65	0.60
4:VK:91:GLN:HG3	4:VK:121:ARG:HH21	1.67	0.60
4:WG:154:MET:HE3	4:WG:194:THR:HG22	1.84	0.60
4:WI:50:ASN:O	4:WI:64:ARG:NH1	2.34	0.60
3:WL:139:LEU:HD21	3:WL:170:VAL:HG22	1.82	0.60
3:AD:20:PHE:CE1	3:AD:233:MET:HG3	2.36	0.60
3:AH:246:LEU:HB2	3:AH:352:ALA:HB1	1.83	0.60
3:AH:323:MET:SD	3:AH:323:MET:N	2.74	0.60
4:AI:208:ALA:H	4:AI:304:LYS:HZ1	1.48	0.60
3:AL:11:GLN:HE21	39:AL:501:GTP:H3'	1.66	0.60
3:AL:139:LEU:N	3:AL:168:SER:OG	2.31	0.60
5:B7:270:ARG:HG2	7:C3:155:PHE:CE2	2.36	0.60
5:B7:321:ARG:NH1	5:B7:335:GLN:OE1	2.22	0.60
3:BB:235:GLY:O	3:BB:238:THR:OG1	2.20	0.60
3:BB:372:THR:HB	3:BB:375:GLN:HE22	1.67	0.60
4:BC:53:PHE:O	4:BC:64:ARG:NH1	2.34	0.60
3:BJ:156:ARG:NH1	3:BJ:195:ASN:O	2.34	0.60
3:BL:55:THR:HA	15:H6:28:ARG:HH12	1.66	0.60
3:CB:280:GLN:OE1	3:CB:280:GLN:N	2.27	0.60
3:CD:214:THR:HG21	3:CD:273:LEU:HB3	1.84	0.60
3:CH:214:THR:HG21	3:CH:273:LEU:HB3	1.84	0.60
7:Cc:111:ASN:O	7:Cc:115:HIS:ND1	2.35	0.60
8:D8:368:LEU:O	8:D9:252:SER:OG	2.20	0.60
8:D9:412:LEU:N	8:Da:63:ARG:HH22	1.99	0.60
4:DC:127:ASP:OD1	4:DC:128:LEU:N	2.35	0.60
3:DJ:1:MET:HA	4:DK:96:LYS:HE2	1.82	0.60
4:DK:269:LEU:N	4:DK:379:SER:O	2.30	0.60
9:E:590:PHE:HA	9:E:593:TYR:HB2	1.84	0.60
3:EB:289:LEU:HD21	3:EB:363:MET:HB3	1.84	0.60
4:EG:66:VAL:HA	4:EG:91:GLN:HE21	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EK:244:PHE:HB2	4:EK:356:ASN:HD21	1.66	0.60
11:F1:449:SER:HG	11:F1:453:HIS:HE2	1.48	0.60
11:F4:232:LEU:HD23	11:F4:235:ARG:HH22	1.67	0.60
11:F5:226:GLN:OE1	11:F5:226:GLN:N	2.25	0.60
11:F5:312:ALA:HA	11:F5:315:ILE:HD12	1.82	0.60
3:FB:375:GLN:HA	3:FB:378:PHE:CZ	2.37	0.60
3:FD:83:GLN:O	3:FD:86:ARG:NH2	2.35	0.60
3:FD:211:CYS:HA	3:FD:215:LEU:HB2	1.84	0.60
3:FH:132:GLY:HA2	3:FH:162:ARG:HB3	1.83	0.60
3:FH:218:THR:HG1	13:G2:457:ARG:NH2	1.99	0.60
11:Fb:415:ARG:HH22	11:Fc:138:THR:HA	1.66	0.60
11:Fj:158:TYR:CD2	12:G:268:ARG:HG2	2.35	0.60
13:G1:26:HIS:H	13:G1:48:GLY:HA2	1.67	0.60
13:G2:301:LEU:HD21	13:G2:315:ILE:HG12	1.83	0.60
13:G3:26:HIS:H	13:G3:48:GLY:HA2	1.65	0.60
4:GA:16:ILE:HD11	4:GA:138:PHE:HB3	1.83	0.60
4:GG:388:TRP:HB3	4:GG:425:LEU:HD11	1.83	0.60
4:HA:351:PHE:HZ	3:HB:175:VAL:HB	1.65	0.60
4:HC:154:MET:HG2	4:HC:166:LYS:HZ3	1.66	0.60
39:HD:501:GTP:O3G	39:HD:501:GTP:O3'	2.18	0.60
3:HH:268:PRO:HD2	3:HH:301:ALA:HB2	1.83	0.60
4:HI:271:THR:HG23	4:HI:302:MET:HE1	1.83	0.60
4:HK:30:ILE:HA	4:HK:36:MET:HE1	1.84	0.60
17:I2:48:TYR:O	17:I2:51:ASP:N	2.27	0.60
4:IE:419:SER:HA	4:IE:422:ARG:HE	1.67	0.60
4:IG:338:LYS:HZ2	4:IG:340:THR:H	1.49	0.60
4:IM:321:GLY:N	4:IM:356:ASN:O	2.32	0.60
3:JF:54:ALA:HA	3:KF:283:ALA:HB2	1.82	0.60
4:JI:214:ARG:NH1	4:JI:215:ARG:HG3	2.16	0.60
4:JK:419:SER:HA	4:JK:422:ARG:HE	1.67	0.60
20:K:73:VAL:HB	20:K:268:MET:HB2	1.84	0.60
4:KA:68:VAL:HG12	4:KA:93:ILE:HB	1.84	0.60
4:KA:144:GLY:N	39:KA:501:GTP:O2B	2.34	0.60
4:KA:171:ILE:HD12	4:KA:204:VAL:HG13	1.82	0.60
3:KB:412:GLU:OE1	3:KB:416:ASN:ND2	2.34	0.60
3:KH:268:PRO:HD2	3:KH:301:ALA:HB2	1.83	0.60
3:KJ:7:LEU:HD13	3:KJ:64:VAL:HB	1.84	0.60
3:KL:2:ARG:HB3	3:KL:131:GLN:NE2	2.16	0.60
3:KL:299:MET:HE1	3:KL:301:ALA:HB3	1.83	0.60
22:L2:210:GLU:O	22:L2:213:SER:OG	2.20	0.60
22:L3:160:LYS:O	22:L3:164:ASP:N	2.29	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:LA:161:TYR:O	4:LA:166:LYS:NZ	2.34	0.60
3:LD:309:ARG:H	3:LD:372:THR:HG1	1.50	0.60
3:LJ:101:TRP:HB2	3:LJ:184:ASN:HD22	1.67	0.60
3:LL:322:SER:N	3:LL:325:GLU:OE2	2.34	0.60
4:MC:396:ASP:OD1	4:MC:397:LEU:N	2.34	0.60
3:MD:330:MET:HA	3:MD:333:VAL:HG12	1.84	0.60
3:MF:292:GLN:O	3:MF:298:ASN:ND2	2.35	0.60
4:MG:33:ASP:OD1	4:MG:34:GLY:N	2.34	0.60
4:MI:271:THR:O	4:MI:377:MET:N	2.19	0.60
3:NF:246:LEU:HB2	3:NF:352:ALA:HB1	1.83	0.60
39:NH:501:GTP:O3G	39:NH:501:GTP:O3'	2.12	0.60
4:NK:388:TRP:HB3	4:NK:425:LEU:HD11	1.83	0.60
3:NL:73:MET:HA	3:NL:76:VAL:HG22	1.84	0.60
28:O1:81:LEU:HB3	28:O1:115:GLY:HA3	1.83	0.60
4:OC:87:PHE:HB3	4:OC:92:LEU:HD21	1.84	0.60
3:OD:152:ILE:HD12	3:OD:155:ILE:HD11	1.83	0.60
3:OD:309:ARG:NH2	3:OD:426:GLN:O	2.35	0.60
3:OH:357:PRO:HB3	3:OH:362:LYS:HA	1.82	0.60
3:OJ:33:THR:O	3:OJ:58:LYS:NZ	2.35	0.60
3:OL:101:TRP:HB2	3:OL:184:ASN:HD22	1.65	0.60
27:P:344:ASN:HA	27:P:347:ARG:HH21	1.67	0.60
29:P1:546:GLY:HA3	29:P1:565:HIS:HB2	1.84	0.60
4:PC:338:LYS:HZ2	4:PC:340:THR:H	1.48	0.60
3:PD:12:CYS:HA	3:PD:15:GLN:NE2	2.16	0.60
30:Q1:1386:TYR:HB3	30:Q1:1395:ALA:H	1.66	0.60
3:QD:273:LEU:H	3:QD:292:GLN:HE22	1.49	0.60
4:QE:33:ASP:OD1	4:QE:34:GLY:N	2.34	0.60
3:RF:211:CYS:HA	3:RF:215:LEU:HB2	1.84	0.60
3:RF:295:ASP:HB2	3:RF:298:ASN:HB2	1.84	0.60
4:RG:338:LYS:HZ2	4:RG:340:THR:H	1.49	0.60
3:RH:324:LYS:NZ	4:RI:222:PRO:O	2.25	0.60
3:RL:406:MET:O	3:RL:409:THR:OG1	2.16	0.60
3:SD:60:VAL:HG23	3:SD:86:ARG:HH11	1.67	0.60
3:SF:117:LEU:HD11	3:SF:154:LYS:HD2	1.83	0.60
4:SG:1:MET:O	4:SG:131:GLY:HA3	2.02	0.60
4:SI:316:CYS:N	4:SI:378:LEU:O	2.34	0.60
4:TC:12:ALA:HB2	39:TC:501:GTP:H5"	1.84	0.60
4:TC:396:ASP:OD1	4:TC:397:LEU:N	2.35	0.60
3:TD:12:CYS:HA	39:TD:501:GTP:N2	2.17	0.60
3:TD:28:HIS:ND1	3:TD:43:GLN:HB2	2.17	0.60
4:TE:285:GLN:HE22	4:TE:287:SER:HB3	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TF:17:GLY:O	3:TF:20:PHE:N	2.33	0.60
4:TG:53:PHE:O	4:TG:64:ARG:NH1	2.34	0.60
3:TH:170:VAL:N	3:TH:202:ILE:O	2.33	0.60
3:TN:84:ILE:O	3:TN:86:ARG:NH1	2.33	0.60
4:UC:33:ASP:OD1	4:UC:34:GLY:N	2.33	0.60
3:UD:55:THR:HG23	3:VD:283:ALA:HA	1.84	0.60
4:VA:107:HIS:HA	4:VA:152:LEU:HD23	1.83	0.60
4:VG:229:ARG:HE	4:VG:368:LEU:HD22	1.66	0.60
4:WE:172:TYR:N	4:WE:204:VAL:O	2.32	0.60
4:WE:273:ALA:HB2	4:WE:295:CYS:HB3	1.83	0.60
3:WH:286:VAL:HG21	3:WH:325:GLU:HG3	1.83	0.60
3:WH:324:LYS:HD2	4:WI:221:ARG:HA	1.84	0.60
4:WK:310:GLY:O	4:WK:342:GLN:NE2	2.34	0.60
34:XA:109:GLN:HB2	34:XA:122:PRO:HB3	1.84	0.60
35:XL:108:GLU:OE1	35:XL:112:ARG:NH2	2.21	0.60
35:XM:141:LEU:HD13	35:XM:180:ILE:HG21	1.84	0.60
37:YI:80:CYS:HA	37:YI:83:PHE:HD2	1.66	0.60
37:YQ:160:ARG:NH2	37:YR:84:GLU:OE1	2.26	0.60
37:YU:161:LYS:HG3	37:YU:162:VAL:HG23	1.82	0.60
36:Z:419:THR:HA	36:Z:422:LYS:NZ	2.17	0.60
2:A4:68:GLU:HA	2:A4:71:ARG:HD2	1.82	0.60
3:AB:16:ILE:HD13	3:AB:226:ASN:HD22	1.66	0.60
4:AE:203:MET:N	4:AE:203:MET:SD	2.75	0.60
3:AJ:302:ALA:HB1	3:AJ:377:LEU:HD11	1.83	0.60
4:AK:371:VAL:HG11	4:AK:374:ALA:HB2	1.82	0.60
1:B:345:ARG:HG2	1:B:348:ARG:HE	1.66	0.60
5:B8:333:GLN:HA	5:B8:336:TYR:HD2	1.67	0.60
4:BG:205:ASP:OD2	4:BG:304:LYS:NZ	2.34	0.60
4:BI:220:GLU:O	4:BI:221:ARG:NE	2.33	0.60
4:BM:245:ASP:O	4:BM:356:ASN:ND2	2.33	0.60
6:C:286:GLY:N	6:C:332:GLN:O	2.33	0.60
7:C2:98:ASP:OD1	7:C2:99:TRP:N	2.35	0.60
3:CF:268:PRO:HD2	3:CF:301:ALA:HB2	1.83	0.60
4:CG:109:THR:O	4:CG:112:LYS:NZ	2.35	0.60
4:CI:66:VAL:HG22	4:CI:91:GLN:HG2	1.83	0.60
4:CI:271:THR:OG1	4:CI:301:GLN:NE2	2.34	0.60
7:Cd:295:SER:OG	7:Cd:299:THR:OG1	2.19	0.60
6:D:147:LEU:HD23	6:D:177:VAL:HB	1.83	0.60
8:D4:75:GLU:HA	8:D4:78:ARG:NE	2.15	0.60
8:D4:183:ILE:O	8:D4:187:GLN:HG2	2.01	0.60
4:DC:262:TYR:OH	3:DD:391:ARG:O	2.20	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DF:289:LEU:HD21	3:DF:363:MET:HB3	1.83	0.60
4:DI:108:TYR:O	4:DI:112:LYS:NZ	2.25	0.60
3:DL:170:VAL:N	3:DL:202:ILE:O	2.33	0.60
10:E1:7:GLU:OE1	10:E1:7:GLU:N	2.35	0.60
10:E1:130:SER:O	10:E1:133:ARG:NH1	2.34	0.60
3:EB:108:GLU:OE1	3:EB:108:GLU:N	2.35	0.60
3:EB:214:THR:HG21	3:EB:273:LEU:HB3	1.83	0.60
3:EF:305:PRO:HB2	3:EF:310:TYR:HE1	1.67	0.60
4:EK:125:LEU:HD13	4:EK:128:LEU:HD21	1.83	0.60
4:EK:252:LEU:HD13	4:EK:255:PHE:HD2	1.65	0.60
11:F6:210:ASN:OD1	11:F6:346:ARG:NH2	2.34	0.60
3:FD:229:VAL:O	3:FD:232:THR:OG1	2.15	0.60
3:FH:322:SER:OG	3:FH:324:LYS:NZ	2.33	0.60
11:Fa:338:ASN:HA	11:Fa:341:LEU:HD12	1.84	0.60
11:Fh:211:VAL:HG13	11:Fh:346:ARG:HH21	1.66	0.60
13:G2:297:MET:HB3	13:G2:324:TYR:HD2	1.67	0.60
14:G5:99:ILE:HG21	14:G5:192:PRO:HG2	1.84	0.60
14:G5:488:LYS:HZ2	14:G5:501:TYR:C	2.09	0.60
14:G6:13:ARG:HD2	14:G6:15:ILE:HG12	1.82	0.60
3:GD:306:ARG:NE	3:GD:306:ARG:O	2.32	0.60
4:GE:336:LYS:HE2	3:GF:175:VAL:HG21	1.82	0.60
4:GG:108:TYR:O	4:GG:112:LYS:NZ	2.29	0.60
4:GG:396:ASP:OD1	4:GG:397:LEU:N	2.35	0.60
15:H2:212:LEU:HG	15:H2:213:ILE:H	1.66	0.60
15:H4:212:LEU:HG	15:H4:213:ILE:N	2.17	0.60
15:H4:224:PHE:HB2	15:H4:228:PHE:CZ	2.35	0.60
4:HE:372:GLN:OE1	4:HE:373:ARG:NH1	2.35	0.60
4:HG:272:TYR:CZ	4:HG:274:PRO:HG2	2.36	0.60
4:HG:316:CYS:HB3	4:HG:378:LEU:HB3	1.83	0.60
3:HH:119:VAL:HA	3:HH:122:LYS:HE3	1.83	0.60
3:HJ:46:ARG:HH22	4:HK:73:THR:HA	1.66	0.60
4:IA:172:TYR:N	4:IA:204:VAL:O	2.29	0.60
4:IC:182:VAL:HA	4:IC:185:TYR:HD2	1.65	0.60
3:ID:392:LYS:HB2	3:ID:395:LEU:HD13	1.83	0.60
3:IF:12:CYS:HA	39:IF:501:GTP:HN22	1.66	0.60
3:IH:267:MET:O	3:IH:369:GLY:N	2.30	0.60
4:II:52:PHE:HZ	4:II:239:THR:HB	1.66	0.60
4:II:216:ASN:HB2	4:II:276:ILE:HD12	1.82	0.60
4:IK:49:PHE:O	4:IK:53:PHE:N	2.33	0.60
4:JG:203:MET:N	4:JG:203:MET:SD	2.74	0.60
4:JI:269:LEU:N	4:JI:379:SER:O	2.28	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JJ:211:CYS:HA	3:JJ:215:LEU:HB2	1.83	0.60
3:KD:268:PRO:HD2	3:KD:301:ALA:HB2	1.84	0.60
3:KF:379:LYS:O	3:KF:382:SER:OG	2.13	0.60
4:KG:20:CYS:O	4:KG:24:TYR:N	2.34	0.60
22:L3:105:PHE:CZ	3:LJ:421:GLU:HA	2.37	0.60
3:LD:132:GLY:HA2	3:LD:162:ARG:HB3	1.82	0.60
3:LD:282:ARG:NH2	3:LD:292:GLN:OE1	2.29	0.60
3:MB:278:SER:HA	3:MB:281:TYR:HB2	1.84	0.60
3:MD:392:LYS:HB2	3:MD:395:LEU:HD13	1.83	0.60
3:MF:47:ILE:HG13	3:MF:51:TYR:HB2	1.82	0.60
3:MF:120:VAL:O	3:MF:124:ALA:N	2.33	0.60
4:MG:9:VAL:HA	4:MG:68:VAL:HG23	1.83	0.60
3:ML:178:THR:HB	3:ML:181:GLU:HB2	1.82	0.60
4:MM:88:HIS:CE1	4:MM:121:ARG:HH22	2.19	0.60
4:MM:144:GLY:N	39:MM:501:GTP:O2B	2.34	0.60
3:NF:46:ARG:HH12	4:NG:73:THR:HG23	1.66	0.60
4:NG:1:MET:SD	4:NG:2:ARG:N	2.75	0.60
4:OA:172:TYR:N	4:OA:204:VAL:O	2.31	0.60
3:OD:83:GLN:O	3:OD:86:ARG:NH2	2.34	0.60
3:OD:194:GLU:OE1	3:OD:195:ASN:ND2	2.35	0.60
4:OE:144:GLY:N	39:OE:501:GTP:O2B	2.34	0.60
29:P1:186:GLU:HG2	29:P1:195:TRP:HB2	1.83	0.60
29:P3:479:ALA:HB1	29:P3:505:PHE:HB3	1.84	0.60
3:PH:375:GLN:HA	3:PH:378:PHE:CZ	2.37	0.60
3:PJ:280:GLN:OE1	3:PJ:280:GLN:N	2.29	0.60
4:PK:208:ALA:H	4:PK:304:LYS:HZ1	1.48	0.60
4:PK:264:ARG:O	4:PK:266:HIS:ND1	2.30	0.60
4:PK:279:GLU:HB3	37:YS:128:ASP:N	2.16	0.60
4:PM:171:ILE:HD12	4:PM:204:VAL:HG13	1.82	0.60
3:QD:392:LYS:HB2	3:QD:395:LEU:HD13	1.83	0.60
4:QE:192:HIS:HA	4:QE:195:LEU:HD23	1.83	0.60
3:QF:286:VAL:HG21	3:QF:325:GLU:HG3	1.83	0.60
3:QF:357:PRO:HB3	3:QF:362:LYS:HA	1.84	0.60
4:QG:46:ASP:OD1	4:QG:50:ASN:ND2	2.31	0.60
4:QG:358:GLN:NE2	4:QG:359:PRO:O	2.34	0.60
3:QH:32:PRO:O	3:QH:83:GLN:NE2	2.31	0.60
4:QK:91:GLN:HG3	4:QK:121:ARG:HH21	1.66	0.60
3:RH:172:SER:OG	3:RH:205:GLU:OE2	2.19	0.60
3:RL:412:GLU:OE1	3:RL:416:ASN:ND2	2.35	0.60
4:SE:214:ARG:NH1	4:SE:215:ARG:HG3	2.17	0.60
4:SK:46:ASP:OD1	4:SK:50:ASN:ND2	2.33	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:TE:32:PRO:O	4:TE:85:GLN:NE2	2.35	0.60
4:TE:88:HIS:HB3	4:TE:91:GLN:HB2	1.83	0.60
3:TJ:173:PRO:O	3:TJ:380:ARG:NH2	2.34	0.60
3:TL:323:MET:SD	3:TL:323:MET:N	2.73	0.60
4:UE:423:GLU:HA	4:UE:426:ALA:HB3	1.83	0.60
4:UG:70:LEU:HA	4:UG:95:GLY:HA3	1.82	0.60
3:UH:117:LEU:HD11	3:UH:154:LYS:HD2	1.83	0.60
3:UJ:111:GLU:HG2	3:UJ:112:LEU:HD12	1.82	0.60
4:VE:50:ASN:O	4:VE:64:ARG:NH1	2.33	0.60
4:VI:245:ASP:O	4:VI:356:ASN:ND2	2.33	0.60
4:VK:419:SER:HA	4:VK:422:ARG:HE	1.66	0.60
33:W:286:MET:HA	33:W:289:TYR:CD2	2.36	0.60
3:WB:385:PHE:HA	3:WB:388:MET:HE2	1.83	0.60
3:WD:139:LEU:HD21	3:WD:170:VAL:HG22	1.84	0.60
3:WD:286:VAL:HG21	3:WD:325:GLU:HG3	1.84	0.60
34:XA:92:GLN:HB3	34:XA:153:ARG:HG3	1.84	0.60
34:XE:94:LEU:HB2	34:XE:152:LEU:HD11	1.84	0.60
35:XK:117:ASP:O	35:XK:121:HIS:ND1	2.27	0.60
35:XM:103:MET:HG3	35:XM:148:ILE:HG12	1.82	0.60
36:Y:170:LYS:HG3	36:Y:171:ASN:H	1.66	0.60
37:YD:57:CYS:O	37:YD:63:ARG:NH1	2.34	0.60
37:YD:114:ARG:NH2	37:YD:133:HIS:O	2.34	0.60
37:YJ:33:ARG:NH2	37:YJ:134:TYR:OH	2.34	0.60
37:YP:57:CYS:O	37:YP:63:ARG:NH1	2.35	0.60
37:YW:61:THR:HG22	37:YW:64:ARG:HH21	1.67	0.60
2:A1:336:ARG:HH12	2:A2:62:LYS:HB2	1.67	0.60
2:A2:330:ARG:HH22	2:A3:212:VAL:C	2.10	0.60
3:AB:12:CYS:SG	3:AB:13:GLY:N	2.75	0.60
4:AC:423:GLU:OE2	34:XB:108:TYR:OH	2.17	0.60
3:AD:12:CYS:HA	39:AD:501:GTP:HN22	1.67	0.60
3:AD:323:MET:SD	3:AD:323:MET:N	2.73	0.60
3:AD:381:ILE:HD12	3:AD:385:PHE:HE2	1.66	0.60
4:AE:306:ASP:OD2	4:AE:309:HIS:N	2.35	0.60
3:AF:5:VAL:HG23	3:AF:130:LEU:HD21	1.84	0.60
4:AG:398:MET:O	4:AG:402:ARG:N	2.35	0.60
4:AI:203:MET:N	4:AI:203:MET:SD	2.74	0.60
5:B8:44:ILE:HG12	7:C1:126:ARG:HH12	1.67	0.60
3:BD:361:LEU:HB3	14:G4:93:ARG:NH2	2.16	0.60
3:BD:385:PHE:HZ	3:BD:408:PHE:HB3	1.67	0.60
3:BF:165:ASN:OD1	3:BF:166:THR:N	2.35	0.60
3:BF:282:ARG:NH2	3:BF:292:GLN:OE1	2.27	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BH:268:PRO:HD2	3:BH:301:ALA:HB2	1.84	0.60
4:BM:205:ASP:OD2	4:BM:304:LYS:NZ	2.32	0.60
4:BM:396:ASP:OD1	4:BM:397:LEU:N	2.34	0.60
7:C8:255:GLU:HG2	8:D9:246:LYS:HE2	1.84	0.60
3:CD:246:LEU:HB2	3:CD:352:ALA:HB1	1.83	0.60
4:CE:316:CYS:HB3	4:CE:378:LEU:HB2	1.83	0.60
4:CI:205:ASP:OD2	4:CI:304:LYS:NZ	2.33	0.60
3:CL:379:LYS:O	3:CL:382:SER:OG	2.14	0.60
7:Cb:220:LEU:HD13	8:D2:25:LYS:HG2	1.84	0.60
6:D:130:GLU:OE1	6:D:134:LYS:NZ	2.33	0.60
8:D9:197:ALA:O	8:D9:201:ILE:HG12	2.02	0.60
3:DF:12:CYS:HA	39:DF:501:GTP:N2	2.16	0.60
3:DF:46:ARG:HH12	4:DG:73:THR:HG23	1.66	0.60
3:DF:324:LYS:NZ	4:DG:222:PRO:O	2.23	0.60
3:DH:374:ILE:HA	3:DH:377:LEU:HD13	1.83	0.60
3:ED:268:PRO:HD2	3:ED:301:ALA:HB2	1.83	0.60
4:EE:273:ALA:HB2	4:EE:295:CYS:HB3	1.83	0.60
4:EG:39:ASP:HA	13:G2:421:ARG:HH22	1.67	0.60
4:EI:245:ASP:O	4:EI:356:ASN:ND2	2.34	0.60
3:EL:292:GLN:O	3:EL:298:ASN:ND2	2.35	0.60
11:F3:127:LYS:O	11:F3:131:ILE:HD12	2.00	0.60
11:F6:166:GLU:OE1	11:F6:311:ARG:NH1	2.35	0.60
11:F8:424:ASP:OD1	11:F8:425:ASP:N	2.35	0.60
3:FD:12:CYS:HA	39:FD:501:GTP:N2	2.16	0.60
4:FI:46:ASP:OD1	4:FI:50:ASN:ND2	2.35	0.60
3:FJ:322:SER:N	3:FJ:325:GLU:OE2	2.34	0.60
3:FL:250:LEU:HD13	3:FL:253:LEU:HD12	1.84	0.60
13:G1:271:ASP:HB3	13:G1:296:ARG:HH22	1.66	0.60
14:G6:75:ASP:O	14:G6:77:GLN:NE2	2.30	0.60
14:G6:201:ARG:O	14:G6:205:GLU:N	2.31	0.60
14:G6:328:VAL:O	14:G6:330:GLN:NE2	2.35	0.60
4:GA:212:ILE:HG12	4:GA:215:ARG:HH22	1.67	0.60
3:GB:277:GLY:O	3:GB:280:GLN:NE2	2.34	0.60
4:GE:207:GLU:HB2	4:GE:304:LYS:HZ1	1.66	0.60
4:GG:301:GLN:HE21	4:GG:303:VAL:HG23	1.66	0.60
15:H3:26:GLN:HE22	15:H3:42:LEU:HA	1.66	0.60
15:H4:217:ALA:H	15:H4:236:TYR:HE2	1.50	0.60
15:H6:216:LYS:HG3	15:H6:217:ALA:N	2.15	0.60
3:HL:211:CYS:HA	3:HL:215:LEU:HB2	1.83	0.60
4:IC:229:ARG:NH1	4:IC:233:GLN:HB3	2.16	0.60
4:IE:108:TYR:O	4:IE:112:LYS:NZ	2.27	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:IE:221:ARG:HG3	38:a:101:LEU:HB3	1.83	0.60
3:IH:249:ASP:O	3:IH:252:LYS:HB2	2.01	0.60
3:IJ:130:LEU:HB2	3:IJ:162:ARG:HH11	1.67	0.60
3:JH:139:LEU:N	3:JH:168:SER:OG	2.34	0.60
21:K1:396:PRO:O	21:K1:400:MET:N	2.35	0.60
21:K4:271:PRO:HB2	21:K4:276:GLN:NE2	2.17	0.60
4:KC:36:MET:HG3	4:KC:41:THR:OG1	2.01	0.60
4:KE:171:ILE:HD12	4:KE:204:VAL:HG13	1.83	0.60
4:KE:388:TRP:HB3	4:KE:425:LEU:HD11	1.84	0.60
3:KF:235:GLY:O	3:KF:238:THR:OG1	2.17	0.60
22:L1:80:ARG:NH2	4:LA:192:HIS:O	2.34	0.60
4:LG:154:MET:HE1	4:LG:197:HIS:HB2	1.84	0.60
4:LG:208:ALA:H	4:LG:304:LYS:NZ	1.98	0.60
3:LJ:295:ASP:HB2	3:LJ:298:ASN:HB2	1.83	0.60
3:MB:60:VAL:HG23	3:MB:86:ARG:HH11	1.66	0.60
4:MC:12:ALA:HB1	39:MC:501:GTP:C2	2.37	0.60
4:MM:396:ASP:OD1	4:MM:397:LEU:N	2.35	0.60
4:NA:34:GLY:HA2	4:NA:86:LEU:HD21	1.84	0.60
4:NC:9:VAL:HG11	4:NC:150:ALA:HB2	1.81	0.60
4:NC:295:CYS:HB2	4:NC:377:MET:HE3	1.84	0.60
3:NH:60:VAL:HG23	3:NH:86:ARG:HH11	1.66	0.60
3:NL:13:GLY:HA2	3:NL:16:ILE:HB	1.84	0.60
4:OA:30:ILE:HA	4:OA:36:MET:HE1	1.84	0.60
3:OD:77:ARG:O	3:OD:77:ARG:NH1	2.31	0.60
3:OF:282:ARG:NH2	3:OF:292:GLN:OE1	2.26	0.60
29:P1:248:LYS:HB2	3:WD:33:THR:HG22	1.83	0.60
29:P3:396:GLY:O	29:P3:415:ALA:N	2.35	0.60
4:PC:161:TYR:O	4:PC:166:LYS:NZ	2.33	0.60
4:PE:53:PHE:O	4:PE:64:ARG:NH1	2.35	0.60
3:PJ:292:GLN:O	3:PJ:298:ASN:ND2	2.33	0.60
4:PK:244:PHE:HB2	4:PK:356:ASN:HD21	1.67	0.60
4:PM:388:TRP:HB3	4:PM:425:LEU:HD11	1.83	0.60
30:Q2:1419:ARG:O	30:Q2:1508:ASN:ND2	2.33	0.60
3:QB:28:HIS:HD2	3:QB:43:GLN:HB2	1.66	0.60
4:QC:107:HIS:HA	4:QC:152:LEU:HD23	1.84	0.60
4:QE:214:ARG:NH1	4:QE:215:ARG:HG3	2.16	0.60
4:QE:236:SER:O	4:QE:243:ARG:NH2	2.31	0.60
4:QG:127:ASP:OD1	4:QG:128:LEU:N	2.34	0.60
4:QI:396:ASP:OD1	4:QI:397:LEU:N	2.35	0.60
3:QJ:412:GLU:OE1	3:QJ:416:ASN:ND2	2.35	0.60
3:RD:174:LYS:HG2	3:RD:205:GLU:OE2	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:RE:53:PHE:O	4:RE:64:ARG:NH1	2.35	0.60
4:RE:245:ASP:O	4:RE:356:ASN:ND2	2.34	0.60
4:RG:329:ASN:HA	4:RG:332:ILE:HG12	1.84	0.60
3:RL:374:ILE:HA	3:RL:377:LEU:HD13	1.83	0.60
4:SI:194:THR:HA	4:SI:197:HIS:CE1	2.36	0.60
3:SL:322:SER:N	3:SL:325:GLU:OE2	2.33	0.60
4:SM:192:HIS:HA	4:SM:195:LEU:HD23	1.83	0.60
3:TB:77:ARG:O	3:TB:77:ARG:NH1	2.33	0.60
4:TE:216:ASN:HB2	4:TE:276:ILE:HD12	1.81	0.60
3:TF:132:GLY:HA2	3:TF:162:ARG:HB3	1.82	0.60
3:TF:141:GLY:HA3	39:TF:501:GTP:H5"	1.84	0.60
3:TF:273:LEU:H	3:TF:292:GLN:HE22	1.50	0.60
4:TK:1:MET:SD	4:TK:2:ARG:N	2.75	0.60
3:TL:328:GLU:OE1	3:TL:332:ASN:ND2	2.35	0.60
33:U:485:ASN:HD22	4:UA:370:LYS:HD3	1.66	0.60
3:UF:139:LEU:HD21	3:UF:170:VAL:HG22	1.84	0.60
4:UK:207:GLU:HB2	4:UK:304:LYS:HZ1	1.65	0.60
4:UK:264:ARG:O	4:UK:266:HIS:ND1	2.32	0.60
4:VG:6:SER:HA	4:VG:136:LEU:HB2	1.84	0.60
4:VG:12:ALA:O	39:VG:501:GTP:N1	2.34	0.60
33:W:363:ARG:NH1	33:W:366:GLU:OE2	2.35	0.60
4:WE:21:TRP:HE1	4:WE:65:ALA:HB3	1.65	0.60
34:XB:73:LEU:HD22	34:XB:169:ASP:HB3	1.84	0.60
34:XB:93:VAL:HG12	34:XB:151:THR:HA	1.83	0.60
34:XC:71:ILE:HG21	34:XC:167:PHE:HD2	1.67	0.60
34:XG:93:VAL:HG12	34:XG:151:THR:HA	1.83	0.60
35:XH:156:LEU:HD23	35:XH:159:LEU:HD12	1.82	0.60
37:YJ:12:GLU:HG3	37:YJ:145:LEU:HD21	1.83	0.60
37:YU:57:CYS:O	37:YU:63:ARG:NH1	2.34	0.60
38:a:29:PHE:HA	38:a:32:HIS:CD2	2.37	0.60
1:A:137:ARG:NH2	4:HG:282:TYR:O	2.34	0.60
2:A4:66:ARG:NH1	2:A4:69:GLU:OE1	2.35	0.60
3:AB:2:ARG:HB3	3:AB:131:GLN:NE2	2.16	0.60
3:AB:141:GLY:HA3	39:AB:501:GTP:H5"	1.83	0.60
4:AE:115:VAL:HG21	4:AE:156:ARG:HD3	1.83	0.60
3:AL:12:CYS:HA	39:AL:501:GTP:N2	2.16	0.60
4:AM:203:MET:N	4:AM:203:MET:SD	2.74	0.60
4:AM:208:ALA:H	4:AM:304:LYS:NZ	1.99	0.60
5:B2:345:LEU:O	5:B2:349:ILE:HG12	2.01	0.60
5:B8:96:LYS:NZ	5:B8:155:ILE:O	2.35	0.60
4:BE:423:GLU:HA	4:BE:426:ALA:HB3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BG:49:PHE:O	4:BG:53:PHE:N	2.34	0.60
7:C4:259:SER:O	7:C4:262:GLN:HG3	2.02	0.60
7:C7:292:ALA:HB1	10:E2:37:PRO:HA	1.83	0.60
7:C9:406:ARG:HH22	7:C9:412:CYS:H	1.49	0.60
4:CG:70:LEU:HA	4:CG:95:GLY:HA3	1.82	0.60
4:CG:79:ARG:NE	15:H3:218:ILE:HD12	2.15	0.60
4:CG:274:PRO:HG3	4:CG:374:ALA:HA	1.83	0.60
3:CJ:2:ARG:HA	3:CJ:129:CYS:O	2.02	0.60
8:D4:98:ASP:HB3	8:D5:376:ARG:HH12	1.65	0.60
8:D8:332:GLN:O	8:D8:336:ILE:HG13	2.01	0.60
8:D8:376:ARG:HB2	8:D9:102:LYS:HZ2	1.66	0.60
3:DB:28:HIS:ND1	3:DB:43:GLN:HB2	2.16	0.60
3:DB:58:LYS:HE3	3:EB:280:GLN:HB2	1.84	0.60
3:DH:322:SER:N	3:DH:325:GLU:OE2	2.33	0.60
4:DI:5:ILE:HD13	4:DI:64:ARG:HB3	1.84	0.60
3:DL:194:GLU:OE1	3:DL:195:ASN:ND2	2.35	0.60
9:E:408:THR:HG23	9:E:409:PRO:HD3	1.83	0.60
10:E3:113:LEU:O	10:E3:114:ARG:HD3	2.02	0.60
4:EA:438:ASP:O	3:EB:391:ARG:NH2	2.26	0.60
3:EB:12:CYS:HA	39:EB:501:GTP:HN22	1.66	0.60
4:EG:1:MET:SD	4:EG:2:ARG:N	2.75	0.60
3:EH:46:ARG:HH12	4:EI:73:THR:HG23	1.66	0.60
4:EI:371:VAL:HG11	4:EI:374:ALA:HB2	1.82	0.60
4:EK:245:ASP:O	4:EK:356:ASN:ND2	2.35	0.60
11:F6:263:ILE:HA	11:F6:266:ASN:HD21	1.67	0.60
11:F8:231:LYS:HA	11:F8:234:LYS:HD2	1.83	0.60
3:FB:83:GLN:O	3:FB:86:ARG:NH2	2.35	0.60
3:FB:139:LEU:N	3:FB:168:SER:OG	2.34	0.60
3:FB:156:ARG:NH1	3:FB:195:ASN:O	2.35	0.60
4:FC:186:ASN:OD1	4:FC:187:SER:N	2.35	0.60
4:FE:3:GLU:OE2	4:FE:130:THR:N	2.31	0.60
3:FF:68:LEU:HD12	3:FF:97:ALA:HB2	1.84	0.60
3:FL:317:PHE:HB3	3:FL:321:MET:HE3	1.84	0.60
11:Fa:382:ILE:HA	11:Fa:430:LEU:HD21	1.84	0.60
11:Fb:184:VAL:HG23	11:Fb:226:GLN:HE22	1.67	0.60
11:Fc:163:LEU:O	11:Fc:167:ASN:ND2	2.35	0.60
14:G4:120:VAL:HG12	14:G4:127:GLN:HE22	1.66	0.60
3:GB:222:TYR:HA	3:GB:225:LEU:HD13	1.84	0.60
3:GB:372:THR:HB	3:GB:375:GLN:HE22	1.66	0.60
3:GB:415:MET:O	3:GB:419:VAL:HG23	2.02	0.60
4:GE:263:PRO:HD3	3:GF:396:HIS:CD2	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:GE:423:GLU:HA	4:GE:426:ALA:HB3	1.83	0.60
3:GL:311:LEU:O	3:GL:348:ASN:ND2	2.34	0.60
15:H2:216:LYS:HE2	15:H2:219:SER:H	1.66	0.60
3:HD:192:LEU:HD21	3:HD:199:THR:HG21	1.83	0.60
3:HF:247:ASN:HB3	3:HF:252:LYS:HG2	1.82	0.60
4:HI:427:ALA:HA	4:HI:430:LYS:HG2	1.84	0.60
3:HJ:249:ASP:HB3	3:HJ:252:LYS:HB2	1.84	0.60
4:HK:7:ILE:N	4:HK:136:LEU:O	2.25	0.60
16:I:116:GLU:OE1	20:L:44:ARG:NH1	2.34	0.60
16:I:180:HIS:HB3	4:KE:357:TYR:CE1	2.37	0.60
4:IC:22:GLU:O	4:IC:26:LEU:HD23	2.02	0.60
4:II:320:ARG:N	4:II:374:ALA:O	2.34	0.60
4:IM:362:VAL:HA	4:IM:368:LEU:HD11	1.82	0.60
19:J1:143:ARG:NH1	19:J1:144:PRO:O	2.35	0.60
4:JA:396:ASP:OD1	4:JA:397:LEU:N	2.34	0.60
3:JB:111:GLU:HG2	3:JB:112:LEU:HD12	1.84	0.60
4:JE:396:ASP:OD1	4:JE:397:LEU:N	2.34	0.60
3:JH:33:THR:O	3:JH:58:LYS:NZ	2.35	0.60
3:JL:372:THR:HB	3:JL:375:GLN:HE22	1.65	0.60
4:KA:139:HIS:CE1	4:KA:168:GLU:HB3	2.37	0.60
3:KB:216:LYS:O	3:KB:276:ARG:NH2	2.35	0.60
3:KF:385:PHE:HA	3:KF:388:MET:HE2	1.84	0.60
22:L2:146:ILE:HD11	4:MG:386:GLU:HA	1.83	0.60
4:LG:67:PHE:O	4:LG:93:ILE:N	2.34	0.60
4:LI:1:MET:N	4:LI:130:THR:OG1	2.33	0.60
3:LL:173:PRO:O	3:LL:380:ARG:NH2	2.34	0.60
3:LL:250:LEU:O	3:LL:254:ALA:N	2.28	0.60
3:MB:101:TRP:HB2	3:MB:184:ASN:HD22	1.67	0.60
3:MF:52:ASN:OD1	3:MF:62:ARG:NH1	2.34	0.60
3:MF:156:ARG:NH1	3:MF:195:ASN:O	2.34	0.60
3:MJ:111:GLU:HG2	3:MJ:112:LEU:HD12	1.84	0.60
3:MJ:239:CYS:SG	3:MJ:248:ALA:HA	2.42	0.60
4:MK:102:ASN:ND2	4:MK:411:GLU:OE2	2.32	0.60
3:ML:420:SER:O	3:ML:424:GLN:N	2.33	0.60
4:MM:423:GLU:HA	4:MM:426:ALA:HB3	1.84	0.60
3:NJ:317:PHE:O	3:NJ:354:CYS:N	2.32	0.60
3:OB:317:PHE:O	3:OB:354:CYS:N	2.28	0.60
3:OF:302:ALA:HB1	3:OF:377:LEU:HD11	1.83	0.60
3:OL:60:VAL:HG23	3:OL:86:ARG:HH11	1.66	0.60
3:OL:152:ILE:HD12	3:OL:155:ILE:HD11	1.84	0.60
3:OL:302:ALA:HB1	3:OL:377:LEU:HD11	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:PC:419:SER:HA	4:PC:422:ARG:HE	1.65	0.60
4:PE:332:ILE:HA	4:PE:335:ILE:HD12	1.82	0.60
3:PF:316:VAL:HG22	3:PF:352:ALA:HB3	1.83	0.60
3:PJ:211:CYS:HA	3:PJ:215:LEU:HB2	1.83	0.60
4:PK:127:ASP:OD1	4:PK:128:LEU:N	2.35	0.60
4:QG:272:TYR:CZ	4:QG:274:PRO:HG2	2.37	0.60
3:QH:84:ILE:O	3:QH:86:ARG:NH1	2.34	0.60
3:QJ:46:ARG:HH22	4:QK:73:THR:HA	1.66	0.60
3:QJ:107:THR:OG1	3:QJ:401:GLU:OE2	2.18	0.60
4:RC:396:ASP:OD1	4:RC:397:LEU:N	2.35	0.60
3:RJ:372:THR:HB	3:RJ:375:GLN:HE22	1.65	0.60
3:RL:170:VAL:N	3:RL:202:ILE:O	2.33	0.60
4:RM:192:HIS:HA	4:RM:195:LEU:HD23	1.83	0.60
32:S:401:ARG:HD2	32:S:404:ARG:HB2	1.84	0.60
3:SD:52:ASN:OD1	3:SD:62:ARG:NH1	2.35	0.60
4:SE:1:MET:O	4:SE:131:GLY:HA3	2.02	0.60
4:SI:188:ILE:HD11	4:SI:425:LEU:HB2	1.82	0.60
3:SL:415:MET:O	3:SL:419:VAL:N	2.29	0.60
3:TD:131:GLN:HB3	3:TD:163:ILE:HD12	1.83	0.60
4:TE:91:GLN:HG3	4:TE:121:ARG:HH21	1.66	0.60
3:TF:4:ILE:HD11	3:TF:131:GLN:HB2	1.84	0.60
4:TG:438:ASP:OD1	3:TH:391:ARG:NH1	2.34	0.60
3:TH:302:ALA:HB1	3:TH:377:LEU:HD11	1.84	0.60
3:TL:378:PHE:HE1	3:TL:379:LYS:HZ2	1.50	0.60
3:TN:7:LEU:HB2	3:TN:135:LEU:HG	1.82	0.60
3:UF:295:ASP:HB2	3:UF:298:ASN:HB2	1.83	0.60
3:UJ:84:ILE:O	3:UJ:86:ARG:NH1	2.35	0.60
4:UK:273:ALA:HB2	4:UK:295:CYS:HB3	1.84	0.60
4:VA:207:GLU:HB2	4:VA:304:LYS:HZ1	1.67	0.60
3:VH:12:CYS:SG	3:VH:13:GLY:N	2.75	0.60
4:WA:236:SER:O	4:WA:243:ARG:NH2	2.32	0.60
4:WC:50:ASN:O	4:WC:64:ARG:NH1	2.35	0.60
4:WE:427:ALA:HA	4:WE:430:LYS:HG2	1.84	0.60
3:WF:173:PRO:O	3:WF:380:ARG:NH2	2.34	0.60
39:WF:501:GTP:O3G	39:WF:501:GTP:O3'	2.13	0.60
3:WJ:211:CYS:HA	3:WJ:215:LEU:HB2	1.84	0.60
4:WK:3:GLU:CD	4:WK:131:GLY:H	2.10	0.60
34:XF:40:ASN:OD1	34:XF:41:ASP:N	2.34	0.60
35:XM:141:LEU:HB3	35:XM:180:ILE:HD13	1.83	0.60
37:YR:80:CYS:HA	37:YR:83:PHE:CD2	2.37	0.60
37:YT:20:GLN:NE2	37:YT:21:GLN:HG3	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:YT:161:LYS:HG3	37:YT:162:VAL:HG23	1.84	0.60
4:AG:68:VAL:HG12	4:AG:93:ILE:HB	1.83	0.60
4:AG:104:ALA:O	4:AG:108:TYR:N	2.35	0.60
4:AK:207:GLU:HB2	4:AK:304:LYS:HZ1	1.67	0.60
3:AL:70:PRO:HA	3:AL:73:MET:HE3	1.83	0.60
5:B3:302:GLU:HG2	5:B3:306:ARG:HH22	1.67	0.60
3:BD:12:CYS:HA	39:BD:501:GTP:N2	2.15	0.60
3:BH:74:ASP:O	14:G5:322:LYS:NZ	2.34	0.60
3:BL:357:PRO:HB3	3:BL:362:LYS:HA	1.82	0.60
7:C3:178:LYS:HA	7:C3:181:LEU:HD12	1.83	0.60
7:C4:309:LEU:HD23	7:C4:312:GLN:HE22	1.67	0.60
7:C6:144:GLN:OE1	7:C6:145:ASN:ND2	2.34	0.60
7:C7:281:VAL:HG12	7:C8:398:THR:HG21	1.82	0.60
4:CC:245:ASP:O	4:CC:356:ASN:ND2	2.34	0.60
3:CD:322:SER:N	3:CD:325:GLU:OE2	2.34	0.60
3:CD:412:GLU:OE1	3:CD:416:ASN:ND2	2.33	0.60
3:CF:324:LYS:HD2	4:CG:221:ARG:HA	1.84	0.60
3:CH:258:VAL:HG23	3:CH:263:LEU:HB2	1.83	0.60
3:CJ:131:GLN:HB3	3:CJ:163:ILE:HD12	1.84	0.60
3:CJ:240:LEU:HA	3:CJ:248:ALA:HB1	1.83	0.60
4:CM:1:MET:SD	4:CM:2:ARG:N	2.74	0.60
4:CM:79:ARG:NH2	15:H6:221:TYR:HA	2.17	0.60
3:DF:324:LYS:HD2	4:DG:221:ARG:HA	1.84	0.60
3:DJ:132:GLY:HA3	3:DJ:163:ILE:H	1.66	0.60
3:DJ:309:ARG:HE	3:DJ:426:GLN:HE21	1.47	0.60
3:DL:250:LEU:O	3:DL:254:ALA:N	2.30	0.60
3:EB:70:PRO:HA	3:EB:73:MET:HE2	1.83	0.60
3:ED:372:THR:HG21	3:ED:426:GLN:HG3	1.83	0.60
3:EF:186:THR:HA	3:EF:189:VAL:HG12	1.82	0.60
3:EJ:60:VAL:HG23	3:EJ:86:ARG:HH11	1.66	0.60
3:EJ:134:GLN:HB2	3:EJ:167:PHE:HE1	1.65	0.60
11:F3:218:GLU:N	11:F3:335:GLN:HE22	2.00	0.60
11:F5:163:LEU:HD21	11:F5:250:LEU:HD13	1.84	0.60
11:F8:435:ARG:HA	11:F8:438:GLN:OE1	2.01	0.60
4:FE:33:ASP:OD1	4:FE:34:GLY:N	2.35	0.60
3:FF:385:PHE:HZ	3:FF:408:PHE:HB3	1.66	0.60
11:Fa:418:ASN:HA	11:Fa:421:PHE:CE2	2.37	0.60
11:Fe:149:LEU:HD21	11:Fe:261:GLN:HA	1.83	0.60
11:Fg:241:ARG:HA	11:Fg:244:ARG:HE	1.67	0.60
11:Fj:159:GLU:OE1	11:Fj:162:ARG:NH2	2.33	0.60
11:Fm:236:ILE:HA	11:Fm:239:GLN:HB2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Fm:385:LYS:HD2	11:Fm:427:LEU:HD22	1.83	0.60
14:G5:354:CYS:HB2	14:G5:376:ILE:HB	1.84	0.60
3:GF:7:LEU:HB2	3:GF:135:LEU:HG	1.84	0.60
3:GL:28:HIS:O	3:GL:43:GLN:NE2	2.35	0.60
15:H2:302:ASN:HA	15:H2:305:ARG:HG2	1.84	0.60
3:HB:246:LEU:HB2	3:HB:352:ALA:HB1	1.83	0.60
3:HH:156:ARG:NH1	3:HH:195:ASN:O	2.35	0.60
3:HJ:324:LYS:NZ	4:HK:222:PRO:O	2.22	0.60
4:HK:154:MET:HE1	4:HK:197:HIS:HB2	1.82	0.60
4:IG:1:MET:O	4:IG:133:GLN:NE2	2.33	0.60
3:IH:170:VAL:N	3:IH:202:ILE:O	2.33	0.60
4:II:245:ASP:O	4:II:356:ASN:ND2	2.34	0.60
4:IK:216:ASN:ND2	4:IK:275:VAL:O	2.35	0.60
19:J2:133:THR:HA	19:J2:136:LYS:HE3	1.83	0.60
19:J3:114:THR:HG23	19:J3:152:LEU:HD11	1.82	0.60
3:JD:11:GLN:HG3	39:JD:501:GTP:PA	2.42	0.60
3:JJ:139:LEU:HD21	3:JJ:170:VAL:HG22	1.83	0.60
4:JK:264:ARG:O	4:JK:266:HIS:ND1	2.31	0.60
3:JL:278:SER:HA	3:JL:281:TYR:HB2	1.84	0.60
20:K:110:ILE:HG23	20:K:111:PRO:HD3	1.83	0.60
21:K1:368:ASN:HA	21:K1:371:MET:HE3	1.82	0.60
21:K4:147:ILE:HG12	21:K4:304:LEU:HD11	1.84	0.60
3:KD:211:CYS:HA	3:KD:215:LEU:HB2	1.84	0.60
3:KD:372:THR:HG21	3:KD:426:GLN:HG3	1.84	0.60
3:KH:2:ARG:HA	3:KH:129:CYS:O	2.02	0.60
4:KK:32:PRO:O	4:KK:85:GLN:NE2	2.34	0.60
4:LA:49:PHE:HB2	4:LA:53:PHE:HB2	1.83	0.60
4:LA:254:GLU:OE1	4:LA:254:GLU:N	2.33	0.60
3:LH:111:GLU:HG2	3:LH:112:LEU:HD12	1.84	0.60
4:LI:236:SER:O	4:LI:243:ARG:NH2	2.31	0.60
4:LI:316:CYS:N	4:LI:378:LEU:O	2.28	0.60
3:MD:292:GLN:O	3:MD:298:ASN:ND2	2.35	0.60
3:MD:317:PHE:O	3:MD:354:CYS:N	2.28	0.60
3:MJ:347:ASN:HB3	4:MK:178:SER:HB3	1.84	0.60
4:MK:46:ASP:HA	4:MK:50:ASN:HB3	1.84	0.60
4:MK:434:GLU:OE1	28:O3:48:HIS:NE2	2.35	0.60
3:ML:134:GLN:HG2	3:ML:167:PHE:HE2	1.66	0.60
3:ML:328:GLU:O	3:ML:332:ASN:N	2.21	0.60
4:MM:370:LYS:HZ1	27:P:40:ASP:HA	1.65	0.60
3:NB:183:TYR:CZ	3:NB:388:MET:HG3	2.37	0.60
4:NC:192:HIS:HA	4:NC:195:LEU:HD23	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ND:292:GLN:O	3:ND:298:ASN:ND2	2.35	0.60
3:NF:317:PHE:O	3:NF:354:CYS:N	2.32	0.60
4:NG:46:ASP:OD1	4:NG:50:ASN:ND2	2.34	0.60
3:NJ:141:GLY:HA3	39:NJ:501:GTP:H5"	1.83	0.60
4:NK:53:PHE:O	4:NK:64:ARG:NH1	2.34	0.60
4:OG:390:ARG:HA	4:OG:393:HIS:HE1	1.65	0.60
4:OI:205:ASP:OD2	4:OI:304:LYS:NZ	2.33	0.60
3:OJ:84:ILE:O	3:OJ:86:ARG:NH1	2.34	0.60
3:OL:273:LEU:H	3:OL:292:GLN:HE22	1.50	0.60
29:P1:442:ARG:HG2	29:P1:456:ALA:HA	1.84	0.60
3:PD:405:GLU:OE1	3:PD:405:GLU:N	2.32	0.60
4:PE:102:ASN:HB3	4:PE:105:ARG:HB2	1.84	0.60
30:Q3:1452:ARG:NH1	30:Q3:1456:ARG:HB2	2.17	0.60
4:QE:203:MET:HE1	4:QE:267:PHE:HB3	1.82	0.60
4:QI:154:MET:HE3	4:QI:194:THR:HG22	1.83	0.60
4:RK:67:PHE:HB2	4:RK:92:LEU:HD13	1.84	0.60
4:RM:12:ALA:HB1	39:RM:501:GTP:C2	2.37	0.60
4:SK:245:ASP:O	4:SK:356:ASN:ND2	2.34	0.60
3:SL:132:GLY:HA2	3:SL:162:ARG:HB3	1.82	0.60
4:SM:53:PHE:O	4:SM:64:ARG:NH1	2.35	0.60
3:TF:77:ARG:O	3:TF:77:ARG:NH1	2.31	0.60
4:TG:9:VAL:HG11	4:TG:150:ALA:HB2	1.84	0.60
3:TH:322:SER:OG	3:TH:324:LYS:NZ	2.34	0.60
3:TJ:39:ASP:OD1	3:TJ:43:GLN:NE2	2.35	0.60
4:TK:204:VAL:HG23	4:TK:302:MET:HG3	1.83	0.60
3:TL:111:GLU:HG2	3:TL:112:LEU:HD12	1.84	0.60
3:TL:235:GLY:O	3:TL:238:THR:OG1	2.17	0.60
3:TN:68:LEU:HD12	3:TN:97:ALA:HB2	1.82	0.60
3:TN:164:MET:HE3	3:TN:164:MET:HA	1.84	0.60
4:UC:12:ALA:O	39:UC:501:GTP:N1	2.35	0.60
4:UE:98:ASP:O	4:UE:105:ARG:NH2	2.25	0.60
4:UE:205:ASP:OD2	4:UE:304:LYS:NZ	2.31	0.60
4:UK:5:ILE:HD13	4:UK:64:ARG:HB3	1.82	0.60
4:VC:6:SER:HA	4:VC:136:LEU:HB2	1.84	0.60
3:VD:133:PHE:CE1	3:VD:164:MET:HA	2.37	0.60
4:VE:278:ALA:O	4:VE:370:LYS:NZ	2.34	0.60
3:VH:357:PRO:HB3	3:VH:362:LYS:HA	1.83	0.60
4:WG:67:PHE:HB2	4:WG:92:LEU:HD13	1.84	0.60
3:WJ:269:GLY:HA2	3:WJ:300:MET:HE1	1.83	0.60
3:WL:412:GLU:OE1	3:WL:416:ASN:ND2	2.35	0.60
34:XA:60:THR:HG23	34:XA:155:GLN:HB2	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:YC:112:SER:HA	37:YC:135:GLY:HA3	1.84	0.60
37:YE:125:LEU:HD13	37:YE:134:TYR:HB3	1.83	0.60
37:YP:127:CYS:O	37:YP:131:ARG:NH1	2.35	0.60
37:YU:14:LYS:O	37:YU:18:PHE:N	2.33	0.60
37:YU:130:ALA:HA	37:YU:134:TYR:HB2	1.83	0.60
1:A:56:PHE:HA	18:J:70:TRP:CZ3	2.37	0.59
3:AD:412:GLU:OE1	3:AD:416:ASN:ND2	2.35	0.59
4:AG:33:ASP:OD1	4:AG:34:GLY:N	2.35	0.59
4:AG:52:PHE:HZ	4:AG:239:THR:HB	1.66	0.59
4:AI:216:ASN:ND2	4:AI:275:VAL:O	2.35	0.59
3:AJ:84:ILE:O	3:AJ:86:ARG:NH1	2.33	0.59
4:AK:254:GLU:N	4:AK:254:GLU:OE1	2.33	0.59
5:B2:12:TYR:CE2	5:B2:17:TRP:HB2	2.37	0.59
5:B2:120:ARG:HH21	5:B2:386:LEU:HB3	1.67	0.59
5:B8:200:SER:HA	5:B9:312:LYS:NZ	2.16	0.59
3:BF:385:PHE:HA	3:BF:388:MET:HE2	1.84	0.59
3:BL:28:HIS:ND1	3:BL:43:GLN:HB2	2.16	0.59
4:BM:50:ASN:O	4:BM:64:ARG:NH1	2.34	0.59
7:C2:198:CYS:SG	7:C2:477:ARG:NH1	2.75	0.59
7:C2:246:SER:HA	11:Fk:235:ARG:NH1	2.17	0.59
7:C3:365:LEU:HB2	7:C3:455:LEU:HD22	1.83	0.59
7:C6:323:GLU:O	7:C6:327:ASN:ND2	2.35	0.59
7:C9:414:ASP:H	7:C9:417:GLN:HE21	1.50	0.59
4:CC:192:HIS:HA	4:CC:195:LEU:HD23	1.83	0.59
3:CD:132:GLY:HA3	3:CD:163:ILE:H	1.68	0.59
3:CD:309:ARG:HE	3:CD:426:GLN:HE21	1.49	0.59
4:CI:67:PHE:HB2	4:CI:92:LEU:HD23	1.83	0.59
3:CJ:317:PHE:HB3	3:CJ:321:MET:HE3	1.84	0.59
8:D7:360:ARG:HH12	8:D7:366:VAL:HG21	1.66	0.59
8:D9:406:GLU:HA	8:D9:409:ARG:HG2	1.84	0.59
3:DB:4:ILE:HD11	3:DB:131:GLN:HB2	1.83	0.59
3:DD:134:GLN:HB2	3:DD:167:PHE:CE2	2.30	0.59
3:DF:293:MET:HE3	3:DF:367:PHE:HB2	1.84	0.59
4:DG:396:ASP:OD1	4:DG:397:LEU:N	2.35	0.59
4:DK:301:GLN:HG3	4:DK:303:VAL:H	1.67	0.59
3:EF:5:VAL:HG23	3:EF:130:LEU:HD21	1.84	0.59
11:F6:175:ARG:NH1	11:F6:178:GLU:OE2	2.35	0.59
11:F6:217:ARG:HH21	11:F6:335:GLN:HE22	1.49	0.59
4:FA:91:GLN:HG3	4:FA:121:ARG:HH21	1.67	0.59
4:FK:205:ASP:OD2	4:FK:304:LYS:NZ	2.24	0.59
11:Fa:412:PRO:HA	11:Fa:415:ARG:NE	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Ff:171:ASP:HB3	11:Ff:175:ARG:HH12	1.67	0.59
14:G5:42:GLY:H	14:G5:46:ASP:H	1.49	0.59
14:G6:654:PRO:HA	14:G6:687:GLN:HG2	1.84	0.59
3:GF:81:PHE:HD1	3:GF:84:ILE:HD12	1.66	0.59
3:GJ:172:SER:OG	3:GJ:205:GLU:OE2	2.17	0.59
4:GK:203:MET:N	4:GK:203:MET:SD	2.74	0.59
15:H2:290:PRO:O	15:H2:315:ARG:NH1	2.34	0.59
4:HI:262:TYR:OH	3:HJ:391:ARG:O	2.19	0.59
3:HJ:131:GLN:HB3	3:HJ:163:ILE:HD12	1.83	0.59
3:HJ:216:LYS:O	3:HJ:276:ARG:NH2	2.34	0.59
4:HK:172:TYR:N	4:HK:204:VAL:O	2.31	0.59
3:ID:324:LYS:NZ	4:IE:222:PRO:O	2.26	0.59
3:IF:175:VAL:HG22	3:IF:177:ASP:H	1.67	0.59
4:II:187:SER:O	4:II:190:THR:OG1	2.18	0.59
3:IJ:321:MET:HE3	3:IJ:363:MET:SD	2.42	0.59
4:JA:316:CYS:HB3	4:JA:378:LEU:HB3	1.83	0.59
3:JB:317:PHE:O	3:JB:354:CYS:N	2.32	0.59
4:JC:12:ALA:O	39:JC:501:GTP:N1	2.34	0.59
4:JE:30:ILE:HA	4:JE:36:MET:HE1	1.83	0.59
4:JE:208:ALA:N	4:JE:304:LYS:HZ1	1.98	0.59
4:JI:144:GLY:N	39:JI:501:GTP:O2B	2.34	0.59
3:JJ:324:LYS:HE2	4:JK:222:PRO:HD2	1.83	0.59
3:JL:84:ILE:O	3:JL:86:ARG:NH1	2.35	0.59
20:K:79:LEU:HD11	20:K:263:PRO:HG2	1.84	0.59
21:K1:441:ASP:O	21:K1:445:TRP:N	2.31	0.59
4:KA:36:MET:O	32:S:377:ARG:NH2	2.34	0.59
4:KA:53:PHE:O	4:KA:64:ARG:NH1	2.34	0.59
4:KA:207:GLU:HB2	4:KA:304:LYS:HZ1	1.66	0.59
3:KD:378:PHE:CD1	3:KD:419:VAL:HG22	2.37	0.59
3:LB:197:ASP:OD1	3:LB:198:GLU:N	2.35	0.59
3:LB:299:MET:SD	3:LB:301:ALA:N	2.72	0.59
3:LB:311:LEU:HD11	3:LB:372:THR:HG23	1.83	0.59
4:LC:35:GLN:HE22	4:LC:42:ILE:HD11	1.66	0.59
4:LC:210:TYR:OH	4:LC:221:ARG:NH2	2.35	0.59
3:LD:84:ILE:O	3:LD:86:ARG:NH1	2.34	0.59
3:LF:170:VAL:N	3:LF:202:ILE:O	2.35	0.59
3:LH:269:GLY:HA2	3:LH:300:MET:HE1	1.83	0.59
3:LH:309:ARG:H	3:LH:372:THR:HG1	1.49	0.59
4:LK:203:MET:N	4:LK:203:MET:SD	2.70	0.59
4:MG:264:ARG:O	4:MG:266:HIS:ND1	2.34	0.59
4:MG:339:ARG:HD2	28:O2:25:ALA:HA	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MG:435:VAL:HG13	28:O2:46:ARG:CZ	2.33	0.59
4:MK:54:SER:HB2	4:MK:62:VAL:HB	1.83	0.59
4:MK:321:GLY:N	4:MK:356:ASN:O	2.26	0.59
3:ML:332:ASN:O	3:ML:336:LYS:N	2.27	0.59
3:ND:324:LYS:NZ	4:NE:222:PRO:O	2.23	0.59
4:NE:171:ILE:HD12	4:NE:204:VAL:HG13	1.83	0.59
3:NF:178:THR:HB	3:NF:181:GLU:HG3	1.83	0.59
4:OE:214:ARG:NH1	4:OE:215:ARG:HG3	2.17	0.59
3:OF:170:VAL:N	3:OF:202:ILE:O	2.29	0.59
4:OI:346:TRP:HB3	3:OJ:391:ARG:NE	2.17	0.59
27:P:221:VAL:HA	27:P:224:LEU:HD12	1.84	0.59
29:P2:261:MET:HG2	30:Q2:1501:LEU:CD1	2.32	0.59
4:PE:264:ARG:O	4:PE:266:HIS:ND1	2.35	0.59
3:PF:39:ASP:OD1	3:PF:43:GLN:NE2	2.35	0.59
3:PF:267:MET:O	3:PF:369:GLY:N	2.33	0.59
4:PG:358:GLN:NE2	4:PG:359:PRO:O	2.33	0.59
4:PK:168:GLU:HB2	4:PK:201:ALA:HA	1.82	0.59
30:Q3:1387:ASP:HB2	30:Q3:1392:GLY:HA2	1.84	0.59
4:QC:144:GLY:N	39:QC:501:GTP:O2B	2.35	0.59
4:QC:396:ASP:OD1	4:QC:397:LEU:N	2.35	0.59
4:QG:142:GLY:HA2	4:QG:183:GLU:HG2	1.84	0.59
4:QK:67:PHE:HB2	4:QK:92:LEU:HD13	1.83	0.59
3:QL:13:GLY:HA2	3:QL:16:ILE:HB	1.82	0.59
3:QL:84:ILE:O	3:QL:86:ARG:NH1	2.35	0.59
31:R3:280:TYR:O	31:R3:282:HIS:ND1	2.35	0.59
4:RC:83:TYR:HB3	4:RC:86:LEU:HD12	1.84	0.59
3:RF:323:MET:SD	3:RF:323:MET:N	2.71	0.59
3:RH:250:LEU:O	3:RH:254:ALA:N	2.29	0.59
3:RJ:311:LEU:HD23	3:RJ:342:VAL:HG11	1.83	0.59
4:RK:154:MET:HE1	4:RK:197:HIS:HB2	1.84	0.59
3:RL:141:GLY:HA3	39:RL:501:GTP:H5"	1.83	0.59
4:RM:256:GLN:O	4:RM:260:VAL:HG12	2.02	0.59
3:SB:309:ARG:HE	3:SB:426:GLN:HE21	1.50	0.59
4:SE:67:PHE:HB2	4:SE:92:LEU:HD13	1.84	0.59
3:SH:132:GLY:HA2	3:SH:162:ARG:HB3	1.83	0.59
3:SL:155:ILE:HA	3:SL:158:GLU:HB2	1.84	0.59
4:TG:358:GLN:NE2	4:TG:359:PRO:O	2.31	0.59
3:TH:4:ILE:HD11	3:TH:131:GLN:HB2	1.83	0.59
3:TJ:372:THR:HG21	3:TJ:426:GLN:HG3	1.84	0.59
3:TL:12:CYS:HB3	39:TL:501:GTP:O4'	2.01	0.59
3:TL:317:PHE:HB3	3:TL:321:MET:HE3	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:TM:338:LYS:HZ2	4:TM:340:THR:H	1.50	0.59
3:UB:77:ARG:O	3:UB:77:ARG:NH1	2.32	0.59
3:UF:328:GLU:OE1	3:UF:332:ASN:ND2	2.34	0.59
3:UH:316:VAL:HG22	3:UH:352:ALA:HB3	1.81	0.59
33:V:506:GLU:O	33:V:510:ARG:N	2.24	0.59
4:VI:6:SER:HA	4:VI:136:LEU:HB2	1.83	0.59
3:WH:7:LEU:HB2	3:WH:135:LEU:HG	1.84	0.59
4:WI:273:ALA:HB2	4:WI:295:CYS:HB3	1.82	0.59
3:WL:84:ILE:O	3:WL:86:ARG:NH1	2.33	0.59
33:X:389:LEU:HA	33:X:392:LYS:HE2	1.84	0.59
35:XH:177:ILE:HG13	35:XH:178:LEU:HD12	1.82	0.59
2:A1:367:ARG:HH11	14:G4:182:GLY:HA2	1.65	0.59
3:AF:28:HIS:CD2	3:AF:43:GLN:HB2	2.37	0.59
4:AI:264:ARG:O	4:AI:266:HIS:ND1	2.35	0.59
5:B6:7:LYS:CD	8:D8:326:LEU:HG	2.32	0.59
5:B6:82:LEU:HA	5:B6:85:LEU:HD12	1.84	0.59
5:B6:272:MET:HB3	5:B6:380:LYS:NZ	2.18	0.59
5:B6:302:GLU:HG2	5:B6:306:ARG:HH22	1.66	0.59
5:B8:45:LEU:HA	19:J1:97:ARG:NH1	2.17	0.59
3:BD:28:HIS:ND1	3:BD:43:GLN:HB2	2.17	0.59
4:BE:371:VAL:HG11	4:BE:374:ALA:HB2	1.84	0.59
3:BJ:392:LYS:HB2	3:BJ:395:LEU:HD13	1.83	0.59
4:BK:127:ASP:OD1	4:BK:128:LEU:N	2.35	0.59
7:C2:276:ASN:HA	7:C3:395:VAL:HG11	1.84	0.59
7:C3:414:ASP:N	7:C3:417:GLN:OE1	2.27	0.59
4:CG:1:MET:O	4:CG:131:GLY:HA3	2.03	0.59
4:CG:207:GLU:HB2	4:CG:304:LYS:HZ1	1.66	0.59
3:CL:309:ARG:H	3:CL:372:THR:HG1	1.50	0.59
6:D:217:THR:HG1	6:D:221:ARG:HE	1.48	0.59
6:D:262:ILE:O	6:D:374:HIS:N	2.34	0.59
8:D3:276:VAL:HG12	8:D3:280:LYS:HZ2	1.67	0.59
8:D7:402:LEU:HA	8:D7:405:LEU:HD12	1.85	0.59
4:DA:316:CYS:N	4:DA:378:LEU:O	2.35	0.59
3:DB:32:PRO:O	3:DB:83:GLN:NE2	2.28	0.59
3:DF:235:GLY:O	3:DF:238:THR:OG1	2.20	0.59
4:DI:401:LYS:C	4:DI:402:ARG:HD3	2.27	0.59
3:DJ:150:LEU:O	3:DJ:153:SER:OG	2.18	0.59
3:DJ:178:THR:HB	3:DJ:181:GLU:HB2	1.84	0.59
4:EI:224:TYR:CE2	39:EI:501:GTP:C5	2.87	0.59
4:EK:34:GLY:HA2	4:EK:86:LEU:HD21	1.84	0.59
11:F3:334:LYS:O	11:F3:337:THR:OG1	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:F3:357:LEU:HD22	11:F3:455:LEU:HD13	1.84	0.59
11:F8:198:ARG:HE	11:F8:211:VAL:HG21	1.66	0.59
4:FA:104:ALA:HB1	4:FA:413:MET:HE3	1.84	0.59
3:FF:12:CYS:HA	39:FF:501:GTP:N2	2.17	0.59
3:FH:250:LEU:O	3:FH:254:ALA:N	2.29	0.59
3:FJ:289:LEU:HD21	3:FJ:363:MET:HB3	1.84	0.59
3:FJ:306:ARG:NE	3:FJ:306:ARG:O	2.35	0.59
3:FL:372:THR:HG21	3:FL:426:GLN:HG3	1.84	0.59
11:Fl:382:ILE:HG23	11:Fl:385:LYS:HE3	1.83	0.59
14:G6:26:TRP:HA	14:G6:35:LEU:HA	1.83	0.59
4:GC:245:ASP:O	4:GC:356:ASN:ND2	2.35	0.59
4:GG:229:ARG:HH22	4:GG:367:ASP:HB2	1.67	0.59
3:GH:166:THR:OG1	3:GH:198:GLU:O	2.19	0.59
15:H3:295:ASN:OD1	15:H3:306:ARG:NH2	2.35	0.59
15:H4:246:ASP:OD1	15:H4:247:PHE:N	2.36	0.59
4:HA:42:ILE:HG21	4:HA:59:GLY:HA2	1.83	0.59
3:HD:372:THR:HB	3:HD:375:GLN:HE22	1.66	0.59
4:HE:108:TYR:O	4:HE:112:LYS:NZ	2.34	0.59
3:HJ:117:LEU:HA	3:HJ:120:VAL:HG22	1.84	0.59
4:HK:203:MET:HE1	4:HK:267:PHE:HB3	1.82	0.59
4:HK:208:ALA:H	4:HK:304:LYS:NZ	2.00	0.59
3:IB:54:ALA:HB3	3:IB:58:LYS:HB3	1.85	0.59
4:IC:346:TRP:HE1	3:ID:391:ARG:HH11	1.50	0.59
4:IE:6:SER:HA	4:IE:136:LEU:HB2	1.83	0.59
4:IE:319:TYR:HB2	4:IE:355:ILE:HD13	1.84	0.59
3:IF:249:ASP:HB3	3:IF:252:LYS:HG2	1.83	0.59
3:IJ:193:VAL:O	3:IJ:262:ARG:NH2	2.34	0.59
3:JB:419:VAL:HG12	3:JB:423:GLN:HE22	1.67	0.59
4:JE:53:PHE:O	4:JE:64:ARG:NH1	2.35	0.59
3:JF:406:MET:HE1	3:NF:304:ASP:HB3	1.84	0.59
4:JG:401:LYS:C	4:JG:402:ARG:HD3	2.26	0.59
4:JI:32:PRO:O	4:JI:85:GLN:NE2	2.36	0.59
4:KA:388:TRP:HB3	4:KA:425:LEU:HD11	1.83	0.59
3:KB:322:SER:OG	3:KB:324:LYS:NZ	2.34	0.59
4:KC:89:PRO:HD2	4:LC:280:LYS:HZ3	1.66	0.59
3:KF:141:GLY:HA3	39:KF:501:GTP:H5"	1.83	0.59
22:L2:157:TYR:O	22:L2:161:ARG:N	2.32	0.59
4:LA:144:GLY:N	39:LA:501:GTP:O2B	2.34	0.59
3:LB:372:THR:HG21	3:LB:426:GLN:HG3	1.84	0.59
4:LE:262:TYR:OH	3:LF:391:ARG:O	2.20	0.59
3:LF:282:ARG:NH2	3:LF:292:GLN:OE1	2.29	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MD:309:ARG:O	3:MD:371:SER:OG	2.16	0.59
4:ME:154:MET:HE3	4:ME:194:THR:HG22	1.84	0.59
3:MF:278:SER:HA	3:MF:281:TYR:HB2	1.83	0.59
3:ML:307:HIS:NE2	28:O3:9:GLN:OE1	2.35	0.59
4:NA:245:ASP:O	4:NA:356:ASN:ND2	2.35	0.59
4:NC:102:ASN:ND2	4:NC:411:GLU:OE2	2.34	0.59
4:NI:67:PHE:HB2	4:NI:92:LEU:HD13	1.83	0.59
4:NI:154:MET:HE1	4:NI:197:HIS:HB2	1.82	0.59
4:OE:127:ASP:OD1	4:OE:128:LEU:N	2.35	0.59
4:OI:101:ASN:HA	4:OI:144:GLY:HA2	1.83	0.59
29:P3:15:GLU:HG3	29:P3:615:LYS:HD3	1.85	0.59
29:P3:442:ARG:HG2	29:P3:456:ALA:HA	1.84	0.59
4:PA:205:ASP:OD2	4:PA:304:LYS:NZ	2.30	0.59
4:PA:288:VAL:HG21	4:PA:328:VAL:HG12	1.84	0.59
4:PC:319:TYR:N	4:PC:354:GLY:O	2.34	0.59
3:PD:28:HIS:ND1	3:PD:43:GLN:HB2	2.18	0.59
3:PD:182:PRO:HB2	3:PD:388:MET:HE1	1.83	0.59
4:PG:272:TYR:CZ	4:PG:274:PRO:HG2	2.37	0.59
30:Q2:1490:PHE:O	30:Q2:1494:LEU:HG	2.02	0.59
4:QE:171:ILE:HD12	4:QE:204:VAL:HG13	1.83	0.59
4:QE:396:ASP:OD1	4:QE:397:LEU:N	2.35	0.59
4:QG:172:TYR:HB2	4:QG:203:MET:HG3	1.84	0.59
3:QH:323:MET:SD	3:QH:324:LYS:NZ	2.65	0.59
3:QJ:234:SER:O	3:QJ:238:THR:HG23	2.02	0.59
4:QK:79:ARG:HH22	4:QK:94:THR:HB	1.66	0.59
3:RB:114:ASP:OD1	3:RB:115:SER:N	2.36	0.59
3:RB:300:MET:SD	3:RB:300:MET:N	2.74	0.59
3:RD:375:GLN:HA	3:RD:378:PHE:CZ	2.37	0.59
3:RL:322:SER:N	3:RL:325:GLU:OE2	2.34	0.59
3:SF:398:TYR:HB3	3:SF:403:MET:HB2	1.82	0.59
3:SJ:68:LEU:HD12	3:SJ:97:ALA:HB2	1.84	0.59
3:TB:4:ILE:HD11	3:TB:131:GLN:HB2	1.84	0.59
3:TB:84:ILE:O	3:TB:86:ARG:NH1	2.35	0.59
3:TD:324:LYS:HD2	4:TE:221:ARG:HA	1.84	0.59
4:TE:358:GLN:NE2	4:TE:359:PRO:O	2.35	0.59
3:TL:33:THR:O	3:TL:58:LYS:NZ	2.35	0.59
33:U:274:LEU:HG	33:U:278:HIS:HE1	1.67	0.59
4:UA:223:THR:OG1	4:UA:225:THR:OG1	2.15	0.59
3:UD:11:GLN:HE21	39:UD:501:GTP:H3'	1.67	0.59
4:UE:192:HIS:HA	4:UE:195:LEU:HD23	1.83	0.59
3:UH:28:HIS:O	3:UH:43:GLN:NE2	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VH:250:LEU:O	3:VH:254:ALA:N	2.27	0.59
3:VH:350:LYS:HE3	4:VI:180:ALA:HA	1.85	0.59
4:VI:32:PRO:O	4:VI:85:GLN:NE2	2.34	0.59
3:VL:13:GLY:HA2	3:VL:16:ILE:HB	1.84	0.59
3:WD:84:ILE:O	3:WD:86:ARG:NH1	2.34	0.59
4:WG:245:ASP:O	4:WG:356:ASN:ND2	2.36	0.59
3:WL:309:ARG:HE	3:WL:426:GLN:HE21	1.50	0.59
34:XB:115:LYS:O	34:XB:144:TYR:OH	2.14	0.59
36:Y:188:GLU:O	36:Y:192:LYS:N	2.30	0.59
36:Y:245:GLU:O	36:Y:249:LYS:NZ	2.33	0.59
37:YC:57:CYS:O	37:YC:63:ARG:NH1	2.33	0.59
37:YO:41:ARG:HH12	37:YO:45:SER:H	1.49	0.59
37:YV:161:LYS:HG3	37:YV:162:VAL:HG23	1.84	0.59
1:A:249:GLN:HG3	4:HC:282:TYR:HE1	1.66	0.59
2:A1:336:ARG:NH1	2:A2:59:VAL:HA	2.18	0.59
2:A2:162:ARG:HH12	13:G1:199:ILE:N	1.99	0.59
2:A2:330:ARG:NH2	2:A3:211:SER:OG	2.26	0.59
3:AF:141:GLY:HA3	39:AF:501:GTP:H5”	1.84	0.59
3:AF:385:PHE:HZ	3:AF:408:PHE:HB3	1.66	0.59
4:AG:88:HIS:CE1	4:AG:121:ARG:HH22	2.20	0.59
4:AK:34:GLY:HA2	4:AK:86:LEU:HD21	1.84	0.59
5:B9:365:ALA:O	5:B9:369:HIS:ND1	2.24	0.59
3:BB:211:CYS:HA	3:BB:215:LEU:HB2	1.84	0.59
3:BB:289:LEU:HD21	3:BB:363:MET:HB3	1.83	0.59
4:BE:1:MET:SD	4:BE:2:ARG:N	2.75	0.59
7:C2:394:LYS:O	7:C2:398:THR:HG23	2.02	0.59
7:C3:203:GLU:OE2	7:C3:204:LYS:NZ	2.34	0.59
7:C5:420:LEU:O	7:C5:423:GLU:HG2	2.02	0.59
3:CD:194:GLU:OE1	3:CD:195:ASN:ND2	2.35	0.59
4:CE:272:TYR:CZ	4:CE:274:PRO:HG2	2.37	0.59
4:CK:12:ALA:O	39:CK:501:GTP:N1	2.35	0.59
4:CK:33:ASP:OD1	4:CK:34:GLY:N	2.34	0.59
3:CL:302:ALA:HB1	3:CL:377:LEU:HD21	1.84	0.59
4:CM:205:ASP:OD2	4:CM:304:LYS:NZ	2.30	0.59
8:D2:169:ARG:HH12	8:D2:174:VAL:HG23	1.66	0.59
8:D2:402:LEU:HA	8:D2:405:LEU:HD12	1.83	0.59
8:D9:344:LYS:O	8:D9:347:GLU:HG3	2.02	0.59
3:DB:217:LEU:HD11	14:G4:269:ASN:HA	1.83	0.59
8:Da:66:GLN:NE2	8:Da:70:ASP:OD2	2.35	0.59
10:E3:165:ASP:HB3	10:E3:175:ARG:NH1	2.18	0.59
3:EB:322:SER:N	3:EB:325:GLU:OE2	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EC:273:ALA:N	4:EC:377:MET:HE1	2.18	0.59
3:EF:77:ARG:O	3:EF:77:ARG:NH1	2.30	0.59
4:EI:204:VAL:HG22	4:EI:209:ILE:HD11	1.83	0.59
4:EI:396:ASP:OD1	4:EI:397:LEU:N	2.36	0.59
11:F2:245:ASP:OD1	11:F6:196:TYR:OH	2.20	0.59
11:F3:95:TRP:O	11:F3:99:ASN:ND2	2.35	0.59
11:F3:129:GLN:O	11:F3:133:GLN:NE2	2.34	0.59
3:FB:173:PRO:O	3:FB:380:ARG:NH2	2.34	0.59
3:FD:286:VAL:HG21	3:FD:325:GLU:HG3	1.83	0.59
11:Fa:435:ARG:HH12	11:Fa:439:ASP:HB2	1.67	0.59
11:Fb:195:LEU:HD11	11:Fb:219:VAL:HG21	1.84	0.59
12:G:388:GLN:HA	12:G:391:ASN:HD22	1.66	0.59
13:G3:300:VAL:HG12	13:G3:321:LEU:HB2	1.84	0.59
14:G6:263:ARG:HG2	14:G6:277:SER:HA	1.83	0.59
3:GD:317:PHE:O	3:GD:354:CYS:N	2.26	0.59
4:GG:317:MET:HE1	4:GG:351:PHE:HB2	1.84	0.59
4:GI:144:GLY:N	39:GI:501:GTP:O2B	2.34	0.59
4:GI:207:GLU:HB2	4:GI:304:LYS:HZ1	1.67	0.59
4:GK:127:ASP:OD1	4:GK:128:LEU:N	2.35	0.59
15:H3:217:ALA:O	15:H3:236:TYR:OH	2.16	0.59
15:H6:288:PHE:HA	15:H6:292:MET:HE2	1.85	0.59
4:HE:274:PRO:HG3	4:HE:374:ALA:HA	1.85	0.59
3:HF:257:MET:O	3:HF:259:PRO:HD3	2.01	0.59
4:HI:34:GLY:HA2	4:HI:86:LEU:HD21	1.84	0.59
3:HJ:412:GLU:OE1	3:HJ:416:ASN:ND2	2.32	0.59
4:HK:161:TYR:O	4:HK:166:LYS:NZ	2.32	0.59
3:ID:131:GLN:HB3	3:ID:163:ILE:HD12	1.83	0.59
3:IF:412:GLU:OE1	3:IF:416:ASN:ND2	2.35	0.59
4:IG:295:CYS:HB2	4:IG:377:MET:HG2	1.84	0.59
3:IH:11:GLN:HG3	39:IH:501:GTP:PA	2.42	0.59
3:IH:12:CYS:HA	39:IH:501:GTP:N2	2.17	0.59
4:II:388:TRP:HB3	4:II:425:LEU:HD11	1.84	0.59
3:IJ:139:LEU:N	3:IJ:168:SER:OG	2.35	0.59
4:IM:306:ASP:OD2	4:IM:309:HIS:ND1	2.35	0.59
19:J1:30:ILE:O	19:J1:139:ARG:NH2	2.36	0.59
3:JB:141:GLY:HA3	39:JB:501:GTP:H5"	1.83	0.59
3:JD:47:ILE:HG21	3:JD:59:TYR:CE2	2.37	0.59
3:JF:324:LYS:HD2	4:JG:221:ARG:HA	1.84	0.59
4:JG:234:ILE:HD11	4:JG:272:TYR:HB2	1.84	0.59
4:JG:358:GLN:NE2	4:JG:359:PRO:O	2.35	0.59
4:JI:34:GLY:HA2	4:JI:86:LEU:HD21	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:JI:168:GLU:HB2	4:JI:201:ALA:HA	1.84	0.59
3:JJ:5:VAL:HG23	3:JJ:130:LEU:HD21	1.84	0.59
4:JK:269:LEU:N	4:JK:379:SER:O	2.31	0.59
20:K:64:VAL:HG23	20:K:144:VAL:HB	1.83	0.59
3:KH:13:GLY:HA2	3:KH:16:ILE:HB	1.84	0.59
3:KJ:84:ILE:O	3:KJ:86:ARG:NH1	2.34	0.59
3:KL:202:ILE:HD11	3:KL:268:PRO:HG2	1.85	0.59
20:L:30:LEU:HG	38:a:61:LEU:HD22	1.84	0.59
22:L1:72:LEU:O	22:L1:74:PRO:HD3	2.03	0.59
22:L2:171:GLU:HG3	22:L2:174:ASN:HD22	1.68	0.59
4:LE:46:ASP:OD1	4:LE:50:ASN:ND2	2.33	0.59
3:LF:111:GLU:HG2	3:LF:112:LEU:HD12	1.84	0.59
3:LJ:3:GLU:HG2	3:LJ:130:LEU:HD23	1.84	0.59
4:LK:1:MET:SD	4:LK:2:ARG:N	2.74	0.59
24:M1:68:ASN:HA	24:M1:71:LEU:HD12	1.83	0.59
3:MB:77:ARG:HD3	3:MB:90:PHE:HE2	1.68	0.59
4:MI:269:LEU:N	4:MI:379:SER:O	2.30	0.59
4:MK:236:SER:O	4:MK:243:ARG:NH2	2.35	0.59
25:N:87:ALA:O	25:N:91:HIS:ND1	2.36	0.59
26:N3:159:ARG:HB3	26:N3:164:GLY:H	1.66	0.59
3:NB:117:LEU:HD11	3:NB:154:LYS:HD2	1.83	0.59
3:ND:306:ARG:HH22	3:ND:340:TYR:HB3	1.68	0.59
3:NH:347:ASN:HB3	4:NI:178:SER:HB3	1.84	0.59
4:NK:33:ASP:OD1	4:NK:34:GLY:N	2.35	0.59
3:OD:131:GLN:HB3	3:OD:163:ILE:HD12	1.84	0.59
4:OE:338:LYS:HZ2	4:OE:340:THR:H	1.49	0.59
4:OI:144:GLY:N	39:OI:501:GTP:O2B	2.34	0.59
4:OK:118:VAL:HA	4:OK:121:ARG:HG2	1.84	0.59
3:OL:11:GLN:HE21	39:OL:501:GTP:H3'	1.67	0.59
4:PC:207:GLU:HB2	4:PC:304:LYS:NZ	2.14	0.59
4:PG:252:LEU:HD13	4:PG:255:PHE:HD2	1.68	0.59
3:PJ:324:LYS:NZ	4:PK:222:PRO:O	2.22	0.59
4:PK:91:GLN:HG3	4:PK:121:ARG:HH21	1.67	0.59
4:PM:319:TYR:N	4:PM:354:GLY:O	2.36	0.59
3:QB:317:PHE:HB3	3:QB:321:MET:HE3	1.83	0.59
4:QC:264:ARG:O	4:QC:266:HIS:ND1	2.35	0.59
3:QJ:375:GLN:HA	3:QJ:378:PHE:CZ	2.37	0.59
31:R1:280:TYR:O	31:R1:282:HIS:ND1	2.36	0.59
3:RD:198:GLU:HA	3:RD:266:PHE:HE2	1.66	0.59
3:RD:290:THR:HG21	3:RD:329:GLN:HB3	1.84	0.59
3:RD:309:ARG:N	3:RD:372:THR:OG1	2.27	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:RE:1:MET:HE1	4:RE:51:THR:HB	1.83	0.59
3:RH:135:LEU:HD22	3:RH:151:LEU:HD11	1.83	0.59
3:RH:419:VAL:O	3:RH:423:GLN:NE2	2.36	0.59
4:RI:171:ILE:HD12	4:RI:204:VAL:HG13	1.84	0.59
3:SB:324:LYS:HD2	4:SC:221:ARG:HA	1.84	0.59
4:SC:392:ASP:OD1	4:SC:393:HIS:N	2.35	0.59
3:SF:12:CYS:HB3	39:SF:501:GTP:H5'	1.84	0.59
3:SH:386:THR:HB	3:SH:390:ARG:HH22	1.67	0.59
3:TB:309:ARG:H	3:TB:372:THR:HG1	1.44	0.59
4:TG:34:GLY:HA2	4:TG:86:LEU:HD21	1.84	0.59
4:TI:12:ALA:HB1	39:TI:501:GTP:C2	2.37	0.59
3:TJ:252:LYS:O	3:TJ:256:ASN:ND2	2.35	0.59
4:UG:229:ARG:HE	4:UG:368:LEU:HD22	1.67	0.59
4:UG:396:ASP:OD1	4:UG:397:LEU:N	2.35	0.59
4:UK:67:PHE:HB2	4:UK:92:LEU:HD13	1.84	0.59
4:VC:236:SER:O	4:VC:243:ARG:NH2	2.29	0.59
3:VF:7:LEU:HB2	3:VF:135:LEU:HG	1.84	0.59
3:VH:194:GLU:OE1	3:VH:195:ASN:ND2	2.35	0.59
3:VJ:32:PRO:O	3:VJ:83:GLN:NE2	2.29	0.59
4:VK:205:ASP:OD2	4:VK:304:LYS:NZ	2.29	0.59
33:W:241:GLN:NE2	33:W:244:GLU:OE2	2.36	0.59
4:WA:216:ASN:HB2	4:WA:276:ILE:HD12	1.83	0.59
3:WB:347:ASN:HB3	4:WC:178:SER:HB3	1.84	0.59
4:WC:5:ILE:HD13	4:WC:64:ARG:HB3	1.85	0.59
4:WC:216:ASN:HB2	4:WC:276:ILE:HD12	1.82	0.59
4:WE:34:GLY:HA2	4:WE:86:LEU:HD21	1.84	0.59
3:WF:178:THR:HB	3:WF:181:GLU:HB2	1.84	0.59
3:WJ:178:THR:HB	3:WJ:181:GLU:HB2	1.83	0.59
34:XB:71:ILE:HG21	34:XB:167:PHE:HD2	1.66	0.59
35:XK:171:LEU:HA	35:XK:174:TYR:CE2	2.36	0.59
37:YA:130:ALA:HB3	37:YA:131:ARG:HH11	1.67	0.59
37:YF:22:GLN:HA	37:YF:25:PHE:HD2	1.67	0.59
37:YO:65:ILE:HG23	37:YO:66:LEU:HD12	1.85	0.59
37:YP:130:ALA:HA	37:YP:134:TYR:HB2	1.84	0.59
37:YT:114:ARG:NH2	37:YT:130:ALA:O	2.35	0.59
2:A1:118:TYR:CD1	2:A1:389:LEU:HD13	2.36	0.59
2:A1:353:GLU:OE2	2:A1:357:GLN:NE2	2.36	0.59
2:A4:24:TYR:O	2:A4:28:GLU:HG2	2.02	0.59
3:AB:39:ASP:OD1	3:AB:43:GLN:NE2	2.35	0.59
4:AI:256:GLN:O	4:AI:260:VAL:HG12	2.01	0.59
3:AJ:2:ARG:HA	3:AJ:129:CYS:O	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AK:319:TYR:N	4:AK:354:GLY:O	2.34	0.59
1:B:393:ASN:OD1	1:B:394:ALA:N	2.35	0.59
5:B4:85:LEU:HD21	5:B4:169:ARG:HB2	1.84	0.59
5:B6:45:LEU:HA	19:J3:97:ARG:CZ	2.33	0.59
5:B7:82:LEU:HA	5:B7:85:LEU:HD12	1.84	0.59
5:B7:85:LEU:HD11	5:B7:172:LEU:HD12	1.84	0.59
5:B8:36:HIS:O	5:B8:40:GLN:NE2	2.34	0.59
5:B8:307:LYS:HG2	5:B8:352:MET:HE1	1.83	0.59
3:BB:117:LEU:HD11	3:BB:154:LYS:HD2	1.85	0.59
3:BD:32:PRO:O	3:BD:83:GLN:NE2	2.32	0.59
3:BH:170:VAL:N	3:BH:202:ILE:O	2.29	0.59
4:BI:1:MET:O	4:BI:133:GLN:NE2	2.36	0.59
4:BK:216:ASN:HD21	4:BK:275:VAL:HG23	1.68	0.59
7:Cb:111:ASN:O	7:Cb:114:ARG:HD3	2.02	0.59
7:Cc:218:GLU:O	7:Cc:222:GLU:HG2	2.02	0.59
8:D4:269:GLU:HG2	8:D4:272:ARG:HH21	1.66	0.59
3:DD:170:VAL:N	3:DD:202:ILE:O	2.30	0.59
3:DF:194:GLU:OE1	3:DF:195:ASN:ND2	2.34	0.59
3:DF:380:ARG:O	3:DF:384:GLN:HG2	2.01	0.59
4:DI:118:VAL:HA	4:DI:121:ARG:HG2	1.85	0.59
3:DL:269:GLY:N	3:DL:367:PHE:O	2.34	0.59
9:E:446:ASP:OD1	9:E:447:TYR:N	2.33	0.59
9:E:823:LYS:NZ	9:E:840:GLU:OE2	2.35	0.59
11:F2:427:LEU:HG	11:F2:431:LYS:HZ1	1.68	0.59
11:F3:196:TYR:OH	11:F7:245:ASP:OD1	2.20	0.59
11:F4:231:LYS:O	11:F4:235:ARG:NH1	2.35	0.59
4:FA:154:MET:HE1	4:FA:197:HIS:HB2	1.82	0.59
4:FA:316:CYS:N	4:FA:378:LEU:O	2.35	0.59
4:FC:178:SER:OG	4:FC:183:GLU:OE2	2.14	0.59
4:FK:363:VAL:HG13	4:FK:366:GLY:HA3	1.84	0.59
3:FL:412:GLU:OE1	3:FL:416:ASN:ND2	2.36	0.59
11:Fh:395:MET:HB2	11:Fh:416:LEU:HD21	1.83	0.59
11:Fk:428:GLN:HA	11:Fk:431:LYS:HE3	1.83	0.59
12:G:402:GLN:O	12:G:406:GLN:NE2	2.36	0.59
13:G1:99:PHE:HE1	13:G1:190:THR:HG21	1.68	0.59
13:G3:425:ALA:HB3	13:G3:504:VAL:HB	1.84	0.59
13:G3:474:LYS:HE3	13:G3:483:ILE:HB	1.83	0.59
14:G6:172:PRO:HA	14:G6:175:LYS:HD2	1.84	0.59
3:GD:375:GLN:HA	3:GD:378:PHE:CZ	2.37	0.59
4:GE:154:MET:HE3	4:GE:194:THR:HG22	1.84	0.59
4:GE:228:ASN:ND2	23:M:94:TYR:OH	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:GE:295:CYS:HB2	4:GE:377:MET:HE3	1.83	0.59
3:GF:214:THR:HG21	3:GF:273:LEU:HB3	1.84	0.59
3:GF:317:PHE:O	3:GF:354:CYS:N	2.30	0.59
4:GK:216:ASN:ND2	4:GK:275:VAL:O	2.35	0.59
15:H6:292:MET:HE3	15:H6:293:GLN:NE2	2.18	0.59
4:HE:21:TRP:HA	4:HE:24:TYR:HB2	1.83	0.59
3:HF:187:LEU:HD21	3:HF:408:PHE:HE1	1.66	0.59
3:HJ:46:ARG:HH12	4:HK:73:THR:HG23	1.67	0.59
4:IA:25:CYS:HA	4:IA:30:ILE:HD13	1.85	0.59
3:IB:322:SER:N	3:IB:325:GLU:OE2	2.35	0.59
4:IE:8:HIS:CD2	4:IE:17:GLY:HA3	2.37	0.59
4:IG:244:PHE:HB2	4:IG:356:ASN:HD21	1.66	0.59
4:IK:88:HIS:HB3	4:IK:91:GLN:HB2	1.84	0.59
4:IK:172:TYR:HB2	4:IK:203:MET:HB3	1.83	0.59
3:JF:322:SER:N	3:JF:325:GLU:OE2	2.34	0.59
3:JJ:132:GLY:HA2	3:JJ:162:ARG:HB3	1.83	0.59
3:JL:170:VAL:N	3:JL:202:ILE:O	2.31	0.59
21:K1:421:LEU:O	21:K1:425:HIS:ND1	2.34	0.59
21:K3:44:VAL:HB	21:K3:108:ARG:HE	1.66	0.59
21:K3:164:ARG:NE	21:K3:318:GLU:OE2	2.35	0.59
3:KD:309:ARG:H	3:KD:372:THR:HG1	1.49	0.59
4:KI:89:PRO:HD2	4:LI:280:LYS:HZ3	1.68	0.59
3:KL:357:PRO:O	3:KL:359:ARG:NH2	2.36	0.59
20:L:74:ASN:O	20:L:235:ARG:NH2	2.35	0.59
22:L1:129:ARG:NH1	4:LC:89:PRO:O	2.35	0.59
22:L4:72:LEU:O	22:L4:74:PRO:HD3	2.02	0.59
3:LF:250:LEU:O	3:LF:254:ALA:N	2.34	0.59
3:LF:269:GLY:HA3	3:LF:367:PHE:HB3	1.84	0.59
3:LH:292:GLN:O	3:LH:298:ASN:ND2	2.34	0.59
3:LL:406:MET:O	3:LL:409:THR:OG1	2.15	0.59
4:MC:286:LEU:HG	4:MC:373:ARG:HD2	1.83	0.59
4:MC:308:ARG:NH2	4:MC:340:THR:O	2.35	0.59
3:MH:213:ARG:HH12	3:MH:297:LYS:HB3	1.67	0.59
3:MH:410:GLU:HA	30:Q2:1417:ARG:NH1	2.18	0.59
3:ML:323:MET:N	3:ML:323:MET:SD	2.74	0.59
4:NA:54:SER:HB2	4:NA:62:VAL:HB	1.82	0.59
3:NB:34:GLY:HA3	3:NB:58:LYS:HZ2	1.67	0.59
4:NC:208:ALA:H	4:NC:304:LYS:HZ1	1.49	0.59
3:ND:286:VAL:HG21	3:ND:325:GLU:HG3	1.84	0.59
4:NI:49:PHE:O	4:NI:53:PHE:N	2.35	0.59
4:NI:125:LEU:HD13	4:NI:128:LEU:HD21	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:NK:67:PHE:HB2	4:NK:92:LEU:HD13	1.84	0.59
4:OA:208:ALA:H	4:OA:304:LYS:HZ1	1.50	0.59
4:OC:84:ARG:NH2	37:YD:124:HIS:O	2.35	0.59
4:OK:396:ASP:OD1	4:OK:397:LEU:N	2.36	0.59
3:OL:83:GLN:O	3:OL:86:ARG:NH2	2.34	0.59
29:P2:524:ARG:NH2	3:VH:38:GLY:O	2.35	0.59
29:P3:17:GLN:HB3	29:P3:613:ARG:HH21	1.66	0.59
29:P3:232:MET:HG3	29:P3:239:LEU:HA	1.84	0.59
3:PB:12:CYS:HB3	39:PB:501:GTP:H5'	1.85	0.59
4:PC:388:TRP:HB3	4:PC:425:LEU:HD11	1.83	0.59
3:PF:372:THR:HB	3:PF:375:GLN:HE22	1.67	0.59
3:PH:52:ASN:OD1	3:PH:62:ARG:NH1	2.36	0.59
4:PI:9:VAL:HA	4:PI:68:VAL:HG23	1.85	0.59
4:PI:352:LYS:HZ2	3:PJ:179:VAL:HG13	1.68	0.59
4:QC:295:CYS:HB2	4:QC:377:MET:HE3	1.85	0.59
3:QD:250:LEU:O	3:QD:254:ALA:N	2.29	0.59
4:QG:50:ASN:O	4:QG:64:ARG:NH1	2.35	0.59
4:QI:9:VAL:HG11	4:QI:150:ALA:HB2	1.84	0.59
27:R:282:GLU:HA	27:R:285:TRP:HE3	1.68	0.59
3:RD:84:ILE:O	3:RD:86:ARG:NH1	2.35	0.59
4:RE:264:ARG:O	4:RE:266:HIS:ND1	2.36	0.59
4:RE:271:THR:HB	4:RE:377:MET:HE3	1.84	0.59
4:RI:127:ASP:OD1	4:RI:128:LEU:N	2.35	0.59
4:RI:278:ALA:O	4:RI:370:LYS:NZ	2.35	0.59
4:RK:207:GLU:HB2	4:RK:304:LYS:HZ1	1.66	0.59
3:SD:46:ARG:HH22	4:SE:73:THR:HA	1.68	0.59
3:SD:173:PRO:O	3:SD:380:ARG:NH2	2.35	0.59
4:SE:76:ASP:OD1	4:SE:79:ARG:NH1	2.35	0.59
3:SF:324:LYS:NZ	4:SG:222:PRO:O	2.33	0.59
4:SG:34:GLY:HA2	4:SG:86:LEU:HD21	1.84	0.59
4:SG:425:LEU:O	4:SG:428:LEU:N	2.35	0.59
3:SH:101:TRP:HB2	3:SH:184:ASN:HD22	1.67	0.59
3:SJ:198:GLU:HA	3:SJ:266:PHE:HE2	1.68	0.59
4:SK:171:ILE:HD12	4:SK:204:VAL:HG23	1.83	0.59
3:SL:114:ASP:OD1	3:SL:115:SER:N	2.36	0.59
4:TC:188:ILE:HG22	4:TC:421:ALA:HB1	1.84	0.59
4:TG:161:TYR:O	4:TG:166:LYS:NZ	2.33	0.59
3:TJ:398:TYR:HB3	3:TJ:403:MET:HB2	1.83	0.59
3:TN:392:LYS:HB2	3:TN:395:LEU:HD13	1.83	0.59
33:U:245:ASP:OD1	33:U:248:ARG:NH1	2.36	0.59
33:U:255:VAL:HA	33:U:258:LYS:HE2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UB:132:GLY:HA2	3:UB:162:ARG:HB3	1.84	0.59
3:UB:322:SER:N	3:UB:325:GLU:OE2	2.36	0.59
3:VB:247:ASN:OD1	4:VC:11:GLN:NE2	2.34	0.59
4:VC:206:ASN:HA	4:VC:209:ILE:HD12	1.85	0.59
4:VG:3:GLU:OE2	4:VG:130:THR:N	2.34	0.59
3:VH:350:LYS:HE3	4:VI:181:VAL:H	1.66	0.59
4:VI:68:VAL:HG12	4:VI:93:ILE:HB	1.85	0.59
4:WC:127:ASP:OD1	4:WC:128:LEU:N	2.36	0.59
3:WF:182:PRO:HB2	3:WF:388:MET:HE1	1.84	0.59
4:WG:427:ALA:HA	4:WG:430:LYS:HG2	1.84	0.59
3:WH:419:VAL:HG12	3:WH:423:GLN:HE22	1.67	0.59
3:WJ:325:GLU:O	3:WJ:329:GLN:HG2	2.01	0.59
3:WL:118:ASP:OD1	3:WL:121:ARG:NH1	2.35	0.59
35:XL:70:GLU:HB2	35:XL:77:LYS:HG3	1.85	0.59
37:YA:63:ARG:O	37:YA:67:ILE:HG12	2.03	0.59
37:YQ:116:LYS:NZ	37:YQ:117:TYR:O	2.36	0.59
37:YV:15:TYR:OH	37:YV:141:ILE:HG21	2.02	0.59
37:YW:98:GLU:HA	37:YW:101:LYS:HD2	1.84	0.59
2:A1:371:ALA:O	2:A1:374:GLU:HG3	2.03	0.59
2:A3:38:VAL:HG13	2:A3:42:GLN:HE22	1.68	0.59
3:AB:182:PRO:HB2	3:AB:388:MET:HE1	1.84	0.59
4:AG:271:THR:O	4:AG:377:MET:N	2.29	0.59
3:AH:383:GLU:N	3:AH:383:GLU:OE2	2.32	0.59
3:BB:4:ILE:HD11	3:BB:131:GLN:HB2	1.84	0.59
3:BB:316:VAL:HG22	3:BB:352:ALA:HB3	1.84	0.59
4:BC:357:TYR:CE2	14:G4:209:PRO:HG2	2.38	0.59
4:BC:433:GLU:O	4:BC:437:VAL:N	2.31	0.59
4:BI:50:ASN:O	4:BI:64:ARG:NH1	2.34	0.59
3:BJ:139:LEU:N	3:BJ:168:SER:OG	2.34	0.59
7:C2:157:LYS:HG3	7:C2:261:LYS:HZ1	1.65	0.59
7:C3:232:ARG:O	7:C3:236:HIS:ND1	2.31	0.59
7:C5:423:GLU:HA	7:C5:426:GLU:HG3	1.83	0.59
7:C6:114:ARG:HH22	7:C7:367:LYS:HG3	1.67	0.59
3:CD:269:GLY:HA2	3:CD:300:MET:HE1	1.85	0.59
4:CK:98:ASP:OD1	4:CK:99:ALA:N	2.35	0.59
4:CM:259:LEU:HD21	4:CM:316:CYS:HB2	1.84	0.59
7:Cb:347:PHE:CE2	7:Cb:351:ILE:HD11	2.37	0.59
7:Cc:273:HIS:HD2	7:Cc:275:ARG:HH12	1.50	0.59
8:D3:322:LEU:HD13	8:D3:412:LEU:HD22	1.83	0.59
8:D5:320:TYR:O	8:D5:324:LYS:NZ	2.35	0.59
8:D6:372:ASN:HA	8:D6:375:PHE:CD2	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:D8:350:LEU:HB2	8:D8:384:LEU:HD13	1.84	0.59
8:D9:140:ARG:NH2	8:D9:445:GLY:O	2.36	0.59
3:DB:170:VAL:N	3:DB:202:ILE:O	2.36	0.59
4:DI:53:PHE:O	4:DI:64:ARG:NH1	2.36	0.59
4:EA:224:TYR:HA	4:EA:227:LEU:HB2	1.85	0.59
4:EC:256:GLN:HE22	3:ED:397:TRP:HE1	1.50	0.59
4:EE:33:ASP:OD1	4:EE:34:GLY:N	2.35	0.59
4:EE:208:ALA:H	4:EE:304:LYS:NZ	1.98	0.59
3:EH:384:GLN:O	3:EH:388:MET:HG2	2.03	0.59
3:EJ:132:GLY:HA2	3:EJ:162:ARG:HB3	1.84	0.59
11:F1:436:GLU:HB3	11:F2:116:LEU:HD21	1.83	0.59
11:F3:93:ARG:NH1	11:F3:97:ARG:HB3	2.17	0.59
11:F7:263:ILE:HA	11:F7:266:ASN:ND2	2.17	0.59
3:FB:201:CYS:HB2	3:FB:267:MET:HE1	1.85	0.59
3:FD:172:SER:HB3	3:FD:175:VAL:O	2.02	0.59
3:FD:223:GLY:O	3:FD:227:HIS:N	2.33	0.59
4:FE:244:PHE:HB2	4:FE:356:ASN:HD21	1.66	0.59
3:FF:324:LYS:NZ	4:FG:222:PRO:O	2.31	0.59
3:FL:83:GLN:O	3:FL:86:ARG:NH2	2.36	0.59
11:Fb:241:ARG:HE	11:Fb:244:ARG:HE	1.51	0.59
11:Fb:306:HIS:HA	11:Fb:309:ASN:HD22	1.67	0.59
11:Ff:277:ILE:HD12	11:Fg:390:LYS:HG3	1.85	0.59
14:G4:49:TYR:OH	3:MD:79:GLY:O	2.16	0.59
14:G4:360:THR:HB	14:G4:364:TYR:CE2	2.37	0.59
4:GC:178:SER:OG	4:GC:180:ALA:O	2.20	0.59
4:GE:316:CYS:N	4:GE:378:LEU:O	2.34	0.59
3:GF:268:PRO:HD2	3:GF:301:ALA:HB2	1.85	0.59
3:GH:277:GLY:O	3:GH:280:GLN:NE2	2.34	0.59
3:GH:305:PRO:HB2	3:GH:310:TYR:HE1	1.68	0.59
3:GJ:324:LYS:O	3:GJ:327:ASP:N	2.35	0.59
3:GL:58:LYS:NZ	3:HL:280:GLN:OE1	2.35	0.59
3:HB:12:CYS:HA	39:HB:501:GTP:N2	2.18	0.59
4:HG:187:SER:O	4:HG:190:THR:OG1	2.17	0.59
3:HH:375:GLN:HA	3:HH:378:PHE:CZ	2.38	0.59
3:HL:421:GLU:O	3:HL:424:GLN:NE2	2.36	0.59
17:I2:54:ASN:HA	17:I2:57:LEU:HB2	1.84	0.59
3:IB:325:GLU:HB2	3:IB:329:GLN:HE22	1.68	0.59
3:IB:392:LYS:HB2	3:IB:395:LEU:HD13	1.84	0.59
4:IE:187:SER:O	4:IE:190:THR:OG1	2.17	0.59
4:IE:256:GLN:O	4:IE:260:VAL:HG12	2.03	0.59
3:IH:88:ASP:HB2	4:JG:280:LYS:HZ1	1.65	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IJ:253:LEU:HB3	3:IJ:257:MET:HE1	1.83	0.59
3:IL:269:GLY:N	3:IL:367:PHE:O	2.35	0.59
3:JF:139:LEU:HD21	3:JF:170:VAL:HG22	1.85	0.59
3:JJ:131:GLN:HB3	3:JJ:163:ILE:HD12	1.84	0.59
21:K2:271:PRO:HB2	21:K2:276:GLN:HE21	1.68	0.59
4:KC:216:ASN:ND2	4:KC:275:VAL:O	2.36	0.59
4:KE:236:SER:O	4:KE:243:ARG:NH2	2.30	0.59
3:KL:170:VAL:N	3:KL:202:ILE:O	2.31	0.59
20:L:79:LEU:HD11	20:L:263:PRO:HG2	1.83	0.59
4:MC:254:GLU:OE1	4:MC:254:GLU:N	2.35	0.59
4:MG:207:GLU:HB2	4:MG:304:LYS:HZ1	1.67	0.59
4:MG:337:THR:HA	28:O2:26:ARG:HH12	1.67	0.59
4:MI:88:HIS:CE1	4:MI:121:ARG:HH22	2.19	0.59
4:NA:1:MET:N	4:NA:130:THR:OG1	2.35	0.59
4:NG:401:LYS:C	4:NG:402:ARG:HD3	2.28	0.59
3:NH:111:GLU:HG2	3:NH:112:LEU:HD12	1.85	0.59
3:NJ:84:ILE:O	3:NJ:86:ARG:NH1	2.36	0.59
28:O2:38:TYR:CZ	30:Q2:1414:LEU:HD23	2.38	0.59
3:OB:182:PRO:HB2	3:OB:388:MET:HE1	1.83	0.59
4:OC:52:PHE:HZ	4:OC:239:THR:HB	1.67	0.59
3:OF:37:HIS:HA	37:YK:64:ARG:HH22	1.65	0.59
4:OG:46:ASP:OD1	4:OG:50:ASN:ND2	2.35	0.59
4:OI:1:MET:N	4:OI:130:THR:OG1	2.36	0.59
3:OJ:317:PHE:O	3:OJ:354:CYS:N	2.33	0.59
3:OJ:372:THR:HB	3:OJ:375:GLN:HE22	1.66	0.59
4:OK:127:ASP:OD1	4:OK:128:LEU:N	2.35	0.59
29:P1:532:PHE:HB3	36:Y:77:HIS:HD2	1.67	0.59
29:P2:78:TYR:HB3	29:P2:95:LEU:HD11	1.82	0.59
4:PM:50:ASN:O	4:PM:64:ARG:NH1	2.36	0.59
4:PM:423:GLU:HA	4:PM:426:ALA:HB3	1.84	0.59
4:QC:192:HIS:HA	4:QC:195:LEU:HD23	1.84	0.59
3:QF:83:GLN:O	3:QF:86:ARG:NH2	2.34	0.59
3:QH:173:PRO:O	3:QH:380:ARG:NH2	2.36	0.59
4:QM:50:ASN:O	4:QM:64:ARG:NH1	2.36	0.59
27:R:153:ARG:HH22	27:R:160:ARG:HH22	1.51	0.59
27:R:294:GLU:HA	27:R:297:ARG:HG2	1.84	0.59
4:RC:279:GLU:HG2	37:YB:127:CYS:HB3	1.84	0.59
3:RL:214:THR:HG21	3:RL:273:LEU:HB3	1.85	0.59
4:SC:57:GLY:O	36:Y:205:ARG:NH2	2.36	0.59
4:SE:396:ASP:OD1	4:SE:397:LEU:N	2.36	0.59
4:SI:50:ASN:O	4:SI:64:ARG:NH1	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:SM:396:ASP:OD1	4:SM:397:LEU:N	2.36	0.59
3:TB:47:ILE:HG22	3:TB:51:TYR:HB2	1.84	0.59
3:TD:111:GLU:HG2	3:TD:112:LEU:HD12	1.84	0.59
3:TH:28:HIS:O	3:TH:43:GLN:NE2	2.36	0.59
4:TK:171:ILE:HD12	4:TK:204:VAL:HG13	1.83	0.59
3:TL:295:ASP:HB2	3:TL:298:ASN:HB2	1.84	0.59
4:UG:32:PRO:O	4:UG:85:GLN:NE2	2.35	0.59
4:UG:389:ALA:O	4:UG:393:HIS:ND1	2.35	0.59
3:UH:266:PHE:HB3	3:UH:368:ILE:HD11	1.85	0.59
3:UJ:398:TYR:HB3	3:UJ:403:MET:HB2	1.82	0.59
4:UK:271:THR:HA	4:UK:302:MET:HE1	1.83	0.59
3:UL:173:PRO:O	3:UL:380:ARG:NH2	2.35	0.59
4:VA:91:GLN:HG3	4:VA:121:ARG:HH21	1.67	0.59
4:VA:236:SER:O	4:VA:243:ARG:NH2	2.33	0.59
3:VD:70:PRO:HA	3:VD:73:MET:HE2	1.84	0.59
3:VH:139:LEU:N	3:VH:168:SER:OG	2.35	0.59
4:VI:396:ASP:OD1	4:VI:397:LEU:N	2.35	0.59
3:WF:139:LEU:HD21	3:WF:170:VAL:HG22	1.85	0.59
4:WK:54:SER:N	4:WK:62:VAL:O	2.36	0.59
34:XA:74:PRO:HD2	34:XA:169:ASP:HA	1.84	0.59
34:XD:38:THR:HG22	35:XJ:199:GLN:NE2	2.18	0.59
34:XG:29:VAL:HA	34:XG:57:THR:HG23	1.84	0.59
35:XH:167:GLY:H	35:XH:219:TYR:HE2	1.50	0.59
35:XK:217:GLU:OE2	35:XK:235:TYR:OH	2.11	0.59
37:YG:68:MET:O	37:YG:72:ILE:N	2.30	0.59
37:YL:161:LYS:HG3	37:YL:162:VAL:HG23	1.83	0.59
2:A2:334:GLN:O	2:A2:338:ILE:HG12	2.02	0.59
2:A3:114:LYS:NZ	2:A3:117:GLU:OE1	2.35	0.59
3:AD:269:GLY:HA2	3:AD:300:MET:HE1	1.85	0.59
3:AJ:250:LEU:O	3:AJ:254:ALA:N	2.27	0.59
5:B8:123:ARG:HH12	5:B8:383:THR:HA	1.67	0.59
4:BG:224:TYR:HA	4:BG:227:LEU:HB2	1.84	0.59
3:BH:182:PRO:HB2	3:BH:388:MET:HE1	1.85	0.59
4:BK:33:ASP:OD1	4:BK:34:GLY:N	2.35	0.59
4:CG:12:ALA:HB2	39:CG:501:GTP:H5"	1.84	0.59
7:Cb:410:GLU:HA	7:Cc:300:TRP:CZ2	2.38	0.59
4:DC:67:PHE:HB2	4:DC:92:LEU:HD13	1.85	0.59
3:DD:182:PRO:HB2	3:DD:388:MET:HE1	1.85	0.59
10:E1:9:THR:O	10:E1:142:ARG:NH2	2.26	0.59
3:EB:269:GLY:HA2	3:EB:300:MET:HE1	1.84	0.59
4:EE:38:SER:HB2	14:G5:716:LYS:NZ	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EE:49:PHE:O	4:EE:53:PHE:N	2.33	0.59
3:EH:23:VAL:O	3:EH:27:GLU:N	2.32	0.59
3:EH:130:LEU:HB2	3:EH:162:ARG:HH11	1.68	0.59
4:EI:49:PHE:HB2	4:EI:53:PHE:HB2	1.84	0.59
3:EL:328:GLU:OE1	3:EL:332:ASN:ND2	2.35	0.59
11:F3:231:LYS:O	11:F3:235:ARG:NH1	2.36	0.59
3:FB:28:HIS:ND1	3:FB:43:GLN:HB2	2.17	0.59
3:FH:91:VAL:HG11	3:FH:116:VAL:HG12	1.85	0.59
3:FH:117:LEU:HD11	3:FH:154:LYS:HD2	1.84	0.59
4:FK:264:ARG:O	4:FK:266:HIS:ND1	2.35	0.59
12:G:262:ASN:HA	12:G:265:GLN:HE21	1.67	0.59
14:G4:99:ILE:HG21	14:G4:192:PRO:HG2	1.85	0.59
14:G5:95:GLU:HB3	14:G5:196:TYR:HB2	1.84	0.59
4:GA:49:PHE:O	4:GA:53:PHE:N	2.36	0.59
4:GA:254:GLU:OE1	4:GA:254:GLU:N	2.33	0.59
3:GB:303:CYS:SG	3:GB:304:ASP:N	2.74	0.59
4:GC:107:HIS:HA	4:GC:152:LEU:HD23	1.85	0.59
4:GG:105:ARG:O	4:GG:109:THR:OG1	2.19	0.59
3:HB:46:ARG:HH22	4:HC:73:THR:HA	1.67	0.59
3:HH:11:GLN:HE21	39:HH:501:GTP:H3'	1.67	0.59
4:HI:216:ASN:HB2	4:HI:276:ILE:HD12	1.83	0.59
4:HK:237:SER:OG	4:HK:376:CYS:SG	2.60	0.59
3:HL:419:VAL:HG12	3:HL:423:GLN:HE22	1.68	0.59
17:I3:57:LEU:O	17:I3:61:TYR:N	2.32	0.59
3:IB:46:ARG:HH22	4:IC:73:THR:HA	1.68	0.59
3:IB:216:LYS:O	3:IB:276:ARG:NH2	2.35	0.59
3:ID:412:GLU:OE1	3:ID:416:ASN:ND2	2.36	0.59
4:IE:245:ASP:O	4:IE:356:ASN:ND2	2.35	0.59
4:II:279:GLU:HA	4:II:282:TYR:HD2	1.68	0.59
3:IJ:278:SER:HA	3:IJ:281:TYR:HB2	1.82	0.59
3:IJ:362:LYS:HE3	3:IJ:362:LYS:HA	1.85	0.59
4:IM:1:MET:SD	4:IM:2:ARG:N	2.75	0.59
4:JE:98:ASP:O	4:JE:105:ARG:NH2	2.23	0.59
4:JI:319:TYR:N	4:JI:354:GLY:O	2.36	0.59
21:K2:330:ASN:OD1	21:K2:468:ARG:NH1	2.35	0.59
21:K4:350:MET:HE1	21:K4:447:LEU:HB2	1.85	0.59
4:KA:263:PRO:HD3	3:KB:396:HIS:CD2	2.37	0.59
4:KC:34:GLY:HA2	4:KC:86:LEU:HD21	1.84	0.59
4:KG:33:ASP:OD1	4:KG:34:GLY:N	2.36	0.59
4:KG:88:HIS:HB3	4:KG:91:GLN:HB2	1.85	0.59
3:KH:324:LYS:NZ	4:KI:222:PRO:O	2.22	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KJ:28:HIS:ND1	3:KJ:43:GLN:HB2	2.18	0.59
4:LA:224:TYR:HA	4:LA:227:LEU:HB2	1.84	0.59
3:LL:84:ILE:O	3:LL:86:ARG:NH1	2.35	0.59
4:MC:49:PHE:O	4:MC:53:PHE:N	2.35	0.59
3:MD:324:LYS:HE2	4:ME:222:PRO:HG2	1.84	0.59
3:MD:406:MET:HG2	30:Q1:1420:ILE:HD13	1.84	0.59
4:ME:127:ASP:OD1	4:ME:128:LEU:N	2.36	0.59
4:ME:244:PHE:HB2	4:ME:356:ASN:HD21	1.67	0.59
3:MF:187:LEU:HD21	3:MF:408:PHE:HE1	1.68	0.59
3:MH:309:ARG:O	3:MH:371:SER:OG	2.18	0.59
4:MI:224:TYR:HA	4:MI:227:LEU:HB2	1.84	0.59
3:MJ:3:GLU:HG2	3:MJ:130:LEU:HD23	1.84	0.59
4:MM:161:TYR:O	4:MM:166:LYS:NZ	2.28	0.59
4:NA:49:PHE:O	4:NA:53:PHE:N	2.34	0.59
4:NI:53:PHE:O	4:NI:64:ARG:NH1	2.34	0.59
3:NJ:374:ILE:HA	3:NJ:377:LEU:HD13	1.83	0.59
4:NK:23:LEU:HG	4:NK:229:ARG:HH11	1.67	0.59
4:NK:244:PHE:HB2	4:NK:356:ASN:HD21	1.66	0.59
3:NL:322:SER:N	3:NL:325:GLU:OE2	2.35	0.59
4:OA:187:SER:O	4:OA:190:THR:OG1	2.18	0.59
4:OE:49:PHE:O	4:OE:53:PHE:N	2.34	0.59
4:OI:50:ASN:O	4:OI:64:ARG:NH1	2.36	0.59
4:OI:66:VAL:HA	4:OI:91:GLN:HE21	1.65	0.59
4:PA:259:LEU:HD21	4:PA:316:CYS:HB2	1.84	0.59
3:PD:156:ARG:NH1	3:PD:195:ASN:O	2.35	0.59
4:PG:54:SER:HB2	4:PG:62:VAL:HB	1.84	0.59
3:PH:410:GLU:HA	3:PH:413:SER:HB3	1.84	0.59
3:PJ:155:ILE:HA	3:PJ:158:GLU:HB2	1.84	0.59
3:QB:4:ILE:HD11	3:QB:131:GLN:HB2	1.83	0.59
3:QB:323:MET:SD	3:QB:323:MET:N	2.75	0.59
4:QG:49:PHE:O	4:QG:53:PHE:N	2.35	0.59
3:QJ:141:GLY:HA3	39:QJ:501:GTP:H5”	1.84	0.59
3:QL:258:VAL:O	4:QM:407:TRP:NE1	2.36	0.59
4:QM:207:GLU:HB2	4:QM:304:LYS:HZ1	1.65	0.59
4:RI:338:LYS:HZ2	4:RI:340:THR:H	1.51	0.59
3:SB:309:ARG:N	3:SB:372:THR:OG1	2.29	0.59
3:SJ:152:ILE:HD12	3:SJ:195:ASN:HB2	1.85	0.59
3:SJ:189:VAL:HA	3:SJ:192:LEU:HB2	1.83	0.59
4:SK:125:LEU:HD13	4:SK:128:LEU:HD21	1.84	0.59
3:TD:286:VAL:HG21	3:TD:325:GLU:HG3	1.84	0.59
4:TE:1:MET:SD	4:TE:2:ARG:N	2.76	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:TE:214:ARG:NH1	4:TE:215:ARG:HG3	2.18	0.59
4:TE:296:PHE:HE1	4:TE:377:MET:HE2	1.66	0.59
4:TI:236:SER:O	4:TI:243:ARG:NH2	2.33	0.59
3:TL:152:ILE:HD12	3:TL:195:ASN:HB2	1.84	0.59
3:TN:28:HIS:O	3:TN:43:GLN:NE2	2.34	0.59
4:UA:273:ALA:N	4:UA:377:MET:HE1	2.18	0.59
4:UA:319:TYR:HD2	4:UA:323:VAL:HG11	1.66	0.59
4:UG:272:TYR:CZ	4:UG:274:PRO:HG2	2.36	0.59
3:UH:317:PHE:HB3	3:UH:321:MET:HE3	1.85	0.59
3:UJ:216:LYS:O	3:UJ:276:ARG:NH2	2.36	0.59
3:UL:374:ILE:HA	3:UL:377:LEU:HD13	1.85	0.59
3:VD:258:VAL:HB	4:VE:407:TRP:HZ2	1.68	0.59
4:VE:216:ASN:HB2	4:VE:276:ILE:HD12	1.84	0.59
4:VG:91:GLN:HG3	4:VG:121:ARG:HH21	1.66	0.59
4:VK:316:CYS:HB3	4:VK:378:LEU:HB3	1.84	0.59
33:W:257:GLY:O	33:W:261:ILE:HG12	2.03	0.59
4:WC:3:GLU:HB3	4:WC:51:THR:HA	1.84	0.59
34:XA:72:LYS:HD3	34:XA:150:GLU:HB3	1.85	0.59
37:YB:80:CYS:HA	37:YB:83:PHE:HD2	1.67	0.59
37:YE:68:MET:O	37:YE:72:ILE:N	2.34	0.59
37:YJ:41:ARG:NH1	37:YJ:48:GLN:OE1	2.36	0.59
37:YR:25:PHE:HE1	37:YR:66:LEU:HA	1.67	0.59
37:YT:26:ILE:O	37:YT:30:GLU:N	2.31	0.59
1:A:40:ASN:O	1:A:44:GLN:HG3	2.03	0.59
2:A1:323:ARG:NH1	2:A2:184:ILE:HG12	2.17	0.59
3:AB:12:CYS:HB3	39:AB:501:GTP:H5'	1.84	0.59
3:AB:250:LEU:O	3:AB:254:ALA:N	2.28	0.59
3:AF:46:ARG:HH22	4:AG:73:THR:HA	1.66	0.59
3:AF:424:GLN:HG3	35:XJ:183:ILE:HB	1.83	0.59
4:AK:108:TYR:O	4:AK:112:LYS:NZ	2.27	0.59
5:B3:245:LEU:O	5:B3:249:GLN:HG2	2.03	0.59
3:BH:11:GLN:HE21	39:BH:501:GTP:H3'	1.66	0.59
4:BK:371:VAL:HG11	4:BK:374:ALA:HB2	1.85	0.59
3:BL:309:ARG:H	3:BL:372:THR:HG1	1.49	0.59
7:C3:249:SER:O	7:C3:253:GLU:HG3	2.03	0.59
7:C3:347:PHE:CE2	7:C3:473:CYS:HB3	2.38	0.59
7:C9:466:LEU:O	7:C9:470:GLN:NE2	2.36	0.59
3:CB:328:GLU:OE1	3:CB:332:ASN:ND2	2.36	0.59
4:CC:52:PHE:HZ	4:CC:239:THR:HB	1.67	0.59
4:CC:161:TYR:O	4:CC:166:LYS:NZ	2.35	0.59
3:CD:111:GLU:HG2	3:CD:112:LEU:HD12	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CD:316:VAL:HG22	3:CD:352:ALA:HB3	1.82	0.59
4:CG:205:ASP:OD2	4:CG:304:LYS:NZ	2.25	0.59
4:CI:84:ARG:HH21	15:H4:213:ILE:HG23	1.68	0.59
6:D:389:PHE:O	32:T:334:ARG:NH2	2.36	0.59
8:D2:315:LEU:HD21	8:D2:419:LYS:HB3	1.83	0.59
8:D7:269:GLU:HG2	8:D7:272:ARG:HH21	1.68	0.59
4:DC:396:ASP:OD1	4:DC:397:LEU:N	2.35	0.59
3:DD:6:HIS:HD1	3:DD:63:ALA:HB1	1.68	0.59
3:DF:170:VAL:N	3:DF:202:ILE:O	2.31	0.59
3:DJ:3:GLU:OE2	3:DJ:129:CYS:N	2.35	0.59
4:DK:89:PRO:HD2	4:EK:280:LYS:HZ3	1.67	0.59
3:EB:267:MET:O	3:EB:369:GLY:N	2.34	0.59
4:EC:54:SER:HB2	4:EC:62:VAL:HB	1.84	0.59
4:EC:216:ASN:HD21	4:EC:275:VAL:HG23	1.66	0.59
3:ED:7:LEU:HD13	3:ED:64:VAL:HB	1.82	0.59
3:ED:223:GLY:O	3:ED:227:HIS:N	2.33	0.59
4:EG:6:SER:HA	4:EG:136:LEU:HB2	1.84	0.59
4:EG:433:GLU:O	4:EG:437:VAL:N	2.33	0.59
4:EI:203:MET:SD	4:EI:203:MET:N	2.74	0.59
3:EL:227:HIS:HD1	13:G3:387:TYR:HD1	1.49	0.59
9:F:403:ASN:H	4:IM:370:LYS:HD2	1.67	0.59
11:F5:214:ASN:O	11:F5:217:ARG:NH1	2.36	0.59
11:F6:289:THR:O	11:F7:409:ARG:NH2	2.30	0.59
11:F7:180:ALA:O	11:F7:184:VAL:HG23	2.03	0.59
4:FA:127:ASP:OD1	4:FA:128:LEU:N	2.36	0.59
3:FB:293:MET:HE3	3:FB:367:PHE:HB2	1.84	0.59
3:FB:344:TRP:HD1	4:FC:401:LYS:HD2	1.67	0.59
3:FD:350:LYS:HE3	4:FE:181:VAL:H	1.67	0.59
3:FH:326:VAL:HA	3:FH:329:GLN:NE2	2.17	0.59
11:Fa:385:LYS:HA	11:Fa:388:PRO:HG2	1.83	0.59
11:Fi:305:ARG:O	11:Fi:308:GLN:NE2	2.35	0.59
11:Fl:214:ASN:OD1	11:Fl:217:ARG:NH2	2.35	0.59
4:GA:213:CYS:O	4:GA:218:ASP:N	2.35	0.59
3:GB:11:GLN:HE21	39:GB:501:GTP:H3'	1.68	0.59
4:GE:326:LYS:HE3	3:GF:219:THR:HA	1.84	0.59
4:GI:53:PHE:O	4:GI:64:ARG:NH1	2.34	0.59
3:GJ:273:LEU:H	3:GJ:292:GLN:HE22	1.50	0.59
3:GL:380:ARG:O	3:GL:384:GLN:HG2	2.02	0.59
3:HD:374:ILE:HA	3:HD:377:LEU:HD13	1.85	0.59
4:HG:1:MET:O	4:HG:131:GLY:HA3	2.02	0.59
4:HG:12:ALA:O	39:HG:501:GTP:N1	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HH:234:SER:O	3:HH:238:THR:HG23	2.03	0.59
4:HI:245:ASP:O	4:HI:356:ASN:ND2	2.36	0.59
3:HJ:32:PRO:O	3:HJ:83:GLN:NE2	2.27	0.59
17:I1:72:ILE:HG13	17:I1:74:SER:H	1.68	0.59
4:IE:12:ALA:HB2	39:IE:501:GTP:H5"	1.85	0.59
4:II:320:ARG:HD3	4:II:360:PRO:HG3	1.85	0.59
4:JC:88:HIS:HB3	4:JC:91:GLN:HB2	1.84	0.59
4:JG:286:LEU:HD11	4:JG:373:ARG:H	1.67	0.59
4:JI:203:MET:SD	4:JI:203:MET:N	2.75	0.59
4:JI:207:GLU:HB2	4:JI:304:LYS:HZ1	1.66	0.59
3:JL:250:LEU:O	3:JL:254:ALA:N	2.33	0.59
3:KB:375:GLN:HA	3:KB:378:PHE:CZ	2.38	0.59
3:KH:328:GLU:OE1	3:KH:332:ASN:ND2	2.34	0.59
3:KH:328:GLU:OE2	3:KH:329:GLN:NE2	2.35	0.59
22:L1:80:ARG:NH2	4:LA:196:GLU:OE2	2.36	0.59
3:LJ:139:LEU:HD21	3:LJ:170:VAL:HG22	1.83	0.59
3:MB:84:ILE:O	3:MB:86:ARG:NH1	2.35	0.59
3:MB:235:GLY:O	3:MB:238:THR:OG1	2.18	0.59
3:MH:372:THR:HB	3:MH:375:GLN:HE22	1.68	0.59
3:ND:207:LEU:HD22	3:ND:228:LEU:HD11	1.84	0.59
4:NE:206:ASN:HA	4:NE:209:ILE:HD12	1.84	0.59
3:NF:211:CYS:HA	3:NF:215:LEU:HB2	1.83	0.59
3:NF:384:GLN:O	3:NF:388:MET:HG2	2.02	0.59
4:NK:101:ASN:HA	4:NK:144:GLY:HA2	1.85	0.59
3:OB:28:HIS:ND1	3:OB:43:GLN:HB2	2.17	0.59
4:OC:216:ASN:HB2	4:OC:276:ILE:HD12	1.83	0.59
3:OD:304:ASP:O	3:OD:307:HIS:ND1	2.36	0.59
3:OF:190:HIS:CD2	3:OF:411:ALA:HA	2.37	0.59
3:OH:250:LEU:O	3:OH:254:ALA:N	2.31	0.59
4:OK:34:GLY:HA2	4:OK:86:LEU:HD21	1.84	0.59
29:P1:392:ALA:HB2	29:P1:423:ILE:HB	1.84	0.59
4:PA:254:GLU:O	4:PA:258:ASN:ND2	2.26	0.59
4:PA:256:GLN:O	4:PA:260:VAL:HG12	2.02	0.59
4:PC:50:ASN:O	4:PC:64:ARG:NH1	2.34	0.59
4:PC:262:TYR:CD1	4:PC:263:PRO:HD2	2.38	0.59
4:PG:192:HIS:HA	4:PG:195:LEU:HD23	1.83	0.59
27:Q:35:ARG:NH1	27:Q:35:ARG:O	2.36	0.59
30:Q1:1437:TYR:HB3	30:Q1:1440:LEU:HD13	1.85	0.59
4:RE:11:GLN:HB2	4:RE:74:VAL:HG21	1.85	0.59
4:RI:115:VAL:HA	4:RI:118:VAL:HG22	1.85	0.59
4:RI:205:ASP:OD2	4:RI:304:LYS:NZ	2.29	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:RK:285:GLN:HE22	4:RK:287:SER:HB3	1.66	0.59
3:RL:305:PRO:HB2	3:RL:310:TYR:HE1	1.66	0.59
4:SE:103:TYR:HB2	4:SE:186:ASN:HB2	1.84	0.59
4:SE:236:SER:O	4:SE:243:ARG:NH2	2.29	0.59
3:TB:114:ASP:OD1	3:TB:115:SER:N	2.36	0.59
4:TE:205:ASP:OD2	4:TE:304:LYS:NZ	2.28	0.59
4:TE:229:ARG:HE	4:TE:368:LEU:HD22	1.67	0.59
4:TG:89:PRO:HD2	4:UE:280:LYS:HZ3	1.66	0.59
4:TG:285:GLN:HE22	4:TG:287:SER:HB3	1.68	0.59
3:TJ:309:ARG:H	3:TJ:372:THR:HG1	1.48	0.59
4:TK:6:SER:HA	4:TK:136:LEU:HB3	1.84	0.59
33:U:454:ARG:HH21	33:U:457:ILE:HG13	1.67	0.59
3:UB:214:THR:HG23	3:UB:215:LEU:HD12	1.83	0.59
4:UC:49:PHE:O	4:UC:53:PHE:N	2.32	0.59
4:VA:295:CYS:HB2	4:VA:377:MET:HE3	1.84	0.59
3:VD:2:ARG:HB3	3:VD:131:GLN:NE2	2.17	0.59
3:VF:28:HIS:ND1	3:VF:43:GLN:HB2	2.18	0.59
3:WF:316:VAL:HG22	3:WF:352:ALA:HB3	1.84	0.59
3:WJ:173:PRO:O	3:WJ:380:ARG:NH2	2.35	0.59
34:XE:78:MET:H	34:XE:132:ILE:HB	1.67	0.59
34:XG:84:LYS:HE3	35:XM:241:ASN:HB2	1.85	0.59
37:YD:50:GLN:NE2	37:YD:70:MET:SD	2.74	0.59
37:YH:136:GLY:O	37:YH:140:LEU:N	2.32	0.59
37:YR:50:GLN:O	37:YR:53:MET:HG3	2.03	0.59
37:YW:50:GLN:O	37:YW:53:MET:HG3	2.03	0.59
36:Z:318:GLU:OE1	36:Z:322:ARG:NH2	2.35	0.59
2:A4:172:GLU:OE1	7:C4:279:GLU:HG3	2.03	0.59
2:A4:214:LEU:HA	2:A4:217:TRP:NE1	2.18	0.59
2:A4:244:GLN:HE22	5:B1:245:LEU:HA	1.68	0.59
3:AB:166:THR:OG1	3:AB:198:GLU:O	2.19	0.59
4:AC:53:PHE:O	4:AC:64:ARG:NH1	2.36	0.59
3:AF:412:GLU:HA	3:AF:415:MET:HE2	1.83	0.59
4:AG:203:MET:SD	4:AG:203:MET:N	2.75	0.59
4:AI:30:ILE:HD13	4:AI:36:MET:HE3	1.83	0.59
4:AK:264:ARG:O	4:AK:266:HIS:ND1	2.35	0.59
3:AL:239:CYS:SG	3:AL:248:ALA:HA	2.42	0.59
5:B2:141:VAL:HA	5:B2:144:ILE:HD12	1.83	0.59
4:BE:1:MET:O	4:BE:133:GLN:NE2	2.35	0.59
4:BE:79:ARG:O	15:H2:20:TYR:OH	2.21	0.59
3:BF:239:CYS:SG	3:BF:248:ALA:HA	2.43	0.59
4:BK:12:ALA:HB2	39:BK:501:GTP:H5”	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BM:388:TRP:HB3	4:BM:425:LEU:HD11	1.85	0.59
7:C7:203:GLU:O	7:Cb:256:LYS:NZ	2.35	0.59
3:CF:135:LEU:O	3:CF:167:PHE:N	2.31	0.59
3:CH:83:GLN:O	3:CH:86:ARG:NH2	2.35	0.59
3:CJ:141:GLY:HA3	39:CJ:501:GTP:H5"	1.85	0.59
4:CK:262:TYR:OH	3:CL:391:ARG:O	2.21	0.59
3:CL:12:CYS:HB3	39:CL:501:GTP:H5'	1.85	0.59
7:Cb:372:ILE:O	7:Cb:375:ILE:HG22	2.03	0.59
6:D:101:TYR:HD1	6:D:105:GLN:HE22	1.51	0.59
6:D:154:ASP:HA	6:D:157:VAL:HG13	1.84	0.59
8:D2:47:ARG:NH2	8:D2:50:LYS:O	2.35	0.59
8:D4:256:THR:HG22	8:D4:260:PHE:CE2	2.38	0.59
3:DD:322:SER:N	3:DD:325:GLU:OE2	2.36	0.59
3:DD:376:GLU:OE1	3:DD:376:GLU:N	2.25	0.59
4:DG:79:ARG:HG2	15:H4:282:ILE:CD1	2.33	0.59
3:DJ:48:ASN:HD21	15:H6:288:PHE:HB2	1.68	0.59
4:DK:1:MET:O	4:DK:131:GLY:HA3	2.03	0.59
9:E:417:ARG:NH2	3:IB:223:GLY:O	2.35	0.59
10:E2:152:THR:C	10:E2:154:ASN:H	2.09	0.59
4:EA:273:ALA:N	4:EA:377:MET:HE1	2.18	0.59
3:EJ:317:PHE:HB3	3:EJ:321:MET:HE3	1.85	0.59
3:EL:320:ARG:NH1	3:EL:355:ASP:O	2.34	0.59
9:F:356:LEU:HD22	3:IL:227:HIS:HB2	1.85	0.59
11:F3:327:THR:O	11:F3:331:GLN:NE2	2.33	0.59
11:F5:137:GLY:O	11:F5:141:ASN:ND2	2.36	0.59
11:F9:350:GLU:HG2	11:F9:458:LYS:HZ1	1.67	0.59
3:FB:267:MET:O	3:FB:369:GLY:N	2.35	0.59
3:FD:166:THR:OG1	3:FD:198:GLU:O	2.20	0.59
3:FD:278:SER:HB2	3:FD:282:ARG:HG2	1.83	0.59
11:Fa:160:LEU:HD11	11:Fa:250:LEU:HB3	1.85	0.59
11:Fb:415:ARG:HH21	11:Fc:141:ASN:HB2	1.68	0.59
14:G4:275:MET:HE1	14:G4:278:PHE:HA	1.85	0.59
14:G6:714:LYS:HA	14:G6:720:VAL:HG22	1.84	0.59
3:GD:101:TRP:HB2	3:GD:184:ASN:ND2	2.17	0.59
3:GD:322:SER:N	3:GD:325:GLU:OE2	2.36	0.59
4:GG:50:ASN:O	4:GG:64:ARG:NH1	2.36	0.59
4:GG:392:ASP:OD1	4:GG:393:HIS:N	2.36	0.59
3:GH:385:PHE:HA	3:GH:388:MET:HE2	1.83	0.59
4:GI:49:PHE:O	4:GI:53:PHE:N	2.34	0.59
3:GL:194:GLU:OE1	3:GL:195:ASN:ND2	2.36	0.59
3:HL:269:GLY:N	3:HL:367:PHE:O	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:IA:296:PHE:HE1	4:IA:377:MET:HE2	1.67	0.59
3:ID:111:GLU:HG2	3:ID:112:LEU:HD12	1.85	0.59
3:IF:249:ASP:O	3:IF:252:LYS:HB2	2.03	0.59
3:IH:268:PRO:HD2	3:IH:301:ALA:HB2	1.84	0.59
3:IJ:87:PRO:HG3	18:J:126:TRP:HH2	1.66	0.59
4:IK:223:THR:HG1	4:IK:225:THR:HG1	1.49	0.59
4:IK:386:GLU:HA	4:IK:389:ALA:HB3	1.85	0.59
4:IM:33:ASP:OD1	4:IM:34:GLY:N	2.35	0.59
4:IM:245:ASP:O	4:IM:356:ASN:ND2	2.36	0.59
3:JB:392:LYS:HB2	3:JB:395:LEU:HD13	1.83	0.59
4:JC:271:THR:HB	4:JC:377:MET:HE3	1.83	0.59
3:JD:374:ILE:HA	3:JD:377:LEU:HD13	1.84	0.59
3:JF:211:CYS:HA	3:JF:215:LEU:HB2	1.84	0.59
3:JJ:155:ILE:HA	3:JJ:158:GLU:HB2	1.83	0.59
4:JK:396:ASP:OD1	4:JK:397:LEU:N	2.36	0.59
21:K2:142:ARG:NH2	21:K2:266:ASP:OD1	2.35	0.59
21:K3:488:THR:O	21:K3:490:ALA:N	2.29	0.59
21:K4:360:THR:HG21	21:K5:36:THR:HG22	1.85	0.59
21:K4:371:MET:HA	21:K4:374:THR:HB	1.85	0.59
21:K4:474:TYR:C	21:K4:478:GLN:HE22	2.10	0.59
21:K4:488:THR:C	21:K4:490:ALA:H	2.11	0.59
4:KA:204:VAL:HG23	4:KA:302:MET:HG3	1.83	0.59
4:KE:401:LYS:HA	4:KE:402:ARG:HH11	1.67	0.59
4:KE:427:ALA:HA	4:KE:430:LYS:HG2	1.83	0.59
3:KH:306:ARG:O	3:KH:306:ARG:NE	2.35	0.59
4:KI:168:GLU:HB2	4:KI:201:ALA:HA	1.85	0.59
4:KK:34:GLY:HA2	4:KK:86:LEU:HD21	1.84	0.59
4:KK:205:ASP:OD2	4:KK:304:LYS:NZ	2.29	0.59
4:LA:1:MET:SD	4:LA:2:ARG:N	2.76	0.59
3:LB:223:GLY:HA3	32:S:406:PRO:HG3	1.85	0.59
4:LC:206:ASN:HA	4:LC:209:ILE:HD12	1.84	0.59
4:LI:396:ASP:OD1	4:LI:397:LEU:N	2.36	0.59
3:LL:5:VAL:HG23	3:LL:130:LEU:HD21	1.85	0.59
3:MB:304:ASP:O	3:MB:307:HIS:ND1	2.32	0.59
4:MI:49:PHE:O	4:MI:53:PHE:N	2.35	0.59
4:NI:46:ASP:OD1	4:NI:50:ASN:ND2	2.33	0.59
4:NI:207:GLU:HB2	4:NI:304:LYS:HZ1	1.66	0.59
28:O3:38:TYR:N	30:Q3:1414:LEU:HG	2.18	0.59
4:OC:34:GLY:HA2	4:OC:86:LEU:HD21	1.85	0.59
3:OD:37:HIS:HA	37:YH:64:ARG:HH12	1.68	0.59
3:OD:380:ARG:O	3:OD:384:GLN:HG2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:OG:171:ILE:HD12	4:OG:204:VAL:HG13	1.84	0.59
3:OL:317:PHE:O	3:OL:354:CYS:N	2.35	0.59
4:PC:81:GLY:O	4:PC:84:ARG:NH1	2.35	0.59
4:PE:154:MET:HE3	4:PE:194:THR:HG22	1.83	0.59
3:PJ:245:GLN:HG3	4:PK:11:GLN:HE22	1.67	0.59
3:PJ:309:ARG:H	3:PJ:372:THR:HG1	1.48	0.59
4:PK:287:SER:OG	4:PK:290:GLU:OE1	2.20	0.59
30:Q1:1360:ALA:HB1	30:Q1:1383:ILE:HB	1.83	0.59
30:Q2:1414:LEU:C	30:Q2:1416:ARG:N	2.58	0.59
3:QD:309:ARG:HE	3:QD:426:GLN:HE21	1.48	0.59
4:QM:52:PHE:HZ	4:QM:239:THR:HB	1.66	0.59
4:QM:187:SER:O	4:QM:190:THR:OG1	2.20	0.59
4:RE:12:ALA:HB1	39:RE:501:GTP:C2	2.37	0.59
4:RG:335:ILE:HD11	4:RG:341:ILE:HG13	1.85	0.59
3:RH:247:ASN:ND2	3:RH:252:LYS:HE3	2.18	0.59
4:RI:6:SER:HA	4:RI:136:LEU:HB2	1.83	0.59
3:SB:114:ASP:OD1	3:SB:115:SER:N	2.36	0.59
3:SD:322:SER:N	3:SD:325:GLU:OE2	2.35	0.59
4:SM:103:TYR:HB2	4:SM:186:ASN:HB2	1.84	0.59
4:TC:30:ILE:HG13	4:TC:53:PHE:HE2	1.67	0.59
4:TG:108:TYR:O	4:TG:112:LYS:NZ	2.25	0.59
4:TG:144:GLY:N	39:TG:501:GTP:O2B	2.35	0.59
3:TL:198:GLU:HA	3:TL:266:PHE:HE2	1.67	0.59
3:TL:296:ALA:HA	3:TL:299:MET:HE3	1.84	0.59
3:UB:290:THR:HG21	3:UB:329:GLN:HB3	1.83	0.59
3:UD:113:VAL:HA	3:UD:116:VAL:HG22	1.83	0.59
3:UF:387:ALA:O	3:UF:390:ARG:NH1	2.34	0.59
4:UG:88:HIS:CE1	4:UG:121:ARG:HH22	2.21	0.59
4:UI:214:ARG:NH1	4:UI:215:ARG:HG3	2.18	0.59
4:UK:192:HIS:HA	4:UK:195:LEU:HD23	1.85	0.59
3:VH:235:GLY:O	3:VH:238:THR:OG1	2.19	0.59
4:VI:207:GLU:HB2	4:VI:304:LYS:HZ1	1.66	0.59
4:VK:119:LEU:HD23	4:VK:122:ILE:HD11	1.85	0.59
3:WF:94:GLN:HB2	35:XJ:75:GLY:HA3	1.85	0.59
34:XA:170:ARG:NH2	34:XA:176:GLU:OE2	2.35	0.59
37:YO:65:ILE:HA	37:YO:68:MET:HE1	1.84	0.59
37:YO:161:LYS:HG3	37:YO:162:VAL:HG23	1.84	0.59
37:YP:161:LYS:HG3	37:YP:162:VAL:HG23	1.85	0.59
1:A:260:ARG:HA	1:A:263:MET:HE3	1.84	0.59
3:AB:324:LYS:HD2	4:AC:221:ARG:HA	1.85	0.59
4:AG:284:GLU:OE2	4:MG:88:HIS:NE2	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AH:215:LEU:O	3:AH:276:ARG:NH1	2.36	0.59
3:AH:269:GLY:HA2	3:AH:300:MET:HE1	1.85	0.59
4:AI:52:PHE:HZ	4:AI:239:THR:HB	1.68	0.59
4:AK:32:PRO:O	4:AK:85:GLN:NE2	2.36	0.59
3:AL:269:GLY:HA3	3:AL:367:PHE:HB3	1.84	0.59
5:B6:202:LYS:H	5:B7:315:HIS:CE1	2.21	0.59
3:BJ:406:MET:O	3:BJ:409:THR:OG1	2.17	0.59
6:C:288:SER:HB2	6:C:330:GLU:HB3	1.83	0.59
7:C1:285:ARG:NH1	7:C1:288:GLU:OE1	2.36	0.59
7:C8:110:SER:O	7:C8:114:ARG:HG2	2.03	0.59
7:C8:275:ARG:NH1	7:C8:276:ASN:O	2.34	0.59
3:CB:268:PRO:HD2	3:CB:301:ALA:HB2	1.84	0.59
7:Ca:214:GLU:HA	7:Ca:217:LYS:HD2	1.85	0.59
8:D4:257:TRP:HA	8:D4:260:PHE:HD2	1.67	0.59
8:D4:339:LEU:HD22	8:D4:395:LEU:HD13	1.84	0.59
8:D7:236:THR:HG23	8:D7:237:GLN:OE1	2.03	0.59
8:D8:62:ALA:HA	11:Ff:380:ARG:HH21	1.68	0.59
8:D8:191:LYS:O	8:D8:194:ILE:HG22	2.02	0.59
4:DA:127:ASP:OD1	4:DA:128:LEU:N	2.36	0.59
4:DC:88:HIS:CE1	4:DC:121:ARG:HH22	2.21	0.59
4:DC:252:LEU:HA	4:DC:255:PHE:CD2	2.38	0.59
3:DF:375:GLN:HA	3:DF:378:PHE:CZ	2.37	0.59
3:EB:385:PHE:HZ	3:EB:408:PHE:HB3	1.66	0.59
3:EH:251:ARG:NH2	4:EI:97:GLU:OE1	2.36	0.59
3:EJ:385:PHE:HZ	3:EJ:408:PHE:HB3	1.68	0.59
4:EK:127:ASP:OD1	4:EK:128:LEU:N	2.36	0.59
11:F5:344:ASN:HA	11:F5:347:ILE:HD12	1.83	0.59
4:FE:326:LYS:NZ	3:FF:208:TYR:O	2.36	0.59
3:FF:117:LEU:HD11	3:FF:154:LYS:HD2	1.83	0.59
4:FI:320:ARG:HH21	4:FI:358:GLN:HG3	1.68	0.59
3:FL:111:GLU:HG2	3:FL:112:LEU:HD12	1.85	0.59
14:G5:639:ILE:O	14:G5:643:VAL:N	2.31	0.59
14:G6:492:GLU:O	14:G6:495:LYS:NZ	2.35	0.59
14:G6:740:ILE:HA	14:G6:744:GLY:HA3	1.84	0.59
4:GC:50:ASN:O	4:GC:64:ARG:NH1	2.35	0.59
4:GC:175:PRO:HA	4:GC:390:ARG:CZ	2.33	0.59
3:GH:12:CYS:HA	39:GH:501:GTP:N2	2.17	0.59
4:HA:34:GLY:HA2	4:HA:86:LEU:HD21	1.85	0.59
3:HF:156:ARG:NH1	3:HF:195:ASN:O	2.34	0.59
4:HG:187:SER:OG	4:HG:188:ILE:HD12	2.03	0.59
3:HH:302:ALA:HB1	3:HH:377:LEU:HD21	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HI:269:LEU:N	4:HI:379:SER:O	2.30	0.59
3:HJ:48:ASN:O	3:HJ:62:ARG:NH2	2.35	0.59
3:HJ:211:CYS:HA	3:HJ:215:LEU:HB2	1.84	0.59
4:HK:371:VAL:HG11	4:HK:374:ALA:HB2	1.84	0.59
4:IA:144:GLY:N	39:IA:501:GTP:O2B	2.33	0.59
4:IA:154:MET:HE3	4:IA:194:THR:HG22	1.84	0.59
4:IG:161:TYR:O	4:IG:166:LYS:NZ	2.35	0.59
3:IH:2:ARG:HA	3:IH:129:CYS:O	2.03	0.59
3:IH:111:GLU:HG2	3:IH:112:LEU:HD12	1.85	0.59
3:IH:156:ARG:NH1	3:IH:195:ASN:O	2.36	0.59
39:IH:501:GTP:O3G	39:IH:501:GTP:O3'	2.12	0.59
4:II:188:ILE:HG22	4:II:421:ALA:HB1	1.84	0.59
3:IL:372:THR:HB	3:IL:375:GLN:HE22	1.67	0.59
19:J1:89:ASP:OD1	19:J1:123:TYR:OH	2.20	0.59
3:JH:84:ILE:O	3:JH:86:ARG:NH1	2.35	0.59
3:JH:170:VAL:N	3:JH:202:ILE:O	2.28	0.59
3:JJ:39:ASP:OD1	3:JJ:43:GLN:NE2	2.35	0.59
4:JK:216:ASN:HD21	4:JK:275:VAL:HG23	1.68	0.59
3:JL:60:VAL:HG23	3:JL:86:ARG:HH11	1.67	0.59
3:KF:111:GLU:HG2	3:KF:112:LEU:HD12	1.85	0.59
22:L1:128:LYS:HE3	4:MC:215:ARG:HA	1.84	0.59
4:LC:392:ASP:OD1	4:LC:393:HIS:N	2.36	0.59
4:LI:216:ASN:HB2	4:LI:276:ILE:HD12	1.85	0.59
3:MB:6:HIS:HE1	3:MB:136:THR:HG23	1.67	0.59
3:MF:16:ILE:HD13	3:MF:226:ASN:HD22	1.68	0.59
3:MH:211:CYS:HA	3:MH:215:LEU:HB2	1.85	0.59
4:MI:214:ARG:NH1	4:MI:215:ARG:HG3	2.18	0.59
3:NB:7:LEU:HB2	3:NB:135:LEU:HG	1.85	0.59
4:NC:273:ALA:N	4:NC:377:MET:HE1	2.18	0.59
4:NE:91:GLN:HG3	4:NE:121:ARG:HH21	1.68	0.59
4:NE:271:THR:O	4:NE:377:MET:N	2.26	0.59
3:NF:2:ARG:HB3	3:NF:131:GLN:NE2	2.18	0.59
3:NJ:378:PHE:HA	3:NJ:381:ILE:HG12	1.85	0.59
3:OB:374:ILE:HA	3:OB:377:LEU:HD13	1.83	0.59
3:OB:392:LYS:HB2	3:OB:395:LEU:HD12	1.84	0.59
29:P2:98:PHE:O	29:P2:101:ARG:NH1	2.34	0.59
4:PE:32:PRO:O	4:PE:85:GLN:NE2	2.36	0.59
3:PL:60:VAL:HG23	3:PL:86:ARG:HH11	1.67	0.59
3:PL:302:ALA:HB1	3:PL:377:LEU:HD11	1.83	0.59
30:Q1:1352:THR:HG22	30:Q1:1353:ASP:H	1.66	0.59
30:Q2:1456:ARG:O	30:Q2:1460:THR:HG23	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:QC:208:ALA:N	4:QC:304:LYS:HZ1	2.01	0.59
3:QD:28:HIS:O	3:QD:43:GLN:NE2	2.35	0.59
4:QI:46:ASP:OD1	4:QI:50:ASN:ND2	2.35	0.59
4:QK:15:GLN:OE1	39:QK:501:GTP:N1	2.33	0.59
4:QM:1:MET:N	4:QM:130:THR:OG1	2.35	0.59
4:QM:254:GLU:O	4:QM:258:ASN:ND2	2.27	0.59
3:RD:111:GLU:HG2	3:RD:112:LEU:HD12	1.85	0.59
4:RE:216:ASN:ND2	4:RE:275:VAL:O	2.35	0.59
3:RH:309:ARG:N	3:RH:372:THR:OG1	2.28	0.59
3:SB:268:PRO:HD2	3:SB:301:ALA:HB2	1.83	0.59
3:SB:372:THR:HB	3:SB:375:GLN:HE22	1.67	0.59
3:SB:415:MET:O	3:SB:419:VAL:N	2.34	0.59
4:SC:1:MET:SD	4:SC:2:ARG:N	2.75	0.59
3:SJ:170:VAL:N	3:SJ:202:ILE:O	2.32	0.59
3:SJ:322:SER:N	3:SJ:325:GLU:OE2	2.32	0.59
4:SM:287:SER:OG	4:SM:290:GLU:OE1	2.20	0.59
4:TG:12:ALA:HB1	39:TG:501:GTP:C2	2.38	0.59
4:TI:54:SER:HB2	4:TI:62:VAL:HB	1.84	0.59
3:TJ:77:ARG:O	3:TJ:77:ARG:NH1	2.31	0.59
3:TL:161:ASP:O	3:TL:251:ARG:NH2	2.35	0.59
4:UA:252:LEU:HD13	4:UA:255:PHE:HD2	1.68	0.59
3:UD:60:VAL:HG23	3:UD:86:ARG:HH11	1.67	0.59
4:UG:53:PHE:O	4:UG:64:ARG:NH1	2.36	0.59
3:UJ:295:ASP:HB2	3:UJ:298:ASN:HB2	1.85	0.59
3:VB:295:ASP:HB2	3:VB:298:ASN:HB2	1.85	0.59
39:VB:501:GTP:O3G	39:VB:501:GTP:O3'	2.20	0.59
3:VD:12:CYS:HA	39:VD:501:GTP:N2	2.17	0.59
3:VF:389:PHE:HE1	3:VF:408:PHE:HD2	1.51	0.59
4:VG:319:TYR:HB2	4:VG:355:ILE:HD13	1.83	0.59
4:VG:370:LYS:HZ2	33:W:207:ARG:HG3	1.67	0.59
4:VK:46:ASP:OD1	4:VK:50:ASN:ND2	2.35	0.59
4:VK:192:HIS:HA	4:VK:195:LEU:HD23	1.85	0.59
4:WA:32:PRO:O	4:WA:85:GLN:NE2	2.35	0.59
3:WD:54:ALA:HB3	3:WD:58:LYS:HB3	1.84	0.59
3:WD:117:LEU:HD11	3:WD:154:LYS:HD2	1.83	0.59
4:WI:236:SER:O	4:WI:243:ARG:NH2	2.33	0.59
34:XC:91:VAL:HG22	34:XC:154:VAL:HG23	1.85	0.59
34:XC:92:GLN:HB3	34:XC:153:ARG:HG3	1.84	0.59
34:XF:75:PHE:HA	34:XF:134:PHE:O	2.03	0.59
35:XH:119:LEU:HD11	35:XH:159:LEU:HD23	1.85	0.59
37:YR:4:VAL:HG11	37:YR:83:PHE:CZ	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:Z:241:ASN:HA	36:Z:244:TYR:HD2	1.67	0.59
1:A:183:GLU:O	1:A:187:TYR:N	2.27	0.59
3:AD:170:VAL:N	3:AD:202:ILE:O	2.36	0.59
3:AH:73:MET:HE1	3:AH:92:PHE:HB3	1.85	0.59
3:AH:84:ILE:O	3:AH:86:ARG:NH1	2.35	0.59
4:AI:8:HIS:CE1	4:AI:21:TRP:HH2	2.20	0.59
4:AI:53:PHE:O	4:AI:64:ARG:NH1	2.36	0.59
3:AL:73:MET:HA	3:AL:76:VAL:HG12	1.85	0.59
5:B2:214:THR:OG1	5:B2:217:GLN:NE2	2.34	0.59
5:B4:91:SER:OG	5:B4:240:ARG:NH2	2.35	0.59
5:B6:77:THR:O	5:B6:80:LYS:HG2	2.03	0.59
5:B7:345:LEU:O	5:B7:349:ILE:HG12	2.03	0.59
3:BD:247:ASN:HB3	3:BD:252:LYS:HG2	1.85	0.59
3:BH:19:LYS:NZ	3:BH:223:GLY:O	2.35	0.59
3:BH:117:LEU:HD21	3:BH:154:LYS:HD2	1.84	0.59
7:C8:372:ILE:O	7:C8:375:ILE:HG22	2.03	0.59
4:CC:166:LYS:N	4:CC:199:ASP:OD2	2.36	0.59
4:CG:203:MET:N	4:CG:203:MET:SD	2.75	0.59
4:CI:33:ASP:OD1	4:CI:34:GLY:N	2.35	0.59
3:CL:286:VAL:HG21	3:CL:325:GLU:HG3	1.85	0.59
7:Cb:285:ARG:HH21	10:E1:17:THR:H	1.51	0.59
7:Cc:389:LYS:HE3	7:Cc:431:ILE:HG22	1.85	0.59
6:D:159:HIS:HA	6:D:162:ARG:HH11	1.68	0.59
8:D4:263:ASP:O	8:D4:267:ARG:HG2	2.02	0.59
8:D9:295:LEU:HD13	11:Fh:403:PRO:HG2	1.85	0.59
3:DD:323:MET:HE1	4:DE:227:LEU:HD22	1.85	0.59
3:DF:372:THR:HB	3:DF:375:GLN:HE22	1.68	0.59
3:DJ:392:LYS:HB2	3:DJ:395:LEU:HD13	1.85	0.59
4:EA:272:TYR:CZ	4:EA:274:PRO:HG2	2.38	0.59
4:EC:252:LEU:HA	4:EC:255:PHE:HD2	1.67	0.59
39:EC:501:GTP:O4'	39:EC:501:GTP:N3	2.32	0.59
4:EE:113:GLU:OE1	4:EE:113:GLU:N	2.35	0.59
3:EF:3:GLU:HG2	3:EF:130:LEU:HD23	1.85	0.59
4:EI:108:TYR:CD2	4:EI:413:MET:HE1	2.38	0.59
11:F3:180:ALA:O	11:F3:184:VAL:HG23	2.03	0.59
11:F4:171:ASP:O	11:F4:174:LYS:HG3	2.01	0.59
11:F6:365:LEU:HG	11:F6:448:LYS:HZ1	1.66	0.59
11:F7:293:PRO:HA	11:F7:296:TRP:HE3	1.68	0.59
4:FC:135:PHE:HD2	4:FC:166:LYS:HG3	1.68	0.59
3:FD:130:LEU:HB3	3:FD:162:ARG:HH11	1.68	0.59
4:FE:396:ASP:OD1	4:FE:397:LEU:N	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FF:84:ILE:O	3:FF:86:ARG:NH1	2.36	0.59
3:FJ:317:PHE:HB3	3:FJ:321:MET:HE3	1.85	0.59
4:FK:256:GLN:O	4:FK:260:VAL:HG12	2.02	0.59
11:Fl:234:LYS:HA	11:Fl:237:ASP:HB2	1.85	0.59
13:G1:312:VAL:HG23	13:G1:313:LEU:HD23	1.85	0.59
13:G3:246:TYR:HB2	13:G3:346:ASP:HB3	1.83	0.59
13:G3:267:TYR:N	13:G3:272:THR:O	2.34	0.59
14:G5:172:PRO:HA	14:G5:175:LYS:HD2	1.85	0.59
14:G6:24:GLN:NE2	4:MK:46:ASP:OD2	2.36	0.59
14:G6:657:ASP:O	14:G6:660:ARG:HG2	2.03	0.59
4:GA:88:HIS:CE1	4:GA:121:ARG:HH22	2.21	0.59
3:GF:194:GLU:OE1	3:GF:195:ASN:ND2	2.36	0.59
3:GL:11:GLN:HA	3:GL:14:ASN:ND2	2.18	0.59
4:HA:210:TYR:OH	4:HA:221:ARG:NH2	2.34	0.59
3:HF:235:GLY:O	3:HF:238:THR:OG1	2.20	0.59
4:HK:34:GLY:HA2	4:HK:86:LEU:HD21	1.85	0.59
4:IA:171:ILE:HD12	4:IA:204:VAL:HG13	1.84	0.59
3:ID:87:PRO:HG2	4:JC:280:LYS:HZ2	1.68	0.59
3:IH:114:ASP:OD1	3:IH:115:SER:N	2.36	0.59
3:IJ:117:LEU:HD11	3:IJ:154:LYS:HD2	1.83	0.59
18:J:94:ARG:NH1	18:J:135:LEU:O	2.36	0.59
3:JH:269:GLY:N	3:JH:367:PHE:O	2.36	0.59
4:JI:1:MET:N	4:JI:130:THR:OG1	2.35	0.59
4:JI:287:SER:OG	4:JI:290:GLU:OE1	2.21	0.59
21:K2:363:ARG:O	21:K2:366:LYS:HG2	2.02	0.59
21:K3:336:LEU:HD23	21:K3:461:VAL:HB	1.85	0.59
4:KE:50:ASN:O	4:KE:64:ARG:NH1	2.35	0.59
22:L2:29:SER:HB3	22:L2:31:PHE:CE2	2.38	0.59
22:L3:88:VAL:HG23	4:LI:264:ARG:NH2	2.18	0.59
4:LA:244:PHE:HB2	4:LA:356:ASN:HD21	1.67	0.59
3:LB:269:GLY:HA2	3:LB:300:MET:HE1	1.85	0.59
4:LC:53:PHE:O	4:LC:64:ARG:NH1	2.36	0.59
3:LD:328:GLU:HA	3:LD:331:LEU:HB2	1.84	0.59
3:LJ:290:THR:HG21	3:LJ:329:GLN:HB3	1.85	0.59
4:MG:12:ALA:O	39:MG:501:GTP:N1	2.36	0.59
4:MI:33:ASP:OD1	4:MI:34:GLY:N	2.36	0.59
4:MI:192:HIS:HA	4:MI:195:LEU:HD23	1.84	0.59
3:MJ:277:GLY:O	3:MJ:280:GLN:NE2	2.35	0.59
3:ML:28:HIS:NE2	3:ML:43:GLN:O	2.36	0.59
4:MM:192:HIS:HA	4:MM:195:LEU:HD23	1.84	0.59
4:MM:245:ASP:O	4:MM:356:ASN:ND2	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:OG:392:ASP:OD1	4:OG:393:HIS:N	2.35	0.59
3:OH:249:ASP:O	3:OH:252:LYS:HB3	2.03	0.59
4:OI:25:CYS:HA	4:OI:30:ILE:HD13	1.84	0.59
29:P3:466:CYS:O	29:P3:478:THR:OG1	2.15	0.59
4:PA:34:GLY:HA2	4:PA:86:LEU:HD21	1.85	0.59
4:PA:214:ARG:NH1	4:PA:215:ARG:HG3	2.17	0.59
3:PB:344:TRP:CD1	4:PC:401:LYS:HD2	2.38	0.59
3:PD:328:GLU:OE1	3:PD:332:ASN:ND2	2.36	0.59
3:PF:324:LYS:HD2	4:PG:221:ARG:HA	1.85	0.59
4:PI:6:SER:HA	4:PI:136:LEU:HB2	1.85	0.59
4:PI:229:ARG:HE	4:PI:368:LEU:HD22	1.68	0.59
4:PK:320:ARG:N	4:PK:374:ALA:O	2.30	0.59
4:PK:371:VAL:HG11	4:PK:374:ALA:HB2	1.84	0.59
4:PM:88:HIS:HB3	4:PM:91:GLN:HB2	1.83	0.59
4:PM:306:ASP:OD2	4:PM:309:HIS:ND1	2.35	0.59
30:Q1:1414:LEU:CA	30:Q1:1418:MET:HE3	2.33	0.59
30:Q3:1458:PHE:HB3	30:Q3:1463:LYS:HE3	1.84	0.59
3:QB:39:ASP:HA	37:YB:17:LEU:HD11	1.84	0.59
3:QB:111:GLU:HG2	3:QB:112:LEU:HD12	1.85	0.59
3:QD:142:GLY:N	39:QD:501:GTP:O3B	2.36	0.59
3:QL:252:LYS:HG2	4:QM:100:ALA:HA	1.85	0.59
4:RG:53:PHE:O	4:RG:64:ARG:NH1	2.36	0.59
4:RK:98:ASP:O	4:RK:105:ARG:NH2	2.30	0.59
4:RK:264:ARG:HG2	4:RK:265:ILE:H	1.67	0.59
4:RK:433:GLU:O	4:RK:437:VAL:N	2.34	0.59
3:RL:33:THR:O	3:RL:58:LYS:NZ	2.35	0.59
4:SC:205:ASP:OD2	4:SC:304:LYS:NZ	2.26	0.59
3:SF:3:GLU:HG2	3:SF:130:LEU:HD23	1.85	0.59
3:SF:15:GLN:HG2	3:SF:222:TYR:CE2	2.38	0.59
3:SJ:286:VAL:HG21	3:SJ:325:GLU:HG3	1.85	0.59
4:SK:216:ASN:HB2	4:SK:276:ILE:HD12	1.85	0.59
3:SL:139:LEU:HD21	3:SL:170:VAL:HG22	1.84	0.59
4:TC:88:HIS:CE1	4:TC:121:ARG:HH22	2.21	0.59
4:TI:103:TYR:HB2	4:TI:186:ASN:HB2	1.84	0.59
4:UC:236:SER:O	4:UC:243:ARG:NH2	2.30	0.59
3:UD:3:GLU:HG2	3:UD:130:LEU:HD13	1.85	0.59
3:UD:174:LYS:HG3	3:UD:175:VAL:HG12	1.84	0.59
4:UG:51:THR:HG23	4:UG:52:PHE:CD2	2.38	0.59
4:UI:22:GLU:O	4:UI:26:LEU:HD23	2.03	0.59
4:UI:33:ASP:OD1	4:UI:34:GLY:N	2.36	0.59
4:VG:12:ALA:HB1	39:VG:501:GTP:C2	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VH:323:MET:SD	3:VH:324:LYS:NZ	2.71	0.59
4:VK:5:ILE:HD13	4:VK:64:ARG:HB3	1.85	0.59
3:VL:68:LEU:HD12	3:VL:97:ALA:HB2	1.84	0.59
33:W:178:GLN:OE1	33:W:182:LYS:NZ	2.36	0.59
4:WA:5:ILE:HD13	4:WA:64:ARG:HB3	1.85	0.59
4:WA:166:LYS:HE2	4:WA:198:SER:HA	1.83	0.59
3:WF:273:LEU:H	3:WF:292:GLN:HE22	1.51	0.59
4:WI:2:ARG:HA	4:WI:133:GLN:HE22	1.67	0.59
3:WJ:380:ARG:O	3:WJ:384:GLN:HG2	2.03	0.59
34:XF:3:LYS:HE3	35:XM:62:ARG:HG2	1.84	0.59
35:XL:160:VAL:HG23	35:XL:161:VAL:HG13	1.85	0.59
37:YH:43:ILE:HD11	37:YH:134:TYR:HE1	1.67	0.59
37:YS:114:ARG:NH2	37:YS:133:HIS:O	2.35	0.59
37:YT:5:LYS:HE3	37:YT:9:ARG:HH22	1.68	0.59
37:YT:114:ARG:NH2	37:YT:133:HIS:O	2.35	0.59
2:A1:284:LYS:NZ	2:A2:31:ARG:HE	2.01	0.58
4:AE:1:MET:N	4:AE:130:THR:OG1	2.36	0.58
4:AI:154:MET:HE1	4:AI:197:HIS:HB2	1.85	0.58
1:B:321:GLN:OE1	3:HL:359:ARG:NH1	2.36	0.58
5:B7:203:VAL:HG23	8:D8:118:GLN:HE22	1.68	0.58
5:B7:318:LEU:HA	5:B7:338:LEU:HD13	1.85	0.58
5:B8:201:LEU:HD13	5:B9:315:HIS:CD2	2.38	0.58
3:BD:282:ARG:NH2	3:BD:292:GLN:OE1	2.27	0.58
4:BE:401:LYS:C	4:BE:402:ARG:HD3	2.28	0.58
4:BG:89:PRO:HD2	4:CG:280:LYS:NZ	2.18	0.58
3:BH:247:ASN:HB3	3:BH:252:LYS:HG2	1.85	0.58
3:BJ:174:LYS:HG3	3:BJ:175:VAL:HG12	1.85	0.58
3:BJ:254:ALA:HA	3:BJ:257:MET:HG2	1.85	0.58
7:C3:209:ASP:OD2	7:C3:465:THR:OG1	2.20	0.58
7:C4:372:ILE:O	7:C4:375:ILE:HG22	2.03	0.58
7:C4:442:GLU:HA	7:C4:445:LEU:HD12	1.83	0.58
3:CB:323:MET:SD	3:CB:324:LYS:NZ	2.73	0.58
3:CH:250:LEU:O	3:CH:254:ALA:N	2.31	0.58
4:CI:401:LYS:C	4:CI:402:ARG:HD3	2.27	0.58
4:CK:371:VAL:HG11	4:CK:374:ALA:HB2	1.85	0.58
3:CL:33:THR:HG22	14:G6:349:ARG:HH12	1.68	0.58
8:D3:214:ASN:OD1	8:D3:215:TRP:N	2.37	0.58
8:D3:406:GLU:HA	8:D3:409:ARG:HG2	1.84	0.58
8:D4:311:LEU:HB3	8:D4:419:LYS:NZ	2.17	0.58
9:E:620:MET:O	9:E:624:HIS:ND1	2.35	0.58
3:EB:77:ARG:HD3	3:EB:90:PHE:CZ	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EC:192:HIS:HA	4:EC:195:LEU:HD23	1.85	0.58
4:EE:220:GLU:O	4:EE:221:ARG:NE	2.36	0.58
4:EE:224:TYR:HE2	39:EE:501:GTP:C5	2.20	0.58
4:EG:135:PHE:HE2	4:EG:157:LEU:HD11	1.67	0.58
4:EG:220:GLU:O	4:EG:221:ARG:NE	2.36	0.58
3:EH:32:PRO:O	3:EH:83:GLN:NE2	2.29	0.58
4:EI:346:TRP:CD1	3:EJ:390:ARG:HH22	2.21	0.58
11:F6:364:ILE:O	11:F6:368:ILE:HG23	2.02	0.58
11:F7:385:LYS:NZ	11:F7:385:LYS:O	2.35	0.58
3:FH:7:LEU:HD13	3:FH:64:VAL:HB	1.85	0.58
4:FI:185:TYR:HA	4:FI:395:PHE:HE1	1.68	0.58
3:FL:345:ILE:HD12	3:FL:346:PRO:HD2	1.85	0.58
4:GA:12:ALA:O	39:GA:501:GTP:N1	2.37	0.58
4:GA:285:GLN:HE22	4:GA:287:SER:HB3	1.68	0.58
4:GE:203:MET:SD	4:GE:203:MET:N	2.75	0.58
3:GF:375:GLN:C	3:GF:379:LYS:HZ2	2.10	0.58
4:GG:213:CYS:SG	4:GG:222:PRO:HG3	2.43	0.58
4:GG:427:ALA:HA	4:GG:430:LYS:HG2	1.85	0.58
3:GH:173:PRO:O	3:GH:380:ARG:NH2	2.36	0.58
4:GI:139:HIS:CE1	4:GI:168:GLU:HB2	2.38	0.58
4:GK:396:ASP:OD1	4:GK:397:LEU:N	2.36	0.58
15:H1:212:LEU:HG	15:H1:213:ILE:N	2.18	0.58
4:HA:88:HIS:CE1	4:HA:121:ARG:HH22	2.21	0.58
4:HE:264:ARG:HG2	4:HE:265:ILE:H	1.68	0.58
3:HF:4:ILE:HD11	3:HF:131:GLN:HB2	1.85	0.58
39:HH:501:GTP:O3G	39:HH:501:GTP:O3'	2.18	0.58
4:HI:22:GLU:O	4:HI:26:LEU:HG	2.03	0.58
4:IC:21:TRP:HD1	4:IC:53:PHE:HE1	1.51	0.58
4:IG:273:ALA:N	4:IG:377:MET:HE1	2.17	0.58
4:IM:70:LEU:HB3	4:IM:97:GLU:O	2.01	0.58
19:J3:153:ILE:HG21	19:J3:167:MET:HE1	1.84	0.58
4:JA:371:VAL:HG11	4:JA:374:ALA:HB2	1.84	0.58
4:JG:34:GLY:HA2	4:JG:86:LEU:HD21	1.84	0.58
3:JJ:330:MET:HG2	3:JJ:349:VAL:HG11	1.84	0.58
4:JK:33:ASP:OD1	4:JK:34:GLY:N	2.36	0.58
3:KB:322:SER:N	3:KB:325:GLU:OE2	2.36	0.58
3:KD:362:LYS:NZ	3:KD:363:MET:SD	2.77	0.58
3:KD:415:MET:O	3:KD:419:VAL:HG23	2.02	0.58
3:KF:406:MET:O	3:KF:409:THR:OG1	2.18	0.58
3:KL:273:LEU:H	3:KL:292:GLN:HE22	1.50	0.58
22:L3:105:PHE:CZ	3:LJ:424:GLN:HB3	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LB:16:ILE:HD13	3:LB:226:ASN:ND2	2.17	0.58
4:LG:103:TYR:HB2	4:LG:186:ASN:HB2	1.85	0.58
4:MC:388:TRP:HB3	4:MC:425:LEU:HD11	1.85	0.58
3:MD:73:MET:HA	3:MD:76:VAL:HG22	1.85	0.58
3:MD:390:ARG:NH2	28:O1:40:GLN:O	2.36	0.58
4:ME:260:VAL:HG23	4:ME:265:ILE:O	2.03	0.58
3:MH:141:GLY:HA3	39:MH:501:GTP:H5"	1.84	0.58
4:MI:93:ILE:HG13	4:MI:118:VAL:HG12	1.85	0.58
3:MJ:324:LYS:HD3	4:MK:210:TYR:CE1	2.38	0.58
3:ML:12:CYS:HB3	39:ML:501:GTP:H5'	1.85	0.58
4:MM:316:CYS:N	4:MM:378:LEU:O	2.23	0.58
26:N1:68:LYS:NZ	26:N1:70:ASP:HB3	2.17	0.58
3:NB:13:GLY:HA2	3:NB:16:ILE:HB	1.85	0.58
4:NC:1:MET:SD	4:NC:2:ARG:N	2.76	0.58
3:ND:295:ASP:HB2	3:ND:298:ASN:HB2	1.85	0.58
3:NJ:101:TRP:HB2	3:NJ:184:ASN:HD22	1.68	0.58
3:NL:217:LEU:HD11	3:NL:220:PRO:HB3	1.84	0.58
28:O1:11:GLU:OE1	28:O1:14:TYR:OH	2.18	0.58
4:OA:203:MET:HE1	4:OA:267:PHE:HB3	1.84	0.58
4:OE:103:TYR:HB2	4:OE:186:ASN:HB2	1.85	0.58
4:OG:306:ASP:OD2	4:OG:309:HIS:ND1	2.36	0.58
3:OJ:291:GLN:NE2	3:OJ:295:ASP:OD1	2.36	0.58
29:P3:398:ILE:HB	29:P3:412:ILE:HB	1.85	0.58
4:PA:207:GLU:HB2	4:PA:304:LYS:HZ1	1.67	0.58
3:PB:39:ASP:OD1	3:PB:43:GLN:NE2	2.36	0.58
3:PD:317:PHE:O	3:PD:354:CYS:N	2.31	0.58
4:PK:208:ALA:N	4:PK:304:LYS:HZ1	2.01	0.58
30:Q1:1344:LEU:HD11	30:Q1:1441:LEU:HD22	1.83	0.58
3:QF:107:THR:OG1	3:QF:401:GLU:OE2	2.20	0.58
4:RC:395:PHE:HD2	4:RC:422:ARG:HH11	1.50	0.58
4:RE:203:MET:HE1	4:RE:267:PHE:HB3	1.84	0.58
3:RF:398:TYR:HB3	3:RF:403:MET:HB2	1.84	0.58
4:RI:220:GLU:HG2	4:RI:221:ARG:HG2	1.84	0.58
3:RJ:269:GLY:HA2	3:RJ:300:MET:HE1	1.85	0.58
32:S:389:TYR:OH	32:S:390:ARG:NH2	2.35	0.58
4:SE:295:CYS:HB2	4:SE:377:MET:HE3	1.83	0.58
39:SJ:501:GTP:O3G	39:SJ:501:GTP:O3'	2.16	0.58
4:SK:338:LYS:HZ2	4:SK:340:THR:H	1.51	0.58
3:SL:257:MET:HG3	3:SL:258:VAL:HG23	1.85	0.58
3:TB:262:ARG:NH2	3:TB:425:TYR:OH	2.36	0.58
3:TB:426:GLN:NE2	3:TB:427:ASP:OD2	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TF:190:HIS:NE2	3:TF:414:ASN:OD1	2.36	0.58
3:TN:374:ILE:HA	3:TN:377:LEU:HD13	1.84	0.58
3:UB:47:ILE:HG21	3:UB:59:TYR:CE2	2.38	0.58
4:UC:203:MET:SD	4:UC:203:MET:N	2.74	0.58
3:UD:296:ALA:HA	3:UD:299:MET:HE3	1.85	0.58
4:UE:401:LYS:C	4:UE:402:ARG:HD3	2.27	0.58
3:UH:372:THR:HG21	3:UH:426:GLN:HG3	1.85	0.58
3:UL:102:ALA:O	3:UL:106:TYR:N	2.31	0.58
3:UL:286:VAL:HG21	3:UL:325:GLU:HG3	1.85	0.58
3:VF:295:ASP:HB2	3:VF:298:ASN:HB2	1.85	0.58
4:VK:34:GLY:HA2	4:VK:86:LEU:HD21	1.85	0.58
3:WD:385:PHE:HZ	3:WD:408:PHE:HB3	1.68	0.58
4:WG:287:SER:OG	4:WG:290:GLU:OE1	2.21	0.58
34:XC:84:LYS:NZ	35:XI:241:ASN:H	2.00	0.58
37:YO:23:PHE:HA	37:YO:26:ILE:HD12	1.83	0.58
37:YO:76:LEU:O	37:YO:80:CYS:N	2.36	0.58
4:AI:49:PHE:HB2	4:AI:53:PHE:HB2	1.85	0.58
4:AI:67:PHE:O	4:AI:93:ILE:N	2.35	0.58
4:AM:388:TRP:HB3	4:AM:425:LEU:HD11	1.85	0.58
5:B1:123:ARG:NH2	5:B1:129:VAL:O	2.26	0.58
5:B5:46:ARG:HH12	5:B6:300:LEU:N	2.01	0.58
3:BD:392:LYS:HB2	3:BD:395:LEU:HD13	1.85	0.58
4:BI:154:MET:HE1	4:BI:197:HIS:HB2	1.84	0.58
4:BK:120:ASP:OD2	4:BK:121:ARG:NH1	2.36	0.58
4:BM:392:ASP:OD1	4:BM:393:HIS:N	2.35	0.58
7:C1:111:ASN:OD1	7:C1:114:ARG:NH1	2.34	0.58
7:C2:200:PHE:O	7:C2:204:LYS:NZ	2.31	0.58
7:C6:176:ASP:HA	7:C6:179:ARG:HE	1.68	0.58
3:CD:12:CYS:HA	39:CD:501:GTP:N2	2.17	0.58
3:CD:19:LYS:NZ	3:CD:223:GLY:O	2.36	0.58
4:CE:33:ASP:OD1	4:CE:34:GLY:N	2.36	0.58
3:CJ:28:HIS:O	3:CJ:43:GLN:NE2	2.36	0.58
4:CM:226:ASN:OD1	15:H6:33:ASN:ND2	2.36	0.58
7:Ca:473:CYS:HG	7:Ca:477:ARG:HE	1.51	0.58
6:D:301:GLU:O	6:D:305:GLU:N	2.34	0.58
6:D:349:PRO:HA	6:D:352:ALA:HB3	1.85	0.58
8:D4:197:ALA:O	8:D4:201:ILE:HG12	2.02	0.58
8:D7:276:VAL:HG22	8:D7:279:ARG:HH22	1.69	0.58
8:D8:340:LYS:O	8:D8:344:LYS:NZ	2.36	0.58
3:DB:374:ILE:HA	3:DB:377:LEU:HD13	1.85	0.58
4:DC:46:ASP:OD1	4:DC:50:ASN:ND2	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DC:89:PRO:HG3	15:H2:282:ILE:HD11	1.85	0.58
4:DC:287:SER:OG	4:DC:290:GLU:OE1	2.18	0.58
4:DE:89:PRO:HD2	4:EE:280:LYS:NZ	2.17	0.58
4:DE:326:LYS:NZ	3:DF:208:TYR:O	2.35	0.58
3:DF:11:GLN:HE21	39:DF:501:GTP:H3'	1.69	0.58
3:DJ:292:GLN:O	3:DJ:298:ASN:ND2	2.33	0.58
4:DK:224:TYR:CE1	39:DK:501:GTP:C5	2.87	0.58
3:DL:285:THR:O	3:DL:288:GLU:HG3	2.03	0.58
4:EC:49:PHE:HB2	4:EC:53:PHE:HB2	1.84	0.58
3:ED:390:ARG:HH12	3:ED:391:ARG:HH21	1.51	0.58
4:EE:271:THR:HB	4:EE:377:MET:HE3	1.84	0.58
3:EF:330:MET:HA	3:EF:333:VAL:HG22	1.85	0.58
3:EH:84:ILE:O	3:EH:86:ARG:NH1	2.36	0.58
3:EJ:173:PRO:O	3:EJ:380:ARG:NH2	2.37	0.58
4:EK:272:TYR:CZ	4:EK:274:PRO:HG2	2.39	0.58
3:EL:250:LEU:O	3:EL:254:ALA:N	2.25	0.58
11:F3:95:TRP:O	11:F3:98:SER:OG	2.19	0.58
11:F7:172:THR:O	11:F7:175:ARG:HD3	2.03	0.58
3:FB:172:SER:OG	3:FB:205:GLU:OE2	2.20	0.58
4:FE:50:ASN:O	4:FE:64:ARG:NH1	2.36	0.58
3:FH:216:LYS:O	3:FH:276:ARG:NH2	2.36	0.58
3:FJ:7:LEU:HD13	3:FJ:64:VAL:HB	1.85	0.58
11:Fa:292:ILE:HG23	11:Fa:294:GLU:H	1.67	0.58
11:Fe:291:SER:OG	11:Fe:295:THR:OG1	2.20	0.58
11:Fj:360:GLN:O	11:Fj:364:ILE:HG12	2.03	0.58
11:Fl:371:ALA:O	11:Fl:375:ILE:HG12	2.03	0.58
11:Fm:210:ASN:HA	11:Fm:213:LYS:HE2	1.84	0.58
14:G5:583:ARG:HH22	14:G5:725:PRO:HG3	1.66	0.58
14:G6:336:GLN:OE1	14:G6:368:TYR:OH	2.15	0.58
3:GB:386:THR:O	3:GB:390:ARG:HG2	2.02	0.58
4:GE:36:MET:HE3	4:GE:61:HIS:CE1	2.38	0.58
4:HG:108:TYR:O	4:HG:112:LYS:NZ	2.24	0.58
3:HL:73:MET:HE1	3:HL:92:PHE:HB2	1.85	0.58
4:IC:34:GLY:HA2	4:IC:86:LEU:HD21	1.84	0.58
4:IC:141:PHE:HB2	4:IC:173:PRO:HD3	1.85	0.58
3:IF:130:LEU:HB2	3:IF:162:ARG:HH11	1.68	0.58
3:IJ:322:SER:N	3:IJ:325:GLU:OE2	2.35	0.58
4:IM:6:SER:HA	4:IM:136:LEU:HB2	1.84	0.58
19:J2:63:GLU:O	19:J2:65:ILE:N	2.36	0.58
4:JA:34:GLY:HA2	4:JA:86:LEU:HD21	1.85	0.58
39:JB:501:GTP:O3G	39:JB:501:GTP:O3'	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JD:132:GLY:HA3	3:JD:163:ILE:H	1.69	0.58
4:JI:171:ILE:HD12	4:JI:204:VAL:HG13	1.84	0.58
4:KG:214:ARG:NH1	4:KG:215:ARG:HG3	2.17	0.58
4:KK:49:PHE:HB2	4:KK:53:PHE:HB2	1.85	0.58
3:KL:306:ARG:O	3:KL:306:ARG:NE	2.37	0.58
22:L4:69:GLU:OE1	22:L4:71:THR:OG1	2.20	0.58
3:LD:4:ILE:HD11	3:LD:131:GLN:HB2	1.84	0.58
3:LD:392:LYS:HB2	3:LD:395:LEU:HD13	1.85	0.58
39:LF:501:GTP:O3G	39:LF:501:GTP:O3'	2.21	0.58
3:MB:357:PRO:HB3	3:MB:362:LYS:HA	1.84	0.58
4:MG:144:GLY:N	39:MG:501:GTP:O2B	2.36	0.58
3:MH:83:GLN:O	3:MH:86:ARG:NH2	2.36	0.58
4:MK:116:ASP:OD1	4:MK:117:LEU:N	2.36	0.58
3:ML:247:ASN:HB3	3:ML:252:LYS:HG2	1.85	0.58
3:ND:118:ASP:OD1	3:ND:121:ARG:NH1	2.36	0.58
4:OA:12:ALA:HB1	39:OA:501:GTP:C2	2.37	0.58
3:OB:32:PRO:O	3:OB:83:GLN:NE2	2.35	0.58
3:OD:84:ILE:O	3:OD:86:ARG:NH1	2.36	0.58
4:OE:189:LEU:HA	4:OE:192:HIS:CE1	2.38	0.58
3:OF:12:CYS:HB3	39:OF:501:GTP:H5'	1.85	0.58
3:OF:415:MET:O	3:OF:419:VAL:N	2.33	0.58
4:PG:203:MET:SD	4:PG:203:MET:N	2.75	0.58
4:PM:254:GLU:O	4:PM:258:ASN:ND2	2.26	0.58
3:QB:198:GLU:HA	3:QB:266:PHE:HE2	1.68	0.58
3:QL:317:PHE:O	3:QL:354:CYS:N	2.33	0.58
4:RE:32:PRO:O	4:RE:85:GLN:NE2	2.36	0.58
4:RG:245:ASP:O	4:RG:356:ASN:ND2	2.36	0.58
4:RI:317:MET:HE1	4:RI:351:PHE:HB2	1.86	0.58
3:SB:286:VAL:HG21	3:SB:325:GLU:HG3	1.84	0.58
4:SC:9:VAL:HG11	4:SC:150:ALA:HB2	1.85	0.58
3:SD:372:THR:HG21	3:SD:426:GLN:HG3	1.84	0.58
3:SH:70:PRO:HA	3:SH:73:MET:HE2	1.85	0.58
4:SM:216:ASN:ND2	4:SM:275:VAL:O	2.36	0.58
4:SM:271:THR:HB	4:SM:377:MET:HB2	1.86	0.58
3:TF:289:LEU:O	3:TF:293:MET:N	2.36	0.58
3:TH:323:MET:SD	3:TH:323:MET:N	2.75	0.58
4:TK:287:SER:OG	4:TK:290:GLU:OE1	2.20	0.58
4:TM:12:ALA:HB1	39:TM:501:GTP:C2	2.37	0.58
3:TN:302:ALA:HB1	3:TN:377:LEU:HD11	1.86	0.58
3:UB:103:LYS:O	3:UB:108:GLU:N	2.27	0.58
3:UD:246:LEU:HB2	3:UD:352:ALA:HB1	1.83	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UF:178:THR:HB	3:UF:181:GLU:HB2	1.84	0.58
4:UG:175:PRO:HA	4:UG:390:ARG:CZ	2.33	0.58
4:VA:206:ASN:HA	4:VA:209:ILE:HD12	1.83	0.58
4:VC:172:TYR:N	4:VC:204:VAL:O	2.26	0.58
3:VD:42:LEU:HD12	3:VD:243:PRO:HD2	1.83	0.58
3:VD:68:LEU:HD12	3:VD:97:ALA:HB2	1.86	0.58
4:VE:46:ASP:HA	4:VE:50:ASN:HB3	1.83	0.58
4:VG:371:VAL:HG11	4:VG:374:ALA:HB2	1.85	0.58
3:VH:316:VAL:HG22	3:VH:352:ALA:HB3	1.85	0.58
4:VK:269:LEU:N	4:VK:379:SER:O	2.32	0.58
33:W:363:ARG:HH12	33:W:368:GLU:H	1.50	0.58
3:WB:182:PRO:HB2	3:WB:388:MET:HE1	1.84	0.58
4:WK:135:PHE:HD2	4:WK:166:LYS:HG3	1.68	0.58
34:XF:22:LEU:HD11	34:XF:27:LYS:HD3	1.84	0.58
34:XF:79:ILE:HG23	34:XF:131:GLN:HE22	1.68	0.58
35:XK:167:GLY:H	35:XK:219:TYR:HE2	1.50	0.58
37:YB:20:GLN:OE1	37:YB:21:GLN:NE2	2.36	0.58
3:AH:266:PHE:HB3	3:AH:368:ILE:HD11	1.84	0.58
4:AI:220:GLU:O	4:AI:221:ARG:NE	2.36	0.58
4:AM:286:LEU:HD11	4:AM:373:ARG:H	1.68	0.58
1:B:373:GLU:HA	1:B:376:LYS:HB3	1.85	0.58
5:B3:36:HIS:O	5:B3:40:GLN:NE2	2.36	0.58
5:B4:106:LYS:NZ	5:B4:151:LEU:HD12	2.18	0.58
5:B5:13:ARG:HH12	5:B6:130:ARG:HG2	1.68	0.58
4:BC:216:ASN:HB2	4:BC:276:ILE:HD12	1.84	0.58
3:BD:385:PHE:HA	3:BD:388:MET:HE2	1.84	0.58
3:BF:164:MET:HG2	3:BF:197:ASP:OD2	2.03	0.58
3:BH:194:GLU:OE1	3:BH:195:ASN:ND2	2.36	0.58
4:BI:262:TYR:OH	3:BJ:391:ARG:O	2.22	0.58
7:C4:218:GLU:OE1	7:C4:342:LYS:NZ	2.36	0.58
7:C4:445:LEU:HA	7:C4:448:LEU:HD12	1.85	0.58
7:C7:372:ILE:O	7:C7:375:ILE:HG22	2.04	0.58
7:C8:402:GLU:OE1	7:C8:402:GLU:N	2.34	0.58
3:CF:64:VAL:HA	3:CF:89:ASN:HB3	1.84	0.58
4:CI:396:ASP:OD1	4:CI:397:LEU:N	2.36	0.58
4:CK:272:TYR:CZ	4:CK:274:PRO:HG2	2.38	0.58
4:CM:224:TYR:HB3	4:CM:228:ASN:ND2	2.18	0.58
8:D2:263:ASP:O	8:D2:267:ARG:HG2	2.03	0.58
8:D3:397:ASP:OD1	8:D3:398:ALA:N	2.35	0.58
8:D4:224:ILE:HG22	8:D5:360:ARG:HH22	1.67	0.58
8:D9:332:GLN:HE22	8:Da:78:ARG:HD3	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DH:292:GLN:O	3:DH:298:ASN:ND2	2.35	0.58
4:EA:49:PHE:O	4:EA:53:PHE:N	2.35	0.58
4:EA:269:LEU:N	4:EA:379:SER:O	2.28	0.58
4:EC:53:PHE:O	4:EC:64:ARG:NH1	2.36	0.58
4:EC:154:MET:HE3	4:EC:194:THR:HG22	1.85	0.58
3:ED:60:VAL:HG23	3:ED:86:ARG:HH11	1.69	0.58
3:ED:211:CYS:HA	3:ED:215:LEU:HB2	1.86	0.58
3:ED:257:MET:O	3:ED:259:PRO:HD3	2.02	0.58
4:EE:38:SER:OG	14:G5:526:ASP:OD1	2.20	0.58
4:EG:11:GLN:N	4:EG:69:ASP:OD1	2.37	0.58
4:EI:205:ASP:OD2	4:EI:304:LYS:NZ	2.27	0.58
11:F3:163:LEU:HD23	11:F3:311:ARG:HH11	1.68	0.58
11:F4:248:HIS:ND1	11:F8:196:TYR:HE1	2.01	0.58
11:F6:159:GLU:O	11:F6:163:LEU:HG	2.04	0.58
11:F7:122:ARG:NH2	11:Fc:158:TYR:OH	2.35	0.58
11:F7:129:GLN:O	11:F7:133:GLN:NE2	2.36	0.58
3:FB:309:ARG:H	3:FB:372:THR:HG1	1.48	0.58
3:FL:101:TRP:HB2	3:FL:184:ASN:HD22	1.67	0.58
12:G:225:GLU:OE1	12:G:229:ASN:ND2	2.36	0.58
12:G:339:GLN:OE1	12:G:343:ASN:ND2	2.32	0.58
14:G4:734:ARG:HE	14:G4:735:TYR:H	1.52	0.58
14:G5:154:ILE:O	14:G5:186:ASN:ND2	2.30	0.58
14:G6:560:ARG:NH1	14:G6:563:THR:HG21	2.18	0.58
3:GF:380:ARG:O	3:GF:384:GLN:HG2	2.03	0.58
4:GI:319:TYR:HB2	4:GI:355:ILE:HD13	1.85	0.58
3:GJ:167:PHE:HD1	3:GJ:200:TYR:HD2	1.51	0.58
3:GL:211:CYS:HA	3:GL:215:LEU:HB2	1.85	0.58
4:HA:317:MET:HE1	4:HA:377:MET:HG3	1.84	0.58
4:HA:371:VAL:HG11	4:HA:374:ALA:HB2	1.84	0.58
4:HC:87:PHE:HB3	4:HC:92:LEU:HD21	1.84	0.58
4:HG:287:SER:OG	4:HG:290:GLU:OE1	2.19	0.58
4:HI:192:HIS:HA	4:HI:195:LEU:HD23	1.86	0.58
4:IA:87:PHE:HB3	4:IA:92:LEU:HD11	1.85	0.58
3:IB:52:ASN:OD1	3:IB:62:ARG:NH1	2.36	0.58
3:IH:322:SER:N	3:IH:325:GLU:OE2	2.36	0.58
3:IJ:64:VAL:HA	3:IJ:89:ASN:HB3	1.85	0.58
18:J:164:TYR:HD1	18:J:168:TYR:HD2	1.51	0.58
4:JA:234:ILE:HD11	4:JA:272:TYR:HB2	1.85	0.58
3:JB:375:GLN:HA	3:JB:378:PHE:CZ	2.38	0.58
4:JC:42:ILE:HG21	4:JC:59:GLY:HA2	1.84	0.58
4:JC:68:VAL:HA	4:JC:93:ILE:HB	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JD:278:SER:HA	3:JD:281:TYR:HB2	1.84	0.58
4:JE:203:MET:HE1	4:JE:267:PHE:HB3	1.85	0.58
4:JG:33:ASP:OD1	4:JG:34:GLY:N	2.36	0.58
4:JI:279:GLU:HA	4:JI:282:TYR:HD2	1.68	0.58
3:JJ:28:HIS:ND1	3:JJ:43:GLN:HB2	2.19	0.58
4:JK:32:PRO:O	4:JK:85:GLN:NE2	2.35	0.58
3:JL:412:GLU:OE1	3:JL:416:ASN:ND2	2.36	0.58
21:K3:347:LYS:O	21:K3:351:THR:OG1	2.16	0.58
3:KB:385:PHE:HZ	3:KB:408:PHE:HB3	1.67	0.58
3:KH:33:THR:O	3:KH:58:LYS:NZ	2.36	0.58
4:KI:53:PHE:O	4:KI:64:ARG:NH1	2.35	0.58
4:KI:144:GLY:N	39:KI:501:GTP:O2B	2.35	0.58
4:KI:392:ASP:OD1	4:KI:393:HIS:N	2.35	0.58
4:KI:402:ARG:HH21	31:R2:124:ASN:HB2	1.68	0.58
22:L1:105:PHE:CZ	3:LB:424:GLN:HB3	2.38	0.58
4:LA:236:SER:O	4:LA:243:ARG:NH2	2.31	0.58
24:M1:54:THR:HA	24:M1:92:TYR:H	1.68	0.58
4:MG:423:GLU:HA	4:MG:426:ALA:HB3	1.85	0.58
3:MJ:258:VAL:HB	4:MK:407:TRP:HZ2	1.68	0.58
3:ML:13:GLY:HA2	3:ML:16:ILE:HB	1.86	0.58
3:ML:316:VAL:HG22	3:ML:352:ALA:HB3	1.83	0.58
3:ML:379:LYS:O	3:ML:382:SER:OG	2.18	0.58
3:NH:77:ARG:O	3:NH:77:ARG:NH1	2.33	0.58
4:NI:34:GLY:HA2	4:NI:86:LEU:HD21	1.85	0.58
4:OA:91:GLN:HG3	4:OA:121:ARG:HH21	1.68	0.58
4:OC:53:PHE:O	4:OC:64:ARG:NH1	2.36	0.58
4:OE:273:ALA:N	4:OE:377:MET:HE1	2.18	0.58
4:OG:34:GLY:HA2	4:OG:86:LEU:HD21	1.84	0.58
4:OI:203:MET:HE1	4:OI:267:PHE:HB3	1.84	0.58
4:PC:68:VAL:HG12	4:PC:93:ILE:HB	1.84	0.58
4:PE:84:ARG:NH2	37:YG:124:HIS:O	2.36	0.58
3:PJ:172:SER:OG	3:PJ:205:GLU:OE2	2.16	0.58
3:PJ:286:VAL:HG21	3:PJ:325:GLU:HG3	1.85	0.58
30:Q1:1490:PHE:O	30:Q1:1494:LEU:HG	2.03	0.58
3:QB:155:ILE:HA	3:QB:158:GLU:HB2	1.83	0.58
4:QI:216:ASN:HB2	4:QI:276:ILE:HD12	1.86	0.58
3:QJ:330:MET:HA	3:QJ:333:VAL:HG22	1.85	0.58
4:RE:273:ALA:HB2	4:RE:295:CYS:HB3	1.84	0.58
3:RF:282:ARG:NH2	3:RF:292:GLN:OE1	2.27	0.58
3:RH:322:SER:N	3:RH:325:GLU:OE2	2.36	0.58
4:RM:264:ARG:NH1	4:RM:265:ILE:HB	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:SB:46:ARG:HH12	4:SC:73:THR:HG23	1.68	0.58
3:SJ:182:PRO:HB2	3:SJ:388:MET:HE1	1.85	0.58
3:TB:187:LEU:HD21	3:TB:408:PHE:HE1	1.68	0.58
3:TD:117:LEU:HD11	3:TD:154:LYS:HD2	1.84	0.58
4:TE:262:TYR:OH	3:TF:391:ARG:O	2.21	0.58
3:TF:324:LYS:NZ	4:TG:222:PRO:O	2.29	0.58
4:TG:33:ASP:OD1	4:TG:34:GLY:N	2.37	0.58
4:TI:16:ILE:HD11	4:TI:138:PHE:HB3	1.86	0.58
3:TJ:12:CYS:HB3	39:TJ:501:GTP:O4'	2.04	0.58
3:TL:139:LEU:HD21	3:TL:170:VAL:HG22	1.84	0.58
3:TL:222:TYR:CD1	3:TL:225:LEU:HD22	2.39	0.58
33:U:262:VAL:HG22	4:UI:282:TYR:HE1	1.68	0.58
3:UJ:286:VAL:HG21	3:UJ:325:GLU:HG3	1.85	0.58
3:VB:46:ARG:HH12	4:VC:73:THR:HG23	1.68	0.58
3:VD:2:ARG:HA	3:VD:129:CYS:O	2.03	0.58
4:VG:168:GLU:HB2	4:VG:201:ALA:HA	1.85	0.58
3:VH:345:ILE:HD11	4:VI:181:VAL:HG11	1.85	0.58
3:VJ:141:GLY:HA3	39:VJ:501:GTP:H5"	1.85	0.58
4:WA:144:GLY:N	39:WA:501:GTP:O2B	2.35	0.58
4:WC:234:ILE:HD11	4:WC:272:TYR:HB2	1.83	0.58
4:WE:172:TYR:HB2	4:WE:203:MET:HB2	1.85	0.58
3:WF:2:ARG:HB3	3:WF:131:GLN:NE2	2.19	0.58
4:WG:269:LEU:N	4:WG:379:SER:O	2.31	0.58
3:WH:12:CYS:HA	39:WH:501:GTP:N2	2.17	0.58
3:WJ:83:GLN:O	3:WJ:86:ARG:NH2	2.36	0.58
3:WJ:311:LEU:HG	3:WJ:312:THR:HG23	1.84	0.58
34:XB:78:MET:HE3	34:XB:132:ILE:HG13	1.85	0.58
34:XE:115:LYS:O	34:XE:144:TYR:OH	2.20	0.58
35:XH:130:ILE:HG13	35:XH:131:PRO:HD3	1.85	0.58
35:XL:232:VAL:HB	35:XL:235:TYR:HB2	1.84	0.58
37:YB:47:GLU:OE1	37:YB:107:SER:OG	2.21	0.58
37:YD:106:GLN:HG2	37:YD:107:SER:H	1.69	0.58
37:YF:125:LEU:HD13	37:YF:134:TYR:HB3	1.84	0.58
37:YS:161:LYS:HG3	37:YS:162:VAL:HG23	1.83	0.58
2:A2:252:ASP:OD1	2:A2:255:ARG:NH2	2.32	0.58
3:AB:139:LEU:HD21	3:AB:170:VAL:HG22	1.86	0.58
3:AB:322:SER:N	3:AB:325:GLU:OE2	2.35	0.58
3:AJ:412:GLU:OE1	3:AJ:416:ASN:ND2	2.35	0.58
4:AM:89:PRO:HD2	4:BM:280:LYS:NZ	2.18	0.58
1:B:321:GLN:HA	3:HL:359:ARG:HH12	1.67	0.58
5:B3:312:LYS:HZ2	5:B4:199:ILE:HG13	1.66	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B6:39:ARG:HH22	5:B7:293:LEU:HD12	1.69	0.58
5:B8:192:LEU:O	5:B9:317:ARG:NH2	2.34	0.58
4:BC:88:HIS:HA	4:CC:283:HIS:HE1	1.68	0.58
3:BH:322:SER:N	3:BH:325:GLU:OE2	2.36	0.58
4:BK:102:ASN:HB3	4:BK:105:ARG:HB2	1.86	0.58
4:BK:205:ASP:OD2	4:BK:304:LYS:NZ	2.34	0.58
3:BL:350:LYS:HE3	4:BM:181:VAL:H	1.66	0.58
7:C2:153:LEU:HB3	7:C2:265:LEU:HD11	1.84	0.58
7:C7:281:VAL:HB	7:C8:394:LYS:HE2	1.85	0.58
3:CD:132:GLY:HA3	3:CD:163:ILE:HB	1.85	0.58
4:CK:89:PRO:HD2	4:DI:280:LYS:HZ3	1.68	0.58
4:CK:99:ALA:HA	4:CK:105:ARG:HE	1.68	0.58
3:CL:247:ASN:HB3	3:CL:252:LYS:HE3	1.86	0.58
4:CM:16:ILE:HG12	4:CM:231:ILE:HD11	1.83	0.58
4:CM:25:CYS:HB2	4:CM:30:ILE:HB	1.83	0.58
7:Cd:236:HIS:HA	7:Cd:239:LYS:HE3	1.84	0.58
6:D:286:GLY:N	6:D:332:GLN:O	2.35	0.58
8:D4:320:TYR:O	8:D4:324:LYS:NZ	2.34	0.58
8:D8:376:ARG:O	8:D8:379:SER:OG	2.11	0.58
3:DD:4:ILE:HD11	3:DD:131:GLN:HB2	1.83	0.58
4:DE:306:ASP:OD2	4:DE:309:HIS:ND1	2.35	0.58
3:DF:175:VAL:HG22	3:DF:177:ASP:H	1.68	0.58
3:DH:269:GLY:N	3:DH:367:PHE:O	2.36	0.58
4:DK:15:GLN:OE1	39:DK:501:GTP:N1	2.35	0.58
3:EB:39:ASP:OD1	3:EB:43:GLN:NE2	2.36	0.58
3:ED:214:THR:O	3:ED:276:ARG:NH1	2.21	0.58
3:EF:322:SER:N	3:EF:325:GLU:OE2	2.36	0.58
4:EI:33:ASP:OD1	4:EI:34:GLY:N	2.36	0.58
4:EI:70:LEU:HA	4:EI:95:GLY:HA3	1.85	0.58
4:EK:70:LEU:HA	4:EK:95:GLY:HA3	1.84	0.58
4:EK:144:GLY:N	39:EK:501:GTP:O2B	2.33	0.58
9:F:276:ASP:OD1	9:F:277:ARG:N	2.34	0.58
11:F2:199:GLU:OE1	11:F6:248:HIS:NE2	2.35	0.58
11:F2:200:LYS:O	11:F6:252:ARG:NH1	2.37	0.58
11:F3:201:ARG:NH1	11:F3:205:ASP:O	2.36	0.58
3:FH:286:VAL:HA	3:FH:363:MET:HE1	1.85	0.58
4:FI:1:MET:O	4:FI:131:GLY:HA3	2.03	0.58
3:FJ:282:ARG:NH2	3:FJ:292:GLN:OE1	2.28	0.58
11:Fb:433:ARG:NH2	11:Fc:123:ILE:HD12	2.18	0.58
11:Fk:163:LEU:HD22	11:Fk:250:LEU:HD22	1.86	0.58
11:Fl:136:GLU:O	11:Fl:139:SER:OG	2.20	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Fm:203:GLY:N	11:Fm:205:ASP:OD1	2.31	0.58
14:G4:267:PRO:HD2	14:G4:270:SER:HB3	1.85	0.58
14:G4:591:MET:HE2	14:G4:593:LYS:HZ1	1.68	0.58
14:G4:634:ASN:HD21	14:G4:637:MET:HE3	1.68	0.58
14:G6:388:ARG:NH1	14:G6:389:LYS:O	2.37	0.58
4:GC:279:GLU:HA	4:GC:282:TYR:CD2	2.38	0.58
3:GD:39:ASP:OD1	3:GD:43:GLN:NE2	2.36	0.58
4:GK:88:HIS:CE1	4:GK:121:ARG:HH22	2.21	0.58
3:GL:8:GLN:HE22	3:GL:63:ALA:HB1	1.67	0.58
4:HA:316:CYS:N	4:HA:378:LEU:O	2.36	0.58
4:HC:88:HIS:CE1	4:HC:121:ARG:HH22	2.21	0.58
3:HH:2:ARG:HA	3:HH:129:CYS:O	2.02	0.58
3:IB:375:GLN:HA	3:IB:378:PHE:CZ	2.38	0.58
4:IC:1:MET:O	4:IC:133:GLN:NE2	2.32	0.58
4:IC:207:GLU:HB2	4:IC:304:LYS:HZ1	1.66	0.58
3:IF:252:LYS:O	3:IF:256:ASN:ND2	2.37	0.58
3:IF:330:MET:HG3	3:IF:349:VAL:HG11	1.85	0.58
4:IG:53:PHE:O	4:IG:64:ARG:NH1	2.37	0.58
4:IG:154:MET:HE1	4:IG:197:HIS:HB2	1.84	0.58
3:IH:419:VAL:O	3:IH:423:GLN:NE2	2.36	0.58
3:IJ:139:LEU:HD21	3:IJ:170:VAL:HG22	1.84	0.58
3:IJ:172:SER:OG	3:IJ:205:GLU:OE2	2.15	0.58
19:J2:184:TYR:HB3	19:J2:188:LEU:HD23	1.86	0.58
19:J3:86:PRO:O	19:J3:90:HIS:ND1	2.36	0.58
4:JK:245:ASP:O	4:JK:356:ASN:ND2	2.37	0.58
3:JL:372:THR:HG21	3:JL:426:GLN:HG3	1.85	0.58
21:K2:314:MET:O	21:K2:318:GLU:N	2.34	0.58
21:K2:406:GLY:HA3	21:K3:286:ILE:HD11	1.85	0.58
21:K5:29:SER:O	21:K5:33:HIS:ND1	2.37	0.58
3:KB:390:ARG:NH1	3:KB:391:ARG:HB2	2.18	0.58
4:KG:208:ALA:H	4:KG:304:LYS:HZ1	1.48	0.58
3:KH:173:PRO:O	3:KH:380:ARG:NH2	2.37	0.58
3:KH:269:GLY:HA2	3:KH:300:MET:HE1	1.84	0.58
3:KH:357:PRO:O	3:KH:359:ARG:NH2	2.35	0.58
22:L2:200:LEU:O	22:L2:204:TRP:N	2.32	0.58
3:LB:250:LEU:O	3:LB:254:ALA:N	2.32	0.58
3:LJ:70:PRO:HA	3:LJ:73:MET:HE3	1.86	0.58
4:LK:53:PHE:O	4:LK:64:ARG:NH1	2.36	0.58
3:LL:277:GLY:O	3:LL:280:GLN:NE2	2.36	0.58
4:MC:171:ILE:HD12	4:MC:204:VAL:HG13	1.83	0.58
4:ME:192:HIS:HA	4:ME:195:LEU:HD23	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MF:316:VAL:HG22	3:MF:352:ALA:HB3	1.85	0.58
4:MG:273:ALA:HB2	4:MG:295:CYS:HB3	1.86	0.58
4:MI:285:GLN:HE22	4:MI:287:SER:HB3	1.67	0.58
4:MM:306:ASP:O	4:MM:309:HIS:HB3	2.04	0.58
3:NB:77:ARG:O	3:NB:77:ARG:NH1	2.28	0.58
3:ND:12:CYS:HB3	39:ND:501:GTP:O4'	2.02	0.58
3:ND:392:LYS:HB2	3:ND:395:LEU:HD13	1.85	0.58
4:NG:214:ARG:NH1	4:NG:215:ARG:HG3	2.18	0.58
4:NK:396:ASP:OD1	4:NK:397:LEU:N	2.36	0.58
3:OF:28:HIS:ND1	3:OF:43:GLN:HB2	2.19	0.58
4:OG:229:ARG:HE	4:OG:368:LEU:HD22	1.68	0.58
4:OG:397:LEU:HD11	4:OG:398:MET:HE2	1.85	0.58
4:OI:88:HIS:HB3	4:OI:91:GLN:HB2	1.84	0.58
3:PB:37:HIS:HA	37:YC:64:ARG:HH12	1.68	0.58
3:PB:406:MET:O	3:PB:409:THR:OG1	2.19	0.58
3:PH:246:LEU:HB2	3:PH:352:ALA:HB1	1.85	0.58
4:PK:34:GLY:HA2	4:PK:86:LEU:HD21	1.84	0.58
4:QC:216:ASN:ND2	4:QC:275:VAL:O	2.36	0.58
3:QH:415:MET:O	3:QH:419:VAL:HG23	2.03	0.58
4:QK:9:VAL:HA	4:QK:68:VAL:HG23	1.84	0.58
4:QM:248:LEU:HD23	4:QM:355:ILE:HG22	1.84	0.58
4:RE:7:ILE:N	4:RE:136:LEU:O	2.32	0.58
3:RF:13:GLY:HA2	3:RF:16:ILE:HB	1.85	0.58
4:SG:399:TYR:OH	4:SG:415:GLU:HB2	2.04	0.58
3:SJ:101:TRP:HB2	3:SJ:184:ASN:HD22	1.68	0.58
3:SL:13:GLY:HA2	3:SL:16:ILE:HB	1.84	0.58
4:SM:30:ILE:HA	4:SM:36:MET:HE1	1.85	0.58
3:TD:345:ILE:HD11	4:TE:181:VAL:HG11	1.85	0.58
4:TE:161:TYR:O	4:TE:166:LYS:NZ	2.32	0.58
3:TL:143:THR:HG22	3:TL:147:MET:HE3	1.85	0.58
4:UI:72:PRO:HA	4:UI:75:VAL:HG12	1.85	0.58
4:UI:371:VAL:HG11	4:UI:374:ALA:HB2	1.84	0.58
4:UK:214:ARG:NH1	4:UK:215:ARG:HG3	2.18	0.58
4:VI:89:PRO:HD2	4:WI:280:LYS:NZ	2.19	0.58
3:WD:214:THR:HG21	3:WD:273:LEU:HB3	1.85	0.58
4:WE:326:LYS:NZ	3:WF:208:TYR:O	2.37	0.58
3:WF:380:ARG:O	3:WF:384:GLN:HG2	2.02	0.58
4:WG:108:TYR:CD2	4:WG:413:MET:HE1	2.37	0.58
3:WH:322:SER:N	3:WH:325:GLU:OE2	2.36	0.58
33:X:386:GLN:HE22	33:X:390:ARG:HH21	1.51	0.58
35:XI:188:ASN:HD21	35:XI:206:GLY:H	1.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:YB:49:VAL:HG11	37:YB:70:MET:HE3	1.86	0.58
37:YH:33:ARG:NH2	37:YH:134:TYR:OH	2.37	0.58
37:YH:90:THR:O	37:YH:94:ASN:N	2.25	0.58
37:YI:41:ARG:NH1	37:YI:48:GLN:OE1	2.35	0.58
2:A3:183:THR:HG23	2:A3:184:ILE:HD12	1.85	0.58
3:AB:13:GLY:HA2	3:AB:16:ILE:HB	1.84	0.58
4:AC:8:HIS:CE1	4:AC:138:PHE:CD2	2.92	0.58
4:AC:264:ARG:O	4:AC:266:HIS:ND1	2.35	0.58
4:AE:316:CYS:HB3	4:AE:378:LEU:HB3	1.84	0.58
4:AM:46:ASP:OD1	4:AM:50:ASN:ND2	2.32	0.58
5:B2:95:ALA:HB1	5:B2:243:ILE:HD11	1.85	0.58
5:B4:169:ARG:NH2	10:E1:118:PHE:O	2.36	0.58
3:BF:54:ALA:HB3	3:BF:58:LYS:HB3	1.85	0.58
4:BG:52:PHE:HZ	4:BG:239:THR:HB	1.67	0.58
3:BH:28:HIS:ND1	3:BH:28:HIS:O	2.35	0.58
3:BH:46:ARG:HH12	4:BI:73:THR:HG23	1.69	0.58
4:BK:234:ILE:HD11	4:BK:272:TYR:HB2	1.84	0.58
6:C:237:MET:O	6:C:242:PRO:HD2	2.03	0.58
6:C:348:ASP:HB3	6:C:351:ILE:HG12	1.86	0.58
7:C3:284:PHE:CZ	7:C4:397:GLN:HG2	2.38	0.58
4:CE:68:VAL:HA	4:CE:93:ILE:HB	1.84	0.58
4:CE:188:ILE:HG13	4:CE:421:ALA:HB1	1.84	0.58
7:Ca:405:ARG:HH22	10:E1:5:ARG:NH1	2.01	0.58
7:Cc:184:GLY:O	7:Cc:188:THR:HG23	2.04	0.58
7:Cc:205:ARG:NE	7:Cc:209:ASP:O	2.36	0.58
8:D4:194:ILE:HG23	10:E3:134:TRP:HE1	1.69	0.58
8:D4:276:VAL:HG22	8:D4:279:ARG:HH22	1.68	0.58
8:D4:307:ARG:NH1	8:D4:310:GLU:OE1	2.37	0.58
8:D7:329:ILE:HD12	8:D7:409:ARG:HH11	1.68	0.58
8:D8:326:LEU:HA	8:D8:329:ILE:HD12	1.85	0.58
4:DA:401:LYS:C	4:DA:402:ARG:HD3	2.28	0.58
3:DD:172:SER:OG	3:DD:205:GLU:OE2	2.20	0.58
4:DE:401:LYS:C	4:DE:402:ARG:HD3	2.28	0.58
3:DH:372:THR:HG21	3:DH:426:GLN:HG3	1.85	0.58
4:DK:171:ILE:HD12	4:DK:204:VAL:HG13	1.84	0.58
9:E:648:TRP:CD1	9:E:650:ASP:H	2.21	0.58
3:EF:2:ARG:HB3	3:EF:131:GLN:NE2	2.18	0.58
3:EJ:374:ILE:HG23	3:EJ:377:LEU:HD12	1.84	0.58
4:EK:316:CYS:N	4:EK:378:LEU:O	2.27	0.58
11:F9:447:THR:O	11:F9:451:LEU:HG	2.02	0.58
3:FD:284:LEU:HD12	3:FD:363:MET:HG2	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FE:263:PRO:O	4:FE:264:ARG:HD3	2.02	0.58
4:FE:419:SER:HA	4:FE:422:ARG:HE	1.68	0.58
3:FH:15:GLN:NE2	39:FH:501:GTP:C2	2.67	0.58
3:GJ:80:PRO:O	3:GJ:83:GLN:NE2	2.35	0.58
3:GL:197:ASP:OD1	3:GL:198:GLU:N	2.36	0.58
15:H6:217:ALA:O	15:H6:219:SER:N	2.31	0.58
4:HA:118:VAL:HA	4:HA:121:ARG:HG2	1.85	0.58
4:HC:224:TYR:HB3	4:HC:228:ASN:ND2	2.18	0.58
3:HD:379:LYS:O	3:HD:382:SER:OG	2.16	0.58
4:HE:54:SER:HB2	4:HE:62:VAL:HB	1.83	0.58
3:HF:269:GLY:O	3:HF:367:PHE:N	2.30	0.58
3:HH:256:ASN:HB3	3:HH:350:LYS:HG3	1.84	0.58
3:IB:344:TRP:NE1	4:IC:401:LYS:HD2	2.18	0.58
4:IC:412:GLY:O	4:IC:413:MET:HE2	2.04	0.58
4:JA:52:PHE:HZ	4:JA:239:THR:HB	1.69	0.58
3:JB:389:PHE:CZ	3:JB:405:GLU:HB2	2.39	0.58
3:JD:84:ILE:O	3:JD:86:ARG:NH1	2.36	0.58
3:JF:375:GLN:HA	3:JF:378:PHE:CZ	2.38	0.58
3:JJ:374:ILE:HA	3:JJ:377:LEU:HD13	1.85	0.58
3:JL:269:GLY:N	3:JL:367:PHE:O	2.37	0.58
21:K1:362:HIS:O	21:K1:365:MET:HG2	2.03	0.58
21:K3:127:HIS:O	21:K3:131:ARG:NE	2.35	0.58
21:K4:354:LEU:HA	21:K4:357:MET:HE3	1.86	0.58
4:KE:206:ASN:HA	4:KE:209:ILE:HD12	1.85	0.58
3:KH:91:VAL:HG11	3:KH:116:VAL:HG12	1.86	0.58
3:KJ:33:THR:O	3:KJ:58:LYS:NZ	2.35	0.58
22:L1:193:ARG:HE	22:L1:250:ILE:HG12	1.68	0.58
3:LB:12:CYS:HA	39:LB:501:GTP:N2	2.18	0.58
3:LH:315:ALA:HA	3:LH:367:PHE:HA	1.86	0.58
4:LI:401:LYS:C	4:LI:402:ARG:HD3	2.28	0.58
3:LL:250:LEU:HD13	3:LL:253:LEU:HD12	1.84	0.58
3:MB:372:THR:HG21	3:MB:426:GLN:HG3	1.84	0.58
4:MC:320:ARG:HA	4:MC:356:ASN:HB3	1.85	0.58
3:NF:374:ILE:HA	3:NF:377:LEU:HD13	1.84	0.58
4:NK:207:GLU:HB2	4:NK:304:LYS:NZ	2.18	0.58
4:OE:1:MET:O	4:OE:131:GLY:HA3	2.03	0.58
4:OK:234:ILE:HD11	4:OK:272:TYR:HB2	1.85	0.58
3:OL:271:ALA:HB1	3:OL:272:PRO:HD2	1.85	0.58
4:PE:46:ASP:OD1	4:PE:50:ASN:ND2	2.35	0.58
4:PG:338:LYS:HZ2	4:PG:340:THR:H	1.49	0.58
4:PI:254:GLU:O	4:PI:258:ASN:ND2	2.24	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PJ:306:ARG:NE	3:PJ:306:ARG:O	2.34	0.58
4:QC:331:ALA:O	4:QC:334:THR:OG1	2.22	0.58
3:QH:211:CYS:HA	3:QH:215:LEU:HB2	1.84	0.58
3:QJ:111:GLU:HG2	3:QJ:112:LEU:HD12	1.85	0.58
4:QK:6:SER:HA	4:QK:136:LEU:HB3	1.85	0.58
3:QL:322:SER:OG	3:QL:324:LYS:NZ	2.36	0.58
4:RC:50:ASN:O	4:RC:64:ARG:NH1	2.36	0.58
3:RF:11:GLN:HE21	39:RF:501:GTP:H3'	1.68	0.58
32:S:398:TRP:HA	32:S:405:LEU:HD11	1.85	0.58
4:SE:144:GLY:N	39:SE:501:GTP:O2B	2.35	0.58
4:SI:67:PHE:HB2	4:SI:92:LEU:HD13	1.86	0.58
4:SK:53:PHE:O	4:SK:64:ARG:NH1	2.36	0.58
4:SK:419:SER:HA	4:SK:422:ARG:NH1	2.19	0.58
4:SM:180:ALA:HB3	4:SM:183:GLU:HG3	1.86	0.58
3:TD:245:GLN:HG3	4:TE:11:GLN:HE22	1.67	0.58
3:TF:111:GLU:HG2	3:TF:112:LEU:HD12	1.84	0.58
3:TJ:235:GLY:O	3:TJ:238:THR:OG1	2.19	0.58
4:TM:144:GLY:N	39:TM:501:GTP:O2B	2.33	0.58
3:TN:292:GLN:O	3:TN:298:ASN:ND2	2.35	0.58
4:UA:262:TYR:HE1	3:UB:393:ALA:HA	1.68	0.58
3:UB:2:ARG:HA	3:UB:129:CYS:O	2.04	0.58
3:UB:156:ARG:CZ	3:UB:164:MET:HE1	2.33	0.58
4:UE:371:VAL:HG11	4:UE:374:ALA:HB2	1.85	0.58
4:UG:388:TRP:HB3	4:UG:425:LEU:HD11	1.85	0.58
4:VA:52:PHE:HZ	4:VA:239:THR:HB	1.68	0.58
4:VE:172:TYR:N	4:VE:204:VAL:O	2.28	0.58
4:VI:203:MET:SD	4:VI:203:MET:N	2.76	0.58
3:VJ:46:ARG:HH22	4:VK:73:THR:HA	1.67	0.58
4:WA:49:PHE:O	4:WA:53:PHE:N	2.36	0.58
3:WB:77:ARG:O	3:WB:77:ARG:NH1	2.30	0.58
3:WH:412:GLU:HA	3:WH:415:MET:HE2	1.85	0.58
3:WJ:247:ASN:HB3	3:WJ:252:LYS:HG2	1.86	0.58
35:XI:182:ASN:O	35:XI:185:LYS:NZ	2.36	0.58
37:YA:128:ASP:HA	37:YA:131:ARG:HD3	1.84	0.58
37:YF:116:LYS:NZ	37:YF:117:TYR:O	2.37	0.58
4:AI:208:ALA:H	4:AI:304:LYS:NZ	2.00	0.58
3:AJ:267:MET:HB3	3:AJ:299:MET:HE1	1.86	0.58
3:AJ:379:LYS:O	3:AJ:382:SER:OG	2.13	0.58
3:AL:372:THR:HB	3:AL:375:GLN:HE22	1.68	0.58
4:AM:308:ARG:HE	26:N4:74:ARG:CZ	2.17	0.58
5:B2:363:LEU:HG	5:B2:367:PHE:HE2	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B4:106:LYS:HZ2	5:B4:151:LEU:HD12	1.68	0.58
3:BF:302:ALA:HB1	3:BF:377:LEU:HD11	1.85	0.58
3:BH:111:GLU:HG2	3:BH:112:LEU:HD22	1.84	0.58
3:BH:374:ILE:HA	3:BH:377:LEU:HD13	1.86	0.58
7:C8:347:PHE:CE2	7:C8:351:ILE:HD11	2.38	0.58
3:CB:12:CYS:HA	39:CB:501:GTP:HN22	1.67	0.58
3:CD:173:PRO:O	3:CD:380:ARG:NH2	2.37	0.58
4:CI:139:HIS:CD2	4:CI:170:ALA:HB2	2.37	0.58
3:CL:47:ILE:H	15:H6:224:PHE:HE2	1.50	0.58
7:Cc:389:LYS:HZ2	7:Cc:430:THR:HG22	1.68	0.58
4:DC:203:MET:HE1	4:DC:267:PHE:HB3	1.86	0.58
3:DF:1:MET:HA	4:DG:96:LYS:HE2	1.86	0.58
9:E:570:ALA:O	9:E:574:HIS:N	2.35	0.58
4:EE:216:ASN:HB2	4:EE:276:ILE:HD12	1.86	0.58
3:EF:379:LYS:O	3:EF:382:SER:OG	2.13	0.58
4:EG:127:ASP:OD1	4:EG:128:LEU:N	2.36	0.58
4:EI:113:GLU:OE1	4:EI:113:GLU:N	2.35	0.58
4:EI:204:VAL:HG23	4:EI:302:MET:HG3	1.84	0.58
4:EI:221:ARG:HB3	15:H5:296:TYR:HD2	1.69	0.58
3:EJ:286:VAL:HG21	3:EJ:325:GLU:HG3	1.85	0.58
4:EK:207:GLU:HB2	4:EK:304:LYS:HZ1	1.69	0.58
11:F3:129:GLN:HA	11:F3:132:HIS:CD2	2.37	0.58
11:F6:365:LEU:HG	11:F6:448:LYS:NZ	2.18	0.58
4:FA:287:SER:OG	4:FA:290:GLU:OE1	2.22	0.58
11:Fa:194:CYS:O	11:Fa:468:LYS:NZ	2.37	0.58
11:Fb:262:TYR:O	11:Fb:265:GLU:HG2	2.03	0.58
11:Fk:121:LEU:O	11:Fk:124:MET:HG3	2.04	0.58
13:G2:248:ILE:HD11	13:G2:259:CYS:HB3	1.86	0.58
13:G3:92:PHE:HB2	13:G3:127:GLU:HA	1.85	0.58
14:G4:202:GLU:HA	14:G4:205:GLU:HB2	1.84	0.58
3:GB:151:LEU:O	3:GB:155:ILE:HG12	2.03	0.58
3:GF:412:GLU:OE1	3:GF:416:ASN:ND2	2.37	0.58
3:GH:2:ARG:HA	3:GH:129:CYS:O	2.04	0.58
3:GH:311:LEU:HG	3:GH:312:THR:HG23	1.86	0.58
4:HA:216:ASN:ND2	4:HA:275:VAL:O	2.36	0.58
3:HB:16:ILE:HG13	3:HB:226:ASN:ND2	2.19	0.58
3:HF:54:ALA:HB3	3:HF:58:LYS:HB3	1.84	0.58
3:HJ:324:LYS:HD2	4:HK:221:ARG:HA	1.86	0.58
4:IE:49:PHE:O	4:IE:53:PHE:N	2.36	0.58
4:IE:67:PHE:HB2	4:IE:92:LEU:HD13	1.84	0.58
4:IE:98:ASP:OD1	4:IE:99:ALA:N	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:IK:1:MET:N	4:IK:130:THR:OG1	2.37	0.58
19:J1:33:SER:HA	19:J1:104:HIS:HB2	1.84	0.58
3:JD:269:GLY:N	3:JD:367:PHE:O	2.36	0.58
4:JE:50:ASN:O	4:JE:64:ARG:NH1	2.36	0.58
3:JF:4:ILE:HD11	3:JF:131:GLN:HB2	1.86	0.58
3:JL:309:ARG:HE	3:JL:426:GLN:HE21	1.50	0.58
3:JL:392:LYS:HB2	3:JL:395:LEU:HD13	1.86	0.58
21:K4:195:ALA:HB2	21:K4:339:LYS:HE3	1.84	0.58
39:KB:501:GTP:O3G	39:KB:501:GTP:O3'	2.13	0.58
3:KF:47:ILE:HB	3:KF:241:ARG:HH21	1.68	0.58
4:KI:206:ASN:HA	4:KI:209:ILE:HD12	1.84	0.58
3:KL:201:CYS:HB2	3:KL:267:MET:HE1	1.84	0.58
3:KL:379:LYS:O	3:KL:382:SER:OG	2.17	0.58
22:L2:254:ASN:HA	36:Y:46:HIS:HB3	1.86	0.58
4:LC:245:ASP:O	4:LC:356:ASN:ND2	2.37	0.58
3:LH:91:VAL:HG11	3:LH:116:VAL:HG12	1.86	0.58
3:LJ:151:LEU:HD22	3:LJ:154:LYS:HZ1	1.67	0.58
3:LJ:235:GLY:O	3:LJ:238:THR:OG1	2.20	0.58
4:LK:68:VAL:HA	4:LK:93:ILE:HB	1.84	0.58
3:MB:250:LEU:O	3:MB:254:ALA:N	2.30	0.58
4:MC:54:SER:HB2	4:MC:62:VAL:HB	1.85	0.58
3:MH:410:GLU:HB3	30:Q2:1419:ARG:HH11	1.69	0.58
3:MJ:317:PHE:O	3:MJ:354:CYS:N	2.22	0.58
4:MK:192:HIS:HA	4:MK:195:LEU:HD23	1.85	0.58
3:ML:250:LEU:HD13	3:ML:253:LEU:HD12	1.85	0.58
4:MM:427:ALA:HA	4:MM:430:LYS:HG2	1.86	0.58
25:N:86:GLN:N	25:N:86:GLN:OE1	2.35	0.58
4:NE:103:TYR:HB2	4:NE:186:ASN:HB2	1.85	0.58
3:NF:269:GLY:HA2	3:NF:300:MET:HE1	1.86	0.58
28:O3:80:THR:HG22	28:O3:114:SER:HB3	1.85	0.58
3:OD:372:THR:HG21	3:OD:426:GLN:HG3	1.86	0.58
4:OE:329:ASN:OD1	4:OE:330:ALA:N	2.36	0.58
3:OF:11:GLN:HE21	39:OF:501:GTP:H3'	1.68	0.58
4:OG:172:TYR:HB2	4:OG:203:MET:HB2	1.86	0.58
4:OI:21:TRP:HE1	4:OI:65:ALA:HB3	1.67	0.58
4:PA:229:ARG:HE	4:PA:368:LEU:HD22	1.67	0.58
3:PB:269:GLY:HA2	3:PB:300:MET:HE1	1.85	0.58
4:PC:192:HIS:HA	4:PC:195:LEU:HD23	1.86	0.58
4:PC:358:GLN:NE2	4:PC:359:PRO:O	2.35	0.58
3:PF:173:PRO:O	3:PF:380:ARG:NH2	2.36	0.58
4:PI:216:ASN:HB2	4:PI:276:ILE:HD12	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PL:375:GLN:HA	3:PL:378:PHE:CZ	2.38	0.58
27:Q:105:GLU:O	27:Q:106:THR:OG1	2.17	0.58
3:QB:83:GLN:O	3:QB:86:ARG:NH2	2.37	0.58
3:QD:70:PRO:HA	3:QD:73:MET:HE2	1.84	0.58
3:QD:322:SER:N	3:QD:325:GLU:OE2	2.36	0.58
4:QM:54:SER:HB2	4:QM:62:VAL:HB	1.85	0.58
3:RB:164:MET:HE3	3:RB:196:THR:C	2.28	0.58
4:RC:273:ALA:HB2	4:RC:295:CYS:HB3	1.85	0.58
3:RF:7:LEU:HB3	3:RF:135:LEU:HG	1.86	0.58
3:RF:39:ASP:OD1	3:RF:43:GLN:NE2	2.37	0.58
4:RI:49:PHE:O	4:RI:53:PHE:N	2.37	0.58
4:RK:144:GLY:N	39:RK:501:GTP:O2B	2.36	0.58
3:SD:114:ASP:OD1	3:SD:115:SER:N	2.36	0.58
3:SF:7:LEU:HD13	3:SF:64:VAL:HB	1.84	0.58
4:SK:84:ARG:HH21	37:YO:127:CYS:C	2.12	0.58
3:TH:372:THR:HG21	3:TH:426:GLN:HG3	1.85	0.58
4:TK:206:ASN:HA	4:TK:209:ILE:HD12	1.85	0.58
4:UG:204:VAL:HG23	4:UG:302:MET:HG3	1.84	0.58
3:UJ:42:LEU:HB2	3:UJ:46:ARG:HH12	1.67	0.58
3:UJ:286:VAL:HG11	3:UJ:325:GLU:HB2	1.84	0.58
3:UL:144:GLY:HA2	3:UL:147:MET:HE3	1.86	0.58
3:UL:167:PHE:HD1	3:UL:200:TYR:HD2	1.52	0.58
4:VA:224:TYR:HA	4:VA:227:LEU:HB2	1.84	0.58
4:VE:192:HIS:HA	4:VE:195:LEU:HD23	1.86	0.58
3:VF:423:GLN:O	3:VF:427:ASP:N	2.35	0.58
3:WB:46:ARG:HH22	4:WC:73:THR:HA	1.68	0.58
3:WB:406:MET:O	3:WB:409:THR:OG1	2.16	0.58
3:WJ:143:THR:HG22	3:WJ:147:MET:HE2	1.85	0.58
4:WK:324:VAL:HG11	3:WL:219:THR:HB	1.85	0.58
3:WL:357:PRO:HB3	3:WL:362:LYS:HA	1.86	0.58
36:Y:82:GLU:O	36:Y:86:HIS:ND1	2.36	0.58
2:A1:288:GLU:HB2	2:A2:31:ARG:NH2	2.18	0.58
2:A3:27:ALA:O	2:A3:31:ARG:HG3	2.04	0.58
4:AG:161:TYR:O	4:AG:166:LYS:NZ	2.33	0.58
4:AG:398:MET:HA	4:AG:401:LYS:HE3	1.86	0.58
4:AI:214:ARG:NH1	4:AI:215:ARG:HG3	2.19	0.58
5:B8:356:LEU:O	5:B8:360:GLN:HG2	2.03	0.58
3:BB:111:GLU:HG2	3:BB:112:LEU:HD12	1.85	0.58
4:BC:213:CYS:O	4:BC:218:ASP:N	2.36	0.58
3:BJ:2:ARG:HA	3:BJ:129:CYS:O	2.04	0.58
4:BM:196:GLU:OE1	4:BM:196:GLU:N	2.27	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BM:316:CYS:HB3	4:BM:378:LEU:HB3	1.85	0.58
6:C:270:GLU:HB3	6:C:272:MET:HE1	1.86	0.58
7:C3:141:HIS:CE1	7:C3:145:ASN:HD21	2.22	0.58
7:C6:232:ARG:O	7:C6:236:HIS:ND1	2.27	0.58
7:C6:322:ARG:NH1	7:C6:323:GLU:OE2	2.37	0.58
7:C7:274:LEU:HD23	7:C8:399:ARG:HG2	1.85	0.58
7:C8:192:LEU:HB2	7:C8:226:ILE:HG21	1.86	0.58
7:C8:365:LEU:HD13	7:C8:455:LEU:HD22	1.84	0.58
3:CB:130:LEU:HB2	3:CB:162:ARG:HH11	1.69	0.58
3:CJ:101:TRP:HB2	3:CJ:184:ASN:HD22	1.68	0.58
3:CJ:186:THR:HA	3:CJ:189:VAL:HG12	1.84	0.58
3:CL:84:ILE:O	3:CL:86:ARG:NH1	2.35	0.58
4:CM:75:VAL:HG23	4:CM:92:LEU:HD12	1.84	0.58
7:Cb:442:GLU:HA	7:Cb:445:LEU:HD12	1.85	0.58
8:D3:263:ASP:O	8:D3:267:ARG:HG2	2.03	0.58
8:D5:425:ILE:HA	8:D5:429:LYS:NZ	2.18	0.58
3:DB:172:SER:OG	3:DB:205:GLU:OE2	2.22	0.58
39:DB:501:GTP:O3G	39:DB:501:GTP:O3'	2.15	0.58
8:Da:84:LEU:HA	8:Da:87:GLU:OE2	2.04	0.58
10:E2:71:GLU:O	10:E2:87:TYR:OH	2.18	0.58
4:EG:223:THR:OG1	4:EG:225:THR:OG1	2.15	0.58
3:EH:173:PRO:O	3:EH:380:ARG:NH2	2.36	0.58
4:EI:32:PRO:O	4:EI:85:GLN:NE2	2.36	0.58
11:F1:425:ASP:OD2	11:F2:127:LYS:NZ	2.26	0.58
11:F3:415:ARG:HB3	11:F4:138:THR:HG22	1.86	0.58
11:F7:289:THR:OG1	11:F8:409:ARG:NE	2.35	0.58
3:FB:3:GLU:HG2	3:FB:130:LEU:HD13	1.85	0.58
3:FH:28:HIS:O	3:FH:43:GLN:NE2	2.35	0.58
11:Fa:415:ARG:NH1	11:Fb:138:THR:HA	2.18	0.58
11:Fj:385:LYS:HZ3	11:Fj:427:LEU:HA	1.68	0.58
11:Fl:198:ARG:HD2	11:Fl:468:LYS:HE3	1.84	0.58
14:G6:60:PHE:HD2	14:G6:66:THR:HG22	1.67	0.58
4:GA:49:PHE:HB2	4:GA:53:PHE:HB2	1.85	0.58
3:GB:173:PRO:O	3:GB:380:ARG:NH2	2.37	0.58
4:GG:9:VAL:HG11	4:GG:150:ALA:HB2	1.86	0.58
3:GJ:68:LEU:HD12	3:GJ:97:ALA:HB2	1.84	0.58
4:GK:67:PHE:HB2	4:GK:92:LEU:HD13	1.84	0.58
15:H2:217:ALA:H	15:H2:236:TYR:HE2	1.52	0.58
15:H2:242:GLN:HA	15:H2:245:ASP:HB2	1.84	0.58
15:H3:24:TYR:H	15:H3:27:LEU:HD23	1.68	0.58
15:H4:292:MET:O	15:H4:295:ASN:N	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HE:111:GLY:HA2	4:HE:149:PHE:CE1	2.38	0.58
4:HE:214:ARG:NH1	4:HE:215:ARG:HG3	2.19	0.58
3:HL:7:LEU:HD13	3:HL:64:VAL:HB	1.86	0.58
16:I:202:HIS:ND1	3:LF:216:LYS:O	2.36	0.58
3:IH:83:GLN:O	3:IH:86:ARG:NH2	2.37	0.58
4:JA:51:THR:HG23	4:JA:52:PHE:CD2	2.39	0.58
3:JH:392:LYS:HB2	3:JH:395:LEU:HD13	1.85	0.58
21:K4:375:ARG:HH21	21:K4:423:THR:HA	1.68	0.58
3:KB:372:THR:HG21	3:KB:426:GLN:HG3	1.86	0.58
3:KD:118:ASP:OD1	3:KD:121:ARG:NH1	2.36	0.58
3:KF:12:CYS:HA	39:KF:501:GTP:N2	2.19	0.58
4:KK:5:ILE:HD13	4:KK:64:ARG:HB3	1.85	0.58
3:KL:254:ALA:O	3:KL:258:VAL:N	2.37	0.58
22:L1:80:ARG:HG2	22:L1:81:CYS:H	1.68	0.58
22:L3:255:LYS:CG	33:W:105:SER:HB3	2.33	0.58
4:LA:316:CYS:N	4:LA:378:LEU:O	2.36	0.58
3:LD:77:ARG:O	3:LD:77:ARG:NH1	2.35	0.58
3:LD:174:LYS:HG3	3:LD:175:VAL:HG12	1.84	0.58
4:LI:122:ILE:O	4:LI:126:ALA:N	2.36	0.58
4:ME:108:TYR:O	4:ME:112:LYS:NZ	2.24	0.58
4:MK:254:GLU:OE1	4:MK:254:GLU:N	2.36	0.58
4:NC:171:ILE:HD12	4:NC:204:VAL:HG13	1.86	0.58
4:NC:185:TYR:OH	4:NC:403:ALA:O	2.16	0.58
3:NF:173:PRO:O	3:NF:380:ARG:NH2	2.36	0.58
3:NF:317:PHE:HB3	3:NF:321:MET:HE3	1.85	0.58
4:NG:32:PRO:O	4:NG:85:GLN:NE2	2.36	0.58
4:NG:88:HIS:HB3	4:NG:91:GLN:HB2	1.85	0.58
3:OD:117:LEU:HD11	3:OD:154:LYS:HD2	1.86	0.58
3:OL:323:MET:N	3:OL:323:MET:SD	2.74	0.58
3:OL:357:PRO:HB3	3:OL:362:LYS:HA	1.86	0.58
3:OL:384:GLN:O	3:OL:388:MET:HG2	2.03	0.58
29:P1:507:CYS:SG	29:P1:520:SER:OG	2.62	0.58
29:P3:431:ARG:NH2	29:P3:473:ASN:O	2.36	0.58
3:PB:83:GLN:O	3:PB:86:ARG:NH2	2.37	0.58
4:PC:32:PRO:O	4:PC:85:GLN:NE2	2.36	0.58
3:PF:111:GLU:HG2	3:PF:112:LEU:HD12	1.86	0.58
3:PF:392:LYS:HB2	3:PF:395:LEU:HD13	1.86	0.58
4:PI:34:GLY:HA2	4:PI:86:LEU:HD21	1.85	0.58
4:PK:400:ALA:O	4:PK:402:ARG:NH1	2.36	0.58
3:PL:41:ASP:O	3:PL:45:GLU:N	2.30	0.58
4:PM:264:ARG:O	4:PM:266:HIS:ND1	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:QC:141:PHE:HE2	4:QC:203:MET:HE1	1.68	0.58
3:QD:46:ARG:HH12	4:QE:73:THR:HG23	1.68	0.58
3:QD:114:ASP:OD1	3:QD:115:SER:N	2.37	0.58
4:QK:338:LYS:HZ2	4:QK:340:THR:H	1.50	0.58
4:RI:236:SER:O	4:RI:243:ARG:NH2	2.32	0.58
4:RK:50:ASN:O	4:RK:64:ARG:NH1	2.37	0.58
4:SE:207:GLU:HB2	4:SE:304:LYS:HZ1	1.67	0.58
3:SF:170:VAL:N	3:SF:202:ILE:O	2.32	0.58
3:SH:103:LYS:O	3:SH:108:GLU:N	2.33	0.58
3:SH:117:LEU:HD11	3:SH:154:LYS:HD2	1.86	0.58
3:TB:28:HIS:HD2	3:TB:43:GLN:HB2	1.68	0.58
3:TB:132:GLY:HA2	3:TB:162:ARG:HB3	1.86	0.58
4:TC:53:PHE:O	4:TC:64:ARG:NH1	2.36	0.58
4:TC:115:VAL:HA	4:TC:118:VAL:HG22	1.84	0.58
4:TG:1:MET:O	4:TG:131:GLY:HA3	2.04	0.58
4:UA:5:ILE:HD13	4:UA:64:ARG:HB3	1.85	0.58
4:UC:229:ARG:HE	4:UC:368:LEU:HD22	1.68	0.58
3:UD:235:GLY:O	3:UD:238:THR:OG1	2.20	0.58
3:UH:132:GLY:HA2	3:UH:162:ARG:HB3	1.84	0.58
3:UH:156:ARG:NH1	3:UH:195:ASN:O	2.37	0.58
3:VB:398:TYR:HB3	3:VB:403:MET:HB2	1.85	0.58
3:VD:392:LYS:HB2	3:VD:395:LEU:HD13	1.84	0.58
3:VF:392:LYS:HB2	3:VF:395:LEU:HD13	1.86	0.58
3:VJ:2:ARG:HA	3:VJ:129:CYS:O	2.03	0.58
3:VL:309:ARG:HE	3:VL:426:GLN:HE21	1.50	0.58
33:W:367:LYS:O	33:W:369:ILE:HD12	2.02	0.58
3:WB:311:LEU:HG	3:WB:312:THR:HG23	1.86	0.58
3:WD:60:VAL:HG23	3:WD:86:ARG:HH11	1.69	0.58
3:WD:302:ALA:HB1	3:WD:377:LEU:HD11	1.86	0.58
4:WE:265:ILE:HD12	4:WE:432:TYR:CE1	2.39	0.58
4:WG:396:ASP:OD1	4:WG:397:LEU:N	2.37	0.58
4:WI:154:MET:HE3	4:WI:194:THR:HG22	1.84	0.58
34:XB:89:PHE:HB2	34:XB:156:ILE:HD13	1.85	0.58
37:YD:75:GLU:O	37:YD:79:LEU:N	2.34	0.58
37:YF:99:LYS:HZ1	37:YF:147:PHE:HD2	1.50	0.58
37:YJ:110:LEU:HD23	37:YJ:140:LEU:HB2	1.84	0.58
37:YO:26:ILE:O	37:YO:30:GLU:N	2.33	0.58
37:YR:161:LYS:HG3	37:YR:162:VAL:HG23	1.85	0.58
2:A2:8:PRO:O	2:A2:10:ARG:NH1	2.35	0.58
3:AF:77:ARG:O	3:AF:77:ARG:NH1	2.30	0.58
3:AF:316:VAL:HG22	3:AF:352:ALA:HB3	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AF:334:GLN:O	3:AF:338:SER:OG	2.17	0.58
3:AJ:324:LYS:NZ	4:AK:222:PRO:O	2.25	0.58
5:B3:325:SER:HB3	5:B3:328:GLU:HB2	1.85	0.58
3:BD:39:ASP:OD1	3:BD:43:GLN:NE2	2.37	0.58
4:BE:144:GLY:N	39:BE:501:GTP:O2B	2.34	0.58
4:BG:144:GLY:N	39:BG:501:GTP:O2B	2.34	0.58
3:BL:317:PHE:O	3:BL:354:CYS:N	2.34	0.58
4:BM:79:ARG:O	15:H6:20:TYR:OH	2.22	0.58
7:C2:404:THR:HA	7:C2:406:ARG:HH21	1.69	0.58
8:D4:203:LEU:O	8:D4:207:HIS:ND1	2.30	0.58
8:D8:198:VAL:O	8:D8:202:ARG:HG2	2.03	0.58
8:D8:406:GLU:HA	8:D8:409:ARG:HG2	1.85	0.58
4:DA:386:GLU:HA	4:DA:389:ALA:HB3	1.85	0.58
3:DH:84:ILE:O	3:DH:86:ARG:NH1	2.35	0.58
3:DJ:111:GLU:HG2	3:DJ:112:LEU:HD12	1.86	0.58
4:DK:33:ASP:OD1	4:DK:34:GLY:N	2.36	0.58
3:DL:13:GLY:HA2	3:DL:16:ILE:HB	1.86	0.58
3:DL:156:ARG:NH1	3:DL:195:ASN:O	2.37	0.58
4:EA:103:TYR:HB2	4:EA:186:ASN:HB2	1.86	0.58
3:EB:330:MET:O	3:EB:334:GLN:HG2	2.03	0.58
3:ED:194:GLU:OE1	3:ED:195:ASN:ND2	2.37	0.58
3:EH:423:GLN:O	3:EH:427:ASP:N	2.37	0.58
11:F7:144:GLN:HG3	11:Fc:140:ARG:HD2	1.86	0.58
3:FB:282:ARG:NH2	3:FB:292:GLN:OE1	2.33	0.58
4:FC:203:MET:HE1	4:FC:267:PHE:HB3	1.86	0.58
3:FF:48:ASN:O	3:FF:62:ARG:NH2	2.29	0.58
3:FH:317:PHE:O	3:FH:354:CYS:N	2.36	0.58
4:FI:256:GLN:O	4:FI:260:VAL:HG12	2.03	0.58
4:FK:329:ASN:OD1	4:FK:330:ALA:N	2.37	0.58
11:Fa:293:PRO:HA	11:Fa:296:TRP:HZ3	1.69	0.58
11:Fa:379:GLU:HA	11:Fa:382:ILE:HD12	1.86	0.58
11:Fl:356:LYS:O	11:Fl:359:THR:OG1	2.14	0.58
13:G2:26:HIS:H	13:G2:48:GLY:HA2	1.69	0.58
13:G2:273:VAL:HG13	13:G2:292:MET:HE1	1.86	0.58
14:G4:13:ARG:HD2	14:G4:15:ILE:HG12	1.85	0.58
14:G5:597:GLN:NE2	14:G5:598:GLU:OE1	2.36	0.58
14:G6:493:VAL:HG13	14:G6:494:PHE:HD1	1.69	0.58
4:GE:135:PHE:HD2	4:GE:166:LYS:HG3	1.68	0.58
3:GH:324:LYS:HD2	4:GI:221:ARG:HD2	1.86	0.58
12:H:452:GLN:HA	12:H:455:ILE:HG22	1.86	0.58
4:HA:141:PHE:HD2	4:HA:173:PRO:HD3	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HD:252:LYS:HD3	4:HE:100:ALA:HA	1.85	0.58
4:HE:224:TYR:HA	4:HE:227:LEU:HB2	1.85	0.58
3:HF:323:MET:SD	4:HG:210:TYR:OH	2.51	0.58
4:HK:401:LYS:C	4:HK:402:ARG:HD3	2.29	0.58
4:IM:208:ALA:H	4:IM:304:LYS:HZ1	1.50	0.58
4:JE:427:ALA:HA	4:JE:430:LYS:HG2	1.86	0.58
3:JH:99:ASN:OD1	3:JH:142:GLY:HA3	2.04	0.58
4:JI:306:ASP:OD2	4:JI:309:HIS:ND1	2.36	0.58
3:JJ:117:LEU:HD11	3:JJ:154:LYS:HD2	1.85	0.58
3:JJ:302:ALA:HB1	3:JJ:377:LEU:HD11	1.86	0.58
4:KA:236:SER:O	4:KA:243:ARG:NH2	2.34	0.58
4:KE:1:MET:O	4:KE:131:GLY:HA3	2.04	0.58
3:KF:211:CYS:HA	3:KF:215:LEU:HB3	1.85	0.58
4:KI:161:TYR:O	4:KI:166:LYS:NZ	2.35	0.58
3:KL:84:ILE:O	3:KL:86:ARG:NH1	2.36	0.58
3:KL:425:TYR:OH	31:R3:124:ASN:OD1	2.22	0.58
22:L2:190:ASP:OD1	22:L2:193:ARG:NH2	2.33	0.58
4:LA:33:ASP:OD1	4:LA:34:GLY:N	2.37	0.58
4:LC:9:VAL:HA	4:LC:68:VAL:HG23	1.84	0.58
3:LD:217:LEU:HD11	3:LD:220:PRO:HB3	1.85	0.58
3:LH:39:ASP:OD1	3:LH:43:GLN:NE2	2.37	0.58
3:LJ:269:GLY:HA2	3:LJ:300:MET:HE1	1.84	0.58
3:LJ:347:ASN:HB3	4:LK:178:SER:HB3	1.85	0.58
4:LK:370:LYS:NZ	27:R:216:PHE:HB3	2.18	0.58
3:MD:269:GLY:N	3:MD:367:PHE:O	2.36	0.58
4:MG:269:LEU:N	4:MG:379:SER:O	2.33	0.58
3:MH:84:ILE:O	3:MH:86:ARG:NH1	2.37	0.58
3:ML:12:CYS:O	3:ML:15:GLN:NE2	2.37	0.58
3:NF:12:CYS:HA	39:NF:501:GTP:HN22	1.69	0.58
4:NI:54:SER:HB2	4:NI:62:VAL:HB	1.84	0.58
4:NI:115:VAL:O	4:NI:119:LEU:N	2.28	0.58
3:NJ:41:ASP:OD1	3:NJ:42:LEU:N	2.37	0.58
3:NL:317:PHE:HB3	3:NL:321:MET:HE3	1.85	0.58
28:O3:16:PRO:HA	28:O3:19:LEU:HB2	1.86	0.58
3:OB:245:GLN:HE22	4:OC:15:GLN:HE22	1.50	0.58
4:OG:203:MET:N	4:OG:203:MET:SD	2.75	0.58
3:OJ:290:THR:HG21	3:OJ:329:GLN:HB3	1.85	0.58
3:OL:100:ASN:H	3:OL:103:LYS:HE3	1.68	0.58
29:P1:396:GLY:O	29:P1:415:ALA:N	2.36	0.58
29:P2:292:GLY:O	29:P2:310:GLU:N	2.33	0.58
29:P2:358:VAL:O	29:P2:367:LEU:N	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:PA:203:MET:N	4:PA:203:MET:SD	2.76	0.58
4:PE:67:PHE:O	4:PE:93:ILE:N	2.37	0.58
4:PE:144:GLY:N	39:PE:501:GTP:O2B	2.32	0.58
4:PM:67:PHE:HB2	4:PM:92:LEU:HD13	1.86	0.58
3:QB:239:CYS:SG	3:QB:248:ALA:HA	2.44	0.58
4:QC:371:VAL:HG11	4:QC:374:ALA:HB2	1.85	0.58
3:QD:141:GLY:HA3	39:QD:501:GTP:H5"	1.84	0.58
4:QE:5:ILE:HD13	4:QE:64:ARG:HB3	1.85	0.58
4:QG:125:LEU:HD13	4:QG:128:LEU:HD21	1.84	0.58
4:QG:346:TRP:HH2	3:QH:390:ARG:HB3	1.69	0.58
3:QJ:324:LYS:HE2	4:QK:222:PRO:HG2	1.86	0.58
4:QK:319:TYR:HD2	4:QK:323:VAL:HG11	1.69	0.58
4:RG:138:PHE:HZ	4:RG:235:VAL:HG11	1.69	0.58
4:RK:119:LEU:HD23	4:RK:122:ILE:HD11	1.86	0.58
4:SC:46:ASP:OD1	4:SC:50:ASN:ND2	2.35	0.58
4:SC:161:TYR:O	4:SC:166:LYS:NZ	2.36	0.58
4:SI:34:GLY:HA2	4:SI:86:LEU:HD21	1.86	0.58
3:TB:412:GLU:OE1	3:TB:416:ASN:ND2	2.37	0.58
4:TG:316:CYS:HB3	4:TG:378:LEU:HB2	1.86	0.58
3:TH:173:PRO:O	3:TH:380:ARG:NH2	2.37	0.58
4:TK:316:CYS:HB3	4:TK:378:LEU:HB2	1.86	0.58
4:UA:6:SER:HA	4:UA:136:LEU:HB2	1.84	0.58
4:UA:12:ALA:HB2	39:UA:501:GTP:H5"	1.85	0.58
4:VA:208:ALA:H	4:VA:304:LYS:HZ1	1.50	0.58
3:VB:84:ILE:O	3:VB:86:ARG:NH1	2.35	0.58
3:VD:324:LYS:HD2	4:VE:221:ARG:HA	1.86	0.58
3:VF:141:GLY:HA3	39:VF:501:GTP:H5"	1.86	0.58
39:VH:501:GTP:O3G	39:VH:501:GTP:O3'	2.13	0.58
4:VI:371:VAL:HG11	4:VI:374:ALA:HB2	1.86	0.58
4:WA:433:GLU:O	4:WA:437:VAL:N	2.35	0.58
3:WF:94:GLN:NE2	35:XJ:72:ASP:H	2.01	0.58
4:WG:236:SER:O	4:WG:243:ARG:NH2	2.35	0.58
33:X:518:LYS:O	33:X:522:LEU:HG	2.03	0.58
34:XF:69:LEU:HG	34:XF:153:ARG:HA	1.86	0.58
35:XK:187:MET:SD	35:XK:187:MET:N	2.76	0.58
37:YA:155:SER:HA	37:YA:158:LEU:HG	1.85	0.58
37:YD:18:PHE:O	37:YD:22:GLN:N	2.37	0.58
37:YG:125:LEU:HD21	37:YG:138:VAL:HG11	1.86	0.58
37:YI:15:TYR:HA	37:YI:18:PHE:HB3	1.85	0.58
37:YL:116:LYS:NZ	37:YL:117:TYR:O	2.37	0.58
37:YM:161:LYS:HG3	37:YM:162:VAL:HG23	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:YV:120:GLU:O	37:YV:124:HIS:N	2.35	0.58
2:A2:165:ARG:NH1	13:G1:195:GLU:O	2.36	0.58
2:A2:326:VAL:HG23	2:A3:212:VAL:HG21	1.85	0.58
2:A3:384:TYR:O	2:A3:388:VAL:HG22	2.04	0.58
2:A4:61:LYS:HD3	5:B1:281:TRP:CD2	2.39	0.58
4:AE:396:ASP:OD1	4:AE:397:LEU:N	2.37	0.58
4:AI:171:ILE:HD12	4:AI:204:VAL:HG23	1.84	0.58
3:AJ:28:HIS:ND1	3:AJ:43:GLN:HB2	2.19	0.58
4:AK:247:ALA:HB3	4:AK:355:ILE:HG21	1.85	0.58
4:AK:286:LEU:HD11	4:AK:373:ARG:H	1.69	0.58
5:B6:180:MET:HA	5:B6:183:LEU:HD12	1.86	0.58
5:B8:379:CYS:O	5:B8:383:THR:HG23	2.04	0.58
3:BB:324:LYS:NZ	4:BC:222:PRO:O	2.22	0.58
4:BC:1:MET:SD	4:BC:2:ARG:N	2.77	0.58
4:BC:245:ASP:O	4:BC:356:ASN:ND2	2.37	0.58
3:BJ:305:PRO:HB2	3:BJ:310:TYR:HE1	1.68	0.58
3:BJ:390:ARG:HH11	3:BJ:391:ARG:HE	1.51	0.58
4:BK:11:GLN:O	4:BK:14:VAL:HG22	2.03	0.58
3:BL:60:VAL:HG23	3:BL:86:ARG:HH11	1.69	0.58
3:BL:276:ARG:HB3	14:G6:125:LEU:HA	1.84	0.58
7:C6:117:SER:OG	7:C7:371:GLU:OE2	2.22	0.58
7:C6:292:ALA:HB1	10:E1:37:PRO:HA	1.85	0.58
7:C7:375:ILE:O	7:C7:379:ILE:HG12	2.04	0.58
7:C8:198:CYS:HA	7:C8:472:LYS:HE3	1.85	0.58
7:C8:375:ILE:O	7:C8:378:THR:OG1	2.19	0.58
4:CC:216:ASN:HB2	4:CC:276:ILE:HD12	1.86	0.58
4:CC:269:LEU:N	4:CC:379:SER:O	2.29	0.58
4:CE:75:VAL:HG23	4:CE:92:LEU:HD12	1.86	0.58
4:CE:88:HIS:HB3	4:CE:91:GLN:CG	2.33	0.58
4:CG:33:ASP:OD1	4:CG:34:GLY:N	2.37	0.58
4:CG:53:PHE:O	4:CG:64:ARG:NH1	2.36	0.58
3:CH:111:GLU:HG2	3:CH:112:LEU:HD12	1.85	0.58
3:CH:151:LEU:HD22	3:CH:154:LYS:HZ1	1.69	0.58
4:CK:401:LYS:C	4:CK:402:ARG:HD3	2.28	0.58
8:D3:90:ALA:O	8:D3:94:ARG:NE	2.37	0.58
4:DC:252:LEU:HA	4:DC:255:PHE:HD2	1.69	0.58
3:DJ:77:ARG:O	3:DJ:77:ARG:NH1	2.34	0.58
3:DJ:117:LEU:HD11	3:DJ:154:LYS:HD2	1.85	0.58
4:EE:1:MET:O	4:EE:131:GLY:HA3	2.04	0.58
3:EH:269:GLY:N	3:EH:367:PHE:O	2.37	0.58
4:EI:207:GLU:HB2	4:EI:304:LYS:NZ	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EI:208:ALA:H	4:EI:304:LYS:HZ1	1.52	0.58
4:EK:1:MET:SD	4:EK:2:ARG:N	2.77	0.58
4:EK:2:ARG:O	4:EK:51:THR:OG1	2.14	0.58
39:EL:501:GTP:O3G	39:EL:501:GTP:O3'	2.17	0.58
4:FG:12:ALA:HB1	39:FG:501:GTP:C2	2.39	0.58
4:FK:160:ASP:OD1	4:FK:161:TYR:N	2.37	0.58
11:Fb:316:ARG:O	11:Fb:319:GLU:HG3	2.03	0.58
11:Fh:187:PRO:HA	11:Fh:190:VAL:HG12	1.84	0.58
13:G1:194:LEU:O	13:G1:198:GLY:N	2.26	0.58
13:G1:513:LEU:HA	13:G1:516:MET:HE3	1.85	0.58
13:G2:179:LYS:NZ	13:G2:180:THR:O	2.37	0.58
14:G6:564:GLN:O	14:G6:568:ALA:N	2.32	0.58
4:GA:401:LYS:C	4:GA:402:ARG:HD3	2.28	0.58
4:GG:203:MET:N	4:GG:203:MET:SD	2.76	0.58
4:GI:30:ILE:HA	4:GI:36:MET:HE1	1.85	0.58
15:H2:214:GLN:OE1	15:H2:215:ARG:NH1	2.36	0.58
4:HE:171:ILE:HD12	4:HE:204:VAL:HG13	1.84	0.58
4:HE:363:VAL:HG13	4:HE:366:GLY:HA3	1.85	0.58
4:HG:208:ALA:N	4:HG:304:LYS:HZ1	2.00	0.58
4:HI:1:MET:O	4:HI:131:GLY:HA3	2.04	0.58
3:HJ:139:LEU:HD21	3:HJ:170:VAL:HG22	1.85	0.58
16:I:201:TRP:CD1	3:LF:276:ARG:HD2	2.39	0.58
4:IC:236:SER:O	4:IC:243:ARG:NH2	2.35	0.58
4:IE:12:ALA:HB1	39:IE:501:GTP:C2	2.39	0.58
4:IK:33:ASP:OD1	4:IK:34:GLY:N	2.37	0.58
3:IL:318:ARG:HD3	3:IL:358:PRO:HG3	1.86	0.58
4:JC:123:ARG:NH1	4:JC:124:LYS:HB3	2.18	0.58
4:JE:33:ASP:OD1	4:JE:34:GLY:N	2.37	0.58
3:JF:268:PRO:HD2	3:JF:301:ALA:HB2	1.84	0.58
3:JH:4:ILE:HD11	3:JH:131:GLN:HB2	1.86	0.58
3:JH:12:CYS:HB3	39:JH:501:GTP:H5'	1.86	0.58
4:KA:12:ALA:HB1	39:KA:501:GTP:C2	2.39	0.58
4:KA:271:THR:O	4:KA:377:MET:N	2.29	0.58
3:KB:46:ARG:HH12	4:KC:73:THR:HG23	1.68	0.58
3:KD:203:ASP:N	3:KD:301:ALA:O	2.35	0.58
4:KI:68:VAL:HG12	4:KI:93:ILE:HB	1.85	0.58
22:L2:231:GLU:HA	22:L2:234:MET:HB2	1.86	0.58
22:L3:31:PHE:HA	22:L3:35:ILE:HB	1.84	0.58
4:LC:32:PRO:O	4:LC:85:GLN:NE2	2.37	0.58
3:LD:250:LEU:O	3:LD:254:ALA:N	2.32	0.58
3:LD:381:ILE:HD12	3:LD:385:PHE:HE2	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LH:415:MET:O	3:LH:419:VAL:HG23	2.04	0.58
3:LJ:132:GLY:HA2	3:LJ:162:ARG:HB3	1.84	0.58
4:LK:60:LYS:HG3	4:MK:283:HIS:HB2	1.86	0.58
3:LL:6:HIS:HD2	3:LL:134:GLN:HG2	1.68	0.58
4:ME:88:HIS:HB3	4:ME:91:GLN:HB3	1.85	0.58
4:MI:53:PHE:O	4:MI:64:ARG:NH1	2.37	0.58
3:MJ:324:LYS:HE2	4:MK:222:PRO:HG2	1.86	0.58
3:NB:357:PRO:HB3	3:NB:362:LYS:HA	1.86	0.58
4:NE:224:TYR:HA	4:NE:227:LEU:HB2	1.86	0.58
3:NJ:211:CYS:HA	3:NJ:215:LEU:HB2	1.86	0.58
4:NK:144:GLY:N	39:NK:501:GTP:O2B	2.35	0.58
27:O:32:ALA:HA	27:O:35:ARG:HB2	1.86	0.58
4:OC:49:PHE:O	4:OC:53:PHE:N	2.35	0.58
3:OD:132:GLY:HA3	3:OD:163:ILE:H	1.68	0.58
3:PB:379:LYS:O	3:PB:382:SER:OG	2.16	0.58
4:PE:396:ASP:OD1	4:PE:397:LEU:N	2.37	0.58
4:PG:229:ARG:HE	4:PG:368:LEU:HD22	1.69	0.58
4:PI:205:ASP:OD2	4:PI:304:LYS:NZ	2.30	0.58
3:PJ:278:SER:HA	3:PJ:281:TYR:HB2	1.86	0.58
4:PK:234:ILE:HD11	4:PK:272:TYR:HB2	1.85	0.58
4:QE:427:ALA:HA	4:QE:430:LYS:HG2	1.86	0.58
3:QF:247:ASN:HB3	3:QF:252:LYS:HG2	1.86	0.58
4:QG:319:TYR:HB2	4:QG:355:ILE:HD13	1.85	0.58
4:QK:207:GLU:HB2	4:QK:304:LYS:NZ	2.18	0.58
3:RB:39:ASP:O	37:YA:20:GLN:NE2	2.36	0.58
3:RD:214:THR:HG21	3:RD:273:LEU:HB3	1.86	0.58
3:RL:111:GLU:HG2	3:RL:112:LEU:HD12	1.86	0.58
4:RM:154:MET:HE3	4:RM:194:THR:HG22	1.86	0.58
3:SB:28:HIS:ND1	3:SB:43:GLN:HB2	2.18	0.58
4:SG:205:ASP:OD2	4:SG:304:LYS:NZ	2.30	0.58
4:SI:148:GLY:O	4:SI:151:SER:OG	2.21	0.58
4:SK:236:SER:O	4:SK:243:ARG:NH2	2.33	0.58
4:SK:324:VAL:HG11	3:SL:219:THR:HB	1.86	0.58
4:TC:207:GLU:HB2	4:TC:304:LYS:HZ1	1.69	0.58
4:TI:396:ASP:OD1	4:TI:397:LEU:N	2.37	0.58
4:TK:338:LYS:HZ2	4:TK:340:THR:H	1.50	0.58
4:TM:392:ASP:OD1	4:TM:393:HIS:N	2.37	0.58
4:UA:203:MET:HE1	4:UA:267:PHE:HB3	1.86	0.58
4:UA:208:ALA:H	4:UA:304:LYS:HZ1	1.51	0.58
3:VB:2:ARG:HA	3:VB:129:CYS:O	2.04	0.58
3:VB:33:THR:O	3:VB:58:LYS:NZ	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:VC:187:SER:O	4:VC:190:THR:OG1	2.20	0.58
4:VE:203:MET:SD	4:VE:203:MET:N	2.77	0.58
3:VJ:52:ASN:OD1	3:VJ:62:ARG:NH1	2.37	0.58
4:WC:144:GLY:N	39:WC:501:GTP:O2B	2.37	0.58
4:WE:216:ASN:HB2	4:WE:276:ILE:HD12	1.85	0.58
3:WL:269:GLY:HA2	3:WL:300:MET:HE1	1.84	0.58
34:XG:86:TYR:HD1	34:XG:107:ASN:HD21	1.52	0.58
37:YF:41:ARG:NH1	37:YF:48:GLN:OE1	2.37	0.58
2:A2:138:LYS:NZ	17:I2:63:LEU:O	2.36	0.58
4:AC:172:TYR:HB2	4:AC:203:MET:HB2	1.85	0.58
3:AD:375:GLN:HA	3:AD:378:PHE:CZ	2.39	0.58
3:AF:83:GLN:O	3:AF:86:ARG:NH2	2.37	0.58
3:AJ:322:SER:N	3:AJ:325:GLU:OE2	2.37	0.58
4:AM:256:GLN:O	4:AM:260:VAL:HG12	2.04	0.58
5:B4:183:LEU:HB3	5:B4:187:ARG:HH22	1.69	0.58
5:B5:8:PRO:HD2	8:D9:330:THR:HG21	1.84	0.58
3:BD:216:LYS:O	3:BD:276:ARG:NH2	2.37	0.58
3:BF:131:GLN:O	3:BF:163:ILE:N	2.31	0.58
3:BF:267:MET:O	3:BF:369:GLY:N	2.32	0.58
3:BH:60:VAL:HG23	3:BH:86:ARG:HH11	1.69	0.58
3:BH:372:THR:HB	3:BH:375:GLN:HE22	1.69	0.58
4:BI:319:TYR:HB2	4:BI:355:ILE:HD13	1.85	0.58
6:C:310:VAL:HG22	38:a:74:LEU:HD13	1.86	0.58
6:C:361:ARG:HD2	6:C:372:ALA:HB3	1.85	0.58
7:C1:131:LYS:HE3	7:C2:389:LYS:HB2	1.86	0.58
3:CB:322:SER:N	3:CB:325:GLU:OE2	2.37	0.58
4:CE:144:GLY:N	39:CE:501:GTP:O2B	2.36	0.58
3:CJ:132:GLY:HA2	3:CJ:162:ARG:HB3	1.86	0.58
3:CJ:398:TYR:HB3	3:CJ:403:MET:HB2	1.84	0.58
4:CK:1:MET:O	4:CK:131:GLY:HA3	2.03	0.58
8:D2:183:ILE:O	8:D2:187:GLN:HG2	2.04	0.58
8:D4:52:LEU:N	8:D4:55:GLU:OE2	2.33	0.58
8:D4:228:CYS:O	8:D5:356:ARG:NH1	2.37	0.58
4:DA:392:ASP:OD1	4:DA:393:HIS:N	2.37	0.58
4:DC:10:GLY:O	4:DC:14:VAL:HG13	2.04	0.58
3:DF:328:GLU:OE2	3:DF:329:GLN:NE2	2.37	0.58
3:DH:218:THR:OG1	3:DH:219:THR:N	2.36	0.58
3:DH:295:ASP:HB2	3:DH:298:ASN:HB2	1.85	0.58
3:DH:378:PHE:HA	3:DH:381:ILE:HG12	1.85	0.58
4:DI:84:ARG:HH22	15:H5:277:ARG:HE	1.52	0.58
4:DI:139:HIS:HE1	4:DI:168:GLU:HB3	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DK:272:TYR:CZ	4:DK:274:PRO:HG2	2.39	0.58
9:E:775:PRO:HG2	9:E:780:GLN:OE1	2.04	0.58
10:E1:123:ILE:HG22	10:E1:124:THR:HG23	1.86	0.58
10:E1:139:TRP:CE3	10:E1:153:ARG:HD2	2.39	0.58
4:EA:38:SER:OG	14:G4:527:GLU:OE1	2.20	0.58
4:EC:214:ARG:NH1	4:EC:215:ARG:HG3	2.19	0.58
3:EH:268:PRO:HD2	3:EH:301:ALA:HB2	1.86	0.58
3:EJ:322:SER:N	3:EJ:325:GLU:OE2	2.37	0.58
3:EL:131:GLN:HB3	3:EL:163:ILE:HD12	1.85	0.58
3:FH:15:GLN:HG2	3:FH:222:TYR:CE2	2.39	0.58
4:FI:172:TYR:HB2	4:FI:203:MET:HB2	1.86	0.58
4:FK:1:MET:SD	4:FK:2:ARG:N	2.77	0.58
3:FL:278:SER:HA	3:FL:281:TYR:HB2	1.85	0.58
11:Fa:433:ARG:HH21	11:Fb:120:SER:HB3	1.67	0.58
11:Fb:208:HIS:ND1	11:Fb:212:GLU:OE2	2.36	0.58
11:Fh:378:LEU:HD13	11:Fh:434:LEU:HD23	1.86	0.58
11:Fk:186:CYS:HB3	11:Fk:187:PRO:HD3	1.86	0.58
11:Fk:329:SER:HA	11:Fk:332:MET:SD	2.43	0.58
11:Fm:129:GLN:HA	11:Fm:132:HIS:CD2	2.39	0.58
13:G3:157:ASN:HB3	13:G3:159:MET:SD	2.44	0.58
14:G5:470:GLU:H	14:G5:475:ASN:HD21	1.52	0.58
14:G5:634:ASN:ND2	14:G5:636:ASP:OD1	2.19	0.58
14:G6:622:ARG:HH12	14:G6:626:LYS:HB2	1.68	0.58
4:GA:144:GLY:N	39:GA:501:GTP:O2B	2.36	0.58
4:GE:144:GLY:N	39:GE:501:GTP:O2B	2.34	0.58
4:GE:321:GLY:N	4:GE:356:ASN:O	2.24	0.58
3:GH:372:THR:HB	3:GH:375:GLN:HE22	1.68	0.58
4:GI:214:ARG:NH1	4:GI:215:ARG:HG3	2.19	0.58
3:GJ:4:ILE:HD11	3:GJ:131:GLN:HB2	1.85	0.58
3:GJ:139:LEU:HD21	3:GJ:170:VAL:HG22	1.84	0.58
3:GL:105:HIS:HD2	3:GL:106:TYR:CE1	2.22	0.58
3:GL:412:GLU:HA	3:GL:415:MET:HE2	1.84	0.58
3:HD:77:ARG:O	3:HD:77:ARG:NH1	2.32	0.58
4:HE:273:ALA:N	4:HE:377:MET:HE1	2.19	0.58
4:HE:319:TYR:N	4:HE:354:GLY:O	2.37	0.58
4:HG:210:TYR:HE1	4:HG:227:LEU:HD11	1.69	0.58
4:HI:105:ARG:HH12	4:HI:110:ILE:HG12	1.69	0.58
3:HL:141:GLY:HA3	39:HL:501:GTP:H5"	1.85	0.58
4:IC:101:ASN:HA	4:IC:144:GLY:HA2	1.86	0.58
3:IF:350:LYS:HE3	4:IG:181:VAL:H	1.69	0.58
3:IJ:12:CYS:SG	3:IJ:13:GLY:N	2.77	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IJ:375:GLN:HA	3:IJ:378:PHE:CZ	2.39	0.58
3:JF:309:ARG:H	3:JF:372:THR:HG1	1.47	0.58
4:JG:236:SER:O	4:JG:243:ARG:NH2	2.29	0.58
4:JG:396:ASP:OD1	4:JG:397:LEU:N	2.37	0.58
4:JI:188:ILE:HG22	4:JI:421:ALA:HB1	1.86	0.58
4:JK:12:ALA:HB1	39:JK:501:GTP:C2	2.37	0.58
21:K3:158:ARG:O	21:K3:161:THR:OG1	2.17	0.58
21:K4:19:PRO:HA	21:K4:22:ARG:HE	1.68	0.58
3:KB:11:GLN:HE21	39:KB:501:GTP:H3'	1.69	0.58
22:L1:218:ILE:HG21	3:WB:218:THR:HG21	1.85	0.58
4:LA:229:ARG:HE	4:LA:368:LEU:HD22	1.69	0.58
4:LC:422:ARG:O	4:LC:426:ALA:N	2.31	0.58
4:LC:423:GLU:HA	4:LC:426:ALA:HB3	1.84	0.58
4:LE:269:LEU:N	4:LE:379:SER:O	2.32	0.58
3:LJ:11:GLN:HE21	39:LJ:501:GTP:H3'	1.68	0.58
3:MB:372:THR:HB	3:MB:375:GLN:HE22	1.68	0.58
4:MC:319:TYR:N	4:MC:354:GLY:O	2.33	0.58
3:MD:39:ASP:OD1	3:MD:43:GLN:NE2	2.36	0.58
3:MF:11:GLN:HE21	39:MF:501:GTP:H3'	1.69	0.58
4:NE:236:SER:O	4:NE:243:ARG:NH2	2.35	0.58
3:NH:385:PHE:HZ	3:NH:408:PHE:HB3	1.69	0.58
28:O1:104:ASN:OD1	28:O1:105:ALA:N	2.37	0.58
4:OC:192:HIS:HA	4:OC:195:LEU:HD23	1.86	0.58
3:OL:70:PRO:HA	3:OL:73:MET:HE3	1.85	0.58
4:PC:396:ASP:OD1	4:PC:397:LEU:N	2.36	0.58
4:PE:254:GLU:O	4:PE:258:ASN:ND2	2.25	0.58
3:PF:292:GLN:O	3:PF:298:ASN:ND2	2.32	0.58
4:PI:11:GLN:HB2	4:PI:74:VAL:HG21	1.86	0.58
3:PJ:28:HIS:ND1	3:PJ:43:GLN:HB2	2.19	0.58
3:PJ:77:ARG:O	3:PJ:77:ARG:NH1	2.34	0.58
30:Q2:1427:LYS:HE2	30:Q2:1499:LYS:H	1.69	0.58
4:QE:203:MET:SD	4:QE:203:MET:N	2.75	0.58
4:QG:415:GLU:OE1	4:QG:419:SER:OG	2.21	0.58
4:QK:188:ILE:HG13	4:QK:421:ALA:HB1	1.85	0.58
4:RC:319:TYR:HB2	4:RC:355:ILE:HD13	1.86	0.58
3:SB:316:VAL:HG22	3:SB:352:ALA:HB3	1.85	0.58
4:SC:2:ARG:NH2	4:SC:250:VAL:O	2.37	0.58
3:SJ:32:PRO:O	3:SJ:83:GLN:NE2	2.37	0.58
3:SJ:33:THR:O	3:SJ:58:LYS:NZ	2.36	0.58
3:SJ:114:ASP:OD1	3:SJ:115:SER:N	2.36	0.58
4:SM:272:TYR:CZ	4:SM:274:PRO:HG2	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TB:139:LEU:HD21	3:TB:170:VAL:HG22	1.85	0.58
3:TF:247:ASN:HB3	3:TF:252:LYS:HG2	1.85	0.58
3:TH:392:LYS:HB2	3:TH:395:LEU:HD13	1.85	0.58
4:TI:49:PHE:O	4:TI:53:PHE:N	2.37	0.58
3:TJ:172:SER:HB3	3:TJ:175:VAL:O	2.03	0.58
3:TJ:178:THR:HB	3:TJ:181:GLU:HB2	1.86	0.58
3:TL:322:SER:N	3:TL:325:GLU:OE2	2.36	0.58
3:TN:280:GLN:HB3	36:Z:230:GLU:HG3	1.85	0.58
3:TN:328:GLU:OE1	3:TN:332:ASN:ND2	2.37	0.58
33:U:185:MET:HG3	33:V:513:ARG:NH2	2.19	0.58
4:UA:172:TYR:N	4:UA:204:VAL:O	2.33	0.58
3:UB:46:ARG:HH22	4:UC:73:THR:HA	1.69	0.58
4:UC:273:ALA:N	4:UC:377:MET:HE1	2.19	0.58
3:UD:292:GLN:O	3:UD:298:ASN:ND2	2.37	0.58
4:UI:21:TRP:HE1	4:UI:63:PRO:HB3	1.67	0.58
4:UI:272:TYR:CZ	4:UI:274:PRO:HG2	2.39	0.58
3:UL:309:ARG:HE	3:UL:426:GLN:HE21	1.50	0.58
4:VC:287:SER:OG	4:VC:290:GLU:OE1	2.22	0.58
3:VD:84:ILE:O	3:VD:86:ARG:NH1	2.36	0.58
3:VD:318:ARG:HG3	3:VD:354:CYS:HB3	1.86	0.58
3:VF:2:ARG:HA	3:VF:129:CYS:O	2.04	0.58
3:VF:114:ASP:OD1	3:VF:115:SER:N	2.35	0.58
3:VF:257:MET:HG3	3:VF:258:VAL:HG23	1.84	0.58
4:VG:261:PRO:HA	3:VH:394:PHE:CE1	2.39	0.58
33:W:190:GLU:OE1	33:X:518:LYS:NZ	2.32	0.58
4:WA:67:PHE:HB2	4:WA:92:LEU:HD13	1.85	0.58
3:WD:155:ILE:HA	3:WD:158:GLU:HB2	1.84	0.58
3:WD:305:PRO:HB2	3:WD:310:TYR:HE1	1.69	0.58
3:WF:328:GLU:OE1	3:WF:332:ASN:ND2	2.37	0.58
4:WG:1:MET:N	4:WG:130:THR:OG1	2.37	0.58
4:WG:108:TYR:O	4:WG:112:LYS:NZ	2.26	0.58
34:XF:102:ARG:NH1	34:XF:117:PHE:HD2	2.01	0.58
34:XG:92:GLN:HB3	34:XG:153:ARG:HG3	1.86	0.58
36:Y:151:SER:HB3	36:Z:491:VAL:HG13	1.86	0.58
37:YD:15:TYR:HA	37:YD:18:PHE:HB3	1.86	0.58
37:YF:22:GLN:OE1	37:YF:22:GLN:N	2.33	0.58
37:YJ:53:MET:HE2	37:YJ:66:LEU:HB3	1.85	0.58
37:YJ:140:LEU:HD12	37:YJ:141:ILE:HG13	1.84	0.58
37:YR:99:LYS:HE2	37:YR:147:PHE:HB3	1.86	0.58
2:A1:323:ARG:HH12	2:A2:183:THR:HG22	1.69	0.57
2:A2:367:ARG:NH1	14:G5:179:LYS:O	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:392:ASP:OD1	4:AE:393:HIS:N	2.36	0.57
4:AG:272:TYR:CZ	4:AG:274:PRO:HG2	2.38	0.57
3:AH:376:GLU:HA	3:AH:379:LYS:HG2	1.84	0.57
4:AK:236:SER:O	4:AK:243:ARG:NH2	2.36	0.57
3:AL:84:ILE:O	3:AL:86:ARG:NH1	2.37	0.57
5:B3:108:LEU:HD11	5:B3:396:LYS:HD3	1.86	0.57
5:B3:345:LEU:O	5:B3:349:ILE:HG12	2.04	0.57
5:B6:272:MET:HB3	5:B6:380:LYS:HZ1	1.69	0.57
5:B9:298:ARG:O	5:B9:301:GLU:HG2	2.03	0.57
3:BB:322:SER:N	3:BB:325:GLU:OE2	2.36	0.57
4:BE:118:VAL:HA	4:BE:121:ARG:HG2	1.86	0.57
4:BE:205:ASP:OD2	4:BE:304:LYS:NZ	2.28	0.57
3:BH:4:ILE:HD11	3:BH:131:GLN:HB2	1.84	0.57
4:BI:11:GLN:HB2	4:BI:74:VAL:HG21	1.86	0.57
4:BM:256:GLN:O	4:BM:260:VAL:HG12	2.03	0.57
7:C2:177:ILE:HD12	7:C2:180:ARG:HH21	1.69	0.57
7:C3:200:PHE:O	7:C3:203:GLU:HG3	2.04	0.57
7:C7:361:ILE:HD12	7:C7:462:LYS:NZ	2.09	0.57
3:CF:48:ASN:HA	3:CF:51:TYR:O	2.04	0.57
4:CI:9:VAL:HG23	4:CI:149:PHE:HD2	1.69	0.57
8:D4:220:GLU:O	8:D4:224:ILE:HG13	2.04	0.57
4:DA:171:ILE:HD12	4:DA:204:VAL:HG13	1.84	0.57
4:DC:401:LYS:C	4:DC:402:ARG:HD3	2.28	0.57
4:DK:319:TYR:HB2	4:DK:355:ILE:HD13	1.86	0.57
9:E:828:GLU:HG2	9:E:829:VAL:H	1.68	0.57
3:EB:14:ASN:ND2	3:EB:67:ASP:OD2	2.35	0.57
3:EF:39:ASP:OD1	3:EF:43:GLN:NE2	2.36	0.57
4:EG:33:ASP:OD1	4:EG:34:GLY:N	2.37	0.57
3:EH:385:PHE:HZ	3:EH:408:PHE:HB3	1.68	0.57
4:EI:144:GLY:N	39:EI:501:GTP:O2B	2.34	0.57
3:EJ:55:THR:O	3:EJ:58:LYS:NZ	2.25	0.57
11:F2:90:TYR:HA	14:G4:560:ARG:HD2	1.86	0.57
4:FA:49:PHE:O	4:FA:53:PHE:N	2.36	0.57
4:FA:88:HIS:CE1	4:GA:280:LYS:HZ1	2.21	0.57
4:FG:101:ASN:HA	4:FG:144:GLY:HA2	1.85	0.57
4:FI:34:GLY:HA2	4:FI:86:LEU:HD21	1.86	0.57
3:FJ:60:VAL:HG23	3:FJ:86:ARG:HH11	1.69	0.57
3:FJ:328:GLU:OE1	3:FJ:332:ASN:ND2	2.37	0.57
11:Fb:394:THR:HG21	11:Fc:277:ILE:HA	1.86	0.57
11:Fe:156:LEU:HB2	11:Fe:257:LYS:NZ	2.18	0.57
11:Fi:166:GLU:OE2	11:Fi:318:ARG:NH2	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G4:562:ILE:HG23	14:G4:566:PHE:CE2	2.39	0.57
4:GA:154:MET:HE1	4:GA:197:HIS:HB2	1.86	0.57
4:GE:264:ARG:O	4:GE:266:HIS:ND1	2.35	0.57
4:GK:364:PRO:HG3	25:N:76:PHE:HB2	1.86	0.57
4:HA:392:ASP:OD1	4:HA:393:HIS:N	2.37	0.57
3:HB:326:VAL:HA	3:HB:329:GLN:HG3	1.86	0.57
3:HF:117:LEU:HD11	3:HF:154:LYS:HD2	1.84	0.57
4:HI:89:PRO:HD2	4:II:280:LYS:NZ	2.19	0.57
4:HI:172:TYR:HB2	4:HI:203:MET:HB2	1.84	0.57
3:HJ:132:GLY:HA2	3:HJ:162:ARG:HB3	1.85	0.57
4:HK:75:VAL:HG23	4:HK:92:LEU:HD12	1.85	0.57
4:HK:244:PHE:HB2	4:HK:356:ASN:HD21	1.67	0.57
3:HL:395:LEU:HG	3:HL:403:MET:HE1	1.86	0.57
3:IB:132:GLY:HA2	3:IB:162:ARG:HB3	1.85	0.57
4:IC:419:SER:HA	4:IC:422:ARG:HH21	1.69	0.57
4:IG:207:GLU:HB2	4:IG:304:LYS:HZ1	1.67	0.57
3:IH:172:SER:OG	3:IH:205:GLU:OE2	2.21	0.57
3:IL:385:PHE:HA	3:IL:388:MET:HG2	1.85	0.57
4:IM:9:VAL:HG11	4:IM:150:ALA:HB2	1.86	0.57
4:JC:278:ALA:O	4:JC:370:LYS:NZ	2.37	0.57
4:JK:7:ILE:N	4:JK:136:LEU:O	2.37	0.57
21:K2:377:ILE:O	21:K3:115:ARG:NE	2.37	0.57
21:K4:472:VAL:HG22	4:KK:163:LYS:HE3	1.86	0.57
4:KA:265:ILE:HD12	4:KA:267:PHE:HD1	1.68	0.57
4:KA:319:TYR:HD2	4:KA:323:VAL:HG11	1.69	0.57
3:KB:269:GLY:HA2	3:KB:300:MET:HE1	1.85	0.57
4:KC:319:TYR:N	4:KC:354:GLY:O	2.34	0.57
3:KD:12:CYS:SG	39:KD:501:GTP:H5'	2.44	0.57
4:KE:216:ASN:HB2	4:KE:276:ILE:HD12	1.86	0.57
3:KJ:47:ILE:HG21	3:KJ:59:TYR:CZ	2.37	0.57
3:KJ:167:PHE:HD1	3:KJ:200:TYR:HD2	1.50	0.57
4:LA:245:ASP:O	4:LA:356:ASN:ND2	2.37	0.57
4:LE:67:PHE:HB2	4:LE:92:LEU:HD13	1.86	0.57
4:LE:319:TYR:N	4:LE:354:GLY:O	2.34	0.57
4:LG:185:TYR:HA	4:LG:395:PHE:HE1	1.69	0.57
3:LH:269:GLY:N	3:LH:367:PHE:O	2.37	0.57
4:LI:32:PRO:O	4:LI:85:GLN:NE2	2.37	0.57
4:LI:319:TYR:HB2	4:LI:355:ILE:HD13	1.86	0.57
4:MM:119:LEU:HA	4:MM:122:ILE:HG12	1.85	0.57
4:NC:34:GLY:HA2	4:NC:86:LEU:HD21	1.86	0.57
3:NH:13:GLY:HA2	3:NH:16:ILE:HB	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:NK:103:TYR:HB2	4:NK:186:ASN:HB2	1.86	0.57
3:NL:379:LYS:O	3:NL:382:SER:OG	2.20	0.57
28:O1:84:ARG:HE	28:O1:85:THR:H	1.50	0.57
28:O2:92:LEU:HA	28:O2:95:TRP:HB3	1.86	0.57
4:OA:2:ARG:NH2	4:OA:250:VAL:O	2.37	0.57
4:OA:49:PHE:O	4:OA:53:PHE:N	2.36	0.57
4:OA:371:VAL:HG11	4:OA:374:ALA:HB2	1.85	0.57
3:OB:186:THR:HA	3:OB:189:VAL:HG12	1.86	0.57
3:OB:211:CYS:HA	3:OB:215:LEU:HB2	1.85	0.57
29:P3:593:MET:O	29:P3:594:ARG:NH1	2.37	0.57
3:PF:328:GLU:OE1	3:PF:332:ASN:ND2	2.37	0.57
4:PI:396:ASP:OD1	4:PI:397:LEU:N	2.37	0.57
3:PJ:39:ASP:OD1	3:PJ:43:GLN:NE2	2.36	0.57
4:PK:102:ASN:ND2	4:PK:411:GLU:OE2	2.36	0.57
4:PK:171:ILE:HD12	4:PK:204:VAL:HG13	1.85	0.57
30:Q1:1427:LYS:HE2	30:Q1:1499:LYS:H	1.68	0.57
4:QC:46:ASP:OD1	4:QC:50:ASN:ND2	2.34	0.57
3:QD:32:PRO:O	3:QD:83:GLN:NE2	2.31	0.57
3:QD:132:GLY:HA2	3:QD:162:ARG:HB3	1.85	0.57
39:QD:502:GTP:O1B	4:QE:11:GLN:HG3	2.04	0.57
4:QE:216:ASN:ND2	4:QE:275:VAL:O	2.37	0.57
3:QF:375:GLN:HA	3:QF:378:PHE:CZ	2.39	0.57
4:QG:208:ALA:H	4:QG:304:LYS:HZ1	1.50	0.57
3:QH:392:LYS:HB2	3:QH:395:LEU:HD13	1.86	0.57
3:QJ:322:SER:N	3:QJ:325:GLU:OE2	2.36	0.57
3:QJ:419:VAL:HG12	3:QJ:423:GLN:HE22	1.68	0.57
4:QK:273:ALA:N	4:QK:377:MET:HE1	2.19	0.57
3:QL:166:THR:OG1	3:QL:198:GLU:O	2.22	0.57
4:QM:411:GLU:OE2	4:QM:413:MET:HE1	2.03	0.57
3:RB:295:ASP:HB2	3:RB:298:ASN:HB2	1.86	0.57
3:RF:84:ILE:O	3:RF:86:ARG:NH1	2.36	0.57
4:RM:271:THR:HB	4:RM:377:MET:HB3	1.86	0.57
3:SD:217:LEU:HD11	3:SD:220:PRO:HB3	1.87	0.57
3:SF:141:GLY:HA3	39:SF:501:GTP:H5"	1.85	0.57
3:SJ:323:MET:N	3:SJ:323:MET:SD	2.77	0.57
3:SL:374:ILE:HA	3:SL:377:LEU:HD13	1.86	0.57
3:TB:60:VAL:HG23	3:TB:86:ARG:HH11	1.68	0.57
4:TE:216:ASN:ND2	4:TE:275:VAL:O	2.37	0.57
3:TF:419:VAL:HG12	3:TF:423:GLN:HE22	1.69	0.57
4:TG:273:ALA:HB2	4:TG:295:CYS:HB3	1.85	0.57
3:TH:3:GLU:OE2	3:TH:127:CYS:HB3	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TH:11:GLN:HE21	39:TH:501:GTP:H3'	1.69	0.57
3:TJ:318:ARG:HD2	3:TJ:358:PRO:HG3	1.85	0.57
3:TL:3:GLU:HG2	3:TL:130:LEU:HD23	1.85	0.57
3:TL:83:GLN:O	3:TL:86:ARG:NH2	2.37	0.57
3:TL:321:MET:SD	3:TL:363:MET:HB2	2.44	0.57
3:TN:211:CYS:HA	3:TN:215:LEU:HB2	1.86	0.57
3:UB:64:VAL:HA	3:UB:89:ASN:HB3	1.86	0.57
3:UF:118:ASP:OD1	3:UF:121:ARG:NH1	2.37	0.57
3:UF:194:GLU:OE1	3:UF:195:ASN:ND2	2.37	0.57
4:UI:396:ASP:OD1	4:UI:397:LEU:N	2.37	0.57
3:UJ:328:GLU:OE1	3:UJ:332:ASN:ND2	2.37	0.57
4:VA:396:ASP:OD1	4:VA:397:LEU:N	2.36	0.57
3:VJ:28:HIS:ND1	3:VJ:43:GLN:HB2	2.19	0.57
3:VJ:261:PRO:HD3	4:VK:406:HIS:CG	2.39	0.57
3:WD:170:VAL:N	3:WD:202:ILE:O	2.33	0.57
3:WH:426:GLN:NE2	3:WH:427:ASP:OD2	2.37	0.57
4:WI:208:ALA:H	4:WI:304:LYS:NZ	2.01	0.57
3:WL:103:LYS:HG2	3:WL:108:GLU:HG2	1.85	0.57
3:WL:175:VAL:HG22	3:WL:177:ASP:H	1.68	0.57
34:XF:71:ILE:HG21	34:XF:167:PHE:HD2	1.69	0.57
35:XH:182:ASN:ND2	35:XH:231:MET:O	2.37	0.57
37:YD:29:LEU:HB3	37:YD:33:ARG:HH12	1.68	0.57
37:YF:57:CYS:O	37:YF:63:ARG:NH1	2.37	0.57
37:YJ:119:HIS:CE1	37:YJ:139:SER:HB3	2.39	0.57
37:YJ:141:ILE:O	37:YJ:145:LEU:N	2.34	0.57
37:YR:5:LYS:HG3	37:YR:9:ARG:HE	1.68	0.57
1:A:95:ASN:OD1	1:A:96:GLU:N	2.37	0.57
2:A1:284:LYS:HZ3	2:A2:31:ARG:HE	1.52	0.57
4:AC:214:ARG:NH1	4:AC:215:ARG:HG3	2.19	0.57
3:AD:214:THR:HG21	3:AD:273:LEU:HB3	1.85	0.57
3:AD:276:ARG:HH22	14:G4:34:MET:HG3	1.69	0.57
4:AG:172:TYR:N	4:AG:204:VAL:O	2.26	0.57
4:AK:49:PHE:O	4:AK:53:PHE:N	2.36	0.57
4:AK:192:HIS:HA	4:AK:195:LEU:HD23	1.86	0.57
3:AL:214:THR:HG21	3:AL:273:LEU:HB3	1.84	0.57
5:B4:120:ARG:NH2	5:B4:386:LEU:HB3	2.19	0.57
3:BD:81:PHE:O	3:BD:84:ILE:HG22	2.05	0.57
3:BJ:360:GLY:HA3	13:G2:111:MET:HE3	1.85	0.57
3:BJ:390:ARG:NH1	3:BJ:391:ARG:HE	2.01	0.57
3:CB:289:LEU:HD21	3:CB:363:MET:HB3	1.86	0.57
4:CG:84:ARG:NE	15:H3:212:LEU:HD12	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CG:180:ALA:HB1	4:CG:182:VAL:HG12	1.84	0.57
4:CI:1:MET:O	4:CI:131:GLY:HA3	2.04	0.57
4:CI:143:GLY:HA3	4:CI:147:SER:H	1.69	0.57
4:CI:271:THR:HA	4:CI:302:MET:HE1	1.85	0.57
4:CK:269:LEU:N	4:CK:379:SER:O	2.29	0.57
4:CM:67:PHE:HB2	4:CM:92:LEU:HD13	1.85	0.57
7:Cc:379:ILE:O	7:Cc:382:ILE:HG22	2.03	0.57
8:D6:376:ARG:NH1	8:D7:102:LYS:HB2	2.20	0.57
8:D7:335:GLN:HB3	8:D8:78:ARG:HH21	1.69	0.57
3:DB:139:LEU:N	3:DB:168:SER:OG	2.36	0.57
3:DD:47:ILE:HG12	3:DD:59:TYR:CD2	2.40	0.57
3:EB:170:VAL:N	3:EB:202:ILE:O	2.33	0.57
3:EB:172:SER:OG	3:EB:205:GLU:OE2	2.19	0.57
4:EC:205:ASP:OD2	4:EC:304:LYS:NZ	2.33	0.57
3:ED:12:CYS:HA	39:ED:501:GTP:N2	2.19	0.57
3:ED:28:HIS:ND1	3:ED:43:GLN:HB2	2.20	0.57
3:EL:268:PRO:HD2	3:EL:301:ALA:HB2	1.84	0.57
11:F3:125:GLN:HG2	11:F3:129:GLN:HE22	1.67	0.57
11:F5:260:ALA:HA	11:F6:402:ARG:HH21	1.69	0.57
4:FA:34:GLY:HA2	4:FA:86:LEU:HD21	1.86	0.57
4:FA:319:TYR:HB2	4:FA:355:ILE:HD13	1.85	0.57
4:FC:33:ASP:OD1	4:FC:34:GLY:N	2.37	0.57
3:FD:376:GLU:HA	3:FD:379:LYS:HE3	1.86	0.57
4:FE:26:LEU:HD11	4:FE:363:VAL:HA	1.85	0.57
4:FG:49:PHE:O	4:FG:53:PHE:N	2.35	0.57
4:FK:9:VAL:HG11	4:FK:150:ALA:HB2	1.85	0.57
4:FK:155:GLU:O	4:FK:158:SER:OG	2.20	0.57
3:FL:322:SER:OG	3:FL:324:LYS:NZ	2.32	0.57
11:Fb:131:ILE:HA	11:Fb:134:MET:HE3	1.86	0.57
11:Fe:356:LYS:O	11:Fe:359:THR:OG1	2.18	0.57
13:G1:106:ASP:HA	13:G1:115:TYR:HA	1.85	0.57
14:G4:575:LYS:HZ1	14:G4:736:LEU:HD22	1.69	0.57
14:G5:75:ASP:O	14:G5:77:GLN:NE2	2.34	0.57
14:G5:559:SER:O	14:G5:743:TYR:OH	2.16	0.57
14:G6:328:VAL:HG13	14:G6:330:GLN:HE22	1.69	0.57
3:GD:240:LEU:HA	3:GD:248:ALA:HB1	1.86	0.57
4:GE:12:ALA:HB2	39:GE:501:GTP:H5"	1.86	0.57
4:GE:88:HIS:HB3	4:GE:91:GLN:HB2	1.86	0.57
4:GK:245:ASP:O	4:GK:356:ASN:ND2	2.37	0.57
4:GK:252:LEU:HA	4:GK:255:PHE:HD2	1.68	0.57
4:HC:192:HIS:HA	4:HC:195:LEU:HD23	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HD:46:ARG:HH12	4:HE:73:THR:HG23	1.69	0.57
4:HI:211:ASP:O	4:HI:214:ARG:NH1	2.37	0.57
4:IA:168:GLU:HB2	4:IA:201:ALA:HA	1.86	0.57
4:IE:272:TYR:CZ	4:IE:274:PRO:HG2	2.40	0.57
3:IH:8:GLN:HG2	3:IH:65:LEU:HA	1.87	0.57
3:IH:131:GLN:HB3	3:IH:163:ILE:HD12	1.86	0.57
4:II:10:GLY:O	4:II:14:VAL:HG13	2.04	0.57
3:IJ:273:LEU:O	3:IJ:292:GLN:NE2	2.35	0.57
18:J:145:LEU:HD11	3:JH:41:ASP:HB3	1.86	0.57
3:JD:392:LYS:HB2	3:JD:395:LEU:HD13	1.87	0.57
4:JE:236:SER:O	4:JE:243:ARG:NH2	2.31	0.57
4:JI:3:GLU:OE2	4:JI:130:THR:N	2.34	0.57
3:JJ:11:GLN:HE21	39:JJ:501:GTP:H3'	1.69	0.57
4:JK:262:TYR:HE1	3:JL:393:ALA:HA	1.68	0.57
21:K3:391:GLU:O	21:K3:392:LYS:C	2.47	0.57
3:KB:328:GLU:OE1	3:KB:332:ASN:ND2	2.37	0.57
3:KH:269:GLY:N	3:KH:367:PHE:O	2.37	0.57
4:KK:1:MET:O	4:KK:133:GLN:NE2	2.35	0.57
4:KK:272:TYR:CZ	4:KK:274:PRO:HG2	2.38	0.57
22:L1:129:ARG:NH2	4:LC:92:LEU:O	2.35	0.57
22:L3:49:MET:SD	22:L3:49:MET:N	2.77	0.57
4:LI:423:GLU:HA	4:LI:426:ALA:HB3	1.86	0.57
3:LJ:269:GLY:HA3	3:LJ:367:PHE:HB3	1.84	0.57
24:M3:48:LYS:HZ1	24:M3:92:TYR:HB3	1.69	0.57
3:MB:324:LYS:HE2	4:MC:222:PRO:HG2	1.84	0.57
4:MI:245:ASP:O	4:MI:356:ASN:ND2	2.37	0.57
4:MK:208:ALA:H	4:MK:304:LYS:HZ1	1.52	0.57
4:OC:423:GLU:HA	4:OC:426:ALA:HB3	1.86	0.57
4:OG:338:LYS:HZ2	4:OG:340:THR:H	1.51	0.57
3:OJ:189:VAL:HA	3:OJ:192:LEU:HB2	1.85	0.57
3:OJ:238:THR:HG22	3:OJ:241:ARG:HH21	1.69	0.57
3:OL:132:GLY:HA2	3:OL:162:ARG:HB3	1.85	0.57
27:P:174:ARG:O	27:P:178:LEU:N	2.34	0.57
4:PC:127:ASP:OD1	4:PC:128:LEU:N	2.37	0.57
4:PC:329:ASN:OD1	4:PC:330:ALA:N	2.37	0.57
3:PD:15:GLN:HG2	3:PD:222:TYR:CE2	2.39	0.57
3:PF:50:TYR:HE2	3:PF:241:ARG:HE	1.52	0.57
4:PI:68:VAL:HG12	4:PI:93:ILE:HB	1.86	0.57
4:QE:262:TYR:OH	3:QF:391:ARG:O	2.21	0.57
4:QG:144:GLY:N	39:QG:501:GTP:O2B	2.37	0.57
3:QH:39:ASP:OD1	3:QH:43:GLN:NE2	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QL:139:LEU:HD21	3:QL:170:VAL:HG22	1.86	0.57
4:QM:206:ASN:HA	4:QM:209:ILE:HD12	1.86	0.57
4:QM:306:ASP:OD2	4:QM:309:HIS:ND1	2.37	0.57
31:R1:119:ASN:HB3	31:R1:122:ALA:HB3	1.85	0.57
4:RC:127:ASP:OD1	4:RC:128:LEU:N	2.37	0.57
3:RD:316:VAL:HG22	3:RD:352:ALA:HB3	1.84	0.57
4:RE:371:VAL:HG11	4:RE:374:ALA:HB2	1.86	0.57
4:RG:30:ILE:HG13	4:RG:53:PHE:HE2	1.70	0.57
3:RH:250:LEU:HD13	3:RH:253:LEU:HD12	1.87	0.57
3:RJ:173:PRO:HD3	3:RJ:203:ASP:OD1	2.04	0.57
4:RK:34:GLY:HA2	4:RK:86:LEU:HD21	1.86	0.57
4:SG:21:TRP:HA	4:SG:24:TYR:HB2	1.86	0.57
4:SG:32:PRO:O	4:SG:85:GLN:NE2	2.37	0.57
4:SI:261:PRO:HA	3:SJ:394:PHE:CE1	2.39	0.57
3:TD:144:GLY:HA2	3:TD:147:MET:HE3	1.86	0.57
4:TE:98:ASP:O	4:TE:105:ARG:NH2	2.30	0.57
3:TH:28:HIS:ND1	3:TH:43:GLN:HB2	2.19	0.57
4:TM:223:THR:OG1	4:TM:225:THR:OG1	2.20	0.57
3:UB:2:ARG:HB3	3:UB:131:GLN:NE2	2.19	0.57
3:UB:316:VAL:HG22	3:UB:352:ALA:HB3	1.86	0.57
4:UE:49:PHE:O	4:UE:53:PHE:N	2.33	0.57
4:UI:206:ASN:HA	4:UI:209:ILE:HD12	1.86	0.57
4:UI:239:THR:OG1	4:UI:243:ARG:NH1	2.36	0.57
4:VE:264:ARG:O	4:VE:266:HIS:ND1	2.37	0.57
4:VG:205:ASP:OD2	4:VG:304:LYS:NZ	2.30	0.57
33:W:142:VAL:HG12	33:W:146:LYS:NZ	2.19	0.57
3:WD:322:SER:OG	3:WD:323:MET:SD	2.62	0.57
4:WE:32:PRO:O	4:WE:85:GLN:NE2	2.36	0.57
4:WI:98:ASP:O	4:WI:105:ARG:NH2	2.31	0.57
3:WJ:84:ILE:O	3:WJ:86:ARG:NH1	2.37	0.57
34:XC:78:MET:HB3	34:XC:132:ILE:HG13	1.85	0.57
34:XD:40:ASN:OD1	34:XD:41:ASP:N	2.36	0.57
34:XE:76:LEU:HD23	34:XE:136:LEU:HD11	1.87	0.57
34:XF:102:ARG:O	34:XF:118:ILE:HA	2.04	0.57
37:YW:6:GLU:CD	37:YW:9:ARG:HH22	2.13	0.57
3:AB:183:TYR:CZ	3:AB:388:MET:HG3	2.39	0.57
3:AD:269:GLY:N	3:AD:367:PHE:O	2.37	0.57
3:AH:60:VAL:HG23	3:AH:86:ARG:HH11	1.69	0.57
4:AI:102:ASN:ND2	4:AI:411:GLU:OE2	2.35	0.57
4:AK:68:VAL:HG12	4:AK:93:ILE:HB	1.85	0.57
5:B3:85:LEU:O	5:B3:89:ILE:HG12	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B4:55:TRP:HA	5:B4:58:HIS:CE1	2.39	0.57
5:B4:386:LEU:HA	5:B4:389:LYS:HG2	1.86	0.57
5:B6:167:GLU:O	5:B6:170:GLN:NE2	2.37	0.57
5:B7:168:ILE:HD13	5:B7:171:GLN:HE22	1.68	0.57
5:B8:345:LEU:O	5:B8:349:ILE:HG12	2.05	0.57
4:BC:33:ASP:OD1	4:BC:34:GLY:N	2.36	0.57
4:BC:413:MET:HE3	4:BC:413:MET:HA	1.86	0.57
4:BE:1:MET:O	4:BE:131:GLY:HA3	2.04	0.57
4:BI:371:VAL:HG11	4:BI:374:ALA:HB2	1.85	0.57
3:BJ:361:LEU:HD22	13:G2:111:MET:HE1	1.86	0.57
6:C:195:LEU:O	6:C:212:ARG:NH1	2.36	0.57
6:C:303:PHE:HA	16:I:113:LEU:HD22	1.86	0.57
7:C2:403:ARG:O	7:C2:406:ARG:NE	2.32	0.57
3:CB:56:GLY:O	3:CB:58:LYS:NZ	2.28	0.57
4:CC:11:GLN:O	4:CC:14:VAL:HG22	2.04	0.57
4:CE:316:CYS:N	4:CE:378:LEU:O	2.28	0.57
3:CH:43:GLN:O	3:CH:241:ARG:NH2	2.38	0.57
4:CI:1:MET:SD	4:CI:2:ARG:N	2.77	0.57
4:CM:171:ILE:HD12	4:CM:204:VAL:HG13	1.85	0.57
7:Cb:222:GLU:OE2	7:Cb:339:GLN:HB3	2.04	0.57
7:Cd:248:ARG:HA	7:Cd:251:GLN:HE21	1.69	0.57
8:D3:351:ARG:CZ	8:D3:355:THR:HG21	2.34	0.57
8:D4:180:THR:O	8:D4:184:ARG:NE	2.30	0.57
8:D9:324:LYS:HE2	8:Da:71:ARG:HH12	1.69	0.57
3:DB:2:ARG:HB3	3:DB:131:GLN:NE2	2.19	0.57
4:DC:319:TYR:HB2	4:DC:355:ILE:HD13	1.86	0.57
3:DD:19:LYS:NZ	3:DD:223:GLY:O	2.37	0.57
3:DF:386:THR:O	3:DF:390:ARG:N	2.35	0.57
4:DG:33:ASP:OD1	4:DG:34:GLY:N	2.37	0.57
4:DK:144:GLY:N	39:DK:501:GTP:O2B	2.36	0.57
3:DL:68:LEU:HD12	3:DL:97:ALA:HB2	1.85	0.57
3:EB:285:THR:O	3:EB:288:GLU:HG3	2.04	0.57
4:EC:22:GLU:O	4:EC:26:LEU:HD23	2.04	0.57
4:EC:144:GLY:N	39:EC:501:GTP:O2B	2.37	0.57
3:EF:174:LYS:HG3	3:EF:175:VAL:HG12	1.86	0.57
3:EF:317:PHE:HB3	3:EF:321:MET:HE3	1.85	0.57
4:EG:319:TYR:N	4:EG:354:GLY:O	2.37	0.57
3:EJ:235:GLY:O	3:EJ:238:THR:OG1	2.20	0.57
3:EL:77:ARG:NH1	13:G3:465:LYS:HE3	2.19	0.57
11:F2:180:ALA:O	11:F2:184:VAL:HG23	2.04	0.57
11:F4:89:ARG:NH1	14:G6:746:GLU:HG3	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FB:273:LEU:H	3:FB:292:GLN:HE22	1.51	0.57
4:FC:25:CYS:HB2	4:FC:30:ILE:HB	1.85	0.57
4:FE:5:ILE:HD13	4:FE:64:ARG:HB3	1.87	0.57
3:FF:194:GLU:OE1	3:FF:195:ASN:ND2	2.37	0.57
4:FG:316:CYS:N	4:FG:378:LEU:O	2.37	0.57
4:FI:331:ALA:O	4:FI:334:THR:OG1	2.21	0.57
3:FL:375:GLN:HA	3:FL:378:PHE:CZ	2.40	0.57
11:Fl:447:THR:HA	11:Fl:450:ARG:NE	2.19	0.57
14:G5:434:LEU:HG	14:G5:456:PHE:HB3	1.86	0.57
14:G6:637:MET:O	14:G6:641:ASN:ND2	2.38	0.57
3:GB:250:LEU:O	3:GB:254:ALA:N	2.32	0.57
3:GD:372:THR:HG21	3:GD:426:GLN:HG2	1.86	0.57
3:GF:317:PHE:HB3	3:GF:321:MET:HE3	1.85	0.57
4:GK:181:VAL:HG23	4:GK:404:PHE:HE2	1.68	0.57
4:GK:264:ARG:O	4:GK:266:HIS:ND1	2.33	0.57
4:GK:320:ARG:HA	4:GK:356:ASN:HB3	1.87	0.57
4:HE:220:GLU:O	4:HE:221:ARG:NE	2.37	0.57
4:HK:324:VAL:HG21	3:HL:219:THR:HG22	1.84	0.57
4:HK:349:THR:HG23	3:HL:179:VAL:HG12	1.86	0.57
4:HK:363:VAL:H	4:HK:368:LEU:HD21	1.70	0.57
4:IC:33:ASP:OD1	4:IC:34:GLY:N	2.37	0.57
4:II:33:ASP:OD1	4:II:34:GLY:N	2.36	0.57
4:IK:32:PRO:O	4:IK:85:GLN:NE2	2.36	0.57
4:IM:392:ASP:OD1	4:IM:393:HIS:N	2.37	0.57
19:J1:114:THR:HG23	19:J1:152:LEU:HD11	1.86	0.57
4:JA:269:LEU:N	4:JA:379:SER:O	2.32	0.57
4:JG:9:VAL:HA	4:JG:68:VAL:HG23	1.86	0.57
3:JH:286:VAL:HG21	3:JH:325:GLU:HG3	1.86	0.57
4:JI:88:HIS:CD2	4:KI:280:LYS:HZ1	2.22	0.57
4:JI:205:ASP:OD2	4:JI:304:LYS:NZ	2.34	0.57
3:JJ:151:LEU:HD22	3:JJ:154:LYS:HZ1	1.69	0.57
3:JL:282:ARG:NH2	3:JL:292:GLN:OE1	2.25	0.57
4:KC:32:PRO:O	4:KC:85:GLN:NE2	2.37	0.57
3:KD:13:GLY:HA2	3:KD:16:ILE:HB	1.87	0.57
3:LD:222:TYR:HA	3:LD:225:LEU:HD13	1.86	0.57
3:LD:347:ASN:HB3	4:LE:178:SER:HB3	1.86	0.57
3:MD:11:GLN:NE2	39:MD:501:GTP:O1G	2.30	0.57
3:MD:207:LEU:HD22	3:MD:228:LEU:HD11	1.85	0.57
4:ME:34:GLY:HA2	4:ME:86:LEU:HD21	1.85	0.57
3:MF:269:GLY:N	3:MF:367:PHE:O	2.37	0.57
4:MG:319:TYR:N	4:MG:354:GLY:O	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MH:206:ALA:O	3:MH:210:ILE:HG12	2.04	0.57
3:ML:392:LYS:HB2	3:ML:395:LEU:HD13	1.86	0.57
3:NB:345:ILE:HA	4:NC:398:MET:HE1	1.85	0.57
4:NC:32:PRO:O	4:NC:85:GLN:NE2	2.37	0.57
4:NC:172:TYR:N	4:NC:204:VAL:O	2.31	0.57
4:NC:207:GLU:HB2	4:NC:304:LYS:NZ	2.19	0.57
4:NE:6:SER:HA	4:NE:136:LEU:HB2	1.85	0.57
4:NE:214:ARG:NH1	4:NE:215:ARG:HG3	2.19	0.57
3:NL:250:LEU:O	3:NL:254:ALA:N	2.32	0.57
3:OB:182:PRO:O	3:OB:185:ALA:N	2.34	0.57
4:OC:234:ILE:HD11	4:OC:272:TYR:HB2	1.86	0.57
3:OF:398:TYR:HB3	3:OF:403:MET:HB2	1.85	0.57
3:OH:152:ILE:HD13	3:OH:164:MET:HE2	1.85	0.57
3:OH:282:ARG:NH2	3:OH:292:GLN:OE1	2.25	0.57
29:P1:338:ILE:HG22	29:P1:350:THR:HG22	1.85	0.57
3:PB:11:GLN:HE21	39:PB:501:GTP:H3'	1.70	0.57
4:PC:205:ASP:OD2	4:PC:304:LYS:NZ	2.35	0.57
4:PG:108:TYR:O	4:PG:112:LYS:NZ	2.28	0.57
3:PJ:52:ASN:OD1	3:PJ:62:ARG:NH1	2.36	0.57
3:PL:245:GLN:HG3	4:PM:11:GLN:HE22	1.68	0.57
3:PL:249:ASP:O	3:PL:252:LYS:HB2	2.04	0.57
3:PL:286:VAL:HG21	3:PL:325:GLU:HG3	1.86	0.57
3:PL:317:PHE:HB3	3:PL:321:MET:HE3	1.86	0.57
3:QF:84:ILE:O	3:QF:86:ARG:NH1	2.37	0.57
4:RC:206:ASN:HA	4:RC:209:ILE:HD12	1.86	0.57
4:RI:33:ASP:OD1	4:RI:34:GLY:N	2.38	0.57
4:RI:271:THR:HB	4:RI:377:MET:HB3	1.86	0.57
3:TF:322:SER:N	3:TF:325:GLU:OE2	2.36	0.57
3:TH:2:ARG:HB3	3:TH:131:GLN:NE2	2.19	0.57
4:TI:53:PHE:O	4:TI:64:ARG:NH1	2.36	0.57
4:TI:401:LYS:C	4:TI:402:ARG:HD3	2.29	0.57
3:TJ:19:LYS:NZ	3:TJ:223:GLY:O	2.37	0.57
4:TK:396:ASP:OD1	4:TK:397:LEU:N	2.37	0.57
4:UC:161:TYR:O	4:UC:166:LYS:NZ	2.36	0.57
4:UG:33:ASP:OD1	4:UG:34:GLY:N	2.36	0.57
4:UI:89:PRO:HD2	4:VI:280:LYS:HZ3	1.68	0.57
3:UJ:406:MET:O	3:UJ:409:THR:OG1	2.18	0.57
4:UK:33:ASP:OD1	4:UK:34:GLY:N	2.37	0.57
3:UL:322:SER:N	3:UL:325:GLU:OE2	2.33	0.57
4:VA:125:LEU:HD13	4:VA:128:LEU:HD21	1.85	0.57
3:VJ:173:PRO:O	3:VJ:380:ARG:NH2	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:W:290:LEU:HA	33:W:293:LEU:HB2	1.85	0.57
3:WB:28:HIS:ND1	3:WB:43:GLN:HB2	2.19	0.57
4:WC:67:PHE:HB2	4:WC:92:LEU:HD13	1.86	0.57
4:WE:76:ASP:OD1	4:WE:79:ARG:NH1	2.37	0.57
35:XH:158:HIS:O	35:XH:162:SER:OG	2.18	0.57
37:YF:5:LYS:HA	37:YF:8:LEU:HB2	1.86	0.57
37:YG:15:TYR:OH	37:YG:141:ILE:HG21	2.04	0.57
2:A3:61:LYS:HD2	5:B2:281:TRP:CE2	2.39	0.57
4:AC:280:LYS:NZ	4:MC:89:PRO:HD2	2.19	0.57
4:AE:208:ALA:N	4:AE:304:LYS:HZ1	1.96	0.57
3:AF:2:ARG:HB3	3:AF:131:GLN:NE2	2.19	0.57
5:B1:396:LYS:HZ1	10:E4:61:GLN:HA	1.68	0.57
5:B2:302:GLU:HA	5:B2:305:ARG:HE	1.68	0.57
5:B4:257:GLN:O	5:B4:261:THR:HG23	2.04	0.57
5:B6:45:LEU:HD23	5:B7:355:LYS:HD2	1.86	0.57
5:B7:277:SER:HA	5:B7:280:LYS:NZ	2.18	0.57
3:BB:101:TRP:HB2	3:BB:184:ASN:HD22	1.69	0.57
4:BC:401:LYS:C	4:BC:402:ARG:HD3	2.29	0.57
3:BH:54:ALA:O	15:H4:28:ARG:NH1	2.37	0.57
3:BL:32:PRO:O	3:BL:83:GLN:NE2	2.37	0.57
3:BL:141:GLY:HA3	39:BL:501:GTP:H5"	1.84	0.57
4:BM:216:ASN:ND2	4:BM:275:VAL:O	2.38	0.57
7:C6:329:LEU:O	7:C6:333:ALA:N	2.36	0.57
7:C7:347:PHE:CE2	7:C7:351:ILE:HD11	2.39	0.57
4:CC:69:ASP:OD1	4:CC:70:LEU:N	2.37	0.57
3:CF:11:GLN:HE21	39:CF:501:GTP:H3'	1.68	0.57
4:CK:205:ASP:OD2	4:CK:304:LYS:NZ	2.38	0.57
4:CK:208:ALA:H	4:CK:304:LYS:NZ	2.02	0.57
3:CL:262:ARG:NH2	3:CL:425:TYR:OH	2.38	0.57
3:CL:322:SER:N	3:CL:325:GLU:OE2	2.36	0.57
4:CM:393:HIS:CE1	4:CM:394:LYS:HE3	2.39	0.57
7:Ca:184:GLY:O	7:Ca:188:THR:HG23	2.03	0.57
7:Cc:448:LEU:HD22	7:Cd:114:ARG:HH21	1.69	0.57
8:D4:210:SER:O	8:D4:213:MET:HG3	2.05	0.57
8:D4:233:ASN:HA	8:D5:352:VAL:HG21	1.86	0.57
8:D7:343:ILE:HG12	8:D7:391:LEU:HD13	1.87	0.57
8:D9:59:ASN:O	8:D9:63:ARG:HG2	2.03	0.57
3:DB:156:ARG:NH1	3:DB:195:ASN:O	2.38	0.57
4:DG:12:ALA:HB1	39:DG:501:GTP:C2	2.38	0.57
4:DG:413:MET:HE3	4:DG:413:MET:HA	1.85	0.57
4:DI:154:MET:HE1	4:DI:197:HIS:HB2	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DL:130:LEU:O	3:DL:162:ARG:NH2	2.37	0.57
3:DL:173:PRO:O	3:DL:380:ARG:NH2	2.37	0.57
3:EB:250:LEU:HD13	3:EB:253:LEU:HD12	1.86	0.57
3:ED:11:GLN:HE21	39:ED:501:GTP:H3'	1.69	0.57
4:EE:108:TYR:O	4:EE:112:LYS:NZ	2.28	0.57
3:EH:337:ASN:HD22	3:EH:340:TYR:HD2	1.53	0.57
11:F7:152:TRP:O	11:F7:155:GLU:HG2	2.05	0.57
11:F8:224:CYS:SG	11:F8:228:GLN:NE2	2.68	0.57
39:FB:501:GTP:O3G	39:FB:501:GTP:O3'	2.15	0.57
4:FC:89:PRO:HD2	4:GC:280:LYS:HZ3	1.69	0.57
3:FF:350:LYS:HE3	4:FG:180:ALA:HA	1.85	0.57
4:FI:5:ILE:HD13	4:FI:64:ARG:HB3	1.85	0.57
4:FI:68:VAL:HG12	4:FI:93:ILE:HB	1.87	0.57
4:FI:154:MET:HE3	4:FI:194:THR:HG22	1.85	0.57
4:FK:10:GLY:O	4:FK:14:VAL:HG13	2.04	0.57
4:FK:324:VAL:HG21	3:FL:219:THR:HG22	1.86	0.57
11:Fb:285:LYS:HD2	11:Fb:285:LYS:O	2.05	0.57
11:Fg:167:ASN:HD21	11:Fg:243:ASN:HB3	1.69	0.57
13:G2:404:ALA:O	13:G2:406:ARG:NH1	2.37	0.57
4:GC:33:ASP:OD1	4:GC:34:GLY:N	2.37	0.57
3:GD:170:VAL:N	3:GD:202:ILE:O	2.35	0.57
3:GD:258:VAL:HG23	3:GD:263:LEU:HB2	1.86	0.57
3:GD:415:MET:O	3:GD:419:VAL:HG23	2.05	0.57
4:GE:188:ILE:HD11	4:GE:391:LEU:HD13	1.85	0.57
4:GG:154:MET:HA	4:GG:157:LEU:HG	1.87	0.57
3:GH:84:ILE:O	3:GH:86:ARG:NH1	2.38	0.57
3:GH:302:ALA:HB1	3:GH:377:LEU:HD21	1.85	0.57
3:GH:309:ARG:HE	3:GH:426:GLN:NE2	2.00	0.57
4:GI:351:PHE:HE1	3:GJ:177:ASP:H	1.52	0.57
3:GJ:322:SER:OG	3:GJ:324:LYS:NZ	2.37	0.57
4:GK:425:LEU:HD13	4:GK:428:LEU:HD12	1.87	0.57
15:H2:17:ILE:HD12	15:H2:18:PRO:HD2	1.85	0.57
4:HC:273:ALA:HB2	4:HC:295:CYS:HB3	1.85	0.57
4:HE:271:THR:HA	4:HE:302:MET:HE1	1.87	0.57
4:HE:272:TYR:CZ	4:HE:274:PRO:HG2	2.39	0.57
4:HE:324:VAL:HG11	3:HF:219:THR:HB	1.86	0.57
3:HH:292:GLN:O	3:HH:298:ASN:ND2	2.37	0.57
4:HK:25:CYS:HA	4:HK:30:ILE:HD13	1.85	0.57
4:HK:144:GLY:N	39:HK:501:GTP:O2B	2.37	0.57
3:IB:173:PRO:O	3:IB:380:ARG:NH2	2.37	0.57
3:ID:135:LEU:O	3:ID:167:PHE:N	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ID:173:PRO:O	3:ID:380:ARG:NH2	2.38	0.57
3:IJ:2:ARG:HA	3:IJ:129:CYS:O	2.05	0.57
4:IK:105:ARG:O	4:IK:109:THR:OG1	2.22	0.57
4:IK:224:TYR:HA	4:IK:227:LEU:HB2	1.86	0.57
3:JD:74:ASP:O	38:a:42:ARG:NH2	2.38	0.57
3:JD:252:LYS:O	3:JD:256:ASN:ND2	2.37	0.57
4:JE:12:ALA:HB2	39:JE:501:GTP:H5"	1.86	0.57
3:JJ:345:ILE:HD11	4:JK:181:VAL:HG11	1.86	0.57
21:K3:147:ILE:HG12	21:K3:304:LEU:HD11	1.86	0.57
21:K3:385:ARG:HH22	4:KI:130:THR:HA	1.67	0.57
21:K4:154:LEU:HD13	21:K4:224:LEU:HD11	1.86	0.57
3:KB:28:HIS:O	3:KB:43:GLN:NE2	2.38	0.57
3:KB:84:ILE:O	3:KB:86:ARG:NH1	2.37	0.57
3:KD:209:ASP:HB3	38:a:25:ARG:HH22	1.68	0.57
3:KH:346:PRO:HG2	4:KI:394:LYS:HZ3	1.69	0.57
3:KJ:250:LEU:O	3:KJ:254:ALA:N	2.27	0.57
4:KK:274:PRO:HG3	4:KK:374:ALA:HA	1.85	0.57
22:L2:88:VAL:HB	4:LE:262:TYR:HB3	1.85	0.57
22:L3:253:ALA:H	33:W:106:PRO:HD2	1.69	0.57
4:LC:67:PHE:O	4:LC:93:ILE:N	2.38	0.57
4:LE:33:ASP:OD1	4:LE:34:GLY:N	2.36	0.57
4:LE:396:ASP:OD1	4:LE:397:LEU:N	2.37	0.57
3:LF:379:LYS:O	3:LF:382:SER:OG	2.17	0.57
3:LJ:8:GLN:HE21	3:LJ:13:GLY:C	2.12	0.57
4:LK:33:ASP:OD1	4:LK:34:GLY:N	2.38	0.57
4:ME:65:ALA:O	4:ME:91:GLN:NE2	2.37	0.57
3:MJ:379:LYS:O	3:MJ:382:SER:OG	2.18	0.57
4:MK:180:ALA:HB3	4:MK:183:GLU:HB2	1.84	0.57
4:MM:154:MET:HE1	4:MM:197:HIS:HB2	1.86	0.57
26:N4:69:ASP:OD1	26:N4:70:ASP:N	2.37	0.57
3:NB:322:SER:N	3:NB:325:GLU:OE2	2.37	0.57
3:ND:306:ARG:HH12	3:ND:340:TYR:HB3	1.69	0.57
4:NE:203:MET:N	4:NE:203:MET:SD	2.77	0.57
4:NE:396:ASP:OD1	4:NE:397:LEU:N	2.37	0.57
4:NI:285:GLN:HE22	4:NI:287:SER:HB3	1.68	0.57
3:OB:100:ASN:HB3	3:OB:103:LYS:HB2	1.87	0.57
3:OD:186:THR:HG21	3:OD:385:PHE:HD2	1.70	0.57
3:OH:13:GLY:HA2	3:OH:16:ILE:HB	1.85	0.57
3:OH:84:ILE:O	3:OH:86:ARG:NH1	2.38	0.57
3:OH:309:ARG:HE	3:OH:426:GLN:HE21	1.51	0.57
27:P:300:GLU:OE1	27:P:303:ARG:NH2	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:P2:230:LEU:HD13	29:P2:242:THR:HG22	1.86	0.57
4:PC:352:LYS:HZ2	3:PD:178:THR:HA	1.67	0.57
3:PD:250:LEU:HD13	3:PD:253:LEU:HD12	1.87	0.57
4:PE:33:ASP:OD1	4:PE:34:GLY:N	2.37	0.57
4:PK:154:MET:HE3	4:PK:194:THR:HG22	1.86	0.57
4:PM:154:MET:HE1	4:PM:197:HIS:HB2	1.86	0.57
30:Q1:1458:PHE:HB3	30:Q1:1463:LYS:HE3	1.86	0.57
4:QE:108:TYR:O	4:QE:112:LYS:NZ	2.25	0.57
3:QF:328:GLU:OE1	3:QF:332:ASN:ND2	2.37	0.57
3:QJ:325:GLU:O	3:QJ:329:GLN:HG2	2.04	0.57
4:QK:22:GLU:HA	4:QK:83:TYR:HE2	1.70	0.57
4:RI:156:ARG:HA	4:RI:159:VAL:HG22	1.87	0.57
3:RJ:173:PRO:O	3:RJ:380:ARG:NH2	2.38	0.57
4:RM:187:SER:O	4:RM:190:THR:OG1	2.23	0.57
4:SG:371:VAL:HG11	4:SG:374:ALA:HB2	1.86	0.57
4:SG:423:GLU:HA	4:SG:426:ALA:HB3	1.87	0.57
3:SH:317:PHE:HB3	3:SH:321:MET:HE3	1.85	0.57
3:SJ:81:PHE:HD1	3:SJ:84:ILE:HG13	1.68	0.57
3:TB:374:ILE:HA	3:TB:377:LEU:HD13	1.86	0.57
4:TC:6:SER:HA	4:TC:136:LEU:HB2	1.87	0.57
4:TC:108:TYR:O	4:TC:112:LYS:NZ	2.24	0.57
4:TC:161:TYR:O	4:TC:166:LYS:NZ	2.33	0.57
4:TG:89:PRO:HD2	4:UE:280:LYS:NZ	2.20	0.57
4:TI:46:ASP:OD1	4:TI:50:ASN:ND2	2.37	0.57
3:TL:217:LEU:HD11	3:TL:220:PRO:HB3	1.86	0.57
3:TN:133:PHE:HD2	3:TN:164:MET:HE1	1.68	0.57
3:TN:277:GLY:O	3:TN:280:GLN:NE2	2.37	0.57
3:UD:330:MET:HG2	3:UD:349:VAL:HG11	1.85	0.57
4:UI:127:ASP:OD1	4:UI:128:LEU:N	2.37	0.57
4:VA:371:VAL:HG11	4:VA:374:ALA:HB2	1.86	0.57
3:VB:322:SER:N	3:VB:325:GLU:OE2	2.36	0.57
4:VC:216:ASN:ND2	4:VC:275:VAL:O	2.38	0.57
3:VD:111:GLU:HG2	3:VD:112:LEU:HD12	1.86	0.57
3:VH:68:LEU:HD12	3:VH:97:ALA:HB2	1.85	0.57
4:VK:144:GLY:N	39:VK:501:GTP:O2B	2.38	0.57
33:W:269:GLU:OE1	33:W:272:ARG:NE	2.30	0.57
3:WD:323:MET:SD	3:WD:323:MET:N	2.76	0.57
3:WL:374:ILE:HG23	3:WL:377:LEU:HD22	1.85	0.57
34:XA:3:LYS:HZ2	35:XH:62:ARG:HG2	1.69	0.57
34:XC:40:ASN:OD1	34:XC:41:ASP:N	2.37	0.57
34:XD:48:GLU:OE2	34:XD:161:ARG:NE	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:XD:73:LEU:HD22	34:XD:169:ASP:HB3	1.87	0.57
36:Y:158:VAL:HA	36:Y:161:GLU:HG2	1.86	0.57
37:YG:110:LEU:HD13	37:YG:140:LEU:HD13	1.86	0.57
37:YP:16:LYS:HA	37:YP:19:GLN:HG2	1.87	0.57
37:YQ:30:GLU:O	37:YQ:33:ARG:HG2	2.04	0.57
37:YS:63:ARG:NH1	37:YS:64:ARG:HB2	2.20	0.57
37:YW:57:CYS:O	37:YW:63:ARG:NH1	2.37	0.57
3:AF:324:LYS:HE2	4:AG:222:PRO:HG2	1.85	0.57
4:AG:433:GLU:O	4:AG:437:VAL:N	2.34	0.57
4:AI:50:ASN:O	4:AI:64:ARG:NH1	2.36	0.57
3:AJ:152:ILE:HD12	3:AJ:195:ASN:HB2	1.85	0.57
3:AL:173:PRO:HB3	3:AL:380:ARG:CZ	2.35	0.57
3:AL:295:ASP:HB2	3:AL:298:ASN:HB2	1.87	0.57
5:B3:379:CYS:O	5:B3:383:THR:HG23	2.04	0.57
5:B6:245:LEU:O	5:B6:249:GLN:HG2	2.05	0.57
5:B8:365:ALA:O	5:B8:369:HIS:ND1	2.27	0.57
3:BB:191:GLN:O	3:BB:195:ASN:ND2	2.38	0.57
3:BD:141:GLY:HA3	39:BD:501:GTP:H5"	1.86	0.57
4:BG:244:PHE:HB2	4:BG:356:ASN:HD21	1.69	0.57
3:BH:41:ASP:HB3	15:H4:10:PHE:HE2	1.69	0.57
3:BJ:48:ASN:HD21	15:H5:23:PHE:HB2	1.70	0.57
3:BL:139:LEU:N	3:BL:168:SER:OG	2.37	0.57
7:C1:281:VAL:HA	7:C2:398:THR:HG21	1.86	0.57
7:C2:361:ILE:HG13	7:C2:462:LYS:HZ1	1.69	0.57
7:C7:94:TYR:HE2	7:C8:208:ILE:HA	1.69	0.57
7:C8:94:TYR:HB2	8:D4:246:LYS:NZ	2.19	0.57
4:CC:1:MET:O	4:CC:131:GLY:HA3	2.04	0.57
4:CC:316:CYS:HB3	4:CC:378:LEU:HB2	1.85	0.57
3:CF:16:ILE:HD13	3:CF:226:ASN:HD22	1.67	0.57
3:CH:284:LEU:HD23	3:CH:363:MET:HE2	1.85	0.57
4:CI:220:GLU:HG2	4:CI:221:ARG:HG2	1.86	0.57
3:CJ:132:GLY:HA3	3:CJ:163:ILE:H	1.69	0.57
4:CM:256:GLN:O	4:CM:260:VAL:HG12	2.04	0.57
8:D2:169:ARG:CZ	8:D2:173:GLU:HB2	2.34	0.57
8:D4:113:TRP:HA	8:D4:116:GLU:CD	2.29	0.57
8:D6:351:ARG:HG2	8:D7:238:VAL:HG22	1.86	0.57
8:D7:363:ARG:HH22	8:D8:228:CYS:HB2	1.69	0.57
4:DE:49:PHE:HB2	4:DE:53:PHE:HB2	1.86	0.57
4:DI:220:GLU:O	4:DI:221:ARG:NE	2.35	0.57
3:DL:12:CYS:HA	39:DL:501:GTP:N2	2.20	0.57
3:DL:48:ASN:O	3:DL:62:ARG:NH2	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ED:16:ILE:HD13	3:ED:226:ASN:HD22	1.69	0.57
3:ED:256:ASN:HB3	3:ED:350:LYS:HG3	1.87	0.57
4:EI:81:GLY:O	4:EI:84:ARG:NH1	2.37	0.57
3:EJ:372:THR:HG21	3:EJ:426:GLN:HG3	1.85	0.57
4:EK:286:LEU:HD11	4:EK:372:GLN:H	1.69	0.57
9:F:346:ARG:CD	4:IK:372:GLN:H	2.17	0.57
11:F1:389:LEU:HG	11:F1:423:ILE:HG21	1.87	0.57
4:FA:214:ARG:NH1	4:FA:215:ARG:HG3	2.20	0.57
4:FG:214:ARG:NH1	4:FG:215:ARG:HG2	2.20	0.57
11:Fl:263:ILE:HA	11:Fl:266:ASN:HD21	1.70	0.57
13:G3:331:VAL:HB	13:G3:364:LEU:HD13	1.86	0.57
14:G5:562:ILE:HG23	14:G5:566:PHE:CD2	2.39	0.57
14:G6:575:LYS:HA	14:G6:734:ARG:HH11	1.69	0.57
4:GC:108:TYR:O	4:GC:112:LYS:NZ	2.25	0.57
4:GE:21:TRP:HA	4:GE:24:TYR:HB2	1.85	0.57
4:GE:320:ARG:N	4:GE:374:ALA:O	2.32	0.57
4:GE:401:LYS:C	4:GE:402:ARG:HD3	2.29	0.57
4:GK:9:VAL:HA	4:GK:68:VAL:HG23	1.86	0.57
4:HA:301:GLN:OE1	4:HA:301:GLN:N	2.37	0.57
4:HA:396:ASP:OD1	4:HA:397:LEU:N	2.37	0.57
4:HE:33:ASP:OD1	4:HE:34:GLY:N	2.38	0.57
3:HF:189:VAL:HA	3:HF:192:LEU:HD12	1.87	0.57
4:HG:319:TYR:N	4:HG:354:GLY:O	2.35	0.57
4:HI:10:GLY:O	4:HI:14:VAL:HG13	2.03	0.57
3:HJ:3:GLU:OE2	3:HJ:127:CYS:HB2	2.05	0.57
4:IC:273:ALA:N	4:IC:377:MET:HE1	2.19	0.57
3:ID:77:ARG:O	3:ID:77:ARG:NH1	2.33	0.57
3:ID:262:ARG:HH21	3:ID:418:LEU:HD22	1.70	0.57
4:IE:33:ASP:OD1	4:IE:34:GLY:N	2.38	0.57
4:IE:168:GLU:HB2	4:IE:201:ALA:HA	1.87	0.57
4:IE:427:ALA:HA	4:IE:430:LYS:HG2	1.86	0.57
3:IF:372:THR:HB	3:IF:375:GLN:HE22	1.70	0.57
3:IF:415:MET:O	3:IF:419:VAL:N	2.30	0.57
4:IG:50:ASN:OD1	4:IG:51:THR:N	2.36	0.57
4:II:210:TYR:OH	4:II:221:ARG:NH2	2.36	0.57
3:IJ:372:THR:HG21	3:IJ:426:GLN:HG3	1.85	0.57
4:IK:6:SER:HA	4:IK:136:LEU:HB2	1.85	0.57
4:IM:1:MET:O	4:IM:131:GLY:HA3	2.04	0.57
18:J:47:THR:HG22	3:JF:357:PRO:HD2	1.86	0.57
4:JA:88:HIS:CE1	4:JA:121:ARG:HH22	2.22	0.57
3:JD:350:LYS:HE3	4:JE:180:ALA:HA	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:JE:419:SER:HA	4:JE:422:ARG:HE	1.68	0.57
4:JG:120:ASP:OD1	4:JG:123:ARG:NH2	2.38	0.57
4:JG:220:GLU:O	4:JG:221:ARG:NE	2.38	0.57
4:JI:53:PHE:O	4:JI:64:ARG:NH1	2.37	0.57
3:JJ:289:LEU:HD21	3:JJ:363:MET:HB3	1.87	0.57
4:JK:207:GLU:HB2	4:JK:304:LYS:HZ1	1.70	0.57
3:KB:286:VAL:HG21	3:KB:325:GLU:HG3	1.86	0.57
4:KG:401:LYS:C	4:KG:402:ARG:HD3	2.29	0.57
3:KL:174:LYS:HG3	3:KL:175:VAL:HG12	1.86	0.57
3:LB:306:ARG:O	3:LB:306:ARG:NE	2.38	0.57
3:LB:398:TYR:HB3	3:LB:403:MET:HB2	1.86	0.57
3:LF:251:ARG:HA	3:LF:254:ALA:HB3	1.85	0.57
4:LG:53:PHE:O	4:LG:64:ARG:NH1	2.38	0.57
4:LG:214:ARG:NH1	4:LG:215:ARG:HG3	2.19	0.57
4:ME:262:TYR:HE1	3:MF:393:ALA:HA	1.68	0.57
3:MH:375:GLN:O	3:MH:379:LYS:HB2	2.04	0.57
3:MJ:11:GLN:HE21	39:MJ:501:GTP:H3'	1.70	0.57
4:MK:1:MET:SD	4:MK:2:ARG:N	2.77	0.57
4:MK:288:VAL:HG21	4:MK:328:VAL:HG12	1.87	0.57
4:MK:392:ASP:OD1	4:MK:393:HIS:N	2.37	0.57
3:ND:296:ALA:HA	3:ND:299:MET:HE1	1.87	0.57
4:NI:206:ASN:HA	4:NI:209:ILE:HD12	1.87	0.57
4:NI:273:ALA:N	4:NI:377:MET:HE1	2.20	0.57
3:NL:19:LYS:NZ	3:NL:223:GLY:O	2.37	0.57
4:OA:32:PRO:O	4:OA:85:GLN:NE2	2.36	0.57
3:OB:117:LEU:HA	3:OB:120:VAL:HG22	1.85	0.57
4:OC:271:THR:HB	4:OC:377:MET:HB3	1.86	0.57
3:OD:419:VAL:HG12	3:OD:423:GLN:HE22	1.68	0.57
3:OF:322:SER:N	3:OF:325:GLU:OE2	2.38	0.57
29:P2:606:SER:OG	29:P2:608:ASP:OD1	2.21	0.57
3:PB:84:ILE:O	3:PB:86:ARG:NH1	2.36	0.57
30:Q3:1376:ARG:NH1	30:Q3:1379:SER:OG	2.37	0.57
3:QB:412:GLU:OE1	3:QB:416:ASN:ND2	2.38	0.57
4:QC:32:PRO:O	4:QC:85:GLN:NE2	2.37	0.57
4:RC:84:ARG:NE	37:YA:126:SER:O	2.35	0.57
4:RC:272:TYR:CZ	4:RC:274:PRO:HG2	2.40	0.57
4:RG:12:ALA:HB1	39:RG:501:GTP:C2	2.40	0.57
3:RJ:155:ILE:HA	3:RJ:158:GLU:HB2	1.85	0.57
3:SB:246:LEU:HD22	3:SB:354:CYS:HA	1.86	0.57
4:SE:273:ALA:N	4:SE:377:MET:HE1	2.19	0.57
3:SF:12:CYS:SG	3:SF:13:GLY:N	2.78	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:SJ:7:LEU:HB2	3:SJ:135:LEU:HG	1.85	0.57
3:SJ:302:ALA:HB1	3:SJ:377:LEU:HD11	1.86	0.57
4:SK:392:ASP:OD1	4:SK:393:HIS:N	2.37	0.57
32:T:266:LEU:HA	32:T:270:TRP:CD1	2.40	0.57
4:TE:317:MET:HE3	4:TE:377:MET:HE1	1.86	0.57
3:TF:11:GLN:OE1	39:TF:501:GTP:N2	2.37	0.57
33:U:232:MET:SD	3:UJ:362:LYS:NZ	2.75	0.57
3:UF:7:LEU:HD13	3:UF:64:VAL:HB	1.85	0.57
3:UH:253:LEU:HB3	3:UH:257:MET:HE1	1.87	0.57
4:UK:236:SER:O	4:UK:243:ARG:NH2	2.35	0.57
3:UL:77:ARG:O	3:UL:77:ARG:NH1	2.34	0.57
3:VD:267:MET:N	3:VD:369:GLY:O	2.34	0.57
4:VG:216:ASN:HD21	4:VG:275:VAL:HG23	1.69	0.57
3:VJ:330:MET:HE3	3:VJ:334:GLN:HB2	1.85	0.57
4:VK:223:THR:OG1	4:VK:225:THR:OG1	2.16	0.57
4:VK:245:ASP:O	4:VK:356:ASN:ND2	2.36	0.57
3:WD:306:ARG:O	3:WD:306:ARG:NE	2.35	0.57
4:WG:220:GLU:O	4:WG:221:ARG:NE	2.37	0.57
4:WG:371:VAL:HG11	4:WG:374:ALA:HB2	1.86	0.57
4:WK:32:PRO:O	4:WK:85:GLN:NE2	2.38	0.57
4:WK:127:ASP:OD1	4:WK:128:LEU:N	2.37	0.57
34:XB:74:PRO:O	34:XB:136:LEU:N	2.34	0.57
37:YR:112:SER:HA	37:YR:135:GLY:HA3	1.86	0.57
2:A1:170:ASN:HA	2:A1:173:LYS:HZ3	1.70	0.57
2:A3:330:ARG:NH2	2:A4:210:ASN:O	2.31	0.57
4:AI:392:ASP:OD1	4:AI:393:HIS:N	2.38	0.57
3:AL:174:LYS:HG3	3:AL:175:VAL:HG12	1.87	0.57
3:AL:424:GLN:HG3	35:XM:183:ILE:HB	1.87	0.57
5:B3:141:VAL:HA	5:B3:144:ILE:HD12	1.85	0.57
5:B3:355:LYS:HE3	5:B4:42:ALA:HB1	1.85	0.57
5:B5:13:ARG:HH22	5:B6:130:ARG:NH1	2.01	0.57
5:B7:60:ASN:ND2	5:B8:341:GLU:OE1	2.37	0.57
5:B8:389:LYS:HA	7:C7:337:TRP:CH2	2.39	0.57
5:B8:392:ASP:OD2	7:C7:341:ASN:ND2	2.36	0.57
3:BB:12:CYS:SG	3:BB:13:GLY:N	2.77	0.57
3:BD:269:GLY:HA2	3:BD:300:MET:HE1	1.85	0.57
4:BE:252:LEU:HA	4:BE:255:PHE:HD2	1.70	0.57
4:BG:75:VAL:HG22	4:BG:79:ARG:HH21	1.69	0.57
4:BG:108:TYR:O	4:BG:112:LYS:NZ	2.28	0.57
4:BG:172:TYR:HB2	4:BG:203:MET:HB3	1.86	0.57
4:BG:357:TYR:CE2	14:G5:209:PRO:HG2	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:165:TYR:CE1	7:Cb:155:PHE:HD1	2.22	0.57
7:C4:403:ARG:O	7:C4:406:ARG:NE	2.31	0.57
7:C6:289:ARG:HH22	8:D2:184:ARG:HB3	1.70	0.57
7:C7:474:MET:HE3	7:C7:474:MET:O	2.04	0.57
7:C9:248:ARG:HD3	7:C9:252:HIS:CE1	2.40	0.57
3:CD:5:VAL:HG22	3:CD:62:ARG:HB3	1.85	0.57
4:CG:272:TYR:CZ	4:CG:274:PRO:HG2	2.39	0.57
3:CH:304:ASP:O	3:CH:307:HIS:ND1	2.38	0.57
4:CI:113:GLU:OE1	4:CI:113:GLU:N	2.37	0.57
3:CL:412:GLU:OE1	3:CL:416:ASN:ND2	2.34	0.57
8:D5:336:ILE:HD12	8:D5:339:LEU:HD12	1.86	0.57
8:D6:372:ASN:O	8:D6:376:ARG:HG3	2.03	0.57
3:DD:214:THR:HG21	3:DD:273:LEU:HB3	1.86	0.57
3:DD:267:MET:O	3:DD:369:GLY:N	2.31	0.57
3:DD:276:ARG:HA	13:G1:285:ARG:HH21	1.70	0.57
3:DF:4:ILE:HD11	3:DF:131:GLN:HB2	1.87	0.57
4:DG:76:ASP:OD1	4:DG:79:ARG:NH1	2.38	0.57
3:DH:28:HIS:CD2	3:DH:43:GLN:HB2	2.37	0.57
3:DJ:268:PRO:HD2	3:DJ:301:ALA:HB2	1.87	0.57
4:EA:161:TYR:O	4:EA:166:LYS:NZ	2.37	0.57
4:EA:286:LEU:HD11	4:EA:373:ARG:H	1.70	0.57
4:EC:81:GLY:O	4:EC:84:ARG:NH1	2.37	0.57
4:EC:219:ILE:HD12	15:H2:299:THR:HG22	1.87	0.57
3:EH:322:SER:N	3:EH:325:GLU:OE2	2.37	0.57
4:EI:171:ILE:HD12	4:EI:204:VAL:HG13	1.86	0.57
11:F2:248:HIS:O	11:F2:251:GLU:HG3	2.04	0.57
11:F6:198:ARG:NH2	11:F6:469:CYS:SG	2.78	0.57
4:FA:139:HIS:CD2	4:FA:170:ALA:HB2	2.40	0.57
4:FA:144:GLY:N	39:FA:501:GTP:O2B	2.36	0.57
3:FH:141:GLY:HA3	39:FH:501:GTP:H5"	1.86	0.57
4:FI:53:PHE:O	4:FI:64:ARG:NH1	2.36	0.57
3:FJ:324:LYS:HE2	4:FK:222:PRO:HD2	1.87	0.57
4:FK:346:TRP:CD1	3:FL:390:ARG:HH22	2.22	0.57
3:FL:235:GLY:O	3:FL:238:THR:OG1	2.21	0.57
11:Fm:145:ARG:HG3	11:Fm:152:TRP:HE1	1.70	0.57
11:Fm:449:SER:O	11:Fm:453:HIS:ND1	2.27	0.57
13:G1:378:LYS:HG3	13:G1:379:GLN:H	1.69	0.57
14:G6:455:ALA:N	14:G6:464:SER:O	2.38	0.57
3:GB:49:VAL:HG23	3:GB:50:TYR:CD2	2.39	0.57
3:GB:250:LEU:HD13	3:GB:253:LEU:HD12	1.86	0.57
4:GC:401:LYS:C	4:GC:402:ARG:HD3	2.29	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:GE:206:ASN:HA	4:GE:209:ILE:HD12	1.87	0.57
3:GF:271:ALA:HB3	3:GF:365:ALA:H	1.70	0.57
3:GH:5:VAL:HG23	3:GH:130:LEU:HD21	1.86	0.57
4:GI:68:VAL:HA	4:GI:93:ILE:HB	1.87	0.57
4:GI:89:PRO:HD2	4:HI:280:LYS:HZ2	1.69	0.57
4:GK:67:PHE:O	4:GK:93:ILE:N	2.38	0.57
3:HF:336:LYS:HG3	23:M:132:VAL:HA	1.87	0.57
4:HG:321:GLY:N	4:HG:356:ASN:O	2.23	0.57
3:HH:269:GLY:HA2	3:HH:300:MET:HE1	1.85	0.57
3:HJ:322:SER:N	3:HJ:325:GLU:OE2	2.35	0.57
3:HL:151:LEU:HD22	3:HL:154:LYS:HZ1	1.69	0.57
3:IJ:6:HIS:HD2	3:IJ:134:GLN:HG2	1.69	0.57
4:IK:273:ALA:N	4:IK:377:MET:HE1	2.19	0.57
3:IL:245:GLN:HE22	4:IM:15:GLN:HE22	1.52	0.57
4:IM:216:ASN:HB2	4:IM:276:ILE:HD12	1.87	0.57
4:IM:271:THR:O	4:IM:377:MET:N	2.25	0.57
19:J2:47:ILE:HG21	19:J2:102:LEU:HD22	1.85	0.57
4:JC:208:ALA:H	4:JC:304:LYS:NZ	2.01	0.57
4:JG:320:ARG:HG2	4:JG:358:GLN:O	2.05	0.57
4:JI:295:CYS:HB2	4:JI:377:MET:HE3	1.86	0.57
21:K2:333:CYS:HA	21:K2:464:ARG:HH22	1.70	0.57
21:K3:174:ILE:HD11	21:K3:464:ARG:HA	1.85	0.57
3:KD:194:GLU:OE1	3:KD:195:ASN:ND2	2.38	0.57
4:KG:371:VAL:HG11	4:KG:374:ALA:HB2	1.86	0.57
3:KJ:305:PRO:HB2	3:KJ:310:TYR:HE1	1.70	0.57
22:L3:88:VAL:HG13	4:LI:262:TYR:HB3	1.86	0.57
4:LC:273:ALA:N	4:LC:377:MET:HE1	2.20	0.57
3:LF:58:LYS:HE3	3:MF:281:TYR:HD1	1.69	0.57
3:LH:189:VAL:HA	3:LH:192:LEU:HD12	1.87	0.57
4:LI:220:GLU:O	4:LI:221:ARG:NE	2.38	0.57
3:LJ:3:GLU:OE2	3:LJ:127:CYS:HB2	2.05	0.57
3:LL:254:ALA:O	3:LL:258:VAL:N	2.38	0.57
4:ME:1:MET:N	4:ME:130:THR:OG1	2.37	0.57
4:ME:214:ARG:NH1	4:ME:215:ARG:HG3	2.20	0.57
3:MF:317:PHE:O	3:MF:354:CYS:N	2.29	0.57
4:MG:104:ALA:HA	4:MG:107:HIS:HB3	1.86	0.57
4:MG:234:ILE:HD11	4:MG:272:TYR:HB2	1.86	0.57
4:MG:390:ARG:HA	4:MG:393:HIS:CE1	2.39	0.57
3:MH:347:ASN:HB3	4:MI:178:SER:HB3	1.86	0.57
3:MJ:392:LYS:HB2	3:MJ:395:LEU:HD13	1.85	0.57
4:MK:274:PRO:HG3	4:MK:374:ALA:HA	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MM:49:PHE:O	4:MM:53:PHE:N	2.37	0.57
4:MM:216:ASN:ND2	4:MM:275:VAL:O	2.38	0.57
4:NA:388:TRP:HB3	4:NA:425:LEU:HD11	1.85	0.57
4:NE:9:VAL:HG11	4:NE:150:ALA:HB2	1.85	0.57
3:NF:12:CYS:HA	39:NF:501:GTP:N2	2.20	0.57
3:NL:170:VAL:N	3:NL:202:ILE:O	2.31	0.57
3:OB:33:THR:O	3:OB:58:LYS:NZ	2.38	0.57
3:OD:139:LEU:HD21	3:OD:170:VAL:HG22	1.85	0.57
3:OF:56:GLY:HA2	37:YK:59:ASN:HA	1.84	0.57
4:OG:107:HIS:HA	4:OG:152:LEU:HD23	1.86	0.57
3:OJ:12:CYS:HA	39:OJ:501:GTP:HN22	1.68	0.57
3:OL:117:LEU:HD11	3:OL:154:LYS:HD2	1.86	0.57
29:P2:33:HIS:NE2	29:P2:76:GLY:O	2.33	0.57
3:PD:345:ILE:HD12	3:PD:346:PRO:HD2	1.86	0.57
4:PE:188:ILE:HG12	4:PE:421:ALA:HB1	1.86	0.57
39:PF:501:GTP:O3G	39:PF:501:GTP:O3'	2.20	0.57
3:PH:322:SER:N	3:PH:325:GLU:OE2	2.37	0.57
4:PM:15:GLN:OE1	39:PM:501:GTP:N1	2.37	0.57
3:QB:290:THR:HG21	3:QB:329:GLN:HB3	1.86	0.57
4:QC:80:THR:HA	4:QC:84:ARG:NH1	2.16	0.57
3:RD:380:ARG:O	3:RD:384:GLN:HG2	2.04	0.57
3:RD:406:MET:O	3:RD:409:THR:OG1	2.19	0.57
4:RE:49:PHE:O	4:RE:53:PHE:N	2.37	0.57
3:RH:423:GLN:HA	3:RH:426:GLN:HE21	1.70	0.57
3:RL:38:GLY:O	37:YT:20:GLN:NE2	2.37	0.57
4:RM:214:ARG:NH1	4:RM:215:ARG:HG3	2.19	0.57
3:SF:344:TRP:HD1	4:SG:401:LYS:HD2	1.68	0.57
4:SI:68:VAL:HG12	4:SI:93:ILE:HB	1.87	0.57
4:SM:229:ARG:HE	4:SM:368:LEU:HD22	1.69	0.57
32:T:299:GLN:HB3	32:T:302:LEU:HD21	1.86	0.57
3:TH:309:ARG:HH22	3:TH:344:TRP:HZ3	1.52	0.57
4:TK:115:VAL:HG21	4:TK:156:ARG:HE	1.68	0.57
3:TN:28:HIS:CD2	3:TN:43:GLN:HB2	2.40	0.57
3:TN:182:PRO:HB2	3:TN:388:MET:HE1	1.86	0.57
4:UA:285:GLN:HE22	4:UA:287:SER:HB3	1.70	0.57
3:UB:380:ARG:O	3:UB:384:GLN:HG2	2.04	0.57
3:UB:385:PHE:HA	3:UB:388:MET:HE2	1.86	0.57
4:UC:316:CYS:HB3	4:UC:378:LEU:HB3	1.86	0.57
3:UF:15:GLN:HB2	3:UF:222:TYR:HE2	1.68	0.57
3:UL:214:THR:HG21	3:UL:273:LEU:HB3	1.85	0.57
3:VF:156:ARG:NH1	3:VF:195:ASN:O	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VJ:374:ILE:HA	3:VJ:377:LEU:HD13	1.86	0.57
3:VL:392:LYS:HB2	3:VL:395:LEU:HD13	1.86	0.57
33:W:235:ASP:OD1	33:W:236:ARG:N	2.37	0.57
3:WB:252:LYS:O	3:WB:256:ASN:ND2	2.38	0.57
4:WC:396:ASP:OD1	4:WC:397:LEU:N	2.37	0.57
4:WG:205:ASP:OD2	4:WG:304:LYS:NZ	2.36	0.57
3:WL:39:ASP:OD1	3:WL:43:GLN:NE2	2.37	0.57
3:WL:216:LYS:O	3:WL:276:ARG:NH2	2.37	0.57
37:YE:18:PHE:O	37:YE:22:GLN:N	2.37	0.57
37:YM:128:ASP:HA	37:YM:131:ARG:HB2	1.87	0.57
37:YW:6:GLU:OE1	37:YW:9:ARG:NH2	2.37	0.57
2:A3:334:GLN:O	2:A3:338:ILE:HG12	2.04	0.57
4:AC:279:GLU:HA	4:AC:282:TYR:CD2	2.39	0.57
3:AD:84:ILE:O	3:AD:86:ARG:NH1	2.37	0.57
3:AD:111:GLU:HG2	3:AD:112:LEU:HD12	1.86	0.57
3:AL:151:LEU:HD22	3:AL:154:LYS:HZ1	1.69	0.57
4:AM:33:ASP:OD1	4:AM:34:GLY:N	2.37	0.57
4:AM:308:ARG:NH2	26:N4:74:ARG:O	2.37	0.57
1:B:450:ARG:HA	1:B:453:LYS:HZ3	1.70	0.57
5:B3:281:TRP:NE1	5:B3:285:ASN:HD21	2.03	0.57
5:B8:92:LEU:HD21	5:B8:236:SER:HB2	1.86	0.57
4:BK:287:SER:N	4:BK:290:GLU:OE2	2.37	0.57
3:BL:2:ARG:HB3	3:BL:131:GLN:NE2	2.19	0.57
4:BM:207:GLU:HB2	4:BM:304:LYS:HZ1	1.70	0.57
7:C2:275:ARG:NH1	7:C2:276:ASN:O	2.36	0.57
7:C3:164:LEU:HD22	7:C3:258:LEU:HD13	1.86	0.57
3:CB:311:LEU:HD23	3:CB:342:VAL:HG11	1.87	0.57
4:CM:319:TYR:HB2	4:CM:355:ILE:HD13	1.87	0.57
7:Cb:379:ILE:O	7:Cb:382:ILE:HG22	2.04	0.57
8:D8:220:GLU:O	8:D8:224:ILE:HG13	2.04	0.57
8:D8:237:GLN:HA	8:D8:239:GLN:HE22	1.69	0.57
8:D9:255:GLU:O	8:D9:259:LYS:HG2	2.04	0.57
4:DC:33:ASP:OD1	4:DC:34:GLY:N	2.38	0.57
3:DF:263:LEU:HD12	3:DF:370:ASN:HD21	1.70	0.57
4:DG:423:GLU:HA	4:DG:426:ALA:HB3	1.87	0.57
10:E2:130:SER:O	10:E2:133:ARG:NH1	2.37	0.57
4:EA:287:SER:OG	4:EA:290:GLU:OE1	2.22	0.57
3:ED:52:ASN:OD1	3:ED:62:ARG:NH1	2.36	0.57
3:EF:60:VAL:HG23	3:EF:86:ARG:HH11	1.69	0.57
4:EG:371:VAL:HG11	4:EG:374:ALA:HB2	1.86	0.57
3:EJ:385:PHE:HA	3:EJ:388:MET:HE2	1.84	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EK:71:GLU:OE2	4:EK:73:THR:OG1	2.13	0.57
11:F2:327:THR:O	11:F2:331:GLN:NE2	2.34	0.57
11:F6:208:HIS:ND1	11:F6:212:GLU:OE2	2.38	0.57
11:F7:468:LYS:HB3	11:F7:472:MET:HE1	1.84	0.57
4:FA:392:ASP:OD1	4:FA:393:HIS:N	2.37	0.57
4:FC:206:ASN:HA	4:FC:209:ILE:HD12	1.87	0.57
3:FF:269:GLY:N	3:FF:367:PHE:O	2.38	0.57
4:FG:125:LEU:HD13	4:FG:128:LEU:HD21	1.85	0.57
3:FJ:285:THR:O	3:FJ:288:GLU:HG3	2.05	0.57
3:FL:415:MET:O	3:FL:419:VAL:N	2.33	0.57
11:Ff:201:ARG:NH2	11:Ff:212:GLU:OE2	2.37	0.57
11:Fi:375:ILE:HG12	11:Fi:437:THR:HB	1.86	0.57
11:Fj:158:TYR:CE2	12:G:267:LYS:HG3	2.40	0.57
11:Fl:210:ASN:HD22	11:Fl:342:ALA:HB2	1.69	0.57
11:Fl:447:THR:O	11:Fl:450:ARG:HG2	2.05	0.57
13:G2:488:SER:HA	13:G2:523:TYR:HD1	1.70	0.57
14:G4:383:LEU:O	14:G4:385:LYS:NZ	2.38	0.57
14:G4:455:ALA:HB3	14:G4:464:SER:HB2	1.87	0.57
14:G5:51:GLN:HG2	14:G5:53:ILE:HD11	1.85	0.57
14:G6:454:ILE:HB	14:G6:463:ILE:HD11	1.85	0.57
14:G6:542:TYR:HB3	14:G6:597:GLN:CD	2.30	0.57
3:GF:389:PHE:HZ	3:GF:405:GLU:HG2	1.69	0.57
3:GJ:284:LEU:HD12	3:GJ:363:MET:HB2	1.87	0.57
3:GL:322:SER:N	3:GL:325:GLU:OE2	2.36	0.57
15:H1:218:ILE:O	15:H1:218:ILE:HG13	2.04	0.57
3:HF:306:ARG:NE	3:HF:306:ARG:O	2.37	0.57
4:HG:68:VAL:HG12	4:HG:93:ILE:HB	1.87	0.57
3:HJ:323:MET:SD	4:HK:210:TYR:OH	2.61	0.57
4:HK:67:PHE:HB2	4:HK:92:LEU:HD13	1.87	0.57
16:I:102:ASN:HB3	4:JC:364:PRO:HB3	1.87	0.57
3:IB:290:THR:HG21	3:IB:329:GLN:HB3	1.87	0.57
4:IE:89:PRO:HD3	3:JD:281:TYR:CE2	2.40	0.57
3:IH:11:GLN:HE21	39:IH:501:GTP:H3'	1.69	0.57
3:IH:252:LYS:NZ	4:II:101:ASN:OD1	2.38	0.57
3:IH:309:ARG:HH21	3:IH:426:GLN:HG2	1.70	0.57
3:IL:28:HIS:HD2	3:IL:43:GLN:HB2	1.69	0.57
4:JA:68:VAL:HG12	4:JA:93:ILE:HB	1.85	0.57
4:JA:208:ALA:H	4:JA:304:LYS:HZ1	1.51	0.57
4:JA:406:HIS:HA	4:JA:409:VAL:HG22	1.87	0.57
4:JC:401:LYS:C	4:JC:402:ARG:HD3	2.29	0.57
4:JE:88:HIS:CE1	4:JE:121:ARG:HH22	2.23	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JH:249:ASP:O	3:JH:252:LYS:HB2	2.05	0.57
3:JJ:309:ARG:HE	3:JJ:426:GLN:HE21	1.53	0.57
4:JK:401:LYS:C	4:JK:402:ARG:HD3	2.29	0.57
20:K:257:SER:HB2	4:KG:243:ARG:HH12	1.68	0.57
3:KD:216:LYS:O	3:KD:276:ARG:NH2	2.36	0.57
4:KE:423:GLU:HA	4:KE:426:ALA:HB3	1.86	0.57
3:KH:117:LEU:HD11	3:KH:154:LYS:HD2	1.86	0.57
22:L2:249:ILE:HG22	22:L2:251:TYR:H	1.68	0.57
22:L3:113:VAL:HG11	4:LK:405:VAL:HG23	1.87	0.57
3:LB:33:THR:O	3:LB:58:LYS:NZ	2.37	0.57
3:LB:269:GLY:O	3:LB:367:PHE:N	2.36	0.57
4:LI:76:ASP:HA	4:LI:79:ARG:HG2	1.87	0.57
3:LJ:139:LEU:N	3:LJ:168:SER:OG	2.38	0.57
4:LK:346:TRP:O	3:LL:388:MET:HE1	2.04	0.57
3:LL:6:HIS:HE1	3:LL:8:GLN:HB3	1.70	0.57
4:ME:273:ALA:N	4:ME:377:MET:HE1	2.19	0.57
3:MF:173:PRO:O	3:MF:380:ARG:NH2	2.37	0.57
4:MG:206:ASN:HA	4:MG:209:ILE:HD12	1.86	0.57
4:MK:205:ASP:OD2	4:MK:304:LYS:NZ	2.29	0.57
3:ML:404:ASP:OD1	3:ML:406:MET:HG3	2.04	0.57
4:MM:5:ILE:HD13	4:MM:64:ARG:HB3	1.87	0.57
26:N4:76:ALA:HA	26:N4:96:GLN:HE22	1.70	0.57
3:NB:347:ASN:HB3	4:NC:178:SER:HB3	1.87	0.57
3:ND:246:LEU:HB2	3:ND:352:ALA:HB1	1.86	0.57
3:ND:322:SER:N	3:ND:325:GLU:OE2	2.35	0.57
4:NG:125:LEU:HD13	4:NG:128:LEU:HD21	1.86	0.57
4:NG:273:ALA:N	4:NG:377:MET:HE1	2.20	0.57
3:NH:12:CYS:HA	39:NH:501:GTP:N2	2.19	0.57
3:NH:324:LYS:HD2	4:NI:221:ARG:HA	1.85	0.57
3:OB:324:LYS:HD2	4:OC:221:ARG:HA	1.85	0.57
4:OC:46:ASP:OD1	4:OC:50:ASN:ND2	2.36	0.57
4:OC:102:ASN:ND2	4:OC:411:GLU:OE2	2.36	0.57
3:OD:321:MET:SD	3:OD:363:MET:HG3	2.45	0.57
3:OF:345:ILE:HD11	4:OG:181:VAL:HG11	1.86	0.57
3:OL:211:CYS:HA	3:OL:215:LEU:HB2	1.86	0.57
29:P1:508:VAL:HG23	29:P1:519:THR:HG22	1.87	0.57
29:P1:593:MET:O	29:P1:594:ARG:NH1	2.36	0.57
4:PE:68:VAL:HG12	4:PE:93:ILE:HB	1.86	0.57
4:PE:273:ALA:HB2	4:PE:295:CYS:HB3	1.85	0.57
3:PF:398:TYR:HB3	3:PF:403:MET:HB2	1.87	0.57
4:PK:6:SER:HA	4:PK:136:LEU:HB2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:Q1:1387:ASP:HB2	30:Q1:1392:GLY:HA2	1.87	0.57
4:QK:12:ALA:O	39:QK:501:GTP:N2	2.38	0.57
4:QM:185:TYR:CZ	4:QM:398:MET:HE1	2.39	0.57
3:RF:111:GLU:HG2	3:RF:112:LEU:HD12	1.87	0.57
4:RG:208:ALA:N	4:RG:304:LYS:HZ1	1.99	0.57
4:SC:144:GLY:N	39:SC:501:GTP:O2B	2.36	0.57
3:SH:250:LEU:O	3:SH:254:ALA:N	2.30	0.57
4:SK:6:SER:HA	4:SK:136:LEU:HB2	1.87	0.57
4:SK:9:VAL:HG11	4:SK:150:ALA:HB2	1.86	0.57
4:SM:184:PRO:HG2	4:SM:398:MET:HE1	1.87	0.57
3:TD:74:ASP:HA	3:TD:77:ARG:HG2	1.87	0.57
3:TF:178:THR:HB	3:TF:181:GLU:HB2	1.87	0.57
3:TF:392:LYS:HB2	3:TF:395:LEU:HD13	1.87	0.57
3:TH:84:ILE:O	3:TH:86:ARG:NH1	2.37	0.57
3:TL:412:GLU:OE1	3:TL:416:ASN:ND2	2.38	0.57
3:UB:52:ASN:OD1	3:UB:62:ARG:NH1	2.36	0.57
4:UC:371:VAL:HG11	4:UC:374:ALA:HB2	1.87	0.57
3:UD:13:GLY:HA2	3:UD:16:ILE:HB	1.87	0.57
3:UH:380:ARG:O	3:UH:384:GLN:HG2	2.05	0.57
4:VA:76:ASP:OD1	4:VA:79:ARG:NH2	2.37	0.57
3:VB:111:GLU:HG2	3:VB:112:LEU:HD12	1.87	0.57
3:VB:139:LEU:HD21	3:VB:170:VAL:HG22	1.85	0.57
3:VD:77:ARG:NH1	3:VD:77:ARG:O	2.30	0.57
3:VD:375:GLN:HA	3:VD:378:PHE:CZ	2.39	0.57
4:VE:216:ASN:ND2	4:VE:275:VAL:O	2.38	0.57
3:VF:247:ASN:HB2	3:VF:252:LYS:HG2	1.86	0.57
4:VG:172:TYR:HD1	4:VG:203:MET:HG2	1.69	0.57
4:VG:390:ARG:HA	4:VG:393:HIS:CD2	2.39	0.57
4:VI:180:ALA:HB1	4:VI:182:VAL:HG12	1.85	0.57
3:VJ:322:SER:OG	3:VJ:324:LYS:NZ	2.38	0.57
4:VK:9:VAL:HA	4:VK:68:VAL:HG23	1.87	0.57
3:VL:322:SER:N	3:VL:325:GLU:OE2	2.37	0.57
3:WB:345:ILE:HD11	4:WC:181:VAL:HG11	1.87	0.57
4:WE:260:VAL:HG23	4:WE:265:ILE:O	2.05	0.57
4:WK:264:ARG:O	4:WK:266:HIS:ND1	2.35	0.57
4:WK:388:TRP:HB3	4:WK:425:LEU:HD11	1.85	0.57
35:XI:72:ASP:OD1	35:XI:77:LYS:NZ	2.30	0.57
35:XK:178:LEU:HD21	35:XK:228:ILE:HG12	1.87	0.57
37:YJ:26:ILE:HD12	37:YJ:134:TYR:HE1	1.68	0.57
37:YK:26:ILE:HD13	37:YK:29:LEU:HD12	1.86	0.57
37:YK:141:ILE:HA	37:YK:144:VAL:HB	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:YL:30:GLU:OE1	37:YL:33:ARG:NH2	2.38	0.57
37:YN:41:ARG:HH12	37:YN:45:SER:H	1.53	0.57
37:YS:11:ILE:HD11	37:YS:72:ILE:HG23	1.86	0.57
37:YV:106:GLN:N	37:YV:106:GLN:OE1	2.38	0.57
36:Z:250:LYS:O	36:Z:254:LYS:N	2.33	0.57
36:Z:295:ILE:O	36:Z:299:LYS:N	2.38	0.57
36:Z:388:GLN:NE2	36:Z:392:GLU:OE1	2.32	0.57
36:Z:392:GLU:HA	36:Z:395:GLU:HB2	1.87	0.57
2:A2:31:ARG:HB2	5:B4:55:TRP:HH2	1.70	0.57
2:A4:61:LYS:HZ3	5:B1:281:TRP:CD1	2.22	0.57
4:AC:88:HIS:HA	4:BC:283:HIS:HE1	1.69	0.57
3:AF:372:THR:HG21	3:AF:426:GLN:HG3	1.86	0.57
3:AH:198:GLU:HA	3:AH:266:PHE:CE2	2.39	0.57
3:AL:392:LYS:HB2	3:AL:395:LEU:HD13	1.85	0.57
4:AM:30:ILE:HA	4:AM:36:MET:HE1	1.86	0.57
4:AM:206:ASN:HA	4:AM:209:ILE:HD12	1.87	0.57
5:B6:92:LEU:HD11	5:B6:236:SER:HB2	1.87	0.57
5:B7:5:SER:OG	8:D7:409:ARG:NH2	2.37	0.57
3:BB:132:GLY:HA2	3:BB:162:ARG:HB3	1.85	0.57
3:BB:257:MET:HG3	3:BB:258:VAL:HG23	1.86	0.57
4:BE:269:LEU:N	4:BE:379:SER:O	2.29	0.57
3:BH:2:ARG:HA	3:BH:129:CYS:O	2.05	0.57
3:BH:174:LYS:HG3	3:BH:175:VAL:HG12	1.87	0.57
4:BI:1:MET:SD	4:BI:2:ARG:N	2.77	0.57
4:BK:264:ARG:O	4:BK:266:HIS:ND1	2.38	0.57
7:C3:180:ARG:NH2	7:C3:325:THR:OG1	2.33	0.57
7:C3:202:ARG:O	7:C3:205:ARG:NH1	2.38	0.57
7:C4:164:LEU:HA	7:C4:167:MET:SD	2.45	0.57
7:C7:179:ARG:O	7:C7:183:ARG:HG2	2.04	0.57
7:C7:322:ARG:O	7:C7:325:THR:OG1	2.15	0.57
7:C7:415:MET:HA	10:E1:109:TYR:OH	2.05	0.57
3:CB:47:ILE:HG13	3:CB:51:TYR:HB2	1.85	0.57
3:CD:73:MET:HA	3:CD:76:VAL:HG22	1.86	0.57
3:CF:132:GLY:HA2	3:CF:162:ARG:HB3	1.86	0.57
4:CG:105:ARG:O	4:CG:109:THR:OG1	2.20	0.57
4:CK:161:TYR:O	4:CK:166:LYS:NZ	2.32	0.57
3:CL:375:GLN:HA	3:CL:378:PHE:CZ	2.39	0.57
8:D9:138:LEU:HD11	8:D9:282:ILE:HD12	1.87	0.57
8:D9:324:LYS:HE2	8:Da:71:ARG:NH1	2.20	0.57
4:DA:107:HIS:CD2	4:DA:152:LEU:HB2	2.40	0.57
4:DI:1:MET:SD	4:DI:2:ARG:N	2.78	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:E:778:PHE:HB3	9:E:783:VAL:HG23	1.87	0.57
3:EB:13:GLY:HA2	3:EB:16:ILE:HB	1.86	0.57
3:EB:61:PRO:HD3	3:EB:84:ILE:HG13	1.86	0.57
3:ED:77:ARG:O	3:ED:77:ARG:NH1	2.34	0.57
3:ED:217:LEU:HD11	3:ED:220:PRO:HB3	1.86	0.57
3:EH:170:VAL:N	3:EH:202:ILE:O	2.29	0.57
11:F2:93:ARG:NH1	11:F2:97:ARG:HB3	2.19	0.57
11:F2:208:HIS:HB2	11:F3:87:PHE:CZ	2.40	0.57
11:F7:375:ILE:HA	11:F7:378:LEU:HD13	1.87	0.57
4:FA:36:MET:HE3	4:FA:61:HIS:CE1	2.39	0.57
4:FA:404:PHE:HB3	4:FA:407:TRP:HD1	1.70	0.57
4:FI:10:GLY:O	4:FI:13:GLY:N	2.38	0.57
11:Fb:261:GLN:NE2	11:Fb:265:GLU:OE1	2.36	0.57
11:Fb:291:SER:OG	11:Fb:295:THR:HB	2.05	0.57
11:Fb:399:ARG:HE	11:Fb:402:ARG:HH22	1.51	0.57
13:G1:404:ALA:O	13:G1:406:ARG:NH1	2.37	0.57
13:G3:159:MET:SD	13:G3:159:MET:N	2.78	0.57
13:G3:332:GLY:H	13:G3:344:ILE:HG23	1.69	0.57
14:G5:25:HIS:CE1	14:G5:35:LEU:HD11	2.40	0.57
14:G5:392:PRO:HA	14:G5:496:SER:HA	1.86	0.57
14:G6:413:PRO:O	14:G6:415:ARG:NH1	2.37	0.57
3:GF:299:MET:SD	3:GF:301:ALA:N	2.78	0.57
4:GI:272:TYR:CZ	4:GI:274:PRO:HG2	2.40	0.57
3:GJ:412:GLU:OE1	3:GJ:416:ASN:ND2	2.37	0.57
4:GK:9:VAL:HG11	4:GK:150:ALA:HB2	1.86	0.57
4:HA:168:GLU:HB2	4:HA:201:ALA:HA	1.87	0.57
3:HB:286:VAL:HG21	3:HB:325:GLU:HG3	1.85	0.57
4:HC:287:SER:OG	4:HC:290:GLU:OE1	2.21	0.57
4:HE:9:VAL:HG11	4:HE:150:ALA:HB2	1.86	0.57
3:HH:172:SER:HB3	3:HH:175:VAL:O	2.05	0.57
4:HI:220:GLU:O	4:HI:221:ARG:NE	2.38	0.57
3:HJ:132:GLY:HA3	3:HJ:163:ILE:H	1.69	0.57
4:IC:260:VAL:HG23	4:IC:265:ILE:O	2.04	0.57
3:IF:114:ASP:OD1	3:IF:115:SER:N	2.38	0.57
3:IF:174:LYS:HG3	3:IF:175:VAL:HG12	1.87	0.57
4:IG:135:PHE:HD2	4:IG:157:LEU:HD21	1.68	0.57
4:II:53:PHE:O	4:II:64:ARG:NH1	2.37	0.57
4:IK:269:LEU:N	4:IK:379:SER:O	2.35	0.57
3:JB:194:GLU:OE1	3:JB:195:ASN:ND2	2.37	0.57
3:JB:316:VAL:HG22	3:JB:352:ALA:HB3	1.87	0.57
3:JH:317:PHE:O	3:JH:354:CYS:N	2.31	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:JI:52:PHE:HZ	4:JI:239:THR:HB	1.68	0.57
3:JL:250:LEU:HD13	3:JL:253:LEU:HD12	1.87	0.57
21:K3:239:GLN:HA	21:K3:242:LEU:HB2	1.85	0.57
4:KC:33:ASP:OD1	4:KC:34:GLY:N	2.37	0.57
4:KC:273:ALA:HB2	4:KC:295:CYS:HB3	1.86	0.57
3:KD:375:GLN:HA	3:KD:378:PHE:CE1	2.40	0.57
3:KD:424:GLN:HE22	31:R1:121:ILE:HD12	1.67	0.57
3:KF:65:LEU:HD21	3:KF:73:MET:HG2	1.86	0.57
22:L1:110:ALA:HB2	4:LC:402:ARG:NE	2.19	0.57
4:LA:401:LYS:C	4:LA:402:ARG:HD3	2.29	0.57
3:LD:391:ARG:HD3	31:R1:252:PRO:HD3	1.85	0.57
4:LE:68:VAL:HG12	4:LE:93:ILE:HB	1.86	0.57
4:LE:201:ALA:H	4:LE:266:HIS:HD2	1.52	0.57
3:LF:375:GLN:HA	3:LF:378:PHE:CZ	2.39	0.57
3:LF:392:LYS:HB2	3:LF:395:LEU:HD13	1.85	0.57
4:LG:113:GLU:OE1	4:LG:113:GLU:N	2.36	0.57
4:LG:185:TYR:OH	4:LG:403:ALA:O	2.09	0.57
4:LI:256:GLN:O	4:LI:260:VAL:HG12	2.05	0.57
3:LL:211:CYS:HA	3:LL:215:LEU:HB3	1.87	0.57
3:LL:218:THR:OG1	3:LL:219:THR:N	2.36	0.57
3:MD:186:THR:HA	3:MD:189:VAL:HG22	1.85	0.57
4:ME:398:MET:O	4:ME:402:ARG:N	2.37	0.57
3:ML:323:MET:SD	3:ML:324:LYS:NZ	2.73	0.57
4:MM:401:LYS:C	4:MM:402:ARG:HD3	2.29	0.57
26:N3:166:PHE:HE2	4:WI:220:GLU:HB3	1.68	0.57
3:ND:84:ILE:O	3:ND:86:ARG:NH1	2.37	0.57
28:O3:42:ILE:HD12	28:O3:53:VAL:HG21	1.85	0.57
4:OA:306:ASP:OD2	4:OA:309:HIS:ND1	2.38	0.57
3:OD:114:ASP:OD1	3:OD:115:SER:N	2.37	0.57
4:OK:67:PHE:HB2	4:OK:92:LEU:HD13	1.87	0.57
29:P1:17:GLN:HB3	29:P1:613:ARG:HH21	1.70	0.57
29:P1:416:HIS:CD2	29:P1:420:VAL:HG22	2.40	0.57
3:PD:282:ARG:NH2	3:PD:292:GLN:OE1	2.26	0.57
4:PG:401:LYS:C	4:PG:402:ARG:HD3	2.29	0.57
4:PM:429:GLU:O	4:PM:432:TYR:N	2.38	0.57
4:QE:338:LYS:HZ2	4:QE:340:THR:H	1.53	0.57
3:QH:142:GLY:N	39:QH:501:GTP:O3B	2.36	0.57
3:QH:302:ALA:HB1	3:QH:377:LEU:HD11	1.87	0.57
3:QL:250:LEU:HD13	3:QL:253:LEU:HD12	1.85	0.57
27:R:342:ASN:OD1	27:R:343:LEU:N	2.37	0.57
31:R1:127:ALA:O	31:R1:131:GLY:N	2.32	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RB:268:PRO:HD2	3:RB:301:ALA:HB2	1.86	0.57
4:RI:1:MET:SD	4:RI:2:ARG:N	2.77	0.57
4:RI:311:LYS:HE3	4:RI:344:VAL:HA	1.87	0.57
4:RK:88:HIS:HB3	4:RK:91:GLN:HB2	1.85	0.57
3:RL:174:LYS:HG3	3:RL:175:VAL:HG12	1.87	0.57
32:S:396:THR:H	32:S:399:ILE:HB	1.70	0.57
3:SF:419:VAL:O	3:SF:423:GLN:NE2	2.38	0.57
3:SH:2:ARG:HB3	3:SH:131:GLN:NE2	2.20	0.57
3:SH:13:GLY:HA2	3:SH:16:ILE:HB	1.87	0.57
3:SH:273:LEU:H	3:SH:292:GLN:HE22	1.52	0.57
3:SJ:178:THR:HB	3:SJ:181:GLU:HB2	1.87	0.57
3:SJ:250:LEU:HD13	3:SJ:253:LEU:HD12	1.86	0.57
3:SJ:331:LEU:HD21	4:SK:177:VAL:HG22	1.87	0.57
4:TC:34:GLY:HA2	4:TC:86:LEU:HD21	1.87	0.57
3:TD:166:THR:OG1	3:TD:198:GLU:O	2.20	0.57
4:TK:266:HIS:C	4:TK:268:PRO:HD3	2.28	0.57
4:TM:89:PRO:HD2	4:UK:280:LYS:NZ	2.19	0.57
3:TN:111:GLU:HG2	3:TN:112:LEU:HD12	1.87	0.57
3:UB:114:ASP:OD1	3:UB:115:SER:N	2.37	0.57
4:UE:396:ASP:OD1	4:UE:397:LEU:N	2.37	0.57
4:UG:287:SER:OG	4:UG:290:GLU:OE1	2.22	0.57
4:VA:1:MET:O	4:VA:131:GLY:HA3	2.05	0.57
3:VD:139:LEU:HD21	3:VD:170:VAL:HG22	1.87	0.57
4:VI:54:SER:N	4:VI:62:VAL:O	2.38	0.57
4:VI:187:SER:O	4:VI:190:THR:OG1	2.20	0.57
4:VK:279:GLU:HB3	33:X:424:ARG:HH22	1.68	0.57
3:VL:173:PRO:O	3:VL:380:ARG:NH2	2.37	0.57
3:VL:246:LEU:HB2	3:VL:352:ALA:HB1	1.86	0.57
3:VL:250:LEU:HD13	3:VL:253:LEU:HD12	1.86	0.57
4:WE:33:ASP:OD1	4:WE:34:GLY:N	2.37	0.57
4:WE:256:GLN:O	4:WE:260:VAL:HG12	2.04	0.57
3:WJ:410:GLU:HA	3:WJ:413:SER:HB3	1.86	0.57
4:WK:429:GLU:O	4:WK:432:TYR:N	2.38	0.57
37:YT:98:GLU:HA	37:YT:101:LYS:HD2	1.86	0.57
37:YW:67:ILE:HA	37:YW:70:MET:HE1	1.85	0.57
38:a:49:LEU:HA	38:a:52:LYS:HZ2	1.70	0.57
38:a:81:GLU:HA	38:a:84:GLN:HB3	1.87	0.57
2:A1:282:LEU:HB2	2:A1:372:LEU:HD22	1.86	0.57
2:A2:114:LYS:NZ	2:A2:117:GLU:OE1	2.37	0.57
2:A3:19:ALA:O	2:A3:23:GLN:HG2	2.05	0.57
2:A4:160:GLN:HG2	2:A4:238:LEU:HD12	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AC:392:ASP:OD1	4:AC:393:HIS:N	2.37	0.57
3:AH:4:ILE:HD11	3:AH:131:GLN:HB2	1.87	0.57
4:AK:316:CYS:HB3	4:AK:378:LEU:HB3	1.87	0.57
3:AL:269:GLY:HA2	3:AL:300:MET:HE1	1.86	0.57
3:AL:292:GLN:O	3:AL:298:ASN:ND2	2.35	0.57
5:B8:48:GLU:HB3	19:J1:97:ARG:CZ	2.35	0.57
5:B8:64:LEU:HB3	5:B8:190:LEU:HD21	1.87	0.57
4:BC:34:GLY:HA2	4:BC:86:LEU:HD21	1.87	0.57
4:BE:214:ARG:NH1	4:BE:215:ARG:HG3	2.19	0.57
4:BE:220:GLU:O	4:BE:221:ARG:NE	2.36	0.57
3:BH:91:VAL:HG11	3:BH:116:VAL:HG12	1.86	0.57
4:BK:220:GLU:O	4:BK:221:ARG:NE	2.35	0.57
7:C7:230:GLN:HB3	7:C7:234:ARG:HH21	1.70	0.57
4:CC:208:ALA:H	4:CC:304:LYS:NZ	2.03	0.57
4:CE:273:ALA:HB2	4:CE:295:CYS:HB3	1.86	0.57
3:CH:46:ARG:O	3:CH:241:ARG:NH1	2.38	0.57
3:CL:2:ARG:HB3	3:CL:131:GLN:NE2	2.20	0.57
8:D8:61:TYR:HE2	11:Ff:380:ARG:HA	1.69	0.57
3:DB:262:ARG:HD2	3:DB:421:GLU:HG3	1.87	0.57
3:DB:372:THR:HB	3:DB:375:GLN:HE22	1.69	0.57
3:DD:273:LEU:H	3:DD:292:GLN:HE22	1.53	0.57
3:DD:328:GLU:OE2	3:DD:329:GLN:NE2	2.36	0.57
3:DF:111:GLU:HG2	3:DF:112:LEU:HD12	1.85	0.57
3:DF:317:PHE:HB3	3:DF:321:MET:HE3	1.87	0.57
4:DI:207:GLU:HB2	4:DI:304:LYS:NZ	2.20	0.57
4:DI:273:ALA:N	4:DI:377:MET:HE1	2.20	0.57
4:DK:401:LYS:C	4:DK:402:ARG:HD3	2.29	0.57
3:EB:302:ALA:HB1	3:EB:377:LEU:HD11	1.87	0.57
3:ED:2:ARG:NH2	4:EE:96:LYS:O	2.38	0.57
4:EE:192:HIS:HA	4:EE:195:LEU:HD23	1.86	0.57
3:EF:222:TYR:HA	3:EF:225:LEU:HD13	1.86	0.57
4:EG:40:LYS:N	13:G2:421:ARG:HH12	1.98	0.57
4:EI:108:TYR:O	4:EI:112:LYS:NZ	2.27	0.57
4:EK:3:GLU:OE2	4:EK:130:THR:N	2.29	0.57
4:EK:53:PHE:O	4:EK:64:ARG:NH1	2.38	0.57
3:EL:375:GLN:C	3:EL:379:LYS:HZ2	2.12	0.57
4:FA:154:MET:HE3	4:FA:194:THR:HG22	1.87	0.57
4:FC:22:GLU:O	4:FC:26:LEU:HD23	2.05	0.57
4:FE:1:MET:O	4:FE:131:GLY:HA3	2.05	0.57
4:FI:220:GLU:O	4:FI:221:ARG:NE	2.36	0.57
3:FL:19:LYS:NZ	3:FL:223:GLY:O	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Ff:123:ILE:HG22	11:Ff:127:LYS:HE2	1.85	0.57
11:Fm:339:THR:HG22	11:Fm:343:PHE:CE2	2.40	0.57
14:G4:467:GLU:HB2	14:G4:480:PHE:CE1	2.40	0.57
14:G6:509:ILE:HB	14:G6:597:GLN:HA	1.86	0.57
14:G6:628:LYS:HA	14:G6:633:GLU:HG2	1.86	0.57
4:GK:220:GLU:O	4:GK:221:ARG:NE	2.36	0.57
15:H1:218:ILE:HD11	15:H1:221:TYR:HD1	1.69	0.57
3:HH:48:ASN:O	3:HH:62:ARG:NH2	2.33	0.57
4:HK:25:CYS:HB2	4:HK:30:ILE:HB	1.87	0.57
4:IA:33:ASP:OD1	4:IA:34:GLY:N	2.36	0.57
4:IA:391:LEU:O	4:IA:395:PHE:N	2.36	0.57
3:IB:302:ALA:HB1	3:IB:377:LEU:HD21	1.87	0.57
3:ID:194:GLU:OE1	3:ID:195:ASN:ND2	2.37	0.57
3:ID:252:LYS:O	3:ID:256:ASN:ND2	2.38	0.57
3:IF:239:CYS:SG	3:IF:248:ALA:HA	2.44	0.57
4:IG:1:MET:O	4:IG:131:GLY:HA3	2.05	0.57
3:IL:77:ARG:O	3:IL:77:ARG:NH1	2.34	0.57
3:IL:268:PRO:HD2	3:IL:301:ALA:HB2	1.87	0.57
4:JI:12:ALA:O	39:JI:501:GTP:N1	2.38	0.57
4:JI:273:ALA:N	4:JI:377:MET:HE1	2.20	0.57
21:K3:421:LEU:O	21:K3:425:HIS:ND1	2.36	0.57
4:KA:252:LEU:HA	4:KA:255:PHE:CD2	2.39	0.57
4:KA:286:LEU:HD11	4:KA:372:GLN:H	1.70	0.57
3:KD:167:PHE:HD1	3:KD:200:TYR:HD2	1.52	0.57
4:KE:53:PHE:O	4:KE:64:ARG:NH1	2.37	0.57
4:KE:116:ASP:OD1	4:KE:117:LEU:N	2.38	0.57
4:KI:34:GLY:HA2	4:KI:86:LEU:HD11	1.87	0.57
3:KJ:376:GLU:HA	3:KJ:379:LYS:HE3	1.86	0.57
4:KK:12:ALA:HB1	39:KK:501:GTP:C2	2.40	0.57
4:KK:33:ASP:OD1	4:KK:34:GLY:N	2.37	0.57
4:KK:76:ASP:OD1	4:KK:79:ARG:NH1	2.38	0.57
22:L1:190:ASP:OD1	22:L1:193:ARG:NH1	2.35	0.57
22:L1:214:LEU:HD12	3:VB:77:ARG:HH21	1.70	0.57
4:LA:370:LYS:HB2	27:Q:166:GLN:NE2	2.20	0.57
4:LE:423:GLU:HA	4:LE:426:ALA:HB3	1.87	0.57
4:LG:262:TYR:OH	3:LH:391:ARG:O	2.23	0.57
3:LH:403:MET:HE2	3:LH:408:PHE:CE1	2.40	0.57
4:LI:9:VAL:HG11	4:LI:150:ALA:HB2	1.86	0.57
3:LJ:83:GLN:O	3:LJ:86:ARG:NH2	2.38	0.57
3:LL:139:LEU:HD21	3:LL:170:VAL:HG22	1.86	0.57
24:M3:63:ASN:O	24:M3:67:ARG:NE	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MC:144:GLY:N	39:MC:501:GTP:O2B	2.35	0.57
4:MC:265:ILE:HD12	4:MC:432:TYR:CE1	2.39	0.57
3:MD:139:LEU:HD21	3:MD:170:VAL:HG22	1.87	0.57
3:MD:156:ARG:NH1	3:MD:195:ASN:O	2.37	0.57
4:MG:34:GLY:HA2	4:MG:86:LEU:HD11	1.87	0.57
4:MI:216:ASN:HB2	4:MI:276:ILE:HD12	1.87	0.57
4:MI:401:LYS:C	4:MI:402:ARG:HD3	2.30	0.57
3:MJ:375:GLN:HA	3:MJ:378:PHE:CZ	2.40	0.57
4:MM:53:PHE:O	4:MM:64:ARG:NH1	2.38	0.57
4:NA:192:HIS:HA	4:NA:195:LEU:HD23	1.87	0.57
3:ND:60:VAL:HG23	3:ND:86:ARG:HH11	1.70	0.57
3:NH:217:LEU:HD11	3:NH:220:PRO:HB3	1.87	0.57
3:NJ:375:GLN:HA	3:NJ:378:PHE:CZ	2.39	0.57
3:NL:111:GLU:HG2	3:NL:112:LEU:HD12	1.87	0.57
28:O1:105:ALA:O	28:O1:109:LEU:HD13	2.05	0.57
3:OB:384:GLN:O	3:OB:388:MET:HG2	2.05	0.57
3:OH:111:GLU:HG2	3:OH:112:LEU:HD12	1.87	0.57
4:OK:265:ILE:HD12	4:OK:432:TYR:CE1	2.40	0.57
3:OL:77:ARG:O	3:OL:77:ARG:NH1	2.35	0.57
29:P2:204:MET:HE1	3:WH:78:SER:HB2	1.86	0.57
3:PF:114:ASP:OD1	3:PF:115:SER:N	2.38	0.57
4:PG:187:SER:O	4:PG:190:THR:OG1	2.18	0.57
3:PH:415:MET:O	3:PH:419:VAL:HG23	2.04	0.57
4:PI:261:PRO:HA	3:PJ:394:PHE:HE1	1.69	0.57
3:PL:38:GLY:O	37:YV:21:GLN:NE2	2.37	0.57
3:PL:379:LYS:O	3:PL:382:SER:OG	2.22	0.57
30:Q1:1478:LEU:HD21	30:Q1:1485:LEU:HD13	1.86	0.57
4:QC:12:ALA:HB1	39:QC:501:GTP:C2	2.40	0.57
4:QC:68:VAL:HG12	4:QC:93:ILE:HB	1.86	0.57
3:QD:11:GLN:HE21	39:QD:501:GTP:H3'	1.69	0.57
39:QD:502:GTP:C2	4:QE:12:ALA:HB1	2.40	0.57
4:QE:278:ALA:O	4:QE:370:LYS:NZ	2.38	0.57
3:QF:261:PRO:HD3	4:QG:406:HIS:CG	2.40	0.57
4:QI:415:GLU:OE2	4:QI:419:SER:OG	2.23	0.57
4:QK:53:PHE:O	4:QK:64:ARG:NH1	2.38	0.57
4:QK:271:THR:HG23	4:QK:302:MET:HE1	1.85	0.57
4:QM:46:ASP:OD1	4:QM:50:ASN:ND2	2.38	0.57
4:QM:205:ASP:OD2	4:QM:304:LYS:NZ	2.25	0.57
3:RD:378:PHE:CD1	3:RD:419:VAL:HG22	2.40	0.57
4:RE:33:ASP:OD1	4:RE:34:GLY:N	2.38	0.57
4:RE:46:ASP:OD1	4:RE:50:ASN:ND2	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:RK:102:ASN:HB3	4:RK:105:ARG:HB2	1.86	0.57
4:RM:5:ILE:HD13	4:RM:64:ARG:HB3	1.85	0.57
4:RM:307:PRO:HB2	4:RM:308:ARG:HH21	1.70	0.57
4:SC:34:GLY:HA2	4:SC:86:LEU:HD21	1.87	0.57
3:SH:139:LEU:HD21	3:SH:170:VAL:HG22	1.87	0.57
3:SH:266:PHE:HB3	3:SH:368:ILE:HD11	1.85	0.57
3:SL:316:VAL:HG22	3:SL:352:ALA:HB3	1.86	0.57
4:SM:206:ASN:HA	4:SM:209:ILE:HD12	1.87	0.57
4:TC:282:TYR:HB2	36:Y:212:HIS:CD2	2.40	0.57
3:TF:289:LEU:HD13	3:TF:363:MET:HE2	1.87	0.57
4:TG:216:ASN:HB2	4:TG:276:ILE:HD12	1.85	0.57
3:TJ:15:GLN:NE2	39:TJ:501:GTP:N1	2.53	0.57
4:TM:282:TYR:CE1	36:Z:259:ILE:HD11	2.40	0.57
4:UE:7:ILE:N	4:UE:136:LEU:O	2.37	0.57
4:UE:180:ALA:HB3	4:UE:183:GLU:HB2	1.86	0.57
3:UF:322:SER:OG	3:UF:323:MET:SD	2.62	0.57
4:UG:423:GLU:HA	4:UG:426:ALA:HB3	1.86	0.57
4:UK:338:LYS:HZ2	4:UK:340:THR:H	1.52	0.57
3:VD:178:THR:HB	3:VD:181:GLU:HB2	1.87	0.57
4:VE:187:SER:O	4:VE:190:THR:OG1	2.21	0.57
4:VG:260:VAL:HG23	4:VG:265:ILE:O	2.05	0.57
4:VK:104:ALA:HB1	4:VK:413:MET:HE3	1.86	0.57
33:W:355:GLU:HA	33:W:358:GLN:HG2	1.87	0.57
3:WD:182:PRO:HB2	3:WD:388:MET:HE1	1.85	0.57
4:WE:171:ILE:HD12	4:WE:204:VAL:HG13	1.87	0.57
4:WI:208:ALA:H	4:WI:304:LYS:HZ1	1.51	0.57
3:WJ:52:ASN:OD1	3:WJ:62:ARG:NH1	2.38	0.57
34:XB:101:ARG:NE	34:XB:116:PRO:O	2.35	0.57
34:XF:81:LYS:HD3	34:XF:161:ARG:HH11	1.70	0.57
35:XJ:152:THR:O	35:XJ:156:LEU:HG	2.04	0.57
35:XK:54:THR:O	35:XK:58:LYS:NZ	2.37	0.57
37:YE:114:ARG:NH2	37:YE:133:HIS:O	2.36	0.57
37:YK:125:LEU:HD11	37:YK:138:VAL:HG11	1.87	0.57
37:YN:65:ILE:HA	37:YN:68:MET:HE1	1.85	0.57
37:YP:60:SER:OG	37:YP:61:THR:N	2.37	0.57
37:YS:82:HIS:CE1	37:YS:86:LEU:HD11	2.40	0.57
2:A2:399:PRO:HD2	7:C3:369:LEU:HD13	1.87	0.57
4:AI:144:GLY:N	39:AI:501:GTP:O2B	2.35	0.57
3:AJ:16:ILE:HD13	3:AJ:226:ASN:ND2	2.20	0.57
4:AK:89:PRO:HD2	4:BK:280:LYS:NZ	2.19	0.57
4:AK:214:ARG:NH1	4:AK:215:ARG:HG3	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AK:216:ASN:HB2	4:AK:276:ILE:HD12	1.86	0.57
3:AL:273:LEU:H	3:AL:292:GLN:HE22	1.52	0.57
3:AL:406:MET:O	3:AL:409:THR:OG1	2.21	0.57
5:B6:392:ASP:HB2	7:C9:337:TRP:CZ2	2.40	0.57
4:BC:49:PHE:O	4:BC:53:PHE:N	2.38	0.57
4:BE:135:PHE:HD2	4:BE:166:LYS:HG3	1.67	0.57
4:BG:9:VAL:HG11	4:BG:150:ALA:HB2	1.86	0.57
4:BI:12:ALA:HB1	39:BI:501:GTP:C2	2.39	0.57
4:BI:208:ALA:H	4:BI:304:LYS:NZ	2.02	0.57
7:C4:177:ILE:HG12	7:C4:180:ARG:HH21	1.68	0.57
3:CH:324:LYS:NZ	4:CI:222:PRO:O	2.26	0.57
3:CH:349:VAL:O	3:CH:350:LYS:HD3	2.05	0.57
4:CK:196:GLU:OE1	4:CK:196:GLU:N	2.34	0.57
7:Cc:147:GLY:HA3	11:Ff:140:ARG:HH21	1.70	0.57
7:Cc:383:LYS:HA	7:Cc:386:ILE:HD12	1.85	0.57
6:D:41:ARG:NH2	4:JK:282:TYR:OH	2.23	0.57
8:D8:180:THR:O	8:D8:184:ARG:NE	2.35	0.57
3:DB:235:GLY:O	3:DB:238:THR:OG1	2.22	0.57
3:DF:415:MET:O	3:DF:419:VAL:HG23	2.04	0.57
3:DH:32:PRO:O	3:DH:83:GLN:NE2	2.30	0.57
3:DH:406:MET:O	3:DH:409:THR:OG1	2.20	0.57
3:DJ:374:ILE:HG23	3:DJ:377:LEU:HD12	1.86	0.57
4:DK:392:ASP:OD1	4:DK:393:HIS:N	2.38	0.57
3:ED:324:LYS:HE2	4:EE:222:PRO:CD	2.34	0.57
4:EG:88:HIS:HB3	4:EG:91:GLN:HB3	1.87	0.57
3:EL:84:ILE:O	3:EL:86:ARG:NH1	2.38	0.57
11:F2:396:LEU:HB2	11:F2:416:LEU:HD21	1.87	0.57
11:F3:363:LYS:HG3	11:F4:110:ARG:NH2	2.18	0.57
11:F6:255:GLU:OE2	11:F6:258:SER:OG	2.22	0.57
11:F6:301:ASN:C	11:F6:305:ARG:HE	2.12	0.57
3:FH:346:PRO:HG2	4:FI:394:LYS:HZ2	1.70	0.57
3:FJ:28:HIS:ND1	3:FJ:43:GLN:HB2	2.20	0.57
3:FJ:269:GLY:N	3:FJ:367:PHE:O	2.37	0.57
4:FK:173:PRO:HB2	4:FK:390:ARG:HH12	1.69	0.57
3:FL:309:ARG:O	3:FL:371:SER:OG	2.22	0.57
11:Fj:259:SER:HB3	11:Fj:262:TYR:CE2	2.40	0.57
14:G6:281:ARG:HD3	14:G6:281:ARG:H	1.70	0.57
14:G6:293:TYR:HD2	14:G6:298:ILE:HG12	1.69	0.57
3:GF:28:HIS:O	3:GF:43:GLN:NE2	2.38	0.57
4:GG:7:ILE:N	4:GG:136:LEU:O	2.26	0.57
3:GH:118:ASP:OD1	3:GH:121:ARG:NH1	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:GI:21:TRP:HA	4:GI:24:TYR:HB2	1.87	0.57
4:HA:216:ASN:HB2	4:HA:276:ILE:HD12	1.87	0.57
3:HF:412:GLU:HA	3:HF:415:MET:HE2	1.85	0.57
4:HG:396:ASP:OD1	4:HG:397:LEU:N	2.38	0.57
4:HI:287:SER:OG	4:HI:290:GLU:OE1	2.21	0.57
3:HJ:8:GLN:NE2	3:HJ:13:GLY:O	2.37	0.57
4:HK:236:SER:O	4:HK:243:ARG:NH2	2.32	0.57
3:IB:187:LEU:HD21	3:IB:408:PHE:HE1	1.69	0.57
4:IM:223:THR:OG1	4:IM:225:THR:OG1	2.20	0.57
18:J:67:VAL:HA	18:J:70:TRP:HD1	1.70	0.57
3:JB:12:CYS:HA	39:JB:501:GTP:N2	2.18	0.57
3:JD:269:GLY:O	3:JD:367:PHE:N	2.34	0.57
3:JF:55:THR:O	3:JF:58:LYS:NZ	2.28	0.57
4:JI:33:ASP:OD1	4:JI:34:GLY:N	2.38	0.57
4:JI:67:PHE:O	4:JI:93:ILE:N	2.38	0.57
3:JL:194:GLU:OE1	3:JL:195:ASN:ND2	2.38	0.57
21:K2:336:LEU:HD23	21:K2:464:ARG:HE	1.69	0.57
3:KB:107:THR:OG1	3:KB:401:GLU:OE2	2.23	0.57
4:KC:20:CYS:O	4:KC:24:TYR:N	2.31	0.57
3:KF:6:HIS:HE1	3:KF:8:GLN:OE1	1.87	0.57
3:KH:330:MET:HG3	3:KH:349:VAL:HG11	1.86	0.57
4:KK:330:ALA:O	4:KK:334:THR:HG23	2.05	0.57
4:LA:272:TYR:CZ	4:LA:274:PRO:HG2	2.40	0.57
3:LD:235:GLY:O	3:LD:238:THR:OG1	2.22	0.57
3:LJ:271:ALA:HB2	3:LJ:365:ALA:H	1.68	0.57
3:MD:412:GLU:HA	3:MD:415:MET:HG3	1.87	0.57
4:ME:205:ASP:OD2	4:ME:304:LYS:NZ	2.32	0.57
4:MG:67:PHE:HB2	4:MG:92:LEU:HD13	1.86	0.57
3:MH:13:GLY:HA2	3:MH:16:ILE:HB	1.86	0.57
4:MK:42:ILE:HG21	4:MK:59:GLY:HA2	1.85	0.57
3:ML:324:LYS:HD2	4:MM:221:ARG:HA	1.85	0.57
4:MM:33:ASP:OD1	4:MM:34:GLY:N	2.38	0.57
26:N3:162:ASP:O	4:VI:96:LYS:NZ	2.38	0.57
4:NA:229:ARG:HE	4:NA:368:LEU:HD22	1.70	0.57
4:NA:287:SER:OG	4:NA:290:GLU:OE1	2.22	0.57
3:NB:141:GLY:HA3	39:NB:501:GTP:H5"	1.87	0.57
3:ND:114:ASP:OD1	3:ND:115:SER:N	2.37	0.57
4:NG:9:VAL:HG11	4:NG:150:ALA:HB2	1.87	0.57
4:NI:5:ILE:HD13	4:NI:64:ARG:HB3	1.87	0.57
4:OA:264:ARG:O	4:OA:266:HIS:ND1	2.38	0.57
4:OA:411:GLU:OE2	4:OA:413:MET:HE1	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:OF:309:ARG:CZ	3:OF:342:VAL:HG12	2.35	0.57
4:OI:46:ASP:OD1	4:OI:50:ASN:ND2	2.36	0.57
4:OI:431:ASP:O	4:OI:435:VAL:HG22	2.05	0.57
3:OL:13:GLY:HA2	3:OL:16:ILE:HB	1.86	0.57
27:P:25:ARG:HH21	27:P:29:ILE:HG13	1.69	0.57
4:PA:115:VAL:HA	4:PA:118:VAL:HG22	1.87	0.57
4:PC:12:ALA:O	39:PC:501:GTP:N1	2.38	0.57
4:PK:53:PHE:O	4:PK:64:ARG:NH1	2.38	0.57
3:PL:148:GLY:O	3:PL:152:ILE:HG13	2.04	0.57
4:PM:84:ARG:NH2	37:YV:123:ASN:O	2.38	0.57
30:Q1:1421:GLN:HE21	30:Q1:1467:GLY:HA2	1.70	0.57
4:QG:390:ARG:HA	4:QG:393:HIS:CD2	2.39	0.57
4:QI:188:ILE:HG13	4:QI:421:ALA:HB1	1.87	0.57
4:QM:161:TYR:O	4:QM:166:LYS:NZ	2.37	0.57
4:RC:102:ASN:HB3	4:RC:105:ARG:HB2	1.85	0.57
3:RD:83:GLN:O	3:RD:86:ARG:NH2	2.38	0.57
4:RE:84:ARG:HH21	37:YE:126:SER:HA	1.68	0.57
4:RG:260:VAL:HG23	4:RG:265:ILE:O	2.05	0.57
3:RH:28:HIS:O	3:RH:43:GLN:NE2	2.38	0.57
3:RH:235:GLY:O	3:RH:238:THR:OG1	2.21	0.57
3:RJ:322:SER:N	3:RJ:325:GLU:OE2	2.36	0.57
4:SC:6:SER:HA	4:SC:136:LEU:HB2	1.87	0.57
4:SC:57:GLY:HA2	36:Y:205:ARG:HE	1.70	0.57
3:SD:178:THR:HB	3:SD:181:GLU:HG3	1.87	0.57
3:SF:345:ILE:HD12	4:SG:398:MET:HE1	1.87	0.57
4:SI:427:ALA:HA	4:SI:430:LYS:HG2	1.87	0.57
4:TC:329:ASN:OD1	4:TC:330:ALA:N	2.37	0.57
3:TD:103:LYS:O	3:TD:108:GLU:N	2.33	0.57
3:TF:347:ASN:HB3	4:TG:178:SER:HB3	1.87	0.57
3:TH:295:ASP:HB2	3:TH:298:ASN:HB2	1.87	0.57
3:TH:318:ARG:NH1	3:TH:365:ALA:O	2.38	0.57
4:TK:216:ASN:HB2	4:TK:276:ILE:HD12	1.85	0.57
4:TK:236:SER:O	4:TK:243:ARG:NH2	2.30	0.57
3:TN:117:LEU:HD11	3:TN:154:LYS:HD2	1.87	0.57
33:U:181:ASP:HB3	33:U:185:MET:HE1	1.87	0.57
4:UA:172:TYR:HB2	4:UA:203:MET:HB3	1.86	0.57
3:UB:3:GLU:HG2	3:UB:130:LEU:HD23	1.86	0.57
4:UC:6:SER:HA	4:UC:136:LEU:HB2	1.86	0.57
3:UD:375:GLN:HA	3:UD:378:PHE:CZ	2.40	0.57
4:UI:88:HIS:CE1	4:UI:121:ARG:HH22	2.22	0.57
4:UI:223:THR:HG1	4:UI:225:THR:HG1	1.51	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:VA:103:TYR:HB2	4:VA:186:ASN:HB2	1.85	0.57
3:VD:5:VAL:HG23	3:VD:130:LEU:HD21	1.87	0.57
4:VG:208:ALA:N	4:VG:304:LYS:HZ1	2.02	0.57
4:VI:273:ALA:N	4:VI:377:MET:HE1	2.20	0.57
33:W:247:GLU:HA	33:W:250:ARG:HG2	1.84	0.57
4:WA:401:LYS:C	4:WA:402:ARG:HD3	2.30	0.57
3:WB:296:ALA:HA	3:WB:299:MET:HE3	1.86	0.57
3:WH:347:ASN:HB3	4:WI:178:SER:HB3	1.86	0.57
4:WI:234:ILE:HD11	4:WI:272:TYR:HB2	1.86	0.57
4:WK:144:GLY:N	39:WK:501:GTP:O2B	2.38	0.57
34:XA:84:LYS:HG3	34:XA:84:LYS:O	2.05	0.57
34:XA:140:THR:HG21	34:XA:148:TYR:N	2.20	0.57
34:XD:78:MET:HE3	34:XD:132:ILE:HG13	1.87	0.57
37:YA:57:CYS:O	37:YA:63:ARG:NH1	2.38	0.57
37:YC:137:VAL:HG13	37:YC:138:VAL:HG13	1.87	0.57
37:YG:130:ALA:HA	37:YG:134:TYR:HB2	1.87	0.57
2:A4:71:ARG:O	2:A4:74:LYS:HG3	2.04	0.56
3:AB:372:THR:HB	3:AB:375:GLN:HE22	1.70	0.56
4:AI:89:PRO:HD2	4:BI:280:LYS:NZ	2.20	0.56
4:AI:141:PHE:HD2	4:AI:172:TYR:HA	1.69	0.56
4:AI:264:ARG:HD2	34:XE:115:LYS:HD3	1.87	0.56
4:AI:417:GLU:OE1	4:AI:417:GLU:N	2.28	0.56
39:AL:501:GTP:O3G	39:AL:501:GTP:O3'	2.21	0.56
4:AM:172:TYR:HB2	4:AM:203:MET:HB2	1.85	0.56
5:B3:30:ARG:NH1	5:B3:31:GLN:OE1	2.38	0.56
5:B3:92:LEU:HD11	5:B3:236:SER:HB2	1.86	0.56
5:B4:177:ARG:NH2	10:E1:133:ARG:O	2.38	0.56
5:B8:182:THR:OG1	5:B9:328:GLU:OE1	2.23	0.56
5:B9:307:LYS:NZ	5:B9:349:ILE:HA	2.15	0.56
4:BC:88:HIS:CE1	4:BC:121:ARG:HH22	2.23	0.56
4:BC:264:ARG:O	4:BC:266:HIS:ND1	2.34	0.56
3:BF:216:LYS:O	3:BF:276:ARG:NH2	2.37	0.56
3:BJ:286:VAL:HG21	3:BJ:325:GLU:HG3	1.86	0.56
4:BK:254:GLU:OE1	4:BK:254:GLU:N	2.35	0.56
4:BM:66:VAL:HG22	4:BM:91:GLN:HG3	1.87	0.56
4:BM:214:ARG:NH1	4:BM:215:ARG:HG3	2.20	0.56
7:C5:380:GLU:C	7:C5:384:LYS:HZ2	2.13	0.56
7:C6:145:ASN:OD1	7:C7:419:ARG:NH1	2.38	0.56
7:C6:179:ARG:O	7:C6:183:ARG:HG2	2.04	0.56
7:C7:386:ILE:O	7:C7:389:LYS:HG2	2.05	0.56
7:C7:414:ASP:N	7:C7:417:GLN:OE1	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C9:378:THR:O	7:C9:381:SER:OG	2.20	0.56
4:CE:16:ILE:HD11	4:CE:138:PHE:HB3	1.87	0.56
4:CG:319:TYR:N	4:CG:354:GLY:O	2.38	0.56
3:CH:118:ASP:OD1	3:CH:121:ARG:NH1	2.39	0.56
4:CI:9:VAL:HA	4:CI:68:VAL:HG23	1.86	0.56
3:CL:247:ASN:HB3	3:CL:252:LYS:HG2	1.86	0.56
3:DB:48:ASN:HD21	15:H2:288:PHE:HB2	1.69	0.56
3:DB:372:THR:HG21	3:DB:426:GLN:HG3	1.86	0.56
4:DC:10:GLY:O	4:DC:13:GLY:N	2.38	0.56
4:DC:236:SER:O	4:DC:243:ARG:NH2	2.33	0.56
3:DD:60:VAL:HG23	3:DD:86:ARG:HH11	1.70	0.56
4:DG:351:PHE:HZ	3:DH:175:VAL:HB	1.70	0.56
4:DI:224:TYR:HD1	4:DI:227:LEU:HD12	1.70	0.56
3:DJ:83:GLN:O	3:DJ:86:ARG:NH2	2.38	0.56
4:EA:203:MET:HE1	4:EA:267:PHE:HB3	1.86	0.56
4:EA:392:ASP:OD1	4:EA:393:HIS:N	2.38	0.56
3:ED:32:PRO:HG2	13:G1:499:PHE:HB3	1.84	0.56
4:EE:214:ARG:NH1	4:EE:215:ARG:HG3	2.20	0.56
11:F7:196:TYR:O	11:F7:199:GLU:HG3	2.06	0.56
11:F9:458:LYS:HE3	11:F9:462:LEU:HD11	1.86	0.56
3:FF:321:MET:SD	3:FF:363:MET:HG3	2.44	0.56
4:FK:53:PHE:O	4:FK:64:ARG:NH1	2.38	0.56
4:FK:423:GLU:HA	4:FK:426:ALA:HB3	1.87	0.56
11:Fb:356:LYS:O	11:Fb:359:THR:OG1	2.19	0.56
11:Fb:394:THR:HG21	11:Fc:277:ILE:HD12	1.87	0.56
11:Fc:203:GLY:HA3	11:Fc:457:ILE:HD11	1.87	0.56
11:Ff:170:MET:HE1	11:Ff:318:ARG:HB2	1.87	0.56
11:Fg:176:ARG:O	11:Fg:176:ARG:NH1	2.37	0.56
12:G:94:THR:HG22	12:G:97:ARG:HH21	1.69	0.56
14:G4:467:GLU:HB2	14:G4:480:PHE:HE1	1.69	0.56
3:GB:3:GLU:OE2	3:GB:129:CYS:N	2.38	0.56
3:GB:268:PRO:HD2	3:GB:301:ALA:HB2	1.87	0.56
4:GC:319:TYR:HE2	4:GC:328:VAL:HG13	1.70	0.56
3:GD:139:LEU:N	3:GD:168:SER:OG	2.37	0.56
4:GE:6:SER:OG	4:GE:8:HIS:NE2	2.36	0.56
4:GE:186:ASN:HA	4:GE:189:LEU:HD12	1.87	0.56
4:GE:216:ASN:HD21	4:GE:275:VAL:HG23	1.70	0.56
3:GF:415:MET:O	3:GF:419:VAL:HG23	2.05	0.56
3:GH:111:GLU:HG2	3:GH:112:LEU:HD12	1.87	0.56
3:GH:350:LYS:HE3	4:GI:181:VAL:H	1.70	0.56
3:GJ:77:ARG:O	3:GJ:77:ARG:NH1	2.30	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H3:13:GLU:HG3	15:H3:14:PRO:HA	1.87	0.56
4:HE:135:PHE:HD2	4:HE:166:LYS:HG3	1.69	0.56
4:HI:125:LEU:HD13	4:HI:128:LEU:HD21	1.86	0.56
3:HL:2:ARG:HA	3:HL:129:CYS:O	2.05	0.56
3:HL:28:HIS:HD2	3:HL:43:GLN:HB2	1.70	0.56
16:I:96:MET:O	16:I:100:LEU:N	2.32	0.56
3:IF:141:GLY:HA3	39:IF:501:GTP:H5"	1.87	0.56
4:IG:33:ASP:OD1	4:IG:34:GLY:N	2.37	0.56
3:IH:419:VAL:HG12	3:IH:423:GLN:HE22	1.70	0.56
3:IJ:91:VAL:HG11	3:IJ:116:VAL:HG12	1.87	0.56
3:IL:345:ILE:HD12	3:IL:346:PRO:HD2	1.87	0.56
19:J3:92:HIS:CE1	19:J3:123:TYR:CD2	2.93	0.56
4:JA:83:TYR:HB3	4:JA:86:LEU:HD12	1.86	0.56
3:JB:302:ALA:HB1	3:JB:377:LEU:HD11	1.87	0.56
4:JC:30:ILE:HA	4:JC:36:MET:HE1	1.86	0.56
3:JD:74:ASP:HB3	38:a:42:ARG:NH1	2.20	0.56
3:JH:72:THR:O	3:JH:75:SER:OG	2.22	0.56
3:JH:151:LEU:HD22	3:JH:154:LYS:HZ1	1.68	0.56
21:K4:196:ASP:O	21:K4:200:VAL:N	2.34	0.56
3:KF:151:LEU:HD13	3:KF:154:LYS:HD2	1.87	0.56
3:KF:322:SER:N	3:KF:325:GLU:OE2	2.38	0.56
4:KG:88:HIS:HB3	4:KG:91:GLN:CB	2.34	0.56
4:KG:144:GLY:N	39:KG:501:GTP:O2B	2.34	0.56
4:KI:3:GLU:OE2	4:KI:130:THR:N	2.30	0.56
4:KI:264:ARG:O	4:KI:266:HIS:ND1	2.38	0.56
4:KI:271:THR:HB	4:KI:377:MET:HB3	1.86	0.56
3:KJ:247:ASN:HB3	3:KJ:252:LYS:HG2	1.86	0.56
22:L2:193:ARG:NH1	22:L2:248:LYS:O	2.37	0.56
22:L2:197:LEU:HD22	22:L2:241:ILE:HG23	1.87	0.56
22:L2:254:ASN:OD1	22:L2:255:LYS:N	2.37	0.56
4:LA:12:ALA:HB2	39:LA:501:GTP:H5"	1.87	0.56
4:LG:229:ARG:HE	4:LG:368:LEU:HD22	1.69	0.56
4:LG:316:CYS:HB3	4:LG:378:LEU:HB3	1.86	0.56
4:LK:46:ASP:HA	4:LK:50:ASN:HB3	1.87	0.56
4:LK:216:ASN:HD21	4:LK:275:VAL:HG23	1.70	0.56
4:LK:370:LYS:HD2	27:R:213:VAL:HG13	1.87	0.56
3:LL:269:GLY:HA2	3:LL:300:MET:HE1	1.87	0.56
3:MB:130:LEU:HB2	3:MB:162:ARG:HH11	1.69	0.56
4:MC:207:GLU:HB2	4:MC:304:LYS:NZ	2.20	0.56
4:MC:210:TYR:OH	4:MC:221:ARG:NH2	2.38	0.56
4:MC:278:ALA:O	4:MC:370:LYS:NZ	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MD:182:PRO:HB2	3:MD:388:MET:HE1	1.85	0.56
3:MF:174:LYS:HG3	3:MF:175:VAL:HG12	1.87	0.56
3:MH:278:SER:O	3:MH:282:ARG:HG2	2.05	0.56
4:MK:9:VAL:HG22	4:MK:146:GLY:HA2	1.86	0.56
3:ML:83:GLN:O	3:ML:86:ARG:NH2	2.38	0.56
26:N3:76:ALA:HB1	26:N3:95:HIS:HA	1.86	0.56
4:NA:154:MET:HE3	4:NA:194:THR:HG22	1.87	0.56
4:NA:401:LYS:C	4:NA:402:ARG:HD3	2.30	0.56
4:NE:127:ASP:OD1	4:NE:128:LEU:N	2.38	0.56
4:NE:161:TYR:O	4:NE:166:LYS:NZ	2.37	0.56
4:NE:401:LYS:C	4:NE:402:ARG:HD3	2.30	0.56
4:OG:189:LEU:HA	4:OG:192:HIS:CE1	2.39	0.56
4:OI:49:PHE:O	4:OI:53:PHE:N	2.36	0.56
4:OK:9:VAL:HA	4:OK:68:VAL:HG23	1.86	0.56
29:P1:84:VAL:HG22	29:P1:113:LYS:HB2	1.87	0.56
29:P3:87:MET:SD	29:P3:87:MET:N	2.77	0.56
4:PC:49:PHE:O	4:PC:53:PHE:N	2.35	0.56
3:PF:324:LYS:NZ	4:PG:222:PRO:O	2.28	0.56
3:PL:324:LYS:HD2	4:PM:221:ARG:HA	1.87	0.56
30:Q1:1356:GLY:HA2	30:Q1:1393:LYS:HG3	1.87	0.56
4:QG:216:ASN:ND2	4:QG:275:VAL:O	2.38	0.56
4:QG:229:ARG:HE	4:QG:368:LEU:HD22	1.69	0.56
3:QH:156:ARG:NH1	3:QH:195:ASN:O	2.37	0.56
3:QJ:46:ARG:HH12	4:QK:73:THR:HG23	1.70	0.56
3:QJ:139:LEU:N	3:QJ:168:SER:OG	2.37	0.56
4:QM:98:ASP:O	4:QM:105:ARG:NH2	2.35	0.56
4:QM:204:VAL:HG23	4:QM:302:MET:HG2	1.87	0.56
4:QM:272:TYR:CZ	4:QM:274:PRO:HG2	2.39	0.56
27:R:262:SER:OG	27:R:267:ARG:O	2.22	0.56
3:RB:273:LEU:H	3:RB:292:GLN:HE22	1.52	0.56
3:RD:100:ASN:HB3	3:RD:103:LYS:HB2	1.86	0.56
4:RE:161:TYR:O	4:RE:166:LYS:NZ	2.36	0.56
4:RE:262:TYR:OH	3:RF:391:ARG:O	2.22	0.56
3:RL:286:VAL:HG21	3:RL:325:GLU:HG3	1.85	0.56
4:SC:171:ILE:HD12	4:SC:204:VAL:HG13	1.85	0.56
3:SD:55:THR:O	3:SD:58:LYS:NZ	2.31	0.56
4:SE:333:ALA:HA	4:SE:336:LYS:HD2	1.87	0.56
4:SI:188:ILE:HG13	4:SI:421:ALA:HB1	1.87	0.56
4:SK:22:GLU:O	4:SK:26:LEU:HD23	2.05	0.56
4:SM:307:PRO:O	4:SM:342:GLN:NE2	2.38	0.56
3:TF:299:MET:SD	3:TF:301:ALA:N	2.78	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:TG:172:TYR:HD1	4:TG:203:MET:HG2	1.69	0.56
3:TH:258:VAL:HB	4:TI:407:TRP:CZ2	2.38	0.56
3:TJ:324:LYS:HD2	4:TK:221:ARG:HA	1.87	0.56
3:UF:52:ASN:OD1	3:UF:62:ARG:NH1	2.37	0.56
4:VA:54:SER:HB2	4:VA:62:VAL:HB	1.87	0.56
4:VE:67:PHE:HB2	4:VE:92:LEU:HD13	1.87	0.56
4:VG:216:ASN:ND2	4:VG:275:VAL:O	2.38	0.56
3:VH:2:ARG:HA	3:VH:129:CYS:O	2.05	0.56
3:VH:246:LEU:HB2	3:VH:352:ALA:HB1	1.87	0.56
3:WB:322:SER:N	3:WB:325:GLU:OE2	2.37	0.56
3:WH:316:VAL:HG22	3:WH:352:ALA:HB3	1.85	0.56
4:WI:127:ASP:OD1	4:WI:128:LEU:N	2.38	0.56
4:WI:271:THR:HB	4:WI:377:MET:HB3	1.86	0.56
3:WL:83:GLN:O	3:WL:86:ARG:NH2	2.39	0.56
1:A:92:ARG:HB3	9:E:804:ILE:HA	1.86	0.56
1:A:308:GLU:HB2	1:A:311:ARG:HH21	1.69	0.56
2:A4:14:GLU:HA	2:A4:17:TYR:HD2	1.69	0.56
2:A4:61:LYS:HD3	5:B1:281:TRP:CE2	2.39	0.56
3:AB:286:VAL:HG21	3:AB:325:GLU:HG3	1.87	0.56
3:AD:209:ASP:O	3:AD:213:ARG:HG2	2.05	0.56
4:AE:98:ASP:O	4:AE:105:ARG:NH2	2.29	0.56
4:AE:192:HIS:HA	4:AE:195:LEU:HD23	1.86	0.56
3:AH:292:GLN:O	3:AH:298:ASN:ND2	2.36	0.56
3:AH:375:GLN:HA	3:AH:378:PHE:CZ	2.40	0.56
4:AI:287:SER:OG	4:AI:290:GLU:OE1	2.23	0.56
4:AK:118:VAL:HA	4:AK:121:ARG:HG2	1.86	0.56
4:AK:256:GLN:O	4:AK:260:VAL:HG12	2.06	0.56
4:AM:433:GLU:O	4:AM:437:VAL:N	2.36	0.56
5:B1:282:GLN:HE22	5:B2:25:SER:HA	1.69	0.56
5:B3:96:LYS:NZ	5:B3:155:ILE:O	2.38	0.56
5:B3:132:PRO:HA	5:B3:135:GLU:HG2	1.87	0.56
5:B8:304:LEU:O	5:B8:308:MET:HE3	2.05	0.56
5:B9:276:TYR:HA	5:B9:380:LYS:NZ	2.19	0.56
3:BD:143:THR:HG22	3:BD:147:MET:HE2	1.87	0.56
3:BF:269:GLY:N	3:BF:367:PHE:O	2.38	0.56
3:BF:392:LYS:HB2	3:BF:395:LEU:HD13	1.87	0.56
4:BG:172:TYR:N	4:BG:204:VAL:O	2.36	0.56
3:BJ:380:ARG:O	3:BJ:384:GLN:HG2	2.06	0.56
3:BL:285:THR:O	3:BL:288:GLU:HG3	2.05	0.56
4:BM:401:LYS:C	4:BM:402:ARG:HD3	2.29	0.56
7:C8:232:ARG:O	7:C8:236:HIS:ND1	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C8:375:ILE:O	7:C8:379:ILE:HG12	2.05	0.56
3:CB:302:ALA:HB1	3:CB:377:LEU:HD21	1.86	0.56
4:CK:88:HIS:HB3	4:CK:91:GLN:HB2	1.86	0.56
3:CL:152:ILE:O	3:CL:156:ARG:HG2	2.04	0.56
4:CM:185:TYR:HA	4:CM:395:PHE:HE1	1.69	0.56
7:Cb:364:HIS:O	7:Cb:368:THR:HG23	2.05	0.56
6:D:84:LYS:NZ	6:D:85:VAL:O	2.32	0.56
8:D7:411:SER:HA	8:D7:414:LYS:HE2	1.87	0.56
8:D7:415:ASP:OD2	8:D8:63:ARG:NH1	2.38	0.56
4:DA:329:ASN:OD1	4:DA:330:ALA:N	2.38	0.56
3:DJ:226:ASN:HA	3:DJ:229:VAL:HG22	1.85	0.56
4:DK:230:LEU:HA	4:DK:233:GLN:OE1	2.05	0.56
10:E3:6:ARG:O	10:E3:145:ARG:NH1	2.38	0.56
4:EA:53:PHE:O	4:EA:64:ARG:NH1	2.38	0.56
3:EF:6:HIS:HE1	3:EF:8:GLN:HB3	1.69	0.56
3:EF:384:GLN:HB3	3:EF:388:MET:HE1	1.86	0.56
4:EG:203:MET:N	4:EG:203:MET:SD	2.77	0.56
11:F4:126:ASP:OD1	11:F4:127:LYS:N	2.38	0.56
11:F4:170:MET:HE1	11:F4:318:ARG:HB2	1.87	0.56
11:F7:102:GLN:HG3	11:F8:450:ARG:HH22	1.69	0.56
3:FB:54:ALA:HB3	3:FB:58:LYS:HG3	1.87	0.56
3:FB:269:GLY:N	3:FB:367:PHE:O	2.37	0.56
4:FK:50:ASN:O	4:FK:64:ARG:NH1	2.37	0.56
4:FK:316:CYS:N	4:FK:378:LEU:O	2.33	0.56
11:Fe:444:LEU:N	11:Fe:446:MET:SD	2.79	0.56
12:G:385:ALA:O	12:G:388:GLN:NE2	2.36	0.56
13:G2:424:ALA:N	13:G2:438:PHE:O	2.33	0.56
13:G2:513:LEU:O	13:G2:516:MET:HG3	2.04	0.56
13:G3:474:LYS:HA	13:G3:485:TYR:CE1	2.39	0.56
14:G4:155:ASN:ND2	14:G4:187:PRO:O	2.38	0.56
14:G4:487:LYS:HA	14:G4:501:TYR:HD1	1.70	0.56
14:G5:483:ARG:HD2	14:G5:483:ARG:O	2.04	0.56
4:GA:88:HIS:HA	4:HA:283:HIS:HE1	1.69	0.56
4:GA:329:ASN:OD1	4:GA:330:ALA:N	2.38	0.56
3:GF:130:LEU:HB2	3:GF:162:ARG:HH11	1.70	0.56
4:GK:256:GLN:O	4:GK:260:VAL:HG12	2.06	0.56
4:GK:320:ARG:HG2	4:GK:358:GLN:O	2.04	0.56
15:H2:226:PRO:HG3	15:H2:247:PHE:CZ	2.39	0.56
4:HA:427:ALA:HA	4:HA:430:LYS:HG2	1.87	0.56
4:HE:213:CYS:O	4:HE:218:ASP:N	2.38	0.56
4:HE:256:GLN:O	4:HE:260:VAL:HG12	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HE:287:SER:OG	4:HE:290:GLU:OE1	2.20	0.56
3:HF:11:GLN:HG3	39:HF:501:GTP:PA	2.45	0.56
4:HG:331:ALA:O	4:HG:334:THR:OG1	2.20	0.56
3:HH:379:LYS:O	3:HH:382:SER:OG	2.16	0.56
3:HJ:170:VAL:N	3:HJ:202:ILE:O	2.27	0.56
3:HL:198:GLU:HA	3:HL:266:PHE:HE2	1.70	0.56
3:IB:4:ILE:HD11	3:IB:131:GLN:HB2	1.85	0.56
4:IK:2:ARG:HA	4:IK:133:GLN:HE22	1.70	0.56
19:J1:134:TRP:O	19:J1:137:THR:OG1	2.23	0.56
3:JF:12:CYS:HA	39:JF:501:GTP:N2	2.20	0.56
4:JG:144:GLY:N	39:JG:501:GTP:O2B	2.34	0.56
4:JG:316:CYS:N	4:JG:378:LEU:O	2.35	0.56
3:JH:11:GLN:HE21	39:JH:501:GTP:H3'	1.70	0.56
3:JJ:357:PRO:HB3	3:JJ:362:LYS:HA	1.86	0.56
3:JL:16:ILE:HD13	3:JL:226:ASN:HD22	1.70	0.56
3:JL:305:PRO:HB2	3:JL:310:TYR:HE1	1.70	0.56
3:KD:16:ILE:HD13	3:KD:226:ASN:HD22	1.70	0.56
3:KF:34:GLY:HA3	3:KF:58:LYS:HZ2	1.69	0.56
3:KL:150:LEU:O	3:KL:153:SER:OG	2.18	0.56
3:KL:218:THR:OG1	3:KL:219:THR:N	2.37	0.56
3:LB:309:ARG:NH2	3:LB:426:GLN:O	2.38	0.56
3:LH:412:GLU:HA	3:LH:415:MET:HE2	1.87	0.56
4:LI:171:ILE:HD12	4:LI:204:VAL:HG23	1.87	0.56
4:LK:161:TYR:O	4:LK:166:LYS:NZ	2.38	0.56
4:LK:208:ALA:H	4:LK:304:LYS:NZ	2.03	0.56
3:LL:415:MET:O	3:LL:419:VAL:HG23	2.04	0.56
23:M:117:ARG:O	23:M:121:ALA:N	2.38	0.56
4:MC:33:ASP:OD1	4:MC:34:GLY:N	2.39	0.56
4:MC:279:GLU:HG3	27:P:349:GLN:HE22	1.70	0.56
3:MD:296:ALA:HA	3:MD:299:MET:HE3	1.86	0.56
4:ME:21:TRP:HA	4:ME:24:TYR:HB2	1.86	0.56
4:ME:234:ILE:HD11	4:ME:272:TYR:HB2	1.87	0.56
4:ME:245:ASP:O	4:ME:356:ASN:ND2	2.37	0.56
3:MF:28:HIS:O	3:MF:43:GLN:NE2	2.39	0.56
3:MH:235:GLY:O	3:MH:238:THR:OG1	2.22	0.56
3:MH:239:CYS:SG	3:MH:248:ALA:HA	2.45	0.56
3:MH:323:MET:SD	3:MH:323:MET:N	2.76	0.56
3:MJ:245:GLN:HB2	4:MK:11:GLN:OE1	2.05	0.56
3:NB:111:GLU:HG2	3:NB:112:LEU:HD12	1.87	0.56
4:NE:87:PHE:HB3	4:NE:92:LEU:HD21	1.87	0.56
4:NE:172:TYR:HB2	4:NE:203:MET:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:NG:265:ILE:HD12	4:NG:432:TYR:CE1	2.40	0.56
28:O3:81:LEU:HB3	28:O3:115:GLY:HA3	1.85	0.56
28:O3:104:ASN:OD1	28:O3:105:ALA:N	2.38	0.56
4:OA:127:ASP:OD1	4:OA:128:LEU:N	2.38	0.56
4:OE:68:VAL:HG12	4:OE:93:ILE:HB	1.87	0.56
4:OE:265:ILE:HD12	4:OE:432:TYR:CE1	2.40	0.56
4:OG:115:VAL:HA	4:OG:118:VAL:HG22	1.86	0.56
3:OH:235:GLY:O	3:OH:238:THR:OG1	2.20	0.56
29:P2:476:CYS:O	29:P2:488:TRP:N	2.38	0.56
3:PB:375:GLN:HA	3:PB:378:PHE:CZ	2.40	0.56
3:PF:245:GLN:HG3	4:PG:11:GLN:HE22	1.69	0.56
3:PJ:398:TYR:HB3	3:PJ:403:MET:HB2	1.86	0.56
3:PL:325:GLU:O	3:PL:329:GLN:HG2	2.05	0.56
30:Q3:1427:LYS:HE2	30:Q3:1499:LYS:H	1.69	0.56
4:QC:33:ASP:OD1	4:QC:34:GLY:N	2.38	0.56
4:QC:223:THR:OG1	4:QC:225:THR:OG1	2.18	0.56
3:QD:52:ASN:OD1	3:QD:62:ARG:NH1	2.38	0.56
4:QE:34:GLY:HA2	4:QE:86:LEU:HD21	1.86	0.56
3:QH:345:ILE:HD11	4:QI:181:VAL:HG11	1.86	0.56
4:QK:154:MET:HE3	4:QK:194:THR:HG22	1.85	0.56
4:QK:401:LYS:C	4:QK:402:ARG:HD3	2.30	0.56
3:QL:282:ARG:NH2	3:QL:292:GLN:OE1	2.30	0.56
4:QM:338:LYS:HZ2	4:QM:340:THR:H	1.52	0.56
3:RB:101:TRP:CE3	3:RB:187:LEU:HD13	2.40	0.56
3:RB:175:VAL:HG22	3:RB:177:ASP:H	1.68	0.56
4:RK:33:ASP:OD1	4:RK:34:GLY:N	2.38	0.56
3:SB:375:GLN:HA	3:SB:378:PHE:CZ	2.40	0.56
4:SE:12:ALA:HB2	39:SE:501:GTP:H5"	1.87	0.56
4:SE:52:PHE:HZ	4:SE:239:THR:HB	1.70	0.56
3:SF:211:CYS:HA	3:SF:215:LEU:HB2	1.87	0.56
3:SH:117:LEU:HA	3:SH:120:VAL:HG22	1.87	0.56
4:SI:89:PRO:HD2	4:TI:280:LYS:HZ3	1.70	0.56
3:SJ:309:ARG:H	3:SJ:372:THR:HG1	1.49	0.56
3:TB:73:MET:HA	3:TB:76:VAL:HG22	1.87	0.56
4:TE:50:ASN:O	4:TE:64:ARG:NH1	2.38	0.56
4:TE:372:GLN:NE2	36:Y:161:GLU:OE1	2.34	0.56
3:TF:269:GLY:HA2	3:TF:300:MET:HE1	1.86	0.56
3:TH:111:GLU:HG2	3:TH:112:LEU:HD12	1.87	0.56
3:TH:322:SER:N	3:TH:325:GLU:OE2	2.36	0.56
3:TJ:132:GLY:HA3	3:TJ:163:ILE:H	1.70	0.56
3:TL:292:GLN:O	3:TL:298:ASN:ND2	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TL:350:LYS:HE3	4:TM:181:VAL:H	1.70	0.56
3:TL:375:GLN:HA	3:TL:378:PHE:CZ	2.40	0.56
3:UD:256:ASN:HB3	3:UD:350:LYS:HG3	1.86	0.56
4:UG:220:GLU:O	4:UG:221:ARG:NE	2.36	0.56
4:UK:224:TYR:HE2	39:UK:501:GTP:O6	1.88	0.56
4:UK:401:LYS:C	4:UK:402:ARG:HD3	2.30	0.56
4:VC:154:MET:HE1	4:VC:197:HIS:HB2	1.86	0.56
3:VH:302:ALA:HB1	3:VH:377:LEU:HD11	1.87	0.56
33:W:198:ILE:HG22	33:W:202:LYS:NZ	2.20	0.56
3:WB:214:THR:HG21	3:WB:273:LEU:HB3	1.87	0.56
4:WC:12:ALA:HB2	39:WC:501:GTP:H5"	1.87	0.56
3:WH:117:LEU:HD11	3:WH:154:LYS:HD2	1.86	0.56
3:WH:250:LEU:O	3:WH:254:ALA:N	2.25	0.56
3:WH:415:MET:O	3:WH:419:VAL:HG23	2.05	0.56
3:WJ:269:GLY:N	3:WJ:367:PHE:O	2.39	0.56
35:XK:119:LEU:HD11	35:XK:159:LEU:HD23	1.87	0.56
37:YA:23:PHE:HA	37:YA:26:ILE:HG22	1.86	0.56
37:YI:114:ARG:NH1	37:YI:115:ALA:O	2.38	0.56
37:YK:59:ASN:HB2	37:YK:62:HIS:ND1	2.19	0.56
37:YK:155:SER:HA	37:YK:158:LEU:HG	1.87	0.56
37:YO:30:GLU:OE1	37:YO:33:ARG:NH2	2.38	0.56
37:YU:114:ARG:NH2	37:YU:133:HIS:O	2.38	0.56
36:Z:305:ARG:NH1	36:Z:306:MET:HE3	2.19	0.56
1:A:148:LYS:HA	1:A:151:GLN:HG3	1.86	0.56
2:A2:102:LEU:HD22	2:A2:150:LEU:HD23	1.87	0.56
2:A3:361:GLN:NE2	2:A4:33:GLN:OE1	2.38	0.56
3:AB:269:GLY:N	3:AB:367:PHE:O	2.37	0.56
4:AE:68:VAL:HG12	4:AE:93:ILE:HB	1.87	0.56
4:AE:214:ARG:NH1	4:AE:215:ARG:HG3	2.19	0.56
4:AE:298:PRO:HG3	26:N2:74:ARG:HG2	1.88	0.56
4:AG:145:THR:OG1	39:AG:501:GTP:O1B	2.22	0.56
4:AI:33:ASP:OD1	4:AI:34:GLY:N	2.38	0.56
4:AI:203:MET:HE1	4:AI:267:PHE:HB3	1.87	0.56
5:B3:60:ASN:HA	5:B3:63:ARG:HD2	1.87	0.56
5:B4:7:LYS:HZ1	8:D3:329:ILE:HD12	1.70	0.56
5:B6:43:ARG:O	5:B6:46:ARG:HG2	2.05	0.56
5:B7:193:ASN:O	5:B7:196:SER:OG	2.17	0.56
5:B8:300:LEU:HD22	5:B8:356:LEU:HG	1.86	0.56
5:B8:326:ASN:OD1	5:B8:327:VAL:N	2.36	0.56
5:B8:349:ILE:O	5:B8:353:LYS:HG2	2.04	0.56
3:BD:269:GLY:N	3:BD:367:PHE:O	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BD:374:ILE:HA	3:BD:377:LEU:HD13	1.86	0.56
39:BD:501:GTP:O3G	39:BD:501:GTP:O3'	2.19	0.56
4:BE:208:ALA:H	4:BE:304:LYS:NZ	2.01	0.56
4:BG:214:ARG:NH1	4:BG:215:ARG:HG3	2.20	0.56
39:BH:501:GTP:O3G	39:BH:501:GTP:O3'	2.19	0.56
4:BI:406:HIS:HA	4:BI:409:VAL:HG22	1.87	0.56
4:BM:224:TYR:HA	4:BM:227:LEU:N	2.21	0.56
7:C1:121:ARG:NH1	7:C2:375:ILE:HA	2.20	0.56
7:C1:145:ASN:O	7:C1:148:GLU:HG2	2.04	0.56
7:C2:379:ILE:HD11	7:C2:441:SER:HB2	1.86	0.56
7:C9:167:MET:SD	7:C9:311:SER:OG	2.62	0.56
3:CD:2:ARG:HB3	3:CD:131:GLN:NE2	2.21	0.56
4:CG:408:TYR:HB3	4:CG:413:MET:HE2	1.88	0.56
3:CH:47:ILE:H	15:H4:224:PHE:HE2	1.52	0.56
3:CH:84:ILE:O	3:CH:86:ARG:NH1	2.38	0.56
3:CH:375:GLN:HA	3:CH:378:PHE:CZ	2.40	0.56
4:CI:184:PRO:HB3	4:CI:394:LYS:HE2	1.86	0.56
4:CI:273:ALA:N	4:CI:377:MET:HE1	2.21	0.56
7:Ca:365:LEU:HD12	7:Ca:452:LYS:HZ2	1.69	0.56
8:D2:179:GLU:OE2	8:D2:296:GLN:HG3	2.05	0.56
8:D2:228:CYS:HB3	8:D3:356:ARG:HH12	1.70	0.56
8:D5:330:THR:O	8:D5:334:HIS:ND1	2.30	0.56
8:D5:370:ARG:N	8:D5:370:ARG:HD2	2.18	0.56
8:D6:376:ARG:HD3	8:D7:102:LYS:NZ	2.21	0.56
8:D7:336:ILE:O	8:D7:339:LEU:HG	2.06	0.56
4:DC:254:GLU:N	4:DC:254:GLU:OE1	2.37	0.56
3:DF:385:PHE:HA	3:DF:388:MET:HE2	1.87	0.56
3:DH:323:MET:SD	3:DH:324:LYS:NZ	2.73	0.56
4:DI:219:ILE:HD12	15:H5:235:ASN:HA	1.87	0.56
3:DJ:32:PRO:O	3:DJ:83:GLN:NE2	2.27	0.56
3:DJ:41:ASP:O	3:DJ:45:GLU:N	2.38	0.56
4:DK:81:GLY:O	4:DK:84:ARG:NH1	2.39	0.56
4:DK:204:VAL:HG23	4:DK:302:MET:HG3	1.86	0.56
4:DK:315:CYS:N	4:DK:350:GLY:O	2.33	0.56
9:E:466:ASN:O	9:E:467:LEU:HB2	2.06	0.56
4:EA:1:MET:O	4:EA:131:GLY:HA3	2.05	0.56
3:EB:217:LEU:HD11	3:EB:220:PRO:HB3	1.85	0.56
4:EC:102:ASN:ND2	4:EC:411:GLU:OE2	2.39	0.56
4:EC:115:VAL:HG21	4:EC:156:ARG:HD3	1.86	0.56
3:ED:410:GLU:HA	3:ED:413:SER:HB3	1.87	0.56
3:EF:217:LEU:HD11	3:EF:220:PRO:HB3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EF:278:SER:HA	3:EF:281:TYR:HB2	1.87	0.56
4:EG:154:MET:HE1	4:EG:197:HIS:HB2	1.87	0.56
3:EH:380:ARG:O	3:EH:384:GLN:HG2	2.05	0.56
4:EK:1:MET:N	4:EK:130:THR:OG1	2.36	0.56
4:EK:220:GLU:HG2	4:EK:221:ARG:HG2	1.86	0.56
3:EL:318:ARG:HD2	3:EL:358:PRO:HG3	1.86	0.56
11:F1:409:ARG:HD3	11:F1:409:ARG:H	1.71	0.56
11:F5:145:ARG:HH22	11:F6:413:GLN:CD	2.13	0.56
11:F6:137:GLY:HA2	11:F6:140:ARG:NE	2.16	0.56
11:F6:360:GLN:HA	11:F6:363:LYS:HG2	1.87	0.56
11:F7:280:PHE:CE1	11:F8:394:THR:HA	2.41	0.56
11:F7:434:LEU:O	11:F7:437:THR:HG22	2.04	0.56
11:F8:434:LEU:HD23	11:F8:438:GLN:HE22	1.70	0.56
3:FB:317:PHE:HB3	3:FB:321:MET:HE3	1.86	0.56
3:FB:378:PHE:HA	3:FB:381:ILE:HG12	1.87	0.56
4:FE:89:PRO:HD2	4:GE:280:LYS:HZ3	1.70	0.56
4:FE:172:TYR:N	4:FE:204:VAL:O	2.31	0.56
3:FF:219:THR:OG1	14:G5:472:ASN:OD1	2.20	0.56
3:FF:302:ALA:HB1	3:FF:377:LEU:HD21	1.85	0.56
3:FF:380:ARG:O	3:FF:384:GLN:HG2	2.05	0.56
4:FG:33:ASP:OD1	4:FG:34:GLY:N	2.39	0.56
3:FJ:48:ASN:O	3:FJ:62:ARG:NH2	2.35	0.56
4:FK:32:PRO:O	4:FK:85:GLN:NE2	2.38	0.56
11:Fc:245:ASP:HA	11:Fc:248:HIS:CE1	2.40	0.56
11:Fh:454:GLU:HA	11:Fh:457:ILE:HD12	1.87	0.56
11:Fi:162:ARG:HB2	11:Fi:311:ARG:HH12	1.68	0.56
11:Fj:300:SER:O	11:Fj:304:ILE:HG12	2.05	0.56
11:Fk:148:ASP:H	11:Fk:151:PHE:HE1	1.52	0.56
11:Fl:447:THR:O	11:Fl:451:LEU:HG	2.05	0.56
12:G:101:LEU:HD13	12:G:104:LEU:HD22	1.86	0.56
12:G:205:TRP:NE1	3:GJ:279:GLN:HB3	2.20	0.56
13:G1:172:ILE:HB	13:G1:183:ILE:HD12	1.86	0.56
13:G1:193:PHE:HD2	13:G1:194:LEU:HD22	1.70	0.56
13:G1:262:TYR:HD1	13:G1:277:GLU:HA	1.70	0.56
13:G2:425:ALA:HB3	13:G2:504:VAL:HB	1.87	0.56
14:G4:436:TYR:HB2	14:G4:454:ILE:HD11	1.87	0.56
14:G4:729:PRO:HB2	14:G4:730:VAL:HG23	1.85	0.56
14:G5:114:GLN:NE2	14:G5:131:ILE:O	2.39	0.56
14:G5:637:MET:O	14:G5:641:ASN:ND2	2.38	0.56
14:G5:712:TYR:HB3	14:G5:715:GLU:HG3	1.88	0.56
3:GD:178:THR:HB	3:GD:181:GLU:HB2	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:GG:53:PHE:O	4:GG:64:ARG:NH1	2.39	0.56
4:GG:417:GLU:OE1	4:GG:417:GLU:N	2.26	0.56
3:GH:11:GLN:HE21	39:GH:501:GTP:H3'	1.70	0.56
4:GI:67:PHE:O	4:GI:93:ILE:N	2.38	0.56
3:GJ:302:ALA:HB1	3:GJ:377:LEU:HD21	1.88	0.56
4:GK:33:ASP:OD1	4:GK:34:GLY:N	2.38	0.56
4:GK:185:TYR:OH	4:GK:403:ALA:O	2.15	0.56
4:GK:401:LYS:C	4:GK:402:ARG:HD3	2.30	0.56
4:HA:311:LYS:HE3	4:HA:344:VAL:HA	1.88	0.56
3:HB:132:GLY:HA2	3:HB:162:ARG:HB3	1.87	0.56
3:HB:250:LEU:O	3:HB:254:ALA:N	2.30	0.56
3:HB:269:GLY:N	3:HB:367:PHE:O	2.38	0.56
4:HC:49:PHE:O	4:HC:53:PHE:N	2.39	0.56
4:HC:205:ASP:OD2	4:HC:304:LYS:NZ	2.29	0.56
4:HC:262:TYR:HE1	3:HD:393:ALA:HA	1.70	0.56
3:HD:256:ASN:HB3	3:HD:350:LYS:HG3	1.86	0.56
4:HE:401:LYS:C	4:HE:402:ARG:HD3	2.30	0.56
3:HF:19:LYS:NZ	3:HF:223:GLY:O	2.38	0.56
4:HG:98:ASP:OD1	4:HG:99:ALA:N	2.38	0.56
3:HH:415:MET:O	3:HH:419:VAL:HG23	2.05	0.56
3:HJ:107:THR:OG1	3:HJ:401:GLU:OE2	2.23	0.56
4:HK:50:ASN:O	4:HK:64:ARG:NH1	2.39	0.56
4:HK:287:SER:OG	4:HK:290:GLU:OE1	2.19	0.56
3:HL:152:ILE:HD12	3:HL:195:ASN:HB2	1.87	0.56
17:I3:57:LEU:HB3	17:I3:69:PHE:CZ	2.40	0.56
4:IA:316:CYS:HB3	4:IA:378:LEU:HB3	1.87	0.56
3:IB:117:LEU:HD11	3:IB:154:LYS:HD2	1.86	0.56
4:IC:206:ASN:HA	4:IC:209:ILE:HD12	1.87	0.56
3:ID:132:GLY:HA2	3:ID:162:ARG:HB3	1.86	0.56
4:IE:244:PHE:HB2	4:IE:356:ASN:HD21	1.70	0.56
4:IE:319:TYR:N	4:IE:354:GLY:O	2.37	0.56
3:IH:277:GLY:O	3:IH:280:GLN:NE2	2.38	0.56
4:II:115:VAL:HG21	4:II:156:ARG:HD3	1.87	0.56
4:II:244:PHE:HB2	4:II:356:ASN:HD21	1.69	0.56
4:IK:208:ALA:H	4:IK:304:LYS:NZ	2.01	0.56
4:IK:438:ASP:HA	3:IL:391:ARG:HH12	1.71	0.56
3:IL:288:GLU:O	3:IL:291:GLN:NE2	2.37	0.56
4:IM:53:PHE:HB3	4:IM:61:HIS:HB3	1.87	0.56
4:IM:166:LYS:N	4:IM:199:ASP:OD2	2.37	0.56
19:J1:49:THR:HG23	19:J1:66:GLN:HB3	1.87	0.56
3:JB:309:ARG:NH2	3:JB:426:GLN:O	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:JC:67:PHE:HB2	4:JC:92:LEU:HD13	1.86	0.56
4:JC:127:ASP:OD1	4:JC:128:LEU:N	2.38	0.56
4:JE:115:VAL:HA	4:JE:118:VAL:HG22	1.87	0.56
4:JE:245:ASP:O	4:JE:356:ASN:ND2	2.38	0.56
3:JH:2:ARG:HA	3:JH:129:CYS:O	2.06	0.56
3:JH:174:LYS:HG3	3:JH:175:VAL:HG12	1.87	0.56
4:JI:9:VAL:HG11	4:JI:150:ALA:HB2	1.87	0.56
4:JI:433:GLU:O	4:JI:437:VAL:N	2.36	0.56
4:JK:236:SER:O	4:JK:243:ARG:NH2	2.35	0.56
20:K:208:GLU:OE1	20:K:208:GLU:N	2.32	0.56
20:K:240:ARG:HA	20:K:245:LYS:HD2	1.88	0.56
21:K1:370:GLU:O	21:K1:374:THR:N	2.26	0.56
21:K2:400:MET:HE2	21:K3:247:LEU:HD13	1.86	0.56
21:K4:127:HIS:O	21:K4:131:ARG:NE	2.38	0.56
21:K4:344:LEU:O	21:K4:348:GLU:HG2	2.05	0.56
4:KA:88:HIS:HB3	4:KA:91:GLN:HG2	1.87	0.56
3:KB:19:LYS:NZ	3:KB:223:GLY:O	2.38	0.56
3:KB:357:PRO:HB3	3:KB:362:LYS:HA	1.86	0.56
4:KC:245:ASP:O	4:KC:356:ASN:ND2	2.38	0.56
4:KE:216:ASN:HD21	4:KE:275:VAL:HG23	1.70	0.56
4:KE:288:VAL:O	4:KE:292:THR:OG1	2.21	0.56
4:KE:329:ASN:HA	4:KE:332:ILE:HG12	1.87	0.56
3:KF:309:ARG:H	3:KF:372:THR:HG1	1.53	0.56
3:KF:397:TRP:O	3:KF:401:GLU:N	2.34	0.56
3:KH:182:PRO:HB2	3:KH:388:MET:HE1	1.87	0.56
3:KH:250:LEU:O	3:KH:254:ALA:N	2.32	0.56
4:KI:154:MET:HE1	4:KI:197:HIS:HB2	1.87	0.56
3:KJ:412:GLU:OE1	3:KJ:416:ASN:ND2	2.38	0.56
3:KL:28:HIS:ND1	3:KL:43:GLN:HB2	2.21	0.56
3:KL:205:GLU:HA	3:KL:208:TYR:HD2	1.70	0.56
3:KL:309:ARG:HE	3:KL:426:GLN:HE21	1.53	0.56
4:LA:331:ALA:O	4:LA:334:THR:OG1	2.19	0.56
3:LB:11:GLN:HE21	39:LB:501:GTP:H3'	1.71	0.56
3:LB:173:PRO:O	3:LB:380:ARG:NH2	2.39	0.56
3:LD:8:GLN:HB2	3:LD:65:LEU:HA	1.87	0.56
3:LD:269:GLY:N	3:LD:367:PHE:O	2.38	0.56
4:LE:1:MET:O	4:LE:131:GLY:HA3	2.04	0.56
4:LE:256:GLN:O	4:LE:260:VAL:HG12	2.04	0.56
4:LE:272:TYR:HE1	4:LE:374:ALA:HB1	1.70	0.56
3:LF:406:MET:O	3:LF:409:THR:OG1	2.23	0.56
4:LG:220:GLU:O	4:LG:221:ARG:NE	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LH:52:ASN:OD1	3:LH:62:ARG:NH1	2.39	0.56
4:LI:201:ALA:H	4:LI:266:HIS:HD2	1.52	0.56
3:LJ:239:CYS:SG	3:LJ:248:ALA:HA	2.45	0.56
3:LJ:258:VAL:HB	4:LK:407:TRP:CZ2	2.40	0.56
3:LL:11:GLN:HE21	39:LL:501:GTP:H3'	1.70	0.56
3:MD:111:GLU:HG2	3:MD:112:LEU:HD12	1.87	0.56
3:MD:172:SER:OG	3:MD:205:GLU:OE2	2.21	0.56
4:ME:171:ILE:HD12	4:ME:204:VAL:HG23	1.87	0.56
3:MF:290:THR:HG21	3:MF:329:GLN:HB3	1.87	0.56
3:MH:139:LEU:HD21	3:MH:170:VAL:HG22	1.87	0.56
4:MI:119:LEU:O	4:MI:123:ARG:HG2	2.05	0.56
4:MI:144:GLY:N	39:MI:501:GTP:O2B	2.38	0.56
4:MI:271:THR:HB	4:MI:377:MET:HB3	1.87	0.56
3:MJ:99:ASN:OD1	3:MJ:142:GLY:HA3	2.05	0.56
3:MJ:372:THR:HB	3:MJ:375:GLN:HE22	1.70	0.56
4:MK:437:VAL:HG12	28:O3:55:ARG:HD3	1.87	0.56
4:NA:101:ASN:HA	4:NA:144:GLY:HA2	1.88	0.56
3:NB:2:ARG:HB3	3:NB:131:GLN:NE2	2.21	0.56
3:NB:11:GLN:HE21	39:NB:501:GTP:H3'	1.69	0.56
4:NC:49:PHE:O	4:NC:53:PHE:N	2.37	0.56
4:NE:273:ALA:HB2	4:NE:295:CYS:HB3	1.86	0.56
4:NG:33:ASP:OD1	4:NG:34:GLY:N	2.37	0.56
4:NG:52:PHE:HZ	4:NG:239:THR:HB	1.70	0.56
3:NH:235:GLY:O	3:NH:238:THR:OG1	2.22	0.56
3:NH:247:ASN:HB3	3:NH:252:LYS:HG3	1.86	0.56
4:NI:207:GLU:HB2	4:NI:304:LYS:NZ	2.20	0.56
4:OA:6:SER:HA	4:OA:136:LEU:HB2	1.87	0.56
4:OA:207:GLU:HB2	4:OA:304:LYS:HZ1	1.69	0.56
4:OE:371:VAL:HG11	4:OE:374:ALA:HB2	1.87	0.56
4:OG:81:GLY:O	4:OG:84:ARG:NH1	2.38	0.56
4:OG:224:TYR:HA	4:OG:227:LEU:HB2	1.86	0.56
3:OH:175:VAL:HG22	3:OH:177:ASP:H	1.70	0.56
4:OI:25:CYS:HB2	4:OI:30:ILE:HB	1.87	0.56
4:OI:207:GLU:HB2	4:OI:304:LYS:HZ1	1.69	0.56
4:OK:32:PRO:O	4:OK:85:GLN:NE2	2.38	0.56
3:OL:284:LEU:HG	3:OL:363:MET:HE2	1.87	0.56
29:P3:250:SER:HB3	3:WL:37:HIS:CE1	2.40	0.56
29:P3:416:HIS:CD2	29:P3:420:VAL:HG22	2.38	0.56
4:PA:154:MET:HE1	4:PA:197:HIS:HB2	1.88	0.56
4:PA:172:TYR:HB2	4:PA:203:MET:HB2	1.88	0.56
4:PA:208:ALA:N	4:PA:304:LYS:HZ1	2.02	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:PA:423:GLU:HA	4:PA:426:ALA:HB3	1.85	0.56
3:PB:322:SER:N	3:PB:325:GLU:OE2	2.38	0.56
3:PD:109:GLY:O	3:PD:113:VAL:HG13	2.06	0.56
3:PD:286:VAL:HG21	3:PD:325:GLU:HG3	1.86	0.56
4:PG:392:ASP:OD1	4:PG:393:HIS:N	2.39	0.56
3:PH:13:GLY:HA2	3:PH:16:ILE:HB	1.85	0.56
4:PI:171:ILE:HD12	4:PI:204:VAL:HG13	1.86	0.56
4:PK:316:CYS:HB3	4:PK:378:LEU:HB2	1.87	0.56
30:Q1:1376:ARG:NH1	30:Q1:1379:SER:OG	2.37	0.56
30:Q1:1423:ALA:N	30:Q1:1509:ASP:OD2	2.36	0.56
30:Q2:1410:LYS:NZ	30:Q2:1418:MET:HB2	2.20	0.56
30:Q2:1469:LEU:N	30:Q2:1504:LYS:HB3	2.21	0.56
3:QB:156:ARG:NH1	3:QB:195:ASN:O	2.36	0.56
3:QB:235:GLY:O	3:QB:238:THR:OG1	2.19	0.56
4:QC:115:VAL:HG21	4:QC:156:ARG:HE	1.71	0.56
4:QC:229:ARG:HE	4:QC:368:LEU:HD22	1.69	0.56
4:QC:316:CYS:N	4:QC:378:LEU:O	2.39	0.56
4:QE:46:ASP:OD1	4:QE:50:ASN:ND2	2.38	0.56
3:QF:2:ARG:HB3	3:QF:131:GLN:NE2	2.19	0.56
3:QH:398:TYR:HB3	3:QH:403:MET:HB3	1.85	0.56
4:QI:33:ASP:OD1	4:QI:34:GLY:N	2.38	0.56
3:QJ:182:PRO:HB2	3:QJ:388:MET:HE1	1.88	0.56
4:QK:317:MET:HE1	4:QK:351:PHE:HB2	1.87	0.56
3:QL:111:GLU:HG2	3:QL:112:LEU:HD12	1.87	0.56
3:QL:278:SER:HA	3:QL:281:TYR:HB2	1.86	0.56
4:QM:358:GLN:NE2	4:QM:359:PRO:O	2.36	0.56
3:RB:385:PHE:HA	3:RB:388:MET:HE2	1.86	0.56
4:RC:317:MET:HE1	4:RC:351:PHE:HB2	1.85	0.56
3:RD:250:LEU:O	3:RD:254:ALA:N	2.31	0.56
3:RJ:309:ARG:N	3:RJ:372:THR:OG1	2.28	0.56
4:RK:273:ALA:N	4:RK:377:MET:HE1	2.20	0.56
3:RL:12:CYS:HA	39:RL:501:GTP:N2	2.20	0.56
3:RL:167:PHE:HD1	3:RL:200:TYR:HD2	1.51	0.56
4:RM:34:GLY:HA2	4:RM:86:LEU:HD11	1.87	0.56
4:RM:108:TYR:O	4:RM:112:LYS:NZ	2.27	0.56
3:SB:103:LYS:O	3:SB:108:GLU:N	2.29	0.56
4:SE:53:PHE:O	4:SE:64:ARG:NH1	2.39	0.56
3:SF:344:TRP:CD1	4:SG:401:LYS:HD2	2.40	0.56
3:SH:324:LYS:HD2	4:SI:221:ARG:HA	1.87	0.56
4:SI:144:GLY:N	39:SI:501:GTP:O2B	2.38	0.56
3:SJ:4:ILE:HD11	3:SJ:131:GLN:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:SJ:12:CYS:HA	39:SJ:501:GTP:N2	2.20	0.56
3:SJ:28:HIS:ND1	3:SJ:43:GLN:HB2	2.19	0.56
3:SJ:375:GLN:HA	3:SJ:378:PHE:CZ	2.40	0.56
3:SL:174:LYS:HG3	3:SL:175:VAL:HG12	1.87	0.56
4:SM:33:ASP:OD1	4:SM:34:GLY:N	2.39	0.56
4:SM:105:ARG:O	4:SM:109:THR:OG1	2.23	0.56
4:TG:125:LEU:HD13	4:TG:128:LEU:HD21	1.87	0.56
4:TG:401:LYS:C	4:TG:402:ARG:HD3	2.29	0.56
3:TH:250:LEU:HD13	3:TH:253:LEU:HD12	1.87	0.56
4:TK:364:PRO:HG3	36:Z:320:ARG:HD3	1.87	0.56
3:TN:141:GLY:HA3	39:TN:501:GTP:H5”	1.86	0.56
3:TN:372:THR:HB	3:TN:375:GLN:HE22	1.71	0.56
33:U:393:ARG:NE	33:U:396:GLU:OE2	2.36	0.56
4:UE:12:ALA:HB1	39:UE:501:GTP:C2	2.40	0.56
3:UF:309:ARG:HE	3:UF:426:GLN:HE21	1.52	0.56
4:UG:188:ILE:HG22	4:UG:421:ALA:HB1	1.86	0.56
4:UI:1:MET:O	4:UI:131:GLY:HA3	2.05	0.56
3:UJ:130:LEU:HB2	3:UJ:162:ARG:HH11	1.71	0.56
4:VA:5:ILE:HD13	4:VA:64:ARG:HB3	1.86	0.56
4:VA:34:GLY:HA2	4:VA:86:LEU:HD21	1.88	0.56
4:VA:214:ARG:NH1	4:VA:215:ARG:HG3	2.20	0.56
4:VE:281:ALA:HB3	4:VE:370:LYS:HZ3	1.69	0.56
3:VF:46:ARG:HH12	4:VG:73:THR:HG23	1.70	0.56
3:VH:12:CYS:HA	39:VH:501:GTP:N2	2.20	0.56
3:VH:321:MET:HE1	3:VH:326:VAL:HB	1.87	0.56
4:VI:433:GLU:O	4:VI:437:VAL:N	2.33	0.56
3:VJ:101:TRP:HB2	3:VJ:184:ASN:HD22	1.70	0.56
4:VK:220:GLU:O	4:VK:221:ARG:NE	2.39	0.56
3:VL:299:MET:SD	3:VL:301:ALA:N	2.78	0.56
4:WC:33:ASP:OD1	4:WC:34:GLY:N	2.38	0.56
4:WC:316:CYS:N	4:WC:378:LEU:O	2.28	0.56
4:WE:220:GLU:O	4:WE:221:ARG:NE	2.38	0.56
3:WF:405:GLU:OE2	3:WF:405:GLU:N	2.33	0.56
3:WH:2:ARG:HA	3:WH:129:CYS:O	2.05	0.56
4:WI:132:LEU:HD11	35:XL:71:HIS:CD2	2.40	0.56
3:WJ:415:MET:O	3:WJ:419:VAL:HG23	2.04	0.56
3:WL:13:GLY:HA2	3:WL:16:ILE:HB	1.88	0.56
3:WL:345:ILE:HD12	3:WL:346:PRO:HD2	1.88	0.56
33:X:460:GLU:OE1	33:X:464:GLN:NE2	2.39	0.56
34:XB:40:ASN:OD1	34:XB:41:ASP:N	2.38	0.56
34:XB:84:LYS:HZ1	35:XH:241:ASN:H	1.52	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:XD:74:PRO:HD2	34:XD:169:ASP:HA	1.87	0.56
34:XE:48:GLU:OE2	34:XE:161:ARG:NE	2.38	0.56
34:XF:78:MET:HE3	34:XF:132:ILE:HG13	1.86	0.56
37:YB:130:ALA:HA	37:YB:134:TYR:HB2	1.88	0.56
37:YF:15:TYR:HA	37:YF:18:PHE:HB2	1.86	0.56
37:YG:41:ARG:NH1	37:YG:48:GLN:OE1	2.38	0.56
37:YN:90:THR:O	37:YN:94:ASN:N	2.28	0.56
37:YO:47:GLU:OE1	37:YO:50:GLN:NE2	2.38	0.56
37:YQ:26:ILE:O	37:YQ:30:GLU:N	2.34	0.56
36:Z:312:THR:O	36:Z:316:MET:N	2.37	0.56
36:Z:411:GLU:HA	36:Z:414:LYS:HD2	1.87	0.56
38:a:92:MET:SD	38:a:93:GLY:N	2.78	0.56
1:A:246:GLU:OE1	1:A:250:ARG:NH2	2.39	0.56
2:A2:71:ARG:O	2:A2:74:LYS:HG3	2.04	0.56
2:A3:102:LEU:HD22	2:A3:150:LEU:HD23	1.87	0.56
2:A4:15:GLU:OE1	2:A4:15:GLU:N	2.36	0.56
3:AB:350:LYS:HE3	4:AC:180:ALA:HA	1.86	0.56
3:AD:268:PRO:HD2	3:AD:301:ALA:HB2	1.86	0.56
4:AE:271:THR:HB	4:AE:377:MET:HE3	1.87	0.56
4:AE:280:LYS:HZ3	4:ME:89:PRO:HD2	1.69	0.56
3:AF:2:ARG:HA	3:AF:129:CYS:O	2.06	0.56
3:AH:235:GLY:O	3:AH:238:THR:OG1	2.21	0.56
3:AH:269:GLY:HA3	3:AH:367:PHE:HB3	1.87	0.56
3:AJ:46:ARG:HH12	4:AK:73:THR:HG23	1.71	0.56
4:AK:215:ARG:NH1	4:AK:299:ALA:O	2.29	0.56
3:AL:173:PRO:HD3	3:AL:203:ASP:OD1	2.05	0.56
3:BD:235:GLY:O	3:BD:238:THR:OG1	2.21	0.56
3:BD:316:VAL:HG22	3:BD:352:ALA:HB3	1.88	0.56
3:BD:357:PRO:HB3	3:BD:362:LYS:HA	1.86	0.56
4:BE:2:ARG:NH2	4:BE:250:VAL:O	2.38	0.56
3:BF:117:LEU:HD11	3:BF:154:LYS:HD2	1.86	0.56
3:BJ:295:ASP:HB2	3:BJ:298:ASN:HB2	1.88	0.56
4:BK:329:ASN:OD1	4:BK:330:ALA:N	2.39	0.56
7:C3:283:TYR:CE1	7:C4:394:LYS:HD3	2.41	0.56
4:CC:207:GLU:HB2	4:CC:304:LYS:NZ	2.20	0.56
4:CE:84:ARG:CZ	15:H2:212:LEU:HD12	2.35	0.56
4:CG:262:TYR:OH	3:CH:391:ARG:O	2.22	0.56
3:CH:269:GLY:N	3:CH:367:PHE:O	2.38	0.56
4:CI:14:VAL:HA	4:CI:67:PHE:HE1	1.70	0.56
4:CK:252:LEU:HA	4:CK:255:PHE:CD2	2.40	0.56
7:Cb:363:THR:HG22	7:Cb:367:LYS:NZ	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Cc:375:ILE:O	7:Cc:379:ILE:HG12	2.06	0.56
8:D8:357:LEU:HB3	8:D9:247:PHE:HE2	1.71	0.56
8:D9:111:HIS:NE2	11:F3:475:SER:O	2.38	0.56
4:DA:12:ALA:HB1	39:DA:501:GTP:C2	2.39	0.56
4:DC:1:MET:N	4:DC:130:THR:OG1	2.38	0.56
4:DC:308:ARG:NH2	4:DC:340:THR:O	2.38	0.56
4:DI:84:ARG:NH2	15:H5:277:ARG:HE	2.03	0.56
4:DI:214:ARG:NH1	4:DI:215:ARG:HG3	2.19	0.56
9:E:467:LEU:HD21	4:IC:370:LYS:HD3	1.87	0.56
4:EC:329:ASN:HA	4:EC:332:ILE:HG12	1.86	0.56
4:EE:8:HIS:NE2	4:EE:21:TRP:HH2	2.02	0.56
3:EH:135:LEU:HD21	3:EH:151:LEU:HD11	1.87	0.56
4:EI:229:ARG:HE	4:EI:368:LEU:HD22	1.70	0.56
3:EJ:12:CYS:HB3	39:EJ:501:GTP:H5'	1.87	0.56
4:EK:331:ALA:O	4:EK:334:THR:OG1	2.22	0.56
4:EK:390:ARG:HA	4:EK:393:HIS:CE1	2.39	0.56
11:F1:228:GLN:HA	11:F1:231:LYS:HD2	1.88	0.56
11:F2:131:ILE:HA	11:F2:134:MET:SD	2.45	0.56
11:F8:211:VAL:HA	11:F8:214:ASN:HB3	1.86	0.56
3:FB:372:THR:HG21	3:FB:426:GLN:HG3	1.87	0.56
4:FC:262:TYR:OH	3:FD:391:ARG:O	2.23	0.56
3:FF:374:ILE:HG23	3:FF:377:LEU:HD12	1.87	0.56
4:FG:75:VAL:HG23	4:FG:92:LEU:HD12	1.87	0.56
4:FI:306:ASP:OD2	4:FI:309:HIS:ND1	2.39	0.56
4:FI:326:LYS:NZ	3:FJ:208:TYR:O	2.38	0.56
3:FJ:303:CYS:SG	3:FJ:304:ASP:N	2.78	0.56
12:G:127:LYS:HD2	12:G:131:ARG:HH22	1.71	0.56
14:G5:457:TYR:O	14:G5:461:ASP:N	2.27	0.56
14:G6:621:ALA:HB1	14:G6:705:PRO:HD2	1.87	0.56
4:GA:98:ASP:OD1	4:GA:99:ALA:N	2.37	0.56
3:GB:84:ILE:O	3:GB:86:ARG:NH1	2.38	0.56
3:GF:1:MET:HE3	3:GF:46:ARG:NH2	2.21	0.56
3:GH:28:HIS:ND1	3:GH:43:GLN:HB2	2.20	0.56
3:HD:269:GLY:N	3:HD:367:PHE:O	2.38	0.56
4:HG:33:ASP:OD1	4:HG:34:GLY:N	2.38	0.56
4:HI:88:HIS:CE1	4:HI:121:ARG:HH22	2.24	0.56
3:HJ:376:GLU:HA	3:HJ:379:LYS:HG2	1.87	0.56
4:IA:388:TRP:HB3	4:IA:425:LEU:HD11	1.88	0.56
4:IE:70:LEU:HA	4:IE:95:GLY:HA3	1.87	0.56
3:IJ:309:ARG:H	3:IJ:372:THR:HG1	1.50	0.56
4:IM:287:SER:N	4:IM:290:GLU:OE2	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JB:249:ASP:HB3	3:JB:252:LYS:HB2	1.88	0.56
4:JI:104:ALA:HB1	4:JI:413:MET:HE3	1.87	0.56
4:JI:271:THR:HB	4:JI:377:MET:HB2	1.86	0.56
3:JJ:284:LEU:HD23	3:JJ:363:MET:HE2	1.87	0.56
20:K:75:PRO:HD3	20:K:268:MET:HG2	1.86	0.56
20:K:158:LEU:HB3	20:K:161:LYS:HE2	1.88	0.56
4:KA:260:VAL:HG23	4:KA:265:ILE:O	2.06	0.56
4:KE:108:TYR:O	4:KE:112:LYS:NZ	2.29	0.56
4:KE:207:GLU:HB2	4:KE:304:LYS:HZ1	1.70	0.56
3:KF:252:LYS:HG2	4:KG:100:ALA:HA	1.87	0.56
3:KF:268:PRO:HD2	3:KF:301:ALA:HB2	1.86	0.56
4:KG:396:ASP:OD1	4:KG:397:LEU:N	2.39	0.56
3:KH:350:LYS:HE3	4:KI:181:VAL:H	1.70	0.56
22:L1:32:ARG:NH2	22:L1:36:LYS:HG2	2.19	0.56
22:L3:88:VAL:HB	22:L3:89:PRO:HD3	1.86	0.56
3:LD:302:ALA:HB1	3:LD:377:LEU:HD21	1.86	0.56
4:LG:6:SER:HA	4:LG:136:LEU:HB2	1.87	0.56
4:LG:33:ASP:OD1	4:LG:34:GLY:N	2.38	0.56
4:LI:54:SER:N	4:LI:62:VAL:O	2.36	0.56
4:LK:5:ILE:O	4:LK:136:LEU:N	2.35	0.56
4:MC:220:GLU:O	4:MC:221:ARG:NE	2.38	0.56
3:MD:214:THR:HG21	3:MD:273:LEU:HB3	1.85	0.56
4:ME:32:PRO:O	4:ME:85:GLN:NE2	2.39	0.56
3:MF:46:ARG:HH12	4:MG:73:THR:HG23	1.71	0.56
3:MF:139:LEU:HD21	3:MF:170:VAL:HG22	1.87	0.56
4:MI:34:GLY:HA2	4:MI:86:LEU:HD21	1.88	0.56
4:MI:68:VAL:HG12	4:MI:93:ILE:HB	1.87	0.56
4:MI:262:TYR:OH	3:MJ:391:ARG:O	2.24	0.56
4:MI:264:ARG:O	4:MI:266:HIS:ND1	2.36	0.56
3:MJ:120:VAL:O	3:MJ:124:ALA:N	2.36	0.56
4:MM:319:TYR:HB2	4:MM:355:ILE:HD13	1.87	0.56
4:NC:262:TYR:OH	3:ND:391:ARG:O	2.24	0.56
3:ND:309:ARG:HE	3:ND:426:GLN:HE21	1.53	0.56
3:NL:152:ILE:HA	3:NL:155:ILE:HG12	1.87	0.56
3:NL:289:LEU:O	3:NL:293:MET:N	2.30	0.56
3:OB:57:GLY:HA3	37:YD:60:SER:HB3	1.88	0.56
3:OD:286:VAL:HG21	3:OD:325:GLU:HG3	1.88	0.56
4:OI:22:GLU:O	4:OI:26:LEU:HD23	2.05	0.56
4:OI:245:ASP:O	4:OI:356:ASN:ND2	2.38	0.56
27:P:146:LEU:HD12	27:P:148:PHE:H	1.71	0.56
29:P1:209:LEU:N	29:P1:223:GLY:O	2.31	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:P3:167:SER:OG	29:P3:217:ASP:OD2	2.22	0.56
4:PA:171:ILE:HD12	4:PA:204:VAL:HG13	1.87	0.56
4:PM:49:PHE:O	4:PM:53:PHE:N	2.38	0.56
4:PM:207:GLU:HB2	4:PM:304:LYS:NZ	2.21	0.56
30:Q3:1456:ARG:O	30:Q3:1460:THR:HG23	2.05	0.56
3:QB:289:LEU:HD21	3:QB:363:MET:HB3	1.87	0.56
4:QM:388:TRP:HB3	4:QM:425:LEU:HD11	1.86	0.56
3:RB:47:ILE:HG13	3:RB:51:TYR:HB2	1.88	0.56
3:RB:328:GLU:OE1	3:RB:332:ASN:ND2	2.38	0.56
4:RE:392:ASP:OD1	4:RE:393:HIS:N	2.37	0.56
3:RL:309:ARG:H	3:RL:372:THR:HG1	1.51	0.56
3:SB:277:GLY:O	3:SB:280:GLN:NE2	2.38	0.56
3:SF:305:PRO:HB2	3:SF:310:TYR:HE1	1.69	0.56
3:SL:10:GLY:H	3:SL:147:MET:HE3	1.69	0.56
3:SL:111:GLU:HG2	3:SL:112:LEU:HD12	1.87	0.56
4:SM:423:GLU:HA	4:SM:426:ALA:HB3	1.87	0.56
4:TI:287:SER:OG	4:TI:290:GLU:OE1	2.22	0.56
3:TN:214:THR:HG21	3:TN:273:LEU:HB3	1.88	0.56
4:UA:49:PHE:O	4:UA:53:PHE:N	2.38	0.56
4:UC:91:GLN:HG3	4:UC:121:ARG:HH21	1.69	0.56
3:UD:28:HIS:O	3:UD:43:GLN:NE2	2.37	0.56
3:UD:175:VAL:HG22	3:UD:177:ASP:H	1.70	0.56
4:UE:161:TYR:O	4:UE:166:LYS:NZ	2.37	0.56
4:UE:433:GLU:O	4:UE:437:VAL:N	2.34	0.56
3:UF:182:PRO:HB2	3:UF:388:MET:HE1	1.87	0.56
3:UF:322:SER:OG	3:UF:324:LYS:NZ	2.38	0.56
3:UH:323:MET:SD	3:UH:323:MET:N	2.77	0.56
39:UL:501:GTP:O3G	39:UL:501:GTP:O3'	2.17	0.56
4:VA:98:ASP:O	4:VA:105:ARG:NH2	2.33	0.56
3:VB:15:GLN:HB2	3:VB:222:TYR:HE2	1.71	0.56
4:VC:32:PRO:O	4:VC:85:GLN:NE2	2.39	0.56
3:VD:379:LYS:O	3:VD:382:SER:OG	2.18	0.56
4:VI:119:LEU:HD23	4:VI:122:ILE:HD11	1.86	0.56
4:WC:68:VAL:HG12	4:WC:93:ILE:HB	1.86	0.56
4:WG:308:ARG:NH2	4:WG:342:GLN:OE1	2.36	0.56
3:WJ:5:VAL:HG23	3:WJ:130:LEU:HD21	1.87	0.56
3:WJ:286:VAL:HG21	3:WJ:325:GLU:HG3	1.87	0.56
34:XA:27:LYS:HE2	34:XA:59:ILE:HD13	1.87	0.56
34:XG:101:ARG:NE	34:XG:116:PRO:O	2.39	0.56
37:YJ:71:ASP:O	37:YJ:75:GLU:N	2.37	0.56
37:YQ:99:LYS:HZ1	37:YQ:147:PHE:HB3	1.68	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:138:LYS:O	2:A2:142:ILE:HG12	2.05	0.56
2:A3:138:LYS:O	2:A3:142:ILE:HG12	2.06	0.56
2:A3:282:LEU:HB2	2:A3:372:LEU:HD22	1.87	0.56
3:AB:246:LEU:HB2	3:AB:352:ALA:HB1	1.87	0.56
4:AG:216:ASN:ND2	4:AG:275:VAL:O	2.38	0.56
4:AG:311:LYS:HG2	4:AG:342:GLN:HG2	1.87	0.56
4:AI:234:ILE:HD11	4:AI:272:TYR:HB2	1.86	0.56
4:AM:372:GLN:OE1	13:G3:89:HIS:HB2	2.06	0.56
5:B2:281:TRP:NE1	5:B2:285:ASN:HD21	2.03	0.56
5:B3:328:GLU:OE1	5:B4:218:TRP:NE1	2.38	0.56
5:B7:301:GLU:O	5:B7:305:ARG:NE	2.36	0.56
5:B9:329:LEU:O	5:B9:331:ARG:NH1	2.38	0.56
3:BB:173:PRO:O	3:BB:380:ARG:NH2	2.39	0.56
4:BC:207:GLU:HB2	4:BC:304:LYS:HZ1	1.70	0.56
3:BD:247:ASN:HB3	3:BD:252:LYS:HE3	1.86	0.56
4:BE:256:GLN:O	4:BE:260:VAL:HG12	2.06	0.56
4:BG:208:ALA:H	4:BG:304:LYS:HZ1	1.54	0.56
4:BG:320:ARG:N	4:BG:374:ALA:O	2.31	0.56
4:BK:9:VAL:HG11	4:BK:150:ALA:HB2	1.86	0.56
4:BM:244:PHE:HB2	4:BM:356:ASN:HD21	1.71	0.56
6:C:208:PRO:HA	6:C:213:ALA:HB1	1.87	0.56
7:C7:406:ARG:NH1	7:C7:412:CYS:H	2.04	0.56
4:CE:208:ALA:H	4:CE:304:LYS:NZ	2.03	0.56
4:CM:154:MET:HE1	4:CM:197:HIS:HB2	1.88	0.56
6:D:116:LEU:HA	6:D:179:ALA:HA	1.86	0.56
8:D9:171:TYR:CZ	11:Fh:395:MET:HG2	2.41	0.56
4:DC:66:VAL:HG22	4:DC:91:GLN:HG3	1.87	0.56
3:DD:306:ARG:NE	3:DD:306:ARG:O	2.39	0.56
3:DF:12:CYS:HB3	39:DF:501:GTP:H5'	1.88	0.56
4:DG:49:PHE:O	4:DG:53:PHE:N	2.36	0.56
3:DH:174:LYS:HG3	3:DH:175:VAL:HG13	1.87	0.56
4:DK:46:ASP:OD1	4:DK:50:ASN:ND2	2.35	0.56
4:DK:172:TYR:N	4:DK:204:VAL:O	2.33	0.56
4:DK:316:CYS:HB3	4:DK:378:LEU:HB2	1.86	0.56
3:EB:269:GLY:N	3:EB:367:PHE:O	2.39	0.56
4:EG:214:ARG:NH1	4:EG:215:ARG:HG3	2.21	0.56
3:EH:305:PRO:HB2	3:EH:310:TYR:HE1	1.70	0.56
4:EI:433:GLU:O	4:EI:437:VAL:N	2.31	0.56
4:EK:192:HIS:HA	4:EK:195:LEU:HD23	1.87	0.56
4:EK:256:GLN:HE22	3:EL:397:TRP:HE1	1.52	0.56
11:F2:439:ASP:HA	11:F2:442:GLN:HE21	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:F6:239:GLN:NE2	11:F6:243:ASN:OD1	2.38	0.56
11:F9:450:ARG:NE	11:F9:454:GLU:OE2	2.38	0.56
4:FA:254:GLU:OE1	4:FA:254:GLU:N	2.37	0.56
3:FB:415:MET:O	3:FB:419:VAL:HG23	2.06	0.56
3:FD:309:ARG:HE	3:FD:426:GLN:NE2	2.00	0.56
3:FF:252:LYS:HD3	4:FG:100:ALA:HA	1.87	0.56
3:FF:268:PRO:HD2	3:FF:301:ALA:HB2	1.86	0.56
3:FH:83:GLN:O	3:FH:86:ARG:NH2	2.38	0.56
3:FH:289:LEU:O	3:FH:293:MET:N	2.31	0.56
11:Fa:403:PRO:HD3	11:Fb:263:ILE:HD11	1.88	0.56
11:Fb:468:LYS:O	11:Fb:472:MET:HG3	2.06	0.56
11:Fg:226:GLN:O	11:Fg:230:ARG:HD3	2.05	0.56
11:Fj:315:ILE:HA	11:Fj:318:ARG:HE	1.69	0.56
11:Fj:350:GLU:HB2	11:Fj:462:LEU:HD22	1.88	0.56
13:G1:35:ASN:O	28:O1:18:TYR:OH	2.21	0.56
13:G2:391:GLU:OE1	13:G2:391:GLU:N	2.38	0.56
13:G3:13:PRO:HA	3:LL:227:HIS:CG	2.41	0.56
13:G3:381:LEU:HD12	13:G3:382:PRO:HD2	1.86	0.56
14:G4:77:GLN:HB3	14:G4:108:LEU:HD12	1.87	0.56
14:G5:350:LYS:NZ	15:H4:259:CYS:SG	2.78	0.56
14:G6:404:ARG:HD3	14:G6:412:THR:HG23	1.86	0.56
3:GB:269:GLY:HA2	3:GB:300:MET:HE1	1.88	0.56
3:GB:375:GLN:HA	3:GB:378:PHE:CZ	2.41	0.56
4:GE:214:ARG:NH1	4:GE:215:ARG:HG3	2.21	0.56
3:GF:302:ALA:HB1	3:GF:377:LEU:HD21	1.86	0.56
4:GI:30:ILE:HG23	4:GI:61:HIS:CD2	2.40	0.56
3:GL:295:ASP:HB2	3:GL:298:ASN:HB2	1.88	0.56
4:HE:154:MET:HE1	4:HE:197:HIS:HB2	1.88	0.56
4:HE:178:SER:OG	4:HE:180:ALA:O	2.24	0.56
3:HF:268:PRO:HD2	3:HF:301:ALA:HB2	1.88	0.56
4:HK:272:TYR:CZ	4:HK:274:PRO:HG2	2.40	0.56
17:I3:48:TYR:O	17:I3:51:ASP:N	2.37	0.56
17:I3:53:ARG:O	17:I3:57:LEU:N	2.31	0.56
3:IB:272:PRO:HA	3:IB:292:GLN:OE1	2.05	0.56
4:IE:286:LEU:HD11	4:IE:373:ARG:H	1.70	0.56
4:IE:401:LYS:C	4:IE:402:ARG:HD3	2.30	0.56
3:IF:139:LEU:N	3:IF:168:SER:OG	2.38	0.56
4:IG:206:ASN:HA	4:IG:209:ILE:HD12	1.88	0.56
3:IH:357:PRO:O	3:IH:359:ARG:NH1	2.34	0.56
3:IH:423:GLN:O	3:IH:427:ASP:N	2.39	0.56
3:IL:175:VAL:HG22	3:IL:177:ASP:H	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:IM:301:GLN:OE1	4:IM:301:GLN:N	2.39	0.56
4:IM:319:TYR:HB2	4:IM:355:ILE:HD13	1.87	0.56
19:J1:121:MET:HE3	19:J1:131:ALA:HB2	1.86	0.56
19:J1:146:ASN:HA	19:J1:149:TRP:HD1	1.70	0.56
19:J2:127:THR:HB	19:J2:164:THR:HG21	1.88	0.56
4:JA:229:ARG:HE	4:JA:368:LEU:HD22	1.71	0.56
3:JB:117:LEU:HD11	3:JB:154:LYS:HD2	1.88	0.56
4:JC:120:ASP:OD1	4:JC:123:ARG:NH2	2.38	0.56
3:JF:322:SER:OG	3:JF:323:MET:SD	2.64	0.56
4:JG:166:LYS:N	4:JG:199:ASP:OD2	2.39	0.56
4:JI:393:HIS:CE1	4:JI:394:LYS:HE3	2.40	0.56
3:JL:7:LEU:HD13	3:JL:64:VAL:HB	1.87	0.56
21:K3:242:LEU:O	21:K3:243:GLN:HB3	2.05	0.56
21:K3:363:ARG:O	21:K3:366:LYS:HG2	2.05	0.56
3:KD:9:ALA:HB3	3:KD:137:HIS:HB3	1.86	0.56
3:KF:70:PRO:HA	3:KF:73:MET:HE3	1.86	0.56
4:KG:52:PHE:HZ	4:KG:239:THR:HB	1.70	0.56
3:KH:11:GLN:HG3	39:KH:501:GTP:PA	2.44	0.56
4:KK:172:TYR:N	4:KK:204:VAL:O	2.37	0.56
3:KL:209:ASP:O	3:KL:213:ARG:HG2	2.05	0.56
4:LE:76:ASP:OD1	4:LE:79:ARG:NH1	2.38	0.56
3:LF:323:MET:HE3	4:LG:224:TYR:CD1	2.41	0.56
4:LK:154:MET:HA	4:LK:157:LEU:HG	1.86	0.56
3:LL:398:TYR:HB3	3:LL:403:MET:CB	2.35	0.56
4:ME:33:ASP:OD1	4:ME:34:GLY:N	2.38	0.56
4:MK:34:GLY:HA2	4:MK:86:LEU:HD21	1.87	0.56
3:ML:304:ASP:H	28:O3:9:GLN:HG3	1.71	0.56
4:NA:67:PHE:HB2	4:NA:92:LEU:HD13	1.86	0.56
4:NA:144:GLY:N	39:NA:501:GTP:O2B	2.38	0.56
4:NC:245:ASP:O	4:NC:356:ASN:ND2	2.38	0.56
4:NK:49:PHE:O	4:NK:53:PHE:N	2.35	0.56
4:OC:33:ASP:OD1	4:OC:34:GLY:N	2.37	0.56
3:OD:3:GLU:OE2	3:OD:127:CYS:HB2	2.06	0.56
4:OE:102:ASN:ND2	4:OE:411:GLU:OE2	2.35	0.56
4:OE:316:CYS:HB3	4:OE:378:LEU:HB3	1.88	0.56
4:OE:398:MET:HA	4:OE:401:LYS:HG2	1.86	0.56
3:OF:194:GLU:OE1	3:OF:195:ASN:ND2	2.38	0.56
3:OF:380:ARG:O	3:OF:384:GLN:HG2	2.04	0.56
4:OG:88:HIS:HB3	4:OG:91:GLN:HB2	1.86	0.56
3:OH:132:GLY:HA2	3:OH:162:ARG:HB3	1.87	0.56
3:OH:324:LYS:HE2	4:OI:222:PRO:HG2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:OJ:385:PHE:HZ	3:OJ:408:PHE:HB3	1.70	0.56
3:OJ:398:TYR:HB3	3:OJ:403:MET:HB2	1.87	0.56
3:OL:380:ARG:O	3:OL:384:GLN:HG2	2.06	0.56
3:PD:12:CYS:O	3:PD:15:GLN:NE2	2.38	0.56
4:PG:6:SER:HA	4:PG:136:LEU:HB2	1.88	0.56
4:PI:12:ALA:HB1	39:PI:501:GTP:C2	2.40	0.56
4:PK:317:MET:HE1	4:PK:377:MET:HG3	1.88	0.56
3:PL:13:GLY:HA2	3:PL:16:ILE:HB	1.87	0.56
4:PM:252:LEU:HD13	4:PM:255:PHE:HD2	1.70	0.56
27:Q:19:ARG:HD2	27:Q:20:TYR:N	2.21	0.56
3:QD:7:LEU:HD13	3:QD:64:VAL:HB	1.87	0.56
3:QD:152:ILE:HD12	3:QD:155:ILE:HD11	1.88	0.56
4:QG:119:LEU:HD23	4:QG:122:ILE:HD12	1.88	0.56
4:QG:264:ARG:O	4:QG:266:HIS:ND1	2.35	0.56
3:QH:131:GLN:HA	3:QH:251:ARG:HH12	1.70	0.56
3:QJ:39:ASP:OD1	3:QJ:43:GLN:NE2	2.38	0.56
4:QM:264:ARG:O	4:QM:266:HIS:ND1	2.39	0.56
4:RC:91:GLN:HG3	4:RC:121:ARG:HH21	1.69	0.56
3:RD:39:ASP:OD1	3:RD:43:GLN:NE2	2.39	0.56
3:RF:309:ARG:N	3:RF:372:THR:OG1	2.29	0.56
4:RM:88:HIS:HB3	4:RM:91:GLN:HG3	1.88	0.56
4:SC:154:MET:HE3	4:SC:194:THR:HG22	1.88	0.56
3:SD:211:CYS:HA	3:SD:215:LEU:HB2	1.88	0.56
4:SE:287:SER:OG	4:SE:290:GLU:OE1	2.20	0.56
4:SG:30:ILE:HA	4:SG:36:MET:HE1	1.86	0.56
4:SG:329:ASN:OD1	4:SG:330:ALA:N	2.38	0.56
3:SH:305:PRO:HB2	3:SH:310:TYR:HE1	1.70	0.56
4:SI:33:ASP:OD1	4:SI:34:GLY:N	2.38	0.56
4:SI:203:MET:N	4:SI:203:MET:SD	2.78	0.56
3:TB:211:CYS:HA	3:TB:215:LEU:HB2	1.86	0.56
4:TE:396:ASP:OD1	4:TE:397:LEU:N	2.39	0.56
3:TH:247:ASN:HB3	3:TH:252:LYS:HG2	1.88	0.56
3:TJ:214:THR:HG21	3:TJ:273:LEU:HB3	1.86	0.56
4:TK:208:ALA:N	4:TK:304:LYS:HZ1	2.01	0.56
4:TK:271:THR:HB	4:TK:377:MET:HE2	1.87	0.56
3:TL:151:LEU:HD13	3:TL:154:LYS:HD2	1.88	0.56
4:TM:208:ALA:H	4:TM:304:LYS:HZ1	1.51	0.56
4:UA:371:VAL:HG11	4:UA:374:ALA:HB2	1.88	0.56
4:UC:89:PRO:HD2	4:VC:280:LYS:HZ3	1.71	0.56
3:UF:46:ARG:HH12	4:UG:73:THR:HG23	1.70	0.56
3:UF:218:THR:OG1	3:UF:219:THR:N	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UF:290:THR:HG21	3:UF:329:GLN:HB3	1.87	0.56
3:UH:375:GLN:HA	3:UH:378:PHE:CZ	2.40	0.56
3:UH:415:MET:O	3:UH:419:VAL:HG23	2.06	0.56
4:UK:88:HIS:CE1	4:UK:121:ARG:HH22	2.24	0.56
33:V:522:LEU:HB3	33:V:526:ARG:HH22	1.70	0.56
3:WD:322:SER:N	3:WD:325:GLU:OE2	2.38	0.56
4:WI:245:ASP:O	4:WI:356:ASN:ND2	2.39	0.56
35:XM:158:HIS:O	35:XM:162:SER:OG	2.17	0.56
37:YC:98:GLU:HA	37:YC:101:LYS:HD2	1.87	0.56
37:YM:82:HIS:NE2	37:YM:86:LEU:HD11	2.21	0.56
37:YS:130:ALA:HA	37:YS:134:TYR:HB2	1.88	0.56
36:Z:299:LYS:HD2	36:Z:300:ARG:H	1.70	0.56
2:A3:330:ARG:NH1	2:A4:212:VAL:O	2.39	0.56
3:AB:28:HIS:ND1	3:AB:43:GLN:HB2	2.21	0.56
3:AB:139:LEU:N	3:AB:168:SER:OG	2.39	0.56
4:AC:172:TYR:N	4:AC:204:VAL:O	2.35	0.56
4:AE:283:HIS:CE1	4:ME:88:HIS:HA	2.40	0.56
4:AM:214:ARG:NH1	4:AM:215:ARG:HG3	2.21	0.56
5:B2:305:ARG:HA	5:B2:308:MET:HE2	1.88	0.56
5:B8:283:GLU:HB3	5:B8:373:ILE:HG21	1.88	0.56
3:BD:317:PHE:O	3:BD:354:CYS:N	2.30	0.56
3:BF:218:THR:OG1	3:BF:219:THR:N	2.39	0.56
4:BG:70:LEU:HD13	4:BG:95:GLY:HA3	1.87	0.56
4:BG:427:ALA:HA	4:BG:430:LYS:HG2	1.86	0.56
3:BH:166:THR:OG1	3:BH:198:GLU:O	2.23	0.56
3:BL:262:ARG:HD2	3:BL:421:GLU:HG3	1.86	0.56
3:BL:322:SER:N	3:BL:325:GLU:OE2	2.38	0.56
6:C:29:ILE:HB	6:C:96:ASP:HB3	1.87	0.56
7:C7:105:VAL:O	7:C7:108:GLN:NE2	2.38	0.56
7:C7:283:TYR:CD1	7:C8:394:LYS:HD3	2.39	0.56
3:CD:156:ARG:NH1	3:CD:195:ASN:O	2.39	0.56
4:CE:108:TYR:O	4:CE:112:LYS:NZ	2.28	0.56
3:CH:350:LYS:HZ1	4:CI:181:VAL:H	1.52	0.56
3:CJ:130:LEU:HB2	3:CJ:162:ARG:NH1	2.21	0.56
4:CM:333:ALA:HA	4:CM:336:LYS:HD2	1.88	0.56
7:Cb:296:VAL:O	7:Cb:299:THR:OG1	2.15	0.56
8:D2:83:GLN:O	8:D2:87:GLU:HG2	2.05	0.56
8:D2:113:TRP:HA	8:D2:116:GLU:CD	2.30	0.56
8:D2:180:THR:O	8:D2:184:ARG:NE	2.32	0.56
4:DA:395:PHE:HD2	4:DA:422:ARG:HH11	1.54	0.56
4:DE:272:TYR:CZ	4:DE:274:PRO:HG2	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DG:161:TYR:O	4:DG:166:LYS:NZ	2.29	0.56
3:DH:11:GLN:HE21	39:DH:501:GTP:H3'	1.71	0.56
3:DJ:273:LEU:H	3:DJ:292:GLN:HE22	1.54	0.56
3:DL:12:CYS:SG	3:DL:13:GLY:N	2.79	0.56
3:DL:215:LEU:HD11	3:DL:228:LEU:HD11	1.86	0.56
4:EE:172:TYR:HB2	4:EE:203:MET:HB3	1.87	0.56
4:EE:326:LYS:NZ	3:EF:208:TYR:O	2.39	0.56
3:EF:2:ARG:HA	3:EF:129:CYS:O	2.05	0.56
4:EI:35:GLN:OE1	14:G6:712:TYR:OH	2.24	0.56
9:F:346:ARG:HD2	4:IK:372:GLN:H	1.71	0.56
11:F2:426:THR:HG21	11:F3:131:ILE:HD11	1.87	0.56
11:F6:352:ASP:OD2	11:F6:356:LYS:NZ	2.35	0.56
11:F7:397:ALA:O	11:F7:400:THR:OG1	2.22	0.56
11:F8:335:GLN:O	11:F8:339:THR:HG23	2.06	0.56
11:F9:382:ILE:HG13	11:F9:430:LEU:HD13	1.88	0.56
3:FB:324:LYS:NZ	4:FC:222:PRO:O	2.37	0.56
4:FE:88:HIS:HB3	4:FE:91:GLN:HB3	1.87	0.56
4:FE:316:CYS:N	4:FE:378:LEU:O	2.32	0.56
4:FI:286:LEU:HD11	4:FI:372:GLN:H	1.70	0.56
3:FJ:161:ASP:O	3:FJ:251:ARG:NH2	2.38	0.56
4:FK:234:ILE:HD11	4:FK:272:TYR:HB2	1.88	0.56
11:Fb:433:ARG:CZ	11:Fc:120:SER:HA	2.35	0.56
11:Fc:167:ASN:OD1	11:Fc:243:ASN:ND2	2.38	0.56
11:Fg:196:TYR:O	11:Fg:200:LYS:NZ	2.27	0.56
11:Fl:185:ASN:HA	11:Fl:188:LEU:HD12	1.88	0.56
11:Fm:318:ARG:NH1	11:Fm:322:GLU:OE2	2.38	0.56
13:G1:429:PRO:HA	14:G5:644:TYR:CZ	2.40	0.56
14:G5:488:LYS:NZ	14:G5:501:TYR:O	2.37	0.56
3:GD:149:THR:HG21	3:GD:188:SER:HA	1.87	0.56
3:GD:406:MET:O	3:GD:409:THR:OG1	2.20	0.56
4:GE:51:THR:HG23	4:GE:52:PHE:CD2	2.41	0.56
4:GE:98:ASP:O	4:GE:105:ARG:NH2	2.32	0.56
4:GE:427:ALA:HA	4:GE:430:LYS:HG2	1.86	0.56
4:GI:76:ASP:HA	4:GI:79:ARG:HG2	1.88	0.56
4:GK:316:CYS:HB3	4:GK:378:LEU:HB2	1.88	0.56
15:H1:18:PRO:HD3	15:H1:35:TYR:CE2	2.40	0.56
3:HD:139:LEU:N	3:HD:168:SER:OG	2.38	0.56
4:HE:316:CYS:N	4:HE:378:LEU:O	2.36	0.56
3:HL:318:ARG:HD3	3:HL:358:PRO:HG3	1.87	0.56
3:ID:6:HIS:HE1	3:ID:8:GLN:OE1	1.89	0.56
3:ID:8:GLN:HB3	3:ID:65:LEU:HA	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ID:269:GLY:N	3:ID:367:PHE:O	2.39	0.56
4:IG:125:LEU:HD13	4:IG:128:LEU:HD21	1.86	0.56
4:II:265:ILE:HD12	4:II:432:TYR:CE1	2.40	0.56
4:IK:104:ALA:HB1	4:IK:413:MET:HE3	1.88	0.56
4:IK:423:GLU:HA	4:IK:426:ALA:HB3	1.88	0.56
18:J:176:MET:HE2	4:KI:29:GLY:N	2.20	0.56
3:JB:250:LEU:O	3:JB:254:ALA:N	2.33	0.56
3:JF:11:GLN:HE21	39:JF:501:GTP:H3'	1.70	0.56
4:JI:146:GLY:N	39:JI:501:GTP:O2B	2.39	0.56
4:JK:273:ALA:HB2	4:JK:295:CYS:HB3	1.88	0.56
21:K3:402:GLN:O	21:K3:405:VAL:N	2.29	0.56
21:K4:46:MET:HE2	21:K4:108:ARG:HH11	1.70	0.56
4:KA:137:ILE:HB	4:KA:168:GLU:HA	1.87	0.56
3:KB:194:GLU:OE1	3:KB:195:ASN:ND2	2.39	0.56
4:KC:272:TYR:CZ	4:KC:274:PRO:HG2	2.40	0.56
4:KI:46:ASP:OD1	4:KI:50:ASN:ND2	2.39	0.56
20:L:73:VAL:O	20:L:268:MET:N	2.37	0.56
22:L3:76:LYS:HB2	4:LI:416:GLY:HA3	1.87	0.56
22:L3:124:ILE:HG21	22:L3:133:LYS:HG3	1.88	0.56
22:L4:62:PHE:CD2	22:L4:63:LEU:HG	2.41	0.56
4:LA:53:PHE:O	4:LA:64:ARG:NH1	2.39	0.56
4:LA:68:VAL:HG12	4:LA:93:ILE:HB	1.87	0.56
3:LB:247:ASN:HB3	3:LB:252:LYS:HG2	1.86	0.56
4:LC:6:SER:HA	4:LC:136:LEU:HB2	1.87	0.56
3:LF:84:ILE:O	3:LF:86:ARG:NH1	2.38	0.56
3:LF:246:LEU:HB2	3:LF:352:ALA:HB1	1.88	0.56
4:LI:52:PHE:HZ	4:LI:239:THR:HB	1.70	0.56
3:LJ:8:GLN:HB3	3:LJ:65:LEU:HA	1.88	0.56
4:LK:178:SER:OG	4:LK:180:ALA:O	2.24	0.56
3:LL:372:THR:HG21	3:LL:426:GLN:HG3	1.86	0.56
3:MB:375:GLN:HA	3:MB:378:PHE:CZ	2.41	0.56
3:MF:194:GLU:OE1	3:MF:195:ASN:ND2	2.38	0.56
3:MH:379:LYS:O	3:MH:382:SER:OG	2.21	0.56
4:MI:236:SER:O	4:MI:243:ARG:NH2	2.31	0.56
4:MK:36:MET:HE3	4:MK:36:MET:HA	1.88	0.56
4:MK:396:ASP:OD1	4:MK:397:LEU:N	2.39	0.56
3:ML:211:CYS:HA	3:ML:215:LEU:HD12	1.87	0.56
4:NC:396:ASP:OD1	4:NC:397:LEU:N	2.38	0.56
4:NI:401:LYS:C	4:NI:402:ARG:HD3	2.31	0.56
4:NK:154:MET:HA	4:NK:157:LEU:HG	1.87	0.56
4:OE:433:GLU:O	4:OE:437:VAL:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:OH:406:MET:O	3:OH:409:THR:OG1	2.20	0.56
4:OI:187:SER:O	4:OI:190:THR:OG1	2.21	0.56
29:P1:570:LYS:HB2	29:P1:572:TRP:CZ2	2.40	0.56
29:P3:398:ILE:HD11	29:P3:420:VAL:HG11	1.87	0.56
4:PC:271:THR:HA	4:PC:302:MET:HE1	1.86	0.56
3:PD:357:PRO:HB3	3:PD:362:LYS:HA	1.86	0.56
3:PF:28:HIS:ND1	3:PF:43:GLN:HB2	2.20	0.56
3:PH:379:LYS:O	3:PH:382:SER:OG	2.17	0.56
39:PH:501:GTP:O3G	39:PH:501:GTP:O3'	2.22	0.56
4:PI:172:TYR:N	4:PI:204:VAL:O	2.30	0.56
4:PM:427:ALA:HA	4:PM:430:LYS:HG2	1.88	0.56
30:Q2:1357:THR:OG1	30:Q2:1394:PHE:O	2.16	0.56
30:Q2:1461:TYR:CE2	30:Q2:1477:VAL:HB	2.40	0.56
3:QD:41:ASP:HB3	37:YF:20:GLN:HG2	1.88	0.56
4:QE:122:ILE:O	4:QE:126:ALA:N	2.37	0.56
4:QE:125:LEU:HD13	4:QE:128:LEU:HD21	1.86	0.56
3:QJ:289:LEU:HD21	3:QJ:363:MET:HB3	1.88	0.56
3:QL:33:THR:O	3:QL:58:LYS:NZ	2.38	0.56
3:RF:357:PRO:HB3	3:RF:362:LYS:HA	1.86	0.56
3:RJ:415:MET:O	3:RJ:419:VAL:HG23	2.06	0.56
4:RK:9:VAL:HA	4:RK:68:VAL:HG23	1.88	0.56
4:RK:319:TYR:N	4:RK:354:GLY:O	2.39	0.56
32:S:385:LYS:HE2	32:S:387:HIS:CE1	2.41	0.56
4:SE:51:THR:HG23	4:SE:52:PHE:CD2	2.41	0.56
4:SG:272:TYR:CZ	4:SG:274:PRO:HG2	2.40	0.56
4:SG:392:ASP:OD1	4:SG:393:HIS:N	2.38	0.56
3:SJ:215:LEU:O	3:SJ:276:ARG:NH1	2.38	0.56
3:SJ:322:SER:OG	3:SJ:323:MET:SD	2.64	0.56
4:TK:295:CYS:HB2	4:TK:377:MET:HE3	1.88	0.56
3:TL:14:ASN:HD21	3:TL:67:ASP:HB2	1.71	0.56
3:UB:175:VAL:HG22	3:UB:177:ASP:H	1.70	0.56
4:UK:144:GLY:N	39:UK:501:GTP:O2B	2.39	0.56
4:UK:287:SER:OG	4:UK:290:GLU:OE1	2.23	0.56
3:UL:323:MET:SD	3:UL:323:MET:N	2.74	0.56
3:VB:292:GLN:O	3:VB:298:ASN:ND2	2.39	0.56
4:VC:295:CYS:HB2	4:VC:377:MET:HE3	1.87	0.56
33:W:193:ASP:OD1	33:W:194:MET:N	2.39	0.56
4:WA:33:ASP:OD1	4:WA:34:GLY:N	2.38	0.56
4:WA:423:GLU:HA	4:WA:426:ALA:HB3	1.88	0.56
3:WB:216:LYS:O	3:WB:276:ARG:NH2	2.38	0.56
4:WE:288:VAL:HG21	4:WE:328:VAL:HG22	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WG:316:CYS:HB3	4:WG:378:LEU:HB2	1.86	0.56
4:WK:25:CYS:HB2	4:WK:30:ILE:HB	1.88	0.56
34:XE:79:ILE:HD11	34:XE:166:TYR:HE1	1.71	0.56
35:XK:180:ILE:HG12	35:XK:184:PHE:CE2	2.40	0.56
35:XM:57:ARG:HB3	35:XM:102:GLU:HG3	1.86	0.56
36:Y:145:ARG:O	36:Y:150:HIS:ND1	2.39	0.56
37:YO:8:LEU:HD11	37:YO:145:LEU:HG	1.86	0.56
36:Z:299:LYS:HD2	36:Z:300:ARG:N	2.20	0.56
36:Z:317:GLU:HA	36:Z:320:ARG:HG2	1.87	0.56
1:A:202:LYS:O	1:A:206:TYR:N	2.39	0.56
2:A1:133:GLU:O	2:A1:137:GLN:HG2	2.06	0.56
3:AF:170:VAL:N	3:AF:202:ILE:O	2.31	0.56
3:AF:309:ARG:H	3:AF:372:THR:HG1	1.51	0.56
4:AG:188:ILE:HG13	4:AG:421:ALA:HB1	1.86	0.56
3:AJ:12:CYS:HA	39:AJ:501:GTP:N2	2.20	0.56
4:AK:53:PHE:O	4:AK:64:ARG:NH1	2.39	0.56
5:B1:300:LEU:HD22	5:B1:356:LEU:HG	1.88	0.56
5:B3:43:ARG:O	5:B3:46:ARG:HG2	2.05	0.56
5:B3:293:LEU:HD22	5:B3:363:LEU:HD13	1.87	0.56
3:BB:385:PHE:HA	3:BB:388:MET:HE2	1.86	0.56
3:BD:246:LEU:HB2	3:BD:352:ALA:HB1	1.87	0.56
3:BF:285:THR:O	3:BF:288:GLU:HG3	2.05	0.56
4:BG:216:ASN:ND2	4:BG:275:VAL:O	2.39	0.56
3:BH:28:HIS:CE1	3:BH:43:GLN:HG3	2.41	0.56
3:BL:132:GLY:HA3	3:BL:163:ILE:H	1.69	0.56
3:BL:211:CYS:HA	3:BL:215:LEU:HB2	1.87	0.56
3:BL:372:THR:HB	3:BL:375:GLN:HE22	1.71	0.56
6:C:117:ILE:N	6:C:178:ILE:O	2.38	0.56
7:C3:389:LYS:O	7:C3:393:LEU:HG	2.06	0.56
7:C7:284:PHE:CZ	7:C8:401:ASP:HB2	2.40	0.56
3:CB:317:PHE:HB3	3:CB:321:MET:HE3	1.87	0.56
4:CG:220:GLU:CD	4:CG:221:ARG:HG2	2.31	0.56
3:CH:48:ASN:O	3:CH:62:ARG:NH2	2.27	0.56
7:Cb:411:LEU:HG	7:Cc:293:THR:HA	1.88	0.56
6:D:178:ILE:HG22	6:D:180:MET:HE3	1.88	0.56
8:D9:360:ARG:NH2	8:D9:369:CYS:SG	2.79	0.56
4:DA:144:GLY:N	39:DA:501:GTP:O2B	2.36	0.56
4:DA:274:PRO:HG3	4:DA:374:ALA:HA	1.87	0.56
3:DB:250:LEU:O	3:DB:254:ALA:N	2.32	0.56
4:DE:34:GLY:HA2	4:DE:86:LEU:HD21	1.88	0.56
3:DH:375:GLN:HA	3:DH:378:PHE:CZ	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DI:104:ALA:HB1	4:DI:413:MET:HE3	1.88	0.56
4:DK:22:GLU:O	4:DK:26:LEU:HD23	2.06	0.56
9:E:429:VAL:HG22	3:IB:362:LYS:HE2	1.87	0.56
4:EA:50:ASN:O	4:EA:64:ARG:NH1	2.38	0.56
3:EB:178:THR:HB	3:EB:181:GLU:HB2	1.86	0.56
4:EC:260:VAL:HG23	4:EC:265:ILE:O	2.05	0.56
3:ED:380:ARG:O	3:ED:384:GLN:HG2	2.05	0.56
4:EE:272:TYR:HE1	4:EE:374:ALA:HB1	1.70	0.56
4:EG:401:LYS:C	4:EG:402:ARG:HD3	2.31	0.56
4:EI:295:CYS:HB2	4:EI:377:MET:HE3	1.86	0.56
4:EK:154:MET:HE3	4:EK:194:THR:HG22	1.86	0.56
4:EK:264:ARG:O	4:EK:266:HIS:ND1	2.34	0.56
3:EL:149:THR:HB	3:EL:191:GLN:HE21	1.69	0.56
3:EL:235:GLY:HA2	3:EL:318:ARG:HH21	1.71	0.56
3:EL:383:GLU:OE1	3:EL:383:GLU:N	2.28	0.56
11:F1:363:LYS:HG2	11:F2:110:ARG:NH2	2.21	0.56
11:F7:136:GLU:O	11:F7:139:SER:OG	2.23	0.56
11:F8:214:ASN:O	11:F8:218:GLU:HG2	2.05	0.56
3:FF:322:SER:N	3:FF:325:GLU:OE2	2.38	0.56
3:FJ:20:PHE:CE1	3:FJ:233:MET:HG3	2.40	0.56
4:FK:254:GLU:OE1	4:FK:254:GLU:N	2.37	0.56
3:FL:132:GLY:HA2	3:FL:162:ARG:HB3	1.86	0.56
11:Fa:315:ILE:HG13	11:Fa:318:ARG:NH2	2.20	0.56
11:Fb:411:VAL:HG23	11:Fb:412:PRO:HD3	1.87	0.56
11:Ff:356:LYS:O	11:Ff:359:THR:OG1	2.21	0.56
13:G3:273:VAL:CG1	13:G3:297:MET:HE1	2.35	0.56
13:G3:422:TYR:H	13:G3:440:PHE:HB3	1.70	0.56
14:G4:6:LEU:HD11	3:MD:360:GLY:HA3	1.88	0.56
14:G4:393:TYR:HH	14:G4:406:CYS:HG	1.50	0.56
14:G5:92:LYS:HD3	14:G5:96:ILE:HA	1.87	0.56
14:G6:386:ILE:HG22	14:G6:387:GLU:HG3	1.87	0.56
4:GC:427:ALA:HA	4:GC:430:LYS:HG2	1.88	0.56
4:GE:273:ALA:N	4:GE:377:MET:HE1	2.21	0.56
3:GF:217:LEU:HD11	3:GF:220:PRO:HB3	1.88	0.56
4:GI:139:HIS:HE1	4:GI:168:GLU:HB2	1.70	0.56
3:GL:269:GLY:N	3:GL:367:PHE:O	2.38	0.56
15:H5:212:LEU:HG	15:H5:213:ILE:N	2.21	0.56
3:HB:309:ARG:N	3:HB:372:THR:HG1	2.01	0.56
3:HF:269:GLY:N	3:HF:367:PHE:O	2.39	0.56
3:HF:350:LYS:HE3	4:HG:181:VAL:H	1.71	0.56
4:HG:48:SER:OG	4:HG:243:ARG:NE	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HI:206:ASN:OD1	4:HI:207:GLU:N	2.39	0.56
3:IL:378:PHE:HA	3:IL:381:ILE:HG12	1.88	0.56
4:JA:216:ASN:HB2	4:JA:276:ILE:HD12	1.88	0.56
4:JC:33:ASP:OD1	4:JC:34:GLY:N	2.39	0.56
3:JD:52:ASN:OD1	3:JD:62:ARG:NH1	2.38	0.56
4:JE:234:ILE:HD11	4:JE:272:TYR:HB2	1.87	0.56
4:JG:206:ASN:HA	4:JG:209:ILE:HD12	1.88	0.56
3:JH:347:ASN:HB3	4:JI:178:SER:HB3	1.88	0.56
4:JI:216:ASN:HB2	4:JI:276:ILE:HD12	1.88	0.56
21:K2:301:LYS:HE3	37:YD:160:ARG:HH12	1.71	0.56
21:K3:168:VAL:HG21	21:K3:213:MET:HE1	1.87	0.56
21:K3:424:ARG:O	21:K3:428:HIS:ND1	2.37	0.56
4:KA:272:TYR:CZ	4:KA:274:PRO:HG2	2.40	0.56
3:KB:100:ASN:HB3	3:KB:103:LYS:HB2	1.88	0.56
3:KB:117:LEU:HD11	3:KB:154:LYS:HD2	1.87	0.56
4:KC:154:MET:HE3	4:KC:194:THR:HG22	1.88	0.56
3:KD:7:LEU:HD13	3:KD:64:VAL:HB	1.87	0.56
3:KD:170:VAL:N	3:KD:202:ILE:O	2.34	0.56
4:KE:144:GLY:N	39:KE:501:GTP:O2B	2.36	0.56
3:KH:309:ARG:HH22	3:KH:344:TRP:HZ3	1.53	0.56
4:KI:220:GLU:O	4:KI:221:ARG:NE	2.39	0.56
3:KL:378:PHE:CD1	3:KL:419:VAL:HG22	2.41	0.56
22:L2:31:PHE:HB3	22:L2:36:LYS:HZ3	1.71	0.56
4:LA:47:ASP:O	4:LA:50:ASN:N	2.25	0.56
3:LB:268:PRO:HD2	3:LB:301:ALA:HB2	1.88	0.56
3:LB:337:ASN:HB2	3:LB:340:TYR:HB2	1.87	0.56
4:LC:287:SER:OG	4:LC:290:GLU:OE1	2.21	0.56
3:LD:309:ARG:N	3:LD:372:THR:OG1	2.31	0.56
3:LF:139:LEU:N	3:LF:168:SER:OG	2.39	0.56
3:LJ:268:PRO:HD2	3:LJ:301:ALA:HB2	1.86	0.56
3:LL:80:PRO:O	3:LL:83:GLN:NE2	2.38	0.56
3:LL:295:ASP:HB2	3:LL:298:ASN:HB2	1.86	0.56
4:MC:306:ASP:OD2	4:MC:309:HIS:N	2.39	0.56
3:MD:166:THR:OG1	3:MD:198:GLU:O	2.21	0.56
3:MD:211:CYS:HA	3:MD:215:LEU:HB2	1.86	0.56
3:MD:249:ASP:HB3	3:MD:252:LYS:HB2	1.88	0.56
3:MD:317:PHE:HB3	3:MD:321:MET:HE3	1.88	0.56
4:MM:272:TYR:CZ	4:MM:274:PRO:HG2	2.39	0.56
25:N:30:VAL:HG23	25:N:31:ASN:H	1.71	0.56
3:NF:322:SER:N	3:NF:325:GLU:OE2	2.39	0.56
4:NG:67:PHE:HB2	4:NG:92:LEU:HD13	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:NG:102:ASN:HB3	4:NG:105:ARG:HB2	1.86	0.56
3:NJ:13:GLY:HA2	3:NJ:16:ILE:HB	1.87	0.56
3:NJ:250:LEU:O	3:NJ:254:ALA:N	2.31	0.56
3:NL:2:ARG:HA	3:NL:129:CYS:O	2.06	0.56
4:OA:46:ASP:OD1	4:OA:50:ASN:ND2	2.38	0.56
4:OE:423:GLU:HA	4:OE:426:ALA:HB3	1.88	0.56
4:OG:91:GLN:HG3	4:OG:121:ARG:HH21	1.71	0.56
3:OH:322:SER:N	3:OH:325:GLU:OE2	2.36	0.56
3:OJ:111:GLU:HG2	3:OJ:112:LEU:HD12	1.88	0.56
4:OK:154:MET:HE1	4:OK:197:HIS:HB2	1.86	0.56
4:PA:396:ASP:OD1	4:PA:397:LEU:N	2.39	0.56
3:PD:175:VAL:HG22	3:PD:177:ASP:H	1.71	0.56
4:PG:50:ASN:OD1	4:PG:51:THR:N	2.39	0.56
4:PI:89:PRO:HD2	4:QI:280:LYS:HZ3	1.71	0.56
30:Q1:1401:GLN:O	30:Q1:1406:LEU:N	2.23	0.56
30:Q1:1414:LEU:N	30:Q1:1418:MET:HE3	2.21	0.56
3:QB:289:LEU:O	3:QB:293:MET:HG2	2.06	0.56
4:QC:286:LEU:HD11	4:QC:373:ARG:H	1.69	0.56
4:QE:154:MET:HE3	4:QE:194:THR:HG22	1.86	0.56
4:QE:318:LEU:HD13	4:QE:354:GLY:HA3	1.87	0.56
4:QG:188:ILE:HG12	4:QG:421:ALA:HB1	1.87	0.56
4:QM:216:ASN:ND2	4:QM:275:VAL:O	2.38	0.56
4:QM:423:GLU:HA	4:QM:426:ALA:HB3	1.87	0.56
3:RH:317:PHE:O	3:RH:354:CYS:N	2.30	0.56
4:RI:53:PHE:O	4:RI:64:ARG:NH1	2.38	0.56
3:RJ:13:GLY:HA2	3:RJ:16:ILE:HB	1.87	0.56
3:RJ:305:PRO:HA	3:RJ:373:ALA:HB2	1.86	0.56
3:RL:182:PRO:HA	3:RL:381:ILE:HD11	1.87	0.56
4:SG:338:LYS:HZ2	4:SG:340:THR:H	1.54	0.56
3:SH:2:ARG:HA	3:SH:129:CYS:O	2.06	0.56
3:SJ:176:SER:O	3:SJ:178:THR:N	2.39	0.56
3:SL:3:GLU:HG2	3:SL:130:LEU:HD23	1.88	0.56
4:SM:154:MET:HE3	4:SM:194:THR:HG22	1.88	0.56
3:TF:6:HIS:HD2	3:TF:134:GLN:HG2	1.70	0.56
3:TH:309:ARG:HE	3:TH:426:GLN:HE21	1.51	0.56
4:TI:264:ARG:HE	4:TI:431:ASP:HB3	1.68	0.56
4:TI:392:ASP:OD1	4:TI:393:HIS:N	2.39	0.56
3:TJ:302:ALA:HB1	3:TJ:377:LEU:HD21	1.87	0.56
3:TL:324:LYS:NZ	4:TM:222:PRO:O	2.30	0.56
3:UF:344:TRP:O	4:UG:401:LYS:NZ	2.22	0.56
3:UL:250:LEU:O	3:UL:254:ALA:N	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:VE:6:SER:HA	4:VE:136:LEU:HB2	1.88	0.56
3:VH:58:LYS:HE2	3:WH:281:TYR:HE1	1.70	0.56
4:VI:388:TRP:HB3	4:VI:425:LEU:HD11	1.88	0.56
4:VK:396:ASP:OD1	4:VK:397:LEU:N	2.39	0.56
3:WB:194:GLU:OE1	3:WB:195:ASN:ND2	2.38	0.56
4:WG:122:ILE:O	4:WG:126:ALA:N	2.36	0.56
3:WJ:324:LYS:HD2	4:WK:221:ARG:HA	1.88	0.56
33:X:386:GLN:OE1	33:X:390:ARG:NE	2.27	0.56
34:XC:83:LEU:HD11	34:XC:161:ARG:HB2	1.87	0.56
37:YC:12:GLU:HB3	37:YC:145:LEU:HD11	1.86	0.56
37:YL:18:PHE:HA	37:YL:21:GLN:HB2	1.88	0.56
37:YN:136:GLY:O	37:YN:140:LEU:N	2.32	0.56
37:YO:124:HIS:ND1	37:YO:124:HIS:O	2.39	0.56
37:YV:125:LEU:HD11	37:YV:138:VAL:HG11	1.88	0.56
1:A:201:ARG:O	1:A:205:ALA:N	2.33	0.56
1:A:308:GLU:HA	1:A:311:ARG:HE	1.71	0.56
2:A2:162:ARG:HE	13:G1:166:LYS:NZ	2.04	0.56
2:A2:165:ARG:NH1	13:G1:198:GLY:HA2	2.20	0.56
2:A3:22:SER:HB2	2:A3:26:ARG:HH12	1.71	0.56
3:AB:19:LYS:NZ	3:AB:223:GLY:O	2.38	0.56
4:AC:33:ASP:OD1	4:AC:34:GLY:N	2.39	0.56
4:AC:402:ARG:NH2	35:XH:233:PRO:HG2	2.21	0.56
4:AE:264:ARG:O	4:AE:266:HIS:ND1	2.37	0.56
4:AG:349:THR:HG23	3:AH:179:VAL:HG12	1.87	0.56
4:AG:427:ALA:HA	34:XD:102:ARG:HH12	1.70	0.56
3:AH:269:GLY:N	3:AH:367:PHE:O	2.39	0.56
4:AI:229:ARG:NH1	4:AI:233:GLN:HB3	2.20	0.56
4:AK:154:MET:HE3	4:AK:194:THR:HG22	1.88	0.56
1:B:316:LEU:HD21	1:B:320:ARG:HH21	1.70	0.56
5:B1:345:LEU:O	5:B1:349:ILE:HG12	2.06	0.56
5:B2:85:LEU:O	5:B2:89:ILE:HG12	2.05	0.56
4:BC:214:ARG:NH1	4:BC:215:ARG:HG3	2.20	0.56
3:BF:218:THR:OG1	13:G1:140:ASN:OD1	2.24	0.56
4:BG:3:GLU:OE2	4:BG:130:THR:N	2.35	0.56
4:BG:154:MET:HE1	4:BG:197:HIS:HB2	1.87	0.56
3:BH:7:LEU:HB2	3:BH:135:LEU:HG	1.87	0.56
3:BH:41:ASP:HB3	15:H4:10:PHE:CE2	2.41	0.56
7:C1:117:SER:O	7:C1:121:ARG:HG2	2.06	0.56
7:C2:389:LYS:O	7:C2:393:LEU:HG	2.05	0.56
7:C7:115:HIS:O	7:C7:119:ARG:HG2	2.06	0.56
3:CB:269:GLY:N	3:CB:367:PHE:O	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CI:415:GLU:HA	4:CI:418:PHE:CD2	2.41	0.56
3:CJ:309:ARG:H	3:CJ:372:THR:HG1	1.52	0.56
4:CK:75:VAL:HG22	4:CK:79:ARG:HH21	1.70	0.56
4:CM:396:ASP:OD1	4:CM:397:LEU:N	2.39	0.56
4:CM:427:ALA:HA	4:CM:430:LYS:HG2	1.88	0.56
7:Cd:295:SER:OG	7:Cd:296:VAL:N	2.36	0.56
6:D:217:THR:OG1	6:D:221:ARG:NE	2.36	0.56
8:D6:331:ASP:CG	8:D7:78:ARG:HH22	2.14	0.56
8:D7:326:LEU:HA	8:D7:409:ARG:HH12	1.71	0.56
4:DA:33:ASP:OD1	4:DA:34:GLY:N	2.39	0.56
4:DC:125:LEU:HD13	4:DC:128:LEU:HD21	1.88	0.56
4:DC:316:CYS:HB3	4:DC:378:LEU:HB2	1.87	0.56
4:DG:6:SER:HA	4:DG:136:LEU:HB2	1.85	0.56
3:DL:77:ARG:O	3:DL:77:ARG:NH1	2.33	0.56
3:DL:219:THR:OG1	13:G3:281:ARG:NH2	2.29	0.56
4:EC:423:GLU:HA	4:EC:426:ALA:HB3	1.88	0.56
3:EH:139:LEU:N	3:EH:168:SER:OG	2.38	0.56
11:F3:126:ASP:OD1	11:F3:127:LYS:N	2.39	0.56
11:F3:357:LEU:HG	11:F3:451:LEU:HD11	1.88	0.56
11:F4:101:LEU:O	11:F4:105:ASN:ND2	2.38	0.56
11:F7:90:TYR:O	11:F8:208:HIS:ND1	2.34	0.56
11:F7:129:GLN:HA	11:F7:132:HIS:NE2	2.19	0.56
11:F7:385:LYS:HZ2	11:F7:388:PRO:HG2	1.70	0.56
11:F8:467:ASP:HB3	11:F8:471:SER:HB3	1.88	0.56
4:FA:11:GLN:O	4:FA:14:VAL:HG22	2.05	0.56
4:FA:262:TYR:OH	3:FB:391:ARG:O	2.24	0.56
4:FE:171:ILE:HD12	4:FE:204:VAL:HG23	1.88	0.56
4:FI:32:PRO:O	4:FI:85:GLN:NE2	2.38	0.56
3:FJ:292:GLN:O	3:FJ:298:ASN:ND2	2.38	0.56
11:Fc:221:LEU:HD21	11:Fc:331:GLN:HB3	1.88	0.56
11:Fc:308:GLN:NE2	11:Fc:309:ASN:OD1	2.39	0.56
11:Fj:201:ARG:HH12	11:Fj:207:VAL:HG22	1.69	0.56
13:G1:22:LYS:HB3	13:G1:25:PHE:CE1	2.41	0.56
13:G1:164:HIS:HD2	13:G1:166:LYS:HG2	1.70	0.56
13:G3:37:TYR:CG	3:ML:212:PHE:HB3	2.41	0.56
13:G3:170:ARG:HG3	13:G3:201:LEU:HD22	1.87	0.56
4:GA:220:GLU:HG2	4:GA:221:ARG:HG2	1.86	0.56
4:GC:75:VAL:HA	4:GC:78:VAL:HG12	1.88	0.56
4:GE:9:VAL:HA	4:GE:68:VAL:HG23	1.88	0.56
4:GE:320:ARG:HD3	4:GE:360:PRO:HG3	1.88	0.56
3:GF:139:LEU:HD21	3:GF:170:VAL:HG22	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GJ:139:LEU:N	3:GJ:168:SER:OG	2.38	0.56
4:HA:51:THR:HG23	4:HA:52:PHE:HD2	1.71	0.56
4:HA:89:PRO:HD2	4:IA:280:LYS:NZ	2.21	0.56
3:HB:389:PHE:HZ	3:HB:405:GLU:HB2	1.70	0.56
4:HG:34:GLY:HA2	4:HG:86:LEU:HD21	1.87	0.56
4:HG:49:PHE:O	4:HG:53:PHE:N	2.35	0.56
4:HG:315:CYS:O	4:HG:351:PHE:HA	2.05	0.56
3:HJ:7:LEU:HD13	3:HJ:64:VAL:HB	1.88	0.56
3:HL:415:MET:O	3:HL:419:VAL:HG23	2.05	0.56
4:IA:287:SER:N	4:IA:290:GLU:OE2	2.39	0.56
4:IC:244:PHE:HB2	4:IC:356:ASN:HD21	1.71	0.56
3:IF:12:CYS:HA	39:IF:501:GTP:N2	2.21	0.56
4:IG:224:TYR:HA	4:IG:227:LEU:HB2	1.88	0.56
4:IG:261:PRO:HA	3:IH:394:PHE:CE1	2.40	0.56
3:IH:251:ARG:O	3:IH:255:VAL:HG22	2.06	0.56
3:IL:234:SER:O	3:IL:238:THR:HG23	2.04	0.56
4:IM:272:TYR:CZ	4:IM:274:PRO:HG2	2.41	0.56
3:JD:2:ARG:HB3	3:JD:131:GLN:NE2	2.21	0.56
3:JD:13:GLY:HA2	3:JD:16:ILE:HB	1.87	0.56
3:JD:19:LYS:NZ	3:JD:223:GLY:O	2.39	0.56
3:JD:295:ASP:HB2	3:JD:298:ASN:HB2	1.88	0.56
4:JG:168:GLU:HB2	4:JG:201:ALA:HA	1.87	0.56
4:JK:89:PRO:HD2	4:KK:280:LYS:NZ	2.20	0.56
4:JK:319:TYR:N	4:JK:354:GLY:O	2.39	0.56
21:K2:272:THR:HB	21:K2:275:THR:HG23	1.87	0.56
3:KD:322:SER:N	3:KD:325:GLU:OE2	2.38	0.56
3:KH:290:THR:HG21	3:KH:329:GLN:HB3	1.87	0.56
3:KL:152:ILE:HA	3:KL:155:ILE:HG12	1.88	0.56
3:LD:415:MET:O	3:LD:419:VAL:HG23	2.06	0.56
4:LG:392:ASP:OD1	4:LG:393:HIS:N	2.39	0.56
3:LH:305:PRO:HB2	3:LH:310:TYR:HE1	1.69	0.56
3:LJ:328:GLU:OE1	3:LJ:332:ASN:ND2	2.37	0.56
4:MG:47:ASP:HB3	4:MG:49:PHE:CE2	2.41	0.56
4:NA:1:MET:SD	4:NA:2:ARG:N	2.78	0.56
4:NC:12:ALA:HB2	39:NC:501:GTP:H5”	1.88	0.56
4:NC:46:ASP:OD1	4:NC:50:ASN:ND2	2.37	0.56
4:NE:187:SER:O	4:NE:190:THR:OG1	2.22	0.56
4:NI:144:GLY:N	39:NI:501:GTP:O2B	2.39	0.56
4:NI:411:GLU:OE2	4:NI:413:MET:HE1	2.06	0.56
4:OC:171:ILE:HD12	4:OC:204:VAL:HG13	1.88	0.56
4:OC:287:SER:OG	4:OC:290:GLU:OE1	2.24	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:OD:111:GLU:HG2	3:OD:112:LEU:HD12	1.88	0.56
4:OG:207:GLU:HB2	4:OG:304:LYS:NZ	2.20	0.56
3:OH:91:VAL:HG11	3:OH:116:VAL:HG12	1.87	0.56
3:OH:415:MET:O	3:OH:419:VAL:HG23	2.06	0.56
4:PA:206:ASN:HA	4:PA:209:ILE:HD12	1.88	0.56
3:PB:269:GLY:N	3:PB:367:PHE:O	2.38	0.56
39:PB:501:GTP:O3G	39:PB:501:GTP:O3'	2.20	0.56
3:PD:322:SER:N	3:PD:325:GLU:OE2	2.39	0.56
3:PD:406:MET:O	3:PD:409:THR:OG1	2.21	0.56
3:PJ:2:ARG:HB3	3:PJ:131:GLN:NE2	2.21	0.56
3:QB:139:LEU:HD21	3:QB:170:VAL:HG22	1.88	0.56
3:QB:218:THR:OG1	3:QB:219:THR:N	2.39	0.56
4:QG:60:LYS:HE2	4:QG:86:LEU:HA	1.88	0.56
4:QG:81:GLY:O	4:QG:84:ARG:NH1	2.39	0.56
3:QH:357:PRO:HB3	3:QH:362:LYS:HA	1.88	0.56
4:QK:288:VAL:O	4:QK:292:THR:OG1	2.16	0.56
4:QM:70:LEU:HB2	4:QM:145:THR:HG21	1.88	0.56
4:QM:171:ILE:HD12	4:QM:204:VAL:HG13	1.88	0.56
3:RB:12:CYS:SG	3:RB:13:GLY:N	2.79	0.56
3:RB:152:ILE:HD12	3:RB:195:ASN:HB2	1.86	0.56
4:RC:258:ASN:ND2	4:RC:352:LYS:HG3	2.20	0.56
3:RD:114:ASP:OD1	3:RD:115:SER:N	2.39	0.56
3:RD:374:ILE:HA	3:RD:377:LEU:HD13	1.88	0.56
3:RF:285:THR:O	3:RF:288:GLU:HG3	2.05	0.56
4:RI:88:HIS:HB3	4:RI:91:GLN:HB2	1.88	0.56
3:RJ:47:ILE:HG21	3:RJ:59:TYR:CZ	2.41	0.56
4:RK:395:PHE:HD2	4:RK:422:ARG:HH11	1.52	0.56
3:SB:84:ILE:O	3:SB:86:ARG:NH1	2.38	0.56
3:SB:350:LYS:HE3	4:SC:180:ALA:HA	1.88	0.56
3:SJ:46:ARG:HH12	4:SK:73:THR:HG23	1.70	0.56
4:SK:34:GLY:HA2	4:SK:86:LEU:HD21	1.86	0.56
4:SM:50:ASN:O	4:SM:64:ARG:NH1	2.39	0.56
3:TB:256:ASN:HD21	4:TC:101:ASN:ND2	2.03	0.56
3:TB:392:LYS:HB2	3:TB:395:LEU:HD13	1.87	0.56
4:TE:392:ASP:OD1	4:TE:393:HIS:N	2.38	0.56
4:TG:306:ASP:OD2	4:TG:309:HIS:ND1	2.39	0.56
3:TH:39:ASP:OD1	3:TH:43:GLN:NE2	2.39	0.56
4:TK:319:TYR:HB2	4:TK:355:ILE:HD13	1.88	0.56
4:TM:119:LEU:HD23	4:TM:122:ILE:HD11	1.86	0.56
33:U:175:ASN:O	33:U:178:GLN:NE2	2.39	0.56
4:UA:12:ALA:HB1	39:UA:501:GTP:C2	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UA:264:ARG:O	4:UA:266:HIS:ND1	2.38	0.56
4:UE:33:ASP:OD1	4:UE:34:GLY:N	2.38	0.56
4:UG:316:CYS:N	4:UG:378:LEU:O	2.27	0.56
4:VA:154:MET:HE3	4:VA:194:THR:HG22	1.87	0.56
4:VC:256:GLN:O	4:VC:260:VAL:HG12	2.06	0.56
3:VD:83:GLN:O	3:VD:86:ARG:NH2	2.39	0.56
4:VK:1:MET:O	4:VK:131:GLY:HA3	2.05	0.56
4:VK:316:CYS:N	4:VK:378:LEU:O	2.28	0.56
3:WB:218:THR:OG1	3:WB:219:THR:N	2.38	0.56
4:WE:206:ASN:HA	4:WE:209:ILE:HD12	1.86	0.56
4:WE:401:LYS:C	4:WE:402:ARG:HD3	2.31	0.56
3:WF:234:SER:O	3:WF:238:THR:HG23	2.06	0.56
4:WG:216:ASN:HB2	4:WG:276:ILE:HD12	1.87	0.56
4:WI:34:GLY:HA2	4:WI:86:LEU:HD21	1.87	0.56
4:WI:415:GLU:OE1	4:WI:419:SER:OG	2.24	0.56
4:WK:67:PHE:HB2	4:WK:92:LEU:HD13	1.88	0.56
3:WL:372:THR:HG21	3:WL:426:GLN:HG3	1.88	0.56
35:XH:156:LEU:HA	35:XH:159:LEU:HD12	1.87	0.56
37:YD:120:GLU:O	37:YD:124:HIS:N	2.38	0.56
37:YE:33:ARG:HH22	37:YE:133:HIS:CD2	2.23	0.56
37:YK:161:LYS:HG3	37:YK:162:VAL:HG23	1.86	0.56
1:A:61:GLN:HB3	1:A:65:PHE:CZ	2.41	0.56
2:A1:176:ARG:NH1	7:C1:279:GLU:OE1	2.39	0.56
2:A2:61:LYS:HD2	5:B3:281:TRP:CZ2	2.41	0.56
3:AB:317:PHE:HB3	3:AB:321:MET:HE3	1.88	0.56
3:AJ:164:MET:HE3	3:AJ:197:ASP:N	2.21	0.56
3:AJ:176:SER:O	3:AJ:178:THR:N	2.39	0.56
3:AJ:392:LYS:HB2	3:AJ:395:LEU:HD13	1.88	0.56
4:AK:144:GLY:N	39:AK:501:GTP:O2B	2.39	0.56
4:AK:208:ALA:N	4:AK:304:LYS:HZ1	2.03	0.56
3:AL:52:ASN:OD1	3:AL:62:ARG:NH1	2.37	0.56
5:B1:119:LEU:HD13	5:B1:389:LYS:HE3	1.86	0.56
5:B3:130:ARG:N	5:B4:12:TYR:O	2.29	0.56
5:B7:78:LEU:HD13	5:B7:179:LYS:NZ	2.20	0.56
5:B7:277:SER:HA	5:B7:280:LYS:HZ1	1.70	0.56
3:BB:11:GLN:HE21	39:BB:501:GTP:H3'	1.70	0.56
3:BB:15:GLN:NE2	39:BB:501:GTP:C2	2.70	0.56
3:BH:318:ARG:HD3	3:BH:358:PRO:HG3	1.88	0.56
4:BK:89:PRO:HD2	4:CK:280:LYS:NZ	2.19	0.56
6:C:268:ILE:HA	6:C:273:LEU:HD21	1.87	0.56
7:C3:284:PHE:C	7:C3:285:ARG:HD2	2.31	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C8:197:GLU:HA	7:C8:200:PHE:CE1	2.41	0.56
3:CB:423:GLN:O	3:CB:427:ASP:N	2.37	0.56
4:CG:401:LYS:C	4:CG:402:ARG:HD3	2.30	0.56
3:CH:40:SER:HB3	3:CH:42:LEU:HD23	1.88	0.56
3:CJ:302:ALA:HB1	3:CJ:377:LEU:HD11	1.88	0.56
4:CM:10:GLY:O	4:CM:14:VAL:HG13	2.06	0.56
4:CM:219:ILE:HG22	4:CM:222:PRO:HD3	1.87	0.56
8:D1:72:ASP:HA	8:D1:75:GLU:HG3	1.86	0.56
8:D8:352:VAL:O	8:D8:356:ARG:HG2	2.06	0.56
4:DC:9:VAL:HA	4:DC:68:VAL:HG23	1.88	0.56
3:DD:218:THR:OG1	3:DD:219:THR:N	2.38	0.56
3:DD:268:PRO:HD2	3:DD:301:ALA:HB2	1.87	0.56
4:DE:423:GLU:HA	4:DE:426:ALA:HB3	1.88	0.56
3:DF:322:SER:N	3:DF:325:GLU:OE2	2.38	0.56
4:DI:208:ALA:H	4:DI:304:LYS:HZ1	1.54	0.56
3:DJ:141:GLY:HA3	39:DJ:501:GTP:H5”	1.88	0.56
4:DK:192:HIS:HA	4:DK:195:LEU:HD23	1.86	0.56
9:E:583:PHE:HA	9:E:586:LEU:HB2	1.88	0.56
3:EB:277:GLY:O	3:EB:281:TYR:N	2.39	0.56
4:EE:287:SER:OG	4:EE:290:GLU:OE1	2.19	0.56
4:EG:271:THR:OG1	4:EG:301:GLN:OE1	2.24	0.56
3:EH:375:GLN:HA	3:EH:378:PHE:CZ	2.41	0.56
4:EK:226:ASN:O	4:EK:229:ARG:HG2	2.05	0.56
3:EL:105:HIS:HD2	3:EL:106:TYR:CE1	2.24	0.56
11:F3:390:LYS:HD3	11:F3:393:GLN:NE2	2.21	0.56
11:F5:147:SER:HB2	11:Fa:136:GLU:OE1	2.06	0.56
4:FE:1:MET:O	4:FE:133:GLN:NE2	2.35	0.56
3:FH:350:LYS:HE3	4:FI:181:VAL:H	1.71	0.56
11:Fb:134:MET:O	11:Fb:138:THR:HG23	2.06	0.56
11:Fi:222:LEU:O	11:Fi:226:GLN:HG2	2.06	0.56
11:Fk:382:ILE:O	11:Fk:385:LYS:HG2	2.06	0.56
11:Fl:129:GLN:HA	11:Fl:132:HIS:CD2	2.40	0.56
12:G:43:SER:HB2	12:G:47:TYR:CE2	2.41	0.56
12:G:176:VAL:HG13	4:GK:370:LYS:HD3	1.88	0.56
13:G2:22:LYS:HB3	13:G2:25:PHE:HE1	1.71	0.56
4:GA:5:ILE:O	4:GA:136:LEU:N	2.30	0.56
3:GB:194:GLU:OE1	3:GB:195:ASN:ND2	2.39	0.56
4:GC:8:HIS:CE1	4:GC:138:PHE:CD2	2.93	0.56
3:GD:158:GLU:HG2	3:GD:159:TYR:CD2	2.41	0.56
4:GE:89:PRO:HD2	4:HE:280:LYS:NZ	2.20	0.56
4:GE:224:TYR:HA	4:GE:227:LEU:HB2	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:GG:216:ASN:HB2	4:GG:276:ILE:HD12	1.86	0.56
12:H:455:ILE:HA	12:H:458:GLN:OE1	2.06	0.56
15:H3:40:ALA:O	15:H3:44:THR:OG1	2.21	0.56
15:H6:285:TYR:HB3	15:H6:300:PHE:HZ	1.70	0.56
4:HA:192:HIS:HA	4:HA:195:LEU:HD23	1.86	0.56
3:HB:289:LEU:O	3:HB:293:MET:N	2.33	0.56
4:HE:69:ASP:N	4:HE:93:ILE:O	2.39	0.56
4:HE:175:PRO:HB2	4:HE:390:ARG:HH11	1.70	0.56
4:HE:207:GLU:HB2	4:HE:304:LYS:HZ1	1.71	0.56
3:HH:333:VAL:HA	3:HH:336:LYS:HD2	1.88	0.56
3:HJ:254:ALA:HA	3:HJ:257:MET:HG2	1.88	0.56
3:HJ:305:PRO:HB2	3:HJ:310:TYR:HE1	1.70	0.56
3:HL:345:ILE:HD12	3:HL:346:PRO:HD2	1.88	0.56
3:ID:19:LYS:NZ	3:ID:223:GLY:O	2.39	0.56
3:IH:247:ASN:HB3	3:IH:252:LYS:HG3	1.87	0.56
3:IL:5:VAL:HG23	3:IL:130:LEU:HD21	1.86	0.56
3:IL:350:LYS:HE3	4:IM:180:ALA:HA	1.88	0.56
4:IM:319:TYR:N	4:IM:354:GLY:O	2.35	0.56
19:J2:66:GLN:HE22	19:J2:68:VAL:HB	1.71	0.56
4:JC:172:TYR:N	4:JC:204:VAL:O	2.29	0.56
3:JF:317:PHE:HB3	3:JF:321:MET:HE3	1.88	0.56
4:JG:214:ARG:NH1	4:JG:215:ARG:HG3	2.21	0.56
3:JL:139:LEU:N	3:JL:168:SER:OG	2.38	0.56
20:K:48:LYS:O	20:K:52:ARG:HG2	2.05	0.56
21:K2:404:HIS:CE1	21:K3:244:ALA:HB3	2.40	0.56
21:K3:271:PRO:HB2	21:K3:276:GLN:NE2	2.20	0.56
21:K4:153:LEU:HA	21:K4:156:ARG:NH2	2.21	0.56
4:KA:49:PHE:O	4:KA:53:PHE:N	2.39	0.56
3:KB:12:CYS:SG	39:KB:501:GTP:H5'	2.46	0.56
4:KC:226:ASN:HD22	4:KC:229:ARG:NH1	2.03	0.56
3:KD:63:ALA:O	3:KD:89:ASN:ND2	2.39	0.56
3:KF:83:GLN:O	3:KF:86:ARG:NH2	2.34	0.56
3:KF:132:GLY:HA2	3:KF:162:ARG:HB3	1.88	0.56
4:KG:256:GLN:O	4:KG:260:VAL:HG12	2.06	0.56
3:KJ:290:THR:HG21	3:KJ:329:GLN:HB3	1.88	0.56
4:KK:154:MET:HE1	4:KK:197:HIS:HB2	1.87	0.56
4:KK:401:LYS:C	4:KK:402:ARG:HD3	2.30	0.56
3:KL:376:GLU:HA	3:KL:379:LYS:HE3	1.87	0.56
3:LD:28:HIS:ND1	3:LD:43:GLN:HB2	2.20	0.56
3:LD:139:LEU:HD21	3:LD:170:VAL:HG22	1.88	0.56
4:LI:214:ARG:NH1	4:LI:215:ARG:HG3	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:M:138:LEU:HG	23:M:146:ILE:HG13	1.87	0.56
3:MB:103:LYS:O	3:MB:108:GLU:N	2.35	0.56
4:MK:207:GLU:HB2	4:MK:304:LYS:NZ	2.21	0.56
26:N2:76:ALA:HB1	26:N2:95:HIS:HA	1.87	0.56
3:NB:290:THR:HG21	3:NB:329:GLN:HB3	1.88	0.56
4:NC:236:SER:O	4:NC:243:ARG:NH2	2.33	0.56
3:NF:2:ARG:HA	3:NF:129:CYS:O	2.06	0.56
4:OI:273:ALA:N	4:OI:377:MET:HE1	2.21	0.56
27:P:45:ASP:O	27:P:49:ARG:HD3	2.06	0.56
27:P:197:GLU:HA	27:P:200:LYS:HE3	1.87	0.56
29:P1:571:VAL:O	29:P1:580:THR:N	2.31	0.56
29:P2:20:ILE:HB	29:P2:611:ILE:HB	1.88	0.56
29:P3:40:ILE:HG12	29:P3:49:ILE:HG12	1.88	0.56
3:PF:117:LEU:HD11	3:PF:154:LYS:HD2	1.87	0.56
3:PH:342:VAL:HB	3:PH:344:TRP:HE3	1.71	0.56
3:PJ:28:HIS:O	3:PJ:43:GLN:NE2	2.39	0.56
4:PM:32:PRO:O	4:PM:85:GLN:NE2	2.39	0.56
4:QG:411:GLU:OE2	4:QG:413:MET:HE1	2.06	0.56
4:QK:18:ASN:O	4:QK:22:GLU:N	2.33	0.56
3:QL:28:HIS:ND1	3:QL:43:GLN:HB2	2.21	0.56
27:R:176:ASP:HA	27:R:179:LEU:HD12	1.88	0.56
3:RB:215:LEU:C	3:RB:216:LYS:HG2	2.31	0.56
4:RG:33:ASP:OD1	4:RG:34:GLY:N	2.39	0.56
3:RH:211:CYS:HA	3:RH:215:LEU:HB2	1.88	0.56
4:RK:256:GLN:O	4:RK:260:VAL:HG12	2.05	0.56
4:RM:245:ASP:O	4:RM:356:ASN:ND2	2.39	0.56
3:SD:306:ARG:O	3:SD:306:ARG:NE	2.35	0.56
4:SE:22:GLU:O	4:SE:26:LEU:HD23	2.05	0.56
4:SE:33:ASP:OD1	4:SE:34:GLY:N	2.39	0.56
4:SE:331:ALA:O	4:SE:334:THR:OG1	2.21	0.56
4:SM:12:ALA:HB2	39:SM:501:GTP:H5”	1.88	0.56
3:TD:187:LEU:HD21	3:TD:408:PHE:CE1	2.40	0.56
3:TF:378:PHE:CD1	3:TF:419:VAL:HG22	2.41	0.56
3:TF:415:MET:O	3:TF:419:VAL:HG23	2.06	0.56
3:TH:322:SER:OG	3:TH:323:MET:SD	2.63	0.56
3:TJ:392:LYS:HB2	3:TJ:395:LEU:HD13	1.87	0.56
3:UF:99:ASN:OD1	3:UF:142:GLY:HA3	2.05	0.56
4:UG:10:GLY:HA2	4:UG:145:THR:OG1	2.06	0.56
3:VD:11:GLN:HE21	39:VD:501:GTP:H3’	1.71	0.56
4:VE:144:GLY:N	39:VE:501:GTP:O2B	2.36	0.56
4:VG:33:ASP:OD1	4:VG:34:GLY:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:VI:49:PHE:O	4:VI:53:PHE:N	2.36	0.56
3:VJ:77:ARG:O	3:VJ:77:ARG:NH1	2.33	0.56
4:WA:6:SER:HA	4:WA:136:LEU:HB2	1.86	0.56
4:WE:224:TYR:HE2	39:WE:501:GTP:O6	1.88	0.56
3:WF:83:GLN:O	3:WF:86:ARG:NH2	2.38	0.56
4:WG:208:ALA:H	4:WG:304:LYS:HZ1	1.54	0.56
4:WG:264:ARG:O	4:WG:266:HIS:ND1	2.38	0.56
4:WK:371:VAL:HG11	4:WK:374:ALA:HB2	1.87	0.56
34:XA:155:GLN:HE22	34:XA:157:HIS:CD2	2.24	0.56
35:XJ:59:CYS:SG	35:XJ:62:ARG:NH2	2.79	0.56
37:YJ:61:THR:HG22	37:YJ:64:ARG:HH21	1.70	0.56
37:YJ:146:ASP:OD1	37:YJ:149:LYS:NZ	2.38	0.56
37:YK:59:ASN:HB2	37:YK:62:HIS:HD1	1.69	0.56
36:Z:481:LYS:HD2	36:Z:483:TYR:HE1	1.71	0.56
2:A1:135:GLU:OE2	2:A1:259:VAL:HG12	2.06	0.56
2:A3:330:ARG:HA	2:A3:334:GLN:HG3	1.88	0.56
3:AB:16:ILE:HD13	3:AB:226:ASN:ND2	2.22	0.56
3:AB:247:ASN:HB3	3:AB:252:LYS:HG2	1.86	0.56
3:AB:289:LEU:HD21	3:AB:363:MET:HB3	1.86	0.56
3:AD:2:ARG:HA	3:AD:129:CYS:O	2.06	0.56
4:AG:273:ALA:HB2	4:AG:295:CYS:HB3	1.88	0.56
3:AH:347:ASN:HB3	4:AI:178:SER:HB3	1.88	0.56
4:AK:161:TYR:O	4:AK:166:LYS:NZ	2.36	0.56
3:AL:19:LYS:NZ	3:AL:223:GLY:O	2.38	0.56
4:AM:53:PHE:O	4:AM:64:ARG:NH1	2.39	0.56
4:AM:141:PHE:HB2	4:AM:173:PRO:HD3	1.87	0.56
1:B:386:ASP:OD1	1:B:387:ASP:N	2.39	0.56
5:B7:167:GLU:O	5:B7:170:GLN:NE2	2.38	0.56
5:B9:297:ILE:HD11	5:B9:356:LEU:HG	1.87	0.56
4:BC:108:TYR:O	4:BC:112:LYS:NZ	2.28	0.56
4:BE:115:VAL:HG21	4:BE:156:ARG:HD3	1.87	0.56
4:BG:161:TYR:O	4:BG:166:LYS:NZ	2.34	0.56
7:C9:164:LEU:O	7:C9:168:ILE:HG12	2.06	0.56
7:C9:230:GLN:HG3	7:C9:234:ARG:NH2	2.21	0.56
3:CB:295:ASP:HB2	3:CB:298:ASN:HB2	1.88	0.56
4:CC:9:VAL:HG11	4:CC:150:ALA:HB2	1.87	0.56
3:CD:75:SER:O	14:G4:280:ARG:NH2	2.24	0.56
4:CI:9:VAL:HG22	4:CI:146:GLY:HA2	1.88	0.56
4:CK:287:SER:OG	4:CK:290:GLU:OE1	2.22	0.56
4:CM:172:TYR:N	4:CM:204:VAL:O	2.30	0.56
7:Cb:258:LEU:HA	7:Cb:261:LYS:HE3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Cc:132:TYR:O	7:Cc:136:ARG:HG2	2.06	0.56
6:D:167:GLU:OE1	6:D:167:GLU:N	2.36	0.56
8:D4:400:GLN:HA	8:D4:403:ARG:HE	1.71	0.56
8:D9:263:ASP:O	8:D9:267:ARG:HG2	2.07	0.56
4:DC:54:SER:HB2	4:DC:62:VAL:HB	1.86	0.56
4:DC:87:PHE:HB3	4:DC:92:LEU:HD21	1.87	0.56
3:DD:17:GLY:HA2	3:DD:20:PHE:HB3	1.87	0.56
4:DG:392:ASP:OD1	4:DG:393:HIS:N	2.39	0.56
3:DH:91:VAL:HG11	3:DH:116:VAL:HG12	1.88	0.56
4:DK:67:PHE:O	4:DK:93:ILE:N	2.39	0.56
4:DK:210:TYR:OH	4:DK:221:ARG:NH2	2.39	0.56
4:DK:278:ALA:O	4:DK:370:LYS:NZ	2.39	0.56
3:DL:139:LEU:HD21	3:DL:170:VAL:HG22	1.88	0.56
9:E:830:CYS:HB2	9:E:833:THR:HG23	1.86	0.56
3:EH:419:VAL:O	3:EH:423:GLN:NE2	2.39	0.56
4:EI:38:SER:HB2	14:G6:716:LYS:NZ	2.21	0.56
4:EI:161:TYR:O	4:EI:166:LYS:NZ	2.38	0.56
4:EI:295:CYS:HB2	4:EI:377:MET:HG2	1.88	0.56
4:EI:413:MET:HB3	4:EI:417:GLU:OE2	2.05	0.56
3:EJ:273:LEU:H	3:EJ:292:GLN:HE22	1.54	0.56
3:EL:101:TRP:HB2	3:EL:184:ASN:HD22	1.69	0.56
3:EL:380:ARG:O	3:EL:384:GLN:HG2	2.05	0.56
11:F1:210:ASN:HA	11:F1:213:LYS:HE2	1.88	0.56
11:F1:415:ARG:HB3	11:F2:138:THR:HG22	1.87	0.56
11:F3:422:THR:O	11:F3:426:THR:HG23	2.05	0.56
11:F6:361:LEU:HG	11:F6:448:LYS:HZ2	1.70	0.56
11:F7:361:LEU:HD21	11:F7:451:LEU:HB3	1.87	0.56
11:F9:197:ASN:HA	11:F9:200:LYS:HD3	1.88	0.56
3:FF:412:GLU:HA	3:FF:415:MET:HE2	1.87	0.56
4:FG:1:MET:SD	4:FG:2:ARG:N	2.79	0.56
4:FI:433:GLU:O	4:FI:437:VAL:N	2.33	0.56
4:FK:5:ILE:O	4:FK:136:LEU:N	2.37	0.56
4:FK:33:ASP:OD1	4:FK:34:GLY:N	2.38	0.56
4:FK:188:ILE:HG22	4:FK:421:ALA:HB1	1.87	0.56
11:Fl:245:ASP:HA	11:Fl:248:HIS:CE1	2.41	0.56
13:G1:124:TYR:HA	13:G1:131:MET:HG3	1.87	0.56
14:G4:635:PHE:O	14:G4:639:ILE:N	2.39	0.56
4:GA:306:ASP:OD2	4:GA:309:HIS:ND1	2.38	0.56
3:GB:252:LYS:HD2	4:GC:100:ALA:HA	1.88	0.56
4:GC:76:ASP:HA	4:GC:79:ARG:HG2	1.87	0.56
4:GE:269:LEU:N	4:GE:379:SER:O	2.29	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:GG:208:ALA:H	4:GG:304:LYS:HZ1	1.51	0.56
3:GH:269:GLY:N	3:GH:367:PHE:O	2.39	0.56
3:GJ:11:GLN:HE21	39:GJ:501:GTP:H3'	1.71	0.56
4:GK:89:PRO:HD2	4:HK:280:LYS:NZ	2.20	0.56
4:GK:287:SER:OG	4:GK:290:GLU:OE1	2.22	0.56
3:GL:52:ASN:OD1	3:GL:62:ARG:NH1	2.38	0.56
3:GL:182:PRO:HB2	3:GL:388:MET:HE1	1.88	0.56
4:HA:9:VAL:HA	4:HA:68:VAL:HG23	1.88	0.56
4:HC:214:ARG:NH1	4:HC:215:ARG:HG3	2.20	0.56
3:HD:372:THR:HG21	3:HD:426:GLN:HG3	1.88	0.56
4:HG:423:GLU:HA	4:HG:426:ALA:HB3	1.88	0.56
3:IB:344:TRP:HE1	4:IC:401:LYS:HD2	1.70	0.56
4:IC:46:ASP:OD1	4:IC:50:ASN:ND2	2.36	0.56
3:ID:258:VAL:HB	4:IE:407:TRP:HE1	1.71	0.56
3:IJ:378:PHE:HA	3:IJ:381:ILE:HG12	1.87	0.56
3:IL:151:LEU:O	3:IL:155:ILE:HG12	2.06	0.56
3:IL:166:THR:OG1	3:IL:198:GLU:O	2.20	0.56
4:IM:331:ALA:O	4:IM:334:THR:OG1	2.22	0.56
4:JC:236:SER:O	4:JC:243:ARG:NH2	2.37	0.56
3:JF:350:LYS:HE3	4:JG:180:ALA:HA	1.87	0.56
4:JG:1:MET:SD	4:JG:2:ARG:N	2.78	0.56
4:JG:371:VAL:HG11	4:JG:374:ALA:HB2	1.88	0.56
3:JL:143:THR:HG22	3:JL:147:MET:HE2	1.88	0.56
21:K2:147:ILE:HG12	21:K2:304:LEU:HD11	1.87	0.56
21:K2:184:TYR:O	21:K2:190:LYS:NZ	2.39	0.56
4:KC:24:TYR:O	4:KC:28:HIS:ND1	2.32	0.56
4:KG:53:PHE:O	4:KG:64:ARG:NH1	2.38	0.56
4:KI:324:VAL:HG11	3:KJ:219:THR:HB	1.86	0.56
3:KL:289:LEU:HD21	3:KL:363:MET:HB3	1.88	0.56
4:LA:22:GLU:O	4:LA:26:LEU:HD23	2.05	0.56
3:LB:156:ARG:NH1	3:LB:195:ASN:O	2.38	0.56
3:LD:247:ASN:ND2	39:LE:501:GTP:O1A	2.38	0.56
3:LF:12:CYS:SG	3:LF:13:GLY:N	2.79	0.56
3:LH:407:GLU:OE1	3:LH:407:GLU:N	2.38	0.56
4:LI:30:ILE:HG13	4:LI:53:PHE:HE2	1.71	0.56
4:LI:33:ASP:OD1	4:LI:34:GLY:N	2.38	0.56
4:LI:207:GLU:HB2	4:LI:304:LYS:HZ1	1.71	0.56
3:MB:11:GLN:HE21	39:MB:501:GTP:H3'	1.71	0.56
3:MB:78:SER:O	27:O:19:ARG:NH1	2.39	0.56
4:MC:329:ASN:OD1	4:MC:330:ALA:N	2.39	0.56
4:MI:91:GLN:HG3	4:MI:121:ARG:HH21	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MJ:39:ASP:OD1	3:MJ:43:GLN:NE2	2.39	0.56
4:MK:401:LYS:C	4:MK:402:ARG:HD3	2.31	0.56
4:NA:273:ALA:N	4:NA:377:MET:HE1	2.21	0.56
3:NB:67:ASP:OD2	3:NB:72:THR:OG1	2.24	0.56
3:NB:211:CYS:HA	3:NB:215:LEU:HB2	1.87	0.56
3:ND:3:GLU:OE2	3:ND:129:CYS:N	2.39	0.56
3:ND:268:PRO:HD2	3:ND:301:ALA:HB2	1.88	0.56
3:NH:166:THR:OG1	3:NH:198:GLU:O	2.23	0.56
3:NJ:309:ARG:H	3:NJ:372:THR:HG1	1.50	0.56
28:O1:55:ARG:HG2	28:O1:56:SER:H	1.68	0.56
28:O2:102:LEU:HD12	28:O2:109:LEU:HG	1.88	0.56
3:OD:100:ASN:HB3	3:OD:103:LYS:HB2	1.88	0.56
4:OE:256:GLN:O	4:OE:260:VAL:HG12	2.06	0.56
3:OF:286:VAL:HG21	3:OF:325:GLU:HG3	1.86	0.56
29:P1:360:HIS:HB2	29:P1:367:LEU:HD21	1.88	0.56
4:PA:1:MET:N	4:PA:130:THR:OG1	2.39	0.56
3:PB:235:GLY:O	3:PB:238:THR:OG1	2.18	0.56
3:PB:302:ALA:HB1	3:PB:377:LEU:HD11	1.88	0.56
4:PC:11:GLN:HB2	4:PC:74:VAL:HG21	1.88	0.56
4:PC:70:LEU:HA	4:PC:95:GLY:HA3	1.88	0.56
3:PD:3:GLU:OE2	3:PD:127:CYS:HB3	2.06	0.56
4:PG:34:GLY:HA2	4:PG:86:LEU:HD21	1.88	0.56
3:PH:217:LEU:HD11	3:PH:220:PRO:HB3	1.87	0.56
4:PI:7:ILE:N	4:PI:136:LEU:O	2.33	0.56
4:PI:392:ASP:OD1	4:PI:393:HIS:N	2.39	0.56
30:Q1:1437:TYR:CZ	30:Q1:1496:TYR:HB2	2.41	0.56
30:Q2:1494:LEU:O	30:Q2:1498:ASP:HB3	2.06	0.56
30:Q3:1427:LYS:HB2	30:Q3:1499:LYS:HB3	1.88	0.56
4:QC:273:ALA:N	4:QC:377:MET:HE1	2.21	0.56
3:QH:174:LYS:HG3	3:QH:175:VAL:HG12	1.87	0.56
4:QI:103:TYR:HB2	4:QI:186:ASN:HB2	1.88	0.56
4:QM:51:THR:HG23	4:QM:52:PHE:CD2	2.40	0.56
4:RC:315:CYS:O	4:RC:351:PHE:HA	2.06	0.56
3:RD:182:PRO:HB2	3:RD:388:MET:HE1	1.86	0.56
3:RJ:139:LEU:N	3:RJ:168:SER:OG	2.39	0.56
4:SC:33:ASP:OD1	4:SC:34:GLY:N	2.39	0.56
4:SC:220:GLU:O	4:SC:221:ARG:NE	2.38	0.56
3:SF:15:GLN:NE2	39:SF:501:GTP:C2	2.65	0.56
3:SF:235:GLY:O	3:SF:238:THR:OG1	2.22	0.56
3:SF:415:MET:O	3:SF:419:VAL:HG23	2.05	0.56
4:SG:306:ASP:OD1	4:SG:308:ARG:NH1	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:SG:339:ARG:O	4:SG:339:ARG:NH1	2.29	0.56
4:SG:348:PRO:HD2	3:SH:384:GLN:HE22	1.71	0.56
3:SH:28:HIS:ND1	3:SH:43:GLN:HB2	2.22	0.56
3:SJ:3:GLU:HG2	3:SJ:130:LEU:HD23	1.87	0.56
3:SJ:328:GLU:OE1	3:SJ:332:ASN:ND2	2.39	0.56
3:SJ:362:LYS:NZ	3:SJ:363:MET:HE2	2.20	0.56
3:SL:175:VAL:HG22	3:SL:177:ASP:H	1.70	0.56
3:SL:305:PRO:O	3:SL:340:TYR:OH	2.24	0.56
4:SM:7:ILE:N	4:SM:136:LEU:O	2.30	0.56
4:TE:208:ALA:H	4:TE:304:LYS:NZ	2.03	0.56
3:TH:46:ARG:NH2	3:TH:243:PRO:HD3	2.21	0.56
4:TI:316:CYS:N	4:TI:378:LEU:O	2.39	0.56
3:TN:172:SER:HB3	3:TN:175:VAL:O	2.05	0.56
3:TN:306:ARG:NE	3:TN:306:ARG:O	2.38	0.56
3:TN:420:SER:O	3:TN:424:GLN:N	2.32	0.56
4:UE:46:ASP:OD1	4:UE:50:ASN:ND2	2.38	0.56
4:UE:273:ALA:N	4:UE:377:MET:HE1	2.21	0.56
3:UF:406:MET:HE3	3:UF:406:MET:HA	1.88	0.56
4:UI:125:LEU:HD13	4:UI:128:LEU:HD21	1.87	0.56
4:VA:329:ASN:OD1	4:VA:330:ALA:N	2.39	0.56
3:VB:385:PHE:HA	3:VB:388:MET:HE2	1.87	0.56
3:VF:39:ASP:OD1	3:VF:43:GLN:NE2	2.38	0.56
4:VI:7:ILE:N	4:VI:136:LEU:O	2.32	0.56
4:VK:224:TYR:HA	4:VK:227:LEU:HB2	1.88	0.56
3:WH:235:GLY:O	3:WH:238:THR:OG1	2.19	0.56
3:WH:317:PHE:O	3:WH:354:CYS:N	2.33	0.56
34:XC:69:LEU:HG	34:XC:153:ARG:HA	1.89	0.56
37:YB:157:LYS:NZ	37:YC:108:ASN:OD1	2.39	0.56
37:YG:110:LEU:HB3	37:YG:140:LEU:HD22	1.88	0.56
37:YQ:14:LYS:O	37:YQ:18:PHE:N	2.39	0.56
36:Z:387:ARG:NH1	36:Z:388:GLN:OE1	2.36	0.56
2:A1:325:ASN:OD1	2:A1:326:VAL:N	2.39	0.55
3:AB:174:LYS:HG3	3:AB:175:VAL:HG12	1.88	0.55
3:AD:28:HIS:O	3:AD:43:GLN:NE2	2.38	0.55
4:AE:46:ASP:OD1	4:AE:50:ASN:ND2	2.38	0.55
3:AF:324:LYS:HD2	4:AG:221:ARG:HA	1.88	0.55
3:AF:375:GLN:HA	3:AF:378:PHE:CZ	2.41	0.55
4:AI:433:GLU:O	4:AI:437:VAL:N	2.37	0.55
4:AM:49:PHE:O	4:AM:53:PHE:N	2.38	0.55
4:BE:264:ARG:HG2	4:BE:265:ILE:H	1.70	0.55
4:BG:68:VAL:HG12	4:BG:93:ILE:HB	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BH:132:GLY:HA2	3:BH:162:ARG:HB3	1.88	0.55
3:BL:309:ARG:O	3:BL:371:SER:OG	2.22	0.55
3:BL:415:MET:O	3:BL:419:VAL:HG23	2.06	0.55
6:C:43:TYR:HE1	6:C:57:HIS:H	1.55	0.55
6:C:347:ALA:HA	6:C:361:ARG:HG3	1.89	0.55
7:C8:418:LEU:HB2	10:E2:109:TYR:OH	2.06	0.55
4:CC:220:GLU:O	4:CC:221:ARG:NE	2.35	0.55
3:CD:385:PHE:HA	3:CD:388:MET:HE2	1.87	0.55
3:CF:77:ARG:O	3:CF:77:ARG:NH1	2.31	0.55
3:CH:206:ALA:O	3:CH:210:ILE:HG12	2.05	0.55
4:CI:3:GLU:N	4:CI:133:GLN:OE1	2.39	0.55
3:CJ:48:ASN:O	3:CJ:62:ARG:NH2	2.27	0.55
7:Ca:403:ARG:HB3	7:Ca:406:ARG:HH21	1.71	0.55
7:Cc:147:GLY:HA3	11:Ff:140:ARG:NH2	2.20	0.55
6:D:304:TYR:HA	6:D:307:TYR:CD1	2.41	0.55
8:D6:360:ARG:HH12	8:D7:228:CYS:HB3	1.71	0.55
8:D8:75:GLU:HA	8:D8:78:ARG:HG2	1.86	0.55
4:DA:319:TYR:N	4:DA:354:GLY:O	2.38	0.55
3:DH:268:PRO:HD2	3:DH:301:ALA:HB2	1.88	0.55
4:DI:49:PHE:O	4:DI:53:PHE:N	2.39	0.55
4:DI:204:VAL:HG22	4:DI:209:ILE:HD11	1.88	0.55
3:DL:131:GLN:O	3:DL:251:ARG:NH2	2.39	0.55
4:EC:229:ARG:HH12	4:EC:366:GLY:HA2	1.69	0.55
4:EE:207:GLU:HB2	4:EE:304:LYS:HZ1	1.71	0.55
4:EE:317:MET:HE1	4:EE:351:PHE:HB3	1.87	0.55
4:EI:1:MET:SD	4:EI:2:ARG:N	2.79	0.55
4:EI:213:CYS:O	4:EI:219:ILE:N	2.37	0.55
4:EK:33:ASP:OD1	4:EK:34:GLY:N	2.39	0.55
9:F:332:ALA:HB2	4:HK:80:THR:HA	1.87	0.55
11:F2:442:GLN:OE1	11:F2:446:MET:HE1	2.06	0.55
11:F6:110:ARG:NH1	11:F7:363:LYS:O	2.39	0.55
4:FC:319:TYR:N	4:FC:354:GLY:O	2.39	0.55
4:FE:207:GLU:HB2	4:FE:304:LYS:HZ1	1.71	0.55
4:FI:178:SER:OG	4:FI:180:ALA:O	2.24	0.55
3:FJ:175:VAL:HG22	3:FJ:177:ASP:H	1.71	0.55
4:FK:271:THR:HA	4:FK:302:MET:HE1	1.88	0.55
11:Fc:253:ASP:OD2	11:Fc:303:ASN:ND2	2.39	0.55
11:Fc:312:ALA:HA	11:Fc:315:ILE:HD12	1.86	0.55
11:Ff:442:GLN:OE1	11:Ff:446:MET:HE1	2.06	0.55
11:Fg:378:LEU:HD11	11:Fg:437:THR:HG21	1.88	0.55
11:Fi:171:ASP:HA	11:Fi:174:LYS:HZ2	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Fk:339:THR:HB	11:Fk:472:MET:HE1	1.88	0.55
12:G:263:LYS:O	12:G:267:LYS:HG2	2.05	0.55
13:G1:102:TYR:HD2	13:G1:117:ILE:HD11	1.70	0.55
13:G1:511:TYR:HA	13:G1:514:LYS:HD2	1.88	0.55
13:G2:134:ILE:HG13	13:G2:147:LYS:HD2	1.87	0.55
13:G3:175:THR:HA	13:G3:180:THR:HA	1.88	0.55
14:G5:293:TYR:HD2	14:G5:298:ILE:HG12	1.71	0.55
14:G6:83:ALA:HB2	14:G6:167:ILE:HD13	1.88	0.55
4:GA:9:VAL:HG22	4:GA:146:GLY:HA2	1.87	0.55
4:GC:326:LYS:HE3	3:GD:220:PRO:HD2	1.88	0.55
4:GG:1:MET:N	4:GG:130:THR:OG1	2.39	0.55
4:GI:6:SER:HA	4:GI:136:LEU:HB2	1.88	0.55
4:GI:109:THR:O	4:GI:112:LYS:NZ	2.39	0.55
4:GI:207:GLU:HB2	4:GI:304:LYS:NZ	2.21	0.55
4:GK:68:VAL:HG12	4:GK:93:ILE:HB	1.88	0.55
3:GL:70:PRO:HA	3:GL:73:MET:HE3	1.88	0.55
15:H5:212:LEU:HG	15:H5:213:ILE:H	1.71	0.55
4:HE:262:TYR:HE1	3:HF:393:ALA:HA	1.71	0.55
3:HF:317:PHE:O	3:HF:354:CYS:N	2.29	0.55
4:HI:12:ALA:HB2	39:HI:501:GTP:H5"	1.87	0.55
4:IC:386:GLU:HA	4:IC:389:ALA:HB3	1.88	0.55
4:II:5:ILE:HD13	4:II:64:ARG:HB3	1.88	0.55
4:II:81:GLY:O	4:II:84:ARG:NH1	2.39	0.55
4:II:415:GLU:OE1	4:II:419:SER:OG	2.23	0.55
3:IJ:211:CYS:HA	3:IJ:215:LEU:HB2	1.87	0.55
4:IM:67:PHE:O	4:IM:93:ILE:N	2.39	0.55
18:J:69:ARG:NH1	18:J:73:LYS:HB2	2.21	0.55
19:J1:63:GLU:O	19:J1:65:ILE:N	2.38	0.55
3:JB:357:PRO:HB3	3:JB:362:LYS:HA	1.88	0.55
3:JF:173:PRO:O	3:JF:380:ARG:NH2	2.39	0.55
3:JH:268:PRO:HD2	3:JH:301:ALA:HB2	1.88	0.55
21:K2:238:CYS:O	21:K2:242:LEU:N	2.33	0.55
4:KA:102:ASN:HB3	4:KA:105:ARG:HB2	1.88	0.55
3:KB:15:GLN:NE2	39:KB:501:GTP:C2	2.74	0.55
4:KC:208:ALA:H	4:KC:304:LYS:NZ	2.04	0.55
3:KF:16:ILE:HD13	3:KF:226:ASN:HD22	1.71	0.55
4:KG:32:PRO:O	4:KG:85:GLN:NE2	2.39	0.55
4:KG:207:GLU:HB2	4:KG:304:LYS:NZ	2.20	0.55
3:KH:111:GLU:HG2	3:KH:112:LEU:HD12	1.89	0.55
3:KH:415:MET:O	3:KH:419:VAL:HG23	2.06	0.55
4:KI:1:MET:SD	4:KI:2:ARG:N	2.79	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:KK:214:ARG:NH1	4:KK:215:ARG:HG3	2.21	0.55
3:KL:16:ILE:HD13	3:KL:226:ASN:ND2	2.21	0.55
4:LC:214:ARG:NH1	4:LC:215:ARG:HG3	2.21	0.55
3:LD:152:ILE:HA	3:LD:155:ILE:HG12	1.88	0.55
3:LH:28:HIS:O	3:LH:43:GLN:NE2	2.39	0.55
3:LH:46:ARG:HH12	4:LI:73:THR:HG23	1.72	0.55
3:LH:317:PHE:HB3	3:LH:321:MET:HE3	1.88	0.55
4:LI:1:MET:SD	4:LI:2:ARG:N	2.80	0.55
3:LJ:214:THR:HG21	3:LJ:273:LEU:HB3	1.88	0.55
3:LL:412:GLU:OE1	3:LL:416:ASN:ND2	2.38	0.55
4:MC:411:GLU:OE2	4:MC:413:MET:HE1	2.06	0.55
39:MD:502:GTP:O2B	4:ME:144:GLY:N	2.38	0.55
4:ME:115:VAL:HA	4:ME:118:VAL:HG22	1.88	0.55
4:ME:371:VAL:HG11	4:ME:374:ALA:HB2	1.88	0.55
4:MG:185:TYR:CZ	4:MG:398:MET:HE1	2.42	0.55
4:MG:401:LYS:C	4:MG:402:ARG:HD3	2.31	0.55
3:MH:11:GLN:HG3	39:MH:501:GTP:PA	2.46	0.55
3:MH:406:MET:HG2	30:Q2:1419:ARG:NH2	2.21	0.55
4:MI:319:TYR:N	4:MI:354:GLY:O	2.38	0.55
3:MJ:151:LEU:HD22	3:MJ:154:LYS:HZ1	1.69	0.55
4:MK:411:GLU:OE2	4:MK:413:MET:HE1	2.07	0.55
4:MM:1:MET:N	4:MM:130:THR:OG1	2.39	0.55
4:MM:51:THR:HG23	4:MM:52:PHE:CD2	2.40	0.55
4:NA:285:GLN:HE22	4:NA:287:SER:HB3	1.70	0.55
3:NB:345:ILE:HD11	4:NC:181:VAL:HG11	1.89	0.55
3:ND:46:ARG:HH12	4:NE:73:THR:HG23	1.70	0.55
3:ND:406:MET:O	3:ND:409:THR:OG1	2.19	0.55
3:NF:234:SER:O	3:NF:238:THR:HG23	2.06	0.55
4:NG:388:TRP:HB3	4:NG:425:LEU:HD11	1.87	0.55
3:NJ:111:GLU:HG2	3:NJ:112:LEU:HD12	1.88	0.55
4:OC:401:LYS:C	4:OC:402:ARG:HD3	2.31	0.55
3:OD:19:LYS:NZ	3:OD:223:GLY:O	2.39	0.55
4:OI:178:SER:OG	4:OI:180:ALA:O	2.24	0.55
3:OL:289:LEU:O	3:OL:293:MET:N	2.32	0.55
3:PB:100:ASN:HB3	3:PB:103:LYS:HB2	1.88	0.55
3:PB:117:LEU:HD11	3:PB:154:LYS:HD2	1.87	0.55
3:PB:175:VAL:HG22	3:PB:177:ASP:H	1.72	0.55
4:PE:12:ALA:O	39:PE:501:GTP:N1	2.39	0.55
3:PF:12:CYS:SG	3:PF:13:GLY:N	2.79	0.55
4:PG:273:ALA:N	4:PG:377:MET:HE1	2.21	0.55
3:PH:218:THR:OG1	3:PH:219:THR:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PH:350:LYS:HE3	4:PI:181:VAL:H	1.71	0.55
27:Q:25:ARG:O	27:Q:29:ILE:HG12	2.06	0.55
30:Q1:1429:ALA:HB2	30:Q1:1499:LYS:HG3	1.88	0.55
30:Q3:1342:GLU:O	30:Q3:1346:GLU:N	2.39	0.55
3:QB:175:VAL:HG22	3:QB:177:ASP:H	1.69	0.55
4:QE:271:THR:O	4:QE:377:MET:N	2.28	0.55
4:QG:102:ASN:HB3	4:QG:105:ARG:HB2	1.87	0.55
4:QI:301:GLN:HE21	4:QI:377:MET:HE2	1.71	0.55
31:R3:273:GLY:O	31:R3:276:ARG:NE	2.38	0.55
4:RC:10:GLY:O	4:RC:14:VAL:HG13	2.06	0.55
4:RC:103:TYR:HB2	4:RC:186:ASN:HB2	1.87	0.55
4:RC:265:ILE:HD12	4:RC:432:TYR:CE1	2.41	0.55
3:RF:309:ARG:H	3:RF:372:THR:HG1	1.51	0.55
4:RG:119:LEU:HD23	4:RG:122:ILE:HD11	1.88	0.55
4:RG:206:ASN:HA	4:RG:209:ILE:HD12	1.89	0.55
3:RH:6:HIS:HE1	3:RH:8:GLN:OE1	1.89	0.55
4:RI:265:ILE:HD12	4:RI:432:TYR:CE1	2.42	0.55
4:RM:89:PRO:HD2	4:SM:280:LYS:HZ3	1.71	0.55
4:RM:161:TYR:O	4:RM:166:LYS:NZ	2.34	0.55
3:SD:54:ALA:HB3	3:SD:58:LYS:HB2	1.88	0.55
3:SF:419:VAL:HG12	3:SF:423:GLN:HE22	1.70	0.55
3:SH:282:ARG:NH2	3:SH:292:GLN:OE1	2.27	0.55
3:SJ:141:GLY:HA3	39:SJ:501:GTP:H5"	1.88	0.55
3:SL:11:GLN:HE21	39:SL:501:GTP:H3'	1.71	0.55
4:TK:21:TRP:HE1	4:TK:65:ALA:HB3	1.71	0.55
4:TK:392:ASP:OD1	4:TK:393:HIS:N	2.39	0.55
4:UA:226:ASN:ND2	4:UA:367:ASP:OD2	2.39	0.55
4:UI:9:VAL:HG11	4:UI:150:ALA:HB2	1.87	0.55
3:UJ:3:GLU:HG2	3:UJ:130:LEU:HD13	1.87	0.55
4:UK:22:GLU:HA	4:UK:83:TYR:HE2	1.70	0.55
4:UK:23:LEU:HD11	4:UK:229:ARG:HA	1.88	0.55
4:VA:254:GLU:OE1	4:VA:254:GLU:N	2.38	0.55
4:VG:105:ARG:O	4:VG:109:THR:OG1	2.21	0.55
3:VL:84:ILE:O	3:VL:86:ARG:NH1	2.39	0.55
3:VL:117:LEU:HD11	3:VL:154:LYS:HD2	1.88	0.55
4:WG:192:HIS:HA	4:WG:195:LEU:HD23	1.87	0.55
3:WJ:16:ILE:HD13	3:WJ:226:ASN:ND2	2.21	0.55
34:XB:1:MET:HE1	34:XB:24:ILE:HD11	1.87	0.55
34:XD:3:LYS:HE3	35:XK:62:ARG:HG2	1.86	0.55
35:XH:141:LEU:HB3	35:XH:180:ILE:HD13	1.86	0.55
35:XK:88:ASP:OD1	35:XK:91:HIS:N	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:XM:66:PRO:HA	35:XM:81:LYS:HE3	1.88	0.55
37:YD:76:LEU:HA	37:YD:79:LEU:HB2	1.88	0.55
37:YF:141:ILE:HA	37:YF:144:VAL:HB	1.87	0.55
37:YG:127:CYS:SG	37:YG:128:ASP:N	2.77	0.55
37:YJ:90:THR:HG21	37:YJ:154:HIS:HE2	1.71	0.55
37:YN:110:LEU:HD23	37:YN:140:LEU:HD22	1.89	0.55
37:YR:25:PHE:HA	37:YR:65:ILE:HD12	1.88	0.55
1:A:24:LYS:HD2	1:A:27:ASN:HD21	1.70	0.55
2:A3:28:GLU:HA	2:A3:31:ARG:HD3	1.87	0.55
3:AH:2:ARG:HB3	3:AH:131:GLN:NE2	2.22	0.55
3:AJ:372:THR:HG21	3:AJ:426:GLN:HB2	1.88	0.55
4:AK:33:ASP:OD1	4:AK:34:GLY:N	2.40	0.55
4:AM:319:TYR:N	4:AM:354:GLY:O	2.38	0.55
4:AM:329:ASN:OD1	4:AM:330:ALA:N	2.40	0.55
5:B9:309:MET:O	5:B9:312:LYS:HB3	2.06	0.55
3:BD:65:LEU:HD21	3:BD:73:MET:HG2	1.86	0.55
3:BD:347:ASN:HB3	4:BE:178:SER:HB3	1.87	0.55
3:BF:359:ARG:HE	15:H3:4:THR:HB	1.71	0.55
3:BH:309:ARG:HH21	3:BH:426:GLN:HG2	1.71	0.55
4:BI:5:ILE:HD13	4:BI:64:ARG:HB3	1.88	0.55
4:BI:168:GLU:HB2	4:BI:201:ALA:HA	1.88	0.55
4:BI:319:TYR:HE2	4:BI:328:VAL:HG13	1.71	0.55
4:BK:357:TYR:CE2	14:G6:209:PRO:HG2	2.41	0.55
3:BL:269:GLY:N	3:BL:367:PHE:O	2.39	0.55
4:BM:34:GLY:HA2	4:BM:86:LEU:HD21	1.88	0.55
4:BM:208:ALA:H	4:BM:304:LYS:HZ1	1.54	0.55
6:C:138:THR:HB	6:C:183:LEU:HB3	1.88	0.55
6:C:355:LEU:HD11	38:a:84:GLN:HE21	1.71	0.55
7:C4:205:ARG:HD2	7:C4:465:THR:HG23	1.88	0.55
4:CG:208:ALA:N	4:CG:304:LYS:HZ1	2.04	0.55
4:CG:386:GLU:HA	4:CG:389:ALA:HB3	1.88	0.55
3:CH:132:GLY:HA2	3:CH:162:ARG:HB3	1.88	0.55
3:CH:182:PRO:HB3	3:CH:381:ILE:HD11	1.88	0.55
4:CM:79:ARG:HH22	15:H6:221:TYR:HD1	1.52	0.55
7:Cb:215:ALA:O	7:Cb:219:LEU:HG	2.05	0.55
7:Cc:205:ARG:HH21	7:Cc:210:LEU:HA	1.70	0.55
7:Cd:225:THR:HB	7:Cd:336:MET:HE1	1.87	0.55
8:D3:309:GLN:NE2	8:D3:313:ASP:OD2	2.40	0.55
8:D8:276:VAL:HG12	8:D8:280:LYS:HZ2	1.71	0.55
8:D9:332:GLN:HG2	8:D9:402:LEU:HD13	1.88	0.55
8:D9:346:LYS:HZ3	8:Da:89:GLY:HA2	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DD:209:ASP:O	3:DD:213:ARG:HG2	2.06	0.55
4:DG:319:TYR:HB2	4:DG:355:ILE:HD13	1.88	0.55
4:DI:286:LEU:HD11	4:DI:373:ARG:H	1.71	0.55
4:DK:319:TYR:N	4:DK:354:GLY:O	2.40	0.55
3:EB:218:THR:OG1	3:EB:219:THR:N	2.39	0.55
3:EB:326:VAL:HG21	3:EB:351:THR:HG21	1.88	0.55
4:EC:188:ILE:HG12	4:EC:421:ALA:HB1	1.89	0.55
3:ED:270:PHE:CE1	3:ED:366:THR:HG23	2.41	0.55
4:EG:392:ASP:OD1	4:EG:393:HIS:N	2.39	0.55
3:EH:36:TYR:OH	3:EH:43:GLN:NE2	2.39	0.55
3:EJ:170:VAL:N	3:EJ:202:ILE:O	2.34	0.55
3:EJ:375:GLN:HA	3:EJ:378:PHE:CZ	2.41	0.55
4:EK:10:GLY:O	4:EK:14:VAL:HG13	2.06	0.55
11:F2:112:TRP:NE1	11:F2:115:ARG:HH21	2.04	0.55
11:F4:153:LYS:HD3	11:F4:257:LYS:HD2	1.88	0.55
3:FF:20:PHE:CE1	3:FF:233:MET:HG3	2.40	0.55
3:FF:32:PRO:O	3:FF:83:GLN:NE2	2.30	0.55
4:FI:144:GLY:N	39:FI:501:GTP:O2B	2.38	0.55
3:FJ:12:CYS:SG	3:FJ:13:GLY:N	2.79	0.55
4:FK:224:TYR:HE2	39:FK:501:GTP:C5	2.24	0.55
11:Fa:155:GLU:HA	11:Fa:158:TYR:HD2	1.70	0.55
11:Fa:455:LEU:HD13	11:Fa:458:LYS:HZ3	1.69	0.55
11:Fb:399:ARG:CZ	11:Fb:413:GLN:HE21	2.19	0.55
11:Fc:336:PHE:O	11:Fc:339:THR:OG1	2.20	0.55
11:Ff:86:LEU:HB2	11:Fg:208:HIS:CE1	2.41	0.55
12:G:218:GLN:HA	12:G:221:LYS:HD2	1.88	0.55
13:G2:37:TYR:HB2	3:MH:212:PHE:CG	2.41	0.55
14:G6:562:ILE:O	14:G6:566:PHE:HD2	1.88	0.55
4:GA:34:GLY:HA2	4:GA:86:LEU:HD21	1.88	0.55
4:GA:68:VAL:HG12	4:GA:93:ILE:HB	1.87	0.55
4:GA:262:TYR:OH	3:GB:391:ARG:O	2.23	0.55
4:GG:154:MET:HE1	4:GG:197:HIS:HB2	1.89	0.55
3:GL:305:PRO:HB2	3:GL:310:TYR:HE1	1.70	0.55
3:GL:415:MET:O	3:GL:419:VAL:HG23	2.05	0.55
4:HA:300:ASN:ND2	4:HA:300:ASN:O	2.39	0.55
3:HB:11:GLN:HG3	39:HB:501:GTP:PA	2.45	0.55
4:HC:208:ALA:H	4:HC:304:LYS:NZ	2.01	0.55
4:HI:272:TYR:HD2	4:HI:275:VAL:HG13	1.71	0.55
4:HK:319:TYR:N	4:HK:354:GLY:O	2.40	0.55
3:IB:317:PHE:HB3	3:IB:321:MET:HE3	1.87	0.55
3:IH:415:MET:O	3:IH:419:VAL:HG23	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JB:309:ARG:HE	3:JB:426:GLN:HE21	1.54	0.55
3:JD:120:VAL:O	3:JD:124:ALA:N	2.32	0.55
4:JE:207:GLU:HB2	4:JE:304:LYS:NZ	2.22	0.55
3:JH:173:PRO:O	3:JH:380:ARG:NH2	2.40	0.55
3:JL:174:LYS:HG3	3:JL:175:VAL:HG12	1.87	0.55
3:KB:324:LYS:HD2	4:KC:221:ARG:HA	1.88	0.55
3:KF:43:GLN:O	3:KF:241:ARG:NH2	2.40	0.55
3:KL:70:PRO:HA	3:KL:73:MET:HE2	1.87	0.55
3:LF:52:ASN:OD1	3:LF:62:ARG:NH1	2.37	0.55
3:LH:322:SER:N	3:LH:325:GLU:OE2	2.38	0.55
3:LH:380:ARG:O	3:LH:384:GLN:HG2	2.06	0.55
4:LI:75:VAL:HG23	4:LI:92:LEU:HD12	1.89	0.55
4:LI:224:TYR:HB3	4:LI:228:ASN:ND2	2.21	0.55
3:MB:322:SER:N	3:MB:325:GLU:OE2	2.33	0.55
3:MD:20:PHE:CZ	3:MD:24:ILE:HD11	2.41	0.55
3:MD:28:HIS:HD2	3:MD:43:GLN:HB2	1.70	0.55
3:MJ:46:ARG:HH12	4:MK:73:THR:HG23	1.72	0.55
3:ML:218:THR:OG1	3:ML:219:THR:N	2.38	0.55
4:MM:208:ALA:H	4:MM:304:LYS:NZ	2.03	0.55
3:NB:77:ARG:HD3	3:NB:90:PHE:HE2	1.71	0.55
3:ND:111:GLU:HG2	3:ND:112:LEU:HD12	1.88	0.55
4:NG:51:THR:HG23	4:NG:52:PHE:CD2	2.40	0.55
3:OD:175:VAL:HG22	3:OD:177:ASP:H	1.71	0.55
4:OE:67:PHE:HB2	4:OE:92:LEU:HD13	1.87	0.55
4:OE:83:TYR:HB3	4:OE:86:LEU:HD12	1.89	0.55
3:OF:77:ARG:O	3:OF:77:ARG:NH1	2.36	0.55
3:OL:291:GLN:NE2	3:OL:295:ASP:OD1	2.39	0.55
4:PG:319:TYR:HB2	4:PG:355:ILE:HD13	1.87	0.55
4:PK:245:ASP:O	4:PK:356:ASN:ND2	2.39	0.55
30:Q2:1437:TYR:CE1	30:Q2:1496:TYR:HB2	2.41	0.55
30:Q2:1441:LEU:O	30:Q2:1444:GLN:NE2	2.39	0.55
3:QB:214:THR:HG21	3:QB:273:LEU:HB3	1.87	0.55
4:QC:53:PHE:O	4:QC:64:ARG:NH1	2.38	0.55
3:QD:28:HIS:ND1	3:QD:43:GLN:HB2	2.20	0.55
3:QF:52:ASN:OD1	3:QF:62:ARG:NH1	2.39	0.55
4:QG:316:CYS:N	4:QG:378:LEU:O	2.30	0.55
4:QI:316:CYS:N	4:QI:378:LEU:O	2.39	0.55
3:QJ:152:ILE:HD13	3:QJ:164:MET:HE2	1.88	0.55
4:QK:271:THR:HB	4:QK:377:MET:HB2	1.88	0.55
4:RC:245:ASP:O	4:RC:356:ASN:ND2	2.39	0.55
4:RC:264:ARG:O	4:RC:266:HIS:ND1	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RH:166:THR:OG1	3:RH:198:GLU:O	2.22	0.55
3:RJ:132:GLY:HA2	3:RJ:162:ARG:HB3	1.88	0.55
32:S:362:GLU:OE1	32:S:363:THR:N	2.39	0.55
3:SF:103:LYS:O	3:SF:108:GLU:N	2.29	0.55
3:SH:4:ILE:HD11	3:SH:131:GLN:HB2	1.88	0.55
4:SI:1:MET:SD	4:SI:2:ARG:N	2.79	0.55
4:SI:146:GLY:N	39:SI:501:GTP:O2B	2.34	0.55
4:TC:88:HIS:HA	4:UA:283:HIS:HE1	1.71	0.55
4:TC:272:TYR:CZ	4:TC:274:PRO:HG2	2.41	0.55
4:TC:274:PRO:HG3	4:TC:374:ALA:HA	1.88	0.55
3:TD:285:THR:O	3:TD:288:GLU:HG3	2.06	0.55
3:TF:328:GLU:OE1	3:TF:332:ASN:ND2	2.38	0.55
4:TG:52:PHE:HZ	4:TG:239:THR:HB	1.71	0.55
3:TH:258:VAL:HG13	3:TH:263:LEU:HB2	1.88	0.55
4:TI:142:GLY:HA3	4:TI:183:GLU:HG2	1.88	0.55
3:UB:155:ILE:HA	3:UB:158:GLU:HB2	1.89	0.55
4:UC:214:ARG:NH1	4:UC:215:ARG:HG3	2.21	0.55
3:UD:39:ASP:OD1	3:UD:43:GLN:NE2	2.39	0.55
4:UI:205:ASP:OD2	4:UI:304:LYS:NZ	2.33	0.55
3:UJ:322:SER:N	3:UJ:325:GLU:OE2	2.38	0.55
3:UL:372:THR:HG21	3:UL:426:GLN:HG3	1.87	0.55
3:VB:380:ARG:O	3:VB:384:GLN:HG2	2.06	0.55
3:VF:73:MET:HA	3:VF:76:VAL:HB	1.87	0.55
3:VL:166:THR:OG1	3:VL:198:GLU:O	2.23	0.55
33:W:316:LYS:HA	33:W:319:ASN:HB2	1.88	0.55
3:WB:94:GLN:NE2	35:XH:72:ASP:HB2	2.16	0.55
4:WC:172:TYR:N	4:WC:204:VAL:O	2.32	0.55
3:WD:12:CYS:HA	39:WD:501:GTP:N2	2.21	0.55
3:WF:16:ILE:HD13	3:WF:226:ASN:ND2	2.22	0.55
4:WG:1:MET:O	4:WG:131:GLY:HA3	2.06	0.55
3:WJ:39:ASP:OD1	3:WJ:43:GLN:NE2	2.38	0.55
3:WJ:419:VAL:HG12	3:WJ:423:GLN:HE22	1.70	0.55
3:WL:194:GLU:OE1	3:WL:195:ASN:ND2	2.39	0.55
34:XD:86:TYR:HD1	34:XD:107:ASN:HD21	1.54	0.55
37:YO:18:PHE:HA	37:YO:21:GLN:HB3	1.88	0.55
37:YU:136:GLY:O	37:YU:140:LEU:N	2.37	0.55
1:A:212:GLU:O	1:A:216:ILE:HG12	2.06	0.55
2:A3:241:LEU:O	2:A3:245:ILE:HD12	2.06	0.55
2:A3:336:ARG:HH12	2:A4:59:VAL:N	2.03	0.55
3:AD:60:VAL:HG23	3:AD:86:ARG:HH11	1.72	0.55
4:AE:67:PHE:HB2	4:AE:92:LEU:HD13	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:288:VAL:HG21	4:AE:328:VAL:HG22	1.88	0.55
4:AG:423:GLU:HA	4:AG:426:ALA:HB3	1.88	0.55
3:AH:12:CYS:SG	39:AH:501:GTP:H5'	2.47	0.55
3:AJ:83:GLN:O	3:AJ:86:ARG:NH2	2.39	0.55
3:AL:322:SER:N	3:AL:325:GLU:OE2	2.39	0.55
4:AM:102:ASN:HB3	4:AM:105:ARG:HB2	1.89	0.55
5:B2:7:LYS:CE	8:D5:330:THR:HG23	2.36	0.55
5:B6:119:LEU:O	5:B6:122:SER:OG	2.22	0.55
5:B7:44:ILE:HG22	19:J2:97:ARG:HH22	1.72	0.55
5:B7:78:LEU:HD13	5:B7:179:LYS:HZ2	1.71	0.55
4:BC:220:GLU:O	4:BC:221:ARG:NE	2.38	0.55
4:BE:154:MET:HE1	4:BE:197:HIS:HB2	1.87	0.55
4:BE:258:ASN:HA	3:BF:394:PHE:HE2	1.72	0.55
3:BF:139:LEU:N	3:BF:168:SER:OG	2.39	0.55
3:BF:164:MET:HG2	3:BF:197:ASP:CG	2.30	0.55
4:BG:172:TYR:HD1	4:BG:203:MET:HG2	1.71	0.55
4:BI:102:ASN:HB3	4:BI:105:ARG:HB2	1.89	0.55
3:BJ:235:GLY:O	3:BJ:238:THR:OG1	2.22	0.55
4:BK:88:HIS:HA	4:CK:283:HIS:CE1	2.41	0.55
7:C3:179:ARG:O	7:C3:183:ARG:HG2	2.05	0.55
7:C7:161:THR:O	7:C7:164:LEU:HG	2.06	0.55
7:C7:339:GLN:HA	7:C7:342:LYS:HE3	1.87	0.55
7:C9:229:CYS:O	7:C9:233:MET:HG2	2.06	0.55
3:CD:33:THR:HB	14:G4:349:ARG:HH22	1.71	0.55
3:CF:209:ASP:O	3:CF:213:ARG:HG2	2.07	0.55
3:CH:328:GLU:OE1	3:CH:332:ASN:ND2	2.35	0.55
4:CI:135:PHE:HD2	4:CI:166:LYS:HG3	1.71	0.55
3:CJ:84:ILE:O	3:CJ:86:ARG:NH1	2.38	0.55
3:CL:12:CYS:SG	3:CL:13:GLY:N	2.79	0.55
3:CL:36:TYR:OH	3:CL:43:GLN:NE2	2.30	0.55
8:D9:162:ARG:HH22	8:D9:168:VAL:H	1.54	0.55
8:D9:348:ALA:O	8:D9:351:ARG:N	2.34	0.55
8:D9:397:ASP:OD1	8:D9:398:ALA:N	2.39	0.55
4:DA:214:ARG:NH1	4:DA:215:ARG:HG3	2.21	0.55
4:DC:79:ARG:HH21	4:DC:92:LEU:HB3	1.71	0.55
4:DC:423:GLU:HA	4:DC:426:ALA:HB3	1.88	0.55
3:DD:17:GLY:O	3:DD:21:TRP:N	2.33	0.55
3:DD:47:ILE:HG13	3:DD:51:TYR:HB2	1.87	0.55
3:DF:139:LEU:N	3:DF:168:SER:OG	2.38	0.55
3:DF:299:MET:SD	3:DF:301:ALA:N	2.79	0.55
3:DF:309:ARG:NH2	3:DF:426:GLN:O	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DG:214:ARG:NH1	4:DG:215:ARG:HG3	2.20	0.55
3:DH:48:ASN:OD1	15:H5:288:PHE:HB3	2.05	0.55
4:EE:32:PRO:O	4:EE:85:GLN:NE2	2.38	0.55
3:EF:246:LEU:HB2	3:EF:352:ALA:HB1	1.88	0.55
3:EF:276:ARG:HD3	14:G5:406:CYS:SG	2.46	0.55
4:EG:144:GLY:N	39:EG:501:GTP:O2B	2.39	0.55
4:EG:220:GLU:HG3	4:EG:221:ARG:HG2	1.87	0.55
4:EK:408:TYR:HB3	4:EK:413:MET:HE2	1.88	0.55
4:EK:411:GLU:OE2	4:EK:413:MET:HE1	2.07	0.55
3:EL:418:LEU:HA	3:EL:421:GLU:HB3	1.87	0.55
11:F3:253:ASP:OD1	11:F3:254:ILE:N	2.40	0.55
11:F3:356:LYS:O	11:F3:359:THR:OG1	2.22	0.55
11:F6:180:ALA:O	11:F6:184:VAL:HG23	2.07	0.55
11:F6:399:ARG:NH2	11:F6:408:CYS:O	2.37	0.55
4:FA:311:LYS:NZ	4:FA:343:PHE:O	2.38	0.55
3:FD:357:PRO:O	3:FD:359:ARG:NH1	2.34	0.55
3:FF:324:LYS:HE3	4:FG:210:TYR:CE1	2.41	0.55
4:FK:144:GLY:N	39:FK:501:GTP:O2B	2.39	0.55
11:Fb:415:ARG:NH2	11:Fc:138:THR:HA	2.22	0.55
11:Ff:174:LYS:HE2	11:Ff:236:ILE:HG23	1.89	0.55
14:G4:92:LYS:HD3	14:G4:96:ILE:HA	1.88	0.55
14:G4:323:TYR:HB3	14:G4:325:LEU:HD23	1.87	0.55
14:G4:566:PHE:CE1	14:G4:585:ILE:HB	2.42	0.55
3:GB:285:THR:O	3:GB:288:GLU:HG3	2.06	0.55
4:GC:12:ALA:HB2	39:GC:501:GTP:H5"	1.89	0.55
4:GG:91:GLN:HB3	4:GG:121:ARG:HH21	1.71	0.55
4:GG:216:ASN:HD21	4:GG:275:VAL:HG23	1.71	0.55
4:GI:1:MET:O	4:GI:131:GLY:HA3	2.06	0.55
4:GI:316:CYS:HB3	4:GI:378:LEU:HB2	1.87	0.55
4:HE:113:GLU:OE1	4:HE:113:GLU:N	2.37	0.55
3:HF:32:PRO:C	3:HF:83:GLN:HE21	2.15	0.55
3:HF:309:ARG:O	3:HF:371:SER:OG	2.20	0.55
4:HI:319:TYR:HE2	4:HI:328:VAL:HG13	1.70	0.55
4:HI:363:VAL:H	4:HI:368:LEU:HD21	1.71	0.55
3:HL:257:MET:HG3	3:HL:258:VAL:HG23	1.88	0.55
17:I2:57:LEU:HB3	17:I2:69:PHE:CZ	2.42	0.55
3:ID:282:ARG:NH2	3:ID:292:GLN:OE1	2.28	0.55
3:IH:60:VAL:HG23	3:IH:86:ARG:HH11	1.70	0.55
4:II:22:GLU:O	4:II:26:LEU:HD23	2.07	0.55
4:JA:36:MET:HE3	4:JA:36:MET:HA	1.86	0.55
4:JC:76:ASP:OD1	4:JC:79:ARG:NH1	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JJ:143:THR:HG22	3:JJ:147:MET:HE2	1.88	0.55
3:KB:292:GLN:O	3:KB:298:ASN:ND2	2.38	0.55
3:KH:7:LEU:HD13	3:KH:64:VAL:HB	1.86	0.55
3:KH:84:ILE:O	3:KH:86:ARG:NH1	2.39	0.55
22:L2:247:HIS:HB3	36:Y:42:THR:HG23	1.88	0.55
4:LA:392:ASP:OD1	4:LA:393:HIS:N	2.39	0.55
3:LB:235:GLY:O	3:LB:238:THR:OG1	2.23	0.55
4:LC:265:ILE:HB	4:LC:432:TYR:HE1	1.71	0.55
3:LD:52:ASN:OD1	3:LD:62:ARG:NH1	2.39	0.55
3:LF:12:CYS:SG	39:LF:501:GTP:H5'	2.46	0.55
3:LF:13:GLY:HA2	3:LF:16:ILE:HB	1.89	0.55
4:LG:319:TYR:HB2	4:LG:355:ILE:HD13	1.89	0.55
3:LH:217:LEU:HD11	3:LH:220:PRO:HB3	1.88	0.55
3:LJ:269:GLY:N	3:LJ:367:PHE:O	2.38	0.55
3:MB:176:SER:O	3:MB:178:THR:N	2.40	0.55
3:MB:359:ARG:HD2	3:MB:359:ARG:O	2.07	0.55
4:ME:46:ASP:OD1	4:ME:50:ASN:ND2	2.38	0.55
3:ML:28:HIS:ND1	3:ML:28:HIS:O	2.37	0.55
3:ML:391:ARG:NH1	3:ML:392:LYS:HG3	2.22	0.55
4:MM:388:TRP:HB3	4:MM:425:LEU:HD11	1.88	0.55
25:N:61:LYS:HZ2	25:N:65:SER:HG	1.52	0.55
3:NB:380:ARG:O	3:NB:384:GLN:HG2	2.07	0.55
3:NH:117:LEU:HD11	3:NH:154:LYS:HD2	1.87	0.55
4:OA:11:GLN:O	4:OA:14:VAL:HG22	2.06	0.55
39:OB:501:GTP:O3G	39:OB:501:GTP:O3'	2.15	0.55
3:OD:235:GLY:O	3:OD:238:THR:OG1	2.20	0.55
4:OG:125:LEU:HD13	4:OG:128:LEU:HD21	1.87	0.55
4:OG:214:ARG:NH1	4:OG:215:ARG:HG3	2.21	0.55
4:OG:399:TYR:HB3	4:OG:422:ARG:HH12	1.72	0.55
4:OI:154:MET:HE2	4:OI:198:SER:HA	1.88	0.55
4:OK:1:MET:O	4:OK:131:GLY:HA3	2.06	0.55
4:PA:5:ILE:HD13	4:PA:64:ARG:HB3	1.89	0.55
3:PB:52:ASN:OD1	3:PB:62:ARG:NH1	2.39	0.55
4:PC:401:LYS:C	4:PC:402:ARG:HD3	2.31	0.55
4:PG:84:ARG:HH21	37:YJ:126:SER:HA	1.71	0.55
3:PH:324:LYS:HD2	4:PI:221:ARG:HA	1.89	0.55
3:PJ:378:PHE:CD1	3:PJ:419:VAL:HG22	2.40	0.55
3:PL:36:TYR:CE2	3:PL:44:LEU:HD13	2.41	0.55
4:PM:214:ARG:NH1	4:PM:215:ARG:HG3	2.21	0.55
30:Q1:1471:VAL:HG12	30:Q1:1475:ARG:HE	1.70	0.55
3:QD:309:ARG:N	3:QD:372:THR:OG1	2.32	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:QI:236:SER:O	4:QI:243:ARG:NH2	2.36	0.55
3:RB:15:GLN:HG2	3:RB:222:TYR:CE2	2.40	0.55
4:RC:53:PHE:O	4:RC:64:ARG:NH1	2.40	0.55
3:RD:65:LEU:HD21	3:RD:73:MET:HG2	1.87	0.55
3:RD:346:PRO:HD2	4:RE:398:MET:HE1	1.87	0.55
3:RJ:292:GLN:O	3:RJ:298:ASN:ND2	2.39	0.55
4:RK:306:ASP:OD2	4:RK:309:HIS:ND1	2.38	0.55
3:RL:3:GLU:HG2	3:RL:130:LEU:HD23	1.89	0.55
4:RM:205:ASP:OD2	4:RM:304:LYS:NZ	2.32	0.55
4:SI:9:VAL:HG11	4:SI:150:ALA:HB2	1.88	0.55
3:SJ:194:GLU:OE1	3:SJ:195:ASN:ND2	2.39	0.55
3:SL:375:GLN:HA	3:SL:378:PHE:CZ	2.41	0.55
4:SM:144:GLY:N	39:SM:501:GTP:O2B	2.39	0.55
3:TB:292:GLN:O	3:TB:298:ASN:ND2	2.39	0.55
3:TD:11:GLN:HE21	39:TD:501:GTP:H3'	1.70	0.55
3:TF:3:GLU:HG2	3:TF:130:LEU:HD23	1.89	0.55
3:TF:11:GLN:HE21	39:TF:501:GTP:H3'	1.71	0.55
3:TF:324:LYS:HE2	4:TG:222:PRO:HG2	1.88	0.55
3:TJ:3:GLU:OE2	3:TJ:127:CYS:HB2	2.06	0.55
4:TK:9:VAL:HG22	4:TK:146:GLY:HA2	1.89	0.55
3:TL:222:TYR:HD1	3:TL:225:LEU:HD22	1.71	0.55
3:TN:376:GLU:HA	3:TN:379:LYS:NZ	2.22	0.55
33:U:197:ILE:HG22	33:V:538:VAL:HG22	1.88	0.55
3:UF:415:MET:O	3:UF:419:VAL:HG23	2.06	0.55
4:UG:208:ALA:H	4:UG:304:LYS:HZ1	1.55	0.55
4:UK:272:TYR:CZ	4:UK:274:PRO:HG2	2.41	0.55
4:VC:161:TYR:O	4:VC:166:LYS:NZ	2.30	0.55
3:VD:58:LYS:HE2	3:WD:281:TYR:HE1	1.70	0.55
3:VF:84:ILE:O	3:VF:86:ARG:NH1	2.39	0.55
3:VF:316:VAL:HG22	3:VF:352:ALA:HB3	1.86	0.55
3:VF:374:ILE:HG23	3:VF:377:LEU:HD12	1.89	0.55
3:VL:309:ARG:H	3:VL:372:THR:HG1	1.50	0.55
3:WB:419:VAL:HG12	3:WB:423:GLN:HE22	1.70	0.55
3:WF:101:TRP:HB2	3:WF:184:ASN:HD22	1.70	0.55
4:WI:269:LEU:N	4:WI:379:SER:O	2.35	0.55
3:WJ:4:ILE:HD11	3:WJ:131:GLN:HB2	1.88	0.55
4:WK:426:ALA:O	4:WK:430:LYS:HE2	2.04	0.55
35:XK:176:GLN:N	35:XK:176:GLN:OE1	2.40	0.55
37:YA:76:LEU:HA	37:YA:79:LEU:HB2	1.88	0.55
37:YC:91:PRO:HA	37:YC:94:ASN:HB2	1.89	0.55
37:YR:29:LEU:HB3	37:YR:33:ARG:HH12	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:YV:25:PHE:HE1	37:YV:66:LEU:HA	1.71	0.55
2:A2:231:GLN:HA	2:A2:234:ASN:ND2	2.22	0.55
3:AD:12:CYS:SG	3:AD:13:GLY:N	2.80	0.55
3:AD:152:ILE:HD12	3:AD:155:ILE:HD11	1.88	0.55
4:AE:205:ASP:OD2	4:AE:304:LYS:NZ	2.27	0.55
3:AF:189:VAL:HA	3:AF:192:LEU:HB2	1.89	0.55
4:AI:22:GLU:O	4:AI:26:LEU:HD23	2.06	0.55
4:AI:316:CYS:HB3	4:AI:378:LEU:HB2	1.88	0.55
3:AJ:7:LEU:HD13	3:AJ:64:VAL:HB	1.88	0.55
4:AK:1:MET:N	4:AK:130:THR:OG1	2.39	0.55
5:B2:176:HIS:HA	5:B2:179:LYS:HZ3	1.72	0.55
5:B2:202:LYS:HA	8:D4:212:GLU:OE2	2.06	0.55
5:B7:202:LYS:H	5:B8:315:HIS:CD2	2.23	0.55
3:BB:135:LEU:HD21	3:BB:151:LEU:HD11	1.88	0.55
4:BC:208:ALA:H	4:BC:304:LYS:NZ	2.04	0.55
3:BD:13:GLY:HA2	3:BD:16:ILE:HB	1.88	0.55
3:BD:322:SER:N	3:BD:325:GLU:OE2	2.39	0.55
4:BE:67:PHE:HB2	4:BE:92:LEU:HD13	1.87	0.55
4:BE:196:GLU:OE1	4:BE:196:GLU:N	2.30	0.55
3:BF:173:PRO:O	3:BF:380:ARG:NH2	2.40	0.55
3:BL:78:SER:HB3	14:G6:322:LYS:HE2	1.87	0.55
3:BL:81:PHE:O	3:BL:84:ILE:HG22	2.05	0.55
4:BM:119:LEU:HA	4:BM:122:ILE:HG12	1.88	0.55
7:C7:143:THR:HG22	7:C8:399:ARG:HH12	1.72	0.55
3:CB:68:LEU:HD12	3:CB:97:ALA:HB2	1.88	0.55
3:CB:166:THR:OG1	3:CB:198:GLU:O	2.24	0.55
4:CE:278:ALA:O	4:CE:370:LYS:NZ	2.39	0.55
4:CG:206:ASN:HA	4:CG:209:ILE:HD12	1.88	0.55
4:CG:324:VAL:HG11	3:CH:219:THR:HB	1.89	0.55
3:CH:99:ASN:OD1	3:CH:142:GLY:HA3	2.06	0.55
3:CH:132:GLY:HA3	3:CH:163:ILE:H	1.72	0.55
3:CJ:12:CYS:SG	39:CJ:501:GTP:H5'	2.47	0.55
4:CM:245:ASP:O	4:CM:356:ASN:ND2	2.39	0.55
6:D:195:LEU:O	6:D:212:ARG:NH1	2.39	0.55
8:D2:165:PRO:HG2	8:D2:418:VAL:HG11	1.87	0.55
8:D2:214:ASN:OD1	8:D2:215:TRP:N	2.39	0.55
8:D4:209:GLU:OE1	10:E3:142:ARG:NH2	2.39	0.55
8:D9:255:GLU:OE1	8:D9:255:GLU:N	2.34	0.55
8:D9:393:GLU:O	8:D9:396:GLN:HG2	2.06	0.55
4:DA:187:SER:O	4:DA:190:THR:OG1	2.18	0.55
4:DC:89:PRO:HD2	4:EC:280:LYS:NZ	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DD:117:LEU:HD11	3:DD:154:LYS:HD2	1.88	0.55
3:DD:229:VAL:O	3:DD:232:THR:OG1	2.24	0.55
3:DF:317:PHE:O	3:DF:354:CYS:N	2.27	0.55
3:DJ:47:ILE:HG13	3:DJ:51:TYR:HB2	1.87	0.55
4:EA:79:ARG:HE	4:EA:92:LEU:HD22	1.72	0.55
4:EC:33:ASP:OD1	4:EC:34:GLY:N	2.39	0.55
4:EE:166:LYS:N	4:EE:199:ASP:OD2	2.39	0.55
4:EG:10:GLY:O	4:EG:13:GLY:N	2.39	0.55
4:EG:67:PHE:HD1	4:EG:91:GLN:HE22	1.52	0.55
11:F2:470:MET:HG3	11:F2:473:ARG:NH2	2.22	0.55
11:F3:163:LEU:O	11:F3:167:ASN:ND2	2.39	0.55
11:F3:363:LYS:HB2	11:F4:110:ARG:HH12	1.71	0.55
11:F4:239:GLN:HG2	11:F4:317:LEU:HD21	1.89	0.55
11:F9:217:ARG:NH2	11:F9:335:GLN:OE1	2.37	0.55
4:FA:168:GLU:HB2	4:FA:201:ALA:HA	1.89	0.55
3:FB:403:MET:HG3	3:FB:407:GLU:OE2	2.06	0.55
4:FE:256:GLN:O	4:FE:260:VAL:HG12	2.06	0.55
3:FF:214:THR:HG21	3:FF:273:LEU:HB3	1.86	0.55
4:FG:171:ILE:HD12	4:FG:204:VAL:HG13	1.86	0.55
3:FJ:205:GLU:HA	3:FJ:208:TYR:HD2	1.71	0.55
4:FK:263:PRO:HB2	4:FK:264:ARG:NH1	2.21	0.55
4:FK:401:LYS:C	4:FK:402:ARG:HD3	2.32	0.55
11:Fj:314:SER:O	11:Fj:318:ARG:HG3	2.06	0.55
13:G3:295:GLN:NE2	13:G3:296:ARG:O	2.39	0.55
14:G4:236:TRP:HB2	14:G4:351:VAL:HG12	1.88	0.55
14:G4:546:GLU:HA	14:G4:549:ILE:HD12	1.89	0.55
3:GD:277:GLY:O	3:GD:280:GLN:NE2	2.39	0.55
3:GF:83:GLN:O	3:GF:86:ARG:NH2	2.39	0.55
3:GH:282:ARG:NH2	3:GH:292:GLN:OE1	2.29	0.55
15:H3:309:GLN:OE1	15:H3:309:GLN:N	2.28	0.55
15:H6:44:THR:O	15:H6:47:SER:OG	2.19	0.55
4:HC:54:SER:N	4:HC:62:VAL:O	2.40	0.55
4:HC:66:VAL:HA	4:HC:91:GLN:HE21	1.71	0.55
4:HC:186:ASN:OD1	4:HC:187:SER:N	2.40	0.55
4:HC:392:ASP:OD1	4:HC:393:HIS:N	2.39	0.55
4:HE:52:PHE:HE2	4:HE:243:ARG:HH11	1.54	0.55
4:HE:180:ALA:HB3	4:HE:183:GLU:HB2	1.88	0.55
3:HF:337:ASN:HB2	3:HF:340:TYR:HD2	1.71	0.55
3:HH:2:ARG:HH21	4:HI:97:GLU:HG2	1.72	0.55
3:HH:357:PRO:HB3	3:HH:362:LYS:HA	1.88	0.55
4:HI:396:ASP:OD1	4:HI:397:LEU:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HK:115:VAL:HA	4:HK:118:VAL:HG22	1.88	0.55
4:HK:163:LYS:HE3	4:HK:164:LYS:HZ1	1.71	0.55
4:HK:398:MET:O	4:HK:402:ARG:N	2.39	0.55
4:IC:49:PHE:O	4:IC:53:PHE:N	2.39	0.55
3:ID:379:LYS:O	3:ID:382:SER:OG	2.15	0.55
4:IE:2:ARG:HA	4:IE:133:GLN:HE22	1.71	0.55
4:IE:287:SER:N	4:IE:290:GLU:OE2	2.39	0.55
3:IH:323:MET:HE2	4:II:224:TYR:CD1	2.41	0.55
3:IJ:322:SER:OG	3:IJ:323:MET:SD	2.63	0.55
4:IK:108:TYR:O	4:IK:112:LYS:NZ	2.26	0.55
3:IL:375:GLN:HA	3:IL:378:PHE:CZ	2.41	0.55
4:IM:256:GLN:O	4:IM:260:VAL:HG12	2.06	0.55
18:J:66:PHE:O	18:J:69:ARG:HB3	2.07	0.55
19:J1:43:SER:O	19:J1:46:HIS:ND1	2.40	0.55
3:JD:328:GLU:OE2	3:JD:329:GLN:NE2	2.37	0.55
4:JE:264:ARG:O	4:JE:266:HIS:ND1	2.39	0.55
4:JG:320:ARG:HH21	4:JG:358:GLN:HG3	1.71	0.55
4:JI:262:TYR:HE1	3:JJ:393:ALA:HA	1.72	0.55
21:K3:31:LYS:HA	21:K3:34:LEU:HB2	1.88	0.55
21:K4:330:ASN:OD1	21:K4:468:ARG:NH1	2.40	0.55
4:KA:404:PHE:HB3	4:KA:407:TRP:HD1	1.70	0.55
3:KB:394:PHE:HA	3:KB:397:TRP:HZ3	1.70	0.55
4:KC:113:GLU:OE1	4:KC:113:GLU:N	2.40	0.55
3:KD:141:GLY:HA3	39:KD:501:GTP:H5"	1.88	0.55
3:KF:295:ASP:HB2	3:KF:298:ASN:HB2	1.88	0.55
4:KG:423:GLU:HA	4:KG:426:ALA:HB3	1.89	0.55
3:KJ:13:GLY:HA2	3:KJ:16:ILE:HB	1.88	0.55
3:KL:130:LEU:HB2	3:KL:162:ARG:HH11	1.71	0.55
22:L2:119:LYS:H	4:LG:412:GLY:HA2	1.72	0.55
3:LF:7:LEU:HD22	3:LF:135:LEU:HG	1.88	0.55
3:LF:77:ARG:O	3:LF:77:ARG:NH1	2.34	0.55
3:LH:190:HIS:CE1	3:LH:411:ALA:HA	2.41	0.55
3:LJ:257:MET:HE1	3:LJ:314:ALA:HB2	1.88	0.55
23:M:137:SER:OG	23:M:146:ILE:N	2.35	0.55
3:MB:234:SER:O	3:MB:238:THR:HG23	2.07	0.55
4:MC:216:ASN:HB2	4:MC:276:ILE:HD12	1.88	0.55
4:MC:316:CYS:N	4:MC:378:LEU:O	2.40	0.55
3:MF:247:ASN:HB3	3:MF:252:LYS:HG2	1.89	0.55
25:N:73:ARG:NH1	25:N:75:PHE:HB2	2.18	0.55
26:N1:66:ILE:HG12	26:N1:75:LEU:HD13	1.88	0.55
3:NB:91:VAL:HG11	3:NB:116:VAL:HG12	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NL:295:ASP:HB2	3:NL:298:ASN:HB2	1.87	0.55
4:OA:273:ALA:N	4:OA:377:MET:HE1	2.22	0.55
3:OB:257:MET:HE1	3:OB:314:ALA:HB2	1.88	0.55
3:OJ:347:ASN:HB3	4:OK:178:SER:HB3	1.89	0.55
29:P1:48:LEU:HB3	29:P1:50:GLN:HE22	1.71	0.55
29:P1:301:GLU:N	29:P1:301:GLU:OE2	2.37	0.55
29:P2:94:ILE:HG12	29:P2:106:ARG:HG3	1.88	0.55
29:P2:426:THR:HG21	29:P2:431:ARG:HB2	1.87	0.55
29:P2:528:TYR:HD2	29:P2:538:ARG:HB3	1.72	0.55
3:PF:166:THR:OG1	3:PF:198:GLU:O	2.25	0.55
3:PH:47:ILE:HG12	3:PH:59:TYR:CD2	2.42	0.55
4:PM:256:GLN:O	4:PM:260:VAL:HG12	2.06	0.55
30:Q3:1437:TYR:CE1	30:Q3:1496:TYR:HB2	2.41	0.55
30:Q3:1497:TYR:OH	30:Q3:1513:ALA:HB2	2.06	0.55
3:QB:101:TRP:HB2	3:QB:184:ASN:HD22	1.71	0.55
3:QB:130:LEU:HB2	3:QB:162:ARG:HH11	1.71	0.55
4:QE:84:ARG:NH2	37:YF:124:HIS:HA	2.16	0.55
3:QH:273:LEU:H	3:QH:292:GLN:HE22	1.53	0.55
4:QM:34:GLY:O	4:QM:61:HIS:ND1	2.40	0.55
4:QM:207:GLU:HB2	4:QM:304:LYS:NZ	2.22	0.55
4:RE:1:MET:SD	4:RE:2:ARG:N	2.79	0.55
4:RE:50:ASN:O	4:RE:64:ARG:NH1	2.39	0.55
3:RF:309:ARG:NH1	3:RF:343:GLU:OE1	2.25	0.55
4:RG:2:ARG:HA	4:RG:133:GLN:HE22	1.71	0.55
3:RH:132:GLY:HA3	3:RH:163:ILE:H	1.71	0.55
3:RJ:12:CYS:HA	39:RJ:501:GTP:N2	2.20	0.55
3:RJ:419:VAL:HG12	3:RJ:423:GLN:HE22	1.72	0.55
4:RK:392:ASP:OD1	4:RK:393:HIS:N	2.39	0.55
4:SE:50:ASN:O	4:SE:64:ARG:NH1	2.38	0.55
3:SH:375:GLN:HA	3:SH:378:PHE:CZ	2.41	0.55
3:SL:290:THR:HG21	3:SL:329:GLN:HB3	1.88	0.55
3:SL:380:ARG:O	3:SL:384:GLN:HG2	2.07	0.55
3:SL:421:GLU:HA	3:SL:424:GLN:HE22	1.72	0.55
4:SM:5:ILE:HD13	4:SM:64:ARG:HB3	1.89	0.55
4:TE:1:MET:HE1	4:TE:51:THR:HB	1.88	0.55
3:TF:214:THR:HG21	3:TF:273:LEU:HB3	1.89	0.55
4:TM:207:GLU:HB2	4:TM:304:LYS:NZ	2.21	0.55
3:UB:131:GLN:HB3	3:UB:163:ILE:HD12	1.89	0.55
3:UB:305:PRO:HB2	3:UB:310:TYR:HE1	1.71	0.55
4:UC:260:VAL:HG23	4:UC:265:ILE:O	2.07	0.55
3:UD:252:LYS:O	3:UD:256:ASN:ND2	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UI:5:ILE:HD13	4:UI:64:ARG:HB3	1.87	0.55
4:UI:392:ASP:OD1	4:UI:393:HIS:N	2.39	0.55
3:UJ:415:MET:O	3:UJ:419:VAL:HG23	2.07	0.55
4:UK:34:GLY:HA2	4:UK:86:LEU:HD11	1.88	0.55
4:VA:36:MET:HE3	4:VA:37:PRO:HD2	1.88	0.55
4:VA:205:ASP:OD2	4:VA:304:LYS:NZ	2.34	0.55
4:VA:273:ALA:N	4:VA:377:MET:HE1	2.21	0.55
4:VA:285:GLN:HE22	4:VA:287:SER:HB3	1.71	0.55
4:VE:224:TYR:CE1	39:VE:501:GTP:C5	2.93	0.55
3:VF:32:PRO:O	3:VF:83:GLN:NE2	2.30	0.55
3:VF:380:ARG:O	3:VF:384:GLN:HG2	2.07	0.55
4:VG:5:ILE:HD13	4:VG:64:ARG:HB3	1.88	0.55
4:VG:7:ILE:N	4:VG:136:LEU:O	2.29	0.55
3:VH:33:THR:HG21	33:W:176:LEU:HD13	1.88	0.55
3:VH:214:THR:HG21	3:VH:273:LEU:HB3	1.88	0.55
4:VI:34:GLY:HA2	4:VI:86:LEU:HD11	1.88	0.55
3:VL:235:GLY:O	3:VL:238:THR:OG1	2.24	0.55
4:WA:396:ASP:OD1	4:WA:397:LEU:N	2.39	0.55
3:WD:256:ASN:HB3	3:WD:350:LYS:HG3	1.87	0.55
3:WD:316:VAL:HG22	3:WD:352:ALA:HB3	1.87	0.55
3:WD:415:MET:O	3:WD:419:VAL:HG23	2.07	0.55
3:WF:11:GLN:HG3	39:WF:501:GTP:PA	2.46	0.55
4:WK:171:ILE:HD12	4:WK:204:VAL:HG13	1.88	0.55
4:WK:399:TYR:OH	4:WK:415:GLU:OE2	2.21	0.55
3:WL:28:HIS:O	3:WL:43:GLN:NE2	2.39	0.55
34:XG:14:LEU:HB3	34:XG:165:VAL:HG12	1.88	0.55
35:XJ:119:LEU:HD11	35:XJ:159:LEU:HD23	1.89	0.55
37:YL:4:VAL:HG23	37:YL:79:LEU:HG	1.88	0.55
37:YR:7:SER:O	37:YR:10:SER:OG	2.24	0.55
37:YV:12:GLU:HA	37:YV:15:TYR:HD2	1.71	0.55
2:A1:102:LEU:HD22	2:A1:150:LEU:HD23	1.87	0.55
2:A4:222:ASN:O	2:A4:226:GLU:HG2	2.06	0.55
4:AC:103:TYR:HB2	4:AC:186:ASN:HB2	1.89	0.55
3:AD:83:GLN:O	3:AD:86:ARG:NH2	2.39	0.55
3:AF:384:GLN:O	3:AF:388:MET:HG2	2.07	0.55
4:AG:256:GLN:O	4:AG:260:VAL:HG12	2.06	0.55
4:AK:208:ALA:H	4:AK:304:LYS:NZ	2.04	0.55
4:AK:224:TYR:HE2	39:AK:501:GTP:O6	1.90	0.55
5:B1:395:ARG:HB2	5:B1:404:PHE:CE1	2.41	0.55
5:B6:149:LYS:O	5:B6:152:GLN:NE2	2.39	0.55
5:B7:149:LYS:O	5:B7:152:GLN:NE2	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BB:317:PHE:O	3:BB:354:CYS:N	2.33	0.55
4:BC:91:GLN:HG3	4:BC:121:ARG:HH21	1.72	0.55
4:BI:12:ALA:HB2	39:BI:501:GTP:H5"	1.88	0.55
4:BM:12:ALA:HB2	39:BM:501:GTP:H5"	1.88	0.55
4:BM:223:THR:O	4:BM:226:ASN:HB3	2.06	0.55
6:C:195:LEU:HD23	6:C:211:ILE:HD13	1.89	0.55
7:C7:447:SER:HA	10:E1:145:ARG:HH12	1.70	0.55
3:CD:350:LYS:HE3	4:CE:181:VAL:H	1.70	0.55
3:CF:372:THR:HG21	3:CF:426:GLN:HG3	1.87	0.55
3:CH:39:ASP:OD1	3:CH:43:GLN:NE2	2.40	0.55
4:CK:331:ALA:O	4:CK:334:THR:OG1	2.24	0.55
4:CM:196:GLU:OE1	4:CM:196:GLU:N	2.35	0.55
8:D3:272:ARG:HH12	8:D3:273:LEU:HD23	1.71	0.55
4:DA:88:HIS:CE1	4:DA:121:ARG:HH22	2.24	0.55
3:DB:286:VAL:HG21	3:DB:325:GLU:HG3	1.87	0.55
3:DD:111:GLU:HG2	3:DD:112:LEU:HD12	1.88	0.55
3:DD:269:GLY:N	3:DD:367:PHE:O	2.40	0.55
4:DE:220:GLU:O	4:DE:221:ARG:NE	2.36	0.55
4:DI:206:ASN:HA	4:DI:209:ILE:HD12	1.88	0.55
4:DK:9:VAL:HG11	4:DK:150:ALA:HB2	1.88	0.55
4:DK:207:GLU:HB2	4:DK:304:LYS:HZ1	1.72	0.55
10:E1:132:PRO:O	10:E1:133:ARG:HG2	2.07	0.55
10:E2:52:THR:OG1	10:E2:53:PRO:HD3	2.07	0.55
3:EB:132:GLY:HA3	3:EB:163:ILE:H	1.71	0.55
4:EI:49:PHE:O	4:EI:53:PHE:N	2.39	0.55
3:EL:273:LEU:H	3:EL:292:GLN:HE22	1.54	0.55
11:F2:434:LEU:O	11:F2:437:THR:HG22	2.06	0.55
11:F5:312:ALA:O	11:F5:316:ARG:HG2	2.07	0.55
11:F8:172:THR:O	11:F8:175:ARG:HD3	2.06	0.55
11:F8:390:LYS:NZ	11:F8:394:THR:OG1	2.39	0.55
4:FA:120:ASP:OD1	4:FA:123:ARG:NH1	2.40	0.55
4:FG:53:PHE:O	4:FG:64:ARG:NH1	2.39	0.55
4:FI:214:ARG:NH1	4:FI:215:ARG:HG3	2.21	0.55
4:FK:220:GLU:O	4:FK:221:ARG:NE	2.38	0.55
11:Fa:220:ASP:O	11:Fa:223:LYS:HG3	2.06	0.55
11:Ff:116:LEU:HA	11:Fg:433:ARG:HH22	1.72	0.55
13:G2:87:PRO:O	13:G2:91:ALA:N	2.40	0.55
13:G2:297:MET:HB3	13:G2:324:TYR:CD2	2.41	0.55
13:G3:26:HIS:O	13:G3:48:GLY:N	2.38	0.55
14:G4:91:ASP:OD2	14:G4:93:ARG:NE	2.40	0.55
14:G5:566:PHE:CD1	14:G5:585:ILE:HD12	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G6:202:GLU:HA	14:G6:205:GLU:HB2	1.89	0.55
4:GC:171:ILE:HD12	4:GC:204:VAL:HG23	1.88	0.55
4:GG:24:TYR:O	4:GG:28:HIS:ND1	2.26	0.55
3:GH:250:LEU:HD13	3:GH:253:LEU:HD12	1.89	0.55
3:GH:292:GLN:O	3:GH:298:ASN:ND2	2.35	0.55
4:GI:102:ASN:ND2	4:GI:411:GLU:OE2	2.38	0.55
3:GL:84:ILE:O	3:GL:86:ARG:NH1	2.38	0.55
3:GL:170:VAL:N	3:GL:202:ILE:O	2.37	0.55
3:GL:173:PRO:O	3:GL:380:ARG:NH2	2.39	0.55
4:HK:105:ARG:O	4:HK:109:THR:OG1	2.24	0.55
3:IB:322:SER:OG	3:IB:324:LYS:NZ	2.39	0.55
4:IC:415:GLU:OE1	4:IC:419:SER:OG	2.25	0.55
4:IE:201:ALA:H	4:IE:266:HIS:HD2	1.55	0.55
4:II:21:TRP:HE1	4:II:65:ALA:HB3	1.70	0.55
3:JB:170:VAL:N	3:JB:202:ILE:O	2.31	0.55
4:JE:269:LEU:N	4:JE:379:SER:O	2.33	0.55
4:JG:264:ARG:O	4:JG:266:HIS:ND1	2.37	0.55
4:JI:88:HIS:HB3	4:JI:91:GLN:HG3	1.88	0.55
3:JJ:309:ARG:N	3:JJ:372:THR:OG1	2.30	0.55
4:JK:115:VAL:HA	4:JK:118:VAL:HG22	1.87	0.55
4:JK:329:ASN:OD1	4:JK:330:ALA:N	2.40	0.55
21:K2:400:MET:CE	21:K3:245:VAL:H	2.19	0.55
21:K4:326:GLN:OE1	21:K4:330:ASN:ND2	2.40	0.55
21:K4:363:ARG:HE	21:K4:366:LYS:HD3	1.72	0.55
4:KA:339:ARG:O	4:KA:342:GLN:NE2	2.39	0.55
3:KD:350:LYS:HE3	4:KE:180:ALA:HA	1.89	0.55
4:KG:154:MET:HE1	4:KG:197:HIS:HB2	1.88	0.55
4:KG:316:CYS:HB3	4:KG:378:LEU:HB3	1.88	0.55
3:KH:378:PHE:CD1	3:KH:419:VAL:HG22	2.42	0.55
3:KJ:323:MET:N	3:KJ:323:MET:SD	2.79	0.55
20:L:75:PRO:HD3	20:L:268:MET:HB2	1.88	0.55
22:L1:157:TYR:HA	22:L1:160:LYS:HG2	1.89	0.55
22:L3:145:TYR:OH	4:MK:393:HIS:NE2	2.15	0.55
22:L4:80:ARG:HG2	22:L4:81:CYS:H	1.70	0.55
4:LA:154:MET:HE3	4:LA:194:THR:HG22	1.88	0.55
4:LE:371:VAL:HG11	4:LE:374:ALA:HB2	1.87	0.55
4:LE:372:GLN:HB2	27:Q:35:ARG:HE	1.71	0.55
3:LF:273:LEU:H	3:LF:292:GLN:HE22	1.53	0.55
3:LH:33:THR:O	3:LH:58:LYS:NZ	2.33	0.55
4:LI:12:ALA:HB1	39:LI:501:GTP:C2	2.42	0.55
4:LK:172:TYR:HB2	4:LK:203:MET:HB2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LL:407:GLU:OE1	3:LL:407:GLU:N	2.39	0.55
4:MC:271:THR:O	4:MC:377:MET:N	2.21	0.55
3:MD:309:ARG:H	3:MD:372:THR:HG1	1.50	0.55
4:ME:236:SER:O	4:ME:243:ARG:NH2	2.30	0.55
3:MF:347:ASN:HB3	4:MG:178:SER:HB3	1.89	0.55
3:MF:375:GLN:HA	3:MF:378:PHE:CZ	2.41	0.55
3:ML:15:GLN:NE2	39:ML:501:GTP:C2	2.70	0.55
4:MM:220:GLU:O	4:MM:221:ARG:NE	2.37	0.55
4:MM:224:TYR:O	4:MM:228:ASN:N	2.20	0.55
4:NC:220:GLU:HG2	4:NC:221:ARG:HG2	1.89	0.55
4:NE:329:ASN:OD1	4:NE:330:ALA:N	2.39	0.55
3:NF:77:ARG:O	3:NF:77:ARG:NH1	2.36	0.55
4:NI:187:SER:O	4:NI:190:THR:OG1	2.23	0.55
4:NK:135:PHE:HD2	4:NK:166:LYS:HG3	1.71	0.55
28:O2:105:ALA:O	28:O2:109:LEU:HD13	2.07	0.55
3:OB:148:GLY:O	3:OB:152:ILE:HG12	2.06	0.55
4:OC:371:VAL:HG11	4:OC:374:ALA:HB2	1.87	0.55
4:OE:396:ASP:OD1	4:OE:397:LEU:N	2.40	0.55
3:OF:214:THR:HG21	3:OF:273:LEU:HB3	1.89	0.55
4:OG:12:ALA:HB1	39:OG:501:GTP:C2	2.42	0.55
3:OJ:426:GLN:NE2	3:OJ:427:ASP:OD2	2.38	0.55
27:P:306:SER:HA	27:P:309:TRP:HD1	1.71	0.55
3:PB:306:ARG:NE	3:PB:306:ARG:O	2.39	0.55
3:PF:151:LEU:HD22	3:PF:154:LYS:HZ1	1.71	0.55
4:PI:319:TYR:N	4:PI:354:GLY:O	2.39	0.55
3:PJ:141:GLY:HA3	39:PJ:501:GTP:H5”	1.89	0.55
3:PJ:415:MET:O	3:PJ:419:VAL:HG23	2.05	0.55
4:PK:101:ASN:HA	4:PK:144:GLY:HA2	1.87	0.55
4:PM:172:TYR:N	4:PM:204:VAL:O	2.33	0.55
30:Q1:1416:ARG:HB2	30:Q1:1515:LEU:HD11	1.88	0.55
4:QC:413:MET:HB3	4:QC:417:GLU:OE2	2.06	0.55
4:QE:84:ARG:HA	4:QE:87:PHE:CD2	2.42	0.55
3:QF:217:LEU:HD11	3:QF:220:PRO:HB3	1.88	0.55
3:QL:255:VAL:HA	4:QM:407:TRP:CE2	2.42	0.55
3:QL:375:GLN:HA	3:QL:378:PHE:CZ	2.41	0.55
3:RF:139:LEU:HD21	3:RF:170:VAL:HG22	1.88	0.55
3:RH:152:ILE:HA	3:RH:155:ILE:HG12	1.88	0.55
3:RJ:380:ARG:O	3:RJ:384:GLN:HG2	2.07	0.55
4:RK:286:LEU:HD11	4:RK:373:ARG:H	1.71	0.55
3:SB:28:HIS:O	3:SB:43:GLN:NE2	2.39	0.55
3:SD:11:GLN:HE21	39:SD:501:GTP:H3’	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:SD:106:TYR:CE1	3:SD:403:MET:HE1	2.41	0.55
3:SF:7:LEU:HB2	3:SF:135:LEU:HG	1.89	0.55
3:SF:15:GLN:HG2	3:SF:222:TYR:HE2	1.72	0.55
4:SK:67:PHE:HB2	4:SK:92:LEU:HD13	1.87	0.55
4:SK:207:GLU:HB2	4:SK:304:LYS:HZ1	1.70	0.55
4:SM:2:ARG:HA	4:SM:133:GLN:HE22	1.72	0.55
4:TE:46:ASP:OD1	4:TE:50:ASN:ND2	2.37	0.55
3:TF:252:LYS:O	3:TF:256:ASN:ND2	2.40	0.55
3:TH:13:GLY:HA2	3:TH:16:ILE:HB	1.89	0.55
3:TJ:52:ASN:OD1	3:TJ:62:ARG:NH1	2.40	0.55
3:TL:174:LYS:HG3	3:TL:175:VAL:HG12	1.88	0.55
3:TL:317:PHE:O	3:TL:354:CYS:N	2.24	0.55
3:TL:324:LYS:HB3	4:TM:210:TYR:CE2	2.40	0.55
3:TN:385:PHE:HZ	3:TN:408:PHE:HB3	1.71	0.55
33:U:243:GLN:HA	33:U:246:ARG:HD2	1.88	0.55
3:UB:379:LYS:O	3:UB:382:SER:OG	2.18	0.55
4:UC:265:ILE:HD12	4:UC:432:TYR:CE1	2.41	0.55
3:UF:390:ARG:HH12	3:UF:391:ARG:NH2	2.04	0.55
4:UG:12:ALA:HB1	39:UG:501:GTP:C2	2.41	0.55
4:UI:419:SER:HA	4:UI:422:ARG:HE	1.70	0.55
4:UK:390:ARG:HA	4:UK:393:HIS:CD2	2.42	0.55
4:VA:68:VAL:HG12	4:VA:93:ILE:HB	1.88	0.55
3:VB:141:GLY:HA3	39:VB:501:GTP:H5”	1.88	0.55
3:VD:305:PRO:HB2	3:VD:310:TYR:HE1	1.71	0.55
3:VH:172:SER:HB3	3:VH:175:VAL:O	2.07	0.55
4:VI:401:LYS:C	4:VI:402:ARG:HD3	2.31	0.55
3:VJ:46:ARG:HH12	4:VK:73:THR:HG23	1.71	0.55
3:VJ:120:VAL:O	3:VJ:124:ALA:N	2.36	0.55
4:VK:201:ALA:HB1	4:VK:203:MET:HE3	1.87	0.55
33:W:373:ARG:HD3	33:W:374:ALA:O	2.07	0.55
4:WA:207:GLU:HB2	4:WA:304:LYS:NZ	2.21	0.55
3:WD:19:LYS:NZ	3:WD:223:GLY:O	2.39	0.55
3:WD:94:GLN:HA	35:XI:74:LYS:H	1.71	0.55
3:WD:250:LEU:HD13	3:WD:253:LEU:HD12	1.88	0.55
3:WD:268:PRO:HD2	3:WD:301:ALA:HB2	1.87	0.55
4:WE:269:LEU:N	4:WE:379:SER:O	2.34	0.55
4:WI:216:ASN:HB2	4:WI:276:ILE:HD12	1.88	0.55
4:WI:287:SER:OG	4:WI:290:GLU:OE1	2.24	0.55
3:WL:385:PHE:HA	3:WL:388:MET:HE2	1.89	0.55
34:XD:81:LYS:HB2	34:XD:129:TRP:CE2	2.41	0.55
37:YE:11:ILE:O	37:YE:14:LYS:NZ	2.35	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:YK:8:LEU:HD11	37:YK:145:LEU:HD22	1.87	0.55
37:YM:30:GLU:O	37:YM:33:ARG:N	2.40	0.55
37:YT:20:GLN:HE22	37:YT:21:GLN:HG3	1.72	0.55
36:Z:270:MET:HA	36:Z:273:LYS:HD2	1.88	0.55
1:A:90:GLU:HG2	9:E:778:PHE:CE1	2.41	0.55
2:A1:114:LYS:HG3	2:A1:118:TYR:CE2	2.41	0.55
2:A2:38:VAL:HG13	2:A2:42:GLN:HE22	1.72	0.55
2:A2:162:ARG:HH12	13:G1:199:ILE:CA	2.20	0.55
4:AC:256:GLN:O	4:AC:260:VAL:HG12	2.07	0.55
4:AE:11:GLN:HB2	4:AE:74:VAL:HG21	1.87	0.55
4:AE:236:SER:O	4:AE:243:ARG:NH2	2.36	0.55
4:AE:326:LYS:HE3	3:AF:219:THR:HA	1.88	0.55
3:AF:12:CYS:HB3	39:AF:501:GTP:H5'	1.88	0.55
3:AJ:141:GLY:HA3	39:AJ:501:GTP:H5"	1.88	0.55
3:AL:379:LYS:O	3:AL:382:SER:OG	2.20	0.55
5:B4:392:ASP:HA	5:B4:395:ARG:HE	1.72	0.55
4:BC:229:ARG:NH2	4:BC:367:ASP:H	2.05	0.55
3:BF:197:ASP:OD1	3:BF:198:GLU:N	2.40	0.55
3:BH:16:ILE:HD13	3:BH:226:ASN:HD22	1.72	0.55
4:BI:272:TYR:CZ	4:BI:274:PRO:HG2	2.41	0.55
3:BL:41:ASP:OD1	3:BL:42:LEU:N	2.40	0.55
7:C3:415:MET:HA	7:C3:418:LEU:HD12	1.89	0.55
7:C8:118:GLU:HG3	10:E3:172:LEU:HD21	1.89	0.55
7:C8:363:THR:O	7:C8:366:THR:OG1	2.22	0.55
3:CB:12:CYS:HA	39:CB:501:GTP:N2	2.21	0.55
3:CB:262:ARG:NH2	3:CB:425:TYR:OH	2.39	0.55
4:CE:208:ALA:H	4:CE:304:LYS:HZ1	1.52	0.55
3:CF:150:LEU:HB3	3:CF:154:LYS:HZ1	1.70	0.55
4:CG:36:MET:HE3	4:CG:36:MET:HA	1.89	0.55
4:CG:108:TYR:O	4:CG:112:LYS:NZ	2.29	0.55
3:CH:152:ILE:O	3:CH:156:ARG:HG2	2.07	0.55
3:CH:330:MET:HA	3:CH:333:VAL:HG12	1.88	0.55
4:CI:295:CYS:HB2	4:CI:377:MET:HG2	1.89	0.55
4:CK:192:HIS:HA	4:CK:195:LEU:HD23	1.89	0.55
7:Cd:319:ALA:HA	7:Cd:322:ARG:HE	1.72	0.55
8:D2:139:GLN:NE2	8:D2:143:ASP:OD1	2.39	0.55
8:D3:26:GLU:HA	8:D3:29:VAL:HG12	1.87	0.55
8:D3:63:ARG:NH2	8:D4:411:SER:O	2.40	0.55
8:D3:336:ILE:HG22	8:D3:340:LYS:NZ	2.21	0.55
8:D4:239:GLN:HA	8:D5:351:ARG:NH1	2.21	0.55
8:D7:337:ALA:O	8:D7:340:LYS:HG2	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DA:75:VAL:HG22	4:DA:79:ARG:HH21	1.70	0.55
3:DD:130:LEU:HB2	3:DD:162:ARG:HH11	1.70	0.55
3:DD:324:LYS:HD2	4:DE:221:ARG:HA	1.88	0.55
4:DK:295:CYS:HB2	4:DK:377:MET:HE3	1.88	0.55
3:EF:122:LYS:HD2	3:FF:291:GLN:NE2	2.22	0.55
4:EG:25:CYS:HB2	4:EG:30:ILE:HB	1.88	0.55
3:EH:311:LEU:HG	3:EH:312:THR:HG23	1.87	0.55
4:EI:224:TYR:HB3	4:EI:228:ASN:ND2	2.22	0.55
11:F5:308:GLN:NE2	11:F5:309:ASN:OD1	2.40	0.55
11:F5:319:GLU:HA	11:F5:322:GLU:OE1	2.06	0.55
11:F7:378:LEU:HD23	11:F7:434:LEU:HD23	1.88	0.55
11:F9:354:LYS:HA	11:F9:357:LEU:HD12	1.88	0.55
4:FC:101:ASN:HA	4:FC:144:GLY:HA2	1.89	0.55
4:FC:264:ARG:O	4:FC:266:HIS:ND1	2.35	0.55
4:FC:273:ALA:N	4:FC:377:MET:HE1	2.21	0.55
4:FE:88:HIS:CE1	4:FE:121:ARG:HH22	2.25	0.55
3:FF:47:ILE:HG13	3:FF:51:TYR:HB2	1.87	0.55
4:FG:3:GLU:N	4:FG:133:GLN:OE1	2.39	0.55
4:FG:113:GLU:OE1	4:FG:113:GLU:N	2.39	0.55
3:FJ:247:ASN:ND2	39:FK:501:GTP:O3G	2.39	0.55
11:Fa:410:ASP:OD2	11:Fb:145:ARG:NH1	2.40	0.55
11:Fl:430:LEU:HD13	11:Fl:433:ARG:HH11	1.72	0.55
13:G1:37:TYR:HB2	3:MD:212:PHE:HB3	1.87	0.55
13:G2:474:LYS:HE3	13:G2:476:PHE:HB2	1.86	0.55
13:G3:134:ILE:HG13	13:G3:147:LYS:HD2	1.89	0.55
14:G6:259:THR:OG1	14:G6:281:ARG:O	2.16	0.55
14:G6:467:GLU:HB2	14:G6:480:PHE:HE2	1.71	0.55
3:GD:13:GLY:HA2	3:GD:16:ILE:HB	1.88	0.55
4:GI:264:ARG:O	4:GI:266:HIS:ND1	2.39	0.55
3:GJ:254:ALA:HA	3:GJ:257:MET:HG2	1.89	0.55
4:GK:271:THR:HA	4:GK:302:MET:HE1	1.86	0.55
4:HE:256:GLN:HE22	3:HF:397:TRP:HE1	1.54	0.55
4:HG:405:VAL:O	4:HG:409:VAL:N	2.37	0.55
3:HH:269:GLY:N	3:HH:367:PHE:O	2.40	0.55
4:HI:33:ASP:OD1	4:HI:34:GLY:N	2.39	0.55
4:HK:325:PRO:HA	4:HK:328:VAL:HB	1.87	0.55
3:HL:28:HIS:O	3:HL:43:GLN:NE2	2.40	0.55
3:HL:316:VAL:HG22	3:HL:352:ALA:HB3	1.88	0.55
17:I2:51:ASP:O	17:I2:55:THR:HG23	2.07	0.55
3:IB:77:ARG:HD3	3:IB:90:PHE:HE2	1.72	0.55
3:IH:2:ARG:HB3	3:IH:131:GLN:NE2	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IH:28:HIS:ND1	3:IH:43:GLN:HB2	2.22	0.55
3:IH:372:THR:HB	3:IH:375:GLN:HE22	1.70	0.55
4:II:287:SER:OG	4:II:290:GLU:OE1	2.20	0.55
4:IK:287:SER:H	4:IK:290:GLU:CD	2.14	0.55
4:IM:264:ARG:O	4:IM:266:HIS:ND1	2.40	0.55
19:J2:48:THR:N	19:J2:100:ARG:O	2.34	0.55
4:JC:188:ILE:HG22	4:JC:421:ALA:HB1	1.88	0.55
3:JD:12:CYS:HA	39:JD:501:GTP:N2	2.21	0.55
3:JD:328:GLU:OE1	3:JD:332:ASN:ND2	2.40	0.55
4:JG:271:THR:HB	4:JG:377:MET:HE3	1.88	0.55
3:JJ:12:CYS:HA	39:JJ:501:GTP:N2	2.21	0.55
4:JK:34:GLY:HA2	4:JK:86:LEU:HD21	1.87	0.55
3:JL:415:MET:O	3:JL:419:VAL:HG23	2.06	0.55
21:K1:395:ARG:HG3	21:K1:397:LEU:HG	1.87	0.55
3:KB:6:HIS:HB3	3:KB:21:TRP:HZ2	1.72	0.55
3:KB:268:PRO:HD2	3:KB:301:ALA:HB2	1.88	0.55
3:KF:375:GLN:HA	3:KF:378:PHE:CZ	2.42	0.55
4:KG:1:MET:N	4:KG:130:THR:OG1	2.38	0.55
4:KG:273:ALA:HB2	4:KG:295:CYS:HB3	1.88	0.55
4:LA:81:GLY:O	4:LA:84:ARG:NH1	2.40	0.55
3:LD:375:GLN:HA	3:LD:378:PHE:CZ	2.41	0.55
4:LE:9:VAL:HG11	4:LE:150:ALA:HB2	1.87	0.55
4:LE:51:THR:HG23	4:LE:52:PHE:CD2	2.41	0.55
3:LF:398:TYR:HB3	3:LF:403:MET:HB2	1.88	0.55
3:LH:12:CYS:HA	39:LH:501:GTP:N2	2.22	0.55
4:MC:205:ASP:OD2	4:MC:304:LYS:NZ	2.32	0.55
3:MD:172:SER:HB3	3:MD:175:VAL:O	2.06	0.55
3:MF:81:PHE:O	3:MF:84:ILE:HG22	2.06	0.55
3:MH:268:PRO:HD2	3:MH:301:ALA:HB2	1.89	0.55
3:ML:46:ARG:HH12	4:MM:73:THR:HG23	1.71	0.55
3:ML:347:ASN:OD1	4:MM:394:LYS:NZ	2.36	0.55
26:N3:74:ARG:NE	26:N3:74:ARG:O	2.39	0.55
4:NE:68:VAL:HG12	4:NE:93:ILE:HB	1.89	0.55
4:NG:208:ALA:H	4:NG:304:LYS:NZ	2.05	0.55
4:NI:208:ALA:H	4:NI:304:LYS:NZ	2.05	0.55
4:NI:208:ALA:N	4:NI:304:LYS:HZ1	2.03	0.55
28:O1:91:ASN:HA	28:O1:94:LYS:HZ2	1.70	0.55
28:O2:30:GLU:O	28:O2:31:LYS:HD3	2.06	0.55
29:P1:167:SER:OG	29:P1:217:ASP:OD2	2.23	0.55
4:PA:252:LEU:HD13	4:PA:255:PHE:HD2	1.71	0.55
3:PB:194:GLU:OE1	3:PB:195:ASN:ND2	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PF:218:THR:OG1	3:PF:219:THR:N	2.40	0.55
4:PG:33:ASP:OD1	4:PG:34:GLY:N	2.39	0.55
3:PH:372:THR:HB	3:PH:375:GLN:HE22	1.71	0.55
4:PI:206:ASN:HA	4:PI:209:ILE:HD12	1.88	0.55
3:PL:174:LYS:HG3	3:PL:175:VAL:HG12	1.87	0.55
3:PL:218:THR:OG1	3:PL:219:THR:N	2.39	0.55
3:QB:246:LEU:HB2	3:QB:352:ALA:HB1	1.88	0.55
4:QC:6:SER:HA	4:QC:136:LEU:HB2	1.89	0.55
4:QE:411:GLU:OE2	4:QE:413:MET:HE1	2.06	0.55
3:QF:269:GLY:N	3:QF:367:PHE:O	2.39	0.55
4:QG:1:MET:SD	4:QG:2:ARG:N	2.80	0.55
4:QG:33:ASP:OD1	4:QG:34:GLY:N	2.39	0.55
3:QH:322:SER:OG	3:QH:323:MET:SD	2.65	0.55
4:QI:256:GLN:O	4:QI:260:VAL:HG12	2.07	0.55
3:QJ:12:CYS:HA	39:QJ:501:GTP:HN22	1.71	0.55
4:QK:302:MET:SD	4:QK:302:MET:N	2.63	0.55
4:QK:317:MET:SD	4:QK:317:MET:N	2.77	0.55
3:QL:322:SER:N	3:QL:325:GLU:OE2	2.40	0.55
4:RC:33:ASP:OD1	4:RC:34:GLY:N	2.37	0.55
3:RD:170:VAL:N	3:RD:202:ILE:O	2.35	0.55
3:RH:12:CYS:HA	39:RH:501:GTP:N2	2.21	0.55
3:RJ:38:GLY:O	37:YP:20:GLN:NE2	2.33	0.55
4:RK:252:LEU:HD13	4:RK:255:PHE:HD2	1.71	0.55
3:SB:285:THR:O	3:SB:288:GLU:HG3	2.07	0.55
4:SC:49:PHE:O	4:SC:53:PHE:N	2.39	0.55
4:SC:316:CYS:HB3	4:SC:378:LEU:HB3	1.88	0.55
4:SI:208:ALA:N	4:SI:304:LYS:HZ1	2.04	0.55
4:TC:12:ALA:HB1	39:TC:501:GTP:N2	2.22	0.55
3:TD:135:LEU:HD21	3:TD:151:LEU:HD11	1.88	0.55
4:TG:115:VAL:HA	4:TG:118:VAL:HG12	1.88	0.55
4:TG:236:SER:O	4:TG:243:ARG:NH2	2.32	0.55
4:TG:287:SER:OG	4:TG:290:GLU:OE1	2.24	0.55
3:TH:306:ARG:HH22	3:TH:340:TYR:HE1	1.52	0.55
4:TI:88:HIS:CE1	4:UG:280:LYS:HZ1	2.24	0.55
4:TK:154:MET:HE1	4:TK:197:HIS:HB2	1.88	0.55
4:TK:187:SER:O	4:TK:190:THR:OG1	2.21	0.55
4:UA:287:SER:OG	4:UA:290:GLU:OE1	2.23	0.55
4:UA:396:ASP:OD1	4:UA:397:LEU:N	2.39	0.55
4:UA:401:LYS:C	4:UA:402:ARG:HD3	2.31	0.55
3:UB:12:CYS:SG	39:UB:501:GTP:H5'	2.47	0.55
3:UB:28:HIS:O	3:UB:43:GLN:NE2	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UD:55:THR:HB	33:W:286:MET:HE3	1.89	0.55
3:UD:300:MET:SD	3:UD:300:MET:N	2.80	0.55
4:VA:346:TRP:NE1	3:VB:393:ALA:HB2	2.22	0.55
3:VD:117:LEU:HD11	3:VD:154:LYS:HD2	1.87	0.55
3:VF:302:ALA:HB1	3:VF:377:LEU:HD21	1.88	0.55
3:VF:415:MET:O	3:VF:419:VAL:HG23	2.07	0.55
4:VG:415:GLU:OE1	4:VG:419:SER:OG	2.24	0.55
3:VJ:117:LEU:HD11	3:VJ:154:LYS:HD2	1.87	0.55
3:VJ:306:ARG:O	3:VJ:306:ARG:NE	2.38	0.55
3:VJ:415:MET:O	3:VJ:419:VAL:HG23	2.07	0.55
3:WB:166:THR:OG1	3:WB:198:GLU:O	2.22	0.55
4:WC:392:ASP:OD1	4:WC:393:HIS:N	2.40	0.55
3:WF:269:GLY:N	3:WF:367:PHE:O	2.40	0.55
3:WH:12:CYS:HB3	39:WH:501:GTP:H5'	1.89	0.55
33:X:406:GLU:HA	33:X:409:ASN:HD21	1.72	0.55
34:XC:93:VAL:HG12	34:XC:151:THR:HA	1.89	0.55
37:YI:113:LEU:HD23	37:YI:113:LEU:O	2.06	0.55
37:YK:25:PHE:CE1	37:YK:66:LEU:HD23	2.41	0.55
37:YP:12:GLU:HB3	37:YP:145:LEU:HD11	1.89	0.55
37:YU:99:LYS:HE2	37:YU:147:PHE:HB3	1.87	0.55
37:YU:106:GLN:HG2	37:YU:107:SER:H	1.70	0.55
37:YW:5:LYS:HG3	37:YW:9:ARG:NH1	2.20	0.55
36:Z:308:LYS:HA	36:Z:311:GLU:HB3	1.89	0.55
1:A:54:GLN:OE1	1:A:58:ARG:NH2	2.29	0.55
3:AD:4:ILE:HD11	3:AD:131:GLN:HB2	1.89	0.55
4:AG:287:SER:N	4:AG:290:GLU:OE2	2.39	0.55
3:AL:186:THR:HA	3:AL:189:VAL:HG12	1.88	0.55
5:B2:177:ARG:HA	5:B2:180:MET:HG2	1.89	0.55
5:B3:123:ARG:NH1	5:B3:383:THR:HG22	2.22	0.55
5:B7:77:THR:O	5:B7:80:LYS:HG2	2.07	0.55
3:BF:2:ARG:HB3	3:BF:131:GLN:NE2	2.22	0.55
4:BI:10:GLY:O	4:BI:14:VAL:HG13	2.06	0.55
4:BI:32:PRO:O	4:BI:85:GLN:NE2	2.39	0.55
3:BJ:375:GLN:HA	3:BJ:378:PHE:CZ	2.42	0.55
3:BL:101:TRP:HB2	3:BL:184:ASN:HD22	1.71	0.55
3:BL:407:GLU:OE1	3:BL:407:GLU:N	2.39	0.55
4:BM:12:ALA:HB1	39:BM:501:GTP:C2	2.42	0.55
4:BM:52:PHE:HZ	4:BM:239:THR:HB	1.72	0.55
6:C:43:TYR:OH	6:C:56:MET:HA	2.07	0.55
4:CG:273:ALA:HB2	4:CG:295:CYS:HB3	1.88	0.55
3:CJ:412:GLU:OE1	3:CJ:416:ASN:ND2	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CL:11:GLN:C	3:CL:15:GLN:HE21	2.13	0.55
3:CL:12:CYS:HA	3:CL:15:GLN:NE2	2.22	0.55
7:Cc:124:THR:O	7:Cc:128:ILE:HG12	2.07	0.55
8:D2:154:ASP:HB2	10:E1:116:MET:HE1	1.89	0.55
8:D4:383:GLU:OE2	8:D4:387:SER:OG	2.24	0.55
8:D8:174:VAL:HA	8:D8:177:LEU:HD12	1.89	0.55
8:D9:141:ALA:O	8:D9:145:THR:HG23	2.06	0.55
4:DC:70:LEU:HA	4:DC:95:GLY:HA3	1.89	0.55
4:DE:75:VAL:HG23	4:DE:92:LEU:HD12	1.89	0.55
4:DE:319:TYR:HB2	4:DE:355:ILE:HD13	1.88	0.55
3:DF:252:LYS:O	3:DF:256:ASN:ND2	2.39	0.55
4:DG:272:TYR:CZ	4:DG:274:PRO:HG2	2.42	0.55
3:DH:19:LYS:NZ	3:DH:223:GLY:O	2.40	0.55
3:DH:217:LEU:HD11	3:DH:220:PRO:HB3	1.88	0.55
3:DJ:284:LEU:HD12	3:DJ:363:MET:HG2	1.89	0.55
3:DJ:328:GLU:OE2	3:DJ:329:GLN:NE2	2.40	0.55
3:DL:47:ILE:HG12	3:DL:59:TYR:CD2	2.41	0.55
3:DL:178:THR:OG1	3:DL:181:GLU:HB2	2.06	0.55
4:EC:8:HIS:NE2	4:EC:21:TRP:HH2	2.05	0.55
3:ED:211:CYS:O	3:ED:216:LYS:N	2.37	0.55
3:EF:380:ARG:O	3:EF:384:GLN:HG2	2.05	0.55
4:EK:12:ALA:HB2	39:EK:501:GTP:H5"	1.87	0.55
4:EK:423:GLU:O	4:EK:427:ALA:N	2.36	0.55
11:F1:195:LEU:O	11:F1:199:GLU:HG3	2.06	0.55
11:F2:231:LYS:O	11:F2:235:ARG:NH1	2.40	0.55
11:F3:188:LEU:HD21	11:F3:223:LYS:HE3	1.89	0.55
11:F4:98:SER:O	11:F4:102:GLN:NE2	2.30	0.55
11:F6:174:LYS:NZ	11:F6:237:ASP:OD1	2.34	0.55
4:FE:119:LEU:HD23	4:FE:122:ILE:HD11	1.89	0.55
4:FE:331:ALA:O	4:FE:334:THR:OG1	2.24	0.55
3:FF:2:ARG:HH12	4:FG:96:LYS:HB3	1.71	0.55
3:FH:139:LEU:N	3:FH:168:SER:OG	2.39	0.55
3:FH:286:VAL:HG11	3:FH:325:GLU:HB2	1.88	0.55
11:Fg:410:ASP:HB3	11:Fg:412:PRO:HD2	1.87	0.55
11:Fj:160:LEU:HD13	11:Fj:250:LEU:HD23	1.89	0.55
11:Fj:353:VAL:HA	11:Fj:356:LYS:HE2	1.89	0.55
13:G1:187:ASP:OD1	13:G1:190:THR:OG1	2.19	0.55
14:G4:635:PHE:CE2	14:G4:698:ASN:HA	2.41	0.55
3:GD:118:ASP:OD1	3:GD:121:ARG:NH1	2.39	0.55
3:GD:269:GLY:N	3:GD:367:PHE:O	2.40	0.55
4:GK:117:LEU:O	4:GK:121:ARG:HG2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H5:12:PRO:O	15:H5:15:HIS:NE2	2.40	0.55
15:H6:292:MET:O	15:H6:295:ASN:N	2.40	0.55
4:HA:1:MET:O	4:HA:131:GLY:HA3	2.07	0.55
4:HC:154:MET:HG2	4:HC:166:LYS:NZ	2.21	0.55
3:HJ:235:GLY:O	3:HJ:238:THR:OG1	2.24	0.55
4:HK:88:HIS:CE1	4:HK:90:GLU:HG2	2.41	0.55
4:IA:36:MET:HG3	4:IA:41:THR:OG1	2.07	0.55
4:IG:256:GLN:O	4:IG:260:VAL:HG12	2.06	0.55
3:IH:309:ARG:HE	3:IH:426:GLN:HE21	1.53	0.55
4:II:320:ARG:HG2	4:II:358:GLN:O	2.07	0.55
4:IK:216:ASN:HD21	4:IK:275:VAL:HG23	1.72	0.55
3:JD:28:HIS:ND1	3:JD:43:GLN:HB2	2.21	0.55
3:JD:313:VAL:HG23	3:JD:349:VAL:HA	1.89	0.55
4:JG:256:GLN:O	4:JG:260:VAL:HG12	2.06	0.55
3:JH:141:GLY:HA3	39:JH:501:GTP:H5"	1.88	0.55
4:JI:245:ASP:O	4:JI:356:ASN:ND2	2.40	0.55
4:JK:6:SER:HA	4:JK:136:LEU:HB3	1.89	0.55
3:JL:254:ALA:O	3:JL:258:VAL:N	2.40	0.55
21:K2:196:ASP:OD1	21:K2:197:SER:N	2.39	0.55
21:K3:128:ALA:HA	21:K3:131:ARG:HH21	1.71	0.55
21:K3:243:GLN:CD	21:K3:244:ALA:N	2.65	0.55
21:K3:377:ILE:O	21:K4:115:ARG:NE	2.39	0.55
21:K4:320:ASP:OD1	21:K4:321:ILE:N	2.40	0.55
3:KB:131:GLN:HB3	3:KB:163:ILE:HD12	1.88	0.55
4:KC:12:ALA:HB1	39:KC:501:GTP:C2	2.41	0.55
4:KC:176:GLN:NE2	4:KC:207:GLU:OE2	2.39	0.55
4:KE:214:ARG:NH1	4:KE:215:ARG:HG3	2.22	0.55
3:KF:24:ILE:HG23	3:KF:28:HIS:CE1	2.42	0.55
4:KG:406:HIS:HA	4:KG:409:VAL:HG22	1.89	0.55
3:KH:285:THR:O	3:KH:288:GLU:HG3	2.07	0.55
3:KH:357:PRO:HB3	3:KH:362:LYS:HA	1.88	0.55
4:KI:101:ASN:HA	4:KI:144:GLY:HA2	1.87	0.55
3:KJ:183:TYR:CZ	3:KJ:388:MET:HG3	2.42	0.55
4:KK:396:ASP:OD1	4:KK:397:LEU:N	2.40	0.55
3:KL:2:ARG:HA	3:KL:129:CYS:O	2.06	0.55
3:KL:302:ALA:HB1	3:KL:377:LEU:HD21	1.87	0.55
20:L:158:LEU:HB3	20:L:161:LYS:HE2	1.87	0.55
22:L1:191:GLU:HA	22:L1:194:GLU:HB2	1.89	0.55
4:LA:101:ASN:HA	4:LA:144:GLY:HA2	1.87	0.55
3:LB:285:THR:O	3:LB:288:GLU:HG3	2.06	0.55
3:LD:152:ILE:HD12	3:LD:155:ILE:HD11	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:LE:125:LEU:HD13	4:LE:128:LEU:HD21	1.89	0.55
3:LF:155:ILE:HA	3:LF:158:GLU:HB2	1.89	0.55
3:LF:309:ARG:H	3:LF:372:THR:HG1	1.54	0.55
4:LG:236:SER:O	4:LG:243:ARG:NH2	2.36	0.55
3:LJ:271:ALA:HB1	3:LJ:272:PRO:HD2	1.88	0.55
24:M3:48:LYS:NZ	24:M3:92:TYR:HB3	2.22	0.55
4:MC:103:TYR:HB2	4:MC:186:ASN:HB2	1.89	0.55
4:ME:295:CYS:HB2	4:ME:377:MET:HG2	1.88	0.55
4:ME:401:LYS:C	4:ME:402:ARG:HD3	2.31	0.55
3:MF:250:LEU:HD13	3:MF:253:LEU:HD12	1.89	0.55
3:MH:380:ARG:O	3:MH:384:GLN:NE2	2.39	0.55
3:MH:386:THR:HA	28:O2:39:THR:HG21	1.87	0.55
4:MI:287:SER:OG	4:MI:290:GLU:OE1	2.24	0.55
3:MJ:174:LYS:HG3	3:MJ:175:VAL:HG12	1.89	0.55
3:ML:322:SER:N	3:ML:325:GLU:OE2	2.40	0.55
3:ND:117:LEU:HD11	3:ND:154:LYS:HD2	1.89	0.55
3:NF:278:SER:HA	3:NF:281:TYR:HB2	1.88	0.55
3:NH:68:LEU:HD12	3:NH:97:ALA:HB2	1.89	0.55
3:NH:234:SER:O	3:NH:238:THR:HG23	2.07	0.55
3:NH:256:ASN:HB3	3:NH:350:LYS:HG3	1.89	0.55
4:NI:91:GLN:HG3	4:NI:121:ARG:HH21	1.71	0.55
4:NI:214:ARG:NH1	4:NI:215:ARG:HG3	2.21	0.55
28:O1:92:LEU:HA	28:O1:95:TRP:HB3	1.89	0.55
28:O3:92:LEU:HA	28:O3:95:TRP:HB3	1.88	0.55
4:OC:105:ARG:O	4:OC:109:THR:OG1	2.22	0.55
4:OE:7:ILE:N	4:OE:136:LEU:O	2.31	0.55
4:OI:33:ASP:OD1	4:OI:34:GLY:N	2.39	0.55
3:OL:178:THR:HB	3:OL:181:GLU:HB2	1.89	0.55
4:PC:36:MET:HE3	4:PC:37:PRO:HD2	1.88	0.55
3:PD:4:ILE:HD11	3:PD:131:GLN:HB2	1.89	0.55
4:PG:274:PRO:HG3	4:PG:374:ALA:HA	1.89	0.55
4:PI:331:ALA:O	4:PI:334:THR:OG1	2.25	0.55
3:PJ:12:CYS:SG	3:PJ:13:GLY:N	2.80	0.55
4:PK:358:GLN:NE2	4:PK:359:PRO:O	2.36	0.55
4:PM:84:ARG:NH2	37:YV:124:HIS:HA	2.20	0.55
4:QG:52:PHE:HZ	4:QG:239:THR:HB	1.72	0.55
4:QI:172:TYR:N	4:QI:204:VAL:O	2.31	0.55
3:QJ:176:SER:O	3:QJ:178:THR:N	2.40	0.55
3:QJ:211:CYS:HA	3:QJ:215:LEU:HB2	1.89	0.55
3:RF:83:GLN:O	3:RF:86:ARG:NH2	2.39	0.55
4:RI:208:ALA:H	4:RI:304:LYS:HZ1	1.52	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:RI:260:VAL:HG23	4:RI:265:ILE:O	2.07	0.55
4:RK:49:PHE:O	4:RK:53:PHE:N	2.40	0.55
3:RL:132:GLY:HA2	3:RL:162:ARG:HB3	1.88	0.55
4:RM:33:ASP:OD1	4:RM:34:GLY:N	2.39	0.55
4:RM:371:VAL:HG11	4:RM:374:ALA:HB2	1.88	0.55
4:SC:208:ALA:N	4:SC:304:LYS:HZ1	2.05	0.55
3:SD:250:LEU:HD13	3:SD:253:LEU:HD12	1.88	0.55
4:SG:49:PHE:O	4:SG:53:PHE:N	2.38	0.55
4:SI:397:LEU:HD13	4:SI:401:LYS:HZ1	1.71	0.55
3:SJ:324:LYS:HE2	4:SK:222:PRO:HD2	1.88	0.55
4:SK:349:THR:HG23	3:SL:179:VAL:HA	1.89	0.55
3:SL:107:THR:OG1	3:SL:401:GLU:OE2	2.23	0.55
3:SL:139:LEU:N	3:SL:168:SER:OG	2.39	0.55
3:TD:186:THR:HG21	3:TD:385:PHE:HD2	1.71	0.55
4:TI:423:GLU:HA	4:TI:426:ALA:HB3	1.89	0.55
3:TJ:258:VAL:O	4:TK:407:TRP:NE1	2.35	0.55
4:TK:6:SER:HB3	4:TK:65:ALA:HB2	1.89	0.55
4:TM:46:ASP:OD1	4:TM:50:ASN:ND2	2.37	0.55
4:UC:392:ASP:OD1	4:UC:393:HIS:N	2.40	0.55
4:UE:395:PHE:HD2	4:UE:422:ARG:HH11	1.55	0.55
3:UH:11:GLN:HE21	39:UH:501:GTP:H3'	1.71	0.55
4:UI:49:PHE:O	4:UI:53:PHE:N	2.39	0.55
3:UJ:83:GLN:O	3:UJ:86:ARG:NH2	2.39	0.55
3:UL:151:LEU:HD22	3:UL:154:LYS:HZ1	1.71	0.55
4:VA:321:GLY:N	4:VA:356:ASN:O	2.27	0.55
3:VF:385:PHE:HZ	3:VF:408:PHE:HB3	1.70	0.55
3:VJ:28:HIS:O	3:VJ:43:GLN:NE2	2.39	0.55
4:VK:51:THR:HG23	4:VK:52:PHE:CD2	2.41	0.55
3:VL:7:LEU:HD13	3:VL:64:VAL:HB	1.88	0.55
3:VL:47:ILE:HG13	3:VL:51:TYR:HB2	1.89	0.55
3:WB:392:LYS:HB2	3:WB:395:LEU:HD13	1.87	0.55
4:WE:351:PHE:CZ	3:WF:175:VAL:HB	2.41	0.55
4:WG:172:TYR:HB2	4:WG:203:MET:HB2	1.88	0.55
34:XC:13:ILE:HG22	34:XC:25:TRP:CZ2	2.42	0.55
35:XK:134:ILE:HG22	35:XK:138:LYS:HZ2	1.72	0.55
37:YG:68:MET:O	37:YG:72:ILE:HG13	2.07	0.55
37:YL:25:PHE:HE1	37:YL:66:LEU:HA	1.71	0.55
3:AD:117:LEU:HD11	3:AD:154:LYS:HD2	1.87	0.55
4:AE:271:THR:HA	4:AE:302:MET:HE1	1.89	0.55
3:AF:273:LEU:H	3:AF:292:GLN:HE22	1.55	0.55
3:AH:5:VAL:HG23	3:AH:130:LEU:HD21	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AH:285:THR:O	3:AH:288:GLU:HG3	2.07	0.55
4:AI:172:TYR:HB2	4:AI:203:MET:HB2	1.89	0.55
3:AJ:309:ARG:HE	3:AJ:426:GLN:HE21	1.53	0.55
3:AL:178:THR:HB	3:AL:181:GLU:HB2	1.89	0.55
3:AL:197:ASP:OD1	3:AL:198:GLU:N	2.39	0.55
4:AM:187:SER:O	4:AM:190:THR:OG1	2.19	0.55
4:AM:207:GLU:HB2	4:AM:304:LYS:HZ1	1.71	0.55
4:AM:278:ALA:O	4:AM:370:LYS:NZ	2.39	0.55
5:B3:140:GLU:HB2	5:B3:257:GLN:HG2	1.88	0.55
5:B3:282:GLN:NE2	5:B4:28:ALA:HB3	2.22	0.55
5:B3:326:ASN:HB3	8:D2:136:LEU:HD11	1.89	0.55
5:B8:100:GLU:OE1	8:D7:161:ARG:NH1	2.39	0.55
5:B8:312:LYS:O	5:B8:316:THR:HG23	2.07	0.55
3:BB:302:ALA:HB1	3:BB:377:LEU:HD11	1.88	0.55
4:BC:50:ASN:O	4:BC:64:ARG:NH1	2.40	0.55
3:BF:47:ILE:HG22	15:H3:23:PHE:CE1	2.41	0.55
4:BG:411:GLU:OE2	4:BG:413:MET:HE1	2.07	0.55
4:BG:417:GLU:OE1	4:BG:417:GLU:N	2.28	0.55
3:BH:385:PHE:HA	3:BH:388:MET:HE2	1.87	0.55
3:BJ:372:THR:HG21	3:BJ:426:GLN:HG3	1.87	0.55
3:BL:12:CYS:HA	39:BL:501:GTP:HN22	1.72	0.55
3:BL:268:PRO:HD2	3:BL:301:ALA:HB2	1.89	0.55
7:C3:136:ARG:HE	7:C3:139:GLN:NE2	2.04	0.55
7:C4:246:SER:HB3	11:Fm:235:ARG:NH2	2.22	0.55
7:C5:399:ARG:O	7:C5:402:GLU:HG3	2.07	0.55
3:CF:309:ARG:H	3:CF:372:THR:HG1	1.52	0.55
4:CK:152:LEU:O	4:CK:156:ARG:NH1	2.40	0.55
8:D3:162:ARG:HH22	8:D3:168:VAL:H	1.55	0.55
8:D7:321:HIS:HA	8:D7:324:LYS:NZ	2.21	0.55
8:D8:343:ILE:HG12	8:D8:391:LEU:HD13	1.88	0.55
8:D9:183:ILE:O	8:D9:187:GLN:HG2	2.07	0.55
3:DB:324:LYS:HD2	4:DC:221:ARG:HA	1.87	0.55
3:DB:375:GLN:HA	3:DB:378:PHE:CZ	2.42	0.55
3:DD:3:GLU:OE2	3:DD:127:CYS:HB2	2.07	0.55
4:DI:371:VAL:HG11	4:DI:374:ALA:HB2	1.89	0.55
9:E:415:SER:HB3	3:IB:217:LEU:HD11	1.87	0.55
4:EA:107:HIS:HA	4:EA:152:LEU:HD23	1.88	0.55
4:EI:265:ILE:HD12	4:EI:432:TYR:CE1	2.42	0.55
3:EL:217:LEU:HD11	3:EL:220:PRO:HB3	1.89	0.55
3:EL:284:LEU:HD12	3:EL:363:MET:HG2	1.89	0.55
11:F3:164:LEU:HA	11:F3:167:ASN:HD22	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:F3:193:GLU:O	11:F3:197:ASN:ND2	2.39	0.55
11:F3:315:ILE:HG23	11:F3:318:ARG:NH2	2.21	0.55
11:F3:393:GLN:HE22	11:F4:279:PHE:HD1	1.54	0.55
11:F7:213:LYS:O	11:F7:217:ARG:HD3	2.06	0.55
4:FA:67:PHE:O	4:FA:93:ILE:N	2.39	0.55
4:FA:396:ASP:OD1	4:FA:397:LEU:N	2.39	0.55
3:FB:77:ARG:O	3:FB:77:ARG:NH1	2.34	0.55
4:FC:11:GLN:HB3	39:FC:501:GTP:O1B	2.06	0.55
4:FC:51:THR:HG23	4:FC:52:PHE:CD2	2.41	0.55
4:FC:208:ALA:H	4:FC:304:LYS:NZ	2.04	0.55
3:FD:251:ARG:HA	3:FD:254:ALA:HB3	1.88	0.55
4:FE:102:ASN:HB3	4:FE:105:ARG:HB2	1.87	0.55
3:FF:375:GLN:HA	3:FF:378:PHE:CZ	2.42	0.55
4:FG:139:HIS:CD2	4:FG:170:ALA:HB2	2.42	0.55
4:FI:103:TYR:HB2	4:FI:186:ASN:HB2	1.89	0.55
11:Fk:107:GLU:HA	11:Fk:110:ARG:HD2	1.88	0.55
12:G:334:GLU:HA	12:G:337:ARG:HB2	1.89	0.55
13:G1:271:ASP:O	13:G1:296:ARG:NH1	2.39	0.55
14:G4:436:TYR:HE2	14:G4:507:LEU:HB3	1.70	0.55
14:G6:639:ILE:HA	14:G6:642:CYS:HB3	1.89	0.55
3:GB:4:ILE:HD11	3:GB:131:GLN:HB2	1.88	0.55
4:GE:220:GLU:O	4:GE:221:ARG:NE	2.37	0.55
3:GF:180:VAL:HA	3:GF:183:TYR:HD2	1.72	0.55
4:GG:207:GLU:HB2	4:GG:304:LYS:NZ	2.21	0.55
4:GG:262:TYR:HE1	3:GH:393:ALA:HA	1.72	0.55
4:GK:325:PRO:HA	4:GK:328:VAL:HB	1.88	0.55
3:GL:206:ALA:O	3:GL:210:ILE:HG12	2.07	0.55
15:H4:218:ILE:O	15:H4:218:ILE:HG13	2.07	0.55
4:HA:388:TRP:HB3	4:HA:425:LEU:HD11	1.89	0.55
3:HB:218:THR:OG1	3:HB:219:THR:N	2.40	0.55
3:HB:318:ARG:HD3	3:HB:358:PRO:HG3	1.88	0.55
3:HJ:378:PHE:CD1	3:HJ:419:VAL:HG22	2.42	0.55
17:I1:57:LEU:HB3	17:I1:69:PHE:CZ	2.42	0.55
3:IB:252:LYS:HD2	4:IC:101:ASN:ND2	2.22	0.55
4:IG:85:GLN:HG2	4:IG:86:LEU:HD12	1.88	0.55
4:IG:220:GLU:O	4:IG:221:ARG:NE	2.40	0.55
4:II:9:VAL:HA	4:II:68:VAL:HG23	1.89	0.55
4:IM:144:GLY:N	39:IM:501:GTP:O2B	2.37	0.55
3:JF:286:VAL:HG21	3:JF:325:GLU:HG3	1.88	0.55
4:JG:52:PHE:HZ	4:JG:239:THR:HB	1.72	0.55
4:JG:208:ALA:N	4:JG:304:LYS:HZ1	2.01	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:JI:83:TYR:HB3	4:JI:86:LEU:HD12	1.88	0.55
4:JI:172:TYR:HB2	4:JI:203:MET:HB2	1.89	0.55
21:K2:34:LEU:HB3	21:K2:38:ARG:NH1	2.18	0.55
21:K3:152:ARG:O	21:K3:156:ARG:NH1	2.40	0.55
21:K4:371:MET:HE1	21:K4:426:ASN:HB2	1.87	0.55
4:KC:87:PHE:HB3	4:KC:92:LEU:HD11	1.89	0.55
3:KD:12:CYS:SG	3:KD:13:GLY:N	2.80	0.55
3:KD:117:LEU:HD11	3:KD:154:LYS:HD2	1.89	0.55
4:KE:415:GLU:HA	4:KE:418:PHE:CD2	2.42	0.55
4:KI:49:PHE:HB2	4:KI:53:PHE:HB2	1.88	0.55
4:KI:103:TYR:HB2	4:KI:186:ASN:HB3	1.88	0.55
3:KJ:269:GLY:N	3:KJ:367:PHE:O	2.40	0.55
3:KJ:309:ARG:H	3:KJ:372:THR:HG1	1.50	0.55
3:KL:322:SER:N	3:KL:325:GLU:OE2	2.39	0.55
22:L1:173:ASP:OD1	22:L1:177:GLN:NE2	2.39	0.55
4:LE:6:SER:HA	4:LE:136:LEU:HB2	1.89	0.55
3:LF:328:GLU:OE1	3:LF:332:ASN:ND2	2.39	0.55
3:LH:388:MET:O	3:LH:392:LYS:N	2.40	0.55
4:LI:287:SER:OG	4:LI:290:GLU:OE1	2.22	0.55
3:LJ:11:GLN:HG3	39:LJ:501:GTP:PA	2.46	0.55
3:LJ:209:ASP:O	3:LJ:213:ARG:HG2	2.07	0.55
3:LJ:285:THR:O	3:LJ:288:GLU:HG3	2.06	0.55
4:LK:216:ASN:HB2	4:LK:276:ILE:HD12	1.88	0.55
3:LL:269:GLY:N	3:LL:367:PHE:O	2.40	0.55
3:MB:121:ARG:HA	3:MB:124:ALA:HB3	1.89	0.55
3:MF:141:GLY:HA3	39:MF:501:GTP:H5"	1.88	0.55
4:MG:196:GLU:OE1	4:MG:196:GLU:N	2.37	0.55
3:ML:3:GLU:HG2	3:ML:130:LEU:HD23	1.88	0.55
3:NB:406:MET:O	3:NB:409:THR:OG1	2.22	0.55
3:ND:320:ARG:O	3:ND:321:MET:HE2	2.07	0.55
3:NH:392:LYS:HB2	3:NH:395:LEU:HD13	1.87	0.55
4:OC:388:TRP:HB3	4:OC:425:LEU:HD11	1.89	0.55
3:OH:285:THR:O	3:OH:288:GLU:HG3	2.07	0.55
4:OK:88:HIS:CD2	4:PK:280:LYS:HZ3	2.25	0.55
4:OK:176:GLN:NE2	4:OK:207:GLU:OE2	2.40	0.55
4:OK:236:SER:O	4:OK:243:ARG:NH2	2.36	0.55
3:OL:311:LEU:HD23	3:OL:342:VAL:HG11	1.88	0.55
3:PD:83:GLN:O	3:PD:86:ARG:NH2	2.40	0.55
3:PF:174:LYS:HG3	3:PF:175:VAL:HG12	1.89	0.55
3:PF:285:THR:O	3:PF:288:GLU:HG3	2.06	0.55
3:PH:68:LEU:HD12	3:PH:97:ALA:HB2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PH:83:GLN:O	3:PH:86:ARG:NH2	2.38	0.55
3:PL:235:GLY:O	3:PL:238:THR:OG1	2.22	0.55
30:Q1:1415:MET:CE	30:Q1:1418:MET:HE2	2.35	0.55
30:Q2:1421:GLN:HE21	30:Q2:1467:GLY:HA2	1.71	0.55
30:Q3:1500:SER:C	30:Q3:1501:LEU:HD12	2.31	0.55
3:QB:36:TYR:CZ	3:QB:38:GLY:HA2	2.42	0.55
4:QC:265:ILE:HD12	4:QC:432:TYR:CE1	2.42	0.55
3:QF:317:PHE:HB3	3:QF:321:MET:HE3	1.89	0.55
3:QH:350:LYS:HE3	4:QI:180:ALA:HA	1.89	0.55
4:QI:1:MET:SD	4:QI:2:ARG:N	2.80	0.55
3:QJ:316:VAL:HG22	3:QJ:352:ALA:HB3	1.88	0.55
3:QL:2:ARG:HB3	3:QL:131:GLN:NE2	2.22	0.55
4:RE:70:LEU:HD11	4:RE:149:PHE:CE2	2.41	0.55
3:RJ:316:VAL:HG22	3:RJ:352:ALA:HB3	1.88	0.55
4:RK:68:VAL:HG12	4:RK:93:ILE:HB	1.89	0.55
3:RL:58:LYS:HZ2	3:RL:84:ILE:HD12	1.71	0.55
3:RL:139:LEU:HD21	3:RL:170:VAL:HG22	1.87	0.55
3:RL:415:MET:O	3:RL:419:VAL:HG23	2.07	0.55
4:RM:216:ASN:ND2	4:RM:275:VAL:O	2.40	0.55
4:RM:229:ARG:HE	4:RM:368:LEU:HD22	1.72	0.55
4:SC:180:ALA:HB3	4:SC:183:GLU:HB2	1.89	0.55
4:SC:349:THR:HG23	3:SD:179:VAL:HG12	1.88	0.55
3:SD:149:THR:O	3:SD:191:GLN:NE2	2.39	0.55
3:SH:372:THR:HB	3:SH:375:GLN:HE22	1.71	0.55
4:SI:207:GLU:HB2	4:SI:304:LYS:NZ	2.22	0.55
4:SM:209:ILE:HG23	4:SM:230:LEU:HD21	1.88	0.55
4:TC:6:SER:OG	4:TC:8:HIS:NE2	2.34	0.55
3:TD:293:MET:HE3	3:TD:367:PHE:HB2	1.89	0.55
3:TH:211:CYS:HA	3:TH:215:LEU:HB2	1.88	0.55
3:TL:47:ILE:HG21	3:TL:59:TYR:CZ	2.42	0.55
3:TN:271:ALA:HB2	3:TN:293:MET:HE2	1.88	0.55
33:U:485:ASN:HA	33:U:488:LYS:HG2	1.88	0.55
4:UG:34:GLY:HA2	4:UG:86:LEU:HD21	1.88	0.55
4:UG:321:GLY:N	4:UG:356:ASN:O	2.28	0.55
3:UH:28:HIS:CE1	3:UH:241:ARG:HD3	2.41	0.55
3:UJ:2:ARG:HA	3:UJ:129:CYS:O	2.07	0.55
3:UL:305:PRO:HB2	3:UL:310:TYR:HE1	1.71	0.55
3:VF:322:SER:N	3:VF:325:GLU:OE2	2.36	0.55
3:VH:322:SER:OG	3:VH:323:MET:SD	2.65	0.55
3:VL:2:ARG:HA	3:VL:129:CYS:O	2.06	0.55
3:VL:11:GLN:HE21	39:VL:501:GTP:H3'	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:WB:398:TYR:HB3	3:WB:403:MET:HB2	1.88	0.55
4:WC:271:THR:HB	4:WC:377:MET:HE3	1.88	0.55
3:WJ:350:LYS:HE3	4:WK:180:ALA:HA	1.88	0.55
4:WK:401:LYS:C	4:WK:402:ARG:HD3	2.32	0.55
34:XB:168:SER:HB2	34:XB:172:TYR:CD2	2.42	0.55
35:XK:209:ILE:O	35:XK:212:THR:OG1	2.24	0.55
37:YO:130:ALA:HB3	37:YO:131:ARG:HH11	1.72	0.55
37:YW:90:THR:O	37:YW:94:ASN:N	2.29	0.55
1:A:212:GLU:HA	1:A:215:MET:HE2	1.88	0.55
2:A1:102:LEU:HD21	2:A1:150:LEU:HB3	1.88	0.55
2:A2:31:ARG:HB2	5:B4:55:TRP:CH2	2.42	0.55
3:AB:3:GLU:OE2	3:AB:129:CYS:N	2.40	0.55
4:AC:254:GLU:OE1	4:AC:254:GLU:N	2.37	0.55
3:AD:28:HIS:ND1	3:AD:43:GLN:HB2	2.22	0.55
5:B1:270:ARG:HH12	5:B1:274:SER:HB2	1.72	0.55
3:BB:174:LYS:HG3	3:BB:175:VAL:HG12	1.88	0.55
3:BD:194:GLU:OE1	3:BD:195:ASN:ND2	2.40	0.55
4:BE:244:PHE:HB2	4:BE:356:ASN:HD21	1.71	0.55
3:BH:276:ARG:HB3	14:G5:125:LEU:HA	1.89	0.55
4:BI:287:SER:N	4:BI:290:GLU:OE2	2.40	0.55
3:BJ:330:MET:SD	3:BJ:331:LEU:HD22	2.47	0.55
4:BK:79:ARG:HH22	15:H5:19:GLY:HA3	1.72	0.55
3:BL:91:VAL:HG11	3:BL:116:VAL:HG12	1.89	0.55
3:BL:252:LYS:HE3	4:BM:100:ALA:HA	1.89	0.55
4:BM:115:VAL:HG21	4:BM:156:ARG:HD3	1.88	0.55
4:BM:333:ALA:HA	4:BM:336:LYS:HD2	1.89	0.55
6:C:119:PRO:HB3	6:C:175:GLY:HA3	1.88	0.55
7:C3:197:GLU:HA	7:C3:200:PHE:CE2	2.41	0.55
7:C4:133:GLN:HB3	7:C4:137:LYS:NZ	2.21	0.55
3:CF:285:THR:O	3:CF:288:GLU:HG3	2.07	0.55
4:CG:9:VAL:HG11	4:CG:150:ALA:HB2	1.89	0.55
4:CK:319:TYR:N	4:CK:354:GLY:O	2.40	0.55
6:D:392:ILE:HG21	32:T:337:MET:HE2	1.88	0.55
8:D2:138:LEU:HD11	8:D2:282:ILE:HG21	1.89	0.55
8:D4:136:LEU:HB3	8:D4:140:ARG:HH12	1.72	0.55
8:D8:197:ALA:O	8:D8:201:ILE:HG12	2.07	0.55
8:D9:315:LEU:HD23	8:D9:318:LEU:HD12	1.88	0.55
4:DA:333:ALA:HA	4:DA:336:LYS:HD2	1.89	0.55
3:DB:211:CYS:O	3:DB:216:LYS:N	2.38	0.55
3:DB:250:LEU:HD13	3:DB:253:LEU:HD12	1.89	0.55
3:DF:16:ILE:HD13	3:DF:226:ASN:ND2	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DF:84:ILE:O	3:DF:86:ARG:NH1	2.39	0.55
3:DH:17:GLY:HA2	3:DH:20:PHE:HB3	1.89	0.55
9:E:590:PHE:HB2	9:E:601:ILE:HD11	1.87	0.55
4:EA:433:GLU:O	4:EA:437:VAL:HG23	2.06	0.55
4:EE:171:ILE:HD12	4:EE:204:VAL:HG23	1.89	0.55
3:EF:268:PRO:HD2	3:EF:301:ALA:HB2	1.88	0.55
11:F1:171:ASP:O	11:F1:175:ARG:NE	2.36	0.55
11:F2:129:GLN:HA	11:F2:132:HIS:CD2	2.42	0.55
11:F6:162:ARG:HB3	11:F6:311:ARG:HH12	1.71	0.55
4:FA:70:LEU:HA	4:FA:95:GLY:HA3	1.88	0.55
3:FB:132:GLY:HA3	3:FB:163:ILE:HB	1.89	0.55
3:FD:402:GLY:C	3:FD:403:MET:HE2	2.32	0.55
4:FE:316:CYS:HB3	4:FE:378:LEU:HB3	1.89	0.55
4:FE:392:ASP:OD1	4:FE:393:HIS:N	2.39	0.55
4:FI:161:TYR:O	4:FI:166:LYS:NZ	2.35	0.55
4:FI:213:CYS:O	4:FI:218:ASP:N	2.39	0.55
4:FK:3:GLU:OE2	4:FK:130:THR:N	2.29	0.55
11:Fa:415:ARG:CZ	11:Fb:141:ASN:OD1	2.55	0.55
11:Ff:263:ILE:HA	11:Ff:266:ASN:HD21	1.72	0.55
11:Ff:427:LEU:O	11:Ff:431:LYS:HG2	2.06	0.55
11:Fk:257:LYS:HA	11:Fk:260:ALA:HB3	1.89	0.55
12:G:41:GLN:HG3	12:G:45:HIS:CE1	2.42	0.55
13:G1:34:ARG:HE	13:G1:39:VAL:HG21	1.72	0.55
14:G4:488:LYS:NZ	14:G4:501:TYR:O	2.40	0.55
14:G4:728:ILE:HG12	14:G4:731:LYS:HA	1.89	0.55
14:G5:467:GLU:HB2	14:G5:480:PHE:HE2	1.72	0.55
4:GE:187:SER:OG	4:GE:188:ILE:HD12	2.07	0.55
4:GE:256:GLN:HE22	3:GF:397:TRP:HE1	1.54	0.55
4:GE:288:VAL:HG21	4:GE:328:VAL:HG22	1.89	0.55
4:GE:364:PRO:HG3	23:M:99:PRO:HB3	1.88	0.55
4:GI:438:ASP:HA	3:GJ:391:ARG:HH12	1.72	0.55
4:GK:186:ASN:OD1	4:GK:187:SER:N	2.40	0.55
3:GL:285:THR:O	3:GL:288:GLU:HG3	2.07	0.55
4:HC:3:GLU:OE2	4:HC:130:THR:N	2.33	0.55
4:HC:302:MET:N	4:HC:302:MET:SD	2.80	0.55
4:HC:329:ASN:HA	4:HC:332:ILE:HG12	1.88	0.55
3:HF:2:ARG:HA	3:HF:129:CYS:O	2.06	0.55
3:HH:2:ARG:HG2	3:HH:131:GLN:CD	2.32	0.55
3:HL:378:PHE:CD1	3:HL:419:VAL:HG22	2.42	0.55
4:IA:11:GLN:NE2	39:IA:501:GTP:O3A	2.39	0.55
4:IC:192:HIS:HA	4:IC:195:LEU:HD23	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:IC:433:GLU:O	4:IC:437:VAL:N	2.36	0.55
3:IF:132:GLY:HA3	3:IF:163:ILE:H	1.71	0.55
3:IF:385:PHE:HB3	3:IF:408:PHE:HZ	1.71	0.55
4:IG:6:SER:HA	4:IG:136:LEU:HB2	1.89	0.55
3:IH:77:ARG:O	3:IH:77:ARG:NH1	2.38	0.55
4:II:229:ARG:HH12	4:II:367:ASP:H	1.54	0.55
19:J3:33:SER:HA	19:J3:104:HIS:HB2	1.89	0.55
4:JE:10:GLY:O	4:JE:14:VAL:HG13	2.07	0.55
4:JI:11:GLN:HB2	4:JI:74:VAL:HG21	1.88	0.55
4:JI:161:TYR:O	4:JI:166:LYS:NZ	2.38	0.55
4:JI:401:LYS:C	4:JI:402:ARG:HD3	2.32	0.55
3:JL:11:GLN:HE21	39:JL:501:GTP:H3'	1.71	0.55
21:K2:239:GLN:HA	21:K2:242:LEU:HB2	1.87	0.55
4:KC:154:MET:HE1	4:KC:197:HIS:HB2	1.87	0.55
4:KG:111:GLY:HA2	4:KG:149:PHE:HE1	1.72	0.55
3:KL:7:LEU:HD13	3:KL:64:VAL:HB	1.88	0.55
3:KL:102:ALA:HA	3:KL:105:HIS:HB3	1.89	0.55
22:L1:113:VAL:HG11	4:LC:405:VAL:HG23	1.89	0.55
22:L3:255:LYS:HG2	33:W:105:SER:HB3	1.89	0.55
3:LB:322:SER:N	3:LB:325:GLU:OE2	2.39	0.55
4:LC:132:LEU:HD21	28:O1:22:TRP:HZ2	1.72	0.55
4:LE:105:ARG:HG2	4:LE:109:THR:HG21	1.88	0.55
3:LH:139:LEU:HD21	3:LH:170:VAL:HG22	1.89	0.55
4:LK:54:SER:HB2	4:LK:62:VAL:HB	1.88	0.55
3:MD:183:TYR:HA	3:MD:385:PHE:HE1	1.72	0.55
4:MI:6:SER:HA	4:MI:136:LEU:HB2	1.89	0.55
3:MJ:286:VAL:HG21	3:MJ:325:GLU:HG3	1.88	0.55
3:MJ:357:PRO:HB3	3:MJ:362:LYS:HA	1.89	0.55
4:MM:229:ARG:HE	4:MM:363:VAL:HG11	1.72	0.55
4:NA:206:ASN:HA	4:NA:209:ILE:HD12	1.89	0.55
4:NE:102:ASN:HB3	4:NE:105:ARG:HB2	1.89	0.55
3:NF:60:VAL:HG23	3:NF:86:ARG:HH11	1.72	0.55
4:NI:12:ALA:O	39:NI:501:GTP:N1	2.40	0.55
4:NI:392:ASP:OD1	4:NI:393:HIS:N	2.40	0.55
3:NJ:3:GLU:OE2	3:NJ:129:CYS:N	2.40	0.55
3:NJ:392:LYS:HB2	3:NJ:395:LEU:HD13	1.89	0.55
3:NL:317:PHE:O	3:NL:354:CYS:N	2.38	0.55
3:OH:28:HIS:O	3:OH:43:GLN:NE2	2.40	0.55
3:OH:103:LYS:O	3:OH:108:GLU:N	2.33	0.55
3:OH:255:VAL:HG12	4:OI:407:TRP:CD2	2.42	0.55
3:OH:347:ASN:HB3	4:OI:178:SER:HB3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:OJ:252:LYS:O	3:OJ:256:ASN:ND2	2.39	0.55
3:OL:309:ARG:N	3:OL:372:THR:OG1	2.29	0.55
29:P2:139:VAL:HG12	29:P2:148:ILE:HD12	1.89	0.55
4:PA:264:ARG:HG2	4:PA:265:ILE:N	2.21	0.55
3:PD:398:TYR:HB3	3:PD:403:MET:HB2	1.88	0.55
4:PE:206:ASN:HA	4:PE:209:ILE:HD12	1.87	0.55
4:PE:209:ILE:HG23	4:PE:230:LEU:HD21	1.87	0.55
4:PG:102:ASN:HB3	4:PG:105:ARG:HB2	1.88	0.55
4:PK:392:ASP:OD1	4:PK:393:HIS:N	2.40	0.55
30:Q3:1508:ASN:HA	30:Q3:1511:LEU:HB2	1.89	0.55
4:QE:9:VAL:HA	4:QE:68:VAL:HG23	1.88	0.55
4:QG:252:LEU:HA	4:QG:255:PHE:HD2	1.72	0.55
4:QG:311:LYS:HE3	4:QG:344:VAL:HA	1.88	0.55
3:QL:172:SER:HB3	3:QL:175:VAL:O	2.07	0.55
3:QL:198:GLU:HA	3:QL:266:PHE:HE2	1.72	0.55
3:QL:309:ARG:HE	3:QL:426:GLN:HE21	1.55	0.55
4:QM:127:ASP:OD1	4:QM:128:LEU:N	2.40	0.55
3:RD:32:PRO:O	3:RD:83:GLN:NE2	2.28	0.55
3:RD:139:LEU:HD21	3:RD:170:VAL:HG22	1.88	0.55
4:RE:144:GLY:N	39:RE:501:GTP:O2B	2.39	0.55
4:RG:7:ILE:N	4:RG:136:LEU:O	2.36	0.55
4:RG:50:ASN:O	4:RG:64:ARG:NH1	2.40	0.55
3:RH:70:PRO:HA	3:RH:73:MET:HE2	1.89	0.55
4:RI:371:VAL:HG11	4:RI:374:ALA:HB2	1.87	0.55
4:RI:396:ASP:OD1	4:RI:397:LEU:N	2.40	0.55
3:RJ:317:PHE:HB3	3:RJ:321:MET:HE2	1.88	0.55
3:RL:309:ARG:HE	3:RL:426:GLN:HE21	1.54	0.55
3:RL:372:THR:HB	3:RL:375:GLN:HE22	1.71	0.55
4:RM:87:PHE:HD1	4:RM:91:GLN:HE22	1.55	0.55
3:SJ:11:GLN:HE21	39:SJ:501:GTP:H3'	1.70	0.55
3:SJ:52:ASN:OD1	3:SJ:62:ARG:NH1	2.39	0.55
3:SJ:415:MET:O	3:SJ:419:VAL:HG23	2.07	0.55
3:SL:235:GLY:O	3:SL:238:THR:OG1	2.18	0.55
4:SM:316:CYS:HB3	4:SM:378:LEU:HB2	1.87	0.55
3:TB:406:MET:O	3:TB:409:THR:OG1	2.18	0.55
4:TC:236:SER:O	4:TC:243:ARG:NH2	2.31	0.55
4:TE:67:PHE:HB2	4:TE:92:LEU:HD13	1.89	0.55
3:TF:52:ASN:OD1	3:TF:62:ARG:NH1	2.40	0.55
3:TF:211:CYS:HA	3:TF:215:LEU:HB2	1.88	0.55
4:TG:103:TYR:HB2	4:TG:186:ASN:HB2	1.89	0.55
3:TH:423:GLN:O	3:TH:427:ASP:N	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:TK:273:ALA:N	4:TK:377:MET:HE1	2.22	0.55
3:TL:258:VAL:HB	4:TM:407:TRP:CZ2	2.38	0.55
4:TM:317:MET:HE1	4:TM:351:PHE:HB2	1.87	0.55
4:UC:216:ASN:HD21	4:UC:275:VAL:HG23	1.72	0.55
3:UD:139:LEU:HD21	3:UD:170:VAL:HG22	1.87	0.55
3:UD:234:SER:O	3:UD:238:THR:HG23	2.07	0.55
4:UE:295:CYS:HB2	4:UE:377:MET:HE3	1.87	0.55
3:UF:3:GLU:HG2	3:UF:130:LEU:HD23	1.88	0.55
3:UH:100:ASN:HB3	3:UH:103:LYS:HB2	1.88	0.55
3:VB:291:GLN:NE2	3:VB:295:ASP:OD1	2.39	0.55
3:VB:300:MET:N	3:VB:300:MET:SD	2.79	0.55
3:VD:47:ILE:HG13	3:VD:51:TYR:HB2	1.88	0.55
3:VD:132:GLY:HA3	3:VD:163:ILE:H	1.72	0.55
4:VE:108:TYR:O	4:VE:112:LYS:NZ	2.25	0.55
3:VF:289:LEU:O	3:VF:293:MET:N	2.32	0.55
3:VH:52:ASN:OD1	3:VH:62:ARG:NH1	2.40	0.55
4:VI:33:ASP:OD1	4:VI:34:GLY:N	2.39	0.55
3:VJ:309:ARG:H	3:VJ:372:THR:HG1	1.52	0.55
3:WD:197:ASP:OD1	3:WD:198:GLU:N	2.40	0.55
4:WE:127:ASP:HB2	35:XJ:110:PHE:HZ	1.72	0.55
4:WG:34:GLY:HA2	4:WG:86:LEU:HD11	1.89	0.55
4:WK:68:VAL:HG12	4:WK:93:ILE:HB	1.88	0.55
3:WL:328:GLU:OE1	3:WL:332:ASN:ND2	2.40	0.55
34:XC:20:LYS:HG3	34:XC:23:GLN:OE1	2.07	0.55
34:XC:170:ARG:NH2	34:XC:176:GLU:OE2	2.40	0.55
35:XL:84:ILE:HD11	35:XL:121:HIS:HB2	1.89	0.55
35:XL:130:ILE:HD13	35:XL:169:ALA:HB1	1.88	0.55
37:YB:128:ASP:HA	37:YB:131:ARG:HB2	1.89	0.55
37:YC:125:LEU:HD13	37:YC:134:TYR:HB3	1.89	0.55
37:YD:4:VAL:HG13	37:YD:79:LEU:HG	1.89	0.55
37:YN:99:LYS:NZ	37:YN:148:MET:SD	2.80	0.55
2:A2:336:ARG:CZ	2:A3:59:VAL:HA	2.37	0.55
2:A3:231:GLN:HA	2:A3:234:ASN:ND2	2.21	0.55
2:A3:388:VAL:HG23	2:A3:389:LEU:HG	1.89	0.55
3:AB:240:LEU:HA	3:AB:248:ALA:HB1	1.88	0.55
4:AC:83:TYR:HB3	4:AC:86:LEU:HD12	1.89	0.55
4:AI:274:PRO:HG3	4:AI:374:ALA:HA	1.88	0.55
4:AK:5:ILE:HD13	4:AK:64:ARG:HB3	1.88	0.55
4:AK:392:ASP:OD1	4:AK:393:HIS:N	2.40	0.55
3:AL:372:THR:HG21	3:AL:426:GLN:HG3	1.88	0.55
5:B1:411:PHE:HA	10:E4:56:ARG:HH22	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B9:279:LEU:HB2	5:B9:380:LYS:HZ3	1.72	0.55
3:BB:5:VAL:HG23	3:BB:130:LEU:HD11	1.89	0.55
3:BB:292:GLN:O	3:BB:298:ASN:ND2	2.36	0.55
3:BB:412:GLU:OE1	3:BB:416:ASN:ND2	2.38	0.55
3:BD:12:CYS:SG	3:BD:13:GLY:N	2.80	0.55
4:BE:115:VAL:HA	4:BE:118:VAL:HG22	1.89	0.55
4:BG:236:SER:O	4:BG:243:ARG:NH2	2.38	0.55
3:BL:88:ASP:OD1	3:BL:89:ASN:N	2.40	0.55
7:C7:174:LEU:O	7:C7:178:LYS:HG2	2.07	0.55
3:CB:67:ASP:OD2	3:CB:72:THR:OG1	2.25	0.55
3:CB:316:VAL:HG22	3:CB:352:ALA:HB3	1.89	0.55
4:CC:33:ASP:OD1	4:CC:34:GLY:N	2.40	0.55
4:CC:105:ARG:O	4:CC:109:THR:OG1	2.20	0.55
3:CD:375:GLN:HA	3:CD:378:PHE:CZ	2.42	0.55
3:CF:269:GLY:O	3:CF:367:PHE:N	2.30	0.55
3:CH:45:GLU:HG3	3:CH:46:ARG:HG2	1.89	0.55
3:CH:209:ASP:OD2	3:CH:213:ARG:NH2	2.40	0.55
3:CH:309:ARG:HH22	3:CH:344:TRP:HZ3	1.54	0.55
3:CH:324:LYS:HE2	4:CI:222:PRO:HG2	1.88	0.55
3:CJ:32:PRO:O	3:CJ:83:GLN:NE2	2.33	0.55
4:CK:160:ASP:OD1	4:CK:161:TYR:N	2.40	0.55
4:CK:182:VAL:HA	4:CK:185:TYR:HD2	1.71	0.55
3:CL:276:ARG:HA	14:G6:297:GLN:HE22	1.72	0.55
3:CL:328:GLU:OE1	3:CL:332:ASN:ND2	2.36	0.55
4:CM:5:ILE:HD13	4:CM:64:ARG:HB3	1.87	0.55
4:CM:53:PHE:HB3	4:CM:61:HIS:HB3	1.87	0.55
7:Cc:112:SER:O	7:Cc:116:ASN:ND2	2.40	0.55
6:D:42:ARG:HG2	6:D:59:VAL:HG11	1.88	0.55
8:D8:419:LYS:HZ1	8:D9:56:TRP:HE1	1.52	0.55
4:DA:244:PHE:HB2	4:DA:356:ASN:HD21	1.72	0.55
3:DD:44:LEU:HD11	15:H3:290:PRO:HD3	1.89	0.55
4:DE:390:ARG:HA	4:DE:393:HIS:CD2	2.42	0.55
3:DF:12:CYS:HA	39:DF:501:GTP:HN22	1.73	0.55
4:DG:1:MET:SD	4:DG:2:ARG:N	2.80	0.55
4:DG:171:ILE:HD12	4:DG:204:VAL:HG13	1.88	0.55
4:DI:396:ASP:OD1	4:DI:397:LEU:N	2.40	0.55
4:DK:166:LYS:N	4:DK:199:ASP:OD2	2.40	0.55
4:DK:236:SER:O	4:DK:243:ARG:NH2	2.37	0.55
9:E:449:ALA:H	9:E:451:GLU:HG2	1.72	0.55
3:EF:4:ILE:HD11	3:EF:131:GLN:HB2	1.89	0.55
4:EG:178:SER:OG	4:EG:180:ALA:O	2.25	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EI:423:GLU:HA	4:EI:426:ALA:HB3	1.88	0.55
11:F1:244:ARG:O	11:F1:248:HIS:ND1	2.37	0.55
11:F7:159:GLU:HA	11:F7:162:ARG:HH21	1.72	0.55
4:FA:208:ALA:H	4:FA:304:LYS:NZ	2.05	0.55
3:FB:2:ARG:HB3	3:FB:131:GLN:NE2	2.22	0.55
4:FC:295:CYS:HB2	4:FC:377:MET:HE3	1.88	0.55
4:FE:1:MET:HE2	4:FE:2:ARG:H	1.72	0.55
4:FG:392:ASP:OD1	4:FG:393:HIS:N	2.39	0.55
3:FH:12:CYS:HB3	39:FH:501:GTP:C5'	2.37	0.55
4:FK:316:CYS:HB3	4:FK:378:LEU:HB2	1.88	0.55
3:FL:48:ASN:O	3:FL:62:ARG:NH2	2.32	0.55
11:Fk:208:HIS:CD2	11:Fk:213:LYS:HG3	2.41	0.55
12:G:72:HIS:O	12:G:76:ASP:N	2.30	0.55
13:G2:246:TYR:HB2	13:G2:346:ASP:HB3	1.87	0.55
14:G4:25:HIS:CE1	14:G4:35:LEU:HD11	2.42	0.55
14:G4:455:ALA:N	14:G4:464:SER:O	2.38	0.55
14:G4:640:TYR:HA	14:G4:643:VAL:HG12	1.89	0.55
14:G4:649:LYS:HZ3	14:G4:653:LEU:HD13	1.71	0.55
14:G5:285:PRO:HD2	14:G5:347:TRP:HE1	1.71	0.55
14:G5:526:ASP:O	14:G5:530:LEU:HG	2.07	0.55
14:G6:361:LYS:O	14:G6:365:ARG:HG3	2.08	0.55
4:GE:154:MET:HE1	4:GE:197:HIS:HB2	1.89	0.55
4:GG:172:TYR:HB2	4:GG:203:MET:HB2	1.89	0.55
3:GH:19:LYS:NZ	3:GH:223:GLY:O	2.40	0.55
4:GI:287:SER:OG	4:GI:290:GLU:OE1	2.20	0.55
4:GI:401:LYS:C	4:GI:402:ARG:HD3	2.31	0.55
3:GL:19:LYS:O	3:GL:22:GLU:HG3	2.07	0.55
3:GL:406:MET:O	3:GL:409:THR:OG1	2.21	0.55
4:HA:12:ALA:HB2	39:HA:501:GTP:H5"	1.88	0.55
4:HE:22:GLU:O	4:HE:26:LEU:HG	2.07	0.55
4:HE:89:PRO:HD2	4:IE:280:LYS:HZ3	1.71	0.55
4:HE:263:PRO:O	4:HE:264:ARG:HD3	2.07	0.55
4:HI:433:GLU:O	4:HI:437:VAL:N	2.38	0.55
3:HJ:2:ARG:HA	3:HJ:129:CYS:O	2.06	0.55
3:HJ:11:GLN:HG3	39:HJ:501:GTP:PA	2.47	0.55
4:IA:115:VAL:HA	4:IA:118:VAL:HG22	1.88	0.55
4:IE:223:THR:OG1	4:IE:225:THR:OG1	2.15	0.55
3:IJ:101:TRP:CE3	3:IJ:187:LEU:HD13	2.42	0.55
4:IK:324:VAL:HG21	3:IL:219:THR:HG22	1.88	0.55
4:IM:398:MET:HA	4:IM:401:LYS:HE3	1.89	0.55
4:JA:33:ASP:OD1	4:JA:34:GLY:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:JA:390:ARG:HA	4:JA:393:HIS:CE1	2.42	0.55
4:JA:401:LYS:C	4:JA:402:ARG:HD3	2.31	0.55
39:JH:501:GTP:O3G	39:JH:501:GTP:O3'	2.23	0.55
3:JL:292:GLN:O	3:JL:298:ASN:ND2	2.38	0.55
21:K2:162:ASP:OD1	31:R1:282:HIS:NE2	2.40	0.55
21:K2:488:THR:C	21:K2:490:ALA:H	2.11	0.55
4:KC:1:MET:SD	4:KC:2:ARG:N	2.80	0.55
4:KC:362:VAL:HA	4:KC:368:LEU:HD11	1.89	0.55
3:KD:306:ARG:O	3:KD:306:ARG:NE	2.38	0.55
4:KE:72:PRO:HA	4:KE:75:VAL:HG12	1.89	0.55
3:KJ:357:PRO:O	3:KJ:359:ARG:NH1	2.37	0.55
3:KL:83:GLN:O	3:KL:86:ARG:NH2	2.40	0.55
22:L1:190:ASP:HA	22:L1:193:ARG:NH1	2.21	0.55
4:LA:12:ALA:HB1	39:LA:501:GTP:C2	2.41	0.55
4:LA:271:THR:HA	4:LA:302:MET:HE1	1.89	0.55
4:LI:34:GLY:HA2	4:LI:86:LEU:HD21	1.88	0.55
3:LJ:174:LYS:HG3	3:LJ:175:VAL:HG12	1.89	0.55
3:LJ:292:GLN:O	3:LJ:298:ASN:ND2	2.38	0.55
3:LL:33:THR:O	3:LL:58:LYS:NZ	2.32	0.55
3:LL:132:GLY:HA3	3:LL:163:ILE:H	1.72	0.55
3:MB:117:LEU:HD11	3:MB:154:LYS:HD2	1.89	0.55
4:MC:268:PRO:HB2	4:MC:378:LEU:HD11	1.89	0.55
4:MC:401:LYS:C	4:MC:402:ARG:HD3	2.31	0.55
3:MD:375:GLN:HA	3:MD:378:PHE:CZ	2.42	0.55
4:ME:427:ALA:HA	4:ME:430:LYS:HG2	1.89	0.55
4:MI:46:ASP:OD1	4:MI:50:ASN:ND2	2.39	0.55
4:MK:419:SER:HA	4:MK:422:ARG:HE	1.72	0.55
4:MM:6:SER:HA	4:MM:136:LEU:HB2	1.89	0.55
4:NA:91:GLN:HG3	4:NA:121:ARG:HH21	1.71	0.55
4:NA:371:VAL:HG11	4:NA:374:ALA:HB2	1.87	0.55
4:NC:88:HIS:HB3	4:NC:91:GLN:HB2	1.89	0.55
3:ND:350:LYS:HE3	4:NE:181:VAL:H	1.72	0.55
4:NG:206:ASN:HA	4:NG:209:ILE:HD12	1.89	0.55
3:NH:11:GLN:HE21	39:NH:501:GTP:H3'	1.72	0.55
27:O:22:ASP:OD1	27:O:23:LEU:N	2.39	0.55
4:OC:84:ARG:HH22	37:YD:124:HIS:C	2.15	0.55
4:OC:396:ASP:OD1	4:OC:397:LEU:N	2.40	0.55
4:OE:9:VAL:HG23	4:OE:149:PHE:HD2	1.71	0.55
4:OG:287:SER:OG	4:OG:290:GLU:OE1	2.24	0.55
4:OG:388:TRP:HB3	4:OG:425:LEU:HD11	1.88	0.55
3:OL:132:GLY:HA3	3:OL:163:ILE:H	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:PA:287:SER:OG	4:PA:290:GLU:OE1	2.24	0.55
3:PF:14:ASN:ND2	3:PF:67:ASP:OD2	2.40	0.55
4:PG:214:ARG:NH1	4:PG:215:ARG:HG3	2.22	0.55
4:PI:1:MET:O	4:PI:131:GLY:HA3	2.07	0.55
4:PI:427:ALA:HA	4:PI:430:LYS:HG2	1.89	0.55
3:PL:398:TYR:HB3	3:PL:403:MET:HB2	1.89	0.55
3:QD:118:ASP:OD1	3:QD:121:ARG:NH1	2.40	0.55
4:QE:53:PHE:O	4:QE:64:ARG:NH1	2.40	0.55
4:QE:273:ALA:HB2	4:QE:295:CYS:HB3	1.89	0.55
3:QH:406:MET:O	3:QH:409:THR:OG1	2.20	0.55
3:QL:83:GLN:O	3:QL:86:ARG:NH2	2.40	0.55
4:QM:188:ILE:HG22	4:QM:421:ALA:HB1	1.88	0.55
3:RB:235:GLY:O	3:RB:238:THR:OG1	2.19	0.55
4:RC:351:PHE:O	4:RC:352:LYS:HD2	2.05	0.55
4:RK:180:ALA:HB1	4:RK:182:VAL:HG12	1.89	0.55
4:RK:425:LEU:O	4:RK:428:LEU:N	2.39	0.55
4:SC:185:TYR:HA	4:SC:395:PHE:HE1	1.71	0.55
4:SK:433:GLU:O	4:SK:437:VAL:N	2.28	0.55
3:TD:41:ASP:OD1	3:TD:42:LEU:N	2.40	0.55
4:TE:33:ASP:OD1	4:TE:34:GLY:N	2.40	0.55
4:TE:319:TYR:N	4:TE:354:GLY:O	2.36	0.55
4:TI:5:ILE:HD13	4:TI:64:ARG:HB3	1.89	0.55
4:TK:30:ILE:HG13	4:TK:53:PHE:HE2	1.72	0.55
4:TK:333:ALA:HA	4:TK:336:LYS:HD2	1.89	0.55
4:TM:33:ASP:OD1	4:TM:34:GLY:N	2.40	0.55
3:TN:132:GLY:HA3	3:TN:163:ILE:HG12	1.89	0.55
3:UB:324:LYS:HD2	4:UC:221:ARG:HA	1.89	0.55
3:UD:374:ILE:HA	3:UD:377:LEU:HD13	1.89	0.55
3:UF:132:GLY:HA3	3:UF:163:ILE:H	1.72	0.55
3:UL:32:PRO:O	3:UL:83:GLN:NE2	2.37	0.55
3:VB:47:ILE:HG13	3:VB:51:TYR:HB2	1.89	0.55
3:VD:60:VAL:HG23	3:VD:86:ARG:HH11	1.72	0.55
3:VH:262:ARG:NH2	3:VH:425:TYR:OH	2.36	0.55
3:VH:374:ILE:HA	3:VH:377:LEU:HD13	1.90	0.55
4:WC:168:GLU:HB2	4:WC:201:ALA:HA	1.89	0.55
4:WC:273:ALA:HB2	4:WC:295:CYS:HB3	1.88	0.55
4:WC:371:VAL:HG11	4:WC:374:ALA:HB2	1.88	0.55
3:WF:258:VAL:HB	4:WG:407:TRP:HZ2	1.71	0.55
3:WH:378:PHE:CD1	3:WH:419:VAL:HG22	2.42	0.55
3:WJ:12:CYS:HA	39:WJ:501:GTP:N2	2.21	0.55
3:WJ:372:THR:HB	3:WJ:375:GLN:HE22	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:WL:120:VAL:O	3:WL:124:ALA:N	2.38	0.55
34:XA:1:MET:HE2	34:XA:67:LYS:HD3	1.89	0.55
34:XC:71:ILE:HG21	34:XC:167:PHE:CD2	2.42	0.55
35:XL:206:GLY:HA2	35:XL:209:ILE:HD12	1.89	0.55
37:YQ:146:ASP:O	37:YQ:149:LYS:HG2	2.07	0.55
37:YW:15:TYR:HA	37:YW:18:PHE:HB3	1.88	0.55
37:YW:80:CYS:HA	37:YW:83:PHE:CD2	2.41	0.55
2:A2:295:ASN:ND2	2:A3:38:VAL:HA	2.22	0.54
4:AC:331:ALA:O	4:AC:334:THR:OG1	2.24	0.54
3:AD:3:GLU:HG2	3:AD:130:LEU:HD23	1.89	0.54
4:AG:22:GLU:O	4:AG:26:LEU:HG	2.06	0.54
4:AG:220:GLU:O	4:AG:221:ARG:NE	2.39	0.54
4:AK:154:MET:HE1	4:AK:197:HIS:HB2	1.89	0.54
4:AM:192:HIS:HA	4:AM:195:LEU:HD23	1.89	0.54
1:B:302:LEU:HD13	1:B:305:GLN:HE22	1.71	0.54
5:B3:78:LEU:HD13	5:B3:179:LYS:HZ2	1.71	0.54
5:B6:275:PHE:O	5:B6:279:LEU:HG	2.07	0.54
4:BC:154:MET:HE1	4:BC:197:HIS:HB2	1.89	0.54
3:BD:402:GLY:C	3:BD:403:MET:HE2	2.32	0.54
4:BE:75:VAL:HA	4:BE:78:VAL:HG22	1.89	0.54
3:BF:306:ARG:O	3:BF:306:ARG:NE	2.38	0.54
3:BH:28:HIS:CD2	3:BH:47:ILE:HD13	2.42	0.54
3:BH:285:THR:O	3:BH:288:GLU:HG3	2.07	0.54
7:C3:357:ALA:HA	7:C3:360:LYS:NZ	2.22	0.54
7:C4:155:PHE:O	7:C4:158:SER:OG	2.25	0.54
7:C6:116:ASN:HD21	10:E1:148:GLU:HA	1.71	0.54
7:C9:405:ARG:HH11	7:Cc:457:HIS:CE1	2.25	0.54
3:CB:415:MET:O	3:CB:419:VAL:HG23	2.06	0.54
4:CE:287:SER:OG	4:CE:290:GLU:OE1	2.24	0.54
4:CG:392:ASP:OD1	4:CG:393:HIS:N	2.40	0.54
3:CJ:357:PRO:HB3	3:CJ:362:LYS:HA	1.89	0.54
4:CM:192:HIS:HA	4:CM:195:LEU:HD23	1.89	0.54
4:CM:433:GLU:O	4:CM:437:VAL:N	2.31	0.54
7:Cb:383:LYS:HA	7:Cb:386:ILE:HD12	1.89	0.54
7:Cd:260:ASP:OD1	7:Cd:261:LYS:N	2.40	0.54
8:D3:332:GLN:O	8:D3:336:ILE:HG13	2.07	0.54
8:D8:136:LEU:HB3	8:D8:140:ARG:HH12	1.71	0.54
8:D8:263:ASP:HA	8:D8:266:LEU:HD12	1.89	0.54
3:DB:282:ARG:NH2	3:DB:292:GLN:OE1	2.30	0.54
3:DD:48:ASN:HD21	15:H3:288:PHE:HB3	1.71	0.54
4:DE:21:TRP:HD1	4:DE:53:PHE:HE1	1.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DG:53:PHE:O	4:DG:64:ARG:NH1	2.40	0.54
4:DG:105:ARG:O	4:DG:109:THR:OG1	2.21	0.54
3:EB:4:ILE:HD11	3:EB:131:GLN:HB2	1.87	0.54
4:EG:1:MET:O	4:EG:131:GLY:HA3	2.07	0.54
4:EG:208:ALA:H	4:EG:304:LYS:NZ	2.05	0.54
3:EH:36:TYR:HE1	3:EH:38:GLY:HA2	1.72	0.54
3:EH:235:GLY:O	3:EH:238:THR:OG1	2.22	0.54
3:EJ:324:LYS:HE2	4:EK:222:PRO:HD2	1.89	0.54
4:EK:213:CYS:O	4:EK:219:ILE:N	2.33	0.54
9:F:274:PHE:CE1	4:II:359:PRO:HD2	2.43	0.54
11:F1:428:GLN:O	11:F1:431:LYS:HG3	2.07	0.54
11:F6:396:LEU:O	11:F6:400:THR:HG23	2.06	0.54
4:FA:3:GLU:N	4:FA:133:GLN:OE1	2.40	0.54
4:FA:319:TYR:N	4:FA:354:GLY:O	2.39	0.54
4:FC:216:ASN:HD21	4:FC:275:VAL:HG23	1.72	0.54
3:FD:305:PRO:HB2	3:FD:310:TYR:HE1	1.72	0.54
3:FF:114:ASP:OD1	3:FF:115:SER:N	2.39	0.54
4:FK:388:TRP:HB3	4:FK:425:LEU:HD11	1.89	0.54
3:FL:272:PRO:HA	3:FL:292:GLN:OE1	2.07	0.54
11:Fi:231:LYS:HA	11:Fi:234:LYS:HD2	1.89	0.54
11:Fj:171:ASP:O	11:Fj:175:ARG:NE	2.37	0.54
12:G:406:GLN:HA	12:G:409:LEU:HD12	1.89	0.54
12:G:445:GLU:HG3	12:G:448:ARG:HH21	1.71	0.54
13:G2:422:TYR:H	13:G2:440:PHE:HB2	1.72	0.54
14:G4:633:GLU:HB3	14:G4:699:TRP:CZ2	2.41	0.54
14:G4:726:SER:OG	14:G4:727:PRO:HD2	2.06	0.54
14:G5:77:GLN:HB3	14:G5:108:LEU:HD12	1.88	0.54
3:GD:316:VAL:HG22	3:GD:352:ALA:HB3	1.88	0.54
3:GF:250:LEU:HD13	3:GF:253:LEU:HD12	1.89	0.54
3:GL:419:VAL:HG12	3:GL:423:GLN:HE22	1.72	0.54
12:H:446:GLU:CD	12:H:447:TYR:H	2.15	0.54
15:H1:311:GLU:HA	15:H1:315:ARG:HG3	1.88	0.54
15:H2:309:GLN:NE2	15:H2:310:LYS:HE3	2.22	0.54
15:H6:306:ARG:O	15:H6:310:LYS:HG2	2.06	0.54
4:HA:404:PHE:HA	4:HA:406:HIS:CE1	2.42	0.54
3:HB:295:ASP:HB2	3:HB:298:ASN:HB2	1.88	0.54
4:HC:67:PHE:HB2	4:HC:92:LEU:HD13	1.88	0.54
3:HF:318:ARG:HD3	3:HF:358:PRO:HG3	1.89	0.54
4:HG:264:ARG:O	4:HG:266:HIS:ND1	2.40	0.54
3:HH:378:PHE:HA	3:HH:381:ILE:HG12	1.89	0.54
16:I:96:MET:HG2	4:JC:82:THR:HG21	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IB:21:TRP:CZ2	3:IB:63:ALA:HB2	2.42	0.54
4:IE:237:SER:HB2	4:IE:318:LEU:HD11	1.89	0.54
3:IF:421:GLU:HA	3:IF:424:GLN:HG2	1.89	0.54
3:IJ:41:ASP:N	3:IJ:41:ASP:OD1	2.40	0.54
4:IK:70:LEU:HA	4:IK:95:GLY:HA3	1.89	0.54
4:IK:216:ASN:OD1	4:IK:217:LEU:N	2.40	0.54
4:IM:20:CYS:O	4:IM:24:TYR:N	2.38	0.54
4:IM:272:TYR:HD2	4:IM:275:VAL:HG13	1.73	0.54
4:JA:317:MET:HE1	4:JA:351:PHE:HB3	1.89	0.54
3:JB:2:ARG:HB3	3:JB:131:GLN:NE2	2.22	0.54
4:JE:223:THR:OG1	4:JE:225:THR:OG1	2.19	0.54
4:JG:51:THR:HG23	4:JG:52:PHE:CD2	2.42	0.54
4:JI:88:HIS:CE1	4:JI:121:ARG:HH22	2.24	0.54
3:JJ:182:PRO:HB2	3:JJ:388:MET:HE1	1.89	0.54
3:JJ:324:LYS:HE2	4:JK:222:PRO:CD	2.37	0.54
4:JK:144:GLY:N	39:JK:501:GTP:O2B	2.40	0.54
4:JK:331:ALA:O	4:JK:334:THR:OG1	2.24	0.54
4:KC:316:CYS:HB3	4:KC:378:LEU:HB3	1.89	0.54
3:KD:11:GLN:HE21	39:KD:501:GTP:H3'	1.71	0.54
3:KF:372:THR:HB	3:KF:375:GLN:HE22	1.72	0.54
4:KG:316:CYS:N	4:KG:378:LEU:O	2.29	0.54
4:KI:6:SER:HA	4:KI:136:LEU:HB2	1.88	0.54
4:KI:402:ARG:HG3	31:R2:128:VAL:HG11	1.88	0.54
3:KJ:11:GLN:HE21	39:KJ:501:GTP:H3'	1.72	0.54
3:KJ:166:THR:OG1	3:KJ:198:GLU:O	2.23	0.54
4:LE:171:ILE:HD12	4:LE:204:VAL:HG13	1.90	0.54
4:LG:51:THR:HG23	4:LG:52:PHE:CD2	2.42	0.54
4:LG:115:VAL:HA	4:LG:118:VAL:HG12	1.89	0.54
4:LG:273:ALA:N	4:LG:377:MET:HE1	2.22	0.54
4:LK:67:PHE:O	4:LK:93:ILE:N	2.40	0.54
3:LL:375:GLN:HA	3:LL:378:PHE:CE1	2.41	0.54
3:MB:139:LEU:N	3:MB:168:SER:OG	2.40	0.54
3:MD:133:PHE:HD2	3:MD:164:MET:HE1	1.71	0.54
4:MG:428:LEU:O	4:MG:432:TYR:N	2.40	0.54
3:MJ:384:GLN:O	3:MJ:388:MET:HG2	2.07	0.54
4:MM:321:GLY:N	4:MM:356:ASN:O	2.29	0.54
3:NF:302:ALA:HB1	3:NF:377:LEU:HD11	1.89	0.54
4:NK:105:ARG:O	4:NK:109:THR:OG1	2.21	0.54
4:OC:1:MET:SD	4:OC:2:ARG:N	2.80	0.54
3:OF:99:ASN:OD1	3:OF:142:GLY:HA3	2.07	0.54
3:OL:39:ASP:OD1	3:OL:43:GLN:NE2	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:P1:254:SER:OG	29:P1:293:ILE:O	2.19	0.54
29:P1:314:ILE:HB	29:P1:328:ALA:HB3	1.89	0.54
29:P2:131:GLY:O	29:P2:135:GLY:N	2.37	0.54
29:P2:551:MET:HG2	29:P2:562:THR:HG22	1.88	0.54
29:P3:338:ILE:HG22	29:P3:350:THR:HG22	1.89	0.54
4:PA:172:TYR:N	4:PA:204:VAL:O	2.33	0.54
3:PB:37:HIS:HA	37:YC:64:ARG:NH1	2.22	0.54
4:PE:272:TYR:CZ	4:PE:274:PRO:HG2	2.42	0.54
4:PI:33:ASP:OD1	4:PI:34:GLY:N	2.39	0.54
30:Q2:1500:SER:C	30:Q2:1501:LEU:HD12	2.32	0.54
3:QD:12:CYS:SG	39:QD:501:GTP:H5'	2.47	0.54
3:QJ:285:THR:O	3:QJ:288:GLU:HG3	2.07	0.54
4:QK:272:TYR:CZ	4:QK:274:PRO:HG2	2.42	0.54
3:QL:46:ARG:HG2	3:QL:241:ARG:HA	1.89	0.54
31:R3:123:MET:HA	31:R3:147:ILE:HD12	1.89	0.54
3:RB:141:GLY:HA3	39:RB:501:GTP:H5"	1.89	0.54
3:RB:176:SER:O	3:RB:178:THR:N	2.40	0.54
4:RC:207:GLU:HB2	4:RC:304:LYS:HZ1	1.73	0.54
4:RC:208:ALA:N	4:RC:304:LYS:HZ1	2.04	0.54
4:RE:91:GLN:HG3	4:RE:121:ARG:HH21	1.72	0.54
4:RE:316:CYS:N	4:RE:378:LEU:O	2.40	0.54
4:RG:34:GLY:HA2	4:RG:86:LEU:HD21	1.89	0.54
4:RG:401:LYS:C	4:RG:402:ARG:HD3	2.32	0.54
3:RJ:375:GLN:HA	3:RJ:378:PHE:CZ	2.42	0.54
3:RJ:378:PHE:CD1	3:RJ:419:VAL:HG22	2.41	0.54
3:SD:28:HIS:ND1	3:SD:43:GLN:HB2	2.21	0.54
4:SE:34:GLY:HA2	4:SE:86:LEU:HD21	1.89	0.54
4:SI:180:ALA:HB1	4:SI:182:VAL:HG12	1.89	0.54
4:SK:33:ASP:OD1	4:SK:34:GLY:N	2.40	0.54
4:SK:115:VAL:HA	4:SK:118:VAL:HG22	1.90	0.54
3:TB:11:GLN:HE21	39:TB:501:GTP:H3'	1.72	0.54
3:TD:187:LEU:HD21	3:TD:408:PHE:HE1	1.69	0.54
4:TE:88:HIS:CE1	4:TE:121:ARG:HH22	2.24	0.54
4:TE:317:MET:N	4:TE:317:MET:SD	2.80	0.54
4:TI:135:PHE:HD2	4:TI:166:LYS:HG3	1.72	0.54
4:TI:278:ALA:O	4:TI:370:LYS:NZ	2.40	0.54
3:TJ:7:LEU:HD13	3:TJ:64:VAL:HB	1.89	0.54
4:TK:214:ARG:NH1	4:TK:215:ARG:HG3	2.21	0.54
3:TL:385:PHE:HZ	3:TL:408:PHE:HB3	1.70	0.54
33:U:502:ARG:NH1	33:U:506:GLU:OE2	2.39	0.54
3:UB:211:CYS:HA	3:UB:215:LEU:HB2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UC:102:ASN:ND2	4:UC:411:GLU:OE2	2.37	0.54
4:UC:427:ALA:HA	4:UC:430:LYS:HG2	1.88	0.54
3:UD:328:GLU:OE1	3:UD:332:ASN:ND2	2.40	0.54
4:UE:89:PRO:HD2	4:VE:280:LYS:HZ3	1.71	0.54
4:UE:425:LEU:O	4:UE:428:LEU:N	2.41	0.54
3:UH:46:ARG:HH22	4:UI:73:THR:HA	1.71	0.54
4:UK:12:ALA:HB1	39:UK:501:GTP:C2	2.42	0.54
3:VB:285:THR:O	3:VB:288:GLU:HG3	2.08	0.54
3:VB:299:MET:HE1	3:VB:305:PRO:HD2	1.89	0.54
4:VC:34:GLY:HA2	4:VC:86:LEU:HD21	1.88	0.54
4:VC:392:ASP:OD1	4:VC:393:HIS:N	2.40	0.54
3:VF:7:LEU:HD13	3:VF:64:VAL:HB	1.88	0.54
3:VF:344:TRP:HH2	4:VG:403:ALA:HB2	1.73	0.54
4:VG:88:HIS:CE1	4:VG:121:ARG:HH22	2.25	0.54
3:VJ:132:GLY:HA3	3:VJ:163:ILE:H	1.72	0.54
3:VJ:170:VAL:N	3:VJ:202:ILE:O	2.30	0.54
3:VL:111:GLU:HG2	3:VL:112:LEU:HD12	1.88	0.54
4:WE:287:SER:OG	4:WE:290:GLU:OE1	2.24	0.54
4:WI:262:TYR:HE1	3:WJ:393:ALA:HA	1.73	0.54
4:WK:51:THR:HG23	4:WK:52:PHE:CD2	2.43	0.54
34:XD:109:GLN:HB2	34:XD:122:PRO:HA	1.88	0.54
37:YC:41:ARG:NH2	37:YC:44:SER:OG	2.40	0.54
37:YJ:41:ARG:HH12	37:YJ:45:SER:H	1.56	0.54
37:YK:27:ALA:O	37:YK:31:HIS:ND1	2.40	0.54
1:A:258:LYS:HA	1:A:261:GLU:HG2	1.89	0.54
2:A2:159:GLU:O	2:A2:162:ARG:HB3	2.06	0.54
2:A2:253:LEU:HB3	2:A2:400:ARG:NH2	2.22	0.54
2:A2:353:GLU:OE2	2:A2:357:GLN:NE2	2.40	0.54
4:AC:220:GLU:O	4:AC:221:ARG:NE	2.39	0.54
3:AD:20:PHE:CD1	3:AD:233:MET:HG3	2.43	0.54
3:AD:235:GLY:O	3:AD:238:THR:OG1	2.23	0.54
4:AE:2:ARG:HA	4:AE:133:GLN:HE22	1.72	0.54
3:AH:182:PRO:HB2	3:AH:388:MET:HE1	1.89	0.54
4:AK:280:LYS:NZ	4:MK:89:PRO:HD2	2.23	0.54
3:AL:4:ILE:HD11	3:AL:131:GLN:HB2	1.89	0.54
5:B2:134:GLU:O	5:B2:138:LEU:HG	2.06	0.54
5:B3:129:VAL:N	5:B4:11:ARG:HE	2.06	0.54
5:B7:39:ARG:HB3	5:B7:40:GLN:NE2	2.22	0.54
3:BB:299:MET:SD	3:BB:301:ALA:N	2.73	0.54
3:BF:11:GLN:HG3	39:BF:501:GTP:PA	2.47	0.54
4:BI:316:CYS:N	4:BI:378:LEU:O	2.32	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BJ:269:GLY:N	3:BJ:367:PHE:O	2.39	0.54
4:BK:295:CYS:HB2	4:BK:377:MET:HG2	1.89	0.54
4:BM:113:GLU:OE1	4:BM:113:GLU:N	2.38	0.54
6:C:172:ILE:HG23	6:C:177:VAL:HG21	1.89	0.54
7:C3:170:GLU:HB2	7:C3:315:ARG:HD3	1.89	0.54
7:C7:283:TYR:CE1	7:C8:394:LYS:HD3	2.42	0.54
7:C7:389:LYS:NZ	7:C7:430:THR:HG22	2.22	0.54
3:CB:271:ALA:HB3	3:CB:365:ALA:H	1.71	0.54
4:CC:210:TYR:OH	4:CC:221:ARG:NH2	2.40	0.54
3:CF:81:PHE:O	3:CF:84:ILE:HG22	2.07	0.54
4:CG:88:HIS:CE1	4:DE:280:LYS:HZ2	2.25	0.54
3:CJ:7:LEU:HB2	3:CJ:135:LEU:HG	1.89	0.54
4:CK:144:GLY:N	39:CK:501:GTP:O2B	2.40	0.54
3:CL:324:LYS:HD2	4:CM:221:ARG:HD2	1.89	0.54
7:Cd:264:ALA:HA	7:Cd:267:ILE:HD12	1.89	0.54
7:Cd:322:ARG:O	7:Cd:325:THR:OG1	2.25	0.54
6:D:119:PRO:HB3	6:D:175:GLY:HA3	1.88	0.54
8:D6:394:LYS:HE3	8:D7:84:LEU:HD21	1.87	0.54
8:D8:354:GLN:NE2	8:D9:241:TYR:O	2.40	0.54
8:D8:402:LEU:HA	8:D8:405:LEU:HD12	1.88	0.54
8:D9:214:ASN:OD1	8:D9:215:TRP:N	2.40	0.54
3:DB:268:PRO:HD2	3:DB:301:ALA:HB2	1.90	0.54
3:DB:295:ASP:HB2	3:DB:298:ASN:HB2	1.90	0.54
3:DB:304:ASP:O	3:DB:307:HIS:ND1	2.41	0.54
4:DC:144:GLY:N	39:DC:501:GTP:O2B	2.38	0.54
3:DF:412:GLU:OE1	3:DF:416:ASN:ND2	2.39	0.54
4:DI:51:THR:HG23	4:DI:52:PHE:HD2	1.72	0.54
4:DI:205:ASP:OD2	4:DI:304:LYS:NZ	2.36	0.54
4:DI:216:ASN:HB2	4:DI:276:ILE:HD12	1.89	0.54
10:E3:52:THR:OG1	10:E3:53:PRO:HD3	2.07	0.54
3:ED:234:SER:O	3:ED:238:THR:HG23	2.07	0.54
3:ED:357:PRO:HB3	3:ED:362:LYS:HA	1.89	0.54
3:EH:78:SER:HB2	13:G2:467:LEU:HA	1.90	0.54
3:EJ:77:ARG:HD3	3:EJ:90:PHE:CE2	2.42	0.54
4:EK:140:SER:HA	4:EK:170:ALA:HB1	1.88	0.54
3:EL:269:GLY:N	3:EL:367:PHE:O	2.40	0.54
11:F5:140:ARG:HH22	11:Fa:147:SER:HB3	1.72	0.54
11:F7:352:ASP:O	11:F7:356:LYS:HG2	2.07	0.54
3:FB:139:LEU:HD21	3:FB:170:VAL:HG22	1.89	0.54
3:FD:163:ILE:HD13	3:FD:250:LEU:HB2	1.90	0.54
4:FE:146:GLY:N	39:FE:501:GTP:O2B	2.29	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FG:216:ASN:ND2	4:FG:275:VAL:O	2.40	0.54
3:FJ:250:LEU:HD13	3:FJ:253:LEU:HD12	1.89	0.54
13:G3:352:ARG:HH12	13:G3:356:LYS:HB3	1.72	0.54
14:G5:361:LYS:O	14:G5:365:ARG:HG3	2.07	0.54
14:G5:467:GLU:HB2	14:G5:480:PHE:CE2	2.43	0.54
3:GB:158:GLU:HG3	3:GB:159:TYR:CD2	2.42	0.54
3:GD:88:ASP:OD1	3:GD:89:ASN:N	2.40	0.54
4:GE:22:GLU:O	4:GE:26:LEU:HG	2.07	0.54
4:GG:329:ASN:OD1	4:GG:330:ALA:N	2.40	0.54
3:GH:214:THR:HG21	3:GH:273:LEU:HB3	1.88	0.54
3:GJ:376:GLU:HA	3:GJ:379:LYS:HE3	1.89	0.54
15:H3:283:PRO:HA	15:H3:300:PHE:CE2	2.42	0.54
3:HB:330:MET:HE3	3:HB:351:THR:HG21	1.88	0.54
3:HB:389:PHE:CZ	3:HB:405:GLU:HB2	2.42	0.54
4:HE:396:ASP:OD1	4:HE:397:LEU:N	2.40	0.54
3:HF:97:ALA:C	3:HF:99:ASN:H	2.16	0.54
3:HH:13:GLY:HA2	3:HH:16:ILE:HB	1.89	0.54
3:HH:378:PHE:CD1	3:HH:419:VAL:HG22	2.41	0.54
4:HI:392:ASP:OD1	4:HI:393:HIS:N	2.40	0.54
3:HJ:282:ARG:NH2	3:HJ:292:GLN:OE1	2.32	0.54
4:HK:89:PRO:HD2	4:IK:280:LYS:NZ	2.22	0.54
3:IB:350:LYS:HE3	4:IC:180:ALA:HA	1.88	0.54
3:IB:376:GLU:OE1	3:IB:376:GLU:N	2.26	0.54
4:IG:214:ARG:NH1	4:IG:215:ARG:HG3	2.21	0.54
4:IG:245:ASP:O	4:IG:356:ASN:ND2	2.40	0.54
3:IJ:347:ASN:HD21	4:IK:178:SER:H	1.54	0.54
3:IJ:372:THR:HB	3:IJ:375:GLN:HE22	1.72	0.54
4:IK:144:GLY:N	39:IK:501:GTP:O2B	2.40	0.54
4:IM:223:THR:HG1	4:IM:225:THR:HG1	1.54	0.54
19:J1:153:ILE:HD13	19:J1:167:MET:HE2	1.88	0.54
4:JC:264:ARG:O	4:JC:266:HIS:ND1	2.39	0.54
4:JC:333:ALA:HA	4:JC:336:LYS:HD2	1.89	0.54
3:JF:117:LEU:HD11	3:JF:154:LYS:HD2	1.88	0.54
4:JI:2:ARG:HA	4:JI:133:GLN:HE22	1.72	0.54
3:JJ:228:LEU:HD23	32:T:301:LEU:HD11	1.88	0.54
3:JL:52:ASN:ND2	3:JL:62:ARG:HD3	2.22	0.54
4:KC:167:LEU:HB3	4:KC:169:PHE:CE1	2.42	0.54
3:KD:28:HIS:ND1	3:KD:43:GLN:HB2	2.22	0.54
4:KE:316:CYS:N	4:KE:378:LEU:O	2.29	0.54
3:KF:28:HIS:O	3:KF:43:GLN:NE2	2.40	0.54
20:L:15:TRP:HA	20:L:18:ASP:HB2	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:L:87:MET:HE3	20:L:247:MET:HE1	1.89	0.54
22:L3:111:ALA:O	22:L3:115:MET:HG3	2.06	0.54
4:LC:108:TYR:O	4:LC:112:LYS:NZ	2.38	0.54
3:LD:2:ARG:HB3	3:LD:131:GLN:NE2	2.22	0.54
4:LG:226:ASN:ND2	4:LG:367:ASP:OD2	2.40	0.54
3:LH:12:CYS:HA	39:LH:501:GTP:HN22	1.72	0.54
4:LI:16:ILE:HG22	4:LI:228:ASN:OD1	2.06	0.54
3:LJ:318:ARG:HD3	3:LJ:358:PRO:HG3	1.89	0.54
4:LK:264:ARG:O	4:LK:266:HIS:ND1	2.39	0.54
24:M2:73:GLN:HA	24:M2:76:ALA:HB3	1.89	0.54
3:MB:197:ASP:OD1	3:MB:198:GLU:N	2.40	0.54
4:MC:104:ALA:HA	4:MC:107:HIS:HB3	1.89	0.54
4:MC:214:ARG:NH1	4:MC:215:ARG:HG3	2.23	0.54
3:MD:412:GLU:OE1	3:MD:416:ASN:ND2	2.40	0.54
3:MH:309:ARG:HE	3:MH:426:GLN:HE21	1.54	0.54
4:MI:1:MET:N	4:MI:130:THR:OG1	2.41	0.54
4:MK:66:VAL:HG22	4:MK:91:GLN:HG2	1.89	0.54
4:MK:278:ALA:O	4:MK:370:LYS:NZ	2.35	0.54
3:ML:375:GLN:HA	3:ML:378:PHE:CZ	2.42	0.54
4:MM:370:LYS:NZ	27:P:40:ASP:HA	2.22	0.54
3:ND:309:ARG:O	3:ND:371:SER:OG	2.22	0.54
3:NH:218:THR:OG1	3:NH:219:THR:N	2.41	0.54
3:NJ:2:ARG:HA	3:NJ:129:CYS:O	2.07	0.54
3:NJ:289:LEU:HD21	3:NJ:363:MET:HB3	1.90	0.54
3:NL:132:GLY:HA2	3:NL:162:ARG:HB3	1.89	0.54
3:NL:246:LEU:HB2	3:NL:352:ALA:HB1	1.88	0.54
28:O2:59:SER:HB2	28:O2:60:PRO:HD3	1.88	0.54
4:OA:401:LYS:C	4:OA:402:ARG:HD3	2.33	0.54
3:OB:322:SER:N	3:OB:325:GLU:OE2	2.40	0.54
4:OE:295:CYS:HB2	4:OE:377:MET:HE3	1.88	0.54
4:OE:392:ASP:OD1	4:OE:393:HIS:N	2.40	0.54
3:OF:252:LYS:O	3:OF:256:ASN:ND2	2.40	0.54
4:OG:67:PHE:O	4:OG:93:ILE:N	2.41	0.54
3:OL:300:MET:N	3:OL:300:MET:SD	2.80	0.54
4:PA:9:VAL:HG13	4:PA:139:HIS:HB3	1.89	0.54
3:PB:176:SER:O	3:PB:178:THR:N	2.40	0.54
3:PB:317:PHE:O	3:PB:354:CYS:N	2.31	0.54
3:PB:324:LYS:NZ	4:PC:222:PRO:O	2.34	0.54
3:PH:173:PRO:O	3:PH:380:ARG:NH2	2.40	0.54
3:PH:174:LYS:HG3	3:PH:175:VAL:HG12	1.90	0.54
3:PH:392:LYS:HB2	3:PH:395:LEU:HD13	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PJ:32:PRO:O	3:PJ:83:GLN:NE2	2.36	0.54
3:PJ:100:ASN:HB3	3:PJ:103:LYS:HB2	1.88	0.54
4:PM:6:SER:HA	4:PM:136:LEU:HB2	1.88	0.54
4:QC:122:ILE:O	4:QC:126:ALA:N	2.39	0.54
3:QD:173:PRO:O	3:QD:380:ARG:NH2	2.41	0.54
4:QE:1:MET:N	4:QE:130:THR:OG1	2.40	0.54
4:QE:2:ARG:HA	4:QE:133:GLN:HE22	1.72	0.54
3:QH:218:THR:OG1	3:QH:219:THR:N	2.40	0.54
4:RC:188:ILE:HG22	4:RC:421:ALA:HB1	1.88	0.54
4:RE:214:ARG:NH1	4:RE:215:ARG:HG3	2.23	0.54
3:RF:347:ASN:HB3	4:RG:178:SER:HB3	1.89	0.54
4:RG:392:ASP:OD1	4:RG:393:HIS:N	2.39	0.54
3:RH:132:GLY:HA2	3:RH:162:ARG:HB3	1.87	0.54
3:RJ:28:HIS:ND1	3:RJ:43:GLN:HB2	2.22	0.54
3:RJ:419:VAL:O	3:RJ:423:GLN:NE2	2.41	0.54
3:RL:117:LEU:HD11	3:RL:154:LYS:HD2	1.88	0.54
4:SE:203:MET:N	4:SE:203:MET:SD	2.81	0.54
3:SF:357:PRO:HB3	3:SF:362:LYS:HA	1.89	0.54
3:SH:52:ASN:OD1	3:SH:62:ARG:NH1	2.39	0.54
4:SI:12:ALA:HB2	39:SI:501:GTP:H5"	1.90	0.54
3:SJ:84:ILE:O	3:SJ:86:ARG:NH1	2.41	0.54
4:SK:173:PRO:HB2	4:SK:390:ARG:HH22	1.72	0.54
4:SK:265:ILE:HD12	4:SK:432:TYR:CE1	2.43	0.54
4:SM:392:ASP:OD1	4:SM:393:HIS:N	2.40	0.54
32:T:340:MET:HE2	32:T:344:HIS:CE1	2.36	0.54
3:TB:322:SER:N	3:TB:325:GLU:OE2	2.37	0.54
3:TB:398:TYR:HB3	3:TB:403:MET:HB2	1.89	0.54
4:TC:9:VAL:HA	4:TC:68:VAL:HG23	1.89	0.54
3:TD:2:ARG:HA	3:TD:129:CYS:O	2.07	0.54
4:TG:392:ASP:OD1	4:TG:393:HIS:N	2.40	0.54
4:TK:25:CYS:HB2	4:TK:30:ILE:HB	1.89	0.54
4:UE:244:PHE:HB2	4:UE:356:ASN:HD21	1.71	0.54
4:UE:392:ASP:OD1	4:UE:393:HIS:N	2.40	0.54
3:UH:111:GLU:HG2	3:UH:112:LEU:HD12	1.90	0.54
3:UL:250:LEU:HD13	3:UL:253:LEU:HD12	1.89	0.54
3:VB:28:HIS:ND1	3:VB:43:GLN:HB2	2.23	0.54
4:VC:263:PRO:HD3	3:VD:396:HIS:CD2	2.42	0.54
4:VG:269:LEU:N	4:VG:379:SER:O	2.32	0.54
3:VH:2:ARG:HB3	3:VH:131:GLN:NE2	2.22	0.54
33:W:237:ARG:HA	33:W:240:LEU:HG	1.90	0.54
4:WC:214:ARG:NH1	4:WC:215:ARG:HG3	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WC:346:TRP:HE1	3:WD:391:ARG:HH11	1.55	0.54
3:WD:118:ASP:OD1	3:WD:121:ARG:NH1	2.40	0.54
3:WD:141:GLY:HA3	39:WD:501:GTP:H5"	1.89	0.54
4:WE:392:ASP:OD1	4:WE:393:HIS:N	2.40	0.54
4:WE:433:GLU:O	4:WE:437:VAL:N	2.36	0.54
3:WF:32:PRO:O	3:WF:83:GLN:NE2	2.38	0.54
4:WG:188:ILE:HG22	4:WG:421:ALA:HB1	1.89	0.54
3:WJ:28:HIS:ND1	3:WJ:43:GLN:HB2	2.22	0.54
35:XL:144:ARG:O	35:XL:144:ARG:NH1	2.41	0.54
37:YB:68:MET:O	37:YB:72:ILE:N	2.37	0.54
37:YN:129:GLU:HB3	37:YN:134:TYR:HE2	1.72	0.54
36:Z:348:GLU:HA	36:Z:351:ALA:HB3	1.88	0.54
2:A3:71:ARG:O	2:A3:74:LYS:HG3	2.06	0.54
3:AB:84:ILE:O	3:AB:86:ARG:NH1	2.40	0.54
4:AC:46:ASP:OD1	4:AC:50:ASN:ND2	2.38	0.54
4:AC:281:ALA:HB3	4:AC:370:LYS:HZ1	1.72	0.54
4:AE:256:GLN:O	4:AE:260:VAL:HG12	2.07	0.54
4:AI:51:THR:HG23	4:AI:52:PHE:CD2	2.43	0.54
3:AJ:214:THR:HG23	3:AJ:215:LEU:HD12	1.89	0.54
4:AK:171:ILE:HD12	4:AK:204:VAL:HG23	1.89	0.54
5:B1:102:ASN:O	5:B1:106:LYS:HG2	2.06	0.54
5:B7:307:LYS:HD2	5:B7:349:ILE:HD13	1.89	0.54
4:BE:113:GLU:OE1	4:BE:113:GLU:N	2.38	0.54
3:BF:359:ARG:HH21	15:H3:4:THR:HB	1.72	0.54
4:BG:269:LEU:N	4:BG:379:SER:O	2.30	0.54
4:BI:256:GLN:O	4:BI:260:VAL:HG12	2.07	0.54
4:BK:51:THR:HG23	4:BK:52:PHE:CD2	2.43	0.54
4:BK:140:SER:HB2	4:BK:171:ILE:HG22	1.89	0.54
7:C3:339:GLN:HA	7:C3:342:LYS:HE2	1.89	0.54
7:C4:375:ILE:O	7:C4:379:ILE:HG12	2.06	0.54
3:CB:379:LYS:O	3:CB:382:SER:OG	2.17	0.54
3:CF:72:THR:O	3:CF:75:SER:OG	2.22	0.54
3:CF:375:GLN:HA	3:CF:378:PHE:CZ	2.42	0.54
4:CI:216:ASN:HB2	4:CI:276:ILE:HD12	1.90	0.54
3:CJ:39:ASP:OD1	3:CJ:43:GLN:NE2	2.40	0.54
3:CL:216:LYS:NZ	14:G6:306:VAL:HG22	2.22	0.54
4:CM:1:MET:O	4:CM:131:GLY:HA3	2.07	0.54
4:CM:188:ILE:HG12	4:CM:425:LEU:HD11	1.88	0.54
4:CM:401:LYS:C	4:CM:402:ARG:HD3	2.32	0.54
6:D:347:ALA:HA	6:D:361:ARG:HG3	1.88	0.54
8:D7:329:ILE:O	8:D7:332:GLN:HB3	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:D8:182:LEU:O	8:D8:186:ILE:HG12	2.06	0.54
8:D9:54:ASP:HA	8:D9:57:PHE:HD2	1.72	0.54
8:D9:371:ASP:HB2	8:Da:106:ARG:CZ	2.37	0.54
3:DB:350:LYS:HE3	4:DC:180:ALA:HA	1.89	0.54
4:DC:50:ASN:O	4:DC:64:ARG:NH1	2.41	0.54
4:DC:108:TYR:O	4:DC:112:LYS:NZ	2.33	0.54
4:DE:185:TYR:HA	4:DE:395:PHE:HE2	1.72	0.54
4:DI:51:THR:HG23	4:DI:52:PHE:CD2	2.42	0.54
4:DI:88:HIS:CE1	4:DI:121:ARG:HH22	2.25	0.54
3:DJ:380:ARG:O	3:DJ:384:GLN:HG2	2.08	0.54
9:E:405:THR:O	4:HA:57:GLY:HA3	2.07	0.54
4:EA:218:ASP:HB2	15:H1:299:THR:OG1	2.08	0.54
4:EE:401:LYS:C	4:EE:402:ARG:HD3	2.31	0.54
4:EI:120:ASP:OD1	4:EI:123:ARG:NH1	2.40	0.54
11:F3:407:LEU:HB3	11:F4:289:THR:HA	1.89	0.54
11:F6:428:GLN:O	11:F6:431:LYS:HG2	2.07	0.54
11:F7:129:GLN:HA	11:F7:132:HIS:CD2	2.42	0.54
11:F7:340:ASN:O	11:F7:473:ARG:NH2	2.40	0.54
4:FC:171:ILE:HD12	4:FC:204:VAL:HG13	1.88	0.54
3:FD:384:GLN:O	3:FD:388:MET:HG2	2.07	0.54
3:FF:249:ASP:O	3:FF:252:LYS:HB2	2.07	0.54
3:FH:182:PRO:HA	3:FH:381:ILE:HD11	1.88	0.54
11:Fk:236:ILE:HA	11:Fk:239:GLN:HB3	1.88	0.54
11:Fk:416:LEU:O	11:Fk:419:GLU:HG2	2.07	0.54
13:G1:353:GLN:HA	13:G1:356:LYS:HD3	1.89	0.54
13:G1:422:TYR:H	13:G1:440:PHE:HB2	1.73	0.54
14:G5:438:GLY:HA3	14:G5:522:LEU:HA	1.89	0.54
14:G6:562:ILE:HG23	14:G6:566:PHE:CD2	2.42	0.54
14:G6:709:ALA:C	14:G6:711:PRO:HD3	2.33	0.54
4:GA:272:TYR:HE1	4:GA:374:ALA:HB1	1.73	0.54
3:GB:379:LYS:O	3:GB:382:SER:OG	2.14	0.54
3:GB:420:SER:O	3:GB:424:GLN:N	2.28	0.54
3:GD:11:GLN:HG3	39:GD:501:GTP:PA	2.46	0.54
3:GD:302:ALA:HB1	3:GD:377:LEU:HD21	1.89	0.54
4:GE:21:TRP:CD1	4:GE:53:PHE:HE1	2.25	0.54
3:GF:132:GLY:HA2	3:GF:162:ARG:HB3	1.89	0.54
3:GH:52:ASN:OD1	3:GH:62:ARG:NH1	2.40	0.54
4:GI:208:ALA:N	4:GI:304:LYS:HZ1	2.04	0.54
15:H1:227:ARG:NH1	15:H1:230:TRP:HB2	2.23	0.54
3:HB:375:GLN:HA	3:HB:378:PHE:CZ	2.42	0.54
4:HI:273:ALA:N	4:HI:377:MET:HE1	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HK:51:THR:HG23	4:HK:52:PHE:CD2	2.42	0.54
3:IF:49:VAL:HG13	3:IF:50:TYR:CD1	2.43	0.54
4:II:51:THR:HG23	4:II:52:PHE:CD2	2.42	0.54
3:IJ:214:THR:HG23	3:IJ:215:LEU:HD12	1.89	0.54
19:J3:180:GLU:HA	19:J3:183:ALA:HB3	1.89	0.54
4:JC:287:SER:N	4:JC:290:GLU:OE2	2.39	0.54
4:JG:172:TYR:HB2	4:JG:203:MET:HB2	1.88	0.54
3:JH:357:PRO:HB3	3:JH:362:LYS:O	2.08	0.54
4:JI:89:PRO:HD3	4:KI:283:HIS:CE1	2.42	0.54
3:JJ:172:SER:OG	3:JJ:205:GLU:OE2	2.16	0.54
4:JK:262:TYR:OH	3:JL:391:ARG:O	2.24	0.54
21:K2:271:PRO:HB2	21:K2:276:GLN:NE2	2.22	0.54
4:KC:119:LEU:HD23	4:KC:122:ILE:HD11	1.89	0.54
4:KC:145:THR:HB	4:KC:149:PHE:CE2	2.42	0.54
4:KG:51:THR:HG23	4:KG:52:PHE:CD2	2.42	0.54
4:KK:269:LEU:HD11	4:KK:384:ILE:HG21	1.88	0.54
3:KL:269:GLY:N	3:KL:367:PHE:O	2.40	0.54
22:L1:32:ARG:HH21	22:L1:36:LYS:HG2	1.71	0.54
22:L3:129:ARG:NE	4:LK:90:GLU:HA	2.22	0.54
3:LB:324:LYS:HD3	4:LC:210:TYR:HE1	1.72	0.54
4:LC:30:ILE:HA	4:LC:36:MET:HE1	1.89	0.54
3:LD:176:SER:O	3:LD:178:THR:N	2.40	0.54
4:LE:50:ASN:O	4:LE:64:ARG:NH1	2.41	0.54
4:LE:427:ALA:HA	4:LE:430:LYS:HG2	1.89	0.54
3:LF:269:GLY:N	3:LF:367:PHE:O	2.40	0.54
4:LG:264:ARG:O	4:LG:266:HIS:ND1	2.35	0.54
4:MC:271:THR:HB	4:MC:377:MET:HB3	1.89	0.54
3:MD:295:ASP:HB2	3:MD:298:ASN:HB2	1.89	0.54
4:MI:51:THR:HG23	4:MI:52:PHE:CD2	2.41	0.54
4:MI:172:TYR:N	4:MI:204:VAL:O	2.38	0.54
4:NA:244:PHE:HB2	4:NA:356:ASN:HD21	1.71	0.54
4:NC:392:ASP:OD1	4:NC:393:HIS:N	2.41	0.54
4:NE:32:PRO:O	4:NE:85:GLN:NE2	2.40	0.54
4:NE:33:ASP:OD1	4:NE:34:GLY:N	2.39	0.54
4:NG:22:GLU:O	4:NG:26:LEU:HD23	2.07	0.54
4:NG:54:SER:N	4:NG:62:VAL:O	2.40	0.54
4:NG:287:SER:OG	4:NG:290:GLU:OE1	2.25	0.54
3:NL:357:PRO:HB3	3:NL:362:LYS:HA	1.89	0.54
4:OA:12:ALA:HB2	39:OA:501:GTP:H5"	1.89	0.54
3:OB:11:GLN:HE21	39:OB:501:GTP:H3'	1.71	0.54
3:OB:292:GLN:O	3:OB:298:ASN:ND2	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:OC:206:ASN:HA	4:OC:209:ILE:HD12	1.90	0.54
3:OH:32:PRO:O	3:OH:83:GLN:NE2	2.35	0.54
3:OJ:28:HIS:ND1	3:OJ:43:GLN:HB2	2.21	0.54
3:OL:174:LYS:HG3	3:OL:175:VAL:HG12	1.89	0.54
29:P1:335:VAL:HG23	29:P1:609:GLY:HA2	1.89	0.54
4:PC:273:ALA:N	4:PC:377:MET:HE1	2.22	0.54
4:PG:144:GLY:HA3	39:PG:501:GTP:O3G	2.06	0.54
4:PK:411:GLU:OE2	4:PK:413:MET:HE1	2.07	0.54
4:PM:2:ARG:HA	4:PM:133:GLN:NE2	2.22	0.54
30:Q1:1401:GLN:OE1	30:Q1:1406:LEU:HB2	2.08	0.54
3:QB:176:SER:O	3:QB:178:THR:N	2.40	0.54
3:QB:234:SER:O	3:QB:238:THR:HG23	2.07	0.54
4:QC:89:PRO:HD2	4:RC:280:LYS:HZ3	1.71	0.54
4:QE:66:VAL:HG22	4:QE:91:GLN:HB2	1.88	0.54
4:QE:256:GLN:O	4:QE:260:VAL:HG12	2.07	0.54
4:QE:265:ILE:HD12	4:QE:432:TYR:CE1	2.42	0.54
3:QF:16:ILE:HD13	3:QF:226:ASN:ND2	2.22	0.54
4:QI:9:VAL:HA	4:QI:68:VAL:HG23	1.89	0.54
4:QM:28:HIS:HB2	4:QM:30:ILE:HG12	1.90	0.54
4:RC:34:GLY:HA2	4:RC:86:LEU:HD21	1.88	0.54
4:RC:172:TYR:HB2	4:RC:203:MET:HB3	1.90	0.54
3:RF:316:VAL:HG22	3:RF:352:ALA:HB3	1.89	0.54
4:RK:5:ILE:HD13	4:RK:64:ARG:HB3	1.90	0.54
4:RK:161:TYR:O	4:RK:166:LYS:NZ	2.40	0.54
3:SB:34:GLY:HA3	3:SB:58:LYS:HZ2	1.73	0.54
3:SF:163:ILE:HG21	3:SF:250:LEU:HD23	1.88	0.54
4:SI:103:TYR:HB2	4:SI:186:ASN:HB2	1.89	0.54
4:SI:192:HIS:HA	4:SI:195:LEU:HD23	1.88	0.54
3:SL:104:GLY:HA2	3:SL:108:GLU:HB2	1.89	0.54
3:SL:215:LEU:O	3:SL:276:ARG:NH1	2.22	0.54
3:SL:217:LEU:HD11	3:SL:220:PRO:HB3	1.89	0.54
3:TD:324:LYS:HE2	4:TE:222:PRO:HG2	1.88	0.54
4:TG:122:ILE:HG21	4:TG:157:LEU:HD11	1.89	0.54
3:UB:267:MET:O	3:UB:369:GLY:N	2.33	0.54
3:UD:286:VAL:HG21	3:UD:325:GLU:HG3	1.89	0.54
3:UH:317:PHE:O	3:UH:354:CYS:N	2.34	0.54
3:UL:117:LEU:HD11	3:UL:154:LYS:HD2	1.89	0.54
4:VE:76:ASP:OD1	4:VE:79:ARG:NH1	2.38	0.54
3:VF:269:GLY:N	3:VF:367:PHE:O	2.40	0.54
4:VG:68:VAL:HG12	4:VG:93:ILE:HB	1.89	0.54
4:VI:205:ASP:OD2	4:VI:304:LYS:NZ	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VJ:324:LYS:HD2	4:VK:221:ARG:HA	1.89	0.54
4:WA:262:TYR:OH	3:WB:391:ARG:O	2.25	0.54
3:WF:13:GLY:HA2	3:WF:16:ILE:HB	1.88	0.54
3:WH:60:VAL:HG23	3:WH:86:ARG:HH11	1.72	0.54
4:WI:392:ASP:OD1	4:WI:393:HIS:N	2.40	0.54
3:WL:101:TRP:HB2	3:WL:184:ASN:HD22	1.72	0.54
3:WL:250:LEU:O	3:WL:254:ALA:N	2.33	0.54
34:XB:16:SER:OG	34:XB:163:ARG:NH1	2.39	0.54
34:XD:20:LYS:O	34:XD:23:GLN:NE2	2.30	0.54
34:XF:71:ILE:HG22	34:XF:73:LEU:H	1.73	0.54
35:XH:83:GLU:HG3	35:XH:86:LYS:HG2	1.90	0.54
35:XK:58:LYS:O	35:XK:62:ARG:HG3	2.07	0.54
37:YB:26:ILE:HA	37:YB:29:LEU:HB3	1.88	0.54
37:YG:50:GLN:O	37:YG:53:MET:HG3	2.08	0.54
37:YP:155:SER:HA	37:YP:158:LEU:HG	1.89	0.54
2:A1:252:ASP:OD1	2:A1:255:ARG:NH2	2.41	0.54
2:A2:179:PHE:HA	2:A2:182:ILE:HD12	1.89	0.54
3:AF:117:LEU:HD11	3:AF:154:LYS:HD2	1.89	0.54
4:AI:280:LYS:NZ	4:MI:89:PRO:HD2	2.23	0.54
4:AK:207:GLU:HB2	4:AK:304:LYS:NZ	2.22	0.54
4:AK:433:GLU:O	4:AK:437:VAL:N	2.38	0.54
5:B1:355:LYS:NZ	5:B2:41:GLU:HG3	2.23	0.54
5:B2:7:LYS:NZ	8:D5:325:THR:O	2.40	0.54
5:B7:140:GLU:HB2	5:B7:257:GLN:HG2	1.87	0.54
5:B8:160:GLN:O	5:B8:164:LEU:HG	2.07	0.54
5:B9:305:ARG:HA	5:B9:308:MET:HG2	1.89	0.54
5:B9:357:ALA:O	5:B9:361:ASN:ND2	2.40	0.54
3:BB:269:GLY:N	3:BB:367:PHE:O	2.40	0.54
3:BF:83:GLN:O	3:BF:86:ARG:NH2	2.40	0.54
3:BF:379:LYS:O	3:BF:382:SER:OG	2.19	0.54
4:BG:220:GLU:O	4:BG:221:ARG:NE	2.40	0.54
7:C4:471:GLU:HA	7:C4:474:MET:HG3	1.90	0.54
7:C7:275:ARG:NH1	7:C7:276:ASN:O	2.40	0.54
4:CE:67:PHE:O	4:CE:93:ILE:N	2.40	0.54
4:CG:89:PRO:HD2	4:DE:280:LYS:HZ3	1.73	0.54
4:CG:115:VAL:HA	4:CG:118:VAL:HG22	1.90	0.54
4:CI:208:ALA:H	4:CI:304:LYS:NZ	2.04	0.54
4:CI:321:GLY:HA3	4:CI:372:GLN:O	2.06	0.54
4:CI:390:ARG:HA	4:CI:393:HIS:CD2	2.42	0.54
3:CL:372:THR:HB	3:CL:375:GLN:HE22	1.73	0.54
7:Cb:309:LEU:HD23	7:Cb:312:GLN:NE2	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Cd:98:ASP:OD1	7:Cd:102:SER:OG	2.26	0.54
8:D2:91:LEU:HA	8:D2:94:ARG:HH21	1.73	0.54
8:D3:112:CYS:O	8:D3:115:SER:OG	2.25	0.54
8:D7:102:LYS:O	8:D7:105:GLU:HG2	2.07	0.54
8:D7:214:ASN:OD1	8:D7:215:TRP:N	2.40	0.54
8:D8:176:LEU:O	8:D8:179:GLU:HG2	2.07	0.54
8:D9:376:ARG:HD2	8:Da:102:LYS:HD3	1.90	0.54
4:DA:320:ARG:HD3	4:DA:360:PRO:HG3	1.88	0.54
4:DC:115:VAL:HG21	4:DC:156:ARG:HD3	1.89	0.54
3:DD:380:ARG:O	3:DD:384:GLN:HG2	2.07	0.54
3:DF:269:GLY:N	3:DF:367:PHE:O	2.40	0.54
4:DG:422:ARG:O	4:DG:426:ALA:N	2.27	0.54
10:E4:63:TRP:CD1	10:E4:63:TRP:H	2.25	0.54
3:EB:278:SER:HA	3:EB:281:TYR:HB2	1.88	0.54
3:EH:415:MET:O	3:EH:419:VAL:HG23	2.06	0.54
3:EJ:285:THR:O	3:EJ:288:GLU:HG3	2.08	0.54
4:EK:337:THR:O	4:EK:339:ARG:NH1	2.40	0.54
11:F2:106:ALA:O	11:F2:110:ARG:HG3	2.08	0.54
11:F3:208:HIS:HB3	11:F4:89:ARG:NE	2.22	0.54
11:F4:89:ARG:HG2	11:F4:90:TYR:O	2.07	0.54
4:FE:214:ARG:NH1	4:FE:215:ARG:HG3	2.23	0.54
4:FE:271:THR:O	4:FE:377:MET:N	2.29	0.54
3:FJ:139:LEU:HD21	3:FJ:170:VAL:HG22	1.90	0.54
11:Fb:411:VAL:HG23	11:Fb:412:PRO:HD2	1.89	0.54
11:Ff:112:TRP:HD1	11:Ff:115:ARG:HE	1.56	0.54
11:Ff:366:GLN:HA	11:Ff:369:PHE:CE2	2.42	0.54
12:G:63:LYS:O	12:G:67:ILE:N	2.34	0.54
14:G4:245:ASP:O	14:G4:246:ARG:HD2	2.08	0.54
4:GA:233:GLN:OE1	4:GA:236:SER:OG	2.25	0.54
3:GD:70:PRO:HA	3:GD:73:MET:HE2	1.88	0.54
4:GE:1:MET:O	4:GE:131:GLY:HA3	2.07	0.54
4:GE:21:TRP:HD1	4:GE:53:PHE:HE1	1.54	0.54
3:GF:11:GLN:HE21	39:GF:501:GTP:H3'	1.71	0.54
3:GH:81:PHE:O	3:GH:84:ILE:HG22	2.07	0.54
3:GJ:48:ASN:O	3:GJ:62:ARG:NH2	2.35	0.54
3:GJ:268:PRO:HD2	3:GJ:301:ALA:HB2	1.89	0.54
15:H3:281:LEU:HD23	15:H3:282:ILE:H	1.73	0.54
3:HB:46:ARG:HH12	4:HC:73:THR:HG23	1.73	0.54
3:HF:322:SER:N	3:HF:325:GLU:OE2	2.38	0.54
4:HG:388:TRP:HB3	4:HG:425:LEU:HD11	1.88	0.54
3:HH:28:HIS:ND1	3:HH:43:GLN:HB2	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HI:210:TYR:OH	4:HI:221:ARG:NH2	2.40	0.54
3:HJ:152:ILE:HA	3:HJ:155:ILE:HG12	1.90	0.54
4:HK:203:MET:N	4:HK:203:MET:SD	2.81	0.54
3:HL:130:LEU:HB2	3:HL:162:ARG:HH11	1.72	0.54
4:IA:423:GLU:HA	4:IA:426:ALA:HB3	1.89	0.54
3:IB:80:PRO:O	3:IB:83:GLN:NE2	2.31	0.54
3:ID:330:MET:SD	3:ID:349:VAL:HG21	2.47	0.54
4:IE:391:LEU:HB3	4:IE:395:PHE:HE2	1.71	0.54
3:IF:2:ARG:HH21	4:IG:97:GLU:HA	1.72	0.54
3:IF:163:ILE:HG12	3:IF:250:LEU:HD23	1.88	0.54
3:IH:269:GLY:N	3:IH:367:PHE:O	2.41	0.54
3:IJ:406:MET:O	3:IJ:409:THR:OG1	2.21	0.54
4:IM:11:GLN:HG3	39:IM:501:GTP:O1B	2.07	0.54
4:JA:214:ARG:NH1	4:JA:215:ARG:HG3	2.21	0.54
3:JB:211:CYS:HA	3:JB:215:LEU:HB2	1.88	0.54
4:JC:220:GLU:O	4:JC:221:ARG:NE	2.38	0.54
3:JF:141:GLY:HA3	39:JF:501:GTP:H5"	1.89	0.54
3:JF:273:LEU:H	3:JF:292:GLN:HE22	1.54	0.54
4:JG:208:ALA:H	4:JG:304:LYS:NZ	2.03	0.54
3:JH:12:CYS:HA	39:JH:501:GTP:HN22	1.73	0.54
3:JH:46:ARG:HH12	4:JI:73:THR:HG23	1.71	0.54
4:JK:50:ASN:OD1	4:JK:51:THR:N	2.40	0.54
4:KA:30:ILE:HA	4:KA:36:MET:HE1	1.88	0.54
4:KC:192:HIS:HA	4:KC:195:LEU:HD23	1.89	0.54
4:KC:205:ASP:OD2	4:KC:304:LYS:NZ	2.33	0.54
4:KC:206:ASN:HA	4:KC:209:ILE:HD12	1.89	0.54
3:KD:150:LEU:O	3:KD:153:SER:OG	2.22	0.54
3:KF:58:LYS:HE2	3:LF:281:TYR:HE1	1.71	0.54
3:KF:380:ARG:O	3:KF:384:GLN:HG2	2.06	0.54
3:KH:209:ASP:O	3:KH:213:ARG:HG2	2.07	0.54
4:KI:285:GLN:HE22	4:KI:287:SER:HB3	1.72	0.54
4:KK:187:SER:O	4:KK:190:THR:OG1	2.22	0.54
4:KK:220:GLU:O	4:KK:221:ARG:NE	2.40	0.54
3:KL:175:VAL:HG22	3:KL:177:ASP:H	1.71	0.54
22:L3:24:HIS:HB3	4:MI:426:ALA:HB1	1.89	0.54
22:L3:124:ILE:HB	22:L3:133:LYS:NZ	2.21	0.54
4:LA:263:PRO:HD3	3:LB:396:HIS:HD2	1.72	0.54
4:LA:316:CYS:HB3	4:LA:378:LEU:HB2	1.89	0.54
4:LE:392:ASP:OD1	4:LE:393:HIS:N	2.41	0.54
3:LJ:12:CYS:HA	39:LJ:501:GTP:N2	2.22	0.54
3:LL:14:ASN:ND2	3:LL:67:ASP:OD2	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MB:131:GLN:HB3	3:MB:163:ILE:HD12	1.90	0.54
4:MC:244:PHE:CZ	4:MC:358:GLN:HG2	2.42	0.54
4:MC:333:ALA:HA	4:MC:336:LYS:HD2	1.90	0.54
4:ME:51:THR:HG23	4:ME:52:PHE:CD2	2.43	0.54
3:MJ:28:HIS:CD2	3:MJ:43:GLN:HB2	2.39	0.54
3:ML:77:ARG:O	3:ML:77:ARG:NH1	2.37	0.54
3:ML:322:SER:OG	3:ML:323:MET:SD	2.66	0.54
26:N1:142:GLN:HB3	4:WA:225:THR:HG21	1.89	0.54
4:NC:329:ASN:OD1	4:NC:330:ALA:N	2.40	0.54
3:ND:379:LYS:O	3:ND:382:SER:OG	2.17	0.54
3:NF:68:LEU:HD12	3:NF:97:ALA:HB2	1.88	0.54
3:NH:324:LYS:HD3	4:NI:210:TYR:CE1	2.43	0.54
4:NK:392:ASP:OD1	4:NK:393:HIS:N	2.40	0.54
28:O1:59:SER:HB2	28:O1:60:PRO:HD3	1.90	0.54
4:OA:388:TRP:HB3	4:OA:425:LEU:HD11	1.88	0.54
3:OB:386:THR:O	3:OB:390:ARG:HB2	2.08	0.54
4:OC:5:ILE:HD13	4:OC:64:ARG:HB3	1.90	0.54
4:OI:287:SER:OG	4:OI:290:GLU:OE1	2.24	0.54
3:OJ:295:ASP:HB2	3:OJ:298:ASN:HB2	1.89	0.54
27:P:96:ASP:O	27:P:99:GLN:NE2	2.40	0.54
29:P3:390:ILE:HG21	29:P3:432:ILE:HD13	1.88	0.54
4:PA:207:GLU:HB2	4:PA:304:LYS:NZ	2.23	0.54
3:PB:357:PRO:HB3	3:PB:362:LYS:HA	1.88	0.54
3:PD:28:HIS:O	3:PD:43:GLN:NE2	2.40	0.54
4:PI:32:PRO:O	4:PI:85:GLN:NE2	2.41	0.54
3:PJ:375:GLN:HA	3:PJ:378:PHE:CZ	2.42	0.54
4:QC:254:GLU:O	4:QC:258:ASN:ND2	2.31	0.54
4:QK:185:TYR:HA	4:QK:395:PHE:HE1	1.72	0.54
3:RB:3:GLU:HG2	3:RB:130:LEU:HD23	1.89	0.54
3:RB:392:LYS:HB2	3:RB:395:LEU:HD13	1.89	0.54
4:RC:269:LEU:N	4:RC:379:SER:O	2.36	0.54
4:RC:279:GLU:HB3	37:YB:128:ASP:HB2	1.90	0.54
3:RF:209:ASP:O	3:RF:213:ARG:HG2	2.08	0.54
3:RF:269:GLY:HA2	3:RF:300:MET:HE1	1.89	0.54
3:RH:114:ASP:OD1	3:RH:115:SER:N	2.40	0.54
4:RK:229:ARG:HE	4:RK:368:LEU:HD22	1.72	0.54
3:RL:28:HIS:ND1	3:RL:43:GLN:HB2	2.23	0.54
3:RL:166:THR:OG1	3:RL:198:GLU:O	2.24	0.54
3:RL:316:VAL:HG22	3:RL:352:ALA:HB3	1.89	0.54
4:RM:207:GLU:HB2	4:RM:304:LYS:NZ	2.22	0.54
3:SB:111:GLU:HG2	3:SB:112:LEU:HD12	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:SE:329:ASN:OD1	4:SE:330:ALA:N	2.41	0.54
4:SG:331:ALA:O	4:SG:334:THR:OG1	2.23	0.54
4:SK:208:ALA:N	4:SK:304:LYS:HZ1	2.05	0.54
4:TE:316:CYS:HB3	4:TE:378:LEU:HB3	1.89	0.54
3:TJ:327:ASP:HA	3:TJ:330:MET:HE2	1.90	0.54
3:TL:19:LYS:NZ	3:TL:223:GLY:O	2.39	0.54
3:TL:153:SER:HA	3:TL:156:ARG:HE	1.72	0.54
3:UB:47:ILE:HG21	3:UB:59:TYR:HE2	1.71	0.54
3:UD:250:LEU:O	3:UD:254:ALA:N	2.28	0.54
3:UF:306:ARG:HH22	3:UF:340:TYR:HE1	1.55	0.54
4:UK:91:GLN:HG3	4:UK:121:ARG:HH21	1.72	0.54
4:VC:271:THR:HA	4:VC:302:MET:HE1	1.90	0.54
3:VF:111:GLU:HG2	3:VF:112:LEU:HD12	1.89	0.54
3:VF:267:MET:O	3:VF:369:GLY:N	2.35	0.54
4:VG:125:LEU:HD13	4:VG:128:LEU:HD21	1.89	0.54
3:VH:170:VAL:N	3:VH:202:ILE:O	2.30	0.54
33:W:186:GLU:O	33:W:192:LYS:NZ	2.36	0.54
3:WF:2:ARG:HA	3:WF:129:CYS:O	2.07	0.54
3:WH:246:LEU:HB2	3:WH:352:ALA:HB1	1.89	0.54
3:WJ:344:TRP:O	4:WK:401:LYS:NZ	2.26	0.54
3:WL:47:ILE:HG13	3:WL:51:TYR:HB2	1.87	0.54
34:XF:59:ILE:HG22	34:XF:156:ILE:HB	1.89	0.54
34:XG:170:ARG:NH2	34:XG:176:GLU:OE2	2.41	0.54
35:XK:130:ILE:HD13	35:XK:169:ALA:HB1	1.88	0.54
37:YC:25:PHE:HD1	37:YC:65:ILE:HG13	1.73	0.54
37:YK:114:ARG:NH2	37:YK:133:HIS:O	2.39	0.54
37:YN:41:ARG:NH1	37:YN:44:SER:H	2.05	0.54
37:YO:41:ARG:NH1	37:YO:48:GLN:OE1	2.40	0.54
37:YV:82:HIS:NE2	37:YV:86:LEU:HD11	2.22	0.54
36:Z:223:GLU:HA	36:Z:226:ARG:HE	1.71	0.54
1:A:179:ARG:HD2	1:A:182:LYS:HE2	1.89	0.54
1:A:187:TYR:O	1:A:191:LEU:HD23	2.07	0.54
2:A2:61:LYS:HD2	5:B3:281:TRP:CE2	2.43	0.54
3:AB:309:ARG:HH22	3:AB:344:TRP:HZ3	1.55	0.54
4:AC:88:HIS:HB3	4:AC:91:GLN:HG3	1.89	0.54
4:AC:187:SER:O	4:AC:190:THR:OG1	2.20	0.54
3:AD:11:GLN:O	3:AD:15:GLN:NE2	2.40	0.54
3:AF:120:VAL:O	3:AF:124:ALA:N	2.37	0.54
3:AH:187:LEU:HD21	3:AH:408:PHE:HE1	1.72	0.54
4:AM:30:ILE:HG13	4:AM:53:PHE:HE2	1.73	0.54
4:AM:161:TYR:O	4:AM:166:LYS:NZ	2.35	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B2:20:ASN:O	5:B2:24:LEU:HG	2.07	0.54
5:B2:75:LYS:HZ3	5:B2:179:LYS:HG3	1.71	0.54
5:B3:164:LEU:O	5:B3:167:GLU:HG2	2.08	0.54
5:B4:202:LYS:HD2	5:B4:205:PRO:HA	1.88	0.54
5:B4:218:TRP:HA	5:B4:221:PHE:CE2	2.43	0.54
3:BF:111:GLU:HG2	3:BF:112:LEU:HD12	1.88	0.54
3:BF:139:LEU:HD21	3:BF:170:VAL:HG22	1.90	0.54
3:BH:5:VAL:HG23	3:BH:130:LEU:HD21	1.90	0.54
3:BH:372:THR:HG21	3:BH:426:GLN:HG3	1.89	0.54
4:BI:88:HIS:HA	4:CI:283:HIS:CE1	2.40	0.54
3:BJ:194:GLU:OE1	3:BJ:195:ASN:ND2	2.40	0.54
4:BK:113:GLU:OE1	4:BK:113:GLU:N	2.38	0.54
3:BL:54:ALA:O	15:H6:28:ARG:NH2	2.22	0.54
3:BL:250:LEU:O	3:BL:254:ALA:N	2.27	0.54
3:BL:318:ARG:HD3	3:BL:358:PRO:HG3	1.89	0.54
4:BM:286:LEU:HD11	4:BM:373:ARG:H	1.73	0.54
4:BM:331:ALA:O	4:BM:334:THR:OG1	2.23	0.54
7:C1:107:PHE:O	7:C1:111:ASN:ND2	2.41	0.54
7:C6:295:SER:HB3	7:C7:412:CYS:HA	1.89	0.54
7:C7:310:ARG:HG3	10:E2:50:LYS:NZ	2.22	0.54
7:C8:318:SER:O	7:C8:322:ARG:HG3	2.07	0.54
7:C8:442:GLU:HA	7:C8:445:LEU:HD12	1.88	0.54
7:C9:252:HIS:HD2	7:Cd:200:PHE:CD1	2.25	0.54
3:CB:46:ARG:HH12	4:CC:73:THR:HG23	1.73	0.54
3:CB:152:ILE:O	3:CB:156:ARG:HG2	2.08	0.54
3:CJ:268:PRO:HD2	3:CJ:301:ALA:HB2	1.90	0.54
4:CM:263:PRO:O	4:CM:264:ARG:HD3	2.07	0.54
8:D3:368:LEU:HB3	8:D3:370:ARG:HH12	1.72	0.54
8:D5:373:ALA:HA	8:D5:376:ARG:HG2	1.89	0.54
8:D8:54:ASP:OD1	8:D8:55:GLU:N	2.41	0.54
8:D9:291:GLU:O	8:D9:295:LEU:HG	2.07	0.54
4:DA:320:ARG:HG2	4:DA:358:GLN:O	2.07	0.54
3:DD:156:ARG:NH1	3:DD:195:ASN:O	2.40	0.54
3:DD:415:MET:O	3:DD:419:VAL:HG23	2.07	0.54
4:DE:33:ASP:OD1	4:DE:34:GLY:N	2.40	0.54
3:DF:11:GLN:HG3	39:DF:501:GTP:PA	2.47	0.54
3:DH:4:ILE:HD11	3:DH:131:GLN:HB2	1.88	0.54
3:DL:276:ARG:HD3	13:G3:286:ASP:N	2.22	0.54
3:EB:11:GLN:HE21	39:EB:501:GTP:H3'	1.71	0.54
3:EB:206:ALA:O	3:EB:210:ILE:HG12	2.08	0.54
3:EB:286:VAL:HG21	3:EB:325:GLU:HG3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EC:175:PRO:O	4:EC:390:ARG:NH1	2.41	0.54
3:EF:166:THR:OG1	3:EF:198:GLU:O	2.20	0.54
4:EG:279:GLU:HA	4:EG:282:TYR:HD2	1.72	0.54
3:EH:379:LYS:HA	3:EH:379:LYS:HE2	1.90	0.54
4:EI:311:LYS:NZ	4:EI:343:PHE:O	2.40	0.54
4:EI:326:LYS:HG3	3:EJ:220:PRO:HD2	1.88	0.54
3:EJ:130:LEU:HB2	3:EJ:162:ARG:NH1	2.22	0.54
4:EK:430:LYS:O	4:EK:433:GLU:HG3	2.08	0.54
4:FC:21:TRP:HA	4:FC:24:TYR:HB2	1.88	0.54
4:FC:139:HIS:HE1	4:FC:168:GLU:HB3	1.72	0.54
3:FD:187:LEU:HD21	3:FD:408:PHE:CE1	2.43	0.54
3:FD:372:THR:HB	3:FD:375:GLN:HE22	1.73	0.54
3:FF:217:LEU:HD11	3:FF:220:PRO:HB3	1.90	0.54
11:Fa:241:ARG:O	11:Fa:244:ARG:HG2	2.07	0.54
11:Fc:180:ALA:O	11:Fc:184:VAL:HG23	2.08	0.54
11:Fd:93:ARG:HB2	11:Fd:97:ARG:HH22	1.73	0.54
11:Fh:198:ARG:HE	11:Fh:201:ARG:NH2	2.01	0.54
11:Fj:257:LYS:HE2	11:Fj:296:TRP:CD1	2.39	0.54
11:Fm:193:GLU:HA	11:Fm:196:TYR:CD2	2.42	0.54
12:G:397:ARG:NH2	4:GC:372:GLN:HB3	2.20	0.54
13:G1:134:ILE:HG13	13:G1:147:LYS:HD2	1.89	0.54
14:G4:83:ALA:HB2	14:G4:167:ILE:HD13	1.89	0.54
14:G5:41:PRO:HB2	14:G5:45:GLY:HA2	1.89	0.54
14:G6:681:PHE:HD2	14:G6:693:PHE:HD1	1.56	0.54
4:GA:88:HIS:HB3	4:GA:91:GLN:HG2	1.90	0.54
3:GF:92:PHE:H	23:M:124:MET:HE2	1.71	0.54
3:GF:128:ASP:HB2	23:M:136:LYS:HD2	1.89	0.54
4:GG:96:LYS:HE3	23:M:139:VAL:HG12	1.90	0.54
3:GJ:28:HIS:O	3:GJ:43:GLN:NE2	2.40	0.54
3:HH:12:CYS:SG	3:HH:13:GLY:N	2.81	0.54
3:HH:217:LEU:HD11	3:HH:220:PRO:HB3	1.88	0.54
3:HJ:247:ASN:HB3	3:HJ:252:LYS:HG2	1.90	0.54
3:IB:167:PHE:HA	3:IB:200:TYR:HB2	1.88	0.54
4:IC:279:GLU:O	4:IC:283:HIS:HD2	1.90	0.54
3:IF:11:GLN:HG3	39:IF:501:GTP:PA	2.48	0.54
4:IG:262:TYR:OH	3:IH:391:ARG:O	2.26	0.54
3:IH:295:ASP:HB2	3:IH:298:ASN:HB2	1.90	0.54
4:II:181:VAL:HG23	4:II:404:PHE:HE2	1.72	0.54
4:JA:2:ARG:HA	4:JA:133:GLN:HE22	1.70	0.54
4:JA:32:PRO:O	4:JA:85:GLN:NE2	2.40	0.54
4:JA:287:SER:OG	4:JA:290:GLU:OE1	2.25	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JB:235:GLY:O	3:JB:238:THR:OG1	2.21	0.54
3:JB:324:LYS:HE2	4:JC:222:PRO:HG2	1.88	0.54
4:JI:12:ALA:HB1	39:JI:501:GTP:C2	2.41	0.54
3:JJ:54:ALA:HA	3:KJ:283:ALA:HB2	1.88	0.54
3:JL:375:GLN:HA	3:JL:378:PHE:CZ	2.42	0.54
21:K3:350:MET:HG2	21:K3:450:LYS:HE2	1.88	0.54
21:K3:371:MET:HE1	21:K3:375:ARG:HH22	1.71	0.54
4:KA:52:PHE:HZ	4:KA:239:THR:HB	1.72	0.54
4:KA:187:SER:O	4:KA:190:THR:OG1	2.24	0.54
4:KE:272:TYR:CZ	4:KE:274:PRO:HG2	2.42	0.54
4:KG:172:TYR:HB2	4:KG:203:MET:HB2	1.87	0.54
3:KH:48:ASN:O	3:KH:62:ARG:NH2	2.29	0.54
3:KJ:117:LEU:HD11	3:KJ:154:LYS:HD2	1.89	0.54
3:KJ:289:LEU:HD13	3:KJ:363:MET:HE2	1.90	0.54
3:KJ:380:ARG:O	3:KJ:384:GLN:HG2	2.08	0.54
4:KK:251:ASP:OD1	4:KK:252:LEU:N	2.40	0.54
3:KL:215:LEU:HB3	3:KL:217:LEU:HD22	1.89	0.54
22:L1:133:LYS:HZ1	4:LC:113:GLU:CD	2.16	0.54
22:L2:220:SER:HB2	22:L2:222:PRO:HD2	1.90	0.54
22:L4:35:ILE:HG12	4:MM:390:ARG:HH21	1.73	0.54
4:LA:49:PHE:O	4:LA:53:PHE:N	2.38	0.54
4:LA:278:ALA:HB3	27:Q:170:ARG:HH11	1.72	0.54
3:LB:31:ASP:N	3:LB:31:ASP:OD1	2.38	0.54
4:LC:1:MET:O	4:LC:131:GLY:HA3	2.08	0.54
3:LD:398:TYR:HB3	3:LD:403:MET:HB2	1.89	0.54
4:LE:401:LYS:C	4:LE:402:ARG:HD3	2.31	0.54
3:LF:46:ARG:HH12	4:LG:73:THR:HG23	1.71	0.54
4:LG:172:TYR:HB2	4:LG:203:MET:HB2	1.88	0.54
3:LJ:52:ASN:OD1	3:LJ:62:ARG:NH1	2.38	0.54
3:LJ:173:PRO:O	3:LJ:380:ARG:NH2	2.41	0.54
3:LJ:194:GLU:OE1	3:LJ:195:ASN:ND2	2.41	0.54
3:LJ:286:VAL:HG11	3:LJ:325:GLU:HG3	1.90	0.54
4:LK:285:GLN:HE22	4:LK:287:SER:HB3	1.73	0.54
4:MC:76:ASP:OD1	4:MC:79:ARG:NH1	2.40	0.54
3:MD:415:MET:O	3:MD:419:VAL:HG23	2.07	0.54
3:MF:392:LYS:HB2	3:MF:395:LEU:HD13	1.88	0.54
4:MI:81:GLY:O	4:MI:84:ARG:NH1	2.40	0.54
4:MK:144:GLY:N	39:MK:501:GTP:O2B	2.40	0.54
4:MK:288:VAL:O	4:MK:292:THR:OG1	2.21	0.54
3:ML:51:TYR:CD1	3:ML:61:PRO:HA	2.42	0.54
26:N3:162:ASP:HB3	4:VI:96:LYS:HZ1	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NF:375:GLN:HA	3:NF:378:PHE:CZ	2.43	0.54
4:NG:50:ASN:OD1	4:NG:51:THR:N	2.40	0.54
4:NI:32:PRO:O	4:NI:85:GLN:NE2	2.40	0.54
4:NI:224:TYR:HE2	39:NI:501:GTP:O6	1.90	0.54
3:NJ:28:HIS:ND1	3:NJ:43:GLN:HB2	2.23	0.54
3:NJ:277:GLY:O	3:NJ:281:TYR:HD1	1.91	0.54
4:NK:220:GLU:O	4:NK:221:ARG:NE	2.39	0.54
4:NK:256:GLN:O	4:NK:260:VAL:HG12	2.06	0.54
3:NL:218:THR:OG1	3:NL:219:THR:N	2.41	0.54
29:P2:378:HIS:NE2	29:P2:394:ASP:HB3	2.23	0.54
4:PA:263:PRO:O	4:PA:264:ARG:HD3	2.07	0.54
3:PD:31:ASP:OD2	3:PD:35:THR:OG1	2.24	0.54
4:PG:12:ALA:HB1	39:PG:501:GTP:C2	2.42	0.54
4:PG:49:PHE:O	4:PG:53:PHE:N	2.36	0.54
4:PG:206:ASN:HA	4:PG:209:ILE:HD12	1.88	0.54
4:PI:414:GLU:CD	4:PI:416:GLY:H	2.15	0.54
3:PJ:12:CYS:HB3	39:PJ:501:GTP:H5'	1.89	0.54
3:PJ:46:ARG:HH22	4:PK:73:THR:HA	1.72	0.54
3:PJ:317:PHE:O	3:PJ:354:CYS:N	2.35	0.54
3:PL:3:GLU:OE2	3:PL:127:CYS:HB2	2.07	0.54
4:PM:51:THR:HG23	4:PM:52:PHE:CD2	2.42	0.54
30:Q3:1473:ASP:HA	30:Q3:1476:LYS:HG2	1.90	0.54
39:QB:501:GTP:O3G	39:QB:501:GTP:O3'	2.23	0.54
4:QC:70:LEU:HA	4:QC:95:GLY:HA3	1.90	0.54
4:QE:127:ASP:OD1	4:QE:128:LEU:N	2.41	0.54
3:QF:11:GLN:HG3	39:QF:501:GTP:PA	2.47	0.54
3:QF:49:VAL:HG11	3:QF:241:ARG:HG2	1.89	0.54
3:QH:19:LYS:NZ	3:QH:223:GLY:O	2.40	0.54
3:QH:132:GLY:HA3	3:QH:163:ILE:H	1.72	0.54
3:QH:152:ILE:HA	3:QH:155:ILE:HG12	1.89	0.54
3:QJ:331:LEU:HD21	4:QK:177:VAL:HG22	1.89	0.54
4:QM:53:PHE:O	4:QM:64:ARG:NH1	2.40	0.54
27:R:328:GLN:HA	27:R:331:LEU:HD12	1.90	0.54
31:R2:256:ASP:OD1	31:R2:259:ARG:NH2	2.40	0.54
3:RD:385:PHE:HA	3:RD:388:MET:HE2	1.89	0.54
3:RF:33:THR:O	3:RF:58:LYS:NZ	2.40	0.54
3:RH:247:ASN:HB3	3:RH:252:LYS:HG3	1.89	0.54
3:RH:372:THR:HB	3:RH:375:GLN:HE22	1.72	0.54
4:RI:10:GLY:O	4:RI:14:VAL:HG13	2.07	0.54
4:RI:207:GLU:HB2	4:RI:304:LYS:NZ	2.23	0.54
4:RI:223:THR:OG1	4:RI:225:THR:OG1	2.20	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:SE:262:TYR:OH	3:SF:391:ARG:O	2.25	0.54
4:SI:224:TYR:CE1	39:SI:501:GTP:C5	2.93	0.54
4:SI:316:CYS:HB3	4:SI:378:LEU:HB2	1.90	0.54
4:SI:371:VAL:HG11	4:SI:374:ALA:HB2	1.90	0.54
4:SK:273:ALA:HB2	4:SK:295:CYS:HB3	1.89	0.54
3:TB:269:GLY:HA2	3:TB:300:MET:HE1	1.90	0.54
4:TC:427:ALA:HA	4:TC:430:LYS:HG2	1.88	0.54
4:TK:9:VAL:HG11	4:TK:150:ALA:HB2	1.90	0.54
3:TL:223:GLY:HA2	3:TL:226:ASN:OD1	2.08	0.54
4:TM:210:TYR:CE1	4:TM:227:LEU:HD11	2.42	0.54
3:UB:12:CYS:O	3:UB:16:ILE:N	2.34	0.54
3:UB:269:GLY:N	3:UB:367:PHE:O	2.41	0.54
3:UB:406:MET:O	3:UB:409:THR:OG1	2.21	0.54
3:UD:350:LYS:HE3	4:UE:180:ALA:HA	1.89	0.54
3:UH:314:ALA:HB3	3:UH:368:ILE:HG23	1.89	0.54
3:UJ:246:LEU:HB2	3:UJ:352:ALA:HB1	1.88	0.54
4:UK:206:ASN:HA	4:UK:209:ILE:HD12	1.88	0.54
4:UK:413:MET:SD	4:UK:413:MET:N	2.81	0.54
3:VD:324:LYS:HE2	4:VE:222:PRO:HG2	1.89	0.54
4:VE:208:ALA:H	4:VE:304:LYS:NZ	2.05	0.54
3:VH:81:PHE:O	3:VH:84:ILE:HG22	2.07	0.54
3:VH:324:LYS:NZ	4:VI:222:PRO:O	2.34	0.54
3:VH:385:PHE:HA	3:VH:388:MET:HE2	1.89	0.54
3:WB:172:SER:HB3	3:WB:175:VAL:O	2.08	0.54
3:WF:7:LEU:HD13	3:WF:64:VAL:HB	1.89	0.54
3:WF:215:LEU:HD11	3:WF:228:LEU:HD11	1.89	0.54
4:WI:52:PHE:HZ	4:WI:239:THR:HB	1.73	0.54
4:WI:68:VAL:HG12	4:WI:93:ILE:HB	1.89	0.54
3:WJ:305:PRO:HB2	3:WJ:310:TYR:HE1	1.72	0.54
34:XB:86:TYR:HA	34:XB:107:ASN:HD21	1.71	0.54
34:XC:168:SER:HB2	34:XC:172:TYR:CD2	2.42	0.54
35:XJ:68:ALA:H	35:XJ:80:TRP:HA	1.72	0.54
35:XK:160:VAL:HG13	35:XK:161:VAL:HG13	1.90	0.54
37:YB:41:ARG:HD2	37:YB:42:PRO:HD2	1.88	0.54
37:YN:1:MET:SD	37:YN:2:ASN:ND2	2.81	0.54
2:A2:183:THR:OG1	7:C2:266:ARG:NH1	2.41	0.54
2:A3:336:ARG:HD2	2:A4:58:ASP:OD2	2.08	0.54
4:AC:34:GLY:HA2	4:AC:86:LEU:HD21	1.89	0.54
3:AJ:139:LEU:HD21	3:AJ:170:VAL:HG22	1.90	0.54
4:AM:392:ASP:OD1	4:AM:393:HIS:N	2.41	0.54
5:B6:78:LEU:HD13	5:B6:179:LYS:HZ2	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B8:119:LEU:HD22	5:B8:389:LYS:HD2	1.90	0.54
5:B9:363:LEU:HG	5:B9:367:PHE:CE2	2.43	0.54
3:BB:19:LYS:NZ	3:BB:223:GLY:O	2.40	0.54
3:BF:317:PHE:O	3:BF:354:CYS:N	2.31	0.54
4:BG:2:ARG:HA	4:BG:133:GLN:HE22	1.72	0.54
6:C:232:SER:HA	6:C:235:ARG:HE	1.71	0.54
7:C8:447:SER:HA	10:E2:145:ARG:HH12	1.72	0.54
7:C9:374:GLN:HA	7:C9:377:MET:HE3	1.90	0.54
3:CB:198:GLU:HA	3:CB:266:PHE:HE2	1.71	0.54
3:CB:250:LEU:HD13	3:CB:253:LEU:HD12	1.88	0.54
3:CB:290:THR:HG22	3:CB:294:PHE:HE1	1.73	0.54
3:CD:268:PRO:HD2	3:CD:301:ALA:HB2	1.89	0.54
3:CF:306:ARG:NE	3:CF:306:ARG:O	2.41	0.54
3:CF:357:PRO:HB3	3:CF:362:LYS:HA	1.89	0.54
4:CI:224:TYR:HB3	4:CI:228:ASN:ND2	2.23	0.54
4:CK:139:HIS:CD2	4:CK:170:ALA:HB2	2.43	0.54
3:CL:150:LEU:HB3	3:CL:154:LYS:HZ1	1.72	0.54
7:Ca:189:GLU:OE1	7:Ca:189:GLU:N	2.36	0.54
8:D3:436:ARG:HH12	27:Q:9:LEU:HG	1.73	0.54
8:D4:255:GLU:OE1	8:D4:255:GLU:N	2.34	0.54
8:D7:112:CYS:O	8:D7:115:SER:OG	2.15	0.54
8:D7:114:LYS:HG2	8:D7:218:LYS:HB3	1.90	0.54
4:DE:9:VAL:HA	4:DE:68:VAL:HG23	1.89	0.54
4:DE:11:GLN:HB2	4:DE:74:VAL:HG21	1.89	0.54
3:DH:47:ILE:HG12	3:DH:59:TYR:CD2	2.42	0.54
3:DH:130:LEU:HB2	3:DH:162:ARG:HH11	1.71	0.54
4:DI:10:GLY:O	4:DI:14:VAL:HG13	2.07	0.54
3:DL:4:ILE:HD11	3:DL:131:GLN:HB2	1.89	0.54
8:Da:99:SER:O	8:Da:103:VAL:HG23	2.08	0.54
10:E1:2:GLU:O	10:E1:6:ARG:NH2	2.41	0.54
4:EA:207:GLU:HB2	4:EA:304:LYS:NZ	2.22	0.54
3:EB:83:GLN:O	3:EB:86:ARG:NH2	2.41	0.54
3:ED:139:LEU:N	3:ED:168:SER:OG	2.37	0.54
3:EJ:1:MET:HE1	3:EJ:49:VAL:HA	1.88	0.54
3:EJ:139:LEU:N	3:EJ:168:SER:OG	2.40	0.54
4:EK:220:GLU:O	4:EK:221:ARG:NE	2.40	0.54
11:F4:151:PHE:O	11:F4:154:SER:OG	2.22	0.54
11:F6:342:ALA:O	11:F6:346:ARG:HD3	2.06	0.54
11:F9:214:ASN:HB3	11:F9:339:THR:HG22	1.89	0.54
11:F9:379:GLU:O	11:F9:382:ILE:HG22	2.08	0.54
4:FC:6:SER:HA	4:FC:136:LEU:HB2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FE:263:PRO:C	4:FE:264:ARG:HD3	2.32	0.54
3:FL:70:PRO:HA	3:FL:73:MET:HE3	1.90	0.54
11:Fb:211:VAL:HA	11:Fb:214:ASN:HD22	1.73	0.54
11:Fb:331:GLN:HA	11:Fb:334:LYS:HZ2	1.72	0.54
11:Fb:388:PRO:HG2	11:Fc:131:ILE:HD12	1.87	0.54
11:Fc:361:LEU:HD21	11:Fc:451:LEU:HB3	1.90	0.54
11:Fc:454:GLU:HA	11:Fc:457:ILE:HG22	1.89	0.54
11:Fe:153:LYS:HD2	11:Fe:257:LYS:HE2	1.89	0.54
11:Fe:201:ARG:NH1	11:Fe:205:ASP:O	2.41	0.54
11:Ff:201:ARG:NH1	11:Ff:205:ASP:O	2.40	0.54
11:Fh:349:GLU:HA	11:Fh:352:ASP:OD2	2.08	0.54
4:GA:261:PRO:HA	3:GB:394:PHE:CE1	2.42	0.54
3:GB:218:THR:OG1	3:GB:219:THR:N	2.41	0.54
4:GE:209:ILE:HG23	4:GE:230:LEU:HD13	1.88	0.54
4:GG:119:LEU:HA	4:GG:122:ILE:HG12	1.88	0.54
3:GJ:19:LYS:NZ	3:GJ:223:GLY:O	2.41	0.54
3:GL:268:PRO:HD2	3:GL:301:ALA:HB2	1.88	0.54
4:HC:33:ASP:OD1	4:HC:34:GLY:N	2.41	0.54
4:HE:414:GLU:CD	4:HE:416:GLY:H	2.15	0.54
4:HG:208:ALA:H	4:HG:304:LYS:NZ	2.06	0.54
3:HH:65:LEU:HD21	3:HH:73:MET:HG3	1.88	0.54
3:HL:187:LEU:HD21	3:HL:408:PHE:CD1	2.42	0.54
3:HL:252:LYS:O	3:HL:256:ASN:ND2	2.40	0.54
3:IB:239:CYS:SG	3:IB:248:ALA:HA	2.47	0.54
3:ID:47:ILE:HG13	3:ID:51:TYR:HB2	1.89	0.54
3:ID:175:VAL:HG22	3:ID:177:ASP:H	1.73	0.54
4:II:257:THR:OG1	4:II:258:ASN:ND2	2.40	0.54
4:II:400:ALA:O	4:II:402:ARG:NH1	2.41	0.54
3:IJ:2:ARG:HB3	3:IJ:131:GLN:NE2	2.22	0.54
3:IL:322:SER:HB3	3:IL:324:LYS:NZ	2.22	0.54
19:J1:83:PHE:O	19:J1:87:ILE:HG12	2.07	0.54
19:J1:183:ALA:O	19:J1:187:GLU:N	2.41	0.54
4:JA:264:ARG:O	4:JA:266:HIS:ND1	2.41	0.54
3:JB:11:GLN:HG3	39:JB:501:GTP:PA	2.47	0.54
4:JC:269:LEU:N	4:JC:379:SER:O	2.31	0.54
4:JG:210:TYR:OH	4:JG:221:ARG:NH2	2.40	0.54
3:JH:166:THR:OG1	3:JH:198:GLU:O	2.25	0.54
3:JJ:70:PRO:HA	3:JJ:73:MET:HE3	1.89	0.54
3:JL:131:GLN:HB3	3:JL:163:ILE:HD12	1.88	0.54
20:K:130:ILE:HD11	20:K:150:PHE:CD2	2.43	0.54
21:K2:401:TYR:OH	21:K3:130:ALA:HB2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KB:111:GLU:HG2	3:KB:112:LEU:HD12	1.89	0.54
4:KC:1:MET:O	4:KC:133:GLN:NE2	2.34	0.54
4:KC:423:GLU:HA	4:KC:426:ALA:HB3	1.90	0.54
3:KH:292:GLN:O	3:KH:298:ASN:ND2	2.38	0.54
4:KK:245:ASP:O	4:KK:356:ASN:ND2	2.41	0.54
20:L:52:ARG:O	20:L:124:GLY:N	2.40	0.54
22:L3:86:PRO:C	4:LI:264:ARG:HH12	2.15	0.54
4:LA:220:GLU:HG2	4:LA:221:ARG:HG2	1.89	0.54
3:LB:12:CYS:SG	3:LB:13:GLY:N	2.81	0.54
3:LB:58:LYS:HZ2	3:LB:84:ILE:HD12	1.73	0.54
4:LE:93:ILE:HG13	4:LE:118:VAL:HG12	1.89	0.54
4:LG:83:TYR:HB3	4:LG:86:LEU:HD12	1.90	0.54
4:LG:206:ASN:HA	4:LG:209:ILE:HD12	1.90	0.54
3:LH:324:LYS:HE2	4:LI:222:PRO:CD	2.38	0.54
3:LJ:2:ARG:HA	3:LJ:129:CYS:O	2.07	0.54
3:LL:309:ARG:O	3:LL:371:SER:OG	2.23	0.54
3:MF:176:SER:O	3:MF:178:THR:N	2.40	0.54
3:NH:309:ARG:HH22	3:NH:344:TRP:HZ3	1.55	0.54
3:NL:214:THR:HG23	3:NL:215:LEU:HD12	1.90	0.54
3:OB:250:LEU:O	3:OB:254:ALA:N	2.29	0.54
4:OE:263:PRO:HD3	3:OF:396:HIS:CD2	2.43	0.54
3:OJ:13:GLY:HA2	3:OJ:16:ILE:HB	1.88	0.54
4:OK:33:ASP:OD1	4:OK:34:GLY:N	2.40	0.54
4:OK:371:VAL:HG11	4:OK:374:ALA:HB2	1.88	0.54
29:P1:229:ILE:N	29:P1:243:GLY:O	2.35	0.54
29:P1:430:LYS:HG3	29:P1:431:ARG:HG3	1.90	0.54
29:P2:167:SER:HB2	29:P2:173:MET:HB2	1.89	0.54
29:P2:231:LYS:HG2	29:P2:240:ALA:HB3	1.88	0.54
29:P3:84:VAL:HG22	29:P3:113:LYS:HB2	1.89	0.54
4:PA:192:HIS:HA	4:PA:195:LEU:HD23	1.90	0.54
3:PD:3:GLU:HG2	3:PD:130:LEU:HD23	1.89	0.54
3:PD:70:PRO:HA	3:PD:73:MET:HE2	1.90	0.54
4:PE:245:ASP:O	4:PE:356:ASN:ND2	2.41	0.54
3:PF:374:ILE:HA	3:PF:377:LEU:HD13	1.88	0.54
3:PJ:419:VAL:HG12	3:PJ:423:GLN:HE22	1.72	0.54
4:PM:208:ALA:N	4:PM:304:LYS:HZ1	2.05	0.54
30:Q1:1383:ILE:HG13	30:Q1:1384:VAL:HG13	1.89	0.54
30:Q1:1433:THR:H	30:Q1:1437:TYR:HD2	1.54	0.54
30:Q2:1468:LEU:HD23	30:Q2:1505:ILE:N	2.23	0.54
3:QB:40:SER:O	3:QB:43:GLN:HG2	2.08	0.54
4:QC:236:SER:O	4:QC:243:ARG:NH2	2.35	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:QC:399:TYR:HB3	4:QC:422:ARG:HH21	1.71	0.54
3:QD:103:LYS:O	3:QD:108:GLU:N	2.35	0.54
4:QE:331:ALA:O	4:QE:334:THR:OG1	2.23	0.54
3:QH:12:CYS:HA	39:QH:501:GTP:N2	2.22	0.54
3:QL:170:VAL:N	3:QL:202:ILE:O	2.37	0.54
4:RG:192:HIS:NE2	4:RG:420:GLU:OE2	2.40	0.54
3:RH:77:ARG:O	3:RH:77:ARG:NH1	2.34	0.54
3:RH:306:ARG:O	3:RH:306:ARG:NE	2.35	0.54
3:RJ:322:SER:OG	3:RJ:323:MET:SD	2.66	0.54
4:RK:423:GLU:HA	4:RK:426:ALA:HB3	1.89	0.54
3:RL:12:CYS:HB3	39:RL:501:GTP:O4'	2.06	0.54
4:RM:68:VAL:HG12	4:RM:93:ILE:HB	1.90	0.54
3:SJ:2:ARG:HH12	3:SJ:251:ARG:HH21	1.54	0.54
4:SM:22:GLU:O	4:SM:26:LEU:HD23	2.08	0.54
3:TB:268:PRO:HD2	3:TB:301:ALA:HB2	1.89	0.54
3:TB:412:GLU:HA	3:TB:415:MET:HE2	1.88	0.54
4:TC:392:ASP:OD1	4:TC:393:HIS:N	2.41	0.54
3:TD:51:TYR:HD2	3:TD:59:TYR:HB3	1.71	0.54
39:TF:501:GTP:O3G	39:TF:501:GTP:O3'	2.19	0.54
3:TH:324:LYS:O	3:TH:327:ASP:N	2.38	0.54
3:TJ:249:ASP:O	3:TJ:252:LYS:HB2	2.06	0.54
4:UE:245:ASP:O	4:UE:356:ASN:ND2	2.41	0.54
4:UE:316:CYS:N	4:UE:378:LEU:O	2.40	0.54
3:UF:214:THR:HG21	3:UF:273:LEU:HB3	1.89	0.54
4:UG:120:ASP:OD1	4:UG:123:ARG:NH1	2.39	0.54
3:UH:175:VAL:HG12	3:UH:177:ASP:H	1.72	0.54
3:VB:151:LEU:HD22	3:VB:154:LYS:HZ1	1.73	0.54
4:VC:220:GLU:O	4:VC:221:ARG:NE	2.40	0.54
4:VG:36:MET:HE3	4:VG:37:PRO:CD	2.37	0.54
3:VH:4:ILE:HD11	3:VH:131:GLN:HB2	1.88	0.54
3:VL:12:CYS:HA	39:VL:501:GTP:N2	2.23	0.54
4:WA:287:SER:OG	4:WA:290:GLU:OE1	2.23	0.54
4:WC:205:ASP:OD2	4:WC:304:LYS:NZ	2.31	0.54
3:WH:173:PRO:O	3:WH:380:ARG:NH2	2.40	0.54
3:WH:324:LYS:HE2	4:WI:222:PRO:HD2	1.89	0.54
3:WH:375:GLN:HA	3:WH:378:PHE:CZ	2.42	0.54
37:YB:18:PHE:O	37:YB:22:GLN:HB3	2.07	0.54
37:YE:16:LYS:HA	37:YE:19:GLN:HG2	1.89	0.54
37:YE:50:GLN:O	37:YE:53:MET:HG3	2.08	0.54
37:YF:90:THR:HG21	37:YF:154:HIS:CE1	2.43	0.54
37:YJ:82:HIS:CE1	37:YJ:86:LEU:HD11	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A1:320:ARG:NH1	2:A1:334:GLN:OE1	2.41	0.54
4:AC:208:ALA:H	4:AC:304:LYS:NZ	2.05	0.54
4:AG:261:PRO:HG3	4:AG:313:MET:HE2	1.90	0.54
3:AH:392:LYS:HB2	3:AH:395:LEU:HD13	1.88	0.54
4:AI:402:ARG:HH22	35:XK:185:LYS:HE2	1.71	0.54
3:AJ:230:SER:HA	3:AJ:233:MET:SD	2.48	0.54
4:AK:264:ARG:HH12	34:XF:116:PRO:HD2	1.71	0.54
5:B2:389:LYS:HA	5:B2:408:VAL:HG21	1.89	0.54
5:B4:55:TRP:CE3	5:B4:58:HIS:HE1	2.25	0.54
5:B7:199:ILE:HA	5:B8:316:THR:HG21	1.90	0.54
5:B8:120:ARG:HH11	5:B8:120:ARG:HG2	1.72	0.54
5:B8:167:GLU:O	5:B8:170:GLN:NE2	2.40	0.54
3:BB:182:PRO:HB2	3:BB:388:MET:HE1	1.89	0.54
4:BC:192:HIS:HA	4:BC:195:LEU:HD23	1.90	0.54
3:BD:302:ALA:HB1	3:BD:377:LEU:HD11	1.88	0.54
4:BE:263:PRO:O	4:BE:264:ARG:HD3	2.07	0.54
3:BF:81:PHE:O	3:BF:84:ILE:HG22	2.07	0.54
4:BG:33:ASP:OD1	4:BG:34:GLY:N	2.41	0.54
4:BM:272:TYR:CZ	4:BM:274:PRO:HG2	2.43	0.54
7:C4:267:ILE:HD13	7:C5:406:ARG:HA	1.90	0.54
7:C4:339:GLN:HA	7:C4:342:LYS:HE3	1.90	0.54
4:CC:224:TYR:CE1	39:CC:501:GTP:C5	2.93	0.54
3:CD:172:SER:OG	3:CD:205:GLU:OE2	2.19	0.54
7:Cb:380:GLU:HA	7:Cb:383:LYS:HE2	1.90	0.54
8:D7:376:ARG:HH11	8:D8:102:LYS:HZ3	1.55	0.54
4:DA:11:GLN:HG3	39:DA:501:GTP:O1B	2.07	0.54
4:DA:208:ALA:H	4:DA:304:LYS:NZ	2.06	0.54
3:DD:12:CYS:O	3:DD:16:ILE:HG12	2.08	0.54
3:DD:41:ASP:N	3:DD:41:ASP:OD1	2.37	0.54
3:DD:141:GLY:HA3	39:DD:501:GTP:H5"	1.90	0.54
3:DD:309:ARG:O	3:DD:371:SER:OG	2.23	0.54
3:DF:44:LEU:HD21	15:H4:289:ILE:HA	1.88	0.54
3:DH:49:VAL:HG13	3:DH:50:TYR:CD2	2.42	0.54
3:DJ:250:LEU:HD13	3:DJ:253:LEU:HD12	1.90	0.54
3:DJ:309:ARG:H	3:DJ:372:THR:HG1	1.52	0.54
4:EA:319:TYR:N	4:EA:354:GLY:O	2.38	0.54
4:EC:226:ASN:HA	4:EC:229:ARG:HD3	1.89	0.54
3:EF:372:THR:HB	3:EF:375:GLN:HE22	1.73	0.54
4:EI:220:GLU:O	4:EI:221:ARG:NE	2.41	0.54
11:F1:193:GLU:O	11:F1:197:ASN:ND2	2.40	0.54
11:F3:94:ASP:O	11:F3:97:ARG:NH1	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:F7:411:VAL:HA	11:F7:414:PHE:HD2	1.71	0.54
11:F8:433:ARG:O	11:F8:437:THR:HG23	2.08	0.54
4:FA:51:THR:HG23	4:FA:52:PHE:CD2	2.42	0.54
3:FB:347:ASN:HB3	4:FC:178:SER:HB3	1.89	0.54
4:FG:105:ARG:O	4:FG:109:THR:OG1	2.23	0.54
4:FI:395:PHE:HE2	4:FI:422:ARG:HH22	1.54	0.54
3:FJ:42:LEU:HD12	3:FJ:243:PRO:HD2	1.89	0.54
11:Fa:101:LEU:O	11:Fa:104:ARG:HG3	2.07	0.54
11:Fa:393:GLN:NE2	11:Fa:394:THR:HG23	2.23	0.54
11:Fb:374:THR:HG21	11:Fc:117:THR:HG22	1.89	0.54
11:Fb:399:ARG:NH2	11:Fb:407:LEU:HD12	2.22	0.54
11:Fi:315:ILE:O	11:Fi:318:ARG:HG2	2.08	0.54
13:G1:127:GLU:HG2	13:G1:128:ASP:H	1.72	0.54
13:G1:429:PRO:HA	14:G5:644:TYR:CE2	2.43	0.54
13:G1:474:LYS:HE3	13:G1:476:PHE:HB2	1.88	0.54
13:G3:280:GLU:HG2	13:G3:281:ARG:H	1.72	0.54
14:G4:653:LEU:HD12	14:G4:654:PRO:HD2	1.88	0.54
14:G5:388:ARG:NH1	14:G5:389:LYS:O	2.41	0.54
14:G5:436:TYR:HB2	14:G5:454:ILE:HD11	1.89	0.54
14:G6:225:TYR:HB3	14:G6:255:LEU:HB2	1.89	0.54
4:GE:287:SER:OG	4:GE:290:GLU:OE1	2.23	0.54
4:GI:108:TYR:O	4:GI:112:LYS:NZ	2.27	0.54
3:GJ:130:LEU:HB2	3:GJ:162:ARG:HH11	1.73	0.54
4:GK:359:PRO:HD2	25:N:80:LYS:HD3	1.89	0.54
3:GL:250:LEU:O	3:GL:254:ALA:N	2.35	0.54
15:H2:282:ILE:HD12	15:H2:283:PRO:HD2	1.89	0.54
15:H4:281:LEU:HB3	15:H4:304:THR:HG21	1.90	0.54
4:HA:273:ALA:N	4:HA:377:MET:HE1	2.23	0.54
4:HA:391:LEU:HA	4:HA:394:LYS:HE3	1.89	0.54
3:HD:52:ASN:OD1	3:HD:62:ARG:NH1	2.41	0.54
3:HF:290:THR:HG21	3:HF:329:GLN:HG3	1.89	0.54
4:HI:321:GLY:N	4:HI:356:ASN:O	2.21	0.54
4:HI:422:ARG:NH1	4:HI:423:GLU:HB3	2.23	0.54
3:HJ:2:ARG:HB3	3:HJ:131:GLN:NE2	2.23	0.54
3:HJ:101:TRP:HB2	3:HJ:184:ASN:HD22	1.72	0.54
3:HJ:357:PRO:HB3	3:HJ:362:LYS:HA	1.90	0.54
4:HK:33:ASP:OD1	4:HK:34:GLY:N	2.41	0.54
3:HL:120:VAL:O	3:HL:124:ALA:N	2.39	0.54
4:IA:209:ILE:HA	4:IA:212:ILE:HD12	1.88	0.54
4:IE:102:ASN:HB3	4:IE:105:ARG:HB2	1.89	0.54
4:IE:188:ILE:HA	4:IE:191:THR:OG1	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:IE:265:ILE:HD12	4:IE:432:TYR:CE1	2.42	0.54
3:IF:39:ASP:OD1	3:IF:43:GLN:NE2	2.41	0.54
3:IF:295:ASP:HB2	3:IF:298:ASN:HB2	1.90	0.54
3:IL:21:TRP:CZ2	3:IL:63:ALA:HB2	2.43	0.54
3:IL:39:ASP:OD1	3:IL:43:GLN:NE2	2.41	0.54
4:IM:185:TYR:CE1	4:IM:398:MET:HE1	2.43	0.54
18:J:47:THR:HG23	3:JF:359:ARG:NH2	2.21	0.54
3:JD:286:VAL:HG21	3:JD:325:GLU:HG3	1.89	0.54
3:JD:375:GLN:HA	3:JD:378:PHE:CZ	2.42	0.54
4:JE:196:GLU:OE1	4:JE:196:GLU:N	2.37	0.54
4:JE:401:LYS:C	4:JE:402:ARG:HD3	2.33	0.54
3:JF:285:THR:O	3:JF:288:GLU:HG3	2.08	0.54
3:JF:302:ALA:HB1	3:JF:377:LEU:HD11	1.90	0.54
3:JF:319:GLY:HA2	3:JF:357:PRO:HG3	1.90	0.54
4:JG:223:THR:OG1	4:JG:225:THR:OG1	2.18	0.54
4:JK:318:LEU:HB2	4:JK:376:CYS:HB3	1.89	0.54
21:K2:368:ASN:O	21:K2:371:MET:HG3	2.07	0.54
21:K3:184:TYR:O	21:K3:190:LYS:NZ	2.41	0.54
21:K3:401:TYR:CG	21:K4:126:VAL:HG23	2.43	0.54
3:KB:217:LEU:HD11	3:KB:220:PRO:HB3	1.90	0.54
3:KH:12:CYS:SG	3:KH:13:GLY:N	2.81	0.54
4:KI:377:MET:SD	4:KI:379:SER:OG	2.59	0.54
3:KL:309:ARG:O	3:KL:371:SER:OG	2.24	0.54
3:KL:357:PRO:HD2	32:T:362:GLU:HG2	1.90	0.54
20:L:40:ILE:HD12	20:L:44:ARG:HH22	1.73	0.54
22:L3:72:LEU:O	22:L3:74:PRO:HD3	2.08	0.54
22:L3:76:LYS:HZ1	4:LI:414:GLU:C	2.13	0.54
22:L3:87:ALA:HA	4:LI:264:ARG:HH22	1.72	0.54
22:L4:49:MET:N	22:L4:49:MET:SD	2.81	0.54
4:LA:256:GLN:O	4:LA:260:VAL:HG12	2.08	0.54
4:LA:311:LYS:N	4:LA:382:THR:OG1	2.36	0.54
4:LC:24:TYR:O	4:LC:28:HIS:ND1	2.33	0.54
4:LE:70:LEU:HA	4:LE:95:GLY:HA3	1.89	0.54
3:LL:13:GLY:HA2	3:LL:16:ILE:HG22	1.89	0.54
3:LL:135:LEU:HD21	3:LL:151:LEU:HD11	1.89	0.54
3:MB:289:LEU:O	3:MB:293:MET:N	2.35	0.54
3:MD:268:PRO:HD2	3:MD:301:ALA:HB2	1.89	0.54
3:MF:11:GLN:HG3	39:MF:501:GTP:PA	2.48	0.54
3:MF:324:LYS:HD2	4:MG:221:ARG:HA	1.88	0.54
3:MH:48:ASN:O	3:MH:62:ARG:NH2	2.32	0.54
3:MH:214:THR:HG21	3:MH:273:LEU:HB3	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MH:350:LYS:HE3	4:MI:181:VAL:H	1.72	0.54
4:MK:33:ASP:OD1	4:MK:34:GLY:N	2.41	0.54
26:N3:89:LYS:O	26:N3:93:LEU:HD23	2.08	0.54
4:NA:214:ARG:NH1	4:NA:215:ARG:HG3	2.23	0.54
4:NC:168:GLU:HB2	4:NC:201:ALA:HA	1.88	0.54
3:NF:289:LEU:HD21	3:NF:363:MET:HB3	1.90	0.54
3:NL:269:GLY:N	3:NL:367:PHE:O	2.41	0.54
4:OC:319:TYR:N	4:OC:354:GLY:O	2.40	0.54
3:OH:305:PRO:HB2	3:OH:310:TYR:HE1	1.72	0.54
3:OJ:218:THR:OG1	3:OJ:219:THR:N	2.41	0.54
3:OJ:305:PRO:HB2	3:OJ:310:TYR:HE1	1.72	0.54
4:OK:12:ALA:HB1	39:OK:501:GTP:C2	2.42	0.54
4:OK:264:ARG:O	4:OK:266:HIS:ND1	2.36	0.54
3:OL:84:ILE:O	3:OL:86:ARG:NH1	2.40	0.54
29:P1:387:LYS:HA	29:P1:403:PRO:HG3	1.89	0.54
29:P1:425:THR:HG22	29:P1:432:ILE:HG12	1.88	0.54
3:PB:58:LYS:HE2	3:QB:281:TYR:HE1	1.73	0.54
4:PC:216:ASN:HB2	4:PC:276:ILE:HD12	1.89	0.54
3:PH:426:GLN:NE2	3:PH:427:ASP:OD2	2.41	0.54
4:PK:167:LEU:HD13	4:PK:200:CYS:HB2	1.89	0.54
4:PM:185:TYR:CZ	4:PM:398:MET:HE1	2.43	0.54
4:PM:331:ALA:O	4:PM:334:THR:OG1	2.22	0.54
4:PM:392:ASP:OD1	4:PM:393:HIS:N	2.41	0.54
3:QF:420:SER:O	3:QF:424:GLN:HG3	2.08	0.54
4:QI:34:GLY:HA2	4:QI:86:LEU:HD11	1.88	0.54
3:RD:302:ALA:HB1	3:RD:377:LEU:HD11	1.90	0.54
4:RI:214:ARG:NH1	4:RI:215:ARG:HG3	2.23	0.54
4:RI:346:TRP:HB3	3:RJ:391:ARG:HD3	1.89	0.54
4:RK:263:PRO:O	4:RK:264:ARG:HD3	2.07	0.54
3:RL:289:LEU:O	3:RL:293:MET:HG2	2.07	0.54
4:RM:53:PHE:O	4:RM:64:ARG:NH1	2.41	0.54
4:RM:236:SER:O	4:RM:243:ARG:NH2	2.36	0.54
3:SB:378:PHE:CD1	3:SB:419:VAL:HG22	2.43	0.54
3:SF:174:LYS:HG3	3:SF:175:VAL:HG12	1.88	0.54
4:SG:254:GLU:OE1	4:SG:254:GLU:N	2.34	0.54
4:SG:312:TYR:HB2	4:SG:343:PHE:HA	1.90	0.54
3:SL:324:LYS:NZ	4:SM:222:PRO:O	2.27	0.54
4:TC:118:VAL:HA	4:TC:121:ARG:HG2	1.88	0.54
3:TF:132:GLY:HA3	3:TF:163:ILE:H	1.71	0.54
4:TK:272:TYR:CZ	4:TK:274:PRO:HG2	2.42	0.54
4:TM:236:SER:O	4:TM:243:ARG:NH2	2.32	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TN:257:MET:HE3	3:TN:370:ASN:ND2	2.23	0.54
3:UB:350:LYS:HE3	4:UC:181:VAL:H	1.72	0.54
3:UF:32:PRO:O	3:UF:83:GLN:NE2	2.39	0.54
4:UK:1:MET:O	4:UK:131:GLY:HA3	2.08	0.54
33:V:498:GLU:O	33:V:502:ARG:N	2.39	0.54
4:VC:33:ASP:OD1	4:VC:34:GLY:N	2.40	0.54
4:VC:89:PRO:HD2	4:WC:280:LYS:HZ3	1.73	0.54
4:VC:273:ALA:N	4:VC:377:MET:HE1	2.23	0.54
3:VF:12:CYS:O	3:VF:15:GLN:NE2	2.41	0.54
3:VF:19:LYS:NZ	3:VF:223:GLY:O	2.40	0.54
4:VG:230:LEU:O	4:VG:234:ILE:HG12	2.08	0.54
3:VJ:412:GLU:HA	3:VJ:415:MET:HE2	1.88	0.54
4:VK:401:LYS:C	4:VK:402:ARG:HD3	2.32	0.54
3:VL:19:LYS:NZ	3:VL:223:GLY:O	2.41	0.54
3:VL:132:GLY:HA2	3:VL:162:ARG:HB3	1.89	0.54
3:VL:174:LYS:HG3	3:VL:175:VAL:HG12	1.90	0.54
33:W:194:MET:HG3	33:X:521:LYS:NZ	2.22	0.54
3:WB:215:LEU:HD11	3:WB:228:LEU:HD11	1.90	0.54
4:WC:388:TRP:HB3	4:WC:425:LEU:HD11	1.90	0.54
4:WE:229:ARG:HE	4:WE:368:LEU:HD22	1.72	0.54
4:WE:245:ASP:O	4:WE:356:ASN:ND2	2.41	0.54
4:WE:346:TRP:HD1	3:WF:390:ARG:HH22	1.53	0.54
3:WF:206:ALA:O	3:WF:210:ILE:HG12	2.07	0.54
3:WF:389:PHE:HZ	3:WF:405:GLU:HB2	1.72	0.54
3:WH:3:GLU:OE2	3:WH:127:CYS:HB2	2.08	0.54
3:WH:174:LYS:HG3	3:WH:175:VAL:HG12	1.90	0.54
4:WI:144:GLY:N	39:WI:501:GTP:O2B	2.37	0.54
34:XE:83:LEU:O	34:XE:85:LYS:NZ	2.28	0.54
34:XE:170:ARG:NH2	34:XE:176:GLU:OE2	2.41	0.54
35:XM:137:ILE:O	35:XM:141:LEU:HG	2.08	0.54
37:YD:112:SER:HA	37:YD:135:GLY:HA3	1.89	0.54
37:YM:61:THR:O	37:YM:65:ILE:HG12	2.07	0.54
37:YO:114:ARG:NH2	37:YO:130:ALA:O	2.39	0.54
2:A2:19:ALA:O	2:A2:23:GLN:HG2	2.08	0.54
2:A4:74:LYS:HB3	2:A4:178:LYS:HD3	1.90	0.54
3:AB:379:LYS:O	3:AB:382:SER:OG	2.15	0.54
3:AF:12:CYS:HA	39:AF:501:GTP:HN22	1.73	0.54
4:AG:89:PRO:HD2	4:BG:280:LYS:NZ	2.22	0.54
3:AJ:262:ARG:NH2	35:XL:231:MET:SD	2.80	0.54
3:AJ:357:PRO:HB3	3:AJ:362:LYS:HA	1.90	0.54
4:AM:306:ASP:OD2	4:AM:309:HIS:ND1	2.31	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B7:134:GLU:O	5:B7:138:LEU:HG	2.08	0.54
5:B8:214:THR:OG1	5:B8:217:GLN:NE2	2.41	0.54
4:BC:1:MET:O	4:BC:133:GLN:NE2	2.37	0.54
4:BC:392:ASP:OD1	4:BC:393:HIS:N	2.40	0.54
4:BE:79:ARG:HH22	15:H2:20:TYR:HA	1.72	0.54
3:BH:309:ARG:H	3:BH:372:THR:HG1	1.54	0.54
4:BI:89:PRO:HD3	4:CI:283:HIS:CE1	2.43	0.54
3:BJ:172:SER:HB3	3:BJ:175:VAL:O	2.08	0.54
6:C:192:LYS:NZ	6:C:227:PRO:O	2.33	0.54
7:C1:126:ARG:HE	7:C1:127:LEU:HD23	1.73	0.54
7:C2:447:SER:O	7:C2:451:THR:HG23	2.08	0.54
7:C7:145:ASN:CG	7:C8:415:MET:HE1	2.32	0.54
3:CB:139:LEU:N	3:CB:168:SER:OG	2.41	0.54
3:CD:2:ARG:HA	3:CD:129:CYS:O	2.08	0.54
3:CD:67:ASP:OD2	3:CD:72:THR:OG1	2.20	0.54
3:CD:304:ASP:O	3:CD:307:HIS:ND1	2.41	0.54
3:CD:313:VAL:HG23	3:CD:349:VAL:HA	1.90	0.54
4:CG:230:LEU:O	4:CG:234:ILE:HG12	2.07	0.54
3:CH:174:LYS:HG3	3:CH:175:VAL:HG12	1.90	0.54
3:CJ:41:ASP:HA	3:CJ:44:LEU:HD12	1.90	0.54
3:CL:295:ASP:HB2	3:CL:298:ASN:HB2	1.88	0.54
8:D4:428:GLN:O	8:D4:432:THR:OG1	2.24	0.54
8:D8:57:PHE:CD2	11:Ff:388:PRO:HB3	2.43	0.54
8:D9:315:LEU:HD12	8:D9:423:LEU:HD12	1.89	0.54
3:DB:384:GLN:O	3:DB:388:MET:HG2	2.07	0.54
3:DD:45:GLU:HG3	3:DD:46:ARG:HG2	1.89	0.54
3:DF:81:PHE:O	3:DF:84:ILE:HG22	2.08	0.54
4:DG:427:ALA:HA	4:DG:430:LYS:HG2	1.90	0.54
3:DH:11:GLN:HG3	39:DH:501:GTP:PA	2.47	0.54
3:DH:12:CYS:HA	39:DH:501:GTP:N2	2.22	0.54
3:DJ:25:SER:O	3:DJ:29:GLY:N	2.41	0.54
3:DJ:269:GLY:O	3:DJ:367:PHE:N	2.36	0.54
4:DK:101:ASN:HA	4:DK:144:GLY:HA2	1.89	0.54
4:EE:216:ASN:OD1	4:EE:217:LEU:N	2.38	0.54
3:EH:156:ARG:CZ	3:EH:164:MET:HE3	2.38	0.54
3:EH:214:THR:HG21	3:EH:273:LEU:HB3	1.88	0.54
3:EL:328:GLU:OE2	3:EL:329:GLN:NE2	2.41	0.54
9:F:319:TYR:CE2	3:HJ:53:GLU:HB3	2.37	0.54
11:F3:135:GLN:O	11:F3:138:THR:OG1	2.20	0.54
11:F6:104:ARG:HH22	11:Fj:289:THR:HG23	1.73	0.54
11:F7:385:LYS:NZ	11:F7:388:PRO:HG2	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:F8:373:ASN:HA	11:Fi:305:ARG:NH2	2.23	0.54
3:FD:246:LEU:HB2	3:FD:352:ALA:HB1	1.89	0.54
3:FH:118:ASP:OD1	3:FH:121:ARG:NH1	2.40	0.54
4:FK:417:GLU:OE1	4:FK:417:GLU:N	2.31	0.54
11:Fc:117:THR:O	11:Fc:120:SER:OG	2.23	0.54
11:Fe:151:PHE:O	11:Fe:155:GLU:HG2	2.07	0.54
11:Ff:187:PRO:HG3	11:Ff:476:PHE:HE1	1.73	0.54
11:Fh:379:GLU:HA	11:Fh:382:ILE:HD12	1.88	0.54
11:Fl:445:VAL:O	11:Fl:448:LYS:HG3	2.07	0.54
12:G:94:THR:O	12:G:98:ARG:HG3	2.08	0.54
12:G:189:GLU:HA	12:G:192:ARG:HE	1.72	0.54
14:G5:230:LEU:HD13	14:G5:255:LEU:HD21	1.90	0.54
3:GB:26:ASP:OD1	3:GB:27:GLU:N	2.41	0.54
4:GC:49:PHE:O	4:GC:53:PHE:N	2.40	0.54
3:GD:235:GLY:O	3:GD:238:THR:OG1	2.25	0.54
3:GJ:20:PHE:CZ	3:GJ:24:ILE:HD11	2.43	0.54
4:GK:5:ILE:HD13	4:GK:64:ARG:HB3	1.88	0.54
3:HB:32:PRO:O	3:HB:83:GLN:NE2	2.31	0.54
3:HB:246:LEU:HD22	3:HB:354:CYS:HA	1.90	0.54
4:HC:286:LEU:HD11	4:HC:373:ARG:H	1.71	0.54
3:HD:176:SER:O	3:HD:178:THR:N	2.40	0.54
3:HD:323:MET:SD	3:HD:324:LYS:NZ	2.76	0.54
4:HE:12:ALA:HB1	39:HE:501:GTP:C2	2.43	0.54
3:HF:173:PRO:O	3:HF:380:ARG:NH2	2.41	0.54
3:HJ:285:THR:O	3:HJ:288:GLU:HG3	2.07	0.54
16:I:204:GLU:OE2	3:LF:277:GLY:N	2.40	0.54
4:IA:143:GLY:H	4:IA:147:SER:HB3	1.73	0.54
4:IA:196:GLU:OE1	4:IA:196:GLU:N	2.31	0.54
4:IA:203:MET:HE1	4:IA:267:PHE:HB3	1.88	0.54
4:IM:81:GLY:O	4:IM:84:ARG:NH1	2.41	0.54
4:IM:205:ASP:OD2	4:IM:304:LYS:NZ	2.30	0.54
4:JC:70:LEU:HA	4:JC:95:GLY:HA3	1.90	0.54
3:JF:156:ARG:NH1	3:JF:195:ASN:O	2.41	0.54
4:JK:22:GLU:O	4:JK:26:LEU:HD23	2.08	0.54
3:JL:5:VAL:HG23	3:JL:130:LEU:HD21	1.90	0.54
21:K3:368:ASN:ND2	21:K3:429:MET:SD	2.79	0.54
21:K3:387:LEU:HD11	24:M3:51:MET:SD	2.48	0.54
4:KC:386:GLU:HA	4:KC:389:ALA:HB3	1.89	0.54
4:KE:182:VAL:HA	4:KE:185:TYR:HD2	1.72	0.54
3:KH:322:SER:N	3:KH:325:GLU:OE2	2.39	0.54
3:KJ:83:GLN:O	3:KJ:86:ARG:NH2	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:KK:329:ASN:HA	4:KK:332:ILE:HG22	1.89	0.54
3:KL:345:ILE:HD12	3:KL:346:PRO:HD2	1.90	0.54
4:LA:396:ASP:OD1	4:LA:397:LEU:N	2.41	0.54
3:LF:174:LYS:HG3	3:LF:175:VAL:HG12	1.89	0.54
4:LG:245:ASP:O	4:LG:356:ASN:ND2	2.40	0.54
4:LG:287:SER:OG	4:LG:290:GLU:OE1	2.25	0.54
3:LH:11:GLN:HG3	39:LH:501:GTP:PA	2.48	0.54
3:LH:316:VAL:N	3:LH:366:THR:O	2.37	0.54
3:LH:375:GLN:HA	3:LH:378:PHE:CZ	2.43	0.54
4:LK:139:HIS:CD2	4:LK:170:ALA:HB2	2.43	0.54
4:LK:287:SER:OG	4:LK:290:GLU:OE1	2.22	0.54
3:LL:152:ILE:HD12	3:LL:155:ILE:HD11	1.90	0.54
3:LL:302:ALA:HB1	3:LL:377:LEU:HD11	1.90	0.54
23:M:86:MET:HG2	23:M:87:TYR:HD1	1.73	0.54
3:MB:309:ARG:O	3:MB:371:SER:OG	2.25	0.54
4:MC:6:SER:HA	4:MC:136:LEU:HB2	1.90	0.54
4:ME:166:LYS:N	4:ME:199:ASP:OD2	2.40	0.54
4:ME:319:TYR:N	4:ME:354:GLY:O	2.39	0.54
3:MH:269:GLY:O	3:MH:367:PHE:N	2.28	0.54
4:MI:392:ASP:OD1	4:MI:393:HIS:N	2.40	0.54
3:ML:295:ASP:HB2	3:ML:298:ASN:HB2	1.88	0.54
4:MM:11:GLN:HG3	39:MM:501:GTP:O1B	2.07	0.54
4:NA:5:ILE:HD13	4:NA:64:ARG:HB3	1.88	0.54
4:NC:287:SER:OG	4:NC:290:GLU:OE1	2.20	0.54
4:NE:388:TRP:HB3	4:NE:425:LEU:HD11	1.90	0.54
28:O1:94:LYS:HA	28:O1:97:HIS:CE1	2.43	0.54
28:O3:59:SER:HB2	28:O3:60:PRO:HD3	1.88	0.54
4:OI:411:GLU:OE2	4:OI:413:MET:HE1	2.07	0.54
3:OJ:350:LYS:HE3	4:OK:181:VAL:H	1.72	0.54
29:P1:532:PHE:HB3	36:Y:77:HIS:CD2	2.43	0.54
29:P2:84:VAL:HG22	29:P2:113:LYS:HB2	1.90	0.54
29:P2:396:GLY:O	29:P2:415:ALA:N	2.39	0.54
29:P3:164:VAL:HG23	29:P3:176:THR:HG22	1.90	0.54
4:PA:145:THR:OG1	39:PA:501:GTP:O1B	2.26	0.54
4:PC:6:SER:HA	4:PC:136:LEU:HB2	1.89	0.54
4:PG:168:GLU:HB2	4:PG:201:ALA:HA	1.89	0.54
4:PG:264:ARG:O	4:PG:266:HIS:ND1	2.35	0.54
3:PH:347:ASN:HB3	4:PI:178:SER:HB3	1.90	0.54
4:PK:144:GLY:N	39:PK:501:GTP:O2B	2.40	0.54
30:Q3:1449:HIS:ND1	30:Q3:1450:CYS:SG	2.78	0.54
3:QD:132:GLY:HA3	3:QD:163:ILE:H	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QD:176:SER:O	3:QD:178:THR:N	2.41	0.54
3:QF:32:PRO:O	3:QF:83:GLN:NE2	2.36	0.54
3:QF:172:SER:OG	3:QF:205:GLU:OE2	2.17	0.54
3:QF:292:GLN:O	3:QF:298:ASN:ND2	2.40	0.54
3:QH:46:ARG:HH12	4:QI:73:THR:HG23	1.73	0.54
3:QH:286:VAL:HG21	3:QH:325:GLU:HG3	1.89	0.54
3:QJ:2:ARG:HA	3:QJ:129:CYS:O	2.07	0.54
3:QJ:166:THR:OG1	3:QJ:198:GLU:O	2.21	0.54
4:QK:33:ASP:OD1	4:QK:34:GLY:N	2.40	0.54
4:QM:256:GLN:O	4:QM:260:VAL:HG12	2.08	0.54
3:RB:2:ARG:HA	3:RB:129:CYS:O	2.07	0.54
4:RC:12:ALA:HB1	39:RC:501:GTP:C2	2.43	0.54
4:RC:187:SER:O	4:RC:190:THR:OG1	2.22	0.54
3:RD:13:GLY:HA2	3:RD:16:ILE:HB	1.90	0.54
4:RE:9:VAL:HA	4:RE:68:VAL:HG23	1.90	0.54
3:RF:6:HIS:HB3	3:RF:21:TRP:HZ2	1.72	0.54
3:RF:386:THR:O	3:RF:390:ARG:HG2	2.08	0.54
4:RG:324:VAL:HG11	3:RH:219:THR:HB	1.90	0.54
3:RH:357:PRO:HB3	3:RH:362:LYS:HA	1.89	0.54
3:RJ:321:MET:SD	3:RJ:363:MET:HG3	2.47	0.54
4:RK:319:TYR:HB2	4:RK:355:ILE:HD13	1.88	0.54
3:SB:52:ASN:OD1	3:SB:62:ARG:NH1	2.40	0.54
3:SB:118:ASP:OD1	3:SB:121:ARG:NH1	2.41	0.54
4:SI:234:ILE:HD11	4:SI:272:TYR:HB2	1.90	0.54
4:SI:269:LEU:N	4:SI:379:SER:O	2.35	0.54
3:SJ:49:VAL:HG11	3:SJ:241:ARG:HG2	1.90	0.54
4:TE:102:ASN:HB3	4:TE:105:ARG:HB2	1.90	0.54
4:TK:169:PHE:HA	4:TK:202:PHE:O	2.08	0.54
3:TL:148:GLY:O	3:TL:152:ILE:HG12	2.08	0.54
3:TL:318:ARG:HD3	3:TL:358:PRO:HG3	1.89	0.54
3:UD:289:LEU:HD21	3:UD:363:MET:HB3	1.90	0.54
3:UD:302:ALA:HB1	3:UD:377:LEU:HD11	1.89	0.54
4:UE:68:VAL:HG12	4:UE:93:ILE:HB	1.90	0.54
4:UE:216:ASN:ND2	4:UE:275:VAL:O	2.41	0.54
3:UH:415:MET:SD	3:UH:416:ASN:ND2	2.80	0.54
3:UJ:12:CYS:HA	39:UJ:501:GTP:N2	2.22	0.54
3:VB:54:ALA:HB3	3:VB:58:LYS:HB3	1.90	0.54
4:VE:70:LEU:HA	4:VE:95:GLY:HA3	1.90	0.54
4:VE:125:LEU:HD13	4:VE:128:LEU:HD21	1.88	0.54
3:VF:235:GLY:O	3:VF:238:THR:OG1	2.20	0.54
4:VI:263:PRO:HD3	3:VJ:396:HIS:CD2	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VJ:11:GLN:HE21	39:VJ:501:GTP:H3'	1.71	0.54
3:VJ:130:LEU:HB2	3:VJ:162:ARG:HH11	1.73	0.54
3:WB:235:GLY:O	3:WB:238:THR:OG1	2.21	0.54
4:WC:154:MET:HA	4:WC:157:LEU:HG	1.90	0.54
3:WD:70:PRO:HG3	35:XI:74:LYS:HD2	1.89	0.54
4:WE:9:VAL:HA	4:WE:68:VAL:HG23	1.90	0.54
3:WH:5:VAL:HG22	3:WH:62:ARG:HB3	1.90	0.54
3:WH:16:ILE:HD13	3:WH:226:ASN:ND2	2.23	0.54
4:WK:3:GLU:HB3	4:WK:51:THR:HA	1.88	0.54
4:WK:36:MET:HE3	4:WK:37:PRO:HD2	1.90	0.54
35:XM:153:LEU:HD23	35:XM:156:LEU:HD12	1.89	0.54
37:YA:30:GLU:OE1	37:YA:33:ARG:NH2	2.41	0.54
37:YI:26:ILE:O	37:YI:30:GLU:N	2.39	0.54
37:YT:143:ILE:HG23	37:YT:147:PHE:CE2	2.42	0.54
36:Z:341:ILE:O	36:Z:345:ASP:N	2.32	0.54
38:a:81:GLU:O	38:a:85:TYR:N	2.30	0.54
2:A2:384:TYR:O	2:A2:388:VAL:HG12	2.07	0.54
3:AB:72:THR:O	3:AB:75:SER:OG	2.23	0.54
3:AB:235:GLY:O	3:AB:238:THR:OG1	2.24	0.54
3:AF:374:ILE:HA	3:AF:377:LEU:HD13	1.90	0.54
4:AI:427:ALA:HA	4:AI:430:LYS:HG2	1.90	0.54
3:AJ:206:ALA:O	3:AJ:210:ILE:HG12	2.08	0.54
4:AK:51:THR:HG23	4:AK:52:PHE:CD2	2.43	0.54
4:AK:331:ALA:O	4:AK:334:THR:OG1	2.25	0.54
4:AM:282:TYR:CD1	13:G3:85:PHE:HB2	2.43	0.54
5:B4:202:LYS:HD2	5:B4:205:PRO:CA	2.37	0.54
4:BE:6:SER:HA	4:BE:136:LEU:HB2	1.88	0.54
3:BF:132:GLY:HA2	3:BF:162:ARG:HB3	1.89	0.54
3:BF:350:LYS:HE3	4:BG:181:VAL:H	1.72	0.54
4:BI:89:PRO:HD2	4:CI:280:LYS:HZ3	1.73	0.54
3:BJ:209:ASP:O	3:BJ:213:ARG:HG2	2.08	0.54
7:C1:284:PHE:HE1	7:C2:401:ASP:HB3	1.72	0.54
7:C9:415:MET:O	7:C9:419:ARG:HG2	2.08	0.54
7:C9:480:TYR:CD1	7:C9:481:PRO:HD2	2.43	0.54
4:CC:139:HIS:CE1	4:CC:168:GLU:HB3	2.41	0.54
4:CC:396:ASP:HB3	4:CC:422:ARG:NH2	2.23	0.54
3:CD:11:GLN:HE21	39:CD:501:GTP:H3'	1.73	0.54
3:CD:70:PRO:HA	3:CD:73:MET:HG2	1.89	0.54
3:CF:218:THR:OG1	3:CF:219:THR:N	2.41	0.54
3:CJ:83:GLN:O	3:CJ:86:ARG:NH2	2.41	0.54
3:CL:250:LEU:HD13	3:CL:253:LEU:HD12	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Cb:394:LYS:HD3	7:Cb:397:GLN:NE2	2.22	0.54
7:Cc:394:LYS:HD3	7:Cd:283:TYR:CZ	2.43	0.54
8:D7:388:LEU:O	8:D7:392:LYS:HG2	2.08	0.54
4:DA:287:SER:OG	4:DA:290:GLU:OE1	2.22	0.54
4:DA:316:CYS:HB3	4:DA:378:LEU:HB3	1.89	0.54
3:DD:372:THR:HB	3:DD:375:GLN:HE22	1.73	0.54
4:DE:11:GLN:O	4:DE:14:VAL:HG22	2.08	0.54
3:DH:247:ASN:HB3	3:DH:252:LYS:HG2	1.88	0.54
4:DI:316:CYS:HB3	4:DI:378:LEU:HB3	1.88	0.54
3:DJ:134:GLN:HA	3:DJ:165:ASN:HB3	1.90	0.54
10:E4:44:LYS:NZ	10:E4:45:GLN:O	2.36	0.54
4:EA:104:ALA:HA	4:EA:107:HIS:HB3	1.89	0.54
3:EB:375:GLN:HE21	3:EB:422:TYR:HB3	1.72	0.54
4:EC:102:ASN:HB3	4:EC:105:ARG:HB2	1.89	0.54
3:ED:415:MET:O	3:ED:419:VAL:HG23	2.07	0.54
3:EH:217:LEU:O	3:EH:219:THR:N	2.41	0.54
4:EI:325:PRO:HA	4:EI:328:VAL:HB	1.89	0.54
3:EJ:28:HIS:ND1	3:EJ:43:GLN:HB2	2.23	0.54
3:EL:305:PRO:HB2	3:EL:310:TYR:HE1	1.72	0.54
3:EL:318:ARG:HA	3:EL:354:CYS:HB3	1.90	0.54
3:EL:334:GLN:O	3:EL:338:SER:OG	2.20	0.54
3:EL:374:ILE:HA	3:EL:377:LEU:HD13	1.90	0.54
11:F3:409:ARG:NH1	11:F4:289:THR:O	2.40	0.54
11:F3:425:ASP:HA	11:F3:428:GLN:HE21	1.73	0.54
11:F6:166:GLU:O	11:F6:170:MET:HG2	2.07	0.54
11:F7:110:ARG:HH12	11:F8:364:ILE:HA	1.73	0.54
11:F8:467:ASP:HA	11:F8:470:MET:HB2	1.90	0.54
11:F9:409:ARG:HD2	11:F9:413:GLN:HG3	1.90	0.54
4:FA:331:ALA:O	4:FA:334:THR:OG1	2.26	0.54
3:FB:12:CYS:HA	39:FB:501:GTP:N2	2.23	0.54
3:FD:47:ILE:HG21	3:FD:59:TYR:CE2	2.43	0.54
4:FE:11:GLN:O	4:FE:14:VAL:HG22	2.07	0.54
4:FK:115:VAL:HA	4:FK:118:VAL:HG22	1.89	0.54
3:FL:235:GLY:HA3	3:FL:366:THR:HG21	1.89	0.54
11:Fb:146:LEU:HD13	11:Fb:149:LEU:HD12	1.88	0.54
11:Fb:151:PHE:O	11:Fb:154:SER:OG	2.17	0.54
11:Fe:190:VAL:HG13	11:Fe:472:MET:SD	2.48	0.54
11:Ff:119:ASP:HB2	11:Fg:433:ARG:NH2	2.23	0.54
13:G3:442:TYR:HD1	13:G3:449:ILE:HG13	1.73	0.54
14:G5:12:ASN:OD1	14:G5:13:ARG:N	2.41	0.54
14:G5:633:GLU:HB3	14:G5:699:TRP:CZ2	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G6:734:ARG:NE	14:G6:735:TYR:H	1.98	0.54
4:GE:331:ALA:O	4:GE:334:THR:OG1	2.26	0.54
4:GG:88:HIS:HB3	4:GG:91:GLN:HG3	1.89	0.54
4:HA:245:ASP:O	4:HA:356:ASN:ND2	2.40	0.54
4:HE:105:ARG:O	4:HE:109:THR:OG1	2.21	0.54
3:HF:176:SER:O	3:HF:178:THR:N	2.41	0.54
3:HF:385:PHE:HZ	3:HF:408:PHE:HB3	1.73	0.54
4:HG:141:PHE:HB2	4:HG:173:PRO:HD3	1.90	0.54
4:HG:274:PRO:HG3	4:HG:374:ALA:HA	1.90	0.54
3:HJ:309:ARG:H	3:HJ:372:THR:HG1	1.53	0.54
17:I3:59:LYS:HA	17:I3:62:ALA:HB3	1.88	0.54
3:IB:152:ILE:O	3:IB:156:ARG:HG2	2.08	0.54
3:IF:204:ASN:OD1	3:IF:205:GLU:N	2.41	0.54
4:IG:133:GLN:HB3	4:IG:252:LEU:HD11	1.88	0.54
4:IG:210:TYR:HE1	4:IG:227:LEU:HD11	1.73	0.54
3:IH:379:LYS:O	3:IH:382:SER:OG	2.17	0.54
4:II:25:CYS:HB2	4:II:30:ILE:HB	1.89	0.54
4:II:356:ASN:OD1	4:II:358:GLN:HB3	2.08	0.54
4:IM:52:PHE:HE2	4:IM:243:ARG:HH11	1.55	0.54
4:IM:220:GLU:O	4:IM:221:ARG:NE	2.40	0.54
19:J2:33:SER:HA	19:J2:104:HIS:HB2	1.90	0.54
4:JA:33:ASP:O	4:JA:60:LYS:NZ	2.35	0.54
3:JB:97:ALA:HA	3:JB:103:LYS:NZ	2.23	0.54
4:JI:319:TYR:HB2	4:JI:355:ILE:HD13	1.90	0.54
3:JL:317:PHE:HB3	3:JL:321:MET:HE3	1.90	0.54
21:K4:476:GLN:HG2	4:KK:163:LYS:HE2	1.90	0.54
4:KC:401:LYS:C	4:KC:402:ARG:HD3	2.33	0.54
3:KD:322:SER:OG	3:KD:323:MET:SD	2.66	0.54
4:KE:105:ARG:O	4:KE:109:THR:OG1	2.24	0.54
4:KE:326:LYS:HD2	3:KF:208:TYR:CE2	2.43	0.54
4:KE:392:ASP:OD1	4:KE:393:HIS:N	2.41	0.54
4:KG:349:THR:HG23	3:KH:179:VAL:HG12	1.89	0.54
3:KH:258:VAL:O	4:KI:407:TRP:NE1	2.39	0.54
3:KH:324:LYS:HD2	4:KI:221:ARG:HA	1.90	0.54
4:KI:154:MET:HE3	4:KI:194:THR:HG22	1.89	0.54
3:KJ:28:HIS:O	3:KJ:43:GLN:NE2	2.40	0.54
3:KJ:286:VAL:HG11	3:KJ:325:GLU:HB2	1.88	0.54
3:KJ:323:MET:HE3	4:KK:224:TYR:CD1	2.43	0.54
3:KL:120:VAL:O	3:KL:124:ALA:N	2.33	0.54
3:KL:384:GLN:O	3:KL:388:MET:HG2	2.08	0.54
20:L:208:GLU:OE1	20:L:208:GLU:N	2.31	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:L2:207:VAL:HB	22:L2:234:MET:HE2	1.89	0.54
3:LB:19:LYS:NZ	3:LB:223:GLY:O	2.41	0.54
3:LB:47:ILE:HG13	3:LB:51:TYR:HB2	1.88	0.54
3:LD:150:LEU:O	3:LD:153:SER:OG	2.21	0.54
3:LD:268:PRO:HD2	3:LD:301:ALA:HB2	1.90	0.54
4:LE:172:TYR:N	4:LE:204:VAL:O	2.38	0.54
4:LI:88:HIS:CE1	4:LI:121:ARG:HH22	2.24	0.54
3:LJ:286:VAL:HG21	3:LJ:325:GLU:HG3	1.90	0.54
3:LJ:415:MET:O	3:LJ:419:VAL:HG23	2.08	0.54
4:LK:132:LEU:HD12	4:LK:132:LEU:O	2.08	0.54
23:M:67:VAL:HA	23:M:70:ASN:HD22	1.73	0.54
4:MC:3:GLU:N	4:MC:133:GLN:OE1	2.41	0.54
4:ME:423:GLU:HA	4:ME:426:ALA:HB3	1.89	0.54
3:MF:19:LYS:NZ	3:MF:227:HIS:HB2	2.23	0.54
3:MH:118:ASP:OD1	3:MH:121:ARG:NH1	2.41	0.54
4:MM:12:ALA:HB1	39:MM:501:GTP:C2	2.43	0.54
3:NF:73:MET:HA	3:NF:76:VAL:HG22	1.88	0.54
4:NG:91:GLN:HG3	4:NG:121:ARG:HH21	1.72	0.54
3:NJ:234:SER:O	3:NJ:238:THR:HG23	2.08	0.54
4:NK:1:MET:SD	4:NK:2:ARG:N	2.81	0.54
27:O:40:ASP:OD2	27:O:43:ALA:N	2.39	0.54
28:O2:104:ASN:OD1	28:O2:105:ALA:N	2.38	0.54
4:OA:30:ILE:HG13	4:OA:53:PHE:HE2	1.72	0.54
4:OA:287:SER:OG	4:OA:290:GLU:OE1	2.23	0.54
3:OB:2:ARG:HB3	3:OB:131:GLN:NE2	2.22	0.54
3:OD:2:ARG:HA	3:OD:129:CYS:O	2.08	0.54
3:OD:118:ASP:OD1	3:OD:121:ARG:NH1	2.41	0.54
3:OF:246:LEU:HB2	3:OF:352:ALA:HB1	1.89	0.54
4:OG:49:PHE:O	4:OG:53:PHE:N	2.40	0.54
4:OG:139:HIS:CD2	4:OG:170:ALA:HB2	2.43	0.54
27:P:168:GLY:O	27:P:172:LYS:N	2.30	0.54
3:PD:375:GLN:HA	3:PD:378:PHE:CZ	2.43	0.54
3:PH:28:HIS:ND1	3:PH:43:GLN:HB2	2.23	0.54
3:PH:419:VAL:O	3:PH:423:GLN:HG2	2.07	0.54
4:PI:216:ASN:ND2	4:PI:275:VAL:O	2.41	0.54
4:PM:401:LYS:C	4:PM:402:ARG:HD3	2.33	0.54
3:QB:306:ARG:O	3:QB:306:ARG:NE	2.40	0.54
4:QG:396:ASP:OD1	4:QG:397:LEU:N	2.41	0.54
3:QJ:13:GLY:HA2	3:QJ:16:ILE:HB	1.90	0.54
4:QK:34:GLY:HA2	4:QK:86:LEU:HD21	1.90	0.54
3:QL:178:THR:HB	3:QL:181:GLU:HB2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RB:379:LYS:O	3:RB:382:SER:OG	2.24	0.54
3:RD:269:GLY:N	3:RD:367:PHE:O	2.41	0.54
4:RE:329:ASN:HA	4:RE:332:ILE:HG12	1.89	0.54
3:RF:286:VAL:HG21	3:RF:325:GLU:HG3	1.90	0.54
3:RF:306:ARG:NE	3:RF:306:ARG:O	2.40	0.54
3:RH:182:PRO:O	3:RH:186:THR:HG23	2.07	0.54
3:RH:240:LEU:HD13	3:RH:248:ALA:HB1	1.90	0.54
4:RI:34:GLY:HA2	4:RI:86:LEU:HD11	1.90	0.54
3:RJ:12:CYS:HA	39:RJ:501:GTP:HN22	1.72	0.54
4:SC:89:PRO:HD2	4:TC:280:LYS:HZ3	1.73	0.54
3:SH:3:GLU:OE2	3:SH:127:CYS:HB2	2.08	0.54
4:SK:396:ASP:OD1	4:SK:397:LEU:N	2.41	0.54
3:TB:139:LEU:N	3:TB:168:SER:OG	2.41	0.54
4:TC:73:THR:OG1	4:TC:74:VAL:N	2.41	0.54
4:TC:89:PRO:HD2	4:UA:280:LYS:HZ3	1.73	0.54
4:TE:89:PRO:HD2	4:UC:280:LYS:NZ	2.23	0.54
4:TG:51:THR:HG23	4:TG:52:PHE:CD2	2.43	0.54
4:TG:346:TRP:HE1	3:TH:391:ARG:HH11	1.55	0.54
3:TH:384:GLN:O	3:TH:388:MET:HG2	2.08	0.54
4:TI:161:TYR:O	4:TI:166:LYS:NZ	2.37	0.54
4:UA:236:SER:O	4:UA:243:ARG:NH2	2.33	0.54
4:UC:1:MET:SD	4:UC:2:ARG:N	2.81	0.54
3:UF:324:LYS:HD2	4:UG:221:ARG:HA	1.90	0.54
4:UI:401:LYS:C	4:UI:402:ARG:HD3	2.32	0.54
4:UK:16:ILE:HD11	4:UK:138:PHE:HB3	1.89	0.54
4:VK:33:ASP:OD1	4:VK:34:GLY:N	2.40	0.54
4:WC:427:ALA:O	4:WC:431:ASP:N	2.38	0.54
3:WD:94:GLN:O	35:XI:73:SER:N	2.40	0.54
4:WG:12:ALA:HB2	39:WG:501:GTP:H5”	1.90	0.54
3:WJ:282:ARG:NH2	3:WJ:292:GLN:OE1	2.26	0.54
3:WL:28:HIS:ND1	3:WL:43:GLN:HB2	2.23	0.54
34:XF:113:ARG:NE	34:XF:114:VAL:H	2.04	0.54
34:XF:170:ARG:NH2	34:XF:176:GLU:OE2	2.40	0.54
34:XG:81:LYS:HB2	34:XG:129:TRP:CE2	2.42	0.54
35:XI:226:ILE:HA	35:XI:229:LYS:HB3	1.89	0.54
37:YG:4:VAL:HG13	37:YG:79:LEU:HD22	1.88	0.54
37:YQ:99:LYS:NZ	37:YQ:147:PHE:HB3	2.22	0.54
37:YT:68:MET:O	37:YT:72:ILE:HG12	2.07	0.54
2:A4:208:GLU:HG2	2:A4:210:ASN:HB2	1.90	0.54
3:AD:5:VAL:HG23	3:AD:130:LEU:HD21	1.89	0.54
4:AE:187:SER:O	4:AE:190:THR:OG1	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AH:209:ASP:O	3:AH:213:ARG:HG2	2.08	0.54
4:AI:81:GLY:O	4:AI:84:ARG:NH1	2.41	0.54
4:AI:161:TYR:O	4:AI:166:LYS:NZ	2.39	0.54
3:AJ:12:CYS:SG	39:AJ:501:GTP:H5'	2.47	0.54
5:B1:260:ALA:HA	5:B1:263:PHE:HD2	1.72	0.54
5:B1:277:SER:HA	5:B1:280:LYS:HE2	1.89	0.54
5:B1:356:LEU:O	5:B1:360:GLN:HG2	2.07	0.54
5:B3:334:THR:O	5:B3:338:LEU:HG	2.08	0.54
5:B4:167:GLU:O	5:B4:170:GLN:NE2	2.41	0.54
5:B7:11:ARG:HG2	5:B8:130:ARG:HH22	1.73	0.54
5:B8:134:GLU:O	5:B8:138:LEU:HG	2.07	0.54
3:BD:16:ILE:HD13	3:BD:226:ASN:ND2	2.23	0.54
4:BG:1:MET:N	4:BG:130:THR:OG1	2.40	0.54
3:BH:350:LYS:HE3	4:BI:180:ALA:HA	1.90	0.54
4:BI:392:ASP:OD1	4:BI:393:HIS:N	2.41	0.54
4:BK:273:ALA:N	4:BK:377:MET:HE1	2.23	0.54
4:BK:287:SER:OG	4:BK:290:GLU:OE1	2.25	0.54
7:C1:296:VAL:HA	7:C2:413:ARG:HB2	1.90	0.54
7:C3:195:SER:O	7:C3:199:LEU:HG	2.08	0.54
7:C3:205:ARG:HE	7:C3:210:LEU:HA	1.73	0.54
7:C4:284:PHE:CZ	7:C5:400:LEU:HD22	2.43	0.54
3:CB:123:GLU:O	3:CB:126:SER:OG	2.22	0.54
4:CE:22:GLU:O	4:CE:26:LEU:HD23	2.08	0.54
3:CF:91:VAL:HG11	3:CF:116:VAL:HG12	1.89	0.54
3:CF:136:THR:HA	3:CF:167:PHE:HB2	1.89	0.54
3:CF:269:GLY:HA3	3:CF:367:PHE:HB3	1.89	0.54
3:CF:412:GLU:HA	3:CF:415:MET:HE2	1.91	0.54
3:CH:81:PHE:O	3:CH:84:ILE:HG22	2.07	0.54
3:CH:139:LEU:N	3:CH:168:SER:OG	2.40	0.54
3:CH:299:MET:SD	3:CH:301:ALA:N	2.70	0.54
4:CI:116:ASP:N	4:CI:116:ASP:OD1	2.41	0.54
7:Cd:118:GLU:OE1	7:Cd:121:ARG:NH2	2.40	0.54
8:D3:327:THR:O	8:D3:330:THR:OG1	2.24	0.54
8:D4:314:SER:O	8:D4:318:LEU:HG	2.07	0.54
3:DB:46:ARG:HH22	4:DC:73:THR:HG23	1.73	0.54
3:DB:217:LEU:O	3:DB:219:THR:N	2.41	0.54
3:DB:218:THR:OG1	3:DB:219:THR:N	2.38	0.54
4:DE:258:ASN:HA	3:DF:394:PHE:HE2	1.73	0.54
3:DJ:325:GLU:HA	3:DJ:328:GLU:HG3	1.90	0.54
4:DK:88:HIS:HA	4:EK:283:HIS:HE1	1.73	0.54
4:DK:185:TYR:CZ	4:DK:398:MET:HE1	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EA:279:GLU:OE1	4:EA:279:GLU:N	2.36	0.54
4:EG:236:SER:O	4:EG:243:ARG:NH2	2.29	0.54
11:F2:427:LEU:HG	11:F2:431:LYS:NZ	2.23	0.54
11:F6:307:ALA:O	11:F6:311:ARG:HG3	2.08	0.54
4:FA:6:SER:HA	4:FA:136:LEU:HB2	1.90	0.54
3:FD:3:GLU:HA	3:FD:49:VAL:HG23	1.89	0.54
3:FD:119:VAL:HA	3:FD:122:LYS:HE3	1.89	0.54
4:FE:324:VAL:HG21	3:FF:219:THR:HG22	1.90	0.54
3:FH:16:ILE:O	3:FH:20:PHE:N	2.29	0.54
11:Fb:350:GLU:HG2	11:Fb:462:LEU:HD12	1.89	0.54
11:Fc:112:TRP:O	11:Fc:116:LEU:HG	2.08	0.54
11:Fe:470:MET:HE3	11:Fe:473:ARG:HB3	1.90	0.54
11:Ff:324:LEU:O	11:Ff:328:LEU:HG	2.07	0.54
11:Ff:366:GLN:O	11:Ff:370:GLN:HG2	2.09	0.54
12:G:124:GLU:HA	12:G:127:LYS:HE3	1.88	0.54
13:G2:22:LYS:HB3	13:G2:25:PHE:CE1	2.43	0.54
13:G3:264:ILE:HD12	13:G3:275:ILE:HG12	1.89	0.54
14:G4:361:LYS:O	14:G4:365:ARG:HG3	2.08	0.54
14:G4:715:GLU:O	14:G4:720:VAL:HG21	2.08	0.54
14:G5:226:ASP:O	14:G5:228:LYS:NZ	2.38	0.54
14:G6:25:HIS:CE1	14:G6:35:LEU:HD11	2.43	0.54
14:G6:178:LEU:O	14:G6:182:GLY:N	2.37	0.54
4:GE:103:TYR:HB2	4:GE:186:ASN:HB2	1.90	0.54
3:GF:247:ASN:HB3	3:GF:252:LYS:HG2	1.90	0.54
4:GI:19:ALA:O	4:GI:23:LEU:N	2.30	0.54
4:GI:301:GLN:OE1	4:GI:301:GLN:N	2.40	0.54
3:GJ:319:GLY:HA2	3:GJ:357:PRO:HG3	1.90	0.54
3:GL:372:THR:HB	3:GL:375:GLN:HE22	1.71	0.54
15:H3:305:ARG:O	15:H3:308:TYR:HB3	2.08	0.54
3:HB:347:ASN:HB3	4:HC:178:SER:HB3	1.88	0.54
4:HC:144:GLY:N	39:HC:501:GTP:O2B	2.40	0.54
3:HF:324:LYS:HE3	4:HG:210:TYR:HE2	1.73	0.54
4:HG:419:SER:HA	4:HG:422:ARG:HE	1.73	0.54
3:HH:52:ASN:OD1	3:HH:62:ARG:NH1	2.40	0.54
3:HH:209:ASP:O	3:HH:213:ARG:HG2	2.08	0.54
3:HJ:261:PRO:HD3	4:HK:406:HIS:CG	2.43	0.54
4:IA:362:VAL:HA	4:IA:368:LEU:HD11	1.90	0.54
3:ID:28:HIS:ND1	3:ID:43:GLN:HB2	2.23	0.54
4:IE:236:SER:O	4:IE:243:ARG:NH2	2.34	0.54
3:IF:4:ILE:HD11	3:IF:131:GLN:HB2	1.89	0.54
3:IH:218:THR:OG1	3:IH:219:THR:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IJ:12:CYS:HB3	39:IJ:501:GTP:H5'	1.90	0.54
3:IL:200:TYR:CE2	3:IL:233:MET:HE1	2.42	0.54
4:JA:262:TYR:HE1	3:JB:393:ALA:HA	1.71	0.54
3:JB:318:ARG:NE	3:JB:356:ILE:O	2.34	0.54
4:JE:54:SER:N	4:JE:62:VAL:O	2.41	0.54
4:JE:118:VAL:HA	4:JE:121:ARG:HG2	1.88	0.54
3:JJ:28:HIS:O	3:JJ:43:GLN:NE2	2.41	0.54
3:JJ:285:THR:O	3:JJ:288:GLU:HG3	2.08	0.54
21:K2:267:ILE:HG23	21:K2:301:LYS:HA	1.88	0.54
21:K3:357:MET:O	21:K3:361:ILE:HG13	2.08	0.54
21:K3:368:ASN:O	21:K3:371:MET:HG3	2.07	0.54
21:K3:373:VAL:HG13	4:KI:159:VAL:HG11	1.89	0.54
4:KA:223:THR:OG1	4:KA:225:THR:OG1	2.23	0.54
3:KD:273:LEU:H	3:KD:292:GLN:HE22	1.56	0.54
4:KE:402:ARG:CZ	31:R1:125:ARG:HD2	2.38	0.54
3:KJ:415:MET:O	3:KJ:419:VAL:HG23	2.08	0.54
4:KK:141:PHE:HB2	4:KK:173:PRO:HD3	1.90	0.54
22:L1:28:THR:HG22	22:L1:32:ARG:HG3	1.90	0.54
22:L3:230:LEU:O	22:L3:233:GLU:HG2	2.08	0.54
22:L4:69:GLU:CD	22:L4:70:LYS:H	2.16	0.54
4:LA:52:PHE:HZ	4:LA:239:THR:HB	1.73	0.54
3:LD:250:LEU:HD13	3:LD:253:LEU:HD12	1.89	0.54
4:LE:272:TYR:CZ	4:LE:274:PRO:HG2	2.43	0.54
3:LF:268:PRO:HD2	3:LF:301:ALA:HB2	1.89	0.54
4:LG:295:CYS:HB2	4:LG:377:MET:HE3	1.89	0.54
4:LI:273:ALA:N	4:LI:377:MET:HE1	2.23	0.54
4:LK:327:ASP:N	4:LK:327:ASP:OD1	2.39	0.54
4:MC:339:ARG:HB3	28:O1:107:ASN:HA	1.89	0.54
4:MI:419:SER:HA	4:MI:422:ARG:HH21	1.73	0.54
3:ML:101:TRP:CE3	3:ML:187:LEU:HD13	2.42	0.54
3:ML:412:GLU:OE1	3:ML:416:ASN:ND2	2.41	0.54
4:MM:223:THR:OG1	4:MM:225:THR:OG1	2.21	0.54
4:MM:256:GLN:O	4:MM:260:VAL:HG12	2.08	0.54
4:NA:207:GLU:HB2	4:NA:304:LYS:NZ	2.23	0.54
4:NA:208:ALA:H	4:NA:304:LYS:HZ1	1.55	0.54
3:NB:151:LEU:HD22	3:NB:154:LYS:HZ1	1.73	0.54
3:NB:217:LEU:HD11	3:NB:220:PRO:HB3	1.90	0.54
3:OB:218:THR:OG1	3:OB:219:THR:N	2.41	0.54
4:OC:84:ARG:HA	4:OC:87:PHE:HD2	1.73	0.54
4:OE:438:ASP:HA	3:OF:391:ARG:HH12	1.73	0.54
3:OF:16:ILE:HD13	3:OF:226:ASN:ND2	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:P:65:PHE:O	27:P:69:MET:HG2	2.08	0.54
3:PB:12:CYS:HA	39:PB:501:GTP:N2	2.22	0.54
4:PC:11:GLN:O	4:PC:14:VAL:HG22	2.08	0.54
4:PK:33:ASP:OD1	4:PK:34:GLY:N	2.40	0.54
4:PK:105:ARG:O	4:PK:109:THR:OG1	2.24	0.54
4:PM:371:VAL:HG11	4:PM:374:ALA:HB2	1.90	0.54
3:QD:421:GLU:HG2	3:QD:425:TYR:HE2	1.73	0.54
4:QE:392:ASP:OD1	4:QE:393:HIS:N	2.41	0.54
3:QJ:412:GLU:HA	3:QJ:415:MET:HE2	1.90	0.54
4:QM:102:ASN:HB3	4:QM:105:ARG:HB2	1.89	0.54
4:QM:318:LEU:O	4:QM:375:VAL:HA	2.08	0.54
31:R3:116:LEU:HB2	31:R3:148:ARG:HB3	1.90	0.54
3:RB:302:ALA:HB1	3:RB:377:LEU:HD11	1.90	0.54
4:RC:1:MET:SD	4:RC:2:ARG:N	2.81	0.54
3:RF:189:VAL:HA	3:RF:192:LEU:HD12	1.88	0.54
3:RF:266:PHE:HB3	3:RF:368:ILE:HD11	1.89	0.54
4:RG:288:VAL:HG11	4:RG:327:ASP:HB2	1.89	0.54
3:RL:267:MET:O	3:RL:369:GLY:N	2.36	0.54
3:SB:211:CYS:HA	3:SB:215:LEU:HB2	1.90	0.54
3:SD:309:ARG:H	3:SD:372:THR:HG1	1.55	0.54
3:SD:415:MET:O	3:SD:419:VAL:HG23	2.08	0.54
3:SF:246:LEU:HB2	3:SF:352:ALA:HB1	1.90	0.54
3:SH:378:PHE:CD1	3:SH:419:VAL:HG22	2.43	0.54
4:SI:395:PHE:HA	4:SI:398:MET:HG2	1.89	0.54
3:SJ:28:HIS:O	3:SJ:43:GLN:NE2	2.41	0.54
4:SK:103:TYR:HB2	4:SK:186:ASN:HB2	1.89	0.54
3:TD:52:ASN:OD1	3:TD:62:ARG:NH1	2.40	0.54
4:TK:321:GLY:N	4:TK:356:ASN:O	2.27	0.54
3:TL:218:THR:OG1	3:TL:219:THR:N	2.39	0.54
3:UB:3:GLU:OE2	3:UB:127:CYS:HB2	2.08	0.54
4:UE:11:GLN:HB2	4:UE:74:VAL:HG21	1.90	0.54
3:UF:166:THR:OG1	3:UF:198:GLU:O	2.25	0.54
3:UF:172:SER:OG	3:UF:205:GLU:OE2	2.23	0.54
4:UG:46:ASP:OD1	4:UG:50:ASN:ND2	2.40	0.54
4:UG:206:ASN:HA	4:UG:209:ILE:HD12	1.90	0.54
4:UG:316:CYS:HB3	4:UG:378:LEU:HB2	1.89	0.54
4:UI:12:ALA:HB1	39:UI:501:GTP:C2	2.43	0.54
3:UJ:12:CYS:HA	39:UJ:501:GTP:HN22	1.73	0.54
3:VB:117:LEU:HD11	3:VB:154:LYS:HD2	1.90	0.54
4:VC:98:ASP:O	4:VC:105:ARG:NH2	2.31	0.54
3:VL:362:LYS:HD3	3:VL:363:MET:HG3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:W:166:GLU:OE1	33:W:170:ARG:NH1	2.40	0.54
4:WC:256:GLN:O	4:WC:260:VAL:HG12	2.08	0.54
4:WC:321:GLY:N	4:WC:356:ASN:O	2.29	0.54
4:WC:333:ALA:HA	4:WC:336:LYS:HD2	1.90	0.54
4:WE:263:PRO:HD3	3:WF:396:HIS:CD2	2.43	0.54
3:WF:11:GLN:HE21	39:WF:501:GTP:H3'	1.72	0.54
4:WI:102:ASN:HB3	4:WI:105:ARG:HB2	1.89	0.54
3:WJ:324:LYS:NZ	4:WK:222:PRO:O	2.39	0.54
3:WJ:419:VAL:O	3:WJ:423:GLN:NE2	2.41	0.54
37:YK:110:LEU:HD23	37:YK:140:LEU:HB2	1.89	0.54
37:YM:84:GLU:OE2	37:YM:101:LYS:NZ	2.40	0.54
37:YO:33:ARG:NH2	37:YO:134:TYR:OH	2.41	0.54
37:YR:127:CYS:SG	37:YR:128:ASP:N	2.71	0.54
37:YV:33:ARG:NH2	37:YV:134:TYR:OH	2.41	0.54
2:A2:222:ASN:O	2:A2:226:GLU:HG2	2.08	0.53
2:A2:325:ASN:CG	2:A2:326:VAL:H	2.16	0.53
2:A3:353:GLU:OE2	2:A3:357:GLN:NE2	2.41	0.53
2:A4:97:ARG:HD3	10:E4:76:TRP:CZ2	2.32	0.53
4:AE:33:ASP:OD1	4:AE:34:GLY:N	2.41	0.53
4:AE:51:THR:HG23	4:AE:52:PHE:CD2	2.43	0.53
4:AE:329:ASN:HA	4:AE:332:ILE:HG12	1.90	0.53
3:AF:286:VAL:HG21	3:AF:325:GLU:HG3	1.88	0.53
3:AF:380:ARG:O	3:AF:384:GLN:HG2	2.08	0.53
3:AH:286:VAL:HG21	3:AH:325:GLU:HG3	1.90	0.53
4:AI:88:HIS:HB3	4:AI:91:GLN:CG	2.38	0.53
3:AJ:384:GLN:O	3:AJ:388:MET:HG2	2.07	0.53
3:AL:111:GLU:HG2	3:AL:112:LEU:HD12	1.89	0.53
4:AM:402:ARG:NH2	35:XM:233:PRO:HG2	2.18	0.53
1:B:348:ARG:NH1	1:B:349:GLU:OE2	2.41	0.53
5:B3:134:GLU:O	5:B3:138:LEU:HG	2.07	0.53
5:B3:363:LEU:HG	5:B3:367:PHE:CE2	2.44	0.53
5:B4:7:LYS:NZ	8:D3:329:ILE:HD12	2.23	0.53
5:B9:369:HIS:O	5:B9:373:ILE:HG12	2.07	0.53
4:BC:12:ALA:HB2	39:BC:501:GTP:H5"	1.90	0.53
4:BC:206:ASN:HA	4:BC:209:ILE:HD12	1.91	0.53
3:BD:375:GLN:HA	3:BD:378:PHE:CZ	2.43	0.53
3:BF:324:LYS:HE2	4:BG:222:PRO:HD2	1.90	0.53
3:BH:3:GLU:OE2	3:BH:129:CYS:N	2.41	0.53
4:BI:70:LEU:HB3	4:BI:97:GLU:O	2.08	0.53
3:BJ:52:ASN:OD1	3:BJ:62:ARG:NH1	2.39	0.53
3:BJ:415:MET:O	3:BJ:419:VAL:HG23	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BK:146:GLY:N	39:BK:501:GTP:O2B	2.39	0.53
4:BM:30:ILE:HG13	4:BM:53:PHE:HE2	1.72	0.53
7:C3:98:ASP:OD1	7:C3:99:TRP:N	2.40	0.53
7:C4:318:SER:O	7:C4:322:ARG:HG3	2.08	0.53
7:C9:179:ARG:O	7:C9:183:ARG:HG2	2.08	0.53
4:CE:322:ASP:OD2	4:CE:373:ARG:NH2	2.41	0.53
4:CG:285:GLN:HE22	4:CG:287:SER:HB3	1.72	0.53
4:CI:166:LYS:N	4:CI:199:ASP:OD2	2.40	0.53
3:CL:4:ILE:HD11	3:CL:131:GLN:HB2	1.90	0.53
4:CM:53:PHE:O	4:CM:64:ARG:NH1	2.42	0.53
7:Cc:167:MET:HB3	7:Cc:251:GLN:HE21	1.73	0.53
7:Cc:309:LEU:HD23	7:Cc:312:GLN:NE2	2.22	0.53
7:Cc:406:ARG:NH1	7:Cc:412:CYS:H	2.06	0.53
7:Cd:220:LEU:HB2	8:D4:25:LYS:HD2	1.90	0.53
8:D3:80:GLU:C	8:D4:394:LYS:HZ3	2.17	0.53
8:D3:263:ASP:HA	8:D3:266:LEU:HD12	1.90	0.53
8:D3:435:ASN:HB3	27:Q:9:LEU:HD12	1.89	0.53
3:DB:101:TRP:HB2	3:DB:184:ASN:HD22	1.73	0.53
4:DE:52:PHE:HZ	4:DE:239:THR:HB	1.72	0.53
4:DE:262:TYR:OH	3:DF:391:ARG:O	2.26	0.53
4:DE:306:ASP:HB3	4:DE:309:HIS:HD1	1.72	0.53
3:DF:379:LYS:HZ2	3:DF:419:VAL:HG13	1.73	0.53
4:DG:34:GLY:HA2	4:DG:86:LEU:HD21	1.90	0.53
3:DH:415:MET:O	3:DH:419:VAL:HG23	2.08	0.53
4:DI:272:TYR:CZ	4:DI:274:PRO:HG2	2.43	0.53
4:EA:262:TYR:OH	3:EB:391:ARG:O	2.25	0.53
4:EC:206:ASN:HA	4:EC:209:ILE:HD12	1.90	0.53
3:EF:250:LEU:HD13	3:EF:253:LEU:HD12	1.90	0.53
3:EH:13:GLY:HA2	3:EH:16:ILE:HB	1.89	0.53
3:EH:67:ASP:OD2	3:EH:72:THR:OG1	2.23	0.53
3:EJ:12:CYS:HA	39:EJ:501:GTP:N2	2.22	0.53
3:EJ:380:ARG:O	3:EJ:384:GLN:HG2	2.08	0.53
4:EK:122:ILE:O	4:EK:126:ALA:N	2.41	0.53
11:F2:126:ASP:OD1	11:F2:127:LYS:N	2.41	0.53
11:F2:415:ARG:HB3	11:F3:138:THR:HG22	1.90	0.53
11:F3:100:ASP:HA	11:F3:103:ILE:HD12	1.90	0.53
11:F7:356:LYS:O	11:F7:359:THR:OG1	2.18	0.53
3:FB:20:PHE:CE1	3:FB:233:MET:HG3	2.43	0.53
4:FI:417:GLU:OE1	4:FI:417:GLU:N	2.28	0.53
4:FK:319:TYR:HD2	4:FK:323:VAL:HG21	1.73	0.53
13:G2:446:THR:HB	13:G2:471:LYS:HE2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G5:542:TYR:HB3	14:G5:597:GLN:CD	2.32	0.53
14:G6:361:LYS:HB3	14:G6:365:ARG:HH12	1.73	0.53
4:GA:107:HIS:HA	4:GA:152:LEU:HD23	1.90	0.53
4:GC:107:HIS:CD2	4:GC:152:LEU:HB3	2.43	0.53
4:GC:256:GLN:O	4:GC:260:VAL:HG12	2.08	0.53
3:GD:32:PRO:O	3:GD:83:GLN:NE2	2.39	0.53
3:GD:158:GLU:OE1	3:GD:158:GLU:N	2.40	0.53
4:GE:216:ASN:ND2	4:GE:275:VAL:O	2.41	0.53
4:GG:423:GLU:HA	4:GG:426:ALA:HB3	1.89	0.53
3:GJ:306:ARG:O	3:GJ:306:ARG:NE	2.39	0.53
15:H1:38:THR:O	15:H1:42:LEU:HG	2.07	0.53
15:H3:212:LEU:HG	15:H3:213:ILE:N	2.23	0.53
15:H3:281:LEU:HD23	15:H3:282:ILE:N	2.24	0.53
15:H5:38:THR:O	15:H5:42:LEU:HG	2.08	0.53
4:HC:323:VAL:HG13	4:HC:373:ARG:HG2	1.88	0.53
3:HD:8:GLN:HG2	3:HD:65:LEU:HA	1.90	0.53
3:HD:282:ARG:NH2	3:HD:292:GLN:OE1	2.35	0.53
4:HE:7:ILE:N	4:HE:136:LEU:O	2.33	0.53
4:HE:264:ARG:HG2	4:HE:265:ILE:N	2.23	0.53
4:HE:418:PHE:O	4:HE:422:ARG:NH1	2.41	0.53
4:HG:11:GLN:HA	4:HG:14:VAL:HG22	1.91	0.53
4:HI:36:MET:HE3	4:HI:36:MET:HA	1.90	0.53
4:HI:172:TYR:N	4:HI:204:VAL:O	2.35	0.53
3:HJ:111:GLU:HG2	3:HJ:112:LEU:HD12	1.90	0.53
4:HK:220:GLU:O	4:HK:221:ARG:NE	2.38	0.53
3:ID:285:THR:O	3:ID:288:GLU:HG3	2.08	0.53
4:IE:1:MET:SD	4:IE:2:ARG:N	2.81	0.53
3:IF:77:ARG:HD3	3:IF:90:PHE:HE2	1.74	0.53
3:IF:316:VAL:HG22	3:IF:352:ALA:HB3	1.90	0.53
4:IG:438:ASP:HA	3:IH:391:ARG:HH12	1.72	0.53
4:II:76:ASP:OD1	4:II:79:ARG:NH1	2.41	0.53
4:II:207:GLU:HB2	4:II:304:LYS:NZ	2.22	0.53
4:IK:107:HIS:CD2	4:IK:152:LEU:HB3	2.43	0.53
4:JC:89:PRO:HD2	4:KC:280:LYS:HZ3	1.72	0.53
4:JE:207:GLU:HB2	4:JE:304:LYS:HZ1	1.72	0.53
3:JF:234:SER:O	3:JF:238:THR:HG23	2.08	0.53
3:JL:379:LYS:O	3:JL:382:SER:OG	2.17	0.53
21:K3:490:ALA:O	21:K3:493:GLN:N	2.40	0.53
3:KB:151:LEU:HD22	3:KB:154:LYS:HZ1	1.72	0.53
3:KD:16:ILE:HD13	3:KD:226:ASN:ND2	2.23	0.53
3:KD:77:ARG:O	3:KD:77:ARG:NH1	2.35	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KF:269:GLY:HA2	3:KF:300:MET:HE1	1.89	0.53
3:KF:317:PHE:O	3:KF:354:CYS:N	2.36	0.53
3:KH:7:LEU:HB2	3:KH:135:LEU:HG	1.89	0.53
3:KJ:235:GLY:O	3:KJ:238:THR:OG1	2.20	0.53
3:KL:229:VAL:O	3:KL:232:THR:OG1	2.25	0.53
4:LA:423:GLU:HA	4:LA:426:ALA:HB3	1.90	0.53
4:LC:278:ALA:O	4:LC:370:LYS:NZ	2.41	0.53
4:LI:10:GLY:O	4:LI:14:VAL:HG13	2.09	0.53
4:LI:68:VAL:HG12	4:LI:93:ILE:HB	1.89	0.53
3:LL:64:VAL:HG21	3:LL:120:VAL:HG12	1.90	0.53
3:MD:302:ALA:HB1	3:MD:377:LEU:HD21	1.89	0.53
3:MD:389:PHE:HZ	3:MD:405:GLU:HB2	1.73	0.53
3:MH:398:TYR:HB3	3:MH:403:MET:HB2	1.89	0.53
4:MK:81:GLY:O	4:MK:84:ARG:NH1	2.41	0.53
4:MK:261:PRO:HA	3:ML:394:PHE:CE1	2.43	0.53
4:MM:209:ILE:HG23	4:MM:230:LEU:HD21	1.90	0.53
3:NB:350:LYS:HE3	4:NC:181:VAL:H	1.74	0.53
4:NC:145:THR:HG23	39:NC:501:GTP:O3B	2.08	0.53
3:ND:218:THR:OG1	3:ND:219:THR:N	2.41	0.53
4:NE:252:LEU:HD13	4:NE:255:PHE:HD2	1.72	0.53
4:NG:208:ALA:H	4:NG:304:LYS:HZ1	1.54	0.53
4:NG:392:ASP:OD1	4:NG:393:HIS:N	2.41	0.53
3:NH:52:ASN:OD1	3:NH:62:ARG:NH1	2.42	0.53
3:NJ:186:THR:HG23	3:NJ:385:PHE:CZ	2.44	0.53
4:NK:115:VAL:HA	4:NK:118:VAL:HG22	1.90	0.53
28:O2:16:PRO:HB3	28:O2:21:ASN:HB3	1.90	0.53
3:OB:12:CYS:HA	39:OB:501:GTP:HN22	1.73	0.53
3:OB:81:PHE:O	3:OB:84:ILE:HG22	2.08	0.53
4:OE:34:GLY:HA2	4:OE:86:LEU:HD21	1.91	0.53
4:OE:125:LEU:HD13	4:OE:128:LEU:HD21	1.90	0.53
4:OE:405:VAL:O	4:OE:409:VAL:N	2.39	0.53
3:OH:11:GLN:HE21	39:OH:501:GTP:H3'	1.73	0.53
3:OJ:374:ILE:HA	3:OJ:377:LEU:HD13	1.89	0.53
4:OK:91:GLN:HG3	4:OK:121:ARG:HH21	1.73	0.53
29:P2:421:THR:OG1	29:P2:464:VAL:O	2.20	0.53
29:P3:120:SER:OG	29:P3:124:LEU:N	2.41	0.53
4:PA:91:GLN:HG3	4:PA:121:ARG:HH21	1.72	0.53
3:PF:152:ILE:HA	3:PF:155:ILE:HG12	1.89	0.53
4:PI:172:TYR:HB2	4:PI:203:MET:HB2	1.90	0.53
4:PI:207:GLU:HB2	4:PI:304:LYS:NZ	2.22	0.53
4:PM:91:GLN:HG3	4:PM:121:ARG:HH21	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QF:39:ASP:OD1	3:QF:43:GLN:NE2	2.41	0.53
3:QJ:415:MET:O	3:QJ:419:VAL:HG23	2.08	0.53
4:QK:49:PHE:O	4:QK:53:PHE:N	2.40	0.53
4:QK:84:ARG:HH12	37:YQ:126:SER:HA	1.73	0.53
3:RB:2:ARG:HB3	3:RB:131:GLN:NE2	2.23	0.53
4:RC:260:VAL:O	3:RD:397:TRP:HH2	1.92	0.53
3:RD:258:VAL:HG23	3:RD:263:LEU:HB2	1.90	0.53
4:RE:104:ALA:HA	4:RE:107:HIS:HB3	1.89	0.53
4:RE:203:MET:SD	4:RE:203:MET:N	2.75	0.53
3:RH:210:ILE:HD12	3:RH:213:ARG:HB3	1.89	0.53
3:RJ:12:CYS:SG	3:RJ:13:GLY:N	2.81	0.53
4:RM:2:ARG:HA	4:RM:133:GLN:HE22	1.73	0.53
3:SB:102:ALA:O	3:SB:106:TYR:N	2.33	0.53
3:SB:173:PRO:O	3:SB:380:ARG:NH2	2.39	0.53
3:SF:84:ILE:O	3:SF:86:ARG:NH1	2.41	0.53
4:SG:52:PHE:HZ	4:SG:239:THR:HB	1.72	0.53
4:SI:9:VAL:HA	4:SI:68:VAL:HG23	1.90	0.53
3:SJ:190:HIS:NE2	3:SJ:414:ASN:OD1	2.41	0.53
4:SK:214:ARG:NH1	4:SK:215:ARG:HG3	2.24	0.53
4:SK:220:GLU:O	4:SK:221:ARG:NE	2.42	0.53
3:SL:141:GLY:HA3	39:SL:501:GTP:H5”	1.89	0.53
3:TB:52:ASN:OD1	3:TB:62:ARG:NH1	2.42	0.53
3:TD:347:ASN:HB3	4:TE:178:SER:HB3	1.90	0.53
4:TE:260:VAL:O	3:TF:397:TRP:HH2	1.90	0.53
3:TF:31:ASP:OD2	3:TF:35:THR:OG1	2.23	0.53
3:TF:52:ASN:CG	3:TF:62:ARG:HD3	2.33	0.53
3:TF:152:ILE:HD12	3:TF:195:ASN:HB2	1.90	0.53
4:TG:319:TYR:HB2	4:TG:355:ILE:HD13	1.89	0.53
3:TH:172:SER:OG	3:TH:205:GLU:OE2	2.21	0.53
4:TI:88:HIS:CE1	4:TI:121:ARG:HH22	2.26	0.53
4:TI:315:CYS:N	4:TI:350:GLY:O	2.40	0.53
4:TK:34:GLY:HA2	4:TK:86:LEU:HD21	1.91	0.53
4:TM:6:SER:HA	4:TM:136:LEU:HB2	1.90	0.53
4:TM:386:GLU:HA	4:TM:389:ALA:HB3	1.90	0.53
4:UC:245:ASP:O	4:UC:356:ASN:ND2	2.40	0.53
3:UF:32:PRO:C	3:UF:83:GLN:HE21	2.16	0.53
3:UH:60:VAL:HG23	3:UH:86:ARG:HH11	1.73	0.53
4:UI:6:SER:HA	4:UI:136:LEU:HB2	1.89	0.53
4:VC:319:TYR:HB2	4:VC:355:ILE:HD13	1.89	0.53
4:VE:52:PHE:HE2	4:VE:243:ARG:HG3	1.73	0.53
3:VH:305:PRO:HB2	3:VH:310:TYR:HE1	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:VI:9:VAL:HA	4:VI:68:VAL:HG23	1.90	0.53
4:VK:102:ASN:HB3	4:VK:105:ARG:HB2	1.90	0.53
4:VK:214:ARG:NH1	4:VK:215:ARG:HG3	2.22	0.53
4:VK:329:ASN:OD1	4:VK:330:ALA:N	2.41	0.53
3:VL:250:LEU:O	3:VL:254:ALA:N	2.35	0.53
4:WA:371:VAL:HG11	4:WA:374:ALA:HB2	1.90	0.53
3:WD:174:LYS:HG3	3:WD:175:VAL:HG12	1.90	0.53
4:WE:324:VAL:HG11	3:WF:219:THR:HB	1.90	0.53
3:WF:118:ASP:OD1	3:WF:121:ARG:NH1	2.41	0.53
4:WG:113:GLU:N	4:WG:113:GLU:OE1	2.40	0.53
4:WI:320:ARG:HH12	4:WI:376:CYS:H	1.55	0.53
4:WI:411:GLU:OE2	4:WI:413:MET:HE1	2.07	0.53
3:WL:99:ASN:OD1	3:WL:142:GLY:HA3	2.08	0.53
37:YJ:26:ILE:HD12	37:YJ:134:TYR:CE1	2.44	0.53
37:YL:11:ILE:HG23	37:YL:72:ILE:HD11	1.88	0.53
37:YU:49:VAL:HA	37:YU:52:TYR:CD2	2.43	0.53
2:A1:158:THR:HA	2:A1:161:ILE:HD12	1.89	0.53
2:A2:118:TYR:O	2:A2:121:LYS:HG2	2.08	0.53
3:AF:309:ARG:NH2	3:AF:426:GLN:O	2.41	0.53
3:AH:11:GLN:O	3:AH:15:GLN:NE2	2.41	0.53
4:AI:272:TYR:CZ	4:AI:274:PRO:HG2	2.43	0.53
4:AI:423:GLU:HA	4:AI:426:ALA:HB3	1.91	0.53
4:AM:11:GLN:HA	4:AM:14:VAL:HG22	1.89	0.53
5:B2:281:TRP:CD1	5:B2:285:ASN:HD21	2.26	0.53
5:B6:239:LEU:O	5:B6:243:ILE:HG12	2.08	0.53
4:BC:262:TYR:OH	3:BD:391:ARG:O	2.26	0.53
3:BD:234:SER:O	3:BD:238:THR:HG23	2.07	0.53
3:BD:299:MET:SD	3:BD:301:ALA:N	2.81	0.53
3:BF:155:ILE:HA	3:BF:158:GLU:HB2	1.89	0.53
4:BI:30:ILE:HG13	4:BI:53:PHE:HE2	1.73	0.53
3:BJ:292:GLN:O	3:BJ:298:ASN:ND2	2.34	0.53
3:BL:11:GLN:HE21	39:BL:501:GTP:H3'	1.74	0.53
3:BL:13:GLY:HA2	3:BL:16:ILE:HB	1.89	0.53
3:BL:361:LEU:HD22	14:G6:93:ARG:HH22	1.73	0.53
4:BM:75:VAL:HG22	4:BM:79:ARG:HH21	1.72	0.53
6:C:264:LYS:HZ2	6:C:361:ARG:HH12	1.55	0.53
6:C:264:LYS:O	6:C:268:ILE:N	2.31	0.53
6:C:335:ASN:HB3	6:C:338:LYS:HE3	1.90	0.53
7:C2:179:ARG:O	7:C2:183:ARG:HG2	2.08	0.53
7:C3:116:ASN:OD1	7:C3:119:ARG:NH2	2.36	0.53
7:C3:202:ARG:NH1	7:C3:469:ASP:HA	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CC:178:SER:OG	4:CC:180:ALA:O	2.26	0.53
4:CC:349:THR:HG23	3:CD:179:VAL:HG12	1.90	0.53
3:CF:32:PRO:O	3:CF:83:GLN:NE2	2.34	0.53
3:CH:75:SER:O	14:G5:280:ARG:NH2	2.29	0.53
3:CH:131:GLN:HB3	3:CH:163:ILE:HD12	1.89	0.53
4:CI:319:TYR:N	4:CI:354:GLY:O	2.41	0.53
3:CJ:130:LEU:HB2	3:CJ:162:ARG:HH11	1.73	0.53
4:CK:396:ASP:OD1	4:CK:397:LEU:N	2.41	0.53
7:Cb:410:GLU:HA	7:Cc:300:TRP:CH2	2.43	0.53
8:D3:127:GLU:OE2	8:D3:279:ARG:NH1	2.41	0.53
8:D7:424:PHE:HA	8:D7:427:ARG:HH21	1.73	0.53
8:D8:315:LEU:HD13	8:D8:318:LEU:HD12	1.90	0.53
4:DA:415:GLU:OE1	4:DA:419:SER:OG	2.26	0.53
4:DC:51:THR:HG23	4:DC:52:PHE:CD2	2.43	0.53
4:DC:185:TYR:HA	4:DC:395:PHE:HE1	1.74	0.53
3:DD:52:ASN:OD1	3:DD:62:ARG:NH1	2.42	0.53
3:DH:276:ARG:NE	13:G2:284:GLY:O	2.41	0.53
3:DJ:176:SER:O	3:DJ:178:THR:N	2.41	0.53
9:E:630:ASP:O	9:E:632:ASP:N	2.36	0.53
3:ED:330:MET:HA	3:ED:333:VAL:HG22	1.90	0.53
4:EK:170:ALA:HB3	4:EK:203:MET:HE1	1.90	0.53
11:F3:402:ARG:HD2	11:F3:407:LEU:HD13	1.90	0.53
11:F7:307:ALA:O	11:F7:311:ARG:HG3	2.08	0.53
11:F8:418:ASN:O	11:F8:422:THR:HG23	2.08	0.53
11:F8:445:VAL:O	11:F8:448:LYS:HG3	2.07	0.53
3:FF:12:CYS:SG	39:FF:501:GTP:H5'	2.48	0.53
4:FG:208:ALA:H	4:FG:304:LYS:NZ	2.05	0.53
3:FH:3:GLU:OE2	3:FH:127:CYS:HB2	2.07	0.53
3:FJ:139:LEU:N	3:FJ:168:SER:OG	2.40	0.53
11:Fj:293:PRO:HA	11:Fj:296:TRP:HB3	1.89	0.53
12:G:94:THR:HA	12:G:97:ARG:HE	1.73	0.53
13:G3:102:TYR:HD2	13:G3:117:ILE:HD11	1.73	0.53
14:G4:450:ARG:HB2	14:G4:467:GLU:HG2	1.88	0.53
14:G5:328:VAL:O	14:G5:330:GLN:NE2	2.41	0.53
14:G5:436:TYR:CE2	14:G5:507:LEU:HB3	2.42	0.53
4:GA:258:ASN:HA	3:GB:394:PHE:HE2	1.72	0.53
4:GC:262:TYR:OH	3:GD:391:ARG:O	2.26	0.53
4:GE:22:GLU:HG2	4:GE:83:TYR:CE2	2.43	0.53
4:GG:272:TYR:HD1	4:GG:275:VAL:HG13	1.73	0.53
3:GH:181:GLU:HG3	3:GH:182:PRO:HD3	1.89	0.53
4:GI:427:ALA:HA	4:GI:430:LYS:HG2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:GK:244:PHE:HA	25:N:84:GLN:NE2	2.23	0.53
3:GL:73:MET:HE1	3:GL:92:PHE:CG	2.43	0.53
12:H:463:GLU:HA	12:H:466:LYS:HE2	1.90	0.53
4:HA:269:LEU:N	4:HA:379:SER:O	2.34	0.53
3:HB:7:LEU:HD13	3:HB:64:VAL:HB	1.91	0.53
4:HC:5:ILE:HD13	4:HC:64:ARG:HB3	1.89	0.53
4:HG:402:ARG:HH11	4:HG:405:VAL:HG22	1.73	0.53
4:HK:260:VAL:HG23	4:HK:265:ILE:O	2.08	0.53
4:IA:186:ASN:OD1	4:IA:187:SER:N	2.41	0.53
4:IA:262:TYR:OH	3:IB:391:ARG:O	2.26	0.53
4:IA:324:VAL:HG11	3:IB:219:THR:HB	1.90	0.53
3:IB:257:MET:HE3	3:IB:370:ASN:HB2	1.89	0.53
4:IC:54:SER:N	4:IC:62:VAL:O	2.39	0.53
4:IC:205:ASP:OD2	4:IC:304:LYS:NZ	2.28	0.53
4:IE:5:ILE:HD13	4:IE:64:ARG:HB3	1.90	0.53
4:IE:415:GLU:OE1	4:IE:419:SER:OG	2.26	0.53
3:IF:344:TRP:O	4:IG:401:LYS:NZ	2.30	0.53
4:IK:139:HIS:CE1	4:IK:168:GLU:HB2	2.43	0.53
4:IK:392:ASP:OD1	4:IK:393:HIS:N	2.41	0.53
3:JB:372:THR:HG21	3:JB:426:GLN:HG3	1.90	0.53
4:JC:30:ILE:HG13	4:JC:53:PHE:HE2	1.72	0.53
3:JD:250:LEU:HD13	3:JD:253:LEU:HD12	1.90	0.53
4:JE:51:THR:HG23	4:JE:52:PHE:CD2	2.44	0.53
3:JH:285:THR:O	3:JH:288:GLU:HG3	2.08	0.53
4:JI:68:VAL:HG12	4:JI:93:ILE:HB	1.89	0.53
4:JK:125:LEU:HD13	4:JK:128:LEU:HD21	1.91	0.53
21:K3:274:ARG:HH21	37:YK:1:MET:HE1	1.73	0.53
21:K4:165:LEU:HD23	21:K4:169:ARG:HD2	1.91	0.53
4:KA:1:MET:SD	4:KA:2:ARG:N	2.81	0.53
3:KD:2:ARG:HA	3:KD:129:CYS:O	2.08	0.53
3:KD:2:ARG:HD2	4:KE:96:LYS:O	2.08	0.53
4:KE:216:ASN:ND2	4:KE:275:VAL:O	2.41	0.53
3:KJ:215:LEU:HD11	3:KJ:228:LEU:HD11	1.90	0.53
3:KL:267:MET:O	3:KL:369:GLY:N	2.38	0.53
22:L1:156:GLU:HA	22:L1:159:CYS:HB2	1.90	0.53
22:L2:31:PHE:HZ	4:ME:386:GLU:HA	1.72	0.53
22:L2:76:LYS:HD2	4:LE:414:GLU:HG3	1.89	0.53
4:LA:187:SER:O	4:LA:190:THR:OG1	2.25	0.53
3:LB:60:VAL:HG23	3:LB:86:ARG:HH11	1.73	0.53
3:LD:345:ILE:HD12	3:LD:346:PRO:HD2	1.89	0.53
4:LE:208:ALA:H	4:LE:304:LYS:NZ	2.04	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:LG:187:SER:O	4:LG:190:THR:OG1	2.26	0.53
4:LG:260:VAL:HG23	4:LG:265:ILE:O	2.08	0.53
3:LJ:39:ASP:OD1	3:LJ:43:GLN:NE2	2.40	0.53
4:LK:203:MET:HE1	4:LK:267:PHE:HB3	1.91	0.53
3:LL:282:ARG:HE	3:LL:288:GLU:CD	2.16	0.53
3:LL:379:LYS:O	3:LL:382:SER:OG	2.17	0.53
4:MC:206:ASN:HA	4:MC:209:ILE:HD12	1.90	0.53
3:MD:218:THR:OG1	3:MD:219:THR:N	2.41	0.53
3:MF:406:MET:O	3:MF:409:THR:OG1	2.21	0.53
3:MH:214:THR:HG23	3:MH:215:LEU:HD22	1.90	0.53
3:MH:246:LEU:HB2	3:MH:352:ALA:HB1	1.89	0.53
3:MH:269:GLY:N	3:MH:367:PHE:O	2.41	0.53
4:MI:208:ALA:H	4:MI:304:LYS:NZ	2.04	0.53
3:ML:331:LEU:HD11	4:MM:176:GLN:OE1	2.08	0.53
26:N2:159:ARG:HB2	26:N2:162:ASP:HA	1.90	0.53
3:NB:28:HIS:O	3:NB:43:GLN:NE2	2.41	0.53
4:NC:33:ASP:OD1	4:NC:34:GLY:N	2.40	0.53
3:NF:218:THR:OG1	3:NF:219:THR:N	2.40	0.53
4:NI:104:ALA:O	4:NI:108:TYR:N	2.40	0.53
4:NI:287:SER:OG	4:NI:290:GLU:OE1	2.19	0.53
3:NL:130:LEU:HB2	3:NL:162:ARG:HH11	1.73	0.53
3:OB:258:VAL:HG13	3:OB:263:LEU:HB2	1.90	0.53
3:OD:306:ARG:NE	3:OD:306:ARG:O	2.38	0.53
3:OF:378:PHE:CD1	3:OF:419:VAL:HG22	2.42	0.53
3:OF:385:PHE:HA	3:OF:388:MET:HE2	1.90	0.53
3:OF:415:MET:O	3:OF:419:VAL:HG23	2.08	0.53
4:OG:154:MET:HE3	4:OG:194:THR:HG22	1.91	0.53
29:P2:230:LEU:HB3	29:P2:232:MET:SD	2.49	0.53
3:PB:347:ASN:HB3	4:PC:178:SER:HB3	1.89	0.53
3:PB:372:THR:HG21	3:PB:426:GLN:HB2	1.90	0.53
4:PE:285:GLN:HE22	4:PE:287:SER:HB3	1.72	0.53
4:PG:93:ILE:HG13	4:PG:118:VAL:HG12	1.90	0.53
4:PI:22:GLU:O	4:PI:26:LEU:HD23	2.09	0.53
3:PL:391:ARG:HD3	3:PL:391:ARG:H	1.73	0.53
3:QB:36:TYR:HE2	3:QB:44:LEU:HD13	1.73	0.53
3:QF:250:LEU:HD13	3:QF:253:LEU:HD12	1.89	0.53
3:QJ:52:ASN:OD1	3:QJ:62:ARG:NH1	2.42	0.53
4:QK:146:GLY:N	39:QK:501:GTP:O2B	2.42	0.53
31:R3:139:MET:HG3	31:R3:142:ARG:HH21	1.73	0.53
4:RE:315:CYS:N	4:RE:350:GLY:O	2.40	0.53
3:RH:149:THR:HG21	3:RH:188:SER:HA	1.88	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RJ:250:LEU:O	3:RJ:254:ALA:N	2.33	0.53
3:RL:215:LEU:HD11	3:RL:228:LEU:HD11	1.90	0.53
3:SB:256:ASN:HD21	4:SC:101:ASN:ND2	2.06	0.53
4:SE:188:ILE:HG12	4:SE:425:LEU:HD11	1.90	0.53
4:SG:22:GLU:O	4:SG:26:LEU:HD23	2.07	0.53
4:SG:426:ALA:C	4:SG:430:LYS:HZ2	2.16	0.53
3:SJ:269:GLY:HA3	3:SJ:367:PHE:HB3	1.89	0.53
4:SM:427:ALA:HA	4:SM:430:LYS:HG2	1.89	0.53
32:T:337:MET:HA	32:T:340:MET:HG3	1.90	0.53
3:TB:316:VAL:HG22	3:TB:352:ALA:HB3	1.89	0.53
3:TB:415:MET:O	3:TB:419:VAL:HG23	2.09	0.53
4:TC:49:PHE:O	4:TC:53:PHE:N	2.40	0.53
3:TH:317:PHE:HB3	3:TH:321:MET:HE3	1.89	0.53
3:TL:374:ILE:HA	3:TL:377:LEU:HD13	1.90	0.53
3:TN:172:SER:OG	3:TN:205:GLU:OE2	2.24	0.53
4:UC:102:ASN:HB3	4:UC:105:ARG:HB2	1.91	0.53
4:UI:1:MET:HE2	4:UI:2:ARG:H	1.73	0.53
4:UI:287:SER:OG	4:UI:290:GLU:OE1	2.22	0.53
3:UL:83:GLN:O	3:UL:86:ARG:NH2	2.41	0.53
3:UL:378:PHE:CD1	3:UL:419:VAL:HG22	2.43	0.53
4:VA:433:GLU:O	4:VA:437:VAL:N	2.36	0.53
4:VC:5:ILE:HD13	4:VC:64:ARG:HB3	1.90	0.53
4:VC:68:VAL:HG12	4:VC:93:ILE:HB	1.91	0.53
3:VD:28:HIS:ND1	3:VD:43:GLN:HB2	2.23	0.53
4:VE:287:SER:OG	4:VE:290:GLU:OE1	2.22	0.53
4:VE:329:ASN:HA	4:VE:332:ILE:HG12	1.90	0.53
3:VH:117:LEU:HD11	3:VH:154:LYS:HD2	1.88	0.53
3:VH:267:MET:O	3:VH:369:GLY:N	2.35	0.53
4:VI:89:PRO:HD2	4:WI:280:LYS:HZ2	1.74	0.53
4:VK:236:SER:O	4:VK:243:ARG:NH2	2.33	0.53
3:VL:295:ASP:HB2	3:VL:298:ASN:HB2	1.89	0.53
3:WD:16:ILE:HD13	3:WD:226:ASN:ND2	2.22	0.53
3:WD:111:GLU:HG2	3:WD:112:LEU:HD12	1.90	0.53
4:WG:120:ASP:OD1	4:WG:123:ARG:NH1	2.42	0.53
3:WH:214:THR:HG21	3:WH:273:LEU:HB3	1.91	0.53
4:WI:33:ASP:OD1	4:WI:34:GLY:N	2.41	0.53
4:WI:113:GLU:OE1	4:WI:113:GLU:N	2.40	0.53
35:XH:217:GLU:OE2	35:XH:235:TYR:OH	2.16	0.53
35:XL:58:LYS:HA	35:XL:61:GLU:HB2	1.89	0.53
35:XM:156:LEU:HD23	35:XM:159:LEU:HD12	1.90	0.53
37:YC:93:THR:HB	37:YC:151:TRP:CD1	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:YC:161:LYS:HG3	37:YC:162:VAL:HG23	1.91	0.53
37:YE:41:ARG:NH1	37:YE:48:GLN:OE1	2.41	0.53
37:YP:76:LEU:HA	37:YP:79:LEU:HB2	1.90	0.53
37:YR:22:GLN:O	37:YR:26:ILE:HG12	2.08	0.53
1:A:206:TYR:O	1:A:209:LEU:HG	2.08	0.53
2:A1:163:LEU:HB3	2:A1:231:GLN:HE22	1.73	0.53
3:AB:176:SER:O	3:AB:178:THR:N	2.42	0.53
4:AE:1:MET:HE1	4:AE:51:THR:HB	1.89	0.53
4:AG:206:ASN:HA	4:AG:209:ILE:HD12	1.89	0.53
4:AG:396:ASP:OD1	4:AG:397:LEU:N	2.42	0.53
3:AH:11:GLN:HG3	39:AH:501:GTP:PA	2.49	0.53
4:AI:396:ASP:OD1	4:AI:397:LEU:N	2.41	0.53
4:AM:146:GLY:N	39:AM:501:GTP:O2B	2.41	0.53
5:B6:160:GLN:O	5:B6:164:LEU:HG	2.08	0.53
5:B6:276:TYR:HD2	5:B6:380:LYS:HG3	1.73	0.53
5:B7:176:HIS:HA	5:B7:179:LYS:NZ	2.24	0.53
5:B8:39:ARG:HH22	5:B9:293:LEU:HD12	1.73	0.53
3:BB:246:LEU:HB2	3:BB:352:ALA:HB1	1.90	0.53
4:BE:12:ALA:HB1	39:BE:501:GTP:C2	2.44	0.53
3:BF:152:ILE:HD12	3:BF:195:ASN:HB2	1.90	0.53
3:BF:206:ALA:O	3:BF:210:ILE:HG12	2.08	0.53
4:BI:223:THR:OG1	4:BI:225:THR:OG1	2.21	0.53
4:BI:401:LYS:C	4:BI:402:ARG:HD3	2.32	0.53
4:BK:1:MET:O	4:BK:133:GLN:NE2	2.39	0.53
4:BK:208:ALA:H	4:BK:304:LYS:NZ	2.05	0.53
4:BM:263:PRO:O	4:BM:264:ARG:HD3	2.08	0.53
7:C2:222:GLU:OE2	7:C2:339:GLN:HB3	2.09	0.53
7:C8:300:TRP:CH2	7:C9:412:CYS:HB2	2.43	0.53
7:C9:156:TRP:O	7:C9:160:ILE:HG12	2.08	0.53
7:C9:365:LEU:O	7:C9:369:LEU:HG	2.09	0.53
3:CF:189:VAL:HA	3:CF:192:LEU:HB2	1.90	0.53
4:CI:269:LEU:N	4:CI:379:SER:O	2.28	0.53
3:CJ:328:GLU:OE1	3:CJ:332:ASN:ND2	2.37	0.53
39:CJ:501:GTP:O3G	39:CJ:501:GTP:O3'	2.21	0.53
4:CK:254:GLU:OE1	4:CK:254:GLU:N	2.40	0.53
3:CL:230:SER:HA	3:CL:233:MET:HE2	1.90	0.53
7:Cb:174:LEU:O	7:Cb:178:LYS:HG2	2.08	0.53
7:Cc:127:LEU:HA	7:Cc:130:ASP:OD2	2.09	0.53
8:D2:276:VAL:HG22	8:D2:279:ARG:HH22	1.73	0.53
8:D4:78:ARG:HD3	8:D5:335:GLN:NE2	2.22	0.53
8:D4:198:VAL:O	8:D4:202:ARG:HG2	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:D9:162:ARG:HH12	8:D9:168:VAL:HG22	1.72	0.53
4:DA:1:MET:O	4:DA:133:GLN:NE2	2.36	0.53
3:DB:330:MET:SD	3:DB:349:VAL:HG21	2.49	0.53
3:DL:276:ARG:NE	13:G3:284:GLY:O	2.39	0.53
4:EA:98:ASP:OD1	4:EA:99:ALA:N	2.41	0.53
3:EB:130:LEU:HB2	3:EB:162:ARG:NH1	2.23	0.53
4:EC:271:THR:HB	4:EC:377:MET:HB2	1.89	0.53
4:EE:219:ILE:HD12	15:H3:299:THR:HA	1.90	0.53
3:EF:290:THR:HG21	3:EF:329:GLN:HB3	1.89	0.53
4:EG:1:MET:O	4:EG:133:GLN:NE2	2.32	0.53
4:EG:208:ALA:N	4:EG:304:LYS:HZ1	2.06	0.53
3:EH:132:GLY:HA2	3:EH:162:ARG:HB3	1.91	0.53
4:EI:324:VAL:HG11	3:EJ:219:THR:HB	1.90	0.53
3:EL:132:GLY:HA2	3:EL:162:ARG:HB3	1.91	0.53
11:F1:470:MET:O	11:F1:474:LYS:HB2	2.08	0.53
11:F3:211:VAL:HG13	11:F3:343:PHE:HE1	1.73	0.53
11:F4:153:LYS:HE2	11:F4:261:GLN:CD	2.33	0.53
11:F9:409:ARG:HH21	11:Fa:288:GLY:H	1.56	0.53
3:FD:3:GLU:OE2	3:FD:127:CYS:HB2	2.09	0.53
3:FD:47:ILE:HG12	3:FD:59:TYR:CD2	2.43	0.53
3:FF:378:PHE:HA	3:FF:381:ILE:HG12	1.89	0.53
4:FG:186:ASN:OD1	4:FG:187:SER:N	2.41	0.53
4:FG:320:ARG:HD3	4:FG:360:PRO:HG3	1.89	0.53
3:FJ:2:ARG:HB3	3:FJ:131:GLN:NE2	2.23	0.53
4:FK:51:THR:HG23	4:FK:52:PHE:CD2	2.43	0.53
4:FK:224:TYR:HE2	39:FK:501:GTP:C6	2.26	0.53
11:Fb:245:ASP:O	11:Fb:248:HIS:ND1	2.41	0.53
11:Fb:363:LYS:HD3	11:Fc:110:ARG:NH1	2.23	0.53
11:Fc:136:GLU:O	11:Fc:140:ARG:HG3	2.09	0.53
11:Fe:193:GLU:O	11:Fe:197:ASN:ND2	2.41	0.53
11:Fe:254:ILE:HA	11:Fe:257:LYS:HD2	1.91	0.53
11:Ff:346:ARG:HH21	11:Ff:349:GLU:HG2	1.74	0.53
11:Ff:429:THR:O	11:Ff:433:ARG:HG2	2.08	0.53
11:Fh:346:ARG:O	11:Fh:349:GLU:HG2	2.09	0.53
11:Fm:329:SER:HA	11:Fm:332:MET:SD	2.48	0.53
13:G2:106:ASP:HA	13:G2:115:TYR:HA	1.90	0.53
14:G4:245:ASP:C	14:G4:246:ARG:HD2	2.34	0.53
4:GA:207:GLU:HB2	4:GA:304:LYS:NZ	2.22	0.53
4:GE:8:HIS:NE2	4:GE:21:TRP:HH2	2.06	0.53
3:GJ:33:THR:O	3:GJ:58:LYS:NZ	2.35	0.53
15:H6:252:PHE:HA	15:H6:255:ARG:NE	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HA:85:GLN:OE1	4:HA:85:GLN:N	2.31	0.53
4:HA:312:TYR:HB2	4:HA:343:PHE:HD1	1.73	0.53
4:HA:318:LEU:O	4:HA:375:VAL:HA	2.08	0.53
4:HA:390:ARG:O	4:HA:394:LYS:HG2	2.09	0.53
3:HB:28:HIS:CD2	3:HB:43:GLN:HB2	2.40	0.53
3:HB:286:VAL:O	3:HB:290:THR:HG23	2.09	0.53
4:HC:50:ASN:O	4:HC:64:ARG:NH1	2.42	0.53
3:HF:11:GLN:HE21	39:HF:501:GTP:H3'	1.72	0.53
3:HF:267:MET:HB3	3:HF:299:MET:HE1	1.90	0.53
3:HH:2:ARG:NH2	4:HI:97:GLU:HG2	2.23	0.53
3:HJ:33:THR:O	3:HJ:58:LYS:NZ	2.40	0.53
3:HJ:372:THR:HB	3:HJ:375:GLN:HE22	1.73	0.53
3:IF:8:GLN:HB3	3:IF:65:LEU:HA	1.89	0.53
3:IJ:2:ARG:HH12	3:IJ:251:ARG:HH21	1.54	0.53
3:IJ:132:GLY:HA2	3:IJ:162:ARG:HB3	1.89	0.53
4:IK:3:GLU:OE2	4:IK:130:THR:N	2.34	0.53
3:IL:178:THR:HB	3:IL:181:GLU:HB2	1.89	0.53
3:IL:217:LEU:HD11	3:IL:220:PRO:HB3	1.89	0.53
4:IM:47:ASP:HB3	4:IM:49:PHE:CE2	2.44	0.53
4:JC:1:MET:SD	4:JC:2:ARG:N	2.81	0.53
4:JG:172:TYR:N	4:JG:204:VAL:O	2.33	0.53
4:JG:244:PHE:HB3	4:JG:357:TYR:OH	2.08	0.53
4:JK:105:ARG:O	4:JK:109:THR:OG1	2.22	0.53
21:K1:401:TYR:HD2	21:K1:402:GLN:HE21	1.55	0.53
3:KB:269:GLY:N	3:KB:367:PHE:O	2.41	0.53
3:KD:218:THR:OG1	3:KD:219:THR:N	2.40	0.53
4:KI:8:HIS:CD2	4:KI:17:GLY:HA3	2.44	0.53
3:KJ:375:GLN:HA	3:KJ:378:PHE:CZ	2.43	0.53
4:LA:54:SER:N	4:LA:62:VAL:O	2.41	0.53
4:LA:214:ARG:NH1	4:LA:215:ARG:HG3	2.23	0.53
3:LB:252:LYS:NZ	4:LC:144:GLY:HA3	2.23	0.53
3:LD:152:ILE:O	3:LD:156:ARG:HG2	2.08	0.53
3:LD:316:VAL:HG22	3:LD:352:ALA:HB3	1.90	0.53
3:LD:317:PHE:O	3:LD:354:CYS:N	2.35	0.53
4:LE:50:ASN:OD1	4:LE:51:THR:N	2.41	0.53
3:LF:27:GLU:HA	3:LF:359:ARG:HD3	1.90	0.53
3:LF:197:ASP:OD1	3:LF:198:GLU:N	2.41	0.53
4:LG:419:SER:HA	4:LG:422:ARG:HE	1.72	0.53
3:LH:246:LEU:HB2	3:LH:352:ALA:HB1	1.90	0.53
3:LJ:375:GLN:HA	3:LJ:378:PHE:CZ	2.43	0.53
4:LK:214:ARG:NH1	4:LK:215:ARG:HG3	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MD:214:THR:HG23	3:MD:215:LEU:HD22	1.89	0.53
3:MD:350:LYS:HE3	4:ME:180:ALA:HA	1.89	0.53
3:MF:305:PRO:HB2	3:MF:310:TYR:HE1	1.73	0.53
3:MH:307:HIS:NE2	28:O2:9:GLN:OE1	2.41	0.53
3:ML:276:ARG:HH21	27:P:76:MET:HE2	1.73	0.53
26:N3:166:PHE:CE2	4:WI:220:GLU:HB3	2.43	0.53
4:NI:236:SER:O	4:NI:243:ARG:NH2	2.36	0.53
4:OE:50:ASN:OD1	4:OE:51:THR:N	2.42	0.53
4:OI:115:VAL:HA	4:OI:118:VAL:HG22	1.89	0.53
27:P:324:GLU:O	27:P:328:GLN:NE2	2.39	0.53
3:PD:46:ARG:HH12	4:PE:73:THR:HG23	1.73	0.53
3:PD:176:SER:O	3:PD:178:THR:N	2.42	0.53
4:PI:70:LEU:HA	4:PI:95:GLY:HA3	1.90	0.53
4:PM:224:TYR:HA	4:PM:227:LEU:HB2	1.90	0.53
30:Q3:1429:ALA:HB2	30:Q3:1499:LYS:HA	1.88	0.53
3:QB:13:GLY:HA2	3:QB:16:ILE:HB	1.89	0.53
4:QG:12:ALA:HB1	39:QG:501:GTP:C2	2.43	0.53
3:QJ:173:PRO:O	3:QJ:380:ARG:NH2	2.41	0.53
3:QL:132:GLY:HA3	3:QL:163:ILE:H	1.73	0.53
3:RB:258:VAL:O	4:RC:407:TRP:NE1	2.37	0.53
3:RF:375:GLN:HA	3:RF:378:PHE:CZ	2.43	0.53
39:RF:501:GTP:O3G	39:RF:501:GTP:O3'	2.21	0.53
3:RJ:302:ALA:HB1	3:RJ:377:LEU:HD11	1.90	0.53
4:RM:272:TYR:CZ	4:RM:274:PRO:HG2	2.43	0.53
4:SC:50:ASN:O	4:SC:64:ARG:NH1	2.41	0.53
3:SH:148:GLY:O	3:SH:152:ILE:HG12	2.08	0.53
3:SJ:317:PHE:O	3:SJ:354:CYS:N	2.36	0.53
3:SL:372:THR:HG21	3:SL:426:GLN:HG3	1.90	0.53
4:TC:33:ASP:OD1	4:TC:34:GLY:N	2.41	0.53
4:TE:115:VAL:HA	4:TE:118:VAL:HG22	1.91	0.53
3:TF:269:GLY:HA3	3:TF:367:PHE:HB3	1.89	0.53
3:TH:156:ARG:NH1	3:TH:160:PRO:HB3	2.24	0.53
3:TH:385:PHE:HZ	3:TH:408:PHE:HB3	1.74	0.53
4:TI:172:TYR:N	4:TI:204:VAL:O	2.31	0.53
4:TK:49:PHE:CE1	4:TK:55:GLU:HB3	2.43	0.53
4:TK:118:VAL:HA	4:TK:121:ARG:HG2	1.89	0.53
3:TL:372:THR:HB	3:TL:375:GLN:HE22	1.73	0.53
4:TM:273:ALA:HB2	4:TM:295:CYS:HB3	1.89	0.53
33:U:229:ASP:HA	33:U:232:MET:HE2	1.91	0.53
4:UC:15:GLN:OE1	4:UC:15:GLN:N	2.38	0.53
4:UC:171:ILE:HD12	4:UC:204:VAL:HG13	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UD:269:GLY:HA3	3:UD:367:PHE:HB3	1.90	0.53
3:UD:406:MET:O	3:UD:409:THR:OG1	2.23	0.53
3:UH:324:LYS:HD2	4:UI:221:ARG:HA	1.90	0.53
4:UI:324:VAL:HG21	3:UJ:219:THR:HG22	1.90	0.53
3:UJ:175:VAL:HG22	3:UJ:177:ASP:H	1.72	0.53
3:VB:211:CYS:HA	3:VB:215:LEU:HB2	1.91	0.53
4:VC:272:TYR:CZ	4:VC:274:PRO:HG2	2.43	0.53
4:VE:216:ASN:HD21	4:VE:275:VAL:HG23	1.74	0.53
4:VE:386:GLU:HA	4:VE:389:ALA:HB3	1.90	0.53
4:VI:332:ILE:HG12	4:VI:336:LYS:HE3	1.90	0.53
3:VJ:282:ARG:HE	3:VJ:288:GLU:CD	2.17	0.53
4:WA:115:VAL:O	4:WA:119:LEU:N	2.36	0.53
3:WD:378:PHE:CD1	3:WD:419:VAL:HG22	2.42	0.53
4:WK:273:ALA:N	4:WK:377:MET:HE1	2.23	0.53
3:WL:380:ARG:O	3:WL:384:GLN:HG2	2.08	0.53
35:XH:138:LYS:HA	35:XH:141:LEU:HD12	1.90	0.53
35:XJ:58:LYS:O	35:XJ:62:ARG:N	2.31	0.53
35:XM:56:PHE:HB2	35:XM:98:ASP:HB3	1.90	0.53
37:YC:22:GLN:HE22	37:YC:124:HIS:HB3	1.73	0.53
37:YC:70:MET:HE1	37:YC:106:GLN:HE22	1.74	0.53
37:YE:93:THR:HB	37:YE:151:TRP:CD1	2.44	0.53
37:YF:41:ARG:NH1	37:YF:44:SER:H	2.06	0.53
37:YI:5:LYS:HA	37:YI:8:LEU:HB2	1.89	0.53
37:YP:7:SER:O	37:YP:10:SER:OG	2.25	0.53
37:YW:112:SER:HA	37:YW:135:GLY:HA3	1.89	0.53
1:A:241:ILE:O	1:A:245:ILE:HG12	2.08	0.53
4:AE:89:PRO:HD2	4:BE:280:LYS:NZ	2.24	0.53
4:AG:214:ARG:NH1	4:AG:215:ARG:HG3	2.22	0.53
4:AI:402:ARG:NH2	35:XK:234:THR:HG23	2.23	0.53
3:AJ:267:MET:O	3:AJ:369:GLY:N	2.34	0.53
3:AJ:376:GLU:HA	3:AJ:379:LYS:HE3	1.90	0.53
4:AM:9:VAL:HG11	4:AM:150:ALA:HB2	1.90	0.53
4:AM:76:ASP:OD1	4:AM:79:ARG:NH1	2.42	0.53
5:B2:51:ASN:OD1	5:B2:52:GLN:N	2.41	0.53
5:B5:12:TYR:CE2	5:B5:17:TRP:HB2	2.35	0.53
5:B7:141:VAL:HA	5:B7:144:ILE:HD12	1.89	0.53
3:BB:176:SER:O	3:BB:178:THR:N	2.41	0.53
4:BC:229:ARG:HH22	4:BC:367:ASP:H	1.56	0.53
3:BD:7:LEU:HD13	3:BD:64:VAL:HB	1.90	0.53
4:BI:116:ASP:OD1	4:BI:117:LEU:N	2.41	0.53
4:BI:271:THR:HA	4:BI:302:MET:HE1	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BJ:206:ALA:O	3:BJ:210:ILE:HG12	2.08	0.53
4:BK:32:PRO:O	4:BK:85:GLN:NE2	2.41	0.53
4:BK:154:MET:HA	4:BK:157:LEU:HG	1.90	0.53
3:BL:2:ARG:HA	3:BL:129:CYS:O	2.09	0.53
6:C:179:ALA:O	6:C:180:MET:HE2	2.08	0.53
7:C3:107:PHE:CE1	7:C4:361:ILE:HG12	2.43	0.53
7:C5:426:GLU:O	7:C5:430:THR:HG23	2.08	0.53
3:CB:218:THR:OG1	3:CB:219:THR:N	2.42	0.53
4:CE:89:PRO:HD2	4:DC:280:LYS:NZ	2.23	0.53
4:CG:287:SER:OG	4:CG:290:GLU:OE1	2.23	0.53
4:CI:118:VAL:HA	4:CI:121:ARG:HG2	1.91	0.53
4:CM:182:VAL:HA	4:CM:185:TYR:HD2	1.74	0.53
4:CM:207:GLU:HB2	4:CM:304:LYS:HZ1	1.73	0.53
7:Ca:419:ARG:O	7:Ca:423:GLU:HG2	2.09	0.53
7:Cb:375:ILE:O	7:Cb:379:ILE:HG12	2.08	0.53
7:Cb:415:MET:HA	7:Cb:418:LEU:HD12	1.90	0.53
7:Cc:122:VAL:O	7:Cc:125:SER:OG	2.20	0.53
7:Cc:206:MET:SD	7:Cc:206:MET:N	2.81	0.53
6:D:384:LEU:HA	6:D:387:GLN:HB3	1.90	0.53
8:D2:188:GLU:HA	8:D2:191:LYS:HD2	1.90	0.53
8:D4:349:PRO:O	8:D4:352:VAL:HG22	2.08	0.53
8:D4:363:ARG:HD2	8:D4:367:GLU:HB3	1.89	0.53
8:D9:198:VAL:O	8:D9:202:ARG:HG2	2.08	0.53
3:DB:81:PHE:HD1	3:DB:84:ILE:HD13	1.72	0.53
3:DD:257:MET:O	3:DD:259:PRO:HD3	2.07	0.53
4:DE:207:GLU:HB2	4:DE:304:LYS:NZ	2.24	0.53
3:DF:120:VAL:O	3:DF:124:ALA:N	2.38	0.53
4:DG:88:HIS:CE1	4:DG:121:ARG:HH22	2.27	0.53
3:DH:328:GLU:OE2	3:DH:329:GLN:NE2	2.41	0.53
4:DI:11:GLN:HG3	39:DI:501:GTP:O1B	2.09	0.53
3:DJ:289:LEU:HD13	3:DJ:363:MET:HE2	1.91	0.53
10:E3:147:LYS:HD3	10:E3:148:GLU:O	2.08	0.53
4:EE:320:ARG:N	4:EE:374:ALA:O	2.39	0.53
3:EH:218:THR:OG1	3:EH:219:THR:N	2.42	0.53
4:EI:6:SER:HA	4:EI:136:LEU:HB2	1.90	0.53
4:EI:40:LYS:NZ	14:G6:716:LYS:HD2	2.23	0.53
3:EJ:46:ARG:HH22	4:EK:73:THR:HA	1.72	0.53
3:EJ:70:PRO:HA	3:EJ:73:MET:HE3	1.90	0.53
3:EJ:148:GLY:O	3:EJ:152:ILE:HG12	2.08	0.53
4:EK:186:ASN:OD1	4:EK:187:SER:N	2.41	0.53
11:F1:194:CYS:HB2	11:F1:215:LEU:HD21	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:F2:96:ASP:HA	11:F2:99:ASN:HD22	1.73	0.53
11:F2:193:GLU:O	11:F2:197:ASN:ND2	2.42	0.53
11:F7:391:MET:O	11:F7:394:THR:OG1	2.25	0.53
4:FA:33:ASP:OD1	4:FA:34:GLY:N	2.41	0.53
4:FC:394:LYS:O	4:FC:398:MET:HG2	2.08	0.53
4:FE:208:ALA:H	4:FE:304:LYS:NZ	2.06	0.53
4:FE:273:ALA:N	4:FE:377:MET:HE1	2.24	0.53
4:FI:89:PRO:HD2	4:GI:280:LYS:NZ	2.22	0.53
4:FI:207:GLU:HB2	4:FI:304:LYS:NZ	2.22	0.53
11:Fc:449:SER:O	11:Fc:453:HIS:ND1	2.41	0.53
11:Fj:301:ASN:O	11:Fj:305:ARG:HG2	2.08	0.53
11:Fm:124:MET:HG2	11:Fm:318:ARG:HH21	1.74	0.53
14:G5:171:ASP:O	14:G5:174:THR:OG1	2.17	0.53
14:G6:360:THR:HB	14:G6:364:TYR:CZ	2.43	0.53
14:G6:566:PHE:CD1	14:G6:585:ILE:HD12	2.44	0.53
3:GB:322:SER:OG	3:GB:323:MET:SD	2.67	0.53
4:GC:186:ASN:OD1	4:GC:187:SER:N	2.41	0.53
3:GF:151:LEU:HD22	3:GF:154:LYS:HZ1	1.72	0.53
3:GF:246:LEU:HB2	3:GF:352:ALA:HB1	1.90	0.53
4:GG:67:PHE:N	4:GG:91:GLN:O	2.36	0.53
3:GH:12:CYS:O	3:GH:15:GLN:N	2.42	0.53
3:GH:152:ILE:O	3:GH:156:ARG:HG3	2.09	0.53
3:GH:268:PRO:HD2	3:GH:301:ALA:HB2	1.91	0.53
3:GJ:257:MET:HG3	3:GJ:258:VAL:HG23	1.89	0.53
3:GJ:269:GLY:N	3:GJ:367:PHE:O	2.40	0.53
4:GK:30:ILE:HG13	4:GK:53:PHE:HE2	1.74	0.53
15:H2:218:ILE:O	15:H2:218:ILE:HG13	2.09	0.53
4:HA:180:ALA:HB1	4:HA:182:VAL:HG12	1.90	0.53
3:HB:273:LEU:H	3:HB:292:GLN:HE22	1.57	0.53
3:HD:12:CYS:SG	3:HD:13:GLY:N	2.81	0.53
4:HE:52:PHE:HZ	4:HE:239:THR:HB	1.73	0.53
4:HE:245:ASP:O	4:HE:356:ASN:ND2	2.41	0.53
4:HG:98:ASP:O	4:HG:105:ARG:NH2	2.36	0.53
4:HG:102:ASN:HD22	4:HG:105:ARG:HG3	1.74	0.53
3:HH:111:GLU:HG2	3:HH:112:LEU:HD12	1.91	0.53
3:HH:117:LEU:HD11	3:HH:154:LYS:HD2	1.89	0.53
3:HH:200:TYR:CE2	3:HH:233:MET:HE1	2.43	0.53
3:HH:285:THR:O	3:HH:288:GLU:HG3	2.07	0.53
3:HJ:262:ARG:HE	3:HJ:421:GLU:CD	2.16	0.53
3:HL:412:GLU:OE1	3:HL:412:GLU:N	2.35	0.53
16:I:114:LEU:HD13	38:a:62:SER:HB3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IB:289:LEU:HD21	3:IB:363:MET:HB3	1.89	0.53
3:IF:91:VAL:HG11	3:IF:116:VAL:HG12	1.91	0.53
4:IK:11:GLN:HB2	4:IK:74:VAL:HG11	1.88	0.53
4:IK:321:GLY:N	4:IK:356:ASN:O	2.20	0.53
4:IM:214:ARG:NH1	4:IM:215:ARG:HG3	2.23	0.53
3:JD:380:ARG:O	3:JD:384:GLN:HG2	2.08	0.53
3:JF:262:ARG:NH1	3:JF:425:TYR:OH	2.40	0.53
3:JJ:173:PRO:O	3:JJ:380:ARG:NH2	2.41	0.53
3:JL:19:LYS:NZ	3:JL:223:GLY:O	2.41	0.53
4:KA:123:ARG:NH1	4:KA:124:LYS:HB3	2.23	0.53
3:KD:72:THR:O	3:KD:75:SER:OG	2.24	0.53
3:KD:317:PHE:O	3:KD:354:CYS:N	2.36	0.53
4:KE:68:VAL:HG12	4:KE:93:ILE:HB	1.90	0.53
3:KF:5:VAL:HG23	3:KF:130:LEU:HD21	1.88	0.53
4:KI:47:ASP:O	4:KI:50:ASN:N	2.31	0.53
4:KI:337:THR:O	4:KI:339:ARG:NH1	2.41	0.53
3:KJ:175:VAL:HG22	3:KJ:177:ASP:H	1.73	0.53
3:KL:206:ALA:O	3:KL:210:ILE:HG12	2.08	0.53
3:KL:316:VAL:HG22	3:KL:352:ALA:HB3	1.91	0.53
4:LC:136:LEU:HB3	4:LC:138:PHE:CE2	2.44	0.53
4:LC:172:TYR:HB2	4:LC:203:MET:HB2	1.89	0.53
4:LC:397:LEU:O	4:LC:401:LYS:HG2	2.09	0.53
3:LF:173:PRO:O	3:LF:380:ARG:NH2	2.41	0.53
4:LG:32:PRO:O	4:LG:85:GLN:NE2	2.42	0.53
4:LG:408:TYR:CD2	4:LG:418:PHE:HZ	2.26	0.53
3:LH:134:GLN:HB2	3:LH:167:PHE:HE1	1.73	0.53
3:LH:388:MET:HB2	3:LH:393:ALA:HB3	1.90	0.53
4:LI:148:GLY:O	4:LI:151:SER:OG	2.24	0.53
3:MB:324:LYS:HD2	4:MC:221:ARG:HA	1.89	0.53
4:MC:391:LEU:O	4:MC:395:PHE:N	2.35	0.53
3:MD:250:LEU:O	3:MD:254:ALA:N	2.33	0.53
4:ME:161:TYR:O	4:ME:166:LYS:NZ	2.37	0.53
4:ME:201:ALA:H	4:ME:266:HIS:HD2	1.55	0.53
3:MF:374:ILE:HA	3:MF:377:LEU:HD13	1.91	0.53
4:MG:214:ARG:NH1	4:MG:215:ARG:HG3	2.24	0.53
4:MG:431:ASP:C	28:O2:46:ARG:HH21	2.16	0.53
4:MI:115:VAL:HA	4:MI:118:VAL:HG22	1.89	0.53
3:MJ:328:GLU:OE1	3:MJ:332:ASN:ND2	2.40	0.53
4:MK:216:ASN:HB2	4:MK:276:ILE:HD12	1.91	0.53
3:ML:117:LEU:HD11	3:ML:154:LYS:HD2	1.90	0.53
26:N3:160:LYS:HG3	26:N3:160:LYS:O	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:NC:206:ASN:HA	4:NC:209:ILE:HD12	1.91	0.53
4:NE:88:HIS:HB3	4:NE:91:GLN:HB2	1.90	0.53
4:OA:265:ILE:HD12	4:OA:432:TYR:CE1	2.43	0.53
3:OB:139:LEU:HD21	3:OB:170:VAL:HG22	1.89	0.53
4:OC:70:LEU:HA	4:OC:95:GLY:HA3	1.91	0.53
3:OD:218:THR:OG1	3:OD:219:THR:N	2.42	0.53
4:OG:76:ASP:OD1	4:OG:79:ARG:NH1	2.41	0.53
4:OG:244:PHE:HB2	4:OG:356:ASN:HD21	1.73	0.53
3:OH:344:TRP:O	4:OI:401:LYS:NZ	2.32	0.53
3:OJ:234:SER:O	3:OJ:238:THR:HG23	2.07	0.53
3:OJ:292:GLN:O	3:OJ:298:ASN:ND2	2.39	0.53
29:P1:292:GLY:N	29:P1:310:GLU:OE1	2.41	0.53
4:PA:186:ASN:OD1	4:PA:187:SER:N	2.41	0.53
4:PC:89:PRO:HD2	4:QC:280:LYS:HZ3	1.73	0.53
3:PF:118:ASP:OD1	3:PF:121:ARG:NH1	2.41	0.53
4:PG:88:HIS:CD2	4:QG:280:LYS:HZ3	2.27	0.53
3:PH:19:LYS:NZ	3:PH:223:GLY:O	2.41	0.53
4:PK:84:ARG:HH22	37:YR:124:HIS:HA	1.73	0.53
4:PM:144:GLY:N	39:PM:501:GTP:O2B	2.38	0.53
30:Q1:1414:LEU:HA	30:Q1:1418:MET:HE3	1.91	0.53
3:QF:81:PHE:O	3:QF:84:ILE:HG22	2.09	0.53
3:QH:12:CYS:HA	39:QH:501:GTP:HN22	1.74	0.53
4:QI:216:ASN:ND2	4:QI:275:VAL:O	2.41	0.53
3:QJ:3:GLU:OE2	3:QJ:127:CYS:HB2	2.09	0.53
3:QJ:131:GLN:HB3	3:QJ:163:ILE:HD12	1.89	0.53
4:QK:256:GLN:O	4:QK:260:VAL:HG12	2.08	0.53
3:QL:14:ASN:ND2	3:QL:67:ASP:OD2	2.41	0.53
3:QL:235:GLY:O	3:QL:238:THR:OG1	2.21	0.53
3:QL:324:LYS:HD2	4:QM:221:ARG:HA	1.91	0.53
27:R:151:ARG:HG2	27:R:155:GLN:HE21	1.73	0.53
31:R1:117:THR:O	31:R1:149:ILE:HD12	2.08	0.53
3:RD:174:LYS:CG	3:RD:175:VAL:HG12	2.38	0.53
3:RF:217:LEU:HD11	3:RF:220:PRO:HB3	1.89	0.53
3:RF:415:MET:O	3:RF:419:VAL:HG23	2.08	0.53
4:RG:261:PRO:HA	3:RH:394:PHE:CE1	2.43	0.53
3:RH:239:CYS:SG	3:RH:248:ALA:HA	2.47	0.53
3:RL:350:LYS:HE3	4:RM:181:VAL:H	1.73	0.53
4:RM:36:MET:HE3	4:RM:37:PRO:HD2	1.89	0.53
3:SF:378:PHE:CD1	3:SF:419:VAL:HG22	2.44	0.53
3:SH:258:VAL:HB	4:SI:407:TRP:HZ2	1.74	0.53
3:SL:214:THR:HG21	3:SL:273:LEU:HB3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:SM:104:ALA:HB1	4:SM:413:MET:HE3	1.90	0.53
3:TL:12:CYS:C	3:TL:15:GLN:H	2.16	0.53
3:UF:111:GLU:HG2	3:UF:112:LEU:HD12	1.91	0.53
3:UF:268:PRO:HD2	3:UF:301:ALA:HB2	1.90	0.53
3:UF:323:MET:HG2	3:UF:324:LYS:N	2.24	0.53
3:UF:412:GLU:HA	3:UF:415:MET:HE2	1.91	0.53
3:UH:256:ASN:HB3	3:UH:350:LYS:HG3	1.90	0.53
4:UI:102:ASN:HB3	4:UI:105:ARG:HB2	1.90	0.53
3:UL:58:LYS:HE2	3:VL:281:TYR:HE1	1.73	0.53
3:VD:269:GLY:N	3:VD:367:PHE:O	2.42	0.53
4:WE:10:GLY:O	4:WE:14:VAL:HG13	2.07	0.53
4:WG:68:VAL:HG12	4:WG:93:ILE:HB	1.89	0.53
3:WJ:54:ALA:HB3	3:WJ:58:LYS:HB3	1.90	0.53
4:WK:76:ASP:OD1	4:WK:79:ARG:NH1	2.41	0.53
4:WK:154:MET:HE1	4:WK:197:HIS:HB2	1.91	0.53
4:WK:256:GLN:O	4:WK:260:VAL:HG12	2.08	0.53
34:XD:79:ILE:HG23	34:XD:131:GLN:HE22	1.73	0.53
34:XG:71:ILE:HG21	34:XG:167:PHE:CD2	2.43	0.53
37:YE:1:MET:N	37:YE:3:GLU:OE1	2.38	0.53
37:YG:155:SER:HA	37:YG:158:LEU:HG	1.90	0.53
37:YH:113:LEU:HD22	37:YH:140:LEU:HA	1.89	0.53
37:YK:124:HIS:ND1	37:YK:124:HIS:O	2.41	0.53
4:AC:10:GLY:O	4:AC:14:VAL:HG13	2.07	0.53
4:AC:272:TYR:CZ	4:AC:274:PRO:HG2	2.44	0.53
4:AC:402:ARG:NH2	35:XH:234:THR:HG23	2.23	0.53
3:AD:211:CYS:HA	3:AD:215:LEU:HB2	1.90	0.53
3:AF:166:THR:OG1	3:AF:198:GLU:O	2.22	0.53
3:AF:350:LYS:HE3	4:AG:181:VAL:H	1.73	0.53
4:AI:3:GLU:OE2	4:AI:130:THR:N	2.36	0.53
5:B4:134:GLU:O	5:B4:138:LEU:HG	2.09	0.53
5:B6:73:ARG:O	5:B6:76:GLU:HG3	2.07	0.53
5:B6:120:ARG:HH21	5:B6:386:LEU:HB3	1.73	0.53
5:B6:205:PRO:HG3	5:B7:315:HIS:NE2	2.23	0.53
3:BB:12:CYS:HB3	39:BB:501:GTP:H5'	1.91	0.53
4:BK:214:ARG:NH1	4:BK:215:ARG:HG3	2.23	0.53
6:C:25:ARG:HD2	6:C:46:LEU:HB3	1.91	0.53
7:C2:323:GLU:HA	7:C2:326:GLU:HG3	1.89	0.53
7:C3:202:ARG:HH21	7:C3:473:CYS:HB2	1.73	0.53
7:C4:309:LEU:HD23	7:C4:312:GLN:NE2	2.23	0.53
7:C7:318:SER:O	7:C7:322:ARG:HG3	2.08	0.53
3:CB:412:GLU:HA	3:CB:415:MET:HE2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CG:216:ASN:HD21	4:CG:275:VAL:HG23	1.73	0.53
4:CK:420:GLU:HG2	4:CK:424:ASP:OD2	2.09	0.53
3:CL:80:PRO:O	3:CL:83:GLN:NE2	2.36	0.53
3:CL:374:ILE:HD13	3:CL:422:TYR:HE2	1.74	0.53
4:CM:115:VAL:O	4:CM:119:LEU:N	2.31	0.53
8:D2:97:LEU:HB3	8:D2:101:ARG:HH22	1.74	0.53
8:D2:198:VAL:O	8:D2:202:ARG:HG2	2.07	0.53
8:D4:142:LEU:O	8:D4:145:THR:OG1	2.24	0.53
8:D4:315:LEU:HB3	8:D4:319:GLN:HE22	1.73	0.53
8:D7:119:ARG:HG3	8:D7:120:GLU:N	2.23	0.53
3:DB:11:GLN:HG3	39:DB:501:GTP:PA	2.49	0.53
4:DC:274:PRO:HG3	4:DC:374:ALA:HA	1.91	0.53
3:DD:15:GLN:HG3	3:DD:222:TYR:HE2	1.72	0.53
4:DE:264:ARG:O	4:DE:266:HIS:ND1	2.40	0.53
4:DG:12:ALA:O	39:DG:501:GTP:N1	2.41	0.53
3:DH:323:MET:SD	3:DH:323:MET:N	2.81	0.53
10:E3:185:GLN:NE2	10:E3:186:ARG:O	2.42	0.53
3:ED:19:LYS:NZ	3:ED:223:GLY:O	2.41	0.53
3:EF:245:GLN:OE1	4:EG:15:GLN:NE2	2.42	0.53
4:EI:11:GLN:NE2	39:EI:501:GTP:O3A	2.41	0.53
4:EI:272:TYR:CZ	4:EI:274:PRO:HG2	2.43	0.53
3:EJ:28:HIS:O	3:EJ:43:GLN:NE2	2.41	0.53
4:EK:20:CYS:O	4:EK:24:TYR:N	2.33	0.53
3:FB:379:LYS:O	3:FB:382:SER:OG	2.18	0.53
3:FD:257:MET:HE3	3:FD:370:ASN:ND2	2.23	0.53
4:FG:269:LEU:N	4:FG:379:SER:O	2.28	0.53
4:FI:154:MET:HE1	4:FI:197:HIS:HB2	1.91	0.53
4:FK:206:ASN:HA	4:FK:209:ILE:HD12	1.91	0.53
11:Fa:242:ASP:HB3	11:Fa:310:MET:HE3	1.90	0.53
11:Fc:101:LEU:HD23	11:Fc:104:ARG:HE	1.74	0.53
11:Fg:385:LYS:NZ	11:Fg:426:THR:O	2.41	0.53
11:Fi:379:GLU:O	11:Fi:382:ILE:HG22	2.09	0.53
11:Fj:351:THR:O	11:Fj:354:LYS:HG3	2.09	0.53
11:Fm:323:HIS:O	11:Fm:326:GLU:HG2	2.09	0.53
14:G4:531:ASN:O	14:G4:534:GLU:HG2	2.07	0.53
14:G5:623:ALA:HA	14:G5:626:LYS:HE2	1.91	0.53
14:G6:437:PHE:HE1	14:G6:453:VAL:HG22	1.73	0.53
4:GA:32:PRO:O	4:GA:85:GLN:NE2	2.41	0.53
3:GB:15:GLN:NE2	39:GB:501:GTP:HN1	2.06	0.53
3:GF:130:LEU:H	3:GF:162:ARG:NH1	2.06	0.53
4:GG:3:GLU:N	4:GG:133:GLN:OE1	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:GG:186:ASN:O	4:GG:190:THR:HG23	2.08	0.53
3:GH:317:PHE:O	3:GH:354:CYS:N	2.32	0.53
3:GH:344:TRP:O	4:GI:401:LYS:NZ	2.26	0.53
4:GK:315:CYS:SG	4:GK:377:MET:HE1	2.48	0.53
3:GL:100:ASN:HB3	3:GL:103:LYS:HB3	1.90	0.53
15:H4:26:GLN:HE21	15:H4:29:TYR:HD2	1.56	0.53
15:H6:34:THR:O	15:H6:38:THR:OG1	2.19	0.53
4:HA:386:GLU:O	4:HA:390:ARG:NH1	2.42	0.53
3:HF:213:ARG:NH1	3:HF:297:LYS:O	2.42	0.53
4:HI:32:PRO:O	4:HI:85:GLN:NE2	2.41	0.53
4:HI:302:MET:SD	4:HI:302:MET:N	2.82	0.53
3:HJ:118:ASP:OD1	3:HJ:121:ARG:NH1	2.41	0.53
3:IB:113:VAL:HB	3:IB:154:LYS:HE3	1.90	0.53
4:IC:423:GLU:HA	4:IC:426:ALA:HB3	1.90	0.53
3:ID:217:LEU:HD11	3:ID:220:PRO:HB3	1.89	0.53
4:IG:89:PRO:HD3	3:JF:281:TYR:CE2	2.44	0.53
3:IH:380:ARG:O	3:IH:384:GLN:HG2	2.08	0.53
3:IJ:306:ARG:O	3:IJ:306:ARG:NE	2.37	0.53
4:IK:186:ASN:OD1	4:IK:187:SER:N	2.41	0.53
4:IM:68:VAL:HG12	4:IM:93:ILE:HB	1.89	0.53
3:JB:47:ILE:HG12	3:JB:59:TYR:CD2	2.43	0.53
3:JB:173:PRO:O	3:JB:380:ARG:NH2	2.42	0.53
3:JJ:357:PRO:O	3:JJ:359:ARG:NH1	2.40	0.53
20:K:73:VAL:HG22	20:K:92:SER:HB3	1.90	0.53
3:KB:317:PHE:HB3	3:KB:321:MET:HE3	1.91	0.53
3:KD:374:ILE:HG23	3:KD:377:LEU:HD12	1.90	0.53
4:KE:51:THR:HG23	4:KE:52:PHE:CD2	2.44	0.53
4:KE:220:GLU:O	4:KE:221:ARG:NE	2.40	0.53
3:KF:113:VAL:HB	3:KF:154:LYS:HE2	1.91	0.53
4:KK:51:THR:HG23	4:KK:52:PHE:CD2	2.43	0.53
3:KL:282:ARG:NH2	3:KL:292:GLN:OE1	2.22	0.53
22:L1:177:GLN:O	22:L1:180:LEU:HG	2.09	0.53
22:L3:128:LYS:HE3	4:MK:215:ARG:HA	1.90	0.53
22:L4:26:ARG:NH1	22:L4:32:ARG:HB3	2.23	0.53
4:LA:282:TYR:HD1	27:Q:163:PHE:HB3	1.72	0.53
4:LC:207:GLU:HB2	4:LC:304:LYS:HZ1	1.73	0.53
4:LC:208:ALA:N	4:LC:304:LYS:HZ1	2.05	0.53
3:LD:7:LEU:HD13	3:LD:64:VAL:HB	1.90	0.53
3:LD:324:LYS:HE3	4:LE:221:ARG:CA	2.38	0.53
4:LG:168:GLU:HB2	4:LG:201:ALA:HA	1.89	0.53
3:LH:139:LEU:N	3:LH:168:SER:OG	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LJ:131:GLN:HB3	3:LJ:163:ILE:HD12	1.90	0.53
3:LJ:132:GLY:HA3	3:LJ:163:ILE:H	1.73	0.53
3:LJ:324:LYS:HE2	4:LK:222:PRO:N	2.23	0.53
3:LL:282:ARG:NH2	3:LL:292:GLN:OE1	2.32	0.53
24:M3:63:ASN:N	24:M3:67:ARG:HH21	2.06	0.53
3:MB:48:ASN:HA	3:MB:51:TYR:O	2.09	0.53
4:MC:105:ARG:O	4:MC:109:THR:OG1	2.16	0.53
4:MI:316:CYS:N	4:MI:378:LEU:O	2.26	0.53
3:NB:3:GLU:HG2	3:NB:130:LEU:HD23	1.90	0.53
4:NE:54:SER:HB2	4:NE:62:VAL:HB	1.90	0.53
3:NH:380:ARG:O	3:NH:384:GLN:HG2	2.09	0.53
4:NK:34:GLY:HA2	4:NK:86:LEU:HD11	1.90	0.53
4:OA:11:GLN:HB2	4:OA:74:VAL:HG21	1.90	0.53
4:OC:172:TYR:N	4:OC:204:VAL:O	2.30	0.53
3:OD:16:ILE:HD13	3:OD:226:ASN:ND2	2.23	0.53
3:OD:176:SER:O	3:OD:178:THR:N	2.41	0.53
3:OH:28:HIS:ND1	3:OH:43:GLN:HB2	2.23	0.53
3:OH:176:SER:O	3:OH:178:THR:N	2.42	0.53
3:OJ:19:LYS:NZ	3:OJ:223:GLY:O	2.41	0.53
3:OJ:299:MET:HE3	3:OJ:299:MET:HA	1.90	0.53
4:OK:216:ASN:HB2	4:OK:276:ILE:HD12	1.90	0.53
29:P3:508:VAL:HG23	29:P3:519:THR:HG22	1.91	0.53
3:PD:2:ARG:NH1	4:PE:96:LYS:HB3	2.22	0.53
4:PE:207:GLU:HB2	4:PE:304:LYS:HZ1	1.73	0.53
4:PG:188:ILE:HG13	4:PG:421:ALA:HB1	1.89	0.53
3:PH:139:LEU:N	3:PH:168:SER:OG	2.39	0.53
4:PK:76:ASP:OD1	4:PK:79:ARG:NH1	2.42	0.53
3:PL:91:VAL:HG11	3:PL:116:VAL:HG12	1.91	0.53
3:PL:293:MET:HE3	3:PL:367:PHE:HB2	1.91	0.53
3:QB:4:ILE:HB	3:QB:50:TYR:CE1	2.43	0.53
3:QB:286:VAL:HG21	3:QB:325:GLU:HG3	1.91	0.53
4:QC:160:ASP:OD1	4:QC:161:TYR:N	2.42	0.53
3:QF:218:THR:OG1	3:QF:219:THR:N	2.42	0.53
4:QI:206:ASN:HA	4:QI:209:ILE:HD12	1.91	0.53
3:QJ:77:ARG:O	3:QJ:77:ARG:NH1	2.37	0.53
3:QJ:324:LYS:NZ	4:QK:222:PRO:O	2.23	0.53
4:QK:286:LEU:HD11	4:QK:373:ARG:H	1.73	0.53
3:QL:39:ASP:OD1	3:QL:43:GLN:NE2	2.41	0.53
4:QM:2:ARG:HA	4:QM:133:GLN:HE22	1.72	0.53
4:RE:234:ILE:HD11	4:RE:272:TYR:HB2	1.90	0.53
3:RF:379:LYS:O	3:RF:382:SER:OG	2.18	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:RI:315:CYS:N	4:RI:350:GLY:O	2.40	0.53
3:RJ:178:THR:HB	3:RJ:181:GLU:HB2	1.90	0.53
3:RJ:214:THR:HG21	3:RJ:273:LEU:HB3	1.91	0.53
3:RJ:250:LEU:HD13	3:RJ:253:LEU:HD12	1.89	0.53
4:SC:319:TYR:N	4:SC:354:GLY:O	2.40	0.53
3:SD:255:VAL:HA	4:SE:407:TRP:CE2	2.43	0.53
3:SH:317:PHE:O	3:SH:354:CYS:N	2.31	0.53
3:SJ:324:LYS:HE2	4:SK:222:PRO:CD	2.39	0.53
4:SK:12:ALA:HB1	39:SK:501:GTP:N3	2.24	0.53
4:SK:272:TYR:CZ	4:SK:274:PRO:HG2	2.44	0.53
3:SL:317:PHE:HB3	3:SL:321:MET:HE3	1.90	0.53
32:T:366:VAL:O	32:T:370:ASP:N	2.41	0.53
4:TC:32:PRO:O	4:TC:85:GLN:NE2	2.42	0.53
4:TC:423:GLU:HA	4:TC:426:ALA:HB3	1.89	0.53
3:TD:4:ILE:HB	3:TD:50:TYR:CE1	2.43	0.53
3:TD:70:PRO:HA	3:TD:73:MET:HE3	1.88	0.53
3:TD:101:TRP:HB2	3:TD:184:ASN:HD22	1.72	0.53
33:U:494:LEU:HA	33:U:497:PHE:CE1	2.44	0.53
4:UA:271:THR:HB	4:UA:377:MET:HE2	1.90	0.53
3:UD:52:ASN:OD1	3:UD:62:ARG:NH1	2.41	0.53
4:UE:262:TYR:CE1	3:UF:393:ALA:HA	2.43	0.53
3:UJ:117:LEU:HD11	3:UJ:154:LYS:HD2	1.89	0.53
3:UJ:350:LYS:HE3	4:UK:181:VAL:H	1.74	0.53
3:UJ:419:VAL:HG12	3:UJ:423:GLN:HE22	1.73	0.53
4:VA:288:VAL:O	4:VA:292:THR:OG1	2.23	0.53
4:VE:324:VAL:HG11	3:VF:219:THR:HB	1.91	0.53
4:VE:324:VAL:HG21	3:VF:219:THR:HG22	1.90	0.53
3:VF:3:GLU:HG2	3:VF:130:LEU:HD23	1.89	0.53
4:VG:214:ARG:NH1	4:VG:215:ARG:HG3	2.23	0.53
3:VJ:392:LYS:HB2	3:VJ:395:LEU:HD13	1.89	0.53
4:VK:346:TRP:HE1	3:VL:391:ARG:NH1	2.07	0.53
4:WA:203:MET:SD	4:WA:203:MET:N	2.81	0.53
3:WB:324:LYS:HD2	4:WC:221:ARG:HA	1.91	0.53
3:WB:423:GLN:O	3:WB:427:ASP:N	2.42	0.53
3:WD:379:LYS:O	3:WD:382:SER:OG	2.20	0.53
3:WF:246:LEU:HB2	3:WF:352:ALA:HB1	1.90	0.53
3:WF:385:PHE:HZ	3:WF:408:PHE:HB3	1.73	0.53
4:WG:91:GLN:HG3	4:WG:121:ARG:HH21	1.73	0.53
4:WI:223:THR:OG1	4:WI:225:THR:OG1	2.12	0.53
4:WI:256:GLN:O	4:WI:260:VAL:HG12	2.09	0.53
3:WJ:155:ILE:HA	3:WJ:158:GLU:HB2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:WJ:323:MET:SD	3:WJ:324:LYS:NZ	2.77	0.53
3:WL:239:CYS:SG	3:WL:316:VAL:HG11	2.49	0.53
34:XE:89:PHE:HB2	34:XE:156:ILE:HD13	1.91	0.53
34:XF:24:ILE:HG13	34:XF:62:PRO:HA	1.90	0.53
35:XL:100:LEU:HD21	35:XL:152:THR:HG22	1.89	0.53
37:YB:57:CYS:O	37:YB:63:ARG:NH1	2.38	0.53
37:YB:125:LEU:HD13	37:YB:134:TYR:HB3	1.91	0.53
37:YF:136:GLY:C	37:YF:140:LEU:HG	2.34	0.53
37:YJ:4:VAL:HG11	37:YJ:83:PHE:CZ	2.43	0.53
37:YN:30:GLU:OE1	37:YN:33:ARG:NH2	2.40	0.53
37:YP:84:GLU:HG2	37:YP:101:LYS:HD3	1.91	0.53
37:YW:69:PHE:O	37:YW:73:CYS:N	2.35	0.53
1:A:255:TRP:CH2	4:HC:364:PRO:HA	2.42	0.53
1:A:285:MET:C	1:A:289:HIS:HD1	2.16	0.53
3:AD:12:CYS:SG	39:AD:501:GTP:H5'	2.48	0.53
4:AE:188:ILE:HG22	4:AE:421:ALA:HB1	1.90	0.53
4:AE:206:ASN:HA	4:AE:209:ILE:HD12	1.89	0.53
3:AH:172:SER:HB3	3:AH:175:VAL:O	2.09	0.53
4:AI:316:CYS:N	4:AI:378:LEU:O	2.28	0.53
3:AJ:41:ASP:OD1	3:AJ:41:ASP:N	2.40	0.53
4:AM:236:SER:O	4:AM:243:ARG:NH2	2.37	0.53
5:B1:139:LYS:HE3	5:B1:257:GLN:NE2	2.23	0.53
5:B2:160:GLN:O	5:B2:164:LEU:HG	2.08	0.53
5:B3:149:LYS:O	5:B3:152:GLN:NE2	2.41	0.53
5:B4:122:SER:O	5:B4:124:ARG:NH1	2.41	0.53
5:B8:49:THR:HG23	19:J1:97:ARG:NH2	2.23	0.53
5:B9:307:LYS:NZ	5:B9:352:MET:HG3	2.24	0.53
3:BB:375:GLN:HA	3:BB:378:PHE:CZ	2.44	0.53
3:BD:4:ILE:HD11	3:BD:131:GLN:HB2	1.89	0.53
3:BD:5:VAL:HG23	3:BD:130:LEU:HD21	1.89	0.53
3:BF:346:PRO:HD2	4:BG:398:MET:HE1	1.91	0.53
3:BH:77:ARG:HD3	3:BH:90:PHE:HE2	1.74	0.53
3:BJ:132:GLY:HA3	3:BJ:163:ILE:HB	1.91	0.53
4:BK:7:ILE:N	4:BK:136:LEU:O	2.30	0.53
4:BM:51:THR:HG23	4:BM:52:PHE:CD2	2.43	0.53
6:C:151:GLU:HG2	6:C:240:PHE:CZ	2.43	0.53
7:C7:358:LYS:HA	7:C7:462:LYS:HZ2	1.73	0.53
7:C8:114:ARG:NH2	7:C9:364:HIS:O	2.42	0.53
3:CF:289:LEU:HD21	3:CF:363:MET:HB3	1.91	0.53
3:CH:10:GLY:H	3:CH:147:MET:HE1	1.74	0.53
4:CI:75:VAL:HG22	4:CI:79:ARG:HH21	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CK:201:ALA:H	4:CK:266:HIS:HD2	1.56	0.53
4:CK:433:GLU:O	4:CK:437:VAL:N	2.40	0.53
4:CM:208:ALA:H	4:CM:304:LYS:NZ	2.06	0.53
7:Cb:363:THR:O	7:Cb:366:THR:OG1	2.24	0.53
8:D2:80:GLU:C	8:D3:394:LYS:HZ3	2.17	0.53
8:D3:188:GLU:HA	8:D3:191:LYS:HD2	1.90	0.53
8:D7:234:GLU:N	8:D7:234:GLU:OE1	2.41	0.53
8:D7:337:ALA:HA	8:D7:340:LYS:HE3	1.90	0.53
4:DA:50:ASN:O	4:DA:64:ARG:NH1	2.41	0.53
3:DB:3:GLU:OE2	3:DB:129:CYS:N	2.42	0.53
3:DD:378:PHE:HA	3:DD:381:ILE:HG12	1.90	0.53
4:DE:433:GLU:O	4:DE:437:VAL:N	2.33	0.53
4:DG:52:PHE:HZ	4:DG:239:THR:HB	1.74	0.53
3:DH:30:ILE:HG13	3:DH:36:TYR:HD1	1.74	0.53
3:DH:130:LEU:HB2	3:DH:162:ARG:NH1	2.24	0.53
3:DJ:218:THR:OG1	3:DJ:219:THR:N	2.42	0.53
3:DL:239:CYS:SG	3:DL:316:VAL:HG21	2.49	0.53
9:E:453:LYS:O	9:E:455:ARG:NH1	2.41	0.53
3:ED:20:PHE:CZ	3:ED:24:ILE:HD11	2.43	0.53
4:EE:139:HIS:CD2	4:EE:170:ALA:HB2	2.44	0.53
3:EH:187:LEU:HD21	3:EH:408:PHE:HE1	1.74	0.53
3:EJ:135:LEU:O	3:EJ:167:PHE:N	2.41	0.53
3:EL:204:ASN:HA	3:EL:207:LEU:HD12	1.91	0.53
11:F6:144:GLN:HG3	11:Fb:140:ARG:NE	2.24	0.53
11:F7:141:ASN:HA	11:F7:144:GLN:OE1	2.07	0.53
3:FB:2:ARG:HA	3:FB:129:CYS:O	2.09	0.53
3:FB:8:GLN:NE2	3:FB:136:THR:OG1	2.42	0.53
3:FB:206:ALA:O	3:FB:210:ILE:HG12	2.07	0.53
3:FB:250:LEU:O	3:FB:254:ALA:N	2.25	0.53
4:FC:10:GLY:O	4:FC:13:GLY:N	2.42	0.53
4:FC:371:VAL:HG11	4:FC:374:ALA:HB2	1.89	0.53
3:FD:197:ASP:OD1	3:FD:198:GLU:N	2.41	0.53
3:FF:405:GLU:HA	3:FF:408:PHE:HD2	1.74	0.53
4:FG:1:MET:O	4:FG:131:GLY:HA3	2.08	0.53
4:FG:88:HIS:HB3	4:FG:91:GLN:HG3	1.89	0.53
4:FG:139:HIS:CE1	4:FG:168:GLU:HB2	2.44	0.53
3:FH:11:GLN:OE1	39:FH:501:GTP:N2	2.42	0.53
4:FI:265:ILE:HD12	4:FI:432:TYR:CE1	2.43	0.53
3:FJ:215:LEU:HD11	3:FJ:228:LEU:HD11	1.90	0.53
3:FJ:415:MET:O	3:FJ:419:VAL:HG23	2.09	0.53
3:FL:254:ALA:O	3:FL:258:VAL:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Fa:137:GLY:HA2	11:Fa:140:ARG:HD2	1.90	0.53
11:Fc:128:ASP:N	11:Fc:128:ASP:OD1	2.41	0.53
11:Fe:365:LEU:HD21	11:Fe:448:LYS:HD3	1.91	0.53
11:Fk:195:LEU:O	11:Fk:198:ARG:HG3	2.08	0.53
11:Fk:431:LYS:HD2	11:Fk:435:ARG:HH22	1.74	0.53
13:G3:106:ASP:HA	13:G3:115:TYR:HA	1.90	0.53
14:G4:308:GLY:HA2	14:G4:313:TRP:CZ2	2.44	0.53
14:G4:550:GLN:O	14:G4:554:GLN:HG3	2.08	0.53
14:G5:144:ASP:N	14:G5:144:ASP:OD1	2.41	0.53
14:G5:581:THR:O	14:G5:585:ILE:HG12	2.09	0.53
14:G6:226:ASP:O	14:G6:228:LYS:NZ	2.39	0.53
14:G6:509:ILE:HG21	14:G6:600:ILE:HG13	1.90	0.53
3:GB:282:ARG:NH2	3:GB:292:GLN:OE1	2.34	0.53
4:GC:160:ASP:OD1	4:GC:161:TYR:N	2.42	0.53
3:GF:1:MET:HE1	3:GF:49:VAL:HA	1.90	0.53
4:GG:120:ASP:O	4:GG:124:LYS:HD3	2.07	0.53
4:GI:336:LYS:HZ1	3:GJ:175:VAL:HB	1.74	0.53
4:GK:319:TYR:HB2	4:GK:355:ILE:HD13	1.91	0.53
3:HB:326:VAL:O	3:HB:329:GLN:HG3	2.09	0.53
3:HF:311:LEU:HD11	3:HF:372:THR:HG23	1.91	0.53
3:HH:150:LEU:O	3:HH:153:SER:OG	2.24	0.53
3:IB:11:GLN:HG3	39:IB:501:GTP:PA	2.49	0.53
4:IC:67:PHE:O	4:IC:93:ILE:N	2.41	0.53
3:IF:11:GLN:HE21	39:IF:501:GTP:H3'	1.73	0.53
4:IG:224:TYR:HE2	39:IG:501:GTP:C5	2.27	0.53
3:IH:273:LEU:O	3:IH:292:GLN:NE2	2.41	0.53
4:II:141:PHE:HB2	4:II:173:PRO:HD3	1.90	0.53
4:II:186:ASN:HA	4:II:189:LEU:HD12	1.91	0.53
3:IL:285:THR:O	3:IL:288:GLU:HG3	2.09	0.53
4:IM:311:LYS:N	4:IM:382:THR:OG1	2.42	0.53
19:J2:146:ASN:HA	19:J2:149:TRP:HD1	1.74	0.53
19:J2:177:ASN:O	19:J2:181:LYS:N	2.36	0.53
3:JB:3:GLU:OE2	3:JB:127:CYS:HB2	2.09	0.53
3:JD:218:THR:OG1	3:JD:219:THR:N	2.42	0.53
4:JE:108:TYR:O	4:JE:112:LYS:NZ	2.31	0.53
3:JH:12:CYS:HA	39:JH:501:GTP:N2	2.23	0.53
4:JI:102:ASN:HB3	4:JI:105:ARG:HB2	1.89	0.53
4:JI:125:LEU:HD13	4:JI:128:LEU:HD21	1.90	0.53
4:JI:154:MET:HA	4:JI:157:LEU:HG	1.90	0.53
4:JK:229:ARG:HE	4:JK:368:LEU:HD22	1.73	0.53
21:K4:189:GLU:HG2	21:K4:190:LYS:N	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:KC:46:ASP:HA	4:KC:50:ASN:HB3	1.90	0.53
3:KF:4:ILE:HD11	3:KF:131:GLN:HB2	1.90	0.53
3:KF:117:LEU:HD21	3:KF:154:LYS:HD3	1.89	0.53
3:KF:269:GLY:N	3:KF:367:PHE:O	2.42	0.53
3:KH:52:ASN:OD1	3:KH:62:ARG:NH1	2.41	0.53
3:KH:218:THR:OG1	3:KH:219:THR:N	2.41	0.53
4:KI:24:TYR:O	4:KI:28:HIS:ND1	2.24	0.53
4:KI:187:SER:O	4:KI:190:THR:OG1	2.24	0.53
4:KK:324:VAL:HG11	3:KL:219:THR:HB	1.90	0.53
22:L1:241:ILE:HD12	22:L1:244:ILE:HD11	1.91	0.53
4:LA:36:MET:HE2	4:LA:36:MET:HA	1.90	0.53
4:LA:204:VAL:HG23	4:LA:302:MET:HG3	1.90	0.53
4:LE:30:ILE:HD13	4:LE:36:MET:HE3	1.91	0.53
3:LH:156:ARG:NH1	3:LH:195:ASN:O	2.41	0.53
3:LJ:206:ALA:O	3:LJ:210:ILE:HG12	2.08	0.53
3:LJ:289:LEU:O	3:LJ:293:MET:HG2	2.08	0.53
3:MB:16:ILE:HD13	3:MB:226:ASN:HD22	1.72	0.53
4:MC:423:GLU:HA	4:MC:426:ALA:HB3	1.89	0.53
3:MD:56:GLY:O	3:MD:58:LYS:NZ	2.40	0.53
4:MG:271:THR:HB	4:MG:377:MET:HE3	1.91	0.53
3:MH:217:LEU:O	3:MH:219:THR:N	2.41	0.53
3:MJ:19:LYS:NZ	3:MJ:223:GLY:O	2.41	0.53
3:MJ:380:ARG:O	3:MJ:384:GLN:HG2	2.09	0.53
3:ML:91:VAL:HG11	3:ML:116:VAL:HG12	1.91	0.53
3:ML:269:GLY:N	3:ML:367:PHE:O	2.41	0.53
3:NF:258:VAL:O	4:NG:407:TRP:NE1	2.41	0.53
3:NJ:235:GLY:O	3:NJ:238:THR:OG1	2.21	0.53
4:NK:12:ALA:HB2	39:NK:501:GTP:H5"	1.90	0.53
4:NK:287:SER:OG	4:NK:290:GLU:OE1	2.21	0.53
3:NL:378:PHE:CD1	3:NL:419:VAL:HG22	2.44	0.53
28:O3:8:ASN:O	28:O3:10:TYR:N	2.41	0.53
4:OA:358:GLN:NE2	4:OA:359:PRO:O	2.38	0.53
4:OC:265:ILE:HD12	4:OC:432:TYR:CE1	2.43	0.53
4:OC:392:ASP:OD1	4:OC:393:HIS:N	2.42	0.53
3:OD:3:GLU:HG2	3:OD:130:LEU:HD23	1.90	0.53
3:OD:11:GLN:HE21	39:OD:501:GTP:H3'	1.73	0.53
4:OI:286:LEU:HD11	4:OI:373:ARG:H	1.73	0.53
3:OJ:176:SER:O	3:OJ:178:THR:N	2.42	0.53
4:PA:50:ASN:O	4:PA:64:ARG:NH1	2.41	0.53
3:PJ:245:GLN:HE22	4:PK:15:GLN:HE22	1.56	0.53
4:PK:49:PHE:O	4:PK:53:PHE:N	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:PK:338:LYS:HZ2	4:PK:340:THR:H	1.54	0.53
3:PL:295:ASP:HB2	3:PL:298:ASN:HB2	1.90	0.53
4:PM:12:ALA:HB1	39:PM:501:GTP:C2	2.44	0.53
27:Q:48:VAL:O	27:Q:51:GLN:NE2	2.41	0.53
30:Q3:1386:TYR:HB3	30:Q3:1395:ALA:H	1.73	0.53
3:QB:383:GLU:OE2	3:QB:383:GLU:N	2.32	0.53
4:QE:139:HIS:CD2	4:QE:170:ALA:HB2	2.43	0.53
4:QE:398:MET:HE3	4:QE:398:MET:HA	1.89	0.53
4:QE:415:GLU:OE1	4:QE:415:GLU:N	2.32	0.53
4:QG:32:PRO:O	4:QG:85:GLN:NE2	2.42	0.53
4:QG:171:ILE:HD12	4:QG:204:VAL:HG13	1.90	0.53
3:QJ:28:HIS:ND1	3:QJ:43:GLN:HB2	2.23	0.53
4:QM:392:ASP:OD1	4:QM:393:HIS:N	2.42	0.53
3:RD:11:GLN:HE21	39:RD:501:GTP:H3'	1.74	0.53
4:RE:139:HIS:CD2	4:RE:170:ALA:HB2	2.44	0.53
4:RG:258:ASN:HA	3:RH:394:PHE:HE2	1.73	0.53
4:RI:154:MET:HE1	4:RI:197:HIS:HB2	1.91	0.53
4:RM:264:ARG:O	4:RM:266:HIS:ND1	2.42	0.53
3:SF:218:THR:OG1	3:SF:219:THR:N	2.42	0.53
3:SF:289:LEU:O	3:SF:293:MET:HG2	2.08	0.53
4:SI:258:ASN:HA	3:SJ:394:PHE:HE2	1.73	0.53
4:SK:386:GLU:HA	4:SK:389:ALA:HB3	1.89	0.53
4:SM:316:CYS:N	4:SM:378:LEU:O	2.37	0.53
3:TD:13:GLY:HA2	3:TD:16:ILE:HB	1.90	0.53
3:TD:258:VAL:HB	4:TE:407:TRP:CZ2	2.42	0.53
3:TF:11:GLN:HG3	39:TF:501:GTP:PA	2.49	0.53
4:TG:318:LEU:H	4:TG:375:VAL:HG23	1.74	0.53
4:TI:331:ALA:O	4:TI:334:THR:OG1	2.24	0.53
4:TI:395:PHE:HA	4:TI:398:MET:HE2	1.91	0.53
4:TM:36:MET:HE3	4:TM:61:HIS:CE1	2.43	0.53
4:TM:214:ARG:NH1	4:TM:215:ARG:HG3	2.24	0.53
4:UC:256:GLN:O	4:UC:260:VAL:HG12	2.09	0.53
3:UD:268:PRO:HD2	3:UD:301:ALA:HB2	1.91	0.53
4:UE:329:ASN:OD1	4:UE:330:ALA:N	2.42	0.53
4:UI:3:GLU:OE2	4:UI:130:THR:N	2.33	0.53
3:UJ:235:GLY:O	3:UJ:238:THR:OG1	2.21	0.53
4:VE:49:PHE:O	4:VE:53:PHE:N	2.41	0.53
4:VE:115:VAL:HG21	4:VE:156:ARG:HD3	1.91	0.53
4:WC:70:LEU:HD11	4:WC:149:PHE:CE2	2.43	0.53
4:WC:72:PRO:HA	4:WC:75:VAL:HG12	1.90	0.53
3:WF:289:LEU:HD22	3:WF:363:MET:HE2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:WF:309:ARG:HE	3:WF:426:GLN:HE21	1.56	0.53
3:WH:13:GLY:HA2	3:WH:16:ILE:HB	1.89	0.53
4:WI:22:GLU:O	4:WI:26:LEU:HD23	2.08	0.53
4:WI:72:PRO:HA	4:WI:75:VAL:HG12	1.90	0.53
3:WJ:2:ARG:HA	3:WJ:129:CYS:O	2.09	0.53
3:WL:132:GLY:HA2	3:WL:162:ARG:HB3	1.90	0.53
33:X:456:GLN:OE1	33:X:459:ARG:NE	2.34	0.53
34:XA:1:MET:HG3	34:XA:68:THR:O	2.09	0.53
34:XB:92:GLN:HE21	34:XB:100:ARG:HB3	1.74	0.53
34:XC:3:LYS:C	34:XC:3:LYS:HD3	2.33	0.53
35:XI:209:ILE:O	35:XI:212:THR:OG1	2.22	0.53
35:XJ:177:ILE:HG13	35:XJ:178:LEU:HD12	1.89	0.53
35:XK:156:LEU:HA	35:XK:159:LEU:HD12	1.89	0.53
35:XL:207:ASP:O	35:XL:210:GLN:NE2	2.41	0.53
37:YC:22:GLN:NE2	37:YC:121:VAL:O	2.42	0.53
37:YC:26:ILE:O	37:YC:29:LEU:N	2.42	0.53
37:YF:113:LEU:O	37:YF:113:LEU:HD23	2.08	0.53
37:YH:99:LYS:HE2	37:YH:147:PHE:HB3	1.90	0.53
37:YJ:3:GLU:HA	37:YJ:6:GLU:HG2	1.91	0.53
37:YK:26:ILE:O	37:YK:30:GLU:N	2.37	0.53
1:A:101:LYS:O	1:A:104:SER:OG	2.25	0.53
2:A2:391:MET:SD	2:A2:394:ARG:NH1	2.81	0.53
2:A4:179:PHE:HZ	7:C4:270:LYS:HE3	1.73	0.53
3:AB:197:ASP:OD1	3:AB:198:GLU:N	2.42	0.53
4:AC:32:PRO:O	4:AC:85:GLN:NE2	2.42	0.53
4:AC:139:HIS:CD2	4:AC:170:ALA:HB2	2.44	0.53
4:AC:207:GLU:HB2	4:AC:304:LYS:NZ	2.22	0.53
3:AD:182:PRO:HB2	3:AD:388:MET:HE1	1.90	0.53
3:AD:347:ASN:OD1	4:AE:394:LYS:NZ	2.42	0.53
4:AE:103:TYR:HB2	4:AE:186:ASN:HB2	1.90	0.53
3:AF:330:MET:HA	3:AF:333:VAL:HG22	1.90	0.53
4:AG:392:ASP:OD1	4:AG:393:HIS:N	2.41	0.53
4:AI:88:HIS:HB3	4:AI:91:GLN:HG3	1.91	0.53
4:AI:271:THR:HB	4:AI:377:MET:HE3	1.90	0.53
4:AK:386:GLU:HA	4:AK:389:ALA:HB3	1.89	0.53
4:AM:245:ASP:O	4:AM:356:ASN:ND2	2.41	0.53
5:B4:115:GLU:O	5:B4:119:LEU:HG	2.08	0.53
5:B6:356:LEU:O	5:B6:360:GLN:HG2	2.07	0.53
4:BC:51:THR:HG23	4:BC:52:PHE:CD2	2.44	0.53
3:BD:139:LEU:HD21	3:BD:170:VAL:HG22	1.89	0.53
3:BD:406:MET:O	3:BD:409:THR:OG1	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BE:70:LEU:HA	4:BE:95:GLY:HA3	1.91	0.53
4:BG:9:VAL:HA	4:BG:68:VAL:HG23	1.91	0.53
3:BH:289:LEU:HD13	3:BH:363:MET:HE1	1.91	0.53
4:BI:53:PHE:O	4:BI:64:ARG:NH1	2.42	0.53
4:BI:54:SER:N	4:BI:62:VAL:O	2.41	0.53
4:BI:166:LYS:N	4:BI:199:ASP:OD2	2.42	0.53
3:BJ:63:ALA:O	3:BJ:89:ASN:ND2	2.41	0.53
3:BL:99:ASN:OD1	3:BL:142:GLY:HA3	2.09	0.53
3:BL:238:THR:HA	3:BL:241:ARG:HG2	1.91	0.53
7:C2:337:TRP:HH2	7:C2:480:TYR:HB2	1.74	0.53
3:CB:11:GLN:O	3:CB:15:GLN:NE2	2.42	0.53
4:CC:213:CYS:O	4:CC:219:ILE:N	2.33	0.53
4:CC:423:GLU:HA	4:CC:426:ALA:HB3	1.90	0.53
4:CE:419:SER:HA	4:CE:422:ARG:HH21	1.73	0.53
3:CF:246:LEU:HD22	3:CF:354:CYS:HA	1.91	0.53
4:CG:168:GLU:N	4:CG:168:GLU:OE1	2.42	0.53
4:CK:166:LYS:N	4:CK:199:ASP:OD2	2.42	0.53
7:Cd:248:ARG:HD2	7:Cd:251:GLN:NE2	2.24	0.53
8:D1:78:ARG:NH2	8:D2:328:GLU:OE2	2.41	0.53
8:D2:272:ARG:HH22	8:D2:273:LEU:HG	1.74	0.53
8:D2:400:GLN:HA	8:D2:403:ARG:HE	1.74	0.53
8:D6:376:ARG:O	8:D6:379:SER:N	2.41	0.53
8:D7:116:GLU:HG3	11:F1:474:LYS:HZ3	1.74	0.53
8:D7:124:LEU:HD11	8:D7:268:ALA:HB1	1.90	0.53
4:DA:265:ILE:HD12	4:DA:432:TYR:CE1	2.44	0.53
3:DB:167:PHE:HD1	3:DB:200:TYR:HD2	1.56	0.53
4:DC:133:GLN:HB3	4:DC:252:LEU:HD21	1.91	0.53
4:DG:286:LEU:HD11	4:DG:373:ARG:H	1.74	0.53
3:DH:77:ARG:O	3:DH:77:ARG:NH1	2.36	0.53
3:DH:141:GLY:HA3	39:DH:501:GTP:H5"	1.90	0.53
3:DJ:2:ARG:HA	3:DJ:129:CYS:O	2.08	0.53
3:DJ:269:GLY:HA2	3:DJ:300:MET:HE1	1.90	0.53
4:DK:9:VAL:HA	4:DK:68:VAL:HG23	1.91	0.53
10:E2:112:HIS:HD1	10:E2:119:TRP:CG	2.27	0.53
3:EF:350:LYS:HE3	4:EG:180:ALA:HA	1.91	0.53
4:EI:214:ARG:NH1	4:EI:215:ARG:HG3	2.24	0.53
3:EJ:331:LEU:HD21	4:EK:177:VAL:HG22	1.91	0.53
4:EK:39:ASP:HA	13:G3:421:ARG:HH12	1.74	0.53
11:F3:376:MET:HE2	11:F3:380:ARG:HH21	1.73	0.53
11:F6:244:ARG:HH12	11:F6:248:HIS:HB2	1.74	0.53
3:FB:11:GLN:HG3	39:FB:501:GTP:PA	2.49	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FC:139:HIS:CE1	4:FC:168:GLU:HB3	2.44	0.53
4:FE:363:VAL:HG12	4:FE:368:LEU:HD22	1.91	0.53
3:FH:8:GLN:NE2	3:FH:17:GLY:HA3	2.23	0.53
4:FK:208:ALA:H	4:FK:304:LYS:NZ	2.04	0.53
11:Fb:413:GLN:NE2	11:Fc:145:ARG:HH12	2.07	0.53
11:Fg:162:ARG:HG3	11:Fg:311:ARG:NH2	2.23	0.53
11:Fk:380:ARG:O	11:Fk:384:ALA:N	2.41	0.53
11:Fl:218:GLU:HA	11:Fl:221:LEU:HD12	1.90	0.53
13:G1:267:TYR:O	13:G1:271:ASP:N	2.42	0.53
14:G5:709:ALA:C	14:G5:711:PRO:HD3	2.33	0.53
14:G6:492:GLU:H	14:G6:495:LYS:HE3	1.73	0.53
14:G6:626:LYS:HA	14:G6:629:LYS:HE2	1.90	0.53
14:G6:736:LEU:HA	14:G6:739:LEU:HB2	1.91	0.53
4:GA:216:ASN:HD21	4:GA:275:VAL:HG23	1.74	0.53
4:GC:89:PRO:HD2	4:HC:280:LYS:NZ	2.23	0.53
4:GE:116:ASP:N	4:GE:116:ASP:OD1	2.42	0.53
3:GF:2:ARG:HH21	4:GG:97:GLU:HA	1.73	0.53
3:GF:269:GLY:N	3:GF:367:PHE:O	2.42	0.53
4:GG:208:ALA:N	4:GG:304:LYS:HZ1	2.07	0.53
4:GG:306:ASP:OD2	4:GG:308:ARG:HG2	2.09	0.53
3:GJ:52:ASN:OD1	3:GJ:62:ARG:NH1	2.41	0.53
3:GJ:141:GLY:HA3	39:GJ:501:GTP:H5”	1.90	0.53
4:GK:234:ILE:HD11	4:GK:272:TYR:HB2	1.90	0.53
4:HA:264:ARG:O	4:HA:266:HIS:ND1	2.41	0.53
4:HC:10:GLY:C	4:HC:12:ALA:N	2.67	0.53
4:HC:324:VAL:HG21	3:HD:219:THR:HG22	1.91	0.53
3:HF:12:CYS:HB3	39:HF:501:GTP:H5’	1.91	0.53
4:HG:42:ILE:HG21	4:HG:59:GLY:HA2	1.91	0.53
4:HG:273:ALA:HB2	4:HG:295:CYS:HB3	1.89	0.53
4:IC:176:GLN:NE2	4:IC:207:GLU:OE2	2.41	0.53
3:ID:316:VAL:HG22	3:ID:352:ALA:HB3	1.90	0.53
4:IE:36:MET:HE3	4:IE:61:HIS:CE1	2.44	0.53
3:IJ:2:ARG:NH1	3:IJ:251:ARG:HH21	2.07	0.53
3:IJ:251:ARG:NH2	4:IK:98:ASP:OD1	2.41	0.53
3:IL:33:THR:O	3:IL:58:LYS:NZ	2.42	0.53
4:IM:208:ALA:HA	4:IM:211:ASP:HB2	1.91	0.53
19:J2:80:LEU:H	19:J2:151:GLN:HE22	1.57	0.53
3:JB:118:ASP:OD1	3:JB:121:ARG:NH1	2.42	0.53
21:K2:479:ARG:HG3	21:K2:480:LEU:HG	1.89	0.53
3:KB:218:THR:OG1	3:KB:219:THR:N	2.42	0.53
3:KF:8:GLN:OE1	3:KF:17:GLY:HA3	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KF:114:ASP:OD1	3:KF:115:SER:N	2.42	0.53
3:KH:9:ALA:HB3	3:KH:137:HIS:HB3	1.91	0.53
3:KH:376:GLU:HA	3:KH:379:LYS:HE3	1.90	0.53
4:KI:9:VAL:HG11	4:KI:150:ALA:HB2	1.90	0.53
3:KL:328:GLU:OE2	3:KL:329:GLN:NE2	2.42	0.53
22:L4:45:ALA:O	22:L4:46:MET:HE2	2.08	0.53
4:LA:93:ILE:HG13	4:LA:118:VAL:HG12	1.91	0.53
4:LA:336:LYS:HE2	3:LB:175:VAL:HB	1.90	0.53
4:LC:34:GLY:HA2	4:LC:86:LEU:HD21	1.90	0.53
4:LC:168:GLU:HB2	4:LC:201:ALA:HA	1.90	0.53
4:LC:208:ALA:H	4:LC:304:LYS:NZ	2.03	0.53
4:LG:10:GLY:O	4:LG:13:GLY:N	2.41	0.53
4:LG:160:ASP:OD1	4:LG:161:TYR:N	2.41	0.53
4:LG:216:ASN:ND2	4:LG:275:VAL:O	2.42	0.53
4:LI:272:TYR:CZ	4:LI:274:PRO:HG2	2.44	0.53
3:MD:8:GLN:HE21	3:MD:21:TRP:NE1	2.07	0.53
4:ME:22:GLU:O	4:ME:26:LEU:HD23	2.09	0.53
4:MG:46:ASP:OD1	4:MG:50:ASN:ND2	2.39	0.53
4:MG:422:ARG:O	4:MG:426:ALA:N	2.33	0.53
3:MH:296:ALA:HB1	3:MH:304:ASP:OD2	2.09	0.53
3:MH:310:TYR:HB2	3:MH:341:PHE:HD1	1.73	0.53
4:MI:32:PRO:O	4:MI:85:GLN:NE2	2.42	0.53
4:MK:178:SER:OG	4:MK:180:ALA:O	2.27	0.53
4:MK:318:LEU:O	4:MK:375:VAL:HA	2.09	0.53
4:MM:395:PHE:HA	4:MM:398:MET:HE2	1.91	0.53
3:ND:67:ASP:OD2	3:ND:72:THR:OG1	2.27	0.53
3:NF:58:LYS:HE2	3:OF:281:TYR:HE1	1.73	0.53
3:NF:217:LEU:HD11	3:NF:220:PRO:HB3	1.90	0.53
3:NF:380:ARG:O	3:NF:384:GLN:HG2	2.08	0.53
3:NL:234:SER:O	3:NL:238:THR:HG23	2.09	0.53
28:O1:12:LYS:HD2	28:O1:15:LEU:HD11	1.91	0.53
4:OA:214:ARG:NH1	4:OA:215:ARG:HG3	2.24	0.53
4:OE:185:TYR:HA	4:OE:395:PHE:HE1	1.74	0.53
4:OE:245:ASP:O	4:OE:356:ASN:ND2	2.42	0.53
3:OF:324:LYS:NZ	4:OG:222:PRO:O	2.30	0.53
3:OL:28:HIS:ND1	3:OL:43:GLN:HB2	2.23	0.53
4:PC:88:HIS:HB3	4:PC:91:GLN:HB2	1.91	0.53
3:PD:15:GLN:NE2	39:PD:501:GTP:C2	2.66	0.53
4:PE:287:SER:OG	4:PE:290:GLU:OE1	2.25	0.53
3:PH:37:HIS:HA	37:YM:64:ARG:HH12	1.74	0.53
3:PJ:194:GLU:OE1	3:PJ:195:ASN:ND2	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PJ:406:MET:O	3:PJ:409:THR:OG1	2.22	0.53
4:PK:70:LEU:HG	4:PK:149:PHE:CZ	2.44	0.53
3:PL:323:MET:SD	3:PL:323:MET:N	2.78	0.53
30:Q1:1503:SER:C	30:Q1:1504:LYS:HD2	2.34	0.53
30:Q2:1433:THR:H	30:Q2:1437:TYR:HD2	1.56	0.53
3:QD:81:PHE:O	3:QD:84:ILE:HG22	2.09	0.53
4:QE:272:TYR:CZ	4:QE:274:PRO:HG2	2.44	0.53
4:QG:113:GLU:OE1	4:QG:113:GLU:N	2.41	0.53
3:QH:372:THR:HB	3:QH:375:GLN:HE22	1.74	0.53
4:QI:216:ASN:HD21	4:QI:275:VAL:HG23	1.74	0.53
3:RF:268:PRO:HD2	3:RF:301:ALA:HB2	1.90	0.53
4:RG:211:ASP:O	4:RG:214:ARG:NH1	2.42	0.53
4:RI:98:ASP:OD1	4:RI:99:ALA:N	2.42	0.53
3:SD:173:PRO:HD3	3:SD:203:ASP:OD1	2.09	0.53
4:SG:166:LYS:HE2	4:SG:198:SER:HA	1.91	0.53
4:SK:234:ILE:HD11	4:SK:272:TYR:HB2	1.90	0.53
4:SK:390:ARG:HA	4:SK:393:HIS:CD2	2.44	0.53
3:SL:3:GLU:OE2	3:SL:127:CYS:HB2	2.09	0.53
3:TD:33:THR:O	3:TD:58:LYS:NZ	2.42	0.53
4:UA:245:ASP:O	4:UA:356:ASN:ND2	2.42	0.53
4:UE:214:ARG:NH1	4:UE:215:ARG:HG3	2.24	0.53
3:UF:47:ILE:HG13	3:UF:51:TYR:HB2	1.91	0.53
3:UF:173:PRO:O	3:UF:380:ARG:NH2	2.42	0.53
4:UK:46:ASP:OD1	4:UK:50:ASN:ND2	2.37	0.53
4:UK:49:PHE:O	4:UK:53:PHE:N	2.41	0.53
4:UK:423:GLU:HA	4:UK:426:ALA:HB3	1.91	0.53
3:UL:211:CYS:HA	3:UL:215:LEU:HB3	1.91	0.53
3:VB:273:LEU:H	3:VB:292:GLN:HE22	1.55	0.53
4:VC:1:MET:N	4:VC:130:THR:OG1	2.41	0.53
3:VD:309:ARG:O	3:VD:371:SER:OG	2.25	0.53
3:VF:172:SER:OG	3:VF:205:GLU:OE2	2.17	0.53
4:VG:295:CYS:HB2	4:VG:377:MET:HE3	1.91	0.53
4:VI:392:ASP:OD1	4:VI:393:HIS:N	2.41	0.53
4:WC:285:GLN:HE22	4:WC:287:SER:HB3	1.74	0.53
3:WJ:11:GLN:HE21	39:WJ:501:GTP:H3'	1.74	0.53
34:XF:29:VAL:HA	34:XF:57:THR:HG23	1.91	0.53
35:XI:158:HIS:O	35:XI:162:SER:OG	2.18	0.53
35:XM:167:GLY:H	35:XM:219:TYR:HE2	1.55	0.53
36:Y:241:ASN:HA	36:Y:244:TYR:CE2	2.43	0.53
37:YB:75:GLU:HA	37:YB:78:LYS:HE2	1.91	0.53
37:YF:128:ASP:HA	37:YF:131:ARG:HD3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:YG:69:PHE:HA	37:YG:72:ILE:HD12	1.90	0.53
37:YH:65:ILE:HG23	37:YH:66:LEU:HD12	1.90	0.53
37:YJ:12:GLU:OE2	37:YJ:145:LEU:HD11	2.09	0.53
37:YN:89:GLY:O	37:YN:94:ASN:ND2	2.42	0.53
1:A:281:GLU:O	1:A:285:MET:N	2.35	0.53
2:A1:255:ARG:O	2:A1:259:VAL:HG23	2.08	0.53
4:AC:5:ILE:HD13	4:AC:64:ARG:HB3	1.91	0.53
3:AD:77:ARG:O	3:AD:77:ARG:NH1	2.33	0.53
3:AD:309:ARG:HE	3:AD:426:GLN:HE21	1.57	0.53
3:AD:322:SER:OG	3:AD:323:MET:SD	2.67	0.53
4:AI:398:MET:O	4:AI:402:ARG:N	2.42	0.53
5:B1:305:ARG:O	5:B1:308:MET:HG3	2.09	0.53
5:B6:39:ARG:HH12	5:B7:293:LEU:HG	1.74	0.53
5:B6:48:GLU:HB3	19:J3:97:ARG:CZ	2.39	0.53
3:BD:70:PRO:HA	3:BD:73:MET:HE3	1.91	0.53
4:BE:116:ASP:N	4:BE:116:ASP:OD1	2.42	0.53
3:BF:286:VAL:HG21	3:BF:325:GLU:HG3	1.91	0.53
4:BI:214:ARG:NH1	4:BI:215:ARG:HG3	2.23	0.53
3:BJ:316:VAL:HG22	3:BJ:352:ALA:HB3	1.90	0.53
4:BK:121:ARG:HE	4:BK:124:LYS:HE2	1.74	0.53
4:BM:105:ARG:O	4:BM:109:THR:OG1	2.23	0.53
4:BM:115:VAL:HA	4:BM:118:VAL:HG22	1.90	0.53
4:BM:263:PRO:C	4:BM:264:ARG:HD3	2.32	0.53
6:C:111:GLU:HG3	6:C:112:LYS:H	1.73	0.53
6:C:128:ILE:O	6:C:132:ILE:HG12	2.09	0.53
6:C:147:LEU:HD23	6:C:172:ILE:HG21	1.91	0.53
7:C8:292:ALA:HB1	10:E3:37:PRO:HA	1.90	0.53
4:CC:84:ARG:NE	15:H1:212:LEU:HD12	2.24	0.53
4:CC:139:HIS:CD2	4:CC:170:ALA:HB2	2.43	0.53
4:CI:220:GLU:O	4:CI:221:ARG:NE	2.41	0.53
3:CJ:350:LYS:HE3	4:CK:180:ALA:HA	1.89	0.53
7:Cb:405:ARG:HH12	10:E2:5:ARG:NH2	2.05	0.53
8:D4:157:GLN:O	8:D4:161:ARG:HG2	2.09	0.53
8:D5:336:ILE:HG13	8:D5:340:LYS:NZ	2.23	0.53
8:D6:358:TYR:O	8:D6:361:SER:OG	2.27	0.53
4:DA:269:LEU:N	4:DA:379:SER:O	2.29	0.53
3:DB:111:GLU:HG2	3:DB:112:LEU:HD12	1.91	0.53
3:DD:286:VAL:HG21	3:DD:325:GLU:HG3	1.91	0.53
3:DD:405:GLU:HA	3:DD:408:PHE:HD2	1.73	0.53
4:DE:392:ASP:OD1	4:DE:393:HIS:N	2.42	0.53
4:DK:1:MET:SD	4:DK:2:ARG:N	2.82	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EH:328:GLU:OE1	3:EH:332:ASN:ND2	2.42	0.53
4:EK:423:GLU:HA	4:EK:426:ALA:HB3	1.90	0.53
11:F2:201:ARG:NH1	11:F2:205:ASP:O	2.41	0.53
11:F4:256:ASP:O	11:F4:259:SER:OG	2.21	0.53
11:F5:117:THR:O	11:F5:121:LEU:HG	2.09	0.53
11:F5:146:LEU:HD11	11:F5:268:PHE:HB2	1.91	0.53
11:F6:292:ILE:O	11:F6:295:THR:OG1	2.26	0.53
11:F7:289:THR:OG1	11:F8:409:ARG:HB3	2.07	0.53
4:FE:216:ASN:ND2	4:FE:275:VAL:O	2.42	0.53
3:FH:15:GLN:HG2	3:FH:222:TYR:HE2	1.72	0.53
4:FK:427:ALA:HA	4:FK:430:LYS:HG2	1.91	0.53
3:FL:268:PRO:HD2	3:FL:301:ALA:HB2	1.90	0.53
11:Fa:153:LYS:HA	11:Fa:257:LYS:NZ	2.24	0.53
11:Fc:355:ASN:O	11:Fc:358:GLN:HG3	2.08	0.53
12:G:414:GLU:HA	12:G:417:LEU:HD12	1.90	0.53
13:G2:105:GLU:HG2	13:G2:116:ARG:HB2	1.89	0.53
13:G2:171:GLY:O	13:G2:182:ARG:NH1	2.41	0.53
14:G4:457:TYR:O	14:G4:461:ASP:N	2.36	0.53
14:G5:621:ALA:HB1	14:G5:705:PRO:HD2	1.90	0.53
14:G6:488:LYS:HD3	14:G6:502:ILE:HG13	1.90	0.53
3:GB:330:MET:HA	3:GB:333:VAL:HG12	1.90	0.53
4:GC:10:GLY:O	4:GC:13:GLY:N	2.41	0.53
3:GD:286:VAL:HG21	3:GD:325:GLU:HG3	1.91	0.53
3:GD:324:LYS:NZ	4:GE:222:PRO:O	2.31	0.53
4:GE:108:TYR:O	4:GE:112:LYS:NZ	2.29	0.53
4:GG:127:ASP:CG	23:M:160:VAL:HG12	2.34	0.53
4:GI:256:GLN:O	4:GI:260:VAL:HG12	2.09	0.53
3:GJ:305:PRO:HB2	3:GJ:310:TYR:HE1	1.73	0.53
3:GJ:326:VAL:HA	3:GJ:329:GLN:NE2	2.23	0.53
3:GL:175:VAL:HG22	3:GL:177:ASP:H	1.74	0.53
15:H2:248:ASP:OD1	15:H2:249:LYS:N	2.40	0.53
15:H6:237:ARG:O	15:H6:241:THR:HG23	2.09	0.53
4:HC:260:VAL:HG23	4:HC:265:ILE:O	2.09	0.53
3:HH:252:LYS:O	3:HH:256:ASN:ND2	2.41	0.53
4:HI:254:GLU:OE2	4:HI:254:GLU:N	2.39	0.53
4:HI:320:ARG:HD3	4:HI:360:PRO:HG3	1.90	0.53
4:HK:160:ASP:OD1	4:HK:161:TYR:N	2.41	0.53
4:IA:1:MET:O	4:IA:131:GLY:HA3	2.09	0.53
4:IG:50:ASN:O	4:IG:64:ARG:NH1	2.42	0.53
3:IH:247:ASN:HB3	3:IH:252:LYS:HD2	1.91	0.53
3:IJ:316:VAL:HG22	3:IJ:352:ALA:HB3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IL:156:ARG:NH1	3:IL:195:ASN:O	2.42	0.53
19:J3:47:ILE:HG21	19:J3:102:LEU:HD22	1.89	0.53
3:JF:12:CYS:SG	3:JF:13:GLY:N	2.82	0.53
4:JK:317:MET:O	4:JK:354:GLY:N	2.41	0.53
21:K3:189:GLU:HG2	21:K3:190:LYS:N	2.24	0.53
21:K3:354:LEU:HA	21:K3:357:MET:HE3	1.91	0.53
21:K4:31:LYS:HA	21:K4:34:LEU:HB2	1.91	0.53
21:K4:200:VAL:HA	21:K4:203:LYS:NZ	2.24	0.53
4:KA:278:ALA:O	4:KA:370:LYS:NZ	2.41	0.53
3:KF:19:LYS:NZ	3:KF:223:GLY:O	2.42	0.53
3:KF:285:THR:O	3:KF:288:GLU:HG3	2.08	0.53
4:KI:272:TYR:CZ	4:KI:274:PRO:HG2	2.44	0.53
4:KI:397:LEU:O	4:KI:401:LYS:HG2	2.09	0.53
3:KJ:133:PHE:HD2	3:KJ:164:MET:HE1	1.73	0.53
3:KL:285:THR:O	3:KL:288:GLU:HG3	2.08	0.53
22:L2:88:VAL:H	4:LE:264:ARG:HH22	1.57	0.53
22:L4:77:LYS:HG3	22:L4:78:PHE:H	1.74	0.53
4:LA:116:ASP:OD1	4:LA:117:LEU:N	2.40	0.53
3:LB:174:LYS:HG3	3:LB:175:VAL:HG12	1.89	0.53
3:LF:164:MET:HE3	3:LF:197:ASP:N	2.24	0.53
3:LF:380:ARG:O	3:LF:384:GLN:HG2	2.09	0.53
4:LG:154:MET:HE3	4:LG:194:THR:HG22	1.89	0.53
4:LG:396:ASP:OD1	4:LG:397:LEU:N	2.42	0.53
3:LH:341:PHE:HD1	3:LH:348:ASN:HD21	1.57	0.53
4:LK:172:TYR:N	4:LK:204:VAL:O	2.30	0.53
3:LL:305:PRO:HB2	3:LL:310:TYR:HE1	1.73	0.53
4:MG:254:GLU:OE1	4:MG:254:GLU:N	2.40	0.53
3:MH:322:SER:N	3:MH:325:GLU:OE2	2.41	0.53
4:MI:274:PRO:HG3	4:MI:374:ALA:HA	1.91	0.53
4:MI:301:GLN:OE1	4:MI:301:GLN:N	2.42	0.53
4:MK:1:MET:HE1	4:MK:51:THR:HB	1.90	0.53
4:MK:319:TYR:N	4:MK:354:GLY:O	2.36	0.53
3:ML:52:ASN:OD1	3:ML:62:ARG:NH1	2.42	0.53
4:NA:33:ASP:OD1	4:NA:34:GLY:N	2.41	0.53
3:ND:19:LYS:NZ	3:ND:223:GLY:O	2.41	0.53
3:ND:101:TRP:HB2	3:ND:184:ASN:HD22	1.74	0.53
3:ND:269:GLY:N	3:ND:367:PHE:O	2.42	0.53
3:NH:247:ASN:HB3	3:NH:252:LYS:CD	2.38	0.53
4:NI:2:ARG:HA	4:NI:133:GLN:HE22	1.74	0.53
3:NJ:67:ASP:OD2	3:NJ:72:THR:OG1	2.27	0.53
3:NL:84:ILE:O	3:NL:86:ARG:NH1	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:OD:217:LEU:HD11	3:OD:220:PRO:HB3	1.90	0.53
4:OE:105:ARG:O	4:OE:109:THR:OG1	2.19	0.53
3:OH:375:GLN:HA	3:OH:378:PHE:CZ	2.43	0.53
3:OJ:173:PRO:O	3:OJ:380:ARG:NH2	2.42	0.53
3:OL:139:LEU:HD21	3:OL:170:VAL:HG22	1.89	0.53
3:OL:269:GLY:N	3:OL:367:PHE:O	2.42	0.53
27:P:261:SER:HB3	27:P:269:VAL:HG21	1.90	0.53
29:P1:398:ILE:HB	29:P1:412:ILE:HB	1.91	0.53
29:P1:432:ILE:HD12	29:P1:446:VAL:HG11	1.90	0.53
29:P2:397:LYS:HG2	29:P2:414:SER:H	1.74	0.53
3:PD:174:LYS:HG3	3:PD:175:VAL:HG12	1.89	0.53
4:PE:256:GLN:O	4:PE:260:VAL:HG12	2.08	0.53
3:PF:91:VAL:HG11	3:PF:116:VAL:HG12	1.90	0.53
3:PF:156:ARG:NE	3:PF:164:MET:HE3	2.23	0.53
4:PI:208:ALA:H	4:PI:304:LYS:HZ1	1.56	0.53
4:PI:388:TRP:HB3	4:PI:425:LEU:HD11	1.90	0.53
3:PJ:324:LYS:HD2	4:PK:221:ARG:HA	1.91	0.53
30:Q2:1360:ALA:HB1	30:Q2:1383:ILE:HB	1.91	0.53
3:QJ:258:VAL:O	4:QK:407:TRP:NE1	2.38	0.53
4:QK:339:ARG:O	4:QK:339:ARG:NH1	2.33	0.53
3:QL:1:MET:HE1	3:QL:3:GLU:HB3	1.91	0.53
3:QL:172:SER:OG	3:QL:205:GLU:OE2	2.20	0.53
31:R2:117:THR:O	31:R2:149:ILE:HD12	2.07	0.53
4:RC:88:HIS:HB3	4:RC:91:GLN:HB2	1.90	0.53
4:RC:208:ALA:H	4:RC:304:LYS:NZ	2.07	0.53
4:RE:2:ARG:HA	4:RE:133:GLN:HE22	1.73	0.53
39:RH:501:GTP:O3G	39:RH:501:GTP:O3'	2.17	0.53
3:RL:12:CYS:HA	39:RL:501:GTP:HN22	1.74	0.53
3:RL:13:GLY:HA2	3:RL:16:ILE:HB	1.91	0.53
3:SB:19:LYS:NZ	3:SB:223:GLY:O	2.42	0.53
3:SB:58:LYS:HE2	3:TB:281:TYR:HE1	1.74	0.53
4:SC:91:GLN:HG3	4:SC:121:ARG:HH21	1.74	0.53
4:SE:423:GLU:HA	4:SE:426:ALA:HB3	1.91	0.53
3:SF:52:ASN:OD1	3:SF:62:ARG:NH1	2.42	0.53
3:SF:66:VAL:HG11	3:SF:147:MET:HE3	1.91	0.53
3:SH:12:CYS:HA	39:SH:501:GTP:N2	2.24	0.53
3:SH:324:LYS:HD3	4:SI:210:TYR:CE1	2.44	0.53
4:SI:272:TYR:CZ	4:SI:274:PRO:HG2	2.44	0.53
4:SK:49:PHE:O	4:SK:53:PHE:N	2.39	0.53
4:SM:207:GLU:HB2	4:SM:304:LYS:NZ	2.24	0.53
4:TE:188:ILE:HG12	4:TE:425:LEU:HD11	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:TG:189:LEU:HD11	4:TG:418:PHE:HE1	1.74	0.53
4:TG:258:ASN:ND2	3:TH:179:VAL:HG22	2.24	0.53
4:TG:265:ILE:HD12	4:TG:432:TYR:CE1	2.44	0.53
4:TK:220:GLU:O	4:TK:221:ARG:NE	2.39	0.53
4:TM:423:GLU:HA	4:TM:426:ALA:HB3	1.91	0.53
3:TN:234:SER:O	3:TN:238:THR:HG23	2.09	0.53
4:UC:12:ALA:HB1	39:UC:501:GTP:C2	2.43	0.53
4:UE:1:MET:SD	4:UE:2:ARG:N	2.82	0.53
3:UH:198:GLU:HA	3:UH:266:PHE:HE2	1.73	0.53
4:UI:168:GLU:HB2	4:UI:201:ALA:HA	1.90	0.53
4:UI:295:CYS:HB2	4:UI:377:MET:HE3	1.91	0.53
4:VA:223:THR:OG1	4:VA:225:THR:OG1	2.25	0.53
3:VF:46:ARG:HH22	4:VG:73:THR:HA	1.74	0.53
4:VI:54:SER:HB2	4:VI:62:VAL:HB	1.90	0.53
3:VJ:12:CYS:SG	3:VJ:13:GLY:N	2.82	0.53
4:VK:256:GLN:O	4:VK:260:VAL:HG12	2.09	0.53
3:VL:70:PRO:HA	3:VL:73:MET:HE3	1.91	0.53
4:WA:12:ALA:O	39:WA:501:GTP:N1	2.42	0.53
4:WC:245:ASP:O	4:WC:356:ASN:ND2	2.42	0.53
3:WD:12:CYS:HA	39:WD:501:GTP:HN22	1.73	0.53
4:WE:11:GLN:O	4:WE:14:VAL:HG22	2.08	0.53
4:WK:33:ASP:OD1	4:WK:34:GLY:N	2.41	0.53
3:WL:2:ARG:HA	3:WL:129:CYS:O	2.09	0.53
34:XA:71:ILE:HG22	34:XA:73:LEU:H	1.73	0.53
34:XD:78:MET:HG2	34:XD:165:VAL:HG22	1.91	0.53
34:XG:74:PRO:O	34:XG:136:LEU:N	2.38	0.53
35:XJ:89:TYR:CE2	35:XJ:122:GLY:HA3	2.44	0.53
35:XM:145:ASN:HB3	35:XM:148:ILE:HD12	1.90	0.53
36:Y:45:PRO:HB2	36:Y:48:GLU:OE2	2.08	0.53
37:YB:59:ASN:HD22	37:YB:62:HIS:CE1	2.27	0.53
37:YB:64:ARG:HA	37:YB:67:ILE:HG12	1.91	0.53
37:YS:110:LEU:HB3	37:YS:140:LEU:HD22	1.91	0.53
2:A3:170:ASN:HA	2:A3:173:LYS:HZ3	1.72	0.53
3:AD:31:ASP:OD2	3:AD:35:THR:OG1	2.25	0.53
3:AD:132:GLY:HA3	3:AD:163:ILE:H	1.74	0.53
3:AF:324:LYS:NZ	4:AG:222:PRO:O	2.31	0.53
3:AJ:245:GLN:OE1	4:AK:15:GLN:NE2	2.41	0.53
3:AL:2:ARG:HA	3:AL:129:CYS:O	2.09	0.53
5:B2:92:LEU:HD11	5:B2:236:SER:HB2	1.90	0.53
5:B3:119:LEU:HD22	5:B3:389:LYS:NZ	2.24	0.53
5:B7:8:PRO:HD2	8:D7:330:THR:HG21	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B8:77:THR:O	5:B8:80:LYS:HG2	2.09	0.53
5:B8:149:LYS:O	5:B8:152:GLN:NE2	2.41	0.53
4:BC:329:ASN:OD1	4:BC:330:ALA:N	2.42	0.53
3:BD:78:SER:HB3	14:G4:322:LYS:HE2	1.90	0.53
3:BD:111:GLU:HG2	3:BD:112:LEU:HD22	1.89	0.53
4:BE:51:THR:HG23	4:BE:52:PHE:CD2	2.44	0.53
4:BE:295:CYS:HB2	4:BE:377:MET:HG2	1.91	0.53
3:BF:375:GLN:HA	3:BF:378:PHE:CZ	2.44	0.53
4:BG:54:SER:N	4:BG:62:VAL:O	2.41	0.53
3:BH:250:LEU:O	3:BH:254:ALA:N	2.26	0.53
3:BJ:117:LEU:HD11	3:BJ:154:LYS:HD2	1.89	0.53
3:BJ:359:ARG:NH2	15:H5:5:GLN:OE1	2.39	0.53
4:BK:245:ASP:O	4:BK:356:ASN:ND2	2.42	0.53
4:BK:319:TYR:N	4:BK:354:GLY:O	2.41	0.53
7:C4:402:GLU:OE1	7:C4:402:GLU:N	2.37	0.53
7:C4:435:GLN:HB3	7:C4:439:ARG:HH12	1.73	0.53
7:C8:300:TRP:HH2	7:C9:412:CYS:HB2	1.74	0.53
7:C9:368:THR:O	7:C9:372:ILE:HG13	2.09	0.53
3:CB:176:SER:O	3:CB:178:THR:N	2.41	0.53
3:CB:385:PHE:HZ	3:CB:408:PHE:HB3	1.74	0.53
4:CC:91:GLN:HG3	4:CC:121:ARG:HH21	1.73	0.53
4:CC:154:MET:HE1	4:CC:197:HIS:HB2	1.89	0.53
4:CC:256:GLN:O	4:CC:260:VAL:HG12	2.09	0.53
3:CD:323:MET:N	3:CD:323:MET:SD	2.82	0.53
3:CF:13:GLY:HA2	3:CF:16:ILE:HB	1.91	0.53
3:CH:54:ALA:HA	3:DF:283:ALA:HB2	1.91	0.53
3:CH:289:LEU:O	3:CH:293:MET:HG2	2.09	0.53
3:CJ:68:LEU:HD12	3:CJ:97:ALA:HB2	1.91	0.53
4:CK:214:ARG:NH1	4:CK:215:ARG:HG3	2.24	0.53
3:CL:2:ARG:HA	3:CL:129:CYS:O	2.09	0.53
3:CL:218:THR:OG1	3:CL:219:THR:N	2.42	0.53
4:CM:331:ALA:O	4:CM:334:THR:OG1	2.23	0.53
4:CM:386:GLU:HA	4:CM:389:ALA:HB3	1.90	0.53
4:CM:402:ARG:HB2	4:CM:405:VAL:HG11	1.91	0.53
7:Cd:236:HIS:CE1	7:Cd:328:LEU:HD22	2.44	0.53
6:D:341:ARG:HH21	6:D:379:PRO:HG3	1.73	0.53
8:D2:163:GLN:HG3	8:D2:165:PRO:HD2	1.91	0.53
8:D3:192:ARG:HH12	10:E2:31:TYR:HD1	1.57	0.53
8:D8:214:ASN:OD1	8:D8:215:TRP:N	2.41	0.53
8:D8:360:ARG:HG2	8:D8:363:ARG:NH1	2.24	0.53
8:D9:63:ARG:O	8:D9:66:GLN:HG2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:D9:177:LEU:O	8:D9:180:THR:OG1	2.22	0.53
4:DA:168:GLU:HB2	4:DA:201:ALA:HA	1.91	0.53
4:DE:224:TYR:HB3	4:DE:228:ASN:ND2	2.23	0.53
4:DE:318:LEU:HD13	4:DE:354:GLY:HA3	1.90	0.53
4:DG:319:TYR:HE2	4:DG:328:VAL:HG13	1.74	0.53
3:DJ:11:GLN:HG3	39:DJ:501:GTP:PA	2.49	0.53
9:E:442:VAL:HG11	3:HB:44:LEU:HG	1.91	0.53
10:E3:132:PRO:O	10:E3:133:ARG:HG2	2.09	0.53
3:EB:101:TRP:HB2	3:EB:184:ASN:ND2	2.24	0.53
4:EE:116:ASP:N	4:EE:116:ASP:OD1	2.42	0.53
4:EE:205:ASP:OD2	4:EE:304:LYS:NZ	2.35	0.53
4:EI:187:SER:O	4:EI:190:THR:OG1	2.24	0.53
4:EI:287:SER:OG	4:EI:290:GLU:OE1	2.24	0.53
11:F3:367:GLU:HG3	11:F4:110:ARG:HD2	1.89	0.53
11:F5:278:SER:OG	11:F5:279:PHE:N	2.40	0.53
11:F6:175:ARG:O	11:F6:178:GLU:HG3	2.08	0.53
11:F7:471:SER:O	11:F7:474:LYS:NZ	2.25	0.53
4:FA:1:MET:O	4:FA:131:GLY:HA3	2.08	0.53
3:FB:328:GLU:OE1	3:FB:332:ASN:ND2	2.42	0.53
4:FC:52:PHE:CZ	4:FC:239:THR:HB	2.42	0.53
4:FE:319:TYR:HB2	4:FE:355:ILE:HD13	1.91	0.53
3:FF:139:LEU:HD21	3:FF:170:VAL:HG22	1.91	0.53
3:FJ:174:LYS:HG3	3:FJ:175:VAL:HG12	1.90	0.53
11:Ff:364:ILE:HD12	11:Ff:451:LEU:HD12	1.90	0.53
11:Fi:308:GLN:HA	11:Fi:311:ARG:HD3	1.91	0.53
13:G2:147:LYS:NZ	13:G2:149:ILE:O	2.22	0.53
13:G3:297:MET:HE3	13:G3:337:ILE:HD11	1.91	0.53
13:G3:423:LEU:O	13:G3:506:LEU:N	2.38	0.53
13:G3:474:LYS:HB3	13:G3:485:TYR:N	2.24	0.53
14:G6:316:ASP:OD1	14:G6:317:GLY:N	2.41	0.53
14:G6:550:GLN:HA	14:G6:553:LYS:HE3	1.90	0.53
4:GC:316:CYS:N	4:GC:378:LEU:O	2.37	0.53
4:GE:256:GLN:O	4:GE:260:VAL:HG12	2.09	0.53
3:GF:11:GLN:HG3	39:GF:501:GTP:PA	2.48	0.53
3:GH:269:GLY:HA3	3:GH:367:PHE:HB3	1.90	0.53
4:GI:72:PRO:HA	4:GI:75:VAL:HG12	1.90	0.53
4:GI:273:ALA:HB2	4:GI:295:CYS:HB3	1.90	0.53
3:GJ:118:ASP:OD1	3:GJ:121:ARG:NH1	2.42	0.53
4:GK:120:ASP:OD2	4:GK:124:LYS:NZ	2.42	0.53
4:HA:102:ASN:HB3	4:HA:105:ARG:HB2	1.89	0.53
4:HA:256:GLN:O	4:HA:260:VAL:HG12	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HA:363:VAL:HG12	4:HA:368:LEU:HD22	1.91	0.53
4:HC:248:LEU:HD23	4:HC:355:ILE:HG22	1.91	0.53
3:HD:285:THR:O	3:HD:288:GLU:HG3	2.09	0.53
4:HE:415:GLU:OE1	4:HE:419:SER:OG	2.26	0.53
3:HF:81:PHE:O	3:HF:84:ILE:HG22	2.08	0.53
4:HI:247:ALA:HB3	4:HI:355:ILE:HD11	1.90	0.53
3:IB:81:PHE:O	3:IB:84:ILE:HG22	2.09	0.53
3:IB:230:SER:O	3:IB:234:SER:N	2.25	0.53
4:IG:196:GLU:OE1	4:IG:196:GLU:N	2.33	0.53
3:IH:130:LEU:HB2	3:IH:162:ARG:HH11	1.72	0.53
4:IM:3:GLU:N	4:IM:133:GLN:OE1	2.41	0.53
3:JB:12:CYS:HA	39:JB:501:GTP:HN22	1.73	0.53
4:JC:229:ARG:HE	4:JC:368:LEU:HD22	1.74	0.53
4:JI:427:ALA:HA	4:JI:430:LYS:HG2	1.90	0.53
3:JJ:234:SER:O	3:JJ:238:THR:HG23	2.09	0.53
4:JK:1:MET:SD	4:JK:2:ARG:N	2.82	0.53
21:K3:320:ASP:OD1	21:K3:321:ILE:N	2.42	0.53
21:K3:370:GLU:O	21:K3:374:THR:N	2.37	0.53
3:KF:324:LYS:HD2	4:KG:221:ARG:HA	1.91	0.53
4:KG:287:SER:OG	4:KG:290:GLU:OE1	2.26	0.53
3:KJ:379:LYS:O	3:KJ:382:SER:OG	2.16	0.53
22:L1:185:MET:SD	22:L1:186:LYS:HG2	2.49	0.53
22:L2:124:ILE:HG23	22:L2:135:ASP:HA	1.91	0.53
22:L3:85:LYS:HG2	4:LI:263:PRO:HB3	1.90	0.53
4:LC:287:SER:N	4:LC:290:GLU:OE2	2.42	0.53
3:LF:218:THR:OG1	3:LF:219:THR:N	2.41	0.53
4:LG:207:GLU:HB2	4:LG:304:LYS:HZ1	1.73	0.53
24:M1:95:ARG:NH2	24:M1:100:GLU:H	2.07	0.53
24:M2:56:TYR:CE2	24:M2:58:MET:HB2	2.43	0.53
4:MC:278:ALA:HB3	27:P:349:GLN:CD	2.34	0.53
4:MC:301:GLN:OE1	4:MC:301:GLN:N	2.42	0.53
4:ME:1:MET:O	4:ME:133:GLN:NE2	2.38	0.53
3:MF:12:CYS:HB3	39:MF:501:GTP:H5'	1.91	0.53
3:MF:217:LEU:HD11	3:MF:220:PRO:HB3	1.91	0.53
4:MG:415:GLU:OE1	4:MG:419:SER:OG	2.26	0.53
3:MJ:213:ARG:HG3	3:MJ:297:LYS:HZ2	1.74	0.53
3:ML:60:VAL:HG23	3:ML:86:ARG:HH11	1.74	0.53
3:ML:309:ARG:O	3:ML:371:SER:OG	2.22	0.53
3:NB:316:VAL:HG22	3:NB:352:ALA:HB3	1.91	0.53
4:NC:67:PHE:HB2	4:NC:92:LEU:HD13	1.90	0.53
3:ND:15:GLN:HG3	3:ND:222:TYR:HE2	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:NG:118:VAL:HA	4:NG:121:ARG:HG2	1.91	0.53
4:NG:220:GLU:O	4:NG:221:ARG:NE	2.39	0.53
3:NH:357:PRO:HB3	3:NH:362:LYS:HA	1.91	0.53
4:NI:220:GLU:O	4:NI:221:ARG:NE	2.40	0.53
3:NJ:261:PRO:HD3	4:NK:406:HIS:CG	2.44	0.53
4:OE:161:TYR:O	4:OE:166:LYS:NZ	2.41	0.53
4:OE:425:LEU:O	4:OE:428:LEU:N	2.42	0.53
4:OG:344:VAL:HB	4:OG:346:TRP:CD1	2.43	0.53
4:OI:396:ASP:OD1	4:OI:397:LEU:N	2.42	0.53
3:OL:398:TYR:HB3	3:OL:403:MET:HB2	1.91	0.53
4:PA:388:TRP:HB3	4:PA:425:LEU:HD11	1.91	0.53
4:PE:331:ALA:O	4:PE:334:THR:OG1	2.25	0.53
3:PF:317:PHE:O	3:PF:354:CYS:N	2.33	0.53
3:PJ:328:GLU:OE1	3:PJ:332:ASN:ND2	2.41	0.53
4:QC:105:ARG:O	4:QC:109:THR:OG1	2.26	0.53
3:QD:317:PHE:O	3:QD:354:CYS:N	2.36	0.53
3:QJ:305:PRO:HA	3:QJ:373:ALA:HB2	1.90	0.53
4:QM:392:ASP:O	4:QM:396:ASP:N	2.39	0.53
27:R:312:ARG:HD3	27:R:315:ARG:HH21	1.74	0.53
3:RB:15:GLN:HG2	3:RB:222:TYR:HE2	1.74	0.53
4:RC:351:PHE:HZ	3:RD:177:ASP:H	1.56	0.53
3:RD:267:MET:O	3:RD:369:GLY:N	2.39	0.53
4:RE:51:THR:HG23	4:RE:52:PHE:CD2	2.43	0.53
3:RF:280:GLN:OE1	3:RF:280:GLN:N	2.40	0.53
3:RH:11:GLN:HG3	39:RH:501:GTP:PA	2.48	0.53
4:RI:326:LYS:HD2	3:RJ:208:TYR:CE2	2.44	0.53
4:RK:7:ILE:N	4:RK:136:LEU:O	2.27	0.53
3:SD:139:LEU:HD21	3:SD:170:VAL:HG22	1.91	0.53
4:SE:8:HIS:CE1	4:SE:21:TRP:HH2	2.27	0.53
3:SF:46:ARG:HH12	4:SG:73:THR:HG23	1.72	0.53
4:SG:386:GLU:HA	4:SG:389:ALA:HB3	1.91	0.53
4:SK:345:ASP:OD1	4:SK:345:ASP:N	2.42	0.53
3:TD:46:ARG:HH12	4:TE:73:THR:HG23	1.74	0.53
4:TE:265:ILE:HD12	4:TE:432:TYR:CE1	2.44	0.53
4:TE:274:PRO:HG3	4:TE:374:ALA:HA	1.90	0.53
3:TF:403:MET:HE2	3:TF:408:PHE:CE1	2.44	0.53
3:TH:7:LEU:HD13	3:TH:64:VAL:HB	1.90	0.53
3:TH:131:GLN:HB3	3:TH:163:ILE:HD12	1.91	0.53
3:TH:132:GLY:HA2	3:TH:162:ARG:HB3	1.91	0.53
3:TJ:323:MET:SD	3:TJ:323:MET:N	2.81	0.53
3:TL:12:CYS:SG	3:TL:13:GLY:N	2.81	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TL:380:ARG:O	3:TL:384:GLN:HG2	2.09	0.53
4:TM:273:ALA:N	4:TM:377:MET:HE1	2.24	0.53
4:UA:430:LYS:HA	4:UA:433:GLU:HG3	1.91	0.53
4:UC:161:TYR:HB3	4:UC:164:LYS:NZ	2.24	0.53
4:UC:329:ASN:HA	4:UC:332:ILE:HG12	1.90	0.53
3:UD:83:GLN:O	3:UD:86:ARG:NH2	2.42	0.53
3:UD:173:PRO:O	3:UD:380:ARG:NH2	2.42	0.53
4:UG:411:GLU:OE2	4:UG:413:MET:HE1	2.08	0.53
4:UI:208:ALA:H	4:UI:304:LYS:NZ	2.05	0.53
3:VB:201:CYS:HB2	3:VB:267:MET:HE1	1.90	0.53
3:VD:239:CYS:SG	3:VD:316:VAL:HG11	2.49	0.53
4:VE:89:PRO:HD2	4:WE:280:LYS:HZ3	1.74	0.53
4:VE:262:TYR:OH	3:VF:391:ARG:O	2.27	0.53
4:VG:139:HIS:CD2	4:VG:170:ALA:HB2	2.44	0.53
3:VH:28:HIS:ND1	3:VH:43:GLN:HB2	2.24	0.53
3:VH:48:ASN:O	3:VH:62:ARG:NH2	2.37	0.53
3:VH:172:SER:OG	3:VH:205:GLU:OE2	2.22	0.53
33:W:369:ILE:HA	33:W:372:LEU:HD23	1.91	0.53
4:WC:22:GLU:O	4:WC:26:LEU:HD23	2.09	0.53
4:WC:346:TRP:HE1	3:WD:391:ARG:NH1	2.07	0.53
3:WF:54:ALA:HB3	3:WF:58:LYS:HB3	1.91	0.53
3:WF:172:SER:OG	3:WF:205:GLU:OE2	2.21	0.53
3:WH:143:THR:HG22	3:WH:147:MET:HE2	1.90	0.53
4:WI:51:THR:HG23	4:WI:52:PHE:CD2	2.44	0.53
4:WI:316:CYS:HB3	4:WI:378:LEU:HB2	1.89	0.53
3:WJ:218:THR:OG1	3:WJ:219:THR:N	2.40	0.53
33:X:431:LYS:O	33:X:434:THR:OG1	2.23	0.53
34:XE:164:ARG:NH2	34:XE:181:PHE:HA	2.24	0.53
35:XH:104:THR:H	35:XH:108:GLU:HG3	1.73	0.53
37:YU:33:ARG:NH1	37:YU:52:TYR:OH	2.42	0.53
37:YU:114:ARG:NH2	37:YU:130:ALA:O	2.39	0.53
38:a:83:GLN:O	38:a:86:GLN:NE2	2.42	0.53
2:A1:84:LEU:HA	2:A1:232:LEU:HD21	1.90	0.53
2:A4:208:GLU:O	2:A4:210:ASN:N	2.41	0.53
4:AC:423:GLU:HA	4:AC:426:ALA:HB3	1.92	0.53
4:AE:252:LEU:HA	4:AE:255:PHE:HD2	1.74	0.53
3:AF:12:CYS:HA	39:AF:501:GTP:N2	2.23	0.53
3:AF:347:ASN:HB3	4:AG:178:SER:HB3	1.91	0.53
4:AI:188:ILE:HG13	4:AI:421:ALA:HB1	1.90	0.53
3:AJ:211:CYS:HA	3:AJ:215:LEU:HB2	1.91	0.53
4:AK:425:LEU:O	4:AK:428:LEU:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AM:47:ASP:HB3	4:AM:49:PHE:CE2	2.45	0.53
4:AM:51:THR:HG23	4:AM:52:PHE:CD2	2.44	0.53
1:B:376:LYS:HA	1:B:379:MET:HE3	1.89	0.53
5:B1:303:ASP:HB3	5:B1:307:LYS:NZ	2.24	0.53
5:B3:69:ASP:HA	5:B3:72:ASN:ND2	2.23	0.53
5:B3:355:LYS:NZ	5:B4:42:ALA:O	2.39	0.53
5:B7:40:GLN:O	5:B7:44:ILE:HG13	2.09	0.53
5:B8:245:LEU:O	5:B8:249:GLN:HG2	2.09	0.53
3:BB:53:GLU:OE2	15:H1:28:ARG:NH2	2.41	0.53
4:BC:316:CYS:HB3	4:BC:378:LEU:HB3	1.91	0.53
3:BD:16:ILE:HD13	3:BD:226:ASN:HD22	1.74	0.53
3:BD:292:GLN:O	3:BD:298:ASN:ND2	2.40	0.53
3:BF:12:CYS:HA	39:BF:501:GTP:N2	2.24	0.53
4:BG:10:GLY:O	4:BG:14:VAL:HG13	2.09	0.53
4:BG:168:GLU:HB2	4:BG:201:ALA:HA	1.91	0.53
4:BG:264:ARG:O	4:BG:266:HIS:ND1	2.42	0.53
4:BG:272:TYR:CZ	4:BG:274:PRO:HG2	2.43	0.53
4:BI:20:CYS:O	4:BI:24:TYR:N	2.39	0.53
3:BJ:176:SER:O	3:BJ:178:THR:N	2.42	0.53
6:C:363:ILE:HG23	6:C:364:PHE:CD2	2.44	0.53
7:C5:430:THR:O	7:C5:433:THR:OG1	2.25	0.53
3:CD:156:ARG:CZ	3:CD:164:MET:HE3	2.38	0.53
3:CF:379:LYS:O	3:CF:382:SER:OG	2.16	0.53
3:CH:16:ILE:HD13	3:CH:167:PHE:CE2	2.42	0.53
3:CH:150:LEU:C	3:CH:154:LYS:HZ3	2.17	0.53
3:CH:276:ARG:CZ	14:G5:326:GLY:HA3	2.39	0.53
4:CK:392:ASP:OD1	4:CK:393:HIS:N	2.42	0.53
3:DB:84:ILE:O	3:DB:86:ARG:NH1	2.41	0.53
4:DC:272:TYR:HE1	4:DC:374:ALA:HB1	1.73	0.53
3:DD:101:TRP:HB2	3:DD:184:ASN:HD22	1.74	0.53
3:DD:130:LEU:HB2	3:DD:162:ARG:NH1	2.24	0.53
4:DG:1:MET:N	4:DG:130:THR:OG1	2.42	0.53
4:DG:145:THR:OG1	39:DG:501:GTP:O1B	2.27	0.53
3:DH:405:GLU:HA	3:DH:408:PHE:HD2	1.74	0.53
3:DJ:324:LYS:NZ	4:DK:222:PRO:O	2.33	0.53
3:DL:302:ALA:HB1	3:DL:377:LEU:HD21	1.91	0.53
10:E2:170:LEU:O	10:E2:175:ARG:NH1	2.42	0.53
4:EA:214:ARG:NH1	4:EA:215:ARG:HG3	2.25	0.53
3:EB:166:THR:OG1	3:EB:198:GLU:O	2.22	0.53
3:EB:324:LYS:HE2	4:EC:222:PRO:HG2	1.91	0.53
4:EC:70:LEU:HA	4:EC:95:GLY:HA3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EC:161:TYR:O	4:EC:166:LYS:NZ	2.38	0.53
4:EC:319:TYR:HB2	4:EC:355:ILE:HD13	1.90	0.53
3:ED:174:LYS:HG3	3:ED:175:VAL:HG12	1.90	0.53
4:EE:272:TYR:CE1	4:EE:274:PRO:HD2	2.44	0.53
4:EG:229:ARG:NH1	4:EG:233:GLN:HB3	2.23	0.53
3:EH:119:VAL:HA	3:EH:122:LYS:HE3	1.90	0.53
3:EH:309:ARG:O	3:EH:371:SER:OG	2.25	0.53
4:EI:54:SER:HB2	4:EI:62:VAL:HB	1.91	0.53
4:EI:68:VAL:HG12	4:EI:93:ILE:HB	1.90	0.53
4:EI:362:VAL:HA	4:EI:368:LEU:HD11	1.91	0.53
4:EK:205:ASP:OD2	4:EK:304:LYS:NZ	2.33	0.53
3:EL:40:SER:HB2	3:EL:43:GLN:HG2	1.91	0.53
11:F2:153:LYS:HD2	11:F2:254:ILE:HD11	1.90	0.53
11:F2:163:LEU:O	11:F2:166:GLU:HG2	2.09	0.53
11:F2:376:MET:HE2	11:F2:380:ARG:HH21	1.74	0.53
11:F3:112:TRP:O	11:F3:115:ARG:HG3	2.09	0.53
11:F3:153:LYS:HZ3	11:F3:258:SER:HB3	1.74	0.53
11:F3:391:MET:N	11:F3:391:MET:HE2	2.24	0.53
11:F7:95:TRP:O	11:F7:98:SER:OG	2.19	0.53
11:F7:402:ARG:NH1	11:F7:408:CYS:H	2.05	0.53
3:FD:152:ILE:HD12	3:FD:195:ASN:HB2	1.91	0.53
3:FD:379:LYS:O	3:FD:382:SER:OG	2.14	0.53
3:FF:111:GLU:HG2	3:FF:112:LEU:HD12	1.90	0.53
11:Fb:127:LYS:HA	11:Fb:130:LEU:HD12	1.90	0.53
11:Fc:180:ALA:O	11:Fc:183:GLU:HG2	2.09	0.53
11:Fe:153:LYS:HA	11:Fe:257:LYS:HE2	1.89	0.53
11:Fj:186:CYS:O	11:Fj:189:GLN:HG3	2.09	0.53
11:Fk:132:HIS:O	11:Fk:135:GLN:NE2	2.42	0.53
11:Fk:161:ASP:O	11:Fk:164:LEU:HG	2.08	0.53
14:G4:392:PRO:HA	14:G4:496:SER:HA	1.89	0.53
14:G4:415:ARG:HH12	14:G4:417:ASN:HA	1.73	0.53
14:G4:721:TRP:HE1	14:G4:725:PRO:HD2	1.74	0.53
3:GB:12:CYS:HB3	39:GB:501:GTP:O4'	2.09	0.53
3:GD:12:CYS:SG	3:GD:13:GLY:N	2.81	0.53
4:GE:102:ASN:HB3	4:GE:105:ARG:HB2	1.90	0.53
4:GG:318:LEU:HD13	4:GG:354:GLY:HA3	1.91	0.53
4:GG:319:TYR:N	4:GG:354:GLY:O	2.42	0.53
3:GH:375:GLN:HA	3:GH:378:PHE:CZ	2.44	0.53
4:GI:34:GLY:HA2	4:GI:86:LEU:HD11	1.91	0.53
4:GI:180:ALA:O	4:GI:183:GLU:HG2	2.09	0.53
4:GK:108:TYR:O	4:GK:112:LYS:NZ	2.32	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H1:34:THR:O	15:H1:38:THR:HG23	2.08	0.53
15:H2:234:MET:HG2	15:H2:235:ASN:H	1.74	0.53
15:H6:45:ASP:HB3	15:H6:46:PRO:HD3	1.91	0.53
4:HA:230:LEU:O	4:HA:234:ILE:HG12	2.09	0.53
3:HB:139:LEU:HD21	3:HB:170:VAL:HG22	1.90	0.53
3:HB:178:THR:OG1	3:HB:181:GLU:HB2	2.08	0.53
4:HG:254:GLU:OE1	4:HG:254:GLU:N	2.40	0.53
3:HH:238:THR:HG22	3:HH:241:ARG:HH21	1.74	0.53
4:HI:53:PHE:O	4:HI:64:ARG:NH1	2.41	0.53
4:HI:118:VAL:HA	4:HI:121:ARG:HG2	1.90	0.53
4:HI:171:ILE:HD12	4:HI:204:VAL:HG13	1.89	0.53
3:HJ:158:GLU:HG3	3:HJ:159:TYR:CD2	2.44	0.53
4:HK:10:GLY:O	4:HK:14:VAL:HG13	2.09	0.53
4:HK:186:ASN:OD1	4:HK:187:SER:N	2.42	0.53
3:HL:170:VAL:N	3:HL:202:ILE:O	2.34	0.53
4:IA:319:TYR:HB2	4:IA:355:ILE:HD13	1.91	0.53
3:IB:277:GLY:O	3:IB:280:GLN:NE2	2.42	0.53
3:IB:309:ARG:H	3:IB:372:THR:HG1	1.55	0.53
3:ID:277:GLY:O	3:ID:280:GLN:NE2	2.42	0.53
3:ID:295:ASP:HB2	3:ID:298:ASN:HB2	1.90	0.53
3:IF:101:TRP:HB2	3:IF:184:ASN:HD22	1.73	0.53
3:IH:322:SER:OG	3:IH:324:LYS:NZ	2.42	0.53
3:IL:21:TRP:HZ3	3:IL:51:TYR:HE1	1.57	0.53
3:IL:252:LYS:O	3:IL:256:ASN:ND2	2.42	0.53
3:IL:269:GLY:HA3	3:IL:367:PHE:HB3	1.91	0.53
4:IM:358:GLN:NE2	4:IM:359:PRO:O	2.41	0.53
3:JB:268:PRO:HD2	3:JB:301:ALA:HB2	1.89	0.53
4:JC:69:ASP:OD1	4:JC:70:LEU:N	2.42	0.53
3:JH:305:PRO:HB2	3:JH:310:TYR:HE1	1.74	0.53
4:JI:145:THR:OG1	39:JI:501:GTP:O1B	2.23	0.53
20:K:219:LYS:HA	20:K:268:MET:HE1	1.91	0.53
21:K2:396:PRO:HA	21:K2:399:ARG:HH21	1.71	0.53
21:K3:377:ILE:C	21:K4:115:ARG:HH21	2.17	0.53
21:K4:169:ARG:HA	21:K4:172:LEU:HD12	1.91	0.53
3:KB:46:ARG:HH22	4:KC:73:THR:HA	1.74	0.53
4:KC:254:GLU:O	4:KC:258:ASN:ND2	2.24	0.53
3:KD:152:ILE:HD12	3:KD:155:ILE:HD11	1.91	0.53
3:KD:385:PHE:HA	3:KD:388:MET:HE2	1.90	0.53
4:KG:245:ASP:O	4:KG:356:ASN:ND2	2.42	0.53
3:KH:296:ALA:HA	3:KH:299:MET:HE3	1.90	0.53
4:KI:88:HIS:CE1	4:KI:121:ARG:HH22	2.26	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:KI:171:ILE:HD12	4:KI:204:VAL:HG13	1.90	0.53
22:L2:133:LYS:HZ1	4:LG:113:GLU:CD	2.17	0.53
22:L3:177:GLN:HA	22:L3:180:LEU:HB2	1.91	0.53
22:L3:190:ASP:HA	22:L3:193:ARG:NH1	2.24	0.53
22:L3:220:SER:HA	4:VI:44:GLY:H	1.73	0.53
4:LE:115:VAL:HA	4:LE:118:VAL:HG22	1.91	0.53
3:LH:12:CYS:HB3	39:LH:501:GTP:H5'	1.91	0.53
4:LI:271:THR:HB	4:LI:377:MET:HE2	1.91	0.53
3:LJ:176:SER:O	3:LJ:178:THR:N	2.41	0.53
4:LK:34:GLY:HA2	4:LK:86:LEU:HD21	1.91	0.53
3:MB:28:HIS:CE1	3:MB:241:ARG:HE	2.21	0.53
3:MB:415:MET:O	3:MB:419:VAL:HG23	2.08	0.53
3:MF:73:MET:HE1	3:MF:92:PHE:HB3	1.91	0.53
4:MG:1:MET:O	4:MG:133:GLN:NE2	2.38	0.53
3:ML:7:LEU:HD13	3:ML:64:VAL:HB	1.91	0.53
3:ML:8:GLN:HB3	3:ML:65:LEU:HA	1.91	0.53
4:MM:154:MET:HE3	4:MM:194:THR:HG22	1.90	0.53
3:NB:84:ILE:O	3:NB:86:ARG:NH1	2.42	0.53
4:NC:244:PHE:HB2	4:NC:356:ASN:HD21	1.74	0.53
3:ND:28:HIS:ND1	3:ND:43:GLN:HB2	2.24	0.53
3:ND:235:GLY:O	3:ND:238:THR:OG1	2.23	0.53
28:O2:38:TYR:CE1	30:Q2:1414:LEU:HD23	2.44	0.53
28:O2:91:ASN:HA	28:O2:94:LYS:HZ2	1.74	0.53
4:OC:139:HIS:CD2	4:OC:170:ALA:HB2	2.44	0.53
3:OD:322:SER:N	3:OD:325:GLU:OE2	2.42	0.53
4:OE:220:GLU:O	4:OE:221:ARG:NE	2.42	0.53
4:OG:33:ASP:OD1	4:OG:34:GLY:N	2.41	0.53
4:OK:256:GLN:O	4:OK:260:VAL:HG12	2.08	0.53
4:OK:287:SER:OG	4:OK:290:GLU:OE1	2.24	0.53
3:OL:19:LYS:NZ	3:OL:223:GLY:O	2.41	0.53
3:OL:234:SER:O	3:OL:238:THR:HG23	2.08	0.53
27:P:34:ASN:HA	27:P:37:ILE:HG22	1.90	0.53
29:P1:483:GLY:HA2	29:P1:503:THR:O	2.09	0.53
29:P2:167:SER:OG	29:P2:217:ASP:OD2	2.27	0.53
29:P3:602:ILE:CG2	29:P3:614:TRP:HB2	2.39	0.53
4:PA:6:SER:HA	4:PA:136:LEU:HB2	1.91	0.53
3:PB:346:PRO:HD2	4:PC:394:LYS:NZ	2.23	0.53
4:PC:1:MET:O	4:PC:131:GLY:HA3	2.09	0.53
4:PG:17:GLY:O	4:PG:21:TRP:HD1	1.92	0.53
4:PG:154:MET:HA	4:PG:157:LEU:HG	1.91	0.53
4:PG:321:GLY:N	4:PG:356:ASN:O	2.30	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:PG:395:PHE:HD2	4:PG:422:ARG:HH11	1.57	0.53
3:PH:32:PRO:O	3:PH:83:GLN:NE2	2.33	0.53
3:PH:152:ILE:HA	3:PH:155:ILE:HG12	1.90	0.53
4:PI:415:GLU:OE2	4:PI:419:SER:OG	2.25	0.53
3:PL:261:PRO:HD3	4:PM:406:HIS:CG	2.45	0.53
4:PM:186:ASN:OD1	4:PM:187:SER:N	2.42	0.53
30:Q2:1478:LEU:O	30:Q2:1483:ILE:HB	2.09	0.53
3:QB:316:VAL:HG22	3:QB:352:ALA:HB3	1.91	0.53
3:QF:28:HIS:ND1	3:QF:43:GLN:HB2	2.23	0.53
3:QF:269:GLY:HA2	3:QF:300:MET:HE1	1.90	0.53
3:QH:28:HIS:ND1	3:QH:43:GLN:HB2	2.23	0.53
4:QM:273:ALA:N	4:QM:377:MET:HE1	2.23	0.53
31:R1:118:ARG:HD3	31:R1:142:ARG:HB3	1.90	0.53
4:RE:67:PHE:HB2	4:RE:92:LEU:HD13	1.91	0.53
4:RG:317:MET:SD	4:RG:317:MET:N	2.79	0.53
4:RG:427:ALA:HA	4:RG:430:LYS:HG2	1.90	0.53
3:RJ:374:ILE:HA	3:RJ:377:LEU:HD13	1.90	0.53
3:SD:132:GLY:HA3	3:SD:163:ILE:H	1.74	0.53
3:SF:266:PHE:HB3	3:SF:368:ILE:HD11	1.91	0.53
3:SF:392:LYS:HB2	3:SF:395:LEU:HD13	1.90	0.53
4:SI:115:VAL:HA	4:SI:118:VAL:HG22	1.91	0.53
3:SL:273:LEU:H	3:SL:292:GLN:HE22	1.56	0.53
4:TC:415:GLU:OE1	4:TC:419:SER:OG	2.27	0.53
3:TD:174:LYS:HG3	3:TD:175:VAL:HG12	1.90	0.53
3:TH:118:ASP:OD1	3:TH:121:ARG:NH1	2.42	0.53
3:TH:375:GLN:HA	3:TH:378:PHE:CZ	2.44	0.53
3:TJ:235:GLY:O	3:TJ:318:ARG:NH2	2.42	0.53
3:TL:7:LEU:HD13	3:TL:64:VAL:HB	1.91	0.53
3:TL:398:TYR:HB3	3:TL:403:MET:HB2	1.91	0.53
3:TN:3:GLU:HG2	3:TN:130:LEU:HD23	1.90	0.53
3:TN:9:ALA:HB3	3:TN:137:HIS:HB3	1.91	0.53
3:TN:218:THR:OG1	3:TN:219:THR:N	2.42	0.53
3:UB:257:MET:O	3:UB:259:PRO:HD3	2.08	0.53
3:UB:323:MET:N	3:UB:323:MET:SD	2.82	0.53
4:UC:34:GLY:HA2	4:UC:86:LEU:HD11	1.90	0.53
4:UC:207:GLU:HB2	4:UC:304:LYS:NZ	2.24	0.53
3:UF:183:TYR:CZ	3:UF:388:MET:HG3	2.44	0.53
4:UI:103:TYR:HB2	4:UI:186:ASN:HB2	1.91	0.53
4:UI:188:ILE:HG22	4:UI:421:ALA:HB1	1.91	0.53
4:VC:269:LEU:N	4:VC:379:SER:O	2.30	0.53
3:VD:378:PHE:CD1	3:VD:419:VAL:HG22	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VF:406:MET:O	3:VF:409:THR:OG1	2.22	0.53
4:VG:115:VAL:HA	4:VG:118:VAL:HG22	1.91	0.53
3:VH:415:MET:O	3:VH:419:VAL:HG23	2.09	0.53
3:VJ:406:MET:O	3:VJ:409:THR:OG1	2.21	0.53
4:VK:187:SER:O	4:VK:190:THR:OG1	2.22	0.53
4:WA:172:TYR:N	4:WA:204:VAL:O	2.31	0.53
4:WA:215:ARG:NH1	4:WA:299:ALA:O	2.27	0.53
3:WB:385:PHE:HZ	3:WB:408:PHE:HB3	1.73	0.53
4:WC:208:ALA:N	4:WC:304:LYS:HZ1	2.04	0.53
3:WF:132:GLY:HA3	3:WF:163:ILE:H	1.74	0.53
3:WH:72:THR:O	3:WH:75:SER:OG	2.24	0.53
3:WH:318:ARG:C	3:WH:321:MET:HE1	2.34	0.53
4:WI:326:LYS:NZ	3:WJ:208:TYR:O	2.41	0.53
3:WJ:299:MET:SD	3:WJ:301:ALA:N	2.82	0.53
34:XA:50:GLU:OE1	34:XA:159:ASN:ND2	2.40	0.53
34:XA:76:LEU:HD13	34:XA:167:PHE:CD1	2.44	0.53
34:XC:90:GLU:HB3	34:XC:104:ARG:HD3	1.91	0.53
35:XI:145:ASN:HB3	35:XI:148:ILE:HD12	1.91	0.53
35:XJ:158:HIS:O	35:XJ:162:SER:OG	2.21	0.53
35:XK:89:TYR:CE2	35:XK:122:GLY:HA3	2.44	0.53
37:YK:59:ASN:HB2	37:YK:62:HIS:CE1	2.43	0.53
37:YK:140:LEU:HG	37:YK:141:ILE:HD12	1.91	0.53
37:YM:14:LYS:O	37:YM:18:PHE:N	2.40	0.53
37:YN:25:PHE:HA	37:YN:65:ILE:HD12	1.91	0.53
36:Z:217:GLU:O	36:Z:220:LYS:HG2	2.09	0.53
1:A:308:GLU:HA	1:A:311:ARG:NE	2.25	0.52
2:A1:139:GLU:OE2	2:A1:256:GLN:HG3	2.09	0.52
2:A4:93:THR:O	2:A4:96:THR:OG1	2.22	0.52
3:AB:28:HIS:O	3:AB:43:GLN:NE2	2.43	0.52
4:AI:5:ILE:HD13	4:AI:64:ARG:HB3	1.90	0.52
4:AI:192:HIS:HA	4:AI:195:LEU:HD23	1.89	0.52
4:AK:187:SER:O	4:AK:190:THR:OG1	2.21	0.52
3:AL:269:GLY:N	3:AL:367:PHE:O	2.42	0.52
4:AM:271:THR:HB	4:AM:377:MET:HB3	1.90	0.52
5:B1:302:GLU:HG2	5:B1:306:ARG:HH22	1.73	0.52
5:B8:120:ARG:HH21	5:B8:386:LEU:HB3	1.74	0.52
3:BF:313:VAL:HG23	3:BF:349:VAL:HA	1.91	0.52
3:BF:317:PHE:HB3	3:BF:321:MET:HE3	1.91	0.52
3:BH:235:GLY:O	3:BH:238:THR:OG1	2.25	0.52
4:BK:220:GLU:HG2	4:BK:221:ARG:HG2	1.90	0.52
3:BL:109:GLY:O	3:BL:113:VAL:HG13	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C3:120:LEU:HD13	7:C4:444:THR:HG21	1.91	0.52
7:C4:199:LEU:O	7:C4:201:HIS:N	2.41	0.52
7:C5:384:LYS:HE2	10:E4:76:TRP:CE3	2.44	0.52
7:C6:114:ARG:HH12	7:C7:367:LYS:HG3	1.74	0.52
7:C9:232:ARG:O	7:C9:236:HIS:ND1	2.31	0.52
3:CB:406:MET:O	3:CB:409:THR:OG1	2.22	0.52
4:CC:51:THR:HG23	4:CC:52:PHE:CD2	2.44	0.52
4:CC:287:SER:N	4:CC:290:GLU:OE2	2.41	0.52
3:CD:276:ARG:CZ	14:G4:326:GLY:HA3	2.39	0.52
4:CE:419:SER:HA	4:CE:422:ARG:HE	1.72	0.52
3:CF:415:MET:O	3:CF:419:VAL:HG23	2.09	0.52
4:CG:139:HIS:CE1	4:CG:168:GLU:HB2	2.44	0.52
4:CI:423:GLU:HA	4:CI:426:ALA:HB3	1.91	0.52
3:CJ:305:PRO:HB2	3:CJ:310:TYR:HE1	1.74	0.52
8:D2:276:VAL:HG12	8:D2:280:LYS:HZ2	1.74	0.52
8:D6:376:ARG:NH1	8:D7:102:LYS:HD3	2.24	0.52
8:D7:430:CYS:HA	8:D7:433:HIS:CD2	2.43	0.52
8:D8:360:ARG:HG2	8:D8:363:ARG:HH12	1.74	0.52
3:DB:151:LEU:O	3:DB:155:ILE:HG12	2.09	0.52
4:DC:331:ALA:O	4:DC:334:THR:OG1	2.24	0.52
4:DG:349:THR:HG23	3:DH:179:VAL:HG12	1.91	0.52
4:DG:351:PHE:CZ	3:DH:175:VAL:HB	2.44	0.52
4:DI:105:ARG:HG2	4:DI:109:THR:HG21	1.92	0.52
4:DI:113:GLU:N	4:DI:113:GLU:OE1	2.41	0.52
9:E:574:HIS:CD2	9:E:577:LYS:HZ1	2.27	0.52
10:E1:106:PRO:O	10:E1:110:THR:HG23	2.09	0.52
10:E2:147:LYS:HD3	10:E2:148:GLU:O	2.09	0.52
4:EC:88:HIS:CE1	4:EC:121:ARG:HH22	2.26	0.52
4:EC:434:GLU:HA	4:EC:437:VAL:HB	1.90	0.52
3:ED:109:GLY:O	3:ED:113:VAL:HG13	2.09	0.52
3:EF:139:LEU:HD21	3:EF:170:VAL:HG22	1.92	0.52
4:EG:49:PHE:O	4:EG:53:PHE:N	2.40	0.52
4:EG:135:PHE:HD2	4:EG:157:LEU:HD21	1.73	0.52
3:EJ:324:LYS:HE2	4:EK:222:PRO:CD	2.39	0.52
4:EK:254:GLU:OE1	4:EK:254:GLU:N	2.40	0.52
3:EL:111:GLU:HG2	3:EL:112:LEU:HD12	1.91	0.52
3:EL:113:VAL:HA	3:EL:116:VAL:HG22	1.91	0.52
11:F3:199:GLU:OE1	11:F7:248:HIS:NE2	2.41	0.52
11:F5:145:ARG:NH2	11:F6:410:ASP:HB3	2.23	0.52
11:F6:355:ASN:O	11:F6:358:GLN:HG3	2.10	0.52
11:F7:170:MET:O	11:F7:173:LEU:HG	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:F8:198:ARG:O	11:F8:201:ARG:NE	2.34	0.52
4:FA:1:MET:O	4:FA:133:GLN:NE2	2.29	0.52
4:FC:286:LEU:O	4:FC:373:ARG:NH2	2.38	0.52
4:FC:386:GLU:HA	4:FC:389:ALA:HB3	1.91	0.52
4:FE:81:GLY:O	4:FE:84:ARG:NH1	2.42	0.52
4:FE:226:ASN:ND2	4:FE:367:ASP:OD2	2.42	0.52
3:FH:176:SER:O	3:FH:178:THR:N	2.42	0.52
4:FK:118:VAL:HA	4:FK:121:ARG:HG2	1.92	0.52
4:FK:172:TYR:N	4:FK:204:VAL:O	2.28	0.52
11:Fe:197:ASN:OD1	11:Fe:200:LYS:NZ	2.38	0.52
11:Fi:169:SER:O	11:Fi:172:THR:OG1	2.20	0.52
11:Fl:124:MET:HG2	11:Fl:318:ARG:HH22	1.74	0.52
11:Fl:209:ASP:HB3	11:Fl:346:ARG:HH21	1.72	0.52
11:Fm:251:GLU:O	11:Fm:254:ILE:HG22	2.09	0.52
12:G:447:TYR:HD2	12:G:448:ARG:HD3	1.74	0.52
13:G3:525:PRO:HA	13:G3:528:LEU:HD12	1.90	0.52
14:G5:487:LYS:HZ3	14:G5:501:TYR:HE1	1.55	0.52
14:G5:709:ALA:O	14:G5:711:PRO:HD3	2.08	0.52
4:GA:318:LEU:O	4:GA:375:VAL:HA	2.09	0.52
4:GC:295:CYS:HB2	4:GC:377:MET:HE3	1.91	0.52
4:GE:85:GLN:OE1	4:GE:85:GLN:N	2.36	0.52
3:GH:380:ARG:O	3:GH:384:GLN:HG2	2.09	0.52
4:GK:269:LEU:N	4:GK:379:SER:O	2.35	0.52
4:HA:11:GLN:O	4:HA:14:VAL:HG22	2.10	0.52
3:HD:306:ARG:O	3:HD:306:ARG:NE	2.42	0.52
4:HE:154:MET:HA	4:HE:157:LEU:HG	1.90	0.52
4:HE:234:ILE:HD11	4:HE:272:TYR:HB2	1.90	0.52
4:HI:187:SER:O	4:HI:190:THR:OG1	2.24	0.52
4:HI:272:TYR:CZ	4:HI:274:PRO:HG2	2.44	0.52
4:HI:375:VAL:HG13	4:HI:377:MET:SD	2.50	0.52
3:HL:317:PHE:O	3:HL:354:CYS:N	2.30	0.52
17:I2:49:PHE:HA	17:I2:52:LEU:HG	1.91	0.52
4:IC:233:GLN:NE2	4:IC:234:ILE:HG12	2.24	0.52
3:IF:269:GLY:N	3:IF:367:PHE:O	2.42	0.52
4:IG:272:TYR:CZ	4:IG:274:PRO:HG2	2.44	0.52
3:IH:235:GLY:O	3:IH:238:THR:OG1	2.22	0.52
4:II:12:ALA:HB1	39:II:501:GTP:C2	2.44	0.52
4:IK:229:ARG:HH21	4:IK:363:VAL:HG22	1.75	0.52
4:IM:17:GLY:O	4:IM:21:TRP:HD1	1.92	0.52
18:J:140:THR:HG21	3:JH:40:SER:HA	1.91	0.52
19:J2:166:ARG:O	19:J2:168:ILE:HG23	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JB:380:ARG:O	3:JB:384:GLN:HG2	2.09	0.52
3:JB:415:MET:O	3:JB:419:VAL:HG23	2.09	0.52
3:JD:316:VAL:HG22	3:JD:352:ALA:HB3	1.90	0.52
4:JE:172:TYR:HB2	4:JE:203:MET:HB3	1.90	0.52
3:JJ:328:GLU:OE1	3:JJ:332:ASN:ND2	2.41	0.52
4:JK:220:GLU:O	4:JK:221:ARG:NE	2.42	0.52
3:JL:139:LEU:HD21	3:JL:170:VAL:HG22	1.91	0.52
21:K1:421:LEU:C	21:K1:425:HIS:HD1	2.17	0.52
21:K3:261:ARG:HB2	21:K3:277:GLY:H	1.74	0.52
21:K3:344:LEU:O	21:K3:348:GLU:HG2	2.08	0.52
4:KA:33:ASP:OD1	4:KA:34:GLY:N	2.42	0.52
3:KB:39:ASP:OD1	3:KB:43:GLN:NE2	2.42	0.52
3:KB:101:TRP:HB2	3:KB:184:ASN:HD22	1.73	0.52
3:KD:5:VAL:HG23	3:KD:130:LEU:HD21	1.89	0.52
3:KD:102:ALA:O	3:KD:106:TYR:N	2.36	0.52
3:KF:12:CYS:SG	39:KF:501:GTP:H5'	2.49	0.52
3:KF:176:SER:O	3:KF:178:THR:N	2.42	0.52
4:KG:260:VAL:HG23	4:KG:265:ILE:O	2.08	0.52
3:KH:372:THR:HG21	3:KH:426:GLN:HG3	1.91	0.52
4:KI:287:SER:OG	4:KI:290:GLU:OE1	2.25	0.52
3:KJ:139:LEU:N	3:KJ:168:SER:OG	2.41	0.52
3:KJ:289:LEU:HD22	3:KJ:363:MET:HE2	1.91	0.52
22:L3:236:GLN:HA	22:L3:239:HIS:CE1	2.44	0.52
4:LA:279:GLU:H	27:Q:170:ARG:NH1	2.07	0.52
3:LD:8:GLN:HE22	3:LD:21:TRP:HE1	1.57	0.52
3:LD:52:ASN:CG	3:LD:62:ARG:HD3	2.34	0.52
3:LD:324:LYS:HD3	4:LE:222:PRO:HD2	1.91	0.52
3:LH:132:GLY:HA3	3:LH:163:ILE:H	1.73	0.52
4:LI:411:GLU:OE2	4:LI:413:MET:HE1	2.09	0.52
4:LK:329:ASN:OD1	4:LK:330:ALA:N	2.43	0.52
3:LL:12:CYS:HB3	39:LL:501:GTP:H5'	1.91	0.52
4:MC:67:PHE:O	4:MC:93:ILE:N	2.42	0.52
3:MD:306:ARG:HB3	28:O1:9:GLN:HE22	1.74	0.52
4:MG:320:ARG:HG2	4:MG:358:GLN:O	2.09	0.52
3:MH:4:ILE:HD11	3:MH:131:GLN:HB2	1.91	0.52
3:MH:117:LEU:HD11	3:MH:154:LYS:HD2	1.91	0.52
3:MJ:258:VAL:HB	4:MK:407:TRP:CZ2	2.44	0.52
4:MK:254:GLU:O	4:MK:258:ASN:ND2	2.22	0.52
4:MK:371:VAL:HG11	4:MK:374:ALA:HB2	1.91	0.52
3:ML:11:GLN:HE21	39:ML:501:GTP:H3'	1.74	0.52
4:NG:154:MET:HE1	4:NG:197:HIS:HB2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NH:262:ARG:NH2	3:NH:425:TYR:OH	2.36	0.52
4:NI:33:ASP:OD1	4:NI:34:GLY:N	2.41	0.52
4:OE:98:ASP:O	4:OE:105:ARG:NH2	2.32	0.52
4:OG:11:GLN:HG3	39:OG:501:GTP:O1B	2.09	0.52
4:OI:371:VAL:HG11	4:OI:374:ALA:HB2	1.90	0.52
4:OI:430:LYS:HA	4:OI:433:GLU:HG2	1.90	0.52
3:OL:250:LEU:O	3:OL:254:ALA:N	2.36	0.52
27:P:48:VAL:O	27:P:52:LYS:HG2	2.09	0.52
29:P2:107:LEU:HD12	29:P2:140:TRP:CZ3	2.44	0.52
29:P2:475:GLU:OE2	29:P2:496:ASN:ND2	2.42	0.52
4:PE:172:TYR:HB2	4:PE:203:MET:HB3	1.90	0.52
4:PG:88:HIS:HB3	4:PG:91:GLN:HB2	1.91	0.52
4:PG:189:LEU:HD11	4:PG:418:PHE:CZ	2.44	0.52
4:PG:195:LEU:HD22	4:PG:428:LEU:HD21	1.91	0.52
3:PH:290:THR:HG21	3:PH:329:GLN:HB3	1.91	0.52
30:Q2:1421:GLN:CD	30:Q2:1506:SER:HB3	2.34	0.52
4:QC:391:LEU:O	4:QC:395:PHE:N	2.36	0.52
4:QG:103:TYR:HB2	4:QG:186:ASN:HB2	1.90	0.52
4:QG:207:GLU:HB2	4:QG:304:LYS:NZ	2.24	0.52
3:QH:375:GLN:HA	3:QH:378:PHE:CZ	2.44	0.52
4:QK:88:HIS:CE1	4:QK:121:ARG:HH22	2.27	0.52
3:QL:247:ASN:HB3	3:QL:252:LYS:HD2	1.91	0.52
31:R1:260:ALA:O	31:R1:264:HIS:ND1	2.42	0.52
31:R1:275:LEU:HB2	31:R1:277:MET:HE1	1.91	0.52
31:R2:132:LEU:HB3	31:R2:137:GLU:OE2	2.09	0.52
31:R3:268:TYR:O	31:R3:276:ARG:HB3	2.09	0.52
3:RB:28:HIS:ND1	3:RB:43:GLN:HB2	2.25	0.52
4:RC:5:ILE:HD13	4:RC:64:ARG:HB3	1.91	0.52
4:RC:6:SER:HA	4:RC:136:LEU:HB2	1.90	0.52
4:RG:22:GLU:O	4:RG:26:LEU:HD23	2.09	0.52
4:RG:272:TYR:CZ	4:RG:274:PRO:HG2	2.43	0.52
4:RI:273:ALA:HB2	4:RI:295:CYS:HB3	1.91	0.52
4:RI:392:ASP:OD1	4:RI:393:HIS:N	2.42	0.52
4:RK:76:ASP:OD1	4:RK:79:ARG:NH1	2.42	0.52
4:RK:214:ARG:NH1	4:RK:215:ARG:HG3	2.24	0.52
3:SB:141:GLY:HA3	39:SB:501:GTP:H5"	1.91	0.52
3:SB:250:LEU:O	3:SB:254:ALA:N	2.41	0.52
3:SB:266:PHE:HD1	3:SB:370:ASN:HB2	1.74	0.52
4:SE:9:VAL:HA	4:SE:68:VAL:HG23	1.91	0.52
3:SF:302:ALA:HB1	3:SF:377:LEU:HD11	1.92	0.52
3:SF:375:GLN:HA	3:SF:378:PHE:CZ	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:SG:6:SER:HA	4:SG:136:LEU:HB2	1.91	0.52
4:SG:236:SER:O	4:SG:243:ARG:NH2	2.36	0.52
3:SH:249:ASP:O	3:SH:252:LYS:HB2	2.09	0.52
4:SK:161:TYR:O	4:SK:166:LYS:NZ	2.39	0.52
4:SM:245:ASP:CB	4:SM:249:ASN:HD21	2.22	0.52
3:TB:207:LEU:HD22	3:TB:228:LEU:HD11	1.90	0.52
4:TG:49:PHE:O	4:TG:53:PHE:N	2.41	0.52
4:TK:222:PRO:HB3	4:TK:226:ASN:HD22	1.74	0.52
4:TM:210:TYR:HE1	4:TM:227:LEU:HD21	1.73	0.52
3:UF:199:THR:N	3:UF:264:HIS:O	2.42	0.52
3:UF:249:ASP:HB3	3:UF:252:LYS:HB2	1.91	0.52
3:UJ:282:ARG:HE	3:UJ:288:GLU:CD	2.17	0.52
4:VA:269:LEU:N	4:VA:379:SER:O	2.37	0.52
4:VA:411:GLU:OE2	4:VA:413:MET:HE1	2.10	0.52
4:VC:254:GLU:OE1	4:VC:254:GLU:N	2.41	0.52
3:VD:316:VAL:HG22	3:VD:352:ALA:HB3	1.90	0.52
4:VG:70:LEU:HD12	4:VG:145:THR:HB	1.91	0.52
3:VJ:12:CYS:SG	39:VJ:501:GTP:H5'	2.49	0.52
4:VK:30:ILE:HG13	4:VK:53:PHE:HE2	1.73	0.52
3:VL:118:ASP:OD1	3:VL:121:ARG:NH1	2.42	0.52
3:WB:132:GLY:HA3	3:WB:163:ILE:H	1.74	0.52
3:WB:285:THR:O	3:WB:288:GLU:HG3	2.09	0.52
3:WD:67:ASP:OD2	3:WD:72:THR:OG1	2.25	0.52
3:WJ:172:SER:OG	3:WJ:205:GLU:OE2	2.19	0.52
3:WL:19:LYS:NZ	3:WL:223:GLY:O	2.40	0.52
34:XC:83:LEU:HD21	34:XC:161:ARG:HE	1.74	0.52
34:XF:20:LYS:HG3	34:XF:23:GLN:OE1	2.09	0.52
37:YM:68:MET:O	37:YM:72:ILE:HG13	2.09	0.52
37:YQ:140:LEU:O	37:YQ:144:VAL:HG23	2.09	0.52
1:A:92:ARG:NE	9:E:804:ILE:O	2.41	0.52
2:A1:136:LEU:HD21	2:A1:264:PHE:HZ	1.74	0.52
3:AB:73:MET:HA	3:AB:76:VAL:HG12	1.90	0.52
4:AC:186:ASN:OD1	4:AC:187:SER:N	2.43	0.52
4:AC:287:SER:OG	4:AC:290:GLU:OE1	2.24	0.52
3:AD:167:PHE:HD1	3:AD:200:TYR:HD2	1.57	0.52
4:AE:139:HIS:CD2	4:AE:170:ALA:HB2	2.43	0.52
4:AG:51:THR:HG23	4:AG:52:PHE:CD2	2.45	0.52
3:AH:19:LYS:NZ	3:AH:223:GLY:O	2.42	0.52
3:AH:118:ASP:OD1	3:AH:121:ARG:NH1	2.42	0.52
4:AI:271:THR:HA	4:AI:302:MET:HE1	1.90	0.52
3:AJ:197:ASP:OD1	3:AJ:198:GLU:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AL:378:PHE:HA	3:AL:381:ILE:HG12	1.92	0.52
5:B2:364:ASP:O	5:B2:368:LYS:HG2	2.09	0.52
5:B6:205:PRO:HG3	5:B7:315:HIS:CE1	2.43	0.52
5:B7:349:ILE:O	5:B7:353:LYS:HG2	2.09	0.52
3:BB:380:ARG:O	3:BB:384:GLN:HG2	2.09	0.52
3:BD:285:THR:O	3:BD:288:GLU:HG3	2.08	0.52
4:BE:216:ASN:OD1	4:BE:217:LEU:N	2.42	0.52
4:BE:273:ALA:N	4:BE:377:MET:HE1	2.24	0.52
3:BF:257:MET:HG3	3:BF:258:VAL:HG23	1.90	0.52
3:BH:81:PHE:O	3:BH:84:ILE:HG22	2.08	0.52
4:BM:79:ARG:HB3	15:H6:20:TYR:CE1	2.44	0.52
7:C3:132:TYR:O	7:C3:136:ARG:HG2	2.09	0.52
7:C3:216:GLU:N	7:C3:216:GLU:OE1	2.39	0.52
7:C5:382:ILE:O	7:C5:386:ILE:HG12	2.10	0.52
7:C8:105:VAL:O	7:C8:109:GLU:HG2	2.08	0.52
7:C8:147:GLY:O	7:C8:150:VAL:HG12	2.08	0.52
4:CC:50:ASN:O	4:CC:64:ARG:NH1	2.41	0.52
4:CC:287:SER:OG	4:CC:290:GLU:OE1	2.26	0.52
4:CE:1:MET:O	4:CE:131:GLY:HA3	2.08	0.52
4:CI:89:PRO:HD2	4:DG:280:LYS:HZ3	1.74	0.52
3:CJ:12:CYS:O	3:CJ:16:ILE:HG12	2.09	0.52
4:CK:2:ARG:NH1	4:CK:241:SER:O	2.42	0.52
7:Cc:363:THR:HG22	7:Cc:367:LYS:HZ1	1.75	0.52
8:D1:64:TYR:CE1	8:D2:317:LYS:HE2	2.44	0.52
8:D7:198:VAL:O	8:D7:202:ARG:HG2	2.09	0.52
8:D8:311:LEU:HB2	8:D8:423:LEU:HD21	1.91	0.52
8:D9:266:LEU:O	8:D9:269:GLU:HG2	2.09	0.52
4:DA:12:ALA:HB1	39:DA:501:GTP:N3	2.23	0.52
3:DH:324:LYS:NZ	4:DI:222:PRO:O	2.23	0.52
4:DI:271:THR:HB	4:DI:377:MET:HB2	1.90	0.52
9:E:587:GLN:C	9:E:591:ARG:HE	2.17	0.52
10:E1:151:VAL:HG23	10:E1:152:THR:HG22	1.90	0.52
4:EA:88:HIS:CE1	4:EA:121:ARG:HH22	2.27	0.52
4:EA:139:HIS:HE1	4:EA:168:GLU:HB3	1.74	0.52
4:EA:245:ASP:O	4:EA:356:ASN:ND2	2.41	0.52
3:EB:375:GLN:HA	3:EB:378:PHE:CZ	2.44	0.52
3:ED:84:ILE:O	3:ED:86:ARG:NH1	2.42	0.52
3:ED:322:SER:N	3:ED:325:GLU:OE2	2.41	0.52
4:EG:10:GLY:O	4:EG:14:VAL:HG13	2.10	0.52
4:EG:216:ASN:OD1	4:EG:217:LEU:N	2.42	0.52
3:EH:139:LEU:HD21	3:EH:170:VAL:HG22	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EH:372:THR:HB	3:EH:375:GLN:HE22	1.74	0.52
3:EJ:3:GLU:HG2	3:EJ:130:LEU:HD13	1.90	0.52
3:EJ:410:GLU:HA	3:EJ:413:SER:HB3	1.91	0.52
3:EL:293:MET:HE3	3:EL:367:PHE:HB2	1.91	0.52
11:F2:141:ASN:O	11:F2:145:ARG:HG2	2.09	0.52
11:F5:233:ALA:O	11:F5:236:ILE:HG22	2.09	0.52
4:FC:203:MET:SD	4:FC:203:MET:N	2.83	0.52
4:FC:287:SER:OG	4:FC:290:GLU:OE1	2.24	0.52
4:FI:172:TYR:N	4:FI:204:VAL:O	2.33	0.52
3:FJ:374:ILE:HG23	3:FJ:377:LEU:HD12	1.92	0.52
3:FL:374:ILE:HA	3:FL:377:LEU:HD13	1.90	0.52
11:Fb:438:GLN:O	11:Fb:441:LEU:HG	2.09	0.52
11:Ff:180:ALA:O	11:Ff:184:VAL:HG23	2.09	0.52
11:Ff:376:MET:O	11:Ff:380:ARG:HG2	2.10	0.52
11:Fi:195:LEU:O	11:Fi:198:ARG:HG3	2.09	0.52
11:Fj:181:ALA:HB2	11:Fj:229:MET:HE1	1.90	0.52
13:G1:381:LEU:HD12	13:G1:382:PRO:HD2	1.90	0.52
14:G5:328:VAL:HG13	14:G5:330:GLN:NE2	2.24	0.52
14:G5:734:ARG:HE	14:G5:735:TYR:H	1.58	0.52
4:GA:203:MET:SD	4:GA:203:MET:N	2.83	0.52
3:GB:412:GLU:OE1	3:GB:416:ASN:ND2	2.42	0.52
4:GC:68:VAL:HG12	4:GC:93:ILE:HB	1.91	0.52
4:GC:202:PHE:CD1	4:GC:268:PRO:HD2	2.44	0.52
3:GD:217:LEU:HD11	3:GD:220:PRO:HB3	1.91	0.52
4:GE:12:ALA:HB1	39:GE:501:GTP:C2	2.44	0.52
3:GF:48:ASN:O	3:GF:62:ARG:NH2	2.37	0.52
3:GF:70:PRO:HA	3:GF:73:MET:HE3	1.91	0.52
4:GG:316:CYS:SG	4:GG:378:LEU:HB3	2.49	0.52
4:GK:254:GLU:O	4:GK:258:ASN:ND2	2.22	0.52
15:H6:226:PRO:HG2	15:H6:247:PHE:CZ	2.44	0.52
3:HD:12:CYS:HA	39:HD:501:GTP:N2	2.25	0.52
3:HD:33:THR:O	3:HD:58:LYS:NZ	2.42	0.52
3:HD:328:GLU:OE1	3:HD:332:ASN:ND2	2.41	0.52
3:HD:350:LYS:HE3	4:HE:180:ALA:HA	1.91	0.52
4:HG:261:PRO:HA	3:HH:394:PHE:CE1	2.40	0.52
3:HH:259:PRO:HD2	3:HH:263:LEU:HD12	1.92	0.52
4:IE:105:ARG:O	4:IE:109:THR:OG1	2.19	0.52
4:IE:186:ASN:HA	4:IE:189:LEU:HB2	1.91	0.52
4:IG:25:CYS:O	4:IG:30:ILE:N	2.40	0.52
4:IG:224:TYR:CE2	39:IG:501:GTP:C5	2.95	0.52
4:IG:329:ASN:HA	4:IG:332:ILE:HG12	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IH:135:LEU:O	3:IH:167:PHE:N	2.38	0.52
3:IH:324:LYS:HD2	4:II:221:ARG:HA	1.91	0.52
4:IK:206:ASN:HA	4:IK:209:ILE:HD12	1.91	0.52
4:IK:217:LEU:HD13	4:IK:277:SER:HA	1.91	0.52
3:IL:189:VAL:HA	3:IL:192:LEU:HB2	1.90	0.52
3:IL:295:ASP:HB3	3:IL:298:ASN:HB2	1.90	0.52
4:IM:363:VAL:HG12	4:IM:368:LEU:HD22	1.91	0.52
4:IM:419:SER:HA	4:IM:422:ARG:HE	1.74	0.52
3:JB:55:THR:O	3:JB:58:LYS:HE2	2.08	0.52
3:JD:379:LYS:O	3:JD:382:SER:OG	2.18	0.52
4:JK:103:TYR:HB2	4:JK:186:ASN:HB2	1.91	0.52
21:K3:267:ILE:HG23	21:K3:301:LYS:HA	1.89	0.52
4:KA:120:ASP:OD1	4:KA:123:ARG:NH2	2.42	0.52
3:KB:269:GLY:HA3	3:KB:367:PHE:HB3	1.90	0.52
4:KC:22:GLU:O	4:KC:26:LEU:HD23	2.09	0.52
3:KF:47:ILE:HA	3:KF:241:ARG:HE	1.74	0.52
4:KI:386:GLU:HA	4:KI:389:ALA:HB3	1.90	0.52
3:KJ:277:GLY:O	3:KJ:280:GLN:NE2	2.42	0.52
4:KK:12:ALA:HB1	39:KK:501:GTP:N3	2.25	0.52
22:L3:159:CYS:O	22:L3:163:GLU:N	2.37	0.52
22:L3:171:GLU:HA	22:L3:174:ASN:HB2	1.90	0.52
3:LB:16:ILE:HD13	3:LB:226:ASN:HD22	1.72	0.52
3:LB:214:THR:HG21	3:LB:273:LEU:HB3	1.89	0.52
4:LE:51:THR:HG23	4:LE:52:PHE:HD2	1.74	0.52
4:LE:216:ASN:HB2	4:LE:276:ILE:HD12	1.91	0.52
3:LF:166:THR:OG1	3:LF:198:GLU:O	2.21	0.52
4:LG:319:TYR:HE2	4:LG:328:VAL:HG13	1.74	0.52
24:M2:47:LEU:O	24:M2:49:GLN:NE2	2.41	0.52
24:M2:57:VAL:HG13	24:M2:59:PRO:HD3	1.90	0.52
3:MB:271:ALA:HB2	3:MB:365:ALA:O	2.10	0.52
4:MC:172:TYR:HB2	4:MC:203:MET:HB2	1.91	0.52
3:MD:285:THR:O	3:MD:288:GLU:HG3	2.10	0.52
3:MH:391:ARG:O	3:MH:392:LYS:HG3	2.09	0.52
4:MK:75:VAL:HG22	4:MK:79:ARG:HH21	1.74	0.52
3:ML:347:ASN:HB3	4:MM:178:SER:HB3	1.92	0.52
26:N4:74:ARG:O	26:N4:74:ARG:NH1	2.42	0.52
4:NA:295:CYS:HB2	4:NA:377:MET:HE3	1.90	0.52
3:ND:91:VAL:HG11	3:ND:116:VAL:HG12	1.91	0.52
4:NE:1:MET:O	4:NE:133:GLN:NE2	2.41	0.52
4:NG:263:PRO:HD3	3:NH:396:HIS:CD2	2.45	0.52
3:NH:47:ILE:HG13	3:NH:51:TYR:HB2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NJ:3:GLU:HG2	3:NJ:130:LEU:HD23	1.91	0.52
3:NJ:175:VAL:HG22	3:NJ:177:ASP:H	1.74	0.52
4:NK:208:ALA:H	4:NK:304:LYS:HZ1	1.56	0.52
4:OG:187:SER:O	4:OG:191:THR:HG23	2.09	0.52
3:OH:423:GLN:O	3:OH:427:ASP:N	2.42	0.52
4:OI:388:TRP:HB3	4:OI:425:LEU:HD11	1.90	0.52
4:OK:286:LEU:HD11	4:OK:373:ARG:H	1.74	0.52
29:P2:416:HIS:CD2	29:P2:420:VAL:HG22	2.43	0.52
29:P2:508:VAL:HG23	29:P2:519:THR:HG22	1.90	0.52
29:P3:390:ILE:HG22	29:P3:423:ILE:HD11	1.90	0.52
3:PB:218:THR:OG1	3:PB:219:THR:N	2.42	0.52
3:PD:118:ASP:OD1	3:PD:121:ARG:NH1	2.42	0.52
3:PD:234:SER:O	3:PD:238:THR:HG23	2.09	0.52
4:PE:115:VAL:HA	4:PE:118:VAL:HG22	1.91	0.52
4:PE:338:LYS:HZ2	4:PE:340:THR:H	1.56	0.52
3:PJ:11:GLN:HE21	39:PJ:501:GTP:H3'	1.73	0.52
3:QB:12:CYS:SG	3:QB:13:GLY:N	2.83	0.52
3:QB:322:SER:N	3:QB:325:GLU:OE2	2.42	0.52
3:QD:16:ILE:HD13	3:QD:226:ASN:ND2	2.24	0.52
3:QD:268:PRO:HD2	3:QD:301:ALA:HB2	1.91	0.52
3:QF:211:CYS:HA	3:QF:215:LEU:HB2	1.90	0.52
4:QG:287:SER:OG	4:QG:290:GLU:OE1	2.17	0.52
4:QI:154:MET:HE1	4:QI:197:HIS:HB2	1.92	0.52
3:QJ:269:GLY:N	3:QJ:367:PHE:O	2.43	0.52
3:QJ:385:PHE:HA	3:QJ:388:MET:HE2	1.89	0.52
4:QK:423:GLU:HA	4:QK:426:ALA:HB3	1.91	0.52
4:RE:16:ILE:HD11	4:RE:138:PHE:HB3	1.91	0.52
4:RE:22:GLU:O	4:RE:26:LEU:HD23	2.09	0.52
4:RI:12:ALA:HB2	39:RI:501:GTP:H5"	1.90	0.52
4:RI:22:GLU:HG2	4:RI:83:TYR:CE2	2.45	0.52
3:SB:415:MET:O	3:SB:419:VAL:HG23	2.08	0.52
4:SC:125:LEU:HD13	4:SC:128:LEU:HD21	1.91	0.52
4:SC:371:VAL:HG11	4:SC:374:ALA:HB2	1.90	0.52
3:SD:305:PRO:HA	3:SD:373:ALA:HB2	1.91	0.52
3:SD:316:VAL:HG22	3:SD:352:ALA:HB3	1.90	0.52
4:SE:208:ALA:N	4:SE:304:LYS:HZ1	2.06	0.52
3:SF:139:LEU:N	3:SF:168:SER:OG	2.41	0.52
4:SG:33:ASP:OD1	4:SG:34:GLY:N	2.41	0.52
3:SH:5:VAL:HG23	3:SH:130:LEU:HD21	1.91	0.52
3:SH:186:THR:HB	3:SH:385:PHE:CZ	2.44	0.52
4:SI:168:GLU:HB2	4:SI:201:ALA:HA	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:SM:154:MET:HE1	4:SM:197:HIS:HB2	1.91	0.52
3:TB:11:GLN:HG3	39:TB:501:GTP:PA	2.48	0.52
4:TC:282:TYR:HB2	36:Y:212:HIS:NE2	2.24	0.52
3:TD:378:PHE:CD1	3:TD:419:VAL:HG22	2.45	0.52
4:TE:272:TYR:CZ	4:TE:274:PRO:HG2	2.45	0.52
3:TF:28:HIS:ND1	3:TF:43:GLN:HB2	2.25	0.52
4:TG:171:ILE:C	4:TG:203:MET:HE3	2.34	0.52
3:TH:11:GLN:HG3	39:TH:501:GTP:PA	2.49	0.52
3:TJ:12:CYS:SG	3:TJ:13:GLY:N	2.82	0.52
4:TK:188:ILE:HG22	4:TK:421:ALA:HB1	1.91	0.52
4:TM:392:ASP:HA	4:TM:422:ARG:HH12	1.74	0.52
3:TN:73:MET:HA	3:TN:76:VAL:HG22	1.91	0.52
33:U:191:LEU:HD11	33:V:521:LYS:NZ	2.24	0.52
3:UB:19:LYS:NZ	3:UB:223:GLY:O	2.43	0.52
3:VF:99:ASN:OD1	3:VF:142:GLY:HA3	2.09	0.52
3:VF:324:LYS:HE2	4:VG:222:PRO:HD2	1.90	0.52
3:VJ:84:ILE:O	3:VJ:86:ARG:NH1	2.43	0.52
4:VK:139:HIS:CD2	4:VK:170:ALA:HB2	2.44	0.52
3:WB:286:VAL:HG21	3:WB:325:GLU:HG3	1.90	0.52
4:WC:264:ARG:O	4:WC:266:HIS:ND1	2.39	0.52
3:WF:151:LEU:HD22	3:WF:154:LYS:HZ1	1.74	0.52
4:WG:168:GLU:HB2	4:WG:201:ALA:HA	1.91	0.52
3:WH:305:PRO:HB2	3:WH:310:TYR:HE1	1.74	0.52
4:WK:260:VAL:HG23	4:WK:265:ILE:O	2.09	0.52
34:XA:174:GLU:HA	34:XA:177:LEU:HD12	1.90	0.52
35:XJ:203:GLU:OE1	35:XJ:203:GLU:N	2.42	0.52
35:XK:135:ILE:HA	35:XK:138:LYS:HZ3	1.74	0.52
37:YF:8:LEU:HD23	37:YF:11:ILE:HD12	1.89	0.52
37:YG:161:LYS:HG3	37:YG:162:VAL:HG23	1.90	0.52
37:YR:26:ILE:O	37:YR:30:GLU:N	2.39	0.52
36:Z:221:GLU:HA	36:Z:224:GLU:HG2	1.91	0.52
2:A2:303:ILE:HD11	2:A2:351:LEU:HB3	1.91	0.52
3:AB:309:ARG:N	3:AB:372:THR:OG1	2.28	0.52
3:AB:375:GLN:HA	3:AB:378:PHE:CZ	2.45	0.52
4:AE:229:ARG:NH1	4:AE:366:GLY:HA2	2.24	0.52
3:AF:197:ASP:OD1	3:AF:198:GLU:N	2.42	0.52
3:AH:2:ARG:HA	3:AH:129:CYS:O	2.10	0.52
4:AK:188:ILE:HG22	4:AK:421:ALA:HB1	1.90	0.52
4:AM:402:ARG:CZ	35:XM:234:THR:HG23	2.39	0.52
1:B:362:GLU:HA	1:B:365:LEU:HB2	1.90	0.52
5:B4:193:ASN:O	5:B4:196:SER:OG	2.26	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B6:364:ASP:O	5:B6:368:LYS:HG2	2.09	0.52
5:B8:34:ALA:O	5:B8:38:ILE:HG12	2.10	0.52
3:BB:81:PHE:O	3:BB:84:ILE:HG22	2.10	0.52
4:BC:427:ALA:HA	4:BC:430:LYS:HG2	1.91	0.52
7:C2:173:ALA:O	7:C2:177:ILE:HG12	2.09	0.52
7:C6:273:HIS:O	7:C6:275:ARG:HG2	2.09	0.52
7:C8:98:ASP:OD2	8:D4:246:LYS:NZ	2.25	0.52
7:C9:436:GLN:HA	7:C9:439:ARG:NH1	2.24	0.52
3:CB:117:LEU:HD11	3:CB:154:LYS:HD2	1.90	0.52
4:CC:265:ILE:HD12	4:CC:432:TYR:HE1	1.74	0.52
4:CE:220:GLU:O	4:CE:221:ARG:NE	2.41	0.52
3:CF:12:CYS:HA	39:CF:501:GTP:HN22	1.73	0.52
3:CF:345:ILE:HD11	4:CG:181:VAL:HG11	1.90	0.52
4:CG:51:THR:HG23	4:CG:52:PHE:CD2	2.44	0.52
4:CG:88:HIS:HB3	4:CG:91:GLN:HB2	1.91	0.52
4:CG:187:SER:O	4:CG:190:THR:OG1	2.23	0.52
4:CG:207:GLU:HB2	4:CG:304:LYS:NZ	2.24	0.52
4:CG:208:ALA:H	4:CG:304:LYS:NZ	2.04	0.52
3:CJ:174:LYS:HG3	3:CJ:175:VAL:HG12	1.90	0.52
4:CK:220:GLU:CD	4:CK:221:ARG:HG2	2.35	0.52
3:CL:266:PHE:HB3	3:CL:368:ILE:HD11	1.90	0.52
4:CM:316:CYS:O	4:CM:378:LEU:N	2.29	0.52
4:CM:413:MET:HE3	4:CM:413:MET:HA	1.90	0.52
7:Cb:299:THR:HA	7:Cb:302:LYS:HG2	1.90	0.52
7:Cd:217:LYS:O	8:D4:25:LYS:NZ	2.36	0.52
8:D2:423:LEU:O	8:D2:427:ARG:HB3	2.09	0.52
8:D3:101:ARG:HH21	13:G2:22:LYS:NZ	2.08	0.52
8:D3:165:PRO:HG2	8:D3:418:VAL:HG11	1.92	0.52
8:D4:272:ARG:HH12	8:D4:273:LEU:HD23	1.74	0.52
4:DA:256:GLN:O	4:DA:260:VAL:HG12	2.08	0.52
3:DB:12:CYS:HA	39:DB:501:GTP:HN22	1.74	0.52
3:DB:378:PHE:HA	3:DB:381:ILE:HG12	1.91	0.52
3:DD:173:PRO:O	3:DD:380:ARG:NH2	2.42	0.52
4:DE:419:SER:O	4:DE:422:ARG:HG2	2.09	0.52
3:DF:282:ARG:NH2	3:DF:292:GLN:OE1	2.28	0.52
3:DF:384:GLN:O	3:DF:388:MET:HG2	2.09	0.52
3:DH:13:GLY:HA2	3:DH:16:ILE:HB	1.91	0.52
3:DH:316:VAL:HG22	3:DH:352:ALA:HB3	1.92	0.52
4:DI:392:ASP:OD1	4:DI:393:HIS:N	2.42	0.52
3:DJ:194:GLU:OE1	3:DJ:195:ASN:ND2	2.42	0.52
3:DJ:305:PRO:HB2	3:DJ:310:TYR:HE1	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DJ:379:LYS:O	3:DJ:382:SER:OG	2.15	0.52
4:DK:273:ALA:N	4:DK:377:MET:HE1	2.23	0.52
4:EG:51:THR:HG23	4:EG:52:PHE:CD2	2.44	0.52
3:EH:176:SER:O	3:EH:178:THR:N	2.42	0.52
3:EJ:268:PRO:HD2	3:EJ:301:ALA:HB2	1.91	0.52
11:F2:135:GLN:O	11:F2:138:THR:OG1	2.22	0.52
11:F8:201:ARG:HA	11:F8:464:ILE:HD13	1.90	0.52
4:FA:216:ASN:HB2	4:FA:276:ILE:HD12	1.92	0.52
4:FA:417:GLU:OE1	4:FA:417:GLU:N	2.28	0.52
4:FC:316:CYS:N	4:FC:378:LEU:O	2.42	0.52
3:FD:295:ASP:HB2	3:FD:298:ASN:HB2	1.91	0.52
4:FE:113:GLU:OE1	4:FE:113:GLU:N	2.41	0.52
4:FE:216:ASN:OD1	4:FE:217:LEU:N	2.42	0.52
3:FF:173:PRO:O	3:FF:380:ARG:NH2	2.42	0.52
3:FF:325:GLU:O	3:FF:329:GLN:HG2	2.09	0.52
4:FG:301:GLN:OE1	4:FG:301:GLN:N	2.41	0.52
4:FG:423:GLU:HA	4:FG:426:ALA:HB3	1.92	0.52
4:FK:332:ILE:O	4:FK:336:LYS:HE2	2.09	0.52
4:FK:402:ARG:HB2	4:FK:405:VAL:HG11	1.91	0.52
3:FL:322:SER:N	3:FL:325:GLU:OE2	2.39	0.52
11:Fa:411:VAL:HA	11:Fa:414:PHE:CD2	2.45	0.52
11:Fb:145:ARG:HH21	11:Fb:148:ASP:HB2	1.75	0.52
11:Fb:428:GLN:O	11:Fb:432:LEU:HG	2.09	0.52
11:Fg:259:SER:O	11:Fg:263:ILE:HD12	2.09	0.52
11:Fh:367:GLU:HA	11:Fh:370:GLN:HG3	1.91	0.52
11:Fk:350:GLU:OE1	11:Fk:462:LEU:HB2	2.09	0.52
11:Fm:185:ASN:O	11:Fm:188:LEU:HB3	2.09	0.52
11:Fm:238:PHE:HB3	11:Fm:241:ARG:HH21	1.74	0.52
12:G:95:GLU:HA	12:G:98:ARG:HD2	1.91	0.52
13:G1:78:LYS:NZ	4:ME:31:GLN:HB3	2.25	0.52
14:G4:718:GLU:CD	14:G4:719:ASP:H	2.18	0.52
14:G6:694:PHE:HA	14:G6:697:LEU:HG	1.91	0.52
4:GA:67:PHE:O	4:GA:93:ILE:N	2.43	0.52
3:GB:326:VAL:HA	3:GB:329:GLN:NE2	2.23	0.52
3:GD:26:ASP:O	3:GD:359:ARG:NH1	2.43	0.52
4:GG:171:ILE:HD12	4:GG:204:VAL:HG13	1.90	0.52
15:H3:4:THR:OG1	15:H3:5:GLN:N	2.42	0.52
15:H4:4:THR:OG1	15:H4:5:GLN:N	2.43	0.52
15:H5:292:MET:O	15:H5:295:ASN:N	2.42	0.52
4:HA:77:GLU:HA	4:HA:80:THR:HG22	1.91	0.52
3:HB:324:LYS:HE2	4:HC:222:PRO:HG2	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HB:372:THR:HB	3:HB:375:GLN:HE22	1.74	0.52
3:HD:172:SER:OG	3:HD:205:GLU:OE2	2.21	0.52
3:HD:322:SER:N	3:HD:325:GLU:OE2	2.41	0.52
3:HD:392:LYS:HB2	3:HD:395:LEU:HD13	1.91	0.52
3:HJ:176:SER:O	3:HJ:178:THR:N	2.42	0.52
3:ID:130:LEU:HB2	3:ID:162:ARG:NH1	2.24	0.52
3:IF:2:ARG:HA	3:IF:129:CYS:O	2.09	0.52
3:IH:309:ARG:O	3:IH:371:SER:OG	2.24	0.52
4:II:214:ARG:NH1	4:II:215:ARG:HG3	2.25	0.52
4:IM:89:PRO:HD3	3:JL:281:TYR:CE2	2.44	0.52
4:JA:172:TYR:N	4:JA:204:VAL:O	2.37	0.52
3:JB:143:THR:HG22	3:JB:147:MET:HE3	1.90	0.52
4:JE:324:VAL:HG21	3:JF:219:THR:HG22	1.92	0.52
4:JG:216:ASN:ND2	4:JG:275:VAL:O	2.43	0.52
4:JG:329:ASN:OD1	4:JG:330:ALA:N	2.43	0.52
3:JH:28:HIS:ND1	3:JH:43:GLN:HB2	2.23	0.52
3:JH:139:LEU:HD21	3:JH:170:VAL:HG22	1.90	0.52
4:JI:264:ARG:O	4:JI:266:HIS:ND1	2.41	0.52
3:JJ:139:LEU:N	3:JJ:168:SER:OG	2.41	0.52
3:JL:268:PRO:HD2	3:JL:301:ALA:HB2	1.91	0.52
21:K1:403:ARG:HB3	21:K2:243:GLN:OE1	2.09	0.52
4:KC:172:TYR:HB2	4:KC:203:MET:HB2	1.91	0.52
4:KC:185:TYR:HA	4:KC:395:PHE:HE1	1.74	0.52
4:KC:388:TRP:HB3	4:KC:425:LEU:HD11	1.90	0.52
4:KG:388:TRP:HB3	4:KG:425:LEU:HD11	1.90	0.52
3:KH:100:ASN:HB3	3:KH:103:LYS:HB2	1.92	0.52
3:KH:174:LYS:HG3	3:KH:175:VAL:HG22	1.91	0.52
4:KI:224:TYR:O	4:KI:228:ASN:N	2.22	0.52
4:KI:371:VAL:HG11	4:KI:374:ALA:HB2	1.91	0.52
3:KJ:67:ASP:OD2	3:KJ:72:THR:OG1	2.24	0.52
4:KK:329:ASN:OD1	4:KK:330:ALA:N	2.42	0.52
3:KL:12:CYS:SG	3:KL:13:GLY:N	2.82	0.52
20:L:123:MET:HE3	20:L:123:MET:HA	1.90	0.52
22:L2:91:ARG:HD2	22:L2:91:ARG:O	2.08	0.52
22:L3:124:ILE:HA	22:L3:136:LEU:H	1.74	0.52
3:LD:39:ASP:OD1	3:LD:43:GLN:NE2	2.43	0.52
3:LD:218:THR:OG1	3:LD:219:THR:N	2.42	0.52
4:LE:433:GLU:O	4:LE:437:VAL:N	2.40	0.52
3:LH:187:LEU:HD21	3:LH:408:PHE:HE1	1.74	0.52
3:LH:267:MET:O	3:LH:369:GLY:N	2.33	0.52
3:LH:398:TYR:HB3	3:LH:403:MET:CB	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:LI:208:ALA:H	4:LI:304:LYS:HZ1	1.56	0.52
3:LJ:1:MET:HE1	3:LJ:48:ASN:HB2	1.91	0.52
3:MB:155:ILE:HA	3:MB:158:GLU:HB2	1.90	0.52
4:ME:392:ASP:OD1	4:ME:393:HIS:N	2.42	0.52
4:MG:1:MET:N	4:MG:130:THR:OG1	2.41	0.52
3:MH:81:PHE:O	3:MH:84:ILE:HG22	2.10	0.52
3:MH:375:GLN:HA	3:MH:378:PHE:CZ	2.43	0.52
4:MI:220:GLU:O	4:MI:221:ARG:NE	2.40	0.52
3:MJ:49:VAL:HG13	3:MJ:50:TYR:CD2	2.45	0.52
3:MJ:139:LEU:HD21	3:MJ:170:VAL:HG22	1.91	0.52
3:MJ:295:ASP:HB2	3:MJ:298:ASN:HB2	1.92	0.52
3:MJ:406:MET:O	3:MJ:409:THR:OG1	2.21	0.52
4:MM:1:MET:SD	4:MM:2:ARG:N	2.82	0.52
4:MM:184:PRO:HG2	4:MM:398:MET:HE1	1.92	0.52
4:MM:279:GLU:HA	4:MM:282:TYR:CD2	2.45	0.52
26:N2:96:GLN:O	26:N2:99:ILE:N	2.36	0.52
4:NC:16:ILE:HD11	4:NC:138:PHE:HB3	1.91	0.52
4:NE:371:VAL:HG11	4:NE:374:ALA:HB2	1.90	0.52
3:NF:19:LYS:NZ	3:NF:223:GLY:O	2.42	0.52
4:NG:245:ASP:O	4:NG:356:ASN:ND2	2.43	0.52
3:NJ:11:GLN:HE21	39:NJ:501:GTP:H3'	1.73	0.52
3:NJ:239:CYS:HA	3:NJ:246:LEU:HD11	1.92	0.52
3:NJ:328:GLU:OE1	3:NJ:332:ASN:ND2	2.42	0.52
4:NK:5:ILE:HD13	4:NK:64:ARG:HB3	1.92	0.52
3:OF:218:THR:OG1	3:OF:219:THR:N	2.43	0.52
4:OI:12:ALA:HB1	39:OI:501:GTP:C6	2.44	0.52
3:OJ:375:GLN:HA	3:OJ:378:PHE:CZ	2.44	0.52
27:P:309:TRP:O	27:P:313:ARG:NE	2.40	0.52
29:P1:18:ALA:HB1	29:P1:364:LYS:HD3	1.91	0.52
29:P2:177:ALA:HB1	29:P2:208:VAL:HG21	1.89	0.52
3:PB:288:GLU:O	3:PB:291:GLN:NE2	2.41	0.52
4:PE:319:TYR:HB2	4:PE:355:ILE:HD13	1.89	0.52
3:PF:15:GLN:NE2	39:PF:501:GTP:C2	2.72	0.52
3:PJ:235:GLY:O	3:PJ:238:THR:OG1	2.23	0.52
3:PJ:419:VAL:O	3:PJ:423:GLN:NE2	2.42	0.52
4:PK:214:ARG:NH1	4:PK:215:ARG:HG3	2.23	0.52
3:PL:15:GLN:NE2	39:PL:501:GTP:HN1	2.08	0.52
3:PL:392:LYS:HB2	3:PL:395:LEU:HD13	1.91	0.52
4:QC:287:SER:OG	4:QC:290:GLU:OE1	2.21	0.52
4:QE:79:ARG:O	4:QE:84:ARG:HG3	2.09	0.52
4:QE:229:ARG:HE	4:QE:368:LEU:HD22	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QF:176:SER:O	3:QF:178:THR:N	2.43	0.52
3:QH:139:LEU:HD21	3:QH:170:VAL:HG22	1.91	0.52
4:QI:68:VAL:HG12	4:QI:93:ILE:HB	1.91	0.52
4:QI:315:CYS:N	4:QI:350:GLY:O	2.37	0.52
3:QL:3:GLU:OE2	3:QL:127:CYS:HB2	2.10	0.52
3:QL:258:VAL:HB	4:QM:407:TRP:HZ2	1.75	0.52
4:QM:33:ASP:OD1	4:QM:34:GLY:N	2.42	0.52
27:R:150:GLU:O	27:R:154:PHE:N	2.38	0.52
27:R:322:LEU:HD22	27:R:325:ARG:NH2	2.24	0.52
3:RF:239:CYS:SG	3:RF:316:VAL:HG11	2.49	0.52
3:RH:158:GLU:HG2	3:RH:159:TYR:CD2	2.45	0.52
4:RM:1:MET:SD	4:RM:2:ARG:N	2.82	0.52
4:RM:423:GLU:HA	4:RM:426:ALA:HB3	1.91	0.52
4:SC:319:TYR:HB2	4:SC:355:ILE:HD13	1.91	0.52
3:SD:172:SER:OG	3:SD:205:GLU:OE2	2.18	0.52
3:SF:389:PHE:HZ	3:SF:405:GLU:HB2	1.74	0.52
3:SH:11:GLN:HE21	39:SH:501:GTP:H3'	1.72	0.52
3:SH:234:SER:O	3:SH:238:THR:HG23	2.09	0.52
4:SK:324:VAL:HG21	3:SL:219:THR:HG22	1.92	0.52
3:SL:347:ASN:HB3	4:SM:178:SER:HB3	1.91	0.52
4:TC:139:HIS:CD2	4:TC:170:ALA:HB2	2.44	0.52
4:TC:210:TYR:CE1	4:TC:227:LEU:HD11	2.37	0.52
4:TC:287:SER:OG	4:TC:290:GLU:OE1	2.27	0.52
4:TK:33:ASP:OD1	4:TK:34:GLY:N	2.42	0.52
4:TM:51:THR:HG23	4:TM:52:PHE:CD2	2.45	0.52
3:TN:11:GLN:HG3	39:TN:501:GTP:PA	2.48	0.52
4:UA:207:GLU:HB2	4:UA:304:LYS:NZ	2.24	0.52
3:UB:235:GLY:O	3:UB:238:THR:OG1	2.20	0.52
4:UE:324:VAL:HG11	3:UF:219:THR:HB	1.91	0.52
4:UK:145:THR:OG1	39:UK:501:GTP:O1B	2.28	0.52
4:UK:319:TYR:HB2	4:UK:355:ILE:HD13	1.90	0.52
4:VA:287:SER:OG	4:VA:290:GLU:OE1	2.25	0.52
3:VB:132:GLY:HA3	3:VB:163:ILE:H	1.74	0.52
3:VB:235:GLY:O	3:VB:238:THR:OG1	2.22	0.52
4:VE:271:THR:O	4:VE:377:MET:N	2.35	0.52
3:VF:52:ASN:OD1	3:VF:62:ARG:NH1	2.41	0.52
3:VF:117:LEU:HD11	3:VF:154:LYS:HD2	1.91	0.52
4:VG:67:PHE:HB2	4:VG:92:LEU:HD13	1.90	0.52
4:VG:319:TYR:HE2	4:VG:328:VAL:HG13	1.74	0.52
4:VI:103:TYR:HB2	4:VI:186:ASN:HB2	1.90	0.52
4:VI:214:ARG:NH1	4:VI:215:ARG:HG3	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VL:305:PRO:HB2	3:VL:310:TYR:HE1	1.75	0.52
33:W:110:GLU:OE1	33:W:110:GLU:N	2.42	0.52
4:WC:287:SER:OG	4:WC:290:GLU:OE1	2.25	0.52
3:WF:345:ILE:HD11	4:WG:181:VAL:HG11	1.91	0.52
4:WG:256:GLN:O	4:WG:260:VAL:HG12	2.08	0.52
4:WK:118:VAL:O	4:WK:122:ILE:HG12	2.10	0.52
3:WL:322:SER:OG	3:WL:323:MET:SD	2.67	0.52
34:XB:34:ILE:O	34:XB:36:ARG:NH1	2.42	0.52
34:XG:84:LYS:NZ	35:XM:241:ASN:H	2.08	0.52
35:XM:177:ILE:HG13	35:XM:178:LEU:HD12	1.90	0.52
35:XM:232:VAL:HB	35:XM:235:TYR:HB2	1.91	0.52
37:YB:26:ILE:HD12	37:YB:134:TYR:HE1	1.73	0.52
37:YL:57:CYS:O	37:YL:63:ARG:NH1	2.41	0.52
37:YL:112:SER:HA	37:YL:135:GLY:HA3	1.91	0.52
37:YS:114:ARG:NH2	37:YS:130:ALA:O	2.41	0.52
37:YV:15:TYR:O	37:YV:19:GLN:HG2	2.10	0.52
37:YV:129:GLU:O	37:YV:134:TYR:HD2	1.93	0.52
1:A:40:ASN:HB3	1:A:44:GLN:NE2	2.24	0.52
2:A2:12:LEU:HB2	2:A2:15:GLU:HG3	1.91	0.52
2:A3:361:GLN:O	2:A3:365:LEU:HG	2.10	0.52
4:AC:51:THR:HG23	4:AC:52:PHE:CD2	2.45	0.52
4:AC:88:HIS:HB3	4:AC:91:GLN:CG	2.39	0.52
3:AJ:424:GLN:OE1	35:XL:183:ILE:HD11	2.10	0.52
3:AL:3:GLU:HG2	3:AL:130:LEU:HD23	1.90	0.52
3:AL:240:LEU:HA	3:AL:248:ALA:HB1	1.90	0.52
1:B:376:LYS:HE2	3:GJ:56:GLY:HA2	1.90	0.52
5:B1:243:ILE:HG13	5:B1:244:ALA:H	1.75	0.52
5:B4:136:GLU:OE2	5:B4:257:GLN:NE2	2.43	0.52
5:B6:36:HIS:O	5:B6:40:GLN:NE2	2.36	0.52
5:B6:283:GLU:HB3	5:B6:373:ILE:HG21	1.90	0.52
5:B7:136:GLU:HA	5:B7:139:LYS:HG2	1.90	0.52
3:BB:234:SER:O	3:BB:238:THR:HG23	2.10	0.52
3:BD:52:ASN:ND2	3:BD:62:ARG:HD3	2.24	0.52
4:BI:271:THR:HB	4:BI:377:MET:HB3	1.90	0.52
3:BL:41:ASP:HB3	15:H6:10:PHE:CE2	2.45	0.52
4:BM:287:SER:N	4:BM:290:GLU:OE2	2.42	0.52
6:C:116:LEU:HA	6:C:179:ALA:HA	1.91	0.52
6:C:156:HIS:O	6:C:160:HIS:N	2.42	0.52
7:C3:370:GLN:OE1	7:C3:374:GLN:NE2	2.27	0.52
7:C4:142:SER:HB3	7:C5:419:ARG:HH12	1.73	0.52
7:C8:117:SER:O	7:C8:121:ARG:HG2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CD:118:ASP:OD1	3:CD:121:ARG:NH1	2.43	0.52
3:CD:415:MET:O	3:CD:419:VAL:HG23	2.08	0.52
4:CE:331:ALA:O	4:CE:334:THR:OG1	2.19	0.52
3:CH:309:ARG:O	3:CH:371:SER:OG	2.23	0.52
4:CI:9:VAL:CG1	4:CI:139:HIS:HB3	2.40	0.52
3:CJ:47:ILE:HA	3:CJ:241:ARG:HH12	1.75	0.52
3:CL:215:LEU:HB3	3:CL:217:LEU:HD22	1.91	0.52
4:CM:105:ARG:O	4:CM:109:THR:OG1	2.21	0.52
7:Cd:266:ARG:O	7:Cd:270:LYS:NZ	2.42	0.52
8:D2:87:GLU:HA	13:G1:7:HIS:CG	2.44	0.52
8:D2:314:SER:O	8:D2:318:LEU:HG	2.09	0.52
8:D9:174:VAL:HA	8:D9:177:LEU:HD12	1.90	0.52
4:DA:260:VAL:HG23	4:DA:265:ILE:O	2.09	0.52
4:DA:278:ALA:O	4:DA:370:LYS:NZ	2.43	0.52
3:DB:107:THR:OG1	3:DB:401:GLU:OE2	2.26	0.52
3:DB:139:LEU:HD21	3:DB:170:VAL:HG22	1.91	0.52
3:DD:139:LEU:N	3:DD:168:SER:OG	2.42	0.52
3:DF:206:ALA:O	3:DF:210:ILE:HG12	2.09	0.52
3:DH:172:SER:OG	3:DH:205:GLU:OE2	2.23	0.52
3:DH:385:PHE:HZ	3:DH:408:PHE:HB3	1.75	0.52
3:EB:12:CYS:SG	39:EB:501:GTP:H5'	2.49	0.52
3:EB:217:LEU:HB2	14:G4:401:ASP:HB3	1.91	0.52
4:EG:5:ILE:HD13	4:EG:64:ARG:HB3	1.91	0.52
4:EG:230:LEU:O	4:EG:234:ILE:HG12	2.10	0.52
3:EH:5:VAL:HG22	3:EH:62:ARG:HB3	1.91	0.52
9:F:345:LEU:HD23	4:IK:281:ALA:HB3	1.92	0.52
11:F1:301:ASN:O	11:F1:305:ARG:HG2	2.10	0.52
11:F2:248:HIS:NE2	11:F6:199:GLU:OE1	2.40	0.52
11:F5:120:SER:HB2	11:F5:124:MET:HE1	1.92	0.52
4:FA:237:SER:OG	4:FA:376:CYS:SG	2.65	0.52
3:FD:415:MET:O	3:FD:419:VAL:HG23	2.09	0.52
4:FE:14:VAL:HA	4:FE:67:PHE:HE1	1.74	0.52
4:FE:329:ASN:OD1	4:FE:330:ALA:N	2.42	0.52
4:FE:365:GLY:N	14:G5:706:ASP:OD2	2.38	0.52
3:FF:11:GLN:HG3	39:FF:501:GTP:PA	2.50	0.52
3:FH:415:MET:O	3:FH:419:VAL:HG23	2.10	0.52
4:FI:329:ASN:HA	4:FI:332:ILE:HG12	1.90	0.52
4:FK:67:PHE:O	4:FK:93:ILE:N	2.42	0.52
3:FL:58:LYS:HZ2	3:GL:281:TYR:HD1	1.57	0.52
11:Fa:415:ARG:HA	11:Fa:418:ASN:OD1	2.09	0.52
11:Fb:407:LEU:O	11:Fc:289:THR:OG1	2.27	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Fk:236:ILE:O	11:Fk:240:ILE:N	2.30	0.52
11:Fl:159:GLU:HA	11:Fl:162:ARG:HE	1.75	0.52
11:Fm:214:ASN:OD1	11:Fm:217:ARG:NH2	2.41	0.52
14:G4:62:LYS:HG2	14:G4:66:THR:HG21	1.92	0.52
14:G6:51:GLN:HG2	14:G6:53:ILE:HD11	1.91	0.52
14:G6:89:ILE:HD11	14:G6:98:ARG:HB2	1.91	0.52
3:GB:7:LEU:HD13	3:GB:64:VAL:HB	1.91	0.52
3:GB:167:PHE:HD1	3:GB:200:TYR:HD2	1.57	0.52
3:GB:269:GLY:N	3:GB:367:PHE:O	2.42	0.52
3:GB:412:GLU:HA	3:GB:415:MET:HG3	1.90	0.52
4:GC:208:ALA:H	4:GC:304:LYS:NZ	2.05	0.52
4:GE:91:GLN:HG3	4:GE:121:ARG:HH21	1.74	0.52
4:GI:5:ILE:HD13	4:GI:64:ARG:HB3	1.92	0.52
4:GI:171:ILE:HD12	4:GI:204:VAL:HG13	1.91	0.52
4:GK:1:MET:O	4:GK:133:GLN:NE2	2.39	0.52
15:H1:299:THR:HG23	15:H1:302:ASN:H	1.74	0.52
15:H6:13:GLU:CG	15:H6:14:PRO:HA	2.40	0.52
4:HA:208:ALA:H	4:HA:304:LYS:HZ1	1.55	0.52
4:HA:252:LEU:HA	4:HA:255:PHE:HD2	1.75	0.52
4:HA:260:VAL:HG23	4:HA:265:ILE:O	2.09	0.52
3:HB:269:GLY:HA3	3:HB:367:PHE:HB3	1.91	0.52
4:HC:81:GLY:O	4:HC:84:ARG:NH1	2.43	0.52
3:HD:60:VAL:HG23	3:HD:86:ARG:HH11	1.74	0.52
3:HJ:25:SER:O	3:HJ:29:GLY:N	2.42	0.52
17:I3:72:ILE:HG13	17:I3:74:SER:H	1.75	0.52
4:IA:54:SER:N	4:IA:62:VAL:O	2.42	0.52
4:IA:272:TYR:HE1	4:IA:374:ALA:HB1	1.75	0.52
3:IB:52:ASN:ND2	3:IB:62:ARG:HD3	2.23	0.52
3:IF:234:SER:O	3:IF:238:THR:HG23	2.09	0.52
3:IF:419:VAL:O	3:IF:423:GLN:NE2	2.42	0.52
3:IJ:324:LYS:HD3	4:IK:210:TYR:CE1	2.44	0.52
4:IM:318:LEU:O	4:IM:375:VAL:HA	2.09	0.52
4:JA:206:ASN:HA	4:JA:209:ILE:HD12	1.91	0.52
3:JB:11:GLN:HE21	39:JB:501:GTP:H3'	1.73	0.52
3:JB:139:LEU:HD21	3:JB:170:VAL:HG22	1.91	0.52
4:JC:88:HIS:CE1	4:JC:121:ARG:HH22	2.27	0.52
4:JC:283:HIS:ND1	4:JC:284:GLU:OE1	2.43	0.52
3:JD:46:ARG:HH12	4:JE:73:THR:HG23	1.74	0.52
3:JD:111:GLU:HG2	3:JD:112:LEU:HD12	1.92	0.52
3:JD:166:THR:OG1	3:JD:198:GLU:O	2.23	0.52
3:JD:206:ALA:O	3:JD:210:ILE:HG12	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JH:130:LEU:HD13	3:JH:133:PHE:HE1	1.73	0.52
3:JL:111:GLU:HG2	3:JL:112:LEU:HD12	1.91	0.52
3:JL:304:ASP:O	3:JL:307:HIS:ND1	2.39	0.52
21:K2:165:LEU:O	21:K2:169:ARG:HG3	2.09	0.52
21:K3:244:ALA:O	21:K3:245:VAL:HB	2.08	0.52
21:K5:44:VAL:HG22	21:K5:45:THR:H	1.74	0.52
3:KB:47:ILE:HG21	3:KB:59:TYR:CZ	2.44	0.52
3:KB:211:CYS:HA	3:KB:215:LEU:HB2	1.92	0.52
4:KC:88:HIS:CE1	4:LC:280:LYS:HZ1	2.27	0.52
4:KC:324:VAL:HG11	3:KD:219:THR:HB	1.91	0.52
4:KE:148:GLY:O	4:KE:151:SER:OG	2.26	0.52
4:KG:272:TYR:CZ	4:KG:274:PRO:HG2	2.45	0.52
4:KI:5:ILE:HD13	4:KI:64:ARG:HB3	1.91	0.52
4:KI:272:TYR:HE1	4:KI:374:ALA:HB1	1.74	0.52
4:KK:88:HIS:HB3	4:KK:91:GLN:CG	2.40	0.52
22:L2:63:LEU:HD13	22:L2:67:SER:H	1.75	0.52
3:LB:426:GLN:NE2	3:LB:427:ASP:OD1	2.42	0.52
4:LC:318:LEU:O	4:LC:375:VAL:HA	2.09	0.52
3:LD:5:VAL:HG23	3:LD:130:LEU:HD21	1.92	0.52
4:LK:213:CYS:O	4:LK:218:ASP:N	2.43	0.52
24:M3:63:ASN:H	24:M3:67:ARG:NH2	2.08	0.52
3:MD:286:VAL:HG21	3:MD:325:GLU:HG3	1.91	0.52
4:MG:53:PHE:HB3	4:MG:61:HIS:HB3	1.91	0.52
3:MH:28:HIS:O	3:MH:43:GLN:NE2	2.42	0.52
3:MH:415:MET:O	3:MH:419:VAL:HG23	2.09	0.52
3:ML:337:ASN:OD1	3:ML:340:TYR:HB2	2.10	0.52
4:MM:200:CYS:HA	4:MM:266:HIS:HB2	1.92	0.52
4:NA:105:ARG:O	4:NA:109:THR:OG1	2.24	0.52
4:NA:392:ASP:OD1	4:NA:393:HIS:N	2.42	0.52
3:NF:3:GLU:OE2	3:NF:129:CYS:N	2.43	0.52
3:NF:323:MET:N	3:NF:323:MET:SD	2.82	0.52
4:NG:68:VAL:HG12	4:NG:93:ILE:HB	1.92	0.52
4:NG:154:MET:HA	4:NG:157:LEU:HG	1.91	0.52
4:NG:415:GLU:OE1	4:NG:419:SER:OG	2.24	0.52
3:NH:172:SER:OG	3:NH:205:GLU:OE2	2.20	0.52
3:NJ:305:PRO:HB2	3:NJ:310:TYR:HE1	1.73	0.52
3:NJ:316:VAL:HG22	3:NJ:352:ALA:HB3	1.91	0.52
4:NK:192:HIS:HA	4:NK:195:LEU:HD23	1.90	0.52
3:OD:292:GLN:O	3:OD:298:ASN:ND2	2.40	0.52
4:OE:260:VAL:O	3:OF:397:TRP:HH2	1.92	0.52
3:OL:12:CYS:SG	3:OL:13:GLY:N	2.83	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:OL:267:MET:O	3:OL:369:GLY:N	2.35	0.52
29:P1:127:VAL:HG22	29:P1:139:VAL:HG22	1.92	0.52
29:P1:407:ARG:NH1	29:P1:409:MET:HG2	2.24	0.52
29:P1:572:TRP:NE1	29:P1:579:VAL:HG22	2.25	0.52
29:P2:191:ASN:C	29:P2:192:ARG:HD3	2.35	0.52
29:P2:393:TRP:HE1	29:P2:399:ARG:HB2	1.74	0.52
29:P3:316:ARG:O	29:P3:325:THR:OG1	2.23	0.52
4:PA:32:PRO:O	4:PA:85:GLN:NE2	2.42	0.52
4:PC:245:ASP:O	4:PC:356:ASN:ND2	2.42	0.52
3:PD:344:TRP:O	4:PE:401:LYS:NZ	2.30	0.52
3:PF:32:PRO:O	3:PF:83:GLN:NE2	2.36	0.52
3:PL:14:ASN:ND2	3:PL:67:ASP:OD2	2.42	0.52
3:PL:394:PHE:HA	3:PL:397:TRP:HZ3	1.75	0.52
30:Q1:1421:GLN:CD	30:Q1:1506:SER:HB3	2.35	0.52
30:Q1:1446:LYS:HD3	30:Q1:1483:ILE:HA	1.91	0.52
3:QB:375:GLN:HA	3:QB:378:PHE:CZ	2.43	0.52
4:QG:5:ILE:HD13	4:QG:64:ARG:HB3	1.90	0.52
4:QI:105:ARG:O	4:QI:109:THR:OG1	2.26	0.52
4:QI:287:SER:OG	4:QI:290:GLU:OE1	2.21	0.52
4:QK:171:ILE:HD12	4:QK:204:VAL:HG13	1.91	0.52
3:RB:107:THR:OG1	3:RB:401:GLU:OE2	2.24	0.52
4:RC:172:TYR:HD1	4:RC:203:MET:HG2	1.74	0.52
3:RF:172:SER:HB3	3:RF:175:VAL:O	2.10	0.52
3:RH:261:PRO:HD3	4:RI:406:HIS:CG	2.44	0.52
4:RM:12:ALA:HB2	39:RM:501:GTP:H5"	1.91	0.52
4:RM:264:ARG:HH12	4:RM:432:TYR:HE1	1.58	0.52
4:SG:206:ASN:HA	4:SG:209:ILE:HD12	1.90	0.52
4:SK:207:GLU:HB2	4:SK:304:LYS:NZ	2.24	0.52
3:TB:406:MET:HE3	3:TB:406:MET:HA	1.92	0.52
4:TE:1:MET:O	4:TE:131:GLY:HA3	2.08	0.52
3:TF:139:LEU:HD21	3:TF:170:VAL:HG22	1.92	0.52
4:TI:245:ASP:O	4:TI:356:ASN:ND2	2.43	0.52
4:TK:265:ILE:HD12	4:TK:432:TYR:CE1	2.45	0.52
3:TL:249:ASP:O	3:TL:252:LYS:HB2	2.09	0.52
4:TM:216:ASN:HD21	4:TM:275:VAL:HG23	1.74	0.52
3:TN:33:THR:O	3:TN:58:LYS:NZ	2.37	0.52
33:U:479:ARG:HA	33:U:482:VAL:HB	1.91	0.52
3:UB:252:LYS:O	3:UB:256:ASN:ND2	2.43	0.52
3:UD:217:LEU:HD11	3:UD:220:PRO:HB3	1.92	0.52
4:UE:173:PRO:HB2	4:UE:390:ARG:HH22	1.73	0.52
4:UG:319:TYR:HB2	4:UG:355:ILE:HD13	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UI:145:THR:HG23	39:UI:501:GTP:O3B	2.09	0.52
33:V:482:VAL:O	33:V:486:GLN:NE2	2.43	0.52
3:VB:239:CYS:SG	3:VB:248:ALA:HA	2.49	0.52
3:VD:52:ASN:OD1	3:VD:62:ARG:NH1	2.42	0.52
3:VD:152:ILE:HD12	3:VD:195:ASN:HB2	1.90	0.52
3:VD:350:LYS:HE3	4:VE:181:VAL:H	1.74	0.52
3:VF:15:GLN:NE2	39:VF:501:GTP:C2	2.73	0.52
3:VJ:13:GLY:HA2	3:VJ:16:ILE:HB	1.91	0.52
3:VL:394:PHE:HA	3:VL:397:TRP:HZ3	1.75	0.52
3:VL:406:MET:O	3:VL:409:THR:OG1	2.23	0.52
33:W:247:GLU:HB3	33:W:251:ARG:HH21	1.74	0.52
33:W:321:GLU:O	33:W:324:ARG:NH1	2.42	0.52
3:WD:7:LEU:HB2	3:WD:135:LEU:HG	1.91	0.52
4:WE:122:ILE:O	4:WE:126:ALA:N	2.40	0.52
4:WE:154:MET:HE3	4:WE:194:THR:HG22	1.90	0.52
4:WG:107:HIS:CD2	4:WG:152:LEU:HB2	2.45	0.52
3:WH:3:GLU:HG2	3:WH:130:LEU:HD23	1.92	0.52
3:WJ:139:LEU:HD21	3:WJ:170:VAL:HG22	1.92	0.52
4:WK:392:ASP:OD1	4:WK:393:HIS:N	2.42	0.52
34:XA:3:LYS:HE2	34:XA:72:LYS:HG2	1.92	0.52
34:XB:83:LEU:HD11	34:XB:161:ARG:HB2	1.91	0.52
34:XC:69:LEU:HD11	34:XC:154:VAL:HG12	1.91	0.52
34:XE:61:CYS:SG	34:XE:154:VAL:HB	2.50	0.52
35:XJ:69:LEU:HG	35:XJ:71:HIS:HD1	1.75	0.52
35:XK:108:GLU:HA	35:XK:111:ALA:HB3	1.92	0.52
37:YO:57:CYS:O	37:YO:63:ARG:NH1	2.30	0.52
37:YP:90:THR:O	37:YP:94:ASN:N	2.27	0.52
37:YR:88:SER:O	37:YR:94:ASN:ND2	2.40	0.52
37:YW:7:SER:O	37:YW:10:SER:OG	2.26	0.52
37:YW:145:LEU:O	37:YW:148:MET:HG2	2.10	0.52
1:A:294:LYS:O	1:A:298:ARG:NE	2.40	0.52
2:A2:133:GLU:O	2:A2:137:GLN:HG2	2.09	0.52
3:AB:304:ASP:O	3:AB:307:HIS:ND1	2.35	0.52
4:AC:11:GLN:OE1	4:AC:11:GLN:N	2.35	0.52
4:AC:54:SER:N	4:AC:62:VAL:O	2.42	0.52
4:AC:166:LYS:N	4:AC:199:ASP:OD2	2.41	0.52
4:AC:271:THR:HA	4:AC:302:MET:HE1	1.90	0.52
3:AF:218:THR:OG1	3:AF:219:THR:N	2.41	0.52
3:AF:415:MET:O	3:AF:419:VAL:HG23	2.09	0.52
3:AH:87:PRO:HA	3:AH:90:PHE:CD2	2.44	0.52
3:AJ:19:LYS:NZ	3:AJ:223:GLY:O	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AK:287:SER:N	4:AK:290:GLU:OE2	2.42	0.52
5:B1:258:ARG:O	5:B1:262:GLU:HG2	2.09	0.52
5:B2:293:LEU:HD22	5:B2:363:LEU:HD13	1.91	0.52
5:B3:303:ASP:HB3	5:B3:307:LYS:NZ	2.24	0.52
5:B5:46:ARG:HH22	5:B6:300:LEU:HB2	1.73	0.52
5:B7:160:GLN:HE21	8:D8:436:ARG:NH2	2.06	0.52
5:B8:338:LEU:O	5:B8:342:VAL:HG23	2.10	0.52
3:BB:53:GLU:HG3	15:H1:28:ARG:HH21	1.75	0.52
3:BB:139:LEU:N	3:BB:168:SER:OG	2.42	0.52
4:BC:10:GLY:O	4:BC:14:VAL:HG13	2.09	0.52
4:BE:89:PRO:HB2	4:BE:90:GLU:OE1	2.08	0.52
4:BG:51:THR:HG23	4:BG:52:PHE:CD2	2.44	0.52
3:BH:121:ARG:HA	3:BH:124:ALA:HB3	1.91	0.52
3:BJ:117:LEU:HD11	3:BJ:154:LYS:CD	2.40	0.52
3:BL:267:MET:HE1	3:BL:299:MET:SD	2.49	0.52
7:C2:105:VAL:O	7:C2:108:GLN:NE2	2.42	0.52
7:C2:120:LEU:HD12	7:C3:444:THR:HG21	1.91	0.52
7:C3:167:MET:HE1	7:C3:251:GLN:HG2	1.90	0.52
7:C8:457:HIS:CE1	7:Cb:405:ARG:HE	2.28	0.52
4:CI:144:GLY:N	39:CI:501:GTP:O2B	2.39	0.52
4:CI:192:HIS:HA	4:CI:195:LEU:HD23	1.91	0.52
4:CK:208:ALA:H	4:CK:304:LYS:HZ1	1.56	0.52
4:CM:405:VAL:O	4:CM:409:VAL:HG22	2.09	0.52
7:Ca:337:TRP:CH2	11:Fe:352:ASP:HB2	2.45	0.52
8:D2:267:ARG:HA	8:D2:270:ARG:NE	2.22	0.52
8:D6:344:LYS:O	8:D6:347:GLU:HG3	2.09	0.52
8:D8:291:GLU:O	8:D8:295:LEU:HG	2.10	0.52
8:D8:363:ARG:NH2	8:D8:369:CYS:H	1.94	0.52
3:DB:12:CYS:HA	39:DB:501:GTP:N2	2.25	0.52
4:DI:47:ASP:HB3	4:DI:49:PHE:CE2	2.44	0.52
4:DI:70:LEU:HA	4:DI:95:GLY:HA3	1.91	0.52
3:DL:159:TYR:HB3	3:DL:162:ARG:HG2	1.91	0.52
9:E:438:ASP:OD1	9:E:439:LEU:N	2.41	0.52
4:EA:34:GLY:HA2	4:EA:86:LEU:HD21	1.90	0.52
3:ED:315:ALA:HB2	3:ED:367:PHE:HD1	1.74	0.52
4:EE:144:GLY:N	39:EE:501:GTP:O2B	2.41	0.52
4:EE:352:LYS:NZ	3:EF:178:THR:OG1	2.42	0.52
4:EE:392:ASP:OD1	4:EE:393:HIS:N	2.43	0.52
4:EI:103:TYR:HB2	4:EI:186:ASN:HB2	1.92	0.52
3:EJ:234:SER:O	3:EJ:238:THR:HG23	2.09	0.52
3:EJ:412:GLU:O	3:EJ:416:ASN:N	2.30	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:F2:174:LYS:NZ	11:F2:237:ASP:OD1	2.26	0.52
11:F3:175:ARG:O	11:F3:178:GLU:HG3	2.09	0.52
11:F3:390:LYS:HD3	11:F3:393:GLN:HE21	1.74	0.52
11:F6:104:ARG:NH2	11:Fj:292:ILE:HG13	2.25	0.52
11:F9:335:GLN:HA	11:F9:338:ASN:ND2	2.25	0.52
4:FA:207:GLU:HB2	4:FA:304:LYS:NZ	2.25	0.52
4:FA:316:CYS:HB3	4:FA:378:LEU:HB3	1.90	0.52
3:FD:198:GLU:HA	3:FD:266:PHE:CE2	2.44	0.52
3:FD:268:PRO:HD2	3:FD:301:ALA:HB2	1.91	0.52
4:FE:371:VAL:HG11	4:FE:374:ALA:HB2	1.92	0.52
3:FF:281:TYR:O	3:FF:282:ARG:NE	2.41	0.52
3:FF:379:LYS:O	3:FF:382:SER:OG	2.17	0.52
4:FG:76:ASP:OD1	4:FG:79:ARG:NH1	2.42	0.52
4:FG:316:CYS:O	4:FG:378:LEU:N	2.36	0.52
4:FG:319:TYR:HB2	4:FG:355:ILE:HD13	1.92	0.52
11:Fa:110:ARG:HD2	11:Fa:111:LEU:HD22	1.91	0.52
11:Fc:294:GLU:HG2	11:Fc:295:THR:H	1.75	0.52
11:Fc:343:PHE:CE2	11:Fc:347:ILE:HD11	2.45	0.52
11:Fj:193:GLU:O	11:Fj:197:ASN:ND2	2.42	0.52
11:Fm:118:GLY:HA2	11:Fm:121:LEU:HD12	1.92	0.52
12:G:169:ALA:HA	12:G:172:HIS:CE1	2.43	0.52
13:G2:272:THR:HG22	13:G2:296:ARG:HG2	1.92	0.52
14:G6:30:ASN:ND2	14:G6:31:ASN:H	2.08	0.52
14:G6:262:ILE:HB	14:G6:279:LEU:HB2	1.91	0.52
14:G6:436:TYR:CE1	14:G6:529:THR:HG21	2.45	0.52
14:G6:488:LYS:HZ2	14:G6:501:TYR:C	2.18	0.52
14:G6:544:ASN:HB3	14:G6:547:LEU:HG	1.90	0.52
3:GB:290:THR:HA	3:GB:293:MET:HB3	1.90	0.52
3:GD:156:ARG:NH1	3:GD:195:ASN:O	2.42	0.52
3:GD:285:THR:O	3:GD:288:GLU:HG3	2.09	0.52
3:GD:386:THR:O	3:GD:390:ARG:HB2	2.10	0.52
4:GE:207:GLU:HB2	4:GE:304:LYS:NZ	2.25	0.52
3:GF:12:CYS:SG	39:GF:501:GTP:H5'	2.50	0.52
4:GG:81:GLY:O	4:GG:84:ARG:NH1	2.42	0.52
3:GJ:289:LEU:O	3:GJ:293:MET:N	2.37	0.52
4:GK:70:LEU:HD13	4:GK:95:GLY:HA3	1.92	0.52
15:H4:24:TYR:N	15:H4:27:LEU:HD23	2.25	0.52
4:HC:288:VAL:HG21	4:HC:328:VAL:HA	1.91	0.52
3:HD:309:ARG:H	3:HD:372:THR:HG1	1.52	0.52
4:HE:1:MET:N	4:HE:130:THR:OG1	2.42	0.52
4:HG:262:TYR:OH	3:HH:391:ARG:O	2.27	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HI:101:ASN:HA	4:HI:144:GLY:HA2	1.92	0.52
4:HI:214:ARG:NH1	4:HI:215:ARG:HG3	2.24	0.52
4:IA:326:LYS:NZ	3:IB:208:TYR:O	2.43	0.52
4:IA:331:ALA:O	4:IA:334:THR:OG1	2.25	0.52
4:II:396:ASP:OD1	4:II:397:LEU:N	2.43	0.52
4:IK:205:ASP:OD2	4:IK:304:LYS:NZ	2.36	0.52
3:IL:143:THR:HG22	3:IL:147:MET:HG2	1.91	0.52
18:J:82:LYS:NZ	3:JH:26:ASP:OD2	2.37	0.52
19:J2:171:PRO:HD3	19:J2:187:GLU:OE1	2.09	0.52
4:JG:331:ALA:O	4:JG:334:THR:OG1	2.25	0.52
3:JH:52:ASN:OD1	3:JH:62:ARG:NH1	2.42	0.52
3:JH:324:LYS:HD2	4:JI:221:ARG:HA	1.90	0.52
3:JJ:3:GLU:OE2	3:JJ:129:CYS:N	2.43	0.52
3:JJ:111:GLU:HG2	3:JJ:112:LEU:HD12	1.91	0.52
4:JK:185:TYR:HA	4:JK:395:PHE:HE1	1.74	0.52
21:K2:209:MET:O	21:K2:213:MET:HE3	2.10	0.52
21:K2:462:ARG:HH22	3:KD:106:TYR:HB3	1.75	0.52
4:KA:208:ALA:N	4:KA:304:LYS:HZ1	2.07	0.52
4:KA:274:PRO:HG3	4:KA:374:ALA:HA	1.92	0.52
3:KB:32:PRO:O	3:KB:83:GLN:NE2	2.34	0.52
3:KD:176:SER:O	3:KD:178:THR:N	2.43	0.52
3:KD:269:GLY:HA2	3:KD:300:MET:HE1	1.91	0.52
3:KD:285:THR:O	3:KD:288:GLU:HG3	2.09	0.52
3:KD:379:LYS:O	3:KD:382:SER:OG	2.17	0.52
3:KF:412:GLU:OE1	3:KF:416:ASN:ND2	2.37	0.52
4:KI:320:ARG:HG2	4:KI:358:GLN:O	2.09	0.52
4:KK:256:GLN:O	4:KK:260:VAL:HG12	2.09	0.52
3:KL:305:PRO:HB2	3:KL:310:TYR:HE1	1.73	0.52
22:L1:170:GLU:O	22:L1:174:ASN:N	2.39	0.52
22:L1:227:LYS:HD3	22:L1:230:LEU:HD12	1.90	0.52
22:L2:31:PHE:CZ	4:ME:386:GLU:HA	2.44	0.52
3:LB:234:SER:O	3:LB:238:THR:HG23	2.09	0.52
4:LC:9:VAL:HG22	4:LC:146:GLY:HA2	1.90	0.52
4:LE:214:ARG:NH1	4:LE:215:ARG:HG3	2.23	0.52
3:LH:111:GLU:OE1	3:LH:111:GLU:N	2.43	0.52
4:LI:287:SER:N	4:LI:290:GLU:OE2	2.43	0.52
3:LL:392:LYS:HD2	3:LL:392:LYS:O	2.10	0.52
4:MC:122:ILE:O	4:MC:126:ALA:N	2.41	0.52
3:MD:7:LEU:HB2	3:MD:135:LEU:HD23	1.91	0.52
3:MD:222:TYR:HA	3:MD:225:LEU:HD13	1.92	0.52
3:MF:282:ARG:NH2	3:MF:292:GLN:OE1	2.28	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MJ:56:GLY:O	3:MJ:58:LYS:NZ	2.41	0.52
3:ML:52:ASN:CG	3:ML:62:ARG:HD3	2.34	0.52
4:MM:70:LEU:HA	4:MM:95:GLY:HA3	1.91	0.52
4:MM:363:VAL:HG13	4:MM:366:GLY:HA3	1.92	0.52
4:NC:213:CYS:HA	4:NC:217:LEU:HB2	1.90	0.52
3:NF:77:ARG:HD3	3:NF:90:PHE:HE2	1.74	0.52
3:NH:258:VAL:HB	4:NI:407:TRP:HZ2	1.75	0.52
3:NJ:218:THR:OG1	3:NJ:219:THR:N	2.43	0.52
3:NJ:300:MET:N	3:NJ:300:MET:SD	2.82	0.52
3:OB:285:THR:O	3:OB:288:GLU:HG3	2.09	0.52
4:OE:236:SER:O	4:OE:243:ARG:NH2	2.34	0.52
3:OF:150:LEU:HB3	3:OF:154:LYS:HZ1	1.74	0.52
4:OI:394:LYS:O	4:OI:398:MET:HG2	2.10	0.52
3:OL:305:PRO:HB2	3:OL:310:TYR:HE1	1.74	0.52
27:P:157:GLU:HA	27:P:160:ARG:HB2	1.90	0.52
29:P2:161:ALA:HA	29:P2:178:GLY:HA3	1.90	0.52
3:PH:295:ASP:HB2	3:PH:298:ASN:HB2	1.92	0.52
3:PJ:176:SER:O	3:PJ:178:THR:N	2.42	0.52
4:PK:160:ASP:OD1	4:PK:161:TYR:N	2.43	0.52
4:PM:46:ASP:OD1	4:PM:50:ASN:ND2	2.41	0.52
30:Q2:1356:GLY:HA2	30:Q2:1393:LYS:HG3	1.91	0.52
30:Q3:1457:SER:O	30:Q3:1460:THR:OG1	2.21	0.52
3:QB:350:LYS:HE3	4:QC:181:VAL:H	1.73	0.52
3:QD:235:GLY:O	3:QD:238:THR:OG1	2.24	0.52
3:QH:131:GLN:O	3:QH:251:ARG:NH2	2.42	0.52
4:QI:208:ALA:HB3	4:QI:302:MET:HA	1.91	0.52
3:RB:15:GLN:NE2	39:RB:501:GTP:C2	2.66	0.52
3:RB:285:THR:O	3:RB:288:GLU:HG3	2.10	0.52
3:RB:375:GLN:HA	3:RB:378:PHE:CZ	2.44	0.52
4:RI:67:PHE:HB2	4:RI:92:LEU:HD13	1.91	0.52
4:RI:188:ILE:HG13	4:RI:421:ALA:HB1	1.91	0.52
3:RJ:357:PRO:O	3:RJ:359:ARG:NH1	2.40	0.52
3:RL:223:GLY:O	3:RL:227:HIS:N	2.40	0.52
3:RL:378:PHE:CD1	3:RL:419:VAL:HG22	2.45	0.52
4:SC:316:CYS:N	4:SC:378:LEU:O	2.42	0.52
3:SF:214:THR:HG21	3:SF:273:LEU:HB3	1.92	0.52
3:SF:217:LEU:HD11	3:SF:220:PRO:HB3	1.91	0.52
3:SJ:295:ASP:HB2	3:SJ:298:ASN:HB2	1.92	0.52
3:SL:12:CYS:SG	3:SL:13:GLY:N	2.83	0.52
4:SM:179:THR:OG1	4:SM:183:GLU:OE2	2.28	0.52
3:TD:322:SER:N	3:TD:325:GLU:OE2	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TF:218:THR:OG1	3:TF:219:THR:N	2.42	0.52
3:TF:375:GLN:HA	3:TF:378:PHE:CZ	2.44	0.52
4:TG:264:ARG:O	4:TG:266:HIS:ND1	2.42	0.52
3:TH:3:GLU:O	3:TH:130:LEU:HD12	2.09	0.52
3:TH:70:PRO:HA	3:TH:73:MET:HE3	1.91	0.52
4:TI:50:ASN:O	4:TI:64:ARG:NH1	2.42	0.52
3:TJ:11:GLN:HE21	39:TJ:501:GTP:H3'	1.75	0.52
3:TJ:375:GLN:HA	3:TJ:378:PHE:CZ	2.44	0.52
4:TK:152:LEU:HG	4:TK:156:ARG:NH2	2.23	0.52
3:TN:250:LEU:O	3:TN:254:ALA:N	2.34	0.52
3:TN:415:MET:O	3:TN:419:VAL:HG23	2.09	0.52
33:U:245:ASP:HA	33:U:248:ARG:HG2	1.90	0.52
3:UB:11:GLN:O	3:UB:15:GLN:HG3	2.10	0.52
4:UC:51:THR:HG23	4:UC:52:PHE:CD2	2.45	0.52
4:UC:88:HIS:CE1	4:UC:121:ARG:HH22	2.28	0.52
4:UC:295:CYS:HB2	4:UC:377:MET:HE3	1.90	0.52
3:UF:12:CYS:SG	3:UF:13:GLY:N	2.82	0.52
4:UG:109:THR:O	4:UG:112:LYS:NZ	2.42	0.52
3:UH:11:GLN:HG3	39:UH:501:GTP:PA	2.48	0.52
3:UH:322:SER:N	3:UH:325:GLU:OE2	2.43	0.52
3:UJ:174:LYS:HG3	3:UJ:175:VAL:HG12	1.92	0.52
3:UJ:269:GLY:N	3:UJ:367:PHE:O	2.42	0.52
3:UL:84:ILE:O	3:UL:86:ARG:NH1	2.42	0.52
4:VC:88:HIS:CE1	4:VC:121:ARG:HH22	2.28	0.52
4:VE:85:GLN:HG2	4:VE:86:LEU:HD12	1.92	0.52
4:VE:400:ALA:O	4:VE:402:ARG:NH1	2.43	0.52
3:VF:103:LYS:HE3	3:VF:108:GLU:HG2	1.91	0.52
3:VF:140:GLY:HA2	3:VF:181:GLU:OE2	2.09	0.52
4:VG:285:GLN:HE22	4:VG:287:SER:HB3	1.75	0.52
3:VH:60:VAL:HG23	3:VH:86:ARG:HH11	1.74	0.52
3:VH:378:PHE:CD1	3:VH:419:VAL:HG22	2.43	0.52
4:VK:141:PHE:HE2	4:VK:203:MET:SD	2.32	0.52
33:W:212:LEU:O	33:W:215:GLN:NE2	2.42	0.52
4:WA:260:VAL:HG23	4:WA:265:ILE:O	2.10	0.52
4:WA:404:PHE:HB3	4:WA:407:TRP:HD1	1.75	0.52
3:WB:290:THR:HG21	3:WB:329:GLN:HB3	1.90	0.52
34:XB:2:PHE:O	34:XB:5:THR:OG1	2.24	0.52
34:XC:98:ASN:O	34:XC:100:ARG:NH1	2.42	0.52
34:XG:78:MET:HE3	34:XG:132:ILE:HG13	1.91	0.52
34:XG:164:ARG:NH2	34:XG:181:PHE:HA	2.24	0.52
35:XH:176:GLN:OE1	35:XH:176:GLN:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:XI:66:PRO:HA	35:XI:81:LYS:HE3	1.91	0.52
35:XJ:88:ASP:OD1	35:XJ:91:HIS:N	2.34	0.52
35:XK:145:ASN:O	35:XK:149:ILE:HG12	2.08	0.52
35:XM:182:ASN:ND2	35:XM:231:MET:O	2.42	0.52
37:YD:22:GLN:O	37:YD:26:ILE:HG12	2.10	0.52
37:YF:90:THR:O	37:YF:94:ASN:N	2.27	0.52
37:YM:112:SER:HA	37:YM:135:GLY:HA3	1.91	0.52
37:YV:80:CYS:HA	37:YV:83:PHE:HD1	1.73	0.52
36:Z:333:GLU:O	36:Z:337:THR:N	2.39	0.52
2:A2:162:ARG:HH12	13:G1:199:ILE:HA	1.74	0.52
2:A3:47:GLU:OE1	5:B3:36:HIS:NE2	2.43	0.52
2:A3:222:ASN:O	2:A3:226:GLU:HG2	2.10	0.52
2:A3:335:TYR:O	2:A3:339:LYS:HG3	2.10	0.52
2:A3:356:ALA:O	2:A3:359:GLN:HG3	2.09	0.52
3:AF:114:ASP:OD1	3:AF:115:SER:N	2.42	0.52
3:AH:314:ALA:HB3	3:AH:368:ILE:HG23	1.92	0.52
4:AI:88:HIS:HA	4:BI:283:HIS:HE1	1.75	0.52
3:AJ:347:ASN:O	3:AJ:350:LYS:NZ	2.43	0.52
4:AK:76:ASP:OD1	4:AK:79:ARG:NH1	2.42	0.52
4:AM:2:ARG:HA	4:AM:133:GLN:HE22	1.75	0.52
4:AM:67:PHE:HB2	4:AM:92:LEU:HD13	1.91	0.52
4:AM:201:ALA:HB3	4:AM:267:PHE:HD1	1.74	0.52
5:B1:259:VAL:HG12	5:B1:263:PHE:CE2	2.44	0.52
5:B1:283:GLU:HB3	5:B1:373:ILE:HG21	1.92	0.52
5:B7:46:ARG:HH11	5:B8:299:ARG:NE	2.08	0.52
5:B8:39:ARG:HB3	5:B8:40:GLN:NE2	2.25	0.52
3:BB:7:LEU:HD13	3:BB:64:VAL:HB	1.92	0.52
4:BC:9:VAL:HA	4:BC:68:VAL:HG23	1.92	0.52
4:BC:320:ARG:HG2	4:BC:358:GLN:O	2.10	0.52
3:BD:120:VAL:O	3:BD:124:ALA:N	2.39	0.52
4:BE:375:VAL:HG13	4:BE:377:MET:SD	2.50	0.52
3:BJ:279:GLN:HA	13:G2:109:ILE:HD11	1.91	0.52
7:C2:123:ASP:HB2	7:C3:437:ARG:HH22	1.74	0.52
7:C3:124:THR:O	7:C3:128:ILE:HG12	2.10	0.52
7:C4:391:ALA:O	7:C4:394:LYS:HB3	2.09	0.52
7:C4:435:GLN:HB3	7:C4:439:ARG:NH1	2.24	0.52
7:C4:474:MET:HA	7:C4:477:ARG:CZ	2.40	0.52
7:C6:116:ASN:OD1	7:C6:119:ARG:NH2	2.43	0.52
4:CM:167:LEU:HD13	4:CM:200:CYS:HB2	1.92	0.52
8:D4:25:LYS:O	8:D4:29:VAL:HG23	2.09	0.52
8:D5:314:SER:O	8:D5:318:LEU:HG	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:D7:424:PHE:O	8:D7:428:GLN:HG2	2.10	0.52
4:DA:213:CYS:O	4:DA:218:ASP:N	2.43	0.52
3:DB:2:ARG:HA	3:DB:129:CYS:O	2.10	0.52
3:DB:178:THR:HB	3:DB:181:GLU:HB2	1.92	0.52
4:DC:319:TYR:HE2	4:DC:328:VAL:HG13	1.75	0.52
4:DE:68:VAL:HG12	4:DE:93:ILE:HB	1.91	0.52
4:DI:148:GLY:O	4:DI:151:SER:OG	2.28	0.52
4:DK:287:SER:N	4:DK:290:GLU:OE2	2.42	0.52
10:E3:111:GLN:NE2	10:E3:118:PHE:HB3	2.23	0.52
4:EA:216:ASN:ND2	4:EA:275:VAL:O	2.43	0.52
3:EB:3:GLU:OE2	3:EB:129:CYS:N	2.42	0.52
4:EE:88:HIS:CE1	4:EE:121:ARG:HH22	2.28	0.52
3:EF:91:VAL:HG11	3:EF:116:VAL:HG12	1.91	0.52
4:EK:167:LEU:HD13	4:EK:200:CYS:HB2	1.92	0.52
4:EK:360:PRO:HG2	4:EK:374:ALA:HB3	1.91	0.52
3:EL:194:GLU:OE1	3:EL:195:ASN:ND2	2.42	0.52
9:F:286:LYS:HB3	4:HI:57:GLY:H	1.73	0.52
9:F:370:LYS:O	9:F:373:LYS:HG2	2.09	0.52
9:F:408:THR:HA	9:F:411:ILE:HG12	1.92	0.52
11:F3:464:ILE:HA	11:F3:468:LYS:HE2	1.90	0.52
11:F4:89:ARG:H	11:F4:89:ARG:CD	2.21	0.52
11:F7:156:LEU:HD11	11:F7:250:LEU:HD22	1.91	0.52
11:F7:450:ARG:O	11:F7:453:HIS:ND1	2.42	0.52
4:FC:25:CYS:O	4:FC:30:ILE:N	2.40	0.52
4:FC:113:GLU:OE1	4:FC:113:GLU:N	2.42	0.52
4:FC:116:ASP:N	4:FC:116:ASP:OD1	2.43	0.52
4:FC:185:TYR:HA	4:FC:395:PHE:HE1	1.75	0.52
4:FC:230:LEU:O	4:FC:234:ILE:HG12	2.10	0.52
3:FD:214:THR:HG21	3:FD:273:LEU:HB3	1.91	0.52
4:FG:288:VAL:HG21	4:FG:328:VAL:HG12	1.91	0.52
4:FG:329:ASN:OD1	4:FG:330:ALA:N	2.42	0.52
3:FJ:166:THR:OG1	3:FJ:198:GLU:O	2.25	0.52
3:FJ:375:GLN:HA	3:FJ:378:PHE:CZ	2.44	0.52
4:FK:113:GLU:OE1	4:FK:113:GLU:N	2.43	0.52
11:Fc:226:GLN:O	11:Fc:230:ARG:HG2	2.10	0.52
11:Ff:355:ASN:O	11:Ff:359:THR:HG23	2.10	0.52
11:Fg:350:GLU:O	11:Fg:458:LYS:NZ	2.43	0.52
11:Fl:350:GLU:HG2	11:Fl:354:LYS:NZ	2.24	0.52
11:Fm:440:THR:O	11:Fm:444:LEU:HG	2.10	0.52
13:G2:353:GLN:HA	13:G2:356:LYS:HD3	1.92	0.52
14:G4:514:ASN:HB2	14:G4:519:LEU:HD23	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G6:575:LYS:HD2	14:G6:734:ARG:HD3	1.91	0.52
14:G6:590:THR:HG21	14:G6:594:LEU:HB3	1.92	0.52
4:GA:301:GLN:OE1	4:GA:301:GLN:N	2.43	0.52
4:GA:319:TYR:N	4:GA:354:GLY:O	2.33	0.52
3:GB:67:ASP:HB2	3:GB:73:MET:HE3	1.91	0.52
3:GB:118:ASP:OD1	3:GB:121:ARG:NH1	2.43	0.52
3:GD:11:GLN:HE21	39:GD:501:GTP:H3'	1.74	0.52
3:GH:4:ILE:HD11	3:GH:131:GLN:HB2	1.92	0.52
3:GJ:269:GLY:HA3	3:GJ:367:PHE:HB3	1.91	0.52
15:H1:13:GLU:CG	15:H1:14:PRO:HA	2.40	0.52
15:H6:11:THR:HG1	15:H6:15:HIS:CE1	2.27	0.52
3:HB:258:VAL:HG23	3:HB:263:LEU:HB2	1.90	0.52
4:HC:397:LEU:O	4:HC:401:LYS:HG2	2.09	0.52
4:HI:182:VAL:HA	4:HI:185:TYR:HD2	1.74	0.52
3:HJ:28:HIS:ND1	3:HJ:43:GLN:HB2	2.25	0.52
3:HJ:135:LEU:O	3:HJ:167:PHE:N	2.40	0.52
3:IB:344:TRP:O	4:IC:401:LYS:NZ	2.42	0.52
4:IC:135:PHE:HD2	4:IC:166:LYS:HG3	1.75	0.52
4:IC:301:GLN:OE1	4:IC:301:GLN:N	2.43	0.52
3:IF:250:LEU:O	3:IF:254:ALA:N	2.26	0.52
4:IG:213:CYS:O	4:IG:218:ASP:N	2.43	0.52
18:J:89:GLN:NE2	3:JH:362:LYS:HG2	2.25	0.52
19:J3:167:MET:HG3	19:J3:174:LEU:HD21	1.91	0.52
3:JB:378:PHE:CD1	3:JB:419:VAL:HG22	2.45	0.52
4:JC:239:THR:OG1	4:JC:243:ARG:NH1	2.43	0.52
3:JF:275:SER:O	3:JF:279:GLN:NE2	2.43	0.52
3:JH:2:ARG:HB3	3:JH:131:GLN:NE2	2.25	0.52
4:JI:104:ALA:O	4:JI:108:TYR:N	2.41	0.52
4:JI:271:THR:HA	4:JI:302:MET:HE1	1.91	0.52
21:K2:189:GLU:HG2	21:K2:190:LYS:N	2.25	0.52
4:KA:70:LEU:HA	4:KA:95:GLY:HA3	1.91	0.52
4:KA:287:SER:N	4:KA:290:GLU:OE2	2.43	0.52
4:KA:401:LYS:C	4:KA:402:ARG:HD3	2.34	0.52
3:KF:398:TYR:O	3:KF:402:GLY:N	2.39	0.52
4:KI:12:ALA:HB1	39:KI:501:GTP:C2	2.44	0.52
4:KI:102:ASN:HB3	4:KI:105:ARG:HB2	1.90	0.52
4:KI:139:HIS:CD2	4:KI:170:ALA:HB2	2.45	0.52
3:KL:199:THR:N	3:KL:264:HIS:O	2.43	0.52
20:L:101:LYS:HA	20:L:104:LEU:HD12	1.91	0.52
22:L3:158:ILE:O	22:L3:162:ASN:N	2.43	0.52
22:L3:175:TYR:HA	22:L3:178:GLU:HB2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:LA:167:LEU:HD13	4:LA:200:CYS:HB2	1.91	0.52
4:LA:329:ASN:OD1	4:LA:330:ALA:N	2.43	0.52
4:LA:424:ASP:O	4:LA:428:LEU:HG	2.10	0.52
3:LB:175:VAL:HG22	3:LB:177:ASP:H	1.74	0.52
4:LC:33:ASP:OD1	4:LC:34:GLY:N	2.43	0.52
4:LE:113:GLU:N	4:LE:113:GLU:OE1	2.43	0.52
3:LF:176:SER:O	3:LF:178:THR:N	2.43	0.52
4:LI:51:THR:HG23	4:LI:52:PHE:CD2	2.45	0.52
3:LL:189:VAL:HA	3:LL:192:LEU:HB3	1.92	0.52
3:LL:389:PHE:CZ	3:LL:405:GLU:HB2	2.45	0.52
3:MB:398:TYR:HB3	3:MB:403:MET:HB2	1.90	0.52
4:MC:102:ASN:HB3	4:MC:105:ARG:HB2	1.91	0.52
4:MC:312:TYR:HB2	4:MC:343:PHE:HA	1.92	0.52
3:MD:8:GLN:HE21	3:MD:21:TRP:HE1	1.57	0.52
4:ME:54:SER:HB2	4:ME:62:VAL:HB	1.92	0.52
4:ME:132:LEU:HD21	4:ME:135:PHE:HE1	1.75	0.52
3:MF:380:ARG:O	3:MF:384:GLN:HG2	2.10	0.52
4:MG:371:VAL:HG11	4:MG:374:ALA:HB2	1.92	0.52
3:MJ:12:CYS:SG	39:MJ:501:GTP:H5'	2.49	0.52
4:MK:104:ALA:HA	4:MK:107:HIS:HB3	1.90	0.52
3:NB:375:GLN:HA	3:NB:378:PHE:CZ	2.44	0.52
3:ND:323:MET:SD	3:ND:323:MET:N	2.82	0.52
3:NF:13:GLY:HA2	3:NF:16:ILE:HB	1.91	0.52
4:NG:144:GLY:N	39:NG:501:GTP:O2B	2.39	0.52
4:NG:272:TYR:CZ	4:NG:274:PRO:HG2	2.44	0.52
3:NH:7:LEU:HB2	3:NH:135:LEU:HG	1.92	0.52
3:NL:150:LEU:C	3:NL:154:LYS:HZ3	2.18	0.52
3:NL:289:LEU:HD22	3:NL:363:MET:HE2	1.91	0.52
4:OA:245:ASP:O	4:OA:356:ASN:ND2	2.43	0.52
3:OB:135:LEU:HD21	3:OB:151:LEU:HD11	1.91	0.52
4:OC:329:ASN:OD1	4:OC:330:ALA:N	2.42	0.52
4:OE:75:VAL:HG22	4:OE:79:ARG:HH21	1.74	0.52
4:OG:6:SER:HA	4:OG:136:LEU:HB2	1.91	0.52
3:PB:174:LYS:HG3	3:PB:175:VAL:HG12	1.90	0.52
4:PC:33:ASP:OD1	4:PC:34:GLY:N	2.41	0.52
3:PH:3:GLU:HG2	3:PH:130:LEU:HD13	1.91	0.52
3:PH:114:ASP:OD1	3:PH:115:SER:N	2.43	0.52
4:PI:264:ARG:O	4:PI:266:HIS:ND1	2.39	0.52
4:PI:272:TYR:CZ	4:PI:274:PRO:HG2	2.45	0.52
3:PJ:268:PRO:HD2	3:PJ:301:ALA:HB2	1.92	0.52
3:PL:378:PHE:HB2	3:PL:415:MET:SD	2.49	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:Q2:1506:SER:HB2	30:Q2:1509:ASP:HB2	1.90	0.52
3:QB:46:ARG:HB2	3:QB:241:ARG:NH1	2.23	0.52
3:QB:173:PRO:HD2	3:QB:205:GLU:CD	2.33	0.52
4:QC:206:ASN:HA	4:QC:209:ILE:HD12	1.92	0.52
4:QE:168:GLU:HB2	4:QE:201:ALA:HA	1.92	0.52
4:QE:180:ALA:HB3	4:QE:183:GLU:HB2	1.92	0.52
4:QG:346:TRP:CZ2	3:QH:391:ARG:HB2	2.45	0.52
3:QH:111:GLU:HG2	3:QH:112:LEU:HD12	1.91	0.52
3:QH:378:PHE:CD1	3:QH:419:VAL:HG22	2.44	0.52
3:QL:130:LEU:HB2	3:QL:162:ARG:HH11	1.73	0.52
3:RH:416:ASN:OD1	3:RH:417:ASP:N	2.43	0.52
4:RI:36:MET:HG3	4:RI:41:THR:OG1	2.10	0.52
3:RJ:2:ARG:HB3	3:RJ:131:GLN:NE2	2.24	0.52
4:RK:122:ILE:O	4:RK:126:ALA:N	2.39	0.52
4:RM:329:ASN:HA	4:RM:332:ILE:HG12	1.92	0.52
3:SB:48:ASN:HA	3:SB:51:TYR:O	2.09	0.52
3:SB:378:PHE:HA	3:SB:381:ILE:HG22	1.91	0.52
4:SE:12:ALA:HB1	39:SE:501:GTP:C2	2.44	0.52
4:SE:90:GLU:HG2	4:SE:121:ARG:NH2	2.25	0.52
4:SG:273:ALA:HB2	4:SG:295:CYS:HB3	1.90	0.52
3:SH:309:ARG:N	3:SH:372:THR:OG1	2.33	0.52
4:SI:185:TYR:HA	4:SI:395:PHE:HE1	1.75	0.52
4:SI:206:ASN:HA	4:SI:209:ILE:HD12	1.92	0.52
3:SJ:9:ALA:HB3	3:SJ:137:HIS:HB3	1.92	0.52
3:SL:415:MET:O	3:SL:419:VAL:HG23	2.10	0.52
3:TD:51:TYR:CE1	3:TD:61:PRO:HA	2.44	0.52
3:TF:21:TRP:NE1	3:TF:50:TYR:OH	2.38	0.52
4:TG:325:PRO:HA	4:TG:328:VAL:HB	1.92	0.52
4:TK:245:ASP:O	4:TK:356:ASN:ND2	2.43	0.52
3:UB:375:GLN:HA	3:UB:378:PHE:CZ	2.44	0.52
4:UE:259:LEU:HD21	4:UE:316:CYS:HB2	1.91	0.52
4:UG:49:PHE:CE1	4:UG:55:GLU:HB3	2.45	0.52
4:UG:371:VAL:HG11	4:UG:374:ALA:HB2	1.92	0.52
3:UJ:282:ARG:NH2	3:UJ:292:GLN:OE1	2.25	0.52
3:VB:3:GLU:OE2	3:VB:129:CYS:N	2.41	0.52
3:VD:11:GLN:HG3	39:VD:501:GTP:PA	2.49	0.52
4:VE:102:ASN:ND2	4:VE:411:GLU:OE2	2.38	0.52
4:VE:116:ASP:OD1	4:VE:117:LEU:N	2.43	0.52
3:VF:357:PRO:O	3:VF:359:ARG:NH1	2.39	0.52
4:VG:30:ILE:HD13	4:VG:36:MET:SD	2.49	0.52
4:VG:287:SER:OG	4:VG:290:GLU:OE1	2.28	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:VG:423:GLU:HA	4:VG:426:ALA:HB3	1.91	0.52
4:VI:256:GLN:O	4:VI:260:VAL:HG12	2.10	0.52
3:VJ:65:LEU:HD21	3:VJ:73:MET:HG2	1.91	0.52
4:VK:81:GLY:O	4:VK:84:ARG:NH1	2.43	0.52
4:WA:117:LEU:HD13	34:XA:6:PHE:CD2	2.44	0.52
4:WA:187:SER:O	4:WA:190:THR:OG1	2.24	0.52
3:WB:11:GLN:HE21	39:WB:501:GTP:H3'	1.75	0.52
4:WC:51:THR:HG23	4:WC:52:PHE:CD2	2.45	0.52
4:WE:68:VAL:HG12	4:WE:93:ILE:HB	1.91	0.52
3:WJ:2:ARG:HB3	3:WJ:131:GLN:NE2	2.24	0.52
34:XG:53:ASN:O	34:XG:56:THR:OG1	2.28	0.52
35:XI:206:GLY:HA2	35:XI:209:ILE:HD12	1.91	0.52
35:XM:157:GLN:OE1	35:XM:212:THR:HA	2.10	0.52
37:YB:33:ARG:NH2	37:YB:134:TYR:OH	2.43	0.52
37:YI:59:ASN:HB2	37:YI:62:HIS:CE1	2.44	0.52
37:YL:16:LYS:HA	37:YL:19:GLN:HG2	1.91	0.52
37:YL:77:SER:O	37:YL:81:GLN:NE2	2.43	0.52
37:YR:15:TYR:HA	37:YR:18:PHE:HB3	1.92	0.52
2:A2:162:ARG:NH2	13:G1:199:ILE:HG13	2.25	0.52
2:A3:129:HIS:HB3	2:A4:10:ARG:NE	2.21	0.52
2:A4:62:LYS:HA	2:A4:65:GLN:HG2	1.92	0.52
3:AH:6:HIS:CE1	3:AH:8:GLN:HB2	2.45	0.52
3:AH:262:ARG:NH2	35:XK:231:MET:HG3	2.24	0.52
3:AL:328:GLU:OE2	3:AL:329:GLN:NE2	2.43	0.52
4:AM:154:MET:HE1	4:AM:197:HIS:HB2	1.91	0.52
5:B2:153:GLU:O	5:B2:156:SER:OG	2.26	0.52
5:B3:396:LYS:HZ1	10:E2:61:GLN:HB2	1.74	0.52
5:B7:212:SER:O	5:B8:331:ARG:NH2	2.43	0.52
5:B8:73:ARG:O	5:B8:76:GLU:HG3	2.10	0.52
3:BB:218:THR:OG1	3:BB:219:THR:N	2.42	0.52
3:BB:357:PRO:O	3:BB:359:ARG:NH1	2.40	0.52
4:BC:8:HIS:CD2	4:BC:17:GLY:HA3	2.45	0.52
4:BC:210:TYR:OH	4:BC:221:ARG:NH2	2.42	0.52
3:BD:268:PRO:HD2	3:BD:301:ALA:HB2	1.91	0.52
4:BE:287:SER:N	4:BE:290:GLU:OE2	2.42	0.52
4:BE:329:ASN:OD1	4:BE:330:ALA:N	2.43	0.52
4:BG:7:ILE:N	4:BG:136:LEU:O	2.39	0.52
4:BG:287:SER:OG	4:BG:290:GLU:OE1	2.21	0.52
4:BI:88:HIS:CD2	4:CI:280:LYS:HZ1	2.28	0.52
3:BL:19:LYS:NZ	3:BL:223:GLY:O	2.43	0.52
4:BM:7:ILE:HB	4:BM:137:ILE:HA	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C2:375:ILE:O	7:C2:379:ILE:HG12	2.10	0.52
7:C4:147:GLY:O	7:C4:150:VAL:HG12	2.09	0.52
7:C8:363:THR:HG22	7:C8:367:LYS:NZ	2.25	0.52
3:CB:284:LEU:HD23	3:CB:363:MET:HE2	1.92	0.52
3:CB:326:VAL:O	3:CB:329:GLN:HB3	2.09	0.52
3:CF:130:LEU:HB2	3:CF:162:ARG:NH1	2.24	0.52
4:CK:84:ARG:HH21	15:H5:213:ILE:HG23	1.75	0.52
3:CL:402:GLY:C	3:CL:403:MET:HE2	2.35	0.52
8:D1:66:GLN:NE2	8:D1:70:ASP:OD2	2.43	0.52
8:D3:311:LEU:O	8:D3:314:SER:OG	2.22	0.52
8:D7:162:ARG:HH12	8:D7:168:VAL:H	1.57	0.52
8:D7:327:THR:O	8:D7:330:THR:OG1	2.26	0.52
8:D8:314:SER:O	8:D8:318:LEU:HG	2.10	0.52
8:D9:57:PHE:HB3	8:D9:61:TYR:CZ	2.44	0.52
3:DB:25:SER:O	3:DB:29:GLY:N	2.43	0.52
3:DB:118:ASP:OD1	3:DB:121:ARG:NH1	2.43	0.52
4:DC:68:VAL:HA	4:DC:93:ILE:HB	1.91	0.52
3:DD:317:PHE:O	3:DD:354:CYS:N	2.32	0.52
4:DE:54:SER:N	4:DE:62:VAL:O	2.42	0.52
4:DE:271:THR:HA	4:DE:302:MET:HE1	1.91	0.52
4:DE:398:MET:O	4:DE:402:ARG:N	2.43	0.52
3:DH:58:LYS:NZ	3:EH:280:GLN:HB2	2.25	0.52
3:DJ:234:SER:O	3:DJ:238:THR:HG23	2.09	0.52
3:DJ:282:ARG:HH22	3:DJ:292:GLN:CD	2.18	0.52
3:DL:306:ARG:NE	3:DL:306:ARG:O	2.40	0.52
10:E2:105:LEU:HD23	10:E2:110:THR:HG22	1.91	0.52
4:EA:208:ALA:N	4:EA:304:LYS:HZ1	2.07	0.52
4:EA:415:GLU:OE1	4:EA:415:GLU:N	2.31	0.52
3:EB:345:ILE:HD12	3:EB:346:PRO:HD2	1.91	0.52
4:EC:116:ASP:N	4:EC:116:ASP:OD1	2.43	0.52
4:EC:331:ALA:O	4:EC:334:THR:OG1	2.22	0.52
4:EG:274:PRO:HG3	4:EG:374:ALA:HA	1.90	0.52
3:EJ:206:ALA:O	3:EJ:210:ILE:HG12	2.09	0.52
11:F2:425:ASP:OD1	11:F2:428:GLN:NE2	2.43	0.52
3:FD:249:ASP:O	3:FD:252:LYS:HB3	2.10	0.52
4:FE:230:LEU:O	4:FE:234:ILE:HG12	2.10	0.52
4:FG:35:GLN:OE1	12:G:285:ARG:NH1	2.43	0.52
3:FJ:324:LYS:NZ	4:FK:222:PRO:O	2.31	0.52
4:FK:216:ASN:HB2	4:FK:276:ILE:HD12	1.91	0.52
4:FK:224:TYR:CE2	39:FK:501:GTP:C5	2.98	0.52
3:FL:286:VAL:HG21	3:FL:325:GLU:HG3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Fa:364:ILE:HD13	11:Fb:110:ARG:HH12	1.74	0.52
11:Fb:409:ARG:O	11:Fb:409:ARG:HG2	2.09	0.52
11:Fc:119:ASP:OD1	11:Fc:122:ARG:NH2	2.40	0.52
11:Fc:312:ALA:O	11:Fc:316:ARG:HG2	2.09	0.52
11:Fg:450:ARG:O	11:Fg:454:GLU:HG2	2.10	0.52
11:Fj:155:GLU:O	12:G:268:ARG:NH2	2.42	0.52
12:G:59:GLU:HG2	3:JL:94:GLN:HE22	1.75	0.52
13:G1:39:VAL:HG23	13:G1:41:ARG:HH12	1.75	0.52
13:G2:331:VAL:HB	13:G2:364:LEU:HD13	1.92	0.52
14:G6:48:LEU:HB2	14:G6:51:GLN:HB2	1.92	0.52
14:G6:84:TYR:HE2	14:G6:168:TYR:HB3	1.74	0.52
14:G6:155:ASN:ND2	14:G6:187:PRO:O	2.42	0.52
4:GA:341:ILE:O	4:GA:342:GLN:NE2	2.35	0.52
4:GE:260:VAL:HG23	4:GE:265:ILE:O	2.09	0.52
4:GG:220:GLU:O	4:GG:221:ARG:NE	2.41	0.52
4:GI:103:TYR:HB2	4:GI:186:ASN:HB2	1.91	0.52
3:GJ:357:PRO:HB3	3:GJ:362:LYS:HA	1.92	0.52
4:GK:319:TYR:N	4:GK:354:GLY:O	2.40	0.52
3:GL:58:LYS:NZ	3:HL:280:GLN:HB2	2.25	0.52
15:H4:20:TYR:HB2	15:H4:24:TYR:OH	2.09	0.52
15:H4:212:LEU:HD23	15:H4:212:LEU:H	1.75	0.52
4:HG:265:ILE:HD12	4:HG:432:TYR:CE1	2.45	0.52
3:HH:324:LYS:NZ	4:HI:222:PRO:O	2.28	0.52
4:HI:115:VAL:HA	4:HI:118:VAL:HG22	1.91	0.52
17:I1:41:TYR:O	17:I1:44:THR:OG1	2.27	0.52
4:IA:51:THR:HG23	4:IA:52:PHE:CD2	2.44	0.52
4:IA:260:VAL:HG23	4:IA:265:ILE:O	2.09	0.52
3:IB:375:GLN:C	3:IB:379:LYS:HZ3	2.18	0.52
3:ID:150:LEU:O	3:ID:153:SER:OG	2.24	0.52
3:ID:218:THR:OG1	3:ID:219:THR:N	2.43	0.52
39:ID:501:GTP:O3G	39:ID:501:GTP:O3'	2.22	0.52
3:IF:52:ASN:CG	3:IF:62:ARG:HD3	2.35	0.52
4:IG:260:VAL:HG23	4:IG:265:ILE:O	2.10	0.52
4:IK:20:CYS:O	4:IK:24:TYR:N	2.39	0.52
4:IK:46:ASP:OD1	4:IK:50:ASN:ND2	2.43	0.52
3:JB:12:CYS:SG	39:JB:501:GTP:H5'	2.50	0.52
3:JB:289:LEU:HD21	3:JB:363:MET:HB3	1.92	0.52
4:JC:171:ILE:HD12	4:JC:204:VAL:HG13	1.91	0.52
4:JC:214:ARG:NH1	4:JC:215:ARG:HG3	2.24	0.52
4:JE:316:CYS:N	4:JE:378:LEU:O	2.26	0.52
3:JH:132:GLY:HA3	3:JH:163:ILE:H	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:K4:185:ARG:HG3	21:K4:189:GLU:HG2	1.92	0.52
3:KB:317:PHE:O	3:KB:354:CYS:N	2.36	0.52
4:KC:49:PHE:HB2	4:KC:53:PHE:HB2	1.90	0.52
3:KF:8:GLN:HB3	3:KF:65:LEU:HA	1.91	0.52
4:KG:119:LEU:HD23	4:KG:122:ILE:HD11	1.92	0.52
3:KJ:309:ARG:NE	3:KJ:426:GLN:HE21	2.02	0.52
3:KL:194:GLU:OE2	31:R3:136:ARG:NE	2.42	0.52
3:KL:286:VAL:HG21	3:KL:325:GLU:HG3	1.91	0.52
22:L3:142:PHE:N	22:L3:143:PRO:HD3	2.24	0.52
4:LA:5:ILE:HD13	4:LA:64:ARG:HB3	1.91	0.52
3:LB:36:TYR:HE2	3:LB:44:LEU:HD13	1.75	0.52
3:LH:392:LYS:HD2	3:LH:392:LYS:O	2.09	0.52
3:LJ:253:LEU:O	3:LJ:257:MET:HG2	2.10	0.52
4:MC:12:ALA:O	39:MC:501:GTP:N1	2.43	0.52
4:MC:53:PHE:O	4:MC:64:ARG:NH1	2.42	0.52
4:MI:398:MET:O	4:MI:402:ARG:N	2.43	0.52
4:MM:245:ASP:OD1	4:MM:249:ASN:ND2	2.41	0.52
4:NC:390:ARG:HA	4:NC:393:HIS:CE1	2.44	0.52
3:ND:15:GLN:HG3	3:ND:222:TYR:CE2	2.45	0.52
3:ND:305:PRO:HA	3:ND:373:ALA:HB2	1.92	0.52
3:NF:295:ASP:HB2	3:NF:298:ASN:HB2	1.92	0.52
4:NG:322:ASP:N	4:NG:322:ASP:OD1	2.42	0.52
3:NH:28:HIS:ND1	3:NH:43:GLN:HB2	2.24	0.52
4:NI:146:GLY:N	39:NI:501:GTP:O2B	2.43	0.52
3:NL:3:GLU:HG2	3:NL:130:LEU:HD23	1.90	0.52
3:OB:234:SER:O	3:OB:238:THR:HG23	2.10	0.52
3:OB:235:GLY:O	3:OB:238:THR:OG1	2.24	0.52
3:OB:269:GLY:N	3:OB:367:PHE:O	2.43	0.52
3:OD:268:PRO:HD2	3:OD:301:ALA:HB2	1.92	0.52
3:OF:345:ILE:HG13	3:OF:348:ASN:HB3	1.91	0.52
3:OH:234:SER:O	3:OH:238:THR:HG23	2.10	0.52
4:OI:36:MET:HG3	4:OI:41:THR:OG1	2.08	0.52
4:OI:408:TYR:CD2	4:OI:418:PHE:HZ	2.28	0.52
29:P1:21:GLY:HA2	29:P1:330:CYS:SG	2.50	0.52
3:PB:47:ILE:HG12	3:PB:59:TYR:CD2	2.45	0.52
4:PC:9:VAL:HA	4:PC:68:VAL:HG23	1.91	0.52
3:PD:389:PHE:HZ	3:PD:405:GLU:HB2	1.75	0.52
4:PE:93:ILE:HG13	4:PE:118:VAL:HG12	1.91	0.52
3:PF:216:LYS:O	3:PF:276:ARG:NH2	2.42	0.52
4:PG:256:GLN:O	4:PG:260:VAL:HG12	2.10	0.52
4:PI:168:GLU:HB2	4:PI:201:ALA:HA	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PJ:13:GLY:HA2	3:PJ:16:ILE:HB	1.91	0.52
4:PK:293:ASN:HA	4:PK:296:PHE:CE2	2.44	0.52
3:PL:240:LEU:HA	3:PL:248:ALA:HB1	1.92	0.52
3:QB:32:PRO:O	3:QB:83:GLN:NE2	2.38	0.52
4:QI:317:MET:O	4:QI:354:GLY:N	2.42	0.52
3:QJ:12:CYS:SG	3:QJ:13:GLY:N	2.83	0.52
3:QL:12:CYS:HA	39:QL:501:GTP:HN22	1.75	0.52
4:RC:287:SER:OG	4:RC:290:GLU:OE1	2.23	0.52
3:RD:37:HIS:HA	37:YE:64:ARG:HH22	1.75	0.52
3:RD:137:HIS:CE1	3:RD:168:SER:HB2	2.45	0.52
3:RD:423:GLN:O	3:RD:427:ASP:N	2.43	0.52
4:RE:9:VAL:HG11	4:RE:150:ALA:HB2	1.91	0.52
4:RE:88:HIS:CD2	4:SE:280:LYS:HZ1	2.28	0.52
4:RE:272:TYR:CZ	4:RE:274:PRO:HG2	2.44	0.52
3:RF:12:CYS:HA	39:RF:501:GTP:N2	2.25	0.52
4:RG:102:ASN:HB3	4:RG:105:ARG:HB2	1.91	0.52
4:RK:264:ARG:HG2	4:RK:265:ILE:N	2.25	0.52
4:RK:434:GLU:HA	4:RK:437:VAL:HB	1.90	0.52
3:RL:11:GLN:HG3	39:RL:501:GTP:PA	2.50	0.52
3:RL:52:ASN:OD1	3:RL:53:GLU:N	2.41	0.52
3:SD:269:GLY:N	3:SD:367:PHE:O	2.43	0.52
3:SF:258:VAL:O	4:SG:407:TRP:NE1	2.42	0.52
4:SK:10:GLY:O	4:SK:14:VAL:HG13	2.09	0.52
4:SK:399:TYR:OH	4:SK:415:GLU:OE1	2.16	0.52
3:TD:249:ASP:O	3:TD:252:LYS:HB2	2.09	0.52
4:TE:245:ASP:O	4:TE:356:ASN:ND2	2.43	0.52
4:TE:338:LYS:HZ2	4:TE:340:THR:H	1.57	0.52
4:TE:428:LEU:O	4:TE:432:TYR:N	2.38	0.52
3:TF:12:CYS:SG	3:TF:13:GLY:N	2.83	0.52
4:TI:125:LEU:HD13	4:TI:128:LEU:HD21	1.91	0.52
4:TI:208:ALA:N	4:TI:304:LYS:HZ1	2.05	0.52
3:TJ:322:SER:N	3:TJ:325:GLU:OE2	2.43	0.52
4:TM:103:TYR:HB2	4:TM:186:ASN:HB2	1.91	0.52
4:TM:172:TYR:HB2	4:TM:203:MET:HB2	1.92	0.52
3:TN:235:GLY:O	3:TN:238:THR:OG1	2.25	0.52
4:UA:33:ASP:OD1	4:UA:34:GLY:N	2.41	0.52
4:UI:34:GLY:HA2	4:UI:86:LEU:HD11	1.92	0.52
4:UK:50:ASN:O	4:UK:64:ARG:NH1	2.43	0.52
4:UK:98:ASP:O	4:UK:105:ARG:NH2	2.32	0.52
4:VA:9:VAL:HA	4:VA:68:VAL:HG23	1.92	0.52
4:VA:51:THR:HG23	4:VA:52:PHE:CD2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:VC:317:MET:SD	4:VC:317:MET:N	2.80	0.52
4:VG:408:TYR:CD2	4:VG:418:PHE:HZ	2.28	0.52
3:VH:77:ARG:O	3:VH:77:ARG:NH1	2.35	0.52
3:VJ:47:ILE:HG12	3:VJ:59:TYR:CD2	2.45	0.52
4:WA:392:ASP:OD1	4:WA:393:HIS:N	2.42	0.52
3:WB:262:ARG:NH2	3:WB:425:TYR:OH	2.39	0.52
3:WB:378:PHE:CD1	3:WB:419:VAL:HG22	2.44	0.52
4:WE:22:GLU:O	4:WE:26:LEU:HD23	2.10	0.52
4:WE:207:GLU:HB2	4:WE:304:LYS:NZ	2.24	0.52
4:WG:9:VAL:HA	4:WG:68:VAL:HG23	1.91	0.52
4:WG:22:GLU:O	4:WG:26:LEU:HD23	2.10	0.52
4:WG:76:ASP:OD1	4:WG:79:ARG:NH1	2.43	0.52
3:WL:12:CYS:HB3	39:WL:501:GTP:H5'	1.92	0.52
34:XA:103:PHE:HB3	34:XA:121:MET:HE1	1.92	0.52
35:XK:145:ASN:HB3	35:XK:148:ILE:HD12	1.90	0.52
37:YF:113:LEU:HD21	37:YF:143:ILE:HG21	1.90	0.52
37:YG:59:ASN:HB2	37:YG:62:HIS:CE1	2.45	0.52
37:YK:90:THR:N	37:YK:93:THR:OG1	2.42	0.52
37:YK:136:GLY:O	37:YK:140:LEU:N	2.43	0.52
37:YM:93:THR:HB	37:YM:151:TRP:CD1	2.45	0.52
37:YQ:136:GLY:O	37:YQ:140:LEU:N	2.33	0.52
37:YV:146:ASP:OD1	37:YV:147:PHE:N	2.42	0.52
36:Z:223:GLU:OE1	36:Z:226:ARG:NH2	2.42	0.52
1:A:283:GLU:O	1:A:287:ARG:HD3	2.10	0.52
2:A1:285:VAL:HA	2:A2:31:ARG:NH1	2.25	0.52
2:A3:66:ARG:O	2:A3:70:VAL:HG23	2.10	0.52
2:A3:133:GLU:O	2:A3:137:GLN:HG2	2.10	0.52
2:A3:149:LEU:O	2:A3:153:THR:HG23	2.10	0.52
2:A4:91:LEU:HD11	2:A4:235:SER:HB3	1.91	0.52
3:AB:20:PHE:CD1	3:AB:233:MET:HE3	2.44	0.52
3:AB:302:ALA:HB1	3:AB:377:LEU:HD11	1.91	0.52
3:AD:19:LYS:NZ	3:AD:223:GLY:O	2.42	0.52
3:AD:305:PRO:HB2	3:AD:310:TYR:HE1	1.75	0.52
4:AE:54:SER:N	4:AE:62:VAL:O	2.42	0.52
3:AH:173:PRO:HD3	3:AH:203:ASP:OD1	2.10	0.52
4:AI:145:THR:OG1	39:AI:501:GTP:O1B	2.27	0.52
3:AJ:309:ARG:N	3:AJ:372:THR:OG1	2.28	0.52
4:AK:210:TYR:OH	4:AK:221:ARG:NH2	2.42	0.52
3:AL:2:ARG:HB3	3:AL:131:GLN:NE2	2.25	0.52
5:B1:325:SER:HB3	5:B1:328:GLU:HB2	1.92	0.52
5:B2:302:GLU:HG2	5:B2:306:ARG:HH22	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B7:120:ARG:HH12	5:B7:390:CYS:HB3	1.74	0.52
5:B7:160:GLN:O	5:B7:164:LEU:HG	2.09	0.52
4:BC:105:ARG:O	4:BC:109:THR:OG1	2.25	0.52
3:BD:172:SER:OG	3:BD:205:GLU:OE2	2.25	0.52
3:BH:12:CYS:HA	39:BH:501:GTP:N2	2.24	0.52
7:C2:309:LEU:HD23	7:C2:312:GLN:NE2	2.24	0.52
7:C3:200:PHE:O	7:C3:204:LYS:HG2	2.09	0.52
7:C3:245:ALA:HB3	11:Fl:235:ARG:NH2	2.25	0.52
7:C8:131:LYS:NZ	7:C9:430:THR:HG23	2.25	0.52
4:CE:9:VAL:HG11	4:CE:150:ALA:HB2	1.91	0.52
4:CE:49:PHE:CD2	4:CE:61:HIS:CE1	2.96	0.52
4:CG:47:ASP:HB3	4:CG:49:PHE:CE2	2.44	0.52
4:CG:331:ALA:O	4:CG:334:THR:OG1	2.18	0.52
4:CK:405:VAL:O	4:CK:409:VAL:HG22	2.10	0.52
3:CL:33:THR:HG22	14:G6:349:ARG:NH1	2.25	0.52
4:CM:34:GLY:HA2	4:CM:86:LEU:HD11	1.92	0.52
6:D:29:ILE:HA	6:D:44:GLU:HA	1.92	0.52
8:D2:308:CYS:HA	8:D2:311:LEU:HD12	1.92	0.52
8:D2:320:TYR:HD1	8:D2:323:ARG:HH22	1.58	0.52
8:D3:368:LEU:HB3	8:D3:370:ARG:NH1	2.25	0.52
4:DC:208:ALA:HA	4:DC:211:ASP:HB2	1.92	0.52
3:DD:119:VAL:HA	3:DD:122:LYS:HE3	1.92	0.52
4:DG:154:MET:HE1	4:DG:197:HIS:HB2	1.90	0.52
3:DH:139:LEU:HD21	3:DH:170:VAL:HG22	1.90	0.52
4:DI:89:PRO:HB3	15:H5:284:PHE:HE1	1.75	0.52
3:DJ:5:VAL:HG23	3:DJ:130:LEU:HD21	1.92	0.52
3:DJ:262:ARG:HD2	3:DJ:421:GLU:HG3	1.91	0.52
3:DL:317:PHE:HE2	3:DL:326:VAL:HG23	1.75	0.52
3:DL:322:SER:N	3:DL:325:GLU:OE2	2.39	0.52
3:EB:11:GLN:HG3	39:EB:501:GTP:PA	2.49	0.52
3:EB:155:ILE:HA	3:EB:158:GLU:HB2	1.91	0.52
3:ED:106:TYR:HB2	3:ED:401:GLU:OE2	2.10	0.52
3:EF:375:GLN:HA	3:EF:378:PHE:CZ	2.45	0.52
4:EG:30:ILE:HG13	4:EG:53:PHE:HE2	1.75	0.52
3:EH:113:VAL:HA	3:EH:116:VAL:HG22	1.91	0.52
3:EH:282:ARG:NH2	3:EH:292:GLN:OE1	2.30	0.52
4:EI:1:MET:N	4:EI:130:THR:OG1	2.39	0.52
4:EI:87:PHE:CD2	4:EI:92:LEU:HD21	2.45	0.52
11:F1:195:LEU:O	11:F1:198:ARG:HD3	2.09	0.52
11:F3:209:ASP:HB2	11:F3:346:ARG:NH2	2.24	0.52
11:F3:213:LYS:O	11:F3:217:ARG:HD3	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:F7:296:TRP:CD1	11:F8:405:VAL:HG12	2.45	0.52
3:FB:266:PHE:HD1	3:FB:370:ASN:HB2	1.75	0.52
3:FD:172:SER:OG	3:FD:205:GLU:OE2	2.25	0.52
3:FF:47:ILE:HG12	3:FF:59:TYR:CD2	2.45	0.52
3:FH:372:THR:HB	3:FH:375:GLN:HE22	1.75	0.52
4:FK:52:PHE:CZ	4:FK:239:THR:HB	2.41	0.52
4:FK:327:ASP:OD1	4:FK:328:VAL:N	2.43	0.52
3:FL:68:LEU:HA	3:FL:93:GLY:H	1.74	0.52
11:Fj:382:ILE:HD12	11:Fj:385:LYS:HE3	1.91	0.52
11:Fm:425:ASP:OD1	11:Fm:426:THR:N	2.43	0.52
13:G3:281:ARG:HH11	13:G3:282:ASN:H	1.58	0.52
14:G4:580:ASN:OD1	14:G4:581:THR:N	2.42	0.52
14:G5:591:MET:HE2	14:G5:591:MET:N	2.25	0.52
4:GA:88:HIS:HA	4:HA:283:HIS:CE1	2.45	0.52
4:GA:139:HIS:CD2	4:GA:170:ALA:HB2	2.45	0.52
4:GC:214:ARG:NH1	4:GC:215:ARG:HG2	2.25	0.52
4:GC:306:ASP:HB3	4:GC:309:HIS:ND1	2.25	0.52
3:GD:392:LYS:HG3	3:GD:395:LEU:HD13	1.92	0.52
4:GE:317:MET:HE1	4:GE:351:PHE:HB3	1.92	0.52
3:GF:66:VAL:HA	3:GF:91:VAL:O	2.10	0.52
3:GF:235:GLY:O	3:GF:238:THR:OG1	2.25	0.52
4:GG:256:GLN:O	4:GG:260:VAL:HG12	2.09	0.52
3:GH:88:ASP:OD1	3:GH:89:ASN:N	2.43	0.52
4:GI:89:PRO:HD2	4:HI:280:LYS:NZ	2.25	0.52
15:H3:291:SER:HB3	15:H3:315:ARG:HH11	1.75	0.52
3:HB:321:MET:HE2	3:HB:321:MET:HA	1.91	0.52
4:HC:256:GLN:O	4:HC:260:VAL:HG12	2.10	0.52
3:HD:206:ALA:O	3:HD:210:ILE:HG12	2.10	0.52
4:HE:10:GLY:O	4:HE:14:VAL:HG13	2.09	0.52
3:HF:16:ILE:HD13	3:HF:226:ASN:ND2	2.25	0.52
3:HF:210:ILE:HG22	3:HF:215:LEU:HD23	1.92	0.52
4:HG:220:GLU:O	4:HG:221:ARG:NE	2.43	0.52
3:IB:167:PHE:HD1	3:IB:200:TYR:CD2	2.28	0.52
3:ID:130:LEU:HB2	3:ID:162:ARG:HH11	1.74	0.52
4:IE:10:GLY:O	4:IE:14:VAL:HG13	2.09	0.52
3:IF:277:GLY:O	3:IF:280:GLN:NE2	2.42	0.52
4:II:191:THR:HA	4:II:194:THR:HG22	1.91	0.52
3:IJ:52:ASN:CG	3:IJ:62:ARG:HD3	2.35	0.52
4:IK:50:ASN:O	4:IK:64:ARG:NH1	2.43	0.52
4:IK:171:ILE:HD12	4:IK:204:VAL:HG13	1.90	0.52
4:IK:264:ARG:O	4:IK:266:HIS:ND1	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:IM:10:GLY:O	4:IM:14:VAL:HG13	2.10	0.52
19:J2:162:ARG:NH2	19:J2:163:ASN:O	2.42	0.52
4:JA:135:PHE:HD2	4:JA:166:LYS:HG3	1.75	0.52
3:JB:3:GLU:HG2	3:JB:130:LEU:HD23	1.91	0.52
3:JD:132:GLY:HA3	3:JD:163:ILE:HB	1.91	0.52
3:JD:330:MET:HE1	4:JE:177:VAL:HG13	1.91	0.52
4:JG:88:HIS:CD2	4:KG:280:LYS:HZ1	2.28	0.52
3:JL:345:ILE:HD12	3:JL:346:PRO:HD2	1.92	0.52
21:K3:196:ASP:HA	21:K3:199:LEU:HB3	1.92	0.52
21:K4:469:HIS:CE1	3:KL:400:GLY:HA2	2.44	0.52
4:KC:287:SER:OG	4:KC:290:GLU:OE1	2.21	0.52
4:KC:319:TYR:HB2	4:KC:355:ILE:HD13	1.91	0.52
4:KE:9:VAL:HG11	4:KE:150:ALA:HB2	1.92	0.52
4:KI:301:GLN:N	4:KI:301:GLN:OE1	2.43	0.52
3:KJ:286:VAL:HA	3:KJ:363:MET:HE1	1.90	0.52
22:L1:158:ILE:HG12	4:MC:422:ARG:HD2	1.91	0.52
4:LG:256:GLN:O	4:LG:260:VAL:HG12	2.10	0.52
3:LH:173:PRO:O	3:LH:380:ARG:NH2	2.43	0.52
4:LI:208:ALA:H	4:LI:304:LYS:NZ	2.08	0.52
4:LI:295:CYS:HB2	4:LI:377:MET:HG2	1.91	0.52
3:LL:2:ARG:HB3	3:LL:131:GLN:NE2	2.25	0.52
3:LL:83:GLN:O	3:LL:86:ARG:NH2	2.42	0.52
24:M3:94:GLU:OE1	24:M3:94:GLU:N	2.42	0.52
3:MB:269:GLY:N	3:MB:367:PHE:O	2.43	0.52
4:ME:36:MET:HE3	4:ME:36:MET:HA	1.92	0.52
3:MH:12:CYS:SG	39:MH:501:GTP:H5'	2.50	0.52
3:MH:234:SER:O	3:MH:238:THR:HG23	2.10	0.52
4:MI:119:LEU:HA	4:MI:122:ILE:HG22	1.92	0.52
4:MK:214:ARG:NH1	4:MK:215:ARG:HG3	2.24	0.52
4:MM:319:TYR:N	4:MM:354:GLY:O	2.43	0.52
4:NA:263:PRO:HD3	3:NB:396:HIS:CD2	2.45	0.52
3:ND:217:LEU:HD11	3:ND:220:PRO:HB3	1.92	0.52
4:NE:331:ALA:O	4:NE:334:THR:OG1	2.27	0.52
3:NH:250:LEU:HD13	3:NH:253:LEU:HD12	1.92	0.52
4:NK:187:SER:O	4:NK:190:THR:OG1	2.25	0.52
3:NL:166:THR:OG1	3:NL:198:GLU:O	2.24	0.52
27:O:59:LYS:O	27:O:63:GLU:N	2.36	0.52
28:O1:92:LEU:O	28:O1:96:ILE:HG12	2.10	0.52
28:O2:100:PRO:HA	28:O2:103:LEU:HB2	1.90	0.52
4:OG:261:PRO:HA	3:OH:394:PHE:CE1	2.44	0.52
4:OG:395:PHE:HD2	4:OG:422:ARG:HD3	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:OI:2:ARG:HA	4:OI:133:GLN:HE22	1.74	0.52
4:OI:171:ILE:HD12	4:OI:204:VAL:HG13	1.90	0.52
4:OI:392:ASP:OD1	4:OI:393:HIS:N	2.42	0.52
4:OK:6:SER:HA	4:OK:136:LEU:HB2	1.91	0.52
3:OL:309:ARG:HH22	3:OL:344:TRP:HZ3	1.58	0.52
27:P:328:GLN:HA	27:P:331:LEU:HD12	1.91	0.52
29:P3:383:MET:SD	29:P3:388:SER:HB2	2.50	0.52
29:P3:407:ARG:NH1	29:P3:409:MET:HG2	2.25	0.52
4:PA:33:ASP:OD1	4:PA:34:GLY:N	2.42	0.52
4:PA:49:PHE:CE1	4:PA:55:GLU:HB3	2.45	0.52
3:PD:52:ASN:OD1	3:PD:62:ARG:NH1	2.41	0.52
4:PE:1:MET:O	4:PE:131:GLY:HA3	2.09	0.52
4:PE:216:ASN:ND2	4:PE:275:VAL:O	2.43	0.52
4:PK:154:MET:HA	4:PK:157:LEU:HG	1.92	0.52
3:PL:250:LEU:HD13	3:PL:253:LEU:HD12	1.91	0.52
4:QC:1:MET:N	4:QC:130:THR:OG1	2.42	0.52
3:QD:375:GLN:HA	3:QD:378:PHE:CZ	2.45	0.52
4:QG:76:ASP:OD1	4:QG:79:ARG:NH1	2.42	0.52
3:QH:322:SER:N	3:QH:325:GLU:OE2	2.42	0.52
4:QI:272:TYR:CZ	4:QI:274:PRO:HG2	2.44	0.52
3:QL:217:LEU:HB3	3:QL:276:ARG:NH2	2.24	0.52
4:RE:102:ASN:ND2	4:RE:411:GLU:OE2	2.41	0.52
4:RE:204:VAL:HA	4:RE:302:MET:SD	2.50	0.52
3:RH:249:ASP:O	3:RH:252:LYS:HB2	2.10	0.52
3:RH:309:ARG:N	3:RH:372:THR:HG1	2.07	0.52
4:RI:286:LEU:HD11	4:RI:373:ARG:H	1.75	0.52
4:RI:312:TYR:CE2	4:RI:341:ILE:HD11	2.45	0.52
3:RJ:423:GLN:O	3:RJ:427:ASP:N	2.40	0.52
4:RK:224:TYR:HE2	39:RK:501:GTP:C6	2.27	0.52
4:RK:236:SER:O	4:RK:243:ARG:NH2	2.35	0.52
4:SC:36:MET:HG3	4:SC:41:THR:OG1	2.09	0.52
4:SG:154:MET:HE3	4:SG:194:THR:HG22	1.92	0.52
4:SI:50:ASN:OD1	4:SI:51:THR:N	2.42	0.52
4:SK:76:ASP:OD1	4:SK:79:ARG:NH1	2.43	0.52
4:SK:388:TRP:HB3	4:SK:425:LEU:HD11	1.91	0.52
4:SM:187:SER:O	4:SM:190:THR:OG1	2.23	0.52
3:TF:151:LEU:HD22	3:TF:154:LYS:HZ1	1.75	0.52
3:TF:235:GLY:O	3:TF:238:THR:OG1	2.19	0.52
3:TJ:324:LYS:HE2	4:TK:222:PRO:HG2	1.91	0.52
4:TK:16:ILE:HD11	4:TK:138:PHE:HB3	1.91	0.52
4:TK:172:TYR:N	4:TK:204:VAL:O	2.37	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TL:9:ALA:O	3:TL:13:GLY:HA3	2.09	0.52
3:TL:189:VAL:HA	3:TL:192:LEU:HB2	1.92	0.52
4:TM:326:LYS:HD2	3:TN:208:TYR:CE2	2.43	0.52
4:UA:392:ASP:OD1	4:UA:393:HIS:N	2.43	0.52
4:UE:319:TYR:N	4:UE:354:GLY:O	2.38	0.52
4:UG:3:GLU:N	4:UG:133:GLN:OE1	2.43	0.52
3:UJ:4:ILE:HB	3:UJ:50:TYR:CE1	2.45	0.52
3:UJ:392:LYS:HB2	3:UJ:395:LEU:HD13	1.92	0.52
4:UK:411:GLU:OE2	4:UK:413:MET:HE1	2.09	0.52
4:VE:68:VAL:HG12	4:VE:93:ILE:HB	1.92	0.52
3:VF:139:LEU:HD21	3:VF:170:VAL:HG22	1.91	0.52
4:VG:104:ALA:HA	4:VG:107:HIS:HB3	1.91	0.52
4:VG:161:TYR:O	4:VG:166:LYS:NZ	2.41	0.52
3:VJ:36:TYR:OH	3:VJ:43:GLN:NE2	2.39	0.52
3:VJ:295:ASP:HB2	3:VJ:298:ASN:HB2	1.92	0.52
3:VL:139:LEU:N	3:VL:168:SER:OG	2.42	0.52
33:W:82:ILE:HG23	33:W:87:VAL:HG22	1.91	0.52
3:WB:141:GLY:HA3	39:WB:501:GTP:H5"	1.92	0.52
4:WC:120:ASP:HA	4:WC:123:ARG:HG2	1.92	0.52
3:WD:380:ARG:O	3:WD:384:GLN:HG2	2.09	0.52
4:WE:272:TYR:CZ	4:WE:274:PRO:HG2	2.44	0.52
4:WG:154:MET:HA	4:WG:157:LEU:HG	1.91	0.52
4:WG:154:MET:HE1	4:WG:197:HIS:HB2	1.91	0.52
4:WG:392:ASP:OD1	4:WG:393:HIS:N	2.42	0.52
4:WK:154:MET:HA	4:WK:157:LEU:HG	1.91	0.52
34:XC:39:ASP:OD1	34:XC:41:ASP:N	2.42	0.52
34:XE:81:LYS:HB2	34:XE:129:TRP:CE2	2.45	0.52
34:XE:178:PRO:O	34:XE:182:LYS:N	2.39	0.52
35:XH:157:GLN:OE1	35:XH:212:THR:HA	2.10	0.52
35:XM:216:PHE:O	35:XM:220:GLY:N	2.41	0.52
37:YG:115:ALA:HB2	37:YG:143:ILE:HD11	1.92	0.52
37:YH:113:LEU:O	37:YH:113:LEU:HD23	2.09	0.52
37:YQ:50:GLN:O	37:YQ:53:MET:HG3	2.10	0.52
37:YS:128:ASP:HA	37:YS:131:ARG:HD3	1.92	0.52
37:YU:41:ARG:NH2	37:YU:44:SER:OG	2.43	0.52
37:YW:114:ARG:NH2	37:YW:133:HIS:O	2.42	0.52
2:A1:82:GLU:OE2	7:C1:275:ARG:NH2	2.43	0.52
2:A1:292:GLN:HE22	2:A1:361:GLN:HB3	1.74	0.52
4:AC:264:ARG:HD2	34:XB:115:LYS:HD3	1.92	0.52
4:AE:402:ARG:CZ	35:XI:234:THR:HG23	2.40	0.52
4:AG:2:ARG:HA	4:AG:133:GLN:HE22	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AG:363:VAL:H	4:AG:368:LEU:HD21	1.75	0.52
3:AJ:6:HIS:HE1	3:AJ:8:GLN:OE1	1.93	0.52
4:AK:264:ARG:NH1	34:XF:116:PRO:HD2	2.24	0.52
3:AL:386:THR:O	3:AL:390:ARG:HB2	2.10	0.52
5:B2:149:LYS:O	5:B2:152:GLN:NE2	2.43	0.52
5:B3:413:ARG:HD2	8:D3:403:ARG:HD2	1.92	0.52
5:B4:36:HIS:O	5:B4:40:GLN:HG2	2.09	0.52
5:B6:164:LEU:O	5:B6:168:ILE:HG12	2.10	0.52
5:B7:120:ARG:NH2	5:B7:386:LEU:HB3	2.25	0.52
5:B7:348:THR:O	5:B7:352:MET:HG2	2.10	0.52
5:B8:123:ARG:HE	5:B8:124:ARG:H	1.58	0.52
5:B8:302:GLU:HG2	5:B8:306:ARG:HH22	1.73	0.52
5:B9:275:PHE:O	5:B9:278:GLU:HG2	2.10	0.52
3:BD:44:LEU:HD21	15:H2:25:PRO:HG3	1.92	0.52
4:BE:263:PRO:C	4:BE:264:ARG:HD3	2.35	0.52
4:BI:67:PHE:HB2	4:BI:92:LEU:HD13	1.91	0.52
4:BI:122:ILE:O	4:BI:126:ALA:N	2.39	0.52
3:BJ:46:ARG:HH22	4:BK:73:THR:HA	1.75	0.52
3:BJ:372:THR:HB	3:BJ:375:GLN:HE22	1.75	0.52
4:BK:79:ARG:HH22	15:H5:19:GLY:CA	2.23	0.52
3:BL:302:ALA:HB1	3:BL:377:LEU:HD11	1.92	0.52
4:BM:224:TYR:CE2	39:BM:501:GTP:C5	2.96	0.52
7:C1:278:SER:OG	7:C1:279:GLU:N	2.43	0.52
7:C2:139:GLN:OE1	7:C2:142:SER:OG	2.28	0.52
7:C4:363:THR:HG22	7:C4:367:LYS:HZ1	1.75	0.52
7:C6:129:GLN:H	7:C6:129:GLN:CD	2.18	0.52
3:CB:70:PRO:HA	3:CB:73:MET:HE3	1.91	0.52
4:CC:1:MET:SD	4:CC:2:ARG:N	2.83	0.52
4:CC:143:GLY:HA3	4:CC:147:SER:H	1.75	0.52
4:CC:271:THR:HB	4:CC:377:MET:HE3	1.92	0.52
4:CC:316:CYS:N	4:CC:378:LEU:O	2.26	0.52
4:CE:175:PRO:HB2	4:CE:390:ARG:HH11	1.74	0.52
4:CE:214:ARG:NH1	4:CE:215:ARG:HG3	2.25	0.52
3:CF:12:CYS:SG	39:CF:501:GTP:H5'	2.50	0.52
4:CG:83:TYR:HB3	4:CG:86:LEU:HD12	1.91	0.52
3:CJ:111:GLU:HG2	3:CJ:112:LEU:HD12	1.92	0.52
3:CL:317:PHE:O	3:CL:354:CYS:N	2.36	0.52
4:CM:23:LEU:HA	4:CM:26:LEU:HD12	1.91	0.52
4:CM:113:GLU:OE1	4:CM:113:GLU:N	2.40	0.52
8:D2:403:ARG:O	8:D2:406:GLU:HG3	2.10	0.52
8:D3:241:TYR:HB2	8:D4:354:GLN:NE2	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:D4:127:GLU:OE2	8:D4:279:ARG:NH1	2.42	0.52
8:D4:286:LEU:HD21	8:D4:444:ALA:HB1	1.91	0.52
8:D4:407:ASP:O	8:D4:410:MET:HG3	2.10	0.52
8:D5:397:ASP:O	8:D5:400:GLN:HG3	2.09	0.52
8:D8:131:MET:HE1	8:D8:279:ARG:HD3	1.92	0.52
8:D8:183:ILE:O	8:D8:187:GLN:HG2	2.10	0.52
3:DD:246:LEU:HB2	3:DD:352:ALA:HB1	1.92	0.52
4:DE:371:VAL:HG11	4:DE:374:ALA:HB2	1.91	0.52
4:DG:204:VAL:HG23	4:DG:302:MET:HG3	1.91	0.52
4:DG:252:LEU:HA	4:DG:255:PHE:HB2	1.92	0.52
4:DG:302:MET:SD	4:DG:302:MET:N	2.81	0.52
4:DI:139:HIS:CE1	4:DI:168:GLU:HB3	2.45	0.52
9:E:656:GLU:HG2	9:E:657:HIS:H	1.74	0.52
10:E3:152:THR:C	10:E3:154:ASN:H	2.18	0.52
3:EB:249:ASP:O	3:EB:252:LYS:HB2	2.10	0.52
3:ED:130:LEU:HB2	3:ED:162:ARG:NH1	2.25	0.52
4:EE:12:ALA:HB1	39:EE:501:GTP:N2	2.23	0.52
4:EE:187:SER:O	4:EE:190:THR:OG1	2.23	0.52
4:EK:2:ARG:NH1	4:EK:241:SER:O	2.43	0.52
9:F:412:ARG:NH1	9:F:415:SER:O	2.43	0.52
11:F1:208:HIS:HB2	11:F2:89:ARG:HE	1.75	0.52
11:F1:244:ARG:HG3	11:F1:248:HIS:CE1	2.45	0.52
11:F2:295:THR:O	11:F2:298:LYS:HG2	2.10	0.52
11:F4:232:LEU:HD23	11:F4:235:ARG:NH2	2.25	0.52
11:F7:279:PHE:HA	11:F8:390:LYS:HE2	1.92	0.52
11:F7:302:ASP:HA	11:F7:305:ARG:NE	2.24	0.52
11:F9:201:ARG:O	11:F9:206:LEU:HB3	2.10	0.52
3:FD:11:GLN:HE21	39:FD:501:GTP:H3'	1.75	0.52
3:FD:199:THR:HB	3:FD:265:PHE:HA	1.92	0.52
4:FI:118:VAL:HA	4:FI:121:ARG:HG2	1.92	0.52
3:FJ:15:GLN:HG2	3:FJ:222:TYR:CE2	2.39	0.52
4:FK:182:VAL:HA	4:FK:185:TYR:HD2	1.75	0.52
3:FL:189:VAL:HA	3:FL:192:LEU:HD12	1.91	0.52
11:Fl:442:GLN:OE1	11:Fl:446:MET:HE1	2.10	0.52
12:G:94:THR:HG22	12:G:97:ARG:NH2	2.25	0.52
13:G2:217:LYS:HG3	13:G2:218:GLU:N	2.25	0.52
13:G2:511:TYR:HA	13:G2:514:LYS:HD2	1.91	0.52
14:G5:524:ASN:HD22	14:G5:726:SER:HB3	1.75	0.52
14:G6:467:GLU:HB2	14:G6:480:PHE:CE2	2.45	0.52
14:G6:506:GLU:HG2	14:G6:507:LEU:HD12	1.91	0.52
4:GA:139:HIS:HE1	4:GA:168:GLU:HB3	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:GA:269:LEU:O	4:GA:378:LEU:HA	2.10	0.52
4:GA:332:ILE:HG13	4:GA:336:LYS:NZ	2.25	0.52
4:GC:273:ALA:N	4:GC:377:MET:HE1	2.24	0.52
4:GC:329:ASN:OD1	4:GC:330:ALA:N	2.42	0.52
4:GE:11:GLN:HB2	4:GE:74:VAL:HG11	1.92	0.52
4:GE:26:LEU:HD13	4:GE:364:PRO:HD2	1.91	0.52
4:GE:171:ILE:HD12	4:GE:204:VAL:HG23	1.91	0.52
4:GG:11:GLN:HG3	39:GG:501:GTP:O1B	2.10	0.52
4:GG:70:LEU:CA	4:GG:95:GLY:HA3	2.40	0.52
4:GG:287:SER:OG	4:GG:290:GLU:OE1	2.27	0.52
3:GJ:375:GLN:HA	3:GJ:378:PHE:CZ	2.45	0.52
4:GK:285:GLN:HE22	4:GK:287:SER:HB3	1.74	0.52
4:GK:362:VAL:HA	4:GK:368:LEU:HD21	1.92	0.52
15:H5:246:ASP:O	15:H5:250:ASN:N	2.43	0.52
4:HA:281:ALA:HB3	4:HA:370:LYS:HZ3	1.75	0.52
3:HB:101:TRP:HB2	3:HB:184:ASN:HD22	1.73	0.52
4:HC:168:GLU:HB2	4:HC:201:ALA:HA	1.92	0.52
3:HD:130:LEU:HB2	3:HD:162:ARG:NH1	2.24	0.52
3:HD:153:SER:HB3	3:HD:191:GLN:NE2	2.24	0.52
3:HD:375:GLN:HA	3:HD:378:PHE:CZ	2.45	0.52
4:HE:320:ARG:CZ	4:HE:360:PRO:HA	2.40	0.52
4:HG:26:LEU:HD13	4:HG:364:PRO:HD2	1.92	0.52
4:HG:36:MET:HE3	4:HG:61:HIS:CE1	2.45	0.52
4:HG:346:TRP:HE1	3:HH:391:ARG:NH2	2.08	0.52
3:HJ:239:CYS:SG	3:HJ:316:VAL:HG11	2.50	0.52
3:HJ:269:GLY:N	3:HJ:367:PHE:O	2.42	0.52
3:HJ:380:ARG:O	3:HJ:384:GLN:HG2	2.09	0.52
4:HK:68:VAL:HA	4:HK:93:ILE:HB	1.91	0.52
4:IA:213:CYS:O	4:IA:218:ASP:N	2.43	0.52
4:IC:295:CYS:CB	4:IC:377:MET:HE3	2.38	0.52
4:IC:419:SER:HA	4:IC:422:ARG:HE	1.73	0.52
3:ID:46:ARG:HH22	4:IE:73:THR:HA	1.74	0.52
3:IF:322:SER:OG	3:IF:323:MET:SD	2.68	0.52
3:IJ:268:PRO:HD2	3:IJ:301:ALA:HB2	1.92	0.52
3:IJ:289:LEU:O	3:IJ:293:MET:N	2.42	0.52
3:IL:28:HIS:O	3:IL:43:GLN:NE2	2.42	0.52
4:IM:76:ASP:OD1	4:IM:79:ARG:NH1	2.43	0.52
4:IM:280:LYS:HD2	4:IM:283:HIS:CE1	2.45	0.52
4:JA:256:GLN:O	4:JA:260:VAL:HG12	2.09	0.52
3:JD:78:SER:HB3	38:a:42:ARG:HH21	1.75	0.52
3:JJ:46:ARG:HH12	4:JK:73:THR:HG23	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JJ:375:GLN:HA	3:JJ:378:PHE:CZ	2.44	0.52
4:JK:272:TYR:CZ	4:JK:274:PRO:HG2	2.44	0.52
4:JK:390:ARG:HA	4:JK:393:HIS:CE1	2.44	0.52
20:K:93:LEU:HD23	20:K:116:ALA:HB2	1.92	0.52
21:K2:206:LEU:HA	21:K2:209:MET:HG3	1.92	0.52
21:K2:211:ARG:NH1	21:K2:215:LYS:HB2	2.23	0.52
21:K2:375:ARG:O	21:K2:379:LYS:HG2	2.09	0.52
21:K2:463:LEU:HD12	21:K2:464:ARG:N	2.24	0.52
21:K3:218:GLU:HG3	31:R2:269:ALA:HB3	1.92	0.52
21:K3:409:LEU:HD12	21:K3:411:GLU:HG3	1.92	0.52
4:KA:120:ASP:O	4:KA:123:ARG:NH1	2.43	0.52
4:KA:204:VAL:HG22	4:KA:209:ILE:HD11	1.92	0.52
4:KA:207:GLU:HB2	4:KA:304:LYS:NZ	2.25	0.52
4:KA:326:LYS:HE3	3:KB:219:THR:HA	1.92	0.52
3:KD:111:GLU:HG2	3:KD:112:LEU:HD12	1.91	0.52
4:KE:154:MET:HE1	4:KE:197:HIS:HB2	1.92	0.52
4:KE:180:ALA:HB3	4:KE:183:GLU:HB2	1.92	0.52
3:KF:258:VAL:HB	4:KG:407:TRP:HZ2	1.75	0.52
3:KL:12:CYS:SG	39:KL:501:GTP:H5'	2.49	0.52
3:KL:106:TYR:HB2	3:KL:401:GLU:OE2	2.09	0.52
22:L2:80:ARG:NH1	4:LE:196:GLU:OE2	2.23	0.52
22:L2:88:VAL:HG13	4:LE:264:ARG:NH2	2.24	0.52
22:L2:194:GLU:HA	22:L2:197:LEU:HG	1.92	0.52
4:LC:234:ILE:O	4:LC:237:SER:OG	2.27	0.52
3:LD:46:ARG:HH12	4:LE:73:THR:HG23	1.75	0.52
3:LJ:240:LEU:HD13	3:LJ:248:ALA:HB1	1.91	0.52
4:LK:254:GLU:OE1	4:LK:254:GLU:N	2.40	0.52
3:LL:304:ASP:O	3:LL:307:HIS:ND1	2.39	0.52
23:M:145:HIS:O	23:M:153:ASN:ND2	2.39	0.52
4:MC:319:TYR:HB2	4:MC:355:ILE:HD13	1.92	0.52
4:MC:434:GLU:OE1	28:O1:48:HIS:NE2	2.43	0.52
3:MD:5:VAL:HG23	3:MD:130:LEU:HD21	1.91	0.52
4:ME:388:TRP:HB3	4:ME:425:LEU:HD11	1.92	0.52
3:MF:3:GLU:HG2	3:MF:130:LEU:HD23	1.92	0.52
3:MF:46:ARG:HH22	4:MG:73:THR:HA	1.74	0.52
3:MF:258:VAL:O	4:MG:407:TRP:NE1	2.41	0.52
3:MJ:176:SER:O	3:MJ:178:THR:N	2.43	0.52
3:ML:12:CYS:HB3	39:ML:501:GTP:C5'	2.40	0.52
4:MM:103:TYR:HB2	4:MM:186:ASN:HB2	1.92	0.52
3:NB:289:LEU:O	3:NB:293:MET:HG2	2.10	0.52
4:NC:51:THR:HG23	4:NC:52:PHE:CD2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:NC:254:GLU:OE1	4:NC:254:GLU:N	2.40	0.52
3:ND:172:SER:OG	3:ND:205:GLU:OE2	2.22	0.52
3:ND:375:GLN:HA	3:ND:378:PHE:CZ	2.45	0.52
4:NE:34:GLY:HA2	4:NE:86:LEU:HD21	1.91	0.52
3:NF:150:LEU:O	3:NF:153:SER:OG	2.23	0.52
3:NH:155:ILE:HA	3:NH:158:GLU:HB2	1.92	0.52
4:NI:269:LEU:N	4:NI:379:SER:O	2.28	0.52
3:NL:32:PRO:O	3:NL:83:GLN:NE2	2.34	0.52
3:NL:235:GLY:O	3:NL:238:THR:OG1	2.22	0.52
4:OA:236:SER:O	4:OA:243:ARG:NH2	2.35	0.52
3:OB:118:ASP:OD1	3:OB:121:ARG:NH1	2.43	0.52
3:OB:305:PRO:HB2	3:OB:310:TYR:HE1	1.75	0.52
4:OC:205:ASP:OD2	4:OC:304:LYS:NZ	2.41	0.52
4:OE:52:PHE:HZ	4:OE:239:THR:HB	1.75	0.52
3:OJ:289:LEU:O	3:OJ:293:MET:HG2	2.10	0.52
4:OK:15:GLN:OE1	4:OK:228:ASN:ND2	2.43	0.52
4:OK:308:ARG:HA	4:OK:342:GLN:HE22	1.75	0.52
3:OL:175:VAL:HG22	3:OL:177:ASP:H	1.75	0.52
27:P:65:PHE:O	27:P:69:MET:N	2.41	0.52
3:PB:324:LYS:HD2	4:PC:221:ARG:HA	1.90	0.52
4:PI:178:SER:OG	4:PI:180:ALA:O	2.28	0.52
3:PL:176:SER:O	3:PL:178:THR:N	2.43	0.52
3:PL:317:PHE:O	3:PL:354:CYS:N	2.30	0.52
4:QG:34:GLY:HA2	4:QG:86:LEU:HD21	1.91	0.52
3:QL:152:ILE:HD12	3:QL:155:ILE:HD11	1.91	0.52
4:QM:321:GLY:HA3	4:QM:372:GLN:O	2.10	0.52
3:RB:147:MET:HB2	3:RB:151:LEU:HD23	1.91	0.52
4:RE:208:ALA:N	4:RE:304:LYS:HZ1	2.02	0.52
3:RF:12:CYS:SG	3:RF:13:GLY:N	2.83	0.52
4:RG:414:GLU:HG2	4:RG:417:GLU:OE2	2.10	0.52
3:SD:350:LYS:HE3	4:SE:180:ALA:HA	1.91	0.52
4:SE:139:HIS:CD2	4:SE:170:ALA:HB2	2.45	0.52
3:SH:83:GLN:O	3:SH:86:ARG:NH2	2.43	0.52
4:SI:22:GLU:O	4:SI:26:LEU:HD23	2.09	0.52
4:SI:402:ARG:HH22	4:SI:406:HIS:HB3	1.75	0.52
3:SJ:239:CYS:SG	3:SJ:316:VAL:HG11	2.50	0.52
4:SK:371:VAL:HG11	4:SK:374:ALA:HB2	1.90	0.52
3:SL:401:GLU:OE1	3:SL:403:MET:HE3	2.10	0.52
3:TB:247:ASN:HB3	3:TB:252:LYS:HG2	1.91	0.52
4:TC:178:SER:OG	4:TC:180:ALA:O	2.27	0.52
4:TE:144:GLY:N	39:TE:501:GTP:O2B	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:TE:370:LYS:HE3	36:Y:165:GLN:HG2	1.90	0.52
4:TG:208:ALA:H	4:TG:304:LYS:NZ	2.08	0.52
4:TK:400:ALA:O	4:TK:402:ARG:NH1	2.43	0.52
4:TM:113:GLU:OE1	4:TM:113:GLU:N	2.43	0.52
4:UA:139:HIS:CD2	4:UA:170:ALA:HB2	2.45	0.52
4:UC:423:GLU:HA	4:UC:426:ALA:HB3	1.92	0.52
4:UG:271:THR:HB	4:UG:377:MET:HE3	1.92	0.52
3:UH:239:CYS:SG	3:UH:316:VAL:HG11	2.50	0.52
4:UI:273:ALA:N	4:UI:377:MET:HE1	2.24	0.52
3:UJ:292:GLN:O	3:UJ:298:ASN:ND2	2.42	0.52
3:UL:13:GLY:HA2	3:UL:16:ILE:HB	1.92	0.52
33:V:514:ILE:HG13	33:V:518:LYS:HE2	1.92	0.52
4:VA:89:PRO:HD2	4:WA:280:LYS:HZ3	1.74	0.52
4:VA:278:ALA:O	4:VA:370:LYS:NZ	2.43	0.52
3:VB:213:ARG:NH2	3:VB:297:LYS:HB3	2.25	0.52
3:VJ:250:LEU:O	3:VJ:254:ALA:N	2.29	0.52
3:VJ:324:LYS:NZ	4:VK:222:PRO:O	2.34	0.52
3:WB:324:LYS:HE2	4:WC:222:PRO:HD2	1.90	0.52
4:WC:3:GLU:CD	4:WC:131:GLY:H	2.17	0.52
4:WC:107:HIS:CD2	4:WC:152:LEU:HB2	2.45	0.52
4:WE:113:GLU:OE1	4:WE:113:GLU:N	2.41	0.52
4:WG:11:GLN:HG3	39:WG:501:GTP:O1B	2.10	0.52
4:WG:345:ASP:N	4:WG:345:ASP:OD1	2.43	0.52
3:WH:398:TYR:HB3	3:WH:403:MET:HB2	1.91	0.52
3:WJ:375:GLN:HA	3:WJ:378:PHE:CZ	2.44	0.52
4:WK:172:TYR:N	4:WK:204:VAL:O	2.32	0.52
3:WL:317:PHE:O	3:WL:354:CYS:N	2.39	0.52
34:XA:106:SER:HB2	34:XA:109:GLN:HE22	1.74	0.52
34:XB:170:ARG:NH2	34:XB:176:GLU:OE2	2.43	0.52
37:YI:55:HIS:HB2	37:YI:56:TYR:CD2	2.45	0.52
37:YK:64:ARG:HA	37:YK:67:ILE:HG12	1.92	0.52
37:YO:59:ASN:HB2	37:YO:62:HIS:CE1	2.45	0.52
1:A:51:VAL:O	1:A:54:GLN:NE2	2.42	0.52
1:A:127:LYS:HD3	1:B:467:VAL:HG13	1.92	0.52
1:A:167:ASP:O	1:A:171:LYS:NZ	2.41	0.52
2:A2:143:ILE:HA	2:A2:146:VAL:HG22	1.91	0.52
2:A3:43:ARG:NH2	5:B3:44:ILE:HG13	2.25	0.52
2:A3:149:LEU:HD21	17:I3:58:GLU:HG3	1.92	0.52
2:A4:172:GLU:O	2:A4:176:ARG:HG2	2.10	0.52
4:AC:311:LYS:NZ	4:AC:343:PHE:O	2.42	0.52
4:AC:397:LEU:O	4:AC:401:LYS:HG2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:188:ILE:HD11	4:AE:391:LEU:HD13	1.90	0.52
3:AH:28:HIS:ND1	3:AH:43:GLN:HB2	2.24	0.52
3:AH:52:ASN:OD1	3:AH:62:ARG:NH1	2.43	0.52
4:AI:50:ASN:OD1	4:AI:51:THR:N	2.42	0.52
4:AI:205:ASP:OD2	4:AI:304:LYS:NZ	2.40	0.52
4:AK:384:ILE:HB	4:AK:388:TRP:HZ3	1.75	0.52
4:AM:5:ILE:HD13	4:AM:64:ARG:HB3	1.91	0.52
1:B:309:THR:O	1:B:312:GLN:NE2	2.43	0.52
5:B1:100:GLU:OE2	5:B1:104:GLN:NE2	2.42	0.52
5:B2:130:ARG:HH22	5:B3:11:ARG:HG2	1.75	0.52
5:B2:363:LEU:HG	5:B2:367:PHE:CE2	2.45	0.52
3:BB:285:THR:O	3:BB:288:GLU:HG3	2.10	0.52
4:BC:79:ARG:HB3	15:H1:20:TYR:HE1	1.75	0.52
3:BH:406:MET:O	3:BH:409:THR:OG1	2.19	0.52
3:BJ:83:GLN:O	3:BJ:86:ARG:NH2	2.43	0.52
3:BL:282:ARG:NH2	3:BL:292:GLN:OE1	2.27	0.52
3:BL:361:LEU:HD11	3:BL:364:SER:HB3	1.91	0.52
3:BL:378:PHE:CD1	3:BL:419:VAL:HG22	2.44	0.52
7:C1:277:THR:H	7:C1:281:VAL:HG11	1.75	0.52
7:C6:294:VAL:HG11	10:E1:41:PRO:HA	1.91	0.52
7:C7:419:ARG:HH21	7:C7:420:LEU:HG	1.75	0.52
3:CB:12:CYS:SG	3:CB:13:GLY:N	2.82	0.52
3:CF:118:ASP:OD1	3:CF:121:ARG:NH1	2.43	0.52
3:CH:325:GLU:O	3:CH:329:GLN:HG2	2.10	0.52
4:CK:50:ASN:OD1	4:CK:51:THR:N	2.43	0.52
3:CL:32:PRO:O	3:CL:83:GLN:NE2	2.31	0.52
4:CM:163:LYS:O	4:CM:163:LYS:NZ	2.32	0.52
4:CM:255:PHE:O	4:CM:259:LEU:HB2	2.10	0.52
7:Cb:124:THR:O	7:Cb:128:ILE:HG12	2.10	0.52
6:D:119:PRO:HD3	6:D:177:VAL:HG22	1.91	0.52
6:D:346:PRO:HD2	6:D:362:ALA:HB2	1.91	0.52
8:D4:249:GLU:O	8:D5:370:ARG:NE	2.43	0.52
8:D4:250:SER:HA	8:D5:370:ARG:NE	2.25	0.52
8:D7:174:VAL:O	8:D7:178:LYS:HG3	2.09	0.52
3:DB:40:SER:O	3:DB:43:GLN:HG2	2.10	0.52
3:DD:222:TYR:HA	3:DD:225:LEU:HD13	1.92	0.52
4:DE:53:PHE:O	4:DE:64:ARG:NH1	2.43	0.52
4:DG:9:VAL:HA	4:DG:68:VAL:HG23	1.92	0.52
3:DH:176:SER:O	3:DH:178:THR:N	2.43	0.52
3:DJ:28:HIS:CD2	3:DJ:43:GLN:HB2	2.45	0.52
4:EA:406:HIS:HA	4:EA:409:VAL:HG22	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EB:235:GLY:O	3:EB:238:THR:OG1	2.24	0.52
3:EB:282:ARG:HE	3:EB:288:GLU:CD	2.18	0.52
4:EC:51:THR:HG23	4:EC:52:PHE:CD2	2.45	0.52
4:EC:255:PHE:HE1	4:EC:316:CYS:HG	1.58	0.52
4:EC:271:THR:HA	4:EC:302:MET:HE1	1.91	0.52
3:EF:4:ILE:HB	3:EF:50:TYR:HE1	1.75	0.52
3:EF:234:SER:O	3:EF:238:THR:HG23	2.10	0.52
3:EF:295:ASP:HB2	3:EF:298:ASN:HB2	1.92	0.52
3:EH:324:LYS:HE2	4:EI:222:PRO:CD	2.40	0.52
4:EI:272:TYR:HD2	4:EI:275:VAL:HG13	1.74	0.52
3:EL:12:CYS:SG	3:EL:13:GLY:N	2.83	0.52
11:F3:401:ARG:HH12	11:F8:449:SER:HB2	1.75	0.52
11:F5:140:ARG:NH2	11:Fa:147:SER:HB3	2.24	0.52
11:F6:295:THR:O	11:F6:298:LYS:HG2	2.10	0.52
4:FA:288:VAL:O	4:FA:292:THR:OG1	2.16	0.52
3:FH:206:ALA:O	3:FH:210:ILE:HG12	2.10	0.52
3:FH:317:PHE:HE2	3:FH:326:VAL:HG23	1.74	0.52
4:FI:272:TYR:HE1	4:FI:374:ALA:HB1	1.75	0.52
4:FK:70:LEU:HA	4:FK:95:GLY:HA3	1.91	0.52
4:FK:270:ALA:O	4:FK:271:THR:OG1	2.28	0.52
11:Fk:129:GLN:HA	11:Fk:132:HIS:CD2	2.45	0.52
12:G:75:PHE:HA	12:G:78:LEU:HD12	1.92	0.52
13:G1:391:GLU:N	13:G1:391:GLU:OE1	2.43	0.52
13:G3:207:ILE:HD12	13:G3:208:PRO:HD2	1.91	0.52
14:G4:465:VAL:HB	14:G4:480:PHE:HB2	1.92	0.52
14:G6:726:SER:OG	14:G6:727:PRO:HD2	2.10	0.52
4:GA:392:ASP:OD1	4:GA:393:HIS:N	2.43	0.52
3:GD:2:ARG:HA	3:GD:129:CYS:O	2.10	0.52
4:GE:166:LYS:N	4:GE:199:ASP:OD2	2.43	0.52
3:GF:4:ILE:HD11	3:GF:131:GLN:HB2	1.92	0.52
4:GG:32:PRO:O	4:GG:85:GLN:NE2	2.42	0.52
4:GG:167:LEU:HD13	4:GG:200:CYS:HB2	1.92	0.52
3:GH:316:VAL:HG22	3:GH:352:ALA:HB3	1.92	0.52
3:GH:390:ARG:O	3:GH:390:ARG:NH1	2.39	0.52
4:GI:104:ALA:O	4:GI:108:TYR:N	2.41	0.52
4:GK:22:GLU:O	4:GK:26:LEU:HD23	2.10	0.52
15:H2:24:TYR:H	15:H2:27:LEU:HD23	1.73	0.52
4:HA:50:ASN:OD1	4:HA:51:THR:N	2.43	0.52
3:HB:152:ILE:O	3:HB:156:ARG:HG3	2.10	0.52
3:HH:266:PHE:HB3	3:HH:368:ILE:HD11	1.92	0.52
4:HI:9:VAL:HA	4:HI:68:VAL:HG13	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HK:89:PRO:HB2	4:HK:90:GLU:OE1	2.10	0.52
4:HK:152:LEU:HD12	4:HK:153:LEU:HG	1.91	0.52
3:HL:152:ILE:O	3:HL:156:ARG:HG2	2.10	0.52
17:I3:48:TYR:CE2	17:I3:52:LEU:HG	2.44	0.52
3:IB:103:LYS:O	3:IB:108:GLU:N	2.30	0.52
4:IE:208:ALA:H	4:IE:304:LYS:NZ	2.08	0.52
3:IF:268:PRO:HD2	3:IF:301:ALA:HB2	1.92	0.52
3:IF:378:PHE:CD1	3:IF:419:VAL:HG22	2.45	0.52
4:IG:135:PHE:CD2	4:IG:157:LEU:HD21	2.45	0.52
4:IG:392:ASP:OD1	4:IG:393:HIS:N	2.43	0.52
4:II:142:GLY:HA2	4:II:183:GLU:HG2	1.92	0.52
4:II:341:ILE:O	4:II:341:ILE:HG13	2.10	0.52
3:IJ:235:GLY:O	3:IJ:238:THR:OG1	2.25	0.52
3:IJ:286:VAL:HG11	3:IJ:325:GLU:HB2	1.91	0.52
3:IJ:309:ARG:O	3:IJ:371:SER:OG	2.24	0.52
3:IJ:326:VAL:HG21	3:IJ:351:THR:HG21	1.92	0.52
4:IK:174:ALA:HB3	4:IK:177:VAL:O	2.10	0.52
3:IL:266:PHE:HD1	3:IL:370:ASN:ND2	2.08	0.52
3:JD:12:CYS:O	3:JD:16:ILE:HG12	2.10	0.52
3:JD:189:VAL:HA	3:JD:192:LEU:HD12	1.92	0.52
4:JE:329:ASN:OD1	4:JE:330:ALA:N	2.43	0.52
4:JG:50:ASN:OD1	4:JG:51:THR:N	2.42	0.52
4:JG:192:HIS:HA	4:JG:195:LEU:HD23	1.91	0.52
20:K:53:PRO:HA	20:K:123:MET:HA	1.92	0.52
21:K2:152:ARG:O	21:K2:156:ARG:NH1	2.43	0.52
21:K2:336:LEU:HD12	21:K2:339:LYS:HB2	1.91	0.52
21:K4:271:PRO:HD2	37:YS:160:ARG:HH22	1.74	0.52
21:K4:474:TYR:HE2	4:LK:339:ARG:HG3	1.75	0.52
4:KA:214:ARG:NH1	4:KA:215:ARG:HG3	2.25	0.52
4:KA:230:LEU:O	4:KA:234:ILE:HG12	2.10	0.52
4:KC:45:GLY:HA2	4:KC:49:PHE:HE1	1.75	0.52
4:KC:116:ASP:N	4:KC:116:ASP:OD1	2.40	0.52
3:KF:3:GLU:OE2	3:KF:127:CYS:HB2	2.10	0.52
4:KK:296:PHE:CD2	4:KK:335:ILE:HG21	2.45	0.52
3:KL:166:THR:OG1	3:KL:198:GLU:O	2.26	0.52
3:KL:380:ARG:O	3:KL:384:GLN:HG2	2.08	0.52
22:L4:51:PRO:HD3	3:LL:121:ARG:HH12	1.75	0.52
4:LA:256:GLN:HE22	3:LB:397:TRP:HE1	1.58	0.52
3:LF:234:SER:O	3:LF:238:THR:HG23	2.10	0.52
3:LF:302:ALA:HB1	3:LF:377:LEU:HD11	1.92	0.52
3:LH:114:ASP:OD1	3:LH:115:SER:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:LI:260:VAL:HG23	4:LI:265:ILE:O	2.09	0.52
4:LK:50:ASN:OD1	4:LK:51:THR:N	2.42	0.52
4:MC:287:SER:OG	4:MC:290:GLU:OE1	2.28	0.52
4:ME:66:VAL:HG22	4:ME:91:GLN:HG3	1.92	0.52
3:MF:324:LYS:NZ	4:MG:222:PRO:O	2.43	0.52
3:MH:39:ASP:OD1	3:MH:43:GLN:NE2	2.43	0.52
4:MI:196:GLU:OE1	4:MI:196:GLU:N	2.34	0.52
4:MI:272:TYR:CZ	4:MI:274:PRO:HG2	2.45	0.52
4:MI:405:VAL:O	4:MI:409:VAL:HG22	2.10	0.52
4:MK:139:HIS:CD2	4:MK:170:ALA:HB2	2.45	0.52
3:ML:250:LEU:O	3:ML:254:ALA:N	2.29	0.52
4:MM:411:GLU:OE2	4:MM:413:MET:HE1	2.09	0.52
4:NC:12:ALA:HB1	39:NC:501:GTP:C2	2.45	0.52
3:ND:285:THR:O	3:ND:288:GLU:HG3	2.10	0.52
4:NE:254:GLU:OE1	4:NE:254:GLU:N	2.38	0.52
3:NF:345:ILE:HD11	4:NG:181:VAL:HG11	1.92	0.52
3:NH:286:VAL:HG21	3:NH:325:GLU:HG3	1.91	0.52
4:NI:319:TYR:N	4:NI:354:GLY:O	2.42	0.52
4:NK:52:PHE:HZ	4:NK:239:THR:HB	1.75	0.52
4:NK:104:ALA:HA	4:NK:107:HIS:HB3	1.92	0.52
28:O1:42:ILE:HD12	28:O1:53:VAL:HG21	1.92	0.52
4:OC:30:ILE:HG13	4:OC:53:PHE:HE2	1.74	0.52
3:OD:238:THR:HG22	3:OD:241:ARG:HH21	1.75	0.52
3:OD:378:PHE:CD1	3:OD:419:VAL:HG22	2.45	0.52
4:OG:246:GLY:HA2	4:OG:357:TYR:HD2	1.75	0.52
4:OI:52:PHE:HZ	4:OI:239:THR:HB	1.75	0.52
3:OJ:286:VAL:HG21	3:OJ:325:GLU:HG3	1.92	0.52
4:OK:68:VAL:HG12	4:OK:93:ILE:HB	1.92	0.52
27:P:99:GLN:O	27:P:103:LYS:HG2	2.10	0.52
29:P3:397:LYS:HG2	29:P3:414:SER:H	1.75	0.52
4:PE:392:ASP:OD1	4:PE:393:HIS:N	2.43	0.52
3:PF:269:GLY:HA2	3:PF:300:MET:HE1	1.92	0.52
4:PI:254:GLU:OE1	4:PI:254:GLU:N	2.40	0.52
3:PJ:246:LEU:HD22	3:PJ:354:CYS:HA	1.91	0.52
3:PL:36:TYR:HE2	3:PL:44:LEU:HD13	1.75	0.52
30:Q2:1340:TRP:HZ2	30:Q2:1444:GLN:HB2	1.75	0.52
30:Q2:1366:LEU:HA	30:Q2:1369:LYS:HB2	1.92	0.52
30:Q2:1381:GLN:HB3	30:Q2:1385:LYS:HG2	1.92	0.52
4:QC:88:HIS:CE1	4:QC:121:ARG:HH22	2.26	0.52
4:QG:262:TYR:HE1	3:QH:393:ALA:HA	1.75	0.52
4:QK:316:CYS:N	4:QK:378:LEU:O	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QL:149:THR:HG21	3:QL:188:SER:HA	1.92	0.52
4:QM:104:ALA:O	4:QM:108:TYR:N	2.42	0.52
31:R3:117:THR:O	31:R3:148:ARG:HA	2.09	0.52
3:RF:198:GLU:HA	3:RF:266:PHE:HE2	1.74	0.52
3:RF:252:LYS:O	3:RF:256:ASN:ND2	2.43	0.52
3:RF:423:GLN:O	3:RF:427:ASP:N	2.32	0.52
4:RG:12:ALA:HB1	39:RG:501:GTP:N3	2.25	0.52
3:RH:172:SER:HB3	3:RH:175:VAL:O	2.10	0.52
3:RL:152:ILE:HD12	3:RL:155:ILE:HD11	1.91	0.52
4:RM:84:ARG:HA	4:RM:87:PHE:HD2	1.74	0.52
3:SB:176:SER:O	3:SB:178:THR:N	2.43	0.52
4:SC:154:MET:HE1	4:SC:197:HIS:HB2	1.91	0.52
4:SE:50:ASN:OD1	4:SE:51:THR:N	2.43	0.52
4:SE:234:ILE:HD11	4:SE:272:TYR:HB2	1.92	0.52
4:SG:154:MET:HE1	4:SG:197:HIS:HB2	1.92	0.52
39:SH:501:GTP:O3G	39:SH:501:GTP:O3'	2.20	0.52
3:SJ:217:LEU:HD11	3:SJ:220:PRO:HB3	1.92	0.52
3:SJ:406:MET:O	3:SJ:409:THR:OG1	2.20	0.52
4:SK:68:VAL:HG12	4:SK:93:ILE:HB	1.92	0.52
3:TB:250:LEU:HD13	3:TB:253:LEU:HD12	1.90	0.52
3:TB:295:ASP:HB2	3:TB:298:ASN:HB2	1.92	0.52
3:TB:375:GLN:HA	3:TB:378:PHE:CZ	2.44	0.52
4:TC:224:TYR:CE1	39:TC:501:GTP:C5	2.96	0.52
3:TD:374:ILE:HA	3:TD:377:LEU:HD13	1.91	0.52
4:TG:50:ASN:O	4:TG:64:ARG:NH1	2.42	0.52
4:TG:223:THR:OG1	4:TG:225:THR:OG1	2.21	0.52
4:TI:256:GLN:O	4:TI:260:VAL:HG12	2.10	0.52
4:TI:371:VAL:HG11	4:TI:374:ALA:HB2	1.92	0.52
3:TJ:141:GLY:HA3	39:TJ:501:GTP:H5"	1.92	0.52
3:TL:269:GLY:HA2	3:TL:300:MET:HE1	1.92	0.52
4:TM:139:HIS:CD2	4:TM:170:ALA:HB2	2.45	0.52
3:TN:262:ARG:CD	3:TN:421:GLU:HG3	2.40	0.52
33:U:422:LYS:O	33:U:426:GLU:HG2	2.10	0.52
4:UA:317:MET:SD	4:UA:317:MET:N	2.82	0.52
3:UD:239:CYS:SG	3:UD:316:VAL:HG11	2.50	0.52
3:UH:54:ALA:HB3	3:UH:58:LYS:HB3	1.92	0.52
3:UJ:40:SER:HB3	3:UJ:42:LEU:HD23	1.92	0.52
3:UJ:218:THR:OG1	3:UJ:219:THR:N	2.43	0.52
3:UL:58:LYS:HE2	3:VL:281:TYR:CE1	2.45	0.52
3:VB:3:GLU:HG2	3:VB:130:LEU:HD23	1.90	0.52
4:VE:33:ASP:OD1	4:VE:34:GLY:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:VE:119:LEU:HA	4:VE:122:ILE:HG22	1.91	0.52
3:VJ:375:GLN:HA	3:VJ:378:PHE:CZ	2.45	0.52
33:W:143:THR:HA	33:W:146:LYS:HG2	1.92	0.52
3:WB:12:CYS:SG	3:WB:13:GLY:N	2.83	0.52
3:WB:130:LEU:HB2	3:WB:162:ARG:HH11	1.75	0.52
4:WC:185:TYR:HA	4:WC:395:PHE:HE1	1.75	0.52
4:WC:272:TYR:CZ	4:WC:274:PRO:HG2	2.45	0.52
3:WD:290:THR:HG21	3:WD:329:GLN:HB3	1.90	0.52
4:WE:154:MET:HE1	4:WE:197:HIS:HB2	1.91	0.52
3:WH:2:ARG:HB3	3:WH:131:GLN:NE2	2.25	0.52
4:WK:287:SER:OG	4:WK:290:GLU:OE1	2.18	0.52
34:XB:34:ILE:O	34:XB:34:ILE:HG13	2.09	0.52
34:XB:59:ILE:HG22	34:XB:156:ILE:HB	1.90	0.52
34:XF:3:LYS:NZ	35:XM:62:ARG:HA	2.25	0.52
34:XF:164:ARG:NH2	34:XF:181:PHE:HA	2.25	0.52
34:XG:86:TYR:HA	34:XG:107:ASN:HD21	1.75	0.52
35:XH:129:VAL:HG12	35:XH:133:LEU:HD21	1.91	0.52
35:XL:60:TYR:CE2	35:XL:107:TYR:HD1	2.27	0.52
35:XM:184:PHE:HA	35:XM:187:MET:HG2	1.92	0.52
37:YF:136:GLY:O	37:YF:140:LEU:N	2.42	0.52
37:YJ:158:LEU:HG	37:YJ:162:VAL:HB	1.91	0.52
37:YM:155:SER:HA	37:YM:158:LEU:HG	1.92	0.52
37:YU:27:ALA:O	37:YU:31:HIS:ND1	2.43	0.52
37:YW:136:GLY:O	37:YW:140:LEU:N	2.41	0.52
2:A3:18:ILE:O	2:A3:21:LYS:HG3	2.10	0.51
3:AB:273:LEU:H	3:AB:292:GLN:HE22	1.58	0.51
3:AB:309:ARG:O	3:AB:371:SER:OG	2.25	0.51
3:AB:406:MET:O	3:AB:409:THR:OG1	2.21	0.51
3:AD:13:GLY:HA2	3:AD:16:ILE:HB	1.91	0.51
3:AF:6:HIS:HD1	3:AF:63:ALA:HB1	1.75	0.51
3:AF:256:ASN:HB3	3:AF:350:LYS:HG3	1.91	0.51
4:AG:208:ALA:H	4:AG:304:LYS:NZ	2.07	0.51
4:AI:260:VAL:HG23	4:AI:265:ILE:O	2.10	0.51
3:AJ:39:ASP:OD1	3:AJ:43:GLN:NE2	2.42	0.51
3:AJ:184:ASN:HA	3:AJ:187:LEU:HD12	1.91	0.51
3:AL:304:ASP:O	3:AL:307:HIS:ND1	2.41	0.51
4:AM:272:TYR:CZ	4:AM:274:PRO:HG2	2.45	0.51
5:B1:315:HIS:ND1	5:B2:205:PRO:HG2	2.25	0.51
5:B7:204:ASN:OD1	5:B7:206:THR:OG1	2.26	0.51
4:BC:271:THR:HB	4:BC:377:MET:HE3	1.92	0.51
4:BC:287:SER:OG	4:BC:290:GLU:OE1	2.27	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BD:380:ARG:O	3:BD:384:GLN:HG2	2.10	0.51
4:BE:76:ASP:HA	4:BE:79:ARG:HH21	1.75	0.51
4:BG:213:CYS:O	4:BG:218:ASP:N	2.44	0.51
3:BH:109:GLY:O	3:BH:113:VAL:HG13	2.10	0.51
3:BJ:70:PRO:HA	3:BJ:73:MET:HE3	1.92	0.51
3:BL:148:GLY:O	3:BL:152:ILE:HG12	2.11	0.51
6:C:71:TYR:HB3	6:C:74:LEU:HG	1.92	0.51
6:C:240:PHE:O	6:C:243:SER:OG	2.23	0.51
7:C2:389:LYS:NZ	7:C2:430:THR:HG22	2.26	0.51
7:C4:126:ARG:NH1	7:C4:130:ASP:OD2	2.42	0.51
7:C4:387:LYS:O	7:C4:390:SER:OG	2.26	0.51
4:CC:93:ILE:HG13	4:CC:118:VAL:HG12	1.92	0.51
3:CD:6:HIS:HD2	3:CD:134:GLN:HG2	1.75	0.51
3:CD:48:ASN:HA	3:CD:51:TYR:O	2.10	0.51
3:CF:332:ASN:O	3:CF:336:LYS:N	2.42	0.51
4:CI:206:ASN:HA	4:CI:209:ILE:HD12	1.92	0.51
3:CL:150:LEU:O	3:CL:153:SER:OG	2.22	0.51
4:CM:264:ARG:O	4:CM:266:HIS:ND1	2.43	0.51
7:Cb:149:ARG:HE	7:Cb:153:LEU:HD21	1.75	0.51
7:Cb:275:ARG:NH1	7:Cb:276:ASN:O	2.42	0.51
7:Cc:262:GLN:HA	7:Cc:265:LEU:HD12	1.93	0.51
8:D4:233:ASN:HB3	13:G3:51:ARG:HH12	1.75	0.51
8:D4:397:ASP:OD1	8:D4:398:ALA:N	2.42	0.51
8:D5:337:ALA:HA	8:D5:340:LYS:HE2	1.91	0.51
8:D7:368:LEU:HD23	8:D7:370:ARG:NE	2.25	0.51
8:D9:165:PRO:HG2	8:D9:418:VAL:HG11	1.91	0.51
3:DB:83:GLN:O	3:DB:86:ARG:NH2	2.43	0.51
3:DB:172:SER:HB3	3:DB:175:VAL:O	2.10	0.51
3:DF:247:ASN:HB3	3:DF:252:LYS:HG2	1.91	0.51
3:DH:12:CYS:HA	39:DH:501:GTP:HN22	1.75	0.51
3:DJ:309:ARG:O	3:DJ:371:SER:OG	2.24	0.51
4:DK:287:SER:OG	4:DK:290:GLU:OE1	2.24	0.51
3:DL:19:LYS:NZ	3:DL:223:GLY:O	2.42	0.51
10:E1:10:ARG:HA	10:E1:142:ARG:NH2	2.25	0.51
4:EA:301:GLN:OE1	4:EA:301:GLN:N	2.43	0.51
4:EG:118:VAL:HA	4:EG:121:ARG:HG2	1.91	0.51
4:EK:208:ALA:N	4:EK:304:LYS:HZ1	2.07	0.51
11:F1:401:ARG:NH1	11:F6:449:SER:O	2.40	0.51
11:F2:156:LEU:HB2	11:F2:254:ILE:HD13	1.91	0.51
11:F8:210:ASN:HA	11:F8:213:LYS:HE3	1.92	0.51
11:F8:443:LEU:O	11:F8:447:THR:HG23	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:F9:367:GLU:O	11:F9:370:GLN:HG3	2.10	0.51
4:FE:50:ASN:OD1	4:FE:51:THR:N	2.43	0.51
4:FI:392:ASP:OD1	4:FI:393:HIS:N	2.43	0.51
3:FL:415:MET:O	3:FL:419:VAL:HG23	2.10	0.51
12:G:47:TYR:CD1	4:KK:337:THR:HB	2.45	0.51
12:G:201:PHE:HA	12:G:204:LEU:HG	1.92	0.51
14:G5:69:PRO:O	14:G5:73:ALA:N	2.30	0.51
4:GA:116:ASP:OD1	4:GA:117:LEU:N	2.40	0.51
3:GB:421:GLU:HA	3:GB:424:GLN:HB3	1.92	0.51
4:GC:20:CYS:O	4:GC:24:TYR:N	2.38	0.51
4:GE:141:PHE:HB2	4:GE:173:PRO:HD3	1.92	0.51
4:GE:208:ALA:N	4:GE:304:LYS:HZ1	2.08	0.51
4:GG:306:ASP:HB3	4:GG:309:HIS:ND1	2.25	0.51
3:GH:295:ASP:HB2	3:GH:298:ASN:HB2	1.92	0.51
3:GL:139:LEU:HD21	3:GL:170:VAL:HG22	1.91	0.51
4:HA:10:GLY:O	4:HA:13:GLY:N	2.42	0.51
4:HA:154:MET:HE1	4:HA:197:HIS:HB2	1.91	0.51
4:HA:224:TYR:HA	4:HA:227:LEU:HB2	1.92	0.51
4:HA:423:GLU:HA	4:HA:426:ALA:HB3	1.90	0.51
4:HC:229:ARG:NH2	4:HC:367:ASP:HB3	2.25	0.51
3:HF:65:LEU:HD21	3:HF:73:MET:HG2	1.92	0.51
3:HF:324:LYS:HE3	4:HG:210:TYR:CE2	2.44	0.51
4:HG:288:VAL:HG21	4:HG:328:VAL:HG22	1.92	0.51
3:HH:3:GLU:OE2	3:HH:129:CYS:N	2.43	0.51
3:HH:304:ASP:O	3:HH:307:HIS:ND1	2.43	0.51
4:HI:229:ARG:NH1	4:HI:366:GLY:HA2	2.25	0.51
4:HK:212:ILE:HA	4:HK:215:ARG:HG2	1.91	0.51
4:HK:224:TYR:HA	4:HK:227:LEU:HB2	1.92	0.51
3:HL:309:ARG:NH2	3:HL:426:GLN:O	2.43	0.51
4:IC:287:SER:N	4:IC:290:GLU:OE2	2.43	0.51
3:ID:142:GLY:N	39:ID:501:GTP:O3B	2.42	0.51
4:IE:113:GLU:N	4:IE:113:GLU:OE1	2.43	0.51
4:IE:320:ARG:HD3	4:IE:360:PRO:HG3	1.92	0.51
3:IF:406:MET:O	3:IF:409:THR:OG1	2.23	0.51
4:IM:154:MET:HE1	4:IM:197:HIS:HB2	1.92	0.51
3:JB:2:ARG:HA	3:JB:129:CYS:O	2.11	0.51
3:JB:19:LYS:NZ	3:JB:223:GLY:O	2.42	0.51
4:JG:113:GLU:OE1	4:JG:113:GLU:N	2.43	0.51
3:JH:276:ARG:NH2	20:K:24:GLU:OE2	2.28	0.51
3:JH:380:ARG:O	3:JH:384:GLN:HG2	2.10	0.51
4:JK:161:TYR:O	4:JK:166:LYS:NZ	2.33	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:JK:363:VAL:H	4:JK:368:LEU:HD21	1.75	0.51
21:K4:375:ARG:O	21:K4:379:LYS:HG2	2.10	0.51
21:K4:483:ASP:N	21:K4:483:ASP:OD1	2.41	0.51
3:KD:31:ASP:OD2	3:KD:35:THR:OG1	2.24	0.51
4:KE:256:GLN:O	4:KE:260:VAL:HG12	2.10	0.51
4:KI:75:VAL:HG22	4:KI:79:ARG:HH21	1.75	0.51
3:KJ:273:LEU:H	3:KJ:292:GLN:HE22	1.57	0.51
3:KL:11:GLN:HG3	39:KL:501:GTP:PA	2.49	0.51
3:KL:176:SER:O	3:KL:178:THR:N	2.43	0.51
22:L1:88:VAL:O	3:LB:392:LYS:NZ	2.33	0.51
22:L3:132:ASP:OD1	22:L3:133:LYS:N	2.41	0.51
3:LB:70:PRO:HA	3:LB:73:MET:HE2	1.91	0.51
3:LB:262:ARG:NH2	3:LB:425:TYR:OH	2.44	0.51
4:LC:172:TYR:N	4:LC:204:VAL:O	2.33	0.51
4:LC:271:THR:HB	4:LC:377:MET:HB2	1.91	0.51
3:LF:6:HIS:HB3	3:LF:21:TRP:HZ2	1.75	0.51
3:MB:215:LEU:HD11	3:MB:228:LEU:HD11	1.92	0.51
4:ME:316:CYS:N	4:ME:378:LEU:O	2.35	0.51
4:MG:72:PRO:HA	4:MG:75:VAL:HG12	1.92	0.51
4:MG:324:VAL:HG11	3:MH:219:THR:HB	1.92	0.51
3:MH:266:PHE:HB3	3:MH:368:ILE:HD11	1.92	0.51
3:MH:309:ARG:HH22	3:MH:344:TRP:HZ3	1.57	0.51
3:MJ:3:GLU:OE2	3:MJ:127:CYS:HB3	2.09	0.51
3:ML:16:ILE:HG12	3:ML:226:ASN:ND2	2.25	0.51
3:ML:222:TYR:HA	3:ML:225:LEU:HD13	1.93	0.51
4:MM:67:PHE:O	4:MM:93:ILE:N	2.43	0.51
26:N4:78:LEU:HG	26:N4:96:GLN:HE21	1.75	0.51
3:ND:176:SER:O	3:ND:178:THR:N	2.43	0.51
4:NG:72:PRO:HA	4:NG:75:VAL:HG12	1.91	0.51
4:NG:271:THR:HB	4:NG:377:MET:HB2	1.90	0.51
4:NG:316:CYS:N	4:NG:378:LEU:O	2.42	0.51
4:NI:50:ASN:OD1	4:NI:51:THR:N	2.43	0.51
4:OA:33:ASP:OD1	4:OA:34:GLY:N	2.42	0.51
4:OA:119:LEU:HD23	4:OA:122:ILE:HD11	1.92	0.51
3:OB:101:TRP:HB2	3:OB:184:ASN:HD22	1.75	0.51
3:OB:378:PHE:CD1	3:OB:419:VAL:HG22	2.45	0.51
3:OD:58:LYS:HE2	3:PD:281:TYR:HE1	1.75	0.51
3:OF:346:PRO:HG2	4:OG:394:LYS:NZ	2.25	0.51
3:OH:155:ILE:HA	3:OH:158:GLU:HB2	1.92	0.51
3:OH:322:SER:OG	3:OH:323:MET:SD	2.68	0.51
3:OL:73:MET:HE1	3:OL:92:PHE:CG	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:OL:322:SER:N	3:OL:325:GLU:OE2	2.36	0.51
29:P2:164:VAL:HG23	29:P2:176:THR:HG22	1.92	0.51
29:P3:47:VAL:HB	29:P3:60:LEU:HB2	1.91	0.51
29:P3:243:GLY:HA3	29:P3:281:TYR:CD2	2.45	0.51
4:PA:83:TYR:HB3	4:PA:86:LEU:HD12	1.92	0.51
4:PE:208:ALA:H	4:PE:304:LYS:HZ1	1.57	0.51
4:PG:319:TYR:HE2	4:PG:328:VAL:HG13	1.74	0.51
3:PH:268:PRO:HD2	3:PH:301:ALA:HB2	1.91	0.51
3:PJ:3:GLU:OE2	3:PJ:127:CYS:HB3	2.09	0.51
4:PK:30:ILE:HG13	4:PK:53:PHE:HE2	1.74	0.51
4:PK:185:TYR:CZ	4:PK:398:MET:HE1	2.45	0.51
3:QD:19:LYS:NZ	3:QD:223:GLY:O	2.40	0.51
3:QD:376:GLU:HA	3:QD:379:LYS:HG2	1.92	0.51
4:QG:70:LEU:HG	4:QG:149:PHE:CZ	2.45	0.51
3:QH:60:VAL:HG23	3:QH:86:ARG:HH11	1.76	0.51
3:QJ:198:GLU:HA	3:QJ:266:PHE:HE2	1.75	0.51
3:QJ:282:ARG:HE	3:QJ:288:GLU:CD	2.17	0.51
4:QK:392:ASP:OD1	4:QK:393:HIS:N	2.43	0.51
3:QL:141:GLY:HA3	39:QL:501:GTP:H5”	1.92	0.51
3:QL:239:CYS:SG	3:QL:316:VAL:HG11	2.50	0.51
4:RC:160:ASP:OD1	4:RC:161:TYR:N	2.43	0.51
3:RD:6:HIS:HD2	3:RD:134:GLN:HG2	1.76	0.51
3:RF:206:ALA:O	3:RF:210:ILE:HG12	2.10	0.51
3:RH:410:GLU:HA	3:RH:413:SER:HB3	1.91	0.51
4:RK:46:ASP:OD1	4:RK:50:ASN:ND2	2.39	0.51
4:RK:272:TYR:CZ	4:RK:274:PRO:HG2	2.45	0.51
3:RL:258:VAL:HB	4:RM:407:TRP:HZ2	1.75	0.51
3:RL:290:THR:HG21	3:RL:329:GLN:HB3	1.92	0.51
4:RM:185:TYR:HA	4:RM:395:PHE:HE1	1.75	0.51
4:RM:319:TYR:HD2	4:RM:323:VAL:HG11	1.75	0.51
3:SL:252:LYS:O	3:SL:256:ASN:ND2	2.43	0.51
3:SL:357:PRO:HB3	3:SL:362:LYS:HA	1.92	0.51
4:SM:171:ILE:HD12	4:SM:204:VAL:HG13	1.92	0.51
3:TD:317:PHE:O	3:TD:354:CYS:N	2.36	0.51
4:TE:220:GLU:O	4:TE:221:ARG:NE	2.40	0.51
4:TG:260:VAL:O	3:TH:397:TRP:HH2	1.92	0.51
4:TI:205:ASP:OD2	4:TI:304:LYS:NZ	2.34	0.51
4:TI:262:TYR:OH	3:TJ:391:ARG:O	2.27	0.51
3:UB:174:LYS:HG3	3:UB:175:VAL:HG12	1.92	0.51
4:UC:12:ALA:HB2	39:UC:501:GTP:H5”	1.92	0.51
3:UF:101:TRP:HB2	3:UF:184:ASN:HD22	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UF:286:VAL:HG21	3:UF:325:GLU:HG3	1.91	0.51
3:UH:4:ILE:HB	3:UH:50:TYR:CE1	2.45	0.51
3:UJ:211:CYS:HA	3:UJ:215:LEU:HB2	1.92	0.51
3:UJ:239:CYS:SG	3:UJ:248:ALA:HA	2.50	0.51
4:UK:208:ALA:H	4:UK:304:LYS:NZ	2.08	0.51
3:UL:3:GLU:HG2	3:UL:130:LEU:HD23	1.91	0.51
3:UL:11:GLN:HE21	39:UL:501:GTP:H3'	1.74	0.51
4:VA:139:HIS:CD2	4:VA:170:ALA:HB2	2.45	0.51
4:VC:214:ARG:NH1	4:VC:215:ARG:HG3	2.25	0.51
3:VF:152:ILE:HD12	3:VF:195:ASN:HB2	1.92	0.51
3:VJ:385:PHE:HZ	3:VJ:408:PHE:HB3	1.75	0.51
3:VL:11:GLN:HG3	39:VL:501:GTP:PA	2.50	0.51
33:W:395:GLN:HA	33:W:398:ALA:HB3	1.90	0.51
3:WB:415:MET:O	3:WB:419:VAL:HG23	2.11	0.51
4:WC:206:ASN:HA	4:WC:209:ILE:HD12	1.91	0.51
3:WD:7:LEU:HD13	3:WD:64:VAL:HB	1.91	0.51
3:WF:81:PHE:O	3:WF:84:ILE:HG22	2.10	0.51
3:WF:309:ARG:H	3:WF:372:THR:HG1	1.53	0.51
3:WJ:269:GLY:O	3:WJ:367:PHE:N	2.35	0.51
3:WL:250:LEU:HD13	3:WL:253:LEU:HD12	1.93	0.51
34:XD:168:SER:HB2	34:XD:172:TYR:CD2	2.45	0.51
34:XF:79:ILE:HG13	34:XF:131:GLN:OE1	2.11	0.51
35:XM:176:GLN:OE1	35:XM:176:GLN:N	2.43	0.51
37:YD:4:VAL:HG21	37:YD:82:HIS:ND1	2.25	0.51
37:YH:110:LEU:HB3	37:YH:140:LEU:HD22	1.91	0.51
37:YJ:18:PHE:O	37:YJ:22:GLN:N	2.42	0.51
37:YL:26:ILE:O	37:YL:30:GLU:N	2.40	0.51
36:Z:453:LEU:O	36:Z:457:LEU:HG	2.09	0.51
2:A1:118:TYR:O	2:A1:121:LYS:HG2	2.11	0.51
4:AC:362:VAL:HA	4:AC:368:LEU:HD11	1.91	0.51
4:AG:427:ALA:HB1	34:XD:102:ARG:HH22	1.76	0.51
3:AJ:415:MET:O	3:AJ:419:VAL:HG23	2.10	0.51
4:AM:220:GLU:O	4:AM:221:ARG:NE	2.41	0.51
5:B4:391:MET:HA	5:B4:394:ARG:HE	1.75	0.51
5:B8:73:ARG:O	5:B8:77:THR:HG23	2.10	0.51
5:B8:364:ASP:O	5:B8:368:LYS:HG2	2.10	0.51
3:BB:170:VAL:N	3:BB:202:ILE:O	2.39	0.51
3:BB:350:LYS:HE3	4:BC:180:ALA:HA	1.91	0.51
3:BB:415:MET:O	3:BB:419:VAL:HG23	2.10	0.51
4:BC:116:ASP:N	4:BC:116:ASP:OD1	2.43	0.51
4:BE:104:ALA:HB1	4:BE:413:MET:HE3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BF:170:VAL:N	3:BF:202:ILE:O	2.32	0.51
6:C:130:GLU:HG2	6:C:274:GLY:HA3	1.92	0.51
6:C:340:PHE:HA	6:C:343:PHE:HB2	1.90	0.51
7:C1:121:ARG:NH2	7:C2:374:GLN:HG3	2.26	0.51
7:C2:284:PHE:CE1	7:C3:397:GLN:HG2	2.44	0.51
7:C7:94:TYR:HB2	7:C8:211:VAL:HG22	1.92	0.51
7:C8:174:LEU:O	7:C8:178:LYS:HG2	2.10	0.51
3:CB:374:ILE:HG23	3:CB:377:LEU:HD12	1.91	0.51
4:CC:272:TYR:HE1	4:CC:374:ALA:HB1	1.76	0.51
3:CD:11:GLN:HG3	39:CD:501:GTP:PA	2.50	0.51
3:CD:217:LEU:HD13	14:G4:299:THR:HG21	1.92	0.51
4:CE:72:PRO:HA	4:CE:75:VAL:HG12	1.92	0.51
4:CE:216:ASN:HD21	4:CE:275:VAL:HG23	1.75	0.51
4:CG:371:VAL:HG11	4:CG:374:ALA:HB2	1.92	0.51
3:CH:46:ARG:HB2	3:CH:241:ARG:HG3	1.91	0.51
4:CI:287:SER:OG	4:CI:290:GLU:OE1	2.27	0.51
3:CL:9:ALA:HB3	3:CL:137:HIS:HB3	1.93	0.51
3:CL:100:ASN:HB3	3:CL:103:LYS:HB2	1.91	0.51
7:Cb:390:SER:O	7:Cb:393:LEU:HG	2.11	0.51
7:Cb:430:THR:HG23	7:Cc:131:LYS:HZ2	1.76	0.51
6:D:111:GLU:HG3	6:D:112:LYS:H	1.75	0.51
8:D2:197:ALA:O	8:D2:201:ILE:HG12	2.10	0.51
8:D4:291:GLU:O	8:D4:295:LEU:HG	2.10	0.51
8:D8:113:TRP:HA	8:D8:116:GLU:CD	2.36	0.51
8:D8:266:LEU:O	8:D8:270:ARG:HG3	2.10	0.51
3:DB:230:SER:HA	3:DB:233:MET:HG2	1.92	0.51
4:DC:371:VAL:HG11	4:DC:374:ALA:HB2	1.92	0.51
4:DE:67:PHE:HB2	4:DE:92:LEU:HD13	1.91	0.51
4:DE:75:VAL:HG22	4:DE:79:ARG:HH21	1.75	0.51
4:DE:316:CYS:N	4:DE:378:LEU:O	2.26	0.51
4:DG:22:GLU:HG2	4:DG:83:TYR:HE2	1.75	0.51
3:DH:2:ARG:HA	3:DH:129:CYS:O	2.10	0.51
4:DI:254:GLU:OE1	4:DI:254:GLU:N	2.41	0.51
4:DK:214:ARG:NH1	4:DK:215:ARG:HG3	2.25	0.51
3:DL:73:MET:HA	3:DL:76:VAL:HG22	1.90	0.51
8:Da:62:ALA:HA	11:Fh:380:ARG:CZ	2.40	0.51
4:EA:154:MET:HE2	4:EA:194:THR:HG22	1.92	0.51
4:EC:54:SER:N	4:EC:62:VAL:O	2.42	0.51
4:EE:331:ALA:O	4:EE:334:THR:OG1	2.24	0.51
3:EF:19:LYS:NZ	3:EF:223:GLY:O	2.44	0.51
3:EH:269:GLY:HA2	3:EH:300:MET:HE1	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EH:363:MET:HE3	3:EH:363:MET:HA	1.91	0.51
3:EJ:330:MET:SD	3:EJ:349:VAL:HG21	2.50	0.51
4:EK:68:VAL:HA	4:EK:93:ILE:HB	1.91	0.51
11:F3:173:LEU:HD13	11:F3:318:ARG:HG3	1.92	0.51
11:F3:388:PRO:HA	11:F3:391:MET:HE3	1.91	0.51
11:F3:401:ARG:HH22	11:F8:450:ARG:HA	1.75	0.51
11:F5:301:ASN:HB3	11:F5:305:ARG:HH21	1.74	0.51
11:F6:137:GLY:O	11:F6:140:ARG:HG2	2.09	0.51
11:F7:283:VAL:HG12	11:F7:286:PHE:HB2	1.91	0.51
11:F8:210:ASN:OD1	11:F8:346:ARG:NH2	2.42	0.51
4:FA:69:ASP:OD1	4:FA:70:LEU:N	2.42	0.51
4:FA:117:LEU:O	4:FA:121:ARG:HG2	2.10	0.51
3:FB:6:HIS:NE2	3:FB:8:GLN:OE1	2.42	0.51
3:FB:7:LEU:HD13	3:FB:64:VAL:HB	1.91	0.51
3:FB:250:LEU:HD13	3:FB:253:LEU:HD12	1.92	0.51
3:FD:323:MET:SD	3:FD:323:MET:N	2.83	0.51
3:FD:385:PHE:HZ	3:FD:408:PHE:HB3	1.76	0.51
3:FF:5:VAL:HG23	3:FF:130:LEU:HD11	1.92	0.51
3:FH:292:GLN:O	3:FH:298:ASN:ND2	2.36	0.51
4:FI:49:PHE:O	4:FI:53:PHE:N	2.43	0.51
3:FJ:183:TYR:OH	3:FJ:393:ALA:O	2.23	0.51
3:FL:11:GLN:HE21	39:FL:501:GTP:H3'	1.75	0.51
11:Fc:123:ILE:O	11:Fc:127:LYS:HG2	2.10	0.51
11:Fj:228:GLN:HA	11:Fj:231:LYS:HD2	1.91	0.51
11:Fk:130:LEU:HA	11:Fk:133:GLN:HB2	1.92	0.51
14:G4:584:ASP:HA	14:G4:587:MET:HE2	1.90	0.51
14:G5:30:ASN:ND2	14:G5:32:VAL:HG22	2.21	0.51
14:G6:538:ASP:N	14:G6:538:ASP:OD1	2.43	0.51
4:GA:166:LYS:N	4:GA:199:ASP:OD2	2.43	0.51
4:GA:261:PRO:HA	3:GB:394:PHE:HE1	1.73	0.51
4:GC:166:LYS:HB3	4:GC:168:GLU:OE2	2.10	0.51
4:GC:203:MET:N	4:GC:203:MET:SD	2.83	0.51
3:GD:206:ALA:O	3:GD:210:ILE:HG12	2.10	0.51
4:GE:423:GLU:O	4:GE:427:ALA:N	2.33	0.51
3:GF:306:ARG:O	3:GF:306:ARG:NE	2.40	0.51
4:GI:3:GLU:OE2	4:GI:130:THR:N	2.34	0.51
3:GJ:117:LEU:HD11	3:GJ:154:LYS:HD2	1.92	0.51
4:GK:12:ALA:HB1	39:GK:501:GTP:C2	2.45	0.51
15:H6:18:PRO:HB3	15:H6:35:TYR:CE2	2.45	0.51
3:HB:60:VAL:HG23	3:HB:86:ARG:HH11	1.75	0.51
3:HB:83:GLN:O	3:HB:86:ARG:NH2	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HE:216:ASN:OD1	4:HE:217:LEU:N	2.43	0.51
3:HJ:262:ARG:NE	3:HJ:421:GLU:OE2	2.33	0.51
4:HK:386:GLU:HA	4:HK:389:ALA:HB3	1.92	0.51
3:HL:102:ALA:O	3:HL:106:TYR:N	2.37	0.51
3:ID:12:CYS:SG	39:ID:501:GTP:H5'	2.50	0.51
3:ID:380:ARG:O	3:ID:384:GLN:HG2	2.10	0.51
3:IH:216:LYS:HB2	3:IH:276:ARG:NH1	2.26	0.51
3:IJ:175:VAL:HG22	3:IJ:177:ASP:H	1.76	0.51
19:J2:92:HIS:HA	19:J2:95:GLU:CD	2.36	0.51
3:JB:234:SER:O	3:JB:238:THR:HG23	2.10	0.51
3:JD:309:ARG:N	3:JD:372:THR:OG1	2.32	0.51
4:JE:12:ALA:HB1	39:JE:501:GTP:N3	2.24	0.51
3:JF:214:THR:HG21	3:JF:273:LEU:HB3	1.93	0.51
3:JF:235:GLY:O	3:JF:238:THR:OG1	2.23	0.51
4:JG:254:GLU:OE1	4:JG:254:GLU:N	2.40	0.51
3:JJ:217:LEU:HD11	3:JJ:220:PRO:HB3	1.91	0.51
21:K2:185:ARG:NE	21:K2:189:GLU:HG3	2.25	0.51
21:K2:235:ASP:OD1	21:K2:236:PHE:N	2.43	0.51
4:KC:141:PHE:HB2	4:KC:173:PRO:HD3	1.92	0.51
3:KD:247:ASN:HB3	3:KD:252:LYS:HG2	1.92	0.51
4:KE:192:HIS:HA	4:KE:195:LEU:HD23	1.91	0.51
4:KE:260:VAL:O	3:KF:397:TRP:HH2	1.93	0.51
3:KF:81:PHE:O	3:KF:84:ILE:HG22	2.09	0.51
3:KF:328:GLU:OE1	3:KF:332:ASN:ND2	2.43	0.51
4:KG:263:PRO:HD3	3:KH:396:HIS:CD2	2.45	0.51
4:KG:271:THR:HB	4:KG:377:MET:HB3	1.92	0.51
4:KI:141:PHE:HB2	4:KI:173:PRO:HD3	1.91	0.51
3:KJ:261:PRO:O	3:KJ:264:HIS:NE2	2.42	0.51
20:L:72:ILE:HG12	20:L:128:PHE:CD2	2.45	0.51
22:L1:128:LYS:HE2	4:MC:214:ARG:HG2	1.92	0.51
22:L2:124:ILE:HD12	22:L2:135:ASP:HA	1.92	0.51
22:L3:128:LYS:HZ1	4:MK:214:ARG:NH1	2.09	0.51
4:LE:167:LEU:HD13	4:LE:200:CYS:HB2	1.92	0.51
3:LF:31:ASP:OD2	3:LF:35:THR:OG1	2.25	0.51
3:LF:285:THR:O	3:LF:288:GLU:HG3	2.09	0.51
3:LF:289:LEU:O	3:LF:293:MET:N	2.38	0.51
3:LJ:41:ASP:N	3:LJ:41:ASP:OD1	2.43	0.51
3:LJ:54:ALA:HB3	3:LJ:58:LYS:HB3	1.92	0.51
3:LJ:255:VAL:HG21	4:LK:100:ALA:O	2.11	0.51
24:M3:58:MET:HG2	24:M3:60:TRP:CH2	2.46	0.51
4:MC:208:ALA:H	4:MC:304:LYS:HZ1	1.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ME:317:MET:HE1	4:ME:377:MET:HG3	1.92	0.51
4:MG:76:ASP:OD1	4:MG:79:ARG:NH1	2.43	0.51
3:MJ:21:TRP:CZ2	3:MJ:63:ALA:HB2	2.46	0.51
4:NA:9:VAL:HA	4:NA:68:VAL:HG23	1.90	0.51
4:NA:256:GLN:O	4:NA:260:VAL:HG12	2.10	0.51
3:NB:11:GLN:HG3	39:NB:501:GTP:PA	2.50	0.51
4:NC:154:MET:HE1	4:NC:197:HIS:HB2	1.92	0.51
4:NG:256:GLN:O	4:NG:260:VAL:HG12	2.10	0.51
3:NH:324:LYS:HE2	4:NI:222:PRO:HG2	1.92	0.51
3:NJ:113:VAL:HA	3:NJ:116:VAL:HG22	1.92	0.51
4:NK:390:ARG:HA	4:NK:393:HIS:CE1	2.45	0.51
28:O2:36:GLU:HA	30:Q2:1414:LEU:HD12	1.92	0.51
28:O3:12:LYS:HD2	28:O3:15:LEU:HD11	1.93	0.51
4:OG:201:ALA:H	4:OG:266:HIS:HD2	1.57	0.51
4:OK:396:ASP:HA	4:OK:422:ARG:HH22	1.75	0.51
27:P:367:ASP:O	27:P:371:GLN:N	2.35	0.51
29:P1:59:PHE:H	29:P1:101:ARG:NH2	2.08	0.51
29:P1:259:LEU:HB3	29:P1:261:MET:SD	2.50	0.51
29:P2:562:THR:OG1	29:P2:572:TRP:NE1	2.40	0.51
4:PA:329:ASN:OD1	4:PA:330:ALA:N	2.43	0.51
4:PC:12:ALA:HB1	39:PC:501:GTP:C2	2.45	0.51
3:PD:19:LYS:NZ	3:PD:223:GLY:O	2.42	0.51
4:PG:70:LEU:HG	4:PG:149:PHE:CZ	2.45	0.51
3:PH:273:LEU:H	3:PH:292:GLN:HE22	1.57	0.51
3:PH:285:THR:O	3:PH:288:GLU:HG3	2.10	0.51
4:PI:28:HIS:HB2	4:PI:30:ILE:HG12	1.93	0.51
3:PJ:357:PRO:O	3:PJ:359:ARG:NH1	2.39	0.51
4:PK:216:ASN:ND2	4:PK:275:VAL:O	2.43	0.51
4:PK:390:ARG:HA	4:PK:393:HIS:CD2	2.45	0.51
30:Q3:1479:ARG:HG3	30:Q3:1484:ASN:HA	1.92	0.51
3:QB:65:LEU:HD12	3:QB:90:PHE:CE1	2.45	0.51
3:QD:117:LEU:HA	3:QD:120:VAL:HG12	1.91	0.51
3:QD:178:THR:HB	3:QD:181:GLU:HB2	1.92	0.51
3:QH:3:GLU:OE2	3:QH:127:CYS:HB2	2.10	0.51
4:QI:287:SER:N	4:QI:290:GLU:OE2	2.43	0.51
3:QL:234:SER:O	3:QL:238:THR:HG23	2.10	0.51
3:RB:52:ASN:OD1	3:RB:62:ARG:NH1	2.44	0.51
3:RD:3:GLU:OE2	3:RD:127:CYS:HB2	2.10	0.51
3:RD:143:THR:O	3:RD:147:MET:HG3	2.10	0.51
3:RH:12:CYS:SG	3:RH:13:GLY:N	2.83	0.51
3:RJ:357:PRO:HB3	3:RJ:362:LYS:HA	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RL:247:ASN:HB3	3:RL:252:LYS:HG2	1.91	0.51
4:RM:72:PRO:HA	4:RM:75:VAL:HG12	1.92	0.51
3:SB:13:GLY:HA2	3:SB:16:ILE:HB	1.93	0.51
3:SB:149:THR:O	3:SB:191:GLN:NE2	2.43	0.51
3:SF:28:HIS:ND1	3:SF:43:GLN:HB2	2.25	0.51
3:SF:176:SER:O	3:SF:178:THR:N	2.43	0.51
3:SF:250:LEU:O	3:SF:254:ALA:N	2.30	0.51
3:SH:130:LEU:HB2	3:SH:162:ARG:HH11	1.74	0.51
4:SI:102:ASN:HD21	4:SI:104:ALA:HB3	1.75	0.51
4:SI:434:GLU:HA	4:SI:437:VAL:HB	1.93	0.51
3:SL:218:THR:OG1	3:SL:219:THR:N	2.42	0.51
4:SM:214:ARG:NH1	4:SM:215:ARG:HG3	2.26	0.51
4:SM:256:GLN:O	4:SM:260:VAL:HG12	2.10	0.51
3:TB:378:PHE:CD1	3:TB:419:VAL:HG22	2.46	0.51
4:TC:358:GLN:NE2	4:TC:359:PRO:O	2.41	0.51
3:TD:19:LYS:NZ	3:TD:223:GLY:O	2.43	0.51
3:TJ:139:LEU:HD21	3:TJ:170:VAL:HG22	1.93	0.51
4:TK:331:ALA:O	4:TK:334:THR:OG1	2.25	0.51
3:TL:239:CYS:SG	3:TL:316:VAL:HG11	2.51	0.51
3:TN:11:GLN:HE21	39:TN:501:GTP:H3'	1.74	0.51
33:U:144:ILE:HD12	33:U:147:LYS:HE3	1.93	0.51
33:U:165:LEU:HD11	33:X:400:ARG:HE	1.75	0.51
4:UE:178:SER:OG	4:UE:180:ALA:O	2.29	0.51
4:UE:388:TRP:HB3	4:UE:425:LEU:HD11	1.91	0.51
3:UH:77:ARG:O	3:UH:77:ARG:NH1	2.36	0.51
3:UH:132:GLY:HA3	3:UH:163:ILE:H	1.75	0.51
4:VA:22:GLU:HG2	4:VA:83:TYR:CE2	2.45	0.51
3:VB:357:PRO:O	3:VB:359:ARG:NH2	2.43	0.51
4:VC:230:LEU:O	4:VC:234:ILE:HG12	2.10	0.51
4:VE:35:GLN:HG2	4:VE:59:GLY:O	2.09	0.51
4:VE:319:TYR:HB2	4:VE:355:ILE:HD13	1.92	0.51
3:VF:182:PRO:HB2	3:VF:388:MET:HE1	1.92	0.51
3:VF:345:ILE:HD12	3:VF:346:PRO:HD2	1.92	0.51
3:VH:111:GLU:HG2	3:VH:112:LEU:HD12	1.93	0.51
3:VH:391:ARG:CZ	3:VH:393:ALA:HB2	2.40	0.51
3:VJ:234:SER:O	3:VJ:238:THR:HG23	2.10	0.51
4:WE:127:ASP:HB2	35:XJ:110:PHE:CZ	2.44	0.51
3:WF:52:ASN:OD1	3:WF:62:ARG:NH1	2.43	0.51
3:WF:286:VAL:HA	3:WF:363:MET:HE1	1.91	0.51
4:WI:265:ILE:HD12	4:WI:432:TYR:CE1	2.46	0.51
34:XC:164:ARG:NH2	34:XC:181:PHE:HA	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:XD:114:VAL:HG13	34:XD:119:CYS:HB3	1.92	0.51
35:XH:119:LEU:HB2	35:XH:158:HIS:HE1	1.74	0.51
35:XI:102:GLU:O	35:XI:103:MET:HE2	2.09	0.51
37:YG:18:PHE:O	37:YG:22:GLN:N	2.43	0.51
37:YP:33:ARG:NH2	37:YP:134:TYR:OH	2.43	0.51
37:YQ:155:SER:HA	37:YQ:158:LEU:HG	1.92	0.51
37:YU:82:HIS:CE1	37:YU:86:LEU:HD11	2.44	0.51
37:YV:136:GLY:O	37:YV:140:LEU:N	2.41	0.51
1:A:90:GLU:HG2	9:E:778:PHE:HE1	1.75	0.51
2:A2:169:TYR:CE2	13:G1:196:SER:HA	2.45	0.51
2:A3:235:SER:O	2:A3:239:LYS:HG3	2.09	0.51
4:AC:113:GLU:N	4:AC:113:GLU:OE1	2.41	0.51
3:AD:415:MET:O	3:AD:419:VAL:HG23	2.10	0.51
3:AF:73:MET:HA	3:AF:76:VAL:HG22	1.93	0.51
3:AF:319:GLY:N	3:AF:321:MET:HE1	2.25	0.51
3:AH:217:LEU:HD12	3:AH:220:PRO:HD3	1.93	0.51
3:AJ:167:PHE:HD1	3:AJ:200:TYR:CD2	2.25	0.51
3:AJ:173:PRO:O	3:AJ:380:ARG:NH2	2.44	0.51
4:AK:98:ASP:O	4:AK:105:ARG:NH2	2.27	0.51
4:AK:139:HIS:CD2	4:AK:170:ALA:HB2	2.46	0.51
4:AK:166:LYS:N	4:AK:199:ASP:OD2	2.42	0.51
3:AL:350:LYS:HE3	4:AM:181:VAL:H	1.75	0.51
4:AM:119:LEU:HA	4:AM:122:ILE:HD12	1.93	0.51
4:AM:144:GLY:N	39:AM:501:GTP:O2B	2.41	0.51
5:B1:293:LEU:HD22	5:B1:363:LEU:HD13	1.93	0.51
5:B6:132:PRO:HA	5:B6:135:GLU:HG2	1.93	0.51
5:B6:200:SER:HA	5:B7:312:LYS:HE2	1.92	0.51
5:B7:189:CYS:O	5:B8:317:ARG:NH1	2.44	0.51
5:B7:333:GLN:OE1	5:B7:333:GLN:N	2.33	0.51
5:B9:280:LYS:O	5:B9:283:GLU:HG2	2.09	0.51
5:B9:338:LEU:O	5:B9:341:GLU:HB2	2.10	0.51
3:BD:84:ILE:O	3:BD:86:ARG:NH1	2.43	0.51
3:BL:256:ASN:HB3	3:BL:350:LYS:HG3	1.93	0.51
4:BM:10:GLY:O	4:BM:14:VAL:HG13	2.10	0.51
7:C3:348:THR:HA	7:C3:351:ILE:HD12	1.92	0.51
7:C8:119:ARG:HH22	10:E3:148:GLU:HB3	1.76	0.51
3:CB:214:THR:HG21	3:CB:273:LEU:HB3	1.92	0.51
3:CB:380:ARG:O	3:CB:384:GLN:HG2	2.10	0.51
3:CD:120:VAL:O	3:CD:124:ALA:N	2.39	0.51
3:CD:152:ILE:O	3:CD:156:ARG:HG2	2.10	0.51
3:CH:227:HIS:CE1	14:G5:295:PRO:HG2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CH:415:MET:O	3:CH:419:VAL:HG23	2.10	0.51
4:CI:254:GLU:OE1	4:CI:254:GLU:N	2.41	0.51
4:CK:207:GLU:HB2	4:CK:304:LYS:NZ	2.21	0.51
7:Cb:243:GLN:NE2	7:Cb:247:ASP:OD1	2.40	0.51
8:D3:411:SER:HA	8:D3:414:LYS:HZ3	1.75	0.51
8:D4:309:GLN:NE2	8:D4:313:ASP:OD2	2.43	0.51
8:D5:315:LEU:HD12	8:D5:423:LEU:HD12	1.93	0.51
8:D7:426:ASP:OD1	8:D7:427:ARG:N	2.43	0.51
3:DB:309:ARG:NH1	3:DB:341:PHE:O	2.44	0.51
4:DC:260:VAL:O	3:DD:397:TRP:HH2	1.93	0.51
3:DD:58:LYS:NZ	3:ED:280:GLN:HB2	2.24	0.51
3:DD:347:ASN:HB3	4:DE:178:SER:HB3	1.91	0.51
3:DF:269:GLY:O	3:DF:367:PHE:N	2.31	0.51
3:DF:406:MET:O	3:DF:409:THR:OG1	2.25	0.51
3:DL:103:LYS:HG2	3:DL:108:GLU:OE1	2.09	0.51
4:EA:319:TYR:HB2	4:EA:355:ILE:HD13	1.93	0.51
3:EB:266:PHE:C	3:EB:267:MET:HE2	2.36	0.51
3:ED:267:MET:O	3:ED:368:ILE:HD12	2.10	0.51
3:EF:32:PRO:O	3:EF:83:GLN:NE2	2.37	0.51
3:EF:406:MET:O	3:EF:409:THR:OG1	2.20	0.51
4:EG:326:LYS:HA	3:EH:208:TYR:HE2	1.76	0.51
4:EI:88:HIS:HB3	4:EI:91:GLN:HG2	1.92	0.51
3:EJ:166:THR:OG1	3:EJ:198:GLU:O	2.28	0.51
11:F4:135:GLN:O	11:F4:138:THR:OG1	2.27	0.51
11:F6:106:ALA:O	11:F6:110:ARG:HG3	2.10	0.51
11:F6:295:THR:HA	11:F6:298:LYS:HE3	1.93	0.51
11:F8:344:ASN:HA	11:F8:347:ILE:HD12	1.91	0.51
11:F9:367:GLU:OE2	11:Fa:110:ARG:NH1	2.43	0.51
4:FI:229:ARG:NH1	4:FI:233:GLN:HB2	2.26	0.51
4:FI:405:VAL:O	4:FI:409:VAL:HG22	2.11	0.51
3:FJ:217:LEU:HD11	3:FJ:220:PRO:HB3	1.93	0.51
4:FK:50:ASN:OD1	4:FK:51:THR:N	2.43	0.51
4:FK:287:SER:N	4:FK:290:GLU:OE2	2.42	0.51
4:FK:392:ASP:OD1	4:FK:393:HIS:N	2.43	0.51
11:Fk:380:ARG:HH12	14:G4:585:ILE:HA	1.75	0.51
11:Fm:161:ASP:O	11:Fm:164:LEU:HG	2.10	0.51
13:G2:207:ILE:HD12	13:G2:208:PRO:HD2	1.90	0.51
13:G2:210:ASP:O	13:G2:213:THR:OG1	2.29	0.51
14:G4:30:ASN:ND2	14:G4:31:ASN:H	2.09	0.51
14:G6:77:GLN:HB3	14:G6:108:LEU:HD12	1.91	0.51
14:G6:734:ARG:HG3	14:G6:735:TYR:N	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:GC:271:THR:HB	4:GC:377:MET:HE2	1.92	0.51
3:GD:28:HIS:O	3:GD:43:GLN:NE2	2.43	0.51
3:GF:129:CYS:SG	23:M:136:LYS:HD3	2.50	0.51
3:GF:252:LYS:O	3:GF:256:ASN:ND2	2.44	0.51
4:GG:433:GLU:O	4:GG:437:VAL:N	2.39	0.51
3:GH:16:ILE:HG13	3:GH:226:ASN:HD22	1.75	0.51
4:GI:213:CYS:O	4:GI:218:ASP:N	2.43	0.51
4:HG:229:ARG:NH1	4:HG:366:GLY:HA2	2.25	0.51
4:HI:47:ASP:HB3	4:HI:49:PHE:CE2	2.45	0.51
3:HJ:305:PRO:HA	3:HJ:373:ALA:HB2	1.93	0.51
3:HL:21:TRP:CZ2	3:HL:63:ALA:HB2	2.46	0.51
4:IA:192:HIS:CE1	4:IA:193:THR:HG23	2.45	0.51
3:IB:12:CYS:SG	39:IB:501:GTP:H5'	2.51	0.51
4:IC:256:GLN:O	4:IC:260:VAL:HG12	2.10	0.51
4:IC:333:ALA:HA	4:IC:336:LYS:HD2	1.92	0.51
3:ID:152:ILE:HA	3:ID:155:ILE:HG12	1.92	0.51
4:IE:109:THR:O	4:IE:112:LYS:NZ	2.41	0.51
4:IE:329:ASN:OD1	4:IE:330:ALA:N	2.44	0.51
3:IF:28:HIS:ND1	3:IF:43:GLN:HB2	2.25	0.51
4:IG:30:ILE:HG13	4:IG:53:PHE:HE2	1.76	0.51
3:IJ:313:VAL:HG23	3:IJ:349:VAL:HA	1.93	0.51
4:IK:182:VAL:HG13	4:IK:408:TYR:OH	2.09	0.51
3:IL:322:SER:N	3:IL:325:GLU:OE2	2.37	0.51
19:J2:23:GLN:NE2	19:J2:26:ALA:O	2.31	0.51
19:J2:165:VAL:HG13	19:J2:178:ILE:HG12	1.92	0.51
19:J2:170:SER:CB	19:J2:175:ILE:HG12	2.41	0.51
4:JA:6:SER:HA	4:JA:136:LEU:HB2	1.92	0.51
4:JA:224:TYR:HA	4:JA:227:LEU:HB2	1.93	0.51
4:JC:47:ASP:HB3	4:JC:49:PHE:CE2	2.45	0.51
4:JC:89:PRO:HD2	4:KC:280:LYS:NZ	2.24	0.51
4:JC:91:GLN:HG3	4:JC:121:ARG:HH21	1.74	0.51
4:JC:196:GLU:OE1	4:JC:196:GLU:N	2.38	0.51
3:JD:4:ILE:HD11	3:JD:131:GLN:HB2	1.91	0.51
3:JD:12:CYS:SG	3:JD:13:GLY:N	2.84	0.51
3:JH:176:SER:O	3:JH:178:THR:N	2.43	0.51
3:JL:2:ARG:HA	3:JL:129:CYS:O	2.11	0.51
3:JL:12:CYS:HA	39:JL:501:GTP:HN22	1.76	0.51
21:K2:344:LEU:O	21:K2:348:GLU:HG2	2.10	0.51
3:KB:198:GLU:HA	3:KB:266:PHE:HE2	1.76	0.51
3:KD:206:ALA:O	3:KD:210:ILE:HG12	2.10	0.51
4:KG:105:ARG:O	4:KG:109:THR:OG1	2.23	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:KG:213:CYS:O	4:KG:218:ASP:N	2.44	0.51
4:KI:22:GLU:O	4:KI:26:LEU:HD23	2.10	0.51
4:KI:175:PRO:HB3	4:KI:390:ARG:CZ	2.41	0.51
3:KL:415:MET:O	3:KL:419:VAL:HG23	2.11	0.51
4:LA:273:ALA:N	4:LA:377:MET:HE1	2.25	0.51
3:LB:12:CYS:SG	39:LB:501:GTP:H5'	2.51	0.51
3:LB:64:VAL:HA	3:LB:89:ASN:HB3	1.93	0.51
4:LC:75:VAL:HG11	4:LC:94:THR:HB	1.91	0.51
3:LF:130:LEU:HB2	3:LF:162:ARG:HH11	1.75	0.51
3:LF:141:GLY:HA3	39:LF:501:GTP:H5"	1.93	0.51
4:LG:324:VAL:HG11	3:LH:219:THR:HB	1.93	0.51
4:LI:375:VAL:HG13	4:LI:377:MET:SD	2.51	0.51
3:MB:247:ASN:HB3	3:MB:252:LYS:HG2	1.92	0.51
3:MD:117:LEU:HD11	3:MD:154:LYS:HD2	1.91	0.51
4:ME:83:TYR:HB3	4:ME:86:LEU:HD12	1.92	0.51
4:MG:434:GLU:HB2	28:O2:46:ARG:NH2	2.25	0.51
3:MH:52:ASN:OD1	3:MH:62:ARG:NH1	2.41	0.51
3:MH:317:PHE:HB3	3:MH:321:MET:HE3	1.93	0.51
4:MI:46:ASP:HA	4:MI:50:ASN:HB3	1.92	0.51
3:MJ:132:GLY:HA2	3:MJ:162:ARG:HB3	1.93	0.51
4:MK:339:ARG:NH2	28:O3:23:SER:OG	2.42	0.51
26:N4:153:THR:HG21	3:VL:44:LEU:HD21	1.91	0.51
4:NC:68:VAL:HG12	4:NC:93:ILE:HB	1.93	0.51
3:ND:141:GLY:HA3	39:ND:501:GTP:H5"	1.93	0.51
4:NE:260:VAL:HG23	4:NE:265:ILE:O	2.11	0.51
4:OA:392:ASP:OD1	4:OA:393:HIS:N	2.42	0.51
3:OD:374:ILE:HA	3:OD:377:LEU:HD13	1.91	0.51
3:OD:375:GLN:HA	3:OD:378:PHE:CZ	2.45	0.51
4:OI:102:ASN:ND2	4:OI:411:GLU:OE2	2.36	0.51
3:OJ:215:LEU:HD11	3:OJ:228:LEU:HD11	1.92	0.51
4:OK:205:ASP:OD2	4:OK:304:LYS:NZ	2.36	0.51
3:OL:415:MET:O	3:OL:419:VAL:HG23	2.10	0.51
29:P2:17:GLN:HB3	29:P2:613:ARG:HH21	1.75	0.51
4:PA:11:GLN:HG3	39:PA:501:GTP:O1B	2.10	0.51
3:PB:234:SER:O	3:PB:238:THR:HG23	2.11	0.51
3:PB:330:MET:HE1	4:PC:177:VAL:HG22	1.92	0.51
4:PE:81:GLY:O	4:PE:84:ARG:NH1	2.42	0.51
4:PI:261:PRO:HA	3:PJ:394:PHE:CE1	2.45	0.51
3:PJ:309:ARG:O	3:PJ:371:SER:OG	2.22	0.51
4:PK:346:TRP:C	3:PL:391:ARG:HH21	2.17	0.51
3:PL:166:THR:OG1	3:PL:198:GLU:O	2.22	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:Q2:1424:ASP:OD1	30:Q2:1425:LYS:N	2.43	0.51
3:QB:328:GLU:OE1	3:QB:332:ASN:ND2	2.41	0.51
4:QC:34:GLY:HA2	4:QC:86:LEU:HD21	1.92	0.51
4:QG:46:ASP:HA	4:QG:50:ASN:HB3	1.92	0.51
3:QL:218:THR:OG1	3:QL:219:THR:N	2.44	0.51
31:R1:255:ALA:O	31:R1:258:GLN:NE2	2.43	0.51
31:R2:119:ASN:O	31:R2:123:MET:HG2	2.10	0.51
4:RC:10:GLY:O	4:RC:13:GLY:N	2.41	0.51
3:RF:234:SER:O	3:RF:238:THR:HG23	2.09	0.51
3:RF:250:LEU:O	3:RF:254:ALA:N	2.31	0.51
4:RG:186:ASN:OD1	4:RG:187:SER:N	2.44	0.51
4:RI:108:TYR:CD1	4:RI:413:MET:HE1	2.44	0.51
4:RI:272:TYR:CZ	4:RI:274:PRO:HG2	2.45	0.51
3:RJ:176:SER:O	3:RJ:178:THR:N	2.43	0.51
3:RJ:234:SER:O	3:RJ:238:THR:HG23	2.11	0.51
3:RJ:266:PHE:HB3	3:RJ:368:ILE:HD11	1.91	0.51
3:RL:176:SER:O	3:RL:178:THR:N	2.43	0.51
4:SC:104:ALA:HA	4:SC:107:HIS:HB3	1.91	0.51
4:SC:208:ALA:H	4:SC:304:LYS:HZ1	1.57	0.51
3:SD:2:ARG:HB2	3:SD:131:GLN:NE2	2.25	0.51
3:SF:166:THR:OG1	3:SF:198:GLU:O	2.25	0.51
3:SF:423:GLN:HA	3:SF:426:GLN:HE21	1.75	0.51
4:SG:324:VAL:HG11	3:SH:219:THR:HB	1.91	0.51
3:SH:182:PRO:HB2	3:SH:388:MET:HE1	1.91	0.51
3:SH:322:SER:N	3:SH:325:GLU:OE2	2.42	0.51
3:SH:357:PRO:HB3	3:SH:362:LYS:HA	1.92	0.51
3:SJ:218:THR:OG1	3:SJ:219:THR:N	2.42	0.51
3:SL:289:LEU:O	3:SL:293:MET:N	2.35	0.51
3:TD:245:GLN:HE22	4:TE:15:GLN:NE2	2.08	0.51
4:TE:287:SER:OG	4:TE:290:GLU:OE1	2.28	0.51
3:TF:268:PRO:HD2	3:TF:301:ALA:HB2	1.91	0.51
4:TG:98:ASP:O	4:TG:105:ARG:NH2	2.30	0.51
4:TI:12:ALA:HB1	39:TI:501:GTP:N3	2.26	0.51
3:TJ:13:GLY:HA2	3:TJ:16:ILE:HB	1.92	0.51
3:TJ:282:ARG:HE	3:TJ:288:GLU:CD	2.17	0.51
4:TK:279:GLU:HA	4:TK:282:TYR:HB3	1.91	0.51
4:TM:9:VAL:HA	4:TM:68:VAL:HG23	1.93	0.51
33:U:505:GLU:HA	33:U:508:GLU:HB3	1.93	0.51
3:UD:172:SER:OG	3:UD:205:GLU:OE2	2.21	0.51
3:UD:322:SER:N	3:UD:325:GLU:OE2	2.43	0.51
3:UF:117:LEU:HA	3:UF:120:VAL:HG22	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UF:150:LEU:HB3	3:UF:154:LYS:HZ1	1.76	0.51
3:UF:214:THR:O	3:UF:276:ARG:NH2	2.43	0.51
4:UG:405:VAL:O	4:UG:409:VAL:HG22	2.10	0.51
4:UI:402:ARG:HB2	4:UI:405:VAL:HG11	1.92	0.51
3:VD:3:GLU:OE2	3:VD:129:CYS:N	2.43	0.51
4:VE:88:HIS:CE1	4:VE:121:ARG:HH22	2.28	0.51
3:VH:247:ASN:HB3	3:VH:252:LYS:HG2	1.91	0.51
4:VK:282:TYR:HB2	33:X:424:ARG:HH12	1.74	0.51
4:WA:116:ASP:N	4:WA:116:ASP:OD1	2.43	0.51
3:WD:83:GLN:O	3:WD:86:ARG:NH2	2.43	0.51
3:WD:247:ASN:HB3	3:WD:252:LYS:HG2	1.91	0.51
3:WF:139:LEU:N	3:WF:168:SER:OG	2.44	0.51
3:WL:52:ASN:OD1	3:WL:62:ARG:NH1	2.44	0.51
34:XA:155:GLN:HE22	34:XA:157:HIS:CG	2.28	0.51
34:XE:11:LEU:HD13	34:XE:71:ILE:HD12	1.92	0.51
34:XE:168:SER:HB2	34:XE:172:TYR:CD1	2.45	0.51
34:XF:73:LEU:HD22	34:XF:169:ASP:HB3	1.93	0.51
34:XG:77:VAL:HB	34:XG:166:TYR:CE1	2.46	0.51
35:XI:76:ASN:HB2	35:XI:109:PHE:CE1	2.45	0.51
37:YB:112:SER:HA	37:YB:135:GLY:HA3	1.91	0.51
37:YC:155:SER:HA	37:YC:158:LEU:HG	1.92	0.51
37:YF:50:GLN:O	37:YF:53:MET:HG3	2.10	0.51
37:YI:2:ASN:HA	37:YI:5:LYS:NZ	2.26	0.51
37:YL:155:SER:HA	37:YL:158:LEU:HG	1.91	0.51
37:YN:114:ARG:NH2	37:YN:133:HIS:O	2.43	0.51
37:YO:121:VAL:HG12	37:YO:138:VAL:HB	1.92	0.51
37:YU:98:GLU:HA	37:YU:101:LYS:HD2	1.92	0.51
37:YW:93:THR:HB	37:YW:151:TRP:CD1	2.46	0.51
2:A1:348:VAL:HG12	2:A1:352:LYS:NZ	2.25	0.51
2:A2:187:VAL:HG21	7:C2:266:ARG:HH22	1.75	0.51
2:A2:336:ARG:HH12	2:A3:62:LYS:HB2	1.75	0.51
2:A3:159:GLU:O	2:A3:162:ARG:HB3	2.11	0.51
3:AB:380:ARG:O	3:AB:384:GLN:HG2	2.11	0.51
4:AC:320:ARG:HG2	4:AC:358:GLN:O	2.11	0.51
4:AE:220:GLU:O	4:AE:221:ARG:NE	2.42	0.51
3:AF:176:SER:O	3:AF:178:THR:N	2.44	0.51
4:AG:9:VAL:HA	4:AG:68:VAL:HG23	1.92	0.51
3:AH:6:HIS:HE1	3:AH:8:GLN:HB2	1.76	0.51
3:AJ:16:ILE:HD13	3:AJ:226:ASN:HD22	1.75	0.51
5:B1:348:THR:O	5:B1:351:THR:OG1	2.19	0.51
5:B2:43:ARG:O	5:B2:46:ARG:HG2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B2:187:ARG:HD3	10:E3:156:PHE:HA	1.93	0.51
5:B2:324:ARG:CZ	5:B2:330:CYS:H	2.24	0.51
5:B3:160:GLN:O	5:B3:164:LEU:HG	2.10	0.51
5:B3:239:LEU:O	5:B3:243:ILE:HG12	2.11	0.51
5:B3:266:ARG:HA	5:B3:269:LEU:HD12	1.91	0.51
5:B4:201:LEU:HD12	8:D2:220:GLU:OE2	2.11	0.51
5:B5:17:TRP:HH2	5:B6:271:GLU:OE1	1.94	0.51
5:B6:203:VAL:HG13	5:B6:207:ARG:HH22	1.75	0.51
5:B6:237:ILE:O	5:B6:241:GLU:HG2	2.11	0.51
5:B6:396:LYS:HZ1	7:C9:345:LEU:HA	1.75	0.51
3:BB:164:MET:HE3	3:BB:196:THR:C	2.36	0.51
4:BC:172:TYR:N	4:BC:204:VAL:O	2.32	0.51
4:BC:331:ALA:O	4:BC:334:THR:OG1	2.26	0.51
4:BE:239:THR:OG1	4:BE:243:ARG:NH1	2.41	0.51
4:BE:285:GLN:HE22	4:BE:287:SER:HB3	1.76	0.51
3:BF:405:GLU:HA	3:BF:408:PHE:HD2	1.76	0.51
3:BH:178:THR:HB	3:BH:181:GLU:HB2	1.93	0.51
3:BH:316:VAL:HG22	3:BH:352:ALA:HB3	1.91	0.51
4:BI:271:THR:O	4:BI:377:MET:N	2.30	0.51
3:BJ:285:THR:O	3:BJ:288:GLU:HG3	2.11	0.51
3:BL:324:LYS:HE2	4:BM:222:PRO:CD	2.40	0.51
4:BM:6:SER:HA	4:BM:136:LEU:HB2	1.91	0.51
4:BM:208:ALA:H	4:BM:304:LYS:NZ	2.07	0.51
7:C7:205:ARG:NE	7:C7:209:ASP:O	2.34	0.51
7:C8:378:THR:O	7:C8:381:SER:OG	2.25	0.51
3:CB:48:ASN:HA	3:CB:51:TYR:O	2.10	0.51
3:CB:77:ARG:O	3:CB:77:ARG:NH1	2.37	0.51
4:CC:317:MET:HE1	4:CC:351:PHE:HB3	1.91	0.51
3:CD:51:TYR:CD1	3:CD:61:PRO:HA	2.45	0.51
3:CD:380:ARG:O	3:CD:384:GLN:HG2	2.11	0.51
4:CE:118:VAL:HA	4:CE:121:ARG:HG2	1.91	0.51
4:CE:319:TYR:HB2	4:CE:355:ILE:HD13	1.91	0.51
3:CH:216:LYS:NZ	14:G5:306:VAL:HG22	2.25	0.51
4:CI:10:GLY:O	4:CI:14:VAL:HG13	2.10	0.51
4:CI:224:TYR:CE1	39:CI:501:GTP:C5	2.94	0.51
4:CI:274:PRO:HG3	4:CI:374:ALA:HA	1.91	0.51
3:CJ:286:VAL:HG21	3:CJ:325:GLU:HG3	1.91	0.51
3:CJ:318:ARG:C	3:CJ:321:MET:HE1	2.35	0.51
4:CK:104:ALA:HA	4:CK:107:HIS:HB3	1.92	0.51
7:Ca:441:SER:O	7:Ca:444:THR:OG1	2.25	0.51
7:Cc:379:ILE:O	7:Cc:383:LYS:HG3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:117:ILE:N	6:D:178:ILE:O	2.43	0.51
6:D:158:ASP:O	6:D:162:ARG:NH1	2.43	0.51
6:D:306:VAL:O	12:G:98:ARG:NH1	2.43	0.51
6:D:383:LEU:HD23	6:D:383:LEU:H	1.76	0.51
8:D4:188:GLU:HA	8:D4:191:LYS:HD2	1.92	0.51
8:D5:402:LEU:HA	8:D5:405:LEU:HD12	1.92	0.51
8:D7:137:ARG:HD2	8:D7:140:ARG:NH2	2.24	0.51
8:D8:116:GLU:HB2	8:D8:119:ARG:HH21	1.74	0.51
3:DD:286:VAL:HG11	3:DD:325:GLU:HB2	1.93	0.51
3:DD:319:GLY:HA2	3:DD:357:PRO:HG3	1.91	0.51
3:DD:385:PHE:HZ	3:DD:408:PHE:HB3	1.74	0.51
3:DF:12:CYS:SG	3:DF:13:GLY:N	2.82	0.51
3:DF:239:CYS:SG	3:DF:248:ALA:HA	2.51	0.51
4:DI:316:CYS:N	4:DI:378:LEU:O	2.40	0.51
4:DK:89:PRO:HD2	4:EK:280:LYS:NZ	2.25	0.51
8:Da:61:TYR:HD1	8:Da:64:TYR:HD2	1.57	0.51
9:E:814:GLU:OE2	9:E:818:ASN:ND2	2.37	0.51
3:ED:32:PRO:O	3:ED:83:GLN:NE2	2.31	0.51
3:EH:150:LEU:O	3:EH:153:SER:OG	2.21	0.51
4:EI:216:ASN:HD21	4:EI:275:VAL:HG23	1.75	0.51
4:EI:312:TYR:HB2	4:EI:343:PHE:HA	1.92	0.51
3:EJ:269:GLY:HA3	3:EJ:367:PHE:HB3	1.93	0.51
4:EK:329:ASN:HA	4:EK:332:ILE:HG12	1.92	0.51
11:F1:196:TYR:OH	11:F5:248:HIS:HA	2.11	0.51
11:F3:401:ARG:NH2	11:F8:450:ARG:HA	2.25	0.51
3:FB:12:CYS:SG	39:FB:501:GTP:H5'	2.51	0.51
3:FB:50:TYR:HE2	3:FB:241:ARG:HE	1.57	0.51
4:FC:386:GLU:O	4:FC:390:ARG:N	2.41	0.51
3:FD:213:ARG:HG2	3:FD:297:LYS:HG3	1.93	0.51
4:FE:46:ASP:OD1	4:FE:50:ASN:ND2	2.44	0.51
4:FE:423:GLU:HA	4:FE:426:ALA:HB3	1.92	0.51
3:FH:21:TRP:CZ2	3:FH:63:ALA:HB2	2.45	0.51
3:FL:72:THR:O	3:FL:75:SER:OG	2.28	0.51
11:Fa:205:ASP:OD2	11:Fa:461:THR:OG1	2.25	0.51
11:Fb:136:GLU:O	11:Fb:140:ARG:HG3	2.11	0.51
11:Fh:197:ASN:HA	11:Fh:200:LYS:HD3	1.91	0.51
11:Fj:260:ALA:HA	11:Fj:263:ILE:HD12	1.92	0.51
11:Fj:379:GLU:O	11:Fj:382:ILE:HG22	2.09	0.51
11:Fl:377:LEU:HD11	14:G5:589:ILE:HG22	1.92	0.51
13:G3:422:TYR:HB3	13:G3:505:ILE:HG23	1.91	0.51
14:G4:307:TYR:CZ	14:G4:317:GLY:HA3	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G5:431:SER:O	14:G5:528:TYR:OH	2.26	0.51
4:GA:3:GLU:N	4:GA:133:GLN:OE1	2.43	0.51
4:GA:127:ASP:OD1	4:GA:128:LEU:N	2.44	0.51
3:GB:324:LYS:HD2	4:GC:221:ARG:HA	1.93	0.51
4:GC:384:ILE:HB	4:GC:388:TRP:HZ3	1.75	0.51
3:GD:81:PHE:O	3:GD:84:ILE:HG22	2.10	0.51
4:GE:115:VAL:O	4:GE:119:LEU:N	2.38	0.51
4:GE:115:VAL:HG21	4:GE:156:ARG:HD3	1.92	0.51
4:GG:186:ASN:OD1	4:GG:187:SER:N	2.44	0.51
3:GL:323:MET:SD	3:GL:323:MET:N	2.83	0.51
15:H1:17:ILE:HD12	15:H1:17:ILE:H	1.75	0.51
15:H6:9:LEU:HG	15:H6:10:PHE:H	1.74	0.51
3:HF:344:TRP:CE2	4:HG:401:LYS:HD2	2.45	0.51
3:HH:309:ARG:N	3:HH:372:THR:OG1	2.26	0.51
3:HJ:16:ILE:HG13	3:HJ:226:ASN:HD22	1.75	0.51
3:HJ:315:ALA:HB2	3:HJ:367:PHE:HD1	1.76	0.51
3:HL:285:THR:OG1	3:HL:288:GLU:OE1	2.23	0.51
3:IB:101:TRP:CE3	3:IB:187:LEU:HD13	2.45	0.51
4:IC:180:ALA:HB1	4:IC:182:VAL:HG12	1.92	0.51
3:IF:198:GLU:HA	3:IF:266:PHE:HE2	1.74	0.51
4:II:116:ASP:N	4:II:116:ASP:OD1	2.43	0.51
4:II:346:TRP:HH2	3:IJ:391:ARG:H	1.59	0.51
4:IM:255:PHE:O	4:IM:259:LEU:HB2	2.11	0.51
3:JB:7:LEU:HD13	3:JB:64:VAL:HB	1.92	0.51
4:JC:260:VAL:HG23	4:JC:265:ILE:O	2.11	0.51
3:JD:282:ARG:NH2	3:JD:292:GLN:OE1	2.33	0.51
4:JE:256:GLN:O	4:JE:260:VAL:HG12	2.10	0.51
3:JF:3:GLU:OE2	3:JF:127:CYS:HB2	2.10	0.51
4:JG:102:ASN:ND2	4:JG:105:ARG:HD3	2.25	0.51
4:JI:392:ASP:O	4:JI:396:ASP:N	2.36	0.51
4:JK:120:ASP:OD1	4:JK:123:ARG:NH2	2.27	0.51
3:JL:12:CYS:HA	39:JL:501:GTP:N2	2.25	0.51
3:JL:285:THR:O	3:JL:288:GLU:HG3	2.10	0.51
21:K3:243:GLN:CD	21:K3:244:ALA:H	2.19	0.51
21:K3:329:SER:OG	21:K3:464:ARG:NE	2.43	0.51
21:K4:374:THR:HA	21:K4:377:ILE:HD12	1.91	0.51
3:KD:211:CYS:SG	3:KD:220:PRO:HG3	2.50	0.51
4:KE:22:GLU:O	4:KE:26:LEU:HD23	2.10	0.51
3:KF:250:LEU:O	3:KF:254:ALA:N	2.33	0.51
3:KJ:12:CYS:SG	39:KJ:501:GTP:H5'	2.50	0.51
4:KK:287:SER:N	4:KK:290:GLU:OE2	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KL:235:GLY:O	3:KL:238:THR:OG1	2.21	0.51
3:KL:421:GLU:OE2	31:R3:120:TYR:HB3	2.10	0.51
22:L1:88:VAL:HG13	4:LA:264:ARG:HD3	1.91	0.51
4:LA:52:PHE:CZ	4:LA:239:THR:HB	2.46	0.51
4:LA:186:ASN:OD1	4:LA:187:SER:N	2.44	0.51
3:LD:285:THR:O	3:LD:288:GLU:HG3	2.10	0.51
3:LH:7:LEU:HB2	3:LH:135:LEU:HD23	1.91	0.51
3:LH:235:GLY:O	3:LH:238:THR:OG1	2.18	0.51
4:LI:8:HIS:CD2	4:LI:17:GLY:HA3	2.46	0.51
3:LJ:234:SER:O	3:LJ:238:THR:HG23	2.10	0.51
24:M2:95:ARG:NH1	24:M2:98:HIS:O	2.41	0.51
4:ME:320:ARG:HD3	4:ME:360:PRO:HG3	1.93	0.51
3:MF:7:LEU:HD13	3:MF:64:VAL:HB	1.92	0.51
3:MF:384:GLN:O	3:MF:388:MET:HG2	2.11	0.51
4:MG:286:LEU:HD11	4:MG:373:ARG:H	1.75	0.51
3:MH:350:LYS:HE3	4:MI:180:ALA:HA	1.92	0.51
3:MJ:309:ARG:O	3:MJ:371:SER:OG	2.22	0.51
4:MK:105:ARG:O	4:MK:109:THR:OG1	2.22	0.51
4:MK:320:ARG:HG2	4:MK:358:GLN:O	2.10	0.51
3:NF:84:ILE:O	3:NF:86:ARG:NH1	2.43	0.51
3:NJ:139:LEU:N	3:NJ:168:SER:OG	2.42	0.51
4:NK:35:GLN:HG2	4:NK:59:GLY:O	2.10	0.51
28:O2:12:LYS:HD2	28:O2:15:LEU:HD11	1.93	0.51
4:OC:9:VAL:HG22	4:OC:146:GLY:HA2	1.92	0.51
3:OD:32:PRO:O	3:OD:83:GLN:NE2	2.41	0.51
3:OD:36:TYR:O	37:YH:64:ARG:NH2	2.35	0.51
4:OE:319:TYR:N	4:OE:354:GLY:O	2.43	0.51
3:OF:11:GLN:HG3	39:OF:501:GTP:PA	2.50	0.51
4:OG:84:ARG:HH22	37:YK:124:HIS:C	2.18	0.51
3:OJ:114:ASP:OD1	3:OJ:115:SER:N	2.44	0.51
27:P:210:CYS:O	27:P:214:LYS:HG2	2.10	0.51
29:P1:354:LYS:HZ1	29:P1:374:ASN:HA	1.75	0.51
29:P1:459:GLU:HB2	29:P1:488:TRP:HH2	1.75	0.51
29:P3:606:SER:OG	29:P3:608:ASP:OD1	2.28	0.51
4:PA:223:THR:OG1	4:PA:225:THR:OG1	2.19	0.51
4:PC:392:ASP:OD1	4:PC:393:HIS:N	2.43	0.51
3:PD:54:ALA:HA	3:QD:283:ALA:HB2	1.93	0.51
3:PD:187:LEU:HD21	3:PD:408:PHE:HE1	1.75	0.51
4:PE:296:PHE:HE2	4:PE:335:ILE:HD13	1.75	0.51
3:PF:176:SER:O	3:PF:178:THR:N	2.44	0.51
3:PF:269:GLY:N	3:PF:367:PHE:O	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PH:176:SER:O	3:PH:178:THR:N	2.43	0.51
4:PM:208:ALA:H	4:PM:304:LYS:NZ	2.07	0.51
30:Q3:1360:ALA:HB1	30:Q3:1383:ILE:HB	1.92	0.51
3:QB:406:MET:O	3:QB:409:THR:OG1	2.20	0.51
4:QK:139:HIS:CD2	4:QK:170:ALA:HB2	2.46	0.51
4:RC:345:ASP:N	4:RC:345:ASP:OD1	2.43	0.51
3:RD:383:GLU:OE2	3:RD:383:GLU:N	2.39	0.51
4:RE:105:ARG:O	4:RE:109:THR:OG1	2.22	0.51
3:RF:32:PRO:O	3:RF:83:GLN:NE2	2.34	0.51
3:RH:186:THR:HB	3:RH:415:MET:HE3	1.91	0.51
3:RJ:385:PHE:HZ	3:RJ:408:PHE:HB3	1.74	0.51
3:RL:3:GLU:OE2	3:RL:127:CYS:HB2	2.10	0.51
3:RL:252:LYS:O	3:RL:256:ASN:ND2	2.44	0.51
4:RM:66:VAL:HG22	4:RM:91:GLN:HB2	1.93	0.51
3:SB:47:ILE:HG12	3:SB:59:TYR:CD2	2.45	0.51
4:SK:187:SER:O	4:SK:190:THR:OG1	2.24	0.51
4:SK:223:THR:OG1	4:SK:225:THR:OG1	2.21	0.51
4:SK:423:GLU:HA	4:SK:426:ALA:HB3	1.93	0.51
3:SL:176:SER:O	3:SL:178:THR:N	2.43	0.51
4:SM:1:MET:N	4:SM:130:THR:OG1	2.44	0.51
4:SM:371:VAL:HG11	4:SM:374:ALA:HB2	1.92	0.51
3:TB:117:LEU:HD11	3:TB:154:LYS:HD2	1.92	0.51
3:TB:255:VAL:HA	4:TC:407:TRP:CE2	2.46	0.51
4:TC:52:PHE:HZ	4:TC:239:THR:HB	1.75	0.51
3:TD:190:HIS:ND1	3:TD:411:ALA:HA	2.26	0.51
3:TF:299:MET:SD	3:TF:300:MET:N	2.83	0.51
4:TG:67:PHE:HB2	4:TG:92:LEU:HD13	1.91	0.51
4:TG:346:TRP:HE1	3:TH:391:ARG:NH1	2.09	0.51
3:TL:101:TRP:HB2	3:TL:184:ASN:HD22	1.75	0.51
4:TM:319:TYR:HB2	4:TM:355:ILE:HD13	1.91	0.51
3:UD:324:LYS:NZ	4:UE:222:PRO:O	2.30	0.51
4:UG:329:ASN:OD1	4:UG:330:ALA:N	2.44	0.51
3:UJ:337:ASN:HB2	3:UJ:340:TYR:HD2	1.74	0.51
4:VA:104:ALA:HA	4:VA:107:HIS:HB3	1.91	0.51
3:VB:250:LEU:HD13	3:VB:253:LEU:HD12	1.91	0.51
3:VB:415:MET:O	3:VB:419:VAL:HG23	2.10	0.51
4:VC:259:LEU:HD21	4:VC:316:CYS:HB2	1.93	0.51
4:VE:103:TYR:HB2	4:VE:186:ASN:HB2	1.93	0.51
4:VE:220:GLU:O	4:VE:221:ARG:NE	2.41	0.51
4:VE:411:GLU:OE2	4:VE:413:MET:HE1	2.11	0.51
3:VH:250:LEU:HD13	3:VH:253:LEU:HD12	1.90	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VJ:211:CYS:HA	3:VJ:215:LEU:HB2	1.92	0.51
33:W:190:GLU:HB3	33:X:518:LYS:HZ1	1.75	0.51
33:W:326:LYS:HA	33:W:329:MET:HB3	1.93	0.51
4:WC:30:ILE:HG13	4:WC:53:PHE:HE2	1.75	0.51
4:WC:329:ASN:OD1	4:WC:330:ALA:N	2.44	0.51
3:WD:28:HIS:O	3:WD:43:GLN:NE2	2.43	0.51
4:WE:67:PHE:HB2	4:WE:92:LEU:HD13	1.92	0.51
3:WH:52:ASN:OD1	3:WH:62:ARG:NH1	2.43	0.51
4:WI:132:LEU:HD12	4:WI:132:LEU:O	2.10	0.51
4:WI:324:VAL:HG11	3:WJ:219:THR:HB	1.93	0.51
4:WK:214:ARG:NH1	4:WK:215:ARG:HG3	2.25	0.51
3:WL:415:MET:O	3:WL:419:VAL:HG23	2.11	0.51
33:X:454:ARG:HH12	33:X:458:GLU:HB2	1.76	0.51
35:XK:177:ILE:HG13	35:XK:178:LEU:HD12	1.92	0.51
35:XK:199:GLN:N	35:XK:199:GLN:OE1	2.43	0.51
37:YF:26:ILE:O	37:YF:30:GLU:N	2.35	0.51
37:YL:4:VAL:HG21	37:YL:83:PHE:CZ	2.45	0.51
37:YL:103:LEU:HD22	37:YL:144:VAL:HG22	1.92	0.51
37:YN:128:ASP:HA	37:YN:131:ARG:HD3	1.92	0.51
37:YV:13:GLN:HA	37:YV:16:LYS:HE2	1.92	0.51
1:A:151:GLN:HA	1:A:154:ARG:HG2	1.91	0.51
1:A:181:ASN:O	1:A:185:ALA:N	2.33	0.51
1:A:234:LYS:HA	1:A:237:LYS:HB2	1.92	0.51
2:A1:336:ARG:HE	2:A1:337:LEU:HD22	1.75	0.51
2:A2:38:VAL:O	2:A2:41:SER:OG	2.19	0.51
2:A3:102:LEU:HD21	2:A3:150:LEU:HB3	1.93	0.51
2:A3:128:VAL:HG13	2:A4:10:ARG:NH1	2.26	0.51
2:A3:303:ILE:HD11	2:A3:351:LEU:HB3	1.92	0.51
2:A4:32:SER:HB3	2:A4:36:ARG:CZ	2.41	0.51
4:AC:245:ASP:OD1	4:AC:249:ASN:ND2	2.34	0.51
3:AF:304:ASP:O	3:AF:307:HIS:ND1	2.43	0.51
3:AH:32:PRO:O	3:AH:83:GLN:NE2	2.37	0.51
3:AH:295:ASP:HB2	3:AH:298:ASN:HB2	1.92	0.51
4:AI:54:SER:N	4:AI:62:VAL:O	2.43	0.51
4:AI:236:SER:O	4:AI:243:ARG:NH2	2.36	0.51
3:AJ:2:ARG:HB3	3:AJ:131:GLN:NE2	2.25	0.51
3:AL:170:VAL:N	3:AL:202:ILE:O	2.37	0.51
1:B:330:GLU:HA	1:B:333:LYS:HG2	1.92	0.51
5:B2:92:LEU:HD21	5:B2:236:SER:HB2	1.92	0.51
5:B7:339:ILE:HG22	5:B7:343:HIS:CE1	2.46	0.51
5:B7:360:GLN:HB2	8:D9:237:GLN:NE2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BE:286:LEU:HD11	4:BE:373:ARG:H	1.76	0.51
4:BG:88:HIS:HA	4:CG:283:HIS:HE1	1.75	0.51
3:BH:25:SER:O	3:BH:29:GLY:N	2.44	0.51
3:BJ:361:LEU:HD11	3:BJ:364:SER:HB3	1.92	0.51
4:BK:186:ASN:OD1	4:BK:187:SER:N	2.43	0.51
4:BK:192:HIS:HA	4:BK:195:LEU:HD23	1.92	0.51
3:BL:380:ARG:O	3:BL:384:GLN:HG2	2.10	0.51
4:BM:1:MET:SD	4:BM:2:ARG:N	2.84	0.51
4:BM:220:GLU:O	4:BM:221:ARG:NE	2.43	0.51
6:C:262:ILE:HG12	6:C:389:PHE:CZ	2.45	0.51
7:C4:131:LYS:HE2	7:C5:430:THR:HG22	1.93	0.51
7:C4:145:ASN:HB3	7:C4:149:ARG:HH12	1.76	0.51
7:C6:284:PHE:CZ	7:C7:401:ASP:HB2	2.46	0.51
7:C7:124:THR:O	7:C7:128:ILE:HG12	2.10	0.51
7:C7:443:ASP:HA	7:C7:446:GLN:OE1	2.10	0.51
7:C8:192:LEU:HD11	7:C8:196:ARG:HH22	1.75	0.51
3:CB:258:VAL:HG23	3:CB:263:LEU:HB2	1.91	0.51
3:CB:375:GLN:HA	3:CB:378:PHE:CZ	2.45	0.51
4:CC:427:ALA:HA	4:CC:430:LYS:HG2	1.92	0.51
3:CD:4:ILE:HD11	3:CD:131:GLN:HB2	1.92	0.51
3:CD:82:GLY:HA2	3:CD:85:PHE:HD2	1.75	0.51
3:CD:83:GLN:HG2	3:CD:84:ILE:HD12	1.92	0.51
4:CG:224:TYR:HB3	4:CG:228:ASN:ND2	2.26	0.51
3:CH:218:THR:OG1	3:CH:219:THR:N	2.42	0.51
4:CI:392:ASP:HB3	4:CI:425:LEU:HD21	1.92	0.51
3:CJ:324:LYS:HD2	4:CK:221:ARG:HA	1.93	0.51
4:CK:206:ASN:HA	4:CK:209:ILE:HD12	1.92	0.51
7:Cd:199:LEU:HD12	7:Cd:219:LEU:HB3	1.92	0.51
6:D:117:ILE:HB	6:D:178:ILE:HB	1.92	0.51
8:D4:255:GLU:O	8:D4:259:LYS:HG2	2.10	0.51
8:D6:346:LYS:HE2	8:D7:88:THR:HB	1.92	0.51
8:D8:276:VAL:HG13	8:D8:279:ARG:NH2	2.25	0.51
4:DA:36:MET:HG3	4:DA:41:THR:OG1	2.10	0.51
3:DB:141:GLY:HA3	39:DB:501:GTP:H5"	1.91	0.51
4:DC:415:GLU:HA	4:DC:418:PHE:CD2	2.46	0.51
3:DD:12:CYS:HA	3:DD:15:GLN:HG2	1.92	0.51
3:DF:2:ARG:HA	3:DF:129:CYS:O	2.10	0.51
3:DJ:282:ARG:HE	3:DJ:288:GLU:CD	2.19	0.51
10:E3:13:VAL:N	10:E3:14:PRO:HD3	2.26	0.51
10:E3:106:PRO:O	10:E3:110:THR:HG23	2.10	0.51
10:E4:53:PRO:HB3	10:E4:57:ASP:CG	2.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EC:113:GLU:OE1	4:EC:113:GLU:N	2.43	0.51
3:ED:135:LEU:O	3:ED:167:PHE:HB2	2.10	0.51
3:ED:322:SER:OG	3:ED:323:MET:SD	2.69	0.51
3:EF:55:THR:HG23	3:FF:283:ALA:HA	1.92	0.51
4:EG:139:HIS:HE1	4:EG:168:GLU:HB3	1.75	0.51
4:EG:256:GLN:O	4:EG:260:VAL:HG12	2.10	0.51
3:EH:73:MET:HA	3:EH:76:VAL:HG22	1.92	0.51
4:EK:271:THR:O	4:EK:377:MET:N	2.28	0.51
11:F2:94:ASP:O	11:F2:97:ARG:NH1	2.43	0.51
11:F2:409:ARG:HG3	11:F3:289:THR:HG21	1.91	0.51
11:F6:378:LEU:HD22	11:F6:430:LEU:HD11	1.91	0.51
4:FA:213:CYS:O	4:FA:218:ASP:N	2.43	0.51
3:FD:269:GLY:N	3:FD:367:PHE:O	2.42	0.51
3:FD:420:SER:O	3:FD:423:GLN:NE2	2.44	0.51
4:FE:2:ARG:O	4:FE:51:THR:OG1	2.26	0.51
4:FE:51:THR:HG23	4:FE:52:PHE:CD2	2.45	0.51
4:FE:213:CYS:O	4:FE:218:ASP:N	2.44	0.51
4:FG:51:THR:HG23	4:FG:52:PHE:CD2	2.45	0.51
4:FI:423:GLU:HA	4:FI:426:ALA:HB3	1.93	0.51
4:FK:329:ASN:HA	4:FK:332:ILE:HG22	1.93	0.51
11:Fa:394:THR:HG21	11:Fb:277:ILE:HD12	1.92	0.51
11:Fb:241:ARG:HE	11:Fb:244:ARG:NE	2.07	0.51
11:Fb:450:ARG:O	11:Fb:453:HIS:ND1	2.44	0.51
11:Fh:387:TYR:CD2	11:Fh:391:MET:HE1	2.45	0.51
11:Fi:431:LYS:O	11:Fi:435:ARG:NE	2.36	0.51
11:Fk:120:SER:HA	11:Fk:123:ILE:HD12	1.93	0.51
11:Fm:238:PHE:HA	11:Fm:241:ARG:HE	1.75	0.51
13:G3:280:GLU:HG2	13:G3:281:ARG:N	2.26	0.51
14:G4:542:TYR:HB3	14:G4:597:GLN:CD	2.35	0.51
3:GB:273:LEU:O	3:GB:292:GLN:NE2	2.43	0.51
4:GE:188:ILE:HA	4:GE:191:THR:HG1	1.76	0.51
4:GE:225:THR:HG22	23:M:94:TYR:CE1	2.45	0.51
3:GJ:245:GLN:OE1	39:GK:501:GTP:N7	2.44	0.51
3:GJ:272:PRO:HA	3:GJ:292:GLN:OE1	2.10	0.51
3:GL:3:GLU:HG2	3:GL:130:LEU:HD23	1.93	0.51
15:H1:9:LEU:HG	15:H1:10:PHE:H	1.76	0.51
15:H3:214:GLN:HG2	15:H3:244:MET:HE2	1.91	0.51
15:H3:227:ARG:NH1	15:H3:230:TRP:HB2	2.25	0.51
4:HA:33:ASP:OD1	4:HA:34:GLY:N	2.43	0.51
4:HA:51:THR:HG23	4:HA:52:PHE:CD2	2.45	0.51
3:HD:378:PHE:CD1	3:HD:419:VAL:HG22	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HF:297:LYS:HE3	23:M:128:HIS:HB2	1.93	0.51
3:HF:324:LYS:NZ	4:HG:222:PRO:O	2.34	0.51
4:HI:6:SER:HG	4:HI:8:HIS:CE1	2.29	0.51
3:HJ:77:ARG:O	3:HJ:77:ARG:NH1	2.36	0.51
4:HK:254:GLU:OE1	4:HK:254:GLU:N	2.40	0.51
17:I1:54:ASN:O	17:I1:58:GLU:N	2.36	0.51
3:IB:120:VAL:O	3:IB:124:ALA:N	2.36	0.51
4:II:207:GLU:HB2	4:II:304:LYS:HZ1	1.75	0.51
3:IJ:176:SER:HB2	3:IJ:181:GLU:HG2	1.92	0.51
3:IJ:412:GLU:OE1	3:IJ:416:ASN:ND2	2.44	0.51
4:IK:166:LYS:N	4:IK:199:ASP:OD2	2.43	0.51
4:JI:66:VAL:HG22	4:JI:91:GLN:HB2	1.92	0.51
4:JI:208:ALA:H	4:JI:304:LYS:NZ	2.09	0.51
3:JJ:77:ARG:O	3:JJ:77:ARG:NH1	2.34	0.51
39:JL:501:GTP:O3G	39:JL:501:GTP:O3'	2.18	0.51
21:K3:237:TYR:HA	21:K3:240:GLU:HG2	1.92	0.51
4:KA:226:ASN:ND2	4:KA:367:ASP:OD2	2.43	0.51
4:KA:331:ALA:O	4:KA:334:THR:OG1	2.24	0.51
4:KC:88:HIS:CE1	4:KC:121:ARG:HH22	2.28	0.51
3:KD:316:VAL:HG22	3:KD:352:ALA:HB3	1.91	0.51
4:KE:118:VAL:HG21	4:KE:153:LEU:HD11	1.92	0.51
3:KH:263:LEU:HD12	3:KH:370:ASN:HD21	1.75	0.51
3:KH:398:TYR:HB3	3:KH:403:MET:CB	2.40	0.51
4:KI:1:MET:O	4:KI:131:GLY:HA3	2.10	0.51
3:KJ:39:ASP:OD1	3:KJ:43:GLN:NE2	2.43	0.51
4:KK:186:ASN:HA	4:KK:189:LEU:HD12	1.93	0.51
4:KK:207:GLU:HB2	4:KK:304:LYS:NZ	2.25	0.51
22:L2:168:ALA:O	22:L2:172:TYR:N	2.44	0.51
22:L2:193:ARG:CZ	22:L2:249:ILE:HA	2.41	0.51
3:LB:6:HIS:HB3	3:LB:21:TRP:HZ2	1.74	0.51
4:LC:217:LEU:HD13	4:LC:277:SER:HA	1.92	0.51
4:LC:322:ASP:OD2	4:LC:373:ARG:NH2	2.43	0.51
4:LC:388:TRP:HB3	4:LC:425:LEU:HD11	1.91	0.51
4:LE:349:THR:HG23	3:LF:179:VAL:HG12	1.92	0.51
3:LF:11:GLN:OE1	39:LF:501:GTP:N2	2.44	0.51
4:LG:420:GLU:HA	4:LG:423:GLU:OE2	2.11	0.51
4:LG:427:ALA:HA	4:LG:430:LYS:HG2	1.93	0.51
3:LH:190:HIS:ND1	3:LH:411:ALA:HA	2.26	0.51
4:LI:254:GLU:OE1	4:LI:254:GLU:N	2.40	0.51
3:LJ:372:THR:HG21	3:LJ:426:GLN:HG3	1.92	0.51
4:LK:104:ALA:HA	4:LK:107:HIS:HB3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LL:4:ILE:HD11	3:LL:131:GLN:HB2	1.92	0.51
3:LL:134:GLN:HA	3:LL:165:ASN:HB3	1.92	0.51
3:MB:211:CYS:HA	3:MB:215:LEU:HB2	1.92	0.51
3:MD:375:GLN:HA	3:MD:378:PHE:CE1	2.45	0.51
4:MG:12:ALA:HB1	39:MG:501:GTP:C2	2.46	0.51
4:MG:366:GLY:O	27:P:227:ARG:NH1	2.44	0.51
4:MI:244:PHE:HB2	4:MI:356:ASN:HD21	1.75	0.51
3:MJ:182:PRO:HB3	3:MJ:381:ILE:HD11	1.92	0.51
3:ML:176:SER:O	3:ML:178:THR:N	2.44	0.51
3:ML:324:LYS:NZ	4:MM:222:PRO:O	2.24	0.51
4:MM:272:TYR:HE1	4:MM:374:ALA:HB1	1.75	0.51
4:NA:316:CYS:HB3	4:NA:378:LEU:HB3	1.92	0.51
3:NB:47:ILE:HG12	3:NB:59:TYR:CD2	2.45	0.51
3:NB:235:GLY:O	3:NB:238:THR:OG1	2.23	0.51
3:ND:204:ASN:HA	3:ND:207:LEU:HD12	1.91	0.51
3:ND:222:TYR:HA	3:ND:225:LEU:HD13	1.92	0.51
3:ND:257:MET:HE1	3:ND:314:ALA:HB2	1.92	0.51
4:NE:50:ASN:OD1	4:NE:51:THR:N	2.43	0.51
4:NE:244:PHE:HB2	4:NE:356:ASN:HD21	1.76	0.51
3:NF:378:PHE:CD1	3:NF:419:VAL:HG22	2.46	0.51
3:NH:12:CYS:SG	39:NH:501:GTP:H5'	2.50	0.51
3:NL:28:HIS:ND1	3:NL:43:GLN:HB2	2.26	0.51
28:O1:100:PRO:HA	28:O1:103:LEU:HB2	1.93	0.51
3:OB:344:TRP:HD1	4:OC:401:LYS:HD2	1.74	0.51
3:OD:41:ASP:N	3:OD:41:ASP:OD1	2.42	0.51
4:OE:184:PRO:HG2	4:OE:398:MET:HE1	1.91	0.51
3:OF:84:ILE:O	3:OF:86:ARG:NH1	2.43	0.51
3:OF:258:VAL:O	4:OG:407:TRP:NE1	2.40	0.51
4:OG:2:ARG:HA	4:OG:133:GLN:HE22	1.74	0.51
39:OH:501:GTP:O3G	39:OH:501:GTP:O3'	2.23	0.51
4:OI:66:VAL:HG12	4:OI:68:VAL:HG13	1.93	0.51
3:OJ:12:CYS:HA	39:OJ:501:GTP:N2	2.25	0.51
3:OJ:328:GLU:OE1	3:OJ:332:ASN:ND2	2.43	0.51
3:OL:306:ARG:O	3:OL:306:ARG:NE	2.40	0.51
3:OL:372:THR:HB	3:OL:375:GLN:HE22	1.76	0.51
27:P:223:GLU:O	27:P:227:ARG:HG3	2.11	0.51
29:P1:532:PHE:O	36:Y:77:HIS:NE2	2.44	0.51
3:PB:61:PRO:HD3	3:PB:84:ILE:HG13	1.92	0.51
3:PF:182:PRO:HB3	3:PF:381:ILE:HD11	1.92	0.51
3:PH:292:GLN:O	3:PH:298:ASN:ND2	2.35	0.51
4:PI:182:VAL:HA	4:PI:185:TYR:CD2	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PJ:350:LYS:HE3	4:PK:181:VAL:H	1.75	0.51
4:PK:22:GLU:O	4:PK:26:LEU:HD23	2.10	0.51
4:PK:187:SER:O	4:PK:190:THR:OG1	2.27	0.51
4:PM:33:ASP:OD1	4:PM:34:GLY:N	2.43	0.51
4:PM:76:ASP:OD1	4:PM:79:ARG:NH1	2.43	0.51
30:Q2:1461:TYR:HE2	30:Q2:1477:VAL:HB	1.74	0.51
30:Q3:1359:SER:HA	30:Q3:1393:LYS:HA	1.92	0.51
4:QE:10:GLY:HA2	4:QE:145:THR:OG1	2.09	0.51
4:QE:316:CYS:N	4:QE:378:LEU:O	2.43	0.51
4:QE:319:TYR:HB2	4:QE:355:ILE:HD13	1.92	0.51
3:QF:32:PRO:C	3:QF:83:GLN:HE21	2.18	0.51
3:QF:344:TRP:HZ3	4:QG:401:LYS:HB2	1.75	0.51
4:QG:88:HIS:O	4:QG:91:GLN:HG3	2.11	0.51
4:QG:120:ASP:OD1	4:QG:123:ARG:NH1	2.43	0.51
3:QJ:7:LEU:HB2	3:QJ:135:LEU:HG	1.91	0.51
3:QL:77:ARG:O	3:QL:77:ARG:NH1	2.37	0.51
4:QM:21:TRP:HD1	4:QM:53:PHE:HE1	1.58	0.51
4:QM:214:ARG:NH1	4:QM:215:ARG:HG3	2.25	0.51
3:RB:216:LYS:HE3	3:RB:276:ARG:N	2.25	0.51
3:RD:295:ASP:HB2	3:RD:298:ASN:HB2	1.93	0.51
3:RF:176:SER:O	3:RF:178:THR:N	2.44	0.51
3:RH:302:ALA:HB1	3:RH:377:LEU:HD21	1.91	0.51
4:RI:113:GLU:OE1	4:RI:113:GLU:N	2.44	0.51
3:RJ:206:ALA:O	3:RJ:210:ILE:HG12	2.11	0.51
3:RJ:350:LYS:HE3	4:RK:180:ALA:HA	1.93	0.51
4:RK:263:PRO:C	4:RK:264:ARG:HD3	2.35	0.51
4:RM:54:SER:N	4:RM:62:VAL:O	2.43	0.51
4:RM:331:ALA:O	4:RM:334:THR:OG1	2.25	0.51
4:SC:30:ILE:HD13	4:SC:36:MET:HE3	1.93	0.51
3:SD:132:GLY:HA2	3:SD:162:ARG:HB3	1.93	0.51
4:SE:113:GLU:N	4:SE:113:GLU:OE1	2.44	0.51
4:SE:119:LEU:HD23	4:SE:122:ILE:HD11	1.93	0.51
4:SE:204:VAL:HA	4:SE:302:MET:CE	2.40	0.51
3:SF:255:VAL:HA	4:SG:407:TRP:CE2	2.46	0.51
3:SF:285:THR:O	3:SF:288:GLU:HG3	2.11	0.51
3:SH:3:GLU:HG2	3:SH:130:LEU:HD23	1.93	0.51
3:SH:193:VAL:HG11	3:SH:414:ASN:HD21	1.75	0.51
3:SJ:149:THR:HG21	3:SJ:188:SER:HA	1.92	0.51
4:SK:321:GLY:HA3	4:SK:372:GLN:O	2.10	0.51
3:SL:261:PRO:O	3:SL:264:HIS:NE2	2.43	0.51
3:SL:372:THR:HB	3:SL:375:GLN:HE22	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TD:239:CYS:SG	3:TD:316:VAL:HG21	2.50	0.51
3:TF:269:GLY:N	3:TF:367:PHE:O	2.44	0.51
4:TG:46:ASP:OD1	4:TG:50:ASN:ND2	2.37	0.51
4:TG:122:ILE:HD13	4:TG:157:LEU:HD11	1.91	0.51
3:TH:279:GLN:HB2	36:Z:405:LYS:NZ	2.26	0.51
3:TJ:83:GLN:O	3:TJ:86:ARG:NH2	2.44	0.51
3:TJ:269:GLY:N	3:TJ:367:PHE:O	2.43	0.51
3:TL:109:GLY:O	3:TL:113:VAL:HG13	2.10	0.51
3:TL:234:SER:O	3:TL:238:THR:HG23	2.11	0.51
4:TM:50:ASN:O	4:TM:64:ARG:NH1	2.44	0.51
4:TM:52:PHE:HZ	4:TM:239:THR:HB	1.75	0.51
4:UE:260:VAL:HG23	4:UE:265:ILE:O	2.10	0.51
3:UF:48:ASN:HA	3:UF:51:TYR:O	2.10	0.51
3:UF:217:LEU:HD11	3:UF:220:PRO:HB3	1.92	0.51
3:UH:6:HIS:HB2	3:UH:134:GLN:NE2	2.25	0.51
4:UI:171:ILE:HD12	4:UI:204:VAL:HG13	1.92	0.51
3:UJ:3:GLU:OE2	3:UJ:127:CYS:HB2	2.10	0.51
3:UJ:173:PRO:O	3:UJ:380:ARG:NH2	2.44	0.51
3:UL:158:GLU:HG2	3:UL:159:TYR:CD2	2.46	0.51
4:VC:9:VAL:HA	4:VC:68:VAL:HG23	1.91	0.51
4:VC:375:VAL:HG13	4:VC:377:MET:SD	2.51	0.51
4:VI:208:ALA:H	4:VI:304:LYS:NZ	2.07	0.51
3:VJ:317:PHE:O	3:VJ:354:CYS:N	2.34	0.51
4:VK:2:ARG:NH1	4:VK:241:SER:O	2.43	0.51
4:VK:35:GLN:HG2	4:VK:59:GLY:O	2.10	0.51
4:VK:262:TYR:OH	3:VL:391:ARG:O	2.28	0.51
3:VL:12:CYS:SG	3:VL:13:GLY:N	2.84	0.51
3:VL:114:ASP:N	3:VL:114:ASP:OD1	2.44	0.51
3:WD:46:ARG:HH22	4:WE:73:THR:HG23	1.75	0.51
3:WF:375:GLN:HA	3:WF:378:PHE:CZ	2.45	0.51
4:WI:326:LYS:HZ3	3:WJ:211:CYS:HB3	1.76	0.51
3:WJ:21:TRP:CZ2	3:WJ:63:ALA:HB2	2.45	0.51
35:XI:58:LYS:HA	35:XI:61:GLU:HB2	1.91	0.51
35:XJ:145:ASN:HB3	35:XJ:148:ILE:HD12	1.93	0.51
37:YE:137:VAL:HG13	37:YE:138:VAL:HG13	1.93	0.51
37:YF:112:SER:HA	37:YF:135:GLY:HA3	1.91	0.51
37:YM:154:HIS:HD2	37:YM:157:LYS:HB2	1.76	0.51
37:YO:93:THR:HB	37:YO:151:TRP:CD1	2.45	0.51
37:YT:11:ILE:HA	37:YT:14:LYS:HD2	1.92	0.51
37:YT:80:CYS:HA	37:YT:83:PHE:HD2	1.75	0.51
37:YV:133:HIS:HB2	37:YV:134:TYR:CD2	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A3:38:VAL:O	2:A3:41:SER:OG	2.21	0.51
2:A3:367:ARG:NH1	14:G6:182:GLY:HA2	2.25	0.51
3:AB:11:GLN:NE2	39:AB:501:GTP:O1G	2.34	0.51
3:AD:151:LEU:HD22	3:AD:154:LYS:HZ1	1.76	0.51
4:AG:6:SER:HA	4:AG:136:LEU:HB2	1.92	0.51
4:AG:288:VAL:O	4:AG:292:THR:OG1	2.22	0.51
4:AG:331:ALA:O	4:AG:334:THR:OG1	2.27	0.51
3:AH:305:PRO:HA	3:AH:373:ALA:HB2	1.93	0.51
4:AK:9:VAL:HA	4:AK:68:VAL:HG23	1.93	0.51
4:AK:417:GLU:HA	4:AK:420:GLU:HG2	1.92	0.51
3:AL:176:SER:O	3:AL:178:THR:N	2.44	0.51
3:AL:250:LEU:HD13	3:AL:253:LEU:HD12	1.92	0.51
3:AL:347:ASN:HB3	4:AM:178:SER:HB3	1.92	0.51
3:AL:410:GLU:HA	3:AL:413:SER:HB3	1.91	0.51
1:B:385:GLU:HA	1:B:388:ARG:HG2	1.93	0.51
5:B7:120:ARG:HH11	5:B7:120:ARG:HG2	1.75	0.51
5:B8:167:GLU:HA	5:B8:170:GLN:HG3	1.93	0.51
3:BD:80:PRO:O	3:BD:83:GLN:NE2	2.40	0.51
4:BI:11:GLN:O	4:BI:14:VAL:HG22	2.10	0.51
4:BK:81:GLY:O	4:BK:84:ARG:NH1	2.43	0.51
4:BK:108:TYR:O	4:BK:112:LYS:NZ	2.28	0.51
4:BK:155:GLU:CD	4:BK:156:ARG:HE	2.19	0.51
3:BL:3:GLU:HG2	3:BL:130:LEU:HD23	1.92	0.51
3:BL:55:THR:HA	15:H6:28:ARG:NH1	2.26	0.51
4:BM:5:ILE:HD13	4:BM:64:ARG:HB3	1.92	0.51
6:C:266:HIS:HB3	6:C:320:GLU:HG2	1.92	0.51
7:C3:231:GLU:OE2	7:C3:235:GLN:NE2	2.43	0.51
7:C3:472:LYS:O	7:C3:475:SER:OG	2.26	0.51
7:C4:130:ASP:OD1	7:C4:131:LYS:N	2.43	0.51
7:C8:171:THR:HG21	7:C8:251:GLN:NE2	2.26	0.51
3:CD:305:PRO:HB2	3:CD:310:TYR:HE1	1.74	0.51
4:CE:234:ILE:HD11	4:CE:272:TYR:HB2	1.91	0.51
3:CF:206:ALA:O	3:CF:210:ILE:HG12	2.11	0.51
3:CF:309:ARG:O	3:CF:371:SER:OG	2.24	0.51
4:CI:98:ASP:O	4:CI:105:ARG:NH2	2.36	0.51
3:CJ:372:THR:HB	3:CJ:375:GLN:HE22	1.76	0.51
3:CJ:375:GLN:HA	3:CJ:378:PHE:CZ	2.45	0.51
4:CK:36:MET:HE2	4:CK:36:MET:N	2.26	0.51
4:CK:135:PHE:HD2	4:CK:166:LYS:HG3	1.75	0.51
3:CL:25:SER:O	3:CL:29:GLY:N	2.44	0.51
3:CL:239:CYS:SG	3:CL:316:VAL:HG11	2.50	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Cb:397:GLN:HE22	7:Cc:283:TYR:HD2	1.56	0.51
7:Cb:397:GLN:O	7:Cc:284:PHE:HZ	1.94	0.51
8:D2:54:ASP:N	8:D2:54:ASP:OD1	2.43	0.51
8:D3:197:ALA:O	8:D3:201:ILE:HG12	2.10	0.51
8:D4:97:LEU:HB2	8:D4:101:ARG:HH22	1.76	0.51
8:D4:149:TYR:HB2	8:D4:183:ILE:HG21	1.93	0.51
3:DB:176:SER:O	3:DB:178:THR:N	2.44	0.51
3:DF:385:PHE:HZ	3:DF:408:PHE:HB3	1.75	0.51
4:DG:319:TYR:N	4:DG:354:GLY:O	2.43	0.51
3:DH:328:GLU:OE1	3:DH:332:ASN:ND2	2.41	0.51
3:DJ:385:PHE:HZ	3:DJ:408:PHE:HB3	1.76	0.51
4:DK:105:ARG:HG2	4:DK:109:THR:HG21	1.92	0.51
4:DK:113:GLU:OE1	4:DK:113:GLU:N	2.42	0.51
9:E:829:VAL:HG13	9:E:834:ILE:HD11	1.91	0.51
4:EA:161:TYR:HB3	4:EA:164:LYS:HZ2	1.75	0.51
3:EB:198:GLU:HA	3:EB:266:PHE:CE2	2.43	0.51
4:EE:15:GLN:OE1	4:EE:15:GLN:N	2.40	0.51
3:EF:132:GLY:HA2	3:EF:162:ARG:HB3	1.91	0.51
3:EF:139:LEU:N	3:EF:168:SER:OG	2.43	0.51
3:EF:269:GLY:N	3:EF:367:PHE:O	2.43	0.51
3:EH:206:ALA:O	3:EH:210:ILE:HG12	2.11	0.51
3:EH:249:ASP:HB3	3:EH:252:LYS:HB2	1.92	0.51
3:EH:269:GLY:O	3:EH:367:PHE:N	2.28	0.51
4:EI:137:ILE:HB	4:EI:168:GLU:HA	1.93	0.51
4:EI:224:TYR:CE2	39:EI:501:GTP:C6	2.99	0.51
4:EK:113:GLU:OE1	4:EK:113:GLU:N	2.43	0.51
4:EK:214:ARG:NH1	4:EK:215:ARG:HG3	2.26	0.51
11:F3:470:MET:HA	11:F3:473:ARG:NH1	2.26	0.51
11:F5:131:ILE:O	11:F5:135:GLN:HG2	2.10	0.51
11:F9:336:PHE:O	11:F9:339:THR:OG1	2.23	0.51
4:FA:105:ARG:O	4:FA:109:THR:OG1	2.19	0.51
3:FD:345:ILE:HD12	3:FD:346:PRO:HD2	1.92	0.51
3:FD:406:MET:O	3:FD:409:THR:OG1	2.26	0.51
4:FE:288:VAL:HG11	4:FE:327:ASP:HB2	1.92	0.51
4:FI:115:VAL:HA	4:FI:118:VAL:HG22	1.93	0.51
11:Fb:348:SER:OG	11:Fb:349:GLU:OE1	2.24	0.51
11:Fg:469:CYS:HA	11:Fg:472:MET:HG2	1.93	0.51
11:Fm:119:ASP:O	11:Fm:122:ARG:HG3	2.11	0.51
12:G:176:VAL:HG13	4:GK:370:LYS:CD	2.41	0.51
13:G2:280:GLU:HG2	13:G2:281:ARG:N	2.25	0.51
14:G4:548:ALA:HA	14:G4:551:LYS:HE2	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G5:201:ARG:NH1	14:G5:202:GLU:HB3	2.26	0.51
14:G6:262:ILE:HG22	14:G6:278:PHE:HB3	1.92	0.51
4:GA:206:ASN:HA	4:GA:209:ILE:HD12	1.93	0.51
3:GB:321:MET:SD	3:GB:321:MET:N	2.83	0.51
4:GE:433:GLU:O	4:GE:437:VAL:N	2.39	0.51
3:GF:392:LYS:HB2	3:GF:395:LEU:HD13	1.91	0.51
4:GI:392:ASP:OD1	4:GI:393:HIS:N	2.44	0.51
3:GJ:380:ARG:O	3:GJ:384:GLN:HG2	2.10	0.51
4:HA:320:ARG:HD3	4:HA:360:PRO:HG3	1.92	0.51
3:HB:328:GLU:O	3:HB:332:ASN:N	2.42	0.51
3:HD:119:VAL:O	3:HD:122:LYS:HG2	2.10	0.51
3:HD:249:ASP:HB3	3:HD:252:LYS:HB2	1.93	0.51
3:HF:28:HIS:ND1	3:HF:43:GLN:HB2	2.24	0.51
3:HF:77:ARG:O	3:HF:77:ARG:NH1	2.38	0.51
3:HF:250:LEU:HD13	3:HF:253:LEU:HD12	1.93	0.51
4:HI:89:PRO:HD2	4:II:280:LYS:HZ3	1.76	0.51
3:HJ:315:ALA:HA	3:HJ:367:PHE:HA	1.93	0.51
3:IB:172:SER:OG	3:IB:205:GLU:OE2	2.18	0.51
3:IB:269:GLY:N	3:IB:367:PHE:O	2.43	0.51
3:ID:183:TYR:CD1	3:ID:388:MET:HE3	2.45	0.51
3:IF:117:LEU:HA	3:IF:120:VAL:HG12	1.93	0.51
3:IF:285:THR:O	3:IF:288:GLU:HG3	2.11	0.51
3:IF:415:MET:O	3:IF:419:VAL:HG23	2.11	0.51
4:IG:287:SER:OG	4:IG:290:GLU:OE1	2.27	0.51
3:IH:217:LEU:HD11	3:IH:220:PRO:HB3	1.93	0.51
3:IJ:11:GLN:O	3:IJ:15:GLN:NE2	2.43	0.51
3:IL:83:GLN:O	3:IL:86:ARG:NH2	2.44	0.51
3:IL:176:SER:O	3:IL:178:THR:N	2.43	0.51
19:J3:55:ALA:HA	19:J3:71:PRO:HA	1.92	0.51
3:JD:3:GLU:OE2	3:JD:129:CYS:N	2.44	0.51
4:JE:9:VAL:HG11	4:JE:150:ALA:HB2	1.92	0.51
4:JK:256:GLN:HE22	3:JL:397:TRP:HE1	1.58	0.51
3:JL:176:SER:O	3:JL:178:THR:N	2.43	0.51
21:K4:464:ARG:O	21:K4:464:ARG:NH1	2.36	0.51
4:KC:256:GLN:O	4:KC:260:VAL:HG12	2.10	0.51
4:KI:320:ARG:HE	4:KI:358:GLN:HG3	1.76	0.51
3:KL:11:GLN:HE21	39:KL:501:GTP:H3'	1.76	0.51
3:KL:362:LYS:NZ	32:T:361:PHE:O	2.41	0.51
22:L2:222:PRO:C	22:L2:226:ARG:HE	2.18	0.51
4:LA:113:GLU:N	4:LA:113:GLU:OE1	2.40	0.51
4:LA:171:ILE:HD12	4:LA:204:VAL:HG13	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LB:151:LEU:HA	3:LB:154:LYS:HG2	1.93	0.51
3:LB:289:LEU:HD21	3:LB:363:MET:HB3	1.91	0.51
4:LE:52:PHE:HZ	4:LE:239:THR:HB	1.76	0.51
4:LE:345:ASP:N	4:LE:345:ASP:OD1	2.44	0.51
3:LF:423:GLN:CB	24:M2:84:LEU:HD11	2.40	0.51
4:LG:74:VAL:O	4:LG:77:GLU:HG2	2.10	0.51
4:LG:272:TYR:CZ	4:LG:274:PRO:HG2	2.46	0.51
4:LI:370:LYS:HD2	27:R:284:ILE:HG23	1.91	0.51
3:MB:16:ILE:HD13	3:MB:226:ASN:ND2	2.26	0.51
3:MB:258:VAL:HB	4:MC:407:TRP:HZ2	1.76	0.51
3:MB:350:LYS:HE3	4:MC:180:ALA:HA	1.91	0.51
3:MD:120:VAL:O	3:MD:124:ALA:N	2.34	0.51
3:MD:378:PHE:CD1	3:MD:419:VAL:HG22	2.46	0.51
4:ME:141:PHE:HE2	4:ME:203:MET:HG3	1.76	0.51
4:MG:285:GLN:HE22	4:MG:287:SER:HB3	1.76	0.51
3:MJ:7:LEU:HD13	3:MJ:64:VAL:HB	1.91	0.51
4:MK:2:ARG:NH1	4:MK:242:LEU:HA	2.26	0.51
4:MK:239:THR:OG1	4:MK:243:ARG:NH1	2.43	0.51
4:MK:272:TYR:HE1	4:MK:374:ALA:HB1	1.76	0.51
3:ML:213:ARG:NE	3:ML:297:LYS:HB3	2.25	0.51
4:MM:188:ILE:HG13	4:MM:421:ALA:HB1	1.93	0.51
4:MM:370:LYS:HE2	27:P:43:ALA:HB2	1.93	0.51
26:N3:166:PHE:CE1	4:WI:218:ASP:HA	2.45	0.51
4:NA:51:THR:HG23	4:NA:52:PHE:CD2	2.45	0.51
4:NA:223:THR:OG1	4:NA:225:THR:OG1	2.19	0.51
4:NE:265:ILE:HD12	4:NE:432:TYR:CE1	2.46	0.51
4:NG:54:SER:HB2	4:NG:62:VAL:HB	1.93	0.51
4:NG:103:TYR:HB2	4:NG:186:ASN:HB2	1.92	0.51
4:NG:394:LYS:O	4:NG:398:MET:HG2	2.10	0.51
3:NH:201:CYS:HB2	3:NH:267:MET:HE1	1.92	0.51
3:NH:375:GLN:HA	3:NH:378:PHE:CZ	2.46	0.51
4:NI:104:ALA:HA	4:NI:107:HIS:HB3	1.93	0.51
3:NL:375:GLN:HA	3:NL:378:PHE:CZ	2.45	0.51
28:O3:100:PRO:HA	28:O3:103:LEU:HB2	1.92	0.51
3:OB:410:GLU:HA	3:OB:413:SER:HB3	1.92	0.51
4:OC:411:GLU:OE2	4:OC:413:MET:HE1	2.10	0.51
4:OE:102:ASN:HB3	4:OE:105:ARG:HB2	1.93	0.51
4:OE:287:SER:N	4:OE:290:GLU:OE2	2.44	0.51
4:OG:120:ASP:HA	4:OG:123:ARG:HD3	1.92	0.51
3:OH:218:THR:OG1	3:OH:219:THR:N	2.44	0.51
3:OJ:3:GLU:OE2	3:OJ:127:CYS:HB2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:OK:2:ARG:HA	4:OK:133:GLN:HE22	1.75	0.51
4:OK:146:GLY:N	39:OK:501:GTP:O2B	2.44	0.51
4:OK:206:ASN:HA	4:OK:209:ILE:HD12	1.92	0.51
3:OL:235:GLY:O	3:OL:238:THR:OG1	2.23	0.51
29:P1:568:LEU:HD22	29:P1:584:VAL:HG22	1.92	0.51
3:PD:421:GLU:HG2	3:PD:425:TYR:HE2	1.76	0.51
3:PF:309:ARG:H	3:PF:372:THR:HG1	1.55	0.51
3:PH:234:SER:O	3:PH:238:THR:HG23	2.11	0.51
4:PI:214:ARG:NH1	4:PI:215:ARG:HG3	2.25	0.51
4:PK:262:TYR:CE1	3:PL:393:ALA:HA	2.45	0.51
30:Q2:1372:LEU:HB3	30:Q2:1374:ILE:HG22	1.91	0.51
30:Q3:1461:TYR:HD2	30:Q3:1469:LEU:HD11	1.75	0.51
3:QB:43:GLN:HA	3:QB:241:ARG:NH2	2.26	0.51
3:QF:28:HIS:O	3:QF:43:GLN:NE2	2.43	0.51
4:QI:22:GLU:O	4:QI:26:LEU:HD23	2.10	0.51
3:RB:412:GLU:OE1	3:RB:416:ASN:ND2	2.44	0.51
4:RC:351:PHE:CZ	3:RD:175:VAL:CG2	2.94	0.51
3:RF:4:ILE:HB	3:RF:50:TYR:CE1	2.45	0.51
3:RJ:267:MET:O	3:RJ:368:ILE:HD12	2.10	0.51
3:RJ:273:LEU:H	3:RJ:292:GLN:HE22	1.58	0.51
3:SB:153:SER:HB3	3:SB:191:GLN:NE2	2.26	0.51
3:SD:323:MET:SD	3:SD:323:MET:N	2.82	0.51
4:SG:258:ASN:HA	3:SH:394:PHE:HE2	1.76	0.51
4:SG:306:ASP:OD2	4:SG:309:HIS:ND1	2.43	0.51
3:SJ:285:THR:O	3:SJ:288:GLU:HG3	2.11	0.51
4:SK:9:VAL:HA	4:SK:68:VAL:HG23	1.93	0.51
4:SK:312:TYR:HB2	4:SK:343:PHE:HA	1.92	0.51
3:TB:285:THR:O	3:TB:288:GLU:HG3	2.11	0.51
3:TD:175:VAL:HG22	3:TD:177:ASP:H	1.75	0.51
3:TF:379:LYS:O	3:TF:382:SER:OG	2.19	0.51
3:TH:83:GLN:O	3:TH:86:ARG:NH2	2.44	0.51
3:TJ:317:PHE:O	3:TJ:354:CYS:N	2.32	0.51
3:TJ:324:LYS:HD3	4:TK:210:TYR:CE1	2.46	0.51
4:TK:2:ARG:HA	4:TK:133:GLN:HE22	1.76	0.51
3:TL:347:ASN:HB3	4:TM:178:SER:HB3	1.92	0.51
4:UG:145:THR:OG1	39:UG:501:GTP:O1B	2.26	0.51
4:UG:395:PHE:HA	4:UG:398:MET:HE2	1.93	0.51
3:UH:240:LEU:HD22	3:UH:248:ALA:HB1	1.93	0.51
3:UJ:70:PRO:HA	3:UJ:73:MET:HE3	1.92	0.51
3:UJ:375:GLN:HA	3:UJ:378:PHE:CZ	2.46	0.51
3:VF:58:LYS:HE2	3:WF:281:TYR:HE1	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:VG:1:MET:SD	4:VG:2:ARG:N	2.84	0.51
3:VJ:139:LEU:N	3:VJ:168:SER:OG	2.43	0.51
4:VK:287:SER:OG	4:VK:290:GLU:OE1	2.26	0.51
3:VL:9:ALA:HB3	3:VL:137:HIS:HB3	1.93	0.51
3:VL:12:CYS:HA	39:VL:501:GTP:HN22	1.74	0.51
3:VL:189:VAL:HA	3:VL:192:LEU:HB2	1.93	0.51
33:W:229:ASP:OD1	33:W:230:HIS:N	2.43	0.51
3:WB:28:HIS:O	3:WB:43:GLN:NE2	2.43	0.51
3:WH:295:ASP:HB2	3:WH:298:ASN:HB2	1.93	0.51
4:WI:264:ARG:O	4:WI:266:HIS:ND1	2.44	0.51
3:WJ:70:PRO:HG3	35:XL:74:LYS:HD2	1.92	0.51
34:XA:14:LEU:HB2	34:XA:25:TRP:NE1	2.25	0.51
34:XG:138:ASP:OD1	34:XG:141:ARG:NH2	2.44	0.51
37:YH:116:LYS:O	37:YH:119:HIS:ND1	2.39	0.51
37:YH:155:SER:HA	37:YH:158:LEU:HG	1.92	0.51
37:YL:33:ARG:NH2	37:YL:134:TYR:OH	2.37	0.51
37:YQ:157:LYS:HZ1	37:YR:108:ASN:HA	1.75	0.51
37:YS:113:LEU:O	37:YS:113:LEU:HD23	2.11	0.51
2:A1:89:ASP:O	2:A1:93:THR:HG23	2.11	0.51
2:A1:284:LYS:HG2	2:A2:31:ARG:NH2	2.26	0.51
2:A3:84:LEU:HD22	2:A3:168:LYS:HB2	1.92	0.51
3:AF:323:MET:SD	3:AF:324:LYS:NZ	2.79	0.51
4:AG:103:TYR:HB2	4:AG:186:ASN:HB2	1.93	0.51
3:AH:250:LEU:HD13	3:AH:253:LEU:HD12	1.92	0.51
4:AI:263:PRO:HB2	4:AI:264:ARG:HH11	1.75	0.51
4:AK:115:VAL:HA	4:AK:118:VAL:HG12	1.91	0.51
4:AK:185:TYR:OH	4:AK:403:ALA:O	2.17	0.51
3:AL:8:GLN:NE2	3:AL:136:THR:OG1	2.44	0.51
3:AL:140:GLY:HA2	3:AL:181:GLU:OE2	2.11	0.51
5:B1:118:THR:HA	5:B1:121:GLU:HG2	1.91	0.51
5:B1:334:THR:O	5:B1:338:LEU:HG	2.11	0.51
3:BB:282:ARG:NH2	3:BB:292:GLN:OE1	2.33	0.51
3:BD:350:LYS:HE3	4:BE:180:ALA:HA	1.92	0.51
3:BF:39:ASP:OD1	3:BF:43:GLN:NE2	2.44	0.51
4:BI:6:SER:HA	4:BI:136:LEU:HB2	1.92	0.51
4:BI:76:ASP:O	4:BI:80:THR:HG23	2.11	0.51
4:BK:1:MET:SD	4:BK:2:ARG:N	2.84	0.51
39:BM:501:GTP:N3	39:BM:501:GTP:O4'	2.44	0.51
7:C2:286:GLY:O	7:C2:289:ARG:NH1	2.44	0.51
7:C3:357:ALA:HA	7:C3:360:LYS:HZ3	1.75	0.51
7:C4:363:THR:O	7:C4:366:THR:OG1	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C4:380:GLU:HA	7:C4:383:LYS:HE2	1.92	0.51
7:C6:116:ASN:HA	7:C6:119:ARG:NE	2.25	0.51
7:C7:165:ASP:OD1	8:D8:241:TYR:HB2	2.10	0.51
7:C7:419:ARG:O	7:C7:423:GLU:HG2	2.11	0.51
7:C8:231:GLU:HA	7:C8:234:ARG:NE	2.26	0.51
7:C9:167:MET:HE1	7:C9:315:ARG:HB2	1.92	0.51
4:CC:272:TYR:CZ	4:CC:274:PRO:HG2	2.44	0.51
4:CC:332:ILE:HG13	4:CC:336:LYS:HE3	1.93	0.51
3:CD:47:ILE:HG22	15:H2:224:PHE:CZ	2.46	0.51
4:CE:79:ARG:HB3	15:H2:218:ILE:HD12	1.93	0.51
4:CG:265:ILE:HD12	4:CG:265:ILE:H	1.76	0.51
3:CH:132:GLY:HA3	3:CH:163:ILE:HB	1.92	0.51
3:CJ:66:VAL:HA	3:CJ:91:VAL:O	2.11	0.51
4:CM:230:LEU:O	4:CM:234:ILE:HG12	2.11	0.51
7:Ca:473:CYS:O	7:Ca:477:ARG:HG3	2.10	0.51
7:Cb:389:LYS:HZ2	7:Cb:430:THR:HG22	1.76	0.51
7:Cc:154:ALA:O	7:Cc:157:LYS:HG2	2.11	0.51
7:Cc:193:GLN:HA	7:Cc:196:ARG:HG2	1.92	0.51
8:D2:255:GLU:OE1	8:D2:255:GLU:N	2.36	0.51
8:D7:116:GLU:HG3	11:F1:474:LYS:NZ	2.25	0.51
8:D7:291:GLU:O	8:D7:295:LEU:HG	2.11	0.51
8:D9:314:SER:O	8:D9:318:LEU:HG	2.10	0.51
4:DA:53:PHE:O	4:DA:64:ARG:NH1	2.44	0.51
3:DB:246:LEU:HB3	3:DB:353:VAL:O	2.11	0.51
4:DE:49:PHE:O	4:DE:53:PHE:N	2.41	0.51
3:DF:347:ASN:HB3	4:DG:178:SER:HB3	1.91	0.51
4:DI:50:ASN:O	4:DI:64:ARG:NH1	2.43	0.51
3:DJ:13:GLY:HA2	3:DJ:16:ILE:HB	1.92	0.51
3:DJ:172:SER:HB3	3:DJ:175:VAL:O	2.11	0.51
3:DJ:246:LEU:HD22	3:DJ:354:CYS:HA	1.92	0.51
3:DL:152:ILE:O	3:DL:156:ARG:HG2	2.11	0.51
10:E1:91:HIS:O	10:E1:95:HIS:N	2.37	0.51
10:E3:183:PHE:HB3	10:E3:184:ARG:NH1	2.26	0.51
3:EB:12:CYS:HA	39:EB:501:GTP:N2	2.25	0.51
3:EB:16:ILE:HD13	3:EB:226:ASN:ND2	2.21	0.51
4:EC:145:THR:HG23	39:EC:501:GTP:O3B	2.09	0.51
3:ED:275:SER:O	3:ED:279:GLN:NE2	2.44	0.51
4:EE:50:ASN:O	4:EE:64:ARG:NH1	2.44	0.51
3:EF:415:MET:O	3:EF:419:VAL:HG23	2.09	0.51
4:EG:331:ALA:O	4:EG:334:THR:OG1	2.24	0.51
3:EH:77:ARG:O	3:EH:77:ARG:NH1	2.37	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EI:12:ALA:HB1	39:EI:501:GTP:N2	2.26	0.51
3:EJ:316:VAL:HG22	3:EJ:352:ALA:HB3	1.92	0.51
4:EK:11:GLN:O	4:EK:14:VAL:HG22	2.11	0.51
3:EL:386:THR:O	3:EL:390:ARG:N	2.44	0.51
9:F:376:ILE:HG22	9:F:380:HIS:ND1	2.26	0.51
11:F1:445:VAL:O	11:F1:448:LYS:HG2	2.10	0.51
11:F2:408:CYS:HA	11:F3:296:TRP:CH2	2.46	0.51
11:F8:418:ASN:OD1	11:Fj:435:ARG:NE	2.43	0.51
4:FA:187:SER:O	4:FA:190:THR:OG1	2.25	0.51
4:FC:55:GLU:OE1	4:FC:61:HIS:NE2	2.44	0.51
4:FC:207:GLU:HB2	4:FC:304:LYS:NZ	2.23	0.51
4:FC:214:ARG:NH1	4:FC:215:ARG:HG3	2.26	0.51
3:FF:316:VAL:HG22	3:FF:352:ALA:HB3	1.92	0.51
3:FH:325:GLU:HA	3:FH:328:GLU:OE2	2.10	0.51
4:FI:324:VAL:HG11	3:FJ:219:THR:HB	1.92	0.51
4:FK:216:ASN:OD1	4:FK:217:LEU:N	2.41	0.51
3:FL:130:LEU:HB2	3:FL:162:ARG:NH1	2.24	0.51
3:FL:295:ASP:HB2	3:FL:298:ASN:HB2	1.93	0.51
11:Fe:344:ASN:HA	11:Fe:347:ILE:HD12	1.93	0.51
11:Ff:292:ILE:HG22	11:Ff:295:THR:HG23	1.92	0.51
11:Fk:238:PHE:HB3	11:Fk:241:ARG:HH21	1.76	0.51
11:Fm:263:ILE:HA	11:Fm:266:ASN:HD21	1.76	0.51
14:G4:26:TRP:CE2	3:MD:73:MET:HE1	2.46	0.51
14:G5:509:ILE:HB	14:G5:597:GLN:HA	1.92	0.51
14:G5:728:ILE:HG12	14:G5:731:LYS:HA	1.92	0.51
3:GD:246:LEU:HB2	3:GD:352:ALA:HB1	1.91	0.51
4:GE:39:ASP:OD2	23:M:68:ARG:HG3	2.10	0.51
3:GH:176:SER:O	3:GH:178:THR:N	2.43	0.51
3:GH:285:THR:O	3:GH:288:GLU:HG3	2.11	0.51
3:GH:423:GLN:O	3:GH:427:ASP:N	2.44	0.51
3:GL:28:HIS:ND1	3:GL:43:GLN:HB2	2.26	0.51
3:GL:172:SER:HB3	3:GL:175:VAL:O	2.10	0.51
4:HA:433:GLU:O	4:HA:437:VAL:N	2.40	0.51
4:HC:22:GLU:O	4:HC:26:LEU:HD23	2.10	0.51
4:HC:264:ARG:O	4:HC:266:HIS:ND1	2.42	0.51
4:HE:208:ALA:H	4:HE:304:LYS:HZ1	1.57	0.51
3:HF:357:PRO:HB3	3:HF:362:LYS:HA	1.91	0.51
4:HG:224:TYR:OH	39:HG:501:GTP:O6	2.18	0.51
4:HG:329:ASN:OD1	4:HG:330:ALA:N	2.43	0.51
4:HI:5:ILE:HD13	4:HI:64:ARG:HB3	1.91	0.51
3:HJ:239:CYS:HA	3:HJ:246:LEU:HD11	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HK:211:ASP:HB3	4:HK:215:ARG:HH21	1.75	0.51
4:IA:196:GLU:HG2	4:IA:197:HIS:ND1	2.26	0.51
3:IB:296:ALA:HA	3:IB:299:MET:HE1	1.93	0.51
4:IC:287:SER:OG	4:IC:290:GLU:OE1	2.24	0.51
3:ID:50:TYR:HE2	3:ID:241:ARG:HH21	1.59	0.51
3:ID:357:PRO:HB3	3:ID:362:LYS:HA	1.92	0.51
3:IF:101:TRP:CE3	3:IF:187:LEU:HD13	2.46	0.51
4:IK:51:THR:HG23	4:IK:52:PHE:CD2	2.46	0.51
4:IK:137:ILE:HB	4:IK:168:GLU:HA	1.91	0.51
3:IL:20:PHE:HD1	3:IL:230:SER:HB2	1.76	0.51
3:IL:218:THR:OG1	3:IL:219:THR:N	2.43	0.51
19:J1:70:VAL:HG12	19:J1:72:VAL:HG13	1.93	0.51
19:J2:146:ASN:HD21	19:J2:175:ILE:HG22	1.76	0.51
3:JF:113:VAL:HA	3:JF:116:VAL:HG22	1.92	0.51
4:JG:161:TYR:O	4:JG:166:LYS:NZ	2.44	0.51
4:JK:224:TYR:O	4:JK:228:ASN:N	2.26	0.51
3:JL:267:MET:HE1	3:JL:299:MET:HG3	1.93	0.51
3:JL:311:LEU:HD23	3:JL:342:VAL:HG11	1.93	0.51
4:KA:103:TYR:HB2	4:KA:186:ASN:HB2	1.92	0.51
3:KB:52:ASN:OD1	3:KB:62:ARG:NH1	2.43	0.51
4:KC:386:GLU:O	4:KC:390:ARG:N	2.38	0.51
3:KD:132:GLY:HA3	3:KD:163:ILE:H	1.76	0.51
4:KE:113:GLU:OE1	4:KE:113:GLU:N	2.42	0.51
3:KF:155:ILE:HA	3:KF:158:GLU:HB2	1.92	0.51
3:KF:410:GLU:HA	3:KF:413:SER:HB3	1.93	0.51
3:KH:139:LEU:HD21	3:KH:170:VAL:HG22	1.93	0.51
4:LA:216:ASN:OD1	4:LA:217:LEU:N	2.44	0.51
4:LA:252:LEU:O	4:LA:256:GLN:N	2.34	0.51
4:LE:178:SER:OG	4:LE:180:ALA:O	2.28	0.51
4:LE:259:LEU:HD21	4:LE:316:CYS:HB2	1.93	0.51
3:LF:350:LYS:HE3	4:LG:181:VAL:H	1.76	0.51
4:LG:54:SER:N	4:LG:62:VAL:O	2.44	0.51
4:LG:319:TYR:N	4:LG:354:GLY:O	2.43	0.51
3:LH:268:PRO:HD2	3:LH:301:ALA:HB2	1.92	0.51
4:LI:301:GLN:OE1	4:LI:301:GLN:N	2.43	0.51
4:LK:113:GLU:OE1	4:LK:113:GLU:N	2.41	0.51
4:LK:207:GLU:HB2	4:LK:304:LYS:NZ	2.25	0.51
4:MC:113:GLU:N	4:MC:113:GLU:OE1	2.43	0.51
4:MG:239:THR:OG1	4:MG:243:ARG:NH1	2.43	0.51
4:MG:256:GLN:HE22	3:MH:397:TRP:HE1	1.56	0.51
4:MG:306:ASP:OD2	4:MG:309:HIS:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MJ:5:VAL:HG23	3:MJ:130:LEU:HD21	1.93	0.51
3:MJ:139:LEU:N	3:MJ:168:SER:OG	2.43	0.51
3:MJ:251:ARG:HA	3:MJ:254:ALA:HB3	1.91	0.51
3:MJ:254:ALA:HA	3:MJ:257:MET:HG2	1.93	0.51
4:MK:22:GLU:HG2	4:MK:83:TYR:HE2	1.76	0.51
3:ML:166:THR:OG1	3:ML:198:GLU:O	2.22	0.51
4:MM:7:ILE:N	4:MM:136:LEU:O	2.36	0.51
4:MM:285:GLN:NE2	4:MM:286:LEU:O	2.43	0.51
4:MM:392:ASP:OD1	4:MM:393:HIS:N	2.44	0.51
25:N:77:PHE:CD1	25:N:78:PRO:HD2	2.45	0.51
26:N2:88:ASN:O	26:N2:92:ILE:HG13	2.10	0.51
3:ND:11:GLN:OE1	3:ND:15:GLN:NE2	2.44	0.51
3:ND:106:TYR:HB2	3:ND:401:GLU:OE2	2.11	0.51
3:ND:378:PHE:CD1	3:ND:419:VAL:HG22	2.45	0.51
3:NF:3:GLU:HG2	3:NF:130:LEU:HD23	1.93	0.51
4:NG:172:TYR:N	4:NG:204:VAL:O	2.31	0.51
4:NI:116:ASP:N	4:NI:116:ASP:OD1	2.44	0.51
4:NK:68:VAL:HG12	4:NK:93:ILE:HB	1.92	0.51
4:OA:88:HIS:HB3	4:OA:91:GLN:HB2	1.93	0.51
4:OC:316:CYS:HB3	4:OC:378:LEU:HB3	1.93	0.51
4:OC:386:GLU:HA	4:OC:389:ALA:HB3	1.93	0.51
3:OD:309:ARG:O	3:OD:371:SER:OG	2.24	0.51
3:OD:412:GLU:O	3:OD:416:ASN:N	2.28	0.51
4:OG:208:ALA:N	4:OG:304:LYS:HZ1	2.07	0.51
4:OG:331:ALA:O	4:OG:334:THR:OG1	2.23	0.51
3:OH:145:SER:HB2	3:OH:188:SER:HB3	1.92	0.51
3:OH:272:PRO:HA	3:OH:292:GLN:OE1	2.11	0.51
4:OI:3:GLU:OE2	4:OI:130:THR:N	2.37	0.51
4:OI:287:SER:N	4:OI:290:GLU:OE2	2.42	0.51
3:OJ:175:VAL:HG22	3:OJ:177:ASP:H	1.75	0.51
29:P2:390:ILE:HG22	29:P2:423:ILE:HD11	1.91	0.51
4:PA:188:ILE:HG12	4:PA:421:ALA:HB1	1.93	0.51
3:PB:415:MET:O	3:PB:419:VAL:HG23	2.11	0.51
3:PD:247:ASN:HB3	3:PD:252:LYS:HG2	1.92	0.51
3:PF:233:MET:HE2	3:PF:233:MET:HA	1.92	0.51
3:PH:156:ARG:NH1	3:PH:157:GLU:HB3	2.25	0.51
4:PI:80:THR:HA	4:PI:84:ARG:HH11	1.75	0.51
4:PK:201:ALA:HB3	4:PK:267:PHE:HD1	1.74	0.51
3:PL:289:LEU:O	3:PL:293:MET:N	2.40	0.51
3:PL:328:GLU:OE2	3:PL:329:GLN:NE2	2.39	0.51
4:PM:60:LYS:HG2	4:QM:283:HIS:HB2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:Q2:1340:TRP:HH2	30:Q2:1405:LEU:HD13	1.75	0.51
3:QB:12:CYS:HA	39:QB:501:GTP:N2	2.26	0.51
3:QB:60:VAL:HG23	3:QB:86:ARG:HH11	1.76	0.51
4:QC:269:LEU:N	4:QC:379:SER:O	2.35	0.51
4:QE:103:TYR:HB2	4:QE:186:ASN:HB2	1.92	0.51
3:QF:2:ARG:HH22	3:QF:251:ARG:HH22	1.58	0.51
3:QH:61:PRO:HD3	3:QH:84:ILE:HG13	1.92	0.51
3:QH:347:ASN:HB3	4:QI:178:SER:HB3	1.93	0.51
4:QI:271:THR:HA	4:QI:302:MET:HE1	1.93	0.51
4:QK:205:ASP:OD2	4:QK:304:LYS:NZ	2.29	0.51
4:QM:208:ALA:H	4:QM:304:LYS:HZ1	1.58	0.51
3:RB:183:TYR:CG	3:RB:388:MET:HE3	2.46	0.51
3:RD:218:THR:OG1	3:RD:219:THR:N	2.42	0.51
3:RH:285:THR:O	3:RH:288:GLU:HG3	2.10	0.51
4:RK:287:SER:OG	4:RK:290:GLU:OE1	2.24	0.51
3:RL:398:TYR:O	3:RL:402:GLY:N	2.39	0.51
4:SC:254:GLU:O	4:SC:258:ASN:ND2	2.30	0.51
4:SE:396:ASP:HB3	4:SE:422:ARG:HH12	1.76	0.51
3:SF:323:MET:SD	3:SF:323:MET:N	2.84	0.51
4:SG:12:ALA:HB2	39:SG:501:GTP:H5”	1.92	0.51
3:SH:269:GLY:HA2	3:SH:300:MET:HE1	1.92	0.51
3:SH:285:THR:O	3:SH:288:GLU:HG3	2.10	0.51
3:SH:415:MET:HA	3:SH:418:LEU:HB2	1.92	0.51
4:SI:53:PHE:HB3	4:SI:61:HIS:HB3	1.93	0.51
3:SJ:251:ARG:HH12	4:SK:98:ASP:C	2.18	0.51
3:TB:218:THR:OG1	3:TB:219:THR:N	2.42	0.51
4:TK:260:VAL:O	3:TL:397:TRP:HH2	1.94	0.51
3:TN:130:LEU:HB2	3:TN:162:ARG:HH11	1.76	0.51
4:UC:302:MET:N	4:UC:302:MET:SD	2.84	0.51
4:UC:363:VAL:H	4:UC:368:LEU:HD21	1.75	0.51
4:UE:173:PRO:O	4:UE:390:ARG:NH2	2.43	0.51
4:UG:1:MET:O	4:UG:131:GLY:HA3	2.10	0.51
3:UH:234:SER:O	3:UH:238:THR:HG23	2.11	0.51
3:UL:103:LYS:O	3:UL:108:GLU:N	2.41	0.51
3:UL:375:GLN:HA	3:UL:378:PHE:CZ	2.45	0.51
4:VA:154:MET:HE1	4:VA:197:HIS:HB2	1.92	0.51
3:VD:258:VAL:HG22	3:VD:266:PHE:HZ	1.74	0.51
3:VF:173:PRO:O	3:VF:380:ARG:NH2	2.44	0.51
4:VI:192:HIS:HA	4:VI:195:LEU:HD23	1.92	0.51
3:VJ:39:ASP:OD1	3:VJ:43:GLN:NE2	2.44	0.51
4:VK:392:ASP:OD1	4:VK:393:HIS:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VL:182:PRO:HB3	3:VL:381:ILE:HD11	1.92	0.51
3:WB:15:GLN:NE2	39:WB:501:GTP:C2	2.75	0.51
3:WD:28:HIS:ND1	3:WD:43:GLN:HB2	2.25	0.51
4:WI:398:MET:HA	4:WI:401:LYS:HE2	1.93	0.51
34:XB:1:MET:HG3	34:XB:68:THR:O	2.10	0.51
34:XE:90:GLU:HB3	34:XE:104:ARG:HD3	1.93	0.51
36:Y:185:LEU:O	36:Y:189:LYS:HG2	2.11	0.51
37:YA:98:GLU:HA	37:YA:101:LYS:HD2	1.92	0.51
37:YK:15:TYR:O	37:YK:19:GLN:HG3	2.11	0.51
37:YM:50:GLN:O	37:YM:53:MET:HG3	2.11	0.51
37:YQ:130:ALA:HA	37:YQ:134:TYR:HB2	1.92	0.51
37:YR:15:TYR:OH	37:YR:141:ILE:HG21	2.11	0.51
1:A:93:LEU:O	1:A:97:LEU:HG	2.11	0.51
2:A1:323:ARG:NH1	2:A2:181:ALA:O	2.43	0.51
2:A3:299:LEU:HD23	2:A3:355:LEU:HD13	1.92	0.51
3:AB:12:CYS:O	3:AB:16:ILE:HG12	2.10	0.51
4:AC:104:ALA:O	4:AC:108:TYR:N	2.42	0.51
3:AD:324:LYS:HD2	4:AE:221:ARG:HA	1.93	0.51
4:AE:216:ASN:ND2	4:AE:275:VAL:HG23	2.25	0.51
3:AF:101:TRP:HB2	3:AF:184:ASN:HD22	1.76	0.51
3:AH:173:PRO:HB3	3:AH:380:ARG:CZ	2.41	0.51
4:AI:116:ASP:N	4:AI:116:ASP:OD1	2.42	0.51
3:AJ:150:LEU:C	3:AJ:154:LYS:HZ3	2.18	0.51
3:AL:99:ASN:OD1	3:AL:142:GLY:HA3	2.10	0.51
3:AL:285:THR:O	3:AL:288:GLU:HG3	2.11	0.51
4:AM:166:LYS:N	4:AM:199:ASP:OD2	2.44	0.51
1:B:295:ARG:HA	1:B:298:ARG:HD2	1.93	0.51
5:B3:413:ARG:HH12	8:D3:400:GLN:HG2	1.75	0.51
5:B8:136:GLU:HA	5:B8:139:LYS:HG2	1.92	0.51
3:BB:305:PRO:HB2	3:BB:310:TYR:HE1	1.76	0.51
3:BF:254:ALA:HA	3:BF:257:MET:HG2	1.93	0.51
4:BG:22:GLU:O	4:BG:26:LEU:HD23	2.09	0.51
4:BG:88:HIS:HB3	4:BG:91:GLN:CB	2.40	0.51
3:BH:250:LEU:HD13	3:BH:253:LEU:HD12	1.92	0.51
4:BI:79:ARG:HH22	15:H4:19:GLY:CA	2.24	0.51
4:BI:196:GLU:OE1	4:BI:196:GLU:N	2.34	0.51
4:BI:331:ALA:O	4:BI:334:THR:OG1	2.26	0.51
4:BK:52:PHE:HZ	4:BK:239:THR:HB	1.76	0.51
3:BL:39:ASP:OD1	3:BL:43:GLN:NE2	2.44	0.51
4:BM:264:ARG:HG2	4:BM:265:ILE:H	1.74	0.51
7:C4:133:GLN:HB3	7:C4:137:LYS:HZ3	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C6:94:TYR:OH	7:C7:208:ILE:O	2.18	0.51
7:C7:100:TYR:O	7:C7:104:LEU:HG	2.11	0.51
7:C9:417:GLN:NE2	7:C9:418:LEU:HG	2.25	0.51
4:CC:196:GLU:OE1	4:CC:196:GLU:N	2.40	0.51
4:CE:105:ARG:O	4:CE:109:THR:OG1	2.22	0.51
4:CK:122:ILE:O	4:CK:126:ALA:N	2.41	0.51
4:CK:279:GLU:HA	4:CK:282:TYR:HD2	1.76	0.51
4:CM:229:ARG:HH22	4:CM:367:ASP:H	1.57	0.51
7:Cc:415:MET:HA	7:Cc:418:LEU:HD12	1.92	0.51
8:D4:332:GLN:O	8:D4:336:ILE:HG13	2.11	0.51
8:D7:331:ASP:OD1	8:D7:332:GLN:N	2.43	0.51
8:D8:267:ARG:HA	8:D8:270:ARG:NE	2.23	0.51
3:DB:285:THR:O	3:DB:288:GLU:HG3	2.11	0.51
4:DE:287:SER:OG	4:DE:290:GLU:OE1	2.21	0.51
3:DF:268:PRO:HD2	3:DF:301:ALA:HB2	1.92	0.51
3:DH:234:SER:O	3:DH:238:THR:HG23	2.10	0.51
4:DI:89:PRO:HB2	4:DI:90:GLU:OE1	2.09	0.51
4:DI:216:ASN:OD1	4:DI:217:LEU:N	2.43	0.51
8:Da:53:ARG:O	8:Da:57:PHE:HD1	1.94	0.51
8:Da:65:HIS:HB3	11:Fh:380:ARG:NH1	2.26	0.51
4:EC:256:GLN:O	4:EC:260:VAL:HG12	2.11	0.51
3:ED:216:LYS:HB2	3:ED:276:ARG:HH11	1.74	0.51
3:ED:269:GLY:HA2	3:ED:300:MET:HE1	1.92	0.51
3:ED:286:VAL:HG21	3:ED:325:GLU:HG3	1.92	0.51
4:EE:215:ARG:HH12	4:EE:299:ALA:HB1	1.76	0.51
3:EF:28:HIS:O	3:EF:43:GLN:NE2	2.44	0.51
3:EF:316:VAL:HG22	3:EF:352:ALA:HB3	1.92	0.51
9:F:274:PHE:HE1	4:II:358:GLN:NE2	2.08	0.51
9:F:376:ILE:C	9:F:380:HIS:HD1	2.17	0.51
11:F1:188:LEU:O	11:F1:192:LEU:HG	2.10	0.51
11:F7:89:ARG:NH2	11:F8:204:ILE:HD12	2.26	0.51
11:F8:361:LEU:O	11:F8:364:ILE:HG12	2.11	0.51
11:F8:376:MET:HE3	11:F8:380:ARG:HG3	1.92	0.51
3:FB:31:ASP:OD1	3:FB:35:THR:N	2.43	0.51
4:FC:67:PHE:O	4:FC:93:ILE:N	2.44	0.51
3:FD:178:THR:HB	3:FD:181:GLU:HB2	1.92	0.51
3:FF:216:LYS:HB3	3:FF:276:ARG:CZ	2.41	0.51
4:FG:211:ASP:O	4:FG:214:ARG:NH1	2.44	0.51
3:FH:130:LEU:HB3	3:FH:162:ARG:HH11	1.74	0.51
3:FH:317:PHE:CE2	3:FH:326:VAL:HG23	2.46	0.51
4:FI:113:GLU:OE1	4:FI:113:GLU:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FI:208:ALA:H	4:FI:304:LYS:HZ1	1.56	0.51
4:FK:1:MET:N	4:FK:130:THR:OG1	2.40	0.51
3:FL:176:SER:O	3:FL:178:THR:N	2.44	0.51
3:FL:392:LYS:HD2	3:FL:392:LYS:O	2.11	0.51
11:Fc:175:ARG:O	11:Fc:178:GLU:HG3	2.11	0.51
11:Ff:193:GLU:O	11:Ff:197:ASN:ND2	2.44	0.51
11:Fg:213:LYS:HD2	11:Fg:213:LYS:H	1.76	0.51
11:Fh:360:GLN:HA	11:Fh:363:LYS:HE2	1.92	0.51
11:Fi:377:LEU:O	11:Fi:380:ARG:HG3	2.10	0.51
11:Fj:385:LYS:HE2	11:Fj:430:LEU:HD13	1.93	0.51
11:Fl:137:GLY:O	11:Fl:141:ASN:N	2.36	0.51
13:G2:175:THR:HA	13:G2:180:THR:HA	1.93	0.51
13:G3:132:SER:HB3	13:G3:147:LYS:HE2	1.93	0.51
14:G5:99:ILE:HD13	14:G5:192:PRO:HB2	1.92	0.51
14:G5:626:LYS:HA	14:G5:629:LYS:HE2	1.93	0.51
14:G6:426:SER:OG	14:G6:432:ASN:N	2.43	0.51
14:G6:531:ASN:O	14:G6:534:GLU:HG2	2.10	0.51
4:GC:67:PHE:O	4:GC:93:ILE:N	2.43	0.51
4:GC:332:ILE:HG13	4:GC:336:LYS:HE3	1.92	0.51
4:GC:396:ASP:OD1	4:GC:397:LEU:N	2.44	0.51
4:GG:87:PHE:HB3	4:GG:92:LEU:HD11	1.93	0.51
4:GI:161:TYR:O	4:GI:166:LYS:NZ	2.39	0.51
3:GJ:9:ALA:HB3	3:GJ:137:HIS:HB3	1.91	0.51
3:GJ:20:PHE:CE1	3:GJ:233:MET:HG3	2.46	0.51
3:GJ:156:ARG:HH22	3:GJ:157:GLU:HB3	1.76	0.51
3:GL:6:HIS:CD2	3:GL:134:GLN:HG2	2.33	0.51
3:GL:165:ASN:OD1	3:GL:166:THR:N	2.44	0.51
15:H1:298:LEU:HD23	15:H1:306:ARG:HD2	1.91	0.51
4:HA:113:GLU:OE1	4:HA:113:GLU:N	2.41	0.51
4:HC:102:ASN:HB3	4:HC:105:ARG:HB2	1.92	0.51
4:HC:319:TYR:N	4:HC:354:GLY:O	2.42	0.51
4:HE:208:ALA:H	4:HE:304:LYS:NZ	2.09	0.51
4:HI:49:PHE:O	4:HI:53:PHE:N	2.44	0.51
3:HJ:415:MET:O	3:HJ:419:VAL:HG23	2.11	0.51
3:HL:3:GLU:HG2	3:HL:130:LEU:HD23	1.93	0.51
4:IA:11:GLN:N	4:IA:69:ASP:OD2	2.44	0.51
4:IA:264:ARG:O	4:IA:266:HIS:ND1	2.42	0.51
4:IA:401:LYS:C	4:IA:402:ARG:HD3	2.36	0.51
4:IC:220:GLU:OE1	4:IC:220:GLU:N	2.39	0.51
3:ID:324:LYS:HD3	4:IE:210:TYR:CE1	2.45	0.51
4:IE:46:ASP:OD1	4:IE:50:ASN:ND2	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:IE:104:ALA:HB1	4:IE:413:MET:HE3	1.92	0.51
4:II:201:ALA:H	4:II:266:HIS:HD2	1.58	0.51
4:II:326:LYS:HZ2	3:IJ:208:TYR:HD1	1.57	0.51
3:IJ:12:CYS:O	3:IJ:16:ILE:HG12	2.11	0.51
3:IL:251:ARG:HH22	4:IM:105:ARG:HE	1.58	0.51
4:IM:49:PHE:O	4:IM:53:PHE:N	2.42	0.51
4:IM:121:ARG:O	4:IM:124:LYS:HG3	2.11	0.51
4:JC:119:LEU:HA	4:JC:122:ILE:HD12	1.93	0.51
4:JE:171:ILE:HD12	4:JE:204:VAL:HG13	1.92	0.51
4:JE:220:GLU:O	4:JE:221:ARG:NE	2.40	0.51
4:JE:272:TYR:CZ	4:JE:274:PRO:HG2	2.46	0.51
3:JH:11:GLN:HG3	39:JH:501:GTP:PA	2.51	0.51
4:JI:331:ALA:O	4:JI:334:THR:OG1	2.26	0.51
3:JJ:269:GLY:HA2	3:JJ:300:MET:HE1	1.93	0.51
21:K1:361:ILE:HG12	21:K1:436:LEU:HD21	1.92	0.51
21:K3:261:ARG:HD2	21:K3:264:TRP:CE3	2.46	0.51
21:K3:388:GLU:HG3	21:K3:392:LYS:CD	2.41	0.51
4:KA:115:VAL:HA	4:KA:118:VAL:HG22	1.93	0.51
4:KE:161:TYR:O	4:KE:166:LYS:NZ	2.35	0.51
4:KG:220:GLU:O	4:KG:221:ARG:NE	2.43	0.51
3:KJ:81:PHE:O	3:KJ:84:ILE:HG22	2.11	0.51
3:KL:152:ILE:O	3:KL:156:ARG:HG2	2.11	0.51
3:KL:262:ARG:HH22	31:R3:124:ASN:HD21	1.58	0.51
3:LB:143:THR:O	3:LB:147:MET:HG2	2.11	0.51
3:LB:206:ALA:O	3:LB:210:ILE:HG12	2.11	0.51
4:LC:98:ASP:O	4:LC:105:ARG:NH2	2.37	0.51
3:LD:323:MET:HE1	4:LE:223:THR:HA	1.93	0.51
3:LF:317:PHE:O	3:LF:354:CYS:N	2.36	0.51
3:LF:347:ASN:HB3	4:LG:178:SER:HB3	1.93	0.51
4:LI:433:GLU:O	4:LI:437:VAL:N	2.43	0.51
3:LJ:197:ASP:OD1	3:LJ:198:GLU:N	2.43	0.51
4:LK:161:TYR:HB3	4:LK:164:LYS:NZ	2.26	0.51
3:LL:117:LEU:HA	3:LL:120:VAL:HG22	1.93	0.51
4:MC:258:ASN:HB3	4:MC:352:LYS:HE2	1.91	0.51
4:MC:337:THR:O	4:MC:339:ARG:NH1	2.43	0.51
3:MD:189:VAL:HA	3:MD:192:LEU:HB2	1.92	0.51
3:MD:209:ASP:O	3:MD:213:ARG:N	2.42	0.51
3:MD:309:ARG:HH22	3:MD:344:TRP:HZ3	1.58	0.51
3:MD:324:LYS:NZ	4:ME:222:PRO:O	2.23	0.51
4:MG:1:MET:SD	4:MG:2:ARG:N	2.84	0.51
3:MH:173:PRO:HD3	3:MH:203:ASP:OD1	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MH:332:ASN:O	3:MH:336:LYS:N	2.44	0.51
4:MI:116:ASP:N	4:MI:116:ASP:OD1	2.41	0.51
3:MJ:309:ARG:H	3:MJ:372:THR:HG1	1.59	0.51
4:MK:1:MET:O	4:MK:131:GLY:HA3	2.11	0.51
4:MK:245:ASP:HA	4:MK:249:ASN:HD21	1.74	0.51
3:NB:173:PRO:O	3:NB:380:ARG:NH2	2.44	0.51
4:NE:263:PRO:HD3	3:NF:396:HIS:CD2	2.46	0.51
3:NH:11:GLN:HG3	39:NH:501:GTP:PA	2.51	0.51
3:NH:77:ARG:HD3	3:NH:90:PHE:HE2	1.75	0.51
4:NI:171:ILE:HD12	4:NI:204:VAL:HG13	1.92	0.51
4:NI:260:VAL:HG23	4:NI:265:ILE:O	2.11	0.51
4:NI:264:ARG:O	4:NI:266:HIS:ND1	2.40	0.51
3:OF:31:ASP:OD2	3:OF:35:THR:OG1	2.26	0.51
3:OF:375:GLN:HA	3:OF:378:PHE:CZ	2.46	0.51
3:OJ:258:VAL:HB	4:OK:407:TRP:HZ2	1.75	0.51
3:OJ:268:PRO:HD2	3:OJ:301:ALA:HB2	1.93	0.51
3:OL:3:GLU:HG2	3:OL:130:LEU:HD13	1.92	0.51
29:P2:387:LYS:O	29:P2:403:PRO:HD3	2.11	0.51
29:P2:389:ILE:O	29:P2:400:ALA:HA	2.11	0.51
4:PC:206:ASN:HA	4:PC:209:ILE:HD12	1.93	0.51
4:PG:371:VAL:HG11	4:PG:374:ALA:HB2	1.92	0.51
3:PL:109:GLY:O	3:PL:113:VAL:HG13	2.11	0.51
27:Q:118:LEU:HA	27:Q:121:GLU:HG2	1.91	0.51
27:Q:145:ASP:HB3	27:Q:148:PHE:HB2	1.93	0.51
3:QD:378:PHE:CD1	3:QD:419:VAL:HG22	2.46	0.51
3:QL:32:PRO:O	3:QL:83:GLN:NE2	2.35	0.51
4:QM:269:LEU:N	4:QM:379:SER:O	2.37	0.51
4:QM:319:TYR:N	4:QM:354:GLY:O	2.44	0.51
3:RB:218:THR:OG1	3:RB:219:THR:N	2.43	0.51
3:RB:238:THR:HG22	3:RB:241:ARG:HH21	1.76	0.51
4:RC:427:ALA:HA	4:RC:430:LYS:NZ	2.26	0.51
3:RD:300:MET:N	3:RD:300:MET:SD	2.84	0.51
4:RG:295:CYS:HB2	4:RG:377:MET:HE3	1.93	0.51
4:RI:11:GLN:O	4:RI:14:VAL:HG22	2.10	0.51
3:RJ:134:GLN:HA	3:RJ:165:ASN:O	2.11	0.51
4:RK:216:ASN:ND2	4:RK:275:VAL:O	2.43	0.51
3:RL:183:TYR:CZ	3:RL:388:MET:HG3	2.45	0.51
4:RM:125:LEU:HD13	4:RM:128:LEU:HD21	1.93	0.51
3:SD:32:PRO:O	3:SD:83:GLN:NE2	2.39	0.51
3:SD:285:THR:O	3:SD:288:GLU:HG3	2.11	0.51
4:SE:38:SER:O	36:Z:485:TYR:OH	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:SG:103:TYR:HB2	4:SG:186:ASN:HB2	1.93	0.51
4:SG:257:THR:HA	3:SH:397:TRP:CZ2	2.46	0.51
4:SG:434:GLU:HA	4:SG:437:VAL:HB	1.92	0.51
3:SH:324:LYS:NZ	4:SI:222:PRO:O	2.21	0.51
4:SI:1:MET:N	4:SI:130:THR:OG1	2.44	0.51
4:SK:88:HIS:HB3	4:SK:91:GLN:HB2	1.93	0.51
4:TE:5:ILE:HD13	4:TE:64:ARG:HB3	1.93	0.51
4:TE:166:LYS:N	4:TE:199:ASP:OD2	2.44	0.51
4:TE:187:SER:O	4:TE:190:THR:OG1	2.26	0.51
4:TE:345:ASP:OD1	4:TE:345:ASP:N	2.44	0.51
3:TH:12:CYS:HA	39:TH:501:GTP:N2	2.26	0.51
3:TH:152:ILE:HD12	3:TH:195:ASN:HB2	1.93	0.51
4:TI:178:SER:OG	4:TI:180:ALA:O	2.28	0.51
33:U:438:GLN:HB2	33:U:441:ARG:HH21	1.76	0.51
3:UB:11:GLN:HE21	39:UB:501:GTP:H3'	1.74	0.51
3:UB:234:SER:O	3:UB:238:THR:HG23	2.11	0.51
4:UC:3:GLU:OE2	4:UC:130:THR:N	2.34	0.51
3:UD:12:CYS:SG	3:UD:13:GLY:N	2.83	0.51
3:UD:70:PRO:HA	3:UD:73:MET:HE3	1.91	0.51
4:UG:22:GLU:O	4:UG:26:LEU:HD23	2.11	0.51
4:VA:115:VAL:O	4:VA:119:LEU:N	2.36	0.51
3:VB:12:CYS:SG	3:VB:13:GLY:N	2.83	0.51
3:VB:240:LEU:HD13	3:VB:248:ALA:HB1	1.93	0.51
3:VH:217:LEU:HD11	3:VH:220:PRO:HB3	1.93	0.51
4:VI:122:ILE:O	4:VI:126:ALA:N	2.42	0.51
4:VK:260:VAL:HG23	4:VK:265:ILE:O	2.10	0.51
3:VL:316:VAL:HG22	3:VL:352:ALA:HB3	1.93	0.51
3:WD:206:ALA:O	3:WD:210:ILE:HG12	2.11	0.51
3:WH:322:SER:OG	3:WH:323:MET:SD	2.69	0.51
4:WI:371:VAL:HG11	4:WI:374:ALA:HB2	1.93	0.51
3:WJ:234:SER:O	3:WJ:238:THR:HG23	2.11	0.51
4:WK:22:GLU:O	4:WK:26:LEU:HD23	2.11	0.51
34:XB:39:ASP:OD1	34:XB:41:ASP:N	2.43	0.51
35:XJ:182:ASN:O	35:XJ:185:LYS:NZ	2.43	0.51
37:YK:128:ASP:HA	37:YK:131:ARG:HB2	1.92	0.51
37:YN:140:LEU:HA	37:YN:143:ILE:HD12	1.93	0.51
37:YQ:25:PHE:HE1	37:YQ:66:LEU:HD13	1.75	0.51
1:A:305:GLN:O	1:A:309:THR:OG1	2.24	0.51
2:A3:77:LEU:HB2	2:A3:175:LEU:HD13	1.93	0.51
2:A3:368:ARG:HH11	2:A4:26:ARG:NH1	2.06	0.51
3:AD:176:SER:O	3:AD:178:THR:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AF:206:ALA:O	3:AF:210:ILE:HG12	2.11	0.51
4:AG:207:GLU:HB2	4:AG:304:LYS:HZ1	1.74	0.51
5:B7:44:ILE:N	7:C2:126:ARG:HH12	2.08	0.51
5:B9:301:GLU:HB2	5:B9:305:ARG:HH12	1.76	0.51
3:BB:46:ARG:HH12	4:BC:73:THR:HG23	1.75	0.51
4:BC:320:ARG:HD3	4:BC:360:PRO:HG3	1.92	0.51
4:BE:301:GLN:OE1	4:BE:301:GLN:N	2.44	0.51
3:BF:165:ASN:HD21	3:BF:200:TYR:HE2	1.58	0.51
4:BG:35:GLN:HG2	4:BG:59:GLY:O	2.11	0.51
4:BG:345:ASP:N	4:BG:345:ASP:OD1	2.44	0.51
3:BL:12:CYS:HB3	39:BL:501:GTP:H5'	1.92	0.51
7:C3:110:SER:OG	7:C3:114:ARG:NH2	2.44	0.51
3:CB:347:ASN:HB3	4:CC:178:SER:HB3	1.93	0.51
4:CC:324:VAL:HG11	3:CD:219:THR:HB	1.93	0.51
4:CC:386:GLU:O	4:CC:390:ARG:N	2.40	0.51
4:CG:11:GLN:HG3	39:CG:501:GTP:O1B	2.11	0.51
3:CH:182:PRO:HB2	3:CH:388:MET:HE1	1.93	0.51
4:CK:10:GLY:O	4:CK:13:GLY:N	2.41	0.51
4:CK:118:VAL:HA	4:CK:121:ARG:HG2	1.93	0.51
7:Ca:403:ARG:NE	7:Ca:417:GLN:HE21	2.08	0.51
8:D2:32:ASN:HD21	8:D2:39:SER:H	1.58	0.51
8:D3:150:SER:HA	10:E2:117:ALA:HB3	1.93	0.51
8:D4:101:ARG:HB2	8:D4:101:ARG:CZ	2.39	0.51
8:D4:174:VAL:HA	8:D4:177:LEU:HD12	1.93	0.51
8:D4:215:TRP:O	8:D4:219:VAL:HG23	2.11	0.51
8:D7:272:ARG:HH22	8:D7:273:LEU:HG	1.76	0.51
8:D8:90:ALA:O	8:D8:94:ARG:NE	2.44	0.51
8:D9:313:ASP:HB3	11:F4:271:ARG:HH12	1.76	0.51
4:DA:345:ASP:N	4:DA:345:ASP:OD1	2.43	0.51
4:DE:12:ALA:HB1	39:DE:501:GTP:C2	2.45	0.51
4:DE:214:ARG:NH1	4:DE:215:ARG:HG3	2.25	0.51
4:DG:216:ASN:HD21	4:DG:275:VAL:HG23	1.76	0.51
3:DJ:350:LYS:HE3	4:DK:180:ALA:HA	1.91	0.51
4:DK:390:ARG:HA	4:DK:393:HIS:CD2	2.45	0.51
3:DL:292:GLN:O	3:DL:298:ASN:ND2	2.41	0.51
9:E:427:GLU:O	9:E:431:LYS:HG2	2.10	0.51
10:E1:71:GLU:O	10:E1:87:TYR:OH	2.19	0.51
4:EA:203:MET:SD	4:EA:203:MET:N	2.84	0.51
3:ED:67:ASP:OD2	3:ED:72:THR:OG1	2.28	0.51
4:EE:402:ARG:HB2	4:EE:405:VAL:HG11	1.92	0.51
3:EF:324:LYS:HE2	4:EG:222:PRO:HD2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EG:2:ARG:NH1	4:EG:241:SER:O	2.44	0.51
3:EJ:269:GLY:N	3:EJ:367:PHE:O	2.44	0.51
3:EL:15:GLN:HB2	3:EL:222:TYR:HE2	1.76	0.51
3:EL:309:ARG:HE	3:EL:426:GLN:HE21	1.59	0.51
11:F3:91:THR:HG21	14:G5:746:GLU:HG2	1.91	0.51
11:F3:365:LEU:HG	11:F3:448:LYS:HZ1	1.75	0.51
11:F6:248:HIS:O	11:F6:252:ARG:HG2	2.11	0.51
11:F8:184:VAL:O	11:F8:187:PRO:HD2	2.11	0.51
3:FD:305:PRO:HA	3:FD:373:ALA:HB2	1.93	0.51
3:FF:99:ASN:OD1	3:FF:142:GLY:HA3	2.10	0.51
3:FH:132:GLY:HA3	3:FH:163:ILE:H	1.76	0.51
3:FH:235:GLY:O	3:FH:238:THR:OG1	2.26	0.51
11:Fb:402:ARG:HD2	11:Fb:406:GLU:O	2.11	0.51
11:Ff:152:TRP:CB	11:Ff:257:LYS:HZ1	2.24	0.51
11:Fl:371:ALA:CB	11:Fl:441:LEU:HD21	2.41	0.51
12:G:155:GLN:HA	12:G:158:ARG:HD3	1.93	0.51
12:G:378:GLU:OE1	12:G:382:GLN:NE2	2.44	0.51
13:G1:175:THR:HA	13:G1:180:THR:HA	1.93	0.51
13:G3:404:ALA:O	13:G3:406:ARG:NH1	2.44	0.51
14:G4:42:GLY:H	14:G4:46:ASP:H	1.59	0.51
14:G5:245:ASP:OD1	14:G5:246:ARG:NH2	2.44	0.51
14:G5:583:ARG:NH2	14:G5:725:PRO:HG3	2.25	0.51
14:G5:749:MET:SD	14:G5:749:MET:N	2.84	0.51
4:GA:117:LEU:O	4:GA:121:ARG:HG2	2.10	0.51
4:GC:70:LEU:HA	4:GC:95:GLY:HA3	1.92	0.51
3:GD:91:VAL:HG11	3:GD:116:VAL:HG12	1.93	0.51
3:GD:234:SER:O	3:GD:238:THR:HG23	2.11	0.51
3:GD:295:ASP:HB2	3:GD:298:ASN:HB2	1.91	0.51
4:GE:265:ILE:HD13	4:GE:432:TYR:CE1	2.46	0.51
3:GF:410:GLU:HA	3:GF:413:SER:HB3	1.91	0.51
4:GI:21:TRP:HD1	4:GI:53:PHE:CE1	2.29	0.51
4:GK:116:ASP:OD1	4:GK:117:LEU:N	2.44	0.51
15:H5:217:ALA:O	15:H5:236:TYR:OH	2.22	0.51
15:H6:240:VAL:O	15:H6:243:ALA:HB3	2.11	0.51
3:HB:3:GLU:HG2	3:HB:130:LEU:HD23	1.92	0.51
3:HB:268:PRO:HD2	3:HB:301:ALA:HB2	1.93	0.51
3:HD:47:ILE:HG12	3:HD:59:TYR:CD2	2.45	0.51
4:HE:53:PHE:O	4:HE:64:ARG:NH1	2.43	0.51
4:HE:392:ASP:OD1	4:HE:393:HIS:N	2.44	0.51
4:HG:320:ARG:HG2	4:HG:358:GLN:O	2.11	0.51
4:HI:107:HIS:CD2	4:HI:152:LEU:HB2	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HI:271:THR:HA	4:HI:302:MET:HE1	1.93	0.51
4:HK:272:TYR:HD2	4:HK:275:VAL:HG13	1.76	0.51
3:HL:375:GLN:HA	3:HL:378:PHE:CZ	2.46	0.51
4:IA:3:GLU:N	4:IA:133:GLN:OE1	2.44	0.51
4:IA:47:ASP:HB3	4:IA:49:PHE:CE2	2.46	0.51
4:IA:319:TYR:N	4:IA:354:GLY:O	2.43	0.51
3:IB:143:THR:HG22	3:IB:147:MET:HE2	1.93	0.51
3:IB:260:PHE:HB2	3:IB:263:LEU:HD13	1.93	0.51
3:IB:268:PRO:HD2	3:IB:301:ALA:HB2	1.92	0.51
3:ID:214:THR:HG23	3:ID:215:LEU:HD12	1.92	0.51
3:IF:378:PHE:HA	3:IF:381:ILE:HG12	1.93	0.51
4:IG:70:LEU:HA	4:IG:95:GLY:HA3	1.91	0.51
4:IG:351:PHE:CZ	3:IH:175:VAL:HB	2.45	0.51
4:IK:254:GLU:N	4:IK:254:GLU:OE1	2.44	0.51
4:IK:288:VAL:HG11	4:IK:327:ASP:HB2	1.91	0.51
3:IL:21:TRP:CZ3	3:IL:51:TYR:HE1	2.29	0.51
4:IM:85:GLN:O	3:JL:281:TYR:OH	2.25	0.51
4:JA:11:GLN:HG3	39:JA:501:GTP:O1B	2.11	0.51
4:JA:331:ALA:O	4:JA:334:THR:OG1	2.25	0.51
3:JB:324:LYS:NZ	4:JC:222:PRO:O	2.35	0.51
4:JC:83:TYR:HB3	4:JC:86:LEU:HD12	1.92	0.51
4:JC:331:ALA:O	4:JC:334:THR:OG1	2.25	0.51
3:JD:285:THR:O	3:JD:288:GLU:HG3	2.11	0.51
4:JK:392:ASP:OD1	4:JK:393:HIS:N	2.43	0.51
3:JL:302:ALA:HB1	3:JL:377:LEU:HD11	1.92	0.51
21:K1:392:LYS:NZ	24:M1:53:PRO:HG3	2.25	0.51
21:K2:383:LEU:HD23	21:K2:385:ARG:H	1.76	0.51
21:K3:239:GLN:HG3	24:M2:66:PHE:HE1	1.76	0.51
21:K5:15:ARG:HE	21:K5:16:VAL:N	2.09	0.51
3:KB:166:THR:OG1	3:KB:198:GLU:O	2.29	0.51
4:KC:76:ASP:OD1	4:KC:79:ARG:NH1	2.44	0.51
3:KF:84:ILE:O	3:KF:86:ARG:NH1	2.43	0.51
3:KF:234:SER:O	3:KF:238:THR:HG23	2.11	0.51
3:KF:309:ARG:O	3:KF:371:SER:OG	2.25	0.51
4:KG:256:GLN:HE22	3:KH:397:TRP:HE1	1.58	0.51
3:KH:217:LEU:HD11	3:KH:220:PRO:HB3	1.93	0.51
4:KI:214:ARG:NH1	4:KI:215:ARG:HG3	2.26	0.51
3:KJ:406:MET:O	3:KJ:409:THR:OG1	2.22	0.51
3:KL:132:GLY:HA3	3:KL:163:ILE:H	1.76	0.51
22:L1:76:LYS:HD2	4:LA:417:GLU:H	1.76	0.51
22:L2:108:THR:O	22:L2:112:ASP:N	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:L3:230:LEU:HB3	22:L3:234:MET:HE1	1.93	0.51
22:L4:49:MET:HE3	3:ML:337:ASN:HA	1.91	0.51
3:LB:217:LEU:HD11	3:LB:220:PRO:HB3	1.92	0.51
3:LD:418:LEU:HD12	3:LD:422:TYR:CE2	2.46	0.51
3:LH:101:TRP:HB2	3:LH:184:ASN:ND2	2.22	0.51
4:LI:167:LEU:HD13	4:LI:200:CYS:HB2	1.93	0.51
4:LK:9:VAL:HG11	4:LK:150:ALA:HB2	1.92	0.51
24:M1:48:LYS:HZ1	24:M1:92:TYR:HB3	1.76	0.51
3:MB:345:ILE:HD12	3:MB:346:PRO:HD2	1.93	0.51
4:MC:109:THR:OG1	4:MC:110:ILE:HD12	2.11	0.51
3:MD:151:LEU:O	3:MD:155:ILE:HG12	2.11	0.51
4:ME:52:PHE:HZ	4:ME:239:THR:HB	1.76	0.51
4:ME:220:GLU:O	4:ME:221:ARG:NE	2.43	0.51
4:MG:389:ALA:HA	4:MG:392:ASP:OD2	2.11	0.51
4:MI:6:SER:HB3	4:MI:65:ALA:HB2	1.92	0.51
4:MI:143:GLY:HA3	4:MI:147:SER:H	1.75	0.51
4:MI:172:TYR:HB2	4:MI:203:MET:HB3	1.92	0.51
3:MJ:322:SER:HB3	4:MK:221:ARG:NH1	2.24	0.51
4:MK:271:THR:HB	4:MK:377:MET:HE3	1.93	0.51
3:ML:28:HIS:CD2	3:ML:47:ILE:HD13	2.46	0.51
3:ML:46:ARG:HH22	4:MM:73:THR:HG23	1.75	0.51
3:ML:47:ILE:HG12	3:ML:59:TYR:CD2	2.46	0.51
4:NA:11:GLN:HB2	4:NA:74:VAL:HG21	1.92	0.51
4:NA:50:ASN:O	4:NA:64:ARG:NH1	2.44	0.51
4:NA:220:GLU:HG2	4:NA:221:ARG:HG2	1.93	0.51
4:NC:50:ASN:OD1	4:NC:51:THR:N	2.44	0.51
4:NC:89:PRO:HD2	4:OC:280:LYS:HZ3	1.76	0.51
4:NE:209:ILE:HG21	4:NE:227:LEU:HG	1.93	0.51
3:NF:379:LYS:O	3:NF:382:SER:OG	2.20	0.51
3:NH:12:CYS:HB3	39:NH:501:GTP:O4'	2.11	0.51
4:NI:210:TYR:OH	4:NI:221:ARG:NH2	2.39	0.51
4:NK:6:SER:OG	4:NK:8:HIS:NE2	2.38	0.51
4:NK:271:THR:HB	4:NK:377:MET:HB3	1.93	0.51
28:O3:84:ARG:HE	28:O3:85:THR:H	1.59	0.51
4:OA:50:ASN:OD1	4:OA:51:THR:N	2.44	0.51
3:OB:12:CYS:HA	39:OB:501:GTP:N2	2.26	0.51
3:OB:84:ILE:O	3:OB:86:ARG:NH1	2.43	0.51
3:OF:19:LYS:NZ	3:OF:223:GLY:O	2.44	0.51
4:OG:189:LEU:HA	4:OG:192:HIS:HE1	1.76	0.51
4:OI:346:TRP:HB3	3:OJ:391:ARG:CZ	2.41	0.51
27:P:48:VAL:HA	27:P:51:GLN:HG2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:P2:261:MET:HG2	30:Q2:1501:LEU:HD13	1.93	0.51
4:PA:295:CYS:HB2	4:PA:377:MET:HE3	1.93	0.51
4:PA:401:LYS:C	4:PA:402:ARG:HD3	2.36	0.51
3:PB:3:GLU:OE2	3:PB:127:CYS:HB2	2.11	0.51
3:PB:261:PRO:HD3	4:PC:406:HIS:CG	2.46	0.51
4:PC:287:SER:N	4:PC:290:GLU:OE2	2.44	0.51
3:PF:286:VAL:O	3:PF:290:THR:HG23	2.10	0.51
4:PG:185:TYR:OH	4:PG:403:ALA:O	2.14	0.51
4:QE:260:VAL:HG23	4:QE:265:ILE:O	2.10	0.51
4:QG:397:LEU:O	4:QG:401:LYS:HG2	2.11	0.51
3:QL:36:TYR:HE2	3:QL:44:LEU:HD13	1.75	0.51
3:QL:269:GLY:N	3:QL:367:PHE:O	2.44	0.51
3:QL:392:LYS:HB2	3:QL:395:LEU:HD13	1.93	0.51
4:RC:1:MET:O	4:RC:133:GLN:NE2	2.39	0.51
4:RC:68:VAL:HG12	4:RC:93:ILE:HB	1.93	0.51
4:RC:423:GLU:HA	4:RC:426:ALA:HB3	1.93	0.51
4:RE:125:LEU:HD13	4:RE:128:LEU:HD21	1.93	0.51
4:RG:236:SER:O	4:RG:243:ARG:NH2	2.38	0.51
4:RK:207:GLU:HB2	4:RK:304:LYS:NZ	2.26	0.51
3:RL:218:THR:OG1	3:RL:219:THR:N	2.42	0.51
3:SB:239:CYS:HA	3:SB:246:LEU:HD11	1.92	0.51
4:SC:88:HIS:CE1	4:SC:121:ARG:HH22	2.28	0.51
4:SC:321:GLY:HA3	4:SC:372:GLN:O	2.10	0.51
4:SC:326:LYS:HD2	3:SD:208:TYR:CE2	2.45	0.51
3:SF:282:ARG:HE	3:SF:288:GLU:CD	2.19	0.51
3:SF:317:PHE:O	3:SF:354:CYS:N	2.36	0.51
3:SF:324:LYS:HE2	4:SG:222:PRO:CD	2.41	0.51
4:SK:166:LYS:N	4:SK:199:ASP:OD2	2.44	0.51
4:SK:427:ALA:HA	4:SK:430:LYS:HG2	1.91	0.51
4:SM:15:GLN:OE1	39:SM:501:GTP:C6	2.61	0.51
4:SM:172:TYR:HB2	4:SM:203:MET:HB3	1.93	0.51
3:TB:189:VAL:HA	3:TB:192:LEU:HB2	1.93	0.51
4:TC:154:MET:HA	4:TC:157:LEU:HG	1.91	0.51
4:TC:208:ALA:N	4:TC:304:LYS:HZ1	2.08	0.51
3:TH:182:PRO:HB2	3:TH:388:MET:HE2	1.93	0.51
4:TI:1:MET:O	4:TI:131:GLY:HA3	2.11	0.51
3:TJ:285:THR:O	3:TJ:288:GLU:HG3	2.11	0.51
3:TL:324:LYS:HE3	4:TM:210:TYR:CE2	2.46	0.51
4:UE:272:TYR:CZ	4:UE:274:PRO:HG2	2.45	0.51
3:UF:250:LEU:O	3:UF:254:ALA:N	2.33	0.51
4:UI:187:SER:O	4:UI:190:THR:OG1	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UJ:155:ILE:HA	3:UJ:158:GLU:HB3	1.91	0.51
3:VB:389:PHE:HZ	3:VB:405:GLU:HB2	1.76	0.51
3:VD:189:VAL:HA	3:VD:192:LEU:HB2	1.93	0.51
3:VF:47:ILE:HG13	3:VF:51:TYR:HB2	1.93	0.51
3:VF:187:LEU:HD21	3:VF:408:PHE:HE1	1.76	0.51
3:VF:285:THR:O	3:VF:288:GLU:HG3	2.11	0.51
4:VG:22:GLU:O	4:VG:26:LEU:HD23	2.11	0.51
3:VH:28:HIS:O	3:VH:43:GLN:NE2	2.43	0.51
3:VH:130:LEU:HB2	3:VH:162:ARG:HH11	1.75	0.51
3:VH:223:GLY:O	3:VH:227:HIS:N	2.41	0.51
33:W:221:LEU:O	33:W:225:GLU:HG2	2.11	0.51
4:WC:331:ALA:O	4:WC:334:THR:OG1	2.28	0.51
3:WD:317:PHE:HB3	3:WD:321:MET:HE3	1.93	0.51
3:WF:218:THR:OG1	3:WF:219:THR:N	2.43	0.51
3:WH:258:VAL:HB	4:WI:407:TRP:CZ2	2.38	0.51
4:WK:329:ASN:OD1	4:WK:330:ALA:N	2.44	0.51
35:XI:156:LEU:HD23	35:XI:159:LEU:HD12	1.93	0.51
37:YC:124:HIS:O	37:YC:124:HIS:ND1	2.43	0.51
37:YH:6:GLU:HA	37:YH:9:ARG:HE	1.76	0.51
37:YI:106:GLN:HG2	37:YI:107:SER:N	2.26	0.51
37:YO:8:LEU:HA	37:YO:11:ILE:HB	1.93	0.51
37:YQ:15:TYR:OH	37:YQ:141:ILE:HG21	2.10	0.51
37:YR:93:THR:HB	37:YR:151:TRP:CD1	2.45	0.51
2:A3:143:ILE:O	2:A3:147:MET:HG2	2.10	0.51
2:A3:162:ARG:HD2	2:A3:165:ARG:NH1	2.25	0.51
2:A3:336:ARG:NH2	2:A4:59:VAL:HA	2.23	0.51
4:AC:402:ARG:HH22	35:XH:185:LYS:HE2	1.76	0.51
3:AD:273:LEU:H	3:AD:292:GLN:NE2	2.03	0.51
4:AE:76:ASP:OD1	4:AE:79:ARG:NH1	2.44	0.51
4:AE:245:ASP:O	4:AE:356:ASN:ND2	2.43	0.51
3:AF:11:GLN:HE21	39:AF:501:GTP:H3'	1.76	0.51
3:AF:52:ASN:CG	3:AF:62:ARG:HD3	2.36	0.51
3:AF:350:LYS:HE3	4:AG:180:ALA:HA	1.94	0.51
4:AG:76:ASP:OD1	4:AG:79:ARG:NH1	2.44	0.51
4:AG:302:MET:SD	4:AG:302:MET:N	2.66	0.51
3:AH:3:GLU:HG2	3:AH:130:LEU:HD23	1.93	0.51
3:AH:28:HIS:O	3:AH:43:GLN:NE2	2.44	0.51
3:AH:272:PRO:HA	3:AH:292:GLN:OE1	2.10	0.51
3:AH:273:LEU:H	3:AH:292:GLN:HE22	1.57	0.51
4:AI:21:TRP:HA	4:AI:24:TYR:HB2	1.93	0.51
4:AI:68:VAL:HA	4:AI:93:ILE:HB	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AJ:132:GLY:HA2	3:AJ:162:ARG:HB3	1.93	0.51
3:AJ:293:MET:HE3	3:AJ:293:MET:O	2.09	0.51
4:AK:402:ARG:NH2	35:XL:233:PRO:HG2	2.26	0.51
5:B1:364:ASP:O	5:B1:368:LYS:HG2	2.11	0.51
5:B3:364:ASP:O	5:B3:368:LYS:HG2	2.11	0.51
5:B6:39:ARG:HB3	5:B6:40:GLN:NE2	2.26	0.51
5:B6:125:ASP:CG	5:B6:126:ILE:H	2.19	0.51
5:B6:396:LYS:NZ	7:C9:345:LEU:HA	2.26	0.51
3:BB:6:HIS:HE2	3:BB:136:THR:HG23	1.76	0.51
4:BE:101:ASN:HA	4:BE:144:GLY:HA2	1.93	0.51
4:BE:254:GLU:OE1	4:BE:254:GLU:N	2.36	0.51
3:BF:130:LEU:HB2	3:BF:162:ARG:HH11	1.76	0.51
3:BF:273:LEU:H	3:BF:292:GLN:HE22	1.59	0.51
3:BH:375:GLN:HA	3:BH:378:PHE:CZ	2.46	0.51
4:BI:70:LEU:HD13	4:BI:95:GLY:HA3	1.93	0.51
3:BJ:359:ARG:CZ	15:H5:4:THR:HA	2.41	0.51
3:BL:318:ARG:HA	3:BL:354:CYS:HB3	1.92	0.51
4:BM:154:MET:HE1	4:BM:197:HIS:HB2	1.92	0.51
7:C2:175:THR:O	7:C2:178:LYS:HG2	2.11	0.51
7:C4:389:LYS:HZ2	7:C4:430:THR:C	2.18	0.51
7:C6:172:ASN:O	7:C6:175:THR:OG1	2.29	0.51
7:C6:253:GLU:OE1	7:C6:253:GLU:N	2.36	0.51
7:C9:154:ALA:HA	7:C9:157:LYS:HG2	1.92	0.51
3:CB:47:ILE:HG12	3:CB:59:TYR:CD2	2.46	0.51
4:CC:212:ILE:HG13	4:CC:302:MET:HE1	1.92	0.51
3:CD:176:SER:O	3:CD:178:THR:N	2.44	0.51
3:CD:324:LYS:HE2	4:CE:222:PRO:CD	2.41	0.51
3:CF:52:ASN:OD1	3:CF:53:GLU:N	2.38	0.51
4:CG:278:ALA:O	4:CG:370:LYS:NZ	2.44	0.51
3:CH:412:GLU:OE1	3:CH:416:ASN:ND2	2.44	0.51
4:CK:302:MET:N	4:CK:302:MET:SD	2.84	0.51
3:CL:42:LEU:HD11	3:CL:356:ILE:HG21	1.91	0.51
3:CL:130:LEU:HB2	3:CL:162:ARG:HH11	1.76	0.51
7:Ca:436:GLN:HA	7:Ca:439:ARG:NH1	2.26	0.51
7:Cb:218:GLU:O	7:Cb:222:GLU:HG2	2.11	0.51
7:Cb:449:ALA:HA	7:Cb:452:LYS:HE3	1.93	0.51
8:D2:116:GLU:O	8:D2:119:ARG:HG3	2.11	0.51
8:D7:341:GLN:HA	8:D7:344:LYS:HE3	1.93	0.51
3:DB:213:ARG:HH11	3:DB:297:LYS:HD3	1.75	0.51
3:DB:302:ALA:HB1	3:DB:377:LEU:HD11	1.92	0.51
3:DF:215:LEU:HD11	3:DF:228:LEU:HD11	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DG:226:ASN:HA	4:DG:229:ARG:HD3	1.93	0.51
4:DI:286:LEU:HD11	4:DI:372:GLN:H	1.74	0.51
4:DI:321:GLY:N	4:DI:356:ASN:O	2.31	0.51
3:DJ:375:GLN:HA	3:DJ:378:PHE:CZ	2.45	0.51
3:DL:315:ALA:HA	3:DL:367:PHE:HA	1.93	0.51
10:E2:106:PRO:O	10:E2:110:THR:HG23	2.10	0.51
4:EC:234:ILE:HD11	4:EC:272:TYR:HB2	1.92	0.51
4:EC:396:ASP:OD1	4:EC:397:LEU:N	2.43	0.51
3:ED:81:PHE:O	3:ED:84:ILE:HG22	2.10	0.51
3:EF:122:LYS:HD2	3:FF:291:GLN:HE21	1.76	0.51
4:EI:345:ASP:N	4:EI:345:ASP:OD1	2.43	0.51
4:EK:187:SER:O	4:EK:190:THR:OG1	2.23	0.51
3:EL:105:HIS:ND1	3:EL:149:THR:OG1	2.44	0.51
3:EL:372:THR:HG21	3:EL:426:GLN:HG3	1.93	0.51
3:EL:376:GLU:OE1	3:EL:376:GLU:N	2.32	0.51
11:F2:170:MET:HA	11:F2:173:LEU:HD12	1.93	0.51
11:F2:196:TYR:OH	11:F6:245:ASP:OD1	2.26	0.51
11:F2:366:GLN:HA	11:F2:369:PHE:CE2	2.45	0.51
11:F6:416:LEU:HA	11:F6:419:GLU:HG3	1.93	0.51
11:F7:90:TYR:OH	11:F8:204:ILE:O	2.27	0.51
4:FA:273:ALA:N	4:FA:377:MET:HE1	2.26	0.51
3:FB:389:PHE:HZ	3:FB:405:GLU:HB2	1.75	0.51
4:FC:220:GLU:O	4:FC:221:ARG:NE	2.41	0.51
3:FD:114:ASP:OD1	3:FD:115:SER:N	2.44	0.51
3:FF:350:LYS:HE3	4:FG:181:VAL:H	1.75	0.51
3:FH:214:THR:HG21	3:FH:273:LEU:HB3	1.92	0.51
3:FJ:15:GLN:NE2	39:FJ:501:GTP:C2	2.71	0.51
3:FJ:180:VAL:HG23	3:FJ:183:TYR:HD2	1.76	0.51
4:FK:346:TRP:HD1	3:FL:390:ARG:HH22	1.59	0.51
11:Fb:343:PHE:O	11:Fb:347:ILE:HG12	2.11	0.51
11:Fe:170:MET:HE1	11:Fe:318:ARG:HB2	1.93	0.51
11:Ff:184:VAL:O	11:Ff:187:PRO:HD2	2.11	0.51
11:Fi:301:ASN:O	11:Fi:305:ARG:HG2	2.11	0.51
11:Fi:378:LEU:HD13	11:Fi:433:ARG:HB3	1.93	0.51
11:Fi:464:ILE:O	11:Fi:468:LYS:HG2	2.11	0.51
11:Fl:246:ALA:O	11:Fl:250:LEU:HG	2.10	0.51
11:Fl:437:THR:O	11:Fl:441:LEU:HD23	2.10	0.51
12:G:207:GLU:HA	12:G:210:LEU:HB2	1.93	0.51
13:G1:262:TYR:CD1	13:G1:277:GLU:HA	2.45	0.51
13:G3:25:PHE:HB2	4:LK:357:TYR:CE1	2.45	0.51
14:G5:211:ARG:HH12	14:G5:213:TYR:HB2	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G5:630:ASN:C	14:G5:632:PHE:H	2.19	0.51
14:G5:638:PHE:O	14:G5:642:CYS:N	2.40	0.51
4:GA:20:CYS:O	4:GA:23:LEU:HB3	2.10	0.51
3:GB:69:GLU:OE1	3:GB:72:THR:N	2.37	0.51
4:GE:324:VAL:HB	4:GE:326:LYS:HE2	1.93	0.51
3:GJ:282:ARG:NH2	3:GJ:292:GLN:OE1	2.34	0.51
15:H2:292:MET:O	15:H2:294:ASP:N	2.44	0.51
15:H3:212:LEU:HG	15:H3:213:ILE:H	1.76	0.51
15:H4:218:ILE:HD11	15:H4:221:TYR:HD1	1.76	0.51
4:HA:5:ILE:HG13	4:HA:125:LEU:HD13	1.93	0.51
3:HB:176:SER:O	3:HB:178:THR:N	2.44	0.51
3:HB:334:GLN:O	3:HB:338:SER:OG	2.20	0.51
4:HC:396:ASP:OD1	4:HC:397:LEU:N	2.44	0.51
3:HF:324:LYS:HB3	4:HG:210:TYR:CE2	2.43	0.51
4:HI:186:ASN:OD1	4:HI:187:SER:N	2.44	0.51
3:HJ:12:CYS:SG	39:HJ:501:GTP:H5'	2.50	0.51
3:HJ:134:GLN:HA	3:HJ:165:ASN:HB3	1.93	0.51
3:HJ:206:ALA:O	3:HJ:210:ILE:HG12	2.10	0.51
3:HL:132:GLY:HA2	3:HL:162:ARG:HB3	1.92	0.51
3:HL:240:LEU:HD22	3:HL:248:ALA:HB1	1.93	0.51
4:IA:272:TYR:CE1	4:IA:374:ALA:HB1	2.46	0.51
3:IB:218:THR:OG1	3:IB:219:THR:N	2.44	0.51
4:IG:287:SER:N	4:IG:290:GLU:OE2	2.43	0.51
3:IH:375:GLN:HA	3:IH:378:PHE:CZ	2.46	0.51
4:IK:76:ASP:OD1	4:IK:79:ARG:NH1	2.44	0.51
4:IK:426:ALA:HA	4:IK:429:GLU:HG3	1.92	0.51
3:IL:194:GLU:OE1	3:IL:195:ASN:ND2	2.44	0.51
19:J3:170:SER:HB2	19:J3:171:PRO:HD2	1.93	0.51
4:JC:120:ASP:O	4:JC:123:ARG:NH1	2.44	0.51
4:JC:166:LYS:N	4:JC:199:ASP:OD2	2.44	0.51
3:JF:380:ARG:O	3:JF:384:GLN:HG2	2.11	0.51
4:JG:6:SER:HA	4:JG:136:LEU:HB2	1.93	0.51
3:JH:375:GLN:HA	3:JH:378:PHE:CZ	2.46	0.51
4:JI:50:ASN:O	4:JI:64:ARG:NH1	2.44	0.51
4:JI:81:GLY:O	4:JI:84:ARG:NH1	2.44	0.51
21:K2:214:GLU:O	21:K2:217:MET:HG3	2.11	0.51
21:K3:400:MET:SD	21:K4:247:LEU:HD11	2.51	0.51
21:K4:464:ARG:HD3	21:K4:465:LEU:HD22	1.92	0.51
3:KB:176:SER:O	3:KB:178:THR:N	2.44	0.51
4:KC:172:TYR:N	4:KC:204:VAL:O	2.41	0.51
4:KE:331:ALA:O	4:KE:334:THR:OG1	2.22	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KF:49:VAL:HG13	3:KF:50:TYR:CD2	2.46	0.51
3:KF:120:VAL:O	3:KF:124:ALA:N	2.35	0.51
3:KF:405:GLU:HA	3:KF:408:PHE:HD2	1.76	0.51
4:KG:154:MET:HE3	4:KG:194:THR:HG22	1.93	0.51
4:KI:287:SER:N	4:KI:290:GLU:OE2	2.44	0.51
3:LB:11:GLN:HG3	39:LB:501:GTP:PA	2.51	0.51
3:LD:41:ASP:O	3:LD:44:LEU:N	2.44	0.51
4:LE:139:HIS:CD2	4:LE:170:ALA:HB2	2.46	0.51
4:LG:213:CYS:O	4:LG:218:ASP:N	2.44	0.51
3:LH:11:GLN:HE21	39:LH:501:GTP:H3'	1.76	0.51
4:LI:172:TYR:N	4:LI:204:VAL:O	2.34	0.51
23:M:85:SER:OG	23:M:86:MET:SD	2.69	0.51
4:MC:1:MET:O	4:MC:131:GLY:HA3	2.11	0.51
3:MF:206:ALA:O	3:MF:210:ILE:HG12	2.11	0.51
3:MF:235:GLY:O	3:MF:238:THR:OG1	2.28	0.51
3:MH:11:GLN:O	3:MH:15:GLN:NE2	2.44	0.51
3:MH:217:LEU:HD11	3:MH:220:PRO:HB3	1.92	0.51
4:MI:204:VAL:HG23	4:MI:302:MET:HG3	1.92	0.51
3:MJ:347:ASN:OD1	4:MK:394:LYS:NZ	2.44	0.51
4:MM:196:GLU:OE1	4:MM:196:GLU:N	2.35	0.51
4:MM:216:ASN:OD1	4:MM:217:LEU:N	2.44	0.51
4:NE:208:ALA:N	4:NE:304:LYS:HZ1	2.09	0.51
4:NG:423:GLU:HA	4:NG:426:ALA:HB3	1.92	0.51
3:NH:290:THR:HG21	3:NH:329:GLN:HB3	1.92	0.51
4:NK:139:HIS:CD2	4:NK:170:ALA:HB2	2.46	0.51
28:O1:29:LYS:NZ	28:O1:31:LYS:O	2.27	0.51
3:OD:239:CYS:SG	3:OD:316:VAL:HG11	2.52	0.51
3:OF:419:VAL:O	3:OF:423:GLN:NE2	2.44	0.51
3:OJ:378:PHE:CD1	3:OJ:419:VAL:HG22	2.46	0.51
4:OK:427:ALA:HA	4:OK:430:LYS:HG2	1.93	0.51
27:P:181:GLU:HA	27:P:184:HIS:HB3	1.93	0.51
29:P1:49:ILE:HB	29:P1:58:ASN:HB2	1.92	0.51
29:P2:317:VAL:HG22	29:P2:324:GLU:HA	1.93	0.51
4:PA:9:VAL:HG23	4:PA:149:PHE:HD2	1.75	0.51
4:PA:102:ASN:HB3	4:PA:105:ARG:HB2	1.92	0.51
3:PB:19:LYS:NZ	3:PB:223:GLY:O	2.43	0.51
4:PE:30:ILE:HG13	4:PE:53:PHE:HE2	1.76	0.51
4:PG:433:GLU:O	4:PG:437:VAL:N	2.38	0.51
3:PH:190:HIS:ND1	3:PH:411:ALA:HA	2.26	0.51
3:PJ:234:SER:O	3:PJ:238:THR:HG23	2.11	0.51
4:PK:70:LEU:HA	4:PK:95:GLY:HA3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PL:3:GLU:HG2	3:PL:130:LEU:HD23	1.93	0.51
3:QB:309:ARG:HH22	3:QB:344:TRP:HZ3	1.59	0.51
4:QE:88:HIS:HB3	4:QE:91:GLN:HG3	1.93	0.51
4:QE:204:VAL:HG23	4:QE:302:MET:HG2	1.93	0.51
4:QE:287:SER:OG	4:QE:290:GLU:OE1	2.19	0.51
3:QH:269:GLY:N	3:QH:367:PHE:O	2.44	0.51
4:QI:324:VAL:HG11	3:QJ:219:THR:HB	1.92	0.51
3:RB:318:ARG:HA	3:RB:354:CYS:HB3	1.92	0.51
4:RC:46:ASP:OD1	4:RC:50:ASN:ND2	2.41	0.51
3:RF:172:SER:OG	3:RF:205:GLU:OE2	2.25	0.51
4:RI:141:PHE:HB2	4:RI:173:PRO:HD3	1.92	0.51
4:RK:10:GLY:O	4:RK:14:VAL:HG13	2.11	0.51
3:SB:345:ILE:HD12	3:SB:346:PRO:HD2	1.92	0.51
3:SF:267:MET:O	3:SF:369:GLY:N	2.41	0.51
4:SI:46:ASP:OD1	4:SI:50:ASN:ND2	2.42	0.51
4:SI:323:VAL:HG22	4:SI:373:ARG:HG2	1.92	0.51
3:SJ:186:THR:HB	3:SJ:385:PHE:CZ	2.46	0.51
3:SJ:273:LEU:H	3:SJ:292:GLN:HE22	1.56	0.51
3:SL:84:ILE:O	3:SL:86:ARG:NH1	2.43	0.51
3:SL:309:ARG:H	3:SL:372:THR:HG1	1.55	0.51
4:SM:319:TYR:HB2	4:SM:355:ILE:HD13	1.93	0.51
3:TD:269:GLY:N	3:TD:367:PHE:O	2.45	0.51
4:TE:171:ILE:HD12	4:TE:204:VAL:HG13	1.92	0.51
4:TE:372:GLN:NE2	36:Y:157:ARG:O	2.43	0.51
4:TK:321:GLY:HA3	4:TK:372:GLN:O	2.10	0.51
3:TL:285:THR:O	3:TL:288:GLU:HG3	2.11	0.51
4:TM:12:ALA:HB2	39:TM:501:GTP:H5"	1.92	0.51
4:TM:351:PHE:O	4:TM:352:LYS:HD2	2.10	0.51
3:UH:285:THR:O	3:UH:288:GLU:HG3	2.11	0.51
3:UH:302:ALA:HB1	3:UH:377:LEU:HD21	1.93	0.51
4:UI:67:PHE:HB2	4:UI:92:LEU:HD13	1.92	0.51
3:UJ:2:ARG:HB3	3:UJ:131:GLN:NE2	2.26	0.51
3:VB:131:GLN:HB3	3:VB:163:ILE:HD12	1.92	0.51
4:VE:214:ARG:NH1	4:VE:215:ARG:HG3	2.25	0.51
3:VF:131:GLN:HB3	3:VF:163:ILE:HD12	1.92	0.51
3:VF:419:VAL:O	3:VF:423:GLN:NE2	2.44	0.51
3:VH:77:ARG:O	3:VH:82:GLY:HA3	2.11	0.51
4:VI:139:HIS:CD2	4:VI:170:ALA:HB2	2.46	0.51
4:WA:396:ASP:HB3	4:WA:422:ARG:HH22	1.76	0.51
4:WE:1:MET:O	4:WE:131:GLY:HA3	2.11	0.51
3:WF:16:ILE:HD13	3:WF:226:ASN:HD22	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:WF:95:SER:HA	35:XJ:72:ASP:OD2	2.10	0.51
3:WF:305:PRO:HB2	3:WF:310:TYR:HE1	1.74	0.51
3:WF:317:PHE:HB3	3:WF:321:MET:HE3	1.93	0.51
4:WG:116:ASP:N	4:WG:116:ASP:OD1	2.43	0.51
4:WG:260:VAL:HG23	4:WG:265:ILE:O	2.11	0.51
4:WI:161:TYR:HB3	4:WI:164:LYS:HZ3	1.74	0.51
4:WI:272:TYR:CZ	4:WI:274:PRO:HG2	2.46	0.51
3:WL:2:ARG:HB3	3:WL:131:GLN:NE2	2.26	0.51
3:WL:12:CYS:HA	39:WL:501:GTP:N2	2.26	0.51
3:WL:178:THR:HB	3:WL:181:GLU:HB2	1.93	0.51
3:WL:406:MET:O	3:WL:409:THR:OG1	2.18	0.51
34:XE:86:TYR:HA	34:XE:107:ASN:HD21	1.76	0.51
34:XG:25:TRP:HE3	34:XG:59:ILE:HG13	1.75	0.51
37:YE:57:CYS:O	37:YE:63:ARG:NH1	2.43	0.51
37:YE:125:LEU:HB2	37:YE:130:ALA:HB2	1.92	0.51
37:YG:147:PHE:HA	37:YG:150:GLU:OE1	2.11	0.51
37:YK:70:MET:N	37:YK:70:MET:SD	2.83	0.51
37:YL:25:PHE:CE1	37:YL:66:LEU:HD13	2.46	0.51
37:YM:18:PHE:O	37:YM:22:GLN:N	2.44	0.51
37:YT:125:LEU:HD23	37:YT:130:ALA:HB2	1.93	0.51
1:A:31:MET:O	1:A:35:GLU:HG2	2.10	0.50
2:A1:143:ILE:O	2:A1:147:MET:HG2	2.11	0.50
3:AB:172:SER:OG	3:AB:205:GLU:OE2	2.21	0.50
4:AC:154:MET:HA	4:AC:157:LEU:HG	1.93	0.50
3:AD:2:ARG:HB3	3:AD:131:GLN:NE2	2.26	0.50
4:AE:154:MET:HE1	4:AE:197:HIS:HB2	1.93	0.50
4:AE:273:ALA:HB2	4:AE:295:CYS:HB3	1.93	0.50
3:AF:172:SER:OG	3:AF:205:GLU:OE2	2.21	0.50
4:AG:176:GLN:NE2	4:AG:207:GLU:OE2	2.44	0.50
4:AG:271:THR:HG23	4:AG:302:MET:HE1	1.92	0.50
4:AG:345:ASP:OD1	4:AG:345:ASP:N	2.43	0.50
4:AG:363:VAL:HG13	4:AG:366:GLY:HA3	1.93	0.50
3:AH:271:ALA:HB2	3:AH:365:ALA:HB3	1.92	0.50
3:AJ:306:ARG:O	3:AJ:306:ARG:NE	2.39	0.50
3:AJ:318:ARG:HD3	3:AJ:358:PRO:HG3	1.92	0.50
3:AJ:375:GLN:HA	3:AJ:378:PHE:CZ	2.46	0.50
3:AJ:378:PHE:CD1	3:AJ:419:VAL:HG22	2.46	0.50
5:B1:319:GLU:HG3	5:B2:202:LYS:CG	2.41	0.50
5:B2:7:LYS:HD2	8:D5:326:LEU:HD12	1.93	0.50
5:B2:408:VAL:HG13	5:B2:409:ASP:H	1.76	0.50
5:B3:171:GLN:NE2	5:B3:172:LEU:HG	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B6:73:ARG:O	5:B6:77:THR:HG23	2.11	0.50
5:B7:117:LEU:O	5:B7:121:GLU:HG2	2.11	0.50
5:B7:205:PRO:HB2	5:B8:318:LEU:CD1	2.41	0.50
5:B8:45:LEU:HA	19:J1:97:ARG:CZ	2.41	0.50
5:B8:78:LEU:HD13	5:B8:179:LYS:HZ2	1.74	0.50
5:B9:272:MET:HE2	5:B9:272:MET:N	2.26	0.50
3:BB:12:CYS:HA	3:BB:15:GLN:NE2	2.15	0.50
3:BD:2:ARG:HA	3:BD:129:CYS:O	2.11	0.50
4:BE:260:VAL:HG23	4:BE:265:ILE:O	2.11	0.50
3:BF:197:ASP:HA	3:BF:264:HIS:ND1	2.26	0.50
3:BH:319:GLY:HA3	3:BH:363:MET:HA	1.93	0.50
6:C:59:VAL:HG23	6:C:60:LYS:HD3	1.93	0.50
6:C:268:ILE:HD13	6:C:273:LEU:HD11	1.92	0.50
7:C1:287:VAL:HG11	7:C2:401:ASP:HB2	1.93	0.50
7:C2:114:ARG:CZ	7:C3:367:LYS:HD3	2.41	0.50
7:C3:141:HIS:ND1	7:C3:144:GLN:OE1	2.40	0.50
7:C4:284:PHE:HZ	7:C5:400:LEU:HD22	1.75	0.50
7:C6:285:ARG:N	7:Ca:446:GLN:OE1	2.44	0.50
3:CB:305:PRO:HB2	3:CB:310:TYR:HE1	1.76	0.50
4:CC:5:ILE:HD13	4:CC:64:ARG:HB3	1.92	0.50
3:CH:217:LEU:HD11	3:CH:220:PRO:HB3	1.93	0.50
4:CI:230:LEU:O	4:CI:234:ILE:HG12	2.11	0.50
3:CJ:217:LEU:HD11	3:CJ:220:PRO:HB3	1.93	0.50
4:CK:116:ASP:N	4:CK:116:ASP:OD1	2.44	0.50
3:CL:13:GLY:HA2	3:CL:16:ILE:HB	1.94	0.50
4:CM:316:CYS:HB3	4:CM:378:LEU:HB3	1.92	0.50
7:Cc:337:TRP:HH2	11:Fg:348:SER:HA	1.77	0.50
6:D:260:CYS:O	6:D:375:CYS:HA	2.11	0.50
8:D2:266:LEU:O	8:D2:270:ARG:HG3	2.11	0.50
8:D7:403:ARG:O	8:D7:406:GLU:HG2	2.11	0.50
8:D8:234:GLU:OE1	8:D8:234:GLU:N	2.44	0.50
8:D9:407:ASP:O	8:D9:410:MET:HG3	2.11	0.50
4:DA:264:ARG:O	4:DA:266:HIS:ND1	2.39	0.50
4:DC:141:PHE:HB2	4:DC:173:PRO:HD3	1.93	0.50
3:DD:28:HIS:ND1	3:DD:43:GLN:HB2	2.26	0.50
3:DF:39:ASP:OD1	3:DF:43:GLN:NE2	2.44	0.50
4:DI:208:ALA:HA	4:DI:211:ASP:HB2	1.93	0.50
4:DI:269:LEU:N	4:DI:379:SER:O	2.31	0.50
3:DJ:53:GLU:HG2	15:H6:288:PHE:CZ	2.46	0.50
4:DK:10:GLY:O	4:DK:14:VAL:HG13	2.10	0.50
3:DL:132:GLY:HA2	3:DL:162:ARG:HB3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EF:46:ARG:HH12	4:EG:73:THR:HG23	1.75	0.50
4:EI:216:ASN:OD1	4:EI:217:LEU:N	2.45	0.50
11:F1:426:THR:HA	11:F2:127:LYS:HZ3	1.76	0.50
11:F7:175:ARG:HA	11:F7:178:GLU:HG3	1.93	0.50
4:FA:81:GLY:O	4:FA:84:ARG:NH1	2.44	0.50
4:FA:295:CYS:HB2	4:FA:377:MET:HE3	1.93	0.50
3:FB:309:ARG:O	3:FB:371:SER:OG	2.22	0.50
3:FD:240:LEU:HD22	3:FD:248:ALA:HB1	1.93	0.50
3:FF:318:ARG:HD3	3:FF:358:PRO:HG3	1.93	0.50
4:FG:116:ASP:OD1	4:FG:117:LEU:N	2.44	0.50
4:FG:143:GLY:HA3	4:FG:147:SER:H	1.75	0.50
4:FG:345:ASP:OD1	4:FG:345:ASP:N	2.44	0.50
4:FK:16:ILE:HG22	4:FK:228:ASN:OD1	2.11	0.50
11:Fc:245:ASP:HA	11:Fc:248:HIS:ND1	2.25	0.50
11:Ff:162:ARG:HB3	11:Ff:311:ARG:NH1	2.26	0.50
11:Fh:391:MET:O	11:Fh:394:THR:OG1	2.23	0.50
11:Fi:218:GLU:HG3	11:Fi:335:GLN:HE21	1.76	0.50
11:Fi:295:THR:HG22	11:Fi:297:ALA:H	1.76	0.50
11:Fi:382:ILE:HD13	11:Fi:430:LEU:HB2	1.93	0.50
11:Fl:126:ASP:OD1	11:Fl:127:LYS:NZ	2.44	0.50
11:Fm:208:HIS:CD2	11:Fm:213:LYS:HG3	2.46	0.50
11:Fm:355:ASN:O	11:Fm:358:GLN:HG2	2.11	0.50
13:G2:153:ARG:HB3	13:G2:162:HIS:ND1	2.26	0.50
13:G2:453:GLU:N	13:G2:464:GLY:O	2.35	0.50
13:G3:35:ASN:O	13:G3:37:TYR:N	2.45	0.50
14:G4:523:LEU:HD11	14:G4:724:MET:HA	1.93	0.50
14:G5:515:ILE:O	14:G5:515:ILE:HG13	2.12	0.50
14:G5:596:ASP:O	14:G5:600:ILE:HG12	2.11	0.50
14:G6:230:LEU:O	14:G6:252:HIS:HA	2.11	0.50
14:G6:437:PHE:HB3	14:G6:451:ILE:HG12	1.93	0.50
14:G6:583:ARG:NH2	14:G6:725:PRO:HG3	2.26	0.50
4:GC:392:ASP:OD1	4:GC:393:HIS:N	2.43	0.50
4:GE:81:GLY:O	4:GE:84:ARG:NH1	2.44	0.50
3:GJ:152:ILE:HD12	3:GJ:195:ASN:HB2	1.93	0.50
4:GK:273:ALA:HB2	4:GK:295:CYS:HB3	1.93	0.50
12:H:467:GLU:HA	12:H:470:ARG:HE	1.75	0.50
4:HC:157:LEU:HD11	4:HC:166:LYS:NZ	2.26	0.50
3:HD:199:THR:OG1	3:HD:264:HIS:O	2.27	0.50
3:HF:389:PHE:HZ	3:HF:405:GLU:HB3	1.76	0.50
4:HG:50:ASN:O	4:HG:64:ARG:NH1	2.44	0.50
4:HI:160:ASP:OD1	4:HI:161:TYR:N	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HI:285:GLN:HE22	4:HI:287:SER:HB3	1.75	0.50
3:ID:378:PHE:HA	3:ID:381:ILE:HG12	1.92	0.50
3:IF:52:ASN:OD1	3:IF:62:ARG:NH1	2.43	0.50
3:IF:372:THR:HG21	3:IF:426:GLN:HG3	1.93	0.50
4:IG:272:TYR:HD2	4:IG:275:VAL:HG13	1.76	0.50
3:IL:374:ILE:HG23	3:IL:377:LEU:HD12	1.93	0.50
3:IL:378:PHE:CD1	3:IL:419:VAL:HG22	2.46	0.50
4:IM:145:THR:OG1	39:IM:501:GTP:O1B	2.27	0.50
4:IM:192:HIS:HA	4:IM:195:LEU:HD23	1.92	0.50
4:IM:401:LYS:C	4:IM:402:ARG:HD3	2.35	0.50
19:J3:162:ARG:NH2	19:J3:163:ASN:O	2.44	0.50
19:J3:186:MET:C	19:J3:189:MET:HE1	2.36	0.50
3:JB:193:VAL:HG22	3:JB:262:ARG:HH21	1.75	0.50
3:JB:419:VAL:O	3:JB:423:GLN:NE2	2.45	0.50
4:JE:65:ALA:O	4:JE:91:GLN:NE2	2.45	0.50
3:JF:111:GLU:HG2	3:JF:112:LEU:HD12	1.93	0.50
4:JG:68:VAL:HA	4:JG:93:ILE:HB	1.93	0.50
4:JG:269:LEU:N	4:JG:379:SER:O	2.33	0.50
3:JJ:378:PHE:CD1	3:JJ:419:VAL:HG22	2.46	0.50
4:JK:10:GLY:O	4:JK:14:VAL:HG13	2.12	0.50
21:K1:374:THR:HA	21:K1:377:ILE:HB	1.92	0.50
21:K3:206:LEU:O	21:K3:210:LYS:HG2	2.10	0.50
21:K3:250:GLN:HE22	21:K3:252:LEU:HD13	1.76	0.50
4:KA:34:GLY:HA2	4:KA:86:LEU:HD11	1.94	0.50
3:KB:305:PRO:HB2	3:KB:310:TYR:HE1	1.76	0.50
3:KF:12:CYS:SG	3:KF:13:GLY:N	2.84	0.50
3:KH:375:GLN:HA	3:KH:378:PHE:CZ	2.46	0.50
22:L1:97:MET:HE3	3:LB:389:PHE:HD2	1.76	0.50
22:L4:24:HIS:HB3	4:MM:426:ALA:HB1	1.93	0.50
4:LA:207:GLU:HB2	4:LA:304:LYS:NZ	2.23	0.50
4:LC:22:GLU:O	4:LC:26:LEU:HD23	2.10	0.50
3:LD:2:ARG:HA	3:LD:129:CYS:O	2.11	0.50
3:LD:139:LEU:N	3:LD:168:SER:OG	2.44	0.50
4:LE:83:TYR:HB3	4:LE:86:LEU:HD12	1.93	0.50
3:LF:55:THR:HG23	3:MF:283:ALA:HA	1.93	0.50
3:LF:372:THR:HB	3:LF:375:GLN:HE22	1.76	0.50
4:LG:22:GLU:O	4:LG:26:LEU:HD23	2.11	0.50
3:LJ:81:PHE:O	3:LJ:84:ILE:HG22	2.11	0.50
3:LL:52:ASN:CG	3:LL:62:ARG:HD3	2.36	0.50
3:LL:372:THR:HB	3:LL:375:GLN:HE22	1.74	0.50
24:M2:94:GLU:OE1	24:M2:94:GLU:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MD:152:ILE:HD12	3:MD:195:ASN:HB2	1.92	0.50
3:MF:269:GLY:O	3:MF:367:PHE:N	2.28	0.50
4:MG:308:ARG:NH2	4:MG:340:THR:O	2.44	0.50
3:MH:135:LEU:O	3:MH:167:PHE:N	2.43	0.50
3:MH:186:THR:HB	3:MH:385:PHE:CZ	2.46	0.50
4:MI:207:GLU:HB2	4:MI:304:LYS:NZ	2.26	0.50
3:MJ:12:CYS:SG	3:MJ:13:GLY:N	2.84	0.50
4:NC:52:PHE:HZ	4:NC:239:THR:HB	1.76	0.50
4:NE:287:SER:OG	4:NE:290:GLU:OE1	2.24	0.50
3:NF:139:LEU:N	3:NF:168:SER:OG	2.43	0.50
4:NI:152:LEU:O	4:NI:156:ARG:NH1	2.44	0.50
4:OA:260:VAL:HG23	4:OA:265:ILE:O	2.11	0.50
4:OE:11:GLN:HG3	39:OE:501:GTP:O1B	2.12	0.50
4:OE:208:ALA:N	4:OE:304:LYS:HZ1	2.06	0.50
3:OF:3:GLU:OE2	3:OF:127:CYS:HB2	2.11	0.50
4:OG:132:LEU:O	4:OG:164:LYS:HE2	2.11	0.50
4:OG:180:ALA:HB1	4:OG:182:VAL:HG12	1.92	0.50
4:OI:189:LEU:HA	4:OI:192:HIS:CE1	2.46	0.50
3:OJ:217:LEU:HD11	3:OJ:220:PRO:HB3	1.93	0.50
4:OK:122:ILE:O	4:OK:126:ALA:N	2.43	0.50
4:OK:311:LYS:HE3	4:OK:344:VAL:HG12	1.93	0.50
3:OL:114:ASP:OD1	3:OL:115:SER:N	2.44	0.50
29:P2:120:SER:OG	29:P2:124:LEU:N	2.37	0.50
29:P2:336:GLN:HG3	29:P2:377:CYS:O	2.11	0.50
29:P3:127:VAL:HG22	29:P3:139:VAL:HG22	1.93	0.50
29:P3:230:LEU:HD13	29:P3:242:THR:HG22	1.91	0.50
29:P3:297:THR:O	29:P3:305:PHE:HB2	2.10	0.50
3:PB:109:GLY:O	3:PB:113:VAL:HG13	2.10	0.50
4:PC:311:LYS:HE3	4:PC:344:VAL:HG12	1.93	0.50
4:PG:316:CYS:N	4:PG:378:LEU:O	2.44	0.50
3:PL:374:ILE:HA	3:PL:377:LEU:HD13	1.93	0.50
27:Q:107:ARG:H	27:Q:110:PHE:HB2	1.76	0.50
4:QC:220:GLU:O	4:QC:221:ARG:NE	2.41	0.50
27:R:170:ARG:HB3	27:R:174:ARG:NH1	2.26	0.50
4:RC:171:ILE:HD12	4:RC:204:VAL:HG13	1.91	0.50
4:RC:287:SER:N	4:RC:290:GLU:OE2	2.44	0.50
3:RD:206:ALA:O	3:RD:210:ILE:HG12	2.11	0.50
3:RF:302:ALA:HB1	3:RF:377:LEU:HD11	1.92	0.50
4:RG:79:ARG:HH22	4:RG:94:THR:HB	1.76	0.50
4:RG:264:ARG:O	4:RG:266:HIS:ND1	2.43	0.50
4:RI:9:VAL:HA	4:RI:68:VAL:HG23	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:RM:61:HIS:O	4:RM:86:LEU:HD12	2.11	0.50
4:RM:329:ASN:OD1	4:RM:330:ALA:N	2.44	0.50
4:SC:352:LYS:NZ	3:SD:179:VAL:H	2.09	0.50
4:SC:390:ARG:HA	4:SC:393:HIS:CD2	2.46	0.50
4:SK:188:ILE:HG22	4:SK:421:ALA:HB1	1.93	0.50
3:SL:378:PHE:CD1	3:SL:419:VAL:HG22	2.45	0.50
3:TB:130:LEU:H	3:TB:162:ARG:NH1	2.09	0.50
3:TD:394:PHE:HA	3:TD:397:TRP:HZ3	1.76	0.50
3:TH:268:PRO:HD2	3:TH:301:ALA:HB2	1.93	0.50
4:TK:47:ASP:HB3	4:TK:49:PHE:CE2	2.46	0.50
3:TL:48:ASN:HA	3:TL:51:TYR:O	2.11	0.50
4:TM:216:ASN:ND2	4:TM:275:VAL:O	2.44	0.50
33:U:211:ILE:HG23	33:U:215:GLN:HE22	1.76	0.50
4:UA:279:GLU:O	4:UA:282:TYR:HB3	2.11	0.50
3:UB:132:GLY:HA3	3:UB:163:ILE:H	1.76	0.50
3:UD:344:TRP:CE2	4:UE:401:LYS:HD2	2.46	0.50
3:UF:131:GLN:HB3	3:UF:163:ILE:HD12	1.93	0.50
3:UF:152:ILE:HD12	3:UF:195:ASN:HB2	1.93	0.50
4:UG:265:ILE:HD12	4:UG:432:TYR:CE1	2.46	0.50
3:UH:120:VAL:O	3:UH:124:ALA:N	2.41	0.50
4:UK:245:ASP:O	4:UK:356:ASN:ND2	2.44	0.50
4:VA:6:SER:HA	4:VA:136:LEU:HB2	1.93	0.50
4:VA:404:PHE:HB3	4:VA:407:TRP:HD1	1.76	0.50
3:VB:234:SER:O	3:VB:238:THR:HG23	2.11	0.50
3:VB:316:VAL:HG22	3:VB:352:ALA:HB3	1.93	0.50
3:VB:423:GLN:O	3:VB:427:ASP:N	2.43	0.50
4:VC:115:VAL:HA	4:VC:118:VAL:HG22	1.93	0.50
4:VE:396:ASP:OD1	4:VE:397:LEU:N	2.44	0.50
3:VF:375:GLN:HA	3:VF:378:PHE:CZ	2.46	0.50
4:VG:154:MET:HE1	4:VG:197:HIS:HB2	1.92	0.50
4:VI:271:THR:HB	4:VI:377:MET:HB2	1.92	0.50
4:VK:103:TYR:HB2	4:VK:186:ASN:HB2	1.93	0.50
4:VK:176:GLN:NE2	4:VK:207:GLU:OE2	2.43	0.50
3:VL:375:GLN:HA	3:VL:378:PHE:CZ	2.46	0.50
33:W:319:ASN:O	33:W:323:GLN:HG2	2.11	0.50
3:WB:172:SER:OG	3:WB:205:GLU:OE2	2.27	0.50
3:WD:309:ARG:HH22	3:WD:344:TRP:HZ3	1.60	0.50
4:WE:351:PHE:HZ	3:WF:175:VAL:HB	1.75	0.50
4:WG:307:PRO:O	4:WG:342:GLN:NE2	2.44	0.50
3:WH:176:SER:O	3:WH:178:THR:N	2.44	0.50
4:WI:145:THR:OG1	39:WI:501:GTP:O1B	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:WL:11:GLN:HE21	39:WL:501:GTP:H3'	1.76	0.50
3:WL:385:PHE:HZ	3:WL:408:PHE:HB3	1.75	0.50
34:XA:79:ILE:HD13	34:XA:164:ARG:HB3	1.93	0.50
34:XA:88:THR:HG23	34:XA:157:HIS:CG	2.47	0.50
34:XA:90:GLU:HB3	34:XA:153:ARG:HH12	1.75	0.50
34:XA:107:ASN:HB3	34:XA:123:MET:HE3	1.93	0.50
34:XD:138:ASP:OD1	34:XD:141:ARG:NH2	2.45	0.50
37:YF:14:LYS:O	37:YF:18:PHE:N	2.40	0.50
37:YO:16:LYS:HG2	37:YP:55:HIS:NE2	2.26	0.50
37:YP:30:GLU:OE1	37:YP:33:ARG:NH2	2.44	0.50
37:YQ:46:ILE:HG23	37:YQ:70:MET:HE1	1.93	0.50
37:YW:43:ILE:HG13	37:YW:137:VAL:HG11	1.91	0.50
2:A2:214:LEU:O	2:A2:217:TRP:HB3	2.11	0.50
2:A3:162:ARG:NH1	13:G2:199:ILE:HG13	2.27	0.50
2:A3:374:GLU:O	2:A3:378:VAL:HG23	2.11	0.50
3:AB:239:CYS:SG	3:AB:248:ALA:HA	2.51	0.50
4:AC:287:SER:N	4:AC:290:GLU:OE2	2.44	0.50
4:AG:260:VAL:HG23	4:AG:265:ILE:O	2.11	0.50
3:AH:269:GLY:O	3:AH:367:PHE:N	2.31	0.50
3:AJ:8:GLN:OE1	3:AJ:17:GLY:HA3	2.12	0.50
3:AJ:91:VAL:HG11	3:AJ:116:VAL:HG12	1.93	0.50
3:AL:289:LEU:O	3:AL:293:MET:HG2	2.11	0.50
4:AM:208:ALA:N	4:AM:304:LYS:HZ1	2.07	0.50
1:B:433:GLN:HB2	1:B:436:ARG:HE	1.77	0.50
5:B2:233:MET:O	5:B2:236:SER:OG	2.20	0.50
5:B2:258:ARG:O	5:B2:262:GLU:HG2	2.11	0.50
5:B3:333:GLN:OE1	5:B3:333:GLN:N	2.37	0.50
5:B4:82:LEU:HD21	5:B4:172:LEU:HB3	1.92	0.50
5:B6:203:VAL:HG13	5:B6:207:ARG:NH2	2.26	0.50
5:B7:364:ASP:O	5:B7:368:LYS:HG2	2.11	0.50
3:BF:378:PHE:HA	3:BF:381:ILE:HG22	1.93	0.50
4:BG:72:PRO:HA	4:BG:75:VAL:HG12	1.94	0.50
4:BI:386:GLU:HA	4:BI:389:ALA:HB3	1.93	0.50
3:BJ:214:THR:HG21	3:BJ:273:LEU:HB3	1.93	0.50
4:BK:400:ALA:O	4:BK:402:ARG:NH1	2.44	0.50
3:BL:420:SER:O	3:BL:424:GLN:N	2.34	0.50
7:C1:293:THR:OG1	7:C2:411:LEU:HB3	2.11	0.50
7:C2:266:ARG:HG2	7:C2:270:LYS:NZ	2.26	0.50
7:C6:94:TYR:HE1	7:C7:210:LEU:HD23	1.76	0.50
7:C8:296:VAL:O	7:C8:299:THR:OG1	2.21	0.50
3:CB:65:LEU:HD21	3:CB:73:MET:HG2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CC:145:THR:HG23	39:CC:501:GTP:O3B	2.11	0.50
4:CE:113:GLU:OE1	4:CE:113:GLU:N	2.43	0.50
3:CF:3:GLU:HG2	3:CF:130:LEU:HD13	1.93	0.50
3:CF:41:ASP:N	3:CF:41:ASP:OD1	2.44	0.50
4:CI:287:SER:N	4:CI:290:GLU:OE2	2.43	0.50
3:CL:9:ALA:HB2	3:CL:135:LEU:HD11	1.93	0.50
4:CM:271:THR:HB	4:CM:377:MET:HE3	1.92	0.50
7:Cc:124:THR:O	7:Cc:127:LEU:HG	2.10	0.50
8:D3:373:ALA:HA	8:D3:376:ARG:HG2	1.93	0.50
8:D4:116:GLU:O	8:D4:119:ARG:NH2	2.44	0.50
8:D9:412:LEU:O	8:D9:416:ILE:HG12	2.10	0.50
3:DB:72:THR:O	3:DB:75:SER:OG	2.23	0.50
3:DB:117:LEU:HD11	3:DB:154:LYS:HD2	1.93	0.50
3:DD:45:GLU:CD	15:H3:287:GLY:HA3	2.36	0.50
4:DE:172:TYR:HD1	4:DE:203:MET:HG2	1.76	0.50
4:DE:260:VAL:HG23	4:DE:265:ILE:O	2.10	0.50
4:DI:42:ILE:HG21	4:DI:59:GLY:HA2	1.93	0.50
4:DI:256:GLN:O	4:DI:260:VAL:HG12	2.11	0.50
3:DJ:406:MET:N	3:DJ:406:MET:SD	2.82	0.50
4:DK:102:ASN:HB3	4:DK:105:ARG:HB2	1.93	0.50
3:DL:148:GLY:O	3:DL:152:ILE:HG12	2.11	0.50
3:DL:380:ARG:O	3:DL:384:GLN:HG2	2.11	0.50
10:E2:13:VAL:N	10:E2:14:PRO:HD3	2.27	0.50
4:EA:180:ALA:HB3	4:EA:183:GLU:HG3	1.93	0.50
3:EB:130:LEU:HB2	3:EB:162:ARG:HH11	1.77	0.50
3:EB:246:LEU:HD22	3:EB:354:CYS:HA	1.92	0.50
3:EB:313:VAL:HG23	3:EB:349:VAL:HA	1.93	0.50
4:EG:139:HIS:CD2	4:EG:170:ALA:HB2	2.46	0.50
3:EH:318:ARG:C	3:EH:321:MET:HE1	2.36	0.50
4:EI:213:CYS:O	4:EI:218:ASP:N	2.44	0.50
3:EJ:2:ARG:HA	3:EJ:129:CYS:O	2.10	0.50
3:EJ:11:GLN:HG3	39:EJ:501:GTP:PA	2.51	0.50
3:EL:7:LEU:HD13	3:EL:64:VAL:HB	1.93	0.50
11:F3:399:ARG:NH2	11:F3:408:CYS:H	2.09	0.50
11:F4:91:THR:OG1	11:F4:94:ASP:OD2	2.23	0.50
11:F5:289:THR:OG1	11:F6:407:LEU:HB3	2.11	0.50
11:F6:162:ARG:HB3	11:F6:311:ARG:NH1	2.26	0.50
11:F7:136:GLU:OE1	11:Fc:147:SER:HB2	2.12	0.50
11:F8:214:ASN:OD1	11:F8:339:THR:HG22	2.11	0.50
11:F8:466:LYS:HG3	11:F8:467:ASP:H	1.77	0.50
3:FB:229:VAL:C	3:FB:233:MET:HE3	2.37	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FD:12:CYS:SG	3:FD:13:GLY:N	2.84	0.50
4:FE:47:ASP:HB3	4:FE:49:PHE:CE2	2.46	0.50
4:FG:66:VAL:HG12	4:FG:68:VAL:HG13	1.93	0.50
4:FG:287:SER:OG	4:FG:290:GLU:OE1	2.27	0.50
4:FK:47:ASP:HB3	4:FK:49:PHE:CE2	2.46	0.50
11:Fe:247:GLN:NE2	11:Fe:251:GLU:OE2	2.37	0.50
11:Fg:194:CYS:SG	11:Fg:472:MET:HB2	2.51	0.50
11:Fk:134:MET:O	11:Fk:138:THR:N	2.32	0.50
11:Fm:382:ILE:O	11:Fm:385:LYS:HG2	2.10	0.50
12:G:288:LEU:HD23	4:GG:370:LYS:HE2	1.93	0.50
13:G1:133:VAL:H	13:G1:147:LYS:HZ1	1.60	0.50
13:G1:522:GLN:OE1	13:G1:522:GLN:N	2.34	0.50
14:G5:284:LEU:HD11	14:G5:346:VAL:HA	1.93	0.50
14:G6:230:LEU:HD12	14:G6:360:THR:HG22	1.93	0.50
3:GB:330:MET:HG2	3:GB:349:VAL:HG11	1.94	0.50
4:GC:211:ASP:O	4:GC:214:ARG:NH1	2.44	0.50
4:GC:272:TYR:CZ	4:GC:274:PRO:HG2	2.46	0.50
3:GD:318:ARG:HD3	3:GD:358:PRO:HG3	1.93	0.50
3:GF:35:THR:HG22	3:GF:58:LYS:HD2	1.92	0.50
3:GF:372:THR:HB	3:GF:375:GLN:HE22	1.76	0.50
3:GH:87:PRO:HA	3:GH:90:PHE:CD2	2.47	0.50
3:GJ:266:PHE:HD1	3:GJ:370:ASN:HB2	1.76	0.50
3:GL:2:ARG:HB3	3:GL:131:GLN:NE2	2.26	0.50
3:GL:70:PRO:O	3:GL:73:MET:HG2	2.11	0.50
3:GL:419:VAL:O	3:GL:423:GLN:NE2	2.44	0.50
12:H:448:ARG:O	12:H:452:GLN:N	2.33	0.50
15:H5:24:TYR:H	15:H5:27:LEU:HD23	1.76	0.50
4:HA:258:ASN:HD22	3:HB:179:VAL:HG22	1.76	0.50
4:HA:346:TRP:HZ2	3:HB:391:ARG:HH11	1.59	0.50
3:HB:317:PHE:O	3:HB:354:CYS:N	2.34	0.50
3:HD:261:PRO:HD3	4:HE:406:HIS:CG	2.46	0.50
4:HE:47:ASP:HB3	4:HE:49:PHE:CE2	2.46	0.50
4:HE:186:ASN:OD1	4:HE:187:SER:N	2.43	0.50
4:HG:243:ARG:HG3	4:HG:244:PHE:CD1	2.46	0.50
4:HG:319:TYR:HB2	4:HG:355:ILE:HD13	1.94	0.50
3:HJ:269:GLY:HA2	3:HJ:300:MET:HE1	1.92	0.50
4:IC:89:PRO:HD3	3:JB:281:TYR:CE2	2.45	0.50
4:IE:224:TYR:O	4:IE:228:ASN:N	2.21	0.50
3:IF:250:LEU:HD12	3:IF:253:LEU:HB2	1.92	0.50
3:IL:415:MET:O	3:IL:419:VAL:HG23	2.12	0.50
18:J:35:GLU:H	3:JF:276:ARG:NH2	2.09	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:J1:47:ILE:HA	19:J1:100:ARG:HB3	1.93	0.50
19:J3:22:SER:H	19:J3:139:ARG:HH21	1.59	0.50
4:JA:216:ASN:ND2	4:JA:275:VAL:O	2.45	0.50
3:JB:83:GLN:O	3:JB:86:ARG:NH2	2.44	0.50
4:JC:50:ASN:OD1	4:JC:51:THR:N	2.45	0.50
4:JC:411:GLU:OE2	4:JC:413:MET:HE1	2.12	0.50
4:JE:22:GLU:O	4:JE:26:LEU:HD23	2.11	0.50
4:JE:35:GLN:HG2	4:JE:59:GLY:O	2.11	0.50
4:JE:362:VAL:HA	4:JE:368:LEU:HD11	1.92	0.50
3:JF:197:ASP:OD1	3:JF:198:GLU:N	2.44	0.50
4:JG:316:CYS:HB3	4:JG:378:LEU:HB3	1.93	0.50
4:JI:406:HIS:HA	4:JI:409:VAL:HG22	1.92	0.50
4:JK:52:PHE:CZ	4:JK:239:THR:HB	2.45	0.50
4:JK:54:SER:N	4:JK:62:VAL:O	2.43	0.50
4:JK:196:GLU:OE1	4:JK:196:GLU:N	2.36	0.50
4:JK:262:TYR:CE1	3:JL:393:ALA:HA	2.46	0.50
3:JL:3:GLU:OE2	3:JL:127:CYS:HB2	2.12	0.50
3:JL:218:THR:OG1	3:JL:219:THR:N	2.43	0.50
21:K3:19:PRO:O	21:K3:22:ARG:HG2	2.11	0.50
21:K4:196:ASP:OD1	21:K4:197:SER:N	2.44	0.50
4:KC:31:GLN:HE22	4:KC:37:PRO:HD3	1.76	0.50
4:KC:263:PRO:HD3	3:KD:396:HIS:CD2	2.47	0.50
4:KE:88:HIS:CE1	4:KE:121:ARG:HH22	2.29	0.50
3:KF:324:LYS:NZ	4:KG:222:PRO:O	2.31	0.50
4:KG:5:ILE:HD13	4:KG:64:ARG:HB3	1.93	0.50
4:KG:65:ALA:C	4:KG:91:GLN:HE21	2.19	0.50
4:KG:213:CYS:SG	4:KG:219:ILE:HB	2.51	0.50
4:KG:408:TYR:HB3	4:KG:413:MET:HG2	1.93	0.50
3:KH:324:LYS:HD3	4:KI:210:TYR:CE1	2.46	0.50
4:KI:54:SER:N	4:KI:62:VAL:O	2.42	0.50
3:KJ:325:GLU:O	3:KJ:329:GLN:HG2	2.12	0.50
3:KL:406:MET:O	3:KL:409:THR:OG1	2.29	0.50
22:L2:39:MET:HE2	4:ME:390:ARG:NH2	2.25	0.50
22:L2:89:PRO:HB2	22:L2:91:ARG:H	1.76	0.50
4:LA:346:TRP:HH2	4:LA:435:VAL:HA	1.75	0.50
4:LC:135:PHE:CE2	4:LC:164:LYS:HD2	2.46	0.50
4:LC:263:PRO:HB2	4:LC:264:ARG:NH1	2.26	0.50
4:LC:319:TYR:N	4:LC:354:GLY:O	2.41	0.50
3:LF:150:LEU:O	3:LF:153:SER:OG	2.24	0.50
3:LH:21:TRP:CZ2	3:LH:63:ALA:HB2	2.45	0.50
3:LH:309:ARG:HE	3:LH:426:GLN:HE21	1.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:LK:261:PRO:HA	3:LL:394:PHE:CE1	2.46	0.50
3:LL:176:SER:O	3:LL:178:THR:N	2.44	0.50
3:LL:222:TYR:HA	3:LL:225:LEU:HD13	1.93	0.50
3:LL:305:PRO:HA	3:LL:373:ALA:HB2	1.93	0.50
24:M2:43:PRO:HA	24:M2:100:GLU:HA	1.94	0.50
3:MB:20:PHE:CZ	3:MB:24:ILE:HD11	2.45	0.50
4:MC:320:ARG:HG2	4:MC:358:GLN:O	2.12	0.50
3:MD:77:ARG:O	3:MD:77:ARG:NH1	2.41	0.50
3:MD:173:PRO:O	3:MD:380:ARG:NH2	2.44	0.50
3:MD:249:ASP:O	3:MD:252:LYS:HB3	2.11	0.50
4:ME:256:GLN:O	4:ME:260:VAL:HG12	2.11	0.50
3:MF:285:THR:O	3:MF:288:GLU:HG3	2.11	0.50
4:MI:15:GLN:OE1	4:MI:15:GLN:N	2.36	0.50
3:MJ:194:GLU:OE1	3:MJ:195:ASN:ND2	2.44	0.50
4:MK:272:TYR:CZ	4:MK:274:PRO:HG2	2.45	0.50
3:ML:2:ARG:HB3	3:ML:131:GLN:NE2	2.26	0.50
26:N4:69:ASP:HA	26:N4:72:ASP:HB2	1.92	0.50
3:NB:28:HIS:ND1	3:NB:43:GLN:HB2	2.25	0.50
4:NE:51:THR:HG23	4:NE:52:PHE:CD2	2.46	0.50
3:NF:152:ILE:O	3:NF:156:ARG:HG2	2.11	0.50
3:NH:2:ARG:HB3	3:NH:131:GLN:NE2	2.26	0.50
3:NH:258:VAL:HG22	3:NH:266:PHE:HZ	1.77	0.50
4:NK:265:ILE:HD12	4:NK:432:TYR:CE1	2.45	0.50
3:OB:47:ILE:HG12	3:OB:59:TYR:CD2	2.46	0.50
3:OB:324:LYS:HD3	4:OC:210:TYR:CE1	2.47	0.50
4:OC:173:PRO:HB2	4:OC:390:ARG:HH22	1.75	0.50
4:OC:224:TYR:HA	4:OC:227:LEU:HB2	1.93	0.50
3:OD:379:LYS:HA	3:OD:379:LYS:HE2	1.94	0.50
3:OF:285:THR:O	3:OF:288:GLU:HG3	2.10	0.50
3:OH:3:GLU:O	3:OH:130:LEU:HD12	2.11	0.50
4:OI:5:ILE:HD13	4:OI:64:ARG:HB3	1.91	0.50
4:OI:329:ASN:OD1	4:OI:330:ALA:N	2.44	0.50
3:OJ:235:GLY:O	3:OJ:238:THR:OG1	2.24	0.50
4:OK:50:ASN:OD1	4:OK:51:THR:N	2.44	0.50
29:P1:387:LYS:O	29:P1:403:PRO:HD3	2.11	0.50
4:PG:84:ARG:NH2	37:YJ:124:HIS:O	2.44	0.50
4:PG:161:TYR:O	4:PG:166:LYS:NZ	2.43	0.50
3:PH:2:ARG:HB3	3:PH:131:GLN:NE2	2.25	0.50
3:PH:378:PHE:CD1	3:PH:419:VAL:HG22	2.46	0.50
3:PL:118:ASP:OD1	3:PL:121:ARG:NH1	2.44	0.50
3:PL:173:PRO:O	3:PL:380:ARG:NH2	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:Q1:1463:LYS:HD3	30:Q1:1507:TYR:CD1	2.46	0.50
3:QB:48:ASN:HA	3:QB:51:TYR:O	2.11	0.50
3:QD:58:LYS:HE2	3:RD:281:TYR:HE1	1.75	0.50
3:QD:139:LEU:N	3:QD:168:SER:OG	2.44	0.50
3:QD:189:VAL:HA	3:QD:192:LEU:HB2	1.93	0.50
3:QF:3:GLU:HG2	3:QF:130:LEU:HD23	1.93	0.50
3:QF:19:LYS:NZ	3:QF:223:GLY:O	2.43	0.50
4:QG:1:MET:N	4:QG:130:THR:OG1	2.43	0.50
4:QG:214:ARG:NH1	4:QG:215:ARG:HG3	2.26	0.50
4:QI:84:ARG:HA	4:QI:87:PHE:HD2	1.76	0.50
3:QL:54:ALA:HB3	3:QL:58:LYS:HB3	1.93	0.50
3:QL:77:ARG:HD3	3:QL:90:PHE:HE2	1.76	0.50
4:QM:208:ALA:N	4:QM:304:LYS:HZ1	2.09	0.50
4:RC:406:HIS:HA	4:RC:409:VAL:HG22	1.92	0.50
3:RF:2:ARG:HB3	3:RF:131:GLN:NE2	2.25	0.50
3:RJ:217:LEU:HD11	3:RJ:220:PRO:HB3	1.93	0.50
3:RJ:309:ARG:H	3:RJ:372:THR:HG1	1.52	0.50
3:RL:250:LEU:HD13	3:RL:253:LEU:HD12	1.93	0.50
3:RL:306:ARG:O	3:RL:306:ARG:NE	2.43	0.50
3:SB:252:LYS:O	3:SB:256:ASN:ND2	2.44	0.50
4:SC:9:VAL:HA	4:SC:68:VAL:HG23	1.93	0.50
3:SD:272:PRO:HA	3:SD:292:GLN:OE1	2.11	0.50
3:SD:292:GLN:O	3:SD:298:ASN:ND2	2.33	0.50
4:SG:125:LEU:HD13	4:SG:128:LEU:HD21	1.92	0.50
4:SG:427:ALA:HA	4:SG:430:LYS:HG2	1.93	0.50
3:SH:282:ARG:HE	3:SH:288:GLU:CD	2.19	0.50
4:SI:138:PHE:HZ	4:SI:235:VAL:HG21	1.76	0.50
4:SI:363:VAL:H	4:SI:368:LEU:HD21	1.77	0.50
4:SK:70:LEU:HB2	4:SK:145:THR:HG21	1.94	0.50
32:T:332:GLY:HA3	32:T:335:GLU:OE1	2.11	0.50
3:TB:12:CYS:HA	39:TB:501:GTP:N2	2.27	0.50
4:TC:271:THR:HB	4:TC:377:MET:HB3	1.92	0.50
3:TD:176:SER:O	3:TD:178:THR:N	2.43	0.50
4:TG:6:SER:HA	4:TG:136:LEU:HB3	1.93	0.50
4:TI:265:ILE:HD12	4:TI:432:TYR:CE1	2.46	0.50
3:TJ:2:ARG:HA	3:TJ:129:CYS:O	2.10	0.50
4:TM:5:ILE:HD13	4:TM:64:ARG:HB3	1.92	0.50
3:TN:268:PRO:HD2	3:TN:301:ALA:HB2	1.93	0.50
4:UA:390:ARG:HA	4:UA:393:HIS:CD2	2.46	0.50
4:UC:6:SER:HB3	4:UC:65:ALA:HB2	1.93	0.50
4:UC:271:THR:HB	4:UC:377:MET:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UC:433:GLU:O	4:UC:437:VAL:N	2.35	0.50
4:UI:2:ARG:NH2	4:UI:250:VAL:O	2.45	0.50
3:UJ:380:ARG:O	3:UJ:384:GLN:HG2	2.11	0.50
4:UK:329:ASN:OD1	4:UK:330:ALA:N	2.45	0.50
4:VA:229:ARG:HE	4:VA:368:LEU:HD22	1.76	0.50
4:VA:264:ARG:O	4:VA:266:HIS:ND1	2.44	0.50
4:VG:213:CYS:O	4:VG:218:ASP:N	2.44	0.50
3:VH:70:PRO:HA	3:VH:73:MET:HE3	1.93	0.50
3:VH:222:TYR:HA	3:VH:225:LEU:HD13	1.93	0.50
4:VI:10:GLY:O	4:VI:14:VAL:HG13	2.10	0.50
3:VJ:318:ARG:C	3:VJ:321:MET:HE1	2.35	0.50
4:VK:54:SER:N	4:VK:62:VAL:O	2.44	0.50
4:VK:329:ASN:HA	4:VK:332:ILE:HG12	1.93	0.50
3:VL:218:THR:OG1	3:VL:219:THR:N	2.43	0.50
33:W:237:ARG:HD2	33:W:238:GLU:N	2.26	0.50
4:WA:208:ALA:N	4:WA:304:LYS:HZ1	2.09	0.50
3:WB:52:ASN:OD1	3:WB:62:ARG:NH1	2.44	0.50
3:WB:83:GLN:O	3:WB:86:ARG:NH2	2.44	0.50
3:WD:61:PRO:HD3	3:WD:84:ILE:HG13	1.93	0.50
3:WD:406:MET:O	3:WD:409:THR:OG1	2.18	0.50
3:WF:250:LEU:HD13	3:WF:253:LEU:HD12	1.92	0.50
3:WH:256:ASN:HB3	3:WH:350:LYS:HG3	1.93	0.50
3:WH:350:LYS:HE3	4:WI:181:VAL:H	1.76	0.50
4:WI:172:TYR:HD1	4:WI:203:MET:HE2	1.76	0.50
3:WL:323:MET:SD	3:WL:323:MET:N	2.79	0.50
34:XB:69:LEU:HG	34:XB:153:ARG:HA	1.92	0.50
34:XB:106:SER:HB3	34:XB:108:TYR:CE2	2.46	0.50
34:XB:113:ARG:HE	34:XB:114:VAL:H	1.59	0.50
34:XF:72:LYS:NZ	35:XM:62:ARG:HD2	2.27	0.50
34:XG:81:LYS:HB2	34:XG:129:TRP:CD2	2.46	0.50
35:XI:182:ASN:HB2	35:XI:231:MET:SD	2.51	0.50
37:YF:93:THR:HB	37:YF:151:TRP:CD1	2.46	0.50
37:YL:140:LEU:HA	37:YL:143:ILE:HD12	1.92	0.50
37:YQ:8:LEU:HA	37:YQ:11:ILE:HD12	1.94	0.50
2:A2:102:LEU:HD21	2:A2:150:LEU:HB3	1.93	0.50
4:AG:263:PRO:HD3	3:AH:396:HIS:CD2	2.46	0.50
4:AI:186:ASN:OD1	4:AI:187:SER:N	2.44	0.50
3:AJ:380:ARG:O	3:AJ:384:GLN:HG2	2.11	0.50
3:AL:118:ASP:OD1	3:AL:121:ARG:NH1	2.44	0.50
4:AM:287:SER:OG	4:AM:290:GLU:OE1	2.24	0.50
1:B:321:GLN:HA	3:HL:359:ARG:HH22	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B2:117:LEU:O	5:B2:121:GLU:HG2	2.12	0.50
5:B2:176:HIS:CD2	10:E3:126:GLN:HE22	2.29	0.50
5:B3:176:HIS:CA	5:B3:179:LYS:HZ3	2.14	0.50
5:B4:202:LYS:HD2	5:B4:205:PRO:CB	2.41	0.50
5:B5:12:TYR:HE1	5:B6:128:VAL:H	1.58	0.50
5:B6:201:LEU:HD13	5:B7:315:HIS:ND1	2.27	0.50
3:BB:77:ARG:O	3:BB:77:ARG:NH1	2.37	0.50
3:BD:19:LYS:NZ	3:BD:223:GLY:O	2.44	0.50
3:BD:139:LEU:N	3:BD:168:SER:OG	2.45	0.50
3:BD:415:MET:O	3:BD:419:VAL:HG23	2.12	0.50
3:BF:52:ASN:CG	3:BF:62:ARG:HD3	2.37	0.50
3:BL:12:CYS:SG	3:BL:13:GLY:N	2.84	0.50
6:C:361:ARG:NH1	6:C:371:ASN:O	2.44	0.50
7:C3:309:LEU:HD23	7:C3:312:GLN:NE2	2.25	0.50
7:C4:404:THR:OG1	7:C4:405:ARG:NH1	2.44	0.50
7:C7:305:ASP:OD2	10:E2:88:ARG:NE	2.42	0.50
7:C8:179:ARG:O	7:C8:183:ARG:HG2	2.11	0.50
3:CB:344:TRP:O	4:CC:398:MET:HE1	2.11	0.50
3:CB:378:PHE:CD1	3:CB:419:VAL:HG22	2.47	0.50
3:CD:230:SER:HA	3:CD:233:MET:HG2	1.93	0.50
3:CD:379:LYS:O	3:CD:382:SER:OG	2.18	0.50
4:CG:320:ARG:HG2	4:CG:358:GLN:O	2.12	0.50
4:CI:14:VAL:HA	4:CI:67:PHE:CE1	2.46	0.50
4:CI:324:VAL:HG21	3:CJ:219:THR:HG22	1.92	0.50
4:CM:68:VAL:HA	4:CM:93:ILE:HB	1.94	0.50
4:CM:187:SER:O	4:CM:190:THR:OG1	2.23	0.50
4:CM:286:LEU:HD11	4:CM:373:ARG:H	1.76	0.50
7:Cb:447:SER:O	7:Cb:451:THR:HG23	2.11	0.50
6:D:264:LYS:N	6:D:372:ALA:O	2.42	0.50
8:D1:48:THR:OG1	8:D1:50:LYS:NZ	2.43	0.50
8:D4:102:LYS:HD3	8:D5:376:ARG:HH11	1.75	0.50
8:D4:141:ALA:O	8:D4:145:THR:HG23	2.12	0.50
8:D7:319:GLN:HB3	8:D7:323:ARG:HH12	1.77	0.50
8:D8:363:ARG:NE	8:D8:368:LEU:HA	2.27	0.50
3:DB:114:ASP:N	3:DB:114:ASP:OD1	2.44	0.50
3:DB:226:ASN:HA	3:DB:229:VAL:HG22	1.94	0.50
4:DC:269:LEU:N	4:DC:379:SER:O	2.35	0.50
4:DC:392:ASP:OD1	4:DC:393:HIS:N	2.44	0.50
3:DD:420:SER:O	3:DD:423:GLN:N	2.43	0.50
4:DE:165:SER:C	4:DE:166:LYS:HD2	2.37	0.50
3:DF:302:ALA:HB1	3:DF:377:LEU:HD21	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DJ:148:GLY:O	3:DJ:152:ILE:HG12	2.11	0.50
3:DJ:285:THR:O	3:DJ:288:GLU:HG3	2.10	0.50
4:DK:122:ILE:HD13	4:DK:157:LEU:HD11	1.94	0.50
10:E2:132:PRO:O	10:E2:133:ARG:HG2	2.12	0.50
10:E3:3:ASN:HA	10:E3:6:ARG:NH2	2.25	0.50
10:E3:31:TYR:CZ	10:E3:34:LEU:HD13	2.47	0.50
4:EA:76:ASP:OD1	4:EA:79:ARG:NH1	2.44	0.50
3:ED:378:PHE:CD1	3:ED:419:VAL:HG22	2.46	0.50
3:EF:258:VAL:HB	4:EG:407:TRP:CZ2	2.46	0.50
3:EH:12:CYS:SG	39:EH:501:GTP:H5'	2.51	0.50
4:EI:72:PRO:HA	4:EI:75:VAL:HG12	1.94	0.50
3:EJ:378:PHE:HA	3:EJ:381:ILE:HG12	1.92	0.50
11:F1:419:GLU:OE2	11:F2:134:MET:HG2	2.10	0.50
11:F2:315:ILE:HG23	11:F2:318:ARG:NH2	2.27	0.50
11:F2:364:ILE:O	11:F2:368:ILE:HG23	2.11	0.50
11:F3:210:ASN:H	11:F3:346:ARG:HH21	1.59	0.50
11:F3:356:LYS:HE2	11:F3:360:GLN:HE22	1.76	0.50
11:F5:184:VAL:O	11:F5:188:LEU:HG	2.10	0.50
11:F6:351:THR:HG21	11:Fa:476:PHE:HZ	1.76	0.50
11:F7:91:THR:HG22	11:F8:208:HIS:HE1	1.76	0.50
11:F7:425:ASP:O	11:F7:428:GLN:HG3	2.10	0.50
4:FA:192:HIS:CE1	4:FA:193:THR:HG23	2.46	0.50
3:FD:269:GLY:O	3:FD:367:PHE:N	2.40	0.50
4:FE:282:TYR:CD1	14:G5:710:PRO:HG3	2.46	0.50
3:FJ:229:VAL:C	3:FJ:233:MET:HE3	2.37	0.50
4:FK:30:ILE:HG13	4:FK:53:PHE:HE2	1.76	0.50
4:FK:104:ALA:O	4:FK:108:TYR:N	2.44	0.50
4:FK:260:VAL:HG23	4:FK:265:ILE:O	2.11	0.50
3:FL:269:GLY:N	3:FL:367:PHE:O	2.44	0.50
3:FL:330:MET:HG3	3:FL:349:VAL:HG11	1.93	0.50
11:Fa:434:LEU:O	11:Fa:437:THR:HG22	2.10	0.50
11:Fb:218:GLU:OE2	11:Fb:335:GLN:HB3	2.11	0.50
11:Fb:415:ARG:HH12	11:Fc:138:THR:N	2.10	0.50
11:Fj:340:ASN:HA	11:Fj:343:PHE:CD2	2.47	0.50
11:Fm:371:ALA:O	11:Fm:375:ILE:HD12	2.11	0.50
14:G4:404:ARG:HD2	14:G4:414:HIS:CB	2.39	0.50
14:G4:635:PHE:CD2	14:G4:698:ASN:HA	2.46	0.50
14:G5:142:ASN:HD21	14:G5:145:GLN:HE22	1.59	0.50
14:G5:404:ARG:HD2	14:G5:414:HIS:HB3	1.92	0.50
14:G6:487:LYS:HA	14:G6:501:TYR:HD1	1.76	0.50
3:GD:77:ARG:O	3:GD:77:ARG:NH1	2.34	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GF:77:ARG:O	3:GF:77:ARG:NH1	2.39	0.50
3:GF:158:GLU:OE1	3:GF:158:GLU:N	2.39	0.50
3:GF:350:LYS:HE3	4:GG:180:ALA:HA	1.92	0.50
4:GI:87:PHE:HB3	4:GI:92:LEU:HD11	1.93	0.50
4:GI:336:LYS:HZ2	3:GJ:174:LYS:HB3	1.76	0.50
4:GK:138:PHE:CD1	4:GK:169:PHE:HB2	2.45	0.50
3:GL:114:ASP:OD1	3:GL:115:SER:N	2.44	0.50
3:GL:187:LEU:HD11	3:GL:408:PHE:CE1	2.45	0.50
4:HC:316:CYS:N	4:HC:378:LEU:O	2.27	0.50
4:HE:26:LEU:HD13	4:HE:364:PRO:HD2	1.92	0.50
4:HG:214:ARG:NH1	4:HG:215:ARG:HG3	2.26	0.50
3:HH:11:GLN:HG3	39:HH:501:GTP:PA	2.51	0.50
3:HH:88:ASP:OD1	3:HH:89:ASN:N	2.45	0.50
4:HI:271:THR:HB	4:HI:377:MET:HE2	1.93	0.50
4:HK:115:VAL:HG21	4:HK:156:ARG:HH21	1.75	0.50
3:IB:406:MET:O	3:IB:409:THR:OG1	2.22	0.50
4:IC:91:GLN:HG3	4:IC:121:ARG:HH21	1.76	0.50
3:ID:214:THR:HG21	3:ID:273:LEU:HB3	1.93	0.50
4:IE:220:GLU:O	4:IE:221:ARG:NE	2.40	0.50
4:IE:419:SER:HA	4:IE:422:ARG:HH21	1.77	0.50
4:II:287:SER:N	4:II:290:GLU:OE2	2.45	0.50
3:IJ:19:LYS:O	3:IJ:22:GLU:HG3	2.12	0.50
3:IL:48:ASN:HA	3:IL:51:TYR:O	2.11	0.50
4:IM:70:LEU:HD13	4:IM:95:GLY:HA3	1.94	0.50
4:IM:273:ALA:HB2	4:IM:295:CYS:HB3	1.93	0.50
4:JA:51:THR:HG23	4:JA:52:PHE:HD2	1.76	0.50
3:JB:47:ILE:HG13	3:JB:51:TYR:HB2	1.93	0.50
4:JC:2:ARG:HA	4:JC:133:GLN:NE2	2.26	0.50
3:JH:267:MET:O	3:JH:369:GLY:N	2.32	0.50
3:JJ:7:LEU:HB2	3:JJ:135:LEU:HG	1.93	0.50
3:JJ:81:PHE:O	3:JJ:84:ILE:HG22	2.11	0.50
3:JJ:132:GLY:HA3	3:JJ:163:ILE:H	1.75	0.50
4:JK:324:VAL:HG11	3:JL:219:THR:HB	1.92	0.50
3:JL:54:ALA:HB3	3:JL:58:LYS:HE2	1.94	0.50
3:JL:68:LEU:HD11	3:JL:108:GLU:HG3	1.94	0.50
3:JL:100:ASN:HB3	3:JL:103:LYS:HB2	1.93	0.50
21:K2:46:MET:HE1	21:K2:106:TYR:HB3	1.93	0.50
21:K2:206:LEU:O	21:K2:209:MET:HG3	2.11	0.50
21:K2:265:VAL:HG22	21:K2:271:PRO:HB3	1.93	0.50
21:K3:148:ASN:HA	21:K3:151:LEU:HB2	1.93	0.50
3:KB:114:ASP:OD1	3:KB:115:SER:N	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:KC:234:ILE:O	4:KC:237:SER:OG	2.26	0.50
4:KE:138:PHE:CE1	4:KE:169:PHE:HD2	2.30	0.50
4:KE:398:MET:O	4:KE:402:ARG:N	2.44	0.50
3:KF:52:ASN:OD1	3:KF:62:ARG:NH1	2.45	0.50
3:KH:130:LEU:HD13	3:KH:133:PHE:CE1	2.47	0.50
3:KH:176:SER:O	3:KH:178:THR:N	2.44	0.50
4:KI:271:THR:HB	4:KI:377:MET:HE3	1.93	0.50
3:KJ:61:PRO:HD3	3:KJ:84:ILE:HG13	1.93	0.50
22:L2:164:ASP:O	22:L2:168:ALA:HB3	2.12	0.50
3:LB:91:VAL:HG11	3:LB:116:VAL:HG12	1.92	0.50
3:LB:357:PRO:O	3:LB:359:ARG:NH1	2.41	0.50
3:LF:324:LYS:HD3	4:LG:210:TYR:CE1	2.46	0.50
3:LH:2:ARG:HA	3:LH:129:CYS:O	2.12	0.50
3:LH:187:LEU:HD21	3:LH:408:PHE:CE1	2.46	0.50
4:LI:5:ILE:HD13	4:LI:64:ARG:HB3	1.92	0.50
4:LI:50:ASN:O	4:LI:64:ARG:NH1	2.44	0.50
4:LI:417:GLU:HA	4:LI:420:GLU:OE1	2.11	0.50
4:LK:226:ASN:ND2	4:LK:367:ASP:OD2	2.40	0.50
4:MG:66:VAL:HG22	4:MG:91:GLN:HG2	1.94	0.50
3:MH:12:CYS:SG	3:MH:13:GLY:N	2.84	0.50
4:MK:53:PHE:O	4:MK:64:ARG:NH1	2.44	0.50
4:MK:113:GLU:OE1	4:MK:113:GLU:N	2.43	0.50
4:MK:405:VAL:O	4:MK:409:VAL:HG22	2.10	0.50
3:ML:14:ASN:ND2	3:ML:67:ASP:OD2	2.44	0.50
3:ML:246:LEU:HB3	3:ML:353:VAL:O	2.12	0.50
26:N4:77:THR:HG23	26:N4:79:TYR:H	1.75	0.50
3:NB:12:CYS:SG	3:NB:13:GLY:N	2.85	0.50
3:ND:324:LYS:HD2	4:NE:221:ARG:HA	1.94	0.50
4:NE:115:VAL:HA	4:NE:118:VAL:HG22	1.94	0.50
4:NG:188:ILE:HG22	4:NG:421:ALA:HB1	1.93	0.50
4:NI:115:VAL:HG22	4:NI:119:LEU:HG	1.94	0.50
3:NJ:415:MET:O	3:NJ:419:VAL:HG23	2.12	0.50
4:NK:10:GLY:O	4:NK:14:VAL:HG13	2.12	0.50
4:NK:141:PHE:HB2	4:NK:173:PRO:HD3	1.93	0.50
3:OF:322:SER:OG	3:OF:323:MET:SD	2.69	0.50
4:OG:208:ALA:H	4:OG:304:LYS:NZ	2.10	0.50
3:OJ:2:ARG:HA	3:OJ:129:CYS:O	2.12	0.50
4:OK:254:GLU:O	4:OK:258:ASN:ND2	2.26	0.50
29:P1:470:LYS:HE2	29:P1:514:GLU:HB3	1.92	0.50
29:P1:562:THR:H	29:P1:572:TRP:HZ3	1.59	0.50
4:PC:154:MET:HE2	4:PC:194:THR:HG22	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PH:269:GLY:N	3:PH:367:PHE:O	2.45	0.50
3:PH:286:VAL:HG21	3:PH:325:GLU:HG3	1.94	0.50
3:PJ:15:GLN:NE2	39:PJ:501:GTP:C2	2.72	0.50
3:PL:423:GLN:O	3:PL:427:ASP:N	2.44	0.50
30:Q1:1374:ILE:HD12	30:Q1:1379:SER:HA	1.93	0.50
30:Q2:1338:GLY:HA3	30:Q2:1342:GLU:HB3	1.93	0.50
3:QD:12:CYS:SG	3:QD:13:GLY:N	2.84	0.50
4:QK:230:LEU:O	4:QK:234:ILE:HG12	2.10	0.50
4:QK:371:VAL:HG11	4:QK:374:ALA:HB2	1.92	0.50
3:QL:130:LEU:HB2	3:QL:162:ARG:NH1	2.26	0.50
3:RB:406:MET:O	3:RB:409:THR:OG1	2.19	0.50
3:RD:132:GLY:HA3	3:RD:163:ILE:H	1.76	0.50
3:RF:81:PHE:O	3:RF:84:ILE:HG22	2.11	0.50
4:RG:285:GLN:HE22	4:RG:287:SER:HB3	1.76	0.50
4:RI:208:ALA:N	4:RI:304:LYS:HZ1	2.09	0.50
4:RM:50:ASN:OD1	4:RM:51:THR:N	2.45	0.50
3:SB:318:ARG:HA	3:SB:354:CYS:HB3	1.92	0.50
4:SC:207:GLU:HB2	4:SC:304:LYS:NZ	2.26	0.50
4:SE:7:ILE:N	4:SE:136:LEU:O	2.32	0.50
4:TC:279:GLU:O	4:TC:282:TYR:HB3	2.12	0.50
4:TE:22:GLU:O	4:TE:26:LEU:HD23	2.11	0.50
3:TF:131:GLN:HB3	3:TF:163:ILE:HD12	1.93	0.50
3:TH:246:LEU:HB2	3:TH:352:ALA:HB1	1.93	0.50
4:TI:172:TYR:HB2	4:TI:203:MET:HB3	1.93	0.50
4:TI:260:VAL:O	3:TJ:397:TRP:HH2	1.93	0.50
4:TI:260:VAL:HG23	4:TI:265:ILE:O	2.11	0.50
4:TK:160:ASP:OD1	4:TK:161:TYR:N	2.45	0.50
3:TL:113:VAL:HB	3:TL:154:LYS:HE2	1.93	0.50
4:TM:70:LEU:HA	4:TM:95:GLY:HA3	1.92	0.50
4:TM:208:ALA:N	4:TM:304:LYS:HZ1	2.08	0.50
3:TN:250:LEU:HD13	3:TN:253:LEU:HD12	1.92	0.50
33:U:291:ASP:O	33:U:294:GLN:NE2	2.44	0.50
4:UA:104:ALA:HB1	4:UA:413:MET:HE3	1.93	0.50
4:UA:272:TYR:CZ	4:UA:274:PRO:HG2	2.46	0.50
3:UB:173:PRO:O	3:UB:380:ARG:NH2	2.44	0.50
4:UC:139:HIS:CD2	4:UC:170:ALA:HB2	2.47	0.50
3:UF:374:ILE:HA	3:UF:377:LEU:HD13	1.92	0.50
3:UH:6:HIS:HD2	3:UH:134:GLN:HG2	1.76	0.50
4:UI:113:GLU:OE1	4:UI:113:GLU:N	2.44	0.50
4:UI:319:TYR:HB2	4:UI:355:ILE:HD13	1.92	0.50
3:UL:176:SER:O	3:UL:178:THR:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:VA:161:TYR:HB3	4:VA:164:LYS:NZ	2.27	0.50
4:VA:386:GLU:HA	4:VA:389:ALA:HB3	1.93	0.50
3:VB:317:PHE:HB3	3:VB:321:MET:HE3	1.93	0.50
4:VC:149:PHE:CE2	4:VC:153:LEU:HD11	2.46	0.50
4:VC:207:GLU:HB2	4:VC:304:LYS:NZ	2.23	0.50
3:VD:250:LEU:O	3:VD:254:ALA:N	2.27	0.50
3:VD:374:ILE:HG23	3:VD:377:LEU:HD12	1.94	0.50
4:VE:122:ILE:O	4:VE:126:ALA:N	2.43	0.50
4:VE:392:ASP:OD1	4:VE:393:HIS:N	2.44	0.50
3:VF:268:PRO:HD2	3:VF:301:ALA:HB2	1.94	0.50
3:VJ:322:SER:N	3:VJ:325:GLU:OE2	2.44	0.50
3:VJ:378:PHE:CD1	3:VJ:419:VAL:HG22	2.45	0.50
3:VL:12:CYS:SG	39:VL:501:GTP:H5'	2.51	0.50
3:WB:52:ASN:CG	3:WB:62:ARG:HD3	2.36	0.50
3:WD:375:GLN:HA	3:WD:378:PHE:CZ	2.46	0.50
4:WE:192:HIS:CE1	4:WE:193:THR:HG23	2.47	0.50
4:WE:315:CYS:N	4:WE:350:GLY:O	2.43	0.50
3:WF:182:PRO:HA	3:WF:381:ILE:HD11	1.94	0.50
4:WG:6:SER:HA	4:WG:136:LEU:HB2	1.94	0.50
4:WG:50:ASN:OD1	4:WG:51:THR:N	2.44	0.50
4:WG:216:ASN:HD21	4:WG:275:VAL:HG23	1.75	0.50
3:WL:273:LEU:H	3:WL:292:GLN:HE22	1.58	0.50
34:XB:88:THR:OG1	34:XB:105:ALA:O	2.17	0.50
34:XC:84:LYS:HZ3	35:XI:241:ASN:HB3	1.77	0.50
34:XG:174:GLU:HA	34:XG:177:LEU:HD12	1.94	0.50
35:XH:209:ILE:O	35:XH:212:THR:OG1	2.26	0.50
35:XI:89:TYR:CE2	35:XI:122:GLY:HA3	2.46	0.50
37:YD:139:SER:O	37:YD:143:ILE:HG12	2.10	0.50
37:YF:121:VAL:HG12	37:YF:138:VAL:HB	1.93	0.50
37:YG:15:TYR:O	37:YG:19:GLN:N	2.44	0.50
37:YQ:8:LEU:HD11	37:YQ:145:LEU:HG	1.93	0.50
37:YU:5:LYS:HE2	37:YU:8:LEU:HD23	1.91	0.50
37:YW:22:GLN:HG3	37:YW:121:VAL:HG13	1.92	0.50
36:Z:449:ASP:O	36:Z:453:LEU:HG	2.11	0.50
2:A3:70:VAL:HA	2:A3:73:TRP:HD1	1.76	0.50
3:AD:406:MET:O	3:AD:409:THR:OG1	2.24	0.50
4:AE:104:ALA:HA	4:AE:107:HIS:HB3	1.92	0.50
3:AF:25:SER:O	3:AF:29:GLY:N	2.45	0.50
3:AH:206:ALA:O	3:AH:210:ILE:HG12	2.12	0.50
4:AI:386:GLU:HA	4:AI:389:ALA:HB3	1.93	0.50
3:AJ:234:SER:O	3:AJ:238:THR:HG23	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AK:168:GLU:HB2	4:AK:201:ALA:HA	1.92	0.50
4:AM:88:HIS:HB3	4:AM:91:GLN:HB2	1.92	0.50
5:B1:338:LEU:HA	5:B1:341:GLU:OE1	2.11	0.50
5:B4:89:ILE:HG21	10:E1:118:PHE:CE2	2.46	0.50
5:B6:92:LEU:HD21	5:B6:236:SER:HB2	1.92	0.50
5:B8:86:ASP:HA	5:B8:169:ARG:HH21	1.75	0.50
4:BG:46:ASP:OD1	4:BG:50:ASN:ND2	2.40	0.50
3:BH:183:TYR:CD1	3:BH:388:MET:HE3	2.46	0.50
4:BK:102:ASN:HD22	4:BK:105:ARG:HG3	1.76	0.50
4:BM:11:GLN:O	4:BM:14:VAL:HG22	2.10	0.50
4:BM:89:PRO:HD2	4:CM:280:LYS:NZ	2.26	0.50
4:BM:417:GLU:OE1	4:BM:417:GLU:N	2.28	0.50
6:C:300:VAL:O	6:C:304:TYR:HB2	2.11	0.50
7:C2:432:GLN:HA	7:C2:435:GLN:OE1	2.11	0.50
7:C4:385:ALA:O	7:C4:389:LYS:HG3	2.11	0.50
7:C7:361:ILE:O	7:C7:365:LEU:HD23	2.12	0.50
3:CB:150:LEU:C	3:CB:154:LYS:HZ3	2.20	0.50
4:CG:178:SER:OG	4:CG:180:ALA:O	2.29	0.50
7:Cb:126:ARG:HD2	7:Cb:130:ASP:OD2	2.12	0.50
7:Cb:399:ARG:HE	7:Cc:274:LEU:HD13	1.76	0.50
7:Cb:467:TYR:CE2	8:D8:250:SER:HB3	2.46	0.50
6:D:297:ARG:NH1	6:D:318:VAL:HG12	2.27	0.50
8:D2:157:GLN:O	8:D2:161:ARG:HG2	2.11	0.50
8:D3:376:ARG:HG3	8:D3:377:LEU:N	2.25	0.50
8:D4:365:ASN:OD1	8:D4:366:VAL:HG23	2.11	0.50
8:D8:419:LYS:NZ	8:D9:56:TRP:HE1	2.10	0.50
4:DA:67:PHE:O	4:DA:93:ILE:N	2.45	0.50
4:DC:224:TYR:O	4:DC:228:ASN:N	2.32	0.50
4:DG:386:GLU:O	4:DG:390:ARG:N	2.41	0.50
3:DH:83:GLN:O	3:DH:86:ARG:NH2	2.44	0.50
3:DH:285:THR:O	3:DH:288:GLU:HG3	2.11	0.50
4:DI:88:HIS:HB3	4:DI:91:GLN:CG	2.41	0.50
4:DI:216:ASN:ND2	4:DI:275:VAL:O	2.45	0.50
4:DK:6:SER:HA	4:DK:136:LEU:HB2	1.92	0.50
4:DK:154:MET:HE3	4:DK:194:THR:HG22	1.93	0.50
8:Da:90:ALA:O	8:Da:94:ARG:NE	2.37	0.50
4:EA:113:GLU:OE1	4:EA:113:GLU:N	2.41	0.50
4:EA:186:ASN:HA	4:EA:189:LEU:HD12	1.94	0.50
4:EA:187:SER:O	4:EA:190:THR:OG1	2.25	0.50
3:EB:173:PRO:HD3	3:EB:203:ASP:OD1	2.11	0.50
4:EC:68:VAL:HG11	4:EC:149:PHE:CE2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EC:411:GLU:OE2	4:EC:413:MET:HE1	2.11	0.50
3:ED:91:VAL:HG11	3:ED:116:VAL:HG12	1.94	0.50
4:EE:51:THR:HG23	4:EE:52:PHE:CD2	2.46	0.50
3:EF:8:GLN:OE1	3:EF:8:GLN:N	2.44	0.50
4:EG:166:LYS:N	4:EG:199:ASP:OD2	2.44	0.50
4:EG:423:GLU:O	4:EG:427:ALA:N	2.39	0.50
3:EH:11:GLN:HG3	39:EH:501:GTP:PA	2.51	0.50
3:EH:324:LYS:HD2	4:EI:221:ARG:HA	1.94	0.50
4:EI:139:HIS:HE1	4:EI:168:GLU:HB3	1.77	0.50
4:EI:331:ALA:O	4:EI:334:THR:OG1	2.24	0.50
4:EK:53:PHE:HB3	4:EK:61:HIS:HB3	1.94	0.50
4:EK:396:ASP:OD1	4:EK:397:LEU:N	2.45	0.50
11:F1:442:GLN:HB3	11:F5:281:HIS:ND1	2.26	0.50
11:F2:292:ILE:HB	11:F2:295:THR:HG23	1.92	0.50
11:F5:214:ASN:O	11:F5:217:ARG:HD3	2.10	0.50
11:F6:111:LEU:HB3	11:F6:115:ARG:HH12	1.75	0.50
11:F6:139:SER:HB2	11:F6:268:PHE:HE1	1.76	0.50
11:F9:206:LEU:HD23	11:Fa:89:ARG:HH11	1.76	0.50
11:F9:399:ARG:NH1	11:Fa:264:ASP:HA	2.27	0.50
3:FB:295:ASP:HB2	3:FB:298:ASN:HB2	1.92	0.50
3:FB:305:PRO:HB2	3:FB:310:TYR:HE1	1.76	0.50
3:FD:47:ILE:HG13	3:FD:51:TYR:HB2	1.92	0.50
3:FF:347:ASN:HB3	4:FG:178:SER:HB3	1.94	0.50
4:FG:25:CYS:HB2	4:FG:30:ILE:HB	1.93	0.50
4:FG:272:TYR:CZ	4:FG:274:PRO:HG2	2.46	0.50
3:FH:120:VAL:O	3:FH:124:ALA:N	2.36	0.50
4:FK:166:LYS:N	4:FK:199:ASP:OD2	2.44	0.50
3:FL:11:GLN:HG3	39:FL:501:GTP:PA	2.51	0.50
11:Fa:213:LYS:HA	11:Fa:216:ILE:HD12	1.94	0.50
11:Fa:251:GLU:HA	11:Fa:254:ILE:HG22	1.93	0.50
11:Fb:412:PRO:HD2	11:Fc:145:ARG:CZ	2.42	0.50
11:Fc:336:PHE:CE1	11:Fc:476:PHE:HB2	2.46	0.50
11:Fk:111:LEU:O	11:Fk:115:ARG:HG2	2.12	0.50
11:Fl:161:ASP:O	11:Fl:164:LEU:HG	2.11	0.50
13:G3:99:PHE:CE1	13:G3:190:THR:HG21	2.45	0.50
14:G4:79:LEU:HB2	14:G4:106:PHE:HB3	1.92	0.50
14:G5:714:LYS:HD3	14:G5:720:VAL:HG13	1.94	0.50
14:G6:82:ASP:HB3	14:G6:168:TYR:CZ	2.46	0.50
4:GA:54:SER:N	4:GA:62:VAL:O	2.42	0.50
3:GB:77:ARG:HD3	3:GB:90:PHE:HE2	1.75	0.50
4:GC:321:GLY:HA3	4:GC:372:GLN:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:GC:325:PRO:HA	4:GC:328:VAL:HB	1.93	0.50
3:GD:150:LEU:HD22	3:GD:154:LYS:HZ1	1.76	0.50
4:GE:11:GLN:O	4:GE:14:VAL:HG22	2.12	0.50
3:GJ:312:THR:HG22	3:GJ:370:ASN:HB3	1.93	0.50
3:GJ:361:LEU:HB3	25:N:37:PHE:HB3	1.93	0.50
15:H3:250:ASN:HA	15:H3:253:VAL:HB	1.93	0.50
15:H4:306:ARG:NH2	15:H4:309:GLN:HE21	2.09	0.50
4:HA:32:PRO:O	4:HA:85:GLN:NE2	2.43	0.50
3:HB:257:MET:HE3	3:HB:266:PHE:CD1	2.46	0.50
3:HB:292:GLN:O	3:HB:298:ASN:ND2	2.32	0.50
4:HC:413:MET:SD	4:HC:413:MET:N	2.85	0.50
4:HG:53:PHE:HB3	4:HG:61:HIS:HB3	1.93	0.50
3:HH:282:ARG:NH2	3:HH:292:GLN:OE1	2.27	0.50
3:HJ:102:ALA:O	3:HJ:106:TYR:N	2.41	0.50
17:I2:57:LEU:O	17:I2:61:TYR:N	2.37	0.50
4:IC:11:GLN:HB2	4:IC:74:VAL:HG21	1.94	0.50
3:ID:11:GLN:HE21	39:ID:501:GTP:H3'	1.76	0.50
3:ID:372:THR:HB	3:ID:375:GLN:HE22	1.75	0.50
3:IF:176:SER:O	3:IF:178:THR:N	2.45	0.50
4:IG:187:SER:O	4:IG:190:THR:OG1	2.25	0.50
4:II:346:TRP:CH2	3:IJ:391:ARG:HB2	2.46	0.50
3:IJ:73:MET:HE1	18:J:124:LEU:HD13	1.91	0.50
3:IJ:239:CYS:SG	3:IJ:316:VAL:HG11	2.51	0.50
4:IK:207:GLU:HB2	4:IK:304:LYS:HZ1	1.77	0.50
4:IM:113:GLU:OE1	4:IM:113:GLU:N	2.43	0.50
4:IM:280:LYS:HD2	4:IM:283:HIS:HE1	1.76	0.50
18:J:94:ARG:HE	18:J:139:PRO:HG3	1.75	0.50
18:J:117:ARG:HH22	4:JI:218:ASP:HB3	1.74	0.50
19:J1:170:SER:HB2	19:J1:171:PRO:HD2	1.94	0.50
4:JC:172:TYR:HB2	4:JC:203:MET:HB2	1.92	0.50
3:JD:117:LEU:HD11	3:JD:154:LYS:HD2	1.93	0.50
3:JD:180:VAL:HG23	3:JD:183:TYR:HD2	1.77	0.50
3:JF:291:GLN:NE2	3:JF:295:ASP:OD1	2.45	0.50
3:JH:182:PRO:HB2	3:JH:388:MET:CE	2.41	0.50
4:JK:224:TYR:CE1	39:JK:501:GTP:C5	2.94	0.50
21:K3:116:ASP:N	21:K3:116:ASP:OD1	2.41	0.50
3:KB:47:ILE:HG13	3:KB:51:TYR:HB2	1.93	0.50
4:KC:54:SER:N	4:KC:62:VAL:O	2.44	0.50
3:KF:415:MET:O	3:KF:419:VAL:HG23	2.11	0.50
4:KG:287:SER:N	4:KG:290:GLU:OE2	2.45	0.50
3:KH:375:GLN:HA	3:KH:378:PHE:CE1	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:KI:256:GLN:O	4:KI:260:VAL:HG12	2.11	0.50
4:KK:116:ASP:N	4:KK:116:ASP:OD1	2.42	0.50
3:KL:164:MET:HG2	3:KL:197:ASP:CG	2.37	0.50
3:KL:375:GLN:HA	3:KL:378:PHE:CE1	2.47	0.50
22:L1:93:ASP:O	3:LB:390:ARG:NH1	2.44	0.50
22:L2:87:ALA:HA	4:LE:264:ARG:HH22	1.76	0.50
22:L3:161:ARG:HA	22:L3:164:ASP:HB2	1.93	0.50
3:LD:350:LYS:HE3	4:LE:181:VAL:H	1.76	0.50
3:LD:375:GLN:HA	3:LD:378:PHE:CE1	2.46	0.50
4:LI:206:ASN:HA	4:LI:209:ILE:HD12	1.93	0.50
4:LI:420:GLU:HA	4:LI:423:GLU:OE2	2.12	0.50
4:LI:422:ARG:O	4:LI:426:ALA:N	2.32	0.50
24:M3:61:LYS:HA	24:M3:67:ARG:NH1	2.26	0.50
3:MD:13:GLY:HA2	3:MD:16:ILE:HB	1.93	0.50
3:MD:51:TYR:CD1	3:MD:61:PRO:HA	2.47	0.50
3:MD:118:ASP:OD1	3:MD:121:ARG:NH1	2.45	0.50
4:MK:49:PHE:O	4:MK:53:PHE:N	2.43	0.50
3:ML:2:ARG:HA	3:ML:129:CYS:O	2.12	0.50
26:N2:68:LYS:NZ	26:N2:70:ASP:HB3	2.27	0.50
26:N2:166:PHE:HE2	4:WE:220:GLU:N	2.10	0.50
4:NA:103:TYR:HB2	4:NA:186:ASN:HB2	1.93	0.50
4:NA:396:ASP:OD1	4:NA:397:LEU:N	2.45	0.50
3:NB:250:LEU:O	3:NB:254:ALA:N	2.32	0.50
4:NE:245:ASP:O	4:NE:356:ASN:ND2	2.45	0.50
3:NJ:322:SER:N	3:NJ:325:GLU:OE2	2.45	0.50
3:NL:176:SER:O	3:NL:178:THR:N	2.44	0.50
27:O:31:ASP:O	27:O:35:ARG:NE	2.44	0.50
28:O3:38:TYR:HE1	30:Q3:1412:THR:HA	1.76	0.50
4:OA:235:VAL:HA	4:OA:238:ILE:HG12	1.94	0.50
3:OF:3:GLU:OE2	3:OF:129:CYS:N	2.45	0.50
4:OI:88:HIS:O	4:OI:91:GLN:HB3	2.11	0.50
3:OJ:41:ASP:N	3:OJ:41:ASP:OD1	2.44	0.50
3:OJ:117:LEU:HD11	3:OJ:154:LYS:HD2	1.93	0.50
3:OJ:380:ARG:O	3:OJ:384:GLN:HG2	2.11	0.50
4:OK:125:LEU:HD13	4:OK:128:LEU:HD21	1.93	0.50
3:OL:12:CYS:HA	39:OL:501:GTP:N2	2.27	0.50
29:P1:60:LEU:HD12	29:P1:96:TRP:CE3	2.45	0.50
29:P2:393:TRP:CD1	29:P2:399:ARG:HH11	2.30	0.50
29:P2:528:TYR:HB2	29:P2:537:ILE:HB	1.91	0.50
4:PA:316:CYS:HB3	4:PA:378:LEU:HB3	1.93	0.50
3:PD:235:GLY:O	3:PD:238:THR:OG1	2.22	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PD:295:ASP:HB2	3:PD:298:ASN:HB2	1.93	0.50
3:PH:4:ILE:HB	3:PH:50:TYR:CE1	2.47	0.50
3:PH:410:GLU:O	3:PH:414:ASN:N	2.40	0.50
4:PK:12:ALA:HB1	39:PK:501:GTP:C2	2.46	0.50
4:PM:433:GLU:O	4:PM:437:VAL:N	2.43	0.50
27:Q:8:ASP:O	27:Q:11:GLN:NE2	2.45	0.50
27:Q:66:ALA:O	27:Q:70:LYS:HG2	2.12	0.50
30:Q3:1461:TYR:CD2	30:Q3:1469:LEU:HD11	2.47	0.50
30:Q3:1490:PHE:O	30:Q3:1494:LEU:HG	2.11	0.50
3:QB:109:GLY:O	3:QB:113:VAL:HG13	2.12	0.50
3:QF:101:TRP:CE3	3:QF:187:LEU:HD13	2.47	0.50
3:QF:295:ASP:HB2	3:QF:298:ASN:HB2	1.94	0.50
3:QF:345:ILE:HD12	3:QF:346:PRO:HD2	1.93	0.50
3:QJ:178:THR:HB	3:QJ:181:GLU:HB2	1.94	0.50
3:QJ:344:TRP:CD1	4:QK:401:LYS:HD2	2.46	0.50
3:RB:4:ILE:HB	3:RB:50:TYR:CE1	2.47	0.50
3:RD:189:VAL:HA	3:RD:192:LEU:HB2	1.94	0.50
3:RD:211:CYS:HA	3:RD:215:LEU:HB2	1.92	0.50
3:RD:322:SER:OG	3:RD:323:MET:SD	2.69	0.50
4:RE:88:HIS:CE1	4:RE:121:ARG:HH22	2.29	0.50
4:RE:316:CYS:HB3	4:RE:378:LEU:HB3	1.93	0.50
4:RG:122:ILE:O	4:RG:126:ALA:N	2.40	0.50
3:RH:161:ASP:O	3:RH:251:ARG:NH2	2.44	0.50
3:RH:217:LEU:HD11	3:RH:220:PRO:HB3	1.93	0.50
4:RI:146:GLY:N	39:RI:501:GTP:O2B	2.39	0.50
3:SD:12:CYS:HA	39:SD:501:GTP:N2	2.26	0.50
3:SD:19:LYS:NZ	3:SD:223:GLY:O	2.43	0.50
3:SD:218:THR:OG1	3:SD:219:THR:N	2.43	0.50
3:SH:270:PHE:HD2	3:SH:273:LEU:HD21	1.76	0.50
3:SH:315:ALA:HA	3:SH:367:PHE:HA	1.94	0.50
3:SL:234:SER:O	3:SL:238:THR:HG23	2.10	0.50
3:TB:44:LEU:HA	3:TB:47:ILE:HD11	1.94	0.50
4:TE:1:MET:O	4:TE:133:GLN:NE2	2.35	0.50
4:TE:70:LEU:HB2	4:TE:145:THR:HG21	1.93	0.50
4:TG:88:HIS:HB3	4:TG:91:GLN:HG2	1.93	0.50
3:TH:12:CYS:SG	3:TH:13:GLY:N	2.85	0.50
3:TH:305:PRO:HB2	3:TH:310:TYR:HE1	1.77	0.50
4:TI:6:SER:HA	4:TI:136:LEU:HB2	1.94	0.50
4:TI:70:LEU:HA	4:TI:95:GLY:HA3	1.93	0.50
4:TI:216:ASN:HB2	4:TI:276:ILE:HD12	1.94	0.50
33:U:194:MET:HE2	33:U:198:ILE:HD11	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UA:208:ALA:N	4:UA:304:LYS:HZ1	2.10	0.50
3:UB:11:GLN:HG3	39:UB:501:GTP:PA	2.52	0.50
3:UH:357:PRO:HB3	3:UH:362:LYS:HA	1.92	0.50
4:UI:67:PHE:O	4:UI:93:ILE:N	2.44	0.50
4:UI:260:VAL:O	3:UJ:397:TRP:HH2	1.94	0.50
3:UJ:252:LYS:O	3:UJ:256:ASN:ND2	2.44	0.50
3:VB:375:GLN:HA	3:VB:378:PHE:CZ	2.46	0.50
4:VC:76:ASP:OD1	4:VC:79:ARG:NH1	2.44	0.50
4:VE:224:TYR:HA	4:VE:227:LEU:HB2	1.92	0.50
4:VG:392:ASP:OD1	4:VG:393:HIS:N	2.45	0.50
4:VK:89:PRO:HD2	4:WK:280:LYS:HZ3	1.77	0.50
3:VL:254:ALA:O	3:VL:258:VAL:N	2.44	0.50
4:WA:139:HIS:CD2	4:WA:170:ALA:HB2	2.47	0.50
3:WB:14:ASN:ND2	3:WB:67:ASP:OD2	2.45	0.50
3:WB:106:TYR:HB2	3:WB:401:GLU:OE2	2.10	0.50
3:WB:217:LEU:HD11	3:WB:220:PRO:HB3	1.92	0.50
4:WC:52:PHE:HZ	4:WC:239:THR:HB	1.77	0.50
4:WE:402:ARG:HB2	4:WE:405:VAL:HG11	1.93	0.50
3:WF:194:GLU:OE1	3:WF:195:ASN:ND2	2.44	0.50
3:WH:419:VAL:O	3:WH:423:GLN:NE2	2.44	0.50
4:WI:220:GLU:O	4:WI:221:ARG:NE	2.44	0.50
4:WI:318:LEU:O	4:WI:375:VAL:HA	2.11	0.50
4:WI:386:GLU:HA	4:WI:389:ALA:HB3	1.92	0.50
3:WJ:118:ASP:OD1	3:WJ:121:ARG:NH1	2.44	0.50
3:WJ:357:PRO:O	3:WJ:359:ARG:NH2	2.44	0.50
4:WK:285:GLN:HE22	4:WK:287:SER:HB3	1.77	0.50
35:XL:103:MET:HE3	35:XL:148:ILE:CD1	2.42	0.50
36:Y:212:HIS:CD2	36:Y:216:ILE:HG13	2.46	0.50
37:YK:18:PHE:O	37:YK:22:GLN:N	2.44	0.50
37:YL:83:PHE:CD2	37:YL:148:MET:HE2	2.47	0.50
37:YP:50:GLN:O	37:YP:53:MET:HG3	2.11	0.50
37:YP:83:PHE:CD2	37:YP:148:MET:HE2	2.46	0.50
37:YT:49:VAL:HG13	37:YT:66:LEU:HD12	1.93	0.50
37:YW:5:LYS:HE2	37:YW:8:LEU:HD23	1.92	0.50
37:YW:96:LEU:HG	37:YW:99:LYS:HE3	1.94	0.50
1:A:313:ARG:NH1	4:HA:26:LEU:O	2.43	0.50
1:A:320:ARG:NE	4:HA:82:THR:HG22	2.25	0.50
2:A1:183:THR:OG1	7:C1:266:ARG:NH1	2.45	0.50
2:A2:325:ASN:OD1	2:A2:326:VAL:N	2.44	0.50
2:A3:43:ARG:CZ	5:B3:44:ILE:HG13	2.41	0.50
2:A3:43:ARG:HH12	5:B3:43:ARG:C	2.19	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:95:LYS:HZ2	2:A4:154:LEU:HG	1.76	0.50
3:AF:285:THR:O	3:AF:288:GLU:HG3	2.12	0.50
4:AK:10:GLY:O	4:AK:14:VAL:HG13	2.11	0.50
4:AK:54:SER:N	4:AK:62:VAL:O	2.43	0.50
5:B1:145:GLU:HA	5:B1:148:LYS:HE3	1.93	0.50
5:B2:7:LYS:HE2	8:D5:330:THR:N	2.24	0.50
5:B3:164:LEU:O	5:B3:168:ILE:HG12	2.12	0.50
3:BB:309:ARG:H	3:BB:372:THR:HG1	1.57	0.50
4:BC:68:VAL:HG12	4:BC:93:ILE:HB	1.94	0.50
4:BE:234:ILE:HD11	4:BE:272:TYR:HB2	1.93	0.50
3:BF:219:THR:O	13:G1:140:ASN:ND2	2.45	0.50
4:BI:272:TYR:HE1	4:BI:374:ALA:HB1	1.76	0.50
3:BJ:173:PRO:O	3:BJ:380:ARG:NH2	2.44	0.50
4:BM:264:ARG:HG2	4:BM:265:ILE:N	2.27	0.50
7:C4:199:LEU:O	7:C4:202:ARG:N	2.32	0.50
7:C7:129:GLN:O	7:C7:133:GLN:HG2	2.12	0.50
7:C7:266:ARG:HH12	8:D8:251:ALA:HB2	1.77	0.50
7:C7:363:THR:O	7:C7:366:THR:OG1	2.27	0.50
7:C7:472:LYS:O	7:C7:475:SER:OG	2.29	0.50
3:CB:324:LYS:NZ	4:CC:222:PRO:O	2.33	0.50
3:CF:304:ASP:O	3:CF:307:HIS:ND1	2.43	0.50
3:CH:309:ARG:N	3:CH:372:THR:OG1	2.27	0.50
3:CL:137:HIS:CE1	3:CL:168:SER:HB2	2.47	0.50
3:CL:415:MET:O	3:CL:419:VAL:HG23	2.11	0.50
7:Cb:127:LEU:HA	7:Cb:130:ASP:OD2	2.11	0.50
7:Cc:156:TRP:HB2	7:Cc:261:LYS:HZ1	1.76	0.50
7:Cc:419:ARG:O	7:Cc:423:GLU:HG2	2.12	0.50
6:D:197:PRO:HB2	6:D:202:LEU:HB3	1.93	0.50
8:D3:124:LEU:HD11	8:D3:268:ALA:HB1	1.92	0.50
8:D5:415:ASP:HB3	8:D5:419:LYS:NZ	2.26	0.50
8:D9:163:GLN:HG3	8:D9:165:PRO:HD2	1.93	0.50
3:DB:5:VAL:HG23	3:DB:130:LEU:HD21	1.94	0.50
3:DB:269:GLY:HA2	3:DB:300:MET:HE1	1.94	0.50
3:DD:375:GLN:HA	3:DD:378:PHE:CZ	2.46	0.50
4:DE:51:THR:HG23	4:DE:52:PHE:CD2	2.47	0.50
4:DE:118:VAL:HA	4:DE:121:ARG:HG2	1.92	0.50
4:DE:287:SER:N	4:DE:290:GLU:OE2	2.45	0.50
4:DG:329:ASN:OD1	4:DG:330:ALA:N	2.45	0.50
4:DG:371:VAL:HG11	4:DG:374:ALA:HB2	1.92	0.50
4:DI:223:THR:O	4:DI:227:LEU:HG	2.11	0.50
4:DK:308:ARG:O	4:DK:342:GLN:NE2	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DL:28:HIS:HD2	3:DL:43:GLN:HB2	1.76	0.50
3:DL:209:ASP:O	3:DL:213:ARG:N	2.45	0.50
3:DL:345:ILE:HD12	3:DL:346:PRO:HD2	1.93	0.50
8:Da:77:GLN:HA	8:Da:80:GLU:HG3	1.93	0.50
9:E:409:PRO:O	9:E:412:ARG:N	2.45	0.50
9:E:769:ALA:O	9:E:773:LEU:N	2.34	0.50
3:EB:7:LEU:HD13	3:EB:64:VAL:HB	1.93	0.50
4:EC:229:ARG:O	4:EC:233:GLN:N	2.38	0.50
3:EF:197:ASP:OD1	3:EF:198:GLU:N	2.44	0.50
4:EG:192:HIS:HA	4:EG:195:LEU:HD23	1.92	0.50
4:EI:116:ASP:OD1	4:EI:117:LEU:N	2.44	0.50
3:EJ:217:LEU:HD11	3:EJ:220:PRO:HB3	1.93	0.50
4:EK:160:ASP:OD1	4:EK:161:TYR:N	2.44	0.50
11:F1:208:HIS:HA	11:F2:89:ARG:HH21	1.76	0.50
11:F2:325:PHE:O	11:F2:328:LEU:HG	2.12	0.50
11:F3:428:GLN:NE2	11:F3:429:THR:HG23	2.26	0.50
11:F4:136:GLU:HB3	11:F4:140:ARG:HH12	1.77	0.50
11:F5:89:ARG:HG3	11:F5:90:TYR:H	1.77	0.50
11:F6:390:LYS:HA	11:F6:393:GLN:NE2	2.27	0.50
4:FA:12:ALA:HB2	39:FA:501:GTP:H5”	1.93	0.50
4:FE:236:SER:O	4:FE:243:ARG:NH2	2.41	0.50
4:FE:319:TYR:N	4:FE:354:GLY:O	2.45	0.50
3:FF:415:MET:O	3:FF:419:VAL:HG23	2.11	0.50
4:FG:84:ARG:HA	4:FG:87:PHE:CD2	2.47	0.50
4:FG:405:VAL:O	4:FG:409:VAL:HG22	2.11	0.50
4:FG:411:GLU:OE2	4:FG:413:MET:HE1	2.12	0.50
3:FH:20:PHE:CZ	3:FH:24:ILE:HD11	2.47	0.50
4:FK:213:CYS:O	4:FK:218:ASP:N	2.44	0.50
3:FL:113:VAL:HB	3:FL:154:LYS:HE2	1.94	0.50
11:Fc:301:ASN:HB3	11:Fc:305:ARG:NH2	2.27	0.50
11:Fe:180:ALA:O	11:Fe:184:VAL:HG23	2.12	0.50
11:Fg:149:LEU:HG	11:Fg:153:LYS:HZ3	1.77	0.50
11:Fj:155:GLU:HG2	12:G:268:ARG:NH1	2.25	0.50
11:Fk:352:ASP:OD1	11:Fk:356:LYS:NZ	2.42	0.50
13:G1:217:LYS:HG3	13:G1:218:GLU:N	2.27	0.50
13:G3:474:LYS:HA	13:G3:485:TYR:CZ	2.47	0.50
14:G4:99:ILE:HD13	14:G4:192:PRO:HB2	1.93	0.50
14:G4:263:ARG:HG2	14:G4:277:SER:HA	1.93	0.50
14:G5:360:THR:HA	14:G5:363:TYR:HB3	1.94	0.50
14:G5:513:VAL:O	14:G5:520:PHE:N	2.30	0.50
4:GA:49:PHE:O	4:GA:52:PHE:N	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GB:16:ILE:HG13	3:GB:226:ASN:ND2	2.26	0.50
4:GC:81:GLY:O	4:GC:84:ARG:NH1	2.45	0.50
4:GC:143:GLY:O	4:GC:147:SER:OG	2.28	0.50
3:GD:4:ILE:CD1	3:GD:131:GLN:HB2	2.42	0.50
3:GD:378:PHE:CD1	3:GD:419:VAL:HG22	2.47	0.50
4:GE:205:ASP:OD2	4:GE:304:LYS:NZ	2.29	0.50
3:GH:415:MET:O	3:GH:419:VAL:HG23	2.11	0.50
4:GK:212:ILE:HG13	4:GK:215:ARG:HH21	1.77	0.50
4:GK:392:ASP:OD1	4:GK:393:HIS:N	2.44	0.50
3:GL:19:LYS:O	3:GL:23:VAL:HG23	2.12	0.50
3:GL:90:PHE:HB3	3:GL:92:PHE:HE2	1.76	0.50
15:H5:36:GLY:O	15:H5:40:ALA:N	2.40	0.50
15:H6:246:ASP:O	15:H6:250:ASN:ND2	2.45	0.50
4:HA:224:TYR:HB3	4:HA:228:ASN:ND2	2.26	0.50
3:HB:172:SER:OG	3:HB:205:GLU:OE2	2.17	0.50
4:HC:324:VAL:HG11	3:HD:219:THR:HB	1.93	0.50
4:HE:260:VAL:HG23	4:HE:265:ILE:O	2.12	0.50
3:HH:12:CYS:HB3	39:HH:501:GTP:H5'	1.93	0.50
3:HJ:12:CYS:HA	39:HJ:501:GTP:N2	2.27	0.50
4:HK:116:ASP:N	4:HK:116:ASP:OD1	2.44	0.50
4:HK:154:MET:HE3	4:HK:194:THR:HG22	1.93	0.50
3:HL:30:ILE:HG13	3:HL:36:TYR:CD1	2.47	0.50
3:IB:2:ARG:HA	3:IB:129:CYS:O	2.12	0.50
4:IC:207:GLU:HB2	4:IC:304:LYS:NZ	2.26	0.50
3:ID:206:ALA:O	3:ID:210:ILE:HG12	2.12	0.50
4:IE:167:LEU:HB3	4:IE:169:PHE:CZ	2.47	0.50
3:IF:101:TRP:CE2	3:IF:187:LEU:HB3	2.46	0.50
4:IG:49:PHE:O	4:IG:53:PHE:N	2.44	0.50
4:II:208:ALA:N	4:II:304:LYS:HZ1	2.09	0.50
3:IJ:156:ARG:NH1	3:IJ:195:ASN:O	2.45	0.50
4:IK:196:GLU:HG2	4:IK:197:HIS:ND1	2.25	0.50
4:IK:213:CYS:O	4:IK:218:ASP:N	2.44	0.50
4:IM:420:GLU:O	4:IM:424:ASP:N	2.29	0.50
19:J2:111:ARG:O	19:J2:114:THR:OG1	2.20	0.50
3:JB:84:ILE:O	3:JB:86:ARG:NH1	2.45	0.50
3:JD:406:MET:HE3	3:ND:306:ARG:HG3	1.94	0.50
4:JE:3:GLU:OE2	4:JE:130:THR:N	2.33	0.50
3:JF:139:LEU:N	3:JF:168:SER:OG	2.43	0.50
3:JF:284:LEU:HG	3:JF:363:MET:HB2	1.94	0.50
4:JG:53:PHE:O	4:JG:64:ARG:NH1	2.44	0.50
3:JH:52:ASN:ND2	3:JH:62:ARG:HD3	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:JI:51:THR:HG23	4:JI:52:PHE:CD2	2.45	0.50
4:JI:116:ASP:N	4:JI:116:ASP:OD1	2.43	0.50
4:JI:260:VAL:HG23	4:JI:265:ILE:O	2.11	0.50
3:JJ:249:ASP:OD2	3:JJ:251:ARG:NE	2.45	0.50
4:JK:47:ASP:HB3	4:JK:49:PHE:CE2	2.47	0.50
3:JL:12:CYS:SG	3:JL:13:GLY:N	2.84	0.50
21:K2:320:ASP:HB2	21:K2:324:GLN:HE22	1.76	0.50
21:K2:384:LYS:HG3	4:LE:339:ARG:HH12	1.77	0.50
21:K3:245:VAL:O	21:K3:249:ASN:N	2.44	0.50
4:KA:318:LEU:HD12	4:KA:318:LEU:O	2.12	0.50
3:KB:73:MET:O	3:KB:77:ARG:N	2.33	0.50
3:KB:143:THR:O	3:KB:147:MET:HG3	2.12	0.50
3:KH:166:THR:OG1	3:KH:198:GLU:O	2.27	0.50
4:KI:116:ASP:N	4:KI:116:ASP:OD1	2.42	0.50
3:KJ:2:ARG:HB3	3:KJ:131:GLN:NE2	2.26	0.50
4:KK:1:MET:O	4:KK:131:GLY:HA3	2.12	0.50
4:KK:54:SER:N	4:KK:62:VAL:O	2.44	0.50
4:KK:287:SER:OG	4:KK:290:GLU:OE1	2.23	0.50
22:L2:173:ASP:HA	22:L2:176:ILE:HG22	1.94	0.50
4:LA:118:VAL:O	4:LA:122:ILE:HG12	2.11	0.50
4:LA:319:TYR:HD2	4:LA:323:VAL:HG11	1.76	0.50
4:LC:346:TRP:HZ3	3:LD:391:ARG:HB2	1.76	0.50
4:LI:115:VAL:HG21	4:LI:156:ARG:HD3	1.93	0.50
3:LL:3:GLU:HG2	3:LL:130:LEU:HD23	1.93	0.50
3:LL:380:ARG:O	3:LL:384:GLN:HG2	2.12	0.50
4:ME:50:ASN:O	4:ME:64:ARG:NH1	2.44	0.50
4:ME:113:GLU:OE1	4:ME:113:GLU:N	2.42	0.50
3:MH:285:THR:O	3:MH:288:GLU:HG3	2.12	0.50
3:MJ:11:GLN:HG3	39:MJ:501:GTP:PA	2.51	0.50
4:MK:206:ASN:HA	4:MK:209:ILE:HD12	1.94	0.50
4:MK:287:SER:N	4:MK:290:GLU:OE2	2.45	0.50
3:ML:318:ARG:HD3	3:ML:358:PRO:HG3	1.93	0.50
3:ML:415:MET:O	3:ML:419:VAL:HG23	2.11	0.50
4:MM:81:GLY:O	4:MM:84:ARG:NH1	2.45	0.50
3:NB:378:PHE:CD1	3:NB:419:VAL:HG22	2.47	0.50
3:ND:152:ILE:HD12	3:ND:195:ASN:HB2	1.94	0.50
3:NF:311:LEU:HD11	3:NF:372:THR:HG23	1.93	0.50
4:NG:3:GLU:OE2	4:NG:130:THR:N	2.36	0.50
4:NG:276:ILE:HG13	4:NG:280:LYS:HE3	1.93	0.50
4:NG:329:ASN:OD1	4:NG:330:ALA:N	2.44	0.50
3:NH:12:CYS:SG	3:NH:13:GLY:N	2.84	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NH:173:PRO:O	3:NH:380:ARG:NH2	2.44	0.50
4:NI:172:TYR:N	4:NI:204:VAL:O	2.28	0.50
4:NK:98:ASP:O	4:NK:105:ARG:NH2	2.30	0.50
4:NK:264:ARG:O	4:NK:266:HIS:ND1	2.45	0.50
4:NK:329:ASN:HA	4:NK:332:ILE:HG12	1.93	0.50
4:OE:139:HIS:CD2	4:OE:170:ALA:HB2	2.46	0.50
3:OF:261:PRO:HD3	4:OG:406:HIS:CG	2.47	0.50
3:OH:412:GLU:OE2	3:OH:415:MET:HE3	2.11	0.50
3:OJ:214:THR:HG21	3:OJ:273:LEU:HB3	1.94	0.50
3:OJ:316:VAL:HG22	3:OJ:352:ALA:HB3	1.94	0.50
4:OK:392:ASP:OD1	4:OK:393:HIS:N	2.44	0.50
3:OL:3:GLU:OE2	3:OL:127:CYS:HB3	2.11	0.50
29:P1:397:LYS:HG2	29:P1:414:SER:H	1.76	0.50
4:PC:391:LEU:O	4:PC:395:PHE:N	2.43	0.50
3:PF:20:PHE:CE1	3:PF:233:MET:HG3	2.47	0.50
3:PF:72:THR:O	3:PF:75:SER:OG	2.26	0.50
4:PG:2:ARG:HH12	4:PG:249:ASN:ND2	2.09	0.50
3:PJ:52:ASN:CG	3:PJ:62:ARG:HD3	2.37	0.50
3:PL:322:SER:OG	3:PL:323:MET:SD	2.69	0.50
30:Q2:1357:THR:HB	30:Q2:1396:TYR:CD2	2.46	0.50
4:QG:70:LEU:HA	4:QG:95:GLY:HA3	1.93	0.50
4:QG:287:SER:N	4:QG:290:GLU:OE2	2.45	0.50
4:QG:301:GLN:N	4:QG:301:GLN:OE1	2.45	0.50
3:QJ:12:CYS:HA	39:QJ:501:GTP:N2	2.26	0.50
3:QL:60:VAL:HG23	3:QL:86:ARG:HH11	1.77	0.50
4:QM:284:GLU:N	4:QM:284:GLU:OE2	2.44	0.50
4:RC:107:HIS:CE1	4:RC:152:LEU:HD13	2.47	0.50
4:RC:280:LYS:O	4:RC:284:GLU:HB2	2.11	0.50
3:RF:3:GLU:OE2	3:RF:127:CYS:HB2	2.11	0.50
3:RH:240:LEU:HA	3:RH:248:ALA:HB1	1.92	0.50
3:RH:378:PHE:CD1	3:RH:419:VAL:HG22	2.46	0.50
4:RI:287:SER:N	4:RI:290:GLU:OE2	2.44	0.50
3:RJ:269:GLY:N	3:RJ:367:PHE:O	2.44	0.50
4:RK:264:ARG:O	4:RK:266:HIS:ND1	2.43	0.50
4:RK:317:MET:HE1	4:RK:351:PHE:HB3	1.92	0.50
3:SB:139:LEU:HD21	3:SB:170:VAL:HG22	1.94	0.50
3:SB:182:PRO:HB3	3:SB:381:ILE:HD11	1.92	0.50
4:SE:316:CYS:HB3	4:SE:378:LEU:HB2	1.94	0.50
3:SF:46:ARG:HH22	4:SG:73:THR:HA	1.76	0.50
4:SI:6:SER:HA	4:SI:136:LEU:HB2	1.93	0.50
4:SI:236:SER:O	4:SI:243:ARG:NH2	2.38	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:SM:161:TYR:O	4:SM:166:LYS:NZ	2.38	0.50
3:TB:271:ALA:HB1	3:TB:272:PRO:HD2	1.92	0.50
4:TC:51:THR:HG23	4:TC:52:PHE:CD2	2.47	0.50
4:TC:89:PRO:HD2	4:UA:280:LYS:NZ	2.26	0.50
4:TG:206:ASN:HA	4:TG:209:ILE:HD12	1.94	0.50
4:TI:214:ARG:NH1	4:TI:215:ARG:HG3	2.26	0.50
4:TM:188:ILE:HG22	4:TM:421:ALA:HB1	1.94	0.50
4:TM:271:THR:HB	4:TM:377:MET:HE2	1.94	0.50
4:UA:46:ASP:OD1	4:UA:50:ASN:ND2	2.44	0.50
4:UA:115:VAL:HA	4:UA:118:VAL:HG22	1.93	0.50
3:UB:183:TYR:CZ	3:UB:388:MET:HG3	2.46	0.50
3:UD:285:THR:O	3:UD:288:GLU:HG3	2.11	0.50
4:UE:115:VAL:O	4:UE:119:LEU:N	2.35	0.50
4:UE:256:GLN:O	4:UE:260:VAL:HG12	2.12	0.50
3:UF:176:SER:O	3:UF:178:THR:N	2.44	0.50
3:UH:182:PRO:HB2	3:UH:388:MET:HE1	1.94	0.50
3:UH:318:ARG:C	3:UH:321:MET:HE1	2.36	0.50
4:UI:433:GLU:O	4:UI:437:VAL:N	2.44	0.50
4:UK:205:ASP:OD2	4:UK:304:LYS:NZ	2.29	0.50
3:UL:111:GLU:HG2	3:UL:112:LEU:HD22	1.94	0.50
3:VB:174:LYS:HG3	3:VB:175:VAL:HG12	1.93	0.50
3:VD:394:PHE:HA	3:VD:397:TRP:HZ3	1.77	0.50
3:VF:282:ARG:HH22	3:VF:292:GLN:CD	2.20	0.50
4:VG:256:GLN:O	4:VG:260:VAL:HG12	2.11	0.50
4:VG:279:GLU:O	4:VG:282:TYR:HB3	2.11	0.50
3:VH:206:ALA:O	3:VH:210:ILE:HG12	2.11	0.50
3:VJ:12:CYS:HA	39:VJ:501:GTP:N2	2.26	0.50
3:VL:415:MET:O	3:VL:419:VAL:HG23	2.12	0.50
33:W:269:GLU:O	33:W:272:ARG:HG2	2.11	0.50
3:WB:380:ARG:O	3:WB:384:GLN:HG2	2.11	0.50
4:WC:7:ILE:N	4:WC:136:LEU:O	2.32	0.50
3:WF:19:LYS:NZ	3:WF:223:GLY:O	2.45	0.50
4:WG:12:ALA:HB1	39:WG:501:GTP:N2	2.27	0.50
4:WI:154:MET:HA	4:WI:157:LEU:HG	1.92	0.50
3:WJ:28:HIS:O	3:WJ:43:GLN:NE2	2.45	0.50
4:WK:425:LEU:O	4:WK:428:LEU:HB2	2.12	0.50
34:XB:164:ARG:NH2	34:XB:181:PHE:HA	2.27	0.50
37:YA:8:LEU:HD11	37:YA:145:LEU:HD22	1.92	0.50
37:YD:83:PHE:HB2	37:YD:101:LYS:HZ1	1.77	0.50
37:YS:99:LYS:HE2	37:YS:147:PHE:HB3	1.93	0.50
37:YT:8:LEU:HA	37:YT:11:ILE:HG22	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:YU:121:VAL:HG12	37:YU:138:VAL:HB	1.92	0.50
2:A1:335:TYR:O	2:A1:339:LYS:HG3	2.10	0.50
2:A2:362:LEU:HG	2:A2:366:TYR:CE2	2.46	0.50
2:A4:154:LEU:O	2:A4:158:THR:HG23	2.11	0.50
3:AB:250:LEU:HD13	3:AB:253:LEU:HD12	1.92	0.50
4:AC:224:TYR:CE1	39:AC:501:GTP:C5	2.97	0.50
4:AC:370:LYS:HB2	14:G4:71:TRP:HZ3	1.76	0.50
3:AD:11:GLN:HE21	39:AD:501:GTP:H3'	1.77	0.50
4:AI:104:ALA:HA	4:AI:107:HIS:HB3	1.94	0.50
4:AI:154:MET:HA	4:AI:157:LEU:HG	1.93	0.50
3:AL:12:CYS:SG	39:AL:501:GTP:H5'	2.52	0.50
4:AM:196:GLU:HG2	4:AM:197:HIS:ND1	2.27	0.50
1:B:483:LYS:HD3	4:GG:38:SER:HB2	1.94	0.50
5:B4:396:LYS:HD3	5:B4:404:PHE:CE2	2.46	0.50
5:B8:202:LYS:CB	5:B9:319:GLU:HG3	2.41	0.50
3:BB:28:HIS:ND1	3:BB:43:GLN:HB2	2.25	0.50
3:BB:52:ASN:OD1	3:BB:62:ARG:NH1	2.45	0.50
3:BF:324:LYS:HD2	4:BG:221:ARG:HA	1.94	0.50
3:BH:2:ARG:HB3	3:BH:131:GLN:NE2	2.26	0.50
4:BK:121:ARG:O	4:BK:124:LYS:HG3	2.12	0.50
3:BL:323:MET:HE2	4:BM:224:TYR:CD1	2.47	0.50
4:BM:166:LYS:N	4:BM:199:ASP:OD2	2.44	0.50
6:C:272:MET:O	6:C:276:ASN:ND2	2.45	0.50
7:C1:93:ARG:HG2	7:C2:212:HIS:HB2	1.93	0.50
7:C4:214:GLU:OE2	7:C4:214:GLU:N	2.44	0.50
7:C4:440:ASP:O	7:C4:444:THR:HG23	2.11	0.50
7:C7:258:LEU:HD23	7:C7:261:LYS:HE3	1.93	0.50
7:C8:309:LEU:HD23	7:C8:312:GLN:NE2	2.27	0.50
7:C8:373:PHE:HA	7:C8:376:GLU:OE1	2.11	0.50
7:C9:197:GLU:O	7:C9:201:HIS:ND1	2.43	0.50
4:CC:208:ALA:N	4:CC:304:LYS:HZ1	2.09	0.50
4:CC:428:LEU:HD23	4:CC:432:TYR:HE2	1.76	0.50
3:CD:3:GLU:OE2	3:CD:129:CYS:N	2.45	0.50
4:CE:229:ARG:NH1	4:CE:366:GLY:HA2	2.26	0.50
4:CE:245:ASP:O	4:CE:356:ASN:ND2	2.44	0.50
3:CH:350:LYS:NZ	4:CI:181:VAL:HG13	2.27	0.50
4:CI:3:GLU:OE2	4:CI:130:THR:N	2.43	0.50
3:CJ:317:PHE:O	3:CJ:354:CYS:N	2.32	0.50
3:CJ:415:MET:O	3:CJ:419:VAL:HG23	2.12	0.50
4:CK:46:ASP:HA	4:CK:50:ASN:HB3	1.92	0.50
4:CM:42:ILE:HG21	4:CM:59:GLY:HA2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Cb:171:THR:HG21	7:Cb:251:GLN:NE2	2.26	0.50
7:Cb:375:ILE:O	7:Cb:378:THR:OG1	2.22	0.50
7:Cb:451:THR:O	7:Cb:455:LEU:HG	2.11	0.50
7:Cc:216:GLU:O	7:Cc:220:LEU:HG	2.12	0.50
6:D:43:TYR:OH	6:D:56:MET:HA	2.11	0.50
6:D:287:MET:SD	6:D:290:ILE:HG13	2.51	0.50
8:D8:255:GLU:OE1	8:D8:255:GLU:N	2.32	0.50
4:DA:172:TYR:N	4:DA:204:VAL:O	2.35	0.50
4:DA:331:ALA:O	4:DA:334:THR:OG1	2.24	0.50
4:DC:8:HIS:CD2	4:DC:138:PHE:HD2	2.30	0.50
4:DC:116:ASP:OD1	4:DC:116:ASP:N	2.44	0.50
4:DE:319:TYR:HE2	4:DE:328:VAL:HG13	1.76	0.50
3:DF:91:VAL:HG21	3:DF:116:VAL:HG12	1.94	0.50
4:DG:172:TYR:N	4:DG:204:VAL:O	2.34	0.50
3:DH:81:PHE:O	3:DH:84:ILE:HG22	2.10	0.50
3:EB:54:ALA:HB3	3:EB:58:LYS:HB3	1.93	0.50
3:EB:74:ASP:O	3:EB:78:SER:OG	2.19	0.50
3:EB:374:ILE:HG23	3:EB:377:LEU:HD22	1.93	0.50
4:EE:161:TYR:O	4:EE:166:LYS:NZ	2.38	0.50
3:EF:11:GLN:HG3	39:EF:501:GTP:PA	2.51	0.50
3:EF:12:CYS:HB3	39:EF:501:GTP:O4'	2.12	0.50
3:EF:155:ILE:HA	3:EF:158:GLU:HB2	1.93	0.50
4:EG:333:ALA:HA	4:EG:336:LYS:HD2	1.92	0.50
4:EI:102:ASN:CG	4:EI:105:ARG:H	2.19	0.50
4:EI:316:CYS:O	4:EI:378:LEU:N	2.43	0.50
3:EJ:239:CYS:SG	3:EJ:248:ALA:HA	2.51	0.50
3:EJ:344:TRP:O	4:EK:401:LYS:NZ	2.30	0.50
4:EK:206:ASN:HA	4:EK:209:ILE:HD12	1.94	0.50
3:EL:30:ILE:HG13	3:EL:36:TYR:HD1	1.77	0.50
3:EL:32:PRO:O	3:EL:83:GLN:NE2	2.27	0.50
9:F:318:ARG:NH2	3:HJ:48:ASN:HD22	2.05	0.50
11:F3:95:TRP:NE1	11:F3:99:ASN:HD21	2.10	0.50
11:F3:184:VAL:O	11:F3:187:PRO:HD2	2.12	0.50
11:F3:370:GLN:O	11:F3:374:THR:HG23	2.12	0.50
4:FE:265:ILE:HD12	4:FE:432:TYR:CE1	2.46	0.50
4:FE:411:GLU:OE2	4:FE:413:MET:HE1	2.12	0.50
3:FH:11:GLN:HG3	39:FH:501:GTP:PA	2.51	0.50
3:FH:324:LYS:NZ	4:FI:222:PRO:O	2.36	0.50
3:FL:285:THR:O	3:FL:288:GLU:HG3	2.12	0.50
11:Fb:356:LYS:HG3	11:Fb:360:GLN:HE22	1.77	0.50
11:Ff:160:LEU:O	11:Ff:164:LEU:HG	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:G1:21:THR:HG22	27:Q:87:ARG:NH2	2.26	0.50
14:G5:48:LEU:HB2	14:G5:51:GLN:HB2	1.93	0.50
14:G5:616:LEU:HB3	14:G5:680:ARG:HH21	1.76	0.50
14:G6:171:ASP:OD1	14:G6:172:PRO:HD2	2.12	0.50
3:GB:51:TYR:CD1	3:GB:61:PRO:HA	2.47	0.50
4:GC:6:SER:HA	4:GC:136:LEU:HB2	1.94	0.50
4:GC:139:HIS:HE1	4:GC:168:GLU:HB3	1.75	0.50
4:GE:172:TYR:CD1	4:GE:173:PRO:HD2	2.47	0.50
4:GE:228:ASN:ND2	23:M:94:TYR:HH	2.09	0.50
3:GF:215:LEU:HB3	3:GF:217:LEU:HD22	1.94	0.50
4:GG:50:ASN:OD1	4:GG:51:THR:N	2.44	0.50
4:GI:326:LYS:NZ	3:GJ:208:TYR:O	2.44	0.50
3:GJ:379:LYS:O	3:GJ:382:SER:OG	2.18	0.50
4:GK:88:HIS:HE1	4:GK:90:GLU:HG2	1.75	0.50
15:H5:238:ASP:OD1	15:H5:239:GLY:N	2.45	0.50
4:HC:102:ASN:ND2	4:HC:411:GLU:OE2	2.41	0.50
3:HD:7:LEU:HD13	3:HD:64:VAL:HB	1.93	0.50
3:HD:175:VAL:HG22	3:HD:177:ASP:H	1.76	0.50
4:HE:386:GLU:HA	4:HE:389:ALA:HB3	1.93	0.50
3:HF:255:VAL:HG12	4:HG:407:TRP:CD2	2.46	0.50
3:HF:415:MET:O	3:HF:419:VAL:HG23	2.12	0.50
4:HG:10:GLY:O	4:HG:14:VAL:HG13	2.11	0.50
3:HH:114:ASP:N	3:HH:114:ASP:OD1	2.44	0.50
3:HJ:246:LEU:HB3	3:HJ:353:VAL:O	2.12	0.50
4:HK:318:LEU:O	4:HK:375:VAL:HA	2.11	0.50
3:HL:15:GLN:HB2	3:HL:222:TYR:HE2	1.76	0.50
4:IA:67:PHE:O	4:IA:93:ILE:N	2.44	0.50
4:IA:182:VAL:HA	4:IA:185:TYR:CD2	2.37	0.50
3:IB:91:VAL:HG11	3:IB:116:VAL:HG12	1.93	0.50
3:IB:235:GLY:O	3:IB:238:THR:OG1	2.28	0.50
4:IC:208:ALA:N	4:IC:304:LYS:HZ1	2.09	0.50
4:IE:211:ASP:O	4:IE:214:ARG:NH1	2.45	0.50
3:IH:275:SER:HA	3:IH:276:ARG:NH2	2.27	0.50
3:IJ:326:VAL:HA	3:IJ:329:GLN:CD	2.36	0.50
3:IJ:357:PRO:HB3	3:IJ:362:LYS:O	2.12	0.50
3:IJ:378:PHE:CD1	3:IJ:419:VAL:HG22	2.47	0.50
4:IK:89:PRO:HD3	3:JJ:281:TYR:CE2	2.47	0.50
4:IM:70:LEU:HA	4:IM:95:GLY:HA3	1.92	0.50
4:IM:207:GLU:HB2	4:IM:304:LYS:NZ	2.26	0.50
19:J3:117:LEU:HD23	19:J3:135:THR:HG21	1.93	0.50
4:JC:12:ALA:HB1	39:JC:501:GTP:C2	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:JC:118:VAL:O	4:JC:122:ILE:HG13	2.12	0.50
4:JG:88:HIS:HB3	4:JG:91:GLN:CB	2.42	0.50
4:JG:272:TYR:CZ	4:JG:274:PRO:HG2	2.46	0.50
3:JH:41:ASP:O	3:JH:45:GLU:N	2.43	0.50
4:JI:185:TYR:CZ	4:JI:398:MET:HE1	2.46	0.50
4:JI:186:ASN:OD1	4:JI:187:SER:N	2.45	0.50
21:K1:425:HIS:HA	21:K1:428:HIS:CD2	2.46	0.50
21:K4:147:ILE:O	21:K4:151:LEU:HG	2.11	0.50
4:KC:392:ASP:OD1	4:KC:393:HIS:N	2.44	0.50
3:KD:269:GLY:N	3:KD:367:PHE:O	2.44	0.50
3:KH:209:ASP:O	3:KH:213:ARG:N	2.45	0.50
4:KK:139:HIS:CD2	4:KK:170:ALA:HB2	2.47	0.50
22:L1:88:VAL:HB	4:LA:262:TYR:HB3	1.92	0.50
22:L1:230:LEU:O	22:L1:234:MET:HG2	2.12	0.50
22:L2:80:ARG:HG2	22:L2:81:CYS:N	2.26	0.50
22:L2:88:VAL:HG13	4:LE:264:ARG:CZ	2.42	0.50
22:L3:129:ARG:NH2	4:LK:93:ILE:HD13	2.26	0.50
3:LB:139:LEU:HD21	3:LB:170:VAL:HG22	1.94	0.50
3:LB:172:SER:OG	3:LB:205:GLU:OE2	2.19	0.50
3:LF:235:GLY:O	3:LF:238:THR:OG1	2.27	0.50
4:LG:164:LYS:HZ3	28:O2:22:TRP:CG	2.29	0.50
3:LH:250:LEU:HD13	3:LH:253:LEU:HD12	1.94	0.50
3:LH:285:THR:O	3:LH:288:GLU:HG3	2.11	0.50
4:LI:88:HIS:CD2	4:MI:280:LYS:HZ3	2.28	0.50
3:LJ:214:THR:HG23	3:LJ:215:LEU:HD12	1.92	0.50
3:LJ:305:PRO:HB2	3:LJ:310:TYR:HE1	1.77	0.50
23:M:61:ILE:HG23	23:M:63:GLU:N	2.26	0.50
3:MB:79:GLY:C	27:O:19:ARG:HH12	2.19	0.50
4:MC:272:TYR:CZ	4:MC:274:PRO:HG2	2.46	0.50
3:MD:139:LEU:N	3:MD:168:SER:OG	2.44	0.50
3:MD:194:GLU:OE1	3:MD:195:ASN:ND2	2.44	0.50
4:MG:392:ASP:O	4:MG:396:ASP:N	2.38	0.50
3:MH:12:CYS:HA	39:MH:501:GTP:N2	2.27	0.50
4:MI:139:HIS:CD2	4:MI:170:ALA:HB2	2.47	0.50
4:MI:154:MET:HE1	4:MI:197:HIS:HB2	1.94	0.50
4:MI:188:ILE:HG12	4:MI:421:ALA:HB1	1.94	0.50
4:MI:272:TYR:HD2	4:MI:275:VAL:HG13	1.76	0.50
4:NE:30:ILE:HG13	4:NE:53:PHE:HE2	1.75	0.50
4:NE:207:GLU:HB2	4:NE:304:LYS:HZ1	1.76	0.50
4:NG:427:ALA:HA	4:NG:430:LYS:HG2	1.94	0.50
4:NI:1:MET:SD	4:NI:2:ARG:N	2.84	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:NI:51:THR:HG23	4:NI:52:PHE:CD2	2.46	0.50
4:NI:54:SER:N	4:NI:62:VAL:O	2.44	0.50
3:NJ:12:CYS:HA	39:NJ:501:GTP:N2	2.26	0.50
3:NJ:378:PHE:CD1	3:NJ:419:VAL:HG22	2.47	0.50
4:NK:178:SER:OG	4:NK:180:ALA:O	2.29	0.50
4:OC:224:TYR:HB3	4:OC:228:ASN:ND2	2.26	0.50
4:OE:36:MET:HE3	4:OE:36:MET:HA	1.93	0.50
4:OG:235:VAL:HA	4:OG:238:ILE:HG12	1.94	0.50
3:OH:73:MET:HA	3:OH:76:VAL:HG22	1.94	0.50
29:P2:105:ALA:HB1	29:P2:145:ARG:HE	1.75	0.50
29:P2:229:ILE:N	29:P2:243:GLY:O	2.34	0.50
29:P2:354:LYS:HZ1	29:P2:374:ASN:HA	1.76	0.50
4:PE:52:PHE:HZ	4:PE:239:THR:HB	1.76	0.50
4:PE:113:GLU:OE1	4:PE:113:GLU:N	2.42	0.50
4:PG:287:SER:OG	4:PG:290:GLU:OE1	2.21	0.50
4:PI:83:TYR:HB3	4:PI:86:LEU:HD12	1.94	0.50
4:PI:333:ALA:HA	4:PI:336:LYS:HD2	1.93	0.50
3:PJ:289:LEU:HD13	3:PJ:363:MET:HE3	1.93	0.50
30:Q1:1450:CYS:HB3	30:Q1:1453:PRO:HG2	1.94	0.50
30:Q2:1419:ARG:NE	30:Q2:1419:ARG:HA	2.27	0.50
4:QC:104:ALA:HA	4:QC:107:HIS:HB3	1.92	0.50
3:QF:117:LEU:HD11	3:QF:154:LYS:HD2	1.93	0.50
3:QF:385:PHE:HZ	3:QF:408:PHE:HB3	1.77	0.50
4:QG:89:PRO:HD2	4:RG:280:LYS:HZ3	1.76	0.50
4:QI:214:ARG:NH1	4:QI:215:ARG:HG3	2.26	0.50
3:QJ:56:GLY:O	3:QJ:58:LYS:NZ	2.45	0.50
3:QJ:189:VAL:HA	3:QJ:192:LEU:HB2	1.94	0.50
4:QK:288:VAL:HG11	4:QK:327:ASP:HB2	1.93	0.50
3:RD:165:ASN:HA	3:RD:198:GLU:HB3	1.94	0.50
3:RD:324:LYS:HE2	4:RE:222:PRO:CD	2.42	0.50
4:RG:258:ASN:HB3	4:RG:352:LYS:HE2	1.93	0.50
3:RH:268:PRO:HD2	3:RH:301:ALA:HB2	1.93	0.50
3:RJ:328:GLU:OE1	3:RJ:332:ASN:ND2	2.44	0.50
4:RK:208:ALA:H	4:RK:304:LYS:HZ1	1.60	0.50
4:RM:143:GLY:O	4:RM:147:SER:OG	2.23	0.50
3:SB:120:VAL:O	3:SB:124:ALA:N	2.36	0.50
3:SB:218:THR:OG1	3:SB:219:THR:N	2.44	0.50
3:SB:392:LYS:HG3	3:SB:395:LEU:HD13	1.93	0.50
3:SL:47:ILE:HG21	3:SL:59:TYR:CZ	2.45	0.50
3:TB:57:GLY:HA3	33:U:504:LYS:HZ3	1.75	0.50
3:TB:109:GLY:O	3:TB:113:VAL:N	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:TC:1:MET:O	4:TC:131:GLY:HA3	2.11	0.50
4:TE:319:TYR:HB2	4:TE:355:ILE:HD13	1.92	0.50
3:TF:346:PRO:HD2	4:TG:398:MET:HE1	1.94	0.50
3:TH:118:ASP:O	3:TH:122:LYS:HG3	2.12	0.50
3:TH:374:ILE:HA	3:TH:377:LEU:HD13	1.93	0.50
4:TI:329:ASN:HA	4:TI:332:ILE:HG12	1.94	0.50
33:U:176:LEU:HD22	3:UL:33:THR:HG22	1.93	0.50
33:U:237:ARG:O	33:U:241:GLN:HG2	2.11	0.50
4:UA:329:ASN:OD1	4:UA:330:ALA:N	2.45	0.50
3:UB:206:ALA:O	3:UB:210:ILE:HG12	2.11	0.50
4:UC:7:ILE:N	4:UC:136:LEU:O	2.32	0.50
4:UC:319:TYR:N	4:UC:354:GLY:O	2.45	0.50
3:UD:176:SER:O	3:UD:178:THR:N	2.44	0.50
4:UE:6:SER:HA	4:UE:136:LEU:HB3	1.93	0.50
3:UF:372:THR:HB	3:UF:375:GLN:NE2	2.26	0.50
4:UI:423:GLU:HA	4:UI:426:ALA:HB3	1.92	0.50
3:UL:12:CYS:SG	3:UL:13:GLY:N	2.85	0.50
3:VB:268:PRO:HD2	3:VB:301:ALA:HB2	1.94	0.50
3:VD:12:CYS:SG	39:VD:501:GTP:H5'	2.52	0.50
3:VD:114:ASP:N	3:VD:114:ASP:OD1	2.45	0.50
3:VD:309:ARG:N	3:VD:372:THR:OG1	2.29	0.50
4:VG:89:PRO:HD2	4:WG:280:LYS:HZ3	1.77	0.50
3:VH:285:THR:O	3:VH:288:GLU:HG3	2.12	0.50
3:VH:309:ARG:O	3:VH:371:SER:OG	2.26	0.50
4:VI:269:LEU:N	4:VI:379:SER:O	2.38	0.50
4:VK:272:TYR:CZ	4:VK:274:PRO:HG2	2.46	0.50
3:VL:139:LEU:HD21	3:VL:170:VAL:HG22	1.93	0.50
4:WA:122:ILE:O	4:WA:126:ALA:N	2.41	0.50
4:WC:423:GLU:HA	4:WC:426:ALA:HB3	1.94	0.50
3:WD:3:GLU:OE2	3:WD:128:ASP:N	2.44	0.50
3:WD:114:ASP:N	3:WD:114:ASP:OD1	2.45	0.50
3:WD:166:THR:OG1	3:WD:198:GLU:O	2.29	0.50
3:WD:176:SER:O	3:WD:178:THR:N	2.44	0.50
3:WF:246:LEU:HD22	3:WF:354:CYS:HA	1.94	0.50
4:WG:46:ASP:OD1	4:WG:50:ASN:ND2	2.39	0.50
4:WG:329:ASN:OD1	4:WG:330:ALA:N	2.45	0.50
4:WG:363:VAL:H	4:WG:368:LEU:HD21	1.76	0.50
3:WJ:166:THR:OG1	3:WJ:198:GLU:O	2.27	0.50
3:WJ:324:LYS:HD3	4:WK:210:TYR:HE1	1.76	0.50
3:WL:3:GLU:OE2	3:WL:127:CYS:HB2	2.12	0.50
3:WL:214:THR:HG21	3:WL:273:LEU:HB3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:WL:254:ALA:O	3:WL:258:VAL:N	2.44	0.50
34:XG:104:ARG:HB2	34:XG:118:ILE:HD11	1.92	0.50
37:YA:25:PHE:HE1	37:YA:66:LEU:HA	1.76	0.50
37:YD:71:ASP:O	37:YD:74:SER:OG	2.18	0.50
37:YG:18:PHE:CE1	37:YG:22:GLN:HA	2.46	0.50
37:YJ:47:GLU:N	37:YJ:106:GLN:OE1	2.44	0.50
37:YT:22:GLN:O	37:YT:26:ILE:HG12	2.12	0.50
1:A:77:GLU:HA	1:A:80:LYS:HG2	1.94	0.50
2:A2:257:CYS:O	2:A2:260:VAL:HG22	2.11	0.50
2:A2:282:LEU:HB2	2:A2:372:LEU:HD22	1.92	0.50
3:AD:12:CYS:HA	39:AD:501:GTP:N2	2.26	0.50
3:AD:324:LYS:NZ	4:AE:222:PRO:O	2.27	0.50
4:AE:263:PRO:HB2	4:AE:264:ARG:NH1	2.27	0.50
4:AE:315:CYS:HG	4:AE:343:PHE:HZ	1.58	0.50
3:AF:3:GLU:HG2	3:AF:130:LEU:HD23	1.93	0.50
3:AF:406:MET:O	3:AF:409:THR:OG1	2.22	0.50
4:AI:102:ASN:HB3	4:AI:105:ARG:HB2	1.93	0.50
4:AI:208:ALA:HA	4:AI:211:ASP:HB2	1.93	0.50
4:AK:245:ASP:O	4:AK:356:ASN:ND2	2.44	0.50
4:AM:338:LYS:HE2	26:N4:71:LEU:HD22	1.94	0.50
5:B3:413:ARG:HH22	8:D3:400:GLN:CB	2.25	0.50
5:B4:263:PHE:HD1	5:B4:266:ARG:HH21	1.60	0.50
5:B5:34:ALA:O	5:B5:37:GLN:HG3	2.11	0.50
5:B7:39:ARG:NH1	5:B8:293:LEU:HD13	2.26	0.50
5:B7:118:THR:HG21	8:D8:410:MET:HB3	1.94	0.50
3:BD:3:GLU:OE2	3:BD:127:CYS:HB2	2.12	0.50
3:BF:374:ILE:HA	3:BF:377:LEU:HD13	1.94	0.50
4:BG:5:ILE:HD13	4:BG:64:ARG:HB3	1.92	0.50
4:BI:88:HIS:CE1	4:CI:280:LYS:HZ1	2.29	0.50
4:BI:318:LEU:O	4:BI:375:VAL:HA	2.12	0.50
4:BK:54:SER:N	4:BK:62:VAL:O	2.44	0.50
3:BL:4:ILE:HB	3:BL:50:TYR:HE1	1.76	0.50
3:BL:152:ILE:O	3:BL:156:ARG:HG2	2.11	0.50
7:C3:107:PHE:HE1	7:C4:361:ILE:HG12	1.76	0.50
7:C3:368:THR:O	7:C3:372:ILE:HG13	2.12	0.50
7:C4:217:LYS:HA	7:C4:220:LEU:HD12	1.94	0.50
7:C4:419:ARG:NE	7:C4:423:GLU:OE2	2.43	0.50
7:C8:281:VAL:HA	7:C9:398:THR:HG21	1.94	0.50
7:C9:376:GLU:O	7:C9:379:ILE:N	2.45	0.50
7:C9:406:ARG:NH2	7:C9:412:CYS:H	2.08	0.50
3:CB:19:LYS:NZ	3:CB:223:GLY:O	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CB:286:VAL:O	3:CB:290:THR:OG1	2.17	0.50
3:CD:72:THR:O	3:CD:75:SER:OG	2.23	0.50
4:CG:333:ALA:HA	4:CG:336:LYS:HD2	1.93	0.50
4:CK:22:GLU:O	4:CK:26:LEU:HD23	2.11	0.50
4:CM:7:ILE:HB	4:CM:137:ILE:HA	1.93	0.50
4:CM:264:ARG:HG2	4:CM:265:ILE:H	1.77	0.50
7:Ca:185:LEU:O	7:Ca:188:THR:OG1	2.28	0.50
7:Ca:213:ASP:N	7:Ca:213:ASP:OD1	2.44	0.50
7:Ca:426:GLU:O	7:Ca:430:THR:HG23	2.12	0.50
7:Cb:405:ARG:HH12	10:E2:5:ARG:HH22	1.58	0.50
7:Cc:139:GLN:O	7:Cc:143:THR:HG23	2.11	0.50
7:Cc:152:ASP:O	7:Cc:155:PHE:HB3	2.12	0.50
8:D3:291:GLU:O	8:D3:295:LEU:HG	2.12	0.50
8:D7:159:ARG:O	8:D7:161:ARG:N	2.40	0.50
8:D7:263:ASP:HA	8:D7:266:LEU:HD12	1.94	0.50
8:D8:135:LYS:NZ	8:D8:197:ALA:HB3	2.27	0.50
8:D8:215:TRP:O	8:D8:219:VAL:HG23	2.11	0.50
8:D9:54:ASP:OD1	8:D9:55:GLU:N	2.44	0.50
4:DC:188:ILE:HG22	4:DC:421:ALA:HB1	1.94	0.50
3:DF:31:ASP:OD1	3:DF:35:THR:N	2.44	0.50
3:DF:130:LEU:O	3:DF:162:ARG:NH1	2.45	0.50
3:DH:114:ASP:N	3:DH:114:ASP:OD1	2.44	0.50
3:DH:240:LEU:HD22	3:DH:248:ALA:HB1	1.92	0.50
4:DK:154:MET:HE1	4:DK:197:HIS:HB2	1.94	0.50
3:DL:218:THR:OG1	13:G3:281:ARG:NH2	2.45	0.50
3:EB:82:GLY:HA2	3:EB:85:PHE:HD2	1.77	0.50
4:EC:320:ARG:HD3	4:EC:360:PRO:HG3	1.94	0.50
3:ED:253:LEU:HB3	3:ED:257:MET:HE1	1.92	0.50
4:EG:47:ASP:HB3	4:EG:49:PHE:CE2	2.47	0.50
3:EJ:275:SER:H	3:EJ:278:SER:HG	1.60	0.50
4:EK:39:ASP:HA	13:G3:421:ARG:NH1	2.26	0.50
4:EK:185:TYR:HA	4:EK:395:PHE:HE1	1.76	0.50
3:EL:240:LEU:HD22	3:EL:248:ALA:HB1	1.93	0.50
9:F:381:GLN:OE1	9:F:381:GLN:N	2.41	0.50
11:F1:445:VAL:HG13	11:F1:448:LYS:HE3	1.94	0.50
11:F4:266:ASN:O	11:F4:270:LEU:HB2	2.12	0.50
11:F7:144:GLN:NE2	11:Fc:140:ARG:HH11	2.08	0.50
11:F7:396:LEU:HB3	11:F7:416:LEU:HD21	1.92	0.50
4:FA:51:THR:HG23	4:FA:52:PHE:HD2	1.77	0.50
4:FE:320:ARG:HD3	4:FE:360:PRO:HG3	1.94	0.50
4:FG:22:GLU:HG2	4:FG:83:TYR:HE2	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FI:260:VAL:HG23	4:FI:265:ILE:O	2.12	0.50
4:FI:320:ARG:HD3	4:FI:360:PRO:HG3	1.93	0.50
3:FJ:131:GLN:HB3	3:FJ:163:ILE:HD12	1.94	0.50
4:FK:208:ALA:N	4:FK:304:LYS:HZ1	2.08	0.50
4:FK:320:ARG:N	4:FK:374:ALA:O	2.43	0.50
11:Fb:250:LEU:HD11	11:Fb:303:ASN:HB3	1.94	0.50
11:Fb:345:ALA:O	11:Fb:348:SER:OG	2.29	0.50
11:Fc:465:ASP:O	11:Fc:469:CYS:HB2	2.12	0.50
11:Fk:237:ASP:O	11:Fk:241:ARG:HG3	2.11	0.50
12:G:180:ARG:HH22	4:GK:279:GLU:HB3	1.76	0.50
14:G4:26:TRP:CE2	14:G4:35:LEU:HD12	2.46	0.50
14:G4:295:PRO:HA	14:G4:298:ILE:HG13	1.93	0.50
14:G6:91:ASP:OD2	14:G6:93:ARG:NE	2.42	0.50
14:G6:109:GLU:OE1	14:G6:109:GLU:N	2.38	0.50
3:GB:173:PRO:HD3	3:GB:203:ASP:OD1	2.11	0.50
3:GB:302:ALA:HB1	3:GB:377:LEU:HD11	1.94	0.50
3:GB:326:VAL:HA	3:GB:329:GLN:HE21	1.76	0.50
4:GC:5:ILE:HD13	4:GC:64:ARG:HB3	1.92	0.50
4:GC:93:ILE:HG13	4:GC:118:VAL:HG12	1.93	0.50
3:GJ:111:GLU:HG2	3:GJ:112:LEU:HD22	1.94	0.50
3:GL:54:ALA:HA	3:HL:283:ALA:HB2	1.94	0.50
3:GL:58:LYS:HZ3	3:HL:280:GLN:HB2	1.77	0.50
15:H1:303:SER:HA	15:H1:306:ARG:HG2	1.92	0.50
15:H4:215:ARG:NH1	15:H4:216:LYS:HB3	2.27	0.50
4:HA:115:VAL:HA	4:HA:118:VAL:HG22	1.92	0.50
4:HC:272:TYR:CZ	4:HC:274:PRO:HG2	2.47	0.50
3:HD:324:LYS:HD3	4:HE:210:TYR:HE1	1.76	0.50
4:HE:217:LEU:HD13	4:HE:277:SER:HA	1.94	0.50
3:HF:258:VAL:HA	3:HF:263:LEU:HD23	1.94	0.50
4:HG:9:VAL:HG11	4:HG:150:ALA:HB2	1.94	0.50
4:HG:36:MET:HE3	4:HG:61:HIS:HE1	1.76	0.50
4:HI:52:PHE:HZ	4:HI:239:THR:HB	1.75	0.50
4:HI:190:THR:O	4:HI:194:THR:HG23	2.12	0.50
3:HL:70:PRO:HA	3:HL:73:MET:HE3	1.94	0.50
3:HL:380:ARG:O	3:HL:384:GLN:HG2	2.12	0.50
4:IA:271:THR:O	4:IA:377:MET:N	2.28	0.50
4:IC:399:TYR:HE2	4:IC:418:PHE:HB3	1.77	0.50
4:IE:320:ARG:HH21	4:IE:358:GLN:HG3	1.77	0.50
4:IE:391:LEU:O	4:IE:394:LYS:HB2	2.12	0.50
4:IG:36:MET:HE3	4:IG:61:HIS:CE1	2.47	0.50
3:IH:41:ASP:N	3:IH:41:ASP:OD1	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:IK:185:TYR:CG	4:IK:408:TYR:HE2	2.30	0.50
4:IM:196:GLU:HG2	4:IM:197:HIS:ND1	2.27	0.50
4:JA:116:ASP:N	4:JA:116:ASP:OD1	2.42	0.50
4:JA:392:ASP:OD1	4:JA:393:HIS:N	2.44	0.50
3:JD:324:LYS:HD2	4:JE:221:ARG:HA	1.93	0.50
4:JE:141:PHE:HB2	4:JE:173:PRO:HD3	1.94	0.50
3:JF:12:CYS:SG	39:JF:501:GTP:H5'	2.52	0.50
4:JG:287:SER:OG	4:JG:290:GLU:OE1	2.26	0.50
3:JH:91:VAL:HG11	3:JH:116:VAL:HG12	1.94	0.50
3:JH:155:ILE:HA	3:JH:158:GLU:HB2	1.94	0.50
3:JH:276:ARG:NH2	20:K:20:TYR:HB3	2.27	0.50
4:JI:392:ASP:OD1	4:JI:393:HIS:N	2.44	0.50
3:JL:58:LYS:HE3	3:KL:281:TYR:HA	1.94	0.50
21:K3:138:ALA:HA	21:K3:252:LEU:HD11	1.94	0.50
21:K3:384:LYS:HE3	4:LI:334:THR:HA	1.94	0.50
4:KA:119:LEU:HD23	4:KA:122:ILE:HD12	1.92	0.50
4:KC:139:HIS:CD2	4:KC:170:ALA:HB2	2.46	0.50
4:KE:263:PRO:HB2	4:KE:264:ARG:CZ	2.41	0.50
3:KF:1:MET:HA	4:KG:96:LYS:HD2	1.94	0.50
3:KF:8:GLN:HE22	3:KF:17:GLY:H	1.60	0.50
3:KF:32:PRO:O	3:KF:83:GLN:NE2	2.34	0.50
3:KJ:309:ARG:HH22	3:KJ:344:TRP:HZ3	1.59	0.50
4:KK:119:LEU:HD23	4:KK:122:ILE:HD11	1.93	0.50
4:KK:320:ARG:HG2	4:KK:358:GLN:O	2.12	0.50
4:LC:83:TYR:HB3	4:LC:86:LEU:HD12	1.92	0.50
4:LE:205:ASP:OD2	4:LE:304:LYS:NZ	2.34	0.50
4:LE:384:ILE:HB	4:LE:388:TRP:HZ3	1.77	0.50
4:LG:423:GLU:HA	4:LG:426:ALA:HB3	1.94	0.50
4:LI:139:HIS:CD2	4:LI:170:ALA:HB2	2.47	0.50
3:LJ:218:THR:OG1	3:LJ:219:THR:N	2.44	0.50
3:LL:2:ARG:HA	3:LL:129:CYS:O	2.11	0.50
3:MB:130:LEU:HB2	3:MB:162:ARG:NH1	2.27	0.50
3:MB:268:PRO:HD2	3:MB:301:ALA:HB2	1.93	0.50
4:ME:318:LEU:HB2	4:ME:376:CYS:HB3	1.92	0.50
3:MF:309:ARG:N	3:MF:372:THR:OG1	2.26	0.50
4:MG:136:LEU:HD12	4:MG:169:PHE:CE1	2.47	0.50
4:MI:117:LEU:HD11	26:N3:90:THR:HA	1.94	0.50
3:ML:31:ASP:OD2	3:ML:35:THR:OG1	2.25	0.50
4:MM:166:LYS:N	4:MM:199:ASP:OD2	2.45	0.50
26:N1:159:ARG:HB2	26:N1:162:ASP:HA	1.93	0.50
26:N2:77:THR:HG23	26:N2:79:TYR:H	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:N4:79:TYR:HE1	26:N4:87:LYS:HG3	1.76	0.50
4:NA:265:ILE:HD12	4:NA:432:TYR:CE1	2.47	0.50
4:NE:176:GLN:NE2	4:NE:207:GLU:OE2	2.45	0.50
4:NE:269:LEU:N	4:NE:379:SER:O	2.30	0.50
4:NE:392:ASP:OD1	4:NE:393:HIS:N	2.45	0.50
3:NH:139:LEU:N	3:NH:168:SER:OG	2.43	0.50
4:NI:224:TYR:HE2	39:NI:501:GTP:C6	2.29	0.50
3:NL:286:VAL:HG21	3:NL:325:GLU:HG3	1.93	0.50
4:OA:333:ALA:HA	4:OA:336:LYS:HD2	1.94	0.50
4:OA:434:GLU:HA	4:OA:437:VAL:HG22	1.94	0.50
3:OB:245:GLN:HE22	4:OC:15:GLN:NE2	2.10	0.50
4:OC:32:PRO:O	4:OC:85:GLN:NE2	2.45	0.50
3:OD:2:ARG:HB3	3:OD:131:GLN:NE2	2.26	0.50
3:OH:41:ASP:OD1	3:OH:41:ASP:N	2.44	0.50
3:OH:286:VAL:HG21	3:OH:325:GLU:HG3	1.93	0.50
4:OK:51:THR:HG23	4:OK:52:PHE:CD2	2.46	0.50
3:OL:77:ARG:HD3	3:OL:90:PHE:HE2	1.76	0.50
29:P3:211:THR:HG22	29:P3:222:LEU:HD22	1.93	0.50
29:P3:370:ILE:HG21	29:P3:401:PHE:CE2	2.46	0.50
4:PA:22:GLU:HG2	4:PA:83:TYR:HE2	1.77	0.50
4:PA:230:LEU:O	4:PA:234:ILE:HG12	2.12	0.50
4:PA:319:TYR:N	4:PA:354:GLY:O	2.45	0.50
4:PA:331:ALA:O	4:PA:334:THR:OG1	2.25	0.50
4:PC:220:GLU:O	4:PC:221:ARG:NE	2.43	0.50
4:PC:408:TYR:HD2	4:PC:418:PHE:HZ	1.58	0.50
4:PE:15:GLN:OE1	39:PE:501:GTP:N1	2.44	0.50
3:PH:81:PHE:O	3:PH:84:ILE:HG22	2.11	0.50
4:PK:262:TYR:OH	3:PL:391:ARG:O	2.29	0.50
4:PM:50:ASN:OD1	4:PM:51:THR:N	2.45	0.50
4:PM:72:PRO:HA	4:PM:75:VAL:HG12	1.92	0.50
4:QC:115:VAL:HA	4:QC:118:VAL:HG22	1.92	0.50
39:QD:502:GTP:O1B	4:QE:145:THR:OG1	2.28	0.50
3:QH:155:ILE:HA	3:QH:158:GLU:HG2	1.93	0.50
3:QH:350:LYS:HE3	4:QI:181:VAL:H	1.76	0.50
4:QK:262:TYR:HE1	3:QL:393:ALA:HA	1.76	0.50
3:QL:378:PHE:CD1	3:QL:419:VAL:HG22	2.47	0.50
3:RD:180:VAL:HG22	3:RD:183:TYR:HB2	1.92	0.50
3:RH:385:PHE:HZ	3:RH:408:PHE:HB3	1.77	0.50
3:RH:415:MET:O	3:RH:419:VAL:HG23	2.11	0.50
4:RI:261:PRO:HA	3:RJ:394:PHE:CE1	2.47	0.50
4:RK:50:ASN:OD1	4:RK:51:THR:N	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:SB:149:THR:HB	3:SB:191:GLN:OE1	2.11	0.50
3:SB:246:LEU:HD13	3:SB:354:CYS:HB2	1.93	0.50
3:SB:305:PRO:HB2	3:SB:310:TYR:HE1	1.76	0.50
4:SC:11:GLN:HG3	39:SC:501:GTP:O1B	2.12	0.50
4:SC:207:GLU:HB2	4:SC:304:LYS:HZ1	1.77	0.50
3:SD:70:PRO:HA	3:SD:73:MET:HE3	1.93	0.50
4:SE:32:PRO:O	4:SE:85:GLN:NE2	2.45	0.50
3:SF:151:LEU:HA	3:SF:154:LYS:HZ3	1.77	0.50
3:SF:345:ILE:HD11	4:SG:181:VAL:HG11	1.93	0.50
3:SH:60:VAL:HG23	3:SH:86:ARG:HH11	1.77	0.50
3:TF:52:ASN:ND2	3:TF:62:ARG:HD3	2.27	0.50
3:TH:167:PHE:CD1	3:TH:233:MET:HE3	2.46	0.50
3:TJ:318:ARG:C	3:TJ:321:MET:HE1	2.37	0.50
3:TJ:412:GLU:HA	3:TJ:415:MET:HE2	1.92	0.50
3:TL:3:GLU:OE2	3:TL:127:CYS:HB2	2.12	0.50
4:TM:2:ARG:HA	4:TM:133:GLN:HE22	1.75	0.50
3:TN:267:MET:HB2	3:TN:301:ALA:CB	2.41	0.50
4:UE:208:ALA:H	4:UE:304:LYS:NZ	2.10	0.50
3:UF:2:ARG:HA	3:UF:129:CYS:O	2.11	0.50
4:UG:119:LEU:HD23	4:UG:122:ILE:HD12	1.94	0.50
4:UI:84:ARG:HA	4:UI:87:PHE:HD2	1.76	0.50
4:UI:207:GLU:HB2	4:UI:304:LYS:NZ	2.26	0.50
4:UI:265:ILE:HD12	4:UI:432:TYR:CE1	2.47	0.50
3:UJ:46:ARG:CZ	3:UJ:243:PRO:HD3	2.40	0.50
3:VF:386:THR:O	3:VF:390:ARG:N	2.44	0.50
4:VG:54:SER:N	4:VG:62:VAL:O	2.45	0.50
4:WA:50:ASN:O	4:WA:64:ARG:NH1	2.45	0.50
3:WD:295:ASP:HB2	3:WD:298:ASN:HB2	1.94	0.50
3:WL:77:ARG:HD3	3:WL:90:PHE:HE2	1.76	0.50
34:XA:106:SER:HB2	34:XA:109:GLN:OE1	2.12	0.50
35:XH:145:ASN:HB3	35:XH:148:ILE:HD12	1.94	0.50
35:XK:201:LYS:HB3	35:XK:203:GLU:HG3	1.94	0.50
37:YA:18:PHE:HA	37:YA:21:GLN:HB2	1.94	0.50
37:YF:159:PRO:HB2	37:YF:161:LYS:HG2	1.93	0.50
37:YJ:22:GLN:O	37:YJ:26:ILE:HG12	2.11	0.50
37:YL:140:LEU:O	37:YL:144:VAL:HG23	2.11	0.50
37:YL:145:LEU:HG	37:YL:149:LYS:HE2	1.94	0.50
37:YS:4:VAL:HG11	37:YS:83:PHE:CE2	2.46	0.50
37:YS:117:TYR:CD1	37:YS:118:PRO:HA	2.47	0.50
36:Z:319:ARG:O	36:Z:323:ILE:HG12	2.12	0.50
36:Z:339:ASP:OD1	36:Z:340:LEU:N	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A1:372:LEU:O	2:A1:376:ILE:HG12	2.12	0.50
2:A3:294:LYS:HE2	7:C4:183:ARG:HD3	1.93	0.50
3:AB:252:LYS:HZ2	4:AC:144:GLY:HA3	1.76	0.50
3:AD:378:PHE:CD1	3:AD:419:VAL:HG22	2.47	0.50
4:AE:287:SER:OG	4:AE:290:GLU:OE1	2.25	0.50
3:AF:317:PHE:O	3:AF:354:CYS:N	2.44	0.50
4:AG:342:GLN:HG2	4:AG:342:GLN:O	2.12	0.50
3:AH:46:ARG:HH22	4:AI:73:THR:HA	1.76	0.50
3:AH:81:PHE:O	3:AH:84:ILE:HG22	2.11	0.50
4:AI:88:HIS:CE1	4:AI:121:ARG:HH22	2.29	0.50
3:AJ:12:CYS:HA	39:AJ:501:GTP:HN22	1.75	0.50
4:AK:220:GLU:O	4:AK:221:ARG:NE	2.42	0.50
4:AK:272:TYR:CZ	4:AK:274:PRO:HG2	2.46	0.50
3:AL:28:HIS:ND1	3:AL:43:GLN:HB2	2.27	0.50
4:AM:46:ASP:HA	4:AM:50:ASN:HB3	1.93	0.50
4:AM:214:ARG:O	26:N4:89:LYS:NZ	2.33	0.50
5:B6:204:ASN:HB3	5:B6:207:ARG:NH2	2.24	0.50
5:B8:43:ARG:O	5:B8:46:ARG:HG2	2.11	0.50
4:BE:187:SER:O	4:BE:191:THR:HG23	2.12	0.50
3:BF:12:CYS:SG	39:BF:501:GTP:H5'	2.52	0.50
3:BF:40:SER:HB2	3:BF:43:GLN:CD	2.37	0.50
4:BG:113:GLU:OE1	4:BG:113:GLU:N	2.44	0.50
4:BG:115:VAL:HA	4:BG:118:VAL:HG22	1.94	0.50
4:BG:316:CYS:HB3	4:BG:378:LEU:HB3	1.94	0.50
3:BH:65:LEU:HD21	3:BH:73:MET:HG2	1.94	0.50
3:BH:117:LEU:HA	3:BH:120:VAL:HG22	1.93	0.50
3:BJ:345:ILE:HD12	4:BK:398:MET:HE3	1.94	0.50
4:BK:8:HIS:CE1	4:BK:138:PHE:CD2	3.00	0.50
4:BK:123:ARG:NH1	4:BK:124:LYS:HB3	2.27	0.50
3:BL:12:CYS:SG	39:BL:501:GTP:H5'	2.52	0.50
3:BL:215:LEU:HD11	3:BL:228:LEU:HD11	1.94	0.50
3:BL:323:MET:SD	3:BL:323:MET:N	2.85	0.50
4:BM:35:GLN:HG2	4:BM:59:GLY:O	2.11	0.50
4:BM:107:HIS:HA	4:BM:152:LEU:HD23	1.93	0.50
4:BM:252:LEU:O	4:BM:256:GLN:N	2.40	0.50
6:C:101:TYR:HD1	6:C:105:GLN:HE22	1.60	0.50
6:C:376:THR:HG23	6:C:382:GLY:HA2	1.94	0.50
7:C2:429:GLU:O	7:C2:432:GLN:HG3	2.12	0.50
7:C4:386:ILE:HA	7:C4:389:LYS:HE2	1.93	0.50
7:C9:414:ASP:OD1	7:C9:415:MET:N	2.45	0.50
3:CB:3:GLU:HG2	3:CB:130:LEU:HD13	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CB:12:CYS:HB3	39:CB:501:GTP:H5'	1.93	0.50
4:CC:79:ARG:HE	4:CC:92:LEU:HD23	1.76	0.50
4:CE:24:TYR:O	4:CE:28:HIS:ND1	2.25	0.50
4:CE:54:SER:N	4:CE:62:VAL:O	2.45	0.50
4:CE:217:LEU:HB3	4:CE:219:ILE:HG12	1.92	0.50
4:CE:401:LYS:C	4:CE:402:ARG:HD3	2.37	0.50
3:CF:170:VAL:N	3:CF:202:ILE:O	2.32	0.50
3:CF:320:ARG:H	3:CF:363:MET:HE1	1.77	0.50
3:CH:55:THR:HG23	3:DF:283:ALA:HA	1.93	0.50
4:CI:392:ASP:OD1	4:CI:393:HIS:N	2.44	0.50
3:CJ:189:VAL:HA	3:CJ:192:LEU:HB3	1.94	0.50
3:CL:282:ARG:NH2	3:CL:292:GLN:OE1	2.33	0.50
3:CL:362:LYS:HG3	3:CL:363:MET:HG2	1.94	0.50
4:CM:224:TYR:CE1	39:CM:501:GTP:C5	2.97	0.50
4:CM:229:ARG:NH2	4:CM:367:ASP:H	2.09	0.50
7:Cc:378:THR:O	7:Cc:381:SER:OG	2.28	0.50
8:D2:263:ASP:HA	8:D2:266:LEU:HD12	1.92	0.50
8:D7:162:ARG:NH1	8:D7:168:VAL:H	2.09	0.50
8:D9:319:GLN:HB3	8:D9:323:ARG:HH12	1.76	0.50
4:DA:161:TYR:O	4:DA:166:LYS:NZ	2.43	0.50
4:DA:196:GLU:HG2	4:DA:197:HIS:ND1	2.27	0.50
3:DD:12:CYS:SG	3:DD:13:GLY:N	2.84	0.50
3:DD:172:SER:HB3	3:DD:175:VAL:O	2.11	0.50
3:DD:183:TYR:CD1	3:DD:388:MET:HE3	2.47	0.50
4:DE:84:ARG:HA	4:DE:87:PHE:CD2	2.47	0.50
10:E1:57:ASP:OD1	10:E1:58:ALA:N	2.45	0.50
4:EA:51:THR:HG23	4:EA:52:PHE:CD2	2.47	0.50
4:EA:263:PRO:HB2	4:EA:264:ARG:NH1	2.26	0.50
3:EB:324:LYS:HD3	4:EC:210:TYR:HE1	1.77	0.50
4:EC:216:ASN:HB2	4:EC:276:ILE:HD12	1.93	0.50
4:EG:161:TYR:O	4:EG:166:LYS:NZ	2.27	0.50
4:EG:272:TYR:HD2	4:EG:275:VAL:HG13	1.76	0.50
3:EH:118:ASP:OD1	3:EH:121:ARG:NH1	2.45	0.50
4:EI:273:ALA:N	4:EI:377:MET:HE1	2.27	0.50
3:EJ:114:ASP:OD1	3:EJ:115:SER:N	2.44	0.50
4:EK:154:MET:HE1	4:EK:197:HIS:HB2	1.94	0.50
3:EL:322:SER:N	3:EL:325:GLU:OE2	2.43	0.50
11:F5:171:ASP:O	11:F5:175:ARG:HG2	2.12	0.50
11:F6:184:VAL:O	11:F6:187:PRO:HD2	2.12	0.50
3:FD:249:ASP:O	3:FD:253:LEU:HG	2.12	0.50
4:FG:165:SER:C	4:FG:166:LYS:HD2	2.37	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FJ:111:GLU:HG2	3:FJ:112:LEU:HD12	1.94	0.50
11:Fc:296:TRP:C	11:Fc:296:TRP:CD1	2.89	0.50
11:Fe:297:ALA:O	11:Fe:300:SER:OG	2.30	0.50
11:Ff:226:GLN:OE1	11:Ff:230:ARG:NH2	2.45	0.50
11:Fk:246:ALA:O	11:Fk:249:SER:OG	2.27	0.50
11:Fl:379:GLU:HA	11:Fl:382:ILE:HB	1.94	0.50
13:G1:207:ILE:HD12	13:G1:208:PRO:HD2	1.93	0.50
13:G3:280:GLU:CD	13:G3:283:ASN:HD22	2.19	0.50
3:GB:114:ASP:OD1	3:GB:115:SER:N	2.44	0.50
4:GC:154:MET:HE1	4:GC:197:HIS:HB2	1.94	0.50
4:GC:287:SER:OG	4:GC:290:GLU:OE1	2.24	0.50
4:GC:324:VAL:HG21	3:GD:219:THR:HG22	1.93	0.50
3:GJ:330:MET:HA	3:GJ:333:VAL:HG12	1.93	0.50
15:H1:257:PRO:HD2	15:H1:259:CYS:SG	2.52	0.50
15:H2:212:LEU:HD23	15:H2:212:LEU:H	1.76	0.50
15:H6:281:LEU:HB3	15:H6:304:THR:HG21	1.93	0.50
4:HA:52:PHE:HZ	4:HA:239:THR:HB	1.77	0.50
4:HA:176:GLN:NE2	4:HA:207:GLU:OE2	2.45	0.50
3:HB:64:VAL:HG21	3:HB:120:VAL:HG12	1.93	0.50
4:HE:172:TYR:N	4:HE:204:VAL:O	2.38	0.50
4:HG:398:MET:SD	4:HG:401:LYS:HE2	2.51	0.50
4:HG:420:GLU:HA	4:HG:423:GLU:OE2	2.12	0.50
4:HI:319:TYR:HB2	4:HI:355:ILE:HG22	1.92	0.50
4:HK:207:GLU:HB2	4:HK:304:LYS:HZ1	1.76	0.50
4:HK:392:ASP:OD1	4:HK:393:HIS:N	2.44	0.50
3:HL:420:SER:O	3:HL:424:GLN:HG3	2.11	0.50
16:I:89:MET:HB3	16:I:93:ARG:HH21	1.77	0.50
4:IA:301:GLN:N	4:IA:301:GLN:OE1	2.45	0.50
3:IB:176:SER:O	3:IB:178:THR:N	2.45	0.50
3:IB:285:THR:O	3:IB:288:GLU:HG3	2.12	0.50
3:ID:257:MET:HG3	3:ID:258:VAL:HG23	1.94	0.50
4:IE:274:PRO:HG3	4:IE:374:ALA:HA	1.93	0.50
4:IE:316:CYS:O	4:IE:378:LEU:N	2.40	0.50
3:IF:299:MET:SD	3:IF:301:ALA:N	2.77	0.50
3:IJ:186:THR:HG23	3:IJ:385:PHE:CZ	2.47	0.50
3:IJ:193:VAL:HG22	3:IJ:262:ARG:NH2	2.27	0.50
3:IL:324:LYS:HE3	4:IM:221:ARG:HA	1.92	0.50
4:IM:320:ARG:HA	4:IM:356:ASN:HB3	1.94	0.50
19:J1:95:GLU:OE2	19:J1:119:TYR:OH	2.29	0.50
19:J3:87:ILE:O	19:J3:91:ILE:HD12	2.12	0.50
19:J3:167:MET:HA	19:J3:177:ASN:N	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JB:256:ASN:HB3	3:JB:350:LYS:HG3	1.93	0.50
3:JD:32:PRO:O	3:JD:83:GLN:NE2	2.35	0.50
3:JF:2:ARG:HA	3:JF:129:CYS:O	2.12	0.50
3:JH:7:LEU:HD13	3:JH:64:VAL:HB	1.93	0.50
3:JH:81:PHE:O	3:JH:84:ILE:HG22	2.10	0.50
3:JH:235:GLY:O	3:JH:238:THR:OG1	2.23	0.50
3:JH:324:LYS:HD3	4:JI:210:TYR:HE1	1.76	0.50
4:JI:75:VAL:HG23	4:JI:92:LEU:HD12	1.93	0.50
4:JI:213:CYS:O	4:JI:218:ASP:N	2.44	0.50
3:JJ:214:THR:HG21	3:JJ:273:LEU:HB3	1.94	0.50
3:JJ:269:GLY:N	3:JJ:367:PHE:O	2.45	0.50
4:JK:311:LYS:N	4:JK:382:THR:OG1	2.44	0.50
20:K:94:CYS:N	20:K:115:SER:O	2.35	0.50
21:K2:189:GLU:CG	21:K2:190:LYS:H	2.25	0.50
21:K2:195:ALA:HA	21:K2:198:LEU:HD12	1.93	0.50
21:K3:357:MET:O	21:K3:360:THR:OG1	2.20	0.50
4:KA:104:ALA:O	4:KA:108:TYR:N	2.42	0.50
3:KD:139:LEU:HD21	3:KD:170:VAL:HG22	1.94	0.50
4:KE:6:SER:HA	4:KE:136:LEU:HB2	1.94	0.50
4:KI:36:MET:HE3	4:KI:61:HIS:NE2	2.27	0.50
3:KJ:176:SER:O	3:KJ:178:THR:N	2.45	0.50
4:KK:392:ASP:OD1	4:KK:393:HIS:N	2.45	0.50
22:L2:226:ARG:O	22:L2:230:LEU:HG	2.12	0.50
22:L3:185:MET:O	22:L3:186:LYS:HG3	2.12	0.50
4:LA:216:ASN:ND2	4:LA:275:VAL:O	2.45	0.50
3:LB:182:PRO:HA	3:LB:381:ILE:HD11	1.93	0.50
3:LB:258:VAL:HG23	3:LB:263:LEU:HB2	1.93	0.50
3:LB:360:GLY:HA3	27:Q:137:GLY:HA3	1.94	0.50
4:LC:99:ALA:HA	4:LC:105:ARG:HE	1.77	0.50
4:LC:164:LYS:HZ1	28:O1:22:TRP:CG	2.29	0.50
4:LC:262:TYR:HE1	3:LD:393:ALA:HA	1.76	0.50
4:LC:317:MET:HE1	4:LC:351:PHE:HB3	1.93	0.50
4:LE:116:ASP:OD1	4:LE:117:LEU:N	2.45	0.50
4:LE:406:HIS:HA	4:LE:409:VAL:HG22	1.93	0.50
4:LK:331:ALA:O	4:LK:334:THR:OG1	2.29	0.50
3:LL:285:THR:O	3:LL:288:GLU:HG3	2.12	0.50
24:M1:56:TYR:HB2	24:M1:89:PHE:CD2	2.41	0.50
4:MC:139:HIS:CD2	4:MC:170:ALA:HB2	2.46	0.50
3:MD:378:PHE:HA	3:MD:381:ILE:HB	1.94	0.50
4:ME:70:LEU:HA	4:ME:95:GLY:HA3	1.93	0.50
4:MG:68:VAL:HG12	4:MG:93:ILE:HB	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MJ:13:GLY:HA2	3:MJ:16:ILE:HB	1.94	0.50
4:MK:258:ASN:HA	3:ML:394:PHE:CE2	2.46	0.50
4:NA:264:ARG:O	4:NA:266:HIS:ND1	2.38	0.50
4:NE:196:GLU:OE1	4:NE:196:GLU:N	2.41	0.50
4:NE:423:GLU:HA	4:NE:426:ALA:HB3	1.94	0.50
4:NI:188:ILE:HG22	4:NI:421:ALA:HB1	1.94	0.50
28:O2:16:PRO:HA	28:O2:19:LEU:HB2	1.92	0.50
4:OA:329:ASN:OD1	4:OA:330:ALA:N	2.44	0.50
3:OB:11:GLN:HG3	39:OB:501:GTP:PA	2.52	0.50
3:OB:176:SER:O	3:OB:178:THR:N	2.45	0.50
3:OD:309:ARG:HH21	3:OD:426:GLN:HG2	1.77	0.50
4:OG:50:ASN:OD1	4:OG:51:THR:N	2.44	0.50
3:OH:141:GLY:HA3	39:OH:501:GTP:H5"	1.93	0.50
4:OK:411:GLU:OE2	4:OK:413:MET:HE1	2.12	0.50
27:P:204:SER:O	27:P:207:LYS:HG2	2.12	0.50
29:P1:172:GLU:HG2	29:P1:187:LEU:HB2	1.93	0.50
29:P2:401:PHE:C	29:P2:409:MET:HE2	2.37	0.50
29:P3:231:LYS:HB3	29:P3:241:ASP:HB3	1.93	0.50
3:PB:378:PHE:CD1	3:PB:419:VAL:HG22	2.47	0.50
4:PE:49:PHE:O	4:PE:53:PHE:N	2.42	0.50
4:PE:187:SER:O	4:PE:190:THR:OG1	2.23	0.50
4:PE:214:ARG:NH1	4:PE:215:ARG:HG3	2.27	0.50
4:PE:397:LEU:HD12	4:PE:398:MET:N	2.27	0.50
4:PG:1:MET:O	4:PG:131:GLY:HA3	2.11	0.50
3:PH:214:THR:HG23	3:PH:215:LEU:HD12	1.92	0.50
4:PI:30:ILE:HA	4:PI:36:MET:HE1	1.94	0.50
4:PI:236:SER:O	4:PI:243:ARG:NH2	2.33	0.50
3:PL:117:LEU:HA	3:PL:120:VAL:HG22	1.94	0.50
3:PL:322:SER:N	3:PL:325:GLU:OE2	2.44	0.50
4:PM:154:MET:HA	4:PM:157:LEU:HG	1.94	0.50
30:Q3:1468:LEU:HA	30:Q3:1506:SER:HA	1.94	0.50
4:QC:174:ALA:HB3	4:QC:177:VAL:O	2.12	0.50
3:QD:234:SER:O	3:QD:238:THR:HG23	2.12	0.50
3:QD:269:GLY:N	3:QD:367:PHE:O	2.45	0.50
4:QE:160:ASP:OD1	4:QE:161:TYR:N	2.45	0.50
4:QG:60:LYS:HG2	4:RG:283:HIS:HB2	1.93	0.50
4:QG:321:GLY:HA3	4:QG:372:GLN:O	2.12	0.50
4:QG:346:TRP:CH2	3:QH:390:ARG:HB3	2.47	0.50
3:QH:176:SER:O	3:QH:178:THR:N	2.45	0.50
4:QI:202:PHE:HE1	4:QI:378:LEU:HD11	1.76	0.50
4:QK:52:PHE:HZ	4:QK:239:THR:HB	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:QK:260:VAL:HG23	4:QK:265:ILE:O	2.12	0.50
3:QL:131:GLN:HB3	3:QL:163:ILE:HD12	1.92	0.50
4:QM:281:ALA:HB3	4:QM:370:LYS:HZ3	1.77	0.50
3:RB:47:ILE:HG12	3:RB:59:TYR:CD2	2.47	0.50
4:RC:84:ARG:HG2	4:RC:85:GLN:N	2.27	0.50
3:RD:81:PHE:O	3:RD:84:ILE:HG22	2.11	0.50
3:RF:50:TYR:HB2	3:RF:241:ARG:NH2	2.27	0.50
4:RG:391:LEU:O	4:RG:395:PHE:N	2.44	0.50
3:RH:148:GLY:O	3:RH:152:ILE:HG12	2.12	0.50
3:RH:190:HIS:ND1	3:RH:411:ALA:HA	2.27	0.50
4:RM:308:ARG:HH12	4:RM:342:GLN:H	1.59	0.50
4:SC:42:ILE:HG12	4:SC:55:GLU:OE2	2.12	0.50
4:SC:287:SER:OG	4:SC:290:GLU:OE1	2.21	0.50
4:SC:362:VAL:HG12	4:SC:368:LEU:HG	1.94	0.50
3:SD:141:GLY:HA3	39:SD:501:GTP:H5"	1.94	0.50
3:SF:290:THR:HG21	3:SF:329:GLN:HB3	1.93	0.50
4:SG:70:LEU:HA	4:SG:95:GLY:HA3	1.94	0.50
3:SJ:350:LYS:HE3	4:SK:181:VAL:H	1.77	0.50
4:SK:269:LEU:N	4:SK:379:SER:O	2.38	0.50
3:TD:155:ILE:HA	3:TD:158:GLU:HB2	1.94	0.50
4:TE:161:TYR:HB3	4:TE:164:LYS:NZ	2.27	0.50
3:TF:234:SER:O	3:TF:238:THR:HG23	2.12	0.50
4:TG:140:SER:HA	4:TG:170:ALA:HB1	1.94	0.50
4:TG:331:ALA:O	4:TG:334:THR:OG1	2.27	0.50
3:TH:132:GLY:HA3	3:TH:163:ILE:H	1.76	0.50
3:TH:289:LEU:O	3:TH:293:MET:HG2	2.10	0.50
4:TI:1:MET:HE1	4:TI:51:THR:HB	1.94	0.50
3:TL:318:ARG:C	3:TL:321:MET:HE1	2.37	0.50
4:TM:91:GLN:HG3	4:TM:121:ARG:HH21	1.77	0.50
4:TM:320:ARG:HA	4:TM:356:ASN:HB3	1.93	0.50
3:UB:166:THR:OG1	3:UB:198:GLU:O	2.25	0.50
4:UC:286:LEU:HD11	4:UC:373:ARG:H	1.77	0.50
3:UD:52:ASN:ND2	3:UD:62:ARG:HD3	2.26	0.50
3:UD:127:CYS:SG	3:UD:130:LEU:HD21	2.51	0.50
4:UK:269:LEU:N	4:UK:379:SER:O	2.41	0.50
3:VB:217:LEU:HD11	3:VB:220:PRO:HB3	1.94	0.50
3:VB:406:MET:O	3:VB:409:THR:OG1	2.19	0.50
4:VE:207:GLU:HB2	4:VE:304:LYS:HZ1	1.75	0.50
3:VF:12:CYS:HB3	39:VF:501:GTP:C5'	2.41	0.50
3:VF:81:PHE:O	3:VF:84:ILE:HG22	2.11	0.50
3:VF:419:VAL:HG12	3:VF:423:GLN:HE22	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VH:52:ASN:ND2	3:VH:62:ARG:HD3	2.26	0.50
3:VJ:267:MET:O	3:VJ:369:GLY:N	2.39	0.50
4:VK:50:ASN:OD1	4:VK:51:THR:N	2.44	0.50
33:W:139:LEU:O	33:W:143:THR:HG23	2.12	0.50
4:WA:206:ASN:HA	4:WA:209:ILE:HD12	1.94	0.50
3:WF:28:HIS:ND1	3:WF:43:GLN:HB2	2.26	0.50
3:WF:172:SER:HB3	3:WF:175:VAL:O	2.12	0.50
3:WH:139:LEU:N	3:WH:168:SER:OG	2.45	0.50
3:WH:357:PRO:HB3	3:WH:362:LYS:HA	1.94	0.50
4:WI:6:SER:HA	4:WI:136:LEU:HB2	1.93	0.50
4:WK:139:HIS:CD2	4:WK:170:ALA:HB2	2.47	0.50
4:WK:154:MET:HE3	4:WK:194:THR:HG22	1.93	0.50
4:WK:161:TYR:O	4:WK:166:LYS:NZ	2.35	0.50
4:WK:245:ASP:O	4:WK:356:ASN:ND2	2.44	0.50
3:WL:234:SER:O	3:WL:238:THR:HG23	2.12	0.50
33:X:400:ARG:O	33:X:404:ARG:HG2	2.12	0.50
35:XH:206:GLY:HA2	35:XH:209:ILE:HD12	1.93	0.50
35:XI:182:ASN:ND2	35:XI:231:MET:O	2.44	0.50
35:XJ:232:VAL:HB	35:XJ:235:TYR:HB2	1.92	0.50
35:XM:143:LEU:HD12	35:XM:148:ILE:HG21	1.92	0.50
37:YA:110:LEU:HD13	37:YA:140:LEU:HD13	1.94	0.50
37:YC:29:LEU:HB3	37:YC:33:ARG:NH1	2.27	0.50
37:YI:110:LEU:HD23	37:YI:140:LEU:HD22	1.94	0.50
37:YJ:30:GLU:OE1	37:YJ:33:ARG:NH2	2.45	0.50
37:YK:140:LEU:O	37:YK:144:VAL:N	2.41	0.50
37:YN:91:PRO:HA	37:YN:94:ASN:HB2	1.94	0.50
2:A3:338:ILE:O	2:A3:342:GLN:HG3	2.11	0.50
3:AD:16:ILE:HD13	3:AD:226:ASN:ND2	2.27	0.50
4:AE:49:PHE:O	4:AE:53:PHE:N	2.45	0.50
3:AH:3:GLU:OE2	3:AH:129:CYS:N	2.44	0.50
3:AH:372:THR:HG21	3:AH:426:GLN:HG3	1.93	0.50
4:AI:70:LEU:HA	4:AI:95:GLY:HA3	1.94	0.50
4:AI:273:ALA:HB2	4:AI:295:CYS:HB3	1.93	0.50
3:AJ:165:ASN:OD1	3:AJ:166:THR:N	2.44	0.50
4:AK:186:ASN:HA	4:AK:189:LEU:HD12	1.94	0.50
1:B:397:GLN:O	1:B:401:GLN:HG2	2.12	0.50
5:B1:255:ASP:O	5:B1:259:VAL:HG23	2.12	0.50
5:B2:119:LEU:O	5:B2:122:SER:OG	2.27	0.50
3:BB:32:PRO:C	3:BB:83:GLN:HE21	2.20	0.50
4:BE:88:HIS:CE1	4:BE:121:ARG:NH2	2.75	0.50
4:BE:206:ASN:HA	4:BE:209:ILE:HD12	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BG:1:MET:SD	4:BG:2:ARG:N	2.85	0.50
4:BG:334:THR:O	4:BG:337:THR:OG1	2.22	0.50
3:BH:156:ARG:CZ	3:BH:164:MET:HE3	2.42	0.50
4:BI:132:LEU:HD11	4:BI:135:PHE:HE1	1.77	0.50
3:BJ:226:ASN:HA	3:BJ:229:VAL:HG22	1.94	0.50
3:BJ:385:PHE:HZ	3:BJ:408:PHE:HB3	1.76	0.50
4:BK:207:GLU:HB2	4:BK:304:LYS:HZ1	1.75	0.50
4:BK:427:ALA:HA	4:BK:430:LYS:HG2	1.92	0.50
3:BL:305:PRO:HB2	3:BL:310:TYR:HE1	1.76	0.50
4:BM:287:SER:OG	4:BM:290:GLU:OE1	2.28	0.50
7:C1:149:ARG:HA	7:C1:152:ASP:OD1	2.11	0.50
7:C2:339:GLN:HA	7:C2:342:LYS:HG2	1.93	0.50
7:C6:129:GLN:OE1	7:C6:129:GLN:N	2.40	0.50
7:C7:446:GLN:HE21	7:Cb:283:TYR:HD2	1.59	0.50
4:CC:186:ASN:OD1	4:CC:187:SER:N	2.45	0.50
4:CE:28:HIS:HB2	4:CE:30:ILE:HG12	1.94	0.50
3:CF:31:ASP:OD1	3:CF:35:THR:N	2.44	0.50
4:CG:46:ASP:HA	4:CG:50:ASN:HB3	1.94	0.50
4:CI:256:GLN:HE22	3:CJ:397:TRP:HE1	1.59	0.50
4:CK:108:TYR:O	4:CK:112:LYS:NZ	2.27	0.50
3:CL:8:GLN:HE21	3:CL:21:TRP:HE1	1.60	0.50
3:CL:48:ASN:HA	3:CL:51:TYR:O	2.12	0.50
3:CL:229:VAL:O	3:CL:232:THR:OG1	2.26	0.50
4:CM:263:PRO:C	4:CM:264:ARG:HD3	2.37	0.50
4:CM:287:SER:OG	4:CM:290:GLU:OE1	2.24	0.50
7:Cb:398:THR:HG21	7:Cc:281:VAL:HA	1.93	0.50
6:D:392:ILE:HG23	6:D:393:LEU:H	1.77	0.50
8:D2:210:SER:HA	8:D2:213:MET:HE2	1.93	0.50
8:D2:287:ARG:NH1	8:D2:291:GLU:OE2	2.27	0.50
8:D3:374:GLN:O	8:D3:378:LEU:HG	2.12	0.50
8:D7:121:ILE:HG23	8:D7:208:LYS:HD2	1.94	0.50
8:D7:162:ARG:NH2	8:D7:168:VAL:O	2.30	0.50
8:D9:122:ASP:O	8:D9:125:SER:OG	2.22	0.50
8:D9:174:VAL:O	8:D9:178:LYS:HG3	2.12	0.50
8:D9:176:LEU:O	8:D9:179:GLU:HG2	2.12	0.50
8:D9:266:LEU:O	8:D9:270:ARG:HG3	2.12	0.50
4:DA:208:ALA:H	4:DA:304:LYS:HZ1	1.58	0.50
3:DB:290:THR:HG21	3:DB:329:GLN:HB3	1.94	0.50
4:DC:415:GLU:HA	4:DC:418:PHE:HD2	1.76	0.50
3:DD:316:VAL:HG22	3:DD:352:ALA:HB3	1.93	0.50
4:DE:202:PHE:CE1	4:DE:268:PRO:HD2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DE:333:ALA:HA	4:DE:336:LYS:HD2	1.94	0.50
4:DG:287:SER:N	4:DG:290:GLU:OE2	2.45	0.50
3:DJ:199:THR:N	3:DJ:264:HIS:O	2.45	0.50
4:DK:319:TYR:HE2	4:DK:328:VAL:HG13	1.76	0.50
4:DK:331:ALA:O	4:DK:334:THR:OG1	2.24	0.50
3:DL:289:LEU:HD21	3:DL:363:MET:HB3	1.94	0.50
10:E1:52:THR:OG1	10:E1:53:PRO:HD3	2.11	0.50
4:EA:218:ASP:HB3	15:H1:300:PHE:CG	2.47	0.50
4:EA:315:CYS:N	4:EA:350:GLY:O	2.42	0.50
4:EA:370:LYS:NZ	4:EA:372:GLN:OE1	2.45	0.50
4:EA:430:LYS:HA	4:EA:433:GLU:HG3	1.94	0.50
4:EC:6:SER:HG	4:EC:8:HIS:CE1	2.28	0.50
4:EC:204:VAL:HG23	4:EC:302:MET:HG3	1.92	0.50
4:EC:333:ALA:HA	4:EC:336:LYS:HD2	1.94	0.50
3:ED:313:VAL:HG23	3:ED:349:VAL:HA	1.94	0.50
3:EF:273:LEU:H	3:EF:292:GLN:HE22	1.58	0.50
4:EG:113:GLU:OE1	4:EG:113:GLU:N	2.40	0.50
4:EG:182:VAL:HA	4:EG:185:TYR:HD2	1.76	0.50
4:EG:402:ARG:HB2	4:EG:405:VAL:HG11	1.94	0.50
3:EH:47:ILE:HG13	3:EH:51:TYR:HB2	1.93	0.50
4:EI:52:PHE:HZ	4:EI:239:THR:HB	1.76	0.50
4:EI:329:ASN:OD1	4:EI:330:ALA:N	2.45	0.50
3:EL:12:CYS:HB3	39:EL:501:GTP:H5'	1.94	0.50
3:EL:376:GLU:HA	3:EL:379:LYS:HG2	1.94	0.50
9:F:380:HIS:HB2	9:F:383:ALA:HB3	1.94	0.50
11:F2:100:ASP:HA	11:F2:103:ILE:HD12	1.94	0.50
11:F3:236:ILE:HA	11:F3:239:GLN:HG3	1.94	0.50
11:F4:101:LEU:HG	11:F4:105:ASN:HD21	1.77	0.50
11:F6:160:LEU:HD21	11:F6:250:LEU:HB3	1.93	0.50
11:F8:365:LEU:HD12	11:F8:366:GLN:N	2.26	0.50
4:FA:208:ALA:N	4:FA:304:LYS:HZ1	2.08	0.50
4:FA:287:SER:N	4:FA:290:GLU:OE2	2.45	0.50
3:FB:152:ILE:HD12	3:FB:155:ILE:HD11	1.93	0.50
4:FC:88:HIS:CE1	4:FC:121:ARG:HH22	2.30	0.50
3:FD:249:ASP:OD2	3:FD:251:ARG:NH1	2.45	0.50
3:FD:272:PRO:HA	3:FD:292:GLN:OE1	2.12	0.50
4:FE:144:GLY:N	39:FE:501:GTP:O2B	2.45	0.50
4:FE:201:ALA:H	4:FE:266:HIS:HD2	1.60	0.50
4:FE:272:TYR:CZ	4:FE:274:PRO:HG2	2.47	0.50
3:FF:12:CYS:SG	3:FF:13:GLY:N	2.84	0.50
4:FG:104:ALA:HA	4:FG:107:HIS:HB3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FG:208:ALA:N	4:FG:304:LYS:HZ1	2.04	0.50
4:FG:287:SER:N	4:FG:290:GLU:OE2	2.45	0.50
4:FG:320:ARG:N	4:FG:374:ALA:O	2.40	0.50
4:FI:271:THR:HB	4:FI:377:MET:HE3	1.94	0.50
3:FJ:219:THR:OG1	14:G6:472:ASN:OD1	2.27	0.50
4:FK:17:GLY:HA3	4:FK:67:PHE:HE1	1.77	0.50
3:FL:4:ILE:HD11	3:FL:131:GLN:HB2	1.93	0.50
3:FL:376:GLU:OE1	3:FL:376:GLU:N	2.30	0.50
11:Fe:446:MET:SD	11:Fe:446:MET:N	2.85	0.50
11:Fg:149:LEU:O	11:Fg:153:LYS:HG2	2.11	0.50
11:Fi:319:GLU:C	11:Fi:323:HIS:HD1	2.14	0.50
11:Fi:328:LEU:O	11:Fi:332:MET:HG2	2.12	0.50
11:Fk:428:GLN:HA	11:Fk:431:LYS:HG2	1.94	0.50
11:Fm:123:ILE:O	11:Fm:127:LYS:HG2	2.12	0.50
11:Fm:259:SER:HA	11:Fm:262:TYR:HB2	1.94	0.50
12:G:109:GLU:HB3	12:G:113:PHE:CZ	2.47	0.50
13:G3:446:THR:HB	13:G3:471:LYS:HE2	1.94	0.50
14:G5:529:THR:O	14:G5:533:MET:HG2	2.12	0.50
14:G5:734:ARG:HG3	14:G5:735:TYR:N	2.26	0.50
14:G6:4:PRO:HG2	14:G6:6:LEU:HG	1.94	0.50
14:G6:12:ASN:OD1	14:G6:13:ARG:N	2.45	0.50
4:GA:47:ASP:HB3	4:GA:49:PHE:CE2	2.47	0.50
3:GB:382:SER:HB3	3:GB:415:MET:HE1	1.93	0.50
3:GD:2:ARG:HH12	4:GE:96:LYS:HB3	1.77	0.50
3:GD:311:LEU:HD11	3:GD:372:THR:HG23	1.94	0.50
4:GE:37:PRO:HD2	23:M:68:ARG:HG2	1.93	0.50
3:GF:119:VAL:HA	3:GF:122:LYS:HZ3	1.76	0.50
4:GG:54:SER:H	4:GG:62:VAL:H	1.59	0.50
4:GI:118:VAL:HA	4:GI:121:ARG:HG2	1.94	0.50
3:HB:12:CYS:HB3	39:HB:501:GTP:H5'	1.94	0.50
3:HD:350:LYS:HE3	4:HE:181:VAL:H	1.77	0.50
4:HE:88:HIS:CE1	4:HE:90:GLU:HG2	2.47	0.50
3:HF:206:ALA:O	3:HF:210:ILE:HG12	2.12	0.50
3:HF:305:PRO:HB2	3:HF:310:TYR:HE1	1.76	0.50
4:HG:47:ASP:HB3	4:HG:49:PHE:CE2	2.46	0.50
3:HH:8:GLN:HG2	3:HH:65:LEU:HA	1.94	0.50
4:HI:256:GLN:O	4:HI:260:VAL:HG12	2.12	0.50
4:HI:345:ASP:N	4:HI:345:ASP:OD1	2.43	0.50
3:HJ:14:ASN:ND2	3:HJ:67:ASP:OD2	2.45	0.50
4:HK:331:ALA:O	4:HK:334:THR:OG1	2.25	0.50
3:HL:322:SER:N	3:HL:325:GLU:OE2	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:HL:501:GTP:O3G	39:HL:501:GTP:O3'	2.25	0.50
16:I:104:ASP:OD1	16:I:104:ASP:N	2.45	0.50
4:IA:101:ASN:HB3	4:IA:182:VAL:HG11	1.93	0.50
4:IA:208:ALA:O	4:IA:212:ILE:N	2.41	0.50
4:IA:392:ASP:O	4:IA:396:ASP:N	2.35	0.50
3:IB:8:GLN:OE1	3:IB:8:GLN:N	2.45	0.50
4:IC:53:PHE:O	4:IC:64:ARG:NH1	2.44	0.50
4:IK:214:ARG:NH1	4:IK:215:ARG:HG3	2.26	0.50
3:IL:101:TRP:CE3	3:IL:187:LEU:HD13	2.46	0.50
4:JC:168:GLU:HB2	4:JC:201:ALA:HA	1.94	0.50
3:JF:269:GLY:N	3:JF:367:PHE:O	2.45	0.50
3:JH:350:LYS:HE3	4:JI:181:VAL:N	2.27	0.50
4:JI:132:LEU:HD21	4:JI:135:PHE:HE1	1.77	0.50
3:JJ:65:LEU:HD21	3:JJ:73:MET:HG2	1.94	0.50
4:JK:324:VAL:HG21	3:JL:219:THR:HG22	1.94	0.50
4:JK:333:ALA:HA	4:JK:336:LYS:HD2	1.93	0.50
21:K2:326:GLN:NE2	21:K2:327:GLU:HG3	2.27	0.50
21:K3:179:VAL:O	21:K3:183:GLY:N	2.44	0.50
21:K3:337:ALA:O	21:K3:341:ARG:HG3	2.11	0.50
21:K3:352:MET:HE1	31:R2:137:GLU:HB2	1.94	0.50
3:KB:189:VAL:HA	3:KB:192:LEU:HD12	1.92	0.50
4:KE:76:ASP:OD1	4:KE:79:ARG:NH1	2.45	0.50
3:KF:250:LEU:HD13	3:KF:253:LEU:HD12	1.93	0.50
4:KK:336:LYS:HG2	4:KK:351:PHE:CZ	2.46	0.50
3:KL:91:VAL:HG11	3:KL:116:VAL:HG12	1.94	0.50
22:L2:250:ILE:HD11	36:Y:44:ILE:HG12	1.92	0.50
4:LA:166:LYS:N	4:LA:199:ASP:OD2	2.45	0.50
4:LA:287:SER:OG	4:LA:290:GLU:OE1	2.27	0.50
4:LC:429:GLU:O	4:LC:433:GLU:HG2	2.11	0.50
3:LD:407:GLU:OE1	3:LD:407:GLU:N	2.45	0.50
4:LG:69:ASP:N	4:LG:93:ILE:O	2.42	0.50
3:LH:81:PHE:O	3:LH:84:ILE:HG22	2.12	0.50
4:LI:233:GLN:OE1	4:LI:236:SER:OG	2.30	0.50
3:LJ:217:LEU:HD11	3:LJ:220:PRO:HB3	1.94	0.50
3:LJ:328:GLU:OE2	3:LJ:329:GLN:NE2	2.43	0.50
4:LK:1:MET:N	4:LK:130:THR:OG1	2.44	0.50
3:MB:21:TRP:CZ2	3:MB:63:ALA:HB2	2.47	0.50
3:MB:152:ILE:O	3:MB:156:ARG:HG2	2.11	0.50
3:MD:309:ARG:HE	3:MD:426:GLN:HE21	1.59	0.50
4:ME:70:LEU:HB2	4:ME:145:THR:HG21	1.94	0.50
4:MG:370:LYS:HE3	27:P:217:ASN:CG	2.37	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MH:210:ILE:HD13	3:MH:213:ARG:HD3	1.93	0.50
4:MI:230:LEU:O	4:MI:234:ILE:HG12	2.12	0.50
3:ML:310:TYR:HB2	3:ML:341:PHE:HD1	1.76	0.50
3:ND:81:PHE:O	3:ND:84:ILE:HG22	2.12	0.50
3:ND:291:GLN:NE2	3:ND:295:ASP:OD1	2.45	0.50
4:NE:230:LEU:O	4:NE:234:ILE:HG12	2.12	0.50
4:NG:262:TYR:HE1	3:NH:393:ALA:HA	1.77	0.50
3:NH:67:ASP:OD2	3:NH:72:THR:OG1	2.24	0.50
4:NI:212:ILE:HG13	4:NI:215:ARG:NH2	2.26	0.50
3:NJ:81:PHE:O	3:NJ:84:ILE:HG22	2.12	0.50
4:NK:408:TYR:CD2	4:NK:418:PHE:HZ	2.30	0.50
4:NK:411:GLU:OE2	4:NK:413:MET:HE1	2.12	0.50
3:OB:401:GLU:OE1	3:OB:403:MET:HG2	2.11	0.50
4:OC:50:ASN:OD1	4:OC:51:THR:N	2.45	0.50
4:OI:260:VAL:O	3:OJ:397:TRP:HH2	1.95	0.50
3:OJ:91:VAL:HG11	3:OJ:116:VAL:HG12	1.94	0.50
3:OL:130:LEU:HB2	3:OL:162:ARG:HH11	1.77	0.50
29:P1:188:ASP:HB2	29:P1:195:TRP:HE1	1.77	0.50
29:P2:19:VAL:HG22	29:P2:612:LEU:HD22	1.92	0.50
29:P2:208:VAL:HG13	29:P2:222:LEU:HB3	1.93	0.50
4:PA:11:GLN:O	4:PA:14:VAL:HG22	2.12	0.50
4:PA:22:GLU:HG2	4:PA:83:TYR:CE2	2.46	0.50
3:PB:392:LYS:HB2	3:PB:395:LEU:HD12	1.94	0.50
4:PC:287:SER:OG	4:PC:290:GLU:OE1	2.25	0.50
3:PD:309:ARG:H	3:PD:372:THR:HG1	1.57	0.50
4:PE:239:THR:OG1	4:PE:243:ARG:NH1	2.44	0.50
3:PF:217:LEU:HD11	3:PF:220:PRO:HB3	1.94	0.50
3:PF:262:ARG:NH2	3:PF:425:TYR:OH	2.45	0.50
4:PI:273:ALA:HB2	4:PI:295:CYS:HB3	1.93	0.50
3:PJ:3:GLU:HG2	3:PJ:130:LEU:HD23	1.94	0.50
3:PL:324:LYS:HD3	4:PM:210:TYR:CE1	2.45	0.50
30:Q2:1463:LYS:HD3	30:Q2:1507:TYR:CD1	2.47	0.50
30:Q3:1355:GLN:OE1	30:Q3:1391:ASN:ND2	2.45	0.50
4:QC:50:ASN:OD1	4:QC:51:THR:N	2.45	0.50
3:QD:218:THR:OG1	3:QD:219:THR:N	2.45	0.50
3:QD:398:TYR:HB3	3:QD:403:MET:HB2	1.92	0.50
4:QG:47:ASP:HB3	4:QG:49:PHE:CE2	2.47	0.50
3:QH:58:LYS:HE2	3:RH:281:TYR:CE1	2.47	0.50
3:QH:282:ARG:NH2	3:QH:292:GLN:OE1	2.26	0.50
4:QI:208:ALA:N	4:QI:304:LYS:HZ1	2.08	0.50
3:QJ:324:LYS:HD2	4:QK:221:ARG:HA	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QL:12:CYS:SG	39:QL:501:GTP:H5'	2.51	0.50
31:R1:277:MET:SD	31:R1:277:MET:N	2.85	0.50
3:RB:163:ILE:HD13	3:RB:250:LEU:HB3	1.93	0.50
4:RE:42:ILE:HG12	4:RE:55:GLU:OE2	2.12	0.50
3:RH:83:GLN:O	3:RH:86:ARG:NH2	2.44	0.50
3:RL:178:THR:HB	3:RL:181:GLU:HB2	1.93	0.50
3:RL:234:SER:O	3:RL:238:THR:HG23	2.12	0.50
4:RM:49:PHE:O	4:RM:53:PHE:N	2.45	0.50
3:SB:314:ALA:HB3	3:SB:368:ILE:HG23	1.93	0.50
3:SH:426:GLN:NE2	3:SH:427:ASP:OD2	2.45	0.50
4:SI:70:LEU:HA	4:SI:95:GLY:HA3	1.94	0.50
4:SI:287:SER:OG	4:SI:290:GLU:OE1	2.22	0.50
4:SI:319:TYR:N	4:SI:354:GLY:O	2.44	0.50
4:SM:332:ILE:HG13	4:SM:336:LYS:HE3	1.93	0.50
3:TB:384:GLN:O	3:TB:388:MET:HG2	2.12	0.50
4:TC:50:ASN:O	4:TC:64:ARG:NH1	2.45	0.50
3:TF:13:GLY:HA2	3:TF:16:ILE:HB	1.94	0.50
4:TG:68:VAL:HG12	4:TG:93:ILE:HB	1.94	0.50
4:TK:105:ARG:O	4:TK:109:THR:OG1	2.15	0.50
4:TK:161:TYR:HB3	4:TK:164:LYS:HZ3	1.77	0.50
3:TN:217:LEU:HD11	3:TN:220:PRO:HB3	1.94	0.50
3:TN:376:GLU:HA	3:TN:379:LYS:HZ2	1.77	0.50
4:UC:105:ARG:O	4:UC:109:THR:OG1	2.22	0.50
4:UC:206:ASN:HA	4:UC:209:ILE:HD12	1.94	0.50
3:UD:130:LEU:HB2	3:UD:162:ARG:HH11	1.75	0.50
3:UF:3:GLU:OE2	3:UF:127:CYS:HB2	2.11	0.50
4:UG:245:ASP:O	4:UG:356:ASN:ND2	2.45	0.50
4:UG:346:TRP:HH2	4:UG:435:VAL:HA	1.76	0.50
3:UH:176:SER:O	3:UH:178:THR:N	2.44	0.50
3:UJ:278:SER:HA	3:UJ:281:TYR:HB2	1.94	0.50
4:UK:68:VAL:HG12	4:UK:93:ILE:HB	1.94	0.50
3:VB:120:VAL:O	3:VB:124:ALA:N	2.42	0.50
4:VC:50:ASN:OD1	4:VC:51:THR:N	2.45	0.50
3:VD:317:PHE:O	3:VD:354:CYS:N	2.33	0.50
3:VF:156:ARG:CZ	3:VF:164:MET:HE3	2.42	0.50
4:VG:411:GLU:OE2	4:VG:413:MET:HE1	2.12	0.50
4:VI:254:GLU:OE1	4:VI:254:GLU:N	2.44	0.50
3:VJ:139:LEU:HD21	3:VJ:170:VAL:HG22	1.94	0.50
3:VJ:214:THR:HG21	3:VJ:273:LEU:HB3	1.93	0.50
3:VL:101:TRP:HB2	3:VL:184:ASN:HD22	1.77	0.50
33:W:142:VAL:HG12	33:W:146:LYS:HZ2	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:WB:375:GLN:HA	3:WB:378:PHE:CZ	2.46	0.50
4:WC:32:PRO:O	4:WC:85:GLN:NE2	2.44	0.50
3:WD:328:GLU:OE2	3:WD:329:GLN:NE2	2.43	0.50
4:WE:105:ARG:O	4:WE:109:THR:OG1	2.28	0.50
4:WG:206:ASN:HA	4:WG:209:ILE:HD12	1.94	0.50
3:WH:11:GLN:HE21	39:WH:501:GTP:H3'	1.76	0.50
3:WJ:322:SER:OG	3:WJ:323:MET:SD	2.70	0.50
4:WK:185:TYR:CZ	4:WK:398:MET:HE1	2.47	0.50
3:WL:269:GLY:N	3:WL:367:PHE:O	2.44	0.50
3:WL:375:GLN:HA	3:WL:378:PHE:CZ	2.47	0.50
34:XB:20:LYS:HG3	34:XB:23:GLN:OE1	2.11	0.50
34:XB:53:ASN:OD1	34:XB:55:SER:OG	2.21	0.50
34:XG:34:ILE:HG13	34:XG:34:ILE:O	2.12	0.50
34:XG:86:TYR:HA	34:XG:107:ASN:ND2	2.27	0.50
35:XK:157:GLN:OE1	35:XK:212:THR:HA	2.12	0.50
35:XK:158:HIS:O	35:XK:162:SER:OG	2.19	0.50
37:YG:69:PHE:CD1	37:YG:72:ILE:HD12	2.47	0.50
37:YK:112:SER:HA	37:YK:135:GLY:HA3	1.93	0.50
37:YK:122:VAL:HA	37:YK:125:LEU:HD12	1.93	0.50
37:YP:8:LEU:HD12	37:YP:11:ILE:HB	1.94	0.50
37:YP:18:PHE:HA	37:YP:21:GLN:HB3	1.94	0.50
37:YP:139:SER:C	37:YP:142:PRO:HD2	2.37	0.50
37:YS:155:SER:HA	37:YS:158:LEU:HG	1.94	0.50
37:YT:136:GLY:O	37:YT:140:LEU:HG	2.12	0.50
37:YV:18:PHE:O	37:YV:22:GLN:N	2.44	0.50
37:YW:159:PRO:HB2	37:YW:161:LYS:HG2	1.93	0.50
2:A2:15:GLU:O	2:A2:18:ILE:HG22	2.11	0.49
2:A3:178:LYS:NZ	2:A3:217:TRP:HE1	2.09	0.49
2:A3:214:LEU:O	2:A3:218:LEU:HG	2.12	0.49
4:AE:91:GLN:HG3	4:AE:121:ARG:HH21	1.77	0.49
4:AE:427:ALA:HB1	34:XC:102:ARG:HH22	1.77	0.49
3:AH:139:LEU:N	3:AH:168:SER:OG	2.45	0.49
4:AK:201:ALA:H	4:AK:266:HIS:HD2	1.59	0.49
4:AM:186:ASN:HA	4:AM:189:LEU:HD12	1.94	0.49
5:B2:203:VAL:HG13	5:B2:207:ARG:HH22	1.77	0.49
5:B2:268:ARG:HD3	5:B2:271:GLU:OE2	2.11	0.49
5:B7:392:ASP:HB2	7:C8:337:TRP:CH2	2.47	0.49
5:B8:92:LEU:HD11	5:B8:236:SER:HB2	1.94	0.49
3:BB:72:THR:O	3:BB:75:SER:OG	2.25	0.49
3:BD:172:SER:HB3	3:BD:175:VAL:O	2.12	0.49
3:BD:405:GLU:HA	3:BD:408:PHE:HD2	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BE:3:GLU:N	4:BE:133:GLN:OE1	2.45	0.49
4:BE:207:GLU:HB2	4:BE:304:LYS:HZ1	1.77	0.49
4:BE:392:ASP:OD1	4:BE:393:HIS:N	2.45	0.49
3:BF:406:MET:O	3:BF:409:THR:OG1	2.20	0.49
3:BH:234:SER:O	3:BH:238:THR:HG23	2.12	0.49
4:BI:167:LEU:HD13	4:BI:200:CYS:HB2	1.93	0.49
4:BI:251:ASP:HB3	4:BI:254:GLU:OE1	2.12	0.49
3:BJ:347:ASN:HB3	4:BK:178:SER:HB3	1.94	0.49
7:C7:386:ILE:HA	7:C7:389:LYS:HD2	1.94	0.49
4:CC:324:VAL:HG21	3:CD:219:THR:HG22	1.94	0.49
3:CD:36:TYR:HE2	3:CD:44:LEU:HD13	1.77	0.49
3:CD:324:LYS:HE2	4:CE:222:PRO:HG2	1.94	0.49
3:CD:330:MET:SD	3:CD:349:VAL:HG21	2.52	0.49
4:CG:46:ASP:OD1	4:CG:50:ASN:ND2	2.39	0.49
4:CG:68:VAL:HA	4:CG:93:ILE:HB	1.93	0.49
4:CG:139:HIS:CD2	4:CG:170:ALA:HB2	2.47	0.49
3:CH:273:LEU:H	3:CH:292:GLN:HE22	1.60	0.49
4:CI:295:CYS:HB2	4:CI:377:MET:HE3	1.94	0.49
3:CJ:350:LYS:HZ2	4:CK:181:VAL:HG13	1.77	0.49
4:CM:6:SER:HB3	4:CM:65:ALA:HB2	1.94	0.49
7:Cb:321:LEU:O	7:Cb:325:THR:HG23	2.12	0.49
6:D:125:ALA:HA	6:D:128:ILE:HD13	1.94	0.49
6:D:137:PHE:CD1	6:D:182:ILE:HD12	2.47	0.49
8:D4:358:TYR:O	8:D4:361:SER:OG	2.23	0.49
8:D7:314:SER:O	8:D7:318:LEU:HG	2.12	0.49
8:D7:324:LYS:HG3	8:D8:71:ARG:NH1	2.19	0.49
8:D9:102:LYS:O	8:D9:105:GLU:HG2	2.12	0.49
4:DC:276:ILE:HG22	4:DC:369:ALA:HB2	1.92	0.49
4:DC:429:GLU:O	4:DC:432:TYR:N	2.44	0.49
3:DF:114:ASP:OD1	3:DF:115:SER:N	2.45	0.49
3:DH:132:GLY:HA3	3:DH:163:ILE:H	1.77	0.49
4:DK:254:GLU:N	4:DK:254:GLU:OE1	2.43	0.49
4:DK:281:ALA:HA	4:DK:284:GLU:HG3	1.93	0.49
4:EA:28:HIS:HB2	4:EA:30:ILE:HG12	1.93	0.49
4:EC:1:MET:SD	4:EC:2:ARG:N	2.85	0.49
4:EC:154:MET:HE1	4:EC:197:HIS:HB2	1.94	0.49
3:EJ:223:GLY:HA2	3:EJ:226:ASN:ND2	2.27	0.49
3:EJ:415:MET:O	3:EJ:419:VAL:HG23	2.11	0.49
4:EK:51:THR:HG23	4:EK:52:PHE:CD2	2.46	0.49
4:EK:287:SER:N	4:EK:290:GLU:OE2	2.45	0.49
3:EL:48:ASN:HA	3:EL:51:TYR:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EL:309:ARG:NH2	3:EL:426:GLN:O	2.45	0.49
11:F1:367:GLU:HG3	11:F2:110:ARG:NH2	2.27	0.49
11:F2:293:PRO:HA	11:F2:296:TRP:CE3	2.47	0.49
11:F3:392:ALA:HA	11:F3:416:LEU:HD22	1.93	0.49
11:F3:434:LEU:O	11:F3:437:THR:HG22	2.11	0.49
11:F4:258:SER:O	11:F4:261:GLN:HG2	2.11	0.49
4:FC:263:PRO:HD3	3:FD:396:HIS:CD2	2.47	0.49
3:FD:23:VAL:O	3:FD:27:GLU:N	2.40	0.49
4:FE:2:ARG:NH1	4:FE:241:SER:O	2.45	0.49
4:FE:119:LEU:HB3	4:FE:123:ARG:NH2	2.27	0.49
4:FG:203:MET:SD	4:FG:203:MET:N	2.80	0.49
3:FH:316:VAL:HG22	3:FH:352:ALA:HB3	1.92	0.49
4:FI:88:HIS:HB3	4:FI:91:GLN:CG	2.43	0.49
3:FJ:385:PHE:O	3:FJ:389:PHE:HD2	1.96	0.49
3:FL:175:VAL:HG22	3:FL:177:ASP:H	1.77	0.49
11:Fb:291:SER:HB3	11:Fb:296:TRP:CZ2	2.46	0.49
11:Fc:162:ARG:HB2	11:Fc:311:ARG:HH22	1.77	0.49
11:Fc:207:VAL:HG22	11:Fc:209:ASP:HB2	1.94	0.49
11:Ff:402:ARG:HD2	11:Ff:402:ARG:O	2.12	0.49
11:Fk:256:ASP:O	11:Fk:260:ALA:N	2.35	0.49
11:Fm:374:THR:O	11:Fm:378:LEU:HG	2.12	0.49
14:G5:467:GLU:HB3	14:G5:478:GLY:H	1.77	0.49
14:G6:328:VAL:HG13	14:G6:330:GLN:NE2	2.26	0.49
14:G6:633:GLU:HB3	14:G6:699:TRP:HZ2	1.76	0.49
3:GB:5:VAL:HG23	3:GB:130:LEU:HD11	1.94	0.49
3:GB:269:GLY:HA3	3:GB:367:PHE:HB3	1.93	0.49
4:GE:161:TYR:O	4:GE:166:LYS:NZ	2.45	0.49
4:GE:385:ALA:HB2	4:GE:432:TYR:HD2	1.77	0.49
3:GF:128:ASP:OD1	3:GF:129:CYS:N	2.38	0.49
4:GG:262:TYR:CE1	3:GH:393:ALA:HA	2.47	0.49
3:GL:16:ILE:HD13	3:GL:226:ASN:ND2	2.27	0.49
15:H1:234:MET:SD	15:H1:234:MET:N	2.85	0.49
15:H5:41:GLN:HA	15:H5:44:THR:HB	1.94	0.49
15:H6:281:LEU:HD23	15:H6:282:ILE:N	2.27	0.49
3:HB:214:THR:HG23	3:HB:215:LEU:HD22	1.94	0.49
3:HB:249:ASP:O	3:HB:253:LEU:HG	2.12	0.49
3:HD:31:ASP:OD1	3:HD:35:THR:N	2.44	0.49
4:HE:2:ARG:HA	4:HE:133:GLN:HE22	1.76	0.49
3:HF:175:VAL:HG22	3:HF:177:ASP:H	1.75	0.49
4:HG:196:GLU:HG2	4:HG:197:HIS:ND1	2.26	0.49
17:I1:57:LEU:O	17:I1:61:TYR:N	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:IA:392:ASP:OD1	4:IA:393:HIS:N	2.44	0.49
3:IB:235:GLY:HA3	3:IB:366:THR:HG21	1.94	0.49
4:IC:345:ASP:OD1	4:IC:345:ASP:N	2.41	0.49
3:ID:113:VAL:HB	3:ID:154:LYS:HE3	1.94	0.49
3:ID:323:MET:SD	3:ID:323:MET:N	2.81	0.49
4:IE:142:GLY:HA2	4:IE:183:GLU:OE1	2.12	0.49
4:IE:207:GLU:HB2	4:IE:304:LYS:NZ	2.25	0.49
3:IJ:12:CYS:SG	39:IJ:501:GTP:H5'	2.52	0.49
4:IM:34:GLY:HA2	4:IM:86:LEU:HD21	1.94	0.49
4:IM:176:GLN:NE2	4:IM:207:GLU:OE2	2.45	0.49
4:JA:91:GLN:HG3	4:JA:121:ARG:HH21	1.77	0.49
3:JB:330:MET:HE3	3:JB:349:VAL:HG13	1.94	0.49
3:JD:2:ARG:HA	3:JD:129:CYS:O	2.12	0.49
3:JD:139:LEU:HD21	3:JD:170:VAL:HG22	1.94	0.49
3:JD:406:MET:O	3:JD:409:THR:OG1	2.23	0.49
3:JH:21:TRP:CZ2	3:JH:63:ALA:HB2	2.46	0.49
3:JH:41:ASP:OD1	3:JH:42:LEU:N	2.44	0.49
3:JJ:173:PRO:HD3	3:JJ:203:ASP:OD1	2.12	0.49
4:JK:316:CYS:N	4:JK:378:LEU:O	2.32	0.49
4:JK:406:HIS:HA	4:JK:409:VAL:HG12	1.94	0.49
3:JL:296:ALA:HA	3:JL:299:MET:HE2	1.93	0.49
21:K1:349:ARG:O	21:K1:353:THR:HG23	2.12	0.49
21:K1:359:GLY:O	21:K1:363:ARG:HG3	2.12	0.49
3:KD:73:MET:HA	3:KD:76:VAL:HG12	1.93	0.49
3:KD:306:ARG:HH22	3:KD:340:TYR:HE1	1.58	0.49
4:KE:6:SER:HB3	4:KE:65:ALA:HB2	1.93	0.49
4:KE:386:GLU:HA	4:KE:389:ALA:HB3	1.94	0.49
3:KF:415:MET:O	3:KF:418:LEU:HG	2.12	0.49
4:KG:116:ASP:N	4:KG:116:ASP:OD1	2.44	0.49
22:L1:124:ILE:HA	22:L1:136:LEU:H	1.77	0.49
22:L3:70:LYS:NZ	4:LI:406:HIS:O	2.44	0.49
3:LB:2:ARG:HA	3:LB:129:CYS:O	2.12	0.49
3:LB:163:ILE:HD13	3:LB:250:LEU:HB3	1.94	0.49
4:LC:131:GLY:C	4:LC:132:LEU:HD23	2.37	0.49
3:LD:378:PHE:CD1	3:LD:419:VAL:HG22	2.47	0.49
4:LG:287:SER:N	4:LG:290:GLU:OE2	2.45	0.49
3:LH:41:ASP:N	3:LH:41:ASP:OD1	2.45	0.49
3:LH:206:ALA:O	3:LH:210:ILE:HG12	2.13	0.49
4:LI:9:VAL:HA	4:LI:68:VAL:HG23	1.94	0.49
4:LI:49:PHE:O	4:LI:53:PHE:N	2.44	0.49
4:LI:392:ASP:OD1	4:LI:393:HIS:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MC:49:PHE:O	4:MC:52:PHE:N	2.41	0.49
3:MD:240:LEU:HD22	3:MD:248:ALA:HB1	1.93	0.49
3:MF:3:GLU:OE2	3:MF:127:CYS:HB2	2.12	0.49
4:MI:113:GLU:OE1	4:MI:113:GLU:N	2.42	0.49
4:MI:208:ALA:N	4:MI:304:LYS:HZ1	2.09	0.49
4:MI:396:ASP:OD1	4:MI:397:LEU:N	2.45	0.49
3:MJ:206:ALA:O	3:MJ:210:ILE:HG12	2.12	0.49
3:ML:5:VAL:HG23	3:ML:130:LEU:HD21	1.94	0.49
3:ML:350:LYS:HE3	4:MM:180:ALA:HA	1.94	0.49
3:NB:114:ASP:OD1	3:NB:115:SER:N	2.45	0.49
3:NB:176:SER:O	3:NB:178:THR:N	2.45	0.49
3:NB:234:SER:O	3:NB:238:THR:HG23	2.12	0.49
3:ND:211:CYS:HA	3:ND:215:LEU:HB2	1.94	0.49
3:NJ:91:VAL:HG11	3:NJ:116:VAL:HG12	1.93	0.49
3:NL:12:CYS:O	3:NL:16:ILE:HG12	2.11	0.49
3:OB:230:SER:HA	3:OB:233:MET:HE3	1.94	0.49
3:OB:347:ASN:HB3	4:OC:178:SER:HB3	1.93	0.49
3:OD:12:CYS:SG	3:OD:13:GLY:N	2.85	0.49
3:OD:417:ASP:O	3:OD:421:GLU:HG2	2.11	0.49
3:OH:139:LEU:N	3:OH:168:SER:OG	2.45	0.49
3:OH:419:VAL:O	3:OH:423:GLN:NE2	2.44	0.49
4:OI:98:ASP:OD1	4:OI:99:ALA:N	2.45	0.49
4:OI:390:ARG:HA	4:OI:393:HIS:CD2	2.47	0.49
3:OL:28:HIS:O	3:OL:43:GLN:NE2	2.44	0.49
27:P:95:ASN:HA	27:P:98:GLN:CD	2.37	0.49
29:P2:21:GLY:HA2	29:P2:330:CYS:SG	2.52	0.49
29:P2:144:LYS:HG3	29:P2:146:ASP:OD1	2.11	0.49
4:PE:207:GLU:HB2	4:PE:304:LYS:NZ	2.27	0.49
3:PH:7:LEU:HD13	3:PH:64:VAL:HB	1.94	0.49
3:PH:139:LEU:HD21	3:PH:170:VAL:HG22	1.94	0.49
4:PI:88:HIS:HB3	4:PI:91:GLN:HB2	1.94	0.49
3:PJ:47:ILE:HG12	3:PJ:59:TYR:CD2	2.46	0.49
3:PJ:218:THR:OG1	3:PJ:219:THR:N	2.45	0.49
3:PL:4:ILE:HB	3:PL:50:TYR:CE1	2.47	0.49
3:PL:32:PRO:O	3:PL:83:GLN:NE2	2.36	0.49
3:PL:378:PHE:CD1	3:PL:419:VAL:HG22	2.47	0.49
27:Q:25:ARG:HA	27:Q:28:ARG:HE	1.77	0.49
30:Q1:1471:VAL:O	30:Q1:1475:ARG:HG3	2.12	0.49
30:Q3:1359:SER:HB2	30:Q3:1362:GLU:HG2	1.94	0.49
30:Q3:1450:CYS:HB3	30:Q3:1453:PRO:HG2	1.94	0.49
4:QC:5:ILE:HD13	4:QC:64:ARG:HB3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:QC:256:GLN:O	4:QC:260:VAL:HG12	2.12	0.49
3:QD:47:ILE:HG12	3:QD:59:TYR:CD2	2.47	0.49
4:QG:325:PRO:HA	4:QG:328:VAL:HB	1.93	0.49
3:QH:13:GLY:HA2	3:QH:16:ILE:HB	1.93	0.49
4:QI:263:PRO:HD3	3:QJ:396:HIS:CD2	2.47	0.49
4:QI:331:ALA:O	4:QI:334:THR:OG1	2.27	0.49
4:RC:70:LEU:HA	4:RC:95:GLY:HA3	1.94	0.49
3:RD:12:CYS:HA	39:RD:501:GTP:N2	2.27	0.49
4:RG:287:SER:OG	4:RG:290:GLU:OE1	2.23	0.49
4:RG:426:ALA:C	4:RG:430:LYS:HZ2	2.20	0.49
3:RH:97:ALA:O	3:RH:103:LYS:HE2	2.11	0.49
4:RI:50:ASN:O	4:RI:64:ARG:NH1	2.44	0.49
4:RI:255:PHE:HE1	4:RI:352:LYS:HZ1	1.60	0.49
4:RI:264:ARG:O	4:RI:266:HIS:ND1	2.41	0.49
4:RK:171:ILE:HD12	4:RK:204:VAL:HG13	1.92	0.49
3:RL:32:PRO:O	3:RL:83:GLN:NE2	2.42	0.49
4:SC:68:VAL:HG12	4:SC:93:ILE:HB	1.94	0.49
4:SC:260:VAL:O	3:SD:397:TRP:HH2	1.94	0.49
4:SC:319:TYR:HE2	4:SC:328:VAL:HG13	1.77	0.49
4:SE:88:HIS:HB3	4:SE:91:GLN:HB2	1.94	0.49
4:SE:207:GLU:HB2	4:SE:304:LYS:NZ	2.27	0.49
4:SI:319:TYR:HB2	4:SI:355:ILE:HD13	1.92	0.49
3:SJ:166:THR:OG1	3:SJ:198:GLU:O	2.27	0.49
3:SL:172:SER:OG	3:SL:205:GLU:OE2	2.20	0.49
4:SM:273:ALA:HB2	4:SM:295:CYS:HB3	1.94	0.49
4:TC:392:ASP:O	4:TC:396:ASP:N	2.37	0.49
3:TD:406:MET:O	3:TD:409:THR:OG1	2.24	0.49
4:TE:406:HIS:HA	4:TE:409:VAL:HG22	1.94	0.49
4:TG:220:GLU:O	4:TG:221:ARG:NE	2.43	0.49
4:TI:33:ASP:OD1	4:TI:34:GLY:N	2.45	0.49
3:TJ:330:MET:HG3	3:TJ:349:VAL:HG21	1.92	0.49
3:TL:14:ASN:ND2	3:TL:67:ASP:OD2	2.45	0.49
4:TM:319:TYR:HE2	4:TM:328:VAL:HG13	1.77	0.49
33:U:289:TYR:O	33:U:293:LEU:HD23	2.12	0.49
4:UC:411:GLU:OE2	4:UC:413:MET:HE1	2.12	0.49
3:UD:250:LEU:HD13	3:UD:253:LEU:HD12	1.93	0.49
4:UE:32:PRO:O	4:UE:85:GLN:NE2	2.45	0.49
4:UE:207:GLU:HB2	4:UE:304:LYS:NZ	2.25	0.49
4:UE:235:VAL:HA	4:UE:238:ILE:HG12	1.93	0.49
3:UF:289:LEU:O	3:UF:293:MET:HG2	2.12	0.49
3:UF:324:LYS:O	3:UF:328:GLU:HG3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UG:50:ASN:O	4:UG:64:ARG:NH1	2.44	0.49
4:UG:274:PRO:HG3	4:UG:374:ALA:HA	1.94	0.49
4:UI:50:ASN:OD1	4:UI:51:THR:N	2.45	0.49
4:UI:104:ALA:O	4:UI:108:TYR:N	2.43	0.49
4:UI:345:ASP:N	4:UI:345:ASP:OD1	2.45	0.49
3:UJ:176:SER:O	3:UJ:178:THR:N	2.45	0.49
3:UJ:378:PHE:CD1	3:UJ:419:VAL:HG22	2.47	0.49
3:UL:150:LEU:C	3:UL:154:LYS:HZ3	2.20	0.49
3:VB:176:SER:O	3:VB:178:THR:N	2.45	0.49
4:VC:245:ASP:O	4:VC:356:ASN:ND2	2.45	0.49
4:VC:260:VAL:HG23	4:VC:265:ILE:O	2.12	0.49
3:VD:286:VAL:HG21	3:VD:325:GLU:HG3	1.92	0.49
3:VD:380:ARG:O	3:VD:384:GLN:HG2	2.12	0.49
3:VF:300:MET:N	3:VF:300:MET:SD	2.85	0.49
3:VH:218:THR:OG1	3:VH:219:THR:N	2.44	0.49
3:VL:286:VAL:HG21	3:VL:325:GLU:HG3	1.94	0.49
3:WB:305:PRO:HB2	3:WB:310:TYR:HE1	1.77	0.49
4:WC:34:GLY:HA2	4:WC:86:LEU:HD21	1.93	0.49
3:WD:372:THR:HG21	3:WD:426:GLN:HG3	1.94	0.49
4:WG:390:ARG:HA	4:WG:393:HIS:CD2	2.46	0.49
4:WI:125:LEU:HD13	4:WI:128:LEU:HD21	1.94	0.49
3:WJ:379:LYS:HA	3:WJ:379:LYS:HE2	1.94	0.49
4:WK:346:TRP:CH2	4:WK:435:VAL:HA	2.47	0.49
34:XC:160:CYS:SG	34:XC:162:ILE:HD11	2.52	0.49
34:XF:97:LYS:HD3	34:XF:97:LYS:O	2.11	0.49
37:YE:87:HIS:HA	37:YE:166:GLY:HA3	1.94	0.49
37:YH:15:TYR:OH	37:YH:141:ILE:HG21	2.12	0.49
37:YL:82:HIS:O	37:YL:86:LEU:HG	2.11	0.49
37:YM:18:PHE:CE1	37:YM:22:GLN:HA	2.46	0.49
37:YO:25:PHE:CE1	37:YO:66:LEU:HG	2.47	0.49
2:A2:114:LYS:HG3	2:A2:118:TYR:CE2	2.47	0.49
2:A2:336:ARG:NH1	2:A3:59:VAL:HA	2.26	0.49
2:A4:165:ARG:HA	2:A4:168:LYS:HG2	1.93	0.49
3:AF:272:PRO:HA	3:AF:292:GLN:OE1	2.12	0.49
4:AG:1:MET:HE2	4:AG:2:ARG:H	1.77	0.49
4:AI:430:LYS:HE2	34:XE:102:ARG:NH2	2.27	0.49
3:AJ:150:LEU:O	3:AJ:153:SER:OG	2.29	0.49
3:AL:20:PHE:CZ	3:AL:24:ILE:HD11	2.46	0.49
3:AL:26:ASP:OD1	3:AL:27:GLU:N	2.44	0.49
5:B3:268:ARG:HD3	5:B3:271:GLU:OE2	2.12	0.49
5:B4:120:ARG:NE	5:B4:120:ARG:HA	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B6:120:ARG:HH11	5:B6:120:ARG:HG2	1.76	0.49
5:B7:78:LEU:HD22	5:B7:179:LYS:HZ1	1.78	0.49
5:B8:333:GLN:OE1	5:B8:333:GLN:N	2.40	0.49
5:B9:346:GLU:HA	5:B9:349:ILE:HG22	1.95	0.49
3:BD:1:MET:HE1	3:BD:3:GLU:HB3	1.93	0.49
3:BD:11:GLN:HE21	39:BD:501:GTP:H3'	1.78	0.49
4:BG:122:ILE:O	4:BG:126:ALA:N	2.43	0.49
4:BG:192:HIS:HA	4:BG:195:LEU:HD23	1.94	0.49
4:BG:329:ASN:OD1	4:BG:330:ALA:N	2.46	0.49
4:BG:390:ARG:HA	4:BG:393:HIS:CD2	2.48	0.49
3:BH:70:PRO:HA	3:BH:73:MET:HE3	1.93	0.49
3:BH:361:LEU:HD22	14:G5:93:ARG:HH22	1.77	0.49
4:BI:34:GLY:HA2	4:BI:86:LEU:HD21	1.94	0.49
3:BJ:323:MET:N	3:BJ:323:MET:SD	2.84	0.49
3:BL:350:LYS:HE3	4:BM:180:ALA:HA	1.94	0.49
4:BM:16:ILE:HG22	4:BM:228:ASN:OD1	2.11	0.49
6:C:266:HIS:HB3	6:C:320:GLU:CG	2.42	0.49
7:C1:288:GLU:CD	7:C1:288:GLU:H	2.20	0.49
7:C4:197:GLU:HA	7:C4:200:PHE:CD1	2.46	0.49
7:C4:464:ASN:O	7:C4:468:ILE:HG12	2.12	0.49
7:C6:98:ASP:HA	7:C6:101:ARG:HB2	1.95	0.49
7:C6:114:ARG:NH2	7:C7:367:LYS:HG3	2.27	0.49
7:C7:167:MET:HE2	7:C7:311:SER:OG	2.11	0.49
7:C9:403:ARG:HB3	7:C9:406:ARG:HE	1.77	0.49
3:CB:292:GLN:HA	3:CB:295:ASP:OD2	2.11	0.49
4:CC:265:ILE:HD12	4:CC:432:TYR:CE1	2.47	0.49
3:CD:278:SER:O	3:CD:282:ARG:HD2	2.12	0.49
3:CF:272:PRO:HA	3:CF:292:GLN:OE1	2.13	0.49
3:CH:8:GLN:HG2	3:CH:65:LEU:HA	1.93	0.49
4:CI:172:TYR:HB2	4:CI:203:MET:HB2	1.94	0.49
3:CJ:178:THR:HB	3:CJ:181:GLU:HB2	1.94	0.49
3:CL:208:TYR:O	3:CL:211:CYS:HB3	2.12	0.49
4:CM:272:TYR:HE1	4:CM:374:ALA:HB1	1.77	0.49
7:Ca:414:ASP:OD1	7:Ca:415:MET:N	2.45	0.49
7:Cb:174:LEU:HB2	7:Cb:322:ARG:HH21	1.77	0.49
7:Cb:385:ALA:O	7:Cb:389:LYS:HG3	2.12	0.49
7:Cc:276:ASN:OD1	7:Cc:277:THR:N	2.44	0.49
6:D:313:GLU:O	6:D:317:MET:HE3	2.12	0.49
8:D2:78:ARG:HB2	8:D3:335:GLN:OE1	2.12	0.49
8:D3:138:LEU:HD23	8:D3:194:ILE:HD13	1.93	0.49
8:D4:166:ASP:OD2	8:D4:422:SER:OG	2.22	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:D4:406:GLU:HA	8:D4:409:ARG:HG2	1.94	0.49
8:D4:431:MET:N	8:D4:431:MET:SD	2.85	0.49
8:D7:266:LEU:O	8:D7:270:ARG:HG3	2.11	0.49
3:DB:130:LEU:HB2	3:DB:162:ARG:NH1	2.27	0.49
3:DB:130:LEU:HB2	3:DB:162:ARG:HH11	1.77	0.49
4:DE:113:GLU:OE1	4:DE:113:GLU:N	2.43	0.49
4:DE:122:ILE:O	4:DE:126:ALA:N	2.44	0.49
3:DF:5:VAL:HG23	3:DF:130:LEU:HD21	1.94	0.49
3:DH:380:ARG:O	3:DH:384:GLN:HG2	2.12	0.49
4:EA:88:HIS:O	4:EA:91:GLN:HG3	2.12	0.49
3:EB:19:LYS:NZ	3:EB:223:GLY:O	2.44	0.49
3:EB:107:THR:HB	3:EB:108:GLU:OE1	2.12	0.49
3:ED:387:ALA:HA	3:ED:390:ARG:HE	1.77	0.49
4:EE:9:VAL:HA	4:EE:68:VAL:HG23	1.94	0.49
4:EE:219:ILE:HB	4:EE:222:PRO:HG3	1.93	0.49
4:EE:229:ARG:NH1	4:EE:366:GLY:HA2	2.27	0.49
4:EG:345:ASP:N	4:EG:345:ASP:OD1	2.45	0.49
3:EH:299:MET:HE1	3:EH:305:PRO:HD2	1.94	0.49
4:EI:76:ASP:OD1	4:EI:79:ARG:NH1	2.46	0.49
4:EI:360:PRO:HG2	4:EI:374:ALA:HB3	1.93	0.49
4:EK:2:ARG:HA	4:EK:133:GLN:NE2	2.20	0.49
4:EK:28:HIS:HB2	4:EK:30:ILE:HD11	1.94	0.49
4:EK:311:LYS:HE3	4:EK:344:VAL:HG12	1.94	0.49
9:F:325:GLU:OE1	4:IK:221:ARG:HG2	2.11	0.49
11:F7:196:TYR:HB3	11:F7:200:LYS:HZ2	1.77	0.49
11:F7:296:TRP:HH2	11:F8:409:ARG:HG2	1.77	0.49
11:F8:358:GLN:O	11:F8:361:LEU:HG	2.11	0.49
11:F9:415:ARG:NH2	11:Fa:141:ASN:OD1	2.44	0.49
3:FB:11:GLN:O	3:FB:15:GLN:NE2	2.45	0.49
3:FB:12:CYS:SG	3:FB:13:GLY:N	2.84	0.49
3:FB:218:THR:OG1	3:FB:219:THR:N	2.46	0.49
3:FH:172:SER:HB3	3:FH:175:VAL:O	2.12	0.49
4:FK:207:GLU:HB2	4:FK:304:LYS:NZ	2.27	0.49
3:FL:156:ARG:NH1	3:FL:195:ASN:O	2.45	0.49
3:FL:219:THR:O	13:G3:458:ASN:ND2	2.37	0.49
3:FL:378:PHE:CD1	3:FL:419:VAL:HG22	2.47	0.49
11:Fa:336:PHE:CE2	11:Fa:477:PRO:HD2	2.47	0.49
11:Fb:241:ARG:O	11:Fb:244:ARG:HD3	2.11	0.49
11:Fg:222:LEU:O	11:Fg:226:GLN:HG2	2.12	0.49
11:Fk:195:LEU:HD11	11:Fk:198:ARG:HH21	1.78	0.49
13:G2:275:ILE:HB	13:G2:291:LEU:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:G3:511:TYR:HB3	13:G3:515:TYR:CZ	2.47	0.49
14:G6:308:GLY:HA3	14:G6:316:ASP:HA	1.93	0.49
14:G6:436:TYR:HE1	14:G6:529:THR:HG21	1.77	0.49
3:GB:16:ILE:HG13	3:GB:226:ASN:HD22	1.77	0.49
3:GB:323:MET:HE1	4:GC:224:TYR:N	2.27	0.49
4:GE:364:PRO:HB3	23:M:97:ARG:HH11	1.77	0.49
3:GF:309:ARG:H	3:GF:372:THR:HG1	1.60	0.49
4:GG:76:ASP:OD1	4:GG:79:ARG:NH1	2.46	0.49
4:GG:188:ILE:HG22	4:GG:421:ALA:HB1	1.94	0.49
4:GG:214:ARG:NH1	4:GG:215:ARG:HG3	2.27	0.49
4:GG:363:VAL:H	4:GG:368:LEU:HD21	1.77	0.49
3:GH:406:MET:O	3:GH:409:THR:OG1	2.26	0.49
4:GI:235:VAL:HA	4:GI:238:ILE:HG12	1.93	0.49
3:GJ:247:ASN:OD1	4:GK:11:GLN:NE2	2.44	0.49
4:GK:60:LYS:HD2	4:HK:283:HIS:HB2	1.94	0.49
15:H6:250:ASN:OD1	15:H6:251:GLN:N	2.45	0.49
4:HA:255:PHE:O	4:HA:259:LEU:HB2	2.12	0.49
3:HB:378:PHE:CD1	3:HB:419:VAL:HG22	2.47	0.49
4:HC:405:VAL:O	4:HC:409:VAL:N	2.39	0.49
3:HD:380:ARG:O	3:HD:384:GLN:HG2	2.12	0.49
4:HE:154:MET:HE3	4:HE:194:THR:HG22	1.94	0.49
4:HG:122:ILE:O	4:HG:126:ALA:N	2.39	0.49
4:HG:216:ASN:HB3	23:M:155:HIS:CD2	2.47	0.49
4:HG:321:GLY:HA3	4:HG:372:GLN:O	2.12	0.49
4:HK:143:GLY:O	4:HK:147:SER:OG	2.28	0.49
4:HK:256:GLN:O	4:HK:260:VAL:HG12	2.12	0.49
3:HL:176:SER:O	3:HL:178:THR:N	2.45	0.49
3:HL:334:GLN:O	3:HL:338:SER:OG	2.28	0.49
4:IA:272:TYR:CZ	4:IA:274:PRO:HG2	2.47	0.49
3:IB:12:CYS:SG	3:IB:13:GLY:N	2.85	0.49
3:ID:289:LEU:HD21	3:ID:363:MET:HB3	1.94	0.49
4:IE:306:ASP:OD1	4:IE:308:ARG:NH1	2.45	0.49
4:IG:85:GLN:O	3:JF:281:TYR:OH	2.30	0.49
4:IG:165:SER:OG	4:IG:252:LEU:HD13	2.11	0.49
3:IH:206:ALA:O	3:IH:210:ILE:HG12	2.12	0.49
4:II:260:VAL:HG23	4:II:265:ILE:O	2.12	0.49
3:IJ:11:GLN:NE2	39:IJ:501:GTP:H3'	2.28	0.49
3:IJ:185:ALA:O	3:IJ:189:VAL:HG12	2.12	0.49
4:IM:154:MET:HA	4:IM:157:LEU:HG	1.94	0.49
19:J1:24:ILE:HB	19:J1:28:LEU:HB3	1.95	0.49
3:JB:12:CYS:SG	3:JB:13:GLY:N	2.85	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JD:139:LEU:N	3:JD:168:SER:OG	2.44	0.49
3:JD:152:ILE:HA	3:JD:155:ILE:HG12	1.94	0.49
4:JE:186:ASN:OD1	4:JE:187:SER:N	2.45	0.49
3:JF:65:LEU:HD21	3:JF:73:MET:HG2	1.93	0.49
3:JJ:284:LEU:HG	3:JJ:289:LEU:HD11	1.94	0.49
3:JL:284:LEU:HG	3:JL:289:LEU:HD11	1.93	0.49
21:K2:425:HIS:O	21:K2:429:MET:HE3	2.12	0.49
21:K4:370:GLU:O	21:K4:374:THR:N	2.36	0.49
3:KF:109:GLY:O	3:KF:113:VAL:HG13	2.12	0.49
3:KF:270:PHE:HD2	3:KF:273:LEU:HD21	1.77	0.49
4:KG:261:PRO:HA	3:KH:394:PHE:CE1	2.47	0.49
3:KH:323:MET:SD	3:KH:323:MET:N	2.84	0.49
4:KI:108:TYR:O	4:KI:112:LYS:NZ	2.31	0.49
4:KK:70:LEU:HA	4:KK:95:GLY:HA3	1.93	0.49
22:L3:76:LYS:HD2	4:LI:417:GLU:OE1	2.12	0.49
3:LB:81:PHE:O	3:LB:84:ILE:HG22	2.12	0.49
3:LB:406:MET:O	3:LB:409:THR:OG1	2.20	0.49
3:LD:172:SER:OG	3:LD:205:GLU:OE2	2.20	0.49
3:LD:392:LYS:HD2	3:LD:392:LYS:O	2.12	0.49
3:LF:2:ARG:HB3	3:LF:131:GLN:CD	2.37	0.49
3:LF:420:SER:HA	24:M2:84:LEU:CD1	2.42	0.49
4:LI:75:VAL:HA	4:LI:78:VAL:HG12	1.94	0.49
3:LJ:155:ILE:HA	3:LJ:158:GLU:HB2	1.94	0.49
3:LL:170:VAL:N	3:LL:202:ILE:O	2.36	0.49
4:ME:271:THR:HB	4:ME:377:MET:HE2	1.93	0.49
4:ME:329:ASN:OD1	4:ME:330:ALA:N	2.45	0.49
4:MG:256:GLN:O	4:MG:260:VAL:HG12	2.12	0.49
3:MH:7:LEU:HD13	3:MH:64:VAL:HB	1.94	0.49
4:MM:236:SER:O	4:MM:243:ARG:NH2	2.40	0.49
26:N2:160:LYS:HZ1	26:N2:166:PHE:HA	1.77	0.49
4:NC:214:ARG:NH1	4:NC:215:ARG:HG3	2.26	0.49
4:NG:6:SER:HA	4:NG:136:LEU:HB2	1.93	0.49
4:NG:264:ARG:O	4:NG:266:HIS:ND1	2.41	0.49
4:NI:68:VAL:HG12	4:NI:93:ILE:HB	1.94	0.49
4:OE:285:GLN:HE22	4:OE:287:SER:HB3	1.77	0.49
4:OG:9:VAL:HA	4:OG:68:VAL:HG23	1.93	0.49
4:OG:54:SER:N	4:OG:62:VAL:O	2.45	0.49
4:OG:68:VAL:HG12	4:OG:93:ILE:HB	1.94	0.49
4:OG:168:GLU:HB2	4:OG:201:ALA:HA	1.93	0.49
4:OK:115:VAL:HA	4:OK:118:VAL:HG22	1.94	0.49
4:OK:390:ARG:HA	4:OK:393:HIS:CD2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:P1:39:LEU:HD23	29:P1:52:ILE:HG12	1.95	0.49
29:P3:354:LYS:HZ1	29:P3:374:ASN:HA	1.77	0.49
29:P3:387:LYS:O	29:P3:403:PRO:HD3	2.12	0.49
4:PC:331:ALA:O	4:PC:334:THR:OG1	2.25	0.49
3:PD:317:PHE:HB3	3:PD:321:MET:HE3	1.94	0.49
4:PE:75:VAL:HG22	4:PE:79:ARG:HH21	1.77	0.49
4:PG:47:ASP:HB3	4:PG:49:PHE:CE2	2.48	0.49
3:PH:56:GLY:HA2	37:YM:59:ASN:HA	1.93	0.49
3:PH:282:ARG:NH2	3:PH:292:GLN:OE1	2.39	0.49
3:PJ:273:LEU:H	3:PJ:292:GLN:HE22	1.60	0.49
4:PM:47:ASP:HB3	4:PM:49:PHE:CE2	2.47	0.49
27:Q:21:ILE:O	27:Q:25:ARG:N	2.40	0.49
30:Q1:1396:TYR:HB2	30:Q1:1400:ILE:HG12	1.94	0.49
30:Q2:1386:TYR:HD1	30:Q2:1395:ALA:HB3	1.77	0.49
30:Q3:1344:LEU:HD13	30:Q3:1444:GLN:HE22	1.77	0.49
4:QC:88:HIS:HB3	4:QC:91:GLN:HG2	1.94	0.49
4:QC:363:VAL:H	4:QC:368:LEU:HD21	1.77	0.49
3:QD:131:GLN:HB3	3:QD:163:ILE:HD12	1.94	0.49
4:QE:50:ASN:OD1	4:QE:51:THR:N	2.45	0.49
4:QG:68:VAL:HA	4:QG:93:ILE:HB	1.93	0.49
3:QH:12:CYS:SG	39:QH:501:GTP:H5'	2.52	0.49
3:QH:81:PHE:O	3:QH:84:ILE:HG22	2.11	0.49
3:QJ:239:CYS:SG	3:QJ:316:VAL:HG11	2.52	0.49
31:R1:139:MET:HG3	31:R1:142:ARG:HH21	1.78	0.49
31:R3:118:ARG:HE	31:R3:148:ARG:HH12	1.60	0.49
4:RC:22:GLU:HG2	4:RC:83:TYR:CE2	2.47	0.49
3:RD:33:THR:O	3:RD:58:LYS:NZ	2.46	0.49
3:RF:114:ASP:OD1	3:RF:115:SER:N	2.45	0.49
3:RF:218:THR:OG1	3:RF:219:THR:N	2.45	0.49
4:RG:5:ILE:HD13	4:RG:64:ARG:HB3	1.95	0.49
4:RK:51:THR:HG23	4:RK:52:PHE:CD2	2.47	0.49
3:SD:246:LEU:HB2	3:SD:352:ALA:HB1	1.94	0.49
3:SD:322:SER:OG	3:SD:323:MET:SD	2.70	0.49
3:SF:273:LEU:H	3:SF:292:GLN:HE22	1.60	0.49
4:SG:102:ASN:HB3	4:SG:105:ARG:HB2	1.94	0.49
4:SG:208:ALA:H	4:SG:304:LYS:NZ	2.10	0.49
3:SH:12:CYS:SG	39:SH:501:GTP:H5'	2.52	0.49
4:SI:256:GLN:O	4:SI:260:VAL:HG12	2.12	0.49
4:SK:67:PHE:O	4:SK:93:ILE:N	2.45	0.49
3:SL:2:ARG:HB3	3:SL:131:GLN:NE2	2.27	0.49
4:SM:50:ASN:OD1	4:SM:51:THR:N	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:SM:172:TYR:HD1	4:SM:203:MET:HG2	1.77	0.49
4:TC:370:LYS:HB3	36:Y:215:GLN:HE22	1.76	0.49
3:TF:2:ARG:HB3	3:TF:131:GLN:CD	2.38	0.49
3:TF:114:ASP:OD1	3:TF:115:SER:N	2.45	0.49
4:TG:70:LEU:HB2	4:TG:145:THR:HG21	1.93	0.49
4:TG:269:LEU:N	4:TG:379:SER:O	2.41	0.49
3:TH:254:ALA:HA	3:TH:257:MET:HG2	1.94	0.49
3:TH:324:LYS:HE2	4:TI:222:PRO:HD2	1.93	0.49
3:TJ:182:PRO:HB2	3:TJ:388:MET:HE1	1.94	0.49
3:TL:360:GLY:HA2	36:Z:287:GLU:CD	2.36	0.49
4:TM:1:MET:N	4:TM:130:THR:OG1	2.45	0.49
33:U:450:LEU:HA	33:U:453:GLN:HE21	1.77	0.49
4:UA:67:PHE:HB2	4:UA:92:LEU:HD13	1.92	0.49
3:UB:415:MET:O	3:UB:419:VAL:HG23	2.12	0.49
4:UE:321:GLY:HA3	4:UE:372:GLN:O	2.12	0.49
3:UF:309:ARG:H	3:UF:372:THR:HG1	1.54	0.49
3:UH:218:THR:OG1	3:UH:219:THR:N	2.45	0.49
3:UL:302:ALA:HB1	3:UL:377:LEU:HD11	1.94	0.49
4:VC:102:ASN:HB3	4:VC:105:ARG:HB2	1.94	0.49
3:VD:32:PRO:O	3:VD:83:GLN:NE2	2.39	0.49
3:VD:176:SER:O	3:VD:178:THR:N	2.45	0.49
3:VD:415:MET:O	3:VD:419:VAL:HG23	2.12	0.49
3:VF:2:ARG:NH2	4:VG:97:GLU:OE2	2.45	0.49
4:VI:244:PHE:HB2	4:VI:356:ASN:HD21	1.76	0.49
4:VI:260:VAL:O	3:VJ:397:TRP:HH2	1.95	0.49
4:VK:282:TYR:HB2	33:X:424:ARG:NH1	2.27	0.49
4:WE:119:LEU:HD23	4:WE:122:ILE:HD11	1.94	0.49
4:WG:174:ALA:HB3	4:WG:177:VAL:O	2.12	0.49
4:WI:54:SER:N	4:WI:62:VAL:O	2.45	0.49
4:WK:61:HIS:O	4:WK:86:LEU:HD11	2.11	0.49
3:WL:3:GLU:HG2	3:WL:130:LEU:HD23	1.93	0.49
3:WL:268:PRO:HD2	3:WL:301:ALA:HB2	1.93	0.49
34:XD:164:ARG:NH2	34:XD:181:PHE:HA	2.26	0.49
34:XE:90:GLU:HG2	34:XE:155:GLN:HB3	1.94	0.49
34:XE:185:LEU:HD23	34:XE:185:LEU:H	1.78	0.49
34:XF:11:LEU:HD13	34:XF:71:ILE:HD12	1.93	0.49
34:XF:103:PHE:HB3	34:XF:121:MET:HE1	1.93	0.49
35:XK:170:LEU:HD12	35:XK:173:TYR:HB2	1.93	0.49
37:YG:15:TYR:O	37:YG:19:GLN:HG2	2.12	0.49
37:YI:46:ILE:HG22	37:YI:50:GLN:HE22	1.77	0.49
37:YS:137:VAL:HG13	37:YS:138:VAL:HG13	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:Z:386:GLU:HA	36:Z:389:ARG:HG2	1.94	0.49
1:A:163:MET:HA	1:A:166:HIS:CD2	2.47	0.49
2:A4:55:SER:O	2:A4:59:VAL:HG23	2.12	0.49
4:AC:67:PHE:HB2	4:AC:92:LEU:HD13	1.95	0.49
4:AE:154:MET:HE3	4:AE:194:THR:HG22	1.93	0.49
4:AE:287:SER:N	4:AE:290:GLU:OE2	2.45	0.49
4:AG:135:PHE:HD2	4:AG:166:LYS:HG3	1.77	0.49
3:AH:150:LEU:C	3:AH:154:LYS:HZ3	2.20	0.49
4:AI:264:ARG:HH12	34:XE:116:PRO:HG2	1.77	0.49
3:AJ:46:ARG:HH22	4:AK:73:THR:HG23	1.77	0.49
4:AK:15:GLN:OE1	39:AK:501:GTP:N1	2.45	0.49
3:AL:250:LEU:O	3:AL:254:ALA:N	2.30	0.49
5:B2:77:THR:O	5:B2:80:LYS:HG2	2.12	0.49
5:B2:120:ARG:NH2	5:B2:386:LEU:HB3	2.27	0.49
5:B2:277:SER:HA	5:B2:280:LYS:HE2	1.94	0.49
5:B4:230:GLU:HA	5:B4:233:MET:HG2	1.94	0.49
5:B6:276:TYR:HE1	5:B6:280:LYS:HD3	1.78	0.49
5:B8:281:TRP:NE1	5:B8:285:ASN:HD21	2.09	0.49
4:BC:52:PHE:HZ	4:BC:239:THR:HB	1.78	0.49
4:BC:272:TYR:CZ	4:BC:274:PRO:HG2	2.47	0.49
3:BF:178:THR:HB	3:BF:181:GLU:HB2	1.93	0.49
4:BG:12:ALA:HB1	39:BG:501:GTP:C2	2.46	0.49
3:BH:380:ARG:O	3:BH:384:GLN:HG2	2.12	0.49
4:BI:115:VAL:O	4:BI:119:LEU:N	2.38	0.49
4:BI:172:TYR:HB2	4:BI:203:MET:HB2	1.93	0.49
3:BJ:139:LEU:HD21	3:BJ:170:VAL:HG22	1.93	0.49
3:BL:12:CYS:HA	39:BL:501:GTP:N2	2.27	0.49
3:BL:41:ASP:HB3	15:H6:10:PHE:HE2	1.77	0.49
3:BL:375:GLN:HA	3:BL:378:PHE:CZ	2.47	0.49
7:C2:167:MET:O	7:C2:171:THR:HG23	2.13	0.49
7:C3:156:TRP:HA	7:C3:159:GLU:OE1	2.12	0.49
7:C4:227:LEU:O	7:C4:231:GLU:HG2	2.13	0.49
7:C6:154:ALA:HA	7:C6:157:LYS:HE3	1.95	0.49
7:C7:358:LYS:HA	7:C7:462:LYS:NZ	2.27	0.49
3:CB:250:LEU:O	3:CB:254:ALA:N	2.34	0.49
4:CC:50:ASN:OD1	4:CC:51:THR:N	2.45	0.49
3:CD:36:TYR:CE2	3:CD:44:LEU:HD13	2.47	0.49
4:CE:98:ASP:O	4:CE:105:ARG:NH2	2.33	0.49
4:CE:115:VAL:HA	4:CE:118:VAL:HG22	1.94	0.49
3:CF:141:GLY:HA3	39:CF:501:GTP:H5"	1.94	0.49
3:CF:372:THR:HB	3:CF:375:GLN:HE22	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CG:17:GLY:O	4:CG:21:TRP:HD1	1.95	0.49
4:CG:372:GLN:HE21	14:G5:222:PHE:HE2	1.59	0.49
3:CH:91:VAL:HG11	3:CH:116:VAL:HG12	1.94	0.49
4:CI:245:ASP:O	4:CI:356:ASN:ND2	2.45	0.49
4:CM:272:TYR:CZ	4:CM:274:PRO:HG2	2.46	0.49
4:CM:392:ASP:OD1	4:CM:393:HIS:N	2.45	0.49
7:Cc:145:ASN:O	7:Cc:148:GLU:HG3	2.12	0.49
7:Cd:189:GLU:OE1	7:Cd:189:GLU:N	2.42	0.49
8:D2:291:GLU:O	8:D2:295:LEU:HG	2.11	0.49
8:D4:121:ILE:HD11	8:D4:211:CYS:HB3	1.93	0.49
8:D8:195:GLY:O	8:D8:198:VAL:HG22	2.12	0.49
8:D9:431:MET:SD	8:D9:431:MET:N	2.86	0.49
4:DA:3:GLU:OE2	4:DA:130:THR:N	2.39	0.49
4:DE:21:TRP:CD1	4:DE:53:PHE:HE1	2.30	0.49
4:DE:208:ALA:H	4:DE:304:LYS:NZ	2.09	0.49
39:DF:501:GTP:O3G	39:DF:501:GTP:O3'	2.22	0.49
4:DI:224:TYR:HA	4:DI:227:LEU:HB2	1.94	0.49
4:DK:318:LEU:O	4:DK:375:VAL:HA	2.11	0.49
3:DL:11:GLN:NE2	39:DL:501:GTP:H3'	2.27	0.49
9:E:587:GLN:HA	9:E:590:PHE:CE2	2.47	0.49
10:E1:48:ARG:HG2	10:E1:49:TRP:H	1.78	0.49
10:E3:170:LEU:HD23	10:E3:175:ARG:HB2	1.95	0.49
3:ED:311:LEU:O	3:ED:348:ASN:ND2	2.40	0.49
3:EF:8:GLN:HG2	3:EF:65:LEU:HA	1.95	0.49
3:EF:51:TYR:CD1	3:EF:61:PRO:HA	2.47	0.49
3:EF:70:PRO:HA	3:EF:73:MET:HE3	1.94	0.49
3:EH:28:HIS:O	3:EH:43:GLN:NE2	2.46	0.49
3:EH:211:CYS:HA	3:EH:215:LEU:HD12	1.94	0.49
4:EI:136:LEU:HB3	4:EI:138:PHE:CZ	2.47	0.49
3:EJ:240:LEU:HA	3:EJ:248:ALA:HB1	1.95	0.49
4:EK:54:SER:N	4:EK:62:VAL:O	2.46	0.49
11:F6:262:TYR:O	11:F6:266:ASN:ND2	2.45	0.49
11:F8:470:MET:HB3	11:F8:473:ARG:HH21	1.78	0.49
4:FA:15:GLN:OE1	39:FA:501:GTP:C6	2.60	0.49
4:FC:392:ASP:OD1	4:FC:393:HIS:N	2.46	0.49
3:FD:11:GLN:HG3	39:FD:501:GTP:PA	2.52	0.49
3:FD:39:ASP:OD1	3:FD:43:GLN:NE2	2.45	0.49
4:FE:399:TYR:OH	4:FE:415:GLU:HG3	2.12	0.49
3:FH:302:ALA:HB1	3:FH:377:LEU:HD21	1.93	0.49
3:FH:378:PHE:HA	3:FH:381:ILE:HG22	1.93	0.49
3:FJ:70:PRO:HA	3:FJ:73:MET:HE3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FJ:268:PRO:HD2	3:FJ:301:ALA:HB2	1.94	0.49
3:FL:117:LEU:HD21	3:FL:154:LYS:HD3	1.93	0.49
11:Fg:157:CYS:O	11:Fg:160:LEU:HG	2.11	0.49
11:Fi:193:GLU:O	11:Fi:197:ASN:ND2	2.45	0.49
12:G:404:ARG:NH2	4:GC:370:LYS:HD3	2.27	0.49
13:G1:113:GLU:HG3	13:G1:115:TYR:O	2.13	0.49
13:G1:420:LEU:HD13	13:G1:442:TYR:HD2	1.75	0.49
13:G3:423:LEU:HB2	13:G3:507:ASP:CG	2.38	0.49
14:G5:386:ILE:HG22	14:G5:387:GLU:N	2.27	0.49
14:G6:203:THR:HA	14:G6:206:PHE:HB3	1.95	0.49
4:GA:89:PRO:HD2	4:HA:280:LYS:HZ3	1.78	0.49
4:GA:246:GLY:HA2	4:GA:357:TYR:HD2	1.77	0.49
4:GE:21:TRP:HD1	4:GE:53:PHE:CE1	2.31	0.49
4:GE:386:GLU:HA	4:GE:389:ALA:HB3	1.94	0.49
4:GG:47:ASP:HB3	4:GG:49:PHE:CE2	2.47	0.49
4:GG:288:VAL:O	4:GG:292:THR:OG1	2.25	0.49
4:GI:115:VAL:O	4:GI:119:LEU:N	2.33	0.49
4:GK:244:PHE:CB	4:GK:356:ASN:HD21	2.25	0.49
15:H1:212:LEU:HD23	15:H1:212:LEU:H	1.77	0.49
15:H5:291:SER:OG	15:H5:314:ARG:NH2	2.45	0.49
15:H6:292:MET:O	15:H6:294:ASP:N	2.46	0.49
15:H6:302:ASN:HA	15:H6:305:ARG:HG2	1.93	0.49
4:HA:139:HIS:CD2	4:HA:170:ALA:HB2	2.47	0.49
4:HA:346:TRP:O	3:HB:388:MET:HE1	2.12	0.49
4:HC:88:HIS:HB3	4:HC:91:GLN:HB3	1.93	0.49
4:HE:9:VAL:HA	4:HE:68:VAL:HG23	1.93	0.49
4:HE:264:ARG:O	4:HE:266:HIS:ND1	2.41	0.49
4:HE:311:LYS:HE3	4:HE:344:VAL:HG12	1.94	0.49
3:HF:2:ARG:HB3	3:HF:131:GLN:NE2	2.27	0.49
3:HF:290:THR:HA	3:HF:293:MET:HG3	1.95	0.49
3:HF:375:GLN:HA	3:HF:378:PHE:CZ	2.47	0.49
4:HG:207:GLU:HB2	4:HG:304:LYS:HZ1	1.76	0.49
4:HG:405:VAL:O	4:HG:409:VAL:HG22	2.12	0.49
4:HI:321:GLY:HA3	4:HI:372:GLN:O	2.12	0.49
4:IA:11:GLN:HG3	39:IA:501:GTP:O1B	2.13	0.49
4:IA:216:ASN:HB2	4:IA:276:ILE:HD12	1.94	0.49
4:IC:392:ASP:OD1	4:IC:393:HIS:N	2.45	0.49
4:IC:426:ALA:O	4:IC:430:LYS:HE2	2.12	0.49
3:IF:323:MET:SD	3:IF:323:MET:N	2.82	0.49
4:IK:12:ALA:HB1	39:IK:501:GTP:C2	2.47	0.49
4:IK:331:ALA:O	4:IK:334:THR:OG1	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IL:230:SER:O	3:IL:234:SER:N	2.39	0.49
3:JB:51:TYR:HB3	3:JB:59:TYR:HB3	1.94	0.49
3:JB:81:PHE:O	3:JB:84:ILE:HG22	2.12	0.49
3:JB:120:VAL:O	3:JB:124:ALA:N	2.39	0.49
3:JB:172:SER:OG	3:JB:205:GLU:OE2	2.22	0.49
3:JB:285:THR:O	3:JB:288:GLU:HG3	2.12	0.49
3:JD:12:CYS:HB3	39:JD:501:GTP:H5'	1.95	0.49
4:JE:287:SER:OG	4:JE:290:GLU:OE1	2.29	0.49
3:JH:250:LEU:HD13	3:JH:253:LEU:HD12	1.94	0.49
3:JJ:52:ASN:ND2	3:JJ:62:ARG:HD3	2.27	0.49
3:JJ:141:GLY:HA3	39:JJ:501:GTP:H5"	1.94	0.49
3:JJ:206:ALA:O	3:JJ:210:ILE:HG12	2.12	0.49
3:JJ:405:GLU:O	3:JJ:409:THR:HG23	2.13	0.49
39:JJ:501:GTP:O3G	39:JJ:501:GTP:O3'	2.20	0.49
4:JK:36:MET:HE3	4:JK:61:HIS:CE1	2.47	0.49
4:JK:102:ASN:HB3	4:JK:105:ARG:HB2	1.94	0.49
3:JL:206:ALA:O	3:JL:210:ILE:HG12	2.12	0.49
4:KA:166:LYS:N	4:KA:199:ASP:OD2	2.46	0.49
4:KC:390:ARG:HA	4:KC:393:HIS:CD2	2.48	0.49
3:KD:91:VAL:HG11	3:KD:116:VAL:HG12	1.94	0.49
3:KD:152:ILE:O	3:KD:156:ARG:HG2	2.11	0.49
4:KE:207:GLU:HB2	4:KE:304:LYS:NZ	2.27	0.49
3:KJ:11:GLN:HG3	39:KJ:501:GTP:PA	2.51	0.49
4:KK:306:ASP:OD2	4:NK:282:TYR:OH	2.21	0.49
3:KL:12:CYS:HA	39:KL:501:GTP:N2	2.28	0.49
20:L:240:ARG:HA	20:L:245:LYS:HD2	1.93	0.49
22:L1:80:ARG:HH21	4:LA:193:THR:HA	1.76	0.49
22:L3:124:ILE:O	4:LK:113:GLU:HB3	2.11	0.49
4:LC:36:MET:HG3	4:LC:41:THR:OG1	2.12	0.49
4:LI:16:ILE:HG13	4:LI:17:GLY:N	2.28	0.49
4:LI:216:ASN:OD1	4:LI:217:LEU:N	2.45	0.49
4:LK:263:PRO:HB2	4:LK:264:ARG:NH1	2.28	0.49
3:LL:293:MET:HE3	3:LL:293:MET:O	2.13	0.49
24:M1:48:LYS:NZ	24:M1:92:TYR:HB3	2.28	0.49
24:M1:98:HIS:ND1	24:M1:98:HIS:O	2.45	0.49
3:MB:386:THR:O	3:MB:390:ARG:N	2.45	0.49
4:MC:115:VAL:O	4:MC:119:LEU:N	2.35	0.49
4:ME:225:THR:O	4:ME:229:ARG:HB2	2.12	0.49
3:MF:2:ARG:HA	3:MF:129:CYS:O	2.11	0.49
3:MF:130:LEU:HB2	3:MF:162:ARG:HH11	1.77	0.49
4:MG:103:TYR:HB2	4:MG:186:ASN:HB2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MI:286:LEU:HD21	4:MI:372:GLN:HE21	1.75	0.49
4:MM:285:GLN:HE21	27:P:36:ILE:HG23	1.77	0.49
25:N:90:GLU:HA	25:N:93:LYS:HB2	1.95	0.49
4:NA:2:ARG:HA	4:NA:133:GLN:NE2	2.28	0.49
3:NB:81:PHE:O	3:NB:84:ILE:HG22	2.12	0.49
3:ND:412:GLU:HA	3:ND:415:MET:HE2	1.94	0.49
4:NG:115:VAL:HG21	4:NG:156:ARG:HD3	1.95	0.49
3:NH:398:TYR:HB3	3:NH:403:MET:HB2	1.93	0.49
3:OF:292:GLN:O	3:OF:298:ASN:ND2	2.38	0.49
3:OF:372:THR:HG21	3:OF:426:GLN:HG3	1.93	0.49
3:OF:398:TYR:O	3:OF:402:GLY:N	2.44	0.49
4:OG:70:LEU:HA	4:OG:95:GLY:HA3	1.94	0.49
3:OH:172:SER:OG	3:OH:205:GLU:OE2	2.22	0.49
3:OJ:109:GLY:O	3:OJ:113:VAL:HG13	2.11	0.49
4:OK:6:SER:HB3	4:OK:65:ALA:HB2	1.95	0.49
4:OK:272:TYR:CZ	4:OK:274:PRO:HG2	2.47	0.49
3:OL:141:GLY:HA3	39:OL:501:GTP:H5"	1.95	0.49
3:OL:309:ARG:O	3:OL:371:SER:OG	2.26	0.49
29:P1:569:VAL:HG13	29:P1:590:ILE:HD13	1.94	0.49
29:P2:221:TYR:HA	29:P2:230:LEU:O	2.13	0.49
29:P3:48:LEU:HB3	29:P3:50:GLN:HE22	1.77	0.49
29:P3:188:ASP:OD2	29:P3:191:ASN:ND2	2.41	0.49
4:PA:9:VAL:HG11	4:PA:150:ALA:HB2	1.94	0.49
4:PA:12:ALA:HB1	39:PA:501:GTP:N2	2.28	0.49
4:PA:49:PHE:O	4:PA:53:PHE:N	2.42	0.49
3:PB:81:PHE:O	3:PB:84:ILE:HG22	2.13	0.49
3:PD:305:PRO:HB2	3:PD:310:TYR:HE1	1.77	0.49
3:PF:250:LEU:O	3:PF:254:ALA:N	2.39	0.49
3:PH:5:VAL:HG23	3:PH:130:LEU:HD11	1.94	0.49
4:PM:160:ASP:OD1	4:PM:161:TYR:N	2.46	0.49
4:PM:319:TYR:HB2	4:PM:355:ILE:HD13	1.94	0.49
3:QB:3:GLU:OE2	3:QB:127:CYS:HB2	2.12	0.49
3:QB:41:ASP:N	37:YB:20:GLN:HG2	2.27	0.49
3:QB:84:ILE:O	3:QB:86:ARG:NH1	2.45	0.49
4:QC:152:LEU:HD12	4:QC:153:LEU:N	2.28	0.49
3:QF:12:CYS:SG	39:QF:501:GTP:H5'	2.52	0.49
3:QH:290:THR:HG21	3:QH:329:GLN:HB3	1.94	0.49
3:QJ:12:CYS:SG	39:QJ:501:GTP:H5'	2.52	0.49
4:QK:68:VAL:HG12	4:QK:93:ILE:HB	1.94	0.49
4:QK:186:ASN:OD1	4:QK:187:SER:N	2.45	0.49
31:R2:125:ARG:HA	31:R2:128:VAL:HB	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:RC:351:PHE:CE2	3:RD:177:ASP:HA	2.47	0.49
3:RD:2:ARG:HB3	3:RD:131:GLN:NE2	2.27	0.49
4:RE:5:ILE:HD13	4:RE:64:ARG:HB3	1.94	0.49
4:RE:287:SER:OG	4:RE:290:GLU:OE1	2.30	0.49
3:RF:101:TRP:HB2	3:RF:184:ASN:HD22	1.78	0.49
4:SG:113:GLU:OE1	4:SG:113:GLU:N	2.42	0.49
3:SJ:173:PRO:HD3	3:SJ:203:ASP:OD1	2.12	0.49
3:SJ:234:SER:O	3:SJ:238:THR:HG23	2.12	0.49
4:SK:50:ASN:OD1	4:SK:51:THR:N	2.44	0.49
4:SK:311:LYS:NZ	4:SK:343:PHE:O	2.44	0.49
3:SL:156:ARG:NH1	3:SL:195:ASN:O	2.44	0.49
4:SM:113:GLU:N	4:SM:113:GLU:OE1	2.44	0.49
3:TD:375:GLN:HA	3:TD:378:PHE:CZ	2.47	0.49
4:TE:16:ILE:HD11	4:TE:138:PHE:HB3	1.94	0.49
4:TG:178:SER:OG	4:TG:180:ALA:O	2.30	0.49
3:TJ:28:HIS:ND1	3:TJ:43:GLN:HB2	2.28	0.49
3:TJ:55:THR:HB	33:U:286:MET:HE1	1.94	0.49
3:TJ:305:PRO:HB2	3:TJ:310:TYR:HE1	1.76	0.49
4:TK:54:SER:N	4:TK:62:VAL:O	2.45	0.49
4:TK:115:VAL:HA	4:TK:118:VAL:HG22	1.95	0.49
3:TL:394:PHE:HA	3:TL:397:TRP:HZ3	1.77	0.49
4:TM:36:MET:HG3	4:TM:41:THR:OG1	2.12	0.49
3:TN:3:GLU:OE2	3:TN:127:CYS:HB2	2.13	0.49
33:U:265:ILE:HA	33:U:268:ASN:ND2	2.26	0.49
3:UB:4:ILE:HB	3:UB:50:TYR:CE1	2.47	0.49
3:UB:172:SER:OG	3:UB:205:GLU:OE2	2.23	0.49
4:UC:113:GLU:OE1	4:UC:113:GLU:N	2.43	0.49
4:UC:405:VAL:O	4:UC:409:VAL:HG22	2.12	0.49
4:UE:12:ALA:HB1	39:UE:501:GTP:N3	2.26	0.49
4:UE:154:MET:HE2	4:UE:194:THR:HG22	1.94	0.49
3:UF:114:ASP:N	3:UF:114:ASP:OD1	2.44	0.49
3:UH:250:LEU:HD13	3:UH:253:LEU:HD12	1.94	0.49
4:UI:269:LEU:N	4:UI:379:SER:O	2.40	0.49
3:UL:268:PRO:HD2	3:UL:301:ALA:HB2	1.94	0.49
3:VB:309:ARG:O	3:VB:371:SER:OG	2.26	0.49
3:VD:322:SER:N	3:VD:325:GLU:OE2	2.45	0.49
4:VG:178:SER:OG	4:VG:180:ALA:O	2.30	0.49
3:VH:120:VAL:O	3:VH:124:ALA:N	2.39	0.49
4:VI:230:LEU:O	4:VI:234:ILE:HG12	2.12	0.49
4:VK:22:GLU:O	4:VK:26:LEU:HD23	2.11	0.49
4:WA:68:VAL:HG12	4:WA:93:ILE:HB	1.92	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:WB:257:MET:O	3:WB:259:PRO:HD3	2.12	0.49
4:WG:3:GLU:CD	4:WG:131:GLY:H	2.20	0.49
4:WI:70:LEU:HA	4:WI:95:GLY:HA3	1.94	0.49
4:WI:116:ASP:N	4:WI:116:ASP:OD1	2.45	0.49
4:WI:390:ARG:HA	4:WI:393:HIS:CD2	2.47	0.49
4:WK:324:VAL:HG21	3:WL:219:THR:HG22	1.95	0.49
3:WL:7:LEU:HD13	3:WL:64:VAL:HB	1.94	0.49
33:X:417:GLU:HB3	33:X:421:ARG:HH21	1.77	0.49
34:XD:113:ARG:HG3	34:XD:115:LYS:HE3	1.94	0.49
34:XG:84:LYS:HE2	35:XM:237:SER:C	2.36	0.49
35:XH:180:ILE:O	35:XH:183:ILE:HG12	2.13	0.49
35:XI:104:THR:H	35:XI:108:GLU:HG3	1.77	0.49
35:XM:130:ILE:HG13	35:XM:131:PRO:CD	2.42	0.49
36:Y:212:HIS:HA	36:Y:215:GLN:HB2	1.93	0.49
37:YB:6:GLU:HA	37:YB:9:ARG:HE	1.78	0.49
37:YB:81:GLN:HA	37:YB:84:GLU:HB2	1.94	0.49
37:YK:25:PHE:HE1	37:YK:66:LEU:HA	1.77	0.49
37:YK:82:HIS:O	37:YK:86:LEU:HD23	2.11	0.49
37:YL:41:ARG:HH12	37:YL:45:SER:H	1.59	0.49
37:YO:45:SER:HB3	37:YO:48:GLN:OE1	2.12	0.49
37:YR:155:SER:HA	37:YR:158:LEU:HG	1.93	0.49
37:YS:22:GLN:HG3	37:YS:121:VAL:HG13	1.94	0.49
37:YS:25:PHE:HD1	37:YS:65:ILE:HG13	1.76	0.49
37:YT:26:ILE:HD12	37:YT:134:TYR:CE1	2.46	0.49
37:YU:15:TYR:CZ	37:YU:141:ILE:HG21	2.47	0.49
2:A1:285:VAL:HA	2:A2:31:ARG:HH12	1.77	0.49
4:AE:105:ARG:O	4:AE:109:THR:OG1	2.22	0.49
3:AF:152:ILE:HD12	3:AF:195:ASN:HB2	1.92	0.49
3:AH:73:MET:HA	3:AH:76:VAL:HG22	1.94	0.49
3:AH:164:MET:HE3	3:AH:196:THR:C	2.37	0.49
3:AJ:3:GLU:HG2	3:AJ:130:LEU:HD23	1.94	0.49
3:AJ:252:LYS:O	3:AJ:256:ASN:ND2	2.45	0.49
3:AJ:347:ASN:HB3	4:AK:178:SER:HB3	1.94	0.49
5:B2:329:LEU:HD21	5:B3:209:PRO:HG2	1.94	0.49
5:B6:268:ARG:HG3	5:B6:272:MET:CE	2.35	0.49
3:BH:80:PRO:O	3:BH:83:GLN:NE2	2.38	0.49
3:BH:324:LYS:HE2	4:BI:222:PRO:HD2	1.94	0.49
3:BH:357:PRO:HB3	3:BH:362:LYS:HA	1.95	0.49
4:BI:171:ILE:HD12	4:BI:204:VAL:HG13	1.92	0.49
4:BI:186:ASN:OD1	4:BI:187:SER:N	2.45	0.49
4:BK:30:ILE:HG13	4:BK:53:PHE:HE2	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BM:319:TYR:N	4:BM:354:GLY:O	2.46	0.49
7:C3:191:PRO:HA	7:C3:194:VAL:HB	1.94	0.49
7:C4:363:THR:HG22	7:C4:367:LYS:NZ	2.27	0.49
3:CB:130:LEU:HB2	3:CB:162:ARG:NH1	2.28	0.49
4:CC:39:ASP:HB3	14:G4:231:ARG:NH2	2.28	0.49
3:CD:372:THR:HB	3:CD:375:GLN:HE22	1.78	0.49
3:CF:324:LYS:HG3	4:CG:221:ARG:NH1	2.28	0.49
4:CG:45:GLY:HA2	4:CG:49:PHE:HE1	1.78	0.49
4:CG:386:GLU:O	4:CG:390:ARG:N	2.43	0.49
3:CH:330:MET:HG2	3:CH:349:VAL:HG11	1.94	0.49
4:CI:5:ILE:HD13	4:CI:64:ARG:HB3	1.94	0.49
4:CI:175:PRO:HB2	4:CI:390:ARG:NH1	2.28	0.49
4:CI:395:PHE:HA	4:CI:398:MET:HG3	1.94	0.49
3:CJ:305:PRO:HA	3:CJ:373:ALA:HB2	1.95	0.49
4:CK:321:GLY:N	4:CK:356:ASN:O	2.31	0.49
7:Ca:406:ARG:NH1	7:Ca:412:CYS:H	2.11	0.49
6:D:141:LYS:HB2	6:D:181:GLU:HB3	1.94	0.49
6:D:179:ALA:O	6:D:180:MET:HE2	2.12	0.49
6:D:252:THR:OG1	6:D:288:SER:O	2.23	0.49
8:D1:78:ARG:HD3	8:D2:335:GLN:HE22	1.77	0.49
8:D2:239:GLN:H	8:D3:351:ARG:HD2	1.78	0.49
8:D3:389:ARG:O	8:D3:392:LYS:HG2	2.11	0.49
8:D4:138:LEU:HD22	8:D4:194:ILE:HD13	1.93	0.49
8:D7:434:ARG:HD2	8:D7:437:TYR:HE2	1.77	0.49
4:DA:16:ILE:HD11	4:DA:138:PHE:HB3	1.93	0.49
4:DA:42:ILE:HG12	4:DA:55:GLU:OE2	2.12	0.49
4:DA:68:VAL:HG12	4:DA:93:ILE:HB	1.94	0.49
3:DD:2:ARG:HA	3:DD:129:CYS:O	2.12	0.49
4:DE:234:ILE:HD11	4:DE:272:TYR:HB2	1.94	0.49
3:DJ:289:LEU:O	3:DJ:293:MET:N	2.39	0.49
4:DK:295:CYS:HB2	4:DK:377:MET:HG2	1.95	0.49
3:DL:172:SER:HB3	3:DL:175:VAL:O	2.13	0.49
3:DL:206:ALA:O	3:DL:210:ILE:HG12	2.12	0.49
8:Da:93:GLN:O	8:Da:97:LEU:HG	2.12	0.49
9:E:417:ARG:NH2	3:IB:227:HIS:H	2.10	0.49
4:EA:295:CYS:HB2	4:EA:377:MET:HE3	1.95	0.49
4:EA:316:CYS:HB3	4:EA:378:LEU:HB3	1.93	0.49
4:EA:322:ASP:OD2	4:EA:373:ARG:NH2	2.44	0.49
4:EC:167:LEU:HD13	4:EC:200:CYS:HB2	1.93	0.49
4:EG:70:LEU:HB3	4:EG:97:GLU:O	2.12	0.49
3:EL:130:LEU:HB2	3:EL:162:ARG:NH1	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:F1:465:ASP:OD1	11:F1:466:LYS:N	2.45	0.49
11:F4:105:ASN:OD1	11:Fm:443:LEU:HD11	2.12	0.49
11:F6:163:LEU:O	11:F6:166:GLU:HG2	2.13	0.49
11:F9:410:ASP:O	11:F9:413:GLN:HG2	2.13	0.49
4:FA:318:LEU:O	4:FA:375:VAL:HA	2.13	0.49
4:FG:1:MET:O	4:FG:133:GLN:NE2	2.42	0.49
3:FH:282:ARG:NH2	3:FH:292:GLN:OE1	2.31	0.49
4:FI:217:LEU:HD13	4:FI:277:SER:HA	1.95	0.49
4:FI:397:LEU:O	4:FI:401:LYS:HG2	2.11	0.49
4:FK:116:ASP:N	4:FK:116:ASP:OD1	2.44	0.49
11:Fa:356:LYS:O	11:Fa:359:THR:OG1	2.29	0.49
11:Fb:96:ASP:OD1	11:Fb:97:ARG:N	2.45	0.49
11:Fb:174:LYS:HE3	11:Fb:240:ILE:HG21	1.95	0.49
11:Fg:167:ASN:OD1	11:Fg:247:GLN:NE2	2.45	0.49
11:Fi:198:ARG:HD2	11:Fi:199:GLU:N	2.28	0.49
11:Fm:188:LEU:HA	11:Fm:222:LEU:HD13	1.94	0.49
12:G:59:GLU:HG2	3:JL:94:GLN:NE2	2.28	0.49
13:G1:171:GLY:O	13:G1:182:ARG:NH1	2.45	0.49
13:G1:264:ILE:HD12	13:G1:275:ILE:HG13	1.94	0.49
13:G2:248:ILE:HD12	13:G2:261:HIS:CE1	2.48	0.49
13:G3:411:LYS:NZ	13:G3:447:ASP:OD1	2.46	0.49
14:G4:249:PHE:HB3	14:G4:262:ILE:HG23	1.94	0.49
14:G4:418:PHE:O	14:G4:422:MET:HG2	2.12	0.49
14:G5:462:THR:HB	14:G5:483:ARG:C	2.37	0.49
14:G5:683:ASP:H	14:G5:686:HIS:HA	1.78	0.49
14:G6:25:HIS:HD2	14:G6:40:LYS:HG3	1.77	0.49
4:GC:15:GLN:OE1	39:GC:501:GTP:N1	2.45	0.49
3:GD:87:PRO:HA	3:GD:90:PHE:CD2	2.47	0.49
4:GE:119:LEU:HA	4:GE:122:ILE:HG22	1.94	0.49
3:GF:234:SER:O	3:GF:238:THR:HG23	2.13	0.49
3:GF:318:ARG:C	3:GF:321:MET:HE1	2.38	0.49
3:GH:32:PRO:O	3:GH:83:GLN:NE2	2.42	0.49
4:GI:137:ILE:HB	4:GI:168:GLU:HA	1.94	0.49
4:GK:345:ASP:N	4:GK:345:ASP:OD1	2.46	0.49
3:GL:6:HIS:NE2	3:GL:136:THR:HG23	2.28	0.49
15:H6:38:THR:O	15:H6:42:LEU:HG	2.12	0.49
4:HA:3:GLU:N	4:HA:133:GLN:OE1	2.45	0.49
4:HC:116:ASP:N	4:HC:116:ASP:OD1	2.44	0.49
3:HD:8:GLN:OE1	3:HD:8:GLN:N	2.45	0.49
3:HD:138:SER:HB3	39:HD:501:GTP:H5"	1.93	0.49
4:IE:362:VAL:HA	4:IE:368:LEU:HD11	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IH:31:ASP:OD2	3:IH:33:THR:OG1	2.30	0.49
3:IH:269:GLY:O	3:IH:367:PHE:N	2.40	0.49
4:IK:220:GLU:OE1	4:IK:220:GLU:N	2.44	0.49
4:JA:187:SER:O	4:JA:190:THR:OG1	2.22	0.49
4:JA:260:VAL:HG23	4:JA:265:ILE:O	2.12	0.49
4:JA:346:TRP:HH2	3:JB:390:ARG:HB3	1.78	0.49
4:JG:139:HIS:CD2	4:JG:170:ALA:HB2	2.48	0.49
3:JH:114:ASP:OD1	3:JH:115:SER:N	2.45	0.49
4:JK:287:SER:N	4:JK:290:GLU:OE2	2.44	0.49
3:JL:162:ARG:HA	3:JL:251:ARG:HH21	1.77	0.49
3:JL:295:ASP:HB2	3:JL:298:ASN:HB2	1.94	0.49
21:K2:46:MET:HE2	21:K2:108:ARG:NH1	2.27	0.49
21:K2:221:GLU:HA	21:K2:224:LEU:HD12	1.95	0.49
21:K4:176:GLN:O	21:K4:179:VAL:HG22	2.13	0.49
4:KA:208:ALA:H	4:KA:304:LYS:NZ	2.10	0.49
4:KA:252:LEU:HA	4:KA:255:PHE:HD2	1.77	0.49
3:KB:350:LYS:HE3	4:KC:181:VAL:H	1.77	0.49
3:KB:375:GLN:C	3:KB:379:LYS:HZ2	2.19	0.49
3:KD:64:VAL:HA	3:KD:89:ASN:OD1	2.12	0.49
3:KD:380:ARG:O	3:KD:384:GLN:HG2	2.12	0.49
3:KD:406:MET:O	3:KD:409:THR:OG1	2.25	0.49
4:KE:52:PHE:HZ	4:KE:239:THR:HB	1.77	0.49
4:KE:324:VAL:HG21	3:KF:219:THR:HG22	1.94	0.49
3:KF:17:GLY:HA2	3:KF:20:PHE:HB3	1.94	0.49
4:KG:113:GLU:OE1	4:KG:113:GLU:N	2.44	0.49
4:KI:51:THR:HG23	4:KI:52:PHE:CD2	2.47	0.49
20:L:48:LYS:O	20:L:52:ARG:HG2	2.11	0.49
22:L3:244:ILE:HA	22:L3:250:ILE:HD13	1.94	0.49
22:L4:77:LYS:O	22:L4:78:PHE:HB3	2.12	0.49
4:LA:429:GLU:O	4:LA:432:TYR:N	2.46	0.49
4:LC:334:THR:O	4:LC:337:THR:OG1	2.26	0.49
3:LD:290:THR:HG21	3:LD:329:GLN:HB3	1.95	0.49
3:LD:292:GLN:O	3:LD:298:ASN:ND2	2.39	0.49
4:LE:319:TYR:HB2	4:LE:355:ILE:HD13	1.94	0.49
3:LF:91:VAL:HG11	3:LF:116:VAL:HG12	1.95	0.49
3:LF:295:ASP:HB2	3:LF:298:ASN:HB2	1.94	0.49
3:LF:332:ASN:O	3:LF:336:LYS:HG2	2.13	0.49
3:LF:423:GLN:NE2	3:LF:427:ASP:HB2	2.28	0.49
4:LG:196:GLU:OE1	4:LG:196:GLU:N	2.38	0.49
3:LH:324:LYS:HD2	4:LI:221:ARG:HA	1.94	0.49
4:LI:53:PHE:O	4:LI:64:ARG:NH1	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:LK:12:ALA:HB1	39:LK:501:GTP:C4	2.47	0.49
4:LK:88:HIS:HB3	4:LK:91:GLN:HB2	1.95	0.49
4:LK:349:THR:HG23	3:LL:179:VAL:HG12	1.94	0.49
3:LL:141:GLY:HA3	39:LL:501:GTP:H5"	1.94	0.49
3:LL:268:PRO:HD2	3:LL:301:ALA:HB2	1.93	0.49
3:MD:410:GLU:OE1	30:Q1:1419:ARG:NH1	2.45	0.49
3:MF:12:CYS:SG	3:MF:13:GLY:N	2.85	0.49
4:MG:52:PHE:HZ	4:MG:239:THR:HB	1.78	0.49
4:MG:433:GLU:OE1	28:O2:61:TRP:NE1	2.42	0.49
3:MH:132:GLY:HA3	3:MH:163:ILE:H	1.77	0.49
3:MH:199:THR:N	3:MH:264:HIS:O	2.46	0.49
4:MI:273:ALA:HB2	4:MI:295:CYS:HB3	1.95	0.49
3:MJ:268:PRO:HD2	3:MJ:301:ALA:HB2	1.94	0.49
4:MK:67:PHE:O	4:MK:93:ILE:N	2.45	0.49
4:MK:269:LEU:N	4:MK:379:SER:O	2.39	0.49
26:N2:76:ALA:HA	26:N2:96:GLN:HE22	1.78	0.49
3:ND:3:GLU:OE2	3:ND:127:CYS:HB2	2.12	0.49
4:NE:262:TYR:OH	3:NF:391:ARG:O	2.30	0.49
3:NF:309:ARG:N	3:NF:372:THR:OG1	2.38	0.49
4:NI:235:VAL:HA	4:NI:238:ILE:HG12	1.93	0.49
3:NJ:398:TYR:HB3	3:NJ:403:MET:HB2	1.94	0.49
4:NK:102:ASN:HB3	4:NK:105:ARG:HB2	1.93	0.49
3:NL:3:GLU:OE2	3:NL:127:CYS:HB2	2.12	0.49
3:NL:175:VAL:HG22	3:NL:177:ASP:H	1.78	0.49
28:O1:36:GLU:CD	30:Q1:1416:ARG:HH12	2.20	0.49
3:OD:234:SER:O	3:OD:238:THR:HG23	2.11	0.49
3:OF:176:SER:O	3:OF:178:THR:N	2.45	0.49
3:OL:176:SER:O	3:OL:178:THR:N	2.45	0.49
3:PB:262:ARG:NH2	3:PB:425:TYR:OH	2.45	0.49
3:PD:218:THR:OG1	3:PD:219:THR:N	2.44	0.49
3:PF:334:GLN:O	3:PF:338:SER:OG	2.20	0.49
4:PG:5:ILE:O	4:PG:136:LEU:N	2.43	0.49
4:PK:186:ASN:OD1	4:PK:187:SER:N	2.45	0.49
30:Q1:1494:LEU:O	30:Q1:1498:ASP:HB3	2.12	0.49
4:QC:187:SER:O	4:QC:191:THR:HG23	2.12	0.49
4:QC:205:ASP:OD2	4:QC:304:LYS:NZ	2.30	0.49
3:QD:406:MET:O	3:QD:409:THR:OG1	2.23	0.49
4:QG:329:ASN:HA	4:QG:332:ILE:HG12	1.95	0.49
3:QJ:81:PHE:O	3:QJ:84:ILE:HG22	2.13	0.49
27:R:197:GLU:HA	27:R:200:LYS:HE3	1.95	0.49
31:R1:117:THR:O	31:R1:148:ARG:HA	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:RC:28:HIS:HB2	4:RC:30:ILE:HG12	1.94	0.49
4:RC:236:SER:O	4:RC:243:ARG:NH2	2.36	0.49
4:RC:319:TYR:HE2	4:RC:328:VAL:HG13	1.78	0.49
4:RE:320:ARG:N	4:RE:374:ALA:O	2.36	0.49
3:RF:12:CYS:HA	39:RF:501:GTP:HN22	1.77	0.49
3:RH:255:VAL:HG12	4:RI:407:TRP:CE3	2.47	0.49
3:RH:271:ALA:HB1	3:RH:272:PRO:HD2	1.94	0.49
4:RI:172:TYR:HB2	4:RI:203:MET:HB3	1.94	0.49
4:SC:45:GLY:HA2	4:SC:49:PHE:HE1	1.76	0.49
3:SD:81:PHE:O	3:SD:84:ILE:HG22	2.12	0.49
3:SD:186:THR:HG21	3:SD:385:PHE:HD2	1.78	0.49
3:SD:302:ALA:HB1	3:SD:377:LEU:HD11	1.95	0.49
3:SD:378:PHE:CD1	3:SD:419:VAL:HG22	2.47	0.49
4:SG:9:VAL:HA	4:SG:68:VAL:HG23	1.93	0.49
4:SG:67:PHE:HB2	4:SG:92:LEU:HD13	1.94	0.49
3:SH:97:ALA:O	3:SH:103:LYS:HE2	2.12	0.49
4:SI:102:ASN:OD1	4:SI:103:TYR:N	2.46	0.49
4:SK:2:ARG:NH2	4:SK:250:VAL:O	2.45	0.49
4:SK:287:SER:OG	4:SK:290:GLU:OE1	2.22	0.49
3:SL:100:ASN:H	3:SL:103:LYS:HE3	1.77	0.49
3:TB:234:SER:O	3:TB:238:THR:HG23	2.12	0.49
3:TD:28:HIS:O	3:TD:43:GLN:NE2	2.45	0.49
3:TD:257:MET:HE1	3:TD:314:ALA:HB2	1.94	0.49
3:TD:324:LYS:HD3	4:TE:210:TYR:CE1	2.48	0.49
3:TD:385:PHE:HA	3:TD:388:MET:HE2	1.93	0.49
4:TE:51:THR:HG23	4:TE:52:PHE:CD2	2.47	0.49
4:TE:208:ALA:N	4:TE:304:LYS:HZ1	2.08	0.49
3:TF:286:VAL:HG21	3:TF:325:GLU:HG3	1.93	0.49
3:TH:337:ASN:HB2	3:TH:340:TYR:HD2	1.76	0.49
4:TI:220:GLU:O	4:TI:221:ARG:NE	2.44	0.49
3:TJ:317:PHE:HB3	3:TJ:321:MET:HE3	1.93	0.49
4:TK:169:PHE:CE2	4:TK:202:PHE:HD2	2.30	0.49
3:TL:132:GLY:HA3	3:TL:163:ILE:H	1.78	0.49
3:TL:163:ILE:HD11	3:TL:251:ARG:HG3	1.94	0.49
3:TL:326:VAL:HG22	3:TL:330:MET:HE2	1.93	0.49
4:TM:1:MET:SD	4:TM:2:ARG:N	2.85	0.49
3:TN:101:TRP:HB2	3:TN:184:ASN:HD22	1.76	0.49
3:TN:285:THR:O	3:TN:288:GLU:HG3	2.12	0.49
33:U:163:SER:HB3	33:U:166:GLU:HB3	1.93	0.49
3:UD:28:HIS:ND1	3:UD:43:GLN:HB2	2.27	0.49
3:UD:51:TYR:CD1	3:UD:61:PRO:HA	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UD:113:VAL:HB	3:UD:154:LYS:HE3	1.93	0.49
3:UD:214:THR:HG21	3:UD:273:LEU:HB3	1.94	0.49
4:UE:107:HIS:CD2	4:UE:152:LEU:HB2	2.47	0.49
4:UK:333:ALA:HA	4:UK:336:LYS:HD2	1.94	0.49
3:VB:175:VAL:HG22	3:VB:177:ASP:H	1.77	0.49
3:VB:183:TYR:CZ	3:VB:388:MET:HG3	2.47	0.49
3:VB:218:THR:OG1	3:VB:219:THR:N	2.45	0.49
3:VB:346:PRO:HG2	4:VC:394:LYS:HE2	1.93	0.49
4:VC:3:GLU:OE2	4:VC:130:THR:N	2.35	0.49
4:VC:329:ASN:OD1	4:VC:330:ALA:N	2.45	0.49
3:VD:28:HIS:O	3:VD:43:GLN:NE2	2.45	0.49
4:VG:293:ASN:HA	4:VG:296:PHE:CE1	2.47	0.49
4:VG:301:GLN:N	4:VG:301:GLN:OE1	2.45	0.49
3:VH:12:CYS:O	3:VH:15:GLN:N	2.45	0.49
4:VI:316:CYS:HB3	4:VI:378:LEU:HB3	1.94	0.49
4:VK:115:VAL:HA	4:VK:118:VAL:HG12	1.93	0.49
4:WA:256:GLN:O	4:WA:260:VAL:HG12	2.12	0.49
4:WC:166:LYS:N	4:WC:199:ASP:OD2	2.46	0.49
3:WD:173:PRO:O	3:WD:380:ARG:NH2	2.45	0.49
3:WJ:272:PRO:HA	3:WJ:292:GLN:OE1	2.11	0.49
4:WK:216:ASN:HD21	4:WK:275:VAL:HG23	1.78	0.49
4:WK:331:ALA:O	4:WK:334:THR:OG1	2.28	0.49
3:WL:114:ASP:N	3:WL:114:ASP:OD1	2.45	0.49
34:XA:11:LEU:HD13	34:XA:71:ILE:HD12	1.94	0.49
34:XE:81:LYS:HA	34:XE:129:TRP:HA	1.94	0.49
37:YK:125:LEU:HD13	37:YK:134:TYR:HB3	1.94	0.49
37:YN:4:VAL:HG21	37:YN:82:HIS:ND1	2.27	0.49
37:YN:114:ARG:NH2	37:YN:130:ALA:O	2.44	0.49
37:YN:141:ILE:HB	37:YN:142:PRO:HD3	1.93	0.49
37:YQ:41:ARG:NH1	37:YQ:44:SER:H	2.11	0.49
36:Z:235:GLU:HB3	36:Z:239:ARG:NH1	2.27	0.49
2:A1:172:GLU:HG2	7:C1:279:GLU:HG2	1.94	0.49
3:AB:262:ARG:NH2	35:XH:231:MET:SD	2.86	0.49
4:AC:9:VAL:HG11	4:AC:150:ALA:HB2	1.93	0.49
4:AC:75:VAL:HG23	4:AC:92:LEU:HD12	1.95	0.49
4:AE:122:ILE:O	4:AE:126:ALA:N	2.42	0.49
3:AF:139:LEU:N	3:AF:168:SER:OG	2.45	0.49
4:AG:47:ASP:HB3	4:AG:49:PHE:CE2	2.47	0.49
4:AG:105:ARG:O	4:AG:109:THR:OG1	2.22	0.49
3:AH:384:GLN:O	3:AH:388:MET:HG2	2.13	0.49
4:AI:329:ASN:OD1	4:AI:330:ALA:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AJ:209:ASP:O	3:AJ:213:ARG:HG2	2.13	0.49
3:AJ:247:ASN:HB3	3:AJ:252:LYS:HG2	1.95	0.49
3:AJ:295:ASP:HB2	3:AJ:298:ASN:HB2	1.93	0.49
4:AK:234:ILE:HD11	4:AK:272:TYR:HB2	1.95	0.49
4:AM:196:GLU:OE1	4:AM:196:GLU:N	2.41	0.49
5:B1:280:LYS:O	5:B1:283:GLU:HG3	2.13	0.49
5:B7:203:VAL:CG2	8:D8:118:GLN:HE22	2.26	0.49
5:B8:275:PHE:O	5:B8:279:LEU:HG	2.12	0.49
5:B8:321:ARG:NH1	5:B8:332:ASP:OD1	2.42	0.49
4:BC:415:GLU:OE1	4:BC:415:GLU:N	2.45	0.49
4:BE:264:ARG:HG2	4:BE:265:ILE:N	2.28	0.49
4:BE:420:GLU:HA	4:BE:423:GLU:OE2	2.12	0.49
4:BG:65:ALA:O	4:BG:91:GLN:NE2	2.45	0.49
4:BG:363:VAL:H	4:BG:368:LEU:HD21	1.77	0.49
4:BM:54:SER:N	4:BM:62:VAL:O	2.44	0.49
4:BM:224:TYR:CE2	39:BM:501:GTP:C6	3.01	0.49
6:C:126:GLY:H	6:C:281:ARG:NH1	2.10	0.49
6:C:316:ASP:HB3	6:C:370:GLN:HE22	1.77	0.49
7:C6:248:ARG:HA	7:C6:251:GLN:CD	2.38	0.49
7:C7:450:HIS:CE1	7:Cb:284:PHE:HB2	2.48	0.49
7:C8:418:LEU:O	7:C8:421:VAL:HG22	2.12	0.49
4:CC:89:PRO:HD2	4:DA:280:LYS:NZ	2.26	0.49
4:CC:301:GLN:OE1	4:CC:301:GLN:N	2.46	0.49
3:CD:36:TYR:CZ	3:CD:38:GLY:HA2	2.47	0.49
3:CD:285:THR:O	3:CD:288:GLU:HG3	2.13	0.49
4:CE:84:ARG:NE	15:H2:212:LEU:HD12	2.28	0.49
4:CE:287:SER:N	4:CE:290:GLU:OE2	2.45	0.49
3:CH:3:GLU:HG2	3:CH:130:LEU:HD13	1.95	0.49
3:CH:48:ASN:HA	3:CH:51:TYR:O	2.11	0.49
3:CH:285:THR:O	3:CH:288:GLU:HG3	2.13	0.49
4:CI:425:LEU:O	4:CI:428:LEU:HG	2.12	0.49
3:CJ:152:ILE:HA	3:CJ:155:ILE:HG12	1.94	0.49
3:CL:197:ASP:OD1	3:CL:198:GLU:N	2.46	0.49
4:CM:66:VAL:HG22	4:CM:91:GLN:HG2	1.94	0.49
8:D9:356:ARG:HH22	8:Da:100:THR:HG22	1.77	0.49
4:DA:230:LEU:O	4:DA:234:ILE:HG12	2.13	0.49
4:DC:50:ASN:OD1	4:DC:51:THR:N	2.45	0.49
3:DD:234:SER:O	3:DD:238:THR:HG23	2.12	0.49
4:DE:91:GLN:HG3	4:DE:121:ARG:HH21	1.77	0.49
4:DE:184:PRO:HB2	4:DE:395:PHE:HD2	1.77	0.49
3:DF:173:PRO:O	3:DF:380:ARG:NH2	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DF:375:GLN:HB3	3:DF:379:LYS:NZ	2.28	0.49
4:DG:11:GLN:HG3	39:DG:501:GTP:O1B	2.13	0.49
3:DH:25:SER:O	3:DH:29:GLY:N	2.42	0.49
4:DI:349:THR:HG23	3:DJ:179:VAL:HG12	1.95	0.49
4:DI:390:ARG:HA	4:DI:393:HIS:CD2	2.47	0.49
4:DK:317:MET:HE1	4:DK:351:PHE:HB2	1.93	0.49
8:Da:65:HIS:HB3	11:Fh:380:ARG:HH12	1.78	0.49
10:E1:126:GLN:HB2	10:E1:133:ARG:HE	1.77	0.49
4:EE:224:TYR:CE2	39:EE:501:GTP:C6	3.00	0.49
4:EG:268:PRO:HB2	4:EG:378:LEU:HD11	1.93	0.49
3:EJ:295:ASP:HB2	3:EJ:298:ASN:HB2	1.94	0.49
4:EK:298:PRO:O	4:EK:301:GLN:NE2	2.40	0.49
11:F4:158:TYR:O	11:F4:162:ARG:NE	2.34	0.49
11:F5:333:TRP:CD1	11:F9:352:ASP:HB3	2.47	0.49
11:F6:376:MET:O	11:F6:379:GLU:HG3	2.11	0.49
11:F6:402:ARG:HA	11:F6:402:ARG:NH1	2.28	0.49
11:F7:402:ARG:HH11	11:F7:408:CYS:H	1.59	0.49
4:FA:431:ASP:HA	4:FA:434:GLU:OE1	2.12	0.49
3:FB:46:ARG:HH12	4:FC:73:THR:HG23	1.77	0.49
4:FC:161:TYR:O	4:FC:166:LYS:NZ	2.34	0.49
3:FD:322:SER:N	3:FD:325:GLU:OE2	2.45	0.49
4:FE:116:ASP:N	4:FE:116:ASP:OD1	2.46	0.49
4:FE:301:GLN:N	4:FE:301:GLN:OE1	2.45	0.49
4:FG:220:GLU:O	4:FG:221:ARG:NE	2.45	0.49
4:FG:223:THR:O	4:FG:227:LEU:HG	2.13	0.49
4:FG:236:SER:O	4:FG:243:ARG:NH2	2.35	0.49
3:FH:194:GLU:OE1	3:FH:195:ASN:ND2	2.45	0.49
4:FK:362:VAL:HG11	4:FK:370:LYS:HD3	1.94	0.49
11:Fe:184:VAL:O	11:Fe:187:PRO:HD2	2.13	0.49
12:G:347:MET:SD	4:GE:282:TYR:OH	2.63	0.49
13:G2:223:TYR:O	13:G2:224:VAL:HB	2.11	0.49
13:G3:147:LYS:HG2	13:G3:150:LYS:HD3	1.93	0.49
13:G3:513:LEU:O	13:G3:516:MET:HG2	2.13	0.49
14:G5:211:ARG:O	14:G5:211:ARG:HD3	2.13	0.49
14:G5:622:ARG:HG3	14:G5:626:LYS:NZ	2.27	0.49
14:G6:418:PHE:O	14:G6:422:MET:HG2	2.13	0.49
4:GA:345:ASP:OD1	4:GA:345:ASP:N	2.45	0.49
3:GB:217:LEU:O	3:GB:219:THR:N	2.45	0.49
4:GE:22:GLU:HG2	4:GE:83:TYR:HE2	1.78	0.49
4:GE:226:ASN:ND2	4:GE:367:ASP:OD2	2.42	0.49
4:GG:12:ALA:HB1	39:GG:501:GTP:C2	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:GG:88:HIS:HE1	4:GG:90:GLU:CD	2.20	0.49
3:GJ:8:GLN:OE1	3:GJ:65:LEU:HD13	2.11	0.49
3:GJ:262:ARG:HH21	3:GJ:418:LEU:HA	1.77	0.49
4:GK:88:HIS:HD2	4:HK:284:GLU:OE2	1.95	0.49
15:H3:251:GLN:HA	15:H3:254:PHE:CE2	2.47	0.49
15:H5:311:GLU:HG2	15:H5:315:ARG:NE	2.27	0.49
4:HA:311:LYS:NZ	4:HA:343:PHE:O	2.45	0.49
4:HC:113:GLU:N	4:HC:113:GLU:OE1	2.44	0.49
4:HE:32:PRO:HA	4:HE:83:TYR:CE1	2.48	0.49
3:HF:174:LYS:HG3	3:HF:175:VAL:HG12	1.94	0.49
3:HJ:133:PHE:N	3:HJ:163:ILE:O	2.38	0.49
16:I:99:VAL:O	16:I:103:LYS:N	2.39	0.49
4:IC:21:TRP:HD1	4:IC:53:PHE:CE1	2.31	0.49
4:IC:244:PHE:CE1	4:IC:358:GLN:HG2	2.48	0.49
4:IC:331:ALA:O	4:IC:334:THR:OG1	2.30	0.49
4:IC:421:ALA:HA	4:IC:424:ASP:HB2	1.94	0.49
4:IE:271:THR:HA	4:IE:302:MET:HE1	1.95	0.49
3:IH:176:SER:O	3:IH:178:THR:N	2.46	0.49
3:IJ:257:MET:O	3:IJ:259:PRO:HD3	2.11	0.49
4:IK:6:SER:HB3	4:IK:65:ALA:HB2	1.94	0.49
3:IL:305:PRO:HA	3:IL:373:ALA:HB2	1.94	0.49
4:IM:154:MET:HE3	4:IM:194:THR:HG22	1.95	0.49
19:J2:86:PRO:O	19:J2:90:HIS:ND1	2.44	0.49
4:JA:49:PHE:CE1	4:JA:55:GLU:HB3	2.47	0.49
3:JB:323:MET:SD	3:JB:323:MET:N	2.81	0.49
4:JC:54:SER:N	4:JC:62:VAL:O	2.46	0.49
4:JC:392:ASP:OD1	4:JC:393:HIS:N	2.45	0.49
3:JD:70:PRO:HA	3:JD:73:MET:HE3	1.93	0.49
3:JF:295:ASP:HB2	3:JF:298:ASN:HB2	1.94	0.49
3:JF:350:LYS:HE3	4:JG:181:VAL:H	1.76	0.49
4:JG:187:SER:O	4:JG:190:THR:OG1	2.29	0.49
4:JG:269:LEU:HD11	4:JG:384:ILE:HG21	1.93	0.49
4:JI:139:HIS:CD2	4:JI:170:ALA:HB2	2.47	0.49
4:JI:324:VAL:HG21	3:JJ:219:THR:HG22	1.94	0.49
3:JJ:12:CYS:SG	3:JJ:13:GLY:N	2.85	0.49
4:JK:80:THR:O	32:T:317:ARG:NH1	2.44	0.49
21:K2:154:LEU:HD11	21:K2:224:LEU:HD21	1.94	0.49
21:K2:169:ARG:HA	21:K2:172:LEU:HD12	1.93	0.49
21:K2:387:LEU:HD22	21:K2:392:LYS:HA	1.94	0.49
21:K2:418:GLY:HA2	21:K2:421:LEU:HD12	1.95	0.49
3:KB:295:ASP:HB2	3:KB:298:ASN:HB2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:KC:243:ARG:HH12	20:L:257:SER:CB	2.25	0.49
3:KD:51:TYR:CD1	3:KD:61:PRO:HA	2.47	0.49
3:KD:392:LYS:HB2	3:KD:395:LEU:HD13	1.94	0.49
4:KE:229:ARG:NH1	4:KE:366:GLY:HA2	2.28	0.49
4:KE:337:THR:O	4:KE:339:ARG:NH1	2.45	0.49
3:KH:390:ARG:O	3:KH:392:LYS:NZ	2.43	0.49
4:KI:16:ILE:HG13	4:KI:17:GLY:N	2.27	0.49
4:KI:125:LEU:HD13	4:KI:128:LEU:HD21	1.94	0.49
3:KL:250:LEU:O	3:KL:254:ALA:N	2.32	0.49
22:L1:142:PHE:N	22:L1:143:PRO:HD3	2.27	0.49
22:L3:89:PRO:HD2	22:L3:91:ARG:NH1	2.26	0.49
22:L3:132:ASP:CG	22:L3:133:LYS:H	2.21	0.49
4:LA:425:LEU:O	4:LA:428:LEU:N	2.46	0.49
3:LB:143:THR:HB	3:LB:147:MET:HE3	1.94	0.49
3:LD:68:LEU:HD12	3:LD:97:ALA:HB2	1.95	0.49
3:LD:295:ASP:HB2	3:LD:298:ASN:HB2	1.95	0.49
4:LE:287:SER:N	4:LE:290:GLU:OE2	2.44	0.49
3:LJ:384:GLN:HG2	24:M3:90:TRP:HH2	1.78	0.49
3:LL:11:GLN:HG3	39:LL:501:GTP:PA	2.52	0.49
3:LL:12:CYS:SG	39:LL:501:GTP:H5'	2.53	0.49
4:MC:196:GLU:HG2	4:MC:197:HIS:ND1	2.27	0.49
4:MG:98:ASP:O	4:MG:105:ARG:NH2	2.28	0.49
4:MG:196:GLU:HG2	4:MG:197:HIS:ND1	2.27	0.49
4:MG:207:GLU:HB2	4:MG:304:LYS:NZ	2.28	0.49
4:MG:405:VAL:O	4:MG:409:VAL:HG22	2.13	0.49
3:MH:324:LYS:HE2	4:MI:222:PRO:HG2	1.94	0.49
3:MJ:84:ILE:O	3:MJ:86:ARG:NH1	2.46	0.49
4:MK:172:TYR:HB2	4:MK:203:MET:HB2	1.94	0.49
4:MM:165:SER:C	4:MM:166:LYS:HD2	2.37	0.49
4:MM:182:VAL:HA	4:MM:185:TYR:HD2	1.77	0.49
4:MM:287:SER:N	4:MM:290:GLU:OE2	2.45	0.49
3:NB:218:THR:OG1	3:NB:219:THR:N	2.46	0.49
3:ND:175:VAL:HG22	3:ND:177:ASP:H	1.78	0.49
3:ND:234:SER:O	3:ND:238:THR:HG23	2.13	0.49
3:NF:305:PRO:HB2	3:NF:310:TYR:HE1	1.77	0.49
3:NJ:3:GLU:OE2	3:NJ:128:ASP:N	2.46	0.49
3:NJ:47:ILE:HG13	3:NJ:51:TYR:HB2	1.94	0.49
3:NJ:176:SER:O	3:NJ:178:THR:N	2.45	0.49
3:OB:145:SER:HB2	3:OB:188:SER:HB3	1.93	0.49
3:OB:217:LEU:HD11	3:OB:220:PRO:HB3	1.93	0.49
3:OD:259:PRO:HD2	3:OD:263:LEU:HG	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:OH:174:LYS:HG3	3:OH:175:VAL:HG12	1.94	0.49
4:OI:319:TYR:N	4:OI:354:GLY:O	2.46	0.49
4:OK:182:VAL:HA	4:OK:185:TYR:CD2	2.48	0.49
4:OK:239:THR:OG1	4:OK:243:ARG:NH1	2.46	0.49
29:P1:378:HIS:NE2	29:P1:394:ASP:HB3	2.27	0.49
4:PA:10:GLY:HA2	4:PA:145:THR:OG1	2.12	0.49
3:PB:317:PHE:HB3	3:PB:321:MET:HE3	1.95	0.49
3:PD:114:ASP:OD1	3:PD:115:SER:N	2.45	0.49
4:PG:405:VAL:O	4:PG:409:VAL:HG22	2.12	0.49
3:PJ:372:THR:HG21	3:PJ:426:GLN:HG3	1.94	0.49
3:PL:12:CYS:SG	3:PL:13:GLY:N	2.86	0.49
3:PL:52:ASN:OD1	3:PL:62:ARG:NH1	2.46	0.49
30:Q1:1398:ASP:HA	30:Q1:1401:GLN:HE21	1.77	0.49
30:Q3:1344:LEU:HD22	30:Q3:1444:GLN:HE21	1.77	0.49
4:QC:175:PRO:HA	4:QC:390:ARG:CZ	2.42	0.49
4:QC:213:CYS:O	4:QC:218:ASP:N	2.45	0.49
3:QD:347:ASN:HB3	4:QE:178:SER:HB3	1.94	0.49
4:QG:224:TYR:CE1	39:QG:501:GTP:C5	2.98	0.49
3:QJ:183:TYR:CG	3:QJ:388:MET:HE3	2.47	0.49
3:QL:158:GLU:HG2	3:QL:159:TYR:CD2	2.47	0.49
27:R:346:ALA:HA	27:R:349:GLN:HE22	1.77	0.49
31:R1:116:LEU:HB2	31:R1:148:ARG:HB3	1.94	0.49
3:RB:258:VAL:HB	4:RC:407:TRP:HZ2	1.78	0.49
3:RB:282:ARG:HE	3:RB:288:GLU:CD	2.19	0.49
3:RD:28:HIS:O	3:RD:43:GLN:NE2	2.45	0.49
3:RD:324:LYS:HE2	4:RE:222:PRO:HD2	1.94	0.49
4:RE:260:VAL:O	3:RF:397:TRP:HH2	1.95	0.49
3:RF:261:PRO:O	3:RF:264:HIS:NE2	2.46	0.49
3:RH:4:ILE:HD11	3:RH:131:GLN:HB2	1.95	0.49
4:RI:203:MET:SD	4:RI:203:MET:N	2.86	0.49
4:RK:52:PHE:HZ	4:RK:239:THR:HB	1.77	0.49
4:RK:345:ASP:N	4:RK:345:ASP:OD1	2.46	0.49
4:RM:103:TYR:HB2	4:RM:186:ASN:HB2	1.94	0.49
32:S:427:PRO:HD2	32:S:430:LEU:HB3	1.93	0.49
3:SB:235:GLY:O	3:SB:238:THR:OG1	2.28	0.49
4:SG:172:TYR:N	4:SG:204:VAL:O	2.27	0.49
3:SJ:282:ARG:HE	3:SJ:288:GLU:CD	2.20	0.49
4:SK:319:TYR:HD2	4:SK:323:VAL:HG11	1.77	0.49
4:SM:10:GLY:O	4:SM:14:VAL:HG13	2.12	0.49
3:TB:175:VAL:HG22	3:TB:177:ASP:H	1.77	0.49
4:TC:427:ALA:HA	4:TC:430:LYS:HE3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TD:309:ARG:HH22	3:TD:344:TRP:HZ3	1.60	0.49
4:TE:6:SER:HA	4:TE:136:LEU:HB2	1.94	0.49
3:TF:345:ILE:HD12	4:TG:398:MET:HE3	1.94	0.49
3:TH:114:ASP:OD1	3:TH:115:SER:N	2.45	0.49
4:TI:325:PRO:HB2	3:TJ:208:TYR:OH	2.12	0.49
3:TJ:347:ASN:HB3	4:TK:178:SER:HB3	1.94	0.49
33:U:478:LEU:O	33:U:482:VAL:HG23	2.13	0.49
4:UA:35:GLN:HG2	4:UA:59:GLY:O	2.12	0.49
4:UA:176:GLN:NE2	4:UA:207:GLU:OE2	2.45	0.49
4:UA:214:ARG:NH1	4:UA:215:ARG:HG3	2.26	0.49
4:UC:67:PHE:O	4:UC:93:ILE:N	2.46	0.49
4:UC:254:GLU:OE1	4:UC:254:GLU:N	2.44	0.49
4:UC:272:TYR:CZ	4:UC:274:PRO:HG2	2.47	0.49
4:UE:201:ALA:HB3	4:UE:267:PHE:HD1	1.78	0.49
4:UE:223:THR:OG1	4:UE:225:THR:OG1	2.23	0.49
3:UF:375:GLN:HA	3:UF:378:PHE:CZ	2.47	0.49
4:UG:235:VAL:HA	4:UG:238:ILE:HG12	1.94	0.49
3:UJ:266:PHE:HD1	3:UJ:370:ASN:HB2	1.77	0.49
4:UK:229:ARG:HE	4:UK:368:LEU:HD22	1.77	0.49
4:UK:408:TYR:CD2	4:UK:418:PHE:HZ	2.31	0.49
3:UL:2:ARG:HB3	3:UL:131:GLN:NE2	2.28	0.49
3:UL:114:ASP:OD1	3:UL:115:SER:N	2.45	0.49
3:UL:190:HIS:NE2	3:UL:410:GLU:OE1	2.46	0.49
4:VA:319:TYR:HD2	4:VA:323:VAL:HG11	1.77	0.49
4:VC:52:PHE:HE2	4:VC:243:ARG:HH11	1.60	0.49
3:VD:257:MET:HE1	3:VD:314:ALA:HB2	1.94	0.49
3:VD:350:LYS:HE3	4:VE:180:ALA:HA	1.95	0.49
4:VE:260:VAL:O	3:VF:397:TRP:HH2	1.96	0.49
4:VG:265:ILE:HD12	4:VG:432:TYR:CE1	2.47	0.49
3:VH:176:SER:O	3:VH:178:THR:N	2.45	0.49
3:VL:156:ARG:CZ	3:VL:164:MET:HE3	2.43	0.49
3:WB:8:GLN:HE21	3:WB:14:ASN:HA	1.76	0.49
3:WB:101:TRP:HB2	3:WB:184:ASN:HD22	1.76	0.49
3:WB:170:VAL:N	3:WB:202:ILE:O	2.33	0.49
3:WD:357:PRO:HB3	3:WD:362:LYS:HA	1.93	0.49
3:WF:170:VAL:N	3:WF:202:ILE:O	2.39	0.49
3:WH:170:VAL:N	3:WH:202:ILE:O	2.36	0.49
3:WH:324:LYS:HE2	4:WI:222:PRO:CD	2.42	0.49
4:WI:319:TYR:HB2	4:WI:355:ILE:HD13	1.94	0.49
3:WJ:285:THR:O	3:WJ:288:GLU:HG3	2.12	0.49
4:WK:205:ASP:OD2	4:WK:304:LYS:NZ	2.37	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:WL:11:GLN:HG3	39:WL:501:GTP:PA	2.52	0.49
34:XA:78:MET:H	34:XA:132:ILE:HB	1.78	0.49
34:XD:11:LEU:HD13	34:XD:71:ILE:HD12	1.95	0.49
34:XE:84:LYS:HZ1	35:XK:241:ASN:H	1.56	0.49
34:XE:113:ARG:HE	34:XE:114:VAL:H	1.61	0.49
34:XG:174:GLU:O	34:XG:182:LYS:NZ	2.30	0.49
35:XH:203:GLU:OE1	35:XH:203:GLU:N	2.42	0.49
37:YA:125:LEU:HD13	37:YA:134:TYR:HB3	1.94	0.49
37:YE:69:PHE:HA	37:YE:72:ILE:HB	1.94	0.49
37:YF:120:GLU:O	37:YF:124:HIS:N	2.44	0.49
37:YF:136:GLY:O	37:YF:139:SER:N	2.37	0.49
37:YI:113:LEU:HD22	37:YI:140:LEU:HA	1.93	0.49
37:YJ:64:ARG:O	37:YJ:67:ILE:HG12	2.13	0.49
37:YP:13:GLN:HE21	37:YP:17:LEU:HG	1.77	0.49
37:YW:63:ARG:O	37:YW:67:ILE:HG23	2.12	0.49
1:A:56:PHE:HA	18:J:70:TRP:HZ3	1.78	0.49
1:A:58:ARG:HB3	1:A:62:ASN:ND2	2.27	0.49
1:A:166:HIS:O	1:A:170:LEU:HG	2.13	0.49
2:A1:372:LEU:HA	2:A1:375:GLU:CD	2.37	0.49
4:AE:196:GLU:HG2	4:AE:197:HIS:ND1	2.27	0.49
3:AH:12:CYS:SG	3:AH:13:GLY:N	2.85	0.49
4:AI:122:ILE:O	4:AI:126:ALA:N	2.45	0.49
4:AI:288:VAL:HG21	4:AI:328:VAL:HG22	1.95	0.49
4:AK:109:THR:O	4:AK:112:LYS:NZ	2.44	0.49
4:AK:146:GLY:N	39:AK:501:GTP:O2B	2.45	0.49
4:AK:224:TYR:HE2	39:AK:501:GTP:C6	2.30	0.49
4:AK:423:GLU:O	4:AK:427:ALA:N	2.36	0.49
4:AM:139:HIS:CD2	4:AM:170:ALA:HB2	2.48	0.49
4:AM:311:LYS:NZ	4:AM:343:PHE:O	2.43	0.49
4:AM:316:CYS:HB3	4:AM:378:LEU:HB3	1.93	0.49
5:B3:129:VAL:HG22	5:B4:12:TYR:HB2	1.93	0.49
5:B4:239:LEU:O	5:B4:243:ILE:HG12	2.13	0.49
5:B4:408:VAL:HG23	5:B4:409:ASP:H	1.78	0.49
5:B6:119:LEU:HD13	5:B6:389:LYS:HE3	1.95	0.49
3:BB:183:TYR:CD1	3:BB:388:MET:HE3	2.48	0.49
3:BD:54:ALA:HB3	3:BD:58:LYS:HB3	1.95	0.49
3:BD:324:LYS:HE2	4:BE:222:PRO:HD2	1.94	0.49
4:BE:89:PRO:HD2	4:CE:280:LYS:NZ	2.27	0.49
3:BJ:14:ASN:HD21	3:BJ:67:ASP:CG	2.21	0.49
4:BK:213:CYS:O	4:BK:218:ASP:N	2.46	0.49
3:BL:176:SER:O	3:BL:178:THR:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BM:386:GLU:HA	4:BM:389:ALA:HB3	1.93	0.49
6:C:127:GLU:OE1	6:C:127:GLU:N	2.33	0.49
7:C2:281:VAL:HB	7:C3:394:LYS:HE2	1.93	0.49
7:C4:127:LEU:HA	7:C4:130:ASP:OD2	2.11	0.49
7:C4:199:LEU:O	7:C4:202:ARG:HD3	2.13	0.49
4:CC:84:ARG:HH21	15:H1:213:ILE:HG23	1.77	0.49
4:CC:263:PRO:HB2	4:CC:264:ARG:NH1	2.27	0.49
3:CH:269:GLY:HA3	3:CH:367:PHE:HB3	1.94	0.49
3:CJ:19:LYS:NZ	3:CJ:223:GLY:O	2.46	0.49
3:CJ:81:PHE:O	3:CJ:84:ILE:HG22	2.12	0.49
4:CK:165:SER:C	4:CK:166:LYS:HD2	2.37	0.49
4:CM:84:ARG:NE	15:H6:215:ARG:HE	2.10	0.49
4:CM:118:VAL:HA	4:CM:121:ARG:HG2	1.94	0.49
7:Cd:220:LEU:HB2	8:D4:25:LYS:NZ	2.27	0.49
7:Cd:262:GLN:O	7:Cd:266:ARG:HD3	2.13	0.49
8:D2:78:ARG:NH2	8:D3:328:GLU:OE2	2.46	0.49
8:D3:412:LEU:O	8:D3:416:ILE:HG12	2.12	0.49
8:D5:302:SER:O	8:D5:305:SER:OG	2.24	0.49
8:D9:188:GLU:HA	8:D9:191:LYS:HD2	1.94	0.49
3:DB:324:LYS:HE2	4:DC:222:PRO:CD	2.43	0.49
4:DE:16:ILE:HG22	4:DE:228:ASN:OD1	2.11	0.49
3:DF:104:GLY:HA2	3:DF:108:GLU:HB2	1.94	0.49
4:DG:419:SER:O	4:DG:422:ARG:HG2	2.12	0.49
3:DJ:269:GLY:N	3:DJ:367:PHE:O	2.46	0.49
3:DJ:415:MET:SD	3:DJ:418:LEU:HD12	2.52	0.49
3:EB:11:GLN:O	3:EB:15:GLN:NE2	2.46	0.49
3:EB:32:PRO:O	3:EB:83:GLN:NE2	2.32	0.49
3:EB:247:ASN:HB3	3:EB:252:LYS:HD2	1.94	0.49
4:EC:186:ASN:OD1	4:EC:187:SER:N	2.45	0.49
4:EC:326:LYS:HD2	3:ED:208:TYR:CE2	2.47	0.49
4:EE:52:PHE:HZ	4:EE:239:THR:HB	1.77	0.49
4:EE:301:GLN:OE1	4:EE:301:GLN:N	2.45	0.49
4:EE:324:VAL:HG21	3:EF:219:THR:HG22	1.94	0.49
3:EF:72:THR:O	3:EF:75:SER:OG	2.22	0.49
3:EH:12:CYS:HB3	39:EH:501:GTP:H5'	1.94	0.49
3:EJ:318:ARG:HA	3:EJ:354:CYS:HB3	1.95	0.49
3:EL:77:ARG:HG3	13:G3:465:LYS:HZ1	1.77	0.49
11:F3:94:ASP:O	11:F3:97:ARG:HD3	2.12	0.49
11:F3:215:LEU:HA	11:F3:218:GLU:OE1	2.12	0.49
11:F6:227:ASP:OD1	11:F6:230:ARG:NH2	2.41	0.49
11:F6:387:TYR:CZ	11:F6:391:MET:HE3	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:F7:263:ILE:HA	11:F7:266:ASN:HD21	1.75	0.49
11:F7:390:LYS:HA	11:F7:393:GLN:HE21	1.77	0.49
4:FA:46:ASP:OD1	4:FA:50:ASN:ND2	2.45	0.49
3:FB:188:SER:O	3:FB:192:LEU:HG	2.12	0.49
3:FD:81:PHE:O	3:FD:84:ILE:HG22	2.12	0.49
4:FE:69:ASP:OD1	4:FE:70:LEU:N	2.45	0.49
4:FE:405:VAL:O	4:FE:409:VAL:HG22	2.11	0.49
4:FG:47:ASP:HB3	4:FG:49:PHE:CE2	2.48	0.49
4:FI:104:ALA:HA	4:FI:107:HIS:HB3	1.94	0.49
4:FI:336:LYS:HE2	3:FJ:175:VAL:HB	1.95	0.49
4:FK:265:ILE:HD13	4:FK:432:TYR:CE1	2.48	0.49
3:FL:91:VAL:HG11	3:FL:116:VAL:HG12	1.94	0.49
11:Fc:171:ASP:O	11:Fc:175:ARG:HG2	2.12	0.49
11:Ff:102:GLN:OE1	11:Fg:450:ARG:NH2	2.46	0.49
11:Fj:437:THR:O	11:Fj:441:LEU:HD23	2.11	0.49
13:G2:93:ASP:N	13:G2:93:ASP:OD1	2.46	0.49
14:G5:6:LEU:HD11	3:MH:360:GLY:HA3	1.94	0.49
14:G5:267:PRO:HD2	14:G5:270:SER:HB3	1.93	0.49
14:G5:562:ILE:O	14:G5:566:PHE:HD2	1.95	0.49
14:G5:694:PHE:HA	14:G5:697:LEU:HG	1.93	0.49
3:GD:114:ASP:N	3:GD:114:ASP:OD1	2.46	0.49
4:GE:68:VAL:HG12	4:GE:93:ILE:HB	1.93	0.49
4:GE:172:TYR:N	4:GE:204:VAL:O	2.40	0.49
3:GH:60:VAL:HG23	3:GH:86:ARG:HH11	1.78	0.49
4:GI:2:ARG:HG2	4:GI:242:LEU:HD23	1.94	0.49
4:GI:324:VAL:HG11	3:GJ:219:THR:HB	1.95	0.49
4:GK:188:ILE:HG12	4:GK:421:ALA:HB1	1.94	0.49
3:GL:183:TYR:CD1	3:GL:388:MET:HE3	2.48	0.49
4:HA:74:VAL:O	4:HA:77:GLU:HG2	2.13	0.49
4:HA:363:VAL:HG13	4:HA:366:GLY:HA3	1.94	0.49
3:HB:246:LEU:HB3	3:HB:353:VAL:O	2.12	0.49
3:HB:272:PRO:HA	3:HB:292:GLN:OE1	2.13	0.49
3:HD:51:TYR:CD1	3:HD:61:PRO:HA	2.47	0.49
3:HD:211:CYS:HA	3:HD:215:LEU:HB2	1.94	0.49
4:HI:54:SER:N	4:HI:62:VAL:O	2.46	0.49
4:HI:216:ASN:ND2	4:HI:275:VAL:O	2.45	0.49
3:HJ:20:PHE:O	3:HJ:24:ILE:HG12	2.12	0.49
3:HJ:309:ARG:HE	3:HJ:426:GLN:HE21	1.60	0.49
3:HJ:385:PHE:HZ	3:HJ:408:PHE:HB3	1.77	0.49
3:HL:234:SER:O	3:HL:238:THR:HG23	2.12	0.49
17:I3:48:TYR:CE1	17:I3:51:ASP:HB2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IB:293:MET:HA	3:IB:298:ASN:ND2	2.28	0.49
4:IC:203:MET:SD	4:IC:203:MET:N	2.85	0.49
4:IC:262:TYR:HE1	3:ID:393:ALA:HA	1.77	0.49
4:IE:301:GLN:N	4:IE:301:GLN:OE1	2.46	0.49
3:IF:103:LYS:O	3:IF:108:GLU:N	2.26	0.49
3:IH:378:PHE:CD1	3:IH:419:VAL:HG22	2.47	0.49
4:II:102:ASN:HB3	4:II:105:ARG:HB2	1.95	0.49
3:IJ:176:SER:O	3:IJ:178:THR:N	2.45	0.49
4:IK:260:VAL:HG23	4:IK:265:ILE:O	2.13	0.49
4:IM:265:ILE:HD12	4:IM:265:ILE:H	1.77	0.49
4:JA:70:LEU:HB2	4:JA:145:THR:HG21	1.95	0.49
4:JA:311:LYS:HE3	4:JA:344:VAL:HA	1.94	0.49
4:JC:123:ARG:HA	4:JC:126:ALA:HB3	1.94	0.49
4:JC:362:VAL:HA	4:JC:368:LEU:HD11	1.95	0.49
4:JE:116:ASP:N	4:JE:116:ASP:OD1	2.43	0.49
4:JE:154:MET:HE3	4:JE:194:THR:HG22	1.93	0.49
3:JF:21:TRP:CZ2	3:JF:63:ALA:HB2	2.48	0.49
3:JF:47:ILE:HG12	3:JF:59:TYR:CD2	2.47	0.49
3:JF:77:ARG:HD3	3:JF:90:PHE:HE2	1.76	0.49
3:JF:410:GLU:HA	3:JF:413:SER:HB3	1.94	0.49
4:JG:88:HIS:CE1	4:KG:280:LYS:HZ1	2.31	0.49
3:JH:101:TRP:HB2	3:JH:184:ASN:HD22	1.77	0.49
3:JH:103:LYS:O	3:JH:108:GLU:N	2.32	0.49
3:JL:380:ARG:O	3:JL:384:GLN:HG2	2.12	0.49
21:K1:426:ASN:O	21:K1:429:MET:HG2	2.12	0.49
21:K3:235:ASP:O	21:K3:238:CYS:HB3	2.13	0.49
4:KA:245:ASP:O	4:KA:356:ASN:ND2	2.45	0.49
4:KA:254:GLU:OE1	4:KA:254:GLU:N	2.43	0.49
3:KB:412:GLU:HA	3:KB:415:MET:HE2	1.95	0.49
4:KC:143:GLY:HA3	4:KC:147:SER:H	1.77	0.49
3:KD:12:CYS:HA	39:KD:501:GTP:N2	2.28	0.49
3:KD:175:VAL:HG22	3:KD:177:ASP:H	1.78	0.49
3:KF:418:LEU:HA	3:KF:421:GLU:HB3	1.94	0.49
3:KL:372:THR:HB	3:KL:375:GLN:HE22	1.77	0.49
22:L1:158:ILE:HD12	22:L1:161:ARG:HB3	1.93	0.49
22:L3:141:LEU:C	22:L3:143:PRO:HD3	2.38	0.49
22:L3:162:ASN:O	22:L3:166:LYS:HG2	2.12	0.49
4:LA:271:THR:HB	4:LA:377:MET:HE2	1.94	0.49
3:LB:305:PRO:HB2	3:LB:310:TYR:HE1	1.78	0.49
4:LC:139:HIS:CD2	4:LC:170:ALA:HB2	2.47	0.49
4:LC:207:GLU:HB2	4:LC:304:LYS:NZ	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:LC:261:PRO:HA	3:LD:394:PHE:CE1	2.47	0.49
3:LD:240:LEU:HD22	3:LD:248:ALA:HB1	1.93	0.49
4:LE:185:TYR:CE2	4:LE:398:MET:HE1	2.48	0.49
4:LE:301:GLN:OE1	4:LE:301:GLN:N	2.46	0.49
3:LF:324:LYS:HE2	4:LG:222:PRO:HG2	1.93	0.49
3:LH:3:GLU:HG2	3:LH:130:LEU:HD23	1.93	0.49
3:LJ:385:PHE:HA	3:LJ:388:MET:HE2	1.95	0.49
3:LJ:406:MET:O	3:LJ:409:THR:OG1	2.24	0.49
3:MF:304:ASP:O	3:MF:307:HIS:ND1	2.43	0.49
4:MG:330:ALA:O	4:MG:334:THR:HG23	2.13	0.49
3:MH:21:TRP:CZ2	3:MH:63:ALA:HB2	2.48	0.49
3:MH:324:LYS:HD3	4:MI:210:TYR:CE1	2.48	0.49
4:MK:115:VAL:HG21	4:MK:156:ARG:HD3	1.95	0.49
4:NE:220:GLU:O	4:NE:221:ARG:NE	2.40	0.49
3:NF:214:THR:HG21	3:NF:273:LEU:HB3	1.95	0.49
4:NG:160:ASP:OD1	4:NG:161:TYR:N	2.46	0.49
4:NG:254:GLU:OE1	4:NG:254:GLU:N	2.42	0.49
4:NG:371:VAL:HG11	4:NG:374:ALA:HB2	1.94	0.49
3:NJ:166:THR:OG1	3:NJ:198:GLU:O	2.23	0.49
3:OB:175:VAL:HG22	3:OB:177:ASP:H	1.76	0.49
4:OC:79:ARG:O	4:OC:84:ARG:HG3	2.12	0.49
3:OD:144:GLY:HA2	3:OD:147:MET:HG2	1.95	0.49
3:OD:257:MET:O	3:OD:259:PRO:HD3	2.12	0.49
3:OD:375:GLN:HE21	3:OD:422:TYR:HB3	1.76	0.49
4:OE:14:VAL:HG12	4:OE:67:PHE:HB3	1.94	0.49
4:OE:113:GLU:OE1	4:OE:113:GLU:N	2.46	0.49
4:OE:118:VAL:HA	4:OE:121:ARG:HG2	1.94	0.49
4:OG:362:VAL:HA	4:OG:368:LEU:HD21	1.94	0.49
3:OH:268:PRO:HD2	3:OH:301:ALA:HB2	1.93	0.49
3:OH:290:THR:HG21	3:OH:329:GLN:HB3	1.94	0.49
3:OJ:3:GLU:HG2	3:OJ:130:LEU:HD23	1.94	0.49
3:OJ:32:PRO:O	3:OJ:83:GLN:NE2	2.43	0.49
4:OK:1:MET:N	4:OK:130:THR:OG1	2.45	0.49
3:OL:250:LEU:HD13	3:OL:253:LEU:HD12	1.95	0.49
3:OL:322:SER:OG	3:OL:323:MET:SD	2.70	0.49
4:PA:392:ASP:OD1	4:PA:393:HIS:N	2.46	0.49
3:PD:12:CYS:CA	3:PD:15:GLN:HE22	2.24	0.49
4:PE:116:ASP:OD1	4:PE:117:LEU:N	2.45	0.49
3:PF:12:CYS:HA	3:PF:15:GLN:NE2	2.19	0.49
3:PF:199:THR:N	3:PF:264:HIS:O	2.46	0.49
4:PG:287:SER:N	4:PG:290:GLU:OE2	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:PI:42:ILE:HG21	4:PI:59:GLY:HA2	1.94	0.49
4:PI:204:VAL:HG23	4:PI:302:MET:HG3	1.95	0.49
4:PM:329:ASN:OD1	4:PM:330:ALA:N	2.45	0.49
3:QB:28:HIS:CD2	3:QB:43:GLN:HB2	2.45	0.49
4:QC:79:ARG:O	4:QC:84:ARG:HD2	2.12	0.49
4:QC:83:TYR:HB3	4:QC:86:LEU:HD12	1.95	0.49
3:QF:12:CYS:HA	39:QF:501:GTP:N2	2.27	0.49
3:QJ:268:PRO:HD2	3:QJ:301:ALA:HB2	1.94	0.49
3:QL:11:GLN:HG3	39:QL:501:GTP:PA	2.53	0.49
4:RC:207:GLU:HB2	4:RC:304:LYS:NZ	2.28	0.49
4:RE:2:ARG:HA	4:RE:133:GLN:NE2	2.27	0.49
4:RE:68:VAL:HG12	4:RE:93:ILE:HB	1.95	0.49
4:RE:116:ASP:N	4:RE:116:ASP:OD1	2.44	0.49
4:RE:154:MET:HA	4:RE:157:LEU:HG	1.94	0.49
3:RH:3:GLU:OE2	3:RH:127:CYS:HB2	2.13	0.49
3:RH:381:ILE:HA	3:RH:384:GLN:HB2	1.95	0.49
4:RK:10:GLY:HA2	4:RK:145:THR:OG1	2.13	0.49
4:RK:70:LEU:HB3	4:RK:97:GLU:O	2.12	0.49
3:RL:12:CYS:SG	39:RL:501:GTP:H5'	2.53	0.49
4:SI:333:ALA:HA	4:SI:336:LYS:HD2	1.95	0.49
3:SJ:378:PHE:HA	3:SJ:381:ILE:HG22	1.95	0.49
4:SK:11:GLN:HG3	39:SK:501:GTP:O1B	2.13	0.49
3:SL:4:ILE:HD11	3:SL:131:GLN:HB2	1.94	0.49
3:SL:285:THR:O	3:SL:288:GLU:HG3	2.12	0.49
4:SM:308:ARG:HA	4:SM:342:GLN:HE22	1.76	0.49
3:TF:258:VAL:O	4:TG:407:TRP:NE1	2.41	0.49
4:TG:32:PRO:O	4:TG:85:GLN:NE2	2.45	0.49
3:TH:6:HIS:HD1	3:TH:63:ALA:HB1	1.76	0.49
3:TH:51:TYR:CD1	3:TH:61:PRO:HA	2.48	0.49
3:TJ:380:ARG:O	3:TJ:384:GLN:HG2	2.13	0.49
3:TL:392:LYS:HB2	3:TL:395:LEU:HD13	1.94	0.49
4:TM:88:HIS:CE1	4:TM:121:ARG:HH22	2.30	0.49
3:TN:305:PRO:HA	3:TN:373:ALA:HB2	1.94	0.49
3:TN:378:PHE:CD1	3:TN:419:VAL:HG22	2.47	0.49
3:UB:295:ASP:HB2	3:UB:298:ASN:HB2	1.94	0.49
4:UC:287:SER:OG	4:UC:290:GLU:OE1	2.22	0.49
3:UD:258:VAL:HB	4:UE:407:TRP:HZ2	1.77	0.49
4:UE:352:LYS:NZ	3:UF:178:THR:HA	2.27	0.49
3:UF:394:PHE:HA	3:UF:397:TRP:HZ3	1.77	0.49
4:UG:225:THR:O	4:UG:229:ARG:HB2	2.12	0.49
4:UG:324:VAL:HG21	3:UH:219:THR:HG22	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UI:279:GLU:O	4:UI:282:TYR:HB3	2.13	0.49
3:UJ:347:ASN:HB3	4:UK:178:SER:HB3	1.94	0.49
4:UK:187:SER:O	4:UK:190:THR:OG1	2.23	0.49
3:UL:269:GLY:N	3:UL:367:PHE:O	2.46	0.49
3:VD:324:LYS:HD3	4:VE:210:TYR:CE1	2.48	0.49
3:VH:173:PRO:HB2	3:VH:174:LYS:NZ	2.27	0.49
4:VK:7:ILE:N	4:VK:136:LEU:O	2.36	0.49
4:VK:230:LEU:O	4:VK:234:ILE:HG12	2.12	0.49
4:WA:34:GLY:HA2	4:WA:86:LEU:HD21	1.94	0.49
3:WB:324:LYS:HE2	4:WC:222:PRO:CD	2.42	0.49
4:WE:30:ILE:HG13	4:WE:53:PHE:HE2	1.78	0.49
3:WF:12:CYS:HA	39:WF:501:GTP:HN22	1.77	0.49
3:WF:46:ARG:HH22	4:WG:73:THR:HG23	1.76	0.49
4:WI:120:ASP:HA	4:WI:123:ARG:HG2	1.95	0.49
4:WI:331:ALA:O	4:WI:334:THR:OG1	2.28	0.49
34:XB:72:LYS:HE2	35:XI:62:ARG:NH1	2.28	0.49
35:XJ:188:ASN:ND2	35:XJ:204:ASN:OD1	2.44	0.49
35:XM:134:ILE:HG22	35:XM:138:LYS:HD2	1.94	0.49
35:XM:153:LEU:HD22	35:XM:212:THR:HG21	1.93	0.49
35:XM:203:GLU:OE1	35:XM:203:GLU:N	2.41	0.49
37:YH:50:GLN:O	37:YH:53:MET:HG3	2.12	0.49
37:YK:6:GLU:HA	37:YK:9:ARG:HE	1.77	0.49
37:YM:25:PHE:O	37:YM:29:LEU:HG	2.12	0.49
37:YP:22:GLN:HE22	37:YP:125:LEU:HD21	1.77	0.49
37:YU:155:SER:HA	37:YU:158:LEU:HG	1.94	0.49
37:YV:110:LEU:HD23	37:YV:140:LEU:HD22	1.94	0.49
38:a:50:ARG:O	38:a:54:THR:N	2.35	0.49
38:a:58:GLU:HA	38:a:61:LEU:HB2	1.95	0.49
1:A:127:LYS:HZ2	1:B:467:VAL:H	1.60	0.49
2:A1:128:VAL:HB	2:A2:11:PHE:CZ	2.48	0.49
2:A2:66:ARG:O	2:A2:70:VAL:HG23	2.12	0.49
4:AC:433:GLU:O	4:AC:437:VAL:N	2.37	0.49
3:AD:285:THR:O	3:AD:288:GLU:HG3	2.13	0.49
4:AE:70:LEU:HA	4:AE:95:GLY:HA3	1.95	0.49
4:AE:265:ILE:HA	4:AE:267:PHE:CE2	2.48	0.49
4:AE:316:CYS:N	4:AE:378:LEU:O	2.25	0.49
4:AE:397:LEU:O	4:AE:401:LYS:HG2	2.12	0.49
4:AG:3:GLU:OE2	4:AG:130:THR:N	2.29	0.49
4:AI:36:MET:HG3	4:AI:41:THR:OG1	2.13	0.49
4:AI:207:GLU:HB2	4:AI:304:LYS:HZ1	1.76	0.49
4:AK:287:SER:OG	4:AK:290:GLU:OE1	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AL:83:GLN:OE1	3:AL:83:GLN:N	2.41	0.49
1:B:391:LEU:O	1:B:395:GLN:HG2	2.13	0.49
5:B2:204:ASN:HB3	5:B2:207:ARG:HH21	1.77	0.49
5:B3:130:ARG:CZ	5:B4:11:ARG:HG2	2.43	0.49
5:B4:214:THR:O	5:B4:217:GLN:HG2	2.12	0.49
5:B6:75:LYS:HA	5:B6:179:LYS:CE	2.37	0.49
5:B6:400:PRO:HG3	5:B6:403:LYS:HG2	1.93	0.49
5:B7:212:SER:HB3	5:B8:331:ARG:HH21	1.78	0.49
5:B9:307:LYS:HZ3	5:B9:352:MET:HG3	1.78	0.49
3:BB:155:ILE:HA	3:BB:158:GLU:HB2	1.94	0.49
4:BC:205:ASP:OD2	4:BC:304:LYS:NZ	2.41	0.49
4:BG:98:ASP:O	4:BG:105:ARG:NH2	2.41	0.49
3:BJ:52:ASN:CG	3:BJ:62:ARG:HD3	2.37	0.49
3:BJ:172:SER:OG	3:BJ:205:GLU:OE2	2.27	0.49
6:C:56:MET:HG2	6:C:65:PHE:HB2	1.94	0.49
7:C2:166:GLU:OE1	7:C2:315:ARG:NH2	2.45	0.49
7:C3:111:ASN:HA	7:C3:114:ARG:HE	1.78	0.49
7:C4:438:LEU:O	7:C4:442:GLU:OE1	2.31	0.49
4:CC:48:SER:OG	4:CC:243:ARG:NE	2.46	0.49
3:CD:239:CYS:HB3	3:CD:248:ALA:HA	1.94	0.49
4:CE:53:PHE:O	4:CE:64:ARG:NH1	2.46	0.49
3:CF:152:ILE:HA	3:CF:155:ILE:HG22	1.95	0.49
4:CI:84:ARG:NE	15:H4:212:LEU:HD12	2.28	0.49
4:CI:391:LEU:HA	4:CI:394:LYS:NZ	2.28	0.49
3:CJ:218:THR:OG1	3:CJ:219:THR:N	2.44	0.49
7:Cc:130:ASP:OD1	7:Cc:131:LYS:N	2.45	0.49
7:Cc:216:GLU:N	7:Cc:216:GLU:OE1	2.44	0.49
7:Cc:363:THR:HG22	7:Cc:367:LYS:NZ	2.27	0.49
6:D:32:TRP:HB2	6:D:92:LEU:HG	1.94	0.49
6:D:303:PHE:CG	6:D:385:GLU:HG3	2.48	0.49
8:D4:276:VAL:HG12	8:D4:280:LYS:HZ2	1.78	0.49
8:D8:129:ASP:HA	8:D8:132:MET:HE3	1.95	0.49
8:D8:164:HIS:HA	8:D8:167:LEU:HD23	1.94	0.49
8:D8:356:ARG:NH2	8:D8:359:GLN:OE1	2.46	0.49
3:DD:9:ALA:O	3:DD:13:GLY:HA3	2.13	0.49
3:DD:118:ASP:OD1	3:DD:121:ARG:NH1	2.46	0.49
3:DD:250:LEU:HD13	3:DD:253:LEU:HD12	1.94	0.49
4:DE:21:TRP:HD1	4:DE:53:PHE:CE1	2.30	0.49
3:DH:6:HIS:HB2	3:DH:134:GLN:NE2	2.28	0.49
3:DH:320:ARG:H	3:DH:363:MET:HE1	1.77	0.49
4:DI:122:ILE:O	4:DI:126:ALA:N	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DI:318:LEU:O	4:DI:375:VAL:HA	2.12	0.49
4:DI:333:ALA:HA	4:DI:336:LYS:HD2	1.95	0.49
3:DJ:376:GLU:H	3:DJ:376:GLU:CD	2.21	0.49
4:DK:186:ASN:OD1	4:DK:187:SER:N	2.45	0.49
10:E2:50:LYS:HE2	10:E2:52:THR:HG22	1.94	0.49
4:EC:50:ASN:O	4:EC:64:ARG:NH1	2.45	0.49
3:ED:318:ARG:C	3:ED:321:MET:HE1	2.38	0.49
4:EE:76:ASP:OD1	4:EE:79:ARG:NH1	2.45	0.49
3:EF:378:PHE:CD1	3:EF:419:VAL:HG22	2.48	0.49
4:EI:166:LYS:N	4:EI:199:ASP:OD2	2.46	0.49
3:EL:309:ARG:H	3:EL:372:THR:HG1	1.60	0.49
11:F2:112:TRP:O	11:F2:115:ARG:HG3	2.13	0.49
11:F7:315:ILE:HG23	11:F7:318:ARG:NH2	2.28	0.49
11:F8:366:GLN:HA	11:F8:369:PHE:CD2	2.48	0.49
11:F9:370:GLN:O	11:F9:374:THR:HG23	2.12	0.49
3:FB:378:PHE:CD1	3:FB:419:VAL:HG22	2.48	0.49
3:FD:13:GLY:HA2	3:FD:16:ILE:HB	1.94	0.49
3:FD:324:LYS:HE2	4:FE:222:PRO:CD	2.43	0.49
3:FD:380:ARG:O	3:FD:384:GLN:HG2	2.12	0.49
3:FF:309:ARG:HB2	3:FF:426:GLN:HE21	1.78	0.49
3:FH:330:MET:SD	3:FH:349:VAL:HG21	2.52	0.49
3:FJ:306:ARG:HH22	3:FJ:340:TYR:HE1	1.61	0.49
3:FL:166:THR:OG1	3:FL:198:GLU:O	2.23	0.49
11:Fc:145:ARG:O	11:Fc:149:LEU:HG	2.12	0.49
11:Ff:123:ILE:O	11:Ff:127:LYS:HG3	2.13	0.49
13:G1:105:GLU:HG2	13:G1:116:ARG:HB2	1.92	0.49
13:G3:497:GLU:OE1	13:G3:498:VAL:N	2.46	0.49
14:G4:293:TYR:CD2	14:G4:298:ILE:HG12	2.45	0.49
14:G4:437:PHE:HE1	14:G4:453:VAL:HG22	1.77	0.49
14:G4:630:ASN:C	14:G4:632:PHE:H	2.21	0.49
14:G5:356:CYS:HB2	14:G5:360:THR:OG1	2.12	0.49
3:GB:46:ARG:HH22	4:GC:73:THR:HG23	1.76	0.49
3:GB:246:LEU:HB3	3:GB:353:VAL:O	2.13	0.49
4:GC:172:TYR:HB2	4:GC:203:MET:HB3	1.94	0.49
4:GC:196:GLU:OE1	4:GC:196:GLU:N	2.38	0.49
4:GC:320:ARG:HD3	4:GC:360:PRO:HG3	1.95	0.49
3:GD:73:MET:O	3:GD:77:ARG:N	2.28	0.49
3:GF:31:ASP:N	3:GF:31:ASP:OD1	2.45	0.49
3:GF:149:THR:HG21	3:GF:191:GLN:HE21	1.78	0.49
3:GF:292:GLN:O	3:GF:298:ASN:ND2	2.40	0.49
4:GG:88:HIS:HB3	4:GG:91:GLN:CG	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GH:206:ALA:O	3:GH:210:ILE:HG12	2.12	0.49
3:GH:235:GLY:O	3:GH:238:THR:OG1	2.27	0.49
3:GJ:81:PHE:O	3:GJ:84:ILE:HG22	2.11	0.49
4:GK:89:PRO:HD2	4:HK:280:LYS:HZ2	1.77	0.49
4:GK:148:GLY:O	4:GK:151:SER:OG	2.30	0.49
4:GK:387:ALA:O	4:GK:391:LEU:HG	2.13	0.49
4:GK:402:ARG:HB2	4:GK:405:VAL:HG11	1.95	0.49
3:GL:176:SER:O	3:GL:178:THR:N	2.45	0.49
15:H5:11:THR:HG1	15:H5:15:HIS:CE1	2.30	0.49
15:H5:311:GLU:HA	15:H5:315:ARG:HG3	1.94	0.49
4:HA:16:ILE:HG22	4:HA:231:ILE:HD11	1.93	0.49
4:HA:166:LYS:N	4:HA:199:ASP:OD2	2.45	0.49
3:HD:30:ILE:HG13	3:HD:36:TYR:CD2	2.47	0.49
3:HD:218:THR:OG1	3:HD:219:THR:N	2.45	0.49
3:HD:345:ILE:HD12	3:HD:346:PRO:HD2	1.94	0.49
4:HE:402:ARG:HB2	4:HE:405:VAL:HG11	1.93	0.49
3:HF:28:HIS:O	3:HF:43:GLN:NE2	2.46	0.49
3:HF:251:ARG:O	3:HF:255:VAL:HG22	2.13	0.49
4:HG:145:THR:HG23	39:HG:501:GTP:O3B	2.13	0.49
4:HG:433:GLU:O	4:HG:437:VAL:N	2.44	0.49
4:HI:22:GLU:HG2	4:HI:83:TYR:CE2	2.47	0.49
4:HI:90:GLU:HG2	4:HI:121:ARG:NH2	2.28	0.49
4:HK:306:ASP:OD1	4:HK:308:ARG:NH1	2.45	0.49
3:HL:51:TYR:CD2	3:HL:59:TYR:HB3	2.47	0.49
4:IA:22:GLU:O	4:IA:26:LEU:HD23	2.13	0.49
4:IA:34:GLY:HA2	4:IA:86:LEU:HD11	1.94	0.49
4:IA:105:ARG:O	4:IA:109:THR:OG1	2.19	0.49
3:IB:11:GLN:HE21	39:IB:501:GTP:H3'	1.77	0.49
3:IF:7:LEU:HD13	3:IF:64:VAL:HB	1.94	0.49
4:IG:35:GLN:HG2	4:IG:59:GLY:O	2.13	0.49
4:II:331:ALA:O	4:II:334:THR:OG1	2.26	0.49
4:II:386:GLU:O	4:II:390:ARG:N	2.33	0.49
4:IK:252:LEU:HA	4:IK:255:PHE:CD2	2.47	0.49
3:JD:217:LEU:HD11	3:JD:220:PRO:HB3	1.95	0.49
4:JE:166:LYS:N	4:JE:199:ASP:OD2	2.46	0.49
4:JE:196:GLU:HG2	4:JE:197:HIS:ND1	2.28	0.49
4:JI:317:MET:N	4:JI:317:MET:SD	2.83	0.49
21:K3:261:ARG:HE	21:K3:276:GLN:HA	1.77	0.49
21:K4:464:ARG:NH1	21:K4:468:ARG:HB2	2.28	0.49
3:KB:102:ALA:O	3:KB:106:TYR:N	2.40	0.49
4:KC:55:GLU:HA	4:KC:60:LYS:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:KC:119:LEU:HB3	4:KC:123:ARG:NH2	2.28	0.49
3:KD:272:PRO:HA	3:KD:292:GLN:OE1	2.13	0.49
3:KF:323:MET:N	3:KF:323:MET:SD	2.86	0.49
4:KG:2:ARG:CZ	4:KG:242:LEU:HA	2.43	0.49
3:KH:28:HIS:ND1	3:KH:43:GLN:HB2	2.27	0.49
3:KH:258:VAL:HB	4:KI:407:TRP:HZ2	1.77	0.49
4:KI:36:MET:HG3	4:KI:41:THR:OG1	2.12	0.49
4:KI:141:PHE:CD2	4:KI:172:TYR:HA	2.48	0.49
3:KJ:372:THR:HB	3:KJ:375:GLN:HE22	1.78	0.49
22:L1:80:ARG:NH2	4:LA:193:THR:HA	2.28	0.49
22:L1:97:MET:HE3	3:LB:389:PHE:HB3	1.94	0.49
22:L2:206:GLU:O	22:L2:209:LYS:HG2	2.12	0.49
4:LA:212:ILE:HG13	4:LA:215:ARG:NH2	2.28	0.49
3:LB:423:GLN:HG2	3:LB:427:ASP:HB2	1.95	0.49
3:LD:324:LYS:HG3	3:LD:325:GLU:N	2.27	0.49
4:LG:216:ASN:HD21	4:LG:275:VAL:HG23	1.77	0.49
4:LG:282:TYR:HE1	27:R:343:LEU:HB2	1.77	0.49
3:LH:16:ILE:HG13	3:LH:226:ASN:HD22	1.75	0.49
4:LI:113:GLU:N	4:LI:113:GLU:OE1	2.46	0.49
3:LJ:245:GLN:NE2	39:LK:501:GTP:O6	2.44	0.49
4:LK:119:LEU:HB3	4:LK:123:ARG:NH2	2.27	0.49
4:LK:394:LYS:O	4:LK:398:MET:HG2	2.12	0.49
24:M3:95:ARG:NH1	24:M3:96:LEU:O	2.46	0.49
3:MB:28:HIS:CE1	3:MB:241:ARG:HH21	2.30	0.49
3:MB:302:ALA:HB1	3:MB:377:LEU:HD11	1.93	0.49
4:MC:438:ASP:C	28:O1:55:ARG:HH11	2.20	0.49
4:MG:51:THR:HG23	4:MG:52:PHE:CD2	2.48	0.49
3:MH:387:ALA:O	3:MH:391:ARG:NH1	2.46	0.49
4:MI:1:MET:O	4:MI:133:GLN:NE2	2.44	0.49
3:MJ:130:LEU:HD13	3:MJ:133:PHE:CE1	2.48	0.49
3:MJ:415:MET:O	3:MJ:419:VAL:HG23	2.11	0.49
4:MK:260:VAL:HG23	4:MK:265:ILE:O	2.13	0.49
4:MK:345:ASP:N	4:MK:345:ASP:OD1	2.42	0.49
4:MM:12:ALA:HB1	39:MM:501:GTP:N3	2.28	0.49
4:MM:206:ASN:HA	4:MM:209:ILE:HD12	1.95	0.49
26:N3:160:LYS:HZ1	4:VI:90:GLU:HA	1.76	0.49
4:NC:411:GLU:OE2	4:NC:413:MET:HE1	2.12	0.49
4:NE:216:ASN:OD1	4:NE:217:LEU:N	2.46	0.49
3:NF:114:ASP:OD1	3:NF:115:SER:N	2.46	0.49
3:NF:130:LEU:HB2	3:NF:162:ARG:HH11	1.76	0.49
3:NH:406:MET:O	3:NH:409:THR:OG1	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:NI:329:ASN:OD1	4:NI:330:ALA:N	2.45	0.49
4:NI:371:VAL:HG11	4:NI:374:ALA:HB2	1.95	0.49
28:O2:30:GLU:C	28:O2:31:LYS:HD3	2.38	0.49
28:O3:16:PRO:HB3	28:O3:21:ASN:HB3	1.95	0.49
4:OA:423:GLU:HA	4:OA:426:ALA:HB3	1.94	0.49
3:OB:73:MET:HE1	3:OB:92:PHE:CG	2.48	0.49
3:OD:309:ARG:H	3:OD:372:THR:HG1	1.59	0.49
4:OE:32:PRO:O	4:OE:85:GLN:NE2	2.45	0.49
4:OE:182:VAL:HA	4:OE:185:TYR:HD2	1.78	0.49
4:OE:413:MET:SD	4:OE:413:MET:N	2.86	0.49
4:OG:256:GLN:O	4:OG:260:VAL:HG12	2.13	0.49
4:OG:400:ALA:O	4:OG:402:ARG:NH1	2.44	0.49
3:OH:3:GLU:OE2	3:OH:127:CYS:HB2	2.13	0.49
3:OH:12:CYS:SG	3:OH:13:GLY:N	2.86	0.49
3:OH:135:LEU:HD13	3:OH:164:MET:HE1	1.94	0.49
3:OJ:378:PHE:HA	3:OJ:381:ILE:HG22	1.94	0.49
4:OK:287:SER:N	4:OK:290:GLU:OE2	2.46	0.49
29:P2:248:LYS:HB2	3:WH:33:THR:HG22	1.94	0.49
29:P3:59:PHE:H	29:P3:101:ARG:NH1	2.10	0.49
29:P3:250:SER:HB3	3:WL:37:HIS:HE1	1.77	0.49
4:PC:70:LEU:HG	4:PC:149:PHE:CZ	2.48	0.49
3:PD:145:SER:HB2	3:PD:188:SER:HB3	1.95	0.49
3:PF:148:GLY:O	3:PF:152:ILE:HG12	2.13	0.49
3:PF:269:GLY:O	3:PF:367:PHE:N	2.36	0.49
4:PG:115:VAL:HA	4:PG:118:VAL:HG22	1.95	0.49
3:PH:118:ASP:OD1	3:PH:121:ARG:NH1	2.46	0.49
3:PH:187:LEU:HD21	3:PH:408:PHE:CE1	2.48	0.49
4:PI:1:MET:HE3	4:PI:50:ASN:ND2	2.28	0.49
3:PJ:179:VAL:HG21	3:PJ:394:PHE:HE2	1.78	0.49
3:PJ:318:ARG:HD3	3:PJ:358:PRO:HG3	1.95	0.49
4:PK:207:GLU:HB2	4:PK:304:LYS:NZ	2.27	0.49
4:PK:331:ALA:O	4:PK:334:THR:OG1	2.26	0.49
3:PL:250:LEU:O	3:PL:254:ALA:N	2.33	0.49
4:PM:395:PHE:HB3	4:PM:422:ARG:HH22	1.76	0.49
30:Q1:1408:LYS:HZ1	30:Q1:1513:ALA:HA	1.77	0.49
30:Q3:1417:ARG:CG	30:Q3:1419:ARG:HG2	2.43	0.49
3:QB:81:PHE:O	3:QB:84:ILE:HG22	2.12	0.49
3:QB:114:ASP:OD1	3:QB:115:SER:N	2.45	0.49
3:QD:318:ARG:HD3	3:QD:358:PRO:HG3	1.95	0.49
3:QD:330:MET:HA	3:QD:333:VAL:HG12	1.93	0.49
4:QG:6:SER:HA	4:QG:136:LEU:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:QG:52:PHE:HE2	4:QG:243:ARG:HH11	1.59	0.49
4:QG:312:TYR:HB2	4:QG:343:PHE:HA	1.93	0.49
3:QJ:255:VAL:HA	4:QK:407:TRP:CE2	2.48	0.49
4:QK:274:PRO:HG3	4:QK:374:ALA:HA	1.95	0.49
3:QL:121:ARG:HA	3:QL:124:ALA:HB3	1.94	0.49
4:QM:329:ASN:OD1	4:QM:330:ALA:N	2.46	0.49
3:RB:233:MET:HE3	3:RB:233:MET:HA	1.93	0.49
4:RC:321:GLY:HA3	4:RC:372:GLN:O	2.13	0.49
4:RE:326:LYS:HD2	3:RF:208:TYR:CE2	2.47	0.49
4:RG:223:THR:OG1	4:RG:225:THR:OG1	2.24	0.49
3:RH:289:LEU:O	3:RH:293:MET:HG2	2.12	0.49
4:RI:189:LEU:HA	4:RI:192:HIS:HD1	1.78	0.49
4:RI:332:ILE:O	4:RI:336:LYS:HG3	2.13	0.49
3:RL:114:ASP:OD1	3:RL:115:SER:N	2.45	0.49
3:RL:251:ARG:HH12	4:RM:105:ARG:CZ	2.26	0.49
4:RM:51:THR:HG23	4:RM:52:PHE:CD2	2.47	0.49
3:SD:256:ASN:HD21	4:SE:101:ASN:ND2	2.10	0.49
4:SE:345:ASP:N	4:SE:345:ASP:OD1	2.43	0.49
3:SF:70:PRO:HA	3:SF:73:MET:HE2	1.94	0.49
3:SF:189:VAL:HA	3:SF:192:LEU:HB2	1.95	0.49
4:SG:288:VAL:HG21	4:SG:328:VAL:HG12	1.93	0.49
4:SI:5:ILE:HD13	4:SI:64:ARG:HB3	1.94	0.49
4:SI:89:PRO:HB2	4:SI:90:GLU:OE1	2.13	0.49
4:SI:105:ARG:NE	4:SI:411:GLU:HG2	2.28	0.49
4:SK:185:TYR:CE2	4:SK:398:MET:HE1	2.47	0.49
3:SL:11:GLN:HG3	39:SL:501:GTP:PA	2.53	0.49
3:SL:255:VAL:HA	4:SM:407:TRP:NE1	2.28	0.49
4:SM:406:HIS:HA	4:SM:409:VAL:HG22	1.94	0.49
3:TF:330:MET:HA	3:TF:333:VAL:HG12	1.95	0.49
4:TG:1:MET:HE1	4:TG:51:THR:HB	1.94	0.49
3:TH:182:PRO:HB2	3:TH:388:MET:CE	2.42	0.49
3:TL:359:ARG:NH2	36:Z:283:GLN:HB3	2.27	0.49
3:TN:12:CYS:SG	3:TN:13:GLY:N	2.85	0.49
3:UH:12:CYS:SG	39:UH:501:GTP:H5'	2.53	0.49
3:UH:13:GLY:HA2	3:UH:16:ILE:HB	1.93	0.49
3:UH:378:PHE:CD1	3:UH:419:VAL:HG22	2.46	0.49
3:UJ:46:ARG:NH2	3:UJ:243:PRO:HD3	2.28	0.49
3:UJ:132:GLY:HA3	3:UJ:163:ILE:H	1.77	0.49
3:UL:152:ILE:HA	3:UL:155:ILE:HG12	1.95	0.49
3:UL:282:ARG:NH2	3:UL:292:GLN:OE1	2.33	0.49
4:VA:50:ASN:OD1	4:VA:51:THR:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:VA:272:TYR:CZ	4:VA:274:PRO:HG2	2.48	0.49
3:VD:323:MET:SD	3:VD:324:LYS:NZ	2.72	0.49
3:VF:152:ILE:O	3:VF:156:ARG:HG2	2.13	0.49
3:VF:182:PRO:HB2	3:VF:388:MET:CE	2.42	0.49
4:VG:386:GLU:HA	4:VG:389:ALA:HB3	1.94	0.49
4:VG:397:LEU:O	4:VG:401:LYS:HG2	2.11	0.49
3:VH:175:VAL:HG22	3:VH:177:ASP:H	1.77	0.49
33:W:334:ARG:O	33:W:338:GLN:N	2.45	0.49
3:WB:12:CYS:HB3	39:WB:501:GTP:H5'	1.95	0.49
4:WE:236:SER:O	4:WE:243:ARG:NH2	2.36	0.49
3:WF:166:THR:OG1	3:WF:198:GLU:O	2.25	0.49
3:WF:252:LYS:O	3:WF:256:ASN:ND2	2.46	0.49
3:WH:323:MET:SD	3:WH:323:MET:N	2.83	0.49
3:WJ:240:LEU:HD22	3:WJ:248:ALA:HB1	1.93	0.49
4:WK:47:ASP:HB3	4:WK:49:PHE:CE2	2.48	0.49
4:WK:208:ALA:N	4:WK:304:LYS:HZ1	2.05	0.49
35:XJ:213:LEU:HB3	35:XJ:235:TYR:CE1	2.48	0.49
37:YB:8:LEU:HA	37:YB:11:ILE:HB	1.93	0.49
37:YB:68:MET:O	37:YB:72:ILE:HG13	2.13	0.49
37:YF:32:CYS:HA	37:YF:56:TYR:CE1	2.48	0.49
37:YK:41:ARG:HH12	37:YK:45:SER:H	1.61	0.49
37:YM:33:ARG:NH2	37:YM:134:TYR:OH	2.46	0.49
37:YR:11:ILE:HD11	37:YR:72:ILE:HB	1.95	0.49
36:Z:226:ARG:O	36:Z:230:GLU:HG2	2.13	0.49
2:A2:43:ARG:HH12	5:B4:43:ARG:C	2.20	0.49
3:AB:309:ARG:H	3:AB:372:THR:HG1	1.51	0.49
3:AB:328:GLU:OE1	3:AB:332:ASN:ND2	2.46	0.49
4:AC:208:ALA:H	4:AC:304:LYS:HZ1	1.60	0.49
3:AD:12:CYS:HA	3:AD:15:GLN:OE1	2.12	0.49
4:AG:271:THR:HB	4:AG:377:MET:HE3	1.95	0.49
4:AG:363:VAL:HG12	4:AG:368:LEU:HD22	1.94	0.49
3:AH:320:ARG:H	3:AH:363:MET:HE1	1.78	0.49
4:AK:370:LYS:HG2	14:G6:72:VAL:HG12	1.95	0.49
1:B:363:LEU:O	1:B:366:GLN:NE2	2.45	0.49
5:B2:34:ALA:O	5:B2:38:ILE:HG12	2.12	0.49
5:B3:77:THR:HA	5:B3:80:LYS:HE3	1.94	0.49
5:B3:219:ASP:OD2	5:B3:223:ARG:NH2	2.46	0.49
5:B8:39:ARG:NH1	5:B9:293:LEU:HA	2.28	0.49
3:BD:176:SER:O	3:BD:178:THR:N	2.45	0.49
4:BG:88:HIS:HA	4:CG:283:HIS:CE1	2.46	0.49
4:BG:287:SER:N	4:BG:290:GLU:OE2	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BG:392:ASP:OD1	4:BG:393:HIS:N	2.45	0.49
3:BH:139:LEU:N	3:BH:168:SER:OG	2.45	0.49
4:BI:345:ASP:N	4:BI:345:ASP:OD1	2.46	0.49
3:BJ:306:ARG:O	3:BJ:306:ARG:NE	2.42	0.49
4:BK:34:GLY:HA2	4:BK:86:LEU:HD21	1.93	0.49
4:BK:160:ASP:OD1	4:BK:161:TYR:N	2.45	0.49
6:C:139:ILE:HG13	6:C:292:MET:HE1	1.93	0.49
7:C6:230:GLN:HA	7:C6:233:MET:HE2	1.94	0.49
7:C6:260:ASP:OD1	7:C6:261:LYS:N	2.46	0.49
7:C7:309:LEU:HA	7:C7:312:GLN:NE2	2.28	0.49
7:C8:116:ASN:HA	7:C8:119:ARG:NE	2.28	0.49
3:CB:284:LEU:HG	3:CB:289:LEU:HD11	1.95	0.49
3:CD:114:ASP:OD1	3:CD:115:SER:N	2.45	0.49
3:CF:67:ASP:OD2	3:CF:72:THR:OG1	2.30	0.49
3:CF:325:GLU:O	3:CF:329:GLN:HG2	2.13	0.49
4:CG:136:LEU:HD12	4:CG:169:PHE:CE1	2.47	0.49
3:CJ:152:ILE:O	3:CJ:156:ARG:HG2	2.13	0.49
4:CK:345:ASP:N	4:CK:345:ASP:OD1	2.46	0.49
3:CL:40:SER:HB3	3:CL:42:LEU:HD23	1.93	0.49
3:CL:101:TRP:CE3	3:CL:187:LEU:HD13	2.48	0.49
4:CM:47:ASP:HB3	4:CM:49:PHE:CE2	2.48	0.49
7:Cb:377:MET:HA	7:Cb:380:GLU:CD	2.37	0.49
6:D:380:GLU:OE2	6:D:380:GLU:N	2.44	0.49
8:D2:117:LEU:HD12	8:D2:218:LYS:NZ	2.21	0.49
8:D3:54:ASP:OD1	8:D3:54:ASP:N	2.46	0.49
8:D6:333:GLU:N	8:D6:333:GLU:OE1	2.46	0.49
8:D7:112:CYS:HG	8:D7:113:TRP:CD1	2.30	0.49
8:D7:400:GLN:HA	8:D7:403:ARG:HE	1.77	0.49
8:D8:136:LEU:HB3	8:D8:140:ARG:NH1	2.26	0.49
4:DA:49:PHE:CE1	4:DA:55:GLU:HB3	2.48	0.49
3:DB:272:PRO:HA	3:DB:292:GLN:OE1	2.13	0.49
4:DC:118:VAL:HA	4:DC:121:ARG:HG2	1.95	0.49
4:DC:423:GLU:O	4:DC:427:ALA:N	2.41	0.49
4:DE:115:VAL:HA	4:DE:118:VAL:HG12	1.95	0.49
3:DF:3:GLU:HG2	3:DF:130:LEU:HD23	1.94	0.49
3:DH:306:ARG:O	3:DH:306:ARG:NE	2.44	0.49
3:DJ:239:CYS:HA	3:DJ:246:LEU:HD11	1.94	0.49
10:E1:3:ASN:HA	10:E1:6:ARG:CZ	2.42	0.49
4:EA:81:GLY:O	4:EA:84:ARG:NH1	2.45	0.49
4:EA:88:HIS:HB3	4:EA:91:GLN:CG	2.43	0.49
4:EA:192:HIS:HA	4:EA:195:LEU:HD23	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EB:384:GLN:O	3:EB:388:MET:HG2	2.11	0.49
4:EC:196:GLU:OE1	4:EC:196:GLU:N	2.35	0.49
3:ED:175:VAL:HG22	3:ED:177:ASP:H	1.77	0.49
3:ED:235:GLY:O	3:ED:238:THR:OG1	2.25	0.49
4:EE:47:ASP:HB3	4:EE:49:PHE:CE2	2.47	0.49
4:EI:10:GLY:HA2	4:EI:145:THR:OG1	2.12	0.49
4:EI:196:GLU:OE1	4:EI:196:GLU:N	2.42	0.49
3:EL:30:ILE:HG13	3:EL:36:TYR:CD1	2.48	0.49
11:F1:402:ARG:CD	11:F1:406:GLU:HG2	2.37	0.49
11:F3:390:LYS:HB2	11:F3:391:MET:HE2	1.94	0.49
11:F8:366:GLN:HG2	11:F8:367:GLU:N	2.28	0.49
11:F9:410:ASP:CG	11:F9:411:VAL:H	2.20	0.49
11:F9:412:PRO:HG2	11:Fa:145:ARG:CZ	2.43	0.49
4:FC:166:LYS:N	4:FC:199:ASP:OD2	2.45	0.49
4:FG:9:VAL:HG22	4:FG:146:GLY:HA2	1.95	0.49
4:FG:196:GLU:OE1	4:FG:196:GLU:N	2.39	0.49
3:FH:306:ARG:O	3:FH:306:ARG:NE	2.41	0.49
3:FJ:176:SER:O	3:FJ:178:THR:N	2.46	0.49
4:FK:345:ASP:OD1	4:FK:345:ASP:N	2.44	0.49
3:FL:41:ASP:N	3:FL:41:ASP:OD1	2.46	0.49
11:Fa:416:LEU:O	11:Fa:420:VAL:HG23	2.12	0.49
11:Fb:284:GLU:N	11:Fb:284:GLU:OE2	2.45	0.49
11:Fb:360:GLN:HA	11:Fb:363:LYS:HG2	1.93	0.49
11:Fb:391:MET:O	11:Fb:395:MET:HG2	2.13	0.49
11:Fc:343:PHE:CD2	11:Fc:470:MET:HE2	2.28	0.49
11:Fg:253:ASP:O	11:Fg:257:LYS:HG2	2.13	0.49
11:Fj:458:LYS:O	11:Fj:462:LEU:HG	2.12	0.49
11:Fm:219:VAL:O	11:Fm:223:LYS:HG2	2.13	0.49
11:Fm:418:ASN:OD1	11:Fm:419:GLU:N	2.45	0.49
13:G1:22:LYS:HB3	13:G1:25:PHE:HE1	1.78	0.49
13:G1:127:GLU:HG2	13:G1:128:ASP:N	2.27	0.49
13:G2:251:ASP:O	13:G2:257:GLY:HA3	2.12	0.49
13:G3:274:GLU:OE2	13:G3:276:ARG:HG2	2.12	0.49
14:G4:211:ARG:HD3	14:G4:211:ARG:O	2.12	0.49
14:G5:30:ASN:ND2	14:G5:31:ASN:H	2.11	0.49
14:G5:402:SER:O	14:G5:405:SER:OG	2.27	0.49
14:G6:393:TYR:OH	14:G6:406:CYS:SG	2.53	0.49
3:GD:240:LEU:HD13	3:GD:248:ALA:HB1	1.93	0.49
4:GE:228:ASN:HA	4:GE:231:ILE:HG22	1.94	0.49
4:GE:287:SER:N	4:GE:290:GLU:OE2	2.45	0.49
4:GG:254:GLU:OE1	4:GG:254:GLU:N	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GJ:173:PRO:HD3	3:GJ:203:ASP:OD1	2.12	0.49
3:GJ:252:LYS:O	3:GJ:256:ASN:ND2	2.45	0.49
4:GK:178:SER:OG	4:GK:180:ALA:O	2.31	0.49
4:GK:329:ASN:HA	4:GK:332:ILE:HG12	1.95	0.49
15:H2:246:ASP:HA	15:H2:249:LYS:HE3	1.94	0.49
15:H2:283:PRO:HA	15:H2:300:PHE:CD2	2.48	0.49
15:H3:212:LEU:HG	15:H3:213:ILE:HG12	1.94	0.49
4:HE:182:VAL:HA	4:HE:185:TYR:HD2	1.78	0.49
4:HE:418:PHE:HB3	4:HE:422:ARG:NH1	2.26	0.49
3:HF:12:CYS:SG	39:HF:501:GTP:H5'	2.52	0.49
4:HG:215:ARG:NH1	4:HG:299:ALA:HB1	2.28	0.49
3:HH:289:LEU:HD21	3:HH:363:MET:HB3	1.95	0.49
3:HJ:41:ASP:N	3:HJ:41:ASP:OD1	2.46	0.49
3:HJ:316:VAL:N	3:HJ:366:THR:O	2.42	0.49
4:HK:47:ASP:HB3	4:HK:49:PHE:CE2	2.48	0.49
3:HL:287:PRO:O	3:HL:290:THR:OG1	2.23	0.49
4:IA:3:GLU:CD	4:IA:131:GLY:H	2.20	0.49
3:IB:392:LYS:HD2	3:IB:392:LYS:O	2.13	0.49
4:IC:138:PHE:CE1	4:IC:169:PHE:HD2	2.30	0.49
4:IE:3:GLU:CD	4:IE:131:GLY:H	2.21	0.49
4:IE:191:THR:HG21	4:IE:388:TRP:HH2	1.76	0.49
3:IF:318:ARG:HA	3:IF:354:CYS:HB3	1.95	0.49
4:IG:207:GLU:HB2	4:IG:304:LYS:NZ	2.26	0.49
3:IH:266:PHE:HB3	3:IH:368:ILE:HD11	1.95	0.49
3:IH:385:PHE:HZ	3:IH:408:PHE:HB3	1.76	0.49
4:II:386:GLU:HA	4:II:389:ALA:HB3	1.95	0.49
3:IJ:166:THR:OG1	3:IJ:198:GLU:O	2.27	0.49
4:IK:329:ASN:HA	4:IK:332:ILE:HG12	1.95	0.49
3:IL:120:VAL:O	3:IL:124:ALA:N	2.44	0.49
3:IL:389:PHE:HZ	3:IL:405:GLU:HB2	1.78	0.49
4:IM:88:HIS:HB3	4:IM:91:GLN:HG2	1.93	0.49
19:J3:165:VAL:HG13	19:J3:178:ILE:HG12	1.93	0.49
4:JA:75:VAL:HG22	4:JA:79:ARG:HH21	1.77	0.49
4:JC:192:HIS:CE1	4:JC:193:THR:HG23	2.47	0.49
4:JC:205:ASP:OD2	4:JC:304:LYS:NZ	2.36	0.49
4:JC:256:GLN:O	4:JC:260:VAL:HG12	2.12	0.49
3:JD:415:MET:O	3:JD:419:VAL:HG23	2.13	0.49
4:JE:260:VAL:HG23	4:JE:265:ILE:O	2.13	0.49
4:JG:390:ARG:HA	4:JG:393:HIS:CE1	2.47	0.49
4:JK:244:PHE:HD2	4:JK:358:GLN:HB2	1.76	0.49
20:K:38:LEU:HG	20:K:40:ILE:HG12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:K1:402:GLN:O	21:K1:404:HIS:N	2.45	0.49
21:K2:131:ARG:HA	21:K2:134:ARG:NE	2.28	0.49
21:K3:220:SER:O	21:K3:224:LEU:HG	2.13	0.49
21:K4:142:ARG:HD3	21:K4:264:TRP:CD1	2.48	0.49
21:K5:109:LEU:HB3	21:K5:110:PRO:HD3	1.94	0.49
4:KA:392:ASP:OD1	4:KA:393:HIS:N	2.45	0.49
3:KB:271:ALA:HB2	3:KB:365:ALA:HB3	1.94	0.49
4:KC:46:ASP:OD1	4:KC:50:ASN:ND2	2.43	0.49
4:KC:265:ILE:HD12	4:KC:432:TYR:CE1	2.48	0.49
3:KD:3:GLU:OE2	3:KD:127:CYS:HB2	2.13	0.49
3:KD:398:TYR:O	3:KD:403:MET:HE2	2.13	0.49
4:KE:12:ALA:O	39:KE:501:GTP:N1	2.45	0.49
4:KE:234:ILE:HD11	4:KE:272:TYR:HB2	1.95	0.49
3:KF:309:ARG:HE	3:KF:426:GLN:HE21	1.59	0.49
4:KG:21:TRP:CD1	4:KG:53:PHE:HE1	2.30	0.49
4:KG:186:ASN:HA	4:KG:189:LEU:HD12	1.95	0.49
4:KG:224:TYR:CE1	39:KG:501:GTP:C5	2.96	0.49
4:KI:189:LEU:HA	4:KI:192:HIS:HD1	1.78	0.49
4:KK:114:ILE:HB	4:KK:149:PHE:HZ	1.78	0.49
22:L2:42:PHE:O	22:L2:43:LYS:HE2	2.12	0.49
22:L3:62:PHE:HE2	3:LH:190:HIS:CE1	2.30	0.49
22:L3:254:ASN:H	33:W:106:PRO:CD	2.13	0.49
22:L3:255:LYS:HG3	33:W:105:SER:HB3	1.95	0.49
22:L4:49:MET:HE2	3:ML:340:TYR:CD2	2.47	0.49
3:LB:317:PHE:O	3:LB:354:CYS:N	2.30	0.49
4:LG:89:PRO:HD2	4:MG:280:LYS:HZ3	1.78	0.49
4:LG:116:ASP:N	4:LG:116:ASP:OD1	2.43	0.49
4:LG:260:VAL:O	3:LH:397:TRP:HH2	1.96	0.49
3:LJ:252:LYS:O	3:LJ:256:ASN:ND2	2.46	0.49
3:LJ:271:ALA:HB2	3:LJ:365:ALA:O	2.12	0.49
4:LK:46:ASP:OD1	4:LK:50:ASN:ND2	2.40	0.49
3:LL:87:PRO:HA	3:LL:90:PHE:CD2	2.47	0.49
24:M2:59:PRO:HA	24:M2:62:GLU:HB3	1.95	0.49
4:MC:224:TYR:HA	4:MC:227:LEU:HB2	1.95	0.49
4:MC:405:VAL:O	4:MC:409:VAL:HG22	2.13	0.49
4:ME:116:ASP:N	4:ME:116:ASP:OD1	2.44	0.49
4:ME:320:ARG:HG2	4:ME:358:GLN:O	2.13	0.49
4:MG:2:ARG:NH1	4:MG:241:SER:O	2.46	0.49
4:MI:311:LYS:NZ	4:MI:343:PHE:O	2.44	0.49
3:MJ:52:ASN:CG	3:MJ:62:ARG:HD3	2.36	0.49
3:MJ:306:ARG:O	3:MJ:306:ARG:NE	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MK:49:PHE:O	4:MK:52:PHE:N	2.41	0.49
4:MK:202:PHE:CD1	4:MK:268:PRO:HD2	2.47	0.49
3:ML:70:PRO:HA	3:ML:73:MET:HE2	1.94	0.49
3:ML:114:ASP:OD1	3:ML:115:SER:N	2.45	0.49
4:MM:104:ALA:O	4:MM:108:TYR:N	2.43	0.49
4:MM:115:VAL:HA	4:MM:118:VAL:HG22	1.93	0.49
4:MM:371:VAL:HG11	4:MM:374:ALA:HB2	1.94	0.49
4:NC:427:ALA:HA	4:NC:430:LYS:HG2	1.95	0.49
3:ND:3:GLU:HG2	3:ND:130:LEU:HD23	1.95	0.49
4:NE:408:TYR:O	4:NE:411:GLU:HG3	2.13	0.49
3:NF:166:THR:OG1	3:NF:198:GLU:O	2.30	0.49
4:NG:2:ARG:HA	4:NG:133:GLN:HE22	1.76	0.49
3:NH:246:LEU:HD22	3:NH:354:CYS:HA	1.94	0.49
4:NI:256:GLN:O	4:NI:260:VAL:HG12	2.12	0.49
4:NK:47:ASP:HB3	4:NK:49:PHE:CE2	2.48	0.49
4:NK:331:ALA:O	4:NK:334:THR:OG1	2.24	0.49
3:NL:151:LEU:HD22	3:NL:154:LYS:HZ1	1.78	0.49
4:OG:16:ILE:HD11	4:OG:138:PHE:HB3	1.95	0.49
4:OG:287:SER:N	4:OG:290:GLU:OE2	2.46	0.49
3:OH:52:ASN:OD1	3:OH:62:ARG:NH1	2.46	0.49
3:OH:156:ARG:CZ	3:OH:195:ASN:HA	2.42	0.49
4:OI:28:HIS:HB2	4:OI:30:ILE:CD1	2.43	0.49
3:OL:423:GLN:O	3:OL:427:ASP:N	2.45	0.49
3:PB:57:GLY:HA3	37:YC:60:SER:HB3	1.94	0.49
4:PI:3:GLU:N	4:PI:133:GLN:OE1	2.46	0.49
30:Q1:1463:LYS:HE2	30:Q1:1469:LEU:HD22	1.95	0.49
30:Q2:1383:ILE:HG13	30:Q2:1384:VAL:HG13	1.94	0.49
3:QD:46:ARG:HH22	4:QE:73:THR:HG23	1.78	0.49
3:QD:357:PRO:HB3	3:QD:362:LYS:HA	1.94	0.49
4:QG:138:PHE:HZ	4:QG:235:VAL:HG21	1.78	0.49
4:QK:54:SER:N	4:QK:62:VAL:O	2.45	0.49
3:QL:91:VAL:HG11	3:QL:116:VAL:HG12	1.94	0.49
3:QL:286:VAL:HG21	3:QL:325:GLU:HG3	1.94	0.49
3:RB:234:SER:O	3:RB:238:THR:HG23	2.13	0.49
4:RC:84:ARG:HD3	4:RC:85:GLN:OE1	2.12	0.49
4:RE:154:MET:HE1	4:RE:197:HIS:HB2	1.94	0.49
4:RE:210:TYR:OH	4:RE:221:ARG:NH2	2.45	0.49
3:RF:324:LYS:HD2	4:RG:221:ARG:HA	1.95	0.49
4:RG:49:PHE:O	4:RG:53:PHE:N	2.45	0.49
3:RH:147:MET:HA	3:RH:150:LEU:HB2	1.94	0.49
3:RH:380:ARG:O	3:RH:384:GLN:HG2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:RI:35:GLN:HG2	4:RI:59:GLY:O	2.13	0.49
3:RJ:190:HIS:O	3:RJ:193:VAL:HG12	2.13	0.49
4:RK:245:ASP:O	4:RK:356:ASN:ND2	2.45	0.49
3:RL:120:VAL:O	3:RL:124:ALA:N	2.44	0.49
4:RM:70:LEU:HA	4:RM:95:GLY:HA3	1.94	0.49
4:RM:206:ASN:HA	4:RM:209:ILE:HD12	1.94	0.49
32:S:413:THR:OG1	32:S:416:THR:O	2.31	0.49
3:SB:324:LYS:HD3	4:SC:210:TYR:CE1	2.48	0.49
3:SD:13:GLY:HA2	3:SD:16:ILE:HB	1.94	0.49
3:SF:346:PRO:HD2	4:SG:398:MET:CE	2.43	0.49
4:SG:214:ARG:NH1	4:SG:215:ARG:HG3	2.27	0.49
3:SH:139:LEU:N	3:SH:168:SER:OG	2.46	0.49
3:SH:190:HIS:ND1	3:SH:411:ALA:HA	2.28	0.49
4:SM:216:ASN:HD21	4:SM:275:VAL:HG23	1.77	0.49
4:TC:10:GLY:O	4:TC:14:VAL:HG13	2.12	0.49
3:TF:282:ARG:HE	3:TF:288:GLU:CD	2.20	0.49
4:TG:107:HIS:CD2	4:TG:152:LEU:HB2	2.48	0.49
4:TG:329:ASN:OD1	4:TG:330:ALA:N	2.46	0.49
3:TH:12:CYS:HA	39:TH:501:GTP:HN22	1.77	0.49
3:TH:218:THR:OG1	3:TH:219:THR:N	2.45	0.49
3:TH:402:GLY:C	3:TH:403:MET:HE2	2.37	0.49
3:TJ:258:VAL:HB	4:TK:407:TRP:HZ2	1.77	0.49
4:TK:42:ILE:HG12	4:TK:55:GLU:OE2	2.13	0.49
3:TL:117:LEU:HD21	3:TL:154:LYS:HD3	1.94	0.49
3:TL:344:TRP:HD1	4:TM:401:LYS:HD2	1.78	0.49
4:UA:254:GLU:OE1	4:UA:254:GLU:N	2.42	0.49
3:UB:176:SER:O	3:UB:178:THR:N	2.45	0.49
3:UD:131:GLN:HB3	3:UD:163:ILE:HD12	1.95	0.49
3:UD:152:ILE:HD12	3:UD:195:ASN:HB2	1.94	0.49
3:UD:200:TYR:CE2	3:UD:233:MET:HE1	2.40	0.49
3:UF:270:PHE:HD2	3:UF:273:LEU:HD21	1.77	0.49
3:UF:288:GLU:O	3:UF:291:GLN:NE2	2.40	0.49
4:UG:105:ARG:HD2	4:UG:109:THR:OG1	2.12	0.49
4:UG:115:VAL:HA	4:UG:118:VAL:HG12	1.95	0.49
4:UG:138:PHE:CZ	4:UG:235:VAL:HG11	2.44	0.49
3:UH:3:GLU:OE2	3:UH:127:CYS:HB2	2.13	0.49
3:UJ:316:VAL:HG22	3:UJ:352:ALA:HB3	1.95	0.49
3:VB:289:LEU:O	3:VB:293:MET:HG2	2.12	0.49
4:VC:245:ASP:OD1	4:VC:249:ASN:ND2	2.40	0.49
4:VC:260:VAL:O	3:VD:397:TRP:HH2	1.96	0.49
3:VD:295:ASP:HB2	3:VD:298:ASN:HB2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VF:258:VAL:HG13	3:VF:263:LEU:HB2	1.95	0.49
4:VG:154:MET:HA	4:VG:157:LEU:HG	1.94	0.49
4:VG:210:TYR:HE1	4:VG:227:LEU:HD11	1.77	0.49
3:VH:234:SER:O	3:VH:238:THR:HG23	2.13	0.49
3:VH:386:THR:O	3:VH:390:ARG:HG2	2.13	0.49
3:VJ:380:ARG:O	3:VJ:384:GLN:HG2	2.13	0.49
3:VJ:394:PHE:HA	3:VJ:397:TRP:HZ3	1.77	0.49
3:VL:28:HIS:ND1	3:VL:43:GLN:HB2	2.28	0.49
33:W:359:GLU:OE2	33:W:360:LYS:NZ	2.40	0.49
4:WE:139:HIS:CD2	4:WE:170:ALA:HB2	2.48	0.49
4:WE:187:SER:O	4:WE:190:THR:OG1	2.27	0.49
3:WF:141:GLY:HA3	39:WF:501:GTP:H5”	1.95	0.49
4:WG:141:PHE:HB2	4:WG:173:PRO:HD3	1.95	0.49
4:WG:224:TYR:CE1	39:WG:501:GTP:C5	2.92	0.49
33:X:476:ASN:O	33:X:480:ARG:HG2	2.12	0.49
34:XA:115:LYS:HG2	34:XA:116:PRO:HD2	1.93	0.49
34:XB:59:ILE:CG2	34:XB:156:ILE:HB	2.43	0.49
34:XF:94:LEU:HD13	34:XF:100:ARG:HH11	1.76	0.49
35:XH:97:PHE:CE2	35:XH:133:LEU:HD22	2.48	0.49
35:XH:188:ASN:HD21	35:XH:206:GLY:H	1.61	0.49
35:XJ:207:ASP:O	35:XJ:210:GLN:NE2	2.46	0.49
35:XK:72:ASP:OD1	35:XK:76:ASN:ND2	2.45	0.49
35:XL:56:PHE:CZ	35:XL:96:PHE:HA	2.47	0.49
35:XM:108:GLU:O	35:XM:112:ARG:HG2	2.12	0.49
37:YB:108:ASN:HB3	37:YB:110:LEU:HD23	1.95	0.49
37:YB:140:LEU:O	37:YB:144:VAL:N	2.40	0.49
37:YJ:105:SER:HB3	37:YJ:108:ASN:HB2	1.94	0.49
37:YM:26:ILE:O	37:YM:29:LEU:N	2.46	0.49
37:YN:26:ILE:HD13	37:YN:29:LEU:HD12	1.95	0.49
37:YO:154:HIS:HA	37:YO:157:LYS:HE2	1.95	0.49
37:YS:63:ARG:O	37:YS:67:ILE:HG12	2.12	0.49
37:YT:87:HIS:HA	37:YT:166:GLY:HA3	1.95	0.49
37:YV:9:ARG:HA	37:YV:12:GLU:HG3	1.94	0.49
37:YV:26:ILE:O	37:YV:30:GLU:N	2.40	0.49
37:YV:64:ARG:HD2	37:YV:68:MET:HE1	1.94	0.49
38:a:39:LEU:HG	38:a:42:ARG:HH22	1.77	0.49
3:AB:252:LYS:NZ	4:AC:144:GLY:HA3	2.28	0.49
3:AB:295:ASP:HB2	3:AB:298:ASN:HB2	1.93	0.49
4:AC:102:ASN:ND2	4:AC:411:GLU:OE2	2.42	0.49
4:AG:263:PRO:HB2	4:AG:264:ARG:HH11	1.77	0.49
3:AH:114:ASP:N	3:AH:114:ASP:OD1	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AH:328:GLU:OE2	3:AH:329:GLN:NE2	2.44	0.49
4:AI:113:GLU:OE1	4:AI:113:GLU:N	2.43	0.49
4:AI:320:ARG:HG2	4:AI:358:GLN:O	2.13	0.49
3:AL:240:LEU:HD13	3:AL:248:ALA:HB1	1.94	0.49
4:AM:283:HIS:CE1	4:MM:88:HIS:HA	2.48	0.49
5:B1:120:ARG:HH21	5:B1:386:LEU:HB3	1.78	0.49
5:B3:34:ALA:O	5:B3:38:ILE:HG12	2.12	0.49
5:B3:130:ARG:NH1	5:B4:11:ARG:HG2	2.27	0.49
5:B6:258:ARG:O	5:B6:262:GLU:HG2	2.13	0.49
5:B7:120:ARG:NE	5:B7:120:ARG:HA	2.27	0.49
5:B8:268:ARG:HD3	5:B8:271:GLU:OE2	2.13	0.49
5:B9:365:ALA:HA	5:B9:368:LYS:HG2	1.95	0.49
3:BB:16:ILE:HD13	3:BB:226:ASN:ND2	2.28	0.49
3:BB:272:PRO:HA	3:BB:292:GLN:OE1	2.12	0.49
4:BC:21:TRP:HD1	4:BC:67:PHE:HZ	1.61	0.49
3:BD:112:LEU:HD22	14:G4:310:LEU:HD21	1.93	0.49
4:BE:79:ARG:C	15:H2:20:TYR:HH	2.21	0.49
3:BH:328:GLU:OE1	3:BH:332:ASN:ND2	2.46	0.49
4:BK:89:PRO:HB2	4:BK:90:GLU:OE1	2.12	0.49
4:BK:269:LEU:N	4:BK:379:SER:O	2.34	0.49
6:C:197:PRO:O	6:C:212:ARG:HD2	2.12	0.49
6:C:264:LYS:HE3	6:C:374:HIS:HB2	1.93	0.49
6:C:381:ASP:HB2	6:C:384:LEU:HB3	1.94	0.49
7:C2:406:ARG:HB2	7:C2:411:LEU:HD23	1.95	0.49
7:C3:236:HIS:CE1	7:C3:328:LEU:HD22	2.48	0.49
7:C3:393:LEU:HD12	7:C3:431:ILE:HD11	1.95	0.49
7:C8:354:THR:O	7:C8:358:LYS:HG3	2.13	0.49
7:C9:183:ARG:HA	7:C9:186:ILE:HG12	1.95	0.49
4:CC:345:ASP:N	4:CC:345:ASP:OD1	2.45	0.49
4:CE:243:ARG:CZ	4:CE:244:PHE:HE1	2.26	0.49
3:CF:266:PHE:HD1	3:CF:370:ASN:HB2	1.77	0.49
3:CH:269:GLY:O	3:CH:367:PHE:N	2.36	0.49
4:CI:67:PHE:N	4:CI:91:GLN:O	2.44	0.49
3:CJ:72:THR:O	3:CJ:75:SER:OG	2.24	0.49
3:CJ:295:ASP:HB2	3:CJ:298:ASN:HB2	1.95	0.49
4:CK:109:THR:OG1	4:CK:110:ILE:HD12	2.13	0.49
4:CK:192:HIS:CE1	4:CK:193:THR:HG23	2.48	0.49
4:CM:263:PRO:O	4:CM:265:ILE:N	2.46	0.49
7:Ca:180:ARG:HD2	7:Ca:183:ARG:HE	1.78	0.49
7:Cc:380:GLU:HA	7:Cc:383:LYS:HE2	1.95	0.49
6:D:98:GLY:HA3	6:D:102:THR:HG21	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:205:THR:HA	11:Fi:164:LEU:HD13	1.95	0.49
8:D5:389:ARG:O	8:D5:392:LYS:HG2	2.12	0.49
8:D5:403:ARG:O	8:D5:406:GLU:HG3	2.12	0.49
8:D9:191:LYS:O	8:D9:194:ILE:HG22	2.13	0.49
4:DA:287:SER:N	4:DA:290:GLU:OE2	2.45	0.49
3:DB:84:ILE:C	3:DB:86:ARG:HH22	2.21	0.49
3:DB:209:ASP:O	3:DB:213:ARG:HG3	2.13	0.49
4:DC:279:GLU:O	4:DC:283:HIS:HD2	1.96	0.49
3:DF:156:ARG:NH1	3:DF:195:ASN:O	2.46	0.49
3:DF:172:SER:OG	3:DF:205:GLU:OE2	2.17	0.49
4:DG:102:ASN:HB3	4:DG:105:ARG:HB2	1.94	0.49
3:DH:324:LYS:HD2	4:DI:221:ARG:HA	1.95	0.49
4:DI:34:GLY:HA2	4:DI:86:LEU:HD11	1.94	0.49
3:DJ:172:SER:OG	3:DJ:205:GLU:OE2	2.22	0.49
4:DK:386:GLU:OE1	4:DK:390:ARG:NH2	2.45	0.49
4:EA:208:ALA:H	4:EA:304:LYS:NZ	2.10	0.49
3:EB:3:GLU:HB2	3:EB:62:ARG:NH2	2.28	0.49
3:EB:350:LYS:HE3	4:EC:181:VAL:H	1.77	0.49
3:EB:372:THR:HG21	3:EB:426:GLN:HB2	1.95	0.49
3:EF:188:SER:O	3:EF:192:LEU:HG	2.12	0.49
3:EH:81:PHE:O	3:EH:84:ILE:HG22	2.12	0.49
4:EK:6:SER:HA	4:EK:136:LEU:HB2	1.94	0.49
3:EL:102:ALA:O	3:EL:106:TYR:N	2.38	0.49
11:F1:213:LYS:HA	11:F1:216:ILE:HD12	1.94	0.49
11:F2:181:ALA:HB2	11:F2:229:MET:HE2	1.93	0.49
11:F5:115:ARG:NH1	11:F5:119:ASP:HB2	2.27	0.49
11:F5:145:ARG:HH21	11:F6:412:PRO:HD2	1.78	0.49
11:F9:427:LEU:O	11:F9:431:LYS:HG2	2.12	0.49
4:FA:75:VAL:HG22	4:FA:79:ARG:HH21	1.78	0.49
3:FB:11:GLN:HE21	39:FB:501:GTP:H3'	1.76	0.49
3:FB:176:SER:O	3:FB:178:THR:N	2.46	0.49
3:FB:234:SER:O	3:FB:238:THR:HG23	2.13	0.49
3:FD:19:LYS:NZ	3:FD:223:GLY:O	2.45	0.49
3:FF:207:LEU:HB3	3:FF:225:LEU:HD12	1.94	0.49
4:FG:21:TRP:CE3	4:FG:24:TYR:HD2	2.31	0.49
3:FH:54:ALA:HB3	3:FH:58:LYS:HB2	1.95	0.49
4:FI:12:ALA:HB1	39:FI:501:GTP:C2	2.48	0.49
4:FI:67:PHE:O	4:FI:93:ILE:N	2.46	0.49
4:FI:216:ASN:ND2	4:FI:275:VAL:O	2.46	0.49
4:FK:346:TRP:HB3	3:FL:391:ARG:NE	2.28	0.49
11:Fe:304:ILE:O	11:Fe:308:GLN:HG3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Fi:213:LYS:O	11:Fi:217:ARG:HG2	2.13	0.49
11:Fj:440:THR:HA	11:Fj:443:LEU:HD12	1.94	0.49
11:Fl:149:LEU:O	11:Fl:153:LYS:HG3	2.12	0.49
11:Fl:385:LYS:HD3	11:Fl:427:LEU:HD22	1.94	0.49
11:Fl:386:GLU:HG2	11:Fl:387:TYR:N	2.28	0.49
11:Fl:386:GLU:HA	11:Fl:389:LEU:HG	1.95	0.49
11:Fm:468:LYS:O	11:Fm:472:MET:HG3	2.13	0.49
12:G:285:ARG:O	12:G:289:LYS:HG2	2.13	0.49
13:G1:153:ARG:HB3	13:G1:162:HIS:ND1	2.27	0.49
13:G2:102:TYR:HD2	13:G2:117:ILE:HD11	1.78	0.49
13:G2:141:SER:HA	13:G2:216:ARG:HH12	1.78	0.49
14:G4:416:LYS:HZ3	14:G4:420:LYS:HB3	1.77	0.49
14:G4:639:ILE:O	14:G4:643:VAL:N	2.38	0.49
14:G5:202:GLU:HA	14:G5:205:GLU:HB2	1.94	0.49
14:G5:393:TYR:N	14:G5:495:LYS:O	2.36	0.49
14:G5:492:GLU:H	14:G5:495:LYS:HE3	1.78	0.49
14:G6:580:ASN:OD1	14:G6:581:THR:N	2.43	0.49
14:G6:630:ASN:C	14:G6:632:PHE:H	2.20	0.49
3:GF:139:LEU:N	3:GF:168:SER:OG	2.45	0.49
3:GF:272:PRO:HA	3:GF:292:GLN:OE1	2.12	0.49
3:GF:375:GLN:HA	3:GF:378:PHE:CZ	2.47	0.49
4:GG:89:PRO:HD2	4:HG:280:LYS:NZ	2.27	0.49
4:GG:113:GLU:OE1	4:GG:113:GLU:N	2.42	0.49
3:GH:374:ILE:HG23	3:GH:377:LEU:HD12	1.94	0.49
3:GL:228:LEU:O	3:GL:232:THR:HG23	2.13	0.49
15:H6:42:LEU:O	15:H6:45:ASP:N	2.43	0.49
4:HA:20:CYS:O	4:HA:24:TYR:N	2.44	0.49
4:HA:220:GLU:HG2	4:HA:221:ARG:HG2	1.94	0.49
4:HA:247:ALA:HB3	4:HA:355:ILE:HG21	1.95	0.49
3:HD:395:LEU:HG	3:HD:403:MET:HE1	1.93	0.49
4:HE:172:TYR:HD1	4:HE:203:MET:HG2	1.78	0.49
4:HE:272:TYR:HE1	4:HE:374:ALA:HB1	1.77	0.49
3:HH:3:GLU:OE2	3:HH:127:CYS:HB2	2.12	0.49
3:HH:32:PRO:O	3:HH:83:GLN:NE2	2.35	0.49
4:HK:88:HIS:HB3	4:HK:91:GLN:HB2	1.93	0.49
4:IA:51:THR:HG23	4:IA:52:PHE:HD2	1.78	0.49
4:IA:216:ASN:ND2	4:IA:275:VAL:O	2.45	0.49
3:IB:20:PHE:CZ	3:IB:24:ILE:HD11	2.47	0.49
3:IH:47:ILE:HG12	3:IH:59:TYR:CD2	2.48	0.49
4:II:225:THR:O	4:II:229:ARG:HG3	2.13	0.49
19:J2:180:GLU:HA	19:J2:183:ALA:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:JA:60:LYS:HE3	4:JA:86:LEU:HA	1.93	0.49
3:JB:111:GLU:OE1	3:JB:111:GLU:N	2.42	0.49
4:JC:6:SER:HA	4:JC:136:LEU:HB2	1.95	0.49
3:JF:5:VAL:HG23	3:JF:130:LEU:HD21	1.95	0.49
3:JH:318:ARG:HD3	3:JH:358:PRO:HG3	1.95	0.49
3:JJ:39:ASP:OD1	3:JJ:39:ASP:N	2.43	0.49
4:JK:182:VAL:HA	4:JK:185:TYR:HD2	1.77	0.49
3:JL:309:ARG:O	3:JL:371:SER:OG	2.24	0.49
21:K1:375:ARG:HE	21:K1:423:THR:HG22	1.77	0.49
21:K3:222:ASP:HA	21:K3:225:LYS:HE3	1.93	0.49
4:KA:6:SER:HA	4:KA:136:LEU:HB3	1.94	0.49
4:KA:333:ALA:HA	4:KA:336:LYS:HD2	1.95	0.49
3:KB:305:PRO:HA	3:KB:373:ALA:HB2	1.94	0.49
3:KB:332:ASN:O	3:KB:336:LYS:N	2.46	0.49
3:KD:11:GLN:HG3	39:KD:501:GTP:PA	2.52	0.49
4:KE:161:TYR:HB3	4:KE:164:LYS:NZ	2.28	0.49
4:KE:264:ARG:O	4:KE:266:HIS:ND1	2.46	0.49
3:KF:261:PRO:HD3	4:KG:406:HIS:CG	2.46	0.49
3:KJ:272:PRO:HA	3:KJ:292:GLN:OE1	2.13	0.49
3:KL:143:THR:HG22	39:KL:501:GTP:O1B	2.13	0.49
3:KL:217:LEU:HD21	3:KL:220:PRO:HB3	1.94	0.49
3:KL:269:GLY:HA2	3:KL:300:MET:HE1	1.95	0.49
22:L1:89:PRO:HB2	22:L1:91:ARG:H	1.78	0.49
22:L3:233:GLU:O	22:L3:237:LEU:HG	2.13	0.49
22:L4:30:LEU:HD12	22:L4:31:PHE:N	2.27	0.49
3:LB:31:ASP:OD2	3:LB:33:THR:OG1	2.31	0.49
3:LB:66:VAL:HA	3:LB:91:VAL:O	2.13	0.49
3:LB:78:SER:HB2	32:S:410:ASP:N	2.27	0.49
4:LC:295:CYS:HB2	4:LC:377:MET:HE3	1.95	0.49
3:LF:139:LEU:HD21	3:LF:170:VAL:HG22	1.94	0.49
3:LF:327:ASP:O	3:LF:331:LEU:HD23	2.12	0.49
4:LG:132:LEU:HD11	28:O2:22:TRP:CZ2	2.48	0.49
3:LH:3:GLU:OE2	3:LH:127:CYS:HB2	2.13	0.49
3:LH:4:ILE:HD11	3:LH:131:GLN:HB2	1.94	0.49
3:LH:304:ASP:O	3:LH:307:HIS:ND1	2.44	0.49
3:MB:223:GLY:O	3:MB:227:HIS:N	2.41	0.49
3:MB:238:THR:HB	3:MB:242:PHE:CD2	2.48	0.49
4:ME:50:ASN:OD1	4:ME:51:THR:N	2.46	0.49
4:MG:430:LYS:O	28:O2:46:ARG:NH2	2.46	0.49
3:MH:32:PRO:C	3:MH:83:GLN:HE21	2.21	0.49
3:MH:52:ASN:CG	3:MH:62:ARG:HD3	2.38	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MI:287:SER:N	4:MI:290:GLU:OE2	2.45	0.49
3:MJ:385:PHE:HZ	3:MJ:408:PHE:HB3	1.76	0.49
3:ML:289:LEU:HD21	3:ML:363:MET:HB3	1.95	0.49
26:N1:68:LYS:HZ2	26:N1:70:ASP:HB3	1.77	0.49
3:NB:379:LYS:O	3:NB:382:SER:OG	2.19	0.49
4:NC:30:ILE:HG13	4:NC:53:PHE:HE2	1.77	0.49
4:NC:208:ALA:N	4:NC:304:LYS:HZ1	2.10	0.49
4:NC:235:VAL:HA	4:NC:238:ILE:HG12	1.95	0.49
4:NG:30:ILE:HG13	4:NG:53:PHE:CE2	2.45	0.49
3:NJ:11:GLN:HG3	39:NJ:501:GTP:PA	2.52	0.49
3:NJ:70:PRO:HA	3:NJ:73:MET:HE3	1.94	0.49
3:NL:16:ILE:HD13	3:NL:226:ASN:ND2	2.24	0.49
28:O3:94:LYS:HA	28:O3:97:HIS:CE1	2.48	0.49
3:OB:253:LEU:O	3:OB:257:MET:HG2	2.12	0.49
3:OB:322:SER:OG	3:OB:323:MET:SD	2.70	0.49
3:OD:385:PHE:HA	3:OD:388:MET:HE2	1.94	0.49
3:OF:215:LEU:HD11	3:OF:228:LEU:HD11	1.94	0.49
3:OH:77:ARG:HA	3:OH:82:GLY:HA3	1.93	0.49
4:OI:103:TYR:HB2	4:OI:186:ASN:HB2	1.95	0.49
3:OJ:36:TYR:O	37:YS:64:ARG:NH2	2.29	0.49
27:P:55:GLU:HA	27:P:58:ASP:HB2	1.94	0.49
29:P1:427:SER:OG	29:P1:473:ASN:ND2	2.35	0.49
29:P1:570:LYS:HG2	29:P1:582:VAL:HG22	1.95	0.49
29:P2:48:LEU:HB3	29:P2:50:GLN:NE2	2.27	0.49
3:PD:268:PRO:HD2	3:PD:301:ALA:HB2	1.95	0.49
4:PE:154:MET:HA	4:PE:157:LEU:HG	1.94	0.49
3:PF:144:GLY:HA2	3:PF:147:MET:HE3	1.94	0.49
4:PG:143:GLY:HA3	4:PG:147:SER:H	1.77	0.49
4:PG:343:PHE:HD2	4:PG:347:CYS:SG	2.36	0.49
4:PI:8:HIS:HE1	4:PI:138:PHE:CD2	2.30	0.49
4:PI:187:SER:O	4:PI:190:THR:OG1	2.27	0.49
4:PI:256:GLN:O	4:PI:260:VAL:HG12	2.13	0.49
4:PK:273:ALA:N	4:PK:377:MET:HE1	2.28	0.49
27:Q:73:ASP:N	27:Q:73:ASP:OD1	2.45	0.49
30:Q1:1508:ASN:HA	30:Q1:1511:LEU:HB2	1.94	0.49
4:QC:99:ALA:HB3	4:QC:144:GLY:O	2.12	0.49
4:QC:245:ASP:O	4:QC:356:ASN:ND2	2.46	0.49
3:QD:378:PHE:HB2	3:QD:415:MET:SD	2.53	0.49
4:QE:187:SER:O	4:QE:190:THR:OG1	2.25	0.49
3:QF:344:TRP:CZ3	4:QG:401:LYS:HB2	2.48	0.49
4:QG:392:ASP:OD1	4:QG:393:HIS:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QJ:4:ILE:HB	3:QJ:50:TYR:CE1	2.47	0.49
3:QJ:289:LEU:O	3:QJ:293:MET:HG2	2.12	0.49
4:QK:84:ARG:HH22	37:YQ:126:SER:HA	1.78	0.49
4:QK:214:ARG:NH1	4:QK:215:ARG:HG3	2.27	0.49
3:QL:379:LYS:O	3:QL:382:SER:OG	2.20	0.49
27:R:344:ASN:OD1	27:R:347:ARG:NH2	2.45	0.49
31:R2:251:PHE:O	31:R2:257:ARG:NH2	2.46	0.49
3:RB:117:LEU:HB3	3:RB:121:ARG:NH2	2.28	0.49
3:RD:70:PRO:HA	3:RD:73:MET:HE3	1.95	0.49
3:RD:217:LEU:HD11	3:RD:220:PRO:HB3	1.94	0.49
3:RD:323:MET:SD	3:RD:323:MET:N	2.79	0.49
3:RF:372:THR:HB	3:RF:375:GLN:HE22	1.78	0.49
3:RH:6:HIS:HD2	3:RH:134:GLN:HG2	1.77	0.49
3:RH:178:THR:HB	3:RH:181:GLU:HB2	1.94	0.49
4:RI:70:LEU:HA	4:RI:95:GLY:HA3	1.95	0.49
4:RI:160:ASP:OD1	4:RI:161:TYR:N	2.46	0.49
3:RL:2:ARG:HA	3:RL:129:CYS:O	2.13	0.49
4:RM:208:ALA:H	4:RM:304:LYS:HZ1	1.59	0.49
32:S:385:LYS:HE2	32:S:387:HIS:HE1	1.77	0.49
32:S:427:PRO:O	32:S:431:SER:N	2.46	0.49
32:S:430:LEU:HD23	32:S:430:LEU:O	2.12	0.49
3:SB:401:GLU:HB3	3:SB:403:MET:HE1	1.95	0.49
4:SC:216:ASN:ND2	4:SC:275:VAL:O	2.45	0.49
4:SC:336:LYS:HD3	3:SD:175:VAL:HG11	1.93	0.49
4:SE:20:CYS:O	4:SE:24:TYR:N	2.40	0.49
4:SE:105:ARG:O	4:SE:109:THR:OG1	2.26	0.49
4:SE:392:ASP:OD1	4:SE:393:HIS:N	2.46	0.49
4:SG:76:ASP:OD1	4:SG:79:ARG:NH1	2.46	0.49
4:SI:417:GLU:HA	4:SI:420:GLU:HG2	1.94	0.49
4:SI:423:GLU:HA	4:SI:426:ALA:HB3	1.94	0.49
3:SJ:3:GLU:OE2	3:SJ:127:CYS:HB2	2.13	0.49
3:SJ:292:GLN:O	3:SJ:298:ASN:ND2	2.34	0.49
4:SK:271:THR:HB	4:SK:377:MET:HE3	1.95	0.49
3:TD:97:ALA:O	3:TD:103:LYS:HE2	2.12	0.49
4:TE:12:ALA:HB1	39:TE:501:GTP:C2	2.48	0.49
4:TG:22:GLU:O	4:TG:26:LEU:HD23	2.12	0.49
3:TJ:187:LEU:HD11	3:TJ:408:PHE:HE1	1.76	0.49
3:TJ:415:MET:O	3:TJ:419:VAL:HG23	2.12	0.49
4:TK:203:MET:HE3	4:TK:267:PHE:CG	2.48	0.49
4:TM:260:VAL:HG23	4:TM:265:ILE:O	2.13	0.49
33:U:485:ASN:ND2	4:UA:370:LYS:HD3	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UA:141:PHE:HE2	4:UA:203:MET:HG3	1.78	0.49
3:UD:323:MET:SD	3:UD:323:MET:N	2.86	0.49
3:UD:330:MET:HA	3:UD:333:VAL:HG12	1.94	0.49
4:UE:89:PRO:HD2	4:VE:280:LYS:NZ	2.27	0.49
3:UJ:234:SER:O	3:UJ:238:THR:HG23	2.12	0.49
4:UK:47:ASP:HB3	4:UK:49:PHE:CE2	2.48	0.49
4:UK:88:HIS:CE1	4:VK:280:LYS:HZ3	2.31	0.49
4:VE:139:HIS:CD2	4:VE:170:ALA:HB2	2.48	0.49
3:VF:309:ARG:H	3:VF:372:THR:HG1	1.59	0.49
4:VG:224:TYR:HE2	39:VG:501:GTP:O6	1.96	0.49
4:VK:216:ASN:OD1	4:VK:217:LEU:N	2.46	0.49
3:VL:398:TYR:HB3	3:VL:403:MET:HB2	1.94	0.49
33:W:82:ILE:HG13	33:W:87:VAL:HG13	1.94	0.49
33:W:194:MET:HE2	33:X:521:LYS:HD3	1.94	0.49
4:WA:319:TYR:N	4:WA:354:GLY:O	2.45	0.49
3:WB:178:THR:HB	3:WB:181:GLU:HB2	1.95	0.49
4:WC:9:VAL:HA	4:WC:68:VAL:HG23	1.95	0.49
4:WC:70:LEU:HD11	4:WC:149:PHE:HE2	1.78	0.49
4:WC:105:ARG:O	4:WC:109:THR:OG1	2.27	0.49
3:WD:128:ASP:OD1	34:XC:18:GLY:HA2	2.12	0.49
3:WF:12:CYS:HA	39:WF:501:GTP:N2	2.28	0.49
3:WF:12:CYS:SG	39:WF:501:GTP:H5'	2.53	0.49
3:WH:206:ALA:O	3:WH:210:ILE:HG12	2.12	0.49
4:WI:9:VAL:HA	4:WI:68:VAL:HG23	1.93	0.49
4:WI:185:TYR:CZ	4:WI:398:MET:HE1	2.47	0.49
3:WL:378:PHE:CD1	3:WL:419:VAL:HG22	2.47	0.49
33:X:386:GLN:NE2	33:X:390:ARG:HH21	2.11	0.49
34:XC:15:TYR:CD1	34:XC:164:ARG:HB2	2.48	0.49
34:XF:78:MET:HG2	34:XF:165:VAL:HG22	1.94	0.49
37:YB:63:ARG:O	37:YB:67:ILE:HG23	2.13	0.49
37:YD:90:THR:O	37:YD:94:ASN:N	2.37	0.49
37:YG:141:ILE:O	37:YG:144:VAL:N	2.45	0.49
37:YN:59:ASN:HB2	37:YN:62:HIS:CE1	2.48	0.49
37:YO:11:ILE:O	37:YO:14:LYS:HG2	2.13	0.49
37:YQ:18:PHE:O	37:YQ:22:GLN:N	2.46	0.49
37:YR:1:MET:N	37:YR:3:GLU:OE1	2.38	0.49
2:A1:66:ARG:O	2:A1:70:VAL:HG23	2.13	0.49
3:AB:39:ASP:OD1	3:AB:39:ASP:N	2.45	0.49
3:AB:99:ASN:OD1	3:AB:142:GLY:HA3	2.13	0.49
3:AB:376:GLU:HA	3:AB:379:LYS:HE3	1.94	0.49
4:AC:264:ARG:HH12	34:XB:116:PRO:HG2	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:7:LEU:HD13	3:AD:64:VAL:HB	1.95	0.49
3:AD:394:PHE:HA	3:AD:397:TRP:HZ3	1.78	0.49
4:AG:265:ILE:HA	4:AG:267:PHE:CE2	2.48	0.49
3:AH:31:ASP:OD2	3:AH:35:THR:OG1	2.29	0.49
4:AI:1:MET:N	4:AI:130:THR:OG1	2.42	0.49
4:AM:230:LEU:O	4:AM:234:ILE:HG12	2.13	0.49
5:B1:132:PRO:HA	5:B1:135:GLU:HG2	1.94	0.49
5:B3:187:ARG:NH1	10:E2:153:ARG:HH12	2.10	0.49
5:B7:56:ASP:OD1	5:B7:57:GLU:N	2.45	0.49
5:B7:64:LEU:HB3	5:B7:190:LEU:HD21	1.94	0.49
5:B8:140:GLU:HB2	5:B8:257:GLN:HG2	1.95	0.49
3:BB:423:GLN:O	3:BB:427:ASP:N	2.43	0.49
4:BC:72:PRO:HA	4:BC:75:VAL:HG12	1.95	0.49
4:BC:254:GLU:OE1	4:BC:254:GLU:N	2.44	0.49
3:BD:166:THR:OG1	3:BD:198:GLU:O	2.30	0.49
4:BE:20:CYS:O	4:BE:24:TYR:N	2.36	0.49
4:BE:213:CYS:O	4:BE:218:ASP:N	2.46	0.49
3:BF:176:SER:O	3:BF:178:THR:N	2.45	0.49
4:BG:319:TYR:HB2	4:BG:355:ILE:HD13	1.95	0.49
3:BH:176:SER:O	3:BH:178:THR:N	2.46	0.49
4:BI:226:ASN:OD1	4:BI:229:ARG:NH2	2.46	0.49
3:BJ:423:GLN:O	3:BJ:427:ASP:N	2.42	0.49
4:BK:272:TYR:CZ	4:BK:274:PRO:HG2	2.47	0.49
3:BL:130:LEU:HB2	3:BL:162:ARG:HH11	1.78	0.49
4:BM:79:ARG:HB3	15:H6:20:TYR:HE1	1.76	0.49
7:C2:433:THR:O	7:C2:437:ARG:HG2	2.13	0.49
7:C3:253:GLU:CG	11:Fl:241:ARG:HH22	2.24	0.49
7:C4:139:GLN:O	7:C4:143:THR:HG23	2.13	0.49
7:C6:274:LEU:HD23	7:C7:399:ARG:HG2	1.95	0.49
7:C7:139:GLN:O	7:C7:143:THR:HG23	2.13	0.49
7:C8:123:ASP:OD1	7:C9:437:ARG:NH2	2.43	0.49
4:CC:392:ASP:OD1	4:CC:393:HIS:N	2.46	0.49
3:CF:4:ILE:HD11	3:CF:131:GLN:HB2	1.95	0.49
3:CF:47:ILE:HG12	3:CF:59:TYR:CD2	2.48	0.49
3:CH:234:SER:O	3:CH:238:THR:HG23	2.13	0.49
4:CK:70:LEU:HA	4:CK:95:GLY:HA3	1.95	0.49
4:CK:84:ARG:HD3	4:CK:85:GLN:OE1	2.13	0.49
4:CK:320:ARG:CZ	4:CK:360:PRO:HA	2.42	0.49
4:CK:320:ARG:HG2	4:CK:358:GLN:O	2.12	0.49
3:CL:380:ARG:O	3:CL:384:GLN:HG2	2.13	0.49
7:Cb:399:ARG:HH22	7:Cc:143:THR:HA	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Cc:126:ARG:HD2	7:Cc:130:ASP:OD2	2.13	0.49
6:D:151:GLU:HG3	6:D:155:PHE:CZ	2.48	0.49
8:D3:107:LEU:HD21	8:D3:225:ASP:HB2	1.95	0.49
8:D7:166:ASP:N	8:D7:166:ASP:OD1	2.46	0.49
8:D9:337:ALA:O	8:D9:340:LYS:HG2	2.13	0.49
4:DC:53:PHE:HE1	4:DC:63:PRO:HG3	1.78	0.49
3:DF:285:THR:O	3:DF:288:GLU:HG3	2.12	0.49
4:DI:8:HIS:CD2	4:DI:17:GLY:HA3	2.48	0.49
3:DJ:247:ASN:CB	3:DJ:252:LYS:HG2	2.42	0.49
10:E1:105:LEU:HD23	10:E1:110:THR:HG22	1.95	0.49
10:E1:126:GLN:HB2	10:E1:133:ARG:NE	2.28	0.49
10:E2:111:GLN:NE2	10:E2:118:PHE:HB3	2.28	0.49
4:EA:221:ARG:HB2	15:H1:296:TYR:HB2	1.95	0.49
3:EF:318:ARG:HD3	3:EF:358:PRO:HG3	1.95	0.49
4:EG:423:GLU:HA	4:EG:426:ALA:HB3	1.94	0.49
4:EI:185:TYR:OH	4:EI:403:ALA:O	2.22	0.49
4:EK:207:GLU:HB2	4:EK:304:LYS:NZ	2.27	0.49
3:EL:11:GLN:O	3:EL:14:ASN:HB2	2.12	0.49
3:EL:33:THR:HG22	13:G3:501:HIS:CE1	2.48	0.49
3:EL:226:ASN:HA	3:EL:229:VAL:HG12	1.95	0.49
11:F2:440:THR:HG21	11:F3:116:LEU:HD11	1.95	0.49
11:F5:252:ARG:O	11:F5:255:GLU:HG2	2.12	0.49
11:F6:296:TRP:HA	11:F6:299:PHE:CD2	2.48	0.49
11:F6:429:THR:HA	11:F6:432:LEU:HD12	1.94	0.49
3:FB:172:SER:HB3	3:FB:175:VAL:O	2.12	0.49
3:FD:412:GLU:HA	3:FD:415:MET:HE2	1.95	0.49
4:FE:67:PHE:O	4:FE:93:ILE:N	2.44	0.49
4:FE:364:PRO:HA	14:G5:706:ASP:OD2	2.13	0.49
3:FH:211:CYS:O	3:FH:216:LYS:N	2.45	0.49
4:FI:2:ARG:NH1	4:FI:241:SER:O	2.46	0.49
3:FJ:12:CYS:HB3	39:FJ:501:GTP:C5'	2.43	0.49
3:FL:8:GLN:OE1	3:FL:8:GLN:N	2.45	0.49
11:Fc:278:SER:OG	11:Fc:279:PHE:N	2.46	0.49
11:Fc:325:PHE:O	11:Fc:328:LEU:HG	2.12	0.49
11:Fg:463:CYS:SG	11:Fi:376:MET:HG2	2.53	0.49
11:Fj:247:GLN:O	11:Fj:248:HIS:C	2.56	0.49
11:Fm:231:LYS:O	11:Fm:235:ARG:HG2	2.13	0.49
12:G:383:ARG:O	12:G:387:LYS:N	2.41	0.49
13:G2:139:GLU:OE1	13:G2:140:ASN:ND2	2.46	0.49
13:G3:234:GLN:NE2	13:G3:268:LEU:O	2.44	0.49
14:G4:231:ARG:NH2	14:G4:357:ASP:OD2	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G4:328:VAL:HG13	14:G4:330:GLN:NE2	2.27	0.49
14:G4:440:LEU:HD23	14:G4:452:PHE:HZ	1.77	0.49
14:G4:581:THR:O	14:G4:585:ILE:HG12	2.13	0.49
14:G6:627:PHE:O	14:G6:633:GLU:HG2	2.13	0.49
14:G6:740:ILE:HD13	14:G6:744:GLY:HA3	1.95	0.49
4:GA:11:GLN:O	4:GA:14:VAL:HG22	2.13	0.49
4:GC:67:PHE:HB2	4:GC:92:LEU:HD13	1.95	0.49
4:GC:208:ALA:N	4:GC:304:LYS:HZ1	2.04	0.49
4:GC:324:VAL:HB	4:GC:326:LYS:HE2	1.95	0.49
3:GD:421:GLU:HG2	3:GD:425:TYR:HE2	1.77	0.49
3:GF:313:VAL:HG23	3:GF:349:VAL:HA	1.95	0.49
3:GF:419:VAL:O	3:GF:423:GLN:NE2	2.46	0.49
4:GG:88:HIS:CE1	4:GG:121:ARG:HH22	2.31	0.49
3:GH:172:SER:HB3	3:GH:175:VAL:O	2.13	0.49
4:GI:70:LEU:HB3	4:GI:97:GLU:O	2.13	0.49
3:GJ:114:ASP:OD1	3:GJ:115:SER:N	2.46	0.49
3:GL:87:PRO:HA	3:GL:90:PHE:CD2	2.48	0.49
3:GL:331:LEU:O	3:GL:334:GLN:NE2	2.46	0.49
3:GL:398:TYR:HB3	3:GL:403:MET:HB3	1.95	0.49
15:H6:302:ASN:O	15:H6:305:ARG:N	2.46	0.49
4:HA:255:PHE:HE1	4:HA:316:CYS:HG	1.58	0.49
4:HA:320:ARG:N	4:HA:374:ALA:O	2.44	0.49
3:HB:1:MET:HE1	3:HB:49:VAL:HA	1.95	0.49
3:HB:189:VAL:HA	3:HB:192:LEU:HB2	1.95	0.49
4:HC:47:ASP:HB3	4:HC:49:PHE:CE2	2.48	0.49
3:HD:103:LYS:O	3:HD:108:GLU:N	2.31	0.49
3:HF:51:TYR:CD1	3:HF:61:PRO:HA	2.47	0.49
4:HG:28:HIS:HB2	4:HG:30:ILE:HG12	1.94	0.49
4:HI:3:GLU:OE2	4:HI:130:THR:N	2.36	0.49
4:HK:155:GLU:O	4:HK:158:SER:OG	2.27	0.49
3:HL:173:PRO:O	3:HL:380:ARG:NH2	2.46	0.49
4:IA:11:GLN:N	39:IA:501:GTP:O1B	2.45	0.49
4:IA:53:PHE:O	4:IA:64:ARG:NH1	2.45	0.49
3:IB:114:ASP:OD1	3:IB:115:SER:N	2.45	0.49
3:IB:415:MET:O	3:IB:419:VAL:HG23	2.13	0.49
4:IC:21:TRP:CD1	4:IC:53:PHE:HE1	2.29	0.49
3:ID:6:HIS:HB2	3:ID:134:GLN:NE2	2.28	0.49
3:ID:8:GLN:NE2	3:ID:13:GLY:C	2.71	0.49
3:ID:240:LEU:HD22	3:ID:248:ALA:HB1	1.95	0.49
4:IE:273:ALA:HB2	4:IE:295:CYS:HB3	1.94	0.49
4:IG:140:SER:HA	4:IG:170:ALA:HB1	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:IG:208:ALA:H	4:IG:304:LYS:NZ	2.11	0.49
4:IG:235:VAL:HA	4:IG:238:ILE:HG12	1.93	0.49
3:IH:52:ASN:CG	3:IH:62:ARG:HD3	2.38	0.49
4:II:149:PHE:CE2	4:II:153:LEU:HD11	2.46	0.49
4:II:184:PRO:HB2	4:II:395:PHE:CE1	2.48	0.49
3:IL:70:PRO:HA	3:IL:73:MET:HE3	1.95	0.49
4:IM:160:ASP:OD1	4:IM:161:TYR:N	2.46	0.49
3:JB:176:SER:O	3:JB:178:THR:N	2.46	0.49
3:JB:217:LEU:HD11	3:JB:220:PRO:HB3	1.95	0.49
3:JB:317:PHE:HB3	3:JB:321:MET:HE3	1.95	0.49
3:JD:249:ASP:O	3:JD:253:LEU:HG	2.11	0.49
3:JD:385:PHE:HZ	3:JD:408:PHE:HB3	1.78	0.49
4:JE:139:HIS:CD2	4:JE:170:ALA:HB2	2.48	0.49
4:JE:185:TYR:CZ	4:JE:398:MET:HE1	2.48	0.49
4:JE:425:LEU:O	4:JE:428:LEU:N	2.46	0.49
3:JF:28:HIS:ND1	3:JF:43:GLN:HB2	2.28	0.49
3:JF:218:THR:OG1	3:JF:219:THR:N	2.44	0.49
4:JI:333:ALA:HA	4:JI:336:LYS:HD2	1.93	0.49
4:JK:186:ASN:OD1	4:JK:187:SER:N	2.46	0.49
4:JK:205:ASP:OD2	4:JK:304:LYS:NZ	2.40	0.49
21:K1:377:ILE:O	21:K2:115:ARG:NE	2.46	0.49
21:K1:441:ASP:OD1	21:K1:442:ASN:N	2.46	0.49
21:K2:198:LEU:HD22	21:K2:332:VAL:HG22	1.94	0.49
21:K4:131:ARG:HA	21:K4:134:ARG:NE	2.28	0.49
4:KA:20:CYS:O	4:KA:24:TYR:N	2.42	0.49
4:KC:11:GLN:O	4:KC:14:VAL:HG22	2.12	0.49
4:KC:213:CYS:O	4:KC:218:ASP:N	2.45	0.49
4:KE:107:HIS:CD2	4:KE:152:LEU:HB2	2.48	0.49
4:KE:271:THR:HB	4:KE:377:MET:HE3	1.95	0.49
22:L4:61:ASP:OD2	22:L4:64:LYS:NZ	2.46	0.49
22:L4:91:ARG:HD2	22:L4:91:ARG:O	2.13	0.49
4:LC:220:GLU:O	4:LC:221:ARG:NE	2.41	0.49
3:LD:350:LYS:HE3	4:LE:181:VAL:N	2.28	0.49
4:LE:70:LEU:HG	4:LE:149:PHE:CZ	2.48	0.49
3:LF:114:ASP:N	3:LF:114:ASP:OD1	2.45	0.49
3:LF:227:HIS:CE1	27:R:371:GLN:HG3	2.48	0.49
4:LI:319:TYR:HE2	4:LI:328:VAL:HG13	1.78	0.49
3:LJ:156:ARG:NH1	3:LJ:195:ASN:O	2.46	0.49
4:LK:346:TRP:CH2	3:LL:391:ARG:HB2	2.48	0.49
24:M1:95:ARG:NH2	24:M1:98:HIS:O	2.42	0.49
3:MD:3:GLU:OE2	3:MD:127:CYS:HB2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MD:384:GLN:O	3:MD:388:MET:N	2.39	0.49
4:ME:317:MET:O	4:ME:354:GLY:N	2.45	0.49
4:MI:154:MET:HE3	4:MI:194:THR:HG22	1.95	0.49
4:MI:186:ASN:OD1	4:MI:187:SER:N	2.46	0.49
3:MJ:255:VAL:HA	4:MK:407:TRP:CZ3	2.47	0.49
3:ML:172:SER:OG	3:ML:205:GLU:OE2	2.30	0.49
3:ML:268:PRO:HD2	3:ML:301:ALA:HB2	1.93	0.49
3:ML:390:ARG:NH1	28:O3:42:ILE:HD11	2.28	0.49
4:MM:287:SER:OG	4:MM:290:GLU:OE1	2.28	0.49
4:NC:331:ALA:O	4:NC:334:THR:OG1	2.26	0.49
3:ND:2:ARG:HA	3:ND:129:CYS:O	2.12	0.49
4:NG:329:ASN:HA	4:NG:332:ILE:HG12	1.95	0.49
4:NI:160:ASP:OD1	4:NI:161:TYR:N	2.46	0.49
3:NJ:178:THR:HB	3:NJ:181:GLU:HB2	1.95	0.49
4:NK:408:TYR:HD2	4:NK:418:PHE:HZ	1.60	0.49
3:NL:5:VAL:HG23	3:NL:130:LEU:HD21	1.93	0.49
4:OA:139:HIS:CD2	4:OA:170:ALA:HB2	2.48	0.49
4:OA:295:CYS:HB2	4:OA:377:MET:HE3	1.95	0.49
4:OC:125:LEU:HD13	4:OC:128:LEU:HD21	1.93	0.49
4:OC:301:GLN:N	4:OC:301:GLN:OE1	2.46	0.49
4:OC:346:TRP:CZ2	3:OD:393:ALA:HB2	2.47	0.49
3:OD:27:GLU:OE1	3:OD:241:ARG:NH1	2.46	0.49
3:OH:166:THR:OG1	3:OH:198:GLU:O	2.22	0.49
3:OH:183:TYR:OH	3:OH:393:ALA:O	2.29	0.49
4:OI:216:ASN:HB2	4:OI:276:ILE:HD12	1.94	0.49
4:OI:260:VAL:HG23	4:OI:265:ILE:O	2.13	0.49
3:OL:81:PHE:O	3:OL:84:ILE:HG22	2.13	0.49
3:OL:394:PHE:HA	3:OL:397:TRP:HZ3	1.77	0.49
29:P1:230:LEU:HD13	29:P1:242:THR:HG22	1.94	0.49
29:P1:570:LYS:HB2	29:P1:572:TRP:CH2	2.47	0.49
29:P2:383:MET:SD	29:P2:383:MET:N	2.85	0.49
29:P2:430:LYS:HG3	29:P2:431:ARG:HG3	1.94	0.49
4:PA:42:ILE:HG12	4:PA:55:GLU:OE2	2.13	0.49
4:PA:271:THR:HB	4:PA:377:MET:HB2	1.94	0.49
3:PB:292:GLN:O	3:PB:298:ASN:ND2	2.41	0.49
4:PC:140:SER:HA	4:PC:170:ALA:HB1	1.95	0.49
3:PD:57:GLY:HA3	37:YG:60:SER:HB3	1.94	0.49
4:PE:26:LEU:HG	4:PE:363:VAL:HG23	1.95	0.49
3:PF:379:LYS:O	3:PF:382:SER:OG	2.21	0.49
3:PH:258:VAL:H	4:PI:407:TRP:HH2	1.61	0.49
4:PI:399:TYR:OH	4:PI:415:GLU:OE2	2.18	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:PK:50:ASN:OD1	4:PK:51:THR:N	2.46	0.49
4:PM:184:PRO:HB2	4:PM:395:PHE:HD1	1.78	0.49
4:PM:245:ASP:O	4:PM:356:ASN:ND2	2.46	0.49
30:Q2:1387:ASP:HB2	30:Q2:1392:GLY:HA2	1.94	0.49
4:QC:149:PHE:HA	4:QC:152:LEU:HG	1.95	0.49
4:QC:254:GLU:OE1	4:QC:254:GLU:N	2.43	0.49
3:QD:151:LEU:HD22	3:QD:154:LYS:HZ1	1.78	0.49
3:QD:309:ARG:N	3:QD:372:THR:HG1	2.09	0.49
4:QE:405:VAL:O	4:QE:409:VAL:HG22	2.13	0.49
3:QF:296:ALA:HA	3:QF:299:MET:HE3	1.93	0.49
3:QF:347:ASN:HB3	4:QG:178:SER:HB3	1.95	0.49
3:QH:11:GLN:HG3	39:QH:501:GTP:PA	2.53	0.49
3:QH:166:THR:OG1	3:QH:198:GLU:O	2.30	0.49
3:QJ:60:VAL:HG23	3:QJ:86:ARG:HH11	1.78	0.49
4:QM:60:LYS:HE3	4:QM:86:LEU:HD23	1.93	0.49
27:R:326:GLN:HG3	27:R:329:ARG:HH21	1.78	0.49
3:RB:12:CYS:HB3	39:RB:501:GTP:C5'	2.41	0.49
4:RC:102:ASN:HD22	4:RC:105:ARG:HG3	1.78	0.49
3:RD:131:GLN:HB3	3:RD:163:ILE:HD12	1.94	0.49
3:RH:176:SER:O	3:RH:178:THR:N	2.46	0.49
4:RI:180:ALA:HB3	4:RI:183:GLU:HG2	1.95	0.49
3:RJ:114:ASP:OD1	3:RJ:115:SER:N	2.45	0.49
3:RJ:141:GLY:HA3	39:RJ:501:GTP:H5"	1.95	0.49
3:RJ:328:GLU:O	3:RJ:332:ASN:N	2.40	0.49
4:RK:6:SER:HA	4:RK:136:LEU:HB2	1.93	0.49
4:RK:172:TYR:N	4:RK:204:VAL:O	2.37	0.49
4:RM:426:ALA:C	4:RM:430:LYS:HZ2	2.19	0.49
4:SC:22:GLU:O	4:SC:26:LEU:HD23	2.12	0.49
3:SD:51:TYR:CD1	3:SD:61:PRO:HA	2.48	0.49
4:SK:176:GLN:NE2	4:SK:207:GLU:OE2	2.45	0.49
4:SM:49:PHE:O	4:SM:53:PHE:N	2.43	0.49
3:TB:302:ALA:HB1	3:TB:377:LEU:HD11	1.94	0.49
3:TF:250:LEU:HD13	3:TF:253:LEU:HD12	1.95	0.49
3:TF:345:ILE:HD11	4:TG:181:VAL:HG11	1.95	0.49
4:TG:70:LEU:HA	4:TG:95:GLY:HA3	1.94	0.49
4:TG:319:TYR:HE2	4:TG:328:VAL:HG13	1.78	0.49
3:TH:279:GLN:HB2	36:Z:405:LYS:HZ2	1.77	0.49
4:TI:180:ALA:HB3	4:TI:183:GLU:HB2	1.93	0.49
3:TJ:54:ALA:HB3	3:TJ:58:LYS:HB3	1.94	0.49
3:TJ:406:MET:O	3:TJ:409:THR:OG1	2.25	0.49
3:TL:309:ARG:H	3:TL:372:THR:HG1	1.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:TM:285:GLN:HE22	4:TM:287:SER:HB3	1.78	0.49
33:U:443:ARG:O	33:U:447:GLU:HG2	2.13	0.49
3:UB:374:ILE:HA	3:UB:377:LEU:HD13	1.95	0.49
4:UC:168:GLU:HB2	4:UC:201:ALA:HA	1.95	0.49
4:UC:264:ARG:O	4:UC:266:HIS:ND1	2.41	0.49
3:UF:52:ASN:ND2	3:UF:62:ARG:HD3	2.28	0.49
3:UF:69:GLU:OE1	3:UF:69:GLU:N	2.45	0.49
3:UF:229:VAL:O	3:UF:232:THR:OG1	2.30	0.49
4:UG:208:ALA:H	4:UG:304:LYS:NZ	2.10	0.49
4:UI:116:ASP:N	4:UI:116:ASP:OD1	2.42	0.49
4:UI:208:ALA:N	4:UI:304:LYS:HZ1	2.08	0.49
4:UK:285:GLN:HE22	4:UK:287:SER:HB3	1.76	0.49
4:UK:405:VAL:O	4:UK:409:VAL:HG22	2.13	0.49
3:UL:3:GLU:OE2	3:UL:127:CYS:HB2	2.13	0.49
3:UL:15:GLN:HB2	3:UL:222:TYR:HE2	1.77	0.49
3:UL:166:THR:OG1	3:UL:198:GLU:O	2.26	0.49
3:UL:415:MET:O	3:UL:419:VAL:HG23	2.13	0.49
3:VB:387:ALA:O	3:VB:390:ARG:HG3	2.13	0.49
4:VC:115:VAL:HG23	4:VC:153:LEU:HD23	1.95	0.49
4:VE:22:GLU:O	4:VE:26:LEU:HD23	2.12	0.49
4:VE:88:HIS:HB3	4:VE:91:GLN:HB2	1.95	0.49
4:VE:311:LYS:NZ	4:VE:343:PHE:O	2.46	0.49
3:VF:328:GLU:O	3:VF:332:ASN:N	2.42	0.49
4:VG:113:GLU:OE1	4:VG:113:GLU:N	2.45	0.49
4:VI:90:GLU:HG2	4:VI:121:ARG:NH2	2.28	0.49
4:VI:332:ILE:HD11	4:VI:351:PHE:CG	2.48	0.49
3:VL:3:GLU:OE2	3:VL:127:CYS:HB2	2.12	0.49
3:WB:268:PRO:HD2	3:WB:301:ALA:HB2	1.94	0.49
4:WC:1:MET:HE3	4:WC:50:ASN:HD21	1.78	0.49
3:WF:46:ARG:HH12	4:WG:73:THR:HG23	1.78	0.49
3:WF:374:ILE:HA	3:WF:377:LEU:HD13	1.95	0.49
3:WH:7:LEU:HD13	3:WH:64:VAL:HB	1.95	0.49
3:WH:285:THR:O	3:WH:288:GLU:HG3	2.13	0.49
4:WK:4:CYS:HA	4:WK:132:LEU:HA	1.95	0.49
4:WK:115:VAL:HA	4:WK:118:VAL:HG22	1.95	0.49
3:WL:412:GLU:HA	3:WL:415:MET:HE2	1.93	0.49
34:XG:48:GLU:OE2	34:XG:161:ARG:NE	2.45	0.49
35:XI:171:LEU:HA	35:XI:174:TYR:CZ	2.48	0.49
35:XK:89:TYR:HE2	35:XK:122:GLY:HA3	1.78	0.49
37:YA:76:LEU:O	37:YA:80:CYS:N	2.45	0.49
37:YD:162:VAL:HA	37:YD:165:HIS:CE1	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:YE:99:LYS:HG3	37:YE:100:CYS:N	2.27	0.49
37:YL:108:ASN:HD21	37:YL:110:LEU:HD22	1.77	0.49
37:YN:141:ILE:O	37:YN:145:LEU:HG	2.13	0.49
37:YS:30:GLU:OE1	37:YS:33:ARG:NH2	2.45	0.49
2:A2:323:ARG:HB3	2:A2:327:GLU:CB	2.43	0.48
4:AC:333:ALA:HA	4:AC:336:LYS:HD2	1.95	0.48
3:AD:234:SER:O	3:AD:238:THR:HG23	2.13	0.48
4:AE:118:VAL:HA	4:AE:121:ARG:HG2	1.95	0.48
3:AF:247:ASN:OD1	4:AG:11:GLN:NE2	2.46	0.48
4:AI:47:ASP:HB3	4:AI:49:PHE:CE2	2.48	0.48
4:AI:286:LEU:HD11	4:AI:373:ARG:H	1.78	0.48
4:AI:329:ASN:HA	4:AI:332:ILE:HG12	1.94	0.48
4:AI:402:ARG:HE	35:XK:233:PRO:HB2	1.78	0.48
3:AL:330:MET:HG3	3:AL:349:VAL:HG11	1.95	0.48
4:AM:273:ALA:HB2	4:AM:295:CYS:HB3	1.93	0.48
5:B3:349:ILE:O	5:B3:353:LYS:HG2	2.13	0.48
5:B6:194:LEU:HB3	5:B7:313:LEU:HD22	1.95	0.48
5:B7:204:ASN:HB3	5:B7:207:ARG:HH21	1.77	0.48
3:BB:73:MET:O	3:BB:77:ARG:N	2.36	0.48
4:BC:171:ILE:HD12	4:BC:204:VAL:HG13	1.94	0.48
4:BC:256:GLN:O	4:BC:260:VAL:HG12	2.13	0.48
4:BC:423:GLU:HA	4:BC:426:ALA:HB3	1.95	0.48
4:BG:245:ASP:O	4:BG:356:ASN:ND2	2.46	0.48
3:BH:324:LYS:HD2	4:BI:221:ARG:HA	1.94	0.48
4:BI:77:GLU:O	4:BI:80:THR:OG1	2.28	0.48
4:BI:83:TYR:HB3	4:BI:86:LEU:HD12	1.95	0.48
4:BK:165:SER:C	4:BK:166:LYS:HD2	2.38	0.48
6:C:268:ILE:HG21	6:C:325:PRO:O	2.13	0.48
7:C1:144:GLN:NE2	7:C1:148:GLU:OE1	2.46	0.48
7:C2:365:LEU:HD13	7:C2:455:LEU:HD22	1.94	0.48
7:C3:321:LEU:O	7:C3:325:THR:HG23	2.13	0.48
7:C7:275:ARG:HD3	7:C7:276:ASN:O	2.13	0.48
7:C9:430:THR:O	7:C9:434:LEU:HG	2.13	0.48
4:CG:272:TYR:HE1	4:CG:374:ALA:HB1	1.78	0.48
3:CH:3:GLU:OE2	3:CH:127:CYS:HB2	2.13	0.48
3:CH:28:HIS:HB2	3:CH:30:ILE:HD12	1.95	0.48
3:CH:37:HIS:HB3	15:H4:255:ARG:CZ	2.43	0.48
4:CK:423:GLU:HA	4:CK:426:ALA:HB3	1.94	0.48
3:CL:23:VAL:O	3:CL:27:GLU:N	2.31	0.48
4:CM:49:PHE:O	4:CM:53:PHE:N	2.43	0.48
4:CM:82:THR:O	4:CM:84:ARG:NH1	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Ca:380:GLU:HB2	7:Ca:384:LYS:NZ	2.28	0.48
7:Cd:183:ARG:HA	7:Cd:186:ILE:HD12	1.95	0.48
7:Cd:289:ARG:CD	7:Cd:290:VAL:HG13	2.42	0.48
6:D:85:VAL:HG22	6:D:92:LEU:HB2	1.95	0.48
8:D2:101:ARG:NH2	13:G1:22:LYS:HZ1	2.11	0.48
8:D8:255:GLU:O	8:D8:259:LYS:HG2	2.13	0.48
8:D9:75:GLU:HA	8:D9:78:ARG:HE	1.77	0.48
4:DA:178:SER:OG	4:DA:180:ALA:O	2.31	0.48
4:DA:319:TYR:HB2	4:DA:355:ILE:HD13	1.94	0.48
3:DB:132:GLY:HA3	3:DB:163:ILE:H	1.78	0.48
3:DD:39:ASP:OD1	3:DD:43:GLN:NE2	2.45	0.48
3:DD:292:GLN:O	3:DD:298:ASN:ND2	2.41	0.48
4:DI:272:TYR:HE1	4:DI:374:ALA:HB1	1.78	0.48
3:DJ:412:GLU:OE1	3:DJ:416:ASN:ND2	2.36	0.48
4:DK:234:ILE:HD11	4:DK:272:TYR:HB2	1.95	0.48
4:DK:311:LYS:HE3	4:DK:344:VAL:HG12	1.95	0.48
4:EA:11:GLN:O	4:EA:14:VAL:HG22	2.13	0.48
4:EA:271:THR:HB	4:EA:377:MET:HB2	1.95	0.48
3:EB:350:LYS:HE3	4:EC:181:VAL:N	2.28	0.48
4:EC:425:LEU:HD12	4:EC:428:LEU:HB2	1.95	0.48
3:ED:229:VAL:O	3:ED:232:THR:OG1	2.23	0.48
3:ED:269:GLY:N	3:ED:367:PHE:O	2.46	0.48
3:EF:114:ASP:OD1	3:EF:115:SER:N	2.44	0.48
3:EH:239:CYS:SG	3:EH:316:VAL:HG21	2.53	0.48
3:EL:139:LEU:N	3:EL:168:SER:OG	2.45	0.48
3:EL:291:GLN:NE2	3:EL:295:ASP:OD1	2.46	0.48
11:F1:353:VAL:HA	11:F1:356:LYS:HE2	1.94	0.48
11:F3:292:ILE:HB	11:F3:295:THR:HG23	1.95	0.48
11:F3:387:TYR:CZ	11:F3:391:MET:HE1	2.47	0.48
11:F3:392:ALA:HB2	11:F3:419:GLU:HG2	1.94	0.48
11:F3:469:CYS:O	11:F3:472:MET:HG2	2.13	0.48
11:F9:197:ASN:ND2	11:F9:468:LYS:HB3	2.28	0.48
4:FC:425:LEU:HD12	4:FC:428:LEU:HD12	1.95	0.48
4:FE:182:VAL:HG23	4:FE:185:TYR:HD2	1.78	0.48
4:FE:208:ALA:N	4:FE:304:LYS:HZ1	2.09	0.48
4:FE:293:ASN:HA	4:FE:296:PHE:CE1	2.48	0.48
4:FI:50:ASN:O	4:FI:64:ARG:NH1	2.46	0.48
4:FK:105:ARG:HG2	4:FK:109:THR:HG21	1.95	0.48
3:FL:178:THR:HB	3:FL:181:GLU:HB2	1.93	0.48
3:FL:274:THR:O	3:FL:279:GLN:NE2	2.46	0.48
3:FL:404:ASP:OD1	3:FL:404:ASP:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Fa:333:TRP:O	11:Fa:337:THR:HG23	2.13	0.48
11:Fb:184:VAL:HG23	11:Fb:226:GLN:NE2	2.27	0.48
11:Fc:97:ARG:NH2	11:Fc:100:ASP:OD2	2.44	0.48
11:Fk:350:GLU:O	11:Fk:458:LYS:NZ	2.46	0.48
11:Fl:390:LYS:HE2	11:Fl:393:GLN:HE22	1.78	0.48
12:G:87:MET:HE3	32:T:342:LEU:HD11	1.94	0.48
13:G3:391:GLU:OE1	13:G3:391:GLU:N	2.46	0.48
13:G3:430:ILE:HG22	13:G3:432:GLU:H	1.78	0.48
14:G4:222:PHE:HD1	14:G4:256:CYS:HB2	1.77	0.48
14:G4:331:ASP:N	14:G4:331:ASP:OD1	2.46	0.48
14:G5:546:GLU:HA	14:G5:549:ILE:HD12	1.95	0.48
14:G5:726:SER:OG	14:G5:727:PRO:HD2	2.13	0.48
14:G6:42:GLY:HA3	14:G6:46:ASP:HB3	1.95	0.48
14:G6:691:GLU:HA	14:G6:694:PHE:CE2	2.48	0.48
4:GA:316:CYS:HB3	4:GA:378:LEU:HB2	1.94	0.48
4:GA:396:ASP:OD1	4:GA:397:LEU:N	2.46	0.48
3:GB:12:CYS:O	3:GB:15:GLN:N	2.38	0.48
3:GB:19:LYS:O	3:GB:22:GLU:HG3	2.13	0.48
4:GC:70:LEU:HB3	4:GC:97:GLU:O	2.13	0.48
3:GF:295:ASP:HB2	3:GF:298:ASN:HB2	1.95	0.48
3:GH:183:TYR:CZ	3:GH:395:LEU:HD21	2.48	0.48
4:GI:88:HIS:HD2	4:HI:284:GLU:OE2	1.96	0.48
4:GK:3:GLU:OE2	4:GK:130:THR:N	2.38	0.48
4:GK:70:LEU:HA	4:GK:95:GLY:HA3	1.95	0.48
4:GK:244:PHE:HB3	4:GK:356:ASN:HD21	1.78	0.48
12:H:488:GLN:HB2	12:H:489:ARG:HH11	1.78	0.48
3:HD:30:ILE:HG13	3:HD:36:TYR:HD2	1.78	0.48
3:HD:254:ALA:O	3:HD:258:VAL:N	2.42	0.48
4:HE:15:GLN:OE1	4:HE:15:GLN:N	2.40	0.48
4:HE:107:HIS:CD2	4:HE:152:LEU:HB3	2.48	0.48
3:HF:233:MET:HE2	3:HF:233:MET:HA	1.94	0.48
3:HF:277:GLY:O	3:HF:280:GLN:NE2	2.46	0.48
3:HH:246:LEU:HB3	3:HH:353:VAL:O	2.13	0.48
3:HH:380:ARG:O	3:HH:384:GLN:HG2	2.13	0.48
4:HI:113:GLU:OE1	4:HI:113:GLU:N	2.46	0.48
4:HI:119:LEU:HD23	4:HI:122:ILE:HD12	1.95	0.48
4:HI:217:LEU:HD13	4:HI:277:SER:HA	1.95	0.48
3:HJ:234:SER:O	3:HJ:238:THR:HG23	2.13	0.48
4:HK:35:GLN:HG2	4:HK:59:GLY:O	2.13	0.48
4:HK:70:LEU:HA	4:HK:95:GLY:HA3	1.94	0.48
4:HK:76:ASP:O	4:HK:80:THR:HG23	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HL:139:LEU:N	3:HL:168:SER:OG	2.45	0.48
3:ID:12:CYS:SG	3:ID:13:GLY:N	2.86	0.48
3:ID:32:PRO:O	3:ID:83:GLN:NE2	2.36	0.48
3:ID:81:PHE:O	3:ID:84:ILE:HG22	2.13	0.48
3:IF:60:VAL:HG23	3:IF:86:ARG:HH11	1.78	0.48
3:IF:172:SER:OG	3:IF:205:GLU:OE2	2.20	0.48
4:IG:91:GLN:HG3	4:IG:121:ARG:HH21	1.78	0.48
3:IJ:193:VAL:HG22	3:IJ:262:ARG:HH21	1.78	0.48
4:IK:320:ARG:HD3	4:IK:360:PRO:HG3	1.95	0.48
4:IM:116:ASP:N	4:IM:116:ASP:OD1	2.42	0.48
19:J1:47:ILE:HG21	19:J1:102:LEU:HD22	1.95	0.48
19:J2:176:PRO:O	19:J2:180:GLU:N	2.29	0.48
3:JB:52:ASN:ND2	3:JB:62:ARG:HD3	2.28	0.48
3:JD:11:GLN:HE21	39:JD:501:GTP:H3'	1.77	0.48
3:JD:101:TRP:HB2	3:JD:184:ASN:ND2	2.27	0.48
3:JD:235:GLY:O	3:JD:238:THR:OG1	2.22	0.48
4:JG:115:VAL:HA	4:JG:118:VAL:HG22	1.95	0.48
4:JG:287:SER:N	4:JG:290:GLU:OE2	2.46	0.48
3:JH:16:ILE:HD13	3:JH:226:ASN:ND2	2.25	0.48
3:JH:331:LEU:O	3:JH:334:GLN:NE2	2.46	0.48
4:JI:8:HIS:CD2	4:JI:17:GLY:HA3	2.47	0.48
4:JI:22:GLU:O	4:JI:26:LEU:HD23	2.12	0.48
4:JI:119:LEU:HD23	4:JI:122:ILE:HD11	1.95	0.48
4:JI:362:VAL:HA	4:JI:368:LEU:HD21	1.95	0.48
3:JJ:19:LYS:NZ	3:JJ:223:GLY:O	2.45	0.48
3:KB:199:THR:HB	3:KB:265:PHE:HA	1.95	0.48
3:KB:299:MET:HE1	3:KB:304:ASP:HA	1.95	0.48
4:KC:315:CYS:O	4:KC:351:PHE:HA	2.13	0.48
4:KE:196:GLU:HG2	4:KE:197:HIS:ND1	2.29	0.48
4:KE:287:SER:OG	4:KE:290:GLU:OE1	2.25	0.48
4:KG:216:ASN:ND2	4:KG:275:VAL:O	2.46	0.48
3:KH:380:ARG:O	3:KH:384:GLN:HG2	2.13	0.48
4:KI:11:GLN:O	4:KI:14:VAL:HG22	2.13	0.48
4:KI:188:ILE:HD11	4:KI:391:LEU:HD13	1.95	0.48
4:KI:208:ALA:N	4:KI:304:LYS:HZ1	2.10	0.48
3:KJ:324:LYS:HE2	4:KK:222:PRO:HD2	1.95	0.48
20:L:216:ALA:HA	20:L:269:LEU:HD11	1.94	0.48
22:L1:106:ILE:HD12	3:LB:424:GLN:HE22	1.78	0.48
22:L1:126:VAL:HG22	22:L1:127:ASP:H	1.78	0.48
22:L2:95:PRO:HG2	22:L2:97:MET:SD	2.53	0.48
4:LA:91:GLN:HG3	4:LA:121:ARG:HH21	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:LA:108:TYR:O	4:LA:112:LYS:NZ	2.35	0.48
4:LA:234:ILE:HD11	4:LA:272:TYR:HB2	1.95	0.48
3:LB:12:CYS:HB3	39:LB:501:GTP:O4'	2.12	0.48
4:LC:295:CYS:HB2	4:LC:377:MET:HG2	1.94	0.48
3:LD:305:PRO:HA	3:LD:373:ALA:HB2	1.94	0.48
4:LE:161:TYR:O	4:LE:166:LYS:NZ	2.46	0.48
3:LF:152:ILE:O	3:LF:156:ARG:HG2	2.13	0.48
3:LH:209:ASP:O	3:LH:213:ARG:HG2	2.13	0.48
3:LH:323:MET:SD	3:LH:323:MET:N	2.86	0.48
4:LI:217:LEU:HD13	4:LI:277:SER:HA	1.94	0.48
4:LI:390:ARG:HG2	4:LI:394:LYS:HZ2	1.78	0.48
23:M:100:THR:HG22	23:M:101:VAL:H	1.78	0.48
3:MB:12:CYS:SG	39:MB:501:GTP:H5'	2.52	0.48
3:MB:206:ALA:O	3:MB:210:ILE:HG12	2.13	0.48
3:MB:246:LEU:HB3	3:MB:353:VAL:O	2.13	0.48
4:MC:229:ARG:HE	4:MC:368:LEU:HD22	1.76	0.48
4:ME:287:SER:N	4:ME:290:GLU:OE2	2.46	0.48
4:ME:318:LEU:O	4:ME:375:VAL:HA	2.13	0.48
4:MI:187:SER:O	4:MI:190:THR:OG1	2.25	0.48
4:MI:216:ASN:ND2	4:MI:275:VAL:O	2.46	0.48
4:MK:424:ASP:O	4:MK:428:LEU:HG	2.13	0.48
3:ML:3:GLU:OE2	3:ML:127:CYS:HB2	2.13	0.48
4:MM:10:GLY:O	4:MM:14:VAL:HG13	2.13	0.48
4:MM:145:THR:OG1	39:MM:501:GTP:O1B	2.28	0.48
4:NA:12:ALA:HB1	39:NA:501:GTP:C2	2.47	0.48
3:NB:132:GLY:HA3	3:NB:163:ILE:H	1.78	0.48
4:NG:399:TYR:OH	4:NG:415:GLU:HB2	2.13	0.48
4:NI:30:ILE:HG13	4:NI:53:PHE:HE2	1.78	0.48
4:NK:235:VAL:HA	4:NK:238:ILE:HG12	1.95	0.48
28:O2:75:PRO:HB2	28:O2:76:PRO:HD3	1.95	0.48
28:O2:94:LYS:HA	28:O2:97:HIS:NE2	2.27	0.48
4:OA:146:GLY:N	39:OA:501:GTP:O2B	2.40	0.48
3:OB:375:GLN:HA	3:OB:378:PHE:CZ	2.47	0.48
4:OC:331:ALA:O	4:OC:334:THR:OG1	2.29	0.48
4:OE:187:SER:O	4:OE:190:THR:OG1	2.26	0.48
3:OF:172:SER:OG	3:OF:205:GLU:OE2	2.19	0.48
3:OF:317:PHE:HB3	3:OF:321:MET:HE3	1.95	0.48
3:OF:344:TRP:CZ3	4:OG:401:LYS:HG3	2.33	0.48
4:OG:67:PHE:HB2	4:OG:92:LEU:HD13	1.95	0.48
4:OG:272:TYR:CZ	4:OG:274:PRO:HG2	2.47	0.48
3:OH:324:LYS:HD2	4:OI:221:ARG:HA	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:OI:161:TYR:O	4:OI:166:LYS:NZ	2.43	0.48
3:OL:388:MET:HA	3:OL:391:ARG:NH1	2.27	0.48
29:P1:74:LYS:NZ	29:P1:120:SER:O	2.40	0.48
29:P1:213:MET:SD	29:P1:220:PHE:HB3	2.53	0.48
29:P1:467:ILE:HG12	29:P1:478:THR:HG23	1.95	0.48
29:P2:68:SER:N	29:P2:82:GLY:O	2.33	0.48
29:P2:185:TRP:HB3	29:P2:194:ILE:HD11	1.94	0.48
3:PD:217:LEU:HD11	3:PD:220:PRO:HB3	1.95	0.48
4:PE:70:LEU:HA	4:PE:95:GLY:HA3	1.94	0.48
4:PE:208:ALA:N	4:PE:304:LYS:HZ1	2.11	0.48
3:PF:17:GLY:HA2	3:PF:20:PHE:HB3	1.95	0.48
3:PF:322:SER:OG	3:PF:323:MET:SD	2.71	0.48
4:PI:208:ALA:H	4:PI:304:LYS:NZ	2.10	0.48
3:PJ:269:GLY:N	3:PJ:367:PHE:O	2.46	0.48
4:PK:280:LYS:O	4:PK:284:GLU:HB2	2.13	0.48
4:PK:396:ASP:HB3	4:PK:422:ARG:NH2	2.28	0.48
3:PL:199:THR:N	3:PL:264:HIS:O	2.45	0.48
3:QD:3:GLU:OE2	3:QD:127:CYS:HB2	2.12	0.48
4:QE:66:VAL:HA	4:QE:91:GLN:OE1	2.13	0.48
4:QI:319:TYR:N	4:QI:354:GLY:O	2.34	0.48
3:QJ:378:PHE:CD1	3:QJ:419:VAL:HG22	2.48	0.48
4:QK:1:MET:N	4:QK:130:THR:OG1	2.45	0.48
4:QM:271:THR:HB	4:QM:377:MET:HE2	1.95	0.48
4:QM:287:SER:N	4:QM:290:GLU:OE2	2.46	0.48
3:RB:324:LYS:HE3	4:RC:210:TYR:CD2	2.48	0.48
3:RH:147:MET:SD	3:RH:148:GLY:N	2.86	0.48
4:RI:316:CYS:N	4:RI:378:LEU:O	2.46	0.48
4:RK:32:PRO:O	4:RK:85:GLN:NE2	2.46	0.48
4:RK:72:PRO:HA	4:RK:75:VAL:HG12	1.95	0.48
3:SB:290:THR:HG21	3:SB:329:GLN:HG3	1.94	0.48
4:SE:30:ILE:HA	4:SE:36:MET:HE1	1.94	0.48
4:SE:107:HIS:CD2	4:SE:152:LEU:HB3	2.48	0.48
3:SF:3:GLU:OE2	3:SF:129:CYS:N	2.45	0.48
3:SF:347:ASN:HB3	4:SG:178:SER:HB3	1.94	0.48
3:SH:272:PRO:HA	3:SH:292:GLN:OE1	2.13	0.48
3:SH:328:GLU:OE1	3:SH:332:ASN:ND2	2.46	0.48
4:SI:116:ASP:N	4:SI:116:ASP:OD1	2.44	0.48
3:SL:2:ARG:HA	3:SL:129:CYS:O	2.13	0.48
3:TB:256:ASN:HD21	4:TC:101:ASN:HD22	1.61	0.48
4:TE:7:ILE:N	4:TE:136:LEU:O	2.29	0.48
4:TE:264:ARG:O	4:TE:266:HIS:ND1	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:TG:10:GLY:HA2	4:TG:145:THR:OG1	2.13	0.48
4:TG:166:LYS:N	4:TG:199:ASP:OD2	2.45	0.48
3:TH:47:ILE:HG12	3:TH:59:TYR:CD2	2.48	0.48
3:TH:206:ALA:O	3:TH:210:ILE:HG12	2.13	0.48
3:TH:286:VAL:HG21	3:TH:325:GLU:HG3	1.94	0.48
4:TI:139:HIS:CD2	4:TI:170:ALA:HB2	2.48	0.48
4:TK:125:LEU:HD13	4:TK:128:LEU:HD21	1.94	0.48
3:TL:42:LEU:HB2	3:TL:46:ARG:NH2	2.28	0.48
4:TM:89:PRO:HD2	4:UK:280:LYS:HZ3	1.78	0.48
33:U:254:ARG:O	33:U:258:LYS:HG3	2.13	0.48
4:UC:90:GLU:HG2	4:UC:121:ARG:NH2	2.27	0.48
4:UC:287:SER:N	4:UC:290:GLU:OE2	2.45	0.48
3:UF:2:ARG:HH22	3:UF:251:ARG:HH22	1.61	0.48
3:UH:330:MET:HG2	3:UH:349:VAL:HG11	1.95	0.48
4:VA:256:GLN:O	4:VA:260:VAL:HG12	2.13	0.48
4:VE:9:VAL:HA	4:VE:68:VAL:HG23	1.93	0.48
4:VE:154:MET:HE3	4:VE:194:THR:HG22	1.94	0.48
4:VG:9:VAL:HA	4:VG:68:VAL:HG23	1.95	0.48
3:VL:269:GLY:N	3:VL:367:PHE:O	2.46	0.48
4:WA:102:ASN:ND2	4:WA:411:GLU:OE2	2.44	0.48
4:WE:132:LEU:HB3	35:XJ:71:HIS:CD2	2.47	0.48
4:WE:168:GLU:HB2	4:WE:201:ALA:HA	1.95	0.48
3:WF:176:SER:O	3:WF:178:THR:N	2.46	0.48
3:WF:309:ARG:HH22	3:WF:344:TRP:HZ3	1.61	0.48
4:WG:214:ARG:NH1	4:WG:215:ARG:HG3	2.28	0.48
4:WG:333:ALA:HA	4:WG:336:LYS:HD2	1.94	0.48
4:WI:46:ASP:OD1	4:WI:50:ASN:ND2	2.45	0.48
34:XD:114:VAL:HA	34:XD:119:CYS:HA	1.95	0.48
34:XG:33:HIS:CE1	34:XG:50:GLU:HB2	2.48	0.48
35:XI:56:PHE:CZ	35:XI:96:PHE:HA	2.48	0.48
35:XJ:100:LEU:O	35:XJ:103:MET:HE3	2.13	0.48
35:XJ:153:LEU:HD22	35:XJ:212:THR:HG21	1.94	0.48
37:YC:110:LEU:HD23	37:YC:140:LEU:HB2	1.95	0.48
37:YL:69:PHE:O	37:YL:72:ILE:HG22	2.13	0.48
37:YL:140:LEU:HD12	37:YL:141:ILE:HG13	1.95	0.48
37:YN:120:GLU:O	37:YN:124:HIS:N	2.43	0.48
37:YQ:27:ALA:O	37:YQ:31:HIS:ND1	2.46	0.48
1:A:293:GLU:HG3	1:A:297:GLN:HE22	1.78	0.48
2:A1:268:LEU:O	2:A1:272:LYS:HG3	2.13	0.48
4:AG:49:PHE:CD2	4:AG:61:HIS:HE1	2.30	0.48
4:AG:88:HIS:HE1	4:AG:90:GLU:CD	2.20	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AG:329:ASN:OD1	4:AG:330:ALA:N	2.46	0.48
3:AH:176:SER:O	3:AH:178:THR:N	2.45	0.48
4:AI:12:ALA:HB1	39:AI:501:GTP:C2	2.48	0.48
4:AM:113:GLU:OE1	4:AM:113:GLU:N	2.47	0.48
5:B2:120:ARG:HA	5:B2:120:ARG:NE	2.29	0.48
5:B3:341:GLU:HG2	5:B4:56:ASP:HB3	1.94	0.48
5:B4:141:VAL:O	5:B4:145:GLU:HG2	2.12	0.48
5:B6:12:TYR:CD2	5:B6:16:ASP:HB2	2.48	0.48
5:B6:120:ARG:HA	5:B6:120:ARG:NE	2.28	0.48
5:B9:346:GLU:O	5:B9:349:ILE:HG22	2.14	0.48
3:BD:350:LYS:HE3	4:BE:181:VAL:H	1.77	0.48
3:BF:217:LEU:HD11	3:BF:220:PRO:HB3	1.95	0.48
3:BH:309:ARG:HH22	3:BH:344:TRP:HZ3	1.61	0.48
3:BJ:106:TYR:HB2	3:BJ:401:GLU:OE2	2.13	0.48
3:BJ:218:THR:OG1	3:BJ:219:THR:N	2.45	0.48
3:BL:218:THR:OG1	3:BL:219:THR:N	2.46	0.48
3:BL:317:PHE:HB3	3:BL:321:MET:HE3	1.95	0.48
7:C2:354:THR:HG21	7:C2:466:LEU:HB3	1.94	0.48
7:C4:132:TYR:O	7:C4:136:ARG:HG2	2.13	0.48
7:C6:116:ASN:HA	7:C6:119:ARG:HE	1.78	0.48
7:C8:117:SER:OG	7:C9:371:GLU:OE1	2.30	0.48
7:C8:358:LYS:HA	7:C8:462:LYS:NZ	2.27	0.48
7:C8:383:LYS:HB3	10:E2:21:TYR:OH	2.14	0.48
7:C8:387:LYS:O	7:C8:390:SER:OG	2.26	0.48
7:C9:242:ALA:HB1	10:E4:54:MET:HB2	1.94	0.48
7:C9:310:ARG:NH2	7:C9:314:GLU:OE1	2.45	0.48
3:CB:6:HIS:HE1	3:CB:8:GLN:HB3	1.77	0.48
3:CB:8:GLN:NE2	3:CB:65:LEU:HG	2.28	0.48
3:CB:206:ALA:O	3:CB:210:ILE:HG12	2.12	0.48
3:CD:87:PRO:HA	3:CD:90:PHE:CD2	2.48	0.48
4:CE:311:LYS:NZ	4:CE:343:PHE:O	2.42	0.48
3:CF:12:CYS:HB3	39:CF:501:GTP:H5'	1.94	0.48
4:CG:393:HIS:CE1	4:CG:394:LYS:HE3	2.48	0.48
3:CJ:328:GLU:OE2	3:CJ:329:GLN:NE2	2.45	0.48
4:CK:362:VAL:HA	4:CK:368:LEU:HD21	1.95	0.48
3:CL:216:LYS:HZ3	14:G6:306:VAL:HG22	1.79	0.48
4:CM:75:VAL:HA	4:CM:78:VAL:HG22	1.95	0.48
4:CM:351:PHE:O	4:CM:352:LYS:HD2	2.12	0.48
8:D2:232:THR:HG22	8:D2:235:SER:HB3	1.93	0.48
8:D3:210:SER:OG	10:E2:142:ARG:NH2	2.47	0.48
8:D3:272:ARG:HH22	8:D3:273:LEU:HG	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:D3:363:ARG:NH1	8:D3:369:CYS:SG	2.86	0.48
8:D4:266:LEU:O	8:D4:270:ARG:HG3	2.12	0.48
8:D6:351:ARG:HB2	8:D7:240:PHE:CE1	2.48	0.48
8:D7:135:LYS:HG2	8:D7:194:ILE:HD11	1.95	0.48
8:D8:384:LEU:O	8:D8:387:SER:OG	2.27	0.48
8:D9:53:ARG:HA	8:D9:56:TRP:HB3	1.93	0.48
4:DA:10:GLY:O	4:DA:14:VAL:HG13	2.14	0.48
4:DA:45:GLY:HA2	4:DA:49:PHE:HE1	1.77	0.48
4:DA:216:ASN:HB2	4:DA:276:ILE:HD12	1.94	0.48
4:DC:165:SER:C	4:DC:166:LYS:HD2	2.39	0.48
3:DD:40:SER:HB3	3:DD:42:LEU:HD23	1.95	0.48
4:DE:166:LYS:N	4:DE:199:ASP:OD2	2.46	0.48
3:DF:72:THR:O	3:DF:75:SER:OG	2.30	0.48
3:DJ:83:GLN:HG2	3:DJ:84:ILE:HD12	1.94	0.48
3:DJ:113:VAL:HA	3:DJ:116:VAL:HG22	1.95	0.48
3:DL:17:GLY:HA2	3:DL:20:PHE:HB3	1.94	0.48
10:E1:111:GLN:NE2	10:E1:118:PHE:HB3	2.27	0.48
3:EB:176:SER:O	3:EB:178:THR:N	2.46	0.48
3:EB:197:ASP:OD1	3:EB:198:GLU:N	2.46	0.48
4:EC:34:GLY:HA2	4:EC:86:LEU:HD11	1.94	0.48
4:EC:256:GLN:NE2	3:ED:397:TRP:HE1	2.11	0.48
3:ED:75:SER:O	3:ED:78:SER:OG	2.26	0.48
4:EE:26:LEU:HD12	14:G5:428:GLY:HA2	1.95	0.48
4:EE:263:PRO:HD3	3:EF:396:HIS:CD2	2.49	0.48
3:EF:392:LYS:HD2	3:EF:392:LYS:O	2.13	0.48
3:EH:8:GLN:OE1	3:EH:8:GLN:N	2.47	0.48
3:EH:47:ILE:HG12	3:EH:59:TYR:CD2	2.48	0.48
3:EJ:12:CYS:SG	3:EJ:13:GLY:N	2.87	0.48
9:F:321:PRO:HA	9:F:324:ALA:C	2.38	0.48
11:F3:217:ARG:HB3	11:F3:335:GLN:NE2	2.28	0.48
11:F8:333:TRP:NE1	11:Fc:352:ASP:HB2	2.28	0.48
11:F8:334:LYS:O	11:F8:337:THR:OG1	2.26	0.48
3:FB:189:VAL:HA	3:FB:192:LEU:HD12	1.96	0.48
3:FD:12:CYS:SG	39:FD:501:GTP:H5'	2.53	0.48
3:FD:217:LEU:O	3:FD:219:THR:N	2.46	0.48
3:FD:271:ALA:HB3	3:FD:365:ALA:H	1.78	0.48
4:FE:287:SER:N	4:FE:290:GLU:OE2	2.46	0.48
3:FH:329:GLN:HA	3:FH:332:ASN:HB2	1.95	0.48
3:FH:374:ILE:HG23	3:FH:377:LEU:HD12	1.94	0.48
4:FI:187:SER:O	4:FI:190:THR:OG1	2.25	0.48
4:FI:287:SER:OG	4:FI:290:GLU:OE1	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FL:217:LEU:O	3:FL:219:THR:N	2.38	0.48
3:FL:309:ARG:HH22	3:FL:344:TRP:HZ3	1.60	0.48
11:Fa:408:CYS:HA	11:Fb:296:TRP:CH2	2.48	0.48
11:Fa:411:VAL:O	11:Fa:415:ARG:HG2	2.13	0.48
11:Fb:229:MET:HA	11:Fb:232:LEU:HG	1.95	0.48
11:Fc:156:LEU:HD13	11:Fc:304:ILE:HD11	1.95	0.48
11:Fc:170:MET:SD	11:Fc:314:SER:HB2	2.53	0.48
11:Fi:343:PHE:CZ	11:Fi:347:ILE:HD11	2.48	0.48
11:Fk:357:LEU:O	11:Fk:361:LEU:HG	2.12	0.48
12:G:401:VAL:HG13	4:GC:282:TYR:CE1	2.48	0.48
13:G2:474:LYS:HG2	13:G2:476:PHE:H	1.78	0.48
13:G3:34:ARG:HE	13:G3:39:VAL:HG21	1.78	0.48
13:G3:474:LYS:HZ2	13:G3:476:PHE:HB2	1.77	0.48
14:G6:114:GLN:HB2	14:G6:133:ARG:HB2	1.95	0.48
14:G6:164:THR:O	14:G6:166:LYS:NZ	2.44	0.48
14:G6:308:GLY:HA2	14:G6:313:TRP:CZ2	2.48	0.48
4:GA:102:ASN:HB3	4:GA:105:ARG:HB2	1.95	0.48
3:GB:272:PRO:HA	3:GB:292:GLN:OE1	2.13	0.48
4:GC:47:ASP:O	4:GC:50:ASN:N	2.31	0.48
4:GC:117:LEU:O	4:GC:121:ARG:HG2	2.13	0.48
4:GC:229:ARG:HH21	4:GC:368:LEU:HD22	1.77	0.48
4:GC:345:ASP:N	4:GC:345:ASP:OD1	2.45	0.48
3:GD:26:ASP:OD1	3:GD:27:GLU:N	2.46	0.48
4:GI:287:SER:N	4:GI:290:GLU:OE2	2.46	0.48
3:GL:357:PRO:O	3:GL:359:ARG:NH1	2.45	0.48
4:HA:119:LEU:HA	4:HA:122:ILE:HG12	1.94	0.48
3:HB:117:LEU:HD11	3:HB:154:LYS:HD2	1.95	0.48
4:HC:386:GLU:OE2	4:HC:390:ARG:NH1	2.46	0.48
3:HD:317:PHE:O	3:HD:354:CYS:N	2.36	0.48
4:HE:324:VAL:HG21	3:HF:219:THR:HG22	1.95	0.48
4:HG:54:SER:N	4:HG:62:VAL:O	2.45	0.48
3:HH:2:ARG:HG2	3:HH:131:GLN:NE2	2.28	0.48
3:HH:3:GLU:HG2	3:HH:130:LEU:HD23	1.95	0.48
3:HH:163:ILE:HD13	3:HH:250:LEU:HB3	1.94	0.48
3:HH:206:ALA:O	3:HH:209:ASP:N	2.46	0.48
4:HI:25:CYS:O	4:HI:30:ILE:N	2.44	0.48
4:IA:336:LYS:HE2	3:IB:175:VAL:HB	1.95	0.48
4:IE:116:ASP:N	4:IE:116:ASP:OD1	2.45	0.48
4:IE:184:PRO:HB2	4:IE:395:PHE:CE1	2.48	0.48
3:IF:139:LEU:HD21	3:IF:170:VAL:HG22	1.94	0.48
3:IF:206:ALA:O	3:IF:210:ILE:HG12	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:IG:87:PHE:HB3	4:IG:92:LEU:HD21	1.96	0.48
4:IG:295:CYS:HB2	4:IG:377:MET:HE3	1.95	0.48
4:II:261:PRO:HA	3:IJ:394:PHE:CE1	2.46	0.48
4:IM:186:ASN:OD1	4:IM:187:SER:N	2.46	0.48
19:J3:171:PRO:HD3	19:J3:187:GLU:OE1	2.13	0.48
4:JA:103:TYR:HB2	4:JA:186:ASN:HB2	1.94	0.48
4:JC:3:GLU:OE2	4:JC:130:THR:N	2.37	0.48
4:JE:36:MET:HG3	4:JE:41:THR:OG1	2.13	0.48
3:JF:70:PRO:HA	3:JF:73:MET:HE3	1.94	0.48
3:JF:272:PRO:HA	3:JF:292:GLN:OE1	2.13	0.48
21:K1:353:THR:HA	21:K1:356:LEU:HD12	1.95	0.48
21:K2:383:LEU:HD23	21:K2:385:ARG:N	2.28	0.48
4:KC:115:VAL:HG21	4:KC:156:ARG:HD3	1.95	0.48
3:KF:273:LEU:H	3:KF:292:GLN:NE2	2.08	0.48
4:KI:196:GLU:OE1	4:KI:196:GLU:N	2.34	0.48
3:KJ:190:HIS:HD2	3:KJ:191:GLN:HE21	1.59	0.48
4:KK:262:TYR:OH	3:KL:391:ARG:O	2.31	0.48
22:L2:224:LYS:HB3	22:L2:228:GLN:NE2	2.28	0.48
4:LA:402:ARG:HB2	4:LA:405:VAL:HG11	1.95	0.48
3:LB:83:GLN:O	3:LB:86:ARG:NH2	2.46	0.48
3:LB:378:PHE:HA	3:LB:381:ILE:HG22	1.96	0.48
4:LE:8:HIS:CD2	4:LE:17:GLY:HA3	2.48	0.48
3:LF:172:SER:OG	3:LF:205:GLU:OE2	2.21	0.48
3:LH:269:GLY:O	3:LH:367:PHE:N	2.33	0.48
4:LI:226:ASN:ND2	4:LI:367:ASP:OD2	2.45	0.48
4:LI:246:GLY:HA3	4:LI:355:ILE:O	2.12	0.48
3:LJ:323:MET:SD	3:LJ:323:MET:N	2.87	0.48
4:LK:287:SER:N	4:LK:290:GLU:OE2	2.46	0.48
39:MD:502:GTP:O3G	4:ME:144:GLY:HA3	2.13	0.48
4:ME:47:ASP:HB3	4:ME:49:PHE:CE2	2.48	0.48
4:ME:319:TYR:HB2	4:ME:355:ILE:HD13	1.96	0.48
3:MF:214:THR:HG21	3:MF:273:LEU:HB3	1.95	0.48
3:MF:214:THR:HG23	3:MF:215:LEU:HD12	1.95	0.48
3:MF:299:MET:HE2	3:MF:303:CYS:C	2.38	0.48
4:MG:102:ASN:HB3	4:MG:105:ARG:HB2	1.95	0.48
4:MG:166:LYS:N	4:MG:199:ASP:OD2	2.46	0.48
3:MH:114:ASP:N	3:MH:114:ASP:OD1	2.44	0.48
4:MI:256:GLN:O	4:MI:260:VAL:HG12	2.13	0.48
3:MJ:1:MET:HE1	3:MJ:49:VAL:HA	1.95	0.48
3:MJ:12:CYS:HB3	39:MJ:501:GTP:H5'	1.94	0.48
4:MM:196:GLU:HG2	4:MM:197:HIS:ND1	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:NE:104:ALA:O	4:NE:108:TYR:N	2.43	0.48
4:NE:272:TYR:CZ	4:NE:274:PRO:HG2	2.49	0.48
3:NF:410:GLU:HA	3:NF:413:SER:HB3	1.95	0.48
3:NJ:372:THR:HG21	3:NJ:426:GLN:HG3	1.95	0.48
4:NK:405:VAL:O	4:NK:409:VAL:HG22	2.13	0.48
3:NL:150:LEU:O	3:NL:153:SER:OG	2.29	0.48
3:NL:174:LYS:HG3	3:NL:175:VAL:HG12	1.95	0.48
28:O1:97:HIS:O	28:O1:98:LYS:HG2	2.13	0.48
28:O2:94:LYS:HA	28:O2:97:HIS:CE1	2.48	0.48
4:OA:256:GLN:O	4:OA:260:VAL:HG12	2.12	0.48
3:OB:19:LYS:NZ	3:OB:223:GLY:O	2.46	0.48
3:OB:255:VAL:HG21	4:OC:100:ALA:O	2.13	0.48
4:OE:405:VAL:O	4:OE:409:VAL:HG22	2.13	0.48
4:OG:203:MET:HE1	4:OG:267:PHE:HB3	1.95	0.48
3:OH:214:THR:HG23	3:OH:215:LEU:HD12	1.96	0.48
3:OH:324:LYS:HD3	4:OI:210:TYR:HE1	1.77	0.48
4:OK:191:THR:O	4:OK:195:LEU:HG	2.13	0.48
4:OK:207:GLU:HB2	4:OK:304:LYS:HZ1	1.78	0.48
29:P2:18:ALA:HB1	29:P2:364:LYS:HD3	1.94	0.48
4:PA:386:GLU:O	4:PA:390:ARG:N	2.39	0.48
3:PD:81:PHE:O	3:PD:84:ILE:HG22	2.12	0.48
4:PE:7:ILE:HB	4:PE:137:ILE:HA	1.93	0.48
4:PG:45:GLY:HA2	4:PG:49:PHE:HE1	1.78	0.48
4:PG:70:LEU:HA	4:PG:95:GLY:HA3	1.95	0.48
4:PG:220:GLU:O	4:PG:221:ARG:NE	2.43	0.48
4:PI:76:ASP:OD1	4:PI:79:ARG:NH1	2.46	0.48
3:PJ:91:VAL:HG11	3:PJ:116:VAL:HG12	1.95	0.48
4:PM:424:ASP:O	4:PM:428:LEU:HG	2.14	0.48
30:Q2:1468:LEU:HB3	30:Q2:1504:LYS:C	2.39	0.48
30:Q3:1401:GLN:OE1	30:Q3:1406:LEU:HB2	2.13	0.48
3:QB:4:ILE:HB	3:QB:50:TYR:HE1	1.76	0.48
3:QB:324:LYS:HD2	4:QC:221:ARG:HA	1.95	0.48
3:QD:100:ASN:O	3:QD:103:LYS:HG3	2.13	0.48
3:QF:378:PHE:CD1	3:QF:419:VAL:HG22	2.47	0.48
4:QG:72:PRO:HA	4:QG:75:VAL:HG12	1.94	0.48
3:QJ:67:ASP:OD2	3:QJ:72:THR:OG1	2.25	0.48
3:QJ:172:SER:OG	3:QJ:205:GLU:OE2	2.15	0.48
3:QL:47:ILE:HG12	3:QL:59:TYR:CD2	2.48	0.48
4:QM:236:SER:O	4:QM:243:ARG:NH2	2.39	0.48
3:RB:3:GLU:OE2	3:RB:127:CYS:HB2	2.13	0.48
4:RC:47:ASP:HB3	4:RC:49:PHE:CE2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RF:132:GLY:HA3	3:RF:163:ILE:H	1.77	0.48
3:RF:273:LEU:H	3:RF:292:GLN:HE22	1.61	0.48
4:RG:145:THR:OG1	39:RG:501:GTP:O1B	2.31	0.48
3:RH:183:TYR:CD1	3:RH:388:MET:HE3	2.48	0.48
3:SB:2:ARG:HB3	3:SB:131:GLN:NE2	2.27	0.48
4:SC:390:ARG:O	4:SC:394:LYS:HG2	2.13	0.48
3:SD:273:LEU:H	3:SD:292:GLN:HE22	1.61	0.48
4:SE:72:PRO:HA	4:SE:75:VAL:HG12	1.95	0.48
4:SE:154:MET:HA	4:SE:157:LEU:HG	1.95	0.48
4:SG:51:THR:HG23	4:SG:52:PHE:CD2	2.47	0.48
4:SI:151:SER:HA	4:SI:154:MET:HE3	1.95	0.48
3:SJ:305:PRO:HA	3:SJ:373:ALA:HB2	1.96	0.48
3:SJ:420:SER:O	3:SJ:424:GLN:HG2	2.13	0.48
4:SM:70:LEU:HA	4:SM:95:GLY:HA3	1.95	0.48
3:TD:3:GLU:OE2	3:TD:129:CYS:N	2.47	0.48
3:TD:206:ALA:O	3:TD:210:ILE:HG12	2.13	0.48
3:TD:388:MET:HE3	3:TD:389:PHE:CE2	2.48	0.48
4:TE:230:LEU:O	4:TE:234:ILE:HG12	2.13	0.48
3:TH:261:PRO:HD3	4:TI:406:HIS:CG	2.48	0.48
3:TH:415:MET:O	3:TH:419:VAL:HG23	2.14	0.48
4:TI:107:HIS:CD2	4:TI:152:LEU:HB3	2.47	0.48
3:TJ:39:ASP:OD1	3:TJ:39:ASP:N	2.43	0.48
4:TK:12:ALA:HB1	39:TK:501:GTP:C2	2.48	0.48
4:TK:30:ILE:HA	4:TK:36:MET:HE1	1.94	0.48
4:TK:116:ASP:N	4:TK:116:ASP:OD1	2.43	0.48
4:TM:329:ASN:OD1	4:TM:330:ALA:N	2.45	0.48
3:TN:148:GLY:O	3:TN:152:ILE:HG12	2.13	0.48
4:UC:154:MET:HE3	4:UC:194:THR:HG22	1.95	0.48
4:UC:203:MET:HE1	4:UC:267:PHE:HB3	1.95	0.48
4:UK:122:ILE:HG21	4:UK:157:LEU:HD11	1.94	0.48
4:UK:172:TYR:HB2	4:UK:203:MET:HG3	1.94	0.48
4:UK:176:GLN:NE2	4:UK:207:GLU:OE2	2.46	0.48
4:UK:371:VAL:HG11	4:UK:374:ALA:HB2	1.94	0.48
4:VA:25:CYS:HB2	4:VA:30:ILE:HB	1.94	0.48
4:VE:424:ASP:O	4:VE:428:LEU:HD23	2.13	0.48
3:VF:218:THR:OG1	3:VF:219:THR:N	2.46	0.48
3:VF:289:LEU:HD13	3:VF:363:MET:HE2	1.95	0.48
3:VH:47:ILE:HG13	3:VH:51:TYR:HB2	1.94	0.48
4:VI:88:HIS:O	4:VI:91:GLN:HG3	2.12	0.48
4:VI:345:ASP:N	4:VI:345:ASP:OD1	2.46	0.48
4:VK:1:MET:N	4:VK:130:THR:OG1	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:VK:346:TRP:HE1	3:VL:391:ARG:HH11	1.61	0.48
3:VL:378:PHE:CD1	3:VL:419:VAL:HG22	2.47	0.48
3:WB:152:ILE:O	3:WB:156:ARG:HG2	2.13	0.48
3:WB:234:SER:O	3:WB:238:THR:HG23	2.13	0.48
3:WD:410:GLU:HA	3:WD:413:SER:HB3	1.94	0.48
4:WK:206:ASN:HA	4:WK:209:ILE:HD12	1.95	0.48
3:WL:305:PRO:HA	3:WL:373:ALA:HB2	1.94	0.48
35:XI:93:LEU:HD23	35:XI:129:VAL:HG11	1.95	0.48
37:YB:74:SER:HB2	37:YB:78:LYS:NZ	2.29	0.48
37:YD:26:ILE:HD12	37:YD:134:TYR:CE1	2.47	0.48
37:YG:11:ILE:HG23	37:YG:14:LYS:NZ	2.28	0.48
37:YI:106:GLN:HG2	37:YI:107:SER:H	1.77	0.48
37:YK:42:PRO:HA	37:YK:133:HIS:HB3	1.96	0.48
37:YK:61:THR:HG22	37:YK:64:ARG:HH21	1.77	0.48
37:YO:76:LEU:HA	37:YO:79:LEU:HB2	1.94	0.48
37:YW:140:LEU:O	37:YW:144:VAL:HG23	2.12	0.48
36:Z:251:ASN:OD1	36:Z:252:LEU:N	2.46	0.48
38:a:74:LEU:HG	38:a:78:PHE:CZ	2.48	0.48
2:A2:73:TRP:CH2	2:A2:218:LEU:HD23	2.48	0.48
2:A2:96:THR:O	2:A2:99:GLU:HG3	2.11	0.48
2:A2:323:ARG:CZ	2:A3:181:ALA:HA	2.42	0.48
2:A3:117:GLU:O	2:A3:120:GLU:HG3	2.13	0.48
2:A3:135:GLU:HB3	2:A3:260:VAL:HG12	1.95	0.48
4:AC:47:ASP:HB3	4:AC:49:PHE:CE2	2.49	0.48
4:AC:76:ASP:OD1	4:AC:79:ARG:NH1	2.46	0.48
4:AE:8:HIS:HB2	4:AE:67:PHE:HA	1.95	0.48
4:AE:411:GLU:OE2	4:AE:413:MET:HE1	2.11	0.48
3:AF:379:LYS:O	3:AF:382:SER:OG	2.17	0.48
4:AG:210:TYR:OH	4:AG:221:ARG:NH2	2.46	0.48
4:AI:166:LYS:N	4:AI:199:ASP:OD2	2.46	0.48
3:AJ:218:THR:OG1	3:AJ:219:THR:N	2.46	0.48
3:AJ:293:MET:HE2	3:AJ:367:PHE:HB3	1.95	0.48
3:AJ:394:PHE:HA	3:AJ:397:TRP:HZ3	1.78	0.48
3:AL:36:TYR:CZ	3:AL:38:GLY:HA2	2.48	0.48
3:AL:268:PRO:HD2	3:AL:301:ALA:HB2	1.95	0.48
4:AM:306:ASP:OD2	26:N4:74:ARG:NH2	2.46	0.48
1:B:321:GLN:HB2	3:HL:362:LYS:HE3	1.95	0.48
5:B3:115:GLU:O	5:B3:119:LEU:HG	2.13	0.48
5:B6:270:ARG:HD3	7:C4:155:PHE:CZ	2.48	0.48
3:BB:165:ASN:OD1	3:BB:166:THR:N	2.46	0.48
4:BC:230:LEU:O	4:BC:234:ILE:HG12	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BC:287:SER:N	4:BC:290:GLU:OE2	2.46	0.48
3:BF:117:LEU:HB3	3:BF:121:ARG:NH2	2.28	0.48
3:BF:380:ARG:O	3:BF:384:GLN:HG2	2.14	0.48
3:BJ:41:ASP:O	3:BJ:45:GLU:N	2.39	0.48
3:BJ:47:ILE:HG12	3:BJ:59:TYR:CD2	2.48	0.48
4:BK:46:ASP:OD1	4:BK:50:ASN:ND2	2.40	0.48
4:BK:433:GLU:O	4:BK:437:VAL:N	2.41	0.48
4:BM:301:GLN:OE1	4:BM:301:GLN:N	2.47	0.48
4:BM:316:CYS:N	4:BM:378:LEU:O	2.29	0.48
6:C:308:LYS:NZ	3:ID:39:ASP:HA	2.28	0.48
6:C:328:ALA:HB2	6:C:389:PHE:CE2	2.48	0.48
7:C1:271:CYS:SG	7:C2:399:ARG:NH2	2.75	0.48
7:C2:231:GLU:HA	7:C2:234:ARG:NE	2.27	0.48
7:C4:127:LEU:HD12	7:C4:128:ILE:HD13	1.96	0.48
3:CD:32:PRO:HD2	14:G4:289:PRO:HG2	1.94	0.48
3:CD:40:SER:HB3	3:CD:42:LEU:HD23	1.95	0.48
4:CE:70:LEU:HB3	4:CE:97:GLU:O	2.14	0.48
3:CF:46:ARG:HH22	4:CG:73:THR:HG23	1.78	0.48
4:CG:119:LEU:HB3	4:CG:123:ARG:NH2	2.28	0.48
3:CH:28:HIS:O	3:CH:43:GLN:NE2	2.46	0.48
4:CI:16:ILE:HG22	4:CI:228:ASN:OD1	2.14	0.48
4:CI:272:TYR:CZ	4:CI:274:PRO:HG2	2.48	0.48
4:CK:105:ARG:O	4:CK:109:THR:OG1	2.18	0.48
3:CL:249:ASP:O	3:CL:253:LEU:HG	2.14	0.48
7:Cc:351:ILE:O	7:Cc:355:VAL:HG23	2.14	0.48
8:D2:120:GLU:HA	8:D2:123:GLU:CD	2.38	0.48
8:D3:141:ALA:O	8:D3:145:THR:HG23	2.13	0.48
8:D8:174:VAL:O	8:D8:178:LYS:HG3	2.13	0.48
8:D8:324:LYS:HD2	8:D9:71:ARG:NH1	2.28	0.48
4:DA:119:LEU:HB3	4:DA:123:ARG:NH2	2.28	0.48
3:DB:12:CYS:SG	3:DB:13:GLY:N	2.86	0.48
3:DB:324:LYS:HE2	4:DC:222:PRO:HD2	1.95	0.48
3:DD:206:ALA:O	3:DD:210:ILE:HG12	2.13	0.48
4:DE:324:VAL:HG11	3:DF:219:THR:HB	1.94	0.48
3:DF:197:ASP:OD1	3:DF:198:GLU:N	2.46	0.48
3:DL:384:GLN:O	3:DL:388:MET:HG2	2.14	0.48
4:EA:206:ASN:HA	4:EA:209:ILE:HD12	1.94	0.48
3:EB:12:CYS:HB3	39:EB:501:GTP:H5'	1.95	0.48
4:EE:119:LEU:HB3	4:EE:123:ARG:NH2	2.28	0.48
3:EF:269:GLY:O	3:EF:367:PHE:N	2.35	0.48
4:EI:34:GLY:HA2	4:EI:86:LEU:HD11	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EI:186:ASN:OD1	4:EI:187:SER:N	2.46	0.48
4:EI:392:ASP:OD1	4:EI:393:HIS:N	2.46	0.48
3:EJ:11:GLN:HE21	39:EJ:501:GTP:H3'	1.78	0.48
11:F1:453:HIS:CD2	11:F6:401:ARG:HG3	2.48	0.48
11:F4:153:LYS:HZ2	11:F4:257:LYS:HD2	1.79	0.48
11:F6:248:HIS:O	11:F6:251:GLU:HG2	2.13	0.48
11:F7:258:SER:O	11:F7:261:GLN:HG3	2.13	0.48
11:F7:378:LEU:HD22	11:F7:437:THR:HG21	1.96	0.48
11:F7:427:LEU:O	11:F7:430:LEU:HG	2.14	0.48
3:FD:350:LYS:HE3	4:FE:180:ALA:HA	1.94	0.48
3:FF:152:ILE:O	3:FF:156:ARG:HG2	2.13	0.48
4:FI:205:ASP:OD2	4:FI:304:LYS:NZ	2.38	0.48
4:FI:329:ASN:OD1	4:FI:330:ALA:N	2.47	0.48
4:FK:2:ARG:HA	4:FK:133:GLN:NE2	2.20	0.48
4:FK:102:ASN:HB3	4:FK:105:ARG:HB2	1.95	0.48
4:FK:143:GLY:O	4:FK:147:SER:OG	2.27	0.48
4:FK:273:ALA:HB2	4:FK:295:CYS:HB3	1.94	0.48
3:FL:2:ARG:HA	3:FL:129:CYS:O	2.14	0.48
3:FL:12:CYS:SG	3:FL:13:GLY:N	2.86	0.48
11:Fa:335:GLN:O	11:Fa:339:THR:HG23	2.12	0.48
11:Fc:311:ARG:O	11:Fc:314:SER:OG	2.31	0.48
11:Fi:237:ASP:O	11:Fi:240:ILE:HB	2.12	0.48
11:Fj:370:GLN:O	11:Fj:374:THR:HG23	2.12	0.48
11:Fl:188:LEU:HA	11:Fl:222:LEU:HD13	1.94	0.48
12:G:93:ASN:O	12:G:97:ARG:HG3	2.13	0.48
13:G2:212:TYR:HA	13:G2:215:LEU:HD12	1.94	0.48
13:G2:381:LEU:HD11	13:G2:397:CYS:HB2	1.95	0.48
13:G3:27:ARG:HD3	13:G3:27:ARG:H	1.79	0.48
13:G3:107:VAL:HG11	13:G3:110:SER:HB3	1.95	0.48
13:G3:196:SER:OG	13:G3:197:GLN:NE2	2.45	0.48
4:GA:113:GLU:N	4:GA:113:GLU:OE1	2.42	0.48
3:GB:381:ILE:HD12	3:GB:385:PHE:HE2	1.77	0.48
4:GC:32:PRO:O	4:GC:85:GLN:NE2	2.47	0.48
4:GC:234:ILE:HD11	4:GC:272:TYR:HB2	1.94	0.48
3:GD:176:SER:O	3:GD:178:THR:N	2.46	0.48
4:GE:352:LYS:NZ	3:GF:179:VAL:HG13	2.28	0.48
3:GF:180:VAL:HA	3:GF:183:TYR:CD2	2.48	0.48
3:GF:289:LEU:O	3:GF:293:MET:N	2.39	0.48
4:GK:32:PRO:HA	4:GK:83:TYR:CE1	2.48	0.48
4:GK:207:GLU:HB3	4:GK:304:LYS:HZ1	1.78	0.48
15:H2:214:GLN:HE21	15:H2:244:MET:HE3	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H5:28:ARG:HG2	15:H5:29:TYR:CD1	2.48	0.48
15:H6:12:PRO:O	15:H6:15:HIS:NE2	2.47	0.48
4:HA:185:TYR:CZ	4:HA:398:MET:HE1	2.49	0.48
3:HB:324:LYS:HD2	4:HC:221:ARG:HA	1.95	0.48
3:HD:36:TYR:OH	3:HD:43:GLN:NE2	2.44	0.48
4:HE:16:ILE:HG22	4:HE:228:ASN:OD1	2.13	0.48
4:HE:263:PRO:C	4:HE:264:ARG:HD3	2.37	0.48
4:HG:3:GLU:N	4:HG:133:GLN:OE1	2.46	0.48
4:HG:261:PRO:HG3	4:HG:313:MET:SD	2.53	0.48
3:HH:317:PHE:O	3:HH:354:CYS:N	2.42	0.48
4:HI:318:LEU:O	4:HI:375:VAL:HA	2.14	0.48
4:HI:386:GLU:HA	4:HI:389:ALA:HB3	1.95	0.48
4:HK:273:ALA:HB2	4:HK:295:CYS:HB3	1.94	0.48
3:IB:282:ARG:NH2	3:IB:292:GLN:OE1	2.37	0.48
4:IC:166:LYS:N	4:IC:199:ASP:OD2	2.47	0.48
3:ID:176:SER:O	3:ID:178:THR:N	2.46	0.48
4:IE:386:GLU:HA	4:IE:389:ALA:HB3	1.95	0.48
4:IE:399:TYR:OH	4:IE:415:GLU:HB2	2.12	0.48
3:IF:170:VAL:N	3:IF:202:ILE:O	2.38	0.48
4:IG:113:GLU:OE1	4:IG:113:GLU:N	2.43	0.48
4:II:263:PRO:HD3	3:IJ:396:HIS:CD2	2.48	0.48
4:II:427:ALA:HA	4:II:430:LYS:HZ2	1.76	0.48
3:IL:32:PRO:HA	3:IL:81:PHE:CE1	2.48	0.48
3:IL:251:ARG:HH22	4:IM:105:ARG:NE	2.12	0.48
4:IM:216:ASN:OD1	4:IM:217:LEU:N	2.46	0.48
4:IM:216:ASN:ND2	4:IM:275:VAL:O	2.46	0.48
4:IM:397:LEU:O	4:IM:401:LYS:HG2	2.14	0.48
18:J:62:HIS:CD2	4:JG:364:PRO:HG3	2.48	0.48
18:J:97:ILE:HD11	18:J:106:ARG:NE	2.27	0.48
4:JA:50:ASN:OD1	4:JA:51:THR:N	2.47	0.48
4:JA:88:HIS:HB3	4:JA:91:GLN:HB2	1.94	0.48
3:JB:77:ARG:O	3:JB:77:ARG:NH1	2.37	0.48
3:JB:218:THR:OG1	3:JB:219:THR:N	2.45	0.48
4:JC:139:HIS:CD2	4:JC:170:ALA:HB2	2.48	0.48
3:JD:81:PHE:O	3:JD:84:ILE:HG22	2.13	0.48
3:JD:176:SER:O	3:JD:178:THR:N	2.46	0.48
3:JD:318:ARG:C	3:JD:321:MET:HE1	2.38	0.48
4:JE:2:ARG:HA	4:JE:133:GLN:HE22	1.77	0.48
3:JF:52:ASN:ND2	3:JF:62:ARG:HD3	2.28	0.48
3:JF:176:SER:O	3:JF:178:THR:N	2.46	0.48
3:JF:206:ALA:O	3:JF:210:ILE:HG12	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:JG:274:PRO:HG3	4:JG:374:ALA:HA	1.96	0.48
4:JI:154:MET:HE3	4:JI:194:THR:HG22	1.94	0.48
3:JJ:156:ARG:NE	3:JJ:164:MET:HE3	2.29	0.48
3:JJ:163:ILE:HD11	3:JJ:251:ARG:HG3	1.95	0.48
3:JJ:176:SER:O	3:JJ:178:THR:N	2.46	0.48
3:JJ:380:ARG:O	3:JJ:384:GLN:HG2	2.13	0.48
4:JK:415:GLU:OE1	4:JK:419:SER:OG	2.30	0.48
21:K2:23:GLN:HG2	21:K2:24:ALA:N	2.28	0.48
4:KA:81:GLY:HA2	32:S:368:HIS:NE2	2.28	0.48
3:KB:73:MET:HB2	3:KB:90:PHE:CE1	2.49	0.48
3:KD:118:ASP:HA	3:KD:121:ARG:HG2	1.95	0.48
3:KD:152:ILE:HA	3:KD:155:ILE:HG12	1.95	0.48
4:KE:208:ALA:H	4:KE:304:LYS:NZ	2.07	0.48
4:KI:2:ARG:HA	4:KI:133:GLN:HE22	1.79	0.48
4:KI:424:ASP:O	4:KI:428:LEU:HG	2.14	0.48
22:L1:243:VAL:O	22:L1:246:LYS:N	2.44	0.48
22:L2:50:GLY:O	3:MD:306:ARG:NH1	2.46	0.48
22:L2:145:TYR:OH	4:MG:393:HIS:ND1	2.46	0.48
22:L4:46:MET:HA	22:L4:49:MET:HE1	1.94	0.48
4:LC:281:ALA:HB3	4:LC:370:LYS:HZ3	1.77	0.48
4:LE:1:MET:O	4:LE:133:GLN:NE2	2.40	0.48
4:LE:115:VAL:HG21	4:LE:156:ARG:HD3	1.95	0.48
3:LF:152:ILE:HA	3:LF:155:ILE:HG12	1.95	0.48
3:LH:156:ARG:CZ	3:LH:164:MET:HE3	2.44	0.48
3:LJ:250:LEU:HD13	3:LJ:253:LEU:HD12	1.95	0.48
4:MC:68:VAL:HA	4:MC:93:ILE:HB	1.95	0.48
4:MC:102:ASN:HD22	4:MC:105:ARG:HG3	1.78	0.48
4:ME:154:MET:HE1	4:ME:197:HIS:HB2	1.94	0.48
3:MJ:31:ASP:OD1	3:MJ:35:THR:N	2.46	0.48
4:MK:51:THR:OG1	4:MK:242:LEU:HD21	2.14	0.48
4:MM:327:ASP:OD1	4:MM:328:VAL:N	2.46	0.48
3:NB:2:ARG:HA	3:NB:129:CYS:O	2.13	0.48
3:NB:317:PHE:HB3	3:NB:321:MET:HE3	1.95	0.48
3:NB:379:LYS:NZ	3:NB:383:GLU:OE2	2.46	0.48
4:NC:75:VAL:HG22	4:NC:79:ARG:HH21	1.77	0.48
3:ND:415:MET:O	3:ND:419:VAL:HG23	2.13	0.48
4:NE:223:THR:OG1	4:NE:225:THR:OG1	2.23	0.48
3:NF:81:PHE:O	3:NF:84:ILE:HG22	2.13	0.48
28:O2:38:TYR:CE1	30:Q2:1418:MET:HG3	2.47	0.48
4:OA:104:ALA:HB1	4:OA:108:TYR:CD2	2.49	0.48
4:OA:168:GLU:HB2	4:OA:201:ALA:HA	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:OA:223:THR:OG1	4:OA:225:THR:OG1	2.22	0.48
3:OD:99:ASN:OD1	3:OD:142:GLY:HA3	2.13	0.48
4:OE:145:THR:OG1	39:OE:501:GTP:O1B	2.30	0.48
3:OF:178:THR:HB	3:OF:181:GLU:HB2	1.94	0.48
4:OG:113:GLU:N	4:OG:113:GLU:OE1	2.46	0.48
3:OH:7:LEU:HD13	3:OH:64:VAL:HB	1.95	0.48
3:OH:223:GLY:O	3:OH:227:HIS:N	2.39	0.48
4:OI:399:TYR:OH	4:OI:415:GLU:HB2	2.13	0.48
3:OJ:415:MET:O	3:OJ:419:VAL:HG23	2.14	0.48
39:OJ:501:GTP:O3G	39:OJ:501:GTP:O3'	2.19	0.48
4:OK:36:MET:HG3	4:OK:41:THR:OG1	2.12	0.48
4:OK:271:THR:N	4:OK:377:MET:O	2.46	0.48
3:OL:2:ARG:HA	3:OL:129:CYS:O	2.12	0.48
3:OL:156:ARG:NH1	3:OL:195:ASN:O	2.46	0.48
29:P1:170:ARG:NH2	29:P1:172:GLU:OE1	2.43	0.48
29:P1:489:ASP:HB2	29:P1:496:ASN:OD1	2.13	0.48
29:P2:383:MET:HE1	29:P2:425:THR:HB	1.96	0.48
29:P3:115:GLU:N	29:P3:129:LEU:O	2.44	0.48
29:P3:354:LYS:HZ3	29:P3:374:ASN:H	1.60	0.48
4:PA:273:ALA:N	4:PA:377:MET:HE1	2.28	0.48
3:PD:289:LEU:HD21	3:PD:363:MET:HB3	1.95	0.48
4:PE:230:LEU:O	4:PE:234:ILE:HG12	2.12	0.48
3:PF:421:GLU:HA	3:PF:424:GLN:CD	2.37	0.48
4:PG:173:PRO:HB2	4:PG:390:ARG:HH22	1.78	0.48
3:PJ:6:HIS:HB3	3:PJ:21:TRP:HZ2	1.78	0.48
4:PM:154:MET:HE3	4:PM:194:THR:HG22	1.95	0.48
4:PM:402:ARG:HB2	4:PM:405:VAL:HG11	1.95	0.48
30:Q2:1342:GLU:HG2	30:Q2:1345:ARG:HH21	1.77	0.48
30:Q3:1414:LEU:CA	30:Q3:1418:MET:HE3	2.43	0.48
3:QB:32:PRO:C	3:QB:83:GLN:HE21	2.21	0.48
3:QB:87:PRO:HA	3:QB:90:PHE:CD2	2.47	0.48
4:QC:9:VAL:HA	4:QC:68:VAL:HG23	1.95	0.48
3:QD:324:LYS:HD3	4:QE:210:TYR:CE1	2.48	0.48
4:QE:301:GLN:OE1	4:QE:301:GLN:N	2.46	0.48
3:QF:6:HIS:HB3	3:QF:21:TRP:HZ2	1.77	0.48
3:QH:268:PRO:HD2	3:QH:301:ALA:HB2	1.95	0.48
3:QH:285:THR:O	3:QH:288:GLU:HG3	2.13	0.48
4:QI:280:LYS:HZ2	4:QI:283:HIS:CE1	2.31	0.48
4:QI:391:LEU:O	4:QI:395:PHE:N	2.44	0.48
4:QI:392:ASP:OD1	4:QI:393:HIS:N	2.46	0.48
3:QJ:151:LEU:HD22	3:QJ:154:LYS:HZ1	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:QK:397:LEU:O	4:QK:401:LYS:HE2	2.12	0.48
3:QL:328:GLU:OE2	3:QL:329:GLN:NE2	2.46	0.48
4:QM:139:HIS:CD2	4:QM:170:ALA:HB2	2.48	0.48
4:RC:210:TYR:CE1	4:RC:227:LEU:HD21	2.49	0.48
4:RC:351:PHE:CZ	3:RD:175:VAL:HG22	2.48	0.48
3:RD:269:GLY:HA2	3:RD:300:MET:HE1	1.95	0.48
4:RE:256:GLN:O	4:RE:260:VAL:HG12	2.13	0.48
3:RJ:12:CYS:HB3	39:RJ:501:GTP:H5'	1.95	0.48
4:RK:42:ILE:HG12	4:RK:55:GLU:OE2	2.12	0.48
3:RL:68:LEU:HD12	3:RL:97:ALA:HB2	1.95	0.48
3:RL:392:LYS:HB2	3:RL:395:LEU:HD13	1.94	0.48
4:SE:1:MET:O	4:SE:133:GLN:NE2	2.39	0.48
4:SE:245:ASP:O	4:SE:356:ASN:ND2	2.47	0.48
4:SE:288:VAL:O	4:SE:292:THR:OG1	2.18	0.48
4:SG:210:TYR:OH	4:SG:221:ARG:NH2	2.43	0.48
4:SG:287:SER:N	4:SG:290:GLU:OE2	2.47	0.48
3:SH:12:CYS:SG	3:SH:13:GLY:N	2.86	0.48
4:SI:105:ARG:HE	4:SI:411:GLU:HG2	1.77	0.48
4:SI:143:GLY:O	4:SI:147:SER:OG	2.21	0.48
4:SI:143:GLY:HA3	4:SI:147:SER:H	1.79	0.48
4:SK:392:ASP:O	4:SK:396:ASP:N	2.37	0.48
3:SL:313:VAL:HG23	3:SL:349:VAL:HA	1.95	0.48
3:TD:81:PHE:O	3:TD:84:ILE:HG22	2.13	0.48
3:TD:141:GLY:HA3	39:TD:501:GTP:H5"	1.95	0.48
4:TE:30:ILE:HG13	4:TE:53:PHE:HE2	1.79	0.48
4:TE:46:ASP:HA	4:TE:50:ASN:HB3	1.94	0.48
3:TF:290:THR:HG21	3:TF:329:GLN:HG3	1.94	0.48
3:TF:305:PRO:HB2	3:TF:310:TYR:HE1	1.77	0.48
4:TG:47:ASP:HB3	4:TG:49:PHE:CE2	2.49	0.48
3:TH:19:LYS:NZ	3:TH:223:GLY:O	2.45	0.48
3:TL:114:ASP:OD1	3:TL:115:SER:N	2.47	0.48
3:TL:175:VAL:HG22	3:TL:177:ASP:H	1.79	0.48
33:U:313:ALA:O	33:U:317:ARG:HG2	2.13	0.48
33:U:513:ARG:O	33:U:517:ILE:HG12	2.13	0.48
4:UC:49:PHE:CE1	4:UC:55:GLU:HB3	2.48	0.48
3:UF:304:ASP:O	3:UF:307:HIS:ND1	2.46	0.48
4:UG:152:LEU:O	4:UG:156:ARG:NH1	2.46	0.48
4:UI:21:TRP:NE1	4:UI:63:PRO:HB3	2.28	0.48
4:UI:105:ARG:O	4:UI:109:THR:OG1	2.22	0.48
3:UL:4:ILE:HB	3:UL:50:TYR:CE1	2.49	0.48
3:UL:239:CYS:SG	3:UL:316:VAL:HG11	2.53	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UL:345:ILE:HD12	3:UL:346:PRO:HD2	1.94	0.48
4:VA:207:GLU:HB2	4:VA:304:LYS:NZ	2.28	0.48
3:VB:267:MET:O	3:VB:369:GLY:N	2.39	0.48
4:VC:371:VAL:HG11	4:VC:374:ALA:HB2	1.96	0.48
4:VE:72:PRO:HA	4:VE:75:VAL:HG12	1.95	0.48
3:VJ:151:LEU:O	3:VJ:155:ILE:HG12	2.13	0.48
3:WB:150:LEU:O	3:WB:153:SER:OG	2.23	0.48
3:WB:176:SER:O	3:WB:178:THR:N	2.46	0.48
4:WE:52:PHE:HZ	4:WE:239:THR:HB	1.79	0.48
4:WE:274:PRO:HG3	4:WE:374:ALA:HA	1.94	0.48
3:WH:11:GLN:HG3	39:WH:501:GTP:PA	2.53	0.48
3:WJ:350:LYS:HE3	4:WK:181:VAL:H	1.78	0.48
3:WL:3:GLU:OE2	3:WL:129:CYS:N	2.46	0.48
34:XB:11:LEU:HB2	34:XB:167:PHE:HB2	1.95	0.48
35:XJ:188:ASN:ND2	35:XJ:206:GLY:H	2.10	0.48
35:XK:96:PHE:CE2	35:XK:115:ILE:HG13	2.48	0.48
37:YF:26:ILE:HD12	37:YF:134:TYR:HE1	1.78	0.48
37:YO:4:VAL:HG21	37:YO:82:HIS:ND1	2.29	0.48
37:YQ:124:HIS:O	37:YQ:124:HIS:ND1	2.46	0.48
1:A:258:LYS:O	1:A:262:GLU:HG2	2.13	0.48
2:A2:214:LEU:O	2:A2:218:LEU:HG	2.13	0.48
4:AC:3:GLU:CD	4:AC:132:LEU:H	2.21	0.48
4:AC:52:PHE:HZ	4:AC:239:THR:HB	1.77	0.48
3:AD:152:ILE:O	3:AD:156:ARG:HG2	2.14	0.48
3:AD:250:LEU:HD13	3:AD:253:LEU:HD12	1.95	0.48
4:AG:301:GLN:OE1	4:AG:301:GLN:N	2.46	0.48
4:AK:196:GLU:HG2	4:AK:197:HIS:ND1	2.28	0.48
4:AK:301:GLN:OE1	4:AK:301:GLN:N	2.47	0.48
3:AL:415:MET:O	3:AL:419:VAL:HG23	2.13	0.48
4:AM:85:GLN:OE1	4:AM:85:GLN:N	2.34	0.48
4:AM:287:SER:N	4:AM:290:GLU:OE2	2.44	0.48
5:B1:272:MET:HB3	5:B1:384:LEU:HD21	1.94	0.48
5:B2:73:ARG:O	5:B2:77:THR:HG23	2.14	0.48
5:B6:153:GLU:O	5:B6:156:SER:OG	2.27	0.48
5:B6:196:SER:HB2	5:B6:199:ILE:HG23	1.95	0.48
5:B7:280:LYS:HA	5:B7:283:GLU:HG3	1.95	0.48
5:B8:70:THR:O	5:B8:73:ARG:HG2	2.14	0.48
5:B8:193:ASN:O	5:B8:196:SER:OG	2.29	0.48
3:BB:268:PRO:HD2	3:BB:301:ALA:HB2	1.94	0.48
3:BB:306:ARG:O	3:BB:306:ARG:NE	2.42	0.48
3:BJ:316:VAL:N	3:BJ:366:THR:O	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:340:PHE:HZ	6:C:373:VAL:HG11	1.78	0.48
7:C2:129:GLN:O	7:C2:133:GLN:HG2	2.13	0.48
7:C2:295:SER:HA	7:C2:300:TRP:CZ2	2.47	0.48
7:C3:160:ILE:HG22	7:C3:258:LEU:HD12	1.95	0.48
7:C8:142:SER:HB2	7:C9:419:ARG:CZ	2.43	0.48
3:CB:342:VAL:HG23	3:CB:345:ILE:HG22	1.96	0.48
3:CB:372:THR:HB	3:CB:375:GLN:HE22	1.79	0.48
3:CD:350:LYS:HE3	4:CE:180:ALA:HA	1.95	0.48
3:CF:217:LEU:HD11	3:CF:220:PRO:HB3	1.96	0.48
4:CG:145:THR:OG1	39:CG:501:GTP:O1B	2.29	0.48
4:CG:286:LEU:HD11	4:CG:373:ARG:H	1.78	0.48
4:CI:219:ILE:HG23	15:H4:33:ASN:HB2	1.94	0.48
3:CJ:176:SER:O	3:CJ:178:THR:N	2.46	0.48
3:CL:166:THR:OG1	3:CL:198:GLU:O	2.25	0.48
4:CM:2:ARG:HA	4:CM:133:GLN:HE22	1.79	0.48
7:Cb:399:ARG:HE	7:Cc:274:LEU:CD1	2.27	0.48
7:Cc:144:GLN:HA	11:Ff:140:ARG:CZ	2.43	0.48
7:Cd:247:ASP:O	7:Cd:251:GLN:HG3	2.14	0.48
8:D1:26:GLU:HA	8:D1:29:VAL:HG12	1.95	0.48
8:D2:142:LEU:O	8:D2:145:THR:OG1	2.29	0.48
8:D8:322:LEU:HD13	8:D8:412:LEU:HD22	1.96	0.48
4:DA:166:LYS:N	4:DA:199:ASP:OD2	2.46	0.48
3:DB:318:ARG:C	3:DB:321:MET:HE1	2.37	0.48
3:DD:216:LYS:HB3	3:DD:276:ARG:NH2	2.28	0.48
4:DE:3:GLU:N	4:DE:133:GLN:OE1	2.46	0.48
4:DE:20:CYS:O	4:DE:24:TYR:N	2.30	0.48
4:DG:187:SER:O	4:DG:190:THR:OG1	2.28	0.48
3:DH:229:VAL:C	3:DH:233:MET:HE3	2.38	0.48
3:DH:229:VAL:O	3:DH:233:MET:HE3	2.14	0.48
3:DH:262:ARG:NH2	3:DH:425:TYR:OH	2.42	0.48
4:DI:263:PRO:HB2	4:DI:264:ARG:NH1	2.29	0.48
3:DJ:14:ASN:ND2	3:DJ:67:ASP:OD2	2.46	0.48
3:DJ:139:LEU:N	3:DJ:168:SER:OG	2.45	0.48
3:DJ:269:GLY:HA3	3:DJ:367:PHE:HB3	1.96	0.48
3:DJ:290:THR:HG21	3:DJ:329:GLN:HB3	1.95	0.48
3:DL:197:ASP:OD1	3:DL:198:GLU:N	2.47	0.48
3:DL:378:PHE:HE1	3:DL:419:VAL:HG13	1.78	0.48
10:E3:7:GLU:OE2	10:E3:7:GLU:N	2.45	0.48
4:EA:265:ILE:HD12	4:EA:432:TYR:CE1	2.48	0.48
3:EB:51:TYR:CD1	3:EB:61:PRO:HA	2.49	0.48
3:ED:176:SER:O	3:ED:178:THR:N	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EE:53:PHE:O	4:EE:64:ARG:NH1	2.46	0.48
3:EF:309:ARG:H	3:EF:372:THR:HG1	1.57	0.48
3:EH:3:GLU:OE2	3:EH:129:CYS:N	2.46	0.48
4:EI:88:HIS:CD2	4:FI:280:LYS:HZ3	2.31	0.48
4:EI:230:LEU:O	4:EI:234:ILE:HG12	2.13	0.48
3:EJ:141:GLY:HA3	39:EJ:501:GTP:O2A	2.13	0.48
3:EJ:215:LEU:HD11	3:EJ:228:LEU:HD11	1.94	0.48
3:EJ:259:PRO:HD2	3:EJ:263:LEU:HD12	1.94	0.48
4:EK:319:TYR:N	4:EK:354:GLY:O	2.47	0.48
11:F1:318:ARG:NH2	11:F1:319:GLU:OE1	2.46	0.48
11:F1:426:THR:CG2	11:F2:127:LYS:HE2	2.40	0.48
11:F2:122:ARG:O	11:F2:125:GLN:NE2	2.46	0.48
11:F2:251:GLU:HA	11:F2:254:ILE:HG22	1.95	0.48
11:F3:325:PHE:O	11:F3:328:LEU:HG	2.13	0.48
11:F5:177:LEU:HD21	11:F5:233:ALA:HB2	1.96	0.48
11:F5:279:PHE:HA	11:F6:393:GLN:HE22	1.78	0.48
11:F6:96:ASP:OD1	11:F6:96:ASP:N	2.45	0.48
11:F6:136:GLU:OE2	11:Fb:147:SER:HB2	2.14	0.48
11:F7:100:ASP:OD2	11:F7:104:ARG:NH2	2.32	0.48
11:F7:428:GLN:HA	11:F7:431:LYS:HG2	1.95	0.48
4:FA:88:HIS:HE1	4:FA:90:GLU:OE2	1.96	0.48
4:FA:196:GLU:OE1	4:FA:196:GLU:N	2.35	0.48
4:FA:271:THR:HB	4:FA:377:MET:HE2	1.95	0.48
3:FB:130:LEU:HB2	3:FB:162:ARG:HH11	1.77	0.48
4:FC:165:SER:C	4:FC:166:LYS:HD2	2.38	0.48
3:FD:103:LYS:O	3:FD:108:GLU:HG2	2.13	0.48
4:FE:74:VAL:O	4:FE:77:GLU:HG3	2.14	0.48
4:FG:36:MET:HG3	4:FG:41:THR:OG1	2.13	0.48
4:FG:192:HIS:CE1	4:FG:193:THR:HG23	2.49	0.48
3:FH:322:SER:OG	3:FH:323:MET:SD	2.70	0.48
3:FH:324:LYS:HD3	4:FI:210:TYR:HE1	1.79	0.48
3:FJ:420:SER:O	3:FJ:423:GLN:NE2	2.45	0.48
4:FK:269:LEU:HD11	4:FK:384:ILE:HG21	1.95	0.48
11:Fb:396:LEU:HB2	11:Fb:416:LEU:HD21	1.95	0.48
11:Fb:406:GLU:HA	11:Fc:296:TRP:CZ3	2.48	0.48
11:Fc:105:ASN:OD1	11:Fc:106:ALA:N	2.46	0.48
11:Ff:449:SER:O	11:Ff:452:GLU:HG3	2.14	0.48
11:Fk:447:THR:O	11:Fk:451:LEU:HG	2.14	0.48
11:Fk:471:SER:HA	11:Fk:474:LYS:HG2	1.94	0.48
11:Fl:450:ARG:C	11:Fl:453:HIS:HD1	2.20	0.48
13:G1:157:ASN:HB3	13:G1:159:MET:SD	2.53	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:G3:522:GLN:OE1	13:G3:522:GLN:N	2.38	0.48
14:G4:79:LEU:O	14:G4:105:TYR:HA	2.13	0.48
14:G4:420:LYS:NZ	14:G4:458:LEU:O	2.40	0.48
14:G4:606:TYR:HD2	14:G4:738:PHE:HD1	1.60	0.48
14:G4:734:ARG:HG3	14:G4:735:TYR:N	2.28	0.48
14:G5:23:SER:OG	14:G5:41:PRO:O	2.29	0.48
14:G5:386:ILE:HG22	14:G5:387:GLU:H	1.78	0.48
4:GA:10:GLY:HA2	4:GA:145:THR:OG1	2.13	0.48
4:GA:320:ARG:HA	4:GA:356:ASN:HB3	1.95	0.48
4:GC:166:LYS:N	4:GC:199:ASP:OD2	2.45	0.48
4:GC:287:SER:N	4:GC:290:GLU:OE2	2.45	0.48
4:GE:188:ILE:HG22	4:GE:421:ALA:HB1	1.94	0.48
3:GJ:12:CYS:SG	3:GJ:13:GLY:N	2.85	0.48
3:GJ:247:ASN:CB	3:GJ:252:LYS:HG2	2.43	0.48
3:GJ:261:PRO:O	3:GJ:264:HIS:NE2	2.47	0.48
4:GK:297:GLU:CD	4:GK:299:ALA:H	2.21	0.48
15:H2:13:GLU:HG3	15:H2:14:PRO:HA	1.94	0.48
15:H2:291:SER:HB3	15:H2:315:ARG:HH11	1.78	0.48
4:HA:5:ILE:HD13	4:HA:64:ARG:HB3	1.96	0.48
3:HB:209:ASP:O	3:HB:213:ARG:HG2	2.14	0.48
4:HC:346:TRP:CH2	4:HC:435:VAL:HA	2.48	0.48
4:HE:331:ALA:O	4:HE:334:THR:OG1	2.27	0.48
3:HF:252:LYS:O	3:HF:256:ASN:ND2	2.46	0.48
3:HF:324:LYS:HE2	4:HG:222:PRO:CD	2.43	0.48
4:HG:113:GLU:OE1	4:HG:113:GLU:N	2.44	0.48
4:HG:265:ILE:HD11	4:HG:384:ILE:HD11	1.96	0.48
3:HH:87:PRO:HA	3:HH:90:PHE:CD2	2.48	0.48
3:HH:206:ALA:O	3:HH:210:ILE:HD12	2.13	0.48
3:HJ:4:ILE:HB	3:HJ:50:TYR:CE1	2.48	0.48
4:HK:9:VAL:HG11	4:HK:150:ALA:HB2	1.96	0.48
4:HK:333:ALA:HA	4:HK:336:LYS:HD2	1.95	0.48
3:HL:254:ALA:HA	3:HL:257:MET:HG2	1.95	0.48
16:I:96:MET:HE3	4:JC:82:THR:CB	2.41	0.48
3:IB:250:LEU:O	3:IB:254:ALA:N	2.32	0.48
4:IC:144:GLY:N	39:IC:501:GTP:O2B	2.46	0.48
4:IC:324:VAL:HG21	3:ID:219:THR:HG22	1.96	0.48
3:IF:178:THR:HB	3:IF:181:GLU:HB2	1.95	0.48
3:IF:208:TYR:CE1	3:IF:225:LEU:HD21	2.49	0.48
4:II:256:GLN:O	4:II:260:VAL:HG12	2.14	0.48
4:II:405:VAL:O	4:II:409:VAL:HG22	2.12	0.48
4:IM:115:VAL:HG21	4:IM:156:ARG:HD3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:IM:230:LEU:O	4:IM:234:ILE:HG12	2.14	0.48
19:J1:29:PHE:CE1	19:J1:100:ARG:HG3	2.47	0.48
3:JB:300:MET:SD	3:JB:300:MET:N	2.86	0.48
3:JD:309:ARG:NE	3:JD:426:GLN:HE21	2.04	0.48
3:JD:376:GLU:HA	3:JD:379:LYS:HE3	1.94	0.48
4:JI:118:VAL:HA	4:JI:121:ARG:HG2	1.95	0.48
4:JI:216:ASN:ND2	4:JI:275:VAL:O	2.46	0.48
4:JI:220:GLU:O	4:JI:221:ARG:NE	2.42	0.48
4:JK:154:MET:HA	4:JK:157:LEU:HG	1.94	0.48
21:K3:340:MET:HE1	21:K3:458:TYR:HA	1.95	0.48
21:K3:476:GLN:HA	21:K3:479:ARG:NH1	2.28	0.48
21:K4:185:ARG:NE	21:K4:189:GLU:HG3	2.29	0.48
21:K4:189:GLU:CG	21:K4:190:LYS:H	2.23	0.48
3:KB:152:ILE:HD12	3:KB:195:ASN:HB2	1.94	0.48
3:KD:250:LEU:HD13	3:KD:253:LEU:HD12	1.95	0.48
4:KE:47:ASP:HB3	4:KE:49:PHE:CE2	2.48	0.48
4:KE:102:ASN:HB3	4:KE:105:ARG:HB2	1.95	0.48
4:KE:178:SER:OG	4:KE:180:ALA:O	2.31	0.48
3:KF:12:CYS:O	3:KF:16:ILE:HG12	2.14	0.48
4:KG:363:VAL:HG12	4:KG:368:LEU:HD22	1.96	0.48
4:KG:390:ARG:HA	4:KG:393:HIS:CD2	2.49	0.48
3:KH:102:ALA:O	3:KH:106:TYR:N	2.44	0.48
3:KH:403:MET:HE1	3:KH:407:GLU:HB2	1.95	0.48
4:KI:90:GLU:HG2	4:KI:121:ARG:CZ	2.44	0.48
4:KK:271:THR:HB	4:KK:377:MET:HB3	1.95	0.48
3:KL:1:MET:HE1	3:KL:49:VAL:HA	1.95	0.48
20:L:178:LYS:HE3	20:L:238:PHE:O	2.13	0.48
22:L3:100:GLN:OE1	3:LJ:416:ASN:ND2	2.46	0.48
22:L4:26:ARG:O	22:L4:28:THR:HG23	2.14	0.48
4:LA:2:ARG:NH1	4:LA:241:SER:O	2.47	0.48
4:LA:8:HIS:CE1	4:LA:21:TRP:HH2	2.32	0.48
4:LA:318:LEU:HD13	4:LA:354:GLY:HA3	1.95	0.48
4:LC:431:ASP:O	4:LC:435:VAL:HG22	2.14	0.48
3:LD:390:ARG:NH1	31:R1:252:PRO:HG2	2.27	0.48
4:LE:260:VAL:HG23	4:LE:265:ILE:O	2.13	0.48
4:LE:409:VAL:HA	4:LE:413:MET:O	2.14	0.48
3:LF:331:LEU:HD21	4:LG:177:VAL:HG22	1.94	0.48
4:LG:90:GLU:HG2	4:LG:121:ARG:NH2	2.29	0.48
3:LH:176:SER:O	3:LH:178:THR:N	2.47	0.48
3:LJ:12:CYS:HB3	39:LJ:501:GTP:O4'	2.13	0.48
3:LL:166:THR:OG1	3:LL:198:GLU:O	2.25	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LL:239:CYS:SG	3:LL:316:VAL:HG11	2.54	0.48
3:LL:316:VAL:N	3:LL:366:THR:O	2.41	0.48
3:MD:337:ASN:HA	3:MD:340:TYR:CE1	2.48	0.48
3:MF:166:THR:OG1	3:MF:198:GLU:O	2.26	0.48
4:MG:154:MET:HE1	4:MG:197:HIS:HB2	1.95	0.48
3:MH:51:TYR:CD1	3:MH:61:PRO:HA	2.49	0.48
4:MK:351:PHE:CE1	3:ML:175:VAL:HG23	2.48	0.48
3:ML:383:GLU:O	3:ML:387:ALA:N	2.46	0.48
4:NA:260:VAL:O	3:NB:397:TRP:HH2	1.96	0.48
3:ND:77:ARG:HD3	3:ND:90:PHE:HE2	1.78	0.48
4:NE:213:CYS:O	4:NE:218:ASP:N	2.46	0.48
4:NG:319:TYR:HB2	4:NG:355:ILE:HD13	1.95	0.48
4:NG:433:GLU:O	4:NG:437:VAL:N	2.38	0.48
3:NH:120:VAL:O	3:NH:124:ALA:N	2.40	0.48
4:NI:119:LEU:HD23	4:NI:122:ILE:HD11	1.95	0.48
4:NK:206:ASN:HA	4:NK:209:ILE:HD12	1.96	0.48
3:NL:81:PHE:O	3:NL:84:ILE:HG22	2.13	0.48
3:NL:268:PRO:HD2	3:NL:301:ALA:HB2	1.95	0.48
28:O2:92:LEU:O	28:O2:96:ILE:HG12	2.13	0.48
4:OE:271:THR:HB	4:OE:377:MET:HB2	1.93	0.48
3:OF:217:LEU:HD11	3:OF:220:PRO:HB3	1.96	0.48
4:OK:113:GLU:N	4:OK:113:GLU:OE1	2.46	0.48
29:P2:354:LYS:HZ3	29:P2:374:ASN:H	1.61	0.48
29:P2:381:ASP:OD2	29:P2:425:THR:N	2.44	0.48
4:PC:113:GLU:OE1	4:PC:113:GLU:N	2.47	0.48
3:PD:285:THR:O	3:PD:288:GLU:HG3	2.14	0.48
4:PE:35:GLN:HG2	4:PE:59:GLY:O	2.13	0.48
4:PE:154:MET:HE1	4:PE:197:HIS:HB2	1.96	0.48
3:PF:46:ARG:HH22	4:PG:73:THR:HA	1.79	0.48
4:PG:135:PHE:CE2	4:PG:164:LYS:HD2	2.49	0.48
4:PG:333:ALA:HA	4:PG:336:LYS:HD2	1.96	0.48
4:PI:104:ALA:HA	4:PI:107:HIS:HB3	1.96	0.48
3:PJ:132:GLY:HA3	3:PJ:163:ILE:H	1.78	0.48
3:PJ:239:CYS:HB3	3:PJ:248:ALA:HB1	1.95	0.48
4:PK:229:ARG:NH1	4:PK:233:GLN:HB2	2.28	0.48
3:PL:73:MET:HA	3:PL:76:VAL:HG22	1.94	0.48
4:PM:88:HIS:CE1	4:PM:121:ARG:HH22	2.30	0.48
30:Q3:1468:LEU:HB3	30:Q3:1504:LYS:HB2	1.95	0.48
3:QB:143:THR:HG22	3:QB:147:MET:HE1	1.94	0.48
4:QE:35:GLN:HG2	4:QE:59:GLY:O	2.13	0.48
3:QF:149:THR:HG21	3:QF:188:SER:HA	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QF:379:LYS:HE2	3:QF:379:LYS:HA	1.96	0.48
3:QH:182:PRO:HA	3:QH:381:ILE:HD11	1.94	0.48
3:QH:253:LEU:HB3	3:QH:257:MET:HE1	1.94	0.48
4:QI:116:ASP:N	4:QI:116:ASP:OD1	2.45	0.48
4:QI:321:GLY:N	4:QI:356:ASN:O	2.28	0.48
4:QK:264:ARG:O	4:QK:266:HIS:ND1	2.45	0.48
3:QL:201:CYS:HB2	3:QL:267:MET:HE1	1.94	0.48
31:R1:260:ALA:HB1	31:R1:264:HIS:HE1	1.79	0.48
4:RG:188:ILE:HG22	4:RG:421:ALA:HB1	1.96	0.48
4:RI:88:HIS:CE1	4:RI:121:ARG:HH22	2.32	0.48
3:RL:217:LEU:HD11	3:RL:220:PRO:HB3	1.94	0.48
4:SC:272:TYR:CZ	4:SC:274:PRO:HG2	2.48	0.48
3:SD:379:LYS:O	3:SD:382:SER:OG	2.20	0.48
3:SF:234:SER:O	3:SF:238:THR:HG23	2.14	0.48
4:SG:116:ASP:N	4:SG:116:ASP:OD1	2.45	0.48
3:SH:214:THR:HG23	3:SH:215:LEU:HD12	1.95	0.48
4:SI:2:ARG:NH1	4:SI:241:SER:O	2.46	0.48
4:SI:11:GLN:O	4:SI:14:VAL:HG22	2.12	0.48
4:SI:269:LEU:HD11	4:SI:384:ILE:HG21	1.94	0.48
4:TC:214:ARG:NH1	4:TC:215:ARG:HG3	2.28	0.48
3:TF:7:LEU:HD13	3:TF:64:VAL:HB	1.94	0.48
3:TH:189:VAL:HA	3:TH:192:LEU:HD12	1.94	0.48
4:TI:22:GLU:O	4:TI:26:LEU:HD23	2.14	0.48
3:TJ:197:ASP:OD1	3:TJ:198:GLU:N	2.47	0.48
4:TK:161:TYR:HB3	4:TK:164:LYS:NZ	2.28	0.48
4:TK:178:SER:OG	4:TK:180:ALA:O	2.31	0.48
33:U:304:ARG:HA	33:U:307:GLU:HB2	1.95	0.48
4:UA:260:VAL:O	3:UB:397:TRP:HH2	1.95	0.48
3:UB:217:LEU:HD11	3:UB:220:PRO:HB3	1.96	0.48
4:UE:88:HIS:HB3	4:UE:91:GLN:HB2	1.95	0.48
3:UF:11:GLN:HG3	39:UF:501:GTP:PA	2.53	0.48
3:UF:30:ILE:HG22	3:UF:31:ASP:O	2.13	0.48
3:UF:87:PRO:HA	3:UF:90:PHE:CD2	2.47	0.48
3:UF:234:SER:O	3:UF:238:THR:HG23	2.14	0.48
3:UH:217:LEU:HD11	3:UH:220:PRO:HB3	1.94	0.48
3:UH:282:ARG:HE	3:UH:288:GLU:CD	2.22	0.48
4:UI:161:TYR:O	4:UI:166:LYS:NZ	2.38	0.48
4:UK:113:GLU:OE1	4:UK:113:GLU:N	2.44	0.48
4:UK:257:THR:HA	3:UL:397:TRP:CZ2	2.48	0.48
4:UK:427:ALA:HA	4:UK:430:LYS:HG2	1.95	0.48
3:UL:192:LEU:O	3:UL:196:THR:HG22	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:V:519:LYS:HA	33:V:522:LEU:HD12	1.95	0.48
33:V:537:GLU:HA	33:V:540:ARG:HE	1.78	0.48
3:VD:398:TYR:HB3	3:VD:403:MET:HB2	1.95	0.48
3:VF:3:GLU:OE2	3:VF:127:CYS:HB2	2.13	0.48
3:VH:324:LYS:HE2	4:VI:222:PRO:HG2	1.95	0.48
4:VI:81:GLY:O	4:VI:84:ARG:NH1	2.46	0.48
4:VI:208:ALA:HA	4:VI:211:ASP:HB2	1.94	0.48
3:VJ:83:GLN:O	3:VJ:86:ARG:NH2	2.46	0.48
3:VJ:176:SER:O	3:VJ:178:THR:N	2.47	0.48
4:VK:102:ASN:HD22	4:VK:105:ARG:HG3	1.78	0.48
33:W:153:GLU:O	33:W:154:MET:HE2	2.11	0.48
4:WC:182:VAL:HA	4:WC:185:TYR:HD2	1.78	0.48
4:WE:204:VAL:HG23	4:WE:302:MET:HG3	1.95	0.48
4:WE:271:THR:HB	4:WE:377:MET:HE3	1.96	0.48
4:WE:311:LYS:HE3	4:WE:344:VAL:HG12	1.95	0.48
4:WE:406:HIS:HA	4:WE:409:VAL:HG22	1.95	0.48
4:WG:201:ALA:H	4:WG:266:HIS:HD2	1.62	0.48
3:WH:12:CYS:SG	3:WH:13:GLY:N	2.85	0.48
3:WJ:268:PRO:HD2	3:WJ:301:ALA:HB2	1.95	0.48
4:WK:254:GLU:O	4:WK:258:ASN:ND2	2.27	0.48
33:X:416:THR:HA	33:X:419:LYS:HE3	1.94	0.48
33:X:416:THR:HG22	33:X:419:LYS:HE3	1.94	0.48
34:XA:2:PHE:O	34:XA:5:THR:HG22	2.13	0.48
34:XA:92:GLN:HE21	34:XA:100:ARG:HB3	1.79	0.48
34:XD:92:GLN:HE21	34:XD:100:ARG:HB3	1.77	0.48
34:XD:113:ARG:HE	34:XD:114:VAL:H	1.61	0.48
34:XD:170:ARG:NH2	34:XD:176:GLU:OE2	2.47	0.48
34:XE:87:PHE:HB2	34:XE:159:ASN:O	2.14	0.48
37:YD:23:PHE:HB3	37:YD:124:HIS:HE1	1.78	0.48
37:YD:64:ARG:HA	37:YD:67:ILE:HG12	1.96	0.48
37:YF:153:ALA:O	37:YF:157:LYS:NZ	2.46	0.48
37:YG:136:GLY:O	37:YG:140:LEU:N	2.34	0.48
37:YI:25:PHE:HE1	37:YI:66:LEU:HA	1.79	0.48
37:YL:137:VAL:HG13	37:YL:138:VAL:HG13	1.95	0.48
37:YO:15:TYR:OH	37:YO:141:ILE:HG21	2.14	0.48
36:Z:371:ILE:HA	36:Z:374:TYR:CE2	2.48	0.48
1:A:249:GLN:O	1:A:253:ASP:N	2.43	0.48
2:A2:43:ARG:HH12	5:B4:44:ILE:N	2.11	0.48
2:A2:296:ILE:HD13	2:A2:362:LEU:HD22	1.96	0.48
3:AD:206:ALA:O	3:AD:210:ILE:HG12	2.13	0.48
4:AE:46:ASP:HA	4:AE:50:ASN:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AG:67:PHE:HB2	4:AG:92:LEU:HD13	1.96	0.48
4:AG:113:GLU:OE1	4:AG:113:GLU:N	2.47	0.48
3:AH:12:CYS:HA	3:AH:15:GLN:OE1	2.14	0.48
3:AJ:192:LEU:O	3:AJ:196:THR:HG22	2.13	0.48
4:AK:88:HIS:CE1	4:AK:90:GLU:HG2	2.49	0.48
3:AL:206:ALA:O	3:AL:210:ILE:HG12	2.14	0.48
4:AM:264:ARG:HH12	34:XG:116:PRO:HG2	1.78	0.48
5:B2:176:HIS:HA	5:B2:179:LYS:NZ	2.29	0.48
5:B2:296:ASP:OD2	5:B3:39:ARG:HD2	2.13	0.48
5:B3:258:ARG:O	5:B3:262:GLU:HG2	2.13	0.48
5:B3:363:LEU:HG	5:B3:367:PHE:HE2	1.77	0.48
5:B4:136:GLU:HG3	5:B4:261:THR:HG22	1.95	0.48
5:B6:115:GLU:OE2	7:C9:479:SER:OG	2.27	0.48
5:B7:90:ASP:CG	5:B7:94:GLN:HE22	2.21	0.48
5:B7:356:LEU:O	5:B7:360:GLN:HG2	2.14	0.48
3:BB:84:ILE:O	3:BB:86:ARG:NH1	2.46	0.48
3:BB:254:ALA:HA	3:BB:257:MET:HG2	1.95	0.48
3:BD:182:PRO:HB2	3:BD:388:MET:HE1	1.95	0.48
4:BE:246:GLY:HA2	4:BE:357:TYR:HD2	1.78	0.48
4:BG:208:ALA:H	4:BG:304:LYS:NZ	2.10	0.48
4:BG:256:GLN:O	4:BG:260:VAL:HG12	2.14	0.48
4:BG:423:GLU:HA	4:BG:426:ALA:HB3	1.96	0.48
3:BL:7:LEU:HD13	3:BL:64:VAL:HB	1.94	0.48
3:BL:239:CYS:SG	3:BL:248:ALA:HA	2.53	0.48
6:C:120:ASP:HB3	6:C:221:ARG:HB3	1.94	0.48
7:C2:392:PHE:O	7:C2:395:VAL:HG22	2.13	0.48
7:C2:403:ARG:HE	7:C2:417:GLN:NE2	2.12	0.48
7:C3:194:VAL:O	7:C3:197:GLU:HG3	2.14	0.48
7:C3:375:ILE:O	7:C3:379:ILE:HG12	2.13	0.48
7:C3:403:ARG:O	7:C3:406:ARG:NE	2.31	0.48
7:C6:183:ARG:O	7:C6:187:GLU:N	2.31	0.48
7:C6:299:THR:O	7:C6:302:LYS:HG2	2.13	0.48
3:CB:28:HIS:O	3:CB:43:GLN:NE2	2.47	0.48
3:CB:267:MET:O	3:CB:368:ILE:HD12	2.14	0.48
4:CC:192:HIS:CE1	4:CC:193:THR:HG23	2.48	0.48
4:CC:331:ALA:O	4:CC:334:THR:OG1	2.28	0.48
4:CG:287:SER:N	4:CG:290:GLU:OE2	2.46	0.48
3:CH:270:PHE:CG	3:CH:271:ALA:N	2.78	0.48
4:CI:165:SER:C	4:CI:166:LYS:HD2	2.39	0.48
4:CK:89:PRO:HD2	4:DI:280:LYS:NZ	2.28	0.48
3:CL:176:SER:O	3:CL:178:THR:N	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CM:165:SER:C	4:CM:166:LYS:HD2	2.39	0.48
4:CM:221:ARG:HG3	4:CM:221:ARG:HH11	1.78	0.48
7:Cc:157:LYS:HA	7:Cc:160:ILE:HG22	1.95	0.48
7:Cc:273:HIS:CD2	7:Cc:275:ARG:HH12	2.31	0.48
6:D:241:PHE:HB2	6:D:242:PRO:HD3	1.94	0.48
8:D3:370:ARG:HD2	8:D3:370:ARG:N	2.28	0.48
8:D7:176:LEU:O	8:D7:180:THR:HG23	2.13	0.48
8:D7:191:LYS:O	8:D7:194:ILE:HG22	2.13	0.48
8:D7:272:ARG:HH12	8:D7:273:LEU:HD23	1.79	0.48
3:DB:20:PHE:CE1	3:DB:24:ILE:HD11	2.48	0.48
4:DE:406:HIS:HA	4:DE:409:VAL:HG22	1.95	0.48
3:DF:258:VAL:HB	4:DG:407:TRP:HZ2	1.79	0.48
3:DH:87:PRO:HA	3:DH:90:PHE:CD2	2.48	0.48
4:DI:116:ASP:OD1	4:DI:117:LEU:N	2.46	0.48
4:DK:1:MET:HE1	4:DK:51:THR:HB	1.95	0.48
4:DK:245:ASP:HA	4:DK:249:ASN:HD21	1.79	0.48
3:DL:173:PRO:HA	3:DL:380:ARG:CZ	2.44	0.48
9:E:573:HIS:O	9:E:577:LYS:HG3	2.13	0.48
9:E:792:ARG:HH12	9:E:830:CYS:HA	1.78	0.48
4:EC:229:ARG:HH22	4:EC:367:ASP:H	1.60	0.48
4:EC:252:LEU:HA	4:EC:255:PHE:CD2	2.49	0.48
3:EF:4:ILE:HG12	3:EF:131:GLN:OE1	2.14	0.48
4:EG:9:VAL:HG11	4:EG:150:ALA:HB2	1.96	0.48
4:EG:286:LEU:HD11	4:EG:373:ARG:H	1.77	0.48
4:EG:416:GLY:O	4:EG:420:GLU:N	2.44	0.48
3:EJ:46:ARG:HH22	4:EK:73:THR:HG23	1.79	0.48
3:EJ:150:LEU:C	3:EJ:154:LYS:HZ3	2.21	0.48
11:F4:99:ASN:O	11:F4:103:ILE:HG12	2.14	0.48
11:F7:201:ARG:NH2	11:F7:207:VAL:H	2.11	0.48
11:F8:368:ILE:HG12	11:F8:444:LEU:HD13	1.96	0.48
3:FB:152:ILE:O	3:FB:156:ARG:HG2	2.14	0.48
3:FD:228:LEU:O	3:FD:232:THR:HG23	2.14	0.48
4:FE:154:MET:HE1	4:FE:197:HIS:HB2	1.95	0.48
4:FE:188:ILE:HG12	4:FE:425:LEU:HD11	1.95	0.48
3:FF:36:TYR:HE2	3:FF:44:LEU:HD13	1.77	0.48
3:FF:375:GLN:HA	3:FF:378:PHE:CE1	2.48	0.48
4:FG:71:GLU:OE2	4:FG:73:THR:OG1	2.29	0.48
4:FG:72:PRO:HA	4:FG:75:VAL:HG12	1.96	0.48
3:FH:346:PRO:HG2	4:FI:394:LYS:NZ	2.28	0.48
4:FK:54:SER:N	4:FK:62:VAL:O	2.46	0.48
11:Fa:96:ASP:OD1	11:Fa:97:ARG:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Ff:214:ASN:OD1	11:Ff:339:THR:OG1	2.30	0.48
11:Fk:158:TYR:CZ	11:Fk:162:ARG:HD3	2.48	0.48
11:Fk:211:VAL:HG13	11:Fk:339:THR:HG23	1.95	0.48
11:Fl:468:LYS:O	11:Fl:472:MET:HE3	2.13	0.48
11:Fm:378:LEU:O	11:Fm:382:ILE:HG12	2.14	0.48
12:G:79:VAL:HG23	32:T:346:ILE:HD12	1.96	0.48
13:G1:438:PHE:CE1	13:G1:453:GLU:HB2	2.48	0.48
13:G3:353:GLN:HA	13:G3:356:LYS:HD3	1.94	0.48
14:G4:42:GLY:HA3	14:G4:46:ASP:HB3	1.96	0.48
14:G5:550:GLN:O	14:G5:554:GLN:HG3	2.13	0.48
14:G6:171:ASP:O	14:G6:174:THR:OG1	2.21	0.48
14:G6:194:ASP:HB3	14:G6:197:MET:HB2	1.94	0.48
3:GD:39:ASP:OD1	3:GD:39:ASP:N	2.46	0.48
4:GE:10:GLY:O	4:GE:14:VAL:HG13	2.14	0.48
3:GF:34:GLY:C	3:GF:58:LYS:HG3	2.38	0.48
3:GF:117:LEU:HB3	3:GF:121:ARG:NH2	2.29	0.48
3:GH:385:PHE:HZ	3:GH:408:PHE:HB3	1.79	0.48
4:GI:180:ALA:HB1	4:GI:182:VAL:HG12	1.96	0.48
4:GI:265:ILE:HD13	4:GI:432:TYR:CE1	2.48	0.48
3:GJ:51:TYR:CD1	3:GJ:61:PRO:HA	2.49	0.48
3:GJ:271:ALA:HB3	3:GJ:365:ALA:H	1.78	0.48
4:GK:363:VAL:HG12	4:GK:368:LEU:HD22	1.94	0.48
3:GL:357:PRO:HB3	3:GL:362:LYS:HA	1.96	0.48
15:H2:13:GLU:H	15:H2:43:LEU:HD22	1.77	0.48
15:H2:227:ARG:HA	15:H2:230:TRP:CE3	2.47	0.48
15:H3:302:ASN:O	15:H3:306:ARG:HG3	2.14	0.48
15:H4:283:PRO:HA	15:H4:300:PHE:CD2	2.48	0.48
4:HA:394:LYS:HG3	4:HA:395:PHE:N	2.28	0.48
4:HC:265:ILE:HB	4:HC:432:TYR:HE1	1.78	0.48
4:HC:329:ASN:OD1	4:HC:330:ALA:N	2.46	0.48
3:HD:114:ASP:N	3:HD:114:ASP:OD1	2.45	0.48
4:HG:215:ARG:HH12	4:HG:299:ALA:HB1	1.78	0.48
3:HH:211:CYS:HA	3:HH:215:LEU:HB2	1.96	0.48
3:HH:385:PHE:HA	3:HH:388:MET:HE2	1.95	0.48
3:HL:217:LEU:HD11	3:HL:220:PRO:HB3	1.94	0.48
16:I:189:ASP:OD1	16:I:191:ASN:ND2	2.46	0.48
17:I2:55:THR:O	17:I2:59:LYS:HG3	2.13	0.48
4:IA:93:ILE:HG13	4:IA:118:VAL:HG12	1.94	0.48
4:IA:211:ASP:O	4:IA:214:ARG:NH1	2.47	0.48
4:IC:75:VAL:HG22	4:IC:79:ARG:HH21	1.79	0.48
3:ID:254:ALA:HA	3:ID:257:MET:HG2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:IE:88:HIS:HB3	4:IE:91:GLN:HG3	1.94	0.48
3:IF:28:HIS:O	3:IF:43:GLN:NE2	2.47	0.48
3:IF:54:ALA:HB3	3:IF:58:LYS:HB3	1.94	0.48
3:IF:375:GLN:HA	3:IF:378:PHE:CZ	2.48	0.48
4:IG:265:ILE:HD12	4:IG:432:TYR:CE1	2.49	0.48
4:IG:433:GLU:O	4:IG:437:VAL:N	2.43	0.48
3:IH:306:ARG:NE	3:IH:306:ARG:O	2.44	0.48
3:IH:323:MET:SD	3:IH:324:LYS:NZ	2.82	0.48
3:IH:376:GLU:H	3:IH:376:GLU:CD	2.21	0.48
4:II:333:ALA:HA	4:II:336:LYS:HD2	1.96	0.48
4:II:352:LYS:NZ	3:IJ:178:THR:HA	2.29	0.48
3:IJ:19:LYS:NZ	3:IJ:227:HIS:HB2	2.29	0.48
4:IK:389:ALA:HA	4:IK:392:ASP:OD2	2.14	0.48
3:IL:328:GLU:OE1	3:IL:332:ASN:ND2	2.47	0.48
4:JC:116:ASP:N	4:JC:116:ASP:OD1	2.46	0.48
4:JC:206:ASN:HA	4:JC:209:ILE:HD12	1.94	0.48
3:JF:252:LYS:O	3:JF:256:ASN:ND2	2.47	0.48
3:JF:290:THR:HG21	3:JF:329:GLN:HB3	1.94	0.48
4:JI:256:GLN:O	4:JI:260:VAL:HG12	2.13	0.48
4:JI:425:LEU:O	4:JI:428:LEU:N	2.47	0.48
3:JJ:305:PRO:HB2	3:JJ:310:TYR:HE1	1.78	0.48
21:K2:337:ALA:O	21:K2:341:ARG:HG3	2.13	0.48
21:K2:373:VAL:O	21:K2:377:ILE:HG13	2.14	0.48
21:K2:391:GLU:HG3	3:KF:107:THR:HG23	1.95	0.48
21:K2:424:ARG:O	21:K2:428:HIS:ND1	2.47	0.48
3:KB:11:GLN:HG3	39:KB:501:GTP:PA	2.52	0.48
3:KF:91:VAL:HG11	3:KF:116:VAL:HG12	1.95	0.48
3:KF:240:LEU:HD22	3:KF:248:ALA:HB1	1.96	0.48
3:KF:305:PRO:HB2	3:KF:310:TYR:HE1	1.79	0.48
4:KG:208:ALA:N	4:KG:304:LYS:HZ1	2.10	0.48
4:KG:309:HIS:N	4:NG:282:TYR:OH	2.47	0.48
3:KH:183:TYR:CD1	3:KH:388:MET:HE3	2.47	0.48
3:KJ:12:CYS:SG	3:KJ:13:GLY:N	2.86	0.48
3:KJ:234:SER:O	3:KJ:238:THR:HG23	2.13	0.48
22:L1:142:PHE:HZ	4:MC:298:PRO:HB2	1.77	0.48
22:L1:185:MET:SD	22:L1:186:LYS:N	2.87	0.48
22:L2:200:LEU:HD22	22:L2:241:ILE:HG13	1.94	0.48
4:LA:192:HIS:HA	4:LA:195:LEU:HD23	1.95	0.48
4:LA:280:LYS:O	4:LA:284:GLU:HB2	2.13	0.48
3:LB:113:VAL:HB	3:LB:154:LYS:HE2	1.96	0.48
4:LC:406:HIS:HA	4:LC:409:VAL:HG22	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:LE:70:LEU:HB3	4:LE:97:GLU:O	2.13	0.48
4:LE:220:GLU:O	4:LE:221:ARG:NE	2.43	0.48
3:LF:290:THR:HG21	3:LF:329:GLN:HB3	1.95	0.48
3:LF:389:PHE:HZ	3:LF:405:GLU:HB2	1.79	0.48
3:LJ:270:PHE:CG	3:LJ:271:ALA:N	2.81	0.48
3:LJ:273:LEU:N	3:LJ:292:GLN:HE22	2.02	0.48
4:LK:77:GLU:OE1	4:LK:77:GLU:N	2.43	0.48
4:LK:272:TYR:CZ	4:LK:274:PRO:HG2	2.49	0.48
4:LK:309:HIS:HA	31:R3:272:GLN:HE21	1.78	0.48
4:LK:423:GLU:HA	4:LK:426:ALA:HB3	1.96	0.48
3:LL:40:SER:HB3	3:LL:42:LEU:HD23	1.95	0.48
3:LL:156:ARG:NE	3:LL:164:MET:HE3	2.29	0.48
3:MB:52:ASN:ND2	3:MB:62:ARG:HD3	2.28	0.48
3:MB:81:PHE:O	3:MB:84:ILE:HG22	2.12	0.48
3:MB:117:LEU:HA	3:MB:120:VAL:HG12	1.96	0.48
4:MC:139:HIS:HE1	4:MC:168:GLU:HB3	1.77	0.48
3:MD:197:ASP:OD1	3:MD:198:GLU:N	2.47	0.48
4:ME:372:GLN:HE22	27:P:284:ILE:HG21	1.78	0.48
3:MF:12:CYS:HA	39:MF:501:GTP:N2	2.29	0.48
3:MF:378:PHE:CD1	3:MF:419:VAL:HG22	2.49	0.48
4:MG:140:SER:HA	4:MG:170:ALA:HB1	1.95	0.48
4:MG:320:ARG:CZ	4:MG:360:PRO:HA	2.44	0.48
3:MJ:166:THR:OG1	3:MJ:198:GLU:O	2.28	0.48
3:ML:173:PRO:HD3	3:ML:203:ASP:OD1	2.14	0.48
4:MM:88:HIS:HB3	4:MM:91:GLN:HB3	1.95	0.48
3:NB:324:LYS:HD2	4:NC:221:ARG:HA	1.95	0.48
4:NE:5:ILE:HD13	4:NE:64:ARG:HB3	1.96	0.48
3:NF:11:GLN:HG3	39:NF:501:GTP:PA	2.54	0.48
3:NJ:292:GLN:O	3:NJ:298:ASN:ND2	2.46	0.48
4:NK:6:SER:HA	4:NK:136:LEU:HB2	1.94	0.48
4:NK:70:LEU:HA	4:NK:95:GLY:HA3	1.94	0.48
28:O3:55:ARG:O	28:O3:57:LYS:NZ	2.47	0.48
3:OD:161:ASP:O	3:OD:251:ARG:NH2	2.47	0.48
3:OD:163:ILE:HD13	3:OD:250:LEU:HB3	1.94	0.48
3:OD:256:ASN:O	3:OD:257:MET:HE2	2.13	0.48
3:OD:259:PRO:HA	4:OE:404:PHE:CE1	2.49	0.48
4:OE:187:SER:O	4:OE:191:THR:HG23	2.13	0.48
3:OF:346:PRO:HD2	4:OG:398:MET:HE1	1.96	0.48
3:OH:330:MET:HE1	4:OI:177:VAL:HG22	1.94	0.48
4:OI:405:VAL:O	4:OI:409:VAL:HG22	2.14	0.48
4:OK:119:LEU:HB3	4:OK:123:ARG:NH2	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:OL:172:SER:OG	3:OL:205:GLU:OE2	2.23	0.48
27:P:196:ARG:HA	27:P:199:MET:HE3	1.95	0.48
29:P1:342:PHE:CG	29:P1:384:ARG:HG2	2.48	0.48
29:P1:479:ALA:HB1	29:P1:505:PHE:HB3	1.96	0.48
3:PB:28:HIS:ND1	3:PB:43:GLN:HB2	2.28	0.48
4:PG:413:MET:SD	4:PG:413:MET:N	2.87	0.48
4:PI:230:LEU:O	4:PI:234:ILE:HG12	2.13	0.48
4:PK:54:SER:N	4:PK:62:VAL:O	2.47	0.48
4:PK:288:VAL:O	4:PK:292:THR:OG1	2.27	0.48
3:PL:239:CYS:SG	3:PL:248:ALA:HA	2.53	0.48
4:PM:52:PHE:HZ	4:PM:239:THR:HB	1.78	0.48
4:PM:79:ARG:O	4:PM:84:ARG:HG3	2.13	0.48
30:Q2:1463:LYS:HG3	30:Q2:1469:LEU:HD22	1.96	0.48
3:QB:285:THR:O	3:QB:288:GLU:HG3	2.12	0.48
3:QB:372:THR:HG21	3:QB:426:GLN:HG3	1.95	0.48
4:QC:182:VAL:HA	4:QC:185:TYR:CD2	2.49	0.48
4:QC:214:ARG:NH1	4:QC:215:ARG:HG3	2.28	0.48
4:QC:287:SER:N	4:QC:290:GLU:OE2	2.46	0.48
3:QD:130:LEU:HB2	3:QD:162:ARG:HH11	1.78	0.48
3:QF:77:ARG:HD3	3:QF:90:PHE:HE2	1.79	0.48
3:QF:290:THR:HG21	3:QF:329:GLN:HB3	1.94	0.48
4:QG:206:ASN:HA	4:QG:209:ILE:HD12	1.95	0.48
4:QI:102:ASN:ND2	4:QI:411:GLU:OE2	2.39	0.48
3:QL:158:GLU:OE1	3:QL:158:GLU:N	2.46	0.48
31:R2:135:ALA:HA	31:R2:138:ASN:HB2	1.96	0.48
31:R2:251:PHE:HB2	31:R2:257:ARG:NE	2.28	0.48
3:RB:252:LYS:HG2	4:RC:98:ASP:OD2	2.14	0.48
3:RB:317:PHE:HB3	3:RB:321:MET:SD	2.53	0.48
4:RC:22:GLU:O	4:RC:26:LEU:HD23	2.14	0.48
4:RC:98:ASP:O	4:RC:105:ARG:NH2	2.32	0.48
4:RG:331:ALA:O	4:RG:334:THR:OG1	2.29	0.48
4:RI:206:ASN:HA	4:RI:209:ILE:HD12	1.96	0.48
4:RI:349:THR:HB	3:RJ:175:VAL:HG23	1.95	0.48
3:RJ:185:ALA:O	3:RJ:189:VAL:HG22	2.14	0.48
3:RL:40:SER:HB2	3:RL:43:GLN:CD	2.38	0.48
3:RL:83:GLN:O	3:RL:86:ARG:NH2	2.46	0.48
3:RL:130:LEU:HB2	3:RL:162:ARG:HH11	1.78	0.48
4:SC:32:PRO:O	4:SC:85:GLN:NE2	2.46	0.48
3:SD:3:GLU:OE2	3:SD:127:CYS:HB2	2.14	0.48
4:SE:166:LYS:N	4:SE:199:ASP:OD2	2.47	0.48
3:SF:269:GLY:N	3:SF:367:PHE:O	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:SI:201:ALA:H	4:SI:266:HIS:HD2	1.62	0.48
4:SK:9:VAL:HG22	4:SK:146:GLY:HA2	1.95	0.48
4:SM:11:GLN:O	4:SM:14:VAL:HG22	2.14	0.48
3:TD:289:LEU:O	3:TD:293:MET:N	2.43	0.48
4:TE:216:ASN:OD1	4:TE:217:LEU:N	2.46	0.48
3:TF:3:GLU:OE2	3:TF:127:CYS:HB2	2.12	0.48
4:TG:326:LYS:HD2	3:TH:208:TYR:CE2	2.48	0.48
3:TH:337:ASN:HB2	3:TH:340:TYR:CD2	2.48	0.48
4:TI:397:LEU:O	4:TI:401:LYS:HG2	2.14	0.48
4:TK:319:TYR:HE2	4:TK:328:VAL:HG13	1.79	0.48
3:TL:51:TYR:CD1	3:TL:61:PRO:HA	2.49	0.48
4:TM:54:SER:N	4:TM:62:VAL:O	2.46	0.48
4:TM:260:VAL:O	3:TN:397:TRP:HH2	1.96	0.48
3:TN:12:CYS:HA	39:TN:501:GTP:N2	2.28	0.48
3:TN:317:PHE:HB3	3:TN:321:MET:HE3	1.95	0.48
33:U:149:MET:O	33:U:153:GLU:N	2.45	0.48
4:UA:319:TYR:CD2	4:UA:323:VAL:HG11	2.48	0.48
4:UE:229:ARG:HE	4:UE:368:LEU:HD22	1.78	0.48
3:UF:12:CYS:HB3	39:UF:501:GTP:H5'	1.96	0.48
4:UG:9:VAL:HG21	4:UG:149:PHE:HB2	1.95	0.48
3:UH:3:GLU:HG2	3:UH:130:LEU:HD23	1.94	0.48
4:UI:263:PRO:HB2	4:UI:264:ARG:NH1	2.28	0.48
3:UJ:77:ARG:HD3	3:UJ:90:PHE:HE2	1.79	0.48
4:VA:83:TYR:HB3	4:VA:86:LEU:HD12	1.96	0.48
4:VA:329:ASN:HA	4:VA:332:ILE:HG12	1.95	0.48
3:VB:113:VAL:HA	3:VB:116:VAL:HG22	1.95	0.48
3:VB:421:GLU:HA	3:VB:424:GLN:HE21	1.78	0.48
3:VF:68:LEU:HD12	3:VF:97:ALA:HB2	1.94	0.48
4:VG:329:ASN:OD1	4:VG:330:ALA:N	2.47	0.48
4:VG:403:ALA:HB1	4:VG:404:PHE:HD1	1.78	0.48
3:VL:267:MET:O	3:VL:369:GLY:N	2.39	0.48
33:W:158:ASN:HB2	33:W:162:LEU:HD23	1.95	0.48
4:WA:273:ALA:HB2	4:WA:295:CYS:HB3	1.94	0.48
4:WA:315:CYS:O	4:WA:351:PHE:HA	2.13	0.48
3:WB:118:ASP:OD1	3:WB:121:ARG:NH1	2.47	0.48
4:WE:208:ALA:HA	4:WE:211:ASP:HB2	1.96	0.48
3:WF:8:GLN:OE1	3:WF:65:LEU:HD12	2.13	0.48
3:WF:239:CYS:SG	3:WF:316:VAL:HG11	2.53	0.48
3:WH:12:CYS:O	3:WH:16:ILE:HG12	2.13	0.48
3:WH:371:SER:OG	3:WH:372:THR:N	2.47	0.48
3:WJ:12:CYS:SG	39:WJ:501:GTP:H5'	2.54	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WK:132:LEU:HG	35:XM:71:HIS:NE2	2.29	0.48
3:WL:292:GLN:O	3:WL:298:ASN:ND2	2.43	0.48
34:XD:93:VAL:HG22	34:XD:103:PHE:HE2	1.77	0.48
35:XH:141:LEU:HD13	35:XH:180:ILE:HG21	1.95	0.48
35:XJ:72:ASP:OD1	35:XJ:73:SER:N	2.47	0.48
37:YA:108:ASN:HD21	37:YA:110:LEU:HD12	1.79	0.48
37:YE:116:LYS:NZ	37:YE:117:TYR:O	2.47	0.48
37:YM:71:ASP:O	37:YM:75:GLU:HG3	2.13	0.48
37:YN:61:THR:O	37:YN:65:ILE:HG12	2.14	0.48
37:YN:147:PHE:HA	37:YN:150:GLU:OE1	2.13	0.48
37:YR:59:ASN:HB2	37:YR:62:HIS:CE1	2.48	0.48
37:YR:159:PRO:HB2	37:YR:161:LYS:HG2	1.94	0.48
37:YV:22:GLN:O	37:YV:26:ILE:HG12	2.13	0.48
36:Z:276:ILE:O	36:Z:280:GLU:HG2	2.13	0.48
36:Z:412:LYS:O	36:Z:416:LEU:HG	2.13	0.48
2:A2:329:CYS:O	2:A2:330:ARG:HG2	2.13	0.48
4:AC:271:THR:HB	4:AC:377:MET:HB3	1.95	0.48
4:AC:283:HIS:CE1	4:MC:88:HIS:HA	2.48	0.48
3:AD:374:ILE:HG22	3:AD:378:PHE:CD2	2.48	0.48
4:AE:260:VAL:HG23	4:AE:265:ILE:O	2.13	0.48
4:AE:316:CYS:O	4:AE:378:LEU:N	2.41	0.48
3:AF:150:LEU:O	3:AF:153:SER:OG	2.26	0.48
3:AF:392:LYS:HD2	3:AF:392:LYS:O	2.12	0.48
4:AG:12:ALA:HB1	39:AG:501:GTP:C2	2.48	0.48
4:AG:50:ASN:O	4:AG:64:ARG:NH1	2.47	0.48
4:AI:46:ASP:HA	4:AI:50:ASN:HB3	1.94	0.48
4:AI:333:ALA:HA	4:AI:336:LYS:HD2	1.96	0.48
4:AI:411:GLU:OE2	4:AI:413:MET:HE1	2.12	0.48
3:AJ:152:ILE:O	3:AJ:156:ARG:HG2	2.13	0.48
3:AL:249:ASP:HB3	3:AL:252:LYS:HB2	1.96	0.48
1:B:317:GLU:O	1:B:320:ARG:HG2	2.14	0.48
5:B1:272:MET:C	5:B1:380:LYS:HZ1	2.21	0.48
5:B4:7:LYS:NZ	8:D3:326:LEU:HA	2.29	0.48
5:B6:167:GLU:HA	5:B6:170:GLN:HG3	1.95	0.48
3:BB:183:TYR:CG	3:BB:388:MET:HE3	2.48	0.48
3:BB:324:LYS:HD2	4:BC:221:ARG:HA	1.95	0.48
4:BC:319:TYR:HB2	4:BC:355:ILE:HD13	1.95	0.48
3:BD:183:TYR:CD1	3:BD:388:MET:HE3	2.48	0.48
4:BE:255:PHE:O	4:BE:259:LEU:HB2	2.14	0.48
3:BF:2:ARG:HA	3:BF:129:CYS:O	2.14	0.48
3:BF:361:LEU:HB3	13:G1:111:MET:HE1	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BK:418:PHE:O	4:BK:422:ARG:NH2	2.46	0.48
4:BK:429:GLU:O	4:BK:432:TYR:N	2.47	0.48
4:BM:101:ASN:HA	4:BM:144:GLY:HA2	1.94	0.48
7:C1:296:VAL:HG12	7:C1:298:GLU:OE1	2.13	0.48
7:C4:129:GLN:O	7:C4:133:GLN:HG2	2.13	0.48
7:C4:197:GLU:HA	7:C4:200:PHE:CE1	2.49	0.48
7:C7:433:THR:O	7:C7:437:ARG:HG2	2.14	0.48
7:C8:109:GLU:OE2	10:E3:146:GLY:HA2	2.14	0.48
7:C8:379:ILE:O	7:C8:383:LYS:HG3	2.13	0.48
4:CC:394:LYS:O	4:CC:398:MET:HG2	2.13	0.48
4:CC:396:ASP:HB3	4:CC:422:ARG:HH22	1.78	0.48
3:CF:8:GLN:N	3:CF:8:GLN:OE1	2.47	0.48
3:CF:139:LEU:HD21	3:CF:170:VAL:HG22	1.94	0.48
4:CG:256:GLN:O	4:CG:260:VAL:HG12	2.14	0.48
3:CH:167:PHE:HD1	3:CH:200:TYR:HD2	1.62	0.48
3:CH:204:ASN:O	3:CH:208:TYR:N	2.37	0.48
3:CH:276:ARG:NE	3:CH:276:ARG:O	2.45	0.48
3:CH:372:THR:HB	3:CH:375:GLN:HE22	1.79	0.48
3:CJ:33:THR:HG22	13:G2:340:ARG:CZ	2.44	0.48
3:CL:328:GLU:OE2	3:CL:329:GLN:NE2	2.46	0.48
7:Cb:120:LEU:HA	7:Cb:123:ASP:OD2	2.13	0.48
7:Cb:297:PRO:HA	7:Cb:300:TRP:HE3	1.79	0.48
7:Cc:385:ALA:O	7:Cc:389:LYS:HG3	2.14	0.48
8:D3:147:VAL:O	8:D3:150:SER:OG	2.31	0.48
8:D3:407:ASP:O	8:D3:410:MET:HG3	2.13	0.48
4:DA:56:THR:OG1	4:EA:285:GLN:HB2	2.14	0.48
3:DB:247:ASN:CB	3:DB:252:LYS:HG2	2.42	0.48
4:DC:47:ASP:HB3	4:DC:49:PHE:CE2	2.48	0.48
4:DC:301:GLN:OE1	4:DC:301:GLN:N	2.47	0.48
3:DD:272:PRO:HA	3:DD:292:GLN:OE1	2.14	0.48
3:DF:28:HIS:ND1	3:DF:43:GLN:HB2	2.29	0.48
4:DI:30:ILE:HG13	4:DI:53:PHE:HE2	1.78	0.48
4:DI:287:SER:N	4:DI:290:GLU:OE2	2.46	0.48
3:DJ:229:VAL:O	3:DJ:232:THR:OG1	2.26	0.48
3:DJ:309:ARG:HH22	3:DJ:344:TRP:HZ3	1.60	0.48
3:DJ:316:VAL:HG22	3:DJ:352:ALA:HB3	1.95	0.48
3:DJ:357:PRO:HB3	3:DJ:362:LYS:HA	1.95	0.48
4:DK:107:HIS:CD2	4:DK:152:LEU:HB2	2.49	0.48
4:EA:67:PHE:O	4:EA:93:ILE:N	2.46	0.48
3:EB:50:TYR:HE2	3:EB:241:ARG:HH21	1.61	0.48
3:EB:156:ARG:CZ	3:EB:164:MET:HE3	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EC:1:MET:HE1	4:EC:51:THR:HB	1.95	0.48
3:EF:30:ILE:HG13	3:EF:36:TYR:HD1	1.78	0.48
3:EF:217:LEU:O	3:EF:219:THR:N	2.45	0.48
3:EF:285:THR:O	3:EF:288:GLU:HG3	2.14	0.48
4:EG:207:GLU:HB2	4:EG:304:LYS:HZ1	1.77	0.48
4:EI:218:ASP:O	4:EI:219:ILE:HD13	2.14	0.48
3:EJ:143:THR:OG1	3:EJ:147:MET:HE2	2.13	0.48
3:EJ:178:THR:HB	3:EJ:181:GLU:HB2	1.96	0.48
4:EK:165:SER:C	4:EK:166:LYS:HD2	2.39	0.48
4:EK:287:SER:OG	4:EK:290:GLU:OE1	2.27	0.48
3:EL:384:GLN:O	3:EL:388:MET:HG2	2.14	0.48
11:F1:401:ARG:NH2	11:F6:449:SER:HB3	2.28	0.48
11:F3:129:GLN:HA	11:F3:132:HIS:NE2	2.28	0.48
11:F3:366:GLN:HA	11:F3:369:PHE:CE2	2.48	0.48
11:F4:113:ALA:O	11:F4:117:THR:HG23	2.13	0.48
11:F5:315:ILE:O	11:F5:318:ARG:HB3	2.13	0.48
11:F6:141:ASN:HA	11:F6:144:GLN:OE1	2.14	0.48
4:FA:261:PRO:HA	3:FB:394:PHE:CE1	2.49	0.48
3:FB:324:LYS:HD2	4:FC:221:ARG:HA	1.95	0.48
4:FE:386:GLU:HA	4:FE:389:ALA:HB3	1.96	0.48
3:FF:378:PHE:CD1	3:FF:419:VAL:HG22	2.49	0.48
3:FH:6:HIS:HB3	3:FH:21:TRP:HZ2	1.78	0.48
3:FH:272:PRO:HA	3:FH:292:GLN:OE1	2.12	0.48
3:FH:347:ASN:HB3	4:FI:178:SER:HB3	1.95	0.48
3:FH:350:LYS:HE3	4:FI:181:VAL:N	2.28	0.48
3:FJ:379:LYS:HA	3:FJ:379:LYS:HE2	1.95	0.48
3:FL:149:THR:HB	3:FL:191:GLN:HE21	1.78	0.48
11:Fm:135:GLN:NE2	11:Fm:136:GLU:HG3	2.29	0.48
12:G:92:ILE:O	12:G:95:GLU:HG3	2.14	0.48
12:G:289:LYS:O	12:G:293:GLN:HG2	2.13	0.48
12:G:327:LYS:HG3	12:G:331:LYS:NZ	2.29	0.48
13:G1:158:ASP:OD1	13:G1:159:MET:N	2.46	0.48
13:G1:298:PRO:HB2	13:G1:301:LEU:HD21	1.96	0.48
13:G1:347:CYS:SG	13:G1:352:ARG:HB3	2.53	0.48
13:G2:275:ILE:HG13	13:G2:292:MET:HE3	1.96	0.48
13:G2:422:TYR:HB2	13:G2:440:PHE:CD2	2.49	0.48
13:G3:217:LYS:HG3	13:G3:218:GLU:N	2.25	0.48
13:G3:243:LEU:HD12	13:G3:266:TYR:HB3	1.95	0.48
13:G3:319:GLU:OE1	13:G3:319:GLU:N	2.46	0.48
14:G4:25:HIS:HD2	14:G4:40:LYS:HG3	1.78	0.48
14:G4:694:PHE:HA	14:G4:697:LEU:HG	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G5:25:HIS:HD2	14:G5:40:LYS:HG3	1.79	0.48
14:G5:42:GLY:HA3	14:G5:46:ASP:HB2	1.94	0.48
14:G5:485:ARG:HD3	14:G5:501:TYR:CG	2.48	0.48
14:G6:736:LEU:O	14:G6:740:ILE:N	2.30	0.48
3:GB:289:LEU:O	3:GB:293:MET:N	2.45	0.48
3:GD:186:THR:HG23	3:GD:385:PHE:CZ	2.48	0.48
3:GD:272:PRO:HA	3:GD:292:GLN:OE1	2.13	0.48
4:GE:35:GLN:HE22	4:GE:42:ILE:HD13	1.78	0.48
4:GE:47:ASP:HB3	4:GE:49:PHE:CE2	2.48	0.48
3:GF:122:LYS:NZ	23:M:125:PHE:HE2	2.12	0.48
4:GG:10:GLY:HA2	4:GG:145:THR:OG1	2.14	0.48
3:GH:139:LEU:N	3:GH:168:SER:OG	2.47	0.48
4:GK:315:CYS:HB2	4:GK:343:PHE:HZ	1.77	0.48
15:H3:292:MET:O	15:H3:295:ASN:N	2.46	0.48
4:HA:171:ILE:HD12	4:HA:204:VAL:HG13	1.95	0.48
4:HA:319:TYR:N	4:HA:354:GLY:O	2.47	0.48
4:HA:399:TYR:OH	4:HA:415:GLU:OE2	2.22	0.48
3:HB:392:LYS:HD2	3:HB:392:LYS:O	2.12	0.48
4:HC:271:THR:HG23	4:HC:302:MET:HE1	1.95	0.48
3:HD:172:SER:HB3	3:HD:175:VAL:O	2.14	0.48
3:HD:226:ASN:HA	3:HD:229:VAL:HG12	1.96	0.48
4:HE:420:GLU:HG2	4:HE:424:ASP:OD2	2.13	0.48
4:HG:35:GLN:HG2	4:HG:59:GLY:O	2.14	0.48
4:HK:53:PHE:O	4:HK:64:ARG:NH1	2.46	0.48
3:HL:13:GLY:HA2	3:HL:16:ILE:HB	1.95	0.48
3:HL:150:LEU:C	3:HL:154:LYS:HZ3	2.22	0.48
3:HL:156:ARG:NH1	3:HL:195:ASN:O	2.47	0.48
4:IA:254:GLU:OE1	4:IA:254:GLU:N	2.43	0.48
3:IB:246:LEU:HD12	3:IB:352:ALA:HB1	1.95	0.48
4:IC:1:MET:SD	4:IC:2:ARG:N	2.86	0.48
3:ID:21:TRP:CZ2	3:ID:63:ALA:HB2	2.49	0.48
4:II:166:LYS:N	4:II:199:ASP:OD2	2.47	0.48
4:II:224:TYR:HD1	4:II:227:LEU:HD22	1.78	0.48
4:II:269:LEU:N	4:II:379:SER:O	2.31	0.48
3:IL:103:LYS:O	3:IL:108:GLU:N	2.34	0.48
4:JA:8:HIS:CD2	4:JA:17:GLY:HA3	2.49	0.48
4:JA:115:VAL:HG21	4:JA:156:ARG:HD3	1.96	0.48
4:JA:433:GLU:O	4:JA:437:VAL:N	2.45	0.48
4:JE:30:ILE:HG13	4:JE:53:PHE:HE2	1.78	0.48
4:JI:88:HIS:HB3	4:JI:91:GLN:CG	2.43	0.48
4:JI:262:TYR:CE1	3:JJ:393:ALA:HA	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JJ:255:VAL:HG12	4:JK:407:TRP:CD2	2.48	0.48
3:JJ:389:PHE:HZ	3:JJ:405:GLU:HB2	1.78	0.48
21:K2:357:MET:O	21:K2:361:ILE:HG13	2.14	0.48
21:K4:328:ILE:HG12	21:K4:331:ARG:HH21	1.78	0.48
21:K4:353:THR:HA	21:K4:356:LEU:HG	1.96	0.48
4:KA:2:ARG:NH1	4:KA:241:SER:O	2.47	0.48
4:KA:43:GLY:HA2	27:Q:152:ARG:NH2	2.27	0.48
4:KA:316:CYS:HB3	4:KA:378:LEU:HB3	1.94	0.48
3:KB:415:MET:O	3:KB:419:VAL:HG23	2.13	0.48
4:KC:11:GLN:HG3	39:KC:501:GTP:O1B	2.14	0.48
4:KC:320:ARG:HG2	4:KC:358:GLN:O	2.14	0.48
3:KD:392:LYS:HD2	3:KD:392:LYS:O	2.14	0.48
4:KI:245:ASP:HA	4:KI:249:ASN:HD21	1.78	0.48
4:KK:167:LEU:HD13	4:KK:200:CYS:HB2	1.95	0.48
22:L1:193:ARG:NE	22:L1:250:ILE:HG12	2.28	0.48
4:LA:272:TYR:HE1	4:LA:374:ALA:HB1	1.78	0.48
3:LB:350:LYS:HE3	4:LC:180:ALA:HA	1.94	0.48
3:LD:156:ARG:NH1	3:LD:195:ASN:O	2.47	0.48
3:LF:132:GLY:HA3	3:LF:163:ILE:H	1.79	0.48
4:LG:34:GLY:HA2	4:LG:86:LEU:HD21	1.96	0.48
4:LG:417:GLU:HA	4:LG:420:GLU:OE2	2.13	0.48
3:LH:226:ASN:HA	3:LH:229:VAL:HG22	1.95	0.48
4:LI:3:GLU:OE2	4:LI:130:THR:N	2.34	0.48
4:LI:54:SER:HB2	4:LI:62:VAL:HB	1.95	0.48
4:LI:187:SER:O	4:LI:191:THR:HG23	2.13	0.48
4:LK:108:TYR:O	4:LK:112:LYS:NZ	2.46	0.48
4:LK:301:GLN:N	4:LK:301:GLN:OE1	2.47	0.48
4:ME:25:CYS:O	4:ME:30:ILE:N	2.43	0.48
3:MF:211:CYS:O	3:MF:216:LYS:N	2.43	0.48
3:MH:305:PRO:HB2	3:MH:310:TYR:HE1	1.78	0.48
4:MK:256:GLN:HE22	3:ML:397:TRP:HE1	1.61	0.48
3:ML:50:TYR:HE2	3:ML:241:ARG:HE	1.62	0.48
4:NA:76:ASP:OD1	4:NA:79:ARG:NH1	2.47	0.48
4:NA:438:ASP:HA	3:NB:391:ARG:HH12	1.78	0.48
3:NB:3:GLU:OE2	3:NB:127:CYS:HB2	2.13	0.48
4:NC:6:SER:HA	4:NC:136:LEU:HB2	1.96	0.48
3:ND:16:ILE:HD13	3:ND:226:ASN:ND2	2.26	0.48
3:NF:324:LYS:HD2	4:NG:221:ARG:HA	1.96	0.48
4:NG:212:ILE:HG13	4:NG:215:ARG:NH2	2.29	0.48
3:NH:81:PHE:O	3:NH:84:ILE:HG22	2.13	0.48
3:NH:152:ILE:O	3:NH:156:ARG:HG2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NL:385:PHE:HZ	3:NL:408:PHE:HB3	1.77	0.48
28:O1:38:TYR:HA	30:Q1:1414:LEU:HG	1.95	0.48
28:O3:97:HIS:O	28:O3:98:LYS:HG2	2.13	0.48
28:O3:99:ASN:HB3	28:O3:102:LEU:HG	1.94	0.48
3:OD:12:CYS:HA	39:OD:501:GTP:N2	2.29	0.48
3:OD:324:LYS:HE2	4:OE:222:PRO:CD	2.43	0.48
4:OE:115:VAL:HA	4:OE:118:VAL:HG22	1.95	0.48
4:OG:2:ARG:HA	4:OG:133:GLN:NE2	2.28	0.48
4:OI:167:LEU:HD13	4:OI:200:CYS:HB2	1.95	0.48
3:OJ:419:VAL:HG12	3:OJ:423:GLN:HE22	1.79	0.48
4:OK:47:ASP:HB3	4:OK:49:PHE:CE2	2.49	0.48
4:OK:216:ASN:ND2	4:OK:275:VAL:O	2.46	0.48
4:OK:224:TYR:CE1	39:OK:501:GTP:C5	2.98	0.48
3:OL:49:VAL:HG13	3:OL:50:TYR:CD2	2.49	0.48
27:P:326:GLN:O	27:P:330:LEU:N	2.35	0.48
29:P2:172:GLU:O	29:P2:173:MET:HE2	2.14	0.48
29:P2:243:GLY:HA3	29:P2:281:TYR:CD2	2.48	0.48
29:P2:509:CYS:HB2	29:P2:518:ILE:HG13	1.96	0.48
29:P3:432:ILE:HD12	29:P3:446:VAL:HG11	1.95	0.48
3:PB:148:GLY:O	3:PB:152:ILE:HG12	2.13	0.48
3:PD:246:LEU:HD22	3:PD:354:CYS:HA	1.96	0.48
3:PH:14:ASN:ND2	3:PH:67:ASP:OD2	2.47	0.48
3:PH:261:PRO:O	3:PH:264:HIS:NE2	2.46	0.48
3:PJ:139:LEU:N	3:PJ:168:SER:OG	2.46	0.48
3:PL:116:VAL:HG23	3:PL:117:LEU:HD22	1.95	0.48
3:PL:309:ARG:H	3:PL:372:THR:HG1	1.59	0.48
30:Q2:1383:ILE:HA	30:Q2:1394:PHE:HD2	1.79	0.48
3:QB:8:GLN:NE2	3:QB:17:GLY:HA3	2.28	0.48
3:QB:214:THR:HG23	3:QB:215:LEU:HD12	1.96	0.48
4:QC:116:ASP:N	4:QC:116:ASP:OD1	2.45	0.48
4:QC:207:GLU:HB2	4:QC:304:LYS:NZ	2.29	0.48
4:QC:396:ASP:HA	4:QC:422:ARG:HH22	1.78	0.48
4:QC:405:VAL:O	4:QC:409:VAL:HG22	2.13	0.48
4:QE:16:ILE:HD11	4:QE:138:PHE:HB3	1.95	0.48
3:QF:318:ARG:HD3	3:QF:358:PRO:HG3	1.96	0.48
3:QH:197:ASP:OD1	3:QH:198:GLU:N	2.46	0.48
3:QH:318:ARG:C	3:QH:321:MET:HE1	2.38	0.48
3:QH:324:LYS:NZ	4:QI:222:PRO:O	2.33	0.48
4:QI:35:GLN:HG2	4:QI:59:GLY:O	2.14	0.48
3:QJ:139:LEU:HD21	3:QJ:170:VAL:HG22	1.95	0.48
3:QJ:218:THR:OG1	3:QJ:219:THR:N	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QJ:379:LYS:HE2	3:QJ:379:LYS:HA	1.96	0.48
4:QM:390:ARG:HA	4:QM:393:HIS:CD2	2.49	0.48
31:R2:117:THR:O	31:R2:148:ARG:HA	2.14	0.48
3:RB:246:LEU:HB2	3:RB:352:ALA:HB1	1.94	0.48
4:RG:2:ARG:HA	4:RG:133:GLN:NE2	2.28	0.48
4:RG:166:LYS:N	4:RG:199:ASP:OD2	2.46	0.48
4:RK:271:THR:HB	4:RK:377:MET:HE2	1.94	0.48
3:SB:12:CYS:SG	3:SB:13:GLY:N	2.87	0.48
3:SB:330:MET:SD	3:SB:331:LEU:HD22	2.53	0.48
3:SB:347:ASN:HB3	4:SC:178:SER:HB3	1.96	0.48
4:SC:154:MET:HA	4:SC:157:LEU:HG	1.95	0.48
4:SG:132:LEU:HD13	4:SG:164:LYS:HE2	1.95	0.48
4:SG:286:LEU:HD11	4:SG:372:GLN:H	1.78	0.48
3:SJ:269:GLY:N	3:SJ:367:PHE:O	2.46	0.48
4:SK:54:SER:N	4:SK:62:VAL:O	2.47	0.48
3:SL:246:LEU:HD22	3:SL:354:CYS:HA	1.94	0.48
4:SM:10:GLY:HA2	4:SM:145:THR:OG1	2.14	0.48
4:SM:235:VAL:HA	4:SM:238:ILE:HG12	1.94	0.48
4:SM:265:ILE:HD12	4:SM:432:TYR:CE1	2.48	0.48
3:TB:12:CYS:SG	3:TB:13:GLY:N	2.86	0.48
3:TB:258:VAL:HB	4:TC:407:TRP:HZ2	1.79	0.48
3:TB:269:GLY:HA3	3:TB:367:PHE:HB3	1.95	0.48
3:TD:188:SER:O	3:TD:192:LEU:HG	2.14	0.48
4:TE:54:SER:HB2	4:TE:62:VAL:HB	1.94	0.48
4:TI:216:ASN:ND2	4:TI:275:VAL:O	2.46	0.48
3:TL:254:ALA:HA	3:TL:257:MET:HG2	1.96	0.48
4:TM:331:ALA:O	4:TM:334:THR:OG1	2.27	0.48
3:UB:28:HIS:ND1	3:UB:43:GLN:HB2	2.29	0.48
3:UB:214:THR:HG21	3:UB:273:LEU:HB3	1.95	0.48
4:UC:104:ALA:HA	4:UC:107:HIS:HB3	1.95	0.48
4:UC:116:ASP:N	4:UC:116:ASP:OD1	2.45	0.48
4:UE:171:ILE:HD12	4:UE:204:VAL:HG23	1.94	0.48
3:UF:189:VAL:HA	3:UF:192:LEU:HD12	1.96	0.48
4:UG:88:HIS:HD2	4:VG:284:GLU:OE2	1.96	0.48
3:UH:39:ASP:OD1	3:UH:39:ASP:N	2.46	0.48
4:UI:256:GLN:O	4:UI:260:VAL:HG12	2.14	0.48
4:UK:208:ALA:H	4:UK:304:LYS:HZ1	1.59	0.48
3:UL:152:ILE:O	3:UL:156:ARG:HG2	2.13	0.48
3:VB:182:PRO:HB3	3:VB:381:ILE:HD11	1.93	0.48
3:VB:240:LEU:HA	3:VB:248:ALA:HB1	1.96	0.48
3:VD:182:PRO:HB2	3:VD:388:MET:HE1	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:VE:175:PRO:HA	4:VE:390:ARG:CZ	2.44	0.48
3:VF:378:PHE:CD1	3:VF:419:VAL:HG22	2.48	0.48
4:VG:187:SER:O	4:VG:190:THR:OG1	2.28	0.48
3:VH:313:VAL:HG23	3:VH:349:VAL:HA	1.95	0.48
4:VI:1:MET:HE3	4:VI:50:ASN:ND2	2.27	0.48
3:VJ:305:PRO:HA	3:VJ:373:ALA:HB2	1.95	0.48
3:VL:12:CYS:HB3	39:VL:501:GTP:H5'	1.94	0.48
33:W:80:GLN:HG3	33:W:89:GLU:HG2	1.96	0.48
33:W:164:ASP:OD1	33:W:165:LEU:N	2.46	0.48
4:WC:161:TYR:O	4:WC:166:LYS:NZ	2.37	0.48
3:WD:218:THR:OG1	3:WD:219:THR:N	2.46	0.48
3:WD:258:VAL:HB	4:WE:407:TRP:CZ2	2.44	0.48
4:WE:208:ALA:N	4:WE:304:LYS:HZ1	2.10	0.48
4:WG:5:ILE:HD11	4:WG:129:CYS:SG	2.53	0.48
4:WG:172:TYR:N	4:WG:204:VAL:O	2.37	0.48
4:WG:272:TYR:CZ	4:WG:274:PRO:HG2	2.49	0.48
3:WH:218:THR:OG1	3:WH:219:THR:N	2.45	0.48
4:WK:260:VAL:O	3:WL:397:TRP:HH2	1.96	0.48
35:XH:178:LEU:HD21	35:XH:228:ILE:HG12	1.96	0.48
35:XI:176:GLN:OE1	35:XI:176:GLN:N	2.46	0.48
35:XK:152:THR:O	35:XK:156:LEU:N	2.38	0.48
35:XM:105:PHE:CD1	35:XM:106:PRO:HA	2.49	0.48
35:XM:145:ASN:O	35:XM:149:ILE:HG12	2.13	0.48
37:YB:17:LEU:O	37:YB:20:GLN:HB3	2.14	0.48
37:YB:97:LEU:HG	37:YB:101:LYS:HE2	1.96	0.48
37:YI:140:LEU:O	37:YI:144:VAL:HG23	2.14	0.48
37:YP:113:LEU:HB2	37:YP:136:GLY:HA2	1.96	0.48
37:YQ:76:LEU:O	37:YQ:80:CYS:N	2.46	0.48
37:YT:5:LYS:HD3	37:YT:152:ILE:HG21	1.95	0.48
37:YU:15:TYR:OH	37:YU:141:ILE:HG21	2.14	0.48
37:YV:6:GLU:HA	37:YV:9:ARG:NH1	2.28	0.48
1:A:127:LYS:HE3	1:B:464:PRO:CG	2.36	0.48
2:A1:290:ALA:O	2:A1:293:GLU:HG3	2.13	0.48
2:A1:369:GLN:HE22	2:A1:373:GLN:NE2	2.12	0.48
3:AD:357:PRO:HB3	3:AD:362:LYS:O	2.12	0.48
4:AE:104:ALA:O	4:AE:108:TYR:N	2.46	0.48
4:AE:116:ASP:OD1	4:AE:117:LEU:N	2.47	0.48
4:AE:216:ASN:HD21	4:AE:275:VAL:HG23	1.79	0.48
4:AE:362:VAL:HA	4:AE:368:LEU:HD11	1.96	0.48
3:AF:305:PRO:HB2	3:AF:310:TYR:HE1	1.77	0.48
4:AG:188:ILE:HD11	4:AG:425:LEU:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AH:101:TRP:HB2	3:AH:184:ASN:HD22	1.78	0.48
3:AH:117:LEU:HA	3:AH:120:VAL:HG22	1.94	0.48
3:AJ:12:CYS:SG	3:AJ:13:GLY:N	2.87	0.48
3:AJ:258:VAL:HB	4:AK:407:TRP:HZ2	1.78	0.48
4:AK:421:ALA:O	4:AK:425:LEU:N	2.27	0.48
3:AL:3:GLU:OE2	3:AL:127:CYS:HB2	2.13	0.48
3:AL:149:THR:HG21	3:AL:188:SER:HA	1.95	0.48
3:AL:324:LYS:HE2	4:AM:222:PRO:CD	2.44	0.48
5:B2:120:ARG:HH12	5:B2:390:CYS:HB3	1.78	0.48
5:B5:44:ILE:HD11	7:C4:126:ARG:NE	2.29	0.48
5:B6:171:GLN:NE2	5:B6:172:LEU:HG	2.29	0.48
5:B9:373:ILE:O	5:B9:377:ILE:HG12	2.13	0.48
3:BF:152:ILE:O	3:BF:156:ARG:HG2	2.14	0.48
4:BG:116:ASP:N	4:BG:116:ASP:OD1	2.43	0.48
4:BG:246:GLY:HA3	4:BG:355:ILE:O	2.14	0.48
4:BI:102:ASN:HD22	4:BI:105:ARG:HG3	1.79	0.48
4:BI:346:TRP:HA	3:BJ:390:ARG:HH22	1.77	0.48
3:BL:324:LYS:HD2	4:BM:221:ARG:HA	1.96	0.48
6:C:98:GLY:HA3	6:C:102:THR:HG21	1.94	0.48
6:C:306:VAL:HG23	6:C:307:TYR:CD1	2.49	0.48
7:C2:378:THR:O	7:C2:382:ILE:HG13	2.14	0.48
7:C4:281:VAL:CA	7:C5:398:THR:HG21	2.42	0.48
7:C4:406:ARG:NH1	7:C4:412:CYS:H	2.11	0.48
7:C8:131:LYS:HZ3	7:C9:430:THR:HG23	1.79	0.48
7:C8:198:CYS:O	7:C8:202:ARG:HG2	2.13	0.48
3:CB:2:ARG:HB3	3:CB:131:GLN:CD	2.39	0.48
3:CB:9:ALA:HB3	3:CB:137:HIS:HB3	1.95	0.48
3:CB:104:GLY:HA2	3:CB:108:GLU:HB2	1.96	0.48
3:CB:269:GLY:O	3:CB:367:PHE:N	2.35	0.48
4:CC:12:ALA:HB1	39:CC:501:GTP:N2	2.28	0.48
3:CD:211:CYS:O	3:CD:216:LYS:N	2.36	0.48
4:CE:372:GLN:HB3	4:CE:373:ARG:HH11	1.78	0.48
3:CF:12:CYS:HA	39:CF:501:GTP:N2	2.28	0.48
3:CF:51:TYR:CD1	3:CF:61:PRO:HA	2.48	0.48
4:CG:186:ASN:OD1	4:CG:187:SER:N	2.47	0.48
4:CG:229:ARG:NH1	4:CG:367:ASP:H	2.12	0.48
4:CG:254:GLU:OE1	4:CG:254:GLU:N	2.40	0.48
3:CJ:11:GLN:HG3	39:CJ:501:GTP:PA	2.54	0.48
3:CL:151:LEU:O	3:CL:155:ILE:HG12	2.14	0.48
3:CL:389:PHE:HZ	3:CL:405:GLU:HB2	1.79	0.48
7:Cb:379:ILE:O	7:Cb:383:LYS:HG3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Cc:147:GLY:O	7:Cc:150:VAL:HG12	2.14	0.48
6:D:290:ILE:HG12	6:D:329:ILE:HG23	1.95	0.48
8:D2:52:LEU:N	8:D2:55:GLU:OE2	2.34	0.48
8:D2:141:ALA:O	8:D2:145:THR:HG23	2.14	0.48
8:D3:157:GLN:O	8:D3:161:ARG:HG2	2.13	0.48
8:D3:315:LEU:HD11	8:D3:423:LEU:HD12	1.94	0.48
8:D6:360:ARG:HH12	8:D7:228:CYS:CB	2.26	0.48
8:D8:325:THR:OG1	8:D9:71:ARG:NH2	2.47	0.48
8:D9:287:ARG:NH1	8:D9:291:GLU:OE2	2.27	0.48
3:DD:25:SER:O	3:DD:29:GLY:N	2.47	0.48
3:DF:176:SER:O	3:DF:178:THR:N	2.47	0.48
4:DG:36:MET:HA	4:DG:36:MET:HE2	1.94	0.48
4:DG:175:PRO:O	4:DG:390:ARG:HD3	2.14	0.48
4:DG:332:ILE:HG13	4:DG:336:LYS:HZ2	1.79	0.48
3:DH:7:LEU:HD13	3:DH:64:VAL:HB	1.93	0.48
3:DJ:36:TYR:CZ	3:DJ:38:GLY:HA2	2.49	0.48
3:DL:216:LYS:O	3:DL:276:ARG:NH2	2.46	0.48
9:E:656:GLU:HG2	9:E:657:HIS:N	2.28	0.48
10:E1:165:ASP:HB3	10:E1:175:ARG:HH12	1.79	0.48
3:EB:318:ARG:HD3	3:EB:358:PRO:HG3	1.96	0.48
4:EG:260:VAL:HG23	4:EG:265:ILE:O	2.14	0.48
3:EH:311:LEU:HD12	3:EH:342:VAL:HG21	1.95	0.48
9:F:346:ARG:NH2	4:IK:373:ARG:HD2	2.29	0.48
11:F2:472:MET:N	11:F2:472:MET:SD	2.86	0.48
11:F3:307:ALA:O	11:F3:311:ARG:HG3	2.13	0.48
11:F4:231:LYS:HA	11:F4:234:LYS:HE2	1.96	0.48
11:F5:302:ASP:O	11:F5:305:ARG:HG2	2.13	0.48
11:F7:359:THR:HB	11:F7:363:LYS:NZ	2.28	0.48
11:F7:402:ARG:HH11	11:F7:407:LEU:HD12	1.79	0.48
4:FA:295:CYS:HB2	4:FA:377:MET:HG2	1.94	0.48
3:FB:284:LEU:HD11	3:FB:363:MET:HB2	1.95	0.48
3:FB:324:LYS:HE2	4:FC:222:PRO:HG2	1.96	0.48
3:FD:99:ASN:HB3	39:FD:501:GTP:O3B	2.13	0.48
4:FE:288:VAL:O	4:FE:292:THR:OG1	2.28	0.48
3:FF:289:LEU:HD22	3:FF:363:MET:HE3	1.95	0.48
4:FG:22:GLU:O	4:FG:26:LEU:HD23	2.14	0.48
4:FG:89:PRO:HD2	4:GG:280:LYS:HZ3	1.79	0.48
4:FG:224:TYR:CE2	39:FG:501:GTP:C5	3.01	0.48
3:FH:87:PRO:HA	3:FH:90:PHE:CD2	2.48	0.48
4:FI:318:LEU:HB2	4:FI:376:CYS:HB3	1.95	0.48
11:Fa:409:ARG:HB2	11:Fb:289:THR:HG21	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Fc:120:SER:O	11:Fc:124:MET:HE3	2.13	0.48
11:Fi:174:LYS:NZ	11:Fi:240:ILE:HD11	2.19	0.48
11:Fk:442:GLN:OE1	11:Fk:446:MET:HE1	2.14	0.48
13:G2:511:TYR:HD1	13:G2:514:LYS:HD2	1.79	0.48
13:G3:87:PRO:HG2	13:G3:89:HIS:HB3	1.94	0.48
14:G6:633:GLU:HB3	14:G6:699:TRP:CZ2	2.47	0.48
4:GA:324:VAL:HB	4:GA:326:LYS:HE2	1.96	0.48
3:GB:148:GLY:O	3:GB:152:ILE:HG12	2.13	0.48
3:GB:378:PHE:CD1	3:GB:419:VAL:HG22	2.49	0.48
4:GC:272:TYR:HE1	4:GC:374:ALA:HB1	1.77	0.48
3:GD:21:TRP:CZ2	3:GD:63:ALA:HB2	2.49	0.48
4:GI:91:GLN:OE1	4:GI:92:LEU:HD12	2.12	0.48
4:GI:433:GLU:O	4:GI:437:VAL:N	2.42	0.48
3:GJ:6:HIS:HB3	3:GJ:21:TRP:HZ2	1.78	0.48
3:GJ:16:ILE:HD13	3:GJ:226:ASN:ND2	2.28	0.48
4:GK:363:VAL:H	4:GK:368:LEU:HD21	1.78	0.48
15:H1:244:MET:HG3	15:H1:247:PHE:CD2	2.49	0.48
15:H4:310:LYS:NZ	15:H4:314:ARG:HG2	2.29	0.48
15:H6:250:ASN:HB2	15:H6:254:PHE:CZ	2.49	0.48
3:HB:217:LEU:HD11	3:HB:220:PRO:HB3	1.94	0.48
4:HC:316:CYS:HB3	4:HC:378:LEU:HB2	1.94	0.48
4:HE:144:GLY:HA3	39:HE:501:GTP:O3G	2.14	0.48
4:HI:216:ASN:OD1	4:HI:217:LEU:N	2.47	0.48
4:IA:256:GLN:O	4:IA:260:VAL:HG12	2.13	0.48
3:IB:290:THR:HA	3:IB:293:MET:HG3	1.95	0.48
4:IC:346:TRP:HE1	3:ID:391:ARG:NH1	2.11	0.48
4:IE:254:GLU:OE1	4:IE:254:GLU:N	2.42	0.48
4:IE:398:MET:O	4:IE:402:ARG:N	2.46	0.48
3:IF:249:ASP:OD2	3:IF:251:ARG:HB2	2.13	0.48
3:IF:252:LYS:HD3	4:IG:100:ALA:HA	1.94	0.48
3:IH:91:VAL:HG11	3:IH:116:VAL:HG12	1.96	0.48
3:IH:324:LYS:HD3	4:II:210:TYR:HE1	1.79	0.48
4:II:346:TRP:NE1	3:IJ:393:ALA:HB2	2.27	0.48
4:II:388:TRP:HA	4:II:391:LEU:HD12	1.96	0.48
4:IK:265:ILE:HD12	4:IK:432:TYR:CE1	2.48	0.48
3:IL:272:PRO:HA	3:IL:292:GLN:OE1	2.14	0.48
4:IM:196:GLU:OE1	4:IM:196:GLU:N	2.35	0.48
4:IM:213:CYS:HA	4:IM:217:LEU:HB2	1.95	0.48
19:J1:87:ILE:HA	19:J1:90:HIS:ND1	2.29	0.48
19:J3:32:ASN:OD1	19:J3:33:SER:N	2.41	0.48
4:JC:12:ALA:HB1	39:JC:501:GTP:C4	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JD:300:MET:N	3:JD:300:MET:SD	2.87	0.48
3:JF:19:LYS:NZ	3:JF:223:GLY:O	2.46	0.48
3:JF:175:VAL:HG22	3:JF:177:ASP:H	1.78	0.48
4:JG:186:ASN:OD1	4:JG:187:SER:N	2.47	0.48
4:JI:115:VAL:HA	4:JI:118:VAL:HG22	1.94	0.48
3:JJ:420:SER:O	3:JJ:424:GLN:N	2.40	0.48
4:JK:286:LEU:HD11	4:JK:373:ARG:H	1.79	0.48
4:JK:311:LYS:NZ	4:JK:343:PHE:O	2.46	0.48
21:K2:375:ARG:HA	21:K2:378:ILE:HG12	1.95	0.48
21:K3:401:TYR:HE1	21:K4:129:HIS:HB3	1.79	0.48
21:K3:479:ARG:HG3	21:K3:480:LEU:HG	1.93	0.48
3:KB:249:ASP:O	3:KB:252:LYS:HB3	2.14	0.48
4:KC:214:ARG:NH1	4:KC:215:ARG:HG3	2.29	0.48
3:KD:114:ASP:OD1	3:KD:115:SER:N	2.46	0.48
3:KD:324:LYS:HD3	4:KE:210:TYR:CE1	2.49	0.48
3:KD:404:ASP:O	3:KD:407:GLU:HG2	2.13	0.48
4:KE:402:ARG:HH21	31:R1:124:ASN:HB2	1.79	0.48
3:KF:350:LYS:NZ	4:KG:181:VAL:HG13	2.29	0.48
4:KG:216:ASN:OD1	4:KG:217:LEU:N	2.46	0.48
3:KH:81:PHE:O	3:KH:84:ILE:HG22	2.13	0.48
22:L1:95:PRO:HG3	3:LB:389:PHE:O	2.13	0.48
22:L1:141:LEU:C	22:L1:142:PHE:HD1	2.22	0.48
22:L2:123:PRO:O	22:L2:136:LEU:HB3	2.13	0.48
22:L2:177:GLN:O	22:L2:181:LYS:HG2	2.12	0.48
22:L3:64:LYS:H	22:L3:68:LYS:NZ	2.12	0.48
22:L3:236:GLN:HA	22:L3:239:HIS:HE1	1.78	0.48
4:LA:273:ALA:HB2	4:LA:295:CYS:HB3	1.95	0.48
4:LA:333:ALA:HA	4:LA:336:LYS:HD2	1.96	0.48
3:LB:178:THR:HB	3:LB:181:GLU:HB2	1.96	0.48
4:LC:151:SER:O	4:LC:155:GLU:HG2	2.13	0.48
3:LD:12:CYS:HB3	39:LD:501:GTP:C5'	2.42	0.48
3:LD:133:PHE:HD2	3:LD:164:MET:HE1	1.79	0.48
4:LI:390:ARG:HA	4:LI:393:HIS:CD2	2.48	0.48
4:LK:101:ASN:HA	4:LK:144:GLY:HA2	1.94	0.48
4:LK:433:GLU:O	4:LK:437:VAL:N	2.47	0.48
3:LL:139:LEU:N	3:LL:168:SER:OG	2.46	0.48
3:LL:164:MET:SD	3:LL:164:MET:N	2.87	0.48
24:M2:55:ARG:HA	24:M2:55:ARG:HD2	1.66	0.48
3:MB:172:SER:OG	3:MB:205:GLU:OE2	2.22	0.48
3:MD:52:ASN:CG	3:MD:62:ARG:HD3	2.38	0.48
3:MD:269:GLY:HA2	3:MD:300:MET:HE1	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MD:307:HIS:CE1	28:O1:9:GLN:HE21	2.32	0.48
4:ME:132:LEU:HD21	4:ME:135:PHE:CE1	2.48	0.48
4:MG:105:ARG:O	4:MG:109:THR:OG1	2.21	0.48
4:MG:160:ASP:OD1	4:MG:161:TYR:N	2.47	0.48
26:N3:157:TYR:OH	3:VH:45:GLU:HA	2.13	0.48
4:NA:176:GLN:NE2	4:NA:207:GLU:OE2	2.46	0.48
4:NA:216:ASN:ND2	4:NA:275:VAL:O	2.47	0.48
4:NC:5:ILE:HD13	4:NC:64:ARG:HB3	1.96	0.48
3:ND:282:ARG:NH2	3:ND:292:GLN:OE1	2.28	0.48
4:NE:139:HIS:CD2	4:NE:170:ALA:HB2	2.49	0.48
3:NF:286:VAL:HG21	3:NF:325:GLU:HG3	1.95	0.48
3:NH:19:LYS:NZ	3:NH:223:GLY:O	2.46	0.48
4:NK:286:LEU:HD11	4:NK:373:ARG:H	1.78	0.48
4:NK:371:VAL:HG11	4:NK:374:ALA:HB2	1.96	0.48
3:NL:323:MET:SD	3:NL:323:MET:N	2.83	0.48
28:O2:81:LEU:HB3	28:O2:115:GLY:HA3	1.96	0.48
28:O3:37:GLY:C	30:Q3:1414:LEU:HG	2.39	0.48
3:OD:11:GLN:HG3	39:OD:501:GTP:PA	2.54	0.48
3:OF:267:MET:O	3:OF:369:GLY:N	2.39	0.48
3:OJ:285:THR:O	3:OJ:288:GLU:HG3	2.14	0.48
4:OK:11:GLN:OE1	4:OK:11:GLN:N	2.47	0.48
4:OK:76:ASP:OD1	4:OK:79:ARG:NH1	2.47	0.48
4:OK:260:VAL:O	3:OL:397:TRP:HH2	1.97	0.48
4:OK:329:ASN:OD1	4:OK:330:ALA:N	2.46	0.48
27:P:300:GLU:O	27:P:304:GLN:HG2	2.14	0.48
29:P2:35:ASP:OD2	29:P2:38:HIS:ND1	2.39	0.48
4:PA:371:VAL:HG11	4:PA:374:ALA:HB2	1.95	0.48
4:PA:420:GLU:HA	4:PA:423:GLU:OE2	2.13	0.48
3:PB:114:ASP:OD1	3:PB:115:SER:N	2.46	0.48
4:PC:75:VAL:HG22	4:PC:79:ARG:HH21	1.79	0.48
4:PC:202:PHE:HD1	4:PC:268:PRO:HD2	1.79	0.48
4:PG:262:TYR:HE1	3:PH:393:ALA:HA	1.79	0.48
4:PG:295:CYS:HB2	4:PG:377:MET:HE3	1.96	0.48
4:PG:318:LEU:O	4:PG:375:VAL:HA	2.14	0.48
4:PI:208:ALA:HA	4:PI:211:ASP:HB2	1.96	0.48
4:PI:405:VAL:O	4:PI:409:VAL:HG22	2.14	0.48
4:PK:154:MET:HE2	4:PK:166:LYS:HZ3	1.79	0.48
4:PK:319:TYR:N	4:PK:354:GLY:O	2.47	0.48
3:PL:391:ARG:C	3:PL:392:LYS:HG3	2.38	0.48
30:Q3:1408:LYS:HZ1	30:Q3:1513:ALA:HA	1.79	0.48
30:Q3:1469:LEU:N	30:Q3:1504:LYS:HB3	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:QC:30:ILE:HG13	4:QC:53:PHE:HE2	1.78	0.48
4:QE:423:GLU:HA	4:QE:426:ALA:HB3	1.96	0.48
4:QI:22:GLU:HG2	4:QI:83:TYR:CE2	2.48	0.48
4:QI:113:GLU:OE1	4:QI:113:GLU:N	2.46	0.48
3:QJ:286:VAL:HG21	3:QJ:325:GLU:HG3	1.95	0.48
4:QK:204:VAL:HG23	4:QK:302:MET:HG3	1.96	0.48
4:QM:54:SER:N	4:QM:62:VAL:O	2.47	0.48
4:RC:139:HIS:CD2	4:RC:170:ALA:HB2	2.49	0.48
4:RC:260:VAL:HG23	4:RC:265:ILE:O	2.13	0.48
4:RC:351:PHE:CE1	3:RD:175:VAL:HG23	2.48	0.48
3:RD:304:ASP:O	3:RD:307:HIS:ND1	2.45	0.48
4:RE:50:ASN:OD1	4:RE:51:THR:N	2.46	0.48
4:RE:81:GLY:O	4:RE:84:ARG:NH1	2.47	0.48
4:RE:405:VAL:O	4:RE:409:VAL:HG22	2.13	0.48
4:RG:1:MET:SD	4:RG:2:ARG:N	2.87	0.48
4:RG:351:PHE:HZ	3:RH:175:VAL:HB	1.78	0.48
3:RH:8:GLN:NE2	3:RH:13:GLY:C	2.72	0.48
3:RJ:268:PRO:HD2	3:RJ:301:ALA:HB2	1.96	0.48
4:RK:145:THR:OG1	39:RK:501:GTP:O1B	2.32	0.48
4:RM:154:MET:HA	4:RM:157:LEU:HG	1.95	0.48
4:SE:81:GLY:O	4:SE:84:ARG:NH1	2.47	0.48
4:SE:210:TYR:OH	4:SE:221:ARG:NH2	2.46	0.48
4:SE:272:TYR:CZ	4:SE:274:PRO:HG2	2.48	0.48
4:SG:12:ALA:HB1	39:SG:501:GTP:N3	2.29	0.48
4:SI:150:ALA:HA	4:SI:153:LEU:HG	1.94	0.48
3:SJ:258:VAL:O	4:SK:407:TRP:NE1	2.46	0.48
4:SK:329:ASN:OD1	4:SK:330:ALA:N	2.47	0.48
4:SM:154:MET:HA	4:SM:157:LEU:HG	1.95	0.48
4:TC:160:ASP:OD1	4:TC:161:TYR:N	2.47	0.48
4:TC:427:ALA:O	4:TC:431:ASP:N	2.47	0.48
4:TE:93:ILE:HG13	4:TE:118:VAL:HG12	1.95	0.48
4:TE:324:VAL:HG21	3:TF:219:THR:HG22	1.95	0.48
4:TG:161:TYR:HB3	4:TG:164:LYS:HZ3	1.79	0.48
3:TH:81:PHE:O	3:TH:84:ILE:HG22	2.13	0.48
3:TJ:114:ASP:OD1	3:TJ:114:ASP:N	2.45	0.48
3:TJ:323:MET:HE1	4:TK:224:TYR:N	2.29	0.48
4:TK:90:GLU:CD	4:UI:280:LYS:HZ2	2.21	0.48
4:TK:139:HIS:CD2	4:TK:170:ALA:HB2	2.49	0.48
4:TK:152:LEU:O	4:TK:156:ARG:NH1	2.46	0.48
3:TL:176:SER:O	3:TL:178:THR:N	2.46	0.48
3:TN:52:ASN:OD1	3:TN:62:ARG:NH1	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TN:269:GLY:HA2	3:TN:300:MET:HE1	1.96	0.48
3:TN:406:MET:O	3:TN:409:THR:OG1	2.22	0.48
4:UC:129:CYS:SG	4:UC:132:LEU:HD12	2.54	0.48
3:UD:4:ILE:HB	3:UD:50:TYR:CE1	2.48	0.48
4:UE:392:ASP:HB2	4:UE:422:ARG:NH2	2.28	0.48
3:UH:261:PRO:HD3	4:UI:406:HIS:CG	2.49	0.48
4:UI:36:MET:HG3	4:UI:41:THR:OG1	2.13	0.48
3:UL:282:ARG:HE	3:UL:288:GLU:CD	2.22	0.48
3:UL:285:THR:O	3:UL:288:GLU:HG3	2.13	0.48
4:VE:287:SER:N	4:VE:290:GLU:OE2	2.46	0.48
3:VF:317:PHE:HB3	3:VF:321:MET:HE3	1.96	0.48
3:VF:324:LYS:HE2	4:VG:222:PRO:CD	2.43	0.48
4:VG:396:ASP:OD1	4:VG:397:LEU:N	2.47	0.48
3:VJ:11:GLN:HG3	39:VJ:501:GTP:PA	2.54	0.48
3:VL:81:PHE:O	3:VL:84:ILE:HG22	2.12	0.48
33:W:207:ARG:O	33:W:210:GLN:HG2	2.13	0.48
4:WA:113:GLU:OE1	4:WA:113:GLU:N	2.44	0.48
4:WA:216:ASN:HD21	4:WA:275:VAL:HG23	1.79	0.48
3:WD:139:LEU:N	3:WD:168:SER:OG	2.47	0.48
3:WD:172:SER:OG	3:WD:205:GLU:OE2	2.24	0.48
3:WD:189:VAL:HA	3:WD:192:LEU:HB2	1.95	0.48
3:WF:10:GLY:H	3:WF:147:MET:HE1	1.78	0.48
3:WF:272:PRO:HA	3:WF:292:GLN:OE1	2.13	0.48
4:WG:139:HIS:CD2	4:WG:170:ALA:HB2	2.48	0.48
4:WK:5:ILE:HD13	4:WK:64:ARG:HB3	1.96	0.48
4:WK:263:PRO:HD3	3:WL:396:HIS:CD2	2.48	0.48
3:WL:94:GLN:O	35:XM:73:SER:N	2.39	0.48
3:WL:183:TYR:CZ	3:WL:388:MET:HG3	2.49	0.48
34:XA:76:LEU:HD13	34:XA:167:PHE:HD1	1.79	0.48
35:XJ:163:SER:O	35:XJ:219:TYR:OH	2.24	0.48
35:XK:84:ILE:HD11	35:XK:121:HIS:HB2	1.96	0.48
37:YE:68:MET:O	37:YE:72:ILE:HG13	2.14	0.48
37:YG:8:LEU:HA	37:YG:11:ILE:HD12	1.96	0.48
37:YQ:157:LYS:NZ	37:YR:108:ASN:HA	2.28	0.48
37:YU:124:HIS:O	37:YU:124:HIS:ND1	2.46	0.48
1:A:30:VAL:HA	1:A:33:LYS:HE3	1.95	0.48
1:A:163:MET:HA	1:A:166:HIS:NE2	2.28	0.48
2:A1:152:ARG:NH1	17:I1:76:ASN:OD1	2.47	0.48
2:A2:255:ARG:O	2:A2:259:VAL:HG23	2.13	0.48
2:A2:315:THR:HG21	2:A3:198:ILE:HG23	1.95	0.48
2:A3:179:PHE:HA	2:A3:182:ILE:HD12	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A3:386:ASP:N	2:A3:386:ASP:OD1	2.45	0.48
4:AC:206:ASN:HA	4:AC:209:ILE:HD12	1.96	0.48
4:AC:230:LEU:O	4:AC:234:ILE:HG12	2.14	0.48
3:AD:81:PHE:O	3:AD:84:ILE:HG22	2.13	0.48
3:AD:114:ASP:OD1	3:AD:115:SER:N	2.45	0.48
3:AF:31:ASP:OD2	3:AF:35:THR:OG1	2.30	0.48
3:AF:309:ARG:HH21	3:AF:426:GLN:HG2	1.79	0.48
3:AF:318:ARG:HD3	3:AF:358:PRO:HG3	1.95	0.48
3:AH:318:ARG:C	3:AH:321:MET:HE1	2.39	0.48
4:AI:287:SER:N	4:AI:290:GLU:OE2	2.47	0.48
3:AJ:50:TYR:HE2	3:AJ:241:ARG:HE	1.62	0.48
3:AL:328:GLU:OE1	3:AL:332:ASN:ND2	2.44	0.48
4:AM:54:SER:N	4:AM:62:VAL:O	2.46	0.48
4:AM:68:VAL:HG12	4:AM:93:ILE:HB	1.96	0.48
1:B:355:GLU:HA	1:B:358:MET:HB2	1.95	0.48
1:B:404:HIS:O	1:B:408:VAL:HG23	2.14	0.48
5:B1:321:ARG:NH1	5:B1:332:ASP:OD1	2.36	0.48
5:B2:167:GLU:HA	5:B2:170:GLN:HG3	1.96	0.48
5:B3:333:GLN:HA	5:B3:336:TYR:HD2	1.78	0.48
5:B7:141:VAL:O	5:B7:145:GLU:HG2	2.14	0.48
5:B9:333:GLN:H	5:B9:333:GLN:CD	2.22	0.48
5:B9:341:GLU:O	5:B9:344:GLN:HG2	2.14	0.48
3:BD:324:LYS:HE2	4:BE:222:PRO:CD	2.44	0.48
4:BE:265:ILE:HD12	4:BE:432:TYR:HE1	1.79	0.48
3:BF:240:LEU:HA	3:BF:248:ALA:HB1	1.96	0.48
4:BG:36:MET:HE3	4:BG:37:PRO:HD3	1.94	0.48
4:BG:104:ALA:O	4:BG:108:TYR:N	2.45	0.48
3:BH:32:PRO:O	3:BH:83:GLN:NE2	2.45	0.48
4:BI:254:GLU:OE1	4:BI:254:GLU:N	2.38	0.48
3:BJ:318:ARG:C	3:BJ:321:MET:HE1	2.38	0.48
4:BK:12:ALA:HB1	39:BK:501:GTP:N2	2.29	0.48
3:BL:51:TYR:CD1	3:BL:61:PRO:HA	2.49	0.48
3:BL:246:LEU:HD22	3:BL:354:CYS:HA	1.96	0.48
6:C:264:LYS:NZ	6:C:361:ARG:HH12	2.12	0.48
7:C1:129:GLN:O	7:C1:133:GLN:NE2	2.46	0.48
7:C4:384:LYS:HA	7:C4:387:LYS:HE2	1.95	0.48
7:C6:107:PHE:HE1	7:C7:361:ILE:HG12	1.79	0.48
7:C6:179:ARG:O	7:C6:183:ARG:NH1	2.46	0.48
7:C7:478:ASN:HB3	8:D7:410:MET:HE1	1.96	0.48
7:C9:179:ARG:O	7:C9:183:ARG:NH1	2.47	0.48
3:CB:2:ARG:HA	3:CB:129:CYS:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CB:266:PHE:HB3	3:CB:368:ILE:HD11	1.96	0.48
4:CC:35:GLN:HG2	4:CC:59:GLY:O	2.14	0.48
4:CC:272:TYR:CE1	4:CC:374:ALA:HB1	2.48	0.48
4:CC:390:ARG:HA	4:CC:393:HIS:CE1	2.49	0.48
4:CG:271:THR:HB	4:CG:377:MET:HE3	1.96	0.48
3:CH:12:CYS:HB3	39:CH:501:GTP:O4'	2.14	0.48
3:CJ:139:LEU:N	3:CJ:168:SER:OG	2.47	0.48
4:CK:346:TRP:HH2	4:CK:435:VAL:HA	1.79	0.48
3:CL:32:PRO:HB3	3:CL:80:PRO:O	2.13	0.48
4:CM:166:LYS:N	4:CM:199:ASP:OD2	2.47	0.48
4:CM:196:GLU:HG2	4:CM:197:HIS:ND1	2.29	0.48
7:Ca:477:ARG:HD2	7:Ca:477:ARG:O	2.13	0.48
7:Cb:426:GLU:O	7:Cb:429:GLU:HG3	2.14	0.48
8:D2:211:CYS:HA	8:D2:214:ASN:ND2	2.28	0.48
4:DA:167:LEU:HB3	4:DA:169:PHE:CZ	2.49	0.48
3:DB:46:ARG:HH12	4:DC:73:THR:HG23	1.78	0.48
3:DD:324:LYS:HE2	4:DE:222:PRO:HG2	1.96	0.48
4:DE:36:MET:HG3	4:DE:41:THR:OG1	2.14	0.48
4:DE:331:ALA:O	4:DE:334:THR:OG1	2.24	0.48
3:DF:3:GLU:OE2	3:DF:127:CYS:HB2	2.14	0.48
4:DI:427:ALA:HA	4:DI:430:LYS:HG2	1.96	0.48
4:DK:208:ALA:H	4:DK:304:LYS:HZ1	1.61	0.48
3:DL:11:GLN:HG3	39:DL:501:GTP:PA	2.53	0.48
3:DL:28:HIS:O	3:DL:43:GLN:NE2	2.46	0.48
3:DL:172:SER:OG	3:DL:205:GLU:OE2	2.24	0.48
3:DL:268:PRO:HD2	3:DL:301:ALA:HB2	1.95	0.48
3:DL:357:PRO:HB3	3:DL:362:LYS:HA	1.94	0.48
4:EC:2:ARG:NH1	4:EC:241:SER:O	2.46	0.48
3:ED:114:ASP:OD1	3:ED:115:SER:N	2.45	0.48
3:EL:217:LEU:HB2	13:G3:392:ASP:OD2	2.14	0.48
11:F1:434:LEU:O	11:F1:438:GLN:HG2	2.14	0.48
11:F2:360:GLN:HA	11:F2:363:LYS:HG2	1.94	0.48
11:F2:365:LEU:O	11:F2:368:ILE:HG12	2.13	0.48
11:F2:387:TYR:OH	11:F3:272:SER:HB2	2.14	0.48
11:F2:396:LEU:O	11:F2:400:THR:HG23	2.13	0.48
11:F3:233:ALA:O	11:F3:236:ILE:HG12	2.14	0.48
11:F4:177:LEU:HD21	11:F4:233:ALA:HB2	1.95	0.48
11:F5:187:PRO:HA	11:F5:190:VAL:HB	1.95	0.48
11:F6:244:ARG:NH1	11:F6:248:HIS:HB2	2.29	0.48
11:F7:236:ILE:O	11:F7:240:ILE:HG12	2.13	0.48
4:FA:47:ASP:HB3	4:FA:49:PHE:CE2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FA:49:PHE:CE1	4:FA:55:GLU:HB3	2.49	0.48
4:FA:89:PRO:HD2	4:GA:280:LYS:HZ3	1.79	0.48
4:FA:185:TYR:HA	4:FA:395:PHE:HE1	1.78	0.48
3:FB:17:GLY:O	3:FB:21:TRP:N	2.37	0.48
4:FC:53:PHE:O	4:FC:64:ARG:NH1	2.46	0.48
4:FC:70:LEU:HB3	4:FC:97:GLU:O	2.13	0.48
4:FC:212:ILE:HG13	4:FC:215:ARG:NH2	2.28	0.48
4:FE:269:LEU:N	4:FE:379:SER:O	2.28	0.48
4:FE:272:TYR:HE1	4:FE:374:ALA:HB1	1.79	0.48
3:FF:288:GLU:HG3	3:FF:289:LEU:HD12	1.96	0.48
3:FF:376:GLU:H	3:FF:376:GLU:CD	2.21	0.48
4:FG:254:GLU:OE1	4:FG:254:GLU:N	2.42	0.48
3:FH:11:GLN:HE21	39:FH:501:GTP:H3'	1.78	0.48
4:FI:140:SER:HB2	4:FI:171:ILE:HG22	1.95	0.48
3:FJ:11:GLN:HG3	39:FJ:501:GTP:PA	2.54	0.48
11:Fa:231:LYS:O	11:Fa:235:ARG:HD3	2.13	0.48
11:Fa:433:ARG:O	11:Fa:436:GLU:HG2	2.14	0.48
11:Fc:331:GLN:O	11:Fc:334:LYS:HG2	2.14	0.48
11:Ff:127:LYS:HD2	11:Fg:385:LYS:HE3	1.95	0.48
11:Ff:228:GLN:HA	11:Ff:231:LYS:HD2	1.95	0.48
11:Fg:213:LYS:HA	11:Fg:216:ILE:HD12	1.96	0.48
12:G:200:LEU:HA	12:G:203:ARG:HB2	1.95	0.48
13:G1:395:GLN:OE1	13:G1:406:ARG:NH2	2.47	0.48
13:G1:516:MET:HE1	13:G1:531:ILE:HG21	1.96	0.48
13:G2:409:VAL:HA	13:G2:412:MET:HG2	1.95	0.48
14:G5:462:THR:HG22	14:G5:485:ARG:N	2.29	0.48
14:G5:737:ASP:N	14:G5:737:ASP:OD1	2.44	0.48
14:G6:211:ARG:O	14:G6:211:ARG:HD3	2.13	0.48
14:G6:361:LYS:HG3	14:G6:373:PHE:CD2	2.49	0.48
4:GC:419:SER:HA	4:GC:422:ARG:HH21	1.79	0.48
3:GH:419:VAL:HG12	3:GH:423:GLN:NE2	2.27	0.48
4:GI:70:LEU:HA	4:GI:95:GLY:HA3	1.96	0.48
4:GI:141:PHE:HB2	4:GI:173:PRO:HD3	1.95	0.48
3:GJ:2:ARG:HA	3:GJ:129:CYS:O	2.13	0.48
4:GK:297:GLU:HB3	4:GK:300:ASN:OD1	2.13	0.48
3:GL:81:PHE:O	3:GL:84:ILE:HG22	2.13	0.48
15:H1:291:SER:HB3	15:H1:315:ARG:HH11	1.79	0.48
4:HA:5:ILE:HB	4:HA:135:PHE:HD1	1.79	0.48
4:HA:189:LEU:HD21	4:HA:418:PHE:CD1	2.49	0.48
4:HA:206:ASN:OD1	4:HA:207:GLU:N	2.46	0.48
4:HA:287:SER:OG	4:HA:290:GLU:OE1	2.23	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HC:47:ASP:CG	4:HC:48:SER:H	2.22	0.48
4:HC:102:ASN:HD22	4:HC:105:ARG:HG3	1.77	0.48
3:HD:302:ALA:HB1	3:HD:377:LEU:HD11	1.96	0.48
4:HE:216:ASN:ND2	4:HE:275:VAL:O	2.46	0.48
4:HG:318:LEU:O	4:HG:375:VAL:HA	2.14	0.48
3:HH:2:ARG:NH2	4:HI:97:GLU:HA	2.27	0.48
3:HJ:224:ASP:O	3:HJ:228:LEU:HG	2.13	0.48
4:HK:10:GLY:O	4:HK:13:GLY:N	2.45	0.48
4:HK:237:SER:HG	4:HK:376:CYS:HG	1.46	0.48
4:IC:70:LEU:HA	4:IC:95:GLY:HA3	1.96	0.48
3:ID:106:TYR:HB2	3:ID:401:GLU:OE2	2.14	0.48
3:IH:309:ARG:HH22	3:IH:344:TRP:HZ3	1.61	0.48
3:IH:357:PRO:HB3	3:IH:362:LYS:HA	1.94	0.48
4:IM:208:ALA:H	4:IM:304:LYS:NZ	2.11	0.48
4:IM:268:PRO:HB2	4:IM:378:LEU:HD11	1.96	0.48
4:JG:10:GLY:O	4:JG:14:VAL:HG13	2.14	0.48
3:JJ:46:ARG:HH22	4:JK:73:THR:HA	1.78	0.48
3:JJ:166:THR:OG1	3:JJ:198:GLU:O	2.30	0.48
3:JL:175:VAL:HG22	3:JL:177:ASP:H	1.79	0.48
21:K2:270:PRO:HA	37:YD:160:ARG:NE	2.29	0.48
21:K3:189:GLU:CG	21:K3:190:LYS:H	2.23	0.48
4:KE:397:LEU:O	4:KE:401:LYS:HG2	2.13	0.48
4:KG:254:GLU:OE1	4:KG:254:GLU:N	2.43	0.48
4:KI:115:VAL:HA	4:KI:118:VAL:HG22	1.94	0.48
3:KL:39:ASP:OD1	3:KL:39:ASP:N	2.45	0.48
20:L:24:GLU:HA	20:L:27:ARG:HG2	1.96	0.48
20:L:169:HIS:NE2	20:L:227:THR:HG22	2.29	0.48
22:L3:62:PHE:O	22:L3:64:LYS:HD2	2.14	0.48
4:LA:16:ILE:HG22	4:LA:228:ASN:OD1	2.12	0.48
4:LC:12:ALA:HB1	39:LC:501:GTP:C2	2.49	0.48
3:LF:289:LEU:HD21	3:LF:363:MET:HB3	1.95	0.48
4:LI:336:LYS:HG2	4:LI:351:PHE:CE2	2.49	0.48
4:LI:406:HIS:HA	4:LI:409:VAL:HG22	1.95	0.48
3:LJ:304:ASP:HB3	3:LJ:307:HIS:CE1	2.49	0.48
4:LK:132:LEU:HD11	28:O3:22:TRP:CZ2	2.49	0.48
4:LK:208:ALA:HA	4:LK:211:ASP:HB2	1.96	0.48
4:LK:213:CYS:SG	4:LK:222:PRO:HG3	2.54	0.48
4:LK:245:ASP:OD1	4:LK:249:ASN:ND2	2.43	0.48
3:MD:271:ALA:HB2	3:MD:365:ALA:HB3	1.96	0.48
3:MD:357:PRO:HB3	3:MD:362:LYS:HA	1.96	0.48
4:ME:1:MET:SD	4:ME:2:ARG:N	2.86	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ME:208:ALA:H	4:ME:304:LYS:NZ	2.11	0.48
3:MF:114:ASP:N	3:MF:114:ASP:OD1	2.46	0.48
4:MG:187:SER:O	4:MG:190:THR:OG1	2.21	0.48
3:MH:218:THR:OG1	3:MH:219:THR:N	2.46	0.48
4:MI:49:PHE:CE1	4:MI:55:GLU:HB3	2.49	0.48
3:MJ:258:VAL:HG13	3:MJ:263:LEU:HB2	1.94	0.48
4:MM:207:GLU:HB2	4:MM:304:LYS:HZ1	1.79	0.48
4:MM:398:MET:O	4:MM:402:ARG:N	2.47	0.48
26:N4:76:ALA:HB1	26:N4:95:HIS:HA	1.94	0.48
3:NB:6:HIS:HB3	3:NB:21:TRP:HZ2	1.79	0.48
3:NB:46:ARG:HH22	4:NC:73:THR:HG23	1.78	0.48
3:NB:246:LEU:HD22	3:NB:354:CYS:HA	1.95	0.48
3:ND:11:GLN:C	3:ND:15:GLN:HE21	2.16	0.48
4:NE:88:HIS:CE1	4:NE:121:ARG:HH22	2.31	0.48
4:NE:261:PRO:HA	3:NF:394:PHE:CE1	2.49	0.48
4:NG:166:LYS:N	4:NG:199:ASP:OD2	2.47	0.48
3:NH:251:ARG:HE	3:NH:251:ARG:HA	1.78	0.48
28:O1:16:PRO:HA	28:O1:19:LEU:HB2	1.95	0.48
28:O3:89:ALA:HA	28:O3:92:LEU:HD12	1.96	0.48
4:OA:362:VAL:HA	4:OA:368:LEU:HD21	1.95	0.48
3:OB:24:ILE:HG23	3:OB:28:HIS:HD2	1.79	0.48
3:OB:132:GLY:HA3	3:OB:163:ILE:HB	1.96	0.48
4:OC:187:SER:O	4:OC:190:THR:OG1	2.24	0.48
4:OC:315:CYS:HB3	4:OC:377:MET:HE1	1.94	0.48
3:OF:12:CYS:HA	39:OF:501:GTP:N2	2.29	0.48
3:OH:254:ALA:O	3:OH:258:VAL:HG12	2.14	0.48
4:OK:135:PHE:CE2	4:OK:164:LYS:HD2	2.48	0.48
27:P:301:GLU:O	27:P:305:HIS:ND1	2.43	0.48
29:P2:49:ILE:O	29:P2:58:ASN:N	2.43	0.48
4:PC:105:ARG:O	4:PC:109:THR:OG1	2.25	0.48
4:PC:318:LEU:O	4:PC:375:VAL:HA	2.14	0.48
3:PD:52:ASN:CG	3:PD:62:ARG:HD3	2.39	0.48
3:PD:324:LYS:HD2	4:PE:221:ARG:HA	1.95	0.48
4:PE:79:ARG:O	4:PE:84:ARG:HG3	2.13	0.48
3:PF:12:CYS:HB3	39:PF:501:GTP:H5'	1.95	0.48
3:PF:170:VAL:N	3:PF:202:ILE:O	2.40	0.48
3:PF:189:VAL:HA	3:PF:192:LEU:HB2	1.95	0.48
3:PF:309:ARG:N	3:PF:372:THR:OG1	2.31	0.48
4:PG:105:ARG:O	4:PG:109:THR:OG1	2.25	0.48
3:PH:247:ASN:HB3	3:PH:252:LYS:HG2	1.96	0.48
4:PK:172:TYR:N	4:PK:204:VAL:O	2.32	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Q:170:ARG:HE	27:Q:174:ARG:NH1	2.12	0.48
3:QB:73:MET:HA	3:QB:76:VAL:HG22	1.96	0.48
3:QF:173:PRO:HD3	3:QF:203:ASP:OD1	2.13	0.48
4:QG:265:ILE:HD12	4:QG:432:TYR:CE1	2.48	0.48
4:QG:279:GLU:HA	4:QG:282:TYR:HB3	1.96	0.48
4:QI:318:LEU:O	4:QI:375:VAL:HA	2.14	0.48
3:RB:155:ILE:HA	3:RB:158:GLU:HG2	1.95	0.48
3:RB:239:CYS:SG	3:RB:316:VAL:HG11	2.53	0.48
4:RC:35:GLN:HG2	4:RC:59:GLY:O	2.13	0.48
4:RC:49:PHE:O	4:RC:53:PHE:N	2.46	0.48
4:RC:288:VAL:O	4:RC:292:THR:OG1	2.17	0.48
3:RD:145:SER:HB2	3:RD:188:SER:HB3	1.96	0.48
3:RD:235:GLY:O	3:RD:238:THR:OG1	2.32	0.48
3:RF:9:ALA:HB3	3:RF:137:HIS:HB3	1.95	0.48
3:RF:130:LEU:HB2	3:RF:162:ARG:HH11	1.79	0.48
4:RG:261:PRO:HA	3:RH:394:PHE:HE1	1.78	0.48
3:RJ:47:ILE:HG12	3:RJ:59:TYR:CD2	2.49	0.48
3:RL:305:PRO:HA	3:RL:373:ALA:HB2	1.95	0.48
3:RL:317:PHE:HB3	3:RL:321:MET:HE3	1.96	0.48
4:RM:216:ASN:HD21	4:RM:275:VAL:HG23	1.79	0.48
3:SF:175:VAL:HG22	3:SF:177:ASP:H	1.78	0.48
4:SG:119:LEU:HD23	4:SG:122:ILE:HD12	1.95	0.48
4:SG:327:ASP:OD1	4:SG:328:VAL:N	2.47	0.48
4:SG:333:ALA:HA	4:SG:336:LYS:HE2	1.95	0.48
4:SK:1:MET:N	4:SK:130:THR:OG1	2.47	0.48
4:SK:35:GLN:HG2	4:SK:59:GLY:O	2.14	0.48
4:SK:216:ASN:ND2	4:SK:275:VAL:O	2.46	0.48
3:SL:12:CYS:SG	39:SL:501:GTP:H5'	2.53	0.48
3:TB:6:HIS:HB3	3:TB:21:TRP:HZ2	1.78	0.48
4:TC:207:GLU:HB2	4:TC:304:LYS:NZ	2.28	0.48
3:TF:284:LEU:O	3:TF:284:LEU:HD12	2.13	0.48
4:TG:30:ILE:HG13	4:TG:53:PHE:HE2	1.78	0.48
4:TG:171:ILE:HD12	4:TG:204:VAL:HG23	1.95	0.48
3:TH:374:ILE:HD11	3:TH:422:TYR:CZ	2.49	0.48
3:TJ:250:LEU:HD13	3:TJ:253:LEU:HD12	1.96	0.48
4:TK:36:MET:HG3	4:TK:41:THR:OG1	2.14	0.48
4:TK:271:THR:HA	4:TK:302:MET:HE1	1.95	0.48
3:TL:131:GLN:HB3	3:TL:163:ILE:HD12	1.96	0.48
33:U:215:GLN:HA	33:U:218:GLN:HB3	1.95	0.48
4:UA:125:LEU:HD13	4:UA:128:LEU:HD21	1.94	0.48
3:UB:378:PHE:CD1	3:UB:419:VAL:HG22	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UC:208:ALA:H	4:UC:304:LYS:NZ	2.09	0.48
3:UF:172:SER:HB3	3:UF:175:VAL:O	2.14	0.48
4:UI:8:HIS:HD2	4:UI:13:GLY:O	1.97	0.48
4:UI:104:ALA:HA	4:UI:107:HIS:HB3	1.95	0.48
3:UJ:47:ILE:HG21	3:UJ:59:TYR:CZ	2.48	0.48
3:UJ:305:PRO:HB2	3:UJ:310:TYR:HE1	1.79	0.48
4:UK:22:GLU:O	4:UK:26:LEU:HD23	2.14	0.48
4:VA:287:SER:N	4:VA:290:GLU:OE2	2.46	0.48
4:VC:1:MET:SD	4:VC:2:ARG:N	2.87	0.48
4:VE:390:ARG:HA	4:VE:393:HIS:CD2	2.48	0.48
4:VG:271:THR:HA	4:VG:302:MET:HE1	1.94	0.48
4:VK:260:VAL:O	3:VL:397:TRP:HH2	1.97	0.48
4:WA:12:ALA:HB1	39:WA:501:GTP:C2	2.48	0.48
3:WB:33:THR:O	3:WB:58:LYS:NZ	2.47	0.48
3:WB:246:LEU:HD22	3:WB:354:CYS:HA	1.95	0.48
3:WD:39:ASP:OD1	3:WD:43:GLN:NE2	2.45	0.48
3:WD:250:LEU:O	3:WD:254:ALA:N	2.38	0.48
3:WD:267:MET:HE1	3:WD:299:MET:SD	2.54	0.48
3:WF:285:THR:O	3:WF:288:GLU:HG3	2.14	0.48
4:WG:47:ASP:HB3	4:WG:49:PHE:CE2	2.49	0.48
4:WG:49:PHE:O	4:WG:53:PHE:N	2.47	0.48
3:WH:239:CYS:SG	3:WH:316:VAL:HG11	2.54	0.48
3:WH:394:PHE:HA	3:WH:397:TRP:HZ3	1.78	0.48
3:WJ:3:GLU:HG2	3:WJ:130:LEU:HD23	1.96	0.48
3:WJ:215:LEU:HD11	3:WJ:228:LEU:HD11	1.94	0.48
35:XJ:102:GLU:O	35:XJ:103:MET:HE2	2.13	0.48
37:YG:11:ILE:HG23	37:YG:14:LYS:HZ1	1.79	0.48
37:YI:41:ARG:NH1	37:YI:44:SER:H	2.12	0.48
37:YI:128:ASP:HA	37:YI:131:ARG:HD3	1.96	0.48
37:YK:76:LEU:HD22	37:YK:144:VAL:HG11	1.95	0.48
37:YM:19:GLN:NE2	37:YM:120:GLU:OE2	2.47	0.48
37:YQ:1:MET:N	37:YQ:3:GLU:OE1	2.32	0.48
37:YT:99:LYS:HG3	37:YT:100:CYS:N	2.29	0.48
36:Z:419:THR:HA	36:Z:422:LYS:HZ3	1.78	0.48
38:a:39:LEU:HG	38:a:42:ARG:NH2	2.29	0.48
38:a:94:LYS:HG3	38:a:96:PHE:HD1	1.78	0.48
2:A3:264:PHE:CZ	2:A3:390:CYS:HB2	2.49	0.48
3:AB:218:THR:OG1	3:AB:219:THR:N	2.46	0.48
4:AC:3:GLU:N	4:AC:133:GLN:OE1	2.47	0.48
4:AC:386:GLU:O	4:AC:390:ARG:HG2	2.14	0.48
3:AF:19:LYS:NZ	3:AF:223:GLY:O	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AG:10:GLY:O	4:AG:14:VAL:HG13	2.14	0.48
3:AH:189:VAL:HA	3:AH:192:LEU:HB2	1.96	0.48
3:AJ:101:TRP:CE3	3:AJ:187:LEU:HD13	2.48	0.48
3:AJ:139:LEU:N	3:AJ:168:SER:OG	2.46	0.48
4:AK:122:ILE:O	4:AK:126:ALA:N	2.47	0.48
4:AK:283:HIS:CE1	4:MK:88:HIS:HA	2.48	0.48
3:AL:150:LEU:O	3:AL:153:SER:OG	2.28	0.48
5:B2:119:LEU:HD13	5:B2:389:LYS:HE3	1.95	0.48
5:B2:304:LEU:HA	5:B2:307:LYS:HE2	1.96	0.48
5:B3:120:ARG:NE	5:B3:120:ARG:HA	2.28	0.48
5:B4:51:ASN:O	5:B4:55:TRP:HD1	1.97	0.48
5:B7:7:LYS:HZ3	8:D7:409:ARG:HH12	1.62	0.48
4:BC:75:VAL:HG22	4:BC:79:ARG:HH21	1.78	0.48
4:BE:88:HIS:HE1	4:BE:90:GLU:HG2	1.79	0.48
4:BE:89:PRO:HD2	4:CE:280:LYS:HZ2	1.78	0.48
3:BF:41:ASP:OD1	3:BF:41:ASP:N	2.46	0.48
3:BH:41:ASP:OD1	3:BH:41:ASP:N	2.45	0.48
4:BI:216:ASN:OD1	4:BI:217:LEU:N	2.47	0.48
3:BJ:117:LEU:HA	3:BJ:120:VAL:HG22	1.94	0.48
3:BJ:252:LYS:HD3	4:BK:101:ASN:ND2	2.29	0.48
3:BL:4:ILE:HB	3:BL:50:TYR:CE1	2.49	0.48
3:BL:11:GLN:HG3	39:BL:501:GTP:PA	2.54	0.48
3:BL:123:GLU:O	3:BL:126:SER:OG	2.28	0.48
7:C1:112:SER:HA	7:C1:115:HIS:ND1	2.28	0.48
7:C1:270:LYS:O	7:C1:274:LEU:HD23	2.14	0.48
7:C2:323:GLU:OE1	7:C2:323:GLU:N	2.32	0.48
7:C6:121:ARG:HH21	10:E1:168:PRO:HD2	1.79	0.48
7:C8:114:ARG:HH22	7:C9:367:LYS:HB2	1.78	0.48
7:C8:249:SER:O	7:C8:252:HIS:HB3	2.12	0.48
3:CB:234:SER:O	3:CB:238:THR:HG23	2.14	0.48
3:CB:361:LEU:HD11	3:CB:364:SER:HB3	1.96	0.48
4:CC:319:TYR:HB2	4:CC:355:ILE:HD13	1.96	0.48
3:CD:249:ASP:O	3:CD:253:LEU:HG	2.14	0.48
3:CD:378:PHE:HA	3:CD:381:ILE:HG22	1.95	0.48
4:CE:18:ASN:O	4:CE:22:GLU:HG3	2.14	0.48
4:CE:243:ARG:HG3	4:CE:244:PHE:CD1	2.49	0.48
4:CE:346:TRP:HH2	4:CE:435:VAL:HA	1.79	0.48
4:CE:402:ARG:HB2	4:CE:405:VAL:HG11	1.96	0.48
3:CF:246:LEU:HB2	3:CF:352:ALA:HB1	1.95	0.48
3:CF:286:VAL:HG12	3:CF:329:GLN:HG3	1.96	0.48
3:CF:306:ARG:HH22	3:CF:340:TYR:HD1	1.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CH:205:GLU:HA	3:CH:208:TYR:HB2	1.96	0.48
3:CH:324:LYS:HD3	4:CI:210:TYR:CE1	2.49	0.48
3:CJ:149:THR:HG21	3:CJ:188:SER:HA	1.96	0.48
4:CK:274:PRO:HG3	4:CK:374:ALA:HA	1.96	0.48
7:Ca:373:PHE:O	7:Ca:376:GLU:HG3	2.14	0.48
7:Cd:152:ASP:O	7:Cd:156:TRP:HD1	1.96	0.48
8:D2:125:SER:HB3	8:D2:208:LYS:HZ3	1.79	0.48
8:D2:272:ARG:HH12	8:D2:273:LEU:HD23	1.79	0.48
8:D3:389:ARG:O	8:D3:393:GLU:HG2	2.14	0.48
8:D8:207:HIS:ND1	8:D8:271:GLU:OE1	2.47	0.48
8:D8:218:LYS:HD2	8:D8:257:TRP:HZ2	1.79	0.48
4:DA:11:GLN:O	4:DA:14:VAL:HG22	2.14	0.48
4:DA:258:ASN:HA	3:DB:394:PHE:HE2	1.79	0.48
4:DA:423:GLU:HA	4:DA:426:ALA:HB3	1.96	0.48
4:DC:21:TRP:HE1	4:DC:65:ALA:HB3	1.78	0.48
3:DD:392:LYS:HD2	3:DD:392:LYS:O	2.13	0.48
3:DF:209:ASP:O	3:DF:213:ARG:HG2	2.14	0.48
3:DF:386:THR:O	3:DF:390:ARG:HG3	2.14	0.48
4:DG:116:ASP:OD1	4:DG:116:ASP:N	2.46	0.48
3:DH:166:THR:OG1	3:DH:198:GLU:O	2.26	0.48
4:DI:145:THR:OG1	39:DI:501:GTP:O1B	2.32	0.48
3:DJ:415:MET:O	3:DJ:419:VAL:HG23	2.13	0.48
9:E:443:SER:HA	3:HB:48:ASN:HD21	1.79	0.48
10:E2:171:SER:C	10:E2:172:LEU:HD22	2.38	0.48
10:E3:182:ASP:OD1	10:E3:183:PHE:N	2.44	0.48
4:EA:30:ILE:HA	4:EA:36:MET:HE1	1.96	0.48
4:EA:331:ALA:O	4:EA:334:THR:OG1	2.28	0.48
4:EC:6:SER:HA	4:EC:136:LEU:HB2	1.96	0.48
3:ED:347:ASN:HB3	4:EE:178:SER:HB3	1.96	0.48
4:EE:141:PHE:HE2	4:EE:203:MET:HG3	1.79	0.48
4:EE:165:SER:C	4:EE:166:LYS:HD2	2.39	0.48
4:EG:329:ASN:HA	4:EG:332:ILE:HG12	1.96	0.48
3:EH:12:CYS:SG	3:EH:13:GLY:N	2.86	0.48
4:EI:53:PHE:O	4:EI:64:ARG:NH1	2.46	0.48
3:EJ:357:PRO:O	3:EJ:359:ARG:NH2	2.47	0.48
4:EK:438:ASP:HA	3:EL:391:ARG:HH12	1.77	0.48
11:F2:209:ASP:HB2	11:F2:346:ARG:NH2	2.28	0.48
11:F7:181:ALA:HB2	11:F7:229:MET:CE	2.44	0.48
11:F8:432:LEU:HA	11:F8:435:ARG:HG2	1.96	0.48
11:F9:409:ARG:NH2	11:Fa:288:GLY:H	2.11	0.48
4:FC:93:ILE:HG13	4:FC:118:VAL:HG12	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FE:196:GLU:OE1	4:FE:196:GLU:N	2.36	0.48
4:FG:99:ALA:HB3	4:FG:144:GLY:O	2.14	0.48
3:FH:218:THR:OG1	3:FH:219:THR:N	2.47	0.48
3:FH:357:PRO:HB3	3:FH:362:LYS:O	2.14	0.48
4:FI:316:CYS:O	4:FI:378:LEU:N	2.39	0.48
4:FI:398:MET:O	4:FI:402:ARG:N	2.47	0.48
4:FK:165:SER:C	4:FK:166:LYS:HD2	2.39	0.48
11:Fa:214:ASN:HB3	11:Fa:335:GLN:OE1	2.13	0.48
11:Fa:254:ILE:HD12	11:Fa:257:LYS:HE3	1.95	0.48
11:Fb:372:GLU:HA	11:Fb:375:ILE:HD12	1.95	0.48
11:Fc:115:ARG:HD3	11:Fc:116:LEU:HD23	1.95	0.48
11:Fg:417:VAL:O	11:Fg:420:VAL:HG12	2.13	0.48
11:Fj:382:ILE:HD13	11:Fj:430:LEU:HD22	1.95	0.48
11:Fl:350:GLU:HG2	11:Fl:354:LYS:HZ2	1.79	0.48
11:Fl:384:ALA:O	11:Fl:388:PRO:HG2	2.13	0.48
11:Fm:307:ALA:O	11:Fm:311:ARG:HG2	2.13	0.48
12:G:215:ARG:HH12	25:N:32:PRO:C	2.15	0.48
12:G:321:LEU:HD21	3:GF:279:GLN:OE1	2.14	0.48
12:G:374:GLU:HA	12:G:377:ARG:HB2	1.95	0.48
12:G:388:GLN:HA	12:G:391:ASN:ND2	2.29	0.48
13:G1:315:ILE:HD12	13:G1:315:ILE:H	1.78	0.48
13:G1:320:VAL:HG21	13:G1:323:TRP:CZ2	2.49	0.48
14:G4:285:PRO:HD2	14:G4:347:TRP:NE1	2.24	0.48
14:G4:575:LYS:HA	14:G4:734:ARG:HD2	1.94	0.48
14:G4:724:MET:HB3	14:G4:725:PRO:HD3	1.95	0.48
14:G5:580:ASN:OD1	14:G5:581:THR:N	2.47	0.48
4:GA:315:CYS:HB2	4:GA:377:MET:CE	2.44	0.48
4:GA:412:GLY:O	4:GA:413:MET:HE2	2.13	0.48
4:GC:47:ASP:HB3	4:GC:49:PHE:CE2	2.49	0.48
3:GD:271:ALA:HB3	3:GD:365:ALA:H	1.79	0.48
4:GG:319:TYR:HB2	4:GG:355:ILE:HD13	1.96	0.48
3:GH:16:ILE:HG13	3:GH:226:ASN:ND2	2.29	0.48
3:GH:290:THR:HG21	3:GH:329:GLN:HB3	1.95	0.48
4:GI:132:LEU:O	4:GI:132:LEU:HD12	2.14	0.48
4:GI:187:SER:O	4:GI:190:THR:OG1	2.24	0.48
4:GI:351:PHE:CD1	3:GJ:175:VAL:HG22	2.46	0.48
3:GJ:101:TRP:CE3	3:GJ:187:LEU:HD13	2.49	0.48
15:H6:285:TYR:HB3	15:H6:300:PHE:CZ	2.49	0.48
4:HA:226:ASN:HA	4:HA:229:ARG:HH11	1.78	0.48
4:HC:181:VAL:HG23	4:HC:404:PHE:HE2	1.78	0.48
4:HG:174:ALA:HB3	4:HG:177:VAL:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HG:318:LEU:O	4:HG:318:LEU:HD12	2.13	0.48
4:HG:345:ASP:OD1	4:HG:345:ASP:N	2.47	0.48
4:HI:188:ILE:HG22	4:HI:421:ALA:HB1	1.95	0.48
3:HJ:48:ASN:N	3:HJ:48:ASN:OD1	2.47	0.48
3:HJ:51:TYR:CD1	3:HJ:61:PRO:HA	2.48	0.48
3:HL:135:LEU:O	3:HL:167:PHE:N	2.47	0.48
16:I:88:TRP:HZ2	3:JB:359:ARG:HH22	1.62	0.48
16:I:124:LEU:HD13	20:L:34:GLU:HG2	1.96	0.48
17:I2:43:ASN:O	17:I2:47:LYS:N	2.27	0.48
3:IB:344:TRP:HZ3	3:IB:425:TYR:HB3	1.79	0.48
3:ID:109:GLY:O	3:ID:113:VAL:HG13	2.13	0.48
3:ID:197:ASP:OD1	3:ID:198:GLU:N	2.47	0.48
3:ID:198:GLU:HA	3:ID:266:PHE:HE2	1.77	0.48
3:IF:132:GLY:HA3	3:IF:163:ILE:HG22	1.95	0.48
4:IG:185:TYR:HA	4:IG:395:PHE:HE1	1.79	0.48
3:IH:47:ILE:HG13	3:IH:51:TYR:HB2	1.95	0.48
4:IK:113:GLU:OE1	4:IK:113:GLU:N	2.47	0.48
3:IL:269:GLY:O	3:IL:367:PHE:N	2.35	0.48
19:J3:149:TRP:O	19:J3:152:LEU:N	2.47	0.48
4:JC:143:GLY:O	4:JC:147:SER:OG	2.26	0.48
3:JD:214:THR:HG23	3:JD:215:LEU:HD12	1.96	0.48
3:JF:324:LYS:HG3	4:JG:221:ARG:NH1	2.29	0.48
4:JG:234:ILE:O	4:JG:237:SER:OG	2.30	0.48
4:JG:327:ASP:OD1	4:JG:328:VAL:N	2.47	0.48
4:JK:214:ARG:NH1	4:JK:215:ARG:HG3	2.28	0.48
21:K2:174:ILE:HD12	21:K2:467:GLN:HB2	1.96	0.48
4:KA:46:ASP:HA	4:KA:50:ASN:HB3	1.95	0.48
4:KA:405:VAL:O	4:KA:409:VAL:HG22	2.14	0.48
3:KB:350:LYS:HE3	4:KC:180:ALA:HA	1.94	0.48
3:KD:337:ASN:HB2	3:KD:340:TYR:HD2	1.78	0.48
3:KF:11:GLN:HG3	39:KF:501:GTP:PA	2.54	0.48
4:KI:90:GLU:HG2	4:KI:121:ARG:NH2	2.29	0.48
4:KI:154:MET:HA	4:KI:157:LEU:HG	1.96	0.48
3:KL:3:GLU:OE2	3:KL:129:CYS:N	2.47	0.48
22:L2:45:ALA:CB	3:MD:339:SER:H	2.27	0.48
22:L2:188:LEU:HD13	22:L2:252:ILE:HD11	1.95	0.48
22:L4:64:LYS:H	22:L4:68:LYS:NZ	2.11	0.48
4:LA:70:LEU:HB3	4:LA:97:GLU:O	2.14	0.48
4:LA:318:LEU:O	4:LA:375:VAL:HA	2.13	0.48
4:LA:421:ALA:O	4:LA:425:LEU:N	2.32	0.48
3:LD:229:VAL:O	3:LD:233:MET:HE3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LD:309:ARG:O	3:LD:371:SER:OG	2.25	0.48
3:LD:317:PHE:HB3	3:LD:321:MET:HE3	1.96	0.48
3:LD:389:PHE:HZ	3:LD:405:GLU:HB2	1.79	0.48
3:LD:407:GLU:HA	3:LD:410:GLU:HG2	1.95	0.48
4:LK:264:ARG:NH1	28:O3:84:ARG:HB2	2.28	0.48
23:M:64:LYS:NZ	23:M:108:PHE:O	2.45	0.48
24:M3:95:ARG:NH1	24:M3:98:HIS:O	2.37	0.48
3:MB:67:ASP:OD2	3:MB:72:THR:OG1	2.32	0.48
3:MB:250:LEU:HD13	3:MB:253:LEU:HD12	1.94	0.48
4:MK:418:PHE:C	4:MK:422:ARG:HH21	2.22	0.48
3:ML:87:PRO:HA	3:ML:90:PHE:CD2	2.49	0.48
3:ML:189:VAL:HA	3:ML:192:LEU:HB2	1.95	0.48
26:N3:153:THR:HG21	3:VH:44:LEU:HD21	1.96	0.48
4:NA:72:PRO:HA	4:NA:75:VAL:HG12	1.95	0.48
4:NC:256:GLN:O	4:NC:260:VAL:HG12	2.14	0.48
4:NG:302:MET:SD	4:NG:302:MET:N	2.81	0.48
3:NH:3:GLU:OE2	3:NH:127:CYS:HB2	2.14	0.48
4:NI:244:PHE:HD2	4:NI:358:GLN:HB2	1.79	0.48
4:NK:225:THR:O	4:NK:229:ARG:HG2	2.14	0.48
4:OA:6:SER:HB3	4:OA:65:ALA:HB2	1.96	0.48
4:OC:76:ASP:OD1	4:OC:79:ARG:NH1	2.47	0.48
3:OD:49:VAL:HG13	3:OD:50:TYR:CD2	2.49	0.48
3:OF:173:PRO:O	3:OF:380:ARG:NH2	2.46	0.48
3:OF:187:LEU:HD21	3:OF:408:PHE:HE1	1.79	0.48
4:OG:32:PRO:O	4:OG:85:GLN:NE2	2.47	0.48
3:OH:12:CYS:HA	39:OH:501:GTP:N2	2.29	0.48
4:OI:191:THR:O	4:OI:195:LEU:HG	2.14	0.48
3:OJ:113:VAL:HB	3:OJ:154:LYS:HE3	1.96	0.48
3:OL:201:CYS:HB2	3:OL:267:MET:HE1	1.96	0.48
3:OL:385:PHE:HZ	3:OL:408:PHE:HB3	1.79	0.48
29:P2:19:VAL:HG11	29:P2:48:LEU:HD21	1.95	0.48
29:P2:121:PRO:HG3	29:P2:167:SER:O	2.13	0.48
3:PD:55:THR:HG23	3:QD:283:ALA:HA	1.96	0.48
4:PE:260:VAL:HG23	4:PE:265:ILE:O	2.13	0.48
4:PG:239:THR:OG1	4:PG:243:ARG:NH1	2.42	0.48
4:PG:388:TRP:HB2	4:PG:429:GLU:OE2	2.14	0.48
3:PH:39:ASP:OD1	3:PH:43:GLN:NE2	2.47	0.48
3:PH:166:THR:OG1	3:PH:198:GLU:O	2.28	0.48
4:PI:345:ASP:N	4:PI:345:ASP:OD1	2.45	0.48
3:PJ:47:ILE:HG13	3:PJ:51:TYR:HB2	1.95	0.48
3:PJ:114:ASP:N	3:PJ:114:ASP:OD1	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PJ:173:PRO:O	3:PJ:380:ARG:NH2	2.47	0.48
4:PM:116:ASP:N	4:PM:116:ASP:OD1	2.45	0.48
4:QC:333:ALA:HA	4:QC:336:LYS:HD2	1.96	0.48
3:QD:309:ARG:O	3:QD:371:SER:OG	2.27	0.48
3:QD:317:PHE:HB3	3:QD:321:MET:HE3	1.95	0.48
4:QE:1:MET:SD	4:QE:2:ARG:N	2.87	0.48
3:QF:73:MET:HA	3:QF:76:VAL:HG12	1.94	0.48
3:QF:139:LEU:HD21	3:QF:170:VAL:HG22	1.94	0.48
3:QF:206:ALA:O	3:QF:210:ILE:HG12	2.13	0.48
3:QF:209:ASP:O	3:QF:213:ARG:N	2.47	0.48
4:QG:271:THR:HB	4:QG:377:MET:HB3	1.94	0.48
3:QH:149:THR:HG21	3:QH:188:SER:HA	1.94	0.48
4:QI:208:ALA:HA	4:QI:211:ASP:HB2	1.96	0.48
3:QJ:357:PRO:O	3:QJ:359:ARG:NH1	2.39	0.48
4:QK:208:ALA:H	4:QK:304:LYS:HZ1	1.61	0.48
4:QK:292:THR:CG2	4:QK:335:ILE:HD11	2.44	0.48
4:QM:21:TRP:CD1	4:QM:53:PHE:HE1	2.31	0.48
4:QM:186:ASN:OD1	4:QM:187:SER:N	2.47	0.48
3:RB:331:LEU:HD21	4:RC:177:VAL:HG22	1.95	0.48
4:RC:93:ILE:HG13	4:RC:118:VAL:HG12	1.95	0.48
4:RC:438:ASP:HA	3:RD:391:ARG:HH12	1.79	0.48
3:RD:118:ASP:OD1	3:RD:121:ARG:NH2	2.46	0.48
3:RF:52:ASN:OD1	3:RF:62:ARG:NH1	2.47	0.48
3:RF:214:THR:HG23	3:RF:215:LEU:HD12	1.95	0.48
3:RF:318:ARG:HA	3:RF:354:CYS:HB3	1.95	0.48
4:RG:345:ASP:OD1	4:RG:345:ASP:N	2.47	0.48
4:RI:152:LEU:HD12	4:RI:153:LEU:N	2.29	0.48
4:RI:187:SER:O	4:RI:190:THR:OG1	2.24	0.48
3:RJ:11:GLN:HE21	39:RJ:501:GTP:H3'	1.79	0.48
3:RJ:249:ASP:O	3:RJ:252:LYS:HB3	2.12	0.48
3:RL:347:ASN:HB3	4:RM:178:SER:HB3	1.94	0.48
4:RM:184:PRO:HG2	4:RM:398:MET:HE1	1.96	0.48
4:SC:3:GLU:N	4:SC:133:GLN:OE1	2.46	0.48
4:SC:102:ASN:ND2	4:SC:411:GLU:OE2	2.46	0.48
4:SC:188:ILE:HD13	4:SC:395:PHE:CD1	2.49	0.48
4:SE:371:VAL:HG11	4:SE:374:ALA:HB2	1.96	0.48
3:SH:47:ILE:HG12	3:SH:59:TYR:CD2	2.49	0.48
4:SI:88:HIS:HB3	4:SI:91:GLN:HG2	1.96	0.48
4:SI:331:ALA:O	4:SI:334:THR:OG1	2.26	0.48
3:SJ:2:ARG:HA	3:SJ:129:CYS:O	2.13	0.48
3:TB:2:ARG:HB2	3:TB:131:GLN:NE2	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TD:388:MET:HE3	3:TD:389:PHE:HE2	1.79	0.48
4:TE:154:MET:HE3	4:TE:194:THR:HG22	1.95	0.48
4:TG:76:ASP:OD1	4:TG:79:ARG:NH1	2.47	0.48
4:TG:143:GLY:O	4:TG:147:SER:OG	2.27	0.48
3:TH:314:ALA:HB3	3:TH:368:ILE:HG23	1.96	0.48
4:TI:166:LYS:N	4:TI:199:ASP:OD2	2.47	0.48
4:TI:430:LYS:HZ1	4:TI:434:GLU:HB2	1.79	0.48
3:TL:7:LEU:HB2	3:TL:135:LEU:HG	1.96	0.48
33:U:517:ILE:HA	33:U:520:GLN:HG2	1.95	0.48
4:UC:42:ILE:HG12	4:UC:55:GLU:OE2	2.13	0.48
3:UD:380:ARG:O	3:UD:384:GLN:HG2	2.13	0.48
3:UF:423:GLN:O	3:UF:427:ASP:N	2.47	0.48
3:UH:214:THR:HG23	3:UH:215:LEU:HD12	1.96	0.48
4:UI:338:LYS:HZ2	4:UI:340:THR:H	1.62	0.48
4:UK:319:TYR:HE2	4:UK:328:VAL:HG13	1.79	0.48
3:UL:119:VAL:O	3:UL:122:LYS:HG3	2.13	0.48
3:UL:256:ASN:HB3	3:UL:350:LYS:HG3	1.96	0.48
4:VC:154:MET:HE3	4:VC:194:THR:HG22	1.96	0.48
4:VG:47:ASP:HB3	4:VG:49:PHE:CE2	2.49	0.48
4:VG:182:VAL:O	4:VG:185:TYR:HB2	2.14	0.48
4:VG:252:LEU:HA	4:VG:255:PHE:CD2	2.49	0.48
4:VK:116:ASP:N	4:VK:116:ASP:OD1	2.44	0.48
33:W:265:ILE:O	33:W:269:GLU:HG2	2.13	0.48
33:W:278:HIS:HA	33:W:281:GLN:HG2	1.94	0.48
4:WA:254:GLU:OE1	4:WA:254:GLU:N	2.39	0.48
3:WB:3:GLU:OE2	3:WB:127:CYS:HB2	2.14	0.48
3:WB:148:GLY:O	3:WB:152:ILE:HG12	2.14	0.48
4:WK:5:ILE:HD11	4:WK:129:CYS:SG	2.54	0.48
3:WL:285:THR:O	3:WL:288:GLU:HG3	2.13	0.48
3:WL:304:ASP:O	3:WL:307:HIS:ND1	2.47	0.48
33:X:426:GLU:O	33:X:430:PHE:N	2.41	0.48
34:XE:20:LYS:HG3	34:XE:23:GLN:OE1	2.13	0.48
34:XE:62:PRO:HG3	34:XE:67:LYS:O	2.13	0.48
34:XF:20:LYS:O	34:XF:23:GLN:NE2	2.40	0.48
35:XL:69:LEU:HA	35:XL:79:ALA:N	2.26	0.48
35:XL:88:ASP:OD1	35:XL:90:HIS:N	2.39	0.48
35:XL:88:ASP:OD1	35:XL:91:HIS:N	2.46	0.48
37:YF:154:HIS:CD2	37:YF:157:LYS:HE2	2.49	0.48
37:YG:6:GLU:HA	37:YG:9:ARG:HE	1.79	0.48
37:YL:32:CYS:HB3	37:YL:52:TYR:CD1	2.48	0.48
37:YT:82:HIS:CE1	37:YT:86:LEU:HD21	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A3:169:TYR:CE2	13:G2:196:SER:HA	2.49	0.48
2:A3:328:LEU:HD23	2:A3:328:LEU:H	1.78	0.48
4:AC:363:VAL:HG12	4:AC:368:LEU:HD22	1.95	0.48
4:AE:2:ARG:HA	4:AE:133:GLN:NE2	2.29	0.48
4:AE:430:LYS:HD2	34:XC:102:ARG:NH1	2.28	0.48
3:AF:150:LEU:C	3:AF:154:LYS:HZ3	2.21	0.48
4:AG:75:VAL:HA	4:AG:78:VAL:HG12	1.95	0.48
3:AH:13:GLY:HA2	3:AH:16:ILE:HB	1.96	0.48
3:AH:268:PRO:HD2	3:AH:301:ALA:HB2	1.95	0.48
3:AJ:372:THR:HB	3:AJ:375:GLN:HE22	1.78	0.48
4:AK:113:GLU:OE1	4:AK:113:GLU:N	2.44	0.48
5:B8:217:GLN:HB3	5:B8:221:PHE:HE2	1.78	0.48
3:BB:48:ASN:HD21	15:H1:23:PHE:HB2	1.78	0.48
3:BB:114:ASP:OD1	3:BB:115:SER:N	2.46	0.48
4:BC:362:VAL:HA	4:BC:368:LEU:HD21	1.96	0.48
4:BE:319:TYR:HB2	4:BE:355:ILE:HD13	1.95	0.48
3:BF:324:LYS:NZ	4:BG:222:PRO:O	2.25	0.48
3:BJ:8:GLN:HG3	3:BJ:13:GLY:O	2.13	0.48
4:BK:406:HIS:HA	4:BK:409:VAL:HG22	1.96	0.48
4:BM:140:SER:HA	4:BM:170:ALA:HB1	1.96	0.48
4:BM:345:ASP:OD1	4:BM:345:ASP:N	2.47	0.48
7:C3:438:LEU:O	7:C3:442:GLU:HG3	2.14	0.48
7:C9:400:LEU:HB2	7:C9:420:LEU:HD13	1.95	0.48
3:CB:318:ARG:HG3	3:CB:354:CYS:HB3	1.96	0.48
4:CI:256:GLN:O	4:CI:260:VAL:HG12	2.14	0.48
4:CI:285:GLN:NE2	4:CI:286:LEU:O	2.47	0.48
3:CJ:36:TYR:HE2	3:CJ:44:LEU:HD21	1.78	0.48
4:CK:167:LEU:HB3	4:CK:169:PHE:CZ	2.49	0.48
7:Ca:369:LEU:HG	7:Ca:452:LYS:NZ	2.28	0.48
7:Cb:318:SER:O	7:Cb:322:ARG:HG2	2.13	0.48
7:Cd:134:GLN:NE2	7:Cd:135:ILE:HG13	2.29	0.48
8:D2:304:PHE:HE2	8:D2:431:MET:HE3	1.78	0.48
8:D4:95:THR:O	8:D5:376:ARG:NH2	2.47	0.48
8:D4:410:MET:SD	8:D4:411:SER:N	2.87	0.48
3:DB:148:GLY:O	3:DB:152:ILE:HG12	2.14	0.48
3:DB:357:PRO:O	3:DB:359:ARG:NH1	2.37	0.48
4:DC:154:MET:HE3	4:DC:194:THR:HG22	1.96	0.48
4:DC:345:ASP:OD1	4:DC:345:ASP:N	2.47	0.48
4:DE:88:HIS:HB3	4:DE:91:GLN:HB2	1.96	0.48
4:DE:119:LEU:HB3	4:DE:123:ARG:NH2	2.28	0.48
4:DE:396:ASP:OD1	4:DE:397:LEU:N	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DJ:246:LEU:HB3	3:DJ:353:VAL:O	2.14	0.48
4:DK:176:GLN:NE2	4:DK:177:VAL:HG23	2.28	0.48
4:DK:271:THR:HB	4:DK:377:MET:HE2	1.95	0.48
4:EA:74:VAL:O	4:EA:77:GLU:HG2	2.14	0.48
3:ED:139:LEU:HD21	3:ED:170:VAL:HG22	1.95	0.48
4:EE:187:SER:O	4:EE:191:THR:HG23	2.13	0.48
3:EF:419:VAL:O	3:EF:423:GLN:HG3	2.14	0.48
4:EG:319:TYR:HD2	4:EG:323:VAL:HG11	1.78	0.48
3:EH:60:VAL:HG23	3:EH:86:ARG:HH11	1.78	0.48
3:EJ:132:GLY:HA3	3:EJ:163:ILE:H	1.79	0.48
4:EK:81:GLY:O	4:EK:84:ARG:NH1	2.47	0.48
3:EL:78:SER:HB3	13:G3:465:LYS:NZ	2.21	0.48
11:F1:364:ILE:HD13	11:F2:110:ARG:HH11	1.79	0.48
11:F5:160:LEU:HD13	11:F5:250:LEU:HD22	1.96	0.48
3:FD:217:LEU:HD11	3:FD:220:PRO:HB3	1.96	0.48
3:FD:375:GLN:HA	3:FD:378:PHE:CZ	2.49	0.48
4:FE:264:ARG:HG2	4:FE:265:ILE:N	2.26	0.48
3:FF:250:LEU:HD13	3:FF:253:LEU:HD12	1.96	0.48
3:FF:324:LYS:HE2	4:FG:222:PRO:CD	2.44	0.48
3:FF:412:GLU:OE1	3:FF:416:ASN:ND2	2.46	0.48
4:FG:192:HIS:HA	4:FG:195:LEU:HD23	1.96	0.48
3:FH:2:ARG:NH1	4:FI:96:LYS:O	2.46	0.48
4:FI:390:ARG:HA	4:FI:393:HIS:CD2	2.49	0.48
3:FJ:385:PHE:CE1	3:FJ:412:GLU:HB3	2.49	0.48
4:FK:414:GLU:HG2	4:FK:417:GLU:OE1	2.14	0.48
11:Fb:350:GLU:HA	11:Fb:353:VAL:HG12	1.95	0.48
11:Ff:247:GLN:NE2	11:Ff:251:GLU:OE2	2.46	0.48
11:Fi:232:LEU:HD11	11:Fi:324:LEU:HG	1.96	0.48
13:G1:6:VAL:O	13:G1:6:VAL:HG12	2.13	0.48
13:G2:361:MET:HG2	13:G2:362:PRO:HD2	1.95	0.48
13:G3:223:TYR:O	13:G3:224:VAL:HB	2.13	0.48
14:G5:740:ILE:HD13	14:G5:744:GLY:HA3	1.95	0.48
14:G6:575:LYS:HA	14:G6:734:ARG:NH1	2.28	0.48
14:G6:596:ASP:O	14:G6:600:ILE:HG12	2.14	0.48
3:GB:67:ASP:OD2	3:GB:72:THR:OG1	2.31	0.48
4:GC:116:ASP:N	4:GC:116:ASP:OD1	2.45	0.48
4:GC:319:TYR:HB2	4:GC:355:ILE:HD13	1.96	0.48
3:GD:407:GLU:HA	3:GD:410:GLU:OE2	2.14	0.48
4:GE:34:GLY:HA2	4:GE:86:LEU:HD21	1.96	0.48
4:GG:88:HIS:HA	4:HG:283:HIS:CE1	2.49	0.48
4:GI:122:ILE:O	4:GI:126:ALA:N	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H5:281:LEU:HD23	15:H5:282:ILE:N	2.29	0.48
3:HB:130:LEU:HB2	3:HB:162:ARG:HH11	1.79	0.48
3:HD:204:ASN:OD1	3:HD:205:GLU:N	2.47	0.48
3:HF:306:ARG:HH22	3:HF:340:TYR:HE1	1.62	0.48
4:HG:311:LYS:N	4:HG:382:THR:OG1	2.39	0.48
4:HI:122:ILE:O	4:HI:126:ALA:N	2.42	0.48
3:HL:216:LYS:NZ	25:N:96:GLY:O	2.47	0.48
17:I1:54:ASN:O	17:I1:58:GLU:HG2	2.14	0.48
4:IA:35:GLN:HG2	4:IA:59:GLY:O	2.14	0.48
4:IA:113:GLU:N	4:IA:113:GLU:OE1	2.44	0.48
4:IA:230:LEU:O	4:IA:234:ILE:HG12	2.14	0.48
4:IA:390:ARG:HA	4:IA:393:HIS:CD2	2.49	0.48
3:IB:309:ARG:HE	3:IB:426:GLN:HE21	1.61	0.48
3:ID:114:ASP:OD1	3:ID:115:SER:N	2.46	0.48
3:ID:234:SER:O	3:ID:238:THR:HG23	2.14	0.48
4:IE:75:VAL:HG23	4:IE:92:LEU:HD12	1.96	0.48
4:IE:260:VAL:HG23	4:IE:265:ILE:O	2.13	0.48
4:II:68:VAL:HG12	4:II:93:ILE:HB	1.96	0.48
4:II:107:HIS:CD2	4:II:152:LEU:HB2	2.49	0.48
4:IK:295:CYS:HB2	4:IK:377:MET:HG2	1.96	0.48
3:IL:347:ASN:OD1	4:IM:394:LYS:NZ	2.46	0.48
4:IM:12:ALA:HB1	39:IM:501:GTP:C2	2.49	0.48
4:IM:203:MET:HE1	4:IM:267:PHE:HB3	1.96	0.48
4:IM:390:ARG:HA	4:IM:393:HIS:CD2	2.49	0.48
18:J:68:SER:OG	4:JG:359:PRO:HG3	2.13	0.48
4:JA:30:ILE:HD12	4:JA:61:HIS:CD2	2.49	0.48
3:JB:327:ASP:O	3:JB:330:MET:HB3	2.14	0.48
3:JB:350:LYS:HE3	4:JC:180:ALA:HA	1.95	0.48
4:JC:423:GLU:HA	4:JC:426:ALA:HB3	1.96	0.48
3:JD:387:ALA:HA	3:JD:390:ARG:HE	1.79	0.48
4:JG:51:THR:HG23	4:JG:52:PHE:HD2	1.79	0.48
4:JG:154:MET:HE3	4:JG:194:THR:HG22	1.95	0.48
3:JH:73:MET:HA	3:JH:76:VAL:HB	1.95	0.48
3:JJ:304:ASP:O	3:JJ:307:HIS:ND1	2.38	0.48
3:JJ:379:LYS:O	3:JJ:382:SER:OG	2.22	0.48
3:JL:11:GLN:HG3	39:JL:501:GTP:PA	2.54	0.48
21:K2:168:VAL:HG12	21:K2:210:LYS:HZ1	1.78	0.48
21:K4:202:GLU:HA	21:K4:205:GLU:OE2	2.14	0.48
21:K4:493:GLN:HA	3:LL:306:ARG:NH1	2.29	0.48
3:KB:323:MET:HB3	3:KB:327:ASP:OD2	2.14	0.48
4:KC:332:ILE:O	4:KC:336:LYS:HG3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:KE:104:ALA:O	4:KE:108:TYR:N	2.43	0.48
3:KF:139:LEU:N	3:KF:168:SER:OG	2.47	0.48
3:KF:152:ILE:O	3:KF:156:ARG:HG2	2.14	0.48
3:KH:106:TYR:HB2	3:KH:401:GLU:OE2	2.14	0.48
3:KJ:47:ILE:HG12	3:KJ:59:TYR:CD2	2.49	0.48
4:KK:160:ASP:OD1	4:KK:161:TYR:N	2.47	0.48
22:L1:85:LYS:HD3	4:LA:264:ARG:N	2.20	0.48
22:L3:76:LYS:HG2	4:LI:414:GLU:OE2	2.14	0.48
3:LJ:337:ASN:HB2	3:LJ:340:TYR:HB2	1.94	0.48
3:LL:41:ASP:N	3:LL:41:ASP:OD1	2.46	0.48
3:MB:290:THR:HG21	3:MB:329:GLN:HB3	1.96	0.48
3:MF:415:MET:O	3:MF:419:VAL:HG23	2.14	0.48
4:MG:186:ASN:OD1	4:MG:187:SER:N	2.47	0.48
4:MG:301:GLN:OE1	4:MG:301:GLN:N	2.47	0.48
3:MH:173:PRO:HB3	3:MH:380:ARG:CZ	2.44	0.48
4:MK:70:LEU:HA	4:MK:95:GLY:HA3	1.96	0.48
3:ML:217:LEU:O	3:ML:219:THR:N	2.47	0.48
4:NA:254:GLU:OE1	4:NA:254:GLU:N	2.45	0.48
3:ND:350:LYS:HE3	4:NE:180:ALA:HA	1.95	0.48
4:NE:311:LYS:N	4:NE:382:THR:OG1	2.46	0.48
3:NF:406:MET:O	3:NF:409:THR:OG1	2.26	0.48
4:NG:259:LEU:HD21	4:NG:316:CYS:HB2	1.96	0.48
3:NH:2:ARG:HA	3:NH:129:CYS:O	2.14	0.48
3:NH:99:ASN:OD1	3:NH:142:GLY:HA3	2.13	0.48
4:NI:47:ASP:HB3	4:NI:49:PHE:CE2	2.49	0.48
4:NI:245:ASP:O	4:NI:356:ASN:ND2	2.47	0.48
3:NJ:222:TYR:HA	3:NJ:225:LEU:HD13	1.95	0.48
3:NL:151:LEU:O	3:NL:155:ILE:HG23	2.14	0.48
3:NL:156:ARG:NE	3:NL:164:MET:HE3	2.29	0.48
3:OB:375:GLN:HA	3:OB:378:PHE:CE1	2.49	0.48
4:OC:144:GLY:N	39:OC:501:GTP:O2B	2.47	0.48
3:OD:347:ASN:HB3	4:OE:178:SER:HB3	1.95	0.48
3:OF:346:PRO:HD2	4:OG:398:MET:CE	2.44	0.48
3:OF:374:ILE:HA	3:OF:377:LEU:HD13	1.95	0.48
4:OG:161:TYR:O	4:OG:166:LYS:NZ	2.41	0.48
3:OH:11:GLN:HG3	39:OH:501:GTP:PA	2.54	0.48
3:OH:269:GLY:O	3:OH:367:PHE:N	2.40	0.48
4:OI:47:ASP:HB3	4:OI:49:PHE:CE2	2.48	0.48
4:OI:132:LEU:HD21	4:OI:135:PHE:HE1	1.78	0.48
3:OL:12:CYS:SG	39:OL:501:GTP:H5'	2.54	0.48
3:OL:357:PRO:O	3:OL:359:ARG:NH1	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:PA:70:LEU:HB2	4:PA:145:THR:HG21	1.96	0.48
4:PA:236:SER:O	4:PA:243:ARG:NH2	2.41	0.48
3:PB:285:THR:O	3:PB:288:GLU:HG3	2.13	0.48
4:PC:79:ARG:O	4:PC:84:ARG:HG3	2.14	0.48
3:PD:12:CYS:HB3	39:PD:501:GTP:C5'	2.43	0.48
3:PD:183:TYR:CD1	3:PD:388:MET:HE3	2.49	0.48
4:PE:70:LEU:HB3	4:PE:97:GLU:O	2.14	0.48
3:PF:6:HIS:HB3	3:PF:21:TRP:HZ2	1.79	0.48
3:PF:258:VAL:O	4:PG:407:TRP:NE1	2.45	0.48
4:PG:88:HIS:CE1	4:PG:121:ARG:HH22	2.31	0.48
4:PG:216:ASN:ND2	4:PG:275:VAL:O	2.46	0.48
3:PH:12:CYS:HB3	39:PH:501:GTP:O4'	2.14	0.48
3:PH:375:GLN:C	3:PH:379:LYS:HZ3	2.21	0.48
4:PI:35:GLN:HG2	4:PI:59:GLY:O	2.14	0.48
4:PI:258:ASN:CB	4:PI:352:LYS:HE2	2.43	0.48
4:PI:329:ASN:OD1	4:PI:330:ALA:N	2.47	0.48
3:PJ:309:ARG:HH21	3:PJ:426:GLN:HG2	1.79	0.48
4:PM:70:LEU:HB3	4:PM:97:GLU:O	2.14	0.48
27:Q:161:GLU:HG3	32:S:387:HIS:CD2	2.49	0.48
30:Q2:1503:SER:C	30:Q2:1504:LYS:HD2	2.39	0.48
3:QB:149:THR:HG21	3:QB:188:SER:HA	1.95	0.48
4:QC:46:ASP:HA	4:QC:50:ASN:HB3	1.95	0.48
4:QC:423:GLU:HA	4:QC:426:ALA:HB3	1.96	0.48
4:QE:188:ILE:HG22	4:QE:421:ALA:HB1	1.96	0.48
4:QE:352:LYS:NZ	3:QF:178:THR:HA	2.29	0.48
4:QE:352:LYS:HZ2	3:QF:178:THR:HA	1.78	0.48
4:QG:286:LEU:HD23	4:QG:286:LEU:H	1.79	0.48
3:QH:135:LEU:HD22	3:QH:151:LEU:HD11	1.96	0.48
4:QI:163:LYS:HA	4:QI:163:LYS:HD3	1.78	0.48
3:QJ:19:LYS:NZ	3:QJ:223:GLY:O	2.46	0.48
3:QJ:347:ASN:HB3	4:QK:178:SER:HB3	1.95	0.48
4:QK:24:TYR:O	4:QK:28:HIS:ND1	2.29	0.48
4:QK:116:ASP:N	4:QK:116:ASP:OD1	2.46	0.48
4:QK:141:PHE:HE2	4:QK:203:MET:HG3	1.78	0.48
4:QM:280:LYS:NZ	4:QM:284:GLU:OE1	2.47	0.48
4:QM:371:VAL:HG11	4:QM:374:ALA:HB2	1.96	0.48
27:R:308:ASP:C	27:R:312:ARG:HE	2.22	0.48
31:R3:251:PHE:O	31:R3:257:ARG:NH2	2.47	0.48
3:RB:68:LEU:HD12	3:RB:97:ALA:HB2	1.96	0.48
3:RD:12:CYS:SG	3:RD:13:GLY:N	2.87	0.48
4:RE:411:GLU:OE2	4:RE:413:MET:HE1	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RF:141:GLY:HA3	39:RF:501:GTP:H5"	1.95	0.48
4:RI:274:PRO:HG3	4:RI:374:ALA:HA	1.96	0.48
4:RI:390:ARG:HA	4:RI:393:HIS:CD2	2.49	0.48
3:RJ:106:TYR:HB2	3:RJ:401:GLU:OE2	2.12	0.48
3:RJ:182:PRO:HB2	3:RJ:388:MET:HE1	1.95	0.48
4:RK:208:ALA:N	4:RK:304:LYS:HZ1	2.10	0.48
3:SB:32:PRO:O	3:SB:83:GLN:NE2	2.44	0.48
4:SE:216:ASN:HB2	4:SE:276:ILE:HD12	1.94	0.48
3:SF:28:HIS:O	3:SF:43:GLN:NE2	2.47	0.48
3:SF:309:ARG:CZ	3:SF:342:VAL:HG12	2.44	0.48
4:SG:269:LEU:N	4:SG:379:SER:O	2.38	0.48
3:SH:149:THR:HG21	3:SH:188:SER:HA	1.96	0.48
4:SI:36:MET:HE3	4:SI:61:HIS:CE1	2.48	0.48
4:SI:163:LYS:HD3	4:SI:163:LYS:HA	1.73	0.48
4:SI:287:SER:N	4:SI:290:GLU:OE2	2.46	0.48
3:SL:70:PRO:HA	3:SL:73:MET:HE3	1.96	0.48
3:SL:324:LYS:HE2	4:SM:222:PRO:CD	2.44	0.48
3:TB:344:TRP:CZ3	4:TC:401:LYS:HD2	2.49	0.48
3:TD:144:GLY:N	39:TD:501:GTP:O2B	2.47	0.48
3:TF:246:LEU:HD22	3:TF:354:CYS:HA	1.95	0.48
4:TG:360:PRO:HG2	4:TG:374:ALA:HB2	1.94	0.48
3:TH:238:THR:HA	3:TH:241:ARG:HG2	1.96	0.48
4:TI:10:GLY:O	4:TI:14:VAL:HG13	2.14	0.48
4:TK:244:PHE:HB2	4:TK:356:ASN:HD21	1.78	0.48
3:TL:420:SER:O	3:TL:424:GLN:N	2.40	0.48
4:TM:287:SER:OG	4:TM:290:GLU:OE1	2.30	0.48
3:TN:272:PRO:HA	3:TN:292:GLN:OE1	2.13	0.48
33:U:145:ARG:HA	33:U:148:ILE:HG22	1.95	0.48
3:UD:12:CYS:SG	39:UD:501:GTP:H5'	2.54	0.48
3:UD:357:PRO:HB3	3:UD:362:LYS:HA	1.96	0.48
4:UE:9:VAL:HG22	4:UE:146:GLY:HA2	1.94	0.48
4:UE:102:ASN:HB3	4:UE:105:ARG:HB2	1.96	0.48
4:UE:324:VAL:HG21	3:UF:219:THR:HG22	1.95	0.48
3:UH:101:TRP:HB2	3:UH:184:ASN:HD22	1.79	0.48
3:UL:68:LEU:HD12	3:UL:97:ALA:HB2	1.96	0.48
4:VA:113:GLU:N	4:VA:113:GLU:OE1	2.44	0.48
3:VD:48:ASN:HA	3:VD:51:TYR:O	2.13	0.48
4:VE:345:ASP:N	4:VE:345:ASP:OD1	2.45	0.48
3:VF:197:ASP:OD1	3:VF:198:GLU:N	2.46	0.48
3:VF:322:SER:OG	3:VF:323:MET:SD	2.71	0.48
4:VG:34:GLY:HA2	4:VG:86:LEU:HD11	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:VG:192:HIS:CE1	4:VG:193:THR:HG23	2.49	0.48
4:VG:395:PHE:HE2	4:VG:422:ARG:HH22	1.62	0.48
3:VH:19:LYS:NZ	3:VH:227:HIS:HB2	2.29	0.48
3:VH:32:PRO:HA	3:VH:81:PHE:CE1	2.49	0.48
4:VK:273:ALA:HB2	4:VK:295:CYS:HB3	1.96	0.48
33:W:198:ILE:HG22	33:W:202:LYS:HZ1	1.77	0.48
4:WA:429:GLU:O	4:WA:432:TYR:N	2.44	0.48
3:WB:379:LYS:O	3:WB:382:SER:OG	2.19	0.48
3:WD:305:PRO:HA	3:WD:373:ALA:HB2	1.95	0.48
4:WE:141:PHE:HB2	4:WE:173:PRO:HD3	1.96	0.48
3:WF:41:ASP:N	3:WF:41:ASP:OD1	2.44	0.48
3:WJ:3:GLU:OE2	3:WJ:129:CYS:N	2.47	0.48
3:WL:172:SER:OG	3:WL:205:GLU:OE2	2.25	0.48
34:XC:89:PHE:HB2	34:XC:156:ILE:HD13	1.96	0.48
34:XD:1:MET:HE2	34:XD:67:LYS:HD3	1.96	0.48
34:XE:109:GLN:HB2	34:XE:122:PRO:HA	1.95	0.48
34:XG:3:LYS:HA	34:XG:7:GLN:NE2	2.29	0.48
34:XG:27:LYS:HZ2	34:XG:58:TYR:C	2.21	0.48
35:XH:145:ASN:O	35:XH:149:ILE:HG12	2.14	0.48
35:XJ:69:LEU:HA	35:XJ:79:ALA:H	1.78	0.48
35:XJ:144:ARG:O	35:XJ:144:ARG:NH1	2.46	0.48
35:XK:130:ILE:HG13	35:XK:131:PRO:CD	2.44	0.48
35:XL:180:ILE:O	35:XL:183:ILE:HG22	2.13	0.48
37:YD:23:PHE:HB3	37:YD:124:HIS:CE1	2.49	0.48
37:YD:76:LEU:O	37:YD:80:CYS:N	2.47	0.48
37:YH:32:CYS:HA	37:YH:56:TYR:CE1	2.49	0.48
37:YI:12:GLU:OE2	37:YI:13:GLN:NE2	2.47	0.48
37:YM:59:ASN:HB2	37:YM:62:HIS:CE1	2.49	0.48
37:YM:114:ARG:NH2	37:YM:133:HIS:O	2.47	0.48
37:YR:33:ARG:NH2	37:YR:134:TYR:OH	2.46	0.48
37:YS:61:THR:O	37:YS:65:ILE:HG22	2.13	0.48
37:YT:46:ILE:HD12	37:YT:46:ILE:H	1.78	0.48
37:YV:32:CYS:HA	37:YV:56:TYR:CE1	2.48	0.48
37:YV:84:GLU:HG3	37:YV:101:LYS:NZ	2.28	0.48
2:A1:91:LEU:HD11	2:A1:235:SER:HB3	1.95	0.47
2:A1:128:VAL:HG23	2:A2:11:PHE:O	2.14	0.47
2:A3:337:LEU:O	2:A3:341:ILE:HG12	2.14	0.47
4:AC:405:VAL:O	4:AC:409:VAL:HG22	2.14	0.47
3:AD:51:TYR:CD1	3:AD:61:PRO:HA	2.49	0.47
3:AD:401:GLU:OE1	3:AD:403:MET:HE3	2.14	0.47
4:AE:405:VAL:O	4:AE:409:VAL:HG22	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AJ:392:LYS:HZ1	34:XE:99:VAL:HB	1.79	0.47
3:AL:52:ASN:CG	3:AL:62:ARG:HD3	2.39	0.47
5:B3:168:ILE:O	5:B3:171:GLN:NE2	2.47	0.47
5:B6:203:VAL:O	5:B6:207:ARG:NH2	2.47	0.47
5:B6:404:PHE:CD2	5:B6:405:VAL:HG12	2.49	0.47
5:B7:379:CYS:O	5:B7:383:THR:HG23	2.14	0.47
5:B8:194:LEU:HB3	5:B9:313:LEU:HD22	1.95	0.47
3:BB:163:ILE:HD13	3:BB:250:LEU:HB2	1.96	0.47
4:BC:54:SER:N	4:BC:62:VAL:O	2.46	0.47
4:BC:67:PHE:O	4:BC:93:ILE:N	2.47	0.47
4:BG:10:GLY:O	4:BG:13:GLY:N	2.45	0.47
4:BG:43:GLY:HA2	14:G5:216:PHE:O	2.14	0.47
4:BI:213:CYS:O	4:BI:218:ASP:N	2.47	0.47
3:BJ:41:ASP:OD1	3:BJ:42:LEU:N	2.47	0.47
3:BL:156:ARG:NE	3:BL:164:MET:HE3	2.29	0.47
7:C4:200:PHE:O	7:C4:204:LYS:NZ	2.47	0.47
7:C4:379:ILE:O	7:C4:383:LYS:HG3	2.14	0.47
7:C6:312:GLN:HB2	7:C6:315:ARG:NH2	2.29	0.47
7:C9:393:LEU:HD21	7:C9:427:VAL:HB	1.96	0.47
3:CB:26:ASP:OD1	3:CB:27:GLU:N	2.46	0.47
3:CD:193:VAL:O	3:CD:262:ARG:NH2	2.47	0.47
4:CE:50:ASN:O	4:CE:64:ARG:NH1	2.46	0.47
3:CF:2:ARG:HA	3:CF:129:CYS:O	2.13	0.47
3:CF:48:ASN:O	3:CF:62:ARG:NH2	2.32	0.47
4:CG:326:LYS:HE3	3:CH:220:PRO:HD2	1.94	0.47
4:CK:216:ASN:OD1	4:CK:217:LEU:N	2.47	0.47
7:Ca:337:TRP:NE1	7:Ca:341:ASN:HD21	2.12	0.47
7:Cc:358:LYS:HG2	7:Cc:462:LYS:HD3	1.95	0.47
7:Cd:347:PHE:CE2	7:Cd:351:ILE:HD11	2.49	0.47
8:D4:98:ASP:CB	8:D5:376:ARG:HH12	2.25	0.47
8:D4:257:TRP:NE1	8:D4:261:ASN:HD21	2.11	0.47
8:D8:313:ASP:HA	11:F3:271:ARG:HH12	1.79	0.47
8:D8:411:SER:O	8:D8:414:LYS:HG2	2.13	0.47
8:D9:415:ASP:OD2	8:Da:63:ARG:NH1	2.47	0.47
4:DA:21:TRP:HA	4:DA:24:TYR:HB2	1.96	0.47
4:DA:411:GLU:OE2	4:DA:413:MET:HE1	2.13	0.47
3:DD:295:ASP:HB2	3:DD:298:ASN:HB2	1.95	0.47
3:DD:318:ARG:C	3:DD:321:MET:HE1	2.39	0.47
4:DE:171:ILE:HD12	4:DE:204:VAL:HG13	1.96	0.47
3:DF:234:SER:O	3:DF:238:THR:HG23	2.14	0.47
4:DG:2:ARG:NH1	4:DG:241:SER:O	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DG:185:TYR:CZ	4:DG:398:MET:HE1	2.49	0.47
4:DG:220:GLU:O	4:DG:221:ARG:NE	2.42	0.47
3:DH:246:LEU:HD22	3:DH:354:CYS:HA	1.95	0.47
3:DH:378:PHE:CD1	3:DH:419:VAL:HG22	2.48	0.47
9:E:796:GLU:OE1	9:E:796:GLU:N	2.39	0.47
3:EB:332:ASN:O	3:EB:336:LYS:N	2.46	0.47
4:EC:203:MET:HE1	4:EC:267:PHE:HB3	1.96	0.47
3:EH:118:ASP:HA	3:EH:121:ARG:HG2	1.95	0.47
3:EH:166:THR:OG1	3:EH:198:GLU:O	2.30	0.47
3:EH:224:ASP:O	13:G2:387:TYR:HE1	1.97	0.47
4:EI:419:SER:HA	4:EI:422:ARG:HE	1.79	0.47
4:EK:326:LYS:HG3	3:EL:220:PRO:HD2	1.96	0.47
11:F8:198:ARG:NH1	11:F8:465:ASP:OD1	2.45	0.47
4:FA:113:GLU:OE1	4:FA:113:GLU:N	2.45	0.47
3:FB:323:MET:SD	3:FB:323:MET:N	2.85	0.47
4:FC:192:HIS:NE2	4:FC:420:GLU:OE2	2.47	0.47
4:FC:260:VAL:O	3:FD:397:TRP:HH2	1.96	0.47
3:FF:120:VAL:O	3:FF:124:ALA:N	2.41	0.47
4:FG:252:LEU:HA	4:FG:255:PHE:HD2	1.79	0.47
4:FI:287:SER:N	4:FI:290:GLU:OE2	2.46	0.47
3:FJ:234:SER:O	3:FJ:238:THR:HG23	2.14	0.47
3:FL:174:LYS:HG3	3:FL:175:VAL:HG12	1.94	0.47
11:Fa:153:LYS:HA	11:Fa:257:LYS:HZ1	1.78	0.47
11:Fa:433:ARG:HA	11:Fa:436:GLU:HG2	1.94	0.47
11:Fc:131:ILE:O	11:Fc:135:GLN:HG2	2.13	0.47
11:Ff:87:PHE:H	11:Fg:208:HIS:CE1	2.32	0.47
11:Fj:368:ILE:HG12	11:Fj:444:LEU:HB3	1.95	0.47
11:Fl:376:MET:SD	11:Fl:377:LEU:HD22	2.54	0.47
12:G:163:GLU:O	12:G:166:THR:OG1	2.26	0.47
13:G1:27:ARG:HD3	13:G1:27:ARG:H	1.79	0.47
14:G5:657:ASP:O	14:G5:660:ARG:HG2	2.14	0.47
14:G6:462:THR:HG22	14:G6:485:ARG:N	2.29	0.47
4:GA:208:ALA:N	4:GA:304:LYS:HZ1	2.11	0.47
4:GA:216:ASN:ND2	4:GA:275:VAL:O	2.47	0.47
4:GC:220:GLU:O	4:GC:221:ARG:NE	2.42	0.47
3:GD:152:ILE:O	3:GD:156:ARG:HG2	2.14	0.47
3:GD:197:ASP:OD1	3:GD:198:GLU:N	2.47	0.47
3:GD:378:PHE:HA	3:GD:381:ILE:HG12	1.95	0.47
3:GF:412:GLU:HA	3:GF:415:MET:HB3	1.96	0.47
4:GG:45:GLY:HA2	4:GG:49:PHE:HE1	1.79	0.47
4:GG:46:ASP:OD1	4:GG:50:ASN:ND2	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:GG:124:LYS:HE2	23:M:157:SER:HB3	1.95	0.47
3:GH:1:MET:HE1	3:GH:49:VAL:HA	1.95	0.47
4:GI:229:ARG:NH1	4:GI:233:GLN:HB2	2.28	0.47
4:GI:260:VAL:HG23	4:GI:265:ILE:O	2.14	0.47
3:GJ:246:LEU:HB3	3:GJ:353:VAL:O	2.14	0.47
3:GJ:305:PRO:HA	3:GJ:373:ALA:HB2	1.97	0.47
4:GK:286:LEU:O	4:GK:373:ARG:NH2	2.30	0.47
3:GL:12:CYS:HA	39:GL:501:GTP:N2	2.29	0.47
4:HC:50:ASN:OD1	4:HC:51:THR:N	2.47	0.47
4:HC:185:TYR:HB3	4:HC:418:PHE:CZ	2.49	0.47
4:HC:224:TYR:HB3	4:HC:228:ASN:HD21	1.76	0.47
4:HC:345:ASP:N	4:HC:345:ASP:OD1	2.45	0.47
3:HD:197:ASP:OD1	3:HD:198:GLU:N	2.46	0.47
3:HD:415:MET:O	3:HD:419:VAL:HG23	2.13	0.47
4:HG:171:ILE:HD12	4:HG:204:VAL:HG23	1.96	0.47
4:HG:387:ALA:O	4:HG:391:LEU:HG	2.14	0.47
4:HI:262:TYR:CE1	3:HJ:393:ALA:HA	2.49	0.47
4:HI:322:ASP:OD2	4:HI:373:ARG:NH2	2.47	0.47
3:HJ:226:ASN:HA	3:HJ:229:VAL:HG22	1.96	0.47
3:HJ:252:LYS:NZ	4:HK:144:GLY:HA3	2.29	0.47
4:HK:390:ARG:HA	4:HK:393:HIS:CD2	2.49	0.47
4:IA:154:MET:HE1	4:IA:197:HIS:HB2	1.95	0.47
4:IA:268:PRO:HB2	4:IA:378:LEU:HD11	1.96	0.47
4:IC:104:ALA:O	4:IC:108:TYR:N	2.45	0.47
4:IC:208:ALA:H	4:IC:304:LYS:NZ	2.11	0.47
4:IC:254:GLU:OE1	4:IC:254:GLU:N	2.42	0.47
4:IC:438:ASP:HA	3:ID:391:ARG:HH12	1.79	0.47
4:IG:21:TRP:CD1	4:IG:67:PHE:HZ	2.31	0.47
4:IG:47:ASP:HB3	4:IG:49:PHE:CE2	2.49	0.47
3:IH:211:CYS:O	3:IH:216:LYS:N	2.38	0.47
3:IH:302:ALA:HB1	3:IH:377:LEU:HD21	1.95	0.47
4:II:3:GLU:N	4:II:133:GLN:OE1	2.47	0.47
4:II:140:SER:HA	4:II:170:ALA:HB1	1.96	0.47
3:IJ:111:GLU:HG2	3:IJ:112:LEU:HD12	1.96	0.47
4:IK:17:GLY:O	4:IK:21:TRP:HD1	1.96	0.47
4:IK:139:HIS:CD2	4:IK:170:ALA:HB2	2.49	0.47
4:IK:385:ALA:HB2	4:IK:432:TYR:HD2	1.79	0.47
3:IL:289:LEU:HD21	3:IL:363:MET:HB3	1.96	0.47
4:IM:3:GLU:CD	4:IM:131:GLY:H	2.22	0.47
3:JB:250:LEU:HD13	3:JB:253:LEU:HD12	1.96	0.47
3:JB:322:SER:OG	3:JB:323:MET:SD	2.72	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:JC:46:ASP:HA	4:JC:50:ASN:HB3	1.94	0.47
3:JD:87:PRO:HA	3:JD:90:PHE:CD2	2.49	0.47
3:JD:311:LEU:HD11	3:JD:372:THR:HG23	1.96	0.47
4:JE:1:MET:SD	4:JE:2:ARG:N	2.86	0.47
4:JE:102:ASN:HB3	4:JE:105:ARG:HB2	1.96	0.47
3:JF:47:ILE:HG13	3:JF:51:TYR:HB2	1.96	0.47
3:JF:152:ILE:O	3:JF:156:ARG:HG2	2.13	0.47
4:JG:405:VAL:O	4:JG:409:VAL:HG22	2.14	0.47
3:JH:2:ARG:HB3	3:JH:131:GLN:CD	2.39	0.47
3:JH:197:ASP:OD1	3:JH:198:GLU:N	2.48	0.47
3:JJ:3:GLU:OE2	3:JJ:127:CYS:HB2	2.13	0.47
3:JJ:317:PHE:HB3	3:JJ:321:MET:HE3	1.95	0.47
4:JK:166:LYS:O	4:JK:199:ASP:HB2	2.14	0.47
21:K2:473:CYS:SG	21:K2:476:GLN:NE2	2.77	0.47
21:K2:490:ALA:O	21:K2:493:GLN:N	2.46	0.47
21:K3:165:LEU:O	21:K3:169:ARG:HG3	2.14	0.47
21:K3:176:GLN:O	21:K3:179:VAL:HG22	2.14	0.47
21:K4:129:HIS:CE1	21:K4:288:THR:HG22	2.49	0.47
4:KA:54:SER:N	4:KA:62:VAL:O	2.47	0.47
3:KJ:19:LYS:NZ	3:KJ:223:GLY:O	2.47	0.47
4:KK:208:ALA:N	4:KK:304:LYS:HZ1	2.11	0.47
3:KL:420:SER:HB2	31:R3:120:TYR:CZ	2.49	0.47
22:L1:141:LEU:C	22:L1:143:PRO:HD3	2.38	0.47
22:L2:129:ARG:CZ	4:LG:90:GLU:HA	2.43	0.47
22:L2:202:LYS:O	22:L2:206:GLU:HG2	2.14	0.47
22:L3:254:ASN:N	33:W:105:SER:OG	2.47	0.47
4:LA:292:THR:HA	4:LA:295:CYS:SG	2.55	0.47
3:LB:374:ILE:HD12	3:LB:374:ILE:H	1.79	0.47
4:LC:145:THR:OG1	39:LC:501:GTP:O1B	2.32	0.47
3:LD:3:GLU:HG2	3:LD:130:LEU:HD23	1.95	0.47
3:LD:234:SER:O	3:LD:238:THR:HG23	2.13	0.47
4:LE:185:TYR:CZ	4:LE:398:MET:HE1	2.48	0.47
4:LE:338:LYS:NZ	4:LE:339:ARG:HB2	2.29	0.47
4:LG:132:LEU:HD12	4:LG:132:LEU:O	2.14	0.47
4:LI:213:CYS:SG	4:LI:219:ILE:HB	2.54	0.47
4:LI:271:THR:HA	4:LI:302:MET:HE1	1.94	0.47
4:LK:36:MET:HA	4:LK:36:MET:HE2	1.95	0.47
4:LK:68:VAL:HG12	4:LK:93:ILE:HB	1.95	0.47
3:LL:6:HIS:CE1	3:LL:8:GLN:HB3	2.49	0.47
24:M1:59:PRO:HA	24:M1:62:GLU:HB3	1.96	0.47
3:MB:279:GLN:NE2	27:P:368:TYR:OH	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MC:234:ILE:O	4:MC:237:SER:OG	2.32	0.47
4:ME:172:TYR:HD1	4:ME:203:MET:HG2	1.77	0.47
4:ME:333:ALA:HA	4:ME:336:LYS:HD2	1.95	0.47
3:MF:252:LYS:O	3:MF:256:ASN:ND2	2.47	0.47
4:MG:434:GLU:HB2	28:O2:46:ARG:HH22	1.79	0.47
4:MI:42:ILE:HG12	4:MI:55:GLU:OE2	2.14	0.47
4:MI:367:ASP:OD1	4:MI:367:ASP:N	2.46	0.47
3:MJ:262:ARG:NH2	3:MJ:425:TYR:OH	2.47	0.47
4:MK:216:ASN:ND2	4:MK:275:VAL:O	2.47	0.47
3:ML:317:PHE:O	3:ML:354:CYS:N	2.33	0.47
4:MM:255:PHE:O	4:MM:259:LEU:HB2	2.14	0.47
4:NA:287:SER:N	4:NA:290:GLU:OE2	2.46	0.47
4:NA:386:GLU:HA	4:NA:389:ALA:HB3	1.96	0.47
3:NF:421:GLU:HG2	3:NF:425:TYR:HE2	1.78	0.47
4:NG:9:VAL:HA	4:NG:68:VAL:HG23	1.96	0.47
4:NG:139:HIS:CD2	4:NG:170:ALA:HB2	2.49	0.47
3:NH:114:ASP:OD1	3:NH:115:SER:N	2.47	0.47
4:NI:165:SER:C	4:NI:166:LYS:HD2	2.39	0.47
3:NL:278:SER:HA	3:NL:281:TYR:HB2	1.96	0.47
3:NL:309:ARG:H	3:NL:372:THR:HG1	1.56	0.47
3:OB:39:ASP:OD1	3:OB:43:GLN:NE2	2.46	0.47
3:OD:174:LYS:HG3	3:OD:175:VAL:HG12	1.95	0.47
3:OF:350:LYS:HE3	4:OG:181:VAL:H	1.79	0.47
4:OG:1:MET:O	4:OG:131:GLY:HA3	2.14	0.47
4:OG:145:THR:OG1	39:OG:501:GTP:O1B	2.31	0.47
3:OH:2:ARG:HB3	3:OH:131:GLN:NE2	2.28	0.47
4:OI:346:TRP:HB3	3:OJ:391:ARG:HE	1.78	0.47
4:OK:168:GLU:OE1	4:OK:198:SER:OG	2.30	0.47
3:OL:218:THR:OG1	3:OL:219:THR:N	2.47	0.47
29:P2:479:ALA:HB1	29:P2:505:PHE:HB3	1.96	0.47
4:PA:224:TYR:HA	4:PA:227:LEU:HB2	1.96	0.47
4:PA:386:GLU:HA	4:PA:389:ALA:HB3	1.95	0.47
4:PC:72:PRO:HA	4:PC:75:VAL:HG12	1.95	0.47
3:PD:284:LEU:HG	3:PD:289:LEU:HD11	1.95	0.47
3:PF:394:PHE:HA	3:PF:397:TRP:HZ3	1.79	0.47
4:PG:271:THR:HB	4:PG:377:MET:HE2	1.95	0.47
3:PH:12:CYS:HA	39:PH:501:GTP:N2	2.28	0.47
3:PJ:334:GLN:O	3:PJ:338:SER:OG	2.25	0.47
3:PJ:415:MET:O	3:PJ:419:VAL:N	2.40	0.47
4:PK:229:ARG:HE	4:PK:368:LEU:HD22	1.79	0.47
3:PL:42:LEU:HD12	3:PL:243:PRO:HD2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PL:285:THR:O	3:PL:288:GLU:HG3	2.14	0.47
4:PM:168:GLU:HB2	4:PM:201:ALA:HA	1.97	0.47
3:QB:46:ARG:HH12	4:QC:73:THR:HG23	1.79	0.47
3:QB:267:MET:HE3	3:QB:370:ASN:HA	1.95	0.47
4:QC:50:ASN:O	4:QC:64:ARG:NH1	2.47	0.47
3:QD:266:PHE:HD1	3:QD:370:ASN:HB2	1.78	0.47
4:QE:176:GLN:NE2	4:QE:207:GLU:OE2	2.47	0.47
4:QG:167:LEU:HD13	4:QG:200:CYS:HB2	1.95	0.47
4:QG:395:PHE:HA	4:QG:398:MET:HE2	1.96	0.47
4:QG:398:MET:O	4:QG:402:ARG:N	2.47	0.47
3:QH:282:ARG:HE	3:QH:288:GLU:CD	2.22	0.47
4:QK:260:VAL:O	3:QL:397:TRP:HH2	1.97	0.47
4:QK:329:ASN:HA	4:QK:332:ILE:HG12	1.96	0.47
39:QL:502:GTP:PB	4:QM:11:GLN:HG3	2.53	0.47
4:QM:105:ARG:O	4:QM:109:THR:OG1	2.30	0.47
4:QM:132:LEU:HD21	4:QM:135:PHE:CE1	2.49	0.47
31:R3:251:PHE:HB2	31:R3:257:ARG:HG2	1.95	0.47
3:RD:130:LEU:HB2	3:RD:162:ARG:HH11	1.78	0.47
4:RE:12:ALA:O	39:RE:501:GTP:N1	2.47	0.47
4:RE:185:TYR:HA	4:RE:395:PHE:HE1	1.78	0.47
3:RF:47:ILE:HG12	3:RF:59:TYR:CD2	2.48	0.47
3:RF:54:ALA:HB3	3:RF:58:LYS:HB3	1.96	0.47
3:RF:292:GLN:O	3:RF:298:ASN:ND2	2.46	0.47
4:RG:273:ALA:N	4:RG:377:MET:HE1	2.29	0.47
3:RH:189:VAL:HA	3:RH:192:LEU:HB2	1.96	0.47
4:RI:419:SER:HA	4:RI:422:ARG:NH1	2.29	0.47
3:RJ:12:CYS:SG	39:RJ:501:GTP:H5'	2.54	0.47
4:RK:22:GLU:O	4:RK:26:LEU:HD23	2.13	0.47
3:SB:261:PRO:HD3	4:SC:406:HIS:CG	2.48	0.47
4:SC:245:ASP:O	4:SC:356:ASN:ND2	2.46	0.47
3:SD:32:PRO:C	3:SD:83:GLN:HE21	2.22	0.47
3:SD:214:THR:HG21	3:SD:273:LEU:HB3	1.96	0.47
4:SE:70:LEU:HA	4:SE:95:GLY:HA3	1.96	0.47
3:SH:350:LYS:HE3	4:SI:180:ALA:HA	1.96	0.47
4:SI:210:TYR:OH	4:SI:221:ARG:NH2	2.44	0.47
3:SJ:289:LEU:O	3:SJ:293:MET:HG2	2.13	0.47
3:TB:289:LEU:O	3:TB:293:MET:HG2	2.13	0.47
3:TB:318:ARG:HA	3:TB:354:CYS:HB3	1.95	0.47
4:TC:166:LYS:N	4:TC:199:ASP:OD2	2.47	0.47
4:TG:36:MET:HG3	4:TG:41:THR:OG1	2.14	0.47
4:TG:256:GLN:O	4:TG:260:VAL:HG12	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TH:12:CYS:SG	39:TH:501:GTP:H5'	2.54	0.47
3:TH:141:GLY:HA3	39:TH:501:GTP:H5"	1.96	0.47
4:TI:143:GLY:HA3	4:TI:147:SER:H	1.78	0.47
3:TJ:187:LEU:HD21	3:TJ:408:PHE:CD1	2.49	0.47
4:TK:67:PHE:HB2	4:TK:92:LEU:HD13	1.95	0.47
4:TK:103:TYR:HB2	4:TK:186:ASN:HB2	1.96	0.47
3:TL:52:ASN:OD1	3:TL:62:ARG:NH1	2.47	0.47
3:TL:130:LEU:HB2	3:TL:162:ARG:HH11	1.78	0.47
3:TL:269:GLY:N	3:TL:367:PHE:O	2.46	0.47
3:UB:77:ARG:HD3	3:UB:90:PHE:HE2	1.78	0.47
3:UB:315:ALA:HA	3:UB:367:PHE:HA	1.96	0.47
3:UD:47:ILE:HG21	3:UD:59:TYR:CE2	2.49	0.47
3:UD:218:THR:OG1	3:UD:219:THR:N	2.47	0.47
3:UF:12:CYS:HB3	39:UF:501:GTP:O4'	2.13	0.47
4:UG:52:PHE:HZ	4:UG:239:THR:HB	1.79	0.47
4:UG:207:GLU:HB2	4:UG:304:LYS:NZ	2.29	0.47
4:UG:216:ASN:OD1	4:UG:217:LEU:N	2.47	0.47
3:UL:117:LEU:HA	3:UL:120:VAL:HG22	1.96	0.47
4:VA:1:MET:HE3	4:VA:50:ASN:ND2	2.29	0.47
4:VA:102:ASN:HB3	4:VA:105:ARG:HB2	1.94	0.47
4:VC:116:ASP:N	4:VC:116:ASP:OD1	2.46	0.47
4:VC:345:ASP:N	4:VC:345:ASP:OD1	2.47	0.47
4:VE:3:GLU:CD	4:VE:132:LEU:H	2.22	0.47
4:VE:36:MET:HE3	4:VE:37:PRO:HD3	1.96	0.47
4:VE:105:ARG:O	4:VE:109:THR:OG1	2.25	0.47
3:VH:11:GLN:HE21	39:VH:501:GTP:H3'	1.78	0.47
3:VH:46:ARG:NH2	4:VI:77:GLU:OE2	2.47	0.47
3:VH:47:ILE:HG21	3:VH:59:TYR:CE2	2.49	0.47
4:VI:3:GLU:OE2	4:VI:130:THR:N	2.33	0.47
4:VI:102:ASN:HD22	4:VI:105:ARG:HG3	1.77	0.47
4:VI:196:GLU:HG2	4:VI:197:HIS:ND1	2.29	0.47
3:VJ:247:ASN:CB	3:VJ:252:LYS:HG2	2.42	0.47
4:VK:423:GLU:O	4:VK:427:ALA:N	2.39	0.47
4:WA:11:GLN:HG3	39:WA:501:GTP:O1B	2.14	0.47
3:WJ:52:ASN:ND2	3:WJ:62:ARG:HD3	2.28	0.47
34:XD:90:GLU:HB2	34:XD:153:ARG:HH12	1.79	0.47
34:XE:101:ARG:NE	34:XE:116:PRO:O	2.43	0.47
35:XH:89:TYR:CE2	35:XH:122:GLY:HA3	2.48	0.47
35:XI:137:ILE:O	35:XI:141:LEU:HG	2.14	0.47
35:XJ:146:ARG:HE	35:XJ:149:ILE:HD11	1.78	0.47
35:XL:130:ILE:HG13	35:XL:131:PRO:CD	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:Y:199:GLU:C	36:Y:203:ARG:HE	2.22	0.47
37:YC:22:GLN:O	37:YC:26:ILE:HG12	2.14	0.47
37:YE:82:HIS:CE1	37:YE:86:LEU:HD11	2.49	0.47
37:YG:154:HIS:HA	37:YG:157:LYS:HG2	1.95	0.47
37:YI:68:MET:O	37:YI:72:ILE:HG13	2.14	0.47
37:YM:41:ARG:NH1	37:YM:48:GLN:OE1	2.47	0.47
37:YM:59:ASN:O	37:YM:61:THR:N	2.47	0.47
37:YR:41:ARG:NH1	37:YR:44:SER:H	2.12	0.47
37:YV:93:THR:HB	37:YV:151:TRP:CD1	2.49	0.47
37:YW:117:TYR:CD1	37:YW:118:PRO:HA	2.49	0.47
36:Z:468:TYR:O	36:Z:472:VAL:HG23	2.14	0.47
1:A:253:ASP:O	1:A:257:GLN:HG3	2.14	0.47
1:A:304:LYS:HA	1:A:307:GLU:HG3	1.96	0.47
4:AC:98:ASP:O	4:AC:105:ARG:NH2	2.29	0.47
3:AD:347:ASN:HB3	4:AE:178:SER:HB3	1.96	0.47
4:AE:166:LYS:N	4:AE:199:ASP:OD2	2.46	0.47
3:AF:40:SER:HB3	3:AF:42:LEU:HD23	1.96	0.47
3:AF:302:ALA:HB1	3:AF:377:LEU:HD11	1.95	0.47
3:AH:166:THR:OG1	3:AH:198:GLU:O	2.20	0.47
3:AH:172:SER:OG	3:AH:205:GLU:OE2	2.29	0.47
4:AI:84:ARG:HA	4:AI:87:PHE:HD2	1.79	0.47
3:AL:81:PHE:HD1	3:AL:84:ILE:HG13	1.78	0.47
5:B2:164:LEU:O	5:B2:168:ILE:HG12	2.14	0.47
5:B2:204:ASN:HB3	5:B2:207:ARG:NH2	2.29	0.47
5:B3:299:ARG:HD2	5:B4:46:ARG:HH12	1.79	0.47
5:B7:237:ILE:HA	5:B7:240:ARG:HE	1.79	0.47
5:B7:281:TRP:CD1	5:B7:282:GLN:HE21	2.32	0.47
5:B8:86:ASP:HA	5:B8:169:ARG:NH2	2.29	0.47
3:BD:4:ILE:HB	3:BD:50:TYR:CE1	2.50	0.47
4:BE:317:MET:HE1	4:BE:351:PHE:HB3	1.97	0.47
4:BE:324:VAL:HG11	3:BF:219:THR:HB	1.95	0.47
4:BE:406:HIS:HA	4:BE:409:VAL:HG22	1.96	0.47
3:BF:279:GLN:HA	13:G1:109:ILE:HD11	1.96	0.47
4:BG:415:GLU:OE1	4:BG:415:GLU:N	2.47	0.47
3:BH:172:SER:OG	3:BH:205:GLU:OE2	2.20	0.47
3:BL:291:GLN:NE2	3:BL:295:ASP:OD1	2.47	0.47
6:C:101:TYR:HA	6:C:104:ARG:HH21	1.79	0.47
7:C2:368:THR:O	7:C2:372:ILE:HG13	2.13	0.47
7:C3:447:SER:O	7:C3:451:THR:HG23	2.14	0.47
7:C9:377:MET:HA	7:C9:380:GLU:CD	2.39	0.47
3:CB:13:GLY:HA2	3:CB:16:ILE:HB	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CC:196:GLU:HG2	4:CC:197:HIS:ND1	2.29	0.47
3:CD:412:GLU:HA	3:CD:415:MET:HG3	1.96	0.47
4:CE:262:TYR:CE1	3:CF:393:ALA:HA	2.49	0.47
3:CF:27:GLU:O	3:CF:359:ARG:NH2	2.42	0.47
3:CF:34:GLY:HA3	3:CF:58:LYS:HZ2	1.79	0.47
3:CF:246:LEU:HB3	3:CF:353:VAL:O	2.14	0.47
3:CH:123:GLU:O	3:CH:126:SER:OG	2.27	0.47
3:CH:152:ILE:HD12	3:CH:195:ASN:HB2	1.94	0.47
4:CI:51:THR:HG23	4:CI:52:PHE:HD2	1.79	0.47
4:CI:346:TRP:O	3:CJ:388:MET:HE1	2.14	0.47
4:CK:318:LEU:O	4:CK:375:VAL:HA	2.14	0.47
4:CK:411:GLU:OE2	4:CK:413:MET:HE1	2.14	0.47
3:CL:384:GLN:O	3:CL:388:MET:HG2	2.14	0.47
4:CM:67:PHE:O	4:CM:93:ILE:N	2.46	0.47
7:Ca:192:LEU:HB2	7:Ca:226:ILE:HG21	1.95	0.47
7:Ca:405:ARG:HH12	10:E1:5:ARG:HH22	1.62	0.47
7:Cb:93:ARG:HB3	8:D1:38:SER:HB3	1.96	0.47
7:Cb:339:GLN:HA	7:Cb:342:LYS:HE3	1.96	0.47
7:Cc:378:THR:HG21	7:Cd:121:ARG:HG2	1.96	0.47
6:D:264:LYS:O	6:D:268:ILE:N	2.45	0.47
6:D:264:LYS:HG2	6:D:372:ALA:O	2.15	0.47
6:D:340:PHE:O	6:D:344:CYS:N	2.47	0.47
8:D2:169:ARG:NH1	8:D2:174:VAL:HG23	2.29	0.47
8:D9:90:ALA:C	8:D9:94:ARG:HE	2.20	0.47
4:DA:328:VAL:O	4:DA:332:ILE:HG12	2.14	0.47
4:DE:213:CYS:O	4:DE:218:ASP:N	2.47	0.47
3:DF:31:ASP:OD2	3:DF:35:THR:OG1	2.28	0.47
4:DG:433:GLU:O	4:DG:437:VAL:N	2.35	0.47
4:DI:115:VAL:HA	4:DI:118:VAL:HG22	1.97	0.47
3:DJ:41:ASP:N	3:DJ:41:ASP:OD1	2.46	0.47
4:DK:160:ASP:OD1	4:DK:161:TYR:N	2.47	0.47
4:DK:420:GLU:HA	4:DK:423:GLU:OE2	2.14	0.47
3:DL:378:PHE:CZ	3:DL:422:TYR:HD2	2.33	0.47
4:EA:31:GLN:HE22	4:EA:37:PRO:HD3	1.78	0.47
4:EA:116:ASP:N	4:EA:116:ASP:OD1	2.47	0.47
3:EB:234:SER:O	3:EB:238:THR:HG23	2.14	0.47
4:EC:272:TYR:CZ	4:EC:274:PRO:HG2	2.49	0.47
4:EE:217:LEU:HD13	4:EE:277:SER:HA	1.95	0.47
3:EF:235:GLY:O	3:EF:238:THR:OG1	2.26	0.47
4:EI:252:LEU:HA	4:EI:255:PHE:CD2	2.49	0.47
3:EJ:51:TYR:CD1	3:EJ:61:PRO:HA	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EJ:83:GLN:O	3:EJ:86:ARG:NH2	2.47	0.47
3:EJ:361:LEU:HD11	3:EJ:364:SER:HB3	1.97	0.47
4:EK:288:VAL:HG11	4:EK:327:ASP:HB2	1.95	0.47
11:F2:213:LYS:O	11:F2:217:ARG:HG2	2.14	0.47
11:F3:232:LEU:HD23	11:F3:235:ARG:NH2	2.27	0.47
11:F3:236:ILE:O	11:F3:239:GLN:NE2	2.47	0.47
11:F3:262:TYR:O	11:F3:266:ASN:ND2	2.47	0.47
11:F7:401:ARG:CZ	11:F7:401:ARG:HA	2.45	0.47
4:FC:183:GLU:N	4:FC:184:PRO:HD2	2.28	0.47
3:FF:357:PRO:HB3	3:FF:362:LYS:O	2.14	0.47
4:FI:22:GLU:O	4:FI:26:LEU:HD23	2.14	0.47
3:FL:240:LEU:HD22	3:FL:248:ALA:HB1	1.95	0.47
11:Fa:175:ARG:O	11:Fa:178:GLU:HG3	2.13	0.47
11:Fa:415:ARG:NH2	11:Fb:138:THR:HA	2.28	0.47
11:Fc:287:ASP:OD1	11:Fc:287:ASP:N	2.46	0.47
11:Fc:301:ASN:HB3	11:Fc:305:ARG:HH21	1.78	0.47
11:Fi:189:GLN:HA	11:Fi:192:LEU:HD12	1.96	0.47
11:Fi:431:LYS:HG3	11:Fi:432:LEU:HD12	1.96	0.47
11:Fj:235:ARG:HA	11:Fj:238:PHE:CD2	2.49	0.47
11:Fk:414:PHE:HB2	11:Fk:418:ASN:ND2	2.29	0.47
11:Fm:183:GLU:O	11:Fm:187:PRO:HD2	2.15	0.47
12:G:62:LEU:HD11	4:JK:130:THR:HG21	1.95	0.47
13:G1:474:LYS:HG2	13:G1:476:PHE:H	1.79	0.47
13:G2:109:ILE:HG13	13:G2:110:SER:N	2.29	0.47
13:G2:348:ASP:H	13:G2:351:THR:HB	1.79	0.47
13:G3:361:MET:HG2	13:G3:362:PRO:HD2	1.95	0.47
14:G6:251:LEU:HD23	14:G6:251:LEU:H	1.79	0.47
4:GA:333:ALA:HA	4:GA:336:LYS:HD2	1.96	0.47
3:GB:46:ARG:HH12	4:GC:73:THR:HG23	1.79	0.47
3:GB:406:MET:O	3:GB:409:THR:OG1	2.20	0.47
4:GC:333:ALA:HA	4:GC:336:LYS:HD2	1.96	0.47
4:GE:396:ASP:OD1	4:GE:397:LEU:N	2.47	0.47
3:GF:191:GLN:CD	3:GF:191:GLN:H	2.22	0.47
3:GL:239:CYS:SG	3:GL:248:ALA:HA	2.54	0.47
3:GL:293:MET:HE3	3:GL:367:PHE:HB2	1.95	0.47
15:H2:20:TYR:HB2	15:H2:24:TYR:OH	2.13	0.47
15:H5:250:ASN:HB2	15:H5:254:PHE:HE2	1.79	0.47
15:H6:251:GLN:O	15:H6:255:ARG:HG3	2.12	0.47
4:HA:12:ALA:O	39:HA:501:GTP:N2	2.47	0.47
4:HA:362:VAL:HA	4:HA:368:LEU:HD11	1.96	0.47
3:HB:344:TRP:HA	4:HC:401:LYS:NZ	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HG:105:ARG:O	4:HG:109:THR:OG1	2.25	0.47
4:HG:260:VAL:HG23	4:HG:265:ILE:O	2.13	0.47
3:HH:12:CYS:HA	39:HH:501:GTP:N2	2.29	0.47
4:HI:1:MET:SD	4:HI:2:ARG:N	2.86	0.47
4:HI:230:LEU:O	4:HI:234:ILE:HG12	2.14	0.47
4:HK:247:ALA:HB3	4:HK:355:ILE:HG21	1.96	0.47
3:HL:12:CYS:SG	3:HL:13:GLY:N	2.87	0.47
3:HL:372:THR:HB	3:HL:375:GLN:HE22	1.78	0.47
17:I3:64:LEU:HD23	17:I3:64:LEU:H	1.78	0.47
3:IB:267:MET:O	3:IB:368:ILE:HD12	2.15	0.47
4:IG:363:VAL:H	4:IG:368:LEU:HD21	1.79	0.47
3:IH:234:SER:O	3:IH:238:THR:HG23	2.14	0.47
3:IH:324:LYS:HE2	4:II:222:PRO:HG2	1.96	0.47
4:II:171:ILE:HD12	4:II:204:VAL:HG13	1.95	0.47
4:II:220:GLU:O	4:II:221:ARG:NE	2.41	0.47
4:II:274:PRO:HG3	4:II:374:ALA:HA	1.96	0.47
3:IJ:8:GLN:OE1	3:IJ:8:GLN:N	2.46	0.47
4:IK:70:LEU:HB3	4:IK:97:GLU:O	2.14	0.47
4:IM:32:PRO:O	4:IM:85:GLN:NE2	2.46	0.47
18:J:143:GLY:O	18:J:146:GLU:HG3	2.14	0.47
18:J:156:LYS:NZ	18:J:158:SER:OG	2.48	0.47
18:J:176:MET:CE	4:KI:29:GLY:H	2.24	0.47
19:J3:178:ILE:HG13	19:J3:179:TYR:H	1.79	0.47
4:JE:11:GLN:O	4:JE:14:VAL:HG22	2.14	0.47
4:JE:34:GLY:HA2	4:JE:86:LEU:HD11	1.96	0.47
4:JG:154:MET:HA	4:JG:157:LEU:HG	1.94	0.47
4:JI:208:ALA:HB2	4:JI:304:LYS:HE3	1.96	0.47
4:JK:216:ASN:OD1	4:JK:217:LEU:N	2.47	0.47
4:JK:364:PRO:HB3	32:T:324:ARG:CZ	2.45	0.47
21:K2:328:ILE:HG12	21:K2:331:ARG:HH21	1.79	0.47
21:K3:475:GLU:HB2	4:LG:339:ARG:HE	1.78	0.47
21:K4:172:LEU:HD23	21:K4:206:LEU:HD23	1.96	0.47
3:KD:46:ARG:NH2	4:KE:73:THR:HA	2.24	0.47
3:KD:324:LYS:HE2	4:KE:222:PRO:HG2	1.95	0.47
4:KE:202:PHE:CD1	4:KE:268:PRO:HD2	2.50	0.47
3:KH:12:CYS:HB3	39:KH:501:GTP:H5'	1.96	0.47
3:KH:206:ALA:O	3:KH:210:ILE:HG12	2.13	0.47
3:KH:337:ASN:OD1	3:KH:340:TYR:HB2	2.14	0.47
4:KI:107:HIS:CD2	4:KI:152:LEU:HB2	2.49	0.47
3:KJ:52:ASN:OD1	3:KJ:62:ARG:NH1	2.44	0.47
4:KK:88:HIS:CD2	4:LK:280:LYS:HZ1	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:KK:280:LYS:HZ2	4:KK:283:HIS:CE1	2.31	0.47
3:KL:224:ASP:O	3:KL:228:LEU:HG	2.14	0.47
3:KL:234:SER:O	3:KL:238:THR:HG23	2.14	0.47
22:L1:94:HIS:HB2	24:M1:42:LEU:HD11	1.96	0.47
4:LC:54:SER:N	4:LC:62:VAL:O	2.47	0.47
4:LC:205:ASP:OD2	4:LC:304:LYS:NZ	2.33	0.47
3:LD:120:VAL:O	3:LD:124:ALA:N	2.37	0.47
3:LD:304:ASP:O	3:LD:307:HIS:ND1	2.46	0.47
4:LE:268:PRO:HB2	4:LE:378:LEU:HD11	1.96	0.47
3:LF:148:GLY:O	3:LF:152:ILE:HG12	2.14	0.47
3:LF:309:ARG:NH1	3:LF:342:VAL:HA	2.29	0.47
3:LH:49:VAL:HG13	3:LH:50:TYR:CD2	2.49	0.47
3:LJ:73:MET:HA	3:LJ:76:VAL:HG22	1.96	0.47
3:LJ:73:MET:HE1	3:LJ:92:PHE:CG	2.49	0.47
4:LK:220:GLU:HG2	4:LK:221:ARG:HG2	1.97	0.47
3:LL:234:SER:O	3:LL:238:THR:HG23	2.14	0.47
3:LL:240:LEU:HD22	3:LL:248:ALA:HB1	1.95	0.47
23:M:137:SER:HG	23:M:146:ILE:H	1.61	0.47
3:MD:12:CYS:SG	3:MD:13:GLY:N	2.87	0.47
4:ME:49:PHE:CE1	4:ME:55:GLU:HB3	2.48	0.47
4:ME:262:TYR:CE1	3:MF:393:ALA:HA	2.48	0.47
3:MF:12:CYS:SG	39:MF:501:GTP:H5'	2.53	0.47
3:MF:32:PRO:C	3:MF:83:GLN:HE21	2.22	0.47
4:MG:51:THR:HG23	4:MG:52:PHE:HD2	1.80	0.47
4:MG:186:ASN:HA	4:MG:189:LEU:HD12	1.96	0.47
3:MH:3:GLU:OE2	3:MH:127:CYS:HB3	2.13	0.47
3:MH:32:PRO:O	3:MH:83:GLN:NE2	2.40	0.47
3:MH:172:SER:HB3	3:MH:175:VAL:O	2.14	0.47
3:MH:173:PRO:O	3:MH:380:ARG:NH2	2.48	0.47
3:MJ:40:SER:HB3	3:MJ:42:LEU:HD23	1.96	0.47
3:MJ:52:ASN:OD1	3:MJ:62:ARG:NH1	2.45	0.47
3:ML:130:LEU:HB2	3:ML:162:ARG:HH11	1.80	0.47
3:ML:383:GLU:HG2	28:O3:32:ILE:HG12	1.96	0.47
3:ML:406:MET:SD	3:ML:407:GLU:N	2.87	0.47
3:ML:410:GLU:HB2	30:Q3:1417:ARG:NH2	2.28	0.47
4:MM:433:GLU:O	4:MM:437:VAL:N	2.41	0.47
4:NA:70:LEU:HG	4:NA:149:PHE:CZ	2.50	0.47
4:NA:88:HIS:HB3	4:NA:91:GLN:HB2	1.95	0.47
3:NB:139:LEU:N	3:NB:168:SER:OG	2.46	0.47
4:NC:10:GLY:O	4:NC:14:VAL:HG13	2.13	0.47
4:NE:47:ASP:HB3	4:NE:49:PHE:CE2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:NE:54:SER:N	4:NE:62:VAL:O	2.47	0.47
4:NE:105:ARG:HG2	4:NE:109:THR:HG21	1.96	0.47
3:NF:11:GLN:HE21	39:NF:501:GTP:H3'	1.79	0.47
4:NG:70:LEU:HB2	4:NG:145:THR:HG21	1.97	0.47
4:NG:386:GLU:O	4:NG:390:ARG:HG2	2.15	0.47
3:NH:87:PRO:HA	3:NH:90:PHE:CD2	2.49	0.47
3:NJ:285:THR:O	3:NJ:288:GLU:HG3	2.14	0.47
4:NK:273:ALA:HB2	4:NK:295:CYS:HB3	1.95	0.47
3:NL:173:PRO:O	3:NL:380:ARG:NH2	2.47	0.47
28:O1:50:LEU:O	28:O1:53:VAL:HG22	2.14	0.47
28:O2:25:ALA:HB1	28:O2:26:ARG:NH1	2.29	0.47
4:OA:119:LEU:HB3	4:OA:123:ARG:NH2	2.29	0.47
4:OA:171:ILE:HD12	4:OA:204:VAL:HG13	1.95	0.47
4:OC:104:ALA:HA	4:OC:107:HIS:HB3	1.97	0.47
4:OE:269:LEU:N	4:OE:379:SER:O	2.40	0.47
3:OF:47:ILE:HG12	3:OF:59:TYR:CD2	2.50	0.47
3:OH:173:PRO:HA	3:OH:380:ARG:CZ	2.44	0.47
3:OH:309:ARG:H	3:OH:372:THR:HG1	1.56	0.47
29:P1:243:GLY:HA3	29:P1:281:TYR:CD2	2.49	0.47
29:P2:494:ARG:HD3	29:P2:495:ARG:N	2.28	0.47
29:P3:248:LYS:HB2	3:WL:33:THR:HG22	1.96	0.47
4:PA:235:VAL:HA	4:PA:238:ILE:HG12	1.97	0.47
3:PB:131:GLN:HB3	3:PB:163:ILE:HD12	1.96	0.47
3:PB:271:ALA:HB2	3:PB:365:ALA:HB3	1.95	0.47
4:PC:3:GLU:H	4:PC:133:GLN:HE22	1.61	0.47
3:PD:139:LEU:N	3:PD:168:SER:OG	2.47	0.47
4:PE:172:TYR:HD1	4:PE:203:MET:HG2	1.78	0.47
4:PG:167:LEU:HD11	4:PG:252:LEU:HD12	1.96	0.47
3:PH:404:ASP:OD1	3:PH:404:ASP:N	2.46	0.47
4:PI:12:ALA:O	39:PI:501:GTP:N1	2.47	0.47
3:PL:178:THR:HB	3:PL:181:GLU:HB2	1.96	0.47
30:Q2:1351:ASP:N	30:Q2:1351:ASP:OD1	2.45	0.47
30:Q3:1457:SER:HB2	30:Q3:1481:TYR:OH	2.14	0.47
3:QB:130:LEU:HB2	3:QB:162:ARG:NH1	2.29	0.47
4:QC:113:GLU:OE1	4:QC:113:GLU:N	2.45	0.47
4:QE:287:SER:N	4:QE:290:GLU:OE2	2.47	0.47
4:QG:387:ALA:O	4:QG:391:LEU:HG	2.14	0.47
3:QJ:398:TYR:HB3	3:QJ:403:MET:HB2	1.96	0.47
4:QK:5:ILE:HD13	4:QK:64:ARG:HB3	1.95	0.47
3:QL:245:GLN:HG3	4:QM:11:GLN:HE22	1.79	0.47
4:QM:316:CYS:HB3	4:QM:378:LEU:HB2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:RE:47:ASP:HB3	4:RE:49:PHE:CE2	2.49	0.47
3:RJ:2:ARG:HA	3:RJ:129:CYS:O	2.14	0.47
3:RJ:87:PRO:HA	3:RJ:90:PHE:CD2	2.49	0.47
4:RK:260:VAL:O	3:RL:397:TRP:HH2	1.97	0.47
4:RK:427:ALA:HA	4:RK:430:LYS:HG2	1.96	0.47
3:RL:285:THR:O	3:RL:288:GLU:HG3	2.14	0.47
4:RM:81:GLY:O	4:RM:84:ARG:NH1	2.47	0.47
4:SC:331:ALA:O	4:SC:334:THR:OG1	2.27	0.47
3:SD:375:GLN:C	3:SD:379:LYS:HZ2	2.22	0.47
3:SF:52:ASN:ND2	3:SF:62:ARG:HD3	2.29	0.47
3:SF:109:GLY:O	3:SF:113:VAL:HG13	2.14	0.47
4:SG:35:GLN:HG2	4:SG:59:GLY:O	2.13	0.47
3:SJ:342:VAL:HB	3:SJ:344:TRP:HD1	1.78	0.47
4:SK:141:PHE:HE2	4:SK:203:MET:SD	2.37	0.47
3:SL:130:LEU:HB2	3:SL:162:ARG:HH11	1.78	0.47
4:SM:34:GLY:HA2	4:SM:86:LEU:HD11	1.95	0.47
3:TB:12:CYS:SG	39:TB:501:GTP:H5'	2.54	0.47
3:TB:61:PRO:HD3	3:TB:84:ILE:HG13	1.96	0.47
3:TB:300:MET:SD	3:TB:300:MET:N	2.87	0.47
3:TD:235:GLY:O	3:TD:238:THR:OG1	2.22	0.47
3:TD:372:THR:HG21	3:TD:426:GLN:HG3	1.96	0.47
4:TE:207:GLU:HB2	4:TE:304:LYS:NZ	2.28	0.47
3:TF:289:LEU:O	3:TF:293:MET:HG2	2.14	0.47
4:TG:419:SER:HA	4:TG:422:ARG:NE	2.25	0.47
3:TH:334:GLN:O	3:TH:338:SER:OG	2.25	0.47
4:TI:163:LYS:HA	4:TI:163:LYS:HD3	1.74	0.47
3:TL:324:LYS:HE2	4:TM:222:PRO:N	2.28	0.47
4:TM:154:MET:HE2	4:TM:194:THR:HG22	1.96	0.47
3:TN:309:ARG:H	3:TN:372:THR:HG1	1.60	0.47
4:UA:89:PRO:HD2	4:VA:280:LYS:HZ3	1.79	0.47
4:UC:390:ARG:HA	4:UC:393:HIS:CD2	2.50	0.47
4:UE:331:ALA:O	4:UE:334:THR:OG1	2.30	0.47
3:UF:11:GLN:HE21	39:UF:501:GTP:H3'	1.79	0.47
3:UH:8:GLN:NE2	3:UH:17:GLY:HA3	2.29	0.47
3:UH:152:ILE:O	3:UH:156:ARG:HG2	2.14	0.47
3:UJ:12:CYS:SG	39:UJ:501:GTP:H5'	2.55	0.47
3:UJ:77:ARG:HD3	3:UJ:90:PHE:CE2	2.50	0.47
4:UK:329:ASN:HA	4:UK:332:ILE:HG12	1.97	0.47
3:UL:380:ARG:O	3:UL:384:GLN:HG2	2.13	0.47
4:VC:52:PHE:HZ	4:VC:239:THR:HB	1.78	0.47
4:VC:70:LEU:HA	4:VC:95:GLY:HA3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:VK:36:MET:HE3	4:VK:37:PRO:HD3	1.96	0.47
4:VK:287:SER:N	4:VK:290:GLU:OE2	2.47	0.47
3:VL:299:MET:SD	3:VL:300:MET:N	2.87	0.47
3:VL:305:PRO:HA	3:VL:373:ALA:HB2	1.97	0.47
3:WB:309:ARG:NH1	3:WB:342:VAL:HA	2.29	0.47
4:WC:76:ASP:OD1	4:WC:79:ARG:NH1	2.47	0.47
4:WC:91:GLN:HG3	4:WC:121:ARG:HH21	1.79	0.47
4:WC:145:THR:HG23	39:WC:501:GTP:O3B	2.14	0.47
4:WG:21:TRP:HE1	4:WG:65:ALA:HB3	1.79	0.47
4:WG:186:ASN:OD1	4:WG:187:SER:N	2.47	0.47
4:WG:208:ALA:H	4:WG:304:LYS:NZ	2.12	0.47
3:WH:380:ARG:O	3:WH:384:GLN:HG2	2.14	0.47
4:WI:1:MET:SD	4:WI:2:ARG:N	2.87	0.47
4:WI:254:GLU:OE1	4:WI:254:GLU:N	2.44	0.47
4:WI:311:LYS:N	4:WI:382:THR:OG1	2.46	0.47
3:WL:206:ALA:O	3:WL:210:ILE:HG12	2.14	0.47
33:X:464:GLN:HA	33:X:467:LYS:HZ2	1.79	0.47
34:XE:107:ASN:HA	34:XE:123:MET:HB2	1.95	0.47
35:XH:119:LEU:HB2	35:XH:158:HIS:CE1	2.49	0.47
35:XL:180:ILE:HG12	35:XL:184:PHE:CZ	2.49	0.47
35:XM:170:LEU:HD12	35:XM:173:TYR:HB2	1.95	0.47
37:YA:137:VAL:HA	37:YA:140:LEU:HD23	1.95	0.47
37:YD:83:PHE:HZ	37:YD:148:MET:HE3	1.79	0.47
37:YE:112:SER:HA	37:YE:135:GLY:HA3	1.95	0.47
37:YG:128:ASP:HA	37:YG:131:ARG:HD3	1.96	0.47
37:YK:152:ILE:HD12	37:YK:155:SER:HB2	1.96	0.47
37:YN:155:SER:HA	37:YN:158:LEU:HG	1.96	0.47
37:YP:82:HIS:O	37:YP:86:LEU:HG	2.14	0.47
37:YQ:14:LYS:HD3	37:YQ:15:TYR:CD1	2.49	0.47
37:YU:8:LEU:HD11	37:YU:145:LEU:HD22	1.96	0.47
1:A:210:LEU:O	1:A:214:LEU:HD23	2.14	0.47
3:AB:324:LYS:HE2	4:AC:222:PRO:HG2	1.96	0.47
4:AC:196:GLU:HG2	4:AC:197:HIS:ND1	2.29	0.47
4:AC:263:PRO:HB2	4:AC:264:ARG:NH1	2.29	0.47
3:AD:52:ASN:OD1	3:AD:62:ARG:NH1	2.46	0.47
4:AE:119:LEU:HB3	4:AE:123:ARG:NH2	2.29	0.47
4:AE:395:PHE:HA	4:AE:398:MET:HE2	1.95	0.47
3:AL:218:THR:OG1	3:AL:219:THR:N	2.47	0.47
4:AM:401:LYS:HA	4:AM:402:ARG:HH11	1.79	0.47
1:B:347:GLN:HA	1:B:350:MET:HG2	1.96	0.47
5:B3:204:ASN:HB3	5:B3:207:ARG:NH2	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B7:108:LEU:HD21	5:B7:396:LYS:HG2	1.97	0.47
5:B7:296:ASP:O	5:B7:300:LEU:HG	2.14	0.47
5:B8:309:MET:HA	5:B8:312:LYS:HD2	1.95	0.47
3:BD:197:ASP:OD1	3:BD:198:GLU:N	2.47	0.47
3:BD:272:PRO:HA	3:BD:292:GLN:OE1	2.14	0.47
4:BE:263:PRO:O	4:BE:265:ILE:N	2.47	0.47
4:BI:9:VAL:HG22	4:BI:146:GLY:HA2	1.96	0.47
3:BJ:2:ARG:HB3	3:BJ:131:GLN:NE2	2.29	0.47
3:BL:197:ASP:OD1	3:BL:198:GLU:N	2.47	0.47
3:BL:272:PRO:HA	3:BL:292:GLN:OE1	2.13	0.47
6:C:165:TYR:CZ	7:Cb:155:PHE:HA	2.48	0.47
7:C2:403:ARG:HE	7:C2:417:GLN:HE22	1.62	0.47
7:C7:378:THR:O	7:C7:381:SER:OG	2.28	0.47
7:C8:124:THR:O	7:C8:128:ILE:HG12	2.14	0.47
4:CC:85:GLN:OE1	4:CC:85:GLN:N	2.30	0.47
4:CE:224:TYR:CE1	39:CE:501:GTP:C5	3.01	0.47
3:CF:1:MET:C	3:CF:2:ARG:HD3	2.38	0.47
3:CF:194:GLU:OE1	3:CF:195:ASN:ND2	2.47	0.47
4:CI:89:PRO:HD2	4:DG:280:LYS:NZ	2.30	0.47
3:CJ:17:GLY:HA2	3:CJ:20:PHE:HB3	1.96	0.47
3:CJ:269:GLY:O	3:CJ:367:PHE:N	2.30	0.47
3:CJ:324:LYS:HG3	4:CK:221:ARG:NH1	2.28	0.47
3:CJ:423:GLN:O	3:CJ:427:ASP:N	2.47	0.47
4:CK:39:ASP:HB3	14:G6:231:ARG:NH2	2.29	0.47
4:CK:251:ASP:HB3	4:CK:254:GLU:OE1	2.15	0.47
3:CL:79:GLY:HA2	14:G6:280:ARG:NH1	2.29	0.47
3:CL:83:GLN:O	3:CL:86:ARG:NH2	2.48	0.47
3:CL:234:SER:O	3:CL:238:THR:HG23	2.13	0.47
4:CM:20:CYS:O	4:CM:24:TYR:N	2.40	0.47
4:CM:36:MET:HE3	4:CM:36:MET:HA	1.97	0.47
7:Cc:185:LEU:HD11	7:Cc:237:LEU:HD11	1.96	0.47
7:Cc:402:GLU:OE1	7:Cc:402:GLU:N	2.43	0.47
7:Cd:157:LYS:HG3	7:Cd:258:LEU:HD11	1.96	0.47
8:D2:77:GLN:NE2	8:D3:397:ASP:OD1	2.47	0.47
8:D3:91:LEU:HD21	8:D4:383:GLU:HG2	1.97	0.47
8:D4:239:GLN:C	8:D5:351:ARG:HG3	2.39	0.47
8:D5:305:SER:HA	8:D5:308:CYS:SG	2.54	0.47
8:D9:272:ARG:HH12	8:D9:273:LEU:HG	1.80	0.47
4:DA:244:PHE:CE2	4:DA:358:GLN:HG2	2.49	0.47
3:DB:41:ASP:N	3:DB:41:ASP:OD1	2.45	0.47
4:DC:66:VAL:HG12	4:DC:68:VAL:HG13	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DC:390:ARG:HA	4:DC:393:HIS:CD2	2.49	0.47
3:DD:8:GLN:HE21	3:DD:14:ASN:HA	1.79	0.47
3:DD:324:LYS:HD3	4:DE:210:TYR:CE1	2.50	0.47
4:DG:333:ALA:HA	4:DG:336:LYS:HD2	1.96	0.47
4:DG:346:TRP:HE1	3:DH:391:ARG:NH1	2.12	0.47
4:DG:402:ARG:HB2	4:DG:405:VAL:HG11	1.96	0.47
3:DJ:318:ARG:C	3:DJ:321:MET:HE1	2.39	0.47
3:DL:152:ILE:HA	3:DL:155:ILE:HG12	1.95	0.47
9:E:617:LEU:HB2	9:E:621:LEU:HB2	1.96	0.47
9:E:801:LEU:HD12	9:E:804:ILE:HD11	1.95	0.47
10:E1:171:SER:C	10:E1:172:LEU:HD22	2.39	0.47
10:E2:126:GLN:HB2	10:E2:133:ARG:NE	2.29	0.47
4:EA:319:TYR:HE2	4:EA:328:VAL:HG13	1.79	0.47
3:EB:3:GLU:OE2	3:EB:128:ASP:N	2.47	0.47
4:EC:47:ASP:O	4:EC:50:ASN:N	2.30	0.47
3:ED:86:ARG:HD2	3:FD:281:TYR:CZ	2.50	0.47
3:EF:286:VAL:HG12	3:EF:329:GLN:HG3	1.96	0.47
4:EG:3:GLU:OE2	4:EG:130:THR:N	2.33	0.47
4:EG:262:TYR:HE1	3:EH:393:ALA:HA	1.79	0.47
3:EH:217:LEU:HA	13:G2:396:ASN:CG	2.40	0.47
4:EI:47:ASP:HB3	4:EI:49:PHE:CE2	2.49	0.47
4:EI:67:PHE:HB2	4:EI:92:LEU:HD13	1.96	0.47
4:EI:154:MET:HE1	4:EI:197:HIS:HB2	1.95	0.47
3:EJ:176:SER:O	3:EJ:178:THR:N	2.47	0.47
4:EK:273:ALA:HB2	4:EK:295:CYS:HB3	1.94	0.47
3:EL:117:LEU:HD11	3:EL:154:LYS:HD2	1.96	0.47
11:F1:370:GLN:O	11:F1:374:THR:HG23	2.13	0.47
11:F3:333:TRP:C	11:F3:333:TRP:CD1	2.92	0.47
11:F7:295:THR:HA	11:F7:298:LYS:HG2	1.95	0.47
11:F9:396:LEU:HD13	11:F9:420:VAL:HG21	1.97	0.47
3:FB:406:MET:O	3:FB:409:THR:OG1	2.23	0.47
4:FC:66:VAL:HG12	4:FC:68:VAL:HG13	1.96	0.47
4:FC:346:TRP:N	4:FC:346:TRP:CD1	2.83	0.47
3:FD:70:PRO:O	3:FD:74:ASP:N	2.34	0.47
3:FD:378:PHE:CD1	3:FD:419:VAL:HG22	2.49	0.47
3:FF:167:PHE:HD1	3:FF:200:TYR:CD2	2.33	0.47
4:FG:5:ILE:HD13	4:FG:64:ARG:HB3	1.95	0.47
4:FG:185:TYR:CE2	4:FG:398:MET:HE1	2.50	0.47
4:FG:234:ILE:O	4:FG:237:SER:OG	2.30	0.47
4:FG:234:ILE:HD11	4:FG:272:TYR:HB2	1.96	0.47
4:FG:271:THR:O	4:FG:377:MET:HG3	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FI:118:VAL:O	4:FI:122:ILE:HG12	2.15	0.47
11:Fa:293:PRO:HA	11:Fa:296:TRP:CZ3	2.50	0.47
11:Fa:453:HIS:O	11:Fa:457:ILE:HG12	2.14	0.47
11:Fb:170:MET:HA	11:Fb:173:LEU:HD12	1.95	0.47
11:Ff:100:ASP:HB3	11:Ff:104:ARG:HH12	1.79	0.47
11:Fh:431:LYS:HA	11:Fh:434:LEU:HD12	1.96	0.47
11:Fi:146:LEU:HD23	11:Fi:149:LEU:HD21	1.96	0.47
11:Fj:209:ASP:N	11:Fj:212:GLU:OE1	2.48	0.47
11:Fl:350:GLU:OE1	11:Fl:462:LEU:HB2	2.14	0.47
13:G3:275:ILE:HG13	13:G3:292:MET:HE3	1.95	0.47
14:G5:418:PHE:O	14:G5:422:MET:HG2	2.14	0.47
14:G5:627:PHE:O	14:G5:633:GLU:HG2	2.15	0.47
14:G6:404:ARG:HD2	14:G6:414:HIS:HB3	1.95	0.47
4:GC:54:SER:N	4:GC:62:VAL:O	2.48	0.47
4:GC:216:ASN:ND2	4:GC:275:VAL:HG23	2.28	0.47
4:GC:423:GLU:HA	4:GC:426:ALA:HB3	1.96	0.47
4:GE:223:THR:OG1	4:GE:225:THR:OG1	2.31	0.47
3:GF:25:SER:O	3:GF:29:GLY:N	2.45	0.47
4:GG:271:THR:N	4:GG:377:MET:O	2.48	0.47
3:GH:11:GLN:HG3	39:GH:501:GTP:PA	2.53	0.47
3:GJ:326:VAL:O	3:GJ:330:MET:HG2	2.14	0.47
3:GL:3:GLU:OE2	3:GL:129:CYS:N	2.47	0.47
15:H1:311:GLU:HA	15:H1:315:ARG:CG	2.44	0.47
15:H3:302:ASN:O	15:H3:305:ARG:N	2.48	0.47
4:HA:17:GLY:O	4:HA:21:TRP:HD1	1.98	0.47
4:HE:125:LEU:HD13	4:HE:128:LEU:HD21	1.95	0.47
3:HF:178:THR:HB	3:HF:181:GLU:HB2	1.95	0.47
4:HI:405:VAL:O	4:HI:409:VAL:HG22	2.14	0.47
3:HJ:3:GLU:O	3:HJ:130:LEU:HD12	2.14	0.47
3:HJ:39:ASP:OD1	3:HJ:43:GLN:NE2	2.46	0.47
3:HL:423:GLN:O	3:HL:427:ASP:N	2.26	0.47
4:IC:116:ASP:OD1	4:IC:116:ASP:N	2.44	0.47
4:IC:165:SER:C	4:IC:166:LYS:HD2	2.39	0.47
4:IC:399:TYR:CE2	4:IC:418:PHE:HB3	2.49	0.47
4:IE:34:GLY:HA2	4:IE:86:LEU:HD11	1.95	0.47
4:IE:396:ASP:OD1	4:IE:397:LEU:N	2.47	0.47
4:IG:317:MET:SD	4:IG:317:MET:N	2.79	0.47
3:IH:52:ASN:OD1	3:IH:62:ARG:NH1	2.45	0.47
3:IH:261:PRO:O	3:IH:264:HIS:NE2	2.47	0.47
3:IL:316:VAL:HG22	3:IL:352:ALA:HB3	1.95	0.47
4:IM:271:THR:HA	4:IM:302:MET:HE1	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:JC:46:ASP:OD1	4:JC:50:ASN:ND2	2.42	0.47
3:JD:261:PRO:HD3	4:JE:406:HIS:CG	2.50	0.47
3:JD:390:ARG:HH12	3:JD:391:ARG:HH21	1.61	0.47
4:JE:217:LEU:HD13	4:JE:277:SER:HA	1.97	0.47
3:JF:415:MET:O	3:JF:419:VAL:HG23	2.15	0.47
3:JH:263:LEU:HD12	3:JH:370:ASN:HD21	1.79	0.47
4:JI:280:LYS:O	4:JI:284:GLU:HB2	2.14	0.47
4:JK:3:GLU:OE2	4:JK:130:THR:N	2.33	0.47
3:JL:305:PRO:HA	3:JL:373:ALA:HB2	1.96	0.47
21:K1:397:LEU:O	21:K1:400:MET:HB3	2.15	0.47
21:K2:306:GLU:O	21:K2:310:ILE:HG12	2.14	0.47
21:K2:325:GLN:NE2	21:K2:326:GLN:HB3	2.29	0.47
21:K2:454:HIS:HA	21:K2:457:ASP:HB2	1.96	0.47
21:K3:149:GLY:O	21:K3:153:LEU:HG	2.15	0.47
4:KA:47:ASP:HB3	4:KA:49:PHE:CE2	2.50	0.47
4:KA:390:ARG:HA	4:KA:393:HIS:CD2	2.49	0.47
4:KA:423:GLU:HA	4:KA:426:ALA:HB3	1.95	0.47
4:KE:10:GLY:O	4:KE:14:VAL:HG13	2.14	0.47
3:KF:130:LEU:HD13	3:KF:133:PHE:HE1	1.80	0.47
3:KH:130:LEU:HB2	3:KH:162:ARG:HH11	1.78	0.47
3:KH:289:LEU:O	3:KH:293:MET:HG2	2.14	0.47
4:KI:271:THR:O	4:KI:377:MET:N	2.26	0.47
4:KI:396:ASP:OD1	4:KI:397:LEU:N	2.47	0.47
4:KK:154:MET:HA	4:KK:157:LEU:HG	1.95	0.47
22:L1:221:VAL:HA	22:L1:224:LYS:HE2	1.96	0.47
22:L2:176:ILE:HD12	22:L2:179:ASN:HD22	1.79	0.47
3:LB:255:VAL:HG12	4:LC:407:TRP:CE3	2.49	0.47
4:LC:87:PHE:HB3	4:LC:92:LEU:HD21	1.95	0.47
4:LC:166:LYS:N	4:LC:199:ASP:OD2	2.47	0.47
3:LD:376:GLU:H	3:LD:376:GLU:CD	2.20	0.47
4:LE:54:SER:N	4:LE:62:VAL:O	2.46	0.47
4:LE:329:ASN:OD1	4:LE:330:ALA:N	2.48	0.47
3:LF:81:PHE:O	3:LF:84:ILE:HG22	2.14	0.47
3:LF:419:VAL:HG11	24:M2:85:GLU:HG2	1.95	0.47
3:LH:192:LEU:O	3:LH:196:THR:HG22	2.14	0.47
3:LH:218:THR:OG1	3:LH:219:THR:N	2.47	0.47
4:LI:234:ILE:HD11	4:LI:272:TYR:HB2	1.96	0.47
4:LK:161:TYR:CD1	28:O3:22:TRP:HB2	2.49	0.47
24:M3:41:HIS:HB2	24:M3:101:ASP:HA	1.96	0.47
24:M3:84:LEU:HB3	24:M3:85:GLU:CD	2.39	0.47
4:MC:133:GLN:HB3	4:MC:252:LEU:HD21	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MD:217:LEU:HD11	3:MD:220:PRO:HB3	1.96	0.47
3:MD:357:PRO:O	3:MD:359:ARG:NH1	2.44	0.47
4:ME:5:ILE:O	4:ME:136:LEU:N	2.44	0.47
4:ME:46:ASP:HA	4:ME:50:ASN:HB3	1.96	0.47
3:MJ:214:THR:HG23	3:MJ:215:LEU:HD12	1.95	0.47
3:ML:186:THR:HA	3:ML:189:VAL:HG12	1.95	0.47
3:ML:194:GLU:OE1	3:ML:195:ASN:ND2	2.47	0.47
3:ML:267:MET:O	3:ML:368:ILE:HD12	2.14	0.47
3:ML:271:ALA:HB3	3:ML:365:ALA:H	1.79	0.47
3:ML:285:THR:O	3:ML:288:GLU:HG3	2.14	0.47
3:ML:357:PRO:O	3:ML:359:ARG:NH1	2.44	0.47
4:MM:123:ARG:NE	26:N4:67:PRO:O	2.47	0.47
4:NC:274:PRO:HG3	4:NC:374:ALA:HA	1.95	0.47
3:NH:83:GLN:O	3:NH:86:ARG:NH2	2.48	0.47
3:NH:156:ARG:NH1	3:NH:195:ASN:O	2.47	0.47
4:NI:105:ARG:O	4:NI:109:THR:OG1	2.21	0.47
4:NK:88:HIS:CE1	4:NK:121:ARG:HH22	2.31	0.47
3:NL:130:LEU:HB2	3:NL:162:ARG:NH1	2.29	0.47
4:OA:102:ASN:HB3	4:OA:105:ARG:HB2	1.95	0.47
4:OA:104:ALA:HA	4:OA:107:HIS:HB3	1.96	0.47
3:OB:247:ASN:ND2	39:OC:501:GTP:O1A	2.47	0.47
3:OB:282:ARG:HE	3:OB:288:GLU:CD	2.22	0.47
4:OE:331:ALA:O	4:OE:334:THR:OG1	2.27	0.47
4:OG:116:ASP:N	4:OG:116:ASP:OD1	2.46	0.47
4:OI:75:VAL:HG22	4:OI:79:ARG:HH21	1.79	0.47
4:OI:196:GLU:HG2	4:OI:197:HIS:ND1	2.29	0.47
4:OI:295:CYS:HB2	4:OI:377:MET:HE3	1.96	0.47
3:OJ:118:ASP:OD1	3:OJ:121:ARG:NH1	2.47	0.47
3:OJ:324:LYS:HD2	4:OK:221:ARG:HA	1.96	0.47
4:OK:296:PHE:HE1	4:OK:377:MET:HE2	1.79	0.47
3:OL:6:HIS:HB3	3:OL:21:TRP:HZ2	1.79	0.47
27:P:339:ASP:HA	27:P:342:ASN:ND2	2.27	0.47
29:P2:392:ALA:HB2	29:P2:423:ILE:HB	1.96	0.47
4:PA:263:PRO:C	4:PA:264:ARG:HD3	2.39	0.47
3:PF:83:GLN:O	3:PF:86:ARG:NH2	2.47	0.47
3:PF:211:CYS:HA	3:PF:215:LEU:HB2	1.95	0.47
3:PF:299:MET:SD	3:PF:301:ALA:N	2.88	0.47
3:PH:1:MET:HE3	3:PH:48:ASN:HB2	1.97	0.47
3:PH:2:ARG:HA	3:PH:129:CYS:O	2.14	0.47
3:PH:235:GLY:O	3:PH:238:THR:OG1	2.25	0.47
4:PI:265:ILE:HD12	4:PI:432:TYR:CE1	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PJ:7:LEU:HB2	3:PJ:135:LEU:HG	1.96	0.47
3:PJ:305:PRO:HB2	3:PJ:310:TYR:HE1	1.78	0.47
3:PL:114:ASP:OD1	3:PL:115:SER:N	2.47	0.47
3:PL:141:GLY:HA3	39:PL:501:GTP:H5"	1.96	0.47
30:Q3:1506:SER:HB2	30:Q3:1509:ASP:HB2	1.96	0.47
3:QB:144:GLY:N	39:QB:501:GTP:O2B	2.47	0.47
4:QC:182:VAL:HA	4:QC:185:TYR:HD2	1.79	0.47
4:QC:201:ALA:HB3	4:QC:267:PHE:HD1	1.78	0.47
4:QC:216:ASN:HD21	4:QC:275:VAL:HG23	1.79	0.47
4:QE:76:ASP:OD1	4:QE:79:ARG:NH1	2.47	0.47
4:QG:331:ALA:O	4:QG:334:THR:OG1	2.27	0.47
3:QH:130:LEU:HB2	3:QH:162:ARG:NH1	2.28	0.47
3:QL:28:HIS:O	3:QL:43:GLN:NE2	2.47	0.47
3:QL:345:ILE:HD12	3:QL:346:PRO:HD2	1.96	0.47
3:RB:12:CYS:HB3	39:RB:501:GTP:O4'	2.14	0.47
3:RB:289:LEU:O	3:RB:293:MET:HG2	2.14	0.47
3:RD:4:ILE:HB	3:RD:50:TYR:CE1	2.50	0.47
3:RD:273:LEU:H	3:RD:292:GLN:NE2	2.06	0.47
3:RF:324:LYS:HD3	4:RG:210:TYR:CE1	2.49	0.47
4:RG:235:VAL:HA	4:RG:238:ILE:HG12	1.96	0.47
4:RG:324:VAL:HG21	3:RH:219:THR:HG22	1.97	0.47
4:RG:390:ARG:HA	4:RG:393:HIS:CD2	2.49	0.47
4:RI:202:PHE:CD1	4:RI:268:PRO:HD2	2.49	0.47
4:RI:315:CYS:O	4:RI:351:PHE:HA	2.14	0.47
3:RJ:139:LEU:HD21	3:RJ:170:VAL:HA	1.96	0.47
3:RL:318:ARG:HA	3:RL:354:CYS:HB3	1.96	0.47
3:RL:375:GLN:HA	3:RL:378:PHE:CZ	2.49	0.47
4:RM:7:ILE:HB	4:RM:137:ILE:HA	1.95	0.47
4:RM:88:HIS:HB3	4:RM:91:GLN:CG	2.44	0.47
3:SB:2:ARG:HA	3:SB:129:CYS:O	2.14	0.47
4:SC:287:SER:N	4:SC:290:GLU:OE2	2.47	0.47
3:SD:47:ILE:HG21	3:SD:59:TYR:CE2	2.49	0.47
4:SE:188:ILE:HG22	4:SE:421:ALA:HB1	1.97	0.47
3:SF:152:ILE:O	3:SF:156:ARG:HG2	2.14	0.47
3:SF:324:LYS:HE2	4:SG:222:PRO:HD2	1.95	0.47
3:SH:32:PRO:O	3:SH:83:GLN:NE2	2.44	0.47
3:SH:58:LYS:HE2	3:TH:281:TYR:HE1	1.80	0.47
4:SI:72:PRO:HA	4:SI:75:VAL:HG12	1.96	0.47
4:SK:165:SER:C	4:SK:166:LYS:HD2	2.39	0.47
4:SK:239:THR:OG1	4:SK:243:ARG:NH1	2.47	0.47
4:SK:260:VAL:O	3:SL:397:TRP:HH2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TB:2:ARG:HH12	4:TC:96:LYS:HB3	1.79	0.47
3:TB:81:PHE:O	3:TB:84:ILE:HG22	2.14	0.47
4:TC:36:MET:HG3	4:TC:41:THR:OG1	2.14	0.47
4:TC:360:PRO:HB2	4:TC:371:VAL:HB	1.96	0.47
4:TC:438:ASP:HA	3:TD:391:ARG:HH12	1.78	0.47
3:TD:295:ASP:HB2	3:TD:298:ASN:HB2	1.96	0.47
3:TH:65:LEU:HD21	3:TH:73:MET:HG2	1.96	0.47
4:TK:318:LEU:O	4:TK:375:VAL:HA	2.15	0.47
4:TM:99:ALA:HB3	4:TM:144:GLY:O	2.14	0.47
4:UA:203:MET:N	4:UA:203:MET:SD	2.87	0.47
4:UA:419:SER:HA	4:UA:422:ARG:HE	1.78	0.47
3:UB:194:GLU:OE1	3:UB:195:ASN:ND2	2.47	0.47
3:UD:324:LYS:HD2	4:UE:221:ARG:HA	1.96	0.47
4:UE:145:THR:OG1	39:UE:501:GTP:O1B	2.29	0.47
4:UE:175:PRO:HA	4:UE:390:ARG:CZ	2.44	0.47
4:UG:163:LYS:HA	4:UG:163:LYS:HD3	1.70	0.47
3:UH:6:HIS:HB3	3:UH:21:TRP:HZ2	1.78	0.47
3:UJ:141:GLY:HA3	39:UJ:501:GTP:H5"	1.96	0.47
3:UJ:318:ARG:HD3	3:UJ:358:PRO:HG3	1.95	0.47
3:VB:152:ILE:O	3:VB:156:ARG:HG2	2.14	0.47
3:VB:258:VAL:O	4:VC:407:TRP:NE1	2.41	0.47
3:VD:211:CYS:HA	3:VD:215:LEU:HB2	1.96	0.47
4:VE:74:VAL:O	4:VE:77:GLU:HG2	2.14	0.47
4:VE:113:GLU:N	4:VE:113:GLU:OE1	2.47	0.47
4:VE:115:VAL:HG23	4:VE:153:LEU:HD13	1.95	0.47
3:VF:113:VAL:HA	3:VF:116:VAL:HG22	1.96	0.47
4:VG:141:PHE:HB2	4:VG:173:PRO:HD3	1.96	0.47
4:VG:220:GLU:O	4:VG:221:ARG:NE	2.45	0.47
3:VH:39:ASP:N	3:VH:39:ASP:OD1	2.46	0.47
4:VI:12:ALA:HB1	39:VI:501:GTP:N3	2.28	0.47
4:VI:46:ASP:HA	4:VI:50:ASN:HB3	1.95	0.47
4:VI:102:ASN:HB3	4:VI:105:ARG:HB2	1.96	0.47
4:VI:420:GLU:HA	4:VI:423:GLU:OE2	2.14	0.47
3:VJ:289:LEU:O	3:VJ:293:MET:HG2	2.13	0.47
33:W:127:ARG:O	33:W:131:LEU:HG	2.14	0.47
4:WA:83:TYR:HB3	4:WA:86:LEU:HD12	1.95	0.47
3:WB:384:GLN:O	3:WB:388:MET:HG2	2.14	0.47
4:WE:72:PRO:HA	4:WE:75:VAL:HG12	1.96	0.47
3:WF:12:CYS:SG	3:WF:13:GLY:N	2.86	0.47
4:WG:287:SER:N	4:WG:290:GLU:OE2	2.46	0.47
4:WG:319:TYR:HB2	4:WG:355:ILE:HD13	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:WL:318:ARG:HD3	3:WL:358:PRO:HG3	1.97	0.47
34:XB:71:ILE:HG21	34:XB:167:PHE:CD2	2.46	0.47
34:XG:20:LYS:NZ	34:XG:22:LEU:HB3	2.29	0.47
34:XG:27:LYS:HD3	34:XG:59:ILE:HD13	1.95	0.47
35:XL:203:GLU:OE1	35:XL:203:GLU:N	2.47	0.47
35:XM:207:ASP:HA	35:XM:210:GLN:HE21	1.79	0.47
37:YB:140:LEU:HD12	37:YB:141:ILE:HG13	1.97	0.47
37:YE:33:ARG:NH2	37:YE:39:LYS:O	2.44	0.47
37:YF:154:HIS:HD2	37:YF:157:LYS:HE2	1.79	0.47
37:YH:161:LYS:HG3	37:YH:162:VAL:HG23	1.96	0.47
37:YI:7:SER:OG	37:YI:79:LEU:HD21	2.14	0.47
37:YO:4:VAL:HG13	37:YO:79:LEU:HG	1.96	0.47
1:A:128:LEU:HA	1:A:131:ALA:HB3	1.95	0.47
2:A1:295:ASN:ND2	2:A2:38:VAL:HA	2.29	0.47
2:A3:15:GLU:O	2:A3:18:ILE:HG22	2.15	0.47
3:AB:155:ILE:HA	3:AB:158:GLU:HB2	1.95	0.47
4:AC:70:LEU:HB3	4:AC:97:GLU:O	2.15	0.47
4:AC:115:VAL:HA	4:AC:118:VAL:HG22	1.96	0.47
4:AC:212:ILE:HG13	4:AC:215:ARG:NH2	2.30	0.47
3:AD:25:SER:O	3:AD:29:GLY:N	2.47	0.47
3:AD:41:ASP:N	3:AD:41:ASP:OD1	2.47	0.47
3:AD:141:GLY:HA3	39:AD:501:GTP:H5”	1.97	0.47
4:AE:160:ASP:OD1	4:AE:161:TYR:N	2.47	0.47
4:AG:115:VAL:HA	4:AG:118:VAL:HG22	1.96	0.47
4:AI:139:HIS:CD2	4:AI:170:ALA:HB2	2.49	0.47
3:AJ:246:LEU:HD22	3:AJ:354:CYS:HA	1.96	0.47
4:AK:89:PRO:HB2	4:AK:90:GLU:OE1	2.15	0.47
4:AM:116:ASP:N	4:AM:116:ASP:OD1	2.46	0.47
4:AM:119:LEU:HD23	4:AM:122:ILE:HD12	1.97	0.47
5:B1:379:CYS:O	5:B1:383:THR:HG23	2.15	0.47
5:B2:10:GLU:C	5:B2:11:ARG:HD2	2.40	0.47
5:B2:55:TRP:N	5:B2:55:TRP:CD1	2.82	0.47
5:B2:140:GLU:O	5:B2:144:ILE:HG13	2.15	0.47
5:B4:260:ALA:O	5:B4:264:THR:HG23	2.15	0.47
5:B6:270:ARG:HG3	5:B6:271:GLU:N	2.28	0.47
5:B7:258:ARG:O	5:B7:262:GLU:HG2	2.14	0.47
3:BB:295:ASP:HB2	3:BB:298:ASN:HB2	1.96	0.47
3:BF:284:LEU:HG	3:BF:289:LEU:HD11	1.97	0.47
4:BI:272:TYR:CE1	4:BI:374:ALA:HB1	2.49	0.47
3:BJ:13:GLY:C	3:BJ:15:GLN:H	2.21	0.47
4:BK:88:HIS:HB3	4:BK:91:GLN:CG	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BL:118:ASP:HA	3:BL:121:ARG:HG2	1.95	0.47
7:C1:288:GLU:C	7:C1:289:ARG:HD2	2.39	0.47
7:C1:296:VAL:HG23	7:C2:413:ARG:CZ	2.44	0.47
7:C2:361:ILE:HG13	7:C2:462:LYS:NZ	2.29	0.47
7:C8:264:ALA:HB2	7:C9:410:GLU:HG3	1.97	0.47
7:C9:202:ARG:NH1	7:C9:205:ARG:HH21	2.12	0.47
7:C9:219:LEU:HD21	7:C9:343:VAL:HG11	1.95	0.47
3:CB:111:GLU:OE1	3:CB:111:GLU:N	2.43	0.47
3:CB:252:LYS:O	3:CB:256:ASN:ND2	2.47	0.47
4:CC:163:LYS:HA	4:CC:163:LYS:HD3	1.75	0.47
4:CC:280:LYS:O	4:CC:284:GLU:HB2	2.14	0.47
3:CD:28:HIS:ND1	3:CD:43:GLN:HB2	2.30	0.47
4:CG:316:CYS:N	4:CG:378:LEU:O	2.36	0.47
3:CH:176:SER:O	3:CH:178:THR:N	2.47	0.47
3:CJ:106:TYR:HB2	3:CJ:401:GLU:OE2	2.13	0.47
4:CK:113:GLU:N	4:CK:113:GLU:OE1	2.47	0.47
4:CM:116:ASP:N	4:CM:116:ASP:OD1	2.44	0.47
4:CM:274:PRO:HG3	4:CM:374:ALA:HA	1.97	0.47
7:Cb:230:GLN:HB3	7:Cb:234:ARG:HH21	1.79	0.47
6:D:354:HIS:CE1	6:D:355:LEU:HG	2.50	0.47
8:D2:113:TRP:HA	8:D2:116:GLU:OE2	2.15	0.47
8:D3:72:ASP:HA	8:D3:75:GLU:HG3	1.95	0.47
8:D7:174:VAL:HA	8:D7:177:LEU:HD12	1.97	0.47
8:D8:67:ALA:O	8:D8:71:ARG:HG2	2.15	0.47
8:D9:127:GLU:HG2	8:D9:272:ARG:HG3	1.96	0.47
4:DA:81:GLY:O	4:DA:84:ARG:NH1	2.48	0.47
4:DC:287:SER:N	4:DC:290:GLU:OE2	2.38	0.47
4:DE:216:ASN:ND2	4:DE:275:VAL:O	2.47	0.47
4:DI:3:GLU:OE2	4:DI:130:THR:N	2.39	0.47
3:DJ:3:GLU:OE2	3:DJ:127:CYS:HB2	2.14	0.47
4:DK:201:ALA:HB1	4:DK:203:MET:HE3	1.95	0.47
10:E2:152:THR:C	10:E2:154:ASN:N	2.72	0.47
3:EB:51:TYR:HD2	3:EB:59:TYR:HB3	1.80	0.47
4:EE:6:SER:HA	4:EE:136:LEU:HB2	1.96	0.47
3:EH:114:ASP:N	3:EH:114:ASP:OD1	2.43	0.47
3:EH:234:SER:O	3:EH:238:THR:HG23	2.15	0.47
3:EH:378:PHE:CD1	3:EH:419:VAL:HG22	2.49	0.47
4:EI:139:HIS:CE1	4:EI:168:GLU:HB3	2.50	0.47
4:EI:192:HIS:CE1	4:EI:193:THR:HG23	2.50	0.47
4:EI:414:GLU:HG2	4:EI:417:GLU:OE1	2.15	0.47
3:EJ:141:GLY:HA3	39:EJ:501:GTP:H5"	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EJ:257:MET:HG3	3:EJ:370:ASN:ND2	2.29	0.47
3:EL:87:PRO:HA	3:EL:90:PHE:CD2	2.49	0.47
3:EL:345:ILE:HD12	3:EL:346:PRO:HD2	1.96	0.47
9:F:360:GLN:OE1	3:IL:359:ARG:HG2	2.14	0.47
11:F2:184:VAL:O	11:F2:187:PRO:HD2	2.15	0.47
11:F2:370:GLN:O	11:F2:370:GLN:NE2	2.46	0.47
11:F2:408:CYS:HA	11:F3:296:TRP:HH2	1.79	0.47
11:F3:453:HIS:HB2	11:F8:401:ARG:HH11	1.80	0.47
11:F6:129:GLN:HA	11:F6:132:HIS:NE2	2.29	0.47
11:F6:301:ASN:O	11:F6:305:ARG:NE	2.41	0.47
11:F6:327:THR:O	11:F6:331:GLN:HG2	2.14	0.47
11:F6:404:ASN:O	11:F6:406:GLU:N	2.47	0.47
3:FB:47:ILE:HG12	3:FB:59:TYR:CD2	2.49	0.47
4:FC:397:LEU:O	4:FC:401:LYS:HE2	2.14	0.47
3:FD:141:GLY:HA3	39:FD:501:GTP:H5"	1.97	0.47
3:FF:20:PHE:CZ	3:FF:24:ILE:HD11	2.50	0.47
4:FG:6:SER:HA	4:FG:136:LEU:HB2	1.96	0.47
4:FG:224:TYR:HB3	4:FG:228:ASN:ND2	2.29	0.47
4:FG:255:PHE:HA	4:FG:259:LEU:HD23	1.95	0.47
4:FG:388:TRP:HB3	4:FG:425:LEU:HD11	1.97	0.47
3:FH:17:GLY:HA2	3:FH:20:PHE:HB3	1.95	0.47
3:FJ:204:ASN:OD1	3:FJ:205:GLU:N	2.47	0.47
3:FL:379:LYS:O	3:FL:382:SER:OG	2.20	0.47
11:Fb:453:HIS:NE2	11:Fb:454:GLU:OE2	2.48	0.47
11:Fi:174:LYS:HB3	11:Fi:236:ILE:HG21	1.97	0.47
11:Fj:217:ARG:O	11:Fj:221:LEU:HG	2.15	0.47
11:Fl:141:ASN:C	11:Fl:143:GLY:H	2.22	0.47
11:Fl:346:ARG:HA	11:Fl:349:GLU:CD	2.39	0.47
11:Fm:211:VAL:HG22	11:Fm:339:THR:HG23	1.94	0.47
13:G2:91:ALA:O	13:G2:95:LYS:NZ	2.44	0.47
14:G4:41:PRO:HB2	14:G4:45:GLY:HA2	1.96	0.47
14:G5:308:GLY:HA2	14:G5:313:TRP:CZ2	2.50	0.47
14:G5:635:PHE:O	14:G5:639:ILE:N	2.43	0.47
14:G6:493:VAL:HG13	14:G6:494:PHE:CD1	2.46	0.47
14:G6:511:ALA:H	14:G6:522:LEU:HB3	1.79	0.47
4:GA:202:PHE:CD1	4:GA:268:PRO:HD2	2.49	0.47
4:GA:287:SER:OG	4:GA:290:GLU:OE1	2.24	0.47
4:GA:287:SER:N	4:GA:290:GLU:OE2	2.47	0.47
4:GC:318:LEU:O	4:GC:375:VAL:HA	2.14	0.47
3:GD:147:MET:HB3	3:GD:151:LEU:HD23	1.97	0.47
4:GE:301:GLN:OE1	4:GE:301:GLN:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GF:5:VAL:HB	3:GF:133:PHE:HD1	1.80	0.47
4:GG:10:GLY:O	4:GG:14:VAL:HG13	2.14	0.47
4:GG:116:ASP:N	4:GG:116:ASP:OD1	2.45	0.47
4:GG:287:SER:N	4:GG:290:GLU:OE2	2.47	0.47
4:GI:105:ARG:O	4:GI:109:THR:OG1	2.27	0.47
4:GI:121:ARG:HA	4:GI:124:LYS:NZ	2.30	0.47
4:GI:311:LYS:HE3	4:GI:344:VAL:HA	1.96	0.47
3:GJ:150:LEU:O	3:GJ:153:SER:OG	2.26	0.47
15:H1:24:TYR:O	15:H1:27:LEU:HD23	2.14	0.47
15:H2:311:GLU:O	15:H2:316:SER:HA	2.15	0.47
15:H4:292:MET:HG3	15:H4:293:GLN:CD	2.39	0.47
4:HA:154:MET:HA	4:HA:157:LEU:HG	1.95	0.47
3:HB:255:VAL:HG12	4:HC:407:TRP:CE2	2.49	0.47
3:HB:313:VAL:HG23	3:HB:349:VAL:HA	1.96	0.47
3:HD:189:VAL:HA	3:HD:192:LEU:HB3	1.96	0.47
3:HD:263:LEU:HD12	3:HD:370:ASN:HD21	1.79	0.47
3:HF:12:CYS:O	3:HF:16:ILE:HG12	2.14	0.47
3:HF:52:ASN:OD1	3:HF:62:ARG:NH1	2.47	0.47
3:HH:6:HIS:HE1	3:HH:8:GLN:HB3	1.78	0.47
4:HI:83:TYR:HB3	4:HI:86:LEU:HD12	1.95	0.47
4:HI:324:VAL:HG21	3:HJ:219:THR:HG22	1.96	0.47
3:HL:313:VAL:HG23	3:HL:349:VAL:HA	1.97	0.47
4:IC:1:MET:N	4:IC:130:THR:OG1	2.48	0.47
3:ID:5:VAL:HB	3:ID:133:PHE:CE1	2.48	0.47
4:IE:118:VAL:HG21	4:IE:153:LEU:HD11	1.96	0.47
3:IF:223:GLY:O	3:IF:227:HIS:N	2.42	0.47
4:II:213:CYS:O	4:II:218:ASP:N	2.48	0.47
3:IJ:240:LEU:HD22	3:IJ:248:ALA:HB1	1.96	0.47
3:IL:197:ASP:OD1	3:IL:198:GLU:N	2.47	0.47
19:J3:54:SER:HB2	19:J3:57:VAL:HB	1.97	0.47
4:JA:288:VAL:O	4:JA:292:THR:OG1	2.24	0.47
4:JC:176:GLN:NE2	4:JC:207:GLU:OE2	2.47	0.47
4:JC:319:TYR:HB2	4:JC:355:ILE:HD13	1.95	0.47
4:JE:81:GLY:O	4:JE:84:ARG:NH1	2.48	0.47
4:JE:113:GLU:OE1	4:JE:113:GLU:N	2.47	0.47
4:JE:161:TYR:O	4:JE:166:LYS:NZ	2.43	0.47
4:JE:263:PRO:HB2	4:JE:264:ARG:NH1	2.29	0.47
4:JG:154:MET:HE1	4:JG:197:HIS:HB2	1.96	0.47
4:JI:113:GLU:OE1	4:JI:113:GLU:N	2.44	0.47
3:JJ:299:MET:SD	3:JJ:301:ALA:N	2.88	0.47
20:K:239:LEU:HD23	20:K:248:GLU:HA	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:K1:382:LEU:O	4:LA:339:ARG:NH2	2.47	0.47
21:K2:461:VAL:HG23	21:K2:464:ARG:NH2	2.30	0.47
21:K2:477:ALA:O	21:K2:481:VAL:HG23	2.14	0.47
21:K4:261:ARG:HD3	21:K4:264:TRP:HA	1.96	0.47
21:K4:325:GLN:NE2	21:K4:326:GLN:HB3	2.29	0.47
4:KA:285:GLN:NE2	4:KA:286:LEU:O	2.48	0.47
3:KB:197:ASP:OD1	3:KB:198:GLU:N	2.47	0.47
39:KF:501:GTP:O3G	39:KF:501:GTP:O3'	2.21	0.47
4:KG:252:LEU:HA	4:KG:255:PHE:CD2	2.50	0.47
3:KH:111:GLU:OE1	3:KH:111:GLU:N	2.44	0.47
4:KI:390:ARG:HA	4:KI:393:HIS:CD2	2.50	0.47
4:KK:45:GLY:HA2	4:KK:49:PHE:HE1	1.79	0.47
20:L:147:GLY:O	20:L:197:GLN:NE2	2.47	0.47
22:L2:86:PRO:C	4:LE:264:ARG:HH12	2.17	0.47
22:L4:65:LYS:C	3:LL:414:ASN:HD21	2.22	0.47
3:LB:211:CYS:HA	3:LB:215:LEU:HD13	1.96	0.47
3:LB:420:SER:HA	24:M1:84:LEU:HD13	1.97	0.47
4:LC:234:ILE:HD11	4:LC:272:TYR:HB2	1.97	0.47
3:LD:31:ASP:OD1	3:LD:35:THR:N	2.47	0.47
4:LE:46:ASP:HA	4:LE:50:ASN:HB3	1.96	0.47
4:LE:282:TYR:CE1	27:Q:42:GLN:HG2	2.49	0.47
3:LF:73:MET:HA	3:LF:76:VAL:HG22	1.95	0.47
4:LG:5:ILE:HB	4:LG:135:PHE:HD1	1.80	0.47
4:LG:145:THR:OG1	39:LG:501:GTP:O1B	2.31	0.47
3:LH:309:ARG:N	3:LH:372:THR:OG1	2.31	0.47
3:LJ:31:ASP:HB3	3:LJ:37:HIS:NE2	2.29	0.47
3:LL:111:GLU:OE1	3:LL:111:GLU:N	2.44	0.47
3:LL:214:THR:HG21	3:LL:273:LEU:HB3	1.95	0.47
3:MD:114:ASP:N	3:MD:114:ASP:OD1	2.47	0.47
3:MD:257:MET:HE3	3:MD:370:ASN:HB2	1.96	0.47
4:ME:154:MET:HA	4:ME:157:LEU:HG	1.95	0.47
4:MI:319:TYR:HB2	4:MI:355:ILE:HD13	1.95	0.47
4:MK:9:VAL:HG11	4:MK:150:ALA:HB2	1.96	0.47
3:ML:262:ARG:HD2	3:ML:421:GLU:HG3	1.95	0.47
4:NA:211:ASP:C	4:NA:215:ARG:HE	2.22	0.47
3:NB:12:CYS:SG	39:NB:501:GTP:H5'	2.54	0.47
3:NB:166:THR:OG1	3:NB:198:GLU:O	2.31	0.47
3:NB:174:LYS:HG3	3:NB:175:VAL:HG12	1.95	0.47
4:NE:122:ILE:O	4:NE:126:ALA:N	2.45	0.47
3:NF:148:GLY:O	3:NF:152:ILE:HG12	2.14	0.47
3:NH:12:CYS:O	3:NH:16:ILE:HG12	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NL:11:GLN:O	3:NL:14:ASN:HB2	2.14	0.47
3:NL:292:GLN:O	3:NL:298:ASN:ND2	2.45	0.47
4:OC:101:ASN:HA	4:OC:144:GLY:HA2	1.95	0.47
4:OC:172:TYR:HB2	4:OC:203:MET:HB2	1.95	0.47
3:OD:12:CYS:SG	39:OD:501:GTP:H5'	2.54	0.47
4:OE:180:ALA:HB3	4:OE:183:GLU:HB2	1.95	0.47
4:OG:22:GLU:O	4:OG:26:LEU:HD23	2.15	0.47
3:OH:52:ASN:ND2	3:OH:62:ARG:HD3	2.29	0.47
3:OH:58:LYS:HE2	3:PH:281:TYR:HE1	1.79	0.47
4:OI:208:ALA:N	4:OI:304:LYS:HZ1	2.12	0.47
4:OI:216:ASN:ND2	4:OI:275:VAL:O	2.47	0.47
3:OL:378:PHE:CE1	3:OL:419:VAL:HA	2.49	0.47
29:P1:430:LYS:HE2	29:P1:445:GLN:HE22	1.80	0.47
29:P2:407:ARG:NH1	29:P2:409:MET:HG2	2.30	0.47
29:P2:528:TYR:CD2	29:P2:538:ARG:HB3	2.49	0.47
3:PB:3:GLU:OE2	3:PB:129:CYS:N	2.47	0.47
3:PB:58:LYS:HE2	3:QB:281:TYR:CE1	2.49	0.47
3:PD:40:SER:HB3	3:PD:42:LEU:HD23	1.97	0.47
3:PD:199:THR:N	3:PD:264:HIS:O	2.47	0.47
3:PF:41:ASP:OD1	3:PF:41:ASP:N	2.47	0.47
3:PF:246:LEU:HB2	3:PF:352:ALA:HB1	1.97	0.47
4:PG:113:GLU:OE1	4:PG:113:GLU:N	2.48	0.47
4:PG:260:VAL:HG23	4:PG:265:ILE:O	2.14	0.47
3:PH:7:LEU:HB2	3:PH:135:LEU:HG	1.95	0.47
30:Q2:1433:THR:O	30:Q2:1437:TYR:N	2.45	0.47
3:QB:36:TYR:O	37:YB:64:ARG:NH1	2.46	0.47
4:QC:22:GLU:O	4:QC:26:LEU:HD23	2.15	0.47
4:QC:35:GLN:HG2	4:QC:59:GLY:O	2.15	0.47
3:QF:199:THR:N	3:QF:264:HIS:O	2.47	0.47
4:QG:60:LYS:NZ	4:QG:85:GLN:O	2.36	0.47
4:QG:161:TYR:O	4:QG:166:LYS:NZ	2.46	0.47
4:QG:280:LYS:HZ1	4:QG:284:GLU:CD	2.23	0.47
3:QH:12:CYS:SG	3:QH:13:GLY:N	2.87	0.47
4:QI:260:VAL:HG23	4:QI:265:ILE:O	2.14	0.47
3:QJ:42:LEU:HD11	3:QJ:356:ILE:HG21	1.95	0.47
3:RB:60:VAL:HG11	3:SB:281:TYR:HE1	1.80	0.47
3:RB:197:ASP:OD1	3:RB:198:GLU:N	2.47	0.47
3:RB:309:ARG:N	3:RB:372:THR:HG1	2.11	0.47
4:RG:3:GLU:OE2	4:RG:130:THR:N	2.36	0.47
3:RH:150:LEU:HB3	3:RH:154:LYS:NZ	2.28	0.47
4:RK:224:TYR:HE2	39:RK:501:GTP:C5	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RL:206:ALA:O	3:RL:210:ILE:HG12	2.14	0.47
3:RL:251:ARG:HH12	4:RM:105:ARG:NE	2.12	0.47
3:RL:312:THR:HA	3:RL:348:ASN:HB2	1.97	0.47
4:RM:11:GLN:HG3	39:RM:501:GTP:O1B	2.14	0.47
3:SB:105:HIS:ND1	3:SB:149:THR:OG1	2.44	0.47
3:SB:155:ILE:HA	3:SB:158:GLU:HB2	1.95	0.47
3:SB:234:SER:O	3:SB:238:THR:HG23	2.14	0.47
4:SE:140:SER:HB2	4:SE:171:ILE:HG22	1.96	0.47
3:SF:250:LEU:HD12	3:SF:253:LEU:HB2	1.95	0.47
4:SG:117:LEU:O	4:SG:121:ARG:HG2	2.14	0.47
4:SI:254:GLU:OE1	4:SI:254:GLU:N	2.44	0.47
4:SI:362:VAL:HA	4:SI:368:LEU:HD11	1.96	0.47
4:SM:175:PRO:HA	4:SM:390:ARG:CZ	2.44	0.47
4:TC:113:GLU:N	4:TC:113:GLU:OE1	2.47	0.47
3:TD:234:SER:O	3:TD:238:THR:HG23	2.13	0.47
4:TE:245:ASP:OD1	4:TE:249:ASN:ND2	2.42	0.47
4:TG:397:LEU:O	4:TG:401:LYS:HG2	2.15	0.47
4:TI:36:MET:HE3	4:TI:37:PRO:HD3	1.96	0.47
4:TI:47:ASP:HB3	4:TI:49:PHE:CE2	2.50	0.47
3:TL:28:HIS:O	3:TL:43:GLN:NE2	2.47	0.47
3:TL:36:TYR:HE2	3:TL:44:LEU:HD13	1.79	0.47
3:TL:406:MET:O	3:TL:409:THR:OG1	2.24	0.47
4:TM:352:LYS:NZ	3:TN:178:THR:HA	2.30	0.47
3:TN:152:ILE:O	3:TN:156:ARG:HG2	2.14	0.47
33:U:265:ILE:O	33:U:269:GLU:HG2	2.15	0.47
33:U:456:GLN:HA	33:U:459:ARG:HG2	1.95	0.47
3:UB:189:VAL:HA	3:UB:192:LEU:HB2	1.97	0.47
4:UC:68:VAL:HG12	4:UC:93:ILE:HB	1.95	0.47
4:UE:163:LYS:HA	4:UE:163:LYS:HD3	1.79	0.47
3:UF:224:ASP:O	3:UF:228:LEU:HG	2.15	0.47
4:UG:260:VAL:O	3:UH:397:TRP:HH2	1.98	0.47
3:UH:2:ARG:HB3	3:UH:131:GLN:NE2	2.28	0.47
3:UH:289:LEU:O	3:UH:293:MET:HG2	2.13	0.47
3:VD:139:LEU:N	3:VD:168:SER:OG	2.47	0.47
3:VH:41:ASP:OD1	3:VH:41:ASP:N	2.45	0.47
3:VL:175:VAL:HG22	3:VL:177:ASP:H	1.79	0.47
3:WB:131:GLN:HB3	3:WB:163:ILE:HD12	1.97	0.47
3:WD:52:ASN:ND2	3:WD:62:ARG:HD3	2.29	0.47
4:WG:24:TYR:O	4:WG:28:HIS:ND1	2.29	0.47
3:WJ:114:ASP:OD1	3:WJ:115:SER:N	2.47	0.47
3:WL:77:ARG:HD3	3:WL:90:PHE:CE2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:XB:124:ARG:HD3	34:XB:124:ARG:H	1.79	0.47
34:XE:34:ILE:O	34:XE:34:ILE:HG13	2.14	0.47
34:XE:90:GLU:OE2	34:XE:155:GLN:NE2	2.47	0.47
35:XL:137:ILE:O	35:XL:141:LEU:HG	2.14	0.47
35:XM:168:GLU:O	35:XM:171:LEU:HD12	2.15	0.47
37:YA:15:TYR:OH	37:YA:141:ILE:HG21	2.14	0.47
37:YB:32:CYS:HA	37:YB:56:TYR:CE1	2.50	0.47
37:YC:8:LEU:HD21	37:YC:145:LEU:HG	1.97	0.47
37:YG:140:LEU:O	37:YG:144:VAL:HG23	2.14	0.47
37:YM:26:ILE:HA	37:YM:29:LEU:HD12	1.96	0.47
37:YP:41:ARG:NH1	37:YP:48:GLN:OE1	2.47	0.47
37:YQ:137:VAL:HG13	37:YQ:138:VAL:HG13	1.97	0.47
37:YS:141:ILE:HB	37:YS:142:PRO:HD3	1.97	0.47
37:YU:97:LEU:HG	37:YU:101:LYS:HE2	1.97	0.47
37:YV:114:ARG:NH2	37:YV:133:HIS:O	2.47	0.47
37:YW:96:LEU:HD11	37:YW:147:PHE:O	2.14	0.47
2:A1:394:ARG:O	2:A1:397:ILE:HG12	2.14	0.47
2:A2:142:ILE:O	2:A2:146:VAL:HG13	2.15	0.47
2:A2:235:SER:O	2:A2:239:LYS:HG3	2.13	0.47
2:A3:162:ARG:HH12	13:G2:199:ILE:N	2.13	0.47
4:AC:50:ASN:OD1	4:AC:51:THR:N	2.47	0.47
4:AC:141:PHE:HB2	4:AC:173:PRO:HD3	1.96	0.47
3:AD:311:LEU:HD11	3:AD:372:THR:HG23	1.96	0.47
3:AF:11:GLN:HG3	39:AF:501:GTP:PA	2.54	0.47
4:AG:263:PRO:HB2	4:AG:264:ARG:NH1	2.30	0.47
4:AG:402:ARG:HE	35:XJ:233:PRO:HG2	1.78	0.47
3:AH:155:ILE:HA	3:AH:158:GLU:HB2	1.97	0.47
4:AI:125:LEU:HD13	4:AI:128:LEU:HD21	1.97	0.47
4:AI:430:LYS:HE2	34:XE:102:ARG:CZ	2.45	0.47
3:AJ:271:ALA:HB3	3:AJ:365:ALA:H	1.80	0.47
3:AJ:324:LYS:HE2	4:AK:222:PRO:CD	2.45	0.47
1:B:386:ASP:HA	1:B:389:ILE:HG12	1.95	0.47
5:B2:280:LYS:O	5:B2:283:GLU:HG3	2.15	0.47
5:B3:73:ARG:O	5:B3:77:THR:HG23	2.14	0.47
5:B3:355:LYS:HD3	5:B4:45:LEU:HD23	1.95	0.47
5:B5:46:ARG:NE	5:B6:299:ARG:HH21	2.12	0.47
5:B7:230:GLU:O	5:B7:233:MET:HG3	2.14	0.47
3:BB:378:PHE:HA	3:BB:381:ILE:HG22	1.97	0.47
4:BE:34:GLY:HA2	4:BE:86:LEU:HD11	1.97	0.47
4:BE:139:HIS:CE1	4:BE:168:GLU:HB3	2.50	0.47
4:BG:47:ASP:HB3	4:BG:49:PHE:CE2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BJ:175:VAL:HG22	3:BJ:177:ASP:H	1.80	0.47
4:BK:43:GLY:HA2	14:G6:216:PHE:O	2.14	0.47
4:BK:144:GLY:N	39:BK:501:GTP:O2B	2.46	0.47
3:BL:5:VAL:HG22	3:BL:62:ARG:HB3	1.97	0.47
4:BM:149:PHE:O	4:BM:152:LEU:HG	2.14	0.47
6:C:145:MET:HE3	6:C:146:THR:H	1.78	0.47
6:C:275:LYS:HA	6:C:278:ILE:HB	1.96	0.47
6:C:389:PHE:CD1	6:C:393:LEU:HD21	2.50	0.47
7:C3:347:PHE:HE2	7:C3:473:CYS:HB3	1.77	0.47
7:C5:392:PHE:O	7:C5:395:VAL:HG12	2.15	0.47
7:C5:400:LEU:O	7:C5:404:THR:HG23	2.15	0.47
7:C7:387:LYS:O	7:C7:390:SER:OG	2.28	0.47
7:C7:414:ASP:OD1	7:C7:415:MET:N	2.47	0.47
7:C9:155:PHE:O	7:C9:158:SER:OG	2.29	0.47
7:C9:340:PHE:CZ	7:C9:477:ARG:HG3	2.49	0.47
3:CB:3:GLU:OE2	3:CB:127:CYS:HB3	2.14	0.47
3:CD:269:GLY:N	3:CD:367:PHE:O	2.48	0.47
4:CE:285:GLN:NE2	4:CE:286:LEU:O	2.47	0.47
4:CE:336:LYS:NZ	3:CF:174:LYS:HB2	2.29	0.47
3:CF:83:GLN:O	3:CF:86:ARG:NH2	2.47	0.47
3:CF:328:GLU:OE1	3:CF:332:ASN:ND2	2.47	0.47
3:CF:360:GLY:HA2	13:G1:306:LYS:HD2	1.96	0.47
4:CG:426:ALA:O	4:CG:430:LYS:NZ	2.41	0.47
3:CH:77:ARG:O	3:CH:82:GLY:HA3	2.15	0.47
3:CJ:384:GLN:O	3:CJ:388:MET:HG2	2.15	0.47
4:CK:3:GLU:OE2	4:CK:130:THR:N	2.42	0.47
4:CK:156:ARG:HA	4:CK:159:VAL:HG22	1.96	0.47
4:CK:324:VAL:HG21	3:CL:219:THR:HG22	1.96	0.47
3:CL:28:HIS:ND1	3:CL:43:GLN:HB2	2.28	0.47
3:CL:313:VAL:HG23	3:CL:349:VAL:HA	1.96	0.47
7:Ca:227:LEU:O	7:Ca:230:GLN:HG3	2.15	0.47
7:Cb:309:LEU:HD23	7:Cb:312:GLN:HE22	1.77	0.47
7:Cc:208:ILE:HD12	7:Cd:94:TYR:CE2	2.49	0.47
6:D:28:PHE:HB3	6:D:94:LEU:HD13	1.96	0.47
8:D3:369:CYS:C	8:D3:370:ARG:HD2	2.39	0.47
8:D4:113:TRP:HA	8:D4:116:GLU:OE2	2.15	0.47
8:D5:405:LEU:O	8:D5:408:SER:OG	2.26	0.47
8:D8:388:LEU:HA	8:D8:391:LEU:HD12	1.96	0.47
4:DA:3:GLU:CD	4:DA:132:LEU:H	2.21	0.47
4:DA:405:VAL:O	4:DA:409:VAL:HG22	2.14	0.47
3:DB:321:MET:SD	3:DB:321:MET:N	2.88	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DD:246:LEU:HD22	3:DD:354:CYS:HA	1.95	0.47
3:DF:11:GLN:O	3:DF:14:ASN:HB2	2.14	0.47
4:DG:154:MET:HE3	4:DG:194:THR:HG22	1.96	0.47
4:DG:196:GLU:HG2	4:DG:197:HIS:ND1	2.30	0.47
3:DH:325:GLU:HA	3:DH:328:GLU:HG3	1.97	0.47
3:DJ:37:HIS:HA	15:H6:317:HIS:CE1	2.49	0.47
4:DK:22:GLU:HA	4:DK:83:TYR:HE2	1.80	0.47
3:DL:3:GLU:OE2	3:DL:127:CYS:HB2	2.15	0.47
10:E1:162:TRP:CD1	10:E1:163:ARG:HH22	2.32	0.47
10:E2:102:GLN:OE1	10:E2:114:ARG:NH2	2.39	0.47
4:EC:51:THR:HG23	4:EC:52:PHE:HD2	1.79	0.47
4:EC:273:ALA:HB2	4:EC:295:CYS:HB3	1.96	0.47
4:EE:5:ILE:O	4:EE:136:LEU:N	2.44	0.47
3:EF:141:GLY:HA3	39:EF:501:GTP:H5"	1.96	0.47
3:EF:172:SER:OG	3:EF:205:GLU:OE2	2.19	0.47
4:EG:165:SER:C	4:EG:166:LYS:HD2	2.40	0.47
3:EJ:77:ARG:HD3	3:EJ:90:PHE:HE2	1.79	0.47
4:EK:225:THR:O	4:EK:229:ARG:NE	2.34	0.47
11:F3:158:TYR:O	11:F3:162:ARG:NE	2.43	0.47
11:F3:284:GLU:OE2	11:F3:285:LYS:NZ	2.47	0.47
11:F3:396:LEU:O	11:F3:400:THR:HG23	2.14	0.47
11:F5:292:ILE:HG12	11:F6:409:ARG:HH21	1.78	0.47
11:F7:232:LEU:HD23	11:F7:235:ARG:NH2	2.27	0.47
11:F7:355:ASN:O	11:F7:359:THR:HG23	2.14	0.47
4:FC:301:GLN:OE1	4:FC:301:GLN:N	2.47	0.47
4:FC:329:ASN:OD1	4:FC:330:ALA:N	2.47	0.47
4:FG:68:VAL:HG12	4:FG:93:ILE:HB	1.97	0.47
3:FH:114:ASP:OD1	3:FH:115:SER:N	2.46	0.47
4:FI:54:SER:N	4:FI:62:VAL:O	2.47	0.47
4:FK:2:ARG:NH1	4:FK:241:SER:O	2.48	0.47
3:FL:2:ARG:HB2	3:FL:131:GLN:NE2	2.30	0.47
3:FL:234:SER:O	3:FL:238:THR:HG23	2.15	0.47
11:Fi:187:PRO:HA	11:Fi:190:VAL:HB	1.95	0.47
11:Fm:249:SER:HA	11:Fm:252:ARG:HE	1.79	0.47
12:G:234:LEU:HD22	4:GI:282:TYR:HD1	1.80	0.47
13:G2:141:SER:HA	13:G2:216:ARG:NH1	2.30	0.47
13:G3:212:TYR:HA	13:G3:215:LEU:HD12	1.96	0.47
14:G4:81:PHE:HE2	14:G4:106:PHE:HB2	1.79	0.47
14:G4:264:GLU:HG3	14:G4:266:LEU:H	1.78	0.47
14:G6:233:PHE:HD2	14:G6:355:ASP:HB3	1.79	0.47
14:G6:546:GLU:HA	14:G6:549:ILE:HD12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G6:743:TYR:O	14:G6:745:LEU:N	2.44	0.47
3:GB:11:GLN:O	3:GB:14:ASN:HB2	2.15	0.47
4:GE:46:ASP:HA	4:GE:50:ASN:HB3	1.97	0.47
4:GE:349:THR:HG23	3:GF:179:VAL:HG12	1.97	0.47
4:GG:85:GLN:OE1	4:GG:85:GLN:N	2.38	0.47
4:GG:415:GLU:OE1	4:GG:415:GLU:N	2.46	0.47
4:GI:21:TRP:CD1	4:GI:53:PHE:HE1	2.31	0.47
3:GL:166:THR:OG1	3:GL:198:GLU:O	2.29	0.47
4:HA:345:ASP:N	4:HA:345:ASP:OD1	2.47	0.47
4:HA:351:PHE:CZ	3:HB:175:VAL:HB	2.49	0.47
4:HC:36:MET:HG3	4:HC:41:THR:OG1	2.15	0.47
4:HC:68:VAL:HA	4:HC:93:ILE:HB	1.96	0.47
3:HD:36:TYR:HE1	3:HD:38:GLY:HA2	1.79	0.47
3:HD:83:GLN:O	3:HD:86:ARG:NH2	2.47	0.47
4:HE:160:ASP:OD1	4:HE:161:TYR:N	2.47	0.47
4:HE:362:VAL:HA	4:HE:368:LEU:HD11	1.97	0.47
3:HF:380:ARG:O	3:HF:384:GLN:HG2	2.14	0.47
4:HI:138:PHE:HD1	4:HI:169:PHE:HB2	1.79	0.47
3:HJ:12:CYS:HB3	39:HJ:501:GTP:H5'	1.97	0.47
4:HK:245:ASP:OD1	4:HK:249:ASN:ND2	2.43	0.47
17:I1:61:TYR:HB2	17:I1:69:PHE:CD2	2.48	0.47
4:IA:1:MET:O	4:IA:133:GLN:NE2	2.43	0.47
4:IA:10:GLY:HA2	4:IA:145:THR:OG1	2.14	0.47
4:IA:279:GLU:O	4:IA:283:HIS:HD2	1.97	0.47
3:ID:406:MET:O	3:ID:409:THR:OG1	2.20	0.47
4:IE:54:SER:N	4:IE:62:VAL:O	2.46	0.47
4:IE:216:ASN:HB2	4:IE:276:ILE:HD12	1.96	0.47
4:IE:425:LEU:O	4:IE:428:LEU:N	2.47	0.47
3:IH:77:ARG:HD3	3:IH:90:PHE:HE2	1.80	0.47
3:IH:204:ASN:O	3:IH:208:TYR:N	2.35	0.47
3:IJ:3:GLU:HG2	3:IJ:130:LEU:HD13	1.96	0.47
3:IJ:11:GLN:HE21	39:IJ:501:GTP:H3'	1.80	0.47
3:IJ:67:ASP:N	3:IJ:67:ASP:OD1	2.47	0.47
3:IJ:87:PRO:HA	3:IJ:90:PHE:CD2	2.49	0.47
19:J1:39:LYS:HE2	19:J1:62:PHE:HD1	1.80	0.47
19:J2:170:SER:HB2	19:J2:171:PRO:HD2	1.96	0.47
19:J3:23:GLN:NE2	19:J3:26:ALA:O	2.35	0.47
4:JA:196:GLU:OE1	4:JA:196:GLU:N	2.45	0.47
4:JC:103:TYR:HB2	4:JC:186:ASN:HB2	1.96	0.47
4:JC:182:VAL:O	4:JC:185:TYR:HB2	2.14	0.47
4:JE:47:ASP:HB3	4:JE:49:PHE:CE2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:JI:132:LEU:HD21	4:JI:135:PHE:CE1	2.50	0.47
3:JJ:199:THR:N	3:JJ:264:HIS:O	2.48	0.47
3:JL:5:VAL:HB	3:JL:133:PHE:CE1	2.50	0.47
3:JL:217:LEU:O	3:JL:219:THR:N	2.48	0.47
21:K3:489:PRO:C	21:K3:491:ARG:H	2.22	0.47
21:K4:173:LEU:O	21:K4:177:GLN:HG3	2.14	0.47
4:KA:102:ASN:HD22	4:KA:105:ARG:HG3	1.78	0.47
4:KA:213:CYS:O	4:KA:219:ILE:N	2.41	0.47
4:KA:287:SER:HG	4:KA:290:GLU:CD	2.21	0.47
3:KB:258:VAL:O	4:KC:407:TRP:NE1	2.45	0.47
4:KC:325:PRO:HA	4:KC:328:VAL:HB	1.95	0.47
4:KE:256:GLN:HE22	3:KF:397:TRP:HE1	1.63	0.47
3:KF:21:TRP:CZ2	3:KF:63:ALA:HB2	2.50	0.47
3:KH:3:GLU:OE2	3:KH:127:CYS:HB3	2.14	0.47
3:KJ:3:GLU:OE2	3:KJ:127:CYS:HB3	2.13	0.47
3:KJ:12:CYS:HA	39:KJ:501:GTP:N2	2.30	0.47
4:KK:333:ALA:O	4:KK:337:THR:OG1	2.26	0.47
3:KL:52:ASN:CG	3:KL:62:ARG:HD3	2.39	0.47
20:L:22:GLU:O	20:L:26:MET:HG2	2.14	0.47
22:L2:35:ILE:HD11	4:ME:390:ARG:NH2	2.29	0.47
22:L2:48:THR:HG22	3:MD:340:TYR:OH	2.13	0.47
22:L4:48:THR:C	3:ML:336:LYS:HZ1	2.21	0.47
3:LB:3:GLU:OE2	3:LB:127:CYS:HB2	2.15	0.47
4:LC:117:LEU:O	4:LC:121:ARG:HG2	2.14	0.47
3:LD:272:PRO:HA	3:LD:292:GLN:OE1	2.15	0.47
4:LE:28:HIS:HB2	4:LE:30:ILE:HG12	1.95	0.47
4:LG:119:LEU:HD23	4:LG:122:ILE:HD12	1.95	0.47
3:LJ:15:GLN:O	3:LJ:19:LYS:HE2	2.15	0.47
3:LJ:361:LEU:HD11	3:LJ:364:SER:HB3	1.97	0.47
3:LL:3:GLU:HB2	3:LL:62:ARG:NH2	2.29	0.47
4:MC:319:TYR:HA	4:MC:374:ALA:O	2.14	0.47
4:ME:286:LEU:HD11	4:ME:372:GLN:H	1.80	0.47
3:MH:73:MET:HE1	3:MH:92:PHE:CG	2.49	0.47
3:MH:120:VAL:O	3:MH:124:ALA:N	2.36	0.47
3:MJ:12:CYS:HA	39:MJ:501:GTP:N2	2.30	0.47
3:MJ:357:PRO:O	3:MJ:359:ARG:NH1	2.44	0.47
4:MM:16:ILE:HG13	4:MM:17:GLY:N	2.29	0.47
4:NA:171:ILE:HD12	4:NA:204:VAL:HG13	1.96	0.47
4:NC:288:VAL:O	4:NC:292:THR:OG1	2.27	0.47
3:ND:216:LYS:HB3	3:ND:276:ARG:NH2	2.28	0.47
3:ND:375:GLN:HA	3:ND:378:PHE:CE1	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ND:380:ARG:O	3:ND:384:GLN:HG2	2.14	0.47
4:NE:11:GLN:HG3	39:NE:501:GTP:O1B	2.14	0.47
4:NE:178:SER:OG	4:NE:180:ALA:O	2.33	0.47
3:NF:34:GLY:HA3	3:NF:58:LYS:HZ2	1.79	0.47
3:NF:91:VAL:HG11	3:NF:116:VAL:HG12	1.95	0.47
4:NG:235:VAL:HA	4:NG:238:ILE:HG12	1.95	0.47
3:NH:190:HIS:ND1	3:NH:411:ALA:HA	2.29	0.47
3:NH:268:PRO:HD2	3:NH:301:ALA:HB2	1.95	0.47
3:NJ:132:GLY:HA3	3:NJ:163:ILE:H	1.79	0.47
3:NJ:262:ARG:NH2	3:NJ:425:TYR:OH	2.42	0.47
4:NK:54:SER:N	4:NK:62:VAL:O	2.47	0.47
3:NL:240:LEU:HD22	3:NL:248:ALA:HB1	1.96	0.47
28:O2:97:HIS:O	28:O2:98:LYS:HG2	2.15	0.47
3:OB:12:CYS:SG	3:OB:13:GLY:N	2.87	0.47
3:OB:261:PRO:HD3	4:OC:406:HIS:CG	2.49	0.47
4:OC:214:ARG:NH1	4:OC:215:ARG:HG3	2.29	0.47
4:OC:256:GLN:O	4:OC:260:VAL:HG12	2.15	0.47
3:OD:282:ARG:NH2	3:OD:292:GLN:OE1	2.26	0.47
3:OD:372:THR:HB	3:OD:375:GLN:HE22	1.79	0.47
4:OE:433:GLU:O	4:OE:437:VAL:HG23	2.14	0.47
3:OF:139:LEU:N	3:OF:168:SER:OG	2.47	0.47
3:OF:412:GLU:HA	3:OF:415:MET:HE2	1.96	0.47
4:OG:47:ASP:HB3	4:OG:49:PHE:CE2	2.49	0.47
3:OJ:11:GLN:HG3	39:OJ:501:GTP:PA	2.54	0.47
4:OK:28:HIS:HB2	4:OK:30:ILE:HG12	1.97	0.47
3:OL:257:MET:HE3	3:OL:257:MET:HA	1.97	0.47
29:P1:188:ASP:OD2	29:P1:191:ASN:ND2	2.41	0.47
29:P1:336:GLN:HA	29:P1:591:MET:SD	2.55	0.47
29:P2:261:MET:HG2	30:Q2:1501:LEU:HD11	1.96	0.47
3:PD:372:THR:HB	3:PD:375:GLN:HE22	1.79	0.47
3:PD:415:MET:O	3:PD:419:VAL:HG23	2.15	0.47
4:PE:178:SER:OG	4:PE:180:ALA:O	2.32	0.47
4:PE:254:GLU:OE1	4:PE:254:GLU:N	2.39	0.47
3:PF:51:TYR:CD2	3:PF:59:TYR:HB3	2.50	0.47
3:PF:81:PHE:O	3:PF:84:ILE:HG22	2.14	0.47
4:PK:397:LEU:O	4:PK:401:LYS:HE2	2.14	0.47
3:PL:12:CYS:HB3	39:PL:501:GTP:O4'	2.14	0.47
3:PL:44:LEU:HD23	37:YV:24:THR:HG21	1.96	0.47
3:PL:217:LEU:HD11	3:PL:220:PRO:HB3	1.96	0.47
3:PL:311:LEU:HD23	3:PL:342:VAL:HG11	1.97	0.47
4:PM:60:LYS:HE3	4:PM:86:LEU:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Q:7:LYS:O	27:Q:10:GLN:HG2	2.14	0.47
3:QD:88:ASP:OD1	3:QD:122:LYS:NZ	2.43	0.47
4:QE:402:ARG:HE	4:QE:405:VAL:HG21	1.80	0.47
3:QF:52:ASN:CG	3:QF:62:ARG:HD3	2.39	0.47
3:QF:178:THR:HB	3:QF:181:GLU:HB2	1.95	0.47
3:QF:423:GLN:O	3:QF:427:ASP:N	2.48	0.47
3:QH:384:GLN:O	3:QH:388:MET:HG2	2.14	0.47
4:QI:272:TYR:HE1	4:QI:374:ALA:HB1	1.78	0.47
3:QL:12:CYS:HA	39:QL:501:GTP:N2	2.29	0.47
4:QM:8:HIS:CE1	4:QM:21:TRP:HH2	2.33	0.47
4:QM:70:LEU:HA	4:QM:95:GLY:HA3	1.97	0.47
4:QM:245:ASP:OD1	4:QM:249:ASN:ND2	2.44	0.47
31:R3:264:HIS:HD2	31:R3:271:ARG:NH1	2.13	0.47
4:RC:272:TYR:HE1	4:RC:374:ALA:HB1	1.79	0.47
4:RC:351:PHE:CZ	3:RD:177:ASP:HA	2.49	0.47
3:RD:285:THR:O	3:RD:288:GLU:HG3	2.14	0.47
3:RF:11:GLN:HG3	39:RF:501:GTP:PA	2.53	0.47
3:RF:60:VAL:HG23	3:RF:86:ARG:HH11	1.79	0.47
4:RG:118:VAL:HA	4:RG:121:ARG:HG2	1.96	0.47
4:RG:165:SER:C	4:RG:166:LYS:HD2	2.39	0.47
3:RH:117:LEU:HB3	3:RH:121:ARG:NH2	2.29	0.47
3:RH:318:ARG:C	3:RH:321:MET:HE1	2.39	0.47
4:RI:52:PHE:HZ	4:RI:239:THR:HB	1.78	0.47
4:RI:318:LEU:O	4:RI:375:VAL:HA	2.15	0.47
4:RI:427:ALA:HA	4:RI:430:LYS:HG2	1.97	0.47
4:RK:141:PHE:HE2	4:RK:203:MET:HG3	1.80	0.47
4:RM:363:VAL:H	4:RM:368:LEU:HD21	1.79	0.47
3:SD:153:SER:HB3	3:SD:191:GLN:HE21	1.79	0.47
3:SD:268:PRO:HD2	3:SD:301:ALA:HB2	1.96	0.47
3:SF:322:SER:HG	3:SF:323:MET:H	1.62	0.47
3:SH:218:THR:OG1	3:SH:219:THR:N	2.47	0.47
4:SI:75:VAL:HG22	4:SI:79:ARG:HH21	1.79	0.47
3:SJ:11:GLN:HG3	39:SJ:501:GTP:PA	2.55	0.47
3:SL:28:HIS:ND1	3:SL:43:GLN:HB2	2.29	0.47
3:SL:178:THR:HB	3:SL:181:GLU:HB2	1.97	0.47
4:SM:287:SER:N	4:SM:290:GLU:OE2	2.48	0.47
4:TC:42:ILE:HG21	4:TC:59:GLY:HA2	1.96	0.47
4:TC:257:THR:HA	3:TD:397:TRP:CE2	2.49	0.47
3:TD:30:ILE:HG13	3:TD:36:TYR:HD1	1.80	0.47
3:TD:114:ASP:N	3:TD:114:ASP:OD1	2.45	0.47
4:TE:67:PHE:O	4:TE:93:ILE:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:TE:331:ALA:O	4:TE:334:THR:OG1	2.27	0.47
3:TF:372:THR:HB	3:TF:375:GLN:HE22	1.80	0.47
4:TG:287:SER:N	4:TG:290:GLU:OE2	2.47	0.47
3:TJ:51:TYR:CD1	3:TJ:61:PRO:HA	2.50	0.47
4:TM:206:ASN:HA	4:TM:209:ILE:HD12	1.97	0.47
3:TN:114:ASP:N	3:TN:114:ASP:OD1	2.44	0.47
33:U:254:ARG:HB3	33:U:258:LYS:NZ	2.30	0.47
3:UH:12:CYS:SG	3:UH:13:GLY:N	2.88	0.47
3:UJ:11:GLN:HG3	39:UJ:501:GTP:PA	2.54	0.47
4:UK:70:LEU:HB2	4:UK:145:THR:HG21	1.96	0.47
4:VC:22:GLU:O	4:VC:26:LEU:HD23	2.14	0.47
3:VF:254:ALA:HA	3:VF:257:MET:HG2	1.95	0.47
4:VG:107:HIS:HA	4:VG:152:LEU:HD23	1.97	0.47
4:VG:316:CYS:HB3	4:VG:378:LEU:HB3	1.96	0.47
4:VG:318:LEU:O	4:VG:375:VAL:HA	2.14	0.47
3:VJ:52:ASN:ND2	3:VJ:62:ARG:HD3	2.29	0.47
3:VJ:324:LYS:HE2	4:VK:222:PRO:HD2	1.95	0.47
33:W:234:ILE:HG13	33:W:237:ARG:HH21	1.79	0.47
3:WB:19:LYS:NZ	3:WB:223:GLY:O	2.44	0.47
3:WB:114:ASP:OD1	3:WB:115:SER:N	2.47	0.47
3:WB:394:PHE:HA	3:WB:397:TRP:HZ3	1.79	0.47
4:WC:2:ARG:HA	4:WC:133:GLN:HE22	1.79	0.47
4:WC:11:GLN:O	4:WC:14:VAL:HG22	2.14	0.47
4:WC:145:THR:OG1	39:WC:501:GTP:O1B	2.29	0.47
4:WE:51:THR:HG23	4:WE:52:PHE:CD2	2.49	0.47
4:WE:346:TRP:HE1	3:WF:391:ARG:NH1	2.13	0.47
3:WF:28:HIS:O	3:WF:43:GLN:NE2	2.48	0.47
4:WG:319:TYR:N	4:WG:354:GLY:O	2.47	0.47
34:XA:89:PHE:HB2	34:XA:156:ILE:HD13	1.95	0.47
34:XD:33:HIS:CE1	34:XD:50:GLU:HB2	2.50	0.47
34:XG:49:ILE:HG22	34:XG:158:ALA:HA	1.97	0.47
35:XI:88:ASP:OD1	35:XI:90:HIS:N	2.42	0.47
35:XJ:60:TYR:OH	35:XJ:107:TYR:HB3	2.14	0.47
35:XJ:176:GLN:N	35:XJ:176:GLN:OE1	2.47	0.47
37:YA:141:ILE:HB	37:YA:142:PRO:HD3	1.97	0.47
37:YB:90:THR:O	37:YB:94:ASN:N	2.30	0.47
37:YJ:63:ARG:O	37:YJ:67:ILE:HG23	2.15	0.47
37:YS:125:LEU:HD21	37:YS:138:VAL:HG11	1.96	0.47
37:YU:140:LEU:O	37:YU:144:VAL:HG23	2.14	0.47
37:YV:139:SER:O	37:YV:143:ILE:HG12	2.14	0.47
2:A1:282:LEU:HB2	2:A1:372:LEU:CD2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A3:253:LEU:HB3	2:A3:400:ARG:NH2	2.30	0.47
3:AB:323:MET:N	3:AB:323:MET:SD	2.87	0.47
4:AC:329:ASN:OD1	4:AC:330:ALA:N	2.48	0.47
4:AC:370:LYS:HB2	14:G4:71:TRP:CZ3	2.49	0.47
4:AE:165:SER:C	4:AE:166:LYS:HD2	2.40	0.47
4:AE:216:ASN:HB2	4:AE:276:ILE:HD12	1.96	0.47
3:AF:87:PRO:HA	3:AF:90:PHE:CD2	2.49	0.47
4:AG:36:MET:HE2	4:AG:36:MET:N	2.29	0.47
4:AG:319:TYR:HE2	4:AG:328:VAL:HG13	1.80	0.47
4:AG:386:GLU:O	4:AG:390:ARG:HG2	2.15	0.47
3:AJ:249:ASP:O	3:AJ:253:LEU:HG	2.15	0.47
4:AK:172:TYR:N	4:AK:204:VAL:O	2.35	0.47
4:AK:421:ALA:HA	4:AK:424:ASP:HB2	1.96	0.47
4:AM:22:GLU:O	4:AM:26:LEU:HD23	2.14	0.47
5:B3:176:HIS:CG	10:E2:126:GLN:HE22	2.32	0.47
5:B6:351:THR:O	5:B6:355:LYS:HG2	2.15	0.47
5:B7:34:ALA:O	5:B7:38:ILE:HG12	2.13	0.47
5:B7:401:ALA:HB3	7:C8:349:ASN:HD22	1.78	0.47
5:B8:283:GLU:O	5:B8:287:LEU:HG	2.14	0.47
3:BB:206:ALA:O	3:BB:210:ILE:HG12	2.14	0.47
4:BC:117:LEU:O	4:BC:121:ARG:HG2	2.14	0.47
4:BC:405:VAL:O	4:BC:409:VAL:HG22	2.14	0.47
3:BD:117:LEU:HD11	3:BD:154:LYS:HD2	1.96	0.47
3:BD:328:GLU:OE1	3:BD:332:ASN:ND2	2.47	0.47
4:BE:66:VAL:HA	4:BE:91:GLN:OE1	2.14	0.47
4:BE:187:SER:O	4:BE:190:THR:OG1	2.23	0.47
3:BH:7:LEU:HD13	3:BH:64:VAL:HB	1.96	0.47
3:BJ:87:PRO:HA	3:BJ:90:PHE:CD2	2.49	0.47
4:BK:333:ALA:HA	4:BK:336:LYS:HD2	1.96	0.47
4:BM:22:GLU:O	4:BM:26:LEU:HD23	2.14	0.47
4:BM:141:PHE:CE2	4:BM:203:MET:HE1	2.42	0.47
7:C3:138:THR:O	7:C4:419:ARG:NH2	2.47	0.47
7:C8:131:LYS:HA	7:C8:134:GLN:HE21	1.78	0.47
3:CB:156:ARG:CZ	3:CB:164:MET:HE3	2.45	0.47
4:CC:172:TYR:HB2	4:CC:203:MET:HB2	1.96	0.47
3:CF:114:ASP:OD1	3:CF:115:SER:N	2.46	0.47
3:CF:176:SER:O	3:CF:178:THR:N	2.47	0.47
3:CJ:4:ILE:HD11	3:CJ:131:GLN:HB2	1.95	0.47
3:CJ:36:TYR:CE2	3:CJ:38:GLY:HA2	2.50	0.47
3:CJ:114:ASP:N	3:CJ:114:ASP:OD1	2.43	0.47
4:CK:79:ARG:NH1	15:H5:220:GLY:O	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CM:174:ALA:HB3	4:CM:177:VAL:O	2.15	0.47
7:Cc:246:SER:O	7:Cc:249:SER:OG	2.28	0.47
7:Cd:300:TRP:O	7:Cd:304:THR:HG23	2.15	0.47
6:D:217:THR:H	6:D:221:ARG:HG2	1.79	0.47
8:D2:236:THR:HG23	8:D2:237:GLN:HG2	1.96	0.47
8:D4:311:LEU:HB3	8:D4:419:LYS:HZ3	1.79	0.47
8:D8:228:CYS:O	8:D8:231:TYR:HD1	1.97	0.47
4:DA:139:HIS:CD2	4:DA:170:ALA:HB2	2.49	0.47
4:DC:2:ARG:HA	4:DC:133:GLN:HE22	1.79	0.47
4:DC:103:TYR:HB2	4:DC:186:ASN:HB2	1.97	0.47
3:DD:223:GLY:HA2	3:DD:226:ASN:OD1	2.15	0.47
3:DF:150:LEU:O	3:DF:153:SER:OG	2.25	0.47
4:DG:22:GLU:O	4:DG:26:LEU:HD23	2.15	0.47
4:DI:192:HIS:CE1	4:DI:193:THR:HG23	2.50	0.47
3:DJ:114:ASP:OD1	3:DJ:115:SER:N	2.47	0.47
4:DK:47:ASP:HB3	4:DK:49:PHE:CE2	2.49	0.47
4:DK:196:GLU:HG2	4:DK:197:HIS:ND1	2.29	0.47
3:DL:107:THR:OG1	3:DL:401:GLU:OE2	2.32	0.47
4:EA:27:GLU:HG3	4:EA:243:ARG:HH12	1.79	0.47
4:EE:388:TRP:HB3	4:EE:425:LEU:HD11	1.96	0.47
3:EF:206:ALA:O	3:EF:210:ILE:HG12	2.14	0.47
3:EF:262:ARG:NH2	3:EF:425:TYR:OH	2.47	0.47
3:EF:423:GLN:HA	3:EF:426:GLN:HE21	1.79	0.47
4:EI:88:HIS:CE1	4:EI:121:ARG:HH22	2.33	0.47
3:EJ:318:ARG:C	3:EJ:321:MET:HE1	2.39	0.47
4:EK:28:HIS:HB2	4:EK:30:ILE:CD1	2.44	0.47
4:EK:47:ASP:HB3	4:EK:49:PHE:CE2	2.49	0.47
3:EL:257:MET:O	3:EL:259:PRO:HD3	2.15	0.47
9:F:283:SER:HB2	4:II:372:GLN:NE2	2.30	0.47
11:F3:196:TYR:HB3	11:F3:200:LYS:HZ2	1.79	0.47
11:F6:156:LEU:HD13	11:F6:257:LYS:NZ	2.29	0.47
11:F7:280:PHE:HE1	11:F8:394:THR:HA	1.79	0.47
3:FB:392:LYS:HB2	3:FB:395:LEU:HD12	1.97	0.47
4:FC:16:ILE:HG22	4:FC:228:ASN:OD1	2.15	0.47
4:FC:272:TYR:CZ	4:FC:274:PRO:HG2	2.49	0.47
4:FE:34:GLY:HA2	4:FE:86:LEU:HD11	1.96	0.47
4:FG:28:HIS:HB2	4:FG:30:ILE:CD1	2.45	0.47
4:FG:185:TYR:CZ	4:FG:398:MET:HE1	2.49	0.47
11:Fb:377:LEU:HD23	11:Fb:380:ARG:HH21	1.80	0.47
11:Ff:447:THR:HG22	11:Ff:450:ARG:HH21	1.80	0.47
11:Fg:253:ASP:OD1	11:Fg:254:ILE:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Fj:305:ARG:HA	11:Fj:308:GLN:HE21	1.80	0.47
11:Fk:152:TRP:O	11:Fk:156:LEU:HG	2.14	0.47
11:Fm:226:GLN:HB3	11:Fm:230:ARG:CZ	2.44	0.47
11:Fm:447:THR:O	11:Fm:451:LEU:HG	2.14	0.47
12:G:330:GLN:HA	12:G:333:GLU:OE1	2.14	0.47
12:G:454:GLN:NE2	12:G:455:ILE:HG13	2.30	0.47
13:G1:422:TYR:HB3	13:G1:505:ILE:HG23	1.96	0.47
14:G5:456:PHE:HD2	14:G5:458:LEU:HD12	1.79	0.47
14:G5:566:PHE:HD1	14:G5:735:TYR:HE1	1.62	0.47
14:G6:26:TRP:NE1	14:G6:35:LEU:HD12	2.30	0.47
4:GA:390:ARG:HA	4:GA:393:HIS:CD2	2.50	0.47
3:GB:254:ALA:O	3:GB:258:VAL:N	2.47	0.47
3:GD:3:GLU:OE2	3:GD:127:CYS:HB3	2.14	0.47
3:GF:12:CYS:SG	3:GF:13:GLY:N	2.88	0.47
3:GH:132:GLY:HA3	3:GH:163:ILE:H	1.79	0.47
4:GI:120:ASP:HA	4:GI:123:ARG:NH1	2.29	0.47
4:GI:160:ASP:OD1	4:GI:161:TYR:N	2.48	0.47
4:GI:216:ASN:HD21	4:GI:275:VAL:HG23	1.79	0.47
4:GK:216:ASN:HD21	4:GK:275:VAL:HG23	1.79	0.47
15:H1:227:ARG:NH2	15:H1:231:VAL:HB	2.29	0.47
4:HA:122:ILE:HA	4:HA:125:LEU:HG	1.95	0.47
3:HB:318:ARG:HA	3:HB:354:CYS:HB3	1.96	0.47
4:HC:51:THR:HG23	4:HC:52:PHE:CD2	2.49	0.47
4:HC:88:HIS:HA	4:IC:283:HIS:HE1	1.79	0.47
4:HC:331:ALA:O	4:HC:334:THR:OG1	2.28	0.47
3:HD:247:ASN:HB3	3:HD:252:LYS:HG2	1.96	0.47
3:HF:270:PHE:HD2	3:HF:273:LEU:HD21	1.78	0.47
4:HG:115:VAL:HA	4:HG:118:VAL:HG22	1.96	0.47
4:HG:324:VAL:HB	4:HG:326:LYS:HZ1	1.79	0.47
3:HH:118:ASP:HA	3:HH:121:ARG:HG2	1.95	0.47
3:HH:238:THR:HG22	3:HH:241:ARG:NH2	2.30	0.47
3:HH:250:LEU:HD23	3:HH:254:ALA:HB2	1.95	0.47
3:HH:330:MET:SD	3:HH:349:VAL:HG21	2.54	0.47
4:HI:308:ARG:NH2	4:HI:341:ILE:HA	2.29	0.47
4:HI:388:TRP:HB3	4:HI:425:LEU:HD11	1.97	0.47
4:HI:425:LEU:O	4:HI:428:LEU:N	2.48	0.47
3:HJ:404:ASP:N	3:HJ:404:ASP:OD1	2.47	0.47
4:HK:145:THR:OG1	39:HK:501:GTP:O1B	2.30	0.47
3:HL:3:GLU:OE2	3:HL:129:CYS:N	2.48	0.47
3:IB:234:SER:O	3:IB:238:THR:HG23	2.14	0.47
4:IC:172:TYR:N	4:IC:204:VAL:O	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:IE:187:SER:OG	4:IE:188:ILE:HD12	2.14	0.47
3:IH:189:VAL:HA	3:IH:192:LEU:HD12	1.97	0.47
4:II:223:THR:OG1	4:II:225:THR:OG1	2.21	0.47
3:IJ:66:VAL:HA	3:IJ:91:VAL:O	2.15	0.47
3:IJ:178:THR:HB	3:IJ:181:GLU:HB2	1.97	0.47
3:IL:32:PRO:O	3:IL:83:GLN:NE2	2.36	0.47
3:IL:286:VAL:HG21	3:IL:325:GLU:HG3	1.95	0.47
4:IM:66:VAL:HG12	4:IM:68:VAL:HG13	1.96	0.47
4:IM:392:ASP:O	4:IM:396:ASP:N	2.37	0.47
18:J:102:ASP:HA	18:J:106:ARG:HB2	1.97	0.47
3:JB:290:THR:HG21	3:JB:329:GLN:HB3	1.95	0.47
4:JC:390:ARG:HA	4:JC:393:HIS:CD2	2.50	0.47
3:JD:249:ASP:O	3:JD:252:LYS:HB2	2.14	0.47
4:JI:386:GLU:HA	4:JI:389:ALA:HB3	1.97	0.47
3:JJ:152:ILE:O	3:JJ:156:ARG:HG2	2.15	0.47
21:K2:46:MET:HE2	21:K2:108:ARG:HH11	1.79	0.47
21:K4:46:MET:HB3	21:K4:108:ARG:NH1	2.29	0.47
3:KD:357:PRO:HB3	3:KD:362:LYS:O	2.14	0.47
4:KE:139:HIS:CD2	4:KE:170:ALA:HB2	2.50	0.47
3:KH:305:PRO:HB2	3:KH:310:TYR:HE1	1.80	0.47
4:KI:319:TYR:HB2	4:KI:355:ILE:HD13	1.97	0.47
4:KK:105:ARG:O	4:KK:109:THR:OG1	2.26	0.47
4:KK:318:LEU:O	4:KK:375:VAL:HA	2.15	0.47
3:KL:418:LEU:HA	3:KL:421:GLU:HB2	1.97	0.47
3:LD:316:VAL:N	3:LD:366:THR:O	2.35	0.47
4:LE:320:ARG:HD3	4:LE:360:PRO:HG3	1.95	0.47
3:LF:178:THR:HB	3:LF:181:GLU:HB2	1.95	0.47
4:LG:412:GLY:O	4:LG:413:MET:HE2	2.14	0.47
4:LI:271:THR:HB	4:LI:377:MET:HB2	1.96	0.47
3:LL:61:PRO:HD3	3:LL:84:ILE:HG13	1.96	0.47
3:LL:282:ARG:NE	3:LL:288:GLU:OE1	2.45	0.47
4:MC:12:ALA:HB1	39:MC:501:GTP:N3	2.30	0.47
3:MD:41:ASP:N	3:MD:41:ASP:OD1	2.46	0.47
3:MD:206:ALA:O	3:MD:210:ILE:HG12	2.14	0.47
3:MD:406:MET:O	3:MD:409:THR:OG1	2.25	0.47
4:MG:272:TYR:HE1	4:MG:374:ALA:HB1	1.79	0.47
4:MI:352:LYS:NZ	3:MJ:178:THR:HA	2.30	0.47
4:MK:208:ALA:H	4:MK:304:LYS:NZ	2.13	0.47
4:MM:105:ARG:HG2	4:MM:109:THR:HG21	1.96	0.47
26:N1:78:LEU:HG	26:N1:96:GLN:OE1	2.14	0.47
4:NC:9:VAL:HA	4:NC:68:VAL:HG23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ND:216:LYS:HB3	3:ND:276:ARG:CZ	2.44	0.47
3:ND:253:LEU:O	3:ND:257:MET:HG2	2.14	0.47
3:ND:347:ASN:HB3	4:NE:178:SER:HB3	1.97	0.47
4:NE:46:ASP:OD1	4:NE:50:ASN:ND2	2.45	0.47
4:NG:165:SER:C	4:NG:166:LYS:HD2	2.40	0.47
4:NG:204:VAL:HG23	4:NG:302:MET:HG3	1.96	0.47
28:O2:36:GLU:OE1	30:Q2:1416:ARG:NH1	2.45	0.47
4:OC:397:LEU:O	4:OC:401:LYS:HG2	2.15	0.47
3:OF:346:PRO:HG2	4:OG:394:LYS:HZ3	1.80	0.47
4:OK:102:ASN:ND2	4:OK:411:GLU:OE2	2.43	0.47
4:OK:208:ALA:N	4:OK:304:LYS:HZ1	2.11	0.47
29:P2:285:LYS:NZ	29:P2:319:PHE:O	2.47	0.47
29:P2:571:VAL:O	29:P2:580:THR:N	2.32	0.47
29:P3:62:GLY:O	29:P3:106:ARG:NH2	2.48	0.47
3:PB:166:THR:OG1	3:PB:198:GLU:O	2.29	0.47
4:PC:1:MET:O	4:PC:133:GLN:NE2	2.47	0.47
3:PF:289:LEU:HD21	3:PF:363:MET:HB3	1.96	0.47
3:PH:3:GLU:HA	3:PH:49:VAL:HG23	1.97	0.47
4:PI:88:HIS:CE1	4:PI:121:ARG:HH22	2.31	0.47
4:PK:287:SER:H	4:PK:290:GLU:CD	2.22	0.47
4:PM:89:PRO:HD2	4:QM:280:LYS:HZ3	1.79	0.47
4:PM:113:GLU:OE1	4:PM:113:GLU:N	2.48	0.47
27:Q:107:ARG:N	27:Q:110:PHE:HB2	2.29	0.47
27:Q:147:ASN:HA	27:Q:150:GLU:HB3	1.97	0.47
27:Q:159:SER:HB3	27:Q:163:PHE:CZ	2.50	0.47
4:QC:392:ASP:OD1	4:QC:393:HIS:N	2.47	0.47
3:QD:40:SER:HB3	3:QD:42:LEU:HD23	1.95	0.47
3:QD:306:ARG:O	3:QD:306:ARG:NE	2.43	0.47
3:QF:309:ARG:O	3:QF:371:SER:OG	2.28	0.47
4:QG:36:MET:HG3	4:QG:41:THR:OG1	2.15	0.47
4:QG:160:ASP:OD1	4:QG:161:TYR:N	2.48	0.47
4:QG:174:ALA:HB3	4:QG:177:VAL:O	2.15	0.47
3:QH:101:TRP:HB2	3:QH:184:ASN:HD22	1.80	0.47
4:QI:16:ILE:HD11	4:QI:138:PHE:HB3	1.96	0.47
4:QI:88:HIS:O	4:QI:91:GLN:HG3	2.14	0.47
4:QI:423:GLU:HA	4:QI:426:ALA:HB3	1.97	0.47
3:QJ:142:GLY:N	39:QJ:501:GTP:O3B	2.47	0.47
4:QK:345:ASP:N	4:QK:345:ASP:OD1	2.47	0.47
31:R1:119:ASN:O	31:R1:123:MET:HG2	2.15	0.47
3:RB:37:HIS:HA	37:YA:64:ARG:HH22	1.79	0.47
4:RC:82:THR:O	4:RC:84:ARG:NH1	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RF:46:ARG:HH12	4:RG:73:THR:HG23	1.78	0.47
4:RG:36:MET:HG3	4:RG:41:THR:OG1	2.15	0.47
4:RG:423:GLU:HA	4:RG:426:ALA:HB3	1.96	0.47
3:RH:234:SER:O	3:RH:238:THR:HG23	2.13	0.47
4:RI:12:ALA:HB1	39:RI:501:GTP:C2	2.50	0.47
4:RK:390:ARG:HA	4:RK:393:HIS:CD2	2.49	0.47
3:RL:282:ARG:HE	3:RL:288:GLU:CD	2.22	0.47
3:RL:324:LYS:HD2	4:RM:221:ARG:HA	1.97	0.47
3:SD:73:MET:HE1	3:SD:92:PHE:CG	2.50	0.47
4:SE:154:MET:HE3	4:SE:194:THR:HG22	1.96	0.47
4:SE:165:SER:C	4:SE:166:LYS:HD2	2.39	0.47
3:SF:215:LEU:HD11	3:SF:228:LEU:HD11	1.96	0.47
4:SG:417:GLU:O	4:SG:420:GLU:HG2	2.14	0.47
3:SH:58:LYS:HE2	3:TH:281:TYR:CE1	2.50	0.47
4:SI:30:ILE:HG13	4:SI:53:PHE:HE2	1.80	0.47
4:SK:288:VAL:HG11	4:SK:327:ASP:HB2	1.97	0.47
3:SL:58:LYS:HE2	3:TL:281:TYR:HE1	1.80	0.47
3:TB:101:TRP:HB2	3:TB:184:ASN:HD22	1.80	0.47
3:TF:398:TYR:HB3	3:TF:403:MET:HB3	1.96	0.47
4:TG:150:ALA:O	4:TG:154:MET:HG3	2.15	0.47
3:TH:378:PHE:CD1	3:TH:419:VAL:HG22	2.50	0.47
4:TI:113:GLU:OE1	4:TI:113:GLU:N	2.43	0.47
3:UB:11:GLN:HG3	39:UB:501:GTP:O5’	2.14	0.47
4:UE:22:GLU:HG2	4:UE:83:TYR:CE2	2.49	0.47
4:UE:188:ILE:HG22	4:UE:421:ALA:HB1	1.96	0.47
3:UF:235:GLY:O	3:UF:238:THR:OG1	2.19	0.47
3:UF:241:ARG:HG3	3:UF:242:PHE:CD1	2.50	0.47
4:UG:103:TYR:HB2	4:UG:186:ASN:HB2	1.95	0.47
3:VB:172:SER:OG	3:VB:205:GLU:OE2	2.22	0.47
3:VF:379:LYS:O	3:VF:382:SER:OG	2.21	0.47
4:VG:172:TYR:CD1	4:VG:203:MET:HG2	2.47	0.47
4:VG:271:THR:HB	4:VG:377:MET:HB2	1.95	0.47
3:VH:21:TRP:CZ2	3:VH:63:ALA:HB2	2.48	0.47
33:W:216:GLN:O	33:W:219:LYS:HG2	2.15	0.47
4:WC:165:SER:C	4:WC:166:LYS:HD2	2.40	0.47
3:WD:30:ILE:HG13	3:WD:36:TYR:HD1	1.79	0.47
3:WD:152:ILE:O	3:WD:156:ARG:HG2	2.14	0.47
4:WE:165:SER:C	4:WE:166:LYS:HD2	2.39	0.47
4:WE:331:ALA:O	4:WE:334:THR:OG1	2.30	0.47
4:WG:408:TYR:CD2	4:WG:418:PHE:HZ	2.33	0.47
3:WH:46:ARG:HH12	4:WI:73:THR:HG23	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:WH:152:ILE:HD12	3:WH:195:ASN:HB2	1.95	0.47
34:XB:71:ILE:HG22	34:XB:73:LEU:H	1.79	0.47
34:XE:92:GLN:HE21	34:XE:100:ARG:HB3	1.78	0.47
34:XE:133:GLN:N	34:XE:133:GLN:OE1	2.48	0.47
34:XF:81:LYS:HD2	34:XF:129:TRP:NE1	2.29	0.47
36:Y:154:LEU:HD21	36:Z:490:ALA:HB1	1.96	0.47
37:YA:105:SER:HB2	37:YA:108:ASN:HB3	1.96	0.47
37:YA:124:HIS:O	37:YA:124:HIS:ND1	2.44	0.47
37:YC:15:TYR:HA	37:YC:18:PHE:HB3	1.97	0.47
37:YE:4:VAL:HG13	37:YE:79:LEU:HG	1.95	0.47
37:YR:5:LYS:HG3	37:YR:9:ARG:NE	2.29	0.47
1:A:242:GLN:HG2	4:GC:42:ILE:HD12	1.95	0.47
1:A:309:THR:O	1:A:312:GLN:NE2	2.47	0.47
2:A1:128:VAL:HG22	2:A1:129:HIS:O	2.14	0.47
2:A1:371:ALA:O	2:A1:375:GLU:OE1	2.32	0.47
2:A2:38:VAL:CG1	2:A2:42:GLN:HE22	2.27	0.47
2:A2:318:GLU:O	2:A2:321:THR:OG1	2.24	0.47
2:A2:328:LEU:HD23	2:A3:212:VAL:HG22	1.96	0.47
2:A3:90:ASP:HB3	2:A3:239:LYS:HE2	1.95	0.47
3:AB:80:PRO:O	3:AB:83:GLN:NE2	2.37	0.47
3:AB:130:LEU:HB2	3:AB:162:ARG:HH11	1.79	0.47
3:AB:206:ALA:O	3:AB:210:ILE:HG12	2.15	0.47
4:AC:9:VAL:HA	4:AC:68:VAL:HG23	1.97	0.47
4:AC:104:ALA:HA	4:AC:107:HIS:HB3	1.96	0.47
4:AC:431:ASP:HA	4:AC:434:GLU:HG2	1.96	0.47
3:AD:324:LYS:HD3	4:AE:210:TYR:HE1	1.79	0.47
4:AE:102:ASN:ND2	4:AE:411:GLU:OE2	2.37	0.47
4:AE:149:PHE:CE2	4:AE:153:LEU:HD11	2.49	0.47
4:AE:186:ASN:HA	4:AE:189:LEU:HD12	1.96	0.47
4:AE:234:ILE:O	4:AE:237:SER:OG	2.31	0.47
4:AE:386:GLU:HA	4:AE:389:ALA:HB3	1.96	0.47
4:AE:398:MET:O	4:AE:402:ARG:N	2.47	0.47
4:AI:2:ARG:NH1	4:AI:241:SER:O	2.48	0.47
4:AI:245:ASP:O	4:AI:356:ASN:ND2	2.47	0.47
4:AI:263:PRO:HB2	4:AI:264:ARG:NH1	2.29	0.47
4:AI:288:VAL:O	4:AI:292:THR:OG1	2.25	0.47
3:AJ:119:VAL:O	3:AJ:122:LYS:N	2.47	0.47
4:AK:46:ASP:HA	4:AK:50:ASN:HB3	1.95	0.47
4:AK:245:ASP:OD1	4:AK:249:ASN:ND2	2.45	0.47
4:AK:311:LYS:NZ	4:AK:343:PHE:O	2.45	0.47
4:AK:319:TYR:HE2	4:AK:328:VAL:HG13	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AK:333:ALA:HA	4:AK:336:LYS:HD2	1.96	0.47
3:AL:16:ILE:HD13	3:AL:226:ASN:ND2	2.29	0.47
5:B1:124:ARG:HA	5:B1:124:ARG:NH1	2.29	0.47
5:B1:125:ASP:OD1	5:B1:126:ILE:N	2.48	0.47
5:B2:12:TYR:H	5:B2:12:TYR:HD1	1.59	0.47
5:B2:69:ASP:HA	5:B2:72:ASN:ND2	2.29	0.47
5:B2:408:VAL:HG13	5:B2:409:ASP:N	2.30	0.47
5:B3:171:GLN:HE22	5:B3:172:LEU:HG	1.80	0.47
5:B4:140:GLU:OE2	5:B4:257:GLN:HG3	2.15	0.47
5:B4:167:GLU:O	5:B4:171:GLN:OE1	2.33	0.47
5:B6:42:ALA:HB1	5:B7:355:LYS:HE3	1.97	0.47
5:B6:90:ASP:CG	5:B6:94:GLN:HE22	2.22	0.47
5:B7:263:PHE:CE2	5:B7:267:LYS:HD2	2.49	0.47
5:B7:339:ILE:HG22	5:B7:343:HIS:HE1	1.80	0.47
5:B8:46:ARG:HH11	5:B9:299:ARG:NE	2.13	0.47
5:B8:132:PRO:HD2	5:B8:268:ARG:NH2	2.30	0.47
5:B8:389:LYS:HA	7:C7:337:TRP:CZ2	2.49	0.47
3:BB:172:SER:OG	3:BB:205:GLU:OE2	2.19	0.47
4:BC:109:THR:O	4:BC:112:LYS:NZ	2.48	0.47
4:BC:186:ASN:HA	4:BC:189:LEU:HB2	1.96	0.47
4:BC:260:VAL:HG23	4:BC:265:ILE:O	2.15	0.47
4:BC:345:ASP:N	4:BC:345:ASP:OD1	2.47	0.47
3:BD:313:VAL:HG23	3:BD:349:VAL:HA	1.96	0.47
4:BE:185:TYR:CZ	4:BE:398:MET:HE1	2.50	0.47
4:BE:207:GLU:HB2	4:BE:304:LYS:NZ	2.29	0.47
4:BE:245:ASP:O	4:BE:356:ASN:ND2	2.46	0.47
4:BE:387:ALA:O	4:BE:391:LEU:HG	2.15	0.47
3:BF:28:HIS:ND1	3:BF:43:GLN:HB2	2.29	0.47
4:BG:66:VAL:HG12	4:BG:68:VAL:HG13	1.96	0.47
4:BI:52:PHE:HZ	4:BI:239:THR:HB	1.79	0.47
4:BI:286:LEU:HD11	4:BI:373:ARG:H	1.79	0.47
4:BI:333:ALA:HA	4:BI:336:LYS:HD2	1.97	0.47
4:BI:396:ASP:OD1	4:BI:397:LEU:N	2.47	0.47
3:BJ:2:ARG:HB3	3:BJ:131:GLN:CD	2.40	0.47
3:BJ:330:MET:HA	3:BJ:333:VAL:HG12	1.96	0.47
4:BK:145:THR:OG1	39:BK:501:GTP:O1B	2.33	0.47
4:BK:175:PRO:HB3	4:BK:390:ARG:HD2	1.96	0.47
4:BK:216:ASN:ND2	4:BK:275:VAL:HG23	2.29	0.47
3:BL:46:ARG:HH22	4:BM:73:THR:HG23	1.79	0.47
3:BL:166:THR:OG1	3:BL:198:GLU:O	2.31	0.47
3:BL:386:THR:O	3:BL:390:ARG:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:202:LEU:O	6:C:206:ASP:N	2.34	0.47
7:C2:93:ARG:HB3	7:C3:211:VAL:HG12	1.96	0.47
7:C2:202:ARG:HE	7:C2:205:ARG:NH1	2.12	0.47
7:C3:374:GLN:O	7:C3:377:MET:HB3	2.15	0.47
7:C4:178:LYS:NZ	7:C4:179:ARG:HH12	2.13	0.47
7:C5:398:THR:O	7:C5:401:ASP:HB2	2.15	0.47
3:CB:266:PHE:HD1	3:CB:370:ASN:OD1	1.97	0.47
3:CB:386:THR:O	3:CB:390:ARG:HG2	2.15	0.47
4:CC:432:TYR:O	4:CC:436:GLY:N	2.46	0.47
3:CD:217:LEU:HD12	3:CD:220:PRO:HD3	1.97	0.47
3:CD:234:SER:O	3:CD:238:THR:HG23	2.14	0.47
3:CD:273:LEU:H	3:CD:292:GLN:NE2	2.10	0.47
3:CD:328:GLU:OE1	3:CD:332:ASN:ND2	2.48	0.47
3:CD:376:GLU:H	3:CD:376:GLU:CD	2.19	0.47
4:CE:432:TYR:HA	4:CE:435:VAL:HG22	1.97	0.47
3:CF:214:THR:HG21	3:CF:273:LEU:HB3	1.96	0.47
4:CG:192:HIS:CE1	4:CG:193:THR:HG23	2.50	0.47
4:CG:213:CYS:O	4:CG:218:ASP:N	2.47	0.47
4:CG:397:LEU:O	4:CG:401:LYS:HG2	2.15	0.47
3:CH:317:PHE:HB3	3:CH:321:MET:HE3	1.96	0.47
3:CH:392:LYS:HD2	3:CH:392:LYS:O	2.15	0.47
4:CI:207:GLU:HB2	4:CI:304:LYS:NZ	2.29	0.47
3:CJ:186:THR:HG23	3:CJ:385:PHE:CZ	2.50	0.47
4:CK:12:ALA:HB2	39:CK:501:GTP:H5"	1.96	0.47
4:CK:31:GLN:NE2	4:CK:37:PRO:HD3	2.30	0.47
4:CK:67:PHE:O	4:CK:93:ILE:N	2.47	0.47
4:CK:85:GLN:OE1	4:CK:85:GLN:N	2.31	0.47
4:CK:213:CYS:O	4:CK:219:ILE:N	2.36	0.47
3:CL:200:TYR:HE1	3:CL:368:ILE:HD13	1.79	0.47
3:CL:253:LEU:O	3:CL:257:MET:HG2	2.14	0.47
3:CL:316:VAL:HG22	3:CL:352:ALA:HB3	1.97	0.47
4:CM:10:GLY:HA2	4:CM:145:THR:OG1	2.15	0.47
4:CM:84:ARG:HA	4:CM:87:PHE:CD2	2.50	0.47
7:Cb:200:PHE:CZ	8:D2:44:ALA:HB3	2.49	0.47
7:Cb:392:PHE:CZ	7:Cc:139:GLN:HB2	2.50	0.47
7:Cc:200:PHE:CZ	8:D3:44:ALA:HB3	2.50	0.47
7:Cc:363:THR:O	7:Cc:366:THR:OG1	2.32	0.47
7:Cc:442:GLU:HA	7:Cc:445:LEU:HD12	1.96	0.47
6:D:29:ILE:HB	6:D:96:ASP:HB3	1.96	0.47
8:D1:67:ALA:O	8:D1:71:ARG:HG3	2.14	0.47
8:D2:400:GLN:HA	8:D2:403:ARG:NE	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:D3:136:LEU:HB3	8:D3:140:ARG:HH12	1.80	0.47
8:D4:430:CYS:O	8:D4:434:ARG:HG2	2.15	0.47
8:D5:324:LYS:O	8:D5:327:THR:OG1	2.21	0.47
8:D5:336:ILE:HD13	8:D5:398:ALA:HB3	1.96	0.47
8:D6:386:MET:O	8:D6:389:ARG:HD3	2.15	0.47
8:D7:128:THR:HA	8:D7:131:MET:HG2	1.95	0.47
8:D8:147:VAL:HG12	8:D8:151:ILE:HD11	1.97	0.47
8:D8:424:PHE:O	8:D8:428:GLN:HG2	2.14	0.47
8:D8:426:ASP:OD1	8:D8:427:ARG:N	2.47	0.47
8:D9:376:ARG:O	8:D9:379:SER:OG	2.23	0.47
4:DA:98:ASP:O	4:DA:105:ARG:NH2	2.37	0.47
4:DA:261:PRO:HA	3:DB:394:PHE:CE1	2.49	0.47
4:DC:208:ALA:N	4:DC:304:LYS:HZ1	2.04	0.47
3:DD:346:PRO:HG2	4:DE:394:LYS:NZ	2.29	0.47
3:DD:394:PHE:HA	3:DD:397:TRP:HZ3	1.80	0.47
4:DE:178:SER:OG	4:DE:180:ALA:O	2.33	0.47
3:DF:12:CYS:O	3:DF:16:ILE:HG12	2.15	0.47
3:DH:317:PHE:HE2	3:DH:326:VAL:HG23	1.79	0.47
4:DI:223:THR:OG1	4:DI:225:THR:OG1	2.21	0.47
4:DI:291:ILE:O	4:DI:295:CYS:N	2.41	0.47
4:DI:301:GLN:N	4:DI:301:GLN:OE1	2.48	0.47
3:DJ:152:ILE:O	3:DJ:156:ARG:HG2	2.14	0.47
4:DK:49:PHE:O	4:DK:53:PHE:N	2.45	0.47
4:DK:85:GLN:OE1	4:DK:85:GLN:N	2.33	0.47
4:DK:165:SER:C	4:DK:166:LYS:HD2	2.39	0.47
4:DK:280:LYS:HD3	4:DK:280:LYS:HA	1.61	0.47
4:DK:345:ASP:OD1	4:DK:345:ASP:N	2.47	0.47
4:DK:346:TRP:HD1	3:DL:390:ARG:HH22	1.62	0.47
3:DL:415:MET:O	3:DL:419:VAL:HG23	2.14	0.47
9:E:639:TYR:HA	9:E:642:PHE:CE2	2.49	0.47
10:E2:52:THR:HG23	10:E2:61:GLN:HE22	1.79	0.47
10:E4:89:GLU:OE1	10:E4:89:GLU:N	2.40	0.47
4:EA:5:ILE:HG22	4:EA:135:PHE:CD1	2.50	0.47
4:EA:118:VAL:O	4:EA:122:ILE:HG13	2.15	0.47
4:EA:229:ARG:NH1	4:EA:366:GLY:HA2	2.30	0.47
4:EA:318:LEU:O	4:EA:375:VAL:HA	2.15	0.47
4:EC:107:HIS:CD2	4:EC:152:LEU:HB2	2.50	0.47
4:EC:292:THR:HA	4:EC:295:CYS:SG	2.55	0.47
3:ED:6:HIS:HD2	3:ED:134:GLN:HG2	1.78	0.47
3:ED:375:GLN:HA	3:ED:378:PHE:CZ	2.49	0.47
4:EE:320:ARG:HG2	4:EE:358:GLN:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EG:264:ARG:O	4:EG:266:HIS:ND1	2.46	0.47
3:EH:11:GLN:O	3:EH:15:GLN:NE2	2.48	0.47
3:EH:317:PHE:HB3	3:EH:321:MET:CE	2.44	0.47
4:EI:154:MET:HA	4:EI:157:LEU:HG	1.97	0.47
4:EI:165:SER:C	4:EI:166:LYS:HD2	2.40	0.47
4:EI:185:TYR:HA	4:EI:395:PHE:HE1	1.78	0.47
4:EI:420:GLU:HA	4:EI:423:GLU:OE2	2.14	0.47
3:EJ:8:GLN:HG2	3:EJ:65:LEU:HA	1.96	0.47
3:EJ:87:PRO:HA	3:EJ:90:PHE:CD2	2.50	0.47
3:EJ:218:THR:OG1	3:EJ:219:THR:N	2.48	0.47
3:EJ:323:MET:SD	3:EJ:323:MET:N	2.86	0.47
4:EK:105:ARG:O	4:EK:109:THR:OG1	2.23	0.47
4:EK:133:GLN:O	4:EK:164:LYS:HB2	2.14	0.47
4:EK:192:HIS:CE1	4:EK:193:THR:HG23	2.49	0.47
3:EL:52:ASN:OD1	3:EL:62:ARG:NH1	2.48	0.47
3:EL:216:LYS:HB3	3:EL:276:ARG:CZ	2.44	0.47
11:F2:159:GLU:HA	11:F2:162:ARG:HH21	1.80	0.47
11:F2:301:ASN:O	11:F2:305:ARG:HG2	2.15	0.47
11:F2:339:THR:HG22	11:F2:343:PHE:CZ	2.49	0.47
11:F2:428:GLN:HA	11:F2:431:LYS:HG2	1.96	0.47
11:F3:365:LEU:HG	11:F3:448:LYS:NZ	2.29	0.47
11:F6:197:ASN:HB3	11:F6:468:LYS:HG3	1.96	0.47
11:F7:155:GLU:O	11:F7:159:GLU:HG2	2.15	0.47
11:F8:373:ASN:HA	11:Fi:305:ARG:HH22	1.80	0.47
11:F8:376:MET:HG3	11:F8:380:ARG:HE	1.80	0.47
11:F8:413:GLN:HG3	11:F8:414:PHE:N	2.30	0.47
11:F9:385:LYS:C	11:F9:388:PRO:HD2	2.40	0.47
11:F9:389:LEU:HD22	11:F9:427:LEU:HD11	1.96	0.47
4:FA:52:PHE:HZ	4:FA:239:THR:HB	1.80	0.47
4:FA:68:VAL:HG12	4:FA:93:ILE:HB	1.95	0.47
3:FB:52:ASN:OD1	3:FB:62:ARG:NH1	2.46	0.47
3:FB:376:GLU:H	3:FB:376:GLU:CD	2.23	0.47
4:FC:414:GLU:HG2	4:FC:417:GLU:OE1	2.15	0.47
3:FD:247:ASN:ND2	39:FE:501:GTP:O3G	2.47	0.47
3:FF:100:ASN:HB3	3:FF:103:LYS:HD3	1.96	0.47
3:FH:309:ARG:O	3:FH:371:SER:OG	2.24	0.47
3:FH:324:LYS:HD2	4:FI:221:ARG:HA	1.97	0.47
4:FI:35:GLN:HG2	4:FI:59:GLY:O	2.15	0.47
4:FI:319:TYR:HB2	4:FI:355:ILE:HD13	1.95	0.47
3:FJ:81:PHE:O	3:FJ:84:ILE:HG22	2.15	0.47
3:FJ:209:ASP:O	3:FJ:213:ARG:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FJ:218:THR:OG1	3:FJ:219:THR:N	2.47	0.47
4:FK:5:ILE:HB	4:FK:135:PHE:HD1	1.80	0.47
4:FK:287:SER:OG	4:FK:290:GLU:OE1	2.30	0.47
3:FL:206:ALA:O	3:FL:210:ILE:HG12	2.15	0.47
11:Fa:124:MET:SD	11:Fa:125:GLN:NE2	2.73	0.47
11:Fa:225:CYS:O	11:Fa:229:MET:HG2	2.15	0.47
11:Fa:225:CYS:SG	11:Fa:328:LEU:HD13	2.55	0.47
11:Fa:373:ASN:O	11:Fa:376:MET:HG2	2.14	0.47
11:Fb:156:LEU:HD13	11:Fb:257:LYS:HE3	1.97	0.47
11:Ff:464:ILE:HG23	11:Ff:468:LYS:HE2	1.96	0.47
11:Fi:149:LEU:HA	11:Fi:152:TRP:CE3	2.50	0.47
11:Fj:244:ARG:HG3	11:Fj:248:HIS:CE1	2.49	0.47
11:Fk:175:ARG:O	11:Fk:178:GLU:HG3	2.15	0.47
11:Fl:195:LEU:HD12	11:Fl:215:LEU:HD21	1.96	0.47
11:Fl:319:GLU:C	11:Fl:323:HIS:HD1	2.19	0.47
11:Fm:133:GLN:O	11:Fm:137:GLY:N	2.46	0.47
11:Fm:194:CYS:O	11:Fm:198:ARG:HG2	2.15	0.47
11:Fm:440:THR:HA	11:Fm:443:LEU:HD12	1.97	0.47
12:G:451:LEU:O	12:G:454:GLN:NE2	2.48	0.47
13:G1:80:ALA:HB3	13:G1:84:GLU:H	1.79	0.47
13:G2:303:GLU:OE1	13:G2:303:GLU:N	2.47	0.47
13:G2:438:PHE:CE1	13:G2:453:GLU:HB2	2.50	0.47
14:G4:48:LEU:HB2	14:G4:51:GLN:HB2	1.97	0.47
14:G4:75:ASP:N	14:G4:77:GLN:OE1	2.48	0.47
14:G4:114:GLN:HB2	14:G4:133:ARG:HB2	1.97	0.47
14:G4:558:LYS:O	14:G4:562:ILE:N	2.37	0.47
14:G4:677:LEU:HD13	14:G4:693:PHE:HZ	1.80	0.47
14:G5:178:LEU:HD12	14:G5:183:ILE:HB	1.96	0.47
14:G6:42:GLY:H	14:G6:46:ASP:H	1.61	0.47
14:G6:462:THR:OG1	14:G6:483:ARG:NH1	2.48	0.47
14:G6:467:GLU:HB3	14:G6:478:GLY:H	1.79	0.47
3:GB:28:HIS:ND1	3:GB:43:GLN:HB2	2.29	0.47
3:GB:309:ARG:O	3:GB:371:SER:OG	2.24	0.47
4:GC:405:VAL:O	4:GC:409:VAL:HG22	2.15	0.47
3:GD:379:LYS:O	3:GD:382:SER:OG	2.19	0.47
3:GF:197:ASP:OD1	3:GF:198:GLU:N	2.48	0.47
3:GF:323:MET:HE1	4:GG:223:THR:HA	1.97	0.47
3:GF:374:ILE:HD13	3:GF:422:TYR:HE2	1.78	0.47
4:GG:28:HIS:HB2	4:GG:30:ILE:HG12	1.96	0.47
4:GG:414:GLU:HG2	4:GG:417:GLU:OE1	2.14	0.47
3:GH:47:ILE:HG13	3:GH:51:TYR:HB2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GH:350:LYS:HE3	4:GI:180:ALA:HA	1.97	0.47
4:GI:54:SER:N	4:GI:62:VAL:O	2.48	0.47
4:GI:324:VAL:HG21	3:GJ:219:THR:HG22	1.96	0.47
4:GI:397:LEU:O	4:GI:401:LYS:HE2	2.15	0.47
3:GJ:132:GLY:HA3	3:GJ:163:ILE:H	1.79	0.47
3:GJ:206:ALA:O	3:GJ:210:ILE:HG12	2.14	0.47
3:GJ:361:LEU:HD22	25:N:37:PHE:HB3	1.96	0.47
3:GL:19:LYS:HD2	3:GL:22:GLU:OE2	2.14	0.47
3:GL:36:TYR:CE2	3:GL:38:GLY:HA2	2.50	0.47
12:H:458:GLN:O	12:H:462:ARG:N	2.38	0.47
15:H1:38:THR:OG1	15:H1:39:THR:N	2.47	0.47
3:HB:4:ILE:HD11	3:HB:131:GLN:HB3	1.96	0.47
3:HB:130:LEU:HB2	3:HB:162:ARG:NH1	2.30	0.47
3:HB:286:VAL:HG22	3:HB:321:MET:HE1	1.95	0.47
3:HD:39:ASP:OD1	3:HD:39:ASP:N	2.45	0.47
4:HE:6:SER:HA	4:HE:136:LEU:HB2	1.96	0.47
4:HE:67:PHE:HB2	4:HE:92:LEU:HD13	1.97	0.47
4:HE:79:ARG:NH2	4:HE:89:PRO:O	2.48	0.47
4:HE:145:THR:HG23	39:HE:501:GTP:O3B	2.15	0.47
4:HE:390:ARG:HA	4:HE:393:HIS:CD2	2.50	0.47
3:HF:346:PRO:HD2	4:HG:398:MET:HE1	1.96	0.47
3:HF:418:LEU:HA	3:HF:421:GLU:HB3	1.96	0.47
4:HG:301:GLN:OE1	4:HG:301:GLN:N	2.47	0.47
4:HI:139:HIS:CD2	4:HI:170:ALA:HB2	2.48	0.47
4:HI:213:CYS:SG	4:HI:219:ILE:HB	2.55	0.47
4:HI:274:PRO:HG3	4:HI:374:ALA:HA	1.97	0.47
4:HI:363:VAL:HG12	4:HI:368:LEU:HD22	1.97	0.47
3:HJ:31:ASP:OD2	3:HJ:35:THR:OG1	2.32	0.47
3:HJ:218:THR:OG1	3:HJ:219:THR:N	2.48	0.47
4:HK:75:VAL:HA	4:HK:78:VAL:HG22	1.97	0.47
4:HK:165:SER:C	4:HK:166:LYS:HD2	2.39	0.47
4:HK:216:ASN:OD1	4:HK:217:LEU:N	2.47	0.47
4:HK:274:PRO:HG3	4:HK:374:ALA:HA	1.97	0.47
3:HL:32:PRO:O	3:HL:83:GLN:NE2	2.38	0.47
3:HL:101:TRP:HB2	3:HL:184:ASN:ND2	2.29	0.47
3:HL:189:VAL:HA	3:HL:192:LEU:HD12	1.96	0.47
4:IA:50:ASN:OD1	4:IA:51:THR:N	2.48	0.47
4:IA:70:LEU:HD11	4:IA:110:ILE:HG12	1.95	0.47
4:IA:363:VAL:H	4:IA:368:LEU:HD21	1.80	0.47
3:IB:3:GLU:HG2	3:IB:130:LEU:HD13	1.96	0.47
3:IB:40:SER:HB2	3:IB:43:GLN:HG2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IB:65:LEU:HD21	3:IB:73:MET:HG2	1.96	0.47
3:IB:345:ILE:HD12	3:IB:346:PRO:HD2	1.97	0.47
4:IC:390:ARG:HA	4:IC:393:HIS:CD2	2.50	0.47
4:IE:9:VAL:HG21	4:IE:150:ALA:HB2	1.95	0.47
4:IE:47:ASP:HB3	4:IE:49:PHE:CE2	2.49	0.47
3:IF:113:VAL:HA	3:IF:116:VAL:HG22	1.96	0.47
4:IG:324:VAL:HG11	3:IH:219:THR:HB	1.97	0.47
3:IH:82:GLY:HA2	3:IH:85:PHE:CD2	2.48	0.47
3:IH:152:ILE:O	3:IH:156:ARG:HG2	2.15	0.47
3:IH:374:ILE:HG23	3:IH:377:LEU:HD12	1.96	0.47
4:II:188:ILE:HA	4:II:191:THR:OG1	2.14	0.47
3:IJ:130:LEU:H	3:IJ:162:ARG:NH1	2.12	0.47
3:IJ:150:LEU:O	3:IJ:153:SER:OG	2.27	0.47
4:IK:75:VAL:HG22	4:IK:79:ARG:HH21	1.79	0.47
4:IK:319:TYR:N	4:IK:354:GLY:O	2.47	0.47
4:IK:433:GLU:O	4:IK:437:VAL:N	2.41	0.47
3:IL:173:PRO:HB3	3:IL:380:ARG:NH1	2.29	0.47
3:IL:258:VAL:HG23	3:IL:263:LEU:HB2	1.96	0.47
19:J1:177:ASN:C	19:J1:181:LYS:HZ3	2.23	0.47
19:J3:92:HIS:CE1	19:J3:123:TYR:HD2	2.33	0.47
4:JA:223:THR:OG1	4:JA:225:THR:OG1	2.22	0.47
4:JA:234:ILE:O	4:JA:237:SER:OG	2.28	0.47
4:JA:254:GLU:OE1	4:JA:254:GLU:N	2.39	0.47
4:JC:69:ASP:N	4:JC:93:ILE:O	2.47	0.47
4:JC:254:GLU:OE1	4:JC:254:GLU:N	2.43	0.47
4:JC:262:TYR:OH	3:JD:391:ARG:O	2.33	0.47
4:JC:274:PRO:HG3	4:JC:374:ALA:HA	1.97	0.47
3:JD:114:ASP:OD1	3:JD:115:SER:N	2.47	0.47
3:JD:118:ASP:OD1	3:JD:121:ARG:NH1	2.48	0.47
3:JD:272:PRO:HA	3:JD:292:GLN:OE1	2.14	0.47
4:JE:165:SER:C	4:JE:166:LYS:HD2	2.40	0.47
4:JE:324:VAL:HG11	3:JF:219:THR:HB	1.97	0.47
4:JE:392:ASP:OD1	4:JE:393:HIS:N	2.47	0.47
3:JF:11:GLN:HG3	39:JF:501:GTP:PA	2.54	0.47
3:JF:117:LEU:HA	3:JF:120:VAL:HG12	1.97	0.47
3:JF:313:VAL:HG23	3:JF:349:VAL:HA	1.97	0.47
4:JG:205:ASP:OD2	4:JG:304:LYS:NZ	2.35	0.47
3:JH:32:PRO:C	3:JH:83:GLN:HE21	2.22	0.47
3:JH:206:ALA:O	3:JH:210:ILE:HG12	2.14	0.47
3:JH:218:THR:OG1	3:JH:219:THR:N	2.46	0.47
3:JH:290:THR:HG21	3:JH:329:GLN:NE2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JH:379:LYS:O	3:JH:382:SER:OG	2.20	0.47
4:JI:145:THR:HG1	39:JI:501:GTP:PB	2.36	0.47
3:JJ:1:MET:HE1	3:JJ:49:VAL:HA	1.96	0.47
3:JJ:250:LEU:O	3:JJ:254:ALA:N	2.36	0.47
3:JJ:261:PRO:HD3	4:JK:406:HIS:CG	2.50	0.47
3:JJ:323:MET:SD	3:JJ:323:MET:N	2.86	0.47
4:JK:287:SER:OG	4:JK:290:GLU:OE1	2.25	0.47
3:JL:77:ARG:O	3:JL:77:ARG:NH1	2.36	0.47
21:K2:194:LYS:NZ	21:K3:16:VAL:HA	2.30	0.47
21:K2:332:VAL:O	21:K2:335:SER:OG	2.23	0.47
21:K2:382:LEU:O	4:LE:339:ARG:NH2	2.47	0.47
21:K2:458:TYR:O	21:K2:462:ARG:HG3	2.15	0.47
21:K2:483:ASP:N	21:K2:483:ASP:OD1	2.45	0.47
21:K3:375:ARG:NH2	21:K3:426:ASN:HB2	2.28	0.47
21:K3:386:ASN:HD21	4:KI:163:LYS:HB3	1.79	0.47
21:K4:108:ARG:HB3	21:K4:109:LEU:H	1.59	0.47
21:K4:185:ARG:HA	21:K4:185:ARG:HD2	1.63	0.47
21:K4:378:ILE:HD12	21:K4:419:THR:HA	1.97	0.47
4:KA:8:HIS:CD2	4:KA:17:GLY:HA3	2.50	0.47
4:KA:16:ILE:HG22	4:KA:228:ASN:OD1	2.14	0.47
4:KA:165:SER:C	4:KA:166:LYS:HD2	2.39	0.47
4:KC:5:ILE:HD13	4:KC:64:ARG:HB3	1.97	0.47
4:KE:11:GLN:O	4:KE:14:VAL:HG22	2.15	0.47
4:KE:154:MET:HE3	4:KE:194:THR:HG22	1.97	0.47
4:KE:362:VAL:HA	4:KE:368:LEU:HD21	1.97	0.47
4:KE:415:GLU:HA	4:KE:418:PHE:HD2	1.78	0.47
3:KF:58:LYS:HE2	3:LF:281:TYR:CE1	2.49	0.47
3:KF:211:CYS:SG	3:KF:220:PRO:HG3	2.54	0.47
3:KF:238:THR:HB	3:KF:242:PHE:HD2	1.79	0.47
3:KF:239:CYS:SG	3:KF:316:VAL:HG11	2.55	0.47
4:KG:21:TRP:HD1	4:KG:53:PHE:HE1	1.61	0.47
4:KG:148:GLY:O	4:KG:151:SER:OG	2.26	0.47
4:KG:392:ASP:OD1	4:KG:393:HIS:N	2.47	0.47
3:KH:249:ASP:O	3:KH:252:LYS:HB3	2.14	0.47
3:KH:271:ALA:HB1	3:KH:272:PRO:HD2	1.95	0.47
4:KI:324:VAL:HG21	3:KJ:219:THR:HG22	1.96	0.47
3:KJ:51:TYR:CD1	3:KJ:61:PRO:HA	2.50	0.47
4:KK:104:ALA:HA	4:KK:107:HIS:HB3	1.96	0.47
4:KK:429:GLU:O	4:KK:433:GLU:HG2	2.13	0.47
3:KL:36:TYR:CE2	3:KL:38:GLY:HA2	2.50	0.47
22:L2:211:PHE:HE2	22:L2:234:MET:HG3	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:L3:128:LYS:HE2	4:MK:214:ARG:HG2	1.96	0.47
22:L3:141:LEU:C	22:L3:142:PHE:HD1	2.22	0.47
22:L3:157:TYR:O	22:L3:160:LYS:HG3	2.14	0.47
22:L4:27:TYR:C	22:L4:29:SER:H	2.22	0.47
4:LA:9:VAL:HA	4:LA:68:VAL:HG23	1.96	0.47
4:LA:201:ALA:HB3	4:LA:267:PHE:CE1	2.50	0.47
4:LA:244:PHE:HA	32:S:420:LYS:NZ	2.30	0.47
4:LA:285:GLN:HE22	4:LA:287:SER:HB3	1.78	0.47
4:LA:306:ASP:OD2	4:LA:309:HIS:N	2.48	0.47
4:LA:420:GLU:HA	4:LA:423:GLU:OE2	2.14	0.47
3:LB:324:LYS:HD2	4:LC:221:ARG:HA	1.97	0.47
3:LB:375:GLN:HA	3:LB:378:PHE:CZ	2.49	0.47
4:LC:104:ALA:O	4:LC:108:TYR:N	2.43	0.47
4:LC:161:TYR:CD1	28:O1:22:TRP:HB2	2.50	0.47
4:LC:201:ALA:H	4:LC:266:HIS:HD2	1.61	0.47
4:LC:243:ARG:HG2	4:LC:244:PHE:CD2	2.50	0.47
3:LD:11:GLN:HG3	39:LD:501:GTP:PA	2.55	0.47
3:LD:33:THR:O	3:LD:58:LYS:NZ	2.47	0.47
3:LD:66:VAL:HA	3:LD:91:VAL:O	2.14	0.47
3:LD:253:LEU:O	3:LD:257:MET:HG2	2.14	0.47
3:LF:52:ASN:CG	3:LF:62:ARG:HD3	2.39	0.47
3:LF:192:LEU:O	3:LF:196:THR:HG22	2.15	0.47
3:LF:376:GLU:H	3:LF:376:GLU:CD	2.21	0.47
4:LG:263:PRO:HB2	4:LG:264:ARG:NH1	2.30	0.47
4:LG:318:LEU:O	4:LG:375:VAL:HA	2.15	0.47
3:LH:11:GLN:HA	3:LH:14:ASN:ND2	2.30	0.47
3:LH:72:THR:O	3:LH:75:SER:OG	2.28	0.47
3:LJ:299:MET:SD	3:LJ:304:ASP:HA	2.54	0.47
3:LJ:302:ALA:HB1	3:LJ:377:LEU:HD21	1.96	0.47
4:LK:208:ALA:N	4:LK:304:LYS:HZ1	2.09	0.47
4:LK:211:ASP:O	4:LK:214:ARG:NH1	2.47	0.47
23:M:113:ASN:O	23:M:117:ARG:NE	2.46	0.47
24:M2:49:GLN:NE2	24:M2:94:GLU:OE2	2.48	0.47
24:M2:64:MET:SD	24:M2:64:MET:N	2.85	0.47
24:M3:44:ARG:HH22	24:M3:96:LEU:HD12	1.79	0.47
3:MB:12:CYS:SG	3:MB:13:GLY:N	2.88	0.47
3:MB:224:ASP:O	3:MB:228:LEU:HG	2.14	0.47
4:MC:340:THR:HG23	28:O1:107:ASN:HD21	1.78	0.47
3:MD:135:LEU:HD12	3:MD:166:THR:HG22	1.96	0.47
3:MD:304:ASP:HB3	28:O1:9:GLN:CD	2.39	0.47
3:MD:318:ARG:HD3	3:MD:358:PRO:HG3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ME:172:TYR:HB2	4:ME:203:MET:HB3	1.97	0.47
4:ME:311:LYS:C	4:ME:381:THR:HG1	2.22	0.47
3:MF:106:TYR:HB2	3:MF:401:GLU:OE2	2.15	0.47
3:MF:295:ASP:HB2	3:MF:298:ASN:HB2	1.96	0.47
4:MG:319:TYR:HB2	4:MG:355:ILE:HD13	1.96	0.47
3:MH:166:THR:OG1	3:MH:198:GLU:O	2.31	0.47
3:MH:178:THR:HB	3:MH:181:GLU:HB2	1.95	0.47
3:MH:190:HIS:NE2	3:MH:414:ASN:OD1	2.48	0.47
3:MH:213:ARG:NH1	3:MH:297:LYS:HB3	2.30	0.47
3:MH:247:ASN:HB3	3:MH:252:LYS:HG2	1.96	0.47
3:MH:324:LYS:NZ	4:MI:222:PRO:O	2.23	0.47
3:MH:409:THR:OG1	30:Q2:1419:ARG:NH2	2.47	0.47
4:MI:402:ARG:HB2	4:MI:405:VAL:HG11	1.95	0.47
3:MJ:217:LEU:HD11	3:MJ:220:PRO:HB3	1.97	0.47
3:MJ:245:GLN:HG2	4:MK:11:GLN:HE22	1.79	0.47
4:MK:115:VAL:O	4:MK:119:LEU:N	2.38	0.47
4:MK:210:TYR:CE1	4:MK:214:ARG:HD2	2.50	0.47
4:MK:224:TYR:HA	4:MK:227:LEU:HB2	1.96	0.47
4:MK:301:GLN:OE1	4:MK:301:GLN:N	2.48	0.47
3:ML:134:GLN:HG2	3:ML:167:PHE:CE2	2.49	0.47
3:ML:141:GLY:HA3	39:ML:501:GTP:H5"	1.97	0.47
4:MM:9:VAL:HA	4:MM:68:VAL:HG23	1.95	0.47
4:MM:70:LEU:HG	4:MM:149:PHE:CZ	2.50	0.47
4:MM:402:ARG:HB2	4:MM:405:VAL:HG11	1.97	0.47
4:NA:21:TRP:HD1	4:NA:67:PHE:HZ	1.61	0.47
4:NA:154:MET:HE1	4:NA:197:HIS:HB2	1.97	0.47
4:NA:271:THR:HB	4:NA:377:MET:HB2	1.97	0.47
3:NB:130:LEU:HB2	3:NB:162:ARG:HH11	1.80	0.47
4:NC:345:ASP:OD1	4:NC:345:ASP:N	2.47	0.47
3:ND:315:ALA:HA	3:ND:367:PHE:HA	1.96	0.47
4:NE:90:GLU:HG2	4:NE:121:ARG:CZ	2.45	0.47
4:NE:141:PHE:HB2	4:NE:173:PRO:HD3	1.97	0.47
3:NF:141:GLY:HA3	39:NF:501:GTP:H5"	1.96	0.47
3:NF:257:MET:O	3:NF:259:PRO:HD3	2.15	0.47
4:NG:178:SER:OG	4:NG:180:ALA:O	2.33	0.47
4:NG:187:SER:O	4:NG:190:THR:OG1	2.27	0.47
4:NG:192:HIS:CE1	4:NG:193:THR:HG23	2.49	0.47
3:NH:204:ASN:OD1	3:NH:205:GLU:N	2.48	0.47
4:NI:7:ILE:N	4:NI:136:LEU:O	2.37	0.47
4:NI:12:ALA:HB1	39:NI:501:GTP:C4	2.50	0.47
4:NK:104:ALA:O	4:NK:108:TYR:N	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NL:3:GLU:OE2	3:NL:129:CYS:N	2.48	0.47
4:OA:28:HIS:HB2	4:OA:30:ILE:HG12	1.96	0.47
3:OB:141:GLY:HA3	39:OB:501:GTP:H5"	1.97	0.47
3:OB:228:LEU:O	3:OB:232:THR:HG23	2.15	0.47
4:OC:272:TYR:CZ	4:OC:274:PRO:HG2	2.49	0.47
3:OD:77:ARG:HD3	3:OD:90:PHE:HE2	1.79	0.47
3:OD:295:ASP:HB2	3:OD:298:ASN:HB2	1.97	0.47
4:OE:141:PHE:HB2	4:OE:173:PRO:HD3	1.96	0.47
3:OF:118:ASP:HA	3:OF:121:ARG:HG2	1.97	0.47
4:OG:186:ASN:OD1	4:OG:187:SER:N	2.48	0.47
3:OH:120:VAL:O	3:OH:124:ALA:N	2.41	0.47
4:OI:122:ILE:O	4:OI:126:ALA:N	2.45	0.47
4:OK:280:LYS:O	4:OK:284:GLU:HB2	2.14	0.47
3:OL:37:HIS:HA	37:YW:64:ARG:NH2	2.30	0.47
3:OL:109:GLY:O	3:OL:113:VAL:HG13	2.14	0.47
3:OL:385:PHE:HA	3:OL:388:MET:HE2	1.96	0.47
27:P:164:LEU:HA	27:P:167:HIS:ND1	2.29	0.47
27:P:355:GLN:O	27:P:359:ALA:N	2.47	0.47
29:P1:121:PRO:HG3	29:P1:167:SER:O	2.14	0.47
29:P1:164:VAL:HG23	29:P1:176:THR:HG22	1.97	0.47
29:P2:50:GLN:HE21	29:P2:57:GLN:HG2	1.78	0.47
29:P2:211:THR:HG22	29:P2:222:LEU:HD22	1.96	0.47
29:P2:296:ILE:HG12	29:P2:307:VAL:HG12	1.96	0.47
29:P2:336:GLN:HA	29:P2:591:MET:SD	2.55	0.47
29:P2:437:GLY:HA2	29:P2:463:SER:HA	1.97	0.47
3:PB:268:PRO:HD2	3:PB:301:ALA:HB2	1.97	0.47
3:PB:350:LYS:HE3	4:PC:181:VAL:H	1.78	0.47
4:PC:408:TYR:CD2	4:PC:418:PHE:HZ	2.33	0.47
3:PD:106:TYR:HB2	3:PD:401:GLU:OE2	2.15	0.47
3:PD:152:ILE:HD12	3:PD:195:ASN:HB2	1.95	0.47
3:PD:170:VAL:N	3:PD:202:ILE:O	2.35	0.47
3:PD:197:ASP:OD1	3:PD:198:GLU:N	2.47	0.47
3:PD:262:ARG:HD2	3:PD:421:GLU:HG3	1.96	0.47
3:PD:324:LYS:HE2	4:PE:222:PRO:CD	2.45	0.47
3:PD:347:ASN:HB3	4:PE:178:SER:HB3	1.97	0.47
4:PG:316:CYS:HB3	4:PG:378:LEU:HB2	1.97	0.47
4:PI:10:GLY:O	4:PI:14:VAL:HG13	2.14	0.47
3:PJ:11:GLN:HG3	39:PJ:501:GTP:PA	2.54	0.47
4:PK:260:VAL:O	3:PL:397:TRP:HH2	1.97	0.47
3:PL:155:ILE:HA	3:PL:158:GLU:HB2	1.95	0.47
4:PM:1:MET:SD	4:PM:2:ARG:N	2.87	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:PM:216:ASN:HD21	4:PM:275:VAL:HG23	1.79	0.47
27:Q:19:ARG:NH1	27:Q:20:TYR:HB2	2.30	0.47
27:Q:170:ARG:HG3	27:Q:174:ARG:NH2	2.29	0.47
30:Q1:1340:TRP:CZ2	30:Q1:1444:GLN:HB3	2.50	0.47
30:Q2:1359:SER:HA	30:Q2:1393:LYS:HA	1.97	0.47
30:Q2:1397:CYS:SG	30:Q2:1434:PRO:HG2	2.55	0.47
30:Q2:1437:TYR:CZ	30:Q2:1496:TYR:HB2	2.50	0.47
4:QC:188:ILE:HG12	4:QC:421:ALA:HB1	1.95	0.47
3:QD:295:ASP:HB2	3:QD:298:ASN:HB2	1.96	0.47
3:QF:376:GLU:O	3:QF:380:ARG:HG3	2.15	0.47
4:QG:2:ARG:HA	4:QG:133:GLN:NE2	2.29	0.47
3:QH:41:ASP:N	3:QH:41:ASP:OD1	2.47	0.47
3:QH:47:ILE:HG12	3:QH:59:TYR:CD2	2.50	0.47
3:QH:190:HIS:ND1	3:QH:411:ALA:HA	2.30	0.47
4:QI:185:TYR:HA	4:QI:395:PHE:HE1	1.80	0.47
4:QI:280:LYS:O	4:QI:284:GLU:HB2	2.14	0.47
3:QJ:39:ASP:OD1	3:QJ:39:ASP:N	2.47	0.47
3:QJ:292:GLN:HA	3:QJ:295:ASP:OD2	2.15	0.47
4:QK:28:HIS:HB2	4:QK:30:ILE:HG12	1.95	0.47
4:QK:163:LYS:HA	4:QK:163:LYS:HD3	1.77	0.47
3:QL:290:THR:HG21	3:QL:329:GLN:HB3	1.96	0.47
4:QM:22:GLU:O	4:QM:26:LEU:HD23	2.15	0.47
4:QM:79:ARG:HH22	4:QM:94:THR:HB	1.80	0.47
4:QM:255:PHE:O	4:QM:259:LEU:HB2	2.15	0.47
31:R1:119:ASN:O	31:R1:123:MET:N	2.40	0.47
31:R1:251:PHE:HD2	31:R1:257:ARG:HG2	1.80	0.47
3:RB:19:LYS:NZ	3:RB:223:GLY:O	2.47	0.47
4:RC:116:ASP:N	4:RC:116:ASP:OD1	2.46	0.47
4:RC:119:LEU:HB3	4:RC:123:ARG:NH2	2.30	0.47
3:RD:6:HIS:HB3	3:RD:21:TRP:HZ2	1.80	0.47
3:RD:289:LEU:O	3:RD:293:MET:HG2	2.15	0.47
3:RD:317:PHE:HB3	3:RD:321:MET:HE3	1.96	0.47
4:RE:11:GLN:O	4:RE:14:VAL:HG22	2.14	0.47
3:RF:31:ASP:OD2	3:RF:35:THR:OG1	2.33	0.47
4:RG:274:PRO:HG3	4:RG:374:ALA:HA	1.96	0.47
4:RG:433:GLU:O	4:RG:437:VAL:N	2.40	0.47
4:RI:141:PHE:HE2	4:RI:203:MET:HG3	1.80	0.47
4:RI:155:GLU:O	4:RI:158:SER:OG	2.24	0.47
4:RI:332:ILE:HA	4:RI:335:ILE:HD13	1.96	0.47
3:RJ:3:GLU:OE2	3:RJ:127:CYS:HB3	2.14	0.47
3:RJ:289:LEU:O	3:RJ:293:MET:HG2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:RK:2:ARG:HA	4:RK:133:GLN:HE22	1.79	0.47
4:RK:28:HIS:HB2	4:RK:30:ILE:HG12	1.96	0.47
4:RK:47:ASP:HB3	4:RK:49:PHE:CE2	2.50	0.47
4:RK:260:VAL:HG23	4:RK:265:ILE:O	2.15	0.47
4:RK:273:ALA:HB2	4:RK:295:CYS:HB3	1.96	0.47
4:RK:319:TYR:HE2	4:RK:328:VAL:HG13	1.80	0.47
3:RL:12:CYS:SG	3:RL:13:GLY:N	2.88	0.47
4:RM:175:PRO:HA	4:RM:390:ARG:CZ	2.44	0.47
3:SB:194:GLU:OE1	3:SB:195:ASN:ND2	2.47	0.47
4:SC:57:GLY:C	36:Y:205:ARG:HH21	2.22	0.47
4:SC:105:ARG:O	4:SC:109:THR:OG1	2.21	0.47
4:SC:216:ASN:HB2	4:SC:276:ILE:HD12	1.96	0.47
3:SD:11:GLN:HG3	39:SD:501:GTP:PA	2.55	0.47
3:SD:12:CYS:SG	3:SD:13:GLY:N	2.87	0.47
3:SD:199:THR:N	3:SD:264:HIS:O	2.48	0.47
4:SE:9:VAL:HG23	4:SE:149:PHE:HD2	1.80	0.47
4:SE:88:HIS:HE1	4:SE:90:GLU:OE2	1.98	0.47
3:SF:72:THR:O	3:SF:75:SER:OG	2.28	0.47
3:SF:309:ARG:N	3:SF:372:THR:OG1	2.24	0.47
4:SG:10:GLY:O	4:SG:14:VAL:HG13	2.14	0.47
4:SG:70:LEU:HB2	4:SG:145:THR:HG21	1.97	0.47
4:SG:88:HIS:HB3	4:SG:91:GLN:HB2	1.97	0.47
4:SG:91:GLN:HG3	4:SG:121:ARG:HH21	1.79	0.47
4:SG:245:ASP:O	4:SG:356:ASN:ND2	2.48	0.47
4:SI:306:ASP:HB3	4:SI:309:HIS:HD1	1.79	0.47
4:SI:386:GLU:HA	4:SI:389:ALA:HB3	1.96	0.47
3:SJ:386:THR:O	3:SJ:390:ARG:HB2	2.15	0.47
4:SM:2:ARG:HA	4:SM:133:GLN:NE2	2.30	0.47
3:TB:42:LEU:HD12	3:TB:243:PRO:HD2	1.96	0.47
4:TC:46:ASP:HA	4:TC:50:ASN:HB3	1.96	0.47
3:TD:317:PHE:HB3	3:TD:321:MET:HE3	1.96	0.47
4:TE:6:SER:HB3	4:TE:65:ALA:HB2	1.95	0.47
4:TE:165:SER:C	4:TE:166:LYS:HD2	2.39	0.47
3:TF:65:LEU:HD22	3:TF:90:PHE:CE1	2.50	0.47
3:TF:318:ARG:HD3	3:TF:358:PRO:HG3	1.95	0.47
4:TG:207:GLU:HB2	4:TG:304:LYS:NZ	2.27	0.47
3:TL:2:ARG:HA	3:TL:129:CYS:O	2.15	0.47
3:TL:16:ILE:O	3:TL:19:LYS:N	2.47	0.47
3:TL:77:ARG:O	3:TL:77:ARG:NH1	2.40	0.47
3:TL:91:VAL:HG11	3:TL:116:VAL:HG12	1.97	0.47
3:TL:137:HIS:O	3:TL:168:SER:HA	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:TM:68:VAL:HG12	4:TM:93:ILE:HB	1.96	0.47
3:TN:66:VAL:HA	3:TN:91:VAL:O	2.15	0.47
3:TN:166:THR:OG1	3:TN:198:GLU:O	2.22	0.47
3:TN:176:SER:O	3:TN:178:THR:N	2.47	0.47
3:TN:282:ARG:HE	3:TN:288:GLU:CD	2.22	0.47
3:TN:299:MET:SD	3:TN:304:ASP:HA	2.55	0.47
3:TN:375:GLN:HA	3:TN:378:PHE:CZ	2.50	0.47
4:UA:89:PRO:HD2	4:VA:280:LYS:NZ	2.29	0.47
4:UA:154:MET:HE2	4:UA:194:THR:HG22	1.96	0.47
4:UA:271:THR:HB	4:UA:377:MET:HB2	1.96	0.47
3:UB:197:ASP:OD1	3:UB:198:GLU:N	2.48	0.47
3:UB:258:VAL:HB	4:UC:407:TRP:HZ2	1.79	0.47
4:UC:98:ASP:O	4:UC:105:ARG:NH2	2.28	0.47
4:UC:207:GLU:HB2	4:UC:304:LYS:HZ1	1.79	0.47
4:UC:419:SER:HA	4:UC:422:ARG:NE	2.28	0.47
3:UD:12:CYS:HB3	39:UD:501:GTP:H5'	1.95	0.47
3:UD:415:MET:O	3:UD:419:VAL:HG23	2.15	0.47
4:UE:337:THR:O	4:UE:339:ARG:NH1	2.48	0.47
3:UF:389:PHE:HZ	3:UF:405:GLU:HB2	1.79	0.47
4:UG:40:LYS:NZ	33:X:540:ARG:HB3	2.30	0.47
4:UG:98:ASP:OD1	4:UG:99:ALA:N	2.47	0.47
4:UG:413:MET:HB3	4:UG:417:GLU:OE2	2.14	0.47
3:UH:139:LEU:N	3:UH:168:SER:OG	2.47	0.47
3:UH:330:MET:HA	3:UH:333:VAL:HG12	1.96	0.47
4:UI:115:VAL:HA	4:UI:118:VAL:HG22	1.95	0.47
3:UJ:114:ASP:N	3:UJ:114:ASP:OD1	2.44	0.47
3:UJ:300:MET:SD	3:UJ:300:MET:N	2.87	0.47
4:UK:9:VAL:HA	4:UK:68:VAL:HG23	1.96	0.47
4:UK:102:ASN:HB3	4:UK:105:ARG:HB2	1.96	0.47
3:UL:21:TRP:CZ2	3:UL:63:ALA:HB2	2.49	0.47
4:VA:216:ASN:HD21	4:VA:275:VAL:HG23	1.79	0.47
4:VC:70:LEU:HB3	4:VC:97:GLU:O	2.14	0.47
3:VD:309:ARG:HH22	3:VD:344:TRP:HZ3	1.63	0.47
4:VE:1:MET:N	4:VE:130:THR:OG1	2.44	0.47
4:VE:363:VAL:HG12	4:VE:368:LEU:HD22	1.96	0.47
4:VE:405:VAL:O	4:VE:409:VAL:HG22	2.14	0.47
3:VF:1:MET:HE1	3:VF:49:VAL:HA	1.96	0.47
3:VF:130:LEU:HB2	3:VF:162:ARG:HH11	1.79	0.47
4:VI:172:TYR:N	4:VI:204:VAL:O	2.38	0.47
4:VI:216:ASN:ND2	4:VI:275:VAL:O	2.47	0.47
4:VI:423:GLU:HA	4:VI:426:ALA:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VJ:180:VAL:HG22	3:VJ:183:TYR:HB2	1.96	0.47
3:VJ:250:LEU:HD13	3:VJ:253:LEU:HD12	1.97	0.47
4:VK:47:ASP:HB3	4:VK:49:PHE:CE2	2.50	0.47
4:VK:125:LEU:HD13	4:VK:128:LEU:HD21	1.96	0.47
3:VL:284:LEU:O	3:VL:363:MET:HE1	2.14	0.47
33:W:211:ILE:HG23	33:W:214:LYS:HE3	1.97	0.47
33:W:313:ALA:O	33:W:317:ARG:HG2	2.15	0.47
4:WA:36:MET:HG3	4:WA:41:THR:OG1	2.15	0.47
39:WB:501:GTP:O3G	39:WB:501:GTP:O3'	2.22	0.47
4:WC:428:LEU:O	4:WC:432:TYR:N	2.45	0.47
4:WE:254:GLU:OE1	4:WE:254:GLU:N	2.44	0.47
3:WF:69:GLU:CD	3:WF:71:GLY:H	2.23	0.47
4:WG:1:MET:HE3	4:WG:50:ASN:HD21	1.80	0.47
4:WG:46:ASP:HA	4:WG:50:ASN:HB3	1.97	0.47
4:WG:226:ASN:HA	4:WG:229:ARG:HD2	1.97	0.47
3:WH:246:LEU:HD22	3:WH:354:CYS:HA	1.97	0.47
4:WI:12:ALA:HB1	39:WI:501:GTP:C2	2.50	0.47
4:WI:262:TYR:CE1	3:WJ:393:ALA:HA	2.50	0.47
3:WJ:17:GLY:O	3:WJ:21:TRP:N	2.42	0.47
3:WJ:77:ARG:O	3:WJ:77:ARG:NH1	2.42	0.47
3:WJ:132:GLY:HA3	3:WJ:163:ILE:H	1.80	0.47
3:WJ:257:MET:HE3	3:WJ:370:ASN:HB2	1.97	0.47
4:WK:287:SER:N	4:WK:290:GLU:OE2	2.48	0.47
3:WL:302:ALA:HB1	3:WL:377:LEU:HD11	1.97	0.47
33:X:409:ASN:HA	33:X:412:LYS:HG2	1.97	0.47
34:XC:81:LYS:HD2	34:XC:129:TRP:NE1	2.29	0.47
34:XD:39:ASP:OD1	34:XD:41:ASP:N	2.48	0.47
34:XE:33:HIS:CE1	34:XE:50:GLU:HB2	2.50	0.47
34:XG:69:LEU:HG	34:XG:153:ARG:HA	1.97	0.47
35:XI:88:ASP:OD1	35:XI:91:HIS:N	2.43	0.47
35:XJ:88:ASP:OD1	35:XJ:90:HIS:N	2.42	0.47
35:XK:207:ASP:HA	35:XK:210:GLN:HE21	1.79	0.47
35:XL:112:ARG:HD2	35:XL:151:VAL:HG11	1.97	0.47
37:YA:97:LEU:HG	37:YA:101:LYS:HE2	1.96	0.47
37:YB:33:ARG:HH22	37:YB:134:TYR:HH	1.62	0.47
37:YE:140:LEU:O	37:YE:144:VAL:HG23	2.13	0.47
37:YF:59:ASN:HB2	37:YF:62:HIS:CE1	2.50	0.47
37:YH:5:LYS:HA	37:YH:8:LEU:HD12	1.96	0.47
37:YH:22:GLN:O	37:YH:26:ILE:HG12	2.15	0.47
37:YH:67:ILE:O	37:YH:70:MET:HB2	2.14	0.47
37:YH:146:ASP:HA	37:YH:149:LYS:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:YI:26:ILE:HD12	37:YI:134:TYR:HE1	1.78	0.47
37:YK:144:VAL:HG12	37:YK:148:MET:HE2	1.97	0.47
37:YQ:63:ARG:O	37:YQ:67:ILE:HG23	2.15	0.47
37:YR:26:ILE:HD12	37:YR:134:TYR:CE1	2.49	0.47
37:YR:116:LYS:O	37:YR:119:HIS:ND1	2.47	0.47
37:YS:82:HIS:O	37:YS:86:LEU:HG	2.14	0.47
37:YS:90:THR:O	37:YS:94:ASN:N	2.28	0.47
37:YT:63:ARG:O	37:YT:67:ILE:HG23	2.15	0.47
37:YT:110:LEU:HD23	37:YT:140:LEU:HD22	1.96	0.47
2:A2:323:ARG:NH2	2:A3:184:ILE:HB	2.29	0.47
3:AB:421:GLU:HG2	3:AB:425:TYR:HE2	1.79	0.47
4:AC:154:MET:HE1	4:AC:197:HIS:HB2	1.97	0.47
4:AC:438:ASP:C	3:AD:391:ARG:HH12	2.23	0.47
4:AG:102:ASN:ND2	4:AG:411:GLU:OE2	2.44	0.47
3:AH:234:SER:O	3:AH:238:THR:HG23	2.15	0.47
3:AH:410:GLU:HA	3:AH:413:SER:HB3	1.96	0.47
4:AI:165:SER:C	4:AI:166:LYS:HD2	2.40	0.47
4:AI:214:ARG:HH21	26:N3:86:PHE:HA	1.80	0.47
3:AJ:39:ASP:OD1	3:AJ:39:ASP:N	2.47	0.47
3:AJ:309:ARG:NE	3:AJ:426:GLN:HE21	2.12	0.47
4:AM:52:PHE:HZ	4:AM:239:THR:HB	1.79	0.47
4:AM:154:MET:HA	4:AM:157:LEU:HG	1.97	0.47
4:AM:286:LEU:HD11	4:AM:372:GLN:H	1.80	0.47
5:B2:39:ARG:HB3	5:B2:40:GLN:NE2	2.29	0.47
5:B2:272:MET:C	5:B2:380:LYS:HZ1	2.23	0.47
5:B3:316:THR:HG21	5:B4:199:ILE:HB	1.97	0.47
5:B6:7:LYS:O	5:B6:11:ARG:NH1	2.47	0.47
5:B6:145:GLU:O	5:B6:149:LYS:HG2	2.15	0.47
5:B7:278:GLU:OE2	5:B7:281:TRP:HD1	1.98	0.47
5:B7:399:VAL:HG23	5:B7:402:GLU:H	1.79	0.47
5:B8:125:ASP:CG	5:B8:126:ILE:H	2.23	0.47
5:B8:213:THR:HG21	5:B9:327:VAL:HA	1.96	0.47
5:B8:258:ARG:O	5:B8:262:GLU:HG2	2.15	0.47
4:BC:67:PHE:HB2	4:BC:92:LEU:HD13	1.97	0.47
4:BC:139:HIS:CD2	4:BC:170:ALA:HB2	2.50	0.47
4:BC:285:GLN:HE22	4:BC:287:SER:HB3	1.80	0.47
3:BD:87:PRO:HB3	14:G4:304:LEU:HG	1.97	0.47
4:BE:119:LEU:HB3	4:BE:123:ARG:NH2	2.29	0.47
4:BE:318:LEU:HB2	4:BE:376:CYS:HB3	1.96	0.47
3:BH:101:TRP:O	3:BH:105:HIS:N	2.47	0.47
3:BH:261:PRO:O	3:BH:264:HIS:NE2	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BJ:309:ARG:O	3:BJ:371:SER:OG	2.22	0.47
7:C4:157:LYS:NZ	7:C4:262:GLN:HA	2.29	0.47
7:C7:403:ARG:HE	7:C7:417:GLN:NE2	2.09	0.47
7:C9:423:GLU:O	7:C9:427:VAL:HG23	2.15	0.47
4:CC:2:ARG:NH1	4:CC:241:SER:O	2.48	0.47
4:CC:8:HIS:HA	4:CC:138:PHE:HB2	1.96	0.47
3:CD:7:LEU:HD13	3:CD:64:VAL:HB	1.96	0.47
3:CD:318:ARG:C	3:CD:321:MET:HE1	2.39	0.47
3:CF:152:ILE:O	3:CF:156:ARG:HG2	2.15	0.47
3:CF:378:PHE:CD1	3:CF:419:VAL:HG22	2.49	0.47
4:CG:135:PHE:CZ	4:CG:164:LYS:HD2	2.49	0.47
3:CH:317:PHE:O	3:CH:354:CYS:N	2.36	0.47
4:CI:208:ALA:N	4:CI:304:LYS:HZ1	2.06	0.47
4:CI:219:ILE:HG22	4:CI:222:PRO:HD3	1.97	0.47
4:CI:318:LEU:O	4:CI:375:VAL:HA	2.15	0.47
4:CK:425:LEU:O	4:CK:428:LEU:N	2.47	0.47
4:CM:35:GLN:HG2	4:CM:59:GLY:O	2.14	0.47
4:CM:216:ASN:OD1	4:CM:217:LEU:N	2.48	0.47
7:Cb:285:ARG:NH2	10:E1:17:THR:H	2.13	0.47
7:Cc:410:GLU:HG3	7:Cd:264:ALA:HB2	1.97	0.47
7:Cd:220:LEU:HB2	8:D4:25:LYS:HZ2	1.80	0.47
7:Cd:308:VAL:HG12	7:Cd:312:GLN:HE22	1.80	0.47
6:D:261:CYS:O	6:D:329:ILE:N	2.46	0.47
8:D3:78:ARG:HD3	8:D4:335:GLN:NE2	2.23	0.47
8:D4:147:VAL:HG12	8:D4:151:ILE:HD11	1.96	0.47
8:D8:62:ALA:CA	11:Ff:380:ARG:HH21	2.27	0.47
8:D8:142:LEU:O	8:D8:145:THR:OG1	2.28	0.47
4:DA:50:ASN:OD1	4:DA:51:THR:N	2.48	0.47
4:DA:398:MET:O	4:DA:402:ARG:N	2.48	0.47
4:DC:81:GLY:O	4:DC:84:ARG:NH1	2.48	0.47
4:DC:427:ALA:HA	4:DC:430:LYS:HG2	1.97	0.47
4:DE:117:LEU:O	4:DE:121:ARG:HG2	2.14	0.47
4:DE:261:PRO:HA	3:DF:394:PHE:CE1	2.50	0.47
4:DK:208:ALA:H	4:DK:304:LYS:NZ	2.12	0.47
4:DK:216:ASN:HD21	4:DK:275:VAL:HG23	1.79	0.47
9:E:417:ARG:CZ	3:IB:227:HIS:HB3	2.45	0.47
9:E:792:ARG:HH22	9:E:830:CYS:C	2.23	0.47
4:EE:319:TYR:HB2	4:EE:355:ILE:HD13	1.97	0.47
3:EH:255:VAL:HG12	4:EI:407:TRP:CD2	2.50	0.47
3:EH:347:ASN:HB3	4:EI:178:SER:HB3	1.97	0.47
4:EI:208:ALA:N	4:EI:304:LYS:HZ1	2.11	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EJ:344:TRP:HE3	4:EK:401:LYS:HD2	1.80	0.47
3:EJ:378:PHE:CD1	3:EJ:419:VAL:HG22	2.49	0.47
3:EL:182:PRO:HB2	3:EL:388:MET:HE1	1.97	0.47
3:EL:270:PHE:HD2	3:EL:273:LEU:HD21	1.79	0.47
11:F1:450:ARG:HH22	11:F2:102:GLN:HG3	1.80	0.47
11:F3:342:ALA:O	11:F3:346:ARG:HD2	2.15	0.47
11:F5:145:ARG:HH12	11:F6:413:GLN:HE22	1.61	0.47
11:F6:314:SER:O	11:F6:318:ARG:HG3	2.14	0.47
4:FA:256:GLN:O	4:FA:260:VAL:HG12	2.15	0.47
4:FC:137:ILE:HB	4:FC:168:GLU:HA	1.96	0.47
3:FD:325:GLU:O	3:FD:329:GLN:HG2	2.15	0.47
3:FL:8:GLN:HG2	3:FL:65:LEU:HA	1.97	0.47
11:Fa:451:LEU:O	11:Fa:455:LEU:HD23	2.14	0.47
11:Fg:396:LEU:HG	11:Fg:399:ARG:NH1	2.29	0.47
12:G:297:GLU:H	12:G:297:GLU:CD	2.23	0.47
13:G1:26:HIS:O	13:G1:48:GLY:N	2.47	0.47
13:G1:212:TYR:HA	13:G1:215:LEU:HD12	1.96	0.47
14:G4:284:LEU:HG	14:G4:333:TYR:HD2	1.79	0.47
14:G4:488:LYS:HD3	14:G4:502:ILE:HG13	1.97	0.47
14:G5:575:LYS:HA	14:G5:734:ARG:HD2	1.96	0.47
14:G6:386:ILE:HG22	14:G6:387:GLU:N	2.29	0.47
14:G6:434:LEU:HD13	14:G6:436:TYR:CZ	2.49	0.47
3:GB:28:HIS:O	3:GB:43:GLN:NE2	2.47	0.47
3:GB:305:PRO:HB2	3:GB:310:TYR:HE1	1.80	0.47
4:GC:49:PHE:HB2	4:GC:53:PHE:HB2	1.96	0.47
4:GC:210:TYR:OH	4:GC:221:ARG:NH2	2.47	0.47
4:GC:331:ALA:O	4:GC:334:THR:OG1	2.27	0.47
4:GC:386:GLU:HA	4:GC:389:ALA:HB3	1.95	0.47
4:GE:240:ALA:HA	4:GE:243:ARG:HB3	1.97	0.47
3:GF:46:ARG:NE	3:GF:46:ARG:HA	2.30	0.47
3:GH:347:ASN:HB3	4:GI:178:SER:HB3	1.96	0.47
3:GJ:306:ARG:HH22	3:GJ:340:TYR:HE1	1.62	0.47
3:GL:101:TRP:HB2	3:GL:184:ASN:HD22	1.80	0.47
3:GL:267:MET:HE1	3:GL:299:MET:SD	2.55	0.47
4:HC:217:LEU:HD13	4:HC:277:SER:HA	1.97	0.47
4:HC:263:PRO:HB2	4:HC:264:ARG:NH1	2.29	0.47
4:HC:387:ALA:O	4:HC:391:LEU:HG	2.15	0.47
4:HE:5:ILE:O	4:HE:136:LEU:N	2.41	0.47
4:HE:429:GLU:O	4:HE:432:TYR:N	2.45	0.47
4:HG:320:ARG:HD3	4:HG:360:PRO:HG3	1.97	0.47
3:HH:226:ASN:HA	3:HH:229:VAL:HG22	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HI:168:GLU:HB2	4:HI:201:ALA:HA	1.97	0.47
3:HJ:289:LEU:HD21	3:HJ:363:MET:HB3	1.97	0.47
3:HL:4:ILE:HD11	3:HL:131:GLN:HB2	1.97	0.47
4:IA:56:THR:HG23	4:IA:58:ALA:H	1.79	0.47
4:IE:286:LEU:HD11	4:IE:372:GLN:H	1.79	0.47
3:IH:4:ILE:CD1	3:IH:131:GLN:HB2	2.45	0.47
3:IJ:249:ASP:O	3:IJ:253:LEU:HG	2.15	0.47
3:IL:40:SER:HB3	3:IL:42:LEU:HD23	1.96	0.47
3:IL:81:PHE:O	3:IL:84:ILE:HG22	2.15	0.47
4:IM:146:GLY:N	39:IM:501:GTP:O2B	2.48	0.47
19:J2:167:MET:HE3	19:J2:175:ILE:HA	1.96	0.47
19:J3:70:VAL:HG12	19:J3:72:VAL:HG13	1.97	0.47
4:JA:67:PHE:O	4:JA:93:ILE:N	2.48	0.47
4:JC:397:LEU:HB2	4:JC:398:MET:HE2	1.97	0.47
3:JD:289:LEU:O	3:JD:293:MET:N	2.40	0.47
4:JE:7:ILE:N	4:JE:136:LEU:O	2.34	0.47
4:JE:363:VAL:H	4:JE:368:LEU:HD21	1.79	0.47
3:JH:42:LEU:HD12	3:JH:243:PRO:HD2	1.95	0.47
4:JI:67:PHE:HB2	4:JI:92:LEU:HD13	1.96	0.47
3:JL:12:CYS:HB3	39:JL:501:GTP:H5'	1.97	0.47
3:JL:91:VAL:HG11	3:JL:116:VAL:HG12	1.97	0.47
21:K2:324:GLN:HA	21:K2:327:GLU:OE1	2.14	0.47
21:K3:420:ASP:O	21:K3:424:ARG:HG3	2.14	0.47
21:K3:454:HIS:O	21:K3:458:TYR:N	2.48	0.47
4:KE:196:GLU:OE1	4:KE:196:GLU:N	2.36	0.47
3:KF:175:VAL:HG22	3:KF:177:ASP:H	1.80	0.47
4:KI:165:SER:C	4:KI:166:LYS:HD2	2.40	0.47
4:KI:423:GLU:HA	4:KI:426:ALA:HB3	1.97	0.47
3:KL:399:THR:HA	3:KL:403:MET:O	2.15	0.47
22:L3:85:LYS:HD3	4:LI:264:ARG:N	2.17	0.47
22:L3:197:LEU:HD21	22:L3:244:ILE:HG21	1.96	0.47
3:LB:48:ASN:HA	3:LB:51:TYR:O	2.14	0.47
3:LB:316:VAL:HG22	3:LB:352:ALA:HB3	1.97	0.47
4:LC:389:ALA:HA	4:LC:392:ASP:OD2	2.15	0.47
3:LD:34:GLY:HA3	3:LD:58:LYS:HZ2	1.79	0.47
3:LD:166:THR:OG1	3:LD:198:GLU:O	2.25	0.47
3:LD:206:ALA:O	3:LD:210:ILE:HG12	2.15	0.47
4:LE:386:GLU:O	4:LE:390:ARG:N	2.42	0.47
3:LF:269:GLY:O	3:LF:367:PHE:N	2.35	0.47
4:LG:105:ARG:O	4:LG:109:THR:OG1	2.21	0.47
4:LI:105:ARG:O	4:LI:109:THR:OG1	2.31	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:LI:318:LEU:O	4:LI:375:VAL:HA	2.15	0.47
3:LJ:378:PHE:CD1	3:LJ:419:VAL:HG22	2.50	0.47
3:LL:152:ILE:HG13	3:LL:195:ASN:HB3	1.97	0.47
3:MD:176:SER:O	3:MD:178:THR:N	2.48	0.47
4:ME:3:GLU:CD	4:ME:132:LEU:H	2.22	0.47
4:ME:234:ILE:O	4:ME:237:SER:OG	2.32	0.47
4:ME:406:HIS:HA	4:ME:409:VAL:HG22	1.96	0.47
3:MF:73:MET:O	3:MF:77:ARG:N	2.36	0.47
4:MG:113:GLU:OE1	4:MG:113:GLU:N	2.45	0.47
4:MI:165:SER:C	4:MI:166:LYS:HD2	2.40	0.47
4:MK:133:GLN:HB3	4:MK:252:LEU:HD21	1.96	0.47
4:MK:186:ASN:OD1	4:MK:187:SER:N	2.48	0.47
4:MK:208:ALA:N	4:MK:304:LYS:HZ1	2.12	0.47
4:MK:398:MET:O	4:MK:402:ARG:N	2.48	0.47
4:MM:282:TYR:CZ	27:P:43:ALA:HB1	2.49	0.47
4:NC:399:TYR:CE1	4:NC:418:PHE:HB3	2.50	0.47
3:ND:87:PRO:HA	3:ND:90:PHE:CD2	2.50	0.47
3:NF:206:ALA:O	3:NF:210:ILE:HG12	2.14	0.47
3:NH:41:ASP:N	3:NH:41:ASP:OD1	2.47	0.47
4:NI:156:ARG:HA	4:NI:159:VAL:HG22	1.95	0.47
3:NJ:32:PRO:O	3:NJ:83:GLN:NE2	2.44	0.47
3:OB:58:LYS:HE2	3:PB:281:TYR:CE1	2.50	0.47
3:OB:214:THR:HG21	3:OB:273:LEU:HB3	1.97	0.47
4:OE:163:LYS:HA	4:OE:163:LYS:HD3	1.75	0.47
3:OF:323:MET:HE1	4:OG:224:TYR:H	1.80	0.47
4:OI:66:VAL:HA	4:OI:91:GLN:NE2	2.29	0.47
4:OI:186:ASN:HA	4:OI:189:LEU:HD12	1.95	0.47
3:OJ:344:TRP:CH2	4:OK:401:LYS:HB2	2.49	0.47
3:OL:32:PRO:O	3:OL:83:GLN:NE2	2.47	0.47
27:P:92:ARG:HD2	27:P:93:ALA:N	2.30	0.47
27:P:181:GLU:O	27:P:185:THR:N	2.42	0.47
29:P1:172:GLU:OE2	29:P1:187:LEU:N	2.48	0.47
29:P1:226:THR:HA	3:WD:32:PRO:HG2	1.96	0.47
29:P1:551:MET:HG2	29:P1:562:THR:HG22	1.97	0.47
29:P2:60:LEU:HD12	29:P2:96:TRP:CE3	2.50	0.47
4:PA:144:GLY:N	39:PA:501:GTP:O2B	2.46	0.47
4:PC:295:CYS:HB2	4:PC:377:MET:HE3	1.97	0.47
3:PD:130:LEU:HB2	3:PD:162:ARG:HH11	1.80	0.47
3:PD:378:PHE:CD1	3:PD:419:VAL:HG22	2.49	0.47
4:PI:75:VAL:HG22	4:PI:79:ARG:HH21	1.80	0.47
4:PI:160:ASP:OD1	4:PI:161:TYR:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PJ:291:GLN:NE2	3:PJ:295:ASP:OD1	2.48	0.47
3:PJ:324:LYS:HE2	4:PK:222:PRO:CD	2.44	0.47
27:Q:24:CYS:C	27:Q:28:ARG:HE	2.22	0.47
3:QB:42:LEU:HD11	3:QB:356:ILE:HG21	1.96	0.47
3:QB:350:LYS:HE3	4:QC:180:ALA:HA	1.95	0.47
3:QB:378:PHE:HB2	3:QB:415:MET:SD	2.55	0.47
4:QC:3:GLU:CD	4:QC:132:LEU:H	2.22	0.47
4:QE:165:SER:C	4:QE:166:LYS:HD2	2.40	0.47
4:QI:160:ASP:OD1	4:QI:161:TYR:N	2.48	0.47
3:QJ:52:ASN:CG	3:QJ:62:ARG:HD3	2.40	0.47
4:QK:265:ILE:HD13	4:QK:432:TYR:CE1	2.50	0.47
3:QL:357:PRO:O	3:QL:359:ARG:NH1	2.46	0.47
4:QM:21:TRP:HD1	4:QM:53:PHE:CE1	2.33	0.47
31:R1:118:ARG:HB3	31:R1:123:MET:SD	2.55	0.47
3:RB:101:TRP:HB2	3:RB:184:ASN:HD22	1.79	0.47
4:RC:118:VAL:HA	4:RC:121:ARG:HG2	1.97	0.47
4:RE:280:LYS:HZ2	4:RE:283:HIS:CE1	2.33	0.47
4:RE:286:LEU:HD11	4:RE:373:ARG:H	1.79	0.47
3:RF:256:ASN:HD21	4:RG:101:ASN:ND2	2.12	0.47
4:RG:319:TYR:HB2	4:RG:355:ILE:HD13	1.97	0.47
4:RI:101:ASN:HA	4:RI:144:GLY:CA	2.39	0.47
3:RJ:392:LYS:HD2	3:RJ:392:LYS:O	2.15	0.47
3:RL:295:ASP:HB2	3:RL:298:ASN:HB2	1.96	0.47
4:SC:120:ASP:OD1	4:SC:123:ARG:NH1	2.48	0.47
3:SF:182:PRO:HA	3:SF:381:ILE:HD11	1.96	0.47
3:SF:345:ILE:CG1	3:SF:348:ASN:HB3	2.44	0.47
3:SF:350:LYS:HE3	4:SG:180:ALA:HA	1.97	0.47
4:SG:47:ASP:HB3	4:SG:49:PHE:CE2	2.50	0.47
4:SG:175:PRO:HA	4:SG:390:ARG:CZ	2.45	0.47
4:SG:352:LYS:NZ	3:SH:178:THR:OG1	2.47	0.47
3:SH:152:ILE:HD12	3:SH:195:ASN:HB2	1.96	0.47
3:SH:378:PHE:HA	3:SH:381:ILE:HG12	1.96	0.47
4:SK:22:GLU:HG2	4:SK:83:TYR:CE2	2.50	0.47
4:TC:1:MET:O	4:TC:133:GLN:NE2	2.43	0.47
4:TC:206:ASN:HA	4:TC:209:ILE:HD12	1.97	0.47
4:TC:260:VAL:O	3:TD:397:TRP:HH2	1.96	0.47
4:TC:269:LEU:N	4:TC:379:SER:O	2.40	0.47
3:TD:12:CYS:HB3	39:TD:501:GTP:H5'	1.97	0.47
4:TE:107:HIS:CD2	4:TE:152:LEU:HB2	2.50	0.47
4:TG:161:TYR:HB3	4:TG:164:LYS:NZ	2.30	0.47
4:TG:362:VAL:HA	4:TG:368:LEU:HD21	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TH:401:GLU:OE1	3:TH:403:MET:HE3	2.15	0.47
3:TJ:189:VAL:HA	3:TJ:192:LEU:HB2	1.97	0.47
4:TK:66:VAL:HA	4:TK:91:GLN:HE21	1.79	0.47
3:TN:81:PHE:O	3:TN:84:ILE:HG22	2.14	0.47
4:UC:313:MET:SD	4:UC:314:ALA:N	2.88	0.47
3:UD:9:ALA:HB3	3:UD:137:HIS:HB3	1.97	0.47
4:UE:265:ILE:HD12	4:UE:432:TYR:CE1	2.50	0.47
4:UG:161:TYR:HB3	4:UG:164:LYS:NZ	2.29	0.47
4:UG:262:TYR:OH	3:UH:391:ARG:O	2.30	0.47
3:UJ:324:LYS:HD2	4:UK:221:ARG:HA	1.95	0.47
4:VC:208:ALA:H	4:VC:304:LYS:HZ1	1.62	0.47
3:VD:325:GLU:O	3:VD:329:GLN:HG2	2.15	0.47
4:VE:89:PRO:HD2	4:WE:280:LYS:NZ	2.29	0.47
3:VF:5:VAL:HG23	3:VF:130:LEU:HD21	1.96	0.47
4:VG:282:TYR:CA	33:W:207:ARG:HH12	2.27	0.47
4:VI:386:GLU:HA	4:VI:389:ALA:HB3	1.96	0.47
4:VK:208:ALA:H	4:VK:304:LYS:NZ	2.12	0.47
4:VK:331:ALA:O	4:VK:334:THR:OG1	2.28	0.47
33:W:395:GLN:O	33:W:399:ASP:N	2.38	0.47
4:WA:119:LEU:HB3	4:WA:123:ARG:NH2	2.30	0.47
4:WC:9:VAL:HG11	4:WC:150:ALA:HB2	1.96	0.47
3:WD:12:CYS:SG	39:WD:501:GTP:H5'	2.55	0.47
3:WD:130:LEU:HB2	3:WD:162:ARG:NH1	2.30	0.47
4:WE:3:GLU:CD	4:WE:131:GLY:H	2.23	0.47
3:WF:3:GLU:OE2	3:WF:127:CYS:HB2	2.15	0.47
3:WF:70:PRO:HG3	35:XJ:74:LYS:HG3	1.95	0.47
3:WH:345:ILE:HD12	3:WH:346:PRO:HD2	1.97	0.47
4:WI:2:ARG:HA	4:WI:133:GLN:NE2	2.29	0.47
4:WI:244:PHE:HB2	4:WI:356:ASN:HD21	1.80	0.47
3:WJ:106:TYR:HB2	3:WJ:401:GLU:OE2	2.15	0.47
4:WK:307:PRO:O	4:WK:342:GLN:NE2	2.45	0.47
4:WK:395:PHE:HE2	4:WK:422:ARG:HH22	1.62	0.47
3:WL:52:ASN:ND2	3:WL:62:ARG:HD3	2.29	0.47
34:XA:30:ARG:O	34:XA:57:THR:OG1	2.32	0.47
34:XA:78:MET:HE3	34:XA:132:ILE:HG13	1.96	0.47
34:XA:106:SER:HB2	34:XA:109:GLN:NE2	2.30	0.47
34:XB:90:GLU:HG3	34:XB:102:ARG:CZ	2.45	0.47
34:XC:13:ILE:HG22	34:XC:25:TRP:HZ2	1.80	0.47
34:XF:109:GLN:HB2	34:XF:122:PRO:HA	1.96	0.47
34:XG:80:ILE:HD13	34:XG:162:ILE:HD13	1.95	0.47
35:XI:105:PHE:CD1	35:XI:106:PRO:HA	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:YD:41:ARG:NH1	37:YD:48:GLN:OE1	2.47	0.47
37:YD:140:LEU:HD12	37:YD:141:ILE:HG13	1.96	0.47
37:YI:60:SER:OG	37:YI:61:THR:N	2.47	0.47
37:YK:63:ARG:O	37:YK:67:ILE:HG23	2.15	0.47
37:YL:97:LEU:HG	37:YL:101:LYS:HE2	1.96	0.47
37:YQ:144:VAL:HG12	37:YQ:148:MET:HE1	1.97	0.47
37:YR:27:ALA:O	37:YR:31:HIS:ND1	2.47	0.47
37:YW:96:LEU:HD22	37:YW:151:TRP:HB2	1.97	0.47
36:Z:211:ASP:O	36:Z:214:LYS:N	2.47	0.47
1:A:165:GLU:HA	1:A:168:ARG:HG2	1.97	0.47
2:A2:90:ASP:HB3	2:A2:239:LYS:HE2	1.96	0.47
2:A2:307:GLU:HB3	2:A2:311:LYS:NZ	2.29	0.47
2:A3:255:ARG:O	2:A3:259:VAL:HG23	2.15	0.47
2:A3:337:LEU:O	2:A3:340:GLU:HG3	2.15	0.47
2:A4:38:VAL:O	2:A4:41:SER:OG	2.28	0.47
3:AB:330:MET:HA	3:AB:333:VAL:HG12	1.97	0.47
4:AC:167:LEU:HB3	4:AC:169:PHE:CZ	2.50	0.47
4:AE:213:CYS:O	4:AE:218:ASP:N	2.48	0.47
4:AE:256:GLN:HE22	3:AF:397:TRP:HE1	1.63	0.47
4:AI:2:ARG:HA	4:AI:133:GLN:HE22	1.80	0.47
4:AI:301:GLN:N	4:AI:301:GLN:OE1	2.48	0.47
3:AJ:11:GLN:HE21	39:AJ:501:GTP:H3'	1.80	0.47
3:AJ:224:ASP:O	3:AJ:228:LEU:HG	2.15	0.47
4:AK:402:ARG:NE	35:XL:233:PRO:HG2	2.27	0.47
4:AM:85:GLN:HG2	4:AM:86:LEU:HD12	1.97	0.47
4:AM:207:GLU:HB2	4:AM:304:LYS:NZ	2.30	0.47
5:B2:75:LYS:NZ	5:B2:180:MET:HB3	2.26	0.47
5:B2:141:VAL:O	5:B2:145:GLU:HG2	2.15	0.47
5:B2:174:SER:HA	5:B2:177:ARG:CZ	2.45	0.47
5:B2:201:LEU:HB2	8:D4:216:SER:OG	2.14	0.47
5:B3:203:VAL:O	5:B3:207:ARG:NH2	2.48	0.47
5:B6:34:ALA:O	5:B6:38:ILE:HG12	2.14	0.47
5:B6:39:ARG:HD2	5:B7:296:ASP:OD2	2.15	0.47
3:BB:378:PHE:CD1	3:BB:419:VAL:HG22	2.50	0.47
4:BE:3:GLU:CD	4:BE:131:GLY:H	2.23	0.47
4:BE:11:GLN:HB3	4:BE:69:ASP:OD1	2.14	0.47
4:BE:140:SER:HA	4:BE:170:ALA:HB1	1.97	0.47
4:BE:345:ASP:OD1	4:BE:345:ASP:N	2.48	0.47
3:BF:318:ARG:HD3	3:BF:358:PRO:HG3	1.97	0.47
4:BG:104:ALA:HB3	4:BG:413:MET:HE3	1.97	0.47
3:BH:32:PRO:C	3:BH:83:GLN:HE21	2.22	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BJ:12:CYS:O	3:BJ:15:GLN:HB3	2.14	0.47
3:BJ:130:LEU:HB2	3:BJ:162:ARG:NH1	2.30	0.47
3:BJ:324:LYS:HD2	4:BK:221:ARG:HA	1.97	0.47
6:C:165:TYR:CD1	6:C:166:ASN:N	2.83	0.47
7:C3:115:HIS:O	7:C3:119:ARG:HG3	2.15	0.47
7:C3:246:SER:H	11:Fl:235:ARG:HH22	1.61	0.47
7:C4:250:ALA:HA	7:C4:310:ARG:HH12	1.79	0.47
7:C4:413:ARG:O	7:C4:413:ARG:NH1	2.47	0.47
7:C7:340:PHE:CZ	7:C7:477:ARG:HG3	2.50	0.47
7:C7:402:GLU:OE1	7:C7:402:GLU:N	2.45	0.47
3:CB:347:ASN:O	3:CB:350:LYS:NZ	2.48	0.47
3:CD:235:GLY:O	3:CD:238:THR:OG1	2.21	0.47
4:CE:85:GLN:OE1	4:CE:85:GLN:N	2.36	0.47
3:CF:73:MET:HE1	3:CF:92:PHE:CB	2.45	0.47
4:CG:35:GLN:HG2	4:CG:59:GLY:O	2.14	0.47
3:CH:8:GLN:OE1	3:CH:8:GLN:N	2.48	0.47
4:CI:263:PRO:HB2	4:CI:264:ARG:NH1	2.29	0.47
4:CK:213:CYS:O	4:CK:218:ASP:N	2.48	0.47
4:CK:263:PRO:O	4:CK:264:ARG:HB2	2.15	0.47
7:Cb:374:GLN:HA	7:Cb:377:MET:HE2	1.96	0.47
7:Cd:289:ARG:HD3	7:Cd:290:VAL:N	2.30	0.47
8:D2:57:PHE:O	8:D2:60:SER:OG	2.31	0.47
8:D3:63:ARG:NH2	8:D4:412:LEU:HA	2.28	0.47
8:D4:57:PHE:O	8:D4:60:SER:OG	2.22	0.47
8:D4:114:LYS:NZ	8:D4:219:VAL:HA	2.29	0.47
8:D7:169:ARG:CZ	8:D8:50:LYS:HB3	2.45	0.47
8:D9:147:VAL:HG12	8:D9:151:ILE:HD11	1.97	0.47
4:DA:6:SER:HA	4:DA:136:LEU:HB2	1.97	0.47
3:DB:280:GLN:OE1	3:DB:280:GLN:N	2.47	0.47
3:DD:58:LYS:HZ3	3:ED:280:GLN:HB2	1.80	0.47
3:DD:123:GLU:O	3:DD:126:SER:OG	2.31	0.47
3:DD:226:ASN:HA	3:DD:229:VAL:HG22	1.97	0.47
4:DE:285:GLN:NE2	4:DE:286:LEU:O	2.48	0.47
3:DF:309:ARG:O	3:DF:371:SER:OG	2.30	0.47
4:DG:318:LEU:O	4:DG:375:VAL:HA	2.15	0.47
4:DG:346:TRP:O	3:DH:388:MET:HE1	2.15	0.47
4:DK:311:LYS:N	4:DK:382:THR:OG1	2.48	0.47
4:DK:321:GLY:HA3	4:DK:372:GLN:O	2.15	0.47
3:DL:51:TYR:HD2	3:DL:59:TYR:HB3	1.79	0.47
3:ED:83:GLN:HB3	13:G1:466:PHE:HE1	1.80	0.47
3:EF:6:HIS:ND1	3:EF:21:TRP:HZ2	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EF:113:VAL:HB	3:EF:154:LYS:HE3	1.96	0.47
3:EH:275:SER:O	3:EH:279:GLN:NE2	2.48	0.47
4:EK:196:GLU:HG2	4:EK:197:HIS:ND1	2.30	0.47
4:EK:256:GLN:O	4:EK:260:VAL:HG12	2.14	0.47
9:F:310:GLU:OE1	9:F:310:GLU:N	2.42	0.47
11:F3:106:ALA:O	11:F3:110:ARG:HG3	2.15	0.47
11:F3:366:GLN:HA	11:F3:369:PHE:CZ	2.49	0.47
11:F5:101:LEU:HD23	11:F5:104:ARG:HE	1.80	0.47
11:F6:111:LEU:HB3	11:F6:115:ARG:NH1	2.29	0.47
11:F7:197:ASN:HA	11:F7:200:LYS:HD2	1.97	0.47
11:F7:201:ARG:HH21	11:F7:206:LEU:HD12	1.80	0.47
11:F7:352:ASP:OD2	11:Fb:333:TRP:NE1	2.48	0.47
11:F7:385:LYS:HZ1	11:F7:389:LEU:HB3	1.80	0.47
11:F8:205:ASP:OD2	11:F8:461:THR:OG1	2.30	0.47
11:F9:372:GLU:O	11:F9:375:ILE:HG12	2.15	0.47
3:FB:316:VAL:HG22	3:FB:352:ALA:HB3	1.96	0.47
3:FB:318:ARG:C	3:FB:321:MET:HE1	2.40	0.47
4:FE:104:ALA:HA	4:FE:107:HIS:HB3	1.96	0.47
4:FG:88:HIS:HB3	4:FG:91:GLN:CG	2.45	0.47
4:FI:119:LEU:HB3	4:FI:123:ARG:NH2	2.30	0.47
3:FJ:407:GLU:HA	3:FJ:410:GLU:OE2	2.14	0.47
4:FK:185:TYR:HA	4:FK:395:PHE:HE1	1.80	0.47
4:FK:288:VAL:HG21	4:FK:328:VAL:HA	1.97	0.47
4:FK:405:VAL:O	4:FK:409:VAL:HG22	2.15	0.47
3:FL:188:SER:O	3:FL:192:LEU:HG	2.15	0.47
3:FL:375:GLN:HA	3:FL:378:PHE:CE1	2.50	0.47
11:Fa:156:LEU:HA	11:Fa:159:GLU:HG2	1.96	0.47
11:Fe:151:PHE:O	11:Fe:154:SER:OG	2.29	0.47
11:Fg:257:LYS:HE3	11:Fg:296:TRP:CG	2.50	0.47
11:Fj:239:GLN:NE2	11:Fj:243:ASN:OD1	2.46	0.47
12:G:43:SER:HB2	12:G:47:TYR:HE2	1.80	0.47
12:G:44:TYR:HA	12:G:47:TYR:CD2	2.45	0.47
13:G1:309:PRO:HD2	13:G1:312:VAL:HG22	1.97	0.47
13:G1:394:ALA:O	13:G1:398:PHE:HB2	2.15	0.47
13:G2:111:MET:HB2	13:G2:112:GLU:CD	2.40	0.47
13:G2:426:LEU:HB3	13:G2:503:PHE:CE1	2.49	0.47
13:G3:485:TYR:OH	13:G3:497:GLU:O	2.23	0.47
13:G3:488:SER:HA	13:G3:523:TYR:HD1	1.80	0.47
14:G4:462:THR:HB	14:G4:483:ARG:C	2.40	0.47
14:G5:129:THR:OG1	14:G5:132:ARG:NH1	2.48	0.47
14:G5:202:GLU:O	14:G5:206:PHE:N	2.41	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G6:41:PRO:HB2	14:G6:45:GLY:HA2	1.96	0.47
14:G6:417:ASN:HB2	14:G6:419:LYS:HE2	1.97	0.47
14:G6:488:LYS:HZ1	14:G6:503:LYS:HD3	1.79	0.47
3:GB:99:ASN:OD1	3:GB:142:GLY:HA3	2.14	0.47
3:GB:249:ASP:O	3:GB:252:LYS:HB2	2.15	0.47
3:GF:103:LYS:O	3:GF:108:GLU:N	2.36	0.47
3:GF:189:VAL:HA	3:GF:192:LEU:HD12	1.97	0.47
3:GF:215:LEU:HD11	3:GF:228:LEU:HD11	1.97	0.47
4:GI:104:ALA:HA	4:GI:107:HIS:HB3	1.97	0.47
3:GJ:11:GLN:HG3	39:GJ:501:GTP:PA	2.54	0.47
3:GJ:285:THR:O	3:GJ:288:GLU:HG3	2.14	0.47
4:GK:419:SER:HA	4:GK:422:ARG:NE	2.23	0.47
3:GL:152:ILE:HD13	3:GL:155:ILE:HD11	1.97	0.47
15:H2:24:TYR:OH	15:H2:35:TYR:OH	2.00	0.47
4:HA:196:GLU:OE1	4:HA:196:GLU:N	2.38	0.47
4:HA:388:TRP:CD1	4:HA:391:LEU:HD12	2.50	0.47
4:HE:184:PRO:HB3	4:HE:394:LYS:HE3	1.95	0.47
3:HF:375:GLN:HA	3:HF:378:PHE:CE1	2.49	0.47
4:HG:109:THR:O	4:HG:112:LYS:NZ	2.47	0.47
4:HG:166:LYS:HE3	4:HG:198:SER:HA	1.97	0.47
4:HI:248:LEU:HD23	4:HI:355:ILE:HG12	1.97	0.47
3:HJ:293:MET:HE3	3:HJ:367:PHE:HB2	1.97	0.47
4:HK:362:VAL:HA	4:HK:368:LEU:HD11	1.97	0.47
4:IA:125:LEU:HD13	4:IA:128:LEU:HD21	1.97	0.47
4:IA:386:GLU:HA	4:IA:389:ALA:HB3	1.97	0.47
4:IE:217:LEU:HD13	4:IE:277:SER:HA	1.97	0.47
3:IF:226:ASN:HA	3:IF:229:VAL:HG22	1.96	0.47
4:II:172:TYR:CD1	4:II:173:PRO:HD2	2.50	0.47
4:II:208:ALA:H	4:II:304:LYS:HZ1	1.62	0.47
4:IK:291:ILE:O	4:IK:295:CYS:N	2.47	0.47
4:IM:208:ALA:N	4:IM:304:LYS:HZ1	2.13	0.47
19:J3:167:MET:CG	19:J3:174:LEU:HD21	2.44	0.47
4:JC:286:LEU:HD11	4:JC:373:ARG:H	1.80	0.47
3:JD:103:LYS:NZ	3:JD:107:THR:HG21	2.29	0.47
4:JG:116:ASP:N	4:JG:116:ASP:OD1	2.46	0.47
4:JI:119:LEU:HB3	4:JI:123:ARG:NH2	2.30	0.47
4:JI:363:VAL:HG13	4:JI:366:GLY:HA3	1.97	0.47
3:JJ:13:GLY:HA2	3:JJ:16:ILE:HB	1.97	0.47
3:JJ:235:GLY:O	3:JJ:238:THR:OG1	2.29	0.47
21:K2:462:ARG:NH2	3:KD:106:TYR:HB3	2.30	0.47
21:K3:375:ARG:O	21:K3:379:LYS:HG2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:KA:116:ASP:N	4:KA:116:ASP:OD1	2.48	0.47
4:KC:286:LEU:HD11	4:KC:373:ARG:H	1.78	0.47
4:KE:99:ALA:HB3	4:KE:144:GLY:O	2.15	0.47
4:KE:204:VAL:HG22	4:KE:209:ILE:HD11	1.97	0.47
4:KG:155:GLU:O	4:KG:159:VAL:HG13	2.15	0.47
4:KG:208:ALA:H	4:KG:304:LYS:NZ	2.13	0.47
4:KG:285:GLN:NE2	4:KG:286:LEU:O	2.47	0.47
3:KH:300:MET:N	3:KH:300:MET:SD	2.88	0.47
4:KI:46:ASP:HA	4:KI:50:ASN:HB3	1.97	0.47
4:KI:47:ASP:HB3	4:KI:49:PHE:CE2	2.50	0.47
4:KI:208:ALA:HB3	4:KI:302:MET:HA	1.96	0.47
3:KL:172:SER:OG	3:KL:205:GLU:OE2	2.22	0.47
3:KL:309:ARG:H	3:KL:372:THR:HG1	1.56	0.47
22:L1:119:LYS:HE2	4:LC:411:GLU:HA	1.97	0.47
4:LA:107:HIS:CD2	4:LA:152:LEU:HB2	2.50	0.47
4:LA:324:VAL:HG11	3:LB:219:THR:HB	1.96	0.47
3:LB:289:LEU:O	3:LB:293:MET:N	2.42	0.47
3:LF:239:CYS:SG	3:LF:316:VAL:HG11	2.55	0.47
3:LF:330:MET:O	3:LF:333:VAL:HG12	2.15	0.47
3:LF:361:LEU:HD22	27:R:368:TYR:CE2	2.50	0.47
4:LG:22:GLU:HG2	4:LG:83:TYR:HE2	1.79	0.47
4:LI:370:LYS:CE	27:R:288:GLN:HG3	2.45	0.47
4:LI:402:ARG:HB2	4:LI:405:VAL:HG11	1.97	0.47
3:LJ:20:PHE:CZ	3:LJ:24:ILE:HD11	2.50	0.47
3:LJ:230:SER:HA	3:LJ:233:MET:HG2	1.96	0.47
3:LL:47:ILE:HG21	3:LL:59:TYR:CZ	2.50	0.47
3:MB:144:GLY:N	39:MB:501:GTP:O2B	2.48	0.47
4:MC:216:ASN:O	4:MC:277:SER:HB3	2.14	0.47
3:MD:250:LEU:HD13	3:MD:253:LEU:HD12	1.97	0.47
3:MD:392:LYS:HD2	3:MD:392:LYS:O	2.15	0.47
3:MF:2:ARG:HB3	3:MF:131:GLN:NE2	2.30	0.47
3:MF:138:SER:HB3	39:MF:501:GTP:H5"	1.97	0.47
3:MF:221:THR:HB	27:P:271:ASP:O	2.14	0.47
4:MG:5:ILE:HD13	4:MG:64:ARG:HB3	1.97	0.47
4:MG:192:HIS:CE1	4:MG:193:THR:HG23	2.50	0.47
4:MK:103:TYR:HB2	4:MK:186:ASN:HB2	1.97	0.47
4:MK:262:TYR:OH	3:ML:391:ARG:HG3	2.15	0.47
4:MK:329:ASN:OD1	4:MK:330:ALA:N	2.48	0.47
4:MM:139:HIS:CD2	4:MM:170:ALA:HB2	2.50	0.47
3:NB:131:GLN:HB3	3:NB:163:ILE:HD12	1.97	0.47
3:NB:299:MET:SD	3:NB:301:ALA:N	2.74	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:NC:176:GLN:NE2	4:NC:207:GLU:OE2	2.48	0.47
4:NE:35:GLN:HG2	4:NE:59:GLY:O	2.15	0.47
3:NH:3:GLU:OE2	3:NH:128:ASP:N	2.48	0.47
4:NK:23:LEU:HD11	4:NK:229:ARG:HA	1.96	0.47
3:NL:77:ARG:O	3:NL:77:ARG:NH1	2.44	0.47
3:NL:114:ASP:OD1	3:NL:115:SER:N	2.48	0.47
3:OB:13:GLY:HA2	3:OB:16:ILE:HB	1.96	0.47
4:OG:329:ASN:OD1	4:OG:330:ALA:N	2.47	0.47
3:OH:70:PRO:HA	3:OH:73:MET:HG3	1.97	0.47
4:OI:229:ARG:NH1	4:OI:233:GLN:HB2	2.29	0.47
3:OL:152:ILE:O	3:OL:156:ARG:HG2	2.15	0.47
3:OL:217:LEU:HD11	3:OL:220:PRO:HB3	1.97	0.47
29:P3:358:VAL:O	29:P3:367:LEU:N	2.45	0.47
29:P3:378:HIS:NE2	29:P3:394:ASP:HB3	2.30	0.47
29:P3:441:VAL:O	29:P3:457:LEU:N	2.37	0.47
4:PC:10:GLY:HA2	4:PC:145:THR:OG1	2.15	0.47
4:PE:371:VAL:HG11	4:PE:374:ALA:HB2	1.96	0.47
3:PF:178:THR:HB	3:PF:181:GLU:HB2	1.96	0.47
3:PF:378:PHE:CD1	3:PF:419:VAL:HG22	2.50	0.47
3:PF:380:ARG:O	3:PF:384:GLN:HG2	2.14	0.47
3:PF:406:MET:O	3:PF:409:THR:OG1	2.25	0.47
3:PH:117:LEU:HB3	3:PH:121:ARG:NH2	2.30	0.47
3:PJ:60:VAL:HG23	3:PJ:86:ARG:HH11	1.79	0.47
3:PJ:175:VAL:HG22	3:PJ:177:ASP:H	1.80	0.47
4:PK:269:LEU:N	4:PK:379:SER:O	2.42	0.47
4:PK:287:SER:N	4:PK:290:GLU:OE2	2.45	0.47
3:PL:41:ASP:CG	37:YV:20:GLN:HG2	2.40	0.47
3:PL:61:PRO:HD3	3:PL:84:ILE:HG13	1.96	0.47
3:PL:410:GLU:HA	3:PL:413:SER:HB3	1.96	0.47
4:PM:272:TYR:CZ	4:PM:274:PRO:HG2	2.49	0.47
27:Q:21:ILE:HA	27:Q:24:CYS:HB2	1.96	0.47
3:QB:51:TYR:HB3	3:QB:59:TYR:HB3	1.96	0.47
3:QB:282:ARG:HE	3:QB:288:GLU:CD	2.23	0.47
4:QC:256:GLN:NE2	4:QC:257:THR:HG23	2.29	0.47
4:QC:272:TYR:CZ	4:QC:274:PRO:HG2	2.50	0.47
3:QF:2:ARG:HA	3:QF:129:CYS:O	2.15	0.47
3:QH:175:VAL:HG22	3:QH:177:ASP:H	1.79	0.47
4:QI:139:HIS:CD2	4:QI:170:ALA:HB2	2.49	0.47
4:QK:167:LEU:HB3	4:QK:169:PHE:CE1	2.50	0.47
3:QL:180:VAL:HG22	3:QL:183:TYR:HB2	1.96	0.47
3:QL:211:CYS:HA	3:QL:215:LEU:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:R:162:TRP:O	27:R:166:GLN:HG2	2.15	0.47
3:RB:132:GLY:HA3	3:RB:163:ILE:H	1.80	0.47
4:RC:392:ASP:OD1	4:RC:393:HIS:N	2.47	0.47
3:RD:11:GLN:HG3	39:RD:501:GTP:PA	2.55	0.47
3:RD:54:ALA:HB3	3:RD:58:LYS:HB3	1.95	0.47
4:RG:203:MET:SD	4:RG:203:MET:N	2.88	0.47
4:RG:375:VAL:HG13	4:RG:377:MET:SD	2.55	0.47
4:RI:256:GLN:O	4:RI:260:VAL:HG12	2.14	0.47
3:RJ:130:LEU:HB2	3:RJ:162:ARG:NH1	2.29	0.47
4:RK:115:VAL:HA	4:RK:118:VAL:HG22	1.96	0.47
4:RK:331:ALA:O	4:RK:334:THR:OG1	2.25	0.47
3:SB:282:ARG:HE	3:SB:288:GLU:CD	2.23	0.47
3:SB:318:ARG:HD3	3:SB:358:PRO:HG3	1.96	0.47
3:SD:318:ARG:HD3	3:SD:358:PRO:HG3	1.95	0.47
3:SD:375:GLN:HA	3:SD:378:PHE:CZ	2.50	0.47
3:SD:398:TYR:HB3	3:SD:403:MET:HB2	1.96	0.47
4:SK:25:CYS:O	4:SK:30:ILE:N	2.46	0.47
4:SK:229:ARG:HE	4:SK:368:LEU:HD22	1.79	0.47
4:SM:3:GLU:OE2	4:SM:130:THR:N	2.33	0.47
4:TC:22:GLU:O	4:TC:26:LEU:HD23	2.14	0.47
3:TD:284:LEU:HD12	3:TD:288:GLU:OE2	2.15	0.47
3:TD:323:MET:N	3:TD:323:MET:SD	2.81	0.47
4:TE:160:ASP:OD1	4:TE:161:TYR:N	2.48	0.47
3:TF:189:VAL:HA	3:TF:192:LEU:HD12	1.96	0.47
4:TG:9:VAL:HA	4:TG:68:VAL:HG23	1.97	0.47
3:TH:318:ARG:HA	3:TH:354:CYS:HB3	1.97	0.47
4:TI:52:PHE:HZ	4:TI:239:THR:HB	1.80	0.47
4:TK:165:SER:C	4:TK:166:LYS:HD2	2.40	0.47
3:TN:372:THR:HG21	3:TN:426:GLN:HG2	1.97	0.47
33:U:488:LYS:HG3	33:U:489:HIS:N	2.29	0.47
4:UA:260:VAL:HG23	4:UA:265:ILE:O	2.15	0.47
4:UA:262:TYR:CE1	3:UB:393:ALA:HA	2.49	0.47
3:UD:240:LEU:HD22	3:UD:248:ALA:HB1	1.95	0.47
3:UD:258:VAL:O	4:UE:407:TRP:NE1	2.38	0.47
4:UE:287:SER:N	4:UE:290:GLU:OE2	2.47	0.47
3:UF:317:PHE:HB3	3:UF:321:MET:HE3	1.96	0.47
4:UG:321:GLY:HA3	4:UG:372:GLN:O	2.15	0.47
4:UI:224:TYR:CE2	39:UI:501:GTP:O6	2.67	0.47
39:UJ:501:GTP:O3G	39:UJ:501:GTP:O3'	2.25	0.47
4:UK:392:ASP:OD1	4:UK:393:HIS:N	2.48	0.47
3:UL:33:THR:O	3:UL:58:LYS:NZ	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VB:178:THR:HB	3:VB:181:GLU:HB2	1.97	0.47
3:VB:319:GLY:N	3:VB:321:MET:HE1	2.30	0.47
3:VD:267:MET:CE	3:VD:299:MET:HG2	2.45	0.47
4:VE:216:ASN:OD1	4:VE:217:LEU:N	2.45	0.47
3:VF:250:LEU:HD13	3:VF:253:LEU:HD12	1.97	0.47
3:VH:81:PHE:HB3	3:VH:84:ILE:HG22	1.96	0.47
3:VJ:285:THR:O	3:VJ:288:GLU:HG3	2.15	0.47
4:VK:402:ARG:HB2	4:VK:405:VAL:HG11	1.96	0.47
4:VK:429:GLU:HA	4:VK:432:TYR:CD2	2.41	0.47
4:WA:22:GLU:HG2	4:WA:83:TYR:CE2	2.50	0.47
3:WB:11:GLN:HG3	39:WB:501:GTP:PA	2.54	0.47
3:WB:222:TYR:HA	3:WB:225:LEU:HD13	1.97	0.47
3:WB:318:ARG:C	3:WB:321:MET:HE1	2.40	0.47
4:WC:345:ASP:N	4:WC:345:ASP:OD1	2.48	0.47
3:WD:47:ILE:HG12	3:WD:59:TYR:CD2	2.50	0.47
4:WE:138:PHE:HZ	4:WE:235:VAL:HG21	1.80	0.47
3:WF:183:TYR:CZ	3:WF:388:MET:HG3	2.50	0.47
4:WI:189:LEU:HD11	4:WI:418:PHE:HE1	1.80	0.47
4:WI:321:GLY:N	4:WI:356:ASN:O	2.43	0.47
3:WJ:250:LEU:O	3:WJ:254:ALA:N	2.39	0.47
4:WK:88:HIS:CD2	4:WK:90:GLU:HG2	2.50	0.47
4:WK:418:PHE:O	4:WK:422:ARG:NH2	2.48	0.47
3:WL:6:HIS:HB3	3:WL:21:TRP:HZ2	1.80	0.47
33:X:437:VAL:HG12	33:X:441:ARG:HD2	1.97	0.47
34:XC:3:LYS:HE3	35:XJ:62:ARG:HG2	1.97	0.47
35:XM:171:LEU:HD23	35:XM:174:TYR:CE2	2.50	0.47
37:YB:124:HIS:ND1	37:YB:124:HIS:O	2.48	0.47
37:YC:26:ILE:HA	37:YC:29:LEU:HB2	1.97	0.47
37:YE:81:GLN:HA	37:YE:84:GLU:HB2	1.97	0.47
37:YH:4:VAL:HG13	37:YH:79:LEU:HG	1.96	0.47
37:YH:27:ALA:O	37:YH:31:HIS:ND1	2.47	0.47
37:YN:82:HIS:O	37:YN:86:LEU:HG	2.15	0.47
37:YR:18:PHE:HA	37:YR:21:GLN:HE21	1.80	0.47
37:YR:18:PHE:O	37:YR:22:GLN:N	2.48	0.47
36:Z:263:ARG:O	36:Z:267:LEU:HG	2.15	0.47
2:A1:326:VAL:O	2:A1:326:VAL:HG13	2.15	0.47
3:AB:114:ASP:OD1	3:AB:115:SER:N	2.47	0.47
3:AB:214:THR:HG21	3:AB:273:LEU:HB3	1.97	0.47
4:AC:265:ILE:HA	4:AC:267:PHE:CE2	2.50	0.47
4:AE:333:ALA:HA	4:AE:336:LYS:HD2	1.97	0.47
3:AF:295:ASP:HB2	3:AF:298:ASN:HB2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AH:282:ARG:NH2	3:AH:292:GLN:OE1	2.27	0.47
4:AI:9:VAL:HG22	4:AI:146:GLY:HA2	1.96	0.47
4:AI:210:TYR:OH	4:AI:221:ARG:NH2	2.48	0.47
3:AJ:4:ILE:HD11	3:AJ:131:GLN:HB2	1.97	0.47
3:AJ:250:LEU:HD13	3:AJ:253:LEU:HD12	1.96	0.47
3:AJ:304:ASP:O	3:AJ:307:HIS:ND1	2.45	0.47
4:AK:88:HIS:HE1	4:AK:90:GLU:HG2	1.80	0.47
4:AK:272:TYR:CE1	4:AK:374:ALA:HB1	2.50	0.47
4:AM:2:ARG:HA	4:AM:133:GLN:NE2	2.30	0.47
4:AM:15:GLN:HG2	4:AM:16:ILE:N	2.30	0.47
4:AM:172:TYR:N	4:AM:204:VAL:O	2.37	0.47
4:AM:397:LEU:O	4:AM:401:LYS:HG2	2.16	0.47
4:AM:419:SER:O	4:AM:422:ARG:HG2	2.15	0.47
5:B2:7:LYS:HG3	8:D5:330:THR:HG23	1.97	0.47
5:B3:73:ARG:O	5:B3:76:GLU:HG3	2.15	0.47
5:B3:128:VAL:HA	5:B4:11:ARG:NH2	2.29	0.47
5:B3:316:THR:HG21	5:B4:199:ILE:CB	2.44	0.47
5:B4:188:GLY:O	5:B4:192:LEU:HG	2.15	0.47
5:B7:46:ARG:O	5:B7:50:ASN:ND2	2.47	0.47
5:B7:202:LYS:HA	8:D8:212:GLU:OE2	2.15	0.47
5:B8:186:ASP:OD1	5:B9:321:ARG:NH1	2.48	0.47
5:B9:321:ARG:HH21	5:B9:324:ARG:HG2	1.80	0.47
4:BC:145:THR:HG23	39:BC:501:GTP:O3B	2.15	0.47
4:BC:333:ALA:HA	4:BC:336:LYS:HD2	1.97	0.47
4:BE:139:HIS:HE1	4:BE:168:GLU:HB3	1.80	0.47
4:BE:272:TYR:CZ	4:BE:274:PRO:HG2	2.50	0.47
3:BF:235:GLY:O	3:BF:238:THR:OG1	2.27	0.47
3:BH:206:ALA:O	3:BH:210:ILE:HG12	2.15	0.47
3:BJ:117:LEU:HD23	3:BJ:121:ARG:HH22	1.80	0.47
3:BJ:178:THR:HB	3:BJ:181:GLU:HB2	1.96	0.47
4:BM:252:LEU:HA	4:BM:255:PHE:HB2	1.97	0.47
6:C:378:LEU:HG	6:C:380:GLU:H	1.80	0.47
7:C2:388:GLU:HB3	7:C2:392:PHE:CZ	2.50	0.47
7:C3:214:GLU:OE1	7:C3:214:GLU:N	2.41	0.47
7:C3:400:LEU:HA	7:C3:420:LEU:HD13	1.97	0.47
7:C3:403:ARG:NE	7:C3:417:GLN:HE21	2.09	0.47
7:C3:406:ARG:HB3	7:C3:410:GLU:HG2	1.97	0.47
7:C4:182:GLU:HA	7:C4:185:LEU:HD12	1.97	0.47
7:C7:457:HIS:CE1	7:Ca:405:ARG:HG3	2.50	0.47
7:C8:289:ARG:HH22	8:D4:184:ARG:HB3	1.79	0.47
3:CB:132:GLY:HA3	3:CB:163:ILE:H	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CB:211:CYS:HA	3:CB:215:LEU:HB2	1.96	0.47
3:CD:12:CYS:SG	39:CD:501:GTP:H5'	2.54	0.47
3:CD:44:LEU:HD21	15:H2:247:PHE:HE2	1.80	0.47
3:CH:12:CYS:O	3:CH:15:GLN:HB2	2.15	0.47
3:CH:318:ARG:C	3:CH:321:MET:HE1	2.40	0.47
4:CI:196:GLU:HG2	4:CI:197:HIS:ND1	2.29	0.47
4:CI:386:GLU:HA	4:CI:389:ALA:HB3	1.97	0.47
3:CJ:118:ASP:OD1	3:CJ:121:ARG:NH1	2.48	0.47
4:CM:311:LYS:HE3	4:CM:344:VAL:HG12	1.96	0.47
7:Cb:179:ARG:O	7:Cb:183:ARG:HG2	2.14	0.47
6:D:195:LEU:O	6:D:210:SER:OG	2.30	0.47
6:D:200:SER:N	6:D:219:GLY:O	2.33	0.47
8:D2:294:ARG:NH1	8:D2:297:CYS:SG	2.88	0.47
8:D3:266:LEU:O	8:D3:270:ARG:HG3	2.14	0.47
8:D4:32:ASN:HD21	8:D4:39:SER:H	1.63	0.47
8:D5:325:THR:HA	8:D5:328:GLU:OE1	2.14	0.47
8:D9:180:THR:O	8:D9:184:ARG:NE	2.41	0.47
8:D9:313:ASP:CG	11:F4:271:ARG:HH22	2.23	0.47
3:DB:176:SER:HB2	3:DB:181:GLU:HG2	1.97	0.47
4:DC:290:GLU:O	4:DC:294:ALA:N	2.40	0.47
4:DC:405:VAL:O	4:DC:409:VAL:HG22	2.15	0.47
4:DE:196:GLU:OE1	4:DE:196:GLU:N	2.40	0.47
4:DE:425:LEU:O	4:DE:428:LEU:N	2.48	0.47
3:DF:375:GLN:O	3:DF:379:LYS:HE2	2.15	0.47
4:DI:363:VAL:H	4:DI:368:LEU:HD21	1.80	0.47
3:DJ:233:MET:HA	3:DJ:236:VAL:HG12	1.97	0.47
4:DK:10:GLY:C	4:DK:12:ALA:N	2.73	0.47
4:DK:375:VAL:HG13	4:DK:377:MET:SD	2.55	0.47
3:DL:328:GLU:OE2	3:DL:329:GLN:NE2	2.47	0.47
10:E1:138:GLN:N	10:E1:138:GLN:OE1	2.48	0.47
3:EB:172:SER:HB3	3:EB:175:VAL:O	2.14	0.47
4:EC:47:ASP:HB3	4:EC:49:PHE:CE2	2.50	0.47
4:EC:392:ASP:OD1	4:EC:393:HIS:N	2.48	0.47
4:EE:236:SER:O	4:EE:243:ARG:NH2	2.38	0.47
4:EG:311:LYS:NZ	4:EG:343:PHE:O	2.48	0.47
3:EH:130:LEU:HB2	3:EH:162:ARG:NH1	2.28	0.47
4:EI:21:TRP:HA	4:EI:24:TYR:HD2	1.79	0.47
4:EI:107:HIS:HA	4:EI:152:LEU:HD23	1.96	0.47
3:EJ:40:SER:HB2	3:EJ:43:GLN:HG2	1.97	0.47
3:EJ:325:GLU:O	3:EJ:329:GLN:HG2	2.15	0.47
3:EL:218:THR:OG1	3:EL:219:THR:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:F1:197:ASN:HA	11:F1:200:LYS:HZ1	1.80	0.47
11:F2:201:ARG:CZ	11:F2:206:LEU:HA	2.45	0.47
11:F3:441:LEU:HD21	11:F7:278:SER:HB2	1.96	0.47
11:F7:260:ALA:HB2	11:F8:406:GLU:CD	2.40	0.47
11:F9:433:ARG:NH2	11:Fa:120:SER:HA	2.30	0.47
4:FA:118:VAL:O	4:FA:122:ILE:HG13	2.15	0.47
4:FA:216:ASN:HD21	4:FA:275:VAL:HG23	1.79	0.47
4:FC:1:MET:SD	4:FC:2:ARG:N	2.88	0.47
4:FC:115:VAL:HA	4:FC:118:VAL:HG22	1.96	0.47
4:FE:185:TYR:CZ	4:FE:398:MET:HE1	2.49	0.47
4:FE:318:LEU:O	4:FE:375:VAL:HA	2.15	0.47
3:FF:156:ARG:NH1	3:FF:195:ASN:O	2.45	0.47
3:FF:291:GLN:NE2	3:FF:295:ASP:OD1	2.47	0.47
3:FJ:72:THR:O	3:FJ:75:SER:OG	2.29	0.47
3:FJ:180:VAL:O	3:FJ:183:TYR:HB2	2.14	0.47
3:FJ:282:ARG:HE	3:FJ:288:GLU:CD	2.23	0.47
3:FL:309:ARG:HH21	3:FL:426:GLN:HG2	1.80	0.47
11:Fa:142:LEU:HD13	11:Fa:268:PHE:HD1	1.79	0.47
11:Fc:123:ILE:HG23	11:Fc:127:LYS:HZ1	1.79	0.47
11:Ff:195:LEU:O	11:Ff:198:ARG:HG3	2.15	0.47
11:Ff:213:LYS:O	11:Ff:217:ARG:HD3	2.15	0.47
11:Fj:303:ASN:OD1	11:Fj:304:ILE:N	2.48	0.47
11:Fl:196:TYR:O	11:Fl:200:LYS:HG3	2.14	0.47
11:Fm:385:LYS:CE	11:Fm:427:LEU:HD13	2.42	0.47
12:G:449:ASN:O	12:G:453:MET:HG2	2.15	0.47
14:G4:734:ARG:NE	14:G4:735:TYR:H	2.13	0.47
14:G5:442:THR:OG1	14:G5:444:LYS:O	2.33	0.47
14:G5:492:GLU:O	14:G5:495:LYS:NZ	2.45	0.47
14:G5:721:TRP:CZ2	14:G5:725:PRO:HD2	2.50	0.47
4:GA:88:HIS:O	4:GA:91:GLN:HG2	2.14	0.47
4:GA:192:HIS:CE1	4:GA:193:THR:HG23	2.50	0.47
4:GC:50:ASN:OD1	4:GC:51:THR:N	2.48	0.47
3:GD:29:GLY:HA2	3:GD:359:ARG:HH12	1.79	0.47
4:GE:55:GLU:HB2	4:GE:61:HIS:CD2	2.50	0.47
3:GF:48:ASN:HA	3:GF:51:TYR:O	2.15	0.47
4:GG:116:ASP:O	4:GG:120:ASP:N	2.44	0.47
3:GH:249:ASP:O	3:GH:252:LYS:HB2	2.15	0.47
3:GL:12:CYS:SG	39:GL:501:GTP:H5'	2.55	0.47
3:GL:189:VAL:HA	3:GL:192:LEU:HB2	1.97	0.47
4:HA:165:SER:C	4:HA:166:LYS:HD2	2.40	0.47
3:HB:73:MET:HE3	3:HB:92:PHE:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HD:3:GLU:HG2	3:HD:130:LEU:HD13	1.96	0.47
3:HD:234:SER:O	3:HD:238:THR:HG23	2.15	0.47
4:HE:88:HIS:CE1	4:HE:121:ARG:HH22	2.32	0.47
4:HG:116:ASP:N	4:HG:116:ASP:OD1	2.46	0.47
4:HG:181:VAL:HG23	4:HG:404:PHE:HE2	1.80	0.47
4:HI:180:ALA:HB3	4:HI:183:GLU:HB2	1.97	0.47
3:HJ:211:CYS:O	3:HJ:216:LYS:N	2.38	0.47
3:HL:182:PRO:HA	3:HL:381:ILE:HD11	1.97	0.47
3:HL:270:PHE:HD2	3:HL:273:LEU:HD21	1.79	0.47
4:IA:318:LEU:O	4:IA:375:VAL:HA	2.15	0.47
3:IB:255:VAL:HG12	4:IC:407:TRP:CD2	2.50	0.47
4:IE:145:THR:OG1	39:IE:501:GTP:O1B	2.32	0.47
4:IE:216:ASN:ND2	4:IE:275:VAL:O	2.48	0.47
4:IE:220:GLU:HG2	4:IE:221:ARG:HG2	1.96	0.47
4:IG:186:ASN:HA	4:IG:189:LEU:HD12	1.97	0.47
4:II:165:SER:C	4:II:166:LYS:HD2	2.40	0.47
4:II:272:TYR:CZ	4:II:274:PRO:HG2	2.49	0.47
4:IM:145:THR:HG1	39:IM:501:GTP:PB	2.36	0.47
4:IM:206:ASN:HA	4:IM:209:ILE:HD12	1.96	0.47
4:IM:320:ARG:NH2	4:IM:358:GLN:HG3	2.28	0.47
19:J3:60:THR:HG22	19:J3:62:PHE:H	1.79	0.47
4:JA:2:ARG:NH1	4:JA:241:SER:O	2.47	0.47
4:JA:42:ILE:HG12	4:JA:55:GLU:OE2	2.15	0.47
4:JA:320:ARG:HG2	4:JA:358:GLN:O	2.15	0.47
3:JB:6:HIS:HB3	3:JB:21:TRP:HZ2	1.80	0.47
3:JB:165:ASN:OD1	3:JB:166:THR:N	2.48	0.47
3:JD:52:ASN:ND2	3:JD:62:ARG:HD3	2.30	0.47
3:JD:150:LEU:O	3:JD:153:SER:OG	2.32	0.47
4:JE:386:GLU:O	4:JE:390:ARG:N	2.44	0.47
3:JJ:218:THR:OG1	3:JJ:219:THR:N	2.47	0.47
20:K:22:GLU:O	20:K:26:MET:HG2	2.15	0.47
20:K:30:LEU:O	20:K:34:GLU:HG3	2.15	0.47
21:K3:34:LEU:HB3	21:K3:38:ARG:NH1	2.29	0.47
21:K3:350:MET:HE3	21:K3:450:LYS:HD3	1.96	0.47
21:K5:26:LYS:HZ3	21:K5:30:ARG:HH21	1.62	0.47
4:KA:280:LYS:HZ2	4:KA:283:HIS:CE1	2.33	0.47
3:KB:150:LEU:O	3:KB:153:SER:OG	2.24	0.47
3:KB:172:SER:OG	3:KB:205:GLU:OE2	2.20	0.47
4:KC:9:VAL:HA	4:KC:68:VAL:HG23	1.97	0.47
4:KC:167:LEU:HD13	4:KC:200:CYS:HB2	1.96	0.47
3:KD:156:ARG:NE	3:KD:164:MET:HE3	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:KG:34:GLY:HA2	4:KG:86:LEU:HD11	1.96	0.47
4:KI:132:LEU:O	4:KI:132:LEU:HD12	2.15	0.47
3:KJ:52:ASN:CG	3:KJ:62:ARG:HD3	2.40	0.47
3:KJ:114:ASP:OD1	3:KJ:115:SER:N	2.48	0.47
3:KL:31:ASP:OD2	3:KL:35:THR:OG1	2.31	0.47
3:KL:215:LEU:HD11	3:KL:228:LEU:HD11	1.97	0.47
20:L:25:ARG:HA	20:L:25:ARG:HH11	1.80	0.47
20:L:256:ASP:OD1	20:L:260:VAL:N	2.40	0.47
4:LA:50:ASN:O	4:LA:64:ARG:NH1	2.47	0.47
4:LC:15:GLN:OE1	4:LC:15:GLN:N	2.45	0.47
4:LC:386:GLU:HA	4:LC:389:ALA:HB3	1.96	0.47
4:LC:408:TYR:CD2	4:LC:418:PHE:HZ	2.32	0.47
3:LD:344:TRP:CZ2	4:LE:401:LYS:HB2	2.50	0.47
4:LE:119:LEU:HB3	4:LE:123:ARG:NH2	2.31	0.47
3:LF:31:ASP:N	3:LF:31:ASP:OD1	2.45	0.47
3:LH:51:TYR:CD1	3:LH:61:PRO:HA	2.50	0.47
3:LH:332:ASN:O	3:LH:336:LYS:N	2.42	0.47
4:LI:91:GLN:HG3	4:LI:121:ARG:HH21	1.80	0.47
4:LI:141:PHE:HB2	4:LI:173:PRO:HD3	1.96	0.47
4:LI:262:TYR:OH	3:LJ:391:ARG:O	2.32	0.47
4:LI:269:LEU:N	4:LI:379:SER:O	2.38	0.47
3:LJ:32:PRO:C	3:LJ:83:GLN:HE21	2.22	0.47
3:LJ:386:THR:O	3:LJ:390:ARG:N	2.44	0.47
3:LL:113:VAL:HA	3:LL:116:VAL:HG22	1.97	0.47
23:M:103:GLU:OE1	23:M:103:GLU:N	2.47	0.47
3:MB:209:ASP:O	3:MB:213:ARG:N	2.46	0.47
4:MC:286:LEU:HD11	4:MC:373:ARG:H	1.79	0.47
39:MD:502:GTP:C5	4:ME:224:TYR:CE1	3.03	0.47
3:MH:176:SER:O	3:MH:178:THR:N	2.48	0.47
3:MH:330:MET:HE1	4:MI:177:VAL:HG22	1.95	0.47
4:MI:2:ARG:NH1	4:MI:241:SER:O	2.48	0.47
4:MK:47:ASP:HB3	4:MK:49:PHE:CE2	2.49	0.47
4:MK:287:SER:OG	4:MK:290:GLU:OE1	2.33	0.47
3:ML:375:GLN:O	3:ML:379:LYS:HB2	2.15	0.47
25:N:30:VAL:HG23	25:N:31:ASN:N	2.29	0.47
26:N4:89:LYS:O	26:N4:93:LEU:HD23	2.15	0.47
4:NA:301:GLN:OE1	4:NA:301:GLN:N	2.48	0.47
4:NA:405:VAL:O	4:NA:409:VAL:HG22	2.15	0.47
3:ND:52:ASN:ND2	3:ND:62:ARG:HD3	2.30	0.47
3:ND:130:LEU:HB2	3:ND:162:ARG:HH11	1.79	0.47
3:ND:258:VAL:O	4:NE:407:TRP:NE1	2.41	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NF:372:THR:HG21	3:NF:426:GLN:HG3	1.97	0.47
3:NF:389:PHE:HZ	3:NF:405:GLU:HB2	1.79	0.47
4:NG:321:GLY:HA3	4:NG:372:GLN:O	2.15	0.47
3:NH:285:THR:O	3:NH:288:GLU:HG3	2.15	0.47
4:NI:70:LEU:HA	4:NI:95:GLY:HA3	1.97	0.47
4:NI:272:TYR:CZ	4:NI:274:PRO:HG2	2.49	0.47
4:NI:321:GLY:N	4:NI:356:ASN:O	2.36	0.47
3:NJ:186:THR:HA	3:NJ:189:VAL:HG12	1.97	0.47
3:NL:197:ASP:OD1	3:NL:198:GLU:N	2.47	0.47
4:OA:176:GLN:NE2	4:OA:207:GLU:OE2	2.48	0.47
4:OA:425:LEU:O	4:OA:428:LEU:N	2.48	0.47
3:OB:174:LYS:HG3	3:OB:175:VAL:HG12	1.97	0.47
3:OB:398:TYR:HB3	3:OB:403:MET:HB2	1.96	0.47
4:OC:175:PRO:HA	4:OC:390:ARG:CZ	2.45	0.47
3:OD:405:GLU:O	3:OD:409:THR:HG23	2.15	0.47
3:OF:421:GLU:HG3	3:OF:425:TYR:HE2	1.79	0.47
4:OI:417:GLU:O	4:OI:420:GLU:HG2	2.15	0.47
3:OJ:139:LEU:HD21	3:OJ:170:VAL:HG22	1.97	0.47
4:OK:91:GLN:NE2	4:OK:125:LEU:HD21	2.30	0.47
4:OK:166:LYS:N	4:OK:199:ASP:OD2	2.48	0.47
3:OL:289:LEU:O	3:OL:293:MET:HG2	2.14	0.47
27:P:288:GLN:O	27:P:292:ILE:N	2.39	0.47
29:P1:390:ILE:HG22	29:P1:423:ILE:HD11	1.96	0.47
3:PB:32:PRO:O	3:PB:83:GLN:NE2	2.37	0.47
3:PB:173:PRO:O	3:PB:380:ARG:NH2	2.48	0.47
3:PD:1:MET:HE1	3:PD:49:VAL:HA	1.96	0.47
3:PD:289:LEU:O	3:PD:293:MET:N	2.43	0.47
4:PE:3:GLU:N	4:PE:133:GLN:OE1	2.48	0.47
4:PE:420:GLU:HA	4:PE:423:GLU:OE2	2.14	0.47
3:PH:37:HIS:HA	37:YM:64:ARG:NH1	2.29	0.47
3:PH:309:ARG:O	3:PH:371:SER:OG	2.28	0.47
4:PI:54:SER:N	4:PI:62:VAL:O	2.48	0.47
4:PI:132:LEU:O	4:PI:132:LEU:HD12	2.14	0.47
4:PI:245:ASP:O	4:PI:356:ASN:ND2	2.47	0.47
3:PL:11:GLN:HG3	39:PL:501:GTP:PA	2.55	0.47
3:PL:347:ASN:HB3	4:PM:178:SER:HB3	1.97	0.47
3:PL:406:MET:O	3:PL:409:THR:OG1	2.27	0.47
4:PM:230:LEU:O	4:PM:234:ILE:HG12	2.15	0.47
4:PM:255:PHE:O	4:PM:259:LEU:HB2	2.15	0.47
30:Q3:1427:LYS:HE2	30:Q3:1499:LYS:HB3	1.96	0.47
3:QB:318:ARG:C	3:QB:321:MET:HE1	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:QC:280:LYS:HZ2	4:QC:283:HIS:CE1	2.33	0.47
4:QE:264:ARG:O	4:QE:266:HIS:ND1	2.47	0.47
3:QF:183:TYR:CD1	3:QF:388:MET:HE3	2.50	0.47
3:QF:323:MET:SD	3:QF:323:MET:N	2.86	0.47
4:QG:260:VAL:O	3:QH:397:TRP:HH2	1.98	0.47
31:R2:280:TYR:O	31:R2:282:HIS:ND1	2.46	0.47
3:RD:234:SER:O	3:RD:238:THR:HG23	2.15	0.47
4:RE:113:GLU:OE1	4:RE:113:GLU:N	2.44	0.47
4:RE:176:GLN:NE2	4:RE:207:GLU:OE2	2.48	0.47
3:RF:282:ARG:HE	3:RF:288:GLU:CD	2.22	0.47
3:RH:101:TRP:HB2	3:RH:184:ASN:HD22	1.80	0.47
4:RI:287:SER:OG	4:RI:290:GLU:OE1	2.22	0.47
4:RI:333:ALA:HA	4:RI:336:LYS:HD2	1.97	0.47
3:RJ:230:SER:O	3:RJ:234:SER:N	2.38	0.47
3:RL:87:PRO:HA	3:RL:90:PHE:CD2	2.50	0.47
4:RM:316:CYS:N	4:RM:378:LEU:O	2.33	0.47
4:RM:388:TRP:HB3	4:RM:425:LEU:HD11	1.96	0.47
3:SB:72:THR:O	3:SB:75:SER:OG	2.29	0.47
3:SB:309:ARG:N	3:SB:372:THR:HG1	2.07	0.47
3:SD:347:ASN:HB3	4:SE:178:SER:HB3	1.97	0.47
4:SE:87:PHE:HB3	4:SE:92:LEU:HD21	1.96	0.47
3:SF:2:ARG:HA	3:SF:129:CYS:O	2.15	0.47
3:SF:404:ASP:OD1	3:SF:404:ASP:N	2.47	0.47
4:SG:310:GLY:HA3	4:SG:383:ALA:HB2	1.97	0.47
4:SI:172:TYR:N	4:SI:204:VAL:O	2.36	0.47
3:SJ:51:TYR:CD1	3:SJ:61:PRO:HA	2.50	0.47
3:SJ:378:PHE:CD1	3:SJ:419:VAL:HG22	2.49	0.47
4:SK:154:MET:HG3	4:SK:155:GLU:N	2.29	0.47
3:SL:294:PHE:HE1	3:SL:310:TYR:HE2	1.62	0.47
4:SM:9:VAL:HA	4:SM:68:VAL:HG23	1.97	0.47
4:SM:172:TYR:CD1	4:SM:203:MET:HG2	2.49	0.47
4:TC:258:ASN:HB3	4:TC:352:LYS:HE2	1.97	0.47
4:TE:174:ALA:HB3	4:TE:177:VAL:O	2.15	0.47
4:TE:287:SER:N	4:TE:290:GLU:OE2	2.47	0.47
4:TI:406:HIS:HA	4:TI:409:VAL:HG22	1.97	0.47
3:TJ:176:SER:O	3:TJ:178:THR:N	2.47	0.47
4:TK:260:VAL:HG23	4:TK:265:ILE:O	2.15	0.47
4:TK:329:ASN:OD1	4:TK:330:ALA:N	2.47	0.47
4:TM:216:ASN:OD1	4:TM:217:LEU:N	2.47	0.47
3:TN:328:GLU:O	3:TN:332:ASN:N	2.41	0.47
33:U:323:GLN:HA	33:U:326:LYS:HG2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UA:113:GLU:OE1	4:UA:113:GLU:N	2.47	0.47
4:UA:433:GLU:O	4:UA:437:VAL:HG23	2.15	0.47
3:UB:319:GLY:N	3:UB:321:MET:HE1	2.30	0.47
3:UD:325:GLU:HA	3:UD:328:GLU:HG3	1.97	0.47
3:UD:392:LYS:HD2	3:UD:392:LYS:O	2.16	0.47
4:UE:50:ASN:OD1	4:UE:51:THR:N	2.48	0.47
3:UF:156:ARG:NE	3:UF:164:MET:HE3	2.29	0.47
4:UG:60:LYS:HE2	4:VG:282:TYR:OH	2.15	0.47
4:UG:391:LEU:O	4:UG:395:PHE:N	2.39	0.47
4:UK:15:GLN:HG2	4:UK:16:ILE:N	2.30	0.47
4:VA:324:VAL:HG21	3:VB:219:THR:HG22	1.96	0.47
4:VA:392:ASP:OD1	4:VA:393:HIS:N	2.48	0.47
3:VB:173:PRO:O	3:VB:380:ARG:NH2	2.48	0.47
4:VC:139:HIS:CD2	4:VC:170:ALA:HB2	2.50	0.47
4:VG:145:THR:OG1	39:VG:501:GTP:O1B	2.32	0.47
4:VG:206:ASN:HA	4:VG:209:ILE:HD12	1.97	0.47
4:VG:296:PHE:HD2	4:VG:341:ILE:HD11	1.80	0.47
4:VI:165:SER:C	4:VI:166:LYS:HD2	2.40	0.47
3:VJ:273:LEU:H	3:VJ:292:GLN:HE22	1.62	0.47
4:VK:22:GLU:HG2	4:VK:83:TYR:CE2	2.50	0.47
33:W:265:ILE:HA	33:W:268:ASN:ND2	2.30	0.47
4:WA:46:ASP:HA	4:WA:50:ASN:HB3	1.96	0.47
4:WA:208:ALA:H	4:WA:304:LYS:NZ	2.11	0.47
4:WA:321:GLY:N	4:WA:356:ASN:O	2.27	0.47
4:WC:54:SER:N	4:WC:62:VAL:O	2.47	0.47
3:WD:375:GLN:HA	3:WD:378:PHE:CE1	2.50	0.47
4:WE:320:ARG:HG2	4:WE:358:GLN:O	2.15	0.47
3:WF:379:LYS:HA	3:WF:379:LYS:HE2	1.97	0.47
4:WG:262:TYR:OH	3:WH:391:ARG:O	2.32	0.47
4:WG:408:TYR:O	4:WG:411:GLU:HG3	2.15	0.47
4:WK:271:THR:HB	4:WK:377:MET:HB2	1.96	0.47
4:WK:329:ASN:HA	4:WK:332:ILE:HG12	1.96	0.47
34:XC:80:ILE:HD12	34:XC:161:ARG:O	2.15	0.47
37:YA:141:ILE:O	37:YA:145:LEU:HG	2.15	0.47
37:YD:159:PRO:HD2	37:YD:162:VAL:HG12	1.97	0.47
37:YE:33:ARG:HA	37:YE:52:TYR:HE1	1.79	0.47
37:YH:71:ASP:O	37:YH:75:GLU:N	2.48	0.47
37:YK:22:GLN:O	37:YK:26:ILE:HG12	2.15	0.47
37:YM:30:GLU:HG2	37:YM:31:HIS:N	2.29	0.47
37:YO:27:ALA:O	37:YO:31:HIS:ND1	2.48	0.47
37:YP:11:ILE:HA	37:YP:14:LYS:NZ	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:Z:246:ILE:O	36:Z:250:LYS:HG2	2.15	0.47
36:Z:258:GLU:O	36:Z:262:ASN:N	2.39	0.47
36:Z:385:GLU:HB3	36:Z:389:ARG:NH2	2.29	0.47
1:A:210:LEU:HA	1:A:213:LYS:NZ	2.29	0.46
1:A:223:ILE:HD11	3:HD:280:GLN:HB3	1.97	0.46
2:A1:214:LEU:HA	2:A1:217:TRP:HE3	1.75	0.46
2:A1:336:ARG:CZ	2:A2:59:VAL:HA	2.46	0.46
2:A1:386:ASP:HA	2:A1:390:CYS:SG	2.54	0.46
2:A3:32:SER:C	2:A3:36:ARG:HE	2.23	0.46
2:A3:43:ARG:HH12	5:B3:44:ILE:N	2.13	0.46
3:AB:21:TRP:CZ2	3:AB:63:ALA:HB2	2.50	0.46
4:AE:89:PRO:HB2	4:AE:90:GLU:OE1	2.15	0.46
4:AE:166:LYS:O	4:AE:199:ASP:HB2	2.15	0.46
4:AE:171:ILE:HD12	4:AE:204:VAL:O	2.16	0.46
4:AE:224:TYR:CE1	39:AE:501:GTP:C6	3.03	0.46
3:AF:332:ASN:O	3:AF:336:LYS:HG2	2.15	0.46
4:AG:49:PHE:O	4:AG:53:PHE:N	2.47	0.46
4:AG:104:ALA:HB1	4:AG:108:TYR:HD2	1.80	0.46
4:AG:165:SER:C	4:AG:166:LYS:HD2	2.41	0.46
4:AG:226:ASN:O	4:AG:229:ARG:HG2	2.15	0.46
3:AH:16:ILE:HD13	3:AH:226:ASN:HD22	1.79	0.46
4:AM:220:GLU:OE1	4:AM:220:GLU:N	2.42	0.46
5:B1:263:PHE:N	5:B1:266:ARG:HH21	2.14	0.46
5:B2:299:ARG:NE	5:B3:46:ARG:HH11	2.13	0.46
5:B3:129:VAL:C	5:B4:11:ARG:HE	2.23	0.46
5:B3:145:GLU:O	5:B3:149:LYS:HG2	2.15	0.46
5:B7:203:VAL:O	5:B7:207:ARG:NH2	2.48	0.46
5:B8:17:TRP:CH2	5:B9:272:MET:HE1	2.51	0.46
3:BB:91:VAL:HG11	3:BB:116:VAL:HG12	1.96	0.46
3:BD:152:ILE:O	3:BD:156:ARG:HG2	2.15	0.46
3:BD:246:LEU:HD22	3:BD:354:CYS:HA	1.97	0.46
3:BD:318:ARG:HD3	3:BD:358:PRO:HG3	1.97	0.46
3:BD:357:PRO:O	3:BD:359:ARG:NH1	2.43	0.46
3:BD:378:PHE:CD1	3:BD:419:VAL:HG22	2.49	0.46
4:BE:262:TYR:OH	3:BF:391:ARG:O	2.32	0.46
3:BF:114:ASP:OD1	3:BF:115:SER:N	2.47	0.46
3:BH:197:ASP:OD1	3:BH:198:GLU:N	2.47	0.46
3:BJ:152:ILE:HD12	3:BJ:195:ASN:HB2	1.97	0.46
4:BK:19:ALA:O	4:BK:23:LEU:N	2.35	0.46
3:BL:361:LEU:HB3	14:G6:93:ARG:NH2	2.30	0.46
4:BM:19:ALA:O	4:BM:23:LEU:N	2.35	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BM:122:ILE:O	4:BM:126:ALA:N	2.45	0.46
6:C:40:LEU:HB3	6:C:42:ARG:HH12	1.79	0.46
7:C2:389:LYS:HZ2	7:C2:430:THR:HG22	1.80	0.46
7:C2:438:LEU:O	7:C2:441:SER:OG	2.29	0.46
7:C3:202:ARG:CZ	7:C3:472:LYS:HD2	2.45	0.46
7:C3:281:VAL:C	7:C4:394:LYS:HE2	2.40	0.46
7:C3:360:LYS:O	7:C3:363:THR:OG1	2.30	0.46
7:C3:476:MET:SD	7:C3:477:ARG:HG2	2.55	0.46
7:C5:430:THR:O	7:C5:434:LEU:HG	2.15	0.46
7:C5:435:GLN:HA	7:C5:438:LEU:HG	1.96	0.46
7:C6:121:ARG:NH2	10:E1:168:PRO:HD2	2.30	0.46
7:C6:281:VAL:HA	7:C7:398:THR:HG21	1.97	0.46
7:C7:171:THR:HG21	7:C7:251:GLN:NE2	2.29	0.46
7:C7:200:PHE:HZ	7:Cb:248:ARG:HG2	1.80	0.46
7:C7:309:LEU:HD23	7:C7:312:GLN:NE2	2.29	0.46
7:C9:227:LEU:HA	7:C9:230:GLN:NE2	2.30	0.46
7:C9:248:ARG:HH21	7:Cd:197:GLU:HA	1.79	0.46
7:C9:374:GLN:O	7:C9:377:MET:HG2	2.15	0.46
3:CD:139:LEU:HD21	3:CD:170:VAL:HA	1.97	0.46
3:CD:271:ALA:HB2	3:CD:365:ALA:HB3	1.97	0.46
3:CD:309:ARG:H	3:CD:372:THR:HG1	1.55	0.46
4:CE:206:ASN:HA	4:CE:209:ILE:HD12	1.96	0.46
4:CG:10:GLY:O	4:CG:14:VAL:HG13	2.15	0.46
4:CG:139:HIS:HE1	4:CG:168:GLU:HB2	1.80	0.46
4:CG:154:MET:HE2	4:CG:194:THR:HG22	1.96	0.46
3:CH:309:ARG:HH21	3:CH:426:GLN:HG2	1.80	0.46
4:CI:88:HIS:CE1	4:CI:121:ARG:HH22	2.33	0.46
3:CJ:362:LYS:C	3:CJ:363:MET:HE2	2.39	0.46
4:CM:264:ARG:HG2	4:CM:265:ILE:N	2.30	0.46
7:Ca:399:ARG:HE	7:Cb:274:LEU:HD21	1.80	0.46
7:Cc:164:LEU:O	7:Cc:168:ILE:HG12	2.15	0.46
7:Cc:194:VAL:O	7:Cc:197:GLU:HG3	2.14	0.46
7:Cc:410:GLU:HG3	7:Cd:264:ALA:CB	2.45	0.46
7:Cd:126:ARG:CZ	7:Cd:126:ARG:HA	2.45	0.46
8:D2:53:ARG:CZ	8:D3:168:VAL:HG23	2.45	0.46
8:D2:136:LEU:HB3	8:D2:140:ARG:HH12	1.78	0.46
4:DA:109:THR:O	4:DA:112:LYS:NZ	2.48	0.46
4:DC:85:GLN:OE1	4:DC:85:GLN:N	2.33	0.46
4:DG:89:PRO:HD2	4:EG:280:LYS:NZ	2.28	0.46
4:DG:224:TYR:HA	4:DG:227:LEU:HB2	1.96	0.46
4:DG:287:SER:OG	4:DG:290:GLU:OE1	2.22	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DH:189:VAL:HA	3:DH:192:LEU:HB2	1.96	0.46
3:DJ:11:GLN:HE21	39:DJ:501:GTP:H3'	1.80	0.46
3:DJ:131:GLN:HB3	3:DJ:163:ILE:HD12	1.98	0.46
3:DL:249:ASP:O	3:DL:253:LEU:HG	2.15	0.46
10:E4:52:THR:OG1	10:E4:53:PRO:HD3	2.15	0.46
4:EA:317:MET:HE1	4:EA:351:PHE:HB2	1.97	0.46
4:EC:90:GLU:HG2	4:EC:121:ARG:CZ	2.45	0.46
3:ED:132:GLY:HA3	3:ED:163:ILE:H	1.80	0.46
4:EE:200:CYS:HA	4:EE:266:HIS:HB2	1.95	0.46
3:EF:17:GLY:HA2	3:EF:20:PHE:HB3	1.97	0.46
4:EG:405:VAL:O	4:EG:409:VAL:HG22	2.14	0.46
3:EH:324:LYS:HE2	4:EI:222:PRO:HG2	1.97	0.46
4:EI:430:LYS:O	4:EI:433:GLU:HG2	2.14	0.46
3:EJ:328:GLU:OE2	3:EJ:329:GLN:NE2	2.48	0.46
3:EL:119:VAL:O	3:EL:122:LYS:HG3	2.15	0.46
11:F2:404:ASN:O	11:F2:406:GLU:N	2.48	0.46
11:F5:147:SER:HB2	11:Fa:136:GLU:CD	2.40	0.46
11:F5:251:GLU:CA	11:F5:254:ILE:HG12	2.42	0.46
11:F6:217:ARG:O	11:F6:221:LEU:HD23	2.14	0.46
11:F7:361:LEU:HD12	11:F7:455:LEU:HD22	1.98	0.46
4:FC:42:ILE:HG12	4:FC:55:GLU:OE2	2.16	0.46
4:FC:47:ASP:HB3	4:FC:49:PHE:CE2	2.50	0.46
4:FC:118:VAL:HA	4:FC:121:ARG:HG2	1.98	0.46
3:FD:17:GLY:HA2	3:FD:20:PHE:HB3	1.97	0.46
3:FD:176:SER:O	3:FD:178:THR:N	2.47	0.46
3:FF:251:ARG:O	3:FF:255:VAL:HG22	2.15	0.46
3:FH:6:HIS:HE1	3:FH:8:GLN:HB2	1.80	0.46
4:FI:208:ALA:H	4:FI:304:LYS:NZ	2.14	0.46
4:FI:272:TYR:CZ	4:FI:274:PRO:HG2	2.50	0.46
4:FI:411:GLU:OE2	4:FI:413:MET:HE1	2.14	0.46
4:FK:346:TRP:CD1	3:FL:390:ARG:HH12	2.33	0.46
11:Fc:197:ASN:HA	11:Fc:200:LYS:HE2	1.96	0.46
12:G:160:ARG:NH2	3:GL:224:ASP:OD1	2.47	0.46
12:G:215:ARG:HA	12:G:218:GLN:HG2	1.97	0.46
13:G1:210:ASP:HB3	13:G1:213:THR:HG23	1.95	0.46
13:G1:280:GLU:CD	13:G1:283:ASN:HD22	2.23	0.46
13:G2:474:LYS:NZ	13:G2:489:ASP:OD2	2.45	0.46
13:G2:509:ASP:OD1	13:G2:510:GLU:N	2.47	0.46
14:G4:462:THR:HG22	14:G4:485:ARG:N	2.29	0.46
14:G4:580:ASN:HA	14:G4:583:ARG:CZ	2.44	0.46
14:G4:671:ASP:O	14:G4:674:LEU:HB3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G5:659:ARG:HB2	14:G5:663:LYS:NZ	2.30	0.46
14:G6:356:CYS:HB2	14:G6:360:THR:OG1	2.15	0.46
4:GA:7:ILE:N	4:GA:136:LEU:O	2.37	0.46
4:GA:317:MET:HE1	4:GA:351:PHE:HB2	1.96	0.46
4:GA:405:VAL:O	4:GA:409:VAL:HG22	2.15	0.46
3:GB:295:ASP:HB2	3:GB:298:ASN:HB2	1.96	0.46
4:GC:196:GLU:HG2	4:GC:197:HIS:ND1	2.31	0.46
3:GD:12:CYS:SG	39:GD:501:GTP:H5'	2.54	0.46
3:GD:214:THR:HG23	3:GD:215:LEU:HD12	1.97	0.46
4:GE:53:PHE:CD2	4:GE:61:HIS:HB3	2.50	0.46
3:GF:120:VAL:O	3:GF:124:ALA:N	2.42	0.46
3:GF:378:PHE:CD1	3:GF:419:VAL:HG22	2.50	0.46
4:GG:76:ASP:HA	4:GG:79:ARG:HH11	1.79	0.46
4:GG:107:HIS:HA	4:GG:152:LEU:HD23	1.97	0.46
4:GI:2:ARG:HA	4:GI:133:GLN:HE22	1.79	0.46
3:GJ:299:MET:HE2	3:GJ:303:CYS:C	2.41	0.46
4:GK:397:LEU:O	4:GK:401:LYS:HG2	2.15	0.46
3:GL:123:GLU:OE1	3:GL:123:GLU:N	2.46	0.46
3:GL:133:PHE:N	3:GL:163:ILE:O	2.37	0.46
3:GL:309:ARG:H	3:GL:372:THR:HG1	1.59	0.46
3:GL:375:GLN:HA	3:GL:378:PHE:CZ	2.50	0.46
12:H:467:GLU:OE2	12:H:467:GLU:N	2.48	0.46
15:H3:212:LEU:HD23	15:H3:212:LEU:H	1.80	0.46
3:HB:234:SER:O	3:HB:238:THR:HG23	2.15	0.46
3:HH:8:GLN:OE1	3:HH:8:GLN:N	2.48	0.46
3:HL:148:GLY:O	3:HL:152:ILE:HG12	2.15	0.46
4:IA:208:ALA:HA	4:IA:211:ASP:HB2	1.96	0.46
4:IC:117:LEU:O	4:IC:121:ARG:HG2	2.15	0.46
4:IE:132:LEU:HD13	4:IE:164:LYS:HE2	1.97	0.46
4:IE:317:MET:HB2	4:IE:375:VAL:HG21	1.97	0.46
3:IF:184:ASN:O	3:IF:188:SER:N	2.41	0.46
4:IG:103:TYR:HB2	4:IG:186:ASN:HB2	1.97	0.46
3:IH:12:CYS:O	3:IH:15:GLN:N	2.48	0.46
3:IH:137:HIS:O	3:IH:168:SER:HA	2.15	0.46
4:II:331:ALA:O	4:II:335:ILE:HG12	2.15	0.46
3:IJ:324:LYS:HE2	4:IK:222:PRO:HG2	1.96	0.46
4:IM:213:CYS:SG	4:IM:222:PRO:HG3	2.55	0.46
18:J:124:LEU:O	18:J:124:LEU:HD12	2.15	0.46
19:J1:180:GLU:HA	19:J1:183:ALA:HB3	1.97	0.46
19:J2:55:ALA:HA	19:J2:71:PRO:HA	1.98	0.46
19:J3:118:ALA:O	19:J3:122:LYS:HG2	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:JC:255:PHE:O	4:JC:259:LEU:HB2	2.14	0.46
4:JC:320:ARG:HG2	4:JC:358:GLN:O	2.14	0.46
3:JD:3:GLU:HG2	3:JD:130:LEU:HD23	1.97	0.46
3:JD:78:SER:HB3	38:a:42:ARG:HE	1.79	0.46
3:JF:3:GLU:HG2	3:JF:130:LEU:HD23	1.96	0.46
3:JH:31:ASP:OD2	3:JH:35:THR:OG1	2.32	0.46
3:JL:309:ARG:N	3:JL:372:THR:OG1	2.30	0.46
21:K3:393:LEU:O	21:K3:395:ARG:HD2	2.14	0.46
21:K4:46:MET:HE2	21:K4:108:ARG:NH1	2.30	0.46
21:K4:337:ALA:HA	21:K4:340:MET:HG3	1.96	0.46
4:KC:287:SER:N	4:KC:290:GLU:OE2	2.49	0.46
3:KD:324:LYS:HD3	4:KE:210:TYR:HE1	1.79	0.46
4:KE:239:THR:OG1	4:KE:243:ARG:NH1	2.48	0.46
4:KG:321:GLY:N	4:KG:356:ASN:O	2.32	0.46
4:KI:216:ASN:ND2	4:KI:275:VAL:O	2.48	0.46
4:KI:331:ALA:O	4:KI:334:THR:OG1	2.25	0.46
4:KK:163:LYS:HA	4:KK:163:LYS:HD3	1.68	0.46
22:L3:43:LYS:NZ	3:MH:334:GLN:HG3	2.30	0.46
3:LB:77:ARG:HD3	3:LB:90:PHE:HE2	1.80	0.46
3:LB:277:GLY:O	3:LB:280:GLN:NE2	2.48	0.46
4:LC:371:VAL:HG11	4:LC:374:ALA:HB2	1.97	0.46
3:LD:293:MET:HE3	3:LD:367:PHE:HB2	1.97	0.46
4:LE:16:ILE:HG22	4:LE:228:ASN:OD1	2.15	0.46
3:LF:228:LEU:O	3:LF:232:THR:HG23	2.15	0.46
3:LF:427:ASP:HA	24:M2:67:ARG:NH2	2.30	0.46
4:LG:331:ALA:O	4:LG:334:THR:OG1	2.25	0.46
4:LI:24:TYR:O	4:LI:28:HIS:ND1	2.43	0.46
4:LI:192:HIS:CE1	4:LI:193:THR:HG23	2.51	0.46
4:LK:311:LYS:NZ	4:LK:343:PHE:O	2.48	0.46
3:MB:12:CYS:HB3	39:MB:501:GTP:H5'	1.96	0.46
4:MC:225:THR:O	4:MC:229:ARG:HB2	2.15	0.46
4:ME:272:TYR:CZ	4:ME:274:PRO:HG2	2.50	0.46
3:MH:273:LEU:H	3:MH:292:GLN:NE2	2.13	0.46
3:MH:305:PRO:HA	3:MH:373:ALA:HB2	1.97	0.46
3:MH:319:GLY:N	3:MH:321:MET:HE1	2.30	0.46
3:MJ:217:LEU:O	3:MJ:219:THR:N	2.47	0.46
4:MK:161:TYR:O	4:MK:166:LYS:NZ	2.43	0.46
4:MM:16:ILE:HG22	4:MM:228:ASN:OD1	2.15	0.46
26:N3:166:PHE:HZ	4:WI:214:ARG:HA	1.80	0.46
4:NA:260:VAL:HG23	4:NA:265:ILE:O	2.15	0.46
4:NC:220:GLU:O	4:NC:221:ARG:NE	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:NC:265:ILE:HD12	4:NC:432:TYR:CE1	2.50	0.46
3:ND:292:GLN:HA	3:ND:295:ASP:OD2	2.15	0.46
4:NE:36:MET:HE2	4:NE:36:MET:HA	1.95	0.46
3:NF:46:ARG:HH22	4:NG:73:THR:HA	1.80	0.46
4:NG:115:VAL:HA	4:NG:118:VAL:HG22	1.98	0.46
4:NI:323:VAL:HG21	4:NI:355:ILE:HD12	1.97	0.46
3:NL:380:ARG:O	3:NL:384:GLN:HG2	2.15	0.46
28:O3:84:ARG:N	28:O3:118:PHE:HZ	2.13	0.46
4:OA:207:GLU:HB2	4:OA:304:LYS:NZ	2.29	0.46
3:OB:148:GLY:O	3:OB:151:LEU:N	2.48	0.46
3:OB:199:THR:N	3:OB:264:HIS:O	2.48	0.46
3:OB:394:PHE:HA	3:OB:397:TRP:HZ3	1.80	0.46
4:OC:263:PRO:HD3	3:OD:396:HIS:CD2	2.50	0.46
3:OD:48:ASN:HA	3:OD:51:TYR:O	2.14	0.46
3:OD:318:ARG:N	3:OD:364:SER:O	2.41	0.46
4:OE:176:GLN:NE2	4:OE:177:VAL:HG23	2.30	0.46
3:OF:7:LEU:HD13	3:OF:64:VAL:HB	1.97	0.46
4:OG:9:VAL:HG23	4:OG:149:PHE:HD2	1.80	0.46
3:OH:186:THR:HG21	3:OH:385:PHE:HD2	1.79	0.46
4:OI:15:GLN:HG2	4:OI:16:ILE:N	2.31	0.46
4:OI:54:SER:H	4:OI:62:VAL:H	1.62	0.46
4:OK:3:GLU:CD	4:OK:131:GLY:H	2.23	0.46
29:P3:221:TYR:HA	29:P3:230:LEU:O	2.16	0.46
29:P3:288:GLN:NE2	29:P3:289:LEU:O	2.44	0.46
4:PC:414:GLU:HG2	4:PC:417:GLU:OE1	2.15	0.46
4:PE:260:VAL:O	3:PF:397:TRP:HH2	1.99	0.46
4:PG:331:ALA:O	4:PG:334:THR:OG1	2.23	0.46
4:PI:46:ASP:OD1	4:PI:50:ASN:ND2	2.42	0.46
4:PI:99:ALA:HB2	4:PI:149:PHE:CE2	2.50	0.46
4:PI:185:TYR:HA	4:PI:395:PHE:HE1	1.79	0.46
4:PI:216:ASN:HD21	4:PI:275:VAL:HG23	1.80	0.46
4:PI:286:LEU:HD11	4:PI:373:ARG:H	1.80	0.46
3:PJ:252:LYS:O	3:PJ:256:ASN:ND2	2.48	0.46
4:PK:178:SER:OG	4:PK:180:ALA:O	2.33	0.46
4:PK:413:MET:HB3	4:PK:417:GLU:OE2	2.15	0.46
4:PK:423:GLU:HA	4:PK:426:ALA:HB3	1.97	0.46
3:PL:131:GLN:HB3	3:PL:163:ILE:HD12	1.97	0.46
30:Q1:1415:MET:SD	30:Q1:1418:MET:HB3	2.55	0.46
30:Q3:1414:LEU:HA	30:Q3:1418:MET:HE3	1.97	0.46
3:QB:318:ARG:HA	3:QB:354:CYS:HB3	1.96	0.46
3:QF:145:SER:HB2	3:QF:188:SER:HB3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:QG:99:ALA:HB2	4:QG:149:PHE:CE2	2.50	0.46
4:QI:5:ILE:HD13	4:QI:64:ARG:HB3	1.97	0.46
4:QI:118:VAL:HA	4:QI:121:ARG:HG2	1.97	0.46
3:QJ:101:TRP:CE3	3:QJ:187:LEU:HD13	2.50	0.46
3:QJ:372:THR:HG21	3:QJ:426:GLN:HG3	1.97	0.46
3:QL:70:PRO:HA	3:QL:73:MET:HE2	1.96	0.46
31:R3:137:GLU:HA	31:R3:140:LEU:HD12	1.97	0.46
31:R3:141:TYR:HA	31:R3:144:LEU:HD12	1.97	0.46
3:RB:64:VAL:HA	3:RB:89:ASN:HB3	1.96	0.46
3:RD:282:ARG:HE	3:RD:288:GLU:CD	2.23	0.46
4:RE:117:LEU:O	4:RE:121:ARG:HG2	2.15	0.46
3:RF:378:PHE:CD1	3:RF:419:VAL:HG22	2.50	0.46
4:RG:139:HIS:CD2	4:RG:170:ALA:HB2	2.50	0.46
4:RI:321:GLY:HA3	4:RI:372:GLN:O	2.15	0.46
4:RM:70:LEU:HB2	4:RM:145:THR:HG21	1.97	0.46
3:SB:130:LEU:HB2	3:SB:162:ARG:HH11	1.79	0.46
4:SC:142:GLY:HA2	4:SC:183:GLU:HG2	1.97	0.46
4:SC:405:VAL:O	4:SC:409:VAL:HG22	2.15	0.46
3:SD:381:ILE:O	3:SD:385:PHE:N	2.47	0.46
3:SH:114:ASP:N	3:SH:114:ASP:OD1	2.45	0.46
3:SH:318:ARG:HD3	3:SH:358:PRO:HG3	1.96	0.46
4:SI:122:ILE:O	4:SI:126:ALA:N	2.43	0.46
4:SI:174:ALA:HB3	4:SI:177:VAL:O	2.16	0.46
4:SI:265:ILE:HD12	4:SI:432:TYR:CE1	2.50	0.46
3:SJ:249:ASP:O	3:SJ:252:LYS:HB3	2.15	0.46
3:SJ:357:PRO:HB3	3:SJ:362:LYS:O	2.16	0.46
4:SK:32:PRO:O	4:SK:85:GLN:NE2	2.48	0.46
3:SL:350:LYS:HE3	4:SM:181:VAL:H	1.79	0.46
4:TC:2:ARG:O	4:TC:51:THR:OG1	2.27	0.46
3:TD:145:SER:HB2	3:TD:188:SER:HB3	1.97	0.46
3:TD:302:ALA:HB1	3:TD:377:LEU:HD11	1.96	0.46
4:TE:154:MET:HA	4:TE:157:LEU:HG	1.96	0.46
3:TF:8:GLN:O	3:TF:66:VAL:HG12	2.15	0.46
3:TF:176:SER:O	3:TF:178:THR:N	2.48	0.46
4:TG:346:TRP:NE1	3:TH:391:ARG:HH11	2.12	0.46
3:TH:204:ASN:OD1	3:TH:205:GLU:N	2.48	0.46
4:TI:216:ASN:OD1	4:TI:217:LEU:N	2.48	0.46
3:TJ:217:LEU:HD23	3:TJ:217:LEU:O	2.15	0.46
3:TN:12:CYS:SG	39:TN:501:GTP:H5'	2.55	0.46
3:UD:12:CYS:HA	39:UD:501:GTP:N2	2.30	0.46
4:UE:47:ASP:HB3	4:UE:49:PHE:CE2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UE:386:GLU:HA	4:UE:389:ALA:HB3	1.96	0.46
3:UF:249:ASP:O	3:UF:253:LEU:HG	2.16	0.46
4:VA:385:ALA:HB2	4:VA:432:TYR:CD2	2.50	0.46
3:VB:39:ASP:OD1	3:VB:39:ASP:N	2.47	0.46
3:VB:261:PRO:HD3	4:VC:406:HIS:CG	2.50	0.46
3:VB:390:ARG:HH12	3:VB:391:ARG:NH2	2.13	0.46
4:VC:10:GLY:O	4:VC:14:VAL:HG13	2.15	0.46
3:VD:152:ILE:O	3:VD:156:ARG:HG2	2.15	0.46
4:VE:154:MET:HE1	4:VE:197:HIS:HB2	1.97	0.46
3:VF:292:GLN:O	3:VF:298:ASN:ND2	2.47	0.46
4:VI:287:SER:OG	4:VI:290:GLU:OE1	2.29	0.46
4:VI:329:ASN:OD1	4:VI:330:ALA:N	2.49	0.46
4:VK:36:MET:HE3	4:VK:36:MET:HA	1.97	0.46
4:VK:70:LEU:HA	4:VK:95:GLY:HA3	1.97	0.46
4:WA:104:ALA:HA	4:WA:107:HIS:HB3	1.97	0.46
3:WD:156:ARG:NH1	3:WD:195:ASN:O	2.47	0.46
3:WF:32:PRO:C	3:WF:83:GLN:HE21	2.23	0.46
4:WG:52:PHE:CZ	4:WG:239:THR:HB	2.50	0.46
4:WG:423:GLU:HA	4:WG:426:ALA:HB3	1.97	0.46
4:WI:209:ILE:HG23	4:WI:230:LEU:HD21	1.97	0.46
3:WJ:80:PRO:O	3:WJ:83:GLN:NE2	2.40	0.46
3:WJ:309:ARG:HH22	3:WJ:344:TRP:HZ3	1.62	0.46
34:XC:27:LYS:HD3	34:XC:59:ILE:HD13	1.97	0.46
34:XC:92:GLN:HE21	34:XC:100:ARG:HB3	1.79	0.46
34:XG:83:LEU:O	34:XG:85:LYS:NZ	2.26	0.46
35:XH:168:GLU:O	35:XH:171:LEU:HD12	2.15	0.46
35:XI:153:LEU:HD23	35:XI:156:LEU:HD12	1.96	0.46
37:YB:59:ASN:HB2	37:YB:62:HIS:ND1	2.30	0.46
37:YH:18:PHE:CE1	37:YH:22:GLN:HA	2.50	0.46
37:YI:113:LEU:HB3	37:YI:136:GLY:HA2	1.97	0.46
37:YJ:119:HIS:O	37:YJ:119:HIS:CG	2.67	0.46
37:YO:25:PHE:HE1	37:YO:66:LEU:HA	1.79	0.46
37:YP:5:LYS:HE2	37:YP:8:LEU:HD23	1.97	0.46
37:YT:90:THR:N	37:YT:93:THR:OG1	2.48	0.46
37:YW:4:VAL:HG13	37:YW:79:LEU:HD23	1.96	0.46
37:YW:15:TYR:OH	37:YW:141:ILE:HG21	2.15	0.46
2:A2:356:ALA:O	2:A2:359:GLN:HG3	2.15	0.46
2:A3:122:ARG:HB3	2:A3:126:ASP:O	2.15	0.46
2:A4:160:GLN:OE1	2:A4:231:GLN:NE2	2.45	0.46
3:AB:11:GLN:O	3:AB:14:ASN:HB2	2.15	0.46
3:AB:32:PRO:O	3:AB:83:GLN:NE2	2.42	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:40:SER:HB3	3:AB:42:LEU:HD23	1.97	0.46
3:AB:372:THR:HG21	3:AB:426:GLN:HG3	1.97	0.46
4:AC:345:ASP:N	4:AC:345:ASP:OD1	2.48	0.46
4:AC:411:GLU:OE2	4:AC:413:MET:HE1	2.14	0.46
3:AD:6:HIS:HE1	3:AD:8:GLN:HB2	1.80	0.46
3:AD:12:CYS:O	3:AD:16:ILE:HG12	2.16	0.46
3:AD:218:THR:OG1	3:AD:219:THR:N	2.48	0.46
3:AD:324:LYS:HE2	4:AE:222:PRO:CG	2.46	0.46
4:AG:333:ALA:HA	4:AG:336:LYS:HD2	1.97	0.46
4:AI:141:PHE:CD2	4:AI:172:TYR:HA	2.49	0.46
4:AI:230:LEU:O	4:AI:233:GLN:HG3	2.15	0.46
4:AI:265:ILE:HA	4:AI:267:PHE:CE2	2.50	0.46
4:AI:352:LYS:NZ	3:AJ:178:THR:HA	2.31	0.46
3:AJ:130:LEU:HB2	3:AJ:162:ARG:HH11	1.80	0.46
4:AK:274:PRO:HG3	4:AK:374:ALA:HA	1.97	0.46
3:AL:12:CYS:SG	3:AL:13:GLY:N	2.88	0.46
3:AL:31:ASP:OD2	3:AL:35:THR:OG1	2.30	0.46
3:AL:205:GLU:HA	3:AL:208:TYR:HD2	1.79	0.46
5:B5:11:ARG:HB3	5:B6:130:ARG:HH22	1.79	0.46
5:B7:23:LEU:HA	5:B7:26:THR:HG22	1.96	0.46
5:B7:157:GLN:HA	5:B7:160:GLN:OE1	2.15	0.46
3:BB:224:ASP:O	3:BB:228:LEU:HG	2.15	0.46
3:BB:376:GLU:H	3:BB:376:GLU:CD	2.22	0.46
4:BC:70:LEU:HB3	4:BC:97:GLU:O	2.15	0.46
4:BC:269:LEU:N	4:BC:379:SER:O	2.36	0.46
3:BD:249:ASP:O	3:BD:253:LEU:HG	2.15	0.46
4:BE:265:ILE:HD12	4:BE:432:TYR:CE1	2.50	0.46
4:BG:187:SER:O	4:BG:190:THR:OG1	2.30	0.46
4:BG:260:VAL:O	3:BH:397:TRP:HH2	1.98	0.46
4:BG:326:LYS:HG3	3:BH:220:PRO:HD2	1.96	0.46
3:BH:114:ASP:OD1	3:BH:115:SER:N	2.45	0.46
3:BJ:268:PRO:HD2	3:BJ:301:ALA:HB2	1.98	0.46
3:BL:92:PHE:HE1	14:G6:307:TYR:CD2	2.33	0.46
4:BM:88:HIS:HA	4:CM:283:HIS:HE1	1.80	0.46
4:BM:213:CYS:O	4:BM:218:ASP:N	2.49	0.46
7:C4:364:HIS:HA	7:C4:367:LYS:HZ3	1.80	0.46
7:C7:363:THR:HG22	7:C7:367:LYS:NZ	2.30	0.46
3:CD:117:LEU:HD11	3:CD:154:LYS:HD2	1.97	0.46
3:CD:246:LEU:HD22	3:CD:354:CYS:HA	1.96	0.46
4:CE:345:ASP:OD1	4:CE:345:ASP:N	2.49	0.46
3:CF:70:PRO:HA	3:CF:73:MET:HG2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CG:189:LEU:HA	4:CG:192:HIS:HD1	1.80	0.46
3:CH:11:GLN:HG3	39:CH:501:GTP:PA	2.54	0.46
3:CJ:3:GLU:HG2	3:CJ:130:LEU:HD13	1.97	0.46
4:CK:132:LEU:HD13	4:CK:164:LYS:HE2	1.97	0.46
4:CK:187:SER:O	4:CK:190:THR:OG1	2.23	0.46
4:CK:188:ILE:HG12	4:CK:421:ALA:HB1	1.97	0.46
4:CK:252:LEU:HA	4:CK:255:PHE:HD2	1.80	0.46
3:CL:51:TYR:CD1	3:CL:61:PRO:HA	2.50	0.46
3:CL:156:ARG:CZ	3:CL:164:MET:HE3	2.45	0.46
3:CL:173:PRO:HD3	3:CL:203:ASP:OD1	2.15	0.46
3:CL:238:THR:HB	3:CL:242:PHE:CD2	2.49	0.46
4:CM:203:MET:HE1	4:CM:267:PHE:HB3	1.97	0.46
4:CM:386:GLU:O	4:CM:390:ARG:HG2	2.16	0.46
7:Cc:387:LYS:O	7:Cc:390:SER:OG	2.29	0.46
6:D:274:GLY:O	6:D:278:ILE:N	2.37	0.46
8:D2:117:LEU:HA	8:D2:120:GLU:HG3	1.97	0.46
8:D2:191:LYS:O	8:D2:194:ILE:HG22	2.15	0.46
8:D4:60:SER:O	8:D4:64:TYR:HD1	1.99	0.46
8:D4:238:VAL:HG22	8:D5:351:ARG:CG	2.41	0.46
4:DA:208:ALA:HA	4:DA:211:ASP:HB2	1.98	0.46
3:DB:309:ARG:HE	3:DB:426:GLN:HE21	1.63	0.46
4:DC:11:GLN:HG3	39:DC:501:GTP:O1B	2.15	0.46
3:DD:378:PHE:CD1	3:DD:419:VAL:HG22	2.50	0.46
4:DG:75:VAL:HB	4:DG:79:ARG:NH2	2.30	0.46
3:DH:53:GLU:O	3:EH:283:ALA:HB2	2.15	0.46
3:DJ:111:GLU:OE1	3:DJ:111:GLU:N	2.45	0.46
4:DK:248:LEU:HD21	39:DL:501:GTP:C5	2.50	0.46
4:DK:346:TRP:HE1	3:DL:391:ARG:NH1	2.12	0.46
4:EA:14:VAL:HA	4:EA:67:PHE:HE1	1.81	0.46
4:EC:265:ILE:HD12	4:EC:432:TYR:CE1	2.50	0.46
4:EK:102:ASN:HB3	4:EK:105:ARG:HB2	1.98	0.46
3:EL:289:LEU:O	3:EL:293:MET:N	2.40	0.46
3:EL:375:GLN:CD	3:EL:375:GLN:H	2.24	0.46
9:F:304:ARG:NH2	3:HJ:55:THR:O	2.47	0.46
11:F2:308:GLN:HA	11:F2:311:ARG:HD3	1.98	0.46
11:F2:370:GLN:O	11:F2:374:THR:HG23	2.15	0.46
11:F3:376:MET:O	11:F3:379:GLU:HG3	2.16	0.46
11:F4:252:ARG:NH1	11:F4:256:ASP:OD1	2.44	0.46
11:F6:370:GLN:O	11:F6:374:THR:HG23	2.15	0.46
11:F7:325:PHE:O	11:F7:328:LEU:HG	2.15	0.46
11:F8:416:LEU:HA	11:F8:419:GLU:HG3	1.95	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:F9:206:LEU:HD23	11:Fa:89:ARG:NH1	2.30	0.46
4:FA:176:GLN:NE2	4:FA:177:VAL:HG23	2.31	0.46
4:FC:70:LEU:HA	4:FC:95:GLY:HA3	1.95	0.46
4:FC:188:ILE:HD11	4:FC:425:LEU:HB2	1.97	0.46
4:FC:216:ASN:ND2	4:FC:275:VAL:O	2.48	0.46
4:FE:154:MET:HE3	4:FE:194:THR:HG22	1.96	0.46
3:FF:52:ASN:OD1	3:FF:62:ARG:NH1	2.48	0.46
4:FG:216:ASN:OD1	4:FG:217:LEU:N	2.48	0.46
3:FJ:61:PRO:HD3	3:FJ:84:ILE:HG13	1.97	0.46
4:FK:67:PHE:HB2	4:FK:92:LEU:HD13	1.97	0.46
4:FK:145:THR:OG1	39:FK:501:GTP:O1B	2.33	0.46
4:FK:154:MET:HE1	4:FK:197:HIS:HB2	1.97	0.46
3:FL:81:PHE:O	3:FL:84:ILE:HG22	2.16	0.46
3:FL:309:ARG:NE	3:FL:426:GLN:HE21	2.09	0.46
11:Fe:177:LEU:HD22	11:Fe:236:ILE:HD11	1.95	0.46
11:Fe:300:SER:O	11:Fe:304:ILE:HG12	2.16	0.46
11:Fg:205:ASP:HB3	11:Fg:461:THR:OG1	2.15	0.46
11:Fg:244:ARG:O	11:Fg:248:HIS:ND1	2.48	0.46
11:Fi:162:ARG:NE	11:Fi:311:ARG:HH22	2.13	0.46
11:Fl:349:GLU:O	11:Fl:353:VAL:HG23	2.15	0.46
11:Fl:375:ILE:HD12	11:Fl:434:LEU:HG	1.97	0.46
11:Fm:135:GLN:O	11:Fm:138:THR:OG1	2.33	0.46
12:G:134:THR:HB	12:G:138:ARG:HH21	1.80	0.46
13:G1:39:VAL:HB	13:G1:41:ARG:HH22	1.79	0.46
13:G1:80:ALA:HB1	13:G1:83:ALA:HB3	1.97	0.46
13:G1:303:GLU:OE1	13:G1:303:GLU:N	2.47	0.46
13:G3:153:ARG:HB3	13:G3:162:HIS:ND1	2.29	0.46
14:G4:281:ARG:O	14:G4:281:ARG:HD3	2.16	0.46
14:G6:387:GLU:OE2	14:G6:389:LYS:HE3	2.16	0.46
14:G6:527:GLU:HG2	14:G6:528:TYR:N	2.31	0.46
4:GA:119:LEU:HA	4:GA:122:ILE:HG12	1.98	0.46
4:GA:139:HIS:O	4:GA:170:ALA:HA	2.14	0.46
4:GA:260:VAL:HG23	4:GA:265:ILE:O	2.15	0.46
4:GC:72:PRO:HA	4:GC:75:VAL:HG12	1.97	0.46
3:GD:32:PRO:C	3:GD:83:GLN:HE21	2.23	0.46
4:GE:117:LEU:O	4:GE:121:ARG:HG2	2.16	0.46
4:GE:291:ILE:HD11	4:GE:319:TYR:HE2	1.79	0.46
3:GF:28:HIS:ND1	3:GF:43:GLN:HB2	2.30	0.46
3:GF:255:VAL:HG12	4:GG:407:TRP:CE3	2.50	0.46
4:GG:271:THR:O	4:GG:377:MET:N	2.25	0.46
3:GH:51:TYR:CD1	3:GH:61:PRO:HA	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:GI:154:MET:HA	4:GI:157:LEU:HG	1.97	0.46
4:GI:396:ASP:OD1	4:GI:397:LEU:N	2.48	0.46
3:GJ:19:LYS:NZ	3:GJ:227:HIS:HB2	2.30	0.46
3:GJ:321:MET:HE1	3:GJ:363:MET:HA	1.97	0.46
4:GK:55:GLU:HA	4:GK:60:LYS:O	2.15	0.46
15:H1:277:ARG:HG3	15:H1:279:GLN:H	1.80	0.46
15:H1:301:GLY:O	15:H1:304:THR:OG1	2.26	0.46
15:H2:213:ILE:O	15:H2:213:ILE:HG13	2.15	0.46
15:H2:306:ARG:HG3	15:H2:307:ALA:N	2.30	0.46
15:H4:292:MET:SD	15:H4:293:GLN:NE2	2.88	0.46
15:H5:212:LEU:HD23	15:H5:212:LEU:H	1.81	0.46
4:HA:411:GLU:OE2	4:HA:413:MET:HE1	2.15	0.46
4:HC:70:LEU:HB3	4:HC:97:GLU:O	2.15	0.46
4:HC:88:HIS:HE1	4:HC:90:GLU:HG2	1.80	0.46
3:HD:12:CYS:HA	3:HD:15:GLN:OE1	2.15	0.46
3:HF:111:GLU:HG2	3:HF:112:LEU:HD22	1.97	0.46
3:HH:324:LYS:HD2	4:HI:221:ARG:HA	1.97	0.46
3:HH:350:LYS:HE3	4:HI:181:VAL:H	1.80	0.46
3:HJ:269:GLY:HA3	3:HJ:367:PHE:HB3	1.96	0.46
3:HL:103:LYS:HD2	3:HL:107:THR:HB	1.97	0.46
4:IA:317:MET:HE3	4:IA:377:MET:HE1	1.97	0.46
4:IC:334:THR:O	4:IC:337:THR:OG1	2.27	0.46
3:ID:204:ASN:OD1	3:ID:205:GLU:N	2.47	0.46
4:IE:208:ALA:N	4:IE:304:LYS:HZ1	2.11	0.46
4:IE:318:LEU:O	4:IE:318:LEU:HD12	2.15	0.46
4:IG:3:GLU:CD	4:IG:131:GLY:H	2.24	0.46
3:IH:309:ARG:N	3:IH:372:THR:OG1	2.26	0.46
4:IK:11:GLN:HB3	4:IK:69:ASP:OD2	2.15	0.46
3:IL:150:LEU:O	3:IL:153:SER:OG	2.27	0.46
18:J:171:LEU:HD12	4:KI:364:PRO:HB2	1.96	0.46
19:J2:167:MET:HG3	19:J2:175:ILE:C	2.41	0.46
4:JA:245:ASP:O	4:JA:356:ASN:ND2	2.49	0.46
4:JA:333:ALA:HA	4:JA:336:LYS:HD2	1.96	0.46
4:JE:141:PHE:HE2	4:JE:203:MET:HG3	1.81	0.46
4:JG:22:GLU:O	4:JG:26:LEU:HD23	2.16	0.46
3:JH:152:ILE:O	3:JH:156:ARG:HG2	2.14	0.46
4:JI:165:SER:C	4:JI:166:LYS:HD2	2.40	0.46
4:JI:208:ALA:H	4:JI:304:LYS:HZ1	1.62	0.46
4:JI:345:ASP:N	4:JI:345:ASP:OD1	2.46	0.46
3:JJ:12:CYS:SG	39:JJ:501:GTP:H5'	2.54	0.46
4:JK:165:SER:C	4:JK:166:LYS:HD2	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JL:246:LEU:HB2	3:JL:352:ALA:HB1	1.98	0.46
20:K:158:LEU:HD22	20:K:161:LYS:HE2	1.96	0.46
3:KD:279:GLN:HE21	20:L:173:LEU:HD22	1.80	0.46
3:KD:292:GLN:O	3:KD:298:ASN:ND2	2.46	0.46
4:KE:325:PRO:HA	4:KE:328:VAL:HB	1.95	0.46
4:KE:333:ALA:HA	4:KE:336:LYS:HD2	1.97	0.46
3:KF:132:GLY:HA3	3:KF:163:ILE:H	1.80	0.46
4:KG:278:ALA:O	4:KG:370:LYS:NZ	2.48	0.46
4:KG:301:GLN:OE1	4:KG:301:GLN:N	2.48	0.46
4:KI:12:ALA:HB2	39:KI:501:GTP:H5"	1.96	0.46
4:KI:141:PHE:HD2	4:KI:172:TYR:HA	1.80	0.46
3:KJ:87:PRO:HA	3:KJ:90:PHE:CD2	2.50	0.46
3:KJ:316:VAL:HG22	3:KJ:352:ALA:HB3	1.97	0.46
4:KK:174:ALA:HB3	4:KK:177:VAL:O	2.15	0.46
4:KK:188:ILE:HG22	4:KK:421:ALA:HB1	1.97	0.46
4:KK:306:ASP:HB3	4:KK:309:HIS:ND1	2.30	0.46
3:KL:68:LEU:HD12	3:KL:97:ALA:HB2	1.97	0.46
3:KL:289:LEU:O	3:KL:293:MET:HB2	2.16	0.46
22:L1:200:LEU:HD11	22:L1:237:LEU:HD13	1.96	0.46
22:L2:90:LEU:HG	22:L2:93:ASP:H	1.80	0.46
22:L4:63:LEU:HD22	3:LL:194:GLU:HG3	1.97	0.46
3:LB:324:LYS:NZ	4:LC:222:PRO:O	2.40	0.46
3:LD:12:CYS:SG	3:LD:13:GLY:N	2.88	0.46
3:LD:42:LEU:HD11	3:LD:356:ILE:HG21	1.97	0.46
4:LE:318:LEU:O	4:LE:375:VAL:HA	2.16	0.46
4:LG:87:PHE:HB3	4:LG:92:LEU:HD21	1.98	0.46
4:LG:271:THR:HB	4:LG:377:MET:HB2	1.97	0.46
4:LI:2:ARG:O	4:LI:51:THR:OG1	2.17	0.46
4:LI:53:PHE:CD2	4:LI:61:HIS:HB3	2.50	0.46
4:LI:166:LYS:N	4:LI:199:ASP:OD2	2.48	0.46
4:LK:252:LEU:HA	4:LK:255:PHE:CD2	2.50	0.46
4:LK:288:VAL:HG11	4:LK:327:ASP:HB2	1.96	0.46
3:LL:6:HIS:ND1	3:LL:8:GLN:OE1	2.48	0.46
3:MB:11:GLN:HG3	39:MB:501:GTP:PA	2.54	0.46
3:MB:376:GLU:H	3:MB:376:GLU:CD	2.23	0.46
4:MC:287:SER:N	4:MC:290:GLU:OE2	2.48	0.46
3:MD:28:HIS:CD2	3:MD:43:GLN:HB2	2.50	0.46
3:MF:7:LEU:HB2	3:MF:135:LEU:HG	1.97	0.46
4:MG:202:PHE:CD1	4:MG:268:PRO:HD2	2.49	0.46
3:MH:40:SER:HB2	3:MH:43:GLN:HG2	1.97	0.46
4:MI:345:ASP:N	4:MI:345:ASP:OD1	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MI:385:ALA:HB2	4:MI:432:TYR:HD2	1.79	0.46
3:MJ:31:ASP:OD2	3:MJ:33:THR:OG1	2.33	0.46
4:MK:175:PRO:O	4:MK:390:ARG:HD3	2.15	0.46
3:ML:392:LYS:HG2	28:O3:41:ILE:HG12	1.96	0.46
4:MM:397:LEU:HD12	4:MM:398:MET:N	2.31	0.46
26:N1:161:ASN:HD22	4:WA:215:ARG:HG2	1.80	0.46
26:N3:99:ILE:HG13	26:N3:100:GLU:N	2.28	0.46
3:ND:374:ILE:HA	3:ND:377:LEU:HD13	1.98	0.46
3:NF:4:ILE:HB	3:NF:50:TYR:CE1	2.50	0.46
4:NG:288:VAL:O	4:NG:292:THR:OG1	2.29	0.46
4:NI:182:VAL:O	4:NI:185:TYR:HB2	2.15	0.46
3:NJ:389:PHE:HZ	3:NJ:405:GLU:HB2	1.81	0.46
28:O3:43:ALA:HA	28:O3:48:HIS:O	2.16	0.46
3:OB:28:HIS:O	3:OB:43:GLN:NE2	2.47	0.46
4:OI:346:TRP:HB3	3:OJ:391:ARG:NH2	2.30	0.46
3:OJ:47:ILE:HG12	3:OJ:59:TYR:CD2	2.50	0.46
4:OK:260:VAL:HG23	4:OK:265:ILE:O	2.15	0.46
29:P1:383:MET:HB3	29:P1:429:CYS:SG	2.55	0.46
29:P2:192:ARG:HH21	4:VG:37:PRO:HB3	1.79	0.46
29:P3:63:HIS:ND1	29:P3:83:GLN:HB3	2.30	0.46
3:PB:150:LEU:O	3:PB:153:SER:OG	2.26	0.46
4:PE:252:LEU:HA	4:PE:255:PHE:CD2	2.51	0.46
3:PF:58:LYS:HE2	3:QF:281:TYR:HE1	1.80	0.46
4:PI:163:LYS:HD3	4:PI:163:LYS:HA	1.76	0.46
4:PI:260:VAL:HG23	4:PI:265:ILE:O	2.15	0.46
4:PK:272:TYR:CZ	4:PK:274:PRO:HG2	2.50	0.46
4:PK:345:ASP:N	4:PK:345:ASP:OD1	2.47	0.46
3:PL:269:GLY:N	3:PL:367:PHE:O	2.48	0.46
3:PL:350:LYS:HE3	4:PM:180:ALA:HA	1.97	0.46
4:PM:70:LEU:HA	4:PM:95:GLY:HA3	1.96	0.46
30:Q1:1468:LEU:HA	30:Q1:1506:SER:HA	1.97	0.46
30:Q3:1440:LEU:HB3	30:Q3:1514:PHE:CZ	2.50	0.46
3:QB:375:GLN:HA	3:QB:378:PHE:CE1	2.50	0.46
4:QC:1:MET:SD	4:QC:2:ARG:N	2.88	0.46
4:QC:152:LEU:HB2	4:QC:156:ARG:HH22	1.80	0.46
4:QC:235:VAL:HA	4:QC:238:ILE:HG12	1.98	0.46
4:QE:119:LEU:HB3	4:QE:123:ARG:NH2	2.30	0.46
3:QF:267:MET:O	3:QF:369:GLY:N	2.39	0.46
4:QI:265:ILE:HA	4:QI:267:PHE:CE2	2.50	0.46
4:QI:272:TYR:CE1	4:QI:374:ALA:HB1	2.50	0.46
4:QI:320:ARG:HA	4:QI:356:ASN:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QJ:217:LEU:HD11	3:QJ:220:PRO:HB3	1.98	0.46
3:QJ:309:ARG:HE	3:QJ:426:GLN:HE21	1.61	0.46
4:QK:45:GLY:HA2	4:QK:49:PHE:HE1	1.80	0.46
4:QK:172:TYR:CD1	4:QK:203:MET:HG2	2.51	0.46
4:QK:172:TYR:HD1	4:QK:203:MET:HG2	1.79	0.46
27:R:240:MET:HA	27:R:243:ILE:HD12	1.96	0.46
3:RB:109:GLY:O	3:RB:113:VAL:HG13	2.14	0.46
3:RB:320:ARG:HG2	3:RB:357:PRO:HG3	1.98	0.46
4:RC:332:ILE:HG13	4:RC:336:LYS:NZ	2.30	0.46
3:RF:24:ILE:HG23	3:RF:28:HIS:CE1	2.49	0.46
3:RF:61:PRO:HD3	3:RF:84:ILE:HG13	1.97	0.46
3:RH:61:PRO:HD3	3:RH:84:ILE:HG13	1.98	0.46
3:RH:81:PHE:O	3:RH:84:ILE:HG22	2.15	0.46
3:RJ:188:SER:O	3:RJ:192:LEU:HG	2.15	0.46
3:RL:175:VAL:HG22	3:RL:177:ASP:H	1.81	0.46
4:RM:22:GLU:O	4:RM:26:LEU:HD23	2.15	0.46
3:SB:372:THR:HB	3:SB:375:GLN:NE2	2.28	0.46
4:SC:50:ASN:OD1	4:SC:51:THR:N	2.48	0.46
4:SC:265:ILE:HD11	4:SC:384:ILE:HD11	1.96	0.46
3:SD:152:ILE:O	3:SD:156:ARG:HG2	2.16	0.46
4:SE:264:ARG:O	4:SE:266:HIS:ND1	2.44	0.46
4:SE:329:ASN:HA	4:SE:332:ILE:HG12	1.98	0.46
3:SF:67:ASP:OD2	3:SF:72:THR:OG1	2.34	0.46
3:SH:11:GLN:HG3	39:SH:501:GTP:PA	2.54	0.46
4:SK:438:ASP:HA	3:SL:391:ARG:HH12	1.81	0.46
4:TC:265:ILE:HB	4:TC:432:TYR:HE1	1.81	0.46
3:TD:226:ASN:HA	3:TD:229:VAL:HG12	1.97	0.46
3:TF:39:ASP:N	3:TF:39:ASP:OD1	2.48	0.46
4:TG:163:LYS:HD3	4:TG:163:LYS:HA	1.75	0.46
4:TG:368:LEU:HD23	4:TG:368:LEU:H	1.81	0.46
3:TH:32:PRO:O	3:TH:83:GLN:NE2	2.45	0.46
3:TH:214:THR:HG23	3:TH:215:LEU:HD12	1.96	0.46
4:TI:259:LEU:HD21	4:TI:316:CYS:HB2	1.98	0.46
4:TK:101:ASN:HA	4:TK:144:GLY:HA2	1.97	0.46
4:TK:205:ASP:OD2	4:TK:304:LYS:NZ	2.31	0.46
3:TL:11:GLN:CA	3:TL:14:ASN:HB2	2.37	0.46
3:TL:277:GLY:O	3:TL:280:GLN:NE2	2.49	0.46
4:TM:119:LEU:HA	4:TM:122:ILE:HG12	1.97	0.46
3:TN:189:VAL:HA	3:TN:192:LEU:HB2	1.98	0.46
3:TN:375:GLN:HA	3:TN:378:PHE:CE1	2.51	0.46
4:UA:91:GLN:HG3	4:UA:121:ARG:HH21	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UC:154:MET:HE1	4:UC:197:HIS:HB2	1.97	0.46
4:UC:408:TYR:CD2	4:UC:418:PHE:HZ	2.34	0.46
3:UD:106:TYR:HB2	3:UD:401:GLU:OE2	2.14	0.46
3:UD:152:ILE:O	3:UD:156:ARG:HG2	2.15	0.46
3:UJ:32:PRO:O	3:UJ:83:GLN:NE2	2.43	0.46
3:UJ:54:ALA:HB3	3:UJ:58:LYS:HB3	1.96	0.46
3:UL:379:LYS:O	3:UL:382:SER:OG	2.20	0.46
4:VA:405:VAL:O	4:VA:409:VAL:HG22	2.15	0.46
3:VB:40:SER:HB3	3:VB:42:LEU:HD23	1.97	0.46
3:VB:328:GLU:OE1	3:VB:332:ASN:ND2	2.49	0.46
4:VC:89:PRO:HD2	4:WC:280:LYS:NZ	2.30	0.46
4:VC:113:GLU:OE1	4:VC:113:GLU:N	2.48	0.46
3:VD:91:VAL:HG11	3:VD:116:VAL:HG12	1.96	0.46
4:VE:3:GLU:OE2	4:VE:130:THR:N	2.37	0.46
4:VE:12:ALA:HB2	39:VE:501:GTP:H5”	1.97	0.46
4:VE:256:GLN:O	4:VE:260:VAL:HG12	2.15	0.46
3:VF:141:GLY:CA	39:VF:501:GTP:H5”	2.45	0.46
3:VF:222:TYR:HA	3:VF:225:LEU:HD13	1.97	0.46
3:VH:152:ILE:O	3:VH:156:ARG:HG2	2.15	0.46
3:VH:282:ARG:HE	3:VH:288:GLU:CD	2.24	0.46
3:VL:389:PHE:HZ	3:VL:405:GLU:HB2	1.81	0.46
33:W:341:MET:O	33:W:345:LYS:HG2	2.15	0.46
3:WB:16:ILE:HD13	3:WB:226:ASN:ND2	2.30	0.46
3:WD:30:ILE:HG13	3:WD:36:TYR:CD1	2.50	0.46
3:WD:304:ASP:O	3:WD:307:HIS:ND1	2.45	0.46
4:WE:11:GLN:OE1	39:WE:501:GTP:PB	2.73	0.46
4:WE:54:SER:N	4:WE:62:VAL:O	2.48	0.46
4:WG:102:ASN:HB3	4:WG:105:ARG:HB2	1.96	0.46
4:WG:301:GLN:OE1	4:WG:301:GLN:N	2.48	0.46
3:WH:392:LYS:HD2	3:WH:392:LYS:O	2.15	0.46
4:WI:170:ALA:HB3	4:WI:203:MET:HE1	1.97	0.46
4:WI:351:PHE:CZ	3:WJ:175:VAL:HG22	2.49	0.46
4:WI:421:ALA:O	4:WI:425:LEU:N	2.36	0.46
34:XD:90:GLU:OE2	34:XD:104:ARG:NH1	2.49	0.46
34:XE:27:LYS:HD3	34:XE:59:ILE:HD13	1.97	0.46
34:XG:20:LYS:HG3	34:XG:23:GLN:OE1	2.15	0.46
34:XG:173:SER:OG	34:XG:176:GLU:OE1	2.29	0.46
35:XK:134:ILE:HG22	35:XK:138:LYS:NZ	2.28	0.46
35:XL:141:LEU:HB3	35:XL:180:ILE:HD13	1.97	0.46
37:YB:75:GLU:HG2	37:YB:76:LEU:N	2.30	0.46
37:YB:76:LEU:O	37:YB:80:CYS:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:YB:162:VAL:HA	37:YB:165:HIS:CE1	2.50	0.46
37:YE:148:MET:HA	37:YE:148:MET:HE2	1.97	0.46
37:YH:61:THR:O	37:YH:65:ILE:HG22	2.15	0.46
37:YI:110:LEU:HD23	37:YI:140:LEU:HD13	1.96	0.46
37:YL:128:ASP:HA	37:YL:131:ARG:HD3	1.97	0.46
1:A:207:GLU:HA	1:A:210:LEU:HD12	1.97	0.46
1:A:292:GLU:O	1:A:296:VAL:HG23	2.15	0.46
2:A3:61:LYS:HD2	5:B2:281:TRP:CZ2	2.49	0.46
2:A4:178:LYS:HD2	2:A4:179:PHE:N	2.30	0.46
4:AE:139:HIS:O	4:AE:170:ALA:HA	2.15	0.46
4:AG:283:HIS:CE1	4:MG:89:PRO:HD2	2.50	0.46
3:AH:20:PHE:CZ	3:AH:24:ILE:HD11	2.50	0.46
3:AH:25:SER:O	3:AH:29:GLY:N	2.49	0.46
3:AH:192:LEU:O	3:AH:196:THR:HG22	2.15	0.46
3:AH:406:MET:O	3:AH:409:THR:OG1	2.25	0.46
3:AL:374:ILE:HG22	3:AL:378:PHE:CE2	2.51	0.46
1:B:339:GLU:HA	1:B:342:LEU:HB3	1.97	0.46
1:B:477:LEU:HD12	11:Fb:313:ASN:ND2	2.31	0.46
1:B:477:LEU:HD13	11:Fb:316:ARG:CZ	2.46	0.46
5:B3:280:LYS:O	5:B3:283:GLU:HG3	2.16	0.46
5:B4:391:MET:HA	5:B4:394:ARG:HH21	1.80	0.46
5:B5:32:ARG:O	5:B5:35:SER:OG	2.24	0.46
5:B7:73:ARG:O	5:B7:77:THR:HG23	2.15	0.46
5:B8:176:HIS:HA	5:B8:179:LYS:NZ	2.30	0.46
4:BE:311:LYS:NZ	4:BE:343:PHE:O	2.46	0.46
4:BG:70:LEU:HB3	4:BG:97:GLU:O	2.15	0.46
4:BG:171:ILE:HD12	4:BG:204:VAL:HG23	1.97	0.46
4:BG:254:GLU:OE1	4:BG:254:GLU:N	2.38	0.46
3:BH:144:GLY:N	39:BH:501:GTP:O2B	2.48	0.46
4:BK:402:ARG:HB3	4:BK:405:VAL:HG21	1.98	0.46
3:BL:114:ASP:OD1	3:BL:115:SER:N	2.46	0.46
3:BL:178:THR:HB	3:BL:181:GLU:HB2	1.96	0.46
3:BL:229:VAL:O	3:BL:232:THR:OG1	2.25	0.46
3:BL:345:ILE:HD12	3:BL:346:PRO:HD2	1.97	0.46
7:C2:246:SER:HA	11:Fk:235:ARG:HH12	1.79	0.46
7:C2:263:ALA:O	7:C2:266:ARG:HB3	2.15	0.46
7:C4:221:ALA:O	7:C4:225:THR:HG23	2.16	0.46
7:C4:266:ARG:O	7:C4:270:LYS:HG2	2.15	0.46
7:C9:354:THR:HG21	7:C9:466:LEU:HD13	1.97	0.46
3:CD:324:LYS:HD2	4:CE:221:ARG:HA	1.97	0.46
4:CI:50:ASN:OD1	4:CI:51:THR:N	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CI:101:ASN:CB	4:CI:182:VAL:HG11	2.44	0.46
4:CI:207:GLU:HB2	4:CI:304:LYS:HZ1	1.79	0.46
4:CI:319:TYR:HA	4:CI:374:ALA:O	2.16	0.46
3:CJ:315:ALA:HB2	3:CJ:367:PHE:HD1	1.80	0.46
3:CJ:389:PHE:HZ	3:CJ:405:GLU:HB2	1.80	0.46
4:CK:36:MET:HE3	4:CK:61:HIS:CE1	2.51	0.46
4:CK:42:ILE:HG21	4:CK:59:GLY:HA2	1.97	0.46
4:CK:256:GLN:O	4:CK:260:VAL:HG12	2.15	0.46
3:CL:11:GLN:OE1	3:CL:15:GLN:NE2	2.48	0.46
4:CM:221:ARG:HG3	4:CM:221:ARG:NH1	2.31	0.46
7:Cb:419:ARG:NH1	7:Cc:145:ASN:OD1	2.48	0.46
6:D:149:ARG:HA	6:D:152:ALA:HB3	1.97	0.46
8:D3:63:ARG:NH2	8:D4:415:ASP:OD2	2.49	0.46
8:D8:135:LYS:HZ2	8:D8:194:ILE:HG13	1.80	0.46
8:D8:387:SER:O	8:D8:391:LEU:HG	2.15	0.46
8:D9:411:SER:HA	8:D9:414:LYS:HE3	1.97	0.46
4:DA:24:TYR:O	4:DA:28:HIS:ND1	2.41	0.46
4:DA:70:LEU:HA	4:DA:95:GLY:HA3	1.97	0.46
4:DA:89:PRO:CD	4:EA:280:LYS:HZ3	2.27	0.46
3:DB:347:ASN:HB3	4:DC:178:SER:HB3	1.97	0.46
3:DD:40:SER:HB2	3:DD:43:GLN:CD	2.40	0.46
3:DD:305:PRO:HB2	3:DD:310:TYR:HE1	1.79	0.46
4:DE:274:PRO:HG3	4:DE:374:ALA:HA	1.97	0.46
3:DF:152:ILE:O	3:DF:156:ARG:HG2	2.14	0.46
4:DG:22:GLU:HG2	4:DG:83:TYR:CE2	2.49	0.46
4:DI:171:ILE:HD12	4:DI:204:VAL:HG13	1.97	0.46
4:DI:397:LEU:O	4:DI:401:LYS:HG2	2.16	0.46
3:DJ:175:VAL:HG22	3:DJ:177:ASP:H	1.81	0.46
10:E1:152:THR:C	10:E1:154:ASN:H	2.22	0.46
10:E3:43:ILE:HG13	10:E3:44:LYS:H	1.80	0.46
10:E4:48:ARG:HB2	10:E4:63:TRP:CE2	2.50	0.46
10:E4:81:ARG:HB3	10:E4:87:TYR:HE2	1.80	0.46
4:EA:256:GLN:O	4:EA:260:VAL:HG12	2.15	0.46
4:EA:385:ALA:HB2	4:EA:432:TYR:HD2	1.81	0.46
3:EB:410:GLU:HA	3:EB:413:SER:HB3	1.98	0.46
3:ED:218:THR:OG1	3:ED:219:THR:N	2.48	0.46
4:EE:11:GLN:O	4:EE:14:VAL:HG22	2.15	0.46
3:EF:190:HIS:O	3:EF:193:VAL:HG12	2.16	0.46
4:EG:399:TYR:OH	4:EG:415:GLU:HB2	2.15	0.46
3:EH:272:PRO:HA	3:EH:292:GLN:OE1	2.15	0.46
4:EI:87:PHE:HB3	4:EI:92:LEU:HD21	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EI:363:VAL:H	4:EI:368:LEU:HD21	1.80	0.46
9:F:320:PRO:HB3	9:F:328:PHE:HE2	1.80	0.46
9:F:407:GLY:C	9:F:409:PRO:HD2	2.40	0.46
11:F1:379:GLU:O	11:F1:382:ILE:HG22	2.16	0.46
11:F2:399:ARG:NH2	11:F2:413:GLN:HE21	2.13	0.46
11:F3:159:GLU:HA	11:F3:162:ARG:HH21	1.80	0.46
11:F6:102:GLN:HB3	11:F7:451:LEU:HD21	1.97	0.46
11:F6:141:ASN:ND2	11:F7:411:VAL:HG13	2.20	0.46
11:F6:292:ILE:HB	11:F6:295:THR:HG23	1.95	0.46
11:F6:389:LEU:HD13	11:F6:423:ILE:HD13	1.97	0.46
11:F7:427:LEU:HD12	11:F7:430:LEU:HD11	1.98	0.46
11:F8:375:ILE:HG13	11:F8:376:MET:N	2.30	0.46
11:F8:387:TYR:OH	11:Fi:316:ARG:NH2	2.49	0.46
4:FA:102:ASN:OD1	4:FA:104:ALA:N	2.48	0.46
3:FB:141:GLY:HA3	39:FB:501:GTP:H5"	1.97	0.46
3:FB:380:ARG:O	3:FB:384:GLN:HG2	2.15	0.46
3:FB:410:GLU:HA	3:FB:413:SER:HB3	1.98	0.46
3:FD:6:HIS:HB3	3:FD:21:TRP:HZ2	1.81	0.46
3:FD:48:ASN:HA	3:FD:51:TYR:O	2.15	0.46
4:FE:220:GLU:O	4:FE:221:ARG:NE	2.43	0.46
4:FE:320:ARG:HG2	4:FE:358:GLN:O	2.15	0.46
4:FG:9:VAL:HA	4:FG:68:VAL:HG23	1.98	0.46
4:FI:20:CYS:O	4:FI:24:TYR:N	2.39	0.46
4:FI:70:LEU:HA	4:FI:95:GLY:HA3	1.97	0.46
4:FI:285:GLN:NE2	4:FI:286:LEU:O	2.49	0.46
3:FJ:286:VAL:HG21	3:FJ:325:GLU:HG3	1.97	0.46
3:FL:4:ILE:HB	3:FL:50:TYR:CE1	2.51	0.46
11:Fb:410:ASP:H	11:Fc:145:ARG:HH21	1.63	0.46
11:Fi:177:LEU:HD21	11:Fi:233:ALA:HB2	1.96	0.46
11:Fk:158:TYR:CE2	11:Fk:162:ARG:HD3	2.50	0.46
11:Fl:123:ILE:O	11:Fl:127:LYS:HG2	2.16	0.46
11:Fm:241:ARG:O	11:Fm:245:ASP:N	2.35	0.46
12:G:115:GLU:HA	12:G:118:LEU:HD12	1.95	0.46
13:G1:91:ALA:O	13:G1:95:LYS:NZ	2.41	0.46
13:G3:27:ARG:NH1	4:LK:244:PHE:HA	2.30	0.46
14:G4:440:LEU:HG	14:G4:448:VAL:HG12	1.96	0.46
14:G4:637:MET:HG3	14:G4:638:PHE:CD1	2.50	0.46
14:G5:237:ASP:OD1	14:G5:246:ARG:NH2	2.48	0.46
14:G6:728:ILE:HG12	14:G6:731:LYS:HA	1.97	0.46
4:GA:172:TYR:HB2	4:GA:203:MET:HB3	1.96	0.46
4:GA:433:GLU:O	4:GA:437:VAL:N	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GB:164:MET:N	3:GB:197:ASP:OD2	2.39	0.46
4:GC:264:ARG:O	4:GC:266:HIS:ND1	2.42	0.46
4:GC:285:GLN:HE22	4:GC:287:SER:HB3	1.81	0.46
4:GE:246:GLY:HA3	4:GE:355:ILE:O	2.15	0.46
4:GG:263:PRO:HB2	4:GG:264:ARG:CZ	2.44	0.46
4:GI:2:ARG:NH1	4:GI:241:SER:O	2.49	0.46
4:GI:345:ASP:OD1	4:GI:345:ASP:N	2.48	0.46
3:GJ:156:ARG:NH2	3:GJ:157:GLU:HB3	2.31	0.46
4:GK:165:SER:C	4:GK:166:LYS:HD2	2.40	0.46
3:GL:407:GLU:HA	3:GL:410:GLU:OE2	2.16	0.46
12:H:451:LEU:HD12	12:H:454:GLN:NE2	2.30	0.46
15:H2:215:ARG:HB3	15:H2:237:ARG:HE	1.80	0.46
3:HB:309:ARG:O	3:HB:371:SER:OG	2.25	0.46
4:HC:2:ARG:HH21	3:HD:69:GLU:HA	1.80	0.46
4:HC:79:ARG:NH2	4:HC:92:LEU:O	2.48	0.46
4:HC:247:ALA:HB3	4:HC:355:ILE:HG21	1.97	0.46
4:HC:421:ALA:HA	4:HC:424:ASP:HB2	1.96	0.46
3:HD:28:HIS:HA	3:HD:43:GLN:CD	2.40	0.46
3:HD:268:PRO:HD2	3:HD:301:ALA:HB2	1.97	0.46
3:HF:139:LEU:N	3:HF:168:SER:OG	2.47	0.46
3:HF:218:THR:OG1	3:HF:219:THR:N	2.47	0.46
4:HG:15:GLN:NE2	4:HG:224:TYR:OH	2.47	0.46
4:HG:116:ASP:HA	4:HG:119:LEU:HD12	1.98	0.46
4:HG:121:ARG:O	4:HG:124:LYS:HG2	2.15	0.46
3:HH:189:VAL:HA	3:HH:192:LEU:HB2	1.97	0.46
3:HH:254:ALA:O	3:HH:258:VAL:N	2.49	0.46
3:HH:309:ARG:O	3:HH:371:SER:OG	2.24	0.46
4:HI:22:GLU:HG2	4:HI:83:TYR:HE2	1.80	0.46
4:HI:75:VAL:HA	4:HI:78:VAL:HG22	1.97	0.46
4:HI:320:ARG:HG2	4:HI:358:GLN:O	2.16	0.46
3:HL:217:LEU:O	3:HL:219:THR:N	2.49	0.46
3:IB:229:VAL:O	3:IB:232:THR:OG1	2.31	0.46
3:IF:51:TYR:CD1	3:IF:61:PRO:HA	2.50	0.46
3:IF:324:LYS:HD2	4:IG:221:ARG:HA	1.97	0.46
4:IG:196:GLU:HG2	4:IG:197:HIS:ND1	2.30	0.46
3:IH:31:ASP:N	3:IH:31:ASP:OD1	2.48	0.46
3:IH:109:GLY:O	3:IH:113:VAL:HG13	2.15	0.46
3:IJ:114:ASP:N	3:IJ:114:ASP:OD1	2.46	0.46
3:IJ:211:CYS:HA	3:IJ:215:LEU:HD13	1.98	0.46
4:IK:161:TYR:HB3	4:IK:164:LYS:HZ3	1.81	0.46
4:IM:216:ASN:HD21	4:IM:275:VAL:HG23	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JB:189:VAL:HA	3:JB:192:LEU:HB2	1.98	0.46
3:JB:309:ARG:H	3:JB:372:THR:HG1	1.57	0.46
3:JD:61:PRO:HD3	3:JD:84:ILE:HG13	1.96	0.46
3:JD:137:HIS:O	3:JD:168:SER:HA	2.15	0.46
3:JD:239:CYS:SG	3:JD:316:VAL:HG11	2.56	0.46
4:JE:5:ILE:HD13	4:JE:64:ARG:HB3	1.97	0.46
4:JE:93:ILE:HG13	4:JE:118:VAL:HG12	1.96	0.46
4:JE:341:ILE:HD11	4:JE:343:PHE:HE1	1.79	0.46
3:JF:132:GLY:HA3	3:JF:163:ILE:H	1.81	0.46
3:JF:150:LEU:C	3:JF:154:LYS:HZ3	2.24	0.46
4:JI:208:ALA:HA	4:JI:211:ASP:HB2	1.98	0.46
4:JK:187:SER:O	4:JK:190:THR:OG1	2.29	0.46
3:JL:12:CYS:SG	39:JL:501:GTP:H5'	2.54	0.46
21:K2:351:THR:HA	21:K2:354:LEU:HD12	1.98	0.46
21:K3:18:ALA:HB3	21:K3:21:TRP:CD1	2.51	0.46
21:K3:162:ASP:HB3	31:R2:282:HIS:NE2	2.30	0.46
21:K3:206:LEU:HA	21:K3:209:MET:HE3	1.97	0.46
4:KA:308:ARG:NH2	4:KA:340:THR:O	2.48	0.46
4:KC:186:ASN:HA	4:KC:189:LEU:HD12	1.97	0.46
4:KC:263:PRO:HB2	4:KC:264:ARG:NH1	2.30	0.46
3:KD:249:ASP:O	3:KD:253:LEU:HG	2.16	0.46
4:KE:208:ALA:N	4:KE:304:LYS:HZ1	2.08	0.46
3:KF:282:ARG:NH2	3:KF:292:GLN:OE1	2.30	0.46
4:KI:174:ALA:HB3	4:KI:177:VAL:O	2.15	0.46
3:KJ:2:ARG:HA	3:KJ:129:CYS:O	2.15	0.46
4:KK:230:LEU:O	4:KK:234:ILE:HG12	2.16	0.46
22:L1:193:ARG:NH1	22:L1:249:ILE:HG23	2.30	0.46
22:L1:222:PRO:HA	22:L1:225:ILE:HG12	1.96	0.46
22:L1:226:ARG:O	22:L1:230:LEU:HG	2.15	0.46
22:L2:65:LYS:HZ3	3:LD:410:GLU:HA	1.80	0.46
22:L2:233:GLU:O	22:L2:237:LEU:HG	2.15	0.46
4:LA:246:GLY:HA3	4:LA:355:ILE:O	2.15	0.46
4:LA:338:LYS:HG2	4:LA:341:ILE:HG12	1.98	0.46
3:LB:67:ASP:HB3	3:LB:73:MET:SD	2.55	0.46
4:LC:216:ASN:ND2	4:LC:275:VAL:O	2.49	0.46
4:LC:235:VAL:HA	4:LC:238:ILE:HG12	1.97	0.46
3:LD:31:ASP:OD1	3:LD:31:ASP:N	2.47	0.46
3:LD:175:VAL:HG22	3:LD:177:ASP:H	1.80	0.46
3:LD:391:ARG:C	3:LD:392:LYS:HG3	2.40	0.46
4:LE:3:GLU:OE2	4:LE:130:THR:N	2.38	0.46
3:LF:12:CYS:HA	3:LF:15:GLN:OE1	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LF:309:ARG:N	3:LF:372:THR:OG1	2.32	0.46
4:LG:165:SER:C	4:LG:166:LYS:HD2	2.40	0.46
4:LI:161:TYR:O	4:LI:166:LYS:NZ	2.45	0.46
4:LI:255:PHE:O	4:LI:259:LEU:HB2	2.15	0.46
3:LJ:5:VAL:HG23	3:LJ:130:LEU:HD21	1.96	0.46
3:LJ:111:GLU:OE1	3:LJ:111:GLU:N	2.44	0.46
4:LK:70:LEU:HB3	4:LK:97:GLU:O	2.14	0.46
4:LK:245:ASP:O	4:LK:356:ASN:ND2	2.49	0.46
3:LL:8:GLN:HG2	3:LL:65:LEU:HA	1.98	0.46
3:LL:34:GLY:HA3	3:LL:58:LYS:HZ2	1.80	0.46
3:MB:47:ILE:HG13	3:MB:51:TYR:HB2	1.96	0.46
3:MB:148:GLY:O	3:MB:152:ILE:HG12	2.16	0.46
3:MB:175:VAL:HG22	3:MB:177:ASP:H	1.79	0.46
4:MC:338:LYS:NZ	4:MC:339:ARG:H	2.13	0.46
4:MC:363:VAL:HG13	4:MC:366:GLY:HA3	1.96	0.46
3:MD:305:PRO:O	3:MD:308:GLY:N	2.48	0.46
3:MD:380:ARG:NH1	3:MD:380:ARG:HB3	2.31	0.46
4:ME:28:HIS:HB2	4:ME:30:ILE:HG12	1.96	0.46
4:ME:285:GLN:HE22	4:ME:287:SER:HB3	1.81	0.46
3:MF:224:ASP:O	3:MF:228:LEU:HG	2.15	0.46
3:MF:379:LYS:O	3:MF:382:SER:OG	2.18	0.46
4:MG:272:TYR:CZ	4:MG:274:PRO:HG2	2.50	0.46
4:MI:187:SER:O	4:MI:191:THR:HG23	2.14	0.46
4:MK:196:GLU:OE1	4:MK:196:GLU:N	2.37	0.46
3:ML:156:ARG:NH1	3:ML:195:ASN:O	2.48	0.46
3:ML:305:PRO:HA	3:ML:373:ALA:HB2	1.96	0.46
3:ML:378:PHE:HA	3:ML:381:ILE:HG12	1.97	0.46
26:N3:160:LYS:HE3	26:N3:163:GLY:O	2.15	0.46
4:NA:235:VAL:HA	4:NA:238:ILE:HG12	1.97	0.46
3:NB:178:THR:HB	3:NB:181:GLU:HB2	1.96	0.46
3:NB:318:ARG:HD3	3:NB:358:PRO:HG3	1.97	0.46
3:NF:175:VAL:HG22	3:NF:177:ASP:H	1.80	0.46
3:NF:216:LYS:HB3	3:NF:276:ARG:CZ	2.45	0.46
3:NF:285:THR:O	3:NF:288:GLU:HG3	2.15	0.46
3:NH:269:GLY:N	3:NH:367:PHE:O	2.48	0.46
4:NI:36:MET:HG3	4:NI:41:THR:OG1	2.15	0.46
3:NJ:1:MET:HE1	3:NJ:49:VAL:HA	1.96	0.46
3:NJ:149:THR:HG21	3:NJ:188:SER:HA	1.97	0.46
3:NJ:313:VAL:HG23	3:NJ:349:VAL:HA	1.98	0.46
4:NK:166:LYS:N	4:NK:199:ASP:OD2	2.49	0.46
4:NK:186:ASN:OD1	4:NK:187:SER:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NL:7:LEU:HB2	3:NL:135:LEU:HG	1.98	0.46
4:OA:104:ALA:HB1	4:OA:108:TYR:HD2	1.80	0.46
4:OA:141:PHE:HB2	4:OA:173:PRO:HD3	1.97	0.46
4:OA:287:SER:N	4:OA:290:GLU:OE2	2.48	0.46
3:OD:305:PRO:HB2	3:OD:310:TYR:HE1	1.81	0.46
4:OE:208:ALA:H	4:OE:304:LYS:NZ	2.10	0.46
3:OF:375:GLN:HA	3:OF:378:PHE:CE1	2.51	0.46
4:OI:144:GLY:HA3	39:OI:501:GTP:O3G	2.16	0.46
4:OI:168:GLU:HB2	4:OI:201:ALA:HA	1.98	0.46
3:OJ:246:LEU:HB2	3:OJ:352:ALA:HB1	1.97	0.46
3:OJ:261:PRO:O	3:OJ:264:HIS:NE2	2.49	0.46
4:OK:139:HIS:HE1	4:OK:168:GLU:HB3	1.80	0.46
3:OL:7:LEU:HB2	3:OL:135:LEU:HG	1.96	0.46
3:OL:223:GLY:O	3:OL:227:HIS:N	2.47	0.46
27:P:338:LEU:O	27:P:342:ASN:ND2	2.48	0.46
29:P1:346:GLU:HG2	29:P1:362:MET:HE1	1.97	0.46
29:P2:288:GLN:NE2	29:P2:289:LEU:O	2.39	0.46
3:PB:113:VAL:HB	3:PB:154:LYS:HE3	1.97	0.46
4:PC:271:THR:HB	4:PC:377:MET:HB2	1.97	0.46
4:PC:316:CYS:HB3	4:PC:378:LEU:HB3	1.98	0.46
3:PD:101:TRP:CE3	3:PD:187:LEU:HD13	2.50	0.46
4:PI:220:GLU:O	4:PI:221:ARG:NE	2.46	0.46
4:PI:288:VAL:HG21	4:PI:328:VAL:HG22	1.97	0.46
4:PK:32:PRO:O	4:PK:85:GLN:NE2	2.48	0.46
4:PK:116:ASP:N	4:PK:116:ASP:OD1	2.47	0.46
3:PL:420:SER:HA	3:PL:423:GLN:NE2	2.30	0.46
27:Q:105:GLU:CD	27:Q:105:GLU:H	2.23	0.46
30:Q3:1437:TYR:CZ	30:Q3:1496:TYR:HB2	2.50	0.46
3:QB:119:VAL:HA	3:QB:122:LYS:HE3	1.97	0.46
3:QD:58:LYS:HE2	3:RD:281:TYR:CE1	2.50	0.46
3:QD:255:VAL:HG21	4:QE:100:ALA:O	2.15	0.46
4:QE:105:ARG:O	4:QE:109:THR:OG1	2.21	0.46
3:QF:46:ARG:NH2	4:QG:73:THR:HA	2.25	0.46
3:QF:391:ARG:O	3:QF:392:LYS:HG3	2.14	0.46
4:QG:49:PHE:CE1	4:QG:55:GLU:HB3	2.51	0.46
4:QG:208:ALA:N	4:QG:304:LYS:HZ1	2.11	0.46
4:QI:324:VAL:HG21	3:QJ:219:THR:HG22	1.97	0.46
3:QJ:51:TYR:CD1	3:QJ:61:PRO:HA	2.51	0.46
4:QK:318:LEU:O	4:QK:375:VAL:HA	2.15	0.46
4:QK:329:ASN:OD1	4:QK:330:ALA:N	2.49	0.46
3:QL:325:GLU:O	3:QL:329:GLN:HG2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:QM:50:ASN:OD1	4:QM:51:THR:N	2.47	0.46
4:QM:209:ILE:HG21	4:QM:227:LEU:HG	1.96	0.46
3:RB:165:ASN:OD1	3:RB:166:THR:N	2.48	0.46
4:RC:262:TYR:HE1	3:RD:393:ALA:HA	1.81	0.46
4:RC:319:TYR:N	4:RC:354:GLY:O	2.47	0.46
39:RD:501:GTP:O3G	39:RD:501:GTP:O3'	2.19	0.46
4:RE:145:THR:OG1	39:RE:501:GTP:O1B	2.30	0.46
3:RH:56:GLY:O	3:RH:58:LYS:NZ	2.48	0.46
3:RJ:73:MET:HA	3:RJ:76:VAL:HG22	1.98	0.46
4:RK:172:TYR:CD1	4:RK:203:MET:HG2	2.48	0.46
3:RL:91:VAL:HG11	3:RL:116:VAL:HG12	1.98	0.46
3:RL:134:GLN:OE1	3:RL:134:GLN:N	2.48	0.46
3:RL:152:ILE:O	3:RL:156:ARG:HG2	2.15	0.46
4:RM:6:SER:HB3	4:RM:65:ALA:HB2	1.97	0.46
4:RM:287:SER:OG	4:RM:290:GLU:OE1	2.31	0.46
32:S:401:ARG:O	32:S:405:LEU:HG	2.16	0.46
3:SB:73:MET:HE1	3:SB:92:PHE:CG	2.50	0.46
4:SC:333:ALA:HA	4:SC:336:LYS:HD2	1.97	0.46
3:SD:7:LEU:HD13	3:SD:64:VAL:HB	1.96	0.46
3:SF:258:VAL:HB	4:SG:407:TRP:HZ2	1.80	0.46
3:SF:344:TRP:HA	4:SG:401:LYS:NZ	2.30	0.46
4:SG:319:TYR:N	4:SG:354:GLY:O	2.48	0.46
3:SH:32:PRO:C	3:SH:83:GLN:HE21	2.23	0.46
4:SK:346:TRP:NE1	3:SL:391:ARG:HH11	2.13	0.46
3:TB:3:GLU:OE2	3:TB:127:CYS:HB2	2.15	0.46
3:TD:330:MET:HE1	4:TE:177:VAL:HG22	1.97	0.46
3:TF:91:VAL:HG11	3:TF:116:VAL:HG12	1.97	0.46
3:TH:392:LYS:HD2	3:TH:392:LYS:O	2.15	0.46
4:TI:87:PHE:HB3	4:TI:92:LEU:HD21	1.97	0.46
4:TI:89:PRO:HD2	4:UG:280:LYS:HZ3	1.80	0.46
4:TK:166:LYS:N	4:TK:199:ASP:OD2	2.48	0.46
4:TK:175:PRO:O	4:TK:390:ARG:HD3	2.15	0.46
3:TL:268:PRO:HD2	3:TL:301:ALA:HB2	1.97	0.46
4:TM:102:ASN:HB3	4:TM:105:ARG:HB2	1.96	0.46
3:TN:266:PHE:HB3	3:TN:368:ILE:HD11	1.97	0.46
33:U:314:GLU:O	33:U:318:ILE:HG12	2.15	0.46
4:UA:404:PHE:HB3	4:UA:407:TRP:HD1	1.80	0.46
3:UD:11:GLN:HG3	39:UD:501:GTP:PA	2.54	0.46
3:UD:130:LEU:HB2	3:UD:162:ARG:NH1	2.31	0.46
4:UE:103:TYR:HB2	4:UE:186:ASN:HB2	1.97	0.46
4:UE:287:SER:OG	4:UE:290:GLU:OE1	2.21	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UG:3:GLU:CD	4:UG:131:GLY:H	2.23	0.46
3:UH:148:GLY:O	3:UH:152:ILE:HG12	2.16	0.46
4:UI:296:PHE:HE2	4:UI:335:ILE:HG21	1.80	0.46
4:UI:301:GLN:N	4:UI:301:GLN:OE1	2.49	0.46
3:UJ:20:PHE:HA	3:UJ:230:SER:HB2	1.97	0.46
3:UL:28:HIS:ND1	3:UL:43:GLN:HB2	2.30	0.46
4:VA:269:LEU:HD11	4:VA:384:ILE:HG21	1.97	0.46
4:VA:318:LEU:O	4:VA:375:VAL:HA	2.15	0.46
3:VD:282:ARG:NH2	3:VD:292:GLN:OE1	2.29	0.46
3:VD:323:MET:SD	3:VD:323:MET:N	2.86	0.46
4:VE:273:ALA:HB2	4:VE:295:CYS:HB3	1.97	0.46
4:VG:70:LEU:HB3	4:VG:97:GLU:O	2.16	0.46
3:VH:32:PRO:C	3:VH:83:GLN:HE21	2.21	0.46
3:VH:309:ARG:N	3:VH:372:THR:OG1	2.32	0.46
4:WA:265:ILE:HD12	4:WA:432:TYR:CE1	2.50	0.46
3:WD:328:GLU:OE1	3:WD:332:ASN:ND2	2.45	0.46
3:WD:350:LYS:HE3	4:WE:181:VAL:H	1.80	0.46
4:WE:160:ASP:OD1	4:WE:161:TYR:N	2.47	0.46
4:WE:386:GLU:HA	4:WE:389:ALA:HB3	1.97	0.46
3:WH:292:GLN:O	3:WH:298:ASN:ND2	2.45	0.46
3:WJ:295:ASP:HB2	3:WJ:298:ASN:HB2	1.97	0.46
3:WJ:318:ARG:C	3:WJ:321:MET:HE1	2.40	0.46
3:WL:328:GLU:OE2	3:WL:329:GLN:NE2	2.47	0.46
3:WL:375:GLN:HA	3:WL:378:PHE:CE1	2.50	0.46
34:XC:34:ILE:HG13	34:XC:34:ILE:O	2.14	0.46
34:XD:87:PHE:HB2	34:XD:159:ASN:O	2.15	0.46
34:XF:55:SER:HA	34:XF:157:HIS:CE1	2.50	0.46
35:XK:184:PHE:CA	35:XK:187:MET:HE1	2.45	0.46
37:YJ:4:VAL:HG13	37:YJ:79:LEU:HG	1.96	0.46
37:YJ:98:GLU:HA	37:YJ:101:LYS:HD2	1.97	0.46
37:YR:26:ILE:HD13	37:YR:29:LEU:HD12	1.98	0.46
37:YR:143:ILE:O	37:YR:147:PHE:HD2	1.98	0.46
38:a:23:VAL:HG12	38:a:27:ARG:NH1	2.30	0.46
1:A:307:GLU:O	1:A:311:ARG:HG3	2.15	0.46
2:A1:282:LEU:HD13	2:A1:372:LEU:HD22	1.98	0.46
2:A2:299:LEU:HD23	2:A2:355:LEU:HD13	1.96	0.46
2:A3:21:LYS:HA	2:A3:24:TYR:CD2	2.50	0.46
3:AB:101:TRP:HB2	3:AB:184:ASN:HD22	1.79	0.46
4:AC:319:TYR:HA	4:AC:374:ALA:O	2.15	0.46
3:AD:324:LYS:HD3	4:AE:210:TYR:CE1	2.51	0.46
4:AG:34:GLY:HA2	4:AG:86:LEU:HD11	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AG:208:ALA:HB2	4:AG:304:LYS:HE3	1.96	0.46
4:AK:116:ASP:N	4:AK:116:ASP:OD1	2.45	0.46
4:AK:260:VAL:HG23	4:AK:265:ILE:O	2.16	0.46
4:AK:345:ASP:N	4:AK:345:ASP:OD1	2.48	0.46
1:B:450:ARG:HA	1:B:453:LYS:NZ	2.30	0.46
5:B1:134:GLU:O	5:B1:138:LEU:HG	2.16	0.46
5:B3:275:PHE:O	5:B3:279:LEU:HG	2.16	0.46
5:B6:211:ASP:N	5:B6:211:ASP:OD1	2.47	0.46
5:B7:268:ARG:O	5:B7:272:MET:HG2	2.14	0.46
5:B7:293:LEU:HD13	5:B7:366:LEU:HD21	1.97	0.46
5:B8:55:TRP:CE2	7:C1:115:HIS:HD2	2.34	0.46
5:B8:277:SER:HA	5:B8:280:LYS:HE2	1.97	0.46
3:BB:156:ARG:NH1	3:BB:164:MET:HE1	2.31	0.46
4:BC:89:PRO:HD2	4:CC:280:LYS:NZ	2.26	0.46
4:BC:371:VAL:HG11	4:BC:374:ALA:HB2	1.97	0.46
3:BD:11:GLN:O	3:BD:14:ASN:HB2	2.14	0.46
3:BD:261:PRO:O	3:BD:264:HIS:NE2	2.48	0.46
4:BE:88:HIS:CD2	4:CE:284:GLU:OE2	2.69	0.46
4:BE:329:ASN:HA	4:BE:332:ILE:HG12	1.98	0.46
4:BE:390:ARG:HA	4:BE:393:HIS:CD2	2.50	0.46
3:BF:52:ASN:OD1	3:BF:62:ARG:NH1	2.48	0.46
3:BH:313:VAL:HG23	3:BH:349:VAL:HA	1.97	0.46
3:BH:328:GLU:O	3:BH:332:ASN:N	2.43	0.46
4:BI:70:LEU:HG	4:BI:149:PHE:CZ	2.50	0.46
3:BJ:113:VAL:O	3:BJ:117:LEU:HD13	2.15	0.46
3:BJ:299:MET:SD	3:BJ:300:MET:N	2.88	0.46
4:BK:206:ASN:HA	4:BK:209:ILE:HD12	1.97	0.46
4:BM:254:GLU:OE1	4:BM:254:GLU:N	2.47	0.46
6:C:43:TYR:CE2	6:C:45:LEU:HD22	2.50	0.46
6:C:199:ASN:ND2	6:C:202:LEU:HB2	2.30	0.46
7:C3:289:ARG:HD3	7:C3:289:ARG:H	1.79	0.46
7:C3:330:ILE:HG23	7:C3:331:VAL:HG13	1.96	0.46
7:C7:358:LYS:HG2	7:C7:462:LYS:HD3	1.96	0.46
7:C9:354:THR:HG23	7:C9:462:LYS:HE2	1.98	0.46
3:CB:253:LEU:O	3:CB:257:MET:HG2	2.15	0.46
4:CE:47:ASP:HB3	4:CE:49:PHE:CE2	2.51	0.46
4:CE:224:TYR:HE1	39:CE:501:GTP:C5	2.33	0.46
4:CG:12:ALA:CB	39:CG:501:GTP:H5”	2.45	0.46
4:CG:30:ILE:HA	4:CG:36:MET:HE1	1.97	0.46
4:CG:67:PHE:O	4:CG:93:ILE:N	2.49	0.46
4:CI:286:LEU:HD11	4:CI:373:ARG:H	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CK:390:ARG:HA	4:CK:393:HIS:CD2	2.50	0.46
3:CL:334:GLN:O	3:CL:338:SER:OG	2.18	0.46
7:Cb:152:ASP:O	7:Cb:155:PHE:HB3	2.16	0.46
8:D2:26:GLU:OE1	8:D2:26:GLU:N	2.37	0.46
8:D2:228:CYS:HB3	8:D3:356:ARG:NH1	2.29	0.46
8:D4:163:GLN:HG3	8:D4:165:PRO:HD2	1.96	0.46
8:D9:215:TRP:O	8:D9:219:VAL:HG23	2.16	0.46
8:D9:332:GLN:CG	8:D9:402:LEU:HD13	2.44	0.46
8:D9:379:SER:O	8:D9:382:GLU:HG3	2.16	0.46
3:DB:40:SER:HB3	3:DB:42:LEU:HD23	1.97	0.46
3:DB:267:MET:O	3:DB:368:ILE:HD12	2.16	0.46
4:DC:70:LEU:HG	4:DC:149:PHE:CZ	2.51	0.46
4:DC:230:LEU:O	4:DC:234:ILE:HG12	2.16	0.46
3:DD:350:LYS:HE3	4:DE:181:VAL:H	1.79	0.46
4:DE:260:VAL:O	3:DF:397:TRP:HH2	1.99	0.46
3:DF:47:ILE:HG21	3:DF:59:TYR:CE2	2.51	0.46
3:DF:148:GLY:O	3:DF:152:ILE:HG12	2.15	0.46
3:DF:238:THR:O	3:DF:242:PHE:N	2.44	0.46
4:DG:5:ILE:HB	4:DG:135:PHE:HD1	1.79	0.46
4:DI:201:ALA:HB1	4:DI:203:MET:HE3	1.98	0.46
4:DI:320:ARG:HG3	4:DI:356:ASN:HB3	1.98	0.46
9:E:579:ASN:HB3	9:E:583:PHE:CB	2.42	0.46
10:E1:11:PRO:HD3	10:E1:142:ARG:HH21	1.81	0.46
10:E1:147:LYS:HD3	10:E1:148:GLU:O	2.15	0.46
10:E2:138:GLN:HB3	10:E2:140:ARG:HH12	1.80	0.46
4:EA:50:ASN:OD1	4:EA:51:THR:N	2.49	0.46
4:EA:54:SER:N	4:EA:62:VAL:O	2.46	0.46
3:EB:299:MET:SD	3:EB:301:ALA:N	2.88	0.46
4:EC:12:ALA:O	39:EC:501:GTP:N2	2.49	0.46
4:EE:213:CYS:O	4:EE:218:ASP:N	2.48	0.46
3:EF:324:LYS:HD2	4:EG:221:ARG:HA	1.96	0.46
3:EF:375:GLN:HA	3:EF:378:PHE:CE1	2.51	0.46
4:EG:207:GLU:HA	4:EG:210:TYR:HD2	1.81	0.46
3:EJ:247:ASN:ND2	39:EK:501:GTP:O3G	2.49	0.46
3:EL:234:SER:O	3:EL:238:THR:HG23	2.15	0.46
3:EL:309:ARG:HH21	3:EL:426:GLN:HG2	1.80	0.46
11:F2:450:ARG:HA	11:F2:453:HIS:HD1	1.80	0.46
11:F3:101:LEU:HA	11:F3:104:ARG:NH1	2.30	0.46
11:F7:373:ASN:O	11:F7:376:MET:HG2	2.16	0.46
11:F7:439:ASP:O	11:F7:442:GLN:HG3	2.16	0.46
11:F8:365:LEU:HD11	11:Fi:148:ASP:OD2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:F9:433:ARG:HH22	11:Fa:123:ILE:HB	1.79	0.46
4:FA:230:LEU:O	4:FA:234:ILE:HG12	2.16	0.46
3:FB:12:CYS:O	3:FB:16:ILE:HG12	2.16	0.46
3:FB:246:LEU:HB3	3:FB:353:VAL:O	2.16	0.46
4:FC:163:LYS:HA	4:FC:163:LYS:HD3	1.72	0.46
4:FE:52:PHE:HZ	4:FE:239:THR:HB	1.79	0.46
4:FE:176:GLN:NE2	4:FE:207:GLU:OE2	2.48	0.46
4:FE:186:ASN:OD1	4:FE:187:SER:N	2.48	0.46
4:FI:370:LYS:HD3	14:G6:709:ALA:HA	1.98	0.46
3:FJ:12:CYS:HB3	39:FJ:501:GTP:H5'	1.97	0.46
3:FJ:186:THR:HA	3:FJ:189:VAL:HG12	1.98	0.46
11:Fa:156:LEU:HD12	11:Fa:257:LYS:NZ	2.30	0.46
11:Fb:433:ARG:NH1	11:Fc:120:SER:HA	2.30	0.46
11:Fc:226:GLN:OE1	11:Fc:230:ARG:NH1	2.49	0.46
11:Fc:302:ASP:O	11:Fc:305:ARG:HG2	2.16	0.46
11:Ff:131:ILE:O	11:Ff:134:MET:HG3	2.15	0.46
11:Fl:236:ILE:HA	11:Fl:239:GLN:HB3	1.97	0.46
13:G2:438:PHE:CD1	13:G2:453:GLU:HB2	2.50	0.46
13:G3:13:PRO:HB3	3:LL:227:HIS:O	2.15	0.46
13:G3:131:MET:HE2	13:G3:154:PHE:H	1.80	0.46
13:G3:453:GLU:O	13:G3:464:GLY:N	2.41	0.46
14:G4:465:VAL:O	14:G4:480:PHE:N	2.41	0.46
14:G4:736:LEU:HA	14:G4:739:LEU:HB2	1.97	0.46
14:G5:561:GLU:H	14:G5:561:GLU:CD	2.22	0.46
14:G5:669:LEU:HD12	14:G5:670:ASP:H	1.80	0.46
14:G5:689:ASN:HB3	14:G5:692:ILE:HG12	1.98	0.46
14:G6:393:TYR:N	14:G6:495:LYS:O	2.40	0.46
14:G6:420:LYS:O	14:G6:424:LEU:HB3	2.16	0.46
14:G6:648:GLU:O	14:G6:649:LYS:HE2	2.15	0.46
4:GA:171:ILE:HD12	4:GA:204:VAL:HG13	1.97	0.46
3:GB:12:CYS:HA	39:GB:501:GTP:N3	2.30	0.46
3:GB:347:ASN:ND2	4:GC:176:GLN:O	2.49	0.46
4:GE:50:ASN:OD1	4:GE:51:THR:N	2.49	0.46
4:GE:120:ASP:HA	4:GE:123:ARG:NH1	2.31	0.46
4:GG:2:ARG:HG2	4:GG:242:LEU:HD12	1.98	0.46
4:GI:12:ALA:HB1	39:GI:501:GTP:N3	2.30	0.46
4:GI:252:LEU:HA	4:GI:255:PHE:HD2	1.80	0.46
4:GI:312:TYR:HD2	4:GI:343:PHE:CE1	2.34	0.46
4:GK:331:ALA:O	4:GK:334:THR:OG1	2.23	0.46
3:GL:51:TYR:CD1	3:GL:61:PRO:HA	2.50	0.46
3:GL:423:GLN:O	3:GL:427:ASP:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H4:13:GLU:CG	15:H4:14:PRO:HA	2.45	0.46
15:H5:311:GLU:HG2	15:H5:315:ARG:CZ	2.46	0.46
15:H6:215:ARG:NH2	15:H6:218:ILE:HG21	2.30	0.46
15:H6:221:TYR:HD2	15:H6:225:VAL:HG13	1.80	0.46
4:HA:230:LEU:O	4:HA:233:GLN:HG3	2.16	0.46
3:HD:11:GLN:HG3	39:HD:501:GTP:PA	2.55	0.46
3:HD:70:PRO:HA	3:HD:73:MET:HE3	1.96	0.46
3:HF:188:SER:O	3:HF:192:LEU:HG	2.15	0.46
3:HH:56:GLY:O	3:HH:58:LYS:NZ	2.48	0.46
3:HH:139:LEU:N	3:HH:168:SER:OG	2.49	0.46
3:HH:141:GLY:HA3	39:HH:501:GTP:H5"	1.97	0.46
3:HH:318:ARG:HD3	3:HH:358:PRO:HG3	1.98	0.46
4:HI:269:LEU:HD11	4:HI:384:ILE:HG21	1.96	0.46
3:HL:215:LEU:O	3:HL:276:ARG:NH1	2.49	0.46
3:IB:323:MET:SD	3:IB:324:LYS:NZ	2.81	0.46
4:IC:263:PRO:HB2	4:IC:264:ARG:NH1	2.31	0.46
3:ID:134:GLN:HB2	3:ID:167:PHE:HE2	1.80	0.46
3:IF:166:THR:OG1	3:IF:198:GLU:O	2.24	0.46
3:IF:357:PRO:O	3:IF:359:ARG:NH1	2.40	0.46
4:IG:246:GLY:HA2	4:IG:357:TYR:HD2	1.81	0.46
3:IH:250:LEU:HD13	3:IH:253:LEU:HD12	1.96	0.46
4:II:288:VAL:O	4:II:292:THR:OG1	2.26	0.46
4:II:337:THR:O	4:II:339:ARG:NH1	2.42	0.46
3:IJ:234:SER:O	3:IJ:238:THR:HG23	2.16	0.46
4:IK:10:GLY:O	4:IK:14:VAL:HG13	2.15	0.46
4:IK:22:GLU:O	4:IK:26:LEU:HG	2.14	0.46
4:IK:165:SER:C	4:IK:166:LYS:HD2	2.41	0.46
4:IM:10:GLY:O	4:IM:13:GLY:N	2.47	0.46
4:IM:180:ALA:HB1	4:IM:182:VAL:HG12	1.97	0.46
4:IM:216:ASN:ND2	4:IM:275:VAL:HG23	2.30	0.46
4:IM:280:LYS:HD2	4:IM:280:LYS:HA	1.77	0.46
18:J:53:ARG:NH1	4:JG:77:GLU:OE2	2.49	0.46
19:J1:55:ALA:HA	19:J1:71:PRO:HA	1.97	0.46
19:J3:103:LEU:O	19:J3:103:LEU:HD23	2.15	0.46
4:JA:70:LEU:HD23	4:JA:145:THR:HB	1.97	0.46
4:JC:117:LEU:O	4:JC:121:ARG:HG2	2.15	0.46
4:JC:320:ARG:HD3	4:JC:360:PRO:HG3	1.98	0.46
4:JE:214:ARG:NH1	4:JE:215:ARG:HG3	2.30	0.46
3:JF:372:THR:HG21	3:JF:426:GLN:HG3	1.96	0.46
4:JG:135:PHE:HD2	4:JG:166:LYS:HG3	1.80	0.46
3:JH:415:MET:O	3:JH:419:VAL:HG23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:JK:149:PHE:O	4:JK:152:LEU:HG	2.15	0.46
4:JK:319:TYR:HB2	4:JK:355:ILE:HD13	1.96	0.46
3:JL:306:ARG:O	3:JL:306:ARG:NE	2.41	0.46
20:K:35:LYS:HB2	20:K:37:GLU:HG2	1.98	0.46
21:K1:415:LEU:O	21:K1:419:THR:HG23	2.16	0.46
21:K2:217:MET:HE3	31:R1:270:VAL:HG22	1.96	0.46
21:K2:349:ARG:O	21:K2:353:THR:HG23	2.16	0.46
21:K3:169:ARG:HA	21:K3:172:LEU:HD12	1.96	0.46
3:KB:21:TRP:CZ2	3:KB:63:ALA:HB2	2.51	0.46
4:KC:68:VAL:HG12	4:KC:93:ILE:HB	1.97	0.46
3:KD:12:CYS:HA	3:KD:15:GLN:OE1	2.16	0.46
3:KD:217:LEU:HD23	3:KD:217:LEU:O	2.15	0.46
3:KD:254:ALA:O	3:KD:258:VAL:N	2.47	0.46
3:KJ:70:PRO:HA	3:KJ:73:MET:HE3	1.97	0.46
4:KK:431:ASP:O	4:KK:435:VAL:HG22	2.15	0.46
20:L:5:VAL:HG23	20:L:6:TYR:CD2	2.51	0.46
22:L2:142:PHE:N	22:L2:143:PRO:HD3	2.31	0.46
3:LB:246:LEU:HB2	3:LB:352:ALA:HB1	1.96	0.46
4:LC:50:ASN:O	4:LC:64:ARG:NH1	2.49	0.46
3:LD:315:ALA:HA	3:LD:367:PHE:HA	1.98	0.46
4:LG:76:ASP:OD1	4:LG:79:ARG:NH1	2.48	0.46
3:LH:148:GLY:O	3:LH:152:ILE:HG12	2.15	0.46
4:LI:116:ASP:OD1	4:LI:117:LEU:N	2.49	0.46
4:LK:119:LEU:HA	4:LK:122:ILE:HD12	1.96	0.46
24:M2:67:ARG:O	24:M2:71:LEU:HG	2.16	0.46
3:MB:8:GLN:OE1	3:MB:65:LEU:HD12	2.16	0.46
3:MB:138:SER:HB3	39:MB:501:GTP:H5"	1.98	0.46
4:ME:6:SER:HA	4:ME:136:LEU:HB2	1.97	0.46
4:ME:280:LYS:HD2	4:ME:280:LYS:HA	1.74	0.46
4:ME:306:ASP:OD2	4:ME:309:HIS:N	2.49	0.46
4:ME:320:ARG:CZ	4:ME:360:PRO:HA	2.46	0.46
3:MF:132:GLY:HA3	3:MF:163:ILE:H	1.80	0.46
4:MG:99:ALA:HB3	4:MG:144:GLY:O	2.16	0.46
4:MG:265:ILE:HD12	4:MG:432:TYR:CE1	2.50	0.46
3:MH:309:ARG:H	3:MH:372:THR:HG1	1.58	0.46
3:MH:312:THR:OG1	3:MH:370:ASN:HB3	2.15	0.46
3:ML:56:GLY:O	3:ML:58:LYS:NZ	2.48	0.46
4:MM:318:LEU:O	4:MM:375:VAL:HA	2.15	0.46
4:NA:35:GLN:HG2	4:NA:59:GLY:O	2.15	0.46
4:NA:113:GLU:N	4:NA:113:GLU:OE1	2.48	0.46
4:NC:272:TYR:CZ	4:NC:274:PRO:HG2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ND:32:PRO:O	3:ND:83:GLN:NE2	2.43	0.46
4:NE:405:VAL:O	4:NE:409:VAL:HG22	2.16	0.46
4:NG:262:TYR:CE1	3:NH:393:ALA:HA	2.50	0.46
3:NH:386:THR:O	3:NH:390:ARG:N	2.47	0.46
4:NI:316:CYS:N	4:NI:378:LEU:O	2.37	0.46
3:NL:60:VAL:HG23	3:NL:86:ARG:HH11	1.81	0.46
28:O2:46:ARG:HD3	28:O2:46:ARG:O	2.15	0.46
4:OA:208:ALA:N	4:OA:304:LYS:HZ1	2.12	0.46
3:OB:190:HIS:ND1	3:OB:411:ALA:HA	2.30	0.46
4:OC:185:TYR:HA	4:OC:395:PHE:HE1	1.81	0.46
4:OG:167:LEU:HB3	4:OG:169:PHE:CE1	2.50	0.46
4:OK:107:HIS:HA	4:OK:152:LEU:HD23	1.96	0.46
27:P:160:ARG:O	27:P:163:PHE:N	2.49	0.46
29:P1:358:VAL:O	29:P1:367:LEU:N	2.49	0.46
29:P2:335:VAL:HG23	29:P2:609:GLY:HA2	1.96	0.46
29:P3:392:ALA:HB2	29:P3:423:ILE:HB	1.96	0.46
4:PA:93:ILE:HG13	4:PA:118:VAL:HG12	1.97	0.46
4:PA:174:ALA:HB3	4:PA:177:VAL:O	2.14	0.46
3:PB:3:GLU:OE2	3:PB:128:ASP:N	2.48	0.46
3:PB:380:ARG:O	3:PB:384:GLN:HG2	2.16	0.46
4:PE:192:HIS:CE1	4:PE:193:THR:HG23	2.50	0.46
4:PE:345:ASP:N	4:PE:345:ASP:OD1	2.48	0.46
4:PG:105:ARG:HG2	4:PG:109:THR:HG21	1.97	0.46
4:PG:167:LEU:HD13	4:PG:200:CYS:HB2	1.98	0.46
4:PG:402:ARG:HB2	4:PG:405:VAL:HG11	1.97	0.46
3:PH:60:VAL:HG23	3:PH:86:ARG:HH11	1.80	0.46
4:PI:287:SER:OG	4:PI:290:GLU:OE1	2.25	0.46
3:PL:234:SER:O	3:PL:238:THR:HG23	2.15	0.46
30:Q3:1419:ARG:HB2	30:Q3:1508:ASN:HB2	1.98	0.46
4:QC:331:ALA:O	4:QC:335:ILE:HG12	2.15	0.46
3:QD:163:ILE:HD11	3:QD:251:ARG:HG3	1.96	0.46
3:QF:87:PRO:HA	3:QF:90:PHE:CD2	2.50	0.46
3:QF:255:VAL:HB	4:QG:404:PHE:HZ	1.79	0.46
3:QH:246:LEU:HD22	3:QH:354:CYS:HA	1.97	0.46
3:QH:309:ARG:O	3:QH:371:SER:OG	2.26	0.46
4:QK:50:ASN:O	4:QK:64:ARG:NH1	2.48	0.46
4:QM:36:MET:HG3	4:QM:41:THR:OG1	2.15	0.46
3:RB:172:SER:OG	3:RB:205:GLU:OE2	2.26	0.46
4:RC:316:CYS:HB3	4:RC:378:LEU:HB2	1.97	0.46
4:RC:331:ALA:O	4:RC:334:THR:OG1	2.29	0.46
3:RD:249:ASP:O	3:RD:252:LYS:HB3	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RF:12:CYS:SG	39:RF:501:GTP:H5'	2.56	0.46
3:RH:290:THR:HG21	3:RH:329:GLN:HB3	1.98	0.46
4:RI:336:LYS:HE2	3:RJ:175:VAL:HG11	1.97	0.46
3:RJ:73:MET:HE3	3:RJ:92:PHE:CE2	2.49	0.46
3:RL:4:ILE:HB	3:RL:50:TYR:CD1	2.50	0.46
3:RL:214:THR:O	3:RL:276:ARG:NH2	2.48	0.46
4:RM:255:PHE:O	4:RM:259:LEU:HB2	2.15	0.46
4:SC:265:ILE:HD12	4:SC:432:TYR:CE1	2.51	0.46
4:SC:325:PRO:HB2	3:SD:208:TYR:OH	2.16	0.46
3:SD:412:GLU:HA	3:SD:415:MET:HE2	1.96	0.46
3:SH:2:ARG:HB3	3:SH:131:GLN:CD	2.41	0.46
4:SI:165:SER:C	4:SI:166:LYS:HD2	2.41	0.46
4:SK:137:ILE:HB	4:SK:168:GLU:HA	1.97	0.46
4:SM:172:TYR:CE2	4:SM:387:ALA:HB1	2.49	0.46
3:TB:51:TYR:CD1	3:TB:61:PRO:HA	2.50	0.46
3:TB:345:ILE:HD12	3:TB:346:PRO:HD2	1.97	0.46
3:TB:350:LYS:HE3	4:TC:181:VAL:H	1.80	0.46
4:TC:320:ARG:HH12	4:TC:360:PRO:HA	1.80	0.46
3:TD:318:ARG:HD3	3:TD:358:PRO:HG3	1.96	0.46
4:TE:268:PRO:HB2	4:TE:378:LEU:HD11	1.97	0.46
4:TG:386:GLU:HA	4:TG:389:ALA:HB3	1.97	0.46
3:TH:20:PHE:HA	3:TH:230:SER:HB2	1.97	0.46
4:TI:329:ASN:OD1	4:TI:330:ALA:N	2.49	0.46
3:TJ:239:CYS:SG	3:TJ:316:VAL:HG11	2.56	0.46
4:TK:45:GLY:HA2	4:TK:49:PHE:HE1	1.81	0.46
4:TK:375:VAL:HG13	4:TK:377:MET:SD	2.55	0.46
4:TK:389:ALA:O	4:TK:393:HIS:HD2	1.98	0.46
3:TL:245:GLN:HE22	4:TM:15:GLN:NE2	2.13	0.46
4:TM:173:PRO:HB2	4:TM:390:ARG:HH22	1.80	0.46
33:U:422:LYS:NZ	33:U:426:GLU:OE2	2.49	0.46
3:UB:192:LEU:O	3:UB:196:THR:HG22	2.15	0.46
3:UB:328:GLU:OE1	3:UB:332:ASN:ND2	2.49	0.46
4:UC:47:ASP:HB3	4:UC:49:PHE:CE2	2.51	0.46
4:UE:113:GLU:OE1	4:UE:113:GLU:N	2.48	0.46
4:UE:116:ASP:N	4:UE:116:ASP:OD1	2.46	0.46
4:UE:119:LEU:HB3	4:UE:123:ARG:NH2	2.30	0.46
4:UG:146:GLY:N	39:UG:501:GTP:O2B	2.46	0.46
4:UG:269:LEU:N	4:UG:379:SER:O	2.37	0.46
3:UH:69:GLU:OE1	3:UH:72:THR:HG23	2.16	0.46
3:UH:178:THR:HB	3:UH:181:GLU:HB2	1.97	0.46
4:UI:200:CYS:HB3	4:UI:202:PHE:CZ	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UK:207:GLU:HB2	4:UK:304:LYS:NZ	2.31	0.46
3:UL:357:PRO:O	3:UL:359:ARG:NH1	2.46	0.46
4:VA:122:ILE:O	4:VA:126:ALA:N	2.46	0.46
4:VA:260:VAL:HG23	4:VA:265:ILE:O	2.14	0.46
4:VA:415:GLU:OE2	4:VA:419:SER:OG	2.32	0.46
3:VB:46:ARG:HH22	4:VC:73:THR:HG23	1.80	0.46
3:VB:206:ALA:O	3:VB:210:ILE:HG12	2.15	0.46
4:VC:166:LYS:N	4:VC:199:ASP:OD2	2.47	0.46
3:VD:130:LEU:HB2	3:VD:162:ARG:HH11	1.80	0.46
4:VE:70:LEU:HG	4:VE:149:PHE:CZ	2.50	0.46
4:VE:272:TYR:CZ	4:VE:274:PRO:HG2	2.51	0.46
4:VE:279:GLU:O	4:VE:282:TYR:HB3	2.15	0.46
3:VH:258:VAL:O	4:VI:407:TRP:NE1	2.46	0.46
4:VI:346:TRP:O	3:VJ:388:MET:HE1	2.15	0.46
3:VJ:258:VAL:HB	4:VK:407:TRP:HZ2	1.79	0.46
3:VJ:324:LYS:HE2	4:VK:222:PRO:CD	2.45	0.46
3:VJ:418:LEU:HA	3:VJ:421:GLU:HB3	1.97	0.46
4:VK:207:GLU:HB2	4:VK:304:LYS:HZ1	1.81	0.46
4:VK:406:HIS:HA	4:VK:409:VAL:HG22	1.98	0.46
3:VL:238:THR:HA	3:VL:241:ARG:HG2	1.97	0.46
4:WA:115:VAL:HG21	4:WA:156:ARG:HD3	1.96	0.46
4:WA:279:GLU:O	4:WA:283:HIS:HD2	1.99	0.46
3:WB:3:GLU:HG2	3:WB:130:LEU:HD23	1.97	0.46
3:WD:269:GLY:O	3:WD:367:PHE:N	2.46	0.46
3:WD:289:LEU:C	3:WD:293:MET:HG2	2.40	0.46
4:WE:119:LEU:HB3	4:WE:123:ARG:NH2	2.30	0.46
3:WF:125:GLU:HG3	34:XD:45:LEU:HD12	1.97	0.46
3:WF:282:ARG:HE	3:WF:288:GLU:CD	2.24	0.46
4:WG:36:MET:HG3	4:WG:41:THR:OG1	2.15	0.46
3:WH:262:ARG:NH2	3:WH:425:TYR:OH	2.47	0.46
4:WK:72:PRO:HA	4:WK:75:VAL:HG12	1.97	0.46
34:XA:79:ILE:HG23	34:XA:131:GLN:HE22	1.80	0.46
34:XA:94:LEU:HB2	34:XA:152:LEU:HD11	1.97	0.46
34:XB:83:LEU:HD21	34:XB:161:ARG:HE	1.80	0.46
34:XF:34:ILE:O	34:XF:36:ARG:NH1	2.48	0.46
34:XG:124:ARG:HD3	34:XG:124:ARG:H	1.81	0.46
35:XI:146:ARG:HH21	35:XI:149:ILE:HD13	1.79	0.46
35:XJ:130:ILE:HG13	35:XJ:131:PRO:CD	2.44	0.46
35:XL:115:ILE:HA	35:XL:118:MET:HE3	1.98	0.46
37:YQ:144:VAL:CG1	37:YQ:148:MET:HE1	2.46	0.46
37:YW:29:LEU:HB3	37:YW:33:ARG:NH1	2.23	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:YW:128:ASP:HA	37:YW:131:ARG:HB2	1.96	0.46
2:A1:98:LEU:O	2:A1:101:SER:OG	2.32	0.46
2:A2:397:ILE:O	2:A2:399:PRO:HD3	2.16	0.46
3:AB:3:GLU:OE2	3:AB:127:CYS:HB2	2.16	0.46
3:AB:81:PHE:O	3:AB:84:ILE:HG22	2.15	0.46
3:AB:150:LEU:C	3:AB:154:LYS:HZ3	2.23	0.46
4:AC:252:LEU:HA	4:AC:255:PHE:CD2	2.51	0.46
4:AE:47:ASP:HB3	4:AE:49:PHE:CE2	2.50	0.46
4:AE:141:PHE:HB2	4:AE:173:PRO:HD3	1.97	0.46
4:AE:196:GLU:OE1	4:AE:196:GLU:N	2.36	0.46
3:AF:226:ASN:HA	3:AF:229:VAL:HG22	1.98	0.46
4:AG:1:MET:N	4:AG:130:THR:OG1	2.43	0.46
3:AH:101:TRP:CE3	3:AH:187:LEU:HD13	2.51	0.46
3:AH:111:GLU:OE1	3:AH:111:GLU:N	2.43	0.46
3:AH:142:GLY:H	39:AH:501:GTP:PG	2.38	0.46
3:AJ:164:MET:HE3	3:AJ:196:THR:C	2.41	0.46
4:AK:47:ASP:HB3	4:AK:49:PHE:CE2	2.51	0.46
4:AK:67:PHE:HB2	4:AK:92:LEU:HD23	1.98	0.46
4:AK:102:ASN:HB3	4:AK:105:ARG:HB2	1.97	0.46
3:AL:186:THR:HG23	3:AL:385:PHE:CZ	2.50	0.46
3:AL:309:ARG:O	3:AL:371:SER:OG	2.29	0.46
1:B:354:PHE:CE1	1:B:358:MET:HE3	2.51	0.46
5:B2:193:ASN:O	5:B2:196:SER:OG	2.24	0.46
5:B2:202:LYS:HG3	8:D4:212:GLU:CD	2.40	0.46
5:B6:120:ARG:NH2	5:B6:386:LEU:HB3	2.31	0.46
3:BB:223:GLY:O	3:BB:227:HIS:N	2.46	0.46
4:BC:11:GLN:O	4:BC:14:VAL:HG22	2.15	0.46
4:BC:119:LEU:HB3	4:BC:123:ARG:NH2	2.31	0.46
4:BE:117:LEU:O	4:BE:121:ARG:HG2	2.15	0.46
3:BF:99:ASN:HB3	39:BF:501:GTP:O3B	2.16	0.46
4:BG:50:ASN:OD1	4:BG:51:THR:N	2.49	0.46
3:BH:12:CYS:HB3	39:BH:501:GTP:H5'	1.98	0.46
3:BH:28:HIS:NE2	3:BH:43:GLN:O	2.48	0.46
4:BK:122:ILE:O	4:BK:126:ALA:N	2.42	0.46
4:BK:229:ARG:HE	4:BK:368:LEU:HD22	1.81	0.46
4:BK:301:GLN:N	4:BK:301:GLN:OE1	2.49	0.46
4:BK:399:TYR:CE1	4:BK:418:PHE:HB3	2.50	0.46
4:BM:20:CYS:O	4:BM:24:TYR:N	2.45	0.46
4:BM:176:GLN:NE2	4:BM:177:VAL:HG23	2.30	0.46
4:BM:329:ASN:OD1	4:BM:330:ALA:N	2.49	0.46
6:C:349:PRO:HA	6:C:352:ALA:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C3:379:ILE:O	7:C3:382:ILE:HG22	2.15	0.46
7:C8:100:TYR:CE2	7:C8:104:LEU:HD11	2.50	0.46
7:C8:218:GLU:O	7:C8:222:GLU:HG2	2.16	0.46
3:CB:49:VAL:HG11	3:CB:241:ARG:HG2	1.98	0.46
3:CB:152:ILE:HA	3:CB:155:ILE:HG12	1.98	0.46
3:CB:309:ARG:HE	3:CB:426:GLN:HE21	1.63	0.46
3:CD:8:GLN:O	3:CD:66:VAL:HG22	2.15	0.46
3:CF:31:ASP:HB3	3:CF:37:HIS:NE2	2.31	0.46
3:CF:250:LEU:HD13	3:CF:253:LEU:HD12	1.96	0.46
4:CG:76:ASP:O	4:CG:80:THR:HG23	2.15	0.46
4:CG:89:PRO:HD2	4:DE:280:LYS:NZ	2.31	0.46
4:CG:206:ASN:OD1	4:CG:207:GLU:N	2.48	0.46
3:CH:32:PRO:C	3:CH:83:GLN:HE21	2.22	0.46
3:CH:47:ILE:HG13	3:CH:51:TYR:HB2	1.97	0.46
4:CI:102:ASN:HB3	4:CI:105:ARG:HB2	1.97	0.46
4:CK:12:ALA:HB1	39:CK:501:GTP:N3	2.30	0.46
7:Cb:349:ASN:OD1	7:Cb:350:ARG:N	2.48	0.46
7:Cb:414:ASP:N	7:Cb:417:GLN:OE1	2.47	0.46
7:Cc:418:LEU:O	7:Cc:421:VAL:HG22	2.16	0.46
7:Cc:448:LEU:HD22	7:Cd:114:ARG:NH2	2.29	0.46
8:D2:185:ASN:HA	8:D2:188:GLU:CD	2.41	0.46
8:D4:206:GLU:OE2	10:E3:142:ARG:NH2	2.49	0.46
8:D8:403:ARG:HA	8:D8:406:GLU:CD	2.40	0.46
4:DA:252:LEU:HA	4:DA:255:PHE:HD2	1.80	0.46
4:DA:263:PRO:HB2	4:DA:264:ARG:NH1	2.30	0.46
4:DC:324:VAL:HG11	3:DD:219:THR:HB	1.97	0.46
3:DF:87:PRO:HA	3:DF:90:PHE:CD2	2.51	0.46
3:DF:218:THR:OG1	3:DF:219:THR:N	2.48	0.46
4:DG:47:ASP:HB3	4:DG:49:PHE:CE2	2.50	0.46
4:DG:125:LEU:HD13	4:DG:128:LEU:HD21	1.96	0.46
4:DG:343:PHE:HD2	4:DG:347:CYS:SG	2.39	0.46
3:DH:72:THR:O	3:DH:75:SER:OG	2.27	0.46
4:DI:53:PHE:CD2	4:DI:61:HIS:HB3	2.51	0.46
4:DI:125:LEU:HD13	4:DI:128:LEU:HD21	1.97	0.46
4:DI:274:PRO:HG3	4:DI:374:ALA:HA	1.98	0.46
3:DJ:166:THR:OG1	3:DJ:198:GLU:O	2.25	0.46
3:DJ:215:LEU:HD11	3:DJ:228:LEU:HD11	1.97	0.46
3:DJ:375:GLN:CD	3:DJ:375:GLN:H	2.23	0.46
10:E2:138:GLN:HB3	10:E2:140:ARG:NH1	2.31	0.46
4:EA:274:PRO:HG3	4:EA:374:ALA:HA	1.98	0.46
4:EA:422:ARG:HD2	4:EA:423:GLU:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EC:175:PRO:HA	4:EC:390:ARG:CZ	2.46	0.46
3:ED:214:THR:HG21	3:ED:273:LEU:HB3	1.97	0.46
3:EF:272:PRO:HA	3:EF:292:GLN:OE1	2.14	0.46
4:EG:171:ILE:HD12	4:EG:204:VAL:HG23	1.97	0.46
3:EH:350:LYS:HE3	4:EI:181:VAL:H	1.81	0.46
3:EH:392:LYS:O	3:EH:392:LYS:HD2	2.15	0.46
4:EI:22:GLU:O	4:EI:26:LEU:HD23	2.15	0.46
4:EI:406:HIS:HA	4:EI:409:VAL:HG22	1.97	0.46
4:EK:285:GLN:NE2	4:EK:286:LEU:O	2.49	0.46
3:EL:173:PRO:O	3:EL:380:ARG:NH2	2.49	0.46
11:F1:390:LYS:HD2	11:F2:279:PHE:CE1	2.50	0.46
11:F2:360:GLN:O	11:F2:363:LYS:HG2	2.15	0.46
11:F6:360:GLN:O	11:F6:364:ILE:HD12	2.16	0.46
11:F7:370:GLN:O	11:F7:374:THR:HG23	2.15	0.46
11:F8:230:ARG:O	11:F8:234:LYS:HG3	2.16	0.46
4:FA:139:HIS:HE1	4:FA:168:GLU:HB3	1.81	0.46
4:FA:286:LEU:HD11	4:FA:373:ARG:H	1.80	0.46
3:FD:23:VAL:O	3:FD:27:GLU:HG3	2.15	0.46
3:FD:206:ALA:O	3:FD:210:ILE:HG12	2.16	0.46
3:FF:49:VAL:HG13	3:FF:50:TYR:CD2	2.50	0.46
4:FG:70:LEU:HA	4:FG:95:GLY:HA3	1.97	0.46
3:FH:228:LEU:O	3:FH:232:THR:HG23	2.16	0.46
11:Fb:433:ARG:NH1	11:Fc:123:ILE:HB	2.30	0.46
11:Ff:219:VAL:O	11:Ff:222:LEU:HG	2.15	0.46
11:Fg:396:LEU:HG	11:Fg:399:ARG:HH11	1.80	0.46
11:Fk:350:GLU:HG2	11:Fk:354:LYS:NZ	2.30	0.46
11:Fm:121:LEU:O	11:Fm:124:MET:HG3	2.16	0.46
11:Fm:196:TYR:O	11:Fm:199:GLU:HG3	2.16	0.46
11:Fm:339:THR:HG22	11:Fm:343:PHE:HE2	1.81	0.46
13:G1:6:VAL:HB	13:G1:9:LEU:HB3	1.97	0.46
14:G4:618:TYR:O	14:G4:622:ARG:HD3	2.15	0.46
14:G6:107:TYR:HE1	14:G6:114:GLN:HB3	1.79	0.46
14:G6:211:ARG:HH12	14:G6:213:TYR:HB2	1.79	0.46
14:G6:575:LYS:NZ	14:G6:736:LEU:HD22	2.30	0.46
4:GA:169:PHE:CE1	4:GA:202:PHE:HD2	2.34	0.46
3:GB:15:GLN:NE2	39:GB:501:GTP:N1	2.63	0.46
4:GC:1:MET:N	4:GC:130:THR:OG1	2.42	0.46
4:GC:105:ARG:HG2	4:GC:109:THR:HG21	1.97	0.46
4:GC:119:LEU:HB3	4:GC:123:ARG:NH2	2.30	0.46
4:GC:254:GLU:OE1	4:GC:254:GLU:N	2.46	0.46
3:GD:111:GLU:HG2	3:GD:112:LEU:HD12	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:GE:262:TYR:CD2	4:GE:263:PRO:HD2	2.50	0.46
3:GF:156:ARG:NH1	3:GF:195:ASN:O	2.49	0.46
3:GJ:91:VAL:HG11	3:GJ:116:VAL:HG12	1.96	0.46
3:GJ:344:TRP:O	4:GK:401:LYS:NZ	2.30	0.46
4:GK:20:CYS:O	4:GK:24:TYR:N	2.37	0.46
4:GK:172:TYR:HB2	4:GK:203:MET:HB2	1.96	0.46
3:GL:204:ASN:OD1	3:GL:205:GLU:N	2.49	0.46
3:GL:316:VAL:HG23	3:GL:352:ALA:HB3	1.98	0.46
15:H3:252:PHE:HB2	15:H3:255:ARG:NH2	2.29	0.46
4:HA:21:TRP:CZ2	4:HA:65:ALA:HB2	2.50	0.46
3:HB:114:ASP:N	3:HB:114:ASP:OD1	2.47	0.46
3:HB:375:GLN:HA	3:HB:378:PHE:CE1	2.50	0.46
4:HC:196:GLU:HG2	4:HC:197:HIS:ND1	2.30	0.46
3:HD:217:LEU:HD11	3:HD:220:PRO:HB3	1.96	0.46
4:HE:103:TYR:HB2	4:HE:186:ASN:HB2	1.98	0.46
4:HE:172:TYR:HB2	4:HE:203:MET:HB3	1.97	0.46
3:HF:130:LEU:HB2	3:HF:162:ARG:NH1	2.28	0.46
4:HG:12:ALA:HA	4:HG:15:GLN:HE22	1.81	0.46
4:HG:139:HIS:HE1	4:HG:168:GLU:HB3	1.80	0.46
3:HH:255:VAL:HG12	4:HI:407:TRP:CD2	2.51	0.46
4:HI:301:GLN:OE1	4:HI:301:GLN:N	2.49	0.46
3:HJ:222:TYR:HA	3:HJ:225:LEU:HD13	1.97	0.46
3:HL:139:LEU:HD21	3:HL:170:VAL:HG22	1.98	0.46
16:I:180:HIS:HB3	4:KE:357:TYR:CD1	2.51	0.46
4:IA:287:SER:OG	4:IA:290:GLU:OE1	2.25	0.46
3:IB:206:ALA:O	3:IB:210:ILE:HG12	2.15	0.46
4:IC:315:CYS:O	4:IC:351:PHE:HA	2.14	0.46
3:ID:325:GLU:O	3:ID:329:GLN:HG2	2.15	0.46
3:ID:326:VAL:O	3:ID:330:MET:HG2	2.16	0.46
4:IE:11:GLN:HG3	39:IE:501:GTP:O1B	2.16	0.46
4:IE:125:LEU:HD13	4:IE:128:LEU:HD21	1.96	0.46
4:IE:216:ASN:OD1	4:IE:217:LEU:N	2.48	0.46
4:IE:317:MET:HE1	4:IE:351:PHE:HB3	1.98	0.46
4:IG:3:GLU:OE2	4:IG:130:THR:N	2.42	0.46
4:IG:253:THR:O	4:IG:257:THR:HG23	2.16	0.46
3:IH:46:ARG:HH22	3:IH:243:PRO:HD3	1.80	0.46
3:IH:239:CYS:SG	3:IH:248:ALA:HA	2.54	0.46
4:II:363:VAL:H	4:II:368:LEU:HD21	1.80	0.46
3:IJ:153:SER:HB3	3:IJ:191:GLN:NE2	2.30	0.46
4:IK:161:TYR:HB3	4:IK:164:LYS:NZ	2.30	0.46
3:IL:118:ASP:OD1	3:IL:121:ARG:NH1	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IL:206:ALA:O	3:IL:210:ILE:HG12	2.15	0.46
18:J:176:MET:HE2	4:KI:29:GLY:CA	2.46	0.46
19:J3:47:ILE:HA	19:J3:100:ARG:HB3	1.98	0.46
4:JC:402:ARG:HB2	4:JC:405:VAL:HG11	1.97	0.46
3:JD:40:SER:HB3	3:JD:42:LEU:HD23	1.98	0.46
3:JD:268:PRO:HD2	3:JD:301:ALA:HB2	1.98	0.46
4:JE:46:ASP:OD1	4:JE:50:ASN:ND2	2.49	0.46
4:JE:88:HIS:HB3	4:JE:91:GLN:CB	2.42	0.46
3:JF:156:ARG:CZ	3:JF:164:MET:HE3	2.46	0.46
4:JG:317:MET:HE1	4:JG:351:PHE:HB3	1.97	0.46
4:JI:2:ARG:NH1	4:JI:241:SER:O	2.49	0.46
21:K2:371:MET:HE1	21:K2:375:ARG:HH22	1.80	0.46
21:K2:411:GLU:HG3	21:K3:118:ARG:HB3	1.98	0.46
21:K4:373:VAL:O	21:K4:377:ILE:HG13	2.15	0.46
4:KA:5:ILE:HD13	4:KA:64:ARG:HB3	1.96	0.46
3:KB:379:LYS:O	3:KB:382:SER:OG	2.23	0.46
4:KC:226:ASN:ND2	4:KC:229:ARG:HH12	2.07	0.46
4:KC:288:VAL:O	4:KC:292:THR:OG1	2.27	0.46
3:KD:2:ARG:HD3	3:KD:2:ARG:N	2.31	0.46
3:KD:130:LEU:HB2	3:KD:162:ARG:HH11	1.80	0.46
4:KE:56:THR:HB	27:Q:37:ILE:HD13	1.97	0.46
4:KE:70:LEU:HG	4:KE:149:PHE:CZ	2.51	0.46
4:KE:87:PHE:HB3	4:KE:92:LEU:HD21	1.97	0.46
4:KE:155:GLU:O	4:KE:159:VAL:HG13	2.16	0.46
3:KF:249:ASP:HB3	3:KF:252:LYS:HB2	1.98	0.46
3:KF:378:PHE:CD1	3:KF:419:VAL:HG22	2.51	0.46
4:KG:286:LEU:HD11	4:KG:373:ARG:H	1.80	0.46
4:KI:135:PHE:HD2	4:KI:166:LYS:HG3	1.79	0.46
4:KI:345:ASP:N	4:KI:345:ASP:OD1	2.48	0.46
4:KK:388:TRP:HB3	4:KK:425:LEU:HD11	1.96	0.46
4:KK:415:GLU:HA	4:KK:418:PHE:CD2	2.51	0.46
20:L:16:ASN:O	20:L:19:VAL:HG12	2.15	0.46
22:L1:169:GLN:HA	22:L1:172:TYR:HB3	1.95	0.46
22:L3:123:PRO:O	22:L3:136:LEU:HB3	2.16	0.46
4:LA:11:GLN:HG3	39:LA:501:GTP:O1B	2.15	0.46
3:LB:58:LYS:HE2	3:MB:281:TYR:CE1	2.51	0.46
4:LC:288:VAL:O	4:LC:292:THR:OG1	2.18	0.46
4:LC:414:GLU:HG2	4:LC:417:GLU:OE1	2.16	0.46
3:LD:8:GLN:NE2	3:LD:21:TRP:HE1	2.14	0.46
4:LE:154:MET:HE1	4:LE:197:HIS:HB2	1.98	0.46
4:LE:163:LYS:HA	4:LE:163:LYS:HD3	1.74	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:LE:166:LYS:N	4:LE:199:ASP:OD2	2.49	0.46
3:LF:394:PHE:HA	3:LF:397:TRP:HZ3	1.81	0.46
4:LG:119:LEU:HB3	4:LG:123:ARG:NH2	2.30	0.46
4:LG:390:ARG:HA	4:LG:393:HIS:CD2	2.50	0.46
3:LH:134:GLN:HB2	3:LH:167:PHE:CE1	2.50	0.46
3:LJ:8:GLN:NE2	3:LJ:13:GLY:C	2.71	0.46
3:LJ:228:LEU:O	3:LJ:232:THR:HG23	2.16	0.46
3:LL:238:THR:HA	3:LL:241:ARG:HG2	1.98	0.46
3:MB:358:PRO:HB2	3:MB:361:LEU:HD23	1.96	0.46
3:MF:246:LEU:HD22	3:MF:354:CYS:HA	1.97	0.46
4:MG:165:SER:C	4:MG:166:LYS:HD2	2.40	0.46
4:MG:185:TYR:CE2	4:MG:398:MET:HE1	2.50	0.46
4:MG:200:CYS:HB3	4:MG:202:PHE:CE1	2.50	0.46
3:MH:410:GLU:OE1	30:Q2:1419:ARG:NH1	2.49	0.46
3:MJ:16:ILE:HD13	3:MJ:226:ASN:ND2	2.27	0.46
3:MJ:28:HIS:O	3:MJ:43:GLN:NE2	2.48	0.46
3:MJ:114:ASP:N	3:MJ:114:ASP:OD1	2.48	0.46
3:MJ:234:SER:O	3:MJ:238:THR:HG23	2.15	0.46
4:NA:50:ASN:OD1	4:NA:51:THR:N	2.49	0.46
4:NC:306:ASP:OD2	4:NC:309:HIS:N	2.48	0.46
4:NE:10:GLY:O	4:NE:14:VAL:HG13	2.15	0.46
4:NE:192:HIS:CE1	4:NE:193:THR:HG23	2.51	0.46
3:NF:144:GLY:HA2	3:NF:147:MET:HE3	1.96	0.46
3:NL:250:LEU:HD13	3:NL:253:LEU:HD12	1.98	0.46
27:O:55:GLU:O	27:O:59:LYS:N	2.45	0.46
4:OA:93:ILE:HG13	4:OA:118:VAL:HG12	1.97	0.46
3:OB:378:PHE:HA	3:OB:381:ILE:HG22	1.96	0.46
4:OC:6:SER:HB3	4:OC:65:ALA:HB2	1.98	0.46
3:OD:350:LYS:HE3	4:OE:180:ALA:HA	1.98	0.46
4:OE:175:PRO:HB3	4:OE:390:ARG:HD2	1.97	0.46
4:OE:319:TYR:HB2	4:OE:355:ILE:HD13	1.97	0.46
3:OF:182:PRO:HB2	3:OF:388:MET:HE1	1.97	0.46
3:OF:272:PRO:HA	3:OF:292:GLN:OE1	2.16	0.46
4:OI:2:ARG:HA	4:OI:133:GLN:NE2	2.31	0.46
4:OI:252:LEU:HA	4:OI:255:PHE:CD2	2.50	0.46
3:OJ:4:ILE:HB	3:OJ:50:TYR:CE1	2.50	0.46
3:OJ:410:GLU:HA	3:OJ:413:SER:HB3	1.96	0.46
3:OJ:423:GLN:O	3:OJ:427:ASP:N	2.35	0.46
3:OL:11:GLN:HG3	39:OL:501:GTP:PA	2.55	0.46
29:P1:184:VAL:HB	29:P1:197:THR:HB	1.97	0.46
29:P1:571:VAL:N	29:P1:581:HIS:O	2.43	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:P2:106:ARG:O	29:P2:145:ARG:NH2	2.48	0.46
29:P3:285:LYS:NZ	29:P3:319:PHE:O	2.47	0.46
29:P3:366:GLU:OE2	29:P3:369:ARG:HB3	2.14	0.46
3:PB:11:GLN:HG3	39:PB:501:GTP:PA	2.56	0.46
3:PD:324:LYS:NZ	4:PE:222:PRO:O	2.35	0.46
4:PE:184:PRO:HB2	4:PE:398:MET:HE1	1.96	0.46
4:PE:263:PRO:HD3	3:PF:396:HIS:CD2	2.50	0.46
4:PE:423:GLU:HA	4:PE:426:ALA:HB3	1.97	0.46
3:PF:12:CYS:HB3	39:PF:501:GTP:C5'	2.45	0.46
3:PF:234:SER:O	3:PF:238:THR:HG23	2.16	0.46
4:PI:104:ALA:O	4:PI:108:TYR:N	2.45	0.46
4:PI:390:ARG:HA	4:PI:393:HIS:CD2	2.50	0.46
3:PL:268:PRO:HD2	3:PL:301:ALA:HB2	1.98	0.46
4:PM:172:TYR:HB2	4:PM:203:MET:HB3	1.96	0.46
30:Q3:1398:ASP:HA	30:Q3:1401:GLN:HE21	1.81	0.46
30:Q3:1421:GLN:HE21	30:Q3:1467:GLY:HA2	1.79	0.46
3:QB:3:GLU:HG2	3:QB:130:LEU:HD13	1.98	0.46
3:QB:238:THR:HB	3:QB:242:PHE:HD2	1.81	0.46
3:QD:324:LYS:NZ	4:QE:222:PRO:O	2.33	0.46
4:QE:36:MET:HG3	4:QE:41:THR:OG1	2.15	0.46
3:QF:199:THR:O	3:QF:266:PHE:N	2.42	0.46
3:QF:322:SER:OG	3:QF:323:MET:SD	2.73	0.46
3:QF:324:LYS:HE2	4:QG:222:PRO:HD2	1.97	0.46
3:QH:47:ILE:HG21	3:QH:59:TYR:CZ	2.50	0.46
4:QI:202:PHE:CE1	4:QI:378:LEU:HD11	2.51	0.46
4:QI:371:VAL:HG11	4:QI:374:ALA:HB2	1.97	0.46
4:QK:287:SER:OG	4:QK:290:GLU:OE1	2.24	0.46
3:QL:145:SER:HB2	3:QL:188:SER:HB3	1.97	0.46
3:RB:5:VAL:HG23	3:RB:130:LEU:HD21	1.97	0.46
3:RB:206:ALA:O	3:RB:210:ILE:HG12	2.15	0.46
4:RC:76:ASP:OD1	4:RC:79:ARG:NH1	2.49	0.46
4:RE:397:LEU:O	4:RE:401:LYS:HE2	2.15	0.46
4:RG:6:SER:HA	4:RG:136:LEU:HB3	1.98	0.46
4:RG:216:ASN:HD21	4:RG:275:VAL:HG23	1.80	0.46
4:RG:329:ASN:OD1	4:RG:330:ALA:N	2.49	0.46
4:RI:5:ILE:HB	4:RI:135:PHE:HD1	1.79	0.46
4:RI:252:LEU:HA	4:RI:255:PHE:CD2	2.51	0.46
3:RJ:109:GLY:O	3:RJ:113:VAL:HG13	2.16	0.46
3:RJ:166:THR:OG1	3:RJ:198:GLU:O	2.33	0.46
3:RJ:258:VAL:HB	4:RK:407:TRP:HZ2	1.80	0.46
4:RK:263:PRO:O	4:RK:265:ILE:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:RM:169:PHE:CD2	4:RM:202:PHE:HB2	2.51	0.46
4:SC:119:LEU:HD23	4:SC:122:ILE:HD12	1.97	0.46
4:SC:214:ARG:NH1	4:SC:215:ARG:HG2	2.30	0.46
4:SC:402:ARG:NE	4:SC:405:VAL:HG11	2.26	0.46
3:SD:176:SER:O	3:SD:178:THR:N	2.49	0.46
3:SD:350:LYS:HE3	4:SE:181:VAL:H	1.80	0.46
4:SE:252:LEU:HA	4:SE:255:PHE:CD2	2.51	0.46
3:SF:423:GLN:O	3:SF:427:ASP:N	2.40	0.46
4:SG:315:CYS:O	4:SG:351:PHE:HA	2.16	0.46
4:SG:316:CYS:HB3	4:SG:378:LEU:HB3	1.97	0.46
4:SG:319:TYR:HB2	4:SG:355:ILE:HD13	1.96	0.46
4:SG:413:MET:HE2	4:SG:413:MET:HA	1.97	0.46
4:SI:345:ASP:N	4:SI:345:ASP:OD1	2.49	0.46
3:SJ:198:GLU:HA	3:SJ:266:PHE:CE2	2.49	0.46
3:SL:324:LYS:HE2	4:SM:222:PRO:HD2	1.97	0.46
4:SM:117:LEU:O	4:SM:121:ARG:HG2	2.15	0.46
4:SM:139:HIS:CD2	4:SM:170:ALA:HB2	2.50	0.46
3:TB:72:THR:O	3:TB:75:SER:OG	2.29	0.46
4:TC:116:ASP:N	4:TC:116:ASP:OD1	2.48	0.46
4:TC:125:LEU:HD13	4:TC:128:LEU:HD21	1.97	0.46
4:TC:390:ARG:HA	4:TC:393:HIS:CD2	2.50	0.46
4:TG:260:VAL:HG23	4:TG:265:ILE:O	2.16	0.46
4:TG:390:ARG:HA	4:TG:393:HIS:NE2	2.31	0.46
3:TH:181:GLU:O	3:TH:185:ALA:N	2.41	0.46
3:TH:238:THR:HB	3:TH:242:PHE:HD2	1.80	0.46
4:TI:76:ASP:OD1	4:TI:79:ARG:NH1	2.49	0.46
3:TJ:289:LEU:O	3:TJ:293:MET:HG2	2.16	0.46
4:TK:315:CYS:O	4:TK:351:PHE:HA	2.15	0.46
3:TL:47:ILE:HG12	3:TL:59:TYR:CD2	2.50	0.46
3:TL:214:THR:O	3:TL:276:ARG:NH2	2.48	0.46
3:TN:106:TYR:HB2	3:TN:401:GLU:OE2	2.15	0.46
3:TN:183:TYR:CD1	3:TN:388:MET:HE3	2.50	0.46
33:U:248:ARG:O	33:U:251:ARG:HG2	2.16	0.46
3:UB:316:VAL:N	3:UB:366:THR:O	2.43	0.46
3:UH:28:HIS:ND1	3:UH:43:GLN:HB2	2.18	0.46
4:UI:102:ASN:ND2	4:UI:411:GLU:OE2	2.43	0.46
3:UJ:266:PHE:CD1	3:UJ:370:ASN:HB2	2.51	0.46
4:UK:104:ALA:HA	4:UK:107:HIS:HB3	1.97	0.46
4:UK:122:ILE:HD13	4:UK:157:LEU:HD11	1.97	0.46
33:V:515:GLU:HA	33:V:518:LYS:HB2	1.96	0.46
4:VC:125:LEU:HD13	4:VC:128:LEU:HD21	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:VC:186:ASN:OD1	4:VC:187:SER:N	2.48	0.46
4:VC:405:VAL:O	4:VC:409:VAL:HG22	2.15	0.46
3:VD:141:GLY:HA3	39:VD:501:GTP:H5"	1.98	0.46
4:VE:30:ILE:HD13	4:VE:36:MET:SD	2.55	0.46
4:VE:172:TYR:CE2	4:VE:387:ALA:HB1	2.51	0.46
4:VE:321:GLY:HA3	4:VE:372:GLN:O	2.15	0.46
3:VF:166:THR:OG1	3:VF:198:GLU:O	2.33	0.46
4:VG:273:ALA:N	4:VG:377:MET:HE1	2.31	0.46
3:VH:73:MET:HE1	3:VH:92:PHE:CG	2.51	0.46
3:VH:305:PRO:HA	3:VH:373:ALA:HB2	1.97	0.46
3:VH:379:LYS:O	3:VH:382:SER:OG	2.18	0.46
4:VI:116:ASP:N	4:VI:116:ASP:OD1	2.46	0.46
4:VI:285:GLN:NE2	4:VI:286:LEU:O	2.49	0.46
3:VJ:269:GLY:N	3:VJ:367:PHE:O	2.49	0.46
33:W:120:THR:HB	33:W:123:GLU:OE1	2.15	0.46
33:W:123:GLU:OE1	33:W:123:GLU:N	2.46	0.46
4:WA:67:PHE:O	4:WA:93:ILE:N	2.48	0.46
4:WA:182:VAL:O	4:WA:185:TYR:HB2	2.16	0.46
3:WB:2:ARG:HA	3:WB:129:CYS:O	2.15	0.46
4:WC:47:ASP:HB3	4:WC:49:PHE:CE2	2.51	0.46
4:WC:139:HIS:CD2	4:WC:170:ALA:HB2	2.50	0.46
4:WE:102:ASN:HB3	4:WE:105:ARG:HB2	1.96	0.46
4:WE:263:PRO:HB2	4:WE:264:ARG:NH1	2.30	0.46
3:WH:114:ASP:N	3:WH:114:ASP:OD1	2.47	0.46
4:WI:122:ILE:O	4:WI:126:ALA:N	2.44	0.46
4:WI:132:LEU:HD11	35:XL:71:HIS:CG	2.51	0.46
3:WJ:12:CYS:SG	3:WJ:13:GLY:N	2.88	0.46
4:WK:346:TRP:HH2	4:WK:435:VAL:HA	1.80	0.46
3:WL:394:PHE:HA	3:WL:397:TRP:HZ3	1.79	0.46
34:XD:20:LYS:HG3	34:XD:23:GLN:OE1	2.15	0.46
34:XE:27:LYS:HE3	34:XE:57:THR:HG22	1.98	0.46
35:XK:76:ASN:OD1	35:XK:77:LYS:HG2	2.16	0.46
37:YA:59:ASN:HB2	37:YA:62:HIS:CE1	2.51	0.46
37:YB:46:ILE:HG23	37:YB:70:MET:HE1	1.98	0.46
37:YF:125:LEU:HD11	37:YF:138:VAL:HG11	1.97	0.46
37:YG:18:PHE:HA	37:YG:21:GLN:HB2	1.96	0.46
37:YI:110:LEU:HB3	37:YI:140:LEU:HD22	1.98	0.46
37:YJ:82:HIS:O	37:YJ:86:LEU:HG	2.14	0.46
37:YK:137:VAL:HA	37:YK:140:LEU:HD22	1.98	0.46
37:YN:110:LEU:HG	37:YN:113:LEU:HD11	1.96	0.46
37:YQ:5:LYS:H	37:YQ:5:LYS:HE2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:117:GLU:O	2:A2:120:GLU:HG3	2.16	0.46
2:A3:152:ARG:NH1	17:I3:74:SER:HA	2.30	0.46
2:A3:289:ILE:HG12	2:A3:365:LEU:HB3	1.98	0.46
2:A4:241:LEU:O	2:A4:245:ILE:HG12	2.16	0.46
3:AB:12:CYS:HA	39:AB:501:GTP:N2	2.31	0.46
3:AB:289:LEU:O	3:AB:293:MET:N	2.44	0.46
3:AB:357:PRO:HB3	3:AB:362:LYS:HA	1.98	0.46
4:AC:165:SER:C	4:AC:166:LYS:HD2	2.41	0.46
4:AC:363:VAL:H	4:AC:368:LEU:HD21	1.81	0.46
4:AE:261:PRO:HA	3:AF:394:PHE:CE1	2.50	0.46
3:AF:152:ILE:HA	3:AF:155:ILE:HG12	1.98	0.46
4:AG:252:LEU:HA	4:AG:255:PHE:CD2	2.51	0.46
3:AH:21:TRP:CZ2	3:AH:63:ALA:HB2	2.51	0.46
3:AJ:118:ASP:O	3:AJ:122:LYS:HG3	2.16	0.46
3:AL:114:ASP:OD1	3:AL:115:SER:N	2.48	0.46
4:AM:320:ARG:HG2	4:AM:358:GLN:O	2.15	0.46
5:B1:315:HIS:HD2	5:B2:201:LEU:CD1	2.29	0.46
5:B2:203:VAL:HG13	5:B2:207:ARG:NH2	2.30	0.46
5:B3:72:ASN:OD1	5:B3:73:ARG:N	2.48	0.46
5:B3:187:ARG:HD3	10:E2:154:ASN:HA	1.96	0.46
5:B3:276:TYR:CZ	5:B3:280:LYS:HD3	2.51	0.46
5:B3:326:ASN:OD1	5:B3:327:VAL:N	2.43	0.46
5:B9:377:ILE:HA	5:B9:380:LYS:HE2	1.98	0.46
3:BD:218:THR:OG1	3:BD:219:THR:N	2.48	0.46
3:BF:350:LYS:HE3	4:BG:180:ALA:HA	1.98	0.46
3:BJ:272:PRO:HA	3:BJ:292:GLN:OE1	2.15	0.46
3:BL:47:ILE:HG12	3:BL:59:TYR:CD2	2.51	0.46
3:BL:332:ASN:O	3:BL:336:LYS:N	2.48	0.46
4:BM:116:ASP:N	4:BM:116:ASP:OD1	2.44	0.46
6:C:137:PHE:CD1	6:C:182:ILE:HD12	2.50	0.46
7:C2:250:ALA:HA	7:C2:253:GLU:OE1	2.16	0.46
7:C8:275:ARG:HD3	7:C8:276:ASN:O	2.16	0.46
3:CB:11:GLN:O	3:CB:14:ASN:HB2	2.14	0.46
3:CB:31:ASP:OD1	3:CB:35:THR:N	2.49	0.46
4:CC:68:VAL:HG12	4:CC:93:ILE:HB	1.97	0.46
3:CD:44:LEU:HD21	15:H2:247:PHE:CE2	2.51	0.46
4:CE:51:THR:HG23	4:CE:52:PHE:CD2	2.50	0.46
4:CG:93:ILE:HG13	4:CG:118:VAL:HG12	1.98	0.46
4:CG:161:TYR:O	4:CG:166:LYS:NZ	2.41	0.46
4:CG:174:ALA:HB3	4:CG:177:VAL:O	2.16	0.46
4:CG:388:TRP:HA	4:CG:391:LEU:HG	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CH:332:ASN:O	3:CH:336:LYS:HG2	2.15	0.46
3:CH:337:ASN:HB2	3:CH:340:TYR:HB2	1.98	0.46
3:CH:350:LYS:HZ1	4:CI:181:VAL:HG13	1.80	0.46
3:CL:2:ARG:HB3	3:CL:131:GLN:CD	2.41	0.46
3:CL:240:LEU:HD22	3:CL:248:ALA:HB1	1.98	0.46
4:CM:84:ARG:HG3	15:H6:215:ARG:HH21	1.79	0.46
4:CM:254:GLU:OE1	4:CM:254:GLU:N	2.47	0.46
7:Ca:332:THR:O	7:Ca:336:MET:HG2	2.16	0.46
7:Cb:124:THR:O	7:Cb:127:LEU:HG	2.15	0.46
7:Cc:399:ARG:NH1	7:Cd:143:THR:HG22	2.31	0.46
8:D1:63:ARG:HD2	8:D1:64:TYR:N	2.31	0.46
8:D2:257:TRP:NE1	8:D2:261:ASN:HD21	2.14	0.46
8:D8:131:MET:HE3	8:D8:279:ARG:HH11	1.80	0.46
3:DB:121:ARG:HA	3:DB:124:ALA:HB3	1.98	0.46
4:DC:79:ARG:CG	15:H2:282:ILE:HG21	2.44	0.46
3:DD:23:VAL:O	3:DD:27:GLU:N	2.35	0.46
3:DD:66:VAL:HG13	3:DD:147:MET:SD	2.56	0.46
3:DD:252:LYS:O	3:DD:256:ASN:ND2	2.48	0.46
4:DE:208:ALA:N	4:DE:304:LYS:HZ1	2.13	0.46
3:DF:392:LYS:HD2	3:DF:392:LYS:O	2.15	0.46
4:DG:87:PHE:HB3	4:DG:92:LEU:HD21	1.97	0.46
4:DG:113:GLU:OE1	4:DG:113:GLU:N	2.47	0.46
4:DG:139:HIS:CD2	4:DG:170:ALA:HB2	2.51	0.46
3:DH:51:TYR:HD2	3:DH:59:TYR:HB3	1.81	0.46
4:DI:186:ASN:OD1	4:DI:187:SER:N	2.48	0.46
3:DL:109:GLY:O	3:DL:113:VAL:HG13	2.16	0.46
3:DL:379:LYS:O	3:DL:382:SER:OG	2.18	0.46
3:DL:406:MET:O	3:DL:409:THR:OG1	2.26	0.46
10:E1:102:GLN:OE1	10:E1:114:ARG:NH2	2.40	0.46
4:EA:6:SER:HA	4:EA:136:LEU:HB2	1.96	0.46
3:ED:61:PRO:HD3	3:ED:84:ILE:HG13	1.98	0.46
3:ED:231:ALA:HB2	13:G1:387:TYR:OH	2.15	0.46
3:ED:316:VAL:HG23	3:ED:352:ALA:HB3	1.97	0.46
4:EE:230:LEU:O	4:EE:234:ILE:HG12	2.16	0.46
4:EE:273:ALA:HB3	4:EE:274:PRO:HD3	1.98	0.46
39:EE:501:GTP:N3	39:EE:501:GTP:O4'	2.47	0.46
4:EK:50:ASN:O	4:EK:64:ARG:NH1	2.48	0.46
4:EK:79:ARG:NH2	4:EK:89:PRO:O	2.45	0.46
4:EK:202:PHE:O	4:EK:203:MET:HE2	2.16	0.46
3:EL:166:THR:OG1	3:EL:198:GLU:O	2.31	0.46
3:EL:309:ARG:O	3:EL:371:SER:OG	2.24	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:F2:233:ALA:O	11:F2:236:ILE:HG12	2.16	0.46
11:F2:360:GLN:O	11:F2:361:LEU:C	2.58	0.46
11:F3:181:ALA:HB2	11:F3:229:MET:CE	2.45	0.46
11:F6:412:PRO:O	11:F6:416:LEU:HG	2.15	0.46
11:F7:393:GLN:HA	11:F7:396:LEU:HG	1.96	0.46
11:F9:416:LEU:O	11:F9:420:VAL:HG23	2.16	0.46
4:FA:280:LYS:HZ1	4:FA:284:GLU:CD	2.23	0.46
3:FB:169:VAL:HG23	3:FB:202:ILE:HB	1.97	0.46
3:FB:289:LEU:O	3:FB:293:MET:N	2.44	0.46
4:FC:12:ALA:O	39:FC:501:GTP:N1	2.49	0.46
4:FC:260:VAL:HG23	4:FC:265:ILE:O	2.16	0.46
4:FC:438:ASP:C	3:FD:391:ARG:HH12	2.24	0.46
3:FD:139:LEU:N	3:FD:168:SER:OG	2.48	0.46
4:FE:279:GLU:O	4:FE:282:TYR:HB3	2.16	0.46
3:FF:51:TYR:CE1	3:FF:61:PRO:HA	2.51	0.46
3:FF:216:LYS:HB3	3:FF:276:ARG:NH2	2.31	0.46
3:FF:218:THR:OG1	3:FF:219:THR:N	2.49	0.46
4:FG:104:ALA:HB1	4:FG:108:TYR:HD2	1.81	0.46
4:FG:206:ASN:OD1	4:FG:207:GLU:N	2.49	0.46
4:FG:331:ALA:O	4:FG:334:THR:OG1	2.29	0.46
11:Fb:357:LEU:HB3	11:Fb:455:LEU:HD21	1.97	0.46
11:Fj:190:VAL:O	11:Fj:193:GLU:HG2	2.15	0.46
11:Fk:126:ASP:OD1	11:Fk:127:LYS:N	2.49	0.46
11:Fk:231:LYS:O	11:Fk:235:ARG:HB2	2.15	0.46
11:Fl:197:ASN:HB3	11:Fl:468:LYS:HZ1	1.80	0.46
14:G4:404:ARG:HD3	14:G4:412:THR:O	2.15	0.46
14:G4:628:LYS:HD2	14:G4:699:TRP:CH2	2.50	0.46
14:G5:701:MET:N	14:G5:701:MET:SD	2.88	0.46
14:G6:306:VAL:HB	14:G6:316:ASP:OD2	2.16	0.46
14:G6:699:TRP:HB2	14:G6:702:ASN:ND2	2.31	0.46
14:G6:737:ASP:OD1	14:G6:738:PHE:N	2.43	0.46
4:GA:256:GLN:O	4:GA:260:VAL:HG12	2.16	0.46
4:GC:3:GLU:OE2	4:GC:130:THR:N	2.43	0.46
4:GC:9:VAL:HA	4:GC:68:VAL:HG23	1.98	0.46
4:GC:118:VAL:HA	4:GC:121:ARG:HG2	1.96	0.46
4:GC:269:LEU:N	4:GC:379:SER:O	2.34	0.46
3:GD:350:LYS:HE3	4:GE:181:VAL:H	1.81	0.46
4:GE:2:ARG:O	4:GE:51:THR:OG1	2.26	0.46
4:GE:139:HIS:CD2	4:GE:170:ALA:HB2	2.51	0.46
4:GE:345:ASP:OD1	4:GE:345:ASP:N	2.48	0.46
3:GF:217:LEU:O	3:GF:219:THR:N	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GF:318:ARG:HD3	3:GF:358:PRO:HG3	1.96	0.46
4:GG:208:ALA:H	4:GG:304:LYS:NZ	2.14	0.46
3:GH:47:ILE:HG12	3:GH:59:TYR:CD2	2.51	0.46
3:GH:218:THR:OG1	3:GH:219:THR:N	2.49	0.46
4:GI:35:GLN:HG2	4:GI:59:GLY:O	2.15	0.46
4:GI:165:SER:C	4:GI:166:LYS:HD2	2.40	0.46
3:GJ:309:ARG:N	3:GJ:372:THR:OG1	2.28	0.46
4:GK:280:LYS:O	4:GK:284:GLU:HB2	2.16	0.46
3:GL:8:GLN:NE2	3:GL:64:VAL:O	2.48	0.46
4:HA:88:HIS:CE1	4:HA:90:GLU:HG2	2.50	0.46
4:HA:287:SER:N	4:HA:290:GLU:OE2	2.48	0.46
4:HC:166:LYS:O	4:HC:199:ASP:HB3	2.16	0.46
4:HC:318:LEU:O	4:HC:318:LEU:HD12	2.16	0.46
3:HF:357:PRO:O	3:HF:359:ARG:NH1	2.41	0.46
4:HG:332:ILE:O	4:HG:335:ILE:HG22	2.15	0.46
3:HH:152:ILE:O	3:HH:156:ARG:HG2	2.16	0.46
4:HI:3:GLU:N	4:HI:133:GLN:OE1	2.49	0.46
4:HI:90:GLU:OE1	4:HI:90:GLU:N	2.49	0.46
3:HJ:12:CYS:O	3:HJ:15:GLN:N	2.43	0.46
3:HJ:101:TRP:CE3	3:HJ:187:LEU:HD13	2.51	0.46
17:I1:56:GLY:HA2	17:I1:59:LYS:HZ2	1.80	0.46
3:IB:316:VAL:HG22	3:IB:352:ALA:HB3	1.98	0.46
3:ID:8:GLN:HE21	3:ID:13:GLY:C	2.23	0.46
3:ID:91:VAL:HG11	3:ID:116:VAL:HG12	1.96	0.46
3:ID:321:MET:SD	3:ID:322:SER:N	2.88	0.46
4:IE:1:MET:N	4:IE:130:THR:OG1	2.49	0.46
3:IH:249:ASP:O	3:IH:253:LEU:HG	2.16	0.46
3:IH:324:LYS:HD3	4:II:210:TYR:CE1	2.50	0.46
3:IL:182:PRO:HB2	3:IL:388:MET:HE1	1.96	0.46
3:IL:249:ASP:O	3:IL:252:LYS:HB3	2.16	0.46
18:J:142:TYR:CE1	18:J:144:LEU:HB3	2.50	0.46
19:J2:165:VAL:HA	19:J2:178:ILE:HG23	1.97	0.46
3:JB:48:ASN:HA	3:JB:51:TYR:O	2.15	0.46
4:JC:272:TYR:CZ	4:JC:274:PRO:HG2	2.51	0.46
4:JE:105:ARG:HG2	4:JE:109:THR:HG21	1.97	0.46
4:JE:390:ARG:HA	4:JE:393:HIS:CE1	2.50	0.46
4:JG:47:ASP:HB3	4:JG:49:PHE:CE2	2.50	0.46
4:JG:408:TYR:CD2	4:JG:418:PHE:HZ	2.34	0.46
3:JH:12:CYS:SG	3:JH:13:GLY:N	2.88	0.46
3:JH:423:GLN:O	3:JH:427:ASP:N	2.44	0.46
4:JI:397:LEU:O	4:JI:401:LYS:HG2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:JK:296:PHE:HE1	4:JK:377:MET:HE2	1.80	0.46
3:JL:272:PRO:HA	3:JL:292:GLN:OE1	2.16	0.46
20:K:149:ASN:OD1	20:K:197:GLN:NE2	2.49	0.46
21:K2:261:ARG:HD2	21:K2:264:TRP:CE3	2.50	0.46
21:K4:243:GLN:N	21:K4:243:GLN:OE1	2.48	0.46
4:KA:12:ALA:O	39:KA:501:GTP:N1	2.49	0.46
3:KB:285:THR:O	3:KB:288:GLU:HG3	2.15	0.46
4:KC:252:LEU:HA	4:KC:255:PHE:CD2	2.50	0.46
4:KC:329:ASN:OD1	4:KC:330:ALA:N	2.49	0.46
4:KI:70:LEU:HA	4:KI:95:GLY:HA3	1.97	0.46
4:KI:246:GLY:HA3	4:KI:355:ILE:O	2.15	0.46
4:KI:272:TYR:CE1	4:KI:374:ALA:HB1	2.51	0.46
3:KJ:345:ILE:HD12	3:KJ:346:PRO:HD2	1.98	0.46
3:KJ:378:PHE:CD1	3:KJ:419:VAL:HG22	2.50	0.46
4:KK:172:TYR:CD1	4:KK:173:PRO:HD2	2.51	0.46
4:KK:235:VAL:HA	4:KK:238:ILE:HG12	1.96	0.46
4:KK:272:TYR:HD2	4:KK:275:VAL:HG13	1.80	0.46
4:KK:319:TYR:HB2	4:KK:355:ILE:HD13	1.98	0.46
22:L1:193:ARG:HH21	22:L1:244:ILE:C	2.23	0.46
22:L2:233:GLU:HG3	36:Y:58:ARG:HH12	1.81	0.46
4:LA:216:ASN:HD21	4:LA:275:VAL:HG23	1.81	0.46
3:LB:230:SER:O	3:LB:234:SER:N	2.38	0.46
4:LC:260:VAL:HG23	4:LC:265:ILE:O	2.15	0.46
3:LD:186:THR:HB	3:LD:385:PHE:CZ	2.51	0.46
4:LE:75:VAL:HG23	4:LE:92:LEU:HD12	1.96	0.46
4:LE:168:GLU:HB2	4:LE:201:ALA:HA	1.97	0.46
3:LF:28:HIS:ND1	3:LF:43:GLN:HB2	2.30	0.46
3:LF:183:TYR:CD1	3:LF:388:MET:HE3	2.51	0.46
4:LG:345:ASP:N	4:LG:345:ASP:OD1	2.48	0.46
3:LH:389:PHE:CE1	3:LH:408:PHE:HD2	2.34	0.46
4:LI:186:ASN:OD1	4:LI:187:SER:N	2.49	0.46
4:LK:186:ASN:OD1	4:LK:187:SER:N	2.48	0.46
4:LK:389:ALA:HA	4:LK:392:ASP:OD2	2.16	0.46
4:MC:318:LEU:O	4:MC:375:VAL:HA	2.16	0.46
4:MC:327:ASP:OD1	4:MC:328:VAL:N	2.49	0.46
3:MD:204:ASN:HA	3:MD:207:LEU:HD12	1.98	0.46
3:MD:217:LEU:O	3:MD:219:THR:N	2.48	0.46
3:MF:218:THR:OG1	3:MF:219:THR:N	2.48	0.46
4:MG:175:PRO:O	4:MG:390:ARG:HD3	2.15	0.46
4:MI:16:ILE:HG13	4:MI:17:GLY:N	2.31	0.46
4:MI:160:ASP:OD1	4:MI:161:TYR:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MI:414:GLU:HG2	4:MI:417:GLU:OE1	2.15	0.46
3:ML:11:GLN:OE1	39:ML:501:GTP:N2	2.48	0.46
3:ML:392:LYS:HD2	3:ML:392:LYS:O	2.15	0.46
3:ND:47:ILE:HG21	3:ND:59:TYR:CZ	2.51	0.46
4:NE:154:MET:HA	4:NE:157:LEU:HG	1.97	0.46
3:NH:317:PHE:O	3:NH:354:CYS:N	2.42	0.46
4:NK:296:PHE:CE2	4:NK:335:ILE:HG21	2.50	0.46
28:O2:46:ARG:HD2	28:O2:48:HIS:CD2	2.51	0.46
4:OA:261:PRO:HA	3:OB:394:PHE:CE1	2.51	0.46
3:OB:24:ILE:HG23	3:OB:28:HIS:CD2	2.50	0.46
3:OD:52:ASN:CG	3:OD:62:ARG:HD3	2.41	0.46
4:OG:256:GLN:HE22	3:OH:397:TRP:HE1	1.64	0.46
4:OI:236:SER:O	4:OI:243:ARG:NH2	2.36	0.46
3:OJ:21:TRP:CZ2	3:OJ:63:ALA:HB2	2.51	0.46
3:OJ:206:ALA:O	3:OJ:210:ILE:HG12	2.15	0.46
3:OL:137:HIS:O	3:OL:168:SER:HA	2.16	0.46
3:PB:130:LEU:HB2	3:PB:162:ARG:HH11	1.79	0.46
4:PC:83:TYR:HB3	4:PC:86:LEU:HD12	1.98	0.46
3:PD:172:SER:OG	3:PD:205:GLU:OE2	2.21	0.46
3:PJ:54:ALA:HA	3:QJ:283:ALA:HB2	1.96	0.46
27:Q:14:ASN:O	27:Q:18:LYS:HG3	2.16	0.46
27:Q:102:GLN:C	27:Q:104:PRO:HD2	2.41	0.46
27:Q:179:LEU:HA	27:Q:182:HIS:CE1	2.51	0.46
3:QB:52:ASN:ND2	3:QB:62:ARG:HD3	2.30	0.46
4:QC:36:MET:HG3	4:QC:41:THR:OG1	2.16	0.46
3:QD:345:ILE:HD12	3:QD:346:PRO:HD2	1.97	0.46
4:QE:10:GLY:O	4:QE:14:VAL:HG13	2.15	0.46
4:QE:318:LEU:O	4:QE:375:VAL:HA	2.16	0.46
4:QG:42:ILE:HG12	4:QG:55:GLU:OE2	2.16	0.46
3:QH:4:ILE:HB	3:QH:50:TYR:CE1	2.51	0.46
3:QH:375:GLN:HA	3:QH:378:PHE:CE1	2.51	0.46
4:QI:36:MET:HE3	4:QI:36:MET:HA	1.97	0.46
3:QJ:214:THR:HG21	3:QJ:273:LEU:HB3	1.98	0.46
4:QK:119:LEU:HA	4:QK:122:ILE:HG12	1.98	0.46
3:QL:2:ARG:HA	3:QL:129:CYS:O	2.15	0.46
4:QM:119:LEU:HD23	4:QM:122:ILE:HD12	1.96	0.46
4:QM:140:SER:HA	4:QM:170:ALA:HB1	1.98	0.46
4:QM:285:GLN:NE2	4:QM:286:LEU:O	2.48	0.46
27:R:310:ASP:O	27:R:314:ILE:HG13	2.16	0.46
3:RB:211:CYS:O	3:RB:216:LYS:N	2.45	0.46
3:RB:215:LEU:O	3:RB:216:LYS:HG2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:RC:317:MET:HB3	4:RC:377:MET:HE1	1.98	0.46
3:RD:156:ARG:NH1	3:RD:195:ASN:O	2.47	0.46
4:RE:394:LYS:O	4:RE:398:MET:HG2	2.16	0.46
3:RF:68:LEU:HD12	3:RF:97:ALA:HB2	1.98	0.46
4:RG:9:VAL:HG22	4:RG:146:GLY:HA2	1.98	0.46
4:RG:405:VAL:O	4:RG:409:VAL:HG22	2.15	0.46
3:RH:256:ASN:HB3	3:RH:350:LYS:HG3	1.98	0.46
4:RI:166:LYS:N	4:RI:199:ASP:OD2	2.48	0.46
3:RJ:130:LEU:HB2	3:RJ:162:ARG:HH11	1.81	0.46
3:RJ:156:ARG:NH1	3:RJ:195:ASN:O	2.48	0.46
3:RJ:295:ASP:HB2	3:RJ:298:ASN:HB2	1.97	0.46
3:RL:32:PRO:C	3:RL:83:GLN:HE21	2.23	0.46
3:SD:97:ALA:O	3:SD:103:LYS:HE2	2.15	0.46
3:SD:151:LEU:HD22	3:SD:154:LYS:HZ1	1.80	0.46
3:SD:324:LYS:NZ	4:SE:222:PRO:O	2.30	0.46
3:SF:73:MET:HE1	3:SF:92:PHE:CG	2.51	0.46
3:SF:130:LEU:HB2	3:SF:162:ARG:HH11	1.80	0.46
3:SF:374:ILE:HA	3:SF:377:LEU:HD13	1.98	0.46
4:SG:257:THR:HA	3:SH:397:TRP:CE2	2.50	0.46
3:SH:1:MET:HE1	3:SH:49:VAL:HA	1.96	0.46
3:SH:19:LYS:NZ	3:SH:223:GLY:O	2.48	0.46
4:SK:135:PHE:HD2	4:SK:166:LYS:HG3	1.81	0.46
4:SK:346:TRP:HE1	3:SL:391:ARG:NH1	2.13	0.46
32:T:266:LEU:HG	32:T:270:TRP:CB	2.46	0.46
4:TE:329:ASN:OD1	4:TE:330:ALA:N	2.48	0.46
4:TM:316:CYS:N	4:TM:378:LEU:O	2.49	0.46
33:U:426:GLU:O	33:U:430:PHE:N	2.47	0.46
3:UB:120:VAL:O	3:UB:124:ALA:N	2.45	0.46
4:UC:220:GLU:O	4:UC:221:ARG:NE	2.47	0.46
4:UE:333:ALA:HA	4:UE:336:LYS:HD2	1.98	0.46
4:UG:278:ALA:O	4:UG:370:LYS:NZ	2.49	0.46
3:UH:19:LYS:NZ	3:UH:223:GLY:O	2.46	0.46
4:UI:7:ILE:N	4:UI:136:LEU:O	2.26	0.46
4:UI:192:HIS:CE1	4:UI:193:THR:HG23	2.51	0.46
3:UJ:21:TRP:CD1	3:UJ:85:PHE:HZ	2.32	0.46
3:UL:101:TRP:HB2	3:UL:184:ASN:HD22	1.81	0.46
4:VA:208:ALA:N	4:VA:304:LYS:HZ1	2.13	0.46
3:VB:213:ARG:CZ	3:VB:297:LYS:HB3	2.46	0.46
4:VC:185:TYR:CZ	4:VC:398:MET:HE1	2.51	0.46
3:VD:328:GLU:OE1	3:VD:332:ASN:ND2	2.48	0.46
4:VE:10:GLY:O	4:VE:14:VAL:HG13	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:VE:50:ASN:OD1	4:VE:51:THR:N	2.48	0.46
3:VF:176:SER:O	3:VF:178:THR:N	2.49	0.46
3:VF:234:SER:O	3:VF:238:THR:HG23	2.15	0.46
4:VI:88:HIS:HB3	4:VI:91:GLN:HG3	1.98	0.46
3:VJ:175:VAL:HG22	3:VJ:177:ASP:H	1.81	0.46
33:W:324:ARG:HA	33:W:327:ALA:HB3	1.98	0.46
4:WA:212:ILE:HG13	4:WA:215:ARG:NH2	2.31	0.46
4:WC:178:SER:OG	4:WC:180:ALA:O	2.33	0.46
4:WC:188:ILE:HG22	4:WC:421:ALA:HB1	1.96	0.46
3:WD:77:ARG:HD3	3:WD:90:PHE:CE2	2.50	0.46
3:WF:268:PRO:HD2	3:WF:301:ALA:HB2	1.97	0.46
3:WF:286:VAL:HG21	3:WF:325:GLU:HG3	1.98	0.46
34:XA:74:PRO:O	34:XA:136:LEU:N	2.44	0.46
34:XA:90:GLU:OE2	34:XA:102:ARG:HB3	2.15	0.46
34:XE:22:LEU:HA	34:XE:25:TRP:CD1	2.51	0.46
35:XI:130:ILE:HG13	35:XI:131:PRO:CD	2.45	0.46
36:Y:179:TRP:O	36:Y:183:VAL:HG23	2.16	0.46
36:Y:188:GLU:HA	36:Y:191:PHE:HB3	1.98	0.46
37:YG:29:LEU:HB3	37:YG:33:ARG:HH12	1.81	0.46
37:YJ:136:GLY:O	37:YJ:140:LEU:N	2.42	0.46
37:YJ:142:PRO:HA	37:YJ:145:LEU:HB3	1.97	0.46
37:YK:62:HIS:O	37:YK:66:LEU:HD12	2.16	0.46
37:YL:59:ASN:HB2	37:YL:62:HIS:CE1	2.50	0.46
37:YP:153:ALA:O	37:YP:157:LYS:NZ	2.43	0.46
37:YQ:120:GLU:OE1	37:YQ:124:HIS:HB2	2.16	0.46
37:YV:5:LYS:HG3	37:YV:9:ARG:HH21	1.81	0.46
1:A:88:GLU:HB2	1:A:92:ARG:NH1	2.31	0.46
1:A:161:ILE:O	1:A:164:GLU:N	2.49	0.46
1:A:218:GLU:OE2	1:A:221:ARG:NH2	2.49	0.46
2:A1:152:ARG:HA	2:A1:155:GLU:CD	2.40	0.46
2:A1:343:GLU:O	2:A1:347:ASN:ND2	2.49	0.46
2:A3:79:ASP:O	2:A3:82:GLU:HG2	2.15	0.46
2:A3:282:LEU:HB2	2:A3:372:LEU:CD2	2.46	0.46
2:A4:32:SER:HA	5:B2:55:TRP:CZ3	2.50	0.46
3:AB:299:MET:SD	3:AB:301:ALA:N	2.88	0.46
4:AC:263:PRO:HB2	4:AC:264:ARG:HH11	1.81	0.46
3:AD:289:LEU:O	3:AD:293:MET:N	2.42	0.46
4:AE:264:ARG:HH12	34:XC:116:PRO:HG2	1.80	0.46
4:AG:269:LEU:N	4:AG:379:SER:O	2.31	0.46
4:AG:388:TRP:HB3	4:AG:425:LEU:HD11	1.97	0.46
4:AI:331:ALA:O	4:AI:334:THR:OG1	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AI:352:LYS:HZ2	3:AJ:178:THR:HA	1.81	0.46
3:AJ:285:THR:O	3:AJ:288:GLU:HG3	2.16	0.46
4:AK:263:PRO:HB2	4:AK:264:ARG:NH1	2.30	0.46
3:AL:91:VAL:HG11	3:AL:116:VAL:HG12	1.98	0.46
3:AL:378:PHE:CD1	3:AL:419:VAL:HG22	2.50	0.46
4:AM:254:GLU:OE1	4:AM:254:GLU:N	2.48	0.46
4:AM:311:LYS:N	4:AM:382:THR:OG1	2.48	0.46
5:B1:408:VAL:HG23	5:B1:409:ASP:H	1.80	0.46
5:B2:72:ASN:OD1	5:B2:73:ARG:N	2.49	0.46
5:B2:102:ASN:O	5:B2:106:LYS:NZ	2.48	0.46
5:B3:117:LEU:O	5:B3:121:GLU:HG2	2.16	0.46
5:B3:129:VAL:H	5:B4:11:ARG:NH2	2.06	0.46
5:B3:233:MET:O	5:B3:236:SER:OG	2.22	0.46
5:B7:166:GLN:O	5:B7:169:ARG:HG2	2.15	0.46
5:B7:227:ASN:O	5:B7:230:GLU:HG3	2.16	0.46
5:B7:363:LEU:O	5:B7:366:LEU:HG	2.15	0.46
5:B8:165:LEU:HD21	5:B8:232:GLU:HB3	1.97	0.46
4:BC:246:GLY:HA3	4:BC:355:ILE:O	2.16	0.46
3:BD:6:HIS:HD2	3:BD:134:GLN:HG2	1.80	0.46
4:BE:184:PRO:HB2	4:BE:395:PHE:HD1	1.81	0.46
4:BG:262:TYR:OH	3:BH:391:ARG:O	2.33	0.46
4:BI:113:GLU:N	4:BI:113:GLU:OE1	2.48	0.46
4:BK:319:TYR:HB2	4:BK:355:ILE:HD13	1.97	0.46
4:BM:230:LEU:O	4:BM:234:ILE:HG12	2.15	0.46
6:C:266:HIS:CG	6:C:267:ALA:N	2.84	0.46
6:C:346:PRO:HB3	6:C:351:ILE:HG22	1.97	0.46
7:C2:207:GLY:O	7:C2:210:LEU:HD22	2.16	0.46
7:C3:140:ALA:O	7:C3:143:THR:OG1	2.31	0.46
7:C3:141:HIS:C	7:C4:419:ARG:HH12	2.24	0.46
7:C3:216:GLU:HA	7:C3:219:LEU:HD12	1.97	0.46
7:C7:156:TRP:HA	7:C7:159:GLU:OE1	2.16	0.46
4:CC:84:ARG:HD3	4:CC:85:GLN:OE1	2.16	0.46
4:CC:387:ALA:O	4:CC:391:LEU:HG	2.16	0.46
4:CE:34:GLY:HA2	4:CE:86:LEU:HD11	1.98	0.46
3:CF:406:MET:O	3:CF:409:THR:OG1	2.31	0.46
4:CG:54:SER:N	4:CG:62:VAL:O	2.49	0.46
4:CG:116:ASP:N	4:CG:116:ASP:OD1	2.45	0.46
4:CG:165:SER:C	4:CG:166:LYS:HD2	2.41	0.46
3:CJ:378:PHE:CD1	3:CJ:419:VAL:HG22	2.50	0.46
4:CK:119:LEU:HB3	4:CK:123:ARG:NH2	2.30	0.46
3:CL:31:ASP:N	3:CL:31:ASP:OD1	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CL:269:GLY:O	3:CL:367:PHE:N	2.36	0.46
7:Cc:273:HIS:HA	7:Cc:275:ARG:NH1	2.31	0.46
8:D2:88:THR:HB	8:D3:346:LYS:HE3	1.97	0.46
8:D4:267:ARG:HA	8:D4:270:ARG:HH21	1.80	0.46
8:D6:391:LEU:O	8:D6:395:LEU:HG	2.16	0.46
8:D7:249:GLU:HG2	8:D7:250:SER:N	2.29	0.46
8:D8:447:GLN:HE22	11:F2:362:ALA:C	2.23	0.46
8:D9:103:VAL:O	8:D9:107:LEU:HG	2.16	0.46
8:D9:109:ASP:O	8:D9:113:TRP:HD1	1.99	0.46
4:DA:206:ASN:OD1	4:DA:207:GLU:N	2.49	0.46
4:DA:235:VAL:HA	4:DA:238:ILE:HG12	1.97	0.46
3:DD:87:PRO:HA	3:DD:90:PHE:CD2	2.51	0.46
3:DD:245:GLN:HE22	4:DE:15:GLN:HE22	1.63	0.46
3:DD:357:PRO:HB3	3:DD:362:LYS:O	2.15	0.46
4:DE:148:GLY:O	4:DE:151:SER:OG	2.28	0.46
4:DE:421:ALA:O	4:DE:425:LEU:N	2.36	0.46
3:DF:238:THR:HA	3:DF:241:ARG:HG2	1.98	0.46
4:DG:109:THR:O	4:DG:112:LYS:NZ	2.48	0.46
4:DG:145:THR:HG23	39:DG:501:GTP:O3B	2.16	0.46
4:DG:196:GLU:OE1	4:DG:196:GLU:N	2.43	0.46
4:DG:321:GLY:N	4:DG:356:ASN:O	2.34	0.46
3:DH:172:SER:HB3	3:DH:175:VAL:O	2.16	0.46
4:DI:4:CYS:HA	4:DI:132:LEU:HD12	1.97	0.46
4:DI:35:GLN:HG2	4:DI:59:GLY:O	2.15	0.46
4:DI:345:ASP:N	4:DI:345:ASP:OD1	2.49	0.46
3:DJ:12:CYS:SG	3:DJ:13:GLY:N	2.89	0.46
3:DJ:214:THR:HG21	3:DJ:273:LEU:HB3	1.98	0.46
3:DJ:392:LYS:HD2	3:DJ:392:LYS:O	2.15	0.46
4:DK:30:ILE:HG23	4:DK:61:HIS:CD2	2.51	0.46
10:E1:13:VAL:N	10:E1:14:PRO:HD3	2.31	0.46
10:E2:49:TRP:HA	10:E2:62:VAL:HA	1.97	0.46
10:E2:147:LYS:HE2	10:E2:148:GLU:HB2	1.98	0.46
4:EA:196:GLU:HG2	4:EA:197:HIS:ND1	2.31	0.46
4:EC:125:LEU:HD23	4:EC:128:LEU:HD21	1.98	0.46
4:EC:216:ASN:ND2	4:EC:275:VAL:HG23	2.30	0.46
4:EC:425:LEU:HA	4:EC:428:LEU:HB2	1.98	0.46
4:EE:143:GLY:O	4:EE:147:SER:OG	2.24	0.46
4:EE:149:PHE:O	4:EE:153:LEU:HD23	2.16	0.46
4:EE:326:LYS:HZ3	3:EF:211:CYS:HB3	1.80	0.46
4:EE:371:VAL:HG21	4:EE:374:ALA:HB2	1.96	0.46
4:EG:70:LEU:HA	4:EG:95:GLY:HA3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EH:12:CYS:HA	3:EH:15:GLN:OE1	2.16	0.46
3:EH:182:PRO:HB3	3:EH:381:ILE:HD11	1.97	0.46
4:EI:11:GLN:O	4:EI:14:VAL:HG22	2.15	0.46
4:EK:145:THR:HG23	39:EK:501:GTP:O3B	2.16	0.46
4:EK:196:GLU:OE1	4:EK:196:GLU:N	2.36	0.46
3:EL:394:PHE:HA	3:EL:397:TRP:HZ3	1.80	0.46
11:F5:185:ASN:HA	11:F5:188:LEU:HD12	1.97	0.46
11:F6:365:LEU:O	11:F6:368:ILE:HG12	2.15	0.46
11:F7:110:ARG:HH22	11:F8:363:LYS:C	2.24	0.46
11:F9:399:ARG:NH2	11:Fa:264:ASP:O	2.44	0.46
4:FC:3:GLU:OE2	4:FC:130:THR:N	2.42	0.46
4:FC:280:LYS:O	4:FC:284:GLU:HB2	2.16	0.46
4:FE:286:LEU:HD11	4:FE:372:GLN:H	1.81	0.46
3:FF:6:HIS:HB3	3:FF:21:TRP:HZ2	1.81	0.46
4:FG:256:GLN:O	4:FG:260:VAL:HG12	2.15	0.46
4:FI:52:PHE:CZ	4:FI:239:THR:HB	2.51	0.46
4:FI:332:ILE:O	4:FI:336:LYS:HG3	2.16	0.46
4:FI:396:ASP:OD1	4:FI:397:LEU:N	2.49	0.46
3:FL:48:ASN:HA	3:FL:51:TYR:O	2.16	0.46
3:FL:109:GLY:O	3:FL:113:VAL:HG13	2.16	0.46
3:FL:152:ILE:O	3:FL:156:ARG:HG2	2.16	0.46
3:FL:249:ASP:O	3:FL:253:LEU:HG	2.15	0.46
3:FL:299:MET:HE1	3:FL:305:PRO:HD2	1.97	0.46
3:FL:311:LEU:HD23	3:FL:342:VAL:HG11	1.97	0.46
11:Fl:166:GLU:O	11:Fl:170:MET:HG2	2.16	0.46
13:G2:43:PRO:HG3	3:LH:77:ARG:CZ	2.46	0.46
13:G2:359:PHE:HD2	13:G2:361:MET:HB2	1.79	0.46
13:G2:523:TYR:HD2	13:G2:528:LEU:HD23	1.79	0.46
13:G3:210:ASP:O	13:G3:213:THR:OG1	2.34	0.46
13:G3:438:PHE:CD1	13:G3:453:GLU:HB2	2.50	0.46
14:G4:194:ASP:HB3	14:G4:197:MET:HB2	1.98	0.46
14:G4:198:LYS:HA	14:G4:201:ARG:NE	2.31	0.46
14:G4:467:GLU:HB3	14:G4:478:GLY:N	2.31	0.46
14:G4:734:ARG:HE	14:G4:734:ARG:HA	1.79	0.46
14:G6:620:ILE:HG13	14:G6:621:ALA:N	2.30	0.46
4:GA:11:GLN:HB2	4:GA:74:VAL:HG11	1.97	0.46
4:GA:186:ASN:HA	4:GA:189:LEU:HB2	1.98	0.46
4:GC:397:LEU:C	4:GC:401:LYS:HE2	2.41	0.46
4:GE:438:ASP:C	3:GF:391:ARG:HH12	2.24	0.46
4:GG:140:SER:HB2	4:GG:171:ILE:HG22	1.98	0.46
4:GG:178:SER:OG	4:GG:180:ALA:O	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GH:12:CYS:SG	39:GH:501:GTP:H5'	2.56	0.46
3:GJ:117:LEU:HA	3:GJ:120:VAL:HG22	1.97	0.46
3:GL:49:VAL:HG21	3:GL:241:ARG:HG2	1.98	0.46
3:GL:272:PRO:HA	3:GL:292:GLN:OE1	2.15	0.46
15:H5:9:LEU:HG	15:H5:10:PHE:H	1.80	0.46
15:H5:216:LYS:HE2	15:H5:219:SER:H	1.81	0.46
4:HA:148:GLY:O	4:HA:151:SER:OG	2.32	0.46
4:HA:196:GLU:HG2	4:HA:197:HIS:ND1	2.30	0.46
3:HB:415:MET:O	3:HB:419:VAL:HG23	2.14	0.46
4:HE:50:ASN:O	4:HE:64:ARG:NH1	2.48	0.46
4:HE:405:VAL:O	4:HE:409:VAL:HG22	2.16	0.46
3:HF:39:ASP:N	3:HF:39:ASP:OD1	2.48	0.46
3:HF:259:PRO:HA	4:HG:404:PHE:CE1	2.51	0.46
4:HG:91:GLN:HG3	4:HG:121:ARG:HH21	1.79	0.46
3:HH:218:THR:OG1	3:HH:219:THR:N	2.46	0.46
4:HI:331:ALA:O	4:HI:334:THR:OG1	2.30	0.46
3:HJ:39:ASP:OD1	3:HJ:39:ASP:N	2.49	0.46
3:HL:285:THR:O	3:HL:289:LEU:HD13	2.16	0.46
4:IA:269:LEU:N	4:IA:379:SER:O	2.34	0.46
4:IC:262:TYR:CE1	3:ID:393:ALA:HA	2.51	0.46
3:ID:40:SER:HB2	3:ID:43:GLN:HG2	1.98	0.46
3:ID:46:ARG:HH12	4:IE:73:THR:HG23	1.80	0.46
3:ID:52:ASN:OD1	3:ID:53:GLU:N	2.39	0.46
4:IE:16:ILE:HG13	4:IE:17:GLY:N	2.30	0.46
4:IE:160:ASP:OD1	4:IE:161:TYR:N	2.48	0.46
4:IE:368:LEU:HD23	4:IE:368:LEU:H	1.80	0.46
3:IF:70:PRO:HA	3:IF:73:MET:HE3	1.97	0.46
4:IG:115:VAL:HA	4:IG:118:VAL:HG22	1.98	0.46
3:IH:148:GLY:O	3:IH:152:ILE:HG12	2.16	0.46
3:IH:249:ASP:OD2	3:IH:251:ARG:HB2	2.15	0.46
3:IJ:28:HIS:CD2	3:IJ:43:GLN:HB2	2.51	0.46
3:IJ:113:VAL:HB	3:IJ:154:LYS:HE3	1.97	0.46
3:IJ:299:MET:HE2	3:IJ:303:CYS:C	2.40	0.46
4:IK:30:ILE:HG13	4:IK:53:PHE:CE2	2.51	0.46
4:IK:349:THR:HG23	3:IL:179:VAL:HG12	1.98	0.46
3:IL:137:HIS:O	3:IL:168:SER:HA	2.16	0.46
3:IL:173:PRO:HD3	3:IL:203:ASP:OD1	2.16	0.46
19:J2:167:MET:HG3	19:J2:176:PRO:HA	1.98	0.46
4:JG:75:VAL:HG22	4:JG:79:ARG:HH21	1.80	0.46
4:JG:107:HIS:CD2	4:JG:152:LEU:HB2	2.50	0.46
3:JJ:114:ASP:OD1	3:JJ:114:ASP:N	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JJ:272:PRO:HA	3:JJ:292:GLN:OE1	2.16	0.46
21:K1:392:LYS:HZ3	21:K1:393:LEU:HG	1.80	0.46
21:K2:377:ILE:C	21:K3:115:ARG:HH21	2.23	0.46
21:K4:306:GLU:O	21:K4:310:ILE:HG12	2.15	0.46
21:K4:486:PRO:C	21:K4:488:THR:HG22	2.41	0.46
3:KB:2:ARG:HA	3:KB:129:CYS:O	2.15	0.46
3:KD:32:PRO:C	3:KD:83:GLN:HE21	2.24	0.46
4:KE:70:LEU:HA	4:KE:95:GLY:HA3	1.97	0.46
3:KF:304:ASP:O	3:KF:307:HIS:ND1	2.46	0.46
4:KG:229:ARG:NH1	4:KG:233:GLN:HB2	2.31	0.46
4:KI:208:ALA:H	4:KI:304:LYS:HZ1	1.64	0.46
3:KJ:2:ARG:HB3	3:KJ:131:GLN:CD	2.41	0.46
3:KJ:206:ALA:O	3:KJ:210:ILE:HG12	2.15	0.46
4:KK:302:MET:N	4:KK:302:MET:SD	2.89	0.46
4:KK:345:ASP:N	4:KK:345:ASP:OD1	2.49	0.46
3:KL:217:LEU:HD11	3:KL:220:PRO:HB3	1.98	0.46
22:L1:177:GLN:HB3	22:L1:181:LYS:NZ	2.31	0.46
22:L1:188:LEU:HD23	22:L1:250:ILE:HB	1.97	0.46
22:L2:31:PHE:C	22:L2:36:LYS:HD3	2.40	0.46
22:L2:37:ASN:HA	22:L2:40:LYS:HG2	1.97	0.46
22:L2:49:MET:HE1	3:MD:340:TYR:CD2	2.51	0.46
22:L2:124:ILE:HG21	22:L2:133:LYS:HG3	1.96	0.46
22:L2:204:TRP:O	22:L2:234:MET:HE1	2.16	0.46
22:L2:211:PHE:CE2	22:L2:234:MET:HG3	2.50	0.46
22:L3:63:LEU:HD22	3:LH:194:GLU:HB2	1.97	0.46
4:LA:332:ILE:O	4:LA:336:LYS:HG3	2.15	0.46
3:LB:309:ARG:NE	3:LB:426:GLN:HG2	2.30	0.46
3:LD:91:VAL:HG11	3:LD:116:VAL:HG12	1.98	0.46
4:LE:272:TYR:CE1	4:LE:374:ALA:HB1	2.50	0.46
3:LF:305:PRO:HB2	3:LF:310:TYR:HE1	1.80	0.46
3:LH:5:VAL:HG22	3:LH:62:ARG:HB3	1.96	0.46
3:LH:6:HIS:HB2	3:LH:134:GLN:NE2	2.30	0.46
3:LH:330:MET:HG3	3:LH:349:VAL:HG11	1.97	0.46
3:LL:269:GLY:O	3:LL:367:PHE:N	2.46	0.46
24:M3:55:ARG:HD2	24:M3:55:ARG:HA	1.73	0.46
3:MB:3:GLU:OE2	3:MB:127:CYS:HB2	2.16	0.46
3:MB:46:ARG:NH2	4:MC:73:THR:HG23	2.31	0.46
3:MB:150:LEU:O	3:MB:153:SER:OG	2.25	0.46
3:MB:189:VAL:HA	3:MB:192:LEU:HB2	1.97	0.46
3:MB:212:PHE:HA	32:S:428:VAL:HG11	1.96	0.46
3:MB:318:ARG:CZ	3:MB:358:PRO:HG3	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MC:36:MET:HG3	4:MC:41:THR:OG1	2.15	0.46
3:MD:247:ASN:HB3	3:MD:252:LYS:HG2	1.98	0.46
3:MD:414:ASN:O	3:MD:417:ASP:HB3	2.15	0.46
3:MF:376:GLU:H	3:MF:376:GLU:CD	2.23	0.46
3:MH:390:ARG:HH22	28:O2:40:GLN:HG3	1.81	0.46
3:MJ:213:ARG:HE	3:MJ:297:LYS:HZ1	1.64	0.46
4:MK:161:TYR:HB3	4:MK:164:LYS:HZ3	1.81	0.46
4:MK:186:ASN:HA	4:MK:189:LEU:HD12	1.97	0.46
3:ML:183:TYR:CZ	3:ML:388:MET:HG3	2.51	0.46
4:MM:35:GLN:HG2	4:MM:59:GLY:O	2.15	0.46
26:N4:66:ILE:HG23	26:N4:71:LEU:HB3	1.98	0.46
4:NA:187:SER:O	4:NA:190:THR:OG1	2.27	0.46
3:NB:268:PRO:HD2	3:NB:301:ALA:HB2	1.97	0.46
3:NB:309:ARG:N	3:NB:372:THR:OG1	2.41	0.46
4:NC:424:ASP:O	4:NC:428:LEU:HG	2.15	0.46
3:NH:58:LYS:HE2	3:OH:281:TYR:CE1	2.51	0.46
3:NH:282:ARG:NH2	3:NH:292:GLN:OE1	2.37	0.46
3:NJ:295:ASP:HB2	3:NJ:298:ASN:HB2	1.98	0.46
4:NK:176:GLN:NE2	4:NK:207:GLU:OE2	2.49	0.46
4:NK:424:ASP:O	4:NK:428:LEU:HD23	2.16	0.46
4:OA:165:SER:C	4:OA:166:LYS:HD2	2.41	0.46
3:OB:3:GLU:OE2	3:OB:128:ASP:N	2.46	0.46
3:OB:199:THR:O	3:OB:266:PHE:N	2.45	0.46
4:OC:316:CYS:N	4:OC:378:LEU:O	2.34	0.46
4:OC:405:VAL:O	4:OC:409:VAL:HG22	2.15	0.46
3:OF:282:ARG:HE	3:OF:288:GLU:CD	2.24	0.46
4:OI:1:MET:SD	4:OI:2:ARG:N	2.87	0.46
4:OI:333:ALA:HA	4:OI:336:LYS:HD2	1.98	0.46
3:OJ:12:CYS:SG	3:OJ:13:GLY:N	2.88	0.46
3:OJ:378:PHE:HB2	3:OJ:415:MET:SD	2.55	0.46
4:OK:90:GLU:HG2	4:OK:121:ARG:NH2	2.31	0.46
27:P:310:ASP:O	27:P:314:ILE:HG12	2.16	0.46
29:P1:552:ASP:HB3	29:P1:595:ILE:HG13	1.98	0.46
29:P2:254:SER:OG	29:P2:293:ILE:O	2.21	0.46
4:PA:346:TRP:CH2	4:PA:435:VAL:HA	2.51	0.46
3:PB:99:ASN:HA	3:PB:142:GLY:HA3	1.98	0.46
3:PB:324:LYS:HE2	4:PC:222:PRO:HG2	1.97	0.46
4:PC:90:GLU:HG2	4:PC:121:ARG:NH2	2.31	0.46
4:PC:272:TYR:CZ	4:PC:274:PRO:HG2	2.50	0.46
4:PC:352:LYS:NZ	3:PD:178:THR:HA	2.31	0.46
4:PE:172:TYR:CD1	4:PE:203:MET:HG2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:PE:274:PRO:HG3	4:PE:374:ALA:HA	1.97	0.46
4:PE:393:HIS:HA	4:PE:396:ASP:CG	2.41	0.46
4:PG:254:GLU:OE1	4:PG:254:GLU:N	2.44	0.46
3:PJ:19:LYS:NZ	3:PJ:223:GLY:O	2.47	0.46
3:PJ:81:PHE:O	3:PJ:84:ILE:HG22	2.15	0.46
3:PJ:106:TYR:HB2	3:PJ:401:GLU:OE2	2.16	0.46
3:PJ:404:ASP:N	3:PJ:404:ASP:OD1	2.47	0.46
3:PL:31:ASP:OD2	3:PL:35:THR:OG1	2.32	0.46
27:Q:160:ARG:HH21	32:S:383:SER:HA	1.81	0.46
3:QB:118:ASP:OD1	3:QB:121:ARG:NH1	2.49	0.46
3:QB:172:SER:OG	3:QB:205:GLU:OE2	2.20	0.46
4:QE:115:VAL:HA	4:QE:118:VAL:HG22	1.97	0.46
4:QG:196:GLU:OE1	4:QG:196:GLU:N	2.45	0.46
4:QG:318:LEU:O	4:QG:375:VAL:HA	2.16	0.46
4:QI:122:ILE:O	4:QI:126:ALA:N	2.42	0.46
4:QI:125:LEU:HD13	4:QI:128:LEU:HD21	1.97	0.46
4:QI:165:SER:C	4:QI:166:LYS:HD2	2.40	0.46
4:QK:405:VAL:O	4:QK:409:VAL:HG22	2.16	0.46
3:QL:152:ILE:O	3:QL:156:ARG:HG2	2.16	0.46
3:QL:173:PRO:HD3	3:QL:203:ASP:OD1	2.15	0.46
3:QL:211:CYS:HA	3:QL:215:LEU:HD12	1.98	0.46
3:RB:246:LEU:HB3	3:RB:353:VAL:O	2.15	0.46
3:RD:350:LYS:HE3	4:RE:181:VAL:H	1.80	0.46
3:RF:235:GLY:O	3:RF:238:THR:OG1	2.25	0.46
3:RH:211:CYS:O	3:RH:216:LYS:N	2.46	0.46
4:RI:119:LEU:HD23	4:RI:122:ILE:HD12	1.98	0.46
3:RJ:101:TRP:HB2	3:RJ:184:ASN:HD22	1.80	0.46
3:RL:372:THR:HB	3:RL:375:GLN:NE2	2.31	0.46
3:SB:65:LEU:HD21	3:SB:73:MET:HG2	1.98	0.46
3:SB:214:THR:HG21	3:SB:273:LEU:HB3	1.98	0.46
4:SC:46:ASP:HA	4:SC:50:ASN:HB3	1.97	0.46
4:SC:329:ASN:HA	4:SC:332:ILE:HG12	1.98	0.46
4:SE:99:ALA:HB3	4:SE:144:GLY:O	2.16	0.46
3:SF:51:TYR:CD1	3:SF:61:PRO:HA	2.51	0.46
3:SF:156:ARG:NH1	3:SF:195:ASN:O	2.48	0.46
4:SG:1:MET:HE3	4:SG:50:ASN:ND2	2.31	0.46
4:SG:390:ARG:HA	4:SG:393:HIS:CD2	2.51	0.46
4:SI:262:TYR:HE1	3:SJ:393:ALA:HA	1.81	0.46
3:SJ:398:TYR:HB3	3:SJ:403:MET:HB2	1.97	0.46
3:SL:4:ILE:HB	3:SL:50:TYR:CE1	2.50	0.46
3:SL:404:ASP:OD1	3:SL:404:ASP:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TB:7:LEU:HB2	3:TB:135:LEU:HG	1.98	0.46
3:TB:223:GLY:O	3:TB:227:HIS:N	2.46	0.46
3:TB:375:GLN:HA	3:TB:378:PHE:CE1	2.51	0.46
4:TC:187:SER:O	4:TC:190:THR:OG1	2.31	0.46
3:TD:11:GLN:HG3	39:TD:501:GTP:PA	2.56	0.46
3:TD:271:ALA:HB3	3:TD:365:ALA:H	1.80	0.46
3:TH:211:CYS:HA	3:TH:215:LEU:HD13	1.98	0.46
4:TI:89:PRO:HD2	4:UG:280:LYS:NZ	2.30	0.46
3:TJ:394:PHE:HA	3:TJ:397:TRP:HZ3	1.81	0.46
3:TL:191:GLN:O	3:TL:195:ASN:ND2	2.49	0.46
3:TN:318:ARG:HD3	3:TN:358:PRO:HG3	1.98	0.46
4:UA:306:ASP:OD2	4:UA:309:HIS:ND1	2.49	0.46
4:UE:67:PHE:O	4:UE:93:ILE:N	2.48	0.46
3:UF:81:PHE:O	3:UF:84:ILE:HG22	2.16	0.46
4:UG:419:SER:HA	4:UG:422:ARG:HH21	1.80	0.46
4:UI:245:ASP:O	4:UI:356:ASN:ND2	2.48	0.46
3:UJ:318:ARG:C	3:UJ:321:MET:HE1	2.40	0.46
4:UK:185:TYR:OH	4:UK:403:ALA:O	2.21	0.46
3:UL:262:ARG:NH1	3:UL:425:TYR:OH	2.49	0.46
4:VA:3:GLU:OE2	4:VA:130:THR:N	2.37	0.46
4:VA:161:TYR:HB3	4:VA:164:LYS:HZ3	1.81	0.46
4:VE:225:THR:O	4:VE:229:ARG:HB2	2.16	0.46
3:VF:11:GLN:HE21	39:VF:501:GTP:H3'	1.80	0.46
3:VF:61:PRO:HD3	3:VF:84:ILE:HG13	1.98	0.46
3:VF:247:ASN:CB	3:VF:252:LYS:HG2	2.45	0.46
3:VH:295:ASP:HB2	3:VH:298:ASN:HB2	1.97	0.46
4:VI:50:ASN:OD1	4:VI:51:THR:N	2.49	0.46
3:VJ:404:ASP:OD1	3:VJ:404:ASP:N	2.49	0.46
4:VK:88:HIS:CE1	4:VK:121:ARG:HH22	2.33	0.46
3:VL:152:ILE:O	3:VL:156:ARG:HG2	2.16	0.46
3:VL:309:ARG:O	3:VL:371:SER:OG	2.23	0.46
4:WA:35:GLN:HG2	4:WA:59:GLY:O	2.15	0.46
4:WA:405:VAL:O	4:WA:409:VAL:HG22	2.15	0.46
4:WE:280:LYS:HZ2	4:WE:283:HIS:CE1	2.33	0.46
4:WE:329:ASN:OD1	4:WE:330:ALA:N	2.49	0.46
3:WH:118:ASP:HA	3:WH:121:ARG:HG2	1.98	0.46
4:WI:263:PRO:HB2	4:WI:264:ARG:NH1	2.30	0.46
3:WJ:357:PRO:HB3	3:WJ:362:LYS:HA	1.98	0.46
3:WL:12:CYS:SG	3:WL:13:GLY:N	2.88	0.46
3:WL:176:SER:O	3:WL:178:THR:N	2.48	0.46
33:X:453:GLN:O	33:X:457:ILE:HG12	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:XB:12:SER:HA	34:XB:166:TYR:HA	1.98	0.46
34:XD:34:ILE:O	34:XD:34:ILE:HG13	2.15	0.46
34:XE:77:VAL:O	34:XE:78:MET:HE2	2.15	0.46
34:XF:78:MET:N	34:XF:132:ILE:HB	2.29	0.46
35:XH:57:ARG:O	35:XH:61:GLU:HG3	2.16	0.46
35:XH:188:ASN:ND2	35:XH:206:GLY:H	2.14	0.46
35:XI:66:PRO:HG2	35:XI:82:VAL:HB	1.97	0.46
35:XK:155:VAL:O	35:XK:159:LEU:HG	2.16	0.46
37:YB:11:ILE:O	37:YB:14:LYS:HB3	2.15	0.46
37:YB:136:GLY:O	37:YB:140:LEU:N	2.43	0.46
37:YE:90:THR:N	37:YE:93:THR:OG1	2.49	0.46
37:YH:72:ILE:HA	37:YH:75:GLU:CD	2.40	0.46
37:YH:103:LEU:HD22	37:YH:110:LEU:HD11	1.97	0.46
37:YP:42:PRO:HA	37:YP:133:HIS:HB3	1.96	0.46
37:YU:159:PRO:HB2	37:YU:161:LYS:HG2	1.98	0.46
38:a:49:LEU:HD23	38:a:52:LYS:NZ	2.31	0.46
2:A1:95:LYS:HD2	2:A1:154:LEU:HG	1.97	0.46
2:A2:43:ARG:NH2	5:B4:44:ILE:HG12	2.30	0.46
2:A2:353:GLU:CD	2:A2:357:GLN:HE22	2.24	0.46
2:A2:374:GLU:O	2:A2:378:VAL:HG23	2.16	0.46
2:A3:63:LEU:HB3	2:A3:189:PHE:HD1	1.80	0.46
3:AF:233:MET:HE3	3:AF:233:MET:O	2.15	0.46
3:AH:39:ASP:OD1	3:AH:43:GLN:NE2	2.49	0.46
3:AH:117:LEU:O	3:AH:121:ARG:HG2	2.16	0.46
4:AI:105:ARG:HG2	4:AI:109:THR:HG21	1.98	0.46
1:B:313:ARG:O	1:B:317:GLU:HG2	2.16	0.46
1:B:398:ARG:O	1:B:402:LEU:HG	2.16	0.46
5:B3:141:VAL:O	5:B3:145:GLU:HG2	2.15	0.46
5:B3:187:ARG:HH11	10:E2:153:ARG:HH12	1.61	0.46
5:B3:396:LYS:HZ1	10:E2:62:VAL:H	1.63	0.46
5:B6:44:ILE:HG22	19:J3:97:ARG:HH12	1.81	0.46
5:B7:233:MET:O	5:B7:237:ILE:HG13	2.15	0.46
5:B7:293:LEU:O	5:B7:297:ILE:HG12	2.16	0.46
5:B8:164:LEU:O	5:B8:167:GLU:HG3	2.16	0.46
5:B8:203:VAL:O	5:B8:207:ARG:NH2	2.49	0.46
4:BC:116:ASP:HA	4:BC:119:LEU:HD12	1.98	0.46
4:BC:141:PHE:HE2	4:BC:203:MET:HG3	1.80	0.46
4:BC:196:GLU:HG2	4:BC:197:HIS:ND1	2.30	0.46
3:BF:12:CYS:HA	39:BF:501:GTP:HN22	1.81	0.46
3:BF:150:LEU:C	3:BF:154:LYS:HZ3	2.23	0.46
4:BG:186:ASN:OD1	4:BG:187:SER:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BH:317:PHE:HE2	3:BH:326:VAL:HG23	1.81	0.46
3:BH:324:LYS:HE2	4:BI:222:PRO:CD	2.46	0.46
4:BK:107:HIS:CD2	4:BK:152:LEU:HB2	2.51	0.46
4:BK:316:CYS:N	4:BK:378:LEU:O	2.46	0.46
3:BL:251:ARG:HH11	4:BM:100:ALA:HB3	1.81	0.46
6:C:141:LYS:HB2	6:C:181:GLU:HB3	1.98	0.46
7:C2:282:SER:C	7:C3:394:LYS:HE3	2.41	0.46
7:C2:438:LEU:O	7:C2:442:GLU:HG3	2.16	0.46
7:C3:118:GLU:HG2	7:C3:121:ARG:NH2	2.30	0.46
7:C3:197:GLU:HA	7:C3:200:PHE:CD2	2.50	0.46
7:C3:299:THR:HA	7:C3:302:LYS:HG2	1.97	0.46
7:C3:334:ASN:HD22	10:E2:183:PHE:H	1.63	0.46
7:C7:310:ARG:HG3	10:E2:50:LYS:HZ1	1.80	0.46
3:CB:36:TYR:HE2	3:CB:44:LEU:HD12	1.81	0.46
3:CB:314:ALA:HB3	3:CB:368:ILE:HG23	1.97	0.46
3:CD:52:ASN:O	3:CD:60:VAL:N	2.49	0.46
3:CD:131:GLN:HG2	3:CD:251:ARG:HH12	1.81	0.46
3:CF:11:GLN:HG3	39:CF:501:GTP:PA	2.56	0.46
4:CG:76:ASP:O	4:CG:80:THR:N	2.47	0.46
4:CG:263:PRO:HB2	4:CG:264:ARG:NH1	2.30	0.46
3:CH:253:LEU:O	3:CH:257:MET:HB2	2.16	0.46
4:CI:46:ASP:HA	4:CI:50:ASN:HB3	1.97	0.46
3:CL:19:LYS:NZ	3:CL:223:GLY:O	2.45	0.46
3:CL:285:THR:O	3:CL:288:GLU:HG3	2.15	0.46
3:CL:403:MET:HE2	3:CL:403:MET:N	2.31	0.46
4:CM:3:GLU:N	4:CM:133:GLN:OE1	2.49	0.46
4:CM:84:ARG:CZ	15:H6:215:ARG:HE	2.29	0.46
7:Ca:232:ARG:NH2	7:Ca:235:GLN:OE1	2.49	0.46
7:Cb:300:TRP:HA	7:Cb:303:PHE:CD2	2.51	0.46
6:D:76:LEU:HA	6:D:79:LEU:HD12	1.98	0.46
6:D:116:LEU:HD21	6:D:225:HIS:N	2.31	0.46
8:D3:267:ARG:HA	8:D3:270:ARG:HH21	1.80	0.46
8:D3:336:ILE:C	8:D3:340:LYS:HZ3	2.24	0.46
8:D7:294:ARG:NH2	8:D7:298:ASP:OD2	2.49	0.46
8:D7:346:LYS:O	8:D7:349:PRO:HD2	2.16	0.46
8:D8:72:ASP:O	8:D8:75:GLU:HG3	2.16	0.46
8:D8:119:ARG:NH2	8:D8:120:GLU:HB2	2.31	0.46
8:D9:267:ARG:HA	8:D9:270:ARG:NE	2.27	0.46
4:DA:165:SER:C	4:DA:166:LYS:HD2	2.41	0.46
3:DB:313:VAL:HG23	3:DB:349:VAL:HA	1.98	0.46
4:DC:34:GLY:HA2	4:DC:86:LEU:HD11	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DD:132:GLY:HA2	3:DD:162:ARG:HB3	1.98	0.46
4:DE:10:GLY:O	4:DE:14:VAL:HG13	2.16	0.46
3:DF:292:GLN:HA	3:DF:295:ASP:OD2	2.15	0.46
3:DF:350:LYS:HE3	4:DG:180:ALA:HA	1.98	0.46
4:DG:165:SER:C	4:DG:166:LYS:HD2	2.41	0.46
4:DI:287:SER:OG	4:DI:290:GLU:OE1	2.28	0.46
3:DJ:8:GLN:NE2	3:DJ:17:GLY:HA3	2.30	0.46
4:DK:316:CYS:N	4:DK:378:LEU:O	2.48	0.46
9:E:784:PHE:HB2	9:E:786:ARG:HH22	1.80	0.46
10:E3:165:ASP:HB3	10:E3:175:ARG:HH12	1.81	0.46
3:EB:28:HIS:ND1	3:EB:43:GLN:HB2	2.31	0.46
3:EB:139:LEU:N	3:EB:168:SER:OG	2.49	0.46
3:EB:392:LYS:HD2	3:EB:392:LYS:O	2.15	0.46
3:ED:19:LYS:NZ	3:ED:227:HIS:HB2	2.31	0.46
3:ED:206:ALA:O	3:ED:210:ILE:HG12	2.16	0.46
3:ED:363:MET:HA	3:ED:363:MET:HE2	1.98	0.46
3:EF:12:CYS:O	3:EF:15:GLN:HB3	2.16	0.46
4:EG:34:GLY:HA2	4:EG:86:LEU:HD11	1.97	0.46
4:EI:16:ILE:HG22	4:EI:228:ASN:OD1	2.16	0.46
4:EI:175:PRO:O	4:EI:390:ARG:HD3	2.16	0.46
4:EI:219:ILE:HD12	15:H5:299:THR:HG22	1.97	0.46
3:EJ:39:ASP:N	3:EJ:39:ASP:OD1	2.49	0.46
4:EK:105:ARG:HG2	4:EK:109:THR:HG21	1.97	0.46
4:EK:263:PRO:HB2	4:EK:264:ARG:NH1	2.30	0.46
3:EL:39:ASP:N	3:EL:39:ASP:OD1	2.49	0.46
3:EL:77:ARG:HG3	13:G3:465:LYS:NZ	2.29	0.46
3:EL:285:THR:O	3:EL:288:GLU:HG3	2.16	0.46
9:F:366:GLN:HA	9:F:369:ILE:HD12	1.98	0.46
11:F1:416:LEU:HA	11:F1:419:GLU:HG3	1.98	0.46
11:F4:151:PHE:O	11:F4:155:GLU:HG2	2.16	0.46
11:F5:107:GLU:O	11:F5:111:LEU:HG	2.16	0.46
11:F7:296:TRP:CH2	11:F8:409:ARG:HG2	2.51	0.46
4:FA:165:SER:C	4:FA:166:LYS:HD2	2.41	0.46
4:FA:269:LEU:N	4:FA:379:SER:O	2.32	0.46
3:FD:113:VAL:HA	3:FD:116:VAL:HG22	1.97	0.46
3:FD:378:PHE:HA	3:FD:381:ILE:HG12	1.98	0.46
4:FE:272:TYR:CE1	4:FE:374:ALA:HB1	2.51	0.46
4:FE:329:ASN:HA	4:FE:332:ILE:HG12	1.98	0.46
4:FG:22:GLU:HG2	4:FG:83:TYR:CE2	2.51	0.46
4:FG:135:PHE:CE2	4:FG:164:LYS:HD2	2.51	0.46
4:FG:317:MET:HE1	4:FG:351:PHE:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FH:246:LEU:HB3	3:FH:353:VAL:O	2.15	0.46
3:FH:249:ASP:O	3:FH:253:LEU:HG	2.15	0.46
3:FH:318:ARG:HD3	3:FH:358:PRO:HG3	1.98	0.46
4:FI:145:THR:HG23	39:FI:501:GTP:O3B	2.16	0.46
3:FJ:222:TYR:HA	3:FJ:225:LEU:HD13	1.96	0.46
3:FJ:390:ARG:O	3:FJ:390:ARG:NE	2.44	0.46
4:FK:10:GLY:O	4:FK:13:GLY:N	2.47	0.46
4:FK:174:ALA:O	4:FK:390:ARG:NH2	2.47	0.46
4:FK:320:ARG:HD3	4:FK:360:PRO:HG3	1.98	0.46
3:FL:132:GLY:HA3	3:FL:163:ILE:H	1.79	0.46
3:FL:357:PRO:HB3	3:FL:362:LYS:HA	1.97	0.46
11:Fj:226:GLN:HB3	11:Fj:230:ARG:HH12	1.81	0.46
11:Fk:238:PHE:HA	11:Fk:241:ARG:HE	1.81	0.46
11:Fl:251:GLU:O	11:Fl:254:ILE:HG22	2.15	0.46
11:Fl:425:ASP:OD1	11:Fl:428:GLN:NE2	2.49	0.46
12:G:152:LYS:HB3	12:G:152:LYS:HE2	1.77	0.46
14:G4:596:ASP:O	14:G4:600:ILE:HG12	2.16	0.46
14:G5:575:LYS:HA	14:G5:734:ARG:HH11	1.81	0.46
14:G6:30:ASN:ND2	14:G6:32:VAL:HG22	2.25	0.46
14:G6:36:VAL:HB	14:G6:40:LYS:HZ1	1.81	0.46
14:G6:292:ILE:HG13	14:G6:295:PRO:HD3	1.98	0.46
14:G6:460:ASP:HB2	14:G6:483:ARG:HH12	1.80	0.46
4:GC:216:ASN:ND2	4:GC:275:VAL:O	2.49	0.46
4:GC:390:ARG:HA	4:GC:393:HIS:CD2	2.51	0.46
3:GD:51:TYR:CD1	3:GD:61:PRO:HA	2.50	0.46
4:GE:208:ALA:H	4:GE:304:LYS:NZ	2.10	0.46
4:GE:320:ARG:HG2	4:GE:358:GLN:O	2.15	0.46
4:GE:392:ASP:OD1	4:GE:393:HIS:N	2.49	0.46
3:GF:324:LYS:HE2	4:GG:222:PRO:HG2	1.98	0.46
4:GG:125:LEU:HD13	4:GG:128:LEU:HD21	1.98	0.46
4:GG:205:ASP:OD2	4:GG:304:LYS:NZ	2.41	0.46
4:GG:235:VAL:HA	4:GG:238:ILE:HG12	1.97	0.46
4:GG:363:VAL:HG13	4:GG:366:GLY:HA3	1.98	0.46
4:GI:137:ILE:O	4:GI:169:PHE:N	2.45	0.46
4:GI:254:GLU:OE1	4:GI:254:GLU:N	2.45	0.46
4:GK:47:ASP:HB3	4:GK:49:PHE:CE2	2.51	0.46
4:GK:196:GLU:HG2	4:GK:197:HIS:ND1	2.31	0.46
4:GK:265:ILE:HD12	4:GK:432:TYR:CE1	2.51	0.46
3:GL:378:PHE:CD1	3:GL:419:VAL:HG22	2.50	0.46
15:H2:237:ARG:O	15:H2:241:THR:HG23	2.15	0.46
15:H3:13:GLU:CG	15:H3:14:PRO:HA	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H4:291:SER:HB3	15:H4:315:ARG:HH11	1.81	0.46
4:HE:88:HIS:HB3	4:HE:91:GLN:HG2	1.96	0.46
4:HE:166:LYS:N	4:HE:199:ASP:OD2	2.49	0.46
4:HE:316:CYS:HB3	4:HE:378:LEU:HB2	1.98	0.46
3:HF:330:MET:HE1	4:HG:177:VAL:HG22	1.97	0.46
4:HI:138:PHE:CD1	4:HI:169:PHE:HB2	2.51	0.46
4:HK:420:GLU:HA	4:HK:423:GLU:OE2	2.16	0.46
3:HL:19:LYS:NZ	3:HL:223:GLY:O	2.49	0.46
16:I:204:GLU:HG2	16:I:204:GLU:O	2.15	0.46
17:I1:55:THR:O	17:I1:59:LYS:HG3	2.16	0.46
3:IF:81:PHE:O	3:IF:84:ILE:HG22	2.14	0.46
4:IG:226:ASN:HA	4:IG:229:ARG:HE	1.79	0.46
4:IG:230:LEU:O	4:IG:234:ILE:HG12	2.15	0.46
4:IG:260:VAL:O	3:IH:397:TRP:HH2	1.99	0.46
3:IH:152:ILE:HA	3:IH:155:ILE:HG12	1.98	0.46
4:II:196:GLU:HG2	4:II:197:HIS:ND1	2.30	0.46
4:IK:154:MET:HE1	4:IK:197:HIS:HB2	1.97	0.46
4:IK:203:MET:SD	4:IK:203:MET:N	2.89	0.46
4:JE:109:THR:O	4:JE:112:LYS:NZ	2.49	0.46
4:JE:208:ALA:H	4:JE:304:LYS:NZ	2.10	0.46
4:JE:234:ILE:O	4:JE:237:SER:OG	2.33	0.46
3:JF:309:ARG:N	3:JF:372:THR:OG1	2.33	0.46
4:JG:70:LEU:HA	4:JG:95:GLY:HA3	1.97	0.46
3:JH:3:GLU:OE2	3:JH:127:CYS:HB2	2.15	0.46
3:JH:113:VAL:HA	3:JH:116:VAL:HG22	1.97	0.46
3:JJ:268:PRO:HD2	3:JJ:301:ALA:HB2	1.97	0.46
4:JK:9:VAL:HA	4:JK:68:VAL:HG23	1.97	0.46
4:JK:145:THR:OG1	39:JK:501:GTP:O1B	2.32	0.46
4:JK:279:GLU:HA	4:JK:282:TYR:CD2	2.51	0.46
4:JK:283:HIS:ND1	4:JK:284:GLU:OE1	2.49	0.46
21:K1:375:ARG:HA	21:K1:378:ILE:HG22	1.98	0.46
21:K4:481:VAL:HA	21:K4:484:TRP:NE1	2.31	0.46
21:K4:489:PRO:C	21:K4:491:ARG:H	2.23	0.46
4:KA:196:GLU:OE1	4:KA:196:GLU:N	2.41	0.46
4:KA:262:TYR:CG	4:KA:263:PRO:HD2	2.50	0.46
4:KA:345:ASP:N	4:KA:345:ASP:OD1	2.47	0.46
4:KA:425:LEU:O	4:KA:428:LEU:N	2.49	0.46
3:KB:234:SER:O	3:KB:238:THR:HG23	2.16	0.46
4:KG:105:ARG:HG2	4:KG:109:THR:HG21	1.98	0.46
4:KG:192:HIS:CE1	4:KG:193:THR:HG23	2.51	0.46
3:KH:113:VAL:HA	3:KH:116:VAL:HG22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KH:152:ILE:HD12	3:KH:195:ASN:HB2	1.98	0.46
4:KK:296:PHE:CE2	4:KK:335:ILE:HG21	2.50	0.46
3:KL:123:GLU:O	3:KL:126:SER:OG	2.27	0.46
3:KL:282:ARG:HE	3:KL:288:GLU:CD	2.24	0.46
22:L2:200:LEU:HD11	22:L2:237:LEU:HD22	1.98	0.46
22:L3:193:ARG:NH1	22:L3:249:ILE:HG23	2.30	0.46
4:LA:36:MET:HG3	4:LA:41:THR:OG1	2.16	0.46
4:LA:288:VAL:HG11	4:LA:327:ASP:HB2	1.97	0.46
3:LB:11:GLN:O	3:LB:14:ASN:HB2	2.16	0.46
4:LE:339:ARG:N	4:LE:339:ARG:HD3	2.31	0.46
4:LG:375:VAL:HG13	4:LG:377:MET:SD	2.56	0.46
3:LH:87:PRO:HA	3:LH:90:PHE:CD2	2.51	0.46
4:LI:163:LYS:HA	4:LI:163:LYS:HD3	1.71	0.46
3:LJ:46:ARG:HH12	4:LK:73:THR:HG23	1.81	0.46
3:LJ:166:THR:OG1	3:LJ:198:GLU:O	2.28	0.46
4:LK:104:ALA:O	4:LK:108:TYR:N	2.46	0.46
3:LL:47:ILE:HG21	3:LL:59:TYR:CE1	2.51	0.46
3:LL:118:ASP:HA	3:LL:121:ARG:HD3	1.97	0.46
3:MB:51:TYR:CD1	3:MB:61:PRO:HA	2.51	0.46
4:MC:116:ASP:N	4:MC:116:ASP:OD1	2.46	0.46
3:MD:151:LEU:HD22	3:MD:154:LYS:HZ1	1.80	0.46
3:MF:19:LYS:HZ1	3:MF:227:HIS:HB2	1.79	0.46
3:MF:21:TRP:CZ2	3:MF:63:ALA:HB2	2.51	0.46
3:MJ:189:VAL:HA	3:MJ:192:LEU:HD12	1.97	0.46
4:MK:22:GLU:HG2	4:MK:83:TYR:CE2	2.51	0.46
4:MK:255:PHE:O	4:MK:259:LEU:N	2.48	0.46
3:ML:7:LEU:N	3:ML:134:GLN:O	2.48	0.46
3:ML:192:LEU:O	3:ML:196:THR:HG22	2.16	0.46
3:ML:345:ILE:HD11	4:MM:181:VAL:HG11	1.98	0.46
4:MM:102:ASN:HB3	4:MM:105:ARG:HB2	1.97	0.46
4:MM:115:VAL:HG21	4:MM:156:ARG:HD3	1.98	0.46
4:MM:156:ARG:NH1	26:N4:99:ILE:HG13	2.31	0.46
4:MM:172:TYR:N	4:MM:204:VAL:O	2.40	0.46
4:MM:301:GLN:OE1	4:MM:301:GLN:N	2.48	0.46
4:MM:415:GLU:OE1	4:MM:415:GLU:N	2.47	0.46
26:N2:73:PHE:CE1	26:N2:92:ILE:HG22	2.51	0.46
26:N2:160:LYS:H	26:N2:164:GLY:N	2.14	0.46
3:NB:192:LEU:O	3:NB:196:THR:HG22	2.16	0.46
3:NB:415:MET:O	3:NB:419:VAL:HG23	2.15	0.46
3:ND:293:MET:HE3	3:ND:367:PHE:HB2	1.97	0.46
4:NG:201:ALA:HB1	4:NG:203:MET:HE3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:NG:438:ASP:HA	3:NH:391:ARG:HH12	1.80	0.46
3:NH:131:GLN:HB3	3:NH:163:ILE:HD12	1.98	0.46
3:NH:152:ILE:HG22	3:NH:164:MET:HE2	1.97	0.46
4:NI:224:TYR:HE2	39:NI:501:GTP:C5	2.34	0.46
4:NK:135:PHE:HE2	4:NK:166:LYS:HE3	1.81	0.46
4:NK:165:SER:C	4:NK:166:LYS:HD2	2.41	0.46
28:O1:42:ILE:HG21	28:O1:53:VAL:HG11	1.98	0.46
4:OA:35:GLN:HG2	4:OA:59:GLY:O	2.15	0.46
3:OB:51:TYR:CD1	3:OB:61:PRO:HA	2.51	0.46
3:OD:109:GLY:O	3:OD:113:VAL:HG13	2.16	0.46
4:OE:167:LEU:HB3	4:OE:169:PHE:CE1	2.51	0.46
3:OF:350:LYS:HE3	4:OG:180:ALA:HA	1.98	0.46
3:OJ:132:GLY:HA3	3:OJ:163:ILE:H	1.81	0.46
3:OL:2:ARG:HB3	3:OL:131:GLN:NE2	2.30	0.46
3:OL:113:VAL:HB	3:OL:154:LYS:HE3	1.98	0.46
3:OL:378:PHE:CD1	3:OL:419:VAL:HG22	2.51	0.46
27:P:229:ARG:HG3	27:P:233:GLN:HE22	1.81	0.46
29:P2:398:ILE:HB	29:P2:412:ILE:HB	1.98	0.46
29:P3:553:ILE:HG13	29:P3:560:PHE:HB3	1.97	0.46
4:PA:118:VAL:HA	4:PA:121:ARG:HG2	1.97	0.46
4:PA:125:LEU:HD13	4:PA:128:LEU:HD21	1.98	0.46
4:PA:245:ASP:O	4:PA:356:ASN:ND2	2.48	0.46
4:PA:262:TYR:HE1	3:PB:393:ALA:HA	1.81	0.46
3:PD:375:GLN:HA	3:PD:378:PHE:CE1	2.50	0.46
4:PE:12:ALA:HB2	39:PE:501:GTP:H5"	1.97	0.46
4:PE:36:MET:HG3	4:PE:41:THR:OG1	2.16	0.46
4:PE:98:ASP:O	4:PE:105:ARG:NH2	2.32	0.46
3:PF:143:THR:HG22	3:PF:147:MET:HE2	1.96	0.46
4:PI:70:LEU:HG	4:PI:149:PHE:CZ	2.50	0.46
4:PK:47:ASP:HB3	4:PK:49:PHE:CE2	2.51	0.46
4:PK:188:ILE:HG12	4:PK:421:ALA:HB1	1.98	0.46
3:PL:325:GLU:O	3:PL:328:GLU:HG3	2.16	0.46
4:PM:103:TYR:HB2	4:PM:186:ASN:HB2	1.98	0.46
30:Q3:1338:GLY:O	30:Q3:1342:GLU:HB3	2.16	0.46
30:Q3:1353:ASP:O	30:Q3:1356:GLY:N	2.48	0.46
3:QB:324:LYS:HD3	4:QC:210:TYR:CE1	2.50	0.46
3:QD:276:ARG:HH11	3:QD:276:ARG:HG2	1.81	0.46
3:QD:289:LEU:O	3:QD:293:MET:HG2	2.16	0.46
3:QF:114:ASP:N	3:QF:114:ASP:OD1	2.45	0.46
3:QH:309:ARG:HH22	3:QH:344:TRP:HZ3	1.62	0.46
4:QI:438:ASP:C	3:QJ:391:ARG:HH12	2.24	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QL:12:CYS:SG	3:QL:13:GLY:N	2.89	0.46
27:R:234:GLN:O	27:R:237:GLU:HG2	2.16	0.46
27:R:323:HIS:O	27:R:327:GLN:HG2	2.15	0.46
3:RD:152:ILE:O	3:RD:156:ARG:HG2	2.16	0.46
3:RF:271:ALA:HB2	3:RF:365:ALA:HB3	1.98	0.46
4:RG:174:ALA:HB3	4:RG:177:VAL:O	2.16	0.46
4:RG:386:GLU:HA	4:RG:389:ALA:HB3	1.98	0.46
3:RH:19:LYS:NZ	3:RH:223:GLY:O	2.49	0.46
3:RH:39:ASP:N	3:RH:39:ASP:OD1	2.48	0.46
3:RH:130:LEU:HB2	3:RH:162:ARG:HH11	1.80	0.46
3:RH:282:ARG:HE	3:RH:288:GLU:CD	2.24	0.46
4:RI:257:THR:HA	3:RJ:397:TRP:CZ2	2.51	0.46
3:RJ:2:ARG:HB3	3:RJ:131:GLN:CD	2.41	0.46
3:SB:206:ALA:O	3:SB:210:ILE:HG12	2.16	0.46
3:SB:324:LYS:HE2	4:SC:222:PRO:HG2	1.97	0.46
4:SC:10:GLY:O	4:SC:14:VAL:HG13	2.15	0.46
4:SC:34:GLY:HA3	4:SC:60:LYS:HD2	1.98	0.46
4:SC:113:GLU:OE1	4:SC:113:GLU:N	2.48	0.46
3:SD:6:HIS:HB3	3:SD:21:TRP:HZ2	1.80	0.46
3:SF:4:ILE:HB	3:SF:50:TYR:CE1	2.50	0.46
3:SF:426:GLN:NE2	3:SF:427:ASP:OD2	2.49	0.46
4:SG:21:TRP:HD1	4:SG:53:PHE:HE1	1.64	0.46
3:SH:3:GLU:OE1	3:SH:3:GLU:N	2.48	0.46
3:SJ:137:HIS:O	3:SJ:168:SER:HA	2.16	0.46
3:SJ:347:ASN:HB3	4:SK:178:SER:HB3	1.97	0.46
3:SL:20:PHE:HA	3:SL:230:SER:HB2	1.98	0.46
3:SL:28:HIS:O	3:SL:43:GLN:NE2	2.48	0.46
3:SL:311:LEU:HD23	3:SL:342:VAL:HG11	1.98	0.46
4:SM:76:ASP:OD1	4:SM:79:ARG:NH1	2.48	0.46
4:TC:286:LEU:HD11	4:TC:373:ARG:H	1.81	0.46
4:TC:399:TYR:OH	4:TC:415:GLU:HB2	2.16	0.46
3:TD:217:LEU:O	3:TD:219:THR:N	2.47	0.46
4:TE:332:ILE:O	4:TE:336:LYS:HG3	2.16	0.46
3:TF:386:THR:O	3:TF:390:ARG:N	2.49	0.46
4:TK:203:MET:HE3	4:TK:267:PHE:CD2	2.50	0.46
3:TL:15:GLN:HA	39:TL:501:GTP:N2	2.18	0.46
3:TL:15:GLN:O	3:TL:15:GLN:HG3	2.07	0.46
4:TM:81:GLY:O	4:TM:84:ARG:NH1	2.49	0.46
4:TM:208:ALA:H	4:TM:304:LYS:NZ	2.13	0.46
4:TM:264:ARG:O	4:TM:266:HIS:ND1	2.47	0.46
3:TN:139:LEU:N	3:TN:168:SER:OG	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:U:236:ARG:HD3	3:UJ:280:GLN:NE2	2.31	0.46
4:UA:9:VAL:HA	4:UA:68:VAL:HG23	1.98	0.46
4:UA:208:ALA:H	4:UA:304:LYS:NZ	2.13	0.46
3:UB:6:HIS:HB3	3:UB:21:TRP:HZ2	1.81	0.46
4:UC:75:VAL:HG22	4:UC:79:ARG:HH21	1.81	0.46
3:UD:272:PRO:HA	3:UD:292:GLN:OE1	2.16	0.46
3:UF:77:ARG:O	3:UF:77:ARG:NH1	2.42	0.46
3:UF:255:VAL:HG12	4:UG:407:TRP:CD2	2.51	0.46
3:UF:410:GLU:HA	3:UF:413:SER:HB3	1.98	0.46
3:UH:269:GLY:HA3	3:UH:367:PHE:HB3	1.96	0.46
4:UI:154:MET:HA	4:UI:157:LEU:HG	1.97	0.46
4:UI:161:TYR:HB3	4:UI:164:LYS:NZ	2.31	0.46
3:UJ:39:ASP:OD1	3:UJ:43:GLN:NE2	2.49	0.46
4:UK:116:ASP:N	4:UK:116:ASP:OD1	2.45	0.46
4:UK:171:ILE:HD12	4:UK:204:VAL:HG13	1.96	0.46
4:UK:331:ALA:O	4:UK:334:THR:OG1	2.29	0.46
3:UL:39:ASP:N	3:UL:39:ASP:OD1	2.48	0.46
4:VA:33:ASP:OD1	4:VA:34:GLY:N	2.47	0.46
4:VA:318:LEU:HD13	4:VA:354:GLY:HA3	1.98	0.46
3:VD:52:ASN:ND2	3:VD:62:ARG:HD3	2.30	0.46
3:VF:41:ASP:N	3:VF:41:ASP:OD1	2.46	0.46
4:VG:406:HIS:HA	4:VG:409:VAL:HG22	1.98	0.46
3:VH:152:ILE:HD12	3:VH:195:ASN:HB2	1.98	0.46
3:VJ:81:PHE:O	3:VJ:84:ILE:HG22	2.14	0.46
4:VK:301:GLN:N	4:VK:301:GLN:OE1	2.49	0.46
4:WA:329:ASN:OD1	4:WA:330:ALA:N	2.49	0.46
3:WB:269:GLY:N	3:WB:367:PHE:O	2.49	0.46
4:WC:10:GLY:O	4:WC:14:VAL:HG13	2.16	0.46
4:WC:22:GLU:HG2	4:WC:83:TYR:CE2	2.51	0.46
3:WD:357:PRO:HB3	3:WD:362:LYS:O	2.15	0.46
3:WH:41:ASP:N	3:WH:41:ASP:OD1	2.47	0.46
3:WJ:309:ARG:H	3:WJ:372:THR:HG1	1.60	0.46
4:WK:402:ARG:HB2	4:WK:405:VAL:HG11	1.97	0.46
33:X:519:LYS:HA	33:X:522:LEU:HD12	1.98	0.46
34:XB:98:ASN:O	34:XB:100:ARG:NH1	2.48	0.46
34:XE:22:LEU:O	34:XE:22:LEU:HD23	2.16	0.46
35:XJ:72:ASP:CG	35:XJ:73:SER:H	2.23	0.46
35:XK:93:LEU:HB3	35:XK:94:PRO:HD3	1.97	0.46
37:YC:29:LEU:O	37:YC:33:ARG:HG3	2.16	0.46
37:YN:50:GLN:HA	37:YN:53:MET:HG2	1.96	0.46
37:YP:41:ARG:NH1	37:YP:44:SER:H	2.12	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:YU:46:ILE:O	37:YU:50:GLN:N	2.38	0.46
37:YU:144:VAL:HG13	37:YU:148:MET:HE1	1.98	0.46
36:Z:312:THR:O	36:Z:316:MET:HG2	2.16	0.46
1:A:94:ALA:HA	1:A:97:LEU:HD12	1.97	0.46
1:A:127:LYS:HZ3	1:B:467:VAL:H	1.64	0.46
1:A:198:GLN:HA	1:A:201:ARG:HB2	1.97	0.46
3:AB:385:PHE:HZ	3:AB:408:PHE:HB3	1.80	0.46
3:AD:386:THR:O	3:AD:390:ARG:HB2	2.16	0.46
4:AG:54:SER:N	4:AG:62:VAL:O	2.48	0.46
4:AG:72:PRO:HA	4:AG:75:VAL:HG12	1.98	0.46
4:AG:116:ASP:N	4:AG:116:ASP:OD1	2.46	0.46
4:AG:230:LEU:O	4:AG:234:ILE:HG12	2.16	0.46
4:AG:405:VAL:O	4:AG:409:VAL:HG22	2.16	0.46
3:AJ:305:PRO:HB2	3:AJ:310:TYR:HE1	1.81	0.46
4:AK:3:GLU:CD	4:AK:132:LEU:H	2.24	0.46
3:AL:189:VAL:HA	3:AL:192:LEU:HB2	1.98	0.46
4:AM:414:GLU:HG2	4:AM:417:GLU:OE1	2.16	0.46
1:B:319:VAL:O	1:B:323:LEU:HD23	2.15	0.46
5:B4:167:GLU:O	5:B4:170:GLN:HG3	2.16	0.46
5:B6:63:ARG:HD3	5:B7:333:GLN:HG2	1.98	0.46
5:B7:335:GLN:O	5:B7:339:ILE:HG13	2.16	0.46
3:BB:324:LYS:HE2	4:BC:222:PRO:CD	2.46	0.46
3:BD:54:ALA:N	3:BD:58:LYS:O	2.48	0.46
4:BE:54:SER:N	4:BE:62:VAL:O	2.45	0.46
4:BG:79:ARG:HB3	15:H3:20:TYR:HE1	1.81	0.46
4:BG:234:ILE:HD11	4:BG:272:TYR:HB2	1.98	0.46
3:BH:94:GLN:HG3	3:BH:94:GLN:O	2.15	0.46
4:BI:311:LYS:NZ	4:BI:343:PHE:O	2.46	0.46
3:BJ:12:CYS:HB3	39:BJ:501:GTP:C4'	2.45	0.46
7:C3:131:LYS:NZ	7:C4:433:THR:OG1	2.49	0.46
7:C3:141:HIS:CG	7:C4:419:ARG:HH12	2.34	0.46
7:C3:299:THR:HA	7:C3:302:LYS:HE3	1.98	0.46
7:C6:103:ASN:OD1	7:C6:104:LEU:N	2.48	0.46
7:C6:119:ARG:NH2	10:E1:148:GLU:HB3	2.28	0.46
7:C7:94:TYR:CE2	7:C8:208:ILE:HA	2.49	0.46
7:C7:231:GLU:O	7:C7:234:ARG:HG2	2.16	0.46
7:C8:164:LEU:O	7:C8:168:ILE:HG12	2.16	0.46
7:C8:199:LEU:HD21	7:C8:219:LEU:HB3	1.98	0.46
4:CC:129:CYS:HB3	4:CC:132:LEU:HB3	1.98	0.46
3:CD:309:ARG:O	3:CD:371:SER:OG	2.25	0.46
4:CE:196:GLU:HG2	4:CE:197:HIS:ND1	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CF:229:VAL:O	3:CF:233:MET:HE3	2.16	0.46
3:CH:148:GLY:O	3:CH:152:ILE:HG12	2.16	0.46
3:CH:189:VAL:HA	3:CH:192:LEU:HB2	1.97	0.46
4:CI:75:VAL:HA	4:CI:78:VAL:HG12	1.97	0.46
4:CK:272:TYR:HE1	4:CK:374:ALA:HB1	1.81	0.46
3:CL:6:HIS:HD2	3:CL:8:GLN:NE2	2.14	0.46
3:CL:114:ASP:OD1	3:CL:115:SER:N	2.48	0.46
7:Cc:231:GLU:O	7:Cc:235:GLN:OE1	2.33	0.46
7:Cc:369:LEU:N	7:Cc:452:LYS:HZ1	2.14	0.46
6:D:156:HIS:CE1	6:D:169:ILE:HD11	2.49	0.46
6:D:304:TYR:CE2	6:D:317:MET:HG3	2.39	0.46
8:D4:352:VAL:O	8:D4:356:ARG:HG2	2.15	0.46
8:D6:355:THR:HA	8:D7:241:TYR:HD2	1.81	0.46
8:D8:355:THR:OG1	8:D9:239:GLN:O	2.34	0.46
8:D9:327:THR:O	8:D9:330:THR:OG1	2.32	0.46
4:DA:116:ASP:N	4:DA:116:ASP:OD1	2.49	0.46
3:DB:271:ALA:HB2	3:DB:365:ALA:HB3	1.97	0.46
3:DB:415:MET:O	3:DB:419:VAL:HG23	2.16	0.46
4:DC:26:LEU:HG	4:DC:363:VAL:HG23	1.97	0.46
4:DC:36:MET:HG3	4:DC:39:ASP:OD1	2.16	0.46
4:DC:115:VAL:HA	4:DC:118:VAL:HG22	1.98	0.46
3:DF:141:GLY:HA3	39:DF:501:GTP:H5"	1.98	0.46
4:DG:160:ASP:OD1	4:DG:161:TYR:N	2.49	0.46
3:DH:12:CYS:SG	3:DH:13:GLY:N	2.89	0.46
4:DK:54:SER:N	4:DK:62:VAL:O	2.49	0.46
4:DK:224:TYR:O	4:DK:225:THR:C	2.58	0.46
4:DK:261:PRO:HA	3:DL:394:PHE:CE1	2.51	0.46
4:DK:326:LYS:HE2	3:DL:218:THR:O	2.15	0.46
4:DK:343:PHE:HD2	4:DK:347:CYS:SG	2.39	0.46
9:E:799:ASP:O	9:E:802:THR:OG1	2.25	0.46
10:E3:112:HIS:HA	10:E3:119:TRP:CE3	2.51	0.46
3:EB:36:TYR:CZ	3:EB:38:GLY:HA2	2.51	0.46
4:EC:196:GLU:HG2	4:EC:197:HIS:ND1	2.31	0.46
3:ED:217:LEU:O	3:ED:219:THR:N	2.47	0.46
3:EF:156:ARG:CZ	3:EF:164:MET:HE1	2.46	0.46
3:EH:152:ILE:HA	3:EH:155:ILE:HG12	1.98	0.46
4:EI:89:PRO:HB2	4:EI:90:GLU:OE1	2.16	0.46
3:EJ:52:ASN:CG	3:EJ:62:ARG:HD3	2.41	0.46
3:EJ:105:HIS:ND1	3:EJ:149:THR:OG1	2.48	0.46
3:EJ:163:ILE:HD13	3:EJ:250:LEU:HB2	1.98	0.46
3:EJ:414:ASN:O	3:EJ:418:LEU:N	2.43	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EJ:421:GLU:HA	3:EJ:424:GLN:HE21	1.80	0.46
3:EL:51:TYR:HB3	3:EL:59:TYR:HB3	1.96	0.46
11:F1:247:GLN:HA	11:F1:250:LEU:HG	1.98	0.46
11:F2:211:VAL:HG13	11:F2:343:PHE:HE1	1.79	0.46
11:F2:244:ARG:NH1	11:F2:247:GLN:OE1	2.49	0.46
11:F3:297:ALA:O	11:F3:300:SER:OG	2.30	0.46
11:F6:373:ASN:O	11:F6:376:MET:HG3	2.15	0.46
4:FA:423:GLU:HA	4:FA:426:ALA:HB3	1.96	0.46
4:FC:390:ARG:HA	4:FC:393:HIS:CD2	2.51	0.46
3:FD:183:TYR:O	3:FD:187:LEU:HD23	2.16	0.46
3:FD:302:ALA:HB1	3:FD:377:LEU:HD21	1.98	0.46
3:FF:345:ILE:HD12	3:FF:346:PRO:HD2	1.98	0.46
4:FG:188:ILE:HG22	4:FG:421:ALA:HB1	1.98	0.46
4:FI:10:GLY:O	4:FI:14:VAL:HG13	2.15	0.46
4:FI:165:SER:C	4:FI:166:LYS:HD2	2.40	0.46
3:FL:15:GLN:NE2	39:FL:501:GTP:HN1	2.14	0.46
3:FL:271:ALA:HB3	3:FL:365:ALA:H	1.81	0.46
11:Fc:327:THR:HG22	11:Fc:331:GLN:NE2	2.20	0.46
11:Fc:356:LYS:HA	11:Fc:356:LYS:HD3	1.71	0.46
11:Fe:315:ILE:HG23	11:Fe:318:ARG:NH2	2.31	0.46
11:Ff:283:VAL:HG11	11:Fg:397:ALA:HA	1.98	0.46
11:Fl:169:SER:O	11:Fl:172:THR:OG1	2.29	0.46
11:Fm:253:ASP:HA	11:Fm:256:ASP:HB2	1.96	0.46
13:G1:32:ASN:OD1	13:G1:39:VAL:HG23	2.16	0.46
14:G4:171:ASP:O	14:G4:174:THR:OG1	2.18	0.46
14:G4:544:ASN:HB3	14:G4:547:LEU:HG	1.97	0.46
14:G5:194:ASP:HB3	14:G5:197:MET:HB2	1.97	0.46
14:G6:734:ARG:HE	14:G6:735:TYR:N	2.02	0.46
4:GA:264:ARG:O	4:GA:266:HIS:ND1	2.48	0.46
4:GA:315:CYS:O	4:GA:351:PHE:HA	2.16	0.46
3:GD:130:LEU:HG	3:GD:132:GLY:N	2.31	0.46
3:GD:218:THR:OG1	3:GD:219:THR:N	2.48	0.46
3:GD:249:ASP:O	3:GD:252:LYS:HB3	2.14	0.46
3:GD:268:PRO:HD2	3:GD:301:ALA:HB2	1.97	0.46
4:GG:196:GLU:HG2	4:GG:197:HIS:ND1	2.31	0.46
4:GG:213:CYS:HA	4:GG:217:LEU:HB2	1.98	0.46
3:GH:249:ASP:OD2	3:GH:251:ARG:HB3	2.16	0.46
4:GI:113:GLU:N	4:GI:113:GLU:OE1	2.44	0.46
3:GJ:209:ASP:O	3:GJ:213:ARG:HG2	2.16	0.46
4:GK:208:ALA:H	4:GK:304:LYS:HZ1	1.64	0.46
4:GK:274:PRO:HG3	4:GK:374:ALA:HA	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HA:310:GLY:HA3	4:HA:383:ALA:HB2	1.98	0.46
4:HE:139:HIS:CD2	4:HE:170:ALA:HB2	2.51	0.46
4:HE:165:SER:C	4:HE:166:LYS:HD2	2.41	0.46
4:HG:15:GLN:OE1	4:HG:15:GLN:N	2.44	0.46
4:HG:216:ASN:ND2	4:HG:275:VAL:O	2.49	0.46
4:HI:35:GLN:HG2	4:HI:59:GLY:O	2.16	0.46
3:HJ:155:ILE:HA	3:HJ:158:GLU:HG2	1.98	0.46
3:HJ:374:ILE:HG22	3:HJ:378:PHE:CE2	2.51	0.46
4:HK:234:ILE:HD11	4:HK:272:TYR:HB2	1.97	0.46
3:HL:266:PHE:HD1	3:HL:370:ASN:OD1	1.99	0.46
4:IA:88:HIS:CD2	4:IA:90:GLU:HG2	2.50	0.46
3:IB:109:GLY:O	3:IB:113:VAL:HG13	2.16	0.46
4:IC:10:GLY:O	4:IC:14:VAL:HG13	2.16	0.46
4:IC:16:ILE:HG23	39:IC:501:GTP:HN1	1.81	0.46
4:IC:329:ASN:OD1	4:IC:330:ALA:N	2.49	0.46
3:ID:132:GLY:HA3	3:ID:163:ILE:H	1.81	0.46
3:ID:174:LYS:HG3	3:ID:175:VAL:HG12	1.97	0.46
3:IF:88:ASP:HB2	4:JE:280:LYS:HZ1	1.81	0.46
4:IG:214:ARG:HH11	4:IG:215:ARG:HG3	1.80	0.46
4:IG:274:PRO:HG3	4:IG:374:ALA:HA	1.98	0.46
3:IJ:330:MET:HG2	3:IJ:349:VAL:HG11	1.98	0.46
3:IL:152:ILE:O	3:IL:156:ARG:HG2	2.16	0.46
18:J:84:LEU:HD22	20:K:25:ARG:NE	2.31	0.46
19:J2:92:HIS:NE2	19:J2:123:TYR:HD2	2.14	0.46
4:JA:196:GLU:HG2	4:JA:197:HIS:ND1	2.31	0.46
3:JB:5:VAL:HG23	3:JB:130:LEU:HD21	1.97	0.46
3:JB:114:ASP:OD1	3:JB:115:SER:N	2.49	0.46
3:JD:113:VAL:HA	3:JD:116:VAL:HG22	1.96	0.46
3:JF:81:PHE:O	3:JF:84:ILE:HG22	2.15	0.46
4:JG:80:THR:HG22	4:JG:80:THR:O	2.16	0.46
4:JG:165:SER:C	4:JG:166:LYS:HD2	2.41	0.46
4:JI:30:ILE:HG13	4:JI:53:PHE:HE2	1.80	0.46
4:JI:116:ASP:HA	4:JI:119:LEU:HD12	1.97	0.46
4:JI:122:ILE:O	4:JI:126:ALA:N	2.43	0.46
3:JJ:12:CYS:HA	39:JJ:501:GTP:HN22	1.79	0.46
20:K:151:CYS:HA	20:K:196:TRP:CD1	2.51	0.46
21:K2:390:ARG:HG3	21:K2:395:ARG:NH2	2.29	0.46
21:K2:397:LEU:HD12	21:K2:398:VAL:N	2.31	0.46
21:K2:440:HIS:HA	21:K2:443:LEU:HD12	1.97	0.46
21:K3:173:LEU:O	21:K3:177:GLN:HG3	2.16	0.46
21:K3:403:ARG:HD2	21:K4:244:ALA:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:K4:466:ARG:NE	3:KL:400:GLY:O	2.39	0.46
4:KA:145:THR:OG1	39:KA:501:GTP:O1B	2.34	0.46
3:KB:256:ASN:HB3	3:KB:350:LYS:HG3	1.98	0.46
4:KC:389:ALA:HA	4:KC:392:ASP:OD2	2.16	0.46
3:KD:337:ASN:HB2	3:KD:340:TYR:CD2	2.51	0.46
4:KE:20:CYS:O	4:KE:24:TYR:N	2.43	0.46
4:KE:105:ARG:HG2	4:KE:109:THR:HG21	1.98	0.46
4:KG:165:SER:C	4:KG:166:LYS:HD2	2.41	0.46
3:KH:36:TYR:CE2	3:KH:38:GLY:HA2	2.51	0.46
3:KH:46:ARG:NH2	4:KI:73:THR:HA	2.27	0.46
3:KH:420:SER:HB2	31:R2:120:TYR:CE2	2.51	0.46
4:KI:140:SER:HB2	4:KI:171:ILE:HG22	1.98	0.46
3:KJ:357:PRO:HB3	3:KJ:362:LYS:HA	1.98	0.46
3:KL:72:THR:O	3:KL:75:SER:OG	2.28	0.46
4:LA:371:VAL:HG11	4:LA:374:ALA:HB2	1.97	0.46
4:LC:245:ASP:OD1	4:LC:249:ASN:ND2	2.43	0.46
3:LJ:172:SER:OG	3:LJ:205:GLU:OE2	2.20	0.46
3:LJ:183:TYR:CD1	3:LJ:388:MET:HE3	2.51	0.46
3:LL:392:LYS:HD3	3:LL:395:LEU:HD22	1.98	0.46
4:MC:256:GLN:O	4:MC:260:VAL:HG12	2.16	0.46
3:MD:328:GLU:O	3:MD:332:ASN:N	2.31	0.46
4:ME:312:TYR:HB2	4:ME:343:PHE:HA	1.98	0.46
4:MG:339:ARG:HB3	28:O2:107:ASN:HA	1.97	0.46
4:MG:411:GLU:OE2	4:MG:413:MET:HE1	2.14	0.46
3:MH:423:GLN:O	3:MH:427:ASP:N	2.45	0.46
4:MI:145:THR:HG1	39:MI:501:GTP:PB	2.38	0.46
3:MJ:322:SER:N	3:MJ:325:GLU:OE2	2.31	0.46
4:MK:397:LEU:O	4:MK:401:LYS:HG2	2.15	0.46
3:ML:11:GLN:HG3	39:ML:501:GTP:PA	2.56	0.46
3:ML:84:ILE:O	3:ML:86:ARG:NH1	2.48	0.46
3:ML:382:SER:HB2	28:O3:35:HIS:NE2	2.31	0.46
3:ML:391:ARG:O	3:ML:391:ARG:NH1	2.48	0.46
4:MM:274:PRO:HG3	4:MM:374:ALA:HA	1.98	0.46
3:ND:330:MET:HA	3:ND:333:VAL:HG12	1.96	0.46
4:NG:35:GLN:HG2	4:NG:59:GLY:O	2.16	0.46
4:NG:163:LYS:HA	4:NG:163:LYS:HD3	1.79	0.46
4:NI:107:HIS:HA	4:NI:152:LEU:HD22	1.97	0.46
3:NJ:12:CYS:SG	3:NJ:13:GLY:N	2.89	0.46
3:NJ:344:TRP:O	4:NK:398:MET:HE1	2.16	0.46
4:NK:163:LYS:HA	4:NK:163:LYS:HD3	1.80	0.46
4:OA:24:TYR:O	4:OA:28:HIS:ND1	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:OB:223:GLY:O	3:OB:227:HIS:N	2.46	0.46
4:OC:21:TRP:HD1	4:OC:67:PHE:HZ	1.64	0.46
4:OC:167:LEU:HD13	4:OC:200:CYS:HB2	1.98	0.46
3:OD:172:SER:OG	3:OD:205:GLU:OE2	2.21	0.46
4:OE:405:VAL:O	4:OE:408:TYR:N	2.49	0.46
3:OF:135:LEU:O	3:OF:167:PHE:N	2.48	0.46
3:OH:109:GLY:O	3:OH:113:VAL:HG13	2.16	0.46
3:OH:206:ALA:O	3:OH:210:ILE:HG12	2.15	0.46
3:OJ:130:LEU:HB2	3:OJ:162:ARG:HH11	1.80	0.46
4:OK:405:VAL:HG22	4:OK:409:VAL:HG13	1.97	0.46
3:OL:21:TRP:CZ2	3:OL:63:ALA:HB2	2.51	0.46
29:P1:303:HIS:NE2	30:Q1:1498:ASP:OD2	2.49	0.46
29:P1:507:CYS:SG	29:P1:551:MET:HE2	2.56	0.46
29:P3:230:LEU:HB3	29:P3:232:MET:SD	2.56	0.46
4:PA:255:PHE:O	4:PA:259:LEU:HB2	2.16	0.46
3:PB:214:THR:HG21	3:PB:273:LEU:HB3	1.98	0.46
4:PC:252:LEU:HA	4:PC:255:PHE:CD2	2.51	0.46
4:PC:405:VAL:O	4:PC:409:VAL:HG22	2.15	0.46
3:PF:415:MET:O	3:PF:419:VAL:HG23	2.16	0.46
3:PH:12:CYS:SG	39:PH:501:GTP:H5'	2.56	0.46
3:PH:58:LYS:HE2	3:QH:281:TYR:HE1	1.80	0.46
3:PH:324:LYS:HE2	4:PI:222:PRO:CD	2.46	0.46
4:PI:245:ASP:OD1	4:PI:249:ASN:ND2	2.43	0.46
4:PM:12:ALA:HB3	39:PM:501:GTP:H5"	1.97	0.46
27:Q:22:ASP:O	27:Q:25:ARG:HG2	2.16	0.46
27:Q:148:PHE:O	27:Q:152:ARG:HG3	2.16	0.46
30:Q1:1457:SER:O	30:Q1:1460:THR:OG1	2.31	0.46
3:QB:255:VAL:HG12	4:QC:407:TRP:CE3	2.51	0.46
4:QC:1:MET:O	4:QC:133:GLN:NE2	2.40	0.46
3:QD:150:LEU:C	3:QD:154:LYS:HZ3	2.24	0.46
3:QD:324:LYS:HD2	4:QE:221:ARG:HA	1.98	0.46
4:QE:2:ARG:HA	4:QE:133:GLN:NE2	2.31	0.46
4:QE:413:MET:SD	4:QE:413:MET:N	2.88	0.46
4:QG:2:ARG:HA	4:QG:133:GLN:HE22	1.81	0.46
4:QG:105:ARG:O	4:QG:109:THR:OG1	2.25	0.46
3:QH:2:ARG:HA	3:QH:129:CYS:O	2.16	0.46
3:QH:217:LEU:O	3:QH:219:THR:N	2.49	0.46
3:QH:334:GLN:O	3:QH:338:SER:OG	2.25	0.46
4:QI:30:ILE:HG13	4:QI:53:PHE:HE2	1.81	0.46
4:QI:180:ALA:HB1	4:QI:182:VAL:HG12	1.97	0.46
4:QI:411:GLU:OE2	4:QI:413:MET:HE1	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QL:176:SER:O	3:QL:178:THR:N	2.49	0.46
4:QM:35:GLN:HG2	4:QM:59:GLY:O	2.16	0.46
31:R1:269:ALA:HA	31:R1:276:ARG:HH11	1.81	0.46
31:R2:125:ARG:O	31:R2:129:LYS:HG2	2.15	0.46
4:RE:427:ALA:HA	4:RE:430:LYS:HG2	1.96	0.46
4:RG:176:GLN:OE1	4:RG:176:GLN:N	2.49	0.46
4:RG:244:PHE:HB2	4:RG:356:ASN:HD21	1.80	0.46
3:RH:152:ILE:O	3:RH:156:ARG:HG2	2.16	0.46
4:RI:363:VAL:HG13	4:RI:366:GLY:HA3	1.98	0.46
4:RI:390:ARG:HA	4:RI:393:HIS:NE2	2.31	0.46
3:RJ:138:SER:HB2	3:RJ:169:VAL:HG12	1.97	0.46
4:RK:22:GLU:HG2	4:RK:83:TYR:CE2	2.51	0.46
4:RK:116:ASP:N	4:RK:116:ASP:OD1	2.47	0.46
4:RM:47:ASP:HB3	4:RM:49:PHE:CE2	2.51	0.46
4:RM:345:ASP:N	4:RM:345:ASP:OD1	2.49	0.46
3:SB:52:ASN:ND2	3:SB:62:ARG:HD3	2.30	0.46
3:SD:2:ARG:HA	3:SD:129:CYS:O	2.16	0.46
3:SD:330:MET:CG	3:SD:349:VAL:HG11	2.46	0.46
3:SF:2:ARG:HB3	3:SF:131:GLN:NE2	2.31	0.46
3:SF:12:CYS:HB3	39:SF:501:GTP:O4'	2.16	0.46
4:SG:173:PRO:HB2	4:SG:390:ARG:HH22	1.80	0.46
3:SL:103:LYS:HG3	3:SL:104:GLY:N	2.31	0.46
4:SM:47:ASP:HB3	4:SM:49:PHE:CE2	2.51	0.46
4:SM:146:GLY:N	39:SM:501:GTP:O2B	2.49	0.46
4:TC:163:LYS:HA	4:TC:163:LYS:HD3	1.76	0.46
3:TD:253:LEU:O	3:TD:257:MET:HG2	2.16	0.46
4:TE:351:PHE:HE1	3:TF:175:VAL:HG22	1.80	0.46
4:TG:104:ALA:HB1	4:TG:413:MET:HE3	1.98	0.46
3:TH:197:ASP:OD1	3:TH:198:GLU:N	2.48	0.46
3:TJ:130:LEU:HB2	3:TJ:162:ARG:HH11	1.81	0.46
4:TK:156:ARG:HA	4:TK:159:VAL:HG22	1.98	0.46
4:TM:172:TYR:N	4:TM:204:VAL:O	2.37	0.46
4:TM:185:TYR:OH	4:TM:403:ALA:O	2.20	0.46
3:TN:182:PRO:HA	3:TN:381:ILE:HD11	1.98	0.46
33:U:265:ILE:HD13	4:UI:282:TYR:HB2	1.98	0.46
33:U:464:GLN:O	33:U:467:LYS:HG2	2.16	0.46
4:UC:329:ASN:OD1	4:UC:330:ALA:N	2.49	0.46
3:UD:420:SER:O	3:UD:424:GLN:N	2.35	0.46
4:UE:9:VAL:HA	4:UE:68:VAL:HG23	1.96	0.46
3:UF:385:PHE:HZ	3:UF:408:PHE:HB3	1.81	0.46
3:UH:84:ILE:O	3:UH:86:ARG:NH1	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UH:150:LEU:O	3:UH:153:SER:OG	2.31	0.46
4:UI:405:VAL:O	4:UI:409:VAL:HG22	2.15	0.46
4:UK:12:ALA:O	39:UK:501:GTP:N1	2.49	0.46
4:UK:35:GLN:HG2	4:UK:59:GLY:O	2.15	0.46
4:UK:52:PHE:HZ	4:UK:239:THR:HB	1.81	0.46
4:UK:70:LEU:HA	4:UK:95:GLY:HA3	1.98	0.46
3:UL:158:GLU:OE1	3:UL:158:GLU:N	2.46	0.46
33:V:511:ARG:O	33:V:514:ILE:HG22	2.16	0.46
3:VB:11:GLN:HE21	39:VB:501:GTP:H3'	1.81	0.46
3:VB:137:HIS:O	3:VB:168:SER:HA	2.16	0.46
4:VG:102:ASN:ND2	4:VG:411:GLU:OE2	2.47	0.46
4:VG:165:SER:C	4:VG:166:LYS:HD2	2.41	0.46
3:VJ:114:ASP:N	3:VJ:114:ASP:OD1	2.46	0.46
4:VK:331:ALA:O	4:VK:335:ILE:HG12	2.15	0.46
3:VL:176:SER:O	3:VL:178:THR:N	2.49	0.46
33:W:83:THR:HG22	33:W:86:MET:HE3	1.98	0.46
33:W:185:MET:SD	33:X:517:ILE:HG13	2.55	0.46
33:W:304:ARG:O	33:W:304:ARG:NH1	2.49	0.46
4:WA:411:GLU:OE2	4:WA:413:MET:HE1	2.15	0.46
3:WB:293:MET:HA	3:WB:293:MET:HE2	1.96	0.46
3:WD:2:ARG:HA	3:WD:129:CYS:O	2.16	0.46
3:WD:11:GLN:HG3	39:WD:501:GTP:PA	2.56	0.46
4:WE:263:PRO:HB2	4:WE:264:ARG:CZ	2.45	0.46
4:WE:287:SER:N	4:WE:290:GLU:OE2	2.48	0.46
3:WF:114:ASP:OD1	3:WF:115:SER:N	2.49	0.46
4:WG:135:PHE:HD2	4:WG:166:LYS:HG3	1.79	0.46
3:WH:269:GLY:N	3:WH:367:PHE:O	2.48	0.46
4:WK:75:VAL:HA	4:WK:78:VAL:HG12	1.96	0.46
4:WK:272:TYR:CZ	4:WK:274:PRO:HG2	2.51	0.46
3:WL:148:GLY:O	3:WL:152:ILE:HG12	2.16	0.46
3:WL:235:GLY:O	3:WL:238:THR:OG1	2.24	0.46
3:WL:272:PRO:HA	3:WL:292:GLN:OE1	2.15	0.46
34:XA:14:LEU:HB2	34:XA:25:TRP:CE2	2.51	0.46
34:XA:164:ARG:NH2	34:XA:181:PHE:HA	2.31	0.46
34:XF:81:LYS:HD3	34:XF:161:ARG:HD2	1.98	0.46
34:XF:173:SER:OG	34:XF:176:GLU:OE1	2.29	0.46
35:XI:184:PHE:HA	35:XI:187:MET:HG2	1.96	0.46
35:XK:57:ARG:HB3	35:XK:102:GLU:HG3	1.96	0.46
35:XK:212:THR:HB	35:XK:216:PHE:HE2	1.80	0.46
35:XM:171:LEU:HA	35:XM:174:TYR:CZ	2.51	0.46
36:Y:164:VAL:HG12	36:Y:168:TYR:CE2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:YF:113:LEU:HD13	37:YF:140:LEU:HD23	1.98	0.46
37:YG:70:MET:HE3	37:YG:70:MET:HA	1.97	0.46
37:YI:22:GLN:O	37:YI:26:ILE:HG12	2.16	0.46
37:YK:47:GLU:HA	37:YK:50:GLN:OE1	2.16	0.46
37:YM:117:TYR:CD1	37:YM:118:PRO:HA	2.51	0.46
37:YO:3:GLU:HA	37:YO:6:GLU:HB3	1.98	0.46
37:YR:117:TYR:CG	37:YR:118:PRO:HA	2.51	0.46
2:A1:311:LYS:NZ	2:A2:198:ILE:HB	2.31	0.46
2:A2:138:LYS:HZ1	17:I2:62:ALA:C	2.23	0.46
2:A3:337:LEU:HA	2:A3:340:GLU:HG3	1.98	0.46
3:AD:39:ASP:OD1	3:AD:39:ASP:N	2.49	0.46
3:AD:350:LYS:HE3	4:AE:180:ALA:HA	1.98	0.46
3:AF:11:GLN:O	3:AF:15:GLN:NE2	2.49	0.46
4:AI:160:ASP:OD1	4:AI:161:TYR:N	2.49	0.46
4:AI:390:ARG:HA	4:AI:393:HIS:CD2	2.50	0.46
4:AK:226:ASN:HA	4:AK:229:ARG:HB3	1.97	0.46
3:AL:28:HIS:O	3:AL:43:GLN:NE2	2.49	0.46
4:AM:165:SER:C	4:AM:166:LYS:HD2	2.41	0.46
5:B3:303:ASP:HB3	5:B3:307:LYS:HZ1	1.80	0.46
5:B6:70:THR:O	5:B6:73:ARG:HG2	2.16	0.46
5:B6:203:VAL:HG21	8:D9:118:GLN:OE1	2.15	0.46
5:B8:120:ARG:NE	5:B8:120:ARG:HA	2.31	0.46
5:B8:400:PRO:HG3	5:B8:403:LYS:HE2	1.98	0.46
3:BD:113:VAL:HA	3:BD:116:VAL:HG22	1.97	0.46
4:BG:333:ALA:O	4:BG:337:THR:HG23	2.15	0.46
4:BG:399:TYR:OH	4:BG:415:GLU:HB2	2.15	0.46
4:BG:429:GLU:O	4:BG:433:GLU:HG2	2.15	0.46
4:BI:363:VAL:H	4:BI:368:LEU:HD21	1.81	0.46
3:BJ:73:MET:HE1	3:BJ:92:PHE:CG	2.51	0.46
4:BK:169:PHE:HE1	4:BK:202:PHE:CD2	2.34	0.46
4:BK:260:VAL:HG23	4:BK:265:ILE:O	2.15	0.46
4:BK:272:TYR:CE1	4:BK:374:ALA:HB1	2.51	0.46
3:BL:113:VAL:HA	3:BL:116:VAL:HG22	1.96	0.46
4:BM:196:GLU:HG2	4:BM:197:HIS:ND1	2.31	0.46
6:C:304:TYR:HB3	6:C:314:TYR:HE1	1.79	0.46
7:C3:202:ARG:NH2	7:C3:472:LYS:HD2	2.31	0.46
7:C3:340:PHE:HE1	7:C3:477:ARG:HD3	1.81	0.46
7:C4:192:LEU:HG	7:C4:196:ARG:HH12	1.80	0.46
7:C5:417:GLN:HA	7:C5:420:LEU:HG	1.97	0.46
7:C5:423:GLU:HA	7:C5:426:GLU:CG	2.46	0.46
3:CB:31:ASP:HB3	3:CB:37:HIS:NE2	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CD:48:ASN:HB2	15:H2:224:PHE:CD2	2.51	0.46
3:CD:250:LEU:HD13	3:CD:253:LEU:HD12	1.97	0.46
3:CD:319:GLY:HA2	3:CD:357:PRO:HG3	1.98	0.46
4:CE:206:ASN:OD1	4:CE:206:ASN:N	2.48	0.46
4:CE:285:GLN:HE22	4:CE:287:SER:HB3	1.81	0.46
4:CG:256:GLN:HE22	3:CH:397:TRP:HE1	1.63	0.46
3:CH:213:ARG:NE	3:CH:297:LYS:HB3	2.31	0.46
4:CI:6:SER:HB3	4:CI:65:ALA:HB2	1.97	0.46
4:CI:10:GLY:O	4:CI:13:GLY:N	2.47	0.46
4:CI:88:HIS:HA	4:DG:283:HIS:HE1	1.81	0.46
4:CI:139:HIS:HE1	4:CI:168:GLU:HB3	1.80	0.46
4:CI:139:HIS:CE1	4:CI:168:GLU:HB3	2.51	0.46
4:CI:235:VAL:HA	4:CI:238:ILE:HG12	1.98	0.46
3:CJ:12:CYS:SG	3:CJ:13:GLY:N	2.89	0.46
3:CJ:40:SER:HB3	3:CJ:42:LEU:HD23	1.98	0.46
3:CJ:166:THR:OG1	3:CJ:198:GLU:O	2.33	0.46
3:CJ:386:THR:O	3:CJ:390:ARG:HB2	2.16	0.46
4:CK:84:ARG:NH2	15:H5:212:LEU:HB2	2.31	0.46
4:CK:263:PRO:HB2	4:CK:264:ARG:NH1	2.31	0.46
7:Cb:122:VAL:O	7:Cb:125:SER:OG	2.27	0.46
7:Cc:230:GLN:HA	7:Cc:233:MET:HE3	1.98	0.46
7:Cc:251:GLN:HA	7:Cc:254:LEU:HG	1.98	0.46
7:Cd:349:ASN:OD1	7:Cd:350:ARG:N	2.49	0.46
6:D:127:GLU:HG2	6:D:128:ILE:HD12	1.97	0.46
6:D:288:SER:HB2	6:D:330:GLU:HB3	1.98	0.46
8:D2:102:LYS:HE3	8:D3:372:ASN:ND2	2.31	0.46
8:D3:308:CYS:HA	8:D3:311:LEU:HD12	1.97	0.46
8:D4:23:PRO:HB2	8:D4:24:ARG:H	1.65	0.46
8:D7:255:GLU:OE1	8:D7:255:GLU:N	2.37	0.46
8:D8:287:ARG:NH1	8:D8:291:GLU:OE2	2.29	0.46
8:D8:367:GLU:OE1	8:D9:218:LYS:NZ	2.48	0.46
8:D9:114:LYS:HE2	8:D9:114:LYS:HB3	1.60	0.46
8:D9:134:GLN:HG3	8:D9:279:ARG:HD2	1.97	0.46
8:D9:186:ILE:O	8:D9:190:LEU:HG	2.16	0.46
4:DA:215:ARG:NH1	4:DA:299:ALA:O	2.37	0.46
4:DC:18:ASN:O	4:DC:22:GLU:HG3	2.16	0.46
4:DC:145:THR:OG1	39:DC:501:GTP:O1B	2.33	0.46
3:DD:111:GLU:OE1	3:DD:111:GLU:N	2.45	0.46
4:DE:254:GLU:OE1	4:DE:254:GLU:N	2.48	0.46
4:DE:426:ALA:C	4:DE:430:LYS:HZ2	2.24	0.46
3:DF:216:LYS:HB3	3:DF:276:ARG:CZ	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DG:139:HIS:CE1	4:DG:168:GLU:HB3	2.50	0.46
4:EA:88:HIS:HB3	4:EA:91:GLN:HG2	1.97	0.46
4:EA:188:ILE:HG22	4:EA:421:ALA:HB1	1.98	0.46
3:EB:5:VAL:HB	3:EB:133:PHE:CE1	2.50	0.46
4:EC:224:TYR:O	4:EC:227:LEU:N	2.49	0.46
4:EC:260:VAL:O	3:ED:397:TRP:HH2	1.99	0.46
3:ED:148:GLY:O	3:ED:152:ILE:HG12	2.16	0.46
3:ED:229:VAL:C	3:ED:232:THR:HG1	2.20	0.46
3:ED:390:ARG:NH1	3:ED:391:ARG:HH21	2.11	0.46
4:EG:54:SER:N	4:EG:62:VAL:O	2.48	0.46
4:EG:137:ILE:O	4:EG:169:PHE:N	2.47	0.46
4:EG:139:HIS:CE1	4:EG:168:GLU:HB3	2.51	0.46
4:EG:271:THR:HB	4:EG:377:MET:HE3	1.98	0.46
3:EH:275:SER:H	3:EH:278:SER:HG	1.64	0.46
4:EI:39:ASP:C	4:EI:40:LYS:HD3	2.41	0.46
4:EK:172:TYR:HB2	4:EK:203:MET:HB3	1.98	0.46
3:EL:2:ARG:HG3	3:EL:131:GLN:CD	2.41	0.46
9:F:356:LEU:HB2	3:IL:227:HIS:ND1	2.30	0.46
11:F2:363:LYS:HB2	11:F3:110:ARG:NH2	2.31	0.46
11:F2:450:ARG:C	11:F2:453:HIS:HD1	2.21	0.46
11:F5:337:THR:HA	11:F5:340:ASN:HD22	1.81	0.46
11:F6:336:PHE:HB2	11:F6:476:PHE:HD2	1.80	0.46
11:F6:416:LEU:O	11:F6:419:GLU:HG3	2.16	0.46
11:F7:89:ARG:HH22	11:F8:204:ILE:HD12	1.81	0.46
11:F7:260:ALA:HB2	11:F8:406:GLU:OE1	2.16	0.46
11:F7:301:ASN:HA	11:F7:304:ILE:HG12	1.97	0.46
11:F9:435:ARG:HA	11:F9:438:GLN:HG2	1.97	0.46
11:F9:458:LYS:HZ1	11:F9:462:LEU:HD21	1.81	0.46
4:FA:68:VAL:HA	4:FA:93:ILE:HB	1.98	0.46
4:FA:154:MET:HA	4:FA:157:LEU:HG	1.97	0.46
3:FB:130:LEU:HB2	3:FB:162:ARG:NH1	2.30	0.46
3:FD:32:PRO:O	3:FD:83:GLN:NE2	2.41	0.46
3:FD:344:TRP:O	4:FE:401:LYS:NZ	2.33	0.46
4:FE:420:GLU:HA	4:FE:423:GLU:OE2	2.16	0.46
4:FG:89:PRO:HD2	4:GG:280:LYS:NZ	2.31	0.46
4:FG:285:GLN:HE22	4:FG:287:SER:HB3	1.81	0.46
3:FH:19:LYS:NZ	3:FH:223:GLY:O	2.49	0.46
3:FH:372:THR:HG21	3:FH:426:GLN:HG3	1.96	0.46
3:FJ:392:LYS:HD2	3:FJ:392:LYS:O	2.16	0.46
4:FK:153:LEU:HA	4:FK:156:ARG:NH2	2.31	0.46
3:FL:64:VAL:HA	3:FL:89:ASN:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Fa:362:ALA:HA	11:Fa:365:LEU:HD12	1.97	0.46
11:Fa:431:LYS:HB3	11:Fa:431:LYS:HE3	1.73	0.46
11:Fb:405:VAL:HA	11:Fc:290:VAL:HG11	1.98	0.46
11:Fb:411:VAL:H	11:Fc:145:ARG:NH2	2.11	0.46
11:Fc:117:THR:O	11:Fc:121:LEU:HG	2.16	0.46
11:Fc:360:GLN:O	11:Fc:364:ILE:HG23	2.16	0.46
11:Fe:466:LYS:HD3	11:Fe:466:LYS:HA	1.62	0.46
11:Fj:210:ASN:HA	11:Fj:213:LYS:HE2	1.98	0.46
11:Fl:198:ARG:CZ	11:Fl:201:ARG:HH21	2.28	0.46
11:Fm:375:ILE:O	11:Fm:378:LEU:N	2.48	0.46
11:Fm:439:ASP:O	11:Fm:443:LEU:HG	2.16	0.46
13:G1:35:ASN:O	28:O1:18:TYR:CZ	2.69	0.46
13:G1:149:ILE:HG21	13:G1:154:PHE:HE1	1.81	0.46
13:G1:280:GLU:HG2	13:G1:281:ARG:N	2.30	0.46
13:G1:357:ASP:OD1	13:G1:357:ASP:N	2.47	0.46
13:G2:348:ASP:O	13:G2:352:ARG:N	2.38	0.46
14:G4:509:ILE:HB	14:G4:597:GLN:HA	1.97	0.46
14:G4:583:ARG:NH2	14:G4:725:PRO:HG3	2.32	0.46
14:G6:178:LEU:HD22	14:G6:185:LEU:HD21	1.97	0.46
14:G6:235:LEU:HD11	14:G6:246:ARG:HG3	1.98	0.46
14:G6:587:MET:HE3	14:G6:587:MET:HA	1.98	0.46
14:G6:610:GLU:N	14:G6:610:GLU:OE1	2.49	0.46
14:G6:658:ILE:HD12	14:G6:658:ILE:H	1.80	0.46
14:G6:683:ASP:H	14:G6:686:HIS:HA	1.81	0.46
4:GA:8:HIS:NE2	4:GA:21:TRP:HH2	2.14	0.46
4:GA:36:MET:HG3	4:GA:41:THR:OG1	2.16	0.46
4:GA:203:MET:HE1	4:GA:267:PHE:HB3	1.98	0.46
3:GF:52:ASN:CG	3:GF:62:ARG:HD3	2.41	0.46
3:GF:384:GLN:O	3:GF:388:MET:HG2	2.16	0.46
3:GH:251:ARG:O	3:GH:255:VAL:HG22	2.16	0.46
4:GI:74:VAL:O	4:GI:77:GLU:HG3	2.15	0.46
3:GL:21:TRP:HZ3	3:GL:51:TYR:HE1	1.64	0.46
15:H4:307:ALA:O	15:H4:310:LYS:N	2.49	0.46
15:H5:307:ALA:C	15:H5:311:GLU:HG3	2.41	0.46
15:H6:20:TYR:HB2	15:H6:24:TYR:OH	2.16	0.46
15:H6:306:ARG:NH1	15:H6:307:ALA:HB2	2.31	0.46
3:HD:104:GLY:HA2	3:HD:108:GLU:HB2	1.97	0.46
4:HE:208:ALA:HB2	4:HE:304:LYS:HE3	1.98	0.46
4:HE:387:ALA:O	4:HE:391:LEU:HG	2.15	0.46
4:HG:89:PRO:HB2	4:HG:90:GLU:OE1	2.16	0.46
4:HI:320:ARG:CZ	4:HI:360:PRO:HA	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HI:414:GLU:HG2	4:HI:417:GLU:OE1	2.16	0.46
3:HJ:114:ASP:N	3:HJ:114:ASP:OD1	2.45	0.46
17:I1:73:PHE:O	17:I1:76:ASN:ND2	2.48	0.46
4:IE:333:ALA:HA	4:IE:336:LYS:HD2	1.97	0.46
3:IF:218:THR:OG1	3:IF:219:THR:N	2.48	0.46
3:IF:386:THR:O	3:IF:390:ARG:HB2	2.15	0.46
4:IG:307:PRO:HG2	4:IG:308:ARG:NH1	2.31	0.46
3:IH:44:LEU:HG	20:K:9:GLY:HA3	1.97	0.46
3:IJ:111:GLU:OE1	3:IJ:111:GLU:N	2.44	0.46
3:IJ:152:ILE:O	3:IJ:156:ARG:HG2	2.16	0.46
39:IJ:501:GTP:O3G	39:IJ:501:GTP:O3'	2.18	0.46
4:IK:255:PHE:O	4:IK:259:LEU:HB2	2.16	0.46
3:IL:6:HIS:HB3	3:IL:21:TRP:HZ2	1.80	0.46
3:IL:198:GLU:HA	3:IL:266:PHE:CE2	2.49	0.46
3:IL:417:ASP:O	3:IL:421:GLU:N	2.46	0.46
4:IM:2:ARG:NH1	4:IM:241:SER:O	2.49	0.46
4:IM:36:MET:HG3	4:IM:41:THR:OG1	2.16	0.46
19:J3:113:ALA:O	19:J3:117:LEU:HG	2.15	0.46
4:JA:271:THR:HB	4:JA:377:MET:HE3	1.97	0.46
3:JB:269:GLY:N	3:JB:367:PHE:O	2.49	0.46
4:JC:345:ASP:OD1	4:JC:345:ASP:N	2.47	0.46
4:JE:107:HIS:CD2	4:JE:152:LEU:HB2	2.51	0.46
3:JF:114:ASP:OD1	3:JF:114:ASP:N	2.48	0.46
3:JF:172:SER:OG	3:JF:205:GLU:OE2	2.18	0.46
3:JH:272:PRO:HA	3:JH:292:GLN:OE1	2.16	0.46
3:JH:273:LEU:H	3:JH:292:GLN:NE2	2.12	0.46
4:JI:230:LEU:O	4:JI:234:ILE:HG12	2.16	0.46
4:JI:329:ASN:OD1	4:JI:330:ALA:N	2.49	0.46
3:JJ:60:VAL:HG23	3:JJ:86:ARG:HH11	1.81	0.46
4:JK:9:VAL:HG11	4:JK:150:ALA:HB2	1.97	0.46
20:K:95:MET:O	20:K:125:ARG:NE	2.31	0.46
21:K4:476:GLN:HE21	4:KK:163:LYS:HZ1	1.64	0.46
21:K5:34:LEU:HD13	21:K5:38:ARG:HH22	1.80	0.46
3:KB:162:ARG:HA	3:KB:251:ARG:HH21	1.81	0.46
4:KC:31:GLN:OE1	4:KC:31:GLN:N	2.48	0.46
3:KD:246:LEU:HD22	3:KD:354:CYS:HA	1.97	0.46
4:KE:301:GLN:N	4:KE:301:GLN:OE1	2.49	0.46
4:KG:65:ALA:O	4:KG:91:GLN:NE2	2.45	0.46
4:KG:205:ASP:OD2	4:KG:304:LYS:NZ	2.35	0.46
4:KI:213:CYS:O	4:KI:218:ASP:N	2.49	0.46
4:KI:234:ILE:HD11	4:KI:272:TYR:HB2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KJ:182:PRO:HB3	3:KJ:381:ILE:HD11	1.98	0.46
4:KK:50:ASN:OD1	4:KK:51:THR:N	2.49	0.46
4:KK:113:GLU:OE1	4:KK:113:GLU:N	2.49	0.46
4:KK:260:VAL:HG13	3:KL:397:TRP:CH2	2.51	0.46
4:KK:386:GLU:HA	4:KK:389:ALA:HB3	1.97	0.46
3:KL:148:GLY:O	3:KL:152:ILE:HG12	2.16	0.46
3:KL:412:GLU:OE1	3:KL:416:ASN:ND2	2.42	0.46
20:L:176:SER:OG	20:L:180:GLY:N	2.48	0.46
22:L1:37:ASN:C	22:L1:41:LYS:HZ2	2.24	0.46
22:L1:105:PHE:CZ	3:LB:421:GLU:HA	2.50	0.46
22:L1:173:ASP:HA	22:L1:176:ILE:HB	1.98	0.46
22:L1:218:ILE:HD13	3:WB:218:THR:HG21	1.98	0.46
22:L3:129:ARG:NH1	4:LK:89:PRO:O	2.48	0.46
4:LA:320:ARG:N	4:LA:374:ALA:O	2.44	0.46
3:LB:176:SER:O	3:LB:178:THR:N	2.49	0.46
4:LC:50:ASN:OD1	4:LC:51:THR:N	2.49	0.46
4:LC:408:TYR:HD2	4:LC:418:PHE:HZ	1.64	0.46
4:LE:280:LYS:HA	4:LE:280:LYS:HD2	1.67	0.46
4:LG:52:PHE:HZ	4:LG:239:THR:HB	1.81	0.46
3:LH:46:ARG:NH1	4:LI:73:THR:HG23	2.30	0.46
3:LJ:12:CYS:HA	39:LJ:501:GTP:HN22	1.79	0.46
4:LK:32:PRO:O	4:LK:85:GLN:NE2	2.49	0.46
4:LK:408:TYR:HD2	4:LK:418:PHE:HZ	1.64	0.46
3:MB:317:PHE:O	3:MB:354:CYS:N	2.33	0.46
3:MD:113:VAL:HB	3:MD:154:LYS:HE3	1.97	0.46
3:MF:215:LEU:HD23	3:MF:217:LEU:HD21	1.97	0.46
3:MH:12:CYS:HA	39:MH:501:GTP:HN22	1.79	0.46
3:MH:250:LEU:HD13	3:MH:253:LEU:HD12	1.98	0.46
3:MH:279:GLN:HB3	27:P:188:ARG:CZ	2.46	0.46
3:MJ:12:CYS:HA	3:MJ:15:GLN:OE1	2.15	0.46
3:MJ:302:ALA:HB1	3:MJ:377:LEU:HD21	1.98	0.46
3:ML:172:SER:HB3	3:ML:175:VAL:O	2.15	0.46
4:MM:405:VAL:O	4:MM:409:VAL:HG22	2.16	0.46
26:N2:159:ARG:HA	26:N2:164:GLY:O	2.16	0.46
4:NA:216:ASN:OD1	4:NA:217:LEU:N	2.49	0.46
3:NB:113:VAL:HA	3:NB:116:VAL:HG22	1.98	0.46
4:NC:2:ARG:HA	4:NC:133:GLN:HE22	1.79	0.46
4:NC:167:LEU:HB3	4:NC:169:PHE:CE1	2.51	0.46
4:NC:186:ASN:OD1	4:NC:187:SER:N	2.48	0.46
4:NI:288:VAL:O	4:NI:292:THR:OG1	2.26	0.46
3:NJ:12:CYS:HB3	39:NJ:501:GTP:H5'	1.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NJ:311:LEU:HD11	3:NJ:372:THR:HG23	1.98	0.46
4:NK:214:ARG:NH1	4:NK:215:ARG:HG3	2.31	0.46
3:NL:58:LYS:HE2	3:OL:281:TYR:HE1	1.81	0.46
3:NL:101:TRP:HB2	3:NL:184:ASN:HD22	1.81	0.46
3:NL:152:ILE:HD12	3:NL:195:ASN:HB2	1.98	0.46
3:NL:394:PHE:HA	3:NL:397:TRP:HZ3	1.81	0.46
4:OA:345:ASP:N	4:OA:345:ASP:OD1	2.49	0.46
4:OE:292:THR:HA	4:OE:295:CYS:SG	2.56	0.46
3:OF:37:HIS:HA	37:YK:64:ARG:HH12	1.81	0.46
4:OG:352:LYS:NZ	3:OH:178:THR:HA	2.31	0.46
3:OH:34:GLY:HA3	3:OH:58:LYS:HZ2	1.81	0.46
3:OH:284:LEU:HD21	3:OH:363:MET:HB2	1.98	0.46
4:OI:176:GLN:NE2	4:OI:207:GLU:OE2	2.49	0.46
4:OI:220:GLU:O	4:OI:221:ARG:NE	2.44	0.46
3:OJ:174:LYS:HG3	3:OJ:175:VAL:HG12	1.97	0.46
3:OJ:419:VAL:O	3:OJ:423:GLN:NE2	2.48	0.46
4:OK:225:THR:O	4:OK:229:ARG:HB2	2.15	0.46
3:OL:131:GLN:HB3	3:OL:163:ILE:HD12	1.99	0.46
3:OL:240:LEU:HD22	3:OL:248:ALA:HB1	1.96	0.46
3:OL:289:LEU:HD13	3:OL:363:MET:HE3	1.98	0.46
29:P2:213:MET:HE3	29:P2:217:ASP:HA	1.97	0.46
29:P2:377:CYS:HB2	29:P2:393:TRP:CZ3	2.50	0.46
29:P2:400:ALA:HB1	29:P2:409:MET:HE3	1.97	0.46
29:P3:369:ARG:HD3	29:P3:369:ARG:H	1.80	0.46
4:PA:287:SER:N	4:PA:290:GLU:OE2	2.48	0.46
3:PB:345:ILE:HD12	4:PC:394:LYS:NZ	2.31	0.46
4:PC:319:TYR:HB2	4:PC:355:ILE:HD13	1.98	0.46
4:PE:47:ASP:HB3	4:PE:49:PHE:CE2	2.50	0.46
3:PF:324:LYS:HE2	4:PG:222:PRO:CD	2.46	0.46
4:PG:246:GLY:HA2	4:PG:357:TYR:CD2	2.51	0.46
4:PG:331:ALA:O	4:PG:335:ILE:HG12	2.16	0.46
4:PG:396:ASP:HB3	4:PG:422:ARG:HH22	1.80	0.46
3:PH:152:ILE:O	3:PH:156:ARG:HD2	2.16	0.46
4:PI:203:MET:HE1	4:PI:267:PHE:HB3	1.97	0.46
3:PJ:324:LYS:HE2	4:PK:222:PRO:HD2	1.97	0.46
4:PK:405:VAL:O	4:PK:409:VAL:HG22	2.16	0.46
4:PM:1:MET:N	4:PM:130:THR:OG1	2.49	0.46
4:PM:125:LEU:HD13	4:PM:128:LEU:HD21	1.97	0.46
30:Q1:1351:ASP:N	30:Q1:1351:ASP:OD1	2.48	0.46
30:Q2:1449:HIS:CE1	30:Q2:1450:CYS:HG	2.33	0.46
3:QD:2:ARG:HA	3:QD:129:CYS:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QD:324:LYS:HD3	4:QE:210:TYR:HE1	1.81	0.46
4:QE:34:GLY:O	4:QE:61:HIS:ND1	2.49	0.46
3:QF:214:THR:HG21	3:QF:273:LEU:HB3	1.97	0.46
3:QF:375:GLN:HA	3:QF:378:PHE:CE1	2.51	0.46
4:QG:50:ASN:OD1	4:QG:51:THR:N	2.49	0.46
4:QG:311:LYS:NZ	4:QG:343:PHE:O	2.44	0.46
3:QJ:374:ILE:HA	3:QJ:377:LEU:HD13	1.97	0.46
4:QK:93:ILE:HG13	4:QK:118:VAL:HG12	1.98	0.46
4:QK:229:ARG:NH1	4:QK:233:GLN:HB2	2.30	0.46
4:QK:235:VAL:HA	4:QK:238:ILE:HG12	1.98	0.46
3:QL:250:LEU:O	3:QL:254:ALA:N	2.40	0.46
3:RB:36:TYR:CZ	3:RB:38:GLY:HA2	2.51	0.46
3:RB:152:ILE:HD13	3:RB:192:LEU:HD23	1.96	0.46
3:RB:347:ASN:HB3	4:RC:178:SER:HB3	1.97	0.46
4:RC:54:SER:HB2	4:RC:62:VAL:HB	1.98	0.46
4:RC:72:PRO:HA	4:RC:75:VAL:HG12	1.98	0.46
3:RD:267:MET:SD	3:RD:267:MET:N	2.89	0.46
4:RE:167:LEU:HD13	4:RE:200:CYS:HB2	1.98	0.46
3:RF:2:ARG:HA	3:RF:129:CYS:O	2.16	0.46
3:RF:269:GLY:O	3:RF:367:PHE:N	2.43	0.46
4:RG:113:GLU:N	4:RG:113:GLU:OE1	2.48	0.46
4:RG:362:VAL:HA	4:RG:368:LEU:HD21	1.97	0.46
4:RI:72:PRO:HA	4:RI:75:VAL:HG12	1.97	0.46
4:RI:351:PHE:HE2	3:RJ:175:VAL:HG21	1.81	0.46
3:SB:246:LEU:HB3	3:SB:353:VAL:O	2.16	0.46
4:SE:154:MET:HE1	4:SE:197:HIS:HB2	1.98	0.46
4:SE:260:VAL:O	3:SF:397:TRP:HH2	1.99	0.46
3:SJ:345:ILE:HD12	3:SJ:346:PRO:HD2	1.98	0.46
4:SK:3:GLU:CD	4:SK:132:LEU:H	2.24	0.46
4:SK:409:VAL:HA	4:SK:413:MET:H	1.81	0.46
32:T:284:PRO:HG3	32:T:290:GLU:HA	1.97	0.46
3:TD:173:PRO:O	3:TD:380:ARG:NH2	2.49	0.46
4:TE:384:ILE:HB	4:TE:388:TRP:HZ3	1.81	0.46
3:TH:20:PHE:CZ	3:TH:24:ILE:HD11	2.51	0.46
4:TK:89:PRO:HD2	4:UI:280:LYS:HZ3	1.79	0.46
4:TK:287:SER:N	4:TK:290:GLU:OE2	2.49	0.46
33:U:313:ALA:O	33:U:317:ARG:NH1	2.49	0.46
4:UA:188:ILE:HG22	4:UA:421:ALA:HB1	1.97	0.46
4:UA:257:THR:HA	3:UB:397:TRP:CZ2	2.51	0.46
3:UB:421:GLU:OE2	3:UB:425:TYR:HE2	1.99	0.46
4:UC:216:ASN:OD1	4:UC:217:LEU:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UE:129:CYS:SG	4:UE:132:LEU:HD12	2.56	0.46
4:UE:311:LYS:HE3	4:UE:344:VAL:HA	1.97	0.46
4:UE:352:LYS:HZ2	3:UF:178:THR:HA	1.80	0.46
3:UF:40:SER:HB2	3:UF:43:GLN:CD	2.41	0.46
4:UG:6:SER:HB3	4:UG:65:ALA:HB2	1.98	0.46
4:UI:216:ASN:ND2	4:UI:275:VAL:O	2.49	0.46
3:UJ:32:PRO:C	3:UJ:83:GLN:HE21	2.24	0.46
4:UK:2:ARG:HA	4:UK:133:GLN:HE22	1.81	0.46
4:UK:319:TYR:N	4:UK:354:GLY:O	2.49	0.46
3:UL:150:LEU:O	3:UL:153:SER:OG	2.29	0.46
4:VA:301:GLN:OE1	4:VA:301:GLN:N	2.49	0.46
4:VA:417:GLU:O	4:VA:420:GLU:HG2	2.16	0.46
3:VB:65:LEU:HD21	3:VB:73:MET:HG2	1.98	0.46
3:VB:318:ARG:HB3	3:VB:364:SER:OG	2.17	0.46
3:VB:347:ASN:HB3	4:VC:178:SER:HB3	1.98	0.46
4:VC:192:HIS:CE1	4:VC:193:THR:HG23	2.51	0.46
3:VD:246:LEU:HD22	3:VD:354:CYS:HA	1.97	0.46
3:VD:256:ASN:O	3:VD:257:MET:HE2	2.16	0.46
3:VH:375:GLN:HA	3:VH:378:PHE:CZ	2.50	0.46
3:VJ:47:ILE:HG13	3:VJ:51:TYR:HB2	1.97	0.46
3:VJ:172:SER:OG	3:VJ:205:GLU:OE2	2.19	0.46
3:VL:130:LEU:HB2	3:VL:162:ARG:HH11	1.81	0.46
33:W:144:ILE:HA	33:W:147:LYS:HE3	1.97	0.46
33:W:237:ARG:O	33:W:241:GLN:HG2	2.16	0.46
3:WB:2:ARG:HB3	3:WB:131:GLN:NE2	2.30	0.46
3:WB:47:ILE:HG21	3:WB:59:TYR:CZ	2.51	0.46
3:WB:216:LYS:HB3	3:WB:276:ARG:NH2	2.30	0.46
3:WB:316:VAL:HG22	3:WB:352:ALA:HB3	1.97	0.46
4:WC:119:LEU:HA	4:WC:122:ILE:HD12	1.98	0.46
4:WC:141:PHE:HB2	4:WC:173:PRO:HD3	1.96	0.46
4:WC:196:GLU:HG2	4:WC:197:HIS:ND1	2.30	0.46
3:WD:101:TRP:CE3	3:WD:187:LEU:HD13	2.52	0.46
3:WF:290:THR:HG21	3:WF:329:GLN:HB3	1.97	0.46
4:WG:30:ILE:HG13	4:WG:53:PHE:HE2	1.81	0.46
3:WH:54:ALA:HB3	3:WH:58:LYS:HG3	1.97	0.46
3:WJ:3:GLU:OE2	3:WJ:127:CYS:HB2	2.16	0.46
3:WJ:101:TRP:HB2	3:WJ:184:ASN:HD22	1.80	0.46
4:WK:319:TYR:N	4:WK:354:GLY:O	2.49	0.46
4:WK:424:ASP:O	4:WK:428:LEU:HG	2.16	0.46
33:X:454:ARG:HA	33:X:454:ARG:HD2	1.78	0.46
34:XA:98:ASN:O	34:XA:100:ARG:NH1	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:XB:30:ARG:O	34:XB:57:THR:OG1	2.35	0.46
34:XB:96:ASP:N	34:XB:96:ASP:OD1	2.48	0.46
35:XI:58:LYS:O	35:XI:62:ARG:HG3	2.15	0.46
35:XK:65:PHE:HA	35:XK:66:PRO:HD3	1.83	0.46
36:Y:121:GLU:HA	36:Y:124:LYS:HB2	1.98	0.46
37:YD:80:CYS:O	37:YD:101:LYS:NZ	2.49	0.46
37:YD:86:LEU:HB3	37:YD:87:HIS:H	1.53	0.46
37:YF:154:HIS:CD2	37:YF:157:LYS:HB2	2.49	0.46
37:YG:141:ILE:HB	37:YG:142:PRO:HD3	1.97	0.46
37:YH:16:LYS:HA	37:YH:19:GLN:HG2	1.98	0.46
37:YH:47:GLU:HA	37:YH:50:GLN:OE1	2.16	0.46
37:YH:68:MET:O	37:YH:72:ILE:HG13	2.16	0.46
37:YK:3:GLU:HA	37:YK:6:GLU:HB3	1.98	0.46
37:YL:98:GLU:HA	37:YL:101:LYS:HD2	1.98	0.46
37:YM:137:VAL:HG13	37:YM:138:VAL:HG13	1.99	0.46
37:YP:137:VAL:HG13	37:YP:138:VAL:HG13	1.98	0.46
37:YT:112:SER:HA	37:YT:135:GLY:HA3	1.97	0.46
37:YU:72:ILE:HA	37:YU:75:GLU:CD	2.41	0.46
37:YV:68:MET:O	37:YV:72:ILE:HG13	2.16	0.46
37:YV:140:LEU:O	37:YV:144:VAL:HG23	2.16	0.46
36:Z:277:ARG:HH21	36:Z:280:GLU:HG3	1.81	0.46
2:A2:253:LEU:HB3	2:A2:400:ARG:HH21	1.80	0.45
2:A2:326:VAL:HG13	2:A2:326:VAL:O	2.15	0.45
3:AB:378:PHE:CE1	3:AB:419:VAL:HA	2.51	0.45
4:AG:171:ILE:HD12	4:AG:204:VAL:HG13	1.98	0.45
3:AH:170:VAL:N	3:AH:202:ILE:O	2.36	0.45
4:AI:345:ASP:N	4:AI:345:ASP:OD1	2.49	0.45
3:AJ:345:ILE:HD12	3:AJ:346:PRO:HD2	1.97	0.45
3:AJ:375:GLN:HA	3:AJ:378:PHE:CE1	2.51	0.45
4:AK:10:GLY:HA2	4:AK:145:THR:OG1	2.17	0.45
4:AK:145:THR:OG1	39:AK:501:GTP:O1B	2.34	0.45
4:AK:176:GLN:NE2	4:AK:207:GLU:OE2	2.49	0.45
5:B1:355:LYS:HZ1	5:B2:41:GLU:C	2.24	0.45
5:B2:118:THR:OG1	8:D4:413:GLU:OE2	2.20	0.45
5:B2:145:GLU:O	5:B2:149:LYS:HG2	2.16	0.45
5:B2:275:PHE:O	5:B2:279:LEU:HG	2.16	0.45
5:B2:389:LYS:HE2	5:B2:389:LYS:HB3	1.83	0.45
5:B6:172:LEU:HD23	5:B6:172:LEU:HA	1.83	0.45
5:B7:70:THR:O	5:B7:73:ARG:HG2	2.16	0.45
3:BB:73:MET:HA	3:BB:76:VAL:HB	1.99	0.45
3:BD:101:TRP:HB2	3:BD:184:ASN:HD22	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BE:47:ASP:O	4:BE:49:PHE:N	2.49	0.45
4:BE:88:HIS:HB3	4:BE:91:GLN:HG2	1.99	0.45
3:BF:42:LEU:HD11	3:BF:356:ILE:HG21	1.98	0.45
3:BF:44:LEU:HD12	15:H3:23:PHE:CE2	2.52	0.45
3:BF:324:LYS:HE2	4:BG:222:PRO:CD	2.45	0.45
4:BG:104:ALA:HA	4:BG:107:HIS:HB3	1.97	0.45
4:BG:216:ASN:HD21	4:BG:275:VAL:HG23	1.80	0.45
4:BG:321:GLY:N	4:BG:356:ASN:O	2.29	0.45
4:BG:357:TYR:CD2	14:G5:209:PRO:HG2	2.51	0.45
4:BK:6:SER:HA	4:BK:136:LEU:HB2	1.98	0.45
4:BK:70:LEU:HG	4:BK:149:PHE:CZ	2.51	0.45
4:BK:115:VAL:HG21	4:BK:156:ARG:HG3	1.98	0.45
4:BK:171:ILE:HD12	4:BK:204:VAL:HG13	1.97	0.45
4:BK:324:VAL:HG21	3:BL:219:THR:HG22	1.98	0.45
3:BL:84:ILE:HA	3:BL:86:ARG:HH22	1.81	0.45
4:BM:165:SER:C	4:BM:166:LYS:HD2	2.41	0.45
7:C2:259:SER:O	7:C2:262:GLN:HG2	2.15	0.45
7:C7:103:ASN:O	7:C7:106:SER:OG	2.32	0.45
3:CB:48:ASN:O	3:CB:62:ARG:NH2	2.34	0.45
3:CB:114:ASP:OD1	3:CB:115:SER:N	2.48	0.45
3:CB:392:LYS:HD2	3:CB:392:LYS:O	2.16	0.45
4:CC:261:PRO:HA	3:CD:394:PHE:CE1	2.51	0.45
4:CE:79:ARG:HD2	15:H2:218:ILE:HB	1.98	0.45
3:CF:12:CYS:O	3:CF:16:ILE:HG12	2.16	0.45
4:CG:235:VAL:HA	4:CG:238:ILE:HG12	1.98	0.45
4:CI:264:ARG:O	4:CI:266:HIS:ND1	2.47	0.45
4:CK:178:SER:OG	4:CK:180:ALA:O	2.34	0.45
4:CM:11:GLN:HG3	39:CM:501:GTP:O1B	2.16	0.45
7:Cc:152:ASP:N	7:Cc:152:ASP:OD1	2.48	0.45
8:D2:102:LYS:HD3	8:D3:376:ARG:HH11	1.81	0.45
8:D2:320:TYR:HA	8:D2:323:ARG:NH1	2.31	0.45
8:D3:91:LEU:O	8:D3:95:THR:HG23	2.16	0.45
8:D5:385:ASN:HB3	8:D5:389:ARG:HH12	1.81	0.45
8:D8:117:LEU:O	8:D8:121:ILE:HG12	2.16	0.45
8:D8:377:LEU:HA	8:D8:380:GLU:CD	2.41	0.45
8:D9:59:ASN:OD1	8:D9:60:SER:N	2.45	0.45
8:D9:157:GLN:O	8:D9:161:ARG:HG2	2.16	0.45
4:DA:192:HIS:CE1	4:DA:193:THR:HG23	2.52	0.45
3:DB:166:THR:OG1	3:DB:198:GLU:O	2.32	0.45
3:DB:392:LYS:HD2	3:DB:392:LYS:O	2.16	0.45
4:DC:329:ASN:OD1	4:DC:330:ALA:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DD:317:PHE:HE2	3:DD:326:VAL:HG23	1.81	0.45
4:DE:271:THR:HB	4:DE:377:MET:HE3	1.98	0.45
4:DE:312:TYR:HE2	4:DE:341:ILE:HD11	1.81	0.45
3:DF:343:GLU:N	3:DF:343:GLU:OE1	2.49	0.45
4:DG:81:GLY:O	4:DG:84:ARG:NH1	2.50	0.45
4:DG:252:LEU:O	4:DG:256:GLN:N	2.39	0.45
4:DG:272:TYR:HE1	4:DG:374:ALA:HB1	1.81	0.45
4:DI:76:ASP:OD1	4:DI:79:ARG:NH2	2.49	0.45
3:DJ:406:MET:O	3:DJ:409:THR:OG1	2.24	0.45
4:DK:175:PRO:HB3	4:DK:390:ARG:CZ	2.46	0.45
4:EA:139:HIS:O	4:EA:170:ALA:HA	2.16	0.45
4:EC:89:PRO:HD2	4:FC:280:LYS:HZ3	1.81	0.45
4:EC:320:ARG:HG2	4:EC:358:GLN:O	2.16	0.45
3:ED:209:ASP:O	3:ED:213:ARG:N	2.48	0.45
4:EE:105:ARG:O	4:EE:109:THR:OG1	2.20	0.45
3:EF:101:TRP:CE3	3:EF:187:LEU:HD13	2.51	0.45
3:EF:305:PRO:HA	3:EF:373:ALA:HB2	1.97	0.45
4:EG:196:GLU:HG2	4:EG:197:HIS:ND1	2.31	0.45
3:EH:120:VAL:O	3:EH:124:ALA:N	2.47	0.45
4:EI:35:GLN:HG2	4:EI:59:GLY:O	2.16	0.45
4:EI:311:LYS:HE3	4:EI:344:VAL:HG12	1.98	0.45
3:EJ:250:LEU:HD13	3:EJ:253:LEU:HD12	1.98	0.45
3:EJ:328:GLU:OE1	3:EJ:332:ASN:ND2	2.48	0.45
4:EK:171:ILE:HD12	4:EK:204:VAL:HG13	1.97	0.45
3:EL:12:CYS:HA	39:EL:501:GTP:N2	2.31	0.45
11:F1:161:ASP:O	11:F1:165:THR:HG23	2.16	0.45
11:F1:343:PHE:CZ	11:F1:347:ILE:HD11	2.51	0.45
11:F1:406:GLU:OE1	11:F1:406:GLU:N	2.32	0.45
11:F1:443:LEU:O	11:F1:447:THR:HG23	2.15	0.45
11:F2:263:ILE:HA	11:F2:266:ASN:HD21	1.80	0.45
11:F3:88:CYS:O	14:G5:560:ARG:NH1	2.46	0.45
11:F3:393:GLN:NE2	11:F4:279:PHE:HA	2.31	0.45
11:F4:89:ARG:HH12	11:F4:91:THR:HG22	1.81	0.45
11:F4:125:GLN:HG2	11:F4:129:GLN:HE22	1.80	0.45
11:F6:226:GLN:O	11:F6:229:MET:HG2	2.16	0.45
11:F7:424:ASP:OD1	11:F7:425:ASP:N	2.49	0.45
11:F8:200:LYS:O	11:F8:202:ILE:HG12	2.16	0.45
3:FB:319:GLY:N	3:FB:321:MET:HE1	2.31	0.45
3:FD:2:ARG:HB3	3:FD:131:GLN:CD	2.40	0.45
3:FD:52:ASN:ND2	3:FD:62:ARG:HD3	2.31	0.45
3:FD:375:GLN:HA	3:FD:378:PHE:CE1	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FF:276:ARG:CZ	14:G5:476:ALA:HB2	2.46	0.45
4:FG:107:HIS:CD2	4:FG:152:LEU:HB2	2.51	0.45
4:FI:271:THR:O	4:FI:377:MET:N	2.26	0.45
3:FJ:188:SER:O	3:FJ:192:LEU:HG	2.16	0.45
3:FL:284:LEU:HD11	3:FL:362:LYS:HZ3	1.81	0.45
11:Fa:334:LYS:HD2	11:Fa:334:LYS:HA	1.83	0.45
11:Fb:429:THR:HA	11:Fb:432:LEU:HD12	1.98	0.45
11:Ff:93:ARG:O	11:Ff:97:ARG:HG2	2.16	0.45
11:Fg:220:ASP:O	11:Fg:223:LYS:HG3	2.15	0.45
11:Fh:186:CYS:HA	11:Fh:189:GLN:NE2	2.31	0.45
11:Fl:205:ASP:O	11:Fl:206:LEU:HD22	2.17	0.45
11:Fl:443:LEU:O	11:Fl:447:THR:HG23	2.16	0.45
12:G:148:PHE:O	12:G:151:GLU:HG2	2.15	0.45
13:G3:193:PHE:O	13:G3:197:GLN:HG2	2.16	0.45
14:G4:387:GLU:HG3	14:G4:388:ARG:H	1.81	0.45
14:G5:658:ILE:HD12	14:G5:658:ILE:H	1.81	0.45
14:G6:286:LYS:NZ	14:G6:337:ASP:OD2	2.48	0.45
4:GA:1:MET:O	4:GA:131:GLY:HA3	2.16	0.45
4:GA:88:HIS:HE1	4:GA:90:GLU:CD	2.24	0.45
3:GD:2:ARG:HB2	3:GD:131:GLN:NE2	2.31	0.45
3:GD:426:GLN:NE2	3:GD:427:ASP:HB2	2.31	0.45
4:GE:326:LYS:NZ	3:GF:220:PRO:O	2.48	0.45
3:GH:324:LYS:NZ	4:GI:222:PRO:O	2.34	0.45
3:GJ:12:CYS:HB3	39:GJ:501:GTP:H5'	1.99	0.45
4:GK:260:VAL:HG23	4:GK:265:ILE:O	2.16	0.45
4:GK:319:TYR:O	4:GK:356:ASN:N	2.41	0.45
3:GL:235:GLY:O	3:GL:238:THR:OG1	2.24	0.45
15:H2:218:ILE:HD11	15:H2:221:TYR:HD1	1.80	0.45
15:H4:310:LYS:HA	15:H4:313:ASP:OD2	2.16	0.45
4:HA:2:ARG:HG3	4:HA:2:ARG:O	2.16	0.45
4:HA:201:ALA:H	4:HA:266:HIS:HD2	1.64	0.45
3:HB:376:GLU:HA	3:HB:379:LYS:HB3	1.98	0.45
4:HC:10:GLY:O	4:HC:14:VAL:HG13	2.17	0.45
4:HC:160:ASP:OD1	4:HC:161:TYR:N	2.49	0.45
4:HC:327:ASP:OD1	4:HC:328:VAL:N	2.50	0.45
3:HD:252:LYS:CD	4:HE:100:ALA:HA	2.46	0.45
4:HE:210:TYR:OH	4:HE:221:ARG:NH2	2.49	0.45
4:HE:240:ALA:HA	4:HE:243:ARG:HB2	1.97	0.45
3:HH:51:TYR:CD1	3:HH:61:PRO:HA	2.50	0.45
3:HH:295:ASP:HB2	3:HH:298:ASN:HB2	1.99	0.45
4:HI:1:MET:O	4:HI:133:GLN:NE2	2.39	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HI:349:THR:HG23	3:HJ:179:VAL:HG12	1.98	0.45
4:HK:22:GLU:O	4:HK:26:LEU:HD23	2.16	0.45
4:HK:206:ASN:HB2	4:HK:210:TYR:CE2	2.51	0.45
3:HL:103:LYS:O	3:HL:108:GLU:N	2.34	0.45
16:I:201:TRP:CG	3:LF:276:ARG:HB2	2.52	0.45
3:IB:293:MET:HA	3:IB:298:ASN:HD22	1.81	0.45
4:IC:331:ALA:O	4:IC:335:ILE:HG12	2.16	0.45
3:IF:83:GLN:O	3:IF:86:ARG:NH2	2.49	0.45
4:IG:208:ALA:N	4:IG:304:LYS:HZ1	2.12	0.45
3:IH:269:GLY:HA3	3:IH:367:PHE:HB3	1.99	0.45
3:IH:357:PRO:HB3	3:IH:362:LYS:O	2.15	0.45
4:II:196:GLU:OE1	4:II:196:GLU:N	2.41	0.45
4:IM:7:ILE:N	4:IM:136:LEU:O	2.27	0.45
18:J:142:TYR:HE1	18:J:144:LEU:HB3	1.81	0.45
3:JB:289:LEU:O	3:JB:293:MET:N	2.41	0.45
3:JD:3:GLU:OE2	3:JD:127:CYS:HB2	2.15	0.45
3:JD:99:ASN:OD1	3:JD:142:GLY:HA3	2.16	0.45
4:JE:363:VAL:HG13	4:JE:366:GLY:HA3	1.98	0.45
4:JE:415:GLU:HA	4:JE:418:PHE:HD2	1.82	0.45
3:JF:282:ARG:HE	3:JF:288:GLU:CD	2.24	0.45
3:JH:317:PHE:HB3	3:JH:321:MET:HE3	1.98	0.45
3:JH:389:PHE:CZ	3:JH:405:GLU:HB2	2.52	0.45
3:JH:394:PHE:HA	3:JH:397:TRP:HZ3	1.81	0.45
3:JH:398:TYR:HB3	3:JH:403:MET:HB2	1.98	0.45
4:JI:2:ARG:HA	4:JI:133:GLN:NE2	2.30	0.45
4:JI:16:ILE:HD11	4:JI:138:PHE:HB3	1.98	0.45
4:JI:88:HIS:CE1	4:KI:280:LYS:HZ1	2.34	0.45
3:JL:172:SER:OG	3:JL:205:GLU:OE2	2.21	0.45
20:K:224:HIS:CE1	20:K:226:HIS:HB3	2.51	0.45
20:K:224:HIS:NE2	20:K:226:HIS:HB3	2.30	0.45
21:K1:391:GLU:OE1	21:K1:391:GLU:N	2.49	0.45
21:K1:402:GLN:C	21:K1:405:VAL:H	2.17	0.45
21:K2:108:ARG:HB3	21:K2:109:LEU:H	1.59	0.45
21:K3:187:LYS:HG3	21:K3:188:CYS:N	2.25	0.45
21:K4:281:PRO:HG2	21:K4:289:TYR:HB2	1.98	0.45
21:K4:424:ARG:O	21:K4:428:HIS:ND1	2.49	0.45
4:KA:52:PHE:CZ	4:KA:239:THR:HB	2.50	0.45
4:KA:371:VAL:HG11	4:KA:374:ALA:HB2	1.97	0.45
4:KC:89:PRO:HD2	4:LC:280:LYS:NZ	2.30	0.45
4:KE:260:VAL:HG23	4:KE:265:ILE:O	2.15	0.45
3:KF:2:ARG:HB3	3:KF:131:GLN:NE2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KF:306:ARG:O	3:KF:306:ARG:NE	2.45	0.45
3:KJ:5:VAL:HB	3:KJ:133:PHE:CE1	2.51	0.45
3:KJ:318:ARG:HD3	3:KJ:358:PRO:HG3	1.96	0.45
4:KK:122:ILE:O	4:KK:126:ALA:N	2.42	0.45
20:L:31:GLU:O	20:L:35:LYS:HG2	2.16	0.45
20:L:269:LEU:O	20:L:269:LEU:HD12	2.16	0.45
22:L2:163:GLU:O	22:L2:167:LYS:HB2	2.17	0.45
22:L2:220:SER:HA	4:VE:44:GLY:N	2.26	0.45
22:L3:80:ARG:HG2	22:L3:81:CYS:H	1.81	0.45
4:LA:375:VAL:HG13	4:LA:377:MET:SD	2.56	0.45
3:LB:67:ASP:HA	3:LB:147:MET:HE1	1.98	0.45
3:LB:204:ASN:HA	3:LB:207:LEU:HD12	1.96	0.45
4:LC:51:THR:HG23	4:LC:52:PHE:CD2	2.51	0.45
4:LC:185:TYR:CZ	4:LC:398:MET:HE1	2.50	0.45
4:LC:319:TYR:HB2	4:LC:355:ILE:HD13	1.97	0.45
4:LE:254:GLU:OE1	4:LE:254:GLU:N	2.41	0.45
4:LE:287:SER:H	4:LE:290:GLU:CD	2.24	0.45
3:LF:32:PRO:O	3:LF:83:GLN:NE2	2.44	0.45
4:LG:189:LEU:HA	4:LG:192:HIS:HD1	1.81	0.45
4:LG:408:TYR:HD2	4:LG:418:PHE:HZ	1.63	0.45
3:LH:247:ASN:HB3	3:LH:252:LYS:HG2	1.96	0.45
4:LI:165:SER:C	4:LI:166:LYS:HD2	2.41	0.45
4:LI:316:CYS:HB3	4:LI:378:LEU:HB2	1.98	0.45
3:LJ:152:ILE:O	3:LJ:156:ARG:HG2	2.16	0.45
3:LJ:374:ILE:HD12	3:LJ:374:ILE:H	1.80	0.45
4:LK:117:LEU:O	4:LK:121:ARG:HG2	2.17	0.45
4:MC:22:GLU:O	4:MC:26:LEU:HD23	2.15	0.45
3:MD:19:LYS:NZ	3:MD:227:HIS:HB2	2.31	0.45
3:MF:68:LEU:HD12	3:MF:97:ALA:HB2	1.97	0.45
3:MF:274:THR:HB	3:MF:279:GLN:HE21	1.81	0.45
4:MG:75:VAL:HG23	4:MG:92:LEU:HD12	1.97	0.45
4:MG:211:ASP:O	4:MG:214:ARG:NH1	2.49	0.45
4:MG:285:GLN:NE2	4:MG:286:LEU:O	2.49	0.45
4:MG:287:SER:OG	4:MG:290:GLU:OE1	2.30	0.45
4:MG:317:MET:HE1	4:MG:351:PHE:HB3	1.98	0.45
3:MH:174:LYS:HG2	3:MH:205:GLU:OE2	2.16	0.45
4:MI:12:ALA:O	39:MI:501:GTP:N1	2.49	0.45
4:MI:306:ASP:HB3	4:MI:309:HIS:CE1	2.51	0.45
4:MK:228:ASN:HA	4:MK:231:ILE:HG12	1.98	0.45
3:ML:120:VAL:O	3:ML:124:ALA:N	2.45	0.45
3:ML:190:HIS:ND1	3:ML:411:ALA:HA	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ML:216:LYS:HB2	3:ML:276:ARG:NH1	2.29	0.45
3:ML:306:ARG:HH12	3:ML:340:TYR:HE2	1.63	0.45
3:ML:317:PHE:HB3	3:ML:321:MET:HE3	1.97	0.45
4:MM:107:HIS:CD2	4:MM:152:LEU:HB2	2.51	0.45
26:N3:159:ARG:HB2	26:N3:162:ASP:HA	1.98	0.45
4:NA:22:GLU:O	4:NA:26:LEU:HD23	2.16	0.45
4:NA:427:ALA:HA	4:NA:430:LYS:HG2	1.98	0.45
3:NB:12:CYS:HA	39:NB:501:GTP:N2	2.30	0.45
3:NB:305:PRO:HB2	3:NB:310:TYR:HE1	1.81	0.45
3:NB:330:MET:HG3	3:NB:349:VAL:HG11	1.98	0.45
4:NC:319:TYR:HB2	4:NC:355:ILE:HD13	1.99	0.45
3:ND:173:PRO:O	3:ND:380:ARG:NH2	2.50	0.45
4:NE:119:LEU:HB3	4:NE:123:ARG:NH2	2.31	0.45
4:NE:196:GLU:HG2	4:NE:197:HIS:ND1	2.31	0.45
4:NG:11:GLN:NE2	39:NG:501:GTP:O3A	2.49	0.45
4:NG:135:PHE:HD2	4:NG:166:LYS:HG3	1.80	0.45
4:NG:216:ASN:OD1	4:NG:217:LEU:N	2.49	0.45
3:NJ:32:PRO:C	3:NJ:83:GLN:HE21	2.24	0.45
4:NK:104:ALA:HB1	4:NK:108:TYR:HD2	1.81	0.45
3:NL:12:CYS:SG	3:NL:13:GLY:N	2.89	0.45
3:NL:158:GLU:OE1	3:NL:158:GLU:N	2.43	0.45
4:OE:346:TRP:CH2	4:OE:435:VAL:HA	2.51	0.45
4:OI:288:VAL:HG21	4:OI:328:VAL:HG22	1.98	0.45
3:OJ:239:CYS:SG	3:OJ:316:VAL:HG11	2.57	0.45
3:OL:97:ALA:O	3:OL:103:LYS:HE2	2.16	0.45
29:P2:193:LYS:NZ	4:VG:35:GLN:OE1	2.45	0.45
29:P2:492:ARG:NH1	29:P2:494:ARG:HB2	2.31	0.45
29:P3:562:THR:OG1	29:P3:572:TRP:NE1	2.45	0.45
4:PA:154:MET:HA	4:PA:157:LEU:HG	1.97	0.45
3:PB:87:PRO:HA	3:PB:90:PHE:CD2	2.51	0.45
4:PC:260:VAL:O	3:PD:397:TRP:HH2	1.99	0.45
4:PG:76:ASP:OD1	4:PG:79:ARG:NH1	2.49	0.45
4:PG:90:GLU:HG2	4:PG:121:ARG:NH2	2.31	0.45
4:PI:47:ASP:HB3	4:PI:49:PHE:CE2	2.51	0.45
4:PK:119:LEU:HD23	4:PK:122:ILE:HD12	1.99	0.45
3:PL:388:MET:O	3:PL:391:ARG:NH1	2.50	0.45
30:Q1:1342:GLU:HA	30:Q1:1345:ARG:HE	1.80	0.45
30:Q3:1357:THR:HB	30:Q3:1396:TYR:CD2	2.51	0.45
3:QB:379:LYS:HE2	3:QB:379:LYS:HA	1.98	0.45
4:QC:260:VAL:HG23	4:QC:265:ILE:O	2.16	0.45
3:QD:258:VAL:HB	4:QE:407:TRP:HZ2	1.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QD:380:ARG:O	3:QD:384:GLN:HG2	2.15	0.45
4:QG:196:GLU:HG2	4:QG:197:HIS:ND1	2.30	0.45
3:QH:269:GLY:O	3:QH:367:PHE:N	2.36	0.45
3:QH:319:GLY:N	3:QH:321:MET:HE1	2.32	0.45
4:QK:196:GLU:HG2	4:QK:197:HIS:ND1	2.31	0.45
3:RB:9:ALA:HB1	3:RB:147:MET:SD	2.57	0.45
3:RD:392:LYS:HD2	3:RD:392:LYS:O	2.15	0.45
4:RE:72:PRO:HA	4:RE:75:VAL:HG12	1.97	0.45
4:RG:11:GLN:HG3	39:RG:501:GTP:O1B	2.16	0.45
3:RH:252:LYS:O	3:RH:256:ASN:ND2	2.49	0.45
4:RI:1:MET:O	4:RI:131:GLY:HA3	2.16	0.45
4:RI:1:MET:HE3	4:RI:50:ASN:ND2	2.31	0.45
4:RK:255:PHE:O	4:RK:259:LEU:HB2	2.16	0.45
4:RK:298:PRO:HG3	4:RK:308:ARG:HH22	1.82	0.45
4:RM:2:ARG:HA	4:RM:133:GLN:NE2	2.31	0.45
4:RM:397:LEU:HD12	4:RM:398:MET:N	2.32	0.45
3:SB:305:PRO:HA	3:SB:373:ALA:HB2	1.96	0.45
4:SC:12:ALA:HB1	39:SC:501:GTP:C2	2.51	0.45
4:SC:117:LEU:O	4:SC:121:ARG:HG2	2.16	0.45
4:SC:139:HIS:NE2	4:SC:170:ALA:HB2	2.31	0.45
4:SC:384:ILE:HD12	4:SC:388:TRP:CZ3	2.51	0.45
3:SD:99:ASN:OD1	3:SD:142:GLY:HA3	2.16	0.45
4:SG:55:GLU:HA	4:SG:60:LYS:O	2.16	0.45
3:SH:151:LEU:HD22	3:SH:154:LYS:HZ1	1.80	0.45
3:SH:269:GLY:N	3:SH:367:PHE:O	2.49	0.45
4:SI:10:GLY:O	4:SI:14:VAL:HG13	2.16	0.45
3:SJ:152:ILE:HD13	3:SJ:192:LEU:HD23	1.99	0.45
3:SJ:211:CYS:HA	3:SJ:215:LEU:HB2	1.98	0.45
3:SJ:392:LYS:HD2	3:SJ:392:LYS:O	2.17	0.45
3:SL:52:ASN:CG	3:SL:62:ARG:HD3	2.41	0.45
4:TE:385:ALA:HB2	4:TE:432:TYR:HD2	1.79	0.45
4:TI:165:SER:C	4:TI:166:LYS:HD2	2.40	0.45
3:TJ:3:GLU:OE1	3:TJ:3:GLU:N	2.49	0.45
3:TL:139:LEU:N	3:TL:168:SER:OG	2.49	0.45
4:TM:388:TRP:HB3	4:TM:425:LEU:HD11	1.99	0.45
3:TN:197:ASP:OD1	3:TN:198:GLU:N	2.49	0.45
33:U:182:LYS:HA	33:U:185:MET:HE2	1.98	0.45
33:U:424:ARG:O	33:U:427:GLN:HG3	2.15	0.45
33:U:437:VAL:O	33:U:441:ARG:HG3	2.15	0.45
33:U:491:GLN:HA	33:U:494:LEU:HB2	1.96	0.45
4:UE:22:GLU:O	4:UE:26:LEU:HD23	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UE:208:ALA:H	4:UE:304:LYS:HZ1	1.61	0.45
4:UG:5:ILE:HB	4:UG:135:PHE:HD1	1.81	0.45
3:UH:268:PRO:HD2	3:UH:301:ALA:HB2	1.98	0.45
4:UI:430:LYS:HG3	4:UI:431:ASP:N	2.31	0.45
3:UJ:266:PHE:HB3	3:UJ:368:ILE:HD11	1.98	0.45
3:UJ:412:GLU:O	3:UJ:415:MET:HG3	2.15	0.45
3:UL:11:GLN:HG3	39:UL:501:GTP:PA	2.56	0.45
3:UL:52:ASN:ND2	3:UL:62:ARG:HD3	2.31	0.45
4:VA:414:GLU:HG2	4:VA:417:GLU:OE1	2.16	0.45
3:VD:305:PRO:HA	3:VD:373:ALA:HB2	1.98	0.45
4:VE:417:GLU:O	4:VE:420:GLU:HG2	2.16	0.45
4:VG:99:ALA:HB3	4:VG:144:GLY:O	2.17	0.45
4:VG:368:LEU:HD23	4:VG:368:LEU:H	1.81	0.45
4:VI:101:ASN:HB3	4:VI:182:VAL:HG11	1.98	0.45
4:VI:272:TYR:CZ	4:VI:274:PRO:HG2	2.51	0.45
3:VJ:19:LYS:NZ	3:VJ:223:GLY:O	2.45	0.45
4:VK:113:GLU:OE1	4:VK:113:GLU:N	2.49	0.45
4:VK:119:LEU:HA	4:VK:122:ILE:HG12	1.97	0.45
3:VL:21:TRP:CZ2	3:VL:63:ALA:HB2	2.51	0.45
3:VL:65:LEU:HD21	3:VL:73:MET:HG2	1.96	0.45
33:W:132:LYS:HD3	33:W:135:LYS:HE2	1.98	0.45
33:W:307:GLU:O	33:W:311:MET:HG2	2.15	0.45
33:W:381:ASP:HB2	33:W:385:GLU:HB2	1.98	0.45
4:WC:324:VAL:HG11	3:WD:219:THR:HB	1.97	0.45
3:WD:332:ASN:O	3:WD:336:LYS:N	2.48	0.45
4:WE:213:CYS:O	4:WE:218:ASP:N	2.50	0.45
3:WF:101:TRP:CE3	3:WF:187:LEU:HD13	2.51	0.45
3:WH:132:GLY:HA3	3:WH:163:ILE:H	1.81	0.45
3:WJ:13:GLY:HA2	3:WJ:16:ILE:HB	1.99	0.45
4:WK:11:GLN:O	4:WK:14:VAL:HG22	2.16	0.45
34:XB:27:LYS:HE3	34:XB:57:THR:HG22	1.97	0.45
34:XE:92:GLN:HB3	34:XE:153:ARG:HG3	1.97	0.45
34:XF:76:LEU:HD13	34:XF:167:PHE:CE1	2.51	0.45
34:XG:168:SER:HB2	34:XG:172:TYR:CE1	2.51	0.45
35:XI:129:VAL:HG12	35:XI:133:LEU:HD21	1.98	0.45
35:XJ:140:ALA:HA	35:XJ:143:LEU:HG	1.97	0.45
35:XM:72:ASP:OD2	35:XM:77:LYS:HG2	2.16	0.45
36:Y:209:ALA:O	36:Y:213:LEU:HG	2.16	0.45
37:YB:45:SER:HB3	37:YB:48:GLN:OE1	2.16	0.45
37:YB:137:VAL:HG13	37:YB:138:VAL:HG13	1.97	0.45
37:YD:125:LEU:HD13	37:YD:134:TYR:HB3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:YG:14:LYS:HE3	37:YG:72:ILE:HG12	1.98	0.45
37:YG:97:LEU:HB2	37:YG:151:TRP:HZ3	1.82	0.45
37:YI:50:GLN:CD	37:YI:50:GLN:H	2.24	0.45
37:YM:32:CYS:HA	37:YM:56:TYR:CE1	2.52	0.45
37:YR:45:SER:HB3	37:YR:48:GLN:OE1	2.15	0.45
37:YW:65:ILE:HA	37:YW:68:MET:HE1	1.98	0.45
2:A1:294:LYS:O	2:A1:297:MET:HG3	2.16	0.45
2:A2:18:ILE:O	2:A2:21:LYS:HG3	2.17	0.45
2:A2:162:ARG:HH22	13:G1:199:ILE:HG13	1.81	0.45
2:A2:282:LEU:HD13	2:A2:372:LEU:HD22	1.98	0.45
2:A3:90:ASP:O	2:A3:93:THR:OG1	2.32	0.45
3:AB:46:ARG:HH22	4:AC:73:THR:HG23	1.80	0.45
4:AC:211:ASP:O	4:AC:214:ARG:NH1	2.49	0.45
3:AD:200:TYR:HB3	3:AD:202:ILE:HD11	1.96	0.45
3:AF:250:LEU:O	3:AF:254:ALA:N	2.33	0.45
3:AF:305:PRO:HA	3:AF:373:ALA:HB2	1.97	0.45
3:AF:322:SER:OG	3:AF:323:MET:SD	2.74	0.45
4:AG:81:GLY:O	4:AG:84:ARG:NH1	2.49	0.45
3:AH:39:ASP:OD1	3:AH:39:ASP:N	2.48	0.45
3:AH:91:VAL:HG11	3:AH:116:VAL:HG12	1.98	0.45
3:AH:152:ILE:HD12	3:AH:195:ASN:HB2	1.98	0.45
3:AJ:130:LEU:HD13	3:AJ:133:PHE:CE1	2.51	0.45
4:AK:318:LEU:O	4:AK:375:VAL:HA	2.15	0.45
4:AK:414:GLU:HG2	4:AK:417:GLU:OE1	2.16	0.45
3:AL:350:LYS:HE3	4:AM:180:ALA:HA	1.99	0.45
4:AM:178:SER:OG	4:AM:180:ALA:O	2.34	0.45
5:B2:120:ARG:HH11	5:B2:120:ARG:HG2	1.81	0.45
5:B2:125:ASP:CG	5:B2:126:ILE:H	2.23	0.45
5:B2:412:THR:OG1	10:E3:57:ASP:OD1	2.22	0.45
5:B3:316:THR:HG21	5:B4:199:ILE:HA	1.97	0.45
5:B6:78:LEU:HD13	5:B6:179:LYS:NZ	2.31	0.45
5:B6:168:ILE:O	5:B6:171:GLN:NE2	2.49	0.45
5:B7:12:TYR:CE2	5:B8:129:VAL:HG22	2.51	0.45
5:B7:223:ARG:O	5:B7:226:LYS:HG2	2.17	0.45
5:B8:69:ASP:HA	5:B8:72:ASN:ND2	2.31	0.45
5:B9:305:ARG:HA	5:B9:308:MET:HE3	1.98	0.45
3:BB:2:ARG:HA	3:BB:129:CYS:O	2.15	0.45
3:BB:130:LEU:HB2	3:BB:162:ARG:HH11	1.81	0.45
4:BE:167:LEU:HB3	4:BE:169:PHE:CZ	2.51	0.45
3:BH:378:PHE:CD1	3:BH:419:VAL:HG22	2.52	0.45
3:BH:415:MET:O	3:BH:419:VAL:HG23	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BL:216:LYS:HB3	3:BL:276:ARG:CZ	2.46	0.45
3:BL:295:ASP:HB2	3:BL:298:ASN:HB2	1.98	0.45
3:BL:410:GLU:HA	3:BL:413:SER:HB3	1.98	0.45
7:C1:149:ARG:HH12	7:C2:412:CYS:HB3	1.80	0.45
7:C3:175:THR:HA	7:C3:178:LYS:NZ	2.31	0.45
7:C4:183:ARG:HH21	7:C4:186:ILE:HD12	1.80	0.45
7:C7:480:TYR:CD1	7:C7:481:PRO:HD2	2.50	0.45
7:C9:413:ARG:HH22	10:E3:114:ARG:C	2.24	0.45
4:CC:346:TRP:HH2	4:CC:435:VAL:HA	1.81	0.45
4:CE:387:ALA:O	4:CE:391:LEU:HG	2.16	0.45
4:CG:317:MET:HB2	4:CG:375:VAL:HG21	1.98	0.45
4:CI:9:VAL:CG2	4:CI:149:PHE:HD2	2.28	0.45
4:CI:22:GLU:O	4:CI:26:LEU:HD23	2.16	0.45
3:CJ:11:GLN:O	3:CJ:14:ASN:HB2	2.16	0.45
3:CL:206:ALA:O	3:CL:210:ILE:HG12	2.16	0.45
4:CM:310:GLY:HA3	4:CM:383:ALA:HB2	1.99	0.45
7:Cb:418:LEU:O	7:Cb:421:VAL:HG22	2.16	0.45
6:D:156:HIS:O	6:D:160:HIS:N	2.50	0.45
6:D:166:ASN:O	6:D:169:ILE:N	2.50	0.45
6:D:268:ILE:HG13	6:D:326:CYS:HA	1.97	0.45
8:D3:431:MET:HA	8:D3:434:ARG:HB2	1.98	0.45
8:D4:156:LEU:HD12	8:D4:176:LEU:HD22	1.98	0.45
8:D4:165:PRO:HG2	8:D4:418:VAL:HG11	1.98	0.45
8:D5:352:VAL:O	8:D5:355:THR:OG1	2.29	0.45
8:D7:177:LEU:O	8:D7:181:GLU:OE1	2.34	0.45
8:D7:185:ASN:HA	8:D7:188:GLU:CD	2.41	0.45
8:D8:71:ARG:O	8:D8:74:SER:OG	2.29	0.45
8:D8:200:GLN:HG3	8:D8:204:ASN:HD21	1.81	0.45
8:D9:220:GLU:O	8:D9:224:ILE:HG13	2.16	0.45
4:DA:280:LYS:O	4:DA:284:GLU:HB2	2.16	0.45
4:DE:116:ASP:N	4:DE:116:ASP:OD1	2.45	0.45
3:DF:52:ASN:OD1	3:DF:62:ARG:NH1	2.49	0.45
4:DG:56:THR:OG1	4:EG:285:GLN:HB2	2.17	0.45
3:DH:113:VAL:HB	3:DH:154:LYS:HE3	1.97	0.45
3:DH:319:GLY:HA2	3:DH:357:PRO:HG3	1.97	0.45
4:DI:22:GLU:O	4:DI:26:LEU:HD23	2.15	0.45
4:DI:311:LYS:NZ	4:DI:343:PHE:O	2.49	0.45
4:DK:124:LYS:HZ3	4:DK:125:LEU:CD2	2.30	0.45
3:DL:150:LEU:O	3:DL:153:SER:OG	2.27	0.45
9:E:385:LEU:O	9:E:385:LEU:HD23	2.16	0.45
9:E:617:LEU:HB2	9:E:621:LEU:HD22	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EB:138:SER:HB3	39:EB:501:GTP:H5"	1.98	0.45
3:ED:113:VAL:HA	3:ED:116:VAL:HG22	1.98	0.45
3:ED:292:GLN:O	3:ED:298:ASN:ND2	2.42	0.45
3:ED:345:ILE:HG23	3:ED:348:ASN:HB3	1.98	0.45
4:EE:213:CYS:O	4:EE:219:ILE:N	2.39	0.45
4:EE:264:ARG:O	4:EE:266:HIS:ND1	2.45	0.45
4:EG:186:ASN:HA	4:EG:189:LEU:HD12	1.97	0.45
3:EH:302:ALA:HB1	3:EH:377:LEU:HD11	1.98	0.45
3:EH:324:LYS:HE2	4:EI:222:PRO:HD2	1.98	0.45
4:EI:40:LYS:HD2	14:G6:716:LYS:HG3	1.98	0.45
4:EK:279:GLU:O	4:EK:283:HIS:HD2	1.98	0.45
3:EL:292:GLN:HA	3:EL:295:ASP:OD2	2.16	0.45
9:F:321:PRO:HA	9:F:324:ALA:O	2.16	0.45
11:F6:147:SER:HB2	11:Fb:136:GLU:OE1	2.16	0.45
11:F7:244:ARG:HH12	11:F7:248:HIS:HB2	1.81	0.45
3:FB:276:ARG:HE	14:G4:474:GLY:HA3	1.81	0.45
3:FD:389:PHE:HZ	3:FD:405:GLU:HB2	1.81	0.45
4:FE:102:ASN:HD22	4:FE:105:ARG:HG3	1.81	0.45
4:FI:76:ASP:OD1	4:FI:79:ARG:NH1	2.49	0.45
3:FJ:324:LYS:HE2	4:FK:222:PRO:CD	2.45	0.45
4:FK:89:PRO:HB2	4:FK:90:GLU:OE1	2.16	0.45
4:FK:140:SER:HB2	4:FK:171:ILE:HG22	1.98	0.45
4:FK:252:LEU:HA	4:FK:255:PHE:CD2	2.50	0.45
3:FL:25:SER:HB2	3:FL:30:ILE:CG2	2.47	0.45
11:Fh:378:LEU:O	11:Fh:382:ILE:HG13	2.15	0.45
11:Fi:163:LEU:HD13	11:Fi:311:ARG:HG3	1.98	0.45
11:Fl:124:MET:HB3	11:Fl:315:ILE:HD12	1.98	0.45
11:Fl:176:ARG:HD3	11:Fl:176:ARG:HA	1.78	0.45
13:G2:331:VAL:HA	13:G2:344:ILE:HG23	1.98	0.45
13:G2:424:ALA:HB2	13:G2:440:PHE:CE1	2.51	0.45
13:G3:418:LYS:HB3	13:G3:444:LEU:HD12	1.98	0.45
14:G5:83:ALA:HB2	14:G5:167:ILE:HD13	1.98	0.45
14:G6:12:ASN:HB3	14:G6:14:ASN:HD21	1.81	0.45
14:G6:657:ASP:HB3	14:G6:661:MET:HE1	1.97	0.45
14:G6:724:MET:HB2	14:G6:725:PRO:HD3	1.98	0.45
4:GC:202:PHE:CE1	4:GC:268:PRO:HD2	2.51	0.45
3:GF:379:LYS:O	3:GF:382:SER:OG	2.16	0.45
4:GG:95:GLY:C	4:GG:96:LYS:HD3	2.40	0.45
3:GH:272:PRO:HA	3:GH:292:GLN:OE1	2.16	0.45
3:GH:410:GLU:HA	3:GH:413:SER:HB3	1.99	0.45
4:GI:172:TYR:N	4:GI:204:VAL:O	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:GI:216:ASN:OD1	4:GI:217:LEU:N	2.49	0.45
4:GK:88:HIS:HB3	4:GK:91:GLN:HG2	1.98	0.45
3:GL:11:GLN:HG3	39:GL:501:GTP:PA	2.57	0.45
3:GL:254:ALA:O	3:GL:258:VAL:N	2.47	0.45
3:GL:254:ALA:HA	3:GL:257:MET:HB3	1.98	0.45
12:H:455:ILE:HD12	12:H:458:GLN:OE1	2.16	0.45
15:H1:307:ALA:HA	15:H1:310:LYS:HG2	1.99	0.45
15:H2:292:MET:O	15:H2:295:ASN:N	2.48	0.45
4:HC:105:ARG:O	4:HC:109:THR:OG1	2.22	0.45
3:HD:6:HIS:HB3	3:HD:21:TRP:HZ2	1.81	0.45
3:HF:70:PRO:O	3:HF:74:ASP:N	2.36	0.45
3:HH:199:THR:N	3:HH:264:HIS:O	2.49	0.45
4:HI:363:VAL:HG13	4:HI:366:GLY:HA3	1.97	0.45
3:HJ:130:LEU:HG	3:HJ:132:GLY:N	2.31	0.45
3:HJ:175:VAL:HG22	3:HJ:177:ASP:H	1.80	0.45
3:HL:309:ARG:O	3:HL:371:SER:OG	2.30	0.45
3:HL:312:THR:HA	3:HL:348:ASN:HB2	1.98	0.45
3:HL:415:MET:O	3:HL:419:VAL:N	2.46	0.45
4:IA:246:GLY:HA3	4:IA:356:ASN:HA	1.98	0.45
3:IB:87:PRO:HG2	4:JA:280:LYS:HZ2	1.81	0.45
3:IB:372:THR:HB	3:IB:375:GLN:HE22	1.81	0.45
4:IE:139:HIS:CD2	4:IE:170:ALA:HB2	2.51	0.45
4:IE:261:PRO:HA	3:IF:394:PHE:CE1	2.51	0.45
3:IF:106:TYR:HB2	3:IF:401:GLU:OE2	2.16	0.45
4:IG:324:VAL:HG21	3:IH:219:THR:HG22	1.97	0.45
4:IG:423:GLU:HA	4:IG:426:ALA:HB3	1.97	0.45
4:II:70:LEU:HA	4:II:95:GLY:HA3	1.98	0.45
3:IJ:42:LEU:O	3:IJ:45:GLU:HB3	2.16	0.45
4:IM:56:THR:HG23	4:IM:58:ALA:H	1.81	0.45
4:IM:235:VAL:HA	4:IM:238:ILE:HG12	1.98	0.45
4:JA:115:VAL:HA	4:JA:118:VAL:HG22	1.97	0.45
4:JA:329:ASN:OD1	4:JA:330:ALA:N	2.49	0.45
4:JC:196:GLU:HG2	4:JC:197:HIS:ND1	2.31	0.45
4:JE:279:GLU:HA	4:JE:282:TYR:CD2	2.51	0.45
4:JE:331:ALA:O	4:JE:334:THR:OG1	2.26	0.45
4:JG:279:GLU:HA	4:JG:282:TYR:HB3	1.98	0.45
4:JG:423:GLU:HA	4:JG:426:ALA:HB3	1.98	0.45
4:JI:166:LYS:N	4:JI:199:ASP:OD2	2.50	0.45
4:JI:263:PRO:HB2	4:JI:264:ARG:NH1	2.31	0.45
4:KA:419:SER:O	4:KA:422:ARG:HG2	2.16	0.45
3:KB:398:TYR:HB3	3:KB:403:MET:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:KE:132:LEU:O	4:KE:132:LEU:HD12	2.16	0.45
4:KE:319:TYR:HB2	4:KE:355:ILE:HD13	1.99	0.45
3:KF:206:ALA:O	3:KF:210:ILE:HG12	2.16	0.45
3:KH:211:CYS:HA	3:KH:215:LEU:HB2	1.98	0.45
3:KH:385:PHE:HZ	3:KH:408:PHE:HB3	1.80	0.45
4:KI:224:TYR:HB3	4:KI:228:ASN:ND2	2.31	0.45
4:KK:115:VAL:HG23	4:KK:153:LEU:HD23	1.98	0.45
4:KK:321:GLY:N	4:KK:356:ASN:O	2.33	0.45
3:KL:246:LEU:HB2	3:KL:352:ALA:HB1	1.96	0.45
22:L1:190:ASP:HA	22:L1:193:ARG:HH11	1.80	0.45
22:L3:234:MET:O	22:L3:238:GLU:HG3	2.16	0.45
4:LA:13:GLY:HA2	4:LA:16:ILE:HG12	1.98	0.45
4:LA:280:LYS:HD2	4:LA:280:LYS:HA	1.74	0.45
4:LA:433:GLU:O	4:LA:437:VAL:N	2.46	0.45
3:LB:224:ASP:HB3	27:Q:141:PHE:HZ	1.81	0.45
3:LD:3:GLU:CD	3:LD:127:CYS:HB2	2.42	0.45
3:LD:111:GLU:OE1	3:LD:111:GLU:N	2.47	0.45
3:LF:11:GLN:HG3	39:LF:501:GTP:PA	2.56	0.45
3:LF:183:TYR:CG	3:LF:388:MET:HE3	2.51	0.45
3:LF:214:THR:HG21	3:LF:273:LEU:HB3	1.98	0.45
3:LF:262:ARG:HA	3:LF:264:HIS:NE2	2.31	0.45
3:LF:331:LEU:HD11	4:LG:176:GLN:OE1	2.16	0.45
4:LG:47:ASP:HB3	4:LG:49:PHE:CE2	2.51	0.45
4:LG:51:THR:HG23	4:LG:52:PHE:HD2	1.79	0.45
4:LI:213:CYS:O	4:LI:218:ASP:N	2.49	0.45
4:LI:349:THR:HG23	3:LJ:179:VAL:HG12	1.97	0.45
3:LJ:226:ASN:HA	3:LJ:229:VAL:HG22	1.98	0.45
3:LL:11:GLN:O	3:LL:15:GLN:NE2	2.49	0.45
4:MC:51:THR:HG23	4:MC:52:PHE:CD2	2.51	0.45
4:MC:408:TYR:HB3	4:MC:413:MET:HE2	1.97	0.45
3:MD:374:ILE:HG22	3:MD:378:PHE:CE2	2.51	0.45
3:MD:386:THR:HG21	28:O1:35:HIS:CD2	2.52	0.45
4:ME:246:GLY:HA3	4:ME:355:ILE:O	2.17	0.45
4:MG:119:LEU:HB3	4:MG:123:ARG:NH2	2.31	0.45
4:MG:202:PHE:HD1	4:MG:268:PRO:HD2	1.82	0.45
3:MH:12:CYS:HA	3:MH:15:GLN:OE1	2.15	0.45
3:MH:192:LEU:O	3:MH:196:THR:HG22	2.16	0.45
3:MJ:246:LEU:HD13	3:MJ:353:VAL:C	2.42	0.45
4:MK:91:GLN:HG3	4:MK:121:ARG:HH21	1.81	0.45
4:MK:160:ASP:OD1	4:MK:161:TYR:N	2.49	0.45
3:ML:391:ARG:HH12	3:ML:392:LYS:CE	2.19	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MM:105:ARG:O	4:MM:109:THR:OG1	2.26	0.45
26:N4:88:ASN:O	26:N4:92:ILE:HG13	2.16	0.45
4:NA:12:ALA:HB2	39:NA:501:GTP:H5"	1.98	0.45
4:NE:1:MET:SD	4:NE:2:ARG:N	2.89	0.45
4:NE:22:GLU:O	4:NE:26:LEU:HD23	2.17	0.45
3:NF:188:SER:O	3:NF:192:LEU:HG	2.17	0.45
3:NF:256:ASN:HB3	3:NF:350:LYS:HG3	1.99	0.45
3:NH:137:HIS:O	3:NH:168:SER:HA	2.16	0.45
3:NH:197:ASP:OD1	3:NH:198:GLU:N	2.50	0.45
4:NI:15:GLN:HG2	4:NI:16:ILE:N	2.30	0.45
3:NJ:324:LYS:NZ	4:NK:222:PRO:O	2.39	0.45
4:NK:239:THR:OG1	4:NK:243:ARG:NH1	2.49	0.45
3:NL:406:MET:O	3:NL:409:THR:OG1	2.23	0.45
3:OB:6:HIS:HB3	3:OB:21:TRP:HZ2	1.81	0.45
4:OC:324:VAL:HG21	3:OD:219:THR:HG22	1.98	0.45
3:OF:37:HIS:HA	37:YK:64:ARG:NH2	2.30	0.45
3:OF:197:ASP:OD1	3:OF:198:GLU:N	2.49	0.45
3:OH:49:VAL:HG13	3:OH:50:TYR:CD2	2.51	0.45
3:OH:379:LYS:HA	3:OH:379:LYS:HE2	1.98	0.45
4:OI:265:ILE:HD12	4:OI:432:TYR:CE1	2.51	0.45
3:OJ:32:PRO:C	3:OJ:83:GLN:HE21	2.23	0.45
3:OL:103:LYS:HG3	3:OL:104:GLY:N	2.32	0.45
4:PA:1:MET:HE2	4:PA:2:ARG:H	1.81	0.45
4:PA:47:ASP:HB3	4:PA:49:PHE:CE2	2.51	0.45
4:PA:390:ARG:HA	4:PA:393:HIS:CD2	2.51	0.45
3:PB:189:VAL:HA	3:PB:192:LEU:HB2	1.98	0.45
3:PB:246:LEU:HD22	3:PB:354:CYS:HA	1.99	0.45
4:PC:71:GLU:OE1	4:PC:71:GLU:N	2.50	0.45
3:PD:7:LEU:HD13	3:PD:64:VAL:HB	1.98	0.45
3:PD:292:GLN:O	3:PD:298:ASN:ND2	2.46	0.45
3:PD:392:LYS:O	3:PD:395:LEU:HD22	2.16	0.45
4:PE:89:PRO:HD2	4:QE:280:LYS:HZ3	1.81	0.45
4:PI:367:ASP:N	4:PI:367:ASP:OD1	2.49	0.45
4:PK:16:ILE:HD11	4:PK:138:PHE:HB3	1.97	0.45
4:PK:260:VAL:HG23	4:PK:265:ILE:O	2.16	0.45
3:PL:309:ARG:NE	3:PL:426:GLN:HE21	1.99	0.45
4:PM:174:ALA:HB3	4:PM:177:VAL:O	2.16	0.45
4:PM:203:MET:N	4:PM:203:MET:SD	2.89	0.45
4:PM:333:ALA:HA	4:PM:336:LYS:HD2	1.97	0.45
30:Q3:1469:LEU:H	30:Q3:1504:LYS:HB3	1.82	0.45
3:QD:48:ASN:HA	3:QD:51:TYR:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QD:285:THR:O	3:QD:288:GLU:HG3	2.16	0.45
4:QE:46:ASP:HA	4:QE:50:ASN:HB3	1.97	0.45
4:QE:225:THR:O	4:QE:229:ARG:HB2	2.16	0.45
3:QF:305:PRO:HB2	3:QF:310:TYR:HE1	1.81	0.45
3:QF:415:MET:O	3:QF:419:VAL:HG23	2.15	0.45
4:QG:11:GLN:HG3	39:QG:501:GTP:PB	2.55	0.45
3:QH:20:PHE:CE1	3:QH:233:MET:HG3	2.52	0.45
3:QJ:41:ASP:OD2	37:YQ:23:PHE:HZ	2.00	0.45
3:QJ:163:ILE:HD13	3:QJ:250:LEU:HB2	1.98	0.45
3:QJ:319:GLY:N	3:QJ:321:MET:HE1	2.31	0.45
4:QK:46:ASP:HA	4:QK:50:ASN:HB3	1.97	0.45
3:RB:150:LEU:C	3:RB:154:LYS:HZ2	2.24	0.45
3:RD:142:GLY:H	39:RD:501:GTP:PG	2.38	0.45
3:RF:87:PRO:HA	3:RF:90:PHE:CD2	2.52	0.45
3:RH:12:CYS:HA	39:RH:501:GTP:HN22	1.82	0.45
3:RH:387:ALA:HA	3:RH:390:ARG:HD3	1.97	0.45
4:RM:67:PHE:HB2	4:RM:92:LEU:HD13	1.98	0.45
4:RM:316:CYS:HB3	4:RM:378:LEU:HB2	1.98	0.45
3:SB:6:HIS:HD1	3:SB:63:ALA:HB1	1.81	0.45
3:SB:81:PHE:O	3:SB:84:ILE:HG22	2.15	0.45
3:SF:389:PHE:CZ	3:SF:405:GLU:HB2	2.52	0.45
3:SH:324:LYS:HE2	4:SI:222:PRO:HG2	1.97	0.45
4:SI:102:ASN:HD22	4:SI:105:ARG:CD	2.29	0.45
3:SJ:197:ASP:OD1	3:SJ:198:GLU:N	2.49	0.45
4:SK:47:ASP:HB3	4:SK:49:PHE:CE2	2.51	0.45
3:TB:5:VAL:HG23	3:TB:130:LEU:HD21	1.98	0.45
4:TC:208:ALA:H	4:TC:304:LYS:NZ	2.11	0.45
4:TG:1:MET:SD	4:TG:2:ARG:N	2.89	0.45
4:TG:146:GLY:N	39:TG:501:GTP:O2B	2.47	0.45
4:TK:136:LEU:HD12	4:TK:169:PHE:CE1	2.52	0.45
4:TM:196:GLU:HG2	4:TM:197:HIS:ND1	2.31	0.45
3:UB:385:PHE:HZ	3:UB:408:PHE:HB3	1.79	0.45
4:UC:52:PHE:HZ	4:UC:239:THR:HB	1.80	0.45
4:UC:271:THR:HA	4:UC:302:MET:HE1	1.98	0.45
3:UF:266:PHE:HD1	3:UF:370:ASN:HB2	1.81	0.45
4:UG:143:GLY:O	4:UG:147:SER:OG	2.30	0.45
3:UH:391:ARG:C	3:UH:392:LYS:HG3	2.42	0.45
4:UI:186:ASN:OD1	4:UI:187:SER:N	2.50	0.45
4:UI:411:GLU:OE2	4:UI:413:MET:HE1	2.15	0.45
3:UJ:51:TYR:CD1	3:UJ:61:PRO:HA	2.51	0.45
3:UL:61:PRO:HD3	3:UL:84:ILE:HG13	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VD:19:LYS:NZ	3:VD:223:GLY:O	2.47	0.45
3:VD:214:THR:HG21	3:VD:273:LEU:HB3	1.99	0.45
4:VE:90:GLU:HG2	4:VE:121:ARG:NH2	2.31	0.45
4:VE:285:GLN:NE2	4:VE:286:LEU:O	2.49	0.45
3:VF:28:HIS:O	3:VF:43:GLN:NE2	2.50	0.45
3:VL:101:TRP:CE3	3:VL:187:LEU:HD13	2.51	0.45
4:WA:279:GLU:HA	4:WA:282:TYR:HB3	1.98	0.45
4:WA:408:TYR:CD2	4:WA:418:PHE:HZ	2.35	0.45
3:WB:47:ILE:HG13	3:WB:51:TYR:HB2	1.97	0.45
3:WB:292:GLN:O	3:WB:298:ASN:ND2	2.45	0.45
4:WC:260:VAL:HG23	4:WC:265:ILE:O	2.16	0.45
3:WD:33:THR:O	3:WD:58:LYS:NZ	2.50	0.45
4:WE:81:GLY:O	4:WE:84:ARG:NH1	2.49	0.45
3:WF:77:ARG:O	3:WF:77:ARG:NH1	2.41	0.45
4:WG:10:GLY:O	4:WG:14:VAL:HG13	2.15	0.45
4:WG:54:SER:N	4:WG:62:VAL:O	2.49	0.45
3:WL:113:VAL:HB	3:WL:154:LYS:HE3	1.97	0.45
34:XC:14:LEU:H	34:XC:165:VAL:HG12	1.81	0.45
34:XE:125:LEU:HG	34:XE:126:ASP:H	1.79	0.45
34:XG:90:GLU:HG2	34:XG:153:ARG:HH12	1.81	0.45
35:XI:157:GLN:OE1	35:XI:212:THR:HA	2.16	0.45
35:XL:96:PHE:CE2	35:XL:115:ILE:HG13	2.51	0.45
37:YC:33:ARG:NH2	37:YC:43:ILE:HD13	2.29	0.45
37:YC:59:ASN:HB2	37:YC:62:HIS:CE1	2.51	0.45
37:YD:97:LEU:O	37:YD:101:LYS:HG2	2.15	0.45
37:YE:4:VAL:HG11	37:YE:83:PHE:CZ	2.52	0.45
37:YF:15:TYR:O	37:YF:19:GLN:HG2	2.16	0.45
37:YH:108:ASN:HB3	37:YH:110:LEU:HD13	1.98	0.45
37:YK:93:THR:HA	37:YK:96:LEU:HG	1.97	0.45
37:YL:7:SER:O	37:YL:10:SER:OG	2.31	0.45
37:YR:63:ARG:O	37:YR:67:ILE:HG23	2.16	0.45
37:YU:77:SER:HA	37:YU:80:CYS:SG	2.57	0.45
37:YV:11:ILE:O	37:YV:14:LYS:HB3	2.16	0.45
37:YV:110:LEU:HD23	37:YV:140:LEU:HD13	1.98	0.45
1:A:176:LYS:HG3	1:A:180:ARG:HH12	1.82	0.45
2:A1:80:LYS:O	2:A1:83:GLN:HG2	2.17	0.45
2:A1:367:ARG:N	2:A1:367:ARG:HD2	2.32	0.45
2:A2:356:ALA:O	2:A2:360:THR:HG23	2.16	0.45
2:A3:162:ARG:HD2	2:A3:165:ARG:CZ	2.46	0.45
2:A4:214:LEU:HA	2:A4:217:TRP:CD1	2.51	0.45
4:AE:391:LEU:O	4:AE:395:PHE:N	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AF:309:ARG:O	3:AF:371:SER:OG	2.25	0.45
4:AG:46:ASP:HA	4:AG:50:ASN:HB3	1.97	0.45
4:AI:34:GLY:HA2	4:AI:86:LEU:HD11	1.98	0.45
3:AJ:52:ASN:CG	3:AJ:62:ARG:HD3	2.41	0.45
3:AJ:406:MET:SD	3:AJ:407:GLU:N	2.89	0.45
4:AK:85:GLN:OE1	4:AK:85:GLN:N	2.36	0.45
4:AK:119:LEU:HD23	4:AK:122:ILE:HD11	1.99	0.45
3:AL:164:MET:HG2	3:AL:197:ASP:CG	2.41	0.45
4:AM:122:ILE:O	4:AM:126:ALA:N	2.44	0.45
1:B:308:GLU:HA	1:B:311:ARG:HE	1.79	0.45
1:B:474:VAL:O	1:B:477:LEU:HD23	2.17	0.45
5:B3:193:ASN:O	5:B3:196:SER:OG	2.29	0.45
5:B6:277:SER:HA	5:B6:280:LYS:HE2	1.97	0.45
5:B6:369:HIS:CD2	5:B6:373:ILE:HD11	2.51	0.45
5:B6:389:LYS:HB3	5:B6:389:LYS:HE2	1.83	0.45
5:B8:140:GLU:O	5:B8:144:ILE:HG13	2.17	0.45
5:B9:279:LEU:HB2	5:B9:380:LYS:NZ	2.31	0.45
3:BD:31:ASP:OD1	3:BD:35:THR:N	2.48	0.45
4:BE:331:ALA:O	4:BE:335:ILE:HG12	2.17	0.45
3:BF:12:CYS:HB3	39:BF:501:GTP:H5'	1.98	0.45
3:BF:51:TYR:CD1	3:BF:61:PRO:HA	2.50	0.45
4:BG:36:MET:HE3	4:BG:36:MET:HA	1.97	0.45
3:BH:80:PRO:HD3	14:G5:206:PHE:HZ	1.82	0.45
3:BJ:21:TRP:CZ2	3:BJ:63:ALA:HB2	2.50	0.45
3:BL:216:LYS:O	3:BL:276:ARG:NH2	2.49	0.45
4:BM:406:HIS:HA	4:BM:409:VAL:HG22	1.98	0.45
7:C3:182:GLU:HA	7:C3:185:LEU:HD12	1.98	0.45
7:C4:284:PHE:C	7:C4:285:ARG:HD2	2.42	0.45
7:C7:94:TYR:CE1	8:D3:245:SER:HB2	2.47	0.45
7:C8:172:ASN:O	7:C8:175:THR:OG1	2.32	0.45
7:C9:203:GLU:OE1	7:C9:203:GLU:N	2.45	0.45
4:CC:165:SER:C	4:CC:166:LYS:HD2	2.40	0.45
4:CC:214:ARG:HH12	4:CC:215:ARG:HG3	1.80	0.45
4:CE:161:TYR:O	4:CE:166:LYS:NZ	2.47	0.45
4:CE:329:ASN:OD1	4:CE:330:ALA:N	2.49	0.45
3:CF:31:ASP:OD2	3:CF:33:THR:OG1	2.34	0.45
3:CH:42:LEU:HA	3:CH:45:GLU:OE2	2.16	0.45
3:CH:375:GLN:CD	3:CH:375:GLN:H	2.24	0.45
3:CJ:284:LEU:HD23	3:CJ:362:LYS:HZ2	1.81	0.45
4:CK:229:ARG:HH21	4:CK:368:LEU:HD22	1.81	0.45
3:CL:66:VAL:HA	3:CL:91:VAL:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CM:319:TYR:N	4:CM:354:GLY:O	2.48	0.45
7:Ca:339:GLN:O	7:Ca:343:VAL:HG23	2.16	0.45
7:Cc:201:HIS:HB3	7:Cc:472:LYS:HG3	1.99	0.45
8:D1:72:ASP:HA	8:D1:75:GLU:CG	2.46	0.45
8:D3:147:VAL:HG12	8:D3:151:ILE:HD11	1.99	0.45
8:D4:218:LYS:HA	8:D4:221:VAL:HG22	1.97	0.45
8:D8:189:LEU:HA	8:D8:192:ARG:HE	1.80	0.45
8:D8:313:ASP:OD1	11:F3:271:ARG:NH2	2.45	0.45
8:D9:335:GLN:CD	8:Da:78:ARG:HH21	2.25	0.45
4:DA:47:ASP:HB3	4:DA:49:PHE:CE2	2.51	0.45
4:DA:301:GLN:N	4:DA:301:GLN:OE1	2.50	0.45
4:DE:1:MET:SD	4:DE:2:ARG:N	2.90	0.45
3:DF:47:ILE:HG12	3:DF:59:TYR:CD2	2.51	0.45
4:DG:75:VAL:O	4:DG:79:ARG:HB2	2.17	0.45
4:DG:141:PHE:HB2	4:DG:173:PRO:HD3	1.98	0.45
3:DH:52:ASN:CG	3:DH:62:ARG:HD3	2.41	0.45
3:DH:134:GLN:OE1	3:DH:134:GLN:N	2.49	0.45
3:DJ:182:PRO:HB2	3:DJ:388:MET:CE	2.45	0.45
3:DJ:322:SER:N	3:DJ:325:GLU:OE2	2.42	0.45
4:DK:34:GLY:HA2	4:DK:86:LEU:HD21	1.97	0.45
9:E:769:ALA:HA	9:E:772:LEU:HB2	1.98	0.45
10:E3:147:LYS:HZ1	10:E3:150:VAL:HG22	1.82	0.45
10:E4:44:LYS:HE3	10:E4:67:LEU:HD22	1.97	0.45
4:EA:176:GLN:NE2	4:EA:207:GLU:OE2	2.49	0.45
3:EB:31:ASP:OD2	3:EB:33:THR:OG1	2.34	0.45
3:EB:105:HIS:ND1	3:EB:149:THR:OG1	2.48	0.45
3:EB:378:PHE:CD1	3:EB:419:VAL:HG22	2.51	0.45
4:EC:101:ASN:HA	4:EC:144:GLY:HA2	1.98	0.45
4:EC:139:HIS:CD2	4:EC:170:ALA:HB2	2.51	0.45
4:EC:187:SER:O	4:EC:191:THR:HG23	2.16	0.45
3:ED:156:ARG:CZ	3:ED:164:MET:HE3	2.46	0.45
3:ED:258:VAL:HB	4:EE:407:TRP:HZ2	1.80	0.45
3:ED:315:ALA:HA	3:ED:367:PHE:HA	1.98	0.45
4:EE:192:HIS:CE1	4:EE:193:THR:HG23	2.51	0.45
4:EE:406:HIS:HA	4:EE:409:VAL:HG22	1.99	0.45
4:EG:246:GLY:HA2	4:EG:357:TYR:HD1	1.81	0.45
4:EG:316:CYS:HB3	4:EG:378:LEU:HB3	1.98	0.45
3:EH:16:ILE:HD13	3:EH:226:ASN:ND2	2.32	0.45
3:EH:39:ASP:OD1	3:EH:43:GLN:NE2	2.49	0.45
4:EI:185:TYR:CE2	4:EI:398:MET:HE1	2.51	0.45
4:EI:280:LYS:HD2	4:EI:280:LYS:HA	1.76	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EJ:176:SER:HB2	3:EJ:181:GLU:HG2	1.97	0.45
3:EJ:289:LEU:O	3:EJ:293:MET:N	2.44	0.45
3:EL:81:PHE:O	3:EL:84:ILE:HG22	2.16	0.45
11:F5:146:LEU:CD1	11:F5:268:PHE:HB2	2.47	0.45
11:F5:346:ARG:O	11:F5:346:ARG:NE	2.43	0.45
11:F6:135:GLN:O	11:F6:138:THR:OG1	2.27	0.45
11:F7:112:TRP:O	11:F7:115:ARG:HG2	2.17	0.45
4:FA:89:PRO:HD2	4:GA:280:LYS:NZ	2.31	0.45
3:FB:329:GLN:HA	3:FB:332:ASN:HB2	1.97	0.45
4:FC:174:ALA:HB3	4:FC:177:VAL:O	2.15	0.45
3:FD:32:PRO:C	3:FD:83:GLN:HE21	2.22	0.45
4:FE:14:VAL:HA	4:FE:67:PHE:CE1	2.51	0.45
4:FE:271:THR:HB	4:FE:377:MET:HB2	1.99	0.45
3:FF:309:ARG:O	3:FF:371:SER:OG	2.23	0.45
4:FG:32:PRO:O	4:FG:85:GLN:NE2	2.48	0.45
4:FG:386:GLU:HA	4:FG:389:ALA:HB3	1.98	0.45
4:FI:135:PHE:CE2	4:FI:164:LYS:HD2	2.52	0.45
3:FL:136:THR:HG22	3:FL:167:PHE:CD2	2.52	0.45
11:Fa:196:TYR:O	11:Fa:199:GLU:HG2	2.17	0.45
11:Fa:395:MET:HA	11:Fa:398:CYS:SG	2.56	0.45
11:Fc:305:ARG:HA	11:Fc:308:GLN:HG3	1.99	0.45
11:Fd:95:TRP:O	11:Fd:98:SER:OG	2.31	0.45
11:Fe:254:ILE:O	11:Fe:257:LYS:HG2	2.16	0.45
11:Ff:87:PHE:C	11:Fg:208:HIS:HE2	2.24	0.45
11:Fk:185:ASN:O	11:Fk:188:LEU:HB3	2.15	0.45
11:Fk:375:ILE:HG12	11:Fk:434:LEU:HD11	1.99	0.45
11:Fl:159:GLU:HA	11:Fl:162:ARG:HH21	1.81	0.45
11:Fl:353:VAL:O	11:Fl:357:LEU:HG	2.16	0.45
13:G1:124:TYR:HE1	13:G1:126:LEU:HD13	1.80	0.45
13:G1:527:ALA:O	13:G1:531:ILE:HG12	2.16	0.45
13:G2:280:GLU:HG2	13:G2:281:ARG:H	1.81	0.45
13:G3:32:ASN:OD1	13:G3:41:ARG:NH1	2.49	0.45
13:G3:248:ILE:HB	13:G3:261:HIS:CE1	2.52	0.45
13:G3:251:ASP:O	13:G3:257:GLY:HA3	2.16	0.45
14:G4:199:MET:HA	14:G4:202:GLU:HG3	1.99	0.45
14:G4:234:CYS:HB2	14:G4:352:LEU:O	2.16	0.45
14:G5:87:ASP:OD1	14:G5:98:ARG:HB3	2.16	0.45
14:G6:669:LEU:HD12	14:G6:670:ASP:H	1.81	0.45
3:GB:3:GLU:HG2	3:GB:130:LEU:HD13	1.98	0.45
3:GB:8:GLN:CD	3:GB:17:GLY:HA3	2.41	0.45
4:GC:174:ALA:HB3	4:GC:177:VAL:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GD:12:CYS:HB3	39:GD:501:GTP:H5'	1.98	0.45
3:GD:17:GLY:HA2	3:GD:20:PHE:HB3	1.97	0.45
3:GD:131:GLN:HB3	3:GD:163:ILE:HD12	1.97	0.45
4:GE:417:GLU:O	4:GE:420:GLU:HG2	2.16	0.45
3:GH:46:ARG:HH22	4:GI:73:THR:HA	1.81	0.45
3:GJ:130:LEU:HB2	3:GJ:162:ARG:NH1	2.32	0.45
3:GJ:266:PHE:CD1	3:GJ:370:ASN:HB2	2.51	0.45
3:GJ:378:PHE:CD1	3:GJ:419:VAL:HG22	2.51	0.45
4:GK:320:ARG:HD3	4:GK:360:PRO:HG3	1.97	0.45
4:HA:75:VAL:HG22	4:HA:79:ARG:HH21	1.81	0.45
4:HA:186:ASN:OD1	4:HA:187:SER:N	2.49	0.45
3:HB:101:TRP:CE3	3:HB:187:LEU:HD13	2.52	0.45
4:HC:137:ILE:HG22	4:HC:139:HIS:ND1	2.31	0.45
4:HE:318:LEU:O	4:HE:375:VAL:HA	2.16	0.45
3:HF:12:CYS:SG	3:HF:13:GLY:N	2.90	0.45
4:HG:1:MET:HE3	4:HG:50:ASN:ND2	2.32	0.45
4:HG:47:ASP:CG	4:HG:48:SER:H	2.24	0.45
4:HG:183:GLU:N	4:HG:184:PRO:HD2	2.31	0.45
4:HI:172:TYR:CD1	4:HI:173:PRO:HD2	2.51	0.45
3:HL:113:VAL:HA	3:HL:116:VAL:HG22	1.98	0.45
16:I:114:LEU:HB2	38:a:62:SER:HB3	1.99	0.45
17:I2:57:LEU:HA	17:I2:60:SER:OG	2.16	0.45
4:IA:271:THR:HB	4:IA:377:MET:HB3	1.98	0.45
4:IE:16:ILE:HG22	4:IE:228:ASN:CG	2.41	0.45
4:IE:192:HIS:CE1	4:IE:193:THR:HG23	2.51	0.45
3:IF:132:GLY:CA	3:IF:162:ARG:HB3	2.45	0.45
3:IH:103:LYS:O	3:IH:108:GLU:N	2.28	0.45
4:II:245:ASP:OD1	4:II:249:ASN:ND2	2.48	0.45
3:IJ:251:ARG:NH2	4:IK:98:ASP:O	2.30	0.45
3:IL:156:ARG:CZ	3:IL:164:MET:HE3	2.46	0.45
4:JA:5:ILE:HD13	4:JA:64:ARG:HB3	1.98	0.45
4:JA:404:PHE:HA	4:JA:406:HIS:CE1	2.51	0.45
4:JC:35:GLN:HG2	4:JC:59:GLY:O	2.17	0.45
3:JD:384:GLN:O	3:JD:388:MET:HG2	2.16	0.45
3:JD:399:THR:HA	3:JD:403:MET:O	2.17	0.45
4:JE:53:PHE:HD1	4:JE:63:PRO:HA	1.82	0.45
4:JE:254:GLU:OE1	4:JE:254:GLU:N	2.44	0.45
4:JE:271:THR:HB	4:JE:377:MET:HE3	1.97	0.45
4:JG:84:ARG:HA	4:JG:87:PHE:HD2	1.81	0.45
3:JJ:188:SER:O	3:JJ:192:LEU:HG	2.16	0.45
4:JK:116:ASP:N	4:JK:116:ASP:OD1	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:JK:364:PRO:HB3	32:T:324:ARG:NH1	2.31	0.45
21:K2:168:VAL:HG12	21:K2:210:LYS:NZ	2.32	0.45
21:K2:320:ASP:OD1	21:K2:321:ILE:N	2.50	0.45
21:K3:375:ARG:NH2	21:K3:422:LEU:HG	2.31	0.45
3:KB:109:GLY:O	3:KB:113:VAL:HG13	2.17	0.45
4:KE:11:GLN:HB2	4:KE:74:VAL:HG21	1.99	0.45
3:KF:394:PHE:HA	3:KF:397:TRP:HZ3	1.82	0.45
3:KH:226:ASN:HA	3:KH:229:VAL:HG22	1.98	0.45
3:KJ:197:ASP:OD1	3:KJ:198:GLU:N	2.49	0.45
3:KJ:246:LEU:HD22	3:KJ:354:CYS:HA	1.98	0.45
3:KJ:398:TYR:HB3	3:KJ:403:MET:HB3	1.97	0.45
4:KK:206:ASN:HA	4:KK:209:ILE:HD12	1.97	0.45
3:KL:272:PRO:HA	3:KL:292:GLN:OE1	2.16	0.45
22:L2:147:ASN:O	22:L2:149:LYS:NZ	2.49	0.45
4:LA:11:GLN:O	4:LA:14:VAL:HG22	2.16	0.45
4:LA:182:VAL:O	4:LA:185:TYR:HB2	2.17	0.45
4:LA:301:GLN:OE1	4:LA:301:GLN:N	2.50	0.45
3:LB:139:LEU:N	3:LB:168:SER:OG	2.50	0.45
3:LB:170:VAL:N	3:LB:202:ILE:O	2.35	0.45
3:LB:311:LEU:HB2	3:LB:370:ASN:O	2.16	0.45
4:LC:102:ASN:OD1	4:LC:104:ALA:N	2.49	0.45
4:LC:211:ASP:O	4:LC:214:ARG:NH1	2.50	0.45
4:LE:207:GLU:HB2	4:LE:304:LYS:HZ1	1.80	0.45
4:LG:230:LEU:O	4:LG:234:ILE:HG12	2.16	0.45
4:LG:280:LYS:HD2	4:LG:280:LYS:HA	1.70	0.45
3:LH:305:PRO:HA	3:LH:373:ALA:HB2	1.98	0.45
3:LH:316:VAL:HG22	3:LH:352:ALA:HB3	1.99	0.45
3:LH:389:PHE:HE1	3:LH:408:PHE:HD2	1.64	0.45
3:LJ:277:GLY:HA2	3:LJ:280:GLN:NE2	2.31	0.45
4:LK:81:GLY:O	4:LK:84:ARG:NH1	2.50	0.45
4:LK:312:TYR:CE2	4:LK:341:ILE:HG13	2.50	0.45
4:LK:398:MET:O	4:LK:402:ARG:N	2.50	0.45
4:MC:346:TRP:N	4:MC:346:TRP:CD1	2.84	0.45
3:MD:113:VAL:HA	3:MD:116:VAL:HG22	1.98	0.45
39:MD:502:GTP:N1	4:ME:12:ALA:O	2.48	0.45
4:ME:122:ILE:O	4:ME:126:ALA:N	2.47	0.45
4:ME:196:GLU:HG2	4:ME:197:HIS:ND1	2.31	0.45
4:ME:254:GLU:OE1	4:ME:254:GLU:N	2.39	0.45
3:MF:249:ASP:O	3:MF:253:LEU:HG	2.17	0.45
4:MG:208:ALA:N	4:MG:304:LYS:HZ1	2.14	0.45
3:MH:136:THR:HA	3:MH:167:PHE:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MK:244:PHE:HB3	4:MK:357:TYR:OH	2.17	0.45
3:ML:152:ILE:HA	3:ML:155:ILE:HG22	1.99	0.45
3:ML:330:MET:HA	3:ML:333:VAL:HG12	1.99	0.45
4:NA:54:SER:N	4:NA:62:VAL:O	2.49	0.45
4:NA:208:ALA:H	4:NA:304:LYS:NZ	2.14	0.45
3:NB:289:LEU:HB3	3:NB:293:MET:HE3	1.98	0.45
3:NB:392:LYS:HD2	3:NB:392:LYS:O	2.16	0.45
4:NC:167:LEU:HD13	4:NC:200:CYS:HB2	1.99	0.45
4:NC:405:VAL:O	4:NC:409:VAL:HG22	2.15	0.45
3:ND:46:ARG:HH22	4:NE:73:THR:HG23	1.81	0.45
3:ND:261:PRO:HD3	4:NE:406:HIS:CG	2.52	0.45
3:NF:12:CYS:HB3	39:NF:501:GTP:H5'	1.98	0.45
3:NF:156:ARG:NE	3:NF:164:MET:HE3	2.32	0.45
3:NF:330:MET:HA	3:NF:333:VAL:HG12	1.97	0.45
4:NG:12:ALA:HB1	39:NG:501:GTP:C2	2.51	0.45
4:NG:207:GLU:HB2	4:NG:304:LYS:NZ	2.30	0.45
4:NI:202:PHE:CD1	4:NI:268:PRO:HD2	2.51	0.45
4:NK:72:PRO:HA	4:NK:75:VAL:HG12	1.98	0.45
4:NK:118:VAL:O	4:NK:122:ILE:HG12	2.16	0.45
3:NL:141:GLY:HA3	39:NL:501:GTP:H5"	1.98	0.45
3:NL:415:MET:O	3:NL:419:VAL:HG23	2.16	0.45
28:O3:29:LYS:NZ	28:O3:32:ILE:HG13	2.32	0.45
4:OC:88:HIS:HB3	4:OC:91:GLN:HB2	1.99	0.45
3:OD:350:LYS:HE3	4:OE:181:VAL:H	1.81	0.45
4:OE:104:ALA:HA	4:OE:107:HIS:HB3	1.97	0.45
3:OF:392:LYS:HD2	3:OF:392:LYS:O	2.17	0.45
4:OG:141:PHE:HB2	4:OG:173:PRO:HD3	1.99	0.45
4:OG:187:SER:O	4:OG:190:THR:OG1	2.32	0.45
3:OH:182:PRO:HB2	3:OH:388:MET:HE1	1.97	0.45
4:OI:113:GLU:OE1	4:OI:113:GLU:N	2.49	0.45
4:OI:116:ASP:OD1	4:OI:116:ASP:N	2.48	0.45
3:OJ:305:PRO:HA	3:OJ:373:ALA:HB2	1.97	0.45
3:OL:328:GLU:OE1	3:OL:332:ASN:ND2	2.49	0.45
29:P2:542:GLY:HA2	29:P2:572:TRP:CH2	2.50	0.45
29:P3:483:GLY:HA2	29:P3:503:THR:O	2.16	0.45
3:PD:3:GLU:N	3:PD:3:GLU:OE1	2.49	0.45
3:PH:40:SER:HB3	3:PH:42:LEU:HD23	1.99	0.45
4:PI:189:LEU:HA	4:PI:192:HIS:ND1	2.31	0.45
4:PI:296:PHE:CE1	4:PI:377:MET:HE2	2.51	0.45
3:PJ:258:VAL:O	4:PK:407:TRP:NE1	2.47	0.45
4:PK:84:ARG:NH2	37:YR:123:ASN:O	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PL:36:TYR:CZ	3:PL:38:GLY:HA2	2.51	0.45
3:PL:83:GLN:O	3:PL:86:ARG:NH2	2.49	0.45
4:PM:331:ALA:O	4:PM:335:ILE:HG12	2.17	0.45
30:Q1:1415:MET:O	30:Q1:1515:LEU:HG	2.16	0.45
30:Q2:1443:ILE:C	30:Q2:1445:PRO:HD2	2.41	0.45
3:QD:305:PRO:HB2	3:QD:310:TYR:HE1	1.82	0.45
4:QE:209:ILE:CG2	4:QE:227:LEU:HG	2.44	0.45
4:QE:230:LEU:O	4:QE:234:ILE:HG12	2.17	0.45
3:QF:12:CYS:SG	3:QF:13:GLY:N	2.89	0.45
3:QF:32:PRO:HA	3:QF:81:PHE:CE1	2.52	0.45
3:QH:51:TYR:CD1	3:QH:61:PRO:HA	2.51	0.45
4:QK:32:PRO:O	4:QK:85:GLN:NE2	2.50	0.45
3:QL:114:ASP:OD1	3:QL:115:SER:N	2.50	0.45
3:QL:347:ASN:HB3	4:QM:178:SER:HB3	1.98	0.45
4:QM:104:ALA:HB1	4:QM:108:TYR:HD2	1.81	0.45
27:R:349:GLN:HA	27:R:352:GLN:HB2	1.99	0.45
31:R3:279:ASN:HB2	31:R3:281:THR:HG23	1.99	0.45
3:RB:52:ASN:ND2	3:RB:62:ARG:HD3	2.31	0.45
4:RE:175:PRO:O	4:RE:390:ARG:HD3	2.16	0.45
3:RF:186:THR:HB	3:RF:385:PHE:CZ	2.51	0.45
3:RF:269:GLY:HA3	3:RF:367:PHE:HB3	1.98	0.45
4:RG:161:TYR:O	4:RG:166:LYS:NZ	2.49	0.45
4:RI:22:GLU:O	4:RI:26:LEU:HD23	2.16	0.45
4:RK:118:VAL:HA	4:RK:121:ARG:HG2	1.97	0.45
4:RK:371:VAL:HG11	4:RK:374:ALA:HB2	1.98	0.45
4:RK:386:GLU:HA	4:RK:389:ALA:HB3	1.98	0.45
4:RM:116:ASP:OD1	4:RM:116:ASP:N	2.49	0.45
3:SB:39:ASP:OD1	3:SB:43:GLN:NE2	2.48	0.45
3:SB:174:LYS:HG2	3:SB:205:GLU:OE2	2.16	0.45
3:SB:178:THR:HB	3:SB:181:GLU:HB2	1.98	0.45
3:SB:269:GLY:N	3:SB:367:PHE:O	2.50	0.45
4:SC:229:ARG:NH1	4:SC:233:GLN:HB2	2.32	0.45
3:SD:12:CYS:SG	39:SD:501:GTP:H5'	2.56	0.45
3:SD:12:CYS:HB3	39:SD:501:GTP:H5'	1.98	0.45
4:SE:47:ASP:HB3	4:SE:49:PHE:CE2	2.51	0.45
4:SE:149:PHE:O	4:SE:152:LEU:HG	2.17	0.45
4:SG:178:SER:OG	4:SG:180:ALA:O	2.33	0.45
4:SG:345:ASP:OD1	4:SG:345:ASP:N	2.50	0.45
4:SI:189:LEU:HA	4:SI:192:HIS:CE1	2.52	0.45
3:SJ:12:CYS:SG	3:SJ:13:GLY:N	2.90	0.45
3:SJ:130:LEU:HB2	3:SJ:162:ARG:HH11	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:SL:501:GTP:O3G	39:SL:501:GTP:O3'	2.26	0.45
4:SM:342:GLN:N	4:SM:342:GLN:OE1	2.50	0.45
3:TB:252:LYS:O	3:TB:256:ASN:ND2	2.50	0.45
3:TB:323:MET:SD	3:TB:323:MET:N	2.85	0.45
4:TC:192:HIS:CE1	4:TC:193:THR:HG23	2.51	0.45
4:TC:217:LEU:HD13	4:TC:277:SER:HA	1.98	0.45
4:TG:35:GLN:HG2	4:TG:59:GLY:O	2.17	0.45
4:TG:351:PHE:HE1	3:TH:177:ASP:H	1.64	0.45
3:TH:6:HIS:HB3	3:TH:21:TRP:HZ2	1.81	0.45
3:TJ:11:GLN:O	3:TJ:14:ASN:HB2	2.16	0.45
4:TM:10:GLY:O	4:TM:14:VAL:HG13	2.16	0.45
33:U:507:ALA:HA	33:U:510:ARG:HB3	1.97	0.45
4:UC:2:ARG:HA	4:UC:133:GLN:NE2	2.32	0.45
3:UD:384:GLN:O	3:UD:388:MET:HG2	2.17	0.45
4:UE:390:ARG:HA	4:UE:393:HIS:CD2	2.52	0.45
4:UI:325:PRO:HA	4:UI:328:VAL:HB	1.98	0.45
4:UI:329:ASN:HA	4:UI:332:ILE:HG12	1.98	0.45
3:UJ:357:PRO:O	3:UJ:359:ARG:NH1	2.46	0.45
4:UK:30:ILE:HG13	4:UK:53:PHE:HE2	1.81	0.45
3:UL:149:THR:HG21	3:UL:188:SER:HA	1.99	0.45
4:VA:46:ASP:HA	4:VA:50:ASN:HB3	1.97	0.45
4:VA:88:HIS:CE1	4:VA:121:ARG:HH22	2.33	0.45
4:VA:375:VAL:HG13	4:VA:377:MET:SD	2.57	0.45
4:VE:377:MET:HE3	4:VE:379:SER:HB3	1.98	0.45
3:VF:318:ARG:C	3:VF:321:MET:HE1	2.41	0.45
4:VG:1:MET:N	4:VG:130:THR:OG1	2.46	0.45
4:VG:30:ILE:HG13	4:VG:53:PHE:HE2	1.80	0.45
4:VG:141:PHE:HE2	4:VG:203:MET:HG3	1.81	0.45
4:VG:196:GLU:HG2	4:VG:197:HIS:ND1	2.31	0.45
3:VH:321:MET:SD	3:VH:322:SER:N	2.89	0.45
4:VI:399:TYR:OH	4:VI:415:GLU:HB2	2.16	0.45
4:WA:386:GLU:HA	4:WA:389:ALA:HB3	1.99	0.45
3:WB:7:LEU:HB2	3:WB:135:LEU:HG	1.98	0.45
4:WC:316:CYS:HB3	4:WC:378:LEU:HB2	1.96	0.45
3:WD:277:GLY:O	3:WD:280:GLN:NE2	2.49	0.45
4:WE:326:LYS:HZ3	3:WF:211:CYS:HB3	1.80	0.45
3:WH:52:ASN:ND2	3:WH:62:ARG:HD3	2.30	0.45
4:WI:329:ASN:OD1	4:WI:330:ALA:N	2.50	0.45
3:WJ:176:SER:O	3:WJ:178:THR:N	2.49	0.45
3:WJ:289:LEU:HD21	3:WJ:363:MET:HB3	1.99	0.45
4:WK:423:GLU:HA	4:WK:426:ALA:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:XA:34:ILE:O	34:XA:36:ARG:NH1	2.49	0.45
34:XC:79:ILE:HD13	34:XC:164:ARG:HB3	1.98	0.45
34:XC:86:TYR:HA	34:XC:107:ASN:HD21	1.81	0.45
34:XF:48:GLU:OE2	34:XF:161:ARG:NE	2.48	0.45
35:XJ:56:PHE:CZ	35:XJ:96:PHE:HA	2.52	0.45
35:XK:137:ILE:O	35:XK:141:LEU:HG	2.16	0.45
36:Y:216:ILE:HG22	36:Y:220:LYS:NZ	2.32	0.45
37:YG:22:GLN:NE2	37:YG:121:VAL:O	2.44	0.45
37:YI:159:PRO:HG2	37:YI:161:LYS:HG2	1.98	0.45
37:YK:50:GLN:HA	37:YK:53:MET:HE2	1.99	0.45
37:YL:25:PHE:CZ	37:YL:66:LEU:HD13	2.52	0.45
37:YM:8:LEU:HA	37:YM:11:ILE:HD12	1.97	0.45
37:YM:139:SER:C	37:YM:142:PRO:HD2	2.42	0.45
37:YP:124:HIS:ND1	37:YP:124:HIS:O	2.50	0.45
37:YV:45:SER:HB3	37:YV:48:GLN:OE1	2.16	0.45
36:Z:300:ARG:HH11	36:Z:303:GLN:HB2	1.81	0.45
36:Z:304:MET:O	36:Z:308:LYS:N	2.34	0.45
1:A:253:ASP:O	1:A:256:ARG:HG2	2.15	0.45
1:A:315:ASP:O	1:A:318:GLN:NE2	2.48	0.45
2:A3:265:ILE:HG22	2:A3:269:LYS:NZ	2.31	0.45
2:A4:34:SER:O	2:A4:38:VAL:HG23	2.16	0.45
4:AC:402:ARG:HE	35:XH:233:PRO:HB2	1.81	0.45
3:AD:139:LEU:HD21	3:AD:170:VAL:HG22	1.99	0.45
3:AD:224:ASP:O	3:AD:228:LEU:HG	2.17	0.45
4:AE:167:LEU:HD11	4:AE:202:PHE:CE2	2.51	0.45
3:AF:12:CYS:SG	39:AF:501:GTP:H5'	2.57	0.45
3:AF:73:MET:HE1	3:AF:92:PHE:CB	2.46	0.45
3:AF:376:GLU:H	3:AF:376:GLU:CD	2.23	0.45
3:AH:4:ILE:HB	3:AH:50:TYR:CE1	2.51	0.45
3:AH:52:ASN:CG	3:AH:62:ARG:HD3	2.42	0.45
3:AH:175:VAL:HG22	3:AH:177:ASP:H	1.81	0.45
3:AH:330:MET:HG3	3:AH:349:VAL:HG11	1.98	0.45
3:AJ:289:LEU:O	3:AJ:293:MET:N	2.45	0.45
3:AJ:293:MET:HE2	3:AJ:367:PHE:CB	2.46	0.45
4:AK:178:SER:OG	4:AK:180:ALA:O	2.34	0.45
4:AM:5:ILE:HB	4:AM:135:PHE:HD1	1.82	0.45
4:AM:9:VAL:HA	4:AM:68:VAL:HG23	1.97	0.45
4:AM:263:PRO:HB2	4:AM:264:ARG:NH1	2.30	0.45
5:B1:136:GLU:O	5:B1:140:GLU:OE1	2.34	0.45
5:B1:284:LYS:HE3	5:B1:284:LYS:HB3	1.81	0.45
5:B1:360:GLN:HG3	8:D4:237:GLN:NE2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B1:413:ARG:HD2	8:D5:403:ARG:HD2	1.98	0.45
5:B2:32:ARG:O	5:B2:35:SER:OG	2.25	0.45
5:B3:265:PHE:CE2	5:B3:269:LEU:HD11	2.51	0.45
5:B3:396:LYS:NZ	10:E2:61:GLN:HB2	2.31	0.45
5:B6:39:ARG:HG3	5:B6:43:ARG:CZ	2.47	0.45
5:B6:78:LEU:HD22	5:B6:179:LYS:HZ1	1.80	0.45
5:B6:120:ARG:HH12	5:B6:390:CYS:HB3	1.82	0.45
5:B6:171:GLN:HE22	5:B6:172:LEU:HG	1.82	0.45
4:BC:50:ASN:OD1	4:BC:51:THR:N	2.49	0.45
3:BD:132:GLY:HA3	3:BD:163:ILE:H	1.80	0.45
3:BD:276:ARG:HB3	14:G4:125:LEU:HA	1.98	0.45
3:BD:304:ASP:O	3:BD:307:HIS:ND1	2.48	0.45
4:BE:160:ASP:OD1	4:BE:161:TYR:N	2.49	0.45
4:BE:174:ALA:HB3	4:BE:177:VAL:O	2.16	0.45
4:BG:196:GLU:HG2	4:BG:197:HIS:ND1	2.32	0.45
3:BH:2:ARG:HB3	3:BH:131:GLN:CD	2.42	0.45
4:BI:415:GLU:OE2	4:BI:419:SER:OG	2.34	0.45
4:BK:132:LEU:HD21	4:BK:135:PHE:CE1	2.52	0.45
4:BM:272:TYR:HE1	4:BM:374:ALA:HB1	1.80	0.45
6:C:65:PHE:O	6:C:66:LEU:HD22	2.17	0.45
6:C:145:MET:HE3	6:C:145:MET:HA	1.98	0.45
6:C:145:MET:HE1	6:C:250:ALA:N	2.31	0.45
7:C3:155:PHE:O	7:C3:158:SER:OG	2.32	0.45
7:C3:202:ARG:CZ	7:C3:469:ASP:HA	2.46	0.45
7:C3:470:GLN:O	7:C3:474:MET:HG3	2.16	0.45
7:C6:184:GLY:HA2	7:C6:187:GLU:HB2	1.99	0.45
7:C7:139:GLN:O	7:C7:142:SER:OG	2.34	0.45
7:C7:354:THR:O	7:C7:358:LYS:HG3	2.17	0.45
7:C8:205:ARG:NE	7:C8:209:ASP:O	2.30	0.45
7:C9:235:GLN:O	7:C9:239:LYS:HG3	2.17	0.45
3:CB:172:SER:OG	3:CB:205:GLU:OE2	2.21	0.45
4:CC:333:ALA:HA	4:CC:336:LYS:HD2	1.98	0.45
3:CD:109:GLY:O	3:CD:113:VAL:HG13	2.16	0.45
4:CE:5:ILE:HD13	4:CE:64:ARG:HB3	1.98	0.45
4:CE:279:GLU:O	4:CE:282:TYR:HB3	2.17	0.45
3:CF:17:GLY:HA2	3:CF:20:PHE:HB3	1.99	0.45
3:CF:345:ILE:HD12	3:CF:346:PRO:HD2	1.98	0.45
3:CH:249:ASP:O	3:CH:252:LYS:HB3	2.17	0.45
3:CH:389:PHE:HZ	3:CH:405:GLU:HB2	1.81	0.45
4:CI:172:TYR:N	4:CI:204:VAL:O	2.38	0.45
4:CI:260:VAL:O	3:CJ:397:TRP:HH2	2.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CK:163:LYS:HA	4:CK:163:LYS:HD3	1.78	0.45
3:CL:91:VAL:HG11	3:CL:116:VAL:HG12	1.98	0.45
3:CL:273:LEU:H	3:CL:292:GLN:HE22	1.65	0.45
4:CM:10:GLY:O	4:CM:13:GLY:N	2.49	0.45
7:Ca:345:LEU:O	7:Ca:348:THR:OG1	2.28	0.45
6:D:102:THR:HG22	6:D:106:LEU:HD23	1.98	0.45
8:D4:105:GLU:O	8:D4:108:GLU:HG3	2.16	0.45
8:D5:368:LEU:HB3	8:D5:370:ARG:NH2	2.32	0.45
8:D7:102:LYS:O	8:D7:106:ARG:HG2	2.15	0.45
8:D7:332:GLN:HA	8:D8:78:ARG:CZ	2.46	0.45
8:D8:131:MET:CE	8:D8:279:ARG:HH11	2.29	0.45
4:DA:272:TYR:CZ	4:DA:274:PRO:HG2	2.50	0.45
4:DC:70:LEU:HB3	4:DC:97:GLU:O	2.15	0.45
3:DF:269:GLY:HA3	3:DF:367:PHE:HB3	1.98	0.45
3:DF:319:GLY:HA2	3:DF:357:PRO:HG3	1.98	0.45
4:DG:46:ASP:OD1	4:DG:50:ASN:ND2	2.46	0.45
3:DH:249:ASP:O	3:DH:253:LEU:HG	2.15	0.45
4:DI:139:HIS:CD2	4:DI:170:ALA:HB2	2.51	0.45
3:DJ:267:MET:O	3:DJ:368:ILE:HD12	2.16	0.45
4:DK:286:LEU:HD23	4:DK:286:LEU:H	1.81	0.45
3:DL:156:ARG:CZ	3:DL:164:MET:HE3	2.46	0.45
3:DL:161:ASP:C	3:DL:162:ARG:HD2	2.41	0.45
3:DL:313:VAL:HB	3:DL:367:PHE:HE1	1.81	0.45
8:Da:74:SER:O	8:Da:77:GLN:HG3	2.17	0.45
9:E:582:ASN:HB3	9:E:586:LEU:HD23	1.98	0.45
3:EB:87:PRO:HA	3:EB:90:PHE:CD2	2.52	0.45
4:EC:178:SER:OG	4:EC:180:ALA:O	2.35	0.45
3:ED:13:GLY:HA2	3:ED:16:ILE:HB	1.98	0.45
3:ED:163:ILE:HD13	3:ED:250:LEU:HB2	1.98	0.45
3:ED:167:PHE:CZ	3:ED:233:MET:HE1	2.52	0.45
3:ED:227:HIS:CD2	13:G1:387:TYR:HA	2.52	0.45
3:ED:389:PHE:HZ	3:ED:405:GLU:HB2	1.80	0.45
4:EE:117:LEU:O	4:EE:121:ARG:HG2	2.16	0.45
3:EF:259:PRO:HA	4:EG:404:PHE:CE1	2.52	0.45
3:EH:187:LEU:HD21	3:EH:408:PHE:CE1	2.51	0.45
3:EH:375:GLN:HA	3:EH:378:PHE:CE1	2.52	0.45
3:EJ:272:PRO:HA	3:EJ:292:GLN:OE1	2.17	0.45
4:EK:115:VAL:O	4:EK:119:LEU:HG	2.17	0.45
4:EK:213:CYS:O	4:EK:218:ASP:N	2.50	0.45
3:EL:20:PHE:O	3:EL:24:ILE:HG13	2.16	0.45
11:F1:244:ARG:HG3	11:F1:248:HIS:HE1	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:F2:263:ILE:HA	11:F2:266:ASN:ND2	2.31	0.45
11:F2:409:ARG:NH2	11:F3:291:SER:O	2.50	0.45
11:F3:156:LEU:HD23	11:F3:257:LYS:HZ3	1.81	0.45
11:F3:226:GLN:O	11:F3:229:MET:HG3	2.16	0.45
11:F3:323:HIS:HA	11:F3:326:GLU:CD	2.42	0.45
11:F3:470:MET:HA	11:F3:473:ARG:CZ	2.47	0.45
11:F7:99:ASN:HA	11:F7:102:GLN:OE1	2.17	0.45
3:FB:6:HIS:HE1	3:FB:136:THR:HG23	1.81	0.45
4:FC:187:SER:O	4:FC:191:THR:HG23	2.16	0.45
3:FD:28:HIS:ND1	3:FD:43:GLN:HB2	2.32	0.45
3:FF:2:ARG:HA	3:FF:129:CYS:O	2.17	0.45
3:FF:101:TRP:CE3	3:FF:187:LEU:HD13	2.52	0.45
3:FF:130:LEU:HB2	3:FF:162:ARG:NH1	2.31	0.45
3:FF:323:MET:SD	3:FF:323:MET:N	2.89	0.45
4:FG:50:ASN:O	4:FG:64:ARG:NH1	2.49	0.45
4:FI:40:LYS:HD2	4:FI:40:LYS:O	2.17	0.45
4:FI:318:LEU:O	4:FI:375:VAL:HA	2.16	0.45
3:FJ:48:ASN:HA	3:FJ:51:TYR:O	2.16	0.45
3:FJ:320:ARG:NH1	3:FJ:355:ASP:HB2	2.32	0.45
11:Fa:107:GLU:OE1	11:Fa:107:GLU:N	2.48	0.45
11:Fb:433:ARG:CZ	11:Fc:123:ILE:HB	2.46	0.45
11:Fc:201:ARG:NH1	11:Fc:461:THR:HA	2.32	0.45
11:Fd:106:ALA:O	11:Fd:110:ARG:HG3	2.15	0.45
11:Fe:470:MET:HE1	11:Fe:473:ARG:HD2	1.97	0.45
11:Ff:225:CYS:SG	11:Ff:328:LEU:HD22	2.55	0.45
11:Fm:132:HIS:HA	11:Fm:135:GLN:HG3	1.99	0.45
12:G:201:PHE:CZ	3:GJ:362:LYS:HG3	2.52	0.45
12:G:344:ASP:HA	12:G:347:MET:HE2	1.99	0.45
13:G1:316:SER:O	13:G1:320:VAL:HG23	2.17	0.45
13:G2:210:ASP:HB3	13:G2:213:THR:HG23	1.98	0.45
13:G2:453:GLU:O	13:G2:464:GLY:N	2.50	0.45
13:G3:299:LYS:HD2	13:G3:324:TYR:HA	1.99	0.45
14:G4:14:ASN:O	27:P:330:LEU:HD21	2.16	0.45
14:G4:495:LYS:HE2	14:G4:499:SER:HB2	1.99	0.45
14:G4:652:VAL:HG23	14:G4:687:GLN:HB3	1.98	0.45
14:G5:331:ASP:N	14:G5:331:ASP:OD1	2.49	0.45
14:G6:738:PHE:O	14:G6:742:VAL:HG23	2.16	0.45
4:GA:252:LEU:HD12	4:GA:253:THR:N	2.31	0.45
3:GB:91:VAL:HG11	3:GB:116:VAL:HG12	1.98	0.45
3:GB:199:THR:HB	3:GB:265:PHE:HA	1.99	0.45
3:GB:228:LEU:HD12	3:GB:229:VAL:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GB:357:PRO:HB3	3:GB:362:LYS:HA	1.99	0.45
3:GF:205:GLU:HA	3:GF:208:TYR:CD2	2.51	0.45
3:GF:324:LYS:HE2	4:GG:222:PRO:CD	2.46	0.45
4:GG:216:ASN:ND2	4:GG:275:VAL:HG23	2.31	0.45
3:GH:155:ILE:HA	3:GH:158:GLU:HB2	1.97	0.45
4:GI:50:ASN:O	4:GI:64:ARG:NH1	2.50	0.45
4:GI:161:TYR:HB3	4:GI:164:LYS:NZ	2.30	0.45
4:GI:280:LYS:HD2	4:GI:280:LYS:HA	1.73	0.45
4:GI:338:LYS:HZ2	4:GI:340:THR:H	1.62	0.45
4:GI:391:LEU:O	4:GI:394:LYS:HB2	2.16	0.45
3:GJ:12:CYS:HA	39:GJ:501:GTP:N2	2.30	0.45
3:GJ:21:TRP:CZ2	3:GJ:63:ALA:HB2	2.51	0.45
3:GJ:227:HIS:CE1	25:N:34:ASN:HB2	2.51	0.45
3:GJ:375:GLN:HA	3:GJ:378:PHE:CE1	2.52	0.45
4:GK:321:GLY:N	4:GK:356:ASN:O	2.28	0.45
3:GL:100:ASN:HB3	3:GL:103:LYS:CB	2.46	0.45
3:GL:134:GLN:HA	3:GL:165:ASN:O	2.17	0.45
12:H:464:ALA:HA	12:H:467:GLU:OE1	2.17	0.45
15:H5:13:GLU:CG	15:H5:14:PRO:HA	2.47	0.45
4:HA:47:ASP:HB3	4:HA:49:PHE:CE2	2.52	0.45
4:HA:187:SER:O	4:HA:190:THR:OG1	2.30	0.45
4:HA:288:VAL:O	4:HA:292:THR:OG1	2.17	0.45
3:HD:235:GLY:O	3:HD:238:THR:OG1	2.28	0.45
4:HE:141:PHE:HE2	4:HE:203:MET:HG3	1.82	0.45
4:HE:251:ASP:HB3	4:HE:254:GLU:OE1	2.17	0.45
4:HE:419:SER:HA	4:HE:422:ARG:NH2	2.31	0.45
3:HF:2:ARG:HB3	3:HF:131:GLN:CD	2.41	0.45
3:HF:197:ASP:OD1	3:HF:198:GLU:N	2.49	0.45
4:HG:107:HIS:CD2	4:HG:152:LEU:HB2	2.52	0.45
3:HJ:189:VAL:HA	3:HJ:192:LEU:HD12	1.98	0.45
4:HK:296:PHE:CE2	4:HK:335:ILE:HD13	2.52	0.45
4:IA:224:TYR:HB3	4:IA:228:ASN:HD21	1.81	0.45
4:IC:88:HIS:CD2	4:IC:90:GLU:HG2	2.51	0.45
4:IE:167:LEU:HD13	4:IE:200:CYS:HB2	1.99	0.45
3:IF:235:GLY:O	3:IF:238:THR:OG1	2.25	0.45
3:IF:272:PRO:HA	3:IF:292:GLN:OE1	2.16	0.45
4:IG:263:PRO:O	4:IG:264:ARG:HB2	2.16	0.45
3:IH:139:LEU:N	3:IH:168:SER:OG	2.50	0.45
4:II:168:GLU:OE1	4:II:198:SER:OG	2.34	0.45
3:IJ:17:GLY:HA2	3:IJ:20:PHE:HB3	1.98	0.45
3:IJ:31:ASP:N	3:IJ:31:ASP:OD1	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IJ:317:PHE:HE2	3:IJ:326:VAL:HG23	1.82	0.45
4:IK:116:ASP:OD1	4:IK:116:ASP:N	2.47	0.45
4:IK:319:TYR:HE2	4:IK:328:VAL:HG13	1.82	0.45
3:IL:82:GLY:HA2	3:IL:85:PHE:HD2	1.81	0.45
3:IL:148:GLY:O	3:IL:152:ILE:HG12	2.16	0.45
4:IM:104:ALA:O	4:IM:108:TYR:N	2.47	0.45
4:IM:204:VAL:HG22	4:IM:209:ILE:HD11	1.98	0.45
18:J:51:ILE:HA	18:J:54:LYS:HB3	1.99	0.45
18:J:84:LEU:HB3	20:K:25:ARG:HE	1.79	0.45
18:J:176:MET:HE2	4:KI:29:GLY:HA2	1.97	0.45
19:J1:162:ARG:NH2	19:J1:163:ASN:O	2.49	0.45
4:JA:346:TRP:O	3:JB:388:MET:HE1	2.15	0.45
3:JB:391:ARG:C	3:JB:392:LYS:HG3	2.42	0.45
4:JE:89:PRO:HD2	4:KE:280:LYS:NZ	2.28	0.45
4:JG:178:SER:OG	4:JG:180:ALA:O	2.34	0.45
4:JG:278:ALA:O	4:JG:370:LYS:NZ	2.50	0.45
3:JJ:11:GLN:HG3	39:JJ:501:GTP:PA	2.57	0.45
3:JJ:398:TYR:HB3	3:JJ:403:MET:HB2	1.98	0.45
4:JK:2:ARG:HA	4:JK:133:GLN:HE22	1.81	0.45
4:JK:66:VAL:HG12	4:JK:68:VAL:HG13	1.98	0.45
4:JK:168:GLU:HB2	4:JK:201:ALA:HA	1.98	0.45
4:JK:296:PHE:CE2	4:JK:335:ILE:HG21	2.52	0.45
4:JK:306:ASP:OD2	4:JK:309:HIS:N	2.50	0.45
3:JL:1:MET:HE1	3:JL:48:ASN:HB2	1.98	0.45
3:JL:257:MET:HE3	3:JL:312:THR:OG1	2.16	0.45
20:K:95:MET:HE2	20:K:112:CYS:SG	2.56	0.45
20:K:199:ALA:N	20:K:221:VAL:O	2.31	0.45
21:K2:387:LEU:HD23	21:K2:387:LEU:O	2.15	0.45
21:K4:350:MET:SD	21:K4:447:LEU:HD12	2.57	0.45
4:KA:23:LEU:HD12	4:KA:232:GLY:HA3	1.98	0.45
3:KB:375:GLN:HE21	3:KB:422:TYR:HB3	1.82	0.45
4:KE:104:ALA:HA	4:KE:107:HIS:HB3	1.98	0.45
4:KE:115:VAL:HG23	4:KE:153:LEU:HD13	1.99	0.45
4:KE:165:SER:C	4:KE:166:LYS:HD2	2.42	0.45
4:KE:224:TYR:CE2	39:KE:501:GTP:C5	3.03	0.45
4:KE:316:CYS:HB3	4:KE:378:LEU:HB3	1.99	0.45
3:KF:36:TYR:HE2	3:KF:44:LEU:HD13	1.82	0.45
4:KG:398:MET:O	4:KG:402:ARG:N	2.49	0.45
3:KH:183:TYR:CZ	3:KH:388:MET:HG3	2.51	0.45
4:KI:333:ALA:HA	4:KI:336:LYS:HD2	1.98	0.45
3:KJ:142:GLY:N	39:KJ:501:GTP:O3G	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:KK:168:GLU:OE1	4:KK:198:SER:OG	2.31	0.45
4:KK:208:ALA:H	4:KK:304:LYS:NZ	2.14	0.45
3:KL:362:LYS:HG2	32:T:360:LEU:HD11	1.98	0.45
22:L3:129:ARG:HH22	4:LK:93:ILE:HA	1.81	0.45
3:LB:227:HIS:CD2	27:Q:142:MET:HE1	2.51	0.45
3:LB:249:ASP:O	3:LB:253:LEU:HG	2.16	0.45
4:LC:10:GLY:O	4:LC:14:VAL:HG13	2.15	0.45
3:LD:318:ARG:C	3:LD:321:MET:HE1	2.41	0.45
3:LD:324:LYS:HG3	3:LD:325:GLU:H	1.80	0.45
3:LF:217:LEU:HD11	3:LF:220:PRO:HB3	1.98	0.45
3:LF:415:MET:O	3:LF:419:VAL:HG23	2.16	0.45
3:LH:12:CYS:O	3:LH:15:GLN:N	2.44	0.45
4:LK:206:ASN:HA	4:LK:209:ILE:HD12	1.98	0.45
3:LL:1:MET:HE1	3:LL:49:VAL:HA	1.97	0.45
3:LL:24:ILE:HA	3:LL:27:GLU:HG3	1.97	0.45
3:LL:130:LEU:HB2	3:LL:162:ARG:HH11	1.79	0.45
3:MB:211:CYS:HA	3:MB:215:LEU:HD12	1.98	0.45
4:MC:9:VAL:HA	4:MC:68:VAL:HG23	1.99	0.45
4:ME:53:PHE:HE1	4:ME:63:PRO:HG3	1.82	0.45
4:ME:172:TYR:CD1	4:ME:203:MET:HG2	2.50	0.45
3:MF:73:MET:HE1	3:MF:92:PHE:CB	2.47	0.45
4:MG:8:HIS:CD2	4:MG:17:GLY:HA3	2.52	0.45
4:MK:171:ILE:HD12	4:MK:204:VAL:HG13	1.97	0.45
4:MK:280:LYS:HD2	4:MK:280:LYS:HA	1.69	0.45
3:ML:2:ARG:HH22	3:ML:251:ARG:NH2	2.14	0.45
3:ML:247:ASN:CB	3:ML:252:LYS:HG2	2.46	0.45
4:MM:113:GLU:OE1	4:MM:113:GLU:N	2.49	0.45
4:NC:81:GLY:O	4:NC:84:ARG:NH1	2.50	0.45
3:ND:258:VAL:HB	4:NE:407:TRP:HZ2	1.82	0.45
3:ND:324:LYS:HE2	4:NE:222:PRO:CD	2.47	0.45
4:NE:90:GLU:HG2	4:NE:121:ARG:NH2	2.31	0.45
3:NF:7:LEU:HB2	3:NF:135:LEU:HG	1.97	0.45
3:NF:350:LYS:HE3	4:NG:180:ALA:HA	1.97	0.45
3:NH:40:SER:HB2	3:NH:43:GLN:CD	2.42	0.45
4:NI:113:GLU:N	4:NI:113:GLU:OE1	2.49	0.45
4:NI:117:LEU:O	4:NI:121:ARG:HG2	2.16	0.45
3:NJ:52:ASN:ND2	3:NJ:62:ARG:HD3	2.31	0.45
3:NJ:374:ILE:HG22	3:NJ:378:PHE:CD2	2.52	0.45
4:NK:254:GLU:OE1	4:NK:254:GLU:N	2.46	0.45
4:NK:358:GLN:NE2	4:NK:359:PRO:O	2.45	0.45
3:NL:309:ARG:O	3:NL:371:SER:OG	2.26	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:OB:305:PRO:HA	3:OB:373:ALA:HB2	1.99	0.45
4:OC:35:GLN:HG2	4:OC:59:GLY:O	2.16	0.45
4:OE:207:GLU:HB2	4:OE:304:LYS:HZ1	1.81	0.45
4:OE:265:ILE:HG13	4:OE:267:PHE:HD2	1.82	0.45
3:OF:187:LEU:HD21	3:OF:408:PHE:CE1	2.51	0.45
3:OF:357:PRO:HB3	3:OF:362:LYS:HA	1.98	0.45
4:OG:185:TYR:O	4:OG:189:LEU:HG	2.16	0.45
3:OH:173:PRO:HD3	3:OH:203:ASP:OD1	2.17	0.45
4:OI:317:MET:HE1	4:OI:351:PHE:HB3	1.97	0.45
3:OJ:58:LYS:HZ2	3:OJ:84:ILE:HD12	1.80	0.45
4:OK:105:ARG:O	4:OK:109:THR:OG1	2.21	0.45
4:OK:396:ASP:HA	4:OK:422:ARG:NH2	2.31	0.45
27:P:284:ILE:O	27:P:287:THR:OG1	2.30	0.45
29:P1:497:GLN:HG2	29:P1:531:VAL:HG23	1.98	0.45
29:P1:566:ASP:O	29:P1:567:HIS:ND1	2.50	0.45
29:P2:483:GLY:HA2	29:P2:503:THR:O	2.17	0.45
29:P3:115:GLU:HB3	29:P3:129:LEU:HG	1.98	0.45
29:P3:579:VAL:HG11	29:P3:582:VAL:HG23	1.97	0.45
4:PA:160:ASP:OD1	4:PA:161:TYR:N	2.49	0.45
4:PA:272:TYR:CZ	4:PA:274:PRO:HG2	2.51	0.45
4:PE:317:MET:HE1	4:PE:351:PHE:HB3	1.99	0.45
4:PG:390:ARG:HA	4:PG:393:HIS:CD2	2.52	0.45
4:PI:287:SER:N	4:PI:290:GLU:OE2	2.50	0.45
3:PJ:173:PRO:HD3	3:PJ:203:ASP:OD1	2.16	0.45
4:PK:251:ASP:HB3	4:PK:254:GLU:OE1	2.17	0.45
3:PL:5:VAL:HG22	3:PL:62:ARG:HB3	1.99	0.45
3:PL:415:MET:O	3:PL:419:VAL:HG23	2.15	0.45
27:Q:14:ASN:OD1	27:Q:15:LEU:N	2.49	0.45
3:QD:11:GLN:HG3	39:QD:501:GTP:PA	2.56	0.45
4:QG:176:GLN:N	4:QG:176:GLN:OE1	2.50	0.45
3:QH:305:PRO:HB2	3:QH:310:TYR:HE1	1.80	0.45
3:QH:324:LYS:HG3	4:QI:221:ARG:NH1	2.32	0.45
3:QJ:11:GLN:HE21	39:QJ:501:GTP:H3'	1.81	0.45
3:QJ:167:PHE:CD1	3:QJ:233:MET:HE2	2.52	0.45
4:QK:11:GLN:O	4:QK:14:VAL:HG22	2.16	0.45
4:QM:182:VAL:HA	4:QM:185:TYR:CD2	2.49	0.45
3:RB:130:LEU:HB2	3:RB:162:ARG:HH11	1.82	0.45
3:RB:250:LEU:O	3:RB:254:ALA:N	2.40	0.45
3:RB:415:MET:O	3:RB:419:VAL:HG23	2.16	0.45
4:RC:430:LYS:HA	4:RC:433:GLU:HG3	1.97	0.45
3:RH:52:ASN:CG	3:RH:62:ARG:HD3	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RH:378:PHE:CE1	3:RH:419:VAL:HA	2.52	0.45
3:RJ:7:LEU:HB2	3:RJ:135:LEU:HG	1.97	0.45
3:RJ:46:ARG:NH2	4:RK:73:THR:HA	2.26	0.45
4:RK:187:SER:O	4:RK:190:THR:OG1	2.28	0.45
4:RM:67:PHE:O	4:RM:93:ILE:N	2.49	0.45
4:RM:282:TYR:OH	37:YU:131:ARG:HG2	2.16	0.45
3:SD:188:SER:O	3:SD:192:LEU:HG	2.16	0.45
3:SD:357:PRO:O	3:SD:359:ARG:NH1	2.46	0.45
4:SG:119:LEU:HA	4:SG:122:ILE:HD12	1.99	0.45
4:SG:229:ARG:HE	4:SG:368:LEU:HD22	1.81	0.45
4:SI:406:HIS:HA	4:SI:409:VAL:HG22	1.97	0.45
4:SI:417:GLU:OE1	4:SI:417:GLU:N	2.33	0.45
3:SJ:269:GLY:HA2	3:SJ:300:MET:HE1	1.99	0.45
3:SJ:270:PHE:CG	3:SJ:271:ALA:N	2.83	0.45
4:SM:331:ALA:O	4:SM:334:THR:OG1	2.27	0.45
3:TB:176:SER:O	3:TB:178:THR:N	2.49	0.45
4:TC:66:VAL:HG22	4:TC:91:GLN:HG2	1.98	0.45
3:TD:3:GLU:OE2	3:TD:127:CYS:HB2	2.17	0.45
3:TD:87:PRO:HA	3:TD:90:PHE:CD2	2.51	0.45
3:TD:255:VAL:HG12	4:TE:407:TRP:CE3	2.52	0.45
3:TD:375:GLN:HA	3:TD:378:PHE:CE1	2.51	0.45
4:TE:280:LYS:HD2	4:TE:280:LYS:HA	1.74	0.45
4:TG:54:SER:N	4:TG:62:VAL:O	2.50	0.45
4:TG:160:ASP:OD1	4:TG:161:TYR:N	2.50	0.45
4:TG:405:VAL:O	4:TG:409:VAL:HG22	2.16	0.45
3:TH:52:ASN:ND2	3:TH:62:ARG:HD3	2.32	0.45
3:TH:145:SER:HB2	3:TH:188:SER:HB3	1.99	0.45
4:TK:144:GLY:N	39:TK:501:GTP:O2B	2.49	0.45
3:TN:7:LEU:HD13	3:TN:64:VAL:HB	1.97	0.45
3:TN:139:LEU:HD21	3:TN:170:VAL:HG22	1.98	0.45
3:TN:183:TYR:CZ	3:TN:388:MET:HG3	2.52	0.45
4:UA:30:ILE:HG13	4:UA:53:PHE:HE2	1.81	0.45
3:UB:374:ILE:HG22	3:UB:378:PHE:CD2	2.52	0.45
4:UC:196:GLU:OE1	4:UC:196:GLU:N	2.43	0.45
4:UE:351:PHE:HZ	3:UF:176:SER:H	1.64	0.45
3:UF:269:GLY:N	3:UF:367:PHE:O	2.50	0.45
4:UG:99:ALA:HB3	4:UG:144:GLY:O	2.16	0.45
4:UK:1:MET:HE3	4:UK:50:ASN:ND2	2.31	0.45
3:UL:273:LEU:H	3:UL:292:GLN:NE2	2.12	0.45
33:V:517:ILE:O	33:V:521:LYS:HG2	2.16	0.45
4:VA:386:GLU:O	4:VA:390:ARG:N	2.43	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VB:11:GLN:HG3	39:VB:501:GTP:PA	2.55	0.45
3:VB:12:CYS:SG	39:VB:501:GTP:H5'	2.57	0.45
3:VB:167:PHE:HD1	3:VB:200:TYR:CD2	2.35	0.45
4:VC:145:THR:HG23	39:VC:501:GTP:O3B	2.14	0.45
4:VC:145:THR:OG1	39:VC:501:GTP:O1B	2.31	0.45
4:VG:324:VAL:HG21	3:VH:219:THR:HG22	1.98	0.45
4:VI:11:GLN:O	4:VI:14:VAL:HG22	2.17	0.45
4:VI:331:ALA:O	4:VI:334:THR:OG1	2.28	0.45
4:VK:405:VAL:O	4:VK:409:VAL:HG22	2.17	0.45
4:VK:415:GLU:O	4:VK:419:SER:N	2.41	0.45
33:W:183:LEU:O	33:W:187:GLN:HG2	2.16	0.45
3:WB:156:ARG:NE	3:WB:164:MET:HE3	2.31	0.45
3:WD:118:ASP:HA	3:WD:121:ARG:HG2	1.98	0.45
4:WE:329:ASN:HA	4:WE:332:ILE:HG12	1.97	0.45
3:WF:152:ILE:O	3:WF:156:ARG:HG2	2.16	0.45
4:WI:285:GLN:NE2	4:WI:286:LEU:O	2.49	0.45
3:WJ:7:LEU:HD13	3:WJ:64:VAL:HB	1.97	0.45
3:WJ:73:MET:HE1	3:WJ:92:PHE:HB3	1.97	0.45
39:WJ:501:GTP:O3G	39:WJ:501:GTP:O3'	2.23	0.45
4:WK:53:PHE:HD1	4:WK:63:PRO:HA	1.81	0.45
4:WK:132:LEU:O	4:WK:132:LEU:HD12	2.16	0.45
4:WK:246:GLY:HA3	4:WK:355:ILE:O	2.17	0.45
4:WK:422:ARG:CZ	4:WK:422:ARG:HB3	2.46	0.45
4:WK:434:GLU:HA	4:WK:437:VAL:HG12	1.98	0.45
33:X:421:ARG:O	33:X:425:LEU:HG	2.17	0.45
34:XE:14:LEU:HB2	34:XE:25:TRP:CZ2	2.52	0.45
34:XE:78:MET:SD	34:XE:165:VAL:HG13	2.56	0.45
35:XH:78:ILE:HG22	35:XH:113:ARG:HE	1.81	0.45
35:XI:141:LEU:HB3	35:XI:180:ILE:HD13	1.98	0.45
35:XI:188:ASN:ND2	35:XI:206:GLY:H	2.13	0.45
35:XL:78:ILE:HG22	35:XL:113:ARG:HE	1.81	0.45
35:XL:103:MET:HE3	35:XL:148:ILE:HD13	1.98	0.45
35:XL:125:LYS:HB3	35:XL:125:LYS:HE2	1.72	0.45
37:YA:140:LEU:O	37:YA:144:VAL:HG23	2.15	0.45
37:YD:20:GLN:NE2	37:YD:21:GLN:HG3	2.32	0.45
37:YE:4:VAL:HG21	37:YE:82:HIS:ND1	2.32	0.45
37:YO:117:TYR:CD1	37:YO:118:PRO:HA	2.51	0.45
37:YP:49:VAL:HG12	37:YP:70:MET:HE2	1.97	0.45
37:YP:90:THR:N	37:YP:93:THR:OG1	2.49	0.45
2:A1:224:ASN:HA	2:A1:227:LYS:HE2	1.97	0.45
2:A2:149:LEU:HD21	17:I2:58:GLU:HG3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A3:224:ASN:HA	2:A3:227:LYS:HE2	1.97	0.45
4:AC:427:ALA:HA	4:AC:430:LYS:HG2	1.98	0.45
4:AE:154:MET:HA	4:AE:157:LEU:HG	1.98	0.45
4:AG:118:VAL:HA	4:AG:121:ARG:HG2	1.98	0.45
4:AG:204:VAL:HG22	4:AG:209:ILE:HD11	1.99	0.45
4:AG:402:ARG:CZ	35:XJ:234:THR:HG23	2.46	0.45
4:AI:141:PHE:CZ	4:AI:170:ALA:HB3	2.52	0.45
3:AJ:11:GLN:HG3	39:AJ:501:GTP:PA	2.56	0.45
3:AJ:217:LEU:HD11	3:AJ:220:PRO:HB3	1.97	0.45
3:AJ:267:MET:SD	3:AJ:267:MET:N	2.89	0.45
3:AL:223:GLY:HA2	3:AL:226:ASN:OD1	2.16	0.45
4:AM:312:TYR:HE2	4:AM:341:ILE:HD11	1.81	0.45
1:B:327:GLU:O	1:B:331:ILE:HG13	2.16	0.45
5:B3:7:LYS:HZ1	8:D4:329:ILE:HB	1.81	0.45
5:B3:360:GLN:HG3	8:D2:237:GLN:OE1	2.16	0.45
5:B6:11:ARG:HB3	5:B7:130:ARG:HH12	1.80	0.45
5:B7:134:GLU:HA	5:B7:137:LEU:HD12	1.99	0.45
5:B7:164:LEU:O	5:B7:167:GLU:HG3	2.16	0.45
4:BC:216:ASN:OD1	4:BC:217:LEU:N	2.50	0.45
3:BD:48:ASN:HD21	15:H2:23:PHE:HB2	1.82	0.45
4:BE:81:GLY:O	4:BE:84:ARG:NH1	2.49	0.45
4:BE:186:ASN:OD1	4:BE:187:SER:N	2.49	0.45
4:BE:223:THR:OG1	4:BE:225:THR:OG1	2.26	0.45
4:BE:324:VAL:HG21	3:BF:219:THR:HG22	1.98	0.45
3:BF:257:MET:O	3:BF:259:PRO:HD3	2.16	0.45
4:BG:346:TRP:N	4:BG:346:TRP:CD1	2.84	0.45
3:BH:314:ALA:HB3	3:BH:368:ILE:HG23	1.98	0.45
4:BK:47:ASP:O	4:BK:49:PHE:N	2.50	0.45
3:BL:150:LEU:O	3:BL:153:SER:OG	2.26	0.45
7:C1:94:TYR:H	7:C2:212:HIS:H	1.65	0.45
7:C2:131:LYS:HA	7:C2:134:GLN:HE21	1.81	0.45
7:C2:433:THR:HA	7:C2:436:GLN:CD	2.41	0.45
7:C3:218:GLU:O	7:C3:339:GLN:NE2	2.50	0.45
7:C3:406:ARG:NH1	7:C3:412:CYS:H	2.14	0.45
7:C4:260:ASP:OD1	7:C4:261:LYS:N	2.50	0.45
7:C4:321:LEU:O	7:C4:325:THR:HG23	2.16	0.45
7:C7:363:THR:HG22	7:C7:367:LYS:HZ1	1.81	0.45
7:C7:373:PHE:HA	7:C7:376:GLU:OE1	2.16	0.45
7:C8:417:GLN:O	7:C8:421:VAL:HG13	2.17	0.45
7:C9:375:ILE:O	7:C9:379:ILE:HG13	2.16	0.45
4:CG:88:HIS:HE1	4:CG:90:GLU:HG2	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CG:244:PHE:CE2	4:CG:358:GLN:HG2	2.51	0.45
4:CG:272:TYR:CE1	4:CG:374:ALA:HB1	2.51	0.45
4:CI:154:MET:HE2	4:CI:194:THR:HG22	1.98	0.45
3:CJ:306:ARG:O	3:CJ:306:ARG:NE	2.45	0.45
3:CJ:324:LYS:HE2	4:CK:222:PRO:CD	2.46	0.45
4:CK:6:SER:HA	4:CK:136:LEU:HB2	1.99	0.45
4:CK:143:GLY:HA3	4:CK:147:SER:H	1.81	0.45
4:CM:399:TYR:OH	4:CM:415:GLU:HB2	2.17	0.45
7:Ca:401:ASP:HB2	7:Cb:284:PHE:CE1	2.52	0.45
7:Ca:423:GLU:OE1	7:Cb:138:THR:HB	2.16	0.45
7:Cd:218:GLU:HB3	7:Cd:343:VAL:HG22	1.97	0.45
8:D3:125:SER:O	8:D3:128:THR:OG1	2.29	0.45
8:D3:153:THR:O	8:D3:156:LEU:HG	2.16	0.45
8:D3:431:MET:H	8:D3:431:MET:HE3	1.82	0.45
8:D7:90:ALA:C	8:D7:94:ARG:HE	2.22	0.45
8:D8:272:ARG:NH2	8:D8:273:LEU:HG	2.31	0.45
8:D9:88:THR:O	8:D9:91:LEU:HG	2.17	0.45
8:D9:332:GLN:O	8:D9:336:ILE:HG13	2.17	0.45
3:DB:31:ASP:OD1	3:DB:35:THR:N	2.49	0.45
4:DG:88:HIS:HB3	4:DG:91:GLN:HB2	1.99	0.45
3:DH:6:HIS:HB3	3:DH:21:TRP:HZ2	1.81	0.45
3:DH:52:ASN:OD1	3:DH:62:ARG:NH1	2.49	0.45
3:DH:70:PRO:HA	3:DH:73:MET:HE3	1.99	0.45
3:DH:250:LEU:HD13	3:DH:253:LEU:HD12	1.97	0.45
4:DI:12:ALA:HB1	39:DI:501:GTP:C2	2.51	0.45
4:DI:320:ARG:N	4:DI:374:ALA:O	2.47	0.45
3:DJ:113:VAL:HB	3:DJ:154:LYS:HE3	1.98	0.45
3:DJ:378:PHE:CD1	3:DJ:419:VAL:HG22	2.50	0.45
4:DK:418:PHE:O	4:DK:422:ARG:NH2	2.50	0.45
3:EB:77:ARG:O	3:EB:77:ARG:NH1	2.39	0.45
3:EB:330:MET:CG	3:EB:349:VAL:HG11	2.47	0.45
4:EC:324:VAL:HG11	3:ED:219:THR:HB	1.98	0.45
3:ED:16:ILE:HD13	3:ED:226:ASN:ND2	2.31	0.45
4:EE:91:GLN:HG3	4:EE:121:ARG:HH21	1.82	0.45
4:EE:255:PHE:O	4:EE:259:LEU:HB2	2.17	0.45
3:EF:47:ILE:HG12	3:EF:59:TYR:CD2	2.52	0.45
4:EI:322:ASP:OD2	4:EI:373:ARG:NH2	2.50	0.45
4:EK:316:CYS:O	4:EK:378:LEU:N	2.40	0.45
4:EK:363:VAL:H	4:EK:368:LEU:HD21	1.82	0.45
3:EL:209:ASP:O	3:EL:213:ARG:N	2.49	0.45
3:EL:300:MET:N	3:EL:300:MET:SD	2.89	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:F5:145:ARG:HH22	11:F6:413:GLN:NE2	2.15	0.45
11:F6:110:ARG:NH1	11:F7:367:GLU:HB2	2.32	0.45
11:F7:137:GLY:HA2	11:F7:140:ARG:HE	1.82	0.45
11:F7:295:THR:HA	11:F7:298:LYS:HE3	1.98	0.45
11:F7:311:ARG:O	11:F7:315:ILE:HG12	2.17	0.45
11:F8:413:GLN:HG3	11:F8:414:PHE:H	1.81	0.45
4:FA:216:ASN:ND2	4:FA:275:VAL:HG23	2.32	0.45
4:FA:315:CYS:N	4:FA:350:GLY:O	2.47	0.45
4:FC:105:ARG:O	4:FC:109:THR:OG1	2.29	0.45
4:FC:405:VAL:O	4:FC:409:VAL:HG22	2.17	0.45
3:FD:56:GLY:O	3:FD:58:LYS:NZ	2.50	0.45
4:FE:51:THR:HG23	4:FE:52:PHE:HD2	1.82	0.45
4:FG:226:ASN:O	4:FG:230:LEU:HG	2.16	0.45
3:FH:2:ARG:HA	3:FH:129:CYS:O	2.16	0.45
3:FH:52:ASN:CG	3:FH:62:ARG:HD3	2.42	0.45
3:FH:133:PHE:N	3:FH:163:ILE:O	2.39	0.45
4:FI:67:PHE:HB2	4:FI:92:LEU:HD13	1.99	0.45
4:FI:196:GLU:OE1	4:FI:196:GLU:N	2.43	0.45
4:FI:333:ALA:HA	4:FI:336:LYS:HD2	1.98	0.45
3:FJ:20:PHE:CD1	3:FJ:233:MET:HG3	2.52	0.45
3:FJ:23:VAL:O	3:FJ:27:GLU:N	2.42	0.45
3:FJ:114:ASP:OD1	3:FJ:115:SER:N	2.49	0.45
3:FJ:305:PRO:HB2	3:FJ:310:TYR:HE1	1.82	0.45
4:FK:81:GLY:O	4:FK:84:ARG:NH1	2.50	0.45
11:Fc:120:SER:C	11:Fc:124:MET:HE3	2.41	0.45
11:Ff:390:LYS:HG3	11:Ff:393:GLN:HE21	1.81	0.45
11:Fi:434:LEU:O	11:Fi:438:GLN:HG2	2.16	0.45
11:Fi:439:ASP:O	11:Fi:443:LEU:HG	2.16	0.45
11:Fi:466:LYS:NZ	11:Fi:470:MET:HB2	2.32	0.45
12:G:68:GLN:HG3	12:G:72:HIS:HE1	1.80	0.45
12:G:211:ALA:HA	12:G:214:ARG:CZ	2.46	0.45
12:G:363:LEU:O	12:G:367:ILE:HG12	2.16	0.45
13:G2:429:PRO:HA	14:G6:644:TYR:CE1	2.51	0.45
14:G5:4:PRO:HG2	14:G5:6:LEU:HG	1.98	0.45
14:G5:393:TYR:OH	14:G5:406:CYS:SG	2.57	0.45
14:G5:721:TRP:NE1	14:G5:725:PRO:HD2	2.32	0.45
3:GB:254:ALA:HA	3:GB:257:MET:HB3	1.99	0.45
3:GB:415:MET:HA	3:GB:418:LEU:HB2	1.97	0.45
3:GD:8:GLN:NE2	3:GD:17:GLY:HA3	2.31	0.45
4:GG:121:ARG:HA	4:GG:121:ARG:HD2	1.80	0.45
4:GI:136:LEU:HB3	4:GI:138:PHE:CE2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:GI:161:TYR:HB3	4:GI:164:LYS:HZ3	1.81	0.45
4:GI:411:GLU:OE2	4:GI:413:MET:HE1	2.17	0.45
3:GJ:262:ARG:HH22	3:GJ:417:ASP:CG	2.24	0.45
4:GK:11:GLN:O	4:GK:14:VAL:HG22	2.17	0.45
4:GK:102:ASN:HB3	4:GK:105:ARG:HB2	1.99	0.45
15:H2:249:LYS:HA	15:H2:252:PHE:HD2	1.82	0.45
15:H4:17:ILE:HD12	15:H4:17:ILE:H	1.80	0.45
15:H5:250:ASN:HB2	15:H5:254:PHE:CE2	2.52	0.45
3:HB:52:ASN:CG	3:HB:62:ARG:HD3	2.41	0.45
4:HC:254:GLU:OE1	4:HC:254:GLU:N	2.47	0.45
3:HD:374:ILE:HG22	3:HD:378:PHE:CE2	2.52	0.45
4:HE:272:TYR:CE1	4:HE:374:ALA:HB1	2.52	0.45
4:HG:119:LEU:HD23	4:HG:122:ILE:HD11	1.98	0.45
3:HH:172:SER:OG	3:HH:205:GLU:OE2	2.31	0.45
4:HI:13:GLY:HA2	4:HI:16:ILE:HG12	1.97	0.45
4:HI:260:VAL:HG23	4:HI:265:ILE:O	2.17	0.45
4:HK:239:THR:OG1	4:HK:243:ARG:NH1	2.49	0.45
3:HL:216:LYS:HB2	3:HL:276:ARG:HH11	1.81	0.45
17:I1:40:SER:N	17:I1:43:ASN:HD22	2.15	0.45
17:I1:51:ASP:HA	17:I1:54:ASN:HB2	1.98	0.45
4:IA:329:ASN:HA	4:IA:332:ILE:HG12	1.98	0.45
4:IC:113:GLU:OE1	4:IC:113:GLU:N	2.46	0.45
4:IE:145:THR:HB	4:IE:149:PHE:CE2	2.51	0.45
3:IF:222:TYR:HA	3:IF:225:LEU:HD13	1.99	0.45
4:IG:117:LEU:O	4:IG:121:ARG:HG2	2.16	0.45
3:IH:40:SER:HB3	3:IH:42:LEU:HD23	1.98	0.45
3:IJ:374:ILE:HG22	3:IJ:378:PHE:CE2	2.51	0.45
4:IK:2:ARG:HA	4:IK:133:GLN:NE2	2.31	0.45
4:IK:272:TYR:HD2	4:IK:275:VAL:HG13	1.81	0.45
4:IK:295:CYS:HB2	4:IK:377:MET:HE3	1.97	0.45
3:IL:180:VAL:HA	3:IL:183:TYR:CD1	2.51	0.45
19:J3:153:ILE:HA	19:J3:156:GLU:OE1	2.16	0.45
19:J3:179:TYR:O	19:J3:182:GLU:N	2.50	0.45
4:JA:119:LEU:HD23	4:JA:122:ILE:HD12	1.99	0.45
4:JA:315:CYS:O	4:JA:351:PHE:HA	2.17	0.45
3:JB:313:VAL:O	3:JB:349:VAL:HA	2.17	0.45
4:JC:287:SER:OG	4:JC:290:GLU:OE1	2.30	0.45
3:JF:87:PRO:HA	3:JF:90:PHE:CD2	2.51	0.45
3:JF:269:GLY:HA3	3:JF:367:PHE:HB3	1.99	0.45
4:JG:102:ASN:HD22	4:JG:105:ARG:NH1	2.15	0.45
4:JI:3:GLU:CD	4:JI:132:LEU:H	2.24	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:JI:160:ASP:OD1	4:JI:161:TYR:N	2.49	0.45
3:JL:238:THR:HB	3:JL:242:PHE:HD2	1.82	0.45
3:JL:292:GLN:HA	3:JL:295:ASP:OD2	2.16	0.45
20:K:20:TYR:O	20:K:23:GLU:N	2.49	0.45
20:K:165:LEU:O	20:K:196:TRP:HZ2	2.00	0.45
21:K1:371:MET:HA	21:K1:374:THR:HB	1.97	0.45
21:K4:160:ALA:HA	21:K4:163:ARG:HH11	1.81	0.45
21:K4:211:ARG:HH11	21:K4:212:LYS:HD3	1.81	0.45
21:K4:434:LYS:O	21:K4:437:ARG:HG2	2.15	0.45
21:K5:26:LYS:HZ2	21:K5:30:ARG:HH21	1.63	0.45
4:KA:3:GLU:OE2	4:KA:130:THR:N	2.33	0.45
4:KA:220:GLU:HG2	4:KA:221:ARG:HG2	1.99	0.45
3:KB:83:GLN:O	3:KB:86:ARG:NH2	2.49	0.45
3:KB:318:ARG:C	3:KB:321:MET:HE1	2.42	0.45
4:KC:207:GLU:HB2	4:KC:304:LYS:NZ	2.27	0.45
4:KC:272:TYR:HD2	4:KC:275:VAL:HG13	1.81	0.45
4:KC:280:LYS:O	4:KC:284:GLU:HB2	2.16	0.45
3:KD:52:ASN:CG	3:KD:62:ARG:HD3	2.42	0.45
4:KE:263:PRO:HD3	3:KF:396:HIS:CD2	2.51	0.45
4:KG:88:HIS:O	4:KG:91:GLN:HB3	2.17	0.45
4:KI:70:LEU:HB3	4:KI:97:GLU:O	2.17	0.45
3:KL:3:GLU:OE2	3:KL:127:CYS:HB2	2.15	0.45
20:L:94:CYS:O	20:L:115:SER:N	2.46	0.45
20:L:261:GLU:CD	20:L:265:ASN:HB2	2.41	0.45
22:L1:124:ILE:O	4:LC:113:GLU:HB3	2.17	0.45
22:L2:158:ILE:HD12	22:L2:161:ARG:HB2	1.97	0.45
22:L2:248:LYS:HB2	36:Y:40:GLN:O	2.17	0.45
22:L3:31:PHE:HZ	4:MI:386:GLU:HB2	1.81	0.45
22:L3:109:ASN:HD21	3:LJ:262:ARG:HH22	1.64	0.45
3:LB:151:LEU:O	3:LB:155:ILE:HG12	2.16	0.45
3:LB:376:GLU:HG2	3:LB:379:LYS:HE3	1.98	0.45
3:LD:130:LEU:HB2	3:LD:162:ARG:HH11	1.82	0.45
4:LE:154:MET:HA	4:LE:157:LEU:HG	1.98	0.45
4:LE:438:ASP:C	3:LF:391:ARG:HH12	2.25	0.45
3:LF:32:PRO:C	3:LF:83:GLN:HE21	2.23	0.45
3:LF:206:ALA:O	3:LF:210:ILE:HG12	2.16	0.45
3:LF:316:VAL:HG22	3:LF:352:ALA:HB3	1.98	0.45
4:LG:81:GLY:O	4:LG:84:ARG:NH1	2.49	0.45
4:LG:239:THR:OG1	4:LG:243:ARG:NH1	2.49	0.45
3:LH:255:VAL:HA	4:LI:407:TRP:CE2	2.51	0.45
3:LJ:360:GLY:HA2	27:R:245:ASN:ND2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LJ:374:ILE:HG22	3:LJ:378:PHE:CE2	2.52	0.45
4:LK:273:ALA:O	4:LK:275:VAL:N	2.47	0.45
3:LL:111:GLU:HG2	3:LL:112:LEU:HD12	1.98	0.45
3:MB:241:ARG:NH1	3:MB:242:PHE:CE1	2.85	0.45
4:MC:10:GLY:O	4:MC:14:VAL:HG13	2.16	0.45
4:MC:73:THR:O	4:MC:77:GLU:HG3	2.16	0.45
3:MD:299:MET:HE1	3:MD:304:ASP:OD1	2.17	0.45
3:MF:11:GLN:O	3:MF:15:GLN:NE2	2.50	0.45
3:MF:101:TRP:HB2	3:MF:184:ASN:HD22	1.81	0.45
3:MH:392:LYS:HD2	3:MH:392:LYS:O	2.17	0.45
4:MI:196:GLU:HG2	4:MI:197:HIS:ND1	2.32	0.45
3:MJ:138:SER:HB3	39:MJ:501:GTP:H5"	1.99	0.45
4:MK:141:PHE:HB2	4:MK:173:PRO:HD3	1.98	0.45
4:MK:245:ASP:OD1	4:MK:249:ASN:ND2	2.47	0.45
3:ML:16:ILE:HG12	3:ML:226:ASN:HD22	1.80	0.45
26:N3:88:ASN:O	26:N3:92:ILE:N	2.49	0.45
3:NB:4:ILE:HB	3:NB:50:TYR:CE1	2.52	0.45
3:ND:6:HIS:HB3	3:ND:21:TRP:HZ2	1.82	0.45
3:ND:206:ALA:O	3:ND:210:ILE:HG12	2.16	0.45
4:NE:280:LYS:HD2	4:NE:280:LYS:HA	1.75	0.45
4:NG:113:GLU:OE1	4:NG:113:GLU:N	2.49	0.45
3:NH:6:HIS:HB3	3:NH:21:TRP:HZ2	1.80	0.45
3:NJ:324:LYS:HD2	4:NK:221:ARG:HA	1.99	0.45
3:NL:183:TYR:CZ	3:NL:395:LEU:HD21	2.52	0.45
3:NL:302:ALA:HB1	3:NL:377:LEU:HD11	1.99	0.45
3:OB:47:ILE:HG21	3:OB:59:TYR:CZ	2.51	0.45
3:OB:206:ALA:O	3:OB:210:ILE:HG12	2.16	0.45
4:OC:68:VAL:HG12	4:OC:93:ILE:HB	1.98	0.45
4:OE:423:GLU:O	4:OE:427:ALA:N	2.40	0.45
3:OF:394:PHE:HA	3:OF:397:TRP:HZ3	1.81	0.45
4:OG:312:TYR:O	4:OG:344:VAL:HG22	2.16	0.45
3:OH:328:GLU:OE1	3:OH:332:ASN:ND2	2.49	0.45
4:OI:271:THR:HB	4:OI:377:MET:HB2	1.97	0.45
4:OI:331:ALA:O	4:OI:335:ILE:HG12	2.16	0.45
4:OK:254:GLU:OE1	4:OK:254:GLU:N	2.43	0.45
29:P1:15:GLU:HG2	29:P1:615:LYS:HB3	1.98	0.45
29:P1:188:ASP:OD1	29:P1:190:PRO:HD2	2.17	0.45
4:PA:36:MET:HG3	4:PA:41:THR:OG1	2.17	0.45
3:PB:173:PRO:HD3	3:PB:203:ASP:OD1	2.17	0.45
3:PB:206:ALA:O	3:PB:210:ILE:HG12	2.17	0.45
4:PC:34:GLY:HA3	4:PC:60:LYS:HD2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PD:87:PRO:HA	3:PD:90:PHE:CD2	2.51	0.45
3:PF:87:PRO:HA	3:PF:90:PHE:CD2	2.52	0.45
3:PF:130:LEU:HB2	3:PF:162:ARG:HH11	1.81	0.45
3:PF:151:LEU:O	3:PF:155:ILE:HG23	2.16	0.45
4:PG:186:ASN:OD1	4:PG:187:SER:N	2.50	0.45
4:PG:279:GLU:O	4:PG:283:HIS:HD2	1.99	0.45
4:PG:317:MET:HE1	4:PG:351:PHE:HD1	1.80	0.45
3:PH:246:LEU:HD22	3:PH:354:CYS:HA	1.97	0.45
3:PH:415:MET:HA	3:PH:418:LEU:HB2	1.98	0.45
3:PJ:117:LEU:HB3	3:PJ:121:ARG:NH2	2.32	0.45
3:PJ:246:LEU:HB2	3:PJ:352:ALA:HB1	1.97	0.45
4:PK:68:VAL:HA	4:PK:93:ILE:HB	1.98	0.45
4:PK:157:LEU:HD11	4:PK:166:LYS:HG3	1.98	0.45
4:PM:5:ILE:HD13	4:PM:64:ARG:HB3	1.98	0.45
27:Q:126:ILE:HD12	27:Q:126:ILE:H	1.81	0.45
30:Q1:1381:GLN:HB3	30:Q1:1385:LYS:HG2	1.97	0.45
30:Q2:1345:ARG:NH1	30:Q2:1349:GLU:OE2	2.49	0.45
30:Q2:1410:LYS:HZ2	30:Q2:1418:MET:HB2	1.81	0.45
3:QB:32:PRO:HA	3:QB:81:PHE:CE1	2.51	0.45
3:QB:142:GLY:N	39:QB:501:GTP:O3B	2.49	0.45
3:QD:12:CYS:HA	39:QD:501:GTP:N2	2.32	0.45
3:QD:271:ALA:HB2	3:QD:365:ALA:H	1.82	0.45
4:QE:203:MET:CE	4:QE:267:PHE:HB3	2.47	0.45
3:QF:285:THR:O	3:QF:288:GLU:HG3	2.16	0.45
3:QH:118:ASP:HA	3:QH:121:ARG:HE	1.81	0.45
4:QI:88:HIS:HB3	4:QI:91:GLN:CG	2.46	0.45
4:QK:36:MET:HE3	4:QK:37:PRO:HD3	1.97	0.45
4:QK:272:TYR:HE1	4:QK:374:ALA:HB1	1.81	0.45
27:R:326:GLN:O	27:R:330:LEU:HG	2.17	0.45
3:RB:77:ARG:HD3	3:RB:90:PHE:HE2	1.81	0.45
4:RC:46:ASP:HA	4:RC:50:ASN:HB3	1.98	0.45
4:RC:371:VAL:HG11	4:RC:374:ALA:HB2	1.99	0.45
3:RD:51:TYR:CD1	3:RD:61:PRO:HA	2.51	0.45
4:RG:172:TYR:HD1	4:RG:203:MET:HG2	1.81	0.45
3:RH:272:PRO:HA	3:RH:292:GLN:OE1	2.15	0.45
3:RJ:342:VAL:HB	3:RJ:344:TRP:HE3	1.80	0.45
4:RM:9:VAL:HA	4:RM:68:VAL:HG23	1.98	0.45
4:SC:419:SER:O	4:SC:422:ARG:HG2	2.17	0.45
3:SD:32:PRO:HA	3:SD:81:PHE:CE1	2.52	0.45
4:SE:223:THR:OG1	4:SE:225:THR:OG1	2.19	0.45
4:SE:280:LYS:O	4:SE:284:GLU:HB2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:SE:319:TYR:N	4:SE:354:GLY:O	2.45	0.45
3:SH:238:THR:HG21	3:SH:318:ARG:CZ	2.47	0.45
3:SH:268:PRO:HD2	3:SH:301:ALA:HB2	1.99	0.45
3:SH:415:MET:O	3:SH:419:VAL:HG23	2.16	0.45
3:SJ:2:ARG:HH12	3:SJ:251:ARG:NH2	2.14	0.45
3:SJ:39:ASP:OD1	3:SJ:39:ASP:N	2.48	0.45
3:SJ:70:PRO:HA	3:SJ:73:MET:HE2	1.99	0.45
3:SL:239:CYS:SG	3:SL:316:VAL:HG11	2.57	0.45
4:SM:165:SER:C	4:SM:166:LYS:HD2	2.42	0.45
4:SM:390:ARG:HA	4:SM:393:HIS:CD2	2.52	0.45
3:TB:39:ASP:OD1	3:TB:39:ASP:N	2.49	0.45
3:TB:141:GLY:HA3	39:TB:501:GTP:H5"	1.98	0.45
3:TD:389:PHE:HE1	3:TD:408:PHE:CD2	2.34	0.45
4:TE:45:GLY:HA2	4:TE:49:PHE:HE1	1.80	0.45
3:TF:81:PHE:O	3:TF:84:ILE:HG22	2.16	0.45
3:TF:104:GLY:HA2	3:TF:108:GLU:HB2	1.99	0.45
3:TF:197:ASP:OD1	3:TF:198:GLU:N	2.50	0.45
4:TG:346:TRP:NE1	4:TG:438:ASP:OD1	2.43	0.45
4:TI:386:GLU:HA	4:TI:389:ALA:HB3	1.98	0.45
3:TL:250:LEU:HD13	3:TL:253:LEU:HD12	1.99	0.45
4:TM:2:ARG:HA	4:TM:133:GLN:NE2	2.32	0.45
33:U:238:GLU:HA	33:U:241:GLN:HB2	1.99	0.45
33:U:395:GLN:HE22	3:UD:359:ARG:HE	1.65	0.45
4:UA:220:GLU:HG2	4:UA:221:ARG:HG2	1.98	0.45
4:UA:417:GLU:OE1	4:UA:417:GLU:N	2.31	0.45
3:UB:289:LEU:O	3:UB:293:MET:HG2	2.15	0.45
4:UG:336:LYS:HE2	3:UH:175:VAL:HG21	1.98	0.45
3:UJ:58:LYS:HE2	3:VJ:281:TYR:HE1	1.81	0.45
3:UJ:130:LEU:HB2	3:UJ:162:ARG:NH1	2.31	0.45
3:UJ:345:ILE:HD11	4:UK:181:VAL:HG11	1.99	0.45
3:VB:130:LEU:HB2	3:VB:162:ARG:HH11	1.82	0.45
4:VE:104:ALA:O	4:VE:108:TYR:N	2.48	0.45
4:VG:7:ILE:HB	4:VG:137:ILE:HA	1.99	0.45
3:VH:131:GLN:HB3	3:VH:163:ILE:HD12	1.98	0.45
4:VI:295:CYS:CB	4:VI:377:MET:HE3	2.45	0.45
3:VJ:218:THR:OG1	3:VJ:219:THR:N	2.49	0.45
4:VK:388:TRP:HB3	4:VK:425:LEU:HD11	1.98	0.45
4:WA:235:VAL:HA	4:WA:238:ILE:HG12	1.97	0.45
4:WA:417:GLU:O	4:WA:420:GLU:HG2	2.16	0.45
3:WB:4:ILE:HB	3:WB:50:TYR:CE1	2.51	0.45
4:WC:287:SER:N	4:WC:290:GLU:OE2	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:WD:394:PHE:HA	3:WD:397:TRP:HZ3	1.82	0.45
4:WE:204:VAL:HG22	4:WE:209:ILE:HD11	1.98	0.45
4:WE:260:VAL:O	3:WF:397:TRP:HH2	1.99	0.45
3:WH:21:TRP:CZ2	3:WH:63:ALA:HB2	2.52	0.45
3:WH:379:LYS:O	3:WH:382:SER:OG	2.20	0.45
4:WK:420:GLU:HA	4:WK:423:GLU:OE2	2.17	0.45
3:WL:51:TYR:CD1	3:WL:61:PRO:HA	2.51	0.45
3:WL:316:VAL:HG22	3:WL:352:ALA:HB3	1.97	0.45
33:X:409:ASN:O	33:X:412:LYS:HG2	2.17	0.45
34:XA:59:ILE:CG2	34:XA:156:ILE:HB	2.46	0.45
35:XK:88:ASP:OD1	35:XK:90:HIS:N	2.41	0.45
35:XK:135:ILE:HD13	35:XK:138:LYS:HZ3	1.80	0.45
37:YB:28:ALA:HB3	37:YB:65:ILE:HD11	1.98	0.45
37:YG:125:LEU:HB3	37:YG:130:ALA:HB2	1.98	0.45
37:YN:3:GLU:HA	37:YN:6:GLU:HB3	1.98	0.45
37:YN:18:PHE:HA	37:YN:21:GLN:HB2	1.98	0.45
37:YR:4:VAL:HG11	37:YR:83:PHE:HZ	1.80	0.45
37:YR:140:LEU:HD12	37:YR:141:ILE:HG13	1.98	0.45
37:YT:76:LEU:O	37:YT:80:CYS:N	2.49	0.45
37:YU:7:SER:O	37:YU:10:SER:OG	2.33	0.45
2:A2:90:ASP:O	2:A2:93:THR:OG1	2.33	0.45
2:A2:180:THR:O	2:A2:180:THR:HG22	2.16	0.45
4:AC:122:ILE:O	4:AC:126:ALA:N	2.48	0.45
4:AC:160:ASP:OD1	4:AC:161:TYR:N	2.50	0.45
4:AC:390:ARG:HA	4:AC:393:HIS:CD2	2.52	0.45
3:AD:330:MET:HG3	3:AD:349:VAL:HG11	1.98	0.45
3:AH:192:LEU:O	3:AH:196:THR:N	2.47	0.45
3:AH:266:PHE:HD1	3:AH:370:ASN:OD1	2.00	0.45
3:AH:324:LYS:HE2	4:AI:222:PRO:CD	2.47	0.45
3:AH:394:PHE:HA	3:AH:397:TRP:HZ3	1.81	0.45
4:AI:201:ALA:HB3	4:AI:267:PHE:HD1	1.80	0.45
3:AJ:323:MET:HE1	4:AK:223:THR:HA	1.97	0.45
3:AL:317:PHE:O	3:AL:354:CYS:N	2.42	0.45
4:AM:66:VAL:HG12	4:AM:68:VAL:HG13	1.99	0.45
4:AM:252:LEU:HA	4:AM:255:PHE:CD2	2.52	0.45
5:B1:281:TRP:CD1	5:B1:285:ASN:HD21	2.34	0.45
5:B7:283:GLU:O	5:B7:287:LEU:HG	2.16	0.45
5:B8:74:TRP:O	5:B8:77:THR:OG1	2.26	0.45
3:BB:12:CYS:O	3:BB:16:ILE:HG12	2.15	0.45
3:BB:299:MET:SD	3:BB:300:MET:N	2.90	0.45
4:BC:71:GLU:OE1	4:BC:71:GLU:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BD:12:CYS:SG	39:BD:501:GTP:H5'	2.56	0.45
3:BD:117:LEU:HB3	3:BD:121:ARG:NH2	2.31	0.45
4:BE:415:GLU:OE1	4:BE:415:GLU:N	2.46	0.45
3:BF:3:GLU:HG2	3:BF:130:LEU:HD13	1.98	0.45
3:BF:240:LEU:HD13	3:BF:248:ALA:HB1	1.99	0.45
4:BG:105:ARG:HG2	4:BG:109:THR:HG21	1.99	0.45
4:BG:154:MET:HA	4:BG:157:LEU:HG	1.99	0.45
4:BG:165:SER:C	4:BG:166:LYS:HD2	2.41	0.45
4:BI:105:ARG:O	4:BI:109:THR:OG1	2.22	0.45
3:BJ:412:GLU:OE1	3:BJ:416:ASN:ND2	2.46	0.45
4:BK:141:PHE:HB2	4:BK:173:PRO:HD3	1.98	0.45
3:BL:69:GLU:C	3:BL:73:MET:HE3	2.42	0.45
4:BM:280:LYS:O	4:BM:284:GLU:HB2	2.17	0.45
7:C7:147:GLY:O	7:C7:150:VAL:HG12	2.15	0.45
7:C7:222:GLU:OE2	7:C7:339:GLN:HB3	2.17	0.45
7:C8:310:ARG:HG3	10:E3:50:LYS:NZ	2.32	0.45
7:C9:163:GLU:O	7:C9:167:MET:HG2	2.17	0.45
7:C9:302:LYS:HE3	10:E4:44:LYS:HE2	1.99	0.45
3:CB:48:ASN:ND2	3:CB:51:TYR:O	2.50	0.45
3:CB:134:GLN:HA	3:CB:165:ASN:O	2.16	0.45
3:CB:285:THR:O	3:CB:288:GLU:HG3	2.16	0.45
3:CD:11:GLN:O	3:CD:15:GLN:NE2	2.50	0.45
3:CD:45:GLU:OE1	3:CD:46:ARG:HG2	2.16	0.45
4:CE:1:MET:HE3	4:CE:50:ASN:ND2	2.32	0.45
4:CE:3:GLU:CD	4:CE:131:GLY:H	2.25	0.45
4:CE:89:PRO:HD2	4:DC:280:LYS:HZ2	1.80	0.45
4:CE:331:ALA:O	4:CE:335:ILE:HG12	2.16	0.45
4:CE:411:GLU:OE2	4:CE:413:MET:HE1	2.16	0.45
3:CF:318:ARG:C	3:CF:321:MET:HE1	2.41	0.45
3:CF:414:ASN:O	3:CF:418:LEU:HG	2.17	0.45
3:CJ:52:ASN:CG	3:CJ:62:ARG:HH11	2.24	0.45
3:CJ:165:ASN:OD1	3:CJ:166:THR:N	2.49	0.45
3:CJ:360:GLY:HA2	13:G2:306:LYS:HD2	1.98	0.45
4:CK:31:GLN:HE22	4:CK:37:PRO:HD3	1.82	0.45
4:CK:87:PHE:HD2	4:CK:92:LEU:HD21	1.80	0.45
4:CK:306:ASP:OD2	4:CK:309:HIS:N	2.49	0.45
4:CM:272:TYR:CE1	4:CM:374:ALA:HB1	2.51	0.45
7:Cc:419:ARG:HH21	7:Cc:420:LEU:HG	1.81	0.45
7:Cd:152:ASP:O	7:Cd:155:PHE:HB3	2.17	0.45
6:D:43:TYR:HE1	6:D:57:HIS:H	1.64	0.45
8:D1:75:GLU:O	8:D1:78:ARG:HG2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:D3:315:LEU:HB3	8:D3:319:GLN:HE22	1.82	0.45
8:D4:118:GLN:HE22	8:D4:215:TRP:HZ2	1.63	0.45
8:D8:236:THR:OG1	8:D8:237:GLN:N	2.50	0.45
4:DA:433:GLU:O	4:DA:437:VAL:N	2.45	0.45
3:DD:385:PHE:HA	3:DD:388:MET:HE2	1.97	0.45
3:DF:74:ASP:HA	3:DF:77:ARG:NE	2.31	0.45
4:DG:438:ASP:C	3:DH:391:ARG:HH12	2.25	0.45
3:DH:404:ASP:N	3:DH:404:ASP:OD1	2.49	0.45
3:DL:217:LEU:HD11	3:DL:220:PRO:HB3	1.99	0.45
3:DL:276:ARG:HA	13:G3:285:ARG:HH21	1.81	0.45
9:E:771:SER:O	9:E:775:PRO:HB3	2.17	0.45
3:EB:299:MET:HE2	3:EB:303:CYS:C	2.42	0.45
4:EC:21:TRP:HA	4:EC:24:TYR:HB2	1.98	0.45
3:ED:8:GLN:HG2	3:ED:65:LEU:HA	1.99	0.45
3:ED:33:THR:HG22	13:G1:501:HIS:CE1	2.51	0.45
3:ED:144:GLY:N	39:ED:501:GTP:O2B	2.50	0.45
4:EE:285:GLN:NE2	4:EE:286:LEU:O	2.50	0.45
3:EF:77:ARG:HD3	3:EF:90:PHE:HE2	1.82	0.45
3:EF:317:PHE:O	3:EF:354:CYS:N	2.36	0.45
4:EG:201:ALA:HB3	4:EG:267:PHE:HD1	1.80	0.45
3:EH:3:GLU:HB2	3:EH:62:ARG:NH2	2.31	0.45
3:EJ:52:ASN:OD1	3:EJ:62:ARG:NH1	2.49	0.45
4:EK:345:ASP:N	4:EK:345:ASP:OD1	2.49	0.45
3:EL:176:SER:O	3:EL:178:THR:N	2.50	0.45
11:F2:434:LEU:O	11:F2:438:GLN:OE1	2.34	0.45
11:F3:96:ASP:HA	11:F3:99:ASN:ND2	2.21	0.45
11:F3:98:SER:O	11:F3:101:LEU:HB3	2.17	0.45
11:F3:278:SER:OG	11:F7:445:VAL:HG21	2.17	0.45
11:F3:296:TRP:HA	11:F3:299:PHE:CD2	2.51	0.45
11:F5:192:LEU:O	11:F5:195:LEU:HG	2.16	0.45
11:F6:396:LEU:HG	11:F6:416:LEU:HD13	1.97	0.45
11:F7:193:GLU:O	11:F7:197:ASN:ND2	2.50	0.45
11:F7:404:ASN:CG	11:F7:405:VAL:H	2.24	0.45
11:F9:419:GLU:CD	11:Fa:134:MET:HE3	2.42	0.45
4:FC:50:ASN:O	4:FC:64:ARG:NH1	2.50	0.45
4:FC:295:CYS:HB2	4:FC:377:MET:HG2	1.99	0.45
4:FC:331:ALA:O	4:FC:334:THR:OG1	2.29	0.45
4:FC:345:ASP:N	4:FC:345:ASP:OD1	2.50	0.45
4:FC:423:GLU:HA	4:FC:426:ALA:HB3	1.96	0.45
3:FD:218:THR:OG1	3:FD:219:THR:N	2.49	0.45
3:FD:404:ASP:OD1	3:FD:404:ASP:N	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FE:11:GLN:HA	4:FE:14:VAL:HG13	1.97	0.45
4:FE:31:GLN:NE2	4:FE:37:PRO:HD3	2.32	0.45
3:FH:173:PRO:HD3	3:FH:203:ASP:OD1	2.16	0.45
4:FI:271:THR:HA	4:FI:302:MET:HE1	1.98	0.45
4:FI:280:LYS:HD2	4:FI:280:LYS:HA	1.68	0.45
3:FL:217:LEU:HD11	3:FL:220:PRO:HB3	1.99	0.45
11:Fa:131:ILE:HA	11:Fa:134:MET:HE1	1.98	0.45
11:Fa:201:ARG:CZ	11:Fa:206:LEU:HA	2.47	0.45
11:Fb:250:LEU:HA	11:Fb:253:ASP:OD2	2.16	0.45
11:Fb:301:ASN:O	11:Fb:304:ILE:HG22	2.17	0.45
11:Fb:433:ARG:NH2	11:Fc:123:ILE:HB	2.32	0.45
11:Fe:201:ARG:NH1	11:Fe:207:VAL:H	2.15	0.45
11:Ff:123:ILE:HA	11:Ff:126:ASP:OD2	2.17	0.45
11:Ff:139:SER:HB2	11:Ff:268:PHE:HE1	1.82	0.45
11:Fk:221:LEU:HD21	11:Fk:332:MET:HE3	1.98	0.45
11:Fk:245:ASP:HA	11:Fk:248:HIS:CE1	2.52	0.45
11:Fl:184:VAL:O	11:Fl:188:LEU:HG	2.16	0.45
11:Fm:356:LYS:O	11:Fm:359:THR:OG1	2.34	0.45
12:G:121:GLU:OE2	12:G:124:GLU:N	2.50	0.45
12:G:195:LEU:O	12:G:198:GLU:HG2	2.17	0.45
13:G1:426:LEU:H	13:G1:426:LEU:HD23	1.82	0.45
14:G4:506:GLU:HG2	14:G4:507:LEU:HD12	1.98	0.45
14:G5:434:LEU:HB2	14:G5:529:THR:HG21	1.98	0.45
14:G5:481:LEU:HD21	14:G5:484:SER:HB2	1.97	0.45
14:G6:284:LEU:HD11	14:G6:346:VAL:HA	1.98	0.45
4:GA:390:ARG:O	4:GA:394:LYS:HG3	2.17	0.45
4:GE:176:GLN:NE2	4:GE:177:VAL:HG23	2.31	0.45
4:GG:315:CYS:O	4:GG:351:PHE:HA	2.17	0.45
4:GI:139:HIS:CD2	4:GI:170:ALA:HB2	2.51	0.45
3:GJ:70:PRO:HA	3:GJ:73:MET:HE3	1.99	0.45
39:GJ:501:GTP:O3G	39:GJ:501:GTP:O3'	2.20	0.45
4:GK:71:GLU:OE1	4:GK:71:GLU:N	2.50	0.45
4:GK:87:PHE:HB3	4:GK:92:LEU:HD21	1.98	0.45
15:H5:305:ARG:HA	15:H5:308:TYR:HB3	1.99	0.45
3:HB:350:LYS:HE3	4:HC:181:VAL:H	1.81	0.45
3:HD:130:LEU:HB2	3:HD:162:ARG:HH11	1.81	0.45
3:HD:376:GLU:H	3:HD:376:GLU:CD	2.22	0.45
4:HE:262:TYR:CE1	3:HF:393:ALA:HA	2.52	0.45
4:HE:322:ASP:HB3	4:HE:372:GLN:HE21	1.80	0.45
3:HF:217:LEU:HD11	3:HF:220:PRO:HB3	1.99	0.45
4:HG:70:LEU:HB3	4:HG:97:GLU:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HG:208:ALA:HA	4:HG:211:ASP:HB2	1.97	0.45
4:HK:245:ASP:O	4:HK:356:ASN:ND2	2.50	0.45
4:HK:295:CYS:HA	4:HK:300:ASN:HD22	1.82	0.45
3:HL:11:GLN:HE21	39:HL:501:GTP:H3'	1.81	0.45
3:HL:137:HIS:O	3:HL:168:SER:HA	2.17	0.45
4:IA:392:ASP:HA	4:IA:395:PHE:HB3	1.98	0.45
4:IA:415:GLU:OE1	4:IA:415:GLU:N	2.33	0.45
3:IB:322:SER:OG	3:IB:323:MET:SD	2.73	0.45
3:IB:378:PHE:HA	3:IB:381:ILE:HG12	1.98	0.45
3:ID:183:TYR:CZ	3:ID:388:MET:HG3	2.51	0.45
3:IF:374:ILE:HG23	3:IF:377:LEU:HD22	1.99	0.45
4:IG:263:PRO:HB2	4:IG:264:ARG:NH1	2.32	0.45
4:IG:332:ILE:HA	4:IG:335:ILE:HG12	1.99	0.45
3:IH:272:PRO:HA	3:IH:292:GLN:OE1	2.16	0.45
4:II:271:THR:HB	4:II:377:MET:HE3	1.98	0.45
3:IJ:357:PRO:O	3:IJ:359:ARG:NH2	2.49	0.45
4:IM:9:VAL:HA	4:IM:68:VAL:HG23	1.99	0.45
4:IM:344:VAL:HB	4:IM:346:TRP:HE3	1.82	0.45
18:J:44:ILE:HG22	3:JF:362:LYS:HG2	1.99	0.45
4:JA:346:TRP:CZ2	3:JB:391:ARG:HB2	2.51	0.45
4:JC:178:SER:OG	4:JC:180:ALA:O	2.35	0.45
3:JD:33:THR:O	3:JD:58:LYS:NZ	2.50	0.45
3:JD:302:ALA:HB1	3:JD:377:LEU:HD11	1.99	0.45
4:JE:16:ILE:HG13	4:JE:17:GLY:N	2.31	0.45
4:JE:319:TYR:HB2	4:JE:355:ILE:HD13	1.99	0.45
3:JF:305:PRO:HB2	3:JF:310:TYR:HE1	1.81	0.45
3:JH:12:CYS:SG	39:JH:501:GTP:H5'	2.57	0.45
3:JH:26:ASP:OD1	3:JH:27:GLU:N	2.49	0.45
3:JH:376:GLU:OE1	3:JH:376:GLU:N	2.31	0.45
21:K2:250:GLN:HE22	21:K2:252:LEU:HD13	1.81	0.45
21:K3:237:TYR:CE2	21:K3:241:ARG:HB2	2.51	0.45
21:K3:306:GLU:O	21:K3:310:ILE:HG12	2.16	0.45
21:K3:477:ALA:O	21:K3:481:VAL:HG23	2.16	0.45
4:KA:10:GLY:O	4:KA:14:VAL:HG13	2.17	0.45
4:KA:28:HIS:HB2	4:KA:30:ILE:HG12	1.98	0.45
4:KA:35:GLN:HG2	4:KA:59:GLY:O	2.16	0.45
3:KB:198:GLU:HA	3:KB:266:PHE:CE2	2.52	0.45
4:KC:319:TYR:HE2	4:KC:328:VAL:HG13	1.81	0.45
3:KD:36:TYR:CE2	3:KD:44:LEU:HD13	2.52	0.45
3:KD:299:MET:SD	3:KD:305:PRO:HD2	2.56	0.45
4:KE:287:SER:N	4:KE:290:GLU:OE2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:KE:402:ARG:HH21	31:R1:124:ASN:C	2.25	0.45
3:KF:32:PRO:C	3:KF:83:GLN:HE21	2.21	0.45
4:KG:16:ILE:HG22	4:KG:228:ASN:OD1	2.16	0.45
4:KG:285:GLN:HE22	4:KG:287:SER:HB3	1.82	0.45
4:KG:363:VAL:H	4:KG:368:LEU:HD21	1.82	0.45
3:KH:41:ASP:N	3:KH:41:ASP:OD1	2.48	0.45
3:KH:235:GLY:O	3:KH:238:THR:OG1	2.24	0.45
4:KI:438:ASP:C	3:KJ:391:ARG:HH12	2.24	0.45
3:KJ:226:ASN:HA	3:KJ:229:VAL:HG12	1.99	0.45
3:KJ:299:MET:SD	3:KJ:301:ALA:N	2.89	0.45
4:KK:88:HIS:HB3	4:KK:91:GLN:HG3	1.97	0.45
3:KL:318:ARG:O	3:KL:364:SER:OG	2.25	0.45
22:L2:160:LYS:O	22:L2:163:GLU:HB3	2.16	0.45
22:L3:136:LEU:O	22:L3:139:SER:N	2.50	0.45
22:L3:136:LEU:O	22:L3:137:GLU:C	2.59	0.45
4:LA:272:TYR:CE1	4:LA:374:ALA:HB1	2.52	0.45
3:LB:3:GLU:HG2	3:LB:130:LEU:HD23	1.98	0.45
3:LB:55:THR:OG1	3:MB:280:GLN:O	2.35	0.45
3:LB:164:MET:HG2	3:LB:197:ASP:CG	2.42	0.45
4:LC:273:ALA:O	4:LC:275:VAL:N	2.46	0.45
4:LC:288:VAL:HG21	4:LC:328:VAL:HG12	1.98	0.45
3:LD:271:ALA:HB3	3:LD:365:ALA:H	1.82	0.45
3:LF:246:LEU:HB3	3:LF:353:VAL:O	2.17	0.45
4:LG:6:SER:OG	4:LG:8:HIS:NE2	2.49	0.45
4:LG:110:ILE:O	4:LG:114:ILE:HG12	2.17	0.45
4:LG:172:TYR:N	4:LG:204:VAL:O	2.41	0.45
4:LG:333:ALA:HA	4:LG:336:LYS:HD2	1.99	0.45
3:LH:378:PHE:HA	3:LH:381:ILE:HG22	1.99	0.45
4:LK:230:LEU:O	4:LK:234:ILE:HG12	2.17	0.45
4:LK:411:GLU:OE2	4:LK:413:MET:HE1	2.16	0.45
3:LL:135:LEU:O	3:LL:167:PHE:N	2.41	0.45
4:MC:389:ALA:HA	4:MC:392:ASP:OD2	2.17	0.45
4:MC:392:ASP:O	4:MC:396:ASP:N	2.39	0.45
3:MD:246:LEU:HB2	3:MD:352:ALA:HB1	1.99	0.45
4:ME:139:HIS:CD2	4:ME:170:ALA:HB2	2.52	0.45
4:ME:331:ALA:O	4:ME:334:THR:OG1	2.32	0.45
4:ME:396:ASP:OD1	4:ME:397:LEU:N	2.49	0.45
3:MF:9:ALA:HB3	3:MF:137:HIS:HB3	1.98	0.45
3:MF:139:LEU:N	3:MF:168:SER:OG	2.49	0.45
4:MG:116:ASP:N	4:MG:116:ASP:OD1	2.49	0.45
4:MG:431:ASP:HA	28:O2:46:ARG:HH21	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MH:172:SER:OG	3:MH:205:GLU:OE2	2.23	0.45
3:MH:371:SER:OG	3:MH:372:THR:N	2.50	0.45
4:MI:7:ILE:HB	4:MI:137:ILE:HA	1.98	0.45
4:MI:45:GLY:HA2	4:MI:49:PHE:HE1	1.81	0.45
4:MI:254:GLU:O	4:MI:258:ASN:ND2	2.28	0.45
4:MI:316:CYS:HB3	4:MI:378:LEU:HB2	1.98	0.45
4:MI:318:LEU:O	4:MI:375:VAL:HA	2.16	0.45
4:MK:318:LEU:O	4:MK:318:LEU:HD12	2.16	0.45
4:NA:68:VAL:HG12	4:NA:93:ILE:HB	1.99	0.45
3:NB:214:THR:HG21	3:NB:273:LEU:HB3	1.99	0.45
3:ND:41:ASP:N	3:ND:41:ASP:OD1	2.48	0.45
3:NF:337:ASN:HB2	3:NF:340:TYR:HB2	1.99	0.45
3:NH:31:ASP:OD2	3:NH:35:THR:OG1	2.31	0.45
4:NK:208:ALA:H	4:NK:304:LYS:NZ	2.14	0.45
4:OA:51:THR:HG23	4:OA:52:PHE:HD2	1.82	0.45
4:OA:75:VAL:HG22	4:OA:79:ARG:HH21	1.82	0.45
4:OA:148:GLY:O	4:OA:151:SER:OG	2.31	0.45
3:OB:404:ASP:OD1	3:OB:404:ASP:N	2.50	0.45
3:OD:324:LYS:HD2	4:OE:221:ARG:HA	1.98	0.45
4:OE:104:ALA:O	4:OE:108:TYR:N	2.45	0.45
3:OF:2:ARG:HA	3:OF:129:CYS:O	2.17	0.45
3:OF:6:HIS:HB3	3:OF:21:TRP:HZ2	1.80	0.45
3:OF:46:ARG:NH2	3:OF:240:LEU:O	2.35	0.45
3:OH:106:TYR:HB2	3:OH:401:GLU:OE2	2.17	0.45
3:OH:130:LEU:HB3	3:OH:162:ARG:HH11	1.81	0.45
3:OJ:52:ASN:ND2	3:OJ:62:ARG:HD3	2.31	0.45
27:P:32:ALA:O	27:P:35:ARG:HB3	2.17	0.45
27:P:98:GLN:O	27:P:102:GLN:N	2.49	0.45
29:P1:392:ALA:HB1	29:P1:420:VAL:HG12	1.97	0.45
29:P2:372:VAL:HG12	29:P2:375:MET:HE2	1.97	0.45
29:P2:407:ARG:CZ	29:P2:409:MET:HG2	2.45	0.45
3:PB:143:THR:HG22	3:PB:147:MET:HE3	1.98	0.45
4:PC:28:HIS:HB2	4:PC:30:ILE:CD1	2.47	0.45
3:PD:2:ARG:HH11	4:PE:97:GLU:HG3	1.81	0.45
3:PD:379:LYS:HE2	3:PD:379:LYS:HA	1.99	0.45
4:PE:216:ASN:HD21	4:PE:275:VAL:HG23	1.82	0.45
4:PE:229:ARG:NH1	4:PE:233:GLN:HB2	2.31	0.45
3:PF:2:ARG:HA	3:PF:129:CYS:O	2.17	0.45
3:PF:350:LYS:HE3	4:PG:181:VAL:H	1.81	0.45
3:PF:378:PHE:HA	3:PF:381:ILE:HG22	1.98	0.45
3:PH:330:MET:HE1	4:PI:177:VAL:HG22	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:PI:105:ARG:HH12	4:PI:110:ILE:CG1	2.22	0.45
3:PJ:347:ASN:HB3	4:PK:178:SER:HB3	1.97	0.45
4:PK:321:GLY:HA3	4:PK:372:GLN:O	2.17	0.45
4:PK:365:GLY:HA2	37:YS:39:LYS:HE3	1.98	0.45
3:PL:2:ARG:HA	3:PL:129:CYS:O	2.17	0.45
3:PL:113:VAL:HB	3:PL:154:LYS:HE3	1.99	0.45
4:PM:405:VAL:O	4:PM:409:VAL:HG22	2.17	0.45
3:QB:12:CYS:HA	39:QB:501:GTP:HN22	1.81	0.45
3:QB:36:TYR:CE2	3:QB:44:LEU:HD13	2.50	0.45
3:QB:66:VAL:HA	3:QB:91:VAL:O	2.17	0.45
3:QB:258:VAL:HG13	3:QB:263:LEU:HB2	1.99	0.45
4:QC:146:GLY:N	39:QC:501:GTP:O2B	2.44	0.45
4:QE:119:LEU:HD23	4:QE:122:ILE:HD11	1.98	0.45
4:QE:413:MET:HB3	4:QE:417:GLU:OE2	2.16	0.45
3:QF:380:ARG:O	3:QF:384:GLN:HG2	2.16	0.45
4:QG:139:HIS:HE1	4:QG:168:GLU:HB3	1.82	0.45
4:QG:230:LEU:O	4:QG:234:ILE:HG12	2.17	0.45
4:QG:370:LYS:HD3	4:QG:372:GLN:OE1	2.16	0.45
4:QK:16:ILE:HD11	4:QK:138:PHE:HB3	1.97	0.45
4:QK:331:ALA:O	4:QK:334:THR:OG1	2.26	0.45
3:QL:217:LEU:HD11	3:QL:220:PRO:HB3	1.97	0.45
3:RB:86:ARG:HD2	3:SB:281:TYR:CE1	2.52	0.45
4:RC:32:PRO:HB2	37:YA:131:ARG:HH21	1.82	0.45
3:RF:156:ARG:NH1	3:RF:195:ASN:O	2.45	0.45
4:RG:402:ARG:HB2	4:RG:405:VAL:HG11	1.99	0.45
3:RJ:172:SER:OG	3:RJ:205:GLU:OE2	2.17	0.45
4:RK:292:THR:HA	4:RK:295:CYS:SG	2.57	0.45
3:RL:101:TRP:CZ3	3:RL:187:LEU:HD13	2.52	0.45
3:RL:143:THR:O	3:RL:147:MET:HG3	2.17	0.45
3:RL:258:VAL:O	4:RM:407:TRP:NE1	2.39	0.45
3:RL:315:ALA:HA	3:RL:367:PHE:HA	1.98	0.45
4:RM:208:ALA:N	4:RM:304:LYS:HZ1	2.14	0.45
4:SC:49:PHE:CE1	4:SC:55:GLU:HB3	2.51	0.45
3:SD:282:ARG:HE	3:SD:288:GLU:CD	2.23	0.45
4:SE:122:ILE:O	4:SE:126:ALA:N	2.42	0.45
3:SH:51:TYR:CD1	3:SH:61:PRO:HA	2.52	0.45
4:SI:51:THR:HG23	4:SI:52:PHE:HD2	1.82	0.45
3:SJ:117:LEU:HD11	3:SJ:154:LYS:HD3	1.98	0.45
3:SJ:324:LYS:HD2	4:SK:221:ARG:HA	1.99	0.45
4:SK:70:LEU:HA	4:SK:95:GLY:HA3	1.99	0.45
3:TB:9:ALA:HB1	3:TB:147:MET:SD	2.57	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:TE:15:GLN:HG2	4:TE:16:ILE:N	2.30	0.45
3:TF:357:PRO:HB3	3:TF:362:LYS:HA	1.98	0.45
3:TH:106:TYR:HB2	3:TH:401:GLU:OE2	2.17	0.45
3:TH:172:SER:HB2	3:TH:204:ASN:OD1	2.17	0.45
4:TI:254:GLU:O	4:TI:258:ASN:ND2	2.26	0.45
4:TK:113:GLU:OE1	4:TK:113:GLU:N	2.47	0.45
4:TK:346:TRP:CH2	4:TK:435:VAL:HA	2.51	0.45
4:TK:371:VAL:HG11	4:TK:374:ALA:HB2	1.98	0.45
3:TL:415:MET:O	3:TL:419:VAL:HG23	2.17	0.45
4:TM:315:CYS:N	4:TM:350:GLY:O	2.48	0.45
4:UA:166:LYS:N	4:UA:199:ASP:OD2	2.48	0.45
3:UD:108:GLU:O	3:UD:112:LEU:HD23	2.16	0.45
4:UE:236:SER:O	4:UE:243:ARG:NH2	2.39	0.45
3:UF:31:ASP:OD2	3:UF:35:THR:OG1	2.28	0.45
3:UF:60:VAL:HG23	3:UF:86:ARG:HH11	1.81	0.45
4:UG:70:LEU:HB3	4:UG:97:GLU:O	2.16	0.45
3:UH:404:ASP:OD1	3:UH:404:ASP:N	2.45	0.45
4:UK:11:GLN:O	4:UK:14:VAL:HG22	2.16	0.45
4:UK:52:PHE:CZ	4:UK:239:THR:HB	2.51	0.45
4:VA:208:ALA:H	4:VA:304:LYS:NZ	2.13	0.45
3:VB:155:ILE:HA	3:VB:158:GLU:HB2	1.98	0.45
4:VC:21:TRP:HE1	4:VC:65:ALA:HB3	1.81	0.45
3:VD:197:ASP:OD1	3:VD:198:GLU:N	2.50	0.45
3:VD:258:VAL:O	4:VE:407:TRP:NE1	2.34	0.45
4:VE:165:SER:C	4:VE:166:LYS:HD2	2.42	0.45
3:VJ:211:CYS:O	3:VJ:216:LYS:N	2.45	0.45
33:W:109:PHE:HB3	33:W:113:LYS:HE3	1.98	0.45
33:W:238:GLU:HA	33:W:241:GLN:HB2	1.98	0.45
4:WA:103:TYR:HB2	4:WA:186:ASN:HB2	1.99	0.45
3:WB:239:CYS:SG	3:WB:316:VAL:HG11	2.56	0.45
3:WD:324:LYS:HG3	4:WE:221:ARG:NH1	2.31	0.45
4:WE:196:GLU:HG2	4:WE:197:HIS:ND1	2.32	0.45
4:WE:291:ILE:HD11	4:WE:319:TYR:HE2	1.82	0.45
3:WF:130:LEU:HB2	3:WF:162:ARG:HH11	1.81	0.45
3:WF:173:PRO:HD3	3:WF:203:ASP:OD1	2.17	0.45
4:WG:6:SER:HB3	4:WG:65:ALA:HB2	1.98	0.45
3:WH:406:MET:SD	3:WH:407:GLU:N	2.89	0.45
4:WI:90:GLU:HG2	4:WI:121:ARG:NH2	2.32	0.45
3:WJ:32:PRO:O	3:WJ:83:GLN:NE2	2.42	0.45
3:WJ:224:ASP:O	3:WJ:228:LEU:HG	2.17	0.45
33:X:518:LYS:HA	33:X:521:LYS:HE3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:XA:71:ILE:HG21	34:XA:167:PHE:CD2	2.47	0.45
34:XB:105:ALA:C	34:XB:123:MET:HE2	2.42	0.45
34:XC:109:GLN:HB2	34:XC:122:PRO:HA	1.98	0.45
35:XL:78:ILE:HG21	35:XL:113:ARG:HB3	1.98	0.45
37:YE:82:HIS:NE2	37:YE:86:LEU:HD11	2.31	0.45
37:YE:146:ASP:O	37:YE:149:LYS:HG2	2.16	0.45
37:YG:69:PHE:HA	37:YG:72:ILE:HB	1.98	0.45
37:YI:117:TYR:CD1	37:YI:118:PRO:HA	2.51	0.45
37:YJ:73:CYS:SG	37:YJ:141:ILE:HD11	2.56	0.45
37:YN:18:PHE:CE1	37:YN:22:GLN:HA	2.51	0.45
37:YN:46:ILE:HG23	37:YN:70:MET:HE1	1.98	0.45
37:YN:90:THR:N	37:YN:93:THR:OG1	2.49	0.45
37:YP:41:ARG:HH12	37:YP:45:SER:H	1.65	0.45
37:YR:14:LYS:NZ	37:YR:72:ILE:HD13	2.32	0.45
37:YT:99:LYS:HE2	37:YT:147:PHE:HB3	1.97	0.45
37:YU:32:CYS:HA	37:YU:56:TYR:CE1	2.51	0.45
1:A:193:LYS:O	1:A:196:GLU:HG2	2.17	0.45
2:A1:387:GLN:OE1	7:C2:467:TYR:HB2	2.17	0.45
2:A2:73:TRP:HZ3	2:A2:217:TRP:CD1	2.33	0.45
2:A3:138:LYS:HZ1	17:I3:62:ALA:HA	1.80	0.45
2:A3:315:THR:HG21	2:A4:198:ILE:HG23	1.98	0.45
2:A4:95:LYS:NZ	2:A4:157:SER:HB2	2.32	0.45
2:A4:223:ALA:O	2:A4:227:LYS:HG3	2.17	0.45
3:AB:234:SER:O	3:AB:238:THR:HG23	2.17	0.45
4:AC:176:GLN:NE2	4:AC:207:GLU:OE2	2.49	0.45
4:AE:145:THR:HG23	39:AE:501:GTP:O3B	2.17	0.45
4:AE:402:ARG:NE	35:XI:233:PRO:HG2	2.29	0.45
4:AG:172:TYR:HB2	4:AG:203:MET:HB2	1.99	0.45
4:AG:208:ALA:HA	4:AG:211:ASP:HB2	1.99	0.45
4:AI:252:LEU:HA	4:AI:255:PHE:CD2	2.52	0.45
3:AJ:115:SER:O	3:AJ:119:VAL:HG23	2.17	0.45
3:AJ:167:PHE:CD1	3:AJ:200:TYR:HD2	2.27	0.45
4:AK:192:HIS:CE1	4:AK:193:THR:HG23	2.52	0.45
4:AM:12:ALA:HB2	39:AM:501:GTP:H5"	1.98	0.45
4:AM:103:TYR:HB2	4:AM:186:ASN:HB2	1.98	0.45
5:B1:408:VAL:HG23	5:B1:409:ASP:N	2.32	0.45
5:B2:39:ARG:O	5:B2:43:ARG:HD2	2.16	0.45
5:B6:5:SER:O	5:B6:5:SER:OG	2.33	0.45
5:B6:200:SER:OG	8:D9:213:MET:HA	2.17	0.45
5:B6:355:LYS:HA	5:B6:358:GLN:OE1	2.16	0.45
5:B7:136:GLU:HB3	5:B7:257:GLN:HE22	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B8:85:LEU:HD11	5:B8:172:LEU:HD12	1.98	0.45
5:B8:196:SER:HB2	5:B8:199:ILE:HG23	1.99	0.45
3:BD:3:GLU:OE2	3:BD:129:CYS:N	2.50	0.45
3:BD:183:TYR:CZ	3:BD:388:MET:HG3	2.52	0.45
4:BE:182:VAL:O	4:BE:185:TYR:HB2	2.17	0.45
3:BF:415:MET:O	3:BF:419:VAL:HG23	2.16	0.45
3:BH:216:LYS:HB3	3:BH:276:ARG:CZ	2.47	0.45
3:BJ:130:LEU:HD13	3:BJ:133:PHE:HE1	1.82	0.45
3:BL:20:PHE:CZ	3:BL:24:ILE:HD11	2.52	0.45
4:BM:272:TYR:CE1	4:BM:374:ALA:HB1	2.51	0.45
6:C:293:PHE:O	6:C:295:LEU:HG	2.16	0.45
7:C3:299:THR:O	7:C3:302:LYS:HG2	2.16	0.45
7:C8:415:MET:HA	10:E2:109:TYR:OH	2.17	0.45
7:C9:438:LEU:HD21	10:E3:21:TYR:HE1	1.81	0.45
3:CB:334:GLN:O	3:CB:338:SER:OG	2.20	0.45
4:CC:16:ILE:HG13	4:CC:17:GLY:N	2.31	0.45
4:CC:42:ILE:HG21	4:CC:59:GLY:HA2	1.99	0.45
3:CD:3:GLU:HG2	3:CD:130:LEU:HD23	1.99	0.45
3:CD:152:ILE:HD12	3:CD:155:ILE:HD11	1.98	0.45
4:CE:9:VAL:HA	4:CE:68:VAL:HG23	1.98	0.45
4:CE:68:VAL:HG12	4:CE:93:ILE:HB	1.97	0.45
4:CE:88:HIS:HE1	4:CE:90:GLU:HG2	1.82	0.45
4:CE:89:PRO:HB2	4:CE:90:GLU:OE1	2.16	0.45
4:CG:101:ASN:HB3	4:CG:182:VAL:HG11	1.99	0.45
3:CH:2:ARG:HA	3:CH:129:CYS:O	2.17	0.45
3:CH:309:ARG:NE	3:CH:426:GLN:HE21	2.09	0.45
4:CI:51:THR:HG23	4:CI:52:PHE:CD2	2.51	0.45
4:CI:416:GLY:O	4:CI:420:GLU:HG2	2.17	0.45
3:CJ:36:TYR:OH	3:CJ:43:GLN:NE2	2.31	0.45
3:CJ:234:SER:O	3:CJ:238:THR:HG23	2.16	0.45
4:CK:10:GLY:HA2	4:CK:145:THR:OG1	2.17	0.45
4:CK:51:THR:HG23	4:CK:52:PHE:HD2	1.82	0.45
4:CK:152:LEU:HG	4:CK:156:ARG:NH2	2.28	0.45
3:CL:73:MET:O	3:CL:77:ARG:N	2.37	0.45
3:CL:180:VAL:HG13	3:CL:184:ASN:OD1	2.17	0.45
3:CL:192:LEU:O	3:CL:196:THR:HG22	2.17	0.45
4:CM:389:ALA:HA	4:CM:392:ASP:OD2	2.17	0.45
7:Cc:391:ALA:O	7:Cc:394:LYS:HB3	2.16	0.45
7:Cc:394:LYS:HD3	7:Cd:283:TYR:CE1	2.52	0.45
8:D3:128:THR:HG22	8:D3:131:MET:HE2	1.99	0.45
8:D3:247:PHE:HB3	8:D4:357:LEU:HD21	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:D4:294:ARG:NH2	8:D4:298:ASP:OD2	2.50	0.45
8:D7:182:LEU:O	8:D7:186:ILE:HG12	2.15	0.45
3:DB:13:GLY:HA2	3:DB:16:ILE:HB	1.99	0.45
3:DB:254:ALA:HA	3:DB:257:MET:HB3	1.99	0.45
4:DC:6:SER:HA	4:DC:136:LEU:HB2	1.98	0.45
4:DC:107:HIS:CD2	4:DC:152:LEU:HB2	2.51	0.45
4:DC:137:ILE:HG22	4:DC:139:HIS:ND1	2.31	0.45
4:DC:167:LEU:HB3	4:DC:169:PHE:CE1	2.52	0.45
3:DD:114:ASP:N	3:DD:114:ASP:OD1	2.49	0.45
4:DE:35:GLN:HG2	4:DE:59:GLY:O	2.16	0.45
3:DF:53:GLU:O	3:EF:283:ALA:HB2	2.16	0.45
4:DG:35:GLN:HG2	4:DG:59:GLY:O	2.16	0.45
4:DI:36:MET:HG3	4:DI:41:THR:OG1	2.16	0.45
3:DJ:28:HIS:HD2	3:DJ:43:GLN:HB2	1.82	0.45
3:DL:240:LEU:HD22	3:DL:248:ALA:HB1	1.98	0.45
3:DL:315:ALA:HB2	3:DL:367:PHE:HD1	1.82	0.45
3:DL:389:PHE:CZ	3:DL:405:GLU:HB2	2.52	0.45
9:E:606:LEU:HD23	9:E:622:LEU:HG	1.98	0.45
10:E1:112:HIS:HD1	10:E1:119:TRP:CG	2.34	0.45
3:EF:3:GLU:OE2	3:EF:127:CYS:HB2	2.16	0.45
3:EF:3:GLU:OE2	3:EF:129:CYS:N	2.49	0.45
3:EH:46:ARG:NH2	4:EI:73:THR:HA	2.28	0.45
3:EH:174:LYS:HG2	3:EH:205:GLU:OE2	2.16	0.45
4:EI:5:ILE:HD13	4:EI:64:ARG:HB3	1.98	0.45
4:EI:196:GLU:HG2	4:EI:197:HIS:ND1	2.32	0.45
4:EI:202:PHE:CE1	4:EI:378:LEU:HD11	2.52	0.45
4:EI:263:PRO:HB2	4:EI:264:ARG:NH1	2.32	0.45
4:EI:320:ARG:HG2	4:EI:358:GLN:O	2.17	0.45
3:EJ:322:SER:HB3	3:EJ:325:GLU:OE1	2.17	0.45
4:EK:116:ASP:HA	4:EK:119:LEU:HD12	1.98	0.45
4:EK:230:LEU:O	4:EK:234:ILE:HG12	2.16	0.45
11:F1:197:ASN:OD1	11:F1:468:LYS:HD3	2.17	0.45
11:F2:101:LEU:HD13	11:F2:104:ARG:HH11	1.82	0.45
11:F3:89:ARG:HD2	14:G5:560:ARG:HH22	1.81	0.45
11:F4:310:MET:HA	11:F4:313:ASN:HD22	1.81	0.45
11:F5:193:GLU:OE2	11:F5:197:ASN:ND2	2.44	0.45
11:F6:156:LEU:HB3	11:F6:254:ILE:HG12	1.99	0.45
11:F6:263:ILE:HA	11:F6:266:ASN:ND2	2.31	0.45
11:F7:218:GLU:HA	11:F7:221:LEU:HG	1.98	0.45
11:F7:248:HIS:O	11:F7:251:GLU:HG3	2.16	0.45
11:F8:392:ALA:O	11:F8:395:MET:HG3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FA:224:TYR:O	4:FA:228:ASN:N	2.34	0.45
4:FC:333:ALA:HA	4:FC:336:LYS:HD2	1.98	0.45
3:FD:324:LYS:HE2	4:FE:222:PRO:N	2.32	0.45
4:FE:287:SER:OG	4:FE:290:GLU:OE1	2.31	0.45
3:FF:137:HIS:O	3:FF:168:SER:HA	2.17	0.45
4:FG:175:PRO:HA	4:FG:390:ARG:CZ	2.47	0.45
4:FG:196:GLU:HG2	4:FG:197:HIS:ND1	2.31	0.45
3:FH:295:ASP:HB2	3:FH:298:ASN:HB2	1.98	0.45
3:FH:310:TYR:CD1	3:FH:371:SER:HB2	2.51	0.45
4:FI:206:ASN:HA	4:FI:209:ILE:HD12	1.99	0.45
11:Fa:98:SER:O	11:Fa:101:LEU:HG	2.16	0.45
11:Fb:357:LEU:HD12	11:Fb:458:LYS:HE2	1.98	0.45
13:G2:357:ASP:OD1	13:G2:357:ASP:N	2.46	0.45
14:G6:561:GLU:H	14:G6:561:GLU:CD	2.22	0.45
14:G6:561:GLU:OE1	14:G6:561:GLU:N	2.30	0.45
3:GB:226:ASN:HA	3:GB:229:VAL:HG12	1.99	0.45
3:GB:381:ILE:HA	3:GB:384:GLN:OE1	2.17	0.45
3:GF:258:VAL:HB	4:GG:407:TRP:CZ2	2.48	0.45
4:GG:119:LEU:HD23	4:GG:122:ILE:HD11	1.99	0.45
4:GG:329:ASN:HA	4:GG:332:ILE:HG12	1.99	0.45
4:GG:386:GLU:HA	4:GG:389:ALA:HB3	1.99	0.45
3:GH:77:ARG:O	3:GH:82:GLY:HA3	2.17	0.45
3:GH:280:GLN:H	3:GH:280:GLN:HG3	1.64	0.45
4:GI:311:LYS:NZ	4:GI:343:PHE:O	2.50	0.45
3:GJ:7:LEU:HB2	3:GJ:135:LEU:HG	1.99	0.45
3:GJ:289:LEU:HD21	3:GJ:363:MET:HB3	1.99	0.45
4:GK:12:ALA:HB1	39:GK:501:GTP:N2	2.32	0.45
15:H3:27:LEU:C	15:H3:30:GLN:HE21	2.25	0.45
15:H5:12:PRO:HA	15:H5:43:LEU:HD22	1.98	0.45
15:H5:256:HIS:HB3	15:H5:257:PRO:HD2	1.98	0.45
4:HA:414:GLU:HG2	4:HA:417:GLU:OE1	2.17	0.45
3:HB:118:ASP:OD1	3:HB:121:ARG:NH1	2.50	0.45
4:HC:172:TYR:N	4:HC:204:VAL:O	2.35	0.45
4:HE:70:LEU:HA	4:HE:95:GLY:HA3	1.97	0.45
4:HE:88:HIS:O	4:HE:91:GLN:HG2	2.17	0.45
3:HF:119:VAL:HA	3:HF:122:LYS:NZ	2.31	0.45
4:HG:190:THR:O	4:HG:193:THR:OG1	2.34	0.45
4:HG:287:SER:N	4:HG:290:GLU:OE2	2.46	0.45
4:HI:333:ALA:HA	4:HI:336:LYS:HD2	1.97	0.45
4:HK:27:GLU:HG2	4:HK:28:HIS:N	2.30	0.45
4:HK:217:LEU:HD13	4:HK:277:SER:HA	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HL:103:LYS:HG3	3:HL:108:GLU:HG2	1.97	0.45
4:IC:67:PHE:HB2	4:IC:92:LEU:HD13	1.98	0.45
3:ID:322:SER:N	3:ID:325:GLU:OE2	2.47	0.45
3:IF:324:LYS:HE2	4:IG:222:PRO:HG2	1.98	0.45
3:IF:334:GLN:O	3:IF:338:SER:OG	2.26	0.45
4:IG:116:ASP:OD1	4:IG:116:ASP:N	2.49	0.45
3:IH:289:LEU:HD21	3:IH:363:MET:HG3	1.99	0.45
4:II:167:LEU:HB3	4:II:169:PHE:CE1	2.52	0.45
4:IK:11:GLN:O	4:IK:14:VAL:HG22	2.17	0.45
4:IK:331:ALA:O	4:IK:335:ILE:HG12	2.16	0.45
4:IM:23:LEU:HD21	4:IM:229:ARG:HG3	1.97	0.45
4:IM:210:TYR:OH	4:IM:221:ARG:NH2	2.49	0.45
19:J3:162:ARG:HH12	19:J3:164:THR:HG23	1.82	0.45
3:JB:197:ASP:HA	3:JB:264:HIS:HD1	1.81	0.45
3:JB:406:MET:HE1	3:NB:304:ASP:HB3	1.99	0.45
4:JC:1:MET:N	4:JC:130:THR:OG1	2.42	0.45
4:JC:113:GLU:OE1	4:JC:113:GLU:N	2.50	0.45
4:JC:203:MET:HE1	4:JC:267:PHE:HB3	1.97	0.45
4:JE:252:LEU:HA	4:JE:255:PHE:CD2	2.52	0.45
3:JF:217:LEU:O	3:JF:219:THR:N	2.49	0.45
3:JH:3:GLU:HG2	3:JH:130:LEU:HD23	1.98	0.45
3:JH:385:PHE:HZ	3:JH:408:PHE:HB3	1.80	0.45
4:JI:167:LEU:HD13	4:JI:200:CYS:HB2	1.98	0.45
4:JI:255:PHE:O	4:JI:259:LEU:HB2	2.17	0.45
4:JI:315:CYS:O	4:JI:351:PHE:HA	2.17	0.45
3:JJ:31:ASP:OD1	3:JJ:35:THR:N	2.49	0.45
4:JK:438:ASP:C	3:JL:391:ARG:HH12	2.24	0.45
21:K2:164:ARG:NH1	21:K2:322:GLN:OE1	2.35	0.45
21:K3:328:ILE:O	21:K3:332:VAL:HG23	2.17	0.45
21:K3:374:THR:HA	21:K3:377:ILE:HG22	1.98	0.45
21:K3:429:MET:O	21:K3:433:LEU:N	2.40	0.45
21:K4:133:ALA:O	21:K4:136:THR:OG1	2.26	0.45
21:K4:476:GLN:HA	21:K4:479:ARG:NH1	2.32	0.45
4:KA:70:LEU:HB3	4:KA:97:GLU:O	2.17	0.45
3:KB:239:CYS:SG	3:KB:316:VAL:HG11	2.56	0.45
4:KC:145:THR:OG1	39:KC:501:GTP:O1B	2.33	0.45
3:KD:249:ASP:O	3:KD:252:LYS:HB3	2.17	0.45
3:KD:290:THR:HG21	3:KD:329:GLN:HB3	1.98	0.45
3:KD:309:ARG:O	3:KD:371:SER:OG	2.28	0.45
4:KE:88:HIS:CE1	4:KE:90:GLU:HG2	2.51	0.45
4:KE:145:THR:OG1	39:KE:501:GTP:O1B	2.33	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:KE:169:PHE:HE1	4:KE:202:PHE:HD2	1.65	0.45
3:KF:13:GLY:HA2	3:KF:16:ILE:HB	1.97	0.45
3:KF:87:PRO:HA	3:KF:90:PHE:CD2	2.52	0.45
3:KF:130:LEU:HB2	3:KF:162:ARG:HH11	1.82	0.45
4:KG:172:TYR:CD1	4:KG:173:PRO:HD2	2.52	0.45
4:KI:145:THR:HG1	39:KI:501:GTP:PB	2.40	0.45
3:KJ:282:ARG:NH2	3:KJ:292:GLN:OE1	2.41	0.45
4:KK:155:GLU:O	4:KK:159:VAL:HG13	2.16	0.45
4:KK:178:SER:OG	4:KK:180:ALA:O	2.34	0.45
3:KL:12:CYS:O	3:KL:16:ILE:HG12	2.17	0.45
3:KL:201:CYS:O	3:KL:301:ALA:HB1	2.17	0.45
22:L2:161:ARG:HA	22:L2:164:ASP:HB2	1.99	0.45
22:L3:193:ARG:NH2	22:L3:249:ILE:HA	2.30	0.45
4:LA:34:GLY:HA2	4:LA:86:LEU:HD11	1.98	0.45
3:LB:66:VAL:HG13	3:LB:147:MET:SD	2.57	0.45
3:LB:114:ASP:OD1	3:LB:115:SER:N	2.48	0.45
3:LB:318:ARG:HD3	3:LB:358:PRO:HG3	1.98	0.45
3:LD:113:VAL:HA	3:LD:116:VAL:HG22	1.99	0.45
4:LE:5:ILE:HD13	4:LE:64:ARG:HB3	1.99	0.45
4:LE:12:ALA:HB1	39:LE:501:GTP:C2	2.52	0.45
3:LF:164:MET:HE3	3:LF:196:THR:C	2.41	0.45
4:LG:196:GLU:HG2	4:LG:197:HIS:ND1	2.31	0.45
4:LI:172:TYR:HB2	4:LI:203:MET:HB2	1.98	0.45
4:LI:272:TYR:HE1	4:LI:374:ALA:HB1	1.82	0.45
4:LI:394:LYS:O	4:LI:398:MET:HG2	2.17	0.45
3:LJ:52:ASN:CG	3:LJ:62:ARG:HD3	2.41	0.45
3:LJ:344:TRP:O	4:LK:398:MET:HE1	2.17	0.45
3:LJ:362:LYS:HG3	3:LJ:363:MET:H	1.81	0.45
4:LK:150:ALA:O	4:LK:153:LEU:HG	2.16	0.45
4:LK:386:GLU:HA	4:LK:389:ALA:HB3	1.98	0.45
3:LL:152:ILE:HD11	3:LL:164:MET:HB3	1.98	0.45
3:LL:382:SER:HB3	3:LL:415:MET:HE1	1.98	0.45
4:MC:139:HIS:CE1	4:MC:168:GLU:HB3	2.51	0.45
4:MC:264:ARG:O	4:MC:266:HIS:ND1	2.48	0.45
4:MC:288:VAL:O	4:MC:292:THR:OG1	2.23	0.45
4:MC:345:ASP:N	4:MC:345:ASP:OD1	2.48	0.45
3:MD:21:TRP:CZ2	3:MD:63:ALA:HB2	2.52	0.45
3:MD:223:GLY:O	3:MD:227:HIS:N	2.49	0.45
3:MD:384:GLN:O	3:MD:388:MET:HG2	2.17	0.45
4:ME:104:ALA:O	4:ME:108:TYR:N	2.46	0.45
4:ME:430:LYS:HA	4:ME:433:GLU:HG2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MG:220:GLU:O	4:MG:221:ARG:NE	2.44	0.45
4:MG:282:TYR:HA	27:P:217:ASN:HD21	1.80	0.45
4:MG:431:ASP:CA	28:O2:46:ARG:HH21	2.30	0.45
3:MH:48:ASN:HA	3:MH:51:TYR:O	2.17	0.45
3:MH:216:LYS:HB2	3:MH:276:ARG:NH1	2.32	0.45
3:MH:240:LEU:HD13	3:MH:248:ALA:HB1	1.98	0.45
3:MJ:318:ARG:HD3	3:MJ:358:PRO:HG3	1.99	0.45
4:MK:211:ASP:HA	4:MK:214:ARG:CZ	2.47	0.45
3:ML:213:ARG:HH22	28:O3:10:TYR:HE2	1.63	0.45
3:ML:324:LYS:HE2	4:MM:222:PRO:HG2	1.98	0.45
26:N1:159:ARG:HB3	26:N1:164:GLY:H	1.82	0.45
26:N2:162:ASP:HB3	4:VE:96:LYS:NZ	2.32	0.45
4:NA:208:ALA:HA	4:NA:211:ASP:OD2	2.17	0.45
3:NB:12:CYS:HA	39:NB:501:GTP:HN22	1.82	0.45
3:NB:156:ARG:CZ	3:NB:164:MET:HE3	2.47	0.45
4:NC:223:THR:OG1	4:NC:225:THR:OG1	2.19	0.45
4:NE:3:GLU:N	4:NE:133:GLN:OE1	2.50	0.45
3:NF:235:GLY:O	3:NF:238:THR:OG1	2.28	0.45
3:NF:394:PHE:HA	3:NF:397:TRP:HZ3	1.82	0.45
4:NG:104:ALA:O	4:NG:108:TYR:N	2.43	0.45
4:NG:229:ARG:NH1	4:NG:233:GLN:HB2	2.31	0.45
3:NH:378:PHE:CD1	3:NH:419:VAL:HG22	2.52	0.45
3:NJ:40:SER:HB3	3:NJ:42:LEU:HD23	1.98	0.45
4:NK:36:MET:HG3	4:NK:41:THR:OG1	2.16	0.45
4:NK:319:TYR:HE2	4:NK:328:VAL:HG13	1.80	0.45
28:O1:88:ALA:O	28:O1:92:LEU:HG	2.17	0.45
4:OA:206:ASN:HA	4:OA:209:ILE:HD12	1.99	0.45
3:OB:12:CYS:HB3	39:OB:501:GTP:H5'	1.99	0.45
3:OB:114:ASP:OD1	3:OB:115:SER:N	2.50	0.45
3:OD:118:ASP:HA	3:OD:121:ARG:HG2	1.99	0.45
3:OF:42:LEU:HD11	3:OF:356:ILE:HG21	1.98	0.45
3:OF:114:ASP:OD1	3:OF:114:ASP:N	2.50	0.45
3:OF:324:LYS:HE2	4:OG:222:PRO:HD2	1.98	0.45
4:OG:167:LEU:HD13	4:OG:200:CYS:HB2	1.99	0.45
4:OG:206:ASN:HA	4:OG:209:ILE:HD12	1.99	0.45
3:OH:47:ILE:HG12	3:OH:59:TYR:CD2	2.52	0.45
4:OK:186:ASN:OD1	4:OK:187:SER:N	2.50	0.45
4:OK:315:CYS:O	4:OK:351:PHE:HA	2.17	0.45
3:OL:52:ASN:CG	3:OL:62:ARG:HD3	2.42	0.45
3:OL:317:PHE:HB3	3:OL:321:MET:HE2	1.99	0.45
29:P1:49:ILE:O	29:P1:58:ASN:N	2.43	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:P3:49:ILE:O	29:P3:58:ASN:N	2.42	0.45
29:P3:229:ILE:N	29:P3:243:GLY:O	2.32	0.45
4:PA:66:VAL:HG12	4:PA:68:VAL:HG13	1.98	0.45
3:PB:60:VAL:HG23	3:PB:86:ARG:HH11	1.82	0.45
3:PB:145:SER:HB2	3:PB:188:SER:HB3	1.99	0.45
4:PC:178:SER:OG	4:PC:180:ALA:O	2.35	0.45
4:PC:411:GLU:OE2	4:PC:413:MET:HE1	2.16	0.45
3:PD:222:TYR:HA	3:PD:225:LEU:HD13	1.99	0.45
4:PE:12:ALA:HB1	39:PE:501:GTP:C2	2.52	0.45
4:PE:196:GLU:HG2	4:PE:197:HIS:ND1	2.31	0.45
4:PE:390:ARG:HA	4:PE:393:HIS:CD2	2.52	0.45
4:PG:175:PRO:HA	4:PG:390:ARG:CZ	2.47	0.45
4:PI:185:TYR:OH	4:PI:404:PHE:HB2	2.17	0.45
3:PJ:412:GLU:HA	3:PJ:415:MET:HE2	1.99	0.45
4:PK:386:GLU:HA	4:PK:389:ALA:HB3	1.98	0.45
27:Q:111:ASP:N	27:Q:111:ASP:OD1	2.50	0.45
27:Q:148:PHE:HD1	27:Q:151:ARG:HH22	1.64	0.45
4:QC:408:TYR:HD2	4:QC:418:PHE:HZ	1.64	0.45
3:QD:39:ASP:OD1	3:QD:39:ASP:N	2.48	0.45
3:QD:138:SER:HB3	39:QD:501:GTP:H5”	1.98	0.45
3:QF:324:LYS:HD2	4:QG:221:ARG:HA	1.99	0.45
4:QG:321:GLY:N	4:QG:356:ASN:O	2.35	0.45
3:QH:87:PRO:HA	3:QH:90:PHE:CD2	2.52	0.45
3:QH:99:ASN:HB2	3:QH:142:GLY:HA3	1.98	0.45
3:QH:272:PRO:HA	3:QH:292:GLN:OE1	2.17	0.45
3:QH:325:GLU:O	3:QH:329:GLN:HG2	2.17	0.45
4:QK:143:GLY:O	4:QK:147:SER:OG	2.28	0.45
4:QK:255:PHE:O	4:QK:259:LEU:HB2	2.17	0.45
3:QL:121:ARG:NH1	3:QL:122:LYS:HG3	2.32	0.45
3:QL:258:VAL:HB	4:QM:407:TRP:CZ2	2.51	0.45
27:R:203:GLY:HA2	27:R:206:ARG:HH21	1.81	0.45
3:RD:255:VAL:HG12	4:RE:407:TRP:CD2	2.52	0.45
3:RD:324:LYS:HD2	4:RE:221:ARG:HA	1.98	0.45
3:RF:378:PHE:CE1	3:RF:419:VAL:HA	2.51	0.45
4:RG:278:ALA:O	4:RG:370:LYS:NZ	2.49	0.45
4:RG:351:PHE:C	4:RG:352:LYS:HD2	2.42	0.45
3:RH:101:TRP:CE3	3:RH:187:LEU:HD13	2.52	0.45
4:RI:6:SER:O	4:RI:65:ALA:HA	2.16	0.45
4:RI:161:TYR:O	4:RI:166:LYS:NZ	2.32	0.45
3:RJ:39:ASP:OD1	3:RJ:39:ASP:N	2.48	0.45
4:RK:315:CYS:O	4:RK:351:PHE:HA	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:RM:3:GLU:OE2	4:RM:130:THR:N	2.34	0.45
3:SB:31:ASP:OD2	3:SB:35:THR:OG1	2.34	0.45
4:SC:252:LEU:HA	4:SC:255:PHE:CD2	2.51	0.45
4:SC:280:LYS:O	4:SC:284:GLU:HB2	2.17	0.45
3:SD:234:SER:O	3:SD:238:THR:HG23	2.16	0.45
4:SE:239:THR:OG1	4:SE:243:ARG:NH1	2.48	0.45
4:SE:254:GLU:O	4:SE:258:ASN:ND2	2.26	0.45
3:SF:32:PRO:O	3:SF:83:GLN:NE2	2.43	0.45
4:SG:346:TRP:HE1	4:SG:438:ASP:HA	1.82	0.45
3:SH:257:MET:O	3:SH:259:PRO:HD3	2.17	0.45
3:SH:413:SER:HA	3:SH:416:ASN:HB2	1.99	0.45
4:SI:245:ASP:O	4:SI:356:ASN:ND2	2.49	0.45
3:SJ:246:LEU:HB3	3:SJ:353:VAL:O	2.17	0.45
3:SL:83:GLN:O	3:SL:86:ARG:NH2	2.49	0.45
4:SM:420:GLU:HA	4:SM:423:GLU:OE2	2.17	0.45
3:TB:322:SER:OG	3:TB:323:MET:N	2.50	0.45
3:TB:405:GLU:O	3:TB:409:THR:HG23	2.17	0.45
4:TC:60:LYS:HE2	4:UA:282:TYR:OH	2.16	0.45
4:TC:319:TYR:HA	4:TC:374:ALA:O	2.16	0.45
3:TD:380:ARG:O	3:TD:384:GLN:HG2	2.17	0.45
3:TD:415:MET:O	3:TD:419:VAL:HG23	2.16	0.45
4:TE:1:MET:SD	4:TE:3:GLU:HB3	2.57	0.45
4:TE:163:LYS:HA	4:TE:163:LYS:HD3	1.72	0.45
3:TF:51:TYR:CD2	3:TF:59:TYR:HB3	2.52	0.45
3:TF:206:ALA:O	3:TF:210:ILE:HG12	2.16	0.45
4:TG:66:VAL:HG12	4:TG:68:VAL:HG13	1.98	0.45
4:TG:188:ILE:HG22	4:TG:421:ALA:HB1	1.97	0.45
4:TM:75:VAL:HG22	4:TM:79:ARG:HH21	1.81	0.45
3:TN:52:ASN:ND2	3:TN:62:ARG:HD3	2.32	0.45
3:TN:150:LEU:O	3:TN:153:SER:OG	2.34	0.45
4:UA:288:VAL:HG11	4:UA:327:ASP:HB2	1.99	0.45
4:UA:398:MET:O	4:UA:402:ARG:N	2.50	0.45
3:UB:12:CYS:HB3	39:UB:501:GTP:O4'	2.17	0.45
4:UC:216:ASN:ND2	4:UC:275:VAL:O	2.50	0.45
4:UC:230:LEU:O	4:UC:234:ILE:HG12	2.17	0.45
4:UC:263:PRO:HB2	4:UC:264:ARG:NH1	2.32	0.45
3:UD:64:VAL:HA	3:UD:89:ASN:HB3	1.99	0.45
4:UE:161:TYR:HB3	4:UE:164:LYS:HZ3	1.82	0.45
4:UE:396:ASP:HB3	4:UE:422:ARG:HH12	1.82	0.45
3:UF:21:TRP:CZ2	3:UF:63:ALA:HB2	2.51	0.45
3:UF:312:THR:OG1	3:UF:370:ASN:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UG:39:ASP:HA	33:X:540:ARG:NH2	2.32	0.45
4:UG:156:ARG:HA	4:UG:159:VAL:HG22	1.99	0.45
3:UH:246:LEU:HD22	3:UH:354:CYS:HA	1.99	0.45
3:UJ:189:VAL:HA	3:UJ:192:LEU:HD12	1.98	0.45
3:UJ:268:PRO:HD2	3:UJ:301:ALA:HB2	1.97	0.45
3:VB:420:SER:O	3:VB:424:GLN:HG3	2.17	0.45
4:VG:272:TYR:CZ	4:VG:274:PRO:HG2	2.52	0.45
3:VH:5:VAL:HG23	3:VH:130:LEU:HD21	1.98	0.45
4:VI:397:LEU:O	4:VI:401:LYS:HG2	2.17	0.45
4:VI:426:ALA:O	4:VI:430:LYS:HG2	2.17	0.45
3:VJ:1:MET:HE1	3:VJ:49:VAL:HA	1.97	0.45
3:VJ:3:GLU:OE2	3:VJ:127:CYS:HB2	2.16	0.45
4:VK:30:ILE:HD13	4:VK:36:MET:SD	2.57	0.45
3:VL:299:MET:HE2	3:VL:303:CYS:C	2.42	0.45
3:WB:48:ASN:HA	3:WB:51:TYR:O	2.17	0.45
3:WB:292:GLN:HA	3:WB:295:ASP:OD2	2.17	0.45
4:WC:224:TYR:HA	4:WC:227:LEU:HB2	1.99	0.45
3:WD:12:CYS:SG	3:WD:13:GLY:N	2.89	0.45
3:WD:183:TYR:CD1	3:WD:388:MET:HE3	2.52	0.45
4:WE:1:MET:HE3	4:WE:50:ASN:ND2	2.32	0.45
4:WE:6:SER:HB3	4:WE:65:ALA:HB2	1.99	0.45
4:WE:279:GLU:O	4:WE:283:HIS:HD2	1.99	0.45
4:WE:399:TYR:OH	4:WE:415:GLU:HB2	2.17	0.45
4:WG:132:LEU:O	35:XK:71:HIS:NE2	2.50	0.45
4:WI:30:ILE:HG13	4:WI:53:PHE:HE2	1.82	0.45
3:WL:118:ASP:HA	3:WL:121:ARG:HG2	1.99	0.45
34:XB:90:GLU:HG2	34:XB:155:GLN:HB3	1.98	0.45
34:XC:74:PRO:O	34:XC:136:LEU:N	2.29	0.45
34:XC:174:GLU:HA	34:XC:177:LEU:HD12	1.99	0.45
34:XE:78:MET:HE1	34:XE:165:VAL:HG13	1.99	0.45
34:XF:84:LYS:HE2	35:XL:241:ASN:H	1.82	0.45
35:XH:105:PHE:CD1	35:XH:106:PRO:HA	2.51	0.45
35:XI:140:ALA:HA	35:XI:143:LEU:HG	1.99	0.45
35:XM:93:LEU:HD23	35:XM:129:VAL:HG11	1.99	0.45
37:YH:110:LEU:HD23	37:YH:140:LEU:HD22	1.97	0.45
37:YI:90:THR:N	37:YI:93:THR:OG1	2.49	0.45
37:YO:80:CYS:HA	37:YO:83:PHE:CD2	2.44	0.45
37:YQ:110:LEU:HB3	37:YQ:140:LEU:HD22	1.99	0.45
37:YQ:161:LYS:O	37:YQ:165:HIS:NE2	2.50	0.45
36:Z:262:ASN:O	36:Z:266:LEU:HG	2.16	0.45
36:Z:293:LYS:HA	36:Z:296:LYS:HD2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:45:ASN:HB3	1:A:49:GLU:OE2	2.17	0.45
2:A1:264:PHE:CE2	2:A1:394:ARG:HD2	2.52	0.45
2:A2:32:SER:C	2:A2:36:ARG:HE	2.25	0.45
2:A2:241:LEU:HD13	2:A2:241:LEU:HA	1.83	0.45
2:A3:290:ALA:O	2:A3:293:GLU:HG3	2.16	0.45
2:A4:15:GLU:HA	2:A4:18:ILE:HG22	1.97	0.45
3:AB:31:ASP:OD1	3:AB:35:THR:N	2.49	0.45
3:AB:299:MET:HE2	3:AB:303:CYS:C	2.42	0.45
4:AC:282:TYR:CD1	4:AC:370:LYS:HE3	2.52	0.45
4:AE:109:THR:O	4:AE:112:LYS:NZ	2.50	0.45
4:AE:163:LYS:HD3	4:AE:163:LYS:HA	1.79	0.45
4:AE:320:ARG:CZ	4:AE:360:PRO:HA	2.47	0.45
4:AE:363:VAL:H	4:AE:368:LEU:HD21	1.82	0.45
4:AG:213:CYS:O	4:AG:218:ASP:N	2.50	0.45
4:AI:1:MET:SD	4:AI:2:ARG:N	2.90	0.45
4:AI:327:ASP:OD1	4:AI:328:VAL:N	2.50	0.45
3:AJ:151:LEU:HD22	3:AJ:154:LYS:HZ1	1.81	0.45
3:AJ:376:GLU:H	3:AJ:376:GLU:CD	2.23	0.45
4:AK:102:ASN:ND2	4:AK:105:ARG:HG3	2.32	0.45
4:AK:397:LEU:O	4:AK:401:LYS:HG2	2.17	0.45
4:AK:405:VAL:O	4:AK:409:VAL:HG22	2.16	0.45
4:AM:188:ILE:HG22	4:AM:421:ALA:HB1	1.97	0.45
4:AM:264:ARG:HD2	34:XG:115:LYS:HD3	1.99	0.45
1:B:334:LEU:HA	1:B:337:LYS:HD2	1.99	0.45
5:B1:100:GLU:O	5:B1:104:GLN:HG2	2.17	0.45
5:B4:391:MET:O	5:B4:394:ARG:HG2	2.17	0.45
5:B6:18:ARG:HB3	5:B6:22:TYR:CZ	2.52	0.45
5:B6:235:ALA:O	5:B6:239:LEU:HD23	2.16	0.45
3:BB:55:THR:HA	15:H1:28:ARG:NH1	2.32	0.45
4:BC:176:GLN:NE2	4:BC:207:GLU:OE2	2.50	0.45
4:BC:311:LYS:NZ	4:BC:343:PHE:O	2.47	0.45
3:BD:46:ARG:HH22	4:BE:73:THR:HA	1.82	0.45
4:BE:192:HIS:CE1	4:BE:193:THR:HG23	2.52	0.45
3:BF:216:LYS:HB3	3:BF:276:ARG:CZ	2.47	0.45
3:BH:266:PHE:HB3	3:BH:368:ILE:HD11	1.99	0.45
3:BJ:111:GLU:OE1	3:BJ:111:GLU:N	2.48	0.45
3:BJ:150:LEU:O	3:BJ:153:SER:OG	2.22	0.45
3:BJ:234:SER:O	3:BJ:238:THR:HG23	2.16	0.45
3:BJ:257:MET:O	3:BJ:259:PRO:HD3	2.16	0.45
4:BK:322:ASP:OD2	4:BK:373:ARG:NH2	2.50	0.45
4:BK:438:ASP:C	3:BL:391:ARG:HH12	2.25	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BL:375:GLN:HA	3:BL:378:PHE:CE1	2.52	0.45
4:BM:47:ASP:HB3	4:BM:49:PHE:CE2	2.52	0.45
6:C:36:ASN:HB3	4:JC:282:TYR:HE1	1.82	0.45
7:C2:369:LEU:HD12	7:C2:373:PHE:HZ	1.81	0.45
7:C4:202:ARG:HA	7:C4:472:LYS:HE2	1.98	0.45
7:C5:403:ARG:NH2	7:C5:404:THR:HA	2.32	0.45
7:C6:139:GLN:O	7:C6:143:THR:HG23	2.17	0.45
7:C8:438:LEU:O	7:C8:442:GLU:HG3	2.16	0.45
4:CC:191:THR:HA	4:CC:194:THR:HG22	1.99	0.45
4:CC:316:CYS:O	4:CC:378:LEU:N	2.43	0.45
3:CD:325:GLU:O	3:CD:329:GLN:HG2	2.17	0.45
3:CD:326:VAL:O	3:CD:330:MET:HG2	2.17	0.45
3:CD:348:ASN:OD1	3:CD:348:ASN:N	2.49	0.45
4:CE:255:PHE:O	4:CE:259:LEU:HB2	2.17	0.45
4:CG:10:GLY:O	4:CG:13:GLY:N	2.49	0.45
4:CI:50:ASN:O	4:CI:64:ARG:NH1	2.50	0.45
4:CI:107:HIS:CD2	4:CI:152:LEU:HB2	2.51	0.45
3:CJ:84:ILE:C	3:CJ:86:ARG:HH22	2.25	0.45
3:CJ:175:VAL:HG22	3:CJ:177:ASP:H	1.82	0.45
3:CJ:392:LYS:HD2	3:CJ:392:LYS:O	2.17	0.45
4:CK:186:ASN:OD1	4:CK:187:SER:N	2.50	0.45
4:CK:287:SER:N	4:CK:290:GLU:OE2	2.49	0.45
4:CK:397:LEU:O	4:CK:401:LYS:HG2	2.17	0.45
3:CL:12:CYS:SG	39:CL:501:GTP:H5'	2.56	0.45
3:CL:77:ARG:O	3:CL:82:GLY:HA3	2.17	0.45
4:CM:121:ARG:O	4:CM:124:LYS:HG2	2.17	0.45
7:Ca:228:CYS:O	7:Ca:232:ARG:HG2	2.17	0.45
7:Ca:375:ILE:O	7:Ca:379:ILE:HG13	2.17	0.45
7:Cb:153:LEU:HB3	7:Cb:265:LEU:HD11	1.99	0.45
7:Cb:164:LEU:O	7:Cb:168:ILE:HG12	2.16	0.45
7:Cc:405:ARG:HH22	10:E3:5:ARG:HH12	1.64	0.45
6:D:303:PHE:CD1	6:D:385:GLU:HG3	2.51	0.45
8:D2:96:GLN:O	8:D2:100:THR:HG23	2.17	0.45
8:D3:320:TYR:HA	8:D3:323:ARG:NH2	2.31	0.45
8:D4:239:GLN:H	8:D5:355:THR:CG2	2.29	0.45
8:D7:267:ARG:HA	8:D7:270:ARG:NE	2.28	0.45
8:D8:119:ARG:O	8:D8:123:GLU:OE1	2.34	0.45
8:D8:178:LYS:O	8:D8:181:GLU:HG2	2.17	0.45
8:D9:346:LYS:O	8:D9:349:PRO:HD2	2.17	0.45
3:DB:60:VAL:HG23	3:DB:86:ARG:NH1	2.30	0.45
3:DB:69:GLU:OE1	3:DB:72:THR:HG23	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DB:171:PRO:HG3	3:DB:181:GLU:OE2	2.17	0.45
3:DB:326:VAL:O	3:DB:330:MET:HG2	2.17	0.45
4:DC:172:TYR:CD1	4:DC:173:PRO:HD2	2.52	0.45
3:DD:189:VAL:HA	3:DD:192:LEU:HB2	1.99	0.45
4:DE:263:PRO:HB2	4:DE:264:ARG:NH1	2.32	0.45
3:DF:372:THR:HB	3:DF:375:GLN:NE2	2.30	0.45
3:DH:139:LEU:N	3:DH:168:SER:OG	2.49	0.45
3:DJ:207:LEU:HB3	3:DJ:225:LEU:HD22	1.99	0.45
3:DL:150:LEU:C	3:DL:154:LYS:HZ3	2.25	0.45
3:DL:391:ARG:C	3:DL:392:LYS:HG3	2.42	0.45
9:E:586:LEU:HA	9:E:589:ALA:HB3	1.97	0.45
10:E2:43:ILE:HG23	10:E2:44:LYS:N	2.32	0.45
10:E2:44:LYS:HB2	10:E2:44:LYS:HE2	1.74	0.45
10:E3:172:LEU:HB3	10:E3:174:GLN:OE1	2.16	0.45
4:EC:208:ALA:N	4:EC:304:LYS:HZ1	2.09	0.45
3:ED:272:PRO:HA	3:ED:292:GLN:OE1	2.17	0.45
4:EE:104:ALA:HA	4:EE:107:HIS:HB3	1.99	0.45
4:EE:333:ALA:HA	4:EE:336:LYS:HD2	1.98	0.45
4:EI:311:LYS:N	4:EI:382:THR:OG1	2.49	0.45
9:F:304:ARG:HH12	3:HJ:58:LYS:HB2	1.82	0.45
11:F1:197:ASN:HA	11:F1:200:LYS:HE2	1.99	0.45
11:F3:365:LEU:HA	11:F3:368:ILE:HG12	1.99	0.45
11:F3:441:LEU:O	11:F3:445:VAL:HG23	2.17	0.45
11:F6:401:ARG:O	11:F6:402:ARG:HD2	2.17	0.45
11:F7:110:ARG:NH2	11:F8:363:LYS:HB2	2.31	0.45
11:F7:127:LYS:O	11:F7:131:ILE:HG23	2.17	0.45
11:F7:474:LYS:HG3	11:F7:475:SER:H	1.81	0.45
3:FB:292:GLN:O	3:FB:298:ASN:ND2	2.36	0.45
4:FC:269:LEU:N	4:FC:379:SER:O	2.40	0.45
4:FC:362:VAL:HA	4:FC:368:LEU:HD11	1.99	0.45
3:FD:259:PRO:HA	4:FE:404:PHE:CD1	2.52	0.45
4:FE:165:SER:C	4:FE:166:LYS:HD2	2.41	0.45
3:FF:24:ILE:HA	3:FF:27:GLU:HG2	1.98	0.45
3:FF:148:GLY:O	3:FF:152:ILE:HG12	2.17	0.45
3:FF:233:MET:HE2	3:FF:233:MET:HA	1.99	0.45
3:FH:6:HIS:CE1	3:FH:8:GLN:HB2	2.51	0.45
3:FH:40:SER:HB2	3:FH:43:GLN:CD	2.42	0.45
4:FI:30:ILE:HG13	4:FI:53:PHE:HE2	1.82	0.45
4:FI:420:GLU:HA	4:FI:423:GLU:OE2	2.17	0.45
3:FJ:2:ARG:HA	3:FJ:129:CYS:O	2.17	0.45
3:FJ:17:GLY:HA2	3:FJ:20:PHE:HB3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FJ:249:ASP:OD2	3:FJ:251:ARG:HB2	2.17	0.45
3:FJ:375:GLN:HA	3:FJ:378:PHE:CE1	2.52	0.45
4:FK:139:HIS:O	4:FK:170:ALA:HA	2.17	0.45
3:FL:223:GLY:HA2	3:FL:226:ASN:OD1	2.16	0.45
3:FL:385:PHE:CE2	3:FL:412:GLU:HB3	2.52	0.45
11:Fb:390:LYS:HB3	11:Fc:277:ILE:CG1	2.47	0.45
11:Fc:184:VAL:HG21	11:Fc:229:MET:HE1	1.97	0.45
11:Fg:300:SER:O	11:Fg:304:ILE:HG12	2.17	0.45
11:Fg:396:LEU:HD11	11:Fg:416:LEU:O	2.16	0.45
11:Fg:466:LYS:O	11:Fg:470:MET:HG3	2.17	0.45
11:Fj:465:ASP:OD1	11:Fj:466:LYS:N	2.50	0.45
11:Fk:290:VAL:HG12	11:Fk:291:SER:H	1.82	0.45
11:Fl:253:ASP:O	11:Fl:257:LYS:N	2.35	0.45
11:Fl:331:GLN:O	11:Fl:335:GLN:HG3	2.17	0.45
11:Fl:378:LEU:O	11:Fl:382:ILE:N	2.43	0.45
13:G1:35:ASN:O	13:G1:37:TYR:N	2.50	0.45
13:G1:172:ILE:H	13:G1:183:ILE:HB	1.82	0.45
13:G1:451:ILE:HD11	13:G1:467:LEU:HB3	1.98	0.45
13:G2:299:LYS:HD2	13:G2:324:TYR:HA	1.98	0.45
14:G4:76:LYS:HD3	14:G4:76:LYS:O	2.17	0.45
14:G4:364:TYR:HB3	14:G4:370:VAL:CG1	2.46	0.45
14:G5:35:LEU:HD23	14:G5:36:VAL:O	2.16	0.45
14:G5:652:VAL:HG23	14:G5:687:GLN:HB3	1.99	0.45
14:G6:581:THR:O	14:G6:585:ILE:HG12	2.17	0.45
14:G6:734:ARG:NH2	14:G6:735:TYR:CD2	2.85	0.45
4:GA:325:PRO:HD2	4:GA:326:LYS:NZ	2.32	0.45
3:GB:173:PRO:HD2	3:GB:205:GLU:CD	2.41	0.45
4:GE:196:GLU:OE1	4:GE:196:GLU:N	2.37	0.45
4:GE:364:PRO:HB3	23:M:97:ARG:NH1	2.31	0.45
3:GF:278:SER:O	3:GF:282:ARG:N	2.43	0.45
3:GH:362:LYS:HD2	3:GH:363:MET:HG3	1.98	0.45
4:GI:331:ALA:O	4:GI:334:THR:OG1	2.27	0.45
4:GI:388:TRP:HA	4:GI:391:LEU:HD12	1.97	0.45
3:GJ:84:ILE:O	3:GJ:86:ARG:NH1	2.50	0.45
3:GJ:282:ARG:HE	3:GJ:288:GLU:CD	2.25	0.45
4:GK:34:GLY:HA2	4:GK:86:LEU:HD11	1.99	0.45
4:GK:214:ARG:NH1	4:GK:215:ARG:HG3	2.32	0.45
4:GK:370:LYS:HG3	4:GK:370:LYS:O	2.16	0.45
3:GL:12:CYS:HA	39:GL:501:GTP:C2	2.52	0.45
15:H1:20:TYR:HB2	15:H1:24:TYR:OH	2.17	0.45
15:H3:282:ILE:HG23	15:H3:283:PRO:HD2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H4:314:ARG:HD2	15:H4:315:ARG:N	2.32	0.45
4:HA:88:HIS:HE1	4:HA:90:GLU:HG2	1.82	0.45
4:HA:161:TYR:HB3	4:HA:164:LYS:NZ	2.32	0.45
3:HB:150:LEU:O	3:HB:153:SER:OG	2.34	0.45
4:HE:254:GLU:OE1	4:HE:254:GLU:N	2.47	0.45
4:HG:207:GLU:HB2	4:HG:304:LYS:NZ	2.31	0.45
4:HG:252:LEU:HD12	4:HG:253:THR:N	2.31	0.45
3:HH:330:MET:HA	3:HH:333:VAL:HG12	1.98	0.45
4:HI:311:LYS:N	4:HI:382:THR:OG1	2.46	0.45
3:HL:36:TYR:OH	3:HL:39:ASP:OD1	2.23	0.45
4:IA:143:GLY:HA3	4:IA:147:SER:H	1.82	0.45
4:IA:210:TYR:OH	4:IA:221:ARG:NH2	2.42	0.45
4:IA:363:VAL:HG12	4:IA:368:LEU:HD22	1.98	0.45
4:IC:119:LEU:HB3	4:IC:123:ARG:NH2	2.31	0.45
4:IC:172:TYR:CD1	4:IC:173:PRO:HD2	2.52	0.45
4:IC:311:LYS:N	4:IC:382:THR:HG22	2.32	0.45
3:ID:317:PHE:O	3:ID:354:CYS:N	2.41	0.45
4:IE:345:ASP:N	4:IE:345:ASP:OD1	2.49	0.45
3:IF:322:SER:HG	3:IF:323:MET:H	1.64	0.45
3:IJ:141:GLY:HA3	39:IJ:501:GTP:H5"	1.99	0.45
3:IL:51:TYR:CD2	3:IL:59:TYR:HB3	2.52	0.45
3:IL:91:VAL:HG11	3:IL:116:VAL:HG12	1.99	0.45
3:IL:251:ARG:HH12	4:IM:105:ARG:NE	2.15	0.45
4:IM:145:THR:HG23	39:IM:501:GTP:O3B	2.17	0.45
4:IM:225:THR:O	4:IM:229:ARG:HD3	2.17	0.45
4:JA:386:GLU:O	4:JA:390:ARG:N	2.47	0.45
3:JB:246:LEU:HD22	3:JB:354:CYS:HA	1.98	0.45
3:JD:7:LEU:HD13	3:JD:64:VAL:HB	1.98	0.45
4:JE:42:ILE:HG21	4:JE:59:GLY:HA2	1.99	0.45
4:JE:187:SER:O	4:JE:190:THR:OG1	2.30	0.45
3:JJ:299:MET:SD	3:JJ:300:MET:N	2.90	0.45
4:JK:105:ARG:HG2	4:JK:109:THR:HG21	1.99	0.45
3:JL:28:HIS:ND1	3:JL:43:GLN:HB2	2.32	0.45
21:K4:128:ALA:HA	21:K4:131:ARG:HH21	1.81	0.45
21:K4:315:ALA:O	21:K4:319:VAL:HG23	2.17	0.45
3:KD:81:PHE:O	3:KD:84:ILE:HG22	2.16	0.45
4:KE:262:TYR:OH	3:KF:391:ARG:O	2.35	0.45
4:KE:345:ASP:N	4:KE:345:ASP:OD1	2.50	0.45
4:KE:387:ALA:O	4:KE:391:LEU:HG	2.17	0.45
3:KF:350:LYS:HE3	4:KG:180:ALA:HA	1.98	0.45
3:KH:262:ARG:HD2	3:KH:421:GLU:HG3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KJ:3:GLU:HG2	3:KJ:130:LEU:HD23	1.98	0.45
3:KJ:77:ARG:O	3:KJ:77:ARG:NH1	2.40	0.45
4:KK:264:ARG:O	4:KK:266:HIS:ND1	2.49	0.45
3:KL:77:ARG:HD3	3:KL:90:PHE:HE2	1.81	0.45
3:KL:197:ASP:OD1	3:KL:198:GLU:N	2.50	0.45
22:L2:95:PRO:HD2	22:L2:97:MET:HE1	1.98	0.45
4:LC:116:ASP:OD1	4:LC:117:LEU:N	2.49	0.45
4:LC:171:ILE:HD12	4:LC:204:VAL:HG13	1.98	0.45
4:LC:256:GLN:O	4:LC:260:VAL:HG12	2.17	0.45
3:LD:19:LYS:NZ	3:LD:227:HIS:HB2	2.32	0.45
3:LD:114:ASP:N	3:LD:114:ASP:OD1	2.50	0.45
4:LE:72:PRO:HA	4:LE:75:VAL:HG12	1.99	0.45
3:LF:40:SER:HB2	3:LF:43:GLN:HG2	1.98	0.45
4:LI:176:GLN:NE2	4:LI:177:VAL:HG23	2.32	0.45
4:LI:210:TYR:OH	4:LI:221:ARG:NH2	2.50	0.45
4:LI:239:THR:OG1	4:LI:243:ARG:NH1	2.49	0.45
3:LJ:347:ASN:OD1	4:LK:394:LYS:NZ	2.45	0.45
3:LJ:423:GLN:HG2	3:LJ:427:ASP:HB2	1.97	0.45
4:LK:161:TYR:HB3	4:LK:164:LYS:HZ2	1.80	0.45
4:LK:319:TYR:HA	4:LK:374:ALA:O	2.17	0.45
3:LL:206:ALA:O	3:LL:210:ILE:HG12	2.16	0.45
3:LL:319:GLY:N	3:LL:321:MET:HE1	2.32	0.45
3:MD:143:THR:O	3:MD:147:MET:HG2	2.16	0.45
4:ME:119:LEU:HA	4:ME:122:ILE:HD12	1.98	0.45
3:MF:121:ARG:HA	3:MF:124:ALA:HB3	1.98	0.45
3:MF:271:ALA:HB3	3:MF:365:ALA:H	1.82	0.45
3:MJ:12:CYS:HA	39:MJ:501:GTP:HN22	1.81	0.45
3:MJ:108:GLU:N	3:MJ:108:GLU:OE1	2.50	0.45
4:MK:165:SER:C	4:MK:166:LYS:HD2	2.42	0.45
4:MK:315:CYS:O	4:MK:351:PHE:HA	2.17	0.45
4:MK:321:GLY:HA3	4:MK:372:GLN:O	2.17	0.45
4:MM:185:TYR:O	4:MM:189:LEU:HG	2.16	0.45
4:MM:320:ARG:CZ	4:MM:360:PRO:HA	2.47	0.45
26:N4:139:HIS:O	3:WL:320:ARG:NE	2.49	0.45
4:NA:47:ASP:HB3	4:NA:49:PHE:CE2	2.52	0.45
4:NA:208:ALA:N	4:NA:304:LYS:HZ1	2.14	0.45
4:NC:139:HIS:CD2	4:NC:170:ALA:HB2	2.52	0.45
4:NC:316:CYS:N	4:NC:378:LEU:O	2.46	0.45
3:ND:174:LYS:HG3	3:ND:175:VAL:HG12	1.98	0.45
4:NE:285:GLN:HE22	4:NE:287:SER:HB3	1.82	0.45
4:NE:287:SER:N	4:NE:290:GLU:OE2	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NF:11:GLN:HG3	39:NF:501:GTP:O5'	2.17	0.45
4:NG:230:LEU:O	4:NG:234:ILE:HG12	2.17	0.45
3:NH:175:VAL:HG22	3:NH:177:ASP:H	1.81	0.45
3:NH:412:GLU:O	3:NH:416:ASN:N	2.41	0.45
3:NJ:246:LEU:HB2	3:NJ:352:ALA:HB1	1.99	0.45
4:NK:230:LEU:O	4:NK:233:GLN:HG3	2.17	0.45
4:NK:306:ASP:OD2	4:NK:309:HIS:N	2.49	0.45
28:O1:25:ALA:O	28:O1:26:ARG:HG3	2.17	0.45
28:O2:42:ILE:HG21	28:O2:53:VAL:HG11	1.98	0.45
3:OB:166:THR:OG1	3:OB:198:GLU:O	2.30	0.45
4:OC:201:ALA:H	4:OC:266:HIS:HD2	1.65	0.45
3:OD:318:ARG:HA	3:OD:354:CYS:HB3	1.99	0.45
4:OE:93:ILE:HG13	4:OE:118:VAL:HG12	1.98	0.45
3:OF:4:ILE:HB	3:OF:50:TYR:CE1	2.51	0.45
3:OH:6:HIS:HB3	3:OH:21:TRP:HZ2	1.82	0.45
4:OI:263:PRO:O	4:OI:264:ARG:HB2	2.17	0.45
3:OJ:81:PHE:O	3:OJ:84:ILE:HG22	2.16	0.45
3:OJ:143:THR:O	3:OJ:147:MET:HG3	2.16	0.45
4:OK:174:ALA:HB3	4:OK:177:VAL:O	2.16	0.45
4:OK:318:LEU:O	4:OK:375:VAL:HA	2.17	0.45
29:P1:97:ASP:HB3	29:P1:100:LYS:HG2	1.98	0.45
29:P1:602:ILE:HB	29:P1:614:TRP:HB2	1.99	0.45
29:P2:314:ILE:HD12	29:P2:328:ALA:HB3	1.98	0.45
29:P3:68:SER:N	29:P3:82:GLY:O	2.44	0.45
4:PA:3:GLU:CD	4:PA:132:LEU:H	2.25	0.45
4:PE:102:ASN:HD22	4:PE:105:ARG:HG3	1.81	0.45
3:PF:117:LEU:HB3	3:PF:121:ARG:NH2	2.31	0.45
4:PG:3:GLU:N	4:PG:133:GLN:OE1	2.49	0.45
4:PG:189:LEU:HA	4:PG:192:HIS:HD1	1.82	0.45
4:PG:196:GLU:HG2	4:PG:197:HIS:ND1	2.32	0.45
4:PI:49:PHE:O	4:PI:53:PHE:N	2.50	0.45
4:PI:139:HIS:CD2	4:PI:170:ALA:HB2	2.52	0.45
4:PI:306:ASP:OD2	4:PI:309:HIS:N	2.50	0.45
4:PM:287:SER:OG	4:PM:290:GLU:OE1	2.27	0.45
30:Q1:1453:PRO:O	30:Q1:1457:SER:N	2.46	0.45
30:Q2:1350:LYS:HA	30:Q2:1350:LYS:HD2	1.84	0.45
30:Q2:1416:ARG:HG3	30:Q2:1451:TRP:CE2	2.52	0.45
3:QD:246:LEU:HD22	3:QD:354:CYS:HA	1.99	0.45
3:QD:250:LEU:HD13	3:QD:253:LEU:HD12	1.98	0.45
4:QE:202:PHE:CD1	4:QE:268:PRO:HD2	2.52	0.45
4:QE:265:ILE:HA	4:QE:267:PHE:CE2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:QE:286:LEU:HD11	4:QE:372:GLN:H	1.81	0.45
3:QF:130:LEU:HB2	3:QF:162:ARG:HH11	1.82	0.45
3:QF:152:ILE:O	3:QF:156:ARG:HG2	2.17	0.45
4:QG:397:LEU:HD12	4:QG:398:MET:N	2.32	0.45
4:QG:428:LEU:HD12	4:QG:432:TYR:CZ	2.51	0.45
3:QH:151:LEU:O	3:QH:155:ILE:HG23	2.17	0.45
3:QH:277:GLY:O	3:QH:280:GLN:NE2	2.49	0.45
4:QI:245:ASP:OD1	4:QI:249:ASN:ND2	2.47	0.45
3:QJ:32:PRO:HA	3:QJ:81:PHE:CE1	2.51	0.45
3:QJ:87:PRO:HA	3:QJ:90:PHE:CD2	2.52	0.45
3:QJ:291:GLN:HA	3:QJ:294:PHE:CZ	2.52	0.45
3:QL:101:TRP:HB2	3:QL:184:ASN:HD22	1.82	0.45
3:RB:246:LEU:HD22	3:RB:354:CYS:HA	1.98	0.45
4:RC:272:TYR:CE1	4:RC:374:ALA:HB1	2.52	0.45
3:RD:182:PRO:HA	3:RD:381:ILE:HD11	1.98	0.45
4:RE:285:GLN:NE2	4:RE:286:LEU:O	2.49	0.45
4:RE:332:ILE:O	4:RE:336:LYS:HG3	2.17	0.45
3:RF:186:THR:HB	3:RF:385:PHE:CE1	2.52	0.45
3:RF:324:LYS:HE2	4:RG:222:PRO:CD	2.47	0.45
4:RI:172:TYR:N	4:RI:204:VAL:O	2.40	0.45
3:RJ:347:ASN:HB3	4:RK:178:SER:HB3	1.99	0.45
4:RK:139:HIS:CD2	4:RK:170:ALA:HB2	2.52	0.45
3:RL:5:VAL:HG23	3:RL:130:LEU:HD21	1.99	0.45
3:RL:271:ALA:HB1	3:RL:272:PRO:HD2	1.98	0.45
4:RM:76:ASP:OD1	4:RM:79:ARG:NH1	2.50	0.45
3:SB:186:THR:HB	3:SB:385:PHE:CZ	2.51	0.45
3:SD:206:ALA:O	3:SD:210:ILE:HG12	2.17	0.45
4:SG:286:LEU:HD11	4:SG:373:ARG:H	1.81	0.45
4:SI:35:GLN:HG2	4:SI:59:GLY:O	2.17	0.45
4:SI:173:PRO:O	4:SI:390:ARG:NH2	2.49	0.45
4:SM:52:PHE:HE2	4:SM:243:ARG:HG3	1.81	0.45
3:TB:235:GLY:O	3:TB:238:THR:OG1	2.25	0.45
3:TB:292:GLN:HA	3:TB:295:ASP:OD2	2.17	0.45
4:TC:252:LEU:HA	4:TC:255:PHE:CD2	2.52	0.45
3:TF:309:ARG:N	3:TF:372:THR:OG1	2.29	0.45
4:TG:258:ASN:ND2	4:TG:352:LYS:HD3	2.31	0.45
4:TI:116:ASP:OD1	4:TI:116:ASP:N	2.49	0.45
3:TJ:309:ARG:O	3:TJ:371:SER:OG	2.25	0.45
4:TK:52:PHE:CZ	4:TK:239:THR:HB	2.51	0.45
4:TK:102:ASN:HB3	4:TK:105:ARG:HB2	1.99	0.45
4:TK:208:ALA:HA	4:TK:211:ASP:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:TM:11:GLN:O	4:TM:14:VAL:HG22	2.17	0.45
3:TN:291:GLN:NE2	3:TN:295:ASP:OD1	2.49	0.45
4:UA:107:HIS:CD2	4:UA:152:LEU:HB2	2.51	0.45
4:UA:256:GLN:O	4:UA:260:VAL:HG12	2.17	0.45
4:UA:405:VAL:O	4:UA:409:VAL:HG22	2.17	0.45
4:UC:295:CYS:HB2	4:UC:377:MET:HG2	1.99	0.45
4:UE:196:GLU:HG2	4:UE:197:HIS:ND1	2.31	0.45
4:UE:262:TYR:HE1	3:UF:393:ALA:HA	1.81	0.45
4:UE:315:CYS:O	4:UE:351:PHE:HA	2.16	0.45
4:UE:346:TRP:CH2	4:UE:435:VAL:HA	2.52	0.45
3:UF:378:PHE:HA	3:UF:381:ILE:HG22	1.99	0.45
4:UG:433:GLU:O	4:UG:437:VAL:N	2.43	0.45
3:UH:134:GLN:HA	3:UH:165:ASN:O	2.17	0.45
3:UH:392:LYS:HD2	3:UH:392:LYS:O	2.17	0.45
4:UI:216:ASN:OD1	4:UI:217:LEU:N	2.50	0.45
3:UL:36:TYR:OH	3:UL:43:GLN:NE2	2.48	0.45
3:UL:266:PHE:CD1	3:UL:370:ASN:HB2	2.52	0.45
3:UL:375:GLN:HA	3:UL:378:PHE:CE1	2.52	0.45
3:VB:47:ILE:HG21	3:VB:59:TYR:CZ	2.52	0.45
3:VB:252:LYS:HE3	4:VC:101:ASN:CG	2.42	0.45
3:VB:269:GLY:N	3:VB:367:PHE:O	2.50	0.45
3:VD:30:ILE:HG13	3:VD:36:TYR:HD1	1.82	0.45
3:VF:11:GLN:HG3	39:VF:501:GTP:PA	2.57	0.45
3:VF:91:VAL:HG11	3:VF:116:VAL:HG12	1.98	0.45
3:VF:175:VAL:HG22	3:VF:177:ASP:H	1.82	0.45
3:VF:226:ASN:HA	3:VF:229:VAL:HG22	1.99	0.45
4:VI:319:TYR:HB2	4:VI:355:ILE:HD13	1.98	0.45
3:VJ:223:GLY:O	3:VJ:227:HIS:N	2.45	0.45
3:VL:2:ARG:HB2	3:VL:131:GLN:NE2	2.32	0.45
3:VL:4:ILE:HB	3:VL:50:TYR:CE1	2.52	0.45
3:VL:143:THR:HG22	3:VL:147:MET:HE3	1.99	0.45
33:W:197:ILE:HG22	33:X:538:VAL:HG22	1.98	0.45
33:W:362:ARG:HA	33:W:362:ARG:NE	2.31	0.45
4:WA:172:TYR:HB2	4:WA:203:MET:HB2	1.99	0.45
3:WB:32:PRO:O	3:WB:83:GLN:NE2	2.40	0.45
3:WB:206:ALA:O	3:WB:210:ILE:HG12	2.17	0.45
3:WB:282:ARG:HE	3:WB:288:GLU:CD	2.25	0.45
3:WF:318:ARG:HD3	3:WF:358:PRO:HG3	1.99	0.45
3:WF:324:LYS:NZ	4:WG:222:PRO:O	2.22	0.45
3:WF:415:MET:O	3:WF:419:VAL:HG23	2.16	0.45
3:WH:175:VAL:HG22	3:WH:177:ASP:H	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WI:1:MET:O	4:WI:131:GLY:HA3	2.17	0.45
4:WI:36:MET:HG3	4:WI:41:THR:OG1	2.16	0.45
4:WI:346:TRP:CH2	3:WJ:391:ARG:HB2	2.52	0.45
34:XB:80:ILE:HD13	34:XB:162:ILE:HD13	1.99	0.45
34:XG:77:VAL:HB	34:XG:166:TYR:HE1	1.82	0.45
35:XK:138:LYS:HA	35:XK:141:LEU:HD12	1.97	0.45
35:XM:88:ASP:OD1	35:XM:90:HIS:N	2.41	0.45
36:Y:163:ASP:HA	36:Y:166:ILE:HD12	1.98	0.45
37:YI:12:GLU:HA	37:YI:15:TYR:HD2	1.82	0.45
37:YI:16:LYS:HA	37:YI:19:GLN:HG2	1.99	0.45
37:YK:6:GLU:HA	37:YK:9:ARG:NE	2.32	0.45
37:YK:96:LEU:HA	37:YK:99:LYS:HG2	1.99	0.45
37:YL:5:LYS:HE2	37:YL:149:LYS:HG2	1.99	0.45
37:YR:5:LYS:HE2	37:YR:8:LEU:HD23	1.99	0.45
37:YR:83:PHE:CG	37:YR:148:MET:HE2	2.52	0.45
36:Z:365:GLN:HB3	36:Z:369:LYS:HE3	1.98	0.45
38:a:46:PHE:O	38:a:50:ARG:N	2.41	0.45
1:A:93:LEU:HD11	9:E:778:PHE:CE1	2.52	0.45
2:A2:294:LYS:HB2	2:A2:294:LYS:HE3	1.83	0.45
2:A2:335:TYR:O	2:A2:339:LYS:HG3	2.17	0.45
2:A3:118:TYR:O	2:A3:121:LYS:HG2	2.17	0.45
2:A4:15:GLU:O	2:A4:18:ILE:HG22	2.16	0.45
3:AB:46:ARG:HH12	4:AC:73:THR:HG23	1.81	0.45
3:AB:410:GLU:HA	3:AB:413:SER:HB3	1.99	0.45
3:AD:20:PHE:CE2	3:AD:24:ILE:HD11	2.51	0.45
4:AE:21:TRP:CZ3	4:AE:53:PHE:HE1	2.34	0.45
3:AF:199:THR:HB	3:AF:265:PHE:HA	1.98	0.45
4:AG:46:ASP:OD1	4:AG:50:ASN:ND2	2.44	0.45
4:AG:320:ARG:HG2	4:AG:358:GLN:O	2.17	0.45
3:AH:317:PHE:HB3	3:AH:321:MET:HE3	1.98	0.45
4:AI:216:ASN:HD21	4:AI:275:VAL:HG23	1.82	0.45
3:AJ:19:LYS:NZ	3:AJ:227:HIS:HB2	2.32	0.45
3:AJ:51:TYR:CD1	3:AJ:61:PRO:HA	2.52	0.45
4:AK:288:VAL:O	4:AK:292:THR:OG1	2.23	0.45
4:AK:318:LEU:H	4:AK:375:VAL:HG23	1.82	0.45
5:B2:23:LEU:O	5:B2:27:ASN:ND2	2.50	0.45
5:B4:405:VAL:HG13	5:B4:407:GLN:NE2	2.31	0.45
5:B6:369:HIS:O	5:B6:373:ILE:HG13	2.17	0.45
5:B6:378:ALA:O	5:B6:381:THR:OG1	2.32	0.45
5:B7:38:ILE:HA	5:B7:41:GLU:CD	2.40	0.45
5:B8:39:ARG:HD2	5:B9:296:ASP:OD2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B8:145:GLU:O	5:B8:149:LYS:HG2	2.17	0.45
5:B8:203:VAL:HG13	5:B8:207:ARG:NH2	2.32	0.45
5:B9:342:VAL:O	5:B9:346:GLU:OE1	2.35	0.45
3:BB:12:CYS:HB3	39:BB:501:GTP:C5'	2.46	0.45
4:BE:391:LEU:HA	4:BE:394:LYS:NZ	2.32	0.45
3:BF:392:LYS:HD2	3:BF:392:LYS:O	2.16	0.45
4:BG:83:TYR:HB3	4:BG:86:LEU:HD12	1.99	0.45
4:BG:251:ASP:HB3	4:BG:254:GLU:OE1	2.16	0.45
3:BH:357:PRO:O	3:BH:359:ARG:NH1	2.38	0.45
3:BJ:324:LYS:HE2	4:BK:222:PRO:CD	2.47	0.45
4:BK:3:GLU:OE2	4:BK:130:THR:N	2.39	0.45
4:BK:166:LYS:O	4:BK:199:ASP:HB2	2.17	0.45
4:BK:256:GLN:O	4:BK:260:VAL:HG12	2.16	0.45
3:BL:234:SER:O	3:BL:238:THR:HG23	2.17	0.45
4:BM:6:SER:HB3	4:BM:65:ALA:HB2	1.99	0.45
4:BM:206:ASN:HA	4:BM:209:ILE:HD12	1.99	0.45
4:BM:271:THR:HB	4:BM:377:MET:HB3	1.98	0.45
4:BM:296:PHE:CE2	4:BM:335:ILE:HG21	2.52	0.45
6:C:166:ASN:O	6:C:170:GLN:N	2.31	0.45
6:C:204:ARG:HH22	6:C:216:GLY:H	1.65	0.45
6:C:370:GLN:H	6:C:370:GLN:CD	2.25	0.45
7:C2:258:LEU:HA	7:C2:261:LYS:HE3	1.97	0.45
7:C8:423:GLU:O	7:C8:427:VAL:HG13	2.17	0.45
4:CC:113:GLU:N	4:CC:113:GLU:OE1	2.48	0.45
3:CD:359:ARG:HH21	14:G4:292:ILE:HG22	1.82	0.45
3:CD:392:LYS:HB3	3:CD:395:LEU:HD13	1.99	0.45
4:CE:165:SER:C	4:CE:166:LYS:HD2	2.42	0.45
4:CG:70:LEU:HB3	4:CG:97:GLU:O	2.17	0.45
4:CG:288:VAL:HG11	4:CG:327:ASP:HB2	1.99	0.45
3:CH:15:GLN:HG3	3:CH:222:TYR:HE2	1.81	0.45
3:CH:289:LEU:O	3:CH:293:MET:N	2.47	0.45
4:CI:105:ARG:O	4:CI:109:THR:OG1	2.19	0.45
4:CI:186:ASN:OD1	4:CI:187:SER:N	2.50	0.45
4:CK:53:PHE:HB3	4:CK:61:HIS:HB3	1.98	0.45
4:CK:172:TYR:HB2	4:CK:203:MET:HB2	1.99	0.45
3:CL:117:LEU:HA	3:CL:120:VAL:HG22	1.97	0.45
4:CM:331:ALA:O	4:CM:335:ILE:HG12	2.17	0.45
7:Cc:410:GLU:H	7:Cc:410:GLU:CD	2.24	0.45
8:D3:255:GLU:O	8:D3:259:LYS:HG2	2.17	0.45
8:D7:394:LYS:HA	8:D7:397:ASP:OD2	2.17	0.45
8:D7:434:ARG:HD2	8:D7:434:ARG:HA	1.83	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:D9:125:SER:O	8:D9:128:THR:OG1	2.30	0.45
4:DA:1:MET:N	4:DA:130:THR:OG1	2.44	0.45
3:DB:375:GLN:HA	3:DB:378:PHE:CE1	2.52	0.45
4:DC:105:ARG:HG2	4:DC:109:THR:HG21	1.99	0.45
3:DD:176:SER:O	3:DD:178:THR:N	2.50	0.45
3:DD:192:LEU:O	3:DD:196:THR:HG22	2.17	0.45
3:DD:199:THR:N	3:DD:264:HIS:O	2.50	0.45
3:DF:20:PHE:CZ	3:DF:24:ILE:HD11	2.52	0.45
3:DF:32:PRO:HA	3:DF:81:PHE:CE1	2.52	0.45
4:DI:423:GLU:HA	4:DI:426:ALA:HB3	1.98	0.45
10:E3:49:TRP:HD1	10:E3:62:VAL:HG12	1.82	0.45
3:EB:8:GLN:N	3:EB:64:VAL:O	2.39	0.45
3:ED:246:LEU:HD22	3:ED:354:CYS:HA	1.99	0.45
3:ED:271:ALA:HB2	3:ED:365:ALA:HB3	1.99	0.45
3:ED:284:LEU:HG	3:ED:363:MET:HB2	1.99	0.45
4:EG:326:LYS:HA	3:EH:208:TYR:CE2	2.52	0.45
3:EH:6:HIS:HE1	3:EH:8:GLN:HB3	1.82	0.45
3:EH:40:SER:HB2	3:EH:43:GLN:HG2	1.98	0.45
4:EI:139:HIS:CD2	4:EI:170:ALA:HB2	2.51	0.45
3:EJ:10:GLY:HA2	3:EJ:143:THR:HG23	1.98	0.45
3:EL:28:HIS:HB2	3:EL:30:ILE:HD12	1.99	0.45
3:EL:197:ASP:OD1	3:EL:198:GLU:N	2.50	0.45
9:F:309:PRO:HA	9:F:312:LYS:NZ	2.32	0.45
9:F:318:ARG:HG3	9:F:319:TYR:CD2	2.52	0.45
11:F1:344:ASN:HA	11:F1:347:ILE:HD12	1.98	0.45
11:F2:291:SER:HB3	11:F2:296:TRP:NE1	2.31	0.45
11:F3:373:ASN:O	11:F3:376:MET:HG3	2.17	0.45
11:F3:443:LEU:O	11:F3:446:MET:HG2	2.17	0.45
11:F6:143:GLY:O	11:F6:146:LEU:HG	2.16	0.45
11:F6:170:MET:HB3	11:F6:240:ILE:HD11	1.99	0.45
11:F6:360:GLN:O	11:F6:361:LEU:C	2.58	0.45
11:F7:292:ILE:O	11:F7:295:THR:OG1	2.12	0.45
4:FA:143:GLY:HA3	4:FA:147:SER:H	1.81	0.45
4:FA:271:THR:O	4:FA:377:MET:N	2.40	0.45
3:FB:239:CYS:SG	3:FB:316:VAL:HG11	2.57	0.45
3:FB:319:GLY:HA2	3:FB:357:PRO:HG3	1.99	0.45
4:FC:152:LEU:O	4:FC:155:GLU:HG3	2.17	0.45
3:FD:148:GLY:O	3:FD:152:ILE:HG12	2.16	0.45
3:FD:263:LEU:HG	3:FD:266:PHE:HE1	1.82	0.45
3:FH:6:HIS:HD2	3:FH:134:GLN:OE1	2.00	0.45
4:FI:5:ILE:HB	4:FI:135:PHE:CD1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FI:263:PRO:HB2	4:FI:264:ARG:NH1	2.31	0.45
3:FL:12:CYS:O	3:FL:16:ILE:HG12	2.17	0.45
3:FL:405:GLU:HA	3:FL:408:PHE:CD2	2.44	0.45
11:Fe:353:VAL:O	11:Fe:357:LEU:HG	2.16	0.45
11:Ff:262:TYR:O	11:Ff:266:ASN:ND2	2.50	0.45
11:Ff:433:ARG:NH2	11:Ff:436:GLU:OE2	2.47	0.45
11:Fg:240:ILE:O	11:Fg:244:ARG:HG3	2.17	0.45
11:Fi:382:ILE:HD12	11:Fi:385:LYS:HE2	1.97	0.45
11:Fk:193:GLU:HA	11:Fk:196:TYR:CD2	2.52	0.45
11:Fl:328:LEU:O	11:Fl:332:MET:HG2	2.16	0.45
13:G1:196:SER:OG	13:G1:197:GLN:NE2	2.48	0.45
13:G1:243:LEU:O	13:G1:265:HIS:ND1	2.50	0.45
13:G1:320:VAL:HG21	13:G1:323:TRP:CH2	2.51	0.45
13:G1:360:GLY:O	13:G1:361:MET:HE2	2.16	0.45
13:G1:424:ALA:N	13:G1:438:PHE:O	2.43	0.45
14:G4:69:PRO:HB2	14:G4:72:VAL:HG22	1.98	0.45
14:G4:630:ASN:HD22	14:G4:668:PRO:HB2	1.82	0.45
14:G5:263:ARG:HG2	14:G5:277:SER:HA	1.99	0.45
14:G6:553:LYS:HE3	14:G6:553:LYS:HB3	1.79	0.45
14:G6:721:TRP:CZ2	14:G6:725:PRO:HD2	2.51	0.45
3:GB:197:ASP:OD1	3:GB:198:GLU:N	2.50	0.45
3:GB:405:GLU:HA	3:GB:408:PHE:HD2	1.82	0.45
3:GD:132:GLY:HA3	3:GD:163:ILE:H	1.82	0.45
3:GD:181:GLU:HA	3:GD:184:ASN:OD1	2.17	0.45
4:GE:315:CYS:N	4:GE:350:GLY:O	2.49	0.45
3:GF:65:LEU:HD21	3:GF:73:MET:HG2	1.98	0.45
4:GG:109:THR:OG1	4:GG:110:ILE:HD12	2.16	0.45
4:GG:252:LEU:HD12	4:GG:253:THR:N	2.31	0.45
4:GG:285:GLN:HE22	4:GG:287:SER:HB3	1.82	0.45
3:GH:9:ALA:HB3	3:GH:135:LEU:HD11	1.99	0.45
4:GI:320:ARG:HD3	4:GI:360:PRO:HG3	1.99	0.45
4:GK:75:VAL:HA	4:GK:78:VAL:HG22	1.98	0.45
4:GK:139:HIS:CE1	4:GK:168:GLU:HB3	2.51	0.45
3:GL:111:GLU:HG2	3:GL:112:LEU:HD12	1.99	0.45
15:H2:302:ASN:O	15:H2:305:ARG:N	2.50	0.45
15:H3:299:THR:HG1	15:H3:302:ASN:HD22	1.59	0.45
3:HD:87:PRO:HA	3:HD:90:PHE:CD2	2.51	0.45
3:HD:137:HIS:O	3:HD:168:SER:HA	2.17	0.45
3:HF:52:ASN:ND2	3:HF:62:ARG:HD3	2.31	0.45
3:HH:7:LEU:HD23	3:HH:64:VAL:HB	1.98	0.45
3:HH:325:GLU:O	3:HH:329:GLN:HG2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HI:196:GLU:OE1	4:HI:196:GLU:N	2.38	0.45
3:HJ:375:GLN:HA	3:HJ:378:PHE:CZ	2.52	0.45
4:HK:172:TYR:CG	4:HK:173:PRO:HD2	2.52	0.45
4:IA:70:LEU:HG	4:IA:97:GLU:O	2.17	0.45
3:IB:15:GLN:CB	3:IB:222:TYR:HE2	2.30	0.45
3:IB:309:ARG:NH1	3:IB:342:VAL:HA	2.32	0.45
3:IB:318:ARG:C	3:IB:321:MET:HE1	2.41	0.45
3:ID:11:GLN:HG3	39:ID:501:GTP:PA	2.57	0.45
4:IG:8:HIS:NE2	4:IG:21:TRP:HZ2	2.15	0.45
4:IG:301:GLN:OE1	4:IG:301:GLN:N	2.50	0.45
4:IG:388:TRP:HB3	4:IG:425:LEU:HD11	1.98	0.45
3:IH:178:THR:HB	3:IH:181:GLU:HB2	1.98	0.45
3:IH:313:VAL:HG23	3:IH:349:VAL:HA	1.99	0.45
3:IH:410:GLU:HA	3:IH:413:SER:HB3	1.99	0.45
4:II:35:GLN:HG2	4:II:59:GLY:O	2.17	0.45
4:II:163:LYS:HA	4:II:163:LYS:HD3	1.71	0.45
4:IK:333:ALA:O	4:IK:337:THR:HG23	2.17	0.45
3:IL:11:GLN:HG3	39:IL:501:GTP:PA	2.56	0.45
3:IL:217:LEU:O	3:IL:219:THR:N	2.49	0.45
3:IL:323:MET:SD	3:IL:353:VAL:HG21	2.57	0.45
3:IL:379:LYS:O	3:IL:382:SER:OG	2.23	0.45
18:J:35:GLU:H	3:JF:276:ARG:HH22	1.64	0.45
19:J3:42:LEU:O	19:J3:46:HIS:N	2.50	0.45
19:J3:177:ASN:C	19:J3:181:LYS:HZ3	2.25	0.45
4:JA:192:HIS:CE1	4:JA:193:THR:HG23	2.52	0.45
4:JC:161:TYR:HB3	4:JC:164:LYS:NZ	2.32	0.45
3:JD:5:VAL:HG22	3:JD:62:ARG:HB3	1.99	0.45
4:JE:279:GLU:HA	4:JE:282:TYR:HD2	1.82	0.45
4:JE:406:HIS:HA	4:JE:409:VAL:HG22	1.99	0.45
3:JF:67:ASP:OD2	3:JF:72:THR:OG1	2.35	0.45
3:JF:299:MET:HE3	3:JF:305:PRO:HD2	1.98	0.45
4:JG:3:GLU:OE2	4:JG:130:THR:N	2.37	0.45
3:JH:234:SER:O	3:JH:238:THR:HG23	2.17	0.45
4:JI:7:ILE:HB	4:JI:137:ILE:HA	1.98	0.45
4:JI:187:SER:O	4:JI:190:THR:OG1	2.29	0.45
3:JJ:150:LEU:C	3:JJ:154:LYS:HZ3	2.25	0.45
3:JL:197:ASP:OD1	3:JL:198:GLU:N	2.50	0.45
21:K3:108:ARG:HB3	21:K3:109:LEU:H	1.54	0.45
21:K3:170:LYS:NZ	21:K3:472:VAL:O	2.50	0.45
21:K3:368:ASN:ND2	21:K3:433:LEU:HD11	2.32	0.45
21:K5:15:ARG:HH21	21:K5:16:VAL:HB	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:KC:57:GLY:HA3	27:Q:92:ARG:HH12	1.82	0.45
4:KC:115:VAL:HA	4:KC:118:VAL:HG22	1.99	0.45
4:KC:285:GLN:NE2	4:KC:286:LEU:O	2.50	0.45
4:KC:336:LYS:HG2	4:KC:351:PHE:CZ	2.52	0.45
4:KC:396:ASP:OD1	4:KC:397:LEU:N	2.49	0.45
3:KD:141:GLY:HA2	39:KD:501:GTP:O3'	2.17	0.45
4:KG:3:GLU:CD	4:KG:132:LEU:H	2.25	0.45
4:KG:119:LEU:HA	4:KG:122:ILE:HG12	1.99	0.45
4:KG:172:TYR:N	4:KG:204:VAL:O	2.40	0.45
4:KG:318:LEU:O	4:KG:375:VAL:HA	2.16	0.45
3:KH:156:ARG:NE	3:KH:164:MET:HE3	2.31	0.45
3:KJ:249:ASP:O	3:KJ:253:LEU:HG	2.17	0.45
4:KK:263:PRO:HB2	4:KK:264:ARG:NH1	2.32	0.45
3:KL:7:LEU:HB2	3:KL:135:LEU:HG	1.98	0.45
22:L3:46:MET:HE2	3:MH:339:SER:OG	2.17	0.45
3:LB:36:TYR:CE2	3:LB:44:LEU:HD13	2.52	0.45
3:LB:152:ILE:HD13	3:LB:192:LEU:HD23	1.99	0.45
3:LD:15:GLN:NE2	39:LD:501:GTP:C2	2.78	0.45
4:LE:141:PHE:HE2	4:LE:203:MET:HG3	1.82	0.45
4:LE:274:PRO:HG3	4:LE:374:ALA:HA	1.99	0.45
4:LG:316:CYS:N	4:LG:378:LEU:O	2.43	0.45
4:LG:326:LYS:NZ	3:LH:211:CYS:HB3	2.32	0.45
4:LI:285:GLN:NE2	4:LI:286:LEU:O	2.50	0.45
3:LJ:423:GLN:NE2	3:LJ:427:ASP:HB2	2.32	0.45
4:LK:166:LYS:N	4:LK:199:ASP:OD2	2.50	0.45
4:LK:331:ALA:O	4:LK:335:ILE:HG12	2.17	0.45
23:M:55:THR:HG21	23:M:69:PHE:O	2.17	0.45
24:M1:55:ARG:HD2	24:M1:55:ARG:HA	1.73	0.45
4:MC:287:SER:HA	4:MC:373:ARG:HD3	1.99	0.45
3:MD:11:GLN:NE2	39:MD:501:GTP:H3'	2.32	0.45
3:MD:70:PRO:HA	3:MD:73:MET:HG3	1.99	0.45
4:ME:88:HIS:HB3	4:ME:91:GLN:CB	2.47	0.45
4:ME:419:SER:HA	4:ME:422:ARG:HH21	1.82	0.45
3:MF:84:ILE:O	3:MF:86:ARG:NH1	2.49	0.45
4:MG:104:ALA:HB1	4:MG:108:TYR:HD2	1.82	0.45
4:MG:174:ALA:HB1	4:MG:207:GLU:OE2	2.16	0.45
4:MI:302:MET:SD	4:MI:302:MET:N	2.81	0.45
3:MJ:252:LYS:HD3	4:MK:101:ASN:ND2	2.32	0.45
3:MJ:378:PHE:CD1	3:MJ:419:VAL:HG22	2.52	0.45
4:MK:246:GLY:HA3	4:MK:355:ILE:O	2.17	0.45
3:ML:350:LYS:HE3	4:MM:181:VAL:H	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MM:135:PHE:HD2	4:MM:166:LYS:HG3	1.82	0.45
4:MM:252:LEU:HA	4:MM:255:PHE:HD2	1.81	0.45
26:N3:66:ILE:HD13	26:N3:75:LEU:HD21	1.97	0.45
26:N3:152:ALA:HB2	29:P2:504:LEU:HD21	1.98	0.45
4:NA:23:LEU:HD12	4:NA:232:GLY:HA3	1.99	0.45
3:NH:372:THR:HG21	3:NH:426:GLN:HG3	1.99	0.45
3:NH:374:ILE:HG22	3:NH:378:PHE:CE2	2.52	0.45
4:NI:22:GLU:O	4:NI:26:LEU:HD23	2.17	0.45
4:NI:386:GLU:HA	4:NI:389:ALA:HB3	1.99	0.45
3:NJ:61:PRO:HD3	3:NJ:84:ILE:HG13	1.99	0.45
3:NL:12:CYS:HA	39:NL:501:GTP:N2	2.31	0.45
3:NL:47:ILE:HG21	3:NL:59:TYR:CZ	2.51	0.45
3:NL:316:VAL:HG22	3:NL:352:ALA:HB3	1.99	0.45
3:OB:12:CYS:SG	39:OB:501:GTP:H5'	2.57	0.45
3:OD:173:PRO:HD3	3:OD:203:ASP:OD1	2.17	0.45
3:OD:324:LYS:HE2	4:OE:222:PRO:HD2	1.97	0.45
3:OH:21:TRP:CZ2	3:OH:63:ALA:HB2	2.52	0.45
4:OK:2:ARG:NH2	4:OK:250:VAL:O	2.50	0.45
4:OK:54:SER:N	4:OK:62:VAL:O	2.50	0.45
27:P:156:LYS:O	27:P:160:ARG:N	2.50	0.45
29:P1:231:LYS:HG2	29:P1:240:ALA:HB3	1.98	0.45
29:P2:314:ILE:HB	29:P2:328:ALA:HB3	1.98	0.45
29:P2:604:SER:OG	29:P2:612:LEU:HB2	2.16	0.45
29:P3:172:GLU:O	29:P3:173:MET:HE2	2.16	0.45
4:PA:90:GLU:HG2	4:PA:121:ARG:NH2	2.32	0.45
3:PB:267:MET:SD	3:PB:267:MET:N	2.90	0.45
3:PD:117:LEU:HA	3:PD:120:VAL:HG22	1.99	0.45
3:PD:269:GLY:N	3:PD:367:PHE:O	2.50	0.45
4:PE:175:PRO:O	4:PE:390:ARG:HD3	2.16	0.45
3:PF:106:TYR:HB2	3:PF:401:GLU:OE2	2.17	0.45
4:PG:116:ASP:N	4:PG:116:ASP:OD1	2.49	0.45
3:PH:52:ASN:ND2	3:PH:62:ARG:HD3	2.32	0.45
3:PJ:9:ALA:HB3	3:PJ:137:HIS:HB3	1.99	0.45
3:PJ:292:GLN:HA	3:PJ:295:ASP:OD2	2.17	0.45
4:PK:196:GLU:HG2	4:PK:197:HIS:ND1	2.32	0.45
4:PM:167:LEU:HD13	4:PM:200:CYS:HB2	1.99	0.45
30:Q1:1417:ARG:HG3	30:Q1:1419:ARG:HG2	1.99	0.45
30:Q1:1469:LEU:N	30:Q1:1504:LYS:HB3	2.32	0.45
3:QB:183:TYR:CZ	3:QB:388:MET:HG3	2.51	0.45
3:QB:261:PRO:HD3	4:QC:406:HIS:CG	2.52	0.45
4:QC:189:LEU:HA	4:QC:192:HIS:ND1	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QF:47:ILE:HG12	3:QF:59:TYR:CD2	2.52	0.45
3:QF:152:ILE:HA	3:QF:155:ILE:HG12	1.99	0.45
4:QK:104:ALA:O	4:QK:108:TYR:N	2.48	0.45
4:QK:176:GLN:NE2	4:QK:207:GLU:OE2	2.49	0.45
3:QL:206:ALA:O	3:QL:210:ILE:HG12	2.17	0.45
3:QL:324:LYS:NZ	4:QM:222:PRO:O	2.41	0.45
27:R:280:GLN:O	27:R:284:ILE:HG12	2.17	0.45
27:R:299:GLN:O	27:R:303:ARG:HD3	2.16	0.45
3:RB:6:HIS:HB3	3:RB:21:TRP:HZ2	1.82	0.45
3:RB:40:SER:HB3	3:RB:43:GLN:CD	2.42	0.45
3:RB:158:GLU:HG3	3:RB:159:TYR:CD2	2.52	0.45
3:RB:378:PHE:CD1	3:RB:419:VAL:HG22	2.52	0.45
4:RC:113:GLU:N	4:RC:113:GLU:OE1	2.50	0.45
4:RC:163:LYS:HA	4:RC:163:LYS:HD3	1.83	0.45
3:RD:41:ASP:N	3:RD:41:ASP:OD1	2.50	0.45
3:RD:372:THR:HB	3:RD:375:GLN:HE22	1.82	0.45
4:RE:167:LEU:HB3	4:RE:169:PHE:CZ	2.52	0.45
3:RF:392:LYS:HD2	3:RF:392:LYS:O	2.17	0.45
4:RG:68:VAL:HG12	4:RG:93:ILE:HB	1.99	0.45
4:RG:138:PHE:CZ	4:RG:235:VAL:HG11	2.50	0.45
3:RH:313:VAL:HG23	3:RH:349:VAL:HA	1.99	0.45
3:RJ:261:PRO:O	3:RJ:264:HIS:NE2	2.50	0.45
4:RK:287:SER:N	4:RK:290:GLU:OE2	2.50	0.45
4:RM:172:TYR:HD1	4:RM:203:MET:HE2	1.81	0.45
4:RM:272:TYR:HE1	4:RM:374:ALA:HB1	1.81	0.45
4:RM:368:LEU:HD23	4:RM:368:LEU:H	1.82	0.45
3:SB:318:ARG:HG3	3:SB:354:CYS:SG	2.57	0.45
4:SC:345:ASP:OD1	4:SC:345:ASP:N	2.50	0.45
4:SE:36:MET:HE3	4:SE:61:HIS:NE2	2.32	0.45
4:SE:405:VAL:O	4:SE:409:VAL:HG22	2.17	0.45
4:SG:268:PRO:HB2	4:SG:378:LEU:HD11	1.99	0.45
4:SI:160:ASP:OD1	4:SI:161:TYR:N	2.50	0.45
3:SJ:21:TRP:CZ2	3:SJ:63:ALA:HB2	2.52	0.45
3:TB:2:ARG:HA	3:TB:129:CYS:O	2.17	0.45
3:TB:173:PRO:HD3	3:TB:203:ASP:OD1	2.17	0.45
4:TC:165:SER:C	4:TC:166:LYS:HD2	2.41	0.45
4:TC:254:GLU:OE1	4:TC:254:GLU:N	2.43	0.45
3:TD:270:PHE:HD2	3:TD:273:LEU:HD21	1.81	0.45
4:TG:280:LYS:HD2	4:TG:280:LYS:HA	1.76	0.45
3:TH:375:GLN:HA	3:TH:378:PHE:CE1	2.52	0.45
4:TI:145:THR:HG23	39:TI:501:GTP:O3B	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:TI:161:TYR:HB3	4:TI:164:LYS:NZ	2.32	0.45
4:TI:223:THR:OG1	4:TI:225:THR:OG1	2.21	0.45
4:TI:287:SER:N	4:TI:290:GLU:OE2	2.50	0.45
3:TJ:217:LEU:O	3:TJ:219:THR:N	2.50	0.45
3:TJ:378:PHE:CD1	3:TJ:419:VAL:HG22	2.52	0.45
3:TL:233:MET:HA	3:TL:236:VAL:HG22	1.98	0.45
4:TM:186:ASN:OD1	4:TM:187:SER:N	2.50	0.45
4:TM:434:GLU:HA	4:TM:437:VAL:HB	1.97	0.45
33:U:476:ASN:O	33:U:479:ARG:NH1	2.50	0.45
4:UA:68:VAL:HG12	4:UA:93:ILE:HB	1.97	0.45
4:UA:88:HIS:CE1	4:VA:280:LYS:HZ3	2.35	0.45
4:UA:333:ALA:HA	4:UA:336:LYS:HD2	1.98	0.45
3:UB:239:CYS:SG	3:UB:316:VAL:HG11	2.56	0.45
4:UE:3:GLU:OE2	4:UE:130:THR:N	2.39	0.45
4:UE:166:LYS:N	4:UE:199:ASP:OD2	2.49	0.45
3:UF:12:CYS:O	3:UF:16:ILE:HG12	2.17	0.45
4:UG:392:ASP:OD1	4:UG:393:HIS:N	2.50	0.45
3:UH:165:ASN:HA	3:UH:198:GLU:HB3	1.99	0.45
3:UH:305:PRO:HA	3:UH:373:ALA:HB2	1.98	0.45
4:UI:54:SER:N	4:UI:62:VAL:O	2.49	0.45
3:UJ:6:HIS:HB3	3:UJ:21:TRP:HZ2	1.82	0.45
3:UJ:40:SER:HB2	3:UJ:43:GLN:CD	2.42	0.45
3:UJ:166:THR:OG1	3:UJ:198:GLU:O	2.28	0.45
3:UJ:324:LYS:HE2	4:UK:222:PRO:HG2	1.99	0.45
4:VA:166:LYS:N	4:VA:199:ASP:OD2	2.50	0.45
3:VB:52:ASN:ND2	3:VB:62:ARG:HD3	2.32	0.45
3:VD:249:ASP:O	3:VD:253:LEU:HG	2.17	0.45
3:VD:331:LEU:HD11	4:VE:176:GLN:OE1	2.17	0.45
4:VE:316:CYS:N	4:VE:378:LEU:O	2.38	0.45
3:VH:173:PRO:HD3	3:VH:203:ASP:OD1	2.17	0.45
3:VH:199:THR:N	3:VH:264:HIS:O	2.50	0.45
3:VH:374:ILE:HG22	3:VH:378:PHE:CE2	2.52	0.45
4:VI:113:GLU:OE1	4:VI:113:GLU:N	2.50	0.45
3:VJ:39:ASP:OD1	3:VJ:39:ASP:N	2.50	0.45
3:VJ:239:CYS:SG	3:VJ:240:LEU:HD22	2.56	0.45
4:VK:1:MET:SD	4:VK:130:THR:OG1	2.73	0.45
4:VK:68:VAL:HG12	4:VK:93:ILE:HB	1.99	0.45
4:VK:252:LEU:HD12	4:VK:253:THR:N	2.32	0.45
3:VL:30:ILE:HG13	3:VL:36:TYR:CD1	2.52	0.45
3:VL:320:ARG:NH1	3:VL:355:ASP:HB2	2.31	0.45
4:WA:280:LYS:HZ2	4:WA:283:HIS:CE1	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WC:117:LEU:O	4:WC:121:ARG:HG2	2.17	0.45
4:WC:160:ASP:OD1	4:WC:161:TYR:N	2.49	0.45
4:WC:186:ASN:OD1	4:WC:187:SER:N	2.50	0.45
3:WD:285:THR:O	3:WD:288:GLU:HG3	2.17	0.45
3:WD:325:GLU:O	3:WD:329:GLN:HG2	2.17	0.45
3:WF:39:ASP:OD1	3:WF:39:ASP:N	2.47	0.45
3:WF:217:LEU:HD11	3:WF:220:PRO:HB3	1.99	0.45
4:WG:103:TYR:HB2	4:WG:186:ASN:HB2	1.99	0.45
4:WG:255:PHE:O	4:WG:259:LEU:HB2	2.17	0.45
4:WI:10:GLY:O	4:WI:14:VAL:HG13	2.17	0.45
4:WI:22:GLU:HG2	4:WI:83:TYR:CE2	2.51	0.45
3:WJ:41:ASP:N	3:WJ:41:ASP:OD1	2.49	0.45
3:WJ:378:PHE:CD1	3:WJ:419:VAL:HG22	2.51	0.45
4:WK:345:ASP:N	4:WK:345:ASP:OD1	2.50	0.45
33:X:418:GLU:O	33:X:421:ARG:HG2	2.17	0.45
34:XA:22:LEU:O	34:XA:22:LEU:HD23	2.17	0.45
34:XB:87:PHE:HB2	34:XB:159:ASN:O	2.17	0.45
34:XD:38:THR:HG22	35:XJ:199:GLN:HE22	1.81	0.45
34:XD:116:PRO:HA	34:XD:144:TYR:HE2	1.81	0.45
34:XF:92:GLN:HE21	34:XF:100:ARG:HB3	1.81	0.45
34:XG:94:LEU:HD11	34:XG:98:ASN:C	2.42	0.45
35:XI:171:LEU:HD23	35:XI:174:TYR:CE2	2.52	0.45
35:XJ:152:THR:O	35:XJ:155:VAL:HG22	2.16	0.45
36:Y:242:LEU:O	36:Y:246:ILE:HG13	2.17	0.45
37:YD:110:LEU:HD23	37:YD:140:LEU:HB2	1.99	0.45
37:YI:63:ARG:O	37:YI:67:ILE:HG23	2.17	0.45
37:YM:22:GLN:O	37:YM:26:ILE:HD12	2.16	0.45
37:YR:103:LEU:HD22	37:YR:110:LEU:HD11	1.99	0.45
37:YS:116:LYS:O	37:YS:119:HIS:ND1	2.35	0.45
37:YS:124:HIS:ND1	37:YS:124:HIS:O	2.50	0.45
37:YW:25:PHE:CE1	37:YW:29:LEU:HD11	2.52	0.45
1:A:30:VAL:HA	1:A:33:LYS:HG2	1.98	0.45
1:A:140:GLN:HE22	4:HG:278:ALA:HB1	1.82	0.45
1:A:187:TYR:CE1	1:A:191:LEU:HD21	2.52	0.45
1:A:319:VAL:O	1:A:323:LEU:HD23	2.16	0.45
1:A:319:VAL:O	1:A:322:GLU:HG3	2.16	0.45
3:AD:1:MET:HE1	3:AD:49:VAL:HA	1.99	0.45
3:AD:313:VAL:HG23	3:AD:349:VAL:HA	1.98	0.45
4:AE:117:LEU:O	4:AE:121:ARG:HG2	2.17	0.45
4:AE:331:ALA:O	4:AE:335:ILE:HG12	2.17	0.45
4:AE:431:ASP:HA	4:AE:434:GLU:OE1	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AF:266:PHE:HB3	3:AF:368:ILE:HD11	1.99	0.45
4:AG:89:PRO:HB2	4:AG:90:GLU:OE1	2.17	0.45
4:AG:104:ALA:HA	4:AG:107:HIS:HB3	1.99	0.45
4:AG:308:ARG:HA	4:AG:342:GLN:HE22	1.82	0.45
3:AH:164:MET:HG3	3:AH:164:MET:O	2.17	0.45
3:AH:378:PHE:CD1	3:AH:419:VAL:HG22	2.52	0.45
3:AH:389:PHE:HZ	3:AH:405:GLU:HB2	1.82	0.45
4:AI:233:GLN:NE2	4:AI:234:ILE:HG12	2.32	0.45
3:AJ:178:THR:HB	3:AJ:181:GLU:HB2	1.98	0.45
4:AK:165:SER:C	4:AK:166:LYS:HD2	2.42	0.45
4:AK:273:ALA:HB2	4:AK:295:CYS:HB3	1.99	0.45
3:AL:271:ALA:HB2	3:AL:365:ALA:H	1.81	0.45
3:AL:318:ARG:HB3	3:AL:364:SER:OG	2.16	0.45
5:B3:89:ILE:HD11	5:B3:165:LEU:HB3	1.98	0.45
5:B4:188:GLY:HA2	10:E1:153:ARG:O	2.17	0.45
5:B6:128:VAL:HG12	5:B6:130:ARG:NH2	2.31	0.45
5:B8:46:ARG:HD3	5:B9:299:ARG:CZ	2.47	0.45
3:BB:32:PRO:O	3:BB:83:GLN:NE2	2.33	0.45
3:BB:139:LEU:HD21	3:BB:170:VAL:HG22	1.99	0.45
4:BC:12:ALA:HB1	39:BC:501:GTP:N3	2.33	0.45
4:BE:118:VAL:HA	4:BE:121:ARG:CG	2.47	0.45
4:BG:89:PRO:HD2	4:CG:280:LYS:HZ3	1.82	0.45
4:BG:207:GLU:HB2	4:BG:304:LYS:NZ	2.31	0.45
4:BG:263:PRO:HB2	4:BG:264:ARG:NH1	2.32	0.45
3:BH:46:ARG:HH22	4:BI:73:THR:HG23	1.81	0.45
3:BH:218:THR:OG1	3:BH:219:THR:N	2.49	0.45
4:BK:5:ILE:HD13	4:BK:64:ARG:HB3	1.99	0.45
4:BK:145:THR:HG23	39:BK:501:GTP:O3B	2.16	0.45
4:BK:424:ASP:O	4:BK:428:LEU:HG	2.16	0.45
3:BL:92:PHE:HZ	14:G6:305:ASN:HB2	1.82	0.45
6:C:56:MET:HG2	6:C:66:LEU:H	1.82	0.45
6:C:119:PRO:HD3	6:C:177:VAL:HG22	1.99	0.45
7:C2:232:ARG:O	7:C2:236:HIS:ND1	2.50	0.45
7:C2:330:ILE:HG22	7:C2:334:ASN:HD21	1.82	0.45
7:C6:312:GLN:HB2	7:C6:315:ARG:HH21	1.82	0.45
7:C8:120:LEU:HA	7:C8:123:ASP:OD2	2.17	0.45
7:C8:369:LEU:HD23	7:C8:373:PHE:HE2	1.78	0.45
3:CB:249:ASP:O	3:CB:252:LYS:HB3	2.16	0.45
4:CC:102:ASN:HB3	4:CC:105:ARG:HB2	1.98	0.45
3:CD:206:ALA:O	3:CD:210:ILE:HG12	2.17	0.45
3:CF:337:ASN:HB2	3:CF:340:TYR:CD2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CG:396:ASP:OD1	4:CG:397:LEU:N	2.50	0.45
4:CG:431:ASP:O	4:CG:435:VAL:HG22	2.16	0.45
3:CH:99:ASN:OD1	39:CH:501:GTP:PG	2.73	0.45
3:CH:211:CYS:HA	3:CH:215:LEU:HB2	1.98	0.45
3:CH:324:LYS:HD3	4:CI:210:TYR:HE1	1.81	0.45
4:CI:13:GLY:HA2	4:CI:16:ILE:HG12	1.99	0.45
4:CI:150:ALA:O	4:CI:154:MET:N	2.33	0.45
4:CI:398:MET:SD	4:CI:399:TYR:N	2.90	0.45
3:CJ:273:LEU:H	3:CJ:292:GLN:HE22	1.65	0.45
3:CJ:330:MET:HG3	3:CJ:349:VAL:HG11	1.99	0.45
4:CK:115:VAL:O	4:CK:119:LEU:N	2.36	0.45
4:CK:271:THR:HA	4:CK:302:MET:HE1	1.98	0.45
4:CK:272:TYR:CE1	4:CK:374:ALA:HB1	2.51	0.45
3:CL:36:TYR:CE2	3:CL:38:GLY:HA2	2.52	0.45
3:CL:317:PHE:HB3	3:CL:321:MET:HE1	1.98	0.45
4:CM:85:GLN:HG2	4:CM:86:LEU:HD22	1.99	0.45
7:Cc:354:THR:O	7:Cc:358:LYS:HG3	2.16	0.45
8:D5:325:THR:HA	8:D5:328:GLU:CD	2.42	0.45
8:D7:143:ASP:O	8:D7:146:SER:OG	2.23	0.45
8:D7:353:ALA:HB1	8:D7:377:LEU:HD22	1.99	0.45
8:D8:141:ALA:O	8:D8:145:THR:HG23	2.17	0.45
4:DA:88:HIS:HE1	4:DA:90:GLU:OE2	2.00	0.45
4:DA:176:GLN:NE2	4:DA:207:GLU:OE2	2.50	0.45
3:DD:11:GLN:HG3	39:DD:501:GTP:PA	2.57	0.45
3:DD:84:ILE:O	3:DD:86:ARG:NH1	2.49	0.45
3:DF:117:LEU:HD11	3:DF:154:LYS:HD2	1.98	0.45
3:DF:324:LYS:HD3	4:DG:210:TYR:CE1	2.52	0.45
4:DG:256:GLN:O	4:DG:260:VAL:HG12	2.16	0.45
3:DH:12:CYS:HB3	39:DH:501:GTP:H5'	1.99	0.45
3:DH:256:ASN:HB3	3:DH:350:LYS:HG3	1.98	0.45
4:DI:213:CYS:O	4:DI:218:ASP:N	2.50	0.45
3:DJ:249:ASP:O	3:DJ:253:LEU:HG	2.16	0.45
3:DJ:282:ARG:NH2	3:DJ:292:GLN:OE1	2.40	0.45
3:DL:127:CYS:SG	3:DL:130:LEU:HD21	2.57	0.45
8:Da:74:SER:O	8:Da:78:ARG:HG2	2.17	0.45
3:EB:2:ARG:HB3	3:EB:131:GLN:CD	2.41	0.45
4:EC:1:MET:O	4:EC:133:GLN:NE2	2.39	0.45
4:EC:5:ILE:HD13	4:EC:64:ARG:HB3	1.98	0.45
4:EC:11:GLN:HG3	39:EC:501:GTP:O1B	2.17	0.45
4:EC:431:ASP:HA	4:EC:434:GLU:OE2	2.17	0.45
3:ED:270:PHE:O	3:ED:298:ASN:ND2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ED:302:ALA:HB1	3:ED:377:LEU:HD11	1.98	0.45
4:EE:187:SER:OG	4:EE:188:ILE:HD12	2.17	0.45
3:EF:33:THR:O	3:EF:58:LYS:NZ	2.32	0.45
4:EG:262:TYR:CE1	3:EH:393:ALA:HA	2.52	0.45
3:EH:91:VAL:HG11	3:EH:116:VAL:HG12	1.99	0.45
3:EH:214:THR:O	3:EH:276:ARG:NH1	2.37	0.45
3:EH:318:ARG:HD3	3:EH:358:PRO:HG3	1.98	0.45
3:EJ:379:LYS:O	3:EJ:382:SER:OG	2.18	0.45
4:EK:22:GLU:O	4:EK:26:LEU:HD23	2.15	0.45
4:EK:89:PRO:HB2	4:EK:90:GLU:OE1	2.17	0.45
3:EL:205:GLU:HA	3:EL:208:TYR:CD2	2.52	0.45
3:EL:217:LEU:O	3:EL:219:THR:N	2.49	0.45
9:F:364:THR:HB	9:F:367:GLN:HG3	1.99	0.45
11:F1:464:ILE:HA	11:F1:468:LYS:HZ3	1.82	0.45
11:F2:307:ALA:O	11:F2:311:ARG:HG3	2.17	0.45
11:F2:315:ILE:HG23	11:F2:318:ARG:HH21	1.82	0.45
11:F2:334:LYS:O	11:F2:337:THR:OG1	2.26	0.45
11:F3:400:THR:HB	11:F4:286:PHE:CZ	2.52	0.45
11:F4:102:GLN:HA	11:F4:105:ASN:HD22	1.82	0.45
11:F4:122:ARG:NH2	11:F4:125:GLN:OE1	2.48	0.45
11:F6:284:GLU:CD	11:F6:284:GLU:H	2.25	0.45
11:F7:292:ILE:HB	11:F7:295:THR:HG23	1.99	0.45
11:F7:392:ALA:HA	11:F7:395:MET:HE2	1.99	0.45
11:F9:458:LYS:HZ3	11:Fa:95:TRP:HZ2	1.65	0.45
4:FA:226:ASN:O	4:FA:230:LEU:HG	2.17	0.45
4:FA:345:ASP:OD1	4:FA:345:ASP:N	2.50	0.45
4:FC:216:ASN:HB2	4:FC:276:ILE:HD12	1.99	0.45
4:FC:263:PRO:HB2	4:FC:264:ARG:NH1	2.32	0.45
4:FC:287:SER:N	4:FC:290:GLU:OE2	2.50	0.45
3:FD:3:GLU:O	3:FD:130:LEU:HD12	2.17	0.45
3:FD:376:GLU:H	3:FD:376:GLU:CD	2.23	0.45
4:FE:65:ALA:O	4:FE:91:GLN:NE2	2.46	0.45
4:FE:88:HIS:HB3	4:FE:91:GLN:CB	2.45	0.45
3:FF:32:PRO:HA	3:FF:81:PHE:CE2	2.52	0.45
3:FF:249:ASP:OD2	3:FF:251:ARG:HB2	2.15	0.45
4:FG:5:ILE:HB	4:FG:135:PHE:HD1	1.82	0.45
4:FG:387:ALA:O	4:FG:391:LEU:HG	2.17	0.45
3:FH:376:GLU:H	3:FH:376:GLU:CD	2.24	0.45
4:FI:230:LEU:O	4:FI:234:ILE:HG12	2.17	0.45
4:FI:301:GLN:N	4:FI:301:GLN:OE1	2.50	0.45
3:FJ:3:GLU:HG2	3:FJ:130:LEU:HD13	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FJ:137:HIS:O	3:FJ:168:SER:HA	2.17	0.45
3:FJ:385:PHE:CZ	3:FJ:412:GLU:HB3	2.52	0.45
4:FK:2:ARG:O	4:FK:51:THR:OG1	2.22	0.45
11:Fa:377:LEU:O	11:Fa:380:ARG:HG2	2.17	0.45
11:Fb:399:ARG:HE	11:Fb:402:ARG:NH2	2.15	0.45
11:Fc:353:VAL:O	11:Fc:357:LEU:HG	2.17	0.45
11:Fc:358:GLN:HA	11:Fc:361:LEU:HD12	1.99	0.45
11:Fk:373:ASN:O	11:Fk:377:LEU:HG	2.17	0.45
13:G2:107:VAL:HG11	13:G2:110:SER:HB3	1.99	0.45
13:G2:127:GLU:OE2	13:G2:151:ARG:NH2	2.50	0.45
13:G3:440:PHE:CZ	13:G3:442:TYR:HB2	2.51	0.45
13:G3:442:TYR:OH	13:G3:447:ASP:HA	2.17	0.45
14:G4:616:LEU:N	14:G4:680:ARG:HH21	2.14	0.45
14:G4:678:LEU:O	14:G4:682:GLU:HB3	2.17	0.45
14:G5:743:TYR:O	14:G5:745:LEU:N	2.49	0.45
14:G6:436:TYR:HD2	14:G6:507:LEU:HD23	1.82	0.45
4:GA:208:ALA:H	4:GA:304:LYS:NZ	2.14	0.45
3:GB:2:ARG:HA	3:GB:129:CYS:O	2.16	0.45
3:GB:410:GLU:HA	3:GB:413:SER:HB3	1.98	0.45
3:GF:118:ASP:HB3	23:M:127:SER:HB2	1.99	0.45
4:GG:10:GLY:O	4:GG:13:GLY:N	2.50	0.45
4:GI:263:PRO:HD3	3:GJ:396:HIS:CD2	2.52	0.45
4:GI:320:ARG:HG2	4:GI:358:GLN:O	2.16	0.45
3:GJ:227:HIS:HE1	25:N:36:VAL:H	1.65	0.45
4:GK:16:ILE:HD11	4:GK:138:PHE:HB3	1.99	0.45
12:H:450:GLN:HA	12:H:453:MET:HB3	1.99	0.45
15:H5:307:ALA:O	15:H5:310:LYS:N	2.50	0.45
3:HB:289:LEU:O	3:HB:293:MET:HG2	2.16	0.45
39:HB:501:GTP:O3G	39:HB:501:GTP:O3'	2.22	0.45
3:HJ:130:LEU:HB3	3:HJ:162:ARG:NH1	2.32	0.45
4:HK:36:MET:HG3	4:HK:41:THR:OG1	2.17	0.45
4:HK:75:VAL:HG22	4:HK:79:ARG:HD2	1.99	0.45
3:HL:2:ARG:HB3	3:HL:131:GLN:NE2	2.32	0.45
3:HL:11:GLN:O	39:HL:501:GTP:N2	2.49	0.45
3:HL:206:ALA:O	3:HL:210:ILE:HG12	2.16	0.45
17:I2:64:LEU:HD23	17:I2:64:LEU:H	1.82	0.45
4:IA:167:LEU:HD13	4:IA:200:CYS:HB2	1.98	0.45
3:IB:141:GLY:HA3	39:IB:501:GTP:H5"	1.98	0.45
4:IC:318:LEU:O	4:IC:375:VAL:HA	2.17	0.45
3:ID:105:HIS:O	3:ID:150:LEU:HD21	2.17	0.45
4:IG:216:ASN:OD1	4:IG:217:LEU:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IJ:4:ILE:HD11	3:IJ:131:GLN:HB2	1.99	0.45
4:IK:54:SER:N	4:IK:62:VAL:O	2.50	0.45
4:IM:172:TYR:HB2	4:IM:203:MET:HB2	1.99	0.45
4:IM:272:TYR:CE1	4:IM:374:ALA:HB1	2.52	0.45
4:IM:327:ASP:OD1	4:IM:328:VAL:N	2.50	0.45
19:J3:92:HIS:HE1	19:J3:123:TYR:CD2	2.34	0.45
19:J3:124:HIS:HB2	19:J3:126:MET:HE1	1.99	0.45
4:JA:425:LEU:O	4:JA:428:LEU:N	2.50	0.45
3:JB:148:GLY:O	3:JB:152:ILE:HG12	2.17	0.45
3:JB:324:LYS:HD2	4:JC:221:ARG:HA	1.98	0.45
4:JC:262:TYR:HE1	3:JD:393:ALA:HA	1.82	0.45
4:JE:433:GLU:O	4:JE:437:VAL:N	2.43	0.45
3:JF:32:PRO:HA	3:JF:81:PHE:CE1	2.52	0.45
3:JF:174:LYS:HG2	3:JF:205:GLU:OE2	2.16	0.45
3:JH:249:ASP:O	3:JH:253:LEU:HG	2.17	0.45
3:JH:273:LEU:N	3:JH:292:GLN:HE22	2.15	0.45
4:JK:81:GLY:HA2	32:T:317:ARG:HH12	1.81	0.45
4:JK:196:GLU:HG2	4:JK:197:HIS:ND1	2.32	0.45
3:JL:32:PRO:C	3:JL:83:GLN:HE21	2.24	0.45
20:K:125:ARG:NH1	20:K:246:GLU:OE2	2.48	0.45
21:K2:472:VAL:HA	4:KC:163:LYS:HZ1	1.81	0.45
21:K3:139:ARG:HB3	21:K3:264:TRP:CZ2	2.52	0.45
4:KA:202:PHE:CD1	4:KA:268:PRO:HD2	2.52	0.45
4:KC:320:ARG:HD3	4:KC:360:PRO:HG3	1.99	0.45
3:KD:36:TYR:CZ	3:KD:38:GLY:HA2	2.51	0.45
4:KG:166:LYS:N	4:KG:199:ASP:OD2	2.50	0.45
4:KG:345:ASP:N	4:KG:345:ASP:OD1	2.49	0.45
4:KI:306:ASP:OD2	4:KI:309:HIS:N	2.50	0.45
3:KJ:337:ASN:HB2	3:KJ:340:TYR:CD2	2.52	0.45
4:KK:286:LEU:HD11	4:KK:373:ARG:H	1.82	0.45
3:KL:64:VAL:HG21	3:KL:120:VAL:HG12	1.97	0.45
20:L:20:TYR:HA	20:L:23:GLU:OE1	2.17	0.45
22:L1:74:PRO:C	22:L1:75:LYS:HD3	2.42	0.45
22:L3:188:LEU:HD13	22:L3:252:ILE:HD11	1.97	0.45
4:LA:102:ASN:HB3	4:LA:105:ARG:HB2	1.97	0.45
3:LB:12:CYS:O	3:LB:16:ILE:HG12	2.16	0.45
3:LB:239:CYS:SG	3:LB:316:VAL:HG11	2.57	0.45
3:LB:345:ILE:HD12	3:LB:346:PRO:HD2	1.99	0.45
4:LC:35:GLN:NE2	4:LC:42:ILE:HD11	2.32	0.45
4:LC:288:VAL:HG11	4:LC:327:ASP:HB2	1.98	0.45
3:LD:12:CYS:HA	3:LD:15:GLN:NE2	2.21	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LD:190:HIS:NE2	3:LD:414:ASN:OD1	2.50	0.45
4:LE:316:CYS:N	4:LE:378:LEU:O	2.24	0.45
3:LH:324:LYS:HE3	3:LH:324:LYS:HB3	1.73	0.45
4:LI:30:ILE:HD13	4:LI:36:MET:CE	2.46	0.45
4:LI:397:LEU:O	4:LI:401:LYS:HG2	2.16	0.45
3:LJ:9:ALA:HB3	3:LJ:137:HIS:HB3	1.99	0.45
4:LK:189:LEU:HA	4:LK:192:HIS:HD1	1.82	0.45
3:LL:99:ASN:OD1	3:LL:142:GLY:HA3	2.17	0.45
3:LL:217:LEU:O	3:LL:219:THR:N	2.50	0.45
23:M:162:ARG:HD3	23:M:166:CYS:SG	2.56	0.45
3:MB:318:ARG:HG3	3:MB:354:CYS:SG	2.57	0.45
4:MC:196:GLU:OE1	4:MC:196:GLU:N	2.45	0.45
4:MC:208:ALA:HA	4:MC:211:ASP:HB2	1.99	0.45
4:MC:370:LYS:HE3	27:P:342:ASN:HB2	1.99	0.45
3:MD:73:MET:HE3	3:MD:92:PHE:CE1	2.52	0.45
3:MD:235:GLY:O	3:MD:238:THR:OG1	2.26	0.45
3:MD:350:LYS:NZ	4:ME:181:VAL:HG13	2.32	0.45
4:ME:141:PHE:HB2	4:ME:173:PRO:HD3	1.99	0.45
3:MF:311:LEU:HD11	3:MF:372:THR:HG23	1.99	0.45
4:MG:402:ARG:HB2	4:MG:405:VAL:HG11	1.99	0.45
3:MH:275:SER:O	3:MH:279:GLN:HG3	2.17	0.45
4:MI:118:VAL:HA	4:MI:121:ARG:HG2	1.99	0.45
4:MI:189:LEU:HA	4:MI:192:HIS:CD2	2.52	0.45
4:MI:209:ILE:HG23	4:MI:230:LEU:HD21	1.98	0.45
3:MJ:246:LEU:HB2	3:MJ:352:ALA:HB1	1.99	0.45
4:MK:135:PHE:O	4:MK:167:LEU:HB2	2.17	0.45
4:MK:246:GLY:HA2	4:MK:357:TYR:HD2	1.81	0.45
4:MK:316:CYS:HB3	4:MK:378:LEU:HB3	1.99	0.45
3:NB:46:ARG:HH22	4:NC:73:THR:HA	1.82	0.45
3:NB:58:LYS:HE2	3:OB:281:TYR:CE1	2.52	0.45
4:NC:230:LEU:O	4:NC:234:ILE:HG12	2.17	0.45
4:NE:1:MET:O	4:NE:131:GLY:HA3	2.16	0.45
3:NF:132:GLY:HA3	3:NF:163:ILE:H	1.81	0.45
4:NG:25:CYS:O	4:NG:30:ILE:N	2.40	0.45
4:NG:67:PHE:O	4:NG:93:ILE:N	2.50	0.45
4:NG:405:VAL:O	4:NG:409:VAL:HG22	2.16	0.45
4:NI:23:LEU:HD12	4:NI:232:GLY:HA3	1.99	0.45
4:NI:163:LYS:HA	4:NI:163:LYS:HD3	1.80	0.45
4:NI:317:MET:HE1	4:NI:351:PHE:HB3	1.99	0.45
3:NJ:388:MET:O	3:NJ:392:LYS:N	2.50	0.45
3:NL:152:ILE:O	3:NL:156:ARG:HG2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:OB:318:ARG:C	3:OB:321:MET:HE1	2.42	0.45
4:OC:213:CYS:HA	4:OC:217:LEU:HB2	1.98	0.45
4:OC:346:TRP:CE2	3:OD:393:ALA:HB2	2.52	0.45
3:OF:81:PHE:O	3:OF:84:ILE:HG22	2.16	0.45
4:OG:36:MET:SD	4:OG:37:PRO:HD2	2.57	0.45
4:OG:196:GLU:HA	4:OG:264:ARG:NH2	2.32	0.45
4:OI:256:GLN:NE2	4:OI:257:THR:HG23	2.31	0.45
4:OI:261:PRO:HA	3:OJ:394:PHE:CE1	2.52	0.45
4:OK:119:LEU:HD23	4:OK:122:ILE:HD11	1.98	0.45
27:P:17:LYS:O	27:P:21:ILE:HG12	2.17	0.45
27:P:42:GLN:OE1	27:P:42:GLN:N	2.33	0.45
29:P2:63:HIS:ND1	29:P2:83:GLN:HB3	2.32	0.45
29:P2:467:ILE:HG12	29:P2:478:THR:HG22	1.99	0.45
4:PA:11:GLN:N	39:PA:501:GTP:O1B	2.47	0.45
4:PA:345:ASP:N	4:PA:345:ASP:OD1	2.50	0.45
3:PB:292:GLN:HA	3:PB:295:ASP:OD2	2.17	0.45
3:PD:42:LEU:HD12	3:PD:243:PRO:HD2	1.99	0.45
4:PE:399:TYR:OH	4:PE:415:GLU:HB2	2.17	0.45
4:PG:178:SER:OG	4:PG:180:ALA:O	2.35	0.45
3:PH:11:GLN:HG3	39:PH:501:GTP:PA	2.56	0.45
3:PJ:12:CYS:HB3	39:PJ:501:GTP:C5'	2.47	0.45
3:PJ:137:HIS:O	3:PJ:168:SER:HA	2.16	0.45
3:PJ:156:ARG:NE	3:PJ:164:MET:HE3	2.32	0.45
3:PJ:306:ARG:HH22	3:PJ:340:TYR:HE1	1.64	0.45
4:PK:201:ALA:HB3	4:PK:267:PHE:CD1	2.52	0.45
4:PM:185:TYR:HD1	4:PM:418:PHE:CE1	2.35	0.45
30:Q3:1342:GLU:O	30:Q3:1346:GLU:HG2	2.17	0.45
3:QB:42:LEU:HD12	3:QB:243:PRO:HD2	1.99	0.45
3:QD:91:VAL:HG11	3:QD:116:VAL:HG12	1.99	0.45
4:QE:154:MET:HE1	4:QE:197:HIS:HB2	1.98	0.45
3:QF:148:GLY:O	3:QF:152:ILE:HG12	2.17	0.45
4:QG:163:LYS:HA	4:QG:163:LYS:HD3	1.73	0.45
4:QG:272:TYR:HE1	4:QG:374:ALA:HB1	1.81	0.45
3:QH:152:ILE:O	3:QH:156:ARG:HG2	2.17	0.45
3:QH:314:ALA:HB3	3:QH:368:ILE:HG23	1.98	0.45
3:QH:391:ARG:C	3:QH:392:LYS:HG3	2.42	0.45
4:QI:345:ASP:N	4:QI:345:ASP:OD1	2.50	0.45
3:QJ:252:LYS:NZ	4:QK:144:GLY:HA3	2.31	0.45
3:QL:40:SER:HB2	3:QL:43:GLN:CD	2.42	0.45
4:RC:154:MET:HE1	4:RC:197:HIS:HB2	1.99	0.45
3:RD:415:MET:O	3:RD:419:VAL:HG23	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:RE:319:TYR:N	4:RE:354:GLY:O	2.50	0.45
3:RF:180:VAL:HG22	3:RF:183:TYR:HB2	1.98	0.45
3:RH:100:ASN:HB3	3:RH:103:LYS:HG2	1.99	0.45
4:RI:235:VAL:HA	4:RI:238:ILE:HG12	1.99	0.45
4:RM:272:TYR:CE1	4:RM:374:ALA:HB1	2.52	0.45
3:SB:4:ILE:HB	3:SB:50:TYR:CE1	2.52	0.45
4:SC:426:ALA:C	4:SC:430:LYS:HZ2	2.25	0.45
3:SF:77:ARG:HD3	3:SF:90:PHE:HE2	1.81	0.45
3:SF:113:VAL:HB	3:SF:154:LYS:HE3	1.98	0.45
4:SG:186:ASN:OD1	4:SG:187:SER:N	2.50	0.45
4:SI:16:ILE:HD11	4:SI:138:PHE:HB3	1.98	0.45
4:SI:51:THR:HG23	4:SI:52:PHE:CD2	2.51	0.45
4:SI:102:ASN:ND2	4:SI:104:ALA:HB3	2.32	0.45
4:SI:215:ARG:HH12	4:SI:299:ALA:HB1	1.81	0.45
4:SK:113:GLU:OE1	4:SK:113:GLU:N	2.50	0.45
4:SK:210:TYR:OH	4:SK:221:ARG:NH2	2.50	0.45
4:SM:419:SER:HA	4:SM:422:ARG:HH21	1.82	0.45
3:TB:83:GLN:O	3:TB:86:ARG:NH2	2.50	0.45
3:TB:101:TRP:CE3	3:TB:187:LEU:HD13	2.52	0.45
3:TB:269:GLY:N	3:TB:367:PHE:O	2.50	0.45
4:TC:1:MET:HE1	4:TC:51:THR:HB	1.98	0.45
4:TC:3:GLU:N	4:TC:133:GLN:OE1	2.50	0.45
4:TC:12:ALA:HB1	39:TC:501:GTP:C2	2.51	0.45
4:TC:287:SER:N	4:TC:290:GLU:OE2	2.50	0.45
4:TC:329:ASN:HA	4:TC:332:ILE:HG12	1.99	0.45
3:TF:375:GLN:HA	3:TF:378:PHE:CE1	2.51	0.45
4:TI:34:GLY:HA3	4:TI:60:LYS:HD2	1.98	0.45
3:TJ:20:PHE:HA	3:TJ:230:SER:HB2	1.99	0.45
3:TJ:46:ARG:HH22	4:TK:73:THR:HA	1.80	0.45
3:TJ:329:GLN:NE2	3:TJ:332:ASN:HD22	2.15	0.45
33:U:167:GLU:O	33:U:171:GLU:HG2	2.16	0.45
33:U:473:GLN:HA	33:U:476:ASN:HB2	1.97	0.45
4:UA:50:ASN:OD1	4:UA:51:THR:N	2.50	0.45
3:UB:58:LYS:HG2	3:UB:59:TYR:N	2.32	0.45
3:UB:150:LEU:C	3:UB:154:LYS:HZ3	2.25	0.45
3:UB:263:LEU:HD12	3:UB:370:ASN:HD21	1.80	0.45
3:UB:309:ARG:N	3:UB:372:THR:OG1	2.34	0.45
4:UC:22:GLU:HG2	4:UC:83:TYR:CE2	2.52	0.45
3:UD:148:GLY:O	3:UD:152:ILE:HG12	2.17	0.45
4:UE:2:ARG:NH1	4:UE:241:SER:O	2.50	0.45
3:UF:167:PHE:HD1	3:UF:200:TYR:HD2	1.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UF:233:MET:HA	3:UF:236:VAL:HG12	1.98	0.45
4:UI:196:GLU:HG2	4:UI:197:HIS:ND1	2.31	0.45
4:UI:419:SER:HA	4:UI:422:ARG:HH21	1.81	0.45
3:UJ:238:THR:HB	3:UJ:242:PHE:HD2	1.81	0.45
4:UK:76:ASP:OD1	4:UK:79:ARG:NH1	2.50	0.45
3:VB:7:LEU:HB2	3:VB:135:LEU:HG	1.99	0.45
3:VD:218:THR:OG1	3:VD:219:THR:N	2.49	0.45
4:VG:50:ASN:OD1	4:VG:51:THR:N	2.50	0.45
3:VH:80:PRO:HA	33:W:179:ARG:NH1	2.31	0.45
3:VL:52:ASN:OD1	3:VL:62:ARG:NH1	2.50	0.45
3:VL:87:PRO:HA	3:VL:90:PHE:CD2	2.52	0.45
3:VL:131:GLN:HB3	3:VL:163:ILE:HD12	1.98	0.45
3:VL:143:THR:HG22	3:VL:147:MET:CE	2.47	0.45
33:W:194:MET:HA	33:W:197:ILE:HD12	1.99	0.45
4:WA:316:CYS:N	4:WA:378:LEU:O	2.38	0.45
4:WC:74:VAL:O	4:WC:77:GLU:HG2	2.17	0.45
4:WC:220:GLU:O	4:WC:221:ARG:NE	2.49	0.45
3:WD:4:ILE:HB	3:WD:50:TYR:CE1	2.52	0.45
3:WD:11:GLN:HG3	39:WD:501:GTP:O5'	2.18	0.45
3:WD:72:THR:O	3:WD:75:SER:OG	2.31	0.45
3:WD:261:PRO:HD3	4:WE:406:HIS:CD2	2.52	0.45
4:WE:144:GLY:N	39:WE:501:GTP:O2B	2.42	0.45
4:WG:52:PHE:HZ	4:WG:239:THR:HB	1.82	0.45
4:WG:405:VAL:O	4:WG:409:VAL:HG22	2.17	0.45
3:WH:325:GLU:O	3:WH:329:GLN:HG2	2.17	0.45
4:WI:35:GLN:HG2	4:WI:59:GLY:O	2.17	0.45
34:XB:102:ARG:HE	34:XB:153:ARG:NH2	2.05	0.45
34:XC:125:LEU:HG	34:XC:126:ASP:H	1.81	0.45
35:XH:204:ASN:O	35:XH:208:LEU:HG	2.17	0.45
35:XI:83:GLU:HG3	35:XI:86:LYS:HB2	1.99	0.45
36:Y:216:ILE:HG22	36:Y:220:LYS:HZ2	1.81	0.45
37:YK:57:CYS:O	37:YK:63:ARG:NH1	2.49	0.45
37:YO:146:ASP:OD1	37:YO:147:PHE:N	2.50	0.45
37:YP:89:GLY:O	37:YP:94:ASN:ND2	2.49	0.45
37:YQ:14:LYS:HZ2	37:YQ:15:TYR:HE1	1.64	0.45
37:YQ:162:VAL:HA	37:YQ:165:HIS:CE1	2.52	0.45
37:YR:61:THR:O	37:YR:65:ILE:HG12	2.17	0.45
37:YU:106:GLN:HG2	37:YU:107:SER:N	2.32	0.45
36:Z:299:LYS:CD	36:Z:300:ARG:H	2.29	0.45
38:a:53:ASP:O	38:a:56:GLU:HG2	2.16	0.45
1:A:69:MET:O	1:A:73:ILE:HG12	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A1:323:ARG:HB3	2:A1:327:GLU:HB3	1.99	0.44
2:A2:323:ARG:NH1	2:A3:180:THR:O	2.50	0.44
2:A3:267:GLY:O	2:A3:270:GLU:HG3	2.17	0.44
2:A4:41:SER:O	2:A4:44:LEU:HG	2.17	0.44
2:A4:230:LYS:HA	2:A4:230:LYS:HD2	1.83	0.44
4:AC:1:MET:O	4:AC:133:GLN:NE2	2.50	0.44
3:AD:324:LYS:HG3	4:AE:221:ARG:NH1	2.32	0.44
3:AD:375:GLN:HA	3:AD:378:PHE:CE1	2.52	0.44
4:AE:296:PHE:HE2	4:AE:335:ILE:HG21	1.81	0.44
3:AF:292:GLN:O	3:AF:298:ASN:ND2	2.43	0.44
4:AG:168:GLU:HB2	4:AG:201:ALA:HA	1.98	0.44
3:AH:415:MET:O	3:AH:419:VAL:HG23	2.17	0.44
4:AI:168:GLU:HB2	4:AI:201:ALA:HA	1.98	0.44
4:AI:317:MET:HB2	4:AI:375:VAL:HG21	1.99	0.44
4:AM:10:GLY:O	4:AM:14:VAL:HG13	2.17	0.44
4:AM:392:ASP:O	4:AM:396:ASP:N	2.34	0.44
1:B:306:LEU:O	1:B:309:THR:OG1	2.34	0.44
1:B:371:GLU:O	1:B:374:THR:OG1	2.29	0.44
5:B1:302:GLU:HA	5:B1:305:ARG:HH21	1.82	0.44
5:B3:172:LEU:HD23	5:B3:172:LEU:HA	1.82	0.44
5:B3:284:LYS:HA	5:B3:287:LEU:HD12	1.98	0.44
5:B3:338:LEU:HA	5:B3:341:GLU:OE1	2.18	0.44
5:B3:408:VAL:HG23	5:B3:409:ASP:H	1.82	0.44
5:B6:39:ARG:NH1	5:B7:293:LEU:HA	2.32	0.44
5:B6:119:LEU:HD22	5:B6:389:LYS:HZ2	1.82	0.44
5:B7:167:GLU:HA	5:B7:170:GLN:HG3	1.98	0.44
5:B9:301:GLU:HB2	5:B9:305:ARG:NH1	2.32	0.44
3:BB:255:VAL:HA	4:BC:407:TRP:CE2	2.52	0.44
3:BB:392:LYS:HB2	3:BB:395:LEU:HD13	1.99	0.44
4:BE:171:ILE:HD12	4:BE:204:VAL:HG13	1.98	0.44
3:BF:311:LEU:HD11	3:BF:372:THR:HG23	1.99	0.44
3:BF:378:PHE:CD1	3:BF:419:VAL:HG22	2.51	0.44
4:BG:2:ARG:HA	4:BG:133:GLN:NE2	2.32	0.44
4:BG:210:TYR:OH	4:BG:221:ARG:NH2	2.50	0.44
4:BG:272:TYR:HE1	4:BG:374:ALA:HB1	1.82	0.44
3:BH:175:VAL:HG22	3:BH:177:ASP:H	1.82	0.44
3:BH:246:LEU:HB2	3:BH:352:ALA:HB1	1.98	0.44
3:BJ:101:TRP:HB2	3:BJ:184:ASN:HD22	1.82	0.44
3:BJ:151:LEU:HA	3:BJ:154:LYS:HE3	1.99	0.44
3:BJ:152:ILE:O	3:BJ:156:ARG:HG2	2.17	0.44
3:BJ:251:ARG:O	3:BJ:255:VAL:HG22	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BJ:387:ALA:O	3:BJ:390:ARG:NE	2.50	0.44
4:BK:22:GLU:O	4:BK:26:LEU:HD23	2.17	0.44
4:BK:331:ALA:O	4:BK:334:THR:OG1	2.25	0.44
3:BL:131:GLN:HB3	3:BL:163:ILE:HD12	1.99	0.44
7:C3:365:LEU:HB2	7:C3:455:LEU:CD2	2.47	0.44
7:C4:219:LEU:HA	7:C4:222:GLU:HG3	1.99	0.44
7:C6:318:SER:O	7:C6:322:ARG:HG3	2.16	0.44
7:C7:397:GLN:O	7:C7:400:LEU:N	2.49	0.44
7:C8:122:VAL:O	7:C8:125:SER:OG	2.27	0.44
4:CC:290:GLU:OE1	4:CC:290:GLU:N	2.35	0.44
3:CD:31:ASP:OD1	3:CD:31:ASP:N	2.50	0.44
4:CG:259:LEU:HD13	4:CG:314:ALA:HB1	1.99	0.44
3:CH:52:ASN:ND2	3:CH:62:ARG:HD3	2.31	0.44
3:CH:130:LEU:HB2	3:CH:162:ARG:NH1	2.30	0.44
4:CI:408:TYR:O	4:CI:411:GLU:HG3	2.17	0.44
4:CI:433:GLU:O	4:CI:437:VAL:N	2.46	0.44
4:CK:51:THR:HG23	4:CK:52:PHE:CD2	2.52	0.44
4:CK:98:ASP:O	4:CK:105:ARG:NH2	2.37	0.44
4:CK:161:TYR:HB3	4:CK:164:LYS:HZ3	1.82	0.44
3:CL:32:PRO:HD2	14:G6:289:PRO:HG3	1.98	0.44
3:CL:36:TYR:CE2	3:CL:44:LEU:HD21	2.52	0.44
7:Ca:377:MET:HA	7:Ca:380:GLU:CD	2.43	0.44
7:Cb:156:TRP:O	7:Cb:160:ILE:HG12	2.16	0.44
7:Cd:306:ASP:HA	7:Cd:309:LEU:HD12	1.98	0.44
8:D3:211:CYS:HA	8:D3:214:ASN:ND2	2.32	0.44
8:D4:172:VAL:HG13	8:D4:304:PHE:HE1	1.80	0.44
8:D5:332:GLN:HB3	8:D5:402:LEU:HD21	1.99	0.44
8:D7:159:ARG:O	8:D7:159:ARG:NE	2.47	0.44
8:D7:169:ARG:NH2	8:D8:50:LYS:HB3	2.32	0.44
8:D8:437:TYR:HA	8:D8:438:PRO:HD3	1.88	0.44
8:D9:323:ARG:NH2	11:F4:268:PHE:HE2	2.14	0.44
4:DC:245:ASP:O	4:DC:356:ASN:ND2	2.50	0.44
3:DD:309:ARG:H	3:DD:372:THR:HG1	1.61	0.44
4:DE:8:HIS:CE1	4:DE:21:TRP:CH2	2.98	0.44
4:DE:182:VAL:O	4:DE:185:TYR:HB2	2.17	0.44
3:DF:9:ALA:HB3	3:DF:135:LEU:HD11	1.98	0.44
3:DF:39:ASP:OD1	3:DF:39:ASP:N	2.51	0.44
3:DF:144:GLY:HA2	3:DF:147:MET:HG2	2.00	0.44
4:DG:91:GLN:HG3	4:DG:121:ARG:HH21	1.82	0.44
4:DG:255:PHE:O	4:DG:259:LEU:HB2	2.17	0.44
3:DH:21:TRP:CZ2	3:DH:63:ALA:HB2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DI:70:LEU:HB3	4:DI:97:GLU:O	2.17	0.44
4:DI:182:VAL:O	4:DI:185:TYR:HB2	2.16	0.44
4:DI:264:ARG:O	4:DI:266:HIS:ND1	2.50	0.44
3:DJ:20:PHE:O	3:DJ:24:ILE:HG12	2.17	0.44
3:DJ:324:LYS:HE3	4:DK:210:TYR:CE1	2.47	0.44
4:DK:5:ILE:HD13	4:DK:64:ARG:HB3	1.99	0.44
4:DK:50:ASN:O	4:DK:64:ARG:NH1	2.50	0.44
10:E3:43:ILE:HG13	10:E3:44:LYS:N	2.32	0.44
4:EA:132:LEU:HD12	4:EA:132:LEU:O	2.16	0.44
4:EC:23:LEU:HD11	4:EC:229:ARG:HA	1.99	0.44
3:ED:4:ILE:HB	3:ED:50:TYR:CE1	2.52	0.44
4:EE:196:GLU:HG2	4:EE:197:HIS:ND1	2.32	0.44
3:EF:175:VAL:HG22	3:EF:177:ASP:H	1.82	0.44
4:EG:88:HIS:HB3	4:EG:91:GLN:CB	2.47	0.44
4:EG:363:VAL:HG13	4:EG:366:GLY:HA3	1.98	0.44
3:EH:217:LEU:HB2	13:G2:392:ASP:OD2	2.17	0.44
3:EH:246:LEU:HB2	3:EH:352:ALA:HB1	1.99	0.44
4:EI:390:ARG:HA	4:EI:393:HIS:CD2	2.52	0.44
4:EK:389:ALA:HA	4:EK:392:ASP:OD2	2.18	0.44
9:F:405:THR:OG1	9:F:409:PRO:HD3	2.17	0.44
11:F1:160:LEU:HD13	11:F1:250:LEU:CD1	2.43	0.44
11:F1:233:ALA:O	11:F1:236:ILE:HG22	2.16	0.44
11:F2:94:ASP:O	11:F2:97:ARG:HD3	2.16	0.44
11:F2:232:LEU:HD23	11:F2:235:ARG:NH2	2.27	0.44
11:F2:407:LEU:HB3	11:F3:289:THR:HA	1.99	0.44
11:F3:233:ALA:HA	11:F3:236:ILE:HG12	1.99	0.44
11:F4:184:VAL:HG13	11:F4:226:GLN:HE21	1.82	0.44
11:F4:295:THR:HA	11:F4:298:LYS:HG2	1.99	0.44
11:F9:408:CYS:HB3	11:Fa:296:TRP:CH2	2.52	0.44
4:FA:271:THR:HB	4:FA:377:MET:HB2	1.98	0.44
3:FB:101:TRP:CE3	3:FB:187:LEU:HD13	2.51	0.44
3:FB:121:ARG:HA	3:FB:124:ALA:HB3	1.99	0.44
4:FC:202:PHE:CE1	4:FC:268:PRO:HD2	2.53	0.44
3:FD:2:ARG:HA	3:FD:129:CYS:O	2.17	0.44
3:FD:12:CYS:HB3	39:FD:501:GTP:H5'	1.99	0.44
3:FD:91:VAL:HG11	3:FD:116:VAL:HG12	1.99	0.44
4:FE:216:ASN:ND2	4:FE:275:VAL:HG23	2.32	0.44
4:FE:389:ALA:HA	4:FE:392:ASP:OD2	2.17	0.44
3:FF:6:HIS:HD2	3:FF:134:GLN:HG2	1.81	0.44
3:FF:52:ASN:CG	3:FF:62:ARG:HH11	2.25	0.44
3:FF:267:MET:O	3:FF:369:GLY:N	2.39	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FF:324:LYS:HE2	4:FG:222:PRO:HD2	1.99	0.44
3:FH:321:MET:SD	3:FH:363:MET:HG3	2.57	0.44
3:FH:323:MET:SD	3:FH:324:LYS:NZ	2.90	0.44
3:FH:392:LYS:HD2	3:FH:392:LYS:O	2.17	0.44
4:FI:169:PHE:HD1	4:FI:202:PHE:HB2	1.82	0.44
4:FI:196:GLU:HG2	4:FI:197:HIS:ND1	2.32	0.44
4:FI:389:ALA:HA	4:FI:392:ASP:OD2	2.18	0.44
3:FJ:272:PRO:HA	3:FJ:292:GLN:OE1	2.17	0.44
4:FK:163:LYS:HA	4:FK:163:LYS:HD3	1.77	0.44
4:FK:425:LEU:HD12	4:FK:428:LEU:HB2	1.99	0.44
39:FK:501:GTP:O4'	39:FK:501:GTP:N3	2.49	0.44
3:FL:208:TYR:CE1	3:FL:225:LEU:HD21	2.52	0.44
3:FL:269:GLY:O	3:FL:367:PHE:N	2.35	0.44
3:FL:282:ARG:NH2	3:FL:292:GLN:OE1	2.30	0.44
11:Fe:171:ASP:HB3	11:Fe:175:ARG:NH1	2.32	0.44
11:Fe:252:ARG:HD2	11:Fe:252:ARG:HA	1.83	0.44
11:Fj:208:HIS:O	11:Fj:213:LYS:NZ	2.49	0.44
11:Fk:132:HIS:HA	11:Fk:135:GLN:HG3	1.99	0.44
11:Fl:376:MET:HA	11:Fl:379:GLU:HG3	1.99	0.44
12:G:272:GLN:O	12:G:276:GLN:N	2.40	0.44
13:G1:448:MET:HE1	13:G1:471:LYS:HG3	1.99	0.44
14:G4:439:LYS:HZ1	14:G4:523:LEU:HD13	1.81	0.44
14:G4:560:ARG:NH1	14:G4:563:THR:HG21	2.32	0.44
14:G5:203:THR:O	14:G5:207:VAL:HG23	2.17	0.44
14:G6:587:MET:HE3	14:G6:594:LEU:HG	1.99	0.44
14:G6:649:LYS:C	14:G6:650:LYS:HD2	2.42	0.44
3:GB:238:THR:HG22	3:GB:241:ARG:NH2	2.32	0.44
3:GD:408:PHE:O	3:GD:412:GLU:HG3	2.16	0.44
4:GE:67:PHE:HB2	4:GE:92:LEU:HD13	1.98	0.44
4:GE:135:PHE:HE2	4:GE:166:LYS:HE3	1.82	0.44
3:GF:101:TRP:HB2	3:GF:184:ASN:HD22	1.82	0.44
3:GH:99:ASN:OD1	3:GH:142:GLY:HA3	2.16	0.44
3:GH:245:GLN:HE22	4:GI:15:GLN:HE22	1.65	0.44
3:GH:378:PHE:CD1	3:GH:419:VAL:HG22	2.52	0.44
3:GJ:12:CYS:SG	39:GJ:501:GTP:H5'	2.57	0.44
3:GJ:217:LEU:HD23	3:GJ:217:LEU:O	2.17	0.44
4:GK:76:ASP:HA	4:GK:79:ARG:HG2	1.99	0.44
4:GK:216:ASN:OD1	4:GK:217:LEU:N	2.50	0.44
15:H6:281:LEU:HD23	15:H6:282:ILE:H	1.82	0.44
4:HA:46:ASP:HA	4:HA:50:ASN:HB3	1.98	0.44
3:HD:31:ASP:HB3	3:HD:37:HIS:NE2	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HF:143:THR:HG22	3:HF:147:MET:HE3	1.99	0.44
4:HG:118:VAL:HA	4:HG:121:ARG:HG2	1.98	0.44
3:HH:11:GLN:OE1	39:HH:501:GTP:N2	2.50	0.44
4:HI:202:PHE:CE1	4:HI:378:LEU:HD11	2.51	0.44
3:HJ:406:MET:O	3:HJ:409:THR:OG1	2.32	0.44
4:HK:166:LYS:N	4:HK:199:ASP:OD2	2.50	0.44
3:HL:304:ASP:HB3	3:HL:307:HIS:CE1	2.52	0.44
4:IA:263:PRO:HB2	4:IA:264:ARG:NH1	2.31	0.44
3:IB:32:PRO:O	3:IB:83:GLN:NE2	2.35	0.44
3:IB:188:SER:O	3:IB:192:LEU:HG	2.17	0.44
3:IB:423:GLN:O	3:IB:427:ASP:N	2.49	0.44
4:IE:140:SER:HA	4:IE:170:ALA:HB1	1.99	0.44
3:IF:12:CYS:SG	39:IF:501:GTP:H5'	2.57	0.44
3:IF:148:GLY:O	3:IF:152:ILE:HG12	2.17	0.44
3:IF:240:LEU:HD13	3:IF:248:ALA:HB1	1.98	0.44
3:IF:269:GLY:HA3	3:IF:367:PHE:HB3	1.98	0.44
4:IG:225:THR:HB	4:IG:229:ARG:HH21	1.83	0.44
4:IG:252:LEU:HA	4:IG:255:PHE:CD2	2.52	0.44
3:IL:112:LEU:HD21	3:IL:147:MET:HE1	1.99	0.44
3:IL:174:LYS:HG2	3:IL:205:GLU:OE2	2.17	0.44
3:IL:277:GLY:O	3:IL:280:GLN:NE2	2.50	0.44
3:IL:309:ARG:NE	3:IL:426:GLN:HE21	2.01	0.44
3:IL:375:GLN:HA	3:IL:378:PHE:CE1	2.52	0.44
19:J1:24:ILE:HB	19:J1:28:LEU:HD23	1.98	0.44
19:J1:171:PRO:HD3	19:J1:187:GLU:OE1	2.17	0.44
19:J3:105:CYS:SG	19:J3:111:ARG:NE	2.89	0.44
4:JA:113:GLU:OE1	4:JA:113:GLU:N	2.45	0.44
4:JA:165:SER:C	4:JA:166:LYS:HD2	2.42	0.44
4:JA:265:ILE:HD12	4:JA:432:TYR:CE1	2.52	0.44
4:JA:427:ALA:HA	4:JA:430:LYS:HG2	1.98	0.44
3:JB:52:ASN:OD1	3:JB:62:ARG:NH1	2.50	0.44
4:JC:11:GLN:O	4:JC:14:VAL:HG22	2.18	0.44
4:JC:22:GLU:O	4:JC:26:LEU:HD23	2.17	0.44
4:JC:213:CYS:O	4:JC:218:ASP:N	2.50	0.44
4:JE:21:TRP:HE1	4:JE:65:ALA:HB3	1.82	0.44
4:JE:203:MET:SD	4:JE:203:MET:N	2.91	0.44
3:JF:32:PRO:O	3:JF:83:GLN:NE2	2.42	0.44
4:JG:180:ALA:HB3	4:JG:183:GLU:HB2	1.98	0.44
4:JG:196:GLU:HG2	4:JG:197:HIS:ND1	2.31	0.44
4:JI:201:ALA:H	4:JI:266:HIS:HD2	1.66	0.44
4:JI:368:LEU:HD23	4:JI:368:LEU:H	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:JI:438:ASP:C	3:JJ:391:ARG:HH12	2.25	0.44
3:JJ:31:ASP:OD2	3:JJ:35:THR:OG1	2.30	0.44
3:JJ:61:PRO:HD3	3:JJ:84:ILE:HG13	1.99	0.44
3:JJ:410:GLU:HA	3:JJ:413:SER:HB3	1.97	0.44
3:JL:31:ASP:OD1	3:JL:31:ASP:N	2.50	0.44
3:JL:155:ILE:HA	3:JL:158:GLU:HB2	1.98	0.44
3:JL:389:PHE:HZ	3:JL:405:GLU:HB2	1.82	0.44
21:K1:394:ASN:O	21:K1:399:ARG:NH2	2.50	0.44
21:K2:374:THR:HA	21:K2:377:ILE:HD12	1.99	0.44
21:K3:15:ARG:HH21	21:K3:16:VAL:HG23	1.83	0.44
4:KA:113:GLU:OE1	4:KA:113:GLU:N	2.48	0.44
4:KA:301:GLN:N	4:KA:301:GLN:OE1	2.50	0.44
3:KB:19:LYS:HZ1	3:KB:227:HIS:HB2	1.82	0.44
3:KB:334:GLN:O	3:KB:338:SER:OG	2.22	0.44
4:KC:83:TYR:HB3	4:KC:86:LEU:HD12	1.99	0.44
4:KC:163:LYS:HA	4:KC:163:LYS:HD3	1.66	0.44
4:KC:260:VAL:O	3:KD:397:TRP:HH2	1.99	0.44
4:KC:280:LYS:HD2	4:KC:280:LYS:HA	1.72	0.44
3:KD:224:ASP:O	3:KD:228:LEU:HG	2.16	0.44
4:KE:280:LYS:HZ2	4:KE:283:HIS:CE1	2.35	0.44
4:KE:371:VAL:HG11	4:KE:374:ALA:HB2	1.99	0.44
3:KF:152:ILE:HD12	3:KF:195:ASN:HB2	1.99	0.44
3:KF:218:THR:OG1	3:KF:219:THR:N	2.48	0.44
4:KG:235:VAL:HA	4:KG:238:ILE:HG12	1.98	0.44
3:KH:148:GLY:O	3:KH:152:ILE:HG12	2.16	0.44
3:KH:309:ARG:O	3:KH:371:SER:OG	2.25	0.44
4:KI:285:GLN:NE2	4:KI:286:LEU:O	2.50	0.44
3:KJ:286:VAL:HG21	3:KJ:325:GLU:HG3	1.99	0.44
4:KK:88:HIS:CE1	4:KK:121:ARG:HH22	2.35	0.44
4:KK:216:ASN:OD1	4:KK:217:LEU:N	2.49	0.44
20:L:95:MET:SD	20:L:97:PRO:HD3	2.57	0.44
22:L3:193:ARG:HA	22:L3:196:VAL:HB	1.99	0.44
4:LA:123:ARG:HA	4:LA:126:ALA:HB3	1.99	0.44
3:LB:150:LEU:O	3:LB:153:SER:OG	2.34	0.44
3:LB:189:VAL:HA	3:LB:192:LEU:HD12	1.99	0.44
3:LB:324:LYS:HE2	4:LC:222:PRO:HG2	1.99	0.44
3:LD:312:THR:OG1	3:LD:370:ASN:HB3	2.17	0.44
4:LE:320:ARG:HG2	4:LE:358:GLN:O	2.16	0.44
4:LE:331:ALA:O	4:LE:335:ILE:HG12	2.16	0.44
4:LG:13:GLY:HA2	4:LG:16:ILE:HG12	1.98	0.44
3:LH:272:PRO:HA	3:LH:292:GLN:OE1	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LJ:14:ASN:ND2	3:LJ:67:ASP:OD2	2.50	0.44
3:LJ:130:LEU:HB2	3:LJ:162:ARG:HH11	1.81	0.44
24:M1:43:PRO:HA	24:M1:100:GLU:HA	1.98	0.44
4:ME:287:SER:OG	4:ME:290:GLU:OE1	2.26	0.44
3:MF:150:LEU:C	3:MF:154:LYS:HZ3	2.24	0.44
4:MI:89:PRO:HB2	4:MI:90:GLU:OE1	2.17	0.44
4:MI:306:ASP:HB3	4:MI:309:HIS:ND1	2.32	0.44
4:MI:389:ALA:HA	4:MI:392:ASP:OD2	2.17	0.44
4:MK:22:GLU:O	4:MK:26:LEU:HD23	2.17	0.44
3:ML:391:ARG:O	3:ML:391:ARG:CG	2.61	0.44
4:MM:70:LEU:HB3	4:MM:97:GLU:O	2.17	0.44
4:MM:205:ASP:OD2	4:MM:304:LYS:NZ	2.41	0.44
4:MM:224:TYR:HB3	4:MM:228:ASN:ND2	2.32	0.44
4:MM:272:TYR:CE1	4:MM:374:ALA:HB1	2.52	0.44
3:NB:285:THR:O	3:NB:288:GLU:HG3	2.17	0.44
3:ND:52:ASN:OD1	3:ND:62:ARG:NH1	2.50	0.44
3:NH:415:MET:O	3:NH:419:VAL:HG23	2.17	0.44
3:NJ:189:VAL:HA	3:NJ:192:LEU:HB3	1.99	0.44
4:NK:154:MET:HE1	4:NK:197:HIS:HB2	1.99	0.44
3:NL:337:ASN:HB2	3:NL:340:TYR:CD2	2.52	0.44
28:O3:75:PRO:HB2	28:O3:76:PRO:HD3	1.99	0.44
4:OA:433:GLU:O	4:OA:437:VAL:N	2.40	0.44
4:OC:28:HIS:HB2	4:OC:30:ILE:HG12	1.99	0.44
4:OC:260:VAL:HG23	4:OC:265:ILE:O	2.17	0.44
4:OC:296:PHE:HE1	4:OC:377:MET:HE2	1.82	0.44
3:OD:258:VAL:HB	4:OE:407:TRP:CZ2	2.49	0.44
3:OF:258:VAL:HB	4:OG:407:TRP:HZ2	1.82	0.44
3:OH:47:ILE:HG21	3:OH:59:TYR:CZ	2.52	0.44
3:OH:173:PRO:O	3:OH:380:ARG:NH2	2.47	0.44
4:OI:272:TYR:CZ	4:OI:274:PRO:HG2	2.52	0.44
3:OJ:73:MET:O	3:OJ:77:ARG:N	2.41	0.44
3:OJ:172:SER:OG	3:OJ:205:GLU:OE2	2.20	0.44
3:OJ:309:ARG:N	3:OJ:372:THR:OG1	2.30	0.44
4:OK:104:ALA:HA	4:OK:107:HIS:HB3	1.99	0.44
3:OL:11:GLN:OE1	39:OL:501:GTP:N2	2.50	0.44
29:P1:173:MET:HE1	29:P1:184:VAL:HG13	1.98	0.44
29:P3:389:ILE:O	29:P3:400:ALA:HA	2.17	0.44
29:P3:487:ILE:HD13	29:P3:531:VAL:HG13	1.98	0.44
4:PC:102:ASN:ND2	4:PC:411:GLU:OE2	2.44	0.44
3:PD:395:LEU:HD23	3:PD:395:LEU:H	1.82	0.44
3:PF:51:TYR:CD1	3:PF:61:PRO:HA	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PH:255:VAL:HA	4:PI:407:TRP:CH2	2.53	0.44
4:PI:12:ALA:HB2	39:PI:501:GTP:H5"	1.99	0.44
4:PK:46:ASP:HA	4:PK:50:ASN:HB3	1.99	0.44
3:PL:252:LYS:HD3	4:PM:100:ALA:HA	1.98	0.44
4:PM:141:PHE:HE2	4:PM:203:MET:HG3	1.81	0.44
30:Q1:1473:ASP:HA	30:Q1:1476:LYS:HG2	1.98	0.44
30:Q2:1377:GLU:HG2	30:Q2:1378:GLU:N	2.32	0.44
30:Q3:1386:TYR:HE2	30:Q3:1399:PHE:HD1	1.65	0.44
30:Q3:1444:GLN:N	30:Q3:1445:PRO:HD2	2.31	0.44
30:Q3:1471:VAL:O	30:Q3:1475:ARG:HG3	2.17	0.44
4:QE:54:SER:N	4:QE:62:VAL:O	2.49	0.44
3:QF:51:TYR:CD1	3:QF:61:PRO:HA	2.52	0.44
3:QF:235:GLY:O	3:QF:238:THR:OG1	2.30	0.44
4:QI:34:GLY:HA3	4:QI:60:LYS:HD2	1.99	0.44
4:QI:49:PHE:O	4:QI:53:PHE:N	2.50	0.44
4:QI:229:ARG:NH1	4:QI:233:GLN:HB2	2.33	0.44
3:QJ:378:PHE:HA	3:QJ:381:ILE:HG22	1.99	0.44
4:QK:22:GLU:O	4:QK:26:LEU:HD23	2.16	0.44
4:QK:165:SER:C	4:QK:166:LYS:HD2	2.42	0.44
3:QL:77:ARG:HD3	3:QL:90:PHE:CE2	2.53	0.44
4:QM:345:ASP:N	4:QM:345:ASP:OD1	2.51	0.44
3:RB:271:ALA:HA	3:RB:293:MET:HE1	1.99	0.44
4:RC:280:LYS:HZ2	4:RC:283:HIS:CE1	2.34	0.44
3:RD:12:CYS:SG	39:RD:501:GTP:H5'	2.57	0.44
4:RE:76:ASP:OD1	4:RE:79:ARG:NH1	2.50	0.44
4:RE:107:HIS:CD2	4:RE:152:LEU:HB2	2.52	0.44
4:RG:429:GLU:O	4:RG:432:TYR:N	2.48	0.44
3:RH:2:ARG:HA	3:RH:129:CYS:O	2.17	0.44
4:RI:88:HIS:CE1	4:SI:280:LYS:HZ3	2.34	0.44
4:RI:136:LEU:HB3	4:RI:138:PHE:CE2	2.52	0.44
4:RI:260:VAL:O	3:RJ:397:TRP:HH2	2.00	0.44
3:RJ:324:LYS:HE2	4:RK:222:PRO:HD2	1.99	0.44
4:RK:12:ALA:O	39:RK:501:GTP:N1	2.50	0.44
3:RL:211:CYS:HA	3:RL:215:LEU:HD12	1.99	0.44
4:RM:35:GLN:HG2	4:RM:59:GLY:O	2.17	0.44
4:RM:115:VAL:HA	4:RM:118:VAL:HG22	1.98	0.44
4:RM:188:ILE:HG22	4:RM:421:ALA:HB1	1.99	0.44
3:SB:262:ARG:HG2	3:SB:263:LEU:HD22	1.99	0.44
4:SC:269:LEU:N	4:SC:379:SER:O	2.40	0.44
4:SE:208:ALA:H	4:SE:304:LYS:NZ	2.12	0.44
4:SE:269:LEU:HD11	4:SE:384:ILE:HG21	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:SF:47:ILE:HG12	3:SF:59:TYR:CD2	2.52	0.44
3:SF:345:ILE:HA	4:SG:398:MET:HE1	1.98	0.44
4:SG:321:GLY:N	4:SG:356:ASN:O	2.31	0.44
3:SH:7:LEU:HD13	3:SH:64:VAL:HB	1.98	0.44
3:SH:91:VAL:HG11	3:SH:116:VAL:HG12	1.99	0.44
4:SI:66:VAL:HG12	4:SI:68:VAL:HG13	1.98	0.44
4:SI:102:ASN:HB3	4:SI:105:ARG:HD3	1.99	0.44
4:SI:212:ILE:HG13	4:SI:215:ARG:HH21	1.82	0.44
3:SJ:117:LEU:HA	3:SJ:120:VAL:HG12	2.00	0.44
4:SK:18:ASN:O	4:SK:22:GLU:N	2.36	0.44
3:SL:299:MET:SD	3:SL:300:MET:N	2.90	0.44
4:TC:119:LEU:HD23	4:TC:122:ILE:HD11	1.98	0.44
4:TC:146:GLY:N	39:TC:501:GTP:O2B	2.45	0.44
3:TD:42:LEU:HD11	3:TD:356:ILE:HG21	1.99	0.44
4:TE:189:LEU:HA	4:TE:192:HIS:HD1	1.82	0.44
4:TE:327:ASP:OD1	4:TE:328:VAL:N	2.50	0.44
3:TF:173:PRO:HD3	3:TF:203:ASP:OD1	2.16	0.44
3:TF:406:MET:O	3:TF:409:THR:OG1	2.25	0.44
4:TG:172:TYR:N	4:TG:204:VAL:O	2.27	0.44
3:TH:39:ASP:OD1	3:TH:39:ASP:N	2.49	0.44
3:TH:243:PRO:HD2	3:TH:356:ILE:HG13	1.98	0.44
3:TH:324:LYS:HE2	4:TI:222:PRO:CD	2.47	0.44
4:TI:206:ASN:HA	4:TI:209:ILE:HD12	1.99	0.44
4:TK:163:LYS:HA	4:TK:163:LYS:HD3	1.78	0.44
3:TL:107:THR:OG1	3:TL:401:GLU:OE2	2.34	0.44
3:TL:306:ARG:O	3:TL:306:ARG:NE	2.44	0.44
4:TM:165:SER:C	4:TM:166:LYS:HD2	2.41	0.44
4:TM:255:PHE:O	4:TM:259:LEU:HB2	2.17	0.44
4:TM:321:GLY:HA3	4:TM:372:GLN:O	2.16	0.44
4:UA:22:GLU:O	4:UA:26:LEU:HD23	2.16	0.44
4:UA:175:PRO:O	4:UA:390:ARG:HD3	2.18	0.44
3:UB:32:PRO:O	3:UB:83:GLN:NE2	2.41	0.44
4:UC:196:GLU:HG2	4:UC:197:HIS:ND1	2.32	0.44
3:UD:324:LYS:HE2	4:UE:222:PRO:CD	2.47	0.44
3:UF:19:LYS:NZ	3:UF:223:GLY:O	2.49	0.44
3:UF:206:ALA:O	3:UF:210:ILE:HG12	2.17	0.44
4:UG:39:ASP:HA	33:X:540:ARG:HH22	1.81	0.44
4:UG:141:PHE:HE2	4:UG:203:MET:HE1	1.83	0.44
4:UK:3:GLU:CD	4:UK:131:GLY:H	2.25	0.44
4:UK:154:MET:HE1	4:UK:197:HIS:HB2	1.98	0.44
3:UL:54:ALA:HA	3:VL:283:ALA:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:VA:161:TYR:O	4:VA:166:LYS:NZ	2.49	0.44
3:VB:70:PRO:HA	3:VB:73:MET:HE3	1.99	0.44
3:VB:139:LEU:N	3:VB:168:SER:OG	2.49	0.44
4:VC:88:HIS:HB3	4:VC:91:GLN:CB	2.46	0.44
4:VC:188:ILE:HG22	4:VC:421:ALA:HB1	1.97	0.44
4:VC:196:GLU:HG2	4:VC:197:HIS:ND1	2.32	0.44
4:VG:22:GLU:HG2	4:VG:83:TYR:CE2	2.52	0.44
4:VG:210:TYR:CE1	4:VG:227:LEU:HD21	2.52	0.44
4:VI:321:GLY:HA3	4:VI:372:GLN:O	2.17	0.44
33:W:330:LEU:O	33:W:334:ARG:HG2	2.18	0.44
4:WA:204:VAL:HG22	4:WA:209:ILE:HD11	1.99	0.44
3:WF:5:VAL:HG23	3:WF:130:LEU:HD21	1.99	0.44
3:WF:72:THR:O	3:WF:75:SER:OG	2.28	0.44
4:WI:329:ASN:HA	4:WI:332:ILE:HG12	1.98	0.44
3:WJ:345:ILE:HD11	4:WK:181:VAL:HG11	1.98	0.44
4:WK:2:ARG:HA	4:WK:133:GLN:HE22	1.82	0.44
4:WK:207:GLU:HB2	4:WK:304:LYS:HZ1	1.83	0.44
3:WL:174:LYS:HG3	3:WL:175:VAL:HG12	1.99	0.44
3:WL:217:LEU:O	3:WL:219:THR:N	2.47	0.44
33:X:490:VAL:O	33:X:494:LEU:N	2.37	0.44
33:X:514:ILE:O	33:X:518:LYS:HG2	2.17	0.44
34:XD:84:LYS:NZ	35:XJ:241:ASN:H	2.15	0.44
34:XF:27:LYS:HE3	34:XF:34:ILE:HD13	1.98	0.44
34:XF:138:ASP:OD1	34:XF:141:ARG:NH2	2.50	0.44
35:XL:80:TRP:HZ2	35:XL:117:ASP:HB3	1.83	0.44
35:XM:58:LYS:HA	35:XM:61:GLU:HB2	1.98	0.44
36:Y:155:LEU:HD12	36:Z:470:ARG:HH22	1.82	0.44
37:YD:96:LEU:HD23	37:YD:99:LYS:HE3	1.99	0.44
37:YG:125:LEU:HD11	37:YG:138:VAL:HG21	1.99	0.44
37:YJ:67:ILE:HG13	37:YJ:68:MET:N	2.32	0.44
37:YN:71:ASP:O	37:YN:75:GLU:N	2.49	0.44
37:YN:80:CYS:O	37:YN:84:GLU:N	2.50	0.44
37:YO:140:LEU:O	37:YO:144:VAL:HG23	2.16	0.44
37:YO:141:ILE:HB	37:YO:142:PRO:HD3	1.98	0.44
37:YP:27:ALA:O	37:YP:31:HIS:ND1	2.50	0.44
37:YQ:26:ILE:HD12	37:YQ:134:TYR:HE1	1.82	0.44
36:Z:277:ARG:HE	36:Z:280:GLU:HG3	1.82	0.44
1:A:195:LEU:HD23	1:A:198:GLN:HE22	1.81	0.44
1:A:206:TYR:O	1:A:210:LEU:HG	2.17	0.44
2:A2:170:ASN:HA	2:A2:173:LYS:HZ3	1.82	0.44
2:A2:343:GLU:O	2:A2:347:ASN:ND2	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A3:368:ARG:HH21	2:A4:27:ALA:HB2	1.82	0.44
3:AB:52:ASN:OD1	3:AB:62:ARG:NH1	2.51	0.44
3:AB:189:VAL:HA	3:AB:192:LEU:HB3	2.00	0.44
4:AC:274:PRO:HG3	4:AC:374:ALA:HA	1.98	0.44
4:AC:283:HIS:HE1	4:MC:88:HIS:HA	1.83	0.44
4:AC:430:LYS:HE2	34:XB:102:ARG:CZ	2.47	0.44
3:AD:186:THR:HA	3:AD:189:VAL:HG12	2.00	0.44
4:AG:30:ILE:HG23	4:AG:36:MET:HE1	1.99	0.44
3:AJ:31:ASP:N	3:AJ:31:ASP:OD1	2.49	0.44
3:AJ:198:GLU:HG2	3:AJ:266:PHE:CD2	2.52	0.44
4:AK:1:MET:SD	4:AK:2:ARG:N	2.91	0.44
4:AK:11:GLN:O	4:AK:14:VAL:HG22	2.16	0.44
4:AK:272:TYR:HE1	4:AK:374:ALA:HB1	1.82	0.44
3:AL:11:GLN:HG3	39:AL:501:GTP:PA	2.57	0.44
3:AL:152:ILE:O	3:AL:156:ARG:HG2	2.17	0.44
3:AL:247:ASN:CG	3:AL:252:LYS:HE2	2.43	0.44
3:AL:305:PRO:HA	3:AL:373:ALA:HB2	1.99	0.44
5:B1:268:ARG:O	5:B1:272:MET:HG2	2.17	0.44
5:B2:246:ALA:O	5:B2:249:GLN:HG2	2.17	0.44
5:B4:159:PHE:CD2	8:D2:433:HIS:HD2	2.35	0.44
5:B6:177:ARG:O	5:B6:180:MET:HG3	2.16	0.44
4:BC:186:ASN:HA	4:BC:189:LEU:HD12	1.99	0.44
4:BC:216:ASN:ND2	4:BC:275:VAL:O	2.50	0.44
4:BE:165:SER:C	4:BE:166:LYS:HD2	2.42	0.44
4:BI:196:GLU:HG2	4:BI:197:HIS:ND1	2.32	0.44
4:BI:269:LEU:HD11	4:BI:384:ILE:HG21	1.98	0.44
3:BJ:14:ASN:HD21	3:BJ:67:ASP:HB2	1.82	0.44
3:BL:217:LEU:HD11	3:BL:220:PRO:HB3	1.99	0.44
6:C:34:ASP:OD1	4:JC:282:TYR:OH	2.27	0.44
6:C:138:THR:N	6:C:183:LEU:O	2.40	0.44
6:C:164:PHE:HD2	6:C:168:LEU:HD22	1.82	0.44
7:C1:282:SER:H	7:C2:398:THR:HG22	1.81	0.44
7:C2:132:TYR:CE1	7:C2:136:ARG:HD2	2.52	0.44
7:C3:337:TRP:HH2	10:E2:179:THR:OG1	2.00	0.44
7:C3:371:GLU:O	7:C3:375:ILE:HG12	2.16	0.44
7:C9:202:ARG:HA	7:C9:472:LYS:HE3	1.99	0.44
3:CB:31:ASP:OD2	3:CB:33:THR:OG1	2.35	0.44
3:CB:394:PHE:HD1	3:CB:397:TRP:CZ3	2.35	0.44
3:CD:132:GLY:CA	3:CD:163:ILE:H	2.29	0.44
3:CD:218:THR:OG1	3:CD:219:THR:N	2.49	0.44
3:CD:404:ASP:N	3:CD:404:ASP:OD1	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CF:31:ASP:OD2	3:CF:35:THR:OG1	2.31	0.44
3:CF:150:LEU:O	3:CF:153:SER:OG	2.32	0.44
3:CF:312:THR:OG1	3:CF:370:ASN:HB3	2.16	0.44
3:CF:324:LYS:NZ	4:CG:222:PRO:O	2.36	0.44
4:CG:103:TYR:HB2	4:CG:186:ASN:HB2	1.99	0.44
4:CI:85:GLN:OE1	4:CI:85:GLN:N	2.35	0.44
4:CI:345:ASP:N	4:CI:345:ASP:OD1	2.51	0.44
4:CI:368:LEU:HD23	4:CI:368:LEU:H	1.83	0.44
4:CK:196:GLU:HG2	4:CK:197:HIS:ND1	2.32	0.44
4:CK:402:ARG:HB2	4:CK:405:VAL:HG11	2.00	0.44
3:CL:246:LEU:HB3	3:CL:353:VAL:O	2.17	0.44
7:Ca:399:ARG:O	7:Ca:403:ARG:HG3	2.17	0.44
7:Cb:147:GLY:O	7:Cb:150:VAL:HG12	2.16	0.44
7:Cc:98:ASP:OD1	7:Cc:102:SER:OG	2.35	0.44
7:Cc:156:TRP:HB2	7:Cc:261:LYS:NZ	2.32	0.44
7:Cc:321:LEU:O	7:Cc:325:THR:HG23	2.17	0.44
7:Cc:414:ASP:N	7:Cc:417:GLN:OE1	2.38	0.44
8:D2:315:LEU:HD13	8:D2:318:LEU:HD12	1.98	0.44
8:D4:195:GLY:O	8:D4:198:VAL:HG22	2.17	0.44
8:D4:200:GLN:HG3	8:D4:204:ASN:HD21	1.82	0.44
8:D6:370:ARG:HE	8:D6:375:PHE:HE1	1.64	0.44
8:D9:75:GLU:OE1	8:D9:79:HIS:NE2	2.50	0.44
8:D9:180:THR:C	8:D9:184:ARG:HE	2.25	0.44
8:D9:335:GLN:CG	8:Da:78:ARG:HH21	2.30	0.44
4:DA:9:VAL:HA	4:DA:68:VAL:HG23	1.99	0.44
3:DB:47:ILE:HG12	3:DB:59:TYR:CD2	2.52	0.44
3:DB:317:PHE:HB3	3:DB:321:MET:HE3	1.98	0.44
4:DC:259:LEU:HD13	4:DC:314:ALA:HB1	1.97	0.44
4:DE:19:ALA:HA	4:DE:22:GLU:OE1	2.17	0.44
4:DE:290:GLU:O	4:DE:294:ALA:N	2.47	0.44
3:DF:139:LEU:HD21	3:DF:170:VAL:HG22	2.00	0.44
4:DK:105:ARG:O	4:DK:109:THR:OG1	2.26	0.44
3:DL:51:TYR:CD1	3:DL:61:PRO:HA	2.52	0.44
10:E1:170:LEU:HD23	10:E1:175:ARG:HB2	1.99	0.44
10:E3:48:ARG:HB2	10:E3:63:TRP:CE2	2.52	0.44
4:EA:420:GLU:HA	4:EA:423:GLU:OE2	2.17	0.44
3:EB:67:ASP:HB2	3:EB:73:MET:SD	2.57	0.44
3:EF:218:THR:OG1	3:EF:219:THR:N	2.49	0.44
4:EG:172:TYR:N	4:EG:204:VAL:O	2.37	0.44
3:EJ:101:TRP:CE3	3:EJ:187:LEU:HD13	2.52	0.44
3:EJ:196:THR:OG1	3:EJ:198:GLU:O	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EL:199:THR:N	3:EL:264:HIS:O	2.49	0.44
9:F:340:TYR:CZ	4:IK:279:GLU:HA	2.52	0.44
11:F1:175:ARG:O	11:F1:178:GLU:HG3	2.16	0.44
11:F3:402:ARG:HH11	11:F3:407:LEU:HA	1.82	0.44
11:F5:245:ASP:O	11:F5:248:HIS:HB3	2.18	0.44
11:F7:291:SER:O	11:F8:409:ARG:HD3	2.16	0.44
11:F7:390:LYS:HG2	11:F7:393:GLN:HE21	1.82	0.44
3:FB:254:ALA:O	3:FB:258:VAL:N	2.48	0.44
3:FB:318:ARG:HB3	3:FB:364:SER:OG	2.17	0.44
4:FC:104:ALA:O	4:FC:108:TYR:N	2.47	0.44
4:FC:141:PHE:HB2	4:FC:173:PRO:HD3	1.99	0.44
3:FD:375:GLN:H	3:FD:375:GLN:CD	2.25	0.44
4:FE:145:THR:OG1	39:FE:501:GTP:O1B	2.35	0.44
4:FE:207:GLU:HB2	4:FE:304:LYS:NZ	2.32	0.44
4:FE:216:ASN:HD21	4:FE:275:VAL:HG23	1.82	0.44
4:FE:252:LEU:HA	4:FE:255:PHE:CD2	2.52	0.44
4:FE:254:GLU:OE1	4:FE:254:GLU:N	2.47	0.44
3:FH:150:LEU:O	3:FH:153:SER:OG	2.33	0.44
3:FH:385:PHE:CE1	3:FH:412:GLU:HG2	2.51	0.44
4:FI:182:VAL:O	4:FI:185:TYR:HB2	2.17	0.44
11:Fb:156:LEU:O	11:Fb:160:LEU:HG	2.17	0.44
11:Fc:296:TRP:HD1	11:Fc:296:TRP:O	2.00	0.44
11:Fc:336:PHE:CZ	11:Fc:476:PHE:HB2	2.52	0.44
11:Fe:238:PHE:HD1	11:Fe:241:ARG:NH1	2.16	0.44
11:Fg:395:MET:HE2	11:Fg:395:MET:N	2.32	0.44
11:Fl:221:LEU:HD11	11:Fl:335:GLN:NE2	2.27	0.44
11:Fm:308:GLN:OE1	11:Fm:311:ARG:NH1	2.51	0.44
12:G:205:TRP:CH2	3:GJ:280:GLN:HB3	2.53	0.44
12:G:259:LEU:HB3	12:G:263:LYS:NZ	2.32	0.44
13:G1:210:ASP:O	13:G1:213:THR:OG1	2.29	0.44
13:G1:423:LEU:HB2	13:G1:507:ASP:CG	2.43	0.44
13:G2:245:PHE:O	13:G2:263:ILE:HA	2.18	0.44
14:G4:398:SER:HB3	14:G4:401:ASP:HB2	1.99	0.44
14:G5:120:VAL:HG13	14:G5:123:SER:HB3	1.98	0.44
14:G6:285:PRO:HD2	14:G6:347:TRP:NE1	2.24	0.44
4:GA:143:GLY:O	4:GA:147:SER:OG	2.26	0.44
3:GB:150:LEU:O	3:GB:154:LYS:HG2	2.16	0.44
4:GC:105:ARG:O	4:GC:109:THR:OG1	2.31	0.44
4:GE:70:LEU:HB3	4:GE:97:GLU:O	2.18	0.44
4:GG:226:ASN:HD22	4:GG:229:ARG:NH2	2.14	0.44
3:GH:320:ARG:HB2	3:GH:362:LYS:HE2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GJ:261:PRO:HD3	4:GK:406:HIS:CG	2.53	0.44
4:GK:10:GLY:O	4:GK:14:VAL:HG13	2.18	0.44
15:H1:252:PHE:HA	15:H1:255:ARG:HD3	1.97	0.44
15:H5:245:ASP:HA	15:H5:248:ASP:OD2	2.17	0.44
15:H5:302:ASN:HA	15:H5:305:ARG:HG2	2.00	0.44
15:H6:303:SER:HA	15:H6:306:ARG:NE	2.32	0.44
4:HA:145:THR:HG23	39:HA:501:GTP:O3B	2.17	0.44
3:HD:207:LEU:HD12	3:HD:228:LEU:HD12	1.99	0.44
3:HF:100:ASN:HB2	3:HF:103:LYS:NZ	2.33	0.44
3:HF:234:SER:O	3:HF:238:THR:HG23	2.17	0.44
3:HH:39:ASP:OD1	3:HH:39:ASP:N	2.49	0.44
4:HI:119:LEU:HB3	4:HI:123:ARG:NH2	2.33	0.44
4:HK:12:ALA:HB1	39:HK:501:GTP:C2	2.51	0.44
3:HL:87:PRO:HA	3:HL:90:PHE:CD2	2.52	0.44
3:HL:130:LEU:HB2	3:HL:162:ARG:NH1	2.32	0.44
3:HL:205:GLU:HA	3:HL:208:TYR:CD2	2.52	0.44
3:HL:273:LEU:H	3:HL:292:GLN:NE2	2.15	0.44
3:HL:419:VAL:O	3:HL:423:GLN:NE2	2.49	0.44
3:IB:375:GLN:H	3:IB:375:GLN:CD	2.24	0.44
4:IE:2:ARG:NH1	4:IE:241:SER:O	2.50	0.44
3:IF:87:PRO:HG2	4:JE:280:LYS:NZ	2.31	0.44
3:IF:324:LYS:HG3	4:IG:221:ARG:NH1	2.32	0.44
3:IF:390:ARG:HD2	3:IF:390:ARG:HA	1.78	0.44
4:IG:68:VAL:HA	4:IG:93:ILE:O	2.17	0.44
4:IG:257:THR:OG1	4:IG:258:ASN:ND2	2.51	0.44
4:IG:319:TYR:HD2	4:IG:323:VAL:HG11	1.82	0.44
3:IH:172:SER:HB3	3:IH:175:VAL:O	2.17	0.44
4:II:174:ALA:HB3	4:II:177:VAL:O	2.16	0.44
3:IJ:12:CYS:HA	39:IJ:501:GTP:N2	2.32	0.44
3:IJ:230:SER:HA	3:IJ:233:MET:HE3	1.99	0.44
3:IL:29:GLY:N	3:IL:359:ARG:HH12	2.15	0.44
3:IL:421:GLU:HG2	3:IL:425:TYR:HE2	1.82	0.44
4:IM:184:PRO:O	4:IM:188:ILE:HG12	2.17	0.44
18:J:130:LYS:HD2	18:J:130:LYS:O	2.17	0.44
19:J1:81:TYR:HA	19:J1:84:PHE:CD2	2.52	0.44
19:J2:32:ASN:HD21	19:J2:35:VAL:HG23	1.81	0.44
3:JB:305:PRO:HA	3:JB:373:ALA:HB2	1.99	0.44
3:JB:389:PHE:HZ	3:JB:405:GLU:HB2	1.78	0.44
4:JC:88:HIS:CE1	4:KC:280:LYS:HZ3	2.35	0.44
4:JC:420:GLU:HA	4:JC:423:GLU:OE2	2.17	0.44
4:JG:392:ASP:OD1	4:JG:393:HIS:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JH:8:GLN:NE2	3:JH:17:GLY:HA3	2.32	0.44
3:JH:130:LEU:HD13	3:JH:133:PHE:CE1	2.52	0.44
3:JH:309:ARG:H	3:JH:372:THR:HG1	1.55	0.44
4:JI:11:GLN:NE2	39:JI:501:GTP:PB	2.91	0.44
4:JI:390:ARG:HA	4:JI:393:HIS:CD2	2.52	0.44
3:JL:117:LEU:HB3	3:JL:121:ARG:NH2	2.32	0.44
3:JL:234:SER:O	3:JL:238:THR:HG23	2.18	0.44
20:K:176:SER:OG	20:K:180:GLY:N	2.50	0.44
21:K1:379:LYS:HG3	21:K1:379:LYS:O	2.17	0.44
21:K2:326:GLN:HB2	21:K2:468:ARG:NH2	2.32	0.44
21:K4:129:HIS:NE2	21:K4:288:THR:HG22	2.33	0.44
21:K4:349:ARG:HA	21:K4:352:MET:HE3	1.98	0.44
4:KA:271:THR:HB	4:KA:377:MET:HE3	1.98	0.44
3:KB:15:GLN:NE2	3:KB:222:TYR:CE2	2.85	0.44
3:KB:148:GLY:O	3:KB:152:ILE:HG12	2.17	0.44
3:KB:269:GLY:O	3:KB:367:PHE:N	2.40	0.44
3:KB:292:GLN:HA	3:KB:295:ASP:OD2	2.17	0.44
4:KE:254:GLU:OE1	4:KE:254:GLU:N	2.46	0.44
4:KG:263:PRO:HB2	4:KG:264:ARG:NH1	2.33	0.44
3:KH:2:ARG:HB2	3:KH:131:GLN:NE2	2.33	0.44
3:KH:52:ASN:CG	3:KH:62:ARG:HH11	2.24	0.44
3:KH:234:SER:O	3:KH:238:THR:HG23	2.16	0.44
4:KI:167:LEU:HB3	4:KI:169:PHE:CE1	2.53	0.44
3:KJ:91:VAL:HG11	3:KJ:116:VAL:HG12	1.98	0.44
4:KK:265:ILE:HD12	4:KK:432:TYR:CE1	2.53	0.44
3:KL:11:GLN:OE1	39:KL:501:GTP:N2	2.49	0.44
3:KL:58:LYS:NZ	3:LL:280:GLN:O	2.33	0.44
3:KL:404:ASP:OD2	3:KL:406:MET:HE2	2.18	0.44
22:L4:65:LYS:HA	3:LL:414:ASN:OD1	2.16	0.44
4:LA:47:ASP:O	4:LA:49:PHE:N	2.51	0.44
4:LA:346:TRP:CH2	4:LA:435:VAL:HA	2.52	0.44
3:LB:328:GLU:OE1	3:LB:332:ASN:ND2	2.50	0.44
4:LC:243:ARG:HG2	4:LC:244:PHE:CE2	2.52	0.44
4:LC:265:ILE:HA	4:LC:267:PHE:CE2	2.51	0.44
4:LC:362:VAL:HA	4:LC:368:LEU:HD21	1.99	0.44
3:LD:16:ILE:O	3:LD:20:PHE:N	2.32	0.44
3:LD:94:GLN:HG3	3:LD:94:GLN:O	2.17	0.44
3:LD:150:LEU:C	3:LD:154:LYS:HZ3	2.25	0.44
4:LE:135:PHE:HD2	4:LE:166:LYS:HG3	1.83	0.44
3:LF:3:GLU:OE2	3:LF:127:CYS:HB3	2.18	0.44
3:LF:224:ASP:O	3:LF:228:LEU:HG	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LH:12:CYS:HB3	39:LH:501:GTP:O4'	2.17	0.44
3:LH:136:THR:HA	3:LH:167:PHE:HB2	1.98	0.44
3:LH:258:VAL:O	4:LI:407:TRP:NE1	2.46	0.44
3:LJ:31:ASP:OD1	3:LJ:35:THR:N	2.49	0.44
3:LJ:272:PRO:HA	3:LJ:292:GLN:OE1	2.17	0.44
3:LJ:330:MET:HE1	4:LK:177:VAL:HG22	1.99	0.44
3:MB:378:PHE:CD1	3:MB:419:VAL:HG22	2.53	0.44
4:MC:293:ASN:O	4:MC:297:GLU:N	2.50	0.44
4:ME:47:ASP:O	4:ME:50:ASN:N	2.39	0.44
4:ME:172:TYR:CE2	4:ME:387:ALA:HB1	2.52	0.44
3:MH:371:SER:HG	3:MH:372:THR:H	1.63	0.44
4:MI:371:VAL:HG11	4:MI:374:ALA:HB2	1.99	0.44
3:ML:217:LEU:HD11	3:ML:220:PRO:HB3	1.99	0.44
3:ML:229:VAL:O	3:ML:232:THR:OG1	2.28	0.44
3:ML:410:GLU:HA	3:ML:413:SER:HB3	1.99	0.44
4:NA:66:VAL:HG12	4:NA:68:VAL:HG13	1.99	0.44
3:NB:246:LEU:HB3	3:NB:353:VAL:O	2.18	0.44
4:NE:113:GLU:N	4:NE:113:GLU:OE1	2.49	0.44
4:NG:174:ALA:HB1	4:NG:207:GLU:OE2	2.16	0.44
4:NG:292:THR:HA	4:NG:295:CYS:SG	2.57	0.44
3:NH:206:ALA:O	3:NH:210:ILE:HG12	2.17	0.44
3:NH:330:MET:SD	3:NH:349:VAL:HG21	2.58	0.44
4:NI:274:PRO:HG3	4:NI:374:ALA:HA	1.99	0.44
3:NJ:266:PHE:HD1	3:NJ:370:ASN:HB2	1.82	0.44
3:NJ:347:ASN:HB3	4:NK:178:SER:HB3	1.98	0.44
3:NL:412:GLU:O	3:NL:416:ASN:N	2.39	0.44
4:OA:261:PRO:HA	3:OB:394:PHE:HE1	1.83	0.44
4:OC:280:LYS:O	4:OC:284:GLU:HB2	2.17	0.44
4:OE:79:ARG:O	4:OE:84:ARG:HG3	2.16	0.44
3:OF:290:THR:HG21	3:OF:329:GLN:HB3	1.99	0.44
3:OF:299:MET:SD	3:OF:301:ALA:N	2.90	0.44
4:OG:35:GLN:HG2	4:OG:59:GLY:O	2.16	0.44
4:OG:201:ALA:N	4:OG:266:HIS:HD2	2.15	0.44
3:OH:320:ARG:NH1	3:OH:355:ASP:HB2	2.32	0.44
3:OH:375:GLN:HA	3:OH:378:PHE:CE1	2.52	0.44
4:OI:345:ASP:N	4:OI:345:ASP:OD1	2.50	0.44
3:OJ:3:GLU:OE2	3:OJ:129:CYS:N	2.51	0.44
3:OJ:87:PRO:HA	3:OJ:90:PHE:CD2	2.52	0.44
3:OJ:137:HIS:O	3:OJ:168:SER:HA	2.18	0.44
3:OJ:324:LYS:HD3	4:OK:210:TYR:CE1	2.52	0.44
3:OL:97:ALA:C	3:OL:103:LYS:HE2	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:P:168:GLY:O	27:P:172:LYS:HG3	2.18	0.44
29:P1:372:VAL:HG12	29:P1:375:MET:HE2	1.99	0.44
29:P2:383:MET:CG	29:P2:388:SER:HB2	2.47	0.44
29:P2:489:ASP:HB2	29:P2:496:ASN:OD1	2.17	0.44
29:P3:336:GLN:HA	29:P3:591:MET:SD	2.58	0.44
4:PA:176:GLN:NE2	4:PA:207:GLU:OE2	2.49	0.44
3:PB:290:THR:HG21	3:PB:329:GLN:HB3	1.99	0.44
4:PC:99:ALA:HB3	4:PC:144:GLY:O	2.16	0.44
4:PC:146:GLY:N	39:PC:501:GTP:O2B	2.49	0.44
4:PE:433:GLU:O	4:PE:437:VAL:N	2.44	0.44
4:PG:103:TYR:HB2	4:PG:186:ASN:HB2	1.98	0.44
4:PI:50:ASN:OD1	4:PI:51:THR:N	2.51	0.44
4:PK:220:GLU:O	4:PK:221:ARG:NE	2.47	0.44
4:PK:331:ALA:O	4:PK:335:ILE:HG12	2.17	0.44
3:PL:183:TYR:CD1	3:PL:388:MET:HE3	2.53	0.44
30:Q2:1359:SER:HB2	30:Q2:1362:GLU:HG2	1.99	0.44
30:Q2:1468:LEU:HA	30:Q2:1506:SER:HA	2.00	0.44
3:QB:404:ASP:OD1	3:QB:404:ASP:N	2.49	0.44
4:QC:6:SER:HB3	4:QC:65:ALA:HB2	1.97	0.44
4:QC:10:GLY:O	4:QC:14:VAL:HG13	2.17	0.44
4:QC:10:GLY:HA2	4:QC:145:THR:OG1	2.17	0.44
4:QC:315:CYS:O	4:QC:351:PHE:HA	2.17	0.44
4:QC:397:LEU:O	4:QC:401:LYS:HE2	2.17	0.44
4:QE:89:PRO:HD2	4:RE:280:LYS:NZ	2.30	0.44
4:QE:319:TYR:N	4:QE:354:GLY:O	2.49	0.44
3:QH:105:HIS:O	3:QH:150:LEU:HD21	2.17	0.44
4:QI:273:ALA:HB2	4:QI:295:CYS:HB3	2.00	0.44
4:QK:47:ASP:HB3	4:QK:49:PHE:CE2	2.52	0.44
3:QL:81:PHE:O	3:QL:84:ILE:HG22	2.17	0.44
39:QL:502:GTP:O2B	4:QM:144:GLY:N	2.49	0.44
3:RB:73:MET:HE2	3:RB:92:PHE:CE2	2.52	0.44
4:RE:167:LEU:HB3	4:RE:169:PHE:CE1	2.52	0.44
3:RF:249:ASP:O	3:RF:253:LEU:HG	2.17	0.44
4:RG:293:ASN:HA	4:RG:296:PHE:CE2	2.51	0.44
4:RG:358:GLN:NE2	4:RG:359:PRO:O	2.44	0.44
3:RH:186:THR:HA	3:RH:189:VAL:HG12	1.98	0.44
3:RH:198:GLU:HA	3:RH:266:PHE:HE2	1.82	0.44
3:RH:284:LEU:HG	3:RH:289:LEU:HD11	1.98	0.44
4:RI:139:HIS:CD2	4:RI:170:ALA:HB2	2.52	0.44
4:RI:288:VAL:O	4:RI:292:THR:OG1	2.21	0.44
3:RL:289:LEU:O	3:RL:293:MET:N	2.44	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:SB:102:ALA:HA	3:SB:105:HIS:HB3	1.99	0.44
4:SE:141:PHE:HB2	4:SE:173:PRO:HD3	1.99	0.44
3:SF:3:GLU:OE2	3:SF:127:CYS:HB2	2.17	0.44
3:SF:342:VAL:HG23	3:SF:345:ILE:HG22	1.99	0.44
3:SH:141:GLY:HA3	39:SH:501:GTP:H5"	1.99	0.44
4:SI:182:VAL:O	4:SI:185:TYR:HB2	2.18	0.44
4:SI:438:ASP:C	3:SJ:391:ARG:HH12	2.25	0.44
3:SJ:249:ASP:O	3:SJ:253:LEU:HG	2.17	0.44
4:SK:116:ASP:N	4:SK:116:ASP:OD1	2.49	0.44
4:SK:367:ASP:N	4:SK:367:ASP:OD1	2.50	0.44
3:SL:258:VAL:HB	4:SM:407:TRP:HZ2	1.83	0.44
4:SM:6:SER:HA	4:SM:136:LEU:HB2	1.99	0.44
4:SM:223:THR:OG1	4:SM:225:THR:OG1	2.21	0.44
4:TC:262:TYR:OH	3:TD:391:ARG:O	2.34	0.44
3:TD:372:THR:HG21	3:TD:426:GLN:HB2	1.98	0.44
4:TE:196:GLU:HG2	4:TE:197:HIS:ND1	2.32	0.44
4:TE:256:GLN:O	4:TE:260:VAL:HG12	2.17	0.44
3:TF:19:LYS:NZ	3:TF:227:HIS:HB2	2.33	0.44
3:TF:87:PRO:HA	3:TF:90:PHE:CD2	2.52	0.44
3:TF:182:PRO:HG2	3:TF:388:MET:HE1	1.98	0.44
4:TG:402:ARG:HB2	4:TG:405:VAL:HG11	2.00	0.44
3:TH:67:ASP:OD2	3:TH:72:THR:OG1	2.35	0.44
4:TI:46:ASP:HA	4:TI:50:ASN:HB3	1.99	0.44
4:TI:119:LEU:HD23	4:TI:122:ILE:HD12	2.00	0.44
4:TI:119:LEU:HB3	4:TI:123:ARG:NH2	2.32	0.44
4:TM:427:ALA:HA	4:TM:430:LYS:HG2	2.00	0.44
3:TN:306:ARG:HH22	3:TN:340:TYR:HE1	1.63	0.44
33:U:435:LEU:O	33:U:438:GLN:HG3	2.17	0.44
3:UB:52:ASN:ND2	3:UB:62:ARG:HD3	2.31	0.44
3:UD:292:GLN:HA	3:UD:295:ASP:OD2	2.18	0.44
4:UE:260:VAL:O	3:UF:397:TRP:HH2	1.99	0.44
3:UF:2:ARG:HB3	3:UF:131:GLN:NE2	2.32	0.44
3:UF:378:PHE:CD1	3:UF:419:VAL:HG22	2.51	0.44
39:UF:501:GTP:O3G	39:UF:501:GTP:O3'	2.23	0.44
4:UG:116:ASP:N	4:UG:116:ASP:OD1	2.47	0.44
3:UH:12:CYS:O	3:UH:16:ILE:HG12	2.17	0.44
3:UH:73:MET:O	3:UH:77:ARG:N	2.35	0.44
3:UL:218:THR:OG1	3:UL:219:THR:N	2.50	0.44
4:VA:11:GLN:O	4:VA:14:VAL:HG22	2.18	0.44
4:VA:295:CYS:CB	4:VA:377:MET:HE3	2.47	0.44
3:VB:34:GLY:HA3	3:VB:58:LYS:HZ2	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:VC:333:ALA:HA	4:VC:336:LYS:HD2	1.99	0.44
3:VD:6:HIS:HB3	3:VD:21:TRP:HZ2	1.82	0.44
4:VE:178:SER:OG	4:VE:180:ALA:O	2.35	0.44
4:VE:301:GLN:OE1	4:VE:301:GLN:N	2.50	0.44
4:VE:333:ALA:HA	4:VE:336:LYS:HD2	1.99	0.44
3:VF:188:SER:O	3:VF:192:LEU:HG	2.16	0.44
3:VF:398:TYR:HB3	3:VF:403:MET:HB3	1.98	0.44
3:VH:114:ASP:N	3:VH:114:ASP:OD1	2.49	0.44
4:VK:318:LEU:O	4:VK:375:VAL:HA	2.17	0.44
4:VK:417:GLU:O	4:VK:420:GLU:HG2	2.17	0.44
3:WB:12:CYS:HB3	39:WB:501:GTP:C5'	2.48	0.44
4:WC:175:PRO:O	4:WC:390:ARG:HD3	2.17	0.44
4:WE:42:ILE:HG21	4:WE:59:GLY:HA2	1.99	0.44
4:WI:21:TRP:HE1	4:WI:65:ALA:HB3	1.83	0.44
4:WI:214:ARG:NH1	4:WI:215:ARG:HG3	2.31	0.44
3:WJ:378:PHE:HA	3:WJ:381:ILE:HG22	1.98	0.44
4:WK:6:SER:HB3	4:WK:65:ALA:HB2	1.99	0.44
4:WK:67:PHE:O	4:WK:93:ILE:N	2.50	0.44
3:WL:7:LEU:HB2	3:WL:135:LEU:HG	1.99	0.44
3:WL:117:LEU:HD11	3:WL:154:LYS:HD2	1.99	0.44
33:X:463:GLU:HA	33:X:466:LYS:NZ	2.31	0.44
34:XC:90:GLU:HB3	34:XC:104:ARG:CD	2.46	0.44
34:XC:113:ARG:HE	34:XC:114:VAL:H	1.66	0.44
34:XD:94:LEU:HD11	34:XD:98:ASN:HA	2.00	0.44
34:XF:133:GLN:OE1	34:XF:133:GLN:N	2.50	0.44
34:XG:1:MET:H3	34:XG:69:LEU:C	2.26	0.44
35:XJ:153:LEU:O	35:XJ:157:GLN:HG2	2.17	0.44
37:YC:18:PHE:O	37:YC:22:GLN:N	2.50	0.44
37:YC:59:ASN:O	37:YC:61:THR:N	2.50	0.44
37:YG:137:VAL:HG13	37:YG:138:VAL:HG13	1.99	0.44
37:YQ:25:PHE:CE1	37:YQ:66:LEU:HD13	2.51	0.44
37:YR:43:ILE:O	37:YR:43:ILE:HG13	2.17	0.44
1:A:200:ARG:O	1:A:204:GLU:N	2.38	0.44
2:A1:230:LYS:HE3	2:A1:230:LYS:HB3	1.78	0.44
2:A2:97:ARG:HD3	10:E2:76:TRP:CH2	2.52	0.44
2:A2:284:LYS:O	2:A2:287:GLU:HG2	2.17	0.44
2:A3:67:LEU:O	2:A3:71:ARG:HG3	2.17	0.44
2:A3:363:LYS:HD2	14:G6:182:GLY:HA3	1.99	0.44
3:AB:51:TYR:CD1	3:AB:61:PRO:HA	2.52	0.44
3:AB:132:GLY:HA3	3:AB:163:ILE:H	1.83	0.44
3:AD:376:GLU:H	3:AD:376:GLU:CD	2.23	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AG:31:GLN:NE2	4:AG:37:PRO:HD3	2.31	0.44
4:AG:204:VAL:HG23	4:AG:302:MET:HG3	1.99	0.44
3:AH:52:ASN:ND2	3:AH:62:ARG:HD3	2.32	0.44
3:AH:106:TYR:HB2	3:AH:401:GLU:OE2	2.18	0.44
4:AK:419:SER:HA	4:AK:422:ARG:NE	2.26	0.44
3:AL:189:VAL:HA	3:AL:192:LEU:HD12	2.00	0.44
3:AL:217:LEU:O	3:AL:219:THR:N	2.47	0.44
3:AL:290:THR:HG21	3:AL:329:GLN:HB3	1.98	0.44
5:B2:78:LEU:HD22	5:B2:179:LYS:HZ1	1.81	0.44
5:B2:90:ASP:CG	5:B2:94:GLN:HE22	2.26	0.44
5:B7:43:ARG:C	7:C2:126:ARG:HH12	2.25	0.44
5:B7:370:LEU:HD11	5:B7:374:GLN:HE21	1.82	0.44
5:B8:305:ARG:O	5:B8:308:MET:HG2	2.16	0.44
5:B9:363:LEU:HG	5:B9:367:PHE:HE2	1.80	0.44
3:BB:20:PHE:CZ	3:BB:24:ILE:HD11	2.51	0.44
3:BB:39:ASP:OD1	3:BB:43:GLN:NE2	2.51	0.44
3:BB:214:THR:HG21	3:BB:273:LEU:HB3	2.00	0.44
3:BD:138:SER:HB3	39:BD:501:GTP:H5'	1.99	0.44
4:BG:182:VAL:HA	4:BG:185:TYR:HD2	1.82	0.44
4:BI:160:ASP:OD1	4:BI:161:TYR:N	2.51	0.44
4:BI:174:ALA:HB3	4:BI:177:VAL:O	2.17	0.44
3:BJ:91:VAL:HG11	3:BJ:116:VAL:HG12	1.99	0.44
4:BK:11:GLN:HB2	4:BK:74:VAL:HG21	1.99	0.44
3:BL:106:TYR:HB2	3:BL:401:GLU:OE2	2.17	0.44
3:BL:189:VAL:HA	3:BL:192:LEU:HD12	1.99	0.44
4:BM:120:ASP:HA	4:BM:123:ARG:NH2	2.33	0.44
6:C:349:PRO:O	6:C:353:ARG:N	2.50	0.44
6:C:392:ILE:HD13	16:I:115:ASP:HB3	1.99	0.44
7:C2:250:ALA:HA	7:C2:310:ARG:HH12	1.82	0.44
7:C3:123:ASP:O	7:C3:126:ARG:HG3	2.17	0.44
7:C3:229:CYS:HA	7:C3:232:ARG:HE	1.82	0.44
7:C3:281:VAL:HB	7:C4:394:LYS:HG3	1.98	0.44
7:C4:201:HIS:O	7:C4:204:LYS:HD3	2.17	0.44
3:CB:46:ARG:HH22	4:CC:73:THR:HA	1.83	0.44
3:CB:52:ASN:CG	3:CB:62:ARG:HD3	2.43	0.44
3:CB:273:LEU:H	3:CB:292:GLN:NE2	2.14	0.44
3:CB:318:ARG:C	3:CB:321:MET:HE1	2.43	0.44
4:CC:386:GLU:HA	4:CC:389:ALA:HB3	1.99	0.44
4:CE:172:TYR:HB2	4:CE:203:MET:HB2	1.99	0.44
3:CF:391:ARG:C	3:CF:392:LYS:HG3	2.42	0.44
4:CG:324:VAL:HG21	3:CH:219:THR:HG22	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CG:424:ASP:O	4:CG:428:LEU:HD23	2.18	0.44
3:CH:245:GLN:HE22	4:CI:15:GLN:NE2	2.16	0.44
4:CI:115:VAL:HA	4:CI:118:VAL:HG12	2.00	0.44
4:CI:115:VAL:HG23	4:CI:153:LEU:CD1	2.48	0.44
4:CK:84:ARG:HG2	4:CK:85:GLN:N	2.32	0.44
3:CL:337:ASN:HB2	3:CL:340:TYR:CD2	2.52	0.44
4:CM:12:ALA:O	39:CM:501:GTP:N1	2.50	0.44
4:CM:68:VAL:HG12	4:CM:93:ILE:HB	1.99	0.44
7:Cc:163:GLU:OE2	7:Cc:311:SER:OG	2.30	0.44
6:D:179:ALA:C	6:D:180:MET:HE2	2.41	0.44
8:D9:137:ARG:HD2	8:D9:447:GLN:HA	1.98	0.44
8:D9:447:GLN:HE22	11:F3:362:ALA:C	2.24	0.44
4:DA:42:ILE:HG21	4:DA:59:GLY:HA2	1.98	0.44
4:DA:87:PHE:HB3	4:DA:92:LEU:HD11	1.99	0.44
4:DA:160:ASP:OD1	4:DA:161:TYR:N	2.51	0.44
4:DA:392:ASP:HB2	4:DA:422:ARG:NH2	2.33	0.44
3:DB:101:TRP:CE3	3:DB:187:LEU:HD13	2.52	0.44
3:DD:91:VAL:HG11	3:DD:116:VAL:HG12	1.98	0.44
3:DD:267:MET:O	3:DD:368:ILE:HD12	2.18	0.44
3:DD:276:ARG:HG2	13:G1:284:GLY:C	2.43	0.44
3:DD:330:MET:HG3	3:DD:349:VAL:HG11	1.98	0.44
3:DF:135:LEU:HD22	3:DF:151:LEU:HD11	1.99	0.44
3:DJ:216:LYS:HB3	3:DJ:276:ARG:CZ	2.47	0.44
4:DK:6:SER:HB3	4:DK:65:ALA:HB2	1.99	0.44
4:DK:312:TYR:HB2	4:DK:343:PHE:HA	1.99	0.44
3:DL:54:ALA:HA	3:EL:283:ALA:HB2	1.99	0.44
3:DL:290:THR:HG21	3:DL:329:GLN:HB3	1.99	0.44
9:E:586:LEU:O	9:E:590:PHE:N	2.41	0.44
10:E1:177:ARG:HG3	10:E1:178:PHE:H	1.83	0.44
10:E2:113:LEU:O	10:E2:114:ARG:HD3	2.17	0.44
10:E2:177:ARG:HG3	10:E2:178:PHE:H	1.82	0.44
4:EA:179:THR:OG1	4:EA:183:GLU:OE2	2.35	0.44
4:EA:345:ASP:N	4:EA:345:ASP:OD1	2.48	0.44
3:EB:8:GLN:NE2	3:EB:17:GLY:HA3	2.32	0.44
3:EB:120:VAL:O	3:EB:124:ALA:N	2.43	0.44
4:EC:142:GLY:HA3	4:EC:183:GLU:OE1	2.18	0.44
4:EC:216:ASN:OD1	4:EC:217:LEU:N	2.51	0.44
4:EC:325:PRO:HA	4:EC:328:VAL:HB	1.99	0.44
3:ED:271:ALA:HB3	3:ED:365:ALA:H	1.83	0.44
4:EE:214:ARG:HA	4:EE:218:ASP:HA	1.99	0.44
4:EE:280:LYS:O	4:EE:284:GLU:HB2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EE:346:TRP:HH2	3:EF:390:ARG:HB3	1.82	0.44
4:EI:40:LYS:HZ3	14:G6:716:LYS:HD2	1.82	0.44
4:EI:272:TYR:HE1	4:EI:374:ALA:HB1	1.83	0.44
4:EK:119:LEU:HB3	4:EK:123:ARG:NH2	2.32	0.44
4:EK:230:LEU:O	4:EK:233:GLN:HG3	2.17	0.44
4:EK:392:ASP:OD1	4:EK:393:HIS:N	2.50	0.44
3:EL:111:GLU:OE1	3:EL:111:GLU:N	2.43	0.44
11:F5:89:ARG:HH22	11:F6:208:HIS:HA	1.83	0.44
11:F5:279:PHE:HA	11:F6:393:GLN:NE2	2.33	0.44
11:F5:312:ALA:HB1	11:F5:316:ARG:HH12	1.82	0.44
11:F6:399:ARG:HH22	11:F6:408:CYS:H	1.64	0.44
3:FB:256:ASN:HB3	3:FB:350:LYS:HG3	1.97	0.44
3:FB:324:LYS:HD3	4:FC:210:TYR:CE1	2.52	0.44
4:FC:201:ALA:H	4:FC:266:HIS:HD2	1.65	0.44
3:FF:162:ARG:HA	3:FF:251:ARG:HH21	1.83	0.44
4:FG:161:TYR:O	4:FG:166:LYS:NZ	2.46	0.44
3:FH:166:THR:OG1	3:FH:198:GLU:O	2.26	0.44
4:FI:34:GLY:CA	4:FI:86:LEU:HD21	2.47	0.44
4:FI:176:GLN:NE2	4:FI:207:GLU:OE2	2.51	0.44
4:FK:70:LEU:HB3	4:FK:97:GLU:O	2.18	0.44
4:FK:139:HIS:CD2	4:FK:170:ALA:HB2	2.52	0.44
3:FL:272:PRO:HD2	3:FL:364:SER:HA	1.99	0.44
11:Fb:194:CYS:HA	11:Fb:472:MET:SD	2.57	0.44
11:Fc:193:GLU:HG2	11:Fc:197:ASN:HD21	1.81	0.44
11:Ff:130:LEU:HD13	11:Ff:133:GLN:NE2	2.33	0.44
11:Fh:367:GLU:HA	11:Fh:370:GLN:CG	2.47	0.44
11:Fh:393:GLN:HE22	11:Fi:253:ASP:CG	2.25	0.44
11:Fi:155:GLU:HA	11:Fi:158:TYR:HD2	1.83	0.44
11:Fi:200:LYS:HA	11:Fi:200:LYS:HD3	1.68	0.44
11:Fj:435:ARG:HG3	11:Fj:436:GLU:N	2.33	0.44
11:Fk:135:GLN:NE2	11:Fk:136:GLU:HG3	2.32	0.44
11:Fm:195:LEU:HD13	11:Fm:215:LEU:HD21	2.00	0.44
12:G:56:SER:O	12:G:60:ASN:ND2	2.50	0.44
12:G:349:ARG:NH2	12:G:353:GLU:OE2	2.50	0.44
13:G2:158:ASP:N	13:G2:158:ASP:OD1	2.48	0.44
13:G3:97:LEU:HD22	13:G3:190:THR:HG23	1.98	0.44
13:G3:172:ILE:HB	13:G3:183:ILE:HD12	1.98	0.44
13:G3:250:ASP:OD1	13:G3:251:ASP:N	2.50	0.44
14:G5:453:VAL:HB	14:G5:466:PHE:HB3	1.98	0.44
14:G6:232:PHE:HB3	14:G6:251:LEU:CD2	2.46	0.44
14:G6:566:PHE:HD1	14:G6:735:TYR:HE1	1.64	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:GA:211:ASP:O	4:GA:214:ARG:NH1	2.50	0.44
4:GA:419:SER:HA	4:GA:422:ARG:NE	2.19	0.44
3:GB:41:ASP:N	3:GB:41:ASP:OD1	2.50	0.44
3:GB:66:VAL:HA	3:GB:91:VAL:O	2.17	0.44
3:GD:175:VAL:HG22	3:GD:177:ASP:H	1.83	0.44
3:GD:189:VAL:HA	3:GD:192:LEU:HD12	1.98	0.44
3:GD:209:ASP:O	3:GD:213:ARG:HG2	2.18	0.44
3:GD:250:LEU:O	3:GD:254:ALA:N	2.37	0.44
3:GD:324:LYS:HD3	4:GE:210:TYR:HE1	1.82	0.44
3:GD:350:LYS:HE3	4:GE:180:ALA:HA	1.98	0.44
4:GE:113:GLU:OE1	4:GE:113:GLU:N	2.47	0.44
4:GE:213:CYS:O	4:GE:218:ASP:N	2.50	0.44
4:GE:271:THR:HB	4:GE:377:MET:HB2	1.98	0.44
4:GE:391:LEU:O	4:GE:394:LYS:HB2	2.18	0.44
3:GF:12:CYS:O	3:GF:16:ILE:HG12	2.18	0.44
3:GF:114:ASP:OD1	3:GF:115:SER:N	2.50	0.44
4:GG:94:THR:O	4:GG:96:LYS:NZ	2.50	0.44
4:GG:145:THR:OG1	39:GG:501:GTP:O1B	2.33	0.44
4:GI:318:LEU:O	4:GI:375:VAL:HA	2.17	0.44
15:H3:303:SER:HA	15:H3:306:ARG:HE	1.83	0.44
4:HA:320:ARG:HG2	4:HA:358:GLN:O	2.17	0.44
4:HC:183:GLU:N	4:HC:184:PRO:HD2	2.32	0.44
3:HD:11:GLN:O	3:HD:14:ASN:HB2	2.17	0.44
3:HD:49:VAL:HG23	3:HD:50:TYR:CD2	2.51	0.44
4:HE:69:ASP:OD1	4:HE:70:LEU:N	2.49	0.44
4:HG:75:VAL:HG23	4:HG:92:LEU:HD12	1.99	0.44
4:HG:244:PHE:HD2	4:HG:358:GLN:HB2	1.82	0.44
4:HI:188:ILE:HD13	4:HI:395:PHE:CD1	2.52	0.44
4:HI:430:LYS:HA	4:HI:433:GLU:OE1	2.16	0.44
4:IA:116:ASP:N	4:IA:116:ASP:OD1	2.46	0.44
4:IA:260:VAL:O	3:IB:397:TRP:HH2	2.00	0.44
4:IA:324:VAL:HG21	3:IB:219:THR:HG22	1.98	0.44
3:IB:249:ASP:O	3:IB:253:LEU:HG	2.17	0.44
4:IC:333:ALA:O	4:IC:337:THR:HG23	2.18	0.44
3:ID:273:LEU:O	3:ID:292:GLN:NE2	2.47	0.44
4:IE:392:ASP:OD1	4:IE:393:HIS:N	2.51	0.44
4:IG:405:VAL:O	4:IG:409:VAL:HG22	2.18	0.44
3:IH:267:MET:HB3	3:IH:299:MET:HE1	1.98	0.44
4:II:399:TYR:OH	4:II:415:GLU:HB2	2.18	0.44
3:IJ:27:GLU:OE1	3:IJ:28:HIS:ND1	2.50	0.44
3:IL:412:GLU:OE1	3:IL:416:ASN:ND2	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:IM:192:HIS:CE1	4:IM:193:THR:HG23	2.52	0.44
18:J:69:ARG:HD2	4:JG:357:TYR:CE1	2.53	0.44
19:J1:177:ASN:HA	19:J1:180:GLU:CB	2.44	0.44
4:JC:9:VAL:HG22	4:JC:146:GLY:HA2	2.00	0.44
4:JC:167:LEU:HB3	4:JC:169:PHE:CZ	2.53	0.44
4:JC:397:LEU:O	4:JC:401:LYS:HG2	2.18	0.44
4:JE:320:ARG:CZ	4:JE:360:PRO:HA	2.47	0.44
4:JG:66:VAL:HG12	4:JG:68:VAL:HG13	2.00	0.44
3:JH:11:GLN:O	3:JH:15:GLN:NE2	2.50	0.44
3:JL:130:LEU:HB2	3:JL:162:ARG:HH11	1.80	0.44
20:K:24:GLU:HB3	20:K:28:HIS:CE1	2.52	0.44
20:K:52:ARG:O	20:K:124:GLY:N	2.49	0.44
21:K2:224:LEU:HA	21:K2:227:LEU:HG	1.97	0.44
21:K2:237:TYR:O	21:K2:240:GLU:HB2	2.17	0.44
21:K3:299:GLU:HA	21:K3:302:ARG:HG2	2.00	0.44
21:K4:196:ASP:HA	21:K4:199:LEU:HD12	1.99	0.44
4:KA:318:LEU:O	4:KA:375:VAL:HA	2.17	0.44
4:KC:90:GLU:OE2	4:LC:280:LYS:HE2	2.18	0.44
4:KC:121:ARG:O	4:KC:124:LYS:HG2	2.17	0.44
3:KD:6:HIS:O	3:KD:64:VAL:N	2.50	0.44
3:KD:12:CYS:O	3:KD:16:ILE:HG12	2.16	0.44
4:KE:216:ASN:ND2	4:KE:275:VAL:HG23	2.32	0.44
4:KE:438:ASP:HA	3:KF:391:ARG:HH12	1.82	0.44
4:KG:47:ASP:HB3	4:KG:49:PHE:CE2	2.52	0.44
4:KG:196:GLU:HG2	4:KG:197:HIS:ND1	2.32	0.44
3:KH:139:LEU:N	3:KH:168:SER:OG	2.50	0.44
3:KH:147:MET:SD	3:KH:148:GLY:N	2.90	0.44
3:KH:224:ASP:O	3:KH:228:LEU:HG	2.17	0.44
3:KJ:55:THR:HG23	3:LJ:283:ALA:HA	2.00	0.44
3:KJ:218:THR:OG1	3:KJ:219:THR:N	2.49	0.44
4:KK:154:MET:HE3	4:KK:194:THR:HG22	2.00	0.44
3:KL:375:GLN:HA	3:KL:378:PHE:CZ	2.52	0.44
22:L2:125:TYR:HH	22:L2:134:HIS:CE1	2.35	0.44
22:L3:133:LYS:HZ1	4:LK:113:GLU:CD	2.24	0.44
22:L3:161:ARG:HA	22:L3:161:ARG:HD2	1.76	0.44
4:LA:138:PHE:HD1	4:LA:169:PHE:HB2	1.83	0.44
4:LA:320:ARG:HD3	4:LA:360:PRO:HG3	2.00	0.44
3:LB:318:ARG:C	3:LB:321:MET:HE1	2.41	0.44
4:LC:69:ASP:OD1	4:LC:70:LEU:N	2.48	0.44
3:LH:26:ASP:OD1	3:LH:27:GLU:N	2.50	0.44
3:LH:258:VAL:HB	4:LI:407:TRP:HZ2	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:LI:50:ASN:OD1	4:LI:51:THR:N	2.51	0.44
3:LJ:9:ALA:O	3:LJ:13:GLY:HA3	2.17	0.44
3:LJ:12:CYS:O	3:LJ:16:ILE:HG12	2.17	0.44
3:LJ:50:TYR:HE2	3:LJ:241:ARG:HH21	1.65	0.44
3:LJ:156:ARG:HD2	3:LJ:156:ARG:HA	1.84	0.44
3:LJ:309:ARG:NH1	3:LJ:342:VAL:HA	2.32	0.44
3:LJ:394:PHE:HA	3:LJ:397:TRP:HZ3	1.82	0.44
4:LK:151:SER:O	4:LK:155:GLU:HG2	2.18	0.44
4:LK:265:ILE:HA	4:LK:267:PHE:CE2	2.52	0.44
3:LL:3:GLU:OE2	3:LL:129:CYS:N	2.50	0.44
3:LL:101:TRP:HB2	3:LL:184:ASN:HD22	1.83	0.44
3:LL:273:LEU:H	3:LL:292:GLN:HE22	1.64	0.44
4:ME:72:PRO:HA	4:ME:75:VAL:HG12	2.00	0.44
4:ME:333:ALA:O	4:ME:337:THR:HG23	2.18	0.44
4:ME:372:GLN:NE2	27:P:284:ILE:HG21	2.32	0.44
3:MH:173:PRO:HD2	3:MH:205:GLU:CD	2.43	0.44
3:MJ:218:THR:OG1	3:MJ:219:THR:N	2.49	0.44
3:ML:206:ALA:O	3:ML:210:ILE:N	2.36	0.44
3:ML:206:ALA:O	3:ML:210:ILE:HG12	2.17	0.44
4:MM:66:VAL:HG12	4:MM:68:VAL:HG13	1.98	0.44
4:MM:182:VAL:O	4:MM:185:TYR:HB2	2.17	0.44
3:NB:375:GLN:HA	3:NB:378:PHE:CE1	2.53	0.44
4:NC:165:SER:C	4:NC:166:LYS:HD2	2.43	0.44
3:ND:66:VAL:HA	3:ND:91:VAL:O	2.17	0.44
4:NE:251:ASP:HB3	4:NE:254:GLU:OE1	2.18	0.44
3:NH:3:GLU:HG2	3:NH:130:LEU:HD23	2.00	0.44
3:NH:325:GLU:O	3:NH:329:GLN:HG2	2.16	0.44
4:NI:265:ILE:HD12	4:NI:432:TYR:CE1	2.52	0.44
4:OA:220:GLU:HG2	4:OA:221:ARG:HG2	1.99	0.44
4:OC:176:GLN:NE2	4:OC:207:GLU:OE2	2.51	0.44
4:OC:420:GLU:HA	4:OC:423:GLU:OE2	2.17	0.44
3:OD:58:LYS:HE2	3:PD:281:TYR:CE1	2.52	0.44
3:OD:173:PRO:O	3:OD:380:ARG:NH2	2.50	0.44
3:OD:247:ASN:CB	3:OD:252:LYS:HG2	2.43	0.44
4:OE:88:HIS:HB3	4:OE:91:GLN:HB2	1.99	0.44
3:OH:60:VAL:HG23	3:OH:86:ARG:HH11	1.82	0.44
4:OI:118:VAL:HA	4:OI:121:ARG:HG2	1.98	0.44
4:OI:188:ILE:HD11	4:OI:395:PHE:CZ	2.53	0.44
4:OK:83:TYR:HB3	4:OK:86:LEU:HD12	1.98	0.44
4:OK:161:TYR:HB3	4:OK:164:LYS:NZ	2.32	0.44
4:OK:319:TYR:N	4:OK:354:GLY:O	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:P:150:GLU:HA	27:P:153:ARG:HE	1.82	0.44
29:P1:250:SER:HB3	3:WD:37:HIS:CE1	2.52	0.44
3:PB:4:ILE:HB	3:PB:50:TYR:CE1	2.52	0.44
3:PB:350:LYS:HE3	4:PC:181:VAL:N	2.32	0.44
4:PE:3:GLU:CD	4:PE:131:GLY:H	2.25	0.44
4:PE:143:GLY:HA3	4:PE:147:SER:H	1.83	0.44
4:PE:167:LEU:HD13	4:PE:200:CYS:HB2	1.99	0.44
4:PE:202:PHE:CD1	4:PE:268:PRO:HD2	2.52	0.44
3:PF:19:LYS:NZ	3:PF:223:GLY:O	2.48	0.44
4:PG:396:ASP:HB3	4:PG:422:ARG:NH2	2.32	0.44
3:PH:12:CYS:SG	3:PH:13:GLY:N	2.89	0.44
3:PH:282:ARG:HE	3:PH:288:GLU:CD	2.24	0.44
4:PI:3:GLU:CD	4:PI:131:GLY:H	2.25	0.44
3:PJ:85:PHE:HB3	3:PJ:90:PHE:CZ	2.52	0.44
3:PL:272:PRO:HA	3:PL:292:GLN:OE1	2.17	0.44
4:PM:319:TYR:HD2	4:PM:323:VAL:HG11	1.82	0.44
30:Q1:1365:ALA:O	30:Q1:1368:GLU:HG3	2.17	0.44
30:Q2:1443:ILE:HD11	30:Q2:1483:ILE:HG23	1.99	0.44
30:Q3:1463:LYS:HE2	30:Q3:1469:LEU:HD22	1.99	0.44
30:Q3:1463:LYS:HD3	30:Q3:1507:TYR:CD1	2.52	0.44
4:QC:345:ASP:OD1	4:QC:345:ASP:N	2.49	0.44
4:QG:30:ILE:HG13	4:QG:53:PHE:HE2	1.81	0.44
4:QG:40:LYS:HD2	4:QG:40:LYS:O	2.17	0.44
4:QG:116:ASP:N	4:QG:116:ASP:OD1	2.50	0.44
3:QH:148:GLY:O	3:QH:152:ILE:HG12	2.18	0.44
3:QH:152:ILE:HD12	3:QH:195:ASN:HB2	1.99	0.44
3:QH:172:SER:OG	3:QH:205:GLU:OE2	2.24	0.44
3:QH:257:MET:O	3:QH:259:PRO:HD3	2.17	0.44
4:QI:252:LEU:HA	4:QI:255:PHE:CD2	2.52	0.44
4:QI:329:ASN:HA	4:QI:332:ILE:HG12	2.00	0.44
3:QJ:150:LEU:O	3:QJ:153:SER:OG	2.29	0.44
4:QK:118:VAL:HA	4:QK:121:ARG:HG2	1.99	0.44
4:QK:315:CYS:O	4:QK:351:PHE:HA	2.17	0.44
4:QK:402:ARG:HB2	4:QK:405:VAL:HG11	2.00	0.44
4:QM:287:SER:OG	4:QM:290:GLU:OE1	2.27	0.44
4:QM:408:TYR:HB3	4:QM:413:MET:HE2	2.00	0.44
31:R2:119:ASN:HB3	31:R2:122:ALA:HB3	2.00	0.44
31:R2:138:ASN:O	31:R2:142:ARG:HG3	2.17	0.44
4:RE:36:MET:HG3	4:RE:41:THR:OG1	2.17	0.44
4:RE:141:PHE:HB2	4:RE:173:PRO:HD3	1.99	0.44
3:RF:148:GLY:O	3:RF:152:ILE:HG12	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RH:32:PRO:O	3:RH:83:GLN:NE2	2.47	0.44
4:RI:47:ASP:HB3	4:RI:49:PHE:CE2	2.52	0.44
4:RI:280:LYS:HD2	4:RI:280:LYS:HA	1.71	0.44
4:RI:320:ARG:N	4:RI:374:ALA:O	2.41	0.44
3:RJ:101:TRP:CE3	3:RJ:187:LEU:HD13	2.52	0.44
3:RJ:137:HIS:O	3:RJ:168:SER:HA	2.17	0.44
3:RL:72:THR:O	3:RL:75:SER:OG	2.30	0.44
4:RM:390:ARG:HH11	4:RM:394:LYS:NZ	2.15	0.44
4:SC:352:LYS:HZ1	3:SD:179:VAL:HG22	1.81	0.44
4:SC:411:GLU:OE2	4:SC:413:MET:HE1	2.17	0.44
3:SD:252:LYS:O	3:SD:256:ASN:ND2	2.50	0.44
4:SE:262:TYR:CE1	3:SF:393:ALA:HA	2.53	0.44
3:SF:324:LYS:HD2	4:SG:221:ARG:HA	1.98	0.44
3:SF:374:ILE:HG22	3:SF:378:PHE:CE2	2.52	0.44
4:SG:336:LYS:HD2	4:SG:351:PHE:CE2	2.53	0.44
3:SH:31:ASP:OD2	3:SH:35:THR:OG1	2.32	0.44
3:SH:144:GLY:N	39:SH:501:GTP:O2B	2.51	0.44
4:SI:420:GLU:HA	4:SI:423:GLU:OE2	2.17	0.44
3:SL:375:GLN:HA	3:SL:378:PHE:CE1	2.52	0.44
4:SM:116:ASP:N	4:SM:116:ASP:OD1	2.48	0.44
3:TD:39:ASP:OD1	3:TD:39:ASP:N	2.50	0.44
3:TD:173:PRO:HD3	3:TD:203:ASP:OD1	2.17	0.44
4:TE:175:PRO:O	4:TE:390:ARG:HD3	2.18	0.44
3:TF:152:ILE:O	3:TF:156:ARG:HG2	2.18	0.44
3:TF:337:ASN:HB2	3:TF:340:TYR:HB2	2.00	0.44
3:TH:4:ILE:HB	3:TH:50:TYR:CE1	2.53	0.44
4:TI:68:VAL:HG12	4:TI:93:ILE:HB	1.99	0.44
4:TI:174:ALA:HB3	4:TI:177:VAL:O	2.17	0.44
4:TI:196:GLU:OE1	4:TI:196:GLU:N	2.43	0.44
3:TJ:134:GLN:OE1	3:TJ:134:GLN:N	2.50	0.44
4:TK:141:PHE:HB2	4:TK:173:PRO:HD3	1.99	0.44
4:TK:216:ASN:ND2	4:TK:275:VAL:O	2.50	0.44
4:TM:272:TYR:CZ	4:TM:274:PRO:HG2	2.52	0.44
4:UC:165:SER:C	4:UC:166:LYS:HD2	2.41	0.44
3:UD:320:ARG:H	3:UD:363:MET:HE1	1.83	0.44
4:UE:35:GLN:HG2	4:UE:59:GLY:O	2.17	0.44
4:UE:329:ASN:HA	4:UE:332:ILE:HG12	1.99	0.44
3:UF:6:HIS:HB3	3:UF:21:TRP:HZ2	1.81	0.44
3:UF:36:TYR:CE2	3:UF:38:GLY:HA2	2.52	0.44
3:UF:376:GLU:H	3:UF:376:GLU:CD	2.25	0.44
4:UG:256:GLN:O	4:UG:260:VAL:HG12	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UG:331:ALA:O	4:UG:334:THR:OG1	2.30	0.44
3:UH:247:ASN:HB3	3:UH:252:LYS:HG2	1.98	0.44
3:UH:322:SER:OG	3:UH:323:MET:SD	2.74	0.44
3:UJ:106:TYR:HB2	3:UJ:401:GLU:OE2	2.18	0.44
4:UK:46:ASP:HA	4:UK:50:ASN:HB3	1.99	0.44
4:UK:287:SER:N	4:UK:290:GLU:OE2	2.50	0.44
3:UL:240:LEU:HD22	3:UL:248:ALA:HB1	2.00	0.44
4:VA:22:GLU:O	4:VA:26:LEU:HD23	2.16	0.44
4:VA:102:ASN:ND2	4:VA:411:GLU:OE2	2.50	0.44
3:VB:318:ARG:C	3:VB:321:MET:HE1	2.42	0.44
4:VG:90:GLU:HG2	4:VG:121:ARG:NH2	2.33	0.44
4:VG:216:ASN:OD1	4:VG:217:LEU:N	2.49	0.44
3:VH:11:GLN:HG3	39:VH:501:GTP:O5'	2.16	0.44
3:VH:32:PRO:O	3:VH:83:GLN:NE2	2.41	0.44
3:VH:106:TYR:HB2	3:VH:401:GLU:OE2	2.17	0.44
3:VJ:292:GLN:HA	3:VJ:295:ASP:OD2	2.18	0.44
4:VK:390:ARG:HA	4:VK:393:HIS:CD2	2.53	0.44
3:VL:149:THR:HG21	3:VL:188:SER:HA	1.98	0.44
33:W:181:ASP:O	33:W:185:MET:HG2	2.17	0.44
33:W:211:ILE:O	33:W:214:LYS:HG2	2.18	0.44
33:W:227:ARG:HA	33:W:230:HIS:CD2	2.52	0.44
33:W:333:GLU:HB3	33:W:334:ARG:NH2	2.32	0.44
4:WA:102:ASN:HB3	4:WA:105:ARG:HB2	1.98	0.44
3:WD:12:CYS:HB3	39:WD:501:GTP:H5'	1.98	0.44
3:WD:113:VAL:HB	3:WD:154:LYS:HE3	1.99	0.44
4:WE:175:PRO:O	4:WE:390:ARG:HD3	2.17	0.44
4:WE:214:ARG:NH1	4:WE:215:ARG:HG3	2.32	0.44
3:WF:7:LEU:HB2	3:WF:135:LEU:HG	1.99	0.44
4:WG:165:SER:C	4:WG:166:LYS:HD2	2.42	0.44
3:WH:410:GLU:HA	3:WH:413:SER:HB3	2.00	0.44
4:WI:216:ASN:ND2	4:WI:275:VAL:O	2.49	0.44
4:WI:388:TRP:HB3	4:WI:425:LEU:HD11	1.99	0.44
4:WK:50:ASN:OD1	4:WK:51:THR:N	2.50	0.44
4:WK:386:GLU:HA	4:WK:389:ALA:HB3	1.99	0.44
34:XC:14:LEU:HB3	34:XC:165:VAL:HG12	2.00	0.44
34:XF:84:LYS:HE3	35:XL:238:CYS:C	2.42	0.44
34:XG:39:ASP:OD1	34:XG:41:ASP:N	2.50	0.44
35:XH:184:PHE:HA	35:XH:187:MET:HG2	1.98	0.44
37:YB:59:ASN:O	37:YB:62:HIS:N	2.37	0.44
37:YH:140:LEU:O	37:YH:144:VAL:HG23	2.18	0.44
37:YI:33:ARG:HA	37:YI:52:TYR:HE1	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:YK:117:TYR:CG	37:YK:118:PRO:HA	2.52	0.44
37:YP:130:ALA:HB3	37:YP:131:ARG:HH11	1.82	0.44
37:YR:90:THR:N	37:YR:93:THR:OG1	2.51	0.44
37:YS:110:LEU:HD23	37:YS:140:LEU:HD22	1.99	0.44
37:YW:15:TYR:O	37:YW:19:GLN:HG2	2.17	0.44
38:a:13:LEU:HA	38:a:16:ALA:HB3	2.00	0.44
1:A:54:GLN:NE2	1:A:55:ARG:HG3	2.32	0.44
1:A:297:GLN:O	1:A:301:LEU:HG	2.17	0.44
2:A2:138:LYS:HZ1	17:I2:63:LEU:N	2.15	0.44
2:A2:290:ALA:O	2:A2:293:GLU:HG3	2.16	0.44
2:A2:338:ILE:O	2:A2:342:GLN:HG3	2.17	0.44
3:AB:389:PHE:O	3:AB:392:LYS:NZ	2.38	0.44
3:AB:415:MET:O	3:AB:419:VAL:HG23	2.18	0.44
4:AC:252:LEU:HD12	4:AC:253:THR:N	2.32	0.44
3:AD:186:THR:HB	3:AD:385:PHE:CZ	2.53	0.44
3:AD:314:ALA:HB3	3:AD:368:ILE:HG23	2.00	0.44
3:AH:218:THR:OG1	3:AH:219:THR:N	2.49	0.44
4:AI:311:LYS:NZ	4:AI:343:PHE:O	2.47	0.44
3:AL:39:ASP:OD1	3:AL:43:GLN:NE2	2.51	0.44
3:AL:152:ILE:HD12	3:AL:195:ASN:HB2	1.99	0.44
4:AM:145:THR:HG23	39:AM:501:GTP:O3B	2.17	0.44
1:B:394:ALA:HB1	1:B:398:ARG:HH21	1.82	0.44
5:B1:301:GLU:O	5:B1:305:ARG:NE	2.50	0.44
5:B1:333:GLN:OE1	5:B1:333:GLN:N	2.40	0.44
5:B2:164:LEU:HA	5:B2:167:GLU:CD	2.43	0.44
5:B7:305:ARG:O	5:B7:308:MET:HG3	2.18	0.44
5:B8:141:VAL:O	5:B8:145:GLU:HG2	2.17	0.44
5:B8:172:LEU:HD23	5:B8:172:LEU:HA	1.83	0.44
3:BB:47:ILE:HG12	3:BB:59:TYR:CD2	2.52	0.44
4:BC:89:PRO:HB2	4:BC:90:GLU:OE1	2.17	0.44
3:BD:41:ASP:OD1	3:BD:41:ASP:N	2.48	0.44
4:BE:163:LYS:HA	4:BE:163:LYS:HD3	1.72	0.44
4:BE:418:PHE:O	4:BE:422:ARG:NH2	2.50	0.44
3:BH:299:MET:SD	3:BH:300:MET:N	2.90	0.44
4:BI:265:ILE:HA	4:BI:267:PHE:CE2	2.52	0.44
3:BJ:114:ASP:OD1	3:BJ:115:SER:N	2.51	0.44
3:BJ:117:LEU:HB3	3:BJ:121:ARG:NH2	2.33	0.44
3:BJ:163:ILE:HG12	3:BJ:251:ARG:NH1	2.32	0.44
3:BJ:269:GLY:O	3:BJ:367:PHE:N	2.34	0.44
4:BK:47:ASP:HB3	4:BK:49:PHE:CE2	2.53	0.44
4:BK:272:TYR:HE1	4:BK:374:ALA:HB1	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BK:397:LEU:O	4:BK:401:LYS:HE2	2.17	0.44
4:BM:81:GLY:O	4:BM:84:ARG:NH1	2.50	0.44
6:C:84:LYS:HG2	6:C:85:VAL:N	2.31	0.44
6:C:231:ALA:O	6:C:235:ARG:HG3	2.18	0.44
6:C:262:ILE:HG12	6:C:389:PHE:CE1	2.52	0.44
6:C:381:ASP:O	6:C:385:GLU:N	2.43	0.44
6:C:391:LYS:HG3	6:C:392:ILE:HB	2.00	0.44
7:C1:97:ASP:HA	7:C1:100:TYR:CD2	2.52	0.44
7:C2:277:THR:H	7:C3:395:VAL:HG21	1.83	0.44
7:C2:295:SER:CB	7:C3:413:ARG:H	2.30	0.44
7:C4:156:TRP:HA	7:C4:159:GLU:OE1	2.17	0.44
7:C8:416:ALA:HA	7:C8:419:ARG:NH2	2.33	0.44
3:CB:100:ASN:ND2	3:CB:398:TYR:HE1	2.16	0.44
3:CB:209:ASP:O	3:CB:213:ARG:HG2	2.16	0.44
4:CC:329:ASN:OD1	4:CC:330:ALA:N	2.50	0.44
3:CF:318:ARG:HG3	3:CF:354:CYS:SG	2.57	0.44
3:CH:156:ARG:CZ	3:CH:164:MET:HE3	2.47	0.44
4:CI:125:LEU:HD13	4:CI:128:LEU:HD21	1.99	0.44
4:CK:42:ILE:HG12	4:CK:55:GLU:OE2	2.16	0.44
3:CL:36:TYR:HE2	3:CL:44:LEU:HD21	1.82	0.44
3:CL:113:VAL:HA	3:CL:116:VAL:HG22	1.99	0.44
4:CM:398:MET:O	4:CM:402:ARG:N	2.50	0.44
7:Cc:231:GLU:OE1	7:Cc:232:ARG:HD2	2.17	0.44
6:D:349:PRO:O	6:D:353:ARG:N	2.50	0.44
6:D:392:ILE:HG23	6:D:393:LEU:N	2.33	0.44
8:D3:195:GLY:O	8:D3:198:VAL:HG22	2.17	0.44
8:D5:320:TYR:HD1	8:D5:323:ARG:HH22	1.66	0.44
8:D8:113:TRP:HA	8:D8:116:GLU:OE2	2.17	0.44
8:D8:129:ASP:O	8:D8:132:MET:HG2	2.18	0.44
4:DA:102:ASN:HB3	4:DA:105:ARG:HB2	1.99	0.44
4:DA:196:GLU:OE1	4:DA:196:GLU:N	2.46	0.44
4:DA:424:ASP:O	4:DA:428:LEU:HG	2.18	0.44
3:DB:12:CYS:HB3	39:DB:501:GTP:H5'	2.00	0.44
3:DB:315:ALA:HA	3:DB:367:PHE:HA	1.99	0.44
3:DD:282:ARG:NH2	3:DD:292:GLN:OE1	2.32	0.44
4:DE:224:TYR:CE1	39:DE:501:GTP:C5	3.03	0.44
4:DE:331:ALA:O	4:DE:335:ILE:HG12	2.17	0.44
4:DE:348:PRO:HG2	3:DF:384:GLN:OE1	2.18	0.44
3:DF:73:MET:HE1	14:G5:410:LYS:NZ	2.31	0.44
4:DG:188:ILE:HG22	4:DG:421:ALA:HB1	1.98	0.44
4:DI:16:ILE:HG13	4:DI:17:GLY:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DI:109:THR:O	4:DI:112:LYS:NZ	2.50	0.44
4:DI:320:ARG:HD3	4:DI:360:PRO:HG3	1.99	0.44
3:DJ:262:ARG:CD	3:DJ:421:GLU:HG3	2.47	0.44
3:DJ:407:GLU:OE1	3:DJ:407:GLU:N	2.48	0.44
4:DK:274:PRO:HG3	4:DK:374:ALA:HA	2.00	0.44
4:DK:414:GLU:HG2	4:DK:417:GLU:OE1	2.18	0.44
3:DL:132:GLY:HA3	3:DL:163:ILE:HB	1.99	0.44
3:DL:216:LYS:HB3	3:DL:276:ARG:CZ	2.47	0.44
10:E1:183:PHE:O	10:E1:185:GLN:NE2	2.48	0.44
4:EA:91:GLN:HB3	4:EA:121:ARG:HH21	1.82	0.44
3:EB:12:CYS:HA	3:EB:15:GLN:OE1	2.18	0.44
3:EB:269:GLY:HA3	3:EB:367:PHE:HB3	1.99	0.44
4:EC:332:ILE:O	4:EC:336:LYS:HG3	2.17	0.44
3:ED:385:PHE:HZ	3:ED:408:PHE:HB3	1.82	0.44
3:EF:73:MET:HA	3:EF:76:VAL:HB	1.98	0.44
3:EH:12:CYS:O	3:EH:16:ILE:HG12	2.18	0.44
3:EH:309:ARG:HE	3:EH:426:GLN:HE21	1.65	0.44
4:EI:279:GLU:HA	4:EI:282:TYR:HD2	1.83	0.44
3:EJ:156:ARG:NH1	3:EJ:195:ASN:HA	2.32	0.44
3:EJ:207:LEU:HB3	3:EJ:225:LEU:HD22	1.98	0.44
3:EL:309:ARG:HH22	3:EL:344:TRP:HZ3	1.66	0.44
3:EL:379:LYS:O	3:EL:382:SER:OG	2.25	0.44
11:F2:101:LEU:HD12	11:Fk:440:THR:HG21	2.00	0.44
11:F2:297:ALA:O	11:F2:300:SER:OG	2.32	0.44
11:F5:325:PHE:O	11:F5:328:LEU:HG	2.17	0.44
11:F5:333:TRP:NE1	11:F9:352:ASP:HB3	2.32	0.44
11:F7:100:ASP:HA	11:F7:103:ILE:HD12	2.00	0.44
11:F8:319:GLU:HB2	11:F8:323:HIS:HE1	1.81	0.44
11:F9:419:GLU:O	11:F9:423:ILE:HG12	2.17	0.44
4:FC:2:ARG:HA	4:FC:133:GLN:HE22	1.82	0.44
4:FC:115:VAL:HG21	4:FC:156:ARG:HD3	2.00	0.44
3:FD:189:VAL:HA	3:FD:192:LEU:HB2	2.00	0.44
4:FE:168:GLU:HB2	4:FE:201:ALA:HA	1.99	0.44
4:FE:260:VAL:O	3:FF:397:TRP:HH2	2.00	0.44
3:FH:156:ARG:NE	3:FH:164:MET:HE3	2.31	0.44
3:FH:250:LEU:HD13	3:FH:253:LEU:HD12	1.99	0.44
3:FH:267:MET:O	3:FH:369:GLY:N	2.45	0.44
4:FI:5:ILE:HB	4:FI:135:PHE:HD1	1.83	0.44
4:FI:47:ASP:HB3	4:FI:49:PHE:CE2	2.52	0.44
4:FI:438:ASP:OD1	4:FI:438:ASP:N	2.51	0.44
3:FJ:52:ASN:CG	3:FJ:62:ARG:HD3	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FK:35:GLN:HG2	4:FK:59:GLY:O	2.18	0.44
4:FK:318:LEU:O	4:FK:375:VAL:HA	2.16	0.44
3:FL:12:CYS:HA	39:FL:501:GTP:N3	2.32	0.44
3:FL:32:PRO:C	3:FL:83:GLN:HE21	2.25	0.44
3:FL:139:LEU:HD21	3:FL:170:VAL:HG22	2.00	0.44
11:Fa:252:ARG:HA	11:Fa:252:ARG:NH1	2.32	0.44
11:Fa:353:VAL:HG12	11:Fa:458:LYS:HE3	1.99	0.44
11:Fe:198:ARG:O	11:Fe:201:ARG:HG2	2.18	0.44
11:Fe:468:LYS:HB3	11:Fe:472:MET:HE3	1.98	0.44
11:Fg:375:ILE:HD11	11:Fg:441:LEU:HD22	1.98	0.44
11:Fk:307:ALA:O	11:Fk:311:ARG:HG3	2.17	0.44
12:G:180:ARG:NH2	4:GK:279:GLU:HB3	2.32	0.44
13:G1:13:PRO:HA	3:LD:227:HIS:ND1	2.33	0.44
13:G1:245:PHE:O	13:G1:263:ILE:HA	2.16	0.44
13:G1:319:GLU:N	13:G1:319:GLU:OE1	2.50	0.44
13:G2:193:PHE:O	13:G2:197:GLN:HG2	2.17	0.44
14:G4:672:ASP:O	14:G4:676:CYS:N	2.43	0.44
14:G4:718:GLU:O	14:G4:720:VAL:HG23	2.18	0.44
14:G5:26:TRP:CE2	14:G5:35:LEU:HD12	2.52	0.44
14:G6:4:PRO:HB2	14:G6:5:PHE:H	1.60	0.44
14:G6:79:LEU:O	14:G6:105:TYR:HA	2.18	0.44
14:G6:304:LEU:O	14:G6:305:ASN:ND2	2.50	0.44
14:G6:495:LYS:HE2	14:G6:499:SER:HB2	1.99	0.44
14:G6:677:LEU:HA	14:G6:680:ARG:HB3	1.99	0.44
4:GC:89:PRO:HB2	4:GC:90:GLU:OE1	2.18	0.44
3:GD:310:TYR:HB2	3:GD:341:PHE:CD1	2.53	0.44
3:GD:324:LYS:HD3	4:GE:210:TYR:CE1	2.53	0.44
4:GG:120:ASP:HA	4:GG:123:ARG:NH1	2.32	0.44
4:GG:139:HIS:CD2	4:GG:170:ALA:HB2	2.52	0.44
4:GG:260:VAL:O	3:GH:397:TRP:HH2	2.01	0.44
4:GG:274:PRO:HG3	4:GG:374:ALA:HA	1.99	0.44
3:GH:52:ASN:CG	3:GH:62:ARG:HD3	2.43	0.44
3:GH:249:ASP:O	3:GH:253:LEU:HG	2.18	0.44
4:GI:9:VAL:HA	4:GI:68:VAL:HG13	1.97	0.44
3:GJ:257:MET:O	3:GJ:259:PRO:HD3	2.18	0.44
15:H2:281:LEU:HD23	15:H2:282:ILE:O	2.18	0.44
15:H5:213:ILE:O	15:H5:213:ILE:HG13	2.18	0.44
3:HB:309:ARG:N	3:HB:372:THR:OG1	2.26	0.44
3:HB:398:TYR:HB3	3:HB:403:MET:HB2	1.99	0.44
4:HC:79:ARG:NH2	4:HC:89:PRO:O	2.39	0.44
4:HC:102:ASN:ND2	4:HC:105:ARG:HG3	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HE:163:LYS:HA	4:HE:163:LYS:HD3	1.77	0.44
4:HE:255:PHE:O	4:HE:259:LEU:HB2	2.16	0.44
4:HE:331:ALA:O	4:HE:335:ILE:HG12	2.18	0.44
3:HF:332:ASN:O	3:HF:336:LYS:N	2.48	0.44
4:HG:102:ASN:HB3	4:HG:105:ARG:HB2	1.99	0.44
3:HH:271:ALA:HB3	3:HH:365:ALA:H	1.82	0.44
4:HI:141:PHE:HB2	4:HI:173:PRO:HD3	2.00	0.44
4:HK:1:MET:HE3	4:HK:50:ASN:ND2	2.32	0.44
3:HL:114:ASP:OD1	3:HL:115:SER:N	2.50	0.44
3:HL:286:VAL:HG21	3:HL:325:GLU:HG3	1.98	0.44
17:I3:43:ASN:C	17:I3:47:LYS:HZ3	2.25	0.44
3:IB:211:CYS:O	3:IB:216:LYS:N	2.45	0.44
3:IB:325:GLU:HA	3:IB:328:GLU:HG3	1.99	0.44
3:IB:378:PHE:CE1	3:IB:419:VAL:HG22	2.53	0.44
4:IC:46:ASP:HA	4:IC:50:ASN:HB3	1.98	0.44
4:IC:405:VAL:O	4:IC:409:VAL:HG22	2.16	0.44
3:ID:318:ARG:HD3	3:ID:358:PRO:HG3	1.99	0.44
3:IF:350:LYS:HE3	4:IG:181:VAL:N	2.32	0.44
3:IH:8:GLN:N	3:IH:8:GLN:OE1	2.50	0.44
3:IH:293:MET:HE2	3:IH:367:PHE:CB	2.48	0.44
3:IJ:25:SER:O	3:IJ:29:GLY:N	2.51	0.44
4:IK:16:ILE:HG13	4:IK:17:GLY:N	2.33	0.44
3:IL:87:PRO:HA	3:IL:90:PHE:CD2	2.52	0.44
3:IL:145:SER:O	3:IL:149:THR:OG1	2.34	0.44
4:IM:101:ASN:HB3	4:IM:182:VAL:HG11	2.00	0.44
4:IM:200:CYS:HA	4:IM:266:HIS:HB2	1.99	0.44
4:IM:419:SER:HA	4:IM:422:ARG:HH21	1.83	0.44
19:J1:166:ARG:O	19:J1:177:ASN:HB2	2.18	0.44
19:J3:149:TRP:O	19:J3:153:ILE:HD12	2.17	0.44
4:JC:102:ASN:HD22	4:JC:105:ARG:HG3	1.82	0.44
4:JC:141:PHE:HB2	4:JC:173:PRO:HD3	1.99	0.44
4:JC:316:CYS:HB3	4:JC:378:LEU:HB2	1.99	0.44
4:JC:399:TYR:OH	4:JC:415:GLU:HB2	2.18	0.44
3:JD:247:ASN:HB3	3:JD:252:LYS:HD2	1.98	0.44
4:JE:50:ASN:OD1	4:JE:51:THR:N	2.50	0.44
4:JE:122:ILE:HG21	4:JE:157:LEU:HD11	1.99	0.44
3:JF:4:ILE:HB	3:JF:50:TYR:CE1	2.53	0.44
3:JF:77:ARG:HD3	3:JF:90:PHE:CE2	2.53	0.44
3:JF:311:LEU:HD11	3:JF:372:THR:HG23	1.98	0.44
3:JF:420:SER:O	3:JF:424:GLN:N	2.49	0.44
4:JG:141:PHE:HB2	4:JG:173:PRO:HD3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:JI:295:CYS:HB2	4:JI:377:MET:HG2	1.99	0.44
3:JJ:178:THR:HB	3:JJ:181:GLU:HB2	1.99	0.44
3:JJ:284:LEU:HD12	3:JJ:288:GLU:OE2	2.17	0.44
3:JJ:330:MET:HA	3:JJ:333:VAL:HG12	1.99	0.44
4:JK:206:ASN:HA	4:JK:209:ILE:HD12	1.99	0.44
21:K2:167:GLU:O	21:K2:170:LYS:HB2	2.17	0.44
21:K2:345:GLU:HA	21:K2:348:GLU:HG2	1.99	0.44
21:K3:411:GLU:OE1	21:K4:118:ARG:HB3	2.17	0.44
21:K4:301:LYS:O	21:K4:305:MET:HG2	2.18	0.44
4:KA:9:VAL:HA	4:KA:68:VAL:HG23	2.00	0.44
4:KA:19:ALA:HA	4:KA:22:GLU:OE1	2.16	0.44
3:KB:31:ASP:OD2	3:KB:35:THR:OG1	2.29	0.44
3:KB:117:LEU:HB3	3:KB:121:ARG:NH2	2.32	0.44
3:KB:226:ASN:HA	3:KB:229:VAL:HG22	2.00	0.44
3:KD:375:GLN:HA	3:KD:378:PHE:CZ	2.52	0.44
4:KE:54:SER:N	4:KE:62:VAL:O	2.50	0.44
4:KE:252:LEU:HA	4:KE:255:PHE:CD2	2.51	0.44
3:KH:21:TRP:CZ2	3:KH:63:ALA:HB2	2.53	0.44
3:KH:249:ASP:O	3:KH:253:LEU:HG	2.18	0.44
3:KH:386:THR:O	3:KH:390:ARG:N	2.51	0.44
4:KI:16:ILE:HG22	4:KI:228:ASN:OD1	2.18	0.44
3:KJ:137:HIS:O	3:KJ:168:SER:HA	2.18	0.44
4:KK:196:GLU:HG2	4:KK:197:HIS:ND1	2.32	0.44
4:KK:254:GLU:N	4:KK:254:GLU:OE1	2.48	0.44
3:KL:51:TYR:CD1	3:KL:61:PRO:HA	2.52	0.44
3:KL:173:PRO:O	3:KL:380:ARG:NH2	2.50	0.44
22:L3:62:PHE:CD2	22:L3:63:LEU:HG	2.47	0.44
4:LA:255:PHE:HZ	4:LA:318:LEU:HD11	1.82	0.44
3:LB:130:LEU:HB2	3:LB:162:ARG:HH11	1.81	0.44
3:LB:150:LEU:C	3:LB:154:LYS:HZ2	2.25	0.44
3:LB:269:GLY:N	3:LB:367:PHE:O	2.51	0.44
4:LC:75:VAL:O	4:LC:79:ARG:HG2	2.17	0.44
4:LC:79:ARG:NE	4:LC:79:ARG:HA	2.32	0.44
4:LC:163:LYS:HA	4:LC:163:LYS:HD3	1.66	0.44
3:LD:165:ASN:OD1	3:LD:166:THR:N	2.50	0.44
3:LD:341:PHE:HD1	3:LD:348:ASN:HD21	1.65	0.44
4:LE:182:VAL:HG23	4:LE:185:TYR:HD2	1.81	0.44
3:LF:101:TRP:CE3	3:LF:187:LEU:HD13	2.52	0.44
3:LF:252:LYS:HG2	4:LG:100:ALA:HA	1.99	0.44
4:LG:307:PRO:HB2	4:LG:312:TYR:OH	2.18	0.44
4:LG:368:LEU:HD23	4:LG:368:LEU:H	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LH:318:ARG:C	3:LH:321:MET:HE1	2.42	0.44
3:LH:404:ASP:OD1	3:LH:404:ASP:N	2.49	0.44
4:LI:202:PHE:HE1	4:LI:268:PRO:HD2	1.82	0.44
4:LK:90:GLU:HG2	4:LK:121:ARG:NH2	2.33	0.44
4:LK:160:ASP:OD1	4:LK:161:TYR:N	2.50	0.44
4:LK:192:HIS:CE1	4:LK:193:THR:HG23	2.53	0.44
3:MD:134:GLN:HA	3:MD:165:ASN:HB3	2.00	0.44
3:MD:377:LEU:O	3:MD:381:ILE:HG12	2.18	0.44
4:ME:295:CYS:HB2	4:ME:377:MET:HE3	1.99	0.44
3:MF:50:TYR:HE2	3:MF:241:ARG:HH21	1.66	0.44
3:MF:361:LEU:HA	27:P:242:GLU:OE2	2.16	0.44
4:MG:139:HIS:O	4:MG:170:ALA:HA	2.17	0.44
4:MG:211:ASP:HA	4:MG:214:ARG:CZ	2.47	0.44
3:MH:30:ILE:HG13	3:MH:36:TYR:CD1	2.51	0.44
3:MH:305:PRO:HB2	3:MH:310:TYR:CE1	2.51	0.44
4:MI:172:TYR:HD1	4:MI:203:MET:HG2	1.81	0.44
4:MK:387:ALA:O	4:MK:391:LEU:HG	2.18	0.44
4:MM:186:ASN:OD1	4:MM:187:SER:N	2.51	0.44
4:MM:188:ILE:HD11	4:MM:425:LEU:HB2	1.99	0.44
4:MM:214:ARG:HH12	4:MM:215:ARG:HG3	1.81	0.44
4:MM:271:THR:HB	4:MM:377:MET:HE3	1.99	0.44
4:NA:68:VAL:HA	4:NA:93:ILE:HB	2.00	0.44
4:NA:186:ASN:HA	4:NA:189:LEU:HD12	2.00	0.44
4:NC:36:MET:HG3	4:NC:41:THR:OG1	2.17	0.44
4:NC:104:ALA:HA	4:NC:107:HIS:HB3	2.00	0.44
4:NE:36:MET:HG3	4:NE:41:THR:OG1	2.17	0.44
3:NF:9:ALA:HB3	3:NF:137:HIS:HB3	1.98	0.44
3:NF:16:ILE:HD13	3:NF:226:ASN:ND2	2.30	0.44
4:NG:222:PRO:HB3	4:NG:226:ASN:HD22	1.81	0.44
4:NG:333:ALA:HA	4:NG:336:LYS:HD2	1.99	0.44
3:NH:258:VAL:HG13	3:NH:263:LEU:HB2	1.98	0.44
4:NI:406:HIS:NE2	4:NI:407:TRP:NE1	2.66	0.44
4:NK:208:ALA:N	4:NK:304:LYS:HZ1	2.15	0.44
4:NK:322:ASP:OD1	4:NK:322:ASP:N	2.44	0.44
3:NL:52:ASN:ND2	3:NL:62:ARG:HD3	2.32	0.44
28:O3:75:PRO:HA	28:O3:95:TRP:CZ2	2.53	0.44
28:O3:110:ARG:HD2	28:O3:111:PRO:O	2.17	0.44
4:OA:390:ARG:HA	4:OA:393:HIS:CD2	2.53	0.44
3:OB:41:ASP:OD1	3:OB:41:ASP:N	2.50	0.44
4:OC:235:VAL:HA	4:OC:238:ILE:HG12	1.99	0.44
3:OD:52:ASN:OD1	3:OD:62:ARG:NH1	2.49	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:OF:151:LEU:HA	3:OF:154:LYS:HE2	1.99	0.44
4:OG:99:ALA:HB3	4:OG:144:GLY:O	2.18	0.44
3:OH:134:GLN:N	3:OH:134:GLN:OE1	2.50	0.44
4:OI:50:ASN:OD1	4:OI:51:THR:N	2.51	0.44
3:OJ:269:GLY:N	3:OJ:367:PHE:O	2.50	0.44
4:OK:386:GLU:O	4:OK:390:ARG:N	2.46	0.44
29:P3:272:LEU:HD11	29:P3:286:LYS:HG2	1.99	0.44
4:PA:185:TYR:O	4:PA:189:LEU:HG	2.17	0.44
3:PB:30:ILE:HG13	3:PB:36:TYR:HD1	1.82	0.44
4:PC:107:HIS:CD2	4:PC:152:LEU:HB2	2.52	0.44
4:PC:135:PHE:CE2	4:PC:164:LYS:HD2	2.52	0.44
4:PC:182:VAL:HA	4:PC:185:TYR:HD2	1.81	0.44
4:PC:295:CYS:HB2	4:PC:377:MET:HG2	2.00	0.44
4:PC:384:ILE:HB	4:PC:388:TRP:HZ3	1.82	0.44
4:PE:204:VAL:HG23	4:PE:302:MET:HG2	1.99	0.44
3:PF:271:ALA:HB2	3:PF:365:ALA:HB3	1.99	0.44
4:PI:235:VAL:HA	4:PI:238:ILE:HG12	2.00	0.44
4:PI:346:TRP:HE1	4:PI:438:ASP:HA	1.83	0.44
4:PI:408:TYR:HD2	4:PI:418:PHE:HZ	1.63	0.44
3:PL:380:ARG:O	3:PL:384:GLN:HG2	2.17	0.44
30:Q1:1366:LEU:HA	30:Q1:1369:LYS:HB2	2.00	0.44
4:QC:28:HIS:HB2	4:QC:30:ILE:HG12	2.00	0.44
4:QC:258:ASN:HA	3:QD:394:PHE:CE2	2.52	0.44
4:QE:321:GLY:HA3	4:QE:372:GLN:O	2.18	0.44
3:QF:166:THR:OG1	3:QF:198:GLU:O	2.27	0.44
3:QF:234:SER:O	3:QF:238:THR:HG23	2.18	0.44
4:QG:137:ILE:HB	4:QG:168:GLU:HA	1.99	0.44
4:QG:208:ALA:H	4:QG:304:LYS:NZ	2.16	0.44
4:QI:30:ILE:HD13	4:QI:36:MET:SD	2.58	0.44
4:QK:79:ARG:O	4:QK:84:ARG:HD2	2.17	0.44
4:QM:8:HIS:HE1	4:QM:21:TRP:HH2	1.64	0.44
4:QM:141:PHE:HB2	4:QM:173:PRO:HD3	2.00	0.44
3:RB:39:ASP:N	3:RB:39:ASP:OD1	2.49	0.44
4:RE:49:PHE:CE1	4:RE:55:GLU:HB3	2.52	0.44
4:RE:203:MET:O	4:RE:302:MET:HE1	2.17	0.44
3:RF:267:MET:O	3:RF:368:ILE:HD12	2.17	0.44
4:RG:9:VAL:HA	4:RG:68:VAL:HG23	1.99	0.44
4:RG:15:GLN:HG2	4:RG:16:ILE:N	2.31	0.44
3:RH:331:LEU:HD21	4:RI:177:VAL:HG22	1.98	0.44
4:RI:75:VAL:HG22	4:RI:79:ARG:HH21	1.82	0.44
4:RI:325:PRO:HB2	3:RJ:208:TYR:OH	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RJ:36:TYR:CZ	3:RJ:38:GLY:HA2	2.52	0.44
3:RJ:218:THR:OG1	3:RJ:219:THR:N	2.50	0.44
3:RJ:239:CYS:SG	3:RJ:316:VAL:HG11	2.57	0.44
3:RJ:318:ARG:HD3	3:RJ:358:PRO:HG3	1.98	0.44
3:RL:81:PHE:O	3:RL:84:ILE:HG22	2.17	0.44
4:RM:104:ALA:HA	4:RM:107:HIS:HB3	1.98	0.44
4:RM:174:ALA:HB3	4:RM:177:VAL:O	2.18	0.44
3:SB:267:MET:HG3	3:SB:369:GLY:O	2.17	0.44
4:SC:139:HIS:CD2	4:SC:170:ALA:HB2	2.52	0.44
3:SD:87:PRO:HA	3:SD:90:PHE:CD2	2.53	0.44
4:SE:10:GLY:O	4:SE:14:VAL:HG13	2.17	0.44
4:SE:317:MET:HE1	4:SE:351:PHE:HB3	2.00	0.44
4:SG:235:VAL:HA	4:SG:238:ILE:HG12	1.98	0.44
3:SH:58:LYS:HZ2	3:SH:84:ILE:HD12	1.82	0.44
4:SI:76:ASP:OD1	4:SI:79:ARG:NH1	2.50	0.44
4:SI:101:ASN:HA	4:SI:144:GLY:CA	2.41	0.44
4:SI:167:LEU:HB3	4:SI:169:PHE:CE1	2.53	0.44
4:SI:264:ARG:O	4:SI:266:HIS:ND1	2.48	0.44
4:SK:319:TYR:N	4:SK:354:GLY:O	2.50	0.44
3:SL:61:PRO:HD3	3:SL:84:ILE:HG13	2.00	0.44
4:TC:345:ASP:N	4:TC:345:ASP:OD1	2.49	0.44
4:TE:176:GLN:NE2	4:TE:207:GLU:OE2	2.50	0.44
3:TF:2:ARG:HA	3:TF:129:CYS:O	2.17	0.44
3:TF:188:SER:O	3:TF:192:LEU:HG	2.18	0.44
4:TG:170:ALA:HB3	4:TG:203:MET:HE1	2.00	0.44
3:TH:40:SER:HB3	3:TH:42:LEU:HD23	1.98	0.44
4:TI:272:TYR:CZ	4:TI:274:PRO:HG2	2.52	0.44
3:TJ:255:VAL:HA	4:TK:407:TRP:CE2	2.52	0.44
4:TK:139:HIS:O	4:TK:170:ALA:HA	2.17	0.44
4:TK:230:LEU:O	4:TK:234:ILE:HG12	2.18	0.44
3:TL:28:HIS:HD2	3:TL:43:GLN:HB2	1.83	0.44
3:TL:39:ASP:OD1	3:TL:43:GLN:NE2	2.50	0.44
3:TL:165:ASN:HA	3:TL:198:GLU:HB3	1.99	0.44
3:TL:324:LYS:HE3	4:TM:210:TYR:HE2	1.82	0.44
4:TM:45:GLY:HA2	4:TM:49:PHE:HE1	1.81	0.44
4:TM:172:TYR:CE2	4:TM:387:ALA:HB1	2.53	0.44
3:TN:42:LEU:HD11	3:TN:356:ILE:HG21	1.99	0.44
3:TN:190:HIS:ND1	3:TN:411:ALA:HA	2.32	0.44
3:TN:206:ALA:HB1	3:TN:300:MET:HA	1.99	0.44
4:UA:103:TYR:HB2	4:UA:186:ASN:HB2	1.98	0.44
4:UA:196:GLU:HG2	4:UA:197:HIS:ND1	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UB:12:CYS:O	3:UB:16:ILE:HG12	2.17	0.44
3:UB:130:LEU:HB2	3:UB:162:ARG:HH11	1.83	0.44
4:UC:288:VAL:O	4:UC:292:THR:OG1	2.30	0.44
3:UD:12:CYS:HA	39:UD:501:GTP:HN22	1.83	0.44
3:UD:117:LEU:HA	3:UD:120:VAL:HG12	1.99	0.44
3:UD:118:ASP:O	3:UD:122:LYS:HG3	2.17	0.44
3:UD:394:PHE:HA	3:UD:397:TRP:HZ3	1.83	0.44
4:UE:206:ASN:HA	4:UE:209:ILE:HD12	1.99	0.44
3:UF:46:ARG:NH1	4:UG:73:THR:HG23	2.33	0.44
4:UG:161:TYR:HB3	4:UG:164:LYS:HZ3	1.83	0.44
4:UG:174:ALA:HB3	4:UG:177:VAL:O	2.16	0.44
3:UH:2:ARG:HA	3:UH:129:CYS:O	2.17	0.44
3:UH:12:CYS:HB3	39:UH:501:GTP:O4’	2.17	0.44
4:UI:98:ASP:O	4:UI:105:ARG:NH2	2.28	0.44
4:UI:122:ILE:O	4:UI:126:ALA:N	2.45	0.44
4:UI:319:TYR:N	4:UI:354:GLY:O	2.50	0.44
3:UJ:122:LYS:HG2	3:VJ:291:GLN:NE2	2.32	0.44
3:UJ:137:HIS:O	3:UJ:168:SER:HA	2.18	0.44
3:UJ:148:GLY:O	3:UJ:152:ILE:HG12	2.17	0.44
3:UJ:240:LEU:HD13	3:UJ:248:ALA:HB1	1.99	0.44
3:UJ:305:PRO:HA	3:UJ:373:ALA:HB2	2.00	0.44
3:UJ:410:GLU:HA	3:UJ:413:SER:HB3	2.00	0.44
3:UL:12:CYS:SG	39:UL:501:GTP:H5’	2.58	0.44
33:V:532:GLU:HA	33:V:535:CYS:SG	2.58	0.44
4:VA:11:GLN:HG3	39:VA:501:GTP:O1B	2.17	0.44
4:VA:422:ARG:HA	4:VA:425:LEU:HG	2.00	0.44
3:VB:135:LEU:O	3:VB:167:PHE:N	2.47	0.44
4:VC:428:LEU:O	4:VC:432:TYR:N	2.43	0.44
3:VD:256:ASN:HB3	3:VD:350:LYS:HG3	2.00	0.44
3:VF:87:PRO:HA	3:VF:90:PHE:CD2	2.53	0.44
3:VF:350:LYS:HE3	4:VG:180:ALA:HA	2.00	0.44
4:VG:163:LYS:HD3	4:VG:163:LYS:HA	1.72	0.44
3:VH:12:CYS:HB3	39:VH:501:GTP:H5’	1.99	0.44
3:VJ:319:GLY:N	3:VJ:321:MET:HE1	2.32	0.44
3:VL:182:PRO:HG2	3:VL:384:GLN:HE22	1.82	0.44
33:W:79:ILE:HG13	33:W:90:LEU:HB3	1.99	0.44
33:W:316:LYS:O	33:W:320:ASP:N	2.44	0.44
3:WB:309:ARG:HE	3:WB:426:GLN:NE2	2.02	0.44
4:WC:50:ASN:OD1	4:WC:51:THR:N	2.50	0.44
3:WD:87:PRO:HA	3:WD:90:PHE:CD2	2.53	0.44
3:WD:318:ARG:HD3	3:WD:358:PRO:HG3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WE:36:MET:HG3	4:WE:41:THR:OG1	2.17	0.44
4:WE:116:ASP:N	4:WE:116:ASP:OD1	2.47	0.44
3:WF:4:ILE:HB	3:WF:50:TYR:CE1	2.52	0.44
3:WF:34:GLY:HA3	3:WF:58:LYS:HZ2	1.81	0.44
3:WF:87:PRO:HA	3:WF:90:PHE:CD2	2.53	0.44
3:WF:318:ARG:C	3:WF:321:MET:HE1	2.43	0.44
4:WG:99:ALA:HB3	4:WG:144:GLY:O	2.18	0.44
4:WG:171:ILE:HD12	4:WG:204:VAL:HG13	2.00	0.44
3:WH:31:ASP:N	3:WH:31:ASP:OD1	2.50	0.44
4:WI:363:VAL:HG13	4:WI:366:GLY:HA3	1.99	0.44
4:WK:223:THR:OG1	4:WK:225:THR:OG1	2.26	0.44
4:WK:269:LEU:N	4:WK:379:SER:O	2.39	0.44
34:XB:20:LYS:O	34:XB:23:GLN:NE2	2.35	0.44
34:XC:1:MET:HG3	34:XC:68:THR:O	2.18	0.44
34:XD:62:PRO:HG3	34:XD:67:LYS:O	2.18	0.44
34:XE:124:ARG:HD3	34:XE:124:ARG:H	1.83	0.44
34:XG:39:ASP:O	34:XG:43:GLN:HA	2.18	0.44
34:XG:81:LYS:HD2	34:XG:129:TRP:NE1	2.33	0.44
35:XJ:125:LYS:HE2	35:XJ:125:LYS:HB3	1.83	0.44
35:XL:217:GLU:OE2	35:XL:235:TYR:OH	2.22	0.44
35:XM:207:ASP:O	35:XM:210:GLN:NE2	2.50	0.44
37:YB:61:THR:O	37:YB:65:ILE:HG12	2.17	0.44
37:YD:93:THR:HA	37:YD:96:LEU:HD12	1.98	0.44
37:YG:42:PRO:HA	37:YG:133:HIS:HB3	2.00	0.44
37:YH:128:ASP:HA	37:YH:131:ARG:HD3	2.00	0.44
37:YJ:15:TYR:OH	37:YJ:141:ILE:HG21	2.17	0.44
37:YL:90:THR:O	37:YL:94:ASN:N	2.30	0.44
37:YM:82:HIS:CE1	37:YM:86:LEU:HD21	2.53	0.44
37:YN:13:GLN:HA	37:YN:16:LYS:NZ	2.32	0.44
37:YT:43:ILE:HD11	37:YT:134:TYR:CE1	2.52	0.44
37:YU:41:ARG:HH12	37:YU:44:SER:H	1.65	0.44
37:YU:82:HIS:O	37:YU:86:LEU:HG	2.17	0.44
37:YW:29:LEU:O	37:YW:33:ARG:N	2.50	0.44
36:Z:287:GLU:HA	36:Z:290:LYS:HB2	1.99	0.44
36:Z:287:GLU:HA	36:Z:290:LYS:HD2	2.00	0.44
36:Z:356:ARG:NH2	36:Z:359:GLU:OE2	2.50	0.44
2:A1:267:GLY:O	2:A1:270:GLU:HG3	2.17	0.44
2:A2:23:GLN:OE1	2:A2:26:ARG:NH2	2.50	0.44
2:A3:69:GLU:HB2	5:B2:270:ARG:HH21	1.83	0.44
2:A3:162:ARG:HH12	13:G2:199:ILE:HG13	1.82	0.44
2:A4:208:GLU:OE1	2:A4:208:GLU:N	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:420:SER:O	3:AB:424:GLN:N	2.47	0.44
4:AC:337:THR:O	4:AC:339:ARG:NH1	2.44	0.44
3:AD:32:PRO:O	3:AD:83:GLN:NE2	2.44	0.44
3:AD:330:MET:CG	3:AD:349:VAL:HG11	2.48	0.44
3:AD:348:ASN:OD1	3:AD:348:ASN:N	2.50	0.44
4:AE:15:GLN:HG2	4:AE:16:ILE:N	2.31	0.44
4:AE:219:ILE:HG22	4:AE:222:PRO:HD3	1.98	0.44
4:AE:263:PRO:HD3	3:AF:396:HIS:CD2	2.52	0.44
3:AF:21:TRP:CZ2	3:AF:63:ALA:HB2	2.52	0.44
3:AF:299:MET:HE2	3:AF:303:CYS:C	2.43	0.44
3:AF:328:GLU:OE1	3:AF:332:ASN:ND2	2.50	0.44
3:AH:173:PRO:HD2	3:AH:205:GLU:CD	2.42	0.44
3:AH:223:GLY:O	3:AH:227:HIS:N	2.44	0.44
3:AH:267:MET:O	3:AH:368:ILE:HD12	2.18	0.44
3:AJ:313:VAL:HG23	3:AJ:349:VAL:HA	1.98	0.44
3:AJ:391:ARG:C	3:AJ:392:LYS:HG2	2.43	0.44
4:AK:118:VAL:HA	4:AK:121:ARG:CG	2.48	0.44
3:AL:390:ARG:O	3:AL:390:ARG:NH1	2.44	0.44
1:B:305:GLN:O	1:B:309:THR:HG23	2.17	0.44
5:B1:349:ILE:HG22	5:B1:353:LYS:NZ	2.33	0.44
5:B2:263:PHE:N	5:B2:266:ARG:HH21	2.16	0.44
5:B3:70:THR:O	5:B3:73:ARG:HG2	2.18	0.44
5:B3:123:ARG:HG3	5:B4:11:ARG:HH12	1.82	0.44
5:B3:180:MET:HE1	10:E2:131:GLY:HA2	2.00	0.44
5:B4:223:ARG:NH2	5:B4:227:ASN:OD1	2.51	0.44
5:B6:212:SER:HA	5:B7:331:ARG:NH1	2.33	0.44
5:B8:46:ARG:HG3	5:B8:47:ASN:N	2.33	0.44
5:B8:84:ASP:O	5:B8:233:MET:HE1	2.17	0.44
3:BB:106:TYR:HB2	3:BB:401:GLU:OE2	2.18	0.44
3:BB:215:LEU:HD11	3:BB:228:LEU:HD11	1.99	0.44
4:BC:390:ARG:HA	4:BC:393:HIS:CD2	2.53	0.44
4:BE:287:SER:HG	4:BE:290:GLU:CD	2.21	0.44
3:BF:272:PRO:HA	3:BF:292:GLN:OE1	2.18	0.44
3:BF:318:ARG:C	3:BF:321:MET:HE1	2.43	0.44
3:BH:12:CYS:SG	3:BH:13:GLY:N	2.90	0.44
3:BH:311:LEU:HD23	3:BH:342:VAL:HG11	1.98	0.44
3:BH:385:PHE:HZ	3:BH:408:PHE:HB3	1.83	0.44
4:BI:280:LYS:HD2	4:BI:280:LYS:HA	1.77	0.44
6:C:308:LYS:C	38:a:70:ARG:HH22	2.18	0.44
7:C2:257:ASP:O	7:C2:261:LYS:HG2	2.17	0.44
7:C2:365:LEU:HB2	7:C2:455:LEU:CD2	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C8:340:PHE:CE1	7:C8:477:ARG:HG3	2.53	0.44
7:C9:199:LEU:HD21	7:C9:219:LEU:HB3	2.00	0.44
4:CC:311:LYS:NZ	4:CC:343:PHE:O	2.47	0.44
3:CD:167:PHE:HA	3:CD:200:TYR:HB2	1.98	0.44
3:CD:257:MET:O	3:CD:259:PRO:HD3	2.17	0.44
3:CD:318:ARG:HG3	3:CD:354:CYS:SG	2.58	0.44
4:CG:88:HIS:HD2	4:DE:284:GLU:OE2	2.01	0.44
3:CJ:2:ARG:HD3	4:CK:96:LYS:O	2.18	0.44
3:CJ:48:ASN:HA	3:CJ:51:TYR:O	2.17	0.44
3:CJ:174:LYS:HG2	3:CJ:205:GLU:OE2	2.18	0.44
3:CJ:269:GLY:HA3	3:CJ:367:PHE:HB3	2.00	0.44
4:CK:229:ARG:NH1	4:CK:366:GLY:HA2	2.18	0.44
3:CL:180:VAL:HA	3:CL:183:TYR:CD1	2.52	0.44
4:CM:252:LEU:HD12	4:CM:253:THR:N	2.32	0.44
7:Ca:428:ASP:HB3	10:E1:17:THR:HG21	2.00	0.44
7:Cc:250:ALA:HA	7:Cc:310:ARG:HH12	1.82	0.44
7:Cc:317:ALA:HA	7:Cc:320:LYS:NZ	2.32	0.44
8:D2:119:ARG:HD2	8:D2:120:GLU:N	2.32	0.44
8:D2:286:LEU:HD21	8:D2:444:ALA:HB1	2.00	0.44
8:D3:202:ARG:NH2	8:D3:205:ARG:HH11	2.16	0.44
8:D4:320:TYR:HA	8:D4:323:ARG:NH2	2.33	0.44
8:D7:272:ARG:O	8:D7:276:VAL:HG23	2.17	0.44
8:D9:185:ASN:HA	8:D9:188:GLU:CD	2.42	0.44
4:DA:11:GLN:N	39:DA:501:GTP:O1B	2.51	0.44
4:DA:51:THR:HG23	4:DA:52:PHE:HD2	1.82	0.44
3:DB:266:PHE:CD1	3:DB:370:ASN:HB2	2.53	0.44
4:DC:201:ALA:HB3	4:DC:267:PHE:CD1	2.52	0.44
4:DC:229:ARG:NH2	4:DC:367:ASP:H	2.16	0.44
4:DC:387:ALA:O	4:DC:391:LEU:HG	2.18	0.44
4:DE:239:THR:HA	4:DE:242:LEU:HD13	2.00	0.44
3:DF:44:LEU:HD21	15:H4:289:ILE:HG22	2.00	0.44
4:DG:68:VAL:HG12	4:DG:93:ILE:HB	1.98	0.44
3:DH:321:MET:N	3:DH:321:MET:SD	2.90	0.44
4:DI:154:MET:HA	4:DI:157:LEU:HG	1.98	0.44
3:DJ:336:LYS:HD3	3:DJ:337:ASN:OD1	2.17	0.44
3:DJ:372:THR:HB	3:DJ:375:GLN:HE22	1.82	0.44
4:DK:12:ALA:O	39:DK:501:GTP:N2	2.50	0.44
4:DK:387:ALA:HA	4:DK:390:ARG:HH12	1.83	0.44
8:Da:90:ALA:C	8:Da:94:ARG:HE	2.24	0.44
4:EC:85:GLN:OE1	4:EC:85:GLN:N	2.35	0.44
4:EC:272:TYR:HE1	4:EC:374:ALA:HB1	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ED:208:TYR:HE1	3:ED:225:LEU:HD21	1.83	0.44
3:ED:323:MET:SD	3:ED:323:MET:N	2.90	0.44
4:EE:58:ALA:O	14:G5:712:TYR:OH	2.35	0.44
4:EE:224:TYR:O	4:EE:225:THR:C	2.61	0.44
4:EG:105:ARG:O	4:EG:109:THR:OG1	2.21	0.44
3:EH:315:ALA:HB2	3:EH:367:PHE:HD1	1.82	0.44
4:EI:10:GLY:O	4:EI:14:VAL:HG13	2.16	0.44
4:EK:40:LYS:H	13:G3:421:ARG:NH1	2.15	0.44
11:F1:184:VAL:HG13	11:F1:226:GLN:HE21	1.83	0.44
11:F1:416:LEU:O	11:F1:419:GLU:HB2	2.17	0.44
11:F3:248:HIS:NE2	11:F7:199:GLU:OE2	2.50	0.44
11:F4:168:SER:O	11:F4:172:THR:HG23	2.18	0.44
11:F7:114:SER:O	11:F7:117:THR:OG1	2.31	0.44
11:F7:389:LEU:HD12	11:F7:390:LYS:N	2.32	0.44
4:FA:50:ASN:O	4:FA:64:ARG:NH1	2.49	0.44
3:FB:318:ARG:HA	3:FB:354:CYS:HB3	2.00	0.44
4:FE:273:ALA:O	4:FE:275:VAL:N	2.48	0.44
3:FF:134:GLN:HA	3:FF:165:ASN:HB3	2.00	0.44
4:FG:329:ASN:HA	4:FG:332:ILE:HG22	2.00	0.44
4:FI:216:ASN:HD21	4:FI:275:VAL:HG23	1.83	0.44
3:FJ:174:LYS:HG2	3:FJ:205:GLU:OE2	2.17	0.44
3:FJ:345:ILE:HD12	3:FJ:346:PRO:HD2	1.98	0.44
11:Fa:313:ASN:HA	11:Fa:316:ARG:HE	1.83	0.44
11:Fb:349:GLU:CD	11:Fb:349:GLU:H	2.24	0.44
11:Fc:106:ALA:O	11:Fc:110:ARG:HG2	2.18	0.44
11:Fc:131:ILE:HG13	11:Fc:132:HIS:N	2.31	0.44
11:Fc:173:LEU:O	11:Fc:177:LEU:HG	2.18	0.44
11:Fg:145:ARG:HH22	11:Fg:293:PRO:HA	1.81	0.44
11:Fj:156:LEU:HB2	11:Fj:254:ILE:HD11	1.99	0.44
11:Fj:177:LEU:HD22	11:Fj:233:ALA:HB2	2.00	0.44
11:Fj:229:MET:HA	11:Fj:232:LEU:HD12	2.00	0.44
11:Fj:233:ALA:O	11:Fj:236:ILE:HG22	2.17	0.44
11:Fk:169:SER:O	11:Fk:172:THR:OG1	2.31	0.44
11:Fk:460:ASN:O	11:Fk:464:ILE:HG12	2.18	0.44
11:Fl:370:GLN:O	11:Fl:374:THR:HG23	2.18	0.44
12:G:215:ARG:HG3	12:G:218:GLN:NE2	2.33	0.44
12:G:256:ALA:HA	12:G:259:LEU:HD12	2.00	0.44
13:G2:103:PHE:HB2	13:G2:179:LYS:HE3	2.00	0.44
13:G2:157:ASN:N	13:G2:161:ASP:OD1	2.37	0.44
13:G2:443:PHE:HE2	13:G2:450:SER:HB3	1.81	0.44
14:G4:503:LYS:NZ	14:G4:505:GLU:HB2	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G4:506:GLU:OE1	14:G4:506:GLU:N	2.50	0.44
14:G4:538:ASP:N	14:G4:538:ASP:OD1	2.49	0.44
14:G4:668:PRO:O	14:G4:669:LEU:HD12	2.18	0.44
14:G5:236:TRP:O	14:G5:246:ARG:HD3	2.18	0.44
14:G5:314:ARG:C	14:G5:316:ASP:H	2.26	0.44
14:G5:502:ILE:HD12	14:G5:502:ILE:H	1.82	0.44
14:G6:436:TYR:CD2	14:G6:507:LEU:HD23	2.52	0.44
4:GA:323:VAL:HG22	4:GA:373:ARG:HG2	2.00	0.44
4:GA:386:GLU:HA	4:GA:389:ALA:HB3	1.98	0.44
4:GC:3:GLU:CD	4:GC:132:LEU:H	2.25	0.44
4:GC:88:HIS:HB3	4:GC:91:GLN:HG2	1.98	0.44
4:GC:213:CYS:O	4:GC:218:ASP:N	2.51	0.44
4:GC:315:CYS:O	4:GC:351:PHE:HA	2.17	0.44
3:GD:189:VAL:HA	3:GD:192:LEU:HB2	2.00	0.44
4:GE:10:GLY:HA2	4:GE:145:THR:OG1	2.16	0.44
4:GE:165:SER:C	4:GE:166:LYS:HD2	2.43	0.44
4:GE:224:TYR:HB3	4:GE:228:ASN:HD21	1.83	0.44
4:GE:272:TYR:CZ	4:GE:274:PRO:HG2	2.52	0.44
4:GG:96:LYS:CG	23:M:140:THR:HG23	2.45	0.44
4:GG:139:HIS:HE1	4:GG:168:GLU:HB3	1.82	0.44
4:GI:279:GLU:O	4:GI:282:TYR:HB3	2.17	0.44
3:GJ:111:GLU:OE1	3:GJ:111:GLU:N	2.47	0.44
15:H2:292:MET:HG3	15:H2:293:GLN:CD	2.43	0.44
15:H3:234:MET:SD	15:H3:234:MET:N	2.90	0.44
15:H3:281:LEU:HB3	15:H3:304:THR:HG21	2.00	0.44
3:HB:379:LYS:O	3:HB:382:SER:OG	2.22	0.44
4:HC:7:ILE:HB	4:HC:137:ILE:HG13	1.99	0.44
4:HC:35:GLN:HG2	4:HC:59:GLY:O	2.18	0.44
4:HC:279:GLU:O	4:HC:282:TYR:HB3	2.18	0.44
3:HD:111:GLU:HG2	3:HD:112:LEU:HD22	1.98	0.44
3:HD:217:LEU:O	3:HD:219:THR:N	2.49	0.44
3:HD:229:VAL:O	3:HD:232:THR:OG1	2.29	0.44
4:HE:363:VAL:H	4:HE:368:LEU:HD21	1.82	0.44
4:HG:15:GLN:HG2	4:HG:16:ILE:N	2.31	0.44
4:HG:216:ASN:HD21	4:HG:275:VAL:HG23	1.82	0.44
4:HG:391:LEU:O	4:HG:394:LYS:N	2.50	0.44
4:HI:3:GLU:CD	4:HI:131:GLY:H	2.25	0.44
4:HI:116:ASP:N	4:HI:116:ASP:OD1	2.47	0.44
3:HJ:6:HIS:HE1	3:HJ:8:GLN:HB2	1.82	0.44
3:HJ:269:GLY:O	3:HJ:367:PHE:N	2.34	0.44
4:HK:4:CYS:SG	4:HK:134:GLY:N	2.90	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HK:111:GLY:HA2	4:HK:149:PHE:CE1	2.52	0.44
3:HL:118:ASP:HA	3:HL:121:ARG:HG2	1.99	0.44
4:IA:14:VAL:HA	4:IA:67:PHE:HE1	1.82	0.44
4:IA:95:GLY:C	4:IA:96:LYS:HD3	2.43	0.44
4:IA:107:HIS:CD2	4:IA:152:LEU:HB2	2.53	0.44
3:IB:227:HIS:HA	3:IB:230:SER:OG	2.18	0.44
4:IC:36:MET:HG3	4:IC:41:THR:OG1	2.17	0.44
4:IC:161:TYR:O	4:IC:166:LYS:NZ	2.40	0.44
4:IC:185:TYR:CE1	4:IC:398:MET:HE1	2.52	0.44
4:IC:215:ARG:HH12	4:IC:299:ALA:HB1	1.81	0.44
4:IC:234:ILE:HD11	4:IC:272:TYR:HB2	2.00	0.44
3:ID:51:TYR:CD1	3:ID:61:PRO:HA	2.53	0.44
4:IG:11:GLN:NE2	39:IG:501:GTP:O3A	2.50	0.44
4:IG:118:VAL:HA	4:IG:121:ARG:HG2	1.99	0.44
3:IH:197:ASP:OD1	3:IH:198:GLU:N	2.50	0.44
3:IH:412:GLU:HA	3:IH:415:MET:HE2	1.98	0.44
4:II:89:PRO:HD3	3:JH:281:TYR:HE2	1.83	0.44
4:II:160:ASP:OD1	4:II:161:TYR:N	2.50	0.44
3:IJ:12:CYS:HA	39:IJ:501:GTP:HN22	1.83	0.44
3:IJ:357:PRO:HB2	3:IJ:362:LYS:HE3	1.99	0.44
3:IL:2:ARG:HB3	3:IL:131:GLN:NE2	2.32	0.44
4:IM:36:MET:HE3	4:IM:61:HIS:CE1	2.52	0.44
4:IM:274:PRO:HG3	4:IM:374:ALA:HA	1.99	0.44
19:J3:32:ASN:HD21	19:J3:35:VAL:HG23	1.83	0.44
19:J3:180:GLU:OE2	19:J3:184:TYR:CZ	2.71	0.44
4:JA:90:GLU:HG2	4:JA:121:ARG:NH2	2.33	0.44
4:JA:176:GLN:NE2	4:JA:207:GLU:OE2	2.50	0.44
3:JB:328:GLU:OE1	3:JB:332:ASN:ND2	2.50	0.44
3:JD:216:LYS:HB2	3:JD:276:ARG:HD2	2.00	0.44
3:JD:234:SER:O	3:JD:238:THR:HG23	2.17	0.44
4:JE:8:HIS:HE1	4:JE:65:ALA:HB1	1.82	0.44
4:JE:135:PHE:HD2	4:JE:166:LYS:HG3	1.82	0.44
4:JE:174:ALA:HB3	4:JE:177:VAL:O	2.17	0.44
4:JE:338:LYS:HZ3	4:JE:339:ARG:H	1.66	0.44
4:JG:54:SER:N	4:JG:62:VAL:O	2.50	0.44
4:JG:399:TYR:OH	4:JG:415:GLU:HG3	2.18	0.44
3:JH:46:ARG:HH22	4:JI:73:THR:HG23	1.83	0.44
3:JJ:239:CYS:SG	3:JJ:316:VAL:HG11	2.57	0.44
3:JJ:404:ASP:OD1	3:JJ:404:ASP:N	2.49	0.44
21:K2:176:GLN:O	21:K2:179:VAL:HG22	2.17	0.44
21:K2:187:LYS:HG3	21:K2:188:CYS:N	2.27	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:K2:189:GLU:O	21:K2:191:ILE:HG13	2.17	0.44
4:KC:216:ASN:OD1	4:KC:217:LEU:N	2.50	0.44
4:KC:252:LEU:HD12	4:KC:253:THR:N	2.32	0.44
3:KD:11:GLN:OE1	39:KD:501:GTP:N2	2.50	0.44
4:KE:192:HIS:CE1	4:KE:193:THR:HG23	2.52	0.44
4:KE:202:PHE:CE1	4:KE:268:PRO:HD2	2.52	0.44
3:KF:8:GLN:HE21	3:KF:13:GLY:C	2.25	0.44
4:KG:22:GLU:O	4:KG:26:LEU:HD23	2.18	0.44
4:KG:263:PRO:O	4:KG:264:ARG:HB2	2.17	0.44
4:KI:2:ARG:HA	4:KI:133:GLN:NE2	2.33	0.44
4:KI:332:ILE:O	4:KI:336:LYS:HG3	2.17	0.44
4:KI:388:TRP:HB3	4:KI:425:LEU:HD11	1.99	0.44
3:KJ:101:TRP:CE3	3:KJ:187:LEU:HD13	2.53	0.44
4:KK:22:GLU:O	4:KK:26:LEU:HD23	2.17	0.44
4:KK:139:HIS:HE1	4:KK:168:GLU:HB3	1.83	0.44
22:L1:218:ILE:HD11	22:L1:224:LYS:HG2	1.99	0.44
22:L2:106:ILE:HG12	3:LF:425:TYR:HE1	1.82	0.44
22:L3:66:HIS:CE1	3:LH:194:GLU:HG2	2.53	0.44
4:LA:203:MET:HA	4:LA:203:MET:HE2	2.00	0.44
4:LC:225:THR:O	4:LC:229:ARG:HB2	2.18	0.44
3:LD:273:LEU:H	3:LD:292:GLN:HE22	1.66	0.44
4:LE:104:ALA:O	4:LE:108:TYR:N	2.49	0.44
3:LF:51:TYR:CD1	3:LF:61:PRO:HA	2.53	0.44
3:LF:189:VAL:HA	3:LF:192:LEU:HD12	2.00	0.44
4:LG:311:LYS:NZ	4:LG:343:PHE:O	2.51	0.44
3:LH:6:HIS:HB3	3:LH:21:TRP:HZ2	1.82	0.44
4:LI:331:ALA:O	4:LI:335:ILE:HG12	2.17	0.44
4:LK:220:GLU:HG2	4:LK:221:ARG:HE	1.83	0.44
4:LK:288:VAL:O	4:LK:292:THR:OG1	2.24	0.44
4:LK:319:TYR:N	4:LK:354:GLY:O	2.48	0.44
3:LL:328:GLU:OE1	3:LL:332:ASN:ND2	2.50	0.44
3:MB:12:CYS:HA	39:MB:501:GTP:N2	2.33	0.44
4:MC:192:HIS:CE1	4:MC:193:THR:HG23	2.53	0.44
3:MD:409:THR:HG21	28:O1:38:TYR:CZ	2.52	0.44
4:ME:352:LYS:NZ	3:MF:178:THR:HA	2.33	0.44
3:MH:152:ILE:HD12	3:MH:195:ASN:HB2	2.00	0.44
3:MH:188:SER:O	3:MH:192:LEU:HG	2.17	0.44
3:MH:216:LYS:HG3	3:MH:275:SER:OG	2.17	0.44
4:MI:216:ASN:OD1	4:MI:217:LEU:N	2.51	0.44
4:MK:47:ASP:O	4:MK:50:ASN:N	2.39	0.44
4:MK:167:LEU:HB3	4:MK:169:PHE:CZ	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MK:311:LYS:NZ	4:MK:343:PHE:O	2.45	0.44
3:ML:4:ILE:HG12	3:ML:131:GLN:OE1	2.18	0.44
4:MM:213:CYS:O	4:MM:218:ASP:N	2.50	0.44
4:MM:316:CYS:HB3	4:MM:378:LEU:HB2	2.00	0.44
3:NB:152:ILE:O	3:NB:156:ARG:HG2	2.18	0.44
4:NC:117:LEU:O	4:NC:121:ARG:HG2	2.18	0.44
3:ND:101:TRP:CE3	3:ND:187:LEU:HD13	2.52	0.44
3:NF:247:ASN:CB	3:NF:252:LYS:HG2	2.41	0.44
3:NF:392:LYS:C	3:NF:395:LEU:HD13	2.43	0.44
4:NI:3:GLU:CD	4:NI:131:GLY:H	2.25	0.44
3:NJ:290:THR:HG21	3:NJ:329:GLN:HB3	1.98	0.44
4:NK:321:GLY:HA3	4:NK:372:GLN:O	2.18	0.44
28:O2:88:ALA:O	28:O2:92:LEU:HG	2.17	0.44
4:OA:116:ASP:N	4:OA:116:ASP:OD1	2.50	0.44
4:OA:234:ILE:O	4:OA:237:SER:OG	2.32	0.44
3:OB:250:LEU:HD13	3:OB:253:LEU:HD12	1.99	0.44
3:OD:81:PHE:O	3:OD:84:ILE:HG22	2.18	0.44
4:OE:385:ALA:HB2	4:OE:432:TYR:HD2	1.83	0.44
3:OF:245:GLN:HE22	4:OG:15:GLN:HE22	1.63	0.44
3:OH:83:GLN:O	3:OH:86:ARG:NH2	2.50	0.44
3:OH:267:MET:O	3:OH:368:ILE:HD12	2.17	0.44
4:OK:116:ASP:N	4:OK:116:ASP:OD1	2.49	0.44
4:OK:132:LEU:O	4:OK:132:LEU:HD12	2.17	0.44
4:OK:318:LEU:HD13	4:OK:354:GLY:HA3	1.99	0.44
29:P1:317:VAL:HG22	29:P1:324:GLU:HA	1.98	0.44
29:P2:569:VAL:HG13	29:P2:590:ILE:HD13	1.99	0.44
4:PA:212:ILE:HG13	4:PA:215:ARG:NH2	2.32	0.44
3:PB:51:TYR:CD1	3:PB:61:PRO:HA	2.52	0.44
4:PC:192:HIS:CE1	4:PC:193:THR:HG23	2.52	0.44
4:PC:256:GLN:O	4:PC:260:VAL:HG12	2.16	0.44
3:PH:258:VAL:HG22	3:PH:266:PHE:HZ	1.82	0.44
3:PH:384:GLN:O	3:PH:388:MET:HG2	2.18	0.44
4:PK:433:GLU:O	4:PK:437:VAL:N	2.45	0.44
3:PL:77:ARG:O	3:PL:77:ARG:NH1	2.45	0.44
4:PM:79:ARG:HH22	4:PM:94:THR:HB	1.81	0.44
4:PM:239:THR:OG1	4:PM:243:ARG:NH1	2.50	0.44
30:Q1:1345:ARG:O	30:Q1:1349:GLU:HG3	2.17	0.44
30:Q2:1444:GLN:N	30:Q2:1445:PRO:HD2	2.32	0.44
4:QC:11:GLN:HG3	39:QC:501:GTP:O1B	2.18	0.44
4:QE:201:ALA:H	4:QE:266:HIS:HD2	1.66	0.44
3:QF:7:LEU:HD13	3:QF:64:VAL:HB	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QF:12:CYS:HB3	39:QF:501:GTP:H5'	2.00	0.44
3:QH:2:ARG:HB3	3:QH:131:GLN:CD	2.43	0.44
3:QH:117:LEU:HA	3:QH:120:VAL:HG22	1.99	0.44
3:QH:118:ASP:HA	3:QH:121:ARG:NE	2.32	0.44
3:QH:378:PHE:HA	3:QH:381:ILE:HG22	2.00	0.44
4:QI:54:SER:N	4:QI:62:VAL:O	2.51	0.44
3:QJ:24:ILE:HA	3:QJ:27:GLU:HG2	1.99	0.44
3:QJ:323:MET:O	3:QJ:327:ASP:HB2	2.18	0.44
4:QK:50:ASN:OD1	4:QK:51:THR:N	2.51	0.44
4:QK:141:PHE:HB2	4:QK:173:PRO:HD3	1.99	0.44
39:QL:501:GTP:O3G	39:QL:501:GTP:O3'	2.20	0.44
4:QM:175:PRO:O	4:QM:390:ARG:HD3	2.17	0.44
4:QM:247:ALA:HB3	4:QM:355:ILE:HG21	1.98	0.44
27:R:217:ASN:O	27:R:221:VAL:HG23	2.17	0.44
31:R1:275:LEU:CB	31:R1:277:MET:HE1	2.48	0.44
3:RB:375:GLN:HA	3:RB:378:PHE:CE1	2.53	0.44
4:RC:396:ASP:HB3	4:RC:422:ARG:HH12	1.83	0.44
3:RD:3:GLU:HG2	3:RD:130:LEU:HD23	2.00	0.44
3:RD:135:LEU:HG	3:RD:137:HIS:CD2	2.49	0.44
4:RE:70:LEU:HD11	4:RE:149:PHE:HE2	1.82	0.44
4:RE:402:ARG:HB3	4:RE:405:VAL:HG21	2.00	0.44
4:RG:16:ILE:HD11	4:RG:138:PHE:HB3	1.99	0.44
4:RG:115:VAL:HA	4:RG:118:VAL:HG22	1.98	0.44
3:RH:118:ASP:HA	3:RH:121:ARG:HG2	2.00	0.44
3:RH:226:ASN:HA	3:RH:229:VAL:HG22	1.99	0.44
3:RH:269:GLY:N	3:RH:367:PHE:O	2.50	0.44
4:RI:186:ASN:OD1	4:RI:187:SER:N	2.51	0.44
3:RJ:292:GLN:HA	3:RJ:295:ASP:OD2	2.17	0.44
4:RK:6:SER:HB3	4:RK:65:ALA:HB2	2.00	0.44
4:RK:280:LYS:O	4:RK:284:GLU:HB2	2.17	0.44
3:RL:36:TYR:CZ	3:RL:38:GLY:HA2	2.53	0.44
3:RL:378:PHE:O	3:RL:381:ILE:HG22	2.17	0.44
4:RM:252:LEU:HA	4:RM:255:PHE:CD2	2.53	0.44
3:SB:3:GLU:HG2	3:SB:130:LEU:HD23	1.97	0.44
3:SD:380:ARG:O	3:SD:384:GLN:HG2	2.17	0.44
4:SG:75:VAL:HG22	4:SG:79:ARG:HH21	1.82	0.44
3:SH:97:ALA:HA	3:SH:103:LYS:HZ3	1.83	0.44
4:SI:245:ASP:HA	4:SI:249:ASN:HD21	1.82	0.44
4:SI:301:GLN:OE1	4:SI:301:GLN:N	2.51	0.44
3:SJ:182:PRO:HB3	3:SJ:381:ILE:HD11	2.00	0.44
4:SK:1:MET:HE1	4:SK:51:THR:HB	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:SK:7:ILE:HD12	4:SK:66:VAL:O	2.17	0.44
4:SK:30:ILE:HG13	4:SK:53:PHE:HE2	1.82	0.44
4:SK:99:ALA:HB3	4:SK:144:GLY:O	2.18	0.44
4:SK:263:PRO:O	4:SK:264:ARG:HB2	2.18	0.44
3:SL:39:ASP:OD1	3:SL:39:ASP:N	2.48	0.44
4:SM:99:ALA:HB3	4:SM:144:GLY:O	2.18	0.44
4:SM:255:PHE:O	4:SM:259:LEU:HB2	2.18	0.44
3:TB:106:TYR:CE1	3:TB:403:MET:HE1	2.52	0.44
4:TC:150:ALA:O	4:TC:154:MET:HG3	2.18	0.44
4:TC:371:VAL:HG11	4:TC:374:ALA:HB2	1.98	0.44
4:TC:433:GLU:O	4:TC:437:VAL:HG23	2.16	0.44
3:TD:20:PHE:HA	3:TD:230:SER:HB2	1.99	0.44
3:TD:280:GLN:H	3:TD:280:GLN:HG3	1.66	0.44
3:TD:350:LYS:HE3	4:TE:181:VAL:H	1.82	0.44
4:TE:286:LEU:HD11	4:TE:372:GLN:H	1.82	0.44
3:TF:8:GLN:HB3	3:TF:65:LEU:HA	1.99	0.44
4:TG:6:SER:HB3	4:TG:65:ALA:HB2	1.99	0.44
4:TG:321:GLY:HA3	4:TG:372:GLN:O	2.18	0.44
4:TG:329:ASN:HA	4:TG:332:ILE:HG12	1.98	0.44
4:TI:15:GLN:HG2	4:TI:16:ILE:N	2.33	0.44
3:TJ:192:LEU:O	3:TJ:196:THR:HG22	2.18	0.44
3:TJ:292:GLN:HA	3:TJ:295:ASP:OD2	2.18	0.44
4:TM:116:ASP:OD1	4:TM:116:ASP:N	2.50	0.44
4:TM:311:LYS:N	4:TM:382:THR:OG1	2.50	0.44
3:UB:318:ARG:C	3:UB:321:MET:HE1	2.42	0.44
4:UC:3:GLU:CD	4:UC:132:LEU:H	2.26	0.44
3:UD:345:ILE:HD12	3:UD:346:PRO:HD2	2.00	0.44
4:UE:397:LEU:HD12	4:UE:398:MET:N	2.33	0.44
4:UE:415:GLU:OE2	4:UE:419:SER:OG	2.34	0.44
39:UH:501:GTP:O3G	39:UH:501:GTP:O3'	2.19	0.44
4:UI:231:ILE:HD12	4:UI:234:ILE:HB	1.99	0.44
4:UI:333:ALA:HA	4:UI:336:LYS:HD2	1.99	0.44
3:UJ:9:ALA:HB3	3:UJ:137:HIS:HB3	2.00	0.44
3:UJ:52:ASN:OD1	3:UJ:62:ARG:NH1	2.51	0.44
3:UJ:243:PRO:HD2	3:UJ:356:ILE:HG13	1.99	0.44
4:UK:146:GLY:N	39:UK:501:GTP:O2B	2.42	0.44
3:UL:4:ILE:HB	3:UL:50:TYR:HE1	1.82	0.44
3:UL:266:PHE:HD1	3:UL:370:ASN:HB2	1.83	0.44
4:VC:279:GLU:HA	4:VC:282:TYR:HB3	1.98	0.44
3:VD:54:ALA:HA	3:WD:283:ALA:HB2	1.98	0.44
3:VD:197:ASP:HA	3:VD:264:HIS:ND1	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VD:347:ASN:HB3	4:VE:178:SER:HB3	2.00	0.44
3:VD:406:MET:O	3:VD:409:THR:OG1	2.23	0.44
4:VE:186:ASN:OD1	4:VE:187:SER:N	2.51	0.44
3:VF:101:TRP:HB3	3:VF:398:TYR:OH	2.18	0.44
3:VF:271:ALA:O	3:VF:273:LEU:HD12	2.17	0.44
4:VG:174:ALA:HB3	4:VG:177:VAL:O	2.17	0.44
3:VH:166:THR:OG1	3:VH:198:GLU:O	2.32	0.44
3:VH:385:PHE:O	3:VH:389:PHE:HD2	2.01	0.44
4:VI:145:THR:OG1	39:VI:501:GTP:O1B	2.32	0.44
4:VI:186:ASN:HA	4:VI:189:LEU:HD12	1.99	0.44
4:VI:418:PHE:O	4:VI:422:ARG:NH2	2.51	0.44
4:VK:363:VAL:HG13	4:VK:366:GLY:HA3	1.98	0.44
3:VL:77:ARG:O	3:VL:77:ARG:NH1	2.39	0.44
4:WA:1:MET:HE3	4:WA:50:ASN:ND2	2.33	0.44
3:WB:47:ILE:HG12	3:WB:59:TYR:CD2	2.52	0.44
4:WE:345:ASP:N	4:WE:345:ASP:OD1	2.48	0.44
3:WF:70:PRO:HB3	35:XJ:74:LYS:HD2	1.98	0.44
3:WF:217:LEU:O	3:WF:219:THR:N	2.49	0.44
3:WF:299:MET:HE3	3:WF:299:MET:HB3	1.93	0.44
3:WF:383:GLU:O	3:WF:387:ALA:N	2.46	0.44
4:WG:160:ASP:OD1	4:WG:161:TYR:N	2.50	0.44
4:WG:187:SER:O	4:WG:190:THR:OG1	2.25	0.44
3:WH:77:ARG:HD3	3:WH:90:PHE:HE2	1.83	0.44
3:WH:87:PRO:HA	3:WH:90:PHE:CD2	2.53	0.44
3:WH:268:PRO:HD2	3:WH:301:ALA:HB2	1.99	0.44
3:WH:290:THR:HG21	3:WH:329:GLN:HB3	1.98	0.44
3:WH:319:GLY:N	3:WH:321:MET:HE1	2.32	0.44
3:WH:404:ASP:N	3:WH:404:ASP:OD1	2.49	0.44
4:WI:1:MET:HE2	4:WI:2:ARG:H	1.81	0.44
4:WI:260:VAL:HG23	4:WI:265:ILE:O	2.17	0.44
3:WJ:404:ASP:OD1	3:WJ:406:MET:HG3	2.18	0.44
3:WJ:412:GLU:O	3:WJ:416:ASN:N	2.40	0.44
4:WK:263:PRO:HB2	4:WK:264:ARG:NH1	2.32	0.44
3:WL:4:ILE:HB	3:WL:50:TYR:CE1	2.53	0.44
3:WL:139:LEU:N	3:WL:168:SER:OG	2.51	0.44
3:WL:152:ILE:O	3:WL:156:ARG:HG2	2.16	0.44
3:WL:309:ARG:H	3:WL:372:THR:HG1	1.61	0.44
33:X:369:ILE:O	33:X:373:ARG:HG2	2.17	0.44
34:XA:26:ASP:O	34:XA:28:LYS:NZ	2.51	0.44
34:XB:33:HIS:CE1	34:XB:50:GLU:HB2	2.53	0.44
34:XB:70:GLY:HA2	34:XB:150:GLU:OE2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:XE:60:THR:HG23	34:XE:155:GLN:HB2	2.00	0.44
34:XF:3:LYS:C	34:XF:3:LYS:HD3	2.43	0.44
35:XL:229:LYS:NZ	35:XL:233:PRO:O	2.50	0.44
37:YB:16:LYS:HA	37:YB:19:GLN:OE1	2.17	0.44
37:YD:100:CYS:SG	37:YD:101:LYS:HE2	2.57	0.44
37:YD:122:VAL:HA	37:YD:125:LEU:HD12	2.00	0.44
37:YI:92:VAL:HG21	37:YI:154:HIS:CE1	2.52	0.44
37:YL:141:ILE:O	37:YL:145:LEU:N	2.47	0.44
37:YM:99:LYS:NZ	37:YM:148:MET:SD	2.90	0.44
37:YO:90:THR:N	37:YO:93:THR:OG1	2.50	0.44
37:YS:18:PHE:HA	37:YS:21:GLN:HB2	1.99	0.44
37:YU:13:GLN:NE2	37:YU:14:LYS:HG3	2.32	0.44
36:Z:217:GLU:HB2	36:Z:220:LYS:NZ	2.33	0.44
36:Z:402:LYS:O	36:Z:406:ILE:HG13	2.17	0.44
2:A1:129:HIS:CE1	2:A1:133:GLU:HB3	2.53	0.44
2:A1:323:ARG:CZ	2:A2:180:THR:O	2.65	0.44
2:A3:338:ILE:HG22	2:A3:342:GLN:HE21	1.82	0.44
2:A4:14:GLU:HG2	2:A4:15:GLU:OE1	2.18	0.44
2:A4:30:GLN:HA	2:A4:33:GLN:HE21	1.81	0.44
3:AB:36:TYR:CZ	3:AB:38:GLY:HA2	2.53	0.44
3:AB:261:PRO:O	3:AB:264:HIS:NE2	2.50	0.44
3:AB:318:ARG:C	3:AB:321:MET:HE1	2.42	0.44
4:AE:288:VAL:O	4:AE:292:THR:OG1	2.29	0.44
4:AG:105:ARG:HG2	4:AG:109:THR:HG21	1.99	0.44
4:AG:391:LEU:O	4:AG:395:PHE:N	2.49	0.44
4:AI:88:HIS:HE1	4:AI:90:GLU:CD	2.26	0.44
3:AJ:52:ASN:OD1	3:AJ:62:ARG:NH1	2.50	0.44
3:AJ:350:LYS:HE3	4:AK:181:VAL:N	2.32	0.44
3:AL:106:TYR:HB2	3:AL:401:GLU:OE2	2.17	0.44
3:AL:374:ILE:HG23	3:AL:377:LEU:HD12	1.99	0.44
5:B1:141:VAL:O	5:B1:145:GLU:HG2	2.18	0.44
5:B1:305:ARG:HA	5:B1:308:MET:HG3	1.99	0.44
5:B1:373:ILE:O	5:B1:377:ILE:HG12	2.18	0.44
5:B3:331:ARG:HA	5:B3:335:GLN:NE2	2.32	0.44
5:B8:204:ASN:O	5:B8:207:ARG:NE	2.36	0.44
4:BG:320:ARG:HG2	4:BG:358:GLN:O	2.17	0.44
4:BI:107:HIS:CD2	4:BI:152:LEU:HB2	2.53	0.44
3:BJ:318:ARG:HD3	3:BJ:358:PRO:HG3	1.99	0.44
3:BL:6:HIS:HE1	3:BL:8:GLN:HB2	1.83	0.44
4:BM:397:LEU:O	4:BM:401:LYS:HG2	2.17	0.44
6:C:112:LYS:HD3	6:C:181:GLU:HG2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C1:121:ARG:CZ	7:C2:374:GLN:HG3	2.48	0.44
7:C1:284:PHE:CZ	7:C2:398:THR:HA	2.53	0.44
7:C2:132:TYR:O	7:C2:136:ARG:HG2	2.18	0.44
7:C2:190:GLY:O	7:C2:193:GLN:HG3	2.18	0.44
7:C3:213:ASP:HB2	7:C3:216:GLU:OE1	2.18	0.44
7:C4:156:TRP:O	7:C4:160:ILE:HG12	2.17	0.44
7:C4:358:LYS:CA	7:C4:462:LYS:HZ2	2.29	0.44
7:C8:380:GLU:HA	7:C8:383:LYS:HE2	2.00	0.44
7:C9:156:TRP:HA	7:C9:159:GLU:OE2	2.18	0.44
7:C9:410:GLU:OE2	7:C9:410:GLU:N	2.27	0.44
3:CB:52:ASN:OD1	3:CB:62:ARG:NH1	2.50	0.44
3:CB:87:PRO:HA	3:CB:90:PHE:CD2	2.53	0.44
3:CB:134:GLN:HB2	3:CB:167:PHE:CE1	2.49	0.44
3:CB:255:VAL:HA	4:CC:407:TRP:NE1	2.33	0.44
4:CC:28:HIS:HA	4:CC:243:ARG:NH2	2.33	0.44
4:CC:47:ASP:HB3	4:CC:49:PHE:CE2	2.52	0.44
4:CE:88:HIS:CE1	4:CE:121:ARG:HH22	2.36	0.44
4:CE:215:ARG:NH2	4:CE:299:ALA:O	2.48	0.44
3:CF:375:GLN:HA	3:CF:378:PHE:CE1	2.52	0.44
4:CG:6:SER:HB3	4:CG:65:ALA:HB2	2.00	0.44
4:CG:32:PRO:O	4:CG:85:GLN:NE2	2.50	0.44
3:CH:109:GLY:O	3:CH:113:VAL:HG13	2.18	0.44
3:CH:137:HIS:O	3:CH:168:SER:HA	2.18	0.44
4:CI:143:GLY:HA3	4:CI:147:SER:N	2.32	0.44
4:CI:244:PHE:HB2	4:CI:356:ASN:HD21	1.83	0.44
4:CI:323:VAL:HG22	4:CI:373:ARG:HG2	1.99	0.44
3:CJ:13:GLY:HA2	3:CJ:16:ILE:HB	2.00	0.44
3:CJ:52:ASN:OD1	3:CJ:62:ARG:NH1	2.46	0.44
3:CL:117:LEU:HB3	3:CL:121:ARG:NH2	2.33	0.44
3:CL:130:LEU:HB2	3:CL:162:ARG:NH1	2.33	0.44
3:CL:324:LYS:HE2	4:CM:222:PRO:CG	2.48	0.44
4:CM:221:ARG:O	15:H6:33:ASN:HB3	2.18	0.44
7:Ca:394:LYS:HB3	7:Ca:394:LYS:HE3	1.87	0.44
7:Ca:414:ASP:O	7:Ca:418:LEU:HG	2.17	0.44
7:Cc:309:LEU:HD23	7:Cc:312:GLN:HE22	1.82	0.44
7:Cc:355:VAL:HA	7:Cc:358:LYS:HD3	1.99	0.44
6:D:188:ILE:O	6:D:192:LYS:HG2	2.18	0.44
8:D3:388:LEU:HA	8:D3:391:LEU:HD12	2.00	0.44
8:D7:115:SER:HB2	11:F1:474:LYS:HG2	2.00	0.44
8:D7:332:GLN:CD	8:D8:78:ARG:HH12	2.25	0.44
8:D8:322:LEU:HB2	8:D8:412:LEU:HD21	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:D9:57:PHE:HB3	8:D9:61:TYR:CE2	2.53	0.44
8:D9:199:ASP:O	8:D9:203:LEU:HG	2.17	0.44
3:DB:228:LEU:O	3:DB:232:THR:HG23	2.18	0.44
4:DC:220:GLU:O	4:DC:221:ARG:NE	2.46	0.44
3:DF:7:LEU:HD13	3:DF:64:VAL:HB	1.99	0.44
3:DF:324:LYS:HG3	4:DG:221:ARG:NH1	2.32	0.44
3:DH:324:LYS:HE2	4:DI:222:PRO:CD	2.47	0.44
4:DI:166:LYS:HB3	4:DI:168:GLU:OE2	2.18	0.44
4:DI:262:TYR:CE1	3:DJ:393:ALA:HA	2.53	0.44
4:DI:263:PRO:O	4:DI:264:ARG:HB2	2.18	0.44
3:DJ:173:PRO:HD2	3:DJ:205:GLU:CD	2.43	0.44
4:DK:51:THR:HG23	4:DK:52:PHE:CD2	2.53	0.44
4:DK:321:GLY:N	4:DK:356:ASN:O	2.38	0.44
3:DL:410:GLU:HA	3:DL:413:SER:HB3	1.99	0.44
10:E2:20:LEU:HB2	10:E2:22:PHE:CE1	2.53	0.44
10:E2:53:PRO:HG2	10:E2:58:ALA:HA	2.00	0.44
4:EA:166:LYS:N	4:EA:199:ASP:OD2	2.50	0.44
4:EA:295:CYS:HB2	4:EA:377:MET:HG2	1.99	0.44
3:EB:331:LEU:HD11	4:EC:176:GLN:OE1	2.18	0.44
4:EC:50:ASN:OD1	4:EC:51:THR:N	2.51	0.44
4:EE:16:ILE:HG22	4:EE:228:ASN:OD1	2.18	0.44
4:EE:143:GLY:HA3	4:EE:147:SER:H	1.81	0.44
3:EF:20:PHE:CE2	3:EF:24:ILE:HD11	2.52	0.44
4:EI:208:ALA:H	4:EI:304:LYS:NZ	2.14	0.44
4:EI:261:PRO:HA	3:EJ:394:PHE:CE1	2.52	0.44
3:EJ:223:GLY:O	3:EJ:227:HIS:N	2.46	0.44
3:EJ:392:LYS:O	3:EJ:395:LEU:HD22	2.18	0.44
4:EK:104:ALA:HA	4:EK:107:HIS:HB3	2.00	0.44
4:EK:274:PRO:HG3	4:EK:374:ALA:HA	1.99	0.44
3:EL:47:ILE:HG12	3:EL:59:TYR:CD2	2.52	0.44
11:F2:460:ASN:O	11:F2:464:ILE:HG12	2.18	0.44
11:F4:291:SER:OG	11:F4:292:ILE:N	2.51	0.44
11:F6:155:GLU:OE2	11:Fb:129:GLN:HG2	2.18	0.44
11:F6:429:THR:O	11:F6:433:ARG:HG2	2.17	0.44
11:F7:162:ARG:HB3	11:F7:311:ARG:NH1	2.33	0.44
11:F8:213:LYS:O	11:F8:217:ARG:HG3	2.18	0.44
11:F8:423:ILE:O	11:F8:426:THR:HB	2.18	0.44
4:FC:8:HIS:CE1	4:FC:21:TRP:CH2	3.05	0.44
4:FC:11:GLN:OE1	39:FC:501:GTP:O3A	2.36	0.44
4:FC:88:HIS:CE1	4:FC:90:GLU:HG2	2.53	0.44
4:FC:280:LYS:HA	4:FC:280:LYS:HD2	1.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FC:327:ASP:OD1	4:FC:328:VAL:N	2.51	0.44
4:FE:172:TYR:HB2	4:FE:203:MET:HB2	2.00	0.44
4:FE:290:GLU:O	4:FE:294:ALA:N	2.47	0.44
3:FH:323:MET:HE2	4:FI:224:TYR:CG	2.52	0.44
3:FJ:186:THR:HG21	3:FJ:385:PHE:HD2	1.82	0.44
3:FJ:295:ASP:HB2	3:FJ:298:ASN:HB2	1.98	0.44
4:FK:201:ALA:HB3	4:FK:267:PHE:CD1	2.52	0.44
4:FK:216:ASN:ND2	4:FK:275:VAL:O	2.50	0.44
3:FL:271:ALA:HB3	3:FL:365:ALA:N	2.33	0.44
11:Fc:329:SER:O	11:Fc:332:MET:HG3	2.18	0.44
11:Fc:356:LYS:O	11:Fc:359:THR:OG1	2.26	0.44
11:Fl:152:TRP:O	11:Fl:156:LEU:HG	2.18	0.44
11:Fm:337:THR:O	11:Fm:341:LEU:HG	2.17	0.44
11:Fm:430:LEU:HA	11:Fm:433:ARG:HG2	1.98	0.44
12:G:313:LEU:HD13	3:GF:362:LYS:HZ1	1.82	0.44
13:G3:407:LYS:HB3	13:G3:412:MET:HE1	1.99	0.44
14:G4:338:LEU:HB3	14:G4:364:TYR:OH	2.18	0.44
14:G4:575:LYS:HA	14:G4:734:ARG:NH1	2.31	0.44
14:G4:590:THR:HG21	14:G4:594:LEU:HB3	1.98	0.44
14:G4:591:MET:HB2	14:G4:593:LYS:NZ	2.32	0.44
14:G4:680:ARG:HD2	14:G4:680:ARG:HA	1.77	0.44
14:G5:482:LYS:HE2	14:G5:482:LYS:HB2	1.77	0.44
14:G6:360:THR:HB	14:G6:364:TYR:CE2	2.53	0.44
4:GC:139:HIS:CE1	4:GC:170:ALA:HB2	2.52	0.44
4:GC:262:TYR:CE1	3:GD:393:ALA:HA	2.53	0.44
3:GD:267:MET:O	3:GD:368:ILE:HD12	2.18	0.44
3:GD:290:THR:HG21	3:GD:329:GLN:HB3	1.99	0.44
3:GD:346:PRO:HG2	4:GE:394:LYS:NZ	2.33	0.44
4:GE:45:GLY:HA2	4:GE:55:GLU:O	2.17	0.44
3:GF:99:ASN:HB3	39:GF:501:GTP:O3B	2.18	0.44
3:GF:118:ASP:C	3:GF:122:LYS:HZ3	2.26	0.44
3:GF:361:LEU:HD11	3:GF:364:SER:HB3	1.99	0.44
4:GG:3:GLU:CD	4:GG:131:GLY:H	2.26	0.44
4:GG:313:MET:HG3	4:GG:344:VAL:HG21	2.00	0.44
3:GH:130:LEU:HB2	3:GH:162:ARG:HH11	1.81	0.44
4:GI:16:ILE:CG2	39:GI:501:GTP:HN1	2.30	0.44
3:GJ:391:ARG:C	3:GJ:392:LYS:HG3	2.42	0.44
4:GK:88:HIS:CE1	4:GK:90:GLU:HG2	2.52	0.44
15:H1:237:ARG:HD2	15:H1:238:ASP:N	2.32	0.44
15:H3:37:ARG:HA	15:H3:37:ARG:NE	2.33	0.44
15:H5:227:ARG:NE	15:H5:246:ASP:OD2	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HA:176:GLN:NE2	4:HA:177:VAL:HG23	2.32	0.44
4:HA:185:TYR:CE2	4:HA:398:MET:HE1	2.53	0.44
3:HB:206:ALA:O	3:HB:210:ILE:HG12	2.17	0.44
3:HB:217:LEU:O	3:HB:219:THR:N	2.51	0.44
4:HC:23:LEU:HD11	4:HC:229:ARG:HA	1.98	0.44
3:HD:246:LEU:HB3	3:HD:353:VAL:O	2.17	0.44
4:HE:10:GLY:HA2	4:HE:145:THR:OG1	2.18	0.44
3:HF:101:TRP:CE3	3:HF:187:LEU:HD13	2.53	0.44
3:HF:218:THR:H	23:M:122:PHE:HZ	1.64	0.44
3:HF:324:LYS:HD2	4:HG:221:ARG:HA	1.98	0.44
4:HG:368:LEU:HD23	4:HG:368:LEU:H	1.82	0.44
3:HH:233:MET:O	3:HH:236:VAL:HG12	2.18	0.44
3:HH:324:LYS:HE2	4:HI:222:PRO:HG2	1.98	0.44
3:HJ:324:LYS:HG3	4:HK:221:ARG:NH1	2.33	0.44
4:HK:255:PHE:O	4:HK:259:LEU:HB2	2.18	0.44
4:HK:296:PHE:HE2	4:HK:335:ILE:HD13	1.82	0.44
4:HK:322:ASP:OD2	4:HK:373:ARG:NH2	2.50	0.44
3:HL:305:PRO:HA	3:HL:373:ALA:HB2	2.00	0.44
17:I2:56:GLY:O	17:I2:60:SER:N	2.47	0.44
4:IA:255:PHE:O	4:IA:259:LEU:HB2	2.17	0.44
3:IB:309:ARG:O	3:IB:371:SER:OG	2.25	0.44
4:IC:105:ARG:HG2	4:IC:109:THR:HG21	1.99	0.44
3:ID:262:ARG:NH2	3:ID:418:LEU:HD22	2.32	0.44
4:IE:196:GLU:OE1	4:IE:196:GLU:N	2.33	0.44
4:IE:389:ALA:HA	4:IE:392:ASP:OD2	2.17	0.44
3:IF:304:ASP:O	3:IF:307:HIS:ND1	2.48	0.44
4:IG:311:LYS:NZ	4:IG:343:PHE:O	2.48	0.44
4:IG:346:TRP:HH2	4:IG:435:VAL:HA	1.82	0.44
3:IH:12:CYS:HA	3:IH:15:GLN:OE1	2.17	0.44
4:II:105:ARG:O	4:II:109:THR:OG1	2.25	0.44
4:II:423:GLU:HA	4:II:426:ALA:HB3	2.00	0.44
4:II:423:GLU:O	4:II:427:ALA:N	2.38	0.44
3:IJ:75:SER:O	3:IJ:79:GLY:N	2.51	0.44
3:IJ:247:ASN:HB3	3:IJ:252:LYS:HG2	1.99	0.44
3:IJ:269:GLY:O	3:IJ:367:PHE:N	2.35	0.44
4:IK:297:GLU:CD	4:IK:299:ALA:H	2.26	0.44
3:IL:47:ILE:HG12	3:IL:59:TYR:CD2	2.52	0.44
4:IM:245:ASP:OD1	4:IM:249:ASN:ND2	2.48	0.44
4:IM:426:ALA:HA	4:IM:429:GLU:HG3	1.99	0.44
18:J:96:LEU:CD2	3:JH:357:PRO:HD2	2.47	0.44
19:J3:43:SER:O	19:J3:46:HIS:ND1	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:JA:208:ALA:N	4:JA:304:LYS:HZ1	2.15	0.44
3:JB:137:HIS:O	3:JB:168:SER:HA	2.18	0.44
4:JC:154:MET:HA	4:JC:157:LEU:HG	1.99	0.44
4:JC:208:ALA:N	4:JC:304:LYS:HZ1	2.07	0.44
4:JE:182:VAL:O	4:JE:185:TYR:HB2	2.18	0.44
4:JI:70:LEU:HB2	4:JI:145:THR:HG21	1.98	0.44
4:JI:182:VAL:O	4:JI:185:TYR:HB2	2.17	0.44
3:JJ:4:ILE:HG12	3:JJ:131:GLN:OE1	2.18	0.44
3:JL:106:TYR:HB2	3:JL:401:GLU:OE2	2.17	0.44
21:K1:396:PRO:HA	21:K1:399:ARG:HB3	1.99	0.44
21:K3:188:CYS:O	21:K3:189:GLU:C	2.61	0.44
4:KA:123:ARG:HA	4:KA:126:ALA:HB3	2.00	0.44
4:KA:329:ASN:HA	4:KA:332:ILE:HG12	2.00	0.44
3:KB:6:HIS:HB2	3:KB:134:GLN:NE2	2.33	0.44
4:KC:220:GLU:O	4:KC:221:ARG:NE	2.47	0.44
3:KD:31:ASP:OD1	3:KD:35:THR:N	2.51	0.44
3:KF:39:ASP:N	3:KF:39:ASP:OD1	2.50	0.44
3:KF:138:SER:HB2	3:KF:169:VAL:HG12	1.99	0.44
3:KH:8:GLN:HB2	3:KH:65:LEU:HA	2.00	0.44
3:KH:47:ILE:HG13	3:KH:51:TYR:HB2	1.99	0.44
3:KH:199:THR:N	3:KH:264:HIS:O	2.51	0.44
4:KI:280:LYS:HD2	4:KI:280:LYS:HA	1.71	0.44
3:KJ:375:GLN:HA	3:KJ:378:PHE:CE1	2.53	0.44
4:KK:91:GLN:HB3	4:KK:121:ARG:HH21	1.82	0.44
4:KK:133:GLN:HB3	4:KK:252:LEU:HD21	1.99	0.44
3:KL:111:GLU:OE1	3:KL:111:GLU:N	2.50	0.44
22:L3:128:LYS:CE	4:MK:214:ARG:HG2	2.48	0.44
22:L3:163:GLU:O	22:L3:167:LYS:N	2.30	0.44
4:LA:70:LEU:HA	4:LA:95:GLY:HA3	2.00	0.44
4:LA:148:GLY:O	4:LA:151:SER:OG	2.36	0.44
4:LA:265:ILE:HD12	4:LA:432:TYR:CE1	2.53	0.44
4:LC:252:LEU:HD12	4:LC:253:THR:N	2.33	0.44
3:LD:11:GLN:HE21	39:LD:501:GTP:H3'	1.81	0.44
3:LD:392:LYS:NZ	28:O1:82:THR:HG22	2.32	0.44
4:LE:311:LYS:NZ	4:LE:343:PHE:O	2.47	0.44
4:LG:11:GLN:HG3	39:LG:501:GTP:O1B	2.17	0.44
4:LG:35:GLN:HG2	4:LG:59:GLY:O	2.18	0.44
3:LH:350:LYS:HE3	4:LI:180:ALA:HA	2.00	0.44
3:LH:378:PHE:CD1	3:LH:419:VAL:HG22	2.53	0.44
4:LI:47:ASP:HB3	4:LI:49:PHE:CE2	2.53	0.44
4:LK:239:THR:OG1	4:LK:243:ARG:NH1	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:LK:271:THR:HA	4:LK:302:MET:HE1	2.00	0.44
4:LK:427:ALA:HA	4:LK:430:LYS:HG2	1.98	0.44
3:LL:28:HIS:ND1	3:LL:43:GLN:HB2	2.33	0.44
3:LL:266:PHE:HD1	3:LL:370:ASN:HB2	1.83	0.44
3:MD:20:PHE:HA	3:MD:230:SER:HB2	1.99	0.44
4:ME:81:GLY:O	4:ME:84:ARG:NH1	2.51	0.44
4:ME:156:ARG:HH22	26:N2:98:THR:HB	1.81	0.44
3:MF:66:VAL:HA	3:MF:91:VAL:O	2.17	0.44
4:MG:35:GLN:HG2	4:MG:59:GLY:O	2.18	0.44
3:MH:19:LYS:NZ	3:MH:223:GLY:O	2.51	0.44
4:MK:207:GLU:OE1	4:MK:304:LYS:HE2	2.17	0.44
4:MM:116:ASP:N	4:MM:116:ASP:OD1	2.49	0.44
4:MM:397:LEU:O	4:MM:401:LYS:HE2	2.18	0.44
26:N4:139:HIS:HE1	3:WL:362:LYS:HD2	1.82	0.44
4:NA:269:LEU:HD11	4:NA:384:ILE:HG21	1.99	0.44
4:NA:329:ASN:OD1	4:NA:330:ALA:N	2.51	0.44
3:NB:247:ASN:HB3	3:NB:252:LYS:HG2	1.99	0.44
3:NB:324:LYS:HD3	4:NC:210:TYR:CE1	2.53	0.44
4:NC:104:ALA:O	4:NC:108:TYR:N	2.47	0.44
4:NE:174:ALA:HB1	4:NE:207:GLU:OE2	2.18	0.44
4:NE:280:LYS:HA	4:NE:283:HIS:CE1	2.52	0.44
4:NG:105:ARG:O	4:NG:109:THR:OG1	2.28	0.44
4:NG:119:LEU:HB3	4:NG:123:ARG:NH2	2.31	0.44
4:NG:174:ALA:HB3	4:NG:177:VAL:O	2.18	0.44
4:NG:196:GLU:HG2	4:NG:197:HIS:ND1	2.33	0.44
3:NH:66:VAL:HA	3:NH:91:VAL:O	2.18	0.44
4:NI:102:ASN:OD1	4:NI:104:ALA:N	2.50	0.44
4:NI:161:TYR:HB3	4:NI:164:LYS:NZ	2.33	0.44
4:NK:245:ASP:O	4:NK:356:ASN:ND2	2.50	0.44
3:NL:137:HIS:O	3:NL:168:SER:HA	2.18	0.44
3:NL:345:ILE:HD12	3:NL:346:PRO:HD2	2.00	0.44
28:O1:75:PRO:HA	28:O1:95:TRP:CZ2	2.52	0.44
4:OA:260:VAL:O	3:OB:397:TRP:HH2	2.01	0.44
4:OC:260:VAL:O	3:OD:397:TRP:HH2	2.00	0.44
4:OE:318:LEU:O	4:OE:375:VAL:HA	2.18	0.44
3:OH:3:GLU:HB2	3:OH:62:ARG:NH2	2.33	0.44
3:OH:37:HIS:HA	37:YN:64:ARG:HH22	1.83	0.44
3:OH:245:GLN:HG3	4:OI:11:GLN:HE22	1.82	0.44
4:OI:53:PHE:HB3	4:OI:61:HIS:HB3	1.99	0.44
4:OI:324:VAL:HG21	3:OJ:219:THR:HG22	2.00	0.44
3:OJ:51:TYR:CD1	3:OJ:61:PRO:HA	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:OK:175:PRO:O	4:OK:390:ARG:HD3	2.18	0.44
27:P:312:ARG:O	27:P:316:LYS:HG3	2.17	0.44
29:P1:15:GLU:CD	29:P1:15:GLU:H	2.25	0.44
29:P1:354:LYS:HZ3	29:P1:374:ASN:H	1.65	0.44
29:P3:107:LEU:HB3	29:P3:140:TRP:CZ3	2.52	0.44
3:PB:394:PHE:HA	3:PB:397:TRP:HZ3	1.82	0.44
4:PC:117:LEU:O	4:PC:121:ARG:HG2	2.17	0.44
4:PE:285:GLN:NE2	4:PE:286:LEU:O	2.51	0.44
3:PF:3:GLU:OE2	3:PF:127:CYS:HB2	2.18	0.44
4:PG:102:ASN:ND2	4:PG:411:GLU:OE2	2.43	0.44
4:PG:118:VAL:HA	4:PG:121:ARG:HG2	1.99	0.44
3:PH:8:GLN:NE2	3:PH:17:GLY:HA3	2.33	0.44
3:PH:187:LEU:HD21	3:PH:408:PHE:HE1	1.82	0.44
4:PI:411:GLU:OE2	4:PI:413:MET:HE1	2.18	0.44
3:PJ:230:SER:O	3:PJ:234:SER:N	2.47	0.44
3:PJ:375:GLN:HA	3:PJ:378:PHE:CE1	2.52	0.44
3:PL:350:LYS:HE3	4:PM:181:VAL:H	1.82	0.44
30:Q1:1376:ARG:HH11	30:Q1:1379:SER:HG	1.60	0.44
30:Q1:1452:ARG:HB3	30:Q1:1453:PRO:HD3	1.99	0.44
30:Q3:1389:LYS:HD3	30:Q3:1390:ASN:CG	2.43	0.44
4:QC:11:GLN:O	4:QC:14:VAL:HG22	2.17	0.44
4:QC:119:LEU:HD23	4:QC:122:ILE:HD11	1.98	0.44
3:QD:32:PRO:HA	3:QD:81:PHE:CE1	2.53	0.44
3:QD:52:ASN:ND2	3:QD:62:ARG:HD3	2.31	0.44
3:QD:327:ASP:O	3:QD:331:LEU:HD23	2.17	0.44
4:QE:196:GLU:OE1	4:QE:196:GLU:N	2.46	0.44
3:QF:152:ILE:HD12	3:QF:195:ASN:HB2	2.00	0.44
3:QF:215:LEU:O	3:QF:276:ARG:NH1	2.51	0.44
4:QG:104:ALA:HA	4:QG:107:HIS:HB3	2.00	0.44
3:QH:412:GLU:HA	3:QH:415:MET:HE2	2.00	0.44
4:QI:286:LEU:HD11	4:QI:373:ARG:H	1.81	0.44
3:QJ:240:LEU:HD22	3:QJ:248:ALA:HB1	1.99	0.44
4:QK:22:GLU:HA	4:QK:83:TYR:CE2	2.50	0.44
4:QK:88:HIS:CE1	4:RK:280:LYS:HZ3	2.35	0.44
4:QK:399:TYR:OH	4:QK:415:GLU:HB2	2.18	0.44
3:QL:152:ILE:HA	3:QL:155:ILE:HG12	1.99	0.44
4:QM:185:TYR:CE2	4:QM:398:MET:HE1	2.53	0.44
4:QM:196:GLU:HG2	4:QM:197:HIS:ND1	2.33	0.44
3:RB:164:MET:HE3	3:RB:197:ASP:N	2.32	0.44
4:RE:229:ARG:NH1	4:RE:233:GLN:HB2	2.33	0.44
4:RE:252:LEU:HA	4:RE:255:PHE:CD2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:RG:172:TYR:HB2	4:RG:203:MET:HB3	2.00	0.44
4:RG:287:SER:N	4:RG:290:GLU:OE2	2.51	0.44
4:RG:318:LEU:O	4:RG:375:VAL:HA	2.17	0.44
4:RI:2:ARG:HA	4:RI:133:GLN:NE2	2.32	0.44
4:RK:329:ASN:HA	4:RK:332:ILE:HG12	2.00	0.44
3:SB:12:CYS:O	3:SB:16:ILE:HG12	2.18	0.44
4:SC:83:TYR:HB3	4:SC:86:LEU:HD12	1.99	0.44
3:SD:270:PHE:H	3:SD:300:MET:HE1	1.81	0.44
4:SE:260:VAL:HG23	4:SE:265:ILE:O	2.18	0.44
3:SF:39:ASP:N	3:SF:39:ASP:OD1	2.51	0.44
3:SF:77:ARG:O	3:SF:77:ARG:NH1	2.45	0.44
3:SF:81:PHE:O	3:SF:84:ILE:HG22	2.18	0.44
3:SF:87:PRO:HA	3:SF:90:PHE:CD2	2.52	0.44
3:SF:318:ARG:HD3	3:SF:358:PRO:HG3	1.98	0.44
4:SG:223:THR:OG1	4:SG:225:THR:OG1	2.28	0.44
4:SG:280:LYS:HD2	4:SG:280:LYS:HA	1.77	0.44
3:SH:52:ASN:CG	3:SH:62:ARG:HD3	2.43	0.44
4:SI:172:TYR:CD1	4:SI:173:PRO:HD2	2.52	0.44
4:SI:208:ALA:H	4:SI:304:LYS:NZ	2.13	0.44
4:SI:209:ILE:HG23	4:SI:230:LEU:HD13	2.00	0.44
3:SJ:258:VAL:HB	4:SK:407:TRP:HZ2	1.83	0.44
3:SJ:299:MET:HE1	3:SJ:303:CYS:C	2.43	0.44
4:SK:186:ASN:OD1	4:SK:187:SER:N	2.51	0.44
4:SK:280:LYS:HD2	4:SK:280:LYS:HA	1.73	0.44
3:SL:51:TYR:CD1	3:SL:61:PRO:HA	2.52	0.44
3:SL:206:ALA:O	3:SL:210:ILE:HG12	2.17	0.44
3:SL:282:ARG:HE	3:SL:288:GLU:CD	2.24	0.44
4:SM:174:ALA:HB3	4:SM:177:VAL:O	2.17	0.44
32:T:334:ARG:HA	32:T:337:MET:CB	2.47	0.44
3:TB:151:LEU:HD22	3:TB:154:LYS:HZ1	1.81	0.44
3:TB:404:ASP:OD1	3:TB:404:ASP:N	2.48	0.44
4:TC:430:LYS:HA	4:TC:433:GLU:OE1	2.16	0.44
4:TE:260:VAL:HG23	4:TE:265:ILE:O	2.18	0.44
3:TF:15:GLN:HB2	3:TF:222:TYR:HE2	1.82	0.44
4:TG:67:PHE:O	4:TG:93:ILE:N	2.50	0.44
4:TG:113:GLU:N	4:TG:113:GLU:OE1	2.51	0.44
4:TG:208:ALA:H	4:TG:304:LYS:HZ1	1.64	0.44
4:TG:272:TYR:CZ	4:TG:274:PRO:HG2	2.52	0.44
4:TG:390:ARG:HA	4:TG:393:HIS:CD2	2.52	0.44
4:TK:346:TRP:HH2	4:TK:435:VAL:HA	1.82	0.44
4:TM:174:ALA:HB3	4:TM:177:VAL:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:U:274:LEU:O	33:U:278:HIS:ND1	2.51	0.44
4:UA:36:MET:HG3	4:UA:41:THR:OG1	2.18	0.44
4:UA:271:THR:HA	4:UA:302:MET:HE1	1.99	0.44
3:UB:91:VAL:HG11	3:UB:116:VAL:HG12	1.99	0.44
3:UB:309:ARG:O	3:UB:371:SER:OG	2.23	0.44
4:UC:70:LEU:HA	4:UC:95:GLY:HA3	2.00	0.44
4:UE:102:ASN:HD22	4:UE:105:ARG:HG3	1.83	0.44
4:UE:405:VAL:O	4:UE:409:VAL:HG22	2.17	0.44
4:UG:76:ASP:OD1	4:UG:79:ARG:NH1	2.50	0.44
4:UG:236:SER:O	4:UG:243:ARG:NH2	2.37	0.44
3:UJ:309:ARG:O	3:UJ:371:SER:OG	2.29	0.44
3:UL:151:LEU:O	3:UL:155:ILE:HG23	2.18	0.44
3:UL:180:VAL:HG22	3:UL:183:TYR:HB2	1.99	0.44
4:VE:54:SER:N	4:VE:62:VAL:O	2.50	0.44
4:VE:174:ALA:HB3	4:VE:177:VAL:O	2.17	0.44
3:VF:100:ASN:HB3	3:VF:103:LYS:HB3	1.99	0.44
3:VH:215:LEU:C	3:VH:276:ARG:HH12	2.25	0.44
3:VH:249:ASP:O	3:VH:252:LYS:HB3	2.17	0.44
4:VI:88:HIS:HB3	4:VI:91:GLN:CG	2.47	0.44
4:VI:212:ILE:HG13	4:VI:215:ARG:HH21	1.82	0.44
4:VI:370:LYS:CB	33:X:478:LEU:HD11	2.47	0.44
3:VJ:235:GLY:O	3:VJ:238:THR:OG1	2.26	0.44
4:VK:98:ASP:O	4:VK:105:ARG:NH2	2.28	0.44
4:VK:278:ALA:O	4:VK:370:LYS:NZ	2.51	0.44
3:VL:285:THR:O	3:VL:288:GLU:HG3	2.18	0.44
3:VL:391:ARG:C	3:VL:392:LYS:HG3	2.43	0.44
33:W:228:LEU:O	33:W:232:MET:HG2	2.18	0.44
4:WA:287:SER:N	4:WA:290:GLU:OE2	2.50	0.44
3:WB:295:ASP:HB2	3:WB:298:ASN:HB2	1.99	0.44
4:WC:172:TYR:HD1	4:WC:203:MET:HG2	1.82	0.44
4:WC:229:ARG:NH1	4:WC:233:GLN:HB2	2.33	0.44
3:WF:32:PRO:HA	3:WF:81:PHE:CE1	2.52	0.44
4:WG:145:THR:HG23	39:WG:501:GTP:O3B	2.18	0.44
4:WG:362:VAL:HA	4:WG:368:LEU:HD11	1.99	0.44
3:WH:234:SER:O	3:WH:238:THR:HG23	2.17	0.44
4:WI:424:ASP:O	4:WI:428:LEU:HD23	2.17	0.44
3:WJ:321:MET:N	3:WJ:321:MET:SD	2.91	0.44
3:WL:132:GLY:HA3	3:WL:163:ILE:HB	1.99	0.44
33:X:426:GLU:HA	33:X:429:ALA:HB3	2.00	0.44
34:XB:78:MET:HG2	34:XB:165:VAL:HG22	2.00	0.44
34:XD:84:LYS:HE3	35:XJ:238:CYS:C	2.42	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:XD:86:TYR:HA	34:XD:107:ASN:HD21	1.81	0.44
35:XH:119:LEU:CB	35:XH:158:HIS:HE1	2.31	0.44
35:XH:140:ALA:HA	35:XH:143:LEU:HG	2.00	0.44
35:XK:184:PHE:HA	35:XK:187:MET:HE1	1.99	0.44
35:XK:224:ALA:O	35:XK:228:ILE:HG13	2.18	0.44
35:XL:179:PRO:CA	35:XL:231:MET:HE2	2.43	0.44
37:YB:41:ARG:NH2	37:YB:44:SER:OG	2.50	0.44
37:YD:27:ALA:O	37:YD:31:HIS:ND1	2.51	0.44
37:YF:140:LEU:O	37:YF:144:VAL:HG23	2.17	0.44
37:YH:76:LEU:O	37:YH:80:CYS:N	2.50	0.44
37:YI:18:PHE:O	37:YI:22:GLN:N	2.51	0.44
37:YI:25:PHE:CE1	37:YI:66:LEU:HD13	2.53	0.44
37:YM:15:TYR:CZ	37:YM:141:ILE:HG21	2.53	0.44
37:YO:72:ILE:O	37:YO:75:GLU:HG2	2.17	0.44
37:YP:26:ILE:HD12	37:YP:134:TYR:CE2	2.52	0.44
37:YT:26:ILE:HG21	37:YT:125:LEU:HD11	1.99	0.44
37:YT:161:LYS:O	37:YT:165:HIS:NE2	2.51	0.44
37:YW:140:LEU:HD12	37:YW:141:ILE:HG13	1.98	0.44
36:Z:214:LYS:O	36:Z:217:GLU:HG3	2.17	0.44
36:Z:275:ILE:O	36:Z:279:VAL:HG23	2.18	0.44
36:Z:307:ASP:O	36:Z:311:GLU:N	2.49	0.44
2:A2:267:GLY:O	2:A2:270:GLU:HG3	2.18	0.44
2:A2:336:ARG:NH1	2:A3:58:ASP:O	2.51	0.44
2:A2:348:VAL:HG12	2:A2:352:LYS:NZ	2.32	0.44
2:A3:38:VAL:CG1	2:A3:42:GLN:HE22	2.31	0.44
4:AC:104:ALA:HB1	4:AC:108:TYR:HD2	1.82	0.44
4:AC:116:ASP:N	4:AC:116:ASP:OD1	2.48	0.44
4:AC:285:GLN:NE2	4:AC:286:LEU:O	2.51	0.44
4:AE:246:GLY:HA3	4:AE:355:ILE:O	2.18	0.44
4:AE:331:ALA:O	4:AE:334:THR:OG1	2.24	0.44
4:AG:15:GLN:HG2	4:AG:16:ILE:N	2.33	0.44
4:AG:245:ASP:OD1	4:AG:357:TYR:HE1	2.01	0.44
3:AJ:8:GLN:HE21	3:AJ:13:GLY:C	2.26	0.44
3:AJ:268:PRO:HD2	3:AJ:301:ALA:HB2	2.00	0.44
4:AK:22:GLU:O	4:AK:26:LEU:HD23	2.18	0.44
4:AM:319:TYR:HB2	4:AM:355:ILE:HD13	2.00	0.44
5:B4:169:ARG:HH12	10:E1:120:ASP:HB3	1.82	0.44
5:B4:270:ARG:HH12	5:B4:274:SER:N	2.15	0.44
5:B5:46:ARG:HH12	5:B6:300:LEU:CA	2.30	0.44
5:B6:69:ASP:HA	5:B6:72:ASN:ND2	2.33	0.44
5:B7:114:ILE:HA	5:B7:117:LEU:HD12	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B7:133:VAL:HG23	5:B7:268:ARG:HH21	1.83	0.44
4:BC:399:TYR:OH	4:BC:415:GLU:HB2	2.18	0.44
3:BD:240:LEU:HD22	3:BD:248:ALA:HB1	1.98	0.44
3:BD:378:PHE:HA	3:BD:381:ILE:HG22	2.00	0.44
4:BE:102:ASN:HD22	4:BE:105:ARG:HG3	1.83	0.44
4:BE:295:CYS:HB2	4:BE:377:MET:HE3	1.99	0.44
4:BE:333:ALA:HA	4:BE:336:LYS:HD2	2.00	0.44
3:BF:205:GLU:HA	3:BF:208:TYR:CD2	2.53	0.44
3:BH:137:HIS:O	3:BH:168:SER:HA	2.18	0.44
4:BI:51:THR:HG23	4:BI:52:PHE:HD2	1.83	0.44
4:BI:79:ARG:HH22	15:H4:19:GLY:N	2.15	0.44
3:BJ:46:ARG:NH2	4:BK:73:THR:HA	2.33	0.44
3:BJ:166:THR:OG1	3:BJ:198:GLU:O	2.26	0.44
3:BJ:359:ARG:NH2	15:H5:4:THR:OG1	2.50	0.44
4:BK:202:PHE:CD1	4:BK:268:PRO:HD2	2.53	0.44
4:BK:260:VAL:O	3:BL:397:TRP:HH2	2.01	0.44
3:BL:173:PRO:O	3:BL:380:ARG:NH2	2.51	0.44
6:C:262:ILE:O	6:C:374:HIS:N	2.42	0.44
6:C:351:ILE:HA	6:C:354:HIS:NE2	2.32	0.44
7:C2:187:GLU:O	7:C2:191:PRO:HD2	2.18	0.44
7:C4:296:VAL:O	7:C4:299:THR:OG1	2.26	0.44
7:C7:194:VAL:O	7:C7:197:GLU:HG3	2.18	0.44
7:C7:447:SER:O	7:C7:451:THR:HG23	2.18	0.44
7:C8:219:LEU:O	7:C8:222:GLU:HB2	2.17	0.44
7:C8:358:LYS:HG2	7:C8:462:LYS:HD3	1.99	0.44
3:CB:324:LYS:HD3	4:CC:210:TYR:HE1	1.83	0.44
4:CC:235:VAL:HA	4:CC:238:ILE:HG12	1.99	0.44
4:CC:244:PHE:CE1	4:CC:358:GLN:HG2	2.53	0.44
3:CD:39:ASP:OD1	3:CD:39:ASP:N	2.50	0.44
4:CE:263:PRO:HB2	4:CE:264:ARG:NH1	2.33	0.44
3:CF:33:THR:HG22	13:G1:340:ARG:CZ	2.48	0.44
4:CG:1:MET:HE3	4:CG:50:ASN:ND2	2.33	0.44
4:CG:113:GLU:N	4:CG:113:GLU:OE1	2.50	0.44
4:CG:224:TYR:O	4:CG:228:ASN:N	2.41	0.44
3:CH:318:ARG:HB3	3:CH:364:SER:OG	2.18	0.44
4:CI:265:ILE:HA	4:CI:267:PHE:CE2	2.53	0.44
3:CJ:319:GLY:N	3:CJ:321:MET:HE1	2.32	0.44
4:CK:254:GLU:O	4:CK:258:ASN:ND2	2.23	0.44
4:CK:424:ASP:O	4:CK:428:LEU:HD23	2.17	0.44
3:CL:276:ARG:NH1	14:G6:326:GLY:HA3	2.33	0.44
3:CL:325:GLU:O	3:CL:329:GLN:HG2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CM:386:GLU:O	4:CM:390:ARG:N	2.43	0.44
8:D4:116:GLU:HB2	8:D4:119:ARG:HH21	1.81	0.44
8:D4:272:ARG:HH22	8:D4:273:LEU:HG	1.83	0.44
8:D7:276:VAL:HG12	8:D7:280:LYS:HZ2	1.83	0.44
8:D9:267:ARG:HA	8:D9:270:ARG:HH21	1.83	0.44
4:DA:271:THR:HB	4:DA:377:MET:HE3	2.00	0.44
3:DB:305:PRO:HA	3:DB:373:ALA:HB2	1.99	0.44
4:DC:12:ALA:HB2	39:DC:501:GTP:H5"	2.00	0.44
4:DC:211:ASP:HA	4:DC:214:ARG:CZ	2.48	0.44
3:DD:12:CYS:SG	39:DD:501:GTP:H5'	2.58	0.44
4:DE:8:HIS:CD2	4:DE:138:PHE:HB2	2.53	0.44
4:DE:16:ILE:HD11	4:DE:138:PHE:HB3	1.99	0.44
4:DE:47:ASP:HB3	4:DE:49:PHE:CE2	2.52	0.44
4:DE:71:GLU:N	4:DE:71:GLU:OE1	2.51	0.44
4:DE:229:ARG:NH1	4:DE:233:GLN:HB2	2.33	0.44
3:DF:240:LEU:HD13	3:DF:248:ALA:HB1	2.00	0.44
4:DG:12:ALA:HB1	39:DG:501:GTP:N3	2.33	0.44
4:DG:331:ALA:O	4:DG:335:ILE:HG12	2.18	0.44
4:DI:208:ALA:N	4:DI:304:LYS:HZ1	2.15	0.44
4:DI:285:GLN:NE2	4:DI:286:LEU:O	2.51	0.44
3:DL:192:LEU:O	3:DL:196:THR:HG22	2.18	0.44
10:E2:25:HIS:CG	10:E2:26:LEU:N	2.85	0.44
10:E2:162:TRP:NE1	10:E2:163:ARG:HH22	2.16	0.44
4:EA:3:GLU:N	4:EA:133:GLN:OE1	2.50	0.44
4:EA:75:VAL:HG22	4:EA:79:ARG:HH21	1.82	0.44
4:EA:139:HIS:CD2	4:EA:170:ALA:HB2	2.52	0.44
3:EB:239:CYS:HA	3:EB:246:LEU:HD11	2.00	0.44
4:EC:67:PHE:O	4:EC:93:ILE:N	2.49	0.44
4:EC:91:GLN:HE21	4:EC:125:LEU:HD11	1.83	0.44
4:EC:325:PRO:HB2	3:ED:208:TYR:OH	2.18	0.44
3:ED:266:PHE:HD1	3:ED:370:ASN:HB2	1.82	0.44
3:EF:176:SER:O	3:EF:178:THR:N	2.50	0.44
4:EI:12:ALA:O	39:EI:501:GTP:N1	2.50	0.44
4:EI:320:ARG:CZ	4:EI:360:PRO:HA	2.48	0.44
3:EJ:229:VAL:O	3:EJ:232:THR:OG1	2.25	0.44
3:EJ:282:ARG:HE	3:EJ:288:GLU:CD	2.24	0.44
3:EJ:407:GLU:HA	3:EJ:410:GLU:OE2	2.17	0.44
4:EK:318:LEU:O	4:EK:375:VAL:HA	2.17	0.44
3:EL:83:GLN:HB3	13:G3:466:PHE:HE1	1.82	0.44
3:EL:239:CYS:SG	3:EL:316:VAL:HG21	2.58	0.44
11:F1:184:VAL:O	11:F1:187:PRO:HD2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:F1:439:ASP:O	11:F1:443:LEU:HG	2.18	0.44
11:F2:365:LEU:HG	11:F2:448:LYS:NZ	2.32	0.44
11:F3:90:TYR:HB2	11:F3:94:ASP:OD2	2.18	0.44
11:F3:295:THR:HA	11:F3:298:LYS:HG2	2.00	0.44
11:F3:315:ILE:HD12	11:F3:318:ARG:HH21	1.83	0.44
11:F4:114:SER:O	11:F4:117:THR:OG1	2.35	0.44
11:F4:248:HIS:O	11:F4:251:GLU:HG3	2.18	0.44
11:F5:105:ASN:OD1	11:F5:106:ALA:N	2.51	0.44
11:F5:123:ILE:O	11:F5:127:LYS:HG2	2.17	0.44
11:F7:427:LEU:HG	11:F7:431:LYS:NZ	2.33	0.44
3:FB:87:PRO:HA	3:FB:90:PHE:CD2	2.53	0.44
4:FC:139:HIS:CD2	4:FC:170:ALA:HB2	2.53	0.44
4:FE:259:LEU:HD21	4:FE:316:CYS:HB2	1.99	0.44
4:FG:16:ILE:HG13	4:FG:17:GLY:N	2.32	0.44
4:FG:34:GLY:HA2	4:FG:86:LEU:HD21	2.00	0.44
4:FG:263:PRO:O	4:FG:264:ARG:HB2	2.17	0.44
4:FG:384:ILE:HB	4:FG:388:TRP:HZ3	1.83	0.44
3:FH:10:GLY:HA2	3:FH:143:THR:OG1	2.18	0.44
3:FH:40:SER:HB3	3:FH:42:LEU:HD23	1.99	0.44
3:FH:329:GLN:O	3:FH:333:VAL:HG22	2.17	0.44
3:FJ:315:ALA:HB2	3:FJ:367:PHE:HD1	1.83	0.44
4:FK:346:TRP:CH2	4:FK:435:VAL:HA	2.53	0.44
4:FK:420:GLU:O	4:FK:424:ASP:N	2.32	0.44
3:FL:150:LEU:O	3:FL:154:LYS:HG2	2.18	0.44
3:FL:192:LEU:O	3:FL:196:THR:HG22	2.17	0.44
11:Fa:404:ASN:OD1	11:Fa:405:VAL:N	2.51	0.44
11:Fb:201:ARG:NH1	11:Fb:207:VAL:H	2.15	0.44
11:Fb:371:ALA:O	11:Fb:375:ILE:HG13	2.17	0.44
11:Fb:406:GLU:HA	11:Fc:296:TRP:CH2	2.53	0.44
11:Fc:226:GLN:HA	11:Fc:229:MET:HE2	2.00	0.44
11:Fe:321:ALA:HA	11:Fe:324:LEU:HD12	1.99	0.44
11:Fe:357:LEU:HD12	11:Fe:455:LEU:HD21	1.99	0.44
11:Ff:188:LEU:O	11:Ff:192:LEU:HG	2.17	0.44
11:Ff:355:ASN:HA	11:Ff:358:GLN:HG2	2.00	0.44
11:Fh:342:ALA:O	11:Fh:346:ARG:HG2	2.18	0.44
11:Fi:335:GLN:O	11:Fi:339:THR:HG23	2.18	0.44
11:Fi:371:ALA:O	11:Fi:375:ILE:HG13	2.18	0.44
11:Fk:356:LYS:O	11:Fk:359:THR:OG1	2.28	0.44
11:Fm:231:LYS:HB2	11:Fm:231:LYS:HE2	1.80	0.44
12:G:346:LEU:HB3	12:G:350:ARG:CZ	2.48	0.44
13:G1:496:ILE:O	13:G1:502:ARG:HD2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:G3:77:LEU:O	13:G3:77:LEU:HD23	2.17	0.44
13:G3:267:TYR:CD2	13:G3:294:ARG:HG3	2.53	0.44
14:G4:436:TYR:CE2	14:G4:507:LEU:HB3	2.49	0.44
4:GA:88:HIS:HB3	4:GA:91:GLN:CG	2.47	0.44
4:GA:98:ASP:O	4:GA:105:ARG:NH2	2.31	0.44
3:GB:180:VAL:HG22	3:GB:183:TYR:HB2	1.99	0.44
4:GC:85:GLN:HG2	4:GC:86:LEU:HD22	1.99	0.44
4:GC:211:ASP:HA	4:GC:214:ARG:CZ	2.48	0.44
3:GD:66:VAL:HA	3:GD:91:VAL:O	2.18	0.44
3:GD:157:GLU:HG2	3:GD:158:GLU:N	2.33	0.44
3:GF:81:PHE:CD1	3:GF:84:ILE:HD12	2.51	0.44
3:GH:15:GLN:NE2	39:GH:501:GTP:HN1	2.15	0.44
4:GI:10:GLY:HA2	4:GI:145:THR:OG1	2.18	0.44
4:GI:54:SER:H	4:GI:62:VAL:H	1.66	0.44
4:GI:208:ALA:H	4:GI:304:LYS:NZ	2.14	0.44
3:GJ:52:ASN:CG	3:GJ:62:ARG:HD3	2.43	0.44
3:GL:310:TYR:HD2	3:GL:341:PHE:CE1	2.36	0.44
12:H:474:GLU:O	12:H:478:ALA:N	2.44	0.44
15:H1:308:TYR:HA	15:H1:311:GLU:CD	2.42	0.44
4:HC:216:ASN:ND2	4:HC:275:VAL:O	2.50	0.44
4:HC:280:LYS:O	4:HC:282:TYR:N	2.51	0.44
4:HG:89:PRO:HD2	4:IG:280:LYS:NZ	2.33	0.44
3:HH:4:ILE:CD1	3:HH:131:GLN:HB2	2.48	0.44
4:HI:315:CYS:O	4:HI:351:PHE:HA	2.17	0.44
4:HI:429:GLU:O	4:HI:432:TYR:N	2.51	0.44
3:HJ:180:VAL:HG23	3:HJ:183:TYR:CD2	2.53	0.44
3:HJ:185:ALA:O	3:HJ:189:VAL:HG22	2.17	0.44
4:HK:56:THR:HG21	4:IK:285:GLN:HB2	2.00	0.44
3:HL:165:ASN:HA	3:HL:198:GLU:HB3	1.99	0.44
17:I1:50:GLN:HG3	17:I1:54:ASN:HD21	1.83	0.44
3:IB:357:PRO:HB3	3:IB:362:LYS:HA	1.99	0.44
4:IC:163:LYS:HA	4:IC:163:LYS:HD3	1.80	0.44
4:IC:311:LYS:H	4:IC:382:THR:HG22	1.81	0.44
4:IC:319:TYR:HB2	4:IC:355:ILE:HD13	2.00	0.44
4:IC:320:ARG:HD3	4:IC:360:PRO:HG3	2.00	0.44
3:ID:102:ALA:HB1	3:ID:401:GLU:OE1	2.17	0.44
3:ID:262:ARG:HD3	3:ID:421:GLU:HG3	2.00	0.44
4:IE:87:PHE:HB3	4:IE:92:LEU:HD21	2.00	0.44
3:IF:152:ILE:O	3:IF:156:ARG:HG2	2.18	0.44
3:IF:266:PHE:HD1	3:IF:370:ASN:OD1	2.01	0.44
3:IH:406:MET:O	3:IH:409:THR:OG1	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:II:66:VAL:HG12	4:II:68:VAL:HG13	2.00	0.44
4:II:352:LYS:HZ3	3:IJ:178:THR:HA	1.83	0.44
3:IJ:131:GLN:HB3	3:IJ:163:ILE:HD12	1.99	0.44
3:IJ:304:ASP:HB3	3:IJ:307:HIS:CE1	2.53	0.44
4:IK:47:ASP:HB3	4:IK:49:PHE:CE2	2.53	0.44
4:IM:214:ARG:HH11	4:IM:215:ARG:HG3	1.83	0.44
3:JB:3:GLU:HB2	3:JB:62:ARG:NH2	2.32	0.44
4:JC:290:GLU:OE1	4:JC:290:GLU:N	2.35	0.44
4:JE:345:ASP:OD1	4:JE:345:ASP:N	2.50	0.44
3:JF:20:PHE:HA	3:JF:230:SER:HB2	1.99	0.44
4:JG:192:HIS:CE1	4:JG:193:THR:HG23	2.53	0.44
4:JG:207:GLU:HB2	4:JG:304:LYS:NZ	2.33	0.44
4:JI:217:LEU:HD13	4:JI:277:SER:HA	1.99	0.44
4:JI:301:GLN:OE1	4:JI:301:GLN:N	2.51	0.44
4:JK:154:MET:HE1	4:JK:197:HIS:HB2	1.98	0.44
4:JK:332:ILE:O	4:JK:336:LYS:HG3	2.18	0.44
21:K1:405:VAL:HG21	24:M1:60:TRP:CB	2.42	0.44
21:K2:153:LEU:HA	21:K2:156:ARG:NH2	2.31	0.44
21:K2:185:ARG:HG3	21:K2:189:GLU:HG2	1.99	0.44
21:K2:371:MET:HB2	21:K2:422:LEU:HD11	2.00	0.44
21:K3:345:GLU:HA	21:K3:348:GLU:HG2	1.98	0.44
21:K4:417:GLN:NE2	21:K4:420:ASP:OD2	2.45	0.44
3:KB:406:MET:O	3:KB:409:THR:OG1	2.28	0.44
3:KD:234:SER:O	3:KD:238:THR:HG23	2.17	0.44
4:KG:423:GLU:O	4:KG:427:ALA:N	2.47	0.44
3:KH:40:SER:HB2	3:KH:43:GLN:HG2	2.00	0.44
3:KH:424:GLN:OE1	31:R2:121:ILE:HG12	2.17	0.44
4:KI:51:THR:HG23	4:KI:52:PHE:HD2	1.83	0.44
4:KI:52:PHE:HZ	4:KI:239:THR:HB	1.83	0.44
4:KI:401:LYS:HA	4:KI:402:ARG:HH11	1.83	0.44
4:KK:419:SER:HA	4:KK:422:ARG:HH21	1.83	0.44
3:KL:102:ALA:O	3:KL:106:TYR:N	2.48	0.44
20:L:39:LEU:HD12	20:L:103:GLN:HB3	1.98	0.44
20:L:149:ASN:OD1	20:L:197:GLN:NE2	2.50	0.44
22:L2:106:ILE:HG12	3:LF:425:TYR:CE1	2.53	0.44
22:L3:219:ASP:OD1	22:L3:223:LYS:NZ	2.49	0.44
22:L4:58:SER:O	22:L4:60:LYS:N	2.49	0.44
22:L4:64:LYS:H	22:L4:68:LYS:HZ2	1.64	0.44
4:LA:165:SER:C	4:LA:166:LYS:HD2	2.43	0.44
4:LA:308:ARG:NE	4:LA:340:THR:O	2.51	0.44
4:LA:331:ALA:O	4:LA:335:ILE:HG12	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LB:30:ILE:HG13	3:LB:36:TYR:CD1	2.53	0.44
3:LD:87:PRO:HA	3:LD:90:PHE:CD2	2.52	0.44
3:LF:31:ASP:OD2	3:LF:33:THR:OG1	2.35	0.44
4:LI:368:LEU:HD23	4:LI:368:LEU:H	1.83	0.44
3:LJ:204:ASN:OD1	3:LJ:205:GLU:N	2.51	0.44
4:LK:174:ALA:HB1	4:LK:207:GLU:OE2	2.18	0.44
4:LK:182:VAL:O	4:LK:185:TYR:HB2	2.18	0.44
4:LK:392:ASP:O	4:LK:396:ASP:N	2.34	0.44
3:MB:8:GLN:HB2	3:MB:65:LEU:HA	2.00	0.44
3:MB:173:PRO:O	3:MB:380:ARG:NH2	2.51	0.44
4:MC:53:PHE:HE1	4:MC:63:PRO:HG3	1.83	0.44
3:MF:261:PRO:HD3	4:MG:406:HIS:CG	2.53	0.44
3:MF:375:GLN:HA	3:MF:378:PHE:CE1	2.53	0.44
4:MG:102:ASN:HD22	4:MG:105:ARG:HG3	1.81	0.44
4:MG:332:ILE:O	4:MG:336:LYS:HG3	2.17	0.44
4:MI:22:GLU:O	4:MI:26:LEU:HD23	2.18	0.44
4:MI:280:LYS:O	4:MI:284:GLU:HB2	2.18	0.44
4:MI:329:ASN:OD1	4:MI:330:ALA:N	2.51	0.44
3:MJ:123:GLU:O	3:MJ:126:SER:OG	2.31	0.44
4:MK:24:TYR:O	4:MK:28:HIS:ND1	2.39	0.44
4:MK:174:ALA:HB3	4:MK:177:VAL:O	2.18	0.44
4:MK:330:ALA:O	4:MK:334:THR:HG23	2.18	0.44
3:NB:310:TYR:HB2	3:NB:341:PHE:CD1	2.53	0.44
4:NC:229:ARG:NH1	4:NC:233:GLN:HB2	2.32	0.44
3:ND:47:ILE:HG13	3:ND:51:TYR:HB2	2.00	0.44
3:ND:213:ARG:HG2	3:ND:297:LYS:HE3	1.99	0.44
4:NE:1:MET:HE2	4:NE:2:ARG:H	1.83	0.44
4:NE:207:GLU:HB2	4:NE:304:LYS:NZ	2.33	0.44
4:NE:285:GLN:NE2	4:NE:286:LEU:O	2.51	0.44
4:NE:286:LEU:HD23	4:NE:286:LEU:H	1.82	0.44
3:NF:152:ILE:HA	3:NF:155:ILE:HG12	2.00	0.44
3:NF:174:LYS:HG3	3:NF:175:VAL:HG12	2.00	0.44
4:NG:102:ASN:HD22	4:NG:105:ARG:HG3	1.83	0.44
4:NG:263:PRO:O	4:NG:264:ARG:HB2	2.17	0.44
4:NG:345:ASP:OD1	4:NG:345:ASP:N	2.51	0.44
3:NH:30:ILE:HG13	3:NH:36:TYR:CD1	2.53	0.44
3:NH:138:SER:HB3	39:NH:501:GTP:H5”	1.99	0.44
4:NK:51:THR:HG23	4:NK:52:PHE:CD2	2.53	0.44
4:NK:196:GLU:HG2	4:NK:197:HIS:ND1	2.33	0.44
3:NL:239:CYS:SG	3:NL:316:VAL:HG11	2.57	0.44
28:O1:54:PRO:HB2	28:O1:57:LYS:HZ2	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:O2:32:ILE:HD11	28:O2:35:HIS:HD2	1.83	0.44
4:OA:135:PHE:HE2	4:OA:166:LYS:HE3	1.83	0.44
4:OC:165:SER:C	4:OC:166:LYS:HD2	2.43	0.44
4:OC:168:GLU:HB2	4:OC:201:ALA:HA	2.00	0.44
4:OC:182:VAL:HA	4:OC:185:TYR:HD2	1.83	0.44
3:OD:318:ARG:C	3:OD:321:MET:HE1	2.43	0.44
4:OE:235:VAL:HA	4:OE:238:ILE:HG12	1.99	0.44
3:OF:150:LEU:O	3:OF:153:SER:OG	2.28	0.44
4:OG:265:ILE:HD12	4:OG:432:TYR:CE1	2.53	0.44
4:OI:6:SER:HA	4:OI:136:LEU:HB2	2.00	0.44
3:OJ:39:ASP:OD1	3:OJ:39:ASP:N	2.50	0.44
4:OK:52:PHE:HZ	4:OK:239:THR:HB	1.83	0.44
4:OK:208:ALA:H	4:OK:304:LYS:NZ	2.14	0.44
4:OK:214:ARG:NH1	4:OK:215:ARG:HG3	2.32	0.44
4:OK:245:ASP:O	4:OK:356:ASN:ND2	2.51	0.44
3:OL:52:ASN:ND2	3:OL:62:ARG:HD3	2.32	0.44
3:OL:299:MET:HE1	3:OL:304:ASP:N	2.31	0.44
29:P1:17:GLN:CD	29:P1:615:LYS:HB2	2.42	0.44
29:P1:68:SER:N	29:P1:82:GLY:O	2.35	0.44
29:P3:170:ARG:NH2	29:P3:173:MET:HE3	2.32	0.44
4:PA:331:ALA:O	4:PA:335:ILE:HG12	2.18	0.44
4:PA:389:ALA:HA	4:PA:392:ASP:OD2	2.18	0.44
3:PD:101:TRP:HB2	3:PD:184:ASN:HD22	1.81	0.44
3:PD:198:GLU:HG2	3:PD:266:PHE:CD2	2.53	0.44
4:PI:16:ILE:HG13	4:PI:17:GLY:N	2.32	0.44
4:PK:163:LYS:HA	4:PK:163:LYS:HD3	1.78	0.44
4:PK:319:TYR:HB2	4:PK:355:ILE:HD13	1.98	0.44
4:PM:368:LEU:HD23	4:PM:368:LEU:H	1.83	0.44
3:QB:269:GLY:N	3:QB:367:PHE:O	2.50	0.44
4:QC:396:ASP:HA	4:QC:422:ARG:NH2	2.33	0.44
3:QD:87:PRO:HA	3:QD:90:PHE:CD2	2.53	0.44
4:QE:88:HIS:HB3	4:QE:91:GLN:CG	2.48	0.44
3:QF:173:PRO:O	3:QF:380:ARG:NH2	2.51	0.44
3:QF:324:LYS:HE2	4:QG:222:PRO:CD	2.48	0.44
4:QI:6:SER:HB3	4:QI:65:ALA:HB2	1.99	0.44
4:QI:203:MET:CE	4:QI:267:PHE:HB3	2.44	0.44
3:QJ:320:ARG:NH1	3:QJ:355:ASP:HB2	2.33	0.44
4:QK:105:ARG:O	4:QK:109:THR:OG1	2.27	0.44
3:QL:151:LEU:O	3:QL:155:ILE:HG23	2.18	0.44
4:QM:2:ARG:HA	4:QM:133:GLN:NE2	2.33	0.44
4:QM:116:ASP:N	4:QM:116:ASP:OD1	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:R:195:ALA:O	27:R:199:MET:HE3	2.18	0.44
3:RB:11:GLN:HG3	39:RB:501:GTP:PA	2.57	0.44
3:RB:99:ASN:OD1	3:RB:142:GLY:HA3	2.18	0.44
4:RC:152:LEU:CG	4:RC:156:ARG:HH12	2.27	0.44
4:RE:22:GLU:HG2	4:RE:83:TYR:CE2	2.52	0.44
4:RE:182:VAL:HA	4:RE:185:TYR:HD2	1.83	0.44
4:RE:291:ILE:HD11	4:RE:319:TYR:HE2	1.82	0.44
3:RH:131:GLN:HB3	3:RH:163:ILE:HD12	1.98	0.44
3:RH:158:GLU:OE1	3:RH:158:GLU:N	2.49	0.44
4:RI:2:ARG:HA	4:RI:133:GLN:HE22	1.81	0.44
3:RJ:40:SER:HB3	3:RJ:42:LEU:HD23	1.98	0.44
3:RJ:152:ILE:O	3:RJ:156:ARG:HG2	2.18	0.44
3:RJ:323:MET:SD	3:RJ:323:MET:N	2.89	0.44
4:RK:333:ALA:HA	4:RK:336:LYS:HD2	1.99	0.44
3:RL:282:ARG:NH2	3:RL:292:GLN:OE1	2.29	0.44
4:RM:167:LEU:HD13	4:RM:200:CYS:HB2	2.00	0.44
4:RM:230:LEU:O	4:RM:234:ILE:HG12	2.18	0.44
4:SC:160:ASP:OD1	4:SC:161:TYR:N	2.51	0.44
4:SC:279:GLU:O	4:SC:283:HIS:HD2	2.00	0.44
4:SE:119:LEU:HB3	4:SE:123:ARG:NH2	2.33	0.44
4:SE:256:GLN:O	4:SE:260:VAL:HG12	2.18	0.44
4:SE:312:TYR:HB2	4:SE:343:PHE:HA	2.00	0.44
3:SF:77:ARG:HD3	3:SF:90:PHE:CE2	2.52	0.44
4:SG:202:PHE:CD1	4:SG:268:PRO:HD2	2.53	0.44
4:SG:207:GLU:HB2	4:SG:304:LYS:NZ	2.28	0.44
4:SI:88:HIS:CE1	4:SI:121:ARG:HH22	2.35	0.44
4:SI:274:PRO:HG3	4:SI:374:ALA:HA	2.00	0.44
4:SI:318:LEU:O	4:SI:375:VAL:HA	2.17	0.44
3:SJ:2:ARG:HB3	3:SJ:131:GLN:CD	2.43	0.44
3:SJ:299:MET:HE1	3:SJ:303:CYS:O	2.17	0.44
3:SJ:375:GLN:HA	3:SJ:378:PHE:CE1	2.52	0.44
4:SK:405:VAL:O	4:SK:409:VAL:HG22	2.16	0.44
3:SL:152:ILE:O	3:SL:156:ARG:HG2	2.17	0.44
4:SM:30:ILE:HG13	4:SM:53:PHE:HE2	1.83	0.44
4:SM:46:ASP:OD1	4:SM:50:ASN:ND2	2.46	0.44
4:SM:196:GLU:OE1	4:SM:196:GLU:N	2.46	0.44
3:TB:152:ILE:O	3:TB:156:ARG:HG2	2.17	0.44
3:TB:182:PRO:HB2	3:TB:388:MET:CE	2.45	0.44
4:TC:346:TRP:CH2	4:TC:435:VAL:HA	2.53	0.44
4:TE:47:ASP:HB3	4:TE:49:PHE:CE2	2.53	0.44
4:TG:12:ALA:HB1	39:TG:501:GTP:N3	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TH:48:ASN:HA	3:TH:51:TYR:O	2.18	0.44
3:TH:91:VAL:HG11	3:TH:116:VAL:HG12	1.99	0.44
3:TJ:91:VAL:HG11	3:TJ:116:VAL:HG12	1.98	0.44
3:TJ:173:PRO:HD3	3:TJ:203:ASP:OD1	2.17	0.44
3:TJ:234:SER:O	3:TJ:238:THR:HG23	2.17	0.44
3:TJ:329:GLN:O	3:TJ:333:VAL:HG12	2.17	0.44
4:TK:72:PRO:HA	4:TK:75:VAL:HG12	2.00	0.44
4:TK:203:MET:HE3	4:TK:267:PHE:CD1	2.52	0.44
4:TK:405:VAL:O	4:TK:409:VAL:HG22	2.18	0.44
3:TL:66:VAL:HG13	3:TL:147:MET:SD	2.58	0.44
4:TM:85:GLN:HG2	4:TM:86:LEU:HD12	2.00	0.44
3:TN:152:ILE:HD12	3:TN:195:ASN:HB2	1.99	0.44
33:U:246:ARG:HA	33:U:249:LYS:HG2	1.98	0.44
33:U:336:ALA:O	33:U:340:VAL:HG23	2.17	0.44
4:UA:116:ASP:N	4:UA:116:ASP:OD1	2.48	0.44
4:UA:216:ASN:OD1	4:UA:217:LEU:N	2.51	0.44
3:UB:66:VAL:HA	3:UB:91:VAL:O	2.18	0.44
4:UC:1:MET:O	4:UC:133:GLN:NE2	2.44	0.44
4:UC:10:GLY:O	4:UC:14:VAL:HG13	2.18	0.44
4:UE:12:ALA:HB2	39:UE:501:GTP:H5”	2.00	0.44
4:UE:52:PHE:HZ	4:UE:239:THR:HB	1.82	0.44
3:UF:240:LEU:HD22	3:UF:248:ALA:HB1	2.00	0.44
4:UG:89:PRO:HD2	4:VG:280:LYS:NZ	2.33	0.44
4:UG:264:ARG:O	4:UG:266:HIS:ND1	2.45	0.44
3:UH:199:THR:O	3:UH:266:PHE:N	2.49	0.44
4:UI:46:ASP:OD1	4:UI:50:ASN:ND2	2.49	0.44
3:UJ:317:PHE:O	3:UJ:354:CYS:N	2.28	0.44
4:UK:163:LYS:HA	4:UK:163:LYS:HD3	1.74	0.44
4:UK:217:LEU:HD13	4:UK:277:SER:HA	2.00	0.44
4:UK:318:LEU:O	4:UK:375:VAL:HA	2.18	0.44
3:VB:114:ASP:N	3:VB:114:ASP:OD1	2.47	0.44
3:VB:394:PHE:HA	3:VB:397:TRP:HZ3	1.83	0.44
3:VD:235:GLY:O	3:VD:238:THR:OG1	2.22	0.44
3:VD:324:LYS:HG3	4:VE:221:ARG:NH1	2.33	0.44
4:VE:1:MET:SD	4:VE:2:ARG:N	2.91	0.44
4:VE:188:ILE:HG22	4:VE:421:ALA:HB1	1.99	0.44
4:VE:329:ASN:OD1	4:VE:330:ALA:N	2.51	0.44
3:VF:292:GLN:HA	3:VF:295:ASP:OD2	2.18	0.44
4:VG:12:ALA:HB1	39:VG:501:GTP:N3	2.33	0.44
4:VG:296:PHE:CD2	4:VG:341:ILE:HD11	2.52	0.44
3:VH:11:GLN:HG3	39:VH:501:GTP:PA	2.57	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VH:30:ILE:HG13	3:VH:36:TYR:CD1	2.53	0.44
4:VI:139:HIS:CE1	4:VI:168:GLU:HB2	2.52	0.44
3:VL:306:ARG:O	3:VL:306:ARG:NE	2.43	0.44
4:WA:208:ALA:HA	4:WA:211:ASP:HB2	1.98	0.44
3:WB:4:ILE:HB	3:WB:50:TYR:HE1	1.82	0.44
4:WE:6:SER:HA	4:WE:136:LEU:HB2	2.00	0.44
4:WG:166:LYS:N	4:WG:199:ASP:OD2	2.51	0.44
3:WH:106:TYR:HB2	3:WH:401:GLU:OE2	2.18	0.44
4:WI:201:ALA:HB3	4:WI:267:PHE:HD1	1.82	0.44
4:WK:47:ASP:O	4:WK:50:ASN:N	2.38	0.44
4:WK:69:ASP:OD1	4:WK:70:LEU:N	2.49	0.44
34:XA:20:LYS:NZ	34:XA:22:LEU:HB3	2.33	0.44
34:XB:62:PRO:HG3	34:XB:67:LYS:O	2.16	0.44
34:XB:168:SER:HB2	34:XB:172:TYR:HD2	1.80	0.44
34:XF:78:MET:CG	34:XF:165:VAL:HG22	2.47	0.44
35:XI:85:GLU:HG2	35:XI:86:LYS:HG2	1.99	0.44
35:XK:141:LEU:HD13	35:XK:180:ILE:HG21	1.98	0.44
35:XL:115:ILE:O	35:XL:119:LEU:HG	2.18	0.44
35:XM:143:LEU:HD13	35:XM:148:ILE:HD13	1.99	0.44
35:XM:209:ILE:O	35:XM:212:THR:OG1	2.35	0.44
36:Y:128:ARG:O	36:Y:132:ILE:HG13	2.18	0.44
37:YA:26:ILE:O	37:YA:30:GLU:N	2.41	0.44
37:YE:61:THR:O	37:YE:65:ILE:HG22	2.17	0.44
37:YH:136:GLY:O	37:YH:139:SER:N	2.46	0.44
37:YI:26:ILE:HD12	37:YI:134:TYR:CE1	2.53	0.44
37:YK:22:GLN:NE2	37:YK:23:PHE:HB3	2.32	0.44
37:YM:141:ILE:HB	37:YM:142:PRO:HD3	1.99	0.44
37:YS:43:ILE:HD11	37:YS:134:TYR:HE1	1.83	0.44
37:YT:59:ASN:HB2	37:YT:62:HIS:CE1	2.52	0.44
37:YU:50:GLN:O	37:YU:53:MET:HG3	2.18	0.44
36:Z:387:ARG:HH11	36:Z:391:ILE:HD12	1.81	0.44
2:A2:46:GLU:OE2	5:B4:43:ARG:NH1	2.48	0.44
2:A2:330:ARG:HA	2:A2:334:GLN:HG3	1.99	0.44
2:A3:174:ASP:O	2:A3:178:LYS:HG2	2.18	0.44
2:A3:242:VAL:O	2:A3:246:LEU:HG	2.17	0.44
2:A3:284:LYS:O	2:A3:287:GLU:HG2	2.18	0.44
2:A4:236:THR:O	2:A4:240:THR:HG23	2.18	0.44
4:AC:260:VAL:HG23	4:AC:265:ILE:O	2.17	0.44
3:AD:273:LEU:N	3:AD:292:GLN:HE22	2.07	0.44
3:AD:390:ARG:HA	3:AD:390:ARG:HD2	1.83	0.44
4:AE:150:ALA:HA	4:AE:153:LEU:HD12	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AF:99:ASN:OD1	3:AF:142:GLY:HA3	2.18	0.44
3:AF:131:GLN:HB3	3:AF:163:ILE:HD12	2.00	0.44
4:AG:287:SER:OG	4:AG:290:GLU:OE1	2.29	0.44
3:AJ:240:LEU:HD22	3:AJ:248:ALA:HB1	1.98	0.44
3:AL:272:PRO:HA	3:AL:292:GLN:OE1	2.17	0.44
3:AL:318:ARG:HD3	3:AL:358:PRO:HG3	1.99	0.44
5:B2:373:ILE:O	5:B2:377:ILE:HG12	2.18	0.44
5:B3:69:ASP:HA	5:B3:72:ASN:HD21	1.83	0.44
5:B3:282:GLN:HE21	5:B4:28:ALA:HB3	1.82	0.44
5:B3:331:ARG:NH2	5:B3:336:TYR:OH	2.37	0.44
5:B3:401:ALA:HA	5:B3:404:PHE:HB3	2.00	0.44
5:B4:165:LEU:HD21	5:B4:232:GLU:HB3	2.00	0.44
5:B5:11:ARG:HE	5:B6:130:ARG:NH1	2.16	0.44
5:B6:75:LYS:NZ	10:E3:163:ARG:HB3	2.33	0.44
5:B6:78:LEU:HB3	5:B6:179:LYS:HZ2	1.83	0.44
5:B6:276:TYR:HD2	5:B6:380:LYS:CG	2.30	0.44
5:B7:201:LEU:O	8:D8:216:SER:HB2	2.18	0.44
5:B8:123:ARG:NE	5:B8:124:ARG:H	2.16	0.44
5:B9:380:LYS:HB2	5:B9:380:LYS:HE3	1.83	0.44
3:BB:8:GLN:NE2	3:BB:17:GLY:HA3	2.33	0.44
3:BB:318:ARG:C	3:BB:321:MET:HE1	2.43	0.44
4:BC:327:ASP:OD1	4:BC:328:VAL:N	2.51	0.44
4:BE:272:TYR:CE1	4:BE:374:ALA:HB1	2.53	0.44
3:BF:19:LYS:NZ	3:BF:223:GLY:O	2.48	0.44
4:BG:88:HIS:HE1	4:BG:90:GLU:CD	2.25	0.44
4:BG:176:GLN:NE2	4:BG:177:VAL:HG23	2.32	0.44
4:BG:252:LEU:HD12	4:BG:253:THR:N	2.31	0.44
3:BH:347:ASN:HB3	4:BI:178:SER:HB3	2.00	0.44
4:BI:165:SER:C	4:BI:166:LYS:HD2	2.43	0.44
4:BI:178:SER:OG	4:BI:180:ALA:O	2.36	0.44
3:BJ:3:GLU:HG2	3:BJ:130:LEU:HD23	2.00	0.44
3:BJ:350:LYS:HE3	4:BK:180:ALA:HA	2.00	0.44
3:BJ:378:PHE:CD1	3:BJ:419:VAL:HG22	2.53	0.44
4:BK:22:GLU:HG2	4:BK:83:TYR:CE2	2.53	0.44
3:BL:90:PHE:HB2	14:G6:305:ASN:OD1	2.18	0.44
6:C:40:LEU:HB3	6:C:42:ARG:NH1	2.32	0.44
6:C:72:GLU:N	6:C:72:GLU:OE2	2.49	0.44
7:C3:361:ILE:HG13	7:C3:462:LYS:NZ	2.33	0.44
7:C3:377:MET:HA	7:C3:380:GLU:OE2	2.17	0.44
7:C4:131:LYS:CE	7:C5:430:THR:HG22	2.48	0.44
7:C4:281:VAL:HB	7:C5:394:LYS:CE	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C7:157:LYS:HG3	7:C7:261:LYS:HZ1	1.83	0.44
7:C7:231:GLU:HA	7:C7:234:ARG:NE	2.33	0.44
7:C7:470:GLN:HG3	8:D7:164:HIS:CE1	2.53	0.44
7:C8:433:THR:O	7:C8:437:ARG:HG2	2.18	0.44
7:C9:219:LEU:O	7:C9:222:GLU:HB2	2.17	0.44
3:CB:305:PRO:HA	3:CB:373:ALA:HB2	2.00	0.44
3:CB:310:TYR:HD2	3:CB:341:PHE:HE1	1.65	0.44
4:CC:85:GLN:HG2	4:CC:86:LEU:HD12	2.00	0.44
4:CE:251:ASP:HB3	4:CE:254:GLU:OE1	2.17	0.44
4:CE:254:GLU:OE1	4:CE:254:GLU:N	2.48	0.44
4:CE:396:ASP:OD1	4:CE:397:LEU:N	2.51	0.44
3:CF:113:VAL:HA	3:CF:116:VAL:HG22	2.00	0.44
3:CH:324:LYS:HE2	4:CI:222:PRO:CD	2.48	0.44
4:CI:47:ASP:O	4:CI:50:ASN:N	2.34	0.44
4:CI:329:ASN:OD1	4:CI:330:ALA:N	2.50	0.44
4:CI:387:ALA:O	4:CI:391:LEU:HG	2.17	0.44
4:CK:102:ASN:ND2	4:CK:105:ARG:HG3	2.32	0.44
4:CK:172:TYR:N	4:CK:204:VAL:O	2.39	0.44
4:CK:398:MET:O	4:CK:402:ARG:N	2.51	0.44
4:CM:192:HIS:CE1	4:CM:193:THR:HG23	2.53	0.44
7:Ca:196:ARG:HH12	7:Ca:200:PHE:N	2.15	0.44
7:Ca:232:ARG:O	7:Ca:236:HIS:ND1	2.37	0.44
7:Cc:253:GLU:OE2	7:Cc:310:ARG:NH2	2.51	0.44
7:Cd:257:ASP:OD1	7:Cd:261:LYS:NZ	2.49	0.44
6:D:51:ASP:OD1	6:D:52:GLY:N	2.51	0.44
8:D1:61:TYR:O	8:D1:64:TYR:HB3	2.18	0.44
8:D2:128:THR:HA	8:D2:131:MET:HG2	2.00	0.44
8:D3:257:TRP:O	8:D3:260:PHE:HB2	2.18	0.44
8:D7:84:LEU:HD12	8:D7:85:VAL:N	2.33	0.44
8:D7:103:VAL:O	8:D7:107:LEU:HG	2.17	0.44
8:D7:269:GLU:HG2	8:D7:272:ARG:NH2	2.33	0.44
4:DA:265:ILE:HA	4:DA:267:PHE:CE2	2.53	0.44
3:DB:7:LEU:HB2	3:DB:135:LEU:HG	2.00	0.44
3:DD:423:GLN:O	3:DD:427:ASP:N	2.42	0.44
4:DE:89:PRO:HB2	4:DE:90:GLU:OE1	2.18	0.44
4:DE:145:THR:OG1	39:DE:501:GTP:O1B	2.33	0.44
3:DF:46:ARG:HH22	4:DG:73:THR:HG23	1.82	0.44
3:DF:70:PRO:O	3:DF:74:ASP:N	2.49	0.44
4:DG:229:ARG:NH2	4:DG:367:ASP:H	2.16	0.44
4:DI:288:VAL:O	4:DI:292:THR:OG1	2.28	0.44
3:DJ:12:CYS:O	3:DJ:16:ILE:HG12	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DJ:378:PHE:HA	3:DJ:381:ILE:HG12	1.98	0.44
3:DL:52:ASN:ND2	3:DL:62:ARG:HD3	2.32	0.44
9:E:422:PRO:O	3:IB:360:GLY:HA3	2.18	0.44
3:EB:73:MET:HA	3:EB:76:VAL:HG22	2.00	0.44
3:EB:114:ASP:OD1	3:EB:114:ASP:N	2.47	0.44
4:EC:3:GLU:OE2	4:EC:130:THR:N	2.41	0.44
4:EC:105:ARG:O	4:EC:109:THR:OG1	2.24	0.44
4:EC:338:LYS:NZ	4:EC:339:ARG:HG3	2.33	0.44
3:ED:12:CYS:O	3:ED:16:ILE:HG12	2.18	0.44
3:ED:51:TYR:HB3	3:ED:59:TYR:HB3	2.00	0.44
3:ED:328:GLU:OE1	3:ED:332:ASN:ND2	2.51	0.44
4:EE:54:SER:N	4:EE:62:VAL:O	2.49	0.44
3:EF:46:ARG:HH22	4:EG:73:THR:HG23	1.83	0.44
4:EG:79:ARG:O	4:EG:84:ARG:HG3	2.18	0.44
4:EI:22:GLU:HG2	4:EI:83:TYR:CE2	2.53	0.44
4:EI:265:ILE:HA	4:EI:267:PHE:CE2	2.53	0.44
4:EK:118:VAL:HA	4:EK:121:ARG:HG2	2.00	0.44
3:EL:423:GLN:O	3:EL:427:ASP:N	2.47	0.44
11:F1:248:HIS:HB3	11:F1:252:ARG:NH2	2.33	0.44
11:F3:394:THR:HG22	11:F4:280:PHE:CD2	2.53	0.44
11:F4:224:CYS:O	11:F4:228:GLN:HG3	2.18	0.44
11:F7:390:LYS:HG2	11:F7:393:GLN:NE2	2.33	0.44
11:F9:349:GLU:HA	11:F9:352:ASP:OD2	2.18	0.44
11:F9:385:LYS:O	11:F9:388:PRO:HD2	2.18	0.44
11:F9:455:LEU:HA	11:F9:455:LEU:HD23	1.72	0.44
3:FD:266:PHE:HD1	3:FD:370:ASN:OD1	2.01	0.44
4:FE:246:GLY:HA3	4:FE:355:ILE:O	2.16	0.44
3:FF:7:LEU:HD13	3:FF:64:VAL:HB	1.99	0.44
3:FF:209:ASP:O	3:FF:213:ARG:HG2	2.17	0.44
3:FF:250:LEU:O	3:FF:254:ALA:N	2.33	0.44
3:FH:137:HIS:O	3:FH:168:SER:HA	2.18	0.44
3:FH:324:LYS:O	3:FH:327:ASP:HB3	2.18	0.44
3:FJ:276:ARG:HG2	14:G6:474:GLY:HA2	1.98	0.44
3:FL:119:VAL:HA	3:FL:122:LYS:NZ	2.33	0.44
11:Fa:290:VAL:HG23	11:Fa:291:SER:H	1.82	0.44
11:Fa:449:SER:O	11:Fa:452:GLU:HG3	2.18	0.44
11:Fb:370:GLN:OE1	11:Fc:117:THR:HG21	2.18	0.44
11:Fc:244:ARG:O	11:Fc:247:GLN:HG3	2.17	0.44
11:Ff:412:PRO:HB3	11:Ff:415:ARG:HD2	2.00	0.44
11:Fi:171:ASP:HA	11:Fi:174:LYS:NZ	2.32	0.44
11:Fj:226:GLN:HB3	11:Fj:230:ARG:NH1	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Fk:457:ILE:HD12	11:Fk:457:ILE:H	1.82	0.44
12:G:482:ALA:O	12:G:486:LYS:N	2.46	0.44
13:G1:223:TYR:O	13:G1:224:VAL:HB	2.18	0.44
13:G1:333:LYS:NZ	13:G1:334:PRO:O	2.48	0.44
13:G1:456:VAL:HB	13:G1:459:SER:OG	2.18	0.44
13:G2:172:ILE:HB	13:G2:183:ILE:HD12	2.00	0.44
14:G4:25:HIS:CD2	14:G4:40:LYS:HG3	2.52	0.44
14:G4:328:VAL:O	14:G4:330:GLN:NE2	2.51	0.44
14:G4:530:LEU:HD22	14:G4:604:ARG:NH1	2.33	0.44
14:G4:607:ARG:HG2	14:G4:608:VAL:N	2.33	0.44
14:G5:225:TYR:HB3	14:G5:255:LEU:HB2	2.00	0.44
14:G5:724:MET:HB2	14:G5:725:PRO:HD3	1.98	0.44
14:G6:17:LYS:HG3	14:G6:20:PHE:HZ	1.82	0.44
14:G6:40:LYS:H	14:G6:51:GLN:HE22	1.66	0.44
14:G6:436:TYR:HB2	14:G6:454:ILE:HD11	2.00	0.44
4:GC:11:GLN:HG3	39:GC:501:GTP:O1B	2.17	0.44
3:GD:55:THR:O	3:GD:58:LYS:HE2	2.17	0.44
3:GD:324:LYS:HD2	4:GE:221:ARG:HA	2.00	0.44
3:GD:334:GLN:O	3:GD:338:SER:OG	2.30	0.44
4:GE:2:ARG:NE	4:GE:242:LEU:HG	2.33	0.44
4:GE:188:ILE:HA	4:GE:191:THR:OG1	2.18	0.44
4:GE:327:ASP:OD1	4:GE:328:VAL:N	2.51	0.44
3:GF:266:PHE:HD1	3:GF:370:ASN:HB2	1.83	0.44
4:GG:263:PRO:HB2	4:GG:264:ARG:NH1	2.32	0.44
4:GI:346:TRP:HH2	4:GI:435:VAL:HA	1.83	0.44
3:GL:122:LYS:HG3	25:N:100:ASN:HD21	1.83	0.44
3:GL:375:GLN:HA	3:GL:378:PHE:CE1	2.53	0.44
12:H:466:LYS:O	12:H:470:ARG:HG3	2.18	0.44
4:HA:205:ASP:OD2	4:HA:304:LYS:NZ	2.49	0.44
4:HA:206:ASN:HA	4:HA:209:ILE:HD12	2.00	0.44
4:HC:22:GLU:HG2	4:HC:83:TYR:CE2	2.53	0.44
3:HD:321:MET:SD	3:HD:363:MET:HG3	2.58	0.44
4:HE:34:GLY:HA2	4:HE:86:LEU:HD11	2.00	0.44
4:HE:188:ILE:HD13	4:HE:395:PHE:CD1	2.53	0.44
4:HE:265:ILE:HD12	4:HE:432:TYR:CE1	2.53	0.44
4:HG:66:VAL:HG12	4:HG:68:VAL:HG13	1.99	0.44
4:HG:391:LEU:HB3	4:HG:395:PHE:HE2	1.83	0.44
4:HI:70:LEU:HA	4:HI:95:GLY:HA3	2.00	0.44
4:HK:49:PHE:CD2	4:HK:61:HIS:HE1	2.36	0.44
17:I3:50:GLN:HA	17:I3:53:ARG:NE	2.32	0.44
4:IA:160:ASP:OD1	4:IA:161:TYR:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IB:25:SER:O	3:IB:29:GLY:N	2.50	0.44
3:IB:87:PRO:HD2	4:JA:283:HIS:CE1	2.53	0.44
3:IB:113:VAL:HA	3:IB:116:VAL:HG22	2.00	0.44
4:IC:230:LEU:O	4:IC:233:GLN:HG3	2.17	0.44
4:IC:389:ALA:HA	4:IC:392:ASP:OD2	2.18	0.44
3:ID:357:PRO:O	3:ID:359:ARG:NH1	2.43	0.44
4:IE:287:SER:OG	4:IE:290:GLU:OE1	2.26	0.44
4:IE:318:LEU:O	4:IE:375:VAL:HA	2.18	0.44
3:IF:267:MET:O	3:IF:368:ILE:HD12	2.18	0.44
4:IG:315:CYS:O	4:IG:351:PHE:HA	2.18	0.44
3:IH:42:LEU:O	3:IH:45:GLU:HB3	2.18	0.44
3:IH:284:LEU:HG	3:IH:363:MET:SD	2.58	0.44
4:II:176:GLN:NE2	4:II:177:VAL:HG23	2.33	0.44
3:IJ:218:THR:OG1	3:IJ:219:THR:N	2.51	0.44
3:IJ:263:LEU:HD12	3:IJ:370:ASN:HD21	1.83	0.44
4:IK:34:GLY:HA2	4:IK:86:LEU:HD11	1.99	0.44
4:IK:168:GLU:OE1	4:IK:168:GLU:N	2.51	0.44
4:IM:87:PHE:O	3:JL:281:TYR:OH	2.36	0.44
4:IM:319:TYR:HE2	4:IM:328:VAL:HG13	1.82	0.44
18:J:81:TYR:HA	18:J:84:LEU:HB2	2.00	0.44
3:JB:130:LEU:HB2	3:JB:162:ARG:HH11	1.83	0.44
3:JD:67:ASP:OD2	3:JD:72:THR:OG1	2.36	0.44
3:JD:148:GLY:O	3:JD:152:ILE:HG12	2.18	0.44
3:JH:217:LEU:HD23	3:JH:217:LEU:H	1.83	0.44
3:JH:384:GLN:O	3:JH:388:MET:HG2	2.18	0.44
3:JJ:87:PRO:HA	3:JJ:90:PHE:CD2	2.53	0.44
4:JK:174:ALA:HB3	4:JK:177:VAL:O	2.18	0.44
4:JK:345:ASP:OD1	4:JK:345:ASP:N	2.50	0.44
3:JL:101:TRP:O	3:JL:105:HIS:N	2.49	0.44
21:K3:187:LYS:O	21:K3:188:CYS:C	2.61	0.44
4:KA:16:ILE:HG13	4:KA:17:GLY:N	2.32	0.44
4:KA:172:TYR:N	4:KA:204:VAL:O	2.34	0.44
4:KA:316:CYS:O	4:KA:378:LEU:N	2.47	0.44
3:KB:345:ILE:HD12	3:KB:346:PRO:HD2	2.00	0.44
4:KC:168:GLU:HB2	4:KC:201:ALA:HA	2.00	0.44
3:KD:5:VAL:HB	3:KD:133:PHE:CE1	2.53	0.44
3:KF:272:PRO:HA	3:KF:292:GLN:OE1	2.18	0.44
4:KG:288:VAL:HG11	4:KG:327:ASP:HB2	1.98	0.44
4:KG:424:ASP:O	4:KG:428:LEU:HG	2.18	0.44
3:KH:172:SER:OG	3:KH:205:GLU:OE2	2.21	0.44
4:KI:252:LEU:HA	4:KI:255:PHE:CD2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:KI:356:ASN:OD1	4:KI:358:GLN:HB3	2.17	0.44
4:KI:402:ARG:NH2	31:R2:125:ARG:HB3	2.33	0.44
22:L1:197:LEU:O	22:L1:201:LYS:HG2	2.18	0.44
22:L2:248:LYS:H	36:Y:40:GLN:NE2	2.16	0.44
22:L2:255:LYS:HB2	22:L2:255:LYS:HE2	1.83	0.44
22:L3:221:VAL:N	22:L3:222:PRO:HD2	2.33	0.44
22:L3:222:PRO:O	22:L3:226:ARG:NE	2.51	0.44
3:LB:74:ASP:O	3:LB:78:SER:OG	2.21	0.44
3:LB:111:GLU:OE1	3:LB:111:GLU:N	2.46	0.44
3:LB:182:PRO:HB2	3:LB:388:MET:HE1	1.98	0.44
3:LB:360:GLY:H	27:Q:132:ARG:CZ	2.31	0.44
4:LC:46:ASP:HA	4:LC:50:ASN:HB3	2.00	0.44
4:LC:419:SER:O	4:LC:422:ARG:HG3	2.17	0.44
3:LD:282:ARG:HE	3:LD:288:GLU:CD	2.26	0.44
3:LD:318:ARG:HD3	3:LD:358:PRO:HG3	2.00	0.44
4:LE:273:ALA:HB2	4:LE:295:CYS:HB3	2.00	0.44
4:LG:207:GLU:HB2	4:LG:304:LYS:NZ	2.33	0.44
3:LH:52:ASN:ND2	3:LH:62:ARG:HD3	2.32	0.44
4:LI:89:PRO:HB2	4:LI:90:GLU:OE1	2.18	0.44
4:LI:107:HIS:CD2	4:LI:152:LEU:HB2	2.53	0.44
4:LI:280:LYS:O	4:LI:284:GLU:HB2	2.18	0.44
3:LJ:7:LEU:HD23	3:LJ:135:LEU:HD13	2.00	0.44
3:LJ:113:VAL:HA	3:LJ:116:VAL:HG22	2.00	0.44
3:LJ:251:ARG:HA	3:LJ:254:ALA:HB3	1.98	0.44
3:MB:31:ASP:OD1	3:MB:35:THR:N	2.51	0.44
3:MB:91:VAL:HG11	3:MB:116:VAL:HG12	2.00	0.44
4:MC:189:LEU:HA	4:MC:192:HIS:HD1	1.83	0.44
4:ME:74:VAL:O	4:ME:77:GLU:HG2	2.18	0.44
4:ME:123:ARG:HG3	26:N2:69:ASP:OD1	2.18	0.44
4:ME:172:TYR:CG	4:ME:173:PRO:HD2	2.52	0.44
4:ME:362:VAL:HA	4:ME:368:LEU:HD11	1.99	0.44
4:MG:66:VAL:HG12	4:MG:68:VAL:HG13	1.99	0.44
3:MH:139:LEU:N	3:MH:168:SER:OG	2.51	0.44
3:MH:384:GLN:O	3:MH:388:MET:HG2	2.18	0.44
4:MI:254:GLU:OE1	4:MI:254:GLU:N	2.41	0.44
3:MJ:197:ASP:OD1	3:MJ:198:GLU:N	2.51	0.44
3:MJ:249:ASP:O	3:MJ:252:LYS:HB3	2.17	0.44
4:MK:161:TYR:HB3	4:MK:164:LYS:NZ	2.32	0.44
4:MK:167:LEU:HD13	4:MK:200:CYS:HB2	2.00	0.44
3:ML:309:ARG:H	3:ML:372:THR:HG1	1.56	0.44
4:NA:251:ASP:HB3	4:NA:254:GLU:OE1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:NC:371:VAL:HG11	4:NC:374:ALA:HB2	1.99	0.44
4:NE:9:VAL:HA	4:NE:68:VAL:HG23	2.00	0.44
3:NF:28:HIS:ND1	3:NF:43:GLN:HB2	2.33	0.44
4:NG:116:ASP:OD1	4:NG:116:ASP:N	2.48	0.44
3:NH:350:LYS:HE3	4:NI:180:ALA:HA	2.00	0.44
3:NH:374:ILE:HA	3:NH:377:LEU:HD13	2.00	0.44
4:NI:169:PHE:HE1	4:NI:202:PHE:CD2	2.35	0.44
4:NI:187:SER:O	4:NI:191:THR:HG23	2.18	0.44
4:NI:202:PHE:CE1	4:NI:268:PRO:HD2	2.53	0.44
4:NI:229:ARG:NH1	4:NI:233:GLN:HB2	2.33	0.44
3:NJ:39:ASP:OD1	3:NJ:39:ASP:N	2.50	0.44
4:NK:50:ASN:OD1	4:NK:51:THR:N	2.51	0.44
3:OB:139:LEU:N	3:OB:168:SER:OG	2.51	0.44
4:OC:265:ILE:HG13	4:OC:267:PHE:HD2	1.82	0.44
3:OD:238:THR:HG22	3:OD:241:ARG:NH2	2.33	0.44
4:OE:35:GLN:HG2	4:OE:59:GLY:O	2.18	0.44
4:OE:301:GLN:OE1	4:OE:301:GLN:N	2.51	0.44
4:OG:260:VAL:O	3:OH:397:TRP:HH2	2.01	0.44
3:OH:12:CYS:SG	39:OH:501:GTP:H5'	2.57	0.44
4:OI:35:GLN:HG2	4:OI:59:GLY:O	2.18	0.44
4:OI:295:CYS:HB2	4:OI:377:MET:HG2	1.99	0.44
3:OL:139:LEU:N	3:OL:168:SER:OG	2.51	0.44
29:P2:349:ALA:HA	29:P2:358:VAL:HA	2.00	0.44
29:P3:121:PRO:HG3	29:P3:167:SER:O	2.18	0.44
4:PA:50:ASN:OD1	4:PA:51:THR:N	2.51	0.44
4:PA:234:ILE:O	4:PA:237:SER:OG	2.34	0.44
4:PC:125:LEU:HD13	4:PC:128:LEU:HD21	2.00	0.44
4:PC:235:VAL:HA	4:PC:238:ILE:HG12	2.00	0.44
3:PD:116:VAL:HG23	3:PD:117:LEU:HD22	2.00	0.44
3:PD:372:THR:HG21	3:PD:426:GLN:HG3	1.99	0.44
4:PE:152:LEU:HD23	4:PE:156:ARG:HG3	1.99	0.44
3:PF:51:TYR:HD2	3:PF:59:TYR:HB3	1.82	0.44
3:PF:137:HIS:O	3:PF:168:SER:HA	2.18	0.44
3:PF:245:GLN:HE22	4:PG:15:GLN:NE2	2.14	0.44
3:PF:324:LYS:HE2	4:PG:222:PRO:HD2	2.00	0.44
4:PG:35:GLN:HG2	4:PG:59:GLY:O	2.18	0.44
4:PG:295:CYS:HB2	4:PG:377:MET:HG2	1.99	0.44
4:PG:329:ASN:OD1	4:PG:330:ALA:N	2.51	0.44
3:PH:32:PRO:C	3:PH:83:GLN:HE21	2.22	0.44
3:PH:91:VAL:HG11	3:PH:116:VAL:HG12	2.00	0.44
3:PH:324:LYS:HD3	4:PI:210:TYR:CE1	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:PI:331:ALA:O	4:PI:335:ILE:HG12	2.18	0.44
4:PI:368:LEU:HD23	4:PI:368:LEU:H	1.82	0.44
4:PK:51:THR:HG23	4:PK:52:PHE:CD2	2.52	0.44
4:PK:252:LEU:HA	4:PK:255:PHE:CD2	2.53	0.44
4:PK:386:GLU:OE1	4:PK:390:ARG:NH1	2.50	0.44
3:PL:255:VAL:HG12	4:PM:407:TRP:CD2	2.53	0.44
4:PM:329:ASN:HA	4:PM:332:ILE:HG12	2.00	0.44
30:Q1:1456:ARG:O	30:Q1:1460:THR:HG23	2.17	0.44
3:QB:43:GLN:HA	3:QB:241:ARG:CZ	2.48	0.44
3:QB:58:LYS:HE2	3:RB:281:TYR:CE1	2.52	0.44
4:QC:176:GLN:N	4:QC:176:GLN:OE1	2.51	0.44
4:QC:186:ASN:OD1	4:QC:187:SER:N	2.50	0.44
3:QD:214:THR:HG23	3:QD:215:LEU:HD12	1.99	0.44
4:QE:280:LYS:HA	4:QE:280:LYS:HD2	1.81	0.44
3:QF:267:MET:N	3:QF:267:MET:SD	2.90	0.44
3:QF:282:ARG:HE	3:QF:288:GLU:CD	2.25	0.44
4:QG:115:VAL:HA	4:QG:118:VAL:HG22	2.00	0.44
3:QH:291:GLN:NE2	3:QH:295:ASP:OD1	2.50	0.44
3:QH:324:LYS:HD2	4:QI:221:ARG:HA	2.00	0.44
4:QI:88:HIS:HB3	4:QI:91:GLN:HG2	2.00	0.44
4:QK:113:GLU:OE1	4:QK:113:GLU:N	2.51	0.44
3:QL:380:ARG:O	3:QL:384:GLN:HG2	2.18	0.44
4:QM:113:GLU:N	4:QM:113:GLU:OE1	2.48	0.44
31:R1:134:THR:OG1	31:R1:137:GLU:HG3	2.18	0.44
4:RC:36:MET:HG3	4:RC:41:THR:OG1	2.18	0.44
4:RC:67:PHE:O	4:RC:93:ILE:N	2.51	0.44
4:RE:265:ILE:HA	4:RE:267:PHE:CE2	2.53	0.44
4:RG:47:ASP:HB3	4:RG:49:PHE:CE2	2.53	0.44
4:RG:351:PHE:CZ	3:RH:175:VAL:HB	2.52	0.44
4:RI:163:LYS:HA	4:RI:163:LYS:HD3	1.71	0.44
3:RJ:324:LYS:HE2	4:RK:222:PRO:CD	2.48	0.44
4:RM:66:VAL:HG12	4:RM:68:VAL:HG13	1.99	0.44
3:SB:54:ALA:HB3	3:SB:58:LYS:HB3	2.00	0.44
3:SB:173:PRO:HD3	3:SB:203:ASP:OD1	2.18	0.44
4:SC:163:LYS:HA	4:SC:163:LYS:HD3	1.75	0.44
3:SD:83:GLN:O	3:SD:86:ARG:NH2	2.51	0.44
4:SE:115:VAL:HA	4:SE:118:VAL:HG22	2.00	0.44
4:SG:46:ASP:HA	4:SG:50:ASN:HB3	1.99	0.44
4:SI:36:MET:HG3	4:SI:41:THR:OG1	2.17	0.44
4:SI:66:VAL:HG13	4:SI:91:GLN:O	2.18	0.44
4:SI:422:ARG:HE	4:SI:422:ARG:HA	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:SJ:117:LEU:HA	3:SJ:117:LEU:HD23	1.76	0.44
3:SJ:156:ARG:CZ	3:SJ:164:MET:HE1	2.48	0.44
4:SK:36:MET:HG3	4:SK:41:THR:OG1	2.17	0.44
4:SK:88:HIS:CE1	4:TK:280:LYS:HZ3	2.35	0.44
4:SK:346:TRP:HE1	3:SL:391:ARG:HH11	1.64	0.44
4:SK:393:HIS:HA	4:SK:396:ASP:CG	2.43	0.44
3:SL:12:CYS:HB3	39:SL:501:GTP:H5'	1.99	0.44
3:SL:42:LEU:HD11	3:SL:356:ILE:HG21	2.00	0.44
3:SL:289:LEU:O	3:SL:293:MET:HG2	2.18	0.44
4:TC:21:TRP:CZ2	4:TC:65:ALA:HB2	2.53	0.44
4:TC:141:PHE:HE2	4:TC:203:MET:HG2	1.83	0.44
3:TD:267:MET:SD	3:TD:267:MET:N	2.90	0.44
4:TI:149:PHE:O	4:TI:152:LEU:HG	2.18	0.44
4:TI:326:LYS:HE2	3:TJ:218:THR:O	2.17	0.44
3:TJ:35:THR:HG21	33:U:287:LEU:HD13	1.99	0.44
3:TJ:60:VAL:HG23	3:TJ:86:ARG:NH1	2.26	0.44
4:TK:235:VAL:HA	4:TK:238:ILE:HG12	1.99	0.44
3:TL:404:ASP:N	3:TL:404:ASP:OD1	2.50	0.44
33:U:404:ARG:O	33:U:408:GLU:HG2	2.18	0.44
33:U:486:GLN:HA	33:U:489:HIS:NE2	2.33	0.44
33:U:490:VAL:O	33:U:494:LEU:HG	2.17	0.44
33:U:516:ASP:O	33:U:519:LYS:HG2	2.18	0.44
3:UB:118:ASP:OD1	3:UB:121:ARG:NH1	2.51	0.44
3:UB:173:PRO:HD3	3:UB:203:ASP:OD1	2.18	0.44
3:UB:217:LEU:O	3:UB:219:THR:N	2.50	0.44
4:UC:175:PRO:O	4:UC:390:ARG:HD3	2.17	0.44
4:UC:187:SER:O	4:UC:190:THR:OG1	2.29	0.44
4:UE:51:THR:HG23	4:UE:52:PHE:CD2	2.53	0.44
3:UF:148:GLY:O	3:UF:152:ILE:HG12	2.18	0.44
4:UG:208:ALA:N	4:UG:304:LYS:HZ1	2.16	0.44
4:UG:280:LYS:O	4:UG:284:GLU:HB2	2.17	0.44
3:UH:5:VAL:HG23	3:UH:130:LEU:HD21	1.99	0.44
3:UJ:152:ILE:HD12	3:UJ:195:ASN:HB2	1.99	0.44
33:V:525:LEU:O	33:V:528:THR:OG1	2.33	0.44
4:VA:420:GLU:HA	4:VA:423:GLU:OE2	2.17	0.44
3:VD:21:TRP:CZ2	3:VD:63:ALA:HB2	2.52	0.44
3:VD:144:GLY:HA2	3:VD:147:MET:HE3	2.00	0.44
3:VD:313:VAL:HG23	3:VD:349:VAL:HA	1.99	0.44
4:VE:213:CYS:O	4:VE:218:ASP:N	2.51	0.44
4:VI:146:GLY:N	39:VI:501:GTP:O2B	2.49	0.44
4:VI:419:SER:HA	4:VI:422:ARG:HE	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:VI:424:ASP:O	4:VI:428:LEU:HG	2.17	0.44
4:VK:117:LEU:O	4:VK:121:ARG:HG2	2.17	0.44
33:W:280:GLU:O	33:W:283:LYS:HG2	2.17	0.44
4:WA:229:ARG:NH1	4:WA:233:GLN:HB2	2.33	0.44
4:WA:260:VAL:O	3:WB:397:TRP:HH2	2.01	0.44
3:WB:250:LEU:HD13	3:WB:253:LEU:HD12	2.00	0.44
3:WB:305:PRO:HA	3:WB:373:ALA:HB2	2.00	0.44
4:WC:113:GLU:OE1	4:WC:113:GLU:N	2.49	0.44
3:WD:99:ASN:OD1	3:WD:142:GLY:HA3	2.18	0.44
3:WF:394:PHE:HA	3:WF:397:TRP:HZ3	1.83	0.44
4:WG:192:HIS:CE1	4:WG:193:THR:HG23	2.53	0.44
4:WG:331:ALA:O	4:WG:334:THR:OG1	2.25	0.44
4:WI:185:TYR:OH	4:WI:403:ALA:O	2.18	0.44
4:WI:397:LEU:HD12	4:WI:398:MET:N	2.33	0.44
4:WK:272:TYR:HE1	4:WK:374:ALA:HB1	1.83	0.44
3:WL:12:CYS:SG	39:WL:501:GTP:H5'	2.57	0.44
34:XB:22:LEU:O	34:XB:22:LEU:HD23	2.17	0.44
34:XB:86:TYR:HD1	34:XB:107:ASN:HD21	1.63	0.44
35:XH:97:PHE:HE2	35:XH:133:LEU:HD22	1.83	0.44
35:XK:85:GLU:OE1	35:XK:85:GLU:N	2.43	0.44
35:XL:224:ALA:O	35:XL:228:ILE:HG13	2.18	0.44
35:XM:58:LYS:O	35:XM:62:ARG:HG3	2.18	0.44
37:YB:144:VAL:HG13	37:YB:148:MET:HE1	2.00	0.44
37:YF:74:SER:O	37:YF:78:LYS:HE3	2.17	0.44
37:YH:120:GLU:O	37:YH:124:HIS:N	2.51	0.44
37:YI:26:ILE:HD13	37:YI:29:LEU:HD12	1.99	0.44
37:YI:63:ARG:N	37:YI:63:ARG:HD3	2.32	0.44
37:YP:111:SER:C	37:YP:136:GLY:H	2.26	0.44
37:YP:130:ALA:HB3	37:YP:131:ARG:NH1	2.32	0.44
37:YS:18:PHE:O	37:YS:22:GLN:N	2.51	0.44
37:YU:15:TYR:O	37:YU:19:GLN:N	2.51	0.44
37:YV:108:ASN:HB3	37:YV:110:LEU:HD13	1.99	0.44
37:YV:113:LEU:HD11	37:YV:140:LEU:HA	1.99	0.44
36:Z:310:ALA:HA	36:Z:313:HIS:NE2	2.32	0.44
36:Z:361:HIS:CE1	36:Z:365:GLN:HE21	2.36	0.44
2:A2:294:LYS:O	2:A2:297:MET:HG3	2.16	0.44
2:A3:152:ARG:HA	2:A3:155:GLU:OE1	2.18	0.44
2:A3:294:LYS:O	2:A3:297:MET:HG3	2.17	0.44
2:A3:391:MET:O	2:A3:395:LYS:HD3	2.16	0.44
3:AB:350:LYS:HE3	4:AC:181:VAL:H	1.83	0.44
4:AE:102:ASN:HB3	4:AE:105:ARG:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AF:47:ILE:HG12	3:AF:59:TYR:CD2	2.52	0.44
3:AF:51:TYR:CD1	3:AF:61:PRO:HA	2.53	0.44
4:AG:104:ALA:HB1	4:AG:108:TYR:CD2	2.53	0.44
4:AG:207:GLU:HB2	4:AG:304:LYS:NZ	2.33	0.44
4:AG:216:ASN:HD21	4:AG:275:VAL:HG23	1.83	0.44
4:AG:321:GLY:HA3	4:AG:372:GLN:O	2.18	0.44
3:AH:187:LEU:HD21	3:AH:408:PHE:CE1	2.51	0.44
3:AH:258:VAL:HB	4:AI:407:TRP:HZ2	1.82	0.44
4:AI:208:ALA:HB2	4:AI:304:LYS:HE3	2.00	0.44
4:AI:417:GLU:HA	4:AI:420:GLU:HG2	1.99	0.44
3:AJ:25:SER:O	3:AJ:29:GLY:N	2.51	0.44
4:AK:234:ILE:O	4:AK:237:SER:OG	2.34	0.44
4:AK:268:PRO:HB2	4:AK:378:LEU:HD11	2.00	0.44
3:AL:101:TRP:HB2	3:AL:184:ASN:HD22	1.82	0.44
4:AM:75:VAL:HG23	4:AM:92:LEU:HD12	2.00	0.44
4:AM:163:LYS:HD3	4:AM:163:LYS:HA	1.72	0.44
4:AM:216:ASN:HD21	4:AM:275:VAL:HG23	1.83	0.44
1:B:480:GLU:O	1:B:483:LYS:HG3	2.18	0.44
5:B2:7:LYS:CE	8:D5:329:ILE:HB	2.47	0.44
5:B2:36:HIS:O	5:B2:40:GLN:NE2	2.46	0.44
5:B2:183:LEU:HD23	5:B2:183:LEU:HA	1.77	0.44
5:B3:324:ARG:HD2	5:B3:329:LEU:HD12	2.00	0.44
5:B8:270:ARG:HH21	7:C2:152:ASP:HB3	1.83	0.44
5:B9:285:ASN:HA	5:B9:288:GLU:CD	2.43	0.44
4:BC:90:GLU:HG2	4:BC:121:ARG:NH2	2.33	0.44
4:BC:397:LEU:O	4:BC:401:LYS:HG2	2.18	0.44
3:BD:173:PRO:O	3:BD:380:ARG:NH2	2.51	0.44
3:BF:148:GLY:O	3:BF:152:ILE:HG12	2.18	0.44
4:BG:81:GLY:O	4:BG:84:ARG:NH1	2.51	0.44
3:BH:410:GLU:HA	3:BH:413:SER:HB3	1.99	0.44
4:BI:117:LEU:O	4:BI:121:ARG:HG2	2.18	0.44
4:BM:9:VAL:HG11	4:BM:150:ALA:HB2	2.00	0.44
6:C:29:ILE:HB	6:C:96:ASP:CB	2.47	0.44
7:C2:122:VAL:O	7:C2:126:ARG:HG2	2.18	0.44
7:C3:202:ARG:HH22	7:C3:472:LYS:HB3	1.82	0.44
7:C5:403:ARG:HH11	7:C5:406:ARG:HE	1.65	0.44
7:C7:232:ARG:O	7:C7:236:HIS:ND1	2.49	0.44
7:C8:116:ASN:OD1	7:C8:119:ARG:NH2	2.51	0.44
7:C8:156:TRP:HA	7:C8:159:GLU:OE1	2.18	0.44
7:C9:176:ASP:O	7:C9:179:ARG:HG2	2.18	0.44
7:C9:199:LEU:HD21	7:C9:219:LEU:CB	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C9:218:GLU:OE2	7:C9:342:LYS:HG3	2.18	0.44
7:C9:363:THR:O	7:C9:366:THR:OG1	2.35	0.44
3:CD:205:GLU:HA	3:CD:208:TYR:CD2	2.53	0.44
3:CD:317:PHE:O	3:CD:354:CYS:N	2.41	0.44
3:CF:234:SER:O	3:CF:238:THR:HG23	2.18	0.44
4:CG:411:GLU:OE2	4:CG:413:MET:HE1	2.17	0.44
4:CI:208:ALA:HA	4:CI:211:ASP:HB2	2.00	0.44
4:CK:115:VAL:HG22	4:CK:119:LEU:HG	2.00	0.44
3:CL:191:GLN:O	3:CL:194:GLU:HG2	2.18	0.44
3:CL:227:HIS:CE1	14:G6:295:PRO:HG2	2.53	0.44
4:CM:178:SER:OG	4:CM:180:ALA:O	2.35	0.44
4:CM:311:LYS:NZ	4:CM:343:PHE:O	2.43	0.44
7:Ca:414:ASP:OD1	7:Ca:415:MET:HG3	2.17	0.44
7:Cc:214:GLU:HA	7:Cc:217:LYS:HE2	2.00	0.44
7:Cd:168:ILE:O	7:Cd:171:THR:OG1	2.25	0.44
8:D2:230:ARG:HD2	4:LC:40:LYS:NZ	2.33	0.44
8:D3:174:VAL:O	8:D3:178:LYS:HG3	2.17	0.44
8:D3:352:VAL:O	8:D3:356:ARG:HG2	2.18	0.44
8:D4:25:LYS:O	8:D4:28:GLU:HG3	2.17	0.44
8:D8:186:ILE:O	8:D8:190:LEU:HG	2.18	0.44
4:DA:286:LEU:HD11	4:DA:373:ARG:H	1.82	0.44
4:DE:1:MET:O	4:DE:131:GLY:HA3	2.18	0.44
4:DE:9:VAL:HG23	4:DE:149:PHE:HD2	1.83	0.44
4:DG:279:GLU:O	4:DG:283:HIS:HD2	2.01	0.44
4:DG:280:LYS:O	4:DG:284:GLU:HB2	2.18	0.44
4:DG:320:ARG:HD3	4:DG:360:PRO:HG3	2.00	0.44
4:DG:331:ALA:O	4:DG:334:THR:OG1	2.27	0.44
3:DH:261:PRO:O	3:DH:264:HIS:NE2	2.50	0.44
3:DH:302:ALA:HB1	3:DH:377:LEU:HD11	2.00	0.44
4:DI:229:ARG:NH1	4:DI:233:GLN:HB2	2.33	0.44
4:DI:280:LYS:O	4:DI:284:GLU:HB2	2.18	0.44
3:DJ:330:MET:HA	3:DJ:333:VAL:HG12	1.98	0.44
4:DK:21:TRP:HD1	4:DK:67:PHE:HZ	1.66	0.44
3:DL:24:ILE:HG23	3:DL:28:HIS:CE1	2.53	0.44
3:DL:374:ILE:HD12	3:DL:374:ILE:H	1.82	0.44
9:E:572:ARG:HD2	3:IF:33:THR:HG21	1.99	0.44
9:E:609:ALA:O	9:E:613:ALA:N	2.50	0.44
10:E1:43:ILE:HG13	10:E1:44:LYS:H	1.83	0.44
3:EB:180:VAL:HG13	3:EB:183:TYR:HD2	1.83	0.44
4:EC:167:LEU:HB3	4:EC:169:PHE:CE1	2.53	0.44
4:EC:262:TYR:OH	3:ED:391:ARG:O	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EC:316:CYS:N	4:EC:378:LEU:O	2.35	0.44
3:ED:32:PRO:HA	3:ED:81:PHE:CE1	2.53	0.44
4:EE:68:VAL:HG12	4:EE:93:ILE:HB	2.00	0.44
4:EG:121:ARG:O	4:EG:125:LEU:HD23	2.18	0.44
4:EG:125:LEU:HD13	4:EG:128:LEU:HD21	1.99	0.44
3:EH:61:PRO:HD3	3:EH:84:ILE:HG13	1.99	0.44
4:EI:387:ALA:O	4:EI:391:LEU:HG	2.17	0.44
3:EJ:72:THR:O	3:EJ:75:SER:OG	2.25	0.44
3:EJ:372:THR:HB	3:EJ:375:GLN:HE22	1.83	0.44
4:EK:208:ALA:H	4:EK:304:LYS:NZ	2.12	0.44
4:EK:263:PRO:HD3	3:EL:396:HIS:CD2	2.53	0.44
4:EK:311:LYS:N	4:EK:382:THR:OG1	2.49	0.44
3:EL:13:GLY:HA2	3:EL:16:ILE:HB	2.00	0.44
3:EL:206:ALA:O	3:EL:210:ILE:HG12	2.17	0.44
11:F1:300:SER:O	11:F1:304:ILE:HG12	2.18	0.44
11:F1:466:LYS:O	11:F1:470:MET:HG3	2.17	0.44
11:F4:295:THR:HA	11:F4:298:LYS:HE3	1.99	0.44
11:F6:155:GLU:O	11:F6:158:TYR:HB3	2.18	0.44
11:F7:323:HIS:HA	11:F7:326:GLU:CD	2.43	0.44
11:F7:382:ILE:HD11	11:F7:434:LEU:HD11	2.00	0.44
11:F8:432:LEU:HA	11:F8:435:ARG:NE	2.33	0.44
11:F8:441:LEU:O	11:F8:444:LEU:HG	2.17	0.44
4:FA:315:CYS:HA	4:FA:379:SER:HA	2.00	0.44
3:FB:19:LYS:NZ	3:FB:223:GLY:O	2.51	0.44
3:FB:249:ASP:O	3:FB:253:LEU:HG	2.18	0.44
4:FC:160:ASP:OD1	4:FC:161:TYR:N	2.51	0.44
4:FC:189:LEU:HA	4:FC:192:HIS:ND1	2.32	0.44
4:FC:389:ALA:HA	4:FC:392:ASP:OD2	2.17	0.44
4:FC:420:GLU:HA	4:FC:423:GLU:OE2	2.18	0.44
4:FI:11:GLN:HG3	39:FI:501:GTP:O1B	2.18	0.44
3:FJ:246:LEU:HD13	3:FJ:353:VAL:C	2.43	0.44
4:FK:186:ASN:HA	4:FK:189:LEU:HD12	1.98	0.44
3:FL:111:GLU:OE1	3:FL:111:GLU:N	2.42	0.44
3:FL:292:GLN:HA	3:FL:295:ASP:OD2	2.18	0.44
11:Fb:226:GLN:O	11:Fb:229:MET:HG3	2.17	0.44
11:Fb:371:ALA:O	11:Fb:374:THR:OG1	2.28	0.44
11:Fc:443:LEU:O	11:Fc:447:THR:HG23	2.17	0.44
11:Fh:347:ILE:O	11:Fh:351:THR:HG23	2.18	0.44
11:Fi:474:LYS:HA	11:Fi:474:LYS:HD3	1.80	0.44
11:Fk:219:VAL:O	11:Fk:223:LYS:HG2	2.17	0.44
13:G1:156:LYS:HA	13:G1:163:TYR:CE1	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:G1:430:ILE:HG22	13:G1:432:GLU:HG2	1.99	0.44
13:G1:515:TYR:O	13:G1:518:SER:OG	2.31	0.44
13:G3:32:ASN:OD1	13:G3:39:VAL:HG23	2.18	0.44
13:G3:415:ASN:ND2	13:G3:444:LEU:HB3	2.32	0.44
14:G4:553:LYS:O	14:G4:556:LYS:HE3	2.17	0.44
14:G4:743:TYR:O	14:G4:745:LEU:N	2.48	0.44
14:G5:25:HIS:CD2	14:G5:40:LYS:HG3	2.53	0.44
14:G5:546:GLU:OE1	14:G5:546:GLU:N	2.42	0.44
14:G5:570:ASP:OD1	14:G5:571:TYR:N	2.51	0.44
3:GB:204:ASN:OD1	3:GB:205:GLU:N	2.51	0.44
4:GC:88:HIS:CD2	4:HC:284:GLU:OE2	2.71	0.44
4:GC:113:GLU:OE1	4:GC:113:GLU:N	2.51	0.44
4:GC:263:PRO:HB2	4:GC:264:ARG:CZ	2.47	0.44
3:GD:32:PRO:HA	3:GD:81:PHE:CE1	2.53	0.44
3:GD:156:ARG:NE	3:GD:164:MET:HE3	2.32	0.44
3:GD:289:LEU:HD21	3:GD:363:MET:HB3	2.00	0.44
3:GF:178:THR:OG1	3:GF:180:VAL:HG12	2.18	0.44
4:GG:224:TYR:HA	4:GG:227:LEU:HB2	1.99	0.44
4:GI:88:HIS:HA	4:HI:283:HIS:CE1	2.53	0.44
4:GI:116:ASP:N	4:GI:116:ASP:OD1	2.49	0.44
3:GL:256:ASN:HB3	3:GL:350:LYS:HG3	1.99	0.44
15:H2:291:SER:HB3	15:H2:315:ARG:NH1	2.32	0.44
15:H5:234:MET:SD	15:H5:234:MET:N	2.91	0.44
4:HA:10:GLY:HA2	4:HA:145:THR:OG1	2.18	0.44
3:HB:31:ASP:N	3:HB:31:ASP:OD1	2.51	0.44
3:HB:106:TYR:HB2	3:HB:401:GLU:OE2	2.17	0.44
3:HD:28:HIS:O	3:HD:43:GLN:NE2	2.51	0.44
3:HD:91:VAL:HG11	3:HD:119:VAL:HG21	2.00	0.44
4:HE:88:HIS:HB3	4:HE:91:GLN:CG	2.48	0.44
3:HF:384:GLN:O	3:HF:388:MET:HG2	2.18	0.44
4:HG:210:TYR:CE1	4:HG:227:LEU:HD11	2.52	0.44
4:HG:234:ILE:O	4:HG:237:SER:OG	2.32	0.44
4:HG:272:TYR:HD2	4:HG:275:VAL:HG13	1.82	0.44
3:HJ:328:GLU:HA	3:HJ:331:LEU:HG	1.99	0.44
3:HL:299:MET:HE2	3:HL:303:CYS:C	2.42	0.44
4:IA:210:TYR:CE1	4:IA:222:PRO:HD2	2.53	0.44
3:IB:139:LEU:N	3:IB:168:SER:OG	2.51	0.44
3:IB:167:PHE:CD1	3:IB:200:TYR:HD2	2.31	0.44
3:IB:245:GLN:HG2	3:IB:245:GLN:O	2.18	0.44
4:IC:10:GLY:O	4:IC:13:GLY:N	2.51	0.44
4:IC:200:CYS:HB3	4:IC:202:PHE:CE1	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ID:152:ILE:O	3:ID:156:ARG:HG2	2.18	0.44
3:ID:324:LYS:HG3	4:IE:221:ARG:NH1	2.33	0.44
4:IE:306:ASP:OD2	4:IE:308:ARG:HG2	2.18	0.44
3:IF:30:ILE:HG13	3:IF:36:TYR:HB2	2.00	0.44
3:IF:345:ILE:HD12	3:IF:346:PRO:HD2	2.00	0.44
4:IG:317:MET:HE1	4:IG:351:PHE:HB2	1.98	0.44
3:IH:324:LYS:HG3	4:II:221:ARG:NH1	2.33	0.44
3:IH:325:GLU:O	3:IH:329:GLN:HG2	2.18	0.44
3:IH:378:PHE:HA	3:IH:381:ILE:HG22	2.00	0.44
3:IH:408:PHE:O	3:IH:412:GLU:HG3	2.18	0.44
3:IJ:3:GLU:OE2	3:IJ:129:CYS:N	2.51	0.44
3:IJ:6:HIS:HE1	3:IJ:8:GLN:HB3	1.83	0.44
3:IJ:415:MET:O	3:IJ:419:VAL:HG23	2.18	0.44
4:IK:154:MET:HA	4:IK:157:LEU:HG	1.99	0.44
3:IL:3:GLU:OE2	3:IL:127:CYS:HB2	2.17	0.44
4:IM:165:SER:C	4:IM:166:LYS:HD3	2.43	0.44
4:IM:386:GLU:HA	4:IM:389:ALA:HB3	2.00	0.44
19:J1:27:SER:OG	19:J1:99:GLY:O	2.21	0.44
19:J1:121:MET:CE	19:J1:131:ALA:HB2	2.48	0.44
19:J2:92:HIS:NE2	19:J2:123:TYR:CD2	2.85	0.44
4:JA:163:LYS:HA	4:JA:163:LYS:HD3	1.75	0.44
3:JB:239:CYS:SG	3:JB:316:VAL:HG11	2.58	0.44
4:JE:424:ASP:O	4:JE:428:LEU:HD23	2.17	0.44
3:JF:182:PRO:HB3	3:JF:381:ILE:HD11	1.99	0.44
3:JF:375:GLN:C	3:JF:379:LYS:HZ3	2.26	0.44
4:JG:345:ASP:N	4:JG:345:ASP:OD1	2.50	0.44
4:JI:10:GLY:O	4:JI:14:VAL:HG13	2.16	0.44
3:JJ:2:ARG:HA	3:JJ:129:CYS:O	2.18	0.44
4:JK:6:SER:HB3	4:JK:65:ALA:HB2	2.00	0.44
4:JK:70:LEU:HA	4:JK:95:GLY:HA3	1.99	0.44
4:JK:160:ASP:OD1	4:JK:161:TYR:N	2.51	0.44
4:JK:225:THR:O	4:JK:229:ARG:HB2	2.18	0.44
4:JK:260:VAL:HG23	4:JK:265:ILE:O	2.17	0.44
3:JL:51:TYR:CD1	3:JL:61:PRO:HA	2.53	0.44
3:JL:81:PHE:O	3:JL:84:ILE:HG22	2.18	0.44
3:JL:120:VAL:O	3:JL:124:ALA:N	2.42	0.44
3:JL:217:LEU:HD11	3:JL:220:PRO:HB3	2.00	0.44
21:K2:188:CYS:O	21:K2:189:GLU:C	2.60	0.44
21:K2:245:VAL:O	21:K2:249:ASN:N	2.51	0.44
21:K2:328:ILE:O	21:K2:332:VAL:HG23	2.18	0.44
4:KA:315:CYS:HA	4:KA:379:SER:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KB:28:HIS:ND1	3:KB:43:GLN:HB2	2.33	0.44
3:KB:313:VAL:HG23	3:KB:349:VAL:HA	2.00	0.44
3:KB:328:GLU:O	3:KB:332:ASN:N	2.38	0.44
3:KD:190:HIS:ND1	3:KD:414:ASN:OD1	2.51	0.44
4:KE:81:GLY:O	4:KE:84:ARG:NH1	2.51	0.44
4:KE:174:ALA:HB3	4:KE:177:VAL:O	2.18	0.44
4:KE:271:THR:HA	4:KE:302:MET:HE1	2.00	0.44
4:KE:411:GLU:OE2	4:KE:413:MET:HE1	2.17	0.44
3:KH:114:ASP:N	3:KH:114:ASP:OD1	2.49	0.44
3:KH:156:ARG:CZ	3:KH:164:MET:HE3	2.48	0.44
3:KH:292:GLN:HA	3:KH:295:ASP:OD2	2.18	0.44
4:KK:260:VAL:HG13	3:KL:397:TRP:HH2	1.83	0.44
4:LA:409:VAL:HA	4:LA:413:MET:O	2.17	0.44
3:LB:6:HIS:HD2	3:LB:134:GLN:HG2	1.82	0.44
3:LB:158:GLU:HG2	3:LB:159:TYR:CD2	2.53	0.44
4:LC:27:GLU:HG3	4:LC:243:ARG:NE	2.33	0.44
3:LD:174:LYS:HG2	3:LD:205:GLU:OE2	2.18	0.44
3:LD:380:ARG:O	3:LD:384:GLN:HG2	2.18	0.44
4:LE:105:ARG:O	4:LE:109:THR:OG1	2.29	0.44
3:LF:162:ARG:HA	3:LF:162:ARG:HD3	1.90	0.44
4:LG:5:ILE:O	4:LG:136:LEU:N	2.37	0.44
4:LG:90:GLU:OE1	4:LG:90:GLU:N	2.51	0.44
4:LG:325:PRO:HA	4:LG:328:VAL:HB	1.99	0.44
4:LG:367:ASP:OD1	4:LG:367:ASP:N	2.50	0.44
3:LH:32:PRO:C	3:LH:83:GLN:HE21	2.26	0.44
3:LH:295:ASP:HB2	3:LH:298:ASN:HB2	2.00	0.44
3:LH:357:PRO:O	3:LH:359:ARG:NH1	2.44	0.44
3:LJ:325:GLU:HA	3:LJ:328:GLU:HG3	2.00	0.44
23:M:116:SER:OG	23:M:117:ARG:HD3	2.17	0.44
3:MB:12:CYS:O	3:MB:16:ILE:HG12	2.18	0.44
3:MB:132:GLY:HA2	3:MB:162:ARG:HB3	1.99	0.44
3:MD:3:GLU:OE2	3:MD:129:CYS:N	2.50	0.44
3:MD:84:ILE:O	3:MD:86:ARG:NH1	2.50	0.44
4:ME:161:TYR:HB3	4:ME:164:LYS:HZ3	1.83	0.44
4:ME:319:TYR:HA	4:ME:374:ALA:O	2.18	0.44
3:MF:5:VAL:HG23	3:MF:130:LEU:HD21	2.00	0.44
3:MF:269:GLY:HA3	3:MF:367:PHE:HB3	1.98	0.44
3:MH:315:ALA:HA	3:MH:367:PHE:HA	1.99	0.44
4:MI:213:CYS:O	4:MI:218:ASP:N	2.51	0.44
4:MI:260:VAL:O	3:MJ:397:TRP:HH2	2.01	0.44
3:MJ:267:MET:HE1	3:MJ:299:MET:SD	2.58	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MK:141:PHE:CD2	4:MK:172:TYR:HA	2.53	0.44
3:ML:391:ARG:O	3:ML:392:LYS:HG3	2.16	0.44
26:N2:89:LYS:O	26:N2:93:LEU:HD23	2.18	0.44
3:NB:4:ILE:HB	3:NB:50:TYR:HE1	1.83	0.44
4:NC:47:ASP:HB3	4:NC:49:PHE:CE2	2.53	0.44
3:ND:271:ALA:HB3	3:ND:365:ALA:H	1.83	0.44
4:NE:163:LYS:HA	4:NE:163:LYS:HD3	1.82	0.44
4:NE:321:GLY:HA3	4:NE:372:GLN:O	2.17	0.44
3:NF:345:ILE:HD12	4:NG:398:MET:HE1	2.00	0.44
4:NG:2:ARG:HA	4:NG:133:GLN:NE2	2.33	0.44
4:NG:10:GLY:O	4:NG:14:VAL:HG13	2.18	0.44
4:NG:285:GLN:HE22	4:NG:287:SER:HB3	1.82	0.44
3:NH:47:ILE:HG12	3:NH:59:TYR:CD2	2.52	0.44
3:NH:70:PRO:HA	3:NH:73:MET:HE3	2.00	0.44
4:NI:102:ASN:ND2	4:NI:105:ARG:HG3	2.33	0.44
4:NI:287:SER:N	4:NI:290:GLU:OE2	2.50	0.44
3:NJ:101:TRP:CE3	3:NJ:187:LEU:HD13	2.53	0.44
4:OA:163:LYS:HA	4:OA:163:LYS:HD3	1.76	0.44
4:OA:263:PRO:O	4:OA:264:ARG:HB2	2.17	0.44
4:OA:397:LEU:O	4:OA:401:LYS:HG2	2.18	0.44
3:OB:286:VAL:HG21	3:OB:325:GLU:HG3	1.99	0.44
4:OC:167:LEU:HB3	4:OC:169:PHE:CE1	2.53	0.44
3:OD:292:GLN:HA	3:OD:295:ASP:OD2	2.18	0.44
4:OE:333:ALA:HA	4:OE:336:LYS:HD2	2.00	0.44
3:OF:174:LYS:HG3	3:OF:175:VAL:HG12	1.99	0.44
4:OG:274:PRO:HG3	4:OG:374:ALA:HA	2.00	0.44
3:OH:180:VAL:O	3:OH:183:TYR:HB2	2.17	0.44
27:P:94:ILE:HA	27:P:97:PHE:CE2	2.53	0.44
27:P:206:ARG:HH21	27:P:209:VAL:HG21	1.83	0.44
29:P2:272:LEU:HD11	29:P2:286:LYS:HG2	1.99	0.44
29:P2:576:GLU:HB2	29:P2:578:GLU:HG3	1.99	0.44
4:PC:139:HIS:HE1	4:PC:168:GLU:HB3	1.83	0.44
3:PD:155:ILE:HA	3:PD:158:GLU:HB2	1.98	0.44
4:PG:144:GLY:N	39:PG:501:GTP:O2B	2.50	0.44
4:PG:171:ILE:HD12	4:PG:204:VAL:HG13	1.99	0.44
4:PG:251:ASP:HB3	4:PG:254:GLU:OE1	2.18	0.44
4:PG:280:LYS:HD2	4:PG:280:LYS:HA	1.76	0.44
3:PH:109:GLY:O	3:PH:113:VAL:HG13	2.18	0.44
4:PI:161:TYR:HB3	4:PI:164:LYS:NZ	2.33	0.44
4:PI:324:VAL:HG21	3:PJ:219:THR:HG22	1.99	0.44
3:PJ:148:GLY:O	3:PJ:152:ILE:HG12	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PL:6:HIS:HB3	3:PL:21:TRP:HZ2	1.81	0.44
3:PL:238:THR:HA	3:PL:241:ARG:HG2	2.00	0.44
30:Q1:1417:ARG:CG	30:Q1:1419:ARG:HG2	2.48	0.44
4:QC:67:PHE:O	4:QC:93:ILE:N	2.50	0.44
4:QE:345:ASP:OD1	4:QE:345:ASP:N	2.51	0.44
3:QF:173:PRO:HA	3:QF:380:ARG:NH2	2.32	0.44
4:QG:84:ARG:HH22	37:YI:124:HIS:HA	1.83	0.44
4:QG:315:CYS:O	4:QG:351:PHE:HA	2.17	0.44
3:QH:216:LYS:O	3:QH:276:ARG:NH2	2.51	0.44
4:QI:427:ALA:HA	4:QI:430:LYS:HG2	2.00	0.44
3:QJ:135:LEU:HD13	3:QJ:164:MET:HE1	2.00	0.44
3:QL:185:ALA:O	3:QL:189:VAL:HG22	2.18	0.44
4:QM:90:GLU:HG2	4:QM:121:ARG:NH2	2.33	0.44
4:RC:365:GLY:H	37:YB:40:ILE:HD11	1.82	0.44
3:RF:51:TYR:CD1	3:RF:61:PRO:HA	2.52	0.44
4:RG:70:LEU:HB2	4:RG:145:THR:HG21	2.00	0.44
4:RG:187:SER:O	4:RG:190:THR:OG1	2.32	0.44
3:RH:262:ARG:HD3	3:RH:421:GLU:HG3	2.00	0.44
4:RI:280:LYS:HZ2	4:RI:283:HIS:CE1	2.36	0.44
4:RK:229:ARG:NH1	4:RK:233:GLN:HB2	2.32	0.44
3:RL:173:PRO:HD3	3:RL:203:ASP:OD1	2.18	0.44
4:RM:390:ARG:HH11	4:RM:394:LYS:HZ2	1.66	0.44
3:SB:58:LYS:HE2	3:TB:281:TYR:CE1	2.53	0.44
3:SB:252:LYS:HG2	4:SC:98:ASP:OD2	2.18	0.44
3:SB:320:ARG:NH1	3:SB:355:ASP:HB2	2.33	0.44
3:SD:305:PRO:HB2	3:SD:310:TYR:HE1	1.83	0.44
4:SE:196:GLU:HG2	4:SE:197:HIS:ND1	2.33	0.44
3:SF:47:ILE:HG13	3:SF:51:TYR:HB2	2.00	0.44
3:SF:268:PRO:HD2	3:SF:301:ALA:HB2	2.00	0.44
4:SG:287:SER:OG	4:SG:290:GLU:OE1	2.21	0.44
4:SI:12:ALA:HB1	39:SI:501:GTP:N2	2.32	0.44
4:SI:261:PRO:HA	3:SJ:394:PHE:HE1	1.83	0.44
3:SJ:111:GLU:HG2	3:SJ:112:LEU:HD22	2.00	0.44
4:SK:272:TYR:CE1	4:SK:374:ALA:HB1	2.53	0.44
3:SL:249:ASP:O	3:SL:253:LEU:HG	2.18	0.44
3:SL:257:MET:O	3:SL:259:PRO:HD3	2.18	0.44
4:SM:125:LEU:HD13	4:SM:128:LEU:HD21	1.99	0.44
3:TB:87:PRO:HA	3:TB:90:PHE:CD2	2.52	0.44
3:TD:273:LEU:H	3:TD:292:GLN:HE22	1.65	0.44
4:TE:187:SER:O	4:TE:191:THR:HG23	2.18	0.44
3:TF:12:CYS:HA	39:TF:501:GTP:N2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:TG:423:GLU:HA	4:TG:426:ALA:HB3	2.00	0.44
3:TH:271:ALA:O	3:TH:273:LEU:HD12	2.17	0.44
3:TH:277:GLY:O	3:TH:280:GLN:NE2	2.51	0.44
4:TI:99:ALA:HB3	4:TI:144:GLY:O	2.18	0.44
4:TI:175:PRO:HA	4:TI:390:ARG:CZ	2.47	0.44
4:TI:345:ASP:OD1	4:TI:345:ASP:N	2.51	0.44
3:TJ:306:ARG:O	3:TJ:306:ARG:NE	2.47	0.44
3:TJ:404:ASP:OD1	3:TJ:404:ASP:N	2.49	0.44
4:TK:216:ASN:HD21	4:TK:275:VAL:HG23	1.83	0.44
4:TK:229:ARG:NH1	4:TK:233:GLN:HB2	2.33	0.44
3:TL:324:LYS:HE2	4:TM:222:PRO:CD	2.48	0.44
4:TM:319:TYR:N	4:TM:354:GLY:O	2.51	0.44
4:UA:1:MET:N	4:UA:130:THR:OG1	2.51	0.44
3:UB:12:CYS:SG	3:UB:13:GLY:N	2.91	0.44
3:UD:309:ARG:HE	3:UD:426:GLN:HE21	1.65	0.44
4:UE:174:ALA:HB3	4:UE:177:VAL:O	2.17	0.44
3:UF:100:ASN:HB3	3:UF:103:LYS:HB2	1.99	0.44
4:UG:319:TYR:HE2	4:UG:328:VAL:HG13	1.82	0.44
3:UH:262:ARG:HA	3:UH:262:ARG:HE	1.83	0.44
4:UK:256:GLN:O	4:UK:260:VAL:HG12	2.18	0.44
4:UK:265:ILE:HD12	4:UK:432:TYR:CE1	2.52	0.44
3:UL:66:VAL:HG12	3:UL:91:VAL:HG13	1.98	0.44
3:UL:322:SER:OG	3:UL:323:MET:SD	2.75	0.44
3:UL:392:LYS:C	3:UL:395:LEU:HD23	2.42	0.44
4:VA:54:SER:N	4:VA:62:VAL:O	2.50	0.44
4:VA:321:GLY:HA3	4:VA:372:GLN:O	2.18	0.44
3:VB:192:LEU:O	3:VB:196:THR:HG22	2.18	0.44
3:VD:296:ALA:O	3:VD:299:MET:HB3	2.18	0.44
4:VE:296:PHE:CE2	4:VE:335:ILE:HG21	2.53	0.44
4:VG:49:PHE:O	4:VG:53:PHE:N	2.50	0.44
3:VH:188:SER:O	3:VH:192:LEU:HG	2.18	0.44
4:VI:148:GLY:O	4:VI:151:SER:OG	2.31	0.44
3:VJ:232:THR:HG22	3:VJ:270:PHE:CD1	2.53	0.44
3:VJ:378:PHE:HA	3:VJ:381:ILE:HG22	1.99	0.44
4:VK:161:TYR:HB3	4:VK:164:LYS:HZ3	1.83	0.44
4:VK:280:LYS:O	4:VK:284:GLU:HB2	2.18	0.44
4:VK:319:TYR:HD2	4:VK:323:VAL:HG11	1.82	0.44
3:VL:148:GLY:O	3:VL:152:ILE:HG12	2.17	0.44
3:VL:302:ALA:HB1	3:VL:377:LEU:HD21	2.00	0.44
4:WA:47:ASP:HB3	4:WA:49:PHE:CE2	2.53	0.44
4:WA:76:ASP:OD1	4:WA:79:ARG:NH1	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:WB:357:PRO:O	3:WB:359:ARG:NH1	2.49	0.44
4:WC:272:TYR:HE1	4:WC:374:ALA:HB1	1.83	0.44
3:WF:12:CYS:O	3:WF:16:ILE:HG12	2.18	0.44
3:WF:69:GLU:OE1	3:WF:72:THR:HG23	2.17	0.44
3:WH:31:ASP:OD2	3:WH:35:THR:OG1	2.34	0.44
3:WH:111:GLU:HG2	3:WH:112:LEU:HD12	2.00	0.44
3:WH:197:ASP:OD1	3:WH:198:GLU:N	2.51	0.44
3:WJ:239:CYS:SG	3:WJ:316:VAL:HG11	2.58	0.44
34:XA:62:PRO:HG3	34:XA:67:LYS:O	2.18	0.44
34:XD:81:LYS:HB2	34:XD:129:TRP:CD2	2.53	0.44
34:XE:86:TYR:CE1	34:XE:108:TYR:HB3	2.53	0.44
34:XG:78:MET:HB2	34:XG:165:VAL:HG23	2.00	0.44
35:XH:137:ILE:O	35:XH:141:LEU:HG	2.17	0.44
35:XI:69:LEU:HA	35:XI:79:ALA:H	1.82	0.44
35:XL:58:LYS:O	35:XL:62:ARG:HG3	2.18	0.44
36:Y:194:ASP:OD1	36:Y:197:LYS:NZ	2.50	0.44
37:YD:106:GLN:HG2	37:YD:107:SER:N	2.31	0.44
37:YD:117:TYR:CD1	37:YD:118:PRO:HA	2.53	0.44
37:YF:12:GLU:HA	37:YF:15:TYR:HD2	1.83	0.44
37:YI:154:HIS:HA	37:YI:157:LYS:HE2	1.98	0.44
37:YM:154:HIS:CD2	37:YM:157:LYS:HB2	2.52	0.44
37:YO:49:VAL:HG11	37:YO:70:MET:HE3	1.99	0.44
37:YQ:4:VAL:HG13	37:YQ:79:LEU:HD22	1.99	0.44
37:YQ:45:SER:HB3	37:YQ:48:GLN:OE1	2.18	0.44
37:YQ:72:ILE:HA	37:YQ:75:GLU:CD	2.43	0.44
37:YV:117:TYR:CD1	37:YV:118:PRO:HA	2.53	0.44
37:YW:14:LYS:O	37:YW:18:PHE:N	2.38	0.44
36:Z:235:GLU:HG3	36:Z:238:LYS:HE3	2.00	0.44
38:a:79:GLU:O	38:a:83:GLN:NE2	2.51	0.44
1:A:73:ILE:HG13	1:A:74:GLN:N	2.33	0.43
2:A1:363:LYS:O	2:A1:367:ARG:HG2	2.18	0.43
2:A1:399:PRO:HD2	7:C2:373:PHE:HE2	1.83	0.43
2:A2:46:GLU:OE1	2:A2:50:LYS:NZ	2.51	0.43
2:A2:128:VAL:CG2	2:A3:11:PHE:H	2.28	0.43
2:A2:282:LEU:HB2	2:A2:372:LEU:CD2	2.48	0.43
4:AC:7:ILE:N	4:AC:136:LEU:O	2.34	0.43
3:AD:3:GLU:OE2	3:AD:127:CYS:HB2	2.18	0.43
3:AD:87:PRO:HA	3:AD:90:PHE:CD2	2.53	0.43
3:AD:275:SER:O	3:AD:279:GLN:NE2	2.51	0.43
3:AH:12:CYS:O	3:AH:16:ILE:HG12	2.18	0.43
4:AK:31:GLN:N	4:AK:31:GLN:OE1	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AL:46:ARG:HH22	4:AM:73:THR:HA	1.83	0.43
3:AL:318:ARG:C	3:AL:321:MET:HE1	2.43	0.43
4:AM:36:MET:HG3	4:AM:41:THR:OG1	2.17	0.43
4:AM:304:LYS:HA	26:N4:81:HIS:ND1	2.33	0.43
5:B3:140:GLU:O	5:B3:144:ILE:HG13	2.18	0.43
5:B6:138:LEU:O	5:B6:142:GLU:HG2	2.19	0.43
5:B6:267:LYS:HE2	5:B6:270:ARG:HE	1.83	0.43
5:B8:203:VAL:HG23	8:D7:118:GLN:HE22	1.83	0.43
3:BB:394:PHE:HD1	3:BB:397:TRP:CZ3	2.36	0.43
3:BD:77:ARG:HH12	3:BD:87:PRO:HD3	1.82	0.43
4:BE:66:VAL:HG12	4:BE:68:VAL:HG13	2.00	0.43
3:BF:246:LEU:HD22	3:BF:354:CYS:HA	2.00	0.43
3:BH:39:ASP:OD1	3:BH:43:GLN:NE2	2.50	0.43
7:C2:344:ASN:C	10:E1:177:ARG:HH22	2.26	0.43
7:C3:246:SER:N	11:Fl:235:ARG:HH22	2.16	0.43
7:C3:247:ASP:O	7:C3:251:GLN:HG3	2.18	0.43
7:C4:146:LEU:HD23	7:C4:146:LEU:HA	1.88	0.43
7:C4:293:THR:HG21	7:C5:413:ARG:H	1.82	0.43
7:C6:274:LEU:HD21	7:C7:398:THR:HG22	1.99	0.43
7:C7:255:GLU:HA	7:C7:258:LEU:HD12	1.98	0.43
7:C7:285:ARG:HA	10:E2:27:TYR:OH	2.17	0.43
7:C9:373:PHE:O	7:C9:377:MET:HE3	2.19	0.43
4:CC:135:PHE:CE2	4:CC:166:LYS:HE3	2.53	0.43
4:CC:160:ASP:OD1	4:CC:161:TYR:N	2.51	0.43
4:CC:176:GLN:NE2	4:CC:207:GLU:OE2	2.51	0.43
4:CC:280:LYS:HD2	4:CC:280:LYS:HA	1.77	0.43
4:CC:433:GLU:O	4:CC:437:VAL:N	2.44	0.43
3:CD:23:VAL:O	3:CD:27:GLU:N	2.39	0.43
3:CD:46:ARG:NH2	4:CE:73:THR:HA	2.33	0.43
3:CD:60:VAL:HG23	3:CD:86:ARG:NH1	2.27	0.43
4:CE:3:GLU:N	4:CE:133:GLN:OE1	2.51	0.43
4:CE:137:ILE:HB	4:CE:168:GLU:HA	2.00	0.43
4:CE:214:ARG:HA	4:CE:219:ILE:H	1.82	0.43
4:CE:310:GLY:HA3	4:CE:383:ALA:HB2	2.01	0.43
4:CE:318:LEU:O	4:CE:375:VAL:HA	2.18	0.43
3:CF:24:ILE:HA	3:CF:27:GLU:HG3	2.00	0.43
3:CH:41:ASP:N	3:CH:41:ASP:OD1	2.51	0.43
3:CH:376:GLU:HA	3:CH:379:LYS:HB3	2.00	0.43
4:CI:324:VAL:HG11	3:CJ:219:THR:HB	1.99	0.43
3:CJ:73:MET:HA	3:CJ:76:VAL:HB	2.01	0.43
3:CJ:91:VAL:HG11	3:CJ:116:VAL:HG12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CJ:318:ARG:HD3	3:CJ:358:PRO:HG3	2.00	0.43
4:CK:75:VAL:HG23	4:CK:92:LEU:HD12	2.00	0.43
4:CK:88:HIS:HA	4:DI:283:HIS:HE1	1.81	0.43
4:CM:167:LEU:HB3	4:CM:169:PHE:CE1	2.53	0.43
7:Cb:131:LYS:O	7:Cb:134:GLN:HG3	2.18	0.43
7:Cc:404:THR:OG1	10:E3:5:ARG:NH2	2.47	0.43
7:Cd:157:LYS:O	7:Cd:161:THR:HG23	2.18	0.43
8:D2:169:ARG:HD2	8:D2:169:ARG:HA	1.75	0.43
8:D7:152:ALA:HA	8:D7:155:ASN:OD1	2.18	0.43
8:D7:309:GLN:NE2	8:D7:313:ASP:OD2	2.51	0.43
4:DA:90:GLU:HG2	4:DA:121:ARG:CZ	2.48	0.43
4:DA:389:ALA:HA	4:DA:392:ASP:OD2	2.18	0.43
4:DC:306:ASP:OD2	4:DC:309:HIS:ND1	2.51	0.43
3:DF:325:GLU:O	3:DF:329:GLN:HG2	2.18	0.43
4:DI:210:TYR:OH	4:DI:221:ARG:NH2	2.51	0.43
4:DI:405:VAL:O	4:DI:409:VAL:HG22	2.18	0.43
4:DI:433:GLU:O	4:DI:437:VAL:N	2.44	0.43
3:DL:219:THR:H	13:G3:281:ARG:HH22	1.66	0.43
10:E1:25:HIS:CG	10:E1:26:LEU:N	2.85	0.43
10:E2:139:TRP:CZ2	10:E2:141:ASP:HB2	2.52	0.43
4:EC:263:PRO:HB2	4:EC:264:ARG:NH1	2.33	0.43
4:EC:396:ASP:O	4:EC:400:ALA:N	2.49	0.43
3:ED:150:LEU:O	3:ED:153:SER:OG	2.32	0.43
4:EE:10:GLY:HA2	4:EE:145:THR:OG1	2.18	0.43
3:EF:26:ASP:OD1	3:EF:27:GLU:N	2.51	0.43
3:EJ:175:VAL:HG22	3:EJ:177:ASP:H	1.83	0.43
4:EK:346:TRP:CH2	4:EK:435:VAL:HA	2.52	0.43
3:EL:114:ASP:N	3:EL:114:ASP:OD1	2.50	0.43
9:F:320:PRO:HG2	9:F:321:PRO:HD3	1.99	0.43
11:F1:245:ASP:O	11:F1:248:HIS:HB2	2.17	0.43
11:F1:373:ASN:O	11:F1:376:MET:HG3	2.18	0.43
11:F2:470:MET:HA	11:F2:473:ARG:CZ	2.48	0.43
11:F5:166:GLU:O	11:F5:170:MET:HE3	2.18	0.43
11:F5:226:GLN:HB2	11:F5:230:ARG:HH12	1.82	0.43
11:F8:322:GLU:O	11:F8:326:GLU:OE1	2.36	0.43
11:F9:338:ASN:O	11:F9:341:LEU:HG	2.18	0.43
11:F9:422:THR:O	11:F9:426:THR:HG23	2.18	0.43
3:FB:131:GLN:HB3	3:FB:163:ILE:HD12	1.98	0.43
3:FB:211:CYS:O	3:FB:216:LYS:N	2.48	0.43
3:FB:344:TRP:CD1	4:FC:401:LYS:HD2	2.51	0.43
4:FC:346:TRP:HH2	4:FC:435:VAL:HA	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FC:363:VAL:H	4:FC:368:LEU:HD21	1.83	0.43
3:FD:97:ALA:C	3:FD:99:ASN:N	2.75	0.43
3:FD:309:ARG:NH1	3:FD:342:VAL:HA	2.32	0.43
3:FD:337:ASN:HD22	3:FD:340:TYR:HD2	1.66	0.43
4:FE:145:THR:HG1	39:FE:501:GTP:PB	2.40	0.43
4:FE:192:HIS:CE1	4:FE:193:THR:HG23	2.53	0.43
3:FF:46:ARG:HH22	4:FG:73:THR:HA	1.82	0.43
3:FH:106:TYR:HB2	3:FH:401:GLU:OE2	2.18	0.43
3:FH:152:ILE:O	3:FH:156:ARG:HG2	2.18	0.43
3:FH:292:GLN:HA	3:FH:295:ASP:OD2	2.18	0.43
4:FI:88:HIS:HB3	4:FI:91:GLN:HG2	2.00	0.43
4:FI:102:ASN:HB3	4:FI:105:ARG:HB2	1.99	0.43
4:FI:116:ASP:N	4:FI:116:ASP:OD1	2.51	0.43
3:FJ:156:ARG:NE	3:FJ:164:MET:HE3	2.32	0.43
3:FJ:239:CYS:SG	3:FJ:248:ALA:HA	2.58	0.43
4:FK:333:ALA:HA	4:FK:336:LYS:HG2	1.99	0.43
11:Fb:97:ARG:O	11:Fb:101:LEU:HG	2.18	0.43
11:Fc:187:PRO:HG3	11:Fc:477:PRO:HG2	2.00	0.43
11:Fe:177:LEU:HD21	11:Fe:233:ALA:HB2	1.99	0.43
11:Fe:188:LEU:HD21	11:Fe:226:GLN:HE22	1.83	0.43
11:Fe:447:THR:O	11:Fe:450:ARG:HD3	2.17	0.43
11:Ff:400:THR:O	11:Ff:401:ARG:HG3	2.18	0.43
11:Fg:385:LYS:HZ3	11:Fg:426:THR:C	2.25	0.43
11:Fj:184:VAL:O	11:Fj:187:PRO:HD2	2.17	0.43
11:Fj:373:ASN:O	11:Fj:376:MET:HG3	2.18	0.43
11:Fk:443:LEU:O	11:Fk:447:THR:HG23	2.18	0.43
11:Fl:227:ASP:O	11:Fl:231:LYS:N	2.42	0.43
11:Fl:470:MET:O	11:Fl:474:LYS:HG3	2.18	0.43
12:G:340:LYS:HB3	12:G:340:LYS:HE3	1.81	0.43
14:G5:135:ARG:HB3	14:G5:146:PHE:CD2	2.52	0.43
14:G6:575:LYS:HA	14:G6:734:ARG:HD2	2.00	0.43
14:G6:746:GLU:N	14:G6:750:LEU:O	2.50	0.43
4:GA:263:PRO:O	4:GA:264:ARG:HB2	2.18	0.43
4:GC:60:LYS:HE2	4:HC:282:TYR:OH	2.18	0.43
4:GC:207:GLU:HB2	4:GC:304:LYS:HZ1	1.82	0.43
4:GC:252:LEU:HD12	4:GC:253:THR:N	2.33	0.43
4:GC:331:ALA:O	4:GC:335:ILE:HG12	2.18	0.43
4:GE:206:ASN:OD1	4:GE:206:ASN:N	2.50	0.43
4:GG:12:ALA:HB1	39:GG:501:GTP:N3	2.33	0.43
3:GH:31:ASP:OD1	3:GH:35:THR:N	2.51	0.43
4:GI:167:LEU:HD13	4:GI:200:CYS:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:GI:174:ALA:HB3	4:GI:177:VAL:O	2.18	0.43
4:GK:85:GLN:HG2	4:GK:86:LEU:HD22	2.00	0.43
4:GK:143:GLY:O	4:GK:147:SER:OG	2.32	0.43
3:GL:12:CYS:HA	39:GL:501:GTP:N3	2.33	0.43
3:GL:123:GLU:HA	3:GL:126:SER:OG	2.18	0.43
3:GL:207:LEU:HB3	3:GL:225:LEU:HD22	1.98	0.43
3:GL:345:ILE:HD12	3:GL:346:PRO:HD2	2.00	0.43
15:H1:12:PRO:O	15:H1:15:HIS:NE2	2.51	0.43
15:H1:306:ARG:O	15:H1:310:LYS:HG2	2.18	0.43
15:H3:286:MET:SD	15:H3:286:MET:N	2.91	0.43
4:HA:115:VAL:O	4:HA:119:LEU:HG	2.18	0.43
4:HC:174:ALA:HB3	4:HC:177:VAL:O	2.18	0.43
4:HC:235:VAL:HA	4:HC:238:ILE:HG12	2.00	0.43
4:HE:234:ILE:O	4:HE:237:SER:OG	2.33	0.43
3:HF:143:THR:HG22	3:HF:147:MET:CE	2.48	0.43
4:HG:214:ARG:O	23:M:143:ASP:HA	2.18	0.43
4:HG:405:VAL:O	4:HG:408:TYR:N	2.52	0.43
3:HH:172:SER:OG	3:HH:175:VAL:HG12	2.17	0.43
4:HK:401:LYS:H	4:HK:401:LYS:HG2	1.66	0.43
3:HL:100:ASN:HB3	3:HL:103:LYS:HB2	2.00	0.43
3:HL:217:LEU:C	3:HL:218:THR:HG1	2.26	0.43
3:HL:379:LYS:O	3:HL:382:SER:OG	2.17	0.43
4:IA:246:GLY:HA2	4:IA:357:TYR:HD2	1.82	0.43
3:IB:28:HIS:HD2	3:IB:43:GLN:HB2	1.82	0.43
3:IB:130:LEU:HB2	3:IB:162:ARG:NH1	2.32	0.43
3:IB:292:GLN:O	3:IB:298:ASN:ND2	2.48	0.43
4:IC:3:GLU:OE2	4:IC:130:THR:N	2.43	0.43
4:IC:188:ILE:HG22	4:IC:421:ALA:HB1	2.00	0.43
4:IC:192:HIS:CE1	4:IC:193:THR:HG23	2.53	0.43
3:ID:139:LEU:N	3:ID:168:SER:OG	2.50	0.43
3:ID:156:ARG:CZ	3:ID:164:MET:HE3	2.48	0.43
4:IE:1:MET:O	4:IE:131:GLY:HA3	2.18	0.43
4:IE:75:VAL:HA	4:IE:78:VAL:HG22	2.00	0.43
4:IE:263:PRO:O	4:IE:264:ARG:HB2	2.17	0.43
4:IE:319:TYR:HE2	4:IE:328:VAL:HG13	1.82	0.43
3:IF:224:ASP:O	3:IF:228:LEU:HG	2.18	0.43
3:IH:211:CYS:HA	3:IH:215:LEU:HD12	2.00	0.43
4:II:32:PRO:HA	4:II:83:TYR:CE1	2.53	0.43
4:II:216:ASN:HD21	4:II:275:VAL:HG23	1.83	0.43
3:IJ:2:ARG:HH12	3:IJ:251:ARG:HE	1.66	0.43
3:IJ:31:ASP:OD1	3:IJ:35:THR:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IJ:270:PHE:H	3:IJ:300:MET:HE1	1.82	0.43
4:IK:75:VAL:HA	4:IK:78:VAL:HG12	1.99	0.43
4:IK:88:HIS:CD2	4:IK:90:GLU:HG2	2.53	0.43
4:IK:263:PRO:HB2	4:IK:264:ARG:NH1	2.32	0.43
19:J3:88:ALA:HA	19:J3:91:ILE:HD13	1.98	0.43
19:J3:146:ASN:OD1	19:J3:176:PRO:HD3	2.18	0.43
4:JA:54:SER:N	4:JA:62:VAL:O	2.51	0.43
3:JB:28:HIS:ND1	3:JB:43:GLN:HB2	2.33	0.43
4:JC:216:ASN:ND2	4:JC:275:VAL:O	2.51	0.43
3:JD:347:ASN:HB3	4:JE:178:SER:HB3	2.00	0.43
4:JE:420:GLU:HA	4:JE:423:GLU:OE2	2.18	0.43
3:JF:182:PRO:HG2	3:JF:388:MET:HE1	1.99	0.43
3:JF:217:LEU:HD11	3:JF:220:PRO:HB3	1.99	0.43
3:JF:238:THR:HG21	3:JF:318:ARG:NH1	2.33	0.43
3:JF:324:LYS:HE2	4:JG:222:PRO:CD	2.48	0.43
3:JF:372:THR:HB	3:JF:375:GLN:HE22	1.83	0.43
3:JF:374:ILE:O	3:JF:377:LEU:HB2	2.18	0.43
3:JH:49:VAL:HG13	3:JH:50:TYR:CD2	2.52	0.43
4:JK:271:THR:N	4:JK:377:MET:O	2.51	0.43
4:JK:423:GLU:HA	4:JK:426:ALA:HB3	2.00	0.43
3:JL:52:ASN:OD1	3:JL:62:ARG:NH1	2.50	0.43
3:JL:183:TYR:N	3:JL:388:MET:HE1	2.33	0.43
21:K3:174:ILE:HD11	21:K3:464:ARG:HG2	1.99	0.43
21:K3:383:LEU:HA	4:LI:339:ARG:NH2	2.33	0.43
21:K5:18:ALA:HB1	21:K5:20:GLU:OE2	2.17	0.43
3:KB:11:GLN:O	3:KB:15:GLN:HG3	2.18	0.43
3:KB:357:PRO:O	3:KB:359:ARG:NH1	2.50	0.43
4:KC:160:ASP:OD1	4:KC:161:TYR:N	2.51	0.43
3:KD:374:ILE:HG22	3:KD:378:PHE:CE2	2.53	0.43
4:KG:90:GLU:N	4:KG:90:GLU:OE1	2.49	0.43
4:KG:174:ALA:HB3	4:KG:177:VAL:O	2.18	0.43
4:KG:230:LEU:O	4:KG:234:ILE:HG12	2.18	0.43
4:KG:260:VAL:O	3:KH:397:TRP:HH2	2.01	0.43
4:KG:328:VAL:O	4:KG:332:ILE:HG12	2.18	0.43
3:KH:211:CYS:HA	3:KH:215:LEU:HD12	2.00	0.43
3:KH:318:ARG:C	3:KH:321:MET:HE1	2.43	0.43
4:KI:2:ARG:NH1	4:KI:241:SER:O	2.51	0.43
4:KI:9:VAL:HA	4:KI:68:VAL:HG23	1.99	0.43
4:KI:174:ALA:HB1	4:KI:207:GLU:OE2	2.17	0.43
4:KK:46:ASP:OD1	4:KK:50:ASN:ND2	2.50	0.43
4:KK:88:HIS:HB3	4:KK:91:GLN:HG2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:KK:423:GLU:HA	4:KK:426:ALA:HB3	2.00	0.43
3:KL:312:THR:OG1	3:KL:370:ASN:HB3	2.18	0.43
22:L3:223:LYS:HA	22:L3:226:ARG:HH21	1.83	0.43
4:LA:11:GLN:HB2	4:LA:74:VAL:HG11	2.00	0.43
4:LA:50:ASN:OD1	4:LA:51:THR:N	2.51	0.43
3:LB:135:LEU:O	3:LB:167:PHE:HB3	2.18	0.43
3:LB:217:LEU:O	3:LB:219:THR:N	2.48	0.43
3:LB:286:VAL:HG21	3:LB:325:GLU:HG3	2.00	0.43
4:LC:260:VAL:O	3:LD:397:TRP:HH2	2.01	0.43
3:LD:51:TYR:CD1	3:LD:61:PRO:HA	2.52	0.43
3:LD:117:LEU:HB3	3:LD:121:ARG:NH2	2.33	0.43
4:LE:174:ALA:HB3	4:LE:177:VAL:O	2.18	0.43
4:LE:405:VAL:O	4:LE:409:VAL:HG22	2.18	0.43
3:LF:41:ASP:OD1	3:LF:41:ASP:N	2.49	0.43
3:LF:87:PRO:HA	3:LF:90:PHE:CD2	2.52	0.43
4:LG:332:ILE:O	4:LG:336:LYS:HG3	2.17	0.43
4:LI:261:PRO:HA	3:LJ:394:PHE:CE1	2.53	0.43
3:LJ:247:ASN:OD1	4:LK:11:GLN:HG2	2.18	0.43
3:LJ:375:GLN:HA	3:LJ:378:PHE:CE1	2.53	0.43
3:LL:16:ILE:HD13	3:LL:226:ASN:HD22	1.83	0.43
3:LL:31:ASP:OD1	3:LL:35:THR:N	2.51	0.43
3:LL:311:LEU:HB2	3:LL:370:ASN:O	2.18	0.43
4:MC:18:ASN:ND2	4:MC:78:VAL:HG21	2.33	0.43
4:MC:46:ASP:HA	4:MC:50:ASN:HB3	2.00	0.43
4:MC:160:ASP:OD1	4:MC:161:TYR:N	2.51	0.43
4:MC:280:LYS:HD2	4:MC:280:LYS:HA	1.73	0.43
4:ME:65:ALA:C	4:ME:91:GLN:HE21	2.26	0.43
3:MF:222:TYR:HA	3:MF:225:LEU:HD13	2.00	0.43
4:MG:346:TRP:HB3	3:MH:391:ARG:CZ	2.48	0.43
4:MG:392:ASP:OD1	4:MG:393:HIS:N	2.51	0.43
3:MH:418:LEU:HA	3:MH:421:GLU:HB3	1.99	0.43
4:MI:88:HIS:HB3	4:MI:91:GLN:HB2	1.98	0.43
3:MJ:132:GLY:HA3	3:MJ:163:ILE:H	1.82	0.43
3:MJ:175:VAL:HG22	3:MJ:177:ASP:H	1.82	0.43
3:MJ:247:ASN:OD1	4:MK:11:GLN:HG2	2.18	0.43
4:MK:174:ALA:HB1	4:MK:207:GLU:OE2	2.18	0.43
4:MK:351:PHE:CZ	3:ML:175:VAL:HG23	2.54	0.43
3:ML:141:GLY:CA	39:ML:501:GTP:H5"	2.48	0.43
3:ML:173:PRO:HD2	3:ML:205:GLU:CD	2.43	0.43
25:N:63:SER:HA	25:N:66:GLN:HE22	1.83	0.43
26:N1:80:ASN:O	26:N1:84:GLY:N	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:NA:210:TYR:O	4:NA:213:CYS:HB2	2.18	0.43
4:NC:208:ALA:H	4:NC:304:LYS:NZ	2.14	0.43
3:ND:203:ASP:O	3:ND:207:LEU:HG	2.18	0.43
3:ND:246:LEU:HD22	3:ND:354:CYS:HA	2.00	0.43
3:ND:357:PRO:O	3:ND:359:ARG:NH1	2.49	0.43
4:NE:167:LEU:HB3	4:NE:169:PHE:CZ	2.53	0.43
3:NF:309:ARG:HE	3:NF:426:GLN:HE21	1.65	0.43
4:NG:47:ASP:HB3	4:NG:49:PHE:CE2	2.53	0.43
3:NH:11:GLN:HG3	39:NH:501:GTP:O5'	2.18	0.43
3:NH:375:GLN:HA	3:NH:378:PHE:CE1	2.53	0.43
4:NI:292:THR:HA	4:NI:295:CYS:SG	2.58	0.43
28:O3:41:ILE:HD12	28:O3:41:ILE:HA	1.76	0.43
4:OA:246:GLY:HA2	4:OA:357:TYR:CD2	2.52	0.43
4:OA:420:GLU:HA	4:OA:423:GLU:OE2	2.17	0.43
4:OC:163:LYS:HD3	4:OC:163:LYS:HA	1.70	0.43
3:OD:145:SER:HB2	3:OD:188:SER:HB3	2.00	0.43
3:OD:156:ARG:HD2	3:OD:156:ARG:HA	1.86	0.43
3:OD:414:ASN:O	3:OD:418:LEU:HG	2.17	0.43
4:OG:331:ALA:O	4:OG:335:ILE:HG12	2.18	0.43
3:OH:12:CYS:HA	39:OH:501:GTP:HN22	1.82	0.43
3:OH:32:PRO:C	3:OH:83:GLN:HE21	2.25	0.43
4:OI:202:PHE:CD1	4:OI:268:PRO:HD2	2.53	0.43
4:OI:362:VAL:HA	4:OI:368:LEU:HD21	1.99	0.43
3:OL:397:TRP:O	3:OL:401:GLU:N	2.43	0.43
29:P2:192:ARG:NH2	4:VG:37:PRO:HB3	2.33	0.43
29:P3:298:LEU:HA	29:P3:305:PHE:CB	2.47	0.43
4:PA:9:VAL:CG1	4:PA:139:HIS:HB3	2.48	0.43
4:PA:265:ILE:HD12	4:PA:432:TYR:CE1	2.53	0.43
4:PA:422:ARG:O	4:PA:426:ALA:N	2.29	0.43
4:PC:163:LYS:HA	4:PC:163:LYS:HD3	1.76	0.43
3:PD:5:VAL:HG23	3:PD:130:LEU:HD21	1.99	0.43
4:PE:50:ASN:OD1	4:PE:51:THR:N	2.51	0.43
4:PE:88:HIS:HB3	4:PE:91:GLN:HB2	2.00	0.43
3:PF:47:ILE:HG12	3:PF:59:TYR:CD2	2.52	0.43
3:PF:192:LEU:O	3:PF:196:THR:HG22	2.18	0.43
4:PG:375:VAL:HG13	4:PG:377:MET:SD	2.58	0.43
3:PH:130:LEU:HB2	3:PH:162:ARG:NH1	2.32	0.43
3:PH:258:VAL:HB	4:PI:407:TRP:CZ2	2.53	0.43
4:PK:280:LYS:HD2	4:PK:280:LYS:HA	1.77	0.43
3:PL:77:ARG:HA	3:PL:77:ARG:HD2	1.87	0.43
3:PL:318:ARG:C	3:PL:321:MET:HE1	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:QC:408:TYR:CD2	4:QC:418:PHE:HZ	2.36	0.43
3:QD:172:SER:OG	3:QD:205:GLU:OE2	2.18	0.43
4:QE:118:VAL:HA	4:QE:121:ARG:HG2	2.00	0.43
3:QF:378:PHE:HA	3:QF:381:ILE:HG22	1.99	0.43
4:QI:176:GLN:NE2	4:QI:207:GLU:OE2	2.50	0.43
4:QI:286:LEU:HD11	4:QI:372:GLN:H	1.83	0.43
3:QJ:317:PHE:O	3:QJ:354:CYS:N	2.32	0.43
3:QJ:344:TRP:HD1	4:QK:401:LYS:HD2	1.82	0.43
3:RB:261:PRO:HD3	4:RC:406:HIS:CG	2.52	0.43
4:RK:119:LEU:HB3	4:RK:123:ARG:NH2	2.32	0.43
4:RK:182:VAL:HA	4:RK:185:TYR:CD2	2.40	0.43
3:RL:118:ASP:OD1	3:RL:121:ARG:NH1	2.51	0.43
32:S:401:ARG:HA	32:S:401:ARG:HD3	1.86	0.43
4:SC:1:MET:O	4:SC:133:GLN:NE2	2.36	0.43
4:SC:119:LEU:HA	4:SC:122:ILE:HD12	2.00	0.43
4:SC:213:CYS:O	4:SC:218:ASP:N	2.51	0.43
4:SC:235:VAL:HA	4:SC:238:ILE:HG12	1.99	0.43
4:SC:386:GLU:HA	4:SC:389:ALA:HB3	2.00	0.43
3:SD:223:GLY:O	3:SD:227:HIS:N	2.48	0.43
4:SE:68:VAL:HG12	4:SE:93:ILE:HB	2.00	0.43
4:SE:160:ASP:OD1	4:SE:161:TYR:N	2.51	0.43
4:SE:208:ALA:HA	4:SE:211:ASP:HB2	2.00	0.43
3:SF:345:ILE:HD12	4:SG:398:MET:CE	2.47	0.43
3:SH:81:PHE:O	3:SH:84:ILE:HG22	2.17	0.43
3:SH:118:ASP:O	3:SH:122:LYS:HG3	2.18	0.43
3:SH:402:GLY:C	3:SH:403:MET:HE2	2.43	0.43
4:SI:349:THR:HG23	3:SJ:179:VAL:HA	1.99	0.43
3:SJ:135:LEU:O	3:SJ:167:PHE:N	2.48	0.43
4:SK:216:ASN:OD1	4:SK:217:LEU:N	2.50	0.43
3:SL:191:GLN:O	3:SL:194:GLU:HG2	2.18	0.43
3:SL:423:GLN:O	3:SL:427:ASP:N	2.46	0.43
4:SM:72:PRO:HA	4:SM:75:VAL:HG12	2.00	0.43
3:TB:51:TYR:HD2	3:TB:59:TYR:HB3	1.82	0.43
3:TB:214:THR:HG21	3:TB:273:LEU:HB3	1.99	0.43
3:TD:51:TYR:CD1	3:TD:61:PRO:HA	2.53	0.43
3:TD:398:TYR:HB3	3:TD:403:MET:HB2	2.01	0.43
4:TE:102:ASN:HD22	4:TE:105:ARG:HG3	1.83	0.43
4:TE:224:TYR:CE1	39:TE:501:GTP:C5	3.04	0.43
4:TE:427:ALA:O	4:TE:431:ASP:N	2.39	0.43
3:TF:323:MET:SD	3:TF:323:MET:N	2.91	0.43
4:TG:11:GLN:HG3	39:TG:501:GTP:O1B	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:TG:116:ASP:OD1	4:TG:116:ASP:N	2.50	0.43
4:TG:245:ASP:O	4:TG:356:ASN:ND2	2.51	0.43
4:TK:192:HIS:CE1	4:TK:193:THR:HG23	2.53	0.43
4:TK:203:MET:HE3	4:TK:267:PHE:CE2	2.53	0.43
3:TL:15:GLN:HB3	3:TL:16:ILE:CG1	2.32	0.43
3:TL:46:ARG:NH2	3:TL:243:PRO:HD3	2.33	0.43
3:TL:81:PHE:O	3:TL:84:ILE:HG22	2.18	0.43
4:TM:210:TYR:HE1	4:TM:227:LEU:HD11	1.83	0.43
3:TN:2:ARG:HB3	3:TN:131:GLN:NE2	2.33	0.43
3:TN:426:GLN:NE2	3:TN:427:ASP:OD2	2.50	0.43
33:U:301:LEU:O	33:U:304:ARG:HG3	2.17	0.43
4:UE:176:GLN:NE2	4:UE:207:GLU:OE2	2.50	0.43
3:UF:258:VAL:O	4:UG:407:TRP:NE1	2.44	0.43
3:UF:324:LYS:HD3	4:UG:210:TYR:CE1	2.53	0.43
4:UG:5:ILE:HD13	4:UG:64:ARG:HB3	2.00	0.43
4:UG:192:HIS:CE1	4:UG:193:THR:HG23	2.53	0.43
4:UG:262:TYR:OH	3:UH:391:ARG:HG2	2.17	0.43
4:UG:346:TRP:CH2	4:UG:435:VAL:HA	2.53	0.43
3:UH:267:MET:HG3	3:UH:369:GLY:O	2.18	0.43
4:UI:246:GLY:HA3	4:UI:355:ILE:O	2.18	0.43
4:UK:192:HIS:CE1	4:UK:193:THR:HG23	2.53	0.43
4:UK:274:PRO:HG3	4:UK:374:ALA:HA	2.00	0.43
3:UL:253:LEU:HB3	3:UL:257:MET:HE2	2.00	0.43
4:VA:116:ASP:N	4:VA:116:ASP:OD1	2.46	0.43
3:VB:173:PRO:HD3	3:VB:203:ASP:OD1	2.18	0.43
3:VB:378:PHE:CD1	3:VB:419:VAL:HG22	2.53	0.43
4:VC:285:GLN:NE2	4:VC:286:LEU:O	2.51	0.43
4:VC:411:GLU:OE2	4:VC:413:MET:HE1	2.18	0.43
3:VD:121:ARG:HA	3:VD:124:ALA:HB3	1.99	0.43
3:VD:261:PRO:HD3	4:VE:406:HIS:CG	2.53	0.43
4:VE:216:ASN:ND2	4:VE:275:VAL:HG23	2.33	0.43
3:VF:189:VAL:HA	3:VF:192:LEU:HD12	1.99	0.43
4:VG:370:LYS:HD3	33:W:207:ARG:HB2	2.00	0.43
3:VH:410:GLU:HA	3:VH:413:SER:HB3	2.00	0.43
4:VI:103:TYR:HB2	4:VI:186:ASN:CB	2.48	0.43
4:VI:174:ALA:HB3	4:VI:177:VAL:O	2.18	0.43
3:VJ:174:LYS:HG3	3:VJ:175:VAL:HG12	1.99	0.43
4:VK:76:ASP:OD1	4:VK:79:ARG:NH1	2.51	0.43
4:VK:208:ALA:N	4:VK:304:LYS:HZ1	2.12	0.43
33:W:250:ARG:O	33:W:254:ARG:NE	2.51	0.43
4:WA:116:ASP:HA	4:WA:119:LEU:HD12	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WC:122:ILE:O	4:WC:126:ALA:N	2.46	0.43
3:WD:289:LEU:O	3:WD:293:MET:HG2	2.17	0.43
4:WE:397:LEU:O	4:WE:401:LYS:HG2	2.18	0.43
4:WI:320:ARG:HH12	4:WI:376:CYS:N	2.16	0.43
4:WK:117:LEU:HA	34:XF:6:PHE:HE2	1.83	0.43
3:WL:197:ASP:OD1	3:WL:198:GLU:N	2.51	0.43
34:XA:24:ILE:HD12	34:XA:24:ILE:HA	1.86	0.43
34:XC:26:ASP:OD1	34:XC:26:ASP:N	2.50	0.43
34:XD:39:ASP:O	34:XD:43:GLN:HA	2.18	0.43
34:XD:60:THR:HG23	34:XD:155:GLN:HB2	1.99	0.43
34:XE:7:GLN:HG3	34:XE:72:LYS:HG2	2.00	0.43
34:XF:132:ILE:HG23	34:XF:134:PHE:CD1	2.53	0.43
35:XI:133:LEU:O	35:XI:136:PRO:HD2	2.18	0.43
35:XK:218:ARG:HD2	35:XK:219:TYR:N	2.33	0.43
35:XL:171:LEU:HD23	35:XL:174:TYR:CE2	2.53	0.43
35:XL:209:ILE:O	35:XL:212:THR:OG1	2.29	0.43
35:XM:89:TYR:CE2	35:XM:122:GLY:HA3	2.53	0.43
36:Y:48:GLU:HA	36:Y:51:ARG:HG2	2.00	0.43
37:YB:140:LEU:HD12	37:YB:141:ILE:N	2.33	0.43
37:YC:117:TYR:CD1	37:YC:118:PRO:HA	2.52	0.43
37:YC:141:ILE:HB	37:YC:142:PRO:HD3	1.99	0.43
37:YD:113:LEU:HB2	37:YD:136:GLY:HA2	1.99	0.43
37:YE:125:LEU:HD11	37:YE:138:VAL:HG11	2.00	0.43
37:YF:110:LEU:HD12	37:YF:140:LEU:HD11	2.00	0.43
37:YK:67:ILE:HA	37:YK:70:MET:HE1	2.00	0.43
37:YL:130:ALA:HA	37:YL:134:TYR:HB2	2.00	0.43
37:YQ:25:PHE:CE2	37:YQ:29:LEU:HD11	2.53	0.43
37:YR:43:ILE:HD11	37:YR:134:TYR:CE1	2.53	0.43
37:YW:47:GLU:N	37:YW:106:GLN:OE1	2.51	0.43
38:a:49:LEU:HD23	38:a:52:LYS:HZ2	1.83	0.43
1:A:53:ARG:O	1:A:57:LEU:HG	2.18	0.43
1:A:140:GLN:HA	1:A:143:GLU:HB2	2.01	0.43
2:A2:151:ILE:O	2:A2:154:LEU:HB3	2.19	0.43
2:A3:387:GLN:HA	2:A3:391:MET:CE	2.48	0.43
3:AB:77:ARG:HA	3:AB:77:ARG:HD2	1.87	0.43
3:AB:285:THR:O	3:AB:288:GLU:HG3	2.18	0.43
4:AC:402:ARG:CZ	35:XH:234:THR:HG23	2.48	0.43
3:AD:2:ARG:HB3	3:AD:131:GLN:CD	2.43	0.43
4:AE:36:MET:HG3	4:AE:41:THR:OG1	2.17	0.43
4:AE:415:GLU:OE1	4:AE:415:GLU:N	2.46	0.43
3:AF:28:HIS:O	3:AF:43:GLN:NE2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AG:139:HIS:CD2	4:AG:170:ALA:HB2	2.53	0.43
4:AG:320:ARG:CZ	4:AG:360:PRO:HA	2.48	0.43
4:AG:398:MET:HA	4:AG:401:LYS:HG3	2.00	0.43
3:AH:72:THR:O	3:AH:75:SER:OG	2.23	0.43
4:AI:104:ALA:O	4:AI:108:TYR:N	2.48	0.43
4:AI:201:ALA:HB3	4:AI:267:PHE:CD1	2.54	0.43
4:AI:293:ASN:O	4:AI:297:GLU:N	2.51	0.43
3:AJ:282:ARG:NH2	3:AJ:292:GLN:OE1	2.27	0.43
4:AK:103:TYR:HB2	4:AK:186:ASN:HB2	1.99	0.43
1:B:373:GLU:O	1:B:377:LYS:N	2.37	0.43
5:B7:202:LYS:HB2	5:B8:315:HIS:HD2	1.83	0.43
5:B8:75:LYS:HA	5:B8:179:LYS:CE	2.46	0.43
5:B8:153:GLU:O	5:B8:156:SER:OG	2.30	0.43
4:BC:196:GLU:OE1	4:BC:196:GLU:N	2.39	0.43
3:BD:215:LEU:HD11	3:BD:228:LEU:HD11	2.00	0.43
3:BD:284:LEU:HG	3:BD:289:LEU:HD11	2.00	0.43
4:BE:89:PRO:HG3	15:H2:17:ILE:HG12	2.00	0.43
4:BE:105:ARG:O	4:BE:109:THR:OG1	2.25	0.43
4:BE:327:ASP:OD1	4:BE:328:VAL:N	2.51	0.43
4:BG:66:VAL:CA	4:BG:91:GLN:HE21	2.29	0.43
3:BH:215:LEU:HD11	3:BH:228:LEU:HD11	2.01	0.43
3:BH:313:VAL:HG12	3:BH:367:PHE:HZ	1.83	0.43
4:BI:51:THR:HG23	4:BI:52:PHE:CD2	2.53	0.43
4:BI:145:THR:OG1	39:BI:501:GTP:O1B	2.35	0.43
3:BJ:39:ASP:OD1	3:BJ:43:GLN:NE2	2.51	0.43
4:BK:176:GLN:NE2	4:BK:207:GLU:OE2	2.50	0.43
4:BM:186:ASN:OD1	4:BM:187:SER:N	2.51	0.43
4:BM:311:LYS:NZ	4:BM:343:PHE:O	2.48	0.43
4:BM:363:VAL:H	4:BM:368:LEU:HD21	1.84	0.43
4:BM:414:GLU:HG2	4:BM:417:GLU:OE1	2.18	0.43
6:C:376:THR:CG2	6:C:382:GLY:HA2	2.48	0.43
7:C2:309:LEU:HA	7:C2:312:GLN:NE2	2.34	0.43
7:C3:438:LEU:O	7:C3:441:SER:OG	2.31	0.43
7:C4:228:CYS:HB2	7:C4:232:ARG:HH12	1.83	0.43
7:C4:336:MET:SD	7:C4:337:TRP:N	2.91	0.43
7:C4:349:ASN:OD1	7:C4:350:ARG:N	2.51	0.43
7:C6:248:ARG:O	7:C6:252:HIS:ND1	2.49	0.43
7:C8:231:GLU:O	7:C8:234:ARG:HG2	2.19	0.43
7:C8:364:HIS:HA	7:C8:367:LYS:HG2	1.99	0.43
7:C8:364:HIS:HA	7:C8:367:LYS:HZ3	1.83	0.43
7:C9:438:LEU:O	7:C9:442:GLU:HG2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CC:171:ILE:HD12	4:CC:204:VAL:HG23	2.00	0.43
3:CD:174:LYS:HG2	3:CD:205:GLU:OE2	2.17	0.43
3:CD:238:THR:HG22	3:CD:241:ARG:NH2	2.33	0.43
4:CE:6:SER:HA	4:CE:136:LEU:HB2	1.99	0.43
4:CE:50:ASN:OD1	4:CE:51:THR:N	2.51	0.43
4:CE:286:LEU:HD11	4:CE:372:GLN:H	1.81	0.43
3:CF:43:GLN:OE1	3:CF:359:ARG:NH2	2.51	0.43
3:CF:66:VAL:HA	3:CF:91:VAL:O	2.18	0.43
3:CF:240:LEU:HD22	3:CF:248:ALA:HB1	1.99	0.43
4:CG:22:GLU:HG2	4:CG:83:TYR:CE2	2.53	0.43
4:CG:79:ARG:NH1	15:H3:220:GLY:O	2.51	0.43
4:CG:317:MET:SD	4:CG:317:MET:N	2.91	0.43
3:CH:152:ILE:HA	3:CH:155:ILE:HG12	1.99	0.43
3:CH:254:ALA:O	3:CH:258:VAL:HG12	2.18	0.43
3:CH:267:MET:O	3:CH:368:ILE:HD12	2.18	0.43
4:CI:12:ALA:HB1	39:CI:501:GTP:N2	2.33	0.43
3:CJ:243:PRO:HD2	3:CJ:356:ILE:HG13	2.00	0.43
3:CL:4:ILE:N	3:CL:49:VAL:O	2.46	0.43
4:CM:17:GLY:HA3	4:CM:67:PHE:HE1	1.83	0.43
4:CM:172:TYR:HB2	4:CM:203:MET:HB2	2.00	0.43
7:Ca:405:ARG:HH22	10:E1:5:ARG:HH12	1.66	0.43
7:Cb:127:LEU:O	7:Cb:131:LYS:HG2	2.18	0.43
7:Cb:406:ARG:HB3	7:Cb:410:GLU:HG2	2.00	0.43
7:Cc:161:THR:O	7:Cc:164:LEU:HG	2.18	0.43
7:Cc:179:ARG:O	7:Cc:183:ARG:HG2	2.18	0.43
7:Cc:313:SER:HB3	20:K:60:GLU:HG2	2.00	0.43
8:D2:174:VAL:O	8:D2:178:LYS:HG3	2.17	0.43
8:D2:430:CYS:O	8:D2:434:ARG:HG2	2.18	0.43
8:D3:337:ALA:HA	8:D3:340:LYS:HE2	2.00	0.43
8:D4:207:HIS:ND1	8:D4:271:GLU:OE1	2.50	0.43
8:D9:83:GLN:O	8:D9:87:GLU:HG2	2.19	0.43
4:DC:72:PRO:HA	4:DC:75:VAL:HG12	2.00	0.43
4:DC:278:ALA:O	4:DC:370:LYS:NZ	2.52	0.43
3:DD:118:ASP:HA	3:DD:121:ARG:HG2	1.99	0.43
3:DD:311:LEU:HD23	3:DD:342:VAL:HG11	2.00	0.43
4:DE:105:ARG:HG2	4:DE:109:THR:HG21	1.99	0.43
4:DG:263:PRO:HB2	4:DG:264:ARG:NH1	2.33	0.43
4:DG:401:LYS:H	4:DG:401:LYS:HG2	1.64	0.43
3:DH:12:CYS:SG	39:DH:501:GTP:H5'	2.58	0.43
4:DI:260:VAL:HG23	4:DI:265:ILE:O	2.18	0.43
4:DI:265:ILE:HB	4:DI:432:TYR:HE1	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DJ:11:GLN:O	3:DJ:14:ASN:HB2	2.18	0.43
3:DJ:91:VAL:HG11	3:DJ:116:VAL:HG12	2.00	0.43
3:DJ:295:ASP:HB2	3:DJ:298:ASN:HB2	1.99	0.43
4:DK:182:VAL:O	4:DK:185:TYR:HB2	2.17	0.43
3:DL:182:PRO:HA	3:DL:381:ILE:HD11	2.00	0.43
9:E:416:VAL:O	9:E:419:THR:HG23	2.19	0.43
9:E:774:HIS:HA	3:IH:360:GLY:HA3	2.00	0.43
10:E1:3:ASN:HA	10:E1:6:ARG:NH2	2.33	0.43
3:EB:33:THR:O	3:EB:58:LYS:NZ	2.43	0.43
4:EE:251:ASP:HB3	4:EE:254:GLU:OE1	2.18	0.43
4:EE:259:LEU:HD13	4:EE:314:ALA:HB1	2.00	0.43
4:EE:411:GLU:OE2	4:EE:413:MET:HE1	2.18	0.43
3:EF:378:PHE:HA	3:EF:381:ILE:HG12	1.99	0.43
4:EG:1:MET:N	4:EG:130:THR:OG1	2.52	0.43
4:EI:38:SER:OG	14:G6:526:ASP:OD1	2.32	0.43
4:EI:254:GLU:OE1	4:EI:254:GLU:N	2.47	0.43
4:EI:272:TYR:CE1	4:EI:374:ALA:HB1	2.53	0.43
4:EI:324:VAL:HG21	3:EJ:219:THR:HG22	1.99	0.43
3:EJ:292:GLN:HA	3:EJ:295:ASP:OD2	2.18	0.43
3:EJ:311:LEU:HD23	3:EJ:342:VAL:HG11	2.00	0.43
4:EK:268:PRO:HB2	4:EK:378:LEU:HD11	1.99	0.43
3:EL:51:TYR:CD1	3:EL:61:PRO:HA	2.53	0.43
9:F:319:TYR:HB3	9:F:321:PRO:HD2	1.99	0.43
11:F1:429:THR:O	11:F1:433:ARG:HG2	2.18	0.43
11:F2:428:GLN:NE2	11:F2:429:THR:HG23	2.34	0.43
11:F3:368:ILE:HG13	11:F3:369:PHE:N	2.33	0.43
11:F4:272:SER:O	11:F4:273:THR:OG1	2.28	0.43
11:F5:161:ASP:OD1	11:F5:162:ARG:N	2.51	0.43
11:F5:175:ARG:O	11:F5:178:GLU:HG3	2.18	0.43
11:F6:238:PHE:O	11:F6:241:ARG:HG2	2.18	0.43
11:F6:387:TYR:HB3	11:F6:388:PRO:HD3	1.99	0.43
11:F7:226:GLN:O	11:F7:229:MET:HG3	2.18	0.43
11:F7:419:GLU:O	11:F7:423:ILE:HG12	2.18	0.43
4:FA:252:LEU:HA	4:FA:255:PHE:CD2	2.46	0.43
3:FB:209:ASP:O	3:FB:213:ARG:HG2	2.17	0.43
3:FB:324:LYS:HD3	4:FC:210:TYR:HE1	1.82	0.43
4:FC:2:ARG:HA	4:FC:133:GLN:NE2	2.33	0.43
4:FC:427:ALA:HA	4:FC:430:LYS:HG2	2.00	0.43
3:FD:234:SER:O	3:FD:238:THR:HG23	2.18	0.43
3:FF:6:HIS:HB2	3:FF:134:GLN:NE2	2.33	0.43
3:FF:31:ASP:OD2	3:FF:35:THR:OG1	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FF:325:GLU:HA	3:FF:328:GLU:HG3	2.00	0.43
4:FG:187:SER:O	4:FG:190:THR:OG1	2.29	0.43
4:FI:160:ASP:OD1	4:FI:161:TYR:N	2.51	0.43
4:FI:263:PRO:O	4:FI:264:ARG:HB2	2.18	0.43
3:FL:182:PRO:HB2	3:FL:388:MET:HE1	1.99	0.43
11:Fa:95:TRP:O	11:Fa:98:SER:OG	2.32	0.43
11:Fa:426:THR:HG22	11:Fb:127:LYS:HE3	2.00	0.43
11:Fc:127:LYS:HA	11:Fc:130:LEU:HD12	1.99	0.43
11:Fc:164:LEU:HD12	11:Fi:158:TYR:HE1	1.83	0.43
11:Fi:385:LYS:HD3	11:Fi:430:LEU:HD12	1.99	0.43
11:Fk:124:MET:HB3	11:Fk:318:ARG:NH2	2.33	0.43
11:Fm:254:ILE:HA	11:Fm:257:LYS:HG2	2.00	0.43
11:Fm:387:TYR:HB3	11:Fm:388:PRO:HD3	2.00	0.43
13:G1:489:ASP:OD1	13:G1:490:PHE:N	2.51	0.43
13:G2:131:MET:HE2	13:G2:154:PHE:H	1.83	0.43
14:G4:509:ILE:HD12	14:G4:597:GLN:HA	2.00	0.43
14:G4:692:ILE:O	14:G4:696:VAL:HG23	2.18	0.43
14:G4:714:LYS:HA	14:G4:720:VAL:HG22	1.99	0.43
14:G5:712:TYR:O	14:G5:718:GLU:HG2	2.18	0.43
14:G6:566:PHE:HD1	14:G6:735:TYR:CE1	2.36	0.43
3:GB:72:THR:O	3:GB:76:VAL:HG22	2.18	0.43
3:GB:130:LEU:HB2	3:GB:162:ARG:NH1	2.32	0.43
4:GC:251:ASP:HB3	4:GC:254:GLU:OE1	2.18	0.43
3:GD:324:LYS:HE2	4:GE:222:PRO:HG2	2.00	0.43
4:GE:273:ALA:O	4:GE:275:VAL:N	2.46	0.43
4:GE:386:GLU:O	4:GE:390:ARG:N	2.40	0.43
3:GF:278:SER:HB2	3:GF:282:ARG:HG2	2.00	0.43
4:GG:429:GLU:O	4:GG:432:TYR:N	2.47	0.43
3:GH:279:GLN:HG2	3:GH:280:GLN:N	2.34	0.43
4:GI:154:MET:HE2	4:GI:194:THR:HG22	1.99	0.43
4:GI:391:LEU:HB3	4:GI:395:PHE:HE2	1.83	0.43
4:GI:423:GLU:HA	4:GI:426:ALA:HB3	1.99	0.43
3:GJ:303:CYS:O	3:GJ:305:PRO:HD3	2.18	0.43
4:GK:88:HIS:O	4:GK:91:GLN:HG2	2.18	0.43
4:GK:309:HIS:NE2	4:GK:386:GLU:OE2	2.51	0.43
3:GL:2:ARG:HA	3:GL:129:CYS:O	2.18	0.43
3:GL:47:ILE:HG13	3:GL:51:TYR:HB2	2.00	0.43
3:GL:217:LEU:O	3:GL:219:THR:N	2.50	0.43
15:H1:43:LEU:O	15:H1:46:PRO:HD3	2.17	0.43
15:H2:13:GLU:CG	15:H2:14:PRO:HA	2.48	0.43
15:H2:290:PRO:HB2	15:H2:315:ARG:CZ	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HA:207:GLU:HB2	4:HA:304:LYS:NZ	2.32	0.43
4:HA:312:TYR:HB2	4:HA:343:PHE:CD1	2.53	0.43
3:HB:81:PHE:HD1	3:HB:84:ILE:HG13	1.83	0.43
3:HB:150:LEU:C	3:HB:154:LYS:HZ3	2.26	0.43
4:HC:331:ALA:O	4:HC:335:ILE:HG12	2.18	0.43
3:HD:319:GLY:HA2	3:HD:357:PRO:HG3	2.00	0.43
4:HE:3:GLU:CD	4:HE:132:LEU:H	2.26	0.43
3:HF:217:LEU:O	3:HF:219:THR:N	2.51	0.43
3:HF:350:LYS:CE	4:HG:181:VAL:HG22	2.48	0.43
3:HH:101:TRP:HB2	3:HH:184:ASN:HD22	1.83	0.43
3:HH:311:LEU:H	3:HH:371:SER:HA	1.83	0.43
4:HI:316:CYS:O	4:HI:378:LEU:N	2.46	0.43
4:IA:311:LYS:NZ	4:IA:343:PHE:O	2.49	0.43
3:IB:19:LYS:HD3	3:IB:22:GLU:OE2	2.18	0.43
3:ID:12:CYS:HA	3:ID:15:GLN:OE1	2.19	0.43
3:ID:232:THR:HG22	3:ID:270:PHE:CD1	2.53	0.43
3:ID:324:LYS:HE2	4:IE:222:PRO:HG2	2.01	0.43
4:IE:190:THR:O	4:IE:193:THR:OG1	2.34	0.43
4:IE:402:ARG:HB2	4:IE:405:VAL:HG11	1.99	0.43
3:IF:325:GLU:O	3:IF:329:GLN:HG2	2.18	0.43
4:II:202:PHE:O	4:II:203:MET:HE2	2.18	0.43
3:IJ:171:PRO:HG3	3:IJ:181:GLU:OE2	2.18	0.43
4:IM:344:VAL:HB	4:IM:346:TRP:CE3	2.53	0.43
4:JA:2:ARG:HA	4:JA:133:GLN:NE2	2.33	0.43
4:JA:105:ARG:HG2	4:JA:109:THR:HG21	1.99	0.43
4:JA:301:GLN:OE1	4:JA:301:GLN:N	2.48	0.43
3:JB:134:GLN:OE1	3:JB:134:GLN:N	2.50	0.43
3:JB:266:PHE:HD1	3:JB:370:ASN:HB2	1.83	0.43
3:JB:272:PRO:HA	3:JB:292:GLN:OE1	2.17	0.43
4:JC:185:TYR:OH	4:JC:403:ALA:O	2.27	0.43
3:JD:155:ILE:HA	3:JD:158:GLU:HG2	1.99	0.43
4:JG:260:VAL:HG23	4:JG:265:ILE:O	2.18	0.43
3:JJ:217:LEU:O	3:JJ:219:THR:N	2.51	0.43
4:JK:81:GLY:O	4:JK:84:ARG:NH1	2.51	0.43
20:K:62:GLY:O	20:K:216:ALA:N	2.41	0.43
20:K:108:LEU:HD23	20:K:158:LEU:HD21	2.00	0.43
21:K1:357:MET:O	21:K1:361:ILE:HG13	2.18	0.43
21:K2:30:ARG:O	21:K2:34:LEU:HG	2.18	0.43
21:K3:201:TRP:HZ3	21:K3:331:ARG:HH22	1.66	0.43
21:K4:476:GLN:OE1	21:K4:476:GLN:N	2.39	0.43
21:K5:19:PRO:HA	21:K5:22:ARG:HE	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:KA:137:ILE:N	4:KA:167:LEU:O	2.46	0.43
3:KB:378:PHE:CD1	3:KB:419:VAL:HG22	2.53	0.43
4:KC:101:ASN:HA	4:KC:144:GLY:HA2	2.00	0.43
4:KC:278:ALA:O	4:KC:370:LYS:NZ	2.51	0.43
3:KD:299:MET:SD	3:KD:304:ASP:HA	2.58	0.43
4:KE:280:LYS:HD2	4:KE:280:LYS:HA	1.75	0.43
3:KF:7:LEU:HB2	3:KF:135:LEU:HG	2.00	0.43
3:KF:31:ASP:N	3:KF:31:ASP:OD1	2.51	0.43
3:KH:173:PRO:HD3	3:KH:203:ASP:OD1	2.18	0.43
4:KI:11:GLN:HG3	39:KI:501:GTP:O1B	2.18	0.43
3:KJ:309:ARG:NH1	3:KJ:342:VAL:HA	2.33	0.43
3:KJ:394:PHE:HA	3:KJ:397:TRP:HZ3	1.83	0.43
3:KL:5:VAL:HB	3:KL:133:PHE:CE1	2.53	0.43
20:L:165:LEU:O	20:L:196:TRP:HZ2	2.00	0.43
22:L3:205:GLU:HA	22:L3:208:HIS:HB3	2.00	0.43
22:L4:48:THR:O	3:LL:121:ARG:NH2	2.52	0.43
3:LB:148:GLY:O	3:LB:152:ILE:HG12	2.18	0.43
3:LB:271:ALA:HB3	3:LB:365:ALA:H	1.82	0.43
3:LB:324:LYS:HB3	3:LB:324:LYS:HE3	1.77	0.43
4:LC:265:ILE:HB	4:LC:432:TYR:CE1	2.51	0.43
3:LD:313:VAL:HG23	3:LD:349:VAL:HA	2.00	0.43
4:LE:88:HIS:CD2	4:LE:90:GLU:HG2	2.53	0.43
4:LE:261:PRO:HA	3:LF:394:PHE:CE1	2.53	0.43
4:LG:265:ILE:HD12	4:LG:432:TYR:CE1	2.54	0.43
4:LG:419:SER:O	4:LG:422:ARG:HG2	2.17	0.43
3:LH:362:LYS:HE2	27:R:309:TRP:CH2	2.53	0.43
4:LI:118:VAL:HA	4:LI:121:ARG:HG2	2.00	0.43
4:LI:386:GLU:O	4:LI:390:ARG:N	2.46	0.43
3:LJ:246:LEU:HD13	3:LJ:353:VAL:C	2.44	0.43
3:LL:152:ILE:O	3:LL:156:ARG:HG2	2.19	0.43
3:MB:198:GLU:HG2	3:MB:266:PHE:CE2	2.53	0.43
3:MD:173:PRO:HD3	3:MD:203:ASP:OD1	2.18	0.43
4:ME:88:HIS:HE1	4:ME:90:GLU:CD	2.26	0.43
4:ME:165:SER:C	4:ME:166:LYS:HD2	2.43	0.43
3:MF:148:GLY:O	3:MF:152:ILE:HG12	2.17	0.43
3:MF:392:LYS:HD2	3:MF:392:LYS:O	2.18	0.43
4:MG:16:ILE:HG13	4:MG:17:GLY:N	2.33	0.43
4:MG:139:HIS:CD2	4:MG:170:ALA:HB2	2.53	0.43
4:MG:154:MET:HA	4:MG:157:LEU:HG	1.99	0.43
4:MG:234:ILE:O	4:MG:237:SER:OG	2.30	0.43
3:MH:257:MET:O	3:MH:259:PRO:HD3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MI:10:GLY:O	4:MI:14:VAL:HG13	2.18	0.43
4:MI:333:ALA:HA	4:MI:336:LYS:HD2	2.00	0.43
3:MJ:47:ILE:HG13	3:MJ:51:TYR:HB2	2.00	0.43
3:MJ:101:TRP:HB2	3:MJ:184:ASN:ND2	2.27	0.43
4:MK:257:THR:HA	3:ML:397:TRP:CZ2	2.53	0.43
4:MK:333:ALA:HA	4:MK:336:LYS:HD2	2.00	0.43
4:MM:217:LEU:HD13	4:MM:277:SER:HA	1.99	0.43
4:NA:272:TYR:CZ	4:NA:274:PRO:HG2	2.53	0.43
3:NB:19:LYS:NZ	3:NB:223:GLY:O	2.49	0.43
3:NB:410:GLU:HA	3:NB:413:SER:HB3	1.99	0.43
3:ND:324:LYS:HE2	4:NE:222:PRO:HD2	2.00	0.43
4:NE:145:THR:OG1	39:NE:501:GTP:O1B	2.35	0.43
3:NF:3:GLU:OE2	3:NF:127:CYS:HB2	2.19	0.43
3:NF:324:LYS:HE2	4:NG:222:PRO:CD	2.47	0.43
3:NH:324:LYS:HG3	4:NI:221:ARG:NH1	2.33	0.43
3:NJ:7:LEU:HD13	3:NJ:64:VAL:HB	2.00	0.43
4:OA:263:PRO:HB2	4:OA:264:ARG:NH1	2.33	0.43
4:OA:295:CYS:HB2	4:OA:377:MET:HG2	2.00	0.43
3:OB:3:GLU:OE2	3:OB:127:CYS:HB2	2.18	0.43
4:OC:116:ASP:N	4:OC:116:ASP:OD1	2.49	0.43
3:OD:384:GLN:O	3:OD:388:MET:HG2	2.18	0.43
4:OE:88:HIS:CE1	4:OE:121:ARG:HH22	2.37	0.43
4:OE:182:VAL:O	4:OE:185:TYR:HB2	2.17	0.43
4:OE:230:LEU:O	4:OE:234:ILE:HG12	2.19	0.43
3:OF:305:PRO:HA	3:OF:373:ALA:HB2	1.99	0.43
4:OG:213:CYS:O	4:OG:218:ASP:N	2.51	0.43
3:OH:330:MET:HG3	3:OH:349:VAL:HG11	2.01	0.43
3:OJ:41:ASP:HB3	37:YS:20:GLN:HG2	2.01	0.43
4:OK:269:LEU:N	4:OK:379:SER:O	2.36	0.43
4:OK:320:ARG:N	4:OK:374:ALA:O	2.48	0.43
27:P:277:ASN:HB2	27:P:279:GLU:HG2	1.99	0.43
29:P3:316:ARG:HB2	29:P3:327:ILE:HD13	2.00	0.43
29:P3:425:THR:HG22	29:P3:432:ILE:HG12	2.01	0.43
4:PC:50:ASN:OD1	4:PC:51:THR:N	2.51	0.43
4:PC:54:SER:N	4:PC:62:VAL:O	2.51	0.43
4:PC:174:ALA:HB3	4:PC:177:VAL:O	2.18	0.43
4:PC:390:ARG:HA	4:PC:393:HIS:NE2	2.32	0.43
3:PD:132:GLY:HA3	3:PD:163:ILE:H	1.82	0.43
3:PD:290:THR:HG21	3:PD:329:GLN:HB3	2.00	0.43
4:PG:185:TYR:CZ	4:PG:398:MET:HE1	2.53	0.43
3:PH:250:LEU:HD13	3:PH:253:LEU:HD12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:PI:352:LYS:NZ	3:PJ:179:VAL:HG13	2.33	0.43
3:PJ:51:TYR:CD1	3:PJ:61:PRO:HA	2.52	0.43
4:PK:6:SER:HB3	4:PK:65:ALA:HB2	2.00	0.43
4:PK:148:GLY:O	4:PK:151:SER:OG	2.26	0.43
3:PL:81:PHE:O	3:PL:84:ILE:HG22	2.19	0.43
3:PL:249:ASP:OD2	3:PL:251:ARG:HB3	2.18	0.43
4:PM:54:SER:N	4:PM:62:VAL:O	2.51	0.43
4:PM:280:LYS:HD2	4:PM:280:LYS:HA	1.76	0.43
27:Q:149:GLN:HE22	27:Q:152:ARG:HE	1.64	0.43
30:Q2:1366:LEU:HG	30:Q2:1369:LYS:HE2	1.99	0.43
30:Q2:1471:VAL:O	30:Q2:1475:ARG:HG3	2.18	0.43
30:Q3:1374:ILE:HD12	30:Q3:1379:SER:HA	2.00	0.43
30:Q3:1376:ARG:HH11	30:Q3:1379:SER:HG	1.63	0.43
30:Q3:1414:LEU:N	30:Q3:1418:MET:HE3	2.34	0.43
3:QB:299:MET:HE1	3:QB:303:CYS:O	2.18	0.43
3:QB:305:PRO:HA	3:QB:373:ALA:HB2	2.00	0.43
3:QB:319:GLY:N	3:QB:321:MET:HE1	2.33	0.43
4:QC:75:VAL:HG22	4:QC:79:ARG:HH21	1.83	0.43
4:QC:151:SER:O	4:QC:154:MET:HG3	2.18	0.43
4:QE:209:ILE:HG13	4:QE:302:MET:CE	2.48	0.43
3:QF:271:ALA:HB3	3:QF:365:ALA:H	1.83	0.43
4:QG:154:MET:HE2	4:QG:198:SER:HA	2.00	0.43
3:QH:189:VAL:HA	3:QH:192:LEU:HB2	2.00	0.43
3:QH:255:VAL:HG12	4:QI:407:TRP:CE3	2.53	0.43
4:QI:6:SER:HA	4:QI:136:LEU:HB2	2.00	0.43
3:QJ:122:LYS:HG2	3:RJ:291:GLN:NE2	2.33	0.43
3:QJ:300:MET:N	3:QJ:300:MET:SD	2.92	0.43
3:QJ:406:MET:O	3:QJ:409:THR:OG1	2.23	0.43
4:QK:252:LEU:HA	4:QK:255:PHE:CD2	2.54	0.43
3:QL:238:THR:HA	3:QL:241:ARG:HG2	2.00	0.43
4:QM:34:GLY:HA3	4:QM:60:LYS:NZ	2.33	0.43
3:RD:52:ASN:OD1	3:RD:62:ARG:NH1	2.50	0.43
3:RD:67:ASP:OD2	3:RD:72:THR:OG1	2.35	0.43
4:RE:280:LYS:HD2	4:RE:280:LYS:HA	1.70	0.43
4:RG:2:ARG:NH2	4:RG:250:VAL:O	2.49	0.43
4:RG:32:PRO:O	4:RG:85:GLN:NE2	2.51	0.43
4:RG:105:ARG:HG2	4:RG:109:THR:HG21	2.00	0.43
4:RG:185:TYR:CE1	4:RG:398:MET:HE1	2.52	0.43
4:RI:272:TYR:HE1	4:RI:374:ALA:HB1	1.83	0.43
4:RI:406:HIS:HA	4:RI:409:VAL:HG22	2.00	0.43
3:RJ:77:ARG:HD3	3:RJ:90:PHE:CE2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RJ:172:SER:OG	3:RJ:174:LYS:HG2	2.17	0.43
3:RJ:375:GLN:HA	3:RJ:378:PHE:CE1	2.53	0.43
4:RK:280:LYS:HD2	4:RK:280:LYS:HA	1.76	0.43
3:RL:239:CYS:HB3	3:RL:248:ALA:HA	2.00	0.43
4:RM:139:HIS:CD2	4:RM:170:ALA:HB2	2.54	0.43
3:SB:132:GLY:HA3	3:SB:163:ILE:H	1.84	0.43
3:SD:31:ASP:OD2	3:SD:35:THR:OG1	2.32	0.43
3:SD:192:LEU:O	3:SD:196:THR:HG22	2.17	0.43
3:SD:331:LEU:HD21	4:SE:177:VAL:HG22	1.99	0.43
4:SG:10:GLY:HA2	4:SG:145:THR:OG1	2.18	0.43
4:SG:390:ARG:HA	4:SG:393:HIS:NE2	2.33	0.43
4:SI:34:GLY:HA3	4:SI:60:LYS:HD2	2.00	0.43
4:SI:139:HIS:CD2	4:SI:170:ALA:HB2	2.52	0.43
4:SI:260:VAL:HG23	4:SI:265:ILE:O	2.18	0.43
3:SJ:379:LYS:O	3:SJ:382:SER:OG	2.19	0.43
3:SL:183:TYR:CG	3:SL:388:MET:HE3	2.53	0.43
3:SL:271:ALA:HB2	3:SL:365:ALA:H	1.83	0.43
4:SM:107:HIS:CD2	4:SM:152:LEU:HB3	2.53	0.43
4:TC:256:GLN:O	4:TC:260:VAL:HG12	2.18	0.43
3:TD:40:SER:HB3	3:TD:42:LEU:HD23	1.99	0.43
3:TD:135:LEU:O	3:TD:167:PHE:HB3	2.18	0.43
3:TD:186:THR:HG21	3:TD:385:PHE:CD2	2.52	0.43
3:TD:306:ARG:O	3:TD:306:ARG:NE	2.46	0.43
3:TD:316:VAL:HG23	3:TD:352:ALA:HB3	1.99	0.43
4:TE:141:PHE:C	4:TE:143:GLY:H	2.26	0.43
4:TE:252:LEU:HA	4:TE:255:PHE:CD2	2.53	0.43
4:TG:3:GLU:CD	4:TG:132:LEU:H	2.26	0.43
4:TG:88:HIS:O	4:TG:91:GLN:HG2	2.18	0.43
3:TH:2:ARG:HA	3:TH:129:CYS:O	2.18	0.43
3:TJ:148:GLY:O	3:TJ:152:ILE:HG12	2.18	0.43
4:TK:5:ILE:HD13	4:TK:64:ARG:HB3	1.98	0.43
3:TL:147:MET:O	3:TL:151:LEU:N	2.33	0.43
3:TL:166:THR:OG1	3:TL:198:GLU:O	2.27	0.43
4:TM:178:SER:OG	4:TM:180:ALA:O	2.36	0.43
33:U:225:GLU:HA	33:U:228:LEU:HD12	2.00	0.43
3:UB:392:LYS:O	3:UB:392:LYS:HD2	2.17	0.43
3:UD:151:LEU:HD22	3:UD:154:LYS:HZ1	1.82	0.43
4:UE:165:SER:C	4:UE:166:LYS:HD2	2.43	0.43
3:UF:345:ILE:HD12	3:UF:346:PRO:HD2	2.00	0.43
3:UH:72:THR:O	3:UH:75:SER:OG	2.32	0.43
3:UH:410:GLU:HA	3:UH:413:SER:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UI:166:LYS:O	4:UI:199:ASP:HB2	2.18	0.43
4:UI:319:TYR:HE2	4:UI:328:VAL:HG13	1.81	0.43
3:UJ:81:PHE:O	3:UJ:84:ILE:HG22	2.18	0.43
4:UK:36:MET:HG3	4:UK:41:THR:OG1	2.18	0.43
3:UL:6:HIS:HE1	3:UL:8:GLN:HB2	1.83	0.43
4:VA:30:ILE:HG13	4:VA:53:PHE:HE2	1.83	0.43
4:VA:192:HIS:CE1	4:VA:193:THR:HG23	2.53	0.43
3:VD:253:LEU:O	3:VD:257:MET:HG2	2.17	0.43
4:VE:212:ILE:HG13	4:VE:215:ARG:HH21	1.83	0.43
4:VE:319:TYR:HE2	4:VE:328:VAL:HG13	1.83	0.43
4:VG:186:ASN:OD1	4:VG:187:SER:N	2.51	0.43
3:VH:19:LYS:NZ	3:VH:223:GLY:O	2.48	0.43
4:VI:70:LEU:HB2	4:VI:145:THR:HG21	2.01	0.43
4:VI:88:HIS:CE1	4:VI:121:ARG:HH22	2.35	0.43
4:VI:119:LEU:HB3	4:VI:123:ARG:NH2	2.33	0.43
4:VI:425:LEU:O	4:VI:428:LEU:N	2.51	0.43
4:VK:216:ASN:ND2	4:VK:275:VAL:O	2.51	0.43
4:VK:280:LYS:HD2	4:VK:280:LYS:HA	1.73	0.43
3:VL:28:HIS:O	3:VL:43:GLN:NE2	2.52	0.43
3:VL:239:CYS:SG	3:VL:248:ALA:HA	2.58	0.43
33:W:135:LYS:O	33:W:139:LEU:HG	2.18	0.43
33:W:306:GLN:O	33:W:309:LEU:HG	2.19	0.43
4:WC:3:GLU:HG2	4:WC:132:LEU:H	1.83	0.43
4:WC:202:PHE:CD1	4:WC:268:PRO:HD2	2.53	0.43
4:WE:420:GLU:HA	4:WE:423:GLU:OE2	2.18	0.43
3:WH:28:HIS:ND1	3:WH:43:GLN:HB2	2.33	0.43
3:WH:255:VAL:HG12	4:WI:407:TRP:CE3	2.54	0.43
4:WI:28:HIS:HB2	4:WI:30:ILE:HG12	2.01	0.43
3:WJ:134:GLN:HA	3:WJ:165:ASN:HB3	2.00	0.43
3:WJ:152:ILE:O	3:WJ:156:ARG:HG2	2.18	0.43
3:WJ:183:TYR:N	3:WJ:388:MET:HE1	2.34	0.43
4:WK:390:ARG:HA	4:WK:393:HIS:CD2	2.54	0.43
3:WL:87:PRO:HA	3:WL:90:PHE:CD2	2.53	0.43
3:WL:166:THR:OG1	3:WL:198:GLU:O	2.30	0.43
3:WL:308:GLY:HA3	3:WL:372:THR:O	2.18	0.43
34:XA:122:PRO:HB2	34:XA:124:ARG:HH11	1.84	0.43
34:XA:138:ASP:OD1	34:XA:141:ARG:NH2	2.51	0.43
34:XA:173:SER:OG	34:XA:176:GLU:OE1	2.31	0.43
34:XE:88:THR:OG1	34:XE:105:ALA:O	2.22	0.43
34:XE:90:GLU:HG3	34:XE:102:ARG:CZ	2.48	0.43
35:XH:144:ARG:O	35:XH:144:ARG:NH1	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:XJ:216:PHE:O	35:XJ:220:GLY:N	2.51	0.43
35:XK:69:LEU:HA	35:XK:79:ALA:H	1.82	0.43
35:XL:156:LEU:HA	35:XL:159:LEU:HD12	2.00	0.43
36:Y:160:LYS:O	36:Y:164:VAL:HG23	2.18	0.43
37:YC:61:THR:HG22	37:YC:64:ARG:NH2	2.33	0.43
37:YE:20:GLN:NE2	37:YE:21:GLN:HG3	2.33	0.43
37:YG:159:PRO:HB2	37:YG:161:LYS:HG2	2.00	0.43
37:YK:141:ILE:HG22	37:YK:145:LEU:HG	1.99	0.43
37:YM:99:LYS:HG3	37:YM:100:CYS:N	2.32	0.43
37:YV:49:VAL:HG13	37:YV:66:LEU:HD12	1.99	0.43
36:Z:260:ASP:OD1	36:Z:263:ARG:NH1	2.52	0.43
36:Z:392:GLU:HB2	36:Z:396:GLN:HE22	1.83	0.43
1:A:56:PHE:CD1	18:J:70:TRP:HZ3	2.36	0.43
1:A:170:LEU:HB2	1:A:171:LYS:NZ	2.34	0.43
1:A:273:PHE:HA	1:A:276:ILE:HD12	2.01	0.43
2:A2:241:LEU:HD12	17:I2:48:TYR:CE2	2.53	0.43
3:AB:3:GLU:HG2	3:AB:130:LEU:HD23	2.00	0.43
3:AD:173:PRO:O	3:AD:380:ARG:NH2	2.51	0.43
3:AD:175:VAL:HG22	3:AD:177:ASP:H	1.82	0.43
3:AF:41:ASP:OD1	3:AF:41:ASP:N	2.49	0.43
4:AG:408:TYR:CD2	4:AG:418:PHE:HZ	2.35	0.43
3:AH:4:ILE:HB	3:AH:50:TYR:HE1	1.83	0.43
3:AH:148:GLY:O	3:AH:152:ILE:HG12	2.18	0.43
3:AH:324:LYS:HE2	4:AI:222:PRO:HG2	2.01	0.43
3:AJ:148:GLY:O	3:AJ:152:ILE:HG12	2.19	0.43
3:AJ:309:ARG:O	3:AJ:371:SER:OG	2.24	0.43
3:AJ:386:THR:O	3:AJ:390:ARG:HB2	2.18	0.43
3:AL:217:LEU:HD11	3:AL:220:PRO:HB3	2.00	0.43
3:AL:230:SER:HA	3:AL:233:MET:HG2	1.99	0.43
4:AM:362:VAL:HA	4:AM:368:LEU:HD11	1.99	0.43
1:B:423:LYS:O	1:B:427:LEU:HD23	2.18	0.43
5:B1:137:LEU:HA	5:B1:140:GLU:OE1	2.18	0.43
5:B2:12:TYR:HD2	5:B2:16:ASP:HB2	1.82	0.43
5:B2:203:VAL:HB	8:D4:215:TRP:CZ3	2.53	0.43
5:B5:36:HIS:HA	5:B5:39:ARG:HE	1.82	0.43
5:B6:45:LEU:HA	19:J3:97:ARG:NH1	2.33	0.43
5:B7:249:GLN:HE22	7:C3:320:LYS:HD2	1.82	0.43
5:B9:276:TYR:HA	5:B9:380:LYS:HZ1	1.83	0.43
3:BB:33:THR:O	3:BB:58:LYS:NZ	2.51	0.43
4:BE:226:ASN:HD22	4:BE:226:ASN:C	2.26	0.43
4:BE:386:GLU:O	4:BE:390:ARG:N	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BF:3:GLU:OE2	3:BF:127:CYS:HB2	2.18	0.43
4:BG:160:ASP:OD1	4:BG:161:TYR:N	2.51	0.43
4:BG:288:VAL:O	4:BG:292:THR:OG1	2.24	0.43
4:BI:187:SER:O	4:BI:190:THR:OG1	2.24	0.43
4:BI:423:GLU:HA	4:BI:426:ALA:HB3	2.00	0.43
4:BK:88:HIS:HA	4:CK:283:HIS:HE1	1.83	0.43
4:BK:321:GLY:HA3	4:BK:372:GLN:O	2.18	0.43
4:BM:145:THR:HG23	39:BM:501:GTP:O3B	2.17	0.43
6:C:340:PHE:HE2	6:C:375:CYS:HB3	1.83	0.43
7:C2:149:ARG:HA	7:C2:149:ARG:HD2	1.76	0.43
7:C4:252:HIS:HA	7:C4:255:GLU:OE1	2.18	0.43
7:C4:299:THR:O	7:C4:302:LYS:HG2	2.17	0.43
7:C4:373:PHE:HA	7:C4:376:GLU:OE1	2.18	0.43
3:CB:118:ASP:O	3:CB:122:LYS:HG3	2.17	0.43
3:CB:255:VAL:HG12	4:CC:407:TRP:CD2	2.53	0.43
3:CD:389:PHE:HZ	3:CD:405:GLU:HB2	1.83	0.43
4:CG:34:GLY:HA3	4:CG:60:LYS:HD2	2.00	0.43
4:CG:135:PHE:HD2	4:CG:166:LYS:HG3	1.83	0.43
3:CH:2:ARG:HB3	3:CH:131:GLN:NE2	2.32	0.43
4:CI:263:PRO:O	4:CI:264:ARG:HB2	2.17	0.43
3:CJ:4:ILE:HG12	3:CJ:131:GLN:OE1	2.17	0.43
3:CJ:50:TYR:HB2	3:CJ:241:ARG:HH22	1.83	0.43
3:CJ:310:TYR:HB2	3:CJ:341:PHE:HD1	1.83	0.43
4:CK:68:VAL:HG12	4:CK:93:ILE:HB	2.00	0.43
4:CK:216:ASN:HD21	4:CK:275:VAL:HG23	1.83	0.43
3:CL:289:LEU:O	3:CL:293:MET:N	2.42	0.43
4:CM:217:LEU:HB3	4:CM:219:ILE:HG12	2.00	0.43
4:CM:268:PRO:HB2	4:CM:378:LEU:HD11	1.99	0.43
7:Cb:377:MET:HA	7:Cb:380:GLU:OE1	2.17	0.43
7:Cc:160:ILE:HD13	7:Cc:258:LEU:HB3	2.01	0.43
7:Cd:226:ILE:O	7:Cd:230:GLN:HG3	2.19	0.43
8:D3:186:ILE:O	8:D3:190:LEU:HG	2.18	0.43
8:D4:125:SER:O	8:D4:128:THR:OG1	2.32	0.43
8:D5:409:ARG:HH12	8:D5:413:GLU:HG2	1.82	0.43
8:D7:409:ARG:O	8:D7:413:GLU:HG2	2.19	0.43
4:DA:22:GLU:HG2	4:DA:83:TYR:CE2	2.54	0.43
4:DA:89:PRO:HD3	4:EA:283:HIS:CE1	2.46	0.43
4:DA:263:PRO:O	4:DA:264:ARG:HB2	2.19	0.43
3:DB:156:ARG:CZ	3:DB:164:MET:HE3	2.49	0.43
3:DB:282:ARG:HE	3:DB:288:GLU:CD	2.27	0.43
3:DB:319:GLY:O	3:DB:355:ASP:HA	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DC:139:HIS:CD2	4:DC:170:ALA:HB2	2.53	0.43
4:DC:192:HIS:CE1	4:DC:193:THR:HG23	2.54	0.43
4:DC:263:PRO:HD3	3:DD:396:HIS:CD2	2.53	0.43
3:DD:52:ASN:ND2	3:DD:62:ARG:HD3	2.33	0.43
3:DD:311:LEU:O	3:DD:348:ASN:ND2	2.51	0.43
3:DD:313:VAL:HG23	3:DD:349:VAL:HA	1.99	0.43
3:DF:69:GLU:CD	3:DF:71:GLY:H	2.27	0.43
3:DF:222:TYR:HA	3:DF:225:LEU:HD12	1.99	0.43
4:DG:301:GLN:OE1	4:DG:301:GLN:N	2.52	0.43
4:DG:411:GLU:OE2	4:DG:413:MET:HG2	2.18	0.43
3:DH:40:SER:HB3	3:DH:42:LEU:HD23	1.98	0.43
3:DH:289:LEU:HD21	3:DH:363:MET:HB3	1.99	0.43
4:DI:88:HIS:HB3	4:DI:91:GLN:HG2	2.00	0.43
4:DI:196:GLU:OE1	4:DI:196:GLU:N	2.32	0.43
4:DK:36:MET:HG3	4:DK:41:THR:OG1	2.19	0.43
4:DK:405:VAL:O	4:DK:409:VAL:HG22	2.19	0.43
3:DL:91:VAL:HG11	3:DL:116:VAL:HG12	2.01	0.43
9:E:564:GLN:HG2	9:E:565:ARG:N	2.32	0.43
10:E4:49:TRP:CZ2	10:E4:60:GLY:HA2	2.54	0.43
4:EA:287:SER:N	4:EA:290:GLU:OE2	2.50	0.43
4:EA:316:CYS:O	4:EA:377:MET:HA	2.18	0.43
4:EA:388:TRP:HB3	4:EA:425:LEU:HD11	1.99	0.43
4:EC:88:HIS:CD2	4:FC:280:LYS:HZ1	2.36	0.43
4:EC:280:LYS:O	4:EC:284:GLU:HB2	2.19	0.43
3:ED:6:HIS:HE1	3:ED:8:GLN:HB3	1.82	0.43
3:ED:152:ILE:O	3:ED:156:ARG:HG2	2.17	0.43
4:EE:35:GLN:HG3	4:EE:60:LYS:HD3	2.01	0.43
4:EE:81:GLY:O	4:EE:84:ARG:NH1	2.52	0.43
4:EE:319:TYR:N	4:EE:354:GLY:O	2.51	0.43
4:EE:397:LEU:O	4:EE:401:LYS:HG2	2.18	0.43
3:EF:276:ARG:HD2	14:G5:405:SER:OG	2.18	0.43
4:EG:224:TYR:HA	4:EG:227:LEU:HB2	2.00	0.43
4:EG:265:ILE:HA	4:EG:267:PHE:CE2	2.53	0.43
3:EH:209:ASP:O	3:EH:213:ARG:HG2	2.18	0.43
3:EH:250:LEU:HD13	3:EH:253:LEU:HD12	2.00	0.43
4:EI:152:LEU:HD12	4:EI:153:LEU:N	2.34	0.43
4:EI:399:TYR:O	4:EI:402:ARG:HG3	2.18	0.43
4:EK:139:HIS:CD2	4:EK:170:ALA:HB2	2.52	0.43
4:EK:395:PHE:HE2	4:EK:422:ARG:HH22	1.65	0.43
9:F:408:THR:N	9:F:409:PRO:HD2	2.33	0.43
11:F1:357:LEU:HB3	11:F1:455:LEU:HD21	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:F1:469:CYS:SG	11:F1:473:ARG:HD3	2.57	0.43
11:F2:201:ARG:HB2	11:F2:205:ASP:OD2	2.18	0.43
11:F2:206:LEU:HD22	11:F3:89:ARG:HG3	1.99	0.43
11:F2:439:ASP:O	11:F2:442:GLN:NE2	2.51	0.43
11:F2:470:MET:HG3	11:F2:473:ARG:CZ	2.47	0.43
11:F5:295:THR:HA	11:F5:298:LYS:HG2	1.99	0.43
11:F8:361:LEU:HB3	11:F8:451:LEU:HD13	1.99	0.43
11:F8:409:ARG:HA	11:F8:413:GLN:CD	2.44	0.43
4:FA:186:ASN:OD1	4:FA:187:SER:N	2.52	0.43
3:FB:16:ILE:HD13	3:FB:226:ASN:ND2	2.33	0.43
4:FC:89:PRO:HD2	4:GC:280:LYS:NZ	2.32	0.43
3:FD:198:GLU:HA	3:FD:266:PHE:HE2	1.83	0.43
4:FE:264:ARG:O	4:FE:266:HIS:ND1	2.51	0.43
4:FG:140:SER:HB2	4:FG:171:ILE:HG22	2.00	0.43
4:FG:175:PRO:HD2	4:FG:207:GLU:OE1	2.19	0.43
4:FG:418:PHE:O	4:FG:422:ARG:NH2	2.50	0.43
4:FG:418:PHE:C	4:FG:422:ARG:HH21	2.26	0.43
3:FH:415:MET:O	3:FH:419:VAL:N	2.48	0.43
4:FI:192:HIS:CE1	4:FI:193:THR:HG23	2.54	0.43
4:FI:257:THR:HA	3:FJ:397:TRP:CZ2	2.53	0.43
4:FK:152:LEU:HD23	4:FK:156:ARG:NH2	2.32	0.43
4:FK:429:GLU:O	4:FK:433:GLU:HG2	2.19	0.43
3:FL:318:ARG:HD3	3:FL:358:PRO:HG3	2.00	0.43
11:Fa:171:ASP:O	11:Fa:174:LYS:HG2	2.18	0.43
11:Fe:152:TRP:O	11:Fe:156:LEU:HG	2.18	0.43
11:Fe:251:GLU:O	11:Fe:254:ILE:HG12	2.18	0.43
11:Fg:412:PRO:O	11:Fg:416:LEU:HD23	2.17	0.43
12:G:95:GLU:HA	12:G:98:ARG:CD	2.48	0.43
12:G:292:VAL:HA	12:G:295:LYS:HE2	2.00	0.43
13:G1:44:THR:O	13:G1:45:MET:HE2	2.18	0.43
13:G2:211:PRO:O	13:G2:215:LEU:HG	2.18	0.43
13:G3:105:GLU:HG2	13:G3:116:ARG:HB2	1.98	0.43
13:G3:262:TYR:CD1	13:G3:277:GLU:HA	2.52	0.43
13:G3:422:TYR:HD2	13:G3:440:PHE:CD2	2.36	0.43
14:G4:233:PHE:HB2	14:G4:355:ASP:HB3	2.00	0.43
14:G4:562:ILE:HG23	14:G4:566:PHE:CD2	2.53	0.43
14:G6:30:ASN:CG	14:G6:31:ASN:H	2.26	0.43
14:G6:262:ILE:HG13	14:G6:279:LEU:HD12	2.00	0.43
14:G6:485:ARG:HD2	14:G6:501:TYR:CD2	2.52	0.43
4:GA:216:ASN:HB2	4:GA:276:ILE:HD12	1.99	0.43
4:GA:246:GLY:HA3	4:GA:355:ILE:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:GC:139:HIS:NE2	4:GC:170:ALA:HB2	2.33	0.43
3:GD:133:PHE:N	3:GD:163:ILE:O	2.44	0.43
3:GD:173:PRO:O	3:GD:380:ARG:NH2	2.47	0.43
3:GD:381:ILE:HA	3:GD:384:GLN:HG2	2.00	0.43
4:GE:244:PHE:CD2	4:GE:358:GLN:HB2	2.53	0.43
3:GF:157:GLU:HG2	3:GF:158:GLU:N	2.34	0.43
3:GF:269:GLY:O	3:GF:367:PHE:N	2.35	0.43
4:GG:36:MET:HA	4:GG:36:MET:HE2	1.98	0.43
3:GH:48:ASN:HA	3:GH:51:TYR:O	2.17	0.43
3:GH:192:LEU:O	3:GH:196:THR:HG22	2.18	0.43
3:GJ:6:HIS:HD2	3:GJ:134:GLN:HG2	1.83	0.43
3:GJ:27:GLU:HB2	3:GJ:359:ARG:HG3	1.99	0.43
4:GK:70:LEU:HB2	4:GK:145:THR:HG21	2.00	0.43
4:GK:225:THR:O	4:GK:229:ARG:HG3	2.18	0.43
4:GK:316:CYS:N	4:GK:378:LEU:O	2.43	0.43
3:GL:92:PHE:HE1	25:N:93:LYS:HZ1	1.66	0.43
15:H6:227:ARG:HA	15:H6:230:TRP:CE3	2.53	0.43
3:HB:31:ASP:OD2	3:HB:35:THR:OG1	2.34	0.43
4:HC:89:PRO:CG	4:IC:280:LYS:HZ1	2.32	0.43
4:HC:176:GLN:NE2	4:HC:177:VAL:HG23	2.32	0.43
4:HC:320:ARG:HH21	4:HC:358:GLN:HG3	1.83	0.43
3:HD:324:LYS:HG3	4:HE:221:ARG:NH1	2.33	0.43
4:HE:2:ARG:HA	4:HE:133:GLN:NE2	2.33	0.43
4:HE:55:GLU:HA	4:HE:60:LYS:O	2.19	0.43
4:HE:301:GLN:OE1	4:HE:301:GLN:N	2.51	0.43
3:HF:148:GLY:O	3:HF:152:ILE:HG12	2.18	0.43
4:HG:196:GLU:OE1	4:HG:196:GLU:N	2.42	0.43
4:HG:296:PHE:CE2	4:HG:335:ILE:HG12	2.52	0.43
3:HH:69:GLU:OE1	3:HH:71:GLY:N	2.51	0.43
3:HJ:4:ILE:CD1	3:HJ:131:GLN:HB2	2.46	0.43
4:HK:192:HIS:CE1	4:HK:193:THR:HG23	2.53	0.43
3:IB:6:HIS:HB3	3:IB:21:TRP:HZ2	1.83	0.43
4:IC:424:ASP:O	4:IC:428:LEU:HD23	2.19	0.43
3:ID:65:LEU:HD21	3:ID:73:MET:HG2	1.99	0.43
4:IE:11:GLN:O	4:IE:14:VAL:HG22	2.18	0.43
4:IG:2:ARG:NH1	4:IG:241:SER:O	2.51	0.43
4:IG:304:LYS:H	4:IG:304:LYS:HD2	1.83	0.43
3:IH:374:ILE:HG22	3:IH:378:PHE:CE2	2.53	0.43
4:II:87:PHE:HB3	4:II:92:LEU:CD2	2.45	0.43
4:II:318:LEU:O	4:II:375:VAL:HA	2.18	0.43
4:II:427:ALA:HA	4:II:430:LYS:HZ3	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IJ:11:GLN:HG3	39:IJ:501:GTP:PA	2.58	0.43
3:IJ:52:ASN:ND2	3:IJ:62:ARG:HD3	2.32	0.43
3:IJ:189:VAL:HA	3:IJ:192:LEU:HD12	2.00	0.43
3:IJ:217:LEU:HD11	3:IJ:220:PRO:HB3	2.00	0.43
4:IM:31:GLN:HE22	4:IM:37:PRO:HD3	1.82	0.43
19:J2:74:ASP:OD2	19:J2:111:ARG:NH2	2.51	0.43
19:J3:170:SER:OG	19:J3:173:GLY:O	2.27	0.43
4:JA:46:ASP:OD1	4:JA:50:ASN:ND2	2.50	0.43
4:JA:174:ALA:HB3	4:JA:177:VAL:O	2.18	0.43
4:JC:67:PHE:O	4:JC:93:ILE:N	2.51	0.43
4:JC:269:LEU:HD11	4:JC:384:ILE:HG21	2.00	0.43
3:JD:152:ILE:O	3:JD:156:ARG:HG2	2.18	0.43
4:JE:331:ALA:O	4:JE:335:ILE:HG12	2.19	0.43
3:JF:323:MET:SD	3:JF:323:MET:N	2.86	0.43
4:JG:333:ALA:O	4:JG:337:THR:HG23	2.19	0.43
4:JI:31:GLN:HE22	4:JI:37:PRO:HD3	1.83	0.43
4:JI:36:MET:HG3	4:JI:41:THR:OG1	2.18	0.43
4:JI:287:SER:N	4:JI:290:GLU:OE2	2.52	0.43
3:JJ:41:ASP:N	3:JJ:41:ASP:OD1	2.50	0.43
3:JJ:52:ASN:OD1	3:JJ:62:ARG:NH1	2.51	0.43
4:JK:11:GLN:HG3	39:JK:501:GTP:O1B	2.19	0.43
3:JL:130:LEU:HB2	3:JL:162:ARG:NH1	2.33	0.43
3:JL:152:ILE:HD12	3:JL:195:ASN:HB2	1.99	0.43
21:K2:266:ASP:HB2	21:K2:269:ARG:HB3	2.00	0.43
21:K2:357:MET:SD	21:K2:440:HIS:ND1	2.88	0.43
21:K2:375:ARG:HH21	21:K2:423:THR:HA	1.82	0.43
21:K4:188:CYS:O	21:K4:189:GLU:C	2.61	0.43
4:KC:72:PRO:HA	4:KC:75:VAL:HG12	2.00	0.43
4:KC:254:GLU:OE2	3:KD:98:GLY:HA2	2.18	0.43
3:KD:99:ASN:OD1	3:KD:142:GLY:HA3	2.17	0.43
3:KD:182:PRO:HB2	3:KD:388:MET:HE1	2.00	0.43
4:KE:420:GLU:HA	4:KE:423:GLU:OE2	2.18	0.43
3:KF:324:LYS:HE2	4:KG:222:PRO:CD	2.48	0.43
4:KI:119:LEU:HB3	4:KI:123:ARG:NH2	2.34	0.43
3:KJ:73:MET:HE1	3:KJ:92:PHE:CG	2.53	0.43
3:KJ:246:LEU:HB3	3:KJ:353:VAL:O	2.18	0.43
4:KK:6:SER:HB3	4:KK:65:ALA:HB2	2.01	0.43
3:KL:19:LYS:NZ	3:KL:223:GLY:O	2.51	0.43
22:L2:136:LEU:O	22:L2:137:GLU:C	2.61	0.43
22:L2:212:GLN:HE21	3:VF:83:GLN:HB3	1.83	0.43
22:L2:218:ILE:HG21	3:WF:218:THR:CG2	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:LA:234:ILE:O	4:LA:237:SER:OG	2.35	0.43
3:LB:324:LYS:HD3	4:LC:210:TYR:CE1	2.53	0.43
3:LB:378:PHE:CD1	3:LB:419:VAL:HG22	2.53	0.43
4:LC:49:PHE:O	4:LC:52:PHE:N	2.46	0.43
4:LE:16:ILE:HG13	4:LE:17:GLY:N	2.33	0.43
4:LE:161:TYR:HB3	4:LE:164:LYS:NZ	2.33	0.43
4:LE:205:ASP:O	4:LE:209:ILE:HG12	2.19	0.43
4:LE:397:LEU:O	4:LE:401:LYS:HG2	2.18	0.43
3:LF:67:ASP:HB3	3:LF:73:MET:SD	2.58	0.43
3:LF:247:ASN:HB3	3:LF:252:LYS:HE3	2.00	0.43
3:LF:378:PHE:CE1	3:LF:419:VAL:HG22	2.54	0.43
4:LG:271:THR:HB	4:LG:377:MET:HE2	1.99	0.43
4:LG:301:GLN:N	4:LG:301:GLN:OE1	2.51	0.43
4:LI:119:LEU:HD23	4:LI:122:ILE:HD11	1.99	0.43
4:LI:386:GLU:HA	4:LI:389:ALA:HB3	2.00	0.43
4:LI:391:LEU:HA	4:LI:394:LYS:HZ3	1.83	0.43
3:LJ:48:ASN:HA	3:LJ:51:TYR:O	2.18	0.43
4:LK:196:GLU:HG2	4:LK:197:HIS:ND1	2.33	0.43
4:LK:270:ALA:O	4:LK:271:THR:OG1	2.33	0.43
3:MB:249:ASP:O	3:MB:253:LEU:HG	2.18	0.43
3:MD:272:PRO:HA	3:MD:292:GLN:OE1	2.18	0.43
3:MD:330:MET:O	3:MD:334:GLN:N	2.50	0.43
39:MD:502:GTP:O3B	4:ME:145:THR:HG23	2.18	0.43
4:ME:175:PRO:HG2	4:ME:304:LYS:HD3	1.99	0.43
4:ME:255:PHE:O	4:ME:259:LEU:HB2	2.18	0.43
3:MF:378:PHE:HA	3:MF:381:ILE:HG22	1.99	0.43
4:MG:167:LEU:HB3	4:MG:169:PHE:CE1	2.53	0.43
4:MG:428:LEU:HA	4:MG:431:ASP:HB2	2.01	0.43
3:MH:73:MET:O	3:MH:77:ARG:N	2.38	0.43
3:MH:376:GLU:H	3:MH:376:GLU:CD	2.21	0.43
4:MI:88:HIS:HE1	4:MI:90:GLU:CD	2.26	0.43
4:MI:423:GLU:O	4:MI:427:ALA:N	2.45	0.43
4:MK:75:VAL:HG23	4:MK:92:LEU:HD12	1.99	0.43
3:ML:31:ASP:OD1	3:ML:35:THR:N	2.51	0.43
3:ML:324:LYS:HE2	4:MM:222:PRO:CD	2.48	0.43
4:MM:8:HIS:CD2	4:MM:67:PHE:HE1	2.36	0.43
4:NA:52:PHE:HZ	4:NA:239:THR:HB	1.83	0.43
4:NC:225:THR:O	4:NC:229:ARG:HB2	2.18	0.43
3:ND:213:ARG:HG2	3:ND:297:LYS:HG2	2.00	0.43
4:NG:389:ALA:O	4:NG:393:HIS:HD2	2.01	0.43
3:NH:19:LYS:HA	3:NH:22:GLU:HG3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:NI:174:ALA:HB3	4:NI:177:VAL:O	2.18	0.43
4:NI:186:ASN:OD1	4:NI:187:SER:N	2.51	0.43
4:NI:405:VAL:O	4:NI:409:VAL:HG22	2.18	0.43
4:NK:420:GLU:HA	4:NK:423:GLU:OE2	2.18	0.43
28:O2:84:ARG:N	28:O2:118:PHE:HZ	2.16	0.43
28:O3:106:CYS:O	28:O3:107:ASN:HB2	2.19	0.43
3:OB:148:GLY:C	3:OB:152:ILE:HG12	2.43	0.43
3:OB:151:LEU:HD12	3:OB:152:ILE:HD13	1.99	0.43
3:OD:21:TRP:CZ2	3:OD:63:ALA:HB2	2.54	0.43
4:OE:119:LEU:HA	4:OE:122:ILE:HG12	2.00	0.43
4:OE:287:SER:HG	4:OE:290:GLU:CD	2.21	0.43
3:OF:21:TRP:CZ2	3:OF:63:ALA:HB2	2.53	0.43
3:OF:324:LYS:HE2	4:OG:222:PRO:CD	2.48	0.43
3:OF:378:PHE:O	3:OF:381:ILE:HG22	2.18	0.43
3:OH:130:LEU:HB3	3:OH:162:ARG:NH1	2.32	0.43
3:OH:324:LYS:HD3	4:OI:210:TYR:CE1	2.52	0.43
4:OI:312:TYR:HB2	4:OI:343:PHE:HA	2.00	0.43
3:OJ:12:CYS:SG	39:OJ:501:GTP:H5'	2.58	0.43
3:OJ:166:THR:OG1	3:OJ:198:GLU:O	2.24	0.43
4:OK:1:MET:HE2	4:OK:2:ARG:H	1.83	0.43
4:OK:46:ASP:OD1	4:OK:50:ASN:ND2	2.49	0.43
3:OL:47:ILE:HG12	3:OL:59:TYR:CD2	2.53	0.43
27:P:36:ILE:HG22	27:P:36:ILE:O	2.17	0.43
27:P:286:PHE:O	27:P:290:ARG:NH1	2.50	0.43
29:P1:570:LYS:HA	29:P1:582:VAL:HA	1.99	0.43
29:P2:360:HIS:HB2	29:P2:367:LEU:HD21	2.00	0.43
29:P3:401:PHE:HE1	29:P3:408:LEU:HD13	1.83	0.43
4:PA:362:VAL:HA	4:PA:368:LEU:HD21	2.01	0.43
3:PB:73:MET:SD	3:PB:73:MET:N	2.89	0.43
4:PC:265:ILE:HD12	4:PC:432:TYR:CE1	2.53	0.43
3:PD:39:ASP:OD1	3:PD:39:ASP:N	2.51	0.43
3:PD:120:VAL:O	3:PD:124:ALA:N	2.46	0.43
3:PF:3:GLU:HG2	3:PF:130:LEU:HD23	2.00	0.43
3:PF:246:LEU:HD22	3:PF:354:CYS:HA	1.99	0.43
4:PG:53:PHE:CD2	4:PG:61:HIS:HB3	2.53	0.43
4:PG:234:ILE:HD11	4:PG:272:TYR:HB2	2.00	0.43
4:PI:167:LEU:HD13	4:PI:200:CYS:HB2	1.99	0.43
4:PI:274:PRO:HG3	4:PI:374:ALA:HA	2.00	0.43
4:PI:419:SER:O	4:PI:422:ARG:HG2	2.17	0.43
3:PJ:330:MET:HE1	4:PK:177:VAL:HG22	1.99	0.43
4:PK:21:TRP:HD1	4:PK:67:PHE:HZ	1.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:PK:166:LYS:HD2	4:PK:168:GLU:OE2	2.18	0.43
3:PL:300:MET:SD	3:PL:300:MET:N	2.91	0.43
30:Q3:1447:ILE:HD12	30:Q3:1451:TRP:HA	2.00	0.43
3:QB:117:LEU:HB3	3:QB:121:ARG:NH2	2.34	0.43
4:QC:47:ASP:HB3	4:QC:49:PHE:CE2	2.53	0.43
4:QC:119:LEU:HB3	4:QC:123:ARG:NH2	2.33	0.43
4:QE:99:ALA:HB3	4:QE:144:GLY:O	2.18	0.43
4:QE:166:LYS:N	4:QE:199:ASP:OD2	2.51	0.43
4:QE:208:ALA:H	4:QE:304:LYS:HZ1	1.65	0.43
3:QF:31:ASP:OD2	3:QF:35:THR:OG1	2.33	0.43
3:QF:133:PHE:HD2	3:QF:164:MET:HE1	1.84	0.43
3:QH:344:TRP:HD1	4:QI:401:LYS:HD2	1.84	0.43
4:QI:269:LEU:HD11	4:QI:384:ILE:HG21	2.00	0.43
4:QI:317:MET:HE1	4:QI:377:MET:HG2	2.00	0.43
4:QI:421:ALA:HA	4:QI:424:ASP:HB2	2.01	0.43
3:QJ:2:ARG:HB3	3:QJ:131:GLN:NE2	2.33	0.43
3:QJ:173:PRO:HD3	3:QJ:203:ASP:OD1	2.19	0.43
4:QK:29:GLY:O	4:QK:36:MET:HE1	2.18	0.43
3:RB:149:THR:HG21	3:RB:188:SER:HA	1.99	0.43
3:RB:350:LYS:HE3	4:RC:181:VAL:H	1.84	0.43
4:RC:262:TYR:CE1	3:RD:393:ALA:HA	2.53	0.43
3:RF:41:ASP:OD1	3:RF:41:ASP:N	2.52	0.43
3:RF:182:PRO:O	3:RF:385:PHE:HE1	2.00	0.43
3:RF:258:VAL:HB	4:RG:407:TRP:HZ2	1.83	0.43
3:RF:318:ARG:HD3	3:RF:358:PRO:HG3	1.99	0.43
4:RG:160:ASP:OD1	4:RG:161:TYR:N	2.52	0.43
4:RG:257:THR:HA	3:RH:397:TRP:CZ2	2.53	0.43
3:RH:12:CYS:HA	39:RH:501:GTP:C2	2.54	0.43
3:RH:24:ILE:HG23	3:RH:28:HIS:CE1	2.53	0.43
3:RH:51:TYR:CD1	3:RH:61:PRO:HA	2.54	0.43
3:RH:375:GLN:HA	3:RH:378:PHE:CE1	2.54	0.43
4:RI:230:LEU:O	4:RI:234:ILE:HG12	2.18	0.43
3:RJ:11:GLN:HG3	39:RJ:501:GTP:PA	2.58	0.43
3:RJ:257:MET:O	3:RJ:259:PRO:HD3	2.19	0.43
4:RK:405:VAL:O	4:RK:409:VAL:HG22	2.18	0.43
4:RM:260:VAL:HG23	4:RM:265:ILE:O	2.19	0.43
4:RM:301:GLN:OE1	4:RM:301:GLN:N	2.51	0.43
4:RM:402:ARG:HB2	4:RM:405:VAL:HG11	1.99	0.43
3:SB:3:GLU:OE2	3:SB:127:CYS:HB2	2.17	0.43
3:SB:15:GLN:NE2	39:SB:501:GTP:HN1	2.16	0.43
4:SC:254:GLU:OE1	4:SC:254:GLU:N	2.42	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:SD:28:HIS:O	3:SD:43:GLN:NE2	2.51	0.43
3:SD:176:SER:HB2	3:SD:181:GLU:OE1	2.18	0.43
3:SD:324:LYS:HE2	4:SE:222:PRO:CD	2.48	0.43
3:SF:137:HIS:O	3:SF:168:SER:HA	2.18	0.43
4:SG:323:VAL:HG22	4:SG:373:ARG:HG2	1.99	0.43
3:SH:12:CYS:HB3	39:SH:501:GTP:H5'	2.00	0.43
3:SH:132:GLY:HA3	3:SH:163:ILE:H	1.84	0.43
4:SI:321:GLY:HA3	4:SI:372:GLN:O	2.18	0.43
4:SI:414:GLU:HG2	4:SI:417:GLU:OE1	2.17	0.43
3:SJ:42:LEU:HD12	3:SJ:243:PRO:HD2	2.00	0.43
3:SL:2:ARG:HB3	3:SL:131:GLN:CD	2.43	0.43
3:SL:402:GLY:C	3:SL:403:MET:HE2	2.44	0.43
4:SM:35:GLN:HG2	4:SM:59:GLY:O	2.17	0.43
3:TB:102:ALA:O	3:TB:106:TYR:N	2.50	0.43
4:TC:47:ASP:HB3	4:TC:49:PHE:CE2	2.54	0.43
4:TC:119:LEU:HB3	4:TC:123:ARG:NH2	2.34	0.43
3:TF:282:ARG:HH22	3:TF:292:GLN:CD	2.26	0.43
4:TG:246:GLY:HA2	4:TG:357:TYR:CD2	2.53	0.43
3:TH:32:PRO:C	3:TH:83:GLN:HE21	2.25	0.43
3:TH:386:THR:O	3:TH:390:ARG:HG3	2.17	0.43
3:TJ:312:THR:OG1	3:TJ:370:ASN:HB3	2.17	0.43
3:TL:149:THR:HG21	3:TL:188:SER:HA	2.00	0.43
3:TL:344:TRP:CD1	4:TM:401:LYS:HD2	2.53	0.43
4:TM:346:TRP:NE1	3:TN:391:ARG:HH11	2.16	0.43
3:TN:87:PRO:HA	3:TN:90:PHE:CD2	2.52	0.43
3:TN:345:ILE:HD12	3:TN:346:PRO:HD2	2.00	0.43
3:UB:218:THR:OG1	3:UB:219:THR:N	2.50	0.43
4:UC:88:HIS:HB3	4:UC:91:GLN:HB2	2.00	0.43
4:UE:10:GLY:O	4:UE:14:VAL:HG13	2.18	0.43
3:UF:130:LEU:HB2	3:UF:162:ARG:HH11	1.82	0.43
4:UI:269:LEU:HD11	4:UI:384:ILE:HG21	2.00	0.43
4:UI:420:GLU:HA	4:UI:423:GLU:OE2	2.17	0.43
4:UK:99:ALA:HB3	4:UK:144:GLY:O	2.18	0.43
4:UK:186:ASN:OD1	4:UK:187:SER:N	2.51	0.43
3:VB:305:PRO:HB2	3:VB:310:TYR:HE1	1.82	0.43
4:VC:318:LEU:O	4:VC:375:VAL:HA	2.17	0.43
4:VC:346:TRP:CD1	4:VC:346:TRP:N	2.86	0.43
3:VD:20:PHE:CZ	3:VD:24:ILE:HD11	2.53	0.43
3:VD:182:PRO:HB2	3:VD:388:MET:CE	2.48	0.43
4:VE:163:LYS:HA	4:VE:163:LYS:HD3	1.73	0.43
4:VE:265:ILE:HB	4:VE:432:TYR:HE1	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:VG:117:LEU:O	4:VG:121:ARG:HG2	2.18	0.43
3:VH:132:GLY:HA3	3:VH:163:ILE:H	1.83	0.43
4:VI:22:GLU:HG2	4:VI:83:TYR:CE2	2.53	0.43
4:VI:288:VAL:O	4:VI:292:THR:OG1	2.28	0.43
3:VJ:40:SER:HB2	3:VJ:43:GLN:CD	2.43	0.43
3:VJ:148:GLY:O	3:VJ:152:ILE:HG12	2.19	0.43
3:VL:211:CYS:HA	3:VL:215:LEU:HD12	2.00	0.43
3:VL:234:SER:O	3:VL:238:THR:HG23	2.19	0.43
33:W:128:GLU:O	33:W:132:LYS:HG2	2.19	0.43
4:WA:176:GLN:NE2	4:WA:207:GLU:OE2	2.51	0.43
4:WA:345:ASP:N	4:WA:345:ASP:OD1	2.48	0.43
3:WB:51:TYR:CD1	3:WB:61:PRO:HA	2.52	0.43
3:WF:93:GLY:O	35:XJ:73:SER:OG	2.35	0.43
3:WH:51:TYR:CD1	3:WH:61:PRO:HA	2.53	0.43
3:WH:66:VAL:HA	3:WH:91:VAL:O	2.19	0.43
4:WI:182:VAL:O	4:WI:185:TYR:HB2	2.19	0.43
4:WI:212:ILE:HG23	4:WI:216:ASN:OD1	2.18	0.43
3:WJ:118:ASP:HA	3:WJ:121:ARG:HG2	2.00	0.43
4:WK:1:MET:HE3	4:WK:50:ASN:HD21	1.83	0.43
4:WK:103:TYR:HB2	4:WK:186:ASN:HB2	1.99	0.43
33:X:483:ARG:O	33:X:487:GLN:N	2.47	0.43
34:XC:12:SER:HA	34:XC:166:TYR:HA	2.00	0.43
34:XD:96:ASP:N	34:XD:96:ASP:OD1	2.51	0.43
34:XF:39:ASP:O	34:XF:43:GLN:HA	2.18	0.43
34:XF:148:TYR:OH	34:XF:151:THR:HG22	2.18	0.43
34:XG:78:MET:HB3	34:XG:132:ILE:HG13	2.00	0.43
35:XI:177:ILE:HG13	35:XI:178:LEU:N	2.33	0.43
35:XJ:58:LYS:O	35:XJ:62:ARG:HG3	2.18	0.43
37:YB:14:LYS:O	37:YB:17:LEU:HB3	2.18	0.43
37:YC:43:ILE:HD12	37:YC:137:VAL:HG21	2.00	0.43
37:YC:50:GLN:NE2	37:YC:70:MET:HE2	2.33	0.43
37:YJ:161:LYS:O	37:YJ:165:HIS:NE2	2.51	0.43
37:YM:116:LYS:HD3	37:YM:117:TYR:N	2.33	0.43
37:YR:69:PHE:HA	37:YR:72:ILE:HG12	2.01	0.43
37:YR:128:ASP:HA	37:YR:131:ARG:HD3	2.00	0.43
37:YS:93:THR:HB	37:YS:151:TRP:CD1	2.54	0.43
37:YS:97:LEU:HG	37:YS:101:LYS:HE2	2.00	0.43
36:Z:296:LYS:HA	36:Z:299:LYS:HB3	2.00	0.43
36:Z:441:LYS:HA	36:Z:444:LYS:HD2	1.99	0.43
2:A1:135:GLU:O	2:A1:139:GLU:HG2	2.19	0.43
2:A1:176:ARG:HH21	2:A1:179:PHE:HB3	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A1:265:ILE:C	2:A1:269:LYS:HZ2	2.27	0.43
2:A2:149:LEU:HD11	17:I2:58:GLU:HG3	2.00	0.43
2:A2:364:ALA:O	2:A2:368:ARG:HG2	2.18	0.43
2:A3:264:PHE:HE2	2:A3:391:MET:HE2	1.84	0.43
2:A4:44:LEU:O	2:A4:48:ILE:HG12	2.19	0.43
2:A4:48:ILE:O	2:A4:52:THR:HG23	2.19	0.43
2:A4:84:LEU:HA	2:A4:232:LEU:HD21	1.99	0.43
2:A4:183:THR:HB	7:C4:266:ARG:HH22	1.84	0.43
3:AD:156:ARG:NE	3:AD:164:MET:HE3	2.34	0.43
3:AD:295:ASP:HB2	3:AD:298:ASN:HB2	1.99	0.43
3:AD:324:LYS:HE3	3:AD:324:LYS:HB3	1.84	0.43
4:AE:9:VAL:HG11	4:AE:150:ALA:HB2	2.00	0.43
4:AE:332:ILE:O	4:AE:336:LYS:HG3	2.18	0.43
3:AF:309:ARG:HE	3:AF:426:GLN:HE21	1.65	0.43
3:AF:398:TYR:HB3	3:AF:403:MET:HB2	2.00	0.43
4:AG:2:ARG:HA	4:AG:133:GLN:NE2	2.33	0.43
4:AG:35:GLN:C	4:AG:36:MET:HE2	2.43	0.43
4:AG:216:ASN:OD1	4:AG:217:LEU:N	2.51	0.43
3:AH:3:GLU:OE2	3:AH:127:CYS:HB2	2.18	0.43
3:AH:8:GLN:HE21	3:AH:14:ASN:HA	1.83	0.43
3:AH:249:ASP:O	3:AH:253:LEU:HG	2.18	0.43
3:AH:309:ARG:HE	3:AH:426:GLN:HE21	1.66	0.43
3:AH:357:PRO:O	3:AH:359:ARG:NH1	2.46	0.43
4:AI:2:ARG:HA	4:AI:133:GLN:NE2	2.34	0.43
4:AI:251:ASP:HB3	4:AI:254:GLU:OE1	2.19	0.43
4:AI:283:HIS:CE1	4:MI:88:HIS:HA	2.53	0.43
3:AL:139:LEU:HD21	3:AL:170:VAL:HG22	1.99	0.43
3:AL:222:TYR:HA	3:AL:225:LEU:HD13	2.00	0.43
3:AL:324:LYS:HE2	4:AM:222:PRO:HG2	2.00	0.43
4:AM:75:VAL:HA	4:AM:78:VAL:HG12	2.00	0.43
1:B:356:ASP:O	1:B:360:LEU:HG	2.17	0.43
5:B2:250:THR:O	5:B2:254:LEU:HD23	2.19	0.43
5:B2:391:MET:HG2	5:B2:394:ARG:NH2	2.34	0.43
5:B5:33:ASP:HA	5:B5:36:HIS:CD2	2.53	0.43
5:B7:69:ASP:HA	5:B7:72:ASN:HD21	1.83	0.43
5:B8:69:ASP:HA	5:B8:72:ASN:HD21	1.82	0.43
3:BD:8:GLN:OE1	3:BD:65:LEU:HD12	2.19	0.43
4:BE:288:VAL:HG21	4:BE:328:VAL:HG22	2.00	0.43
4:BE:346:TRP:N	4:BE:346:TRP:CD1	2.86	0.43
3:BF:376:GLU:H	3:BF:376:GLU:CD	2.25	0.43
4:BK:357:TYR:CD2	14:G6:209:PRO:HG2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BK:390:ARG:HA	4:BK:393:HIS:CD2	2.53	0.43
3:BL:5:VAL:HG23	3:BL:130:LEU:HD21	1.99	0.43
4:BM:216:ASN:OD1	4:BM:217:LEU:N	2.51	0.43
6:C:76:LEU:HA	6:C:79:LEU:HD12	2.01	0.43
7:C2:283:TYR:CE1	7:C3:394:LYS:HD3	2.53	0.43
7:C2:289:ARG:HD3	7:C2:289:ARG:H	1.83	0.43
7:C2:293:THR:HB	7:C3:413:ARG:HG3	1.99	0.43
7:C3:389:LYS:NZ	7:C3:430:THR:HG22	2.33	0.43
7:C4:252:HIS:HA	7:C4:255:GLU:HG2	2.00	0.43
7:C4:441:SER:O	7:C4:445:LEU:HG	2.19	0.43
7:C4:447:SER:O	7:C4:451:THR:HG23	2.18	0.43
7:C6:130:ASP:OD1	7:C6:131:LYS:N	2.51	0.43
7:C8:355:VAL:HA	7:C8:358:LYS:HD3	2.00	0.43
7:C8:391:ALA:O	7:C8:394:LYS:HB3	2.18	0.43
3:CB:11:GLN:HG3	39:CB:501:GTP:PA	2.59	0.43
4:CC:67:PHE:CB	4:CC:92:LEU:HD12	2.46	0.43
4:CC:213:CYS:HB3	4:CC:219:ILE:HB	2.00	0.43
3:CD:180:VAL:HA	3:CD:183:TYR:HD1	1.82	0.43
3:CF:12:CYS:HA	3:CF:15:GLN:OE1	2.18	0.43
3:CF:172:SER:OG	3:CF:205:GLU:OE2	2.21	0.43
4:CG:79:ARG:NH2	15:H3:221:TYR:HA	2.33	0.43
3:CH:239:CYS:SG	3:CH:316:VAL:HG11	2.58	0.43
4:CI:115:VAL:HG23	4:CI:153:LEU:HD11	1.99	0.43
4:CI:192:HIS:CE1	4:CI:193:THR:HG23	2.53	0.43
3:CJ:148:GLY:O	3:CJ:152:ILE:HG12	2.18	0.43
3:CJ:150:LEU:O	3:CJ:153:SER:OG	2.34	0.43
3:CJ:239:CYS:SG	3:CJ:248:ALA:HA	2.58	0.43
3:CJ:313:VAL:HG23	3:CJ:349:VAL:HA	1.99	0.43
4:CK:10:GLY:O	4:CK:14:VAL:HG13	2.18	0.43
4:CK:264:ARG:O	4:CK:266:HIS:ND1	2.47	0.43
3:CL:217:LEU:HD23	3:CL:217:LEU:H	1.83	0.43
3:CL:227:HIS:ND1	14:G6:295:PRO:HG2	2.33	0.43
4:CM:71:GLU:OE1	4:CM:71:GLU:N	2.51	0.43
4:CM:226:ASN:HA	4:CM:229:ARG:HD3	2.00	0.43
7:Ca:192:LEU:HD11	7:Ca:223:VAL:HG13	1.98	0.43
7:Cb:335:GLU:O	7:Cb:339:GLN:HG2	2.18	0.43
8:D3:88:THR:HB	8:D4:346:LYS:HE2	2.00	0.43
8:D4:102:LYS:HZ3	8:D5:376:ARG:HD2	1.82	0.43
8:D4:231:TYR:CD2	8:D5:356:ARG:HD3	2.53	0.43
8:D8:82:GLY:O	8:D8:85:VAL:HG22	2.18	0.43
8:D8:135:LYS:HZ1	8:D8:197:ALA:HB3	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:D8:158:CYS:HB3	8:D8:429:LYS:HD2	2.00	0.43
4:DA:36:MET:HE3	4:DA:61:HIS:NE2	2.33	0.43
4:DA:89:PRO:HG2	4:EA:280:LYS:HD3	2.00	0.43
3:DB:48:ASN:OD1	15:H2:288:PHE:N	2.51	0.43
3:DD:152:ILE:HA	3:DD:155:ILE:HG22	2.00	0.43
4:DE:297:GLU:HB3	4:DE:300:ASN:OD1	2.18	0.43
4:DE:385:ALA:HB2	4:DE:432:TYR:HD2	1.84	0.43
4:DG:420:GLU:HA	4:DG:423:GLU:OE2	2.18	0.43
3:DH:51:TYR:CD1	3:DH:61:PRO:HA	2.53	0.43
3:DJ:48:ASN:OD1	15:H6:288:PHE:N	2.50	0.43
3:DJ:224:ASP:HA	3:DJ:227:HIS:HB3	1.99	0.43
3:DJ:312:THR:OG1	3:DJ:370:ASN:HB3	2.18	0.43
4:DK:90:GLU:OE1	4:DK:90:GLU:N	2.50	0.43
3:DL:309:ARG:O	3:DL:371:SER:OG	2.26	0.43
3:DL:426:GLN:HE21	3:DL:426:GLN:HB3	1.72	0.43
9:E:445:ASN:HD22	9:E:445:ASN:C	2.27	0.43
4:EA:11:GLN:HG3	39:EA:501:GTP:O1B	2.19	0.43
4:EC:345:ASP:N	4:EC:345:ASP:OD1	2.50	0.43
3:EF:100:ASN:HB3	3:EF:103:LYS:HB3	2.00	0.43
4:EG:115:VAL:HA	4:EG:118:VAL:HG22	2.00	0.43
4:EG:319:TYR:HB2	4:EG:355:ILE:HD13	2.01	0.43
3:EH:12:CYS:HA	39:EH:501:GTP:N2	2.33	0.43
4:EI:87:PHE:HD2	4:EI:92:LEU:HD21	1.83	0.43
4:EI:325:PRO:HB2	3:EJ:208:TYR:OH	2.17	0.43
3:EJ:276:ARG:HD3	14:G6:405:SER:HB2	2.00	0.43
4:EK:40:LYS:N	13:G3:421:ARG:HH12	2.16	0.43
3:EL:420:SER:O	3:EL:424:GLN:HG3	2.17	0.43
11:F3:145:ARG:NH2	11:F3:148:ASP:OD2	2.51	0.43
11:F4:153:LYS:HD3	11:F4:257:LYS:HE3	2.00	0.43
11:F5:237:ASP:O	11:F5:241:ARG:HG2	2.17	0.43
11:F5:301:ASN:HB3	11:F5:305:ARG:NH2	2.34	0.43
11:F7:96:ASP:HA	11:F7:99:ASN:OD1	2.18	0.43
11:F7:184:VAL:O	11:F7:187:PRO:HD2	2.17	0.43
4:FA:172:TYR:HB2	4:FA:203:MET:HB2	2.01	0.43
4:FA:315:CYS:O	4:FA:351:PHE:HA	2.18	0.43
4:FA:414:GLU:HG2	4:FA:417:GLU:OE1	2.18	0.43
4:FC:3:GLU:CD	4:FC:132:LEU:H	2.26	0.43
3:FD:66:VAL:HA	3:FD:91:VAL:O	2.18	0.43
3:FF:292:GLN:HA	3:FF:295:ASP:OD2	2.19	0.43
3:FF:292:GLN:O	3:FF:298:ASN:ND2	2.45	0.43
4:FG:111:GLY:O	4:FG:115:VAL:HG13	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FI:16:ILE:HG13	4:FI:17:GLY:N	2.32	0.43
4:FI:104:ALA:HB1	4:FI:108:TYR:CD2	2.53	0.43
4:FK:425:LEU:O	4:FK:428:LEU:N	2.50	0.43
3:FL:383:GLU:HG2	3:FL:384:GLN:N	2.33	0.43
3:FL:412:GLU:HA	3:FL:415:MET:HE2	2.00	0.43
11:Fb:360:GLN:O	11:Fb:364:ILE:HD12	2.18	0.43
11:Fe:250:LEU:O	11:Fe:254:ILE:HG23	2.18	0.43
11:Fg:419:GLU:O	11:Fg:423:ILE:HG12	2.18	0.43
11:Fi:379:GLU:HA	11:Fi:382:ILE:HG22	2.00	0.43
11:Fk:226:GLN:HB3	11:Fk:230:ARG:CZ	2.48	0.43
11:Fk:353:VAL:O	11:Fk:357:LEU:HG	2.18	0.43
11:Fl:241:ARG:O	11:Fl:245:ASP:N	2.26	0.43
11:Fm:166:GLU:O	11:Fm:170:MET:HG2	2.19	0.43
12:G:127:LYS:HG3	12:G:131:ARG:HH12	1.82	0.43
12:G:216:GLU:O	12:G:220:GLU:N	2.45	0.43
13:G1:105:GLU:N	13:G1:116:ARG:O	2.47	0.43
13:G2:248:ILE:HB	13:G2:261:HIS:CD2	2.53	0.43
13:G3:191:GLN:HG2	13:G3:192:ASP:N	2.34	0.43
13:G3:345:TYR:O	13:G3:366:PRO:HA	2.19	0.43
14:G4:137:PRO:HD2	14:G4:161:TYR:CE1	2.53	0.43
14:G5:307:TYR:CZ	14:G5:317:GLY:HA3	2.53	0.43
14:G5:672:ASP:O	14:G5:676:CYS:N	2.43	0.43
14:G6:652:VAL:HG23	14:G6:687:GLN:HB3	2.00	0.43
4:GA:70:LEU:HA	4:GA:95:GLY:HA3	2.00	0.43
3:GB:139:LEU:N	3:GB:168:SER:OG	2.51	0.43
4:GC:326:LYS:HE3	3:GD:219:THR:HA	2.00	0.43
3:GD:12:CYS:HB3	39:GD:501:GTP:O4'	2.18	0.43
3:GD:130:LEU:HB3	3:GD:162:ARG:HH11	1.83	0.43
3:GD:258:VAL:O	3:GD:258:VAL:HG13	2.18	0.43
4:GE:252:LEU:HD12	4:GE:253:THR:N	2.33	0.43
4:GG:53:PHE:HE1	4:GG:63:PRO:HG3	1.83	0.43
4:GG:318:LEU:O	4:GG:375:VAL:HA	2.18	0.43
4:GG:420:GLU:HA	4:GG:423:GLU:OE2	2.18	0.43
3:GH:271:ALA:HB2	3:GH:365:ALA:HB3	2.00	0.43
3:GL:215:LEU:HD11	3:GL:228:LEU:HD11	2.00	0.43
15:H1:216:LYS:HE2	15:H1:219:SER:H	1.83	0.43
15:H2:314:ARG:C	15:H2:316:SER:H	2.26	0.43
15:H3:256:HIS:O	15:H3:256:HIS:CG	2.70	0.43
15:H4:310:LYS:HD2	15:H4:313:ASP:HB2	2.00	0.43
15:H6:26:GLN:O	15:H6:42:LEU:HD22	2.18	0.43
15:H6:44:THR:O	15:H6:48:VAL:HG23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H6:217:ALA:C	15:H6:219:SER:H	2.23	0.43
4:HA:60:LYS:HD2	4:IA:283:HIS:CB	2.46	0.43
4:HA:89:PRO:HD2	4:IA:280:LYS:HZ3	1.83	0.43
4:HA:228:ASN:HA	4:HA:231:ILE:HG12	2.00	0.43
3:HB:259:PRO:HA	4:HC:404:PHE:CE1	2.54	0.43
3:HB:325:GLU:HB3	4:HC:221:ARG:NH1	2.33	0.43
3:HB:385:PHE:HZ	3:HB:408:PHE:HB3	1.84	0.43
4:HC:12:ALA:O	39:HC:501:GTP:N1	2.52	0.43
4:HC:389:ALA:HA	4:HC:392:ASP:OD2	2.18	0.43
4:HE:16:ILE:HG13	4:HE:17:GLY:N	2.32	0.43
4:HE:185:TYR:HA	4:HE:395:PHE:HE1	1.82	0.43
4:HE:196:GLU:HG2	4:HE:197:HIS:ND1	2.33	0.43
4:HG:10:GLY:O	4:HG:13:GLY:N	2.47	0.43
4:HG:218:ASP:HA	23:M:143:ASP:OD1	2.19	0.43
3:HH:318:ARG:HA	3:HH:354:CYS:HB3	2.01	0.43
3:HJ:205:GLU:HA	3:HJ:208:TYR:HD2	1.82	0.43
3:HJ:249:ASP:O	3:HJ:253:LEU:HG	2.17	0.43
4:HK:319:TYR:HB3	4:HK:323:VAL:HG21	2.00	0.43
4:HK:396:ASP:OD1	4:HK:397:LEU:N	2.52	0.43
4:HK:428:LEU:O	4:HK:432:TYR:N	2.34	0.43
3:IB:203:ASP:OD2	3:IB:205:GLU:HB2	2.18	0.43
4:IC:6:SER:HA	4:IC:136:LEU:HB2	1.99	0.43
4:IC:30:ILE:HG13	4:IC:53:PHE:HE2	1.83	0.43
3:ID:350:LYS:HE3	4:IE:181:VAL:N	2.33	0.43
4:IE:115:VAL:HA	4:IE:118:VAL:HG22	2.00	0.43
3:IF:182:PRO:HB2	3:IF:388:MET:HE1	2.00	0.43
3:IF:309:ARG:O	3:IF:372:THR:N	2.41	0.43
4:IG:67:PHE:HB2	4:IG:92:LEU:HD13	2.00	0.43
4:II:89:PRO:HD3	3:JH:281:TYR:CE2	2.54	0.43
4:II:234:ILE:O	4:II:237:SER:OG	2.33	0.43
3:IJ:305:PRO:HA	3:IJ:373:ALA:HB2	2.00	0.43
4:IK:87:PHE:HB3	4:IK:92:LEU:HD21	1.99	0.43
4:IK:230:LEU:O	4:IK:234:ILE:HG12	2.18	0.43
4:IK:260:VAL:O	3:IL:397:TRP:HH2	2.01	0.43
4:IK:363:VAL:HG13	4:IK:366:GLY:HA3	2.00	0.43
4:IM:67:PHE:N	4:IM:91:GLN:O	2.51	0.43
4:IM:288:VAL:O	4:IM:292:THR:OG1	2.26	0.43
4:IM:371:VAL:HG11	4:IM:374:ALA:HB2	1.99	0.43
3:JB:87:PRO:HA	3:JB:90:PHE:CD2	2.53	0.43
3:JB:131:GLN:HB3	3:JB:163:ILE:HD12	2.01	0.43
3:JB:320:ARG:NH1	3:JB:355:ASP:HB2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:JC:105:ARG:O	4:JC:109:THR:OG1	2.22	0.43
4:JC:280:LYS:HD2	4:JC:280:LYS:HA	1.79	0.43
4:JC:427:ALA:HA	4:JC:430:LYS:HG2	2.01	0.43
3:JD:389:PHE:HZ	3:JD:405:GLU:HB2	1.83	0.43
4:JE:216:ASN:OD1	4:JE:217:LEU:N	2.49	0.43
3:JF:392:LYS:O	3:JF:395:LEU:HD22	2.19	0.43
4:JI:22:GLU:HG2	4:JI:83:TYR:HE2	1.82	0.43
4:JI:141:PHE:HB2	4:JI:173:PRO:HD3	2.00	0.43
3:JL:51:TYR:HB3	3:JL:59:TYR:HB3	2.00	0.43
3:JL:246:LEU:HD12	3:JL:352:ALA:HB1	1.99	0.43
3:JL:378:PHE:CD1	3:JL:419:VAL:HG22	2.53	0.43
20:K:166:THR:HG22	20:K:194:ASN:HD21	1.82	0.43
21:K1:415:LEU:HD13	21:K2:114:HIS:HD2	1.83	0.43
21:K2:489:PRO:C	21:K2:491:ARG:H	2.25	0.43
21:K3:261:ARG:HD3	21:K3:264:TRP:HA	2.01	0.43
21:K3:389:ALA:HB3	4:KI:163:LYS:HG2	2.00	0.43
21:K3:479:ARG:HH21	4:LG:339:ARG:NH2	2.15	0.43
21:K4:462:ARG:HE	21:K4:466:ARG:NH1	2.17	0.43
4:KA:251:ASP:HB3	4:KA:254:GLU:OE1	2.17	0.43
4:KA:387:ALA:O	4:KA:391:LEU:HG	2.18	0.43
3:KB:324:LYS:NZ	4:KC:222:PRO:O	2.46	0.43
4:KC:51:THR:HG23	4:KC:52:PHE:CD2	2.53	0.43
4:KC:261:PRO:HG3	4:KC:313:MET:SD	2.59	0.43
3:KD:270:PHE:O	3:KD:298:ASN:ND2	2.46	0.43
4:KG:154:MET:HA	4:KG:157:LEU:HG	2.00	0.43
3:KH:80:PRO:O	3:KH:83:GLN:NE2	2.36	0.43
3:KH:156:ARG:NH1	3:KH:195:ASN:O	2.52	0.43
3:KH:250:LEU:HD13	3:KH:253:LEU:HD12	1.99	0.43
3:KJ:130:LEU:HB2	3:KJ:162:ARG:HH11	1.83	0.43
3:KJ:150:LEU:O	3:KJ:153:SER:OG	2.34	0.43
3:KJ:306:ARG:O	3:KJ:306:ARG:NE	2.49	0.43
4:KK:121:ARG:O	4:KK:124:LYS:HG2	2.19	0.43
4:KK:182:VAL:O	4:KK:185:TYR:HB2	2.18	0.43
4:KK:192:HIS:CE1	4:KK:193:THR:HG23	2.53	0.43
3:KL:113:VAL:HA	3:KL:116:VAL:HG22	1.99	0.43
3:KL:222:TYR:HA	3:KL:225:LEU:HD13	2.00	0.43
3:KL:318:ARG:HA	3:KL:354:CYS:HB3	1.99	0.43
20:L:47:LYS:HA	20:L:50:ILE:HG22	2.00	0.43
22:L2:167:LYS:O	22:L2:170:GLU:N	2.51	0.43
4:LA:285:GLN:NE2	4:LA:286:LEU:O	2.51	0.43
4:LA:409:VAL:HG12	4:LA:414:GLU:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LB:5:VAL:HB	3:LB:133:PHE:CE1	2.54	0.43
4:LE:47:ASP:O	4:LE:50:ASN:N	2.40	0.43
4:LE:161:TYR:HB3	4:LE:164:LYS:HZ3	1.83	0.43
4:LE:216:ASN:OD1	4:LE:217:LEU:N	2.49	0.43
4:LE:255:PHE:O	4:LE:259:LEU:HB2	2.18	0.43
4:LE:320:ARG:CZ	4:LE:360:PRO:HA	2.49	0.43
4:LG:240:ALA:HA	4:LG:243:ARG:HB2	2.01	0.43
3:LH:246:LEU:HD22	3:LH:354:CYS:HA	2.00	0.43
4:LI:420:GLU:HA	4:LI:423:GLU:CD	2.44	0.43
3:LJ:130:LEU:HD13	3:LJ:133:PHE:HE1	1.83	0.43
4:LK:216:ASN:ND2	4:LK:275:VAL:HG23	2.33	0.43
3:LL:101:TRP:CE3	3:LL:187:LEU:HD13	2.53	0.43
3:LL:150:LEU:O	3:LL:153:SER:OG	2.34	0.43
24:M2:65:LYS:HB3	24:M2:66:PHE:CE1	2.53	0.43
3:MB:218:THR:HG1	3:MB:219:THR:H	1.65	0.43
3:MB:292:GLN:O	3:MB:298:ASN:ND2	2.42	0.43
3:MB:324:LYS:HD3	4:MC:210:TYR:CE1	2.53	0.43
3:MB:379:LYS:O	3:MB:382:SER:OG	2.20	0.43
4:MC:34:GLY:HA2	4:MC:86:LEU:HD21	1.99	0.43
4:MC:145:THR:OG1	39:MC:501:GTP:O1B	2.34	0.43
4:MC:311:LYS:NZ	4:MC:343:PHE:O	2.48	0.43
3:MD:47:ILE:HG12	3:MD:59:TYR:CD2	2.53	0.43
3:MD:189:VAL:HA	3:MD:192:LEU:HD12	2.00	0.43
4:MG:119:LEU:HD23	4:MG:122:ILE:HD12	2.01	0.43
3:MH:137:HIS:O	3:MH:168:SER:HA	2.18	0.43
3:MH:152:ILE:HA	3:MH:155:ILE:HG12	2.01	0.43
4:MI:172:TYR:CD1	4:MI:203:MET:HG2	2.54	0.43
4:MK:172:TYR:N	4:MK:204:VAL:O	2.40	0.43
3:ML:152:ILE:O	3:ML:156:ARG:HG2	2.18	0.43
4:NA:36:MET:HG3	4:NA:41:THR:OG1	2.17	0.43
4:NA:165:SER:C	4:NA:166:LYS:HD2	2.44	0.43
4:NA:239:THR:OG1	4:NA:243:ARG:NH1	2.51	0.43
4:NC:35:GLN:HG2	4:NC:59:GLY:O	2.18	0.43
4:NC:269:LEU:N	4:NC:379:SER:O	2.36	0.43
4:NE:75:VAL:HG22	4:NE:79:ARG:HH21	1.83	0.43
3:NF:52:ASN:ND2	3:NF:62:ARG:HD3	2.33	0.43
3:NF:258:VAL:HB	4:NG:407:TRP:HZ2	1.83	0.43
3:NH:379:LYS:O	3:NH:382:SER:OG	2.19	0.43
4:NI:2:ARG:HA	4:NI:133:GLN:NE2	2.34	0.43
4:NI:245:ASP:OD1	4:NI:249:ASN:ND2	2.50	0.43
4:NI:260:VAL:O	3:NJ:397:TRP:HH2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NJ:58:LYS:HE2	3:OJ:281:TYR:CE1	2.52	0.43
3:NJ:156:ARG:CZ	3:NJ:164:MET:HE3	2.48	0.43
3:NJ:309:ARG:O	3:NJ:371:SER:OG	2.24	0.43
28:O3:88:ALA:O	28:O3:92:LEU:HG	2.17	0.43
28:O3:91:ASN:O	28:O3:95:TRP:N	2.31	0.43
4:OA:414:GLU:OE1	4:OA:416:GLY:N	2.34	0.43
4:OC:51:THR:HG23	4:OC:52:PHE:CD2	2.53	0.43
4:OC:115:VAL:O	4:OC:119:LEU:N	2.39	0.43
4:OC:189:LEU:HA	4:OC:192:HIS:ND1	2.33	0.43
4:OC:311:LYS:HE3	4:OC:344:VAL:HA	2.00	0.43
3:OD:134:GLN:HA	3:OD:165:ASN:HB3	2.01	0.43
4:OE:51:THR:HG23	4:OE:52:PHE:CD2	2.53	0.43
3:OF:9:ALA:HB1	3:OF:147:MET:SD	2.59	0.43
3:OF:12:CYS:SG	3:OF:13:GLY:N	2.92	0.43
4:OI:52:PHE:CZ	4:OI:239:THR:HB	2.54	0.43
3:OJ:77:ARG:O	3:OJ:77:ARG:NH1	2.40	0.43
4:OK:263:PRO:O	4:OK:264:ARG:HB2	2.19	0.43
3:OL:70:PRO:O	3:OL:73:MET:HG2	2.18	0.43
27:P:255:ASN:N	27:P:255:ASN:OD1	2.51	0.43
29:P1:42:PRO:HA	29:P1:47:VAL:HA	2.00	0.43
29:P1:316:ARG:O	29:P1:325:THR:OG1	2.29	0.43
29:P1:401:PHE:C	29:P1:409:MET:HE2	2.43	0.43
29:P2:45:CYS:H	29:P2:587:SER:HB3	1.83	0.43
4:PA:139:HIS:HE1	4:PA:168:GLU:HB3	1.84	0.43
4:PA:427:ALA:HA	4:PA:430:LYS:HG2	1.99	0.43
3:PB:77:ARG:O	3:PB:77:ARG:NH1	2.40	0.43
4:PE:7:ILE:O	4:PE:138:PHE:N	2.43	0.43
4:PE:301:GLN:N	4:PE:301:GLN:OE1	2.51	0.43
4:PE:321:GLY:HA3	4:PE:372:GLN:O	2.18	0.43
3:PF:16:ILE:HD13	3:PF:226:ASN:ND2	2.31	0.43
4:PG:362:VAL:HA	4:PG:368:LEU:HD21	1.99	0.43
4:PG:411:GLU:OE2	4:PG:413:MET:HE1	2.18	0.43
3:PH:253:LEU:O	3:PH:257:MET:HG2	2.18	0.43
4:PI:46:ASP:HA	4:PI:50:ASN:HB3	1.99	0.43
3:PJ:374:ILE:HA	3:PJ:377:LEU:HD13	1.99	0.43
3:PL:152:ILE:HG23	3:PL:164:MET:HE2	2.01	0.43
30:Q1:1358:ILE:H	30:Q1:1393:LYS:HB3	1.83	0.43
30:Q1:1358:ILE:N	30:Q1:1393:LYS:HB3	2.33	0.43
30:Q2:1457:SER:O	30:Q2:1460:THR:OG1	2.32	0.43
30:Q3:1447:ILE:HG21	30:Q3:1514:PHE:CD2	2.54	0.43
3:QB:311:LEU:HD23	3:QB:342:VAL:HG11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:QC:148:GLY:O	4:QC:151:SER:OG	2.31	0.43
3:QD:32:PRO:C	3:QD:83:GLN:HE21	2.22	0.43
3:QD:276:ARG:NH1	3:QD:276:ARG:HG2	2.34	0.43
4:QE:187:SER:O	4:QE:191:THR:HG23	2.19	0.43
4:QG:152:LEU:HD12	4:QG:153:LEU:N	2.33	0.43
4:QK:168:GLU:HB2	4:QK:201:ALA:HA	1.99	0.43
3:QL:312:THR:HA	3:QL:348:ASN:HB2	1.99	0.43
4:QM:3:GLU:CD	4:QM:132:LEU:H	2.27	0.43
4:QM:83:TYR:HB3	4:QM:86:LEU:HD12	1.99	0.43
4:QM:239:THR:OG1	4:QM:243:ARG:NH1	2.52	0.43
31:R1:256:ASP:OD1	31:R1:259:ARG:NH2	2.42	0.43
3:RB:292:GLN:HA	3:RB:295:ASP:OD2	2.17	0.43
4:RC:50:ASN:OD1	4:RC:51:THR:N	2.51	0.43
4:RC:75:VAL:HA	4:RC:78:VAL:HG12	1.99	0.43
4:RC:175:PRO:O	4:RC:390:ARG:HD3	2.17	0.43
4:RC:317:MET:O	4:RC:353:VAL:HA	2.19	0.43
4:RC:332:ILE:HG13	4:RC:336:LYS:HZ2	1.84	0.43
4:RC:352:LYS:NZ	3:RD:177:ASP:OD1	2.52	0.43
4:RC:415:GLU:OE1	4:RC:415:GLU:N	2.47	0.43
3:RD:172:SER:HB3	3:RD:175:VAL:O	2.19	0.43
3:RD:250:LEU:HD13	3:RD:253:LEU:HD12	2.00	0.43
3:RD:375:GLN:HA	3:RD:378:PHE:CE1	2.54	0.43
4:RE:220:GLU:O	4:RE:221:ARG:NE	2.45	0.43
3:RH:246:LEU:HD22	3:RH:354:CYS:HA	2.00	0.43
4:RI:52:PHE:CZ	4:RI:239:THR:HB	2.53	0.43
4:RI:102:ASN:CG	4:RI:105:ARG:H	2.25	0.43
4:RI:116:ASP:OD1	4:RI:117:LEU:N	2.51	0.43
4:RI:165:SER:C	4:RI:166:LYS:HD2	2.42	0.43
4:RI:196:GLU:HG2	4:RI:197:HIS:ND1	2.33	0.43
4:RI:263:PRO:O	4:RI:264:ARG:HB2	2.19	0.43
4:RI:391:LEU:HA	4:RI:394:LYS:HE3	1.99	0.43
4:RI:423:GLU:HA	4:RI:426:ALA:HB3	2.00	0.43
3:RJ:198:GLU:HA	3:RJ:266:PHE:CE2	2.46	0.43
4:RK:196:GLU:HG2	4:RK:197:HIS:ND1	2.33	0.43
4:RK:318:LEU:O	4:RK:375:VAL:HA	2.18	0.43
3:RL:229:VAL:O	3:RL:232:THR:OG1	2.24	0.43
3:SB:11:GLN:O	3:SB:14:ASN:HB2	2.18	0.43
3:SB:145:SER:O	3:SB:149:THR:HG23	2.18	0.43
3:SB:200:TYR:HE1	3:SB:368:ILE:HD13	1.83	0.43
4:SC:145:THR:OG1	39:SC:501:GTP:O1B	2.31	0.43
4:SC:172:TYR:CE2	4:SC:387:ALA:HB1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:SC:263:PRO:O	4:SC:264:ARG:HB2	2.19	0.43
3:SD:101:TRP:HB2	3:SD:184:ASN:HD22	1.83	0.43
3:SD:345:ILE:HG23	3:SD:348:ASN:HB3	2.00	0.43
4:SE:287:SER:N	4:SE:290:GLU:OE2	2.51	0.43
4:SE:398:MET:O	4:SE:402:ARG:N	2.50	0.43
4:SG:405:VAL:O	4:SG:409:VAL:HG22	2.18	0.43
4:SK:70:LEU:HD23	4:SK:145:THR:HB	2.00	0.43
4:SK:287:SER:N	4:SK:290:GLU:OE2	2.51	0.43
3:SL:7:LEU:HD13	3:SL:64:VAL:HB	2.00	0.43
3:SL:183:TYR:CD1	3:SL:388:MET:HE3	2.52	0.43
3:SL:190:HIS:ND1	3:SL:411:ALA:HA	2.33	0.43
4:SM:88:HIS:CE1	4:TM:280:LYS:HZ3	2.36	0.43
3:TF:313:VAL:HG23	3:TF:349:VAL:HA	2.00	0.43
3:TH:324:LYS:HD2	4:TI:221:ARG:HA	1.99	0.43
4:TI:21:TRP:HD1	4:TI:67:PHE:HZ	1.67	0.43
4:TI:176:GLN:NE2	4:TI:177:VAL:HG23	2.34	0.43
4:TI:203:MET:HE1	4:TI:267:PHE:HB3	1.99	0.43
3:TJ:15:GLN:NE2	39:TJ:501:GTP:C2	2.76	0.43
3:TJ:81:PHE:O	3:TJ:84:ILE:HG22	2.18	0.43
4:TK:176:GLN:NE2	4:TK:207:GLU:OE2	2.51	0.43
4:TK:203:MET:HE3	4:TK:267:PHE:CE1	2.54	0.43
3:TL:120:VAL:O	3:TL:124:ALA:N	2.44	0.43
3:TN:305:PRO:HB3	3:TN:371:SER:OG	2.18	0.43
33:U:343:PHE:O	33:U:346:LYS:HG3	2.18	0.43
33:U:451:ARG:HD2	33:U:452:ALA:N	2.34	0.43
4:UA:160:ASP:OD1	4:UA:161:TYR:N	2.51	0.43
3:UB:83:GLN:O	3:UB:86:ARG:NH2	2.52	0.43
3:UB:316:VAL:O	3:UB:366:THR:N	2.40	0.43
4:UC:141:PHE:HB2	4:UC:173:PRO:HD3	2.01	0.43
4:UC:146:GLY:N	39:UC:501:GTP:O2B	2.51	0.43
3:UD:295:ASP:HB2	3:UD:298:ASN:HB2	2.00	0.43
4:UE:132:LEU:HD21	4:UE:135:PHE:HE1	1.82	0.43
3:UH:114:ASP:OD1	3:UH:114:ASP:N	2.49	0.43
3:UJ:7:LEU:HB2	3:UJ:135:LEU:HG	2.00	0.43
3:UJ:49:VAL:C	3:UJ:62:ARG:HH21	2.26	0.43
3:UL:272:PRO:HA	3:UL:292:GLN:OE1	2.18	0.43
4:VA:8:HIS:CD2	4:VA:17:GLY:HA3	2.54	0.43
4:VA:188:ILE:HG22	4:VA:421:ALA:HB1	1.99	0.43
3:VB:87:PRO:HA	3:VB:90:PHE:CD2	2.54	0.43
4:VC:386:GLU:HA	4:VC:389:ALA:HB3	2.00	0.43
3:VD:150:LEU:C	3:VD:154:LYS:HZ3	2.26	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VD:252:LYS:O	3:VD:256:ASN:ND2	2.51	0.43
4:VE:8:HIS:CD2	4:VE:17:GLY:HA3	2.53	0.43
4:VI:192:HIS:CE1	4:VI:193:THR:HG23	2.54	0.43
4:VI:252:LEU:HA	4:VI:255:PHE:CD2	2.53	0.43
4:VK:165:SER:C	4:VK:166:LYS:HD2	2.44	0.43
3:VL:52:ASN:ND2	3:VL:62:ARG:HD3	2.34	0.43
3:VL:282:ARG:HE	3:VL:288:GLU:CD	2.26	0.43
4:WA:102:ASN:HD22	4:WA:105:ARG:HG3	1.84	0.43
4:WA:143:GLY:O	4:WA:147:SER:OG	2.25	0.43
4:WA:145:THR:OG1	39:WA:501:GTP:O1B	2.34	0.43
3:WB:134:GLN:HA	3:WB:165:ASN:HB3	2.01	0.43
3:WB:137:HIS:O	3:WB:168:SER:HA	2.18	0.43
4:WC:132:LEU:HB3	35:XI:71:HIS:CE1	2.52	0.43
4:WC:405:VAL:O	4:WC:409:VAL:HG22	2.18	0.43
3:WD:51:TYR:CD1	3:WD:61:PRO:HA	2.53	0.43
3:WD:234:SER:O	3:WD:238:THR:HG23	2.18	0.43
4:WE:235:VAL:HA	4:WE:238:ILE:HG12	2.01	0.43
3:WF:3:GLU:OE2	3:WF:129:CYS:N	2.51	0.43
4:WG:22:GLU:HA	4:WG:83:TYR:HE2	1.83	0.43
3:WH:47:ILE:HG21	3:WH:59:TYR:CE2	2.53	0.43
4:WI:278:ALA:O	4:WI:370:LYS:NZ	2.51	0.43
3:WJ:384:GLN:O	3:WJ:388:MET:HG2	2.19	0.43
4:WK:1:MET:HE3	4:WK:50:ASN:ND2	2.33	0.43
3:WL:41:ASP:N	3:WL:41:ASP:OD1	2.49	0.43
34:XC:81:LYS:HB2	34:XC:129:TRP:CE2	2.53	0.43
34:XD:81:LYS:HD3	34:XD:161:ARG:HH11	1.84	0.43
34:XE:4:ASN:OD1	34:XE:5:THR:N	2.52	0.43
34:XG:25:TRP:CE3	34:XG:59:ILE:HG13	2.53	0.43
35:XH:96:PHE:CE2	35:XH:115:ILE:HG13	2.54	0.43
35:XH:130:ILE:HG13	35:XH:131:PRO:CD	2.48	0.43
35:XJ:143:LEU:HD13	35:XJ:148:ILE:HD13	1.99	0.43
35:XK:148:ILE:O	35:XK:152:THR:HG23	2.18	0.43
37:YA:139:SER:O	37:YA:143:ILE:HG13	2.19	0.43
37:YB:117:TYR:CD1	37:YB:118:PRO:HA	2.54	0.43
37:YC:45:SER:HB3	37:YC:48:GLN:OE1	2.18	0.43
37:YF:27:ALA:O	37:YF:31:HIS:ND1	2.52	0.43
37:YI:46:ILE:HD12	37:YI:46:ILE:H	1.83	0.43
37:YI:72:ILE:HA	37:YI:75:GLU:CD	2.44	0.43
37:YK:11:ILE:HD11	37:YK:72:ILE:HG23	2.00	0.43
37:YK:146:ASP:OD1	37:YK:147:PHE:N	2.51	0.43
37:YN:13:GLN:HA	37:YN:16:LYS:HG2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:YN:141:ILE:O	37:YN:145:LEU:N	2.43	0.43
37:YS:46:ILE:HD12	37:YS:46:ILE:H	1.83	0.43
37:YU:46:ILE:HD12	37:YU:46:ILE:H	1.82	0.43
37:YV:42:PRO:HA	37:YV:133:HIS:HB3	2.00	0.43
37:YW:150:GLU:OE1	37:YW:150:GLU:N	2.36	0.43
1:A:128:LEU:HD21	1:B:467:VAL:HG11	1.99	0.43
1:A:169:LEU:HA	1:A:172:GLU:HG3	2.00	0.43
2:A1:213:SER:OG	2:A1:215:GLU:OE2	2.35	0.43
2:A2:79:ASP:O	2:A2:82:GLU:HG2	2.19	0.43
2:A2:299:LEU:O	2:A2:303:ILE:HG12	2.19	0.43
2:A3:257:CYS:O	2:A3:260:VAL:HG22	2.19	0.43
4:AC:171:ILE:HD12	4:AC:204:VAL:HG13	2.00	0.43
4:AC:293:ASN:O	4:AC:297:GLU:N	2.51	0.43
4:AC:327:ASP:OD1	4:AC:328:VAL:N	2.51	0.43
4:AE:1:MET:SD	4:AE:2:ARG:N	2.92	0.43
4:AE:10:GLY:O	4:AE:14:VAL:HG13	2.18	0.43
4:AE:184:PRO:HG2	4:AE:398:MET:HE1	1.99	0.43
4:AE:202:PHE:CD1	4:AE:268:PRO:HD2	2.54	0.43
3:AF:174:LYS:HG2	3:AF:205:GLU:OE2	2.18	0.43
4:AG:201:ALA:HB3	4:AG:267:PHE:HD1	1.83	0.43
3:AH:12:CYS:HA	39:AH:501:GTP:N2	2.34	0.43
3:AH:330:MET:CG	3:AH:349:VAL:HG11	2.48	0.43
4:AI:25:CYS:O	4:AI:30:ILE:N	2.46	0.43
4:AI:72:PRO:HA	4:AI:75:VAL:HG12	2.00	0.43
4:AI:338:LYS:NZ	4:AI:339:ARG:H	2.16	0.43
3:AL:376:GLU:O	3:AL:380:ARG:HG3	2.18	0.43
4:AM:331:ALA:O	4:AM:335:ILE:HG12	2.18	0.43
1:B:292:GLU:O	1:B:296:VAL:HG23	2.18	0.43
5:B2:97:GLU:HB3	5:B2:101:GLN:HE22	1.84	0.43
5:B2:108:LEU:HD11	5:B2:396:LYS:HD3	1.99	0.43
5:B3:124:ARG:O	5:B3:128:VAL:HG23	2.18	0.43
5:B4:7:LYS:HZ3	8:D3:326:LEU:HA	1.82	0.43
5:B7:283:GLU:HB3	5:B7:373:ILE:HD12	2.00	0.43
5:B9:301:GLU:HG3	5:B9:305:ARG:HH22	1.84	0.43
4:BC:251:ASP:HB3	4:BC:254:GLU:OE1	2.19	0.43
3:BD:82:GLY:HA2	3:BD:85:PHE:CD2	2.53	0.43
3:BD:152:ILE:HA	3:BD:155:ILE:HG12	2.00	0.43
3:BD:249:ASP:O	3:BD:252:LYS:HB3	2.18	0.43
3:BD:412:GLU:O	3:BD:416:ASN:N	2.37	0.43
3:BF:12:CYS:SG	3:BF:13:GLY:N	2.91	0.43
3:BF:305:PRO:HB2	3:BF:310:TYR:HE1	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BH:101:TRP:CE3	3:BH:187:LEU:HD13	2.53	0.43
4:BI:35:GLN:HG2	4:BI:59:GLY:O	2.19	0.43
4:BI:274:PRO:HG3	4:BI:374:ALA:HA	2.00	0.43
3:BJ:246:LEU:HB2	3:BJ:352:ALA:HB1	2.00	0.43
4:BK:278:ALA:O	4:BK:370:LYS:NZ	2.52	0.43
3:BL:28:HIS:O	3:BL:43:GLN:NE2	2.52	0.43
7:C3:330:ILE:HG13	7:C3:334:ASN:OD1	2.19	0.43
7:C6:248:ARG:HH21	7:Ca:197:GLU:HA	1.83	0.43
7:C6:268:ASP:O	7:C6:272:GLN:N	2.41	0.43
7:C7:197:GLU:HB2	7:Cb:248:ARG:HH22	1.84	0.43
7:C7:270:LYS:HA	7:C7:270:LYS:HD2	1.93	0.43
7:C7:467:TYR:O	7:C7:471:GLU:OE1	2.36	0.43
7:C9:415:MET:HE2	7:C9:419:ARG:NE	2.32	0.43
3:CB:318:ARG:HE	3:CB:365:ALA:HA	1.83	0.43
3:CB:357:PRO:O	3:CB:359:ARG:NH1	2.49	0.43
4:CC:285:GLN:NE2	4:CC:286:LEU:O	2.51	0.43
3:CD:3:GLU:HB2	3:CD:62:ARG:NH2	2.34	0.43
3:CD:113:VAL:HA	3:CD:116:VAL:HG22	2.00	0.43
3:CD:309:ARG:HE	3:CD:426:GLN:NE2	2.15	0.43
4:CE:88:HIS:HD2	4:DC:284:GLU:OE2	2.02	0.43
4:CE:116:ASP:N	4:CE:116:ASP:OD1	2.47	0.43
3:CF:197:ASP:OD1	3:CF:198:GLU:N	2.51	0.43
3:CF:324:LYS:HE2	4:CG:222:PRO:HG2	2.01	0.43
4:CG:185:TYR:HA	4:CG:395:PHE:HE1	1.83	0.43
3:CH:118:ASP:HA	3:CH:121:ARG:HG2	2.01	0.43
4:CI:35:GLN:HG2	4:CI:59:GLY:O	2.19	0.43
4:CI:70:LEU:HA	4:CI:95:GLY:HA3	2.01	0.43
3:CJ:169:VAL:HA	3:CJ:202:ILE:HB	2.00	0.43
4:CK:66:VAL:HG12	4:CK:68:VAL:HG13	1.99	0.43
4:CK:317:MET:HB2	4:CK:375:VAL:HG21	2.00	0.43
4:CK:318:LEU:HB3	4:CK:376:CYS:SG	2.59	0.43
4:CK:346:TRP:N	4:CK:346:TRP:CD1	2.87	0.43
4:CM:76:ASP:OD2	15:H6:222:ALA:HB3	2.18	0.43
7:Ca:372:ILE:HG23	7:Ca:445:LEU:HD11	2.00	0.43
6:D:130:GLU:HG2	6:D:274:GLY:HA3	2.00	0.43
8:D2:272:ARG:O	8:D2:276:VAL:HG23	2.18	0.43
8:D2:447:GLN:OE1	8:D2:447:GLN:N	2.38	0.43
8:D4:117:LEU:HD23	8:D4:117:LEU:HA	1.69	0.43
8:D4:174:VAL:O	8:D4:178:LYS:HG3	2.18	0.43
8:D4:377:LEU:O	8:D4:381:VAL:HG23	2.19	0.43
8:D4:392:LYS:HG3	8:D4:393:GLU:N	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:D5:384:LEU:O	8:D5:388:LEU:HD23	2.18	0.43
8:D5:423:LEU:HD23	8:D5:423:LEU:HA	1.81	0.43
8:D8:276:VAL:HG12	8:D8:280:LYS:NZ	2.33	0.43
8:D9:386:MET:HG2	8:D9:389:ARG:HH21	1.83	0.43
4:DC:229:ARG:NH2	4:DC:368:LEU:HD22	2.33	0.43
4:DC:386:GLU:HA	4:DC:389:ALA:HB3	2.00	0.43
4:DC:397:LEU:O	4:DC:401:LYS:HE2	2.18	0.43
3:DD:255:VAL:HG12	4:DE:407:TRP:CD2	2.53	0.43
4:DE:163:LYS:HA	4:DE:163:LYS:HD3	1.76	0.43
4:DE:206:ASN:HA	4:DE:209:ILE:HD12	2.00	0.43
4:DE:318:LEU:O	4:DE:375:VAL:HA	2.18	0.43
3:DF:171:PRO:HG3	3:DF:181:GLU:OE2	2.18	0.43
3:DF:318:ARG:C	3:DF:321:MET:HE1	2.43	0.43
4:DG:178:SER:OG	4:DG:180:ALA:O	2.36	0.43
3:DJ:374:ILE:HG22	3:DJ:378:PHE:CE2	2.53	0.43
4:DK:192:HIS:CE1	4:DK:193:THR:HG23	2.54	0.43
4:DK:263:PRO:HB2	4:DK:264:ARG:NH1	2.33	0.43
4:DK:265:ILE:HD12	4:DK:432:TYR:CE1	2.54	0.43
4:DK:385:ALA:HB2	4:DK:432:TYR:HD2	1.84	0.43
8:Da:81:SER:HA	8:Da:84:LEU:HD13	2.00	0.43
9:E:437:HIS:HB2	9:E:448:PHE:CE2	2.54	0.43
10:E1:43:ILE:HG13	10:E1:44:LYS:N	2.33	0.43
10:E3:112:HIS:HD1	10:E3:119:TRP:CG	2.36	0.43
10:E3:138:GLN:OE1	10:E3:138:GLN:N	2.51	0.43
4:EA:11:GLN:NE2	39:EA:501:GTP:O3A	2.52	0.43
4:EA:70:LEU:HA	4:EA:95:GLY:HA3	1.99	0.43
4:EA:185:TYR:CZ	4:EA:398:MET:HE1	2.53	0.43
4:EA:263:PRO:O	4:EA:264:ARG:HB2	2.18	0.43
3:EB:257:MET:HE3	3:EB:370:ASN:ND2	2.34	0.43
3:EB:292:GLN:O	3:EB:298:ASN:ND2	2.42	0.43
4:EC:118:VAL:O	4:EC:122:ILE:HG12	2.19	0.43
4:EC:137:ILE:HG22	4:EC:139:HIS:ND1	2.33	0.43
4:EC:262:TYR:CE1	3:ED:393:ALA:HA	2.53	0.43
4:EC:346:TRP:CH2	4:EC:435:VAL:HA	2.53	0.43
3:ED:19:LYS:HZ1	3:ED:227:HIS:HB2	1.83	0.43
3:ED:20:PHE:CE1	3:ED:233:MET:HB3	2.53	0.43
3:ED:375:GLN:HA	3:ED:378:PHE:CE1	2.53	0.43
4:EE:234:ILE:O	4:EE:237:SER:OG	2.31	0.43
4:EE:320:ARG:HD3	4:EE:360:PRO:HG3	2.01	0.43
4:EE:428:LEU:HD12	4:EE:432:TYR:CZ	2.54	0.43
3:EF:106:TYR:HB2	3:EF:401:GLU:OE2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EG:230:LEU:O	4:EG:233:GLN:HG3	2.19	0.43
4:EG:263:PRO:HB2	4:EG:264:ARG:CZ	2.48	0.43
4:EG:368:LEU:HD23	4:EG:368:LEU:H	1.83	0.43
3:EH:101:TRP:HB2	3:EH:184:ASN:ND2	2.27	0.43
3:EH:101:TRP:CE3	3:EH:187:LEU:HD13	2.54	0.43
4:EI:141:PHE:HB2	4:EI:173:PRO:HD3	1.99	0.43
4:EK:216:ASN:OD1	4:EK:217:LEU:N	2.52	0.43
3:EL:52:ASN:ND2	3:EL:62:ARG:HD3	2.33	0.43
3:EL:137:HIS:O	3:EL:168:SER:HA	2.18	0.43
11:F1:160:LEU:O	11:F1:164:LEU:HG	2.19	0.43
11:F1:218:GLU:O	11:F1:222:LEU:HG	2.19	0.43
11:F2:262:TYR:O	11:F2:266:ASN:ND2	2.52	0.43
11:F2:291:SER:OG	11:F2:295:THR:OG1	2.32	0.43
11:F2:323:HIS:O	11:F2:326:GLU:HG2	2.18	0.43
11:F3:444:LEU:O	11:F3:447:THR:OG1	2.30	0.43
11:F5:167:ASN:O	11:F5:170:MET:HG2	2.19	0.43
11:F7:244:ARG:HA	11:F7:244:ARG:HD2	1.80	0.43
11:F8:427:LEU:O	11:F8:431:LYS:HG3	2.19	0.43
11:F9:408:CYS:HB3	11:Fa:296:TRP:HH2	1.82	0.43
4:FC:12:ALA:HB1	39:FC:501:GTP:C2	2.54	0.43
4:FC:36:MET:HE3	4:FC:36:MET:HA	2.00	0.43
4:FE:53:PHE:HE1	4:FE:63:PRO:HG3	1.83	0.43
4:FE:67:PHE:HB2	4:FE:92:LEU:HD23	2.01	0.43
4:FE:122:ILE:O	4:FE:126:ALA:N	2.49	0.43
3:FF:225:LEU:HD13	3:FF:228:LEU:HD12	2.01	0.43
3:FF:313:VAL:HG23	3:FF:349:VAL:HA	1.99	0.43
4:FG:28:HIS:HB2	4:FG:30:ILE:HD11	2.00	0.43
3:FH:378:PHE:CD1	3:FH:419:VAL:HG22	2.54	0.43
3:FJ:50:TYR:HE2	3:FJ:241:ARG:HH21	1.67	0.43
3:FJ:238:THR:HA	3:FJ:241:ARG:HG2	2.01	0.43
4:FK:189:LEU:HD11	4:FK:418:PHE:CZ	2.54	0.43
11:Fa:263:ILE:HA	11:Fa:266:ASN:ND2	2.33	0.43
11:Fa:410:ASP:HB3	11:Fa:412:PRO:HD2	2.00	0.43
11:Fb:130:LEU:HA	11:Fb:133:GLN:OE1	2.18	0.43
11:Fh:392:ALA:HB1	11:Fh:420:VAL:HG22	2.01	0.43
11:Fl:259:SER:HA	11:Fl:262:TYR:CD2	2.53	0.43
11:Fl:306:HIS:O	11:Fl:310:MET:HG2	2.19	0.43
11:Fm:127:LYS:O	11:Fm:131:ILE:HG12	2.18	0.43
11:Fm:161:ASP:O	11:Fm:165:THR:HG23	2.19	0.43
11:Fm:188:LEU:HD12	11:Fm:226:GLN:HE21	1.82	0.43
11:Fm:449:SER:C	11:Fm:453:HIS:HD1	2.23	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:G:148:PHE:CD2	3:GL:33:THR:HG22	2.54	0.43
12:G:447:TYR:O	12:G:451:LEU:HD23	2.18	0.43
13:G2:320:VAL:HG21	13:G2:323:TRP:CZ2	2.54	0.43
13:G3:474:LYS:CG	13:G3:477:SER:HB2	2.45	0.43
14:G4:26:TRP:NE1	14:G4:35:LEU:HD12	2.33	0.43
14:G4:137:PRO:HA	14:G4:146:PHE:HA	1.99	0.43
14:G4:168:TYR:CD2	14:G4:191:CYS:HB2	2.53	0.43
14:G5:85:LEU:HB2	14:G5:165:PHE:CE1	2.54	0.43
14:G5:582:PHE:HA	14:G5:585:ILE:HD11	2.01	0.43
14:G5:680:ARG:HD2	14:G5:680:ARG:HA	1.68	0.43
14:G6:7:PRO:HB3	3:ML:228:LEU:HD23	1.99	0.43
4:GA:160:ASP:OD1	4:GA:161:TYR:N	2.51	0.43
4:GC:12:ALA:O	39:GC:501:GTP:N2	2.51	0.43
4:GC:61:HIS:O	4:GC:86:LEU:HD12	2.19	0.43
4:GC:67:PHE:CB	4:GC:92:LEU:HD13	2.48	0.43
3:GD:412:GLU:HA	3:GD:415:MET:HE2	1.99	0.43
3:GF:5:VAL:HB	3:GF:133:PHE:CD1	2.54	0.43
3:GF:273:LEU:H	3:GF:292:GLN:HE22	1.66	0.43
3:GF:378:PHE:HA	3:GF:381:ILE:HG12	2.00	0.43
4:GG:260:VAL:HG23	4:GG:265:ILE:O	2.18	0.43
3:GH:66:VAL:HA	3:GH:91:VAL:O	2.18	0.43
3:GH:289:LEU:HD21	3:GH:363:MET:HB3	2.00	0.43
4:GI:176:GLN:NE2	4:GI:207:GLU:OE2	2.52	0.43
4:GI:262:TYR:CE1	3:GJ:393:ALA:HA	2.54	0.43
3:GJ:234:SER:O	3:GJ:238:THR:HG23	2.18	0.43
3:GJ:415:MET:O	3:GJ:419:VAL:HG23	2.18	0.43
3:GL:188:SER:O	3:GL:192:LEU:HG	2.19	0.43
3:GL:319:GLY:N	3:GL:321:MET:HE1	2.33	0.43
3:GL:403:MET:CE	3:GL:407:GLU:HB2	2.47	0.43
15:H6:13:GLU:H	15:H6:43:LEU:HD22	1.84	0.43
4:HA:286:LEU:HD23	4:HA:286:LEU:H	1.84	0.43
4:HA:399:TYR:O	4:HA:402:ARG:HG3	2.18	0.43
3:HF:166:THR:OG1	3:HF:198:GLU:O	2.33	0.43
3:HH:6:HIS:HD2	3:HH:134:GLN:HG2	1.83	0.43
3:HH:67:ASP:HB3	3:HH:73:MET:HE1	1.99	0.43
4:HI:16:ILE:HG22	4:HI:228:ASN:OD1	2.17	0.43
4:HI:338:LYS:NZ	4:HI:339:ARG:H	2.17	0.43
4:HI:346:TRP:CD1	4:HI:346:TRP:N	2.86	0.43
3:HJ:217:LEU:O	3:HJ:219:THR:N	2.49	0.43
3:HJ:375:GLN:HA	3:HJ:378:PHE:CE1	2.53	0.43
4:HK:67:PHE:O	4:HK:93:ILE:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HL:134:GLN:HA	3:HL:165:ASN:O	2.19	0.43
16:I:195:ARG:HB2	27:Q:33:ARG:NH2	2.34	0.43
17:I1:48:TYR:CE2	17:I1:52:LEU:HG	2.54	0.43
17:I2:57:LEU:HD22	17:I2:69:PHE:CE1	2.53	0.43
3:IB:296:ALA:HA	3:IB:299:MET:CE	2.48	0.43
4:IC:102:ASN:HD22	4:IC:105:ARG:HG3	1.84	0.43
3:ID:118:ASP:HA	3:ID:121:ARG:HG2	2.00	0.43
4:IE:387:ALA:O	4:IE:391:LEU:HG	2.18	0.43
4:IG:165:SER:C	4:IG:166:LYS:HD2	2.43	0.43
4:IG:175:PRO:O	4:IG:390:ARG:HD3	2.19	0.43
4:IG:234:ILE:O	4:IG:237:SER:OG	2.29	0.43
4:IG:399:TYR:OH	4:IG:415:GLU:HB2	2.18	0.43
4:IG:412:GLY:O	4:IG:413:MET:HE2	2.18	0.43
4:II:103:TYR:HB2	4:II:186:ASN:HB2	2.00	0.43
4:II:260:VAL:O	3:IJ:397:TRP:HH2	2.02	0.43
4:IK:53:PHE:HB3	4:IK:61:HIS:HB3	2.01	0.43
4:IK:251:ASP:HB3	4:IK:254:GLU:OE1	2.17	0.43
3:IL:54:ALA:HB3	3:IL:58:LYS:HB3	2.00	0.43
3:IL:418:LEU:HA	3:IL:421:GLU:HB3	2.01	0.43
4:IM:254:GLU:OE1	4:IM:254:GLU:N	2.51	0.43
4:JA:22:GLU:O	4:JA:26:LEU:HD23	2.19	0.43
4:JA:34:GLY:O	4:JA:61:HIS:ND1	2.51	0.43
3:JB:392:LYS:HD2	3:JB:392:LYS:O	2.17	0.43
4:JC:216:ASN:OD1	4:JC:217:LEU:N	2.51	0.43
4:JC:252:LEU:HA	4:JC:255:PHE:CD2	2.54	0.43
3:JD:324:LYS:HE2	4:JE:222:PRO:CD	2.49	0.43
3:JD:337:ASN:HB2	3:JD:340:TYR:CD2	2.53	0.43
3:JF:2:ARG:HB3	3:JF:131:GLN:CD	2.43	0.43
4:JG:143:GLY:HA3	4:JG:147:SER:H	1.83	0.43
3:JJ:175:VAL:HG22	3:JJ:177:ASP:H	1.84	0.43
4:JK:2:ARG:HA	4:JK:133:GLN:NE2	2.33	0.43
4:JK:315:CYS:HG	4:JK:343:PHE:HZ	1.65	0.43
4:JK:411:GLU:OE1	4:JK:413:MET:HE2	2.19	0.43
21:K2:466:ARG:O	21:K2:468:ARG:N	2.51	0.43
21:K3:381:PRO:HB2	4:KI:160:ASP:O	2.19	0.43
21:K4:475:GLU:HG3	21:K4:479:ARG:HH22	1.84	0.43
4:KA:88:HIS:CD2	4:KA:90:GLU:HG2	2.53	0.43
4:KA:235:VAL:HA	4:KA:238:ILE:HG12	1.99	0.43
3:KB:52:ASN:ND2	3:KB:62:ARG:HD3	2.34	0.43
4:KC:145:THR:HG23	39:KC:501:GTP:O3B	2.18	0.43
4:KC:235:VAL:HA	4:KC:238:ILE:HG12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:KC:346:TRP:HZ3	3:KD:390:ARG:HB3	1.83	0.43
3:KD:216:LYS:HA	38:a:29:PHE:CE2	2.53	0.43
4:KE:32:PRO:HA	4:KE:83:TYR:CE1	2.53	0.43
3:KH:152:ILE:O	3:KH:156:ARG:HG2	2.18	0.43
3:KJ:324:LYS:HG3	4:KK:221:ARG:CZ	2.48	0.43
4:KK:245:ASP:HA	4:KK:249:ASN:HD21	1.83	0.43
3:KL:239:CYS:SG	3:KL:316:VAL:HG11	2.58	0.43
3:KL:372:THR:HG21	3:KL:426:GLN:HG3	1.99	0.43
22:L1:123:PRO:O	22:L1:136:LEU:HB3	2.18	0.43
22:L1:136:LEU:O	22:L1:137:GLU:C	2.61	0.43
22:L1:158:ILE:HD13	22:L1:161:ARG:HH11	1.83	0.43
22:L2:58:SER:O	22:L2:60:LYS:N	2.51	0.43
22:L3:105:PHE:HZ	3:LJ:424:GLN:HB3	1.80	0.43
22:L4:77:LYS:NZ	22:L4:79:ASN:OD1	2.47	0.43
3:LB:52:ASN:ND2	3:LB:62:ARG:HD3	2.33	0.43
3:LB:223:GLY:HA2	3:LB:226:ASN:OD1	2.18	0.43
4:LE:399:TYR:OH	4:LE:415:GLU:HB2	2.19	0.43
3:LF:197:ASP:HA	3:LF:264:HIS:ND1	2.33	0.43
3:LF:262:ARG:HA	3:LF:264:HIS:HE2	1.83	0.43
4:LG:182:VAL:O	4:LG:185:TYR:HB2	2.18	0.43
3:LH:66:VAL:HA	3:LH:91:VAL:O	2.18	0.43
3:LH:99:ASN:OD1	3:LH:142:GLY:HA3	2.18	0.43
3:LJ:119:VAL:HA	3:LJ:122:LYS:HE2	2.00	0.43
3:LJ:120:VAL:O	3:LJ:124:ALA:N	2.42	0.43
3:LJ:150:LEU:C	3:LJ:154:LYS:HZ3	2.27	0.43
3:LJ:284:LEU:HG	3:LJ:289:LEU:HD11	2.01	0.43
4:LK:22:GLU:O	4:LK:26:LEU:HD23	2.19	0.43
3:MB:73:MET:HE1	3:MB:92:PHE:CG	2.54	0.43
4:MC:11:GLN:HG3	39:MC:501:GTP:O1B	2.18	0.43
4:ME:70:LEU:HD23	4:ME:145:THR:HB	1.99	0.43
3:MF:130:LEU:HB2	3:MF:162:ARG:NH1	2.33	0.43
3:MF:182:PRO:HB3	3:MF:381:ILE:HD11	2.00	0.43
3:MF:277:GLY:O	3:MF:280:GLN:NE2	2.52	0.43
4:MG:207:GLU:OE1	4:MG:304:LYS:HE2	2.18	0.43
4:MG:368:LEU:HD23	4:MG:368:LEU:H	1.83	0.43
4:MI:146:GLY:N	39:MI:501:GTP:O2B	2.51	0.43
4:MI:280:LYS:HA	4:MI:280:LYS:HD2	1.76	0.43
4:MI:423:GLU:HA	4:MI:426:ALA:HB3	1.99	0.43
4:MI:430:LYS:HA	4:MI:433:GLU:HG3	2.00	0.43
4:MM:308:ARG:NH2	4:MM:312:TYR:OH	2.33	0.43
25:N:28:LEU:HD23	25:N:28:LEU:H	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:N:46:LEU:HD12	25:N:58:ILE:HD11	1.99	0.43
26:N2:164:GLY:HA2	4:VE:79:ARG:NH1	2.34	0.43
26:N3:160:LYS:HE2	4:VI:89:PRO:C	2.42	0.43
3:NB:292:GLN:HA	3:NB:295:ASP:OD2	2.19	0.43
3:ND:12:CYS:O	3:ND:15:GLN:HB2	2.19	0.43
3:ND:32:PRO:C	3:ND:83:GLN:HE21	2.25	0.43
3:NF:12:CYS:SG	3:NF:13:GLY:N	2.91	0.43
3:NF:299:MET:SD	3:NF:300:MET:N	2.92	0.43
4:NG:251:ASP:HB3	4:NG:254:GLU:OE1	2.18	0.43
4:NG:256:GLN:HE22	3:NH:397:TRP:HE1	1.66	0.43
4:NG:318:LEU:O	4:NG:375:VAL:HA	2.18	0.43
3:NH:52:ASN:ND2	3:NH:62:ARG:HD3	2.33	0.43
4:NI:18:ASN:O	4:NI:22:GLU:N	2.39	0.43
4:NI:122:ILE:O	4:NI:126:ALA:N	2.50	0.43
3:NJ:12:CYS:HB3	39:NJ:501:GTP:O4'	2.19	0.43
3:NL:330:MET:SD	3:NL:331:LEU:HD22	2.59	0.43
27:O:48:VAL:HA	27:O:51:GLN:HB2	2.00	0.43
4:OA:258:ASN:HA	3:OB:394:PHE:HE2	1.82	0.43
4:OA:306:ASP:HB3	4:OA:309:HIS:HD1	1.83	0.43
3:OB:324:LYS:HE2	4:OC:222:PRO:HG2	1.99	0.43
4:OC:12:ALA:HB1	39:OC:501:GTP:C2	2.54	0.43
4:OC:72:PRO:HA	4:OC:75:VAL:HG12	1.99	0.43
4:OC:261:PRO:HA	3:OD:394:PHE:CE1	2.53	0.43
3:OD:309:ARG:HE	3:OD:426:GLN:HE21	1.66	0.43
3:OF:343:GLU:OE1	3:OF:343:GLU:N	2.50	0.43
3:OH:58:LYS:HE2	3:PH:281:TYR:CE1	2.53	0.43
3:OH:152:ILE:HD11	3:OH:164:MET:HG2	2.00	0.43
4:OI:206:ASN:HA	4:OI:209:ILE:HD12	2.00	0.43
4:OI:329:ASN:HA	4:OI:332:ILE:HG12	2.01	0.43
3:OJ:261:PRO:HD3	4:OK:406:HIS:CG	2.53	0.43
3:OJ:393:ALA:O	3:OJ:395:LEU:HG	2.18	0.43
29:P1:213:MET:HE3	29:P1:217:ASP:HA	2.00	0.43
29:P1:285:LYS:HD3	29:P1:322:PHE:HB2	2.00	0.43
29:P1:366:GLU:OE2	29:P1:369:ARG:HB3	2.17	0.43
29:P1:510:TYR:CE1	29:P1:517:ILE:HD11	2.54	0.43
29:P2:17:GLN:HB3	29:P2:613:ARG:NH2	2.34	0.43
29:P2:477:VAL:HG12	29:P2:510:TYR:CE2	2.53	0.43
29:P3:392:ALA:HB1	29:P3:420:VAL:HG12	2.00	0.43
4:PA:143:GLY:O	4:PA:147:SER:OG	2.23	0.43
4:PA:280:LYS:O	4:PA:284:GLU:HB2	2.18	0.43
3:PB:36:TYR:CZ	3:PB:38:GLY:HA2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PB:38:GLY:H	37:YC:64:ARG:HH22	1.63	0.43
3:PD:51:TYR:CD1	3:PD:61:PRO:HA	2.53	0.43
3:PD:315:ALA:HA	3:PD:367:PHE:HA	2.00	0.43
4:PE:124:LYS:HZ3	4:PE:125:LEU:CD2	2.31	0.43
3:PF:423:GLN:O	3:PF:427:ASP:N	2.51	0.43
4:PG:255:PHE:O	4:PG:259:LEU:HB2	2.18	0.43
4:PG:286:LEU:HD11	4:PG:373:ARG:H	1.83	0.43
3:PH:173:PRO:HD3	3:PH:203:ASP:OD1	2.18	0.43
3:PH:251:ARG:O	3:PH:255:VAL:HG13	2.19	0.43
4:PI:146:GLY:N	39:PI:501:GTP:O2B	2.51	0.43
3:PJ:83:GLN:O	3:PJ:86:ARG:NH2	2.52	0.43
4:PK:329:ASN:OD1	4:PK:330:ALA:N	2.51	0.43
4:PM:386:GLU:HA	4:PM:389:ALA:HB3	2.00	0.43
30:Q3:1417:ARG:HG2	30:Q3:1419:ARG:HG2	2.01	0.43
4:QE:52:PHE:HZ	4:QE:239:THR:HB	1.84	0.43
3:QF:183:TYR:CZ	3:QF:388:MET:HG3	2.53	0.43
3:QF:272:PRO:HA	3:QF:292:GLN:OE1	2.18	0.43
4:QG:2:ARG:NH1	4:QG:241:SER:O	2.51	0.43
3:QH:73:MET:HA	3:QH:76:VAL:HG22	2.01	0.43
3:QH:323:MET:SD	3:QH:323:MET:N	2.88	0.43
4:QI:3:GLU:OE2	4:QI:130:THR:N	2.37	0.43
4:QI:10:GLY:O	4:QI:14:VAL:HG13	2.19	0.43
3:QJ:152:ILE:O	3:QJ:156:ARG:HG2	2.18	0.43
3:QJ:165:ASN:HA	3:QJ:198:GLU:HB3	1.99	0.43
3:QJ:380:ARG:O	3:QJ:384:GLN:HG2	2.19	0.43
4:QK:363:VAL:HG13	4:QK:366:GLY:HA3	1.99	0.43
4:QK:397:LEU:O	4:QK:401:LYS:HG2	2.17	0.43
3:QL:87:PRO:HA	3:QL:90:PHE:CD2	2.53	0.43
3:QL:192:LEU:O	3:QL:196:THR:HG22	2.19	0.43
4:QM:329:ASN:HA	4:QM:332:ILE:HG12	2.01	0.43
31:R3:123:MET:O	31:R3:127:ALA:N	2.41	0.43
3:RB:392:LYS:HD2	3:RB:392:LYS:O	2.19	0.43
4:RC:18:ASN:O	4:RC:22:GLU:N	2.45	0.43
4:RC:88:HIS:CE1	4:RC:121:ARG:HH22	2.37	0.43
3:RD:2:ARG:HA	3:RD:129:CYS:O	2.18	0.43
4:RE:430:LYS:O	4:RE:433:GLU:HG3	2.18	0.43
3:RF:6:HIS:HB2	3:RF:134:GLN:NE2	2.33	0.43
3:RF:306:ARG:HH22	3:RF:340:TYR:HE1	1.66	0.43
3:RH:12:CYS:HB3	39:RH:501:GTP:O4'	2.19	0.43
3:RH:350:LYS:HE3	4:RI:180:ALA:HA	2.01	0.43
3:RJ:324:LYS:HG3	4:RK:221:ARG:NH1	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:RK:84:ARG:NE	37:YP:131:ARG:HH21	2.13	0.43
4:RK:113:GLU:OE1	4:RK:113:GLU:N	2.51	0.43
4:RK:252:LEU:HA	4:RK:255:PHE:CD2	2.54	0.43
3:RL:172:SER:OG	3:RL:205:GLU:OE2	2.21	0.43
3:RL:251:ARG:HH22	4:RM:105:ARG:HE	1.66	0.43
4:RM:392:ASP:HB2	4:RM:422:ARG:NH1	2.34	0.43
3:SB:67:ASP:OD2	3:SB:72:THR:OG1	2.37	0.43
3:SD:147:MET:HB2	3:SD:151:LEU:HD23	2.00	0.43
3:SD:239:CYS:SG	3:SD:316:VAL:HG11	2.58	0.43
3:SD:249:ASP:O	3:SD:253:LEU:HG	2.18	0.43
3:SD:317:PHE:HB3	3:SD:321:MET:HE3	2.00	0.43
4:SG:265:ILE:HD12	4:SG:432:TYR:CE1	2.53	0.43
4:SI:252:LEU:HA	4:SI:255:PHE:CD2	2.54	0.43
4:SK:280:LYS:O	4:SK:284:GLU:HB2	2.19	0.43
3:TB:40:SER:HB3	3:TB:42:LEU:HD23	2.00	0.43
3:TB:271:ALA:HB1	3:TB:272:PRO:CD	2.48	0.43
4:TC:397:LEU:HD12	4:TC:398:MET:N	2.34	0.43
4:TE:3:GLU:N	4:TE:133:GLN:OE1	2.51	0.43
3:TF:217:LEU:HD11	3:TF:220:PRO:HB3	2.01	0.43
4:TG:88:HIS:HB3	4:TG:91:GLN:CG	2.48	0.43
4:TI:72:PRO:HA	4:TI:75:VAL:HG12	2.01	0.43
3:TJ:131:GLN:HB3	3:TJ:163:ILE:HD12	2.00	0.43
3:TJ:309:ARG:N	3:TJ:372:THR:OG1	2.34	0.43
4:TK:280:LYS:HD2	4:TK:280:LYS:HA	1.77	0.43
4:TK:316:CYS:N	4:TK:378:LEU:O	2.41	0.43
3:TL:134:GLN:N	3:TL:134:GLN:OE1	2.51	0.43
3:TL:147:MET:HB2	3:TL:151:LEU:HD23	2.00	0.43
3:TL:173:PRO:O	3:TL:380:ARG:NH2	2.52	0.43
3:TL:191:GLN:HB3	3:TL:195:ASN:HD21	1.84	0.43
4:TM:167:LEU:HD13	4:TM:200:CYS:HB2	2.00	0.43
33:U:236:ARG:HD2	33:U:237:ARG:N	2.33	0.43
4:UA:176:GLN:NE2	4:UA:177:VAL:HG23	2.33	0.43
4:UA:187:SER:O	4:UA:191:THR:HG23	2.17	0.43
4:UA:206:ASN:HA	4:UA:209:ILE:HD12	2.01	0.43
4:UA:251:ASP:HB3	4:UA:254:GLU:OE1	2.19	0.43
4:UA:362:VAL:HA	4:UA:368:LEU:HD21	2.01	0.43
3:UB:139:LEU:N	3:UB:168:SER:OG	2.50	0.43
3:UB:144:GLY:HA2	3:UB:147:MET:HE3	1.99	0.43
4:UC:132:LEU:O	4:UC:132:LEU:HD23	2.18	0.43
3:UD:54:ALA:HA	3:VD:283:ALA:HB2	2.00	0.43
3:UD:378:PHE:CD1	3:UD:419:VAL:HG22	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UE:187:SER:O	4:UE:191:THR:HG23	2.18	0.43
4:UE:296:PHE:CE2	4:UE:335:ILE:HG21	2.54	0.43
3:UH:40:SER:HB2	3:UH:43:GLN:CD	2.43	0.43
4:UI:6:SER:HB3	4:UI:65:ALA:HB2	2.00	0.43
4:UI:318:LEU:O	4:UI:375:VAL:HA	2.18	0.43
3:UL:309:ARG:H	3:UL:372:THR:HG1	1.55	0.43
4:VA:119:LEU:HB3	4:VA:123:ARG:NH2	2.33	0.43
3:VB:296:ALA:O	3:VB:299:MET:HE3	2.18	0.43
4:VC:208:ALA:H	4:VC:304:LYS:NZ	2.16	0.43
4:VC:263:PRO:HB2	4:VC:264:ARG:NH1	2.33	0.43
4:VE:12:ALA:HB1	39:VE:501:GTP:N3	2.33	0.43
4:VE:12:ALA:CB	39:VE:501:GTP:H5"	2.49	0.43
4:VE:34:GLY:O	4:VE:61:HIS:ND1	2.52	0.43
3:VF:46:ARG:HH22	4:VG:73:THR:HG23	1.83	0.43
3:VF:101:TRP:CE3	3:VF:187:LEU:HD13	2.54	0.43
4:VG:419:SER:O	4:VG:422:ARG:HG2	2.18	0.43
3:VH:394:PHE:HA	3:VH:397:TRP:HZ3	1.84	0.43
3:VJ:117:LEU:HB3	3:VJ:121:ARG:NH2	2.33	0.43
4:VK:263:PRO:HB2	4:VK:264:ARG:NH1	2.34	0.43
3:VL:32:PRO:C	3:VL:83:GLN:HE21	2.25	0.43
3:VL:378:PHE:O	3:VL:381:ILE:HG22	2.18	0.43
33:W:387:ASP:HA	33:W:390:ARG:HB3	2.00	0.43
3:WB:376:GLU:HA	3:WB:379:LYS:HG2	2.00	0.43
4:WC:411:GLU:OE2	4:WC:413:MET:HE1	2.19	0.43
3:WF:372:THR:HG21	3:WF:426:GLN:HB2	2.00	0.43
4:WG:273:ALA:HB2	4:WG:295:CYS:HB3	2.01	0.43
4:WG:285:GLN:NE2	4:WG:286:LEU:O	2.51	0.43
4:WG:327:ASP:OD1	4:WG:328:VAL:N	2.52	0.43
3:WH:47:ILE:HG13	3:WH:51:TYR:HB2	2.00	0.43
4:WI:47:ASP:HB3	4:WI:49:PHE:CE2	2.54	0.43
4:WI:252:LEU:HD12	4:WI:253:THR:N	2.33	0.43
4:WI:317:MET:O	4:WI:353:VAL:HA	2.18	0.43
4:WK:196:GLU:HG2	4:WK:197:HIS:ND1	2.34	0.43
3:WL:271:ALA:HB2	3:WL:365:ALA:HB3	2.00	0.43
3:WL:404:ASP:OD1	3:WL:404:ASP:N	2.51	0.43
34:XB:86:TYR:CE1	34:XB:108:TYR:HB3	2.54	0.43
34:XC:178:PRO:O	34:XC:182:LYS:N	2.40	0.43
34:XG:71:ILE:HG22	34:XG:73:LEU:H	1.83	0.43
34:XG:92:GLN:HE21	34:XG:100:ARG:HB3	1.82	0.43
35:XK:205:ILE:HD12	35:XK:205:ILE:H	1.83	0.43
36:Y:245:GLU:HA	36:Y:248:MET:HE1	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:YA:112:SER:HA	37:YA:135:GLY:HA3	2.01	0.43
37:YD:18:PHE:HA	37:YD:21:GLN:HB2	1.99	0.43
37:YE:45:SER:HB3	37:YE:48:GLN:OE1	2.18	0.43
37:YG:59:ASN:HB2	37:YG:62:HIS:ND1	2.34	0.43
37:YH:140:LEU:CD1	37:YH:141:ILE:HG13	2.47	0.43
37:YQ:159:PRO:HB2	37:YQ:161:LYS:HG2	2.01	0.43
37:YS:90:THR:HG21	37:YS:154:HIS:NE2	2.33	0.43
37:YW:9:ARG:HA	37:YW:12:GLU:HG3	2.01	0.43
37:YW:149:LYS:O	37:YW:152:ILE:HG22	2.17	0.43
1:A:23:ARG:HA	1:A:26:LEU:HD12	2.01	0.43
1:A:320:ARG:CZ	4:HA:82:THR:HG22	2.49	0.43
2:A1:117:GLU:O	2:A1:120:GLU:HG3	2.18	0.43
2:A1:221:SER:O	2:A1:225:VAL:HG23	2.19	0.43
2:A1:383:ILE:HG22	7:C2:467:TYR:HE1	1.83	0.43
2:A3:239:LYS:HB3	2:A3:239:LYS:HE3	1.81	0.43
2:A3:264:PHE:CE2	2:A3:391:MET:HE2	2.53	0.43
2:A4:169:TYR:CE2	13:G3:196:SER:HA	2.52	0.43
4:AC:316:CYS:HB3	4:AC:378:LEU:HB2	2.01	0.43
3:AD:345:ILE:HD12	3:AD:346:PRO:HD2	2.00	0.43
3:AD:379:LYS:O	3:AD:382:SER:OG	2.19	0.43
4:AE:391:LEU:HA	4:AE:394:LYS:HB2	2.00	0.43
4:AG:196:GLU:HG2	4:AG:197:HIS:ND1	2.34	0.43
3:AH:32:PRO:C	3:AH:83:GLN:HE21	2.22	0.43
3:AH:350:LYS:HE3	4:AI:180:ALA:HA	1.99	0.43
3:AJ:175:VAL:HG22	3:AJ:177:ASP:H	1.84	0.43
4:AK:31:GLN:NE2	4:AK:37:PRO:HD3	2.34	0.43
4:AK:52:PHE:HZ	4:AK:239:THR:HB	1.83	0.43
4:AK:201:ALA:HB3	4:AK:267:PHE:CE1	2.53	0.43
4:AM:386:GLU:HA	4:AM:389:ALA:HB3	2.01	0.43
4:AM:420:GLU:OE1	34:XG:109:GLN:NE2	2.51	0.43
5:B3:74:TRP:O	5:B3:77:THR:OG1	2.30	0.43
5:B4:73:ARG:HA	5:B4:76:GLU:OE2	2.18	0.43
5:B8:303:ASP:OD1	5:B8:306:ARG:NH2	2.51	0.43
3:BB:309:ARG:O	3:BB:371:SER:OG	2.26	0.43
3:BB:313:VAL:HG23	3:BB:349:VAL:HA	2.01	0.43
4:BC:90:GLU:OE1	4:BC:90:GLU:N	2.52	0.43
3:BD:6:HIS:HB2	3:BD:134:GLN:NE2	2.33	0.43
3:BD:239:CYS:SG	3:BD:316:VAL:HG11	2.58	0.43
4:BE:225:THR:O	4:BE:229:ARG:HG3	2.18	0.43
3:BJ:150:LEU:O	3:BJ:154:LYS:HE3	2.18	0.43
4:BK:263:PRO:O	4:BK:264:ARG:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BL:108:GLU:O	3:BL:112:LEU:HD23	2.18	0.43
6:C:381:ASP:HB2	6:C:384:LEU:HD22	2.00	0.43
7:C3:131:LYS:HD3	7:C4:430:THR:HG23	2.00	0.43
7:C4:284:PHE:CE1	7:C5:401:ASP:OD1	2.71	0.43
7:C6:296:VAL:HG12	7:C6:298:GLU:OE1	2.19	0.43
7:C7:164:LEU:O	7:C7:168:ILE:HG12	2.19	0.43
7:C8:222:GLU:OE2	7:C8:339:GLN:HG3	2.18	0.43
7:C8:270:LYS:NZ	7:C8:274:LEU:HB2	2.33	0.43
7:C9:173:ALA:O	7:C9:177:ILE:HG12	2.19	0.43
4:CC:88:HIS:HA	4:DA:283:HIS:HE1	1.83	0.43
4:CC:263:PRO:O	4:CC:264:ARG:HB2	2.18	0.43
4:CC:414:GLU:HG2	4:CC:417:GLU:OE1	2.19	0.43
3:CF:347:ASN:HB3	4:CG:178:SER:HB3	2.00	0.43
4:CG:115:VAL:HG21	4:CG:156:ARG:HD3	2.01	0.43
4:CG:132:LEU:O	4:CG:132:LEU:HD12	2.18	0.43
3:CH:42:LEU:HD23	3:CH:42:LEU:H	1.83	0.43
3:CJ:321:MET:N	3:CJ:321:MET:SD	2.92	0.43
4:CK:224:TYR:HE1	39:CK:501:GTP:C5	2.35	0.43
4:CK:324:VAL:HB	4:CK:326:LYS:HE2	1.99	0.43
3:CL:178:THR:HG22	3:CL:181:GLU:N	2.34	0.43
3:CL:337:ASN:HB2	3:CL:340:TYR:HD2	1.83	0.43
3:CL:376:GLU:O	3:CL:380:ARG:HG3	2.19	0.43
4:CM:186:ASN:OD1	4:CM:187:SER:N	2.51	0.43
4:CM:360:PRO:HG2	4:CM:374:ALA:HB2	2.01	0.43
7:Ca:326:GLU:OE2	7:Ca:326:GLU:N	2.36	0.43
7:Ca:347:PHE:CE1	7:Ca:351:ILE:HD11	2.53	0.43
7:Ca:365:LEU:HD13	7:Ca:455:LEU:HG	2.01	0.43
6:D:178:ILE:CG2	6:D:180:MET:HE3	2.47	0.43
6:D:222:ASN:C	6:D:224:ALA:H	2.26	0.43
8:D2:121:ILE:HD11	8:D2:211:CYS:HB2	2.01	0.43
8:D4:54:ASP:OD1	8:D4:55:GLU:N	2.51	0.43
8:D4:121:ILE:HD13	8:D4:124:LEU:HD12	2.00	0.43
8:D6:376:ARG:NH1	8:D7:99:SER:HA	2.34	0.43
8:D7:188:GLU:HA	8:D7:191:LYS:HD2	1.99	0.43
8:D7:199:ASP:O	8:D7:203:LEU:HG	2.19	0.43
8:D9:91:LEU:CD2	11:Fi:432:LEU:HD23	2.49	0.43
8:D9:112:CYS:O	8:D9:116:GLU:OE1	2.36	0.43
8:D9:309:GLN:NE2	8:D9:313:ASP:OD2	2.52	0.43
3:DB:51:TYR:CD1	3:DB:61:PRO:HA	2.54	0.43
3:DB:269:GLY:HA3	3:DB:367:PHE:HB3	2.00	0.43
3:DB:276:ARG:HB3	14:G4:272:ARG:HD3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DC:5:ILE:HD13	4:DC:64:ARG:HB3	2.01	0.43
4:DC:93:ILE:HG13	4:DC:118:VAL:HG12	2.00	0.43
39:DC:501:GTP:N3	39:DC:501:GTP:O4'	2.52	0.43
4:DE:84:ARG:HH21	15:H3:277:ARG:HG3	1.83	0.43
4:DE:362:VAL:HA	4:DE:368:LEU:HD11	2.00	0.43
4:DG:7:ILE:N	4:DG:136:LEU:O	2.41	0.43
3:DH:157:GLU:HG2	3:DH:158:GLU:N	2.33	0.43
4:DI:192:HIS:HA	4:DI:195:LEU:HD23	2.00	0.43
3:DJ:152:ILE:HA	3:DJ:155:ILE:HG12	1.99	0.43
3:DJ:289:LEU:HD22	3:DJ:363:MET:HE2	1.99	0.43
4:DK:173:PRO:HG3	4:DK:183:GLU:OE2	2.18	0.43
3:DL:378:PHE:CD1	3:DL:419:VAL:HG22	2.53	0.43
4:EA:4:CYS:SG	4:EA:134:GLY:N	2.92	0.43
3:EB:41:ASP:N	3:EB:41:ASP:OD1	2.52	0.43
3:EB:201:CYS:SG	3:EB:267:MET:HE1	2.59	0.43
4:EC:287:SER:N	4:EC:290:GLU:OE2	2.52	0.43
4:EC:318:LEU:O	4:EC:375:VAL:HA	2.18	0.43
3:ED:78:SER:HB3	13:G1:465:LYS:NZ	2.33	0.43
3:ED:240:LEU:HD22	3:ED:248:ALA:HB1	1.99	0.43
3:ED:325:GLU:HG2	3:ED:326:VAL:N	2.34	0.43
4:EE:11:GLN:HB2	4:EE:74:VAL:HG21	2.01	0.43
3:EF:16:ILE:HG12	3:EF:226:ASN:ND2	2.34	0.43
4:EG:84:ARG:HA	4:EG:87:PHE:HD2	1.83	0.43
3:EH:2:ARG:HA	3:EH:129:CYS:O	2.18	0.43
3:EH:350:LYS:HE3	4:EI:180:ALA:HA	2.00	0.43
4:EI:185:TYR:CZ	4:EI:398:MET:HE1	2.53	0.43
3:EJ:155:ILE:HA	3:EJ:158:GLU:HB2	2.01	0.43
3:EJ:347:ASN:HB3	4:EK:178:SER:HB3	2.01	0.43
4:EK:280:LYS:O	4:EK:284:GLU:HB2	2.18	0.43
11:F1:201:ARG:CZ	11:F1:206:LEU:HA	2.49	0.43
11:F1:239:GLN:OE1	11:F1:243:ASN:ND2	2.52	0.43
11:F2:399:ARG:CZ	11:F2:413:GLN:HE21	2.31	0.43
11:F8:175:ARG:HA	11:F8:178:GLU:CG	2.46	0.43
11:F8:427:LEU:C	11:F8:431:LYS:HZ3	2.27	0.43
4:FA:257:THR:HA	3:FB:397:TRP:CZ2	2.53	0.43
3:FB:363:MET:HA	3:FB:363:MET:HE2	2.01	0.43
3:FD:2:ARG:HB3	3:FD:131:GLN:NE2	2.33	0.43
4:FE:104:ALA:O	4:FE:108:TYR:N	2.50	0.43
4:FE:260:VAL:HG23	4:FE:265:ILE:O	2.18	0.43
3:FF:12:CYS:HB3	39:FF:501:GTP:H5'	2.00	0.43
4:FG:154:MET:HE1	4:FG:197:HIS:HB2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FG:327:ASP:OD1	4:FG:328:VAL:N	2.52	0.43
4:FG:352:LYS:HD2	4:FG:352:LYS:HA	1.86	0.43
4:FG:402:ARG:HB2	4:FG:405:VAL:HG11	2.01	0.43
3:FH:234:SER:O	3:FH:238:THR:HG23	2.18	0.43
3:FH:240:LEU:HD22	3:FH:248:ALA:HB1	1.99	0.43
3:FJ:206:ALA:O	3:FJ:210:ILE:HG12	2.19	0.43
3:FJ:391:ARG:C	3:FJ:392:LYS:HG3	2.43	0.43
3:FL:256:ASN:HB3	3:FL:350:LYS:HG3	1.99	0.43
3:FL:257:MET:O	3:FL:259:PRO:HD3	2.19	0.43
11:Fc:305:ARG:O	11:Fc:308:GLN:NE2	2.52	0.43
11:Fj:218:GLU:O	11:Fj:222:LEU:HG	2.18	0.43
11:Fk:470:MET:SD	11:Fk:474:LYS:HD3	2.59	0.43
11:Fl:134:MET:SD	11:Fl:304:ILE:HD11	2.59	0.43
11:Fl:353:VAL:HA	11:Fl:356:LYS:HZ3	1.84	0.43
13:G1:169:ASN:OD1	13:G1:170:ARG:N	2.47	0.43
13:G1:211:PRO:O	13:G1:215:LEU:HG	2.19	0.43
13:G1:248:ILE:HD12	13:G1:261:HIS:NE2	2.33	0.43
13:G2:352:ARG:O	13:G2:352:ARG:NH1	2.47	0.43
14:G4:361:LYS:HG3	14:G4:373:PHE:CD2	2.53	0.43
14:G4:575:LYS:HA	14:G4:575:LYS:HD2	1.67	0.43
14:G4:642:CYS:O	14:G4:645:GLU:HG3	2.18	0.43
14:G5:112:THR:HG1	14:G5:133:ARG:HE	1.66	0.43
4:GA:116:ASP:HA	4:GA:119:LEU:HD12	2.01	0.43
3:GB:117:LEU:HB3	3:GB:121:ARG:NH2	2.33	0.43
3:GB:319:GLY:O	3:GB:355:ASP:HA	2.19	0.43
4:GC:332:ILE:HD12	4:GC:335:ILE:HB	2.00	0.43
3:GF:271:ALA:HB3	3:GF:365:ALA:N	2.32	0.43
4:GG:272:TYR:CZ	4:GG:274:PRO:HG2	2.54	0.43
3:GH:32:PRO:C	3:GH:83:GLN:HE21	2.25	0.43
4:GI:36:MET:HG3	4:GI:41:THR:OG1	2.18	0.43
4:GI:90:GLU:OE1	4:GI:90:GLU:N	2.51	0.43
4:GI:386:GLU:HA	4:GI:389:ALA:HB3	2.00	0.43
3:GJ:318:ARG:HD3	3:GJ:358:PRO:HG3	2.01	0.43
4:GK:22:GLU:OE2	25:N:67:TYR:HB3	2.19	0.43
4:GK:119:LEU:HB3	4:GK:123:ARG:NH2	2.33	0.43
3:GL:91:VAL:HG11	3:GL:116:VAL:HG12	2.01	0.43
3:GL:118:ASP:OD1	3:GL:121:ARG:NH1	2.51	0.43
4:HA:203:MET:SD	4:HA:203:MET:N	2.91	0.43
4:HA:333:ALA:HA	4:HA:336:LYS:HD2	2.01	0.43
3:HB:156:ARG:NH1	3:HB:194:GLU:OE1	2.51	0.43
3:HB:318:ARG:HB3	3:HB:364:SER:OG	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HB:374:ILE:HG22	3:HB:378:PHE:CE2	2.54	0.43
4:HC:70:LEU:HA	4:HC:95:GLY:HA3	1.99	0.43
4:HC:277:SER:OG	4:HC:280:LYS:HG2	2.18	0.43
4:HC:386:GLU:O	4:HC:390:ARG:N	2.45	0.43
4:HC:405:VAL:O	4:HC:408:TYR:N	2.52	0.43
3:HD:246:LEU:HD22	3:HD:354:CYS:HA	1.99	0.43
4:HE:433:GLU:O	4:HE:437:VAL:N	2.41	0.43
3:HF:32:PRO:O	3:HF:83:GLN:NE2	2.42	0.43
4:HG:263:PRO:HB2	4:HG:264:ARG:NH1	2.34	0.43
4:HG:351:PHE:CZ	3:HH:175:VAL:HG22	2.54	0.43
3:HH:423:GLN:O	3:HH:427:ASP:N	2.45	0.43
4:HI:417:GLU:OE1	4:HI:417:GLU:N	2.39	0.43
3:HJ:4:ILE:HB	3:HJ:50:TYR:CD1	2.54	0.43
3:HJ:247:ASN:HB3	3:HJ:252:LYS:CG	2.48	0.43
4:HK:137:ILE:HG22	4:HK:139:HIS:ND1	2.33	0.43
3:HL:166:THR:OG1	3:HL:198:GLU:O	2.25	0.43
3:HL:187:LEU:HD21	3:HL:408:PHE:HD1	1.82	0.43
3:HL:306:ARG:O	3:HL:306:ARG:NE	2.41	0.43
3:HL:412:GLU:HA	3:HL:415:MET:HB3	2.00	0.43
4:IA:145:THR:OG1	39:IA:501:GTP:O1B	2.34	0.43
3:IB:4:ILE:HB	3:IB:50:TYR:CE1	2.53	0.43
3:IB:88:ASP:HB2	4:JA:280:LYS:HZ3	1.83	0.43
3:IB:317:PHE:HE2	3:IB:326:VAL:HG23	1.83	0.43
4:IC:47:ASP:HB3	4:IC:49:PHE:CE2	2.54	0.43
3:ID:31:ASP:OD1	3:ID:35:THR:N	2.51	0.43
3:ID:101:TRP:CD2	3:ID:187:LEU:HD13	2.53	0.43
3:ID:376:GLU:HA	3:ID:379:LYS:HB3	2.00	0.43
4:IG:226:ASN:ND2	4:IG:367:ASP:OD2	2.42	0.43
4:IG:251:ASP:N	4:IG:254:GLU:OE2	2.38	0.43
4:IG:286:LEU:HG	4:IG:373:ARG:HD2	2.01	0.43
4:IG:427:ALA:HA	4:IG:430:LYS:HG2	2.01	0.43
3:IH:68:LEU:HB3	3:IH:95:SER:O	2.19	0.43
4:II:387:ALA:O	4:II:391:LEU:HG	2.19	0.43
4:IK:286:LEU:HD23	4:IK:286:LEU:H	1.83	0.43
19:J1:87:ILE:O	19:J1:91:ILE:HD12	2.18	0.43
19:J1:149:TRP:O	19:J1:152:LEU:N	2.52	0.43
3:JB:91:VAL:HG11	3:JB:116:VAL:HG12	2.00	0.43
4:JC:146:GLY:N	39:JC:501:GTP:O2B	2.52	0.43
4:JC:263:PRO:HB2	4:JC:264:ARG:NH1	2.32	0.43
4:JC:386:GLU:O	4:JC:390:ARG:N	2.45	0.43
3:JD:41:ASP:N	3:JD:41:ASP:OD1	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JD:251:ARG:O	3:JD:255:VAL:HG22	2.19	0.43
4:JE:255:PHE:O	4:JE:259:LEU:HB2	2.19	0.43
4:JG:70:LEU:HB3	4:JG:97:GLU:O	2.19	0.43
3:JH:19:LYS:NZ	3:JH:223:GLY:O	2.49	0.43
3:JH:51:TYR:CD1	3:JH:61:PRO:HA	2.54	0.43
3:JH:148:GLY:O	3:JH:152:ILE:HG12	2.19	0.43
4:JI:89:PRO:HD3	4:KI:283:HIS:HE1	1.82	0.43
21:K1:380:GLY:HA3	24:M1:51:MET:HE3	2.00	0.43
21:K2:194:LYS:HZ3	21:K3:16:VAL:HA	1.82	0.43
21:K2:317:ASN:O	21:K2:321:ILE:HD12	2.18	0.43
21:K2:486:PRO:C	21:K2:488:THR:HG22	2.43	0.43
21:K4:149:GLY:O	21:K4:153:LEU:HG	2.19	0.43
21:K4:175:ASN:ND2	21:K4:202:GLU:HG3	2.34	0.43
21:K4:304:LEU:O	21:K4:308:LYS:HG2	2.19	0.43
21:K4:432:ASN:O	21:K4:435:GLU:HG3	2.18	0.43
21:K5:44:VAL:O	21:K5:45:THR:OG1	2.32	0.43
3:KB:152:ILE:HD13	3:KB:192:LEU:HD23	2.00	0.43
4:KC:6:SER:HA	4:KC:136:LEU:HB2	1.99	0.43
4:KC:165:SER:C	4:KC:166:LYS:HD2	2.43	0.43
3:KD:222:TYR:HA	3:KD:225:LEU:HD13	1.99	0.43
4:KE:172:TYR:N	4:KE:204:VAL:O	2.32	0.43
3:KF:392:LYS:HD2	3:KF:392:LYS:O	2.19	0.43
4:KG:280:LYS:HD2	4:KG:280:LYS:HA	1.73	0.43
4:KG:280:LYS:O	4:KG:284:GLU:HB2	2.18	0.43
4:KG:308:ARG:HB2	4:NG:282:TYR:OH	2.19	0.43
4:KG:408:TYR:O	4:KG:413:MET:HG3	2.18	0.43
4:KG:433:GLU:O	4:KG:437:VAL:N	2.45	0.43
3:KH:113:VAL:HB	3:KH:154:LYS:HE3	2.01	0.43
3:KH:182:PRO:HA	3:KH:381:ILE:HD11	2.01	0.43
4:KI:50:ASN:OD1	4:KI:51:THR:N	2.51	0.43
4:KI:212:ILE:HG13	4:KI:215:ARG:NH2	2.34	0.43
3:KJ:268:PRO:HD2	3:KJ:301:ALA:HB2	2.00	0.43
4:KK:320:ARG:HD3	4:KK:360:PRO:HG3	2.01	0.43
4:KK:390:ARG:HA	4:KK:393:HIS:CD2	2.54	0.43
20:L:13:GLY:HA2	20:L:16:ASN:HB2	2.00	0.43
22:L4:32:ARG:O	22:L4:36:LYS:HG3	2.19	0.43
3:LB:166:THR:OG1	3:LB:198:GLU:O	2.30	0.43
3:LB:173:PRO:HD3	3:LB:203:ASP:OD1	2.18	0.43
3:LB:180:VAL:HG13	3:LB:184:ASN:OD1	2.18	0.43
4:LC:283:HIS:H	4:LC:283:HIS:CD2	2.35	0.43
4:LI:121:ARG:O	4:LI:124:LYS:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LJ:12:CYS:SG	3:LJ:13:GLY:N	2.92	0.43
3:LJ:259:PRO:HD2	3:LJ:263:LEU:HG	2.01	0.43
4:LK:167:LEU:HB3	4:LK:169:PHE:CZ	2.53	0.43
4:LK:197:HIS:NE2	28:O3:77:ALA:HB2	2.34	0.43
4:LK:387:ALA:O	4:LK:391:LEU:HG	2.19	0.43
4:LK:397:LEU:O	4:LK:401:LYS:HG2	2.18	0.43
3:LL:11:GLN:OE1	39:LL:501:GTP:N2	2.52	0.43
3:MB:46:ARG:HD2	3:MB:241:ARG:HA	2.00	0.43
3:MB:378:PHE:O	3:MB:381:ILE:HG22	2.19	0.43
4:MC:263:PRO:HB2	4:MC:264:ARG:NH1	2.34	0.43
4:MC:265:ILE:HD11	4:MC:384:ILE:HD11	2.00	0.43
4:MC:272:TYR:HD2	4:MC:275:VAL:HG13	1.83	0.43
3:MD:6:HIS:HE1	3:MD:8:GLN:HG2	1.84	0.43
4:ME:2:ARG:NH1	4:ME:241:SER:O	2.52	0.43
3:MF:217:LEU:O	3:MF:219:THR:N	2.50	0.43
3:MF:234:SER:O	3:MF:238:THR:HG23	2.19	0.43
4:MG:244:PHE:HB2	4:MG:356:ASN:HD21	1.83	0.43
3:MH:189:VAL:HA	3:MH:192:LEU:HD12	2.00	0.43
3:MJ:324:LYS:NZ	4:MK:222:PRO:O	2.34	0.43
4:MK:265:ILE:HA	4:MK:267:PHE:CE2	2.53	0.43
4:MK:362:VAL:HA	4:MK:368:LEU:HD11	2.00	0.43
4:MM:163:LYS:HD3	4:MM:163:LYS:HA	1.74	0.43
4:MM:203:MET:HE1	4:MM:267:PHE:HB3	2.00	0.43
26:N2:73:PHE:HE1	26:N2:92:ILE:HG22	1.83	0.43
4:NC:11:GLN:O	4:NC:14:VAL:HG22	2.19	0.43
4:NE:107:HIS:CD2	4:NE:152:LEU:HB2	2.53	0.43
4:NG:208:ALA:HB3	4:NG:302:MET:HA	2.01	0.43
4:NG:367:ASP:OD1	4:NG:367:ASP:N	2.52	0.43
3:NH:211:CYS:O	3:NH:216:LYS:N	2.44	0.43
3:NH:247:ASN:HB3	3:NH:252:LYS:CG	2.48	0.43
4:NI:98:ASP:O	4:NI:105:ARG:NH2	2.32	0.43
4:NI:331:ALA:O	4:NI:334:THR:OG1	2.26	0.43
4:NI:397:LEU:O	4:NI:401:LYS:HG2	2.18	0.43
3:NJ:3:GLU:OE2	3:NJ:127:CYS:HB2	2.19	0.43
3:NJ:150:LEU:O	3:NJ:153:SER:OG	2.34	0.43
3:NJ:305:PRO:HA	3:NJ:373:ALA:HB2	2.01	0.43
4:NK:99:ALA:HB3	4:NK:144:GLY:O	2.18	0.43
4:NK:260:VAL:HG23	4:NK:265:ILE:O	2.18	0.43
28:O1:39:THR:HG22	28:O1:39:THR:O	2.18	0.43
4:OA:42:ILE:HG21	4:OA:59:GLY:HA2	2.01	0.43
3:OB:118:ASP:HA	3:OB:121:ARG:HG2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:OB:272:PRO:HA	3:OB:292:GLN:OE1	2.19	0.43
3:OB:299:MET:HE1	3:OB:305:PRO:HD2	2.01	0.43
4:OC:113:GLU:OE1	4:OC:113:GLU:N	2.52	0.43
3:OD:47:ILE:HG12	3:OD:59:TYR:CD2	2.54	0.43
3:OF:119:VAL:O	3:OF:122:LYS:HG2	2.19	0.43
4:OI:207:GLU:HB2	4:OI:304:LYS:NZ	2.31	0.43
4:OI:368:LEU:HD23	4:OI:368:LEU:H	1.83	0.43
3:OJ:330:MET:CG	3:OJ:349:VAL:HG11	2.49	0.43
3:OL:143:THR:O	3:OL:147:MET:HG3	2.18	0.43
4:PA:246:GLY:HA2	4:PA:357:TYR:CD2	2.53	0.43
4:PC:28:HIS:HB2	4:PC:30:ILE:HD12	2.01	0.43
4:PC:84:ARG:HH22	37:YC:124:HIS:C	2.27	0.43
4:PC:368:LEU:HD23	4:PC:368:LEU:H	1.84	0.43
3:PD:4:ILE:HB	3:PD:50:TYR:CE1	2.54	0.43
3:PD:113:VAL:O	3:PD:117:LEU:HD23	2.19	0.43
3:PD:183:TYR:CG	3:PD:388:MET:HE3	2.54	0.43
3:PD:385:PHE:HA	3:PD:388:MET:HE2	2.01	0.43
3:PD:391:ARG:NH1	3:PD:393:ALA:HB2	2.33	0.43
4:PE:104:ALA:O	4:PE:108:TYR:N	2.49	0.43
4:PE:174:ALA:HB1	4:PE:207:GLU:OE2	2.17	0.43
3:PF:175:VAL:HG22	3:PF:177:ASP:H	1.84	0.43
3:PH:286:VAL:HG11	3:PH:325:GLU:HB2	2.00	0.43
3:PJ:309:ARG:HH22	3:PJ:344:TRP:HZ3	1.64	0.43
4:PK:272:TYR:CE1	4:PK:374:ALA:HB1	2.53	0.43
30:Q1:1408:LYS:NZ	30:Q1:1513:ALA:HA	2.33	0.43
30:Q2:1427:LYS:HE2	30:Q2:1499:LYS:HB3	2.00	0.43
30:Q2:1449:HIS:ND1	30:Q2:1450:CYS:SG	2.75	0.43
30:Q3:1417:ARG:NE	30:Q3:1455:ARG:HD3	2.33	0.43
3:QB:52:ASN:OD1	3:QB:62:ARG:NH1	2.51	0.43
4:QC:66:VAL:HG12	4:QC:68:VAL:HG13	2.00	0.43
4:QC:324:VAL:HG21	3:QD:219:THR:HG22	2.01	0.43
3:QD:173:PRO:HD3	3:QD:203:ASP:OD1	2.17	0.43
3:QD:252:LYS:HE3	4:QE:100:ALA:HA	2.00	0.43
4:QE:331:ALA:O	4:QE:335:ILE:HG12	2.19	0.43
4:QE:389:ALA:HA	4:QE:392:ASP:OD2	2.18	0.43
3:QF:132:GLY:HA3	3:QF:163:ILE:H	1.84	0.43
4:QK:107:HIS:CD2	4:QK:152:LEU:HB2	2.54	0.43
4:QK:271:THR:HB	4:QK:377:MET:HE2	2.00	0.43
4:QK:285:GLN:NE2	4:QK:286:LEU:O	2.52	0.43
4:QK:346:TRP:CD1	4:QK:346:TRP:N	2.86	0.43
3:QL:374:ILE:HA	3:QL:377:LEU:HD13	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:QM:389:ALA:HA	4:QM:392:ASP:OD2	2.19	0.43
4:RC:271:THR:HB	4:RC:377:MET:HB3	2.01	0.43
3:RD:1:MET:HE3	3:RD:48:ASN:HB2	2.00	0.43
3:RD:324:LYS:HD3	4:RE:210:TYR:CE1	2.54	0.43
4:RE:34:GLY:HA3	4:RE:60:LYS:HD2	2.01	0.43
3:RF:165:ASN:HA	3:RF:198:GLU:HB3	2.00	0.43
4:RG:387:ALA:HA	4:RG:390:ARG:CZ	2.49	0.43
4:RI:46:ASP:HA	4:RI:50:ASN:HB3	2.00	0.43
4:RI:217:LEU:HB3	4:RI:219:ILE:HG12	2.01	0.43
4:RI:317:MET:HB2	4:RI:375:VAL:HG21	2.00	0.43
4:RM:163:LYS:HD3	4:RM:163:LYS:HA	1.74	0.43
4:RM:187:SER:O	4:RM:191:THR:HG23	2.17	0.43
3:SB:139:LEU:N	3:SB:168:SER:OG	2.52	0.43
4:SC:262:TYR:OH	3:SD:391:ARG:O	2.37	0.43
4:SE:90:GLU:HG2	4:SE:121:ARG:CZ	2.49	0.43
4:SE:321:GLY:N	4:SE:356:ASN:O	2.36	0.43
4:SG:24:TYR:O	4:SG:28:HIS:ND1	2.29	0.43
4:SG:168:GLU:HB2	4:SG:201:ALA:HA	1.99	0.43
4:SG:176:GLN:NE2	4:SG:177:VAL:HG23	2.34	0.43
4:SI:47:ASP:HB3	4:SI:49:PHE:CE2	2.53	0.43
4:SI:216:ASN:HD21	4:SI:275:VAL:HG23	1.84	0.43
3:SJ:318:ARG:HA	3:SJ:354:CYS:HB3	2.00	0.43
3:SL:58:LYS:HE2	3:TL:281:TYR:CE1	2.53	0.43
3:SL:81:PHE:O	3:SL:84:ILE:HG22	2.19	0.43
4:SM:10:GLY:O	4:SM:13:GLY:N	2.51	0.43
32:T:340:MET:CE	32:T:344:HIS:HE1	2.24	0.43
4:TC:46:ASP:OD1	4:TC:50:ASN:ND2	2.48	0.43
4:TC:70:LEU:HB2	4:TC:145:THR:HG21	2.01	0.43
4:TE:116:ASP:OD1	4:TE:116:ASP:N	2.50	0.43
4:TE:118:VAL:HA	4:TE:121:ARG:HG2	1.99	0.43
4:TE:217:LEU:HD13	4:TE:277:SER:HA	2.00	0.43
4:TE:252:LEU:HD12	4:TE:253:THR:N	2.33	0.43
3:TF:80:PRO:HB3	36:Y:139:GLN:CG	2.47	0.43
3:TH:130:LEU:HB3	3:TH:162:ARG:NH1	2.33	0.43
4:TI:2:ARG:NH2	4:TI:250:VAL:O	2.52	0.43
4:TI:160:ASP:OD1	4:TI:161:TYR:N	2.52	0.43
4:TI:161:TYR:HB3	4:TI:164:LYS:HZ3	1.83	0.43
3:TJ:52:ASN:ND2	3:TJ:62:ARG:HD3	2.34	0.43
4:TK:70:LEU:HA	4:TK:95:GLY:HA3	2.00	0.43
3:TL:61:PRO:HD3	3:TL:84:ILE:HG13	1.99	0.43
4:TM:9:VAL:HG23	4:TM:149:PHE:HD2	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UB:258:VAL:O	4:UC:407:TRP:NE1	2.37	0.43
3:UB:309:ARG:HH22	3:UB:344:TRP:HZ3	1.67	0.43
4:UC:36:MET:HG3	4:UC:41:THR:OG1	2.17	0.43
4:UC:317:MET:HE1	4:UC:351:PHE:HB3	2.01	0.43
3:UF:4:ILE:HB	3:UF:50:TYR:CE1	2.54	0.43
4:UG:138:PHE:CD1	4:UG:169:PHE:HB2	2.54	0.43
4:UG:210:TYR:OH	4:UG:221:ARG:NH2	2.50	0.43
3:UH:173:PRO:HD3	3:UH:203:ASP:OD1	2.18	0.43
4:UI:35:GLN:HG2	4:UI:59:GLY:O	2.18	0.43
4:UI:145:THR:OG1	39:UI:501:GTP:O1B	2.34	0.43
4:UI:260:VAL:HG23	4:UI:265:ILE:O	2.18	0.43
4:UK:12:ALA:HB1	39:UK:501:GTP:C4	2.53	0.43
3:VB:7:LEU:HD13	3:VB:64:VAL:HB	2.00	0.43
3:VB:163:ILE:HD13	3:VB:250:LEU:HB2	1.99	0.43
3:VB:398:TYR:O	3:VB:403:MET:N	2.51	0.43
4:VC:102:ASN:ND2	4:VC:411:GLU:OE2	2.50	0.43
3:VD:4:ILE:HB	3:VD:50:TYR:HE1	1.84	0.43
3:VD:309:ARG:NE	3:VD:426:GLN:HE21	2.01	0.43
3:VD:378:PHE:HA	3:VD:381:ILE:HG22	2.00	0.43
4:VE:10:GLY:HA2	4:VE:145:THR:OG1	2.18	0.43
3:VF:141:GLY:HA3	39:VF:501:GTP:O2A	2.18	0.43
4:VG:263:PRO:HB2	4:VG:264:ARG:NH1	2.34	0.43
4:VI:210:TYR:OH	4:VI:221:ARG:NH2	2.51	0.43
4:VI:318:LEU:O	4:VI:375:VAL:HA	2.18	0.43
4:VK:174:ALA:HB3	4:VK:177:VAL:O	2.19	0.43
4:WA:15:GLN:HG2	4:WA:16:ILE:N	2.34	0.43
4:WA:272:TYR:CZ	4:WA:274:PRO:HG2	2.53	0.43
4:WA:317:MET:HB3	4:WA:377:MET:HE1	1.99	0.43
3:WB:3:GLU:OE2	3:WB:128:ASP:N	2.48	0.43
3:WB:92:PHE:CD1	35:XH:74:LYS:HD3	2.54	0.43
3:WB:318:ARG:HA	3:WB:354:CYS:HB3	2.00	0.43
4:WC:319:TYR:HB2	4:WC:355:ILE:HD13	2.01	0.43
4:WE:22:GLU:HG2	4:WE:83:TYR:CE2	2.54	0.43
4:WE:262:TYR:CE1	3:WF:393:ALA:HA	2.54	0.43
4:WG:213:CYS:O	4:WG:218:ASP:N	2.51	0.43
4:WG:316:CYS:N	4:WG:378:LEU:O	2.45	0.43
4:WG:387:ALA:O	4:WG:391:LEU:HG	2.18	0.43
3:WH:375:GLN:HB3	3:WH:379:LYS:HE2	1.99	0.43
4:WK:269:LEU:HD11	4:WK:384:ILE:HG21	2.00	0.43
3:WL:69:GLU:CD	3:WL:71:GLY:H	2.27	0.43
3:WL:263:LEU:HD12	3:WL:370:ASN:HD21	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:XA:87:PHE:CD1	34:XA:160:CYS:HB3	2.52	0.43
34:XB:90:GLU:HB3	34:XB:104:ARG:HD3	2.00	0.43
34:XC:173:SER:OG	34:XC:176:GLU:OE1	2.31	0.43
34:XE:59:ILE:CG2	34:XE:156:ILE:HB	2.49	0.43
34:XF:1:MET:HG3	34:XF:68:THR:O	2.19	0.43
34:XF:102:ARG:CZ	34:XF:118:ILE:HB	2.48	0.43
34:XG:87:PHE:HB2	34:XG:159:ASN:O	2.18	0.43
35:XK:90:HIS:CD2	35:XK:129:VAL:HG22	2.54	0.43
35:XK:100:LEU:HD12	35:XK:115:ILE:HD13	2.00	0.43
36:Y:161:GLU:O	36:Y:165:GLN:HG3	2.19	0.43
37:YC:50:GLN:O	37:YC:53:MET:HG3	2.19	0.43
37:YD:108:ASN:HB3	37:YD:110:LEU:HD13	2.01	0.43
37:YL:48:GLN:HG3	37:YL:52:TYR:CE2	2.53	0.43
37:YT:5:LYS:O	37:YT:9:ARG:HG3	2.19	0.43
37:YT:97:LEU:HG	37:YT:101:LYS:HE2	2.00	0.43
37:YV:140:LEU:CD1	37:YV:141:ILE:HG13	2.48	0.43
36:Z:309:ASP:O	36:Z:312:THR:OG1	2.37	0.43
2:A1:105:TYR:HB2	2:A1:147:MET:HE1	2.01	0.43
2:A1:213:SER:OG	2:A1:216:ASP:OD2	2.28	0.43
2:A3:299:LEU:O	2:A3:303:ILE:HG12	2.19	0.43
3:AB:282:ARG:HE	3:AB:284:LEU:HD13	1.83	0.43
4:AC:12:ALA:HB2	39:AC:501:GTP:H5"	2.01	0.43
4:AC:36:MET:HG3	4:AC:41:THR:OG1	2.19	0.43
4:AC:226:ASN:O	4:AC:230:LEU:HG	2.18	0.43
3:AD:173:PRO:HB3	3:AD:380:ARG:CZ	2.49	0.43
3:AD:286:VAL:HG21	3:AD:325:GLU:HG3	2.00	0.43
3:AD:309:ARG:N	3:AD:372:THR:OG1	2.32	0.43
3:AF:5:VAL:HB	3:AF:133:PHE:CE1	2.54	0.43
3:AF:149:THR:HA	3:AF:152:ILE:HG12	2.01	0.43
3:AF:174:LYS:HG3	3:AF:175:VAL:HG12	2.00	0.43
3:AF:192:LEU:O	3:AF:196:THR:HG22	2.18	0.43
4:AG:118:VAL:O	4:AG:122:ILE:HG12	2.19	0.43
4:AI:10:GLY:O	4:AI:14:VAL:HG13	2.18	0.43
4:AI:260:VAL:O	3:AJ:397:TRP:HH2	2.01	0.43
3:AJ:111:GLU:OE1	3:AJ:111:GLU:N	2.47	0.43
4:AK:36:MET:HG3	4:AK:41:THR:OG1	2.18	0.43
3:AL:21:TRP:CZ2	3:AL:63:ALA:HB2	2.53	0.43
4:AM:6:SER:HA	4:AM:136:LEU:HB2	2.00	0.43
4:AM:172:TYR:CD1	4:AM:173:PRO:HD2	2.53	0.43
4:AM:430:LYS:HD2	34:XG:102:ARG:NH1	2.33	0.43
5:B2:183:LEU:HD22	5:B2:187:ARG:NH2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B5:13:ARG:NH1	5:B6:130:ARG:HG2	2.33	0.43
5:B6:74:TRP:O	5:B6:77:THR:OG1	2.27	0.43
5:B7:139:LYS:HE3	5:B7:257:GLN:HE22	1.83	0.43
5:B8:55:TRP:CZ3	7:C1:115:HIS:HB3	2.54	0.43
3:BB:144:GLY:HA2	3:BB:147:MET:HG2	2.01	0.43
3:BB:150:LEU:C	3:BB:154:LYS:HZ3	2.26	0.43
3:BB:239:CYS:SG	3:BB:316:VAL:HG11	2.58	0.43
4:BC:269:LEU:HD11	4:BC:384:ILE:HG21	2.01	0.43
3:BD:286:VAL:HG21	3:BD:325:GLU:HG3	2.00	0.43
4:BE:21:TRP:CE3	4:BE:24:TYR:HD2	2.37	0.43
4:BE:187:SER:OG	4:BE:188:ILE:HD12	2.19	0.43
4:BG:145:THR:OG1	39:BG:501:GTP:O1B	2.37	0.43
4:BG:296:PHE:CE1	4:BG:377:MET:HE2	2.53	0.43
3:BH:217:LEU:O	3:BH:219:THR:N	2.50	0.43
3:BJ:313:VAL:HG23	3:BJ:349:VAL:HA	2.01	0.43
4:BK:12:ALA:HB1	39:BK:501:GTP:C2	2.54	0.43
4:BK:386:GLU:HA	4:BK:389:ALA:HB3	2.00	0.43
4:BM:163:LYS:HA	4:BM:163:LYS:HD3	1.77	0.43
4:BM:201:ALA:H	4:BM:266:HIS:HD2	1.67	0.43
4:BM:390:ARG:HA	4:BM:393:HIS:CD2	2.54	0.43
6:C:120:ASP:CB	6:C:221:ARG:HB3	2.49	0.43
7:C1:127:LEU:HD11	7:C2:437:ARG:NH1	2.33	0.43
7:C2:100:TYR:O	7:C2:104:LEU:HG	2.19	0.43
7:C3:366:THR:O	7:C3:369:LEU:HG	2.18	0.43
7:C4:357:ALA:C	7:C4:462:LYS:HZ2	2.26	0.43
7:C5:379:ILE:HA	7:C5:382:ILE:HG12	2.01	0.43
7:C7:155:PHE:O	7:C7:158:SER:OG	2.29	0.43
7:C7:222:GLU:CD	7:C7:339:GLN:HB3	2.44	0.43
7:C7:447:SER:HA	10:E1:145:ARG:NH1	2.33	0.43
7:C8:214:GLU:HA	7:C8:217:LYS:HD2	2.00	0.43
7:C9:356:ASP:O	7:C9:360:LYS:HG3	2.18	0.43
3:CB:39:ASP:OD1	3:CB:39:ASP:N	2.50	0.43
4:CC:84:ARG:HA	4:CC:87:PHE:CD2	2.53	0.43
4:CC:184:PRO:HB2	4:CC:395:PHE:HD1	1.84	0.43
4:CC:422:ARG:O	4:CC:426:ALA:N	2.43	0.43
4:CG:11:GLN:HG3	39:CG:501:GTP:PB	2.58	0.43
4:CG:49:PHE:O	4:CG:53:PHE:N	2.52	0.43
3:CH:3:GLU:OE2	3:CH:128:ASP:N	2.52	0.43
3:CH:11:GLN:HE21	39:CH:501:GTP:H3'	1.84	0.43
4:CI:34:GLY:HA2	4:CI:86:LEU:HD11	2.00	0.43
4:CI:61:HIS:O	4:CI:86:LEU:HD12	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CJ:206:ALA:O	3:CJ:210:ILE:HG12	2.18	0.43
4:CK:260:VAL:HG23	4:CK:265:ILE:O	2.18	0.43
3:CL:276:ARG:CZ	14:G6:326:GLY:HA3	2.49	0.43
7:Ca:231:GLU:HG3	7:Ca:235:GLN:NE2	2.29	0.43
7:Cb:134:GLN:NE2	7:Cb:135:ILE:HG13	2.34	0.43
7:Cb:162:HIS:O	7:Cb:166:GLU:OE1	2.37	0.43
6:D:142:LEU:HA	6:D:180:MET:HE1	2.01	0.43
6:D:166:ASN:OD1	6:D:169:ILE:HD12	2.19	0.43
6:D:278:ILE:O	6:D:281:ARG:HG2	2.18	0.43
8:D2:399:GLU:OE1	8:D2:403:ARG:NH2	2.51	0.43
8:D5:421:ASN:O	8:D5:425:ILE:HG13	2.19	0.43
8:D7:76:ARG:NH1	8:D7:77:GLN:HB2	2.33	0.43
8:D7:106:ARG:O	8:D7:110:MET:HG2	2.18	0.43
8:D8:317:LYS:HG2	8:D8:321:HIS:NE2	2.34	0.43
8:D9:320:TYR:HA	8:D9:323:ARG:NH2	2.33	0.43
4:DC:1:MET:SD	4:DC:2:ARG:N	2.91	0.43
3:DD:304:ASP:O	3:DD:307:HIS:ND1	2.51	0.43
3:DF:32:PRO:C	3:DF:83:GLN:HE21	2.24	0.43
4:DG:88:HIS:CE1	4:DG:90:GLU:HG2	2.53	0.43
4:DG:325:PRO:HA	4:DG:328:VAL:HB	1.99	0.43
4:DG:332:ILE:HG13	4:DG:336:LYS:NZ	2.34	0.43
3:DH:9:ALA:HB3	3:DH:137:HIS:HB3	2.00	0.43
3:DH:55:THR:O	3:DH:58:LYS:HE2	2.19	0.43
3:DH:152:ILE:O	3:DH:156:ARG:HG2	2.19	0.43
3:DH:207:LEU:HA	3:DH:210:ILE:HG12	2.01	0.43
3:DL:378:PHE:HZ	3:DL:422:TYR:HD2	1.67	0.43
10:E3:44:LYS:HE2	10:E3:44:LYS:HB2	1.74	0.43
4:EA:59:GLY:HA3	14:G4:712:TYR:OH	2.18	0.43
4:EA:71:GLU:OE1	4:EA:71:GLU:N	2.52	0.43
4:EA:431:ASP:HA	4:EA:434:GLU:OE1	2.18	0.43
4:EC:88:HIS:HE1	4:EC:90:GLU:CD	2.25	0.43
3:ED:101:TRP:CE3	3:ED:187:LEU:HD13	2.53	0.43
3:ED:197:ASP:OD1	3:ED:198:GLU:N	2.51	0.43
3:ED:350:LYS:NZ	4:EE:181:VAL:HG22	2.33	0.43
4:EE:176:GLN:NE2	4:EE:177:VAL:HG23	2.33	0.43
4:EE:287:SER:N	4:EE:290:GLU:OE2	2.51	0.43
4:EE:318:LEU:O	4:EE:375:VAL:HA	2.18	0.43
3:EH:32:PRO:C	3:EH:83:GLN:HE21	2.22	0.43
3:EH:350:LYS:NZ	4:EI:181:VAL:HG13	2.34	0.43
4:EI:144:GLY:HA3	39:EI:501:GTP:O3G	2.18	0.43
4:EI:251:ASP:HB3	4:EI:254:GLU:OE1	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EI:419:SER:O	4:EI:422:ARG:HG2	2.19	0.43
4:EK:73:THR:O	4:EK:77:GLU:HG3	2.18	0.43
4:EK:161:TYR:O	4:EK:166:LYS:NZ	2.38	0.43
3:EL:392:LYS:HB3	3:EL:395:LEU:CD2	2.46	0.43
11:F2:376:MET:HA	11:F2:379:GLU:HG3	2.00	0.43
11:F3:473:ARG:O	11:F3:473:ARG:HG2	2.19	0.43
11:F4:112:TRP:O	11:F4:115:ARG:HG3	2.18	0.43
11:F7:163:LEU:O	11:F7:166:GLU:HG2	2.19	0.43
11:F7:181:ALA:HB2	11:F7:229:MET:HE1	2.00	0.43
11:F7:196:TYR:O	11:F7:200:LYS:HG3	2.18	0.43
11:F7:277:ILE:HA	11:F8:394:THR:HG21	2.01	0.43
11:F7:301:ASN:O	11:F7:305:ARG:HG2	2.19	0.43
4:FA:329:ASN:OD1	4:FA:330:ALA:N	2.51	0.43
4:FA:332:ILE:O	4:FA:336:LYS:HG3	2.19	0.43
4:FA:389:ALA:HA	4:FA:392:ASP:OD2	2.18	0.43
3:FB:251:ARG:O	3:FB:255:VAL:HG22	2.19	0.43
4:FC:150:ALA:O	4:FC:154:MET:HG3	2.18	0.43
4:FC:265:ILE:HA	4:FC:267:PHE:CE2	2.54	0.43
4:FC:368:LEU:HD23	4:FC:368:LEU:H	1.83	0.43
4:FE:187:SER:O	4:FE:190:THR:OG1	2.31	0.43
4:FE:326:LYS:NZ	3:FF:211:CYS:HB3	2.33	0.43
3:FF:206:ALA:O	3:FF:210:ILE:HG12	2.19	0.43
3:FH:51:TYR:CD1	3:FH:61:PRO:HA	2.53	0.43
4:FI:246:GLY:HA3	4:FI:355:ILE:O	2.19	0.43
4:FI:345:ASP:N	4:FI:345:ASP:OD1	2.49	0.43
3:FL:65:LEU:HD21	3:FL:73:MET:HG2	2.01	0.43
11:Fa:340:ASN:OD1	11:Fa:341:LEU:N	2.51	0.43
11:Fb:129:GLN:O	11:Fb:133:GLN:OE1	2.36	0.43
11:Fe:156:LEU:HB2	11:Fe:257:LYS:HZ2	1.81	0.43
11:Fg:248:HIS:HB3	11:Fg:252:ARG:HH21	1.84	0.43
11:Fi:177:LEU:HG	11:Fi:229:MET:SD	2.58	0.43
11:Fi:305:ARG:HA	11:Fi:308:GLN:HE21	1.84	0.43
11:Fj:205:ASP:N	11:Fj:205:ASP:OD1	2.51	0.43
11:Fj:460:ASN:O	11:Fj:464:ILE:HG12	2.17	0.43
11:Fk:240:ILE:HD12	11:Fk:243:ASN:HB2	2.00	0.43
11:Fl:119:ASP:O	11:Fl:123:ILE:N	2.43	0.43
11:Fl:292:ILE:HB	11:Fl:293:PRO:HD3	2.00	0.43
12:G:201:PHE:CE2	3:GJ:362:LYS:HG3	2.54	0.43
13:G3:419:VAL:HG12	13:G3:443:PHE:CD1	2.54	0.43
13:G3:429:PRO:HG2	13:G3:430:ILE:HD12	2.01	0.43
14:G4:577:VAL:N	14:G4:733:VAL:O	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G5:418:PHE:HB2	14:G5:422:MET:HE3	2.01	0.43
14:G5:560:ARG:HA	14:G5:560:ARG:HD2	1.89	0.43
14:G6:573:HIS:ND1	14:G6:573:HIS:O	2.50	0.43
4:GA:422:ARG:CZ	4:GA:422:ARG:HB3	2.48	0.43
3:GB:391:ARG:C	3:GB:392:LYS:HG3	2.43	0.43
4:GC:152:LEU:HD12	4:GC:153:LEU:N	2.34	0.43
4:GE:1:MET:N	4:GE:130:THR:OG1	2.52	0.43
4:GE:83:TYR:HB3	4:GE:86:LEU:HD12	2.00	0.43
4:GE:352:LYS:HA	4:GE:352:LYS:HD3	1.83	0.43
3:GF:345:ILE:HD12	3:GF:346:PRO:HD2	2.01	0.43
4:GG:368:LEU:HD23	4:GG:368:LEU:H	1.84	0.43
4:GI:136:LEU:HB3	4:GI:138:PHE:HE2	1.84	0.43
3:GJ:2:ARG:NH2	4:GK:96:LYS:HB3	2.34	0.43
3:GJ:189:VAL:HA	3:GJ:192:LEU:HB2	2.01	0.43
4:GK:115:VAL:HG22	4:GK:119:LEU:HG	2.01	0.43
3:GL:6:HIS:HB3	3:GL:21:TRP:HZ2	1.82	0.43
3:GL:133:PHE:O	3:GL:165:ASN:N	2.51	0.43
3:GL:164:MET:N	3:GL:197:ASP:OD2	2.45	0.43
15:H1:41:GLN:HA	15:H1:44:THR:HB	2.00	0.43
15:H2:26:GLN:O	15:H2:42:LEU:HG	2.19	0.43
15:H3:9:LEU:HG	15:H3:10:PHE:H	1.84	0.43
15:H3:292:MET:SD	15:H3:293:GLN:NE2	2.92	0.43
15:H4:38:THR:OG1	15:H4:39:THR:N	2.51	0.43
3:HB:133:PHE:CE1	3:HB:164:MET:HA	2.54	0.43
4:HC:1:MET:C	4:HC:2:ARG:HD3	2.43	0.43
4:HC:207:GLU:HB2	4:HC:304:LYS:HE2	2.00	0.43
3:HD:271:ALA:HB2	3:HD:365:ALA:HB3	2.00	0.43
4:HE:426:ALA:O	4:HE:430:LYS:HD3	2.19	0.43
4:HE:431:ASP:HA	4:HE:434:GLU:OE1	2.18	0.43
3:HF:12:CYS:O	3:HF:16:ILE:N	2.41	0.43
4:HG:235:VAL:HA	4:HG:238:ILE:HG12	2.00	0.43
3:HH:5:VAL:HG23	3:HH:130:LEU:HD21	2.00	0.43
4:HI:139:HIS:O	4:HI:170:ALA:HA	2.18	0.43
4:HI:296:PHE:CE2	4:HI:335:ILE:HG21	2.54	0.43
3:HJ:72:THR:O	3:HJ:75:SER:OG	2.32	0.43
3:HJ:306:ARG:O	3:HJ:306:ARG:NE	2.45	0.43
3:HJ:345:ILE:HD12	3:HJ:346:PRO:HD2	2.01	0.43
4:IA:320:ARG:HD3	4:IA:360:PRO:HG3	2.01	0.43
4:IA:385:ALA:HB2	4:IA:432:TYR:CD2	2.54	0.43
3:IB:323:MET:HE2	4:IC:224:TYR:CD1	2.53	0.43
3:ID:32:PRO:C	3:ID:83:GLN:HE21	2.22	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ID:105:HIS:ND1	3:ID:149:THR:OG1	2.51	0.43
4:IE:51:THR:HG23	4:IE:52:PHE:HD2	1.83	0.43
4:IE:132:LEU:O	4:IE:132:LEU:HD12	2.19	0.43
4:IE:165:SER:C	4:IE:166:LYS:HD2	2.44	0.43
3:IF:165:ASN:HA	3:IF:198:GLU:HB3	1.99	0.43
4:IG:213:CYS:SG	4:IG:222:PRO:HG3	2.58	0.43
4:IG:346:TRP:N	4:IG:346:TRP:CD1	2.87	0.43
4:IG:346:TRP:NE1	4:IG:438:ASP:OD1	2.51	0.43
3:IH:32:PRO:O	3:IH:84:ILE:HD11	2.19	0.43
3:IH:87:PRO:HA	3:IH:90:PHE:CD2	2.54	0.43
4:II:108:TYR:O	4:II:112:LYS:NZ	2.30	0.43
3:IJ:186:THR:HG23	3:IJ:385:PHE:CE1	2.54	0.43
3:IJ:304:ASP:O	3:IJ:307:HIS:ND1	2.51	0.43
4:IK:77:GLU:O	4:IK:80:THR:OG1	2.33	0.43
4:IK:208:ALA:N	4:IK:304:LYS:HZ1	2.12	0.43
3:IL:46:ARG:HH22	4:IM:73:THR:HA	1.83	0.43
4:IM:5:ILE:O	4:IM:136:LEU:N	2.42	0.43
18:J:59:MET:SD	18:J:62:HIS:HB2	2.58	0.43
18:J:81:TYR:O	18:J:85:ILE:N	2.46	0.43
18:J:101:ASP:O	18:J:106:ARG:N	2.39	0.43
4:JA:99:ALA:HB3	4:JA:144:GLY:O	2.18	0.43
3:JF:257:MET:O	3:JF:259:PRO:HD3	2.19	0.43
3:JH:324:LYS:HD3	4:JI:210:TYR:CE1	2.53	0.43
4:JK:213:CYS:O	4:JK:218:ASP:N	2.51	0.43
3:JL:87:PRO:HA	3:JL:90:PHE:CD2	2.53	0.43
3:JL:267:MET:HA	3:JL:268:PRO:HD3	1.90	0.43
21:K4:245:VAL:O	21:K4:249:ASN:N	2.52	0.43
21:K4:425:HIS:HA	21:K4:428:HIS:HD1	1.84	0.43
3:KB:35:THR:HG22	3:KB:58:LYS:NZ	2.33	0.43
3:KB:392:LYS:HD2	3:KB:392:LYS:O	2.18	0.43
4:KC:262:TYR:HE1	3:KD:393:ALA:HA	1.84	0.43
4:KG:54:SER:N	4:KG:62:VAL:O	2.51	0.43
3:KH:289:LEU:O	3:KH:293:MET:N	2.49	0.43
3:KH:407:GLU:HA	3:KH:410:GLU:OE2	2.18	0.43
4:KI:319:TYR:N	4:KI:354:GLY:O	2.50	0.43
3:KJ:299:MET:SD	3:KJ:300:MET:N	2.92	0.43
4:KK:316:CYS:N	4:KK:378:LEU:O	2.43	0.43
3:KL:54:ALA:HB3	3:KL:58:LYS:HG3	2.01	0.43
3:KL:183:TYR:N	3:KL:388:MET:HE1	2.33	0.43
22:L4:72:LEU:C	22:L4:74:PRO:HD3	2.44	0.43
4:LA:279:GLU:O	4:LA:282:TYR:HB3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:LA:287:SER:N	4:LA:290:GLU:OE2	2.51	0.43
4:LA:346:TRP:CD1	4:LA:346:TRP:N	2.87	0.43
3:LD:374:ILE:HG23	3:LD:377:LEU:HD12	2.00	0.43
4:LE:22:GLU:HG2	4:LE:83:TYR:CE2	2.48	0.43
4:LE:35:GLN:HG2	4:LE:59:GLY:O	2.19	0.43
4:LE:88:HIS:CD2	4:LE:121:ARG:HH22	2.37	0.43
3:LF:246:LEU:HD22	3:LF:354:CYS:HA	2.00	0.43
3:LH:152:ILE:HD12	3:LH:195:ASN:HB2	2.00	0.43
3:LH:234:SER:O	3:LH:238:THR:HG23	2.18	0.43
4:LI:208:ALA:HB2	4:LI:304:LYS:HE3	1.99	0.43
3:LJ:292:GLN:HA	3:LJ:295:ASP:OD2	2.19	0.43
4:LK:47:ASP:HB3	4:LK:49:PHE:CE2	2.53	0.43
4:LK:53:PHE:HE1	4:LK:63:PRO:HG3	1.84	0.43
4:LK:175:PRO:O	4:LK:390:ARG:HD3	2.19	0.43
4:LK:386:GLU:O	4:LK:390:ARG:N	2.44	0.43
3:LL:378:PHE:CD1	3:LL:419:VAL:HG22	2.53	0.43
23:M:106:LYS:HG3	23:M:107:VAL:HG13	1.99	0.43
24:M2:77:CYS:HB2	24:M2:79:ILE:CD1	2.49	0.43
4:MC:260:VAL:O	3:MD:397:TRP:HH2	2.01	0.43
3:MD:83:GLN:O	3:MD:86:ARG:NH2	2.51	0.43
3:MD:182:PRO:O	3:MD:385:PHE:HZ	2.02	0.43
3:MD:386:THR:O	3:MD:390:ARG:HB2	2.19	0.43
4:ME:260:VAL:O	3:MF:397:TRP:HH2	2.01	0.43
3:MF:361:LEU:HA	27:P:242:GLU:CD	2.44	0.43
4:MG:11:GLN:HG3	39:MG:501:GTP:O1B	2.18	0.43
4:MG:201:ALA:HB3	4:MG:267:PHE:HD1	1.82	0.43
4:MG:262:TYR:OH	3:MH:391:ARG:O	2.34	0.43
4:MG:291:ILE:HD11	4:MG:319:TYR:HE2	1.84	0.43
3:MH:3:GLU:HG2	3:MH:130:LEU:HD23	2.01	0.43
3:MH:91:VAL:HG11	3:MH:116:VAL:HG12	2.01	0.43
3:MH:226:ASN:HA	3:MH:229:VAL:HG22	2.00	0.43
4:MI:88:HIS:CE1	4:MI:90:GLU:HG2	2.54	0.43
3:MJ:304:ASP:O	3:MJ:307:HIS:ND1	2.48	0.43
4:MK:31:GLN:OE1	4:MK:31:GLN:N	2.52	0.43
4:MK:145:THR:HG23	39:MK:501:GTP:O3B	2.18	0.43
4:MM:54:SER:N	4:MM:62:VAL:O	2.50	0.43
4:MM:316:CYS:O	4:MM:378:LEU:N	2.37	0.43
4:NA:136:LEU:HG	4:NA:169:PHE:CE1	2.54	0.43
3:NB:87:PRO:HA	3:NB:90:PHE:CD2	2.53	0.43
4:NC:11:GLN:HB2	4:NC:74:VAL:HG21	2.00	0.43
4:NC:70:LEU:HB2	4:NC:145:THR:HG21	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:NE:427:ALA:HA	4:NE:430:LYS:HG2	2.01	0.43
3:NF:313:VAL:HG23	3:NF:349:VAL:HA	2.01	0.43
4:NG:213:CYS:O	4:NG:219:ILE:N	2.36	0.43
3:NH:28:HIS:O	3:NH:43:GLN:NE2	2.52	0.43
3:NH:148:GLY:O	3:NH:152:ILE:HG23	2.19	0.43
3:NH:313:VAL:HG23	3:NH:349:VAL:HA	2.01	0.43
4:NI:176:GLN:NE2	4:NI:207:GLU:OE2	2.52	0.43
3:NJ:391:ARG:C	3:NJ:392:LYS:HG3	2.44	0.43
4:NK:125:LEU:HD13	4:NK:128:LEU:HD21	2.01	0.43
4:NK:235:VAL:O	4:NK:239:THR:OG1	2.34	0.43
3:NL:423:GLN:O	3:NL:427:ASP:N	2.52	0.43
28:O3:81:LEU:HD22	28:O3:116:LYS:O	2.18	0.43
4:OE:5:ILE:HD11	4:OE:129:CYS:SG	2.59	0.43
3:OF:318:ARG:HA	3:OF:354:CYS:HB3	2.00	0.43
4:OG:3:GLU:N	4:OG:133:GLN:OE1	2.52	0.43
4:OG:175:PRO:O	4:OG:390:ARG:HD3	2.17	0.43
4:OG:352:LYS:HZ2	3:OH:178:THR:HA	1.83	0.43
4:OG:368:LEU:HD23	4:OG:368:LEU:H	1.83	0.43
4:OI:53:PHE:HD1	4:OI:63:PRO:HA	1.83	0.43
4:OI:115:VAL:O	4:OI:119:LEU:HG	2.19	0.43
29:P2:17:GLN:CD	29:P2:615:LYS:HB2	2.43	0.43
29:P2:170:ARG:NH2	29:P2:173:MET:HE3	2.32	0.43
3:PB:28:HIS:O	3:PB:43:GLN:NE2	2.51	0.43
4:PC:165:SER:C	4:PC:166:LYS:HD2	2.43	0.43
4:PC:230:LEU:O	4:PC:234:ILE:HG12	2.19	0.43
4:PE:141:PHE:HE2	4:PE:203:MET:HG3	1.84	0.43
4:PE:392:ASP:O	4:PE:396:ASP:N	2.39	0.43
4:PG:51:THR:HG23	4:PG:52:PHE:HB2	1.99	0.43
3:PH:289:LEU:O	3:PH:293:MET:N	2.48	0.43
4:PI:16:ILE:HD11	4:PI:138:PHE:HB3	2.01	0.43
3:PJ:32:PRO:HA	3:PJ:81:PHE:CE1	2.54	0.43
4:PK:252:LEU:HD12	4:PK:253:THR:N	2.34	0.43
4:PM:117:LEU:O	4:PM:121:ARG:HG2	2.19	0.43
4:PM:321:GLY:HA3	4:PM:372:GLN:O	2.19	0.43
30:Q3:1425:LYS:HE3	30:Q3:1509:ASP:O	2.19	0.43
3:QB:19:LYS:NZ	3:QB:223:GLY:O	2.49	0.43
3:QD:118:ASP:HA	3:QD:121:ARG:HG2	2.01	0.43
3:QD:131:GLN:O	3:QD:251:ARG:NH2	2.51	0.43
4:QE:3:GLU:CD	4:QE:132:LEU:H	2.26	0.43
4:QE:28:HIS:HB2	4:QE:30:ILE:HG12	2.01	0.43
4:QE:196:GLU:HG2	4:QE:197:HIS:ND1	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:QE:333:ALA:HA	4:QE:336:LYS:HD2	2.01	0.43
4:QG:34:GLY:O	4:QG:61:HIS:ND1	2.51	0.43
4:QG:262:TYR:CE1	3:QH:393:ALA:HA	2.54	0.43
3:QH:20:PHE:CZ	3:QH:24:ILE:HD11	2.53	0.43
4:QI:259:LEU:HD21	4:QI:316:CYS:HB2	2.00	0.43
4:QI:321:GLY:HA3	4:QI:372:GLN:O	2.18	0.43
3:QJ:172:SER:OG	3:QJ:174:LYS:HG2	2.19	0.43
3:QJ:246:LEU:HB3	3:QJ:353:VAL:O	2.19	0.43
4:QK:149:PHE:O	4:QK:153:LEU:HD23	2.19	0.43
4:QM:104:ALA:HA	4:QM:107:HIS:HB3	2.00	0.43
4:QM:316:CYS:N	4:QM:378:LEU:O	2.39	0.43
27:R:210:CYS:O	27:R:214:LYS:HG2	2.19	0.43
3:RB:8:GLN:NE2	3:RB:17:GLY:HA3	2.34	0.43
3:RB:270:PHE:CG	3:RB:271:ALA:N	2.85	0.43
4:RC:34:GLY:O	4:RC:61:HIS:ND1	2.51	0.43
4:RC:210:TYR:HE1	4:RC:227:LEU:HD21	1.84	0.43
3:RD:3:GLU:OE2	3:RD:129:CYS:N	2.51	0.43
3:RD:12:CYS:HB3	39:RD:501:GTP:H5'	2.01	0.43
3:RD:269:GLY:HA3	3:RD:367:PHE:HB3	2.00	0.43
4:RE:69:ASP:OD1	4:RE:70:LEU:N	2.51	0.43
3:RF:19:LYS:NZ	3:RF:223:GLY:O	2.51	0.43
3:RF:41:ASP:O	3:RF:45:GLU:N	2.49	0.43
3:RF:192:LEU:O	3:RF:196:THR:HG22	2.19	0.43
3:RF:350:LYS:HE3	4:RG:180:ALA:HA	2.00	0.43
4:RG:205:ASP:OD2	4:RG:304:LYS:NZ	2.31	0.43
3:RH:139:LEU:N	3:RH:168:SER:OG	2.51	0.43
3:RH:188:SER:O	3:RH:192:LEU:HG	2.19	0.43
3:RH:247:ASN:CG	3:RH:252:LYS:HE3	2.44	0.43
3:RH:292:GLN:HA	3:RH:295:ASP:OD2	2.19	0.43
4:RI:329:ASN:OD1	4:RI:330:ALA:N	2.52	0.43
3:RJ:28:HIS:O	3:RJ:43:GLN:NE2	2.51	0.43
3:RJ:291:GLN:NE2	3:RJ:295:ASP:OD1	2.52	0.43
4:RK:70:LEU:HA	4:RK:95:GLY:HA3	2.00	0.43
4:RK:224:TYR:CE2	39:RK:501:GTP:O6	2.67	0.43
4:RM:22:GLU:HG2	4:RM:83:TYR:CE2	2.53	0.43
4:RM:331:ALA:O	4:RM:335:ILE:HG12	2.19	0.43
3:SB:249:ASP:HB3	3:SB:252:LYS:HG3	1.99	0.43
3:SB:292:GLN:O	3:SB:298:ASN:ND2	2.48	0.43
3:SB:306:ARG:O	3:SB:306:ARG:NE	2.46	0.43
3:SD:41:ASP:OD1	3:SD:41:ASP:N	2.52	0.43
3:SD:103:LYS:O	3:SD:108:GLU:N	2.37	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:SE:389:ALA:HA	4:SE:392:ASP:OD2	2.18	0.43
3:SF:48:ASN:HA	3:SF:51:TYR:O	2.18	0.43
3:SF:152:ILE:HD12	3:SF:195:ASN:HB2	2.01	0.43
3:SF:216:LYS:HB3	3:SF:276:ARG:NH2	2.34	0.43
3:SF:311:LEU:O	3:SF:345:ILE:HG21	2.18	0.43
4:SG:208:ALA:H	4:SG:304:LYS:HZ1	1.64	0.43
4:SG:220:GLU:OE1	4:SG:220:GLU:N	2.46	0.43
3:SH:39:ASP:OD1	3:SH:39:ASP:N	2.50	0.43
4:SI:141:PHE:HB2	4:SI:173:PRO:HD3	2.01	0.43
3:SJ:348:ASN:OD1	3:SJ:348:ASN:N	2.51	0.43
4:SK:135:PHE:HE2	4:SK:166:LYS:HE3	1.84	0.43
4:SK:163:LYS:HA	4:SK:163:LYS:HD3	1.78	0.43
4:SK:201:ALA:HB1	4:SK:203:MET:HE3	2.00	0.43
4:SK:226:ASN:HD22	4:SK:226:ASN:C	2.25	0.43
4:SK:397:LEU:O	4:SK:401:LYS:HG2	2.17	0.43
3:TB:286:VAL:HG21	3:TB:325:GLU:HG3	2.00	0.43
3:TD:40:SER:HB2	3:TD:43:GLN:CD	2.44	0.43
3:TD:130:LEU:HB2	3:TD:162:ARG:HH11	1.82	0.43
4:TE:113:GLU:OE1	4:TE:113:GLU:N	2.51	0.43
3:TF:419:VAL:O	3:TF:423:GLN:NE2	2.51	0.43
3:TJ:311:LEU:HB2	3:TJ:370:ASN:O	2.19	0.43
4:TM:23:LEU:HD11	4:TM:229:ARG:HA	2.00	0.43
4:TM:176:GLN:NE2	4:TM:207:GLU:OE2	2.51	0.43
3:TN:2:ARG:HA	3:TN:129:CYS:O	2.19	0.43
3:UD:271:ALA:HB2	3:UD:365:ALA:HB3	2.00	0.43
4:UE:1:MET:N	4:UE:130:THR:OG1	2.49	0.43
4:UE:105:ARG:O	4:UE:109:THR:OG1	2.24	0.43
4:UE:397:LEU:O	4:UE:401:LYS:HE2	2.18	0.43
4:UG:208:ALA:HA	4:UG:211:ASP:HB2	2.01	0.43
3:UH:66:VAL:HA	3:UH:91:VAL:O	2.18	0.43
4:UI:7:ILE:HB	4:UI:137:ILE:HG13	2.01	0.43
4:UK:12:ALA:HB1	39:UK:501:GTP:N3	2.34	0.43
3:VF:347:ASN:HB3	4:VG:178:SER:HB3	2.00	0.43
4:VG:116:ASP:N	4:VG:116:ASP:OD1	2.49	0.43
4:VG:263:PRO:O	4:VG:264:ARG:HB2	2.18	0.43
4:VG:280:LYS:O	4:VG:284:GLU:HB2	2.18	0.43
4:VG:318:LEU:HD13	4:VG:354:GLY:HA3	2.01	0.43
3:VH:173:PRO:HD2	3:VH:205:GLU:CD	2.44	0.43
3:VH:324:LYS:HD3	4:VI:210:TYR:HE1	1.82	0.43
4:VI:169:PHE:CE2	4:VI:202:PHE:HD2	2.37	0.43
4:VI:171:ILE:HD12	4:VI:204:VAL:HG23	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:VK:196:GLU:HG2	4:VK:197:HIS:ND1	2.34	0.43
3:VL:318:ARG:HD3	3:VL:358:PRO:HG3	2.01	0.43
33:W:216:GLN:HB3	33:W:219:LYS:NZ	2.33	0.43
3:WB:16:ILE:HD13	3:WB:226:ASN:HD22	1.84	0.43
4:WE:186:ASN:HA	4:WE:189:LEU:HD12	2.00	0.43
4:WG:36:MET:HE3	4:WG:61:HIS:CE1	2.54	0.43
4:WG:288:VAL:O	4:WG:292:THR:OG1	2.32	0.43
3:WH:152:ILE:O	3:WH:156:ARG:HG2	2.18	0.43
3:WJ:139:LEU:N	3:WJ:168:SER:OG	2.52	0.43
3:WJ:282:ARG:HE	3:WJ:288:GLU:CD	2.26	0.43
4:WK:55:GLU:HA	4:WK:60:LYS:O	2.19	0.43
4:WK:405:VAL:O	4:WK:409:VAL:HG22	2.18	0.43
3:WL:256:ASN:HB3	3:WL:350:LYS:HG3	1.99	0.43
34:XC:33:HIS:CE1	34:XC:50:GLU:HB2	2.54	0.43
34:XC:88:THR:HG21	34:XC:104:ARG:HH21	1.84	0.43
34:XC:94:LEU:HD11	34:XC:98:ASN:HA	2.00	0.43
34:XF:71:ILE:O	34:XF:151:THR:HG23	2.19	0.43
34:XF:90:GLU:HA	34:XF:103:PHE:O	2.18	0.43
35:XK:124:ASN:C	35:XK:125:LYS:HD3	2.44	0.43
35:XM:69:LEU:HA	35:XM:79:ALA:H	1.84	0.43
36:Y:159:MET:SD	36:Z:483:TYR:OH	2.73	0.43
37:YA:4:VAL:HG13	37:YA:79:LEU:HG	2.00	0.43
37:YD:14:LYS:HD2	37:YD:72:ILE:HD13	2.01	0.43
37:YF:72:ILE:HA	37:YF:75:GLU:CD	2.44	0.43
37:YL:125:LEU:HD13	37:YL:134:TYR:HB3	2.01	0.43
37:YN:45:SER:HB3	37:YN:48:GLN:OE1	2.19	0.43
36:Z:304:MET:SD	36:Z:308:LYS:HB3	2.59	0.43
36:Z:316:MET:HA	36:Z:319:ARG:HD3	2.01	0.43
1:A:77:GLU:O	1:A:80:LYS:HG2	2.19	0.43
1:A:282:GLY:HA2	1:A:285:MET:HB2	2.00	0.43
2:A2:383:ILE:HG22	7:C3:467:TYR:HE1	1.84	0.43
2:A3:326:VAL:O	2:A3:326:VAL:HG13	2.18	0.43
3:AB:414:ASN:O	3:AB:418:LEU:HG	2.19	0.43
3:AD:101:TRP:CE3	3:AD:187:LEU:HD13	2.54	0.43
3:AF:151:LEU:HD22	3:AF:154:LYS:HZ1	1.84	0.43
4:AG:304:LYS:H	4:AG:304:LYS:HD2	1.83	0.43
4:AG:318:LEU:O	4:AG:375:VAL:HA	2.19	0.43
4:AI:70:LEU:HB3	4:AI:97:GLU:O	2.19	0.43
4:AI:362:VAL:HA	4:AI:368:LEU:HD11	2.01	0.43
3:AJ:272:PRO:HA	3:AJ:292:GLN:OE1	2.19	0.43
3:AJ:289:LEU:HD21	3:AJ:363:MET:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AM:265:ILE:HA	4:AM:267:PHE:CE2	2.54	0.43
4:AM:298:PRO:HG2	26:N4:73:PHE:CE1	2.53	0.43
5:B3:77:THR:O	5:B3:80:LYS:HG2	2.19	0.43
5:B7:202:LYS:HB2	5:B8:315:HIS:CD2	2.53	0.43
5:B7:324:ARG:HD2	5:B7:329:LEU:HA	2.00	0.43
4:BC:107:HIS:CD2	4:BC:152:LEU:HB2	2.53	0.43
4:BC:130:THR:HA	14:G4:314:ARG:NH1	2.33	0.43
4:BC:263:PRO:HB2	4:BC:264:ARG:NH1	2.34	0.43
4:BC:346:TRP:N	4:BC:346:TRP:CD1	2.86	0.43
3:BD:206:ALA:O	3:BD:210:ILE:HG12	2.18	0.43
3:BD:246:LEU:HB3	3:BD:353:VAL:O	2.19	0.43
3:BD:371:SER:OG	3:BD:372:THR:N	2.52	0.43
4:BE:12:ALA:CB	39:BE:501:GTP:H5"	2.47	0.43
4:BE:79:ARG:NH2	15:H2:20:TYR:HA	2.34	0.43
3:BF:77:ARG:O	3:BF:82:GLY:HA3	2.18	0.43
3:BF:130:LEU:H	3:BF:162:ARG:NH1	2.17	0.43
3:BF:182:PRO:HB3	3:BF:381:ILE:HD11	2.00	0.43
3:BH:8:GLN:NE2	3:BH:17:GLY:HA3	2.34	0.43
3:BH:305:PRO:HB2	3:BH:310:TYR:HE1	1.82	0.43
4:BK:139:HIS:CD2	4:BK:170:ALA:HB2	2.53	0.43
3:BL:217:LEU:O	3:BL:219:THR:N	2.50	0.43
3:BL:224:ASP:O	3:BL:228:LEU:HG	2.19	0.43
4:BM:182:VAL:O	4:BM:185:TYR:HB2	2.18	0.43
4:BM:224:TYR:HE2	39:BM:501:GTP:O6	2.01	0.43
7:C3:201:HIS:ND1	7:C3:472:LYS:HG3	2.34	0.43
7:C3:202:ARG:NH2	7:C3:469:ASP:O	2.51	0.43
7:C3:471:GLU:HG2	7:C3:472:LYS:N	2.33	0.43
7:C4:120:LEU:O	7:C4:124:THR:HG23	2.19	0.43
7:C4:244:LEU:HD23	7:C4:244:LEU:HA	1.88	0.43
7:C7:361:ILE:CD1	7:C7:462:LYS:HZ1	2.13	0.43
7:C8:198:CYS:SG	7:C8:472:LYS:NZ	2.83	0.43
7:C9:453:ALA:O	7:C9:456:GLU:HG3	2.19	0.43
3:CB:121:ARG:O	3:CB:124:ALA:N	2.51	0.43
3:CB:284:LEU:HA	3:CB:288:GLU:OE2	2.17	0.43
3:CB:324:LYS:HE3	3:CB:324:LYS:HB3	1.88	0.43
4:CC:161:TYR:HB3	4:CC:164:LYS:NZ	2.34	0.43
3:CD:305:PRO:HA	3:CD:373:ALA:HB2	2.01	0.43
4:CE:154:MET:HE2	4:CE:194:THR:HG22	2.00	0.43
4:CE:406:HIS:HA	4:CE:409:VAL:HG22	1.99	0.43
3:CF:3:GLU:OE2	3:CF:127:CYS:HB3	2.18	0.43
4:CG:119:LEU:HD23	4:CG:122:ILE:HD11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CG:175:PRO:O	4:CG:390:ARG:HD3	2.19	0.43
4:CI:136:LEU:HB3	4:CI:138:PHE:CE2	2.53	0.43
4:CI:384:ILE:HB	4:CI:388:TRP:HZ3	1.84	0.43
3:CJ:12:CYS:HB3	39:CJ:501:GTP:H5'	2.01	0.43
4:CK:201:ALA:N	4:CK:266:HIS:HD2	2.17	0.43
4:CK:259:LEU:HD12	4:CK:260:VAL:N	2.33	0.43
4:CK:286:LEU:HG	4:CK:373:ARG:HD2	2.00	0.43
4:CM:70:LEU:HB3	4:CM:97:GLU:O	2.19	0.43
4:CM:185:TYR:O	4:CM:189:LEU:HG	2.18	0.43
7:Cb:172:ASN:O	7:Cb:175:THR:OG1	2.32	0.43
7:Cc:222:GLU:OE2	7:Cc:339:GLN:HB3	2.19	0.43
7:Cd:279:GLU:O	7:Cd:281:VAL:N	2.44	0.43
6:D:144:MET:HB2	6:D:290:ILE:O	2.18	0.43
6:D:190:GLU:O	6:D:194:LEU:N	2.34	0.43
6:D:211:ILE:HD12	6:D:211:ILE:H	1.82	0.43
8:D1:71:ARG:HH12	8:D2:325:THR:HA	1.82	0.43
8:D2:429:LYS:O	8:D2:433:HIS:ND1	2.31	0.43
8:D3:220:GLU:O	8:D3:224:ILE:HG13	2.18	0.43
8:D4:267:ARG:HA	8:D4:270:ARG:NE	2.28	0.43
8:D7:287:ARG:NH1	8:D7:291:GLU:OE2	2.31	0.43
8:D8:137:ARG:HD2	8:D8:447:GLN:HA	2.00	0.43
8:D8:394:LYS:HA	8:D8:397:ASP:OD2	2.18	0.43
4:DA:423:GLU:O	4:DA:427:ALA:N	2.44	0.43
3:DB:378:PHE:CD1	3:DB:419:VAL:HG22	2.54	0.43
4:DC:22:GLU:O	4:DC:26:LEU:HD23	2.18	0.43
4:DC:68:VAL:HG12	4:DC:93:ILE:HB	2.00	0.43
3:DD:39:ASP:OD1	3:DD:39:ASP:N	2.50	0.43
3:DD:324:LYS:HE2	4:DE:222:PRO:CD	2.49	0.43
4:DE:67:PHE:O	4:DE:93:ILE:N	2.51	0.43
4:DE:235:VAL:HA	4:DE:238:ILE:HG12	2.01	0.43
4:DE:251:ASP:HB3	4:DE:254:GLU:OE1	2.19	0.43
4:DG:308:ARG:NH2	4:DG:340:THR:O	2.52	0.43
4:DG:346:TRP:HE1	3:DH:391:ARG:HH11	1.67	0.43
4:DI:165:SER:C	4:DI:166:LYS:HD2	2.44	0.43
4:DK:201:ALA:H	4:DK:266:HIS:HD2	1.65	0.43
3:DL:176:SER:O	3:DL:178:THR:N	2.52	0.43
3:DL:305:PRO:HB2	3:DL:310:TYR:CE1	2.42	0.43
4:EA:161:TYR:HB3	4:EA:164:LYS:NZ	2.34	0.43
4:EA:213:CYS:O	4:EA:218:ASP:N	2.52	0.43
4:EA:280:LYS:O	4:EA:284:GLU:HB2	2.19	0.43
4:EA:411:GLU:OE2	4:EA:413:MET:HE1	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EB:40:SER:HB3	3:EB:42:LEU:HD23	1.99	0.43
3:EB:344:TRP:NE1	3:EB:425:TYR:O	2.51	0.43
3:EB:382:SER:HB3	3:EB:415:MET:HE1	2.00	0.43
4:EC:255:PHE:O	4:EC:259:LEU:HB2	2.19	0.43
4:EC:287:SER:OG	4:EC:290:GLU:OE1	2.31	0.43
3:ED:247:ASN:ND2	39:EE:501:GTP:O3G	2.52	0.43
4:EE:386:GLU:HA	4:EE:389:ALA:HB3	2.01	0.43
3:EF:324:LYS:HE2	4:EG:222:PRO:CD	2.48	0.43
4:EI:172:TYR:N	4:EI:204:VAL:O	2.40	0.43
3:EJ:345:ILE:HD12	3:EJ:346:PRO:HD2	2.00	0.43
3:EJ:357:PRO:HB3	3:EJ:362:LYS:O	2.17	0.43
4:EK:40:LYS:H	13:G3:421:ARG:HH12	1.67	0.43
9:F:283:SER:HB2	4:II:372:GLN:HE22	1.83	0.43
11:F1:244:ARG:HH21	11:F1:247:GLN:HB2	1.82	0.43
11:F1:252:ARG:O	11:F1:256:ASP:HB2	2.19	0.43
11:F2:124:MET:SD	11:F2:125:GLN:N	2.92	0.43
11:F2:188:LEU:HD21	11:F2:223:LYS:HE3	2.00	0.43
11:F2:201:ARG:NH1	11:F2:207:VAL:H	2.16	0.43
11:F4:181:ALA:HA	11:F4:184:VAL:HG12	2.01	0.43
11:F5:174:LYS:HD2	11:F5:175:ARG:HH22	1.83	0.43
11:F5:299:PHE:HE1	11:Fk:417:VAL:HG11	1.84	0.43
11:F6:292:ILE:H	11:F6:295:THR:HG1	1.66	0.43
11:F6:402:ARG:HB2	11:F6:407:LEU:HD22	2.00	0.43
11:F7:327:THR:O	11:F7:331:GLN:HG2	2.18	0.43
3:FB:28:HIS:O	3:FB:43:GLN:NE2	2.51	0.43
3:FB:266:PHE:CD1	3:FB:370:ASN:HB2	2.53	0.43
4:FC:192:HIS:CE1	4:FC:193:THR:HG23	2.54	0.43
4:FC:256:GLN:O	4:FC:260:VAL:HG12	2.19	0.43
3:FD:133:PHE:CE1	3:FD:164:MET:HA	2.54	0.43
3:FD:280:GLN:CB	13:G1:430:ILE:HG13	2.49	0.43
4:FG:213:CYS:O	4:FG:218:ASP:N	2.52	0.43
4:FG:235:VAL:HA	4:FG:238:ILE:HG12	2.01	0.43
3:FH:276:ARG:HD3	13:G2:462:ILE:N	2.34	0.43
3:FH:325:GLU:O	3:FH:329:GLN:OE1	2.37	0.43
3:FJ:211:CYS:O	3:FJ:216:LYS:N	2.41	0.43
4:FK:260:VAL:O	3:FL:397:TRP:HH2	2.01	0.43
11:Fb:205:ASP:N	11:Fb:205:ASP:OD1	2.51	0.43
11:Fb:304:ILE:HG13	11:Fb:308:GLN:NE2	2.34	0.43
11:Fb:390:LYS:C	11:Fc:277:ILE:HD11	2.44	0.43
11:Fh:420:VAL:O	11:Fh:423:ILE:HG12	2.18	0.43
11:Fj:432:LEU:HA	11:Fj:435:ARG:HG2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Fk:144:GLN:HG3	11:Fk:145:ARG:N	2.33	0.43
11:Fk:212:GLU:HA	11:Fk:215:LEU:HB3	2.00	0.43
11:Fk:421:PHE:O	11:Fk:425:ASP:N	2.41	0.43
11:Fl:160:LEU:HD23	11:Fl:164:LEU:HD23	2.01	0.43
12:G:43:SER:C	12:G:47:TYR:CE2	2.97	0.43
12:G:163:GLU:HB2	12:H:491:LEU:HD11	2.01	0.43
12:G:173:GLU:O	12:G:176:VAL:HB	2.19	0.43
12:G:219:GLU:OE2	12:G:223:GLN:NE2	2.52	0.43
12:G:387:LYS:NZ	12:G:391:ASN:OD1	2.52	0.43
13:G1:453:GLU:O	13:G1:464:GLY:N	2.48	0.43
14:G4:546:GLU:OE1	14:G4:546:GLU:N	2.50	0.43
14:G4:733:VAL:HG22	14:G4:734:ARG:H	1.84	0.43
14:G5:622:ARG:HG3	14:G5:626:LYS:HZ3	1.84	0.43
14:G5:715:GLU:H	14:G5:720:VAL:CG2	2.31	0.43
14:G6:622:ARG:NH1	14:G6:626:LYS:HB2	2.33	0.43
4:GA:235:VAL:HA	4:GA:238:ILE:HG12	2.00	0.43
3:GB:12:CYS:HB3	39:GB:501:GTP:H5'	2.01	0.43
3:GB:355:ASP:O	3:GB:357:PRO:HD3	2.18	0.43
4:GC:119:LEU:HA	4:GC:122:ILE:HG12	2.01	0.43
4:GC:375:VAL:HG13	4:GC:377:MET:SD	2.59	0.43
3:GD:41:ASP:N	3:GD:41:ASP:OD1	2.50	0.43
3:GF:415:MET:O	3:GF:418:LEU:HG	2.19	0.43
3:GH:234:SER:O	3:GH:238:THR:HG23	2.18	0.43
4:GI:175:PRO:O	4:GI:390:ARG:HD3	2.19	0.43
3:GJ:36:TYR:CE2	3:GJ:38:GLY:HA2	2.54	0.43
3:GJ:77:ARG:HA	3:GJ:77:ARG:HD2	1.88	0.43
4:GK:208:ALA:N	4:GK:304:LYS:HZ1	2.16	0.43
4:GK:389:ALA:O	4:GK:393:HIS:HD2	2.01	0.43
4:HC:73:THR:O	4:HC:77:GLU:HG2	2.18	0.43
3:HF:41:ASP:N	3:HF:41:ASP:OD1	2.52	0.43
4:HG:433:GLU:O	4:HG:437:VAL:HG23	2.19	0.43
4:HI:196:GLU:HG2	4:HI:197:HIS:ND1	2.33	0.43
3:HJ:117:LEU:HB3	3:HJ:121:ARG:NH2	2.33	0.43
3:HJ:314:ALA:HB3	3:HJ:368:ILE:HG23	2.00	0.43
3:HL:341:PHE:HD1	3:HL:348:ASN:HD21	1.66	0.43
4:IA:28:HIS:HB2	4:IA:30:ILE:CD1	2.49	0.43
4:IA:252:LEU:HA	4:IA:255:PHE:CD2	2.53	0.43
3:IB:28:HIS:O	3:IB:43:GLN:NE2	2.51	0.43
3:IB:139:LEU:HD21	3:IB:170:VAL:HG22	2.01	0.43
3:IB:199:THR:HB	3:IB:265:PHE:HA	2.00	0.43
3:IB:258:VAL:HB	4:IC:407:TRP:HZ2	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IB:317:PHE:CE2	3:IB:326:VAL:HG23	2.54	0.43
4:IC:45:GLY:HA2	4:IC:49:PHE:HE1	1.84	0.43
4:IC:115:VAL:O	4:IC:119:LEU:N	2.37	0.43
4:IC:397:LEU:O	4:IC:401:LYS:HG2	2.18	0.43
3:ID:101:TRP:CZ3	3:ID:187:LEU:HD22	2.54	0.43
3:ID:272:PRO:HA	3:ID:292:GLN:OE1	2.18	0.43
4:IE:331:ALA:O	4:IE:334:THR:OG1	2.23	0.43
4:II:137:ILE:HG22	4:II:139:HIS:ND1	2.34	0.43
4:II:263:PRO:HB2	4:II:264:ARG:NH1	2.33	0.43
3:IJ:249:ASP:O	3:IJ:252:LYS:HB3	2.19	0.43
3:IJ:323:MET:HE2	4:IK:224:TYR:CD1	2.54	0.43
4:IK:104:ALA:O	4:IK:108:TYR:N	2.51	0.43
4:IK:187:SER:O	4:IK:190:THR:OG1	2.26	0.43
19:J1:132:HIS:HA	19:J1:135:THR:OG1	2.18	0.43
19:J3:31:SER:O	19:J3:104:HIS:HA	2.19	0.43
4:JA:139:HIS:CD2	4:JA:170:ALA:HB2	2.53	0.43
4:JA:182:VAL:O	4:JA:185:TYR:HB2	2.19	0.43
4:JC:262:TYR:CE1	3:JD:393:ALA:HA	2.53	0.43
3:JD:78:SER:CB	38:a:42:ARG:HE	2.31	0.43
4:JE:66:VAL:HG12	4:JE:68:VAL:HG13	1.99	0.43
4:JE:287:SER:N	4:JE:290:GLU:OE2	2.52	0.43
3:JF:324:LYS:HD3	4:JG:210:TYR:CE1	2.53	0.43
4:JG:53:PHE:HE1	4:JG:63:PRO:HG3	1.84	0.43
4:JG:201:ALA:H	4:JG:266:HIS:HD2	1.66	0.43
4:JI:89:PRO:CD	4:KI:280:LYS:HZ3	2.26	0.43
4:JI:226:ASN:O	4:JI:230:LEU:HG	2.18	0.43
3:JJ:46:ARG:HH22	4:JK:73:THR:HG23	1.82	0.43
3:JJ:320:ARG:NH1	3:JJ:355:ASP:HB2	2.34	0.43
4:JK:140:SER:HA	4:JK:170:ALA:HB1	2.00	0.43
4:JK:208:ALA:H	4:JK:304:LYS:NZ	2.14	0.43
4:JK:251:ASP:HB3	4:JK:254:GLU:OE1	2.18	0.43
3:JL:391:ARG:C	3:JL:392:LYS:HG3	2.44	0.43
21:K1:366:LYS:HA	21:K1:369:GLN:OE1	2.19	0.43
21:K2:410:PRO:O	21:K2:414:ARG:HG2	2.19	0.43
21:K3:366:LYS:HA	21:K3:369:GLN:OE1	2.18	0.43
21:K3:486:PRO:C	21:K3:488:THR:HG22	2.43	0.43
21:K4:181:LEU:HB3	21:K4:460:VAL:HG22	2.01	0.43
4:KA:53:PHE:HB3	4:KA:61:HIS:HB3	2.01	0.43
4:KC:329:ASN:HA	4:KC:332:ILE:HG12	1.99	0.43
3:KD:41:ASP:O	3:KD:44:LEU:HB3	2.19	0.43
3:KD:277:GLY:O	3:KD:280:GLN:NE2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:KE:394:LYS:O	4:KE:398:MET:HG2	2.19	0.43
4:KG:145:THR:HG1	39:KG:501:GTP:PB	2.42	0.43
3:KH:213:ARG:O	3:KH:216:LYS:HE2	2.19	0.43
3:KH:325:GLU:O	3:KH:329:GLN:HG2	2.19	0.43
4:KI:274:PRO:HG3	4:KI:374:ALA:HA	2.01	0.43
4:KI:280:LYS:O	4:KI:284:GLU:HB2	2.19	0.43
3:KJ:60:VAL:HG23	3:KJ:86:ARG:HH11	1.84	0.43
3:KL:87:PRO:HA	3:KL:90:PHE:CD2	2.54	0.43
3:KL:138:SER:HB2	3:KL:169:VAL:HG12	2.01	0.43
20:L:50:ILE:HG23	20:L:51:LEU:HG	2.00	0.43
20:L:170:ARG:HD3	20:L:181:LEU:C	2.43	0.43
22:L1:190:ASP:O	22:L1:193:ARG:HG2	2.19	0.43
4:LA:209:ILE:HG23	4:LA:230:LEU:HD21	2.01	0.43
4:LA:213:CYS:O	4:LA:218:ASP:N	2.51	0.43
4:LC:85:GLN:OE1	4:LC:85:GLN:N	2.37	0.43
4:LC:113:GLU:OE1	4:LC:113:GLU:N	2.48	0.43
3:LD:323:MET:HE2	4:LE:224:TYR:CD1	2.54	0.43
3:LH:152:ILE:HA	3:LH:155:ILE:HG12	2.01	0.43
4:LI:202:PHE:CE1	4:LI:268:PRO:HD2	2.54	0.43
4:LI:405:VAL:O	4:LI:409:VAL:HG22	2.19	0.43
3:LJ:391:ARG:C	3:LJ:392:LYS:HG3	2.43	0.43
3:LL:51:TYR:CD1	3:LL:61:PRO:HA	2.53	0.43
23:M:88:ARG:NH1	23:M:92:GLN:OE1	2.51	0.43
3:MB:28:HIS:O	3:MB:43:GLN:NE2	2.51	0.43
3:MB:139:LEU:HD21	3:MB:170:VAL:HG22	2.01	0.43
4:MC:136:LEU:HB3	4:MC:138:PHE:CE2	2.54	0.43
4:MC:266:HIS:O	4:MC:268:PRO:HD3	2.18	0.43
4:MC:315:CYS:O	4:MC:351:PHE:HA	2.18	0.43
3:MF:46:ARG:NH2	4:MG:73:THR:HA	2.33	0.43
4:MG:163:LYS:HA	4:MG:163:LYS:HD3	1.74	0.43
4:MG:434:GLU:N	28:O2:46:ARG:HH22	2.17	0.43
3:MH:350:LYS:NZ	4:MI:181:VAL:HG13	2.33	0.43
4:MI:229:ARG:HE	4:MI:368:LEU:HD22	1.84	0.43
4:MI:262:TYR:CE1	3:MJ:393:ALA:HA	2.54	0.43
3:MJ:51:TYR:CD1	3:MJ:61:PRO:HA	2.54	0.43
3:MJ:173:PRO:O	3:MJ:380:ARG:NH2	2.52	0.43
4:MK:3:GLU:N	4:MK:133:GLN:OE1	2.51	0.43
4:MK:16:ILE:HG21	39:MK:501:GTP:HN21	1.84	0.43
4:MK:389:ALA:HA	4:MK:392:ASP:OD2	2.18	0.43
4:MM:148:GLY:O	4:MM:151:SER:OG	2.32	0.43
4:MM:278:ALA:HB1	4:MM:282:TYR:OH	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MM:363:VAL:HG12	4:MM:368:LEU:HD22	2.01	0.43
4:NA:163:LYS:HA	4:NA:163:LYS:HD3	1.77	0.43
3:NB:48:ASN:HA	3:NB:51:TYR:O	2.19	0.43
4:NC:46:ASP:HA	4:NC:50:ASN:HB3	2.01	0.43
4:NC:260:VAL:O	3:ND:397:TRP:HH2	2.02	0.43
3:ND:21:TRP:CZ2	3:ND:63:ALA:HB2	2.53	0.43
3:ND:269:GLY:O	3:ND:367:PHE:N	2.34	0.43
4:NE:36:MET:HE3	4:NE:61:HIS:CE1	2.54	0.43
4:NE:204:VAL:HG23	4:NE:302:MET:HG2	2.01	0.43
3:NF:77:ARG:HD3	3:NF:90:PHE:CE2	2.52	0.43
3:NF:87:PRO:HA	3:NF:90:PHE:CD2	2.53	0.43
3:NF:145:SER:HB2	3:NF:188:SER:HB3	2.01	0.43
3:NF:183:TYR:OH	3:NF:395:LEU:HD11	2.19	0.43
3:NF:268:PRO:HD2	3:NF:301:ALA:HB2	2.00	0.43
3:NF:309:ARG:O	3:NF:371:SER:OG	2.24	0.43
4:NG:23:LEU:HD12	4:NG:232:GLY:HA3	2.01	0.43
4:NG:146:GLY:N	39:NG:501:GTP:O2B	2.52	0.43
3:NH:30:ILE:HG13	3:NH:36:TYR:HD1	1.84	0.43
3:NJ:320:ARG:NH1	3:NJ:355:ASP:HB2	2.33	0.43
4:NK:174:ALA:HB3	4:NK:177:VAL:O	2.18	0.43
4:NK:263:PRO:O	4:NK:264:ARG:HB2	2.19	0.43
27:O:52:LYS:HD3	27:O:56:ILE:HD12	2.00	0.43
27:O:53:ILE:O	27:O:57:THR:N	2.40	0.43
28:O2:36:GLU:CA	30:Q2:1414:LEU:HD12	2.49	0.43
28:O3:102:LEU:HD12	28:O3:102:LEU:O	2.19	0.43
4:OA:34:GLY:O	4:OA:61:HIS:ND1	2.52	0.43
4:OC:174:ALA:HB3	4:OC:177:VAL:O	2.19	0.43
4:OC:287:SER:N	4:OC:290:GLU:OE2	2.51	0.43
4:OE:30:ILE:HG13	4:OE:53:PHE:HE2	1.84	0.43
4:OI:252:LEU:HD12	4:OI:253:THR:N	2.33	0.43
3:OJ:282:ARG:HE	3:OJ:288:GLU:CD	2.27	0.43
4:OK:75:VAL:HG22	4:OK:79:ARG:HH21	1.83	0.43
4:OK:368:LEU:HD23	4:OK:368:LEU:H	1.83	0.43
3:OL:321:MET:HE3	3:OL:363:MET:HG3	2.01	0.43
29:P1:509:CYS:HB2	29:P1:518:ILE:HG13	2.00	0.43
29:P3:16:LEU:HB2	29:P3:614:TRP:CZ3	2.54	0.43
4:PA:176:GLN:NE2	4:PA:177:VAL:HG23	2.34	0.43
4:PA:319:TYR:CD2	4:PA:323:VAL:HG11	2.54	0.43
3:PB:48:ASN:HA	3:PB:51:TYR:O	2.19	0.43
3:PB:133:PHE:HD2	3:PB:164:MET:HE1	1.82	0.43
3:PB:272:PRO:HD3	3:PB:289:LEU:HD22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:PC:16:ILE:HG13	4:PC:17:GLY:N	2.33	0.43
3:PD:271:ALA:HB3	3:PD:365:ALA:H	1.84	0.43
4:PE:11:GLN:HG3	39:PE:501:GTP:O1B	2.19	0.43
3:PF:350:LYS:HE3	4:PG:180:ALA:HA	2.00	0.43
4:PG:104:ALA:O	4:PG:108:TYR:N	2.47	0.43
4:PG:205:ASP:HB3	4:PG:304:LYS:HZ3	1.83	0.43
3:PH:51:TYR:CD1	3:PH:61:PRO:HA	2.54	0.43
3:PH:317:PHE:HB3	3:PH:321:MET:HE3	2.00	0.43
4:PM:141:PHE:HB2	4:PM:173:PRO:HD3	2.00	0.43
30:Q1:1427:LYS:HB2	30:Q1:1499:LYS:CB	2.49	0.43
30:Q2:1417:ARG:NE	30:Q2:1417:ARG:O	2.52	0.43
4:QC:346:TRP:CD1	4:QC:346:TRP:N	2.86	0.43
4:QC:399:TYR:HB3	4:QC:422:ARG:NH2	2.34	0.43
3:QD:2:ARG:HB3	3:QD:131:GLN:NE2	2.33	0.43
4:QE:251:ASP:HB3	4:QE:254:GLU:OE1	2.19	0.43
3:QF:2:ARG:HH22	3:QF:251:ARG:NH2	2.17	0.43
3:QF:68:LEU:HD12	3:QF:97:ALA:HB2	2.00	0.43
4:QG:141:PHE:HB2	4:QG:173:PRO:HD3	2.00	0.43
4:QG:296:PHE:HE1	4:QG:377:MET:HE2	1.82	0.43
4:QG:331:ALA:O	4:QG:335:ILE:HG12	2.19	0.43
4:QI:52:PHE:HZ	4:QI:239:THR:HB	1.83	0.43
4:QI:119:LEU:HD23	4:QI:122:ILE:HD11	2.00	0.43
4:QI:230:LEU:O	4:QI:234:ILE:HG12	2.19	0.43
4:QI:269:LEU:N	4:QI:379:SER:O	2.44	0.43
3:QL:16:ILE:HD13	3:QL:226:ASN:HD22	1.84	0.43
3:QL:318:ARG:HD3	3:QL:358:PRO:HG3	2.00	0.43
31:R2:137:GLU:HA	31:R2:140:LEU:HD12	2.01	0.43
3:RB:4:ILE:HB	3:RB:50:TYR:HE1	1.83	0.43
3:RB:173:PRO:O	3:RB:380:ARG:NH2	2.52	0.43
3:RB:418:LEU:HA	3:RB:421:GLU:HB3	2.00	0.43
4:RC:9:VAL:CG1	4:RC:139:HIS:HB3	2.48	0.43
4:RC:251:ASP:HB3	4:RC:254:GLU:OE1	2.18	0.43
4:RC:324:VAL:HG21	3:RD:219:THR:HG22	2.01	0.43
4:RE:71:GLU:OE1	4:RE:71:GLU:N	2.50	0.43
4:RG:67:PHE:HB2	4:RG:92:LEU:HD13	2.01	0.43
4:RG:392:ASP:O	4:RG:396:ASP:N	2.42	0.43
4:RI:226:ASN:O	4:RI:230:LEU:HG	2.19	0.43
4:RK:88:HIS:CE1	4:RK:121:ARG:HH22	2.37	0.43
3:RL:200:TYR:HB3	3:RL:202:ILE:HD11	2.01	0.43
4:RM:166:LYS:N	4:RM:199:ASP:OD2	2.51	0.43
3:SD:404:ASP:N	3:SD:404:ASP:OD1	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:SE:89:PRO:HD2	4:TE:280:LYS:HZ3	1.83	0.43
4:SE:116:ASP:N	4:SE:116:ASP:OD1	2.51	0.43
4:SE:150:ALA:O	4:SE:153:LEU:HG	2.19	0.43
3:SF:172:SER:OG	3:SF:205:GLU:OE2	2.26	0.43
4:SG:311:LYS:N	4:SG:382:THR:OG1	2.45	0.43
3:SH:239:CYS:SG	3:SH:316:VAL:HG11	2.58	0.43
3:SH:258:VAL:HB	4:SI:407:TRP:CZ2	2.53	0.43
4:SI:172:TYR:CE2	4:SI:387:ALA:HB1	2.53	0.43
4:SI:279:GLU:O	4:SI:283:HIS:HD2	2.02	0.43
4:SI:408:TYR:HA	4:SI:411:GLU:HG3	2.00	0.43
3:SJ:258:VAL:HB	4:SK:407:TRP:CZ2	2.54	0.43
4:SK:214:ARG:HH11	4:SK:215:ARG:HG3	1.84	0.43
3:SL:324:LYS:HD2	4:SM:221:ARG:HA	1.99	0.43
4:SM:329:ASN:OD1	4:SM:330:ALA:N	2.52	0.43
3:TB:28:HIS:CD2	3:TB:43:GLN:HB2	2.51	0.43
3:TB:392:LYS:HD2	3:TB:392:LYS:O	2.19	0.43
4:TC:13:GLY:HA2	4:TC:16:ILE:HG12	2.01	0.43
4:TC:405:VAL:O	4:TC:409:VAL:HG22	2.19	0.43
4:TC:420:GLU:HA	4:TC:423:GLU:OE2	2.18	0.43
4:TE:370:LYS:HB2	36:Y:161:GLU:OE2	2.19	0.43
3:TF:130:LEU:HB2	3:TF:162:ARG:HH11	1.83	0.43
4:TG:213:CYS:HA	4:TG:217:LEU:HB2	1.99	0.43
3:TH:267:MET:O	3:TH:368:ILE:HD12	2.19	0.43
3:TJ:290:THR:HA	3:TJ:293:MET:HB2	1.99	0.43
3:TJ:324:LYS:HG3	4:TK:221:ARG:NH1	2.34	0.43
3:TJ:350:LYS:HE3	4:TK:181:VAL:H	1.83	0.43
4:TK:192:HIS:NE2	4:TK:420:GLU:OE2	2.49	0.43
4:TK:256:GLN:O	4:TK:260:VAL:HG12	2.19	0.43
4:TK:267:PHE:N	4:TK:268:PRO:HD3	2.34	0.43
4:TK:345:ASP:N	4:TK:345:ASP:OD1	2.51	0.43
3:TL:20:PHE:HA	3:TL:230:SER:HB2	2.01	0.43
3:TL:305:PRO:HA	3:TL:373:ALA:HB2	2.00	0.43
3:TL:357:PRO:HB3	3:TL:362:LYS:HA	2.01	0.43
3:TL:378:PHE:HA	3:TL:381:ILE:HG22	2.00	0.43
4:TM:235:VAL:HA	4:TM:238:ILE:HG12	1.99	0.43
3:TN:311:LEU:HD23	3:TN:342:VAL:HG11	2.00	0.43
4:UC:2:ARG:HA	4:UC:133:GLN:HE22	1.84	0.43
4:UC:11:GLN:HB2	4:UC:74:VAL:HG21	2.01	0.43
4:UC:50:ASN:OD1	4:UC:51:THR:N	2.52	0.43
4:UE:5:ILE:HD13	4:UE:64:ARG:HB3	2.00	0.43
4:UE:320:ARG:HG2	4:UE:358:GLN:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UF:182:PRO:HA	3:UF:381:ILE:HD11	2.01	0.43
4:UG:166:LYS:HB3	4:UG:168:GLU:OE2	2.18	0.43
4:UG:196:GLU:HG2	4:UG:197:HIS:ND1	2.33	0.43
3:UH:324:LYS:HE2	4:UI:222:PRO:CD	2.49	0.43
3:VB:156:ARG:CZ	3:VB:164:MET:HE3	2.49	0.43
3:VB:213:ARG:HH12	3:VB:297:LYS:C	2.24	0.43
3:VB:318:ARG:HD3	3:VB:358:PRO:HG3	2.01	0.43
4:VC:65:ALA:O	4:VC:91:GLN:NE2	2.51	0.43
4:VC:285:GLN:HE22	4:VC:287:SER:HB3	1.84	0.43
4:VC:316:CYS:N	4:VC:378:LEU:O	2.39	0.43
3:VD:113:VAL:HA	3:VD:116:VAL:HG22	2.01	0.43
4:VG:175:PRO:O	4:VG:390:ARG:HD3	2.19	0.43
4:VG:257:THR:HA	3:VH:397:TRP:CZ2	2.53	0.43
4:VI:235:VAL:HA	4:VI:238:ILE:HG12	1.99	0.43
4:VI:280:LYS:O	4:VI:284:GLU:HB2	2.18	0.43
3:VJ:3:GLU:N	3:VJ:3:GLU:OE1	2.52	0.43
3:VJ:238:THR:HB	3:VJ:242:PHE:HD2	1.84	0.43
3:VL:130:LEU:H	3:VL:162:ARG:NH1	2.17	0.43
3:VL:319:GLY:N	3:VL:321:MET:HE1	2.34	0.43
33:W:319:ASN:HA	33:W:322:ASN:HD21	1.84	0.43
4:WA:396:ASP:HB3	4:WA:422:ARG:NH2	2.33	0.43
3:WB:41:ASP:OD1	3:WB:41:ASP:N	2.51	0.43
3:WB:378:PHE:O	3:WB:381:ILE:HG22	2.19	0.43
3:WD:77:ARG:O	3:WD:77:ARG:NH1	2.43	0.43
3:WF:91:VAL:HG11	3:WF:116:VAL:HG12	2.01	0.43
4:WG:226:ASN:OD1	4:WG:229:ARG:NH1	2.51	0.43
4:WG:331:ALA:O	4:WG:335:ILE:HG12	2.18	0.43
4:WG:368:LEU:HD23	4:WG:368:LEU:H	1.83	0.43
3:WH:375:GLN:HA	3:WH:378:PHE:CE1	2.54	0.43
4:WI:207:GLU:HB2	4:WI:304:LYS:NZ	2.34	0.43
4:WI:271:THR:O	4:WI:377:MET:N	2.37	0.43
33:X:389:LEU:O	33:X:392:LYS:HG2	2.18	0.43
34:XB:29:VAL:HA	34:XB:57:THR:HG23	2.00	0.43
34:XC:3:LYS:HZ3	35:XJ:62:ARG:HA	1.79	0.43
34:XD:80:ILE:HD13	34:XD:162:ILE:HD13	2.00	0.43
35:XH:55:THR:O	35:XH:58:LYS:HG3	2.19	0.43
37:YB:60:SER:HA	37:YB:63:ARG:CZ	2.48	0.43
37:YF:90:THR:N	37:YF:93:THR:OG1	2.52	0.43
37:YK:48:GLN:NE2	37:YK:52:TYR:CE1	2.86	0.43
37:YP:43:ILE:O	37:YP:43:ILE:HG13	2.18	0.43
37:YP:137:VAL:HA	37:YP:140:LEU:HD23	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:YR:110:LEU:HD23	37:YR:140:LEU:HD13	2.01	0.43
37:YU:15:TYR:O	37:YU:19:GLN:HG2	2.19	0.43
1:A:202:LYS:HA	1:A:205:ALA:HB3	2.01	0.43
1:A:233:GLN:HB3	1:A:237:LYS:NZ	2.34	0.43
2:A1:258:GLU:O	2:A1:261:ASP:HB2	2.18	0.43
2:A1:297:MET:SD	2:A1:298:ALA:N	2.92	0.43
2:A1:329:CYS:HB3	2:A1:331:ASP:CG	2.44	0.43
2:A2:93:THR:O	2:A2:96:THR:OG1	2.32	0.43
2:A2:144:HIS:O	2:A2:147:MET:HG2	2.19	0.43
2:A2:297:MET:HA	2:A2:300:GLU:HG3	2.01	0.43
2:A3:138:LYS:NZ	17:I3:63:LEU:O	2.39	0.43
2:A4:179:PHE:O	2:A4:183:THR:HG23	2.19	0.43
3:AB:118:ASP:OD1	3:AB:121:ARG:NH1	2.52	0.43
3:AB:121:ARG:HA	3:AB:124:ALA:HB3	2.00	0.43
4:AC:1:MET:N	4:AC:130:THR:OG1	2.46	0.43
4:AC:168:GLU:HB2	4:AC:201:ALA:HA	2.01	0.43
4:AC:226:ASN:HA	4:AC:229:ARG:HD2	2.01	0.43
3:AF:69:GLU:CD	3:AF:71:GLY:H	2.27	0.43
4:AG:254:GLU:OE1	4:AG:254:GLU:N	2.48	0.43
3:AH:180:VAL:HG23	3:AH:183:TYR:HD2	1.83	0.43
4:AI:356:ASN:OD1	4:AI:358:GLN:HB3	2.19	0.43
4:AI:368:LEU:HD23	4:AI:368:LEU:H	1.82	0.43
3:AL:2:ARG:HB3	3:AL:131:GLN:CD	2.44	0.43
3:AL:11:GLN:O	3:AL:14:ASN:HB2	2.19	0.43
3:AL:233:MET:O	3:AL:236:VAL:HG12	2.18	0.43
4:AM:91:GLN:HG3	4:AM:121:ARG:HH21	1.84	0.43
4:AM:117:LEU:O	4:AM:121:ARG:HG2	2.19	0.43
4:AM:264:ARG:NH1	34:XG:116:PRO:HD2	2.34	0.43
5:B1:245:LEU:HG	5:B1:249:GLN:NE2	2.33	0.43
5:B2:85:LEU:HD21	5:B2:169:ARG:HB2	2.01	0.43
5:B4:187:ARG:HD3	10:E1:156:PHE:CD1	2.54	0.43
5:B4:237:ILE:HG12	5:B4:240:ARG:HH12	1.84	0.43
5:B6:180:MET:O	5:B6:184:GLU:OE1	2.37	0.43
5:B7:11:ARG:HB3	5:B8:130:ARG:NH1	2.31	0.43
5:B8:120:ARG:NH2	5:B8:386:LEU:HB3	2.34	0.43
3:BB:34:GLY:HA3	3:BB:58:LYS:HZ2	1.84	0.43
3:BB:257:MET:O	3:BB:259:PRO:HD3	2.19	0.43
4:BC:88:HIS:HE1	4:BC:90:GLU:CD	2.26	0.43
3:BD:137:HIS:O	3:BD:168:SER:HA	2.18	0.43
3:BD:224:ASP:O	3:BD:228:LEU:HG	2.19	0.43
3:BD:318:ARG:HA	3:BD:354:CYS:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BD:391:ARG:C	3:BD:392:LYS:HG3	2.43	0.43
4:BE:21:TRP:CZ2	4:BE:65:ALA:HB2	2.54	0.43
3:BF:44:LEU:HA	15:H3:23:PHE:CZ	2.54	0.43
3:BF:234:SER:O	3:BF:238:THR:HG23	2.18	0.43
4:BG:272:TYR:CE1	4:BG:374:ALA:HB1	2.54	0.43
3:BH:84:ILE:O	3:BH:86:ARG:NH1	2.52	0.43
3:BH:152:ILE:O	3:BH:156:ARG:HG2	2.18	0.43
3:BJ:119:VAL:O	3:BJ:122:LYS:HG3	2.19	0.43
3:BJ:357:PRO:O	3:BJ:359:ARG:NH1	2.34	0.43
3:BJ:391:ARG:C	3:BJ:392:LYS:HG3	2.44	0.43
4:BM:168:GLU:HB2	4:BM:201:ALA:HA	2.00	0.43
6:C:67:LYS:NZ	3:ID:78:SER:O	2.44	0.43
7:C1:121:ARG:NH2	7:C2:374:GLN:OE1	2.52	0.43
7:C1:272:GLN:HG3	7:C1:273:HIS:CE1	2.54	0.43
7:C2:110:SER:O	7:C2:114:ARG:HG3	2.18	0.43
7:C2:362:HIS:O	7:C2:366:THR:HG23	2.19	0.43
7:C2:379:ILE:HD13	7:C2:382:ILE:HD12	2.00	0.43
7:C3:383:LYS:O	7:C3:387:LYS:HG2	2.19	0.43
7:C4:142:SER:HA	7:C5:419:ARG:NH2	2.21	0.43
7:C8:146:LEU:HD23	7:C8:146:LEU:HA	1.87	0.43
7:C8:284:PHE:CE1	7:C9:397:GLN:HB3	2.53	0.43
7:C8:295:SER:HA	7:C8:300:TRP:HE1	1.84	0.43
3:CB:394:PHE:HD1	3:CB:397:TRP:HZ3	1.66	0.43
4:CC:274:PRO:HG3	4:CC:374:ALA:HA	1.99	0.43
3:CD:3:GLU:OE2	3:CD:127:CYS:HB2	2.19	0.43
4:CE:90:GLU:HG2	4:CE:121:ARG:NH2	2.34	0.43
4:CE:263:PRO:HB2	4:CE:264:ARG:CZ	2.48	0.43
4:CE:320:ARG:N	4:CE:374:ALA:O	2.46	0.43
3:CF:69:GLU:OE2	3:CF:96:GLY:HA2	2.19	0.43
4:CG:3:GLU:N	4:CG:133:GLN:OE1	2.51	0.43
4:CG:88:HIS:HA	4:DE:283:HIS:HE1	1.84	0.43
4:CG:224:TYR:CE1	39:CG:501:GTP:C5	3.01	0.43
4:CG:252:LEU:HD12	4:CG:253:THR:N	2.33	0.43
4:CG:255:PHE:O	4:CG:259:LEU:HB2	2.19	0.43
3:CH:295:ASP:HB2	3:CH:298:ASN:HB2	2.00	0.43
4:CI:244:PHE:CB	4:CI:356:ASN:HD21	2.32	0.43
4:CI:306:ASP:OD2	4:CI:309:HIS:N	2.51	0.43
4:CK:34:GLY:HA2	4:CK:86:LEU:HD11	2.00	0.43
4:CK:171:ILE:HD12	4:CK:204:VAL:HG13	2.01	0.43
4:CK:234:ILE:O	4:CK:237:SER:OG	2.34	0.43
3:CL:39:ASP:OD1	3:CL:39:ASP:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CL:66:VAL:HG11	3:CL:147:MET:HE2	2.01	0.43
3:CL:105:HIS:HA	3:CL:150:LEU:HD11	2.00	0.43
4:CM:154:MET:HE3	4:CM:194:THR:HG22	1.99	0.43
7:Ca:358:LYS:HD3	7:Ca:466:LEU:HD22	1.99	0.43
7:Ca:375:ILE:HD13	7:Cb:121:ARG:HD3	2.01	0.43
7:Cb:403:ARG:O	7:Cb:406:ARG:NE	2.31	0.43
7:Cd:319:ALA:HA	7:Cd:322:ARG:NE	2.31	0.43
6:D:140:THR:OG1	6:D:181:GLU:OE1	2.27	0.43
8:D1:52:LEU:HB2	8:D1:55:GLU:CD	2.44	0.43
8:D2:78:ARG:HH11	8:D3:335:GLN:NE2	2.17	0.43
8:D2:90:ALA:O	8:D2:94:ARG:NE	2.51	0.43
8:D2:248:GLU:CD	8:D3:378:LEU:HD21	2.44	0.43
8:D3:189:LEU:HA	8:D3:192:ARG:HH21	1.83	0.43
8:D3:411:SER:HA	8:D3:414:LYS:NZ	2.33	0.43
8:D4:102:LYS:HE3	8:D5:372:ASN:CG	2.44	0.43
8:D4:199:ASP:O	8:D4:203:LEU:HG	2.19	0.43
8:D5:431:MET:SD	8:D5:431:MET:N	2.90	0.43
8:D7:430:CYS:O	8:D7:434:ARG:HG2	2.19	0.43
8:D8:119:ARG:HH22	8:D8:120:GLU:HB2	1.83	0.43
8:D9:343:ILE:HG23	8:D9:392:LYS:HZ1	1.84	0.43
8:D9:423:LEU:HA	8:D9:423:LEU:HD23	1.78	0.43
4:DA:260:VAL:O	3:DB:397:TRP:HH2	2.02	0.43
4:DA:387:ALA:O	4:DA:391:LEU:HG	2.19	0.43
3:DB:330:MET:HA	3:DB:333:VAL:HG22	2.00	0.43
4:DC:102:ASN:HB3	4:DC:105:ARG:HB2	2.01	0.43
4:DC:145:THR:HG23	39:DC:501:GTP:O3B	2.19	0.43
4:DC:186:ASN:OD1	4:DC:187:SER:N	2.52	0.43
3:DD:119:VAL:O	3:DD:122:LYS:HG2	2.19	0.43
3:DD:183:TYR:CZ	3:DD:388:MET:HG3	2.54	0.43
3:DD:217:LEU:HD11	3:DD:220:PRO:HB3	2.00	0.43
3:DD:245:GLN:HE22	4:DE:15:GLN:NE2	2.16	0.43
4:DE:104:ALA:O	4:DE:108:TYR:N	2.50	0.43
4:DE:216:ASN:OD1	4:DE:217:LEU:N	2.51	0.43
4:DG:16:ILE:HG22	4:DG:228:ASN:OD1	2.18	0.43
4:DG:185:TYR:CE2	4:DG:398:MET:HE1	2.53	0.43
4:DG:246:GLY:HA2	4:DG:357:TYR:HD2	1.83	0.43
4:DI:139:HIS:O	4:DI:170:ALA:HA	2.18	0.43
3:DJ:101:TRP:CE3	3:DJ:187:LEU:HD13	2.54	0.43
3:DJ:330:MET:HG2	3:DJ:349:VAL:HG11	2.00	0.43
4:DK:205:ASP:OD2	4:DK:304:LYS:NZ	2.38	0.43
3:DL:99:ASN:HD21	3:DL:178:THR:HG21	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EA:139:HIS:CE1	4:EA:168:GLU:HB3	2.52	0.43
3:EB:134:GLN:OE1	3:EB:134:GLN:N	2.52	0.43
3:EB:141:GLY:HA3	39:EB:501:GTP:H5"	2.00	0.43
3:EB:250:LEU:O	3:EB:254:ALA:N	2.32	0.43
3:EB:344:TRP:CE3	4:EC:401:LYS:HD2	2.54	0.43
3:ED:278:SER:O	3:ED:282:ARG:HB2	2.18	0.43
4:EE:360:PRO:HG2	4:EE:374:ALA:HB3	2.00	0.43
4:EE:399:TYR:OH	4:EE:415:GLU:HB2	2.18	0.43
3:EF:39:ASP:OD1	3:EF:39:ASP:N	2.51	0.43
3:EF:117:LEU:HB3	3:EF:121:ARG:NH2	2.34	0.43
3:EF:239:CYS:SG	3:EF:316:VAL:HG11	2.59	0.43
3:EJ:188:SER:O	3:EJ:192:LEU:HG	2.19	0.43
3:EJ:246:LEU:HD13	3:EJ:353:VAL:C	2.44	0.43
4:EK:79:ARG:NH2	4:EK:92:LEU:O	2.52	0.43
3:EL:73:MET:O	3:EL:77:ARG:HG2	2.18	0.43
11:F1:343:PHE:CE2	11:F1:347:ILE:HD11	2.54	0.43
11:F2:99:ASN:HA	11:F2:102:GLN:OE1	2.17	0.43
11:F2:398:CYS:HA	11:F2:401:ARG:NH1	2.34	0.43
11:F3:293:PRO:HA	11:F3:296:TRP:CE3	2.52	0.43
11:F4:295:THR:O	11:F4:298:LYS:HG2	2.19	0.43
11:F4:308:GLN:HA	11:F4:311:ARG:HD3	2.01	0.43
11:F5:189:GLN:NE2	11:F5:190:VAL:HG23	2.33	0.43
11:F5:327:THR:HG22	11:F5:331:GLN:NE2	2.28	0.43
11:F6:122:ARG:NH1	11:F6:126:ASP:HB3	2.31	0.43
11:F6:215:LEU:O	11:F6:218:GLU:HG3	2.18	0.43
11:F7:297:ALA:O	11:F7:300:SER:OG	2.29	0.43
3:FB:36:TYR:CZ	3:FB:38:GLY:HA2	2.54	0.43
3:FD:188:SER:O	3:FD:192:LEU:HG	2.19	0.43
4:FE:31:GLN:OE1	4:FE:31:GLN:N	2.52	0.43
4:FE:311:LYS:HE3	4:FE:344:VAL:HG12	2.01	0.43
3:FF:31:ASP:OD1	3:FF:31:ASP:N	2.51	0.43
3:FF:254:ALA:O	3:FF:258:VAL:N	2.49	0.43
3:FF:257:MET:O	3:FF:259:PRO:HD3	2.19	0.43
3:FF:395:LEU:HG	3:FF:399:THR:HG23	2.00	0.43
4:FG:252:LEU:HD12	4:FG:253:THR:N	2.34	0.43
4:FG:262:TYR:OH	3:FH:391:ARG:O	2.36	0.43
3:FH:12:CYS:O	3:FH:16:ILE:HG12	2.19	0.43
4:FI:311:LYS:NZ	4:FI:343:PHE:O	2.49	0.43
3:FJ:252:LYS:HD2	4:FK:101:ASN:ND2	2.34	0.43
4:FK:72:PRO:HA	4:FK:75:VAL:HG12	2.01	0.43
4:FK:88:HIS:CE1	4:GK:280:LYS:HZ1	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FK:223:THR:O	4:FK:227:LEU:HG	2.19	0.43
3:FL:11:GLN:O	3:FL:14:ASN:HB2	2.19	0.43
11:Fg:247:GLN:O	11:Fg:251:GLU:OE1	2.37	0.43
11:Fh:384:ALA:O	11:Fh:388:PRO:HG2	2.19	0.43
11:Fj:347:ILE:O	11:Fj:350:GLU:HG2	2.19	0.43
11:Fm:263:ILE:HA	11:Fm:266:ASN:ND2	2.33	0.43
13:G2:132:SER:HB3	13:G2:147:LYS:HE2	2.00	0.43
13:G2:449:ILE:O	13:G2:470:THR:N	2.51	0.43
13:G2:495:VAL:HG13	13:G2:502:ARG:CZ	2.49	0.43
13:G3:37:TYR:HB2	3:ML:212:PHE:CG	2.54	0.43
13:G3:303:GLU:OE1	13:G3:303:GLU:N	2.47	0.43
14:G5:21:HIS:O	14:G5:44:GLY:N	2.29	0.43
14:G5:295:PRO:HA	14:G5:298:ILE:HG13	2.01	0.43
14:G6:26:TRP:CZ2	3:ML:90:PHE:HD2	2.37	0.43
14:G6:236:TRP:O	14:G6:246:ARG:HD3	2.18	0.43
14:G6:275:MET:HE1	14:G6:278:PHE:HA	2.01	0.43
14:G6:595:ILE:N	14:G6:598:GLU:OE2	2.51	0.43
4:GA:8:HIS:NE2	4:GA:21:TRP:CH2	2.87	0.43
4:GC:12:ALA:O	39:GC:501:GTP:N1	2.52	0.43
4:GC:88:HIS:HB3	4:GC:91:GLN:CG	2.49	0.43
4:GC:188:ILE:HG22	4:GC:421:ALA:HB1	2.00	0.43
3:GD:384:GLN:O	3:GD:388:MET:HG2	2.18	0.43
3:GF:101:TRP:CE3	3:GF:187:LEU:HD13	2.54	0.43
3:GF:389:PHE:CZ	3:GF:405:GLU:HG2	2.51	0.43
4:GG:91:GLN:NE2	4:GG:92:LEU:HD12	2.34	0.43
4:GG:263:PRO:HD3	3:GH:396:HIS:CD2	2.54	0.43
3:GJ:1:MET:HE1	3:GJ:3:GLU:HB3	2.00	0.43
3:GJ:258:VAL:HB	4:GK:407:TRP:HZ2	1.84	0.43
4:GK:89:PRO:HB2	4:GK:90:GLU:OE1	2.18	0.43
4:GK:119:LEU:HA	4:GK:122:ILE:HG12	2.01	0.43
4:GK:287:SER:N	4:GK:290:GLU:OE2	2.51	0.43
4:GK:423:GLU:HA	4:GK:426:ALA:HB3	2.00	0.43
3:GL:292:GLN:O	3:GL:298:ASN:ND2	2.42	0.43
15:H5:4:THR:OG1	15:H5:5:GLN:N	2.51	0.43
15:H6:4:THR:OG1	15:H6:5:GLN:N	2.52	0.43
15:H6:39:THR:HG22	15:H6:42:LEU:HD12	2.01	0.43
4:HA:91:GLN:O	4:HA:93:ILE:HD12	2.19	0.43
3:HB:194:GLU:OE1	3:HB:195:ASN:ND2	2.51	0.43
4:HC:202:PHE:CD1	4:HC:268:PRO:HD2	2.53	0.43
3:HD:51:TYR:CD2	3:HD:59:TYR:HB3	2.54	0.43
4:HE:271:THR:HB	4:HE:377:MET:HE2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HE:308:ARG:NH2	4:HE:312:TYR:OH	2.41	0.43
3:HF:334:GLN:O	3:HF:338:SER:OG	2.22	0.43
4:HG:67:PHE:O	4:HG:93:ILE:N	2.52	0.43
4:HG:386:GLU:HA	4:HG:389:ALA:HB3	1.99	0.43
3:HH:6:HIS:CE1	3:HH:8:GLN:HB3	2.54	0.43
3:HH:31:ASP:OD1	3:HH:35:THR:N	2.52	0.43
3:HH:318:ARG:HG3	3:HH:354:CYS:SG	2.59	0.43
3:HH:326:VAL:O	3:HH:330:MET:HG2	2.19	0.43
4:HI:167:LEU:HB3	4:HI:169:PHE:CE2	2.54	0.43
4:HI:317:MET:HB2	4:HI:375:VAL:HG21	2.01	0.43
3:HL:30:ILE:HD12	3:HL:30:ILE:H	1.83	0.43
3:HL:374:ILE:HG22	3:HL:378:PHE:CE2	2.54	0.43
17:I1:60:SER:HA	17:I1:63:LEU:HG	2.00	0.43
17:I3:47:LYS:HA	17:I3:50:GLN:OE1	2.19	0.43
17:I3:55:THR:O	17:I3:59:LYS:HG3	2.19	0.43
4:IA:316:CYS:O	4:IA:378:LEU:N	2.48	0.43
3:IB:31:ASP:OD1	3:IB:35:THR:N	2.52	0.43
3:IF:246:LEU:HB2	3:IF:352:ALA:HB1	2.01	0.43
3:IF:247:ASN:HB3	3:IF:252:LYS:HE3	2.00	0.43
4:IG:75:VAL:HA	4:IG:78:VAL:HG12	2.01	0.43
4:IG:119:LEU:HD23	4:IG:122:ILE:HD11	1.99	0.43
4:IG:390:ARG:HA	4:IG:393:HIS:CD2	2.54	0.43
3:IH:156:ARG:CZ	3:IH:164:MET:HE3	2.49	0.43
3:IH:228:LEU:O	3:IH:232:THR:HG23	2.19	0.43
4:II:3:GLU:CD	4:II:131:GLY:H	2.27	0.43
4:II:333:ALA:O	4:II:337:THR:HG23	2.19	0.43
3:IJ:11:GLN:OE1	39:IJ:501:GTP:N2	2.52	0.43
3:IJ:31:ASP:OD2	3:IJ:33:THR:OG1	2.37	0.43
4:IM:82:THR:O	4:IM:85:GLN:NE2	2.50	0.43
4:IM:163:LYS:HA	4:IM:163:LYS:HD3	1.75	0.43
4:JA:319:TYR:HB2	4:JA:355:ILE:HD13	2.01	0.43
4:JC:175:PRO:O	4:JC:390:ARG:HD3	2.19	0.43
4:JC:207:GLU:HB2	4:JC:304:LYS:HZ1	1.82	0.43
4:JC:280:LYS:NZ	4:JC:283:HIS:HE1	2.17	0.43
3:JD:188:SER:O	3:JD:192:LEU:HG	2.19	0.43
4:JE:285:GLN:NE2	4:JE:286:LEU:O	2.52	0.43
3:JF:292:GLN:HA	3:JF:295:ASP:OD2	2.18	0.43
4:JG:5:ILE:HD13	4:JG:64:ARG:HB3	2.01	0.43
4:JG:167:LEU:HD13	4:JG:200:CYS:HB2	2.01	0.43
4:JG:280:LYS:HD2	4:JG:280:LYS:HA	1.72	0.43
3:JH:188:SER:O	3:JH:192:LEU:HG	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JJ:8:GLN:HB3	3:JJ:65:LEU:HA	2.00	0.43
3:JJ:31:ASP:OD2	3:JJ:33:THR:OG1	2.37	0.43
20:K:108:LEU:O	20:K:109:GLU:C	2.61	0.43
21:K2:285:PRO:HA	21:K2:290:THR:HA	2.01	0.43
21:K3:391:GLU:OE2	3:KJ:103:LYS:NZ	2.51	0.43
21:K3:486:PRO:HA	21:K3:487:PRO:HD3	1.96	0.43
21:K4:151:LEU:CD2	21:K4:227:LEU:HD13	2.47	0.43
21:K4:320:ASP:HB2	21:K4:324:GLN:HE22	1.83	0.43
21:K4:338:GLN:CD	21:K5:15:ARG:HH22	2.26	0.43
21:K4:349:ARG:O	21:K4:352:MET:HG2	2.19	0.43
21:K4:476:GLN:HE21	4:KK:163:LYS:NZ	2.16	0.43
21:K4:490:ALA:O	21:K4:493:GLN:N	2.49	0.43
4:KA:105:ARG:HG2	4:KA:109:THR:HG21	2.00	0.43
4:KA:224:TYR:HE2	39:KA:501:GTP:O6	2.02	0.43
3:KB:52:ASN:CG	3:KB:62:ARG:HD3	2.44	0.43
3:KB:132:GLY:HA3	3:KB:163:ILE:HB	2.00	0.43
3:KD:138:SER:HB2	3:KD:169:VAL:HG12	2.01	0.43
4:KE:12:ALA:HB1	39:KE:501:GTP:N3	2.33	0.43
3:KF:46:ARG:O	3:KF:49:VAL:HG12	2.19	0.43
3:KF:52:ASN:ND2	3:KF:62:ARG:HD3	2.33	0.43
4:KG:139:HIS:CD2	4:KG:170:ALA:HB2	2.54	0.43
3:KH:132:GLY:HA3	3:KH:163:ILE:H	1.84	0.43
3:KH:137:HIS:O	3:KH:168:SER:HA	2.19	0.43
4:KI:88:HIS:HE1	4:KI:90:GLU:CD	2.26	0.43
4:KI:166:LYS:N	4:KI:199:ASP:OD2	2.51	0.43
4:KI:278:ALA:O	4:KI:370:LYS:NZ	2.51	0.43
3:KL:13:GLY:HA2	3:KL:16:ILE:HB	2.00	0.43
3:KL:20:PHE:CZ	3:KL:24:ILE:HD11	2.54	0.43
3:KL:41:ASP:N	3:KL:41:ASP:OD1	2.51	0.43
3:KL:217:LEU:O	3:KL:219:THR:N	2.52	0.43
20:L:158:LEU:HD22	20:L:161:LYS:HE2	2.01	0.43
20:L:170:ARG:HB2	20:L:182:GLN:HA	2.00	0.43
22:L1:128:LYS:HZ3	4:MC:214:ARG:NH1	2.17	0.43
22:L1:233:GLU:O	22:L1:237:LEU:HG	2.18	0.43
22:L3:193:ARG:HE	22:L3:244:ILE:HG12	1.83	0.43
4:LA:115:VAL:HG21	4:LA:156:ARG:HD3	2.00	0.43
4:LC:185:TYR:CE2	4:LC:398:MET:HE1	2.54	0.43
4:LC:187:SER:O	4:LC:191:THR:HG23	2.18	0.43
4:LC:331:ALA:O	4:LC:334:THR:OG1	2.26	0.43
3:LD:378:PHE:CE1	3:LD:419:VAL:HG22	2.54	0.43
4:LE:266:HIS:C	4:LE:268:PRO:HD3	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LF:121:ARG:HA	3:LF:124:ALA:HB3	1.99	0.43
4:LG:161:TYR:CD1	28:O2:22:TRP:HB2	2.54	0.43
4:LG:428:LEU:O	4:LG:432:TYR:N	2.47	0.43
4:LI:295:CYS:HB2	4:LI:377:MET:HE3	2.01	0.43
4:LK:167:LEU:HD13	4:LK:200:CYS:HB2	2.01	0.43
3:LL:130:LEU:HB2	3:LL:162:ARG:NH1	2.34	0.43
4:MC:146:GLY:N	39:MC:501:GTP:O2B	2.51	0.43
3:MD:51:TYR:HD2	3:MD:59:TYR:HB3	1.84	0.43
3:MF:324:LYS:HG3	4:MG:221:ARG:NH1	2.34	0.43
4:MG:140:SER:HB2	4:MG:171:ILE:HG22	2.00	0.43
4:MG:269:LEU:O	4:MG:378:LEU:HA	2.19	0.43
4:MG:329:ASN:OD1	4:MG:330:ALA:N	2.52	0.43
3:MH:274:THR:HG21	3:MH:279:GLN:HA	2.01	0.43
3:MH:317:PHE:HB2	3:MH:353:VAL:HA	2.01	0.43
3:ML:189:VAL:HA	3:ML:192:LEU:HD12	2.00	0.43
4:MM:10:GLY:HA2	4:MM:145:THR:OG1	2.19	0.43
4:MM:118:VAL:HA	4:MM:121:ARG:HG2	2.01	0.43
4:MM:167:LEU:HB3	4:MM:169:PHE:CE1	2.54	0.43
4:MM:345:ASP:N	4:MM:345:ASP:OD1	2.50	0.43
3:NB:249:ASP:O	3:NB:252:LYS:HB3	2.18	0.43
4:NC:363:VAL:H	4:NC:368:LEU:HD21	1.83	0.43
4:NC:363:VAL:HG13	4:NC:366:GLY:HA3	2.00	0.43
4:NE:408:TYR:HB3	4:NE:413:MET:SD	2.57	0.43
3:NH:189:VAL:HA	3:NH:192:LEU:HD12	2.01	0.43
4:NI:1:MET:HE2	4:NI:2:ARG:H	1.84	0.43
4:NK:318:LEU:O	4:NK:375:VAL:HA	2.18	0.43
3:NL:132:GLY:HA3	3:NL:163:ILE:H	1.82	0.43
4:OA:36:MET:HG3	4:OA:41:THR:OG1	2.19	0.43
3:OB:392:LYS:HD2	3:OB:392:LYS:O	2.19	0.43
3:OF:148:GLY:O	3:OF:152:ILE:HG12	2.18	0.43
4:OI:182:VAL:O	4:OI:185:TYR:HB2	2.18	0.43
4:OI:208:ALA:H	4:OI:304:LYS:NZ	2.14	0.43
4:OI:213:CYS:HA	4:OI:217:LEU:HB2	2.01	0.43
4:OI:318:LEU:O	4:OI:375:VAL:HA	2.19	0.43
4:OI:418:PHE:O	4:OI:422:ARG:NH2	2.52	0.43
3:OJ:30:ILE:HG13	3:OJ:36:TYR:HD1	1.84	0.43
3:OJ:149:THR:HG21	3:OJ:188:SER:HA	2.00	0.43
3:OL:52:ASN:OD1	3:OL:62:ARG:NH1	2.51	0.43
3:OL:156:ARG:HD2	3:OL:156:ARG:HA	1.85	0.43
3:OL:386:THR:O	3:OL:390:ARG:N	2.51	0.43
29:P1:59:PHE:H	29:P1:101:ARG:CZ	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:P2:229:ILE:HD11	29:P2:253:VAL:HG11	2.01	0.43
29:P2:258:CYS:HA	29:P2:264:LEU:HD23	2.01	0.43
29:P2:314:ILE:O	29:P2:326:LEU:HD12	2.19	0.43
29:P2:443:VAL:O	29:P2:454:GLU:HB2	2.18	0.43
29:P3:71:THR:HG23	29:P3:119:PHE:CE2	2.54	0.43
29:P3:200:GLN:NE2	29:P3:239:LEU:H	2.16	0.43
29:P3:498:MET:N	29:P3:498:MET:SD	2.92	0.43
4:PA:116:ASP:N	4:PA:116:ASP:OD1	2.52	0.43
4:PA:138:PHE:HZ	4:PA:235:VAL:HG11	1.84	0.43
4:PA:174:ALA:HA	4:PA:205:ASP:OD1	2.19	0.43
3:PB:12:CYS:HA	39:PB:501:GTP:HN22	1.83	0.43
3:PB:173:PRO:HB3	3:PB:380:ARG:CZ	2.48	0.43
3:PB:250:LEU:HD13	3:PB:253:LEU:HD12	2.01	0.43
4:PC:282:TYR:OH	37:YD:131:ARG:HG3	2.19	0.43
3:PD:2:ARG:HA	3:PD:129:CYS:O	2.19	0.43
4:PE:132:LEU:HD13	4:PE:164:LYS:HE3	2.01	0.43
4:PE:235:VAL:HA	4:PE:238:ILE:HG12	2.01	0.43
4:PE:265:ILE:HD12	4:PE:432:TYR:CE1	2.54	0.43
3:PF:11:GLN:HG3	39:PF:501:GTP:PA	2.58	0.43
3:PF:345:ILE:HD12	3:PF:346:PRO:HD2	1.99	0.43
4:PG:119:LEU:HD23	4:PG:122:ILE:HD12	2.00	0.43
4:PG:139:HIS:CD2	4:PG:170:ALA:HB2	2.54	0.43
4:PG:225:THR:O	4:PG:229:ARG:HB2	2.18	0.43
4:PI:80:THR:HA	4:PI:84:ARG:NH1	2.33	0.43
4:PI:192:HIS:CE1	4:PI:193:THR:HG23	2.53	0.43
3:PJ:8:GLN:NE2	3:PJ:17:GLY:HA3	2.33	0.43
3:PL:141:GLY:O	3:PL:145:SER:OG	2.33	0.43
3:PL:267:MET:HA	3:PL:268:PRO:HD3	1.92	0.43
4:PM:11:GLN:HG2	39:PM:501:GTP:O2G	2.19	0.43
4:PM:46:ASP:HA	4:PM:50:ASN:HB3	2.00	0.43
3:QB:49:VAL:C	3:QB:62:ARG:HH21	2.27	0.43
4:QC:118:VAL:HA	4:QC:121:ARG:HG2	2.01	0.43
4:QC:261:PRO:HA	3:QD:394:PHE:CE1	2.47	0.43
3:QD:72:THR:O	3:QD:75:SER:OG	2.27	0.43
3:QD:357:PRO:O	3:QD:359:ARG:NH1	2.47	0.43
4:QE:104:ALA:HB1	4:QE:108:TYR:CD2	2.54	0.43
4:QE:175:PRO:O	4:QE:390:ARG:HD3	2.19	0.43
4:QE:214:ARG:HH11	4:QE:215:ARG:HG3	1.82	0.43
4:QE:368:LEU:HD23	4:QE:368:LEU:H	1.84	0.43
4:QG:3:GLU:N	4:QG:133:GLN:OE1	2.52	0.43
4:QG:7:ILE:HG22	4:QG:137:ILE:HA	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QH:228:LEU:O	3:QH:232:THR:HG23	2.19	0.43
4:QI:10:GLY:HA2	4:QI:145:THR:OG1	2.19	0.43
4:QI:224:TYR:CE2	39:QI:501:GTP:O6	2.72	0.43
4:QI:235:VAL:HA	4:QI:238:ILE:HG12	2.01	0.43
3:QJ:11:GLN:HG3	39:QJ:501:GTP:PA	2.59	0.43
3:QJ:249:ASP:O	3:QJ:252:LYS:HB2	2.18	0.43
3:QJ:327:ASP:HA	3:QJ:330:MET:SD	2.59	0.43
4:QK:12:ALA:HB2	39:QK:501:GTP:H5"	2.00	0.43
4:QK:167:LEU:HD13	4:QK:200:CYS:HB2	2.00	0.43
4:QK:262:TYR:CE1	3:QL:393:ALA:HA	2.54	0.43
4:QK:362:VAL:HA	4:QK:368:LEU:HD21	2.01	0.43
3:QL:249:ASP:O	3:QL:252:LYS:HB2	2.19	0.43
4:QM:160:ASP:OD1	4:QM:161:TYR:N	2.52	0.43
27:R:171:GLU:OE2	27:R:172:LYS:HG3	2.18	0.43
3:RB:217:LEU:O	3:RB:219:THR:N	2.52	0.43
3:RB:322:SER:HB3	4:RC:221:ARG:NH2	2.34	0.43
3:RB:394:PHE:HD1	3:RB:397:TRP:CZ3	2.37	0.43
39:RB:501:GTP:O3G	39:RB:501:GTP:O3'	2.21	0.43
4:RC:122:ILE:O	4:RC:126:ALA:N	2.47	0.43
4:RC:254:GLU:OE1	4:RC:254:GLU:N	2.43	0.43
3:RD:239:CYS:SG	3:RD:316:VAL:HG11	2.58	0.43
4:RE:75:VAL:HG22	4:RE:79:ARG:HH21	1.84	0.43
4:RE:279:GLU:HA	4:RE:282:TYR:HB3	1.99	0.43
4:RG:54:SER:N	4:RG:62:VAL:O	2.52	0.43
4:RG:182:VAL:O	4:RG:185:TYR:HB2	2.18	0.43
4:RG:311:LYS:HE3	4:RG:344:VAL:HA	2.01	0.43
3:RH:156:ARG:NE	3:RH:164:MET:HE3	2.34	0.43
3:RH:269:GLY:HA3	3:RH:367:PHE:HB3	2.00	0.43
3:RH:271:ALA:HB1	3:RH:272:PRO:CD	2.48	0.43
3:RH:318:ARG:HA	3:RH:354:CYS:HB3	2.00	0.43
3:RH:345:ILE:HD11	4:RI:181:VAL:HG11	2.01	0.43
4:RI:208:ALA:H	4:RI:304:LYS:NZ	2.16	0.43
3:RJ:82:GLY:HA2	3:RJ:85:PHE:HD2	1.84	0.43
4:RK:397:LEU:O	4:RK:401:LYS:HG2	2.19	0.43
4:RM:363:VAL:HG13	4:RM:366:GLY:HA3	2.01	0.43
3:SB:152:ILE:HD13	3:SB:192:LEU:HD13	2.01	0.43
4:SC:75:VAL:HG22	4:SC:79:ARG:HH21	1.84	0.43
4:SC:287:SER:HG	4:SC:290:GLU:CD	2.21	0.43
4:SE:51:THR:HG23	4:SE:52:PHE:HD2	1.84	0.43
4:SE:386:GLU:HA	4:SE:389:ALA:HB3	2.00	0.43
3:SF:322:SER:HG	3:SF:323:MET:N	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:SG:12:ALA:CB	39:SG:501:GTP:H5"	2.48	0.43
4:SG:160:ASP:OD1	4:SG:161:TYR:N	2.52	0.43
4:SG:285:GLN:HE22	4:SG:287:SER:HB3	1.83	0.43
3:SH:204:ASN:OD1	3:SH:205:GLU:N	2.52	0.43
4:SI:139:HIS:NE2	4:SI:170:ALA:HB2	2.34	0.43
4:SI:252:LEU:HD12	4:SI:253:THR:N	2.33	0.43
3:SJ:172:SER:OG	3:SJ:174:LYS:HG2	2.19	0.43
3:SJ:251:ARG:CD	4:SK:100:ALA:HB2	2.45	0.43
4:SK:185:TYR:CZ	4:SK:398:MET:HE1	2.54	0.43
3:SL:266:PHE:HD1	3:SL:370:ASN:HB2	1.83	0.43
4:SM:196:GLU:HG2	4:SM:197:HIS:ND1	2.34	0.43
4:TC:161:TYR:HB3	4:TC:164:LYS:NZ	2.34	0.43
4:TC:280:LYS:HA	4:TC:280:LYS:HD2	1.71	0.43
3:TD:100:ASN:HB3	3:TD:103:LYS:HG2	2.01	0.43
3:TD:101:TRP:CE3	3:TD:187:LEU:HD13	2.54	0.43
3:TD:180:VAL:O	3:TD:183:TYR:HB2	2.18	0.43
3:TD:318:ARG:HA	3:TD:354:CYS:HB3	2.00	0.43
3:TF:394:PHE:HA	3:TF:397:TRP:HZ3	1.84	0.43
4:TI:145:THR:OG1	39:TI:501:GTP:O1B	2.35	0.43
4:TK:252:LEU:HA	4:TK:255:PHE:CD2	2.54	0.43
4:TK:280:LYS:O	4:TK:284:GLU:HB2	2.18	0.43
3:TL:391:ARG:C	3:TL:392:LYS:HG3	2.44	0.43
4:TM:66:VAL:HG12	4:TM:68:VAL:HG13	1.99	0.43
4:TM:397:LEU:O	4:TM:401:LYS:HG2	2.19	0.43
3:TN:40:SER:HB2	3:TN:43:GLN:CD	2.44	0.43
3:TN:318:ARG:HA	3:TN:354:CYS:HB3	2.01	0.43
3:UB:118:ASP:O	3:UB:122:LYS:HD3	2.19	0.43
4:UC:186:ASN:OD1	4:UC:187:SER:N	2.52	0.43
4:UC:235:VAL:HA	4:UC:238:ILE:HG12	2.01	0.43
3:UD:150:LEU:O	3:UD:153:SER:OG	2.34	0.43
3:UD:198:GLU:OE2	3:UD:266:PHE:HD2	2.01	0.43
3:UD:262:ARG:NH2	3:UD:425:TYR:OH	2.52	0.43
4:UE:54:SER:N	4:UE:62:VAL:O	2.51	0.43
3:UF:305:PRO:HB2	3:UF:310:TYR:HE1	1.84	0.43
4:UG:160:ASP:OD1	4:UG:161:TYR:N	2.52	0.43
3:UH:47:ILE:HG12	3:UH:59:TYR:CD2	2.54	0.43
3:UH:290:THR:HG21	3:UH:329:GLN:HB3	1.99	0.43
3:UJ:52:ASN:ND2	3:UJ:62:ARG:HD3	2.34	0.43
3:UJ:207:LEU:HD22	3:UJ:228:LEU:HD23	1.99	0.43
3:UJ:375:GLN:HA	3:UJ:378:PHE:CE1	2.54	0.43
4:VA:32:PRO:O	4:VA:85:GLN:NE2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VB:12:CYS:HB3	39:VB:501:GTP:H5'	2.00	0.43
4:VC:47:ASP:HB3	4:VC:49:PHE:CE2	2.54	0.43
4:VC:274:PRO:HG3	4:VC:374:ALA:HA	2.00	0.43
4:VC:282:TYR:HD1	33:W:319:ASN:ND2	2.16	0.43
4:VC:408:TYR:CD2	4:VC:418:PHE:HZ	2.37	0.43
3:VD:6:HIS:HD1	3:VD:63:ALA:HB1	1.83	0.43
3:VD:20:PHE:HA	3:VD:230:SER:HB2	2.00	0.43
3:VD:280:GLN:H	3:VD:280:GLN:HG3	1.72	0.43
3:VD:292:GLN:O	3:VD:298:ASN:ND2	2.48	0.43
3:VF:52:ASN:ND2	3:VF:62:ARG:HD3	2.34	0.43
3:VF:187:LEU:HD21	3:VF:408:PHE:CE1	2.54	0.43
3:VF:305:PRO:HB2	3:VF:310:TYR:HE1	1.83	0.43
3:VF:394:PHE:HA	3:VF:397:TRP:HZ3	1.83	0.43
4:VG:89:PRO:HD2	4:WG:280:LYS:NZ	2.34	0.43
4:VG:145:THR:HG23	39:VG:501:GTP:O3B	2.19	0.43
4:VG:167:LEU:HB3	4:VG:169:PHE:CZ	2.54	0.43
4:VG:282:TYR:HD2	4:VG:283:HIS:HD2	1.66	0.43
3:VH:322:SER:N	3:VH:325:GLU:OE2	2.48	0.43
3:VH:324:LYS:HD3	4:VI:210:TYR:CE1	2.54	0.43
4:VI:53:PHE:HA	4:VI:63:PRO:HA	1.99	0.43
4:VI:280:LYS:HD2	4:VI:280:LYS:HA	1.74	0.43
3:VJ:48:ASN:HA	3:VJ:51:TYR:O	2.18	0.43
4:VK:70:LEU:HB3	4:VK:97:GLU:O	2.19	0.43
3:VL:359:ARG:NH1	33:X:390:ARG:NH1	2.67	0.43
3:WD:12:CYS:HB3	39:WD:501:GTP:O4'	2.18	0.43
3:WD:347:ASN:HB3	4:WE:178:SER:HB3	1.99	0.43
4:WE:101:ASN:HA	4:WE:144:GLY:HA2	2.00	0.43
4:WE:425:LEU:O	4:WE:428:LEU:N	2.52	0.43
3:WF:52:ASN:ND2	3:WF:62:ARG:HD3	2.32	0.43
4:WG:175:PRO:HB3	4:WG:390:ARG:HD2	1.99	0.43
3:WH:137:HIS:O	3:WH:168:SER:HA	2.19	0.43
4:WI:174:ALA:HB3	4:WI:177:VAL:O	2.18	0.43
3:WJ:32:PRO:HA	3:WJ:81:PHE:CE1	2.54	0.43
3:WJ:182:PRO:HA	3:WJ:381:ILE:HD11	2.01	0.43
3:WL:21:TRP:CZ2	3:WL:63:ALA:HB2	2.54	0.43
34:XA:125:LEU:HB3	34:XA:130:ASN:HD22	1.83	0.43
34:XC:86:TYR:CE1	34:XC:108:TYR:HB3	2.54	0.43
34:XE:20:LYS:O	34:XE:23:GLN:NE2	2.41	0.43
34:XF:28:LYS:O	34:XF:57:THR:HA	2.19	0.43
37:YA:26:ILE:HA	37:YA:29:LEU:HB2	2.01	0.43
37:YB:4:VAL:O	37:YB:8:LEU:HG	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:YB:14:LYS:HD2	37:YB:14:LYS:C	2.43	0.43
37:YB:46:ILE:HD13	37:YB:106:GLN:HA	2.00	0.43
37:YC:115:ALA:HB2	37:YC:143:ILE:HD11	2.01	0.43
37:YD:64:ARG:HG2	37:YD:68:MET:HE1	2.01	0.43
37:YE:41:ARG:HH12	37:YE:45:SER:H	1.66	0.43
37:YF:9:ARG:HH22	37:YG:54:GLU:CD	2.27	0.43
37:YF:86:LEU:HB3	37:YF:87:HIS:H	1.51	0.43
37:YQ:90:THR:O	37:YQ:94:ASN:N	2.32	0.43
37:YS:16:LYS:O	37:YS:19:GLN:HG2	2.19	0.43
38:a:18:ALA:HA	38:a:21:LYS:NZ	2.34	0.43
38:a:47:ALA:O	38:a:51:MET:HG2	2.18	0.43
1:A:184:ARG:HA	1:A:187:TYR:HB3	2.00	0.43
2:A1:240:THR:HG21	5:B4:252:ASN:OD1	2.19	0.43
2:A1:253:LEU:HB3	2:A1:400:ARG:NH2	2.33	0.43
2:A3:192:ASN:OD1	2:A3:195:SER:N	2.51	0.43
4:AC:89:PRO:HB2	4:AC:90:GLU:OE1	2.19	0.43
4:AC:102:ASN:HB3	4:AC:105:ARG:HB2	2.00	0.43
4:AC:272:TYR:CE1	4:AC:374:ALA:HB1	2.54	0.43
4:AC:316:CYS:N	4:AC:378:LEU:O	2.30	0.43
3:AD:217:LEU:O	3:AD:219:THR:N	2.51	0.43
4:AE:327:ASP:OD1	4:AE:328:VAL:N	2.52	0.43
3:AF:3:GLU:OE2	3:AF:127:CYS:HB2	2.18	0.43
3:AF:345:ILE:HD12	3:AF:346:PRO:HD2	2.00	0.43
3:AH:153:SER:O	3:AH:156:ARG:HB2	2.18	0.43
4:AI:115:VAL:O	4:AI:119:LEU:N	2.40	0.43
4:AI:140:SER:HB2	4:AI:171:ILE:HG22	2.01	0.43
4:AI:338:LYS:HE2	26:N3:71:LEU:HD22	2.01	0.43
3:AJ:2:ARG:HB3	3:AJ:131:GLN:CD	2.44	0.43
3:AJ:174:LYS:HG2	3:AJ:205:GLU:OE2	2.19	0.43
3:AJ:324:LYS:HD2	4:AK:221:ARG:HA	2.01	0.43
4:AK:70:LEU:HB3	4:AK:97:GLU:O	2.19	0.43
3:AL:192:LEU:O	3:AL:196:THR:HG22	2.19	0.43
4:AM:70:LEU:HA	4:AM:95:GLY:HA3	2.00	0.43
4:AM:203:MET:HE1	4:AM:267:PHE:HB3	2.00	0.43
4:AM:422:ARG:CD	34:XG:53:ASN:HD21	2.32	0.43
1:B:480:GLU:O	1:B:483:LYS:HE3	2.18	0.43
5:B3:293:LEU:HD22	5:B3:363:LEU:HB2	1.99	0.43
5:B4:70:THR:HB	5:B4:74:TRP:CZ3	2.53	0.43
5:B4:92:LEU:HD11	5:B4:236:SER:HB2	2.00	0.43
5:B5:43:ARG:NH2	5:B5:47:ASN:OD1	2.52	0.43
5:B6:9:SER:O	5:B6:11:ARG:NE	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B6:201:LEU:HB2	8:D9:216:SER:OG	2.19	0.43
5:B7:36:HIS:O	5:B7:39:ARG:HB3	2.19	0.43
5:B7:363:LEU:HD12	5:B7:366:LEU:HD11	2.01	0.43
3:BB:318:ARG:HA	3:BB:354:CYS:HB3	2.00	0.43
4:BC:16:ILE:HG13	4:BC:17:GLY:N	2.33	0.43
4:BC:301:GLN:N	4:BC:301:GLN:OE1	2.52	0.43
4:BC:416:GLY:O	4:BC:420:GLU:HG3	2.18	0.43
4:BG:331:ALA:O	4:BG:335:ILE:HG12	2.19	0.43
4:BI:216:ASN:HD21	4:BI:275:VAL:HG23	1.84	0.43
3:BJ:8:GLN:OE1	3:BJ:14:ASN:HA	2.19	0.43
3:BJ:228:LEU:O	3:BJ:232:THR:HG23	2.19	0.43
3:BJ:258:VAL:HB	4:BK:407:TRP:HZ2	1.84	0.43
4:BK:145:THR:HG1	39:BK:501:GTP:PB	2.42	0.43
3:BL:255:VAL:HG12	4:BM:407:TRP:CD2	2.54	0.43
3:BL:392:LYS:HD2	3:BL:392:LYS:O	2.19	0.43
4:BM:88:HIS:HA	4:CM:283:HIS:CE1	2.53	0.43
6:C:181:GLU:HB2	6:C:241:PHE:CE2	2.54	0.43
7:C2:191:PRO:HA	7:C2:194:VAL:HB	2.01	0.43
7:C2:275:ARG:O	7:C2:278:SER:HB3	2.18	0.43
7:C2:296:VAL:O	7:C2:299:THR:OG1	2.18	0.43
7:C2:403:ARG:HG3	7:C2:406:ARG:NH2	2.34	0.43
7:C4:157:LYS:HE3	7:C4:265:LEU:HD23	1.99	0.43
7:C4:386:ILE:HG12	7:C4:434:LEU:HB3	2.01	0.43
7:C6:131:LYS:O	7:C6:135:ILE:HG12	2.19	0.43
7:C6:251:GLN:HB3	7:C6:255:GLU:OE2	2.19	0.43
7:C7:112:SER:O	7:C7:116:ASN:ND2	2.52	0.43
7:C7:285:ARG:HG2	10:E2:27:TYR:CZ	2.54	0.43
7:C8:424:VAL:O	7:C8:427:VAL:HG22	2.19	0.43
4:CC:320:ARG:HG2	4:CC:358:GLN:O	2.18	0.43
4:CC:425:LEU:O	4:CC:428:LEU:HB3	2.19	0.43
3:CD:182:PRO:HB3	3:CD:381:ILE:HD11	2.01	0.43
3:CD:374:ILE:O	3:CD:377:LEU:HB2	2.19	0.43
4:CE:75:VAL:HG22	4:CE:79:ARG:HH21	1.84	0.43
4:CE:160:ASP:OD1	4:CE:161:TYR:N	2.52	0.43
4:CE:320:ARG:HD3	4:CE:360:PRO:HG3	2.01	0.43
3:CF:324:LYS:HE3	3:CF:324:LYS:HB3	1.91	0.43
4:CG:166:LYS:O	4:CG:199:ASP:HB2	2.19	0.43
4:CG:398:MET:O	4:CG:402:ARG:N	2.52	0.43
3:CH:167:PHE:HA	3:CH:200:TYR:HB2	2.00	0.43
3:CJ:46:ARG:NH1	3:CJ:241:ARG:O	2.52	0.43
3:CJ:156:ARG:NH1	3:CJ:195:ASN:O	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CJ:249:ASP:O	3:CJ:252:LYS:HB3	2.19	0.43
4:CK:174:ALA:HB3	4:CK:177:VAL:O	2.18	0.43
4:CK:311:LYS:HE3	4:CK:344:VAL:HG12	2.00	0.43
3:CL:82:GLY:HA2	3:CL:85:PHE:CD2	2.54	0.43
3:CL:249:ASP:O	3:CL:252:LYS:HB3	2.18	0.43
3:CL:314:ALA:HB3	3:CL:368:ILE:HG23	2.00	0.43
7:Cc:192:LEU:HB2	7:Cc:226:ILE:HG21	2.01	0.43
7:Cc:302:LYS:HA	7:Cc:302:LYS:HD3	1.79	0.43
7:Cd:263:ALA:O	7:Cd:267:ILE:HG13	2.18	0.43
7:Cd:311:SER:O	7:Cd:315:ARG:HG3	2.19	0.43
6:D:186:ASP:OD1	6:D:190:GLU:HG2	2.19	0.43
8:D1:78:ARG:HB2	8:D2:335:GLN:NE2	2.34	0.43
8:D2:57:PHE:HB3	8:D2:61:TYR:CZ	2.54	0.43
8:D2:323:ARG:O	8:D2:327:THR:HG23	2.19	0.43
8:D4:262:HIS:O	8:D4:266:LEU:HG	2.19	0.43
8:D7:363:ARG:NH2	8:D8:225:ASP:HA	2.34	0.43
8:D7:376:ARG:HH11	8:D8:102:LYS:NZ	2.17	0.43
8:D8:157:GLN:O	8:D8:161:ARG:HG2	2.18	0.43
8:D8:211:CYS:HA	8:D8:214:ASN:ND2	2.34	0.43
8:D9:332:GLN:HA	8:Da:78:ARG:CZ	2.49	0.43
4:DA:34:GLY:O	4:DA:61:HIS:ND1	2.52	0.43
3:DB:240:LEU:HD22	3:DB:248:ALA:HB1	1.99	0.43
4:DC:145:THR:HG1	39:DC:501:GTP:PB	2.41	0.43
4:DC:270:ALA:C	4:DC:271:THR:HG1	2.25	0.43
3:DD:256:ASN:HB3	3:DD:350:LYS:HG3	2.01	0.43
4:DE:345:ASP:N	4:DE:345:ASP:OD1	2.48	0.43
4:DG:235:VAL:HA	4:DG:238:ILE:HG12	2.00	0.43
3:DJ:101:TRP:O	3:DJ:105:HIS:N	2.52	0.43
4:DK:4:CYS:SG	4:DK:134:GLY:N	2.92	0.43
4:DK:161:TYR:HB3	4:DK:164:LYS:NZ	2.34	0.43
4:DK:229:ARG:NH1	4:DK:367:ASP:OD1	2.52	0.43
4:DK:252:LEU:HD12	4:DK:253:THR:N	2.33	0.43
3:DL:70:PRO:HA	3:DL:73:MET:HE2	1.99	0.43
3:DL:257:MET:HE3	3:DL:368:ILE:HG23	2.00	0.43
8:Da:57:PHE:CE2	11:Fh:387:TYR:HE2	2.37	0.43
10:E1:28:ARG:HE	10:E1:29:ASN:H	1.66	0.43
3:EB:31:ASP:OD1	3:EB:35:THR:N	2.52	0.43
4:EC:229:ARG:NH2	4:EC:367:ASP:H	2.16	0.43
4:EC:386:GLU:HA	4:EC:389:ALA:HB3	2.01	0.43
3:ED:267:MET:HA	3:ED:268:PRO:HD3	1.88	0.43
3:ED:312:THR:OG1	3:ED:370:ASN:HB3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EE:69:ASP:OD1	4:EE:70:LEU:N	2.51	0.43
4:EE:265:ILE:HA	4:EE:267:PHE:CE2	2.53	0.43
4:EG:21:TRP:CE3	4:EG:24:TYR:HD2	2.37	0.43
4:EG:66:VAL:HG12	4:EG:68:VAL:HG13	2.01	0.43
3:EH:276:ARG:HB3	13:G2:397:CYS:HA	1.99	0.43
4:EI:90:GLU:HG2	4:EI:121:ARG:NH2	2.34	0.43
3:EJ:357:PRO:HB3	3:EJ:362:LYS:HA	2.00	0.43
3:EJ:406:MET:O	3:EJ:409:THR:OG1	2.28	0.43
3:EL:144:GLY:N	39:EL:501:GTP:O2B	2.50	0.43
3:EL:193:VAL:HG23	3:EL:264:HIS:CD2	2.54	0.43
11:F2:360:GLN:O	11:F2:364:ILE:HD12	2.19	0.43
11:F2:431:LYS:CG	11:F2:435:ARG:HH12	2.31	0.43
11:F3:232:LEU:O	11:F3:236:ILE:HG23	2.19	0.43
11:F4:101:LEU:O	11:F4:104:ARG:HG2	2.19	0.43
11:F5:188:LEU:O	11:F5:192:LEU:HG	2.19	0.43
11:F5:322:GLU:O	11:F5:326:GLU:OE1	2.37	0.43
11:F6:140:ARG:HD3	11:Fb:144:GLN:HG2	2.01	0.43
11:F6:210:ASN:HA	11:F6:213:LYS:HD3	1.99	0.43
11:F8:458:LYS:HA	11:F8:458:LYS:HD2	1.71	0.43
4:FA:10:GLY:O	4:FA:14:VAL:HG13	2.19	0.43
4:FC:5:ILE:HD13	4:FC:64:ARG:HB3	2.00	0.43
3:FD:8:GLN:NE2	3:FD:17:GLY:HA3	2.34	0.43
3:FD:101:TRP:HB2	3:FD:184:ASN:HD22	1.83	0.43
4:FE:117:LEU:O	4:FE:121:ARG:HG2	2.18	0.43
3:FF:406:MET:O	3:FF:409:THR:OG1	2.22	0.43
4:FG:119:LEU:HB3	4:FG:123:ARG:NH2	2.34	0.43
3:FJ:172:SER:OG	3:FJ:205:GLU:OE2	2.17	0.43
4:FK:150:ALA:HA	4:FK:153:LEU:HB2	2.01	0.43
4:FK:176:GLN:NE2	4:FK:207:GLU:OE2	2.52	0.43
4:FK:285:GLN:NE2	4:FK:286:LEU:O	2.52	0.43
4:FK:390:ARG:HA	4:FK:393:HIS:CD2	2.54	0.43
3:FL:161:ASP:O	3:FL:251:ARG:NH2	2.52	0.43
11:Fa:153:LYS:HB2	11:Fa:153:LYS:HE2	1.90	0.43
11:Fb:441:LEU:HD12	11:Fb:442:GLN:N	2.34	0.43
11:Fg:206:LEU:HD12	11:Fg:206:LEU:O	2.17	0.43
11:Fh:385:LYS:HD3	11:Fh:385:LYS:HA	1.72	0.43
11:Fi:248:HIS:O	11:Fi:252:ARG:HD3	2.19	0.43
13:G1:422:TYR:HD1	13:G1:507:ASP:O	2.01	0.43
13:G2:34:ARG:HE	13:G2:39:VAL:HG21	1.83	0.43
13:G2:497:GLU:OE1	13:G2:498:VAL:N	2.52	0.43
13:G3:210:ASP:HB3	13:G3:213:THR:HG23	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:G3:281:ARG:NH1	13:G3:282:ASN:H	2.17	0.43
14:G4:566:PHE:HE1	14:G4:585:ILE:HB	1.84	0.43
14:G5:367:LYS:HA	14:G5:367:LYS:HD3	1.69	0.43
14:G6:129:THR:OG1	14:G6:132:ARG:NH1	2.47	0.43
14:G6:399:GLU:O	14:G6:402:SER:OG	2.28	0.43
4:GA:73:THR:OG1	4:GA:74:VAL:N	2.52	0.43
4:GA:304:LYS:N	4:GA:304:LYS:HD2	2.33	0.43
3:GB:234:SER:O	3:GB:238:THR:HG23	2.19	0.43
3:GB:249:ASP:HB3	3:GB:252:LYS:HG2	2.00	0.43
3:GD:65:LEU:HD21	3:GD:73:MET:HG3	2.00	0.43
3:GD:414:ASN:O	3:GD:418:LEU:HG	2.19	0.43
4:GG:266:HIS:O	4:GG:268:PRO:HD3	2.18	0.43
4:GI:49:PHE:HB2	4:GI:53:PHE:HB2	2.01	0.43
3:GJ:259:PRO:HA	4:GK:404:PHE:CE1	2.53	0.43
3:GJ:323:MET:HE3	4:GK:224:TYR:CD1	2.54	0.43
15:H2:302:ASN:O	15:H2:306:ARG:HG2	2.19	0.43
15:H6:283:PRO:HA	15:H6:300:PHE:CE2	2.54	0.43
3:HD:19:LYS:NZ	3:HD:223:GLY:O	2.52	0.43
4:HE:279:GLU:O	4:HE:282:TYR:HB3	2.19	0.43
4:HE:329:ASN:OD1	4:HE:330:ALA:N	2.52	0.43
4:HG:3:GLU:CD	4:HG:131:GLY:H	2.26	0.43
4:HG:160:ASP:OD1	4:HG:161:TYR:N	2.52	0.43
3:HH:176:SER:O	3:HH:178:THR:N	2.52	0.43
3:HH:217:LEU:O	3:HH:219:THR:N	2.52	0.43
4:HI:161:TYR:HB3	4:HI:164:LYS:NZ	2.34	0.43
4:HI:165:SER:C	4:HI:166:LYS:HD2	2.44	0.43
4:HI:176:GLN:NE2	4:HI:177:VAL:HG23	2.34	0.43
3:HJ:12:CYS:HA	3:HJ:15:GLN:OE1	2.18	0.43
3:HJ:322:SER:HB3	3:HJ:325:GLU:OE1	2.19	0.43
3:HL:6:HIS:HE1	3:HL:8:GLN:HB2	1.84	0.43
3:HL:40:SER:HB2	3:HL:43:GLN:CD	2.44	0.43
3:HL:41:ASP:HA	3:HL:44:LEU:HD12	2.00	0.43
3:HL:288:GLU:O	3:HL:292:GLN:N	2.45	0.43
4:IA:346:TRP:CH2	4:IA:435:VAL:HA	2.54	0.43
4:IA:414:GLU:HG2	4:IA:417:GLU:OE1	2.19	0.43
3:IB:405:GLU:OE1	3:IB:405:GLU:N	2.45	0.43
4:IC:145:THR:OG1	39:IC:501:GTP:O1B	2.36	0.43
4:IC:168:GLU:HB2	4:IC:201:ALA:HA	2.01	0.43
3:ID:41:ASP:O	3:ID:45:GLU:N	2.51	0.43
3:ID:217:LEU:O	3:ID:219:THR:N	2.51	0.43
3:ID:282:ARG:HE	3:ID:288:GLU:CD	2.27	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:IE:212:ILE:HA	4:IE:215:ARG:HG2	2.00	0.43
3:IF:317:PHE:HB3	3:IF:321:MET:HE3	2.01	0.43
3:IJ:69:GLU:CD	3:IJ:71:GLY:H	2.27	0.43
3:IJ:197:ASP:OD1	3:IJ:198:GLU:N	2.52	0.43
3:IJ:309:ARG:HH22	3:IJ:344:TRP:HZ3	1.66	0.43
3:IL:325:GLU:O	3:IL:329:GLN:HG2	2.19	0.43
19:J2:149:TRP:O	19:J2:153:ILE:HD12	2.19	0.43
19:J3:183:ALA:O	19:J3:187:GLU:N	2.52	0.43
4:JC:174:ALA:HB3	4:JC:177:VAL:O	2.18	0.43
3:JD:299:MET:HE2	3:JD:303:CYS:C	2.43	0.43
4:JE:8:HIS:CE1	4:JE:65:ALA:HB1	2.54	0.43
4:JE:203:MET:CE	4:JE:267:PHE:HB3	2.47	0.43
4:JE:212:ILE:HG13	4:JE:215:ARG:NH2	2.34	0.43
3:JH:5:VAL:HG22	3:JH:62:ARG:HB3	2.01	0.43
3:JH:28:HIS:CE1	3:JH:241:ARG:HD3	2.54	0.43
4:JI:252:LEU:HD12	4:JI:253:THR:N	2.33	0.43
4:JI:421:ALA:HA	4:JI:424:ASP:HB2	2.01	0.43
3:JJ:51:TYR:CD1	3:JJ:61:PRO:HA	2.53	0.43
3:JJ:182:PRO:HB2	3:JJ:388:MET:CE	2.48	0.43
3:JJ:378:PHE:HA	3:JJ:381:ILE:HG22	2.00	0.43
3:JJ:394:PHE:HA	3:JJ:397:TRP:HZ3	1.83	0.43
4:JK:139:HIS:CD2	4:JK:170:ALA:HB2	2.54	0.43
4:JK:368:LEU:HD23	4:JK:368:LEU:H	1.84	0.43
3:JL:152:ILE:O	3:JL:156:ARG:HG2	2.19	0.43
21:K2:366:LYS:HA	21:K2:369:GLN:OE1	2.19	0.43
4:KA:11:GLN:HB2	4:KA:74:VAL:HG21	2.00	0.43
4:KA:331:ALA:O	4:KA:335:ILE:HG12	2.18	0.43
4:KE:16:ILE:HG22	4:KE:228:ASN:OD1	2.19	0.43
3:KF:324:LYS:HG3	4:KG:221:ARG:NH1	2.33	0.43
4:KI:53:PHE:HB3	4:KI:61:HIS:HB3	2.01	0.43
4:KI:192:HIS:CE1	4:KI:193:THR:HG23	2.54	0.43
4:KI:254:GLU:OE1	4:KI:254:GLU:N	2.48	0.43
4:KK:251:ASP:HB3	4:KK:254:GLU:OE1	2.19	0.43
3:KL:424:GLN:HE22	31:R3:121:ILE:HD12	1.83	0.43
22:L2:62:PHE:HB3	3:LD:410:GLU:OE2	2.19	0.43
22:L4:77:LYS:HD2	22:L4:77:LYS:HA	1.82	0.43
4:LA:438:ASP:HA	3:LB:391:ARG:HH12	1.84	0.43
3:LB:2:ARG:HB3	3:LB:131:GLN:NE2	2.33	0.43
3:LB:350:LYS:HE3	4:LC:181:VAL:H	1.84	0.43
3:LB:427:ASP:OD1	24:M1:67:ARG:HD3	2.18	0.43
4:LC:45:GLY:HA2	4:LC:49:PHE:HE1	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:LC:213:CYS:O	4:LC:218:ASP:N	2.52	0.43
3:LD:36:TYR:CE2	3:LD:44:LEU:HD13	2.53	0.43
3:LD:319:GLY:HA2	3:LD:357:PRO:HG3	2.00	0.43
3:LF:392:LYS:HD2	3:LF:392:LYS:O	2.19	0.43
4:LG:272:TYR:CE1	4:LG:374:ALA:HB1	2.54	0.43
4:LI:9:VAL:HG22	4:LI:146:GLY:HA2	2.01	0.43
4:LI:36:MET:HG3	4:LI:41:THR:OG1	2.19	0.43
4:LI:252:LEU:HA	4:LI:255:PHE:CD2	2.54	0.43
3:LL:40:SER:HB2	3:LL:43:GLN:CD	2.44	0.43
24:M2:48:LYS:HZ1	24:M2:92:TYR:HB3	1.84	0.43
24:M2:59:PRO:HA	24:M2:62:GLU:CB	2.49	0.43
3:MB:324:LYS:H	3:MB:324:LYS:HG2	1.68	0.43
4:MC:137:ILE:O	4:MC:169:PHE:N	2.50	0.43
3:MD:6:HIS:HD2	3:MD:134:GLN:HG2	1.84	0.43
4:ME:301:GLN:OE1	4:ME:301:GLN:N	2.51	0.43
3:MF:350:LYS:HE3	4:MG:180:ALA:HA	2.01	0.43
4:MI:420:GLU:HA	4:MI:423:GLU:OE2	2.19	0.43
3:MJ:316:VAL:HG22	3:MJ:352:ALA:HB3	2.00	0.43
4:MK:139:HIS:HE1	4:MK:168:GLU:HB3	1.84	0.43
3:ML:32:PRO:O	3:ML:83:GLN:NE2	2.45	0.43
26:N3:68:LYS:CG	26:N3:69:ASP:H	2.30	0.43
3:NB:346:PRO:HD2	4:NC:398:MET:CE	2.49	0.43
4:NC:362:VAL:HA	4:NC:368:LEU:HD11	2.01	0.43
4:NE:229:ARG:NH1	4:NE:233:GLN:HB2	2.34	0.43
3:NF:135:LEU:O	3:NF:167:PHE:HB3	2.19	0.43
3:NF:216:LYS:O	3:NF:276:ARG:NH2	2.52	0.43
3:NF:392:LYS:HD2	3:NF:392:LYS:O	2.18	0.43
4:NG:119:LEU:HD23	4:NG:122:ILE:HD11	1.99	0.43
4:NI:152:LEU:HG	4:NI:156:ARG:NH1	2.34	0.43
4:NK:216:ASN:OD1	4:NK:217:LEU:N	2.52	0.43
4:NK:260:VAL:O	3:NL:397:TRP:HH2	2.02	0.43
4:NK:345:ASP:OD1	4:NK:345:ASP:N	2.51	0.43
3:NL:91:VAL:HG11	3:NL:116:VAL:HG12	2.01	0.43
3:NL:130:LEU:HD13	3:NL:133:PHE:CE1	2.54	0.43
28:O2:45:ASP:N	28:O2:45:ASP:OD1	2.52	0.43
3:OB:132:GLY:HA3	3:OB:163:ILE:H	1.84	0.43
3:OB:324:LYS:HD3	4:OC:210:TYR:HE1	1.84	0.43
3:OD:206:ALA:O	3:OD:210:ILE:HG12	2.19	0.43
3:OF:312:THR:OG1	3:OF:370:ASN:HB3	2.19	0.43
4:OG:88:HIS:CD2	4:PG:280:LYS:HZ3	2.37	0.43
4:OG:216:ASN:ND2	4:OG:275:VAL:O	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:OH:269:GLY:N	3:OH:367:PHE:O	2.52	0.43
3:OH:309:ARG:O	3:OH:371:SER:OG	2.26	0.43
4:OI:145:THR:HG23	39:OI:501:GTP:O3B	2.18	0.43
4:OI:256:GLN:O	4:OI:260:VAL:HG12	2.19	0.43
4:OI:319:TYR:HB2	4:OI:355:ILE:HD13	2.01	0.43
27:P:149:GLN:HA	27:P:152:ARG:HE	1.84	0.43
29:P1:263:GLY:HA2	29:P1:277:LYS:HG2	2.01	0.43
29:P2:297:THR:O	29:P2:305:PHE:HB2	2.18	0.43
29:P3:167:SER:HG	29:P3:217:ASP:CG	2.27	0.43
4:PA:321:GLY:HA3	4:PA:372:GLN:O	2.19	0.43
3:PB:182:PRO:HA	3:PB:381:ILE:HD11	2.01	0.43
4:PC:88:HIS:CE1	4:PC:121:ARG:HH22	2.36	0.43
4:PC:196:GLU:HG2	4:PC:197:HIS:ND1	2.34	0.43
4:PC:229:ARG:NH1	4:PC:233:GLN:HB2	2.33	0.43
3:PD:299:MET:HE2	3:PD:303:CYS:C	2.44	0.43
4:PE:280:LYS:HD2	4:PE:280:LYS:HA	1.74	0.43
3:PF:378:PHE:CE1	3:PF:419:VAL:HA	2.54	0.43
4:PG:163:LYS:HA	4:PG:163:LYS:HD3	1.78	0.43
4:PG:280:LYS:O	4:PG:284:GLU:HB2	2.19	0.43
3:PH:261:PRO:HD3	4:PI:406:HIS:CG	2.54	0.43
3:PH:272:PRO:HA	3:PH:292:GLN:OE1	2.18	0.43
3:PH:331:LEU:HD11	4:PI:176:GLN:OE1	2.19	0.43
4:PI:99:ALA:HB3	4:PI:144:GLY:O	2.18	0.43
4:PI:116:ASP:N	4:PI:116:ASP:OD1	2.50	0.43
3:PJ:80:PRO:O	3:PJ:83:GLN:NE2	2.44	0.43
3:PJ:87:PRO:HA	3:PJ:90:PHE:CD2	2.54	0.43
4:PK:81:GLY:O	4:PK:84:ARG:NH1	2.52	0.43
4:PK:141:PHE:HB2	4:PK:173:PRO:HD3	2.01	0.43
4:PK:141:PHE:HE2	4:PK:203:MET:SD	2.42	0.43
4:PK:154:MET:HE1	4:PK:197:HIS:HB2	2.01	0.43
4:PK:316:CYS:N	4:PK:378:LEU:O	2.41	0.43
3:PL:206:ALA:O	3:PL:210:ILE:HG12	2.19	0.43
4:PM:105:ARG:O	4:PM:109:THR:OG1	2.36	0.43
4:PM:204:VAL:HG22	4:PM:209:ILE:HD11	2.00	0.43
30:Q2:1425:LYS:HE2	30:Q2:1509:ASP:O	2.19	0.43
30:Q2:1440:LEU:HD22	30:Q2:1514:PHE:CE1	2.54	0.43
30:Q2:1498:ASP:OD1	30:Q2:1499:LYS:N	2.52	0.43
30:Q3:1383:ILE:HG13	30:Q3:1384:VAL:HG13	2.01	0.43
3:QB:47:ILE:HG12	3:QB:59:TYR:CD2	2.53	0.43
3:QB:238:THR:O	3:QB:242:PHE:N	2.43	0.43
4:QC:352:LYS:NZ	3:QD:178:THR:HA	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QD:41:ASP:HB3	37:YF:20:GLN:HE21	1.84	0.43
3:QD:183:TYR:N	3:QD:388:MET:HE1	2.33	0.43
4:QE:263:PRO:O	4:QE:264:ARG:HB2	2.18	0.43
3:QF:240:LEU:HD22	3:QF:248:ALA:HB1	2.01	0.43
4:QG:83:TYR:HB3	4:QG:86:LEU:HD12	2.00	0.43
4:QG:229:ARG:NH1	4:QG:233:GLN:HB2	2.34	0.43
4:QG:399:TYR:OH	4:QG:415:GLU:HB2	2.18	0.43
4:QI:154:MET:HA	4:QI:157:LEU:HG	2.01	0.43
31:R2:138:ASN:HB3	31:R2:142:ARG:HH12	1.84	0.43
3:RB:32:PRO:O	3:RB:83:GLN:NE2	2.48	0.43
3:RB:152:ILE:O	3:RB:156:ARG:HG2	2.19	0.43
4:RC:12:ALA:O	39:RC:501:GTP:N1	2.51	0.43
4:RC:88:HIS:CE1	4:SC:280:LYS:HZ3	2.37	0.43
4:RC:110:ILE:O	4:RC:114:ILE:HG12	2.19	0.43
4:RE:186:ASN:OD1	4:RE:187:SER:N	2.52	0.43
4:RE:389:ALA:HA	4:RE:392:ASP:OD2	2.18	0.43
3:RF:166:THR:OG1	3:RF:198:GLU:O	2.26	0.43
3:RF:302:ALA:CB	3:RF:377:LEU:HD11	2.49	0.43
3:RH:130:LEU:HB2	3:RH:162:ARG:NH1	2.33	0.43
4:RK:35:GLN:HG2	4:RK:59:GLY:O	2.19	0.43
4:RK:387:ALA:HA	4:RK:390:ARG:CZ	2.49	0.43
3:SB:152:ILE:O	3:SB:156:ARG:HG2	2.18	0.43
3:SB:172:SER:OG	3:SB:205:GLU:OE2	2.25	0.43
4:SC:306:ASP:OD2	4:SC:309:HIS:ND1	2.52	0.43
4:SE:180:ALA:HB3	4:SE:183:GLU:HB2	1.99	0.43
3:SF:117:LEU:HA	3:SF:120:VAL:HG22	2.01	0.43
4:SG:50:ASN:O	4:SG:64:ARG:NH1	2.51	0.43
4:SG:251:ASP:HB3	4:SG:254:GLU:OE1	2.19	0.43
4:SG:258:ASN:HA	3:SH:394:PHE:CE2	2.54	0.43
3:SH:12:CYS:HA	39:SH:501:GTP:HN22	1.83	0.43
4:SI:216:ASN:OD1	4:SI:217:LEU:N	2.52	0.43
4:SK:1:MET:SD	4:SK:2:ARG:N	2.92	0.43
4:SK:28:HIS:HB2	4:SK:30:ILE:HG12	2.01	0.43
4:SK:178:SER:OG	4:SK:180:ALA:O	2.37	0.43
4:SK:329:ASN:HA	4:SK:332:ILE:HG12	2.01	0.43
4:SM:306:ASP:OD2	4:SM:309:HIS:N	2.52	0.43
32:T:358:ARG:NH2	32:T:360:LEU:O	2.34	0.43
4:TC:66:VAL:HG12	4:TC:68:VAL:HG13	2.01	0.43
4:TC:240:ALA:HB1	4:TC:320:ARG:HE	1.84	0.43
4:TG:50:ASN:OD1	4:TG:51:THR:N	2.51	0.43
4:TG:318:LEU:O	4:TG:375:VAL:HA	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:TI:203:MET:SD	4:TI:203:MET:N	2.92	0.43
3:TJ:172:SER:OG	3:TJ:205:GLU:OE2	2.29	0.43
4:TM:117:LEU:O	4:TM:121:ARG:HG2	2.19	0.43
4:TM:187:SER:O	4:TM:190:THR:OG1	2.25	0.43
3:TN:39:ASP:OD1	3:TN:39:ASP:N	2.52	0.43
3:TN:226:ASN:HA	3:TN:229:VAL:HG22	2.01	0.43
33:U:151:GLN:HA	33:U:154:MET:HG3	2.01	0.43
33:U:200:ASN:OD1	33:U:207:ARG:NH2	2.52	0.43
4:UA:11:GLN:HB2	4:UA:74:VAL:HG21	2.00	0.43
3:UB:318:ARG:HD3	3:UB:358:PRO:HG3	2.00	0.43
3:UB:324:LYS:HG3	4:UC:221:ARG:NH1	2.34	0.43
4:UC:22:GLU:O	4:UC:26:LEU:HD23	2.19	0.43
3:UD:73:MET:HE1	3:UD:92:PHE:CG	2.53	0.43
3:UD:156:ARG:NH1	3:UD:195:ASN:O	2.52	0.43
4:UE:51:THR:HG23	4:UE:52:PHE:HD2	1.83	0.43
4:UG:318:LEU:O	4:UG:375:VAL:HA	2.19	0.43
4:UG:333:ALA:HA	4:UG:336:LYS:HD2	2.01	0.43
3:UH:235:GLY:O	3:UH:238:THR:OG1	2.27	0.43
4:UI:230:LEU:O	4:UI:234:ILE:HG12	2.19	0.43
4:UK:115:VAL:HA	4:UK:118:VAL:HG22	2.01	0.43
4:UK:196:GLU:HG2	4:UK:197:HIS:ND1	2.34	0.43
4:UK:201:ALA:HB3	4:UK:267:PHE:HD1	1.84	0.43
4:UK:230:LEU:O	4:UK:234:ILE:HG12	2.19	0.43
4:UK:363:VAL:HG13	4:UK:366:GLY:HA3	2.00	0.43
3:UL:30:ILE:HG13	3:UL:36:TYR:CD1	2.47	0.43
4:VA:89:PRO:HD2	4:WA:280:LYS:NZ	2.34	0.43
3:VB:3:GLU:OE2	3:VB:127:CYS:HB2	2.19	0.43
3:VB:4:ILE:HB	3:VB:50:TYR:CE1	2.54	0.43
4:VC:54:SER:N	4:VC:62:VAL:O	2.52	0.43
4:VC:103:TYR:HB2	4:VC:186:ASN:HB2	2.01	0.43
4:VC:319:TYR:HE2	4:VC:328:VAL:HG13	1.84	0.43
3:VD:12:CYS:O	3:VD:15:GLN:N	2.49	0.43
4:VE:139:HIS:HE1	4:VE:168:GLU:HB3	1.84	0.43
4:VG:320:ARG:HD3	4:VG:360:PRO:HG3	2.01	0.43
4:VI:52:PHE:HZ	4:VI:239:THR:HB	1.84	0.43
4:VI:90:GLU:HG2	4:VI:121:ARG:CZ	2.48	0.43
4:VI:346:TRP:N	4:VI:346:TRP:CD1	2.86	0.43
3:VJ:40:SER:HB3	3:VJ:42:LEU:HD23	2.01	0.43
3:VJ:149:THR:HG21	3:VJ:188:SER:HA	2.01	0.43
4:VK:192:HIS:CE1	4:VK:193:THR:HG23	2.54	0.43
4:WA:422:ARG:HA	4:WA:422:ARG:HD2	1.80	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WC:146:GLY:N	39:WC:501:GTP:O2B	2.52	0.43
3:WD:152:ILE:HG22	3:WD:164:MET:HE2	2.01	0.43
4:WE:50:ASN:OD1	4:WE:51:THR:N	2.52	0.43
3:WF:150:LEU:C	3:WF:154:LYS:HZ3	2.27	0.43
3:WF:192:LEU:O	3:WF:196:THR:HG22	2.19	0.43
4:WG:105:ARG:O	4:WG:109:THR:OG1	2.27	0.43
3:WH:156:ARG:CZ	3:WH:164:MET:HE3	2.49	0.43
3:WJ:249:ASP:O	3:WJ:252:LYS:HB3	2.18	0.43
3:WJ:391:ARG:C	3:WJ:392:LYS:HG3	2.43	0.43
3:WJ:392:LYS:HD2	3:WJ:392:LYS:O	2.19	0.43
4:WK:101:ASN:HA	4:WK:144:GLY:HA2	2.01	0.43
4:WK:318:LEU:O	4:WK:375:VAL:HA	2.19	0.43
34:XA:122:PRO:HG2	34:XA:124:ARG:HH12	1.84	0.43
34:XC:39:ASP:O	34:XC:43:GLN:HA	2.19	0.43
34:XD:89:PHE:HB2	34:XD:156:ILE:HD13	2.01	0.43
34:XE:35:LYS:C	34:XE:36:ARG:HD3	2.44	0.43
34:XF:87:PHE:HE1	34:XF:156:ILE:HG23	1.84	0.43
34:XF:177:LEU:HB3	34:XF:181:PHE:HB3	2.01	0.43
35:XI:180:ILE:HG12	35:XI:184:PHE:CZ	2.54	0.43
35:XJ:73:SER:OG	35:XJ:74:LYS:N	2.51	0.43
35:XL:55:THR:O	35:XL:58:LYS:HG3	2.19	0.43
35:XM:204:ASN:O	35:XM:208:LEU:HG	2.18	0.43
36:Y:78:VAL:O	36:Y:82:GLU:HG3	2.19	0.43
37:YA:140:LEU:HA	37:YA:143:ILE:HD12	2.00	0.43
37:YB:161:LYS:O	37:YB:165:HIS:NE2	2.52	0.43
37:YF:13:GLN:HE22	37:YF:16:LYS:HE3	1.83	0.43
37:YH:41:ARG:NH1	37:YH:44:SER:H	2.17	0.43
37:YH:124:HIS:O	37:YH:124:HIS:ND1	2.50	0.43
37:YJ:41:ARG:O	37:YJ:133:HIS:ND1	2.52	0.43
37:YK:86:LEU:HB3	37:YK:87:HIS:H	1.51	0.43
37:YL:48:GLN:OE1	37:YL:51:SER:OG	2.37	0.43
37:YL:121:VAL:HG12	37:YL:138:VAL:HB	2.00	0.43
37:YV:97:LEU:O	37:YV:101:LYS:HE2	2.19	0.43
37:YW:7:SER:O	37:YW:11:ILE:HG12	2.19	0.43
37:YW:59:ASN:HB2	37:YW:62:HIS:CE1	2.53	0.43
36:Z:315:LEU:O	36:Z:318:GLU:HG3	2.19	0.43
1:A:168:ARG:HA	1:A:171:LYS:HG2	2.01	0.42
2:A2:98:LEU:HD23	2:A2:246:LEU:HD21	2.01	0.42
2:A3:293:GLU:HA	2:A3:296:ILE:HD12	2.01	0.42
2:A3:397:ILE:O	2:A3:399:PRO:HD3	2.18	0.42
3:AB:152:ILE:HD12	3:AB:195:ASN:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:375:GLN:HA	3:AB:378:PHE:CE1	2.54	0.42
4:AC:402:ARG:NH2	35:XH:185:LYS:HE2	2.33	0.42
3:AD:31:ASP:OD1	3:AD:35:THR:N	2.52	0.42
3:AD:192:LEU:O	3:AD:196:THR:HG22	2.19	0.42
3:AD:249:ASP:O	3:AD:253:LEU:HG	2.19	0.42
4:AE:298:PRO:HG3	26:N2:74:ARG:CG	2.49	0.42
4:AE:427:ALA:HA	4:AE:430:LYS:HG2	2.01	0.42
3:AF:12:CYS:HA	3:AF:15:GLN:OE1	2.19	0.42
3:AF:239:CYS:SG	3:AF:316:VAL:HG11	2.59	0.42
3:AH:332:ASN:O	3:AH:336:LYS:N	2.52	0.42
3:AJ:214:THR:HG21	3:AJ:273:LEU:HB3	2.00	0.42
4:AK:31:GLN:HE22	4:AK:37:PRO:HD3	1.84	0.42
4:AK:423:GLU:HA	4:AK:426:ALA:HB3	2.00	0.42
3:AL:12:CYS:HB3	39:AL:501:GTP:O4'	2.19	0.42
4:AM:206:ASN:OD1	4:AM:206:ASN:N	2.52	0.42
1:B:363:LEU:HA	1:B:366:GLN:HG3	2.00	0.42
5:B2:370:LEU:HD11	5:B2:374:GLN:HE21	1.83	0.42
5:B3:380:LYS:HD2	5:B3:383:THR:OG1	2.19	0.42
5:B4:55:TRP:CE3	5:B4:58:HIS:CE1	3.06	0.42
5:B6:373:ILE:O	5:B6:377:ILE:HG12	2.19	0.42
5:B7:39:ARG:HH22	5:B8:293:LEU:HD22	1.84	0.42
3:BB:269:GLY:O	3:BB:367:PHE:N	2.40	0.42
3:BD:77:ARG:HD3	3:BD:90:PHE:CE2	2.54	0.42
3:BD:315:ALA:HA	3:BD:367:PHE:HA	2.00	0.42
4:BE:47:ASP:O	4:BE:50:ASN:N	2.26	0.42
4:BE:272:TYR:HE1	4:BE:374:ALA:HB1	1.83	0.42
4:BG:71:GLU:OE1	4:BG:71:GLU:N	2.52	0.42
4:BG:208:ALA:HB2	4:BG:304:LYS:HE3	2.00	0.42
4:BG:260:VAL:HG23	4:BG:265:ILE:O	2.19	0.42
3:BJ:271:ALA:HB3	3:BJ:365:ALA:H	1.84	0.42
4:BK:152:LEU:O	4:BK:155:GLU:HG3	2.19	0.42
4:BK:192:HIS:CE1	4:BK:193:THR:HG23	2.54	0.42
3:BL:230:SER:HA	3:BL:233:MET:SD	2.59	0.42
6:C:43:TYR:CZ	6:C:56:MET:SD	3.12	0.42
7:C3:309:LEU:HA	7:C3:312:GLN:NE2	2.33	0.42
7:C8:340:PHE:HE1	7:C8:477:ARG:HG3	1.84	0.42
4:CC:7:ILE:O	4:CC:138:PHE:N	2.45	0.42
4:CC:22:GLU:HG2	4:CC:83:TYR:HE2	1.84	0.42
4:CC:311:LYS:N	4:CC:382:THR:OG1	2.50	0.42
3:CD:180:VAL:HA	3:CD:183:TYR:CD1	2.53	0.42
4:CE:139:HIS:CD2	4:CE:170:ALA:HB2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CH:72:THR:O	3:CH:75:SER:OG	2.36	0.42
3:CH:216:LYS:HZ2	14:G5:306:VAL:HG22	1.84	0.42
3:CH:330:MET:HE2	3:CH:349:VAL:HG12	2.00	0.42
4:CI:85:GLN:HG2	4:CI:86:LEU:HD22	2.01	0.42
4:CI:88:HIS:CE1	4:DG:280:LYS:HZ3	2.37	0.42
4:CI:149:PHE:O	4:CI:153:LEU:HD23	2.19	0.42
4:CI:217:LEU:HB3	4:CI:219:ILE:HG12	2.00	0.42
3:CJ:52:ASN:CG	3:CJ:62:ARG:HD3	2.43	0.42
3:CJ:105:HIS:O	3:CJ:150:LEU:HD21	2.19	0.42
4:CK:145:THR:OG1	39:CK:501:GTP:O1B	2.33	0.42
3:CL:139:LEU:N	3:CL:168:SER:OG	2.52	0.42
3:CL:305:PRO:HA	3:CL:373:ALA:HB2	2.00	0.42
4:CM:154:MET:HA	4:CM:157:LEU:HG	2.01	0.42
4:CM:260:VAL:HG22	4:CM:262:TYR:O	2.19	0.42
4:CM:377:MET:SD	4:CM:379:SER:OG	2.74	0.42
4:CM:389:ALA:O	4:CM:393:HIS:HD2	2.02	0.42
8:D2:147:VAL:HG12	8:D2:151:ILE:HD11	2.00	0.42
8:D2:251:ALA:H	8:D3:370:ARG:CZ	2.32	0.42
8:D3:424:PHE:HA	8:D3:427:ARG:CZ	2.49	0.42
8:D4:276:VAL:HG12	8:D4:280:LYS:NZ	2.34	0.42
8:D6:356:ARG:NH1	8:D7:228:CYS:HB3	2.34	0.42
8:D9:103:VAL:HA	8:D9:106:ARG:CZ	2.49	0.42
8:D9:290:ALA:O	8:D9:293:LEU:HG	2.18	0.42
4:DA:2:ARG:NH1	4:DA:241:SER:O	2.52	0.42
4:DC:2:ARG:HA	4:DC:133:GLN:NE2	2.34	0.42
4:DC:256:GLN:O	4:DC:260:VAL:HG12	2.18	0.42
3:DD:183:TYR:CG	3:DD:388:MET:HE3	2.54	0.42
4:DE:90:GLU:HG2	4:DE:121:ARG:NH2	2.34	0.42
4:DE:100:ALA:C	4:DE:102:ASN:H	2.27	0.42
4:DE:320:ARG:HH21	4:DE:358:GLN:HG3	1.85	0.42
3:DF:47:ILE:HG12	3:DF:59:TYR:CE2	2.54	0.42
3:DF:378:PHE:HA	3:DF:381:ILE:HG22	2.01	0.42
4:DG:83:TYR:HB3	4:DG:86:LEU:HD12	2.00	0.42
3:DH:3:GLU:HG2	3:DH:130:LEU:HD13	2.01	0.42
3:DH:40:SER:HB2	3:DH:43:GLN:CD	2.44	0.42
3:DH:384:GLN:O	3:DH:388:MET:HG2	2.20	0.42
4:DI:260:VAL:O	3:DJ:397:TRP:HH2	2.02	0.42
3:DJ:6:HIS:HD1	3:DJ:63:ALA:HB1	1.84	0.42
3:DL:12:CYS:SG	39:DL:501:GTP:H5'	2.59	0.42
9:E:777:ILE:HD12	9:E:777:ILE:H	1.84	0.42
4:EA:287:SER:O	4:EA:291:ILE:HG12	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EC:203:MET:N	4:EC:203:MET:SD	2.92	0.42
4:EC:272:TYR:CE1	4:EC:374:ALA:HB1	2.53	0.42
3:ED:394:PHE:HA	3:ED:397:TRP:HZ3	1.83	0.42
4:EE:196:GLU:OE1	4:EE:196:GLU:N	2.44	0.42
4:EG:21:TRP:HE1	4:EG:65:ALA:HB3	1.83	0.42
4:EG:187:SER:O	4:EG:191:THR:HG23	2.19	0.42
3:EH:132:GLY:HA3	3:EH:163:ILE:H	1.84	0.42
3:EH:172:SER:OG	3:EH:205:GLU:OE2	2.20	0.42
3:EH:257:MET:O	3:EH:259:PRO:HD3	2.19	0.42
4:EI:221:ARG:HG3	15:H5:296:TYR:HB2	2.01	0.42
4:EI:235:VAL:HA	4:EI:238:ILE:HG12	1.99	0.42
3:EJ:111:GLU:HG2	3:EJ:112:LEU:HD22	2.01	0.42
3:EJ:252:LYS:HD2	4:EK:101:ASN:ND2	2.34	0.42
3:EJ:267:MET:O	3:EJ:368:ILE:HD12	2.19	0.42
3:EJ:376:GLU:H	3:EJ:376:GLU:CD	2.27	0.42
4:EK:433:GLU:O	4:EK:437:VAL:HG23	2.19	0.42
3:EL:1:MET:HE1	3:EL:48:ASN:C	2.44	0.42
11:F1:413:GLN:HA	11:F1:416:LEU:HG	2.01	0.42
11:F3:105:ASN:HB3	11:Fl:443:LEU:HD11	2.01	0.42
11:F5:147:SER:OG	11:Fa:140:ARG:NH2	2.52	0.42
11:F5:226:GLN:O	11:F5:229:MET:HB3	2.19	0.42
11:F6:205:ASP:OD1	11:F6:205:ASP:N	2.50	0.42
11:F6:209:ASP:CG	11:F6:346:ARG:HE	2.27	0.42
11:F6:336:PHE:HB2	11:F6:476:PHE:CD2	2.54	0.42
11:F6:372:GLU:O	11:F6:375:ILE:HG22	2.19	0.42
4:FC:81:GLY:O	4:FC:84:ARG:NH1	2.52	0.42
4:FC:208:ALA:N	4:FC:304:LYS:HZ1	2.13	0.42
4:FC:320:ARG:HG2	4:FC:358:GLN:O	2.19	0.42
3:FD:7:LEU:HD13	3:FD:64:VAL:HB	2.00	0.42
3:FD:386:THR:O	3:FD:390:ARG:N	2.52	0.42
4:FE:185:TYR:CE2	4:FE:398:MET:HE1	2.54	0.42
3:FF:86:ARG:HD2	3:GF:281:TYR:CZ	2.54	0.42
4:FG:265:ILE:HA	4:FG:267:PHE:CE2	2.54	0.42
3:FH:271:ALA:HB3	3:FH:365:ALA:H	1.83	0.42
3:FJ:152:ILE:O	3:FJ:156:ARG:HG2	2.19	0.42
3:FJ:217:LEU:O	3:FJ:219:THR:N	2.50	0.42
3:FJ:378:PHE:CE1	3:FJ:419:VAL:HG22	2.54	0.42
3:FL:9:ALA:HB3	3:FL:135:LEU:HD11	2.00	0.42
11:Fa:162:ARG:O	11:Fa:311:ARG:NH2	2.52	0.42
11:Fa:313:ASN:HA	11:Fa:316:ARG:NE	2.34	0.42
11:Fa:373:ASN:HA	11:Fa:376:MET:HE3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Fb:123:ILE:HA	11:Fb:126:ASP:OD2	2.19	0.42
11:Fb:206:LEU:O	11:Fc:90:TYR:HB2	2.19	0.42
11:Fb:416:LEU:O	11:Fb:419:GLU:HG3	2.19	0.42
11:Fe:346:ARG:HA	11:Fe:346:ARG:HD2	1.70	0.42
11:Fh:198:ARG:O	11:Fh:201:ARG:HB3	2.19	0.42
11:Fi:184:VAL:C	11:Fi:187:PRO:HD2	2.44	0.42
11:Fj:434:LEU:O	11:Fj:438:GLN:HG2	2.19	0.42
11:Fk:153:LYS:HA	11:Fk:257:LYS:HZ1	1.83	0.42
11:Fk:252:ARG:O	11:Fk:255:GLU:HG2	2.19	0.42
11:Fl:318:ARG:HH21	11:Fl:319:GLU:HG3	1.83	0.42
11:Fm:159:GLU:HA	11:Fm:162:ARG:HE	1.83	0.42
12:G:285:ARG:HA	12:G:288:LEU:HD12	2.01	0.42
12:G:352:GLU:O	12:G:356:GLN:HG3	2.19	0.42
13:G1:42:ARG:NH2	13:G1:54:TYR:HB3	2.34	0.42
13:G1:248:ILE:HD11	13:G1:259:CYS:HB3	2.01	0.42
13:G2:258:GLU:OE1	13:G2:258:GLU:N	2.52	0.42
13:G2:489:ASP:OD1	13:G2:490:PHE:N	2.52	0.42
13:G3:118:ARG:NH1	13:G3:210:ASP:OD2	2.52	0.42
13:G3:190:THR:HG22	13:G3:194:LEU:HD23	2.00	0.42
14:G4:117:GLU:N	14:G4:128:GLY:O	2.41	0.42
14:G4:225:TYR:HB3	14:G4:255:LEU:HB2	2.00	0.42
14:G4:620:ILE:HD11	14:G4:697:LEU:HA	2.00	0.42
14:G4:698:ASN:OD1	14:G4:700:ARG:HG2	2.19	0.42
14:G5:254:PHE:CD1	14:G5:259:THR:HG23	2.54	0.42
14:G6:630:ASN:HD22	14:G6:668:PRO:HB2	1.84	0.42
4:GA:216:ASN:ND2	4:GA:275:VAL:HG23	2.33	0.42
4:GA:269:LEU:HD21	4:GA:301:GLN:HB3	2.00	0.42
4:GC:99:ALA:HB3	4:GC:144:GLY:O	2.19	0.42
4:GC:161:TYR:HB3	4:GC:164:LYS:NZ	2.34	0.42
4:GC:265:ILE:HD12	4:GC:432:TYR:CE1	2.54	0.42
3:GD:20:PHE:CZ	3:GD:24:ILE:HD11	2.54	0.42
3:GD:238:THR:HG21	3:GD:318:ARG:NH1	2.34	0.42
3:GD:273:LEU:H	3:GD:292:GLN:NE2	2.15	0.42
4:GE:324:VAL:HG21	3:GF:219:THR:HG22	2.01	0.42
3:GF:2:ARG:HG3	3:GF:131:GLN:NE2	2.34	0.42
3:GF:392:LYS:HD2	3:GF:392:LYS:O	2.19	0.42
4:GG:174:ALA:HB3	4:GG:177:VAL:O	2.19	0.42
4:GG:346:TRP:CD1	4:GG:346:TRP:N	2.87	0.42
3:GH:156:ARG:NH1	3:GH:195:ASN:HD22	2.07	0.42
4:GK:260:VAL:O	3:GL:397:TRP:HH2	2.02	0.42
15:H1:238:ASP:OD1	15:H1:239:GLY:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H3:37:ARG:HH11	15:H3:37:ARG:HG2	1.84	0.42
15:H3:314:ARG:C	15:H3:316:SER:H	2.27	0.42
15:H5:34:THR:O	15:H5:38:THR:HG23	2.19	0.42
15:H6:298:LEU:HD12	15:H6:298:LEU:HA	1.85	0.42
4:HA:132:LEU:HD13	4:HA:164:LYS:HE2	2.01	0.42
4:HC:336:LYS:NZ	4:HC:348:PRO:O	2.49	0.42
4:HC:423:GLU:HA	4:HC:426:ALA:HB3	2.01	0.42
3:HD:139:LEU:HD21	3:HD:170:VAL:HG22	2.01	0.42
3:HD:270:PHE:HD2	3:HD:273:LEU:HD21	1.84	0.42
3:HD:423:GLN:O	3:HD:427:ASP:N	2.41	0.42
3:HF:172:SER:OG	3:HF:205:GLU:OE2	2.20	0.42
3:HF:180:VAL:HG23	3:HF:183:TYR:CD2	2.53	0.42
3:HF:318:ARG:C	3:HF:321:MET:HE1	2.44	0.42
4:HI:50:ASN:OD1	4:HI:51:THR:N	2.52	0.42
4:HI:52:PHE:HE2	4:HI:243:ARG:HG3	1.84	0.42
4:HI:185:TYR:HA	4:HI:395:PHE:CE1	2.54	0.42
3:HJ:420:SER:O	3:HJ:424:GLN:HG2	2.19	0.42
4:HK:332:ILE:HD12	4:HK:335:ILE:HD12	2.01	0.42
4:IA:16:ILE:HG22	4:IA:228:ASN:OD1	2.19	0.42
3:IB:156:ARG:CZ	3:IB:164:MET:HE3	2.49	0.42
3:IB:254:ALA:O	3:IB:258:VAL:N	2.52	0.42
3:IB:313:VAL:HG23	3:IB:349:VAL:HA	2.01	0.42
4:IC:8:HIS:NE2	4:IC:21:TRP:HH2	2.17	0.42
4:IC:16:ILE:HG13	4:IC:17:GLY:N	2.33	0.42
4:IC:28:HIS:HB2	4:IC:30:ILE:HG12	2.01	0.42
4:IC:145:THR:HG23	39:IC:501:GTP:O3B	2.18	0.42
4:IC:377:MET:SD	4:IC:377:MET:N	2.92	0.42
4:IE:1:MET:CE	4:IE:2:ARG:H	2.32	0.42
4:IE:81:GLY:O	4:IE:84:ARG:NH1	2.52	0.42
4:IE:423:GLU:HA	4:IE:426:ALA:HB3	2.00	0.42
3:IF:269:GLY:O	3:IF:367:PHE:N	2.35	0.42
3:IH:282:ARG:NH2	3:IH:292:GLN:OE1	2.36	0.42
3:IH:318:ARG:HD3	3:IH:358:PRO:HG3	2.01	0.42
3:IH:375:GLN:CD	3:IH:375:GLN:H	2.27	0.42
4:II:391:LEU:HA	4:II:394:LYS:NZ	2.33	0.42
3:IJ:150:LEU:C	3:IJ:154:LYS:HZ3	2.27	0.42
3:IJ:330:MET:HA	3:IJ:333:VAL:HG12	2.01	0.42
4:IK:137:ILE:O	4:IK:169:PHE:N	2.50	0.42
4:IK:163:LYS:HA	4:IK:163:LYS:HD3	1.74	0.42
3:IL:32:PRO:C	3:IL:83:GLN:HE21	2.23	0.42
4:IM:119:LEU:HA	4:IM:122:ILE:HG12	1.99	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:JA:320:ARG:HH21	4:JA:358:GLN:HG3	1.84	0.42
4:JA:368:LEU:HD23	4:JA:368:LEU:H	1.84	0.42
3:JB:271:ALA:HB3	3:JB:365:ALA:H	1.83	0.42
3:JB:309:ARG:HH21	3:JB:426:GLN:HG2	1.84	0.42
3:JD:325:GLU:O	3:JD:329:GLN:HG2	2.18	0.42
3:JF:12:CYS:HA	3:JF:15:GLN:OE1	2.19	0.42
3:JF:36:TYR:CZ	3:JF:38:GLY:HA2	2.54	0.42
3:JF:274:THR:HG21	3:JF:279:GLN:HG3	2.01	0.42
3:JF:347:ASN:HB3	4:JG:178:SER:HB3	2.00	0.42
4:JG:244:PHE:HB2	4:JG:356:ASN:HD21	1.84	0.42
4:JG:322:ASP:OD2	4:JG:373:ARG:NH2	2.52	0.42
3:JH:172:SER:OG	3:JH:205:GLU:OE2	2.21	0.42
4:JI:70:LEU:HD23	4:JI:145:THR:HB	2.01	0.42
3:JJ:36:TYR:CZ	3:JJ:38:GLY:HA2	2.53	0.42
4:JK:27:GLU:HG2	4:JK:28:HIS:N	2.33	0.42
4:JK:272:TYR:CE1	4:JK:374:ALA:HB1	2.53	0.42
21:K3:235:ASP:OD1	21:K3:236:PHE:N	2.52	0.42
21:K4:184:TYR:OH	21:K4:487:PRO:HB3	2.18	0.42
21:K4:473:CYS:SG	21:K4:476:GLN:NE2	2.82	0.42
4:KA:148:GLY:O	4:KA:151:SER:OG	2.34	0.42
3:KD:42:LEU:HD11	3:KD:356:ILE:HG21	2.01	0.42
3:KD:87:PRO:HA	3:KD:90:PHE:CD2	2.54	0.42
3:KD:173:PRO:O	3:KD:380:ARG:NH2	2.52	0.42
4:KE:370:LYS:H	4:KE:370:LYS:HG2	1.57	0.42
3:KF:376:GLU:H	3:KF:376:GLU:CD	2.24	0.42
4:KG:268:PRO:HB2	4:KG:378:LEU:HD11	2.01	0.42
3:KH:165:ASN:OD1	3:KH:166:THR:N	2.52	0.42
4:KI:234:ILE:O	4:KI:237:SER:OG	2.31	0.42
3:KJ:11:GLN:OE1	39:KJ:501:GTP:N2	2.51	0.42
22:L1:128:LYS:CE	4:MC:214:ARG:HG2	2.49	0.42
22:L2:187:ARG:CZ	22:L2:251:TYR:HD1	2.32	0.42
39:LB:501:GTP:O3G	39:LB:501:GTP:O3'	2.23	0.42
4:LC:368:LEU:HD23	4:LC:368:LEU:H	1.83	0.42
4:LE:160:ASP:OD1	4:LE:161:TYR:N	2.52	0.42
4:LE:172:TYR:HD1	4:LE:203:MET:HG2	1.84	0.42
4:LE:278:ALA:HB1	27:Q:45:ASP:OD1	2.19	0.42
4:LG:421:ALA:HA	4:LG:424:ASP:HB2	2.01	0.42
3:LH:282:ARG:HE	3:LH:288:GLU:CD	2.27	0.42
3:LH:330:MET:CG	3:LH:349:VAL:HG11	2.49	0.42
4:LI:122:ILE:HG13	4:LI:123:ARG:N	2.33	0.42
3:LJ:309:ARG:H	3:LJ:372:THR:HG1	1.64	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:LK:251:ASP:HB3	4:LK:254:GLU:OE1	2.19	0.42
4:MC:70:LEU:HA	4:MC:95:GLY:HA3	2.01	0.42
4:MC:351:PHE:C	4:MC:352:LYS:HD2	2.44	0.42
3:MD:228:LEU:HD12	3:MD:229:VAL:N	2.33	0.42
4:ME:20:CYS:O	4:ME:24:TYR:N	2.45	0.42
3:MF:6:HIS:HB3	3:MF:21:TRP:HZ2	1.84	0.42
4:MG:171:ILE:HD12	4:MG:204:VAL:HG13	2.01	0.42
4:MG:240:ALA:HA	4:MG:243:ARG:HB2	2.00	0.42
4:MI:67:PHE:HB2	4:MI:92:LEU:HD23	2.00	0.42
4:MM:329:ASN:HA	4:MM:332:ILE:HG12	2.01	0.42
26:N1:166:PHE:HZ	4:WA:214:ARG:HA	1.84	0.42
26:N2:139:HIS:CG	3:WD:357:PRO:HD2	2.54	0.42
3:NB:175:VAL:HG22	3:NB:177:ASP:H	1.84	0.42
3:NB:318:ARG:N	3:NB:364:SER:O	2.49	0.42
4:NE:3:GLU:CD	4:NE:131:GLY:H	2.27	0.42
4:NE:52:PHE:HZ	4:NE:239:THR:HB	1.83	0.42
4:NE:182:VAL:O	4:NE:185:TYR:HB2	2.19	0.42
3:NF:204:ASN:OD1	3:NF:205:GLU:N	2.52	0.42
3:NF:320:ARG:NH1	3:NF:355:ASP:HB2	2.34	0.42
4:NG:36:MET:HG3	4:NG:41:THR:OG1	2.19	0.42
4:NG:246:GLY:HA3	4:NG:355:ILE:O	2.18	0.42
3:NJ:137:HIS:O	3:NJ:168:SER:HA	2.19	0.42
28:O1:84:ARG:N	28:O1:118:PHE:HZ	2.17	0.42
3:OB:44:LEU:HD23	37:YD:24:THR:HG21	2.00	0.42
3:OB:327:ASP:HA	3:OB:330:MET:HE3	2.01	0.42
4:OC:30:ILE:HG13	4:OC:53:PHE:CE2	2.52	0.42
4:OC:104:ALA:HB1	4:OC:108:TYR:HD2	1.83	0.42
4:OC:119:LEU:HB3	4:OC:123:ARG:NH2	2.34	0.42
4:OC:263:PRO:HB2	4:OC:264:ARG:CZ	2.48	0.42
3:OD:101:TRP:HD1	3:OD:145:SER:OG	2.02	0.42
4:OE:189:LEU:HA	4:OE:192:HIS:HE1	1.80	0.42
4:OE:260:VAL:HG23	4:OE:265:ILE:O	2.19	0.42
4:OI:2:ARG:NH2	4:OI:250:VAL:O	2.52	0.42
3:OL:379:LYS:O	3:OL:382:SER:OG	2.22	0.42
29:P1:316:ARG:HB2	29:P1:327:ILE:HD13	2.01	0.42
4:PA:107:HIS:CD2	4:PA:152:LEU:HB2	2.54	0.42
4:PA:196:GLU:HG2	4:PA:197:HIS:ND1	2.34	0.42
4:PC:45:GLY:HA2	4:PC:49:PHE:HE1	1.84	0.42
4:PC:311:LYS:N	4:PC:382:THR:OG1	2.51	0.42
4:PI:263:PRO:O	4:PI:264:ARG:HB2	2.19	0.42
4:PK:52:PHE:HZ	4:PK:239:THR:HB	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:PK:72:PRO:HA	4:PK:75:VAL:HG12	2.00	0.42
4:PK:239:THR:OG1	4:PK:243:ARG:NH1	2.52	0.42
3:PL:6:HIS:HD1	3:PL:63:ALA:HB1	1.84	0.42
3:PL:9:ALA:HB1	3:PL:147:MET:SD	2.59	0.42
3:PL:54:ALA:HA	3:QL:283:ALA:HB2	2.02	0.42
4:PM:165:SER:C	4:PM:166:LYS:HD2	2.44	0.42
4:PM:271:THR:HB	4:PM:377:MET:HE3	2.00	0.42
27:Q:149:GLN:NE2	27:Q:152:ARG:HE	2.17	0.42
27:Q:149:GLN:HG3	27:Q:153:ARG:NH1	2.34	0.42
30:Q2:1414:LEU:HB3	30:Q2:1416:ARG:HH11	1.83	0.42
30:Q3:1413:SER:O	30:Q3:1413:SER:OG	2.27	0.42
30:Q3:1433:THR:H	30:Q3:1437:TYR:HD2	1.66	0.42
4:QC:230:LEU:O	4:QC:234:ILE:HG12	2.19	0.42
3:QD:4:ILE:HB	3:QD:50:TYR:CE1	2.54	0.42
4:QE:252:LEU:HA	4:QE:255:PHE:CD2	2.54	0.42
3:QJ:32:PRO:C	3:QJ:83:GLN:HE21	2.26	0.42
4:QK:108:TYR:CD1	4:QK:413:MET:HE3	2.54	0.42
3:QL:272:PRO:HA	3:QL:292:GLN:OE1	2.19	0.42
4:QM:166:LYS:N	4:QM:199:ASP:OD2	2.51	0.42
4:QM:192:HIS:CE1	4:QM:193:THR:HG23	2.54	0.42
4:QM:272:TYR:HE1	4:QM:374:ALA:HB1	1.84	0.42
31:R1:268:TYR:O	31:R1:276:ARG:HB3	2.19	0.42
3:RB:407:GLU:HA	3:RB:410:GLU:OE2	2.19	0.42
3:RH:8:GLN:HE21	3:RH:13:GLY:C	2.26	0.42
4:RI:368:LEU:HD23	4:RI:368:LEU:H	1.84	0.42
3:RJ:401:GLU:OE1	3:RJ:403:MET:HG2	2.18	0.42
4:RK:22:GLU:HG2	4:RK:83:TYR:HE2	1.82	0.42
4:RK:174:ALA:HB3	4:RK:177:VAL:O	2.18	0.42
3:RL:251:ARG:HA	3:RL:254:ALA:HB3	2.01	0.42
3:RL:268:PRO:HD2	3:RL:301:ALA:HB2	2.01	0.42
4:RM:235:VAL:HA	4:RM:238:ILE:HG12	2.00	0.42
4:RM:421:ALA:HA	4:RM:424:ASP:HB2	2.01	0.42
3:SB:11:GLN:O	39:SB:501:GTP:N2	2.51	0.42
4:SC:189:LEU:HD11	4:SC:418:PHE:HE1	1.85	0.42
4:SC:214:ARG:HH11	4:SC:215:ARG:HG2	1.84	0.42
4:SC:332:ILE:HG13	4:SC:336:LYS:NZ	2.34	0.42
3:SD:117:LEU:HB3	3:SD:121:ARG:NH2	2.34	0.42
3:SD:390:ARG:HA	3:SD:390:ARG:HD2	1.78	0.42
4:SE:318:LEU:O	4:SE:375:VAL:HA	2.19	0.42
3:SF:375:GLN:HA	3:SF:378:PHE:CE1	2.54	0.42
4:SG:229:ARG:NH1	4:SG:233:GLN:HB2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:SH:28:HIS:O	3:SH:43:GLN:NE2	2.51	0.42
3:SH:150:LEU:C	3:SH:154:LYS:HZ3	2.27	0.42
3:SH:308:GLY:HA3	3:SH:372:THR:O	2.18	0.42
4:SI:280:LYS:O	4:SI:284:GLU:HB2	2.18	0.42
4:SI:352:LYS:NZ	3:SJ:178:THR:HA	2.33	0.42
4:SK:139:HIS:HE1	4:SK:168:GLU:HB3	1.84	0.42
4:SK:196:GLU:HG2	4:SK:197:HIS:ND1	2.34	0.42
3:SL:91:VAL:HG11	3:SL:116:VAL:HG12	2.01	0.42
3:TB:134:GLN:HA	3:TB:165:ASN:O	2.19	0.42
3:TB:305:PRO:HA	3:TB:373:ALA:HB2	2.00	0.42
3:TD:392:LYS:HD2	3:TD:392:LYS:O	2.19	0.42
3:TF:8:GLN:OE1	3:TF:14:ASN:HA	2.19	0.42
3:TF:9:ALA:HB3	3:TF:137:HIS:HB3	2.00	0.42
3:TH:289:LEU:O	3:TH:293:MET:N	2.47	0.42
4:TI:29:GLY:O	4:TI:36:MET:HE1	2.18	0.42
4:TI:370:LYS:HD2	36:Z:371:ILE:HG23	2.00	0.42
3:TJ:11:GLN:O	39:TJ:501:GTP:N2	2.51	0.42
3:TJ:194:GLU:OE2	3:TJ:414:ASN:ND2	2.52	0.42
3:TJ:322:SER:HG	3:TJ:323:MET:H	1.67	0.42
4:TK:7:ILE:N	4:TK:136:LEU:O	2.38	0.42
3:TL:8:GLN:HG3	3:TL:13:GLY:O	2.18	0.42
4:TM:10:GLY:HA2	4:TM:145:THR:OG1	2.18	0.42
4:TM:395:PHE:HB3	4:TM:422:ARG:NH1	2.34	0.42
4:UA:163:LYS:HD3	4:UA:163:LYS:HA	1.78	0.42
4:UC:368:LEU:HD23	4:UC:368:LEU:H	1.83	0.42
39:UD:501:GTP:O3G	39:UD:501:GTP:O3'	2.28	0.42
4:UE:88:HIS:CE1	4:UE:90:GLU:HG2	2.54	0.42
4:UE:399:TYR:CE1	4:UE:418:PHE:HB3	2.53	0.42
3:UF:113:VAL:HA	3:UF:116:VAL:HG22	2.00	0.42
4:UG:287:SER:N	4:UG:290:GLU:OE2	2.51	0.42
4:UI:47:ASP:HB3	4:UI:49:PHE:CE2	2.54	0.42
4:VC:135:PHE:CD2	4:VC:157:LEU:HD21	2.53	0.42
3:VD:261:PRO:O	3:VD:264:HIS:NE2	2.52	0.42
3:VD:302:ALA:HB1	3:VD:377:LEU:HD21	2.01	0.42
4:VE:265:ILE:HD12	4:VE:432:TYR:CE1	2.54	0.42
4:VG:143:GLY:O	4:VG:147:SER:OG	2.33	0.42
3:VH:12:CYS:HB3	39:VH:501:GTP:O4'	2.19	0.42
3:VH:324:LYS:HG3	4:VI:221:ARG:NH1	2.34	0.42
3:VH:375:GLN:HA	3:VH:378:PHE:CE1	2.54	0.42
4:VI:216:ASN:OD1	4:VI:217:LEU:N	2.52	0.42
4:VI:370:LYS:HG2	33:X:478:LEU:HD21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VJ:73:MET:HA	3:VJ:76:VAL:HG22	2.01	0.42
4:VK:107:HIS:CD2	4:VK:152:LEU:HB2	2.53	0.42
3:VL:39:ASP:N	3:VL:39:ASP:OD1	2.51	0.42
3:VL:137:HIS:O	3:VL:168:SER:HA	2.19	0.42
33:W:212:LEU:O	33:W:216:GLN:HG3	2.19	0.42
4:WA:104:ALA:HB1	4:WA:108:TYR:HD2	1.84	0.42
4:WC:6:SER:HB3	4:WC:65:ALA:HB2	1.99	0.42
3:WD:6:HIS:HB3	3:WD:21:TRP:HZ2	1.84	0.42
4:WE:53:PHE:HB3	4:WE:61:HIS:HB3	2.01	0.42
4:WE:70:LEU:HA	4:WE:95:GLY:HA3	2.01	0.42
3:WF:306:ARG:O	3:WF:306:ARG:NE	2.49	0.42
4:WG:252:LEU:HD12	4:WG:253:THR:N	2.33	0.42
3:WH:306:ARG:O	3:WH:306:ARG:NE	2.48	0.42
4:WI:50:ASN:OD1	4:WI:51:THR:N	2.52	0.42
4:WI:76:ASP:OD1	4:WI:79:ARG:NH1	2.51	0.42
3:WJ:326:VAL:O	3:WJ:330:MET:HE3	2.18	0.42
3:WJ:406:MET:SD	3:WJ:407:GLU:N	2.92	0.42
34:XA:101:ARG:NE	34:XA:116:PRO:O	2.48	0.42
34:XC:55:SER:HA	34:XC:157:HIS:CE1	2.54	0.42
34:XC:169:ASP:OD1	34:XC:170:ARG:N	2.52	0.42
37:YA:161:LYS:O	37:YA:165:HIS:NE2	2.52	0.42
37:YE:15:TYR:HA	37:YE:18:PHE:HB3	2.00	0.42
37:YF:26:ILE:HD12	37:YF:134:TYR:CE1	2.53	0.42
37:YF:71:ASP:OD1	37:YF:72:ILE:N	2.53	0.42
37:YF:114:ARG:NH2	37:YF:130:ALA:O	2.46	0.42
37:YI:8:LEU:HA	37:YI:11:ILE:HB	2.01	0.42
37:YK:158:LEU:HD22	37:YK:162:VAL:HG11	2.01	0.42
37:YM:7:SER:O	37:YM:10:SER:OG	2.33	0.42
37:YM:14:LYS:HE2	37:YM:18:PHE:HB2	2.00	0.42
37:YM:83:PHE:HB3	37:YM:97:LEU:HD22	2.01	0.42
37:YP:18:PHE:O	37:YP:22:GLN:N	2.52	0.42
37:YQ:112:SER:HA	37:YQ:135:GLY:HA3	2.01	0.42
37:YS:143:ILE:O	37:YS:147:PHE:HB2	2.19	0.42
37:YV:6:GLU:CD	37:YV:9:ARG:HH12	2.26	0.42
2:A3:96:THR:O	2:A3:99:GLU:HG3	2.20	0.42
3:AB:91:VAL:HG11	3:AB:116:VAL:HG12	2.01	0.42
4:AE:9:VAL:HG22	4:AE:146:GLY:HA2	2.01	0.42
4:AE:107:HIS:CD2	4:AE:152:LEU:HB2	2.54	0.42
4:AE:224:TYR:HA	4:AE:227:LEU:HB2	2.00	0.42
4:AG:49:PHE:CG	4:AG:61:HIS:HE1	2.37	0.42
4:AG:333:ALA:O	4:AG:337:THR:HG23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AG:346:TRP:N	4:AG:346:TRP:CD1	2.87	0.42
4:AG:368:LEU:HD23	4:AG:368:LEU:H	1.83	0.42
4:AI:252:LEU:HD12	4:AI:253:THR:N	2.34	0.42
4:AI:317:MET:O	4:AI:353:VAL:HA	2.18	0.42
4:AI:389:ALA:HA	4:AI:392:ASP:OD2	2.19	0.42
4:AI:401:LYS:HA	4:AI:402:ARG:HH11	1.83	0.42
3:AJ:117:LEU:HA	3:AJ:120:VAL:HG22	2.00	0.42
4:AK:119:LEU:HB3	4:AK:123:ARG:NH2	2.34	0.42
3:AL:141:GLY:HA3	39:AL:501:GTP:O2A	2.19	0.42
4:AM:72:PRO:HA	4:AM:75:VAL:HG12	2.02	0.42
4:AM:141:PHE:CD2	4:AM:172:TYR:HA	2.54	0.42
4:AM:271:THR:OG1	4:AM:301:GLN:HG3	2.19	0.42
4:AM:427:ALA:HB1	34:XG:102:ARG:HH22	1.84	0.42
5:B1:282:GLN:NE2	5:B2:25:SER:HA	2.33	0.42
5:B1:312:LYS:HE2	5:B2:199:ILE:HG13	2.01	0.42
5:B1:324:ARG:HD2	5:B1:329:LEU:HD12	2.01	0.42
5:B2:265:PHE:CE2	5:B2:269:LEU:HD11	2.55	0.42
5:B4:73:ARG:HA	5:B4:76:GLU:CD	2.43	0.42
5:B4:136:GLU:CG	5:B4:261:THR:HG22	2.49	0.42
5:B6:299:ARG:HA	5:B6:302:GLU:CD	2.43	0.42
5:B7:233:MET:O	5:B7:236:SER:OG	2.28	0.42
5:B7:400:PRO:O	5:B7:402:GLU:HG3	2.19	0.42
5:B7:403:LYS:HD3	5:B7:406:PRO:HA	2.01	0.42
5:B9:318:LEU:HD21	5:B9:338:LEU:HB3	2.02	0.42
3:BB:11:GLN:OE1	39:BB:501:GTP:N2	2.50	0.42
3:BB:391:ARG:C	3:BB:392:LYS:HG3	2.45	0.42
4:BC:8:HIS:CD2	4:BC:138:PHE:HD2	2.36	0.42
3:BD:330:MET:CG	3:BD:349:VAL:HG11	2.49	0.42
3:BD:379:LYS:O	3:BD:382:SER:OG	2.20	0.42
4:BE:145:THR:HG1	39:BE:501:GTP:PB	2.41	0.42
3:BF:250:LEU:HD13	3:BF:253:LEU:HD12	2.00	0.42
4:BG:182:VAL:O	4:BG:185:TYR:HB2	2.20	0.42
3:BH:21:TRP:CZ2	3:BH:63:ALA:HB2	2.54	0.42
3:BH:183:TYR:CG	3:BH:388:MET:HE3	2.54	0.42
3:BH:318:ARG:O	3:BH:364:SER:N	2.44	0.42
4:BI:424:ASP:O	4:BI:428:LEU:HG	2.19	0.42
4:BK:70:LEU:HB3	4:BK:97:GLU:O	2.19	0.42
4:BK:120:ASP:OD1	4:BK:123:ARG:NH2	2.52	0.42
3:BL:31:ASP:OD2	3:BL:35:THR:OG1	2.33	0.42
4:BM:174:ALA:HB3	4:BM:177:VAL:O	2.19	0.42
6:C:340:PHE:CE2	6:C:375:CYS:HB3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C2:400:LEU:HA	7:C2:420:LEU:HD13	2.01	0.42
7:C4:296:VAL:HG12	7:C4:298:GLU:OE1	2.19	0.42
7:C4:347:PHE:CZ	7:C4:473:CYS:HB3	2.54	0.42
7:C4:358:LYS:HA	7:C4:462:LYS:NZ	2.32	0.42
7:C5:415:MET:CE	7:C5:419:ARG:HE	2.32	0.42
7:C7:127:LEU:HA	7:C7:130:ASP:OD2	2.18	0.42
7:C7:361:ILE:HG23	7:C7:455:LEU:HD12	2.01	0.42
3:CB:65:LEU:HD13	3:CB:90:PHE:CE1	2.55	0.42
3:CB:117:LEU:HA	3:CB:120:VAL:HG22	2.01	0.42
4:CE:99:ALA:HB3	4:CE:144:GLY:O	2.19	0.42
4:CE:256:GLN:O	4:CE:260:VAL:HG12	2.19	0.42
3:CF:380:ARG:O	3:CF:384:GLN:HG2	2.19	0.42
3:CH:268:PRO:HD2	3:CH:301:ALA:HB2	2.00	0.42
3:CH:345:ILE:HD12	3:CH:346:PRO:HD2	2.01	0.42
4:CI:137:ILE:O	4:CI:169:PHE:N	2.51	0.42
4:CI:320:ARG:HD3	4:CI:360:PRO:HG3	2.01	0.42
4:CI:333:ALA:HA	4:CI:336:LYS:HG2	2.00	0.42
4:CM:287:SER:N	4:CM:290:GLU:OE2	2.48	0.42
4:CM:332:ILE:O	4:CM:336:LYS:HG3	2.19	0.42
7:Ca:213:ASP:HB2	7:Ca:214:GLU:OE1	2.18	0.42
7:Cb:116:ASN:HA	7:Cb:119:ARG:NH1	2.34	0.42
7:Cb:437:ARG:HH22	7:Cc:123:ASP:CG	2.26	0.42
7:Cc:231:GLU:O	7:Cc:234:ARG:HG2	2.19	0.42
7:Cc:443:ASP:HA	7:Cc:446:GLN:OE1	2.19	0.42
7:Cd:228:CYS:O	7:Cd:232:ARG:HG3	2.19	0.42
6:D:148:THR:OG1	6:D:249:PRO:HD3	2.19	0.42
8:D1:78:ARG:HB2	8:D2:335:GLN:OE1	2.19	0.42
8:D2:119:ARG:O	8:D2:123:GLU:OE1	2.37	0.42
8:D3:175:GLU:OE2	8:D3:299:ALA:HB3	2.19	0.42
8:D3:272:ARG:O	8:D3:276:VAL:HG23	2.19	0.42
8:D3:359:GLN:HA	8:D3:362:HIS:CD2	2.54	0.42
8:D4:336:ILE:HG22	8:D4:340:LYS:NZ	2.34	0.42
8:D4:393:GLU:HA	8:D4:396:GLN:OE1	2.19	0.42
8:D6:394:LYS:HA	8:D6:397:ASP:OD2	2.19	0.42
8:D7:279:ARG:O	8:D7:282:ILE:HG22	2.19	0.42
8:D8:57:PHE:CE2	11:Ff:388:PRO:HB3	2.54	0.42
8:D8:135:LYS:HD3	8:D8:194:ILE:HD11	2.02	0.42
8:D8:429:LYS:HG3	8:D8:430:CYS:N	2.34	0.42
4:DA:288:VAL:HG21	4:DA:328:VAL:HG22	2.00	0.42
3:DB:53:GLU:O	3:EB:283:ALA:HB2	2.19	0.42
4:DC:119:LEU:HB3	4:DC:123:ARG:NH2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DC:331:ALA:O	4:DC:335:ILE:HG12	2.19	0.42
3:DD:113:VAL:HA	3:DD:116:VAL:HG22	2.01	0.42
3:DD:404:ASP:OD1	3:DD:404:ASP:N	2.52	0.42
4:DE:1:MET:HE2	4:DE:2:ARG:H	1.84	0.42
4:DG:20:CYS:O	4:DG:24:TYR:N	2.45	0.42
3:DH:101:TRP:CE3	3:DH:187:LEU:HD13	2.54	0.42
3:DH:216:LYS:HB3	3:DH:276:ARG:NH2	2.34	0.42
4:DI:215:ARG:NH1	4:DI:299:ALA:O	2.40	0.42
4:DI:306:ASP:OD2	4:DI:309:HIS:N	2.52	0.42
4:DK:36:MET:HA	4:DK:36:MET:HE2	2.00	0.42
4:DK:140:SER:HA	4:DK:170:ALA:HB1	2.00	0.42
4:DK:251:ASP:HB3	4:DK:254:GLU:OE1	2.19	0.42
3:DL:143:THR:HG22	3:DL:147:MET:HE3	2.01	0.42
3:DL:254:ALA:O	3:DL:258:VAL:N	2.49	0.42
3:DL:257:MET:O	3:DL:259:PRO:HD3	2.18	0.42
10:E3:13:VAL:H	10:E3:14:PRO:HD3	1.84	0.42
4:EA:21:TRP:CD1	4:EA:24:TYR:HD2	2.37	0.42
3:EB:47:ILE:HG12	3:EB:59:TYR:CD2	2.54	0.42
3:EB:81:PHE:O	3:EB:84:ILE:HG22	2.19	0.42
4:EC:224:TYR:CE2	39:EC:501:GTP:C6	3.06	0.42
4:EC:235:VAL:HA	4:EC:238:ILE:HG12	2.00	0.42
4:EC:433:GLU:O	4:EC:437:VAL:N	2.53	0.42
3:ED:316:VAL:N	3:ED:366:THR:O	2.44	0.42
3:ED:318:ARG:HG3	3:ED:354:CYS:HB3	2.01	0.42
3:ED:320:ARG:N	3:ED:363:MET:HE1	2.28	0.42
3:ED:391:ARG:C	3:ED:392:LYS:HG3	2.44	0.42
4:EE:224:TYR:HB3	4:EE:228:ASN:ND2	2.35	0.42
4:EG:11:GLN:HB3	4:EG:74:VAL:HG21	2.00	0.42
4:EG:35:GLN:HG2	4:EG:59:GLY:O	2.18	0.42
4:EG:263:PRO:HB2	4:EG:264:ARG:NH1	2.34	0.42
3:EH:32:PRO:HA	3:EH:81:PHE:CE1	2.53	0.42
3:EH:117:LEU:HB3	3:EH:121:ARG:NH2	2.34	0.42
4:EI:38:SER:HB2	14:G6:716:LYS:HZ1	1.84	0.42
4:EI:427:ALA:HA	4:EI:430:LYS:HG2	2.00	0.42
11:F2:121:LEU:O	11:F2:124:MET:HG3	2.18	0.42
11:F2:122:ARG:HA	11:F2:125:GLN:HE21	1.84	0.42
11:F2:213:LYS:HA	11:F2:216:ILE:HD12	2.01	0.42
11:F5:129:GLN:O	11:F5:133:GLN:OE1	2.37	0.42
11:F7:388:PRO:HA	11:F7:391:MET:HB3	2.00	0.42
3:FB:185:ALA:O	3:FB:189:VAL:HG12	2.19	0.42
3:FB:344:TRP:HA	4:FC:401:LYS:NZ	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FC:40:LYS:HE2	4:FC:40:LYS:HB2	1.92	0.42
4:FC:55:GLU:HA	4:FC:60:LYS:O	2.19	0.42
3:FD:204:ASN:O	3:FD:208:TYR:N	2.45	0.42
4:FE:36:MET:HG3	4:FE:41:THR:OG1	2.19	0.42
4:FE:135:PHE:CE2	4:FE:164:LYS:HD2	2.55	0.42
3:FF:183:TYR:N	3:FF:388:MET:HE1	2.34	0.42
4:FG:6:SER:HB3	4:FG:65:ALA:HB2	2.00	0.42
4:FG:325:PRO:O	4:FG:329:ASN:ND2	2.52	0.42
4:FG:427:ALA:HA	4:FG:430:LYS:HG2	2.01	0.42
4:FI:36:MET:HG3	4:FI:41:THR:OG1	2.19	0.42
4:FI:54:SER:H	4:FI:62:VAL:H	1.67	0.42
4:FI:235:VAL:HA	4:FI:238:ILE:HG12	2.02	0.42
4:FI:264:ARG:O	4:FI:266:HIS:ND1	2.47	0.42
3:FJ:121:ARG:HA	3:FJ:124:ALA:HB3	2.01	0.42
4:FK:232:GLY:HA2	4:FK:235:VAL:HG12	2.01	0.42
3:FL:52:ASN:CG	3:FL:62:ARG:HH11	2.25	0.42
3:FL:328:GLU:HA	3:FL:331:LEU:HB2	2.00	0.42
3:FL:401:GLU:OE1	3:FL:403:MET:HG2	2.20	0.42
11:Fa:419:GLU:HA	11:Fa:422:THR:HB	2.00	0.42
11:Fb:133:GLN:HA	11:Fb:136:GLU:OE1	2.18	0.42
11:Fb:386:GLU:HG3	11:Fb:390:LYS:NZ	2.34	0.42
11:Fb:418:ASN:O	11:Fb:422:THR:HG23	2.19	0.42
11:Fe:177:LEU:HD13	11:Fe:236:ILE:HD13	2.00	0.42
11:Fg:385:LYS:NZ	11:Fg:430:LEU:HB2	2.34	0.42
11:Fi:319:GLU:HA	11:Fi:322:GLU:CD	2.44	0.42
11:Fi:433:ARG:HD2	11:Fi:433:ARG:HA	1.75	0.42
11:Fj:307:ALA:O	11:Fj:311:ARG:HG3	2.19	0.42
11:Fm:425:ASP:HA	11:Fm:428:GLN:HG3	2.00	0.42
13:G1:21:THR:HG22	27:Q:87:ARG:HH22	1.83	0.42
13:G1:381:LEU:HD11	13:G1:397:CYS:HB2	2.01	0.42
13:G1:425:ALA:HB2	13:G1:506:LEU:HD11	2.00	0.42
13:G1:435:ASP:OD1	13:G1:436:ARG:NH2	2.51	0.42
13:G2:35:ASN:O	13:G2:37:TYR:N	2.53	0.42
13:G2:188:ARG:HG3	13:G2:189:PHE:N	2.35	0.42
13:G3:14:GLY:HA2	3:LL:228:LEU:HD21	2.01	0.42
13:G3:133:VAL:H	13:G3:147:LYS:HZ1	1.67	0.42
13:G3:179:LYS:HA	13:G3:179:LYS:HD2	1.77	0.42
13:G3:245:PHE:O	13:G3:263:ILE:HA	2.19	0.42
14:G5:79:LEU:O	14:G5:105:TYR:HA	2.18	0.42
14:G5:420:LYS:O	14:G5:424:LEU:HB2	2.19	0.42
14:G5:436:TYR:CD2	14:G5:507:LEU:HD23	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G5:582:PHE:O	14:G5:586:LEU:HG	2.19	0.42
4:GA:9:VAL:HG23	4:GA:149:PHE:HD2	1.84	0.42
3:GB:324:LYS:HD3	4:GC:210:TYR:CE2	2.42	0.42
3:GD:346:PRO:HG2	4:GE:394:LYS:HZ3	1.85	0.42
3:GF:15:GLN:O	3:GF:19:LYS:HE2	2.17	0.42
4:GG:251:ASP:HB3	4:GG:254:GLU:OE1	2.19	0.42
4:GG:280:LYS:HD2	4:GG:280:LYS:HA	1.73	0.42
3:GH:6:HIS:HD2	3:GH:134:GLN:HG2	1.84	0.42
3:GH:12:CYS:HB3	39:GH:501:GTP:O4'	2.20	0.42
4:GI:265:ILE:HD12	4:GI:267:PHE:CD2	2.47	0.42
4:GI:274:PRO:HG3	4:GI:374:ALA:HA	2.01	0.42
3:GJ:321:MET:HE1	3:GJ:363:MET:HG2	2.01	0.42
4:GK:88:HIS:HB3	4:GK:91:GLN:CG	2.49	0.42
4:GK:99:ALA:HB3	4:GK:144:GLY:O	2.19	0.42
4:GK:235:VAL:HA	4:GK:238:ILE:HG12	2.01	0.42
3:GL:5:VAL:HG22	3:GL:62:ARG:HB3	2.00	0.42
3:GL:269:GLY:HA3	3:GL:367:PHE:HB3	2.00	0.42
3:GL:273:LEU:H	3:GL:292:GLN:HE22	1.67	0.42
15:H2:248:ASP:O	15:H2:251:GLN:HG3	2.18	0.42
4:HA:34:GLY:O	4:HA:61:HIS:ND1	2.52	0.42
4:HA:34:GLY:O	4:HA:60:LYS:HA	2.19	0.42
3:HB:302:ALA:HB1	3:HB:377:LEU:HD21	2.02	0.42
3:HB:418:LEU:HD12	3:HB:422:TYR:CE2	2.55	0.42
4:HC:90:GLU:OE1	4:IC:280:LYS:NZ	2.47	0.42
3:HF:97:ALA:C	3:HF:99:ASN:N	2.76	0.42
3:HF:317:PHE:HE2	3:HF:326:VAL:HG23	1.84	0.42
3:HF:331:LEU:HD11	4:HG:176:GLN:OE1	2.19	0.42
3:HF:347:ASN:HB3	4:HG:178:SER:HB3	2.00	0.42
4:HG:33:ASP:OD1	4:HG:35:GLN:N	2.42	0.42
3:HH:273:LEU:H	3:HH:292:GLN:HE22	1.68	0.42
4:HI:10:GLY:O	4:HI:13:GLY:N	2.51	0.42
4:HI:88:HIS:HE1	4:HI:90:GLU:CD	2.27	0.42
3:HJ:139:LEU:N	3:HJ:168:SER:OG	2.51	0.42
3:HJ:188:SER:O	3:HJ:192:LEU:HG	2.19	0.42
4:HK:265:ILE:HD12	4:HK:432:TYR:CE1	2.54	0.42
3:HL:31:ASP:OD1	3:HL:31:ASP:N	2.52	0.42
4:IA:109:THR:O	4:IA:112:LYS:NZ	2.49	0.42
4:IA:119:LEU:HD23	4:IA:122:ILE:HD11	2.01	0.42
4:IA:389:ALA:HA	4:IA:392:ASP:OD2	2.19	0.42
3:IB:19:LYS:HD2	3:IB:227:HIS:HB2	2.01	0.42
4:IE:1:MET:HE2	4:IE:2:ARG:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:IE:1:MET:HE1	4:IE:51:THR:HB	2.00	0.42
4:IE:50:ASN:O	4:IE:64:ARG:NH1	2.52	0.42
4:IE:115:VAL:HG21	4:IE:156:ARG:HD3	2.01	0.42
4:IE:270:ALA:O	4:IE:271:THR:OG1	2.33	0.42
4:IG:226:ASN:O	4:IG:229:ARG:HG2	2.19	0.42
3:IH:19:LYS:NZ	3:IH:223:GLY:O	2.51	0.42
4:II:115:VAL:HG23	4:II:153:LEU:HD23	2.00	0.42
4:II:132:LEU:O	4:II:132:LEU:HD12	2.19	0.42
3:IJ:73:MET:HA	3:IJ:76:VAL:HG22	2.01	0.42
4:IK:217:LEU:HB3	4:IK:219:ILE:HG12	2.00	0.42
3:IL:246:LEU:HB3	3:IL:353:VAL:O	2.19	0.42
3:IL:324:LYS:CE	4:IM:221:ARG:HA	2.49	0.42
4:IM:267:PHE:N	4:IM:268:PRO:HD3	2.34	0.42
4:JA:47:ASP:HB3	4:JA:49:PHE:CE2	2.53	0.42
4:JA:283:HIS:ND1	4:JA:284:GLU:OE1	2.53	0.42
3:JB:143:THR:HG22	3:JB:147:MET:CE	2.50	0.42
4:JC:115:VAL:HA	4:JC:118:VAL:HG22	2.00	0.42
4:JC:154:MET:HE1	4:JC:197:HIS:HB2	2.00	0.42
3:JD:197:ASP:OD1	3:JD:198:GLU:N	2.52	0.42
3:JD:378:PHE:CD1	3:JD:419:VAL:HG22	2.55	0.42
4:JE:6:SER:HA	4:JE:136:LEU:HB2	2.00	0.42
4:JE:30:ILE:HG13	4:JE:53:PHE:CE2	2.54	0.42
4:JE:53:PHE:HB3	4:JE:61:HIS:HB3	2.01	0.42
4:JE:368:LEU:HD23	4:JE:368:LEU:H	1.84	0.42
3:JF:32:PRO:C	3:JF:83:GLN:HE21	2.25	0.42
4:JG:301:GLN:N	4:JG:301:GLN:OE1	2.52	0.42
3:JH:117:LEU:HD11	3:JH:154:LYS:HD2	2.01	0.42
3:JH:224:ASP:O	3:JH:228:LEU:HG	2.19	0.42
4:JI:424:ASP:O	4:JI:428:LEU:HD23	2.19	0.42
3:JJ:12:CYS:HB3	39:JJ:501:GTP:H5'	2.01	0.42
3:JJ:274:THR:HG21	3:JJ:279:GLN:HG3	2.01	0.42
21:K1:409:LEU:O	21:K1:409:LEU:HD12	2.19	0.42
21:K1:442:ASN:O	21:K1:446:GLY:N	2.45	0.42
21:K2:173:LEU:O	21:K2:177:GLN:HG3	2.19	0.42
21:K2:221:GLU:HA	21:K2:224:LEU:HB2	2.01	0.42
21:K2:395:ARG:N	21:K2:398:VAL:HG12	2.34	0.42
21:K4:264:TRP:C	21:K4:266:ASP:H	2.26	0.42
4:KC:70:LEU:HB3	4:KC:97:GLU:O	2.19	0.42
39:KD:501:GTP:O3'	39:KD:501:GTP:O3G	2.31	0.42
4:KE:402:ARG:NH2	31:R1:125:ARG:HD2	2.34	0.42
3:KF:2:ARG:HA	3:KF:129:CYS:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KF:39:ASP:OD1	3:KF:43:GLN:NE2	2.51	0.42
4:KG:42:ILE:HG21	27:R:336:ARG:HH22	1.83	0.42
4:KG:319:TYR:N	4:KG:354:GLY:O	2.46	0.42
3:KH:32:PRO:C	3:KH:83:GLN:HE21	2.27	0.42
4:KI:246:GLY:HA2	4:KI:357:TYR:CD2	2.54	0.42
4:KK:10:GLY:O	4:KK:14:VAL:HG13	2.19	0.42
4:KK:81:GLY:O	4:KK:84:ARG:NH1	2.52	0.42
22:L1:126:VAL:HG11	4:LC:114:ILE:HD13	2.02	0.42
22:L1:142:PHE:CZ	4:MC:298:PRO:HB2	2.54	0.42
22:L3:192:GLU:O	22:L3:196:VAL:HG23	2.19	0.42
22:L4:26:ARG:NH1	22:L4:36:LYS:HZ2	2.08	0.42
4:LA:252:LEU:HD12	4:LA:253:THR:N	2.32	0.42
4:LA:370:LYS:HD3	27:Q:162:TRP:CD2	2.53	0.42
4:LA:431:ASP:HA	4:LA:434:GLU:OE1	2.19	0.42
3:LB:208:TYR:CE1	3:LB:225:LEU:HD21	2.53	0.42
3:LB:308:GLY:HA3	3:LB:372:THR:O	2.18	0.42
4:LC:176:GLN:NE2	4:LC:207:GLU:OE2	2.51	0.42
4:LC:301:GLN:N	4:LC:301:GLN:OE1	2.52	0.42
4:LE:47:ASP:HB3	4:LE:49:PHE:CE2	2.54	0.42
4:LE:122:ILE:O	4:LE:126:ALA:N	2.46	0.42
4:LE:285:GLN:HE22	4:LE:287:SER:HB3	1.84	0.42
3:LF:21:TRP:CZ2	3:LF:63:ALA:HB2	2.55	0.42
3:LF:386:THR:O	3:LF:390:ARG:N	2.52	0.42
4:LG:2:ARG:NE	4:LG:242:LEU:HG	2.34	0.42
4:LG:171:ILE:HD12	4:LG:204:VAL:HG13	2.01	0.42
4:LG:192:HIS:CE1	4:LG:193:THR:HG23	2.54	0.42
4:LI:93:ILE:HG13	4:LI:118:VAL:HG12	2.01	0.42
4:LI:390:ARG:HG2	4:LI:394:LYS:NZ	2.33	0.42
3:LJ:12:CYS:HA	3:LJ:15:GLN:OE1	2.19	0.42
3:LJ:379:LYS:O	3:LJ:382:SER:OG	2.28	0.42
4:LK:103:TYR:HB2	4:LK:186:ASN:HB2	2.01	0.42
4:LK:165:SER:C	4:LK:166:LYS:HD2	2.44	0.42
4:LK:318:LEU:O	4:LK:375:VAL:HA	2.18	0.42
3:LL:175:VAL:HG22	3:LL:177:ASP:H	1.84	0.42
4:MC:243:ARG:HD2	4:MC:244:PHE:CE1	2.54	0.42
4:MC:252:LEU:HD12	4:MC:253:THR:N	2.33	0.42
4:MC:296:PHE:HE1	4:MC:377:MET:HE2	1.84	0.42
4:ME:263:PRO:HB2	4:ME:264:ARG:NH1	2.34	0.42
3:MF:12:CYS:HA	3:MF:15:GLN:OE1	2.18	0.42
4:MG:287:SER:N	4:MG:290:GLU:OE2	2.52	0.42
4:MG:417:GLU:CD	4:MG:417:GLU:H	2.26	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MH:293:MET:HE3	3:MH:367:PHE:HB2	2.01	0.42
3:MH:304:ASP:CB	28:O2:9:GLN:HG3	2.44	0.42
3:MJ:376:GLU:H	3:MJ:376:GLU:CD	2.27	0.42
3:ML:118:ASP:OD1	3:ML:121:ARG:NH1	2.52	0.42
39:ML:501:GTP:O3G	39:ML:501:GTP:O3'	2.25	0.42
4:MM:373:ARG:NH2	27:P:36:ILE:HG13	2.34	0.42
25:N:34:ASN:OD1	25:N:38:SER:HB3	2.19	0.42
26:N2:166:PHE:CE2	4:WE:220:GLU:HB3	2.54	0.42
4:NA:276:ILE:HG21	4:NA:281:ALA:HB2	2.01	0.42
3:NB:150:LEU:O	3:NB:153:SER:OG	2.35	0.42
3:NB:309:ARG:HH22	3:NB:344:TRP:HZ3	1.67	0.42
3:NB:346:PRO:HD2	4:NC:398:MET:HE1	2.01	0.42
3:ND:152:ILE:O	3:ND:156:ARG:HG2	2.19	0.42
4:NE:99:ALA:HB3	4:NE:144:GLY:O	2.18	0.42
4:NI:166:LYS:HB3	4:NI:168:GLU:OE2	2.19	0.42
3:NJ:246:LEU:HB3	3:NJ:353:VAL:O	2.18	0.42
4:NK:319:TYR:HB3	4:NK:323:VAL:HG11	2.00	0.42
3:NL:109:GLY:O	3:NL:113:VAL:HG13	2.19	0.42
28:O1:21:ASN:ND2	28:O1:23:SER:O	2.52	0.42
28:O1:94:LYS:O	28:O1:98:LYS:NZ	2.46	0.42
3:OB:344:TRP:CD1	4:OC:401:LYS:HD2	2.53	0.42
4:OC:6:SER:HA	4:OC:136:LEU:HB2	2.01	0.42
4:OC:34:GLY:HA3	4:OC:60:LYS:HD2	2.00	0.42
4:OE:22:GLU:O	4:OE:26:LEU:HD23	2.18	0.42
4:OE:122:ILE:O	4:OE:126:ALA:N	2.49	0.42
4:OE:386:GLU:HA	4:OE:389:ALA:HB3	2.00	0.42
3:OF:12:CYS:SG	39:OF:501:GTP:H5'	2.59	0.42
3:OF:345:ILE:HA	4:OG:398:MET:HE1	2.01	0.42
4:OG:70:LEU:HB2	4:OG:145:THR:HG21	2.02	0.42
4:OG:93:ILE:HG13	4:OG:118:VAL:HG12	2.01	0.42
3:OJ:325:GLU:HA	3:OJ:328:GLU:HG3	2.01	0.42
3:OJ:406:MET:O	3:OJ:409:THR:OG1	2.22	0.42
4:OK:252:LEU:HD12	4:OK:253:THR:N	2.34	0.42
3:OL:101:TRP:HB2	3:OL:184:ASN:ND2	2.34	0.42
27:P:318:HIS:O	27:P:322:LEU:HD23	2.19	0.42
29:P2:340:PHE:CD2	29:P2:594:ARG:HB3	2.55	0.42
29:P2:351:CYS:HB3	29:P2:380:ILE:HD13	2.01	0.42
3:PB:117:LEU:HB3	3:PB:121:ARG:NH2	2.33	0.42
3:PB:172:SER:OG	3:PB:205:GLU:OE2	2.24	0.42
3:PB:178:THR:HB	3:PB:181:GLU:HB2	2.01	0.42
3:PD:252:LYS:O	3:PD:256:ASN:ND2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:PE:184:PRO:HG2	4:PE:398:MET:HE1	2.01	0.42
3:PF:322:SER:OG	3:PF:323:MET:N	2.52	0.42
3:PH:101:TRP:CE3	3:PH:187:LEU:HD13	2.55	0.42
3:PJ:5:VAL:HG23	3:PJ:130:LEU:HD21	2.01	0.42
3:PJ:131:GLN:HB3	3:PJ:163:ILE:HD12	2.01	0.42
3:PJ:348:ASN:OD1	3:PJ:348:ASN:N	2.52	0.42
4:PK:387:ALA:HA	4:PK:390:ARG:CZ	2.48	0.42
3:PL:8:GLN:NE2	3:PL:17:GLY:HA3	2.34	0.42
30:Q2:1491:PHE:O	30:Q2:1495:GLU:HG2	2.19	0.42
3:QB:322:SER:OG	3:QB:323:MET:SD	2.77	0.42
4:QC:52:PHE:HZ	4:QC:239:THR:HB	1.83	0.42
4:QC:104:ALA:HB3	4:QC:413:MET:HE3	2.02	0.42
4:QC:395:PHE:C	4:QC:422:ARG:HH22	2.26	0.42
3:QD:182:PRO:HB2	3:QD:388:MET:HE1	2.01	0.42
4:QE:255:PHE:O	4:QE:259:LEU:HB2	2.18	0.42
4:QE:279:GLU:HB3	37:YG:127:CYS:SG	2.59	0.42
4:QG:346:TRP:HZ3	3:QH:388:MET:HA	1.83	0.42
3:QH:249:ASP:O	3:QH:253:LEU:HG	2.19	0.42
4:QI:115:VAL:HA	4:QI:118:VAL:HG22	2.01	0.42
4:QI:234:ILE:O	4:QI:237:SER:OG	2.34	0.42
4:QI:275:VAL:O	4:QI:275:VAL:HG23	2.19	0.42
3:QJ:109:GLY:O	3:QJ:113:VAL:HG13	2.19	0.42
3:QJ:143:THR:HG22	3:QJ:147:MET:HE1	2.01	0.42
3:QJ:183:TYR:CD1	3:QJ:388:MET:HE3	2.53	0.42
3:QJ:229:VAL:O	3:QJ:233:MET:HG2	2.19	0.42
4:QK:15:GLN:CD	39:QK:501:GTP:N1	2.77	0.42
3:QL:2:ARG:HB3	3:QL:131:GLN:CD	2.44	0.42
3:QL:16:ILE:HD13	3:QL:226:ASN:ND2	2.34	0.42
3:QL:106:TYR:CD1	3:QL:403:MET:HE3	2.55	0.42
3:QL:273:LEU:H	3:QL:292:GLN:HE22	1.68	0.42
3:QL:324:LYS:HD3	4:QM:210:TYR:CE1	2.54	0.42
4:QM:184:PRO:HB2	4:QM:395:PHE:HD1	1.84	0.42
4:QM:295:CYS:HB2	4:QM:377:MET:HG2	2.01	0.42
4:QM:327:ASP:OD1	4:QM:328:VAL:N	2.52	0.42
4:QM:429:GLU:O	4:QM:433:GLU:N	2.52	0.42
27:R:153:ARG:NH2	27:R:160:ARG:HH12	2.17	0.42
27:R:266:HIS:CD2	27:R:267:ARG:HG3	2.54	0.42
31:R2:116:LEU:HB2	31:R2:148:ARG:HB3	2.01	0.42
4:RC:21:TRP:CZ2	4:RC:65:ALA:HB2	2.54	0.42
4:RC:85:GLN:HB2	37:YA:128:ASP:CG	2.44	0.42
3:RD:211:CYS:O	3:RD:216:LYS:N	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:RE:260:VAL:HG23	4:RE:265:ILE:O	2.18	0.42
3:RF:3:GLU:HA	3:RF:49:VAL:HG23	2.01	0.42
3:RF:117:LEU:HB3	3:RF:121:ARG:NH2	2.34	0.42
3:RF:286:VAL:HG11	3:RF:325:GLU:HB2	2.00	0.42
4:RG:2:ARG:NE	4:RG:242:LEU:HG	2.34	0.42
4:RG:150:ALA:O	4:RG:153:LEU:HG	2.19	0.42
3:RH:31:ASP:OD1	3:RH:35:THR:N	2.52	0.42
3:RH:152:ILE:HD12	3:RH:195:ASN:HB2	2.00	0.42
3:RH:267:MET:O	3:RH:368:ILE:HD12	2.19	0.42
3:RH:378:PHE:HA	3:RH:381:ILE:HG22	1.99	0.42
4:RI:263:PRO:HB2	4:RI:264:ARG:NH1	2.34	0.42
4:RI:301:GLN:N	4:RI:301:GLN:OE1	2.51	0.42
4:RI:332:ILE:HG13	4:RI:336:LYS:NZ	2.34	0.42
4:RI:420:GLU:HA	4:RI:423:GLU:OE2	2.19	0.42
4:RK:167:LEU:HD13	4:RK:200:CYS:HB2	2.00	0.42
4:RK:321:GLY:HA3	4:RK:372:GLN:O	2.19	0.42
4:RM:109:THR:O	4:RM:112:LYS:NZ	2.49	0.42
4:RM:265:ILE:HD12	4:RM:432:TYR:CE1	2.54	0.42
4:SC:352:LYS:NZ	3:SD:179:VAL:HG13	2.34	0.42
4:SC:428:LEU:O	4:SC:432:TYR:N	2.48	0.42
3:SD:39:ASP:OD1	3:SD:39:ASP:N	2.49	0.42
3:SD:153:SER:HB3	3:SD:191:GLN:NE2	2.34	0.42
3:SD:156:ARG:NE	3:SD:164:MET:HE3	2.34	0.42
4:SE:5:ILE:O	4:SE:136:LEU:N	2.49	0.42
4:SE:422:ARG:HA	4:SE:422:ARG:HD2	1.84	0.42
3:SF:206:ALA:O	3:SF:210:ILE:HG12	2.20	0.42
3:SF:392:LYS:HD2	3:SF:392:LYS:O	2.19	0.42
4:SG:105:ARG:O	4:SG:109:THR:OG1	2.24	0.42
4:SG:216:ASN:ND2	4:SG:275:VAL:O	2.52	0.42
4:SG:269:LEU:HD11	4:SG:384:ILE:HG21	2.01	0.42
3:SJ:109:GLY:O	3:SJ:113:VAL:HG13	2.20	0.42
3:SJ:139:LEU:N	3:SJ:168:SER:OG	2.52	0.42
4:SK:145:THR:OG1	39:SK:501:GTP:O1B	2.34	0.42
4:SK:175:PRO:HA	4:SK:390:ARG:CZ	2.50	0.42
4:SK:208:ALA:H	4:SK:304:LYS:NZ	2.13	0.42
4:SK:301:GLN:OE1	4:SK:301:GLN:N	2.52	0.42
4:SK:363:VAL:HG13	4:SK:366:GLY:HA3	1.99	0.42
3:SL:250:LEU:HD13	3:SL:253:LEU:HD12	1.99	0.42
3:SL:318:ARG:HA	3:SL:354:CYS:HB3	2.00	0.42
4:SM:36:MET:HG3	4:SM:41:THR:OG1	2.19	0.42
32:T:354:GLN:H	32:T:354:GLN:CD	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TB:350:LYS:HE3	4:TC:180:ALA:HA	2.01	0.42
3:TD:103:LYS:HD2	3:TD:104:GLY:N	2.34	0.42
3:TD:189:VAL:HA	3:TD:192:LEU:HD12	2.01	0.42
3:TD:318:ARG:C	3:TD:321:MET:HE1	2.44	0.42
4:TE:254:GLU:OE1	4:TE:254:GLU:N	2.45	0.42
3:TF:374:ILE:HG22	3:TF:378:PHE:CD2	2.54	0.42
4:TG:254:GLU:OE1	4:TG:254:GLU:N	2.46	0.42
3:TH:311:LEU:HD23	3:TH:342:VAL:HG11	2.00	0.42
3:TJ:106:TYR:HB2	3:TJ:401:GLU:OE2	2.18	0.42
3:TJ:152:ILE:C	3:TJ:195:ASN:HD21	2.27	0.42
3:TL:359:ARG:HH22	36:Z:283:GLN:HB3	1.84	0.42
4:TM:246:GLY:HA3	4:TM:355:ILE:O	2.19	0.42
3:TN:31:ASP:OD2	3:TN:35:THR:OG1	2.35	0.42
3:TN:391:ARG:C	3:TN:392:LYS:HG3	2.44	0.42
33:U:276:ALA:O	33:U:279:ARG:HG3	2.18	0.42
33:U:419:LYS:HA	33:U:422:LYS:HB3	2.01	0.42
3:UB:81:PHE:O	3:UB:84:ILE:HG22	2.18	0.42
3:UB:174:LYS:HG2	3:UB:205:GLU:OE2	2.20	0.42
3:UB:324:LYS:HE2	4:UC:222:PRO:CD	2.49	0.42
3:UD:87:PRO:HA	3:UD:90:PHE:CD2	2.54	0.42
3:UD:269:GLY:O	3:UD:367:PHE:N	2.39	0.42
4:UE:318:LEU:O	4:UE:375:VAL:HA	2.19	0.42
4:UG:35:GLN:HG2	4:UG:59:GLY:O	2.19	0.42
4:UG:90:GLU:HG2	4:UG:121:ARG:NH2	2.34	0.42
3:UH:9:ALA:HB3	3:UH:135:LEU:HD11	2.00	0.42
4:UI:229:ARG:NH1	4:UI:233:GLN:HB2	2.33	0.42
4:UI:399:TYR:CE1	4:UI:418:PHE:HB3	2.54	0.42
3:UJ:28:HIS:HD2	3:UJ:43:GLN:HB2	1.84	0.42
3:UJ:36:TYR:HE2	3:UJ:44:LEU:HD13	1.84	0.42
3:UJ:385:PHE:HZ	3:UJ:408:PHE:HB3	1.85	0.42
4:UK:54:SER:N	4:UK:62:VAL:O	2.52	0.42
4:UK:296:PHE:CE2	4:UK:335:ILE:HG21	2.54	0.42
4:VA:196:GLU:HG2	4:VA:197:HIS:ND1	2.34	0.42
4:VA:286:LEU:HD11	4:VA:373:ARG:H	1.84	0.42
3:VB:20:PHE:HA	3:VB:230:SER:HB2	2.01	0.42
3:VB:397:TRP:O	3:VB:401:GLU:N	2.42	0.42
4:VC:3:GLU:CD	4:VC:132:LEU:H	2.27	0.42
4:VC:119:LEU:HD23	4:VC:122:ILE:HD12	2.01	0.42
4:VC:288:VAL:O	4:VC:292:THR:OG1	2.31	0.42
4:VE:36:MET:HE3	4:VE:36:MET:HA	1.99	0.42
4:VE:104:ALA:HA	4:VE:107:HIS:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:VE:245:ASP:O	4:VE:356:ASN:ND2	2.52	0.42
3:VF:390:ARG:O	3:VF:390:ARG:NH1	2.46	0.42
4:VG:160:ASP:OD1	4:VG:161:TYR:N	2.51	0.42
3:VH:12:CYS:SG	39:VH:501:GTP:H5'	2.59	0.42
3:VH:130:LEU:HB2	3:VH:162:ARG:NH1	2.34	0.42
3:VH:156:ARG:CZ	3:VH:164:MET:HE3	2.49	0.42
4:VI:205:ASP:O	4:VI:209:ILE:HG12	2.18	0.42
4:VI:327:ASP:OD1	4:VI:328:VAL:N	2.51	0.42
3:VJ:268:PRO:HD2	3:VJ:301:ALA:HB2	2.00	0.42
4:VK:10:GLY:O	4:VK:14:VAL:HG13	2.18	0.42
3:VL:30:ILE:HG13	3:VL:36:TYR:HD1	1.84	0.42
3:VL:317:PHE:O	3:VL:354:CYS:N	2.34	0.42
33:W:323:GLN:O	33:W:326:LYS:HG3	2.18	0.42
3:WB:87:PRO:HA	3:WB:90:PHE:CD2	2.55	0.42
4:WC:6:SER:HA	4:WC:136:LEU:HB2	2.00	0.42
4:WC:430:LYS:HG3	4:WC:433:GLU:OE2	2.19	0.42
4:WG:182:VAL:O	4:WG:185:TYR:HB2	2.19	0.42
4:WG:271:THR:HB	4:WG:377:MET:HB3	2.00	0.42
4:WI:192:HIS:CE1	4:WI:193:THR:HG23	2.55	0.42
4:WI:213:CYS:HB3	4:WI:222:PRO:HG3	2.00	0.42
3:WJ:327:ASP:O	3:WJ:330:MET:HG2	2.19	0.42
4:WK:116:ASP:N	4:WK:116:ASP:OD1	2.49	0.42
33:X:479:ARG:HG3	33:X:480:ARG:NH1	2.33	0.42
33:X:502:ARG:NH1	33:X:506:GLU:OE1	2.51	0.42
34:XC:1:MET:HE2	34:XC:67:LYS:HD3	2.00	0.42
34:XC:39:ASP:CG	34:XC:40:ASN:H	2.27	0.42
34:XD:178:PRO:O	34:XD:182:LYS:N	2.44	0.42
34:XE:88:THR:HA	34:XE:123:MET:HE1	2.02	0.42
34:XG:81:LYS:HD3	34:XG:161:ARG:HH11	1.84	0.42
34:XG:84:LYS:HZ2	35:XM:241:ASN:H	1.67	0.42
34:XG:103:PHE:HB3	34:XG:121:MET:HE1	2.02	0.42
35:XH:69:LEU:HA	35:XH:79:ALA:H	1.85	0.42
35:XH:100:LEU:HD12	35:XH:115:ILE:HD13	2.00	0.42
35:XL:170:LEU:HD12	35:XL:173:TYR:HB2	2.00	0.42
35:XL:205:ILE:HD12	35:XL:205:ILE:H	1.84	0.42
35:XM:130:ILE:HD13	35:XM:169:ALA:HB1	2.00	0.42
37:YE:25:PHE:HE2	37:YE:69:PHE:CD1	2.37	0.42
37:YE:72:ILE:HA	37:YE:75:GLU:CD	2.44	0.42
37:YE:141:ILE:HB	37:YE:142:PRO:HD3	2.01	0.42
37:YF:110:LEU:HD23	37:YF:110:LEU:H	1.83	0.42
37:YQ:82:HIS:HE1	37:YQ:86:LEU:HD21	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:YS:18:PHE:CE1	37:YS:22:GLN:HA	2.55	0.42
37:YT:155:SER:HA	37:YT:158:LEU:HG	2.01	0.42
36:Z:231:GLU:O	36:Z:234:ALA:N	2.52	0.42
38:a:99:GLU:HB3	38:a:100:ARG:H	1.58	0.42
1:A:163:MET:HE1	3:GF:58:LYS:NZ	2.33	0.42
3:AB:223:GLY:O	3:AB:227:HIS:N	2.47	0.42
3:AB:324:LYS:HD3	4:AC:210:TYR:CE1	2.53	0.42
4:AE:329:ASN:OD1	4:AE:330:ALA:N	2.52	0.42
3:AH:82:GLY:HA2	3:AH:85:PHE:CD2	2.54	0.42
3:AH:139:LEU:HD21	3:AH:170:VAL:HG22	2.01	0.42
4:AI:192:HIS:CE1	4:AI:193:THR:HG23	2.53	0.42
3:AL:12:CYS:HB3	39:AL:501:GTP:H5'	2.01	0.42
3:AL:15:GLN:HG2	3:AL:222:TYR:CE2	2.54	0.42
3:AL:42:LEU:HD11	3:AL:356:ILE:HG21	2.01	0.42
3:AL:324:LYS:HG3	4:AM:221:ARG:NH1	2.34	0.42
4:AM:70:LEU:HB3	4:AM:97:GLU:O	2.19	0.42
1:B:307:GLU:HG3	1:B:311:ARG:NH2	2.34	0.42
5:B1:108:LEU:N	5:B1:109:PRO:HD2	2.33	0.42
5:B1:299:ARG:HA	5:B1:302:GLU:OE2	2.19	0.42
5:B2:48:GLU:HA	5:B2:51:ASN:HD21	1.84	0.42
5:B2:186:ASP:O	5:B2:190:LEU:HD23	2.19	0.42
5:B3:27:ASN:O	5:B3:30:ARG:HG2	2.19	0.42
5:B3:277:SER:HA	5:B3:280:LYS:HE2	2.00	0.42
5:B3:301:GLU:HG3	5:B3:305:ARG:NH2	2.35	0.42
5:B4:158:ALA:O	5:B4:162:LEU:HG	2.19	0.42
5:B6:11:ARG:HG2	5:B7:130:ARG:HH12	1.84	0.42
5:B8:17:TRP:HH2	5:B9:272:MET:HE1	1.83	0.42
5:B8:378:ALA:O	5:B8:381:THR:OG1	2.33	0.42
3:BB:324:LYS:HE2	4:BC:222:PRO:HG2	2.00	0.42
4:BC:2:ARG:NH1	4:BC:241:SER:O	2.52	0.42
4:BC:186:ASN:OD1	4:BC:187:SER:N	2.52	0.42
4:BC:285:GLN:NE2	4:BC:286:LEU:O	2.52	0.42
3:BD:32:PRO:C	3:BD:83:GLN:HE21	2.23	0.42
3:BD:156:ARG:CZ	3:BD:164:MET:HE3	2.49	0.42
3:BD:269:GLY:O	3:BD:367:PHE:N	2.37	0.42
4:BE:399:TYR:CE1	4:BE:418:PHE:HB3	2.54	0.42
3:BH:282:ARG:HE	3:BH:288:GLU:CD	2.27	0.42
4:BI:252:LEU:HA	4:BI:255:PHE:CD2	2.55	0.42
4:BI:260:VAL:O	3:BJ:397:TRP:HH2	2.02	0.42
4:BI:320:ARG:HD3	4:BI:360:PRO:HG3	2.00	0.42
4:BK:75:VAL:HG23	4:BK:92:LEU:HD12	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BK:331:ALA:O	4:BK:335:ILE:HG12	2.19	0.42
3:BL:304:ASP:O	3:BL:307:HIS:ND1	2.46	0.42
4:BM:117:LEU:O	4:BM:121:ARG:HG2	2.20	0.42
6:C:313:GLU:HG3	6:C:316:ASP:HB3	2.02	0.42
7:C3:187:GLU:O	7:C3:191:PRO:HD2	2.20	0.42
7:C3:194:VAL:HG11	7:C3:477:ARG:HH22	1.85	0.42
7:C4:344:ASN:C	10:E3:177:ARG:HH22	2.27	0.42
7:C6:273:HIS:O	7:C6:273:HIS:ND1	2.53	0.42
7:C7:405:ARG:HD3	7:Ca:457:HIS:ND1	2.34	0.42
7:C9:167:MET:O	7:C9:171:THR:HG23	2.20	0.42
3:CD:246:LEU:HB3	3:CD:353:VAL:O	2.19	0.42
4:CE:167:LEU:HB3	4:CE:169:PHE:CE1	2.54	0.42
4:CE:260:VAL:HG23	4:CE:265:ILE:O	2.18	0.42
4:CE:272:TYR:CE1	4:CE:374:ALA:HB1	2.53	0.42
4:CE:290:GLU:OE1	4:CE:290:GLU:N	2.38	0.42
4:CE:371:VAL:HG11	4:CE:374:ALA:HB2	2.00	0.42
3:CF:40:SER:HB3	3:CF:42:LEU:HD23	2.00	0.42
3:CF:305:PRO:HB2	3:CF:310:TYR:HE1	1.84	0.42
4:CG:90:GLU:OE1	4:CG:90:GLU:N	2.52	0.42
4:CG:140:SER:HB2	4:CG:171:ILE:HG22	2.00	0.42
3:CJ:350:LYS:HE3	4:CK:181:VAL:H	1.83	0.42
4:CK:76:ASP:O	4:CK:80:THR:N	2.50	0.42
4:CK:189:LEU:HA	4:CK:192:HIS:HD1	1.83	0.42
4:CM:90:GLU:HG2	4:CM:121:ARG:NH2	2.34	0.42
7:Cc:185:LEU:O	7:Cc:189:GLU:OE1	2.37	0.42
6:D:128:ILE:HD12	6:D:128:ILE:H	1.84	0.42
8:D2:199:ASP:O	8:D2:203:LEU:HG	2.19	0.42
8:D3:179:GLU:OE2	8:D3:296:GLN:HG3	2.19	0.42
8:D3:185:ASN:HA	8:D3:188:GLU:CD	2.45	0.42
8:D3:410:MET:SD	8:D3:414:LYS:NZ	2.93	0.42
8:D4:272:ARG:O	8:D4:276:VAL:HG23	2.19	0.42
8:D4:320:TYR:HA	8:D4:323:ARG:HH22	1.84	0.42
8:D6:356:ARG:HH12	8:D7:228:CYS:C	2.27	0.42
8:D6:380:GLU:HA	8:D6:383:GLU:HG3	1.99	0.42
8:D8:147:VAL:O	8:D8:151:ILE:HG13	2.19	0.42
4:DA:139:HIS:O	4:DA:170:ALA:HA	2.19	0.42
4:DC:260:VAL:HG23	4:DC:265:ILE:O	2.19	0.42
3:DD:14:ASN:ND2	3:DD:67:ASP:OD2	2.53	0.42
3:DF:207:LEU:CD2	3:DF:225:LEU:HD22	2.47	0.42
3:DF:282:ARG:HE	3:DF:288:GLU:CD	2.28	0.42
3:DF:308:GLY:HA3	3:DF:372:THR:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DJ:118:ASP:HA	3:DJ:121:ARG:HG2	2.01	0.42
4:DK:88:HIS:CE1	4:DK:90:GLU:HG2	2.54	0.42
4:DK:187:SER:O	4:DK:190:THR:OG1	2.26	0.42
4:DK:397:LEU:O	4:DK:401:LYS:HG2	2.20	0.42
3:DL:83:GLN:O	3:DL:86:ARG:NH2	2.52	0.42
8:Da:92:ALA:O	8:Da:96:GLN:HG3	2.19	0.42
4:EA:189:LEU:HD21	4:EA:418:PHE:CD1	2.54	0.42
4:EA:321:GLY:HA3	4:EA:372:GLN:O	2.19	0.42
4:EC:269:LEU:N	4:EC:379:SER:O	2.41	0.42
4:EC:274:PRO:HG3	4:EC:374:ALA:HA	2.02	0.42
3:ED:30:ILE:HG13	3:ED:36:TYR:CD1	2.53	0.42
3:ED:134:GLN:HA	3:ED:165:ASN:O	2.20	0.42
3:ED:217:LEU:HB2	13:G1:392:ASP:OD2	2.19	0.42
3:ED:233:MET:HB3	3:ED:233:MET:HE3	1.80	0.42
4:EE:10:GLY:O	4:EE:14:VAL:HG13	2.18	0.42
4:EE:132:LEU:HD12	4:EE:132:LEU:O	2.20	0.42
4:EE:256:GLN:O	4:EE:260:VAL:HG22	2.18	0.42
4:EG:272:TYR:CZ	4:EG:274:PRO:HG2	2.54	0.42
4:EG:280:LYS:O	4:EG:284:GLU:HB2	2.19	0.42
4:EG:338:LYS:NZ	4:EG:339:ARG:H	2.16	0.42
3:EH:28:HIS:CD2	3:EH:43:GLN:HB2	2.49	0.42
3:EH:30:ILE:HG13	3:EH:36:TYR:HD2	1.85	0.42
4:EI:189:LEU:HA	4:EI:192:HIS:ND1	2.35	0.42
4:EK:368:LEU:HD23	4:EK:368:LEU:H	1.84	0.42
3:EL:321:MET:HE2	3:EL:353:VAL:HG23	2.01	0.42
3:EL:389:PHE:O	3:EL:392:LYS:HD3	2.19	0.42
11:F2:416:LEU:O	11:F2:419:GLU:HB2	2.20	0.42
11:F3:263:ILE:HA	11:F3:266:ASN:ND2	2.34	0.42
11:F3:399:ARG:HH22	11:F3:408:CYS:H	1.67	0.42
11:F6:132:HIS:O	11:F6:135:GLN:HG3	2.19	0.42
11:F6:243:ASN:HA	11:F6:310:MET:SD	2.59	0.42
4:FA:206:ASN:OD1	4:FA:207:GLU:N	2.52	0.42
4:FC:11:GLN:HG3	39:FC:501:GTP:PG	2.59	0.42
3:FD:12:CYS:HB3	39:FD:501:GTP:O4'	2.19	0.42
3:FF:13:GLY:HA2	3:FF:16:ILE:HB	2.00	0.42
3:FF:28:HIS:O	3:FF:43:GLN:NE2	2.52	0.42
4:FG:139:HIS:HE1	4:FG:168:GLU:HB2	1.82	0.42
4:FG:246:GLY:HA2	4:FG:357:TYR:HD2	1.85	0.42
3:FH:83:GLN:OE1	3:FH:83:GLN:N	2.42	0.42
3:FH:223:GLY:HA2	3:FH:226:ASN:OD1	2.19	0.42
3:FH:391:ARG:C	3:FH:392:LYS:HG3	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FI:88:HIS:CE1	4:FI:121:ARG:HH22	2.37	0.42
4:FI:132:LEU:HD13	4:FI:164:LYS:HE2	2.00	0.42
4:FI:331:ALA:O	4:FI:335:ILE:HG12	2.18	0.42
3:FJ:52:ASN:OD1	3:FJ:62:ARG:NH1	2.51	0.42
3:FJ:152:ILE:HD12	3:FJ:195:ASN:HB2	2.00	0.42
4:FK:88:HIS:HB3	4:FK:91:GLN:HB2	2.00	0.42
4:FK:170:ALA:HB3	4:FK:203:MET:SD	2.59	0.42
4:FK:174:ALA:HB1	4:FK:207:GLU:OE2	2.19	0.42
4:FK:332:ILE:HD12	4:FK:335:ILE:HG13	2.00	0.42
11:Fa:360:GLN:HA	11:Fa:363:LYS:HG2	2.02	0.42
11:Fb:118:GLY:O	11:Fb:122:ARG:HD3	2.20	0.42
11:Fb:148:ASP:O	11:Fb:151:PHE:HB3	2.18	0.42
11:Ff:231:LYS:HA	11:Ff:234:LYS:HE2	2.01	0.42
11:Ff:425:ASP:O	11:Ff:428:GLN:HG3	2.19	0.42
11:Fi:351:THR:HG23	11:Fi:354:LYS:NZ	2.34	0.42
11:Fj:160:LEU:O	11:Fj:164:LEU:HG	2.19	0.42
11:Fl:334:LYS:O	11:Fl:337:THR:OG1	2.26	0.42
13:G2:156:LYS:HA	13:G2:163:TYR:CE2	2.53	0.42
14:G4:208:ASP:HB3	14:G4:210:PHE:CZ	2.54	0.42
14:G4:400:GLU:O	14:G4:404:ARG:N	2.52	0.42
14:G5:620:ILE:HG13	14:G5:621:ALA:N	2.33	0.42
14:G5:678:LEU:O	14:G5:682:GLU:HB3	2.19	0.42
4:GA:154:MET:HA	4:GA:157:LEU:HG	2.01	0.42
3:GB:156:ARG:HH21	3:GB:195:ASN:C	2.26	0.42
3:GB:337:ASN:HB2	3:GB:340:TYR:CD2	2.54	0.42
3:GD:101:TRP:HE1	3:GD:188:SER:HB3	1.84	0.42
4:GE:6:SER:HA	4:GE:136:LEU:HB2	2.01	0.42
4:GE:54:SER:N	4:GE:62:VAL:O	2.52	0.42
4:GE:118:VAL:HA	4:GE:121:ARG:HG2	2.01	0.42
4:GE:419:SER:O	4:GE:422:ARG:HG2	2.19	0.42
3:GF:77:ARG:HG2	23:M:115:PHE:CD2	2.55	0.42
3:GF:104:GLY:HA2	3:GF:108:GLU:HB3	2.00	0.42
3:GF:173:PRO:HD3	3:GF:203:ASP:OD1	2.19	0.42
4:GG:149:PHE:O	4:GG:152:LEU:HG	2.19	0.42
3:GH:117:LEU:HA	3:GH:120:VAL:HG22	2.01	0.42
3:GH:312:THR:OG1	3:GH:370:ASN:HB3	2.20	0.42
4:GI:14:VAL:HA	4:GI:67:PHE:HE1	1.85	0.42
3:GJ:51:TYR:HB3	3:GJ:59:TYR:HB3	2.01	0.42
4:GK:224:TYR:HE2	39:GK:501:GTP:C6	2.37	0.42
4:GK:265:ILE:HA	4:GK:267:PHE:CE2	2.54	0.42
3:GL:123:GLU:H	3:GL:123:GLU:CD	2.25	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H1:302:ASN:HA	15:H1:305:ARG:CG	2.46	0.42
15:H3:299:THR:O	15:H3:303:SER:N	2.22	0.42
15:H4:245:ASP:O	15:H4:249:LYS:HG3	2.18	0.42
15:H5:285:TYR:O	15:H5:286:MET:HE2	2.18	0.42
4:HA:14:VAL:HA	4:HA:67:PHE:HE2	1.84	0.42
4:HA:17:GLY:HA2	4:HA:20:CYS:SG	2.60	0.42
4:HA:192:HIS:CE1	4:HA:193:THR:HG23	2.54	0.42
3:HB:3:GLU:OE2	3:HB:127:CYS:HB2	2.19	0.42
3:HD:394:PHE:HA	3:HD:397:TRP:HZ3	1.84	0.42
4:HE:116:ASP:N	4:HE:116:ASP:OD1	2.48	0.42
3:HF:182:PRO:C	3:HF:388:MET:HE1	2.44	0.42
4:HG:9:VAL:HA	4:HG:68:VAL:HG23	2.00	0.42
4:HG:120:ASP:OD1	4:HG:123:ARG:NH1	2.52	0.42
4:HG:156:ARG:HA	4:HG:159:VAL:HG22	2.01	0.42
4:HG:181:VAL:HG23	4:HG:404:PHE:CE2	2.55	0.42
4:HG:256:GLN:O	4:HG:260:VAL:HG12	2.19	0.42
4:HG:297:GLU:HG2	23:M:164:SER:HB2	2.01	0.42
3:HH:36:TYR:CZ	3:HH:38:GLY:HA2	2.54	0.42
3:HH:309:ARG:HD2	3:HH:341:PHE:O	2.19	0.42
4:HI:265:ILE:HA	4:HI:267:PHE:CE2	2.54	0.42
4:HK:225:THR:O	4:HK:229:ARG:HB2	2.19	0.42
3:HL:198:GLU:HA	3:HL:266:PHE:CE2	2.51	0.42
4:IA:329:ASN:OD1	4:IA:330:ALA:N	2.53	0.42
3:IB:101:TRP:HB2	3:IB:184:ASN:HD22	1.84	0.42
3:IB:357:PRO:O	3:IB:359:ARG:NH2	2.52	0.42
4:IC:291:ILE:HD11	4:IC:319:TYR:HE2	1.84	0.42
3:ID:41:ASP:N	3:ID:41:ASP:OD1	2.51	0.42
3:ID:87:PRO:HA	3:ID:90:PHE:CD2	2.54	0.42
3:IF:217:LEU:O	3:IF:219:THR:N	2.50	0.42
3:IF:289:LEU:O	3:IF:293:MET:N	2.39	0.42
4:IG:10:GLY:O	4:IG:14:VAL:HG13	2.18	0.42
4:IG:315:CYS:HA	4:IG:379:SER:HA	2.01	0.42
4:IG:319:TYR:CD2	4:IG:323:VAL:HG11	2.55	0.42
4:II:186:ASN:HA	4:II:189:LEU:HB2	2.00	0.42
4:IK:434:GLU:HA	4:IK:437:VAL:HG12	2.00	0.42
3:IL:261:PRO:O	3:IL:264:HIS:NE2	2.51	0.42
18:J:89:GLN:HE22	3:JH:361:LEU:HA	1.84	0.42
4:JA:236:SER:O	4:JA:243:ARG:NH2	2.47	0.42
3:JB:385:PHE:HZ	3:JB:408:PHE:HB3	1.83	0.42
4:JC:386:GLU:HA	4:JC:389:ALA:HB3	2.00	0.42
3:JD:4:ILE:HB	3:JD:50:TYR:CE1	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JD:247:ASN:HB3	3:JD:252:LYS:HE3	2.01	0.42
3:JD:404:ASP:N	3:JD:404:ASP:OD1	2.52	0.42
4:JE:274:PRO:HG3	4:JE:374:ALA:HA	2.00	0.42
4:JG:89:PRO:HD2	4:KG:280:LYS:NZ	2.30	0.42
4:JG:311:LYS:NZ	4:JG:343:PHE:O	2.51	0.42
4:JI:145:THR:HG23	39:JI:501:GTP:O3B	2.19	0.42
3:JJ:130:LEU:HB2	3:JJ:162:ARG:HH11	1.84	0.42
3:JL:41:ASP:OD1	3:JL:41:ASP:N	2.50	0.42
3:JL:174:LYS:HG2	3:JL:205:GLU:OE2	2.19	0.42
3:JL:357:PRO:O	3:JL:359:ARG:NH1	2.45	0.42
21:K3:216:ASP:HA	21:K3:219:ILE:HD12	2.01	0.42
21:K4:108:ARG:O	21:K4:109:LEU:HB3	2.19	0.42
21:K4:171:GLY:HA2	21:K4:174:ILE:HG22	2.01	0.42
21:K4:200:VAL:HA	21:K4:203:LYS:HZ3	1.83	0.42
21:K4:205:GLU:HA	21:K4:208:SER:OG	2.18	0.42
21:K4:329:SER:OG	21:K4:464:ARG:NE	2.28	0.42
4:KA:186:ASN:OD1	4:KA:187:SER:N	2.51	0.42
4:KA:192:HIS:CE1	4:KA:193:THR:HG23	2.54	0.42
4:KA:286:LEU:HD23	4:KA:286:LEU:H	1.84	0.42
3:KB:70:PRO:HA	3:KB:73:MET:SD	2.58	0.42
4:KC:91:GLN:HG3	4:KC:121:ARG:HH21	1.85	0.42
3:KD:245:GLN:OE1	39:KE:501:GTP:N7	2.52	0.42
3:KD:274:THR:HG23	3:KD:278:SER:OG	2.19	0.42
3:KD:324:LYS:HG3	4:KE:221:ARG:NH1	2.34	0.42
3:KF:32:PRO:HA	3:KF:81:PHE:CE2	2.54	0.42
4:KG:36:MET:HG3	4:KG:41:THR:OG1	2.19	0.42
4:KG:88:HIS:CE1	4:LG:280:LYS:HZ3	2.37	0.42
4:KG:265:ILE:HA	4:KG:267:PHE:CE2	2.54	0.42
4:KI:70:LEU:HD13	4:KI:95:GLY:HA3	2.01	0.42
3:KJ:392:LYS:O	3:KJ:392:LYS:HD2	2.19	0.42
4:KK:137:ILE:O	4:KK:169:PHE:N	2.51	0.42
3:KL:81:PHE:O	3:KL:84:ILE:HG22	2.18	0.42
3:KL:376:GLU:OE1	3:KL:376:GLU:N	2.30	0.42
22:L1:149:LYS:HA	22:L1:149:LYS:HD3	1.96	0.42
22:L3:205:GLU:O	22:L3:209:LYS:N	2.51	0.42
22:L3:233:GLU:O	22:L3:237:LEU:N	2.49	0.42
4:LA:85:GLN:OE1	4:LA:85:GLN:N	2.36	0.42
4:LA:174:ALA:HB3	4:LA:177:VAL:O	2.19	0.42
3:LB:145:SER:HB2	3:LB:188:SER:HB3	2.01	0.42
3:LD:3:GLU:OE2	3:LD:127:CYS:HB2	2.19	0.42
3:LD:239:CYS:SG	3:LD:316:VAL:HG11	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LD:286:VAL:HA	3:LD:289:LEU:HB2	2.02	0.42
4:LE:234:ILE:O	4:LE:237:SER:OG	2.36	0.42
4:LE:331:ALA:O	4:LE:334:THR:OG1	2.22	0.42
3:LF:12:CYS:O	3:LF:16:ILE:HG12	2.18	0.42
4:LG:282:TYR:CE1	27:R:343:LEU:HB2	2.52	0.42
4:LI:115:VAL:HA	4:LI:118:VAL:HG22	2.02	0.42
4:LI:352:LYS:NZ	3:LJ:178:THR:HA	2.34	0.42
4:LK:116:ASP:OD1	4:LK:116:ASP:N	2.52	0.42
3:LL:345:ILE:HD12	3:LL:346:PRO:HD2	2.01	0.42
3:LL:385:PHE:CE2	3:LL:412:GLU:HB3	2.54	0.42
3:MB:12:CYS:HA	3:MB:15:GLN:OE1	2.19	0.42
3:MB:77:ARG:HD3	3:MB:90:PHE:CE2	2.53	0.42
4:MC:175:PRO:O	4:MC:390:ARG:HD3	2.19	0.42
4:MC:201:ALA:H	4:MC:266:HIS:HD2	1.68	0.42
3:MD:330:MET:HE1	4:ME:177:VAL:HG22	2.00	0.42
3:MD:337:ASN:HA	3:MD:340:TYR:HE1	1.83	0.42
4:ME:53:PHE:O	4:ME:64:ARG:NH1	2.52	0.42
4:ME:104:ALA:HB1	4:ME:108:TYR:HD2	1.85	0.42
4:ME:140:SER:HB2	4:ME:171:ILE:HG22	2.01	0.42
3:MF:51:TYR:CD1	3:MF:61:PRO:HA	2.54	0.42
4:MG:252:LEU:HD12	4:MG:253:THR:N	2.34	0.42
3:MH:394:PHE:HA	3:MH:397:TRP:HZ3	1.84	0.42
4:MK:32:PRO:O	4:MK:85:GLN:NE2	2.51	0.42
4:MK:202:PHE:HD1	4:MK:268:PRO:HD2	1.84	0.42
3:ML:41:ASP:OD1	3:ML:41:ASP:N	2.51	0.42
3:ML:314:ALA:HB3	3:ML:368:ILE:HG23	2.01	0.42
4:NA:46:ASP:HA	4:NA:50:ASN:HB3	2.00	0.42
4:NA:167:LEU:HB3	4:NA:169:PHE:CZ	2.54	0.42
3:NB:204:ASN:OD1	3:NB:205:GLU:N	2.53	0.42
3:NB:216:LYS:HB3	3:NB:276:ARG:NH2	2.34	0.42
4:NC:105:ARG:O	4:NC:109:THR:OG1	2.23	0.42
4:NC:196:GLU:HG2	4:NC:197:HIS:ND1	2.34	0.42
4:NC:260:VAL:HG23	4:NC:265:ILE:O	2.18	0.42
4:NE:6:SER:HB3	4:NE:65:ALA:HB2	2.00	0.42
4:NE:286:LEU:HD11	4:NE:373:ARG:H	1.85	0.42
4:NG:271:THR:HB	4:NG:377:MET:HE2	2.00	0.42
4:NI:3:GLU:N	4:NI:133:GLN:OE1	2.52	0.42
4:NI:280:LYS:HA	4:NI:280:LYS:HD2	1.78	0.42
4:NK:203:MET:HE1	4:NK:267:PHE:HB3	2.01	0.42
4:NK:256:GLN:HE22	3:NL:397:TRP:HE1	1.66	0.42
27:O:49:ARG:O	27:O:53:ILE:HG12	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:O3:94:LYS:HA	28:O3:97:HIS:NE2	2.34	0.42
3:OD:152:ILE:O	3:OD:156:ARG:HG2	2.19	0.42
3:OD:180:VAL:HG23	3:OD:183:TYR:HD2	1.84	0.42
3:OD:290:THR:HG21	3:OD:329:GLN:HB3	2.00	0.42
4:OE:117:LEU:O	4:OE:121:ARG:HG2	2.19	0.42
4:OE:143:GLY:HA3	4:OE:147:SER:H	1.83	0.42
4:OE:174:ALA:HB3	4:OE:177:VAL:O	2.19	0.42
4:OG:230:LEU:O	4:OG:234:ILE:HG12	2.19	0.42
4:OI:141:PHE:HB2	4:OI:173:PRO:HD3	2.02	0.42
4:OI:167:LEU:HB3	4:OI:169:PHE:CE1	2.54	0.42
3:OJ:375:GLN:HA	3:OJ:378:PHE:CE1	2.54	0.42
4:OK:104:ALA:O	4:OK:108:TYR:N	2.50	0.42
4:OK:386:GLU:HA	4:OK:389:ALA:HB3	2.01	0.42
29:P1:396:GLY:N	29:P1:419:GLY:HA2	2.35	0.42
29:P2:93:ILE:HG12	29:P2:114:ILE:HD13	2.01	0.42
29:P2:172:GLU:OE2	29:P2:187:LEU:N	2.52	0.42
29:P2:188:ASP:O	29:P2:192:ARG:N	2.53	0.42
29:P3:353:LYS:HG2	29:P3:354:LYS:HG2	2.00	0.42
4:PA:88:HIS:HB3	4:PA:91:GLN:HB2	2.01	0.42
3:PB:2:ARG:HA	3:PB:129:CYS:O	2.19	0.42
4:PC:398:MET:HE2	4:PC:401:LYS:HE3	2.00	0.42
4:PE:28:HIS:HB2	4:PE:30:ILE:HG12	2.00	0.42
4:PE:52:PHE:CZ	4:PE:239:THR:HB	2.54	0.42
4:PE:262:TYR:HE1	4:PE:264:ARG:NH2	2.18	0.42
4:PE:324:VAL:HG21	3:PF:219:THR:HG22	2.00	0.42
3:PF:357:PRO:O	3:PF:359:ARG:NH1	2.49	0.42
4:PI:19:ALA:HA	4:PI:22:GLU:OE1	2.19	0.42
4:PM:390:ARG:HA	4:PM:393:HIS:CD2	2.54	0.42
30:Q1:1433:THR:O	30:Q1:1437:TYR:N	2.36	0.42
30:Q1:1470:SER:HA	30:Q1:1504:LYS:HG3	2.01	0.42
30:Q2:1497:TYR:OH	30:Q2:1513:ALA:HB2	2.19	0.42
30:Q2:1500:SER:O	30:Q2:1501:LEU:HD12	2.18	0.42
3:QB:148:GLY:O	3:QB:152:ILE:HG12	2.20	0.42
3:QB:152:ILE:O	3:QB:156:ARG:HG2	2.20	0.42
4:QC:7:ILE:N	4:QC:136:LEU:O	2.30	0.42
4:QC:319:TYR:N	4:QC:354:GLY:O	2.53	0.42
3:QD:2:ARG:HB3	3:QD:131:GLN:CD	2.44	0.42
3:QD:256:ASN:HB3	3:QD:350:LYS:HG3	2.01	0.42
3:QF:3:GLU:OE2	3:QF:127:CYS:HB3	2.20	0.42
3:QF:80:PRO:O	3:QF:83:GLN:NE2	2.44	0.42
4:QG:88:HIS:HB3	4:QG:91:GLN:CG	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:QG:430:LYS:HA	4:QG:433:GLU:CD	2.43	0.42
4:QI:265:ILE:HD12	4:QI:432:TYR:CE1	2.55	0.42
3:QJ:70:PRO:HA	3:QJ:73:MET:HE3	2.01	0.42
3:QJ:247:ASN:HB3	3:QJ:252:LYS:HD2	2.01	0.42
3:QJ:290:THR:HG22	3:QJ:294:PHE:CE1	2.51	0.42
3:QJ:318:ARG:C	3:QJ:321:MET:HE1	2.44	0.42
4:QK:280:LYS:O	4:QK:284:GLU:HB2	2.19	0.42
4:QM:32:PRO:O	4:QM:85:GLN:NE2	2.51	0.42
4:QM:80:THR:HA	4:QM:84:ARG:NH1	2.34	0.42
4:QM:206:ASN:OD1	4:QM:207:GLU:N	2.53	0.42
31:R1:147:ILE:O	31:R1:147:ILE:HG22	2.18	0.42
3:RB:139:LEU:N	3:RB:168:SER:OG	2.51	0.42
3:RD:379:LYS:O	3:RD:382:SER:OG	2.28	0.42
3:RF:385:PHE:HA	3:RF:388:MET:HE2	2.01	0.42
4:RG:327:ASP:OD1	4:RG:328:VAL:N	2.52	0.42
3:RH:314:ALA:HB3	3:RH:368:ILE:HG23	2.01	0.42
3:RH:319:GLY:N	3:RH:321:MET:HE1	2.34	0.42
4:RI:40:LYS:HD2	4:RI:40:LYS:O	2.18	0.42
3:RJ:8:GLN:NE2	3:RJ:17:GLY:HA3	2.34	0.42
4:RK:230:LEU:O	4:RK:234:ILE:HG12	2.19	0.42
4:RK:367:ASP:OD1	4:RK:367:ASP:N	2.52	0.42
4:RM:286:LEU:HD23	4:RM:286:LEU:H	1.84	0.42
4:RM:333:ALA:HA	4:RM:336:LYS:HD2	2.00	0.42
3:SB:32:PRO:HA	3:SB:81:PHE:CE1	2.55	0.42
3:SB:173:PRO:HD2	3:SB:205:GLU:CD	2.44	0.42
3:SB:258:VAL:HG23	3:SB:263:LEU:HB2	2.01	0.42
3:SB:272:PRO:HA	3:SB:292:GLN:OE1	2.20	0.42
3:SB:280:GLN:H	3:SB:280:GLN:HG3	1.67	0.42
4:SC:225:THR:O	4:SC:229:ARG:HB2	2.19	0.42
3:SD:130:LEU:HB2	3:SD:162:ARG:HH11	1.83	0.42
4:SE:36:MET:HG3	4:SE:41:THR:OG1	2.19	0.42
4:SE:262:TYR:HE1	3:SF:393:ALA:HA	1.85	0.42
4:SG:136:LEU:HB3	4:SG:138:PHE:CE2	2.53	0.42
4:SG:154:MET:HA	4:SG:157:LEU:HG	2.02	0.42
4:SI:22:GLU:HG2	4:SI:83:TYR:CE2	2.54	0.42
3:SJ:8:GLN:NE2	3:SJ:17:GLY:HA3	2.35	0.42
3:SL:258:VAL:O	4:SM:407:TRP:NE1	2.49	0.42
4:SM:81:GLY:O	4:SM:84:ARG:NH1	2.52	0.42
3:TB:52:ASN:ND2	3:TB:62:ARG:HD3	2.34	0.42
3:TB:206:ALA:O	3:TB:210:ILE:HG12	2.19	0.42
4:TC:9:VAL:HG23	4:TC:149:PHE:HD2	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:TC:196:GLU:OE1	4:TC:196:GLU:N	2.51	0.42
4:TC:425:LEU:O	4:TC:428:LEU:N	2.51	0.42
3:TD:12:CYS:SG	39:TD:501:GTP:H5'	2.58	0.42
4:TE:21:TRP:HE1	4:TE:65:ALA:HB3	1.85	0.42
3:TF:285:THR:O	3:TF:288:GLU:HG3	2.19	0.42
3:TH:4:ILE:CD1	3:TH:131:GLN:HB2	2.48	0.42
3:TH:406:MET:O	3:TH:409:THR:OG1	2.25	0.42
4:TK:3:GLU:OE2	4:TK:130:THR:N	2.37	0.42
4:TM:318:LEU:O	4:TM:375:VAL:HA	2.19	0.42
3:TN:51:TYR:CD1	3:TN:61:PRO:HA	2.54	0.42
3:TN:267:MET:HE1	3:TN:371:SER:H	1.84	0.42
33:U:152:LYS:HE2	33:U:156:TRP:CH2	2.54	0.42
33:U:274:LEU:O	33:U:277:GLU:HG3	2.20	0.42
4:UA:47:ASP:HB3	4:UA:49:PHE:CE2	2.54	0.42
4:UA:292:THR:HA	4:UA:295:CYS:SG	2.60	0.42
3:UB:32:PRO:HA	3:UB:81:PHE:CE1	2.54	0.42
4:UC:9:VAL:HA	4:UC:68:VAL:HG23	2.00	0.42
4:UC:327:ASP:OD1	4:UC:328:VAL:N	2.52	0.42
3:UD:257:MET:O	3:UD:259:PRO:HD3	2.20	0.42
3:UF:375:GLN:HA	3:UF:378:PHE:CE1	2.54	0.42
4:UG:81:GLY:O	4:UG:84:ARG:NH1	2.52	0.42
4:UG:271:THR:HA	4:UG:302:MET:HE1	2.01	0.42
3:UH:58:LYS:HE2	3:VH:281:TYR:HE1	1.84	0.42
3:UH:324:LYS:HG3	4:UI:221:ARG:NH1	2.35	0.42
4:UI:254:GLU:OE1	4:UI:254:GLU:N	2.46	0.42
3:UJ:246:LEU:HD22	3:UJ:354:CYS:HA	2.01	0.42
4:UK:174:ALA:HB3	4:UK:177:VAL:O	2.20	0.42
4:VA:285:GLN:NE2	4:VA:286:LEU:O	2.52	0.42
4:VA:317:MET:HB2	4:VA:375:VAL:HG21	2.00	0.42
3:VB:48:ASN:HA	3:VB:51:TYR:O	2.19	0.42
4:VC:11:GLN:O	4:VC:14:VAL:HG22	2.19	0.42
4:VC:25:CYS:O	4:VC:30:ILE:N	2.49	0.42
4:VC:265:ILE:HD12	4:VC:432:TYR:CE1	2.54	0.42
4:VC:295:CYS:HB2	4:VC:377:MET:HG2	2.01	0.42
3:VD:77:ARG:HD3	3:VD:90:PHE:HE2	1.85	0.42
3:VD:164:MET:SD	3:VD:195:ASN:O	2.77	0.42
3:VD:269:GLY:HA2	3:VD:300:MET:HE1	2.02	0.42
3:VD:385:PHE:HA	3:VD:388:MET:HE2	2.01	0.42
4:VE:192:HIS:CE1	4:VE:193:THR:HG23	2.54	0.42
4:VE:196:GLU:OE1	4:VE:196:GLU:N	2.46	0.42
4:VE:229:ARG:HE	4:VE:368:LEU:HD22	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:VE:252:LEU:HA	4:VE:255:PHE:CD2	2.55	0.42
4:VE:260:VAL:HG23	4:VE:265:ILE:O	2.19	0.42
3:VH:119:VAL:HA	3:VH:122:LYS:HE2	2.01	0.42
3:VH:317:PHE:HE2	3:VH:326:VAL:HG23	1.84	0.42
3:VJ:389:PHE:HZ	3:VJ:405:GLU:HB2	1.84	0.42
3:VL:39:ASP:OD1	3:VL:43:GLN:NE2	2.53	0.42
4:WA:397:LEU:O	4:WA:401:LYS:HG2	2.19	0.42
3:WB:81:PHE:O	3:WB:84:ILE:HG22	2.19	0.42
4:WC:114:ILE:O	4:WC:118:VAL:HG23	2.19	0.42
4:WC:235:VAL:HA	4:WC:238:ILE:HG12	2.01	0.42
4:WE:251:ASP:HB3	4:WE:254:GLU:OE1	2.18	0.42
3:WF:51:TYR:CD1	3:WF:61:PRO:HA	2.55	0.42
3:WF:309:ARG:HH21	3:WF:426:GLN:HG2	1.84	0.42
4:WG:108:TYR:CE2	4:WG:413:MET:HE1	2.54	0.42
4:WG:263:PRO:HB2	4:WG:264:ARG:NH1	2.34	0.42
4:WG:434:GLU:HA	4:WG:437:VAL:HG22	2.02	0.42
3:WH:271:ALA:HB2	3:WH:365:ALA:HB3	2.01	0.42
3:WH:378:PHE:HA	3:WH:381:ILE:HG22	2.00	0.42
4:WI:16:ILE:HG13	4:WI:17:GLY:N	2.33	0.42
4:WI:139:HIS:O	4:WI:170:ALA:HA	2.19	0.42
4:WK:11:GLN:HA	4:WK:14:VAL:HG22	2.01	0.42
4:WK:117:LEU:O	4:WK:121:ARG:HG2	2.20	0.42
3:WL:376:GLU:H	3:WL:376:GLU:CD	2.27	0.42
33:X:499:GLU:O	33:X:503:LEU:HG	2.20	0.42
34:XA:80:ILE:HD13	34:XA:162:ILE:HD13	2.02	0.42
34:XD:26:ASP:O	34:XD:28:LYS:NZ	2.45	0.42
34:XE:26:ASP:OD1	34:XE:26:ASP:N	2.51	0.42
34:XF:85:LYS:HB3	34:XF:159:ASN:HB3	2.01	0.42
34:XF:90:GLU:HG2	34:XF:153:ARG:HH12	1.83	0.42
34:XF:160:CYS:SG	34:XF:162:ILE:HD11	2.60	0.42
34:XG:133:GLN:OE1	34:XG:133:GLN:N	2.52	0.42
35:XI:146:ARG:HE	35:XI:149:ILE:HD11	1.84	0.42
35:XI:217:GLU:OE2	35:XI:235:TYR:OH	2.32	0.42
35:XJ:78:ILE:CG2	35:XJ:113:ARG:HE	2.33	0.42
35:XJ:138:LYS:HA	35:XJ:141:LEU:HD12	2.01	0.42
35:XL:103:MET:HE1	35:XL:143:LEU:HD13	2.01	0.42
35:XL:156:LEU:HD13	35:XL:159:LEU:HD12	2.01	0.42
35:XL:158:HIS:O	35:XL:162:SER:OG	2.28	0.42
36:Y:215:GLN:HA	36:Y:218:GLU:OE1	2.20	0.42
37:YB:22:GLN:OE1	37:YB:22:GLN:N	2.45	0.42
37:YG:143:ILE:HG23	37:YG:147:PHE:CE2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:YH:81:GLN:HA	37:YH:84:GLU:CD	2.43	0.42
37:YI:25:PHE:HA	37:YI:65:ILE:HD12	2.01	0.42
37:YI:41:ARG:O	37:YI:133:HIS:ND1	2.53	0.42
37:YL:55:HIS:ND1	37:YL:56:TYR:HD2	2.17	0.42
37:YN:103:LEU:HD23	37:YN:103:LEU:HA	1.90	0.42
37:YU:41:ARG:NH1	37:YU:48:GLN:OE1	2.52	0.42
37:YV:80:CYS:HA	37:YV:83:PHE:CD1	2.53	0.42
37:YV:117:TYR:CG	37:YV:118:PRO:HA	2.55	0.42
37:YV:155:SER:HA	37:YV:158:LEU:HG	2.01	0.42
37:YW:6:GLU:HA	37:YW:9:ARG:NH1	2.33	0.42
1:A:70:GLU:HG3	1:A:74:GLN:CD	2.44	0.42
1:A:157:GLU:O	1:A:161:ILE:HG12	2.20	0.42
1:A:293:GLU:OE2	1:A:297:GLN:NE2	2.52	0.42
2:A1:95:LYS:HE2	2:A1:154:LEU:HA	2.02	0.42
2:A1:237:ALA:O	2:A1:241:LEU:HD23	2.19	0.42
2:A1:311:LYS:HZ2	2:A2:198:ILE:HB	1.85	0.42
2:A2:73:TRP:CZ3	2:A2:217:TRP:CD1	3.06	0.42
2:A2:323:ARG:HB3	2:A2:327:GLU:HB2	2.01	0.42
2:A2:388:VAL:HG13	2:A2:389:LEU:HG	2.01	0.42
2:A3:148:ASN:HA	2:A3:151:ILE:HD12	2.01	0.42
2:A3:367:ARG:NH2	14:G6:179:LYS:C	2.78	0.42
2:A4:196:PRO:HB3	7:C4:255:GLU:OE2	2.20	0.42
3:AB:12:CYS:CB	39:AB:501:GTP:H5'	2.49	0.42
4:AC:2:ARG:NH1	4:AC:241:SER:O	2.52	0.42
4:AC:202:PHE:CD1	4:AC:268:PRO:HD2	2.54	0.42
3:AD:174:LYS:HG2	3:AD:205:GLU:OE2	2.19	0.42
3:AD:180:VAL:HG23	3:AD:183:TYR:HD2	1.84	0.42
4:AE:278:ALA:O	4:AE:370:LYS:NZ	2.53	0.42
3:AF:2:ARG:HB3	3:AF:131:GLN:CD	2.44	0.42
3:AF:214:THR:HG23	3:AF:215:LEU:HD22	2.01	0.42
3:AF:223:GLY:HA2	3:AF:226:ASN:ND2	2.35	0.42
4:AG:90:GLU:HG2	4:AG:121:ARG:NH2	2.34	0.42
4:AG:389:ALA:O	4:AG:393:HIS:HD2	2.03	0.42
3:AH:350:LYS:HE3	4:AI:181:VAL:N	2.31	0.42
3:AJ:31:ASP:OD2	3:AJ:35:THR:OG1	2.30	0.42
4:AK:283:HIS:HE1	4:MK:88:HIS:HA	1.84	0.42
1:B:321:GLN:CA	3:HL:359:ARG:HH22	2.32	0.42
5:B2:342:VAL:O	5:B2:346:GLU:OE1	2.37	0.42
5:B3:102:ASN:O	5:B3:106:LYS:NZ	2.44	0.42
5:B3:165:LEU:HD21	5:B3:232:GLU:HB3	2.02	0.42
5:B3:414:THR:HB	5:B3:417:ARG:NH1	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B4:70:THR:HB	5:B4:74:TRP:HZ3	1.84	0.42
5:B7:75:LYS:HA	5:B7:179:LYS:CE	2.44	0.42
5:B8:280:LYS:O	5:B8:283:GLU:HG3	2.18	0.42
4:BC:6:SER:HA	4:BC:136:LEU:HB2	2.02	0.42
4:BC:154:MET:HE3	4:BC:194:THR:HG22	2.01	0.42
3:BD:203:ASP:OD2	3:BD:205:GLU:HB2	2.19	0.42
4:BE:320:ARG:CZ	4:BE:360:PRO:HA	2.49	0.42
4:BG:390:ARG:O	4:BG:394:LYS:HG3	2.19	0.42
3:BH:343:GLU:OE1	3:BH:343:GLU:N	2.53	0.42
4:BI:234:ILE:HD11	4:BI:272:TYR:HB2	2.00	0.42
4:BI:320:ARG:HG2	4:BI:358:GLN:O	2.19	0.42
3:BJ:250:LEU:HD13	3:BJ:253:LEU:HD12	2.01	0.42
3:BL:2:ARG:HB3	3:BL:131:GLN:CD	2.44	0.42
3:BL:376:GLU:H	3:BL:376:GLU:CD	2.25	0.42
4:BM:16:ILE:HG13	4:BM:17:GLY:N	2.33	0.42
6:C:314:TYR:O	6:C:317:MET:HG2	2.20	0.42
7:C3:296:VAL:HG12	7:C3:298:GLU:OE1	2.19	0.42
7:C4:219:LEU:O	7:C4:222:GLU:HG3	2.18	0.42
7:C5:406:ARG:NH1	7:C5:412:CYS:H	2.17	0.42
7:C7:285:ARG:HD2	7:C7:286:GLY:N	2.33	0.42
7:C8:114:ARG:NH2	7:C9:368:THR:OG1	2.51	0.42
7:C8:177:ILE:HD13	7:C8:322:ARG:HB3	2.01	0.42
7:C8:302:LYS:NZ	10:E3:67:LEU:HB3	2.35	0.42
3:CB:324:LYS:HE2	4:CC:222:PRO:CG	2.49	0.42
3:CB:374:ILE:HG22	3:CB:378:PHE:CD2	2.53	0.42
4:CE:301:GLN:OE1	4:CE:301:GLN:N	2.53	0.42
4:CE:356:ASN:OD1	4:CE:358:GLN:HB3	2.18	0.42
4:CE:390:ARG:HA	4:CE:393:HIS:CD2	2.55	0.42
3:CF:12:CYS:SG	3:CF:13:GLY:N	2.92	0.42
3:CF:45:GLU:OE1	15:H3:223:GLY:HA3	2.20	0.42
4:CG:322:ASP:OD1	4:CG:322:ASP:N	2.52	0.42
4:CG:327:ASP:OD1	4:CG:328:VAL:N	2.52	0.42
4:CI:405:VAL:O	4:CI:409:VAL:HG22	2.19	0.42
3:CL:3:GLU:OE2	3:CL:129:CYS:N	2.53	0.42
3:CL:117:LEU:HD11	3:CL:154:LYS:HD2	2.01	0.42
3:CL:138:SER:HB2	3:CL:169:VAL:HG12	2.01	0.42
4:CM:224:TYR:HB3	4:CM:228:ASN:HD21	1.81	0.42
4:CM:415:GLU:HA	4:CM:418:PHE:HD2	1.84	0.42
6:D:84:LYS:HG2	6:D:85:VAL:N	2.34	0.42
6:D:286:GLY:O	6:D:332:GLN:HB2	2.19	0.42
8:D3:436:ARG:HH22	27:Q:9:LEU:HD11	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:D4:251:ALA:H	8:D5:370:ARG:NH1	2.18	0.42
8:D5:415:ASP:HB3	8:D5:419:LYS:HZ1	1.83	0.42
8:D8:385:ASN:O	8:D8:388:LEU:HG	2.19	0.42
8:D9:373:ALA:HA	8:D9:376:ARG:HG2	2.02	0.42
8:D9:423:LEU:HB3	8:D9:427:ARG:HH11	1.84	0.42
4:DA:386:GLU:OE1	4:DA:386:GLU:N	2.49	0.42
4:DC:263:PRO:HB2	4:DC:264:ARG:NH1	2.34	0.42
4:DC:272:TYR:CE1	4:DC:374:ALA:HB1	2.55	0.42
3:DD:3:GLU:OE1	3:DD:3:GLU:N	2.52	0.42
3:DD:51:TYR:CD1	3:DD:61:PRO:HA	2.54	0.42
3:DD:73:MET:HE2	3:DD:92:PHE:CE2	2.55	0.42
3:DF:41:ASP:N	3:DF:41:ASP:OD1	2.51	0.42
3:DF:229:VAL:O	3:DF:232:THR:OG1	2.36	0.42
4:DG:36:MET:HE3	4:DG:61:HIS:CE1	2.54	0.42
4:DG:88:HIS:HA	4:EG:283:HIS:HE1	1.84	0.42
3:DH:350:LYS:HE3	4:DI:181:VAL:N	2.32	0.42
3:DJ:8:GLN:HB3	3:DJ:65:LEU:HA	2.01	0.42
4:DK:245:ASP:HB2	4:DK:357:TYR:HE2	1.85	0.42
3:DL:84:ILE:C	3:DL:86:ARG:HH22	2.27	0.42
10:E1:1:MET:HE3	10:E1:2:GLU:OE2	2.19	0.42
10:E1:48:ARG:HB3	10:E1:63:TRP:NE1	2.34	0.42
4:EA:192:HIS:CE1	4:EA:193:THR:HG23	2.55	0.42
4:EA:313:MET:SD	4:EA:313:MET:N	2.93	0.42
4:EC:279:GLU:O	4:EC:283:HIS:HD2	2.03	0.42
3:ED:150:LEU:C	3:ED:154:LYS:HZ3	2.28	0.42
3:ED:192:LEU:O	3:ED:196:THR:HG22	2.19	0.42
3:ED:392:LYS:O	3:ED:392:LYS:HD2	2.19	0.42
3:ED:406:MET:SD	3:ED:407:GLU:N	2.93	0.42
4:EE:252:LEU:HA	4:EE:255:PHE:HD2	1.80	0.42
3:EF:249:ASP:O	3:EF:253:LEU:HG	2.19	0.42
3:EF:269:GLY:HA3	3:EF:367:PHE:HB3	2.02	0.42
3:EH:8:GLN:HG2	3:EH:65:LEU:HA	2.01	0.42
3:EH:175:VAL:HG22	3:EH:177:ASP:H	1.83	0.42
4:EI:40:LYS:HE2	4:EI:40:LYS:HB2	1.85	0.42
4:EI:318:LEU:O	4:EI:375:VAL:HA	2.19	0.42
4:EI:319:TYR:HD2	4:EI:323:VAL:HG11	1.84	0.42
3:EJ:313:VAL:HG23	3:EJ:349:VAL:HA	2.01	0.42
4:EK:262:TYR:OH	3:EL:391:ARG:O	2.37	0.42
4:EK:331:ALA:O	4:EK:335:ILE:HG12	2.19	0.42
3:EL:320:ARG:HD2	3:EL:355:ASP:O	2.19	0.42
11:F3:404:ASN:O	11:F3:406:GLU:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:F6:250:LEU:HA	11:F6:253:ASP:OD2	2.19	0.42
11:F7:248:HIS:O	11:F7:252:ARG:HG3	2.19	0.42
11:F8:209:ASP:HB3	11:F8:346:ARG:NH2	2.33	0.42
11:F8:346:ARG:O	11:F8:349:GLU:HG2	2.19	0.42
11:F9:412:PRO:HA	11:F9:415:ARG:HH21	1.84	0.42
4:FA:265:ILE:HD12	4:FA:432:TYR:CE1	2.54	0.42
4:FA:438:ASP:C	3:FB:391:ARG:HH12	2.28	0.42
3:FB:114:ASP:OD1	3:FB:114:ASP:N	2.48	0.42
3:FB:192:LEU:O	3:FB:196:THR:HG22	2.19	0.42
4:FC:6:SER:HB3	4:FC:65:ALA:HB2	2.01	0.42
4:FC:36:MET:HE3	4:FC:37:PRO:HD3	2.01	0.42
4:FC:145:THR:HG23	39:FC:501:GTP:O3B	2.20	0.42
4:FE:424:ASP:O	4:FE:428:LEU:HG	2.19	0.42
3:FF:172:SER:HB3	3:FF:205:GLU:OE2	2.20	0.42
4:FG:145:THR:HG23	39:FG:501:GTP:O3B	2.18	0.42
4:FG:176:GLN:NE2	4:FG:177:VAL:HG23	2.34	0.42
3:FH:148:GLY:O	3:FH:152:ILE:HG12	2.19	0.42
3:FH:187:LEU:HD21	3:FH:408:PHE:HE1	1.83	0.42
3:FJ:120:VAL:O	3:FJ:124:ALA:N	2.48	0.42
3:FJ:183:TYR:HE1	3:FJ:389:PHE:CE1	2.37	0.42
4:FK:174:ALA:HB3	4:FK:177:VAL:O	2.20	0.42
4:FK:316:CYS:O	4:FK:378:LEU:N	2.35	0.42
4:FK:386:GLU:HA	4:FK:389:ALA:HB3	2.02	0.42
3:FL:149:THR:HA	3:FL:152:ILE:HG12	2.00	0.42
11:Fc:184:VAL:O	11:Fc:187:PRO:HD2	2.19	0.42
11:Fc:244:ARG:HA	11:Fc:247:GLN:HG3	2.02	0.42
11:Fe:448:LYS:HE3	11:Fe:448:LYS:HB3	1.78	0.42
11:Ff:218:GLU:HB3	11:Ff:335:GLN:HG2	2.01	0.42
11:Fg:153:LYS:NZ	11:Fg:257:LYS:HB3	2.34	0.42
11:Fg:240:ILE:HG22	11:Fg:244:ARG:CZ	2.50	0.42
11:Fh:361:LEU:HA	11:Fh:364:ILE:HD12	2.01	0.42
11:Fk:127:LYS:HA	11:Fk:130:LEU:HG	2.01	0.42
11:Fk:145:ARG:NH1	11:Fk:290:VAL:O	2.52	0.42
11:Fl:246:ALA:O	11:Fl:249:SER:OG	2.25	0.42
13:G1:251:ASP:O	13:G1:257:GLY:HA3	2.19	0.42
13:G1:275:ILE:HG22	13:G1:291:LEU:HB3	2.00	0.42
13:G1:422:TYR:HB2	13:G1:440:PHE:CD2	2.55	0.42
13:G2:522:GLN:OE1	13:G2:522:GLN:N	2.38	0.42
13:G3:275:ILE:HG22	13:G3:291:LEU:HB3	2.01	0.42
13:G3:336:THR:HA	13:G3:341:THR:HA	2.01	0.42
14:G4:482:LYS:HE2	14:G4:482:LYS:HB2	1.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G6:6:LEU:HB2	14:G6:9:ASN:OD1	2.20	0.42
14:G6:560:ARG:HD2	14:G6:560:ARG:HA	1.74	0.42
14:G6:577:VAL:HG12	14:G6:733:VAL:O	2.19	0.42
14:G6:649:LYS:NZ	14:G6:653:LEU:HD13	2.34	0.42
3:GB:245:GLN:HE22	4:GC:15:GLN:HE22	1.67	0.42
3:GB:251:ARG:O	3:GB:255:VAL:HG22	2.20	0.42
4:GC:87:PHE:HB3	4:GC:92:LEU:HD21	2.01	0.42
4:GC:165:SER:C	4:GC:166:LYS:HD2	2.44	0.42
4:GC:260:VAL:O	3:GD:397:TRP:HH2	2.02	0.42
3:GD:130:LEU:HB3	3:GD:162:ARG:NH1	2.34	0.42
3:GD:132:GLY:HA2	3:GD:162:ARG:HB3	2.01	0.42
3:GD:151:LEU:O	3:GD:155:ILE:HG23	2.20	0.42
3:GD:205:GLU:HA	3:GD:208:TYR:CD2	2.53	0.42
3:GD:324:LYS:HG3	4:GE:221:ARG:NH1	2.35	0.42
4:GE:32:PRO:HD3	23:M:78:TYR:CE1	2.54	0.42
4:GE:132:LEU:O	4:GE:132:LEU:HD12	2.19	0.42
4:GE:145:THR:HG1	39:GE:501:GTP:PB	2.42	0.42
4:GG:96:LYS:HG2	23:M:139:VAL:HA	2.00	0.42
4:GG:168:GLU:HB2	4:GG:201:ALA:HA	2.01	0.42
3:GH:113:VAL:HA	3:GH:116:VAL:HG12	2.02	0.42
3:GH:182:PRO:HB2	3:GH:388:MET:HE1	2.01	0.42
3:GH:217:LEU:O	3:GH:219:THR:N	2.50	0.42
4:GI:22:GLU:HG2	4:GI:83:TYR:CE2	2.53	0.42
4:GI:226:ASN:ND2	4:GI:367:ASP:OD2	2.52	0.42
4:GI:263:PRO:HB2	4:GI:264:ARG:CZ	2.49	0.42
4:GK:182:VAL:HA	4:GK:185:TYR:HD2	1.85	0.42
4:GK:389:ALA:HA	4:GK:392:ASP:OD2	2.19	0.42
15:H3:244:MET:HA	15:H3:247:PHE:HB3	2.01	0.42
15:H6:292:MET:O	15:H6:293:GLN:C	2.62	0.42
3:HB:2:ARG:HA	3:HB:129:CYS:O	2.20	0.42
4:HC:390:ARG:HA	4:HC:393:HIS:CD2	2.54	0.42
3:HD:117:LEU:O	3:HD:121:ARG:HG3	2.20	0.42
3:HD:259:PRO:HA	4:HE:404:PHE:CD1	2.54	0.42
4:HG:55:GLU:HB2	4:HG:61:HIS:CD2	2.54	0.42
4:HG:137:ILE:HB	4:HG:168:GLU:HG3	2.00	0.42
4:HG:391:LEU:HB3	4:HG:395:PHE:CE2	2.55	0.42
4:HI:1:MET:HE1	4:HI:51:THR:HG22	2.01	0.42
4:HI:5:ILE:O	4:HI:135:PHE:HA	2.20	0.42
3:HJ:313:VAL:O	3:HJ:349:VAL:HA	2.20	0.42
3:HL:47:ILE:HG12	3:HL:59:TYR:CD2	2.54	0.42
3:HL:318:ARG:HG3	3:HL:354:CYS:SG	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HL:342:VAL:HB	3:HL:344:TRP:CE3	2.50	0.42
3:HL:391:ARG:C	3:HL:392:LYS:HG3	2.45	0.42
17:I2:60:SER:HA	17:I2:63:LEU:HG	2.02	0.42
4:IA:42:ILE:HG12	4:IA:55:GLU:OE2	2.20	0.42
3:ID:174:LYS:HG2	3:ID:205:GLU:OE2	2.18	0.42
4:IG:88:HIS:CD2	4:IG:90:GLU:HG2	2.54	0.42
4:IG:122:ILE:O	4:IG:126:ALA:N	2.52	0.42
3:IH:12:CYS:HB3	39:IH:501:GTP:H5'	2.02	0.42
3:IH:305:PRO:HA	3:IH:373:ALA:HB2	2.02	0.42
4:II:88:HIS:HB3	4:II:91:GLN:HB3	2.02	0.42
4:II:252:LEU:HA	4:II:255:PHE:CD2	2.51	0.42
4:II:280:LYS:HZ1	4:II:284:GLU:CD	2.28	0.42
4:II:329:ASN:OD1	4:II:330:ALA:N	2.53	0.42
3:IJ:173:PRO:HD2	3:IJ:205:GLU:CD	2.45	0.42
3:IJ:205:GLU:HA	3:IJ:208:TYR:CD2	2.54	0.42
3:IJ:217:LEU:O	3:IJ:219:THR:N	2.50	0.42
4:IK:23:LEU:HD11	4:IK:363:VAL:HB	2.02	0.42
4:IK:146:GLY:N	39:IK:501:GTP:O2B	2.46	0.42
3:IL:30:ILE:HG13	3:IL:36:TYR:HD1	1.84	0.42
3:IL:135:LEU:O	3:IL:167:PHE:N	2.53	0.42
3:IL:325:GLU:O	3:IL:328:GLU:HG3	2.20	0.42
4:IM:393:HIS:HA	4:IM:396:ASP:CG	2.44	0.42
18:J:71:TYR:O	18:J:75:LYS:HG3	2.19	0.42
19:J1:25:THR:H	19:J1:28:LEU:HB3	1.84	0.42
19:J1:91:ILE:O	19:J1:94:VAL:N	2.44	0.42
19:J1:151:GLN:O	19:J1:155:TYR:N	2.50	0.42
3:JB:190:HIS:ND1	3:JB:411:ALA:HA	2.34	0.42
3:JB:246:LEU:HB3	3:JB:353:VAL:O	2.19	0.42
4:JC:104:ALA:HB1	4:JC:108:TYR:HD2	1.84	0.42
4:JC:333:ALA:O	4:JC:337:THR:HG23	2.20	0.42
3:JH:12:CYS:HA	3:JH:15:GLN:OE1	2.19	0.42
3:JH:392:LYS:HD2	3:JH:392:LYS:O	2.19	0.42
4:JI:1:MET:SD	4:JI:2:ARG:N	2.93	0.42
3:JL:156:ARG:CZ	3:JL:164:MET:HE3	2.49	0.42
20:K:176:SER:N	20:K:181:LEU:O	2.47	0.42
21:K1:379:LYS:NZ	24:M1:50:GLY:HA3	2.34	0.42
21:K1:420:ASP:HB3	21:K1:424:ARG:NH2	2.33	0.42
21:K2:198:LEU:O	21:K2:202:GLU:HG3	2.20	0.42
21:K3:346:LEU:HD13	21:K4:21:TRP:HD1	1.83	0.42
21:K3:488:THR:HA	21:K3:491:ARG:CZ	2.48	0.42
21:K3:491:ARG:HD2	3:LH:306:ARG:HG3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:K4:162:ASP:OD1	31:R3:282:HIS:NE2	2.53	0.42
21:K4:425:HIS:CE1	21:K5:109:LEU:HD21	2.54	0.42
21:K4:488:THR:HA	21:K4:491:ARG:CZ	2.49	0.42
3:KB:1:MET:HG2	3:KB:2:ARG:N	2.34	0.42
4:KC:161:TYR:O	4:KC:166:LYS:NZ	2.52	0.42
4:KC:188:ILE:HG22	4:KC:421:ALA:HB1	2.01	0.42
4:KC:216:ASN:HD21	4:KC:275:VAL:HG23	1.84	0.42
3:KD:7:LEU:HB2	3:KD:135:LEU:HG	2.01	0.42
3:KD:55:THR:O	3:KD:58:LYS:HE2	2.20	0.42
4:KE:229:ARG:CZ	4:KE:366:GLY:HA2	2.48	0.42
4:KE:325:PRO:HB2	3:KF:208:TYR:OH	2.19	0.42
3:KF:182:PRO:HA	3:KF:381:ILE:HD11	2.00	0.42
4:KG:189:LEU:HD11	4:KG:418:PHE:CZ	2.55	0.42
3:KH:132:GLY:HA2	3:KH:162:ARG:HB3	2.01	0.42
3:KH:303:CYS:O	3:KH:305:PRO:HD3	2.19	0.42
4:KI:91:GLN:HG3	4:KI:121:ARG:HH21	1.84	0.42
4:KI:161:TYR:HB3	4:KI:164:LYS:HZ3	1.84	0.42
4:KK:132:LEU:HD13	4:KK:164:LYS:HE2	2.00	0.42
4:KK:161:TYR:O	4:KK:166:LYS:NZ	2.53	0.42
4:KK:196:GLU:OE1	4:KK:196:GLU:N	2.49	0.42
4:KK:260:VAL:O	3:KL:397:TRP:HH2	2.02	0.42
3:KL:32:PRO:C	3:KL:83:GLN:HE21	2.24	0.42
20:L:52:ARG:CZ	20:L:52:ARG:HA	2.49	0.42
20:L:224:HIS:NE2	20:L:226:HIS:HB3	2.34	0.42
22:L3:208:HIS:HA	22:L3:211:PHE:HD2	1.85	0.42
4:LA:385:ALA:HB2	4:LA:432:TYR:HD2	1.85	0.42
3:LB:77:ARG:O	3:LB:82:GLY:HA3	2.19	0.42
3:LB:227:HIS:CG	27:Q:142:MET:HE1	2.55	0.42
4:LC:160:ASP:OD1	4:LC:161:TYR:N	2.52	0.42
4:LC:331:ALA:O	4:LC:335:ILE:HG12	2.20	0.42
3:LJ:4:ILE:HB	3:LJ:50:TYR:CE1	2.54	0.42
3:LJ:114:ASP:N	3:LJ:114:ASP:OD1	2.52	0.42
3:LJ:117:LEU:HB3	3:LJ:121:ARG:NH2	2.34	0.42
4:LK:140:SER:HB2	4:LK:171:ILE:HG22	2.00	0.42
3:LL:378:PHE:CE1	3:LL:419:VAL:HG22	2.55	0.42
23:M:162:ARG:NE	23:M:162:ARG:HA	2.34	0.42
24:M2:67:ARG:HG3	24:M2:68:ASN:H	1.83	0.42
3:MD:211:CYS:HA	3:MD:215:LEU:HD23	2.02	0.42
3:MD:348:ASN:HA	3:MD:350:LYS:HZ3	1.84	0.42
4:ME:22:GLU:HG2	4:ME:83:TYR:CE2	2.54	0.42
4:ME:207:GLU:HB2	4:ME:304:LYS:HZ1	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MF:30:ILE:HG13	3:MF:36:TYR:CD1	2.54	0.42
3:MF:362:LYS:HG2	27:P:242:GLU:OE1	2.20	0.42
4:MG:346:TRP:HB3	3:MH:391:ARG:NH2	2.35	0.42
4:MI:251:ASP:HB3	4:MI:254:GLU:OE1	2.19	0.42
3:MJ:325:GLU:HA	3:MJ:328:GLU:HG3	2.01	0.42
4:MK:271:THR:O	4:MK:377:MET:N	2.26	0.42
4:MM:90:GLU:HG2	4:MM:121:ARG:NH2	2.35	0.42
3:NB:278:SER:HA	3:NB:281:TYR:HB2	2.02	0.42
4:NC:54:SER:N	4:NC:62:VAL:O	2.51	0.42
4:NC:67:PHE:O	4:NC:93:ILE:N	2.53	0.42
4:NC:154:MET:HA	4:NC:157:LEU:HG	2.01	0.42
4:NC:318:LEU:O	4:NC:375:VAL:HA	2.19	0.42
3:ND:174:LYS:HG2	3:ND:205:GLU:OE2	2.18	0.42
4:NG:213:CYS:O	4:NG:218:ASP:N	2.52	0.42
4:NG:260:VAL:O	3:NH:397:TRP:HH2	2.02	0.42
3:NH:267:MET:HB3	3:NH:299:MET:CE	2.48	0.42
4:NI:23:LEU:HD11	4:NI:229:ARG:HA	2.01	0.42
4:NI:423:GLU:HA	4:NI:426:ALA:HB3	2.01	0.42
3:NJ:324:LYS:HE2	4:NK:222:PRO:CD	2.49	0.42
4:NK:16:ILE:HB	4:NK:231:ILE:HD11	2.00	0.42
3:NL:282:ARG:HE	3:NL:288:GLU:CD	2.28	0.42
3:NL:392:LYS:HB2	3:NL:395:LEU:HD12	2.01	0.42
4:OA:288:VAL:O	4:OA:292:THR:OG1	2.31	0.42
4:OA:368:LEU:HD23	4:OA:368:LEU:H	1.84	0.42
3:OB:247:ASN:HB3	3:OB:252:LYS:HG2	2.01	0.42
4:OC:83:TYR:HB3	4:OC:86:LEU:HD12	2.01	0.42
3:OD:41:ASP:HB3	37:YH:20:GLN:HG2	2.02	0.42
3:OD:156:ARG:NH1	3:OD:195:ASN:O	2.51	0.42
4:OE:166:LYS:N	4:OE:199:ASP:OD2	2.53	0.42
3:OF:32:PRO:C	3:OF:83:GLN:HE21	2.27	0.42
3:OF:106:TYR:HB2	3:OF:401:GLU:OE2	2.20	0.42
4:OG:1:MET:HE3	4:OG:50:ASN:ND2	2.34	0.42
3:OH:350:LYS:HE3	4:OI:180:ALA:HA	2.00	0.42
4:OI:104:ALA:HA	4:OI:107:HIS:HB3	2.00	0.42
4:OI:174:ALA:HB3	4:OI:177:VAL:O	2.19	0.42
4:OI:301:GLN:OE1	4:OI:301:GLN:N	2.52	0.42
4:OI:331:ALA:O	4:OI:334:THR:OG1	2.27	0.42
29:P2:73:SER:HA	29:P2:119:PHE:CG	2.54	0.42
29:P3:569:VAL:HG13	29:P3:590:ILE:HD13	2.02	0.42
4:PA:45:GLY:HA2	4:PA:49:PHE:HE1	1.85	0.42
4:PA:146:GLY:N	39:PA:501:GTP:O2B	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:PA:261:PRO:HA	3:PB:394:PHE:CE1	2.54	0.42
4:PC:22:GLU:O	4:PC:26:LEU:HD23	2.19	0.42
3:PD:6:HIS:HB3	3:PD:21:TRP:HZ2	1.84	0.42
3:PD:246:LEU:HB3	3:PD:353:VAL:O	2.20	0.42
3:PD:267:MET:HA	3:PD:268:PRO:HD3	1.92	0.42
3:PD:318:ARG:HD3	3:PD:358:PRO:HG3	2.01	0.42
3:PF:130:LEU:HB2	3:PF:162:ARG:NH1	2.34	0.42
3:PF:222:TYR:HA	3:PF:225:LEU:HD13	2.01	0.42
3:PF:318:ARG:HA	3:PF:354:CYS:HB3	2.01	0.42
4:PG:345:ASP:OD1	4:PG:345:ASP:N	2.51	0.42
3:PJ:39:ASP:OD1	3:PJ:39:ASP:N	2.50	0.42
3:PJ:199:THR:HB	3:PJ:265:PHE:HD1	1.83	0.42
4:PK:311:LYS:N	4:PK:382:THR:OG1	2.51	0.42
3:PL:324:LYS:HE2	4:PM:222:PRO:HG2	2.00	0.42
4:PM:345:ASP:N	4:PM:345:ASP:OD1	2.52	0.42
4:QC:70:LEU:HG	4:QC:149:PHE:CZ	2.54	0.42
4:QC:125:LEU:HD13	4:QC:128:LEU:HD21	2.01	0.42
3:QD:101:TRP:CE3	3:QD:187:LEU:HD13	2.55	0.42
3:QD:131:GLN:HA	3:QD:251:ARG:HH12	1.84	0.42
3:QD:375:GLN:C	3:QD:379:LYS:HZ2	2.27	0.42
3:QD:379:LYS:O	3:QD:382:SER:OG	2.19	0.42
4:QE:397:LEU:HB3	4:QE:401:LYS:NZ	2.34	0.42
3:QF:180:VAL:HG13	3:QF:184:ASN:OD1	2.19	0.42
4:QG:405:VAL:O	4:QG:409:VAL:HG22	2.19	0.42
3:QH:311:LEU:HD23	3:QH:342:VAL:HG11	2.02	0.42
3:QH:379:LYS:HA	3:QH:379:LYS:HE2	2.01	0.42
3:QJ:12:CYS:O	3:QJ:16:ILE:HG12	2.19	0.42
3:QJ:271:ALA:HB1	3:QJ:272:PRO:CD	2.49	0.42
4:QK:296:PHE:HE2	4:QK:335:ILE:HD13	1.85	0.42
3:QL:394:PHE:HA	3:QL:397:TRP:HZ3	1.83	0.42
27:R:237:GLU:HA	27:R:240:MET:HE2	2.01	0.42
31:R3:118:ARG:HG3	31:R3:148:ARG:NH1	2.34	0.42
3:RB:266:PHE:HD1	3:RB:370:ASN:HB2	1.84	0.42
3:RD:378:PHE:O	3:RD:381:ILE:HG22	2.20	0.42
4:RE:196:GLU:HG2	4:RE:197:HIS:ND1	2.35	0.42
3:RH:296:ALA:HB1	3:RH:304:ASP:OD2	2.19	0.42
4:RK:167:LEU:HB3	4:RK:169:PHE:CE1	2.54	0.42
3:RL:324:LYS:HD3	4:RM:210:TYR:CE1	2.54	0.42
32:S:396:THR:O	32:S:399:ILE:N	2.51	0.42
3:SB:143:THR:O	3:SB:147:MET:HG2	2.19	0.42
3:SB:266:PHE:CD1	3:SB:370:ASN:HB2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:SD:262:ARG:HE	3:SD:421:GLU:CD	2.25	0.42
3:SD:267:MET:HA	3:SD:268:PRO:HD3	1.91	0.42
4:SG:329:ASN:HA	4:SG:332:ILE:HG12	2.01	0.42
4:SI:415:GLU:OE2	4:SI:415:GLU:N	2.32	0.42
3:SJ:268:PRO:HD2	3:SJ:301:ALA:HB2	2.01	0.42
4:SM:2:ARG:NE	4:SM:242:LEU:HG	2.34	0.42
4:TC:278:ALA:HB1	36:Y:212:HIS:HE1	1.84	0.42
3:TD:167:PHE:HZ	3:TD:229:VAL:HG22	1.82	0.42
3:TF:106:TYR:HB2	3:TF:401:GLU:OE2	2.19	0.42
4:TG:167:LEU:HB3	4:TG:169:PHE:CZ	2.54	0.42
3:TH:280:GLN:HB3	36:Z:401:LEU:HD13	2.02	0.42
3:TH:282:ARG:HH22	3:TH:292:GLN:CD	2.27	0.42
4:TI:188:ILE:HG23	4:TI:425:LEU:HD13	2.01	0.42
4:TI:264:ARG:HE	4:TI:431:ASP:CB	2.32	0.42
4:TK:214:ARG:HH11	4:TK:215:ARG:HG3	1.83	0.42
4:TK:331:ALA:O	4:TK:335:ILE:HG12	2.19	0.42
3:TL:1:MET:SD	3:TL:2:ARG:N	2.92	0.42
4:TM:6:SER:HB3	4:TM:65:ALA:HB2	2.01	0.42
4:TM:326:LYS:HE2	3:TN:218:THR:O	2.19	0.42
33:U:228:LEU:O	33:U:231:MET:HG3	2.19	0.42
4:UA:229:ARG:NH1	4:UA:233:GLN:HB2	2.34	0.42
3:UD:331:LEU:HD21	4:UE:177:VAL:HG22	2.01	0.42
4:UE:161:TYR:HB3	4:UE:164:LYS:NZ	2.33	0.42
4:UE:172:TYR:HB2	4:UE:203:MET:SD	2.60	0.42
4:UE:220:GLU:O	4:UE:221:ARG:NE	2.48	0.42
3:UF:70:PRO:HA	3:UF:73:MET:HG2	2.01	0.42
3:UF:188:SER:O	3:UF:192:LEU:HG	2.19	0.42
3:UF:325:GLU:HG2	3:UF:326:VAL:H	1.83	0.42
4:UK:175:PRO:O	4:UK:390:ARG:HD3	2.20	0.42
3:VB:214:THR:HG21	3:VB:273:LEU:HB3	2.00	0.42
3:VB:304:ASP:O	3:VB:307:HIS:ND1	2.46	0.42
4:VC:174:ALA:HB1	4:VC:207:GLU:OE2	2.18	0.42
4:VC:216:ASN:OD1	4:VC:217:LEU:N	2.52	0.42
3:VD:285:THR:O	3:VD:288:GLU:HG3	2.19	0.42
4:VE:2:ARG:HA	4:VE:133:GLN:NE2	2.34	0.42
3:VF:148:GLY:O	3:VF:152:ILE:HG12	2.19	0.42
3:VF:376:GLU:HA	3:VF:379:LYS:HG2	2.02	0.42
4:VG:10:GLY:O	4:VG:14:VAL:HG13	2.19	0.42
4:VG:35:GLN:HG2	4:VG:59:GLY:O	2.19	0.42
3:VH:111:GLU:OE1	3:VH:111:GLU:N	2.51	0.42
4:VI:333:ALA:HA	4:VI:336:LYS:HD2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:VI:362:VAL:H	4:VI:370:LYS:HZ3	1.67	0.42
3:VJ:6:HIS:HB3	3:VJ:21:TRP:HZ2	1.83	0.42
3:VJ:61:PRO:HD3	3:VJ:84:ILE:HG13	2.01	0.42
3:VJ:152:ILE:O	3:VJ:156:ARG:HG2	2.19	0.42
4:VK:25:CYS:O	4:VK:30:ILE:N	2.50	0.42
4:VK:174:ALA:HB1	4:VK:207:GLU:OE2	2.19	0.42
4:VK:235:VAL:HA	4:VK:238:ILE:HG12	2.00	0.42
4:VK:419:SER:HA	4:VK:422:ARG:HH21	1.84	0.42
3:VL:206:ALA:O	3:VL:210:ILE:HD12	2.19	0.42
3:WB:16:ILE:O	3:WB:20:PHE:N	2.35	0.42
3:WD:137:HIS:O	3:WD:168:SER:HA	2.20	0.42
3:WD:272:PRO:HA	3:WD:292:GLN:OE1	2.18	0.42
4:WE:368:LEU:HD23	4:WE:368:LEU:H	1.84	0.42
3:WF:174:LYS:HG3	3:WF:175:VAL:HG13	2.01	0.42
3:WF:315:ALA:HA	3:WF:367:PHE:HA	2.00	0.42
3:WH:214:THR:HG23	3:WH:215:LEU:HD22	2.01	0.42
4:WI:71:GLU:OE1	4:WI:71:GLU:N	2.52	0.42
4:WI:75:VAL:HG22	4:WI:79:ARG:HH21	1.84	0.42
3:WJ:51:TYR:CD1	3:WJ:61:PRO:HA	2.55	0.42
3:WJ:156:ARG:NH1	3:WJ:195:ASN:O	2.51	0.42
4:WK:224:TYR:HA	4:WK:227:LEU:HB2	2.01	0.42
3:WL:12:CYS:HA	39:WL:501:GTP:HN22	1.83	0.42
3:WL:211:CYS:HA	3:WL:215:LEU:HB3	2.00	0.42
3:WL:292:GLN:HA	3:WL:295:ASP:OD2	2.20	0.42
35:XH:66:PRO:HG2	35:XH:82:VAL:HB	2.02	0.42
35:XH:171:LEU:HA	35:XH:174:TYR:CZ	2.55	0.42
35:XI:55:THR:O	35:XI:58:LYS:HG3	2.19	0.42
35:XJ:57:ARG:HB3	35:XJ:102:GLU:HG3	2.01	0.42
36:Y:171:ASN:HB3	36:Y:172:ALA:H	1.72	0.42
37:YJ:116:LYS:O	37:YJ:119:HIS:HB3	2.19	0.42
37:YK:51:SER:HA	37:YK:54:GLU:OE1	2.20	0.42
37:YP:120:GLU:O	37:YP:124:HIS:N	2.49	0.42
37:YW:18:PHE:HA	37:YW:21:GLN:HB2	2.02	0.42
36:Z:419:THR:HA	36:Z:422:LYS:HZ2	1.84	0.42
36:Z:484:ALA:O	36:Z:487:MET:HB3	2.19	0.42
2:A2:44:LEU:O	2:A2:48:ILE:HG13	2.19	0.42
2:A2:325:ASN:CG	2:A2:326:VAL:N	2.77	0.42
2:A3:384:TYR:HD1	7:C4:467:TYR:HE2	1.67	0.42
3:AB:20:PHE:CZ	3:AB:24:ILE:HD11	2.55	0.42
3:AB:240:LEU:HD13	3:AB:248:ALA:HB1	2.01	0.42
3:AD:229:VAL:C	3:AD:233:MET:HE3	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:333:ALA:O	4:AE:337:THR:HG23	2.20	0.42
4:AE:402:ARG:NH2	35:XI:233:PRO:HG2	2.31	0.42
4:AE:427:ALA:HA	4:AE:430:LYS:HZ2	1.84	0.42
3:AF:240:LEU:HD22	3:AF:248:ALA:HB1	2.00	0.42
3:AF:309:ARG:HH22	3:AF:344:TRP:HZ3	1.67	0.42
3:AH:249:ASP:O	3:AH:252:LYS:HB3	2.20	0.42
3:AH:407:GLU:OE1	3:AH:407:GLU:N	2.47	0.42
4:AI:315:CYS:HG	4:AI:343:PHE:HZ	1.66	0.42
3:AJ:66:VAL:HA	3:AJ:91:VAL:O	2.20	0.42
3:AJ:188:SER:O	3:AJ:192:LEU:HG	2.20	0.42
4:AM:211:ASP:C	4:AM:215:ARG:HE	2.27	0.42
4:AM:333:ALA:O	4:AM:337:THR:HG23	2.20	0.42
5:B2:140:GLU:HB2	5:B2:257:GLN:HG2	2.00	0.42
5:B2:177:ARG:O	5:B2:180:MET:HG2	2.19	0.42
5:B3:120:ARG:NH2	5:B3:386:LEU:HB3	2.34	0.42
5:B7:120:ARG:NH1	5:B7:390:CYS:HB3	2.34	0.42
5:B7:177:ARG:HA	5:B7:180:MET:HG3	2.01	0.42
5:B8:115:GLU:O	5:B8:119:LEU:HG	2.20	0.42
5:B8:177:ARG:HA	5:B8:180:MET:HG3	2.01	0.42
4:BC:105:ARG:HG2	4:BC:109:THR:HG21	2.02	0.42
4:BC:167:LEU:HB3	4:BC:169:PHE:CE1	2.55	0.42
4:BE:145:THR:OG1	39:BE:501:GTP:O1B	2.36	0.42
4:BE:424:ASP:O	4:BE:428:LEU:HG	2.19	0.42
4:BG:119:LEU:HB3	4:BG:123:ARG:NH2	2.34	0.42
3:BH:105:HIS:ND1	3:BH:149:THR:OG1	2.51	0.42
4:BI:7:ILE:N	4:BI:136:LEU:O	2.40	0.42
4:BI:68:VAL:HG23	4:BI:93:ILE:CG2	2.50	0.42
4:BI:239:THR:OG1	4:BI:243:ARG:NH1	2.51	0.42
4:BI:244:PHE:HB2	4:BI:356:ASN:ND2	2.28	0.42
4:BI:278:ALA:O	4:BI:370:LYS:NZ	2.53	0.42
3:BJ:69:GLU:CD	3:BJ:71:GLY:H	2.27	0.42
3:BJ:148:GLY:O	3:BJ:152:ILE:HG12	2.20	0.42
3:BJ:346:PRO:HD2	4:BK:398:MET:HE1	2.00	0.42
4:BK:108:TYR:CD2	4:BK:413:MET:HE3	2.54	0.42
4:BK:139:HIS:O	4:BK:170:ALA:HA	2.20	0.42
4:BK:345:ASP:N	4:BK:345:ASP:OD1	2.53	0.42
4:BK:363:VAL:HG13	4:BK:366:GLY:HA3	2.02	0.42
3:BL:6:HIS:CE1	3:BL:8:GLN:HB2	2.54	0.42
3:BL:139:LEU:HD21	3:BL:170:VAL:HG22	2.00	0.42
4:BM:166:LYS:O	4:BM:199:ASP:HB2	2.20	0.42
4:BM:273:ALA:HB2	4:BM:295:CYS:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BM:280:LYS:HD2	4:BM:280:LYS:HA	1.84	0.42
7:C2:126:ARG:O	7:C2:129:GLN:HG3	2.19	0.42
7:C2:340:PHE:HE1	7:C2:477:ARG:NE	2.17	0.42
7:C3:418:LEU:O	7:C3:421:VAL:HG22	2.20	0.42
7:C3:433:THR:O	7:C3:437:ARG:HG2	2.19	0.42
7:C4:299:THR:HA	7:C4:302:LYS:HG2	2.00	0.42
7:C4:406:ARG:HH12	7:C4:412:CYS:H	1.68	0.42
7:C8:95:THR:HG22	7:C8:98:ASP:OD2	2.19	0.42
3:CB:148:GLY:O	3:CB:152:ILE:HG22	2.19	0.42
3:CB:272:PRO:HA	3:CB:292:GLN:OE1	2.19	0.42
4:CC:80:THR:HA	15:H1:212:LEU:HD11	2.01	0.42
4:CC:88:HIS:HE1	4:CC:90:GLU:CD	2.27	0.42
4:CC:174:ALA:HB3	4:CC:177:VAL:O	2.19	0.42
3:CD:333:VAL:HA	3:CD:336:LYS:HB3	2.01	0.42
4:CE:174:ALA:HB3	4:CE:177:VAL:O	2.20	0.42
3:CF:156:ARG:CZ	3:CF:164:MET:HE3	2.50	0.42
4:CG:39:ASP:HB3	14:G5:231:ARG:NH2	2.35	0.42
4:CG:230:LEU:HD12	4:CG:231:ILE:HG23	2.01	0.42
3:CH:199:THR:N	3:CH:264:HIS:O	2.49	0.42
3:CH:380:ARG:O	3:CH:384:GLN:HG2	2.19	0.42
4:CI:167:LEU:HB3	4:CI:169:PHE:CZ	2.54	0.42
4:CI:290:GLU:OE1	4:CI:290:GLU:N	2.37	0.42
3:CJ:31:ASP:OD1	3:CJ:35:THR:N	2.51	0.42
3:CJ:235:GLY:O	3:CJ:238:THR:OG1	2.33	0.42
4:CK:9:VAL:HA	4:CK:68:VAL:HG23	2.02	0.42
4:CK:104:ALA:HB1	4:CK:108:TYR:CD2	2.54	0.42
3:CL:41:ASP:CB	15:H6:213:ILE:HA	2.45	0.42
3:CL:87:PRO:HA	3:CL:90:PHE:CD2	2.55	0.42
4:CM:139:HIS:CD2	4:CM:170:ALA:HB2	2.54	0.42
4:CM:272:TYR:HD2	4:CM:275:VAL:HG13	1.84	0.42
7:Cb:351:ILE:O	7:Cb:355:VAL:HG23	2.20	0.42
7:Cc:365:LEU:HD12	7:Cc:452:LYS:HZ3	1.85	0.42
7:Cc:384:LYS:O	7:Cc:388:GLU:OE1	2.38	0.42
6:D:142:LEU:HB3	6:D:292:MET:HB2	2.02	0.42
8:D2:135:LYS:HE3	8:D2:135:LYS:HB3	1.87	0.42
8:D2:407:ASP:O	8:D2:410:MET:HG3	2.19	0.42
8:D3:276:VAL:HG12	8:D3:280:LYS:NZ	2.33	0.42
8:D3:287:ARG:NH1	8:D3:291:GLU:OE2	2.49	0.42
8:D4:64:TYR:CZ	8:D5:317:LYS:HG3	2.54	0.42
8:D4:102:LYS:HE3	8:D5:372:ASN:ND2	2.35	0.42
8:D4:147:VAL:O	8:D4:151:ILE:HG13	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:D7:75:GLU:O	8:D7:79:HIS:ND1	2.52	0.42
8:D8:214:ASN:O	8:D8:218:LYS:HG2	2.20	0.42
8:D8:377:LEU:O	8:D8:381:VAL:HG23	2.19	0.42
8:D9:74:SER:HA	8:D9:77:GLN:OE1	2.18	0.42
4:DA:14:VAL:HA	4:DA:67:PHE:HE1	1.84	0.42
4:DA:69:ASP:OD1	4:DA:70:LEU:N	2.52	0.42
4:DA:204:VAL:HG22	4:DA:209:ILE:HD11	2.00	0.42
3:DB:152:ILE:HD12	3:DB:195:ASN:HB2	2.02	0.42
3:DB:167:PHE:CD1	3:DB:200:TYR:HD2	2.37	0.42
4:DE:169:PHE:HE1	4:DE:202:PHE:CD2	2.37	0.42
4:DG:328:VAL:O	4:DG:332:ILE:HG12	2.20	0.42
3:DH:324:LYS:HD3	4:DI:210:TYR:CE1	2.55	0.42
4:DI:320:ARG:HG2	4:DI:358:GLN:O	2.20	0.42
3:DL:8:GLN:OE1	3:DL:14:ASN:HA	2.20	0.42
10:E3:177:ARG:HG3	10:E3:178:PHE:H	1.84	0.42
10:E4:48:ARG:HB2	10:E4:63:TRP:NE1	2.34	0.42
4:EA:260:VAL:HG23	4:EA:265:ILE:O	2.18	0.42
4:EC:2:ARG:O	4:EC:51:THR:OG1	2.37	0.42
4:EC:165:SER:C	4:EC:166:LYS:HD2	2.45	0.42
4:EE:132:LEU:HD13	4:EE:164:LYS:HE2	2.01	0.42
4:EE:320:ARG:HH21	4:EE:358:GLN:HG3	1.85	0.42
4:EE:326:LYS:NZ	3:EF:211:CYS:HB3	2.34	0.42
4:EE:390:ARG:HA	4:EE:393:HIS:CD2	2.55	0.42
3:EF:46:ARG:HH22	4:EG:73:THR:HA	1.84	0.42
3:EF:315:ALA:HB2	3:EF:367:PHE:HD1	1.84	0.42
4:EG:254:GLU:OE1	4:EG:254:GLU:N	2.50	0.42
4:EG:261:PRO:HA	3:EH:394:PHE:CE1	2.48	0.42
3:EH:141:GLY:HA3	39:EH:501:GTP:H5"	2.00	0.42
4:EI:9:VAL:HG11	4:EI:153:LEU:HD21	2.01	0.42
4:EI:43:GLY:C	4:EI:45:GLY:H	2.27	0.42
4:EI:51:THR:HG23	4:EI:52:PHE:CD2	2.55	0.42
4:EI:346:TRP:HZ2	3:EJ:391:ARG:HH11	1.67	0.42
3:EJ:150:LEU:O	3:EJ:153:SER:OG	2.33	0.42
4:EK:311:LYS:NZ	4:EK:343:PHE:O	2.51	0.42
3:EL:78:SER:O	13:G3:467:LEU:HD12	2.20	0.42
3:EL:175:VAL:HG22	3:EL:177:ASP:H	1.84	0.42
3:EL:272:PRO:HA	3:EL:292:GLN:OE1	2.20	0.42
11:F3:247:GLN:O	11:F3:251:GLU:OE1	2.38	0.42
11:F5:169:SER:O	11:F5:172:THR:OG1	2.30	0.42
11:F6:425:ASP:O	11:F6:428:GLN:HG3	2.20	0.42
11:F7:450:ARG:O	11:F7:454:GLU:OE1	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:F8:372:GLU:HA	11:F8:375:ILE:HG12	2.02	0.42
11:F8:372:GLU:OE1	11:Fi:305:ARG:NH2	2.51	0.42
11:F8:418:ASN:ND2	11:Fj:435:ARG:HD2	2.34	0.42
4:FA:260:VAL:O	3:FB:397:TRP:HH2	2.03	0.42
3:FB:39:ASP:OD1	3:FB:39:ASP:N	2.53	0.42
3:FB:286:VAL:HA	3:FB:289:LEU:HD12	2.02	0.42
3:FB:374:ILE:HG22	3:FB:377:LEU:HD12	2.01	0.42
4:FC:288:VAL:HG11	4:FC:327:ASP:HB2	2.01	0.42
3:FD:156:ARG:HH11	3:FD:195:ASN:HA	1.84	0.42
3:FD:218:THR:O	3:FD:220:PRO:HD3	2.20	0.42
4:FE:54:SER:N	4:FE:62:VAL:O	2.52	0.42
3:FF:83:GLN:OE1	3:FF:83:GLN:N	2.43	0.42
4:FG:174:ALA:HB3	4:FG:177:VAL:O	2.20	0.42
4:FG:368:LEU:HD23	4:FG:368:LEU:H	1.84	0.42
3:FH:101:TRP:CE3	3:FH:187:LEU:HD13	2.55	0.42
3:FH:251:ARG:NH2	4:FI:97:GLU:OE2	2.52	0.42
3:FH:267:MET:N	3:FH:267:MET:SD	2.92	0.42
4:FI:50:ASN:OD1	4:FI:51:THR:N	2.53	0.42
4:FI:137:ILE:HG22	4:FI:139:HIS:ND1	2.34	0.42
4:FI:189:LEU:HA	4:FI:192:HIS:HD1	1.84	0.42
3:FJ:8:GLN:NE2	3:FJ:17:GLY:HA3	2.34	0.42
3:FJ:51:TYR:CD1	3:FJ:61:PRO:HA	2.54	0.42
3:FL:20:PHE:CZ	3:FL:24:ILE:HD11	2.55	0.42
11:Fa:410:ASP:OD1	11:Fa:411:VAL:N	2.45	0.42
11:Fc:330:ASP:O	11:Fc:334:LYS:HE3	2.20	0.42
11:Ff:114:SER:O	11:Ff:117:THR:OG1	2.37	0.42
11:Fg:305:ARG:O	11:Fg:309:ASN:ND2	2.53	0.42
11:Fh:398:CYS:HA	11:Fh:401:ARG:HH11	1.83	0.42
11:Fj:320:GLU:O	11:Fj:324:LEU:HD23	2.19	0.42
11:Fk:225:CYS:SG	11:Fk:328:LEU:HD13	2.60	0.42
11:Fl:296:TRP:HA	11:Fl:299:PHE:CD2	2.55	0.42
12:G:167:LYS:NZ	12:H:491:LEU:HD13	2.34	0.42
13:G1:118:ARG:NH1	13:G1:210:ASP:OD2	2.52	0.42
13:G1:331:VAL:HB	13:G1:364:LEU:HD13	2.02	0.42
13:G2:416:ASP:N	13:G2:416:ASP:OD1	2.53	0.42
13:G3:107:VAL:N	13:G3:114:HIS:O	2.43	0.42
14:G4:442:THR:OG1	14:G4:444:LYS:O	2.38	0.42
14:G4:639:ILE:HA	14:G4:642:CYS:HB3	2.01	0.42
14:G5:232:PHE:CE1	14:G5:353:LEU:HB3	2.53	0.42
14:G5:349:ARG:O	14:G5:351:VAL:HG13	2.19	0.42
14:G5:361:LYS:HG3	14:G5:373:PHE:CD2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G6:635:PHE:HB3	14:G6:639:ILE:HD12	2.02	0.42
4:GE:90:GLU:HG2	4:GE:121:ARG:NH2	2.35	0.42
4:GG:160:ASP:OD1	4:GG:161:TYR:N	2.53	0.42
3:GH:32:PRO:HA	3:GH:81:PHE:CE1	2.54	0.42
4:GI:331:ALA:O	4:GI:335:ILE:HG12	2.19	0.42
3:GJ:148:GLY:O	3:GJ:152:ILE:HG12	2.20	0.42
3:GJ:309:ARG:O	3:GJ:371:SER:OG	2.26	0.42
3:GL:3:GLU:HB2	3:GL:62:ARG:NH2	2.34	0.42
15:H1:256:HIS:C	15:H1:258:VAL:H	2.27	0.42
15:H2:37:ARG:HA	15:H2:37:ARG:NE	2.34	0.42
15:H4:302:ASN:O	15:H4:305:ARG:N	2.53	0.42
3:HB:156:ARG:NH1	3:HB:194:GLU:O	2.52	0.42
3:HB:245:GLN:HE22	4:HC:15:GLN:HE22	1.68	0.42
3:HB:270:PHE:CG	3:HB:271:ALA:N	2.87	0.42
4:HC:94:THR:OG1	4:HC:95:GLY:N	2.52	0.42
4:HC:115:VAL:O	4:HC:119:LEU:HG	2.20	0.42
3:HD:232:THR:HG22	3:HD:270:PHE:CD1	2.55	0.42
3:HD:323:MET:SD	3:HD:323:MET:N	2.89	0.42
3:HD:324:LYS:HE3	3:HD:324:LYS:HB3	1.83	0.42
4:HE:114:ILE:O	4:HE:118:VAL:HG23	2.20	0.42
4:HE:424:ASP:O	4:HE:428:LEU:HG	2.20	0.42
3:HF:224:ASP:O	3:HF:228:LEU:HG	2.20	0.42
4:HG:186:ASN:HA	4:HG:189:LEU:HD12	2.00	0.42
4:HG:327:ASP:N	4:HG:327:ASP:OD1	2.52	0.42
3:HH:150:LEU:C	3:HH:154:LYS:HZ3	2.27	0.42
4:HI:185:TYR:HA	4:HI:395:PHE:HE1	1.84	0.42
4:HI:431:ASP:O	4:HI:435:VAL:HG22	2.20	0.42
3:HJ:217:LEU:HD11	3:HJ:220:PRO:HB3	2.00	0.42
4:HK:229:ARG:NH1	4:HK:233:GLN:HB2	2.35	0.42
3:HL:230:SER:HA	3:HL:233:MET:HE3	2.01	0.42
16:I:89:MET:CB	16:I:93:ARG:HH21	2.32	0.42
3:ID:113:VAL:HA	3:ID:116:VAL:HG22	2.02	0.42
3:ID:257:MET:O	3:ID:259:PRO:HD3	2.18	0.42
4:IE:135:PHE:CE2	4:IE:164:LYS:HD2	2.55	0.42
4:IE:251:ASP:HB3	4:IE:254:GLU:OE1	2.18	0.42
4:IE:260:VAL:O	3:IF:397:TRP:HH2	2.03	0.42
3:IF:72:THR:O	3:IF:75:SER:OG	2.32	0.42
3:IF:245:GLN:HE22	4:IG:15:GLN:HE22	1.67	0.42
3:IF:419:VAL:HG12	3:IF:423:GLN:HE22	1.84	0.42
4:IG:298:PRO:HB3	4:IG:307:PRO:HD2	2.01	0.42
3:IH:5:VAL:HG23	3:IH:130:LEU:HD21	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IH:19:LYS:NZ	3:IH:227:HIS:HB2	2.35	0.42
3:IJ:355:ASP:O	3:IJ:357:PRO:HD3	2.18	0.42
3:IL:299:MET:HE2	3:IL:303:CYS:C	2.45	0.42
18:J:140:THR:HB	3:JH:41:ASP:H	1.84	0.42
19:J2:154:HIS:NE2	19:J2:158:LYS:HE3	2.35	0.42
4:JA:327:ASP:OD1	4:JA:328:VAL:N	2.53	0.42
4:JC:105:ARG:HG2	4:JC:109:THR:HG21	2.00	0.42
4:JE:141:PHE:CE2	4:JE:203:MET:HG3	2.54	0.42
4:JE:154:MET:HE1	4:JE:197:HIS:HB2	2.00	0.42
3:JH:309:ARG:O	3:JH:371:SER:OG	2.28	0.42
3:JJ:152:ILE:HD12	3:JJ:195:ASN:HB2	2.02	0.42
3:JJ:318:ARG:HD3	3:JJ:358:PRO:HG3	2.01	0.42
4:JK:119:LEU:HD23	4:JK:122:ILE:HD12	2.01	0.42
4:JK:265:ILE:HD12	4:JK:432:TYR:CE1	2.54	0.42
4:JK:308:ARG:HE	4:JK:342:GLN:HE22	1.68	0.42
4:JK:363:VAL:HG13	4:JK:366:GLY:HA3	2.02	0.42
4:JK:389:ALA:HA	4:JK:392:ASP:OD2	2.19	0.42
21:K2:326:GLN:OE1	21:K2:468:ARG:NH2	2.52	0.42
21:K3:155:LEU:CD1	21:K3:158:ARG:HH21	2.32	0.42
21:K4:136:THR:O	21:K4:139:ARG:HG2	2.19	0.42
21:K4:229:SER:O	21:K4:233:THR:HG23	2.19	0.42
4:KA:263:PRO:O	4:KA:264:ARG:HB2	2.20	0.42
4:KA:415:GLU:OE1	4:KA:415:GLU:N	2.52	0.42
3:KB:73:MET:HB2	3:KB:90:PHE:CD1	2.55	0.42
3:KB:172:SER:OG	3:KB:174:LYS:HG2	2.19	0.42
3:KB:318:ARG:HB3	3:KB:364:SER:OG	2.20	0.42
4:KC:5:ILE:HB	4:KC:135:PHE:HD1	1.85	0.42
4:KC:311:LYS:HE3	4:KC:344:VAL:HA	2.01	0.42
3:KD:404:ASP:OD1	3:KD:404:ASP:N	2.51	0.42
4:KE:1:MET:O	4:KE:133:GLN:NE2	2.47	0.42
4:KG:115:VAL:HG21	4:KG:156:ARG:HD3	2.01	0.42
4:KG:420:GLU:HA	4:KG:423:GLU:OE2	2.20	0.42
4:KI:35:GLN:HG2	4:KI:59:GLY:O	2.19	0.42
4:KI:105:ARG:O	4:KI:109:THR:OG1	2.28	0.42
4:KK:252:LEU:HA	4:KK:255:PHE:CD2	2.54	0.42
4:KK:269:LEU:N	4:KK:379:SER:O	2.46	0.42
3:KL:31:ASP:HB3	3:KL:37:HIS:NE2	2.34	0.42
3:KL:290:THR:HG21	3:KL:329:GLN:HB3	2.01	0.42
20:L:94:CYS:N	20:L:115:SER:O	2.43	0.42
22:L1:76:LYS:CE	4:LA:414:GLU:HG2	2.49	0.42
22:L1:214:LEU:HD12	3:VB:77:ARG:NH2	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:L3:76:LYS:HG3	4:LI:414:GLU:HG2	2.00	0.42
22:L3:128:LYS:H	22:L3:131:GLY:HA3	1.84	0.42
22:L3:167:LYS:O	22:L3:170:GLU:HB2	2.19	0.42
22:L3:210:GLU:O	22:L3:213:SER:OG	2.29	0.42
4:LA:320:ARG:HG2	4:LA:358:GLN:O	2.20	0.42
4:LA:357:TYR:CE1	32:S:418:PHE:HB2	2.55	0.42
4:LC:319:TYR:HA	4:LC:374:ALA:O	2.20	0.42
4:LC:425:LEU:O	4:LC:428:LEU:N	2.52	0.42
4:LG:10:GLY:O	4:LG:14:VAL:HG13	2.18	0.42
4:LG:197:HIS:NE2	28:O2:77:ALA:HB2	2.34	0.42
3:LH:31:ASP:OD1	3:LH:35:THR:N	2.52	0.42
3:LH:334:GLN:O	3:LH:338:SER:OG	2.28	0.42
4:LI:6:SER:HA	4:LI:136:LEU:HB2	2.01	0.42
4:LK:139:HIS:O	4:LK:170:ALA:HA	2.19	0.42
4:LK:203:MET:CE	4:LK:267:PHE:HB3	2.49	0.42
3:LL:378:PHE:O	3:LL:381:ILE:HG22	2.19	0.42
24:M1:58:MET:HE3	24:M1:60:TRP:HB3	2.01	0.42
24:M2:48:LYS:NZ	24:M2:92:TYR:HB3	2.34	0.42
24:M3:44:ARG:NH2	24:M3:96:LEU:HD12	2.34	0.42
3:MB:346:PRO:HB2	4:MC:394:LYS:HZ3	1.84	0.42
4:MC:384:ILE:HB	4:MC:388:TRP:HZ3	1.85	0.42
3:MD:132:GLY:HA3	3:MD:163:ILE:H	1.84	0.42
4:ME:119:LEU:HB3	4:ME:123:ARG:NH2	2.33	0.42
4:ME:411:GLU:OE2	4:ME:413:MET:HE1	2.19	0.42
3:MF:328:GLU:OE1	3:MF:332:ASN:ND2	2.51	0.42
4:MG:75:VAL:HG22	4:MG:79:ARG:HH21	1.85	0.42
4:MG:333:ALA:HA	4:MG:336:LYS:HD2	2.01	0.42
4:MG:420:GLU:HA	4:MG:423:GLU:OE2	2.20	0.42
4:MI:150:ALA:O	4:MI:153:LEU:HG	2.19	0.42
4:MI:189:LEU:HD21	4:MI:418:PHE:CE1	2.55	0.42
4:MK:132:LEU:HD13	4:MK:164:LYS:HE2	2.01	0.42
4:MK:320:ARG:HA	4:MK:356:ASN:HB3	2.01	0.42
4:MK:399:TYR:OH	4:MK:415:GLU:HB2	2.19	0.42
4:MM:34:GLY:HA2	4:MM:86:LEU:HD11	2.01	0.42
4:MM:85:GLN:HG2	4:MM:86:LEU:HD22	2.01	0.42
4:MM:282:TYR:CE1	27:P:43:ALA:HB1	2.55	0.42
26:N2:160:LYS:HB3	26:N2:163:GLY:C	2.45	0.42
4:NA:269:LEU:N	4:NA:379:SER:O	2.35	0.42
3:NB:197:ASP:OD1	3:NB:198:GLU:N	2.52	0.42
4:NC:2:ARG:HA	4:NC:133:GLN:NE2	2.34	0.42
4:NC:226:ASN:HD22	4:NC:226:ASN:C	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ND:324:LYS:HD3	4:NE:210:TYR:CE1	2.55	0.42
4:NE:70:LEU:HA	4:NE:95:GLY:HA3	2.00	0.42
4:NE:318:LEU:O	4:NE:375:VAL:HA	2.19	0.42
4:NG:46:ASP:HA	4:NG:50:ASN:HB3	2.01	0.42
4:NG:176:GLN:NE2	4:NG:207:GLU:OE2	2.52	0.42
4:NG:263:PRO:HB2	4:NG:264:ARG:NH1	2.35	0.42
3:NH:323:MET:HE2	3:NH:323:MET:HB2	1.88	0.42
4:NI:28:HIS:HB2	4:NI:30:ILE:HG12	2.01	0.42
4:NI:132:LEU:HD13	4:NI:164:LYS:HE2	2.01	0.42
3:NJ:106:TYR:CE1	3:NJ:403:MET:HE1	2.54	0.42
3:NJ:385:PHE:HA	3:NJ:388:MET:SD	2.59	0.42
4:OA:331:ALA:O	4:OA:335:ILE:HG12	2.19	0.42
3:OB:134:GLN:HA	3:OB:165:ASN:O	2.20	0.42
4:OC:312:TYR:HB2	4:OC:343:PHE:HA	2.01	0.42
3:OD:34:GLY:HA3	3:OD:58:LYS:HZ2	1.84	0.42
4:OE:223:THR:OG1	4:OE:225:THR:OG1	2.17	0.42
3:OF:376:GLU:H	3:OF:376:GLU:CD	2.25	0.42
3:OH:54:ALA:HA	3:PH:283:ALA:HB2	2.01	0.42
3:OH:66:VAL:HA	3:OH:91:VAL:O	2.19	0.42
3:OH:113:VAL:HA	3:OH:116:VAL:HG22	2.01	0.42
4:OI:28:HIS:HB2	4:OI:30:ILE:HD11	2.02	0.42
3:OJ:117:LEU:HB3	3:OJ:121:ARG:NH2	2.34	0.42
3:OJ:410:GLU:O	3:OJ:414:ASN:N	2.35	0.42
4:OK:223:THR:OG1	4:OK:225:THR:OG1	2.20	0.42
29:P2:136:SER:HA	29:P2:152:PRO:HA	2.01	0.42
29:P3:179:ASN:HA	29:P3:207:ILE:HG23	2.01	0.42
29:P3:227:GLY:HA2	29:P3:253:VAL:HG23	2.01	0.42
29:P3:402:ALA:HA	29:P3:409:MET:HE3	2.00	0.42
4:PA:286:LEU:HD23	4:PA:286:LEU:H	1.84	0.42
3:PB:217:LEU:O	3:PB:219:THR:N	2.52	0.42
3:PD:12:CYS:SG	3:PD:13:GLY:N	2.92	0.42
3:PD:258:VAL:HB	4:PE:407:TRP:HZ2	1.82	0.42
4:PE:167:LEU:HB3	4:PE:169:PHE:CE1	2.54	0.42
4:PE:292:THR:CG2	4:PE:335:ILE:HD11	2.49	0.42
4:PG:206:ASN:OD1	4:PG:207:GLU:N	2.52	0.42
4:PG:234:ILE:O	4:PG:237:SER:OG	2.36	0.42
3:PH:143:THR:HG22	3:PH:147:MET:HE1	2.02	0.42
3:PH:188:SER:O	3:PH:192:LEU:HG	2.19	0.42
3:PJ:290:THR:HG21	3:PJ:329:GLN:HB3	2.01	0.42
4:PK:352:LYS:NZ	3:PL:178:THR:HA	2.34	0.42
4:PM:182:VAL:O	4:PM:185:TYR:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Q:171:GLU:HG3	27:Q:174:ARG:HH21	1.84	0.42
30:Q2:1469:LEU:C	30:Q2:1504:LYS:HB3	2.44	0.42
3:QB:324:LYS:HG3	4:QC:221:ARG:NH1	2.35	0.42
3:QB:334:GLN:O	3:QB:338:SER:OG	2.27	0.42
4:QC:208:ALA:H	4:QC:304:LYS:NZ	2.13	0.42
4:QC:209:ILE:O	4:QC:212:ILE:HG22	2.19	0.42
3:QD:290:THR:HG21	3:QD:329:GLN:HB3	2.00	0.42
4:QE:45:GLY:HA2	4:QE:49:PHE:HE1	1.84	0.42
4:QE:163:LYS:HA	4:QE:163:LYS:HD3	1.77	0.42
4:QE:260:VAL:HA	4:QE:261:PRO:HD3	1.94	0.42
3:QH:137:HIS:O	3:QH:168:SER:HA	2.20	0.42
3:QH:317:PHE:HE2	3:QH:326:VAL:HG23	1.85	0.42
4:QI:70:LEU:HG	4:QI:149:PHE:CZ	2.55	0.42
4:QI:119:LEU:HB3	4:QI:123:ARG:NH2	2.35	0.42
4:QI:346:TRP:CD1	4:QI:346:TRP:N	2.87	0.42
4:QM:88:HIS:CE1	4:QM:121:ARG:HH22	2.38	0.42
31:R3:134:THR:N	31:R3:137:GLU:OE2	2.52	0.42
31:R3:139:MET:HG2	31:R3:142:ARG:HE	1.84	0.42
3:RB:292:GLN:O	3:RB:298:ASN:ND2	2.48	0.42
3:RD:183:TYR:CD1	3:RD:388:MET:HE3	2.55	0.42
3:RD:253:LEU:O	3:RD:257:MET:HG2	2.19	0.42
4:RG:66:VAL:HG12	4:RG:68:VAL:HG13	2.01	0.42
4:RG:196:GLU:OE1	4:RG:196:GLU:N	2.42	0.42
4:RG:368:LEU:HD23	4:RG:368:LEU:H	1.85	0.42
3:RH:66:VAL:HA	3:RH:91:VAL:O	2.20	0.42
3:RH:334:GLN:O	3:RH:338:SER:OG	2.24	0.42
3:RJ:20:PHE:HA	3:RJ:230:SER:HB2	2.01	0.42
4:RM:117:LEU:O	4:RM:121:ARG:HG2	2.19	0.42
4:RM:176:GLN:N	4:RM:176:GLN:OE1	2.52	0.42
4:RM:279:GLU:O	4:RM:283:HIS:HD2	2.03	0.42
3:SB:250:LEU:HA	3:SB:253:LEU:HB2	2.01	0.42
4:SC:91:GLN:HE21	4:SC:125:LEU:HD21	1.85	0.42
4:SC:269:LEU:O	4:SC:378:LEU:HA	2.20	0.42
4:SC:272:TYR:CE1	4:SC:374:ALA:HB1	2.55	0.42
4:SC:392:ASP:O	4:SC:396:ASP:N	2.41	0.42
4:SE:69:ASP:OD1	4:SE:70:LEU:N	2.53	0.42
4:SE:331:ALA:O	4:SE:335:ILE:HD12	2.18	0.42
4:SI:88:HIS:O	4:SI:91:GLN:HG2	2.19	0.42
4:SI:119:LEU:HB3	4:SI:123:ARG:NH2	2.34	0.42
4:SM:208:ALA:H	4:SM:304:LYS:NZ	2.14	0.42
3:TB:318:ARG:HD3	3:TB:358:PRO:HG3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:TC:99:ALA:HB3	4:TC:144:GLY:O	2.20	0.42
4:TC:203:MET:HE2	4:TC:267:PHE:CD1	2.53	0.42
4:TC:388:TRP:HB3	4:TC:425:LEU:HD11	2.01	0.42
3:TD:391:ARG:C	3:TD:392:LYS:HG3	2.45	0.42
4:TE:34:GLY:HA3	4:TE:60:LYS:HD2	2.02	0.42
4:TE:401:LYS:H	4:TE:401:LYS:HG2	1.71	0.42
4:TG:172:TYR:CD1	4:TG:203:MET:HG2	2.52	0.42
4:TG:257:THR:HA	3:TH:397:TRP:CZ2	2.54	0.42
3:TH:153:SER:HB3	3:TH:191:GLN:NE2	2.34	0.42
4:TI:154:MET:HA	4:TI:157:LEU:HG	2.02	0.42
4:TI:244:PHE:HB2	4:TI:356:ASN:HD21	1.84	0.42
4:TI:280:LYS:HA	4:TI:280:LYS:HD2	1.77	0.42
3:TJ:166:THR:OG1	3:TJ:198:GLU:O	2.27	0.42
3:TJ:271:ALA:HB1	3:TJ:272:PRO:CD	2.50	0.42
4:TK:22:GLU:O	4:TK:26:LEU:HD23	2.19	0.42
4:TK:50:ASN:OD1	4:TK:51:THR:N	2.52	0.42
4:TM:12:ALA:HB1	39:TM:501:GTP:N3	2.34	0.42
4:TM:246:GLY:HA2	4:TM:357:TYR:CD2	2.54	0.42
33:U:196:LYS:HA	33:U:199:LEU:HB2	2.02	0.42
33:U:299:GLN:O	33:U:303:ARG:HG3	2.20	0.42
33:U:410:ALA:HA	33:U:413:LYS:HD2	2.01	0.42
4:UA:22:GLU:HG2	4:UA:83:TYR:CE2	2.55	0.42
4:UA:311:LYS:HE3	4:UA:344:VAL:HA	2.02	0.42
4:UC:319:TYR:HB2	4:UC:355:ILE:HD13	2.01	0.42
3:UD:39:ASP:OD1	3:UD:39:ASP:N	2.52	0.42
3:UD:206:ALA:O	3:UD:210:ILE:HG12	2.19	0.42
4:UE:252:LEU:O	4:UE:256:GLN:N	2.38	0.42
3:UF:250:LEU:HD13	3:UF:253:LEU:HD12	2.01	0.42
3:UH:319:GLY:N	3:UH:321:MET:HE1	2.34	0.42
3:UJ:77:ARG:HA	3:UJ:77:ARG:HD2	1.89	0.42
4:UK:6:SER:HB3	4:UK:65:ALA:HB2	2.01	0.42
33:V:507:ALA:O	33:V:511:ARG:N	2.50	0.42
4:VA:235:VAL:HA	4:VA:238:ILE:HG12	2.01	0.42
4:VC:2:ARG:HA	4:VC:133:GLN:HE22	1.85	0.42
3:VD:12:CYS:HB3	39:VD:501:GTP:H5'	2.01	0.42
3:VD:258:VAL:HB	4:VE:407:TRP:CZ2	2.50	0.42
4:VE:363:VAL:HG13	4:VE:366:GLY:HA3	2.02	0.42
4:VG:2:ARG:NH1	4:VG:241:SER:O	2.52	0.42
4:VG:209:ILE:HG23	4:VG:230:LEU:HD21	2.01	0.42
4:VG:234:ILE:O	4:VG:237:SER:OG	2.37	0.42
4:VG:319:TYR:N	4:VG:354:GLY:O	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:VI:85:GLN:OE1	4:VI:85:GLN:N	2.39	0.42
4:VI:405:VAL:O	4:VI:409:VAL:HG22	2.19	0.42
3:VJ:318:ARG:HD3	3:VJ:358:PRO:HG3	2.00	0.42
4:VK:216:ASN:HD21	4:VK:275:VAL:HG23	1.84	0.42
33:W:230:HIS:O	33:W:233:GLU:HG3	2.20	0.42
4:WA:214:ARG:NH1	4:WA:215:ARG:HG3	2.34	0.42
4:WA:304:LYS:HD2	4:WA:304:LYS:N	2.35	0.42
3:WB:319:GLY:N	3:WB:321:MET:HE1	2.34	0.42
4:WE:208:ALA:HB3	4:WE:302:MET:HA	2.00	0.42
4:WG:285:GLN:HE22	4:WG:287:SER:HB3	1.84	0.42
3:WJ:11:GLN:HG3	39:WJ:501:GTP:PA	2.60	0.42
3:WJ:87:PRO:HA	3:WJ:90:PHE:CD2	2.55	0.42
4:WK:130:THR:O	35:XM:71:HIS:NE2	2.52	0.42
4:WK:216:ASN:ND2	4:WK:275:VAL:HG23	2.34	0.42
34:XD:1:MET:HG3	34:XD:68:THR:O	2.20	0.42
34:XE:78:MET:HB2	34:XE:132:ILE:HG13	2.01	0.42
34:XE:81:LYS:HB2	34:XE:129:TRP:CD2	2.54	0.42
35:XH:72:ASP:OD1	35:XH:72:ASP:N	2.52	0.42
35:XJ:69:LEU:HA	35:XJ:79:ALA:N	2.34	0.42
35:XJ:100:LEU:HB2	35:XJ:115:ILE:HD11	2.01	0.42
35:XK:167:GLY:O	35:XK:174:TYR:OH	2.32	0.42
37:YB:26:ILE:HD12	37:YB:134:TYR:CE1	2.54	0.42
37:YD:137:VAL:HG13	37:YD:138:VAL:HG13	2.02	0.42
37:YG:6:GLU:HA	37:YG:9:ARG:NE	2.33	0.42
37:YH:97:LEU:O	37:YH:101:LYS:HD3	2.19	0.42
37:YI:81:GLN:HA	37:YI:84:GLU:HB2	2.01	0.42
37:YJ:154:HIS:HA	37:YJ:157:LYS:HE2	2.02	0.42
37:YL:8:LEU:HA	37:YL:11:ILE:HD12	2.02	0.42
37:YM:15:TYR:O	37:YM:19:GLN:HG2	2.20	0.42
37:YP:90:THR:OG1	37:YP:162:VAL:HG11	2.19	0.42
37:YQ:23:PHE:HA	37:YQ:26:ILE:HG12	2.01	0.42
37:YU:25:PHE:HA	37:YU:65:ILE:HD12	2.01	0.42
36:Z:311:GLU:HA	36:Z:314:ARG:HB2	2.01	0.42
36:Z:352:GLU:HA	36:Z:355:LYS:HD2	2.02	0.42
36:Z:439:ASN:OD1	36:Z:440:ALA:N	2.52	0.42
36:Z:469:ALA:O	36:Z:473:ILE:HG12	2.19	0.42
2:A3:327:GLU:OE2	2:A4:177:ASP:HB3	2.20	0.42
2:A3:356:ALA:O	2:A3:360:THR:HG23	2.19	0.42
4:AC:189:LEU:HA	4:AC:192:HIS:HD1	1.84	0.42
4:AC:316:CYS:O	4:AC:378:LEU:N	2.46	0.42
3:AF:132:GLY:HA3	3:AF:163:ILE:H	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AF:324:LYS:HD3	4:AG:210:TYR:HE1	1.85	0.42
3:AH:77:ARG:HD3	3:AH:90:PHE:CE2	2.54	0.42
3:AH:319:GLY:HA2	3:AH:357:PRO:HG3	2.02	0.42
4:AI:119:LEU:HB3	4:AI:123:ARG:NH2	2.35	0.42
4:AI:319:TYR:HA	4:AI:374:ALA:O	2.20	0.42
4:AI:424:ASP:O	4:AI:428:LEU:HG	2.19	0.42
4:AM:160:ASP:OD1	4:AM:161:TYR:N	2.53	0.42
4:AM:211:ASP:HA	4:AM:214:ARG:CZ	2.50	0.42
1:B:383:PHE:HA	1:B:386:ASP:OD2	2.19	0.42
1:B:403:GLU:O	1:B:406:ARG:HG2	2.20	0.42
1:B:417:SER:HA	1:B:420:LEU:HD12	2.01	0.42
5:B1:325:SER:OG	5:B1:326:ASN:N	2.53	0.42
5:B2:6:PHE:HB2	5:B2:11:ARG:HH12	1.85	0.42
5:B2:118:THR:HG23	8:D4:409:ARG:HH12	1.84	0.42
5:B2:309:MET:HA	5:B2:312:LYS:HD2	2.02	0.42
5:B3:302:GLU:CG	5:B3:306:ARG:HH12	2.33	0.42
5:B3:369:HIS:NE2	5:B4:31:GLN:HG3	2.34	0.42
5:B7:69:ASP:HA	5:B7:72:ASN:ND2	2.35	0.42
5:B7:267:LYS:O	5:B7:271:GLU:OE1	2.37	0.42
5:B7:333:GLN:HA	5:B7:336:TYR:HD2	1.85	0.42
5:B8:67:ARG:O	5:B8:71:VAL:HG23	2.20	0.42
5:B8:201:LEU:HA	5:B9:315:HIS:HD2	1.81	0.42
5:B8:389:LYS:HE2	5:B8:389:LYS:HB3	1.81	0.42
3:BB:309:ARG:N	3:BB:372:THR:OG1	2.37	0.42
4:BC:53:PHE:HB3	4:BC:61:HIS:HB3	2.02	0.42
4:BC:320:ARG:CZ	4:BC:360:PRO:HA	2.49	0.42
3:BD:25:SER:O	3:BD:29:GLY:N	2.53	0.42
4:BE:349:THR:HG23	3:BF:179:VAL:HG12	2.01	0.42
3:BH:16:ILE:HD13	3:BH:226:ASN:ND2	2.33	0.42
3:BH:108:GLU:O	3:BH:112:LEU:HD23	2.18	0.42
4:BI:1:MET:O	4:BI:131:GLY:HA3	2.19	0.42
4:BI:43:GLY:C	4:BI:45:GLY:H	2.28	0.42
3:BJ:20:PHE:O	3:BJ:24:ILE:HG13	2.18	0.42
3:BJ:224:ASP:O	3:BJ:228:LEU:HG	2.19	0.42
4:BK:399:TYR:HE1	4:BK:418:PHE:HB3	1.85	0.42
3:BL:206:ALA:O	3:BL:210:ILE:HG12	2.19	0.42
6:C:59:VAL:O	6:C:62:ARG:NH1	2.53	0.42
6:C:148:THR:HG23	6:C:249:PRO:CG	2.46	0.42
7:C2:364:HIS:HA	7:C2:367:LYS:HD2	2.01	0.42
7:C2:379:ILE:HD13	7:C2:379:ILE:HA	1.84	0.42
7:C3:178:LYS:O	7:C3:182:GLU:OE1	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C4:126:ARG:HD2	7:C4:130:ASP:OD2	2.19	0.42
7:C4:229:CYS:C	7:C4:233:MET:HE3	2.45	0.42
7:C6:114:ARG:NH1	7:C7:367:LYS:HG3	2.33	0.42
3:CB:113:VAL:HA	3:CB:116:VAL:HG22	2.01	0.42
3:CD:378:PHE:CD1	3:CD:419:VAL:HG22	2.54	0.42
4:CE:70:LEU:HA	4:CE:95:GLY:HA3	2.00	0.42
4:CE:275:VAL:HG23	4:CE:275:VAL:O	2.19	0.42
3:CF:138:SER:HB3	39:CF:501:GTP:H5"	2.00	0.42
3:CF:315:ALA:HA	3:CF:367:PHE:HA	2.01	0.42
4:CG:196:GLU:HG2	4:CG:197:HIS:CE1	2.54	0.42
4:CG:286:LEU:HD23	4:CG:286:LEU:H	1.84	0.42
4:CG:290:GLU:OE1	4:CG:290:GLU:N	2.39	0.42
4:CI:39:ASP:HB3	13:G2:244:ARG:CZ	2.50	0.42
4:CI:387:ALA:O	4:CI:391:LEU:N	2.50	0.42
4:CK:319:TYR:HB2	4:CK:355:ILE:HD13	2.02	0.42
3:CL:54:ALA:HB3	3:CL:58:LYS:HB2	2.02	0.42
3:CL:69:GLU:CD	3:CL:71:GLY:H	2.28	0.42
3:CL:318:ARG:HG3	3:CL:354:CYS:SG	2.59	0.42
4:CM:16:ILE:HD12	4:CM:16:ILE:H	1.84	0.42
4:CM:271:THR:HA	4:CM:302:MET:HE1	2.01	0.42
4:CM:279:GLU:O	4:CM:283:HIS:HD2	2.03	0.42
7:Ca:414:ASP:N	7:Ca:417:GLN:OE1	2.52	0.42
7:Cb:406:ARG:HD2	7:Cb:410:GLU:O	2.19	0.42
7:Cc:447:SER:O	7:Cc:451:THR:HG23	2.20	0.42
6:D:152:ALA:O	6:D:156:HIS:ND1	2.51	0.42
6:D:254:LYS:O	6:D:256:THR:HG23	2.19	0.42
6:D:348:ASP:OD2	6:D:350:GLU:HB2	2.20	0.42
8:D1:47:ARG:NH1	8:D1:48:THR:O	2.53	0.42
8:D2:246:LYS:HE2	8:D2:246:LYS:HB2	1.73	0.42
8:D3:163:GLN:HG3	8:D3:165:PRO:HD2	2.00	0.42
8:D4:119:ARG:O	8:D4:123:GLU:OE1	2.38	0.42
8:D4:260:PHE:HE1	10:E3:12:SER:HB3	1.83	0.42
8:D8:447:GLN:OE1	11:F2:362:ALA:HB1	2.20	0.42
4:DC:122:ILE:O	4:DC:126:ALA:N	2.45	0.42
4:DC:346:TRP:HH2	4:DC:435:VAL:HA	1.85	0.42
3:DD:83:GLN:O	3:DD:86:ARG:NH2	2.52	0.42
3:DD:375:GLN:O	3:DD:379:LYS:HB2	2.20	0.42
4:DE:333:ALA:O	4:DE:337:THR:HG23	2.19	0.42
4:DG:408:TYR:HD2	4:DG:418:PHE:HZ	1.67	0.42
4:DI:262:TYR:HE1	3:DJ:393:ALA:HA	1.84	0.42
4:DI:438:ASP:OD1	4:DI:438:ASP:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DJ:391:ARG:C	3:DJ:392:LYS:HG3	2.43	0.42
4:DK:168:GLU:HB2	4:DK:201:ALA:HA	2.01	0.42
10:E3:50:LYS:HB2	10:E3:61:GLN:NE2	2.33	0.42
4:EA:306:ASP:HB3	4:EA:309:HIS:ND1	2.34	0.42
3:EB:12:CYS:SG	3:EB:13:GLY:N	2.92	0.42
3:EB:286:VAL:HG12	3:EB:329:GLN:HG3	2.01	0.42
3:EB:324:LYS:HE2	4:EC:222:PRO:CG	2.49	0.42
4:EC:326:LYS:HG3	3:ED:220:PRO:HD2	2.02	0.42
3:ED:258:VAL:O	4:EE:407:TRP:NE1	2.47	0.42
3:ED:266:PHE:CD1	3:ED:370:ASN:HB2	2.53	0.42
4:EE:14:VAL:O	4:EE:18:ASN:N	2.41	0.42
4:EG:301:GLN:HE21	4:EG:303:VAL:HG23	1.84	0.42
4:EI:28:HIS:HB2	4:EI:30:ILE:HG12	2.01	0.42
4:EI:176:GLN:NE2	4:EI:177:VAL:HG23	2.35	0.42
4:EI:201:ALA:HB3	4:EI:267:PHE:HD1	1.84	0.42
4:EI:271:THR:HB	4:EI:377:MET:HE2	2.01	0.42
4:EI:288:VAL:O	4:EI:292:THR:OG1	2.28	0.42
3:EJ:275:SER:OG	3:EJ:276:ARG:NH1	2.53	0.42
4:EK:402:ARG:HB3	4:EK:405:VAL:HG11	2.02	0.42
11:F1:381:ALA:O	11:F1:385:LYS:HD3	2.19	0.42
11:F3:201:ARG:NH1	11:F3:207:VAL:H	2.17	0.42
11:F5:329:SER:O	11:F5:332:MET:HG3	2.19	0.42
11:F9:373:ASN:O	11:F9:376:MET:HG3	2.20	0.42
4:FA:333:ALA:HA	4:FA:336:LYS:HD2	2.00	0.42
3:FB:66:VAL:HA	3:FB:91:VAL:O	2.20	0.42
3:FB:166:THR:OG1	3:FB:198:GLU:O	2.35	0.42
3:FB:375:GLN:HA	3:FB:378:PHE:CE1	2.55	0.42
4:FC:290:GLU:O	4:FC:294:ALA:N	2.46	0.42
4:FC:319:TYR:HB2	4:FC:355:ILE:HD13	2.02	0.42
4:FE:102:ASN:ND2	4:FE:411:GLU:OE2	2.42	0.42
4:FE:401:LYS:H	4:FE:401:LYS:HG2	1.63	0.42
3:FF:174:LYS:HA	3:FF:174:LYS:HD3	1.84	0.42
4:FG:256:GLN:HE22	3:FH:397:TRP:HE1	1.68	0.42
3:FH:113:VAL:HA	3:FH:116:VAL:HG22	2.01	0.42
3:FH:323:MET:HE2	4:FI:224:TYR:CD1	2.53	0.42
4:FI:88:HIS:HB3	4:FI:91:GLN:HG3	2.02	0.42
4:FK:295:CYS:HB2	4:FK:377:MET:HG2	2.02	0.42
3:FL:52:ASN:CG	3:FL:62:ARG:HD3	2.44	0.42
11:Fa:357:LEU:HD12	11:Fa:458:LYS:NZ	2.34	0.42
11:Fb:402:ARG:HD2	11:Fb:406:GLU:C	2.45	0.42
11:Ff:108:ALA:HA	11:Ff:111:LEU:HD12	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Fg:399:ARG:HH12	11:Fg:417:VAL:HG23	1.85	0.42
11:Fk:234:LYS:HA	11:Fk:237:ASP:HB2	2.00	0.42
11:Fl:425:ASP:HA	11:Fl:428:GLN:HE21	1.85	0.42
11:Fm:364:ILE:O	11:Fm:368:ILE:HG13	2.19	0.42
12:G:297:GLU:OE1	12:G:297:GLU:N	2.46	0.42
13:G1:124:TYR:CZ	13:G1:165:TRP:HB3	2.55	0.42
13:G3:249:TRP:CZ2	13:G3:340:ARG:HG2	2.54	0.42
13:G3:355:TYR:O	13:G3:360:GLY:N	2.52	0.42
14:G4:434:LEU:HD23	14:G4:458:LEU:HD21	2.01	0.42
14:G5:550:GLN:HA	14:G5:553:LYS:HE3	2.01	0.42
14:G5:637:MET:HG3	14:G5:638:PHE:CD1	2.54	0.42
14:G5:657:ASP:HA	14:G5:660:ARG:HG2	1.99	0.42
14:G6:635:PHE:HD2	14:G6:698:ASN:HA	1.84	0.42
14:G6:721:TRP:NE1	14:G6:725:PRO:HD2	2.35	0.42
4:GA:263:PRO:HB2	4:GA:264:ARG:NH1	2.35	0.42
3:GD:249:ASP:OD2	3:GD:251:ARG:HB3	2.19	0.42
3:GD:274:THR:HG21	3:GD:279:GLN:HG3	2.01	0.42
3:GD:421:GLU:O	3:GD:425:TYR:HD2	2.03	0.42
4:GE:196:GLU:HG2	4:GE:197:HIS:ND1	2.35	0.42
4:GE:234:ILE:O	4:GE:237:SER:OG	2.37	0.42
4:GE:245:ASP:O	4:GE:356:ASN:ND2	2.53	0.42
3:GF:7:LEU:HD13	3:GF:64:VAL:HB	2.01	0.42
3:GF:246:LEU:HD12	3:GF:352:ALA:HB1	2.01	0.42
4:GG:196:GLU:OE1	4:GG:196:GLU:N	2.43	0.42
4:GG:244:PHE:HB2	4:GG:356:ASN:HD21	1.84	0.42
4:GG:296:PHE:HE2	4:GG:335:ILE:HG21	1.84	0.42
4:GG:320:ARG:HA	4:GG:356:ASN:HB3	2.02	0.42
3:GH:136:THR:HG22	3:GH:167:PHE:CD2	2.54	0.42
4:GI:6:SER:HB3	4:GI:65:ALA:HB2	2.01	0.42
4:GI:21:TRP:NE1	4:GI:63:PRO:HB3	2.35	0.42
3:GJ:261:PRO:HD3	4:GK:406:HIS:CD2	2.55	0.42
3:GJ:309:ARG:HE	3:GJ:426:GLN:HE21	1.68	0.42
3:GJ:324:LYS:NZ	4:GK:222:PRO:O	2.36	0.42
4:GK:139:HIS:HE1	4:GK:168:GLU:HB3	1.84	0.42
4:GK:172:TYR:CD1	4:GK:173:PRO:HD2	2.55	0.42
4:GK:329:ASN:OD1	4:GK:330:ALA:N	2.52	0.42
4:GK:390:ARG:HA	4:GK:393:HIS:CD2	2.54	0.42
3:GL:52:ASN:CG	3:GL:62:ARG:HD3	2.45	0.42
3:GL:317:PHE:O	3:GL:354:CYS:N	2.38	0.42
15:H2:34:THR:O	15:H2:38:THR:HG23	2.18	0.42
15:H2:213:ILE:HG22	15:H2:215:ARG:NH2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H3:292:MET:HG3	15:H3:293:GLN:CD	2.44	0.42
15:H3:298:LEU:HD12	15:H3:298:LEU:HA	1.84	0.42
15:H6:309:GLN:H	15:H6:309:GLN:HG3	1.73	0.42
4:HA:36:MET:HG3	4:HA:41:THR:OG1	2.19	0.42
4:HA:304:LYS:HD2	4:HA:304:LYS:N	2.33	0.42
4:HA:422:ARG:HB3	4:HA:422:ARG:CZ	2.50	0.42
3:HD:322:SER:HB3	3:HD:325:GLU:OE1	2.18	0.42
4:HG:428:LEU:O	4:HG:432:TYR:N	2.48	0.42
4:HI:285:GLN:NE2	4:HI:286:LEU:O	2.53	0.42
4:HI:431:ASP:O	4:HI:434:GLU:HG3	2.19	0.42
3:HJ:23:VAL:O	3:HJ:27:GLU:HG3	2.19	0.42
3:HJ:398:TYR:O	3:HJ:403:MET:HE2	2.19	0.42
3:HL:111:GLU:OE1	3:HL:111:GLU:N	2.43	0.42
4:IA:102:ASN:HD22	4:IA:105:ARG:HG3	1.85	0.42
4:IA:137:ILE:HG22	4:IA:139:HIS:ND1	2.35	0.42
3:IB:66:VAL:HA	3:IB:91:VAL:O	2.19	0.42
3:ID:415:MET:O	3:ID:419:VAL:HG23	2.20	0.42
4:IE:12:ALA:CB	39:IE:501:GTP:H5"	2.49	0.42
4:IE:72:PRO:HA	4:IE:75:VAL:HG12	2.02	0.42
4:IE:196:GLU:HG2	4:IE:197:HIS:ND1	2.35	0.42
4:IE:315:CYS:O	4:IE:351:PHE:HA	2.19	0.42
3:IF:16:ILE:O	3:IF:20:PHE:N	2.36	0.42
3:IF:415:MET:HA	3:IF:418:LEU:HB3	2.00	0.42
4:II:253:THR:O	4:II:257:THR:HG23	2.19	0.42
3:IJ:206:ALA:O	3:IJ:210:ILE:HG12	2.19	0.42
3:IJ:228:LEU:O	3:IJ:232:THR:HG23	2.19	0.42
4:IK:149:PHE:CE1	4:IK:152:LEU:HD11	2.55	0.42
4:IM:321:GLY:HA3	4:IM:372:GLN:O	2.18	0.42
4:IM:389:ALA:HA	4:IM:392:ASP:OD2	2.19	0.42
18:J:160:LYS:NZ	3:KH:40:SER:HA	2.35	0.42
19:J3:179:TYR:HA	19:J3:182:GLU:HG3	2.01	0.42
4:JA:176:GLN:NE2	4:JA:177:VAL:HG23	2.34	0.42
4:JA:386:GLU:HA	4:JA:389:ALA:HB3	2.00	0.42
4:JC:150:ALA:HA	4:JC:153:LEU:HG	2.00	0.42
4:JC:398:MET:O	4:JC:402:ARG:N	2.53	0.42
3:JH:32:PRO:O	3:JH:83:GLN:NE2	2.50	0.42
4:JI:5:ILE:HD13	4:JI:64:ARG:HB3	2.01	0.42
3:JJ:300:MET:N	3:JJ:300:MET:SD	2.93	0.42
4:JK:70:LEU:HB3	4:JK:97:GLU:O	2.19	0.42
4:JK:280:LYS:HD2	4:JK:280:LYS:HA	1.85	0.42
4:JK:320:ARG:N	4:JK:374:ALA:O	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JL:182:PRO:HB2	3:JL:388:MET:HE1	2.01	0.42
21:K2:378:ILE:HD12	21:K2:419:THR:HG22	2.01	0.42
21:K2:389:ALA:HB3	4:KE:163:LYS:HD2	2.02	0.42
21:K2:476:GLN:HG3	21:K2:479:ARG:HH12	1.83	0.42
21:K3:330:ASN:HD21	21:K3:468:ARG:NH2	2.18	0.42
21:K3:411:GLU:O	21:K3:414:ARG:HG3	2.19	0.42
21:K3:421:LEU:HG	21:K3:424:ARG:HH21	1.85	0.42
21:K4:191:ILE:HD13	21:K5:20:GLU:OE2	2.20	0.42
21:K4:255:VAL:O	21:K4:259:ALA:N	2.52	0.42
21:K4:462:ARG:O	21:K4:466:ARG:NH1	2.53	0.42
4:KA:411:GLU:OE2	4:KA:413:MET:HE1	2.20	0.42
3:KB:312:THR:OG1	3:KB:370:ASN:HB2	2.19	0.42
4:KC:47:ASP:HB3	4:KC:49:PHE:CE2	2.55	0.42
4:KC:187:SER:O	4:KC:190:THR:OG1	2.30	0.42
3:KD:28:HIS:HA	3:KD:43:GLN:OE1	2.19	0.42
3:KD:32:PRO:HA	3:KD:81:PHE:CE1	2.55	0.42
4:KE:306:ASP:OD2	4:KE:309:HIS:N	2.52	0.42
3:KF:148:GLY:O	3:KF:152:ILE:HG12	2.19	0.42
3:KF:318:ARG:C	3:KF:321:MET:HE1	2.45	0.42
4:KG:45:GLY:HA2	4:KG:49:PHE:HE1	1.83	0.42
4:KG:167:LEU:HB3	4:KG:169:PHE:CE1	2.55	0.42
3:KH:258:VAL:HB	4:KI:407:TRP:CZ2	2.53	0.42
3:KH:267:MET:HA	3:KH:268:PRO:HD3	1.90	0.42
4:KI:10:GLY:O	4:KI:14:VAL:HG13	2.18	0.42
4:KI:263:PRO:HD3	3:KJ:396:HIS:CD2	2.54	0.42
3:KJ:327:ASP:O	3:KJ:331:LEU:HD23	2.19	0.42
4:KK:36:MET:HG3	4:KK:41:THR:OG1	2.20	0.42
4:KK:93:ILE:HG13	4:KK:118:VAL:HG12	2.00	0.42
20:L:12:MET:O	20:L:16:ASN:N	2.51	0.42
20:L:233:VAL:HG23	20:L:249:VAL:HG22	2.01	0.42
22:L2:47:LYS:HD2	22:L2:48:THR:HA	2.01	0.42
22:L2:222:PRO:O	22:L2:226:ARG:NE	2.45	0.42
3:LB:224:ASP:O	3:LB:228:LEU:HG	2.20	0.42
4:LC:88:HIS:O	4:LC:92:LEU:HD23	2.20	0.42
4:LC:120:ASP:OD1	4:LC:123:ARG:NH1	2.53	0.42
4:LC:154:MET:HA	4:LC:157:LEU:HG	2.01	0.42
3:LD:280:GLN:CG	27:Q:74:LYS:HZ3	2.25	0.42
4:LE:22:GLU:O	4:LE:26:LEU:HD23	2.20	0.42
4:LE:176:GLN:NE2	4:LE:207:GLU:OE2	2.52	0.42
4:LE:220:GLU:OE1	4:LE:220:GLU:N	2.49	0.42
4:LE:287:SER:OG	4:LE:290:GLU:OE1	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LF:130:LEU:HB2	3:LF:162:ARG:NH1	2.35	0.42
4:LG:102:ASN:HB3	4:LG:105:ARG:HB2	2.02	0.42
4:LG:208:ALA:HA	4:LG:211:ASP:HB2	2.01	0.42
4:LG:311:LYS:HE3	4:LG:344:VAL:HA	2.00	0.42
3:LH:324:LYS:HE2	4:LI:222:PRO:HD2	2.01	0.42
4:LI:245:ASP:O	4:LI:356:ASN:ND2	2.52	0.42
4:LI:316:CYS:O	4:LI:378:LEU:N	2.45	0.42
3:LJ:322:SER:OG	3:LJ:323:MET:SD	2.78	0.42
4:LK:54:SER:N	4:LK:62:VAL:O	2.52	0.42
24:M3:49:GLN:HB2	24:M3:52:ILE:HG22	2.02	0.42
3:MB:255:VAL:HG12	4:MC:407:TRP:CE3	2.55	0.42
3:MB:391:ARG:C	3:MB:392:LYS:HG3	2.44	0.42
4:MC:88:HIS:CE1	4:MC:90:GLU:HG2	2.55	0.42
4:MC:213:CYS:HB3	4:MC:222:PRO:HG3	2.02	0.42
3:MD:47:ILE:HD11	3:MD:51:TYR:CD2	2.55	0.42
3:MD:66:VAL:HA	3:MD:91:VAL:O	2.20	0.42
3:MD:289:LEU:O	3:MD:293:MET:HG2	2.20	0.42
4:ME:35:GLN:NE2	4:ME:59:GLY:O	2.53	0.42
3:MF:4:ILE:HB	3:MF:50:TYR:CE1	2.55	0.42
3:MH:20:PHE:HA	3:MH:230:SER:HB2	2.01	0.42
3:MH:83:GLN:OE1	3:MH:83:GLN:N	2.38	0.42
3:MH:299:MET:HE3	3:MH:303:CYS:C	2.45	0.42
4:MI:21:TRP:CE3	4:MI:24:TYR:HD2	2.37	0.42
4:MI:387:ALA:O	4:MI:391:LEU:HG	2.20	0.42
3:MJ:148:GLY:O	3:MJ:152:ILE:HG12	2.20	0.42
4:MK:139:HIS:O	4:MK:170:ALA:HA	2.20	0.42
3:ML:67:ASP:HB3	3:ML:73:MET:SD	2.60	0.42
4:MM:88:HIS:HE1	4:MM:90:GLU:CD	2.27	0.42
4:MM:244:PHE:HD2	4:MM:358:GLN:HB2	1.85	0.42
26:N1:97:GLU:HA	26:N1:100:GLU:C	2.44	0.42
3:NB:39:ASP:OD1	3:NB:43:GLN:NE2	2.53	0.42
3:NB:148:GLY:O	3:NB:152:ILE:HG12	2.20	0.42
3:NB:311:LEU:HB2	3:NB:370:ASN:O	2.20	0.42
3:NB:324:LYS:HG3	4:NC:221:ARG:NH1	2.34	0.42
4:NE:234:ILE:O	4:NE:237:SER:OG	2.35	0.42
3:NH:130:LEU:HB2	3:NH:162:ARG:HH11	1.84	0.42
3:NH:371:SER:OG	3:NH:372:THR:N	2.52	0.42
3:NH:378:PHE:HA	3:NH:381:ILE:HG22	2.01	0.42
3:NH:391:ARG:C	3:NH:392:LYS:HG3	2.45	0.42
4:NI:132:LEU:O	4:NI:132:LEU:HD12	2.20	0.42
4:NI:254:GLU:OE1	4:NI:254:GLU:N	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NJ:238:THR:HB	3:NJ:242:PHE:HD2	1.85	0.42
4:NK:423:GLU:HA	4:NK:426:ALA:HB3	2.01	0.42
3:NL:47:ILE:HG12	3:NL:59:TYR:CD2	2.55	0.42
4:OA:280:LYS:HA	4:OA:280:LYS:HD2	1.76	0.42
3:OB:239:CYS:SG	3:OB:316:VAL:HG11	2.60	0.42
3:OB:290:THR:HG21	3:OB:329:GLN:HB3	2.01	0.42
4:OC:182:VAL:O	4:OC:185:TYR:HB2	2.20	0.42
3:OD:87:PRO:HA	3:OD:90:PHE:CD2	2.54	0.42
3:OD:404:ASP:OD1	3:OD:407:GLU:HG3	2.20	0.42
3:OH:39:ASP:OD1	3:OH:39:ASP:N	2.52	0.42
3:OH:188:SER:O	3:OH:192:LEU:HG	2.19	0.42
3:OH:385:PHE:CZ	3:OH:408:PHE:HB3	2.48	0.42
3:OJ:70:PRO:HA	3:OJ:73:MET:HE3	2.01	0.42
3:OL:156:ARG:CZ	3:OL:164:MET:HE3	2.50	0.42
3:OL:271:ALA:HB1	3:OL:272:PRO:CD	2.50	0.42
29:P1:58:ASN:HB3	29:P1:101:ARG:HD2	2.01	0.42
29:P1:97:ASP:HB2	29:P1:104:ILE:HD11	2.01	0.42
29:P1:188:ASP:HB2	29:P1:195:TRP:NE1	2.35	0.42
29:P1:353:LYS:HG2	29:P1:354:LYS:HG2	2.00	0.42
29:P1:498:MET:SD	29:P1:498:MET:N	2.92	0.42
29:P1:552:ASP:OD2	29:P1:595:ILE:N	2.44	0.42
29:P1:566:ASP:O	29:P1:568:LEU:HG	2.20	0.42
29:P3:158:VAL:HG11	29:P3:181:THR:HB	2.01	0.42
3:PB:174:LYS:HG2	3:PB:205:GLU:OE2	2.19	0.42
4:PC:280:LYS:HD2	4:PC:280:LYS:HA	1.75	0.42
4:PC:333:ALA:HA	4:PC:336:LYS:HD2	2.02	0.42
4:PE:163:LYS:HA	4:PE:163:LYS:HD3	1.76	0.42
3:PF:5:VAL:HG23	3:PF:130:LEU:HD21	2.01	0.42
3:PF:123:GLU:O	3:PF:126:SER:OG	2.31	0.42
3:PF:156:ARG:NH1	3:PF:195:ASN:O	2.53	0.42
3:PF:211:CYS:HA	3:PF:215:LEU:HD12	2.02	0.42
3:PH:324:LYS:HE2	4:PI:222:PRO:HD2	2.02	0.42
3:PH:350:LYS:HE3	4:PI:181:VAL:N	2.33	0.42
3:PH:422:TYR:O	3:PH:426:GLN:HG3	2.20	0.42
4:PI:11:GLN:O	4:PI:14:VAL:HG22	2.20	0.42
4:PI:140:SER:HB2	4:PI:171:ILE:HG22	2.01	0.42
3:PJ:12:CYS:HA	3:PJ:15:GLN:NE2	2.20	0.42
4:PK:287:SER:HA	4:PK:373:ARG:CZ	2.50	0.42
3:PL:52:ASN:ND2	3:PL:62:ARG:HD3	2.35	0.42
30:Q1:1359:SER:HB2	30:Q1:1362:GLU:HG2	2.01	0.42
30:Q2:1446:LYS:HA	30:Q2:1449:HIS:NE2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:QC:76:ASP:OD1	4:QC:79:ARG:NH1	2.53	0.42
4:QC:262:TYR:HE1	3:QD:393:ALA:HA	1.83	0.42
3:QD:182:PRO:HB2	3:QD:388:MET:CE	2.49	0.42
4:QE:286:LEU:HD23	4:QE:286:LEU:H	1.85	0.42
4:QG:3:GLU:CD	4:QG:132:LEU:H	2.26	0.42
4:QG:274:PRO:HG3	4:QG:374:ALA:HA	2.01	0.42
3:QH:267:MET:HA	3:QH:268:PRO:HD3	1.93	0.42
3:QJ:392:LYS:HD2	3:QJ:392:LYS:O	2.20	0.42
4:QK:1:MET:HE3	4:QK:50:ASN:ND2	2.35	0.42
4:QK:9:VAL:HG23	4:QK:149:PHE:HD2	1.83	0.42
3:QL:32:PRO:HA	3:QL:81:PHE:CE1	2.54	0.42
4:QM:393:HIS:HA	4:QM:396:ASP:CG	2.45	0.42
27:R:164:LEU:HA	27:R:167:HIS:CD2	2.54	0.42
3:RB:117:LEU:HA	3:RB:120:VAL:HG22	2.01	0.42
3:RB:255:VAL:HA	4:RC:407:TRP:CE2	2.55	0.42
4:RC:5:ILE:HB	4:RC:135:PHE:CD1	2.55	0.42
3:RD:3:GLU:OE2	3:RD:128:ASP:N	2.51	0.42
3:RD:166:THR:OG1	3:RD:198:GLU:O	2.26	0.42
3:RD:254:ALA:O	3:RD:258:VAL:HG12	2.20	0.42
4:RE:150:ALA:O	4:RE:154:MET:HG3	2.19	0.42
3:RF:4:ILE:HG12	3:RF:131:GLN:OE1	2.19	0.42
3:RF:46:ARG:HH22	4:RG:73:THR:HG23	1.85	0.42
3:RF:324:LYS:HE2	4:RG:222:PRO:HD2	2.02	0.42
4:RG:230:LEU:O	4:RG:234:ILE:HG12	2.20	0.42
4:RG:257:THR:HA	3:RH:397:TRP:CE2	2.54	0.42
3:RH:12:CYS:SG	39:RH:501:GTP:H5'	2.60	0.42
3:RH:151:LEU:O	3:RH:155:ILE:HG23	2.19	0.42
3:RH:320:ARG:HD2	3:RH:355:ASP:O	2.20	0.42
4:RI:122:ILE:O	4:RI:126:ALA:N	2.46	0.42
4:RI:125:LEU:HD13	4:RI:128:LEU:HD21	2.01	0.42
4:RI:141:PHE:CE2	4:RI:203:MET:HG3	2.54	0.42
4:RI:152:LEU:HD13	4:RI:156:ARG:HH22	1.85	0.42
4:RI:234:ILE:O	4:RI:237:SER:OG	2.34	0.42
4:RI:252:LEU:HD12	4:RI:253:THR:N	2.34	0.42
4:RI:306:ASP:OD2	4:RI:309:HIS:ND1	2.52	0.42
4:RK:234:ILE:O	4:RK:237:SER:OG	2.36	0.42
3:RL:251:ARG:HH22	4:RM:105:ARG:NE	2.17	0.42
3:RL:271:ALA:HB1	3:RL:272:PRO:CD	2.49	0.42
3:RL:302:ALA:HB1	3:RL:377:LEU:HD11	2.01	0.42
4:RM:46:ASP:HA	4:RM:50:ASN:HB3	2.02	0.42
4:SC:174:ALA:HB3	4:SC:177:VAL:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:SD:52:ASN:CG	3:SD:62:ARG:HD3	2.45	0.42
3:SD:52:ASN:ND2	3:SD:62:ARG:HD3	2.34	0.42
4:SE:30:ILE:HD13	4:SE:36:MET:HE1	2.02	0.42
4:SE:145:THR:HG23	39:SE:501:GTP:O3B	2.19	0.42
4:SE:346:TRP:N	4:SE:346:TRP:CD1	2.85	0.42
3:SF:68:LEU:HD12	3:SF:97:ALA:HB2	2.00	0.42
3:SF:148:GLY:O	3:SF:152:ILE:HG23	2.19	0.42
3:SF:246:LEU:HB3	3:SF:353:VAL:O	2.20	0.42
3:SH:103:LYS:HD2	3:SH:104:GLY:N	2.34	0.42
3:SH:406:MET:O	3:SH:409:THR:OG1	2.30	0.42
4:SI:167:LEU:HD13	4:SI:200:CYS:HB2	2.00	0.42
4:SI:260:VAL:O	3:SJ:397:TRP:HH2	2.02	0.42
3:SJ:267:MET:O	3:SJ:368:ILE:HD12	2.19	0.42
4:SK:22:GLU:HG2	4:SK:83:TYR:HE2	1.85	0.42
3:SL:54:ALA:HB3	3:SL:58:LYS:HB3	2.01	0.42
3:SL:255:VAL:HG12	4:SM:407:TRP:CD2	2.55	0.42
4:SM:386:GLU:HA	4:SM:389:ALA:HB3	2.01	0.42
3:TB:4:ILE:HB	3:TB:50:TYR:CE1	2.54	0.42
3:TB:318:ARG:HB3	3:TB:364:SER:OG	2.20	0.42
3:TD:47:ILE:HG12	3:TD:59:TYR:CD2	2.55	0.42
3:TD:305:PRO:HB2	3:TD:310:TYR:HE1	1.84	0.42
4:TE:269:LEU:N	4:TE:379:SER:O	2.44	0.42
3:TF:19:LYS:O	3:TF:22:GLU:HG3	2.20	0.42
3:TF:121:ARG:HA	3:TF:124:ALA:HB3	2.01	0.42
4:TG:72:PRO:HA	4:TG:75:VAL:HG12	2.02	0.42
3:TH:286:VAL:HG11	3:TH:325:GLU:HB2	2.02	0.42
4:TI:255:PHE:O	4:TI:259:LEU:HB2	2.20	0.42
3:TJ:6:HIS:CE1	3:TJ:136:THR:HG23	2.55	0.42
4:TK:58:ALA:HA	33:U:258:LYS:HD2	2.02	0.42
4:TK:390:ARG:HA	4:TK:393:HIS:CD2	2.54	0.42
3:TL:154:LYS:HG3	3:TL:155:ILE:HG23	2.01	0.42
3:TL:267:MET:HA	3:TL:268:PRO:HD3	1.89	0.42
3:TL:426:GLN:NE2	3:TL:427:ASP:HB2	2.35	0.42
4:TM:375:VAL:HG13	4:TM:377:MET:SD	2.60	0.42
4:TM:406:HIS:HA	4:TM:409:VAL:HG22	2.01	0.42
3:TN:6:HIS:HB3	3:TN:21:TRP:HZ2	1.84	0.42
33:U:268:ASN:OD1	33:U:269:GLU:N	2.52	0.42
4:UA:67:PHE:O	4:UA:93:ILE:N	2.53	0.42
4:UA:265:ILE:HA	4:UA:267:PHE:CE2	2.55	0.42
4:UA:318:LEU:O	4:UA:375:VAL:HA	2.20	0.42
4:UA:345:ASP:N	4:UA:345:ASP:OD1	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UB:101:TRP:HB2	3:UB:184:ASN:ND2	2.34	0.42
4:UC:252:LEU:HD12	4:UC:253:THR:N	2.34	0.42
4:UC:263:PRO:O	4:UC:264:ARG:HB2	2.19	0.42
3:UD:139:LEU:N	3:UD:168:SER:OG	2.52	0.42
3:UF:145:SER:HB2	3:UF:188:SER:HB3	2.02	0.42
3:UF:288:GLU:HA	3:UF:291:GLN:HG3	2.01	0.42
3:UF:318:ARG:HA	3:UF:354:CYS:HB3	2.00	0.42
4:UG:12:ALA:HB2	39:UG:501:GTP:H5"	2.00	0.42
4:UG:213:CYS:O	4:UG:218:ASP:N	2.53	0.42
4:UG:296:PHE:CE2	4:UG:335:ILE:HG21	2.55	0.42
3:UH:246:LEU:HB3	3:UH:353:VAL:O	2.19	0.42
4:UI:386:GLU:HA	4:UI:389:ALA:HB3	2.01	0.42
3:UJ:199:THR:N	3:UJ:264:HIS:O	2.53	0.42
3:UJ:216:LYS:HB3	3:UJ:276:ARG:NH2	2.33	0.42
4:UK:212:ILE:HG13	4:UK:215:ARG:NH2	2.35	0.42
3:UL:81:PHE:O	3:UL:84:ILE:HG22	2.18	0.42
3:UL:286:VAL:HG12	3:UL:329:GLN:HG3	2.02	0.42
3:VB:302:ALA:HB1	3:VB:377:LEU:HD11	2.01	0.42
3:VB:324:LYS:HE2	4:VC:222:PRO:CD	2.50	0.42
3:VD:311:LEU:HB2	3:VD:370:ASN:O	2.20	0.42
4:VE:280:LYS:HD2	4:VE:280:LYS:HA	1.77	0.42
4:VG:176:GLN:NE2	4:VG:177:VAL:HG23	2.35	0.42
4:VK:254:GLU:OE1	4:VK:254:GLU:N	2.43	0.42
3:VL:152:ILE:HD12	3:VL:195:ASN:HB2	2.00	0.42
3:VL:240:LEU:HD13	3:VL:248:ALA:HB1	2.02	0.42
33:W:240:LEU:HA	33:W:243:GLN:HG3	2.01	0.42
4:WC:120:ASP:HB3	34:XB:6:PHE:CE2	2.55	0.42
4:WC:182:VAL:O	4:WC:185:TYR:HB2	2.20	0.42
4:WE:11:GLN:HB2	4:WE:69:ASP:OD1	2.19	0.42
4:WE:139:HIS:O	4:WE:170:ALA:HA	2.20	0.42
4:WG:72:PRO:HA	4:WG:75:VAL:HG12	2.02	0.42
4:WG:311:LYS:N	4:WG:382:THR:OG1	2.52	0.42
4:WG:433:GLU:O	4:WG:437:VAL:N	2.42	0.42
3:WH:6:HIS:HB3	3:WH:21:TRP:HZ2	1.83	0.42
3:WH:249:ASP:O	3:WH:252:LYS:HB3	2.19	0.42
4:WI:346:TRP:HZ3	3:WJ:390:ARG:HB3	1.85	0.42
4:WK:272:TYR:CE1	4:WK:374:ALA:HB1	2.55	0.42
3:WL:267:MET:HA	3:WL:268:PRO:HD3	1.91	0.42
33:X:470:GLY:O	33:X:473:GLN:NE2	2.52	0.42
34:XB:81:LYS:HB2	34:XB:129:TRP:CE2	2.54	0.42
34:XD:4:ASN:OD1	34:XD:5:THR:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:XD:59:ILE:CG2	34:XD:156:ILE:HB	2.49	0.42
34:XD:73:LEU:HB3	34:XD:168:SER:O	2.19	0.42
34:XE:24:ILE:HA	34:XE:63:ALA:HB2	2.02	0.42
34:XE:88:THR:HG21	34:XE:104:ARG:HH21	1.84	0.42
34:XF:177:LEU:HD22	34:XF:181:PHE:CD2	2.55	0.42
35:XH:93:LEU:HG	35:XH:97:PHE:CE2	2.54	0.42
35:XL:204:ASN:O	35:XL:208:LEU:HG	2.19	0.42
35:XM:85:GLU:OE1	35:XM:85:GLU:N	2.44	0.42
36:Y:216:ILE:HA	36:Y:219:HIS:CD2	2.55	0.42
37:YA:4:VAL:HG11	37:YA:83:PHE:CE2	2.55	0.42
37:YC:41:ARG:HH12	37:YC:44:SER:H	1.67	0.42
37:YC:128:ASP:HA	37:YC:131:ARG:HD3	2.02	0.42
37:YD:25:PHE:HD1	37:YD:65:ILE:HG22	1.85	0.42
37:YD:116:LYS:NZ	37:YD:117:TYR:O	2.53	0.42
37:YG:57:CYS:HB3	37:YG:63:ARG:HD3	2.02	0.42
37:YG:110:LEU:HA	37:YG:113:LEU:HD23	2.02	0.42
37:YG:117:TYR:CD1	37:YG:118:PRO:HA	2.54	0.42
37:YJ:97:LEU:HG	37:YJ:101:LYS:HE2	2.01	0.42
37:YK:141:ILE:O	37:YK:145:LEU:HG	2.20	0.42
37:YL:46:ILE:HB	37:YL:106:GLN:OE1	2.20	0.42
37:YM:136:GLY:O	37:YM:140:LEU:N	2.53	0.42
37:YQ:83:PHE:CE2	37:YQ:148:MET:HG2	2.55	0.42
37:YR:14:LYS:O	37:YR:18:PHE:N	2.50	0.42
37:YS:125:LEU:HD13	37:YS:134:TYR:HB3	2.01	0.42
37:YT:27:ALA:O	37:YT:31:HIS:ND1	2.53	0.42
37:YT:82:HIS:CD2	37:YT:86:LEU:HD11	2.54	0.42
37:YT:115:ALA:HB2	37:YT:143:ILE:HD11	2.02	0.42
37:YW:61:THR:O	37:YW:65:ILE:HG12	2.19	0.42
37:YW:155:SER:HA	37:YW:158:LEU:HG	2.00	0.42
36:Z:355:LYS:HA	36:Z:358:LYS:HD2	2.01	0.42
1:A:56:PHE:HE1	18:J:73:LYS:HG2	1.84	0.42
1:A:131:ALA:HB1	1:B:462:TYR:HE2	1.84	0.42
1:A:161:ILE:HG13	1:A:162:MET:N	2.35	0.42
2:A2:152:ARG:O	2:A2:156:GLU:OE1	2.38	0.42
2:A2:183:THR:O	2:A2:187:VAL:HG23	2.19	0.42
2:A2:269:LYS:O	2:A2:272:LYS:HG2	2.18	0.42
2:A2:323:ARG:HB3	2:A2:327:GLU:HB3	2.01	0.42
4:AC:265:ILE:HD12	4:AC:432:TYR:CE1	2.55	0.42
4:AC:398:MET:O	4:AC:402:ARG:N	2.52	0.42
3:AD:16:ILE:HD13	3:AD:226:ASN:HD22	1.85	0.42
3:AD:318:ARG:HD3	3:AD:358:PRO:HG3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:320:ARG:HG2	4:AE:358:GLN:O	2.19	0.42
3:AF:249:ASP:O	3:AF:253:LEU:HG	2.19	0.42
3:AH:372:THR:HB	3:AH:375:GLN:HE22	1.84	0.42
3:AJ:8:GLN:HB3	3:AJ:65:LEU:HA	2.02	0.42
4:AK:206:ASN:OD1	4:AK:206:ASN:N	2.52	0.42
4:AK:386:GLU:O	4:AK:390:ARG:N	2.46	0.42
5:B2:235:ALA:O	5:B2:239:LEU:HD23	2.19	0.42
5:B4:255:ASP:O	5:B4:259:VAL:HG23	2.20	0.42
5:B4:409:ASP:C	5:B4:411:PHE:H	2.27	0.42
5:B6:63:ARG:O	5:B6:66:GLU:HG3	2.19	0.42
5:B6:124:ARG:O	5:B6:128:VAL:HG23	2.20	0.42
5:B6:370:LEU:O	5:B6:374:GLN:HG3	2.20	0.42
5:B7:100:GLU:OE2	8:D8:161:ARG:HG3	2.20	0.42
5:B7:132:PRO:HD2	5:B7:268:ARG:NH1	2.30	0.42
4:BC:43:GLY:HA2	14:G4:216:PHE:O	2.20	0.42
4:BC:46:ASP:HA	4:BC:50:ASN:HB3	2.02	0.42
4:BC:333:ALA:O	4:BC:337:THR:HG23	2.20	0.42
3:BD:1:MET:SD	3:BD:2:ARG:N	2.93	0.42
3:BD:12:CYS:O	3:BD:16:ILE:HG12	2.18	0.42
4:BE:423:GLU:O	4:BE:427:ALA:N	2.44	0.42
3:BF:5:VAL:HB	3:BF:133:PHE:CE1	2.55	0.42
3:BF:143:THR:HG22	3:BF:147:MET:CE	2.50	0.42
3:BF:182:PRO:HB2	3:BF:388:MET:HE1	2.02	0.42
3:BF:267:MET:HE1	3:BF:371:SER:H	1.84	0.42
3:BH:152:ILE:HD12	3:BH:195:ASN:HB2	2.01	0.42
3:BH:292:GLN:HA	3:BH:295:ASP:OD2	2.19	0.42
4:BI:143:GLY:O	4:BI:147:SER:OG	2.25	0.42
4:BI:301:GLN:OE1	4:BI:301:GLN:N	2.52	0.42
3:BJ:41:ASP:H	15:H5:6:LYS:NZ	2.17	0.42
4:BK:246:GLY:HA3	4:BK:355:ILE:O	2.18	0.42
4:BK:392:ASP:O	4:BK:396:ASP:N	2.42	0.42
3:BL:292:GLN:HA	3:BL:295:ASP:OD2	2.20	0.42
6:C:29:ILE:HG13	6:C:44:GLU:HG3	2.02	0.42
7:C1:293:THR:HG21	7:C2:413:ARG:N	2.35	0.42
7:C2:343:VAL:HG12	7:C2:347:PHE:HE2	1.85	0.42
7:C3:246:SER:HB3	11:Fl:231:LYS:HE3	2.02	0.42
7:C4:378:THR:O	7:C4:381:SER:OG	2.30	0.42
7:C5:384:LYS:HA	7:C5:387:LYS:HD3	2.01	0.42
7:C8:145:ASN:HB2	7:C9:415:MET:CE	2.50	0.42
3:CB:249:ASP:O	3:CB:253:LEU:HG	2.19	0.42
3:CD:81:PHE:CD2	3:CD:84:ILE:HD13	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CD:189:VAL:HA	3:CD:192:LEU:HB2	2.01	0.42
3:CF:73:MET:HA	3:CF:76:VAL:HG22	2.01	0.42
4:CG:87:PHE:HB3	4:CG:92:LEU:CD2	2.48	0.42
3:CH:406:MET:O	3:CH:409:THR:OG1	2.22	0.42
4:CI:185:TYR:O	4:CI:189:LEU:HG	2.20	0.42
4:CI:414:GLU:HG2	4:CI:417:GLU:OE1	2.19	0.42
3:CJ:374:ILE:HG22	3:CJ:378:PHE:CE2	2.54	0.42
4:CK:260:VAL:HG13	3:CL:397:TRP:CH2	2.54	0.42
3:CL:211:CYS:HA	3:CL:215:LEU:HD12	2.02	0.42
7:Ca:385:ALA:O	7:Ca:389:LYS:HG2	2.20	0.42
7:Ca:406:ARG:HA	7:Ca:407:PRO:HD3	1.91	0.42
7:Cb:396:ALA:O	7:Cb:399:ARG:HB2	2.19	0.42
7:Cb:410:GLU:OE1	7:Cb:410:GLU:N	2.46	0.42
7:Cd:319:ALA:HB1	7:Cd:322:ARG:HH21	1.83	0.42
8:D2:263:ASP:HB3	8:D2:267:ARG:HH12	1.83	0.42
8:D4:311:LEU:CB	8:D4:423:LEU:HD21	2.49	0.42
8:D4:357:LEU:HD12	8:D4:377:LEU:HD22	2.00	0.42
8:D6:343:ILE:HD11	8:D6:395:LEU:HD11	2.01	0.42
8:D7:83:GLN:O	8:D7:87:GLU:OE1	2.37	0.42
8:D7:382:GLU:OE1	8:D7:386:MET:HE1	2.19	0.42
4:DA:215:ARG:HH12	4:DA:299:ALA:C	2.25	0.42
3:DB:183:TYR:N	3:DB:388:MET:HE1	2.35	0.42
3:DB:215:LEU:HD11	3:DB:228:LEU:HD11	2.02	0.42
3:DD:15:GLN:HG3	3:DD:222:TYR:CE2	2.54	0.42
3:DD:152:ILE:O	3:DD:156:ARG:HG2	2.19	0.42
4:DE:332:ILE:O	4:DE:336:LYS:HG3	2.20	0.42
3:DF:214:THR:HG21	3:DF:273:LEU:HB3	2.02	0.42
3:DF:284:LEU:HD12	3:DF:363:MET:HG2	2.01	0.42
3:DH:12:CYS:O	3:DH:16:ILE:HG12	2.20	0.42
3:DH:118:ASP:OD1	3:DH:121:ARG:NH1	2.53	0.42
4:DI:272:TYR:CE1	4:DI:374:ALA:HB1	2.54	0.42
4:DI:319:TYR:N	4:DI:354:GLY:O	2.53	0.42
3:DJ:12:CYS:HB3	39:DJ:501:GTP:H5'	2.01	0.42
3:DJ:40:SER:HB3	3:DJ:42:LEU:HD23	2.01	0.42
4:DK:116:ASP:OD1	4:DK:116:ASP:N	2.49	0.42
4:DK:331:ALA:O	4:DK:335:ILE:HG12	2.19	0.42
3:DL:271:ALA:HA	3:DL:292:GLN:HE22	1.83	0.42
3:DL:329:GLN:O	3:DL:333:VAL:HG22	2.19	0.42
4:EA:3:GLU:OE2	4:EA:130:THR:N	2.42	0.42
4:EA:20:CYS:HB3	4:EA:24:TYR:CE2	2.54	0.42
3:EB:78:SER:HB2	14:G4:480:PHE:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ED:249:ASP:O	3:ED:252:LYS:HB3	2.20	0.42
4:EE:12:ALA:O	39:EE:501:GTP:N1	2.53	0.42
4:EE:263:PRO:O	4:EE:264:ARG:HB2	2.20	0.42
3:EH:152:ILE:O	3:EH:156:ARG:HG2	2.20	0.42
4:EI:256:GLN:HE22	3:EJ:397:TRP:HE1	1.67	0.42
4:EI:319:TYR:N	4:EI:354:GLY:O	2.53	0.42
3:EJ:305:PRO:HA	3:EJ:373:ALA:HB2	2.00	0.42
3:EL:274:THR:HG21	3:EL:279:GLN:HG3	2.02	0.42
11:F1:217:ARG:O	11:F1:221:LEU:HG	2.19	0.42
11:F3:94:ASP:HA	11:F3:97:ARG:NE	2.35	0.42
11:F3:218:GLU:OE2	11:F3:339:THR:OG1	2.34	0.42
11:F7:292:ILE:HG22	11:F7:294:GLU:H	1.85	0.42
3:FD:322:SER:HB3	3:FD:325:GLU:OE1	2.20	0.42
4:FE:224:TYR:HA	4:FE:227:LEU:HB2	2.01	0.42
4:FE:426:ALA:C	4:FE:430:LYS:HZ2	2.27	0.42
3:FF:371:SER:OG	3:FF:372:THR:N	2.53	0.42
3:FH:224:ASP:O	3:FH:228:LEU:HG	2.20	0.42
3:FH:383:GLU:HA	3:FH:386:THR:HG1	1.84	0.42
3:FJ:186:THR:HG21	3:FJ:385:PHE:CD2	2.54	0.42
3:FJ:229:VAL:O	3:FJ:233:MET:HE3	2.19	0.42
3:FJ:313:VAL:HG23	3:FJ:349:VAL:HA	2.02	0.42
4:FK:167:LEU:HB3	4:FK:169:PHE:CZ	2.55	0.42
4:FK:311:LYS:HE3	4:FK:344:VAL:HG12	2.02	0.42
4:FK:397:LEU:O	4:FK:401:LYS:HG2	2.19	0.42
3:FL:31:ASP:OD2	3:FL:35:THR:OG1	2.37	0.42
11:Fa:329:SER:O	11:Fa:332:MET:HB3	2.19	0.42
11:Fb:93:ARG:NH1	11:Fb:97:ARG:HH11	2.18	0.42
11:Ff:90:TYR:CE2	11:Fg:207:VAL:HB	2.54	0.42
11:Fh:431:LYS:O	11:Fh:435:ARG:HD3	2.19	0.42
11:Fj:440:THR:O	11:Fj:444:LEU:HD13	2.20	0.42
11:Fk:439:ASP:O	11:Fk:443:LEU:HG	2.20	0.42
11:Fm:163:LEU:HD23	11:Fm:163:LEU:HA	1.74	0.42
11:Fm:194:CYS:SG	11:Fm:468:LYS:HE3	2.60	0.42
12:G:100:LYS:O	12:G:103:GLU:HG3	2.20	0.42
13:G2:267:TYR:HB3	13:G2:269:MET:SD	2.60	0.42
13:G3:253:ASP:OD1	13:G3:254:SER:N	2.53	0.42
13:G3:420:LEU:HD23	13:G3:442:TYR:HD2	1.85	0.42
14:G4:85:LEU:HB2	14:G4:165:PHE:CE1	2.55	0.42
14:G4:85:LEU:HG	14:G4:100:ARG:NH2	2.35	0.42
14:G4:502:ILE:HD12	14:G4:502:ILE:H	1.84	0.42
14:G4:610:GLU:OE1	14:G4:610:GLU:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G4:681:PHE:CE2	14:G4:688:ILE:HB	2.54	0.42
14:G5:323:TYR:HB3	14:G5:325:LEU:HD23	2.02	0.42
14:G5:416:LYS:NZ	14:G5:420:LYS:HB2	2.34	0.42
14:G5:544:ASN:HB3	14:G5:547:LEU:HG	2.02	0.42
14:G6:76:LYS:O	14:G6:76:LYS:HD3	2.20	0.42
14:G6:462:THR:HB	14:G6:483:ARG:C	2.45	0.42
14:G6:582:PHE:CZ	14:G6:586:LEU:HD11	2.54	0.42
14:G6:635:PHE:O	14:G6:639:ILE:N	2.47	0.42
4:GA:200:CYS:HA	4:GA:266:HIS:HB2	2.01	0.42
4:GA:349:THR:HG23	3:GB:179:VAL:HG12	2.01	0.42
3:GB:167:PHE:HD1	3:GB:200:TYR:CD2	2.34	0.42
3:GB:174:LYS:HG3	3:GB:175:VAL:HG13	2.02	0.42
4:GC:10:GLY:O	4:GC:14:VAL:HG13	2.20	0.42
4:GC:272:TYR:CE1	4:GC:374:ALA:HB1	2.54	0.42
4:GC:306:ASP:HB3	4:GC:309:HIS:CE1	2.54	0.42
4:GC:431:ASP:HA	4:GC:434:GLU:OE1	2.20	0.42
4:GE:88:HIS:HE1	4:GE:90:GLU:CD	2.28	0.42
4:GE:188:ILE:HD13	4:GE:395:PHE:CE2	2.55	0.42
4:GE:397:LEU:O	4:GE:401:LYS:HG2	2.19	0.42
3:GF:309:ARG:O	3:GF:371:SER:OG	2.28	0.42
3:GH:6:HIS:HE2	3:GH:136:THR:HG23	1.84	0.42
3:GH:246:LEU:HD22	3:GH:354:CYS:HA	2.01	0.42
3:GH:357:PRO:HB3	3:GH:362:LYS:HA	2.00	0.42
3:GJ:31:ASP:OD1	3:GJ:31:ASP:N	2.51	0.42
3:GJ:323:MET:HE2	3:GJ:323:MET:HB2	1.94	0.42
4:GK:115:VAL:O	4:GK:119:LEU:N	2.30	0.42
4:GK:256:GLN:HE22	3:GL:397:TRP:HE1	1.68	0.42
3:GL:217:LEU:HD11	3:GL:220:PRO:HB3	2.02	0.42
3:GL:218:THR:OG1	3:GL:219:THR:N	2.52	0.42
15:H2:43:LEU:O	15:H2:46:PRO:HD3	2.19	0.42
15:H6:311:GLU:O	15:H6:316:SER:HA	2.20	0.42
4:HA:208:ALA:H	4:HA:304:LYS:NZ	2.17	0.42
4:HC:386:GLU:HA	4:HC:389:ALA:HB3	2.02	0.42
4:HC:398:MET:O	4:HC:402:ARG:N	2.50	0.42
4:HE:54:SER:N	4:HE:62:VAL:O	2.52	0.42
4:HE:389:ALA:HA	4:HE:392:ASP:OD2	2.19	0.42
3:HF:16:ILE:HD13	3:HF:226:ASN:HD22	1.83	0.42
3:HF:50:TYR:HE2	3:HF:241:ARG:HH21	1.67	0.42
3:HF:336:LYS:HE2	23:M:131:ASN:OD1	2.20	0.42
4:HG:398:MET:O	4:HG:402:ARG:N	2.50	0.42
3:HH:316:VAL:HG22	3:HH:352:ALA:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HH:350:LYS:HE3	4:HI:180:ALA:HA	2.01	0.42
4:HI:424:ASP:O	4:HI:428:LEU:HD23	2.19	0.42
4:HK:287:SER:N	4:HK:290:GLU:OE2	2.52	0.42
3:HL:174:LYS:HG2	3:HL:205:GLU:OE2	2.20	0.42
3:IB:82:GLY:HA2	3:IB:85:PHE:CD2	2.54	0.42
3:IB:267:MET:HE1	3:IB:299:MET:HG3	2.01	0.42
4:IC:246:GLY:HA3	4:IC:356:ASN:HA	2.01	0.42
3:ID:16:ILE:O	3:ID:20:PHE:N	2.37	0.42
4:IE:142:GLY:HA2	4:IE:183:GLU:OE2	2.19	0.42
3:IF:49:VAL:HG13	3:IF:50:TYR:CE1	2.55	0.42
4:IG:160:ASP:OD1	4:IG:161:TYR:N	2.52	0.42
4:IG:224:TYR:HE2	39:IG:501:GTP:C6	2.38	0.42
4:II:419:SER:HA	4:II:422:ARG:NE	2.29	0.42
4:IK:3:GLU:CD	4:IK:132:LEU:H	2.28	0.42
4:IK:287:SER:N	4:IK:290:GLU:OE2	2.52	0.42
4:IM:406:HIS:HA	4:IM:409:VAL:HG22	2.02	0.42
4:JA:9:VAL:HA	4:JA:68:VAL:HG23	2.01	0.42
4:JA:104:ALA:O	4:JA:108:TYR:N	2.50	0.42
4:JA:207:GLU:HB2	4:JA:304:LYS:HZ1	1.84	0.42
4:JA:286:LEU:HD11	4:JA:373:ARG:H	1.83	0.42
4:JA:287:SER:N	4:JA:290:GLU:OE2	2.52	0.42
3:JB:206:ALA:O	3:JB:210:ILE:HG12	2.19	0.42
4:JC:52:PHE:HZ	4:JC:239:THR:HB	1.85	0.42
3:JD:182:PRO:HB3	3:JD:381:ILE:HD11	2.01	0.42
4:JE:9:VAL:HA	4:JE:68:VAL:HG23	2.01	0.42
3:JF:137:HIS:O	3:JF:168:SER:HA	2.19	0.42
4:JG:285:GLN:HE22	4:JG:287:SER:HB3	1.83	0.42
3:JH:69:GLU:CD	3:JH:71:GLY:H	2.28	0.42
3:JH:269:GLY:O	3:JH:367:PHE:N	2.39	0.42
4:JK:254:GLU:OE1	4:JK:254:GLU:N	2.47	0.42
3:JL:65:LEU:HD21	3:JL:73:MET:HG3	2.02	0.42
3:JL:385:PHE:HZ	3:JL:408:PHE:HB3	1.83	0.42
21:K2:388:GLU:C	21:K2:391:GLU:H	2.28	0.42
21:K3:155:LEU:O	21:K3:158:ARG:HG2	2.20	0.42
21:K4:342:GLU:HA	21:K4:345:GLU:OE2	2.20	0.42
21:K5:31:LYS:HD3	21:K5:34:LEU:HD21	2.02	0.42
4:KA:2:ARG:NE	4:KA:242:LEU:HD23	2.35	0.42
3:KB:12:CYS:HB3	39:KB:501:GTP:O4'	2.20	0.42
3:KB:103:LYS:NZ	3:KB:401:GLU:HG2	2.33	0.42
3:KB:235:GLY:O	3:KB:238:THR:OG1	2.23	0.42
3:KB:253:LEU:O	3:KB:257:MET:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KB:261:PRO:O	3:KB:264:HIS:NE2	2.53	0.42
3:KD:20:PHE:CD1	3:KD:233:MET:HG3	2.55	0.42
4:KE:216:ASN:OD1	4:KE:217:LEU:N	2.52	0.42
4:KE:272:TYR:HE1	4:KE:374:ALA:HB1	1.85	0.42
4:KG:21:TRP:HD1	4:KG:53:PHE:CE1	2.37	0.42
4:KG:22:GLU:HG2	4:KG:83:TYR:CE2	2.54	0.42
4:KG:251:ASP:HB3	4:KG:254:GLU:OE1	2.20	0.42
3:KH:101:TRP:CE3	3:KH:187:LEU:HD13	2.54	0.42
3:KH:180:VAL:HG22	3:KH:183:TYR:HB2	2.01	0.42
3:KH:261:PRO:O	3:KH:264:HIS:NE2	2.53	0.42
4:KI:331:ALA:O	4:KI:335:ILE:HG12	2.19	0.42
3:KJ:217:LEU:O	3:KJ:217:LEU:HD23	2.20	0.42
4:KK:5:ILE:HB	4:KK:135:PHE:HD1	1.83	0.42
3:KL:311:LEU:HB2	3:KL:370:ASN:O	2.19	0.42
22:L2:129:ARG:NH2	4:LG:93:ILE:HD13	2.34	0.42
22:L3:157:TYR:HA	22:L3:160:LYS:HG3	2.00	0.42
4:LA:188:ILE:HG12	4:LA:421:ALA:HB1	2.01	0.42
4:LA:286:LEU:HD23	4:LA:286:LEU:H	1.84	0.42
3:LB:233:MET:HA	3:LB:233:MET:HE2	2.02	0.42
4:LC:88:HIS:CE1	4:MC:280:LYS:HZ3	2.38	0.42
4:LE:352:LYS:NZ	3:LF:178:THR:HA	2.35	0.42
3:LF:2:ARG:HA	3:LF:129:CYS:O	2.19	0.42
4:LG:21:TRP:HD1	4:LG:53:PHE:CZ	2.38	0.42
4:LG:202:PHE:CD1	4:LG:268:PRO:HD2	2.54	0.42
3:LH:28:HIS:ND1	3:LH:43:GLN:HB2	2.35	0.42
3:LH:188:SER:O	3:LH:192:LEU:HG	2.20	0.42
3:LH:266:PHE:HB3	3:LH:368:ILE:HD11	2.02	0.42
4:LI:280:LYS:HA	4:LI:280:LYS:HD2	1.69	0.42
3:LJ:8:GLN:O	3:LJ:66:VAL:HG12	2.19	0.42
4:LK:187:SER:O	4:LK:190:THR:OG1	2.30	0.42
4:LK:325:PRO:O	4:LK:329:ASN:ND2	2.53	0.42
3:LL:357:PRO:HB3	3:LL:362:LYS:O	2.19	0.42
24:M3:52:ILE:HD11	24:M3:89:PHE:CD1	2.54	0.42
4:MC:229:ARG:NH1	4:MC:233:GLN:HB2	2.34	0.42
3:MD:318:ARG:O	3:MD:364:SER:OG	2.37	0.42
4:ME:208:ALA:N	4:ME:304:LYS:HZ1	2.11	0.42
3:MF:52:ASN:CG	3:MF:62:ARG:HD3	2.45	0.42
3:MF:391:ARG:C	3:MF:392:LYS:HG3	2.44	0.42
4:MG:145:THR:HG1	39:MG:501:GTP:PB	2.41	0.42
4:MG:282:TYR:CD1	27:P:221:VAL:HG21	2.55	0.42
3:MH:156:ARG:HH11	3:MH:164:MET:HE3	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MI:11:GLN:O	4:MI:14:VAL:HG22	2.20	0.42
4:MI:103:TYR:HB2	4:MI:186:ASN:HB2	2.02	0.42
4:MI:265:ILE:HA	4:MI:267:PHE:CE2	2.55	0.42
3:MJ:41:ASP:N	3:MJ:41:ASP:OD1	2.50	0.42
3:MJ:152:ILE:HD12	3:MJ:195:ASN:HB2	2.01	0.42
3:MJ:261:PRO:O	3:MJ:264:HIS:NE2	2.53	0.42
3:ML:47:ILE:HD11	3:ML:51:TYR:CD2	2.54	0.42
3:ML:324:LYS:HG3	4:MM:221:ARG:NH1	2.35	0.42
3:ML:386:THR:O	3:ML:390:ARG:HB2	2.20	0.42
4:MM:46:ASP:HA	4:MM:50:ASN:HB3	2.01	0.42
4:NA:359:PRO:HA	4:NA:360:PRO:HD3	1.95	0.42
3:NB:80:PRO:O	3:NB:83:GLN:NE2	2.47	0.42
3:NB:322:SER:OG	3:NB:323:MET:SD	2.77	0.42
4:NC:246:GLY:HA2	4:NC:357:TYR:HD2	1.85	0.42
4:NC:359:PRO:HA	4:NC:360:PRO:HD3	1.95	0.42
3:ND:58:LYS:HE2	3:OD:281:TYR:HE1	1.84	0.42
3:ND:77:ARG:HA	3:ND:77:ARG:HD2	1.89	0.42
3:ND:386:THR:O	3:ND:390:ARG:N	2.52	0.42
3:NH:184:ASN:ND2	3:NH:398:TYR:OH	2.52	0.42
4:NI:46:ASP:HA	4:NI:50:ASN:HB3	2.00	0.42
3:NJ:65:LEU:HD21	3:NJ:73:MET:HG2	2.02	0.42
3:NJ:77:ARG:HD3	3:NJ:90:PHE:HE2	1.84	0.42
4:NK:69:ASP:OD1	4:NK:70:LEU:N	2.52	0.42
4:NK:202:PHE:CD1	4:NK:268:PRO:HD2	2.55	0.42
4:OA:47:ASP:HB3	4:OA:49:PHE:CE2	2.55	0.42
4:OA:118:VAL:HA	4:OA:121:ARG:HG2	2.00	0.42
4:OA:272:TYR:CZ	4:OA:274:PRO:HG2	2.54	0.42
3:OB:42:LEU:HD12	3:OB:243:PRO:HD2	2.01	0.42
3:OB:406:MET:O	3:OB:409:THR:OG1	2.28	0.42
4:OC:280:LYS:HA	4:OC:280:LYS:HD2	1.76	0.42
3:OD:12:CYS:HA	39:OD:501:GTP:HN22	1.84	0.42
3:OD:32:PRO:HA	3:OD:81:PHE:CE1	2.55	0.42
4:OE:3:GLU:CD	4:OE:131:GLY:H	2.28	0.42
4:OE:6:SER:HB3	4:OE:65:ALA:HB2	2.02	0.42
4:OE:329:ASN:HA	4:OE:332:ILE:HG12	2.02	0.42
3:OH:81:PHE:O	3:OH:84:ILE:HG22	2.20	0.42
3:OH:87:PRO:HA	3:OH:90:PHE:CD2	2.55	0.42
4:OK:70:LEU:HB3	4:OK:97:GLU:O	2.20	0.42
29:P1:330:CYS:HA	29:P1:359:TRP:HH2	1.85	0.42
29:P2:167:SER:HB3	29:P2:170:ARG:O	2.20	0.42
29:P3:342:PHE:CG	29:P3:384:ARG:HG2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:PA:333:ALA:HA	4:PA:336:LYS:HD2	2.02	0.42
4:PA:343:PHE:HD2	4:PA:347:CYS:SG	2.42	0.42
4:PA:405:VAL:O	4:PA:409:VAL:HG22	2.19	0.42
4:PC:175:PRO:O	4:PC:390:ARG:HD3	2.19	0.42
4:PC:229:ARG:HE	4:PC:368:LEU:HD22	1.84	0.42
3:PD:64:VAL:HG21	3:PD:120:VAL:HG12	2.01	0.42
4:PE:269:LEU:O	4:PE:378:LEU:HA	2.19	0.42
3:PF:344:TRP:CH2	4:PG:401:LYS:HB2	2.54	0.42
4:PG:19:ALA:O	4:PG:23:LEU:HG	2.19	0.42
3:PH:66:VAL:HA	3:PH:91:VAL:O	2.20	0.42
3:PH:150:LEU:O	3:PH:153:SER:OG	2.28	0.42
3:PH:269:GLY:HA3	3:PH:367:PHE:HB3	2.01	0.42
4:PI:105:ARG:HG2	4:PI:109:THR:HG21	2.01	0.42
4:PI:397:LEU:O	4:PI:401:LYS:HE2	2.20	0.42
4:PI:417:GLU:HA	4:PI:420:GLU:HG2	2.01	0.42
3:PJ:40:SER:HB2	3:PJ:43:GLN:CD	2.44	0.42
3:PJ:261:PRO:HD3	4:PK:406:HIS:CG	2.55	0.42
4:PK:99:ALA:HB2	4:PK:149:PHE:CE2	2.55	0.42
4:PK:282:TYR:CE2	37:YS:131:ARG:HG2	2.53	0.42
3:PL:375:GLN:HA	3:PL:378:PHE:CE1	2.55	0.42
4:PM:20:CYS:SG	4:PM:232:GLY:HA2	2.59	0.42
4:PM:189:LEU:HD11	4:PM:418:PHE:CZ	2.54	0.42
4:PM:317:MET:HB2	4:PM:375:VAL:HG21	2.02	0.42
30:Q1:1366:LEU:HG	30:Q1:1369:LYS:HE2	2.01	0.42
30:Q1:1452:ARG:C	30:Q1:1452:ARG:HD3	2.45	0.42
3:QB:6:HIS:HB3	3:QB:21:TRP:HZ2	1.85	0.42
3:QB:11:GLN:HG3	39:QB:501:GTP:PA	2.60	0.42
3:QB:415:MET:O	3:QB:419:VAL:HG23	2.20	0.42
4:QC:278:ALA:O	4:QC:370:LYS:NZ	2.53	0.42
4:QE:32:PRO:O	4:QE:85:GLN:NE2	2.53	0.42
4:QE:224:TYR:HA	4:QE:227:LEU:HB2	2.02	0.42
3:QF:66:VAL:HA	3:QF:91:VAL:O	2.19	0.42
4:QG:189:LEU:HA	4:QG:192:HIS:HD1	1.84	0.42
4:QG:371:VAL:HG11	4:QG:374:ALA:HB2	2.02	0.42
4:QI:167:LEU:HB3	4:QI:169:PHE:CE1	2.55	0.42
4:QK:175:PRO:O	4:QK:390:ARG:HD3	2.19	0.42
3:QL:150:LEU:C	3:QL:154:LYS:HZ3	2.27	0.42
31:R1:138:ASN:O	31:R1:142:ARG:HG3	2.20	0.42
3:RB:81:PHE:O	3:RB:84:ILE:HG22	2.18	0.42
3:RB:183:TYR:CD1	3:RB:388:MET:HE3	2.54	0.42
4:RC:349:THR:HG23	3:RD:179:VAL:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:RE:35:GLN:HG2	4:RE:59:GLY:O	2.20	0.42
3:RF:91:VAL:HG11	3:RF:116:VAL:HG12	2.02	0.42
3:RF:292:GLN:HA	3:RF:295:ASP:OD2	2.19	0.42
3:RF:318:ARG:HG3	3:RF:354:CYS:SG	2.60	0.42
4:RG:116:ASP:OD1	4:RG:116:ASP:N	2.51	0.42
4:RG:202:PHE:CD1	4:RG:268:PRO:HD2	2.54	0.42
4:RG:216:ASN:OD1	4:RG:217:LEU:N	2.53	0.42
3:RH:32:PRO:C	3:RH:83:GLN:HE21	2.27	0.42
3:RH:318:ARG:HB3	3:RH:364:SER:OG	2.20	0.42
4:RI:285:GLN:NE2	4:RI:286:LEU:O	2.53	0.42
3:RJ:319:GLY:HA3	3:RJ:363:MET:HA	2.02	0.42
4:RK:66:VAL:HG12	4:RK:68:VAL:HG13	2.01	0.42
4:RK:186:ASN:OD1	4:RK:187:SER:N	2.53	0.42
4:RK:188:ILE:HG12	4:RK:425:LEU:HD11	2.01	0.42
3:RL:47:ILE:HG12	3:RL:59:TYR:CE2	2.55	0.42
3:RL:230:SER:HA	3:RL:233:MET:SD	2.59	0.42
3:SB:12:CYS:HA	39:SB:501:GTP:N3	2.35	0.42
3:SB:255:VAL:HG12	4:SC:407:TRP:CE2	2.55	0.42
4:SC:100:ALA:C	4:SC:102:ASN:H	2.28	0.42
4:SC:140:SER:HB2	4:SC:171:ILE:HG22	2.02	0.42
4:SC:166:LYS:N	4:SC:199:ASP:OD2	2.52	0.42
4:SE:254:GLU:OE1	4:SE:254:GLU:N	2.43	0.42
4:SE:263:PRO:O	4:SE:264:ARG:HB2	2.20	0.42
4:SG:370:LYS:H	4:SG:370:LYS:HG2	1.67	0.42
3:SH:30:ILE:HG13	3:SH:36:TYR:HD1	1.85	0.42
3:SH:152:ILE:O	3:SH:156:ARG:HG2	2.19	0.42
4:SI:246:GLY:HA2	4:SI:357:TYR:HD2	1.84	0.42
3:SJ:255:VAL:HG12	4:SK:407:TRP:CD2	2.53	0.42
3:SJ:306:ARG:O	3:SJ:306:ARG:NE	2.46	0.42
4:SK:160:ASP:OD1	4:SK:161:TYR:N	2.53	0.42
4:SK:285:GLN:HE22	4:SK:287:SER:HB3	1.85	0.42
4:SK:316:CYS:O	4:SK:378:LEU:N	2.38	0.42
4:SM:206:ASN:OD1	4:SM:206:ASN:N	2.53	0.42
4:SM:345:ASP:N	4:SM:345:ASP:OD1	2.52	0.42
4:SM:393:HIS:HA	4:SM:396:ASP:CG	2.45	0.42
32:T:282:ILE:O	32:T:282:ILE:HG13	2.19	0.42
3:TB:12:CYS:HA	39:TB:501:GTP:HN22	1.84	0.42
3:TB:197:ASP:OD1	3:TB:198:GLU:N	2.53	0.42
3:TB:271:ALA:HB2	3:TB:365:ALA:H	1.84	0.42
3:TB:328:GLU:O	3:TB:332:ASN:N	2.43	0.42
4:TC:88:HIS:CE1	4:UA:280:LYS:HZ3	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:TC:151:SER:O	4:TC:155:GLU:HG2	2.19	0.42
3:TD:12:CYS:SG	3:TD:13:GLY:N	2.93	0.42
3:TD:149:THR:HG21	3:TD:188:SER:HA	2.02	0.42
4:TE:172:TYR:HD1	4:TE:203:MET:SD	2.42	0.42
3:TF:6:HIS:HB2	3:TF:134:GLN:NE2	2.35	0.42
3:TF:277:GLY:O	3:TF:280:GLN:NE2	2.52	0.42
3:TH:331:LEU:HD11	4:TI:176:GLN:OE1	2.20	0.42
3:TJ:325:GLU:O	3:TJ:329:GLN:HG2	2.19	0.42
4:TK:6:SER:HB3	4:TK:65:ALA:CB	2.50	0.42
4:TK:60:LYS:HE2	4:UI:282:TYR:OH	2.20	0.42
4:TK:76:ASP:OD1	4:TK:79:ARG:NH1	2.53	0.42
4:TK:203:MET:HE3	4:TK:267:PHE:CZ	2.55	0.42
33:U:207:ARG:O	33:U:210:GLN:NE2	2.53	0.42
4:UA:420:GLU:HA	4:UA:423:GLU:OE2	2.18	0.42
3:UB:304:ASP:O	3:UB:307:HIS:ND1	2.43	0.42
4:UC:245:ASP:OD1	4:UC:249:ASN:ND2	2.47	0.42
4:UC:260:VAL:O	3:UD:397:TRP:HH2	2.03	0.42
4:UC:318:LEU:O	4:UC:375:VAL:HA	2.20	0.42
3:UD:255:VAL:HA	4:UE:407:TRP:CE2	2.54	0.42
3:UD:282:ARG:HE	3:UD:288:GLU:CD	2.27	0.42
3:UF:28:HIS:ND1	3:UF:43:GLN:HB2	2.35	0.42
3:UF:324:LYS:HG3	4:UG:221:ARG:NH1	2.35	0.42
4:UG:16:ILE:CG2	39:UG:501:GTP:HN1	2.33	0.42
4:UG:71:GLU:OE1	4:UG:71:GLU:N	2.52	0.42
4:UG:348:PRO:HG2	3:UH:384:GLN:OE1	2.20	0.42
3:UH:262:ARG:HA	3:UH:262:ARG:NE	2.35	0.42
3:UH:300:MET:SD	3:UH:300:MET:N	2.92	0.42
3:UH:375:GLN:HA	3:UH:378:PHE:CE1	2.55	0.42
3:UJ:324:LYS:HG3	4:UK:221:ARG:NH1	2.34	0.42
4:UK:165:SER:C	4:UK:166:LYS:HD2	2.45	0.42
4:UK:178:SER:OG	4:UK:180:ALA:O	2.37	0.42
3:UL:199:THR:N	3:UL:264:HIS:O	2.52	0.42
4:VA:88:HIS:CE1	4:VA:90:GLU:HG2	2.55	0.42
3:VB:324:LYS:HD2	4:VC:221:ARG:HA	2.01	0.42
4:VC:252:LEU:HA	4:VC:255:PHE:CD2	2.55	0.42
4:VC:368:LEU:HD23	4:VC:368:LEU:H	1.85	0.42
3:VD:4:ILE:HB	3:VD:50:TYR:CE1	2.55	0.42
4:VE:196:GLU:HG2	4:VE:197:HIS:ND1	2.35	0.42
4:VE:256:GLN:CD	3:VF:397:TRP:HE1	2.28	0.42
3:VF:201:CYS:HB2	3:VF:267:MET:HE1	2.01	0.42
4:VG:166:LYS:O	4:VG:199:ASP:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:VI:66:VAL:HG12	4:VI:68:VAL:HG13	2.02	0.42
3:VJ:304:ASP:O	3:VJ:307:HIS:ND1	2.47	0.42
4:VK:286:LEU:HD11	4:VK:373:ARG:H	1.85	0.42
33:W:210:GLN:HA	33:W:213:GLU:HB3	2.02	0.42
4:WA:28:HIS:HB2	4:WA:30:ILE:HG12	2.01	0.42
4:WA:174:ALA:HB1	4:WA:207:GLU:OE2	2.19	0.42
4:WC:28:HIS:HB2	4:WC:30:ILE:HG12	2.02	0.42
4:WC:346:TRP:NE1	3:WD:391:ARG:HH11	2.15	0.42
4:WC:397:LEU:O	4:WC:401:LYS:HG2	2.20	0.42
3:WD:52:ASN:OD1	3:WD:62:ARG:NH1	2.52	0.42
3:WD:101:TRP:HB2	3:WD:184:ASN:HD22	1.84	0.42
4:WE:12:ALA:HB1	39:WE:501:GTP:C2	2.55	0.42
3:WF:40:SER:HB3	3:WF:42:LEU:HD23	2.01	0.42
3:WF:375:GLN:HA	3:WF:378:PHE:CE1	2.55	0.42
4:WG:145:THR:OG1	39:WG:501:GTP:O1B	2.35	0.42
4:WG:265:ILE:HD12	4:WG:432:TYR:CE1	2.55	0.42
4:WG:359:PRO:HA	4:WG:360:PRO:HD3	1.96	0.42
4:WI:429:GLU:O	4:WI:432:TYR:N	2.52	0.42
3:WJ:206:ALA:O	3:WJ:210:ILE:HG12	2.19	0.42
4:WK:9:VAL:HG13	4:WK:139:HIS:HB3	2.02	0.42
4:WK:42:ILE:HG12	4:WK:55:GLU:OE2	2.20	0.42
4:WK:207:GLU:HB2	4:WK:304:LYS:NZ	2.35	0.42
3:WL:11:GLN:HG3	39:WL:501:GTP:O5'	2.20	0.42
3:WL:47:ILE:HG12	3:WL:59:TYR:CD2	2.55	0.42
33:X:450:LEU:HD12	33:X:451:ARG:HE	1.85	0.42
33:X:485:ASN:O	33:X:488:LYS:HG3	2.19	0.42
34:XC:3:LYS:HD3	34:XC:3:LYS:O	2.20	0.42
34:XC:151:THR:O	34:XC:152:LEU:HD23	2.20	0.42
34:XD:84:LYS:HZ3	35:XJ:241:ASN:HB3	1.85	0.42
34:XF:93:VAL:HG12	34:XF:151:THR:HA	2.02	0.42
34:XF:103:PHE:CD1	34:XF:119:CYS:HB3	2.55	0.42
35:XH:224:ALA:O	35:XH:228:ILE:HG13	2.20	0.42
35:XI:97:PHE:CE2	35:XI:133:LEU:HD22	2.55	0.42
35:XK:133:LEU:O	35:XK:136:PRO:HD2	2.20	0.42
35:XL:207:ASP:HA	35:XL:210:GLN:HE21	1.84	0.42
35:XM:69:LEU:HA	35:XM:79:ALA:N	2.35	0.42
37:YD:43:ILE:HD11	37:YD:134:TYR:CE1	2.54	0.42
37:YE:128:ASP:HA	37:YE:131:ARG:HB2	2.02	0.42
37:YI:99:LYS:HE2	37:YI:147:PHE:HB3	2.00	0.42
37:YJ:117:TYR:CG	37:YJ:118:PRO:HA	2.55	0.42
37:YM:23:PHE:O	37:YM:27:ALA:N	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:YM:76:LEU:O	37:YM:80:CYS:N	2.52	0.42
37:YP:65:ILE:HD12	37:YP:65:ILE:HA	1.90	0.42
37:YQ:81:GLN:HA	37:YQ:84:GLU:HB2	2.01	0.42
37:YR:42:PRO:HA	37:YR:133:HIS:HB3	2.02	0.42
37:YR:117:TYR:CD1	37:YR:118:PRO:HA	2.55	0.42
37:YS:90:THR:N	37:YS:93:THR:OG1	2.52	0.42
37:YU:26:ILE:HD12	37:YU:134:TYR:CE1	2.55	0.42
37:YU:110:LEU:HD23	37:YU:140:LEU:HD13	2.00	0.42
37:YU:110:LEU:HD23	37:YU:140:LEU:HB2	2.02	0.42
37:YV:92:VAL:HG11	37:YV:154:HIS:CE1	2.55	0.42
36:Z:489:LYS:O	36:Z:493:GLU:HG2	2.20	0.42
2:A2:128:VAL:HG11	2:A3:11:PHE:O	2.20	0.42
2:A3:389:LEU:HD23	2:A3:389:LEU:HA	1.90	0.42
3:AB:217:LEU:O	3:AB:219:THR:N	2.52	0.42
3:AD:3:GLU:HB2	3:AD:62:ARG:NH2	2.34	0.42
3:AD:246:LEU:HB3	3:AD:353:VAL:O	2.19	0.42
4:AE:192:HIS:CE1	4:AE:193:THR:HG23	2.55	0.42
4:AE:401:LYS:HA	4:AE:402:ARG:HH11	1.84	0.42
3:AF:36:TYR:CZ	3:AF:38:GLY:HA2	2.54	0.42
3:AF:78:SER:OG	13:G1:150:LYS:HG2	2.19	0.42
3:AF:348:ASN:OD1	3:AF:348:ASN:N	2.53	0.42
4:AG:186:ASN:OD1	4:AG:187:SER:N	2.52	0.42
4:AG:319:TYR:HA	4:AG:374:ALA:O	2.20	0.42
4:AI:212:ILE:HG13	4:AI:215:ARG:NH2	2.35	0.42
3:AJ:113:VAL:HA	3:AJ:116:VAL:HG22	2.02	0.42
3:AJ:117:LEU:O	3:AJ:121:ARG:HG2	2.19	0.42
3:AJ:199:THR:O	3:AJ:266:PHE:N	2.42	0.42
3:AJ:217:LEU:O	3:AJ:219:THR:N	2.52	0.42
3:AJ:347:ASN:OD1	4:AK:394:LYS:NZ	2.52	0.42
3:AJ:375:GLN:H	3:AJ:375:GLN:CD	2.28	0.42
4:AM:104:ALA:HB1	4:AM:413:MET:HE3	2.01	0.42
5:B1:413:ARG:HH12	8:D5:400:GLN:CB	2.33	0.42
5:B3:171:GLN:O	5:B3:174:SER:OG	2.28	0.42
5:B3:216:GLN:OE1	5:B3:216:GLN:N	2.50	0.42
5:B4:196:SER:HB2	5:B4:199:ILE:CG2	2.50	0.42
5:B4:223:ARG:NH1	5:B4:226:LYS:HG2	2.34	0.42
5:B6:404:PHE:CE2	5:B6:405:VAL:HG12	2.55	0.42
5:B7:55:TRP:CE2	7:C2:115:HIS:CD2	3.07	0.42
5:B8:134:GLU:HA	5:B8:137:LEU:HD12	2.02	0.42
5:B8:304:LEU:C	5:B8:308:MET:HE3	2.44	0.42
5:B8:392:ASP:HB2	7:C7:337:TRP:CH2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B9:360:GLN:HG3	8:D7:236:THR:OG1	2.19	0.42
3:BB:31:ASP:OD2	3:BB:35:THR:OG1	2.36	0.42
3:BB:46:ARG:HH22	4:BC:73:THR:HG23	1.84	0.42
4:BE:88:HIS:CE1	4:CE:280:LYS:NZ	2.88	0.42
4:BE:285:GLN:NE2	4:BE:286:LEU:O	2.53	0.42
3:BH:12:CYS:SG	39:BH:501:GTP:H5'	2.60	0.42
4:BI:346:TRP:HA	3:BJ:390:ARG:NH2	2.33	0.42
4:BI:389:ALA:HA	4:BI:392:ASP:OD2	2.20	0.42
3:BJ:249:ASP:O	3:BJ:252:LYS:HB2	2.19	0.42
4:BK:320:ARG:HG2	4:BK:358:GLN:O	2.19	0.42
4:BM:263:PRO:O	4:BM:265:ILE:N	2.53	0.42
6:C:212:ARG:NE	6:C:222:ASN:HD21	2.18	0.42
7:C1:136:ARG:O	7:C1:139:GLN:HG3	2.19	0.42
7:C1:287:VAL:HG21	7:C2:401:ASP:OD1	2.19	0.42
7:C2:145:ASN:HA	7:C2:148:GLU:OE1	2.20	0.42
7:C2:174:LEU:HD21	7:C2:318:SER:HB2	2.01	0.42
7:C3:177:ILE:O	7:C3:181:LEU:HG	2.20	0.42
7:C5:435:GLN:O	7:C5:438:LEU:HG	2.19	0.42
7:C6:326:GLU:O	7:C6:330:ILE:HG12	2.19	0.42
7:C7:101:ARG:O	7:C7:105:VAL:HG23	2.19	0.42
7:C7:256:LYS:NZ	7:Cb:204:LYS:HA	2.35	0.42
7:C7:451:THR:O	7:C7:455:LEU:HD23	2.19	0.42
7:C8:97:ASP:O	7:C8:101:ARG:HG2	2.19	0.42
7:C8:202:ARG:HH12	7:C8:472:LYS:HD3	1.84	0.42
4:CC:11:GLN:HB2	4:CC:74:VAL:HG21	2.01	0.42
4:CC:105:ARG:HG2	4:CC:109:THR:HG21	2.02	0.42
3:CD:117:LEU:HB3	3:CD:121:ARG:NH2	2.35	0.42
4:CE:260:VAL:O	3:CF:397:TRP:HH2	2.02	0.42
4:CE:265:ILE:HD12	4:CE:432:TYR:CE1	2.55	0.42
4:CE:423:GLU:HA	4:CE:426:ALA:HB3	2.02	0.42
3:CF:130:LEU:HB2	3:CF:162:ARG:HH11	1.85	0.42
3:CF:178:THR:HB	3:CF:181:GLU:HB2	2.01	0.42
3:CF:374:ILE:O	3:CF:377:LEU:HB2	2.19	0.42
4:CG:31:GLN:HE22	4:CG:37:PRO:HD3	1.85	0.42
4:CG:196:GLU:HG2	4:CG:197:HIS:ND1	2.35	0.42
4:CG:402:ARG:HB2	4:CG:405:VAL:HG11	2.01	0.42
3:CH:404:ASP:N	3:CH:404:ASP:OD1	2.51	0.42
4:CI:80:THR:HG23	15:H4:218:ILE:HD13	2.01	0.42
3:CJ:156:ARG:NE	3:CJ:164:MET:HE3	2.34	0.42
4:CK:8:HIS:NE2	4:CK:21:TRP:HH2	2.16	0.42
4:CK:84:ARG:CZ	15:H5:212:LEU:HB2	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Cb:129:GLN:O	7:Cb:133:GLN:HG2	2.20	0.42
7:Cd:332:THR:O	7:Cd:336:MET:HG2	2.20	0.42
6:D:72:GLU:HG2	6:D:73:ASP:N	2.35	0.42
8:D2:131:MET:SD	8:D2:201:ILE:HD13	2.59	0.42
8:D3:147:VAL:O	8:D3:151:ILE:HG13	2.20	0.42
8:D3:267:ARG:HA	8:D3:270:ARG:NE	2.33	0.42
8:D4:189:LEU:HD21	8:D4:285:ILE:HG21	2.02	0.42
8:D5:352:VAL:O	8:D5:356:ARG:HG2	2.20	0.42
8:D5:376:ARG:HG3	8:D5:377:LEU:N	2.35	0.42
8:D7:160:GLU:O	8:D7:160:GLU:HG2	2.19	0.42
8:D7:410:MET:O	8:D7:414:LYS:HG3	2.19	0.42
8:D9:276:VAL:HG12	8:D9:280:LYS:HZ2	1.84	0.42
8:D9:386:MET:O	8:D9:389:ARG:HG3	2.19	0.42
3:DB:213:ARG:NH1	3:DB:297:LYS:HA	2.34	0.42
4:DC:224:TYR:O	4:DC:225:THR:C	2.63	0.42
4:DC:271:THR:HB	4:DC:377:MET:HE3	2.02	0.42
4:DC:318:LEU:O	4:DC:375:VAL:HA	2.19	0.42
3:DD:371:SER:OG	3:DD:372:THR:N	2.51	0.42
4:DE:76:ASP:HB3	15:H3:285:TYR:CE1	2.54	0.42
4:DE:329:ASN:HA	4:DE:332:ILE:HG12	2.02	0.42
4:DG:53:PHE:HE1	4:DG:63:PRO:HG3	1.84	0.42
3:DH:16:ILE:HD13	3:DH:226:ASN:ND2	2.35	0.42
3:DH:246:LEU:HB3	3:DH:353:VAL:O	2.20	0.42
3:DH:247:ASN:CB	3:DH:252:LYS:HG2	2.50	0.42
3:DH:309:ARG:HE	3:DH:426:GLN:HE21	1.66	0.42
3:DJ:376:GLU:HA	3:DJ:379:LYS:HE3	2.00	0.42
4:DK:3:GLU:CD	4:DK:131:GLY:H	2.27	0.42
4:DK:387:ALA:HA	4:DK:390:ARG:NH1	2.35	0.42
4:DK:423:GLU:HA	4:DK:426:ALA:HB3	2.00	0.42
3:DL:235:GLY:O	3:DL:238:THR:OG1	2.31	0.42
9:E:618:ASP:O	9:E:622:LEU:HD13	2.19	0.42
9:E:794:LYS:HG2	9:E:817:TRP:NE1	2.35	0.42
4:EA:27:GLU:CG	4:EA:243:ARG:HH12	2.32	0.42
4:EA:40:LYS:HE2	14:G4:716:LYS:H	1.84	0.42
4:EA:91:GLN:NE2	4:EA:92:LEU:HD12	2.35	0.42
3:EB:31:ASP:OD2	3:EB:35:THR:OG1	2.32	0.42
3:EF:267:MET:HA	3:EF:268:PRO:HD3	1.93	0.42
4:EG:93:ILE:HG13	4:EG:118:VAL:HG12	2.02	0.42
4:EG:280:LYS:HA	4:EG:280:LYS:HD2	1.80	0.42
3:EH:16:ILE:HD13	3:EH:226:ASN:HD22	1.85	0.42
4:EI:167:LEU:HB3	4:EI:169:PHE:CE1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EI:252:LEU:HD12	4:EI:253:THR:N	2.35	0.42
3:EJ:238:THR:HG21	3:EJ:318:ARG:NH1	2.35	0.42
3:EJ:397:TRP:O	3:EJ:401:GLU:N	2.52	0.42
3:EL:415:MET:O	3:EL:418:LEU:HG	2.20	0.42
9:F:286:LYS:HD2	4:HI:58:ALA:H	1.85	0.42
11:F1:468:LYS:HE3	11:F1:468:LYS:HB3	1.89	0.42
11:F3:439:ASP:HA	11:F3:442:GLN:HE21	1.85	0.42
11:F6:389:LEU:HD13	11:F6:423:ILE:HG21	2.02	0.42
4:FA:317:MET:HB2	4:FA:375:VAL:HG21	2.02	0.42
4:FA:351:PHE:HE1	3:FB:177:ASP:H	1.67	0.42
3:FB:420:SER:O	3:FB:423:GLN:NE2	2.52	0.42
4:FC:425:LEU:O	4:FC:428:LEU:N	2.52	0.42
3:FD:28:HIS:O	3:FD:43:GLN:NE2	2.52	0.42
4:FE:139:HIS:CD2	4:FE:170:ALA:HB2	2.54	0.42
4:FE:261:PRO:HA	3:FF:394:PHE:CE1	2.55	0.42
4:FE:274:PRO:HG3	4:FE:374:ALA:HA	2.01	0.42
4:FE:346:TRP:NE1	4:FE:438:ASP:OD2	2.52	0.42
3:FF:156:ARG:CZ	3:FF:164:MET:HE3	2.50	0.42
3:FH:189:VAL:HA	3:FH:192:LEU:HD12	2.01	0.42
4:FI:139:HIS:CD2	4:FI:170:ALA:HB2	2.55	0.42
4:FI:276:ILE:HG22	4:FI:277:SER:O	2.19	0.42
3:FJ:412:GLU:HA	3:FJ:415:MET:HE2	2.01	0.42
4:FK:7:ILE:N	4:FK:136:LEU:O	2.39	0.42
3:FL:22:GLU:HA	3:FL:25:SER:OG	2.20	0.42
11:Fe:186:CYS:HB2	11:Fe:187:PRO:HD3	2.02	0.42
11:Fe:191:ALA:O	11:Fe:195:LEU:HG	2.19	0.42
11:Ff:217:ARG:O	11:Ff:221:LEU:HD23	2.19	0.42
11:Ff:277:ILE:O	11:Ff:277:ILE:HG23	2.20	0.42
11:Ff:439:ASP:HA	11:Ff:442:GLN:HE21	1.85	0.42
11:Ff:445:VAL:HG22	11:Ff:448:LYS:HE2	2.01	0.42
11:Fk:443:LEU:HA	11:Fk:446:MET:HE2	2.02	0.42
11:Fm:245:ASP:HA	11:Fm:248:HIS:HD1	1.84	0.42
12:G:313:LEU:HD13	3:GF:362:LYS:NZ	2.35	0.42
12:G:318:LEU:O	12:G:322:GLN:HG3	2.20	0.42
13:G2:27:ARG:H	13:G2:27:ARG:HD3	1.85	0.42
13:G2:179:LYS:HA	13:G2:179:LYS:HD2	1.83	0.42
13:G2:392:ASP:O	13:G2:396:ASN:ND2	2.53	0.42
13:G3:42:ARG:NH2	13:G3:54:TYR:HB3	2.35	0.42
13:G3:211:PRO:O	13:G3:215:LEU:N	2.40	0.42
13:G3:273:VAL:HG22	13:G3:274:GLU:H	1.84	0.42
14:G4:286:LYS:HD3	14:G4:286:LYS:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G4:576:VAL:O	14:G4:734:ARG:NH2	2.53	0.42
14:G4:721:TRP:NE1	14:G4:725:PRO:HD2	2.34	0.42
14:G5:69:PRO:HB3	14:G5:71:TRP:HE3	1.84	0.42
14:G5:171:ASP:OD1	14:G5:172:PRO:HD2	2.20	0.42
14:G6:437:PHE:CE1	14:G6:453:VAL:HG22	2.52	0.42
3:GB:309:ARG:H	3:GB:372:THR:HG1	1.57	0.42
3:GD:40:SER:HB3	3:GD:42:LEU:HD23	2.02	0.42
4:GE:174:ALA:HB3	4:GE:177:VAL:O	2.20	0.42
3:GH:258:VAL:HG22	3:GH:266:PHE:HZ	1.85	0.42
3:GH:259:PRO:HA	4:GI:404:PHE:CE1	2.55	0.42
4:GI:55:GLU:HA	4:GI:60:LYS:O	2.20	0.42
4:GI:121:ARG:HA	4:GI:124:LYS:HZ1	1.84	0.42
4:GI:183:GLU:N	4:GI:184:PRO:HD2	2.35	0.42
3:GJ:137:HIS:O	3:GJ:168:SER:HA	2.18	0.42
3:GJ:180:VAL:HG23	3:GJ:183:TYR:HD2	1.85	0.42
4:GK:166:LYS:O	4:GK:199:ASP:HB2	2.20	0.42
4:GK:263:PRO:HB2	4:GK:264:ARG:NH1	2.34	0.42
3:GL:66:VAL:HA	3:GL:91:VAL:O	2.19	0.42
3:GL:108:GLU:HA	3:GL:111:GLU:OE2	2.20	0.42
3:GL:209:ASP:O	3:GL:213:ARG:HG2	2.20	0.42
3:GL:379:LYS:O	3:GL:382:SER:OG	2.18	0.42
15:H5:311:GLU:HA	15:H5:315:ARG:CG	2.50	0.42
15:H6:311:GLU:HA	15:H6:315:ARG:CG	2.42	0.42
4:HA:189:LEU:HD21	4:HA:418:PHE:HD1	1.84	0.42
4:HA:234:ILE:O	4:HA:237:SER:OG	2.35	0.42
3:HB:48:ASN:HA	3:HB:51:TYR:O	2.20	0.42
3:HB:117:LEU:O	3:HB:121:ARG:HG2	2.19	0.42
3:HD:6:HIS:HD2	3:HD:134:GLN:HG2	1.85	0.42
3:HD:19:LYS:HA	3:HD:22:GLU:HG3	2.02	0.42
4:HE:345:ASP:OD1	4:HE:345:ASP:N	2.52	0.42
3:HF:3:GLU:HG2	3:HF:130:LEU:HD13	2.01	0.42
3:HF:266:PHE:HB3	3:HF:368:ILE:HD11	2.01	0.42
3:HF:350:LYS:HE3	4:HG:181:VAL:N	2.34	0.42
4:HG:411:GLU:OE2	4:HG:413:MET:HE1	2.19	0.42
3:HJ:6:HIS:CE1	3:HJ:8:GLN:HB2	2.54	0.42
3:HJ:267:MET:HG3	3:HJ:369:GLY:O	2.20	0.42
3:HL:257:MET:O	3:HL:259:PRO:HD3	2.20	0.42
4:IA:326:LYS:NZ	3:IB:211:CYS:HB3	2.35	0.42
4:IA:396:ASP:OD1	4:IA:397:LEU:HG	2.20	0.42
3:IF:3:GLU:HB2	3:IF:62:ARG:NH2	2.34	0.42
3:IF:87:PRO:HA	3:IF:90:PHE:CD2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:IG:1:MET:N	4:IG:130:THR:OG1	2.53	0.42
4:IG:263:PRO:HB2	4:IG:264:ARG:CZ	2.49	0.42
3:IH:30:ILE:HG13	3:IH:36:TYR:HD1	1.84	0.42
3:IH:292:GLN:HA	3:IH:295:ASP:OD2	2.20	0.42
4:II:280:LYS:HA	4:II:280:LYS:HD2	1.78	0.42
4:IK:114:ILE:O	4:IK:118:VAL:HG23	2.20	0.42
4:IK:187:SER:O	4:IK:191:THR:HG23	2.19	0.42
4:IK:192:HIS:CE1	4:IK:193:THR:HG23	2.54	0.42
3:IL:117:LEU:HA	3:IL:120:VAL:HG12	2.02	0.42
4:IM:118:VAL:HA	4:IM:121:ARG:HG2	2.02	0.42
19:J1:129:LEU:HA	19:J1:132:HIS:CE1	2.54	0.42
19:J2:24:ILE:HB	19:J2:28:LEU:HD23	2.02	0.42
4:JA:408:TYR:O	4:JA:411:GLU:HG3	2.20	0.42
3:JB:66:VAL:HA	3:JB:91:VAL:O	2.19	0.42
4:JC:3:GLU:CD	4:JC:132:LEU:H	2.28	0.42
4:JC:53:PHE:O	4:JC:64:ARG:NH1	2.52	0.42
3:JD:49:VAL:C	3:JD:62:ARG:HH21	2.28	0.42
3:JD:182:PRO:HB2	3:JD:388:MET:HE1	2.02	0.42
4:JE:115:VAL:HG21	4:JE:156:ARG:HD3	2.02	0.42
4:JE:311:LYS:NZ	4:JE:343:PHE:O	2.51	0.42
4:JE:421:ALA:HA	4:JE:424:ASP:HB2	2.00	0.42
3:JF:130:LEU:HB2	3:JF:162:ARG:HH11	1.84	0.42
4:JG:174:ALA:HB3	4:JG:177:VAL:O	2.19	0.42
4:JG:399:TYR:HE1	4:JG:418:PHE:HB3	1.84	0.42
3:JH:305:PRO:HA	3:JH:373:ALA:HB2	2.02	0.42
3:JH:324:LYS:HG3	4:JI:221:ARG:NH1	2.35	0.42
4:JI:260:VAL:O	3:JJ:397:TRP:HH2	2.03	0.42
4:JI:317:MET:HB2	4:JI:375:VAL:HG21	2.02	0.42
3:JJ:269:GLY:O	3:JJ:367:PHE:N	2.35	0.42
4:JK:192:HIS:CE1	4:JK:193:THR:HG23	2.54	0.42
3:JL:12:CYS:HA	3:JL:15:GLN:OE1	2.20	0.42
3:JL:21:TRP:CZ2	3:JL:63:ALA:HB2	2.55	0.42
3:JL:173:PRO:HD3	3:JL:203:ASP:OD1	2.20	0.42
20:K:52:ARG:CZ	20:K:52:ARG:HA	2.50	0.42
21:K3:221:GLU:HG2	31:R2:269:ALA:HB1	2.02	0.42
21:K3:387:LEU:HB3	21:K3:392:LYS:NZ	2.35	0.42
21:K4:187:LYS:CD	21:K4:188:CYS:H	2.21	0.42
3:KB:255:VAL:HG12	4:KC:407:TRP:CD2	2.55	0.42
3:KB:272:PRO:HA	3:KB:292:GLN:OE1	2.19	0.42
4:KC:51:THR:HG23	4:KC:52:PHE:HD2	1.85	0.42
4:KC:116:ASP:HA	4:KC:119:LEU:HD12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:KC:301:GLN:OE1	4:KC:301:GLN:N	2.53	0.42
3:KD:172:SER:OG	3:KD:205:GLU:OE2	2.19	0.42
3:KD:273:LEU:H	3:KD:292:GLN:NE2	2.17	0.42
4:KE:71:GLU:N	4:KE:71:GLU:OE1	2.53	0.42
3:KF:324:LYS:HE2	4:KG:222:PRO:HD2	2.02	0.42
3:KF:324:LYS:HD3	4:KG:210:TYR:HE1	1.85	0.42
4:KG:178:SER:OG	4:KG:180:ALA:O	2.38	0.42
4:KG:252:LEU:HD12	4:KG:253:THR:N	2.35	0.42
3:KH:20:PHE:CZ	3:KH:24:ILE:HD11	2.54	0.42
3:KH:322:SER:OG	3:KH:323:MET:SD	2.77	0.42
4:KK:107:HIS:CD2	4:KK:152:LEU:HB2	2.55	0.42
20:L:38:LEU:HD12	20:L:39:LEU:H	1.84	0.42
22:L1:119:LYS:H	4:LC:412:GLY:HA2	1.83	0.42
22:L2:43:LYS:HD3	3:MD:338:SER:CB	2.50	0.42
4:LA:360:PRO:HG2	4:LA:374:ALA:HB3	2.01	0.42
3:LB:218:THR:OG1	3:LB:219:THR:N	2.52	0.42
3:LB:324:LYS:H	3:LB:324:LYS:HG2	1.71	0.42
3:LD:17:GLY:HA2	3:LD:20:PHE:HB3	2.01	0.42
3:LD:83:GLN:O	3:LD:86:ARG:NH2	2.53	0.42
3:LD:118:ASP:OD1	3:LD:121:ARG:NH1	2.53	0.42
3:LD:267:MET:HA	3:LD:268:PRO:HD3	1.88	0.42
4:LE:119:LEU:HD23	4:LE:122:ILE:HD12	2.01	0.42
3:LF:171:PRO:HG3	3:LF:181:GLU:OE2	2.19	0.42
4:LG:201:ALA:H	4:LG:266:HIS:HD2	1.67	0.42
3:LH:249:ASP:O	3:LH:253:LEU:HG	2.20	0.42
3:LJ:170:VAL:N	3:LJ:202:ILE:O	2.47	0.42
4:LK:144:GLY:HA3	39:LK:501:GTP:O3G	2.19	0.42
3:LL:137:HIS:O	3:LL:168:SER:HA	2.19	0.42
3:LL:272:PRO:HA	3:LL:292:GLN:OE1	2.20	0.42
24:M1:47:LEU:O	24:M1:49:GLN:NE2	2.53	0.42
24:M2:41:HIS:HB2	24:M2:101:ASP:C	2.44	0.42
3:MD:31:ASP:OD1	3:MD:35:THR:N	2.52	0.42
3:MF:192:LEU:O	3:MF:196:THR:HG22	2.20	0.42
4:MG:102:ASN:ND2	4:MG:411:GLU:OE2	2.45	0.42
4:MG:345:ASP:OD1	4:MG:345:ASP:N	2.52	0.42
4:MG:360:PRO:HG2	4:MG:374:ALA:HB2	2.02	0.42
4:MG:366:GLY:C	27:P:227:ARG:HH12	2.27	0.42
3:MH:20:PHE:CZ	3:MH:24:ILE:HD11	2.55	0.42
3:MH:249:ASP:O	3:MH:253:LEU:HG	2.20	0.42
3:MH:297:LYS:O	28:O2:10:TYR:OH	2.38	0.42
4:MI:21:TRP:CZ3	4:MI:53:PHE:HE1	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MI:189:LEU:HA	4:MI:192:HIS:NE2	2.35	0.42
4:MI:255:PHE:O	4:MI:259:LEU:HB2	2.19	0.42
4:MK:256:GLN:O	4:MK:260:VAL:HG12	2.20	0.42
4:MK:258:ASN:HA	3:ML:394:PHE:HE2	1.83	0.42
3:ML:81:PHE:O	3:ML:84:ILE:HG22	2.20	0.42
3:ML:215:LEU:HD11	3:ML:228:LEU:HD11	2.01	0.42
3:ML:371:SER:OG	3:ML:372:THR:N	2.53	0.42
4:MM:32:PRO:O	4:MM:85:GLN:NE2	2.53	0.42
4:MM:192:HIS:CE1	4:MM:193:THR:HG23	2.55	0.42
4:NA:362:VAL:HA	4:NA:368:LEU:HD21	2.01	0.42
4:NC:116:ASP:OD1	4:NC:116:ASP:N	2.51	0.42
4:NC:119:LEU:HB3	4:NC:123:ARG:NH2	2.35	0.42
4:NC:251:ASP:HB3	4:NC:254:GLU:OE1	2.19	0.42
4:NC:273:ALA:HB2	4:NC:295:CYS:HB3	2.00	0.42
4:NE:87:PHE:HB3	4:NE:92:LEU:CD2	2.49	0.42
3:NF:197:ASP:OD1	3:NF:198:GLU:N	2.52	0.42
4:NG:261:PRO:HA	3:NH:394:PHE:CE1	2.54	0.42
3:NH:174:LYS:HG3	3:NH:175:VAL:HG12	2.01	0.42
4:NI:255:PHE:O	4:NI:259:LEU:HB2	2.20	0.42
4:NK:359:PRO:HA	4:NK:360:PRO:HD3	1.93	0.42
3:NL:39:ASP:OD1	3:NL:43:GLN:NE2	2.52	0.42
28:O1:75:PRO:HB2	28:O1:76:PRO:HD3	2.02	0.42
3:OB:32:PRO:C	3:OB:83:GLN:HE21	2.27	0.42
4:OC:402:ARG:HB2	4:OC:405:VAL:HG11	2.01	0.42
3:OF:175:VAL:HG22	3:OF:177:ASP:H	1.85	0.42
4:OG:333:ALA:HA	4:OG:336:LYS:HD2	2.02	0.42
3:OH:246:LEU:HD22	3:OH:354:CYS:HA	2.02	0.42
3:OH:299:MET:HE3	3:OH:301:ALA:HB3	2.01	0.42
3:OH:378:PHE:CD1	3:OH:419:VAL:HG22	2.54	0.42
3:OH:410:GLU:HA	3:OH:413:SER:OG	2.20	0.42
4:OI:224:TYR:CE1	39:OI:501:GTP:C5	3.06	0.42
3:OJ:2:ARG:HD3	3:OJ:131:GLN:HG3	2.01	0.42
3:OJ:255:VAL:HG12	4:OK:407:TRP:CD2	2.55	0.42
4:OK:329:ASN:HA	4:OK:332:ILE:HG12	2.02	0.42
4:OK:430:LYS:HA	4:OK:433:GLU:HG2	2.01	0.42
3:OL:135:LEU:O	3:OL:167:PHE:N	2.49	0.42
27:P:99:GLN:HA	27:P:102:GLN:HB2	2.00	0.42
29:P1:126:LEU:O	29:P1:140:TRP:N	2.38	0.42
29:P2:485:CYS:HB2	29:P2:499:ILE:HB	2.02	0.42
29:P3:35:ASP:OD2	29:P3:38:HIS:ND1	2.45	0.42
29:P3:249:PHE:HD2	29:P3:253:VAL:HG22	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:P3:383:MET:HB3	29:P3:429:CYS:SG	2.60	0.42
3:PB:46:ARG:HH22	4:PC:73:THR:HA	1.83	0.42
3:PB:144:GLY:HA3	39:PB:501:GTP:O2A	2.20	0.42
4:PE:105:ARG:O	4:PE:109:THR:OG1	2.34	0.42
3:PF:20:PHE:HA	3:PF:230:SER:HB2	2.01	0.42
3:PF:118:ASP:HA	3:PF:121:ARG:HG2	2.01	0.42
3:PF:391:ARG:C	3:PF:392:LYS:HG3	2.44	0.42
4:PG:296:PHE:HE2	4:PG:335:ILE:HG21	1.85	0.42
3:PH:343:GLU:OE1	3:PH:343:GLU:N	2.52	0.42
3:PH:357:PRO:O	3:PH:359:ARG:NH1	2.50	0.42
4:PK:180:ALA:HB3	4:PK:183:GLU:HB2	2.01	0.42
30:Q3:1416:ARG:HB2	30:Q3:1515:LEU:HD11	2.01	0.42
4:QC:89:PRO:HB2	4:QC:90:GLU:OE1	2.20	0.42
3:QF:117:LEU:HB3	3:QF:121:ARG:NH2	2.34	0.42
3:QH:216:LYS:HB3	3:QH:276:ARG:NH2	2.35	0.42
4:QI:47:ASP:HB3	4:QI:49:PHE:CE2	2.54	0.42
4:QK:6:SER:HB3	4:QK:65:ALA:HB2	2.02	0.42
4:QK:34:GLY:HA3	4:QK:60:LYS:HD2	2.01	0.42
4:QK:259:LEU:HD21	4:QK:316:CYS:HB2	2.01	0.42
3:QL:61:PRO:HD3	3:QL:84:ILE:HG13	2.02	0.42
4:QM:226:ASN:O	4:QM:230:LEU:HG	2.20	0.42
3:RB:1:MET:HE1	3:RB:49:VAL:HA	2.02	0.42
3:RB:269:GLY:N	3:RB:367:PHE:O	2.53	0.42
4:RC:274:PRO:HG3	4:RC:374:ALA:HA	2.02	0.42
4:RC:331:ALA:O	4:RC:335:ILE:HG12	2.19	0.42
3:RD:6:HIS:HB2	3:RD:134:GLN:NE2	2.35	0.42
3:RD:32:PRO:HA	3:RD:81:PHE:CE1	2.55	0.42
4:RE:187:SER:O	4:RE:190:THR:OG1	2.33	0.42
4:RE:400:ALA:O	4:RE:402:ARG:NH2	2.52	0.42
3:RF:211:CYS:HA	3:RF:215:LEU:HD13	2.02	0.42
3:RH:183:TYR:CE1	3:RH:388:MET:HE3	2.54	0.42
4:RI:272:TYR:CE1	4:RI:374:ALA:HB1	2.55	0.42
3:RJ:269:GLY:HA3	3:RJ:367:PHE:HB3	2.01	0.42
3:RJ:324:LYS:HD2	4:RK:221:ARG:HA	2.02	0.42
3:RL:5:VAL:HG22	3:RL:62:ARG:HB3	2.02	0.42
3:RL:391:ARG:C	3:RL:392:LYS:HG3	2.45	0.42
4:RM:85:GLN:HG2	4:RM:86:LEU:HD22	2.01	0.42
4:RM:397:LEU:O	4:RM:401:LYS:HE2	2.19	0.42
3:SB:398:TYR:HB3	3:SB:403:MET:HE2	2.01	0.42
4:SC:196:GLU:HG2	4:SC:197:HIS:ND1	2.35	0.42
3:SD:178:THR:HG22	3:SD:180:VAL:HG12	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:SE:30:ILE:HG13	4:SE:53:PHE:HE2	1.85	0.42
4:SE:315:CYS:O	4:SE:351:PHE:HA	2.19	0.42
3:SF:378:PHE:O	3:SF:381:ILE:HG22	2.20	0.42
4:SI:107:HIS:O	4:SI:152:LEU:HD12	2.20	0.42
4:SI:202:PHE:CD1	4:SI:268:PRO:HD2	2.54	0.42
3:SJ:6:HIS:HB3	3:SJ:21:TRP:HZ2	1.85	0.42
4:SK:187:SER:O	4:SK:191:THR:HG23	2.19	0.42
4:SM:252:LEU:HA	4:SM:255:PHE:CD2	2.55	0.42
32:T:272:GLU:OE1	32:T:272:GLU:N	2.44	0.42
3:TB:4:ILE:HB	3:TB:50:TYR:CD1	2.54	0.42
4:TC:174:ALA:HB3	4:TC:177:VAL:O	2.20	0.42
3:TF:117:LEU:HB3	3:TF:121:ARG:NH2	2.35	0.42
4:TG:174:ALA:HB3	4:TG:177:VAL:O	2.20	0.42
3:TH:85:PHE:HB3	3:TH:90:PHE:CZ	2.54	0.42
3:TH:229:VAL:O	3:TH:232:THR:OG1	2.30	0.42
4:TI:246:GLY:HA2	4:TI:357:TYR:CD2	2.55	0.42
3:TJ:2:ARG:NH1	4:TK:96:LYS:HB3	2.35	0.42
4:TK:1:MET:N	4:TK:130:THR:OG1	2.52	0.42
4:TK:6:SER:HB2	4:TK:136:LEU:HD23	2.02	0.42
4:TK:30:ILE:HD12	4:TK:61:HIS:CD2	2.55	0.42
4:TK:75:VAL:HG22	4:TK:79:ARG:HH21	1.83	0.42
4:TK:285:GLN:NE2	4:TK:286:LEU:O	2.53	0.42
4:TK:359:PRO:HA	4:TK:360:PRO:HD3	1.93	0.42
3:TL:280:GLN:H	3:TL:280:GLN:HG3	1.70	0.42
3:TN:150:LEU:C	3:TN:154:LYS:HZ3	2.28	0.42
33:U:263:GLU:HG2	33:U:266:LYS:HZ2	1.85	0.42
4:UA:16:ILE:HG13	4:UA:17:GLY:N	2.35	0.42
4:UA:167:LEU:HD13	4:UA:200:CYS:HB2	2.02	0.42
4:UA:426:ALA:C	4:UA:430:LYS:HZ2	2.28	0.42
3:UD:6:HIS:HD2	3:UD:134:GLN:HG2	1.85	0.42
4:UG:113:GLU:OE1	4:UG:113:GLU:N	2.50	0.42
4:UG:165:SER:C	4:UG:166:LYS:HD2	2.44	0.42
4:UG:319:TYR:HA	4:UG:374:ALA:O	2.18	0.42
3:UH:152:ILE:HD12	3:UH:195:ASN:HB2	2.01	0.42
3:UH:156:ARG:NE	3:UH:164:MET:HE3	2.35	0.42
4:UI:422:ARG:CZ	4:UI:422:ARG:HB3	2.50	0.42
3:UJ:6:HIS:HE1	3:UJ:8:GLN:HB2	1.85	0.42
3:UJ:334:GLN:O	3:UJ:338:SER:OG	2.23	0.42
3:UL:12:CYS:HB3	39:UL:501:GTP:H5'	2.00	0.42
3:UL:73:MET:HE1	3:UL:92:PHE:CG	2.53	0.42
4:VA:390:ARG:HA	4:VA:393:HIS:CD2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VB:117:LEU:HB3	3:VB:121:ARG:NH2	2.34	0.42
4:VC:52:PHE:CZ	4:VC:239:THR:HB	2.54	0.42
4:VC:280:LYS:O	4:VC:284:GLU:HB2	2.20	0.42
3:VD:101:TRP:HB2	3:VD:184:ASN:HD22	1.83	0.42
3:VD:174:LYS:HG2	3:VD:205:GLU:OE2	2.20	0.42
3:VH:87:PRO:HA	3:VH:90:PHE:CD2	2.55	0.42
4:VI:370:LYS:HG3	4:VI:372:GLN:HE22	1.84	0.42
4:VI:414:GLU:HG2	4:VI:416:GLY:H	1.85	0.42
3:VJ:30:ILE:HG13	3:VJ:36:TYR:CD1	2.55	0.42
3:VJ:259:PRO:HA	4:VK:404:PHE:CE1	2.55	0.42
3:VJ:344:TRP:HD1	4:VK:401:LYS:HD2	1.84	0.42
4:VK:213:CYS:O	4:VK:218:ASP:N	2.53	0.42
3:VL:19:LYS:NZ	3:VL:227:HIS:HB2	2.35	0.42
3:WB:272:PRO:HA	3:WB:292:GLN:OE1	2.20	0.42
4:WC:401:LYS:HG2	4:WC:401:LYS:H	1.72	0.42
3:WD:392:LYS:HD2	3:WD:392:LYS:O	2.20	0.42
4:WG:260:VAL:O	3:WH:397:TRP:HH2	2.01	0.42
3:WH:28:HIS:O	3:WH:43:GLN:NE2	2.53	0.42
4:WI:104:ALA:HA	4:WI:107:HIS:HB3	2.00	0.42
4:WI:223:THR:HG1	4:WI:225:THR:HG1	1.57	0.42
4:WI:317:MET:SD	4:WI:317:MET:N	2.92	0.42
3:WJ:189:VAL:HA	3:WJ:192:LEU:HB2	2.02	0.42
4:WK:9:VAL:HA	4:WK:68:VAL:HG23	2.01	0.42
4:WK:9:VAL:HG11	4:WK:150:ALA:HB2	2.01	0.42
4:WK:13:GLY:HA2	4:WK:16:ILE:HG12	2.00	0.42
4:WK:212:ILE:HG13	4:WK:215:ARG:HH21	1.84	0.42
3:WL:2:ARG:HB3	3:WL:131:GLN:CD	2.45	0.42
3:WL:3:GLU:OE2	3:WL:128:ASP:N	2.53	0.42
3:WL:174:LYS:HG2	3:WL:205:GLU:OE2	2.19	0.42
3:WL:269:GLY:O	3:WL:367:PHE:N	2.38	0.42
33:X:402:TRP:O	33:X:406:GLU:HG3	2.19	0.42
34:XB:37:ILE:HD12	34:XB:37:ILE:HA	1.94	0.42
34:XC:104:ARG:HB2	34:XC:118:ILE:HD11	2.02	0.42
34:XD:97:LYS:O	34:XD:97:LYS:HD3	2.18	0.42
34:XE:73:LEU:HB3	34:XE:168:SER:O	2.20	0.42
34:XF:185:LEU:HD23	34:XF:185:LEU:H	1.85	0.42
34:XG:22:LEU:HD23	34:XG:22:LEU:O	2.19	0.42
35:XI:108:GLU:O	35:XI:112:ARG:HG2	2.20	0.42
35:XK:140:ALA:HA	35:XK:143:LEU:HG	2.01	0.42
37:YH:76:LEU:HA	37:YH:79:LEU:HB2	2.01	0.42
37:YI:61:THR:HG22	37:YI:64:ARG:HH21	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:YM:17:LEU:HG	37:YM:21:GLN:OE1	2.20	0.42
37:YN:25:PHE:HE1	37:YN:66:LEU:HA	1.84	0.42
37:YQ:154:HIS:ND1	37:YQ:154:HIS:O	2.53	0.42
37:YR:83:PHE:CD2	37:YR:148:MET:HE2	2.55	0.42
37:YS:93:THR:HB	37:YS:151:TRP:NE1	2.34	0.42
37:YT:76:LEU:HD13	37:YT:144:VAL:HG11	2.01	0.42
37:YU:3:GLU:HA	37:YU:6:GLU:HB3	2.02	0.42
37:YW:16:LYS:HA	37:YW:19:GLN:HG2	2.02	0.42
37:YW:103:LEU:HD23	37:YW:103:LEU:HA	1.88	0.42
38:a:63:ASN:O	38:a:67:LEU:HD23	2.20	0.42
1:A:129:LYS:HA	1:A:132:TYR:CE2	2.55	0.42
2:A1:311:LYS:HZ1	2:A2:198:ILE:C	2.28	0.42
2:A3:297:MET:SD	2:A3:298:ALA:N	2.92	0.42
2:A3:343:GLU:O	2:A3:347:ASN:ND2	2.53	0.42
2:A3:344:ILE:O	2:A3:348:VAL:HG23	2.20	0.42
2:A4:171:LEU:O	2:A4:175:LEU:HD23	2.20	0.42
2:A4:215:GLU:H	2:A4:215:GLU:CD	2.28	0.42
3:AB:137:HIS:O	3:AB:168:SER:HA	2.20	0.42
4:AC:424:ASP:O	4:AC:428:LEU:HG	2.20	0.42
3:AD:139:LEU:N	3:AD:168:SER:OG	2.52	0.42
4:AE:16:ILE:HG13	4:AE:17:GLY:N	2.35	0.42
4:AE:212:ILE:HG12	4:AE:215:ARG:NH2	2.35	0.42
4:AG:70:LEU:HB3	4:AG:97:GLU:O	2.20	0.42
4:AG:102:ASN:HB3	4:AG:105:ARG:HB2	2.02	0.42
4:AG:390:ARG:HA	4:AG:393:HIS:CD2	2.55	0.42
4:AG:419:SER:HA	4:AG:422:ARG:NE	2.25	0.42
3:AH:73:MET:HE1	3:AH:92:PHE:CB	2.49	0.42
3:AH:165:ASN:OD1	3:AH:166:THR:N	2.53	0.42
3:AJ:233:MET:O	3:AJ:236:VAL:HG12	2.20	0.42
3:AJ:312:THR:OG1	3:AJ:370:ASN:HB3	2.19	0.42
4:AK:66:VAL:HG12	4:AK:68:VAL:HG13	2.02	0.42
4:AK:167:LEU:HD13	4:AK:200:CYS:HB2	2.02	0.42
4:AK:185:TYR:CE2	4:AK:398:MET:HE1	2.54	0.42
4:AK:224:TYR:CE2	39:AK:501:GTP:C5	3.05	0.42
4:AK:312:TYR:HB2	4:AK:343:PHE:HA	2.02	0.42
4:AK:408:TYR:O	4:AK:411:GLU:HG3	2.19	0.42
3:AL:6:HIS:CE1	3:AL:8:GLN:HB2	2.55	0.42
4:AM:186:ASN:OD1	4:AM:187:SER:N	2.52	0.42
4:AM:283:HIS:ND1	4:AM:284:GLU:OE2	2.53	0.42
4:AM:408:TYR:CD2	4:AM:418:PHE:HZ	2.38	0.42
1:B:304:LYS:O	1:B:307:GLU:HG2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B1:114:ILE:O	5:B1:118:THR:HG23	2.20	0.42
5:B1:120:ARG:HA	5:B1:120:ARG:NE	2.34	0.42
5:B2:74:TRP:O	5:B2:77:THR:OG1	2.29	0.42
5:B2:100:GLU:OE1	8:D4:161:ARG:NH1	2.52	0.42
5:B3:10:GLU:C	5:B3:11:ARG:HD3	2.45	0.42
5:B3:167:GLU:HA	5:B3:170:GLN:HG3	2.02	0.42
5:B6:390:CYS:O	5:B6:394:ARG:NH1	2.53	0.42
5:B7:12:TYR:HD2	5:B7:13:ARG:O	2.03	0.42
5:B7:20:ASN:O	5:B7:23:LEU:HG	2.20	0.42
5:B7:46:ARG:HG3	5:B7:47:ASN:N	2.34	0.42
5:B7:159:PHE:HE2	8:D8:436:ARG:HE	1.68	0.42
5:B8:49:THR:N	19:J1:97:ARG:NH2	2.68	0.42
4:BC:280:LYS:HD2	4:BC:280:LYS:HA	1.72	0.42
4:BC:411:GLU:OE2	4:BC:413:MET:HG2	2.19	0.42
3:BD:138:SER:HB3	39:BD:501:GTP:C5'	2.50	0.42
3:BD:295:ASP:HB2	3:BD:298:ASN:HB2	2.01	0.42
3:BD:306:ARG:O	3:BD:306:ARG:NE	2.48	0.42
4:BE:196:GLU:HG2	4:BE:197:HIS:ND1	2.35	0.42
4:BE:260:VAL:HA	4:BE:261:PRO:HD3	1.93	0.42
4:BE:331:ALA:O	4:BE:334:THR:OG1	2.29	0.42
4:BE:414:GLU:HG2	4:BE:417:GLU:OE1	2.19	0.42
3:BF:6:HIS:HA	3:BF:134:GLN:OE1	2.19	0.42
3:BF:133:PHE:N	3:BF:163:ILE:O	2.35	0.42
4:BG:121:ARG:O	4:BG:124:LYS:HG2	2.20	0.42
3:BH:423:GLN:O	3:BH:427:ASP:N	2.53	0.42
4:BI:207:GLU:HB2	4:BI:304:LYS:NZ	2.33	0.42
3:BJ:20:PHE:CZ	3:BJ:24:ILE:HD11	2.55	0.42
4:BK:226:ASN:C	4:BK:226:ASN:HD22	2.25	0.42
4:BK:279:GLU:O	4:BK:283:HIS:HD2	2.02	0.42
7:C2:175:THR:C	7:C2:179:ARG:HE	2.27	0.42
7:C2:186:ILE:O	7:C2:189:GLU:HG2	2.20	0.42
7:C2:270:LYS:O	7:C2:274:LEU:HD23	2.19	0.42
7:C3:226:ILE:O	7:C3:230:GLN:HG2	2.19	0.42
7:C3:275:ARG:O	7:C3:278:SER:HB3	2.19	0.42
7:C3:402:GLU:OE2	7:C3:405:ARG:HG3	2.19	0.42
7:C6:167:MET:HA	7:C6:170:GLU:HB3	2.02	0.42
7:C9:388:GLU:OE1	7:C9:388:GLU:N	2.53	0.42
4:CC:256:GLN:HE22	3:CD:397:TRP:HE1	1.68	0.42
4:CC:405:VAL:O	4:CC:409:VAL:HG22	2.19	0.42
3:CD:337:ASN:HB2	3:CD:340:TYR:CD2	2.54	0.42
3:CD:392:LYS:O	3:CD:395:LEU:HD22	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CE:47:ASP:CG	4:CE:48:SER:H	2.27	0.42
3:CF:132:GLY:HA3	3:CF:163:ILE:H	1.85	0.42
3:CF:394:PHE:HA	3:CF:397:TRP:HZ3	1.85	0.42
4:CG:345:ASP:N	4:CG:345:ASP:OD1	2.52	0.42
3:CH:3:GLU:HB2	3:CH:62:ARG:NH2	2.35	0.42
3:CH:127:CYS:SG	3:CH:130:LEU:HD21	2.60	0.42
3:CH:330:MET:SD	3:CH:334:GLN:HB2	2.60	0.42
4:CI:208:ALA:HB2	4:CI:304:LYS:HE3	2.01	0.42
4:CI:224:TYR:HA	4:CI:227:LEU:HB2	2.00	0.42
4:CI:333:ALA:O	4:CI:337:THR:HG23	2.20	0.42
3:CJ:47:ILE:HD12	3:CJ:241:ARG:HH12	1.84	0.42
3:CJ:47:ILE:HG22	15:H5:224:PHE:CZ	2.55	0.42
4:CK:216:ASN:ND2	4:CK:275:VAL:HG23	2.35	0.42
4:CM:160:ASP:OD1	4:CM:161:TYR:N	2.53	0.42
4:CM:321:GLY:HA3	4:CM:372:GLN:O	2.18	0.42
7:Ca:210:LEU:HD11	7:Cb:93:ARG:HG2	2.02	0.42
7:Cb:178:LYS:HE3	7:Cb:240:ALA:HB3	2.01	0.42
7:Cb:194:VAL:O	7:Cb:197:GLU:HG3	2.20	0.42
6:D:32:TRP:CE2	6:D:90:ARG:HG2	2.55	0.42
6:D:71:TYR:CE2	6:D:73:ASP:HB3	2.55	0.42
6:D:125:ALA:N	6:D:281:ARG:HH12	2.18	0.42
8:D3:346:LYS:HA	8:D3:346:LYS:HD3	1.81	0.42
8:D4:125:SER:HB3	8:D4:208:LYS:HZ3	1.84	0.42
8:D4:246:LYS:HE2	8:D4:246:LYS:HB2	1.82	0.42
8:D6:328:GLU:OE2	8:D7:74:SER:OG	2.37	0.42
8:D8:54:ASP:O	8:D8:57:PHE:HB2	2.19	0.42
8:D9:73:TYR:O	8:D9:76:ARG:HG3	2.20	0.42
4:DA:115:VAL:HA	4:DA:118:VAL:HG22	2.01	0.42
3:DB:83:GLN:OE1	3:DB:83:GLN:N	2.38	0.42
4:DC:163:LYS:HD3	4:DC:163:LYS:HA	1.74	0.42
4:DC:216:ASN:OD1	4:DC:217:LEU:N	2.52	0.42
4:DC:346:TRP:CH2	4:DC:435:VAL:HA	2.55	0.42
3:DD:2:ARG:HB3	3:DD:131:GLN:CD	2.45	0.42
4:DE:138:PHE:HD1	4:DE:169:PHE:HB2	1.84	0.42
3:DF:26:ASP:OD1	3:DF:27:GLU:N	2.53	0.42
3:DF:74:ASP:O	3:DF:77:ARG:HG2	2.20	0.42
3:DF:274:THR:HG21	3:DF:279:GLN:HG3	2.02	0.42
4:DG:10:GLY:O	4:DG:14:VAL:HG13	2.19	0.42
3:DH:260:PHE:HB2	3:DH:263:LEU:HD23	2.01	0.42
3:DH:318:ARG:C	3:DH:321:MET:HE1	2.44	0.42
3:DH:324:LYS:HE3	3:DH:324:LYS:HB3	1.79	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DI:187:SER:O	4:DI:190:THR:OG1	2.33	0.42
3:DJ:261:PRO:HD3	4:DK:406:HIS:CD2	2.55	0.42
4:DK:16:ILE:HG12	4:DK:231:ILE:HD11	2.00	0.42
4:DK:429:GLU:O	4:DK:433:GLU:HG2	2.20	0.42
3:DL:40:SER:HB3	3:DL:42:LEU:HD23	2.01	0.42
4:EA:187:SER:O	4:EA:191:THR:HG23	2.19	0.42
3:EB:282:ARG:NE	3:EB:288:GLU:OE1	2.52	0.42
3:EB:299:MET:SD	3:EB:300:MET:N	2.93	0.42
3:EB:375:GLN:NE2	3:EB:422:TYR:HB3	2.34	0.42
4:EC:208:ALA:HB3	4:EC:302:MET:HA	2.02	0.42
4:EC:414:GLU:HG2	4:EC:417:GLU:OE1	2.20	0.42
3:ED:80:PRO:O	3:ED:83:GLN:NE2	2.34	0.42
3:ED:131:GLN:HB3	3:ED:163:ILE:HD12	2.01	0.42
4:EE:93:ILE:HG13	4:EE:118:VAL:HG12	2.00	0.42
4:EE:224:TYR:HE2	39:EE:501:GTP:C6	2.36	0.42
4:EE:261:PRO:HA	3:EF:394:PHE:CE1	2.55	0.42
4:EG:46:ASP:HA	4:EG:50:ASN:HB3	2.01	0.42
4:EG:88:HIS:CE1	4:EG:90:GLU:HG2	2.55	0.42
4:EG:192:HIS:CE1	4:EG:193:THR:HG23	2.55	0.42
3:EH:20:PHE:O	3:EH:24:ILE:HG12	2.20	0.42
3:EH:375:GLN:H	3:EH:375:GLN:CD	2.27	0.42
3:EJ:172:SER:OG	3:EJ:205:GLU:OE2	2.22	0.42
3:EJ:408:PHE:O	3:EJ:412:GLU:HG3	2.19	0.42
9:F:376:ILE:O	9:F:380:HIS:N	2.50	0.42
11:F3:160:LEU:O	11:F3:164:LEU:HG	2.19	0.42
11:F3:429:THR:O	11:F3:433:ARG:HG2	2.20	0.42
11:F5:311:ARG:O	11:F5:314:SER:OG	2.31	0.42
11:F6:92:PRO:HA	11:F7:207:VAL:HG22	2.01	0.42
11:F6:160:LEU:O	11:F6:164:LEU:HG	2.19	0.42
11:F7:135:GLN:O	11:F7:138:THR:OG1	2.33	0.42
11:F7:198:ARG:O	11:F7:201:ARG:HG2	2.19	0.42
11:F7:390:LYS:HE2	11:F7:394:THR:HG21	2.02	0.42
11:F8:366:GLN:O	11:F8:370:GLN:OE1	2.37	0.42
4:FA:12:ALA:O	39:FA:501:GTP:N2	2.52	0.42
4:FA:229:ARG:NH2	4:FA:363:VAL:HG13	2.35	0.42
4:FA:320:ARG:HG2	4:FA:358:GLN:O	2.20	0.42
3:FB:32:PRO:HA	3:FB:81:PHE:CE1	2.55	0.42
4:FC:3:GLU:N	4:FC:133:GLN:OE1	2.52	0.42
4:FC:252:LEU:HD12	4:FC:253:THR:N	2.35	0.42
3:FD:156:ARG:HD3	3:FD:195:ASN:O	2.20	0.42
3:FD:198:GLU:HG2	3:FD:266:PHE:CE2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FD:389:PHE:CE1	3:FD:408:PHE:HD2	2.38	0.42
3:FD:390:ARG:O	3:FD:390:ARG:NH1	2.46	0.42
4:FE:9:VAL:HG23	4:FE:149:PHE:HD2	1.84	0.42
4:FE:234:ILE:O	4:FE:237:SER:OG	2.31	0.42
4:FE:430:LYS:HA	4:FE:433:GLU:CD	2.45	0.42
3:FF:156:ARG:NE	3:FF:164:MET:HE3	2.35	0.42
3:FF:276:ARG:HG2	14:G5:474:GLY:HA2	2.02	0.42
3:FH:304:ASP:O	3:FH:307:HIS:ND1	2.52	0.42
4:FI:70:LEU:HB3	4:FI:97:GLU:O	2.19	0.42
4:FI:175:PRO:O	4:FI:390:ARG:HD3	2.20	0.42
3:FJ:214:THR:HG21	3:FJ:273:LEU:HB3	2.02	0.42
4:FK:140:SER:HA	4:FK:170:ALA:HB1	2.02	0.42
11:Fa:121:LEU:O	11:Fa:124:MET:HG3	2.20	0.42
11:Fb:360:GLN:O	11:Fb:361:LEU:C	2.61	0.42
11:Fe:354:LYS:NZ	11:Fe:455:LEU:O	2.52	0.42
11:Ff:171:ASP:HB3	11:Ff:175:ARG:NH1	2.34	0.42
11:Ff:327:THR:O	11:Ff:331:GLN:NE2	2.47	0.42
11:Fi:162:ARG:O	11:Fi:165:THR:OG1	2.32	0.42
11:Fl:443:LEU:HA	11:Fl:446:MET:HE2	2.02	0.42
12:G:99:ASN:HA	12:G:102:ARG:HG2	2.02	0.42
12:G:135:LYS:HA	12:G:138:ARG:HG2	2.02	0.42
12:G:297:GLU:O	12:G:301:ARG:N	2.34	0.42
12:G:408:LYS:HA	12:G:411:GLU:HG3	2.01	0.42
13:G1:51:ARG:NH1	13:G1:52:LEU:H	2.17	0.42
13:G3:213:THR:OG1	13:G3:214:GLN:OE1	2.37	0.42
14:G4:233:PHE:HD2	14:G4:355:ASP:HB3	1.84	0.42
14:G5:114:GLN:HB2	14:G5:133:ARG:HB2	2.01	0.42
14:G6:434:LEU:HD13	14:G6:436:TYR:CE2	2.55	0.42
14:G6:676:CYS:O	14:G6:680:ARG:N	2.53	0.42
4:GA:76:ASP:OD1	4:GA:79:ARG:NH1	2.53	0.42
4:GA:389:ALA:HA	4:GA:392:ASP:OD2	2.20	0.42
3:GB:172:SER:OG	3:GB:205:GLU:OE2	2.36	0.42
4:GC:397:LEU:O	4:GC:401:LYS:HG2	2.20	0.42
3:GD:223:GLY:O	3:GD:227:HIS:N	2.49	0.42
4:GE:5:ILE:HD13	4:GE:64:ARG:HB3	2.01	0.42
4:GG:66:VAL:HG12	4:GG:68:VAL:HG13	2.02	0.42
4:GG:333:ALA:O	4:GG:337:THR:HG23	2.19	0.42
3:GH:46:ARG:HH22	4:GI:73:THR:HG23	1.84	0.42
4:GI:283:HIS:H	4:GI:283:HIS:CD2	2.36	0.42
3:GJ:77:ARG:O	3:GJ:82:GLY:HA3	2.19	0.42
15:H1:217:ALA:O	15:H1:236:TYR:OH	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H2:210:PRO:HA	15:H2:214:GLN:HB3	2.02	0.42
15:H2:225:VAL:HG22	15:H2:228:PHE:HE1	1.85	0.42
4:HA:269:LEU:O	4:HA:378:LEU:HA	2.20	0.42
3:HB:51:TYR:CD1	3:HB:61:PRO:HA	2.53	0.42
3:HB:311:LEU:H	3:HB:371:SER:HA	1.84	0.42
4:HC:9:VAL:HG11	4:HC:150:ALA:HB2	2.02	0.42
4:HC:34:GLY:HA2	4:HC:86:LEU:HD11	2.02	0.42
4:HC:405:VAL:O	4:HC:409:VAL:HG22	2.19	0.42
3:HD:174:LYS:HG3	3:HD:175:VAL:HG12	2.02	0.42
3:HF:261:PRO:O	3:HF:264:HIS:NE2	2.52	0.42
4:HG:234:ILE:O	4:HG:238:ILE:HG23	2.20	0.42
4:HI:416:GLY:O	4:HI:420:GLU:HG2	2.20	0.42
4:HK:386:GLU:O	4:HK:390:ARG:N	2.44	0.42
3:HL:212:PHE:O	3:HL:216:LYS:HD3	2.20	0.42
4:IA:8:HIS:CE1	4:IA:21:TRP:HH2	2.37	0.42
3:IB:19:LYS:O	3:IB:23:VAL:HG23	2.20	0.42
3:IB:137:HIS:O	3:IB:168:SER:HA	2.19	0.42
3:IB:152:ILE:HG13	3:IB:195:ASN:HB3	2.01	0.42
3:ID:148:GLY:O	3:ID:152:ILE:HG12	2.19	0.42
4:IE:67:PHE:O	4:IE:93:ILE:N	2.53	0.42
4:IE:332:ILE:O	4:IE:336:LYS:HG3	2.20	0.42
3:IF:121:ARG:HA	3:IF:124:ALA:HB3	2.01	0.42
3:IF:137:HIS:O	3:IF:168:SER:HA	2.20	0.42
3:IF:308:GLY:HA3	3:IF:372:THR:O	2.20	0.42
4:IG:368:LEU:HD23	4:IG:368:LEU:H	1.84	0.42
4:II:123:ARG:O	4:II:123:ARG:HD3	2.19	0.42
4:IK:322:ASP:OD1	4:IK:322:ASP:N	2.46	0.42
3:IL:132:GLY:HA2	3:IL:162:ARG:HB3	2.01	0.42
4:IM:115:VAL:O	4:IM:119:LEU:HG	2.20	0.42
18:J:65:ASP:OD2	18:J:67:VAL:HG22	2.20	0.42
19:J2:87:ILE:O	19:J2:91:ILE:HD12	2.20	0.42
4:JC:252:LEU:HD12	4:JC:253:THR:N	2.34	0.42
4:JC:317:MET:HB2	4:JC:375:VAL:HG21	2.01	0.42
4:JE:71:GLU:OE1	4:JE:71:GLU:N	2.53	0.42
3:JH:12:CYS:O	3:JH:16:ILE:HG12	2.20	0.42
3:JH:137:HIS:O	3:JH:168:SER:HA	2.20	0.42
3:JH:378:PHE:CD1	3:JH:419:VAL:HG22	2.55	0.42
4:JI:20:CYS:O	4:JI:24:TYR:N	2.46	0.42
3:JJ:3:GLU:HG2	3:JJ:130:LEU:HD23	2.00	0.42
3:JJ:348:ASN:OD1	3:JJ:348:ASN:N	2.51	0.42
4:JK:217:LEU:HD13	4:JK:277:SER:HA	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JL:226:ASN:HA	3:JL:229:VAL:HG22	2.01	0.42
3:JL:318:ARG:HD3	3:JL:358:PRO:HG3	2.01	0.42
20:K:201:LEU:HD22	20:K:219:LYS:HB2	2.01	0.42
21:K3:44:VAL:O	21:K3:108:ARG:NH2	2.53	0.42
21:K3:139:ARG:HB3	21:K3:264:TRP:HZ2	1.85	0.42
21:K3:395:ARG:O	21:K3:396:PRO:C	2.62	0.42
21:K4:118:ARG:HA	21:K4:121:GLN:HB2	2.02	0.42
21:K4:139:ARG:HA	21:K4:264:TRP:HE1	1.85	0.42
4:KA:1:MET:HE3	4:KA:50:ASN:ND2	2.35	0.42
4:KA:135:PHE:HD2	4:KA:166:LYS:HG3	1.84	0.42
3:KD:424:GLN:OE1	31:R1:121:ILE:HG13	2.20	0.42
4:KE:34:GLY:HA2	4:KE:86:LEU:HD11	2.02	0.42
3:KF:173:PRO:HD3	3:KF:203:ASP:OD1	2.20	0.42
3:KF:319:GLY:N	3:KF:321:MET:HE1	2.35	0.42
3:KF:324:LYS:HE2	4:KG:222:PRO:HG2	2.02	0.42
4:KI:18:ASN:O	4:KI:22:GLU:HG3	2.20	0.42
4:KI:42:ILE:HG12	4:KI:55:GLU:OE2	2.20	0.42
3:KJ:216:LYS:O	3:KJ:276:ARG:NH2	2.53	0.42
4:KK:35:GLN:HG2	4:KK:59:GLY:O	2.20	0.42
22:L1:200:LEU:HD11	22:L1:237:LEU:HD22	2.02	0.42
22:L2:169:GLN:O	22:L2:172:TYR:HB3	2.19	0.42
22:L2:253:ALA:O	36:Y:45:PRO:HA	2.19	0.42
22:L3:255:LYS:HG3	33:W:105:SER:O	2.19	0.42
4:LA:282:TYR:HD2	4:LA:283:HIS:HD2	1.66	0.42
3:LD:266:PHE:HD1	3:LD:370:ASN:HB2	1.84	0.42
3:LD:273:LEU:O	3:LD:292:GLN:NE2	2.52	0.42
4:LE:124:LYS:HZ3	4:LE:125:LEU:CD2	2.33	0.42
4:LE:132:LEU:O	4:LE:132:LEU:HD12	2.20	0.42
4:LE:165:SER:C	4:LE:166:LYS:HD2	2.44	0.42
4:LE:283:HIS:CD2	4:LE:283:HIS:H	2.38	0.42
3:LF:60:VAL:HG23	3:LF:86:ARG:HH11	1.85	0.42
3:LF:131:GLN:O	3:LF:163:ILE:N	2.46	0.42
3:LF:324:LYS:HE3	3:LF:324:LYS:HB3	1.85	0.42
4:LG:2:ARG:NH1	4:LG:241:SER:O	2.53	0.42
3:LH:19:LYS:HA	3:LH:22:GLU:HG3	2.02	0.42
3:LH:117:LEU:HB3	3:LH:121:ARG:NH2	2.35	0.42
3:LH:199:THR:N	3:LH:264:HIS:O	2.53	0.42
3:LH:375:GLN:HA	3:LH:378:PHE:CE1	2.55	0.42
4:LK:16:ILE:HG13	4:LK:17:GLY:N	2.35	0.42
4:LK:346:TRP:NE1	3:LL:393:ALA:HB2	2.34	0.42
3:MB:350:LYS:HE3	4:MC:181:VAL:H	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MD:350:LYS:HE3	4:ME:181:VAL:H	1.84	0.42
3:MD:410:GLU:HB2	30:Q1:1417:ARG:NH2	2.35	0.42
4:ME:141:PHE:CE2	4:ME:203:MET:HG3	2.54	0.42
3:MF:11:GLN:OE1	39:MF:501:GTP:N2	2.52	0.42
3:MF:52:ASN:ND2	3:MF:62:ARG:HD3	2.35	0.42
4:MG:211:ASP:C	4:MG:215:ARG:HE	2.27	0.42
3:MH:328:GLU:OE1	3:MH:332:ASN:ND2	2.51	0.42
3:MH:406:MET:HG2	30:Q2:1419:ARG:CZ	2.50	0.42
4:MI:76:ASP:OD1	4:MI:79:ARG:NH1	2.53	0.42
4:MI:319:TYR:HA	4:MI:374:ALA:O	2.19	0.42
4:MK:196:GLU:HG2	4:MK:197:HIS:ND1	2.35	0.42
3:ML:309:ARG:N	3:ML:372:THR:OG1	2.34	0.42
4:NA:83:TYR:HB3	4:NA:86:LEU:HD12	2.02	0.42
4:NA:116:ASP:N	4:NA:116:ASP:OD1	2.49	0.42
4:NC:103:TYR:HB2	4:NC:186:ASN:HB2	2.01	0.42
4:NC:352:LYS:NZ	3:ND:178:THR:HA	2.34	0.42
4:NC:389:ALA:HA	4:NC:392:ASP:OD2	2.19	0.42
4:NE:174:ALA:HB3	4:NE:177:VAL:O	2.20	0.42
4:NI:40:LYS:HE2	4:NI:40:LYS:HB2	1.90	0.42
4:NI:230:LEU:O	4:NI:234:ILE:HG12	2.19	0.42
4:NI:321:GLY:HA3	4:NI:372:GLN:O	2.20	0.42
3:NJ:8:GLN:NE2	3:NJ:17:GLY:HA3	2.35	0.42
3:NJ:309:ARG:NH1	3:NJ:342:VAL:HA	2.34	0.42
3:NJ:345:ILE:HD11	4:NK:181:VAL:HG11	2.00	0.42
4:NK:219:ILE:HG13	4:NK:367:ASP:OD2	2.20	0.42
4:NK:386:GLU:HA	4:NK:389:ALA:HB3	2.02	0.42
27:O:43:ALA:O	27:O:47:GLN:N	2.47	0.42
4:OA:13:GLY:HA2	4:OA:16:ILE:HG12	2.02	0.42
3:OB:113:VAL:HG23	3:OB:154:LYS:HE3	2.02	0.42
4:OC:196:GLU:HG2	4:OC:197:HIS:ND1	2.35	0.42
4:OC:251:ASP:HB3	4:OC:254:GLU:OE1	2.20	0.42
3:OD:28:HIS:ND1	3:OD:43:GLN:HB2	2.35	0.42
3:OD:80:PRO:O	3:OD:83:GLN:NE2	2.45	0.42
3:OD:255:VAL:HA	4:OE:407:TRP:CH2	2.55	0.42
3:OH:228:LEU:O	3:OH:232:THR:HG23	2.18	0.42
4:OI:2:ARG:NH1	4:OI:241:SER:O	2.53	0.42
4:OI:104:ALA:HB1	4:OI:108:TYR:CD2	2.55	0.42
4:OI:132:LEU:HD21	4:OI:135:PHE:CE1	2.53	0.42
3:OJ:350:LYS:HE3	4:OK:181:VAL:N	2.35	0.42
4:OK:10:GLY:O	4:OK:14:VAL:HG13	2.19	0.42
4:OK:139:HIS:CE1	4:OK:168:GLU:HB3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:OK:312:TYR:HB2	4:OK:343:PHE:HA	2.02	0.42
3:OL:4:ILE:CD1	3:OL:131:GLN:HB2	2.46	0.42
27:P:255:ASN:O	27:P:258:PRO:HD2	2.20	0.42
29:P1:107:LEU:HD12	29:P1:140:TRP:CZ3	2.54	0.42
29:P1:120:SER:OG	29:P1:124:LEU:N	2.48	0.42
29:P1:580:THR:HB	29:P1:618:PHE:HZ	1.85	0.42
29:P2:363:SER:OG	29:P2:365:ARG:HG2	2.20	0.42
3:PB:3:GLU:CD	3:PB:127:CYS:HB2	2.45	0.42
3:PB:295:ASP:HB2	3:PB:298:ASN:HB2	2.01	0.42
3:PB:309:ARG:HH22	3:PB:344:TRP:HZ3	1.67	0.42
4:PC:19:ALA:HA	4:PC:22:GLU:OE1	2.20	0.42
4:PC:116:ASP:N	4:PC:116:ASP:OD1	2.53	0.42
3:PF:139:LEU:N	3:PF:168:SER:OG	2.53	0.42
3:PF:277:GLY:O	3:PF:280:GLN:NE2	2.51	0.42
4:PI:285:GLN:NE2	4:PI:286:LEU:O	2.53	0.42
3:PJ:166:THR:OG1	3:PJ:198:GLU:O	2.34	0.42
3:PJ:178:THR:HB	3:PJ:181:GLU:HB2	2.01	0.42
3:PJ:267:MET:HA	3:PJ:268:PRO:HD3	1.94	0.42
3:PJ:391:ARG:C	3:PJ:392:LYS:HG3	2.45	0.42
4:PK:139:HIS:CD2	4:PK:170:ALA:HB2	2.55	0.42
4:PK:182:VAL:O	4:PK:185:TYR:HB2	2.19	0.42
3:PL:247:ASN:HB3	3:PL:252:LYS:HG3	2.01	0.42
4:PM:167:LEU:HB3	4:PM:169:PHE:CE1	2.55	0.42
27:Q:18:LYS:O	27:Q:21:ILE:HG22	2.20	0.42
30:Q1:1339:CYS:O	30:Q1:1343:LEU:HD12	2.20	0.42
4:QC:84:ARG:NH2	37:YB:124:HIS:O	2.52	0.42
4:QE:143:GLY:O	4:QE:147:SER:OG	2.28	0.42
4:QE:260:VAL:O	3:QF:397:TRP:HH2	2.03	0.42
4:QE:359:PRO:HA	4:QE:360:PRO:HD3	1.97	0.42
4:QG:11:GLN:O	4:QG:14:VAL:HG22	2.20	0.42
4:QG:132:LEU:HD21	4:QG:135:PHE:CE1	2.55	0.42
4:QI:52:PHE:CZ	4:QI:239:THR:HB	2.54	0.42
4:QI:319:TYR:HB2	4:QI:355:ILE:HD13	2.01	0.42
4:QK:11:GLN:HB2	4:QK:74:VAL:HG21	2.01	0.42
4:QK:142:GLY:HA2	4:QK:183:GLU:HG2	2.02	0.42
4:QK:206:ASN:HA	4:QK:209:ILE:HD12	2.01	0.42
3:QL:186:THR:HG21	3:QL:385:PHE:CD1	2.55	0.42
4:QM:176:GLN:NE2	4:QM:177:VAL:HG23	2.34	0.42
4:QM:229:ARG:NH1	4:QM:233:GLN:HB2	2.35	0.42
4:QM:288:VAL:O	4:QM:292:THR:OG1	2.24	0.42
4:QM:295:CYS:HB2	4:QM:377:MET:HE3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RB:48:ASN:HA	3:RB:51:TYR:O	2.19	0.42
4:RC:139:HIS:HE1	4:RC:168:GLU:HB3	1.85	0.42
4:RC:186:ASN:OD1	4:RC:187:SER:N	2.53	0.42
3:RD:47:ILE:HG13	3:RD:51:TYR:HB2	2.01	0.42
3:RD:376:GLU:H	3:RD:376:GLU:CD	2.26	0.42
4:RE:187:SER:O	4:RE:191:THR:HG23	2.20	0.42
3:RF:258:VAL:O	4:RG:407:TRP:NE1	2.45	0.42
3:RF:272:PRO:HA	3:RF:292:GLN:OE1	2.19	0.42
3:RF:299:MET:SD	3:RF:304:ASP:HA	2.59	0.42
3:RH:52:ASN:OD1	3:RH:62:ARG:NH1	2.53	0.42
3:RH:267:MET:HA	3:RH:268:PRO:HD3	1.91	0.42
4:RI:188:ILE:HD11	4:RI:425:LEU:HB2	2.02	0.42
4:RM:141:PHE:HD1	4:RM:190:THR:OG1	2.03	0.42
4:RM:165:SER:C	4:RM:166:LYS:HD2	2.45	0.42
4:RM:288:VAL:HG21	4:RM:328:VAL:HA	2.01	0.42
4:RM:434:GLU:HA	4:RM:437:VAL:HB	2.01	0.42
3:SB:32:PRO:C	3:SB:83:GLN:HE21	2.26	0.42
3:SB:267:MET:O	3:SB:368:ILE:HD12	2.19	0.42
4:SC:52:PHE:HZ	4:SC:239:THR:HB	1.84	0.42
4:SC:93:ILE:HD13	4:SC:118:VAL:HG22	2.01	0.42
4:SC:104:ALA:HB1	4:SC:108:TYR:CD2	2.54	0.42
4:SC:324:VAL:O	4:SC:328:VAL:HG23	2.19	0.42
4:SE:132:LEU:HD13	4:SE:164:LYS:HE2	2.02	0.42
4:SE:157:LEU:HD13	4:SE:166:LYS:HG2	2.02	0.42
4:SE:368:LEU:HD23	4:SE:368:LEU:H	1.84	0.42
3:SF:143:THR:O	3:SF:147:MET:HG3	2.19	0.42
4:SG:3:GLU:OE2	4:SG:130:THR:N	2.43	0.42
4:SG:174:ALA:HB3	4:SG:177:VAL:O	2.19	0.42
4:SK:387:ALA:O	4:SK:390:ARG:HG3	2.19	0.42
3:SL:117:LEU:HD11	3:SL:154:LYS:HD2	2.01	0.42
3:SL:321:MET:N	3:SL:321:MET:SD	2.93	0.42
4:SM:9:VAL:HG23	4:SM:149:PHE:HD2	1.85	0.42
4:SM:318:LEU:O	4:SM:375:VAL:HA	2.20	0.42
3:TB:31:ASP:OD2	3:TB:35:THR:OG1	2.36	0.42
3:TB:322:SER:HG	3:TB:323:MET:H	1.68	0.42
4:TC:11:GLN:O	4:TC:14:VAL:HG22	2.20	0.42
3:TD:308:GLY:HA3	3:TD:372:THR:O	2.20	0.42
4:TE:178:SER:OG	4:TE:180:ALA:O	2.37	0.42
4:TE:188:ILE:HG22	4:TE:421:ALA:HB1	2.02	0.42
4:TE:419:SER:HA	4:TE:422:ARG:NE	2.29	0.42
3:TF:166:THR:OG1	3:TF:198:GLU:O	2.30	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TH:66:VAL:HA	3:TH:91:VAL:O	2.20	0.42
3:TH:166:THR:OG1	3:TH:198:GLU:O	2.28	0.42
4:TK:40:LYS:HE2	4:TK:40:LYS:HB2	1.90	0.42
4:TK:317:MET:HE1	4:TK:351:PHE:HB3	2.00	0.42
33:U:163:SER:HB2	33:U:167:GLU:OE2	2.20	0.42
3:UB:134:GLN:HA	3:UB:165:ASN:O	2.20	0.42
3:UB:350:LYS:HE3	4:UC:181:VAL:N	2.35	0.42
3:UD:47:ILE:HG12	3:UD:59:TYR:CD2	2.55	0.42
3:UD:282:ARG:NH2	3:UD:292:GLN:OE1	2.29	0.42
4:UE:2:ARG:HA	4:UE:133:GLN:NE2	2.35	0.42
4:UE:11:GLN:O	4:UE:14:VAL:HG22	2.19	0.42
4:UE:132:LEU:HD23	4:UE:132:LEU:O	2.20	0.42
3:UF:152:ILE:O	3:UF:156:ARG:HG2	2.20	0.42
3:UF:204:ASN:HA	3:UF:207:LEU:HD12	2.02	0.42
4:UG:263:PRO:HB2	4:UG:264:ARG:NH1	2.34	0.42
4:UI:68:VAL:HG21	4:UI:149:PHE:CE2	2.55	0.42
4:UI:70:LEU:HA	4:UI:95:GLY:HA3	2.01	0.42
4:UI:175:PRO:O	4:UI:390:ARG:HD3	2.20	0.42
4:UI:263:PRO:O	4:UI:264:ARG:HB2	2.19	0.42
4:UI:346:TRP:N	4:UI:346:TRP:CD1	2.87	0.42
3:UL:5:VAL:HG23	3:UL:130:LEU:HD21	2.02	0.42
3:UL:28:HIS:HB2	3:UL:30:ILE:HD12	2.00	0.42
4:VA:6:SER:HB3	4:VA:65:ALA:HB2	2.01	0.42
4:VA:132:LEU:HD13	4:VA:164:LYS:HE2	2.02	0.42
4:VA:188:ILE:HG21	4:VA:425:LEU:HD23	2.01	0.42
4:VA:431:ASP:HA	4:VA:434:GLU:OE2	2.20	0.42
4:VC:160:ASP:OD1	4:VC:161:TYR:N	2.53	0.42
4:VC:397:LEU:O	4:VC:401:LYS:HG2	2.20	0.42
3:VD:30:ILE:HG13	3:VD:36:TYR:CD1	2.54	0.42
4:VE:209:ILE:HG23	4:VE:230:LEU:HD21	2.01	0.42
4:VE:263:PRO:HB2	4:VE:264:ARG:NH1	2.35	0.42
4:VE:318:LEU:O	4:VE:375:VAL:HA	2.20	0.42
4:VI:88:HIS:CE1	4:VI:90:GLU:CD	2.98	0.42
4:VI:287:SER:N	4:VI:290:GLU:OE2	2.52	0.42
3:VJ:131:GLN:HB3	3:VJ:163:ILE:HD12	2.02	0.42
3:VJ:173:PRO:HD3	3:VJ:203:ASP:OD1	2.20	0.42
3:VJ:174:LYS:HG2	3:VJ:205:GLU:OE2	2.19	0.42
3:VL:388:MET:O	3:VL:392:LYS:N	2.53	0.42
4:WA:216:ASN:ND2	4:WA:275:VAL:O	2.53	0.42
4:WA:346:TRP:CD1	4:WA:346:TRP:N	2.87	0.42
4:WA:390:ARG:HA	4:WA:393:HIS:CD2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:WB:232:THR:HG22	3:WB:270:PHE:CD1	2.55	0.42
3:WB:375:GLN:HA	3:WB:378:PHE:CE1	2.54	0.42
4:WC:36:MET:HG3	4:WC:41:THR:OG1	2.19	0.42
4:WC:255:PHE:O	4:WC:259:LEU:HB2	2.20	0.42
3:WD:8:GLN:NE2	3:WD:17:GLY:HA3	2.34	0.42
3:WD:11:GLN:HE21	39:WD:501:GTP:H3'	1.85	0.42
3:WD:199:THR:HB	3:WD:265:PHE:HA	2.01	0.42
3:WD:204:ASN:OD1	3:WD:205:GLU:N	2.53	0.42
4:WE:252:LEU:HA	4:WE:255:PHE:CD2	2.55	0.42
4:WG:263:PRO:O	4:WG:264:ARG:HB2	2.20	0.42
3:WH:81:PHE:HD1	3:WH:84:ILE:HG13	1.85	0.42
4:WK:188:ILE:HG22	4:WK:421:ALA:HB1	2.02	0.42
3:WL:378:PHE:HA	3:WL:381:ILE:HG22	2.02	0.42
34:XA:112:THR:O	34:XA:113:ARG:NE	2.51	0.42
34:XD:81:LYS:HD3	34:XD:161:ARG:HD2	2.02	0.42
34:XF:86:TYR:HA	34:XF:107:ASN:HD21	1.85	0.42
34:XF:177:LEU:O	34:XF:182:LYS:HE2	2.20	0.42
35:XH:80:TRP:HZ2	35:XH:117:ASP:HB3	1.85	0.42
35:XK:144:ARG:O	35:XK:144:ARG:NH1	2.53	0.42
35:XL:174:TYR:HB2	35:XL:175:ARG:HH11	1.84	0.42
37:YA:12:GLU:HA	37:YA:15:TYR:HD2	1.84	0.42
37:YC:6:GLU:HG3	37:YC:9:ARG:HE	1.85	0.42
37:YC:29:LEU:HB3	37:YC:33:ARG:HH12	1.84	0.42
37:YG:162:VAL:HA	37:YG:165:HIS:ND1	2.34	0.42
37:YJ:93:THR:HB	37:YJ:151:TRP:CD1	2.55	0.42
37:YK:147:PHE:HA	37:YK:150:GLU:OE1	2.20	0.42
37:YM:42:PRO:HA	37:YM:133:HIS:HB3	2.01	0.42
37:YM:47:GLU:N	37:YM:106:GLN:OE1	2.53	0.42
37:YM:116:LYS:HD3	37:YM:117:TYR:H	1.85	0.42
37:YN:157:LYS:O	37:YN:159:PRO:HD3	2.20	0.42
37:YU:117:TYR:CD1	37:YU:118:PRO:HA	2.55	0.42
37:YW:59:ASN:HB2	37:YW:62:HIS:ND1	2.35	0.42
36:Z:215:GLN:O	36:Z:219:HIS:ND1	2.53	0.42
36:Z:303:GLN:C	36:Z:305:ARG:H	2.27	0.42
36:Z:485:TYR:HB3	36:Z:486:PRO:HD3	2.02	0.42
1:A:88:GLU:HG3	1:A:92:ARG:HH22	1.85	0.42
2:A1:367:ARG:HD3	14:G4:182:GLY:CA	2.50	0.42
2:A2:215:GLU:HA	2:A2:218:LEU:HD12	2.00	0.42
2:A2:328:LEU:HD23	2:A2:328:LEU:H	1.85	0.42
2:A3:269:LYS:O	2:A3:272:LYS:HG2	2.19	0.42
2:A3:340:GLU:HA	2:A3:343:GLU:HG3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:11:GLN:C	39:AB:501:GTP:HN22	2.28	0.42
4:AC:389:ALA:HA	4:AC:392:ASP:OD2	2.19	0.42
3:AD:91:VAL:HG11	3:AD:116:VAL:HG12	2.02	0.42
4:AE:104:ALA:HB1	4:AE:108:TYR:HD2	1.84	0.42
4:AE:121:ARG:O	4:AE:124:LYS:HG2	2.20	0.42
3:AH:41:ASP:N	3:AH:41:ASP:OD1	2.50	0.42
4:AI:163:LYS:HA	4:AI:163:LYS:HD3	1.76	0.42
4:AK:333:ALA:O	4:AK:337:THR:HG23	2.20	0.42
4:AK:389:ALA:HA	4:AK:392:ASP:OD2	2.19	0.42
4:AM:345:ASP:N	4:AM:345:ASP:OD1	2.52	0.42
4:AM:398:MET:O	4:AM:402:ARG:N	2.53	0.42
1:B:319:VAL:O	1:B:322:GLU:HG3	2.20	0.42
5:B2:23:LEU:HG	5:B2:27:ASN:HD21	1.85	0.42
5:B2:27:ASN:O	5:B2:30:ARG:HG2	2.20	0.42
5:B3:97:GLU:HB3	5:B3:101:GLN:HE22	1.85	0.42
5:B4:268:ARG:HA	5:B4:268:ARG:HD2	1.83	0.42
5:B6:117:LEU:O	5:B6:121:GLU:HG2	2.20	0.42
5:B8:58:HIS:HA	5:B8:61:ARG:NH1	2.35	0.42
5:B8:342:VAL:HG12	5:B8:346:GLU:OE2	2.20	0.42
5:B9:370:LEU:HG	5:B9:374:GLN:HE22	1.84	0.42
3:BD:392:LYS:HD2	3:BD:392:LYS:O	2.19	0.42
4:BE:271:THR:HB	4:BE:377:MET:HE2	2.01	0.42
3:BF:346:PRO:HD2	4:BG:398:MET:CE	2.49	0.42
4:BG:88:HIS:HD2	4:CG:284:GLU:OE2	2.03	0.42
4:BG:333:ALA:HA	4:BG:336:LYS:HD2	2.01	0.42
4:BI:2:ARG:CZ	4:BI:242:LEU:HA	2.50	0.42
4:BI:331:ALA:O	4:BI:335:ILE:HG12	2.20	0.42
3:BJ:255:VAL:HA	4:BK:407:TRP:CE2	2.55	0.42
4:BK:368:LEU:HD23	4:BK:368:LEU:H	1.85	0.42
3:BL:251:ARG:O	3:BL:255:VAL:HG22	2.20	0.42
4:BM:155:GLU:O	4:BM:159:VAL:HG13	2.19	0.42
6:C:304:TYR:CE2	6:C:321:LEU:HD13	2.54	0.42
7:C3:319:ALA:O	7:C3:323:GLU:HG2	2.19	0.42
7:C4:141:HIS:HD2	7:C5:419:ARG:NH1	2.18	0.42
7:C4:178:LYS:HZ1	7:C4:179:ARG:HH12	1.66	0.42
7:C5:391:ALA:O	7:C5:394:LYS:HB3	2.20	0.42
7:C8:410:GLU:OE1	7:C8:410:GLU:N	2.36	0.42
7:C8:467:TYR:O	7:C8:471:GLU:OE1	2.38	0.42
7:C9:472:LYS:O	7:C9:476:MET:HE3	2.20	0.42
4:CC:21:TRP:HA	4:CC:24:TYR:HB2	2.02	0.42
4:CC:176:GLN:NE2	4:CC:177:VAL:HG23	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CD:28:HIS:CE1	3:CD:241:ARG:HD2	2.55	0.42
3:CD:284:LEU:HG	3:CD:363:MET:HB2	2.02	0.42
4:CE:88:HIS:CD2	4:DC:280:LYS:HZ1	2.37	0.42
3:CF:222:TYR:HA	3:CF:225:LEU:HD13	2.01	0.42
4:CG:69:ASP:N	4:CG:93:ILE:O	2.53	0.42
3:CJ:407:GLU:HA	3:CJ:410:GLU:OE2	2.20	0.42
4:CK:185:TYR:HA	4:CK:395:PHE:HE1	1.84	0.42
4:CK:296:PHE:HE1	4:CK:377:MET:HE2	1.84	0.42
3:CL:257:MET:HE1	3:CL:314:ALA:HB2	2.02	0.42
4:CM:216:ASN:HB2	4:CM:276:ILE:HD12	2.01	0.42
4:CM:235:VAL:HA	4:CM:238:ILE:HG12	2.00	0.42
7:Cc:399:ARG:HH12	7:Cd:143:THR:HG22	1.85	0.42
7:Cd:279:GLU:O	7:Cd:281:VAL:HG22	2.20	0.42
8:D1:39:SER:OG	8:D1:40:GLY:N	2.53	0.42
8:D4:337:ALA:HA	8:D4:340:LYS:HE2	2.02	0.42
8:D7:407:ASP:O	8:D7:410:MET:HG3	2.20	0.42
8:D9:272:ARG:O	8:D9:276:VAL:HG23	2.19	0.42
4:DA:51:THR:HG23	4:DA:52:PHE:CD2	2.54	0.42
4:DA:227:LEU:O	4:DA:231:ILE:HG12	2.20	0.42
3:DB:269:GLY:N	3:DB:367:PHE:O	2.53	0.42
4:DC:89:PRO:HB2	4:DC:90:GLU:OE1	2.20	0.42
3:DD:73:MET:SD	13:G1:400:LEU:HD22	2.59	0.42
3:DD:255:VAL:HA	4:DE:407:TRP:CE2	2.55	0.42
4:DE:161:TYR:HB3	4:DE:164:LYS:HZ3	1.85	0.42
4:DE:319:TYR:N	4:DE:354:GLY:O	2.53	0.42
3:DF:41:ASP:O	3:DF:45:GLU:N	2.48	0.42
3:DF:280:GLN:H	3:DF:280:GLN:HG3	1.69	0.42
4:DG:388:TRP:HB3	4:DG:425:LEU:HD11	2.02	0.42
4:DI:141:PHE:C	4:DI:143:GLY:H	2.28	0.42
4:DI:145:THR:HG1	39:DI:501:GTP:PB	2.42	0.42
4:DI:288:VAL:HG23	4:DI:319:TYR:CE2	2.54	0.42
3:DJ:318:ARG:HD3	3:DJ:358:PRO:HG3	2.02	0.42
4:DK:216:ASN:ND2	4:DK:275:VAL:HG23	2.35	0.42
10:E1:54:MET:HA	10:E1:54:MET:HE2	2.01	0.42
10:E1:153:ARG:C	10:E1:155:GLN:H	2.28	0.42
4:EA:255:PHE:HA	4:EA:259:LEU:HD23	2.02	0.42
3:EB:50:TYR:HE2	3:EB:241:ARG:NH2	2.18	0.42
3:EB:324:LYS:HD3	4:EC:210:TYR:CE1	2.55	0.42
3:EB:406:MET:O	3:EB:409:THR:OG1	2.23	0.42
4:EC:5:ILE:HB	4:EC:135:PHE:HD1	1.84	0.42
4:EC:141:PHE:HB2	4:EC:173:PRO:HD3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EC:286:LEU:HD23	4:EC:286:LEU:H	1.85	0.42
3:ED:31:ASP:OD2	3:ED:35:THR:OG1	2.34	0.42
3:EF:350:LYS:HE3	4:EG:181:VAL:H	1.85	0.42
4:EG:263:PRO:O	4:EG:264:ARG:HB2	2.20	0.42
4:EG:290:GLU:HG2	4:EG:291:ILE:N	2.35	0.42
3:EH:51:TYR:CD1	3:EH:61:PRO:HA	2.55	0.42
3:EH:75:SER:O	3:EH:78:SER:OG	2.32	0.42
3:EH:87:PRO:HA	3:EH:90:PHE:CD2	2.55	0.42
4:EI:21:TRP:CZ2	4:EI:65:ALA:HB2	2.54	0.42
4:EI:286:LEU:HD23	4:EI:286:LEU:H	1.85	0.42
4:EI:331:ALA:O	4:EI:335:ILE:HG12	2.20	0.42
3:EJ:174:LYS:HG2	3:EJ:205:GLU:OE2	2.20	0.42
4:EK:104:ALA:O	4:EK:108:TYR:N	2.50	0.42
4:EK:166:LYS:O	4:EK:199:ASP:HB2	2.20	0.42
4:EK:271:THR:N	4:EK:377:MET:O	2.53	0.42
4:EK:324:VAL:HG21	3:EL:219:THR:HG22	2.02	0.42
11:F2:385:LYS:C	11:F2:388:PRO:HD2	2.45	0.42
11:F3:102:GLN:HA	11:F3:105:ASN:ND2	2.34	0.42
11:F3:244:ARG:HA	11:F3:244:ARG:HD2	1.77	0.42
11:F3:450:ARG:O	11:F3:454:GLU:OE1	2.37	0.42
11:F4:89:ARG:HD3	11:F4:89:ARG:N	2.31	0.42
11:F4:175:ARG:O	11:F4:178:GLU:HG3	2.19	0.42
11:F6:201:ARG:HH22	11:F6:465:ASP:CB	2.28	0.42
11:F8:443:LEU:HD12	11:F8:444:LEU:N	2.35	0.42
4:FA:1:MET:N	4:FA:130:THR:OG1	2.53	0.42
4:FA:320:ARG:CZ	4:FA:360:PRO:HA	2.50	0.42
3:FB:156:ARG:CZ	3:FB:164:MET:HE3	2.50	0.42
3:FB:182:PRO:HB2	3:FB:388:MET:CE	2.50	0.42
3:FB:292:GLN:HA	3:FB:295:ASP:OD2	2.20	0.42
4:FC:54:SER:N	4:FC:62:VAL:O	2.52	0.42
4:FC:194:THR:HA	4:FC:197:HIS:CE1	2.55	0.42
3:FD:276:ARG:HD3	13:G1:460:GLY:C	2.45	0.42
3:FD:374:ILE:HG22	3:FD:378:PHE:CD2	2.54	0.42
4:FE:104:ALA:HB1	4:FE:108:TYR:HD2	1.84	0.42
4:FE:132:LEU:HD13	4:FE:164:LYS:HE2	2.02	0.42
4:FE:346:TRP:HZ3	3:FF:390:ARG:HB3	1.84	0.42
4:FE:390:ARG:HA	4:FE:393:HIS:CD2	2.55	0.42
4:FG:414:GLU:HG2	4:FG:417:GLU:OE1	2.19	0.42
4:FI:186:ASN:OD1	4:FI:187:SER:N	2.53	0.42
4:FK:52:PHE:HE2	4:FK:243:ARG:HG3	1.84	0.42
4:FK:234:ILE:O	4:FK:238:ILE:HG23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FL:118:ASP:O	3:FL:122:LYS:HG3	2.19	0.42
3:FL:305:PRO:HB2	3:FL:310:TYR:HE1	1.85	0.42
11:Fb:296:TRP:HA	11:Fb:299:PHE:CD2	2.55	0.42
11:Ff:127:LYS:NZ	11:Fg:430:LEU:HD13	2.35	0.42
11:Fl:213:LYS:O	11:Fl:217:ARG:HG3	2.20	0.42
13:G1:102:TYR:HA	13:G1:119:HIS:HA	2.01	0.42
13:G1:335:LEU:HB2	13:G1:342:PHE:CZ	2.55	0.42
13:G2:27:ARG:HH12	4:LG:243:ARG:C	2.28	0.42
13:G3:412:MET:H	13:G3:412:MET:HG2	1.72	0.42
14:G5:137:PRO:HD2	14:G5:161:TYR:CE1	2.55	0.42
14:G6:418:PHE:HB2	14:G6:422:MET:HE3	2.02	0.42
14:G6:718:GLU:OE1	14:G6:718:GLU:N	2.52	0.42
4:GA:11:GLN:N	39:GA:501:GTP:O1B	2.53	0.42
4:GA:202:PHE:HD1	4:GA:268:PRO:HD2	1.84	0.42
4:GA:280:LYS:HD2	4:GA:280:LYS:HA	1.67	0.42
4:GA:425:LEU:O	4:GA:428:LEU:N	2.53	0.42
3:GB:372:THR:HB	3:GB:375:GLN:NE2	2.34	0.42
3:GB:423:GLN:O	3:GB:427:ASP:N	2.53	0.42
4:GC:224:TYR:CE1	39:GC:501:GTP:C5	3.08	0.42
3:GD:174:LYS:HG2	3:GD:205:GLU:OE2	2.20	0.42
3:GD:180:VAL:HG23	3:GD:183:TYR:HD2	1.84	0.42
3:GD:376:GLU:O	3:GD:379:LYS:HG3	2.19	0.42
3:GD:404:ASP:OD2	3:GD:406:MET:HE2	2.19	0.42
4:GE:349:THR:OG1	3:GF:175:VAL:HG13	2.19	0.42
4:GE:415:GLU:O	4:GE:419:SER:N	2.52	0.42
3:GF:51:TYR:CD1	3:GF:61:PRO:HA	2.54	0.42
3:GH:137:HIS:O	3:GH:168:SER:HA	2.19	0.42
4:GI:201:ALA:O	4:GI:267:PHE:HA	2.20	0.42
4:GI:223:THR:O	4:GI:227:LEU:HG	2.20	0.42
4:GI:368:LEU:HD23	4:GI:368:LEU:H	1.85	0.42
3:GJ:26:ASP:OD2	25:N:30:VAL:HG11	2.20	0.42
4:GK:54:SER:N	4:GK:62:VAL:O	2.53	0.42
4:GK:182:VAL:O	4:GK:185:TYR:HB2	2.19	0.42
15:H3:289:ILE:O	15:H3:292:MET:HE3	2.20	0.42
15:H3:311:GLU:HA	15:H3:315:ARG:CG	2.40	0.42
15:H4:37:ARG:NE	15:H4:37:ARG:HA	2.34	0.42
15:H4:309:GLN:HG2	15:H4:310:LYS:N	2.35	0.42
15:H5:245:ASP:HB2	15:H5:249:LYS:NZ	2.34	0.42
4:HA:105:ARG:O	4:HA:109:THR:OG1	2.25	0.42
4:HA:189:LEU:HD11	4:HA:418:PHE:HE1	1.85	0.42
4:HA:346:TRP:CH2	4:HA:435:VAL:HA	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HB:47:ILE:HG12	3:HB:59:TYR:CD2	2.55	0.42
4:HC:315:CYS:O	4:HC:351:PHE:HA	2.20	0.42
3:HF:132:GLY:CA	3:HF:162:ARG:HB3	2.50	0.42
3:HF:137:HIS:O	3:HF:168:SER:HA	2.20	0.42
3:HF:223:GLY:HA2	3:HF:226:ASN:OD1	2.20	0.42
3:HF:249:ASP:O	3:HF:253:LEU:HG	2.20	0.42
4:HG:329:ASN:HA	4:HG:332:ILE:HG12	2.02	0.42
3:HH:100:ASN:ND2	3:HH:398:TYR:HE1	2.17	0.42
4:HI:271:THR:O	4:HI:376:CYS:HA	2.20	0.42
3:HJ:41:ASP:O	3:HJ:45:GLU:N	2.49	0.42
3:HJ:260:PHE:HA	4:HK:406:HIS:CD2	2.54	0.42
4:HK:234:ILE:O	4:HK:238:ILE:HG23	2.20	0.42
4:IA:50:ASN:O	4:IA:64:ARG:NH1	2.53	0.42
3:IB:319:GLY:HA2	3:IB:357:PRO:HG3	2.00	0.42
4:IC:148:GLY:O	4:IC:151:SER:OG	2.30	0.42
4:IC:311:LYS:HE2	4:IC:342:GLN:HB3	2.01	0.42
4:IC:375:VAL:HG13	4:IC:377:MET:SD	2.60	0.42
3:ID:77:ARG:HD3	3:ID:90:PHE:CE2	2.55	0.42
3:ID:386:THR:O	3:ID:390:ARG:N	2.53	0.42
4:IG:201:ALA:HB3	4:IG:267:PHE:HD1	1.85	0.42
4:IG:420:GLU:HA	4:IG:423:GLU:OE2	2.20	0.42
3:IH:134:GLN:HA	3:IH:165:ASN:HB3	2.02	0.42
3:IH:217:LEU:O	3:IH:219:THR:N	2.53	0.42
3:IJ:275:SER:O	3:IJ:279:GLN:NE2	2.53	0.42
4:IK:182:VAL:O	4:IK:185:TYR:HB2	2.19	0.42
4:IM:18:ASN:O	4:IM:22:GLU:HG3	2.19	0.42
4:IM:269:LEU:HD11	4:IM:302:MET:SD	2.59	0.42
18:J:176:MET:HE3	18:J:177:SER:O	2.19	0.42
4:JA:139:HIS:HE1	4:JA:168:GLU:HB3	1.85	0.42
3:JB:4:ILE:HB	3:JB:50:TYR:CE1	2.54	0.42
4:JC:104:ALA:O	4:JC:108:TYR:N	2.44	0.42
4:JC:315:CYS:HG	4:JC:343:PHE:HZ	1.67	0.42
3:JD:30:ILE:HG22	3:JD:31:ASP:O	2.20	0.42
3:JD:318:ARG:HD3	3:JD:358:PRO:HG3	2.01	0.42
3:JD:375:GLN:H	3:JD:375:GLN:CD	2.27	0.42
4:JE:286:LEU:HD23	4:JE:286:LEU:H	1.85	0.42
4:JE:405:VAL:O	4:JE:409:VAL:HG22	2.20	0.42
4:JE:423:GLU:HA	4:JE:426:ALA:HB3	2.02	0.42
3:JF:318:ARG:O	3:JF:364:SER:OG	2.25	0.42
4:JG:387:ALA:O	4:JG:391:LEU:HG	2.20	0.42
4:JI:12:ALA:HB1	39:JI:501:GTP:N3	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:JI:338:LYS:HZ3	4:JI:339:ARG:H	1.66	0.42
3:JJ:77:ARG:HA	3:JJ:77:ARG:HD2	1.91	0.42
3:JJ:111:GLU:OE1	3:JJ:111:GLU:N	2.46	0.42
4:JK:1:MET:HE3	4:JK:50:ASN:ND2	2.34	0.42
4:JK:70:LEU:HD12	4:JK:145:THR:HB	2.01	0.42
4:JK:320:ARG:HG2	4:JK:358:GLN:O	2.20	0.42
4:JK:399:TYR:OH	4:JK:415:GLU:HB2	2.20	0.42
3:JL:148:GLY:O	3:JL:152:ILE:HG12	2.20	0.42
3:JL:382:SER:HB3	3:JL:415:MET:HE1	2.02	0.42
21:K2:172:LEU:HD21	21:K2:210:LYS:HZ3	1.85	0.42
21:K2:476:GLN:HG2	4:KC:163:LYS:HE2	2.02	0.42
21:K3:304:LEU:O	21:K3:308:LYS:HG2	2.20	0.42
21:K4:116:ASP:OD1	21:K4:117:ALA:N	2.53	0.42
21:K4:150:GLN:HA	21:K4:153:LEU:HD12	2.02	0.42
21:K4:337:ALA:O	21:K4:341:ARG:HG3	2.20	0.42
4:KA:50:ASN:OD1	4:KA:51:THR:N	2.53	0.42
4:KA:332:ILE:O	4:KA:336:LYS:HG3	2.20	0.42
4:KC:70:LEU:HG	4:KC:149:PHE:CZ	2.55	0.42
4:KC:155:GLU:O	4:KC:159:VAL:HG13	2.19	0.42
4:KC:327:ASP:OD1	4:KC:328:VAL:N	2.53	0.42
4:KC:363:VAL:H	4:KC:368:LEU:HD21	1.85	0.42
3:KD:300:MET:N	3:KD:300:MET:SD	2.93	0.42
4:KE:8:HIS:CE1	4:KE:138:PHE:CD2	3.08	0.42
4:KE:402:ARG:NH1	31:R1:125:ARG:HH11	2.18	0.42
3:KH:130:LEU:HD13	3:KH:133:PHE:HE1	1.85	0.42
4:KI:273:ALA:HB3	4:KI:274:PRO:HD3	2.02	0.42
3:KJ:350:LYS:HE3	4:KK:181:VAL:H	1.85	0.42
4:KK:3:GLU:N	4:KK:133:GLN:OE1	2.52	0.42
4:KK:336:LYS:HG2	4:KK:351:PHE:CE2	2.55	0.42
3:KL:249:ASP:OD2	3:KL:251:ARG:HB3	2.20	0.42
3:KL:329:GLN:O	3:KL:333:VAL:HG22	2.20	0.42
20:L:245:LYS:HB3	20:L:245:LYS:HE2	1.83	0.42
22:L1:110:ALA:HB2	4:LC:402:ARG:HE	1.85	0.42
22:L2:28:THR:HG22	22:L2:32:ARG:HG3	2.02	0.42
22:L3:125:TYR:HD1	22:L3:136:LEU:HB2	1.85	0.42
22:L3:166:LYS:O	22:L3:170:GLU:HG2	2.19	0.42
22:L3:200:LEU:HD12	22:L3:237:LEU:HD22	2.02	0.42
3:LB:61:PRO:HD3	3:LB:84:ILE:HG13	2.02	0.42
3:LB:105:HIS:O	3:LB:150:LEU:HD21	2.20	0.42
3:LB:117:LEU:HB3	3:LB:121:ARG:NH2	2.35	0.42
3:LB:258:VAL:HG13	4:LC:407:TRP:HZ2	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LB:320:ARG:NH1	3:LB:355:ASP:HB2	2.35	0.42
4:LC:311:LYS:HZ2	4:LC:342:GLN:HB3	1.84	0.42
4:LC:413:MET:HE3	4:LC:413:MET:HA	2.02	0.42
3:LD:34:GLY:HA3	3:LD:58:LYS:NZ	2.35	0.42
3:LD:386:THR:O	3:LD:390:ARG:HB2	2.20	0.42
4:LE:251:ASP:HB3	4:LE:254:GLU:OE1	2.20	0.42
4:LE:323:VAL:HG21	4:LE:355:ILE:HD12	2.02	0.42
4:LE:368:LEU:HD23	4:LE:368:LEU:H	1.85	0.42
4:LG:315:CYS:O	4:LG:351:PHE:HA	2.20	0.42
3:LH:113:VAL:HA	3:LH:116:VAL:HG22	2.02	0.42
4:LI:30:ILE:HD13	4:LI:36:MET:HE3	2.02	0.42
3:LJ:306:ARG:O	3:LJ:306:ARG:NE	2.45	0.42
3:LL:114:ASP:N	3:LL:114:ASP:OD1	2.53	0.42
3:LL:118:ASP:HA	3:LL:121:ARG:CD	2.50	0.42
3:LL:167:PHE:HD1	3:LL:200:TYR:HD2	1.68	0.42
24:M1:48:LYS:NZ	24:M1:49:GLN:O	2.45	0.42
3:MB:60:VAL:HG23	3:MB:86:ARG:NH1	2.33	0.42
3:MB:200:TYR:CE2	3:MB:233:MET:HE1	2.55	0.42
3:MB:217:LEU:O	3:MB:219:THR:N	2.53	0.42
4:MC:99:ALA:HB3	4:MC:144:GLY:O	2.20	0.42
4:MC:104:ALA:HB1	4:MC:108:TYR:HD2	1.84	0.42
4:MC:208:ALA:H	4:MC:304:LYS:NZ	2.18	0.42
4:MC:245:ASP:OD1	4:MC:249:ASN:ND2	2.47	0.42
4:MC:368:LEU:HD23	4:MC:368:LEU:H	1.85	0.42
3:MD:282:ARG:HE	3:MD:288:GLU:CD	2.28	0.42
4:MG:176:GLN:NE2	4:MG:207:GLU:OE2	2.52	0.42
3:MH:374:ILE:HG22	3:MH:378:PHE:CE2	2.54	0.42
3:MJ:269:GLY:HA3	3:MJ:367:PHE:HB3	2.01	0.42
4:MK:6:SER:HA	4:MK:136:LEU:HB2	2.01	0.42
4:MK:319:TYR:HA	4:MK:374:ALA:O	2.20	0.42
4:MK:419:SER:O	4:MK:422:ARG:HG2	2.20	0.42
3:ML:3:GLU:HB2	3:ML:62:ARG:NH2	2.35	0.42
3:ML:188:SER:O	3:ML:192:LEU:HG	2.20	0.42
4:MM:351:PHE:O	4:MM:352:LYS:HD2	2.19	0.42
4:NA:13:GLY:HA2	4:NA:16:ILE:HG12	2.02	0.42
3:ND:30:ILE:HG13	3:ND:36:TYR:HD1	1.85	0.42
3:ND:148:GLY:O	3:ND:152:ILE:HG12	2.19	0.42
3:ND:394:PHE:HA	3:ND:397:TRP:HZ3	1.84	0.42
4:NE:23:LEU:HD12	4:NE:232:GLY:HA3	2.02	0.42
4:NE:166:LYS:N	4:NE:199:ASP:OD2	2.53	0.42
4:NE:319:TYR:N	4:NE:354:GLY:O	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NF:47:ILE:HG13	3:NF:51:TYR:HB2	2.02	0.42
3:NF:51:TYR:CD1	3:NF:61:PRO:HA	2.55	0.42
3:NH:318:ARG:C	3:NH:321:MET:HE1	2.45	0.42
3:NH:334:GLN:O	3:NH:338:SER:OG	2.27	0.42
3:NJ:47:ILE:HG12	3:NJ:59:TYR:CD2	2.55	0.42
3:NJ:148:GLY:O	3:NJ:152:ILE:HG12	2.20	0.42
4:NK:192:HIS:CE1	4:NK:193:THR:HG23	2.55	0.42
4:OA:122:ILE:O	4:OA:126:ALA:N	2.48	0.42
4:OA:386:GLU:HA	4:OA:389:ALA:HB3	2.01	0.42
3:OB:5:VAL:HB	3:OB:133:PHE:CE1	2.55	0.42
3:OB:48:ASN:HA	3:OB:51:TYR:O	2.19	0.42
3:OB:66:VAL:HG13	3:OB:147:MET:SD	2.60	0.42
3:OB:292:GLN:HA	3:OB:295:ASP:OD2	2.20	0.42
4:OC:51:THR:HG23	4:OC:52:PHE:HD2	1.85	0.42
3:OD:51:TYR:CD1	3:OD:61:PRO:HA	2.55	0.42
4:OE:272:TYR:CZ	4:OE:274:PRO:HG2	2.55	0.42
4:OG:12:ALA:HB1	39:OG:501:GTP:N3	2.34	0.42
4:OG:202:PHE:CD1	4:OG:268:PRO:HD2	2.55	0.42
3:OH:249:ASP:O	3:OH:253:LEU:HG	2.19	0.42
3:OJ:27:GLU:OE1	3:OJ:241:ARG:NH1	2.53	0.42
3:OJ:174:LYS:HG2	3:OJ:205:GLU:OE2	2.20	0.42
3:OJ:178:THR:HB	3:OJ:181:GLU:HB2	2.01	0.42
3:OJ:292:GLN:HA	3:OJ:295:ASP:OD2	2.20	0.42
4:OK:171:ILE:HD11	4:OK:206:ASN:N	2.34	0.42
3:OL:32:PRO:C	3:OL:83:GLN:HE21	2.26	0.42
29:P1:355:ASP:O	29:P1:356:ILE:HD13	2.20	0.42
29:P1:431:ARG:NH1	29:P1:490:LEU:O	2.49	0.42
29:P2:233:ASN:OD1	29:P2:235:LYS:HG2	2.20	0.42
29:P2:428:ASP:N	29:P2:428:ASP:OD1	2.52	0.42
29:P3:298:LEU:HA	29:P3:305:PHE:HB2	2.02	0.42
4:PA:79:ARG:NH2	4:PA:94:THR:HB	2.34	0.42
4:PA:216:ASN:OD1	4:PA:217:LEU:N	2.53	0.42
3:PB:155:ILE:HA	3:PB:158:GLU:HB2	2.02	0.42
3:PB:376:GLU:O	3:PB:380:ARG:HG3	2.19	0.42
4:PC:103:TYR:HB2	4:PC:186:ASN:HB2	2.01	0.42
4:PC:255:PHE:O	4:PC:259:LEU:HB2	2.20	0.42
4:PE:186:ASN:OD1	4:PE:187:SER:N	2.53	0.42
4:PE:220:GLU:O	4:PE:221:ARG:NE	2.51	0.42
3:PF:7:LEU:HB2	3:PF:135:LEU:HG	2.02	0.42
3:PF:172:SER:OG	3:PF:205:GLU:OE2	2.20	0.42
3:PH:39:ASP:OD1	3:PH:39:ASP:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:PH:58:LYS:HE2	3:QH:281:TYR:CE1	2.55	0.42
4:PI:75:VAL:HA	4:PI:78:VAL:HG22	2.02	0.42
4:PI:102:ASN:HA	4:PI:408:TYR:OH	2.20	0.42
4:PI:196:GLU:HG2	4:PI:197:HIS:ND1	2.35	0.42
4:PI:252:LEU:HA	4:PI:255:PHE:CD2	2.55	0.42
4:PI:316:CYS:N	4:PI:378:LEU:O	2.35	0.42
3:PJ:6:HIS:HB2	3:PJ:134:GLN:NE2	2.35	0.42
3:PL:329:GLN:O	3:PL:333:VAL:HG12	2.20	0.42
4:PM:36:MET:HG3	4:PM:41:THR:OG1	2.20	0.42
4:PM:95:GLY:C	4:PM:96:LYS:HD3	2.44	0.42
4:PM:108:TYR:CD2	4:PM:413:MET:HE1	2.55	0.42
4:PM:216:ASN:ND2	4:PM:275:VAL:HG23	2.34	0.42
27:Q:88:LYS:HE3	27:Q:88:LYS:HB3	1.76	0.42
30:Q1:1362:GLU:O	30:Q1:1365:ALA:HB3	2.20	0.42
30:Q1:1407:LEU:HD21	30:Q1:1515:LEU:C	2.45	0.42
30:Q1:1426:MET:SD	30:Q1:1426:MET:N	2.90	0.42
30:Q3:1420:ILE:O	30:Q3:1420:ILE:HG13	2.20	0.42
30:Q3:1434:PRO:HA	30:Q3:1437:TYR:HB2	2.02	0.42
30:Q3:1491:PHE:O	30:Q3:1495:GLU:HG2	2.20	0.42
3:QB:141:GLY:HA3	39:QB:501:GTP:H5”	2.00	0.42
3:QB:345:ILE:HD11	4:QC:181:VAL:HG11	2.01	0.42
4:QC:207:GLU:HB2	4:QC:304:LYS:HZ1	1.83	0.42
3:QD:296:ALA:HA	3:QD:299:MET:HE3	2.02	0.42
4:QE:346:TRP:HH2	4:QE:435:VAL:HA	1.85	0.42
3:QF:239:CYS:SG	3:QF:316:VAL:HG11	2.60	0.42
4:QK:208:ALA:N	4:QK:304:LYS:HZ1	2.17	0.42
3:QL:317:PHE:HB3	3:QL:321:MET:HE3	2.02	0.42
4:QM:34:GLY:HA2	4:QM:86:LEU:HD21	2.02	0.42
4:QM:125:LEU:HD13	4:QM:128:LEU:HD21	2.01	0.42
27:R:166:GLN:HB3	27:R:170:ARG:NH1	2.35	0.42
27:R:259:VAL:HG12	27:R:272:ARG:HB3	2.02	0.42
31:R3:118:ARG:HH11	31:R3:142:ARG:HB3	1.85	0.42
4:RC:115:VAL:HG21	4:RC:156:ARG:HE	1.85	0.42
4:RC:143:GLY:O	4:RC:147:SER:OG	2.30	0.42
4:RC:202:PHE:CD1	4:RC:268:PRO:HD2	2.55	0.42
4:RC:392:ASP:HB2	4:RC:422:ARG:CZ	2.50	0.42
3:RD:39:ASP:OD1	3:RD:39:ASP:N	2.53	0.42
4:RE:223:THR:OG1	4:RE:225:THR:OG1	2.33	0.42
3:RH:150:LEU:O	3:RH:153:SER:OG	2.36	0.42
3:RH:238:THR:HA	3:RH:241:ARG:HG2	2.02	0.42
3:RH:295:ASP:HB2	3:RH:298:ASN:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:RI:288:VAL:HG23	4:RI:319:TYR:CE2	2.54	0.42
4:RK:172:TYR:HB2	4:RK:203:MET:HB3	2.02	0.42
4:RK:318:LEU:H	4:RK:375:VAL:HG23	1.85	0.42
3:RL:275:SER:HA	3:RL:276:ARG:HH21	1.85	0.42
4:SC:124:LYS:HZ3	4:SC:125:LEU:CD2	2.33	0.42
4:SC:212:ILE:HG23	4:SC:216:ASN:OD1	2.19	0.42
3:SD:253:LEU:O	3:SD:257:MET:HG2	2.19	0.42
4:SE:392:ASP:HB2	4:SE:422:ARG:NH2	2.35	0.42
3:SH:372:THR:HG21	3:SH:426:GLN:HB3	2.01	0.42
4:SI:285:GLN:HE22	4:SI:287:SER:HB3	1.85	0.42
4:SI:368:LEU:HD23	4:SI:368:LEU:H	1.84	0.42
3:SJ:19:LYS:NZ	3:SJ:223:GLY:O	2.52	0.42
3:SJ:173:PRO:HB3	3:SJ:380:ARG:NH1	2.34	0.42
3:SJ:289:LEU:O	3:SJ:293:MET:N	2.44	0.42
4:SK:202:PHE:CD1	4:SK:268:PRO:HD2	2.55	0.42
4:SM:1:MET:SD	4:SM:2:ARG:N	2.93	0.42
4:SM:11:GLN:HG3	39:SM:501:GTP:O1B	2.20	0.42
4:SM:264:ARG:O	4:SM:266:HIS:ND1	2.49	0.42
4:SM:311:LYS:N	4:SM:382:THR:OG1	2.48	0.42
4:TC:283:HIS:CD2	4:TC:283:HIS:H	2.38	0.42
3:TD:183:TYR:OH	3:TD:393:ALA:O	2.29	0.42
4:TG:132:LEU:O	4:TG:132:LEU:HD12	2.20	0.42
4:TG:283:HIS:H	4:TG:283:HIS:CD2	2.38	0.42
4:TI:70:LEU:HB2	4:TI:145:THR:HG21	2.02	0.42
4:TI:188:ILE:HG22	4:TI:421:ALA:HB1	2.02	0.42
3:TJ:216:LYS:HB3	3:TJ:276:ARG:NH2	2.34	0.42
3:TL:15:GLN:NE2	3:TL:222:TYR:CD2	2.88	0.42
3:TL:182:PRO:HB2	3:TL:388:MET:HE1	2.02	0.42
4:TM:176:GLN:NE2	4:TM:177:VAL:HG23	2.35	0.42
4:UA:319:TYR:HB2	4:UA:355:ILE:HD13	2.00	0.42
4:UC:161:TYR:HB3	4:UC:164:LYS:HZ3	1.85	0.42
3:UD:48:ASN:HA	3:UD:51:TYR:O	2.19	0.42
3:UD:101:TRP:HB2	3:UD:184:ASN:HD22	1.85	0.42
3:UD:299:MET:HE1	3:UD:305:PRO:HD2	2.02	0.42
4:UE:70:LEU:HB3	4:UE:97:GLU:O	2.20	0.42
4:UE:114:ILE:O	4:UE:118:VAL:HG23	2.20	0.42
4:UE:255:PHE:O	4:UE:259:LEU:HB2	2.20	0.42
4:UE:346:TRP:HH2	4:UE:435:VAL:HA	1.85	0.42
3:UF:73:MET:HA	3:UF:76:VAL:HG22	2.02	0.42
4:UG:216:ASN:HD21	4:UG:275:VAL:HG23	1.84	0.42
4:UI:389:ALA:HA	4:UI:392:ASP:OD2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UK:252:LEU:HA	4:UK:255:PHE:CD2	2.55	0.42
3:UL:211:CYS:SG	3:UL:215:LEU:HD23	2.59	0.42
33:V:541:LYS:HA	33:V:541:LYS:HD3	1.82	0.42
4:VA:245:ASP:CB	4:VA:249:ASN:HD21	2.33	0.42
3:VB:21:TRP:CZ2	3:VB:63:ALA:HB2	2.55	0.42
3:VB:357:PRO:HB3	3:VB:362:LYS:HA	2.01	0.42
4:VC:11:GLN:HG2	39:VC:501:GTP:O1B	2.19	0.42
3:VD:268:PRO:HD2	3:VD:301:ALA:HB2	2.02	0.42
4:VE:265:ILE:HA	4:VE:267:PHE:CE2	2.55	0.42
3:VF:182:PRO:HB3	3:VF:381:ILE:HD11	2.02	0.42
3:VF:299:MET:HE1	3:VF:305:PRO:HD2	2.02	0.42
4:VG:285:GLN:NE2	4:VG:286:LEU:O	2.53	0.42
3:VH:21:TRP:CZ3	3:VH:51:TYR:HE1	2.30	0.42
3:VH:121:ARG:HA	3:VH:124:ALA:HB3	2.02	0.42
3:VH:324:LYS:HD2	4:VI:221:ARG:HA	2.01	0.42
4:VI:99:ALA:HA	4:VI:105:ARG:HE	1.85	0.42
4:VI:161:TYR:O	4:VI:166:LYS:NZ	2.47	0.42
4:VI:421:ALA:HA	4:VI:424:ASP:HB2	2.02	0.42
4:VK:212:ILE:HG13	4:VK:215:ARG:HH21	1.84	0.42
3:WD:232:THR:HG22	3:WD:270:PHE:CD1	2.55	0.42
3:WD:318:ARG:C	3:WD:321:MET:HE1	2.45	0.42
4:WE:154:MET:HA	4:WE:157:LEU:HG	2.01	0.42
4:WE:202:PHE:CD1	4:WE:268:PRO:HD2	2.55	0.42
4:WG:230:LEU:O	4:WG:234:ILE:HG12	2.19	0.42
3:WH:324:LYS:HG3	4:WI:221:ARG:NH1	2.35	0.42
3:WH:343:GLU:OE1	3:WH:343:GLU:N	2.53	0.42
4:WI:151:SER:O	4:WI:154:MET:HG3	2.20	0.42
4:WI:196:GLU:HG2	4:WI:197:HIS:ND1	2.35	0.42
4:WI:420:GLU:HA	4:WI:423:GLU:OE2	2.20	0.42
3:WJ:111:GLU:HG2	3:WJ:112:LEU:HD12	2.02	0.42
4:WK:319:TYR:HB2	4:WK:355:ILE:HD13	2.01	0.42
3:WL:77:ARG:O	3:WL:77:ARG:NH1	2.44	0.42
34:XA:14:LEU:HD13	34:XA:25:TRP:CD1	2.55	0.42
34:XB:1:MET:HE2	34:XB:67:LYS:HD3	2.01	0.42
34:XC:81:LYS:HB2	34:XC:129:TRP:CD2	2.55	0.42
34:XE:50:GLU:OE1	34:XE:159:ASN:ND2	2.46	0.42
34:XG:84:LYS:HG2	35:XM:238:CYS:HA	2.02	0.42
35:XI:69:LEU:HA	35:XI:79:ALA:N	2.35	0.42
35:XL:157:GLN:OE1	35:XL:212:THR:HA	2.20	0.42
37:YB:65:ILE:HG13	37:YB:66:LEU:HD22	2.01	0.42
37:YC:25:PHE:CE1	37:YC:66:LEU:HD23	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:YD:43:ILE:O	37:YD:43:ILE:HG13	2.19	0.42
37:YF:125:LEU:HB3	37:YF:130:ALA:HB2	2.02	0.42
37:YI:90:THR:OG1	37:YI:162:VAL:HG11	2.20	0.42
37:YL:12:GLU:O	37:YL:15:TYR:HB3	2.20	0.42
37:YL:149:LYS:O	37:YL:152:ILE:HG22	2.20	0.42
37:YV:64:ARG:HA	37:YV:67:ILE:HG12	2.02	0.42
37:YW:90:THR:N	37:YW:93:THR:OG1	2.53	0.42
36:Z:289:GLU:OE2	36:Z:296:LYS:NZ	2.52	0.42
1:A:66:GLU:HA	1:A:69:MET:HG3	2.02	0.41
1:A:108:LYS:HA	1:A:111:ARG:HD2	2.01	0.41
1:A:277:GLN:HE22	1:A:280:ARG:NH2	2.18	0.41
1:A:294:LYS:HG3	1:A:298:ARG:CZ	2.50	0.41
2:A1:363:LYS:HD2	14:G4:182:GLY:CA	2.46	0.41
2:A1:368:ARG:HH22	2:A2:23:GLN:HB3	1.84	0.41
2:A2:237:ALA:O	2:A2:241:LEU:HD23	2.20	0.41
2:A2:311:LYS:HE3	2:A3:200:PHE:CE1	2.55	0.41
2:A3:348:VAL:HG12	2:A3:352:LYS:NZ	2.35	0.41
2:A4:32:SER:HB3	2:A4:36:ARG:NH2	2.35	0.41
3:AB:52:ASN:CG	3:AB:62:ARG:HD3	2.44	0.41
4:AC:75:VAL:HA	4:AC:78:VAL:HG12	2.01	0.41
4:AC:107:HIS:CD2	4:AC:152:LEU:HB2	2.55	0.41
4:AE:108:TYR:O	4:AE:112:LYS:NZ	2.35	0.41
4:AE:346:TRP:CD1	4:AE:346:TRP:N	2.87	0.41
3:AF:11:GLN:HG3	39:AF:501:GTP:O5'	2.19	0.41
3:AF:91:VAL:HG11	3:AF:116:VAL:HG12	2.02	0.41
4:AG:70:LEU:HB2	4:AG:145:THR:HG21	2.02	0.41
3:AH:130:LEU:HB2	3:AH:162:ARG:HH11	1.85	0.41
3:AH:378:PHE:CE1	3:AH:419:VAL:HA	2.54	0.41
4:AI:3:GLU:CD	4:AI:132:LEU:H	2.28	0.41
4:AI:255:PHE:O	4:AI:259:LEU:HB2	2.19	0.41
4:AK:182:VAL:O	4:AK:185:TYR:HB2	2.20	0.41
3:AL:6:HIS:HE1	3:AL:8:GLN:HB2	1.85	0.41
4:AM:212:ILE:HG12	4:AM:215:ARG:NH2	2.34	0.41
4:AM:368:LEU:HD23	4:AM:368:LEU:H	1.84	0.41
1:B:324:TYR:HA	1:B:327:GLU:CD	2.44	0.41
5:B2:299:ARG:HA	5:B2:302:GLU:OE2	2.20	0.41
5:B2:334:THR:O	5:B2:338:LEU:HG	2.20	0.41
5:B3:100:GLU:OE2	8:D3:161:ARG:HG3	2.20	0.41
5:B3:123:ARG:NE	5:B3:123:ARG:HA	2.35	0.41
5:B4:27:ASN:O	5:B4:31:GLN:HG2	2.20	0.41
5:B6:142:GLU:HA	5:B6:145:GLU:CD	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B6:180:MET:O	5:B6:183:LEU:HB2	2.19	0.41
5:B7:119:LEU:O	5:B7:122:SER:OG	2.25	0.41
5:B7:132:PRO:HD2	5:B7:268:ARG:HH22	1.85	0.41
5:B7:245:LEU:O	5:B7:249:GLN:HG2	2.20	0.41
5:B8:333:GLN:HA	5:B8:336:TYR:CD2	2.50	0.41
4:BC:30:ILE:HG13	4:BC:53:PHE:HE2	1.85	0.41
4:BC:36:MET:HG3	4:BC:41:THR:OG1	2.20	0.41
4:BC:66:VAL:HG12	4:BC:68:VAL:HG13	2.01	0.41
4:BC:331:ALA:O	4:BC:335:ILE:HG12	2.20	0.41
3:BD:31:ASP:OD1	3:BD:31:ASP:N	2.53	0.41
3:BD:73:MET:HE1	3:BD:92:PHE:CG	2.55	0.41
3:BD:130:LEU:HB2	3:BD:162:ARG:HH11	1.84	0.41
4:BE:53:PHE:O	4:BE:64:ARG:NH1	2.52	0.41
4:BE:386:GLU:HA	4:BE:389:ALA:HB3	2.02	0.41
3:BF:224:ASP:O	3:BF:228:LEU:HG	2.20	0.41
3:BF:374:ILE:O	3:BF:377:LEU:HB2	2.20	0.41
4:BG:257:THR:HA	3:BH:397:TRP:CZ2	2.55	0.41
4:BI:115:VAL:HG11	4:BI:152:LEU:HD22	2.02	0.41
4:BI:385:ALA:HA	4:BI:388:TRP:HE3	1.85	0.41
3:BJ:4:ILE:HB	3:BJ:50:TYR:CE1	2.55	0.41
3:BJ:312:THR:OG1	3:BJ:370:ASN:HB3	2.20	0.41
3:BJ:405:GLU:HA	3:BJ:408:PHE:HD2	1.85	0.41
4:BK:176:GLN:NE2	4:BK:177:VAL:HG23	2.35	0.41
4:BK:251:ASP:HB3	4:BK:254:GLU:OE1	2.20	0.41
3:BL:51:TYR:HB3	3:BL:59:TYR:HB3	2.02	0.41
3:BL:318:ARG:HG3	3:BL:354:CYS:SG	2.60	0.41
4:BM:121:ARG:O	4:BM:124:LYS:HG2	2.20	0.41
6:C:232:SER:HA	6:C:235:ARG:NE	2.35	0.41
6:C:266:HIS:O	6:C:270:GLU:HG2	2.20	0.41
6:C:360:LEU:HD12	6:C:361:ARG:N	2.35	0.41
7:C2:400:LEU:HD12	7:C2:401:ASP:N	2.35	0.41
7:C4:370:GLN:HA	7:C4:373:PHE:CD2	2.55	0.41
7:C6:248:ARG:NE	7:Ca:197:GLU:OE1	2.49	0.41
7:C7:110:SER:O	7:C7:114:ARG:HG3	2.20	0.41
7:C8:485:ARG:HD3	7:C8:485:ARG:H	1.85	0.41
7:C9:181:LEU:HD22	7:C9:237:LEU:HD13	2.02	0.41
7:C9:447:SER:O	7:C9:451:THR:HG23	2.20	0.41
3:CB:304:ASP:O	3:CB:307:HIS:ND1	2.41	0.41
4:CC:71:GLU:CD	4:CC:72:PRO:HD2	2.45	0.41
4:CC:182:VAL:O	4:CC:185:TYR:HB2	2.20	0.41
4:CC:252:LEU:HA	4:CC:255:PHE:HB2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CG:148:GLY:O	4:CG:151:SER:OG	2.37	0.41
4:CG:421:ALA:HA	4:CG:424:ASP:HB2	2.00	0.41
4:CG:438:ASP:C	3:CH:391:ARG:HH12	2.27	0.41
3:CH:407:GLU:HA	3:CH:410:GLU:OE2	2.19	0.41
4:CI:70:LEU:HB3	4:CI:97:GLU:O	2.20	0.41
4:CI:388:TRP:CD1	4:CI:391:LEU:HD12	2.54	0.41
4:CK:323:VAL:HG22	4:CK:373:ARG:HG2	2.02	0.41
3:CL:133:PHE:CZ	3:CL:164:MET:HA	2.55	0.41
3:CL:272:PRO:HA	3:CL:292:GLN:OE1	2.20	0.41
3:CL:378:PHE:CE1	3:CL:419:VAL:HG22	2.55	0.41
7:Ca:365:LEU:HD12	7:Ca:452:LYS:NZ	2.35	0.41
7:Cc:296:VAL:HG12	7:Cc:298:GLU:OE1	2.20	0.41
7:Cc:420:LEU:O	7:Cc:424:VAL:HG23	2.20	0.41
6:D:378:LEU:HD21	12:G:97:ARG:NE	2.35	0.41
8:D3:116:GLU:HB3	8:D3:119:ARG:HH21	1.84	0.41
8:D3:320:TYR:HA	8:D3:323:ARG:HH22	1.84	0.41
8:D4:376:ARG:O	8:D4:379:SER:OG	2.30	0.41
8:D7:117:LEU:HB3	8:D7:215:TRP:HB2	2.01	0.41
8:D7:167:LEU:HD12	8:D7:167:LEU:O	2.19	0.41
8:D7:332:GLN:HA	8:D8:78:ARG:NH2	2.35	0.41
8:D7:372:ASN:ND2	8:D8:102:LYS:HE3	2.34	0.41
8:D7:381:VAL:HA	8:D7:384:LEU:HD12	2.01	0.41
8:D9:342:ALA:O	8:D9:346:LYS:HG2	2.20	0.41
8:D9:431:MET:H	8:D9:431:MET:CE	2.32	0.41
4:DA:103:TYR:HB2	4:DA:186:ASN:HB2	2.02	0.41
4:DA:404:PHE:HA	4:DA:406:HIS:CD2	2.55	0.41
4:DA:420:GLU:HA	4:DA:423:GLU:OE2	2.20	0.41
4:DC:10:GLY:HA2	4:DC:145:THR:OG1	2.19	0.41
4:DC:251:ASP:HB3	4:DC:254:GLU:OE1	2.20	0.41
4:DC:402:ARG:HB2	4:DC:405:VAL:HG11	2.01	0.41
3:DD:276:ARG:H	3:DD:276:ARG:HG3	1.54	0.41
3:DF:324:LYS:HD3	4:DG:210:TYR:HE1	1.85	0.41
4:DG:56:THR:HB	4:EG:285:GLN:HG3	2.02	0.41
4:DG:182:VAL:O	4:DG:185:TYR:HB2	2.20	0.41
4:DG:207:GLU:HB2	4:DG:304:LYS:HZ1	1.84	0.41
4:DG:208:ALA:HB3	4:DG:302:MET:HA	2.02	0.41
4:DG:272:TYR:CE1	4:DG:374:ALA:HB1	2.55	0.41
4:DK:387:ALA:O	4:DK:391:LEU:HG	2.20	0.41
8:Da:58:GLN:HG3	11:Fh:384:ALA:HB1	2.01	0.41
9:E:576:LYS:HB2	9:E:647:ASN:OD1	2.19	0.41
4:EA:105:ARG:O	4:EA:109:THR:OG1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:EA:175:PRO:HA	4:EA:390:ARG:CZ	2.50	0.41
4:EA:316:CYS:N	4:EA:378:LEU:O	2.53	0.41
3:ED:246:LEU:HB3	3:ED:353:VAL:O	2.20	0.41
4:EE:160:ASP:OD1	4:EE:161:TYR:N	2.52	0.41
4:EE:174:ALA:HB3	4:EE:177:VAL:O	2.20	0.41
4:EE:206:ASN:OD1	4:EE:206:ASN:N	2.52	0.41
4:EE:329:ASN:OD1	4:EE:330:ALA:N	2.52	0.41
3:EF:95:SER:OG	3:EF:108:GLU:HG2	2.19	0.41
3:EF:137:HIS:O	3:EF:168:SER:HA	2.20	0.41
4:EG:316:CYS:N	4:EG:378:LEU:O	2.34	0.41
3:EH:148:GLY:O	3:EH:152:ILE:HG12	2.20	0.41
3:EH:217:LEU:HD11	3:EH:220:PRO:HB3	2.01	0.41
3:EH:319:GLY:O	3:EH:355:ASP:HA	2.20	0.41
4:EI:219:ILE:CD1	15:H5:299:THR:HG22	2.49	0.41
4:EI:326:LYS:HD2	3:EJ:208:TYR:CE2	2.55	0.41
3:EJ:21:TRP:CZ2	3:EJ:63:ALA:HB2	2.55	0.41
3:EJ:106:TYR:HB2	3:EJ:401:GLU:OE2	2.20	0.41
4:EK:84:ARG:HA	4:EK:87:PHE:HD2	1.85	0.41
4:EK:272:TYR:CE1	4:EK:374:ALA:HB1	2.54	0.41
9:F:332:ALA:HB2	4:HK:80:THR:HG22	2.02	0.41
11:F1:402:ARG:HD2	11:F1:407:LEU:CA	2.49	0.41
11:F1:460:ASN:O	11:F1:464:ILE:HG12	2.19	0.41
11:F2:142:LEU:HD23	11:F2:142:LEU:O	2.20	0.41
11:F3:217:ARG:HB3	11:F3:335:GLN:HE22	1.85	0.41
11:F3:263:ILE:HA	11:F3:266:ASN:HD21	1.85	0.41
11:F3:301:ASN:O	11:F3:305:ARG:HG2	2.20	0.41
11:F3:454:GLU:O	11:F3:458:LYS:HG2	2.20	0.41
11:F5:145:ARG:CZ	11:F6:410:ASP:HB3	2.50	0.41
11:F6:167:ASN:O	11:F6:170:MET:HB2	2.20	0.41
11:F8:448:LYS:HA	11:F8:451:LEU:HG	2.02	0.41
11:F9:345:ALA:O	11:F9:348:SER:N	2.53	0.41
4:FA:180:ALA:HB1	4:FA:182:VAL:HG12	2.01	0.41
4:FA:182:VAL:O	4:FA:185:TYR:HB2	2.20	0.41
4:FA:202:PHE:CD1	4:FA:268:PRO:HD2	2.55	0.41
4:FA:229:ARG:HH21	4:FA:363:VAL:HG13	1.85	0.41
4:FE:70:LEU:HA	4:FE:95:GLY:HA3	2.01	0.41
4:FG:34:GLY:HA3	4:FG:60:LYS:HD2	2.02	0.41
4:FG:161:TYR:HB3	4:FG:164:LYS:NZ	2.35	0.41
3:FH:101:TRP:HB3	3:FH:398:TYR:OH	2.19	0.41
3:FJ:77:ARG:HA	3:FJ:77:ARG:HD2	1.84	0.41
3:FJ:173:PRO:O	3:FJ:380:ARG:NH2	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FJ:240:LEU:HA	3:FJ:248:ALA:HB1	2.02	0.41
4:FK:145:THR:HG1	39:FK:501:GTP:PB	2.43	0.41
4:FK:315:CYS:O	4:FK:351:PHE:HA	2.20	0.41
3:FL:32:PRO:O	3:FL:83:GLN:NE2	2.47	0.41
11:Fa:156:LEU:HA	11:Fa:156:LEU:HD23	1.83	0.41
11:Fa:242:ASP:HB3	11:Fa:310:MET:CE	2.50	0.41
11:Fa:428:GLN:O	11:Fa:431:LYS:HG2	2.20	0.41
11:Fb:433:ARG:NH2	11:Fc:119:ASP:C	2.78	0.41
11:Fc:162:ARG:HB2	11:Fc:311:ARG:NH2	2.34	0.41
11:Fc:173:LEU:HD21	11:Fc:318:ARG:NH1	2.34	0.41
11:Fc:201:ARG:HH22	11:Fc:464:ILE:HB	1.85	0.41
11:Fe:449:SER:O	11:Fe:452:GLU:HG3	2.20	0.41
11:Ff:201:ARG:CZ	11:Ff:206:LEU:HA	2.50	0.41
11:Ff:426:THR:O	11:Ff:429:THR:OG1	2.33	0.41
11:Fk:161:ASP:O	11:Fk:165:THR:HG23	2.20	0.41
11:Fk:179:CYS:O	11:Fk:182:GLU:HG2	2.19	0.41
11:Fk:292:ILE:HB	11:Fk:293:PRO:HD3	2.02	0.41
11:Fk:350:GLU:HG2	11:Fk:354:LYS:HZ2	1.85	0.41
11:Fk:360:GLN:HA	11:Fk:363:LYS:HG2	2.02	0.41
12:G:50:THR:O	12:G:54:ILE:HG12	2.20	0.41
12:G:207:GLU:O	12:G:211:ALA:N	2.53	0.41
12:G:297:GLU:HA	12:G:300:GLN:HB3	2.01	0.41
12:G:324:GLU:O	12:G:328:LYS:NZ	2.37	0.41
13:G1:488:SER:HA	13:G1:523:TYR:HD1	1.85	0.41
13:G2:133:VAL:N	13:G2:147:LYS:HZ3	2.18	0.41
13:G2:382:PRO:HA	13:G2:383:PRO:HD3	1.93	0.41
13:G3:391:GLU:HG2	13:G3:392:ASP:N	2.35	0.41
14:G4:59:VAL:O	14:G4:59:VAL:HG13	2.20	0.41
14:G4:284:LEU:HD12	14:G4:347:TRP:CD1	2.55	0.41
14:G4:380:PRO:HA	14:G4:381:PRO:HD3	1.96	0.41
14:G4:481:LEU:HD11	14:G4:484:SER:HB2	2.02	0.41
14:G4:653:LEU:HD23	14:G4:658:ILE:HG13	2.02	0.41
14:G5:576:VAL:O	14:G5:734:ARG:NH2	2.53	0.41
14:G6:540:PHE:O	14:G6:543:SER:OG	2.33	0.41
3:GB:386:THR:O	3:GB:390:ARG:N	2.53	0.41
3:GD:139:LEU:HD21	3:GD:170:VAL:HG22	2.02	0.41
3:GD:313:VAL:HG23	3:GD:349:VAL:HA	2.01	0.41
4:GE:321:GLY:HA3	4:GE:372:GLN:O	2.19	0.41
3:GF:46:ARG:NH2	3:GF:48:ASN:HB2	2.35	0.41
3:GF:267:MET:HG3	3:GF:369:GLY:O	2.20	0.41
4:GG:53:PHE:HB3	4:GG:61:HIS:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:GG:226:ASN:ND2	4:GG:367:ASP:OD2	2.52	0.41
4:GG:296:PHE:CE2	4:GG:335:ILE:HG21	2.55	0.41
3:GJ:170:VAL:N	3:GJ:202:ILE:O	2.36	0.41
3:GJ:172:SER:HB3	3:GJ:175:VAL:O	2.20	0.41
4:GK:120:ASP:C	4:GK:124:LYS:HZ3	2.27	0.41
15:H3:29:TYR:O	15:H3:29:TYR:HD1	2.03	0.41
4:HA:140:SER:HA	4:HA:170:ALA:HB1	2.01	0.41
3:HB:375:GLN:H	3:HB:375:GLN:CD	2.28	0.41
4:HE:287:SER:N	4:HE:290:GLU:OE2	2.52	0.41
4:HE:319:TYR:HB2	4:HE:355:ILE:HD13	2.02	0.41
4:HE:320:ARG:HG2	4:HE:358:GLN:O	2.20	0.41
4:HG:260:VAL:O	3:HH:397:TRP:HH2	2.03	0.41
4:HG:396:ASP:OD1	4:HG:397:LEU:HG	2.19	0.41
4:HG:425:LEU:O	4:HG:428:LEU:N	2.53	0.41
3:HH:361:LEU:HD11	3:HH:364:SER:HB3	2.01	0.41
3:HJ:102:ALA:HA	3:HJ:105:HIS:HB3	2.01	0.41
4:HK:12:ALA:HB1	39:HK:501:GTP:N3	2.34	0.41
4:HK:196:GLU:HG2	4:HK:197:HIS:ND1	2.35	0.41
3:HL:302:ALA:HB1	3:HL:377:LEU:HD11	2.01	0.41
3:HL:374:ILE:HD12	3:HL:374:ILE:H	1.84	0.41
17:I3:49:PHE:HD2	17:I3:53:ARG:NH2	2.18	0.41
4:IA:224:TYR:HB3	4:IA:228:ASN:ND2	2.34	0.41
4:IA:420:GLU:HA	4:IA:423:GLU:OE2	2.20	0.41
3:IB:171:PRO:HG3	3:IB:181:GLU:OE2	2.20	0.41
3:IB:175:VAL:HG22	3:IB:177:ASP:H	1.84	0.41
4:IC:320:ARG:N	4:IC:374:ALA:O	2.47	0.41
4:IC:370:LYS:HG3	4:IC:370:LYS:O	2.20	0.41
3:ID:394:PHE:HA	3:ID:397:TRP:HZ3	1.85	0.41
4:IE:230:LEU:O	4:IE:234:ILE:HG12	2.20	0.41
3:IF:12:CYS:HB3	39:IF:501:GTP:H5'	2.02	0.41
4:IG:70:LEU:HD23	4:IG:145:THR:HB	2.01	0.41
4:IG:166:LYS:N	4:IG:199:ASP:OD2	2.53	0.41
4:IG:320:ARG:HD3	4:IG:360:PRO:HG3	2.01	0.41
3:IH:390:ARG:O	3:IH:392:LYS:NZ	2.49	0.41
4:II:47:ASP:HB3	4:II:49:PHE:CE2	2.54	0.41
4:II:301:GLN:OE1	4:II:301:GLN:N	2.53	0.41
4:II:317:MET:HE1	4:II:351:PHE:HB3	2.00	0.41
3:IJ:389:PHE:HZ	3:IJ:405:GLU:HB2	1.84	0.41
4:IK:246:GLY:HA3	4:IK:356:ASN:HA	2.01	0.41
4:IM:121:ARG:CZ	4:IM:124:LYS:HE2	2.50	0.41
18:J:95:TYR:CD1	3:JH:362:LYS:HD2	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:J:144:LEU:O	18:J:147:GLN:HG3	2.19	0.41
19:J3:53:VAL:HA	19:J3:70:VAL:HB	2.02	0.41
19:J3:165:VAL:HA	19:J3:178:ILE:HG23	2.00	0.41
3:JB:152:ILE:O	3:JB:156:ARG:HG2	2.19	0.41
3:JB:267:MET:HA	3:JB:268:PRO:HD3	1.92	0.41
4:JC:129:CYS:SG	4:JC:132:LEU:HD12	2.60	0.41
4:JC:160:ASP:OD1	4:JC:161:TYR:N	2.52	0.41
4:JC:322:ASP:OD2	4:JC:373:ARG:NH2	2.54	0.41
4:JE:322:ASP:OD2	4:JE:373:ARG:NH1	2.53	0.41
3:JF:111:GLU:OE1	3:JF:111:GLU:N	2.45	0.41
3:JF:345:ILE:HD12	4:JG:398:MET:HE3	2.01	0.41
4:JG:246:GLY:HA3	4:JG:355:ILE:O	2.19	0.41
3:JH:54:ALA:HB3	3:JH:58:LYS:HB3	2.02	0.41
3:JH:192:LEU:O	3:JH:196:THR:HG22	2.20	0.41
3:JH:271:ALA:HB3	3:JH:365:ALA:H	1.85	0.41
4:JI:35:GLN:HG2	4:JI:59:GLY:O	2.20	0.41
4:JI:224:TYR:CE1	39:JI:501:GTP:C5	3.07	0.41
4:JI:399:TYR:OH	4:JI:415:GLU:HB2	2.19	0.41
3:JJ:148:GLY:O	3:JJ:152:ILE:HG12	2.20	0.41
3:JJ:240:LEU:HD22	3:JJ:248:ALA:HB1	2.02	0.41
3:JJ:249:ASP:O	3:JJ:252:LYS:HB3	2.19	0.41
3:JL:94:GLN:HG3	3:JL:94:GLN:O	2.20	0.41
20:K:168:ASP:OD1	20:K:169:HIS:N	2.52	0.41
20:K:197:GLN:O	20:K:223:TYR:N	2.51	0.41
21:K2:172:LEU:HD23	21:K2:206:LEU:HD13	2.02	0.41
21:K2:342:GLU:O	21:K2:346:LEU:HG	2.20	0.41
21:K3:148:ASN:O	21:K3:152:ARG:HG2	2.20	0.41
21:K3:159:GLU:HA	21:K3:162:ASP:OD2	2.20	0.41
21:K5:46:MET:HE1	21:K5:108:ARG:HD3	2.02	0.41
4:KA:66:VAL:HG12	4:KA:68:VAL:HG13	2.00	0.41
4:KA:172:TYR:CD1	4:KA:173:PRO:HD2	2.55	0.41
4:KA:349:THR:HG23	3:KB:179:VAL:HG12	2.02	0.41
4:KE:331:ALA:O	4:KE:335:ILE:HG12	2.20	0.41
4:KG:10:GLY:O	4:KG:14:VAL:HG13	2.20	0.41
4:KG:416:GLY:O	4:KG:419:SER:HB2	2.20	0.41
3:KH:271:ALA:HB1	3:KH:272:PRO:CD	2.49	0.41
4:KI:2:ARG:NE	4:KI:242:LEU:HG	2.35	0.41
3:KJ:292:GLN:HA	3:KJ:295:ASP:OD2	2.20	0.41
4:KK:139:HIS:O	4:KK:170:ALA:HA	2.19	0.41
22:L2:74:PRO:C	22:L2:75:LYS:HD3	2.45	0.41
22:L2:129:ARG:NH2	4:LG:93:ILE:HA	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:L2:237:LEU:O	22:L2:241:ILE:HG12	2.19	0.41
4:LA:109:THR:O	4:LA:112:LYS:NZ	2.49	0.41
4:LA:387:ALA:O	4:LA:391:LEU:HG	2.20	0.41
3:LB:375:GLN:HA	3:LB:378:PHE:CE1	2.54	0.41
4:LC:1:MET:N	4:LC:130:THR:OG1	2.53	0.41
4:LC:78:VAL:HG13	4:LC:79:ARG:NH1	2.35	0.41
4:LC:315:CYS:O	4:LC:351:PHE:HA	2.20	0.41
3:LD:292:GLN:HA	3:LD:295:ASP:OD2	2.20	0.41
4:LE:102:ASN:CG	4:LE:105:ARG:H	2.28	0.41
3:LF:272:PRO:HA	3:LF:292:GLN:OE1	2.19	0.41
3:LF:390:ARG:HA	3:LF:390:ARG:HD2	1.87	0.41
4:LG:384:ILE:HB	4:LG:388:TRP:HZ3	1.84	0.41
4:LG:418:PHE:O	4:LG:422:ARG:NH2	2.53	0.41
3:LH:2:ARG:HB3	3:LH:131:GLN:CD	2.45	0.41
3:LH:249:ASP:HB3	3:LH:252:LYS:HB2	2.02	0.41
3:LJ:317:PHE:HA	3:LJ:365:ALA:HA	2.02	0.41
3:LL:229:VAL:HA	3:LL:232:THR:HG23	2.02	0.41
3:LL:249:ASP:O	3:LL:253:LEU:HG	2.20	0.41
3:MB:394:PHE:HD1	3:MB:397:TRP:HZ3	1.68	0.41
4:MC:70:LEU:HB2	4:MC:145:THR:HG21	2.02	0.41
4:MC:186:ASN:HA	4:MC:189:LEU:HB2	2.01	0.41
4:MC:251:ASP:HB3	4:MC:254:GLU:OE1	2.20	0.41
3:MD:81:PHE:O	3:MD:84:ILE:HG22	2.20	0.41
3:MD:261:PRO:HD3	4:ME:406:HIS:CG	2.55	0.41
4:ME:3:GLU:N	4:ME:133:GLN:OE1	2.53	0.41
4:ME:119:LEU:O	4:ME:123:ARG:HG2	2.20	0.41
4:ME:263:PRO:O	4:ME:264:ARG:HB2	2.19	0.41
4:ME:429:GLU:HA	4:ME:432:TYR:HB2	2.02	0.41
3:MF:152:ILE:O	3:MF:156:ARG:HG2	2.20	0.41
4:MG:6:SER:HA	4:MG:136:LEU:HB3	2.02	0.41
4:MG:26:LEU:HG	4:MG:363:VAL:HG23	2.01	0.41
4:MG:166:LYS:O	4:MG:199:ASP:HB2	2.20	0.41
3:MH:6:HIS:HB2	3:MH:134:GLN:NE2	2.35	0.41
3:MJ:111:GLU:OE1	3:MJ:111:GLU:N	2.45	0.41
4:MK:68:VAL:HA	4:MK:93:ILE:HB	2.02	0.41
4:MK:74:VAL:O	4:MK:77:GLU:HG2	2.19	0.41
3:ML:105:HIS:O	3:ML:150:LEU:HD21	2.20	0.41
4:NA:115:VAL:HG21	4:NA:156:ARG:HD3	2.02	0.41
4:NA:212:ILE:HD12	4:NA:302:MET:HE3	2.02	0.41
4:NA:368:LEU:HD23	4:NA:368:LEU:H	1.85	0.41
3:NB:150:LEU:C	3:NB:154:LYS:HZ3	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:NE:132:LEU:HD13	4:NE:164:LYS:HE2	2.01	0.41
3:NF:318:ARG:HA	3:NF:354:CYS:HB3	2.02	0.41
4:NI:145:THR:HG23	39:NI:501:GTP:O3B	2.20	0.41
3:NJ:58:LYS:HE2	3:OJ:281:TYR:HE1	1.85	0.41
3:NJ:394:PHE:HA	3:NJ:397:TRP:HZ3	1.85	0.41
28:O3:49:LEU:HD13	28:O3:55:ARG:HG3	2.01	0.41
4:OA:46:ASP:HA	4:OA:50:ASN:HB3	2.00	0.41
3:OB:174:LYS:HG2	3:OB:205:GLU:OE2	2.19	0.41
3:OB:380:ARG:CZ	3:OB:380:ARG:HB3	2.50	0.41
4:OC:139:HIS:O	4:OC:170:ALA:HA	2.20	0.41
3:OD:216:LYS:HB3	3:OD:276:ARG:NH2	2.34	0.41
3:OD:375:GLN:HA	3:OD:378:PHE:CE1	2.55	0.41
4:OE:336:LYS:HG2	4:OE:351:PHE:CE2	2.55	0.41
4:OE:430:LYS:HG3	4:OE:431:ASP:N	2.35	0.41
3:OF:12:CYS:HA	3:OF:15:GLN:OE1	2.20	0.41
3:OF:12:CYS:CB	39:OF:501:GTP:H5'	2.50	0.41
3:OF:149:THR:HG21	3:OF:188:SER:HA	2.02	0.41
3:OF:165:ASN:OD1	3:OF:166:THR:N	2.53	0.41
4:OG:186:ASN:HA	4:OG:189:LEU:HD12	2.02	0.41
3:OJ:118:ASP:HA	3:OJ:121:ARG:HG2	2.02	0.41
3:OL:385:PHE:O	3:OL:389:PHE:HB2	2.19	0.41
27:P:19:ARG:O	27:P:23:LEU:N	2.48	0.41
29:P1:63:HIS:ND1	29:P1:83:GLN:HB3	2.35	0.41
29:P1:301:GLU:HG3	30:Q1:1499:LYS:O	2.19	0.41
29:P2:510:TYR:HA	29:P2:517:ILE:HG12	2.01	0.41
29:P3:355:ASP:O	29:P3:356:ILE:HD13	2.20	0.41
4:PA:105:ARG:O	4:PA:109:THR:OG1	2.28	0.41
4:PA:139:HIS:CD2	4:PA:170:ALA:HB2	2.55	0.41
4:PA:318:LEU:O	4:PA:375:VAL:HA	2.20	0.41
3:PD:350:LYS:HE3	4:PE:180:ALA:HA	2.01	0.41
4:PE:160:ASP:OD1	4:PE:161:TYR:N	2.53	0.41
4:PG:265:ILE:HD12	4:PG:432:TYR:CE1	2.55	0.41
3:PH:271:ALA:HB3	3:PH:365:ALA:H	1.84	0.41
4:PI:1:MET:HE3	4:PI:50:ASN:HD21	1.84	0.41
4:PI:371:VAL:HG11	4:PI:374:ALA:HB2	2.01	0.41
3:PJ:51:TYR:HD2	3:PJ:59:TYR:HB3	1.85	0.41
3:PJ:144:GLY:HA2	3:PJ:147:MET:HG2	2.02	0.41
4:PK:276:ILE:HD11	4:PK:280:LYS:HB3	2.02	0.41
30:Q1:1468:LEU:HB3	30:Q1:1504:LYS:C	2.44	0.41
30:Q1:1497:TYR:CE2	30:Q1:1510:PHE:HA	2.55	0.41
30:Q1:1503:SER:O	30:Q1:1504:LYS:HD2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QD:34:GLY:HA3	3:QD:58:LYS:HZ2	1.85	0.41
3:QD:100:ASN:HB3	3:QD:103:LYS:HG2	2.02	0.41
3:QD:331:LEU:HD21	4:QE:177:VAL:HG22	2.02	0.41
3:QF:324:LYS:HD3	4:QG:210:TYR:CE1	2.55	0.41
3:QF:391:ARG:O	3:QF:391:ARG:HD3	2.19	0.41
4:QG:60:LYS:HE2	4:QG:86:LEU:HD23	2.02	0.41
4:QG:132:LEU:HD23	4:QG:132:LEU:O	2.21	0.41
4:QG:279:GLU:O	4:QG:283:HIS:HD2	2.03	0.41
4:QG:319:TYR:HE2	4:QG:328:VAL:HG13	1.85	0.41
3:QH:3:GLU:HG2	3:QH:130:LEU:HD13	2.02	0.41
3:QH:20:PHE:HA	3:QH:230:SER:HB2	2.01	0.41
3:QH:91:VAL:HG11	3:QH:116:VAL:HG12	2.02	0.41
3:QH:262:ARG:HD2	3:QH:421:GLU:CD	2.45	0.41
3:QH:398:TYR:HB3	3:QH:403:MET:CB	2.50	0.41
4:QI:46:ASP:HA	4:QI:50:ASN:HB3	2.01	0.41
4:QM:166:LYS:O	4:QM:199:ASP:HB2	2.19	0.41
3:RB:216:LYS:HD2	3:RB:276:ARG:HG3	2.01	0.41
3:RB:341:PHE:HD1	3:RB:348:ASN:HD21	1.68	0.41
4:RC:152:LEU:O	4:RC:156:ARG:NH1	2.53	0.41
4:RE:22:GLU:HG2	4:RE:83:TYR:HE2	1.85	0.41
4:RE:83:TYR:HB3	4:RE:86:LEU:HD12	2.02	0.41
4:RE:178:SER:OG	4:RE:180:ALA:O	2.37	0.41
4:RE:329:ASN:OD1	4:RE:330:ALA:N	2.53	0.41
4:RE:430:LYS:HA	4:RE:433:GLU:HG3	2.00	0.41
3:RF:214:THR:HG21	3:RF:273:LEU:HB3	2.02	0.41
3:RH:305:PRO:HB2	3:RH:310:TYR:HE1	1.84	0.41
3:RH:318:ARG:HD3	3:RH:358:PRO:HG3	2.02	0.41
4:RI:202:PHE:HD1	4:RI:268:PRO:HD2	1.84	0.41
3:RJ:32:PRO:O	3:RJ:84:ILE:HD11	2.20	0.41
3:RJ:412:GLU:OE1	3:RJ:416:ASN:ND2	2.53	0.41
4:RK:298:PRO:HG3	4:RK:308:ARG:NH2	2.35	0.41
3:RL:73:MET:HA	3:RL:76:VAL:HG22	2.02	0.41
4:RM:12:ALA:HB1	39:RM:501:GTP:N3	2.35	0.41
4:RM:143:GLY:HA3	4:RM:147:SER:H	1.83	0.41
3:SB:180:VAL:HG22	3:SB:183:TYR:HB2	2.00	0.41
3:SB:257:MET:O	3:SB:312:THR:HG21	2.20	0.41
3:SB:327:ASP:O	3:SB:330:MET:HG3	2.20	0.41
4:SC:399:TYR:O	4:SC:402:ARG:NH1	2.53	0.41
4:SE:166:LYS:O	4:SE:199:ASP:HB2	2.20	0.41
4:SE:206:ASN:OD1	4:SE:206:ASN:N	2.52	0.41
3:SF:106:TYR:HB2	3:SF:401:GLU:OE2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:SF:132:GLY:HA3	3:SF:163:ILE:H	1.85	0.41
4:SG:132:LEU:HD12	4:SG:132:LEU:O	2.20	0.41
4:SG:216:ASN:HD21	4:SG:275:VAL:HG23	1.84	0.41
3:SH:271:ALA:HB3	3:SH:365:ALA:H	1.85	0.41
4:SI:118:VAL:HA	4:SI:121:ARG:HG2	2.01	0.41
4:SI:139:HIS:O	4:SI:170:ALA:HA	2.20	0.41
4:SI:166:LYS:N	4:SI:199:ASP:OD2	2.53	0.41
4:SM:331:ALA:O	4:SM:335:ILE:HG12	2.19	0.41
3:TD:180:VAL:HG13	3:TD:184:ASN:OD1	2.20	0.41
3:TD:258:VAL:HG13	3:TD:263:LEU:HB2	2.02	0.41
3:TD:334:GLN:O	3:TD:338:SER:OG	2.31	0.41
4:TE:21:TRP:HD1	4:TE:67:PHE:HZ	1.67	0.41
3:TF:180:VAL:HG22	3:TF:183:TYR:HB2	2.01	0.41
4:TG:154:MET:HE1	4:TG:197:HIS:HB2	2.01	0.41
4:TG:187:SER:O	4:TG:191:THR:HG23	2.20	0.41
3:TJ:391:ARG:C	3:TJ:392:LYS:HG3	2.45	0.41
3:TL:39:ASP:OD1	3:TL:39:ASP:N	2.53	0.41
4:TM:175:PRO:HA	4:TM:390:ARG:CZ	2.49	0.41
4:TM:265:ILE:HD12	4:TM:432:TYR:CE1	2.54	0.41
3:TN:121:ARG:HA	3:TN:124:ALA:HB3	2.02	0.41
4:UA:402:ARG:HB2	4:UA:405:VAL:HG11	2.01	0.41
4:UC:1:MET:N	4:UC:130:THR:OG1	2.50	0.41
4:UC:45:GLY:HA2	4:UC:49:PHE:HE1	1.84	0.41
3:UD:152:ILE:HA	3:UD:155:ILE:HG12	2.02	0.41
3:UF:137:HIS:O	3:UF:168:SER:HA	2.20	0.41
4:UG:50:ASN:OD1	4:UG:51:THR:N	2.53	0.41
4:UG:306:ASP:OD2	4:UG:309:HIS:ND1	2.53	0.41
3:UH:267:MET:O	3:UH:368:ILE:HD12	2.20	0.41
4:UI:1:MET:N	4:UI:130:THR:OG1	2.53	0.41
4:UI:252:LEU:HD12	4:UI:253:THR:N	2.35	0.41
3:UJ:306:ARG:O	3:UJ:306:ARG:NE	2.51	0.41
4:UK:75:VAL:HG22	4:UK:79:ARG:HH21	1.84	0.41
3:UL:49:VAL:C	3:UL:62:ARG:HH21	2.28	0.41
3:UL:257:MET:O	3:UL:259:PRO:HD3	2.19	0.41
3:VB:217:LEU:O	3:VB:219:THR:N	2.52	0.41
3:VB:238:THR:HA	3:VB:241:ARG:HG2	2.01	0.41
4:VC:2:ARG:NH1	4:VC:241:SER:O	2.53	0.41
3:VF:173:PRO:HD3	3:VF:203:ASP:OD1	2.20	0.41
3:VF:318:ARG:O	3:VF:364:SER:N	2.48	0.41
3:VH:101:TRP:CE3	3:VH:187:LEU:HD13	2.55	0.41
4:VI:104:ALA:HB1	4:VI:108:TYR:HD2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VJ:51:TYR:CD1	3:VJ:61:PRO:HA	2.54	0.41
3:VJ:217:LEU:O	3:VJ:219:THR:N	2.52	0.41
4:VK:6:SER:HB3	4:VK:65:ALA:HB2	2.01	0.41
4:VK:66:VAL:HG12	4:VK:68:VAL:HG13	2.02	0.41
4:VK:99:ALA:HB3	4:VK:144:GLY:O	2.20	0.41
4:VK:172:TYR:N	4:VK:204:VAL:O	2.34	0.41
3:VL:254:ALA:HA	3:VL:257:MET:HB3	2.02	0.41
3:VL:375:GLN:HA	3:VL:378:PHE:CE1	2.55	0.41
33:W:318:ILE:O	33:W:321:GLU:HG3	2.19	0.41
4:WA:7:ILE:HB	4:WA:137:ILE:HA	2.01	0.41
4:WA:11:GLN:HB2	4:WA:74:VAL:HG21	2.00	0.41
4:WA:104:ALA:O	4:WA:108:TYR:N	2.46	0.41
4:WA:251:ASP:HB3	4:WA:254:GLU:OE1	2.20	0.41
4:WA:394:LYS:O	4:WA:398:MET:HG2	2.20	0.41
4:WA:402:ARG:HB2	4:WA:405:VAL:HG11	2.02	0.41
4:WA:420:GLU:HA	4:WA:423:GLU:OE2	2.19	0.41
3:WB:39:ASP:OD1	3:WB:39:ASP:N	2.52	0.41
4:WC:135:PHE:HD2	4:WC:166:LYS:HG3	1.84	0.41
4:WC:251:ASP:HB3	4:WC:254:GLU:OE1	2.20	0.41
4:WC:390:ARG:HA	4:WC:393:HIS:CD2	2.55	0.41
3:WD:324:LYS:HE2	4:WE:222:PRO:HD2	2.02	0.41
4:WE:35:GLN:HG2	4:WE:59:GLY:O	2.20	0.41
4:WE:66:VAL:HG12	4:WE:68:VAL:HG13	2.01	0.41
4:WE:69:ASP:OD1	4:WE:70:LEU:N	2.53	0.41
4:WE:186:ASN:HA	4:WE:189:LEU:HB2	2.02	0.41
4:WE:359:PRO:HA	4:WE:360:PRO:HD3	1.98	0.41
3:WF:312:THR:OG1	3:WF:370:ASN:HB3	2.20	0.41
3:WF:389:PHE:CZ	3:WF:405:GLU:HB2	2.54	0.41
4:WG:119:LEU:HB3	4:WG:123:ARG:NH2	2.35	0.41
4:WG:161:TYR:O	4:WG:166:LYS:NZ	2.37	0.41
4:WG:224:TYR:O	4:WG:225:THR:C	2.63	0.41
4:WI:187:SER:O	4:WI:191:THR:HG23	2.20	0.41
3:WJ:117:LEU:HB3	3:WJ:121:ARG:NH2	2.35	0.41
3:WJ:156:ARG:NE	3:WJ:164:MET:HE3	2.35	0.41
3:WJ:375:GLN:HA	3:WJ:378:PHE:CE1	2.55	0.41
34:XF:39:ASP:OD1	34:XF:41:ASP:N	2.53	0.41
34:XF:96:ASP:OD1	34:XF:96:ASP:N	2.53	0.41
34:XG:87:PHE:CD1	34:XG:160:CYS:HB3	2.55	0.41
34:XG:115:LYS:O	34:XG:144:TYR:OH	2.15	0.41
35:XH:119:LEU:CB	35:XH:158:HIS:CE1	3.03	0.41
35:XI:105:PHE:CG	35:XI:106:PRO:HA	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:XI:207:ASP:HA	35:XI:210:GLN:HE21	1.85	0.41
35:XK:65:PHE:HB3	35:XK:67:ILE:CD1	2.50	0.41
35:XK:218:ARG:HA	35:XK:239:LEU:HD11	2.02	0.41
35:XK:227:ASN:HB3	35:XK:231:MET:HE1	2.02	0.41
35:XL:93:LEU:HD23	35:XL:129:VAL:HG11	2.01	0.41
36:Y:159:MET:HE3	36:Y:163:ASP:OD2	2.20	0.41
37:YB:29:LEU:HG	37:YB:33:ARG:HH12	1.85	0.41
37:YE:22:GLN:O	37:YE:26:ILE:HG12	2.19	0.41
37:YF:124:HIS:ND1	37:YF:124:HIS:O	2.53	0.41
37:YG:124:HIS:O	37:YG:124:HIS:ND1	2.53	0.41
37:YH:93:THR:HB	37:YH:151:TRP:CD1	2.55	0.41
37:YH:117:TYR:CD1	37:YH:118:PRO:HA	2.54	0.41
37:YI:45:SER:HB3	37:YI:48:GLN:OE1	2.19	0.41
37:YI:93:THR:HB	37:YI:151:TRP:CD1	2.54	0.41
37:YI:114:ARG:HD2	37:YI:122:VAL:HG11	2.02	0.41
37:YL:124:HIS:ND1	37:YL:124:HIS:O	2.53	0.41
37:YS:25:PHE:O	37:YS:29:LEU:HD23	2.19	0.41
37:YS:113:LEU:HD22	37:YS:140:LEU:HA	2.02	0.41
37:YW:137:VAL:HG13	37:YW:138:VAL:HG13	2.02	0.41
36:Z:387:ARG:O	36:Z:391:ILE:HG13	2.19	0.41
1:A:26:LEU:O	1:A:30:VAL:HG13	2.21	0.41
2:A1:367:ARG:HD3	14:G4:182:GLY:HA2	2.02	0.41
2:A1:369:GLN:O	2:A1:373:GLN:HG3	2.19	0.41
2:A2:36:ARG:O	2:A2:40:GLU:OE1	2.38	0.41
2:A4:43:ARG:NH2	2:A4:44:LEU:HB3	2.35	0.41
3:AB:8:GLN:NE2	3:AB:17:GLY:HA3	2.34	0.41
3:AB:33:THR:O	3:AB:58:LYS:NZ	2.53	0.41
3:AB:52:ASN:ND2	3:AB:62:ARG:HD3	2.34	0.41
3:AB:279:GLN:HA	3:AB:282:ARG:NH1	2.35	0.41
3:AB:300:MET:SD	3:AB:300:MET:N	2.93	0.41
4:AC:154:MET:HE3	4:AC:194:THR:HG22	2.01	0.41
3:AD:267:MET:O	3:AD:368:ILE:HD12	2.20	0.41
4:AE:424:ASP:O	4:AE:428:LEU:HG	2.20	0.41
3:AF:130:LEU:HB2	3:AF:162:ARG:NH1	2.35	0.41
3:AF:394:PHE:HA	3:AF:397:TRP:HZ3	1.85	0.41
4:AI:88:HIS:HB3	4:AI:91:GLN:HG2	2.02	0.41
4:AI:207:GLU:HB2	4:AI:304:LYS:HE2	2.02	0.41
4:AK:186:ASN:OD1	4:AK:187:SER:N	2.53	0.41
4:AM:10:GLY:O	4:AM:13:GLY:N	2.49	0.41
4:AM:255:PHE:O	4:AM:259:LEU:HB2	2.20	0.41
1:B:479:GLU:OE1	1:B:479:GLU:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B1:117:LEU:O	5:B1:121:GLU:HG2	2.20	0.41
5:B2:36:HIS:HA	5:B2:39:ARG:HB2	2.02	0.41
5:B4:206:THR:O	5:B4:206:THR:HG22	2.20	0.41
5:B4:233:MET:O	5:B4:236:SER:OG	2.27	0.41
5:B9:304:LEU:HD11	5:B9:356:LEU:HD13	2.03	0.41
3:BB:135:LEU:O	3:BB:167:PHE:HB3	2.20	0.41
3:BB:324:LYS:HE3	3:BB:324:LYS:HB3	1.91	0.41
3:BF:172:SER:OG	3:BF:205:GLU:OE2	2.20	0.41
4:BG:255:PHE:O	4:BG:259:LEU:HB2	2.20	0.41
4:BI:119:LEU:HB3	4:BI:123:ARG:NH2	2.34	0.41
4:BI:297:GLU:HB3	4:BI:300:ASN:OD1	2.20	0.41
4:BI:414:GLU:HG2	4:BI:417:GLU:OE1	2.20	0.41
4:BM:50:ASN:OD1	4:BM:51:THR:N	2.53	0.41
4:BM:311:LYS:N	4:BM:382:THR:OG1	2.53	0.41
6:C:144:MET:HB2	6:C:290:ILE:H	1.85	0.41
6:C:287:MET:SD	6:C:290:ILE:HG23	2.60	0.41
6:C:311:VAL:HG12	6:C:313:GLU:H	1.84	0.41
7:C2:107:PHE:HZ	7:C3:360:LYS:HE2	1.85	0.41
7:C7:131:LYS:HA	7:C7:134:GLN:HE21	1.85	0.41
7:C7:302:LYS:HA	7:C7:302:LYS:HD3	1.86	0.41
7:C8:258:LEU:HA	7:C8:261:LYS:HE3	2.02	0.41
7:C9:319:ALA:O	7:C9:322:ARG:HB2	2.20	0.41
4:CC:76:ASP:O	4:CC:80:THR:N	2.53	0.41
4:CC:265:ILE:HA	4:CC:267:PHE:CE2	2.56	0.41
4:CC:395:PHE:HB3	4:CC:422:ARG:NH1	2.36	0.41
4:CC:397:LEU:O	4:CC:401:LYS:HG2	2.20	0.41
4:CG:20:CYS:O	4:CG:24:TYR:N	2.45	0.41
4:CG:39:ASP:HB3	14:G5:231:ARG:CZ	2.50	0.41
4:CG:310:GLY:HA3	4:CG:383:ALA:HB2	2.02	0.41
4:CG:320:ARG:CZ	4:CG:360:PRO:HA	2.50	0.41
3:CH:30:ILE:HG13	3:CH:36:TYR:HD1	1.85	0.41
3:CH:33:THR:HG22	14:G5:349:ARG:HH12	1.85	0.41
4:CI:84:ARG:NH2	15:H4:213:ILE:HG23	2.35	0.41
3:CJ:41:ASP:O	3:CJ:44:LEU:HB2	2.19	0.41
3:CJ:376:GLU:H	3:CJ:376:GLU:CD	2.25	0.41
4:CK:326:LYS:HE3	3:CL:220:PRO:HD2	2.01	0.41
4:CM:2:ARG:NH1	4:CM:241:SER:O	2.53	0.41
4:CM:306:ASP:OD2	4:CM:309:HIS:N	2.53	0.41
7:Ca:356:ASP:OD2	11:Fe:333:TRP:NE1	2.53	0.41
7:Cb:394:LYS:HA	7:Cb:397:GLN:NE2	2.33	0.41
6:D:265:PRO:HA	6:D:325:PRO:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:D4:182:LEU:O	8:D4:186:ILE:HG12	2.20	0.41
8:D4:232:THR:HG22	8:D4:235:SER:HB3	2.02	0.41
8:D5:320:TYR:HA	8:D5:323:ARG:NH1	2.35	0.41
8:D7:129:ASP:O	8:D7:132:MET:HG3	2.20	0.41
8:D7:319:GLN:O	8:D7:322:LEU:HG	2.20	0.41
8:D8:425:ILE:O	8:D8:429:LYS:HG2	2.20	0.41
8:D9:243:HIS:CD2	8:D9:247:PHE:CZ	3.08	0.41
4:DA:207:GLU:HB2	4:DA:304:LYS:NZ	2.31	0.41
3:DB:150:LEU:C	3:DB:154:LYS:HZ3	2.27	0.41
3:DB:249:ASP:OD2	3:DB:251:ARG:HB3	2.20	0.41
3:DD:139:LEU:HD21	3:DD:170:VAL:HG22	2.01	0.41
3:DD:216:LYS:HB3	3:DD:276:ARG:CZ	2.50	0.41
4:DE:168:GLU:HB2	4:DE:201:ALA:HA	2.01	0.41
3:DF:101:TRP:CE3	3:DF:187:LEU:HD13	2.55	0.41
3:DF:182:PRO:HA	3:DF:381:ILE:HD11	2.01	0.41
4:DG:122:ILE:HG13	4:DG:123:ARG:N	2.35	0.41
4:DG:220:GLU:OE1	4:DG:220:GLU:N	2.49	0.41
4:DG:263:PRO:O	4:DG:264:ARG:HB2	2.20	0.41
4:DG:362:VAL:HA	4:DG:368:LEU:HD21	2.02	0.41
3:DH:148:GLY:O	3:DH:152:ILE:HG12	2.20	0.41
4:DI:208:ALA:H	4:DI:304:LYS:NZ	2.16	0.41
3:DJ:3:GLU:OE2	3:DJ:128:ASP:N	2.51	0.41
3:DJ:156:ARG:HD2	3:DJ:156:ARG:HA	1.85	0.41
3:DL:270:PHE:O	3:DL:298:ASN:ND2	2.42	0.41
3:DL:300:MET:SD	3:DL:300:MET:N	2.93	0.41
10:E2:160:LEU:HD12	10:E2:160:LEU:O	2.20	0.41
3:EB:258:VAL:HG13	3:EB:263:LEU:HB2	2.03	0.41
4:EC:166:LYS:O	4:EC:199:ASP:HB2	2.21	0.41
3:ED:33:THR:HG22	13:G1:501:HIS:ND1	2.36	0.41
3:ED:216:LYS:HB2	3:ED:276:ARG:NH1	2.35	0.41
3:ED:227:HIS:NE2	13:G1:386:GLY:O	2.46	0.41
3:EF:255:VAL:HA	4:EG:407:TRP:CZ3	2.55	0.41
4:EI:70:LEU:HB3	4:EI:97:GLU:O	2.20	0.41
4:EK:47:ASP:O	4:EK:50:ASN:N	2.31	0.41
4:EK:280:LYS:HD2	4:EK:280:LYS:HA	1.76	0.41
3:EL:28:HIS:CE1	3:EL:241:ARG:NH2	2.89	0.41
11:F2:373:ASN:O	11:F2:376:MET:HG3	2.20	0.41
11:F2:409:ARG:HH11	11:F3:289:THR:HG23	1.84	0.41
11:F3:394:THR:HG22	11:F4:280:PHE:HD2	1.86	0.41
11:F4:228:GLN:HA	11:F4:231:LYS:HD2	2.03	0.41
11:F5:99:ASN:O	11:F5:103:ILE:HG12	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:F6:297:ALA:O	11:F6:300:SER:OG	2.26	0.41
11:F7:232:LEU:O	11:F7:236:ILE:HG12	2.19	0.41
11:F7:441:LEU:O	11:F7:444:LEU:HG	2.21	0.41
4:FA:84:ARG:HA	4:FA:87:PHE:HD2	1.85	0.41
4:FA:273:ALA:O	4:FA:275:VAL:N	2.49	0.41
3:FB:267:MET:N	3:FB:369:GLY:O	2.30	0.41
4:FC:346:TRP:CH2	4:FC:435:VAL:HA	2.55	0.41
4:FE:336:LYS:HE2	3:FF:175:VAL:HB	2.02	0.41
3:FF:132:GLY:CA	3:FF:162:ARG:HB3	2.47	0.41
4:FG:433:GLU:O	4:FG:437:VAL:N	2.48	0.41
3:FH:145:SER:O	3:FH:149:THR:OG1	2.37	0.41
3:FH:175:VAL:HG22	3:FH:177:ASP:H	1.85	0.41
3:FH:269:GLY:HA3	3:FH:367:PHE:HB3	2.02	0.41
3:FH:286:VAL:HB	3:FH:287:PRO:HD3	2.02	0.41
3:FJ:245:GLN:OE1	39:FK:501:GTP:N7	2.53	0.41
3:FJ:254:ALA:O	3:FJ:258:VAL:N	2.54	0.41
3:FL:131:GLN:HB3	3:FL:163:ILE:HD12	2.02	0.41
3:FL:322:SER:HB3	3:FL:325:GLU:OE1	2.19	0.41
11:Fa:193:GLU:O	11:Fa:197:ASN:ND2	2.53	0.41
11:Fa:363:LYS:O	11:Fa:367:GLU:OE1	2.39	0.41
11:Ff:120:SER:H	11:Fg:433:ARG:HH21	1.68	0.41
11:Ff:184:VAL:HB	11:Ff:226:GLN:HE21	1.84	0.41
11:Fg:305:ARG:HA	11:Fg:308:GLN:HE21	1.84	0.41
11:Fg:466:LYS:N	11:Fg:466:LYS:HD2	2.35	0.41
11:Fh:375:ILE:O	11:Fh:379:GLU:OE1	2.38	0.41
11:Fh:402:ARG:HG3	11:Fi:241:ARG:NH2	2.35	0.41
11:Fj:181:ALA:HB2	11:Fj:229:MET:CE	2.49	0.41
11:Fm:292:ILE:HB	11:Fm:293:PRO:HD3	2.02	0.41
11:Fm:460:ASN:O	11:Fm:464:ILE:HG12	2.20	0.41
11:Fm:472:MET:SD	11:Fm:473:ARG:N	2.93	0.41
13:G3:320:VAL:HG11	13:G3:323:TRP:CZ2	2.55	0.41
14:G4:104:ILE:HG23	14:G4:115:VAL:HG22	2.02	0.41
14:G4:387:GLU:HG3	14:G4:388:ARG:N	2.35	0.41
14:G4:562:ILE:O	14:G4:566:PHE:HD2	2.03	0.41
14:G4:586:LEU:O	14:G4:589:ILE:HG12	2.20	0.41
14:G4:637:MET:O	14:G4:641:ASN:ND2	2.53	0.41
14:G5:648:GLU:OE2	14:G5:650:LYS:NZ	2.44	0.41
14:G6:198:LYS:HA	14:G6:201:ARG:NE	2.35	0.41
14:G6:733:VAL:HG22	14:G6:734:ARG:H	1.84	0.41
4:GA:328:VAL:O	4:GA:332:ILE:HG12	2.20	0.41
3:GB:43:GLN:O	3:GB:47:ILE:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:GC:224:TYR:CE1	39:GC:501:GTP:C6	3.08	0.41
3:GD:374:ILE:HG22	3:GD:378:PHE:CD2	2.55	0.41
4:GE:2:ARG:NH1	4:GE:241:SER:O	2.53	0.41
4:GE:12:ALA:O	39:GE:501:GTP:N1	2.54	0.41
4:GE:332:ILE:O	4:GE:336:LYS:HG3	2.19	0.41
3:GF:151:LEU:O	3:GF:155:ILE:HG12	2.20	0.41
3:GF:218:THR:OG1	3:GF:219:THR:N	2.53	0.41
3:GF:362:LYS:HG3	3:GF:363:MET:HG3	2.01	0.41
4:GG:47:ASP:CG	4:GG:48:SER:H	2.28	0.41
3:GH:408:PHE:O	3:GH:412:GLU:HG3	2.21	0.41
3:GJ:87:PRO:HA	3:GJ:90:PHE:CD2	2.55	0.41
4:GK:252:LEU:HA	4:GK:255:PHE:CD2	2.53	0.41
3:GL:88:ASP:OD1	3:GL:89:ASN:N	2.52	0.41
3:GL:132:GLY:HA2	3:GL:162:ARG:HB3	2.03	0.41
3:GL:303:CYS:O	3:GL:305:PRO:HD3	2.20	0.41
15:H3:238:ASP:OD1	15:H3:238:ASP:N	2.54	0.41
15:H4:227:ARG:HD2	15:H4:230:TRP:CE3	2.55	0.41
15:H6:13:GLU:N	15:H6:43:LEU:HD22	2.35	0.41
4:HA:11:GLN:HA	4:HA:14:VAL:HG13	2.02	0.41
4:HA:263:PRO:O	4:HA:264:ARG:HB2	2.19	0.41
3:HB:318:ARG:HG3	3:HB:354:CYS:SG	2.59	0.41
4:HC:53:PHE:HD1	4:HC:63:PRO:HA	1.85	0.41
3:HD:224:ASP:O	3:HD:228:LEU:HG	2.20	0.41
3:HD:249:ASP:O	3:HD:253:LEU:HG	2.19	0.41
3:HF:150:LEU:O	3:HF:153:SER:OG	2.31	0.41
4:HG:263:PRO:O	4:HG:264:ARG:HB2	2.19	0.41
3:HH:19:LYS:NZ	3:HH:223:GLY:O	2.53	0.41
3:HH:214:THR:HG23	3:HH:215:LEU:HD22	2.02	0.41
3:HH:249:ASP:O	3:HH:253:LEU:HG	2.19	0.41
3:HH:371:SER:HG	3:HH:372:THR:H	1.69	0.41
4:HI:20:CYS:O	4:HI:24:TYR:N	2.46	0.41
4:HI:262:TYR:HE1	3:HJ:393:ALA:HA	1.85	0.41
3:HJ:200:TYR:CE1	3:HJ:233:MET:HE1	2.55	0.41
3:HJ:324:LYS:HE2	4:HK:222:PRO:CD	2.50	0.41
3:HJ:328:GLU:O	3:HJ:331:LEU:HG	2.20	0.41
4:HK:251:ASP:HB3	4:HK:254:GLU:OE1	2.20	0.41
3:HL:175:VAL:HG22	3:HL:177:ASP:H	1.84	0.41
3:HL:189:VAL:HA	3:HL:192:LEU:HB2	2.01	0.41
4:IA:315:CYS:O	4:IA:351:PHE:HA	2.19	0.41
3:IB:7:LEU:HD13	3:IB:64:VAL:HB	2.01	0.41
3:IB:198:GLU:OE2	3:IB:266:PHE:HD2	2.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IB:324:LYS:HD2	4:IC:221:ARG:HA	2.02	0.41
4:IC:214:ARG:HB3	4:IC:220:GLU:HA	2.01	0.41
3:ID:249:ASP:O	3:ID:253:LEU:HG	2.20	0.41
4:IE:285:GLN:NE2	4:IE:286:LEU:O	2.53	0.41
4:IG:54:SER:N	4:IG:62:VAL:O	2.53	0.41
4:IG:167:LEU:HB3	4:IG:169:PHE:CE1	2.56	0.41
4:IG:176:GLN:NE2	4:IG:207:GLU:OE2	2.53	0.41
4:IG:225:THR:O	4:IG:229:ARG:NE	2.53	0.41
3:IH:246:LEU:HD13	3:IH:353:VAL:C	2.45	0.41
3:IH:285:THR:O	3:IH:288:GLU:HG3	2.20	0.41
4:II:315:CYS:N	4:II:350:GLY:O	2.45	0.41
3:IJ:246:LEU:HB3	3:IJ:353:VAL:O	2.21	0.41
4:IK:21:TRP:CD1	4:IK:67:PHE:HZ	2.38	0.41
3:IL:186:THR:HG23	3:IL:385:PHE:CZ	2.54	0.41
3:IL:313:VAL:HG23	3:IL:349:VAL:HA	2.01	0.41
4:IM:35:GLN:HG2	4:IM:59:GLY:O	2.20	0.41
4:IM:115:VAL:HA	4:IM:118:VAL:HG22	2.03	0.41
19:J1:31:SER:O	19:J1:104:HIS:HA	2.20	0.41
19:J2:117:LEU:HD11	19:J2:132:HIS:HA	2.02	0.41
4:JG:31:GLN:HE22	4:JG:37:PRO:HD3	1.85	0.41
3:JH:11:GLN:HG3	39:JH:501:GTP:O5'	2.20	0.41
3:JH:32:PRO:HA	3:JH:81:PHE:CE1	2.55	0.41
4:JI:68:VAL:HA	4:JI:93:ILE:HB	2.02	0.41
4:JI:206:ASN:OD1	4:JI:206:ASN:N	2.50	0.41
3:JJ:372:THR:HB	3:JJ:375:GLN:HE22	1.85	0.41
3:JL:49:VAL:C	3:JL:62:ARG:HH21	2.27	0.41
20:K:229:ARG:HD3	20:K:252:HIS:HA	2.02	0.41
21:K2:139:ARG:HA	21:K2:264:TRP:HE1	1.84	0.41
21:K2:263:SER:C	21:K2:265:VAL:H	2.28	0.41
21:K3:15:ARG:HE	21:K3:16:VAL:N	2.08	0.41
21:K3:177:GLN:HG2	21:K3:481:VAL:HG22	2.02	0.41
21:K3:191:ILE:HG21	21:K4:20:GLU:OE2	2.21	0.41
21:K4:165:LEU:O	21:K4:169:ARG:HG3	2.20	0.41
21:K4:193:ASP:CG	21:K4:194:LYS:H	2.27	0.41
21:K4:371:MET:HE1	21:K4:375:ARG:HH22	1.85	0.41
4:KA:287:SER:OG	4:KA:290:GLU:OE1	2.27	0.41
4:KA:368:LEU:HD23	4:KA:368:LEU:H	1.85	0.41
3:KB:105:HIS:ND1	3:KB:149:THR:OG1	2.52	0.41
3:KB:257:MET:O	3:KB:259:PRO:HD3	2.20	0.41
3:KB:305:PRO:HB3	3:KB:371:SER:OG	2.20	0.41
4:KC:8:HIS:CE1	4:KC:138:PHE:CD2	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KD:203:ASP:OD2	3:KD:205:GLU:HB2	2.19	0.41
3:KD:229:VAL:C	3:KD:233:MET:HE3	2.45	0.41
3:KD:317:PHE:N	3:KD:352:ALA:O	2.47	0.41
4:KG:290:GLU:HG2	4:KG:291:ILE:N	2.35	0.41
4:KI:75:VAL:HA	4:KI:78:VAL:HG22	2.01	0.41
4:KI:431:ASP:O	4:KI:435:VAL:HG22	2.19	0.41
3:KJ:12:CYS:HA	3:KJ:15:GLN:OE1	2.20	0.41
3:KJ:324:LYS:NZ	4:KK:222:PRO:O	2.32	0.41
3:KJ:324:LYS:HD3	4:KK:210:TYR:HE1	1.84	0.41
4:KK:5:ILE:HB	4:KK:135:PHE:CD1	2.54	0.41
22:L2:49:MET:HE1	3:MD:340:TYR:CE2	2.54	0.41
22:L2:129:ARG:NE	4:LG:90:GLU:HA	2.35	0.41
3:LB:249:ASP:HB3	3:LB:252:LYS:HB2	2.02	0.41
4:LC:175:PRO:O	4:LC:390:ARG:HD3	2.20	0.41
3:LD:205:GLU:HA	3:LD:208:TYR:CD2	2.55	0.41
3:LD:293:MET:HE3	3:LD:367:PHE:CB	2.49	0.41
4:LE:2:ARG:NH1	4:LE:241:SER:O	2.53	0.41
4:LE:167:LEU:HB3	4:LE:169:PHE:CZ	2.55	0.41
4:LI:90:GLU:HG2	4:LI:121:ARG:NH2	2.35	0.41
4:LI:251:ASP:HB3	4:LI:254:GLU:OE1	2.19	0.41
3:LJ:87:PRO:HA	3:LJ:90:PHE:CD2	2.55	0.41
4:LK:333:ALA:HA	4:LK:336:LYS:HD2	2.01	0.41
3:LL:20:PHE:CZ	3:LL:24:ILE:HD11	2.55	0.41
3:LL:121:ARG:O	3:LL:124:ALA:N	2.53	0.41
24:M2:98:HIS:O	24:M2:98:HIS:ND1	2.53	0.41
3:MB:165:ASN:OD1	3:MB:166:THR:N	2.53	0.41
4:MC:10:GLY:HA2	4:MC:145:THR:OG1	2.20	0.41
4:MC:132:LEU:O	4:MC:132:LEU:HD12	2.20	0.41
4:MC:154:MET:HA	4:MC:157:LEU:HG	2.00	0.41
3:MD:348:ASN:OD1	3:MD:348:ASN:N	2.53	0.41
3:MD:362:LYS:HA	3:MD:362:LYS:HD3	1.83	0.41
3:MD:362:LYS:HE2	27:P:309:TRP:CZ3	2.55	0.41
3:MF:40:SER:HB3	3:MF:42:LEU:HD23	2.02	0.41
3:MF:117:LEU:HA	3:MF:120:VAL:HG12	2.01	0.41
3:MF:199:THR:N	3:MF:264:HIS:O	2.53	0.41
4:MG:319:TYR:HA	4:MG:374:ALA:O	2.19	0.41
4:MG:326:LYS:NZ	3:MH:208:TYR:O	2.54	0.41
4:MI:54:SER:N	4:MI:62:VAL:O	2.51	0.41
4:MM:88:HIS:O	4:MM:91:GLN:HG2	2.20	0.41
4:MM:370:LYS:HD3	27:P:46:PHE:HE2	1.85	0.41
26:N4:73:PHE:CE2	26:N4:92:ILE:HG22	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:NA:389:ALA:O	4:NA:393:HIS:HD2	2.03	0.41
3:NB:32:PRO:C	3:NB:83:GLN:HE21	2.25	0.41
4:NC:182:VAL:HG13	4:NC:185:TYR:HD2	1.85	0.41
3:ND:303:CYS:O	3:ND:305:PRO:HD3	2.20	0.41
4:NG:301:GLN:OE1	4:NG:301:GLN:N	2.53	0.41
4:NI:1:MET:O	4:NI:131:GLY:HA3	2.20	0.41
4:NI:368:LEU:HD23	4:NI:368:LEU:H	1.85	0.41
3:NJ:51:TYR:CD1	3:NJ:61:PRO:HA	2.55	0.41
3:NJ:117:LEU:HA	3:NJ:120:VAL:HG22	2.02	0.41
3:NJ:217:LEU:HD11	3:NJ:220:PRO:HB3	2.01	0.41
3:NJ:250:LEU:HD13	3:NJ:253:LEU:HD12	2.03	0.41
4:NK:399:TYR:OH	4:NK:415:GLU:HG3	2.20	0.41
3:NL:139:LEU:N	3:NL:168:SER:OG	2.52	0.41
4:OA:285:GLN:HE22	4:OA:287:SER:HB3	1.84	0.41
4:OA:318:LEU:O	4:OA:375:VAL:HA	2.20	0.41
3:OB:224:ASP:O	3:OB:228:LEU:HG	2.20	0.41
3:OD:40:SER:HB3	3:OD:42:LEU:HD23	2.02	0.41
3:OD:357:PRO:O	3:OD:359:ARG:NH1	2.48	0.41
3:OF:58:LYS:HZ2	3:OF:84:ILE:HD12	1.85	0.41
3:OF:255:VAL:HA	4:OG:407:TRP:CE2	2.55	0.41
3:OF:273:LEU:H	3:OF:292:GLN:HE22	1.67	0.41
3:OF:336:LYS:HD3	3:OF:337:ASN:CG	2.45	0.41
3:OJ:12:CYS:HB3	39:OJ:501:GTP:H5'	2.02	0.41
4:OK:30:ILE:HG13	4:OK:53:PHE:HE2	1.84	0.41
29:P2:191:ASN:O	29:P2:192:ARG:HD3	2.20	0.41
29:P3:335:VAL:HA	29:P3:352:ALA:HB2	2.02	0.41
29:P3:510:TYR:HA	29:P3:517:ILE:HD12	2.02	0.41
4:PA:104:ALA:O	4:PA:108:TYR:N	2.51	0.41
4:PA:256:GLN:HE22	3:PB:397:TRP:HE1	1.68	0.41
3:PB:246:LEU:HB3	3:PB:353:VAL:O	2.20	0.41
4:PE:316:CYS:N	4:PE:378:LEU:O	2.27	0.41
3:PF:385:PHE:HZ	3:PF:408:PHE:HB3	1.84	0.41
3:PH:56:GLY:HA2	37:YM:58:ASN:O	2.20	0.41
3:PH:133:PHE:HD2	3:PH:164:MET:HE1	1.85	0.41
4:PI:251:ASP:HB3	4:PI:254:GLU:OE1	2.20	0.41
3:PJ:11:GLN:OE1	39:PJ:501:GTP:N2	2.53	0.41
3:PJ:189:VAL:HA	3:PJ:192:LEU:HD12	2.02	0.41
3:PL:12:CYS:SG	39:PL:501:GTP:H5'	2.59	0.41
3:PL:182:PRO:HB3	3:PL:381:ILE:HD11	2.02	0.41
4:PM:21:TRP:HD1	4:PM:67:PHE:HZ	1.66	0.41
3:QB:241:ARG:NH1	3:QB:241:ARG:O	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QB:305:PRO:HB3	3:QB:371:SER:OG	2.21	0.41
4:QE:104:ALA:HA	4:QE:107:HIS:HB3	2.01	0.41
4:QE:167:LEU:HD13	4:QE:200:CYS:HB2	2.02	0.41
3:QF:350:LYS:HE3	4:QG:181:VAL:H	1.84	0.41
4:QG:317:MET:HB2	4:QG:375:VAL:HG21	2.00	0.41
3:QH:324:LYS:HD3	4:QI:210:TYR:CE1	2.55	0.41
4:QI:104:ALA:HA	4:QI:107:HIS:HB3	2.01	0.41
4:QI:385:ALA:HA	4:QI:388:TRP:HE3	1.85	0.41
3:QJ:77:ARG:HD3	3:QJ:90:PHE:HE2	1.84	0.41
3:QJ:101:TRP:HB2	3:QJ:184:ASN:HD22	1.85	0.41
4:QK:99:ALA:HB3	4:QK:144:GLY:O	2.19	0.41
3:QL:58:LYS:HE2	3:RL:281:TYR:CE1	2.55	0.41
4:QM:1:MET:HE2	4:QM:2:ARG:H	1.84	0.41
4:QM:187:SER:O	4:QM:191:THR:HG23	2.20	0.41
4:QM:280:LYS:HA	4:QM:280:LYS:HD2	1.77	0.41
3:RB:189:VAL:HA	3:RB:192:LEU:HD12	2.02	0.41
4:RC:206:ASN:OD1	4:RC:206:ASN:N	2.52	0.41
3:RD:305:PRO:HB2	3:RD:310:TYR:HE1	1.85	0.41
3:RD:372:THR:CB	3:RD:375:GLN:HE22	2.34	0.41
4:RE:319:TYR:HB2	4:RE:355:ILE:HD13	2.03	0.41
3:RF:32:PRO:HA	3:RF:81:PHE:CE1	2.55	0.41
3:RF:376:GLU:HA	3:RF:379:LYS:HG2	2.02	0.41
4:RI:11:GLN:OE1	4:RI:11:GLN:N	2.43	0.41
4:RI:52:PHE:HE2	4:RI:243:ARG:HH11	1.68	0.41
4:RI:317:MET:HB2	4:RI:375:VAL:CG2	2.50	0.41
4:RI:331:ALA:O	4:RI:334:THR:OG1	2.23	0.41
3:RL:47:ILE:HG21	3:RL:59:TYR:CZ	2.55	0.41
4:RM:99:ALA:HB3	4:RM:144:GLY:O	2.20	0.41
3:SB:87:PRO:HA	3:SB:90:PHE:CD2	2.54	0.41
4:SC:368:LEU:HD23	4:SC:368:LEU:H	1.85	0.41
3:SF:121:ARG:HA	3:SF:124:ALA:HB3	2.01	0.41
3:SF:324:LYS:HD3	4:SG:210:TYR:CE1	2.55	0.41
4:SG:260:VAL:O	3:SH:397:TRP:HH2	2.02	0.41
4:SG:318:LEU:O	4:SG:375:VAL:HA	2.20	0.41
3:SH:183:TYR:OH	3:SH:388:MET:HG3	2.19	0.41
4:SI:393:HIS:HA	4:SI:396:ASP:HB2	2.02	0.41
3:SJ:46:ARG:HH22	4:SK:73:THR:HG23	1.86	0.41
3:SJ:52:ASN:ND2	3:SJ:62:ARG:HD3	2.35	0.41
3:SJ:151:LEU:HA	3:SJ:154:LYS:HE3	2.02	0.41
4:SK:5:ILE:HD13	4:SK:64:ARG:HB3	2.02	0.41
4:SM:270:ALA:HA	4:SM:377:MET:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:SM:333:ALA:HA	4:SM:336:LYS:HD2	2.01	0.41
4:SM:397:LEU:O	4:SM:401:LYS:HE2	2.20	0.41
4:TC:2:ARG:NH1	4:TC:241:SER:O	2.53	0.41
4:TC:184:PRO:HB2	4:TC:398:MET:HE1	2.01	0.41
3:TD:152:ILE:O	3:TD:156:ARG:HG2	2.20	0.41
3:TD:182:PRO:HB2	3:TD:388:MET:HE1	2.02	0.41
3:TD:282:ARG:HE	3:TD:288:GLU:CD	2.28	0.41
4:TE:263:PRO:HB2	4:TE:264:ARG:NH1	2.35	0.41
3:TF:68:LEU:HD12	3:TF:97:ALA:HB2	2.01	0.41
3:TF:185:ALA:O	3:TF:189:VAL:HG22	2.20	0.41
3:TF:380:ARG:O	3:TF:384:GLN:HG2	2.20	0.41
4:TG:315:CYS:O	4:TG:351:PHE:HA	2.19	0.41
3:TH:318:ARG:HD2	3:TH:358:PRO:HG3	2.02	0.41
3:TH:403:MET:HE2	3:TH:403:MET:N	2.34	0.41
4:TI:35:GLN:HG2	4:TI:59:GLY:O	2.20	0.41
4:TI:235:VAL:HA	4:TI:238:ILE:HG12	2.01	0.41
4:TI:252:LEU:HD12	4:TI:253:THR:N	2.35	0.41
3:TJ:137:HIS:O	3:TJ:168:SER:HA	2.19	0.41
3:TJ:256:ASN:HD21	4:TK:101:ASN:HD22	1.69	0.41
4:TK:196:GLU:HG2	4:TK:197:HIS:ND1	2.35	0.41
4:TK:389:ALA:HA	4:TK:392:ASP:OD2	2.21	0.41
3:TL:15:GLN:HA	3:TL:15:GLN:OE1	2.13	0.41
3:TL:271:ALA:HB2	3:TL:365:ALA:HB3	2.01	0.41
3:TN:317:PHE:HE2	3:TN:326:VAL:HG23	1.85	0.41
33:U:445:GLU:HA	33:U:448:ARG:HG2	2.01	0.41
33:U:475:ALA:HA	33:U:478:LEU:HD12	2.02	0.41
3:UD:109:GLY:O	3:UD:113:VAL:HG13	2.19	0.41
3:UD:375:GLN:HA	3:UD:378:PHE:CE1	2.55	0.41
4:UE:192:HIS:CE1	4:UE:193:THR:HG23	2.55	0.41
3:UF:266:PHE:CD1	3:UF:370:ASN:HB2	2.55	0.41
4:UG:210:TYR:HE1	4:UG:222:PRO:HD2	1.85	0.41
3:UH:169:VAL:HA	3:UH:202:ILE:HB	2.01	0.41
4:UI:3:GLU:CD	4:UI:131:GLY:H	2.27	0.41
4:UI:146:GLY:N	39:UI:501:GTP:O2B	2.53	0.41
4:UI:154:MET:HE1	4:UI:197:HIS:HB2	2.02	0.41
3:UJ:73:MET:HE1	3:UJ:92:PHE:CG	2.55	0.41
3:UL:149:THR:HA	3:UL:152:ILE:HG12	2.02	0.41
4:VA:175:PRO:O	4:VA:390:ARG:HD3	2.20	0.41
3:VB:51:TYR:CD1	3:VB:61:PRO:HA	2.55	0.41
4:VC:2:ARG:HA	4:VC:133:GLN:NE2	2.35	0.41
4:VC:99:ALA:HB3	4:VC:144:GLY:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:VC:105:ARG:O	4:VC:109:THR:OG1	2.22	0.41
3:VD:392:LYS:HD2	3:VD:392:LYS:O	2.20	0.41
4:VE:2:ARG:HA	4:VE:133:GLN:HE22	1.85	0.41
4:VE:66:VAL:HG12	4:VE:68:VAL:HG13	2.02	0.41
4:VE:149:PHE:O	4:VE:153:LEU:HD23	2.20	0.41
4:VE:251:ASP:HB3	4:VE:254:GLU:OE1	2.20	0.41
3:VF:318:ARG:HD3	3:VF:358:PRO:HG3	2.01	0.41
3:VF:330:MET:HE3	3:VF:330:MET:O	2.21	0.41
4:VG:149:PHE:O	4:VG:152:LEU:HG	2.19	0.41
4:VG:324:VAL:HG11	3:VH:219:THR:HB	2.02	0.41
4:VK:161:TYR:HB3	4:VK:164:LYS:NZ	2.35	0.41
4:VK:279:GLU:HA	33:X:424:ARG:HH12	1.85	0.41
4:WA:22:GLU:O	4:WA:26:LEU:HD23	2.19	0.41
3:WD:113:VAL:HA	3:WD:116:VAL:HG22	2.02	0.41
3:WD:235:GLY:O	3:WD:238:THR:OG1	2.23	0.41
3:WD:372:THR:HG21	3:WD:426:GLN:HB2	2.00	0.41
3:WF:137:HIS:O	3:WF:168:SER:HA	2.20	0.41
4:WG:167:LEU:HD13	4:WG:200:CYS:HB2	2.02	0.41
3:WH:230:SER:HA	3:WH:233:MET:HG2	2.01	0.41
3:WJ:238:THR:HB	3:WJ:242:PHE:HD2	1.85	0.41
4:WK:113:GLU:N	4:WK:113:GLU:OE1	2.50	0.41
34:XA:168:SER:HB2	34:XA:172:TYR:CD1	2.55	0.41
34:XB:15:TYR:CD1	34:XB:164:ARG:HB2	2.55	0.41
34:XB:76:LEU:HD13	34:XB:167:PHE:CE1	2.55	0.41
35:XH:166:VAL:HB	35:XH:219:TYR:CE2	2.55	0.41
37:YB:82:HIS:HE2	37:YB:86:LEU:HD21	1.85	0.41
37:YC:162:VAL:HA	37:YC:165:HIS:ND1	2.35	0.41
37:YF:136:GLY:O	37:YF:140:LEU:HG	2.21	0.41
37:YI:86:LEU:HB3	37:YI:87:HIS:H	1.54	0.41
37:YL:159:PRO:HB2	37:YL:161:LYS:HG2	2.03	0.41
37:YM:110:LEU:HD23	37:YM:140:LEU:HD22	2.00	0.41
37:YN:131:ARG:N	37:YN:131:ARG:HD2	2.35	0.41
37:YO:47:GLU:CD	37:YO:50:GLN:HE22	2.29	0.41
37:YP:11:ILE:HA	37:YP:14:LYS:HZ3	1.84	0.41
37:YP:25:PHE:HE1	37:YP:66:LEU:HA	1.85	0.41
37:YS:83:PHE:CD2	37:YS:148:MET:HE2	2.55	0.41
37:YT:140:LEU:O	37:YT:144:VAL:HG23	2.19	0.41
38:a:35:TRP:HB3	38:a:39:LEU:HD13	2.02	0.41
2:A3:148:ASN:O	2:A3:152:ARG:HG2	2.20	0.41
2:A4:67:LEU:HB3	2:A4:71:ARG:HE	1.85	0.41
4:AC:22:GLU:HG2	4:AC:83:TYR:HE2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AC:66:VAL:HG12	4:AC:68:VAL:HG13	2.02	0.41
4:AC:213:CYS:O	4:AC:218:ASP:N	2.53	0.41
4:AC:338:LYS:NZ	4:AC:339:ARG:H	2.17	0.41
3:AH:374:ILE:HG22	3:AH:378:PHE:CE2	2.55	0.41
4:AI:140:SER:HA	4:AI:170:ALA:HB1	2.01	0.41
4:AI:333:ALA:O	4:AI:337:THR:HG23	2.20	0.41
3:AJ:198:GLU:OE2	3:AJ:266:PHE:HD2	2.02	0.41
3:AL:152:ILE:HA	3:AL:155:ILE:HG12	2.02	0.41
4:AM:171:ILE:HD12	4:AM:204:VAL:HG13	2.02	0.41
5:B1:119:LEU:HD22	5:B1:389:LYS:HZ2	1.86	0.41
5:B2:86:ASP:HA	5:B2:169:ARG:NH2	2.35	0.41
5:B3:203:VAL:HG23	8:D3:118:GLN:HE22	1.84	0.41
5:B6:141:VAL:O	5:B6:145:GLU:OE1	2.38	0.41
5:B7:7:LYS:HZ3	8:D7:409:ARG:NH1	2.17	0.41
5:B7:177:ARG:O	5:B7:180:MET:HG3	2.20	0.41
5:B9:349:ILE:HG13	5:B9:353:LYS:HZ3	1.85	0.41
4:BC:357:TYR:CD2	14:G4:209:PRO:HG2	2.55	0.41
4:BC:360:PRO:HG2	4:BC:374:ALA:HB3	2.02	0.41
3:BD:130:LEU:HB2	3:BD:162:ARG:NH1	2.35	0.41
4:BE:25:CYS:O	4:BE:30:ILE:N	2.48	0.41
3:BF:50:TYR:HE2	3:BF:241:ARG:HH21	1.68	0.41
4:BG:119:LEU:HD23	4:BG:122:ILE:HD11	2.01	0.41
4:BG:167:LEU:HB3	4:BG:169:PHE:CZ	2.55	0.41
3:BH:246:LEU:HD22	3:BH:354:CYS:HA	2.02	0.41
4:BI:9:VAL:HG11	4:BI:150:ALA:HB2	2.01	0.41
4:BK:88:HIS:HD2	4:CK:284:GLU:OE2	2.03	0.41
4:BK:89:PRO:HG3	15:H5:17:ILE:CG1	2.50	0.41
4:BK:142:GLY:HA2	4:BK:183:GLU:HG2	2.02	0.41
3:BL:77:ARG:HD3	3:BL:90:PHE:CE2	2.56	0.41
3:BL:84:ILE:O	3:BL:86:ARG:NH1	2.53	0.41
3:BL:101:TRP:CE3	3:BL:187:LEU:HD13	2.55	0.41
4:BM:175:PRO:O	4:BM:390:ARG:HD3	2.20	0.41
4:BM:212:ILE:HG13	4:BM:215:ARG:NH2	2.35	0.41
4:BM:255:PHE:O	4:BM:259:LEU:HB2	2.20	0.41
4:BM:274:PRO:HG3	4:BM:374:ALA:HA	2.01	0.41
4:BM:319:TYR:HB2	4:BM:355:ILE:HD13	2.01	0.41
6:C:43:TYR:CG	6:C:44:GLU:N	2.88	0.41
6:C:212:ARG:HE	6:C:222:ASN:HD21	1.69	0.41
6:C:260:CYS:HB2	6:C:386:VAL:HG22	2.02	0.41
7:C2:258:LEU:HD23	7:C2:261:LYS:NZ	2.35	0.41
7:C2:327:ASN:O	7:C2:331:VAL:HG23	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C3:351:ILE:O	7:C3:355:VAL:HG23	2.19	0.41
7:C6:171:THR:O	7:C6:175:THR:HG23	2.20	0.41
7:C6:249:SER:HA	7:C6:252:HIS:ND1	2.35	0.41
7:C8:483:THR:OG1	8:D8:403:ARG:HB3	2.20	0.41
7:C9:473:CYS:SG	7:C9:477:ARG:NE	2.93	0.41
3:CB:31:ASP:OD1	3:CB:31:ASP:N	2.51	0.41
3:CB:65:LEU:HB3	3:CB:90:PHE:HD1	1.85	0.41
3:CB:384:GLN:O	3:CB:388:MET:HG2	2.19	0.41
4:CC:22:GLU:O	4:CC:26:LEU:HG	2.19	0.41
4:CC:260:VAL:HG23	4:CC:265:ILE:O	2.20	0.41
4:CC:332:ILE:O	4:CC:336:LYS:HG3	2.20	0.41
3:CD:317:PHE:HE2	3:CD:326:VAL:HG23	1.84	0.41
4:CE:265:ILE:HA	4:CE:267:PHE:CE2	2.55	0.41
3:CF:192:LEU:O	3:CF:196:THR:HG22	2.20	0.41
3:CF:299:MET:SD	3:CF:301:ALA:N	2.93	0.41
3:CF:325:GLU:HG2	3:CF:326:VAL:N	2.35	0.41
4:CG:132:LEU:HD13	4:CG:164:LYS:HE3	2.02	0.41
3:CH:213:ARG:NH2	3:CH:297:LYS:HD3	2.35	0.41
3:CH:272:PRO:HA	3:CH:292:GLN:OE1	2.20	0.41
4:CI:90:GLU:OE1	4:CI:90:GLU:N	2.53	0.41
4:CK:47:ASP:HB3	4:CK:49:PHE:CE2	2.56	0.41
4:CK:438:ASP:C	3:CL:391:ARG:HH12	2.28	0.41
3:CL:227:HIS:HA	3:CL:230:SER:OG	2.20	0.41
4:CM:213:CYS:O	4:CM:219:ILE:N	2.49	0.41
7:Cb:397:GLN:NE2	7:Cc:283:TYR:HA	2.34	0.41
6:D:121:ALA:HB1	6:D:124:LYS:HG3	2.02	0.41
6:D:203:SER:HB2	6:D:213:ALA:HB2	2.01	0.41
6:D:255:PHE:HA	6:D:258:CYS:SG	2.60	0.41
8:D2:192:ARG:NH1	10:E1:31:TYR:HB2	2.35	0.41
8:D2:440:VAL:HA	8:D2:443:LEU:HD12	2.02	0.41
8:D3:410:MET:HA	8:D3:413:GLU:OE1	2.20	0.41
8:D4:381:VAL:O	8:D4:384:LEU:HG	2.20	0.41
4:DA:176:GLN:NE2	4:DA:177:VAL:HG23	2.36	0.41
4:DA:271:THR:HA	4:DA:302:MET:HE1	2.01	0.41
4:DA:327:ASP:OD1	4:DA:328:VAL:N	2.53	0.41
3:DB:45:GLU:OE1	15:H2:287:GLY:HA3	2.20	0.41
3:DB:180:VAL:HG22	3:DB:183:TYR:HB2	2.02	0.41
4:DC:214:ARG:NH1	4:DC:215:ARG:HG2	2.36	0.41
4:DE:186:ASN:OD1	4:DE:187:SER:N	2.53	0.41
4:DE:279:GLU:O	4:DE:283:HIS:HD2	2.03	0.41
4:DG:153:LEU:HD12	4:DG:154:MET:N	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DG:229:ARG:NH2	4:DG:368:LEU:HD22	2.35	0.41
4:DG:266:HIS:C	4:DG:268:PRO:HD3	2.46	0.41
4:DG:327:ASP:OD1	4:DG:328:VAL:N	2.53	0.41
4:DI:118:VAL:HA	4:DI:121:ARG:CG	2.50	0.41
4:DI:420:GLU:HA	4:DI:423:GLU:OE2	2.21	0.41
4:DK:90:GLU:HG2	4:DK:121:ARG:NH2	2.34	0.41
4:DK:263:PRO:O	4:DK:264:ARG:HB2	2.20	0.41
39:DK:501:GTP:N3	39:DK:501:GTP:O4'	2.51	0.41
10:E1:48:ARG:HG2	10:E1:49:TRP:N	2.34	0.41
4:EA:45:GLY:HA2	4:EA:49:PHE:HE2	1.86	0.41
4:EA:219:ILE:HG21	4:EA:222:PRO:HB3	2.02	0.41
4:EC:160:ASP:OD1	4:EC:161:TYR:N	2.53	0.41
4:EC:174:ALA:HB3	4:EC:177:VAL:O	2.21	0.41
4:EC:280:LYS:HD2	4:EC:280:LYS:HA	1.74	0.41
3:ED:8:GLN:OE1	3:ED:8:GLN:N	2.53	0.41
4:EG:116:ASP:N	4:EG:116:ASP:OD1	2.51	0.41
4:EI:176:GLN:NE2	4:EI:207:GLU:OE2	2.54	0.41
3:EJ:31:ASP:OD2	3:EJ:33:THR:OG1	2.38	0.41
3:EJ:109:GLY:O	3:EJ:113:VAL:HG13	2.20	0.41
3:EJ:137:HIS:O	3:EJ:168:SER:HA	2.20	0.41
4:EK:152:LEU:HD12	4:EK:153:LEU:N	2.36	0.41
4:EK:271:THR:HB	4:EK:377:MET:HE3	2.02	0.41
3:EL:204:ASN:HB2	3:EL:208:TYR:CZ	2.55	0.41
11:F2:148:ASP:O	11:F2:151:PHE:HB3	2.20	0.41
11:F2:204:ILE:HG13	11:F3:90:TYR:OH	2.19	0.41
11:F2:376:MET:O	11:F2:379:GLU:HG3	2.20	0.41
11:F5:129:GLN:HA	11:F5:132:HIS:ND1	2.36	0.41
11:F6:113:ALA:O	11:F6:117:THR:HG23	2.20	0.41
11:F6:201:ARG:NH1	11:F6:464:ILE:HB	2.36	0.41
11:F7:379:GLU:HA	11:F7:382:ILE:HD12	2.01	0.41
4:FA:101:ASN:HA	4:FA:144:GLY:HA2	2.01	0.41
3:FB:330:MET:HA	3:FB:333:VAL:HG12	2.01	0.41
4:FE:1:MET:SD	4:FE:3:GLU:HB3	2.60	0.41
4:FE:154:MET:HA	4:FE:157:LEU:HG	2.02	0.41
3:FF:40:SER:HB3	3:FF:42:LEU:HD23	2.01	0.41
3:FF:162:ARG:HA	3:FF:251:ARG:NH2	2.36	0.41
4:FG:115:VAL:O	4:FG:119:LEU:N	2.45	0.41
4:FG:388:TRP:HA	4:FG:391:LEU:HG	2.02	0.41
3:FH:4:ILE:HB	3:FH:50:TYR:CE1	2.55	0.41
3:FH:239:CYS:SG	3:FH:316:VAL:HG11	2.60	0.41
4:FI:204:VAL:HG22	4:FI:209:ILE:HD11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FI:254:GLU:OE1	4:FI:254:GLU:N	2.43	0.41
3:FJ:318:ARG:C	3:FJ:321:MET:HE1	2.46	0.41
3:FL:68:LEU:HD11	3:FL:97:ALA:HB2	2.03	0.41
3:FL:118:ASP:C	3:FL:122:LYS:HZ3	2.27	0.41
3:FL:147:MET:O	3:FL:151:LEU:HG	2.21	0.41
11:Fb:107:GLU:CD	11:Fb:110:ARG:HE	2.29	0.41
11:Fb:364:ILE:O	11:Fb:368:ILE:HG23	2.21	0.41
11:Fc:470:MET:SD	11:Fc:474:LYS:HB3	2.61	0.41
11:Fe:329:SER:O	11:Fe:332:MET:HG3	2.21	0.41
11:Ff:127:LYS:HD2	11:Fg:385:LYS:CE	2.50	0.41
11:Ff:233:ALA:HA	11:Ff:236:ILE:HG22	2.03	0.41
11:Ff:411:VAL:O	11:Ff:411:VAL:HG13	2.19	0.41
11:Fi:247:GLN:O	11:Fi:251:GLU:OE1	2.39	0.41
11:Fi:428:GLN:O	11:Fi:432:LEU:HD13	2.20	0.41
11:Fk:127:LYS:O	11:Fk:131:ILE:HG12	2.20	0.41
11:Fk:365:LEU:HB3	11:Fk:369:PHE:CZ	2.55	0.41
11:Fk:386:GLU:HG2	11:Fk:387:TYR:N	2.35	0.41
11:Fm:127:LYS:HA	11:Fm:130:LEU:HG	2.02	0.41
12:G:83:VAL:HG13	32:T:342:LEU:HD13	2.02	0.41
13:G1:238:PHE:HB2	13:G1:269:MET:HA	2.02	0.41
13:G1:419:VAL:HG12	13:G1:443:PHE:HD1	1.85	0.41
13:G2:217:LYS:CG	13:G2:218:GLU:H	2.33	0.41
13:G2:222:LYS:HG3	13:G2:223:TYR:H	1.85	0.41
13:G2:248:ILE:HG13	13:G2:260:ARG:O	2.19	0.41
13:G2:440:PHE:HE2	13:G2:505:ILE:HG12	1.85	0.41
13:G3:45:MET:HA	13:G3:50:ASP:O	2.21	0.41
14:G4:403:PHE:O	14:G4:407:VAL:HG23	2.19	0.41
14:G4:582:PHE:HA	14:G4:585:ILE:HD11	2.02	0.41
14:G4:634:ASN:ND2	14:G4:637:MET:HE3	2.35	0.41
14:G4:662:CYS:SG	14:G4:667:LEU:HB2	2.60	0.41
14:G5:47:LEU:HG	14:G5:51:GLN:HB3	2.02	0.41
14:G5:404:ARG:HD3	14:G5:412:THR:HG23	2.02	0.41
14:G5:505:GLU:OE1	14:G5:505:GLU:HA	2.18	0.41
14:G5:566:PHE:CE1	14:G5:585:ILE:HD12	2.55	0.41
14:G6:183:ILE:HD12	14:G6:183:ILE:H	1.86	0.41
14:G6:286:LYS:HA	14:G6:286:LYS:HD2	1.87	0.41
4:GA:21:TRP:HD1	4:GA:53:PHE:HE1	1.69	0.41
3:GB:20:PHE:O	3:GB:24:ILE:HG12	2.20	0.41
3:GF:84:ILE:C	3:GF:86:ARG:HH22	2.29	0.41
3:GF:122:LYS:O	3:GF:126:SER:N	2.48	0.41
3:GF:211:CYS:HA	3:GF:215:LEU:HD12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GF:312:THR:OG1	3:GF:370:ASN:HB3	2.21	0.41
3:GF:412:GLU:O	3:GF:416:ASN:N	2.36	0.41
4:GG:207:GLU:O	4:GG:211:ASP:N	2.49	0.41
3:GH:25:SER:O	3:GH:29:GLY:N	2.53	0.41
3:GH:267:MET:O	3:GH:368:ILE:HD12	2.20	0.41
4:GI:50:ASN:OD1	4:GI:51:THR:N	2.52	0.41
4:GK:186:ASN:O	4:GK:190:THR:HG23	2.20	0.41
3:GL:226:ASN:HA	3:GL:229:VAL:HG22	2.02	0.41
15:H1:13:GLU:HG2	15:H1:40:ALA:CA	2.48	0.41
15:H3:214:GLN:CD	15:H3:215:ARG:HD3	2.45	0.41
15:H6:24:TYR:H	15:H6:27:LEU:HD23	1.86	0.41
15:H6:45:ASP:O	15:H6:49:GLN:NE2	2.44	0.41
3:HB:3:GLU:HB2	3:HB:62:ARG:NH2	2.34	0.41
3:HB:87:PRO:HA	3:HB:90:PHE:CD2	2.55	0.41
3:HB:326:VAL:HA	3:HB:329:GLN:CG	2.49	0.41
4:HC:185:TYR:HB3	4:HC:418:PHE:HZ	1.85	0.41
4:HC:363:VAL:HG22	4:HC:368:LEU:HD22	2.02	0.41
3:HD:267:MET:N	3:HD:369:GLY:O	2.36	0.41
4:HE:1:MET:HE3	4:HE:50:ASN:ND2	2.36	0.41
3:HF:190:HIS:O	3:HF:193:VAL:HG12	2.20	0.41
3:HF:324:LYS:CD	4:HG:221:ARG:HA	2.50	0.41
3:HH:276:ARG:O	3:HH:276:ARG:NE	2.51	0.41
3:HJ:286:VAL:HG12	3:HJ:329:GLN:HG3	2.02	0.41
3:HL:157:GLU:HG2	3:HL:158:GLU:N	2.35	0.41
4:IA:2:ARG:NH1	4:IA:241:SER:O	2.53	0.41
4:IA:154:MET:HA	4:IA:157:LEU:HG	2.01	0.41
4:IA:304:LYS:O	4:IA:304:LYS:HG3	2.20	0.41
4:IA:322:ASP:OD1	4:IA:372:GLN:HB3	2.20	0.41
3:IB:51:TYR:CD1	3:IB:61:PRO:HA	2.55	0.41
3:IB:274:THR:HG21	3:IB:279:GLN:HG3	2.01	0.41
4:IC:3:GLU:CD	4:IC:132:LEU:H	2.28	0.41
4:IC:35:GLN:HG2	4:IC:59:GLY:O	2.20	0.41
4:IC:368:LEU:HD23	4:IC:368:LEU:H	1.85	0.41
3:ID:309:ARG:O	3:ID:371:SER:OG	2.31	0.41
3:IF:20:PHE:CZ	3:IF:24:ILE:HD11	2.55	0.41
4:IG:318:LEU:O	4:IG:375:VAL:HA	2.20	0.41
4:II:310:GLY:HA3	4:II:383:ALA:HB2	2.02	0.41
3:IJ:315:ALA:HA	3:IJ:367:PHE:HA	2.02	0.41
4:IK:160:ASP:OD1	4:IK:161:TYR:N	2.53	0.41
3:IL:256:ASN:HD21	4:IM:101:ASN:ND2	2.17	0.41
3:IL:380:ARG:O	3:IL:384:GLN:HG2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IL:399:THR:HA	3:IL:403:MET:O	2.21	0.41
4:IM:46:ASP:OD1	4:IM:50:ASN:ND2	2.54	0.41
19:J2:32:ASN:O	19:J2:105:CYS:N	2.51	0.41
19:J3:27:SER:HB3	19:J3:100:ARG:HA	2.03	0.41
19:J3:156:GLU:HA	19:J3:159:LEU:HG	2.03	0.41
4:JA:141:PHE:C	4:JA:143:GLY:H	2.29	0.41
3:JB:217:LEU:O	3:JB:219:THR:N	2.53	0.41
4:JE:318:LEU:O	4:JE:375:VAL:HA	2.20	0.41
4:JG:2:ARG:NH1	4:JG:241:SER:O	2.53	0.41
4:JG:123:ARG:HD2	4:JG:124:LYS:N	2.34	0.41
4:JG:175:PRO:HB3	4:JG:390:ARG:HD2	2.02	0.41
4:JG:319:TYR:HB2	4:JG:355:ILE:HD13	2.02	0.41
3:JH:165:ASN:HD21	3:JH:233:MET:HE1	1.84	0.41
4:JK:418:PHE:O	4:JK:422:ARG:NH2	2.53	0.41
21:K1:367:PHE:HA	21:K1:370:GLU:OE2	2.20	0.41
21:K2:179:VAL:O	21:K2:183:GLY:N	2.53	0.41
21:K2:387:LEU:HD22	21:K2:392:LYS:CA	2.50	0.41
21:K4:117:ALA:O	21:K4:121:GLN:HG3	2.20	0.41
21:K4:210:LYS:O	21:K4:213:MET:N	2.53	0.41
21:K4:237:TYR:O	21:K4:240:GLU:HB2	2.20	0.41
4:KA:138:PHE:HE1	4:KA:169:PHE:HD2	1.69	0.41
4:KA:141:PHE:HD2	4:KA:173:PRO:HD3	1.85	0.41
3:KB:9:ALA:O	3:KB:13:GLY:HA3	2.20	0.41
3:KB:31:ASP:OD1	3:KB:31:ASP:N	2.52	0.41
3:KB:173:PRO:HD3	3:KB:203:ASP:OD1	2.20	0.41
4:KC:70:LEU:HA	4:KC:95:GLY:HA3	2.02	0.41
3:KD:228:LEU:O	3:KD:232:THR:HG23	2.21	0.41
3:KD:267:MET:O	3:KD:368:ILE:HD12	2.21	0.41
4:KE:3:GLU:CD	4:KE:131:GLY:H	2.28	0.41
4:KE:50:ASN:OD1	4:KE:51:THR:N	2.53	0.41
3:KF:51:TYR:CD1	3:KF:61:PRO:HA	2.56	0.41
3:KF:385:PHE:HZ	3:KF:408:PHE:HB3	1.84	0.41
4:KG:139:HIS:O	4:KG:170:ALA:HA	2.20	0.41
3:KH:101:TRP:HB2	3:KH:184:ASN:HD22	1.84	0.41
4:KI:6:SER:HB3	4:KI:65:ALA:HB2	2.02	0.41
4:KI:122:ILE:O	4:KI:126:ALA:N	2.41	0.41
4:KK:386:GLU:O	4:KK:390:ARG:N	2.45	0.41
22:L3:161:ARG:O	22:L3:165:VAL:HG23	2.20	0.41
22:L4:62:PHE:O	22:L4:64:LYS:HD2	2.21	0.41
4:LA:105:ARG:HG2	4:LA:109:THR:HG21	2.02	0.41
4:LA:175:PRO:HB3	4:LA:390:ARG:HD2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:LC:167:LEU:HB3	4:LC:169:PHE:CZ	2.55	0.41
4:LC:290:GLU:HG2	4:LC:291:ILE:N	2.35	0.41
3:LD:246:LEU:HB3	3:LD:353:VAL:O	2.19	0.41
3:LD:409:THR:O	3:LD:412:GLU:HG3	2.20	0.41
4:LE:132:LEU:HD13	4:LE:164:LYS:HE2	2.02	0.41
4:LE:387:ALA:O	4:LE:391:LEU:HG	2.19	0.41
3:LF:54:ALA:HB3	3:LF:58:LYS:HG3	2.01	0.41
3:LF:306:ARG:O	3:LF:306:ARG:NE	2.42	0.41
3:LH:40:SER:HB3	3:LH:42:LEU:HD23	2.00	0.41
3:LJ:134:GLN:HA	3:LJ:165:ASN:O	2.20	0.41
3:LJ:357:PRO:HB3	3:LJ:362:LYS:HA	2.02	0.41
3:LL:100:ASN:ND2	3:LL:398:TYR:HE1	2.18	0.41
3:LL:289:LEU:O	3:LL:293:MET:N	2.48	0.41
23:M:159:ASN:ND2	23:M:162:ARG:H	2.19	0.41
3:MB:292:GLN:HA	3:MB:295:ASP:OD2	2.19	0.41
4:MC:143:GLY:HA3	4:MC:147:SER:H	1.84	0.41
4:MC:174:ALA:HB1	4:MC:207:GLU:OE2	2.19	0.41
4:MC:363:VAL:H	4:MC:368:LEU:HD21	1.85	0.41
3:MD:152:ILE:O	3:MD:156:ARG:HG2	2.20	0.41
3:MD:310:TYR:HA	3:MD:371:SER:HG	1.85	0.41
4:ME:251:ASP:HB3	4:ME:254:GLU:OE1	2.21	0.41
3:MF:87:PRO:HA	3:MF:90:PHE:CD2	2.55	0.41
3:MF:175:VAL:HG22	3:MF:177:ASP:H	1.84	0.41
3:MF:306:ARG:O	3:MF:306:ARG:NE	2.49	0.41
4:MG:334:THR:O	4:MG:337:THR:OG1	2.27	0.41
3:MH:9:ALA:O	3:MH:13:GLY:HA3	2.20	0.41
3:MH:350:LYS:HE3	4:MI:181:VAL:N	2.35	0.41
3:MH:376:GLU:O	3:MH:380:ARG:N	2.45	0.41
3:MH:390:ARG:NH2	28:O2:42:ILE:HG23	2.35	0.41
3:MH:405:GLU:O	3:MH:409:THR:HG23	2.20	0.41
3:MJ:130:LEU:HB2	3:MJ:162:ARG:HH11	1.85	0.41
3:MJ:286:VAL:HA	3:MJ:289:LEU:HB2	2.02	0.41
3:ML:13:GLY:HA2	3:ML:16:ILE:HD12	2.02	0.41
4:MM:42:ILE:HG21	4:MM:59:GLY:HA2	2.03	0.41
26:N2:89:LYS:HA	26:N2:92:ILE:HD12	2.02	0.41
26:N3:68:LYS:HG3	26:N3:69:ASP:N	2.33	0.41
26:N3:160:LYS:NZ	4:VI:90:GLU:HB3	2.35	0.41
3:NB:255:VAL:HA	4:NC:407:TRP:NE1	2.35	0.41
3:ND:5:VAL:HG23	3:ND:130:LEU:HD21	2.03	0.41
3:NF:415:MET:O	3:NF:419:VAL:HG23	2.20	0.41
3:NH:23:VAL:O	3:NH:27:GLU:HG2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NH:145:SER:HB2	3:NH:188:SER:HB3	2.02	0.41
4:NI:138:PHE:HE1	4:NI:169:PHE:CD2	2.33	0.41
4:NI:224:TYR:CE2	39:NI:501:GTP:O6	2.73	0.41
4:NI:263:PRO:O	4:NI:264:ARG:HB2	2.19	0.41
4:NI:338:LYS:NZ	4:NI:339:ARG:H	2.17	0.41
3:NJ:52:ASN:OD1	3:NJ:62:ARG:NH1	2.54	0.41
3:NJ:266:PHE:CD1	3:NJ:370:ASN:HB2	2.56	0.41
4:NK:2:ARG:HA	4:NK:133:GLN:HE22	1.84	0.41
4:NK:12:ALA:O	39:NK:501:GTP:N1	2.53	0.41
4:NK:389:ALA:HA	4:NK:392:ASP:OD2	2.21	0.41
4:NK:428:LEU:HD12	4:NK:432:TYR:CZ	2.55	0.41
28:O2:25:ALA:HB1	28:O2:26:ARG:HH12	1.85	0.41
4:OA:125:LEU:HD13	4:OA:128:LEU:HD21	2.02	0.41
4:OA:167:LEU:HB3	4:OA:169:PHE:CE1	2.55	0.41
3:OB:106:TYR:HD2	3:OB:401:GLU:OE2	2.04	0.41
3:OB:204:ASN:OD1	3:OB:205:GLU:N	2.53	0.41
3:OB:330:MET:HE2	3:OB:351:THR:HG21	2.02	0.41
4:OC:2:ARG:HA	4:OC:133:GLN:HE22	1.86	0.41
4:OC:66:VAL:HG12	4:OC:68:VAL:HG13	2.02	0.41
4:OE:295:CYS:HB2	4:OE:377:MET:HG2	2.01	0.41
3:OF:70:PRO:O	3:OF:73:MET:HG2	2.19	0.41
3:OF:137:HIS:O	3:OF:168:SER:HA	2.21	0.41
4:OG:245:ASP:O	4:OG:356:ASN:ND2	2.52	0.41
3:OJ:324:LYS:HE2	4:OK:222:PRO:HG2	2.01	0.41
4:OK:280:LYS:HD2	4:OK:280:LYS:HA	1.80	0.41
29:P2:93:ILE:HD12	29:P2:117:LEU:HD21	2.02	0.41
29:P2:340:PHE:HD2	29:P2:594:ARG:HB3	1.83	0.41
29:P2:355:ASP:O	29:P2:356:ILE:HD13	2.19	0.41
4:PA:216:ASN:ND2	4:PA:275:VAL:O	2.53	0.41
3:PB:41:ASP:OD1	3:PB:41:ASP:N	2.52	0.41
4:PC:171:ILE:C	4:PC:203:MET:HE3	2.44	0.41
4:PC:389:ALA:HA	4:PC:392:ASP:OD2	2.20	0.41
4:PE:88:HIS:CE1	4:PE:121:ARG:HH22	2.37	0.41
4:PE:174:ALA:HB3	4:PE:177:VAL:O	2.20	0.41
3:PF:290:THR:HG21	3:PF:329:GLN:HG3	2.03	0.41
3:PH:32:PRO:HA	3:PH:81:PHE:CE1	2.56	0.41
4:PI:105:ARG:HA	4:PI:109:THR:HG23	2.02	0.41
4:PI:234:ILE:O	4:PI:237:SER:OG	2.36	0.41
3:PJ:4:ILE:HB	3:PJ:50:TYR:CE1	2.55	0.41
3:PJ:217:LEU:O	3:PJ:219:THR:N	2.52	0.41
4:PK:3:GLU:CD	4:PK:131:GLY:H	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:PK:28:HIS:HB2	4:PK:30:ILE:HG12	2.02	0.41
4:PK:263:PRO:O	4:PK:264:ARG:HB2	2.20	0.41
4:PK:420:GLU:HA	4:PK:423:GLU:CD	2.45	0.41
3:PL:183:TYR:CG	3:PL:388:MET:HE3	2.55	0.41
4:PM:363:VAL:H	4:PM:368:LEU:HD21	1.85	0.41
30:Q1:1377:GLU:HG2	30:Q1:1378:GLU:N	2.35	0.41
30:Q1:1488:GLU:OE1	30:Q1:1492:HIS:NE2	2.53	0.41
30:Q2:1425:LYS:HD2	30:Q2:1512:ARG:NH2	2.34	0.41
30:Q3:1424:ASP:OD1	30:Q3:1425:LYS:N	2.53	0.41
3:QB:12:CYS:SG	39:QB:501:GTP:H5'	2.61	0.41
3:QB:183:TYR:CD1	3:QB:388:MET:HE3	2.55	0.41
4:QC:246:GLY:HA2	4:QC:357:TYR:CD2	2.54	0.41
3:QD:54:ALA:HB3	3:QD:58:LYS:HB3	2.02	0.41
3:QD:282:ARG:HE	3:QD:288:GLU:CD	2.28	0.41
4:QE:397:LEU:O	4:QE:401:LYS:HG2	2.20	0.41
4:QG:272:TYR:CE1	4:QG:374:ALA:HB1	2.55	0.41
4:QG:368:LEU:HD23	4:QG:368:LEU:H	1.84	0.41
4:QG:402:ARG:HB2	4:QG:405:VAL:HG21	2.02	0.41
3:QH:100:ASN:ND2	3:QH:398:TYR:HE1	2.18	0.41
3:QH:211:CYS:HA	3:QH:215:LEU:HD12	2.01	0.41
4:QK:35:GLN:HG2	4:QK:59:GLY:O	2.20	0.41
3:QL:350:LYS:HE3	4:QM:180:ALA:HA	2.02	0.41
4:QM:5:ILE:HD13	4:QM:64:ARG:HB3	2.02	0.41
4:QM:163:LYS:HA	4:QM:163:LYS:HD3	1.79	0.41
4:RC:224:TYR:HA	4:RC:227:LEU:HB2	2.03	0.41
4:RC:230:LEU:O	4:RC:234:ILE:HG12	2.20	0.41
3:RF:317:PHE:HE2	3:RF:326:VAL:HG23	1.84	0.41
4:RG:185:TYR:OH	4:RG:403:ALA:O	2.19	0.41
3:RH:2:ARG:HB3	3:RH:131:GLN:CD	2.45	0.41
3:RJ:192:LEU:O	3:RJ:196:THR:HG22	2.21	0.41
3:RJ:412:GLU:HA	3:RJ:415:MET:HE2	2.03	0.41
4:RK:278:ALA:O	4:RK:370:LYS:NZ	2.53	0.41
3:RL:42:LEU:HD23	3:RL:42:LEU:H	1.85	0.41
3:RL:313:VAL:HG23	3:RL:349:VAL:HA	2.02	0.41
3:SB:42:LEU:HD12	3:SB:243:PRO:HD2	2.02	0.41
3:SB:318:ARG:HB3	3:SB:364:SER:OG	2.21	0.41
4:SC:116:ASP:OD1	4:SC:116:ASP:N	2.52	0.41
4:SC:206:ASN:HA	4:SC:209:ILE:HD12	2.01	0.41
4:SC:346:TRP:N	4:SC:346:TRP:CD1	2.87	0.41
3:SD:4:ILE:HB	3:SD:50:TYR:CE1	2.55	0.41
3:SD:257:MET:HE1	3:SD:314:ALA:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:SE:88:HIS:CE1	4:TE:280:LYS:HZ3	2.38	0.41
4:SE:292:THR:HA	4:SE:295:CYS:SG	2.60	0.41
4:SG:16:ILE:HG22	4:SG:228:ASN:OD1	2.20	0.41
4:SG:316:CYS:O	4:SG:378:LEU:N	2.46	0.41
3:SH:183:TYR:HA	3:SH:186:THR:HG22	2.02	0.41
4:SI:12:ALA:O	39:SI:501:GTP:N2	2.53	0.41
3:SL:32:PRO:HA	3:SL:81:PHE:CE1	2.55	0.41
3:SL:249:ASP:O	3:SL:252:LYS:HB3	2.20	0.41
3:SL:267:MET:HA	3:SL:268:PRO:HD3	1.88	0.41
32:T:272:GLU:H	32:T:272:GLU:CD	2.26	0.41
3:TD:100:ASN:O	3:TD:103:LYS:HG3	2.21	0.41
3:TD:305:PRO:HA	3:TD:373:ALA:HB2	2.01	0.41
4:TE:311:LYS:HE3	4:TE:344:VAL:HA	2.02	0.41
3:TF:180:VAL:HG13	3:TF:184:ASN:OD1	2.20	0.41
4:TG:281:ALA:HB3	4:TG:370:LYS:HZ1	1.84	0.41
3:TH:176:SER:O	3:TH:178:THR:N	2.53	0.41
3:TH:379:LYS:O	3:TH:382:SER:OG	2.20	0.41
4:TI:192:HIS:CE1	4:TI:193:THR:HG23	2.56	0.41
3:TJ:12:CYS:HA	39:TJ:501:GTP:N3	2.36	0.41
3:TJ:87:PRO:HA	3:TJ:90:PHE:CD2	2.56	0.41
4:TK:30:ILE:HG13	4:TK:53:PHE:CE2	2.54	0.41
4:TM:264:ARG:CZ	4:TM:431:ASP:HB3	2.50	0.41
4:TM:287:SER:N	4:TM:290:GLU:OE2	2.53	0.41
33:U:404:ARG:O	33:U:407:LYS:HG3	2.20	0.41
3:UB:4:ILE:HB	3:UB:50:TYR:HE1	1.86	0.41
3:UB:141:GLY:HA3	39:UB:501:GTP:H5"	2.01	0.41
3:UB:376:GLU:HA	3:UB:379:LYS:HG2	2.03	0.41
4:UC:239:THR:OG1	4:UC:243:ARG:NH1	2.52	0.41
4:UE:21:TRP:CE3	4:UE:24:TYR:HD2	2.38	0.41
4:UG:152:LEU:HG	4:UG:156:ARG:NH2	2.21	0.41
3:UH:214:THR:HG21	3:UH:273:LEU:HB3	2.03	0.41
4:UI:8:HIS:CE1	4:UI:21:TRP:HH2	2.38	0.41
4:UI:180:ALA:HB3	4:UI:183:GLU:HB2	2.02	0.41
3:UJ:87:PRO:HA	3:UJ:90:PHE:CD2	2.55	0.41
3:UJ:291:GLN:NE2	3:UJ:295:ASP:OD1	2.53	0.41
4:UK:185:TYR:HA	4:UK:395:PHE:HE1	1.84	0.41
4:UK:363:VAL:H	4:UK:368:LEU:HD21	1.85	0.41
3:UL:189:VAL:HA	3:UL:192:LEU:HD12	2.02	0.41
3:VB:5:VAL:HG23	3:VB:130:LEU:HD21	2.03	0.41
3:VB:19:LYS:NZ	3:VB:223:GLY:O	2.51	0.41
3:VB:223:GLY:O	3:VB:227:HIS:N	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:VC:9:VAL:HG23	4:VC:149:PHE:HD2	1.85	0.41
4:VC:320:ARG:HG2	4:VC:358:GLN:O	2.20	0.41
3:VD:151:LEU:HD22	3:VD:154:LYS:HZ1	1.86	0.41
3:VF:289:LEU:O	3:VF:293:MET:HG2	2.21	0.41
3:VF:391:ARG:C	3:VF:392:LYS:HG3	2.46	0.41
4:VG:22:GLU:HG2	4:VG:83:TYR:HE2	1.85	0.41
4:VG:72:PRO:HA	4:VG:75:VAL:HG12	2.02	0.41
3:VJ:66:VAL:HA	3:VJ:91:VAL:O	2.20	0.41
3:VJ:91:VAL:HG11	3:VJ:116:VAL:HG12	2.02	0.41
3:VJ:296:ALA:O	3:VJ:299:MET:HE2	2.20	0.41
3:VJ:316:VAL:HG22	3:VJ:352:ALA:HB3	2.00	0.41
3:VJ:324:LYS:HD3	4:VK:210:TYR:CE1	2.55	0.41
3:VJ:350:LYS:HE3	4:VK:181:VAL:H	1.86	0.41
4:VK:121:ARG:O	4:VK:124:LYS:HG2	2.21	0.41
4:VK:202:PHE:O	4:VK:203:MET:HE2	2.21	0.41
4:WA:301:GLN:N	4:WA:301:GLN:OE1	2.53	0.41
3:WB:139:LEU:N	3:WB:168:SER:OG	2.53	0.41
3:WB:267:MET:HA	3:WB:268:PRO:HD3	1.89	0.41
3:WD:11:GLN:O	3:WD:14:ASN:HB2	2.20	0.41
3:WD:255:VAL:HG12	4:WE:407:TRP:CE3	2.54	0.41
4:WE:384:ILE:HB	4:WE:388:TRP:HZ3	1.85	0.41
4:WG:424:ASP:O	4:WG:428:LEU:HG	2.20	0.41
3:WH:51:TYR:HB3	3:WH:59:TYR:HB3	2.02	0.41
4:WI:1:MET:CE	4:WI:2:ARG:H	2.33	0.41
3:WJ:4:ILE:HB	3:WJ:50:TYR:CE1	2.55	0.41
3:WJ:49:VAL:C	3:WJ:62:ARG:HH21	2.28	0.41
3:WJ:292:GLN:O	3:WJ:298:ASN:ND2	2.47	0.41
3:WJ:398:TYR:HB3	3:WJ:403:MET:HB2	2.03	0.41
4:WK:10:GLY:O	4:WK:14:VAL:HG13	2.20	0.41
4:WK:123:ARG:HA	4:WK:126:ALA:HB3	2.02	0.41
3:WL:138:SER:HB3	39:WL:501:GTP:H5"	2.01	0.41
33:X:444:ASP:HA	33:X:447:GLU:HB3	2.02	0.41
33:X:491:GLN:HA	33:X:494:LEU:HB2	2.01	0.41
34:XA:97:LYS:HD2	34:XA:99:VAL:HB	2.01	0.41
34:XA:178:PRO:HD2	34:XA:181:PHE:HB2	2.02	0.41
34:XB:79:ILE:HD11	34:XB:166:TYR:HE1	1.84	0.41
34:XC:62:PRO:HG3	34:XC:67:LYS:O	2.20	0.41
34:XE:86:TYR:HD1	34:XE:107:ASN:HD21	1.67	0.41
34:XE:88:THR:O	34:XE:157:HIS:HB2	2.21	0.41
34:XE:96:ASP:N	34:XE:96:ASP:OD1	2.53	0.41
34:XG:2:PHE:O	34:XG:5:THR:OG1	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:XH:165:MET:O	35:XH:165:MET:HG3	2.20	0.41
35:XH:178:LEU:HA	35:XH:181:LEU:HG	2.03	0.41
35:XI:100:LEU:O	35:XI:103:MET:HE3	2.19	0.41
35:XJ:204:ASN:O	35:XJ:208:LEU:HG	2.20	0.41
35:XK:105:PHE:CD1	35:XK:106:PRO:HA	2.55	0.41
35:XL:138:LYS:HA	35:XL:141:LEU:HD12	2.01	0.41
37:YA:59:ASN:O	37:YA:61:THR:N	2.53	0.41
37:YB:2:ASN:OD1	37:YB:5:LYS:HE3	2.20	0.41
37:YC:143:ILE:HG23	37:YC:147:PHE:CE2	2.55	0.41
37:YD:114:ARG:NH2	37:YD:130:ALA:O	2.49	0.41
37:YD:144:VAL:O	37:YD:148:MET:HG2	2.19	0.41
37:YF:143:ILE:HG23	37:YF:147:PHE:CE2	2.55	0.41
37:YF:148:MET:O	37:YF:151:TRP:HB3	2.21	0.41
37:YI:80:CYS:HA	37:YI:83:PHE:CD2	2.51	0.41
37:YM:96:LEU:O	37:YM:148:MET:HE1	2.20	0.41
37:YM:118:PRO:O	37:YM:119:HIS:C	2.63	0.41
37:YP:90:THR:HG21	37:YP:154:HIS:NE2	2.35	0.41
37:YP:140:LEU:O	37:YP:144:VAL:HG23	2.20	0.41
37:YQ:98:GLU:HA	37:YQ:101:LYS:NZ	2.35	0.41
37:YR:15:TYR:OH	37:YR:72:ILE:HD12	2.20	0.41
37:YV:59:ASN:HB2	37:YV:62:HIS:CE1	2.55	0.41
37:YV:128:ASP:HA	37:YV:131:ARG:HD3	2.02	0.41
37:YV:137:VAL:HA	37:YV:140:LEU:HD23	2.02	0.41
37:YW:120:GLU:O	37:YW:124:HIS:N	2.50	0.41
2:A1:175:LEU:HG	7:C1:279:GLU:OE2	2.20	0.41
2:A2:199:ASN:OD1	2:A2:200:PHE:N	2.50	0.41
2:A3:12:LEU:HD23	2:A3:12:LEU:HA	1.86	0.41
2:A3:73:TRP:CZ3	5:B2:267:LYS:HE3	2.55	0.41
2:A3:353:GLU:CD	2:A3:357:GLN:HE22	2.29	0.41
3:AB:19:LYS:NZ	3:AB:227:HIS:HB2	2.35	0.41
3:AB:216:LYS:HB3	3:AB:276:ARG:NH2	2.36	0.41
3:AB:253:LEU:O	3:AB:257:MET:HG2	2.20	0.41
4:AC:16:ILE:HG13	4:AC:17:GLY:N	2.34	0.41
4:AC:88:HIS:HE1	4:AC:90:GLU:CD	2.29	0.41
4:AC:246:GLY:HA2	4:AC:357:TYR:HD2	1.84	0.41
4:AC:318:LEU:O	4:AC:375:VAL:HA	2.19	0.41
3:AD:19:LYS:NZ	3:AD:227:HIS:HB2	2.35	0.41
3:AD:21:TRP:CZ2	3:AD:63:ALA:HB2	2.56	0.41
3:AD:317:PHE:O	3:AD:354:CYS:N	2.42	0.41
4:AE:2:ARG:NH1	4:AE:241:SER:O	2.54	0.41
4:AG:167:LEU:HB3	4:AG:169:PHE:CZ	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AG:327:ASP:OD1	4:AG:328:VAL:N	2.53	0.41
4:AG:424:ASP:O	4:AG:428:LEU:HG	2.20	0.41
3:AH:182:PRO:O	3:AH:385:PHE:HE1	2.03	0.41
4:AI:245:ASP:OD1	4:AI:357:TYR:HE2	2.03	0.41
3:AJ:87:PRO:HA	3:AJ:90:PHE:CD2	2.55	0.41
3:AJ:133:PHE:N	3:AJ:163:ILE:O	2.42	0.41
3:AJ:374:ILE:O	3:AJ:377:LEU:HB2	2.20	0.41
4:AK:175:PRO:O	4:AK:390:ARG:HD3	2.20	0.41
3:AL:174:LYS:HG2	3:AL:205:GLU:OE2	2.20	0.41
3:AL:325:GLU:O	3:AL:329:GLN:HG2	2.20	0.41
4:AM:89:PRO:HB2	4:AM:90:GLU:OE1	2.20	0.41
4:AM:114:ILE:O	4:AM:118:VAL:HG23	2.20	0.41
5:B3:344:GLN:O	5:B3:348:THR:HG23	2.21	0.41
5:B4:79:ASP:O	5:B4:83:THR:HG23	2.20	0.41
5:B4:89:ILE:HD13	10:E1:118:PHE:CZ	2.56	0.41
5:B6:209:PRO:HG2	5:B7:331:ARG:NH2	2.36	0.41
5:B6:262:GLU:OE1	5:B6:394:ARG:HD3	2.20	0.41
5:B7:52:GLN:NE2	5:B7:56:ASP:OD2	2.54	0.41
5:B9:343:HIS:HA	5:B9:346:GLU:OE1	2.20	0.41
3:BB:277:GLY:HA2	3:BB:280:GLN:HE21	1.86	0.41
4:BC:386:GLU:HA	4:BC:389:ALA:HB3	2.02	0.41
4:BC:394:LYS:O	4:BC:398:MET:HG2	2.20	0.41
3:BD:80:PRO:HD3	14:G4:206:PHE:HZ	1.85	0.41
4:BE:121:ARG:O	4:BE:124:LYS:HG2	2.21	0.41
4:BE:154:MET:HA	4:BE:157:LEU:HG	2.02	0.41
3:BF:359:ARG:NH2	15:H3:4:THR:HB	2.36	0.41
4:BG:2:ARG:NH1	4:BG:241:SER:O	2.53	0.41
4:BG:166:LYS:O	4:BG:199:ASP:HB2	2.19	0.41
3:BH:31:ASP:OD1	3:BH:35:THR:N	2.52	0.41
4:BI:6:SER:OG	4:BI:138:PHE:HE2	2.04	0.41
4:BI:80:THR:HB	15:H4:9:LEU:HD11	2.03	0.41
4:BI:368:LEU:HD23	4:BI:368:LEU:H	1.85	0.41
3:BJ:137:HIS:O	3:BJ:168:SER:HA	2.20	0.41
3:BJ:376:GLU:H	3:BJ:376:GLU:CD	2.26	0.41
4:BK:46:ASP:HA	4:BK:50:ASN:HB3	2.01	0.41
4:BK:123:ARG:HA	4:BK:126:ALA:HB3	2.01	0.41
4:BK:295:CYS:HB2	4:BK:377:MET:HE3	2.03	0.41
3:BL:8:GLN:NE2	3:BL:17:GLY:HA3	2.35	0.41
3:BL:137:HIS:O	3:BL:168:SER:HA	2.21	0.41
4:BM:154:MET:HA	4:BM:157:LEU:HG	2.01	0.41
4:BM:389:ALA:HA	4:BM:392:ASP:OD2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C1:282:SER:O	7:C2:394:LYS:HE2	2.21	0.41
7:C2:116:ASN:HA	7:C2:119:ARG:NE	2.36	0.41
7:C3:344:ASN:C	10:E2:177:ARG:HH22	2.28	0.41
7:C3:367:LYS:O	7:C3:371:GLU:OE1	2.39	0.41
7:C7:126:ARG:HD2	7:C7:130:ASP:OD2	2.20	0.41
7:C8:94:TYR:HB2	8:D4:246:LYS:HZ3	1.84	0.41
7:C8:365:LEU:HB2	7:C8:455:LEU:HD22	2.01	0.41
7:C8:447:SER:HA	10:E2:145:ARG:HH22	1.86	0.41
3:CB:30:ILE:HG13	3:CB:36:TYR:CD1	2.55	0.41
4:CC:84:ARG:CD	15:H1:212:LEU:HD12	2.50	0.41
4:CC:135:PHE:CE2	4:CC:164:LYS:HD2	2.55	0.41
3:CD:208:TYR:O	3:CD:211:CYS:HB3	2.20	0.41
3:CD:324:LYS:HE2	4:CE:222:PRO:HD2	2.02	0.41
4:CE:368:LEU:HD23	4:CE:368:LEU:H	1.85	0.41
4:CE:386:GLU:HA	4:CE:389:ALA:HB3	2.02	0.41
4:CG:70:LEU:HA	4:CG:95:GLY:CA	2.50	0.41
4:CG:319:TYR:HB2	4:CG:355:ILE:HD13	2.03	0.41
3:CH:324:LYS:HE2	4:CI:222:PRO:CG	2.50	0.41
3:CH:324:LYS:HG3	4:CI:221:ARG:NH1	2.35	0.41
3:CJ:137:HIS:O	3:CJ:168:SER:HA	2.21	0.41
4:CK:16:ILE:HG22	4:CK:228:ASN:OD1	2.20	0.41
4:CK:90:GLU:N	4:CK:90:GLU:OE1	2.53	0.41
3:CL:182:PRO:HB2	3:CL:388:MET:SD	2.60	0.41
3:CL:324:LYS:HD3	4:CM:210:TYR:HE1	1.85	0.41
4:CM:98:ASP:O	4:CM:105:ARG:NH2	2.42	0.41
4:CM:145:THR:HG23	39:CM:501:GTP:O3B	2.21	0.41
7:Cb:410:GLU:H	7:Cb:410:GLU:CD	2.29	0.41
7:Cc:336:MET:SD	7:Cc:337:TRP:N	2.94	0.41
7:Cd:257:ASP:O	7:Cd:261:LYS:HG2	2.20	0.41
7:Cd:261:LYS:HE3	7:Cd:300:TRP:HE1	1.84	0.41
8:D2:101:ARG:CZ	8:D2:101:ARG:HB2	2.49	0.41
8:D2:253:THR:OG1	8:D2:255:GLU:OE1	2.26	0.41
8:D3:76:ARG:O	8:D3:80:GLU:OE1	2.39	0.41
8:D3:376:ARG:NH2	8:D3:380:GLU:OE2	2.53	0.41
8:D3:436:ARG:HH22	27:Q:9:LEU:HD21	1.83	0.41
8:D4:217:ASP:O	8:D4:221:VAL:HG13	2.20	0.41
8:D4:409:ARG:O	8:D4:413:GLU:OE1	2.38	0.41
8:D7:296:GLN:O	8:D7:300:VAL:HG23	2.20	0.41
8:D7:356:ARG:HH21	8:D8:231:TYR:HE2	1.69	0.41
8:D9:128:THR:O	8:D9:131:MET:HG2	2.19	0.41
4:DA:175:PRO:O	4:DA:390:ARG:HD3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DA:212:ILE:HG13	4:DA:215:ARG:NH2	2.35	0.41
4:DC:87:PHE:HB3	4:DC:92:LEU:CD2	2.49	0.41
3:DD:38:GLY:H	15:H3:317:HIS:CE1	2.38	0.41
4:DE:288:VAL:O	4:DE:292:THR:OG1	2.25	0.41
4:DE:386:GLU:HA	4:DE:389:ALA:HB3	2.02	0.41
3:DF:132:GLY:HA2	3:DF:162:ARG:HB3	2.02	0.41
4:DG:89:PRO:HD3	4:EG:283:HIS:CE1	2.55	0.41
4:DG:216:ASN:ND2	4:DG:275:VAL:O	2.53	0.41
4:DI:103:TYR:HB2	4:DI:186:ASN:HB2	2.02	0.41
4:DI:208:ALA:HB3	4:DI:302:MET:HA	2.02	0.41
4:DI:332:ILE:O	4:DI:336:LYS:HG3	2.20	0.41
4:DI:384:ILE:HB	4:DI:388:TRP:HZ3	1.84	0.41
4:DK:132:LEU:HD12	4:DK:132:LEU:O	2.20	0.41
3:DL:101:TRP:CE3	3:DL:187:LEU:HD13	2.55	0.41
3:DL:214:THR:HG21	3:DL:273:LEU:HB3	2.02	0.41
3:DL:372:THR:HB	3:DL:375:GLN:HE22	1.86	0.41
10:E2:50:LYS:HB2	10:E2:61:GLN:NE2	2.35	0.41
4:EA:69:ASP:N	4:EA:93:ILE:O	2.49	0.41
4:EA:265:ILE:HA	4:EA:267:PHE:CE2	2.56	0.41
3:EB:214:THR:HG23	3:EB:215:LEU:HD22	2.03	0.41
3:EB:415:MET:O	3:EB:419:VAL:HG23	2.19	0.41
3:EF:51:TYR:HB3	3:EF:59:TYR:HB3	2.02	0.41
3:EF:273:LEU:H	3:EF:292:GLN:NE2	2.18	0.41
3:EF:398:TYR:HB3	3:EF:403:MET:HB2	2.02	0.41
4:EG:318:LEU:O	4:EG:375:VAL:HA	2.19	0.41
3:EH:252:LYS:HE2	4:EI:101:ASN:H	1.86	0.41
4:EI:184:PRO:HB2	4:EI:395:PHE:HD1	1.84	0.41
3:EJ:259:PRO:HA	4:EK:404:PHE:CD1	2.55	0.41
4:EK:256:GLN:NE2	3:EL:397:TRP:HE1	2.15	0.41
3:EL:135:LEU:O	3:EL:167:PHE:N	2.51	0.41
3:EL:192:LEU:O	3:EL:196:THR:HG22	2.20	0.41
9:F:333:ASN:HB3	9:F:336:GLN:NE2	2.35	0.41
9:F:409:PRO:O	9:F:413:GLU:HG2	2.21	0.41
11:F1:360:GLN:HE21	11:F2:106:ALA:HB3	1.85	0.41
11:F2:163:LEU:HD23	11:F2:311:ARG:HH11	1.85	0.41
11:F2:304:ILE:O	11:F2:308:GLN:OE1	2.39	0.41
11:F2:355:ASN:O	11:F2:358:GLN:HG3	2.21	0.41
11:F2:441:LEU:O	11:F2:445:VAL:HG23	2.20	0.41
11:F2:442:GLN:HG2	11:F6:281:HIS:NE2	2.35	0.41
11:F4:232:LEU:O	11:F4:236:ILE:HG23	2.20	0.41
11:F5:305:ARG:O	11:F5:308:GLN:NE2	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:F7:128:ASP:O	11:F7:131:ILE:HG12	2.20	0.41
11:F7:131:ILE:HG13	11:F7:132:HIS:N	2.36	0.41
11:F7:382:ILE:O	11:F7:386:GLU:HG3	2.20	0.41
11:F8:209:ASP:HB3	11:F8:346:ARG:HH21	1.84	0.41
4:FA:212:ILE:HG13	4:FA:215:ARG:NH2	2.35	0.41
4:FC:137:ILE:HB	4:FC:168:GLU:HG3	2.02	0.41
4:FE:132:LEU:O	4:FE:132:LEU:HD12	2.20	0.41
3:FF:12:CYS:HA	3:FF:15:GLN:OE1	2.20	0.41
4:FG:272:TYR:HD2	4:FG:275:VAL:HG13	1.84	0.41
4:FG:425:LEU:O	4:FG:428:LEU:N	2.53	0.41
3:FH:192:LEU:O	3:FH:196:THR:HG22	2.21	0.41
3:FH:257:MET:O	3:FH:259:PRO:HD3	2.21	0.41
4:FI:9:VAL:HA	4:FI:68:VAL:HG23	2.03	0.41
4:FI:421:ALA:O	4:FI:425:LEU:N	2.40	0.41
3:FJ:130:LEU:H	3:FJ:162:ARG:NH1	2.18	0.41
3:FJ:249:ASP:O	3:FJ:252:LYS:HB3	2.20	0.41
3:FJ:282:ARG:NE	3:FJ:288:GLU:OE1	2.52	0.41
4:FK:79:ARG:HD2	4:FK:79:ARG:O	2.20	0.41
4:FK:146:GLY:N	39:FK:501:GTP:O2B	2.52	0.41
3:FL:6:HIS:HB3	3:FL:21:TRP:HZ2	1.85	0.41
3:FL:156:ARG:NE	3:FL:164:MET:HE3	2.36	0.41
11:Fb:196:TYR:O	11:Fb:197:ASN:CG	2.64	0.41
11:Fb:365:LEU:HA	11:Fb:368:ILE:HG12	2.03	0.41
11:Fb:374:THR:HA	11:Fb:377:LEU:HD12	2.02	0.41
11:Ff:440:THR:HA	11:Ff:443:LEU:HD12	2.02	0.41
11:Ff:445:VAL:HA	11:Ff:448:LYS:HE2	2.02	0.41
11:Fh:363:LYS:O	11:Fh:366:GLN:HG3	2.20	0.41
11:Fh:409:ARG:HH12	11:Fh:412:PRO:HG3	1.86	0.41
11:Fl:211:VAL:HG13	11:Fl:339:THR:HG23	2.01	0.41
13:G1:13:PRO:HA	3:LD:227:HIS:CG	2.54	0.41
13:G2:243:LEU:HD11	13:G2:351:THR:HG23	2.02	0.41
13:G2:532:GLN:NE2	13:G2:536:GLN:HE22	2.18	0.41
14:G4:12:ASN:OD1	14:G4:13:ARG:N	2.53	0.41
14:G4:203:THR:HA	14:G4:206:PHE:HB3	2.03	0.41
14:G4:437:PHE:HB3	14:G4:451:ILE:CG1	2.51	0.41
14:G5:42:GLY:N	14:G5:46:ASP:H	2.17	0.41
14:G5:76:LYS:O	14:G5:76:LYS:HD3	2.20	0.41
14:G5:84:TYR:HE2	14:G5:168:TYR:HB3	1.84	0.41
14:G5:311:SER:HB2	14:G5:313:TRP:CZ3	2.55	0.41
14:G5:541:PRO:O	14:G5:544:ASN:HB2	2.20	0.41
14:G6:125:LEU:HA	14:G6:125:LEU:HD23	1.92	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G6:510:GLY:HA2	14:G6:522:LEU:O	2.21	0.41
4:GA:74:VAL:O	4:GA:77:GLU:HG3	2.21	0.41
4:GA:346:TRP:HH2	4:GA:435:VAL:HA	1.85	0.41
3:GB:346:PRO:HG2	4:GC:394:LYS:NZ	2.36	0.41
3:GB:378:PHE:CE1	3:GB:419:VAL:HA	2.55	0.41
3:GD:46:ARG:O	3:GD:49:VAL:HG12	2.21	0.41
3:GD:224:ASP:O	3:GD:228:LEU:HG	2.19	0.41
4:GG:270:ALA:HA	4:GG:378:LEU:HA	2.01	0.41
4:GG:345:ASP:N	4:GG:345:ASP:OD1	2.53	0.41
3:GJ:36:TYR:CE2	3:GJ:44:LEU:HD13	2.56	0.41
3:GJ:241:ARG:HG3	3:GJ:242:PHE:CD1	2.55	0.41
3:GL:374:ILE:HD11	3:GL:422:TYR:CE1	2.56	0.41
15:H3:292:MET:O	15:H3:294:ASP:N	2.53	0.41
15:H3:308:TYR:O	15:H3:311:GLU:HG2	2.19	0.41
4:HA:34:GLY:HA2	4:HA:86:LEU:CD2	2.50	0.41
4:HA:262:TYR:CE1	3:HB:393:ALA:HA	2.55	0.41
4:HA:332:ILE:HG13	4:HA:336:LYS:NZ	2.36	0.41
4:HC:117:LEU:O	4:HC:121:ARG:HG2	2.20	0.41
4:HC:192:HIS:CE1	4:HC:193:THR:HG23	2.55	0.41
3:HD:40:SER:HB2	3:HD:43:GLN:CD	2.45	0.41
4:HE:252:LEU:HA	4:HE:255:PHE:HB2	2.01	0.41
3:HF:152:ILE:O	3:HF:156:ARG:HG2	2.20	0.41
3:HH:324:LYS:HG3	4:HI:221:ARG:NH1	2.36	0.41
4:HI:187:SER:O	4:HI:191:THR:HG23	2.19	0.41
4:HI:216:ASN:HD21	4:HI:275:VAL:HG23	1.85	0.41
4:HK:152:LEU:HD13	4:HK:156:ARG:HH22	1.84	0.41
4:HK:178:SER:OG	4:HK:180:ALA:O	2.37	0.41
3:HL:216:LYS:HB2	3:HL:276:ARG:NH1	2.35	0.41
3:HL:226:ASN:HA	3:HL:229:VAL:HG22	2.02	0.41
3:HL:419:VAL:C	3:HL:423:GLN:HE22	2.27	0.41
17:I2:58:GLU:O	17:I2:62:ALA:N	2.54	0.41
4:IA:10:GLY:O	4:IA:14:VAL:HG13	2.19	0.41
4:IC:319:TYR:N	4:IC:354:GLY:O	2.53	0.41
3:ID:341:PHE:HD1	3:ID:348:ASN:HD21	1.68	0.41
4:IE:229:ARG:NH1	4:IE:233:GLN:HB2	2.35	0.41
3:IF:255:VAL:HG12	4:IG:407:TRP:CD2	2.56	0.41
3:IF:385:PHE:HB3	3:IF:408:PHE:CZ	2.54	0.41
3:IH:2:ARG:NH2	4:II:97:GLU:HB3	2.36	0.41
4:II:2:ARG:NH1	4:II:241:SER:O	2.53	0.41
3:IJ:188:SER:O	3:IJ:192:LEU:HG	2.20	0.41
3:IJ:390:ARG:HD2	3:IJ:391:ARG:HG3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:IK:1:MET:SD	4:IK:2:ARG:N	2.93	0.41
4:IK:125:LEU:HD13	4:IK:128:LEU:HD21	2.02	0.41
4:IK:271:THR:HB	4:IK:377:MET:HE2	2.02	0.41
4:IM:50:ASN:OD1	4:IM:51:THR:N	2.53	0.41
4:IM:52:PHE:HE2	4:IM:243:ARG:NH1	2.18	0.41
4:IM:88:HIS:NE2	4:IM:90:GLU:OE2	2.53	0.41
4:IM:414:GLU:HG2	4:IM:417:GLU:OE1	2.21	0.41
4:JA:11:GLN:O	4:JA:14:VAL:HG22	2.21	0.41
4:JA:260:VAL:O	3:JB:397:TRP:HH2	2.03	0.41
4:JA:433:GLU:OE2	4:JA:434:GLU:HG3	2.20	0.41
3:JB:21:TRP:CZ2	3:JB:63:ALA:HB2	2.56	0.41
3:JB:54:ALA:HA	3:KB:283:ALA:HB2	2.03	0.41
4:JC:51:THR:HG23	4:JC:52:PHE:CD2	2.54	0.41
4:JC:93:ILE:HG13	4:JC:118:VAL:HG12	2.02	0.41
4:JC:187:SER:O	4:JC:190:THR:OG1	2.32	0.41
3:JD:6:HIS:HB3	3:JD:21:TRP:HZ2	1.86	0.41
3:JD:267:MET:HA	3:JD:268:PRO:HD3	1.92	0.41
4:JE:160:ASP:OD1	4:JE:161:TYR:N	2.53	0.41
4:JE:210:TYR:CE1	4:JE:227:LEU:HD21	2.55	0.41
3:JF:130:LEU:HB2	3:JF:162:ARG:NH1	2.35	0.41
3:JF:267:MET:HE1	3:JF:299:MET:HG3	2.03	0.41
4:JG:244:PHE:HB3	4:JG:357:TYR:CZ	2.55	0.41
3:JH:295:ASP:HB3	3:JH:298:ASN:H	1.85	0.41
3:JJ:173:PRO:HD2	3:JJ:205:GLU:CD	2.46	0.41
20:K:95:MET:SD	20:K:97:PRO:HD3	2.60	0.41
20:K:233:VAL:HG23	20:K:249:VAL:HG22	2.03	0.41
21:K1:397:LEU:HA	21:K1:400:MET:HB3	2.02	0.41
21:K1:417:GLN:O	21:K1:421:LEU:HG	2.20	0.41
4:KA:185:TYR:HA	4:KA:395:PHE:HE1	1.86	0.41
3:KB:12:CYS:SG	3:KB:13:GLY:N	2.94	0.41
3:KB:28:HIS:HE1	3:KB:241:ARG:HD3	1.85	0.41
3:KB:69:GLU:HA	3:KB:70:PRO:HD3	1.96	0.41
4:KC:19:ALA:O	4:KC:23:LEU:HG	2.20	0.41
4:KC:146:GLY:N	39:KC:501:GTP:O2B	2.50	0.41
4:KE:251:ASP:HB3	4:KE:254:GLU:OE1	2.20	0.41
4:KE:320:ARG:HG2	4:KE:358:GLN:O	2.20	0.41
4:KE:402:ARG:NH2	31:R1:124:ASN:HB2	2.34	0.41
3:KF:48:ASN:HA	3:KF:51:TYR:O	2.19	0.41
3:KF:217:LEU:O	3:KF:217:LEU:HD23	2.21	0.41
4:KG:88:HIS:HB3	4:KG:91:GLN:HB3	2.03	0.41
4:KI:8:HIS:CD2	4:KI:138:PHE:HD2	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KJ:423:GLN:O	3:KJ:427:ASP:N	2.47	0.41
4:KK:11:GLN:O	4:KK:14:VAL:HG22	2.21	0.41
4:KK:72:PRO:HA	4:KK:75:VAL:HG12	2.02	0.41
4:KK:156:ARG:HA	4:KK:159:VAL:HG22	2.03	0.41
3:KL:21:TRP:CZ2	3:KL:63:ALA:HB2	2.55	0.41
3:KL:77:ARG:HD3	3:KL:90:PHE:CE2	2.54	0.41
3:KL:330:MET:HG3	3:KL:349:VAL:HG11	2.01	0.41
22:L1:236:GLN:HA	22:L1:239:HIS:CE1	2.54	0.41
22:L2:109:ASN:ND2	3:LF:425:TYR:HH	2.17	0.41
22:L2:141:LEU:C	22:L2:143:PRO:HD3	2.45	0.41
4:LC:146:GLY:N	39:LC:501:GTP:O2B	2.53	0.41
4:LC:338:LYS:NZ	4:LC:339:ARG:H	2.18	0.41
3:LF:324:LYS:HD3	4:LG:210:TYR:HE1	1.86	0.41
4:LG:139:HIS:CD2	4:LG:170:ALA:HB2	2.55	0.41
4:LG:309:HIS:HA	31:R2:272:GLN:HE21	1.84	0.41
4:LG:387:ALA:O	4:LG:391:LEU:HG	2.19	0.41
3:LH:198:GLU:OE2	3:LH:266:PHE:HD2	2.04	0.41
3:LJ:39:ASP:OD1	3:LJ:39:ASP:N	2.53	0.41
3:LJ:324:LYS:HG3	3:LJ:325:GLU:N	2.34	0.41
4:LK:1:MET:HE3	4:LK:50:ASN:ND2	2.34	0.41
24:M3:58:MET:HE1	24:M3:61:LYS:CB	2.44	0.41
3:MB:305:PRO:HB2	3:MB:310:TYR:HE1	1.85	0.41
4:MC:84:ARG:HA	4:MC:87:PHE:HD2	1.85	0.41
4:MC:88:HIS:HE1	4:MC:90:GLU:HG2	1.85	0.41
4:MC:145:THR:HG1	39:MC:501:GTP:PB	2.42	0.41
4:MC:334:THR:O	4:MC:337:THR:OG1	2.27	0.41
4:MC:424:ASP:O	4:MC:428:LEU:HG	2.21	0.41
3:MD:61:PRO:HD3	3:MD:84:ILE:HG13	2.03	0.41
3:MD:192:LEU:O	3:MD:196:THR:HG22	2.20	0.41
3:MF:4:ILE:HG12	3:MF:131:GLN:OE1	2.21	0.41
3:MF:246:LEU:HB3	3:MF:353:VAL:O	2.20	0.41
3:MH:269:GLY:HA3	3:MH:367:PHE:HB3	2.02	0.41
3:MH:391:ARG:C	3:MH:392:LYS:HG3	2.46	0.41
3:MJ:321:MET:HB3	3:MJ:325:GLU:OE2	2.20	0.41
3:MJ:325:GLU:HG2	3:MJ:326:VAL:N	2.36	0.41
4:MK:16:ILE:HG13	4:MK:17:GLY:N	2.35	0.41
4:MK:398:MET:N	4:MK:398:MET:SD	2.92	0.41
4:MM:283:HIS:ND1	4:MM:284:GLU:OE1	2.53	0.41
26:N2:95:HIS:HB3	26:N2:98:THR:OG1	2.20	0.41
3:NB:246:LEU:HB2	3:NB:352:ALA:HB1	2.03	0.41
4:NC:12:ALA:HB1	39:NC:501:GTP:N3	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:NC:141:PHE:HB2	4:NC:173:PRO:HD3	2.01	0.41
4:NC:178:SER:OG	4:NC:180:ALA:O	2.39	0.41
4:NC:252:LEU:HD12	4:NC:253:THR:N	2.36	0.41
4:NC:395:PHE:HE2	4:NC:422:ARG:HH22	1.67	0.41
3:ND:324:LYS:HE3	3:ND:324:LYS:HB3	1.86	0.41
4:NE:363:VAL:H	4:NE:368:LEU:HD21	1.85	0.41
3:NF:269:GLY:N	3:NF:367:PHE:O	2.53	0.41
4:NG:423:GLU:O	4:NG:427:ALA:N	2.46	0.41
3:NH:118:ASP:OD1	3:NH:121:ARG:NH1	2.53	0.41
3:NJ:9:ALA:HB3	3:NJ:135:LEU:HD11	2.02	0.41
3:NJ:40:SER:HB2	3:NJ:43:GLN:CD	2.45	0.41
4:NK:174:ALA:HB1	4:NK:207:GLU:OE2	2.20	0.41
4:NK:346:TRP:CD1	4:NK:346:TRP:N	2.88	0.41
3:NL:12:CYS:SG	39:NL:501:GTP:H5'	2.60	0.41
3:OB:381:ILE:HG13	3:OB:385:PHE:CE2	2.55	0.41
4:OC:104:ALA:HB1	4:OC:108:TYR:CD2	2.55	0.41
3:OD:223:GLY:O	3:OD:227:HIS:N	2.51	0.41
3:OD:267:MET:HA	3:OD:268:PRO:HD3	1.90	0.41
3:OD:419:VAL:O	3:OD:423:GLN:NE2	2.53	0.41
4:OE:81:GLY:O	4:OE:84:ARG:NH1	2.53	0.41
4:OE:161:TYR:HB3	4:OE:164:LYS:NZ	2.35	0.41
4:OE:262:TYR:HE1	3:OF:393:ALA:HA	1.85	0.41
4:OG:311:LYS:HE3	4:OG:344:VAL:HG12	2.02	0.41
4:OG:329:ASN:HA	4:OG:332:ILE:HG12	2.03	0.41
3:OH:324:LYS:HE3	3:OH:324:LYS:HB3	1.89	0.41
4:OI:70:LEU:HB2	4:OI:145:THR:HG21	2.02	0.41
4:OI:88:HIS:HB3	4:OI:91:GLN:HB3	1.99	0.41
3:OJ:30:ILE:HG13	3:OJ:36:TYR:CD1	2.56	0.41
29:P1:83:GLN:HG2	29:P1:92:ASP:H	1.85	0.41
29:P1:139:VAL:HG12	29:P1:148:ILE:HD12	2.02	0.41
29:P3:15:GLU:CG	29:P3:615:LYS:HB3	2.48	0.41
4:PA:319:TYR:HD2	4:PA:323:VAL:HG11	1.85	0.41
3:PB:375:GLN:C	3:PB:379:LYS:HZ1	2.29	0.41
4:PC:285:GLN:NE2	4:PC:286:LEU:O	2.53	0.41
3:PF:282:ARG:HE	3:PF:288:GLU:CD	2.28	0.41
4:PG:117:LEU:O	4:PG:121:ARG:HG2	2.19	0.41
3:PH:292:GLN:HA	3:PH:295:ASP:OD2	2.20	0.41
3:PH:391:ARG:C	3:PH:392:LYS:HG3	2.45	0.41
4:PI:119:LEU:HB3	4:PI:123:ARG:NH2	2.35	0.41
4:PI:271:THR:HA	4:PI:302:MET:HE1	2.00	0.41
4:PI:293:ASN:O	4:PI:297:GLU:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:PI:423:GLU:HA	4:PI:426:ALA:HB3	2.02	0.41
3:PJ:77:ARG:HA	3:PJ:77:ARG:HD2	1.93	0.41
3:PJ:152:ILE:O	3:PJ:156:ARG:HG2	2.20	0.41
3:PL:12:CYS:HA	39:PL:501:GTP:N2	2.36	0.41
3:PL:324:LYS:HE2	4:PM:222:PRO:CD	2.50	0.41
3:PL:334:GLN:O	3:PL:338:SER:OG	2.21	0.41
27:Q:100:ASN:HA	27:Q:103:LYS:HD3	2.02	0.41
30:Q3:1458:PHE:C	30:Q3:1463:LYS:HD2	2.46	0.41
3:QB:46:ARG:O	3:QB:49:VAL:HG12	2.20	0.41
3:QB:270:PHE:CG	3:QB:271:ALA:N	2.88	0.41
3:QB:273:LEU:N	3:QB:292:GLN:HE22	2.06	0.41
3:QD:292:GLN:HA	3:QD:295:ASP:OD2	2.20	0.41
3:QF:5:VAL:HB	3:QF:133:PHE:CE1	2.56	0.41
3:QF:77:ARG:HA	3:QF:77:ARG:HD2	1.87	0.41
3:QF:143:THR:HG22	3:QF:147:MET:CE	2.51	0.41
4:QG:90:GLU:HG2	4:QG:121:ARG:NH2	2.34	0.41
4:QI:260:VAL:O	3:QJ:397:TRP:HH2	2.03	0.41
3:QJ:32:PRO:O	3:QJ:83:GLN:NE2	2.50	0.41
4:QK:16:ILE:O	4:QK:20:CYS:N	2.30	0.41
3:QL:39:ASP:OD1	3:QL:39:ASP:N	2.53	0.41
3:QL:137:HIS:O	3:QL:168:SER:HA	2.21	0.41
4:QM:124:LYS:HZ3	4:QM:125:LEU:CD2	2.33	0.41
31:R2:258:GLN:HA	31:R2:261:LEU:HG	2.02	0.41
3:RB:32:PRO:C	3:RB:83:GLN:HE21	2.27	0.41
3:RB:296:ALA:HA	3:RB:299:MET:HE2	2.02	0.41
4:RC:301:GLN:OE1	4:RC:301:GLN:N	2.53	0.41
3:RD:318:ARG:HA	3:RD:354:CYS:HB3	2.02	0.41
4:RE:165:SER:C	4:RE:166:LYS:HD2	2.45	0.41
4:RE:272:TYR:CE1	4:RE:374:ALA:HB1	2.55	0.41
3:RF:315:ALA:HA	3:RF:367:PHE:HA	2.03	0.41
4:RG:6:SER:O	4:RG:65:ALA:HA	2.20	0.41
4:RG:76:ASP:OD1	4:RG:79:ARG:NH1	2.53	0.41
3:RH:379:LYS:O	3:RH:382:SER:OG	2.18	0.41
4:RI:50:ASN:OD1	4:RI:51:THR:N	2.53	0.41
3:RJ:66:VAL:HA	3:RJ:91:VAL:O	2.20	0.41
3:RJ:267:MET:HA	3:RJ:268:PRO:HD3	1.90	0.41
4:RK:408:TYR:CD2	4:RK:418:PHE:HZ	2.38	0.41
3:SB:12:CYS:SG	39:SB:501:GTP:H5'	2.60	0.41
3:SD:324:LYS:HE3	3:SD:324:LYS:HB3	1.86	0.41
4:SE:11:GLN:O	4:SE:14:VAL:HG22	2.20	0.41
4:SG:161:TYR:HB3	4:SG:164:LYS:NZ	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:SG:433:GLU:HG2	4:SG:434:GLU:N	2.33	0.41
4:SI:3:GLU:OE2	4:SI:130:THR:N	2.43	0.41
4:SI:145:THR:HG23	39:SI:501:GTP:O3B	2.20	0.41
4:SI:229:ARG:NH1	4:SI:233:GLN:HB2	2.35	0.41
4:SI:332:ILE:O	4:SI:336:LYS:HG3	2.21	0.41
3:SJ:132:GLY:HA3	3:SJ:163:ILE:H	1.85	0.41
3:SJ:267:MET:HA	3:SJ:268:PRO:HD3	1.85	0.41
3:SJ:350:LYS:HE3	4:SK:180:ALA:HA	2.02	0.41
4:SK:263:PRO:HB2	4:SK:264:ARG:NH1	2.35	0.41
4:TC:2:ARG:NE	4:TC:242:LEU:HG	2.35	0.41
4:TC:15:GLN:HG2	4:TC:16:ILE:N	2.33	0.41
4:TC:389:ALA:HA	4:TC:392:ASP:OD2	2.21	0.41
4:TE:336:LYS:HE2	3:TF:175:VAL:HG21	2.02	0.41
3:TF:22:GLU:HA	3:TF:25:SER:OG	2.20	0.41
3:TF:304:ASP:O	3:TF:307:HIS:ND1	2.51	0.41
4:TG:88:HIS:CE1	4:UE:280:LYS:HZ3	2.39	0.41
4:TG:176:GLN:NE2	4:TG:177:VAL:HG23	2.36	0.41
4:TG:244:PHE:HB2	4:TG:356:ASN:HD21	1.86	0.41
3:TH:328:GLU:HA	3:TH:331:LEU:HB2	2.02	0.41
4:TI:331:ALA:O	4:TI:335:ILE:HG12	2.21	0.41
4:TK:421:ALA:O	4:TK:425:LEU:N	2.40	0.41
3:TL:305:PRO:HB3	3:TL:371:SER:OG	2.20	0.41
3:TL:318:ARG:HA	3:TL:354:CYS:HB3	2.01	0.41
4:TM:107:HIS:CD2	4:TM:152:LEU:HB2	2.56	0.41
4:TM:143:GLY:O	4:TM:147:SER:OG	2.28	0.41
4:TM:280:LYS:HD2	4:TM:280:LYS:HA	1.76	0.41
4:TM:285:GLN:NE2	4:TM:286:LEU:O	2.54	0.41
3:TN:280:GLN:HB3	36:Z:230:GLU:CD	2.46	0.41
3:TN:407:GLU:HA	3:TN:410:GLU:OE2	2.20	0.41
33:U:338:GLN:NE2	33:U:341:MET:HE2	2.35	0.41
33:U:438:GLN:HA	33:U:441:ARG:HE	1.85	0.41
4:UA:166:LYS:O	4:UA:199:ASP:HB2	2.21	0.41
4:UA:427:ALA:HA	4:UA:430:LYS:HG2	2.01	0.41
4:UC:285:GLN:NE2	4:UC:286:LEU:O	2.53	0.41
3:UD:258:VAL:HB	4:UE:407:TRP:CZ2	2.54	0.41
3:UD:290:THR:HG21	3:UD:329:GLN:HB3	2.02	0.41
4:UE:117:LEU:O	4:UE:121:ARG:HG2	2.21	0.41
4:UE:254:GLU:OE1	4:UE:254:GLU:N	2.45	0.41
3:UF:31:ASP:OD1	3:UF:35:THR:N	2.54	0.41
4:UG:28:HIS:HB2	4:UG:30:ILE:HG12	2.02	0.41
4:UG:102:ASN:HB3	4:UG:105:ARG:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UG:183:GLU:N	4:UG:184:PRO:HD2	2.36	0.41
3:UH:305:PRO:HB3	3:UH:371:SER:OG	2.20	0.41
4:UI:172:TYR:CD1	4:UI:173:PRO:HD2	2.55	0.41
3:UJ:292:GLN:HA	3:UJ:295:ASP:OD2	2.21	0.41
4:UK:255:PHE:O	4:UK:259:LEU:HB2	2.21	0.41
4:UK:285:GLN:NE2	4:UK:286:LEU:O	2.54	0.41
3:UL:109:GLY:O	3:UL:113:VAL:HG13	2.21	0.41
4:VA:363:VAL:HG13	4:VA:366:GLY:HA3	2.02	0.41
3:VB:226:ASN:HA	3:VB:229:VAL:HG22	2.03	0.41
4:VE:99:ALA:HB3	4:VE:144:GLY:O	2.20	0.41
4:VE:117:LEU:O	4:VE:121:ARG:HG2	2.19	0.41
4:VE:202:PHE:CD1	4:VE:268:PRO:HD2	2.55	0.41
4:VE:246:GLY:HA3	4:VE:355:ILE:O	2.20	0.41
4:VE:252:LEU:HD12	4:VE:253:THR:N	2.35	0.41
3:VF:137:HIS:O	3:VF:168:SER:HA	2.20	0.41
3:VF:217:LEU:O	3:VF:219:THR:N	2.53	0.41
4:VI:329:ASN:HA	4:VI:332:ILE:HG22	2.02	0.41
3:VJ:32:PRO:HA	3:VJ:81:PHE:CE1	2.55	0.41
3:VJ:240:LEU:HA	3:VJ:248:ALA:HB1	2.03	0.41
4:VK:102:ASN:ND2	4:VK:105:ARG:HG3	2.35	0.41
4:VK:263:PRO:HD3	3:VL:396:HIS:CD2	2.55	0.41
4:WA:288:VAL:HG21	4:WA:328:VAL:HG22	2.02	0.41
4:WA:331:ALA:O	4:WA:334:THR:OG1	2.32	0.41
3:WB:69:GLU:CD	3:WB:71:GLY:H	2.28	0.41
3:WB:73:MET:HE1	3:WB:92:PHE:HB3	2.02	0.41
3:WB:80:PRO:O	3:WB:83:GLN:NE2	2.46	0.41
4:WC:116:ASP:N	4:WC:116:ASP:OD1	2.50	0.41
4:WC:331:ALA:O	4:WC:335:ILE:HG12	2.21	0.41
3:WD:216:LYS:O	3:WD:276:ARG:NH2	2.53	0.41
3:WD:261:PRO:HD3	4:WE:406:HIS:CG	2.55	0.41
3:WD:269:GLY:HA3	3:WD:367:PHE:HB3	2.01	0.41
3:WD:324:LYS:HE2	4:WE:222:PRO:CD	2.50	0.41
4:WE:252:LEU:HD12	4:WE:253:THR:N	2.36	0.41
3:WF:249:ASP:O	3:WF:252:LYS:HB3	2.19	0.41
3:WF:286:VAL:HG11	3:WF:325:GLU:HB2	2.01	0.41
4:WG:406:HIS:HA	4:WG:409:VAL:HG22	2.03	0.41
3:WH:178:THR:HB	3:WH:181:GLU:HB2	2.02	0.41
3:WH:257:MET:O	3:WH:259:PRO:HD3	2.20	0.41
4:WI:408:TYR:CD2	4:WI:418:PHE:HZ	2.38	0.41
4:WK:220:GLU:O	4:WK:221:ARG:NE	2.47	0.41
3:WL:137:HIS:O	3:WL:168:SER:HA	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:XB:39:ASP:O	34:XB:43:GLN:HA	2.20	0.41
34:XD:86:TYR:HA	34:XD:107:ASN:ND2	2.35	0.41
34:XD:114:VAL:HG22	34:XD:119:CYS:HB2	2.02	0.41
34:XE:49:ILE:HG22	34:XE:158:ALA:HA	2.03	0.41
34:XG:125:LEU:HB3	34:XG:130:ASN:ND2	2.36	0.41
34:XG:135:ASN:O	34:XG:139:PHE:HD1	2.03	0.41
34:XG:185:LEU:HD23	34:XG:185:LEU:H	1.85	0.41
35:XH:170:LEU:HD12	35:XH:173:TYR:HB2	2.02	0.41
35:XI:85:GLU:OE1	35:XI:85:GLU:N	2.43	0.41
35:XJ:104:THR:N	35:XJ:108:GLU:HG3	2.35	0.41
35:XK:69:LEU:HA	35:XK:79:ALA:N	2.35	0.41
35:XL:153:LEU:O	35:XL:157:GLN:HG2	2.21	0.41
35:XM:217:GLU:OE2	35:XM:235:TYR:OH	2.25	0.41
36:Y:145:ARG:NH2	36:Z:467:LYS:HB2	2.35	0.41
36:Y:211:ASP:O	36:Y:215:GLN:NE2	2.52	0.41
37:YB:22:GLN:O	37:YB:26:ILE:HG12	2.21	0.41
37:YD:72:ILE:HA	37:YD:75:GLU:OE1	2.21	0.41
37:YE:154:HIS:HA	37:YE:157:LYS:HE2	2.03	0.41
37:YF:162:VAL:HA	37:YF:165:HIS:ND1	2.35	0.41
37:YI:68:MET:O	37:YI:72:ILE:N	2.43	0.41
37:YJ:90:THR:N	37:YJ:93:THR:OG1	2.53	0.41
37:YT:99:LYS:HE2	37:YT:147:PHE:CB	2.50	0.41
37:YU:45:SER:HB3	37:YU:48:GLN:OE1	2.21	0.41
37:YV:61:THR:O	37:YV:65:ILE:HG22	2.20	0.41
36:Z:401:LEU:O	36:Z:405:LYS:HD3	2.21	0.41
2:A1:178:LYS:N	2:A1:178:LYS:HD2	2.35	0.41
2:A2:241:LEU:HD12	17:I2:48:TYR:CZ	2.55	0.41
2:A3:336:ARG:NH1	2:A4:58:ASP:OD2	2.54	0.41
2:A4:21:LYS:HA	2:A4:24:TYR:CD2	2.56	0.41
3:AB:152:ILE:HA	3:AB:155:ILE:HG12	2.02	0.41
3:AB:313:VAL:HG23	3:AB:349:VAL:HA	2.02	0.41
3:AB:374:ILE:HG22	3:AB:378:PHE:CE2	2.55	0.41
4:AC:431:ASP:O	4:AC:434:GLU:HG2	2.21	0.41
3:AD:131:GLN:HB3	3:AD:163:ILE:HD12	2.02	0.41
4:AE:319:TYR:HB2	4:AE:355:ILE:HD13	2.01	0.41
4:AG:251:ASP:HB3	4:AG:254:GLU:OE1	2.19	0.41
3:AH:113:VAL:HB	3:AH:154:LYS:HE3	2.02	0.41
3:AH:188:SER:O	3:AH:192:LEU:HG	2.20	0.41
4:AI:88:HIS:O	4:AI:91:GLN:HG3	2.20	0.41
4:AI:402:ARG:HE	35:XK:233:PRO:HG2	1.85	0.41
3:AJ:311:LEU:HB2	3:AJ:370:ASN:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AJ:374:ILE:HG22	3:AJ:378:PHE:CD2	2.55	0.41
3:AJ:410:GLU:HA	3:AJ:413:SER:HB3	2.01	0.41
4:AK:174:ALA:HB3	4:AK:177:VAL:O	2.21	0.41
3:AL:344:TRP:HA	4:AM:401:LYS:NZ	2.36	0.41
4:AM:423:GLU:HA	4:AM:426:ALA:HB3	2.02	0.41
1:B:478:GLY:HA2	11:Fb:313:ASN:ND2	2.32	0.41
5:B6:377:ILE:O	5:B6:381:THR:HG23	2.20	0.41
5:B7:363:LEU:HD11	5:B7:367:PHE:CZ	2.55	0.41
5:B8:38:ILE:O	5:B8:41:GLU:HG2	2.20	0.41
3:BB:267:MET:HG3	3:BB:369:GLY:O	2.20	0.41
4:BC:265:ILE:HD12	4:BC:432:TYR:CE1	2.56	0.41
3:BD:376:GLU:H	3:BD:376:GLU:CD	2.27	0.41
3:BF:222:TYR:HA	3:BF:225:LEU:HD13	2.02	0.41
4:BG:10:GLY:HA2	4:BG:145:THR:OG1	2.20	0.41
4:BG:34:GLY:HA3	4:BG:60:LYS:HD2	2.03	0.41
4:BG:220:GLU:OE1	4:BG:220:GLU:N	2.42	0.41
4:BG:316:CYS:O	4:BG:378:LEU:N	2.40	0.41
4:BG:414:GLU:HG2	4:BG:417:GLU:OE1	2.20	0.41
3:BH:267:MET:O	3:BH:368:ILE:HD12	2.21	0.41
4:BI:256:GLN:HE22	3:BJ:397:TRP:HE1	1.68	0.41
3:BJ:6:HIS:HE1	3:BJ:8:GLN:HB2	1.86	0.41
4:BK:50:ASN:OD1	4:BK:51:THR:N	2.54	0.41
3:BL:183:TYR:N	3:BL:388:MET:HE1	2.35	0.41
7:C2:231:GLU:O	7:C2:234:ARG:HG2	2.20	0.41
7:C2:333:ALA:O	7:C2:336:MET:HG3	2.21	0.41
7:C3:294:VAL:HG23	7:C3:294:VAL:O	2.20	0.41
7:C6:296:VAL:O	7:C6:299:THR:N	2.49	0.41
7:C7:201:HIS:O	7:C7:204:LYS:HD3	2.20	0.41
7:C8:181:LEU:O	7:C8:185:LEU:HG	2.21	0.41
7:C8:384:LYS:O	7:C8:388:GLU:OE1	2.39	0.41
7:C9:252:HIS:HA	7:Cd:200:PHE:CZ	2.54	0.41
3:CD:133:PHE:N	3:CD:163:ILE:O	2.41	0.41
3:CD:156:ARG:NE	3:CD:164:MET:HE3	2.36	0.41
4:CE:224:TYR:HE1	39:CE:501:GTP:C6	2.38	0.41
4:CE:346:TRP:N	4:CE:346:TRP:CD1	2.86	0.41
4:CG:3:GLU:CD	4:CG:131:GLY:H	2.29	0.41
4:CG:263:PRO:O	4:CG:264:ARG:HB2	2.19	0.41
3:CH:101:TRP:CE3	3:CH:187:LEU:HD13	2.55	0.41
3:CH:156:ARG:NE	3:CH:164:MET:HE3	2.36	0.41
3:CH:378:PHE:CE1	3:CH:419:VAL:HG22	2.56	0.41
4:CI:224:TYR:HB3	4:CI:228:ASN:HD21	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CI:397:LEU:O	4:CI:401:LYS:HG2	2.21	0.41
3:CJ:3:GLU:OE2	3:CJ:129:CYS:N	2.53	0.41
3:CJ:41:ASP:N	3:CJ:41:ASP:OD1	2.54	0.41
3:CJ:309:ARG:O	3:CJ:371:SER:OG	2.31	0.41
4:CK:229:ARG:NH2	4:CK:368:LEU:HD22	2.36	0.41
3:CL:315:ALA:HA	3:CL:367:PHE:HA	2.02	0.41
4:CM:411:GLU:OE2	4:CM:413:MET:HG2	2.21	0.41
7:Ca:351:ILE:O	7:Ca:355:VAL:HG23	2.20	0.41
7:Ca:401:ASP:HB2	7:Cb:284:PHE:CZ	2.56	0.41
7:Cd:103:ASN:O	7:Cd:106:SER:OG	2.33	0.41
7:Cd:214:GLU:OE1	7:Cd:214:GLU:N	2.45	0.41
6:D:57:HIS:NE2	6:D:62:ARG:HG3	2.35	0.41
8:D3:39:SER:OG	8:D3:40:GLY:N	2.53	0.41
8:D3:184:ARG:O	8:D3:188:GLU:OE1	2.39	0.41
8:D3:255:GLU:OE1	8:D3:255:GLU:N	2.36	0.41
8:D5:320:TYR:HA	8:D5:323:ARG:CZ	2.50	0.41
8:D5:414:LYS:O	8:D5:418:VAL:HG23	2.21	0.41
8:D6:359:GLN:HG3	8:D6:360:ARG:HH11	1.86	0.41
8:D7:255:GLU:O	8:D7:259:LYS:HG2	2.21	0.41
4:DA:163:LYS:HA	4:DA:163:LYS:HD3	1.73	0.41
4:DA:234:ILE:O	4:DA:237:SER:OG	2.31	0.41
3:DB:337:ASN:OD1	3:DB:337:ASN:N	2.54	0.41
4:DC:246:GLY:HA3	4:DC:355:ILE:O	2.20	0.41
3:DD:36:TYR:CE2	3:DD:38:GLY:HA2	2.55	0.41
3:DD:148:GLY:O	3:DD:152:ILE:HG12	2.20	0.41
4:DE:272:TYR:HE1	4:DE:374:ALA:HB1	1.85	0.41
3:DH:152:ILE:HA	3:DH:155:ILE:HG12	2.01	0.41
3:DH:312:THR:OG1	3:DH:370:ASN:HB3	2.20	0.41
4:DI:90:GLU:HG2	4:DI:121:ARG:NH2	2.35	0.41
3:DJ:182:PRO:HB2	3:DJ:388:MET:HE1	2.02	0.41
3:DJ:206:ALA:O	3:DJ:210:ILE:HG12	2.21	0.41
3:DJ:267:MET:HA	3:DJ:268:PRO:HD3	1.90	0.41
4:DK:329:ASN:HA	4:DK:332:ILE:HG12	2.02	0.41
3:DL:414:ASN:O	3:DL:418:LEU:HG	2.20	0.41
9:E:379:SER:N	9:E:381:GLN:HE22	2.18	0.41
9:E:417:ARG:CZ	3:IB:224:ASP:HA	2.51	0.41
10:E3:28:ARG:HE	10:E3:29:ASN:N	2.16	0.41
4:EA:254:GLU:OE1	4:EA:254:GLU:N	2.45	0.41
4:EA:272:TYR:CE1	4:EA:374:ALA:HB1	2.55	0.41
3:EB:33:THR:HG22	14:G4:518:TYR:CD1	2.56	0.41
4:EC:149:PHE:O	4:EC:153:LEU:HD23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ED:316:VAL:CG1	3:ED:366:THR:HB	2.51	0.41
4:EE:70:LEU:HA	4:EE:95:GLY:HA3	2.02	0.41
4:EE:186:ASN:OD1	4:EE:187:SER:N	2.53	0.41
3:EF:255:VAL:HA	4:EG:407:TRP:CH2	2.56	0.41
4:EG:384:ILE:HB	4:EG:388:TRP:HZ3	1.85	0.41
3:EH:52:ASN:ND2	3:EH:62:ARG:HD3	2.34	0.41
3:EH:119:VAL:O	3:EH:122:LYS:HG2	2.21	0.41
4:EI:2:ARG:HA	4:EI:133:GLN:HE22	1.85	0.41
4:EI:55:GLU:HA	4:EI:60:LYS:O	2.19	0.41
4:EI:163:LYS:HA	4:EI:163:LYS:HD3	1.71	0.41
4:EI:206:ASN:HA	4:EI:209:ILE:HD12	2.01	0.41
3:EJ:47:ILE:HG12	3:EJ:59:TYR:CD2	2.56	0.41
3:EJ:91:VAL:HG11	3:EJ:116:VAL:HG12	2.01	0.41
3:EJ:216:LYS:HB2	3:EJ:276:ARG:HH11	1.85	0.41
4:EK:252:LEU:HA	4:EK:255:PHE:CD2	2.56	0.41
3:EL:80:PRO:O	3:EL:83:GLN:NE2	2.34	0.41
9:F:340:TYR:HA	9:F:343:HIS:NE2	2.35	0.41
11:F1:248:HIS:NE2	11:F5:196:TYR:HD1	2.19	0.41
11:F2:105:ASN:ND2	11:Fk:443:LEU:HD11	2.31	0.41
11:F2:158:TYR:O	11:F2:162:ARG:NE	2.48	0.41
11:F2:357:LEU:HD13	11:F2:458:LYS:NZ	2.36	0.41
11:F3:124:MET:SD	11:F3:125:GLN:N	2.94	0.41
11:F6:353:VAL:HA	11:F6:356:LYS:NZ	2.36	0.41
11:F6:441:LEU:O	11:F6:445:VAL:HG23	2.20	0.41
3:FB:51:TYR:CD1	3:FB:61:PRO:HA	2.55	0.41
3:FB:182:PRO:HB2	3:FB:388:MET:HE1	2.01	0.41
3:FB:259:PRO:HA	4:FC:404:PHE:CD1	2.56	0.41
4:FC:10:GLY:C	4:FC:12:ALA:N	2.78	0.41
4:FC:119:LEU:HB3	4:FC:123:ARG:NH2	2.36	0.41
3:FF:317:PHE:HB3	3:FF:321:MET:HE3	2.03	0.41
4:FG:172:TYR:N	4:FG:204:VAL:O	2.32	0.41
4:FG:198:SER:HG	4:FG:266:HIS:HE2	1.63	0.41
4:FG:224:TYR:HA	4:FG:227:LEU:HB2	2.02	0.41
3:FH:324:LYS:HD3	4:FI:210:TYR:CE1	2.54	0.41
4:FI:286:LEU:HD23	4:FI:286:LEU:H	1.85	0.41
3:FJ:31:ASP:OD1	3:FJ:35:THR:N	2.53	0.41
4:FK:75:VAL:HG23	4:FK:92:LEU:HD12	2.03	0.41
3:FL:182:PRO:HA	3:FL:381:ILE:HD11	2.02	0.41
3:FL:375:GLN:H	3:FL:375:GLN:CD	2.29	0.41
3:FL:381:ILE:HD12	3:FL:384:GLN:OE1	2.20	0.41
11:Fb:175:ARG:O	11:Fb:178:GLU:HG3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Fb:447:THR:O	11:Fb:451:LEU:HG	2.20	0.41
11:Fc:119:ASP:O	11:Fc:122:ARG:HG2	2.20	0.41
11:Fd:97:ARG:O	11:Fd:101:LEU:HG	2.20	0.41
11:Ff:194:CYS:SG	11:Ff:472:MET:HE2	2.60	0.41
11:Fh:350:GLU:OE1	11:Fh:462:LEU:HD22	2.21	0.41
11:Fj:350:GLU:HA	11:Fj:353:VAL:HG22	2.02	0.41
11:Fk:208:HIS:HD2	11:Fk:213:LYS:HG3	1.83	0.41
11:Fk:380:ARG:NH1	14:G4:585:ILE:HA	2.36	0.41
11:Fl:292:ILE:O	11:Fl:295:THR:OG1	2.28	0.41
11:Fm:327:THR:O	11:Fm:331:GLN:HG2	2.21	0.41
12:G:192:ARG:O	12:G:196:VAL:HG23	2.21	0.41
12:G:214:ARG:HG3	12:G:215:ARG:HD2	2.02	0.41
14:G4:70:SER:HA	14:G4:73:ALA:HB3	2.03	0.41
14:G4:135:ARG:HB3	14:G4:146:PHE:CD2	2.55	0.41
14:G4:426:SER:OG	14:G4:432:ASN:N	2.53	0.41
14:G6:36:VAL:HB	14:G6:40:LYS:NZ	2.36	0.41
14:G6:154:ILE:HD12	14:G6:185:LEU:HD22	2.03	0.41
4:GA:332:ILE:HA	4:GA:335:ILE:HD13	2.02	0.41
3:GB:118:ASP:HA	3:GB:121:ARG:HG2	2.02	0.41
3:GB:207:LEU:HD22	3:GB:228:LEU:HD11	2.01	0.41
3:GB:280:GLN:H	3:GB:280:GLN:HG3	1.66	0.41
3:GB:282:ARG:HE	3:GB:288:GLU:CD	2.28	0.41
4:GC:215:ARG:NE	4:GC:215:ARG:HA	2.35	0.41
3:GD:152:ILE:HA	3:GD:155:ILE:HG12	2.03	0.41
4:GE:328:VAL:O	4:GE:332:ILE:HG12	2.21	0.41
4:GE:333:ALA:HA	4:GE:336:LYS:HD2	2.02	0.41
4:GE:399:TYR:CE1	4:GE:418:PHE:HB3	2.55	0.41
3:GF:16:ILE:HD13	3:GF:226:ASN:ND2	2.36	0.41
3:GF:109:GLY:O	3:GF:113:VAL:HG13	2.21	0.41
3:GH:167:PHE:HZ	3:GH:229:VAL:HG22	1.85	0.41
4:GI:5:ILE:HB	4:GI:135:PHE:HD1	1.84	0.41
4:GK:20:CYS:SG	4:GK:21:TRP:N	2.94	0.41
4:GK:262:TYR:OH	3:GL:391:ARG:O	2.38	0.41
15:H1:285:TYR:O	15:H1:286:MET:HE2	2.21	0.41
15:H3:38:THR:O	15:H3:42:LEU:HG	2.20	0.41
15:H4:292:MET:O	15:H4:294:ASP:N	2.54	0.41
4:HA:285:GLN:HE22	4:HA:287:SER:HB3	1.84	0.41
4:HA:315:CYS:HA	4:HA:379:SER:HA	2.02	0.41
3:HB:374:ILE:HA	3:HB:377:LEU:HD12	2.02	0.41
4:HC:139:HIS:CD2	4:HC:170:ALA:HB2	2.56	0.41
4:HC:155:GLU:O	4:HC:159:VAL:HG13	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HE:102:ASN:HA	4:HE:408:TYR:OH	2.20	0.41
3:HF:336:LYS:HD3	3:HF:337:ASN:HB3	2.01	0.41
4:HG:70:LEU:HA	4:HG:95:GLY:HA3	2.02	0.41
4:HG:103:TYR:HB2	4:HG:186:ASN:HB2	2.01	0.41
3:HH:135:LEU:O	3:HH:167:PHE:N	2.48	0.41
3:HH:305:PRO:HA	3:HH:373:ALA:HB2	2.02	0.41
4:HI:5:ILE:CD1	4:HI:64:ARG:HB3	2.51	0.41
4:HI:288:VAL:HG11	4:HI:327:ASP:HB2	2.02	0.41
3:HJ:21:TRP:CZ2	3:HJ:63:ALA:HB2	2.55	0.41
3:HJ:130:LEU:HB3	3:HJ:162:ARG:HH11	1.84	0.41
4:HK:417:GLU:O	4:HK:420:GLU:HG2	2.20	0.41
3:HL:277:GLY:O	3:HL:280:GLN:NE2	2.53	0.41
4:IA:21:TRP:CD1	4:IA:53:PHE:HE1	2.38	0.41
4:IA:72:PRO:HA	4:IA:75:VAL:HG12	2.01	0.41
3:IB:6:HIS:O	3:IB:63:ALA:HA	2.20	0.41
4:IC:50:ASN:OD1	4:IC:51:THR:N	2.54	0.41
4:IC:216:ASN:ND2	4:IC:275:VAL:O	2.53	0.41
4:IC:387:ALA:O	4:IC:391:LEU:HG	2.20	0.41
3:ID:305:PRO:HA	3:ID:373:ALA:HB2	2.02	0.41
3:ID:313:VAL:O	3:ID:349:VAL:HA	2.21	0.41
3:IF:77:ARG:HA	3:IF:77:ARG:HD2	1.89	0.41
3:IF:191:GLN:HA	3:IF:194:GLU:HG2	2.02	0.41
3:IF:228:LEU:O	3:IF:232:THR:HG23	2.21	0.41
4:IG:163:LYS:HA	4:IG:163:LYS:HD3	1.77	0.41
4:IG:224:TYR:CE2	39:IG:501:GTP:C6	3.09	0.41
4:IG:311:LYS:N	4:IG:382:THR:OG1	2.53	0.41
3:IH:101:TRP:HB2	3:IH:184:ASN:ND2	2.32	0.41
3:IH:323:MET:SD	3:IH:323:MET:N	2.89	0.41
3:IJ:51:TYR:CD1	3:IJ:61:PRO:HA	2.55	0.41
3:IJ:267:MET:O	3:IJ:369:GLY:N	2.36	0.41
4:IK:263:PRO:HD3	3:IL:396:HIS:CD2	2.55	0.41
4:IK:310:GLY:HA3	4:IK:383:ALA:HB2	2.02	0.41
4:IK:390:ARG:HA	4:IK:393:HIS:CD2	2.56	0.41
4:IM:315:CYS:HB3	4:IM:377:MET:CE	2.51	0.41
4:IM:431:ASP:O	4:IM:435:VAL:HG12	2.20	0.41
19:J1:32:ASN:HD21	19:J1:35:VAL:HG23	1.86	0.41
19:J3:32:ASN:O	19:J3:105:CYS:N	2.53	0.41
4:JA:10:GLY:O	4:JA:14:VAL:HG13	2.21	0.41
4:JA:420:GLU:HA	4:JA:423:GLU:OE2	2.19	0.41
3:JB:175:VAL:HG22	3:JB:177:ASP:H	1.85	0.41
3:JD:9:ALA:HB3	3:JD:135:LEU:HD11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JD:86:ARG:NE	3:JD:86:ARG:HA	2.36	0.41
3:JD:391:ARG:C	3:JD:392:LYS:HG3	2.45	0.41
4:JE:104:ALA:O	4:JE:108:TYR:N	2.52	0.41
4:JG:15:GLN:HG2	4:JG:228:ASN:ND2	2.36	0.41
4:JG:252:LEU:HA	4:JG:255:PHE:CD2	2.56	0.41
3:JH:20:PHE:CZ	3:JH:24:ILE:HD11	2.55	0.41
3:JH:28:HIS:HE1	3:JH:241:ARG:HD3	1.84	0.41
3:JH:217:LEU:O	3:JH:219:THR:N	2.53	0.41
3:JH:345:ILE:HD12	3:JH:346:PRO:HD2	2.02	0.41
3:JJ:203:ASP:O	3:JJ:207:LEU:HD23	2.21	0.41
3:JJ:372:THR:HG21	3:JJ:426:GLN:HG3	2.02	0.41
4:JK:53:PHE:HB3	4:JK:61:HIS:HB3	2.03	0.41
4:JK:331:ALA:O	4:JK:335:ILE:HG12	2.21	0.41
3:JL:132:GLY:HA3	3:JL:163:ILE:HB	2.01	0.41
3:JL:229:VAL:O	3:JL:232:THR:OG1	2.29	0.41
21:K3:272:THR:HB	21:K3:275:THR:HG23	2.01	0.41
21:K3:380:GLY:HA2	21:K4:115:ARG:NH1	2.35	0.41
21:K3:403:ARG:NH1	21:K4:243:GLN:HG2	2.35	0.41
21:K4:199:LEU:HA	21:K4:202:GLU:HG2	2.03	0.41
21:K4:477:ALA:O	21:K4:481:VAL:HG23	2.20	0.41
4:KA:137:ILE:HD13	4:KA:168:GLU:HG3	2.02	0.41
3:KB:3:GLU:HG2	3:KB:130:LEU:HD23	2.01	0.41
3:KB:240:LEU:HD22	3:KB:248:ALA:HB1	2.01	0.41
3:KB:398:TYR:HB2	3:KB:403:MET:HE3	2.01	0.41
4:KC:125:LEU:HD13	4:KC:128:LEU:HD21	2.02	0.41
3:KD:6:HIS:HE2	3:KD:136:THR:HG23	1.86	0.41
4:KG:11:GLN:O	4:KG:14:VAL:HG22	2.21	0.41
4:KG:50:ASN:OD1	4:KG:51:THR:N	2.53	0.41
4:KG:85:GLN:HG2	4:KG:86:LEU:HD22	2.02	0.41
4:KG:315:CYS:O	4:KG:351:PHE:HA	2.21	0.41
4:KG:331:ALA:O	4:KG:334:THR:OG1	2.31	0.41
3:KH:228:LEU:O	3:KH:232:THR:HG23	2.21	0.41
4:KI:31:GLN:HE22	4:KI:37:PRO:HD3	1.86	0.41
4:KI:209:ILE:HG23	4:KI:230:LEU:HD21	2.01	0.41
4:KI:328:VAL:O	4:KI:332:ILE:HG12	2.20	0.41
3:KJ:274:THR:HG21	3:KJ:279:GLN:HG3	2.01	0.41
4:KK:8:HIS:CD2	4:KK:17:GLY:HA3	2.56	0.41
4:KK:122:ILE:HG13	4:KK:123:ARG:N	2.34	0.41
4:KK:174:ALA:HB1	4:KK:207:GLU:OE2	2.21	0.41
4:KK:332:ILE:HG23	4:KK:336:LYS:NZ	2.35	0.41
4:KK:430:LYS:HG3	4:KK:431:ASP:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KL:173:PRO:HD3	3:KL:203:ASP:OD1	2.21	0.41
3:KL:251:ARG:O	3:KL:255:VAL:HG22	2.21	0.41
3:KL:266:PHE:CD1	3:KL:370:ASN:HB2	2.55	0.41
20:L:44:ARG:O	20:L:48:LYS:N	2.36	0.41
20:L:64:VAL:HB	20:L:144:VAL:HG22	2.02	0.41
22:L2:103:LYS:NZ	22:L2:108:THR:OG1	2.25	0.41
22:L2:140:GLY:O	4:MG:304:LYS:HB3	2.20	0.41
22:L4:38:ASP:HA	22:L4:41:LYS:HE3	2.03	0.41
4:LA:356:ASN:OD1	4:LA:358:GLN:HB3	2.20	0.41
3:LB:152:ILE:O	3:LB:156:ARG:HG2	2.20	0.41
4:LC:101:ASN:HA	4:LC:144:GLY:CA	2.38	0.41
3:LF:31:ASP:OD1	3:LF:35:THR:N	2.53	0.41
3:LF:173:PRO:HD3	3:LF:203:ASP:OD1	2.20	0.41
3:LF:350:LYS:HE3	4:LG:180:ALA:HA	2.01	0.41
4:LG:394:LYS:O	4:LG:398:MET:HG3	2.21	0.41
3:LH:106:TYR:HB2	3:LH:401:GLU:OE2	2.21	0.41
3:LH:196:THR:OG1	3:LH:198:GLU:O	2.35	0.41
3:LH:289:LEU:O	3:LH:293:MET:N	2.47	0.41
4:LI:119:LEU:HA	4:LI:122:ILE:HG12	2.03	0.41
4:LI:182:VAL:O	4:LI:185:TYR:HB2	2.20	0.41
4:LI:304:LYS:HD2	4:LI:304:LYS:H	1.85	0.41
3:LJ:82:GLY:HA2	3:LJ:85:PHE:CD2	2.55	0.41
4:LK:75:VAL:HG11	4:LK:94:THR:OG1	2.21	0.41
4:LK:174:ALA:HB3	4:LK:177:VAL:O	2.20	0.41
4:LK:268:PRO:HB2	4:LK:378:LEU:HD11	2.02	0.41
4:LK:346:TRP:HE1	3:LL:393:ALA:HB2	1.85	0.41
3:LL:266:PHE:CD1	3:LL:370:ASN:HB2	2.54	0.41
3:LL:374:ILE:HG22	3:LL:378:PHE:CE2	2.55	0.41
23:M:55:THR:OG1	23:M:70:ASN:HA	2.20	0.41
3:MB:238:THR:HB	3:MB:242:PHE:HD2	1.85	0.41
3:MB:252:LYS:O	3:MB:256:ASN:ND2	2.53	0.41
3:MD:24:ILE:HG23	3:MD:28:HIS:CE1	2.55	0.41
4:ME:9:VAL:HG22	4:ME:146:GLY:HA2	2.03	0.41
4:ME:345:ASP:N	4:ME:345:ASP:OD1	2.52	0.41
4:ME:390:ARG:HA	4:ME:393:HIS:CD2	2.55	0.41
4:ME:420:GLU:HA	4:ME:423:GLU:OE2	2.19	0.41
3:MF:228:LEU:O	3:MF:232:THR:HG23	2.21	0.41
3:MF:394:PHE:HA	3:MF:397:TRP:HZ3	1.85	0.41
4:MG:320:ARG:HH21	4:MG:358:GLN:HG3	1.85	0.41
3:MH:2:ARG:HA	3:MH:129:CYS:O	2.20	0.41
3:MJ:31:ASP:HB3	3:MJ:37:HIS:NE2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MK:88:HIS:HE1	4:MK:90:GLU:CD	2.29	0.41
4:MK:368:LEU:HD23	4:MK:368:LEU:H	1.85	0.41
4:MK:423:GLU:HA	4:MK:426:ALA:HB3	2.02	0.41
3:ML:198:GLU:OE2	3:ML:266:PHE:HD2	2.04	0.41
3:ML:211:CYS:HA	3:ML:215:LEU:HB2	2.03	0.41
3:ML:378:PHE:CE1	3:ML:419:VAL:HG22	2.56	0.41
3:ML:391:ARG:HD2	3:ML:391:ARG:HA	1.78	0.41
26:N1:159:ARG:HA	26:N1:164:GLY:O	2.21	0.41
4:NA:166:LYS:N	4:NA:199:ASP:OD2	2.54	0.41
4:NA:331:ALA:O	4:NA:334:THR:OG1	2.27	0.41
3:NB:255:VAL:HG12	4:NC:407:TRP:CD2	2.55	0.41
4:NC:161:TYR:HB3	4:NC:164:LYS:NZ	2.36	0.41
4:NC:287:SER:N	4:NC:290:GLU:OE2	2.47	0.41
4:NC:317:MET:O	4:NC:353:VAL:HA	2.20	0.41
3:ND:30:ILE:HG13	3:ND:36:TYR:CD1	2.56	0.41
3:ND:216:LYS:O	3:ND:276:ARG:NH2	2.53	0.41
3:ND:267:MET:HA	3:ND:268:PRO:HD3	1.91	0.41
4:NE:132:LEU:O	4:NE:132:LEU:HD12	2.20	0.41
4:NG:9:VAL:HG23	4:NG:149:PHE:HD2	1.86	0.41
4:NG:119:LEU:HA	4:NG:122:ILE:HG12	2.02	0.41
3:NH:8:GLN:NE2	3:NH:17:GLY:HA3	2.35	0.41
4:NI:12:ALA:HB1	39:NI:501:GTP:C5	2.56	0.41
3:NL:135:LEU:O	3:NL:167:PHE:N	2.50	0.41
3:NL:206:ALA:O	3:NL:210:ILE:HG12	2.21	0.41
28:O1:92:LEU:O	28:O1:96:ILE:N	2.54	0.41
4:OA:185:TYR:OH	4:OA:398:MET:HB3	2.20	0.41
3:OB:295:ASP:HB2	3:OB:298:ASN:HB2	2.02	0.41
4:OC:47:ASP:HB3	4:OC:49:PHE:CE2	2.55	0.41
4:OC:274:PRO:HG3	4:OC:374:ALA:HA	2.01	0.41
4:OC:394:LYS:O	4:OC:398:MET:HG2	2.21	0.41
3:OD:258:VAL:HG13	3:OD:263:LEU:HB2	2.02	0.41
4:OE:8:HIS:CD2	4:OE:17:GLY:HA3	2.55	0.41
4:OE:346:TRP:HH2	4:OE:435:VAL:HA	1.85	0.41
4:OE:405:VAL:HA	4:OE:408:TYR:HB2	2.02	0.41
4:OI:104:ALA:O	4:OI:108:TYR:N	2.50	0.41
4:OI:175:PRO:HB3	4:OI:390:ARG:HD2	2.02	0.41
4:OK:2:ARG:HA	4:OK:133:GLN:NE2	2.36	0.41
4:OK:178:SER:OG	4:OK:180:ALA:O	2.39	0.41
3:OL:217:LEU:O	3:OL:219:THR:N	2.54	0.41
27:P:266:HIS:CD2	27:P:267:ARG:HG3	2.55	0.41
29:P1:48:LEU:HB3	29:P1:50:GLN:NE2	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:P1:174:PHE:HE1	29:P1:187:LEU:HD11	1.84	0.41
29:P2:457:LEU:HD13	29:P2:457:LEU:HA	1.94	0.41
29:P3:101:ARG:O	29:P3:101:ARG:HG2	2.20	0.41
29:P3:167:SER:HB3	29:P3:170:ARG:O	2.21	0.41
29:P3:575:ASN:HB3	33:U:156:TRP:CH2	2.55	0.41
4:PA:150:ALA:HA	4:PA:153:LEU:HG	2.03	0.41
3:PB:375:GLN:HA	3:PB:378:PHE:CE1	2.55	0.41
3:PD:2:ARG:NH1	4:PE:97:GLU:HG3	2.35	0.41
3:PD:139:LEU:HD21	3:PD:170:VAL:HG22	2.01	0.41
3:PD:282:ARG:HE	3:PD:288:GLU:CD	2.28	0.41
4:PE:111:GLY:O	4:PE:115:VAL:HG13	2.21	0.41
4:PE:119:LEU:HD23	4:PE:122:ILE:HD12	2.03	0.41
4:PE:286:LEU:H	4:PE:286:LEU:HD23	1.84	0.41
4:PE:424:ASP:O	4:PE:428:LEU:HG	2.20	0.41
3:PF:261:PRO:HD3	4:PG:406:HIS:CG	2.55	0.41
4:PG:271:THR:HB	4:PG:377:MET:HB2	2.02	0.41
3:PH:222:TYR:HA	3:PH:225:LEU:HD13	2.03	0.41
3:PH:318:ARG:HD3	3:PH:358:PRO:HG3	2.02	0.41
4:PI:280:LYS:HD2	4:PI:280:LYS:HA	1.72	0.41
4:PI:397:LEU:HD12	4:PI:398:MET:N	2.35	0.41
3:PJ:16:ILE:HD13	3:PJ:226:ASN:ND2	2.28	0.41
3:PJ:245:GLN:HE22	4:PK:15:GLN:NE2	2.17	0.41
4:PK:166:LYS:NZ	4:PK:198:SER:HA	2.36	0.41
4:PK:257:THR:HA	3:PL:397:TRP:CZ2	2.56	0.41
3:PL:47:ILE:HG12	3:PL:59:TYR:CD2	2.54	0.41
4:PM:175:PRO:O	4:PM:390:ARG:HD3	2.20	0.41
30:Q2:1344:LEU:O	30:Q2:1348:LYS:HG2	2.21	0.41
30:Q3:1415:MET:O	30:Q3:1515:LEU:HG	2.20	0.41
3:QB:198:GLU:HA	3:QB:266:PHE:CE2	2.53	0.41
3:QB:240:LEU:HD13	3:QB:248:ALA:HB1	2.02	0.41
3:QB:309:ARG:NE	3:QB:426:GLN:HE21	2.08	0.41
3:QB:378:PHE:CD1	3:QB:419:VAL:HG22	2.56	0.41
4:QC:104:ALA:O	4:QC:108:TYR:N	2.52	0.41
4:QC:301:GLN:N	4:QC:301:GLN:OE1	2.53	0.41
3:QD:266:PHE:CD1	3:QD:370:ASN:HB2	2.55	0.41
4:QG:225:THR:O	4:QG:229:ARG:HB2	2.20	0.41
3:QH:66:VAL:HA	3:QH:91:VAL:O	2.20	0.41
4:QI:368:LEU:H	4:QI:368:LEU:HD23	1.85	0.41
3:QJ:28:HIS:O	3:QJ:43:GLN:NE2	2.54	0.41
3:QJ:197:ASP:HA	3:QJ:264:HIS:ND1	2.36	0.41
4:QK:2:ARG:HA	4:QK:133:GLN:HE22	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QL:11:GLN:HE21	39:QL:501:GTP:H3'	1.86	0.41
3:QL:156:ARG:CZ	3:QL:164:MET:HE3	2.50	0.41
3:QL:188:SER:O	3:QL:192:LEU:HG	2.20	0.41
4:QM:312:TYR:HB2	4:QM:343:PHE:HA	2.02	0.41
3:RB:148:GLY:O	3:RB:152:ILE:HG12	2.20	0.41
3:RB:173:PRO:HD2	3:RB:205:GLU:CD	2.46	0.41
4:RC:329:ASN:OD1	4:RC:330:ALA:N	2.54	0.41
3:RD:266:PHE:HD1	3:RD:370:ASN:OD1	2.03	0.41
4:RE:28:HIS:HB2	4:RE:30:ILE:HG12	2.02	0.41
3:RF:404:ASP:OD1	3:RF:404:ASP:N	2.48	0.41
4:RG:269:LEU:N	4:RG:379:SER:O	2.47	0.41
4:RG:280:LYS:HD2	4:RG:280:LYS:HA	1.74	0.41
4:RG:315:CYS:O	4:RG:351:PHE:HA	2.21	0.41
4:RI:431:ASP:HA	4:RI:434:GLU:HG2	2.03	0.41
3:RJ:305:PRO:HB2	3:RJ:310:TYR:HE1	1.85	0.41
4:RK:285:GLN:NE2	4:RK:286:LEU:O	2.53	0.41
3:RL:263:LEU:HG	3:RL:266:PHE:HE1	1.84	0.41
3:RL:292:GLN:HA	3:RL:295:ASP:OD2	2.21	0.41
3:RL:345:ILE:HD11	4:RM:181:VAL:HG11	2.02	0.41
4:RM:79:ARG:O	4:RM:84:ARG:HG3	2.21	0.41
4:SC:114:ILE:O	4:SC:118:VAL:HG23	2.20	0.41
4:SC:216:ASN:HD21	4:SC:275:VAL:HG23	1.85	0.41
4:SC:259:LEU:HD13	4:SC:314:ALA:HB1	2.02	0.41
4:SC:326:LYS:HD3	3:SD:220:PRO:HD2	2.01	0.41
3:SD:235:GLY:O	3:SD:238:THR:OG1	2.25	0.41
3:SF:252:LYS:HD3	4:SG:100:ALA:HA	2.02	0.41
4:SG:346:TRP:N	4:SG:346:TRP:CD1	2.87	0.41
4:SG:389:ALA:HA	4:SG:392:ASP:OD2	2.21	0.41
4:SK:105:ARG:O	4:SK:109:THR:OG1	2.29	0.41
3:SL:258:VAL:HB	4:SM:407:TRP:CZ2	2.56	0.41
3:SL:392:LYS:HD2	3:SL:392:LYS:O	2.20	0.41
4:SM:119:LEU:HD23	4:SM:122:ILE:HD12	2.02	0.41
4:SM:176:GLN:NE2	4:SM:177:VAL:HG23	2.35	0.41
4:SM:402:ARG:HH12	4:SM:406:HIS:N	2.18	0.41
32:T:337:MET:HA	32:T:340:MET:CG	2.48	0.41
4:TC:68:VAL:HG12	4:TC:93:ILE:HB	2.03	0.41
4:TC:265:ILE:HD12	4:TC:432:TYR:CE1	2.56	0.41
3:TF:19:LYS:HZ1	3:TF:227:HIS:HB2	1.85	0.41
3:TF:156:ARG:NE	3:TF:164:MET:HE3	2.36	0.41
4:TG:11:GLN:O	4:TG:14:VAL:HG22	2.20	0.41
4:TG:90:GLU:HG2	4:TG:121:ARG:NH2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:TG:320:ARG:HD3	4:TG:360:PRO:HG3	2.03	0.41
3:TJ:357:PRO:HB3	3:TJ:362:LYS:HA	2.01	0.41
4:TK:169:PHE:CD2	4:TK:202:PHE:HB2	2.55	0.41
4:TM:160:ASP:OD1	4:TM:161:TYR:N	2.53	0.41
4:TM:346:TRP:HE1	3:TN:391:ARG:NH1	2.18	0.41
3:TN:12:CYS:HB3	39:TN:501:GTP:H5'	2.02	0.41
4:UA:28:HIS:HB2	4:UA:30:ILE:HG12	2.03	0.41
4:UA:55:GLU:HA	4:UA:60:LYS:O	2.21	0.41
4:UA:348:PRO:HG2	3:UB:384:GLN:OE1	2.20	0.41
3:UB:164:MET:HG3	3:UB:164:MET:O	2.20	0.41
4:UC:271:THR:HG23	4:UC:302:MET:HE1	2.03	0.41
4:UC:287:SER:HG	4:UC:290:GLU:CD	2.22	0.41
3:UD:269:GLY:N	3:UD:367:PHE:O	2.53	0.41
4:UG:217:LEU:HD13	4:UG:277:SER:HA	2.02	0.41
3:UH:81:PHE:HD1	3:UH:84:ILE:HD13	1.84	0.41
3:UH:166:THR:OG1	3:UH:198:GLU:O	2.30	0.41
4:UI:88:HIS:CE1	4:UI:90:GLU:HG2	2.56	0.41
3:UJ:39:ASP:OD1	3:UJ:39:ASP:N	2.54	0.41
3:UJ:271:ALA:HB2	3:UJ:365:ALA:HB3	2.02	0.41
3:UJ:389:PHE:HZ	3:UJ:405:GLU:HB2	1.84	0.41
3:UL:174:LYS:HG2	3:UL:205:GLU:OE2	2.21	0.41
4:VA:275:VAL:O	4:VA:275:VAL:HG23	2.20	0.41
3:VB:20:PHE:O	3:VB:24:ILE:HG12	2.21	0.41
4:VC:46:ASP:HA	4:VC:50:ASN:HB3	2.02	0.41
4:VC:213:CYS:O	4:VC:218:ASP:N	2.53	0.41
4:VC:390:ARG:HA	4:VC:393:HIS:CD2	2.56	0.41
3:VD:305:PRO:HB2	3:VD:310:TYR:CE1	2.54	0.41
4:VG:6:SER:HB3	4:VG:65:ALA:HB2	2.03	0.41
4:VG:108:TYR:O	4:VG:112:LYS:HG3	2.20	0.41
3:VH:99:ASN:OD1	3:VH:142:GLY:HA3	2.20	0.41
3:VH:148:GLY:O	3:VH:152:ILE:HG12	2.21	0.41
4:VI:263:PRO:HB2	4:VI:264:ARG:NH1	2.35	0.41
4:VK:188:ILE:HG22	4:VK:421:ALA:HB1	2.02	0.41
3:VL:51:TYR:CD1	3:VL:61:PRO:HA	2.55	0.41
3:VL:292:GLN:HA	3:VL:295:ASP:OD2	2.21	0.41
3:WB:255:VAL:HG12	4:WC:407:TRP:CD2	2.56	0.41
4:WC:201:ALA:H	4:WC:266:HIS:HD2	1.67	0.41
4:WC:252:LEU:HA	4:WC:255:PHE:CD2	2.56	0.41
4:WE:317:MET:SD	4:WE:317:MET:N	2.93	0.41
3:WF:49:VAL:C	3:WF:62:ARG:HH21	2.27	0.41
3:WF:106:TYR:HB2	3:WF:401:GLU:OE2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:WF:117:LEU:HB3	3:WF:121:ARG:NH2	2.35	0.41
3:WH:4:ILE:HB	3:WH:50:TYR:CE1	2.56	0.41
3:WH:313:VAL:HG23	3:WH:349:VAL:HA	2.02	0.41
4:WI:115:VAL:HG11	4:WI:152:LEU:HD22	2.02	0.41
4:WI:263:PRO:O	4:WI:264:ARG:HB2	2.19	0.41
3:WL:180:VAL:HG23	3:WL:183:TYR:HD2	1.84	0.41
34:XC:24:ILE:HG22	34:XC:25:TRP:CZ3	2.56	0.41
34:XF:92:GLN:HA	34:XF:102:ARG:HA	2.02	0.41
34:XG:114:VAL:HG22	34:XG:119:CYS:SG	2.60	0.41
35:XH:166:VAL:HB	35:XH:219:TYR:HE2	1.85	0.41
35:XH:171:LEU:HD23	35:XH:174:TYR:CE2	2.56	0.41
35:XI:94:PRO:HA	35:XI:97:PHE:HB2	2.01	0.41
35:XI:213:LEU:HB3	35:XI:235:TYR:CE1	2.56	0.41
35:XM:93:LEU:HB3	35:XM:94:PRO:HD3	2.03	0.41
37:YB:87:HIS:CE1	37:YB:89:GLY:HA2	2.55	0.41
37:YC:64:ARG:HA	37:YC:67:ILE:HG12	2.02	0.41
37:YE:63:ARG:O	37:YE:67:ILE:HG23	2.20	0.41
37:YG:64:ARG:HG2	37:YG:68:MET:HE1	2.03	0.41
37:YH:42:PRO:HB3	37:YH:133:HIS:HA	2.02	0.41
37:YH:42:PRO:HG3	37:YH:132:ASN:O	2.20	0.41
37:YM:46:ILE:HD12	37:YM:46:ILE:H	1.85	0.41
37:YM:90:THR:HG23	37:YM:162:VAL:HG11	2.02	0.41
37:YM:100:CYS:O	37:YM:104:VAL:HG23	2.20	0.41
37:YP:59:ASN:HB2	37:YP:62:HIS:CE1	2.56	0.41
37:YP:112:SER:HA	37:YP:135:GLY:HA3	2.01	0.41
37:YV:90:THR:N	37:YV:93:THR:OG1	2.54	0.41
37:YW:6:GLU:HA	37:YW:9:ARG:CZ	2.51	0.41
37:YW:92:VAL:HG21	37:YW:154:HIS:CD2	2.56	0.41
36:Z:235:GLU:HA	36:Z:238:LYS:HG2	2.01	0.41
38:a:45:LEU:O	38:a:49:LEU:HG	2.21	0.41
2:A1:242:VAL:O	2:A1:246:LEU:HG	2.21	0.41
2:A1:340:GLU:HA	2:A1:343:GLU:HG3	2.03	0.41
2:A3:15:GLU:HA	2:A3:18:ILE:HG22	2.03	0.41
4:AC:234:ILE:O	4:AC:237:SER:OG	2.32	0.41
3:AD:52:ASN:CG	3:AD:62:ARG:HD3	2.45	0.41
3:AD:246:LEU:HD22	3:AD:354:CYS:HA	2.03	0.41
4:AE:45:GLY:HA2	4:AE:49:PHE:HE1	1.84	0.41
4:AE:90:GLU:HG2	4:AE:121:ARG:NH2	2.35	0.41
3:AF:306:ARG:O	3:AF:306:ARG:NE	2.46	0.41
4:AG:11:GLN:HG2	39:AG:501:GTP:O1B	2.20	0.41
4:AG:196:GLU:OE1	4:AG:196:GLU:N	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AH:113:VAL:HA	3:AH:116:VAL:HG22	2.03	0.41
4:AI:167:LEU:HB3	4:AI:169:PHE:CE1	2.56	0.41
4:AK:6:SER:HA	4:AK:136:LEU:HB2	2.02	0.41
3:AL:271:ALA:HB2	3:AL:365:ALA:O	2.20	0.41
3:AL:325:GLU:HG2	3:AL:326:VAL:H	1.85	0.41
3:AL:330:MET:HA	3:AL:333:VAL:HG22	2.02	0.41
5:B1:120:ARG:NH2	5:B1:386:LEU:HB3	2.36	0.41
5:B1:284:LYS:HA	5:B1:287:LEU:HD12	2.01	0.41
5:B2:165:LEU:HD21	5:B2:232:GLU:HB3	2.02	0.41
5:B3:321:ARG:HG3	5:B3:324:ARG:NE	2.32	0.41
5:B7:214:THR:HG22	5:B8:331:ARG:CZ	2.50	0.41
5:B8:108:LEU:N	5:B8:109:PRO:HD2	2.36	0.41
5:B8:203:VAL:HG13	5:B8:207:ARG:HH22	1.86	0.41
5:B8:306:ARG:O	5:B8:309:MET:HG2	2.21	0.41
4:BC:79:ARG:HB3	15:H1:20:TYR:CE1	2.54	0.41
4:BC:165:SER:C	4:BC:166:LYS:HD2	2.45	0.41
3:BD:108:GLU:O	3:BD:112:LEU:HD23	2.20	0.41
4:BE:55:GLU:HA	4:BE:60:LYS:O	2.21	0.41
4:BE:415:GLU:O	4:BE:419:SER:N	2.51	0.41
4:BG:30:ILE:HD13	4:BG:36:MET:SD	2.60	0.41
4:BG:280:LYS:O	4:BG:284:GLU:HB2	2.20	0.41
4:BG:352:LYS:NZ	3:BH:178:THR:HA	2.35	0.41
3:BH:214:THR:HG21	3:BH:273:LEU:HB3	2.01	0.41
3:BH:317:PHE:CE2	3:BH:326:VAL:HG23	2.55	0.41
3:BH:392:LYS:HD2	3:BH:392:LYS:O	2.20	0.41
4:BI:43:GLY:HA2	13:G2:229:PHE:CD2	2.55	0.41
4:BI:75:VAL:HG23	4:BI:92:LEU:HD12	2.02	0.41
4:BI:260:VAL:HG23	4:BI:265:ILE:O	2.20	0.41
4:BI:265:ILE:HD12	4:BI:432:TYR:CE1	2.55	0.41
3:BJ:14:ASN:ND2	3:BJ:67:ASP:OD2	2.53	0.41
3:BJ:240:LEU:HD22	3:BJ:248:ALA:HB1	2.02	0.41
3:BJ:324:LYS:HE2	4:BK:222:PRO:HD2	2.03	0.41
3:BJ:378:PHE:CE1	3:BJ:419:VAL:HG22	2.56	0.41
3:BL:1:MET:HE1	3:BL:49:VAL:HA	2.02	0.41
3:BL:31:ASP:OD1	3:BL:31:ASP:N	2.54	0.41
6:C:278:ILE:HG12	6:C:281:ARG:NH2	2.35	0.41
7:C1:146:LEU:O	7:C1:150:VAL:HG23	2.20	0.41
7:C1:293:THR:HB	7:C2:413:ARG:HG3	2.02	0.41
7:C2:203:GLU:O	7:C2:204:LYS:HD2	2.21	0.41
7:C2:406:ARG:HH11	7:C2:412:CYS:H	1.68	0.41
7:C3:181:LEU:O	7:C3:185:LEU:HG	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C3:376:GLU:O	7:C3:380:GLU:OE1	2.39	0.41
7:C7:198:CYS:HA	7:C7:472:LYS:NZ	2.35	0.41
7:C7:266:ARG:NH2	8:D8:250:SER:O	2.53	0.41
7:C7:462:LYS:HG3	7:C7:463:ALA:N	2.34	0.41
7:C8:336:MET:SD	7:C8:337:TRP:N	2.93	0.41
7:C8:392:PHE:O	7:C8:395:VAL:HG12	2.21	0.41
7:C9:319:ALA:O	7:C9:323:GLU:OE1	2.39	0.41
3:CB:30:ILE:HG13	3:CB:36:TYR:HD1	1.86	0.41
3:CB:137:HIS:O	3:CB:168:SER:HA	2.20	0.41
3:CB:376:GLU:OE1	3:CB:376:GLU:N	2.31	0.41
3:CD:324:LYS:NZ	4:CE:222:PRO:O	2.33	0.41
4:CE:16:ILE:HG13	4:CE:17:GLY:N	2.33	0.41
4:CE:104:ALA:HA	4:CE:107:HIS:HB3	2.02	0.41
4:CG:229:ARG:NH2	4:CG:367:ASP:H	2.18	0.41
3:CH:166:THR:OG1	3:CH:199:THR:HA	2.20	0.41
4:CI:68:VAL:HG21	4:CI:149:PHE:HE2	1.86	0.41
4:CI:75:VAL:O	4:CI:79:ARG:HB2	2.21	0.41
4:CI:139:HIS:O	4:CI:170:ALA:HA	2.21	0.41
3:CJ:12:CYS:HA	3:CJ:15:GLN:OE1	2.20	0.41
3:CJ:39:ASP:OD1	3:CJ:39:ASP:N	2.51	0.41
3:CJ:246:LEU:HB3	3:CJ:353:VAL:O	2.20	0.41
4:CK:386:GLU:HA	4:CK:389:ALA:HB3	2.02	0.41
3:CL:41:ASP:OD1	3:CL:42:LEU:N	2.53	0.41
3:CL:56:GLY:N	15:H6:230:TRP:HZ2	2.13	0.41
4:CM:425:LEU:O	4:CM:428:LEU:N	2.53	0.41
7:Ca:387:LYS:H	7:Ca:387:LYS:HG3	1.68	0.41
7:Cb:114:ARG:NH1	7:Cb:115:HIS:HB2	2.35	0.41
7:Cb:205:ARG:HH21	7:Cb:210:LEU:HA	1.86	0.41
7:Cb:299:THR:O	7:Cb:302:LYS:HG2	2.21	0.41
7:Cc:166:GLU:OE1	7:Cc:315:ARG:NH2	2.54	0.41
7:Cc:202:ARG:HB2	7:Cc:472:LYS:NZ	2.36	0.41
6:D:30:ALA:N	6:D:43:TYR:O	2.53	0.41
8:D2:131:MET:HE1	8:D2:201:ILE:HA	2.02	0.41
8:D3:405:LEU:O	8:D3:408:SER:OG	2.34	0.41
8:D4:102:LYS:NZ	8:D5:376:ARG:HD2	2.35	0.41
8:D4:321:HIS:HA	8:D4:324:LYS:HZ3	1.85	0.41
8:D5:357:LEU:HG	8:D5:377:LEU:HD13	2.02	0.41
8:D7:116:GLU:HA	8:D7:119:ARG:HG2	2.03	0.41
8:D7:175:GLU:OE2	8:D7:299:ALA:HB3	2.20	0.41
8:D8:320:TYR:HA	8:D8:323:ARG:NH2	2.35	0.41
8:D8:432:THR:O	8:D8:436:ARG:HD3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:D9:211:CYS:HA	8:D9:214:ASN:ND2	2.36	0.41
4:DA:116:ASP:HA	4:DA:119:LEU:HD12	2.02	0.41
4:DA:122:ILE:O	4:DA:126:ALA:N	2.49	0.41
4:DA:311:LYS:HE3	4:DA:344:VAL:HA	2.03	0.41
4:DA:318:LEU:O	4:DA:375:VAL:HA	2.20	0.41
3:DB:31:ASP:OD2	3:DB:35:THR:OG1	2.38	0.41
3:DB:234:SER:O	3:DB:238:THR:HG23	2.21	0.41
4:DE:192:HIS:CE1	4:DE:193:THR:HG23	2.56	0.41
3:DF:32:PRO:O	3:DF:83:GLN:NE2	2.39	0.41
3:DF:275:SER:O	3:DF:279:GLN:NE2	2.54	0.41
4:DG:9:VAL:CG1	4:DG:139:HIS:HB3	2.51	0.41
4:DG:260:VAL:O	3:DH:397:TRP:HH2	2.04	0.41
4:DI:320:ARG:HH21	4:DI:358:GLN:HG3	1.85	0.41
3:DJ:51:TYR:CD1	3:DJ:61:PRO:HA	2.54	0.41
4:DK:209:ILE:HD12	4:DK:209:ILE:H	1.84	0.41
4:DK:324:VAL:HG21	3:DL:219:THR:HG22	2.02	0.41
3:DL:374:ILE:HG22	3:DL:378:PHE:CE2	2.56	0.41
4:EA:264:ARG:O	4:EA:266:HIS:ND1	2.53	0.41
3:ED:11:GLN:HG3	39:ED:501:GTP:PA	2.60	0.41
3:ED:51:TYR:CD1	3:ED:61:PRO:HA	2.55	0.41
3:EF:4:ILE:HB	3:EF:50:TYR:CE1	2.54	0.41
3:EF:391:ARG:C	3:EF:392:LYS:HG3	2.46	0.41
4:EI:10:GLY:HA2	4:EI:145:THR:HG1	1.85	0.41
3:EJ:318:ARG:HD3	3:EJ:358:PRO:HG3	2.03	0.41
3:EL:231:ALA:O	3:EL:234:SER:OG	2.24	0.41
3:EL:262:ARG:NH2	3:EL:425:TYR:OH	2.54	0.41
9:F:331:ARG:NH1	9:F:334:ASP:OD2	2.53	0.41
9:F:380:HIS:O	9:F:380:HIS:CG	2.74	0.41
11:F1:254:ILE:HD13	11:F1:254:ILE:HA	1.95	0.41
11:F2:190:VAL:HG13	11:F2:472:MET:HG2	2.02	0.41
11:F3:318:ARG:O	11:F3:322:GLU:HG3	2.20	0.41
11:F3:323:HIS:HA	11:F3:326:GLU:OE2	2.21	0.41
11:F3:453:HIS:O	11:F3:457:ILE:HG12	2.21	0.41
11:F4:171:ASP:HB3	11:F4:175:ARG:HH12	1.86	0.41
11:F5:247:GLN:O	11:F5:251:GLU:OE1	2.38	0.41
11:F6:136:GLU:HG3	11:F6:140:ARG:HH21	1.85	0.41
11:F6:361:LEU:HD22	11:F6:455:LEU:HD22	2.02	0.41
11:F7:125:GLN:C	11:F7:129:GLN:HE22	2.29	0.41
11:F7:283:VAL:HG12	11:F7:283:VAL:O	2.20	0.41
11:F7:390:LYS:C	11:F7:390:LYS:HD3	2.45	0.41
11:F7:450:ARG:HA	11:F7:453:HIS:ND1	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FA:160:ASP:OD1	4:FA:161:TYR:N	2.54	0.41
3:FB:276:ARG:HB2	14:G4:474:GLY:HA3	2.01	0.41
4:FC:263:PRO:O	4:FC:264:ARG:HB2	2.21	0.41
3:FD:390:ARG:HA	3:FD:390:ARG:HD2	1.85	0.41
3:FF:3:GLU:OE2	3:FF:129:CYS:N	2.54	0.41
3:FF:374:ILE:HA	3:FF:377:LEU:HD12	2.02	0.41
3:FF:410:GLU:HA	3:FF:413:SER:HB3	2.01	0.41
4:FG:186:ASN:HA	4:FG:189:LEU:HB2	2.03	0.41
4:FG:229:ARG:NH1	4:FG:233:GLN:HB2	2.34	0.41
4:FG:263:PRO:HB2	4:FG:264:ARG:NH1	2.35	0.41
3:FH:350:LYS:NZ	4:FI:181:VAL:HG13	2.35	0.41
4:FI:24:TYR:O	4:FI:28:HIS:ND1	2.42	0.41
4:FI:104:ALA:HB1	4:FI:108:TYR:HD2	1.86	0.41
4:FK:288:VAL:HG23	4:FK:319:TYR:OH	2.21	0.41
11:Fa:315:ILE:H	11:Fa:315:ILE:HD12	1.85	0.41
11:Fa:413:GLN:O	11:Fa:416:LEU:HG	2.20	0.41
11:Fb:390:LYS:O	11:Fb:393:GLN:HG2	2.21	0.41
11:Fe:327:THR:O	11:Fe:331:GLN:HG2	2.20	0.41
11:Fg:188:LEU:O	11:Fg:192:LEU:HG	2.21	0.41
11:Fj:375:ILE:HD11	11:Fj:441:LEU:HG	2.03	0.41
11:Fk:121:LEU:HA	11:Fk:124:MET:HG3	2.02	0.41
11:Fk:248:HIS:O	11:Fk:252:ARG:HG3	2.20	0.41
11:Fk:292:ILE:HD12	11:Fk:292:ILE:H	1.85	0.41
11:Fl:205:ASP:N	11:Fl:205:ASP:OD1	2.54	0.41
11:Fl:345:ALA:O	11:Fl:349:GLU:OE1	2.38	0.41
12:G:69:ARG:HB3	12:G:73:LYS:NZ	2.36	0.41
13:G2:281:ARG:HH11	13:G2:282:ASN:H	1.68	0.41
13:G2:478:PRO:HB2	13:G2:480:ASP:OD1	2.21	0.41
14:G5:13:ARG:NH1	14:G5:17:LYS:HB3	2.28	0.41
14:G5:142:ASN:ND2	14:G5:145:GLN:HE22	2.18	0.41
14:G5:636:ASP:OD1	14:G5:637:MET:N	2.54	0.41
14:G6:7:PRO:HA	3:ML:227:HIS:CD2	2.55	0.41
14:G6:311:SER:HB2	14:G6:313:TRP:CZ3	2.55	0.41
14:G6:553:LYS:O	14:G6:556:LYS:HE3	2.20	0.41
14:G6:570:ASP:OD1	14:G6:571:TYR:N	2.53	0.41
14:G6:673:PHE:HA	14:G6:676:CYS:HB2	2.02	0.41
4:GA:11:GLN:HG3	39:GA:501:GTP:O1B	2.20	0.41
4:GA:52:PHE:HZ	4:GA:239:THR:HB	1.86	0.41
3:GB:40:SER:HB2	3:GB:43:GLN:CD	2.45	0.41
3:GB:40:SER:HB3	3:GB:42:LEU:HD23	2.02	0.41
3:GB:324:LYS:HG3	4:GC:221:ARG:NH1	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GD:6:HIS:HB3	3:GD:21:TRP:HZ2	1.85	0.41
3:GD:317:PHE:HB3	3:GD:321:MET:HE3	2.03	0.41
4:GE:33:ASP:OD1	4:GE:34:GLY:N	2.54	0.41
4:GE:240:ALA:O	4:GE:244:PHE:N	2.44	0.41
4:GE:280:LYS:HD2	4:GE:280:LYS:HA	1.67	0.41
3:GF:17:GLY:HA2	3:GF:20:PHE:HB3	2.03	0.41
3:GH:324:LYS:HD2	4:GI:221:ARG:HA	2.03	0.41
3:GJ:324:LYS:HE2	4:GK:222:PRO:CD	2.51	0.41
3:GJ:330:MET:SD	3:GJ:349:VAL:HG21	2.61	0.41
15:H5:24:TYR:O	15:H5:27:LEU:HD23	2.21	0.41
15:H6:246:ASP:HA	15:H6:249:LYS:HE3	2.03	0.41
4:HA:5:ILE:HB	4:HA:135:PHE:CD1	2.56	0.41
4:HA:9:VAL:HG23	4:HA:149:PHE:HD2	1.84	0.41
4:HC:234:ILE:O	4:HC:238:ILE:HG23	2.21	0.41
4:HC:262:TYR:CE1	3:HD:393:ALA:HA	2.53	0.41
3:HD:36:TYR:CE1	3:HD:38:GLY:HA2	2.55	0.41
4:HE:295:CYS:CB	4:HE:377:MET:HE3	2.47	0.41
3:HF:87:PRO:HA	3:HF:90:PHE:CD2	2.56	0.41
4:HG:69:ASP:OD1	4:HG:94:THR:HA	2.20	0.41
4:HG:90:GLU:OE1	4:HG:90:GLU:N	2.54	0.41
3:HH:52:ASN:ND2	3:HH:62:ARG:HD3	2.35	0.41
3:HH:139:LEU:HD21	3:HH:170:VAL:HG22	2.02	0.41
3:HH:148:GLY:O	3:HH:152:ILE:HG12	2.21	0.41
4:HI:19:ALA:HA	4:HI:22:GLU:OE1	2.20	0.41
4:HI:132:LEU:HD12	4:HI:132:LEU:O	2.20	0.41
4:HI:202:PHE:HE1	4:HI:378:LEU:HD11	1.85	0.41
4:HI:237:SER:OG	4:HI:376:CYS:SG	2.70	0.41
4:HK:108:TYR:O	4:HK:112:LYS:NZ	2.46	0.41
4:HK:167:LEU:HD13	4:HK:200:CYS:SG	2.60	0.41
4:HK:438:ASP:C	3:HL:391:ARG:HH12	2.28	0.41
3:HL:12:CYS:SG	39:HL:501:GTP:H5'	2.61	0.41
3:HL:15:GLN:CB	3:HL:222:TYR:HE2	2.34	0.41
3:HL:268:PRO:HD2	3:HL:301:ALA:HB2	2.02	0.41
3:HL:404:ASP:O	3:HL:407:GLU:HG2	2.21	0.41
17:I2:61:TYR:HB2	17:I2:69:PHE:CD2	2.55	0.41
3:ID:14:ASN:ND2	3:ID:67:ASP:OD2	2.54	0.41
3:ID:135:LEU:HD21	3:ID:151:LEU:HD11	2.02	0.41
4:IE:163:LYS:HA	4:IE:163:LYS:HD3	1.77	0.41
4:IE:324:VAL:HG11	3:IF:219:THR:HB	2.01	0.41
3:IF:198:GLU:HA	3:IF:266:PHE:CE2	2.54	0.41
4:IG:345:ASP:OD1	4:IG:345:ASP:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IH:48:ASN:HA	3:IH:51:TYR:O	2.20	0.41
3:IJ:101:TRP:CE2	3:IJ:187:LEU:HB3	2.56	0.41
3:IJ:324:LYS:HG3	4:IK:221:ARG:NH1	2.36	0.41
4:IK:22:GLU:HG2	4:IK:83:TYR:CE2	2.56	0.41
4:IK:280:LYS:HD2	4:IK:280:LYS:HA	1.84	0.41
4:IK:414:GLU:HG2	4:IK:417:GLU:OE2	2.20	0.41
3:IL:246:LEU:HD22	3:IL:354:CYS:HA	2.02	0.41
3:IL:376:GLU:HA	3:IL:379:LYS:HB3	2.03	0.41
4:IM:252:LEU:HD12	4:IM:253:THR:N	2.36	0.41
19:J2:95:GLU:HG2	19:J2:96:MET:N	2.35	0.41
4:JA:280:LYS:HD2	4:JA:280:LYS:HA	1.81	0.41
4:JC:246:GLY:HA3	4:JC:356:ASN:HA	2.03	0.41
4:JC:327:ASP:OD1	4:JC:327:ASP:N	2.52	0.41
3:JD:94:GLN:HG3	3:JD:94:GLN:O	2.20	0.41
3:JD:228:LEU:O	3:JD:232:THR:HG23	2.21	0.41
3:JD:330:MET:HA	3:JD:333:VAL:HG12	2.02	0.41
39:JD:501:GTP:O3G	39:JD:501:GTP:O3'	2.19	0.41
4:JE:102:ASN:HD22	4:JE:105:ARG:HG3	1.85	0.41
4:JE:397:LEU:O	4:JE:401:LYS:HG2	2.21	0.41
4:JG:2:ARG:HA	4:JG:133:GLN:HE22	1.86	0.41
3:JH:12:CYS:CB	39:JH:501:GTP:H5'	2.49	0.41
3:JH:318:ARG:C	3:JH:321:MET:HE1	2.45	0.41
4:JI:252:LEU:HA	4:JI:255:PHE:CD2	2.56	0.41
20:K:31:GLU:O	20:K:35:LYS:HG2	2.21	0.41
21:K2:186:PRO:HG2	21:K2:452:ILE:HG22	2.03	0.41
21:K2:350:MET:O	21:K2:353:THR:OG1	2.30	0.41
21:K2:427:LEU:O	21:K2:431:LYS:HG3	2.20	0.41
21:K3:147:ILE:O	21:K3:151:LEU:HD13	2.19	0.41
21:K3:263:SER:C	21:K3:265:VAL:H	2.28	0.41
21:K4:175:ASN:HD21	21:K4:202:GLU:HG3	1.86	0.41
21:K4:357:MET:O	21:K4:361:ILE:HG13	2.21	0.41
4:KA:234:ILE:O	4:KA:238:ILE:HG23	2.20	0.41
3:KB:152:ILE:O	3:KB:156:ARG:HG2	2.21	0.41
4:KC:117:LEU:O	4:KC:121:ARG:HG2	2.20	0.41
4:KC:260:VAL:HG13	3:KD:397:TRP:CH2	2.56	0.41
4:KE:87:PHE:HB3	4:KE:92:LEU:CD2	2.50	0.41
4:KG:333:ALA:HA	4:KG:336:LYS:HD2	2.02	0.41
3:KH:19:LYS:NZ	3:KH:223:GLY:O	2.51	0.41
3:KH:394:PHE:HA	3:KH:397:TRP:HZ3	1.86	0.41
4:KI:208:ALA:H	4:KI:304:LYS:NZ	2.18	0.41
4:KI:260:VAL:HG23	4:KI:265:ILE:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KJ:58:LYS:HE2	3:LJ:281:TYR:CE1	2.55	0.41
3:KJ:211:CYS:HA	3:KJ:215:LEU:HD12	2.02	0.41
3:KJ:317:PHE:HB3	3:KJ:321:MET:HE3	2.02	0.41
4:KK:174:ALA:HA	4:KK:205:ASP:OD1	2.21	0.41
4:KK:215:ARG:HH12	4:KK:299:ALA:HB1	1.86	0.41
4:KK:226:ASN:HD22	4:KK:229:ARG:NH2	2.19	0.41
4:KK:263:PRO:O	4:KK:264:ARG:HB2	2.19	0.41
4:KK:327:ASP:OD1	4:KK:328:VAL:N	2.53	0.41
3:KL:40:SER:HB2	3:KL:43:GLN:HG2	2.01	0.41
22:L3:24:HIS:NE2	22:L3:25:PRO:O	2.54	0.41
22:L3:110:ALA:HB2	4:LK:402:ARG:CZ	2.50	0.41
22:L3:220:SER:HB2	4:VI:43:GLY:HA3	2.02	0.41
22:L3:235:LYS:O	22:L3:239:HIS:ND1	2.40	0.41
22:L4:80:ARG:HG2	22:L4:81:CYS:N	2.33	0.41
4:LA:11:GLN:N	39:LA:501:GTP:O1B	2.53	0.41
4:LE:319:TYR:HA	4:LE:374:ALA:O	2.20	0.41
4:LE:336:LYS:HG2	4:LE:351:PHE:CZ	2.55	0.41
3:LF:324:LYS:HG3	4:LG:221:ARG:NH1	2.35	0.41
3:LF:378:PHE:O	3:LF:381:ILE:HG22	2.20	0.41
4:LG:163:LYS:HA	4:LG:163:LYS:HD3	1.70	0.41
4:LG:211:ASP:HA	4:LG:214:ARG:CZ	2.50	0.41
4:LG:251:ASP:HB3	4:LG:254:GLU:OE1	2.21	0.41
4:LG:273:ALA:O	4:LG:275:VAL:N	2.52	0.41
4:LG:326:LYS:NZ	3:LH:208:TYR:O	2.53	0.41
3:LH:20:PHE:CZ	3:LH:24:ILE:HD11	2.56	0.41
3:LH:120:VAL:O	3:LH:124:ALA:N	2.43	0.41
3:LJ:69:GLU:CD	3:LJ:71:GLY:H	2.28	0.41
3:LJ:418:LEU:O	3:LJ:421:GLU:HB3	2.21	0.41
4:LK:31:GLN:OE1	4:LK:31:GLN:N	2.52	0.41
4:LK:390:ARG:HA	4:LK:393:HIS:NE2	2.36	0.41
3:LL:246:LEU:HD12	3:LL:352:ALA:HB1	2.03	0.41
3:LL:267:MET:O	3:LL:369:GLY:N	2.40	0.41
3:MB:21:TRP:HZ2	3:MB:63:ALA:HB2	1.85	0.41
3:MB:267:MET:HA	3:MB:268:PRO:HD3	1.86	0.41
3:MB:271:ALA:HB2	3:MB:365:ALA:H	1.85	0.41
4:MC:3:GLU:CD	4:MC:131:GLY:H	2.25	0.41
4:MC:104:ALA:O	4:MC:108:TYR:N	2.42	0.41
4:MC:154:MET:HE1	4:MC:197:HIS:HB2	2.01	0.41
4:MC:418:PHE:O	4:MC:422:ARG:NH2	2.54	0.41
3:MD:266:PHE:HD1	3:MD:370:ASN:HB2	1.85	0.41
3:MD:313:VAL:HG23	3:MD:349:VAL:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MD:324:LYS:HE3	3:MD:324:LYS:HB3	1.83	0.41
4:ME:168:GLU:HB2	4:ME:201:ALA:HA	2.02	0.41
4:ME:331:ALA:O	4:ME:335:ILE:HG12	2.20	0.41
3:MF:12:CYS:O	3:MF:16:ILE:HG12	2.21	0.41
3:MF:32:PRO:HA	3:MF:81:PHE:CE1	2.55	0.41
4:MG:145:THR:OG1	39:MG:501:GTP:O1B	2.36	0.41
4:MG:255:PHE:O	4:MG:259:LEU:HB2	2.20	0.41
3:MJ:8:GLN:HB3	3:MJ:65:LEU:HA	2.02	0.41
3:MJ:172:SER:OG	3:MJ:205:GLU:OE2	2.19	0.41
3:MJ:192:LEU:O	3:MJ:196:THR:HG22	2.20	0.41
3:MJ:238:THR:HG22	3:MJ:241:ARG:NH2	2.36	0.41
3:MJ:267:MET:HA	3:MJ:268:PRO:HD3	1.86	0.41
3:MJ:311:LEU:HB2	3:MJ:370:ASN:O	2.20	0.41
4:MK:154:MET:HE2	4:MK:194:THR:HG22	2.03	0.41
4:MK:286:LEU:HD11	4:MK:373:ARG:H	1.85	0.41
4:MM:356:ASN:OD1	4:MM:358:GLN:HB3	2.21	0.41
4:NA:45:GLY:HA2	4:NA:49:PHE:HE1	1.85	0.41
3:NB:46:ARG:HH12	4:NC:73:THR:HG23	1.85	0.41
3:ND:8:GLN:NE2	3:ND:17:GLY:HA3	2.36	0.41
3:ND:258:VAL:HB	4:NE:407:TRP:CZ2	2.55	0.41
4:NE:320:ARG:HG2	4:NE:358:GLN:O	2.21	0.41
3:NF:123:GLU:O	3:NF:126:SER:OG	2.34	0.41
3:NF:304:ASP:O	3:NF:307:HIS:ND1	2.33	0.41
4:NG:154:MET:HE3	4:NG:194:THR:HG22	2.03	0.41
4:NG:252:LEU:HA	4:NG:255:PHE:CD2	2.55	0.41
4:NI:90:GLU:HG2	4:NI:121:ARG:NH2	2.36	0.41
4:NI:308:ARG:NH2	4:NI:312:TYR:OH	2.46	0.41
4:NI:430:LYS:HG3	4:NI:431:ASP:N	2.35	0.41
3:NJ:6:HIS:HB3	3:NJ:21:TRP:HZ2	1.86	0.41
3:NJ:48:ASN:HA	3:NJ:51:TYR:O	2.20	0.41
3:NL:58:LYS:HE2	3:OL:281:TYR:CE1	2.54	0.41
28:O1:94:LYS:HA	28:O1:97:HIS:NE2	2.34	0.41
3:OB:256:ASN:O	3:OB:257:MET:HE2	2.20	0.41
4:OC:202:PHE:CD1	4:OC:268:PRO:HD2	2.56	0.41
4:OE:12:ALA:C	4:OE:15:GLN:HB3	2.46	0.41
4:OE:105:ARG:HG2	4:OE:109:THR:HG21	2.02	0.41
4:OE:167:LEU:HD13	4:OE:200:CYS:HB2	2.02	0.41
4:OE:263:PRO:HB2	4:OE:264:ARG:NH1	2.35	0.41
4:OG:79:ARG:O	4:OG:84:ARG:HG3	2.20	0.41
4:OG:262:TYR:CD1	4:OG:263:PRO:HD2	2.56	0.41
4:OI:390:ARG:O	4:OI:394:LYS:HG3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:OJ:130:LEU:HD13	3:OJ:133:PHE:HE1	1.86	0.41
3:OJ:193:VAL:HG22	3:OJ:262:ARG:NH2	2.35	0.41
4:OK:88:HIS:CE1	4:OK:121:ARG:HH22	2.37	0.41
4:OK:207:GLU:HB2	4:OK:304:LYS:NZ	2.36	0.41
3:OL:1:MET:HE1	3:OL:49:VAL:HA	2.02	0.41
3:OL:180:VAL:HG22	3:OL:183:TYR:HB2	2.01	0.41
27:P:41:THR:HA	27:P:44:TRP:CE3	2.56	0.41
29:P2:338:ILE:HG13	29:P2:594:ARG:HG2	2.02	0.41
4:PA:46:ASP:HA	4:PA:50:ASN:HB3	2.02	0.41
4:PA:163:LYS:HD3	4:PA:163:LYS:HA	1.81	0.41
4:PA:251:ASP:HB3	4:PA:254:GLU:OE1	2.19	0.41
3:PB:6:HIS:HB3	3:PB:21:TRP:HZ2	1.86	0.41
4:PC:27:GLU:HG2	4:PC:28:HIS:N	2.35	0.41
3:PD:173:PRO:HD3	3:PD:203:ASP:OD1	2.20	0.41
4:PE:132:LEU:O	4:PE:132:LEU:HD12	2.20	0.41
4:PE:286:LEU:HD11	4:PE:373:ARG:H	1.85	0.41
4:PE:405:VAL:O	4:PE:409:VAL:HG22	2.20	0.41
3:PF:12:CYS:HB3	39:PF:501:GTP:O4'	2.21	0.41
3:PF:302:ALA:HB1	3:PF:377:LEU:HD11	2.02	0.41
4:PG:132:LEU:HD12	4:PG:132:LEU:O	2.20	0.41
4:PG:192:HIS:CE1	4:PG:193:THR:HG23	2.55	0.41
3:PH:40:SER:HB2	3:PH:43:GLN:CD	2.45	0.41
4:PI:101:ASN:ND2	4:PI:182:VAL:HB	2.35	0.41
3:PJ:46:ARG:NH2	4:PK:73:THR:HA	2.35	0.41
3:PJ:189:VAL:HA	3:PJ:192:LEU:HB2	2.03	0.41
4:PM:187:SER:O	4:PM:190:THR:OG1	2.35	0.41
4:PM:196:GLU:HG2	4:PM:197:HIS:ND1	2.35	0.41
30:Q1:1340:TRP:O	30:Q1:1344:LEU:HB2	2.21	0.41
30:Q1:1341:ARG:HH22	30:Q1:1445:PRO:CB	2.26	0.41
30:Q1:1491:PHE:O	30:Q1:1495:GLU:HG2	2.20	0.41
30:Q2:1398:ASP:O	30:Q2:1401:GLN:HG3	2.21	0.41
4:QC:139:HIS:CD2	4:QC:170:ALA:HB2	2.56	0.41
4:QC:329:ASN:HA	4:QC:332:ILE:HG12	2.03	0.41
3:QD:152:ILE:O	3:QD:156:ARG:HG2	2.20	0.41
3:QD:217:LEU:HD11	3:QD:220:PRO:HB3	2.03	0.41
3:QD:246:LEU:HB3	3:QD:353:VAL:O	2.20	0.41
4:QE:116:ASP:OD1	4:QE:116:ASP:N	2.53	0.41
4:QE:393:HIS:HA	4:QE:396:ASP:CG	2.46	0.41
4:QG:22:GLU:O	4:QG:26:LEU:HD23	2.20	0.41
4:QG:392:ASP:O	4:QG:396:ASP:N	2.45	0.41
3:QH:28:HIS:O	3:QH:43:GLN:NE2	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QH:216:LYS:HB3	3:QH:276:ARG:CZ	2.51	0.41
4:QI:75:VAL:HG22	4:QI:79:ARG:HH21	1.84	0.41
4:QI:104:ALA:O	4:QI:108:TYR:N	2.51	0.41
4:QI:166:LYS:HB3	4:QI:168:GLU:OE2	2.21	0.41
4:QI:175:PRO:O	4:QI:390:ARG:HD3	2.21	0.41
4:QK:351:PHE:CE1	3:QL:175:VAL:HG22	2.56	0.41
4:QM:22:GLU:HG2	4:QM:83:TYR:CE2	2.54	0.41
4:QM:32:PRO:HB2	37:YU:123:ASN:ND2	2.36	0.41
4:QM:165:SER:C	4:QM:166:LYS:HD2	2.45	0.41
4:QM:214:ARG:HH11	4:QM:215:ARG:HG3	1.83	0.41
4:RC:21:TRP:CE3	4:RC:24:TYR:HD2	2.39	0.41
4:RC:263:PRO:O	4:RC:264:ARG:HB2	2.20	0.41
3:RD:183:TYR:CG	3:RD:388:MET:HE3	2.56	0.41
3:RD:292:GLN:O	3:RD:298:ASN:ND2	2.34	0.41
4:RE:163:LYS:HA	4:RE:163:LYS:HD3	1.79	0.41
4:RG:316:CYS:N	4:RG:378:LEU:O	2.54	0.41
3:RH:103:LYS:HD2	3:RH:104:GLY:N	2.35	0.41
3:RH:245:GLN:HE22	4:RI:15:GLN:NE2	2.19	0.41
3:RH:324:LYS:HE2	4:RI:222:PRO:HG2	2.02	0.41
4:RI:345:ASP:OD1	4:RI:345:ASP:N	2.54	0.41
4:RK:163:LYS:HA	4:RK:163:LYS:HD3	1.79	0.41
4:RK:386:GLU:OE1	4:RK:390:ARG:NH1	2.54	0.41
3:RL:266:PHE:HD1	3:RL:370:ASN:OD1	2.03	0.41
4:RM:280:LYS:HD2	4:RM:280:LYS:HA	1.84	0.41
4:RM:425:LEU:O	4:RM:428:LEU:N	2.50	0.41
32:S:368:HIS:O	32:S:372:ARG:HB2	2.20	0.41
3:SD:180:VAL:HG13	3:SD:184:ASN:OD1	2.21	0.41
4:SE:202:PHE:CE1	4:SE:268:PRO:HD2	2.56	0.41
4:SE:256:GLN:HE22	3:SF:397:TRP:HE1	1.67	0.41
4:SE:279:GLU:O	4:SE:282:TYR:HB3	2.20	0.41
4:SE:390:ARG:HA	4:SE:393:HIS:CD2	2.56	0.41
3:SF:182:PRO:HB2	3:SF:388:MET:HE1	2.01	0.41
3:SF:253:LEU:O	3:SF:257:MET:HB2	2.20	0.41
3:SF:346:PRO:HD2	4:SG:398:MET:HE2	2.03	0.41
4:SG:212:ILE:HG13	4:SG:215:ARG:HH21	1.85	0.41
3:SH:87:PRO:HA	3:SH:90:PHE:CD2	2.54	0.41
3:SH:247:ASN:HB3	3:SH:252:LYS:HG3	2.03	0.41
3:SJ:12:CYS:HB3	39:SJ:501:GTP:H5'	2.02	0.41
3:SJ:249:ASP:OD2	3:SJ:251:ARG:HB3	2.20	0.41
4:SK:145:THR:HG23	39:SK:501:GTP:O3B	2.20	0.41
4:SK:257:THR:HA	3:SL:397:TRP:CZ2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:SL:52:ASN:OD1	3:SL:62:ARG:NH1	2.54	0.41
3:SL:271:ALA:O	3:SL:273:LEU:HD22	2.21	0.41
4:SM:182:VAL:O	4:SM:185:TYR:HB2	2.21	0.41
3:TB:2:ARG:NH1	4:TC:96:LYS:HB3	2.35	0.41
4:TC:264:ARG:O	4:TC:266:HIS:ND1	2.54	0.41
4:TC:333:ALA:HA	4:TC:336:LYS:HD2	2.02	0.41
4:TE:306:ASP:HB3	4:TE:309:HIS:ND1	2.35	0.41
4:TE:389:ALA:HA	4:TE:392:ASP:OD2	2.21	0.41
3:TF:350:LYS:HE3	4:TG:181:VAL:H	1.85	0.41
3:TH:6:HIS:HB2	3:TH:134:GLN:NE2	2.36	0.41
3:TH:103:LYS:O	3:TH:108:GLU:N	2.34	0.41
3:TH:139:LEU:HD21	3:TH:170:VAL:HG22	2.02	0.41
3:TH:199:THR:N	3:TH:264:HIS:O	2.52	0.41
3:TH:269:GLY:N	3:TH:367:PHE:O	2.54	0.41
4:TI:202:PHE:CD1	4:TI:268:PRO:HD2	2.55	0.41
3:TJ:21:TRP:CZ2	3:TJ:63:ALA:HB2	2.55	0.41
3:TJ:193:VAL:HG21	3:TJ:418:LEU:HD11	2.02	0.41
3:TJ:328:GLU:OE1	3:TJ:329:GLN:NE2	2.52	0.41
4:TK:295:CYS:HB2	4:TK:377:MET:HG2	2.03	0.41
3:TL:410:GLU:HG2	3:TL:411:ALA:N	2.35	0.41
4:TM:254:GLU:OE1	4:TM:254:GLU:N	2.43	0.41
3:TN:210:ILE:HG13	3:TN:214:THR:HG22	2.02	0.41
4:UA:239:THR:OG1	4:UA:243:ARG:NH1	2.52	0.41
4:UA:393:HIS:O	4:UA:397:LEU:HD23	2.20	0.41
3:UB:60:VAL:HG23	3:UB:86:ARG:HH11	1.86	0.41
39:UB:501:GTP:O3G	39:UB:501:GTP:O3'	2.21	0.41
4:UC:166:LYS:O	4:UC:199:ASP:HB2	2.21	0.41
4:UC:229:ARG:NH1	4:UC:233:GLN:HB2	2.35	0.41
4:UE:119:LEU:HA	4:UE:122:ILE:HG22	2.01	0.41
4:UE:252:LEU:HD12	4:UE:253:THR:N	2.35	0.41
3:UF:249:ASP:O	3:UF:252:LYS:HB3	2.21	0.41
4:UG:251:ASP:HB3	4:UG:254:GLU:OE1	2.20	0.41
4:UG:399:TYR:OH	4:UG:415:GLU:HB2	2.20	0.41
3:UH:41:ASP:N	3:UH:41:ASP:OD1	2.53	0.41
3:UJ:173:PRO:HD3	3:UJ:203:ASP:OD1	2.20	0.41
3:UJ:290:THR:HG21	3:UJ:329:GLN:HB3	2.02	0.41
4:UK:50:ASN:OD1	4:UK:51:THR:N	2.53	0.41
4:UK:321:GLY:HA3	4:UK:372:GLN:O	2.21	0.41
33:V:537:GLU:HA	33:V:540:ARG:NE	2.36	0.41
3:VB:148:GLY:O	3:VB:152:ILE:HG12	2.21	0.41
3:VB:213:ARG:NH1	3:VB:297:LYS:HB3	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VB:286:VAL:HG21	3:VB:325:GLU:HG3	2.02	0.41
3:VB:398:TYR:O	3:VB:402:GLY:N	2.53	0.41
4:VC:269:LEU:HD11	4:VC:303:VAL:HB	2.00	0.41
3:VD:282:ARG:HE	3:VD:288:GLU:CD	2.29	0.41
4:VE:15:GLN:HG2	4:VE:16:ILE:N	2.34	0.41
4:VE:176:GLN:NE2	4:VE:177:VAL:HG23	2.36	0.41
4:VE:370:LYS:HG3	4:VE:370:LYS:O	2.20	0.41
3:VF:258:VAL:HB	4:VG:407:TRP:HZ2	1.86	0.41
3:VH:192:LEU:O	3:VH:196:THR:HG22	2.21	0.41
3:VH:269:GLY:N	3:VH:367:PHE:O	2.53	0.41
4:VK:16:ILE:HB	4:VK:231:ILE:HD11	2.03	0.41
3:VL:101:TRP:HB2	3:VL:184:ASN:ND2	2.35	0.41
4:WA:120:ASP:HA	4:WA:123:ARG:HG2	2.02	0.41
4:WA:386:GLU:O	4:WA:390:ARG:N	2.45	0.41
3:WB:155:ILE:HA	3:WB:158:GLU:HB2	2.02	0.41
4:WC:187:SER:O	4:WC:190:THR:OG1	2.29	0.41
4:WC:280:LYS:HD2	4:WC:280:LYS:HA	1.69	0.41
4:WC:399:TYR:OH	4:WC:415:GLU:HB2	2.20	0.41
4:WE:15:GLN:HG2	4:WE:16:ILE:N	2.36	0.41
4:WE:264:ARG:O	4:WE:266:HIS:ND1	2.51	0.41
4:WE:280:LYS:HZ1	4:WE:284:GLU:CD	2.28	0.41
4:WG:402:ARG:HB2	4:WG:405:VAL:HG11	2.02	0.41
3:WH:384:GLN:O	3:WH:388:MET:HG2	2.21	0.41
4:WI:212:ILE:HG13	4:WI:215:ARG:NH2	2.36	0.41
4:WI:286:LEU:HD11	4:WI:373:ARG:H	1.85	0.41
3:WJ:137:HIS:O	3:WJ:168:SER:HA	2.20	0.41
3:WJ:217:LEU:HD11	3:WJ:220:PRO:HB3	2.03	0.41
3:WJ:250:LEU:HD13	3:WJ:253:LEU:HD12	2.02	0.41
4:WK:172:TYR:HD1	4:WK:203:MET:HG2	1.85	0.41
34:XA:28:LYS:O	34:XA:57:THR:HA	2.20	0.41
34:XB:74:PRO:HD2	34:XB:169:ASP:HA	2.02	0.41
34:XE:1:MET:HA	34:XE:67:LYS:HE3	2.03	0.41
37:YC:89:GLY:O	37:YC:94:ASN:OD1	2.38	0.41
37:YC:90:THR:O	37:YC:93:THR:N	2.53	0.41
37:YD:103:LEU:HD23	37:YD:103:LEU:HA	1.91	0.41
37:YE:141:ILE:O	37:YE:145:LEU:HG	2.20	0.41
37:YN:23:PHE:O	37:YN:27:ALA:N	2.46	0.41
37:YN:124:HIS:ND1	37:YN:124:HIS:O	2.54	0.41
37:YS:121:VAL:HG12	37:YS:138:VAL:HB	2.03	0.41
37:YU:93:THR:HB	37:YU:151:TRP:CE2	2.55	0.41
36:Z:226:ARG:O	36:Z:230:GLU:N	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:Z:272:ASN:O	36:Z:276:ILE:HG12	2.21	0.41
1:A:22:PHE:O	1:A:26:LEU:HG	2.21	0.41
2:A1:254:ARG:O	2:A1:258:GLU:OE1	2.38	0.41
2:A1:372:LEU:HA	2:A1:375:GLU:OE2	2.21	0.41
2:A2:184:ILE:HA	2:A2:187:VAL:HB	2.02	0.41
2:A2:215:GLU:OE1	2:A2:215:GLU:N	2.38	0.41
2:A2:363:LYS:NZ	14:G5:183:ILE:HG13	2.36	0.41
2:A3:23:GLN:OE1	2:A3:26:ARG:NH2	2.54	0.41
2:A3:37:LEU:HA	2:A3:40:GLU:OE2	2.20	0.41
2:A3:142:ILE:O	2:A3:146:VAL:HG13	2.21	0.41
2:A3:221:SER:O	2:A3:225:VAL:HG23	2.21	0.41
2:A3:282:LEU:HD13	2:A3:372:LEU:HD22	2.02	0.41
2:A3:286:MET:SD	7:C4:480:TYR:OH	2.64	0.41
2:A4:68:GLU:OE1	5:B1:270:ARG:NH2	2.54	0.41
4:AC:90:GLU:HG2	4:AC:121:ARG:NH2	2.35	0.41
3:AD:150:LEU:C	3:AD:154:LYS:HZ3	2.28	0.41
4:AE:66:VAL:HG12	4:AE:68:VAL:HG13	2.03	0.41
4:AE:141:PHE:CD2	4:AE:172:TYR:HA	2.56	0.41
4:AE:320:ARG:HH21	4:AE:358:GLN:HG3	1.86	0.41
4:AE:368:LEU:HD23	4:AE:368:LEU:H	1.84	0.41
3:AF:12:CYS:CB	39:AF:501:GTP:H5'	2.51	0.41
3:AF:46:ARG:HH12	4:AG:73:THR:HG23	1.85	0.41
3:AF:324:LYS:HD3	4:AG:210:TYR:CE1	2.56	0.41
3:AH:199:THR:HB	3:AH:265:PHE:HD1	1.85	0.41
4:AI:254:GLU:OE1	4:AI:254:GLU:N	2.43	0.41
3:AJ:3:GLU:OE2	3:AJ:129:CYS:N	2.54	0.41
5:B2:339:ILE:HG23	5:B2:343:HIS:HE1	1.86	0.41
5:B3:8:PRO:HD3	8:D4:326:LEU:HD21	2.02	0.41
5:B4:106:LYS:HZ3	5:B4:148:LYS:CA	2.27	0.41
5:B5:42:ALA:O	5:B5:46:ARG:HG3	2.20	0.41
5:B6:32:ARG:NH2	5:B7:282:GLN:OE1	2.53	0.41
5:B6:234:LYS:O	5:B6:238:GLU:OE1	2.38	0.41
5:B7:63:ARG:O	5:B7:66:GLU:HG3	2.20	0.41
5:B7:230:GLU:HA	5:B7:233:MET:HG3	2.03	0.41
5:B8:304:LEU:HD23	5:B8:304:LEU:HA	1.95	0.41
3:BB:320:ARG:HA	3:BB:320:ARG:NH1	2.35	0.41
3:BD:3:GLU:HG2	3:BD:130:LEU:HD23	2.03	0.41
3:BF:249:ASP:O	3:BF:252:LYS:HB3	2.21	0.41
3:BF:273:LEU:H	3:BF:292:GLN:NE2	2.17	0.41
3:BH:207:LEU:HD12	3:BH:228:LEU:HD12	2.03	0.41
3:BH:389:PHE:HZ	3:BH:405:GLU:HB2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BI:55:GLU:HA	4:BI:60:LYS:O	2.20	0.41
4:BI:139:HIS:CD2	4:BI:170:ALA:HB2	2.55	0.41
4:BI:263:PRO:HD3	3:BJ:396:HIS:CD2	2.56	0.41
4:BI:279:GLU:O	4:BI:282:TYR:HB3	2.21	0.41
4:BK:11:GLN:HA	4:BK:14:VAL:HG13	2.03	0.41
4:BK:174:ALA:HB3	4:BK:177:VAL:O	2.20	0.41
4:BM:331:ALA:O	4:BM:335:ILE:HG12	2.21	0.41
7:C1:289:ARG:NH2	7:C2:421:VAL:HB	2.35	0.41
7:C3:166:GLU:OE1	7:C3:315:ARG:NH2	2.54	0.41
7:C3:177:ILE:HD11	7:C3:322:ARG:HH11	1.85	0.41
7:C4:361:ILE:HD12	7:C4:462:LYS:NZ	2.36	0.41
7:C6:326:GLU:HA	7:C6:329:LEU:HB2	2.01	0.41
7:C7:156:TRP:O	7:C7:160:ILE:HG12	2.21	0.41
7:C7:394:LYS:HE3	7:C7:394:LYS:HB2	1.91	0.41
4:CC:70:LEU:HA	4:CC:95:GLY:HA3	2.02	0.41
4:CC:206:ASN:OD1	4:CC:206:ASN:N	2.53	0.41
4:CC:255:PHE:O	4:CC:259:LEU:HB2	2.20	0.41
3:CD:233:MET:O	3:CD:236:VAL:HG12	2.20	0.41
4:CE:66:VAL:HG12	4:CE:68:VAL:HG13	2.03	0.41
4:CE:80:THR:HG23	15:H2:218:ILE:HD13	2.03	0.41
4:CE:324:VAL:HG21	3:CF:219:THR:HG22	2.03	0.41
3:CF:3:GLU:HB2	3:CF:62:ARG:NH2	2.35	0.41
4:CG:285:GLN:NE2	4:CG:286:LEU:O	2.54	0.41
4:CI:265:ILE:HD12	4:CI:432:TYR:CE1	2.55	0.41
3:CJ:390:ARG:HA	3:CJ:390:ARG:HD2	1.81	0.41
3:CL:182:PRO:HB3	3:CL:381:ILE:HD11	2.02	0.41
7:Cd:150:VAL:HG12	7:Cd:268:ASP:OD2	2.21	0.41
8:D2:76:ARG:O	8:D2:80:GLU:OE1	2.39	0.41
8:D3:293:LEU:HD11	8:D3:443:LEU:HD13	2.03	0.41
8:D4:73:TYR:HA	8:D4:76:ARG:NH1	2.35	0.41
8:D4:76:ARG:O	8:D4:80:GLU:OE1	2.39	0.41
8:D4:372:ASN:OD1	8:D4:372:ASN:N	2.53	0.41
8:D5:308:CYS:HA	8:D5:311:LEU:HD12	2.02	0.41
8:D5:412:LEU:O	8:D5:416:ILE:HG12	2.20	0.41
8:D7:189:LEU:HA	8:D7:192:ARG:HE	1.85	0.41
8:D8:376:ARG:O	8:D8:380:GLU:OE1	2.38	0.41
8:D9:116:GLU:O	8:D9:119:ARG:HG3	2.20	0.41
8:D9:218:LYS:NZ	8:D9:257:TRP:HE1	2.19	0.41
8:D9:426:ASP:O	8:D9:431:MET:HE1	2.21	0.41
8:D9:430:CYS:HB3	8:D9:434:ARG:NH2	2.36	0.41
4:DA:56:THR:HB	4:EA:285:GLN:HG3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DA:145:THR:OG1	39:DA:501:GTP:O1B	2.36	0.41
4:DA:311:LYS:N	4:DA:382:THR:OG1	2.49	0.41
4:DC:2:ARG:NE	4:DC:242:LEU:HG	2.36	0.41
4:DC:53:PHE:O	4:DC:64:ARG:NH1	2.53	0.41
3:DD:299:MET:SD	3:DD:301:ALA:N	2.93	0.41
4:DE:234:ILE:O	4:DE:237:SER:OG	2.32	0.41
4:DE:279:GLU:OE2	4:DE:280:LYS:HE2	2.21	0.41
3:DF:324:LYS:HE2	4:DG:222:PRO:CD	2.50	0.41
3:DH:58:LYS:HZ1	3:EH:280:GLN:HB2	1.86	0.41
4:DI:160:ASP:OD1	4:DI:161:TYR:N	2.54	0.41
3:DJ:350:LYS:HE3	4:DK:181:VAL:H	1.85	0.41
4:DK:89:PRO:HB2	4:DK:90:GLU:OE1	2.20	0.41
3:DL:101:TRP:HB2	3:DL:184:ASN:ND2	2.31	0.41
3:DL:381:ILE:HD12	3:DL:381:ILE:HA	1.89	0.41
9:E:648:TRP:HD1	9:E:650:ASP:H	1.64	0.41
10:E2:172:LEU:H	10:E2:175:ARG:NH1	2.18	0.41
10:E3:147:LYS:NZ	10:E3:150:VAL:HG22	2.36	0.41
4:EA:419:SER:O	4:EA:422:ARG:HG3	2.20	0.41
3:EB:222:TYR:O	3:EB:225:LEU:HB2	2.21	0.41
3:EB:344:TRP:HE3	4:EC:401:LYS:HD2	1.86	0.41
4:EC:221:ARG:N	4:EC:222:PRO:HD2	2.36	0.41
3:ED:1:MET:HE3	3:ED:48:ASN:HB2	2.02	0.41
3:ED:12:CYS:HA	3:ED:15:GLN:OE1	2.20	0.41
4:EE:234:ILE:O	4:EE:238:ILE:HG23	2.21	0.41
3:EF:87:PRO:HA	3:EF:90:PHE:CD2	2.55	0.41
4:EG:85:GLN:HG2	4:EG:86:LEU:HD22	2.02	0.41
4:EG:149:PHE:O	4:EG:152:LEU:HG	2.20	0.41
4:EG:235:VAL:HA	4:EG:238:ILE:HG12	2.02	0.41
4:EG:252:LEU:HA	4:EG:255:PHE:CD2	2.55	0.41
4:EG:317:MET:HB2	4:EG:375:VAL:HG21	2.03	0.41
3:EH:189:VAL:HA	3:EH:192:LEU:HD12	2.02	0.41
4:EI:103:TYR:CD2	4:EI:148:GLY:HA2	2.55	0.41
4:EI:136:LEU:HD23	4:EI:138:PHE:HZ	1.86	0.41
4:EK:47:ASP:O	4:EK:49:PHE:N	2.54	0.41
4:EK:90:GLU:HG2	4:EK:121:ARG:NH2	2.35	0.41
4:EK:272:TYR:HD2	4:EK:275:VAL:HG13	1.85	0.41
3:EL:4:ILE:HB	3:EL:50:TYR:CE1	2.56	0.41
3:EL:12:CYS:SG	39:EL:501:GTP:H5'	2.59	0.41
3:EL:211:CYS:O	3:EL:216:LYS:N	2.42	0.41
3:EL:249:ASP:O	3:EL:253:LEU:HG	2.20	0.41
11:F1:394:THR:HG21	11:F2:276:SER:OG	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:F2:210:ASN:H	11:F2:346:ARG:HH21	1.69	0.41
11:F3:208:HIS:CB	11:F4:89:ARG:HG3	2.50	0.41
11:F3:306:HIS:HB3	11:F3:310:MET:HE1	2.03	0.41
11:F7:361:LEU:HA	11:F7:361:LEU:HD23	1.84	0.41
11:F8:180:ALA:O	11:F8:184:VAL:HG23	2.20	0.41
3:FB:111:GLU:OE1	3:FB:111:GLU:N	2.43	0.41
3:FB:273:LEU:H	3:FB:292:GLN:NE2	2.17	0.41
4:FE:3:GLU:CD	4:FE:131:GLY:H	2.28	0.41
4:FE:16:ILE:HG13	4:FE:17:GLY:N	2.33	0.41
4:FE:141:PHE:HB2	4:FE:173:PRO:HD3	2.03	0.41
4:FE:318:LEU:H	4:FE:375:VAL:HG23	1.85	0.41
3:FF:173:PRO:HB2	3:FF:174:LYS:NZ	2.36	0.41
3:FF:180:VAL:HG22	3:FF:183:TYR:HB2	2.03	0.41
3:FF:267:MET:HA	3:FF:268:PRO:HD3	1.90	0.41
4:FG:16:ILE:HG22	4:FG:228:ASN:OD1	2.21	0.41
4:FG:91:GLN:HB3	4:FG:121:ARG:HH21	1.85	0.41
4:FG:260:VAL:O	3:FH:397:TRP:HH2	2.03	0.41
4:FG:280:LYS:HA	4:FG:280:LYS:HD2	1.73	0.41
4:FG:346:TRP:CH2	4:FG:435:VAL:HA	2.56	0.41
3:FH:46:ARG:O	3:FH:49:VAL:HG12	2.20	0.41
3:FH:111:GLU:OE1	3:FH:111:GLU:N	2.45	0.41
3:FH:374:ILE:HG22	3:FH:378:PHE:CE2	2.56	0.41
4:FI:154:MET:HA	4:FI:157:LEU:HG	2.01	0.41
4:FI:174:ALA:HB3	4:FI:177:VAL:O	2.20	0.41
3:FJ:406:MET:SD	3:FJ:407:GLU:N	2.93	0.41
11:Fc:162:ARG:CZ	11:Fc:311:ARG:HH12	2.34	0.41
11:Fg:249:SER:O	11:Fg:252:ARG:HG2	2.21	0.41
11:Fg:422:THR:O	11:Fg:426:THR:HG23	2.21	0.41
11:Fi:171:ASP:HA	11:Fi:174:LYS:HG2	2.03	0.41
11:Fj:175:ARG:O	11:Fj:178:GLU:HG3	2.20	0.41
11:Fj:201:ARG:HB3	11:Fj:205:ASP:CG	2.46	0.41
11:Fk:205:ASP:N	11:Fk:205:ASP:OD1	2.53	0.41
11:Fk:304:ILE:HG13	11:Fk:308:GLN:NE2	2.29	0.41
11:Fl:355:ASN:O	11:Fl:358:GLN:HG2	2.20	0.41
11:Fl:444:LEU:O	11:Fl:447:THR:OG1	2.29	0.41
11:Fm:237:ASP:O	11:Fm:241:ARG:HG3	2.20	0.41
12:G:76:ASP:O	12:G:80:GLN:HG3	2.20	0.41
12:G:90:PHE:O	12:G:94:THR:HG23	2.21	0.41
12:G:167:LYS:O	12:G:171:ILE:HG12	2.21	0.41
12:G:194:LYS:HE3	12:G:194:LYS:HB3	1.85	0.41
13:G1:336:THR:HA	13:G1:341:THR:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:G2:267:TYR:HB2	13:G2:272:THR:OG1	2.20	0.41
13:G3:422:TYR:HD1	13:G3:507:ASP:O	2.04	0.41
14:G4:616:LEU:O	14:G4:620:ILE:HG22	2.21	0.41
14:G5:13:ARG:HD2	14:G5:15:ILE:HG12	2.03	0.41
14:G5:532:TYR:HD2	14:G5:533:MET:HE2	1.85	0.41
4:GA:386:GLU:O	4:GA:390:ARG:N	2.43	0.41
3:GB:6:HIS:HB3	3:GB:21:TRP:HZ2	1.85	0.41
3:GB:19:LYS:O	3:GB:23:VAL:HG23	2.21	0.41
3:GB:188:SER:O	3:GB:192:LEU:HG	2.20	0.41
3:GB:324:LYS:H	3:GB:324:LYS:HG2	1.74	0.41
4:GC:246:GLY:HA3	4:GC:355:ILE:O	2.21	0.41
4:GE:154:MET:HA	4:GE:157:LEU:HG	2.01	0.41
4:GE:394:LYS:O	4:GE:398:MET:HG2	2.20	0.41
3:GF:362:LYS:HG3	3:GF:363:MET:N	2.35	0.41
4:GG:103:TYR:CD2	4:GG:148:GLY:HA2	2.56	0.41
4:GG:279:GLU:O	4:GG:282:TYR:HB3	2.21	0.41
3:GH:3:GLU:OE2	3:GH:129:CYS:N	2.54	0.41
3:GH:99:ASN:OD1	39:GH:501:GTP:PG	2.77	0.41
3:GH:276:ARG:O	3:GH:279:GLN:NE2	2.51	0.41
3:GH:419:VAL:O	3:GH:423:GLN:NE2	2.53	0.41
4:GI:140:SER:HA	4:GI:170:ALA:HB1	2.03	0.41
3:GJ:217:LEU:O	3:GJ:219:THR:N	2.52	0.41
4:GK:192:HIS:CE1	4:GK:193:THR:HG23	2.55	0.41
3:GL:77:ARG:O	3:GL:82:GLY:HA3	2.21	0.41
15:H2:282:ILE:CD1	15:H2:283:PRO:HD2	2.51	0.41
15:H4:33:ASN:OD1	15:H4:33:ASN:N	2.52	0.41
4:HA:75:VAL:HA	4:HA:78:VAL:HG12	2.02	0.41
4:HA:167:LEU:HD13	4:HA:200:CYS:HB2	2.01	0.41
4:HA:263:PRO:HB2	4:HA:264:ARG:NH1	2.36	0.41
3:HB:31:ASP:OD2	3:HB:33:THR:OG1	2.38	0.41
3:HD:272:PRO:HA	3:HD:292:GLN:OE1	2.20	0.41
4:HE:40:LYS:HE2	4:HE:40:LYS:HB2	1.95	0.41
3:HF:131:GLN:O	3:HF:163:ILE:HD12	2.20	0.41
3:HF:156:ARG:CZ	3:HF:164:MET:HE3	2.51	0.41
4:HG:19:ALA:O	4:HG:23:LEU:HG	2.21	0.41
4:HI:50:ASN:O	4:HI:64:ARG:NH1	2.53	0.41
4:HI:263:PRO:O	4:HI:264:ARG:HB2	2.20	0.41
3:HJ:150:LEU:O	3:HJ:154:LYS:HG2	2.21	0.41
3:HJ:214:THR:HG21	3:HJ:273:LEU:HB3	2.02	0.41
3:HJ:324:LYS:HB3	3:HJ:324:LYS:HE3	1.86	0.41
4:HK:240:ALA:O	4:HK:244:PHE:N	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HK:332:ILE:HG13	4:HK:336:LYS:HE3	2.02	0.41
4:IA:49:PHE:O	4:IA:52:PHE:N	2.52	0.41
4:IA:385:ALA:HB2	4:IA:432:TYR:HD2	1.86	0.41
3:IB:21:TRP:CZ3	3:IB:51:TYR:HE1	2.38	0.41
4:IC:420:GLU:HA	4:IC:423:GLU:OE2	2.20	0.41
3:ID:269:GLY:O	3:ID:367:PHE:N	2.44	0.41
3:ID:310:TYR:CD1	3:ID:371:SER:HB2	2.56	0.41
4:IE:88:HIS:CD2	4:IE:90:GLU:HG2	2.56	0.41
4:IE:161:TYR:O	4:IE:166:LYS:NZ	2.50	0.41
3:IF:384:GLN:O	3:IF:388:MET:HG2	2.20	0.41
4:IG:88:HIS:NE2	4:IG:90:GLU:OE2	2.53	0.41
3:IH:36:TYR:CE2	3:IH:38:GLY:HA2	2.55	0.41
3:IH:259:PRO:HA	4:II:404:PHE:CD1	2.56	0.41
4:II:334:THR:O	4:II:337:THR:OG1	2.32	0.41
3:IJ:101:TRP:CZ3	3:IJ:106:TYR:HE1	2.39	0.41
3:IJ:132:GLY:HA3	3:IJ:163:ILE:H	1.85	0.41
4:IK:132:LEU:HD23	4:IK:132:LEU:O	2.20	0.41
3:IL:69:GLU:O	3:IL:69:GLU:HG2	2.21	0.41
3:IL:246:LEU:HD12	3:IL:352:ALA:HB1	2.03	0.41
3:IL:249:ASP:O	3:IL:253:LEU:HG	2.19	0.41
4:IM:273:ALA:O	4:IM:275:VAL:N	2.46	0.41
18:J:94:ARG:HH21	18:J:139:PRO:HB3	1.85	0.41
18:J:120:ASN:HD22	18:J:127:LEU:HD12	1.85	0.41
19:J2:149:TRP:O	19:J2:152:LEU:N	2.54	0.41
4:JC:1:MET:HE3	4:JC:50:ASN:ND2	2.35	0.41
4:JC:98:ASP:O	4:JC:105:ARG:NH2	2.30	0.41
4:JC:332:ILE:O	4:JC:336:LYS:HG3	2.21	0.41
4:JE:175:PRO:O	4:JE:390:ARG:HD3	2.20	0.41
4:JG:419:SER:O	4:JG:422:ARG:HG2	2.20	0.41
3:JH:87:PRO:HA	3:JH:90:PHE:CD2	2.55	0.41
4:JI:10:GLY:HA2	4:JI:145:THR:OG1	2.21	0.41
3:JJ:118:ASP:OD1	3:JJ:121:ARG:NH1	2.54	0.41
4:JK:256:GLN:O	4:JK:260:VAL:HG12	2.21	0.41
4:JK:279:GLU:HA	4:JK:282:TYR:HD2	1.85	0.41
3:JL:32:PRO:HA	3:JL:81:PHE:CE1	2.56	0.41
20:K:72:ILE:HD12	20:K:268:MET:O	2.21	0.41
21:K1:393:LEU:HD11	24:M1:53:PRO:HD3	2.02	0.41
21:K2:411:GLU:HG3	21:K3:118:ARG:HE	1.85	0.41
21:K3:150:GLN:HG2	21:K3:151:LEU:N	2.35	0.41
21:K4:267:ILE:HG23	21:K4:301:LYS:HA	2.03	0.41
4:KA:206:ASN:OD1	4:KA:206:ASN:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:KA:324:VAL:HB	4:KA:326:LYS:HE2	2.02	0.41
3:KB:137:HIS:O	3:KB:168:SER:HA	2.20	0.41
3:KB:163:ILE:HD13	3:KB:250:LEU:HB2	2.01	0.41
3:KB:249:ASP:O	3:KB:253:LEU:HG	2.21	0.41
4:KC:263:PRO:O	4:KC:264:ARG:HB2	2.21	0.41
4:KC:431:ASP:O	4:KC:435:VAL:HG22	2.20	0.41
3:KD:139:LEU:N	3:KD:168:SER:OG	2.53	0.41
3:KD:249:ASP:OD2	3:KD:251:ARG:HB3	2.21	0.41
4:KE:88:HIS:HE1	4:KE:90:GLU:HG2	1.85	0.41
4:KE:137:ILE:HG22	4:KE:139:HIS:ND1	2.36	0.41
3:KF:131:GLN:HB3	3:KF:163:ILE:HD12	2.01	0.41
4:KG:90:GLU:HG2	4:KG:121:ARG:NH2	2.36	0.41
4:KG:115:VAL:HA	4:KG:118:VAL:HG22	2.02	0.41
4:KG:387:ALA:O	4:KG:391:LEU:HG	2.21	0.41
3:KH:204:ASN:OD1	3:KH:204:ASN:N	2.54	0.41
3:KH:256:ASN:HB3	3:KH:350:LYS:HG3	2.03	0.41
3:KH:324:LYS:HE2	4:KI:222:PRO:CD	2.50	0.41
3:KJ:187:LEU:O	3:KJ:191:GLN:NE2	2.54	0.41
4:KK:260:VAL:HG23	4:KK:265:ILE:O	2.20	0.41
3:KL:233:MET:H	3:KL:233:MET:HG2	1.75	0.41
3:KL:298:ASN:O	3:KL:300:MET:HE3	2.19	0.41
22:L1:215:SER:HB3	22:L1:216:VAL:H	1.75	0.41
22:L2:226:ARG:HA	22:L2:229:LYS:HE2	2.02	0.41
22:L3:49:MET:HE3	3:MH:337:ASN:HB3	2.02	0.41
22:L3:190:ASP:O	22:L3:194:GLU:HG2	2.20	0.41
22:L3:232:LYS:O	22:L3:235:LYS:HG3	2.21	0.41
22:L4:48:THR:C	3:LL:121:ARG:HH21	2.28	0.41
4:LA:229:ARG:NH1	4:LA:233:GLN:HB2	2.36	0.41
4:LC:31:GLN:N	4:LC:31:GLN:OE1	2.54	0.41
4:LC:78:VAL:HG22	4:LC:79:ARG:NH2	2.35	0.41
3:LD:1:MET:HE1	3:LD:49:VAL:HA	2.01	0.41
3:LD:404:ASP:N	3:LD:404:ASP:OD1	2.53	0.41
3:LF:2:ARG:HB3	3:LF:131:GLN:NE2	2.36	0.41
3:LF:362:LYS:HB2	27:R:362:SER:OG	2.21	0.41
3:LH:77:ARG:HA	3:LH:77:ARG:HD2	1.87	0.41
3:LH:292:GLN:HA	3:LH:295:ASP:OD2	2.21	0.41
3:LH:407:GLU:HA	3:LH:410:GLU:OE2	2.21	0.41
4:LI:30:ILE:HA	4:LI:36:MET:HE1	2.03	0.41
3:LJ:299:MET:HE1	3:LJ:305:PRO:HD2	2.02	0.41
3:LJ:378:PHE:CE1	3:LJ:419:VAL:HG13	2.45	0.41
24:M1:41:HIS:ND1	24:M1:100:GLU:O	2.47	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:M2:56:TYR:CD2	24:M2:58:MET:HB2	2.55	0.41
4:MC:186:ASN:OD1	4:MC:187:SER:N	2.54	0.41
3:MD:12:CYS:O	3:MD:16:ILE:HG13	2.20	0.41
3:MF:357:PRO:O	3:MF:359:ARG:NH1	2.48	0.41
4:MG:311:LYS:N	4:MG:382:THR:OG1	2.44	0.41
3:MH:5:VAL:HB	3:MH:133:PHE:CE1	2.56	0.41
3:MH:72:THR:O	3:MH:75:SER:OG	2.24	0.41
3:MH:378:PHE:CD1	3:MH:419:VAL:HG22	2.55	0.41
4:MI:145:THR:HG23	39:MI:501:GTP:O3B	2.20	0.41
4:MI:331:ALA:O	4:MI:334:THR:OG1	2.25	0.41
4:MK:168:GLU:HB2	4:MK:201:ALA:HA	2.02	0.41
4:MK:216:ASN:ND2	4:MK:275:VAL:HG23	2.35	0.41
4:MK:370:LYS:HD2	27:P:98:GLN:OE1	2.20	0.41
3:ML:266:PHE:CD1	3:ML:370:ASN:HB2	2.56	0.41
4:MM:99:ALA:HB3	4:MM:144:GLY:O	2.21	0.41
4:MM:246:GLY:HA3	4:MM:355:ILE:O	2.21	0.41
4:NA:135:PHE:HD2	4:NA:166:LYS:HG3	1.85	0.41
3:NB:324:LYS:HE2	4:NC:222:PRO:CD	2.50	0.41
4:NC:263:PRO:HD3	3:ND:396:HIS:CD2	2.56	0.41
4:NC:399:TYR:OH	4:NC:415:GLU:HG3	2.20	0.41
3:ND:137:HIS:O	3:ND:168:SER:HA	2.21	0.41
3:ND:145:SER:HB2	3:ND:188:SER:HB3	2.03	0.41
3:ND:392:LYS:HD2	3:ND:392:LYS:O	2.20	0.41
4:NE:4:CYS:SG	4:NE:134:GLY:N	2.94	0.41
4:NE:280:LYS:HA	4:NE:283:HIS:HE1	1.84	0.41
3:NF:41:ASP:N	3:NF:41:ASP:OD1	2.54	0.41
4:NG:390:ARG:HA	4:NG:393:HIS:CD2	2.56	0.41
4:NI:9:VAL:HA	4:NI:68:VAL:HG23	2.01	0.41
3:NJ:268:PRO:HD2	3:NJ:301:ALA:HB2	2.01	0.41
3:NJ:390:ARG:NH1	3:NJ:391:ARG:HE	2.18	0.41
4:NK:66:VAL:HG12	4:NK:68:VAL:HG13	2.02	0.41
4:NK:135:PHE:CE2	4:NK:166:LYS:HE3	2.55	0.41
3:NL:320:ARG:NH1	3:NL:355:ASP:HB2	2.36	0.41
4:OA:10:GLY:O	4:OA:14:VAL:HG13	2.20	0.41
4:OC:22:GLU:O	4:OC:26:LEU:HD23	2.20	0.41
4:OC:103:TYR:HB2	4:OC:186:ASN:HB2	2.01	0.41
4:OC:118:VAL:HA	4:OC:121:ARG:HG2	2.02	0.41
3:OD:256:ASN:C	3:OD:257:MET:HE2	2.46	0.41
4:OE:8:HIS:CD2	4:OE:138:PHE:HD2	2.39	0.41
3:OF:4:ILE:HB	3:OF:50:TYR:CD1	2.56	0.41
3:OF:190:HIS:HD2	3:OF:411:ALA:HA	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:OF:372:THR:HG21	3:OF:426:GLN:HB2	2.03	0.41
4:OG:121:ARG:O	4:OG:124:LYS:HG2	2.21	0.41
3:OH:130:LEU:HD21	3:OH:133:PHE:CE1	2.56	0.41
3:OJ:31:ASP:OD2	3:OJ:35:THR:OG1	2.33	0.41
3:OJ:101:TRP:CE3	3:OJ:187:LEU:HD13	2.55	0.41
4:OK:36:MET:HE3	4:OK:61:HIS:CE1	2.55	0.41
4:OK:165:SER:C	4:OK:166:LYS:HD2	2.46	0.41
3:OL:77:ARG:HD3	3:OL:90:PHE:CE2	2.56	0.41
29:P1:199:CYS:HB3	29:P1:232:MET:HE2	2.02	0.41
29:P2:346:GLU:HG3	29:P2:362:MET:HE1	2.02	0.41
4:PA:2:ARG:NE	4:PA:242:LEU:HD13	2.35	0.41
4:PA:35:GLN:HG2	4:PA:59:GLY:O	2.21	0.41
4:PA:395:PHE:CE1	4:PA:422:ARG:HD3	2.55	0.41
4:PE:359:PRO:HA	4:PE:360:PRO:HD3	1.96	0.41
4:PE:389:ALA:HA	4:PE:392:ASP:OD2	2.20	0.41
3:PF:150:LEU:C	3:PF:154:LYS:HZ3	2.28	0.41
4:PG:72:PRO:HA	4:PG:75:VAL:HG12	2.02	0.41
4:PG:174:ALA:HB3	4:PG:177:VAL:O	2.21	0.41
4:PG:334:THR:O	4:PG:337:THR:OG1	2.32	0.41
3:PH:49:VAL:C	3:PH:62:ARG:HH21	2.28	0.41
3:PJ:394:PHE:HA	3:PJ:397:TRP:HZ3	1.84	0.41
4:PK:36:MET:HG3	4:PK:41:THR:OG1	2.20	0.41
3:PL:12:CYS:HB3	39:PL:501:GTP:H5'	2.03	0.41
3:PL:183:TYR:CZ	3:PL:388:MET:HG3	2.56	0.41
4:PM:185:TYR:CE2	4:PM:398:MET:HE1	2.56	0.41
4:PM:359:PRO:HA	4:PM:360:PRO:HD3	1.93	0.41
27:Q:16:ALA:O	27:Q:19:ARG:NE	2.54	0.41
3:QB:152:ILE:HA	3:QB:155:ILE:HG12	2.03	0.41
3:QB:392:LYS:HD2	3:QB:392:LYS:O	2.21	0.41
4:QC:285:GLN:NE2	4:QC:286:LEU:O	2.54	0.41
3:QD:52:ASN:CG	3:QD:62:ARG:HD3	2.46	0.41
3:QD:137:HIS:O	3:QD:168:SER:HA	2.21	0.41
4:QE:220:GLU:OE1	4:QE:220:GLU:N	2.42	0.41
4:QE:263:PRO:HD3	3:QF:396:HIS:CD2	2.55	0.41
3:QF:6:HIS:HD1	3:QF:63:ALA:HB1	1.86	0.41
3:QF:12:CYS:HA	3:QF:15:GLN:OE1	2.20	0.41
3:QF:318:ARG:C	3:QF:321:MET:HE1	2.46	0.41
4:QG:166:LYS:HB3	4:QG:168:GLU:OE2	2.21	0.41
4:QG:174:ALA:HB1	4:QG:207:GLU:OE2	2.20	0.41
3:QH:414:ASN:O	3:QH:418:LEU:HG	2.21	0.41
3:QJ:6:HIS:HB3	3:QJ:21:TRP:HZ2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:QK:192:HIS:CE1	4:QK:193:THR:HG23	2.56	0.41
4:QK:319:TYR:CD2	4:QK:323:VAL:HG11	2.53	0.41
31:R2:276:ARG:HG3	31:R2:276:ARG:O	2.21	0.41
3:RB:215:LEU:O	3:RB:217:LEU:N	2.53	0.41
4:RC:103:TYR:HB2	4:RC:186:ASN:CB	2.50	0.41
4:RC:422:ARG:HD2	4:RC:422:ARG:HA	1.82	0.41
4:RE:234:ILE:O	4:RE:237:SER:OG	2.36	0.41
3:RF:260:PHE:CD2	3:RF:425:TYR:HE2	2.38	0.41
3:RF:305:PRO:HA	3:RF:373:ALA:HB2	2.02	0.41
3:RF:374:ILE:HG22	3:RF:378:PHE:CE2	2.55	0.41
3:RF:378:PHE:HA	3:RF:381:ILE:HG22	2.01	0.41
3:RF:405:GLU:O	3:RF:409:THR:HG23	2.21	0.41
4:RG:163:LYS:HA	4:RG:163:LYS:HD3	1.73	0.41
4:RG:206:ASN:OD1	4:RG:206:ASN:N	2.53	0.41
4:RG:260:VAL:O	3:RH:397:TRP:HH2	2.03	0.41
3:RH:156:ARG:CZ	3:RH:164:MET:HE3	2.50	0.41
4:RI:214:ARG:HH11	4:RI:215:ARG:HG3	1.84	0.41
4:RI:346:TRP:CD2	3:RJ:391:ARG:HD2	2.55	0.41
3:RJ:6:HIS:CE1	3:RJ:8:GLN:HB2	2.55	0.41
3:RJ:252:LYS:O	3:RJ:256:ASN:ND2	2.54	0.41
4:RK:142:GLY:HA3	4:RK:183:GLU:HG2	2.03	0.41
3:RL:3:GLU:HB2	3:RL:62:ARG:NH2	2.35	0.41
3:SF:258:VAL:HB	4:SG:407:TRP:CZ2	2.56	0.41
3:SH:324:LYS:HG3	4:SI:221:ARG:NH1	2.36	0.41
3:SL:254:ALA:HA	3:SL:257:MET:HG2	2.03	0.41
3:SL:378:PHE:CE1	3:SL:419:VAL:HA	2.55	0.41
4:SM:207:GLU:HB2	4:SM:304:LYS:HZ1	1.85	0.41
32:T:368:HIS:O	32:T:372:ARG:HB3	2.20	0.41
3:TB:19:LYS:NZ	3:TB:223:GLY:O	2.51	0.41
3:TB:305:PRO:HB2	3:TB:310:TYR:HE1	1.86	0.41
3:TB:309:ARG:CZ	3:TB:342:VAL:HG12	2.51	0.41
4:TC:22:GLU:HG2	4:TC:83:TYR:CE2	2.55	0.41
4:TC:68:VAL:HA	4:TC:93:ILE:HB	2.01	0.41
4:TC:296:PHE:CE2	4:TC:335:ILE:HG21	2.56	0.41
4:TC:318:LEU:O	4:TC:375:VAL:HA	2.19	0.41
3:TD:109:GLY:O	3:TD:113:VAL:HG13	2.21	0.41
4:TE:52:PHE:HZ	4:TE:239:THR:HB	1.84	0.41
4:TG:1:MET:SD	4:TG:3:GLU:HB3	2.60	0.41
3:TH:180:VAL:HG23	3:TH:183:TYR:HD2	1.86	0.41
4:TI:132:LEU:HD12	4:TI:132:LEU:O	2.20	0.41
4:TI:226:ASN:C	4:TI:226:ASN:HD22	2.27	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:TK:406:HIS:HA	4:TK:409:VAL:HG22	2.03	0.41
3:TL:173:PRO:HD3	3:TL:203:ASP:OD1	2.21	0.41
3:TL:289:LEU:O	3:TL:293:MET:N	2.39	0.41
3:TL:322:SER:OG	3:TL:323:MET:SD	2.79	0.41
3:TL:379:LYS:HZ1	3:TL:419:VAL:HG13	1.85	0.41
3:TN:137:HIS:O	3:TN:168:SER:HA	2.20	0.41
33:U:343:PHE:O	33:U:347:LYS:HG2	2.21	0.41
3:UB:41:ASP:OD1	3:UB:41:ASP:N	2.52	0.41
3:UB:324:LYS:HE2	4:UC:222:PRO:HG2	2.01	0.41
4:UC:115:VAL:HA	4:UC:118:VAL:HG22	2.03	0.41
4:UC:252:LEU:HA	4:UC:255:PHE:CD2	2.56	0.41
3:UD:73:MET:HA	3:UD:76:VAL:HG12	2.03	0.41
3:UD:374:ILE:HG22	3:UD:378:PHE:CE2	2.56	0.41
4:UE:192:HIS:NE2	4:UE:420:GLU:OE2	2.53	0.41
4:UE:343:PHE:HD2	4:UE:347:CYS:SG	2.43	0.41
3:UF:412:GLU:OE2	3:UF:416:ASN:ND2	2.53	0.41
3:UH:11:GLN:O	3:UH:14:ASN:HB2	2.20	0.41
3:UH:217:LEU:O	3:UH:219:THR:N	2.53	0.41
3:UH:324:LYS:HD3	4:UI:210:TYR:CE1	2.56	0.41
3:UH:328:GLU:OE1	3:UH:332:ASN:ND2	2.54	0.41
3:UH:347:ASN:HB3	4:UI:178:SER:HB3	2.02	0.41
4:UI:324:VAL:HG11	3:UJ:219:THR:HB	2.01	0.41
3:UJ:42:LEU:O	3:UJ:46:ARG:NH1	2.54	0.41
3:UJ:206:ALA:O	3:UJ:210:ILE:HG12	2.20	0.41
4:UK:105:ARG:O	4:UK:109:THR:OG1	2.22	0.41
4:UK:235:VAL:HA	4:UK:238:ILE:HG12	2.03	0.41
4:UK:419:SER:O	4:UK:422:ARG:HG2	2.20	0.41
4:VA:132:LEU:O	4:VA:132:LEU:HD12	2.20	0.41
4:VE:311:LYS:HE3	4:VE:344:VAL:HA	2.02	0.41
4:VI:1:MET:N	4:VI:130:THR:OG1	2.51	0.41
4:VI:346:TRP:NE1	3:VJ:391:ARG:HH11	2.18	0.41
3:VJ:156:ARG:CZ	3:VJ:164:MET:HE3	2.51	0.41
3:VJ:357:PRO:O	3:VJ:359:ARG:NH1	2.53	0.41
33:W:256:ARG:O	33:W:260:HIS:ND1	2.53	0.41
33:W:272:ARG:HA	33:W:275:GLN:HG2	2.02	0.41
33:W:285:GLN:HB3	33:W:289:TYR:OH	2.21	0.41
4:WA:254:GLU:O	4:WA:258:ASN:ND2	2.25	0.41
4:WA:263:PRO:HB2	4:WA:264:ARG:NH1	2.36	0.41
3:WB:70:PRO:HG3	35:XH:74:LYS:HE2	2.02	0.41
3:WB:206:ALA:HB1	3:WB:300:MET:HA	2.03	0.41
4:WC:254:GLU:OE1	4:WC:254:GLU:N	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WE:5:ILE:HG12	4:WE:132:LEU:HD13	2.02	0.41
4:WE:182:VAL:O	4:WE:185:TYR:HB2	2.19	0.41
3:WF:249:ASP:O	3:WF:253:LEU:HG	2.21	0.41
3:WF:286:VAL:HG22	3:WF:363:MET:HE1	2.01	0.41
3:WF:378:PHE:CD1	3:WF:419:VAL:HG22	2.56	0.41
4:WG:135:PHE:CE2	4:WG:166:LYS:HE3	2.56	0.41
4:WG:236:SER:C	4:WG:243:ARG:HH22	2.25	0.41
4:WG:275:VAL:HG23	4:WG:275:VAL:O	2.21	0.41
3:WH:166:THR:OG1	3:WH:198:GLU:O	2.33	0.41
3:WH:376:GLU:H	3:WH:376:GLU:CD	2.28	0.41
4:WI:102:ASN:HA	4:WI:408:TYR:OH	2.20	0.41
4:WI:252:LEU:HA	4:WI:255:PHE:CD2	2.56	0.41
4:WI:333:ALA:HA	4:WI:336:LYS:HE2	2.02	0.41
3:WJ:273:LEU:H	3:WJ:292:GLN:HE22	1.68	0.41
3:WJ:399:THR:HA	3:WJ:403:MET:O	2.21	0.41
4:WK:40:LYS:HE2	4:WK:40:LYS:HB2	1.92	0.41
4:WK:185:TYR:OH	4:WK:403:ALA:O	2.20	0.41
34:XB:102:ARG:NE	34:XB:153:ARG:HH22	2.06	0.41
34:XE:39:ASP:CG	34:XE:40:ASN:N	2.77	0.41
35:XH:72:ASP:HB3	35:XH:77:LYS:NZ	2.32	0.41
35:XI:93:LEU:HB3	35:XI:94:PRO:HD3	2.03	0.41
37:YE:46:ILE:HD12	37:YE:46:ILE:H	1.84	0.41
37:YE:136:GLY:O	37:YE:140:LEU:N	2.51	0.41
37:YG:16:LYS:HA	37:YG:19:GLN:HG2	2.03	0.41
37:YL:100:CYS:HA	37:YL:103:LEU:HD23	2.02	0.41
37:YM:98:GLU:O	37:YM:102:THR:HG23	2.21	0.41
37:YN:117:TYR:CG	37:YN:118:PRO:HA	2.56	0.41
37:YT:82:HIS:NE2	37:YT:86:LEU:HD11	2.35	0.41
36:Z:235:GLU:HB3	36:Z:239:ARG:HH12	1.84	0.41
36:Z:415:SER:O	36:Z:419:THR:HG23	2.20	0.41
1:A:127:LYS:HZ2	1:B:466:GLY:N	2.19	0.41
1:A:313:ARG:CZ	4:HA:26:LEU:HA	2.50	0.41
2:A1:96:THR:OG1	2:A1:100:ARG:NH2	2.53	0.41
2:A1:397:ILE:O	2:A1:399:PRO:HD3	2.20	0.41
2:A2:337:LEU:O	2:A2:341:ILE:HG12	2.21	0.41
2:A3:36:ARG:O	2:A3:40:GLU:OE1	2.39	0.41
2:A3:367:ARG:HH22	14:G6:179:LYS:C	2.28	0.41
3:AB:31:ASP:OD1	3:AB:31:ASP:N	2.53	0.41
3:AB:32:PRO:C	3:AB:83:GLN:HE21	2.25	0.41
3:AB:182:PRO:HA	3:AB:381:ILE:HD11	2.02	0.41
3:AB:318:ARG:HD3	3:AB:358:PRO:HG3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AC:166:LYS:O	4:AC:199:ASP:HB2	2.21	0.41
3:AF:47:ILE:HD11	3:AF:51:TYR:CD2	2.56	0.41
3:AF:72:THR:O	3:AF:75:SER:OG	2.27	0.41
3:AH:77:ARG:O	3:AH:82:GLY:HA3	2.20	0.41
3:AH:389:PHE:HE1	3:AH:408:PHE:HD2	1.68	0.41
4:AK:256:GLN:HE22	3:AL:397:TRP:HE1	1.67	0.41
3:AL:173:PRO:HD2	3:AL:205:GLU:CD	2.45	0.41
3:AL:224:ASP:O	3:AL:228:LEU:HG	2.21	0.41
4:AM:3:GLU:CD	4:AM:132:LEU:H	2.29	0.41
4:AM:88:HIS:HE1	4:AM:90:GLU:CD	2.28	0.41
4:AM:105:ARG:O	4:AM:109:THR:OG1	2.26	0.41
4:AM:210:TYR:CE1	4:AM:227:LEU:HD21	2.55	0.41
4:AM:252:LEU:HD12	4:AM:253:THR:N	2.35	0.41
4:AM:406:HIS:HA	4:AM:409:VAL:HG22	2.01	0.41
5:B3:336:TYR:HA	5:B3:339:ILE:HD12	2.03	0.41
5:B4:93:ALA:O	5:B4:97:GLU:OE1	2.39	0.41
5:B4:196:SER:C	10:E1:147:LYS:HE3	2.46	0.41
5:B4:196:SER:O	5:B4:199:ILE:HG12	2.20	0.41
5:B8:199:ILE:HG22	5:B9:316:THR:HG21	2.03	0.41
5:B8:380:LYS:HD2	5:B8:383:THR:OG1	2.21	0.41
3:BB:3:GLU:OE2	3:BB:129:CYS:N	2.54	0.41
3:BB:56:GLY:H	15:H1:28:ARG:HH12	1.67	0.41
4:BC:140:SER:HA	4:BC:170:ALA:HB1	2.02	0.41
3:BD:148:GLY:O	3:BD:152:ILE:HG12	2.21	0.41
4:BE:145:THR:HG23	39:BE:501:GTP:O3B	2.20	0.41
4:BE:318:LEU:O	4:BE:375:VAL:HA	2.20	0.41
4:BE:401:LYS:H	4:BE:401:LYS:HG2	1.63	0.41
3:BH:11:GLN:O	3:BH:14:ASN:HB2	2.21	0.41
3:BH:309:ARG:O	3:BH:371:SER:OG	2.30	0.41
3:BH:311:LEU:HB2	3:BH:370:ASN:O	2.20	0.41
4:BK:280:LYS:HA	4:BK:280:LYS:HD2	1.82	0.41
4:BK:393:HIS:HA	4:BK:396:ASP:CG	2.46	0.41
3:BL:84:ILE:HA	3:BL:84:ILE:HD12	1.98	0.41
3:BL:312:THR:OG1	3:BL:370:ASN:HB3	2.21	0.41
6:C:127:GLU:HA	6:C:278:ILE:HD11	2.01	0.41
7:C3:157:LYS:NZ	7:C3:258:LEU:HG	2.35	0.41
7:C7:264:ALA:HB2	7:C8:410:GLU:HG3	2.02	0.41
7:C7:405:ARG:HB3	7:Ca:457:HIS:CE1	2.56	0.41
7:C9:390:SER:O	7:C9:394:LYS:HG2	2.20	0.41
7:C9:418:LEU:HD21	10:E3:112:HIS:HD2	1.85	0.41
3:CB:111:GLU:HG2	3:CB:112:LEU:HD22	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CC:389:ALA:HA	4:CC:392:ASP:OD2	2.20	0.41
3:CD:53:GLU:O	3:DB:283:ALA:HB2	2.20	0.41
3:CD:137:HIS:O	3:CD:168:SER:HA	2.21	0.41
3:CD:200:TYR:HB3	3:CD:202:ILE:HD11	2.02	0.41
4:CE:243:ARG:CZ	4:CE:244:PHE:CE1	3.03	0.41
3:CH:12:CYS:HA	3:CH:15:GLN:CG	2.46	0.41
4:CI:3:GLU:OE2	4:CI:131:GLY:N	2.50	0.41
4:CI:103:TYR:CD1	4:CI:148:GLY:HA2	2.56	0.41
3:CJ:324:LYS:HE2	4:CK:222:PRO:HD2	2.03	0.41
4:CK:161:TYR:HB3	4:CK:164:LYS:NZ	2.35	0.41
4:CK:308:ARG:HH21	4:CK:342:GLN:HG2	1.86	0.41
3:CL:12:CYS:CB	39:CL:501:GTP:H5'	2.49	0.41
3:CL:31:ASP:OD2	3:CL:33:THR:OG1	2.36	0.41
3:CL:133:PHE:CE1	3:CL:164:MET:HA	2.56	0.41
3:CL:282:ARG:HE	3:CL:288:GLU:CD	2.27	0.41
7:Ca:179:ARG:NH1	7:Ca:183:ARG:HB3	2.36	0.41
7:Cb:132:TYR:CZ	7:Cb:136:ARG:HD2	2.55	0.41
7:Cb:373:PHE:HA	7:Cb:376:GLU:OE1	2.21	0.41
7:Cb:453:ALA:HA	7:Cb:456:GLU:CD	2.45	0.41
6:D:83:ASN:OD1	6:D:84:LYS:N	2.52	0.41
8:D2:210:SER:HA	8:D2:213:MET:CE	2.51	0.41
8:D4:61:TYR:O	8:D4:64:TYR:HB2	2.20	0.41
8:D4:240:PHE:CD1	8:D4:240:PHE:C	2.99	0.41
8:D7:372:ASN:OD1	8:D7:372:ASN:N	2.53	0.41
8:D8:127:GLU:OE2	8:D8:131:MET:HE3	2.21	0.41
4:DA:1:MET:SD	4:DA:2:ARG:N	2.94	0.41
4:DA:135:PHE:O	4:DA:167:LEU:HB2	2.20	0.41
4:DA:216:ASN:OD1	4:DA:217:LEU:N	2.54	0.41
4:DA:272:TYR:HD2	4:DA:275:VAL:HG13	1.85	0.41
3:DB:3:GLU:OE2	3:DB:127:CYS:HB2	2.21	0.41
3:DB:5:VAL:HG22	3:DB:62:ARG:HB3	2.02	0.41
4:DC:3:GLU:CD	4:DC:132:LEU:H	2.27	0.41
4:DC:99:ALA:HB3	4:DC:144:GLY:O	2.20	0.41
4:DC:204:VAL:HG23	4:DC:302:MET:HG3	2.02	0.41
4:DE:132:LEU:O	4:DE:132:LEU:HD12	2.21	0.41
4:DE:278:ALA:O	4:DE:370:LYS:NZ	2.53	0.41
3:DF:189:VAL:HA	3:DF:192:LEU:HB2	2.03	0.41
3:DF:217:LEU:O	3:DF:219:THR:N	2.53	0.41
4:DG:11:GLN:O	4:DG:14:VAL:HG22	2.21	0.41
4:DG:70:LEU:HB2	4:DG:145:THR:HG21	2.02	0.41
4:DG:231:ILE:HA	4:DG:234:ILE:HB	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DG:414:GLU:HG2	4:DG:417:GLU:OE1	2.21	0.41
3:DH:72:THR:O	3:DH:76:VAL:HG23	2.19	0.41
3:DH:276:ARG:H	3:DH:276:ARG:HG3	1.64	0.41
3:DH:303:CYS:O	3:DH:305:PRO:HD3	2.21	0.41
3:DJ:31:ASP:OD2	3:DJ:35:THR:OG1	2.36	0.41
3:DJ:87:PRO:HA	3:DJ:90:PHE:CD2	2.56	0.41
3:DJ:109:GLY:O	3:DJ:113:VAL:HG13	2.20	0.41
4:DK:167:LEU:HB3	4:DK:169:PHE:CZ	2.56	0.41
4:DK:275:VAL:HG23	4:DK:275:VAL:O	2.21	0.41
10:E3:62:VAL:HG23	10:E3:62:VAL:O	2.21	0.41
4:EA:234:ILE:O	4:EA:237:SER:OG	2.34	0.41
4:EC:70:LEU:HB3	4:EC:97:GLU:O	2.20	0.41
4:EE:66:VAL:HG12	4:EE:68:VAL:HG13	2.02	0.41
4:EE:102:ASN:ND2	4:EE:105:ARG:HB2	2.36	0.41
4:EE:346:TRP:HZ3	3:EF:387:ALA:O	2.03	0.41
4:EG:88:HIS:CE1	4:EG:121:ARG:HH22	2.38	0.41
4:EG:280:LYS:HZ1	4:EG:284:GLU:CD	2.28	0.41
3:EH:313:VAL:HG23	3:EH:349:VAL:HA	2.02	0.41
3:EH:320:ARG:HA	3:EH:320:ARG:NH1	2.36	0.41
3:EJ:282:ARG:NH2	3:EJ:292:GLN:OE1	2.26	0.41
4:EK:117:LEU:O	4:EK:121:ARG:HG2	2.20	0.41
4:EK:362:VAL:HA	4:EK:368:LEU:HD11	2.03	0.41
3:EL:216:LYS:O	3:EL:276:ARG:NH2	2.53	0.41
3:EL:325:GLU:O	3:EL:328:GLU:HG3	2.21	0.41
9:F:356:LEU:HD13	3:IL:227:HIS:ND1	2.36	0.41
11:F3:208:HIS:HB3	11:F4:89:ARG:HE	1.86	0.41
11:F4:153:LYS:HD3	11:F4:257:LYS:CD	2.50	0.41
11:F6:402:ARG:NH1	11:F6:403:PRO:HD2	2.35	0.41
11:F7:91:THR:OG1	11:F7:93:ARG:HG3	2.21	0.41
4:FA:132:LEU:HD12	4:FA:132:LEU:O	2.20	0.41
3:FB:52:ASN:CG	3:FB:62:ARG:HD3	2.46	0.41
3:FB:229:VAL:O	3:FB:233:MET:HE3	2.20	0.41
3:FD:21:TRP:CZ2	3:FD:63:ALA:HB2	2.56	0.41
3:FD:69:GLU:OE1	3:FD:72:THR:N	2.47	0.41
3:FD:213:ARG:O	3:FD:216:LYS:HE2	2.21	0.41
3:FD:280:GLN:HB3	13:G1:430:ILE:HG13	2.02	0.41
3:FD:357:PRO:HB3	3:FD:362:LYS:O	2.20	0.41
3:FF:246:LEU:HB2	3:FF:352:ALA:HB1	2.02	0.41
3:FF:246:LEU:HD12	3:FF:352:ALA:HB1	2.02	0.41
3:FF:336:LYS:HD3	3:FF:337:ASN:OD1	2.21	0.41
3:FH:276:ARG:HB3	13:G2:461:ILE:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FI:324:VAL:HG21	3:FJ:219:THR:HG22	2.03	0.41
3:FJ:328:GLU:O	3:FJ:332:ASN:N	2.47	0.41
4:FK:16:ILE:HG13	4:FK:17:GLY:N	2.35	0.41
4:FK:68:VAL:HG12	4:FK:93:ILE:HB	2.02	0.41
4:FK:251:ASP:HB3	4:FK:254:GLU:OE1	2.21	0.41
3:FL:372:THR:HB	3:FL:375:GLN:HE22	1.86	0.41
11:Fa:411:VAL:HA	11:Fa:414:PHE:HD2	1.85	0.41
11:Fb:410:ASP:OD2	11:Fc:293:PRO:HG2	2.21	0.41
11:Fe:334:LYS:O	11:Fe:337:THR:OG1	2.32	0.41
11:Fe:450:ARG:NH1	11:Fe:451:LEU:HB2	2.36	0.41
11:Ff:327:THR:O	11:Ff:331:GLN:HG2	2.21	0.41
11:Fh:353:VAL:O	11:Fh:357:LEU:HG	2.20	0.41
11:Fh:363:LYS:O	11:Fh:367:GLU:HG2	2.21	0.41
11:Fj:473:ARG:NH1	11:Fj:473:ARG:O	2.51	0.41
11:Fk:167:ASN:HD21	11:Fk:247:GLN:HG2	1.86	0.41
11:Fm:134:MET:SD	11:Fm:304:ILE:HD11	2.61	0.41
11:Fm:308:GLN:HA	11:Fm:311:ARG:HG2	2.03	0.41
12:G:175:LYS:HG3	25:N:75:PHE:HE1	1.86	0.41
13:G1:78:LYS:HZ1	4:ME:31:GLN:HB3	1.84	0.41
13:G1:127:GLU:OE2	13:G1:151:ARG:NH2	2.53	0.41
13:G1:131:MET:HB2	13:G1:154:PHE:CD2	2.55	0.41
13:G1:378:LYS:HG3	13:G1:379:GLN:N	2.32	0.41
13:G1:433:ASP:HA	13:G1:436:ARG:HH11	1.86	0.41
13:G1:438:PHE:CD1	13:G1:453:GLU:HB2	2.56	0.41
13:G2:248:ILE:HD12	13:G2:261:HIS:NE2	2.35	0.41
13:G2:319:GLU:N	13:G2:319:GLU:OE1	2.53	0.41
13:G3:248:ILE:HG13	13:G3:260:ARG:O	2.21	0.41
14:G4:393:TYR:N	14:G4:495:LYS:O	2.45	0.41
14:G4:636:ASP:O	14:G4:640:TYR:HB3	2.21	0.41
14:G5:195:PRO:O	14:G5:198:LYS:HG2	2.21	0.41
14:G5:508:TYR:CE1	14:G5:511:ALA:HA	2.55	0.41
14:G5:584:ASP:HA	14:G5:587:MET:HE3	2.03	0.41
14:G5:616:LEU:O	14:G5:620:ILE:HG12	2.21	0.41
14:G6:331:ASP:OD1	14:G6:331:ASP:N	2.54	0.41
14:G6:454:ILE:HG22	14:G6:465:VAL:HG22	2.01	0.41
14:G6:616:LEU:O	14:G6:620:ILE:HG12	2.20	0.41
4:GA:9:VAL:HA	4:GA:68:VAL:HG23	2.03	0.41
4:GA:273:ALA:O	4:GA:275:VAL:N	2.45	0.41
4:GA:418:PHE:C	4:GA:422:ARG:HH21	2.29	0.41
3:GB:11:GLN:HG3	39:GB:501:GTP:PA	2.59	0.41
3:GB:46:ARG:O	3:GB:49:VAL:HG22	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GB:132:GLY:HA2	3:GB:162:ARG:HB3	2.03	0.41
3:GD:250:LEU:HD13	3:GD:253:LEU:HD12	2.02	0.41
3:GD:261:PRO:O	3:GD:264:HIS:NE2	2.53	0.41
4:GE:32:PRO:HG2	23:M:77:GLY:O	2.21	0.41
3:GF:324:LYS:HG3	4:GG:221:ARG:NH1	2.36	0.41
3:GH:103:LYS:O	3:GH:108:GLU:HG2	2.21	0.41
3:GH:350:LYS:NZ	4:GI:181:VAL:HG23	2.36	0.41
4:GI:11:GLN:HG3	39:GI:501:GTP:O1B	2.21	0.41
4:GI:19:ALA:HA	4:GI:22:GLU:OE1	2.20	0.41
4:GI:21:TRP:O	4:GI:25:CYS:N	2.47	0.41
4:GI:271:THR:HA	4:GI:302:MET:HE1	2.02	0.41
4:GI:302:MET:SD	4:GI:302:MET:N	2.93	0.41
3:GJ:214:THR:HG21	3:GJ:273:LEU:HB3	2.02	0.41
3:GJ:285:THR:C	3:GJ:363:MET:HE1	2.46	0.41
3:GJ:329:GLN:HA	3:GJ:332:ASN:HB2	2.02	0.41
15:H2:303:SER:HA	15:H2:306:ARG:NE	2.36	0.41
15:H3:278:SER:HA	15:H3:308:TYR:CE2	2.55	0.41
15:H5:37:ARG:HA	15:H5:37:ARG:NE	2.35	0.41
4:HA:160:ASP:OD1	4:HA:161:TYR:N	2.54	0.41
3:HB:180:VAL:HG22	3:HB:183:TYR:HB2	2.02	0.41
3:HB:286:VAL:HB	3:HB:287:PRO:HD3	2.03	0.41
4:HC:1:MET:O	4:HC:131:GLY:HA3	2.21	0.41
4:HC:157:LEU:HD11	4:HC:166:LYS:HZ2	1.86	0.41
4:HC:252:LEU:HA	4:HC:255:PHE:CD2	2.55	0.41
4:HC:313:MET:HE1	4:HC:382:THR:N	2.36	0.41
3:HF:32:PRO:HA	3:HF:81:PHE:CE1	2.55	0.41
3:HF:274:THR:HG21	3:HF:279:GLN:HG3	2.03	0.41
3:HF:293:MET:HA	3:HF:298:ASN:HD22	1.86	0.41
3:HF:337:ASN:HB2	3:HF:340:TYR:CD2	2.54	0.41
4:HG:297:GLU:HB3	4:HG:300:ASN:OD1	2.21	0.41
4:HG:338:LYS:HE2	23:M:166:CYS:SG	2.60	0.41
3:HH:91:VAL:HG21	3:HH:119:VAL:HG21	2.02	0.41
3:HH:272:PRO:HA	3:HH:292:GLN:OE1	2.21	0.41
3:HH:282:ARG:HE	3:HH:288:GLU:CD	2.29	0.41
4:HI:3:GLU:CD	4:HI:132:LEU:H	2.29	0.41
4:HI:19:ALA:O	4:HI:23:LEU:HG	2.21	0.41
4:HI:118:VAL:O	4:HI:122:ILE:HG13	2.21	0.41
4:HI:292:THR:HA	4:HI:295:CYS:SG	2.60	0.41
4:HI:318:LEU:HD12	4:HI:354:GLY:O	2.21	0.41
3:HJ:87:PRO:HA	3:HJ:90:PHE:CD2	2.55	0.41
3:HJ:272:PRO:HA	3:HJ:292:GLN:OE1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HJ:316:VAL:HG22	3:HJ:352:ALA:HB3	2.02	0.41
3:HJ:330:MET:O	3:HJ:334:GLN:HG3	2.21	0.41
3:HL:54:ALA:HB3	3:HL:58:LYS:HG3	2.03	0.41
3:HL:55:THR:O	3:HL:58:LYS:HG2	2.21	0.41
3:HL:188:SER:O	3:HL:192:LEU:HG	2.21	0.41
17:I1:50:GLN:HG3	17:I1:54:ASN:ND2	2.36	0.41
4:IA:13:GLY:HA2	4:IA:16:ILE:HD11	2.03	0.41
4:IA:263:PRO:O	4:IA:264:ARG:HB2	2.20	0.41
4:IA:346:TRP:CD1	4:IA:346:TRP:N	2.86	0.41
3:IB:324:LYS:H	3:IB:324:LYS:HG2	1.70	0.41
3:IF:357:PRO:HB3	3:IF:362:LYS:O	2.20	0.41
4:IG:36:MET:HG3	4:IG:41:THR:OG1	2.21	0.41
4:IG:171:ILE:HD12	4:IG:204:VAL:HG13	2.02	0.41
4:IG:185:TYR:HA	4:IG:395:PHE:CE1	2.55	0.41
4:IG:317:MET:O	4:IG:353:VAL:HA	2.21	0.41
3:IH:247:ASN:HB3	3:IH:252:LYS:CG	2.50	0.41
3:IH:293:MET:HE2	3:IH:367:PHE:HB3	2.03	0.41
4:II:90:GLU:OE1	4:II:90:GLU:N	2.54	0.41
4:II:170:ALA:HB3	4:II:203:MET:HE1	2.02	0.41
4:II:192:HIS:CE1	4:II:193:THR:HG23	2.56	0.41
4:II:319:TYR:HB2	4:II:355:ILE:HD13	2.03	0.41
3:IJ:47:ILE:HD11	3:IJ:51:TYR:CD2	2.55	0.41
4:IK:263:PRO:O	4:IK:264:ARG:HB2	2.21	0.41
4:IM:333:ALA:HA	4:IM:336:LYS:HD2	2.02	0.41
4:IM:399:TYR:OH	4:IM:415:GLU:HB2	2.21	0.41
18:J:95:TYR:CZ	18:J:135:LEU:HD22	2.56	0.41
18:J:156:LYS:HZ2	18:J:158:SER:H	1.69	0.41
4:JA:280:LYS:NZ	4:JA:283:HIS:HE1	2.19	0.41
3:JB:31:ASP:OD2	3:JB:35:THR:OG1	2.36	0.41
3:JB:249:ASP:O	3:JB:253:LEU:HG	2.20	0.41
4:JC:132:LEU:HD21	4:JC:135:PHE:CE1	2.56	0.41
4:JC:186:ASN:OD1	4:JC:187:SER:N	2.54	0.41
4:JC:346:TRP:CD1	4:JC:346:TRP:N	2.88	0.41
3:JD:77:ARG:O	3:JD:82:GLY:HA3	2.21	0.41
3:JD:150:LEU:C	3:JD:154:LYS:HZ3	2.28	0.41
3:JD:174:LYS:HG2	3:JD:205:GLU:OE2	2.20	0.41
3:JD:182:PRO:HB2	3:JD:388:MET:CE	2.51	0.41
3:JD:326:VAL:O	3:JD:330:MET:HG2	2.21	0.41
3:JD:389:PHE:CZ	3:JD:405:GLU:HB2	2.55	0.41
4:JE:224:TYR:HA	4:JE:227:LEU:HB2	2.03	0.41
4:JG:3:GLU:CD	4:JG:132:LEU:H	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:JG:196:GLU:OE1	4:JG:196:GLU:N	2.47	0.41
3:JH:102:ALA:O	3:JH:106:TYR:N	2.45	0.41
4:JI:70:LEU:HA	4:JI:95:GLY:HA3	2.02	0.41
3:JJ:47:ILE:HG12	3:JJ:59:TYR:CD2	2.55	0.41
3:JJ:386:THR:O	3:JJ:390:ARG:N	2.54	0.41
4:JK:20:CYS:O	4:JK:24:TYR:N	2.47	0.41
20:K:33:ARG:HD3	20:K:38:LEU:HA	2.03	0.41
21:K3:139:ARG:HA	21:K3:264:TRP:HE1	1.85	0.41
21:K3:239:GLN:HG3	24:M2:66:PHE:CE1	2.56	0.41
21:K3:323:ASN:O	21:K3:326:GLN:HG3	2.20	0.41
21:K4:284:ASP:OD1	21:K4:289:TYR:HB3	2.20	0.41
21:K4:466:ARG:NH2	3:KL:399:THR:O	2.53	0.41
21:K5:111:LEU:HB3	21:K5:114:HIS:HB2	2.02	0.41
21:K5:116:ASP:OD1	21:K5:116:ASP:N	2.53	0.41
4:KA:30:ILE:HD13	4:KA:36:MET:CE	2.51	0.41
4:KA:259:LEU:HD13	4:KA:314:ALA:HB1	2.03	0.41
4:KC:154:MET:HA	4:KC:157:LEU:HG	2.03	0.41
4:KC:262:TYR:CE1	3:KD:393:ALA:HA	2.55	0.41
3:KD:41:ASP:O	3:KD:44:LEU:N	2.48	0.41
3:KD:319:GLY:N	3:KD:321:MET:HE1	2.35	0.41
4:KG:81:GLY:O	4:KG:84:ARG:NH1	2.53	0.41
4:KG:121:ARG:O	4:KG:124:LYS:HG2	2.21	0.41
3:KH:398:TYR:O	3:KH:403:MET:N	2.53	0.41
4:KI:139:HIS:O	4:KI:170:ALA:HA	2.21	0.41
4:KI:208:ALA:HA	4:KI:211:ASP:HB2	2.03	0.41
4:KI:425:LEU:O	4:KI:428:LEU:N	2.53	0.41
3:KJ:39:ASP:OD1	3:KJ:39:ASP:N	2.54	0.41
4:KK:3:GLU:CD	4:KK:131:GLY:H	2.29	0.41
3:KL:12:CYS:HA	3:KL:15:GLN:OE1	2.20	0.41
3:KL:182:PRO:HB2	3:KL:388:MET:CE	2.51	0.41
3:KL:309:ARG:NH1	3:KL:342:VAL:HA	2.36	0.41
20:L:71:ILE:CG2	20:L:270:VAL:HB	2.50	0.41
22:L2:161:ARG:NH2	4:MG:399:TYR:O	2.54	0.41
22:L2:248:LYS:H	36:Y:40:GLN:HE21	1.66	0.41
3:LB:14:ASN:HD22	3:LB:72:THR:HB	1.86	0.41
3:LB:20:PHE:CZ	3:LB:24:ILE:HD11	2.56	0.41
4:LC:21:TRP:HA	4:LC:24:TYR:HB2	2.01	0.41
4:LC:28:HIS:HB2	4:LC:30:ILE:HG12	2.02	0.41
4:LC:264:ARG:NH1	28:O1:84:ARG:HB2	2.35	0.41
4:LC:433:GLU:O	4:LC:437:VAL:HG23	2.21	0.41
3:LF:6:HIS:HB2	3:LF:134:GLN:NE2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LF:423:GLN:HA	3:LF:426:GLN:HG3	2.01	0.41
3:LF:423:GLN:HA	3:LF:426:GLN:HE21	1.84	0.41
4:LG:255:PHE:O	4:LG:259:LEU:HB2	2.21	0.41
3:LH:252:LYS:NZ	4:LI:144:GLY:HA3	2.36	0.41
3:LJ:31:ASP:OD1	3:LJ:31:ASP:N	2.52	0.41
3:LJ:121:ARG:HA	3:LJ:124:ALA:HB3	2.02	0.41
3:LJ:148:GLY:O	3:LJ:152:ILE:HG12	2.21	0.41
3:LJ:172:SER:OG	3:LJ:174:LYS:HG2	2.21	0.41
24:M1:98:HIS:O	24:M1:98:HIS:CG	2.74	0.41
24:M3:53:PRO:HD2	24:M3:89:PHE:CE2	2.55	0.41
24:M3:98:HIS:ND1	24:M3:98:HIS:O	2.54	0.41
3:MB:212:PHE:CD1	32:S:428:VAL:HB	2.55	0.41
4:MC:202:PHE:CD1	4:MC:268:PRO:HD2	2.56	0.41
4:ME:213:CYS:O	4:ME:218:ASP:N	2.54	0.41
4:ME:352:LYS:HZ2	3:MF:178:THR:HA	1.86	0.41
4:ME:415:GLU:OE1	4:ME:415:GLU:N	2.42	0.41
4:MG:47:ASP:CG	4:MG:48:SER:H	2.29	0.41
4:MG:55:GLU:HA	4:MG:60:LYS:O	2.21	0.41
4:MG:141:PHE:C	4:MG:143:GLY:H	2.29	0.41
4:MG:182:VAL:O	4:MG:185:TYR:HB2	2.20	0.41
4:MG:324:VAL:HG21	3:MH:219:THR:HG22	2.03	0.41
3:MH:309:ARG:N	3:MH:372:THR:HG1	2.17	0.41
3:MH:333:VAL:HA	3:MH:336:LYS:CB	2.48	0.41
3:MH:344:TRP:O	4:MI:401:LYS:NZ	2.35	0.41
3:MH:378:PHE:CE1	3:MH:419:VAL:HG22	2.56	0.41
4:MI:263:PRO:HB2	4:MI:264:ARG:NH1	2.36	0.41
4:MI:265:ILE:HB	4:MI:432:TYR:HE1	1.86	0.41
4:MI:288:VAL:O	4:MI:292:THR:OG1	2.23	0.41
3:MJ:223:GLY:HA2	3:MJ:226:ASN:OD1	2.20	0.41
4:MK:327:ASP:OD1	4:MK:328:VAL:N	2.53	0.41
3:ML:306:ARG:O	3:ML:306:ARG:NE	2.51	0.41
3:ML:388:MET:O	3:ML:392:LYS:N	2.54	0.41
4:MM:175:PRO:C	4:MM:390:ARG:HH11	2.28	0.41
26:N3:89:LYS:H	26:N3:89:LYS:HD2	1.86	0.41
4:NA:202:PHE:CD1	4:NA:268:PRO:HD2	2.56	0.41
4:NA:321:GLY:HA3	4:NA:372:GLN:O	2.20	0.41
4:NA:329:ASN:HA	4:NA:332:ILE:HG12	2.03	0.41
4:NA:345:ASP:N	4:NA:345:ASP:OD1	2.53	0.41
4:NA:390:ARG:HA	4:NA:393:HIS:CD2	2.56	0.41
3:NB:223:GLY:O	3:NB:227:HIS:N	2.52	0.41
3:NB:319:GLY:HA3	3:NB:363:MET:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:NE:145:THR:HG23	39:NE:501:GTP:O3B	2.20	0.41
3:NF:47:ILE:HG12	3:NF:59:TYR:CD2	2.55	0.41
3:NF:192:LEU:O	3:NF:196:THR:HG22	2.21	0.41
3:NF:216:LYS:HB3	3:NF:276:ARG:NH2	2.36	0.41
3:NF:318:ARG:HD3	3:NF:358:PRO:HG3	2.02	0.41
4:NG:424:ASP:O	4:NG:428:LEU:HG	2.20	0.41
4:NI:1:MET:CE	4:NI:2:ARG:H	2.33	0.41
4:OA:346:TRP:CD1	4:OA:346:TRP:N	2.89	0.41
3:OB:77:ARG:O	3:OB:77:ARG:NH1	2.41	0.41
3:OB:226:ASN:HA	3:OB:229:VAL:HG22	2.03	0.41
4:OC:324:VAL:HG11	3:OD:219:THR:HB	2.03	0.41
4:OE:47:ASP:HB3	4:OE:49:PHE:CE2	2.56	0.41
3:OF:32:PRO:O	3:OF:83:GLN:NE2	2.50	0.41
3:OF:324:LYS:HD2	4:OG:221:ARG:HA	2.01	0.41
4:OG:408:TYR:O	4:OG:411:GLU:HG3	2.20	0.41
3:OH:392:LYS:HB3	3:OH:395:LEU:HD13	2.03	0.41
4:OI:90:GLU:HG2	4:OI:121:ARG:NH2	2.36	0.41
3:OJ:318:ARG:HB3	3:OJ:364:SER:OG	2.20	0.41
3:OJ:412:GLU:OE1	3:OJ:415:MET:HE3	2.21	0.41
27:P:150:GLU:HA	27:P:153:ARG:NE	2.36	0.41
29:P2:15:GLU:HG3	29:P2:615:LYS:HD3	2.03	0.41
29:P2:316:ARG:O	29:P2:325:THR:OG1	2.33	0.41
4:PA:46:ASP:OD1	4:PA:50:ASN:ND2	2.48	0.41
4:PA:182:VAL:O	4:PA:185:TYR:HB2	2.20	0.41
3:PB:73:MET:O	3:PB:77:ARG:N	2.35	0.41
3:PB:318:ARG:C	3:PB:321:MET:HE1	2.45	0.41
3:PB:318:ARG:HD3	3:PB:358:PRO:HG3	2.02	0.41
3:PD:41:ASP:OD1	3:PD:41:ASP:N	2.54	0.41
3:PD:149:THR:HG21	3:PD:188:SER:HA	2.02	0.41
4:PE:117:LEU:O	4:PE:121:ARG:HG2	2.21	0.41
4:PE:196:GLU:OE1	4:PE:196:GLU:N	2.46	0.41
4:PE:438:ASP:C	3:PF:391:ARG:HH12	2.29	0.41
3:PF:324:LYS:HE3	3:PF:324:LYS:HB3	1.91	0.41
4:PG:160:ASP:OD1	4:PG:161:TYR:N	2.53	0.41
4:PG:425:LEU:HD12	4:PG:425:LEU:HA	1.91	0.41
4:PI:321:GLY:HA3	4:PI:372:GLN:O	2.21	0.41
3:PJ:20:PHE:HA	3:PJ:230:SER:HB2	2.03	0.41
3:PJ:67:ASP:HB3	3:PJ:73:MET:SD	2.61	0.41
3:PJ:414:ASN:O	3:PJ:418:LEU:HG	2.21	0.41
4:PK:236:SER:O	4:PK:243:ARG:NH2	2.42	0.41
3:PL:51:TYR:CD1	3:PL:61:PRO:HA	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:PM:285:GLN:NE2	4:PM:286:LEU:O	2.54	0.41
4:PM:321:GLY:N	4:PM:356:ASN:O	2.26	0.41
4:PM:420:GLU:HA	4:PM:423:GLU:OE2	2.21	0.41
27:Q:125:ARG:HH12	27:Q:140:LYS:HE2	1.85	0.41
3:QB:106:TYR:CE1	3:QB:403:MET:HE1	2.56	0.41
3:QD:109:GLY:O	3:QD:113:VAL:HG13	2.20	0.41
39:QD:502:GTP:C5	4:QE:224:TYR:CE1	3.07	0.41
4:QE:2:ARG:NE	4:QE:242:LEU:HG	2.36	0.41
4:QE:139:HIS:O	4:QE:170:ALA:HA	2.20	0.41
4:QE:270:ALA:HA	4:QE:377:MET:O	2.21	0.41
4:QE:285:GLN:NE2	4:QE:286:LEU:O	2.54	0.41
3:QF:61:PRO:HD3	3:QF:84:ILE:HG13	2.02	0.41
4:QG:1:MET:O	4:QG:133:GLN:NE2	2.47	0.41
4:QG:139:HIS:O	4:QG:170:ALA:HA	2.21	0.41
3:QH:5:VAL:HG23	3:QH:130:LEU:HD11	2.02	0.41
4:QI:11:GLN:O	4:QI:14:VAL:HG22	2.20	0.41
4:QI:88:HIS:CE1	4:QI:121:ARG:HH22	2.39	0.41
3:QJ:391:ARG:C	3:QJ:392:LYS:HG3	2.46	0.41
4:QK:176:GLN:NE2	4:QK:177:VAL:HG23	2.36	0.41
4:QK:272:TYR:CE1	4:QK:374:ALA:HB1	2.56	0.41
3:QL:14:ASN:HD21	3:QL:67:ASP:CG	2.29	0.41
3:QL:186:THR:HG21	3:QL:385:PHE:CE1	2.56	0.41
4:QM:279:GLU:HB3	37:YV:128:ASP:HB3	2.03	0.41
4:QM:292:THR:HA	4:QM:295:CYS:SG	2.60	0.41
4:RC:286:LEU:HD23	4:RC:286:LEU:H	1.85	0.41
4:RE:12:ALA:HB1	39:RE:501:GTP:N3	2.36	0.41
4:RE:286:LEU:HD23	4:RE:286:LEU:H	1.85	0.41
3:RF:305:PRO:HB3	3:RF:371:SER:OG	2.20	0.41
4:RG:286:LEU:HD23	4:RG:286:LEU:H	1.85	0.41
3:RH:217:LEU:O	3:RH:219:THR:N	2.52	0.41
4:RI:269:LEU:O	4:RI:378:LEU:HA	2.20	0.41
3:RJ:374:ILE:HG22	3:RJ:378:PHE:CE2	2.56	0.41
4:RK:164:LYS:HE3	4:RK:164:LYS:HB3	1.97	0.41
4:RK:331:ALA:O	4:RK:335:ILE:HG12	2.20	0.41
3:RL:273:LEU:H	3:RL:292:GLN:HE22	1.69	0.41
3:SB:30:ILE:HG13	3:SB:36:TYR:HD1	1.86	0.41
3:SB:91:VAL:HG11	3:SB:116:VAL:HG12	2.02	0.41
3:SB:245:GLN:HE22	4:SC:15:GLN:HE22	1.68	0.41
3:SB:255:VAL:HG12	4:SC:407:TRP:CD2	2.55	0.41
4:SC:34:GLY:O	4:SC:61:HIS:ND1	2.54	0.41
4:SC:381:THR:O	4:SC:384:ILE:HG12	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:SE:363:VAL:HG13	4:SE:366:GLY:HA3	2.02	0.41
4:SE:370:LYS:H	4:SE:370:LYS:HG2	1.68	0.41
4:SE:406:HIS:HA	4:SE:409:VAL:HG22	2.03	0.41
3:SF:305:PRO:HA	3:SF:373:ALA:HB2	2.02	0.41
4:SG:317:MET:HB2	4:SG:375:VAL:HG21	2.03	0.41
3:SH:109:GLY:O	3:SH:113:VAL:HG13	2.21	0.41
3:SH:188:SER:O	3:SH:192:LEU:HG	2.20	0.41
4:SI:100:ALA:HB3	4:SI:105:ARG:NH1	2.35	0.41
3:SJ:134:GLN:HA	3:SJ:165:ASN:HB3	2.03	0.41
4:SK:257:THR:HA	3:SL:397:TRP:CE2	2.56	0.41
4:SK:368:LEU:HD23	4:SK:368:LEU:H	1.85	0.41
3:SL:304:ASP:O	3:SL:307:HIS:ND1	2.48	0.41
3:TD:139:LEU:N	3:TD:168:SER:OG	2.54	0.41
3:TD:405:GLU:O	3:TD:409:THR:HG23	2.21	0.41
3:TF:334:GLN:HA	3:TF:341:PHE:HE2	1.86	0.41
4:TG:102:ASN:HB3	4:TG:105:ARG:HB2	2.01	0.41
4:TG:317:MET:HE1	4:TG:351:PHE:HB2	2.02	0.41
3:TH:399:THR:HA	3:TH:403:MET:O	2.21	0.41
4:TI:2:ARG:NE	4:TI:242:LEU:HG	2.36	0.41
4:TI:2:ARG:NH1	4:TI:241:SER:O	2.54	0.41
4:TI:11:GLN:O	4:TI:14:VAL:HG22	2.20	0.41
4:TI:50:ASN:OD1	4:TI:51:THR:N	2.53	0.41
4:TI:430:LYS:NZ	4:TI:434:GLU:HB2	2.35	0.41
3:TJ:180:VAL:HG22	3:TJ:183:TYR:HB2	2.03	0.41
4:TK:269:LEU:N	4:TK:379:SER:O	2.35	0.41
4:TM:262:TYR:HE1	3:TN:393:ALA:HA	1.85	0.41
4:UA:60:LYS:HD3	4:VA:283:HIS:HB2	2.03	0.41
4:UA:255:PHE:O	4:UA:259:LEU:HB2	2.20	0.41
3:UB:324:LYS:HE3	3:UB:324:LYS:HB3	1.92	0.41
4:UC:176:GLN:NE2	4:UC:177:VAL:HG23	2.36	0.41
3:UD:121:ARG:O	3:UD:125:GLU:HG2	2.20	0.41
3:UD:173:PRO:HD3	3:UD:203:ASP:OD1	2.20	0.41
3:UD:182:PRO:HB2	3:UD:388:MET:CE	2.51	0.41
3:UD:305:PRO:HA	3:UD:373:ALA:HB2	2.02	0.41
4:UE:66:VAL:HG12	4:UE:68:VAL:HG13	2.03	0.41
4:UE:166:LYS:O	4:UE:199:ASP:HB2	2.21	0.41
3:UF:11:GLN:HG3	39:UF:501:GTP:O5'	2.21	0.41
4:UG:176:GLN:NE2	4:UG:177:VAL:HG23	2.35	0.41
3:UH:131:GLN:HB3	3:UH:163:ILE:HD12	2.03	0.41
3:UH:350:LYS:HE3	4:UI:180:ALA:HA	2.02	0.41
4:UI:327:ASP:OD1	4:UI:328:VAL:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UJ:30:ILE:HG13	3:UJ:36:TYR:CD1	2.55	0.41
3:UJ:174:LYS:HG2	3:UJ:205:GLU:OE2	2.21	0.41
3:UJ:257:MET:O	3:UJ:259:PRO:HD3	2.21	0.41
4:UK:10:GLY:O	4:UK:14:VAL:HG13	2.19	0.41
4:UK:85:GLN:HG2	4:UK:86:LEU:HD22	2.03	0.41
4:UK:187:SER:O	4:UK:191:THR:HG23	2.20	0.41
3:UL:118:ASP:OD1	3:UL:121:ARG:NH1	2.54	0.41
4:VA:165:SER:C	4:VA:166:LYS:HD2	2.46	0.41
3:VB:313:VAL:HG23	3:VB:349:VAL:HA	2.01	0.41
3:VD:81:PHE:O	3:VD:84:ILE:HG22	2.20	0.41
3:VD:156:ARG:CZ	3:VD:164:MET:HE1	2.51	0.41
3:VD:306:ARG:O	3:VD:306:ARG:NE	2.47	0.41
3:VD:318:ARG:C	3:VD:321:MET:HE1	2.44	0.41
3:VF:52:ASN:CG	3:VF:62:ARG:HD3	2.46	0.41
3:VF:389:PHE:HZ	3:VF:405:GLU:OE1	2.04	0.41
4:VI:1:MET:O	4:VI:131:GLY:HA3	2.19	0.41
4:VI:207:GLU:HB2	4:VI:304:LYS:NZ	2.35	0.41
4:VI:220:GLU:O	4:VI:221:ARG:NE	2.50	0.41
3:VJ:249:ASP:O	3:VJ:253:LEU:HG	2.21	0.41
3:VJ:318:ARG:HA	3:VJ:354:CYS:HB3	2.01	0.41
4:VK:274:PRO:HG3	4:VK:374:ALA:HA	2.03	0.41
4:VK:425:LEU:O	4:VK:428:LEU:N	2.51	0.41
3:VL:58:LYS:HE2	3:WL:281:TYR:HE1	1.85	0.41
4:WA:75:VAL:HG22	4:WA:79:ARG:HH21	1.85	0.41
3:WB:77:ARG:O	3:WB:82:GLY:HA3	2.21	0.41
4:WC:67:PHE:O	4:WC:93:ILE:N	2.54	0.41
4:WC:246:GLY:HA3	4:WC:355:ILE:O	2.20	0.41
3:WD:223:GLY:HA2	3:WD:226:ASN:OD1	2.20	0.41
4:WE:263:PRO:O	4:WE:264:ARG:HB2	2.21	0.41
4:WE:348:PRO:HG2	3:WF:384:GLN:OE1	2.19	0.41
39:WE:501:GTP:N3	39:WE:501:GTP:O4'	2.53	0.41
3:WF:324:LYS:HE2	4:WG:222:PRO:CD	2.51	0.41
3:WF:378:PHE:HA	3:WF:381:ILE:HG22	2.03	0.41
4:WG:216:ASN:ND2	4:WG:275:VAL:O	2.54	0.41
3:WH:148:GLY:O	3:WH:152:ILE:HG12	2.21	0.41
4:WI:146:GLY:N	39:WI:501:GTP:O2B	2.51	0.41
4:WI:273:ALA:O	4:WI:275:VAL:N	2.50	0.41
3:WJ:271:ALA:HB2	3:WJ:365:ALA:HB3	2.02	0.41
4:WK:91:GLN:HG3	4:WK:121:ARG:HH21	1.84	0.41
3:WL:81:PHE:O	3:WL:84:ILE:HG22	2.20	0.41
3:WL:305:PRO:HB2	3:WL:310:TYR:HE1	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:XA:94:LEU:HD11	34:XA:98:ASN:HA	2.02	0.41
34:XC:39:ASP:OD1	34:XC:40:ASN:N	2.54	0.41
34:XC:72:LYS:NZ	35:XJ:62:ARG:HD2	2.36	0.41
34:XC:97:LYS:O	34:XC:98:ASN:HB2	2.20	0.41
34:XG:88:THR:HG21	34:XG:104:ARG:HH21	1.85	0.41
34:XG:178:PRO:HD2	34:XG:181:PHE:CD1	2.56	0.41
35:XI:54:THR:HG23	35:XI:57:ARG:HB3	2.02	0.41
35:XI:204:ASN:O	35:XI:208:LEU:HG	2.21	0.41
35:XK:115:ILE:HA	35:XK:118:MET:HE3	2.01	0.41
35:XK:209:ILE:O	35:XK:213:LEU:HG	2.21	0.41
36:Y:59:LEU:HD23	36:Y:59:LEU:HA	1.87	0.41
37:YA:116:LYS:CD	37:YA:117:TYR:H	2.33	0.41
37:YB:75:GLU:O	37:YB:78:LYS:N	2.52	0.41
37:YD:63:ARG:O	37:YD:67:ILE:HG23	2.20	0.41
37:YE:124:HIS:ND1	37:YE:124:HIS:O	2.54	0.41
37:YF:98:GLU:HA	37:YF:101:LYS:HD2	2.02	0.41
37:YF:131:ARG:HD2	37:YF:131:ARG:N	2.35	0.41
37:YH:82:HIS:O	37:YH:86:LEU:HG	2.21	0.41
37:YI:15:TYR:OH	37:YI:141:ILE:HG21	2.21	0.41
37:YI:15:TYR:O	37:YI:19:GLN:HG2	2.21	0.41
37:YI:93:THR:HB	37:YI:151:TRP:NE1	2.36	0.41
37:YK:117:TYR:CD1	37:YK:118:PRO:HA	2.56	0.41
37:YL:110:LEU:HD23	37:YL:140:LEU:HB2	2.03	0.41
37:YM:69:PHE:HA	37:YM:72:ILE:HD12	2.03	0.41
37:YN:86:LEU:HB3	37:YN:87:HIS:H	1.57	0.41
37:YR:15:TYR:HA	37:YR:18:PHE:CB	2.51	0.41
37:YR:146:ASP:HA	37:YR:149:LYS:HB3	2.03	0.41
37:YS:99:LYS:HG3	37:YS:100:CYS:N	2.34	0.41
37:YU:141:ILE:O	37:YU:145:LEU:HG	2.21	0.41
36:Z:300:ARG:NH1	36:Z:303:GLN:HB2	2.36	0.41
36:Z:305:ARG:HA	36:Z:308:LYS:CG	2.46	0.41
38:a:30:HIS:O	38:a:34:MET:HG2	2.21	0.41
1:A:227:ASP:O	1:A:231:ARG:N	2.45	0.41
1:A:261:GLU:O	1:A:265:GLU:HG2	2.21	0.41
1:A:312:GLN:NE2	1:A:313:ARG:HG3	2.36	0.41
2:A1:336:ARG:HH21	2:A1:337:LEU:HD21	1.86	0.41
2:A1:389:LEU:HD23	2:A1:389:LEU:HA	1.89	0.41
2:A2:95:LYS:HA	2:A2:98:LEU:HD12	2.03	0.41
2:A2:221:SER:O	2:A2:225:VAL:HG23	2.21	0.41
2:A2:245:ILE:HD11	17:I2:48:TYR:OH	2.21	0.41
2:A3:37:LEU:HA	2:A3:40:GLU:CD	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A3:95:LYS:HA	2:A3:98:LEU:HD12	2.03	0.41
2:A3:386:ASP:HA	2:A3:390:CYS:SG	2.61	0.41
3:AB:1:MET:HE1	3:AB:49:VAL:HA	2.03	0.41
3:AB:87:PRO:HA	3:AB:90:PHE:CD2	2.56	0.41
3:AB:270:PHE:H	3:AB:300:MET:HE1	1.86	0.41
3:AB:312:THR:OG1	3:AB:370:ASN:HB3	2.21	0.41
4:AC:135:PHE:HD2	4:AC:166:LYS:HG3	1.86	0.41
4:AC:235:VAL:HA	4:AC:238:ILE:HG12	2.01	0.41
4:AC:317:MET:HE1	4:AC:351:PHE:HB3	2.03	0.41
4:AC:402:ARG:HE	35:XH:233:PRO:HG2	1.85	0.41
3:AD:274:THR:HG21	3:AD:279:GLN:HG3	2.01	0.41
3:AD:398:TYR:HB3	3:AD:403:MET:HB2	2.02	0.41
4:AE:338:LYS:NZ	4:AE:339:ARG:H	2.18	0.41
3:AF:6:HIS:HE1	3:AF:8:GLN:HB2	1.86	0.41
3:AF:324:LYS:H	3:AF:324:LYS:HG2	1.71	0.41
4:AG:5:ILE:HD11	4:AG:129:CYS:SG	2.61	0.41
4:AG:104:ALA:HB3	4:AG:413:MET:HE3	2.02	0.41
4:AG:414:GLU:OE1	4:AG:414:GLU:N	2.54	0.41
4:AI:68:VAL:HG12	4:AI:93:ILE:HB	2.02	0.41
4:AI:118:VAL:HA	4:AI:121:ARG:HG2	2.01	0.41
4:AI:150:ALA:O	4:AI:153:LEU:HG	2.21	0.41
4:AI:224:TYR:HB3	4:AI:228:ASN:OD1	2.20	0.41
4:AI:399:TYR:CE1	4:AI:418:PHE:HB3	2.56	0.41
3:AJ:12:CYS:O	3:AJ:16:ILE:HG12	2.21	0.41
3:AJ:222:TYR:HA	3:AJ:225:LEU:HD13	2.03	0.41
3:AJ:374:ILE:HG22	3:AJ:378:PHE:CE2	2.56	0.41
4:AK:167:LEU:HB3	4:AK:169:PHE:CZ	2.55	0.41
4:AK:280:LYS:NZ	4:MK:88:HIS:CE1	2.89	0.41
4:AK:388:TRP:HB3	4:AK:425:LEU:HD11	2.02	0.41
4:AK:438:ASP:C	3:AL:391:ARG:HH12	2.28	0.41
3:AL:39:ASP:OD1	3:AL:39:ASP:N	2.54	0.41
3:AL:194:GLU:OE1	3:AL:195:ASN:ND2	2.54	0.41
3:AL:251:ARG:O	3:AL:255:VAL:HG22	2.20	0.41
3:AL:309:ARG:N	3:AL:372:THR:OG1	2.26	0.41
3:AL:337:ASN:HB2	3:AL:340:TYR:HB2	2.01	0.41
4:AM:35:GLN:HG2	4:AM:59:GLY:O	2.21	0.41
4:AM:174:ALA:HB3	4:AM:177:VAL:O	2.20	0.41
4:AM:298:PRO:HG2	26:N4:73:PHE:CD1	2.55	0.41
4:AM:402:ARG:HE	35:XM:233:PRO:HB2	1.86	0.41
1:B:322:GLU:O	1:B:325:GLN:HG3	2.21	0.41
1:B:328:GLN:O	1:B:332:ILE:HG12	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:347:GLN:OE1	1:B:351:LYS:HB3	2.21	0.41
5:B1:283:GLU:O	5:B1:287:LEU:HG	2.21	0.41
5:B1:312:LYS:O	5:B1:316:THR:HG23	2.21	0.41
5:B1:315:HIS:HD2	5:B2:201:LEU:HD12	1.86	0.41
5:B1:316:THR:CG2	5:B2:200:SER:H	2.34	0.41
5:B1:356:LEU:O	5:B1:359:THR:OG1	2.31	0.41
5:B2:63:ARG:O	5:B2:66:GLU:HG3	2.21	0.41
5:B2:188:GLY:O	5:B2:192:LEU:HD23	2.21	0.41
5:B2:230:GLU:O	5:B2:233:MET:HG3	2.21	0.41
5:B3:283:GLU:O	5:B3:287:LEU:HG	2.21	0.41
5:B4:176:HIS:HB3	10:E1:126:GLN:HE22	1.85	0.41
5:B4:235:ALA:O	5:B4:238:GLU:HG3	2.21	0.41
5:B5:47:ASN:HB2	7:C4:122:VAL:HG13	2.03	0.41
5:B6:45:LEU:HG	5:B7:352:MET:HE1	2.02	0.41
5:B6:118:THR:HA	8:D9:409:ARG:HH22	1.85	0.41
5:B6:379:CYS:O	5:B6:383:THR:HG23	2.21	0.41
5:B7:140:GLU:O	5:B7:144:ILE:HG13	2.20	0.41
5:B7:171:GLN:HG2	5:B7:172:LEU:N	2.36	0.41
5:B7:255:ASP:HA	5:B7:258:ARG:HG2	2.03	0.41
5:B8:403:LYS:HD3	5:B8:403:LYS:HA	1.92	0.41
3:BB:11:GLN:HG3	39:BB:501:GTP:PA	2.61	0.41
3:BB:113:VAL:HA	3:BB:116:VAL:HG22	2.03	0.41
3:BB:137:HIS:O	3:BB:168:SER:HA	2.21	0.41
4:BC:70:LEU:HD13	4:BC:95:GLY:HA3	2.02	0.41
4:BC:102:ASN:HB3	4:BC:105:ARG:HB2	2.01	0.41
3:BD:90:PHE:HB2	14:G4:305:ASN:OD1	2.21	0.41
3:BD:165:ASN:OD1	3:BD:166:THR:N	2.54	0.41
3:BD:324:LYS:HD2	4:BE:221:ARG:HA	2.03	0.41
3:BD:372:THR:CB	3:BD:375:GLN:HE22	2.33	0.41
4:BE:12:ALA:HB2	39:BE:501:GTP:H5"	2.03	0.41
4:BE:88:HIS:HE1	4:BE:90:GLU:CD	2.29	0.41
4:BE:287:SER:OG	4:BE:290:GLU:OE1	2.25	0.41
3:BF:324:LYS:HD3	4:BG:210:TYR:HE1	1.85	0.41
4:BG:317:MET:O	4:BG:353:VAL:HA	2.21	0.41
4:BG:406:HIS:HA	4:BG:409:VAL:HG22	2.03	0.41
3:BH:11:GLN:HG3	39:BH:501:GTP:PA	2.61	0.41
3:BH:80:PRO:HD3	14:G5:206:PHE:CZ	2.56	0.41
4:BI:346:TRP:N	4:BI:346:TRP:CD1	2.86	0.41
3:BJ:11:GLN:O	3:BJ:15:GLN:HB2	2.20	0.41
3:BJ:13:GLY:C	3:BJ:15:GLN:N	2.78	0.41
3:BJ:77:ARG:HA	3:BJ:77:ARG:HD2	1.90	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BJ:217:LEU:O	3:BJ:219:THR:N	2.52	0.41
3:BJ:245:GLN:NE2	39:BK:501:GTP:C5	2.89	0.41
3:BJ:322:SER:HB3	3:BJ:325:GLU:OE1	2.21	0.41
3:BJ:378:PHE:HA	3:BJ:381:ILE:HG22	2.03	0.41
4:BK:118:VAL:O	4:BK:122:ILE:HG23	2.20	0.41
4:BK:132:LEU:HD23	4:BK:132:LEU:O	2.21	0.41
4:BK:161:TYR:O	4:BK:166:LYS:NZ	2.41	0.41
4:BK:187:SER:O	4:BK:191:THR:HG23	2.21	0.41
4:BK:387:ALA:O	4:BK:391:LEU:HG	2.21	0.41
3:BL:172:SER:OG	3:BL:205:GLU:OE2	2.20	0.41
3:BL:174:LYS:HG2	3:BL:205:GLU:OE2	2.20	0.41
3:BL:216:LYS:HB3	3:BL:276:ARG:NH2	2.36	0.41
3:BL:238:THR:HG21	3:BL:318:ARG:NH1	2.35	0.41
3:BL:282:ARG:HE	3:BL:288:GLU:CD	2.28	0.41
3:BL:379:LYS:O	3:BL:382:SER:OG	2.18	0.41
3:BL:391:ARG:C	3:BL:392:LYS:HG3	2.46	0.41
4:BM:83:TYR:HB3	4:BM:86:LEU:HD12	2.03	0.41
4:BM:88:HIS:HB3	4:BM:91:GLN:CB	2.48	0.41
4:BM:224:TYR:CE2	39:BM:501:GTP:O6	2.73	0.41
7:C2:275:ARG:HD3	7:C2:276:ASN:O	2.21	0.41
7:C2:284:PHE:CE1	7:C3:401:ASP:HB2	2.56	0.41
7:C2:363:THR:O	7:C2:366:THR:OG1	2.36	0.41
7:C2:391:ALA:O	7:C2:395:VAL:HG13	2.20	0.41
7:C3:177:ILE:HD11	7:C3:322:ARG:HG3	2.03	0.41
7:C4:131:LYS:NZ	7:C5:430:THR:HG22	2.34	0.41
7:C4:162:HIS:NE2	7:C4:166:GLU:OE2	2.54	0.41
7:C4:164:LEU:O	7:C4:168:ILE:HG12	2.21	0.41
7:C4:284:PHE:O	7:C4:285:ARG:HD2	2.20	0.41
7:C6:94:TYR:HB2	8:D2:246:LYS:NZ	2.36	0.41
7:C6:328:LEU:O	7:C6:332:THR:OG1	2.37	0.41
7:C7:336:MET:SD	7:C7:337:TRP:N	2.94	0.41
7:C7:457:HIS:O	7:C7:461:VAL:HG23	2.21	0.41
7:C8:163:GLU:HA	7:C8:166:GLU:OE1	2.21	0.41
7:C8:201:HIS:ND1	7:C8:201:HIS:O	2.54	0.41
7:C8:249:SER:O	7:C8:253:GLU:OE1	2.39	0.41
7:C8:302:LYS:HA	7:C8:302:LYS:HD3	1.84	0.41
7:C8:447:SER:HA	10:E2:145:ARG:NH1	2.36	0.41
3:CB:20:PHE:CZ	3:CB:24:ILE:HD11	2.56	0.41
4:CC:46:ASP:HA	4:CC:50:ASN:HB3	2.03	0.41
4:CC:53:PHE:O	4:CC:64:ARG:NH1	2.54	0.41
3:CD:83:GLN:O	3:CD:86:ARG:NH2	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CD:145:SER:O	3:CD:149:THR:OG1	2.34	0.41
3:CD:290:THR:HG21	3:CD:329:GLN:HB3	2.01	0.41
3:CD:315:ALA:HB2	3:CD:367:PHE:HD1	1.86	0.41
4:CE:252:LEU:HD12	4:CE:253:THR:N	2.35	0.41
3:CF:2:ARG:NH2	4:CG:96:LYS:HB3	2.35	0.41
3:CF:11:GLN:HG3	39:CF:501:GTP:O5'	2.20	0.41
3:CF:32:PRO:C	3:CF:83:GLN:HE21	2.26	0.41
3:CF:139:LEU:N	3:CF:168:SER:OG	2.53	0.41
3:CF:329:GLN:O	3:CF:333:VAL:HG12	2.21	0.41
3:CF:404:ASP:OD1	3:CF:404:ASP:N	2.53	0.41
4:CG:4:CYS:SG	4:CG:133:GLN:HB2	2.61	0.41
4:CG:166:LYS:N	4:CG:199:ASP:OD2	2.54	0.41
4:CG:172:TYR:N	4:CG:204:VAL:O	2.41	0.41
4:CG:319:TYR:HA	4:CG:374:ALA:O	2.21	0.41
3:CH:28:HIS:HB2	3:CH:30:ILE:CD1	2.50	0.41
3:CH:205:GLU:HA	3:CH:208:TYR:CD2	2.56	0.41
3:CH:249:ASP:O	3:CH:253:LEU:HG	2.21	0.41
3:CH:401:GLU:OE1	3:CH:403:MET:HG2	2.20	0.41
4:CI:3:GLU:CD	4:CI:131:GLY:H	2.28	0.41
4:CI:8:HIS:CD2	4:CI:21:TRP:HH2	2.39	0.41
4:CI:39:ASP:OD1	4:CI:39:ASP:N	2.54	0.41
4:CI:213:CYS:O	4:CI:219:ILE:N	2.51	0.41
4:CI:297:GLU:CD	4:CI:299:ALA:H	2.29	0.41
4:CI:395:PHE:HA	4:CI:398:MET:CG	2.50	0.41
3:CJ:47:ILE:HG22	15:H5:224:PHE:HZ	1.86	0.41
3:CJ:101:TRP:CE3	3:CJ:187:LEU:HD13	2.56	0.41
3:CJ:360:GLY:HA3	13:G2:309:PRO:HB3	2.03	0.41
3:CJ:374:ILE:O	3:CJ:377:LEU:HB2	2.21	0.41
4:CK:170:ALA:O	4:CK:203:MET:HA	2.21	0.41
7:Ca:376:GLU:O	7:Ca:380:GLU:OE1	2.38	0.41
7:Ca:436:GLN:HA	7:Ca:439:ARG:HH11	1.86	0.41
7:Cb:199:LEU:HD21	7:Cb:219:LEU:HB2	2.03	0.41
7:Cb:275:ARG:HD3	7:Cb:276:ASN:O	2.21	0.41
7:Cb:378:THR:O	7:Cb:381:SER:OG	2.30	0.41
7:Cb:405:ARG:HH22	10:E2:5:ARG:NH1	2.19	0.41
7:Cc:146:LEU:HD23	7:Cc:146:LEU:HA	1.92	0.41
7:Cc:153:LEU:HB2	7:Cc:265:LEU:HD21	2.03	0.41
7:Cc:288:GLU:OE1	7:Cc:288:GLU:N	2.54	0.41
7:Cc:389:LYS:NZ	7:Cc:430:THR:HG22	2.34	0.41
7:Cd:147:GLY:O	7:Cd:150:VAL:HG22	2.20	0.41
7:Cd:172:ASN:O	7:Cd:175:THR:OG1	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Cd:177:ILE:HG13	7:Cd:178:LYS:N	2.36	0.41
7:Cd:306:ASP:O	7:Cd:310:ARG:HG3	2.20	0.41
6:D:125:ALA:O	6:D:129:ILE:HG12	2.21	0.41
8:D2:169:ARG:NH1	8:D2:170:ASP:O	2.54	0.41
8:D2:332:GLN:O	8:D2:336:ILE:HG13	2.20	0.41
8:D4:296:GLN:O	8:D4:300:VAL:HG23	2.21	0.41
8:D4:447:GLN:C	3:LJ:37:HIS:HD1	2.28	0.41
8:D5:383:GLU:HA	8:D5:386:MET:HE2	2.03	0.41
8:D5:410:MET:O	8:D5:413:GLU:HG3	2.21	0.41
8:D6:370:ARG:NE	8:D6:375:PHE:HE1	2.18	0.41
8:D6:376:ARG:NH1	8:D7:98:ASP:O	2.52	0.41
8:D7:139:GLN:HA	8:D7:142:LEU:HD12	2.01	0.41
8:D8:244:SER:O	8:D8:246:LYS:N	2.54	0.41
8:D8:363:ARG:HE	8:D8:368:LEU:HA	1.84	0.41
8:D8:410:MET:SD	8:D8:411:SER:N	2.94	0.41
4:DA:88:HIS:HE1	4:DA:90:GLU:CD	2.29	0.41
4:DA:175:PRO:HB3	4:DA:390:ARG:HD2	2.03	0.41
4:DA:202:PHE:CD1	4:DA:268:PRO:HD2	2.56	0.41
4:DA:210:TYR:CE1	4:DA:227:LEU:HD11	2.52	0.41
4:DA:429:GLU:HA	4:DA:429:GLU:OE2	2.20	0.41
3:DB:19:LYS:NZ	3:DB:223:GLY:O	2.54	0.41
3:DB:91:VAL:HG11	3:DB:116:VAL:HG12	2.03	0.41
3:DB:199:THR:N	3:DB:264:HIS:O	2.50	0.41
3:DB:324:LYS:HD3	4:DC:210:TYR:CE1	2.56	0.41
3:DB:325:GLU:O	3:DB:329:GLN:HG2	2.20	0.41
4:DC:105:ARG:O	4:DC:109:THR:OG1	2.29	0.41
4:DC:140:SER:HA	4:DC:170:ALA:HB1	2.03	0.41
3:DD:36:TYR:O	15:H3:317:HIS:CE1	2.74	0.41
3:DD:58:LYS:NZ	3:ED:280:GLN:OE1	2.54	0.41
3:DD:194:GLU:OE1	3:DD:195:ASN:ND2	2.54	0.41
3:DD:262:ARG:HD2	3:DD:421:GLU:CD	2.45	0.41
3:DD:309:ARG:N	3:DD:372:THR:OG1	2.44	0.41
3:DD:317:PHE:HB3	3:DD:321:MET:CE	2.51	0.41
4:DE:1:MET:O	4:DE:133:GLN:NE2	2.47	0.41
4:DE:3:GLU:OE2	4:DE:130:THR:N	2.47	0.41
4:DG:69:ASP:HB3	4:DG:75:VAL:HG11	2.03	0.41
4:DG:119:LEU:HD23	4:DG:122:ILE:HD11	2.02	0.41
4:DG:245:ASP:HA	4:DG:249:ASN:HD21	1.86	0.41
4:DG:260:VAL:HG23	4:DG:265:ILE:O	2.21	0.41
4:DG:425:LEU:O	4:DG:428:LEU:N	2.53	0.41
3:DH:3:GLU:OE2	3:DH:129:CYS:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DH:214:THR:HG21	3:DH:273:LEU:HB3	2.01	0.41
3:DH:379:LYS:O	3:DH:382:SER:OG	2.20	0.41
4:DI:176:GLN:NE2	4:DI:177:VAL:HG23	2.36	0.41
3:DJ:151:LEU:O	3:DJ:155:ILE:HG23	2.21	0.41
3:DJ:251:ARG:O	3:DJ:255:VAL:HG22	2.21	0.41
3:DJ:258:VAL:HG22	3:DJ:266:PHE:HZ	1.86	0.41
4:DK:12:ALA:O	39:DK:501:GTP:C2	2.74	0.41
4:DK:72:PRO:HG3	4:DK:96:LYS:HD2	2.03	0.41
4:DK:260:VAL:HG23	4:DK:265:ILE:O	2.21	0.41
3:DL:6:HIS:HD1	3:DL:63:ALA:HB1	1.86	0.41
3:DL:31:ASP:OD2	3:DL:33:THR:OG1	2.39	0.41
3:DL:131:GLN:HB3	3:DL:163:ILE:HD12	2.03	0.41
3:DL:378:PHE:CE1	3:DL:419:VAL:HG22	2.56	0.41
9:E:392:THR:N	9:E:393:PRO:HD2	2.35	0.41
9:E:785:GLU:HA	9:E:788:PHE:CD2	2.56	0.41
10:E3:105:LEU:HD21	10:E3:109:TYR:CD1	2.56	0.41
10:E3:138:GLN:HB3	10:E3:140:ARG:NH1	2.36	0.41
10:E4:79:LEU:N	10:E4:80:PRO:HD2	2.34	0.41
4:EA:280:LYS:HA	4:EA:280:LYS:HD2	1.74	0.41
4:EA:371:VAL:HG11	4:EA:374:ALA:HB2	2.02	0.41
3:EB:65:LEU:HD21	3:EB:90:PHE:CD1	2.50	0.41
3:EB:251:ARG:O	3:EB:255:VAL:HG22	2.21	0.41
3:EB:261:PRO:O	3:EB:264:HIS:NE2	2.54	0.41
3:EB:292:GLN:HA	3:EB:295:ASP:OD2	2.21	0.41
3:EB:318:ARG:HB3	3:EB:364:SER:OG	2.21	0.41
4:EC:182:VAL:HG13	4:EC:408:TYR:OH	2.21	0.41
4:EC:346:TRP:N	4:EC:346:TRP:CD1	2.88	0.41
4:EC:346:TRP:HH2	4:EC:435:VAL:HA	1.85	0.41
3:ED:6:HIS:HA	3:ED:134:GLN:OE1	2.20	0.41
3:ED:47:ILE:HG21	3:ED:59:TYR:CE1	2.56	0.41
4:EE:256:GLN:HE22	3:EF:397:TRP:HE1	1.68	0.41
3:EF:246:LEU:HD22	3:EF:354:CYS:HA	2.03	0.41
3:EF:376:GLU:H	3:EF:376:GLU:CD	2.25	0.41
4:EG:90:GLU:HG2	4:EG:121:ARG:NH2	2.36	0.41
4:EG:209:ILE:HG21	4:EG:227:LEU:HG	2.03	0.41
4:EG:246:GLY:HA3	4:EG:356:ASN:HA	2.02	0.41
4:EG:255:PHE:O	4:EG:259:LEU:HB2	2.21	0.41
4:EG:319:TYR:HA	4:EG:374:ALA:O	2.21	0.41
4:EG:346:TRP:CD1	4:EG:346:TRP:N	2.89	0.41
4:EG:389:ALA:HA	4:EG:392:ASP:OD2	2.21	0.41
3:EH:39:ASP:OD1	3:EH:39:ASP:N	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EH:138:SER:HB3	39:EH:501:GTP:H5"	2.03	0.41
3:EH:376:GLU:H	3:EH:376:GLU:CD	2.23	0.41
3:EH:419:VAL:HG12	3:EH:423:GLN:NE2	2.33	0.41
4:EI:216:ASN:ND2	4:EI:275:VAL:HG23	2.36	0.41
4:EI:263:PRO:HB2	4:EI:264:ARG:CZ	2.51	0.41
4:EI:280:LYS:O	4:EI:284:GLU:HB2	2.21	0.41
4:EI:326:LYS:HD2	3:EJ:208:TYR:CD2	2.56	0.41
3:EJ:136:THR:HA	3:EJ:167:PHE:HB2	2.03	0.41
3:EJ:198:GLU:HA	3:EJ:266:PHE:HE2	1.85	0.41
3:EJ:217:LEU:O	3:EJ:219:THR:N	2.49	0.41
3:EJ:229:VAL:HB	3:EJ:233:MET:HE1	2.03	0.41
3:EL:1:MET:SD	3:EL:2:ARG:N	2.94	0.41
9:F:286:LYS:NZ	4:II:285:GLN:HA	2.35	0.41
11:F1:189:GLN:O	11:F1:193:GLU:OE1	2.39	0.41
11:F1:323:HIS:HA	11:F1:326:GLU:OE1	2.21	0.41
11:F1:353:VAL:HG11	11:F2:95:TRP:CZ2	2.56	0.41
11:F1:416:LEU:O	11:F1:420:VAL:HG23	2.21	0.41
11:F1:450:ARG:HH22	11:F2:102:GLN:HE21	1.68	0.41
11:F2:101:LEU:HD22	11:F2:104:ARG:NH1	2.35	0.41
11:F3:103:ILE:O	11:F3:107:GLU:OE1	2.39	0.41
11:F4:89:ARG:HH12	14:G6:746:GLU:HG3	1.85	0.41
11:F4:134:MET:O	11:F4:138:THR:HG23	2.20	0.41
11:F4:315:ILE:HG23	11:F4:318:ARG:NH2	2.36	0.41
11:F5:146:LEU:CD2	11:F5:264:ASP:HB3	2.51	0.41
11:F5:223:LYS:HA	11:F5:226:GLN:NE2	2.36	0.41
11:F5:300:SER:O	11:F5:304:ILE:HG12	2.21	0.41
11:F6:155:GLU:O	11:F6:159:GLU:OE1	2.38	0.41
11:F6:213:LYS:O	11:F6:217:ARG:HG2	2.21	0.41
11:F6:277:ILE:HD13	11:F7:390:LYS:NZ	2.36	0.41
11:F6:301:ASN:HA	11:F6:304:ILE:HG12	2.03	0.41
11:F6:356:LYS:O	11:F6:360:GLN:OE1	2.39	0.41
11:F7:271:ARG:HG3	11:Fi:323:HIS:HA	2.03	0.41
11:F7:371:ALA:O	11:F7:375:ILE:HG23	2.21	0.41
11:F7:431:LYS:HA	11:F7:434:LEU:HD12	2.02	0.41
11:F8:443:LEU:HA	11:F8:446:MET:HE2	2.01	0.41
11:F9:345:ALA:O	11:F9:346:ARG:C	2.63	0.41
11:F9:371:ALA:O	11:F9:375:ILE:HG23	2.21	0.41
4:FA:12:ALA:HB1	39:FA:501:GTP:C2	2.56	0.41
4:FA:16:ILE:HA	4:FA:19:ALA:HB3	2.03	0.41
4:FA:175:PRO:O	4:FA:390:ARG:HD3	2.21	0.41
4:FA:390:ARG:HA	4:FA:393:HIS:CD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FB:20:PHE:CD1	3:FB:233:MET:HG3	2.56	0.41
3:FB:285:THR:O	3:FB:288:GLU:HG3	2.20	0.41
3:FD:224:ASP:O	3:FD:228:LEU:HG	2.21	0.41
3:FD:309:ARG:HH22	3:FD:344:TRP:HZ3	1.69	0.41
4:FE:119:LEU:HA	4:FE:122:ILE:HG12	2.02	0.41
4:FE:252:LEU:HD12	4:FE:253:THR:N	2.36	0.41
4:FE:255:PHE:O	4:FE:259:LEU:HB2	2.21	0.41
4:FE:323:VAL:HG22	4:FE:373:ARG:HG2	2.02	0.41
3:FF:324:LYS:HE2	4:FG:222:PRO:N	2.35	0.41
4:FG:346:TRP:O	3:FH:388:MET:HE1	2.21	0.41
3:FH:375:GLN:HA	3:FH:378:PHE:CE1	2.56	0.41
4:FI:346:TRP:HE1	3:FJ:391:ARG:NH2	2.19	0.41
4:FI:386:GLU:HA	4:FI:389:ALA:HB3	2.02	0.41
4:FI:418:PHE:O	4:FI:422:ARG:NH2	2.54	0.41
3:FJ:269:GLY:O	3:FJ:367:PHE:N	2.41	0.41
4:FK:1:MET:HE1	4:FK:51:THR:HB	2.03	0.41
4:FK:142:GLY:HA2	4:FK:183:GLU:HG2	2.03	0.41
4:FK:297:GLU:CD	4:FK:299:ALA:H	2.28	0.41
3:FL:187:LEU:HD21	3:FL:408:PHE:CE1	2.55	0.41
11:Fa:376:MET:O	11:Fa:379:GLU:HG3	2.20	0.41
11:Fa:390:LYS:HZ2	11:Fb:279:PHE:HZ	1.69	0.41
11:Fa:409:ARG:CZ	11:Fa:413:GLN:HB3	2.50	0.41
11:Fa:415:ARG:NH2	11:Fb:141:ASN:OD1	2.54	0.41
11:Fa:435:ARG:NH1	11:Fa:439:ASP:HB2	2.35	0.41
11:Fb:124:MET:SD	11:Fb:125:GLN:HG3	2.60	0.41
11:Fc:123:ILE:HG23	11:Fc:127:LYS:NZ	2.36	0.41
11:Fc:296:TRP:O	11:Fc:299:PHE:N	2.53	0.41
11:Fc:312:ALA:HB1	11:Fc:316:ARG:HH12	1.86	0.41
11:Fc:443:LEU:HA	11:Fc:446:MET:HE2	2.02	0.41
11:Fe:201:ARG:CZ	11:Fe:207:VAL:H	2.33	0.41
11:Fe:308:GLN:HA	11:Fe:311:ARG:HD3	2.02	0.41
11:Ff:87:PHE:CD1	11:Fg:206:LEU:HB2	2.56	0.41
11:Ff:151:PHE:O	11:Ff:155:GLU:HG2	2.21	0.41
11:Ff:158:TYR:O	11:Ff:162:ARG:NE	2.40	0.41
11:Ff:413:GLN:O	11:Ff:417:VAL:HG23	2.20	0.41
11:Fg:161:ASP:O	11:Fg:165:THR:HG23	2.21	0.41
11:Fj:162:ARG:HH22	12:G:268:ARG:NH2	2.19	0.41
11:Fj:167:ASN:HA	11:Fj:170:MET:HE2	2.02	0.41
11:Fk:148:ASP:OD1	11:Fk:152:TRP:HD1	2.03	0.41
11:Fk:148:ASP:N	11:Fk:151:PHE:HE1	2.18	0.41
11:Fk:437:THR:O	11:Fk:441:LEU:HD23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Fm:107:GLU:OE1	11:Fm:110:ARG:NH1	2.54	0.41
11:Fm:193:GLU:HA	11:Fm:196:TYR:HD2	1.84	0.41
11:Fm:196:TYR:O	11:Fm:200:LYS:HG3	2.21	0.41
11:Fm:217:ARG:O	11:Fm:221:LEU:HG	2.21	0.41
11:Fm:226:GLN:OE1	11:Fm:230:ARG:NH2	2.52	0.41
12:G:46:LYS:HB3	12:G:46:LYS:HE3	1.95	0.41
12:G:152:LYS:HB2	3:GL:32:PRO:HG2	2.01	0.41
12:G:373:ALA:O	12:G:377:ARG:HD3	2.21	0.41
12:G:397:ARG:NH1	4:GC:370:LYS:HB2	2.25	0.41
13:G1:112:GLU:N	13:G1:112:GLU:OE1	2.54	0.41
13:G1:143:ILE:O	13:G1:145:GLN:NE2	2.54	0.41
13:G1:168:LEU:HD12	13:G1:168:LEU:O	2.20	0.41
13:G2:98:LYS:HD3	13:G2:123:TYR:CE2	2.54	0.41
13:G3:33:TYR:HE2	28:O3:17:THR:HB	1.86	0.41
14:G4:142:ASN:OD1	14:G4:143:ASP:N	2.53	0.41
14:G4:232:PHE:CE2	14:G4:353:LEU:HB3	2.56	0.41
14:G4:421:PHE:O	14:G4:425:ASP:HB2	2.21	0.41
14:G4:465:VAL:HG12	14:G4:480:PHE:CD1	2.56	0.41
14:G5:221:ARG:HH22	14:G5:258:GLY:N	2.19	0.41
14:G5:575:LYS:C	14:G5:734:ARG:HD2	2.46	0.41
14:G6:232:PHE:CD2	14:G6:356:CYS:HB3	2.55	0.41
14:G6:367:LYS:HA	14:G6:367:LYS:HD3	1.61	0.41
14:G6:555:GLU:O	14:G6:556:LYS:HE2	2.20	0.41
4:GA:47:ASP:O	4:GA:49:PHE:N	2.54	0.41
4:GA:214:ARG:NH1	4:GA:215:ARG:HB2	2.36	0.41
4:GA:368:LEU:HD23	4:GA:368:LEU:H	1.86	0.41
4:GA:399:TYR:CE1	4:GA:422:ARG:NH2	2.88	0.41
3:GB:312:THR:OG1	3:GB:370:ASN:HB3	2.21	0.41
3:GB:341:PHE:HD1	3:GB:348:ASN:HD21	1.68	0.41
4:GC:75:VAL:HG23	4:GC:92:LEU:HD12	2.02	0.41
4:GC:115:VAL:O	4:GC:119:LEU:HG	2.20	0.41
4:GC:149:PHE:O	4:GC:152:LEU:HG	2.21	0.41
4:GC:163:LYS:HA	4:GC:163:LYS:HD3	1.73	0.41
4:GC:183:GLU:N	4:GC:184:PRO:HD2	2.35	0.41
4:GC:265:ILE:HA	4:GC:267:PHE:CE2	2.56	0.41
3:GD:36:TYR:CZ	3:GD:38:GLY:HA2	2.56	0.41
3:GD:49:VAL:C	3:GD:62:ARG:HH21	2.29	0.41
3:GD:318:ARG:C	3:GD:321:MET:HE1	2.46	0.41
4:GE:318:LEU:O	4:GE:375:VAL:HA	2.21	0.41
4:GE:405:VAL:O	4:GE:409:VAL:HG22	2.21	0.41
3:GF:2:ARG:HA	3:GF:129:CYS:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GF:40:SER:HB2	3:GF:43:GLN:CD	2.46	0.41
4:GG:88:HIS:HD2	4:HG:284:GLU:OE2	2.04	0.41
4:GG:261:PRO:HA	3:GH:394:PHE:CE1	2.56	0.41
4:GG:399:TYR:OH	4:GG:415:GLU:HB2	2.21	0.41
3:GH:305:PRO:HA	3:GH:373:ALA:HB2	2.02	0.41
3:GH:309:ARG:NH2	3:GH:426:GLN:O	2.54	0.41
4:GI:21:TRP:HD1	4:GI:53:PHE:HE1	1.66	0.41
4:GI:22:GLU:HG2	4:GI:83:TYR:HE2	1.86	0.41
3:GJ:52:ASN:O	3:GJ:60:VAL:N	2.53	0.41
3:GJ:371:SER:OG	3:GJ:372:THR:N	2.54	0.41
4:GK:93:ILE:HD13	4:GK:93:ILE:HA	1.97	0.41
4:GK:105:ARG:HG2	4:GK:109:THR:HG21	2.02	0.41
4:GK:154:MET:HA	4:GK:157:LEU:HG	2.02	0.41
4:GK:239:THR:HA	4:GK:242:LEU:HD13	2.03	0.41
4:GK:262:TYR:CE1	3:GL:393:ALA:HA	2.56	0.41
3:GL:12:CYS:O	3:GL:16:ILE:HG12	2.20	0.41
3:GL:13:GLY:HA2	3:GL:16:ILE:HB	2.02	0.41
3:GL:139:LEU:N	3:GL:168:SER:OG	2.53	0.41
3:GL:150:LEU:O	3:GL:154:LYS:HG2	2.21	0.41
3:GL:208:TYR:CE1	3:GL:225:LEU:HD11	2.56	0.41
15:H2:292:MET:SD	15:H2:293:GLN:NE2	2.94	0.41
15:H4:16:TYR:O	15:H4:35:TYR:HE2	2.04	0.41
4:HA:216:ASN:OD1	4:HA:217:LEU:N	2.53	0.41
4:HA:430:LYS:HA	4:HA:433:GLU:OE1	2.21	0.41
3:HB:139:LEU:HD11	3:HB:171:PRO:HD2	2.02	0.41
4:HC:21:TRP:HD1	4:HC:67:PHE:HZ	1.69	0.41
4:HC:114:ILE:O	4:HC:118:VAL:HG23	2.21	0.41
4:HC:138:PHE:CD1	4:HC:169:PHE:HB2	2.56	0.41
4:HC:317:MET:HB2	4:HC:375:VAL:HG21	2.02	0.41
4:HC:356:ASN:OD1	4:HC:358:GLN:HB3	2.21	0.41
3:HD:132:GLY:CA	3:HD:163:ILE:H	2.33	0.41
3:HD:215:LEU:HD11	3:HD:228:LEU:HD11	2.02	0.41
3:HD:228:LEU:O	3:HD:232:THR:HG23	2.21	0.41
3:HD:239:CYS:SG	3:HD:316:VAL:HG11	2.61	0.41
4:HE:174:ALA:HB3	4:HE:177:VAL:O	2.21	0.41
3:HF:50:TYR:HE2	3:HF:241:ARG:NH2	2.19	0.41
3:HF:213:ARG:NE	3:HF:297:LYS:HB3	2.35	0.41
3:HF:325:GLU:HA	3:HF:328:GLU:HG2	2.03	0.41
4:HG:178:SER:OG	4:HG:180:ALA:O	2.39	0.41
3:HH:132:GLY:HA2	3:HH:162:ARG:HB3	2.03	0.41
3:HH:188:SER:O	3:HH:192:LEU:HG	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HI:108:TYR:O	4:HI:112:LYS:NZ	2.32	0.41
4:HI:224:TYR:HB3	4:HI:228:ASN:ND2	2.36	0.41
4:HI:281:ALA:HB3	4:HI:370:LYS:HZ3	1.86	0.41
4:HI:295:CYS:HB2	4:HI:377:MET:HG2	2.02	0.41
4:HI:296:PHE:HE2	4:HI:335:ILE:HG21	1.86	0.41
4:HI:311:LYS:NZ	4:HI:343:PHE:O	2.52	0.41
4:HI:331:ALA:O	4:HI:335:ILE:HG12	2.21	0.41
3:HJ:40:SER:HB2	3:HJ:43:GLN:CD	2.45	0.41
3:HJ:183:TYR:OH	3:HJ:388:MET:HB2	2.21	0.41
3:HJ:266:PHE:HB3	3:HJ:368:ILE:HD11	2.02	0.41
3:HJ:318:ARG:HG3	3:HJ:354:CYS:SG	2.61	0.41
4:HK:152:LEU:HD12	4:HK:153:LEU:N	2.36	0.41
4:HK:229:ARG:HE	4:HK:368:LEU:HD22	1.85	0.41
4:HK:408:TYR:CD2	4:HK:418:PHE:HZ	2.39	0.41
3:HL:28:HIS:O	3:HL:36:TYR:HE1	2.03	0.41
3:HL:54:ALA:HA	3:IL:283:ALA:HB2	2.03	0.41
3:HL:68:LEU:HA	3:HL:93:GLY:H	1.84	0.41
3:HL:156:ARG:CZ	3:HL:164:MET:HE3	2.51	0.41
3:HL:223:GLY:HA2	3:HL:226:ASN:ND2	2.36	0.41
3:HL:318:ARG:HB3	3:HL:364:SER:OG	2.20	0.41
17:I2:57:LEU:HD22	17:I2:69:PHE:HE1	1.84	0.41
4:IA:8:HIS:CE1	4:IA:21:TRP:CH2	3.09	0.41
4:IA:279:GLU:O	4:IA:282:TYR:HB3	2.20	0.41
3:IB:87:PRO:HA	3:IB:90:PHE:CD2	2.55	0.41
3:IB:88:ASP:HB2	4:JA:280:LYS:NZ	2.36	0.41
3:IB:169:VAL:HA	3:IB:202:ILE:HB	2.02	0.41
3:IB:189:VAL:HA	3:IB:192:LEU:HD12	2.03	0.41
3:IB:324:LYS:HE3	3:IB:324:LYS:HB3	1.87	0.41
4:IC:145:THR:HG1	39:IC:501:GTP:PB	2.43	0.41
4:IC:182:VAL:HA	4:IC:185:TYR:CD2	2.52	0.41
4:IC:311:LYS:HD3	4:IC:344:VAL:HA	2.03	0.41
3:ID:2:ARG:HA	3:ID:129:CYS:O	2.20	0.41
3:ID:20:PHE:CZ	3:ID:24:ILE:HD11	2.56	0.41
3:ID:47:ILE:HG21	3:ID:59:TYR:CE2	2.55	0.41
3:ID:136:THR:HA	3:ID:167:PHE:HB2	2.02	0.41
3:ID:228:LEU:O	3:ID:232:THR:HG23	2.20	0.41
3:ID:239:CYS:SG	3:ID:316:VAL:HG11	2.61	0.41
3:ID:318:ARG:HG3	3:ID:354:CYS:SG	2.60	0.41
4:IE:257:THR:HA	3:IF:397:TRP:CZ2	2.56	0.41
4:IE:269:LEU:N	4:IE:379:SER:O	2.31	0.41
3:IF:26:ASP:OD1	3:IF:27:GLU:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IF:119:VAL:O	3:IF:122:LYS:HB2	2.20	0.41
3:IF:330:MET:HA	3:IF:333:VAL:HG22	2.02	0.41
3:IF:372:THR:HG21	3:IF:426:GLN:HB2	2.03	0.41
4:IG:7:ILE:N	4:IG:136:LEU:O	2.35	0.41
4:IG:119:LEU:HA	4:IG:122:ILE:HG12	2.03	0.41
4:IG:143:GLY:O	4:IG:147:SER:OG	2.32	0.41
4:IG:153:LEU:HD12	4:IG:154:MET:N	2.36	0.41
4:IG:206:ASN:OD1	4:IG:206:ASN:N	2.52	0.41
3:IH:41:ASP:O	3:IH:45:GLU:N	2.54	0.41
3:IH:46:ARG:O	3:IH:49:VAL:HG22	2.21	0.41
3:IH:322:SER:OG	3:IH:323:MET:SD	2.79	0.41
4:II:66:VAL:HG22	4:II:91:GLN:HG3	2.03	0.41
4:II:145:THR:HG23	39:II:501:GTP:O3B	2.21	0.41
4:II:246:GLY:HA2	4:II:357:TYR:CD2	2.56	0.41
4:II:368:LEU:HD23	4:II:368:LEU:H	1.86	0.41
3:IJ:46:ARG:HA	3:IJ:46:ARG:HD3	1.91	0.41
3:IJ:148:GLY:O	3:IJ:152:ILE:HG12	2.21	0.41
3:IJ:320:ARG:O	3:IJ:321:MET:HE2	2.21	0.41
4:IK:211:ASP:O	4:IK:214:ARG:NH1	2.54	0.41
4:IK:244:PHE:HD2	4:IK:358:GLN:HB2	1.85	0.41
4:IK:318:LEU:O	4:IK:375:VAL:HA	2.20	0.41
4:IK:320:ARG:HG2	4:IK:358:GLN:O	2.21	0.41
4:IK:321:GLY:HA3	4:IK:372:GLN:O	2.21	0.41
4:IK:356:ASN:OD1	4:IK:358:GLN:HB3	2.21	0.41
3:IL:19:LYS:NZ	3:IL:223:GLY:O	2.54	0.41
3:IL:31:ASP:OD1	3:IL:31:ASP:N	2.53	0.41
3:IL:174:LYS:HG3	3:IL:175:VAL:HG12	2.03	0.41
4:IM:287:SER:OG	4:IM:290:GLU:OE1	2.30	0.41
4:IM:420:GLU:HA	4:IM:423:GLU:OE2	2.20	0.41
18:J:167:SER:HB2	4:KI:225:THR:HG22	2.03	0.41
19:J1:111:ARG:HB3	19:J1:148:PHE:CE2	2.56	0.41
19:J1:176:PRO:O	19:J1:180:GLU:N	2.41	0.41
19:J2:133:THR:O	19:J2:137:THR:HG23	2.21	0.41
19:J3:121:MET:HA	19:J3:126:MET:H	1.86	0.41
19:J3:133:THR:O	19:J3:137:THR:HG23	2.21	0.41
19:J3:146:ASN:HA	19:J3:149:TRP:HD1	1.85	0.41
19:J3:170:SER:CB	19:J3:175:ILE:HG12	2.51	0.41
4:JA:213:CYS:O	4:JA:218:ASP:N	2.54	0.41
4:JA:235:VAL:HA	4:JA:238:ILE:HG12	2.02	0.41
4:JA:263:PRO:HB2	4:JA:264:ARG:NH1	2.36	0.41
3:JB:32:PRO:C	3:JB:83:GLN:HE21	2.27	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JB:41:ASP:OD1	3:JB:41:ASP:N	2.53	0.41
3:JB:47:ILE:HG21	3:JB:59:TYR:CZ	2.56	0.41
3:JB:132:GLY:HA3	3:JB:163:ILE:H	1.86	0.41
4:JC:79:ARG:HH22	4:JC:94:THR:HB	1.86	0.41
4:JC:102:ASN:OD1	4:JC:104:ALA:N	2.52	0.41
4:JC:226:ASN:O	4:JC:230:LEU:HG	2.21	0.41
4:JC:319:TYR:N	4:JC:354:GLY:O	2.54	0.41
3:JD:5:VAL:HG23	3:JD:130:LEU:HD21	2.02	0.41
3:JD:12:CYS:SG	39:JD:501:GTP:H5'	2.61	0.41
3:JD:390:ARG:NH1	3:JD:391:ARG:HE	2.18	0.41
4:JE:8:HIS:CD2	4:JE:17:GLY:HA3	2.56	0.41
4:JE:90:GLU:OE1	4:JE:90:GLU:N	2.51	0.41
4:JE:172:TYR:CD1	4:JE:173:PRO:HD2	2.56	0.41
4:JE:263:PRO:O	4:JE:264:ARG:HB2	2.21	0.41
4:JE:286:LEU:HD11	4:JE:373:ARG:H	1.86	0.41
4:JE:329:ASN:HA	4:JE:332:ILE:HG12	2.03	0.41
3:JF:52:ASN:OD1	3:JF:62:ARG:NH1	2.53	0.41
3:JF:384:GLN:O	3:JF:388:MET:HG2	2.20	0.41
4:JG:1:MET:HE3	4:JG:50:ASN:ND2	2.35	0.41
4:JG:42:ILE:HG12	4:JG:55:GLU:CD	2.45	0.41
4:JG:145:THR:HG1	39:JG:501:GTP:PB	2.44	0.41
4:JG:163:LYS:HA	4:JG:163:LYS:HD3	1.75	0.41
4:JG:260:VAL:O	3:JH:397:TRP:HH2	2.03	0.41
3:JH:1:MET:HE1	3:JH:49:VAL:HA	2.01	0.41
3:JH:6:HIS:HB3	3:JH:21:TRP:HZ2	1.85	0.41
3:JH:106:TYR:HB2	3:JH:401:GLU:OE2	2.20	0.41
3:JH:312:THR:OG1	3:JH:370:ASN:HB3	2.21	0.41
4:JI:251:ASP:HB3	4:JI:254:GLU:OE1	2.20	0.41
3:JL:109:GLY:O	3:JL:113:VAL:HG13	2.20	0.41
3:JL:384:GLN:O	3:JL:388:MET:HG2	2.21	0.41
20:K:108:LEU:HD23	20:K:158:LEU:HD11	2.03	0.41
20:K:123:MET:HG2	20:K:125:ARG:H	1.86	0.41
20:K:245:LYS:HE2	20:K:245:LYS:HB3	1.75	0.41
21:K1:362:HIS:CD2	4:KA:412:GLY:HA2	2.56	0.41
21:K2:425:HIS:HA	21:K2:428:HIS:ND1	2.36	0.41
21:K2:461:VAL:HG23	21:K2:464:ARG:HH21	1.85	0.41
21:K3:154:LEU:HA	21:K3:157:GLN:OE1	2.21	0.41
21:K3:204:LYS:HA	21:K3:204:LYS:HD3	1.86	0.41
21:K3:309:ASP:O	21:K3:312:THR:OG1	2.36	0.41
21:K3:424:ARG:C	21:K3:428:HIS:HD1	2.27	0.41
21:K4:244:ALA:O	21:K4:245:VAL:HB	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:K4:266:ASP:O	21:K4:268:THR:N	2.54	0.41
21:K4:353:THR:O	21:K4:356:LEU:N	2.54	0.41
21:K4:469:HIS:NE2	3:KL:400:GLY:HA2	2.35	0.41
4:KA:88:HIS:CE1	4:LA:280:LYS:HZ3	2.39	0.41
4:KA:196:GLU:HG2	4:KA:197:HIS:CE1	2.56	0.41
4:KA:329:ASN:OD1	4:KA:330:ALA:N	2.53	0.41
3:KB:178:THR:HB	3:KB:181:GLU:HB2	2.02	0.41
3:KB:372:THR:HB	3:KB:375:GLN:HE22	1.84	0.41
3:KB:414:ASN:O	3:KB:418:LEU:HG	2.20	0.41
4:KC:49:PHE:O	4:KC:53:PHE:N	2.53	0.41
4:KC:102:ASN:ND2	4:KC:105:ARG:HB2	2.36	0.41
4:KC:104:ALA:HA	4:KC:107:HIS:HB3	2.01	0.41
4:KC:166:LYS:N	4:KC:199:ASP:OD2	2.54	0.41
4:KC:174:ALA:HB1	4:KC:207:GLU:OE2	2.21	0.41
4:KC:196:GLU:HG2	4:KC:197:HIS:ND1	2.36	0.41
4:KC:420:GLU:HA	4:KC:423:GLU:OE2	2.21	0.41
3:KD:31:ASP:HB3	3:KD:37:HIS:NE2	2.35	0.41
3:KD:233:MET:O	3:KD:236:VAL:HG12	2.20	0.41
3:KD:316:VAL:HB	3:KD:366:THR:OG1	2.21	0.41
4:KE:169:PHE:HE1	4:KE:202:PHE:CD2	2.39	0.41
4:KE:332:ILE:O	4:KE:336:LYS:HG3	2.21	0.41
4:KE:389:ALA:HA	4:KE:392:ASP:OD2	2.21	0.41
3:KF:172:SER:OG	3:KF:174:LYS:HG2	2.21	0.41
3:KF:344:TRP:O	4:KG:401:LYS:NZ	2.30	0.41
4:KG:85:GLN:OE1	4:KG:85:GLN:N	2.38	0.41
4:KG:135:PHE:HD2	4:KG:166:LYS:HG3	1.85	0.41
4:KG:143:GLY:HA3	4:KG:147:SER:H	1.85	0.41
4:KG:150:ALA:HA	4:KG:153:LEU:HG	2.03	0.41
4:KG:208:ALA:HA	4:KG:211:ASP:HB2	2.02	0.41
3:KH:102:ALA:HB1	3:KH:401:GLU:OE1	2.21	0.41
3:KH:120:VAL:O	3:KH:124:ALA:N	2.43	0.41
3:KH:151:LEU:O	3:KH:155:ILE:HG12	2.21	0.41
3:KH:324:LYS:HG3	4:KI:221:ARG:NH1	2.35	0.41
3:KH:325:GLU:HG2	3:KH:326:VAL:N	2.36	0.41
3:KH:347:ASN:HB3	4:KI:178:SER:HB3	2.03	0.41
4:KI:66:VAL:HG12	4:KI:68:VAL:HG13	2.03	0.41
4:KI:311:LYS:NZ	4:KI:343:PHE:O	2.54	0.41
4:KI:346:TRP:N	4:KI:346:TRP:CD1	2.87	0.41
4:KI:414:GLU:HG2	4:KI:417:GLU:OE1	2.21	0.41
3:KJ:148:GLY:O	3:KJ:152:ILE:HG12	2.21	0.41
3:KJ:271:ALA:HB2	3:KJ:365:ALA:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KJ:312:THR:OG1	3:KJ:370:ASN:HB3	2.19	0.41
4:KK:11:GLN:CB	4:KK:74:VAL:HG21	2.46	0.41
4:KK:21:TRP:CD1	4:KK:53:PHE:HE1	2.38	0.41
4:KK:104:ALA:O	4:KK:108:TYR:N	2.50	0.41
4:KK:135:PHE:CE2	4:KK:164:LYS:HD2	2.55	0.41
4:KK:315:CYS:HG	4:KK:343:PHE:HZ	1.68	0.41
4:KK:424:ASP:O	4:KK:428:LEU:HG	2.21	0.41
3:KL:109:GLY:O	3:KL:113:VAL:HG13	2.21	0.41
20:L:27:ARG:O	20:L:30:LEU:HB2	2.21	0.41
20:L:129:THR:N	20:L:153:GLY:O	2.41	0.41
20:L:165:LEU:O	20:L:194:ASN:ND2	2.52	0.41
22:L1:113:VAL:HG21	4:LC:405:VAL:HG21	2.03	0.41
22:L1:163:GLU:O	22:L1:167:LYS:HG2	2.20	0.41
22:L2:85:LYS:HG2	4:LE:263:PRO:HB3	2.02	0.41
22:L3:97:MET:N	22:L3:97:MET:SD	2.94	0.41
22:L3:159:CYS:HA	22:L3:162:ASN:HB2	2.02	0.41
4:LA:35:GLN:HG2	4:LA:59:GLY:O	2.20	0.41
4:LA:176:GLN:NE2	4:LA:207:GLU:OE2	2.54	0.41
4:LA:224:TYR:HB3	4:LA:228:ASN:ND2	2.36	0.41
4:LA:224:TYR:O	4:LA:228:ASN:N	2.25	0.41
4:LA:417:GLU:HG3	4:LA:420:GLU:OE1	2.21	0.41
3:LB:419:VAL:HG12	24:M1:84:LEU:HD22	2.02	0.41
3:LD:2:ARG:HB3	3:LD:131:GLN:CD	2.46	0.41
3:LD:192:LEU:O	3:LD:196:THR:HG22	2.21	0.41
4:LE:90:GLU:HG2	4:LE:121:ARG:NH2	2.36	0.41
4:LE:166:LYS:O	4:LE:199:ASP:HB2	2.20	0.41
4:LE:212:ILE:HG13	4:LE:215:ARG:NH2	2.36	0.41
4:LE:267:PHE:N	4:LE:268:PRO:HD3	2.35	0.41
3:LF:12:CYS:HA	39:LF:501:GTP:N2	2.36	0.41
3:LF:12:CYS:HB3	39:LF:501:GTP:H5'	2.02	0.41
3:LF:262:ARG:HD2	3:LF:421:GLU:CG	2.50	0.41
4:LG:272:TYR:HE1	4:LG:374:ALA:HB1	1.85	0.41
4:LG:288:VAL:O	4:LG:292:THR:OG1	2.26	0.41
4:LG:388:TRP:HB3	4:LG:425:LEU:HD11	2.03	0.41
3:LH:217:LEU:O	3:LH:219:THR:N	2.53	0.41
4:LI:51:THR:HG23	4:LI:52:PHE:HD2	1.85	0.41
4:LI:315:CYS:O	4:LI:351:PHE:HA	2.21	0.41
4:LI:320:ARG:HG2	4:LI:358:GLN:O	2.20	0.41
3:LJ:213:ARG:O	3:LJ:216:LYS:HE2	2.21	0.41
3:LJ:325:GLU:HG2	3:LJ:326:VAL:N	2.36	0.41
4:LK:12:ALA:HB1	39:LK:501:GTP:N3	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:LK:21:TRP:HE1	4:LK:65:ALA:HB3	1.85	0.41
4:LK:53:PHE:CE1	4:LK:63:PRO:HG3	2.56	0.41
4:LK:71:GLU:OE1	4:LK:71:GLU:N	2.54	0.41
4:LK:311:LYS:N	4:LK:382:THR:OG1	2.48	0.41
4:LK:333:ALA:O	4:LK:337:THR:HG23	2.21	0.41
3:LL:3:GLU:OE2	3:LL:127:CYS:HB2	2.21	0.41
3:LL:12:CYS:HA	39:LL:501:GTP:HN22	1.85	0.41
3:LL:31:ASP:OD2	3:LL:35:THR:OG1	2.31	0.41
3:LL:293:MET:HE2	3:LL:367:PHE:CB	2.51	0.41
3:LL:322:SER:HB3	3:LL:325:GLU:OE1	2.21	0.41
3:MB:100:ASN:HB3	3:MB:103:LYS:HG2	2.02	0.41
3:MB:212:PHE:O	32:S:428:VAL:HG21	2.21	0.41
3:MB:306:ARG:O	3:MB:306:ARG:NE	2.49	0.41
4:MC:1:MET:HE3	4:MC:50:ASN:ND2	2.36	0.41
4:MC:24:TYR:O	4:MC:28:HIS:ND1	2.36	0.41
4:MC:35:GLN:HG2	4:MC:59:GLY:O	2.21	0.41
4:MC:68:VAL:HG12	4:MC:93:ILE:HB	2.02	0.41
4:MC:121:ARG:O	4:MC:124:LYS:HG2	2.21	0.41
4:MC:122:ILE:HG13	4:MC:123:ARG:N	2.36	0.41
4:MC:202:PHE:HD1	4:MC:268:PRO:HD2	1.85	0.41
4:MC:329:ASN:HA	4:MC:332:ILE:HG12	2.03	0.41
4:ME:261:PRO:HA	3:MF:394:PHE:CE1	2.56	0.41
4:ME:311:LYS:NZ	4:ME:343:PHE:O	2.51	0.41
4:ME:368:LEU:HD23	4:ME:368:LEU:H	1.86	0.41
3:MF:280:GLN:H	3:MF:280:GLN:HG3	1.71	0.41
3:MF:321:MET:N	3:MF:321:MET:SD	2.94	0.41
4:MG:104:ALA:HB1	4:MG:108:TYR:CD2	2.56	0.41
4:MG:185:TYR:OH	4:MG:403:ALA:O	2.28	0.41
4:MG:265:ILE:HA	4:MG:267:PHE:CE2	2.56	0.41
3:MH:4:ILE:HB	3:MH:50:TYR:CE1	2.56	0.41
3:MH:209:ASP:O	3:MH:213:ARG:HG2	2.21	0.41
3:MH:318:ARG:C	3:MH:321:MET:HE1	2.45	0.41
4:MI:11:GLN:NE2	39:MI:501:GTP:O3A	2.53	0.41
4:MI:145:THR:OG1	39:MI:501:GTP:O1B	2.35	0.41
4:MI:161:TYR:HB3	4:MI:164:LYS:NZ	2.35	0.41
4:MI:163:LYS:HA	4:MI:163:LYS:HD3	1.73	0.41
4:MI:176:GLN:NE2	4:MI:207:GLU:OE2	2.53	0.41
4:MI:286:LEU:HD23	4:MI:286:LEU:H	1.85	0.41
4:MI:438:ASP:C	3:MJ:391:ARG:HH12	2.29	0.41
3:MJ:17:GLY:HA2	3:MJ:20:PHE:HB3	2.02	0.41
3:MJ:213:ARG:HE	3:MJ:297:LYS:NZ	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MK:3:GLU:CD	4:MK:132:LEU:H	2.29	0.41
4:MK:117:LEU:O	4:MK:121:ARG:HG2	2.20	0.41
3:ML:40:SER:O	3:ML:43:GLN:HG2	2.21	0.41
3:ML:234:SER:O	3:ML:238:THR:HG23	2.20	0.41
4:MM:2:ARG:NH1	4:MM:241:SER:O	2.53	0.41
4:MM:246:GLY:HA2	4:MM:357:TYR:HD2	1.85	0.41
26:N1:87:LYS:HG3	26:N1:91:GLU:HB2	2.03	0.41
26:N3:95:HIS:HB3	26:N3:98:THR:OG1	2.21	0.41
4:NA:261:PRO:HA	3:NB:394:PHE:CE1	2.55	0.41
4:NA:414:GLU:HG2	4:NA:417:GLU:OE1	2.20	0.41
4:NC:42:ILE:HG12	4:NC:55:GLU:OE2	2.21	0.41
4:NC:174:ALA:HB3	4:NC:177:VAL:O	2.20	0.41
4:NC:187:SER:O	4:NC:190:THR:OG1	2.31	0.41
4:NC:301:GLN:OE1	4:NC:301:GLN:N	2.54	0.41
3:ND:372:THR:HG21	3:ND:426:GLN:HG3	2.02	0.41
4:NE:175:PRO:O	4:NE:390:ARG:HD3	2.21	0.41
4:NE:397:LEU:O	4:NE:401:LYS:HG2	2.20	0.41
4:NE:438:ASP:C	3:NF:391:ARG:HH12	2.29	0.41
3:NF:8:GLN:NE2	3:NF:17:GLY:HA3	2.36	0.41
3:NF:318:ARG:HG3	3:NF:354:CYS:SG	2.61	0.41
3:NH:12:CYS:HB3	39:NH:501:GTP:H5'	2.02	0.41
3:NH:40:SER:HB3	3:NH:42:LEU:HD23	2.02	0.41
3:NH:47:ILE:HG21	3:NH:59:TYR:CZ	2.56	0.41
3:NH:51:TYR:CD1	3:NH:61:PRO:HA	2.56	0.41
3:NH:52:ASN:CG	3:NH:62:ARG:HD3	2.46	0.41
3:NH:258:VAL:HB	4:NI:407:TRP:CZ2	2.53	0.41
4:NI:139:HIS:CE1	4:NI:168:GLU:HB3	2.55	0.41
4:NI:318:LEU:O	4:NI:375:VAL:HA	2.21	0.41
3:NJ:52:ASN:CG	3:NJ:62:ARG:HD3	2.46	0.41
3:NJ:249:ASP:O	3:NJ:253:LEU:HG	2.21	0.41
4:NK:145:THR:OG1	39:NK:501:GTP:O1B	2.39	0.41
3:NL:174:LYS:HG2	3:NL:205:GLU:OE2	2.20	0.41
3:NL:318:ARG:C	3:NL:321:MET:HE1	2.46	0.41
28:O1:38:TYR:CE1	30:Q1:1418:MET:HG3	2.55	0.41
28:O1:44:ASN:OD1	28:O1:48:HIS:HB2	2.21	0.41
28:O1:106:CYS:O	28:O1:107:ASN:HB2	2.21	0.41
28:O2:29:LYS:NZ	28:O2:31:LYS:O	2.25	0.41
4:OA:67:PHE:O	4:OA:93:ILE:N	2.53	0.41
3:OB:4:ILE:HB	3:OB:50:TYR:CD1	2.56	0.41
3:OB:163:ILE:HD13	3:OB:250:LEU:HB2	2.03	0.41
3:OB:415:MET:O	3:OB:419:VAL:HG23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:OD:404:ASP:OD2	3:OD:406:MET:HE2	2.21	0.41
4:OE:34:GLY:HA3	4:OE:60:LYS:HD2	2.02	0.41
4:OE:66:VAL:HG12	4:OE:68:VAL:HG13	2.02	0.41
4:OE:70:LEU:HA	4:OE:95:GLY:HA3	2.02	0.41
4:OE:362:VAL:HA	4:OE:368:LEU:HD21	2.03	0.41
4:OE:388:TRP:HB3	4:OE:425:LEU:HD11	2.02	0.41
4:OE:389:ALA:HA	4:OE:392:ASP:OD2	2.21	0.41
3:OF:295:ASP:HB2	3:OF:298:ASN:HB2	2.02	0.41
4:OG:255:PHE:O	4:OG:259:LEU:HB2	2.21	0.41
4:OG:260:VAL:HG23	4:OG:265:ILE:O	2.20	0.41
4:OG:389:ALA:HA	4:OG:392:ASP:OD2	2.21	0.41
4:OG:399:TYR:HE2	4:OG:418:PHE:HB3	1.86	0.41
3:OH:173:PRO:HA	3:OH:380:ARG:NE	2.36	0.41
3:OH:317:PHE:HB3	3:OH:321:MET:SD	2.61	0.41
4:OI:385:ALA:HB2	4:OI:432:TYR:HD2	1.86	0.41
4:OK:2:ARG:NE	4:OK:242:LEU:HG	2.36	0.41
4:OK:34:GLY:HA3	4:OK:60:LYS:HD2	2.02	0.41
4:OK:184:PRO:HB2	4:OK:395:PHE:HD1	1.86	0.41
3:OL:41:ASP:OD1	3:OL:41:ASP:N	2.54	0.41
3:OL:189:VAL:HA	3:OL:192:LEU:HD12	2.03	0.41
3:OL:290:THR:HG21	3:OL:329:GLN:HB3	2.02	0.41
29:P1:162:THR:N	29:P1:177:ALA:O	2.51	0.41
29:P1:431:ARG:HG2	29:P1:445:GLN:OE1	2.20	0.41
29:P2:73:SER:HB3	29:P2:78:TYR:HB2	2.03	0.41
29:P2:250:SER:HB3	3:WH:37:HIS:CE1	2.55	0.41
29:P2:474:GLU:OE1	29:P2:475:GLU:HG3	2.21	0.41
29:P2:523:ASP:O	29:P2:524:ARG:HG2	2.21	0.41
29:P3:109:LEU:HD23	29:P3:109:LEU:HA	1.92	0.41
29:P3:226:THR:HA	3:WL:32:PRO:HG2	2.02	0.41
4:PA:16:ILE:HG13	4:PA:17:GLY:N	2.36	0.41
4:PA:108:TYR:HA	4:PA:112:LYS:HZ3	1.86	0.41
4:PA:252:LEU:HA	4:PA:255:PHE:CD2	2.56	0.41
4:PA:377:MET:N	4:PA:377:MET:SD	2.94	0.41
3:PB:330:MET:CG	3:PB:349:VAL:HG11	2.50	0.41
4:PC:52:PHE:HZ	4:PC:239:THR:HB	1.84	0.41
4:PC:124:LYS:HZ3	4:PC:125:LEU:CD2	2.34	0.41
4:PC:166:LYS:N	4:PC:199:ASP:OD2	2.53	0.41
3:PD:91:VAL:HG11	3:PD:116:VAL:HG12	2.02	0.41
3:PD:166:THR:OG1	3:PD:198:GLU:O	2.33	0.41
3:PD:260:PHE:CE2	3:PD:344:TRP:HZ2	2.39	0.41
3:PD:261:PRO:HD3	4:PE:406:HIS:CG	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:PE:139:HIS:CD2	4:PE:170:ALA:HB2	2.56	0.41
4:PE:165:SER:C	4:PE:166:LYS:HD2	2.45	0.41
4:PE:224:TYR:CE1	39:PE:501:GTP:C5	3.08	0.41
4:PE:234:ILE:O	4:PE:237:SER:OG	2.34	0.41
4:PE:296:PHE:CE2	4:PE:335:ILE:HD13	2.55	0.41
4:PG:263:PRO:O	4:PG:264:ARG:HB2	2.21	0.41
3:PH:141:GLY:HA3	39:PH:501:GTP:O2A	2.21	0.41
3:PH:172:SER:OG	3:PH:205:GLU:OE2	2.21	0.41
3:PH:175:VAL:HG22	3:PH:177:ASP:H	1.85	0.41
3:PH:305:PRO:HB2	3:PH:310:TYR:HE1	1.85	0.41
3:PH:328:GLU:OE1	3:PH:332:ASN:ND2	2.54	0.41
4:PI:216:ASN:OD1	4:PI:217:LEU:N	2.53	0.41
4:PI:229:ARG:NH1	4:PI:233:GLN:HB2	2.36	0.41
4:PI:346:TRP:CD1	4:PI:346:TRP:N	2.87	0.41
3:PJ:130:LEU:HB2	3:PJ:162:ARG:NH1	2.36	0.41
3:PJ:156:ARG:CZ	3:PJ:164:MET:HE3	2.51	0.41
3:PJ:386:THR:O	3:PJ:390:ARG:HG2	2.21	0.41
4:PK:256:GLN:O	4:PK:260:VAL:HG12	2.20	0.41
3:PL:135:LEU:O	3:PL:167:PHE:HB3	2.21	0.41
3:PL:344:TRP:O	4:PM:401:LYS:NZ	2.30	0.41
39:PL:501:GTP:O3G	39:PL:501:GTP:O3'	2.16	0.41
30:Q1:1341:ARG:HG3	30:Q1:1345:ARG:NE	2.36	0.41
30:Q3:1429:ALA:HB2	30:Q3:1499:LYS:HG3	2.03	0.41
30:Q3:1437:TYR:HE1	30:Q3:1492:HIS:O	2.03	0.41
3:QB:132:GLY:HA3	3:QB:163:ILE:H	1.86	0.41
3:QB:292:GLN:HA	3:QB:295:ASP:OD2	2.21	0.41
4:QC:12:ALA:HB1	39:QC:501:GTP:N3	2.36	0.41
4:QC:22:GLU:HG2	4:QC:83:TYR:CE2	2.56	0.41
4:QC:117:LEU:O	4:QC:121:ARG:HG2	2.20	0.41
4:QC:225:THR:O	4:QC:229:ARG:HB2	2.21	0.41
4:QC:245:ASP:OD1	4:QC:249:ASN:ND2	2.48	0.41
4:QC:401:LYS:H	4:QC:401:LYS:HG2	1.74	0.41
3:QD:130:LEU:HB2	3:QD:162:ARG:NH1	2.35	0.41
3:QD:139:LEU:HD21	3:QD:170:VAL:HG22	2.03	0.41
3:QD:312:THR:OG1	3:QD:370:ASN:HB3	2.21	0.41
3:QD:318:ARG:HA	3:QD:354:CYS:HB3	2.02	0.41
3:QD:375:GLN:HA	3:QD:378:PHE:CE1	2.56	0.41
4:QE:174:ALA:HB3	4:QE:177:VAL:O	2.20	0.41
4:QE:234:ILE:O	4:QE:237:SER:OG	2.36	0.41
3:QF:245:GLN:HG3	4:QG:11:GLN:HE22	1.84	0.41
4:QG:172:TYR:HE2	4:QG:390:ARG:NH2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:QG:394:LYS:HG3	4:QG:395:PHE:N	2.36	0.41
3:QH:206:ALA:O	3:QH:210:ILE:HG12	2.21	0.41
3:QH:271:ALA:HB3	3:QH:365:ALA:H	1.85	0.41
3:QH:323:MET:HG2	3:QH:324:LYS:N	2.35	0.41
4:QI:139:HIS:O	4:QI:170:ALA:HA	2.21	0.41
4:QI:146:GLY:N	39:QI:501:GTP:O2B	2.53	0.41
4:QI:189:LEU:HA	4:QI:192:HIS:CE1	2.55	0.41
4:QI:397:LEU:HD12	4:QI:398:MET:N	2.36	0.41
3:QJ:5:VAL:HG23	3:QJ:130:LEU:HD21	2.03	0.41
4:QK:189:LEU:HA	4:QK:192:HIS:ND1	2.36	0.41
3:QL:6:HIS:HD1	3:QL:63:ALA:HB1	1.85	0.41
3:QL:331:LEU:HD21	4:QM:177:VAL:HG22	2.01	0.41
3:QL:391:ARG:C	3:QL:392:LYS:HG3	2.45	0.41
3:QL:415:MET:O	3:QL:419:VAL:HG23	2.20	0.41
4:QM:91:GLN:NE2	4:QM:125:LEU:HD21	2.36	0.41
4:QM:174:ALA:HB3	4:QM:177:VAL:O	2.21	0.41
4:QM:217:LEU:HD13	4:QM:277:SER:HA	2.03	0.41
27:R:158:GLN:HE21	27:R:158:GLN:HB2	1.75	0.41
27:R:281:LEU:O	27:R:284:ILE:HB	2.20	0.41
31:R1:137:GLU:O	31:R1:141:TYR:N	2.46	0.41
3:RB:139:LEU:HD21	3:RB:170:VAL:HG22	2.03	0.41
3:RB:173:PRO:HD3	3:RB:203:ASP:OD1	2.21	0.41
3:RB:258:VAL:HB	4:RC:407:TRP:CZ2	2.55	0.41
4:RC:1:MET:O	4:RC:131:GLY:HA3	2.21	0.41
4:RC:166:LYS:HB3	4:RC:168:GLU:OE2	2.21	0.41
4:RC:257:THR:HA	3:RD:397:TRP:CZ2	2.56	0.41
3:RD:318:ARG:HB3	3:RD:364:SER:OG	2.21	0.41
4:RE:1:MET:O	4:RE:131:GLY:HA3	2.21	0.41
4:RE:55:GLU:HA	4:RE:60:LYS:O	2.21	0.41
4:RE:287:SER:N	4:RE:290:GLU:OE2	2.53	0.41
4:RE:396:ASP:N	4:RE:422:ARG:HH12	2.19	0.41
3:RF:66:VAL:HA	3:RF:91:VAL:O	2.20	0.41
3:RF:375:GLN:HA	3:RF:378:PHE:CE1	2.55	0.41
4:RG:124:LYS:HZ3	4:RG:125:LEU:CD2	2.33	0.41
4:RG:209:ILE:O	4:RG:212:ILE:HG22	2.21	0.41
4:RG:359:PRO:HA	4:RG:360:PRO:HD3	1.97	0.41
3:RH:3:GLU:HB2	3:RH:49:VAL:O	2.19	0.41
3:RH:28:HIS:CD2	3:RH:43:GLN:HB2	2.48	0.41
3:RH:87:PRO:HA	3:RH:90:PHE:CD2	2.56	0.41
3:RH:121:ARG:HA	3:RH:124:ALA:HB3	2.03	0.41
3:RH:320:ARG:NH1	3:RH:355:ASP:HB2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RH:376:GLU:O	3:RH:380:ARG:HG2	2.21	0.41
3:RH:394:PHE:HA	3:RH:397:TRP:HZ3	1.86	0.41
4:RI:90:GLU:HG2	4:RI:121:ARG:NH2	2.36	0.41
3:RJ:271:ALA:HB1	3:RJ:272:PRO:CD	2.51	0.41
4:RK:89:PRO:HB2	4:RK:90:GLU:OE1	2.21	0.41
4:RK:168:GLU:HB2	4:RK:201:ALA:HA	2.03	0.41
4:RK:235:VAL:HA	4:RK:238:ILE:HG12	2.02	0.41
4:RK:421:ALA:HA	4:RK:424:ASP:HB2	2.03	0.41
3:RL:375:GLN:HA	3:RL:378:PHE:CE1	2.56	0.41
4:RM:420:GLU:HA	4:RM:423:GLU:OE2	2.21	0.41
3:SB:252:LYS:CB	4:SC:100:ALA:HA	2.48	0.41
3:SB:390:ARG:HG2	3:SB:391:ARG:HG3	2.03	0.41
4:SC:175:PRO:HA	4:SC:390:ARG:CZ	2.51	0.41
4:SE:132:LEU:O	4:SE:132:LEU:HD12	2.21	0.41
4:SE:145:THR:OG1	39:SE:501:GTP:O1B	2.38	0.41
4:SE:319:TYR:HA	4:SE:374:ALA:O	2.21	0.41
4:SE:424:ASP:O	4:SE:428:LEU:HG	2.21	0.41
3:SF:55:THR:O	3:SF:58:LYS:HE2	2.20	0.41
3:SF:173:PRO:HD3	3:SF:203:ASP:OD1	2.21	0.41
4:SG:67:PHE:O	4:SG:93:ILE:N	2.54	0.41
4:SG:392:ASP:O	4:SG:396:ASP:N	2.44	0.41
3:SH:33:THR:O	3:SH:58:LYS:NZ	2.53	0.41
3:SH:41:ASP:OD1	3:SH:41:ASP:N	2.54	0.41
3:SH:249:ASP:O	3:SH:253:LEU:HG	2.21	0.41
3:SH:267:MET:HA	3:SH:268:PRO:HD3	1.90	0.41
4:SI:213:CYS:O	4:SI:218:ASP:N	2.54	0.41
3:SJ:284:LEU:HG	3:SJ:363:MET:HE3	2.03	0.41
4:SK:21:TRP:CE3	4:SK:24:TYR:HD2	2.39	0.41
4:SM:3:GLU:CD	4:SM:132:LEU:H	2.29	0.41
4:SM:129:CYS:SG	4:SM:132:LEU:HD12	2.61	0.41
4:SM:166:LYS:N	4:SM:199:ASP:OD2	2.54	0.41
32:T:316:GLN:HA	32:T:320:TYR:HD2	1.85	0.41
3:TB:2:ARG:HH21	3:TB:129:CYS:HB2	1.86	0.41
3:TB:41:ASP:OD1	3:TB:41:ASP:N	2.54	0.41
3:TB:52:ASN:CG	3:TB:62:ARG:HD3	2.46	0.41
4:TC:34:GLY:HA3	4:TC:60:LYS:HD2	2.03	0.41
4:TC:35:GLN:HG2	4:TC:59:GLY:O	2.21	0.41
4:TC:168:GLU:HB2	4:TC:201:ALA:HA	2.02	0.41
4:TE:288:VAL:HG23	4:TE:319:TYR:HE2	1.86	0.41
4:TE:424:ASP:O	4:TE:428:LEU:HD23	2.20	0.41
3:TF:267:MET:HG3	3:TF:369:GLY:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TF:392:LYS:O	3:TF:392:LYS:HD2	2.21	0.41
4:TG:21:TRP:HD1	4:TG:67:PHE:HZ	1.68	0.41
4:TG:104:ALA:O	4:TG:108:TYR:N	2.52	0.41
4:TG:216:ASN:ND2	4:TG:275:VAL:O	2.54	0.41
4:TG:398:MET:N	4:TG:398:MET:SD	2.93	0.41
3:TH:32:PRO:HA	3:TH:81:PHE:CE2	2.56	0.41
3:TH:73:MET:HE1	3:TH:92:PHE:CG	2.56	0.41
3:TH:152:ILE:HD13	3:TH:192:LEU:HD23	2.03	0.41
3:TH:312:THR:HA	3:TH:348:ASN:HB2	2.02	0.41
3:TH:412:GLU:HA	3:TH:415:MET:HE2	2.02	0.41
4:TI:2:ARG:HA	4:TI:133:GLN:NE2	2.36	0.41
4:TI:138:PHE:HZ	4:TI:235:VAL:HG11	1.86	0.41
4:TI:254:GLU:OE1	4:TI:254:GLU:N	2.45	0.41
4:TI:285:GLN:NE2	4:TI:286:LEU:O	2.54	0.41
4:TI:351:PHE:CZ	3:TJ:175:VAL:HG22	2.56	0.41
3:TJ:11:GLN:HG3	39:TJ:501:GTP:PA	2.60	0.41
3:TJ:12:CYS:SG	39:TJ:501:GTP:H5'	2.61	0.41
3:TJ:47:ILE:HG12	3:TJ:59:TYR:CD2	2.56	0.41
3:TJ:48:ASN:HA	3:TJ:51:TYR:O	2.21	0.41
3:TJ:258:VAL:HB	4:TK:407:TRP:CZ2	2.55	0.41
4:TK:55:GLU:OE1	4:TK:61:HIS:NE2	2.54	0.41
4:TK:301:GLN:N	4:TK:301:GLN:OE1	2.53	0.41
3:TL:8:GLN:HE21	3:TL:14:ASN:HA	1.85	0.41
3:TL:215:LEU:HD11	3:TL:228:LEU:HD11	2.03	0.41
3:TN:48:ASN:HA	3:TN:51:TYR:O	2.20	0.41
33:U:186:GLU:OE2	33:U:187:GLN:NE2	2.51	0.41
33:U:237:ARG:O	33:U:240:LEU:HG	2.20	0.41
4:UA:287:SER:N	4:UA:290:GLU:OE2	2.54	0.41
4:UA:384:ILE:HB	4:UA:388:TRP:HZ3	1.85	0.41
3:UB:188:SER:O	3:UB:192:LEU:HG	2.21	0.41
4:UC:246:GLY:HA2	4:UC:357:TYR:HD2	1.86	0.41
4:UC:272:TYR:CE1	4:UC:374:ALA:HB1	2.56	0.41
4:UC:431:ASP:HA	4:UC:434:GLU:OE1	2.20	0.41
3:UD:11:GLN:OE1	39:UD:501:GTP:N2	2.54	0.41
3:UD:102:ALA:HB1	3:UD:401:GLU:OE1	2.21	0.41
3:UD:348:ASN:OD1	3:UD:348:ASN:N	2.53	0.41
4:UE:2:ARG:HA	4:UE:133:GLN:HE22	1.86	0.41
4:UE:28:HIS:HB2	4:UE:30:ILE:HG12	2.03	0.41
4:UE:213:CYS:O	4:UE:218:ASP:N	2.54	0.41
4:UE:264:ARG:O	4:UE:266:HIS:ND1	2.53	0.41
4:UE:402:ARG:HB2	4:UE:405:VAL:HG11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UE:433:GLU:OE2	4:UE:433:GLU:N	2.41	0.41
3:UF:8:GLN:NE2	3:UF:17:GLY:HA3	2.36	0.41
3:UF:32:PRO:HA	3:UF:81:PHE:CE1	2.56	0.41
4:UG:132:LEU:HD13	4:UG:164:LYS:HE2	2.02	0.41
4:UG:141:PHE:C	4:UG:143:GLY:H	2.29	0.41
4:UG:252:LEU:HD12	4:UG:253:THR:N	2.36	0.41
4:UG:257:THR:HA	3:UH:397:TRP:CZ2	2.56	0.41
3:UH:391:ARG:O	3:UH:391:ARG:CG	2.67	0.41
3:UJ:131:GLN:HB3	3:UJ:163:ILE:HD12	2.03	0.41
3:UJ:258:VAL:O	4:UK:407:TRP:NE1	2.53	0.41
3:UJ:285:THR:O	3:UJ:288:GLU:HG3	2.21	0.41
3:UJ:286:VAL:CA	3:UJ:363:MET:HE1	2.46	0.41
3:UJ:350:LYS:HE3	4:UK:180:ALA:HA	2.03	0.41
4:UK:104:ALA:HB1	4:UK:108:TYR:CD2	2.56	0.41
4:UK:260:VAL:O	3:UL:397:TRP:HH2	2.03	0.41
3:UL:267:MET:HA	3:UL:268:PRO:HD3	1.90	0.41
3:UL:282:ARG:NE	3:UL:288:GLU:OE1	2.53	0.41
3:UL:391:ARG:C	3:UL:392:LYS:HG3	2.46	0.41
4:VA:11:GLN:HB2	4:VA:74:VAL:HG21	2.03	0.41
4:VA:105:ARG:O	4:VA:109:THR:OG1	2.19	0.41
4:VA:252:LEU:HA	4:VA:255:PHE:CD2	2.56	0.41
4:VA:263:PRO:HB2	4:VA:264:ARG:NH1	2.36	0.41
4:VA:280:LYS:HD2	4:VA:280:LYS:HA	1.81	0.41
4:VA:425:LEU:HD12	4:VA:426:ALA:N	2.35	0.41
3:VB:40:SER:HB2	3:VB:43:GLN:CD	2.46	0.41
3:VB:101:TRP:CE3	3:VB:187:LEU:HD13	2.56	0.41
3:VB:238:THR:HG21	3:VB:318:ARG:NH1	2.36	0.41
3:VB:324:LYS:HG3	4:VC:221:ARG:NH1	2.36	0.41
3:VB:378:PHE:O	3:VB:381:ILE:HG22	2.20	0.41
3:VB:410:GLU:HA	3:VB:413:SER:HB3	2.02	0.41
4:VC:286:LEU:HD23	4:VC:286:LEU:H	1.86	0.41
4:VC:431:ASP:HA	4:VC:434:GLU:HG3	2.02	0.41
3:VD:51:TYR:HB3	3:VD:59:TYR:HB3	2.03	0.41
3:VD:341:PHE:HD1	3:VD:348:ASN:HD21	1.68	0.41
3:VD:371:SER:OG	3:VD:372:THR:N	2.54	0.41
3:VD:410:GLU:HA	3:VD:413:SER:HB3	2.03	0.41
4:VE:255:PHE:O	4:VE:259:LEU:HB2	2.21	0.41
4:VE:275:VAL:O	4:VE:275:VAL:HG23	2.21	0.41
4:VE:421:ALA:O	4:VE:425:LEU:N	2.41	0.41
3:VF:3:GLU:OE2	3:VF:129:CYS:N	2.52	0.41
3:VF:39:ASP:OD1	3:VF:39:ASP:N	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VF:249:ASP:OD2	3:VF:251:ARG:HB2	2.20	0.41
4:VG:1:MET:HE3	4:VG:50:ASN:ND2	2.35	0.41
3:VH:273:LEU:H	3:VH:292:GLN:HE22	1.68	0.41
3:VH:378:PHE:O	3:VH:381:ILE:HG22	2.21	0.41
4:VI:154:MET:HE2	4:VI:194:THR:HG22	2.03	0.41
4:VI:209:ILE:HG23	4:VI:230:LEU:HD21	2.02	0.41
4:VI:288:VAL:HG23	4:VI:319:TYR:CE2	2.56	0.41
4:VI:346:TRP:CH2	4:VI:435:VAL:HA	2.56	0.41
3:VJ:12:CYS:HB3	39:VJ:501:GTP:H5'	2.02	0.41
4:VK:187:SER:O	4:VK:191:THR:HG23	2.20	0.41
4:VK:255:PHE:O	4:VK:259:LEU:HB2	2.21	0.41
4:WA:1:MET:O	4:WA:131:GLY:HA3	2.21	0.41
4:WA:42:ILE:HG12	4:WA:55:GLU:OE2	2.21	0.41
4:WA:51:THR:HG23	4:WA:52:PHE:CD2	2.55	0.41
4:WA:54:SER:N	4:WA:62:VAL:O	2.54	0.41
4:WA:370:LYS:H	4:WA:370:LYS:HG2	1.70	0.41
3:WB:388:MET:HG2	3:WB:388:MET:H	1.73	0.41
3:WB:391:ARG:C	3:WB:392:LYS:HG3	2.46	0.41
4:WC:207:GLU:HB2	4:WC:304:LYS:NZ	2.36	0.41
4:WC:263:PRO:HB2	4:WC:264:ARG:NH1	2.36	0.41
3:WD:91:VAL:HG11	3:WD:116:VAL:HG12	2.03	0.41
3:WD:120:VAL:O	3:WD:124:ALA:N	2.51	0.41
3:WD:148:GLY:O	3:WD:152:ILE:HG23	2.21	0.41
3:WD:150:LEU:C	3:WD:154:LYS:HZ3	2.28	0.41
3:WD:211:CYS:HA	3:WD:215:LEU:HB3	2.02	0.41
3:WD:376:GLU:H	3:WD:376:GLU:CD	2.28	0.41
4:WE:118:VAL:HA	4:WE:121:ARG:HG2	2.03	0.41
4:WE:346:TRP:CD1	3:WF:390:ARG:HH12	2.39	0.41
4:WE:387:ALA:O	4:WE:391:LEU:HG	2.21	0.41
3:WF:286:VAL:HB	3:WF:287:PRO:HD3	2.03	0.41
3:WF:292:GLN:HA	3:WF:295:ASP:OD2	2.21	0.41
3:WF:324:LYS:HD3	4:WG:210:TYR:HE1	1.86	0.41
4:WG:135:PHE:HE2	4:WG:166:LYS:HE3	1.86	0.41
4:WG:316:CYS:C	4:WG:317:MET:HE2	2.45	0.41
4:WI:1:MET:HE3	4:WI:50:ASN:ND2	2.36	0.41
4:WI:10:GLY:HA2	4:WI:145:THR:OG1	2.21	0.41
4:WI:202:PHE:HD1	4:WI:268:PRO:HD2	1.84	0.41
4:WI:399:TYR:OH	4:WI:415:GLU:HB2	2.21	0.41
3:WJ:271:ALA:HB3	3:WJ:365:ALA:H	1.86	0.41
3:WJ:347:ASN:HB3	4:WK:178:SER:HB3	2.03	0.41
3:WJ:394:PHE:HA	3:WJ:397:TRP:HZ3	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WK:35:GLN:HG2	4:WK:59:GLY:O	2.21	0.41
4:WK:165:SER:C	4:WK:166:LYS:HD2	2.45	0.41
4:WK:263:PRO:HB2	4:WK:264:ARG:CZ	2.51	0.41
4:WK:332:ILE:O	4:WK:336:LYS:HG3	2.21	0.41
4:WK:359:PRO:HA	4:WK:360:PRO:HD3	1.98	0.41
3:WL:80:PRO:O	3:WL:83:GLN:NE2	2.47	0.41
3:WL:312:THR:OG1	3:WL:370:ASN:HB3	2.21	0.41
33:X:447:GLU:O	33:X:451:ARG:HG2	2.21	0.41
34:XA:15:TYR:HB2	34:XA:164:ARG:HG3	2.02	0.41
34:XA:80:ILE:HG23	34:XA:130:ASN:OD1	2.21	0.41
34:XC:25:TRP:HB3	34:XC:59:ILE:CG1	2.51	0.41
34:XC:90:GLU:HG2	34:XC:153:ARG:HH12	1.85	0.41
34:XC:96:ASP:OD1	34:XC:96:ASP:N	2.53	0.41
34:XD:94:LEU:HD12	34:XD:94:LEU:HA	1.85	0.41
34:XE:2:PHE:H	34:XE:2:PHE:HD1	1.68	0.41
34:XE:29:VAL:HA	34:XE:57:THR:HG23	2.03	0.41
34:XF:78:MET:HE1	34:XF:80:ILE:HB	2.03	0.41
34:XG:90:GLU:CG	34:XG:153:ARG:HH12	2.33	0.41
34:XG:96:ASP:OD1	34:XG:96:ASP:N	2.53	0.41
35:XJ:165:MET:HE1	35:XJ:168:GLU:OE1	2.21	0.41
35:XM:76:ASN:HB2	35:XM:109:PHE:HE1	1.85	0.41
35:XM:105:PHE:CG	35:XM:106:PRO:HA	2.56	0.41
37:YH:162:VAL:HA	37:YH:165:HIS:ND1	2.35	0.41
37:YI:130:ALA:HA	37:YI:134:TYR:HB2	2.02	0.41
37:YI:161:LYS:HG3	37:YI:162:VAL:HG23	2.02	0.41
37:YK:41:ARG:NH1	37:YK:44:SER:H	2.19	0.41
37:YK:154:HIS:HA	37:YK:157:LYS:HE2	2.03	0.41
37:YN:81:GLN:HA	37:YN:84:GLU:CD	2.46	0.41
37:YN:93:THR:HB	37:YN:151:TRP:NE1	2.36	0.41
37:YP:82:HIS:NE2	37:YP:86:LEU:HD11	2.36	0.41
37:YP:159:PRO:HB2	37:YP:161:LYS:HG2	2.03	0.41
37:YR:128:ASP:HA	37:YR:131:ARG:HB2	2.01	0.41
37:YS:141:ILE:O	37:YS:145:LEU:HG	2.20	0.41
37:YT:141:ILE:O	37:YT:145:LEU:HG	2.21	0.41
37:YT:159:PRO:HB2	37:YT:161:LYS:HG2	2.02	0.41
37:YV:18:PHE:HA	37:YV:21:GLN:HB2	2.02	0.41
37:YW:110:LEU:HB3	37:YW:140:LEU:HD22	2.03	0.41
1:A:50:LYS:O	1:A:54:GLN:HG3	2.21	0.41
2:A2:284:LYS:HB2	2:A3:31:ARG:NH2	2.36	0.41
3:AB:319:GLY:HA2	3:AB:357:PRO:HG3	2.03	0.41
4:AE:8:HIS:CE1	4:AE:17:GLY:HA3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AF:12:CYS:O	3:AF:15:GLN:N	2.49	0.41
4:AG:163:LYS:HA	4:AG:163:LYS:HD3	1.76	0.41
3:AH:69:GLU:CD	3:AH:71:GLY:H	2.28	0.41
3:AH:113:VAL:O	3:AH:117:LEU:HD23	2.21	0.41
4:AI:141:PHE:HB2	4:AI:173:PRO:HD3	2.03	0.41
3:AJ:189:VAL:HA	3:AJ:192:LEU:HD12	2.03	0.41
4:AK:430:LYS:HG3	4:AK:431:ASP:N	2.35	0.41
3:AL:4:ILE:HB	3:AL:50:TYR:CE1	2.56	0.41
3:AL:78:SER:O	14:G6:131:ILE:HD12	2.20	0.41
3:AL:87:PRO:HA	3:AL:90:PHE:CD2	2.56	0.41
3:AL:274:THR:HG21	3:AL:279:GLN:HG3	2.03	0.41
4:AM:102:ASN:HD22	4:AM:105:ARG:HG3	1.85	0.41
4:AM:201:ALA:HB3	4:AM:267:PHE:CD1	2.55	0.41
4:AM:235:VAL:HA	4:AM:238:ILE:HG12	2.01	0.41
1:B:317:GLU:O	1:B:321:GLN:HG2	2.21	0.41
5:B1:321:ARG:HH22	5:B1:332:ASP:CG	2.29	0.41
5:B2:326:ASN:OD1	5:B2:327:VAL:N	2.54	0.41
5:B3:129:VAL:O	5:B4:11:ARG:NE	2.54	0.41
5:B3:150:VAL:O	5:B3:154:LYS:HG2	2.21	0.41
5:B4:267:LYS:O	5:B4:271:GLU:OE1	2.39	0.41
5:B6:299:ARG:HA	5:B6:302:GLU:OE2	2.20	0.41
5:B7:39:ARG:HH12	5:B8:293:LEU:HA	1.85	0.41
5:B7:389:LYS:HB3	5:B7:389:LYS:HE2	1.83	0.41
5:B8:201:LEU:O	8:D7:216:SER:HB2	2.21	0.41
5:B8:364:ASP:O	5:B8:368:LYS:NZ	2.48	0.41
5:B9:298:ARG:O	5:B9:299:ARG:C	2.64	0.41
5:B9:307:LYS:HA	5:B9:310:ASN:OD1	2.21	0.41
3:BB:7:LEU:HB2	3:BB:135:LEU:HG	2.03	0.41
3:BB:282:ARG:HE	3:BB:288:GLU:CD	2.29	0.41
4:BC:208:ALA:HA	4:BC:211:ASP:HB2	2.02	0.41
4:BC:255:PHE:O	4:BC:259:LEU:HB2	2.21	0.41
4:BC:261:PRO:HA	3:BD:394:PHE:CE1	2.56	0.41
3:BF:41:ASP:HA	3:BF:44:LEU:HB3	2.02	0.41
3:BF:117:LEU:HB3	3:BF:121:ARG:HH22	1.86	0.41
4:BG:75:VAL:HG23	4:BG:92:LEU:HD12	2.02	0.41
3:BH:5:VAL:HB	3:BH:133:PHE:CE1	2.56	0.41
3:BH:391:ARG:C	3:BH:392:LYS:HG3	2.46	0.41
4:BI:88:HIS:HE1	4:BI:90:GLU:CD	2.28	0.41
3:BJ:28:HIS:ND1	3:BJ:43:GLN:HB2	2.36	0.41
3:BJ:274:THR:HG21	3:BJ:279:GLN:HG3	2.02	0.41
4:BK:88:HIS:HB3	4:BK:91:GLN:HG2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BK:90:GLU:OE1	4:BK:90:GLU:N	2.53	0.41
3:BL:49:VAL:C	3:BL:62:ARG:HH21	2.28	0.41
4:BM:9:VAL:HA	4:BM:68:VAL:HG13	2.03	0.41
6:C:32:TRP:HB2	6:C:92:LEU:HD22	2.03	0.41
6:C:342:GLU:O	6:C:359:THR:HG21	2.21	0.41
7:C2:309:LEU:HD23	7:C2:312:GLN:HE22	1.85	0.41
7:C2:407:PRO:O	7:C2:411:LEU:HG	2.21	0.41
7:C3:175:THR:O	7:C3:178:LYS:HG2	2.21	0.41
7:C6:118:GLU:O	7:C6:121:ARG:HB2	2.21	0.41
7:C6:129:GLN:O	7:C6:133:GLN:HG2	2.21	0.41
7:C7:122:VAL:O	7:C7:125:SER:OG	2.23	0.41
7:C7:205:ARG:HD2	7:C7:465:THR:HG23	2.02	0.41
7:C7:248:ARG:NH2	7:Cb:197:GLU:HA	2.36	0.41
7:C7:295:SER:HB3	7:C8:413:ARG:HG3	2.03	0.41
7:C8:139:GLN:O	7:C8:143:THR:HG23	2.21	0.41
4:CC:209:ILE:HG23	4:CC:230:LEU:HD21	2.03	0.41
4:CC:297:GLU:CD	4:CC:299:ALA:H	2.30	0.41
4:CE:10:GLY:O	4:CE:14:VAL:HG13	2.21	0.41
3:CF:12:CYS:CB	39:CF:501:GTP:H5'	2.51	0.41
4:CG:90:GLU:HG2	4:CG:121:ARG:NH2	2.36	0.41
4:CG:265:ILE:CG1	4:CG:432:TYR:HE1	2.34	0.41
3:CH:12:CYS:O	3:CH:16:ILE:HG13	2.21	0.41
3:CH:197:ASP:OD1	3:CH:198:GLU:N	2.54	0.41
3:CH:215:LEU:HD22	14:G5:296:GLY:HA2	2.02	0.41
3:CH:324:LYS:H	3:CH:324:LYS:HG2	1.69	0.41
4:CI:153:LEU:HD13	4:CI:153:LEU:HA	1.90	0.41
4:CK:431:ASP:O	4:CK:435:VAL:HG22	2.20	0.41
3:CL:386:THR:O	3:CL:390:ARG:N	2.54	0.41
4:CM:16:ILE:HG13	4:CM:228:ASN:OD1	2.21	0.41
4:CM:229:ARG:NH2	4:CM:368:LEU:H	2.19	0.41
4:CM:320:ARG:NH2	4:CM:360:PRO:HA	2.36	0.41
7:Ca:405:ARG:NH1	10:E1:5:ARG:HH22	2.19	0.41
7:Cb:322:ARG:O	7:Cb:326:GLU:OE1	2.39	0.41
7:Cc:365:LEU:O	7:Cc:452:LYS:NZ	2.54	0.41
7:Cd:289:ARG:HD3	7:Cd:290:VAL:H	1.85	0.41
6:D:48:TYR:HB2	6:D:51:ASP:OD1	2.21	0.41
6:D:197:PRO:O	6:D:212:ARG:HD2	2.20	0.41
8:D2:75:GLU:HA	8:D2:78:ARG:NE	2.35	0.41
8:D4:311:LEU:HD22	8:D4:419:LYS:HE2	2.03	0.41
8:D5:425:ILE:HA	8:D5:429:LYS:HZ3	1.84	0.41
8:D6:378:LEU:O	8:D6:382:GLU:OE1	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:D7:363:ARG:NH2	8:D8:224:ILE:O	2.53	0.41
8:D8:377:LEU:HD23	8:D8:380:GLU:OE2	2.21	0.41
8:D9:137:ARG:HG3	8:D9:140:ARG:HH22	1.86	0.41
4:DA:336:LYS:NZ	3:DB:175:VAL:HG21	2.35	0.41
3:DB:292:GLN:O	3:DB:298:ASN:ND2	2.48	0.41
4:DE:261:PRO:HG3	4:DE:313:MET:HE2	2.02	0.41
3:DF:52:ASN:CG	3:DF:62:ARG:HD3	2.46	0.41
3:DF:130:LEU:HD13	3:DF:133:PHE:CE1	2.56	0.41
3:DF:155:ILE:HA	3:DF:158:GLU:HG2	2.03	0.41
3:DF:156:ARG:CZ	3:DF:164:MET:HE3	2.51	0.41
4:DG:208:ALA:HA	4:DG:211:ASP:HB2	2.03	0.41
4:DG:269:LEU:HD11	4:DG:384:ILE:HG21	2.03	0.41
3:DH:137:HIS:O	3:DH:168:SER:HA	2.21	0.41
3:DH:324:LYS:HE2	4:DI:222:PRO:HD2	2.03	0.41
4:DI:21:TRP:CH2	4:DI:52:PHE:HD1	2.39	0.41
4:DI:72:PRO:HA	4:DI:75:VAL:HG12	2.04	0.41
4:DI:119:LEU:HB3	4:DI:123:ARG:NH2	2.36	0.41
3:DJ:30:ILE:HG13	3:DJ:36:TYR:HA	2.02	0.41
3:DJ:120:VAL:O	3:DJ:124:ALA:N	2.45	0.41
4:DK:256:GLN:O	4:DK:260:VAL:HG12	2.21	0.41
10:E3:100:SER:HA	10:E3:103:ARG:NH1	2.36	0.41
10:E4:49:TRP:HD1	10:E4:62:VAL:HG22	1.85	0.41
4:EA:216:ASN:OD1	4:EA:217:LEU:N	2.54	0.41
3:EB:31:ASP:HB3	3:EB:37:HIS:NE2	2.36	0.41
3:EB:268:PRO:HD2	3:EB:301:ALA:HB2	2.02	0.41
4:EC:93:ILE:HG13	4:EC:118:VAL:HG12	2.02	0.41
4:EC:115:VAL:O	4:EC:119:LEU:HG	2.20	0.41
4:EC:166:LYS:N	4:EC:199:ASP:OD2	2.53	0.41
4:EC:208:ALA:HA	4:EC:211:ASP:HB2	2.03	0.41
3:ED:239:CYS:SG	3:ED:316:VAL:HG21	2.61	0.41
3:EF:328:GLU:OE1	3:EF:332:ASN:ND2	2.47	0.41
4:EG:50:ASN:O	4:EG:64:ARG:NH1	2.54	0.41
4:EG:273:ALA:O	4:EG:275:VAL:N	2.49	0.41
4:EG:287:SER:N	4:EG:290:GLU:OE2	2.53	0.41
4:EG:320:ARG:HD3	4:EG:360:PRO:HG3	2.03	0.41
3:EH:30:ILE:HG13	3:EH:36:TYR:CD2	2.56	0.41
4:EI:117:LEU:O	4:EI:121:ARG:HG2	2.20	0.41
4:EI:356:ASN:OD1	4:EI:358:GLN:HB3	2.20	0.41
3:EJ:4:ILE:CD1	3:EJ:131:GLN:HB2	2.50	0.41
4:EK:16:ILE:HG13	4:EK:17:GLY:N	2.35	0.41
3:EL:311:LEU:HD23	3:EL:342:VAL:HG11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EL:318:ARG:O	3:EL:364:SER:OG	2.32	0.41
3:EL:319:GLY:N	3:EL:321:MET:HE1	2.35	0.41
9:F:346:ARG:HD3	4:IK:372:GLN:H	1.85	0.41
9:F:347:SER:HB3	4:HK:57:GLY:N	2.36	0.41
9:F:377:TYR:O	9:F:381:GLN:HB3	2.21	0.41
11:F1:410:ASP:O	11:F1:414:PHE:HD1	2.04	0.41
11:F2:156:LEU:O	11:F2:160:LEU:HD23	2.21	0.41
11:F4:233:ALA:HA	11:F4:236:ILE:HG12	2.03	0.41
11:F5:327:THR:C	11:F5:331:GLN:HE22	2.29	0.41
11:F7:404:ASN:HB3	11:F7:406:GLU:OE1	2.20	0.41
11:F8:213:LYS:HA	11:F8:216:ILE:HD12	2.03	0.41
11:F9:357:LEU:O	11:F9:361:LEU:HG	2.21	0.41
11:F9:360:GLN:O	11:F9:364:ILE:HG13	2.21	0.41
4:FA:42:ILE:HG12	4:FA:55:GLU:OE2	2.21	0.41
4:FA:279:GLU:O	4:FA:283:HIS:HD2	2.04	0.41
3:FB:312:THR:OG1	3:FB:370:ASN:HB3	2.21	0.41
4:FE:12:ALA:O	39:FE:501:GTP:N1	2.53	0.41
4:FG:54:SER:N	4:FG:62:VAL:O	2.54	0.41
4:FG:148:GLY:O	4:FG:151:SER:OG	2.33	0.41
3:FH:105:HIS:ND1	3:FH:150:LEU:HG	2.36	0.41
4:FI:161:TYR:HB3	4:FI:164:LYS:NZ	2.36	0.41
4:FI:234:ILE:O	4:FI:237:SER:OG	2.33	0.41
3:FJ:134:GLN:HA	3:FJ:165:ASN:HB3	2.03	0.41
4:FK:204:VAL:HG22	4:FK:209:ILE:HD11	2.03	0.41
3:FL:190:HIS:O	3:FL:193:VAL:HG12	2.21	0.41
3:FL:218:THR:OG1	3:FL:219:THR:N	2.54	0.41
3:FL:355:ASP:N	3:FL:355:ASP:OD1	2.51	0.41
11:Fa:107:GLU:O	11:Fa:111:LEU:HD23	2.20	0.41
11:Fa:155:GLU:O	11:Fa:159:GLU:HG2	2.21	0.41
11:Fc:101:LEU:HA	11:Fc:104:ARG:HG2	2.02	0.41
11:Fe:153:LYS:HA	11:Fe:257:LYS:CE	2.51	0.41
11:Ff:113:ALA:O	11:Ff:117:THR:HG23	2.21	0.41
11:Ff:414:PHE:HA	11:Ff:417:VAL:HB	2.02	0.41
11:Fg:352:ASP:O	11:Fg:356:LYS:HG2	2.21	0.41
11:Fh:186:CYS:HA	11:Fh:189:GLN:CD	2.45	0.41
11:Fi:162:ARG:HB2	11:Fi:311:ARG:NH1	2.36	0.41
11:Fj:354:LYS:O	11:Fj:357:LEU:HG	2.21	0.41
11:Fk:292:ILE:O	11:Fk:295:THR:OG1	2.31	0.41
11:Fl:373:ASN:ND2	14:G5:591:MET:SD	2.94	0.41
11:Fm:162:ARG:O	11:Fm:165:THR:OG1	2.33	0.41
12:G:226:LEU:HD21	4:GI:372:GLN:HG2	2.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:G1:101:ALA:O	13:G1:119:HIS:ND1	2.54	0.41
13:G1:107:VAL:HG11	13:G1:110:SER:HB3	2.02	0.41
13:G1:522:GLN:H	13:G1:522:GLN:CD	2.26	0.41
13:G2:35:ASN:O	28:O2:18:TYR:CZ	2.74	0.41
13:G2:419:VAL:HG12	13:G2:443:PHE:CD1	2.56	0.41
14:G4:30:ASN:ND2	14:G4:32:VAL:HG22	2.23	0.41
14:G4:67:ASP:OD1	14:G4:67:ASP:N	2.50	0.41
14:G4:311:SER:HB2	14:G4:313:TRP:CZ3	2.56	0.41
14:G4:388:ARG:NH2	14:G4:389:LYS:O	2.50	0.41
14:G4:503:LYS:HZ2	14:G4:505:GLU:HB2	1.86	0.41
14:G4:550:GLN:OE1	14:G4:553:LYS:NZ	2.54	0.41
14:G4:670:ASP:OD2	14:G4:673:PHE:N	2.44	0.41
14:G5:25:HIS:O	14:G5:35:LEU:HG	2.20	0.41
14:G5:646:ASP:HB2	14:G5:649:LYS:CG	2.37	0.41
14:G6:103:LYS:NZ	14:G6:118:PRO:HG3	2.36	0.41
14:G6:135:ARG:HB3	14:G6:146:PHE:CD2	2.56	0.41
14:G6:225:TYR:HA	14:G6:228:LYS:HD2	2.02	0.41
14:G6:460:ASP:CB	14:G6:483:ARG:HH12	2.34	0.41
14:G6:712:TYR:HB3	14:G6:715:GLU:HG3	2.02	0.41
4:GA:349:THR:HG21	3:GB:176:SER:OG	2.21	0.41
3:GD:117:LEU:HA	3:GD:120:VAL:HG22	2.02	0.41
3:GD:309:ARG:O	3:GD:371:SER:OG	2.25	0.41
4:GE:142:GLY:HA3	4:GE:183:GLU:HG2	2.02	0.41
3:GF:69:GLU:OE1	3:GF:72:THR:N	2.44	0.41
3:GF:130:LEU:HG	3:GF:133:PHE:CE1	2.56	0.41
3:GH:4:ILE:HG12	3:GH:131:GLN:OE1	2.21	0.41
3:GH:8:GLN:NE2	3:GH:17:GLY:HA3	2.36	0.41
3:GH:16:ILE:HG21	3:GH:167:PHE:HE2	1.85	0.41
3:GH:318:ARG:HB3	3:GH:364:SER:OG	2.21	0.41
4:GI:48:SER:O	4:GI:51:THR:HG22	2.21	0.41
4:GI:115:VAL:HA	4:GI:118:VAL:HB	2.02	0.41
4:GI:137:ILE:HG22	4:GI:139:HIS:ND1	2.36	0.41
4:GI:285:GLN:NE2	4:GI:286:LEU:O	2.54	0.41
3:GJ:88:ASP:OD1	3:GJ:89:ASN:N	2.54	0.41
15:H1:37:ARG:NH2	15:H1:38:THR:HG22	2.36	0.41
4:HA:139:HIS:O	4:HA:170:ALA:HA	2.21	0.41
4:HA:163:LYS:HA	4:HA:163:LYS:HD3	1.73	0.41
4:HA:234:ILE:O	4:HA:238:ILE:HG23	2.21	0.41
4:HA:271:THR:HB	4:HA:377:MET:HE2	2.02	0.41
4:HA:363:VAL:H	4:HA:368:LEU:HD21	1.85	0.41
3:HB:324:LYS:HB3	3:HB:324:LYS:HE3	1.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HC:208:ALA:N	4:HC:304:LYS:HZ1	2.10	0.41
4:HC:263:PRO:O	4:HC:264:ARG:HB2	2.21	0.41
3:HD:131:GLN:HB3	3:HD:163:ILE:HD12	2.03	0.41
3:HD:242:PHE:HE2	3:HD:318:ARG:NH2	2.19	0.41
4:HE:322:ASP:HB3	4:HE:372:GLN:NE2	2.35	0.41
3:HF:259:PRO:HA	4:HG:404:PHE:CD1	2.57	0.41
3:HH:275:SER:O	3:HH:279:GLN:NE2	2.53	0.41
3:HH:374:ILE:HG22	3:HH:378:PHE:CE2	2.56	0.41
4:HI:213:CYS:SG	4:HI:222:PRO:HG3	2.61	0.41
4:HK:108:TYR:CE1	4:HK:413:MET:HE3	2.56	0.41
3:HL:36:TYR:CE2	3:HL:38:GLY:HA2	2.56	0.41
3:HL:40:SER:O	3:HL:44:LEU:HG	2.21	0.41
3:HL:271:ALA:HB3	3:HL:365:ALA:H	1.86	0.41
3:HL:371:SER:OG	3:HL:372:THR:N	2.54	0.41
3:IB:305:PRO:HB2	3:IB:310:TYR:HE1	1.86	0.41
4:IC:229:ARG:HH12	4:IC:233:GLN:HB3	1.85	0.41
3:ID:4:ILE:HB	3:ID:50:TYR:CE1	2.56	0.41
3:IF:318:ARG:N	3:IF:364:SER:O	2.48	0.41
4:IG:22:GLU:O	4:IG:26:LEU:HD23	2.20	0.41
4:IG:182:VAL:O	4:IG:185:TYR:HB2	2.20	0.41
3:IH:150:LEU:O	3:IH:153:SER:OG	2.38	0.41
3:IH:289:LEU:HD22	3:IH:363:MET:HE2	2.04	0.41
4:II:117:LEU:O	4:II:121:ARG:HG2	2.21	0.41
4:II:135:PHE:HD2	4:II:166:LYS:HG3	1.84	0.41
4:IK:15:GLN:OE1	4:IK:15:GLN:N	2.49	0.41
4:IK:187:SER:OG	4:IK:188:ILE:HD12	2.21	0.41
3:IL:30:ILE:HG13	3:IL:36:TYR:CD1	2.56	0.41
3:IL:343:GLU:N	3:IL:343:GLU:OE1	2.54	0.41
3:IL:423:GLN:HG2	3:IL:427:ASP:HB2	2.03	0.41
4:IM:2:ARG:NE	4:IM:242:LEU:HD23	2.36	0.41
18:J:123:LYS:O	18:J:125:LEU:N	2.53	0.41
19:J1:121:MET:HE3	19:J1:131:ALA:CB	2.51	0.41
19:J3:25:THR:H	19:J3:28:LEU:HB3	1.86	0.41
3:JB:101:TRP:CE3	3:JB:187:LEU:HD13	2.56	0.41
4:JC:161:TYR:HB3	4:JC:164:LYS:HZ3	1.86	0.41
4:JC:251:ASP:HB3	4:JC:254:GLU:OE1	2.21	0.41
4:JE:338:LYS:NZ	4:JE:339:ARG:H	2.19	0.41
4:JE:438:ASP:C	3:JF:391:ARG:HH12	2.28	0.41
3:JF:2:ARG:HB3	3:JF:131:GLN:NE2	2.36	0.41
3:JF:390:ARG:HA	3:JF:390:ARG:HD2	1.89	0.41
4:JG:216:ASN:HD21	4:JG:275:VAL:HG23	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:JI:166:LYS:O	4:JI:199:ASP:HB2	2.20	0.41
3:JJ:30:ILE:HG13	3:JJ:36:TYR:CD1	2.55	0.41
4:JK:35:GLN:HG2	4:JK:59:GLY:O	2.21	0.41
20:K:201:LEU:HD13	20:K:219:LYS:HB3	2.03	0.41
20:K:261:GLU:CD	20:K:265:ASN:HB2	2.45	0.41
21:K1:368:ASN:ND2	21:K1:429:MET:SD	2.94	0.41
21:K2:23:GLN:HG2	21:K2:24:ALA:H	1.84	0.41
21:K2:167:GLU:HG2	21:K2:168:VAL:N	2.34	0.41
21:K3:236:PHE:O	21:K3:240:GLU:HG2	2.21	0.41
21:K3:330:ASN:OD1	21:K3:468:ARG:NH1	2.54	0.41
21:K3:346:LEU:HD13	21:K4:21:TRP:CD1	2.56	0.41
21:K3:353:THR:O	21:K3:356:LEU:N	2.49	0.41
21:K4:456:VAL:O	21:K4:460:VAL:HG23	2.21	0.41
21:K5:44:VAL:HG13	21:K5:45:THR:N	2.35	0.41
4:KA:89:PRO:HB2	4:KA:90:GLU:OE1	2.21	0.41
3:KB:282:ARG:NH2	3:KB:292:GLN:OE1	2.29	0.41
3:KB:320:ARG:NH1	3:KB:320:ARG:HA	2.36	0.41
3:KB:324:LYS:HE2	4:KC:222:PRO:CD	2.51	0.41
3:KB:375:GLN:O	3:KB:379:LYS:HG2	2.21	0.41
4:KC:10:GLY:HA2	4:KC:145:THR:OG1	2.21	0.41
3:KD:324:LYS:HE2	4:KE:222:PRO:CD	2.51	0.41
4:KE:261:PRO:HG3	4:KE:313:MET:SD	2.61	0.41
4:KE:327:ASP:OD1	4:KE:328:VAL:N	2.54	0.41
4:KG:2:ARG:HA	4:KG:133:GLN:HE22	1.86	0.41
3:KH:257:MET:O	3:KH:259:PRO:HD3	2.20	0.41
3:KH:320:ARG:NH1	3:KH:355:ASP:HB2	2.36	0.41
4:KI:286:LEU:HD23	4:KI:286:LEU:H	1.86	0.41
4:KI:316:CYS:O	4:KI:317:MET:HE2	2.21	0.41
4:KI:319:TYR:HA	4:KI:374:ALA:O	2.21	0.41
4:KI:411:GLU:OE2	4:KI:413:MET:HE1	2.20	0.41
3:KJ:109:GLY:O	3:KJ:113:VAL:HG13	2.21	0.41
3:KJ:192:LEU:O	3:KJ:196:THR:HG22	2.21	0.41
4:KK:363:VAL:HG12	4:KK:368:LEU:HD22	2.03	0.41
3:KL:12:CYS:HA	39:KL:501:GTP:HN22	1.86	0.41
3:KL:375:GLN:H	3:KL:375:GLN:CD	2.28	0.41
22:L2:141:LEU:CD1	4:MG:304:LYS:HG3	2.43	0.41
22:L3:215:SER:HB3	22:L3:216:VAL:H	1.75	0.41
3:LB:36:TYR:CE2	3:LB:38:GLY:HA2	2.55	0.41
4:LC:51:THR:HG1	4:LC:242:LEU:HD11	1.86	0.41
4:LC:133:GLN:HB3	4:LC:252:LEU:HD21	2.02	0.41
4:LC:153:LEU:HD12	4:LC:154:MET:N	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:LI:88:HIS:CE1	4:LI:90:GLU:HG2	2.56	0.41
4:LI:104:ALA:HB3	4:LI:413:MET:HE3	2.02	0.41
4:LI:153:LEU:O	4:LI:157:LEU:N	2.43	0.41
4:LK:118:VAL:HA	4:LK:121:ARG:HG2	2.03	0.41
3:LL:12:CYS:HA	3:LL:15:GLN:OE1	2.21	0.41
3:LL:173:PRO:HD3	3:LL:203:ASP:OD1	2.21	0.41
24:M2:95:ARG:HH12	24:M2:98:HIS:C	2.28	0.41
3:MB:77:ARG:O	3:MB:77:ARG:NH1	2.42	0.41
3:MD:6:HIS:HB2	3:MD:134:GLN:NE2	2.35	0.41
3:MD:251:ARG:O	3:MD:255:VAL:HG22	2.20	0.41
3:MD:306:ARG:HB3	28:O1:9:GLN:NE2	2.34	0.41
3:MD:375:GLN:O	3:MD:379:LYS:HB2	2.21	0.41
3:MD:394:PHE:HA	3:MD:397:TRP:HZ3	1.86	0.41
4:ME:19:ALA:HA	4:ME:22:GLU:OE1	2.21	0.41
4:ME:70:LEU:HB3	4:ME:97:GLU:O	2.21	0.41
3:MF:318:ARG:HD3	3:MF:358:PRO:HG3	2.03	0.41
4:MG:246:GLY:HA3	4:MG:355:ILE:O	2.21	0.41
4:MG:390:ARG:HA	4:MG:393:HIS:HE1	1.81	0.41
4:MG:425:LEU:O	4:MG:428:LEU:N	2.54	0.41
3:MH:143:THR:O	3:MH:147:MET:HG2	2.21	0.41
3:MH:305:PRO:HB3	3:MH:371:SER:OG	2.20	0.41
4:MI:52:PHE:HZ	4:MI:239:THR:HB	1.85	0.41
4:MI:104:ALA:O	4:MI:108:TYR:N	2.53	0.41
3:MJ:117:LEU:HD11	3:MJ:154:LYS:HD2	2.03	0.41
3:MJ:317:PHE:HE2	3:MJ:326:VAL:HG23	1.86	0.41
3:MJ:423:GLN:O	3:MJ:427:ASP:N	2.49	0.41
4:MK:12:ALA:HB1	39:MK:501:GTP:C2	2.56	0.41
4:MK:187:SER:O	4:MK:190:THR:OG1	2.29	0.41
3:ML:19:LYS:O	3:ML:22:GLU:HG3	2.21	0.41
3:ML:106:TYR:HB2	3:ML:401:GLU:OE2	2.21	0.41
3:ML:304:ASP:OD1	3:ML:305:PRO:HD2	2.21	0.41
4:MM:420:GLU:HA	4:MM:423:GLU:OE2	2.21	0.41
26:N1:159:ARG:O	26:N1:161:ASN:N	2.54	0.41
4:NA:1:MET:HE3	4:NA:50:ASN:HD21	1.85	0.41
3:ND:286:VAL:HG12	3:ND:329:GLN:HG3	2.02	0.41
3:NF:180:VAL:HG22	3:NF:183:TYR:HB2	2.02	0.41
4:NG:346:TRP:CD1	4:NG:346:TRP:N	2.88	0.41
3:NH:246:LEU:HB3	3:NH:353:VAL:O	2.20	0.41
4:NI:420:GLU:HA	4:NI:423:GLU:OE2	2.21	0.41
3:NJ:87:PRO:HA	3:NJ:90:PHE:CD2	2.56	0.41
3:NJ:152:ILE:O	3:NJ:156:ARG:HG2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NJ:322:SER:OG	3:NJ:324:LYS:NZ	2.53	0.41
4:NK:113:GLU:OE1	4:NK:113:GLU:N	2.54	0.41
4:NK:189:LEU:HA	4:NK:192:HIS:HD1	1.86	0.41
3:NL:41:ASP:OD1	3:NL:41:ASP:N	2.54	0.41
4:OA:76:ASP:OD1	4:OA:79:ARG:NH1	2.54	0.41
3:OB:87:PRO:HA	3:OB:90:PHE:CD2	2.56	0.41
3:OB:189:VAL:HA	3:OB:192:LEU:HB2	2.03	0.41
3:OB:246:LEU:HB2	3:OB:352:ALA:HB1	2.02	0.41
3:OD:143:THR:HG22	3:OD:147:MET:HE2	2.03	0.41
3:OD:415:MET:O	3:OD:419:VAL:HG23	2.20	0.41
4:OE:148:GLY:O	4:OE:151:SER:OG	2.36	0.41
4:OE:171:ILE:HD12	4:OE:204:VAL:HG13	2.02	0.41
4:OE:185:TYR:O	4:OE:189:LEU:HG	2.21	0.41
3:OH:34:GLY:HA3	3:OH:58:LYS:NZ	2.35	0.41
4:OI:185:TYR:HA	4:OI:395:PHE:HE1	1.86	0.41
4:OI:280:LYS:HA	4:OI:280:LYS:HD2	1.75	0.41
29:P1:492:ARG:CZ	29:P1:494:ARG:HD3	2.51	0.41
29:P2:275:PHE:HB3	29:P2:285:LYS:HB2	2.03	0.41
29:P3:509:CYS:SG	29:P3:551:MET:HG3	2.61	0.41
4:PA:175:PRO:O	4:PA:390:ARG:HD3	2.20	0.41
4:PA:346:TRP:CD1	4:PA:346:TRP:N	2.87	0.41
3:PD:17:GLY:HA2	3:PD:20:PHE:HB3	2.03	0.41
4:PE:318:LEU:O	4:PE:375:VAL:HA	2.21	0.41
3:PF:199:THR:HB	3:PF:265:PHE:HA	2.02	0.41
4:PG:22:GLU:HG2	4:PG:83:TYR:CE2	2.55	0.41
3:PH:11:GLN:O	3:PH:14:ASN:HB2	2.21	0.41
4:PI:1:MET:O	4:PI:133:GLN:NE2	2.44	0.41
3:PJ:192:LEU:O	3:PJ:196:THR:HG22	2.21	0.41
3:PJ:350:LYS:HE3	4:PK:181:VAL:N	2.35	0.41
4:PM:15:GLN:OE1	39:PM:501:GTP:C6	2.68	0.41
30:Q1:1378:GLU:O	30:Q1:1382:LEU:HG	2.21	0.41
30:Q1:1497:TYR:OH	30:Q1:1513:ALA:HB2	2.21	0.41
30:Q3:1410:LYS:HE3	30:Q3:1418:MET:HB2	2.03	0.41
3:QB:55:THR:HG23	3:RB:283:ALA:HA	2.02	0.41
3:QB:173:PRO:HD3	3:QB:203:ASP:OD1	2.21	0.41
3:QB:378:PHE:CE1	3:QB:419:VAL:HG22	2.55	0.41
4:QC:263:PRO:O	4:QC:264:ARG:HB2	2.21	0.41
4:QE:104:ALA:HB1	4:QE:108:TYR:HD2	1.85	0.41
4:QG:280:LYS:HA	4:QG:280:LYS:HD2	1.72	0.41
4:QI:119:LEU:HA	4:QI:122:ILE:HG12	2.03	0.41
4:QI:196:GLU:HG2	4:QI:197:HIS:ND1	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:QI:387:ALA:O	4:QI:391:LEU:HG	2.21	0.41
4:QK:115:VAL:HG23	4:QK:153:LEU:HD13	2.03	0.41
4:QK:271:THR:HA	4:QK:302:MET:HE1	2.03	0.41
3:QL:15:GLN:O	3:QL:19:LYS:HE2	2.21	0.41
3:QL:134:GLN:HA	3:QL:165:ASN:HB3	2.03	0.41
4:QM:55:GLU:HA	4:QM:60:LYS:O	2.20	0.41
4:QM:67:PHE:HB2	4:QM:92:LEU:HD13	2.03	0.41
4:QM:175:PRO:HB3	4:QM:390:ARG:HD2	2.04	0.41
27:R:321:LEU:HB3	27:R:325:ARG:HH21	1.85	0.41
31:R2:124:ASN:O	31:R2:128:VAL:N	2.49	0.41
4:RC:166:LYS:N	4:RC:199:ASP:OD2	2.53	0.41
4:RC:174:ALA:HB3	4:RC:177:VAL:O	2.21	0.41
4:RC:285:GLN:NE2	4:RC:286:LEU:O	2.54	0.41
3:RD:109:GLY:O	3:RD:113:VAL:HG13	2.21	0.41
4:RE:331:ALA:O	4:RE:334:THR:OG1	2.32	0.41
3:RF:12:CYS:O	3:RF:16:ILE:HG12	2.21	0.41
4:RG:167:LEU:HD11	4:RG:252:LEU:HD22	2.03	0.41
4:RI:76:ASP:OD1	4:RI:79:ARG:NH1	2.54	0.41
4:RI:87:PHE:HB3	4:RI:92:LEU:HD21	2.03	0.41
3:RJ:83:GLN:O	3:RJ:86:ARG:NH2	2.53	0.41
3:RJ:306:ARG:O	3:RJ:306:ARG:NE	2.47	0.41
4:RK:3:GLU:N	4:RK:133:GLN:OE1	2.54	0.41
3:SB:12:CYS:HA	39:SB:501:GTP:C2	2.56	0.41
4:SC:30:ILE:HD12	4:SC:61:HIS:CD2	2.55	0.41
4:SC:387:ALA:O	4:SC:391:LEU:HG	2.21	0.41
3:SD:312:THR:OG1	3:SD:370:ASN:HB3	2.21	0.41
4:SE:54:SER:N	4:SE:62:VAL:O	2.50	0.41
3:SF:6:HIS:HD1	3:SF:63:ALA:HB1	1.86	0.41
3:SF:114:ASP:OD1	3:SF:114:ASP:N	2.53	0.41
4:SG:196:GLU:HG2	4:SG:197:HIS:ND1	2.35	0.41
3:SH:240:LEU:HD22	3:SH:248:ALA:HB1	2.03	0.41
4:SK:2:ARG:NE	4:SK:242:LEU:HG	2.36	0.41
4:SK:397:LEU:HD12	4:SK:398:MET:N	2.36	0.41
3:SL:4:ILE:HB	3:SL:50:TYR:HE1	1.85	0.41
3:SL:32:PRO:O	3:SL:83:GLN:NE2	2.48	0.41
3:SL:120:VAL:O	3:SL:124:ALA:N	2.43	0.41
3:SL:133:PHE:O	3:SL:165:ASN:HB3	2.21	0.41
4:SM:12:ALA:HB1	39:SM:501:GTP:C2	2.56	0.41
4:SM:329:ASN:HA	4:SM:332:ILE:HG22	2.03	0.41
4:SM:359:PRO:HA	4:SM:360:PRO:HD3	1.98	0.41
3:TB:389:PHE:HZ	3:TB:405:GLU:HB2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:TC:203:MET:HE2	4:TC:267:PHE:HD1	1.85	0.41
4:TC:331:ALA:O	4:TC:335:ILE:HG12	2.21	0.41
4:TE:90:GLU:HG2	4:TE:121:ARG:NH2	2.36	0.41
4:TE:246:GLY:HA2	4:TE:357:TYR:CD2	2.56	0.41
4:TE:278:ALA:O	4:TE:370:LYS:NZ	2.50	0.41
4:TE:296:PHE:CE1	4:TE:377:MET:HE2	2.52	0.41
3:TF:257:MET:O	3:TF:259:PRO:HD3	2.21	0.41
4:TG:319:TYR:HA	4:TG:374:ALA:O	2.20	0.41
4:TG:363:VAL:HG13	4:TG:366:GLY:HA3	2.02	0.41
3:TJ:392:LYS:O	3:TJ:392:LYS:HD2	2.21	0.41
4:TM:50:ASN:OD1	4:TM:51:THR:N	2.54	0.41
4:TM:389:ALA:HA	4:TM:392:ASP:OD2	2.21	0.41
3:TN:19:LYS:NZ	3:TN:223:GLY:O	2.47	0.41
3:TN:267:MET:HA	3:TN:268:PRO:HD3	1.86	0.41
3:TN:392:LYS:O	3:TN:392:LYS:HD2	2.21	0.41
33:U:216:GLN:O	33:U:219:LYS:HG2	2.21	0.41
33:U:391:ALA:O	33:U:395:GLN:N	2.47	0.41
4:UA:90:GLU:HG2	4:UA:121:ARG:NH2	2.36	0.41
4:UA:285:GLN:NE2	4:UA:286:LEU:O	2.54	0.41
3:UB:152:ILE:O	3:UB:156:ARG:HG2	2.22	0.41
3:UB:228:LEU:O	3:UB:232:THR:HG23	2.21	0.41
4:UC:166:LYS:N	4:UC:199:ASP:OD2	2.53	0.41
4:UC:192:HIS:CE1	4:UC:193:THR:HG23	2.56	0.41
4:UC:271:THR:HB	4:UC:377:MET:HE2	2.03	0.41
4:UC:389:ALA:HA	4:UC:392:ASP:OD2	2.21	0.41
4:UC:397:LEU:O	4:UC:401:LYS:HG2	2.21	0.41
3:UD:8:GLN:N	3:UD:8:GLN:OE1	2.54	0.41
3:UD:41:ASP:N	3:UD:41:ASP:OD1	2.53	0.41
3:UF:12:CYS:HA	39:UF:501:GTP:C2	2.56	0.41
3:UF:405:GLU:O	3:UF:409:THR:HG23	2.21	0.41
4:UG:172:TYR:CE2	4:UG:387:ALA:HB1	2.56	0.41
4:UG:397:LEU:O	4:UG:401:LYS:HE2	2.21	0.41
3:UH:121:ARG:HA	3:UH:124:ALA:HB3	2.02	0.41
4:UI:132:LEU:O	4:UI:132:LEU:HD12	2.21	0.41
3:UJ:8:GLN:NE2	3:UJ:17:GLY:HA3	2.36	0.41
3:UJ:12:CYS:HB3	39:UJ:501:GTP:H5'	2.03	0.41
3:UJ:152:ILE:O	3:UJ:156:ARG:HG2	2.21	0.41
3:UJ:217:LEU:HD11	3:UJ:220:PRO:HB3	2.03	0.41
3:UJ:394:PHE:HA	3:UJ:397:TRP:HZ3	1.86	0.41
4:UK:53:PHE:HD1	4:UK:63:PRO:HA	1.86	0.41
4:UK:107:HIS:CD2	4:UK:152:LEU:HB2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UK:229:ARG:NH1	4:UK:233:GLN:HB2	2.35	0.41
3:UL:178:THR:HB	3:UL:181:GLU:HB2	2.03	0.41
3:UL:305:PRO:HA	3:UL:373:ALA:HB2	2.02	0.41
4:VA:368:LEU:H	4:VA:368:LEU:HD23	1.86	0.41
3:VB:5:VAL:HB	3:VB:133:PHE:CE1	2.57	0.41
3:VB:249:ASP:HB3	3:VB:252:LYS:HB2	2.03	0.41
4:VC:104:ALA:HB1	4:VC:108:TYR:CD2	2.56	0.41
3:VD:119:VAL:O	3:VD:122:LYS:HB2	2.21	0.41
3:VD:330:MET:CG	3:VD:349:VAL:HG11	2.51	0.41
3:VF:322:SER:HB3	3:VF:325:GLU:OE1	2.21	0.41
3:VF:375:GLN:HA	3:VF:378:PHE:CE1	2.55	0.41
3:VF:414:ASN:O	3:VF:418:LEU:HG	2.21	0.41
4:VG:75:VAL:HA	4:VG:78:VAL:HG22	2.03	0.41
3:VH:118:ASP:O	3:VH:122:LYS:HG3	2.21	0.41
4:VI:319:TYR:HA	4:VI:374:ALA:O	2.20	0.41
4:VK:251:ASP:HB3	4:VK:254:GLU:OE1	2.20	0.41
4:VK:279:GLU:HB3	33:X:424:ARG:NH2	2.35	0.41
4:VK:285:GLN:NE2	4:VK:286:LEU:O	2.54	0.41
3:VL:42:LEU:HD11	3:VL:356:ILE:HG21	2.03	0.41
3:VL:271:ALA:HB3	3:VL:365:ALA:H	1.86	0.41
3:VL:392:LYS:HD2	3:VL:392:LYS:O	2.20	0.41
33:W:252:GLU:O	33:W:256:ARG:N	2.49	0.41
33:W:381:ASP:OD1	33:W:382:TYR:N	2.53	0.41
4:WA:2:ARG:HA	4:WA:133:GLN:HE22	1.85	0.41
4:WA:104:ALA:HB1	4:WA:108:TYR:CD2	2.56	0.41
4:WA:154:MET:HA	4:WA:157:LEU:HG	2.03	0.41
4:WA:261:PRO:HA	3:WB:394:PHE:CE1	2.56	0.41
4:WC:35:GLN:HG2	4:WC:59:GLY:O	2.21	0.41
4:WC:83:TYR:HB3	4:WC:86:LEU:HD12	2.03	0.41
4:WC:426:ALA:O	4:WC:430:LYS:HE2	2.21	0.41
4:WE:115:VAL:HA	4:WE:118:VAL:HG22	2.02	0.41
3:WF:142:GLY:N	39:WF:501:GTP:O3G	2.43	0.41
3:WF:156:ARG:CZ	3:WF:164:MET:HE3	2.50	0.41
3:WH:11:GLN:O	3:WH:14:ASN:HB2	2.20	0.41
3:WH:113:VAL:HA	3:WH:116:VAL:HG22	2.03	0.41
3:WH:344:TRP:CH2	4:WI:401:LYS:HB2	2.55	0.41
3:WJ:144:GLY:N	39:WJ:501:GTP:O2B	2.54	0.41
4:WK:175:PRO:O	4:WK:390:ARG:HD3	2.21	0.41
4:WK:235:VAL:HA	4:WK:238:ILE:HG12	2.04	0.41
34:XA:24:ILE:HG13	34:XA:62:PRO:HA	2.03	0.41
34:XA:140:THR:HG21	34:XA:148:TYR:H	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:XC:102:ARG:N	34:XC:117:PHE:O	2.43	0.41
34:XD:15:TYR:CD1	34:XD:164:ARG:HB2	2.55	0.41
34:XD:71:ILE:HG21	34:XD:167:PHE:CD2	2.48	0.41
34:XE:97:LYS:O	34:XE:97:LYS:HD3	2.20	0.41
34:XF:77:VAL:HA	34:XF:132:ILE:O	2.21	0.41
34:XF:126:ASP:OD2	34:XF:130:ASN:ND2	2.43	0.41
34:XF:133:GLN:O	34:XF:133:GLN:HG2	2.21	0.41
34:XG:94:LEU:HB3	34:XG:150:GLU:OE1	2.21	0.41
35:XH:133:LEU:O	35:XH:136:PRO:HD2	2.21	0.41
35:XI:179:PRO:HA	35:XI:231:MET:SD	2.60	0.41
35:XL:108:GLU:O	35:XL:112:ARG:NH1	2.54	0.41
35:XL:116:HIS:CE1	35:XL:155:VAL:HA	2.55	0.41
35:XM:131:PRO:HB3	35:XM:173:TYR:OH	2.21	0.41
37:YB:97:LEU:HD12	37:YB:97:LEU:HA	1.91	0.41
37:YD:114:ARG:HG2	37:YD:122:VAL:HG21	2.02	0.41
37:YE:153:ALA:O	37:YE:157:LYS:NZ	2.37	0.41
37:YL:52:TYR:HA	37:YL:56:TYR:OH	2.19	0.41
37:YL:110:LEU:HA	37:YL:113:LEU:HD23	2.03	0.41
37:YN:8:LEU:O	37:YN:12:GLU:HG3	2.21	0.41
37:YN:28:ALA:HB3	37:YN:65:ILE:HD11	2.02	0.41
37:YO:21:GLN:HG2	37:YO:65:ILE:HD11	2.03	0.41
37:YQ:53:MET:HA	37:YQ:57:CYS:SG	2.61	0.41
37:YQ:146:ASP:HB2	37:YQ:149:LYS:HE3	2.02	0.41
37:YR:11:ILE:HG12	37:YR:15:TYR:CE2	2.55	0.41
37:YU:68:MET:O	37:YU:72:ILE:HG13	2.20	0.41
36:Z:214:LYS:HA	36:Z:217:GLU:HG3	2.02	0.41
36:Z:276:ILE:HG13	36:Z:277:ARG:N	2.36	0.41
38:a:27:ARG:O	38:a:31:ILE:HD12	2.20	0.41
1:A:65:PHE:CE2	20:K:38:LEU:HD11	2.56	0.40
2:A4:176:ARG:O	2:A4:180:THR:HG23	2.21	0.40
3:AB:228:LEU:O	3:AB:232:THR:HG23	2.21	0.40
3:AB:347:ASN:HB3	4:AC:178:SER:HB3	2.03	0.40
3:AD:11:GLN:HG3	39:AD:501:GTP:PA	2.62	0.40
3:AD:61:PRO:HD3	3:AD:84:ILE:HG13	2.02	0.40
3:AD:203:ASP:N	3:AD:301:ALA:O	2.54	0.40
4:AE:252:LEU:HD12	4:AE:253:THR:N	2.36	0.40
3:AF:198:GLU:OE2	3:AF:266:PHE:HD2	2.04	0.40
3:AF:246:LEU:HD22	3:AF:354:CYS:HA	2.03	0.40
3:AF:317:PHE:HB3	3:AF:321:MET:HE3	2.03	0.40
3:AH:392:LYS:HD3	34:XD:97:LYS:HZ2	1.86	0.40
4:AK:45:GLY:HA2	4:AK:49:PHE:HE1	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AL:145:SER:HB2	3:AL:188:SER:HB3	2.03	0.40
4:AM:145:THR:HG1	39:AM:501:GTP:PB	2.44	0.40
4:AM:182:VAL:O	4:AM:185:TYR:HB2	2.22	0.40
4:AM:390:ARG:HA	4:AM:393:HIS:CD2	2.56	0.40
1:B:308:GLU:O	1:B:312:GLN:HG3	2.21	0.40
1:B:436:ARG:O	1:B:440:ILE:HG12	2.21	0.40
1:B:470:ARG:HD3	1:B:470:ARG:O	2.21	0.40
5:B2:176:HIS:HE2	10:E3:133:ARG:NH2	2.19	0.40
5:B2:417:ARG:HA	5:B2:417:ARG:NH1	2.36	0.40
5:B3:201:LEU:HB2	8:D3:216:SER:OG	2.20	0.40
5:B4:119:LEU:HD22	5:B4:389:LYS:NZ	2.35	0.40
5:B4:180:MET:SD	10:E1:133:ARG:NH2	2.94	0.40
5:B4:382:ASN:O	5:B4:386:LEU:HG	2.21	0.40
5:B5:39:ARG:HD2	5:B6:292:GLU:OE1	2.21	0.40
5:B6:230:GLU:O	5:B6:233:MET:HG3	2.22	0.40
5:B7:67:ARG:O	5:B7:71:VAL:HG23	2.21	0.40
5:B7:315:HIS:CD2	5:B7:315:HIS:C	2.99	0.40
5:B7:315:HIS:HD2	5:B7:315:HIS:O	2.05	0.40
5:B8:82:LEU:O	5:B8:85:LEU:HB2	2.22	0.40
5:B8:196:SER:O	5:B8:199:ILE:HG12	2.21	0.40
5:B8:234:LYS:O	5:B8:238:GLU:OE1	2.39	0.40
5:B8:386:LEU:HD22	5:B8:389:LYS:NZ	2.36	0.40
3:BB:151:LEU:O	3:BB:155:ILE:HG12	2.20	0.40
3:BB:250:LEU:HD13	3:BB:253:LEU:HD12	2.03	0.40
4:BC:252:LEU:HD12	4:BC:253:THR:N	2.35	0.40
3:BD:77:ARG:HB3	14:G4:322:LYS:NZ	2.36	0.40
3:BD:92:PHE:HE1	14:G4:307:TYR:CD2	2.38	0.40
3:BD:250:LEU:HD13	3:BD:253:LEU:HD12	2.03	0.40
3:BD:404:ASP:OD1	3:BD:404:ASP:N	2.53	0.40
3:BF:47:ILE:HG13	3:BF:51:TYR:HB2	2.03	0.40
3:BF:102:ALA:O	3:BF:106:TYR:N	2.51	0.40
3:BH:87:PRO:HA	3:BH:90:PHE:CD2	2.56	0.40
3:BH:249:ASP:O	3:BH:253:LEU:HG	2.21	0.40
3:BH:378:PHE:O	3:BH:381:ILE:HG22	2.21	0.40
4:BI:91:GLN:HB2	4:BI:121:ARG:HH21	1.86	0.40
4:BI:167:LEU:HB3	4:BI:169:PHE:CZ	2.56	0.40
4:BI:332:ILE:O	4:BI:336:LYS:HG3	2.21	0.40
4:BK:10:GLY:HA2	4:BK:145:THR:OG1	2.21	0.40
4:BK:88:HIS:CE1	4:BK:90:GLU:HG2	2.50	0.40
4:BK:256:GLN:HE22	3:BL:397:TRP:HE1	1.70	0.40
3:BL:12:CYS:CB	39:BL:501:GTP:H5'	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BL:117:LEU:HB3	3:BL:121:ARG:NH2	2.35	0.40
3:BL:375:GLN:H	3:BL:375:GLN:CD	2.29	0.40
4:BM:7:ILE:O	4:BM:138:PHE:N	2.41	0.40
4:BM:209:ILE:CG2	4:BM:227:LEU:HG	2.52	0.40
7:C2:249:SER:HB3	11:Fk:235:ARG:HH12	1.86	0.40
7:C3:181:LEU:HD13	7:C3:237:LEU:HD23	2.03	0.40
7:C3:379:ILE:HD11	7:C3:441:SER:HB2	2.03	0.40
7:C4:131:LYS:O	7:C4:134:GLN:HG3	2.21	0.40
7:C4:154:ALA:O	7:C4:157:LYS:HB2	2.21	0.40
7:C4:437:ARG:HD2	7:C4:437:ARG:HA	1.73	0.40
7:C5:418:LEU:O	7:C5:421:VAL:HG22	2.21	0.40
7:C7:205:ARG:O	7:C7:206:MET:HE2	2.21	0.40
7:C7:383:LYS:HE3	10:E1:21:TYR:CZ	2.55	0.40
7:C8:270:LYS:HA	7:C8:270:LYS:HD2	1.93	0.40
7:C8:415:MET:HG2	10:E2:109:TYR:CE2	2.56	0.40
7:C9:261:LYS:HE3	7:C9:261:LYS:HB3	1.89	0.40
3:CB:182:PRO:HA	3:CB:381:ILE:HD11	2.03	0.40
3:CB:270:PHE:O	3:CB:298:ASN:ND2	2.53	0.40
4:CC:115:VAL:HG21	4:CC:156:ARG:HD3	2.02	0.40
4:CC:392:ASP:HB2	4:CC:422:ARG:NH2	2.36	0.40
3:CD:73:MET:HE1	3:CD:92:PHE:CB	2.51	0.40
3:CD:228:LEU:O	3:CD:232:THR:HG23	2.21	0.40
4:CE:277:SER:OG	4:CE:280:LYS:HB2	2.21	0.40
4:CE:372:GLN:HB3	4:CE:373:ARG:NH1	2.35	0.40
4:CE:392:ASP:OD1	4:CE:393:HIS:N	2.53	0.40
3:CF:2:ARG:HB2	3:CF:131:GLN:NE2	2.36	0.40
3:CJ:30:ILE:HG13	3:CJ:36:TYR:CD1	2.57	0.40
4:CK:35:GLN:C	4:CK:36:MET:HE2	2.46	0.40
4:CM:19:ALA:O	4:CM:23:LEU:HG	2.21	0.40
4:CM:76:ASP:CG	4:CM:79:ARG:HH21	2.29	0.40
4:CM:90:GLU:OE2	4:DK:280:LYS:HE3	2.21	0.40
4:CM:135:PHE:O	4:CM:167:LEU:HB2	2.21	0.40
7:Ca:222:GLU:HB3	7:Ca:339:GLN:HG2	2.03	0.40
7:Cb:336:MET:SD	7:Cb:337:TRP:N	2.94	0.40
7:Cd:174:LEU:HD12	7:Cd:174:LEU:HA	1.92	0.40
8:D2:32:ASN:ND2	8:D2:39:SER:H	2.19	0.40
8:D2:113:TRP:C	8:D2:218:LYS:HZ2	2.29	0.40
8:D2:137:ARG:HH21	8:D2:286:LEU:HD13	1.86	0.40
8:D2:182:LEU:O	8:D2:186:ILE:HG12	2.21	0.40
8:D3:72:ASP:OD1	8:D3:72:ASP:C	2.64	0.40
8:D3:204:ASN:HD22	8:D3:271:GLU:CD	2.28	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:D3:209:GLU:OE1	10:E2:142:ARG:NH2	2.55	0.40
8:D3:376:ARG:O	8:D3:379:SER:OG	2.24	0.40
8:D4:236:THR:HG23	8:D4:237:GLN:HG2	2.04	0.40
8:D4:239:GLN:H	8:D5:355:THR:HG21	1.86	0.40
8:D6:344:LYS:HA	8:D6:347:GLU:HG3	2.03	0.40
8:D7:194:ILE:O	8:D7:198:VAL:HG13	2.20	0.40
8:D7:313:ASP:HA	11:F2:271:ARG:HH12	1.86	0.40
8:D8:96:GLN:O	8:D8:100:THR:HG23	2.21	0.40
4:DA:254:GLU:OE1	4:DA:254:GLU:N	2.44	0.40
3:DB:156:ARG:NE	3:DB:164:MET:HE3	2.36	0.40
3:DB:391:ARG:C	3:DB:392:LYS:HG3	2.46	0.40
4:DE:46:ASP:HA	4:DE:50:ASN:HB3	2.03	0.40
3:DF:282:ARG:HH22	3:DF:292:GLN:CD	2.24	0.40
4:DG:42:ILE:HG21	4:DG:59:GLY:HA2	2.03	0.40
4:DG:53:PHE:CE1	4:DG:63:PRO:HG3	2.56	0.40
4:DG:166:LYS:N	4:DG:199:ASP:OD2	2.53	0.40
3:DH:392:LYS:HG3	3:DH:395:LEU:HD13	2.03	0.40
4:DI:230:LEU:O	4:DI:234:ILE:HG12	2.21	0.40
4:DI:291:ILE:HA	4:DI:294:ALA:HB3	2.03	0.40
4:DI:331:ALA:O	4:DI:334:THR:OG1	2.35	0.40
4:DK:325:PRO:HB2	3:DL:208:TYR:OH	2.20	0.40
4:DK:402:ARG:O	4:DK:402:ARG:HG2	2.21	0.40
3:DL:8:GLN:NE2	3:DL:17:GLY:HA3	2.36	0.40
3:DL:234:SER:O	3:DL:238:THR:HG23	2.20	0.40
8:Da:61:TYR:O	11:Fh:380:ARG:NH1	2.50	0.40
9:E:562:ASP:OD1	9:E:562:ASP:N	2.54	0.40
10:E2:110:THR:O	10:E2:114:ARG:HG2	2.21	0.40
4:EA:295:CYS:HA	4:EA:300:ASN:HD22	1.84	0.40
3:EB:152:ILE:O	3:EB:156:ARG:HG2	2.21	0.40
3:ED:77:ARG:HA	3:ED:77:ARG:HD2	1.85	0.40
3:ED:188:SER:O	3:ED:192:LEU:HG	2.21	0.40
3:ED:379:LYS:O	3:ED:382:SER:OG	2.22	0.40
4:EE:2:ARG:NH1	4:EE:241:SER:O	2.54	0.40
4:EE:368:LEU:H	4:EE:368:LEU:HD23	1.85	0.40
3:EF:28:HIS:O	3:EF:36:TYR:HE1	2.03	0.40
4:EG:137:ILE:HB	4:EG:168:GLU:HA	2.03	0.40
4:EG:221:ARG:O	15:H4:297:ALA:HA	2.21	0.40
4:EG:386:GLU:HA	4:EG:389:ALA:HB3	2.04	0.40
4:EI:134:GLY:HA3	4:EI:165:SER:OG	2.21	0.40
4:EI:246:GLY:HA2	4:EI:357:TYR:HD2	1.86	0.40
3:EJ:20:PHE:CZ	3:EJ:24:ILE:HD11	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EJ:82:GLY:HA2	3:EJ:85:PHE:HD2	1.86	0.40
3:EJ:134:GLN:HA	3:EJ:165:ASN:O	2.21	0.40
4:EK:183:GLU:N	4:EK:184:PRO:HD2	2.36	0.40
11:F1:476:PHE:CD1	11:F1:477:PRO:HD2	2.57	0.40
11:F2:163:LEU:O	11:F2:167:ASN:ND2	2.54	0.40
11:F3:155:GLU:O	11:F3:159:GLU:OE1	2.40	0.40
11:F3:201:ARG:CZ	11:F3:207:VAL:H	2.34	0.40
11:F3:218:GLU:HG3	11:F3:335:GLN:CD	2.46	0.40
11:F6:98:SER:O	11:F6:102:GLN:OE1	2.39	0.40
11:F7:124:MET:SD	11:F7:125:GLN:N	2.95	0.40
11:F8:212:GLU:O	11:F8:216:ILE:HG13	2.21	0.40
4:FA:50:ASN:OD1	4:FA:51:THR:N	2.53	0.40
4:FA:196:GLU:HG2	4:FA:197:HIS:ND1	2.36	0.40
4:FA:368:LEU:HD23	4:FA:368:LEU:H	1.86	0.40
4:FC:139:HIS:O	4:FC:170:ALA:HA	2.22	0.40
4:FC:224:TYR:O	4:FC:228:ASN:N	2.43	0.40
4:FC:315:CYS:N	4:FC:350:GLY:O	2.53	0.40
3:FD:119:VAL:O	3:FD:122:LYS:HG2	2.21	0.40
3:FF:214:THR:HG23	3:FF:215:LEU:HD22	2.04	0.40
4:FG:83:TYR:HB2	4:FG:87:PHE:CZ	2.56	0.40
4:FG:137:ILE:HB	4:FG:168:GLU:HA	2.03	0.40
4:FG:239:THR:HA	4:FG:242:LEU:HD13	2.03	0.40
3:FJ:99:ASN:HB3	39:FJ:501:GTP:O3B	2.21	0.40
3:FJ:325:GLU:O	3:FJ:329:GLN:HG2	2.21	0.40
3:FL:228:LEU:O	3:FL:232:THR:HG23	2.21	0.40
3:FL:277:GLY:O	3:FL:280:GLN:NE2	2.54	0.40
11:Fb:176:ARG:HD2	11:Fb:176:ARG:HA	1.83	0.40
11:Fc:206:LEU:HD12	11:Fc:206:LEU:O	2.21	0.40
11:Ff:112:TRP:CD1	11:Ff:115:ARG:HH21	2.40	0.40
11:Fh:424:ASP:HA	11:Fh:427:LEU:HD12	2.02	0.40
11:Fi:191:ALA:O	11:Fi:195:LEU:HG	2.21	0.40
11:Fi:363:LYS:HE3	11:Fi:363:LYS:HB3	1.97	0.40
11:Fj:363:LYS:O	11:Fj:367:GLU:OE1	2.39	0.40
11:Fj:364:ILE:HA	11:Fj:367:GLU:CD	2.46	0.40
11:Fj:371:ALA:O	11:Fj:375:ILE:HG13	2.21	0.40
11:Fj:372:GLU:HA	11:Fj:375:ILE:HD12	2.02	0.40
11:Fl:182:GLU:HA	11:Fl:185:ASN:ND2	2.36	0.40
11:Fl:254:ILE:HD12	11:Fl:254:ILE:HA	1.92	0.40
11:Fl:259:SER:O	11:Fl:263:ILE:HG23	2.20	0.40
11:Fl:307:ALA:O	11:Fl:311:ARG:HG3	2.20	0.40
11:Fl:468:LYS:C	11:Fl:472:MET:HE3	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:G:47:TYR:CE1	4:KK:337:THR:HG22	2.56	0.40
12:G:73:LYS:HA	12:G:76:ASP:HB2	2.03	0.40
12:G:114:SER:O	12:G:118:LEU:HG	2.20	0.40
12:G:391:ASN:HA	12:G:394:MET:HE2	2.03	0.40
13:G1:188:ARG:HG3	13:G1:189:PHE:N	2.36	0.40
13:G2:451:ILE:CG1	13:G2:467:LEU:HB3	2.50	0.40
13:G3:92:PHE:O	13:G3:95:LYS:HB2	2.21	0.40
14:G4:575:LYS:NZ	14:G4:736:LEU:HD22	2.36	0.40
14:G5:36:VAL:HB	14:G5:40:LYS:HZ1	1.85	0.40
14:G6:550:GLN:HA	14:G6:553:LYS:HB3	2.02	0.40
4:GA:260:VAL:O	3:GB:397:TRP:HH2	2.04	0.40
4:GA:285:GLN:NE2	4:GA:286:LEU:O	2.54	0.40
3:GB:31:ASP:N	3:GB:31:ASP:OD1	2.54	0.40
3:GB:106:TYR:HB2	3:GB:401:GLU:OE2	2.20	0.40
4:GC:144:GLY:HA3	39:GC:501:GTP:O3G	2.21	0.40
4:GC:420:GLU:HA	4:GC:423:GLU:OE2	2.21	0.40
4:GC:425:LEU:O	4:GC:428:LEU:N	2.54	0.40
4:GC:438:ASP:C	3:GD:391:ARG:HH12	2.28	0.40
3:GD:7:LEU:HB3	3:GD:135:LEU:HD13	2.03	0.40
3:GF:131:GLN:O	3:GF:163:ILE:HG12	2.20	0.40
3:GF:375:GLN:HA	3:GF:378:PHE:CE1	2.56	0.40
3:GF:375:GLN:H	3:GF:375:GLN:CD	2.29	0.40
3:GH:266:PHE:CD1	3:GH:370:ASN:HB2	2.57	0.40
4:GI:102:ASN:CG	4:GI:105:ARG:H	2.29	0.40
4:GI:133:GLN:HB3	4:GI:252:LEU:HD21	2.03	0.40
4:GI:196:GLU:OE1	4:GI:196:GLU:N	2.42	0.40
4:GI:263:PRO:HB2	4:GI:264:ARG:NH1	2.35	0.40
3:GJ:31:ASP:OD1	3:GJ:35:THR:N	2.55	0.40
3:GJ:32:PRO:O	3:GJ:83:GLN:NE2	2.52	0.40
3:GL:223:GLY:O	3:GL:227:HIS:N	2.50	0.40
15:H2:298:LEU:HD23	15:H2:306:ARG:HD3	2.03	0.40
15:H3:12:PRO:O	15:H3:15:HIS:NE2	2.55	0.40
15:H6:288:PHE:HA	15:H6:292:MET:CE	2.51	0.40
3:HB:83:GLN:OE1	3:HB:83:GLN:N	2.44	0.40
3:HB:384:GLN:O	3:HB:388:MET:HG2	2.20	0.40
3:HD:27:GLU:HA	3:HD:359:ARG:HD3	2.03	0.40
3:HD:249:ASP:O	3:HD:252:LYS:HB3	2.21	0.40
3:HH:4:ILE:HG12	3:HH:131:GLN:OE1	2.21	0.40
3:HH:12:CYS:HA	39:HH:501:GTP:HN22	1.85	0.40
3:HJ:12:CYS:O	3:HJ:16:ILE:HD12	2.22	0.40
3:HJ:77:ARG:HD3	3:HJ:90:PHE:CE2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HJ:256:ASN:HB3	3:HJ:350:LYS:HG3	2.03	0.40
4:HK:182:VAL:O	4:HK:185:TYR:HB2	2.21	0.40
3:HL:378:PHE:HA	3:HL:381:ILE:HG22	2.04	0.40
3:HL:403:MET:HG2	3:HL:407:GLU:CD	2.46	0.40
17:I2:50:GLN:O	17:I2:53:ARG:HB2	2.22	0.40
4:IA:166:LYS:HE2	4:IA:166:LYS:HB3	1.91	0.40
4:IA:345:ASP:OD1	4:IA:345:ASP:N	2.54	0.40
4:IC:252:LEU:HA	4:IC:255:PHE:HD2	1.86	0.40
3:ID:77:ARG:HA	3:ID:77:ARG:HD2	1.92	0.40
4:IE:6:SER:HB3	4:IE:65:ALA:HB2	2.03	0.40
4:IE:166:LYS:N	4:IE:199:ASP:OD2	2.54	0.40
3:IF:2:ARG:O	3:IF:49:VAL:HG23	2.21	0.40
3:IH:316:VAL:N	3:IH:366:THR:O	2.46	0.40
3:IH:336:LYS:HD3	3:IH:337:ASN:OD1	2.21	0.40
4:II:6:SER:HB3	4:II:65:ALA:HB2	2.02	0.40
19:J1:117:LEU:HD23	19:J1:135:THR:HG21	2.03	0.40
4:JA:16:ILE:HD11	4:JA:138:PHE:HB3	2.02	0.40
4:JA:209:ILE:HG13	4:JA:302:MET:CE	2.51	0.40
3:JB:311:LEU:HD23	3:JB:342:VAL:HG11	2.02	0.40
3:JB:329:GLN:O	3:JB:333:VAL:HG12	2.20	0.40
4:JC:311:LYS:NZ	4:JC:343:PHE:O	2.52	0.40
4:JC:320:ARG:CZ	4:JC:360:PRO:HA	2.51	0.40
3:JD:51:TYR:CD1	3:JD:61:PRO:HA	2.56	0.40
3:JF:58:LYS:HE3	3:KF:280:GLN:O	2.21	0.40
4:JG:135:PHE:HE2	4:JG:166:LYS:HE3	1.85	0.40
3:JH:311:LEU:HB2	3:JH:370:ASN:O	2.21	0.40
4:JI:196:GLU:HG2	4:JI:197:HIS:ND1	2.36	0.40
21:K2:330:ASN:HA	21:K2:333:CYS:SG	2.62	0.40
21:K2:392:LYS:NZ	21:K2:396:PRO:HG3	2.37	0.40
21:K4:261:ARG:HD2	21:K4:264:TRP:CE3	2.56	0.40
21:K4:349:ARG:O	21:K4:353:THR:HG23	2.20	0.40
4:KA:22:GLU:O	4:KA:26:LEU:HD23	2.21	0.40
4:KA:286:LEU:HD11	4:KA:373:ARG:H	1.86	0.40
3:KB:183:TYR:CZ	3:KB:388:MET:HG3	2.56	0.40
4:KC:25:CYS:O	4:KC:29:GLY:N	2.53	0.40
4:KC:88:HIS:CE1	4:KC:90:GLU:HG2	2.57	0.40
4:KC:399:TYR:OH	4:KC:415:GLU:HB2	2.21	0.40
3:KD:8:GLN:HA	3:KD:136:THR:OG1	2.21	0.40
3:KD:138:SER:HB3	39:KD:501:GTP:H5”	2.03	0.40
3:KD:251:ARG:O	3:KD:255:VAL:HG22	2.21	0.40
4:KG:12:ALA:HB2	39:KG:501:GTP:H5”	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:KG:186:ASN:OD1	4:KG:187:SER:N	2.54	0.40
4:KG:196:GLU:OE1	4:KG:196:GLU:N	2.41	0.40
4:KG:216:ASN:HD21	4:KG:275:VAL:HG23	1.86	0.40
3:KH:20:PHE:HA	3:KH:230:SER:HB2	2.03	0.40
3:KJ:134:GLN:HA	3:KJ:165:ASN:O	2.21	0.40
4:KK:167:LEU:HB3	4:KK:169:PHE:CZ	2.56	0.40
4:KK:280:LYS:HA	4:KK:280:LYS:HD2	1.79	0.40
22:L1:157:TYR:CE1	4:MC:396:ASP:HB2	2.56	0.40
22:L2:54:VAL:HG21	3:LD:113:VAL:HG23	2.02	0.40
22:L2:247:HIS:HA	36:Y:40:GLN:NE2	2.36	0.40
22:L3:32:ARG:O	22:L3:36:LYS:HG2	2.21	0.40
3:LB:272:PRO:HA	3:LB:292:GLN:OE1	2.21	0.40
3:LB:423:GLN:O	3:LB:426:GLN:N	2.53	0.40
4:LC:12:ALA:HB1	39:LC:501:GTP:N3	2.36	0.40
3:LD:67:ASP:HB3	3:LD:73:MET:SD	2.61	0.40
3:LD:217:LEU:O	3:LD:219:THR:N	2.54	0.40
3:LF:65:LEU:HD21	3:LF:73:MET:HG3	2.04	0.40
3:LF:213:ARG:O	3:LF:216:LYS:HE2	2.20	0.40
4:LG:208:ALA:N	4:LG:304:LYS:HZ1	2.10	0.40
3:LH:371:SER:OG	3:LH:372:THR:N	2.54	0.40
4:LI:320:ARG:HD3	4:LI:360:PRO:HG3	2.03	0.40
3:LL:292:GLN:O	3:LL:298:ASN:ND2	2.50	0.40
23:M:55:THR:HA	23:M:101:VAL:CG2	2.51	0.40
3:MB:173:PRO:HD3	3:MB:203:ASP:OD1	2.21	0.40
3:MB:271:ALA:HB1	3:MB:272:PRO:CD	2.47	0.40
4:MC:161:TYR:HB3	4:MC:164:LYS:NZ	2.35	0.40
4:MC:312:TYR:CE2	4:MC:341:ILE:HG23	2.56	0.40
4:MC:362:VAL:HA	4:MC:368:LEU:HD21	2.03	0.40
3:MD:86:ARG:HA	3:MD:87:PRO:HD2	1.98	0.40
3:MD:324:LYS:HE2	4:ME:222:PRO:CG	2.50	0.40
3:MD:324:LYS:HG3	4:ME:221:ARG:NH1	2.35	0.40
4:ME:118:VAL:HA	4:ME:121:ARG:HG2	2.02	0.40
4:ME:196:GLU:OE1	4:ME:196:GLU:N	2.40	0.40
4:MI:50:ASN:OD1	4:MI:51:THR:N	2.54	0.40
4:MI:75:VAL:HG22	4:MI:79:ARG:HH21	1.85	0.40
4:MI:260:VAL:HG23	4:MI:265:ILE:O	2.22	0.40
3:MJ:280:GLN:H	3:MJ:280:GLN:HG3	1.72	0.40
4:MK:34:GLY:HA3	4:MK:60:LYS:HD2	2.04	0.40
3:ML:304:ASP:C	3:ML:306:ARG:H	2.29	0.40
4:MM:21:TRP:HE1	4:MM:65:ALA:HB3	1.86	0.40
4:MM:206:ASN:OD1	4:MM:206:ASN:N	2.53	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MM:263:PRO:O	4:MM:264:ARG:HB2	2.20	0.40
26:N1:88:ASN:O	26:N1:92:ILE:HG13	2.21	0.40
4:NA:256:GLN:HE22	3:NB:397:TRP:HE1	1.68	0.40
4:NA:263:PRO:O	4:NA:264:ARG:HB2	2.20	0.40
4:NA:319:TYR:HA	4:NA:374:ALA:O	2.21	0.40
4:NA:397:LEU:O	4:NA:401:LYS:HG2	2.20	0.40
4:NC:319:TYR:HA	4:NC:374:ALA:O	2.21	0.40
3:ND:165:ASN:OD1	3:ND:166:THR:N	2.54	0.40
4:NE:257:THR:HA	3:NF:397:TRP:CZ2	2.56	0.40
3:NF:183:TYR:CZ	3:NF:395:LEU:HD11	2.56	0.40
4:NG:202:PHE:HD1	4:NG:268:PRO:HD2	1.86	0.40
3:NH:278:SER:O	3:NH:282:ARG:HB2	2.21	0.40
4:NI:1:MET:HE3	4:NI:50:ASN:ND2	2.36	0.40
4:NI:107:HIS:CD2	4:NI:152:LEU:HD13	2.56	0.40
3:NJ:328:GLU:OE2	3:NJ:329:GLN:NE2	2.52	0.40
3:NJ:350:LYS:HE3	4:NK:180:ALA:HA	2.02	0.40
4:NK:208:ALA:HB3	4:NK:302:MET:HA	2.03	0.40
3:NL:156:ARG:CZ	3:NL:164:MET:HE3	2.51	0.40
28:O1:45:ASP:OD1	28:O1:45:ASP:N	2.53	0.40
28:O3:60:PRO:O	28:O3:62:GLY:N	2.54	0.40
4:OA:331:ALA:O	4:OA:334:THR:OG1	2.28	0.40
4:OA:352:LYS:HZ2	3:OB:178:THR:HA	1.86	0.40
3:OB:323:MET:HE2	4:OC:224:TYR:CD1	2.56	0.40
4:OC:90:GLU:HG2	4:OC:121:ARG:NH2	2.36	0.40
4:OC:178:SER:OG	4:OC:180:ALA:O	2.39	0.40
4:OC:229:ARG:NH1	4:OC:233:GLN:HB2	2.36	0.40
4:OC:278:ALA:O	4:OC:370:LYS:NZ	2.54	0.40
4:OC:333:ALA:HA	4:OC:336:LYS:HD2	2.04	0.40
4:OE:263:PRO:O	4:OE:264:ARG:HB2	2.21	0.40
3:OF:3:GLU:O	3:OF:130:LEU:HD12	2.22	0.40
3:OF:51:TYR:CD1	3:OF:61:PRO:HA	2.56	0.40
3:OF:73:MET:HE1	3:OF:92:PHE:HB3	2.03	0.40
3:OF:119:VAL:HA	3:OF:122:LYS:HE3	2.01	0.40
3:OF:258:VAL:HB	4:OG:407:TRP:CZ2	2.56	0.40
4:OG:66:VAL:HG12	4:OG:68:VAL:HG13	2.03	0.40
4:OG:68:VAL:HA	4:OG:93:ILE:HB	2.03	0.40
3:OH:292:GLN:HA	3:OH:295:ASP:OD2	2.21	0.40
4:OI:250:VAL:HB	4:OI:255:PHE:HE1	1.87	0.40
4:OI:384:ILE:HB	4:OI:388:TRP:HZ3	1.86	0.40
3:OJ:73:MET:HE1	3:OJ:92:PHE:CG	2.55	0.40
3:OJ:250:LEU:HD13	3:OJ:253:LEU:HD12	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:OK:399:TYR:CB	4:OK:422:ARG:HH21	2.34	0.40
3:OL:156:ARG:NE	3:OL:164:MET:HE3	2.36	0.40
3:OL:292:GLN:HG2	3:OL:298:ASN:ND2	2.36	0.40
29:P1:519:THR:HA	29:P1:551:MET:HE1	2.03	0.40
29:P2:116:ALA:HB3	29:P2:129:LEU:HB3	2.04	0.40
29:P3:372:VAL:HG12	29:P3:375:MET:HE2	2.02	0.40
4:PA:68:VAL:HA	4:PA:93:ILE:HB	2.02	0.40
4:PC:3:GLU:CD	4:PC:131:GLY:H	2.29	0.40
4:PC:359:PRO:HA	4:PC:360:PRO:HD3	1.97	0.40
3:PD:183:TYR:CZ	3:PD:388:MET:HG3	2.56	0.40
3:PD:249:ASP:O	3:PD:253:LEU:HG	2.21	0.40
3:PD:324:LYS:HE2	4:PE:222:PRO:HD2	2.03	0.40
4:PG:2:ARG:NE	4:PG:242:LEU:HG	2.36	0.40
4:PG:104:ALA:HA	4:PG:107:HIS:HB3	2.02	0.40
4:PG:124:LYS:HZ3	4:PG:125:LEU:CD2	2.34	0.40
4:PG:203:MET:HE1	4:PG:267:PHE:HB3	2.03	0.40
3:PH:305:PRO:HA	3:PH:373:ALA:HB2	2.03	0.40
4:PI:329:ASN:HA	4:PI:332:ILE:HG12	2.03	0.40
3:PJ:180:VAL:HG13	3:PJ:184:ASN:OD1	2.20	0.40
3:PJ:263:LEU:HD12	3:PJ:370:ASN:HD21	1.86	0.40
3:PJ:321:MET:HE3	3:PJ:363:MET:HG3	2.02	0.40
4:PK:1:MET:HE3	4:PK:50:ASN:ND2	2.36	0.40
3:PL:15:GLN:O	3:PL:19:LYS:HE2	2.21	0.40
3:PL:152:ILE:O	3:PL:156:ARG:HG2	2.21	0.40
3:PL:214:THR:HG21	3:PL:273:LEU:HB3	2.02	0.40
3:PL:292:GLN:O	3:PL:298:ASN:ND2	2.45	0.40
3:PL:311:LEU:HB2	3:PL:370:ASN:O	2.21	0.40
4:PM:414:GLU:OE1	4:PM:416:GLY:N	2.36	0.40
30:Q1:1416:ARG:HB3	30:Q1:1451:TRP:NE1	2.35	0.40
30:Q2:1428:GLU:HA	30:Q2:1496:TYR:O	2.21	0.40
30:Q3:1386:TYR:HD2	30:Q3:1394:PHE:HE1	1.67	0.40
30:Q3:1417:ARG:HG3	30:Q3:1419:ARG:HG2	2.02	0.40
4:QC:368:LEU:HD23	4:QC:368:LEU:H	1.85	0.40
4:QC:394:LYS:O	4:QC:398:MET:HG2	2.21	0.40
3:QF:101:TRP:CZ3	3:QF:106:TYR:HE1	2.39	0.40
3:QF:268:PRO:HD2	3:QF:301:ALA:HB2	2.02	0.40
4:QG:161:TYR:HB3	4:QG:164:LYS:HD2	2.01	0.40
3:QH:211:CYS:SG	3:QH:220:PRO:HG3	2.61	0.40
4:QI:254:GLU:OE1	4:QI:254:GLU:N	2.49	0.40
4:QI:397:LEU:O	4:QI:401:LYS:HE2	2.21	0.40
3:QJ:217:LEU:O	3:QJ:219:THR:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:QJ:350:LYS:HE3	4:QK:180:ALA:HA	2.03	0.40
4:QK:136:LEU:HD12	4:QK:169:PHE:CE1	2.56	0.40
4:QM:52:PHE:CZ	4:QM:239:THR:HB	2.52	0.40
31:R3:138:ASN:O	31:R3:142:ARG:N	2.46	0.40
3:RB:41:ASP:OD1	3:RB:41:ASP:N	2.54	0.40
3:RB:313:VAL:HG23	3:RB:349:VAL:HA	2.03	0.40
3:RB:385:PHE:HZ	3:RB:408:PHE:HB3	1.86	0.40
3:RB:422:TYR:O	3:RB:426:GLN:HG3	2.21	0.40
3:RF:7:LEU:HD22	3:RF:135:LEU:HG	2.03	0.40
4:RG:301:GLN:OE1	4:RG:301:GLN:N	2.54	0.40
4:RG:419:SER:O	4:RG:422:ARG:HG2	2.21	0.40
3:RH:14:ASN:ND2	3:RH:67:ASP:OD2	2.55	0.40
4:RI:11:GLN:HB2	4:RI:74:VAL:HG11	2.02	0.40
4:RI:189:LEU:HA	4:RI:192:HIS:ND1	2.36	0.40
4:RI:196:GLU:OE1	4:RI:196:GLU:N	2.47	0.40
4:RI:384:ILE:HB	4:RI:388:TRP:HZ3	1.86	0.40
3:RJ:206:ALA:HB1	3:RJ:300:MET:HA	2.03	0.40
3:RJ:324:LYS:HE2	4:RK:222:PRO:HG2	2.03	0.40
4:RK:396:ASP:N	4:RK:422:ARG:HH12	2.19	0.40
3:RL:15:GLN:HB2	3:RL:222:TYR:HE2	1.85	0.40
3:RL:105:HIS:ND1	3:RL:150:LEU:HG	2.36	0.40
3:RL:173:PRO:HD2	3:RL:205:GLU:CD	2.46	0.40
4:RM:186:ASN:OD1	4:RM:187:SER:N	2.54	0.40
3:SB:39:ASP:OD1	3:SB:39:ASP:N	2.54	0.40
3:SB:312:THR:HA	3:SB:348:ASN:HB2	2.03	0.40
3:SD:137:HIS:O	3:SD:168:SER:HA	2.22	0.40
3:SD:282:ARG:NE	3:SD:288:GLU:OE1	2.49	0.40
3:SH:189:VAL:HA	3:SH:192:LEU:HB2	2.02	0.40
4:SI:135:PHE:O	4:SI:167:LEU:HB2	2.21	0.40
4:SI:425:LEU:HD12	4:SI:428:LEU:HD12	2.03	0.40
3:SJ:77:ARG:HD3	3:SJ:90:PHE:HE2	1.86	0.40
4:SK:148:GLY:O	4:SK:151:SER:OG	2.37	0.40
4:SM:405:VAL:O	4:SM:409:VAL:HG22	2.20	0.40
3:TB:5:VAL:HB	3:TB:133:PHE:CE1	2.56	0.40
3:TB:246:LEU:HB3	3:TB:353:VAL:O	2.21	0.40
4:TE:425:LEU:O	4:TE:428:LEU:N	2.53	0.40
4:TI:2:ARG:HA	4:TI:133:GLN:HE22	1.87	0.40
3:TJ:250:LEU:O	3:TJ:254:ALA:N	2.32	0.40
4:TK:138:PHE:CD1	4:TK:169:PHE:HB2	2.57	0.40
3:TL:10:GLY:O	3:TL:14:ASN:N	2.45	0.40
3:TL:316:VAL:HG22	3:TL:352:ALA:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TL:375:GLN:O	3:TL:379:LYS:HD3	2.20	0.40
4:TM:216:ASN:ND2	4:TM:275:VAL:HG23	2.35	0.40
3:TN:188:SER:O	3:TN:192:LEU:HG	2.21	0.40
33:U:201:ALA:HB1	33:V:534:TYR:HB3	2.03	0.40
4:UA:32:PRO:O	4:UA:85:GLN:NE2	2.53	0.40
4:UA:280:LYS:O	4:UA:284:GLU:HB2	2.22	0.40
3:UB:246:LEU:HD22	3:UB:354:CYS:HA	2.03	0.40
4:UC:104:ALA:O	4:UC:108:TYR:N	2.52	0.40
4:UC:420:GLU:HA	4:UC:423:GLU:OE2	2.21	0.40
4:UC:424:ASP:O	4:UC:428:LEU:HG	2.21	0.40
3:UD:91:VAL:HG11	3:UD:116:VAL:HG12	2.02	0.40
3:UD:389:PHE:HZ	3:UD:405:GLU:HB2	1.86	0.40
4:UE:139:HIS:HE1	4:UE:168:GLU:HB3	1.86	0.40
3:UF:39:ASP:OD1	3:UF:39:ASP:N	2.54	0.40
3:UF:226:ASN:HA	3:UF:229:VAL:HG12	2.03	0.40
3:UF:306:ARG:O	3:UF:306:ARG:NE	2.47	0.40
3:UF:337:ASN:HB2	3:UF:340:TYR:CD2	2.56	0.40
4:UG:171:ILE:HD12	4:UG:204:VAL:HG13	2.03	0.40
4:UG:272:TYR:HE1	4:UG:374:ALA:HB1	1.85	0.40
3:UH:273:LEU:H	3:UH:292:GLN:NE2	2.15	0.40
4:UI:429:GLU:O	4:UI:433:GLU:HG2	2.21	0.40
3:UJ:309:ARG:HH22	3:UJ:344:TRP:HZ3	1.68	0.40
4:UK:176:GLN:NE2	4:UK:177:VAL:HG23	2.36	0.40
4:UK:224:TYR:HE2	39:UK:501:GTP:C6	2.39	0.40
4:UK:296:PHE:HE1	4:UK:377:MET:HE2	1.86	0.40
3:UL:173:PRO:HD3	3:UL:203:ASP:OD1	2.21	0.40
4:VA:202:PHE:CD1	4:VA:268:PRO:HD2	2.56	0.40
4:VC:1:MET:O	4:VC:133:GLN:NE2	2.49	0.40
4:VC:137:ILE:HG22	4:VC:139:HIS:ND1	2.35	0.40
4:VC:229:ARG:NH1	4:VC:233:GLN:HB2	2.36	0.40
4:VC:327:ASP:OD1	4:VC:328:VAL:N	2.54	0.40
3:VD:3:GLU:OE2	3:VD:127:CYS:HB2	2.21	0.40
4:VE:6:SER:HB3	4:VE:65:ALA:HB2	2.02	0.40
4:VE:418:PHE:O	4:VE:422:ARG:NH2	2.54	0.40
3:VF:51:TYR:CD1	3:VF:61:PRO:HA	2.56	0.40
3:VF:150:LEU:C	3:VF:154:LYS:HZ3	2.29	0.40
4:VG:418:PHE:O	4:VG:422:ARG:NH2	2.55	0.40
4:VI:139:HIS:NE2	4:VI:170:ALA:HB2	2.36	0.40
4:VI:145:THR:HG23	39:VI:501:GTP:O3B	2.19	0.40
3:VJ:20:PHE:CZ	3:VJ:24:ILE:HD11	2.56	0.40
3:VJ:258:VAL:HG22	3:VJ:266:PHE:HZ	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:VK:132:LEU:O	4:VK:132:LEU:HD12	2.20	0.40
4:WC:176:GLN:NE2	4:WC:177:VAL:HG23	2.35	0.40
3:WD:178:THR:HB	3:WD:181:GLU:HB2	2.02	0.40
4:WG:188:ILE:HD11	4:WG:391:LEU:HB3	2.03	0.40
4:WG:280:LYS:HA	4:WG:280:LYS:HD2	1.72	0.40
3:WH:52:ASN:O	3:WH:60:VAL:N	2.54	0.40
3:WH:66:VAL:HG13	3:WH:147:MET:SD	2.61	0.40
3:WH:315:ALA:HA	3:WH:367:PHE:HA	2.02	0.40
4:WI:53:PHE:HD1	4:WI:63:PRO:HA	1.85	0.40
4:WI:70:LEU:HG	4:WI:149:PHE:CZ	2.56	0.40
3:WJ:12:CYS:HB3	39:WJ:501:GTP:H5'	2.02	0.40
3:WJ:216:LYS:HB3	3:WJ:276:ARG:NH2	2.36	0.40
4:WK:186:ASN:OD1	4:WK:187:SER:N	2.54	0.40
4:WK:216:ASN:OD1	4:WK:217:LEU:N	2.54	0.40
3:WL:30:ILE:HG13	3:WL:36:TYR:CD1	2.56	0.40
33:X:478:LEU:O	33:X:481:GLN:HG3	2.22	0.40
34:XA:77:VAL:HA	34:XA:132:ILE:O	2.21	0.40
34:XA:135:ASN:O	34:XA:139:PHE:HD1	2.04	0.40
34:XD:93:VAL:CG2	34:XD:103:PHE:HE2	2.33	0.40
34:XE:81:LYS:HD2	34:XE:129:TRP:NE1	2.35	0.40
35:XH:85:GLU:OE1	35:XH:85:GLU:N	2.45	0.40
36:Y:158:VAL:HG23	36:Z:487:MET:SD	2.61	0.40
37:YE:42:PRO:HA	37:YE:133:HIS:HB3	2.03	0.40
37:YF:5:LYS:NZ	37:YF:152:ILE:HG12	2.36	0.40
37:YF:21:GLN:HG3	37:YF:65:ILE:HD11	2.03	0.40
37:YJ:148:MET:HE2	37:YJ:148:MET:HA	2.03	0.40
37:YN:5:LYS:O	37:YN:8:LEU:HG	2.21	0.40
37:YN:7:SER:O	37:YN:10:SER:OG	2.36	0.40
37:YP:32:CYS:HA	37:YP:56:TYR:CE1	2.57	0.40
37:YS:6:GLU:O	37:YS:9:ARG:HG2	2.20	0.40
2:A1:115:CYS:HA	2:A1:118:TYR:HD2	1.86	0.40
2:A2:81:LEU:O	2:A2:84:LEU:HG	2.21	0.40
2:A4:21:LYS:HD2	2:A4:21:LYS:C	2.46	0.40
2:A4:91:LEU:HD23	2:A4:239:LYS:HE3	2.03	0.40
4:AC:389:ALA:O	4:AC:393:HIS:HD2	2.04	0.40
3:AD:261:PRO:HD3	4:AE:406:HIS:CG	2.57	0.40
3:AD:350:LYS:NZ	4:AE:181:VAL:HG13	2.36	0.40
4:AE:214:ARG:HH11	4:AE:215:ARG:HG3	1.86	0.40
4:AG:99:ALA:HB3	4:AG:144:GLY:O	2.21	0.40
3:AH:2:ARG:HB3	3:AH:131:GLN:CD	2.46	0.40
3:AH:321:MET:N	3:AH:321:MET:SD	2.94	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AI:90:GLU:HG2	4:AI:121:ARG:NH2	2.36	0.40
4:AI:98:ASP:O	4:AI:105:ARG:NH2	2.33	0.40
4:AI:408:TYR:HB3	4:AI:413:MET:HE2	2.04	0.40
3:AJ:132:GLY:HA3	3:AJ:163:ILE:H	1.85	0.40
3:AJ:325:GLU:HG2	3:AJ:326:VAL:H	1.85	0.40
3:AJ:350:LYS:HE3	4:AK:181:VAL:H	1.87	0.40
4:AK:6:SER:HB3	4:AK:65:ALA:HB2	2.03	0.40
4:AK:50:ASN:OD1	4:AK:51:THR:N	2.54	0.40
4:AM:286:LEU:HD23	4:AM:286:LEU:H	1.87	0.40
1:B:464:PRO:HA	4:GG:42:ILE:HB	2.03	0.40
5:B2:234:LYS:O	5:B2:238:GLU:OE1	2.38	0.40
5:B3:316:THR:HG21	5:B4:199:ILE:CA	2.51	0.40
5:B4:67:ARG:O	5:B4:71:VAL:HG23	2.21	0.40
5:B5:19:THR:O	5:B5:23:LEU:HG	2.21	0.40
5:B6:6:PHE:HD2	5:B6:11:ARG:HH12	1.69	0.40
5:B6:46:ARG:HG3	5:B6:47:ASN:N	2.35	0.40
5:B7:55:TRP:CE2	7:C2:115:HIS:HD2	2.40	0.40
5:B9:275:PHE:HA	5:B9:278:GLU:CD	2.46	0.40
3:BB:249:ASP:O	3:BB:253:LEU:HG	2.22	0.40
3:BB:385:PHE:O	3:BB:388:MET:HG2	2.22	0.40
3:BB:392:LYS:HD2	3:BB:392:LYS:O	2.20	0.40
4:BC:36:MET:HE3	4:BC:61:HIS:CE1	2.55	0.40
4:BC:47:ASP:HB3	4:BC:49:PHE:CE2	2.56	0.40
4:BC:317:MET:HB2	4:BC:375:VAL:HG21	2.02	0.40
3:BD:10:GLY:H	3:BD:147:MET:HE1	1.86	0.40
3:BD:114:ASP:OD1	3:BD:114:ASP:N	2.54	0.40
4:BE:51:THR:HG23	4:BE:52:PHE:HD2	1.85	0.40
4:BE:132:LEU:HD12	4:BE:132:LEU:O	2.21	0.40
3:BF:113:VAL:HA	3:BF:116:VAL:HG22	2.03	0.40
4:BG:47:ASP:O	4:BG:50:ASN:N	2.30	0.40
4:BG:117:LEU:O	4:BG:121:ARG:HG2	2.21	0.40
4:BG:154:MET:HE3	4:BG:194:THR:HG22	2.03	0.40
4:BG:285:GLN:HE22	4:BG:287:SER:HB3	1.86	0.40
3:BH:9:ALA:HB3	3:BH:137:HIS:HB3	2.03	0.40
3:BH:55:THR:HA	15:H4:28:ARG:HH12	1.86	0.40
3:BH:173:PRO:O	3:BH:380:ARG:NH2	2.54	0.40
4:BK:21:TRP:HD1	4:BK:67:PHE:HZ	1.68	0.40
4:BK:399:TYR:OH	4:BK:415:GLU:HG3	2.21	0.40
3:BL:318:ARG:C	3:BL:321:MET:HE1	2.46	0.40
4:BM:104:ALA:O	4:BM:108:TYR:N	2.52	0.40
4:BM:333:ALA:O	4:BM:337:THR:HG23	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:56:MET:HE2	6:C:65:PHE:HB2	2.03	0.40
6:C:105:GLN:HG2	6:C:106:LEU:N	2.35	0.40
6:C:260:CYS:O	6:C:262:ILE:HD12	2.22	0.40
7:C2:214:GLU:HA	7:C2:217:LYS:HD2	2.03	0.40
7:C2:246:SER:HA	11:Fk:235:ARG:CZ	2.52	0.40
7:C2:302:LYS:HA	7:C2:302:LYS:HD3	1.76	0.40
7:C2:330:ILE:O	7:C2:334:ASN:ND2	2.54	0.40
7:C3:357:ALA:C	7:C3:462:LYS:HZ3	2.29	0.40
7:C4:207:GLY:O	7:C4:210:LEU:HD22	2.21	0.40
7:C5:382:ILE:HD12	7:C5:438:LEU:HB3	2.02	0.40
7:C8:257:ASP:O	7:C8:261:LYS:HG2	2.21	0.40
3:CB:266:PHE:CB	3:CB:368:ILE:HD11	2.51	0.40
3:CB:350:LYS:HE3	4:CC:181:VAL:N	2.36	0.40
3:CB:391:ARG:C	3:CB:392:LYS:HG3	2.46	0.40
4:CC:115:VAL:HA	4:CC:118:VAL:HG22	2.03	0.40
3:CD:385:PHE:HA	3:CD:388:MET:HG2	2.03	0.40
4:CE:207:GLU:HB2	4:CE:304:LYS:NZ	2.34	0.40
4:CE:336:LYS:HZ3	3:CF:174:LYS:HB2	1.86	0.40
4:CE:352:LYS:NZ	3:CF:178:THR:HA	2.36	0.40
4:CE:420:GLU:HA	4:CE:423:GLU:OE2	2.21	0.40
3:CF:47:ILE:HG13	3:CF:51:TYR:HB2	2.02	0.40
4:CG:21:TRP:CZ3	4:CG:63:PRO:HB3	2.56	0.40
4:CG:79:ARG:HG2	15:H3:218:ILE:HD12	2.03	0.40
3:CH:66:VAL:HA	3:CH:91:VAL:O	2.20	0.40
3:CH:101:TRP:HB2	3:CH:184:ASN:HD22	1.87	0.40
4:CI:174:ALA:HB3	4:CI:177:VAL:O	2.21	0.40
4:CI:327:ASP:OD1	4:CI:328:VAL:N	2.54	0.40
3:CJ:337:ASN:HB2	3:CJ:340:TYR:CD2	2.56	0.40
4:CK:252:LEU:HD12	4:CK:253:THR:N	2.36	0.40
4:CK:296:PHE:CE2	4:CK:335:ILE:HG21	2.56	0.40
3:CL:4:ILE:HB	3:CL:50:TYR:CE1	2.55	0.40
3:CL:101:TRP:HB2	3:CL:184:ASN:HD22	1.85	0.40
4:CM:88:HIS:HE1	4:CM:90:GLU:HG2	1.86	0.40
7:Ca:346:ALA:O	7:Ca:350:ARG:HG2	2.22	0.40
7:Cb:156:TRP:HA	7:Cb:159:GLU:OE1	2.21	0.40
7:Cc:133:GLN:HE21	11:Ff:151:PHE:HD1	1.68	0.40
7:Cc:309:LEU:HD22	20:K:274:PRO:HG2	2.03	0.40
6:D:112:LYS:HD3	6:D:181:GLU:HG2	2.03	0.40
6:D:313:GLU:HG2	6:D:316:ASP:HB3	2.03	0.40
6:D:348:ASP:HB3	6:D:351:ILE:HG12	2.02	0.40
8:D2:95:THR:HB	8:D3:380:GLU:HG2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:D2:311:LEU:O	8:D2:314:SER:OG	2.26	0.40
8:D4:162:ARG:NH1	8:D4:167:LEU:HA	2.37	0.40
8:D6:333:GLU:HA	8:D6:336:ILE:HD12	2.03	0.40
8:D8:162:ARG:HH22	8:D8:168:VAL:H	1.69	0.40
8:D8:321:HIS:HA	8:D8:324:LYS:NZ	2.36	0.40
8:D8:340:LYS:HA	8:D8:343:ILE:HD12	2.04	0.40
8:D9:128:THR:HA	8:D9:131:MET:HG2	2.03	0.40
4:DA:422:ARG:HA	4:DA:422:ARG:HD2	1.86	0.40
3:DB:316:VAL:N	3:DB:366:THR:O	2.44	0.40
4:DC:196:GLU:HG2	4:DC:197:HIS:ND1	2.36	0.40
3:DD:52:ASN:CG	3:DD:62:ARG:HD3	2.46	0.40
3:DD:325:GLU:O	3:DD:329:GLN:HG2	2.21	0.40
4:DE:201:ALA:H	4:DE:266:HIS:HD2	1.68	0.40
4:DE:414:GLU:HG2	4:DE:417:GLU:OE1	2.21	0.40
3:DF:324:LYS:HE2	4:DG:222:PRO:HG2	2.02	0.40
4:DG:140:SER:HB2	4:DG:171:ILE:HG22	2.03	0.40
3:DJ:181:GLU:HB3	3:DJ:182:PRO:HD3	2.03	0.40
3:DJ:292:GLN:HA	3:DJ:295:ASP:OD2	2.21	0.40
4:DK:16:ILE:HD12	4:DK:16:ILE:H	1.86	0.40
4:DK:185:TYR:OH	4:DK:403:ALA:O	2.24	0.40
3:DL:278:SER:O	3:DL:282:ARG:HB2	2.21	0.40
8:Da:54:ASP:N	8:Da:54:ASP:OD1	2.54	0.40
9:E:423:SER:C	9:E:424:LYS:HD2	2.46	0.40
10:E1:131:GLY:N	10:E1:132:PRO:HD2	2.36	0.40
10:E2:51:PHE:HD1	10:E2:59:ALA:O	2.04	0.40
4:EA:375:VAL:HG13	4:EA:377:MET:SD	2.62	0.40
3:EB:65:LEU:HD23	3:EB:65:LEU:H	1.86	0.40
3:EB:295:ASP:HB2	3:EB:298:ASN:HB2	2.04	0.40
4:EC:3:GLU:CD	4:EC:132:LEU:H	2.30	0.40
4:EC:316:CYS:HB3	4:EC:378:LEU:HB2	2.03	0.40
4:EE:35:GLN:OE1	14:G5:712:TYR:OH	2.37	0.40
4:EE:207:GLU:HB2	4:EE:304:LYS:NZ	2.34	0.40
4:EG:172:TYR:HB2	4:EG:203:MET:HB2	2.03	0.40
4:EG:207:GLU:HB2	4:EG:304:LYS:NZ	2.37	0.40
3:EH:295:ASP:HB2	3:EH:298:ASN:HB2	2.03	0.40
3:EH:324:LYS:HG3	4:EI:221:ARG:NH1	2.35	0.40
4:EI:49:PHE:O	4:EI:52:PHE:N	2.53	0.40
4:EI:146:GLY:N	39:EI:501:GTP:O2B	2.51	0.40
3:EL:189:VAL:HG21	3:EL:378:PHE:CZ	2.56	0.40
11:F1:363:LYS:HZ3	11:F2:110:ARG:HH21	1.69	0.40
11:F1:451:LEU:O	11:F1:455:LEU:HD23	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:F2:388:PRO:HA	11:F2:391:MET:HE1	2.03	0.40
11:F2:450:ARG:O	11:F2:454:GLU:OE1	2.39	0.40
11:F3:91:THR:CG2	14:G5:746:GLU:HG2	2.52	0.40
11:F3:423:ILE:O	11:F3:426:THR:OG1	2.25	0.40
11:F3:444:LEU:HD12	11:F3:444:LEU:HA	1.95	0.40
11:F4:309:ASN:O	11:F4:313:ASN:ND2	2.54	0.40
11:F7:110:ARG:HB3	11:F8:367:GLU:OE2	2.21	0.40
11:F7:198:ARG:HD2	11:F7:198:ARG:HA	1.84	0.40
11:F7:454:GLU:O	11:F7:458:LYS:HG2	2.22	0.40
4:FA:206:ASN:HA	4:FA:209:ILE:HD12	2.03	0.40
4:FC:47:ASP:O	4:FC:49:PHE:N	2.54	0.40
4:FC:286:LEU:H	4:FC:286:LEU:HD23	1.87	0.40
3:FD:197:ASP:HA	3:FD:264:HIS:ND1	2.36	0.40
3:FD:325:GLU:HG2	3:FD:326:VAL:N	2.37	0.40
4:FE:95:GLY:C	4:FE:96:LYS:HD3	2.47	0.40
4:FE:235:VAL:HA	4:FE:238:ILE:HG12	2.03	0.40
4:FE:285:GLN:NE2	4:FE:286:LEU:O	2.55	0.40
3:FF:48:ASN:HA	3:FF:51:TYR:O	2.20	0.40
3:FF:269:GLY:HA3	3:FF:367:PHE:HB3	2.03	0.40
3:FH:325:GLU:HG2	3:FH:326:VAL:H	1.87	0.40
4:FI:21:TRP:HZ2	4:FI:65:ALA:HB2	1.87	0.40
3:FJ:87:PRO:HA	3:FJ:90:PHE:CD2	2.56	0.40
4:FK:21:TRP:HD1	4:FK:67:PHE:HZ	1.70	0.40
4:FK:255:PHE:O	4:FK:259:LEU:HB2	2.21	0.40
11:Fa:356:LYS:HD2	11:Fa:356:LYS:HA	1.88	0.40
11:Fa:412:PRO:HA	11:Fa:415:ARG:HE	1.85	0.40
11:Fb:94:ASP:HA	11:Fb:97:ARG:NH1	2.35	0.40
11:Fb:366:GLN:HA	11:Fb:369:PHE:CZ	2.56	0.40
11:Fb:378:LEU:O	11:Fb:382:ILE:HG13	2.21	0.40
11:Fe:201:ARG:HB2	11:Fe:205:ASP:OD2	2.21	0.40
11:Ff:443:LEU:O	11:Ff:447:THR:HG23	2.21	0.40
11:Fj:247:GLN:O	11:Fj:250:LEU:N	2.55	0.40
11:Fk:240:ILE:HG23	11:Fk:244:ARG:HH12	1.86	0.40
11:Fl:357:LEU:HD22	11:Fl:451:LEU:HD22	2.03	0.40
11:Fl:373:ASN:O	11:Fl:377:LEU:HD23	2.20	0.40
11:Fl:435:ARG:O	11:Fl:438:GLN:HG3	2.21	0.40
11:Fm:371:ALA:O	11:Fm:374:THR:N	2.54	0.40
13:G1:382:PRO:HA	13:G1:383:PRO:HD3	1.91	0.40
13:G1:435:ASP:OD1	13:G1:435:ASP:N	2.53	0.40
13:G2:313:LEU:HD23	13:G2:314:GLU:O	2.21	0.40
13:G2:415:ASN:ND2	13:G2:444:LEU:HB3	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:G3:107:VAL:HG21	13:G3:113:GLU:HG2	2.04	0.40
13:G3:211:PRO:O	13:G3:215:LEU:HG	2.20	0.40
14:G4:9:ASN:HA	14:G4:11:PHE:CZ	2.56	0.40
14:G4:203:THR:O	14:G4:207:VAL:HG23	2.21	0.40
14:G4:436:TYR:HB3	14:G4:522:LEU:HD11	2.03	0.40
14:G5:257:ASP:HB3	14:G5:259:THR:HG22	2.03	0.40
14:G5:699:TRP:HB2	14:G5:702:ASN:ND2	2.36	0.40
14:G6:170:CYS:SG	14:G6:175:LYS:HE3	2.62	0.40
14:G6:380:PRO:HA	14:G6:381:PRO:HD3	1.91	0.40
14:G6:467:GLU:HB3	14:G6:478:GLY:N	2.36	0.40
4:GA:51:THR:HG23	4:GA:52:PHE:CD2	2.57	0.40
3:GB:267:MET:HA	3:GB:268:PRO:HD3	1.93	0.40
3:GB:270:PHE:HD2	3:GB:273:LEU:HD21	1.86	0.40
3:GB:324:LYS:HE2	4:GC:222:PRO:CD	2.51	0.40
4:GC:206:ASN:OD1	4:GC:206:ASN:N	2.54	0.40
4:GC:402:ARG:HB2	4:GC:405:VAL:HG11	2.02	0.40
4:GE:16:ILE:HG22	4:GE:228:ASN:OD1	2.21	0.40
4:GE:139:HIS:O	4:GE:170:ALA:HA	2.21	0.40
4:GE:175:PRO:O	4:GE:390:ARG:HD3	2.21	0.40
3:GF:91:VAL:HA	23:M:124:MET:CE	2.51	0.40
3:GF:269:GLY:HA3	3:GF:367:PHE:HB3	2.04	0.40
4:GG:23:LEU:HA	4:GG:26:LEU:HD12	2.02	0.40
4:GG:72:PRO:HA	4:GG:75:VAL:HG12	2.02	0.40
4:GG:192:HIS:CE1	4:GG:193:THR:HG23	2.56	0.40
4:GG:243:ARG:C	4:GG:243:ARG:HD2	2.46	0.40
3:GH:390:ARG:HA	3:GH:390:ARG:HD2	1.88	0.40
4:GI:5:ILE:O	4:GI:135:PHE:HA	2.22	0.40
4:GI:269:LEU:HD11	4:GI:302:MET:SD	2.61	0.40
3:GL:3:GLU:OE2	3:GL:127:CYS:HB2	2.22	0.40
15:H1:30:GLN:HA	15:H1:37:ARG:HH22	1.87	0.40
15:H3:227:ARG:CZ	15:H3:227:ARG:HB3	2.51	0.40
15:H4:227:ARG:HA	15:H4:230:TRP:CE3	2.57	0.40
4:HA:118:VAL:HA	4:HA:121:ARG:CG	2.50	0.40
3:HB:19:LYS:NZ	3:HB:223:GLY:O	2.54	0.40
3:HB:21:TRP:CZ2	3:HB:63:ALA:HB2	2.56	0.40
3:HB:412:GLU:HA	3:HB:415:MET:HE2	2.02	0.40
4:HC:88:HIS:CD2	4:IC:283:HIS:CE1	3.08	0.40
4:HC:90:GLU:CD	4:IC:280:LYS:HZ2	2.26	0.40
3:HD:6:HIS:HB2	3:HD:134:GLN:NE2	2.36	0.40
3:HD:127:CYS:SG	3:HD:130:LEU:HD21	2.60	0.40
3:HD:141:GLY:HA3	39:HD:501:GTP:H5"	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HD:148:GLY:O	3:HD:152:ILE:HG12	2.20	0.40
3:HD:324:LYS:HE2	4:HE:222:PRO:HG2	2.02	0.40
3:HF:412:GLU:OE2	3:HF:416:ASN:ND2	2.49	0.40
4:HG:36:MET:HG3	4:HG:41:THR:OG1	2.21	0.40
3:HH:12:CYS:SG	39:HH:501:GTP:H5'	2.61	0.40
3:HH:19:LYS:O	3:HH:23:VAL:HG23	2.21	0.40
3:HH:347:ASN:HB3	4:HI:178:SER:HB3	2.03	0.40
4:HI:49:PHE:O	4:HI:52:PHE:N	2.52	0.40
4:HI:311:LYS:HZ2	4:HI:342:GLN:HB3	1.87	0.40
3:HJ:325:GLU:HA	3:HJ:328:GLU:HG3	2.04	0.40
4:HK:261:PRO:HA	3:HL:394:PHE:CE1	2.50	0.40
4:HK:311:LYS:HE3	4:HK:344:VAL:HG12	2.03	0.40
4:HK:368:LEU:H	4:HK:368:LEU:HD23	1.86	0.40
3:HL:375:GLN:HA	3:HL:378:PHE:CE1	2.56	0.40
4:IA:174:ALA:HA	4:IA:175:PRO:HD3	1.98	0.40
3:IB:174:LYS:HG3	3:IB:175:VAL:HG12	2.03	0.40
3:IB:254:ALA:HA	3:IB:257:MET:HB3	2.04	0.40
3:IB:374:ILE:HG22	3:IB:378:PHE:CE2	2.56	0.40
4:IC:105:ARG:O	4:IC:109:THR:OG1	2.24	0.40
4:IC:174:ALA:HB3	4:IC:177:VAL:O	2.21	0.40
4:IC:216:ASN:OD1	4:IC:217:LEU:N	2.55	0.40
4:IC:392:ASP:O	4:IC:396:ASP:N	2.45	0.40
4:IE:206:ASN:HA	4:IE:209:ILE:HD12	2.02	0.40
3:IF:423:GLN:O	3:IF:427:ASP:N	2.53	0.40
4:IG:187:SER:OG	4:IG:188:ILE:HD12	2.20	0.40
4:IG:279:GLU:O	4:IG:282:TYR:HB3	2.22	0.40
4:IG:390:ARG:O	4:IG:394:LYS:HG3	2.21	0.40
4:II:90:GLU:HG2	4:II:121:ARG:NH2	2.35	0.40
4:IK:336:LYS:HD2	4:IK:351:PHE:HE2	1.85	0.40
3:IL:180:VAL:HA	3:IL:183:TYR:HD1	1.86	0.40
4:IM:143:GLY:HA3	4:IM:147:SER:H	1.87	0.40
4:IM:166:LYS:HB3	4:IM:168:GLU:OE2	2.21	0.40
4:IM:270:ALA:HA	4:IM:378:LEU:HA	2.03	0.40
18:J:87:HIS:CE1	18:J:91:PRO:HA	2.56	0.40
19:J1:32:ASN:O	19:J1:105:CYS:N	2.54	0.40
19:J1:102:LEU:H	19:J1:102:LEU:HD23	1.87	0.40
19:J1:162:ARG:HH12	19:J1:164:THR:HG23	1.86	0.40
4:JC:387:ALA:O	4:JC:391:LEU:HG	2.22	0.40
3:JD:39:ASP:OD1	3:JD:39:ASP:N	2.53	0.40
3:JD:51:TYR:CD2	3:JD:59:TYR:HB3	2.56	0.40
3:JD:392:LYS:O	3:JD:392:LYS:HD2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:JE:401:LYS:HG2	4:JE:401:LYS:H	1.61	0.40
3:JH:406:MET:SD	3:NH:306:ARG:HD3	2.62	0.40
4:JI:254:GLU:OE1	4:JI:254:GLU:N	2.47	0.40
3:JJ:21:TRP:CZ2	3:JJ:63:ALA:HB2	2.57	0.40
3:JJ:120:VAL:O	3:JJ:124:ALA:N	2.45	0.40
3:JJ:271:ALA:HB3	3:JJ:365:ALA:H	1.85	0.40
3:JJ:375:GLN:HA	3:JJ:378:PHE:CE1	2.56	0.40
4:JK:397:LEU:O	4:JK:401:LYS:HG2	2.21	0.40
3:JL:216:LYS:O	3:JL:276:ARG:NH2	2.53	0.40
21:K1:398:VAL:O	21:K1:401:TYR:HB3	2.21	0.40
21:K2:185:ARG:O	21:K2:187:LYS:N	2.54	0.40
21:K3:396:PRO:O	21:K3:400:MET:HG2	2.20	0.40
21:K4:142:ARG:HD3	21:K4:264:TRP:HD1	1.84	0.40
21:K4:254:LYS:HG2	3:KJ:414:ASN:OD1	2.21	0.40
4:KA:311:LYS:N	4:KA:382:THR:OG1	2.50	0.40
3:KB:130:LEU:HB2	3:KB:162:ARG:HH11	1.86	0.40
4:KC:119:LEU:HA	4:KC:122:ILE:HG12	2.03	0.40
4:KC:124:LYS:HZ3	4:KC:125:LEU:CD2	2.34	0.40
4:KC:401:LYS:H	4:KC:401:LYS:HG2	1.64	0.40
4:KE:262:TYR:CE1	3:KF:393:ALA:HA	2.56	0.40
3:KF:6:HIS:HB2	3:KF:134:GLN:NE2	2.36	0.40
3:KF:7:LEU:HD22	3:KF:135:LEU:HG	2.03	0.40
3:KF:117:LEU:HD23	3:KF:117:LEU:HA	1.92	0.40
3:KF:271:ALA:HB3	3:KF:365:ALA:H	1.86	0.40
4:KG:22:GLU:HG2	4:KG:83:TYR:HE2	1.86	0.40
4:KG:174:ALA:HB1	4:KG:207:GLU:OE2	2.21	0.40
4:KG:224:TYR:CE1	39:KG:501:GTP:C6	3.10	0.40
3:KH:174:LYS:HG2	3:KH:205:GLU:OE2	2.21	0.40
3:KH:317:PHE:HB3	3:KH:321:MET:HE3	2.03	0.40
3:KH:375:GLN:NE2	3:KH:422:TYR:HB3	2.36	0.40
3:KH:407:GLU:OE1	3:KH:407:GLU:N	2.52	0.40
4:KI:265:ILE:HD12	4:KI:432:TYR:CE1	2.56	0.40
4:KI:316:CYS:N	4:KI:378:LEU:O	2.27	0.40
3:KJ:350:LYS:NZ	4:KK:181:VAL:HG13	2.37	0.40
4:KK:99:ALA:HB3	4:KK:144:GLY:O	2.21	0.40
4:KK:263:PRO:HD3	3:KL:396:HIS:CD2	2.56	0.40
4:KK:285:GLN:NE2	4:KK:286:LEU:O	2.54	0.40
4:KK:399:TYR:OH	4:KK:415:GLU:HB2	2.22	0.40
4:KK:426:ALA:O	4:KK:430:LYS:HG2	2.21	0.40
3:KL:152:ILE:HD12	3:KL:195:ASN:HB2	2.03	0.40
3:KL:355:ASP:OD1	3:KL:355:ASP:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KL:390:ARG:HA	3:KL:390:ARG:HD2	1.87	0.40
20:L:239:LEU:HD23	20:L:248:GLU:HA	2.03	0.40
22:L2:149:LYS:HA	22:L2:149:LYS:HD3	1.97	0.40
22:L3:49:MET:HG2	3:MH:336:LYS:HD3	2.02	0.40
4:LA:406:HIS:HA	4:LA:409:VAL:HG22	2.03	0.40
3:LB:117:LEU:HA	3:LB:117:LEU:HD23	1.86	0.40
3:LB:164:MET:HG3	3:LB:196:THR:HA	2.03	0.40
3:LB:293:MET:CE	3:LB:367:PHE:HB2	2.46	0.40
4:LC:24:TYR:HA	4:LC:27:GLU:OE2	2.21	0.40
4:LC:188:ILE:HG22	4:LC:421:ALA:HB1	2.02	0.40
3:LD:280:GLN:HE21	27:Q:74:LYS:NZ	2.19	0.40
4:LE:386:GLU:HA	4:LE:389:ALA:HB3	2.03	0.40
4:LE:402:ARG:O	4:LE:402:ARG:HG2	2.21	0.40
4:LG:68:VAL:HG12	4:LG:93:ILE:HB	2.04	0.40
4:LG:236:SER:C	4:LG:243:ARG:HH22	2.27	0.40
4:LG:257:THR:HA	3:LH:397:TRP:CZ2	2.56	0.40
4:LG:264:ARG:NH1	28:O2:84:ARG:HB2	2.36	0.40
4:LI:31:GLN:OE1	4:LI:31:GLN:N	2.54	0.40
4:LI:34:GLY:O	4:LI:60:LYS:HA	2.21	0.40
3:LJ:271:ALA:HB1	3:LJ:272:PRO:CD	2.50	0.40
3:LJ:382:SER:O	3:LJ:386:THR:HG23	2.22	0.40
3:LL:91:VAL:HG11	3:LL:116:VAL:HG12	2.02	0.40
3:LL:190:HIS:ND1	3:LL:411:ALA:HA	2.36	0.40
3:LL:293:MET:HE2	3:LL:367:PHE:HB3	2.03	0.40
3:MB:79:GLY:O	27:O:19:ARG:NH2	2.49	0.40
4:MC:117:LEU:O	4:MC:121:ARG:HG2	2.22	0.40
4:MC:167:LEU:HD13	4:MC:200:CYS:HB2	2.03	0.40
4:MC:246:GLY:HA3	4:MC:355:ILE:O	2.21	0.40
4:MC:252:LEU:HA	4:MC:255:PHE:CD2	2.56	0.40
4:MC:420:GLU:HA	4:MC:423:GLU:OE2	2.21	0.40
3:MD:8:GLN:OE1	3:MD:65:LEU:HD13	2.21	0.40
3:MD:234:SER:O	3:MD:238:THR:HG23	2.22	0.40
3:MD:247:ASN:OD1	4:ME:11:GLN:HG2	2.21	0.40
4:MG:70:LEU:HB3	4:MG:97:GLU:O	2.21	0.40
4:MG:187:SER:O	4:MG:191:THR:HG23	2.21	0.40
3:MH:32:PRO:HA	3:MH:81:PHE:CE1	2.56	0.40
3:MH:150:LEU:C	3:MH:154:LYS:HZ3	2.29	0.40
3:MH:290:THR:HG21	3:MH:329:GLN:HB3	2.02	0.40
3:MH:386:THR:O	3:MH:390:ARG:HB2	2.21	0.40
3:MH:409:THR:OG1	30:Q2:1419:ARG:NH1	2.53	0.40
4:MI:3:GLU:OE2	4:MI:130:THR:N	2.43	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MI:123:ARG:HD3	26:N3:72:ASP:OD2	2.21	0.40
4:MI:141:PHE:CD2	4:MI:173:PRO:HD3	2.56	0.40
4:MI:320:ARG:CZ	4:MI:360:PRO:HA	2.50	0.40
3:MJ:11:GLN:HG3	39:MJ:501:GTP:O5'	2.21	0.40
4:MK:66:VAL:HG12	4:MK:68:VAL:HG13	2.03	0.40
3:ML:28:HIS:CE1	3:ML:43:GLN:HG3	2.56	0.40
3:ML:77:ARG:HA	3:ML:77:ARG:HD2	1.91	0.40
3:ML:249:ASP:O	3:ML:253:LEU:HG	2.22	0.40
3:ML:272:PRO:HA	3:ML:292:GLN:OE1	2.21	0.40
3:NB:320:ARG:NH1	3:NB:355:ASP:HB2	2.36	0.40
3:ND:12:CYS:HB3	39:ND:501:GTP:C5'	2.51	0.40
3:ND:12:CYS:HB3	39:ND:501:GTP:H5'	2.03	0.40
3:ND:223:GLY:HA2	3:ND:226:ASN:OD1	2.21	0.40
4:NE:319:TYR:HB2	4:NE:355:ILE:HD13	2.04	0.40
3:NF:85:PHE:HB2	3:NF:90:PHE:HZ	1.87	0.40
4:NG:224:TYR:HA	4:NG:227:LEU:HB2	2.03	0.40
3:NH:39:ASP:OD1	3:NH:39:ASP:N	2.54	0.40
4:NI:271:THR:HB	4:NI:377:MET:HB2	2.03	0.40
3:NJ:311:LEU:HB2	3:NJ:370:ASN:O	2.21	0.40
3:NJ:372:THR:HB	3:NJ:375:GLN:HE22	1.86	0.40
4:NK:160:ASP:OD1	4:NK:161:TYR:N	2.55	0.40
4:NK:263:PRO:HB2	4:NK:264:ARG:NH1	2.35	0.40
3:NL:172:SER:OG	3:NL:205:GLU:OE2	2.22	0.40
3:NL:309:ARG:HE	3:NL:426:GLN:HE21	1.69	0.40
3:NL:384:GLN:O	3:NL:388:MET:HG2	2.22	0.40
28:O2:75:PRO:HA	28:O2:95:TRP:CZ2	2.56	0.40
28:O3:25:ALA:O	28:O3:26:ARG:HG3	2.21	0.40
4:OA:117:LEU:O	4:OA:121:ARG:HG2	2.20	0.40
4:OA:132:LEU:HD23	4:OA:164:LYS:HE2	2.02	0.40
4:OA:192:HIS:CE1	4:OA:193:THR:HG23	2.56	0.40
4:OC:11:GLN:HG2	39:OC:501:GTP:PG	2.62	0.40
4:OC:387:ALA:O	4:OC:390:ARG:HG2	2.21	0.40
3:OD:312:THR:OG1	3:OD:370:ASN:HB3	2.21	0.40
3:OD:319:GLY:N	3:OD:321:MET:HE1	2.36	0.40
4:OE:19:ALA:HA	4:OE:22:GLU:OE1	2.21	0.40
4:OE:172:TYR:N	4:OE:204:VAL:O	2.38	0.40
4:OE:317:MET:HE1	4:OE:351:PHE:HB3	2.03	0.40
3:OF:34:GLY:HA3	3:OF:58:LYS:HG3	2.02	0.40
3:OF:40:SER:HB2	3:OF:43:GLN:CD	2.46	0.40
3:OF:257:MET:O	3:OF:259:PRO:HD3	2.20	0.40
3:OF:309:ARG:O	3:OF:371:SER:OG	2.27	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:OG:2:ARG:NH2	4:OG:250:VAL:O	2.54	0.40
4:OG:175:PRO:HB3	4:OG:390:ARG:HD2	2.02	0.40
4:OG:405:VAL:O	4:OG:409:VAL:HG22	2.21	0.40
3:OH:6:HIS:HB2	3:OH:134:GLN:NE2	2.35	0.40
27:P:295:LYS:HA	27:P:298:LEU:HD12	2.03	0.40
29:P1:389:ILE:O	29:P1:400:ALA:HA	2.22	0.40
29:P1:441:VAL:O	29:P1:457:LEU:N	2.40	0.40
29:P3:172:GLU:OE2	29:P3:187:LEU:N	2.54	0.40
4:PA:54:SER:N	4:PA:62:VAL:O	2.54	0.40
4:PA:274:PRO:HG3	4:PA:374:ALA:HA	2.03	0.40
4:PC:254:GLU:OE1	4:PC:254:GLU:N	2.51	0.40
3:PD:214:THR:HG23	3:PD:215:LEU:HD12	2.02	0.40
4:PE:326:LYS:H	4:PE:326:LYS:HG2	1.74	0.40
3:PF:11:GLN:HE21	39:PF:501:GTP:H3'	1.85	0.40
4:PG:32:PRO:O	4:PG:85:GLN:NE2	2.54	0.40
3:PH:245:GLN:HE22	4:PI:15:GLN:NE2	2.19	0.40
4:PI:71:GLU:OE1	4:PI:71:GLU:N	2.55	0.40
4:PI:272:TYR:HE1	4:PI:374:ALA:HB1	1.86	0.40
4:PK:104:ALA:HA	4:PK:107:HIS:HB3	2.03	0.40
4:PK:185:TYR:HA	4:PK:395:PHE:HE1	1.85	0.40
3:PL:87:PRO:HA	3:PL:90:PHE:CD2	2.57	0.40
3:PL:134:GLN:HA	3:PL:165:ASN:HB3	2.03	0.40
3:PL:293:MET:HE3	3:PL:367:PHE:CB	2.51	0.40
4:PM:6:SER:HB3	4:PM:65:ALA:HB2	2.03	0.40
4:PM:101:ASN:HA	4:PM:144:GLY:HA2	2.03	0.40
4:PM:138:PHE:CD1	4:PM:169:PHE:HB2	2.56	0.40
4:PM:246:GLY:HA2	4:PM:357:TYR:CD2	2.57	0.40
4:PM:263:PRO:O	4:PM:264:ARG:HB2	2.22	0.40
27:Q:82:ARG:O	27:Q:85:ARG:HG2	2.21	0.40
27:Q:114:ASP:HB2	27:Q:120:LYS:HZ1	1.86	0.40
30:Q1:1416:ARG:HB3	30:Q1:1451:TRP:CD1	2.56	0.40
30:Q3:1411:GLU:C	30:Q3:1418:MET:HE1	2.46	0.40
30:Q3:1427:LYS:HB2	30:Q3:1499:LYS:CB	2.50	0.40
30:Q3:1515:LEU:HD12	30:Q3:1515:LEU:HA	1.88	0.40
3:QB:58:LYS:HE2	3:RB:281:TYR:HE1	1.87	0.40
3:QB:166:THR:OG1	3:QB:198:GLU:O	2.29	0.40
3:QB:182:PRO:HA	3:QB:381:ILE:HD11	2.03	0.40
4:QC:16:ILE:HD11	4:QC:138:PHE:HB3	2.03	0.40
4:QC:71:GLU:OE1	4:QC:71:GLU:N	2.55	0.40
4:QC:201:ALA:HB3	4:QC:267:PHE:CD1	2.56	0.40
4:QC:279:GLU:O	4:QC:283:HIS:HD2	2.05	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:QC:413:MET:N	4:QC:413:MET:SD	2.95	0.40
3:QD:30:ILE:HG13	3:QD:36:TYR:CD1	2.55	0.40
3:QD:34:GLY:HA3	3:QD:58:LYS:NZ	2.36	0.40
4:QE:34:GLY:HA2	4:QE:86:LEU:CD2	2.51	0.40
4:QE:70:LEU:HA	4:QE:95:GLY:HA3	2.02	0.40
4:QE:113:GLU:OE1	4:QE:113:GLU:N	2.52	0.40
4:QE:430:LYS:HA	4:QE:433:GLU:HG3	2.03	0.40
3:QF:255:VAL:HB	4:QG:404:PHE:CZ	2.56	0.40
4:QG:35:GLN:HG2	4:QG:59:GLY:O	2.21	0.40
3:QH:324:LYS:HD3	4:QI:210:TYR:HE1	1.86	0.40
4:QI:72:PRO:HA	4:QI:75:VAL:HG12	2.03	0.40
4:QI:117:LEU:O	4:QI:121:ARG:HG2	2.20	0.40
3:QJ:258:VAL:HB	4:QK:407:TRP:CZ2	2.56	0.40
3:QJ:269:GLY:HA3	3:QJ:367:PHE:HB3	2.02	0.40
3:QJ:271:ALA:HB1	3:QJ:272:PRO:HD2	2.02	0.40
4:QK:52:PHE:CZ	4:QK:239:THR:HB	2.55	0.40
4:QK:201:ALA:HB3	4:QK:267:PHE:CD1	2.57	0.40
4:QK:246:GLY:HA2	4:QK:357:TYR:CD2	2.57	0.40
3:QL:305:PRO:HA	3:QL:373:ALA:HB2	2.03	0.40
3:QL:324:LYS:HD3	4:QM:210:TYR:HE1	1.87	0.40
27:R:161:GLU:HA	27:R:164:LEU:HB2	2.03	0.40
27:R:342:ASN:O	27:R:346:ALA:N	2.46	0.40
31:R2:271:ARG:CZ	31:R2:280:TYR:HE2	2.34	0.40
31:R3:136:ARG:O	31:R3:140:LEU:HG	2.21	0.40
3:RB:309:ARG:NH1	3:RB:342:VAL:HA	2.37	0.40
4:RC:2:ARG:HA	4:RC:133:GLN:NE2	2.36	0.40
4:RC:149:PHE:O	4:RC:153:LEU:HD23	2.22	0.40
4:RC:213:CYS:HA	4:RC:217:LEU:HB2	2.01	0.40
4:RC:328:VAL:O	4:RC:332:ILE:HG12	2.22	0.40
4:RE:272:TYR:HE1	4:RE:374:ALA:HB1	1.86	0.40
4:RE:317:MET:HB2	4:RE:375:VAL:HG21	2.03	0.40
4:RE:363:VAL:HG13	4:RE:366:GLY:HA3	2.03	0.40
3:RF:32:PRO:C	3:RF:83:GLN:HE21	2.25	0.40
3:RF:149:THR:HG21	3:RF:188:SER:HA	2.03	0.40
3:RF:261:PRO:HD3	4:RG:406:HIS:CG	2.56	0.40
4:RG:208:ALA:HA	4:RG:211:ASP:HB2	2.03	0.40
4:RG:269:LEU:O	4:RG:378:LEU:HA	2.22	0.40
3:RH:224:ASP:O	3:RH:228:LEU:HG	2.22	0.40
3:RH:267:MET:HG3	3:RH:369:GLY:O	2.21	0.40
4:RI:174:ALA:HB3	4:RI:177:VAL:O	2.21	0.40
3:RJ:51:TYR:CD1	3:RJ:61:PRO:HA	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:RK:252:LEU:HD13	4:RK:255:PHE:CD2	2.55	0.40
3:RL:324:LYS:HE2	4:RM:222:PRO:CD	2.51	0.40
3:RL:332:ASN:O	3:RL:336:LYS:N	2.51	0.40
4:RM:318:LEU:O	4:RM:375:VAL:HA	2.21	0.40
4:SC:351:PHE:O	4:SC:352:LYS:HD3	2.22	0.40
4:SC:394:LYS:HG3	4:SC:395:PHE:N	2.37	0.40
3:SD:260:PHE:HB3	3:SD:262:ARG:NH1	2.34	0.40
4:SE:316:CYS:N	4:SE:378:LEU:O	2.40	0.40
4:SE:420:GLU:HA	4:SE:423:GLU:OE2	2.22	0.40
3:SF:174:LYS:HG2	3:SF:205:GLU:OE2	2.21	0.40
3:SF:192:LEU:O	3:SF:196:THR:HG22	2.22	0.40
4:SG:12:ALA:O	39:SG:501:GTP:N1	2.54	0.40
3:SH:385:PHE:HB3	3:SH:408:PHE:HZ	1.86	0.40
3:SJ:87:PRO:HA	3:SJ:90:PHE:CD2	2.56	0.40
4:SK:117:LEU:O	4:SK:121:ARG:HG2	2.21	0.40
3:SL:11:GLN:HG3	39:SL:501:GTP:O5'	2.21	0.40
3:SL:137:HIS:O	3:SL:168:SER:HA	2.21	0.40
3:SL:192:LEU:O	3:SL:196:THR:HG22	2.20	0.40
4:SM:161:TYR:HB3	4:SM:164:LYS:NZ	2.36	0.40
4:SM:214:ARG:HH11	4:SM:215:ARG:HG3	1.86	0.40
4:SM:216:ASN:OD1	4:SM:217:LEU:N	2.54	0.40
4:TC:122:ILE:O	4:TC:126:ALA:N	2.48	0.40
4:TC:132:LEU:O	4:TC:132:LEU:HD12	2.21	0.40
4:TC:368:LEU:HD23	4:TC:368:LEU:H	1.86	0.40
3:TD:152:ILE:HD12	3:TD:195:ASN:HB2	2.03	0.40
3:TD:163:ILE:HD13	3:TD:250:LEU:HB2	2.02	0.40
3:TF:11:GLN:O	3:TF:14:ASN:HB2	2.21	0.40
3:TF:239:CYS:SG	3:TF:316:VAL:HG11	2.61	0.40
3:TF:324:LYS:HD2	4:TG:221:ARG:HA	2.02	0.40
4:TG:166:LYS:HB3	4:TG:168:GLU:OE2	2.21	0.40
3:TH:259:PRO:HA	4:TI:404:PHE:CE1	2.56	0.40
4:TI:51:THR:HG23	4:TI:52:PHE:CD2	2.56	0.40
4:TI:321:GLY:HA3	4:TI:372:GLN:O	2.21	0.40
3:TJ:359:ARG:NE	36:Z:345:ASP:OD2	2.54	0.40
3:TJ:374:ILE:HG22	3:TJ:378:PHE:CD2	2.55	0.40
4:TK:424:ASP:O	4:TK:428:LEU:HD23	2.21	0.40
3:TL:349:VAL:HG22	3:TL:351:THR:HG23	2.03	0.40
4:TM:229:ARG:NH1	4:TM:233:GLN:HB2	2.36	0.40
3:TN:30:ILE:HG13	3:TN:36:TYR:CD1	2.57	0.40
3:TN:374:ILE:HG22	3:TN:378:PHE:CD2	2.55	0.40
3:TN:386:THR:O	3:TN:390:ARG:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:U:142:VAL:HA	33:U:145:ARG:HG2	2.03	0.40
33:U:255:VAL:O	33:U:259:ARG:HG2	2.22	0.40
4:UA:203:MET:CE	4:UA:267:PHE:HB3	2.48	0.40
4:UC:119:LEU:HD23	4:UC:122:ILE:HD12	2.03	0.40
4:UC:257:THR:HA	3:UD:397:TRP:CZ2	2.56	0.40
3:UD:2:ARG:HH22	3:UD:251:ARG:NH2	2.19	0.40
4:UE:271:THR:HB	4:UE:377:MET:HB2	2.03	0.40
4:UE:317:MET:HE1	4:UE:351:PHE:HB2	2.03	0.40
4:UE:345:ASP:OD1	4:UE:345:ASP:N	2.51	0.40
3:UF:311:LEU:HD23	3:UF:342:VAL:HG11	2.04	0.40
4:UG:9:VAL:HA	4:UG:68:VAL:HG23	2.02	0.40
4:UG:262:TYR:HE1	3:UH:393:ALA:HA	1.86	0.40
4:UG:263:PRO:O	4:UG:264:ARG:HB2	2.21	0.40
4:UG:313:MET:SD	4:UG:313:MET:N	2.94	0.40
3:UH:3:GLU:OE2	3:UH:129:CYS:N	2.53	0.40
3:UH:69:GLU:CD	3:UH:71:GLY:H	2.29	0.40
3:UH:162:ARG:HA	3:UH:162:ARG:HD3	1.97	0.40
4:UI:89:PRO:HD2	4:VI:280:LYS:NZ	2.35	0.40
3:UL:224:ASP:O	3:UL:228:LEU:HG	2.21	0.40
3:UL:289:LEU:O	3:UL:293:MET:HG2	2.22	0.40
3:UL:392:LYS:HD2	3:UL:392:LYS:O	2.21	0.40
4:VA:319:TYR:HA	4:VA:374:ALA:O	2.21	0.40
4:VA:322:ASP:OD1	4:VA:322:ASP:N	2.50	0.40
3:VB:28:HIS:O	3:VB:43:GLN:NE2	2.54	0.40
3:VB:174:LYS:HG2	3:VB:205:GLU:OE2	2.21	0.40
3:VB:399:THR:HG22	3:VB:403:MET:O	2.21	0.40
3:VD:292:GLN:HA	3:VD:295:ASP:OD2	2.20	0.40
3:VF:344:TRP:CH2	4:VG:403:ALA:HB2	2.54	0.40
4:VG:417:GLU:O	4:VG:420:GLU:HG2	2.22	0.40
3:VH:388:MET:HE3	3:VH:389:PHE:CE2	2.57	0.40
4:VI:301:GLN:N	4:VI:301:GLN:OE1	2.55	0.40
3:VJ:180:VAL:HG13	3:VJ:184:ASN:OD1	2.22	0.40
3:VJ:206:ALA:O	3:VJ:210:ILE:HG12	2.21	0.40
3:VJ:391:ARG:C	3:VJ:392:LYS:HG3	2.46	0.40
33:W:380:GLN:HB3	33:W:382:TYR:CE1	2.56	0.40
4:WA:45:GLY:HA2	4:WA:49:PHE:HE1	1.86	0.40
3:WB:54:ALA:HB3	3:WB:58:LYS:HB3	2.03	0.40
4:WC:175:PRO:HB3	4:WC:390:ARG:HD2	2.04	0.40
4:WC:196:GLU:OE1	4:WC:196:GLU:N	2.45	0.40
3:WD:324:LYS:HD3	4:WE:210:TYR:CE1	2.56	0.40
3:WF:311:LEU:HD22	3:WF:425:TYR:HE2	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WG:5:ILE:O	4:WG:135:PHE:HA	2.22	0.40
3:WH:117:LEU:HB3	3:WH:121:ARG:NH2	2.36	0.40
4:WI:160:ASP:OD1	4:WI:161:TYR:N	2.54	0.40
3:WJ:12:CYS:O	3:WJ:16:ILE:HG12	2.20	0.40
4:WK:46:ASP:HA	4:WK:50:ASN:HB3	2.03	0.40
4:WK:166:LYS:N	4:WK:199:ASP:OD2	2.53	0.40
4:WK:333:ALA:HA	4:WK:336:LYS:HD2	2.03	0.40
33:X:479:ARG:HG3	33:X:480:ARG:HH12	1.86	0.40
33:X:502:ARG:HH11	33:X:506:GLU:CD	2.28	0.40
34:XG:26:ASP:CG	34:XG:63:ALA:HA	2.46	0.40
34:XG:109:GLN:HB2	34:XG:122:PRO:HA	2.01	0.40
35:XH:89:TYR:CZ	35:XH:122:GLY:HA3	2.56	0.40
35:XH:96:PHE:HE2	35:XH:115:ILE:HG13	1.87	0.40
35:XM:144:ARG:NH1	35:XM:144:ARG:O	2.53	0.40
35:XM:181:LEU:HA	35:XM:184:PHE:CD2	2.57	0.40
36:Y:146:VAL:HG23	36:Y:147:LYS:HG2	2.03	0.40
36:Y:235:GLU:HB3	36:Y:239:ARG:HH12	1.87	0.40
37:YA:46:ILE:HD12	37:YA:46:ILE:H	1.86	0.40
37:YC:110:LEU:HD23	37:YC:140:LEU:HD22	2.04	0.40
37:YC:117:TYR:CG	37:YC:118:PRO:HA	2.56	0.40
37:YD:59:ASN:HB2	37:YD:62:HIS:CE1	2.56	0.40
37:YF:141:ILE:O	37:YF:145:LEU:HG	2.21	0.40
37:YK:130:ALA:HA	37:YK:134:TYR:HB2	2.02	0.40
37:YL:162:VAL:HA	37:YL:165:HIS:ND1	2.36	0.40
37:YN:125:LEU:HB3	37:YN:130:ALA:HB2	2.04	0.40
37:YO:22:GLN:NE2	37:YO:26:ILE:HD11	2.36	0.40
37:YP:34:GLU:HA	37:YP:39:LYS:HE2	2.03	0.40
37:YT:143:ILE:HD13	37:YT:143:ILE:HA	1.96	0.40
37:YV:41:ARG:NH1	37:YV:48:GLN:OE1	2.54	0.40
37:YV:72:ILE:O	37:YV:75:GLU:HG3	2.21	0.40
38:a:50:ARG:HH21	38:a:54:THR:HA	1.86	0.40
1:A:27:ASN:OD1	1:A:28:ILE:N	2.54	0.40
1:A:266:GLU:O	1:A:270:ILE:HG12	2.22	0.40
2:A1:79:ASP:HA	2:A1:82:GLU:OE2	2.20	0.40
2:A1:326:VAL:O	2:A2:217:TRP:HZ3	2.04	0.40
2:A3:80:LYS:HA	2:A3:80:LYS:HD3	1.80	0.40
2:A3:84:LEU:CD2	2:A3:168:LYS:HB2	2.51	0.40
2:A3:162:ARG:HH11	2:A3:165:ARG:NH2	1.99	0.40
2:A3:330:ARG:HH12	2:A4:212:VAL:N	2.20	0.40
2:A4:80:LYS:HD3	5:B1:263:PHE:CZ	2.56	0.40
4:AC:19:ALA:HA	4:AC:22:GLU:OE1	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AC:401:LYS:HA	4:AC:402:ARG:HH11	1.87	0.40
3:AD:304:ASP:O	3:AD:307:HIS:ND1	2.50	0.40
3:AD:378:PHE:HA	3:AD:381:ILE:HG12	2.03	0.40
4:AE:72:PRO:HA	4:AE:75:VAL:HG12	2.04	0.40
4:AE:90:GLU:OE1	4:AE:90:GLU:N	2.55	0.40
4:AE:389:ALA:HA	4:AE:392:ASP:OD2	2.21	0.40
4:AE:402:ARG:HG3	35:XI:233:PRO:HB2	2.03	0.40
4:AG:419:SER:HA	4:AG:422:ARG:HH21	1.86	0.40
4:AG:419:SER:O	4:AG:422:ARG:HG2	2.22	0.40
3:AH:318:ARG:HD3	3:AH:358:PRO:HG3	2.04	0.40
4:AI:319:TYR:HB2	4:AI:355:ILE:HD13	2.03	0.40
3:AJ:215:LEU:O	3:AJ:276:ARG:NH1	2.54	0.40
4:AK:189:LEU:HA	4:AK:192:HIS:HD1	1.86	0.40
4:AK:296:PHE:HE1	4:AK:377:MET:HE2	1.86	0.40
3:AL:249:ASP:O	3:AL:253:LEU:HG	2.22	0.40
4:AM:205:ASP:OD2	4:AM:304:LYS:NZ	2.40	0.40
4:AM:210:TYR:HE1	4:AM:227:LEU:HD21	1.87	0.40
1:B:408:VAL:HG11	4:HI:370:LYS:HD2	2.04	0.40
5:B2:193:ASN:OD1	5:B2:194:LEU:HD23	2.21	0.40
5:B3:85:LEU:HD11	5:B3:172:LEU:HD12	2.03	0.40
5:B3:90:ASP:CG	5:B3:94:GLN:HE22	2.30	0.40
5:B6:177:ARG:HA	5:B6:180:MET:HG3	2.03	0.40
5:B8:123:ARG:NH1	5:B8:386:LEU:HD12	2.37	0.40
5:B8:217:GLN:O	5:B8:218:TRP:C	2.63	0.40
3:BB:4:ILE:CD1	3:BB:131:GLN:HB2	2.51	0.40
3:BB:230:SER:HA	3:BB:233:MET:HE2	2.03	0.40
4:BE:39:ASP:OD1	4:BE:39:ASP:N	2.54	0.40
3:BF:198:GLU:HA	3:BF:266:PHE:HE2	1.86	0.40
3:BF:266:PHE:HB3	3:BF:368:ILE:HD11	2.03	0.40
3:BF:309:ARG:O	3:BF:371:SER:OG	2.27	0.40
4:BG:201:ALA:H	4:BG:266:HIS:HD2	1.67	0.40
4:BG:206:ASN:OD1	4:BG:206:ASN:N	2.54	0.40
4:BG:359:PRO:HA	4:BG:360:PRO:HD3	1.95	0.40
3:BH:174:LYS:HG2	3:BH:205:GLU:OE2	2.21	0.40
4:BI:22:GLU:O	4:BI:26:LEU:HD23	2.21	0.40
4:BI:102:ASN:ND2	4:BI:105:ARG:HG3	2.36	0.40
3:BJ:4:ILE:HG12	3:BJ:131:GLN:OE1	2.21	0.40
3:BJ:48:ASN:HD21	15:H5:23:PHE:CB	2.33	0.40
3:BJ:65:LEU:HD21	3:BJ:73:MET:HG2	2.01	0.40
3:BJ:130:LEU:HB2	3:BJ:162:ARG:HH11	1.86	0.40
3:BL:52:ASN:ND2	3:BL:62:ARG:HD3	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:199:ASN:OD1	6:C:200:SER:N	2.49	0.40
6:C:264:LYS:HG2	6:C:372:ALA:O	2.21	0.40
7:C2:467:TYR:O	7:C2:468:ILE:C	2.64	0.40
7:C3:219:LEU:O	7:C3:223:VAL:HG23	2.21	0.40
7:C7:205:ARG:HH21	7:C7:211:VAL:H	1.69	0.40
3:CB:198:GLU:HA	3:CB:266:PHE:CE2	2.53	0.40
4:CC:45:GLY:HA2	4:CC:49:PHE:HE1	1.86	0.40
4:CC:110:ILE:O	4:CC:114:ILE:HG12	2.21	0.40
4:CC:286:LEU:HD11	4:CC:373:ARG:H	1.85	0.40
3:CD:134:GLN:HA	3:CD:165:ASN:O	2.22	0.40
3:CD:324:LYS:HE2	4:CE:222:PRO:CG	2.52	0.40
4:CE:139:HIS:HE1	4:CE:168:GLU:HB3	1.87	0.40
4:CE:186:ASN:HA	4:CE:189:LEU:HD12	2.03	0.40
3:CF:3:GLU:OE1	3:CF:3:GLU:N	2.53	0.40
3:CH:271:ALA:HB1	3:CH:272:PRO:CD	2.51	0.40
3:CH:302:ALA:HB1	3:CH:377:LEU:HD21	2.02	0.40
3:CH:361:LEU:HD22	3:CH:364:SER:HB3	2.03	0.40
3:CH:378:PHE:CD1	3:CH:419:VAL:HG22	2.57	0.40
4:CI:214:ARG:NH1	4:CI:215:ARG:HG3	2.37	0.40
4:CI:438:ASP:C	3:CJ:391:ARG:HH12	2.29	0.40
4:CK:226:ASN:HA	4:CK:229:ARG:HD3	2.04	0.40
4:CK:359:PRO:HA	4:CK:360:PRO:HD3	2.01	0.40
3:CL:267:MET:O	3:CL:368:ILE:HD12	2.21	0.40
3:CL:385:PHE:HD1	3:CL:388:MET:HE2	1.86	0.40
4:CM:186:ASN:O	4:CM:190:THR:HG23	2.21	0.40
7:Cb:146:LEU:HD23	7:Cb:146:LEU:HA	1.84	0.40
7:Cc:134:GLN:NE2	7:Cc:135:ILE:HG13	2.36	0.40
8:D1:78:ARG:HB2	8:D2:335:GLN:HE22	1.87	0.40
8:D2:184:ARG:O	8:D2:188:GLU:OE1	2.40	0.40
8:D3:96:GLN:O	8:D3:100:THR:HG23	2.22	0.40
8:D3:238:VAL:O	8:D3:238:VAL:HG13	2.21	0.40
8:D3:285:ILE:HD13	8:D3:285:ILE:HA	1.95	0.40
8:D4:145:THR:O	8:D4:148:PRO:HD2	2.22	0.40
8:D7:301:ASN:CG	8:D7:434:ARG:HH21	2.28	0.40
8:D8:98:ASP:OD2	8:D8:102:LYS:HD2	2.21	0.40
8:D8:365:ASN:CG	8:D8:366:VAL:H	2.28	0.40
8:D8:376:ARG:NH1	11:Fi:439:ASP:OD2	2.55	0.40
8:D9:376:ARG:HH12	8:Da:98:ASP:CG	2.29	0.40
4:DC:21:TRP:HD1	4:DC:67:PHE:HZ	1.68	0.40
4:DC:431:ASP:HA	4:DC:434:GLU:OE1	2.21	0.40
3:DD:130:LEU:HD13	3:DD:133:PHE:CE1	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DD:269:GLY:O	3:DD:367:PHE:N	2.35	0.40
4:DE:167:LEU:HD13	4:DE:200:CYS:HB2	2.03	0.40
4:DE:336:LYS:HE2	3:DF:175:VAL:HB	2.02	0.40
3:DF:84:ILE:C	3:DF:86:ARG:HH22	2.29	0.40
3:DF:188:SER:O	3:DF:192:LEU:HG	2.21	0.40
4:DI:174:ALA:HB3	4:DI:177:VAL:O	2.21	0.40
4:DI:234:ILE:O	4:DI:237:SER:OG	2.33	0.40
3:DJ:231:ALA:C	3:DJ:234:SER:HG	2.28	0.40
4:DK:167:LEU:HD13	4:DK:200:CYS:SG	2.61	0.40
3:DL:39:ASP:N	3:DL:39:ASP:OD1	2.54	0.40
3:DL:52:ASN:CG	3:DL:62:ARG:HD3	2.47	0.40
10:E2:105:LEU:HD21	10:E2:109:TYR:HD2	1.86	0.40
10:E4:91:HIS:CD2	10:E4:95:HIS:HE2	2.40	0.40
4:EA:1:MET:O	4:EA:133:GLN:NE2	2.52	0.40
4:EC:278:ALA:O	4:EC:370:LYS:NZ	2.54	0.40
4:EC:324:VAL:HG21	3:ED:219:THR:HG22	2.02	0.40
3:ED:222:TYR:HA	3:ED:225:LEU:HD13	2.04	0.40
3:ED:305:PRO:HB2	3:ED:310:TYR:HE1	1.86	0.40
4:EE:5:ILE:HD13	4:EE:64:ARG:HB3	2.03	0.40
4:EE:140:SER:HA	4:EE:170:ALA:HB1	2.04	0.40
4:EE:246:GLY:HA3	4:EE:355:ILE:O	2.21	0.40
4:EG:7:ILE:N	4:EG:136:LEU:O	2.39	0.40
4:EG:88:HIS:CD2	4:FG:280:LYS:HZ3	2.39	0.40
3:EH:246:LEU:HB3	3:EH:353:VAL:O	2.22	0.40
4:EI:280:LYS:HZ1	4:EI:284:GLU:CD	2.29	0.40
4:EI:332:ILE:O	4:EI:336:LYS:HG3	2.21	0.40
4:EI:333:ALA:HA	4:EI:336:LYS:HD2	2.04	0.40
3:EJ:8:GLN:N	3:EJ:8:GLN:OE1	2.54	0.40
3:EJ:19:LYS:NZ	3:EJ:223:GLY:O	2.53	0.40
3:EL:77:ARG:HA	3:EL:82:GLY:HA3	2.04	0.40
3:EL:103:LYS:HD2	3:EL:107:THR:HB	2.03	0.40
3:EL:227:HIS:ND1	13:G3:387:TYR:HD1	2.17	0.40
11:F1:412:PRO:HD3	11:F2:145:ARG:NH1	2.36	0.40
11:F2:363:LYS:HB2	11:F3:110:ARG:HH22	1.85	0.40
11:F3:219:VAL:O	11:F3:223:LYS:HG2	2.21	0.40
11:F3:291:SER:HB3	11:F3:296:TRP:NE1	2.36	0.40
11:F3:388:PRO:O	11:F3:391:MET:HG2	2.21	0.40
11:F8:336:PHE:O	11:F8:339:THR:OG1	2.25	0.40
11:F8:396:LEU:HD21	11:F8:416:LEU:HB3	2.02	0.40
11:F8:414:PHE:HB3	11:Fj:435:ARG:HH21	1.86	0.40
4:FA:42:ILE:HG23	4:FA:59:GLY:HA2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FA:88:HIS:HE1	4:FA:90:GLU:CD	2.28	0.40
4:FA:139:HIS:CE1	4:FA:168:GLU:HB3	2.57	0.40
4:FA:280:LYS:HD2	4:FA:280:LYS:HA	1.72	0.40
3:FB:12:CYS:HA	3:FB:15:GLN:OE1	2.21	0.40
4:FC:176:GLN:NE2	4:FC:177:VAL:HG23	2.36	0.40
3:FD:11:GLN:O	3:FD:14:ASN:HB2	2.21	0.40
3:FD:32:PRO:HA	3:FD:81:PHE:CE1	2.56	0.40
3:FD:325:GLU:O	3:FD:328:GLU:HG3	2.21	0.40
4:FE:169:PHE:CE1	4:FE:202:PHE:HB2	2.57	0.40
4:FG:16:ILE:HD11	4:FG:138:PHE:HB3	2.04	0.40
3:FH:22:GLU:O	3:FH:25:SER:OG	2.30	0.40
4:FI:21:TRP:HA	4:FI:21:TRP:CE3	2.56	0.40
3:FJ:12:CYS:O	3:FJ:16:ILE:HG12	2.20	0.40
3:FJ:117:LEU:HB3	3:FJ:121:ARG:NH2	2.36	0.40
3:FJ:249:ASP:O	3:FJ:253:LEU:HG	2.22	0.40
4:FK:402:ARG:O	4:FK:402:ARG:HG2	2.21	0.40
3:FL:6:HIS:CE1	3:FL:136:THR:HG23	2.51	0.40
3:FL:52:ASN:ND2	3:FL:62:ARG:HD3	2.37	0.40
11:Fa:160:LEU:O	11:Fa:164:LEU:HG	2.22	0.40
11:Fa:290:VAL:HG23	11:Fa:291:SER:N	2.36	0.40
11:Fa:415:ARG:HG2	11:Fa:415:ARG:H	1.71	0.40
11:Fe:153:LYS:HD2	11:Fe:257:LYS:CE	2.50	0.40
11:Ff:97:ARG:NE	11:Ff:97:ARG:HA	2.37	0.40
11:Fg:307:ALA:O	11:Fg:311:ARG:HG2	2.21	0.40
11:Fj:214:ASN:HA	11:Fj:217:ARG:HG2	2.04	0.40
11:Fk:352:ASP:O	11:Fk:356:LYS:HG2	2.21	0.40
11:Fk:378:LEU:O	11:Fk:382:ILE:N	2.43	0.40
11:Fl:330:ASP:O	11:Fl:334:LYS:HG2	2.20	0.40
11:Fl:378:LEU:HD13	11:Fl:434:LEU:HB2	2.04	0.40
11:Fl:388:PRO:O	11:Fl:392:ALA:N	2.54	0.40
11:Fl:472:MET:HE2	11:Fl:472:MET:HB3	1.93	0.40
11:Fm:159:GLU:HA	11:Fm:162:ARG:HH21	1.87	0.40
12:G:76:ASP:HA	12:G:79:VAL:HG12	2.02	0.40
12:G:148:PHE:HD2	3:GL:33:THR:HG22	1.86	0.40
13:G1:105:GLU:O	13:G1:116:ARG:N	2.34	0.40
13:G2:45:MET:HA	13:G2:45:MET:HE2	2.03	0.40
13:G3:27:ARG:HH12	4:LK:244:PHE:HA	1.84	0.40
13:G3:275:ILE:HB	13:G3:292:MET:HB3	2.04	0.40
14:G4:103:LYS:NZ	14:G4:118:PRO:HG3	2.36	0.40
14:G4:529:THR:O	14:G4:533:MET:HG2	2.20	0.40
14:G6:208:ASP:HB3	14:G6:210:PHE:CZ	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G6:483:ARG:HD3	14:G6:483:ARG:O	2.21	0.40
4:GA:20:CYS:O	4:GA:23:LEU:N	2.54	0.40
4:GA:265:ILE:HA	4:GA:267:PHE:CE2	2.55	0.40
3:GB:12:CYS:HA	39:GB:501:GTP:C2	2.57	0.40
3:GB:77:ARG:HA	3:GB:77:ARG:HD2	1.87	0.40
4:GC:2:ARG:NH1	4:GC:241:SER:O	2.55	0.40
4:GC:5:ILE:HB	4:GC:135:PHE:CD1	2.56	0.40
4:GC:255:PHE:O	4:GC:259:LEU:HB2	2.21	0.40
4:GC:280:LYS:HD2	4:GC:280:LYS:HA	1.82	0.40
4:GE:387:ALA:O	4:GE:391:LEU:HG	2.21	0.40
4:GE:430:LYS:HA	4:GE:433:GLU:CD	2.46	0.40
3:GF:311:LEU:HB2	3:GF:370:ASN:O	2.21	0.40
4:GG:53:PHE:CE1	4:GG:63:PRO:HG3	2.56	0.40
3:GH:47:ILE:HG21	3:GH:59:TYR:CE2	2.57	0.40
3:GH:182:PRO:HB2	3:GH:388:MET:CE	2.51	0.40
3:GH:266:PHE:HD1	3:GH:370:ASN:HB2	1.86	0.40
3:GH:269:GLY:O	3:GH:367:PHE:N	2.36	0.40
4:GI:99:ALA:HB3	4:GI:144:GLY:O	2.22	0.40
3:GJ:66:VAL:HG12	3:GJ:91:VAL:HG13	2.03	0.40
3:GJ:406:MET:O	3:GJ:409:THR:OG1	2.28	0.40
4:GK:21:TRP:CE3	4:GK:24:TYR:HD2	2.39	0.40
4:GK:167:LEU:HD13	4:GK:200:CYS:HB2	2.03	0.40
3:GL:101:TRP:O	3:GL:105:HIS:N	2.52	0.40
3:GL:132:GLY:HA3	3:GL:163:ILE:H	1.86	0.40
3:GL:258:VAL:HG22	3:GL:266:PHE:HZ	1.86	0.40
15:H2:234:MET:HG2	15:H2:235:ASN:N	2.36	0.40
15:H2:295:ASN:ND2	15:H2:306:ARG:HH12	2.19	0.40
15:H6:221:TYR:CD2	15:H6:225:VAL:HG13	2.56	0.40
4:HA:82:THR:OG1	4:HA:83:TYR:N	2.54	0.40
3:HB:73:MET:HA	3:HB:76:VAL:HG22	2.04	0.40
4:HC:84:ARG:HA	4:HC:87:PHE:HD2	1.86	0.40
4:HC:265:ILE:HD12	4:HC:432:TYR:CE1	2.56	0.40
4:HC:274:PRO:HG3	4:HC:374:ALA:HA	2.03	0.40
4:HC:320:ARG:CZ	4:HC:360:PRO:HA	2.51	0.40
3:HD:21:TRP:CZ2	3:HD:63:ALA:HB2	2.56	0.40
3:HD:135:LEU:O	3:HD:135:LEU:HD12	2.22	0.40
4:HE:11:GLN:O	4:HE:14:VAL:HG22	2.21	0.40
4:HE:189:LEU:HA	4:HE:192:HIS:ND1	2.36	0.40
4:HE:192:HIS:CE1	4:HE:193:THR:HG23	2.57	0.40
4:HE:201:ALA:N	4:HE:266:HIS:HD2	2.19	0.40
4:HE:286:LEU:HD23	4:HE:286:LEU:H	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HH:52:ASN:CG	3:HH:62:ARG:HD3	2.46	0.40
3:HH:235:GLY:O	3:HH:238:THR:OG1	2.35	0.40
4:HI:245:ASP:OD1	4:HI:249:ASN:ND2	2.52	0.40
3:HJ:135:LEU:HD22	3:HJ:151:LEU:HD11	2.04	0.40
4:HK:88:HIS:CD2	4:IK:284:GLU:OE2	2.75	0.40
4:HK:145:THR:HG1	39:HK:501:GTP:PB	2.44	0.40
4:HK:265:ILE:HA	4:HK:267:PHE:CE2	2.56	0.40
4:HK:326:LYS:H	4:HK:326:LYS:HG2	1.69	0.40
3:HL:52:ASN:CG	3:HL:62:ARG:HD3	2.46	0.40
4:IA:5:ILE:O	4:IA:135:PHE:HA	2.21	0.40
4:IA:140:SER:HA	4:IA:170:ALA:HB1	2.04	0.40
4:IA:326:LYS:HG3	3:IB:220:PRO:HD2	2.04	0.40
4:IA:412:GLY:O	4:IA:413:MET:HE2	2.21	0.40
4:IC:263:PRO:HB2	4:IC:264:ARG:CZ	2.51	0.40
3:ID:215:LEU:HD23	3:ID:217:LEU:HD21	2.02	0.40
4:IG:132:LEU:O	4:IG:132:LEU:HD12	2.21	0.40
3:IH:51:TYR:CD1	3:IH:61:PRO:HA	2.56	0.40
3:IH:81:PHE:HD1	3:IH:84:ILE:HD13	1.87	0.40
4:II:76:ASP:O	4:II:80:THR:HG23	2.22	0.40
3:IJ:285:THR:O	3:IJ:288:GLU:HG3	2.21	0.40
3:IL:121:ARG:HA	3:IL:124:ALA:HB3	2.04	0.40
3:IL:238:THR:HG21	3:IL:318:ARG:CZ	2.52	0.40
19:J1:128:LEU:HD23	19:J1:128:LEU:HA	1.87	0.40
19:J3:184:TYR:HB3	19:J3:188:LEU:HD23	2.04	0.40
3:JB:6:HIS:HB2	3:JB:134:GLN:NE2	2.37	0.40
4:JE:19:ALA:HA	4:JE:22:GLU:OE1	2.22	0.40
4:JE:90:GLU:HG2	4:JE:121:ARG:NH2	2.36	0.40
4:JE:163:LYS:HA	4:JE:163:LYS:HD3	1.75	0.40
4:JE:210:TYR:HE1	4:JE:227:LEU:HD11	1.86	0.40
4:JG:31:GLN:NE2	4:JG:37:PRO:HD3	2.36	0.40
4:JG:118:VAL:O	4:JG:122:ILE:HG12	2.21	0.40
4:JG:148:GLY:O	4:JG:151:SER:OG	2.38	0.40
4:JG:257:THR:HA	3:JH:397:TRP:CZ2	2.55	0.40
4:JG:321:GLY:N	4:JG:356:ASN:O	2.36	0.40
3:JH:113:VAL:HB	3:JH:154:LYS:HE3	2.02	0.40
3:JH:175:VAL:HG22	3:JH:177:ASP:H	1.86	0.40
3:JH:246:LEU:HD22	3:JH:354:CYS:HA	2.03	0.40
4:JI:54:SER:N	4:JI:62:VAL:O	2.54	0.40
4:JI:167:LEU:HB3	4:JI:169:PHE:CZ	2.57	0.40
3:JJ:8:GLN:NE2	3:JJ:17:GLY:HA3	2.36	0.40
4:JK:2:ARG:NH2	4:JK:250:VAL:O	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:JK:188:ILE:HG22	4:JK:421:ALA:HB1	2.02	0.40
3:JL:134:GLN:HA	3:JL:165:ASN:HB3	2.04	0.40
3:JL:374:ILE:HG22	3:JL:378:PHE:CE2	2.57	0.40
20:K:169:HIS:CE1	20:K:227:THR:HG22	2.55	0.40
21:K2:38:ARG:HA	21:K2:41:GLN:HE22	1.86	0.40
21:K2:336:LEU:HB3	21:K2:464:ARG:NH2	2.37	0.40
21:K3:30:ARG:O	21:K3:34:LEU:HG	2.21	0.40
21:K3:393:LEU:HB3	21:K3:394:ASN:H	1.62	0.40
21:K3:475:GLU:HB2	4:LG:339:ARG:NE	2.37	0.40
21:K3:476:GLN:HA	21:K3:479:ARG:HH11	1.85	0.40
21:K4:241:ARG:HA	21:K4:243:GLN:HE22	1.86	0.40
21:K4:268:THR:HA	21:K4:305:MET:HE1	2.03	0.40
21:K4:328:ILE:O	21:K4:332:VAL:HG23	2.21	0.40
4:KA:202:PHE:CE1	4:KA:268:PRO:HD2	2.56	0.40
4:KA:430:LYS:HA	4:KA:433:GLU:HG3	2.03	0.40
3:KB:101:TRP:HB2	3:KB:184:ASN:ND2	2.36	0.40
3:KB:204:ASN:OD1	3:KB:204:ASN:N	2.54	0.40
4:KC:103:TYR:HB2	4:KC:186:ASN:HB2	2.04	0.40
4:KC:155:GLU:O	4:KC:158:SER:OG	2.29	0.40
4:KC:411:GLU:OE2	4:KC:413:MET:HE1	2.21	0.40
3:KD:271:ALA:HB1	3:KD:272:PRO:CD	2.51	0.40
3:KD:330:MET:HE1	4:KE:177:VAL:HG22	2.03	0.40
4:KE:285:GLN:NE2	4:KE:286:LEU:O	2.54	0.40
3:KF:41:ASP:OD1	3:KF:41:ASP:N	2.48	0.40
3:KF:213:ARG:O	3:KF:216:LYS:HE2	2.21	0.40
4:KG:255:PHE:O	4:KG:259:LEU:HB2	2.21	0.40
3:KH:11:GLN:O	3:KH:14:ASN:HB2	2.22	0.40
3:KH:309:ARG:NH1	3:KH:342:VAL:HA	2.36	0.40
4:KI:189:LEU:HA	4:KI:192:HIS:ND1	2.35	0.40
4:KK:89:PRO:HB2	4:KK:90:GLU:OE1	2.21	0.40
4:KK:187:SER:O	4:KK:191:THR:HG23	2.21	0.40
4:KK:247:ALA:HB3	4:KK:355:ILE:HB	2.03	0.40
4:KK:311:LYS:NZ	4:KK:343:PHE:O	2.55	0.40
3:KL:11:GLN:HG3	39:KL:501:GTP:O5'	2.21	0.40
20:L:62:GLY:O	20:L:216:ALA:N	2.32	0.40
22:L1:97:MET:HE3	3:LB:389:PHE:CD2	2.54	0.40
22:L3:77:LYS:CG	22:L3:78:PHE:H	2.32	0.40
22:L3:169:GLN:HA	22:L3:172:TYR:HB2	2.02	0.40
4:LA:70:LEU:HG	4:LA:149:PHE:CZ	2.56	0.40
4:LA:427:ALA:HA	4:LA:430:LYS:HG2	2.03	0.40
3:LB:28:HIS:ND1	3:LB:43:GLN:HB2	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LB:40:SER:HB2	3:LB:43:GLN:HG2	2.02	0.40
3:LB:173:PRO:HD2	3:LB:205:GLU:CD	2.46	0.40
4:LC:68:VAL:HG12	4:LC:93:ILE:HB	2.03	0.40
4:LC:333:ALA:HA	4:LC:336:LYS:HD2	2.03	0.40
4:LE:42:ILE:HG12	4:LE:55:GLU:OE2	2.22	0.40
4:LE:141:PHE:HB2	4:LE:173:PRO:HD3	2.03	0.40
4:LE:246:GLY:HA3	4:LE:355:ILE:O	2.22	0.40
4:LE:332:ILE:HG13	4:LE:336:LYS:NZ	2.37	0.40
3:LF:113:VAL:HA	3:LF:116:VAL:HG22	2.03	0.40
4:LG:166:LYS:N	4:LG:199:ASP:OD2	2.55	0.40
4:LG:263:PRO:O	4:LG:264:ARG:HB2	2.22	0.40
3:LH:337:ASN:HB2	3:LH:340:TYR:CD2	2.56	0.40
4:LI:10:GLY:O	4:LI:13:GLY:N	2.54	0.40
4:LI:359:PRO:HA	4:LI:360:PRO:HD3	2.00	0.40
4:LK:405:VAL:O	4:LK:409:VAL:HG22	2.22	0.40
24:M3:40:ILE:O	24:M3:42:LEU:HG	2.21	0.40
4:MC:9:VAL:HG23	4:MC:149:PHE:HD2	1.87	0.40
3:MD:31:ASP:OD1	3:MD:31:ASP:N	2.54	0.40
3:MD:77:ARG:HA	3:MD:77:ARG:HD2	1.89	0.40
3:MD:148:GLY:O	3:MD:152:ILE:HG12	2.21	0.40
4:ME:6:SER:OG	4:ME:138:PHE:HE2	2.04	0.40
4:ME:166:LYS:O	4:ME:199:ASP:HB2	2.21	0.40
4:ME:332:ILE:O	4:ME:336:LYS:HG3	2.22	0.40
4:ME:425:LEU:O	4:ME:428:LEU:N	2.54	0.40
3:MF:48:ASN:HA	3:MF:51:TYR:O	2.20	0.40
3:MF:174:LYS:HG2	3:MF:205:GLU:OE2	2.21	0.40
4:MG:70:LEU:HA	4:MG:95:GLY:HA3	2.03	0.40
3:MH:31:ASP:OD2	3:MH:33:THR:OG1	2.39	0.40
4:MI:172:TYR:CE2	4:MI:387:ALA:HB1	2.57	0.40
3:MJ:87:PRO:HA	3:MJ:90:PHE:CD2	2.55	0.40
4:MK:269:LEU:O	4:MK:378:LEU:HA	2.22	0.40
4:MK:401:LYS:HG2	4:MK:401:LYS:H	1.74	0.40
4:MM:47:ASP:HB3	4:MM:49:PHE:CE2	2.57	0.40
4:MM:133:GLN:HB3	4:MM:252:LEU:HD21	2.02	0.40
4:MM:160:ASP:OD1	4:MM:161:TYR:N	2.54	0.40
4:MM:273:ALA:O	4:MM:275:VAL:N	2.50	0.40
26:N2:153:THR:HG21	3:VD:44:LEU:HD21	2.04	0.40
3:NB:394:PHE:HA	3:NB:397:TRP:HZ3	1.86	0.40
4:NC:368:LEU:HD23	4:NC:368:LEU:H	1.86	0.40
3:ND:322:SER:OG	3:ND:323:MET:SD	2.79	0.40
4:NE:413:MET:HE1	4:NE:418:PHE:CE2	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:NG:117:LEU:O	4:NG:121:ARG:HG2	2.21	0.40
3:NH:423:GLN:O	3:NH:427:ASP:N	2.52	0.40
4:NI:186:ASN:HA	4:NI:189:LEU:HB2	2.04	0.40
4:NI:216:ASN:ND2	4:NI:275:VAL:O	2.54	0.40
4:NI:319:TYR:HB2	4:NI:355:ILE:HD13	2.03	0.40
39:NI:501:GTP:N3	39:NI:501:GTP:O4'	2.54	0.40
4:NK:12:ALA:HB1	39:NK:501:GTP:N2	2.37	0.40
4:NK:308:ARG:NE	4:NK:340:THR:O	2.54	0.40
4:OA:186:ASN:OD1	4:OA:187:SER:N	2.55	0.40
4:OA:427:ALA:HA	4:OA:430:LYS:NZ	2.36	0.40
3:OB:64:VAL:HA	3:OB:89:ASN:HB3	2.02	0.40
3:OB:99:ASN:OD1	3:OB:142:GLY:HA3	2.20	0.40
4:OC:192:HIS:CE1	4:OC:193:THR:HG23	2.56	0.40
4:OC:329:ASN:HA	4:OC:332:ILE:HG12	2.04	0.40
3:OD:12:CYS:O	3:OD:16:ILE:HG12	2.21	0.40
4:OE:175:PRO:O	4:OE:390:ARG:HD3	2.21	0.40
4:OE:252:LEU:HD12	4:OE:253:THR:N	2.35	0.40
3:OF:101:TRP:HB2	3:OF:184:ASN:HD22	1.86	0.40
3:OF:117:LEU:HB3	3:OF:121:ARG:NH2	2.36	0.40
4:OG:102:ASN:HD22	4:OG:105:ARG:HG3	1.86	0.40
4:OG:118:VAL:HA	4:OG:121:ARG:HG2	2.02	0.40
4:OG:132:LEU:O	4:OG:132:LEU:HD12	2.22	0.40
4:OI:263:PRO:HD3	3:OJ:396:HIS:CD2	2.56	0.40
39:OI:501:GTP:N3	39:OI:501:GTP:O4'	2.54	0.40
3:OL:188:SER:O	3:OL:192:LEU:HG	2.21	0.40
3:OL:381:ILE:HG23	3:OL:415:MET:HE2	2.03	0.40
27:P:51:GLN:HA	27:P:54:LYS:NZ	2.36	0.40
27:P:220:GLN:O	27:P:224:LEU:HG	2.21	0.40
27:P:300:GLU:HA	27:P:303:ARG:CZ	2.51	0.40
29:P1:287:VAL:HG11	29:P1:324:GLU:OE1	2.21	0.40
29:P2:16:LEU:HD11	29:P2:612:LEU:HB3	2.04	0.40
4:PA:2:ARG:HA	4:PA:133:GLN:HE22	1.84	0.40
3:PD:211:CYS:O	3:PD:216:LYS:N	2.51	0.40
4:PE:34:GLY:HA3	4:PE:60:LYS:HD2	2.04	0.40
4:PG:119:LEU:HB3	4:PG:123:ARG:NH2	2.36	0.40
4:PG:321:GLY:HA3	4:PG:372:GLN:O	2.21	0.40
4:PI:21:TRP:CE3	4:PI:24:TYR:HD2	2.40	0.40
4:PI:34:GLY:HA3	4:PI:60:LYS:HD2	2.03	0.40
4:PI:165:SER:C	4:PI:166:LYS:HD2	2.46	0.40
4:PI:201:ALA:H	4:PI:266:HIS:HD2	1.70	0.40
4:PK:35:GLN:HG2	4:PK:59:GLY:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:PK:88:HIS:CE1	4:QK:280:LYS:HZ3	2.39	0.40
4:PK:99:ALA:HB3	4:PK:144:GLY:O	2.21	0.40
4:PK:104:ALA:O	4:PK:108:TYR:N	2.51	0.40
4:PK:317:MET:O	4:PK:354:GLY:N	2.48	0.40
4:PK:402:ARG:HB3	4:PK:405:VAL:HG21	2.03	0.40
4:PM:118:VAL:HA	4:PM:121:ARG:HG2	2.02	0.40
4:PM:332:ILE:O	4:PM:336:LYS:HG3	2.21	0.40
4:PM:370:LYS:H	4:PM:370:LYS:HG2	1.65	0.40
30:Q1:1424:ASP:CG	30:Q1:1509:ASP:HB3	2.47	0.40
30:Q2:1416:ARG:HB3	30:Q2:1451:TRP:HE1	1.87	0.40
30:Q3:1344:LEU:HD22	30:Q3:1444:GLN:NE2	2.36	0.40
30:Q3:1350:LYS:HA	30:Q3:1350:LYS:HD2	1.80	0.40
3:QB:119:VAL:O	3:QB:122:LYS:HG2	2.21	0.40
3:QB:127:CYS:SG	3:QB:130:LEU:HD21	2.62	0.40
3:QD:12:CYS:O	3:QD:16:ILE:HG12	2.20	0.40
3:QD:101:TRP:HB2	3:QD:184:ASN:ND2	2.31	0.40
3:QD:415:MET:O	3:QD:419:VAL:HG23	2.20	0.40
4:QE:296:PHE:CE2	4:QE:335:ILE:HG21	2.56	0.40
3:QF:109:GLY:O	3:QF:113:VAL:HG13	2.21	0.40
3:QF:250:LEU:O	3:QF:254:ALA:N	2.40	0.40
4:QG:88:HIS:CE1	4:RG:280:LYS:HZ3	2.39	0.40
4:QG:175:PRO:HA	4:QG:390:ARG:CZ	2.51	0.40
4:QG:261:PRO:HA	3:QH:394:PHE:CE1	2.57	0.40
4:QG:427:ALA:HA	4:QG:430:LYS:HG2	2.03	0.40
4:QI:270:ALA:O	4:QI:271:THR:OG1	2.38	0.40
4:QI:317:MET:N	4:QI:352:LYS:O	2.48	0.40
4:QI:363:VAL:HG12	4:QI:368:LEU:HD22	2.04	0.40
4:QK:103:TYR:HB2	4:QK:186:ASN:HB2	2.04	0.40
3:QL:66:VAL:HA	3:QL:91:VAL:O	2.22	0.40
3:QL:214:THR:HG21	3:QL:273:LEU:HB3	2.03	0.40
4:QM:138:PHE:HZ	4:QM:235:VAL:HG21	1.85	0.40
3:RB:56:GLY:HA2	37:YA:58:ASN:O	2.20	0.40
3:RD:19:LYS:NZ	3:RD:223:GLY:O	2.47	0.40
4:RI:71:GLU:N	4:RI:71:GLU:OE1	2.54	0.40
4:RK:213:CYS:O	4:RK:218:ASP:N	2.54	0.40
4:RK:420:GLU:HA	4:RK:423:GLU:OE2	2.21	0.40
3:RL:6:HIS:HB2	3:RL:134:GLN:NE2	2.37	0.40
3:RL:246:LEU:HD22	3:RL:354:CYS:HA	2.04	0.40
3:RL:261:PRO:HD3	4:RM:406:HIS:CG	2.56	0.40
4:RM:216:ASN:OD1	4:RM:217:LEU:N	2.55	0.40
4:SC:1:MET:O	4:SC:131:GLY:HA3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:SD:103:LYS:HD2	3:SD:104:GLY:N	2.36	0.40
3:SD:406:MET:HA	3:SD:406:MET:HE2	2.04	0.40
3:SD:407:GLU:HA	3:SD:410:GLU:OE2	2.22	0.40
4:SE:185:TYR:O	4:SE:189:LEU:HG	2.21	0.40
4:SE:263:PRO:HB2	4:SE:264:ARG:NH1	2.37	0.40
3:SF:30:ILE:HG13	3:SF:36:TYR:HD1	1.87	0.40
3:SF:145:SER:HB2	3:SF:188:SER:HB3	2.03	0.40
3:SF:306:ARG:O	3:SF:306:ARG:NE	2.45	0.40
3:SH:137:HIS:O	3:SH:168:SER:HA	2.22	0.40
4:SI:251:ASP:HB3	4:SI:254:GLU:OE1	2.21	0.40
3:SJ:77:ARG:HA	3:SJ:77:ARG:HD2	1.91	0.40
3:SJ:255:VAL:HA	4:SK:407:TRP:CE2	2.56	0.40
4:SK:202:PHE:HD1	4:SK:268:PRO:HD2	1.87	0.40
3:SL:183:TYR:CZ	3:SL:388:MET:HG3	2.57	0.40
4:TC:83:TYR:HB3	4:TC:86:LEU:HD12	2.02	0.40
4:TC:132:LEU:HD13	4:TC:164:LYS:HE3	2.03	0.40
4:TC:216:ASN:OD1	4:TC:217:LEU:N	2.54	0.40
4:TC:260:VAL:HG23	4:TC:265:ILE:O	2.21	0.40
3:TD:36:TYR:CZ	3:TD:38:GLY:HA2	2.56	0.40
3:TD:40:SER:O	3:TD:43:GLN:HG2	2.22	0.40
3:TD:117:LEU:HA	3:TD:120:VAL:HG12	2.02	0.40
4:TE:370:LYS:HB3	36:Y:164:VAL:HG11	2.03	0.40
4:TG:6:SER:O	4:TG:65:ALA:HA	2.21	0.40
3:TH:324:LYS:HE3	3:TH:324:LYS:HB3	1.93	0.40
4:TI:87:PHE:HB3	4:TI:92:LEU:CD2	2.52	0.40
3:TJ:267:MET:HE1	3:TJ:371:SER:H	1.87	0.40
3:TJ:379:LYS:O	3:TJ:382:SER:OG	2.18	0.40
3:TJ:420:SER:O	3:TJ:424:GLN:N	2.46	0.40
3:TL:143:THR:O	3:TL:147:MET:HG2	2.22	0.40
3:TL:275:SER:HA	3:TL:276:ARG:HH21	1.87	0.40
3:TL:329:GLN:O	3:TL:333:VAL:HG22	2.21	0.40
3:TN:309:ARG:N	3:TN:372:THR:OG1	2.37	0.40
33:U:216:GLN:HA	33:U:219:LYS:HD3	2.04	0.40
4:UA:327:ASP:OD1	4:UA:328:VAL:N	2.53	0.40
4:UC:102:ASN:HD22	4:UC:105:ARG:HG3	1.86	0.40
4:UC:201:ALA:H	4:UC:266:HIS:HD2	1.70	0.40
3:UD:4:ILE:HG12	3:UD:131:GLN:OE1	2.21	0.40
3:UD:32:PRO:HA	3:UD:81:PHE:CE1	2.56	0.40
4:UE:30:ILE:HG13	4:UE:53:PHE:HE2	1.86	0.40
4:UE:154:MET:HA	4:UE:157:LEU:HG	2.03	0.40
4:UE:319:TYR:HA	4:UE:374:ALA:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UF:119:VAL:O	3:UF:122:LYS:HG3	2.21	0.40
3:UF:318:ARG:HB3	3:UF:364:SER:OG	2.21	0.40
3:UH:143:THR:HG22	3:UH:147:MET:HE3	2.04	0.40
4:UI:313:MET:HE3	4:UI:380:ASN:HB3	2.03	0.40
4:UK:397:LEU:O	4:UK:401:LYS:HG2	2.20	0.40
3:UL:217:LEU:O	3:UL:219:THR:N	2.54	0.40
4:VA:244:PHE:HB2	4:VA:356:ASN:HD21	1.86	0.40
3:VB:247:ASN:ND2	3:VB:252:LYS:HE2	2.36	0.40
3:VB:324:LYS:HE3	3:VB:324:LYS:HB3	1.89	0.40
3:VB:350:LYS:HE3	4:VC:180:ALA:HA	2.03	0.40
3:VD:151:LEU:O	3:VD:155:ILE:HG12	2.21	0.40
3:VD:391:ARG:C	3:VD:392:LYS:HG3	2.47	0.40
4:VG:255:PHE:O	4:VG:259:LEU:HB2	2.21	0.40
4:VG:345:ASP:N	4:VG:345:ASP:OD1	2.54	0.40
3:VH:19:LYS:HD2	3:VH:19:LYS:HA	1.95	0.40
3:VH:239:CYS:SG	3:VH:316:VAL:HG11	2.61	0.40
4:VI:145:THR:HG1	39:VI:501:GTP:PB	2.43	0.40
4:VI:168:GLU:N	4:VI:168:GLU:OE1	2.54	0.40
4:VI:265:ILE:HD12	4:VI:432:TYR:CE1	2.57	0.40
3:VJ:137:HIS:O	3:VJ:168:SER:HA	2.21	0.40
3:VJ:330:MET:HE3	3:VJ:330:MET:O	2.21	0.40
3:VL:77:ARG:HA	3:VL:77:ARG:HD2	1.90	0.40
3:VL:284:LEU:HD12	3:VL:288:GLU:OE2	2.20	0.40
3:VL:362:LYS:CD	3:VL:363:MET:HG3	2.50	0.40
33:W:199:LEU:HD13	33:W:202:LYS:HZ3	1.86	0.40
4:WA:139:HIS:O	4:WA:170:ALA:HA	2.22	0.40
4:WA:433:GLU:O	4:WA:437:VAL:HG23	2.21	0.40
3:WB:189:VAL:HA	3:WB:192:LEU:HB2	2.04	0.40
4:WC:216:ASN:ND2	4:WC:275:VAL:O	2.55	0.40
4:WC:311:LYS:N	4:WC:382:THR:OG1	2.54	0.40
3:WD:94:GLN:HB2	35:XI:72:ASP:HB3	2.01	0.40
3:WD:267:MET:HB2	3:WD:301:ALA:CB	2.52	0.40
4:WE:187:SER:O	4:WE:191:THR:HG23	2.22	0.40
4:WE:261:PRO:HA	3:WF:394:PHE:CE1	2.56	0.40
3:WF:216:LYS:HB3	3:WF:276:ARG:NH2	2.36	0.40
3:WF:273:LEU:H	3:WF:292:GLN:NE2	2.19	0.40
3:WF:398:TYR:HB3	3:WF:403:MET:HB2	2.03	0.40
4:WG:178:SER:OG	4:WG:180:ALA:O	2.36	0.40
4:WG:398:MET:O	4:WG:402:ARG:N	2.55	0.40
3:WH:190:HIS:ND1	3:WH:411:ALA:HA	2.36	0.40
4:WI:260:VAL:O	3:WJ:397:TRP:HH2	2.05	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:WJ:81:PHE:O	3:WJ:84:ILE:HG22	2.20	0.40
4:WK:261:PRO:HG3	4:WK:313:MET:SD	2.61	0.40
4:WK:389:ALA:HA	4:WK:392:ASP:OD2	2.21	0.40
3:WL:101:TRP:CE3	3:WL:187:LEU:HD13	2.56	0.40
33:X:518:LYS:O	33:X:521:LYS:HG3	2.21	0.40
34:XC:133:GLN:OE1	34:XC:133:GLN:N	2.55	0.40
34:XD:69:LEU:HG	34:XD:153:ARG:HA	2.03	0.40
34:XD:84:LYS:HE2	35:XJ:241:ASN:H	1.85	0.40
34:XE:15:TYR:OH	34:XE:180:GLU:HB2	2.22	0.40
34:XF:178:PRO:O	34:XF:182:LYS:N	2.52	0.40
34:XG:1:MET:CE	34:XG:62:PRO:HB3	2.51	0.40
35:XH:156:LEU:O	35:XH:160:VAL:HG23	2.21	0.40
35:XI:205:ILE:H	35:XI:205:ILE:HD12	1.87	0.40
35:XJ:105:PHE:CD1	35:XJ:106:PRO:HA	2.57	0.40
35:XL:171:LEU:HB2	35:XL:172:PRO:HD3	2.03	0.40
37:YB:64:ARG:O	37:YB:67:ILE:HG12	2.21	0.40
37:YC:140:LEU:HD12	37:YC:141:ILE:HG13	2.04	0.40
37:YD:121:VAL:HG12	37:YD:138:VAL:HB	2.03	0.40
37:YE:90:THR:O	37:YE:94:ASN:N	2.31	0.40
37:YH:78:LYS:O	37:YH:81:GLN:HG3	2.21	0.40
37:YJ:23:PHE:HA	37:YJ:26:ILE:HG12	2.03	0.40
37:YK:11:ILE:HD13	37:YK:75:GLU:OE1	2.21	0.40
37:YQ:141:ILE:HB	37:YQ:142:PRO:HD3	2.03	0.40
37:YT:4:VAL:HG11	37:YT:83:PHE:CE2	2.56	0.40
37:YU:86:LEU:HB3	37:YU:87:HIS:H	1.57	0.40
37:YV:141:ILE:O	37:YV:145:LEU:HG	2.21	0.40
36:Z:362:GLU:HA	36:Z:365:GLN:CD	2.46	0.40
2:A1:71:ARG:O	2:A1:74:LYS:HG3	2.22	0.40
2:A1:119:ARG:HH22	2:A1:132:VAL:HB	1.86	0.40
2:A1:171:LEU:HD11	2:A1:228:ALA:HB2	2.02	0.40
2:A1:265:ILE:H	2:A1:265:ILE:HG13	1.75	0.40
2:A2:149:LEU:O	2:A2:153:THR:HG23	2.22	0.40
2:A3:223:ALA:O	2:A3:227:LYS:HG3	2.21	0.40
2:A3:294:LYS:HE3	2:A3:294:LYS:HB2	1.85	0.40
2:A4:14:GLU:OE1	2:A4:14:GLU:N	2.38	0.40
3:AB:309:ARG:NH1	3:AB:342:VAL:HA	2.37	0.40
4:AC:22:GLU:HG2	4:AC:83:TYR:CE2	2.57	0.40
4:AC:104:ALA:HB1	4:AC:108:TYR:CD2	2.56	0.40
4:AC:368:LEU:HD23	4:AC:368:LEU:H	1.87	0.40
4:AC:425:LEU:O	4:AC:428:LEU:N	2.55	0.40
3:AD:217:LEU:HD11	3:AD:220:PRO:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:322:SER:HG	3:AD:323:MET:H	1.70	0.40
4:AE:53:PHE:HB3	4:AE:61:HIS:HB3	2.02	0.40
3:AF:82:GLY:HA2	3:AF:85:PHE:HD2	1.86	0.40
3:AF:304:ASP:HB3	3:AF:307:HIS:CE1	2.56	0.40
3:AF:378:PHE:CE1	3:AF:419:VAL:HA	2.57	0.40
3:AF:423:GLN:O	3:AF:427:ASP:N	2.47	0.40
4:AG:5:ILE:O	4:AG:135:PHE:HA	2.22	0.40
4:AG:145:THR:HG23	39:AG:501:GTP:O3B	2.22	0.40
4:AG:252:LEU:HD12	4:AG:253:THR:N	2.36	0.40
4:AI:226:ASN:O	4:AI:230:LEU:HG	2.22	0.40
3:AJ:31:ASP:OD1	3:AJ:35:THR:N	2.54	0.40
4:AK:280:LYS:HZ1	4:MK:88:HIS:CE1	2.40	0.40
4:AK:408:TYR:CD2	4:AK:418:PHE:HZ	2.40	0.40
3:AL:33:THR:O	3:AL:58:LYS:NZ	2.55	0.40
3:AL:148:GLY:O	3:AL:152:ILE:HG12	2.21	0.40
3:AL:394:PHE:HA	3:AL:397:TRP:HZ3	1.86	0.40
3:AL:423:GLN:O	3:AL:427:ASP:N	2.50	0.40
1:B:353:ASP:O	1:B:357:GLN:HG2	2.22	0.40
1:B:468:PHE:CZ	1:B:471:GLU:HA	2.55	0.40
5:B3:121:GLU:HG3	8:D3:409:ARG:NH2	2.37	0.40
5:B3:331:ARG:HA	5:B3:335:GLN:CD	2.45	0.40
5:B4:169:ARG:O	5:B4:173:ASN:ND2	2.54	0.40
5:B6:353:LYS:O	5:B6:356:LEU:HB2	2.21	0.40
5:B7:167:GLU:O	5:B7:170:GLN:HG3	2.20	0.40
5:B7:171:GLN:O	5:B7:174:SER:OG	2.28	0.40
3:BB:183:TYR:CZ	3:BB:388:MET:HG3	2.57	0.40
3:BB:197:ASP:HA	3:BB:264:HIS:ND1	2.37	0.40
3:BB:375:GLN:HA	3:BB:378:PHE:CE1	2.56	0.40
4:BC:160:ASP:OD1	4:BC:161:TYR:N	2.54	0.40
3:BD:4:ILE:HB	3:BD:50:TYR:HE1	1.87	0.40
3:BD:217:LEU:O	3:BD:219:THR:N	2.53	0.40
3:BD:316:VAL:N	3:BD:366:THR:O	2.48	0.40
3:BF:217:LEU:O	3:BF:219:THR:N	2.55	0.40
3:BF:223:GLY:O	3:BF:227:HIS:N	2.51	0.40
3:BF:394:PHE:HA	3:BF:397:TRP:HZ3	1.86	0.40
4:BI:71:GLU:N	4:BI:71:GLU:OE1	2.55	0.40
4:BI:212:ILE:HG13	4:BI:215:ARG:HH21	1.86	0.40
4:BK:210:TYR:OH	4:BK:221:ARG:NH2	2.55	0.40
4:BK:257:THR:HA	3:BL:397:TRP:CZ2	2.57	0.40
4:BM:102:ASN:ND2	4:BM:105:ARG:HB2	2.36	0.40
4:BM:103:TYR:CD1	4:BM:148:GLY:HA2	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BM:213:CYS:HA	4:BM:217:LEU:HB2	2.04	0.40
4:BM:296:PHE:CE1	4:BM:377:MET:HE2	2.56	0.40
7:C2:384:LYS:O	7:C2:388:GLU:OE1	2.40	0.40
7:C3:295:SER:CB	7:C4:412:CYS:HA	2.52	0.40
7:C4:183:ARG:HH21	7:C4:186:ILE:CD1	2.35	0.40
7:C7:258:LEU:HA	7:C7:261:LYS:HE3	2.04	0.40
3:CB:215:LEU:HD11	3:CB:228:LEU:HD11	2.02	0.40
3:CB:291:GLN:OE1	3:CB:291:GLN:N	2.51	0.40
4:CC:118:VAL:O	4:CC:122:ILE:HG13	2.22	0.40
4:CC:331:ALA:O	4:CC:335:ILE:HG12	2.20	0.40
4:CC:402:ARG:HB2	4:CC:405:VAL:HG11	2.02	0.40
4:CC:421:ALA:HA	4:CC:424:ASP:HB2	2.03	0.40
3:CD:55:THR:HA	15:H2:230:TRP:CZ2	2.56	0.40
3:CD:81:PHE:HD2	3:CD:84:ILE:HD13	1.87	0.40
3:CD:319:GLY:N	3:CD:321:MET:HE1	2.37	0.40
3:CD:423:GLN:O	3:CD:427:ASP:N	2.50	0.40
4:CE:145:THR:HG23	39:CE:501:GTP:O3B	2.21	0.40
3:CF:19:LYS:NZ	3:CF:227:HIS:HB2	2.36	0.40
3:CF:302:ALA:HB1	3:CF:377:LEU:HD11	2.03	0.40
4:CG:176:GLN:NE2	4:CG:177:VAL:HG23	2.37	0.40
4:CG:324:VAL:HB	4:CG:326:LYS:HE2	2.02	0.40
3:CH:263:LEU:HD12	3:CH:370:ASN:HD21	1.85	0.40
3:CH:328:GLU:O	3:CH:332:ASN:N	2.47	0.40
4:CI:90:GLU:HG2	4:CI:121:ARG:NH2	2.37	0.40
4:CI:176:GLN:NE2	4:CI:177:VAL:HG23	2.36	0.40
4:CK:19:ALA:HA	4:CK:22:GLU:OE1	2.20	0.40
4:CK:260:VAL:HG13	3:CL:397:TRP:HH2	1.86	0.40
4:CK:331:ALA:O	4:CK:335:ILE:HG12	2.21	0.40
3:CL:81:PHE:HD1	3:CL:84:ILE:HG13	1.86	0.40
4:CM:84:ARG:CD	15:H6:215:ARG:HH21	2.34	0.40
7:Cb:405:ARG:HH22	10:E2:5:ARG:NH2	2.20	0.40
7:Cc:317:ALA:HB2	20:K:60:GLU:OE2	2.22	0.40
7:Cc:423:GLU:CD	7:Cd:138:THR:HG21	2.47	0.40
7:Cd:139:GLN:O	7:Cd:143:THR:HG23	2.21	0.40
8:D2:118:GLN:OE1	8:D2:215:TRP:CE2	2.74	0.40
8:D2:177:LEU:O	8:D2:180:THR:OG1	2.35	0.40
8:D2:249:GLU:O	8:D3:370:ARG:NH2	2.52	0.40
8:D2:262:HIS:O	8:D2:266:LEU:HG	2.22	0.40
8:D5:367:GLU:OE1	8:D5:367:GLU:N	2.52	0.40
8:D8:243:HIS:CE1	8:D8:247:PHE:HE2	2.39	0.40
8:D8:313:ASP:CA	11:F3:271:ARG:HH12	2.34	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DB:113:VAL:HA	3:DB:116:VAL:HG22	2.04	0.40
3:DB:134:GLN:HA	3:DB:165:ASN:HB3	2.03	0.40
4:DC:327:ASP:OD1	4:DC:328:VAL:N	2.54	0.40
3:DD:84:ILE:C	3:DD:86:ARG:HH22	2.29	0.40
3:DD:115:SER:O	3:DD:119:VAL:HG23	2.21	0.40
3:DD:280:GLN:OE1	13:G1:256:PHE:HB2	2.21	0.40
4:DE:70:LEU:HB3	4:DE:97:GLU:O	2.22	0.40
4:DE:145:THR:HG23	39:DE:501:GTP:O3B	2.22	0.40
4:DE:329:ASN:OD1	4:DE:330:ALA:N	2.55	0.40
3:DF:24:ILE:O	3:DF:27:GLU:HG2	2.20	0.40
3:DF:117:LEU:HB3	3:DF:121:ARG:NH2	2.37	0.40
3:DF:224:ASP:O	3:DF:227:HIS:HB3	2.22	0.40
4:DG:9:VAL:HG23	4:DG:149:PHE:HD2	1.85	0.40
4:DG:11:GLN:NE2	39:DG:501:GTP:O3A	2.55	0.40
4:DG:174:ALA:HB3	4:DG:177:VAL:O	2.21	0.40
4:DI:178:SER:OG	4:DI:180:ALA:O	2.40	0.40
4:DI:188:ILE:HG22	4:DI:421:ALA:HB1	2.03	0.40
4:DI:352:LYS:NZ	3:DJ:178:THR:HA	2.37	0.40
4:DI:386:GLU:HA	4:DI:389:ALA:HB3	2.02	0.40
3:DJ:90:PHE:HD2	14:G6:409:LEU:HD13	1.86	0.40
3:DJ:374:ILE:HG22	3:DJ:378:PHE:CD2	2.57	0.40
3:DL:276:ARG:HG2	13:G3:284:GLY:C	2.47	0.40
9:E:642:PHE:HA	9:E:645:PHE:HB2	2.04	0.40
9:E:785:GLU:H	9:E:785:GLU:CD	2.29	0.40
10:E1:20:LEU:HB2	10:E1:22:PHE:CE1	2.56	0.40
10:E3:81:ARG:NH2	10:E3:85:THR:OG1	2.53	0.40
4:EA:243:ARG:HG3	4:EA:244:PHE:CD2	2.57	0.40
4:EA:265:ILE:HG13	4:EA:267:PHE:HD2	1.86	0.40
4:EA:389:ALA:HA	4:EA:392:ASP:OD2	2.22	0.40
3:EB:259:PRO:HA	4:EC:404:PHE:CE1	2.56	0.40
3:EB:267:MET:O	3:EB:368:ILE:HD12	2.21	0.40
3:ED:8:GLN:OE1	3:ED:63:ALA:HB1	2.22	0.40
3:ED:357:PRO:O	3:ED:359:ARG:NH1	2.50	0.40
4:EG:252:LEU:HD12	4:EG:253:THR:N	2.37	0.40
3:EH:188:SER:O	3:EH:192:LEU:HG	2.22	0.40
3:EH:324:LYS:HD3	4:EI:210:TYR:CE1	2.57	0.40
4:EK:103:TYR:HB2	4:EK:186:ASN:HB2	2.03	0.40
4:EK:224:TYR:HA	4:EK:227:LEU:HB2	2.03	0.40
4:EK:319:TYR:HB2	4:EK:355:ILE:HD13	2.03	0.40
3:EL:127:CYS:SG	3:EL:130:LEU:HD21	2.61	0.40
3:EL:152:ILE:O	3:EL:156:ARG:HG2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:F1:390:LYS:HZ3	11:F2:279:PHE:HA	1.85	0.40
11:F1:450:ARG:HH12	11:F2:102:GLN:HG3	1.85	0.40
11:F2:153:LYS:NZ	11:F2:258:SER:HB3	2.35	0.40
11:F2:206:LEU:HB3	11:F3:89:ARG:CZ	2.52	0.40
11:F3:114:SER:O	11:F3:117:THR:OG1	2.37	0.40
11:F3:121:LEU:O	11:F3:124:MET:HG3	2.21	0.40
11:F7:228:GLN:HA	11:F7:231:LYS:HE2	2.03	0.40
3:FB:11:GLN:NE2	39:FB:501:GTP:H3'	2.37	0.40
3:FB:31:ASP:HB3	3:FB:37:HIS:NE2	2.36	0.40
3:FB:311:LEU:HD23	3:FB:342:VAL:HG11	2.03	0.40
3:FB:350:LYS:NZ	4:FC:181:VAL:HG13	2.36	0.40
4:FC:125:LEU:HD13	4:FC:128:LEU:HD21	2.03	0.40
3:FD:39:ASP:OD1	3:FD:39:ASP:N	2.54	0.40
3:FD:117:LEU:O	3:FD:121:ARG:HG2	2.21	0.40
3:FD:267:MET:O	3:FD:368:ILE:HD12	2.21	0.40
3:FF:106:TYR:HB2	3:FF:401:GLU:OE2	2.21	0.40
3:FF:172:SER:HB2	3:FF:175:VAL:O	2.21	0.40
3:FF:267:MET:O	3:FF:368:ILE:HD12	2.22	0.40
3:FF:343:GLU:OE1	3:FF:343:GLU:N	2.50	0.40
3:FH:19:LYS:HA	3:FH:22:GLU:HG3	2.03	0.40
3:FH:267:MET:HA	3:FH:268:PRO:HD3	1.96	0.40
3:FH:398:TYR:HB3	3:FH:403:MET:HB2	2.03	0.40
4:FI:87:PHE:HB3	4:FI:92:LEU:HD21	2.03	0.40
3:FJ:72:THR:O	3:FJ:76:VAL:HG23	2.21	0.40
4:FK:185:TYR:HA	4:FK:395:PHE:CE1	2.56	0.40
4:FK:286:LEU:H	4:FK:286:LEU:HD23	1.86	0.40
3:FL:101:TRP:HZ2	3:FL:191:GLN:HE22	1.68	0.40
11:Fb:207:VAL:C	11:Fc:89:ARG:HH12	2.30	0.40
11:Fb:252:ARG:HG3	11:Fb:253:ASP:N	2.36	0.40
11:Fc:176:ARG:HH12	11:Fc:180:ALA:N	2.19	0.40
11:Fe:222:LEU:HD12	11:Fe:223:LYS:N	2.36	0.40
11:Ff:308:GLN:HA	11:Ff:311:ARG:HD3	2.03	0.40
11:Fg:355:ASN:O	11:Fg:359:THR:HG23	2.21	0.40
11:Fj:385:LYS:CE	11:Fj:430:LEU:HD13	2.51	0.40
11:Fj:442:GLN:HA	11:Fj:445:VAL:HG22	2.03	0.40
11:Fl:194:CYS:O	11:Fl:468:LYS:NZ	2.55	0.40
11:Fl:198:ARG:HD2	11:Fl:198:ARG:HA	1.92	0.40
11:Fl:450:ARG:HA	11:Fl:453:HIS:HD1	1.86	0.40
11:Fm:360:GLN:HA	11:Fm:363:LYS:HG2	2.04	0.40
12:G:157:PHE:CE2	12:G:161:CYS:HB3	2.56	0.40
12:G:451:LEU:HA	12:G:454:GLN:HE21	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:G1:161:ASP:N	13:G1:161:ASP:OD1	2.55	0.40
13:G3:212:TYR:O	13:G3:216:ARG:HG3	2.22	0.40
13:G3:264:ILE:HG23	13:G3:274:GLU:O	2.21	0.40
13:G3:348:ASP:OD2	13:G3:350:PHE:HB3	2.21	0.40
14:G4:677:LEU:HD12	14:G4:678:LEU:N	2.36	0.40
14:G5:18:GLU:N	14:G5:18:GLU:OE1	2.54	0.40
14:G5:225:TYR:HA	14:G5:228:LYS:HD2	2.03	0.40
14:G5:237:ASP:HA	14:G5:246:ARG:NE	2.37	0.40
14:G5:640:TYR:HA	14:G5:643:VAL:HG12	2.03	0.40
14:G5:721:TRP:HE1	14:G5:725:PRO:HD2	1.86	0.40
14:G6:487:LYS:HD2	14:G6:499:SER:OG	2.21	0.40
4:GA:121:ARG:O	4:GA:125:LEU:HD23	2.21	0.40
4:GA:186:ASN:OD1	4:GA:187:SER:N	2.55	0.40
4:GA:244:PHE:CD2	4:GA:358:GLN:HG2	2.57	0.40
4:GA:318:LEU:O	4:GA:318:LEU:HD12	2.21	0.40
3:GB:34:GLY:HA3	3:GB:58:LYS:NZ	2.36	0.40
3:GB:206:ALA:O	3:GB:210:ILE:HG12	2.20	0.40
4:GC:88:HIS:HE1	4:GC:90:GLU:CD	2.30	0.40
4:GC:229:ARG:NH1	4:GC:366:GLY:HA2	2.37	0.40
4:GC:281:ALA:HB3	4:GC:370:LYS:NZ	2.37	0.40
4:GC:301:GLN:N	4:GC:301:GLN:OE1	2.54	0.40
4:GC:326:LYS:CE	3:GD:220:PRO:HD2	2.51	0.40
4:GC:326:LYS:NZ	3:GD:220:PRO:O	2.49	0.40
3:GF:11:GLN:O	3:GF:14:ASN:HB2	2.21	0.40
3:GF:72:THR:O	3:GF:75:SER:OG	2.27	0.40
3:GF:188:SER:O	3:GF:192:LEU:HG	2.22	0.40
3:GF:198:GLU:HG2	3:GF:266:PHE:CE2	2.57	0.40
3:GF:273:LEU:H	3:GF:292:GLN:NE2	2.19	0.40
4:GG:209:ILE:HD13	4:GG:231:ILE:HD11	2.03	0.40
4:GG:263:PRO:O	4:GG:264:ARG:HB2	2.21	0.40
3:GH:20:PHE:O	3:GH:24:ILE:HG13	2.21	0.40
3:GH:299:MET:HE2	3:GH:303:CYS:C	2.46	0.40
3:GH:379:LYS:O	3:GH:382:SER:OG	2.21	0.40
4:GI:246:GLY:HA2	4:GI:357:TYR:HD2	1.86	0.40
4:GI:297:GLU:HB3	4:GI:300:ASN:OD1	2.21	0.40
4:GI:362:VAL:HA	4:GI:368:LEU:HD11	2.03	0.40
3:GJ:1:MET:C	3:GJ:2:ARG:HD3	2.47	0.40
3:GJ:8:GLN:O	3:GJ:66:VAL:HG22	2.21	0.40
3:GJ:376:GLU:OE1	3:GJ:376:GLU:N	2.33	0.40
4:GK:160:ASP:OD1	4:GK:161:TYR:N	2.53	0.40
3:GL:21:TRP:CZ3	3:GL:51:TYR:HE1	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H1:291:SER:HB3	15:H1:315:ARG:NH1	2.36	0.40
15:H3:306:ARG:O	15:H3:310:LYS:HG2	2.22	0.40
15:H4:20:TYR:HD2	15:H4:35:TYR:OH	2.03	0.40
4:HA:254:GLU:OE1	4:HA:254:GLU:N	2.50	0.40
3:HB:139:LEU:N	3:HB:168:SER:OG	2.54	0.40
4:HC:346:TRP:HH2	4:HC:435:VAL:HA	1.87	0.40
3:HD:2:ARG:HB3	3:HD:131:GLN:CD	2.47	0.40
4:HI:145:THR:HG23	39:HI:501:GTP:O3B	2.22	0.40
4:HI:167:LEU:HD13	4:HI:200:CYS:HB2	2.03	0.40
3:HJ:130:LEU:HD21	3:HJ:133:PHE:CE1	2.56	0.40
3:HJ:384:GLN:O	3:HJ:388:MET:HG2	2.22	0.40
4:HK:2:ARG:HA	4:HK:133:GLN:HE22	1.85	0.40
4:HK:423:GLU:HA	4:HK:426:ALA:HB3	2.04	0.40
3:HL:235:GLY:O	3:HL:238:THR:OG1	2.24	0.40
4:IA:151:SER:O	4:IA:155:GLU:HG2	2.21	0.40
4:IA:402:ARG:HG2	4:IA:402:ARG:O	2.22	0.40
3:IB:70:PRO:HA	3:IB:73:MET:HE3	2.03	0.40
3:IB:346:PRO:HG2	4:IC:394:LYS:NZ	2.36	0.40
4:IC:87:PHE:O	3:JB:281:TYR:OH	2.29	0.40
4:IC:103:TYR:HB2	4:IC:186:ASN:CB	2.52	0.40
4:IC:263:PRO:O	4:IC:264:ARG:HB2	2.21	0.40
4:IC:320:ARG:HG2	4:IC:358:GLN:O	2.21	0.40
3:ID:270:PHE:H	3:ID:300:MET:HE1	1.87	0.40
4:IE:154:MET:HA	4:IE:157:LEU:HG	2.02	0.40
4:IE:188:ILE:HG13	4:IE:388:TRP:HZ3	1.87	0.40
3:IH:334:GLN:O	3:IH:338:SER:OG	2.28	0.40
3:IJ:215:LEU:HD23	3:IJ:217:LEU:HD21	2.03	0.40
3:IJ:418:LEU:HA	3:IJ:421:GLU:HB3	2.02	0.40
4:IM:47:ASP:CG	4:IM:48:SER:H	2.29	0.40
4:IM:54:SER:N	4:IM:62:VAL:O	2.55	0.40
4:IM:119:LEU:HB3	4:IM:123:ARG:NH2	2.37	0.40
4:IM:182:VAL:O	4:IM:185:TYR:HB2	2.21	0.40
4:JA:89:PRO:HD2	4:KA:280:LYS:NZ	2.33	0.40
3:JB:20:PHE:CZ	3:JB:24:ILE:HD11	2.56	0.40
3:JB:31:ASP:OD1	3:JB:31:ASP:N	2.54	0.40
3:JB:157:GLU:HG2	3:JB:158:GLU:N	2.37	0.40
3:JB:378:PHE:O	3:JB:381:ILE:HG22	2.22	0.40
4:JC:132:LEU:HD23	4:JC:132:LEU:O	2.21	0.40
4:JC:170:ALA:O	4:JC:203:MET:HA	2.21	0.40
3:JD:293:MET:HE3	3:JD:367:PHE:HB2	2.04	0.40
4:JE:107:HIS:O	4:JE:152:LEU:HD12	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:JE:172:TYR:CG	4:JE:173:PRO:HD2	2.56	0.40
4:JE:229:ARG:NH1	4:JE:233:GLN:HB2	2.37	0.40
3:JF:20:PHE:CZ	3:JF:24:ILE:HD11	2.57	0.40
3:JF:31:ASP:OD2	3:JF:35:THR:OG1	2.33	0.40
3:JF:51:TYR:CD1	3:JF:61:PRO:HA	2.56	0.40
3:JF:117:LEU:O	3:JF:121:ARG:HG2	2.22	0.40
3:JF:337:ASN:OD1	3:JF:337:ASN:N	2.54	0.40
4:JG:239:THR:HA	4:JG:242:LEU:HD13	2.03	0.40
4:JI:135:PHE:O	4:JI:167:LEU:HB2	2.21	0.40
4:JI:288:VAL:O	4:JI:292:THR:OG1	2.30	0.40
3:JJ:183:TYR:CD1	3:JJ:388:MET:HE3	2.56	0.40
4:JK:47:ASP:CG	4:JK:48:SER:H	2.30	0.40
4:JK:176:GLN:NE2	4:JK:177:VAL:HG23	2.36	0.40
4:JK:297:GLU:HB3	4:JK:300:ASN:OD1	2.22	0.40
3:JL:3:GLU:HG2	3:JL:130:LEU:HD23	2.03	0.40
3:JL:249:ASP:O	3:JL:253:LEU:HG	2.22	0.40
3:JL:267:MET:O	3:JL:368:ILE:HD12	2.20	0.40
21:K2:116:ASP:OD1	21:K2:117:ALA:N	2.53	0.40
21:K3:189:GLU:O	21:K3:191:ILE:HG13	2.21	0.40
21:K3:270:PRO:HA	37:YK:160:ARG:HE	1.86	0.40
21:K3:332:VAL:O	21:K3:335:SER:OG	2.25	0.40
21:K3:386:ASN:ND2	4:KI:163:LYS:HB3	2.36	0.40
21:K3:406:GLY:O	21:K3:407:THR:OG1	2.28	0.40
21:K4:23:GLN:O	21:K4:27:ALA:N	2.45	0.40
4:KA:154:MET:HE3	4:KA:194:THR:HG22	2.04	0.40
3:KB:30:ILE:HG13	3:KB:36:TYR:CD1	2.56	0.40
3:KD:19:LYS:HA	3:KD:22:GLU:HG3	2.03	0.40
3:KD:213:ARG:NE	3:KD:213:ARG:HA	2.36	0.40
4:KE:391:LEU:O	4:KE:395:PHE:N	2.49	0.40
4:KG:1:MET:HB2	4:KG:2:ARG:H	1.69	0.40
4:KG:11:GLN:HG3	39:KG:501:GTP:O1B	2.21	0.40
3:KH:118:ASP:OD1	3:KH:121:ARG:NH1	2.54	0.40
3:KH:408:PHE:O	3:KH:412:GLU:HG3	2.22	0.40
4:KI:102:ASN:ND2	4:KI:411:GLU:OE2	2.48	0.40
4:KI:115:VAL:HG21	4:KI:156:ARG:HD3	2.04	0.40
4:KI:229:ARG:NH1	4:KI:366:GLY:HA2	2.36	0.40
4:KI:260:VAL:O	3:KJ:397:TRP:HH2	2.05	0.40
3:KJ:5:VAL:HB	3:KJ:133:PHE:HE1	1.86	0.40
3:KJ:258:VAL:HB	4:KK:407:TRP:HZ2	1.87	0.40
3:KJ:299:MET:HE2	3:KJ:303:CYS:C	2.46	0.40
3:KL:223:GLY:O	3:KL:227:HIS:N	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:L:108:LEU:HD23	20:L:163:LEU:HD11	2.02	0.40
20:L:127:THR:O	20:L:154:ILE:HG13	2.21	0.40
22:L2:84:LYS:HE2	22:L2:84:LYS:HB2	1.91	0.40
22:L2:174:ASN:O	22:L2:177:GLN:HB2	2.20	0.40
22:L3:65:LYS:C	3:LH:414:ASN:HD21	2.29	0.40
22:L3:128:LYS:HZ1	4:MK:214:ARG:HG2	1.86	0.40
3:LB:152:ILE:HA	3:LB:155:ILE:HG12	2.04	0.40
4:LC:69:ASP:N	4:LC:93:ILE:O	2.54	0.40
4:LC:254:GLU:OE1	4:LC:254:GLU:N	2.46	0.40
4:LC:365:GLY:O	27:Q:108:ARG:HB2	2.21	0.40
3:LD:101:TRP:CZ3	3:LD:106:TYR:HE1	2.39	0.40
3:LD:117:LEU:HD11	3:LD:154:LYS:HD2	2.02	0.40
3:LD:121:ARG:HA	3:LD:124:ALA:HB3	2.03	0.40
4:LE:34:GLY:O	4:LE:60:LYS:HA	2.21	0.40
4:LE:49:PHE:O	4:LE:52:PHE:N	2.53	0.40
4:LE:100:ALA:C	4:LE:102:ASN:H	2.30	0.40
4:LE:137:ILE:HG22	4:LE:139:HIS:ND1	2.37	0.40
4:LG:226:ASN:O	4:LG:230:LEU:HG	2.21	0.40
3:LH:3:GLU:HB2	3:LH:62:ARG:NH2	2.36	0.40
3:LH:69:GLU:OE1	3:LH:72:THR:HG23	2.22	0.40
4:LI:102:ASN:ND2	4:LI:105:ARG:HB2	2.37	0.40
3:LJ:32:PRO:O	3:LJ:83:GLN:NE2	2.51	0.40
4:LK:110:ILE:O	4:LK:114:ILE:HG22	2.22	0.40
4:LK:290:GLU:HG2	4:LK:291:ILE:N	2.37	0.40
3:LL:319:GLY:HA2	3:LL:357:PRO:HG3	2.02	0.40
3:MB:2:ARG:HH22	3:MB:251:ARG:NH2	2.19	0.40
3:MB:239:CYS:HA	3:MB:246:LEU:HD11	2.03	0.40
3:MB:337:ASN:HD22	3:MB:340:TYR:HD2	1.69	0.40
3:MD:173:PRO:HB3	3:MD:380:ARG:CZ	2.52	0.40
3:MD:376:GLU:H	3:MD:376:GLU:CD	2.24	0.40
4:ME:40:LYS:HB2	4:ME:40:LYS:HE2	1.88	0.40
4:ME:89:PRO:HB2	4:ME:90:GLU:OE1	2.22	0.40
4:ME:185:TYR:O	4:ME:189:LEU:HG	2.21	0.40
4:ME:360:PRO:HG2	4:ME:374:ALA:HB2	2.04	0.40
3:MF:77:ARG:O	3:MF:82:GLY:HA3	2.21	0.40
4:MG:117:LEU:O	4:MG:121:ARG:HG2	2.22	0.40
3:MH:266:PHE:HD1	3:MH:370:ASN:HB2	1.87	0.40
4:MI:270:ALA:C	4:MI:271:THR:HG1	2.27	0.40
3:MJ:11:GLN:O	3:MJ:15:GLN:NE2	2.55	0.40
3:MJ:12:CYS:O	3:MJ:16:ILE:HG12	2.22	0.40
3:MJ:271:ALA:HB2	3:MJ:365:ALA:HB3	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MJ:324:LYS:HG2	4:MK:221:ARG:HH12	1.86	0.40
4:MK:67:PHE:HB2	4:MK:92:LEU:HD13	2.02	0.40
4:MK:76:ASP:OD1	4:MK:79:ARG:NH2	2.54	0.40
4:MK:323:VAL:HG21	4:MK:355:ILE:HD12	2.03	0.40
4:MK:384:ILE:HB	4:MK:388:TRP:HZ3	1.86	0.40
3:ML:267:MET:HA	3:ML:268:PRO:HD3	1.90	0.40
4:MM:135:PHE:CE2	4:MM:166:LYS:HE3	2.56	0.40
4:MM:392:ASP:O	4:MM:396:ASP:N	2.45	0.40
26:N3:75:LEU:HD12	26:N3:76:ALA:HB2	2.02	0.40
4:NA:11:GLN:O	4:NA:14:VAL:HG22	2.22	0.40
4:NA:229:ARG:NH1	4:NA:233:GLN:HB2	2.36	0.40
3:NB:52:ASN:ND2	3:NB:62:ARG:HD3	2.36	0.40
4:NC:286:LEU:HD23	4:NC:286:LEU:H	1.86	0.40
4:NC:402:ARG:HB2	4:NC:405:VAL:HG11	2.03	0.40
3:ND:289:LEU:HD21	3:ND:363:MET:HB3	2.03	0.40
4:NE:88:HIS:CD2	4:OE:280:LYS:HZ1	2.38	0.40
4:NE:346:TRP:N	4:NE:346:TRP:CD1	2.88	0.40
4:NE:414:GLU:HG2	4:NE:417:GLU:OE1	2.22	0.40
3:NF:156:ARG:CZ	3:NF:164:MET:HE3	2.52	0.40
3:NF:292:GLN:HA	3:NF:295:ASP:OD2	2.22	0.40
3:NF:347:ASN:HB3	4:NG:178:SER:HB3	2.03	0.40
4:NG:274:PRO:HG3	4:NG:374:ALA:HA	2.03	0.40
3:NH:311:LEU:HB2	3:NH:370:ASN:O	2.21	0.40
4:NI:315:CYS:O	4:NI:351:PHE:HA	2.20	0.40
3:NJ:11:GLN:O	3:NJ:14:ASN:HB2	2.21	0.40
3:NJ:245:GLN:OE1	4:NK:15:GLN:NE2	2.54	0.40
4:NK:2:ARG:NE	4:NK:242:LEU:HG	2.37	0.40
4:NK:104:ALA:HB1	4:NK:108:TYR:CD2	2.56	0.40
28:O2:50:LEU:O	28:O2:53:VAL:HG22	2.22	0.40
28:O2:84:ARG:HE	28:O2:85:THR:H	1.69	0.40
28:O3:6:SER:HB3	28:O3:28:THR:OG1	2.21	0.40
4:OC:42:ILE:HG21	4:OC:59:GLY:HA2	2.04	0.40
4:OC:269:LEU:O	4:OC:378:LEU:HA	2.22	0.40
4:OE:132:LEU:O	4:OE:132:LEU:HD12	2.20	0.40
4:OE:262:TYR:CE1	3:OF:393:ALA:HA	2.56	0.40
3:OF:262:ARG:HB2	3:OF:421:GLU:OE2	2.21	0.40
4:OG:34:GLY:HA3	4:OG:60:LYS:HD2	2.03	0.40
4:OG:163:LYS:HD3	4:OG:163:LYS:HA	1.76	0.40
3:OH:114:ASP:N	3:OH:114:ASP:OD1	2.53	0.40
4:OI:263:PRO:HB2	4:OI:264:ARG:CZ	2.52	0.40
3:OJ:197:ASP:OD1	3:OJ:198:GLU:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:OJ:324:LYS:HG3	4:OK:221:ARG:CZ	2.51	0.40
3:OL:102:ALA:O	3:OL:106:TYR:N	2.49	0.40
27:P:218:LYS:HE3	27:P:218:LYS:HB3	1.82	0.40
27:P:294:GLU:O	27:P:298:LEU:N	2.47	0.40
29:P1:22:PHE:HD2	29:P1:312:SER:HA	1.86	0.40
29:P1:144:LYS:HG3	29:P1:146:ASP:OD1	2.22	0.40
29:P1:150:GLY:O	4:VC:40:LYS:HD2	2.21	0.40
29:P1:538:ARG:NE	29:P1:540:LEU:HD21	2.36	0.40
29:P2:552:ASP:HB3	29:P2:595:ILE:HG13	2.03	0.40
29:P2:594:ARG:O	29:P2:602:ILE:HD12	2.21	0.40
4:PC:104:ALA:HB1	4:PC:108:TYR:CD2	2.57	0.40
4:PC:423:GLU:HA	4:PC:426:ALA:HB3	2.03	0.40
3:PD:164:MET:O	3:PD:164:MET:HG2	2.21	0.40
3:PD:187:LEU:HD21	3:PD:408:PHE:CE1	2.57	0.40
4:PE:319:TYR:N	4:PE:354:GLY:O	2.55	0.40
4:PG:70:LEU:HB3	4:PG:97:GLU:O	2.21	0.40
3:PH:41:ASP:HB2	37:YM:23:PHE:HZ	1.87	0.40
4:PI:45:GLY:HA2	4:PI:49:PHE:HE1	1.85	0.40
4:PI:118:VAL:HA	4:PI:121:ARG:HG2	2.03	0.40
4:PI:263:PRO:HB2	4:PI:264:ARG:NH1	2.35	0.40
3:PJ:250:LEU:HD13	3:PJ:253:LEU:HD12	2.04	0.40
4:PK:84:ARG:NH2	37:YR:124:HIS:HA	2.37	0.40
4:PK:174:ALA:HB3	4:PK:177:VAL:O	2.21	0.40
4:PM:36:MET:HE3	4:PM:61:HIS:CE1	2.56	0.40
4:PM:196:GLU:OE1	4:PM:196:GLU:N	2.45	0.40
30:Q1:1450:CYS:O	30:Q1:1453:PRO:HD2	2.22	0.40
30:Q1:1468:LEU:HB3	30:Q1:1504:LYS:O	2.21	0.40
30:Q2:1419:ARG:HE	30:Q2:1420:ILE:H	1.69	0.40
3:QB:324:LYS:HE2	4:QC:222:PRO:CD	2.51	0.40
4:QC:70:LEU:HB2	4:QC:145:THR:HG21	2.03	0.40
3:QD:318:ARG:HB3	3:QD:364:SER:OG	2.22	0.40
4:QE:6:SER:HA	4:QE:136:LEU:HB2	2.03	0.40
3:QF:173:PRO:HA	3:QF:380:ARG:CZ	2.51	0.40
4:QI:186:ASN:OD1	4:QI:187:SER:N	2.55	0.40
4:QI:206:ASN:OD1	4:QI:206:ASN:N	2.54	0.40
4:QI:280:LYS:HD2	4:QI:280:LYS:HA	1.76	0.40
3:QJ:137:HIS:O	3:QJ:168:SER:HA	2.22	0.40
4:QK:311:LYS:HE3	4:QK:344:VAL:HA	2.02	0.40
4:QM:398:MET:HA	4:QM:401:LYS:HE2	2.03	0.40
27:R:195:ALA:C	27:R:199:MET:HE3	2.46	0.40
3:RB:40:SER:HB3	3:RB:43:GLN:NE2	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:RC:239:THR:OG1	4:RC:243:ARG:NH1	2.46	0.40
3:RD:138:SER:HB3	39:RD:501:GTP:H5"	2.03	0.40
3:RD:376:GLU:HG2	3:RD:377:LEU:HD12	2.03	0.40
3:RF:20:PHE:HA	3:RF:230:SER:HB2	2.03	0.40
3:RF:77:ARG:O	3:RF:77:ARG:NH1	2.43	0.40
3:RF:284:LEU:HD23	3:RF:363:MET:HE3	2.04	0.40
4:RG:387:ALA:HA	4:RG:390:ARG:NH1	2.36	0.40
3:RJ:271:ALA:HB1	3:RJ:272:PRO:HD2	2.02	0.40
3:RJ:324:LYS:H	3:RJ:324:LYS:HG2	1.71	0.40
4:RK:2:ARG:HA	4:RK:133:GLN:NE2	2.37	0.40
4:RK:36:MET:HG3	4:RK:41:THR:OG1	2.22	0.40
4:RM:182:VAL:O	4:RM:185:TYR:HB2	2.22	0.40
4:RM:246:GLY:HA2	4:RM:357:TYR:CD2	2.57	0.40
32:S:395:GLU:HB3	32:S:400:GLN:NE2	2.36	0.40
3:SD:249:ASP:O	3:SD:252:LYS:HB3	2.21	0.40
3:SD:330:MET:HG3	3:SD:349:VAL:HG11	2.03	0.40
3:SD:385:PHE:O	3:SD:389:PHE:HD2	2.02	0.40
4:SE:297:GLU:HG2	4:SE:298:PRO:HD2	2.03	0.40
3:SF:391:ARG:C	3:SF:392:LYS:HG3	2.46	0.40
4:SG:36:MET:HG3	4:SG:41:THR:OG1	2.21	0.40
4:SG:167:LEU:HB3	4:SG:169:PHE:CZ	2.56	0.40
3:SH:261:PRO:O	3:SH:264:HIS:NE2	2.55	0.40
3:SJ:5:VAL:HG23	3:SJ:130:LEU:HD21	2.03	0.40
3:SJ:172:SER:OG	3:SJ:205:GLU:OE2	2.21	0.40
3:SJ:300:MET:N	3:SJ:300:MET:SD	2.94	0.40
4:SK:279:GLU:HA	4:SK:282:TYR:HB3	2.01	0.40
3:SL:11:GLN:O	3:SL:14:ASN:HB2	2.22	0.40
3:SL:268:PRO:HD2	3:SL:301:ALA:HB2	2.04	0.40
3:SL:391:ARG:C	3:SL:392:LYS:HG3	2.47	0.40
4:SM:102:ASN:HD21	4:SM:411:GLU:CD	2.29	0.40
4:TC:349:THR:HG23	3:TD:179:VAL:HG12	2.03	0.40
4:TC:397:LEU:O	4:TC:401:LYS:HG2	2.22	0.40
3:TD:167:PHE:HZ	3:TD:229:VAL:CG2	2.35	0.40
4:TE:263:PRO:O	4:TE:264:ARG:HB2	2.21	0.40
3:TF:217:LEU:O	3:TF:219:THR:N	2.54	0.40
3:TF:404:ASP:OD1	3:TF:404:ASP:N	2.54	0.40
3:TJ:15:GLN:HB2	3:TJ:222:TYR:HE2	1.86	0.40
3:TJ:117:LEU:HB3	3:TJ:121:ARG:NH2	2.37	0.40
3:TJ:320:ARG:HH11	3:TJ:320:ARG:C	2.30	0.40
4:TK:35:GLN:OE1	33:U:259:ARG:NH2	2.53	0.40
3:TL:299:MET:HE1	3:TL:305:PRO:HD2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:TM:5:ILE:HG13	4:TM:125:LEU:HD13	2.04	0.40
4:TM:72:PRO:HA	4:TM:75:VAL:HG12	2.03	0.40
3:TN:240:LEU:HD13	3:TN:248:ALA:HB1	2.04	0.40
33:U:260:HIS:ND1	33:U:263:GLU:OE1	2.54	0.40
33:U:393:ARG:O	33:U:396:GLU:HG2	2.21	0.40
33:U:435:LEU:O	33:U:439:VAL:HG23	2.21	0.40
4:UA:438:ASP:HA	3:UB:391:ARG:HH12	1.85	0.40
3:UB:31:ASP:OD1	3:UB:31:ASP:N	2.54	0.40
4:UC:90:GLU:OE1	4:UC:90:GLU:N	2.52	0.40
4:UC:154:MET:HA	4:UC:157:LEU:HG	2.03	0.40
4:UC:160:ASP:OD1	4:UC:161:TYR:N	2.55	0.40
4:UC:370:LYS:H	4:UC:370:LYS:HG2	1.70	0.40
3:UD:20:PHE:O	3:UD:24:ILE:HG13	2.22	0.40
3:UD:137:HIS:O	3:UD:168:SER:HA	2.21	0.40
4:UE:286:LEU:HD23	4:UE:286:LEU:H	1.86	0.40
3:UF:275:SER:HA	3:UF:276:ARG:HH21	1.86	0.40
3:UF:305:PRO:HA	3:UF:373:ALA:HB2	2.04	0.40
3:UH:132:GLY:CA	3:UH:163:ILE:H	2.35	0.40
3:UH:174:LYS:HG2	3:UH:205:GLU:OE2	2.22	0.40
3:UH:348:ASN:OD1	3:UH:348:ASN:N	2.53	0.40
4:UI:174:ALA:HB3	4:UI:177:VAL:O	2.22	0.40
3:UJ:72:THR:O	3:UJ:75:SER:OG	2.32	0.40
3:UJ:238:THR:HG21	3:UJ:318:ARG:CZ	2.52	0.40
4:VA:45:GLY:HA2	4:VA:55:GLU:O	2.21	0.40
4:VA:438:ASP:HA	3:VB:391:ARG:HH22	1.85	0.40
3:VB:41:ASP:N	3:VB:41:ASP:OD1	2.54	0.40
3:VB:81:PHE:O	3:VB:84:ILE:HG22	2.21	0.40
3:VB:271:ALA:HB1	3:VB:272:PRO:CD	2.51	0.40
4:VC:165:SER:C	4:VC:166:LYS:HD2	2.47	0.40
4:VC:174:ALA:HB3	4:VC:177:VAL:O	2.22	0.40
3:VD:32:PRO:C	3:VD:83:GLN:HE21	2.25	0.40
3:VD:267:MET:HG3	3:VD:301:ALA:CB	2.49	0.40
3:VF:318:ARG:HA	3:VF:354:CYS:HB3	2.02	0.40
3:VF:323:MET:HE2	4:VG:224:TYR:HD1	1.86	0.40
4:VG:20:CYS:SG	4:VG:21:TRP:N	2.93	0.40
4:VG:209:ILE:O	4:VG:212:ILE:HG22	2.21	0.40
4:VG:230:LEU:HD12	4:VG:231:ILE:N	2.36	0.40
3:VH:77:ARG:HD3	3:VH:90:PHE:HE2	1.86	0.40
4:VI:201:ALA:HB3	4:VI:267:PHE:CD1	2.57	0.40
4:VI:359:PRO:HA	4:VI:360:PRO:HD3	1.97	0.40
4:VK:346:TRP:NE1	3:VL:391:ARG:HH11	2.19	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:VL:66:VAL:HA	3:VL:91:VAL:O	2.21	0.40
33:W:299:GLN:O	33:W:303:ARG:HG2	2.22	0.40
33:W:368:GLU:OE1	33:W:369:ILE:N	2.53	0.40
3:WB:270:PHE:CG	3:WB:271:ALA:N	2.89	0.40
4:WC:1:MET:HE3	4:WC:50:ASN:ND2	2.36	0.40
4:WC:208:ALA:H	4:WC:304:LYS:NZ	2.07	0.40
4:WE:326:LYS:NZ	3:WF:211:CYS:HB3	2.36	0.40
3:WF:233:MET:HA	3:WF:236:VAL:HG12	2.02	0.40
4:WG:2:ARG:NH1	4:WG:241:SER:O	2.54	0.40
4:WG:333:ALA:O	4:WG:337:THR:HG23	2.21	0.40
3:WH:401:GLU:OE1	3:WH:403:MET:HG2	2.22	0.40
4:WI:186:ASN:OD1	4:WI:187:SER:N	2.55	0.40
4:WI:279:GLU:O	4:WI:283:HIS:HD2	2.04	0.40
4:WI:286:LEU:HG	4:WI:373:ARG:HD2	2.03	0.40
4:WI:331:ALA:O	4:WI:335:ILE:HG12	2.22	0.40
3:WJ:31:ASP:OD1	3:WJ:31:ASP:N	2.52	0.40
3:WJ:292:GLN:HA	3:WJ:295:ASP:OD2	2.22	0.40
3:WJ:324:LYS:HD3	4:WK:210:TYR:CE1	2.56	0.40
4:WK:174:ALA:HB3	4:WK:177:VAL:O	2.22	0.40
4:WK:271:THR:HB	4:WK:377:MET:HE2	2.03	0.40
3:WL:173:PRO:O	3:WL:380:ARG:NH2	2.54	0.40
3:WL:379:LYS:O	3:WL:382:SER:OG	2.18	0.40
34:XB:73:LEU:HB3	34:XB:168:SER:O	2.21	0.40
34:XE:93:VAL:HG12	34:XE:151:THR:HA	2.02	0.40
34:XF:27:LYS:C	34:XF:28:LYS:HD3	2.47	0.40
35:XH:216:PHE:O	35:XH:220:GLY:N	2.54	0.40
35:XK:205:ILE:O	35:XK:209:ILE:HG13	2.21	0.40
35:XL:104:THR:O	35:XL:108:GLU:N	2.51	0.40
37:YA:43:ILE:HD13	37:YA:134:TYR:CE1	2.57	0.40
37:YA:108:ASN:OD1	37:YA:110:LEU:HB2	2.21	0.40
37:YI:33:ARG:HD3	37:YI:39:LYS:HB3	2.03	0.40
37:YJ:108:ASN:HB3	37:YJ:110:LEU:HD13	2.04	0.40
37:YQ:15:TYR:HA	37:YQ:18:PHE:HB3	2.04	0.40
37:YQ:154:HIS:HA	37:YQ:157:LYS:HG2	2.03	0.40
37:YR:46:ILE:HD12	37:YR:46:ILE:H	1.86	0.40
37:YS:118:PRO:O	37:YS:119:HIS:C	2.64	0.40
37:YS:125:LEU:HD11	37:YS:138:VAL:HG21	2.02	0.40
37:YU:90:THR:N	37:YU:93:THR:OG1	2.54	0.40
37:YW:14:LYS:HD3	37:YW:15:TYR:CD1	2.57	0.40
36:Z:471:GLU:O	36:Z:475:PHE:HB2	2.21	0.40
38:a:45:LEU:O	38:a:49:LEU:N	2.44	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A1:356:ALA:O	2:A1:360:THR:HG23	2.22	0.40
2:A2:22:SER:HB2	2:A2:26:ARG:HH12	1.85	0.40
2:A2:62:LYS:O	2:A2:66:ARG:HG2	2.21	0.40
2:A2:73:TRP:HH2	2:A2:218:LEU:HD23	1.85	0.40
2:A2:145:GLY:O	2:A2:149:LEU:HG	2.22	0.40
2:A2:255:ARG:HA	2:A2:258:GLU:OE1	2.21	0.40
2:A2:336:ARG:HD3	2:A3:58:ASP:OD2	2.22	0.40
2:A2:379:LYS:HA	2:A2:379:LYS:HD2	1.80	0.40
2:A2:395:LYS:HD3	7:C3:459:LEU:HD13	2.03	0.40
2:A3:21:LYS:HA	2:A3:24:TYR:HD2	1.86	0.40
2:A3:300:GLU:O	2:A3:304:THR:HG23	2.22	0.40
2:A4:157:SER:O	2:A4:161:ILE:HG13	2.21	0.40
2:A4:207:ILE:HD12	2:A4:207:ILE:HA	1.93	0.40
3:AB:378:PHE:CD1	3:AB:419:VAL:HG22	2.57	0.40
3:AD:324:LYS:HE2	4:AE:222:PRO:CD	2.51	0.40
4:AE:420:GLU:HA	4:AE:423:GLU:OE2	2.21	0.40
4:AI:5:ILE:HB	4:AI:135:PHE:HD1	1.86	0.40
4:AI:280:LYS:HZ3	4:MI:89:PRO:HD2	1.84	0.40
4:AK:196:GLU:OE1	4:AK:196:GLU:N	2.40	0.40
4:AK:252:LEU:HD12	4:AK:253:THR:N	2.36	0.40
4:AM:7:ILE:HB	4:AM:137:ILE:HA	2.03	0.40
4:AM:23:LEU:HD12	4:AM:232:GLY:HA3	2.04	0.40
5:B1:299:ARG:HA	5:B1:302:GLU:CD	2.46	0.40
5:B2:296:ASP:HA	5:B2:299:ARG:NH1	2.36	0.40
5:B6:76:GLU:HB2	10:E3:163:ARG:HH21	1.87	0.40
5:B6:142:GLU:HA	5:B6:145:GLU:OE2	2.22	0.40
5:B7:132:PRO:HA	5:B7:135:GLU:HG2	2.03	0.40
5:B8:48:GLU:HB3	19:J1:97:ARG:NH2	2.35	0.40
5:B8:120:ARG:NH1	5:B8:390:CYS:HB3	2.37	0.40
5:B8:228:ARG:HH22	5:B8:232:GLU:HG2	1.87	0.40
5:B9:270:ARG:HH21	7:C1:152:ASP:HA	1.87	0.40
5:B9:283:GLU:HB3	5:B9:373:ILE:HG21	2.03	0.40
3:BB:182:PRO:HA	3:BB:381:ILE:HD11	2.02	0.40
3:BB:247:ASN:CB	3:BB:252:LYS:HG2	2.48	0.40
4:BC:168:GLU:HB2	4:BC:201:ALA:HA	2.03	0.40
3:BD:21:TRP:CZ2	3:BD:63:ALA:HB2	2.56	0.40
3:BD:318:ARG:C	3:BD:321:MET:HE1	2.45	0.40
4:BE:188:ILE:HG22	4:BE:421:ALA:HB1	2.03	0.40
4:BE:306:ASP:OD2	4:BE:309:HIS:N	2.54	0.40
3:BF:309:ARG:N	3:BF:372:THR:HG1	2.13	0.40
3:BF:423:GLN:O	3:BF:427:ASP:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BG:327:ASP:OD1	4:BG:328:VAL:N	2.55	0.40
3:BH:324:LYS:HE3	3:BH:324:LYS:HB3	1.87	0.40
4:BI:103:TYR:HB2	4:BI:186:ASN:HB2	2.04	0.40
3:BJ:32:PRO:O	3:BJ:84:ILE:HD11	2.21	0.40
3:BJ:52:ASN:ND2	3:BJ:62:ARG:HD3	2.36	0.40
4:BK:53:PHE:HB3	4:BK:61:HIS:HB3	2.04	0.40
4:BK:166:LYS:N	4:BK:199:ASP:OD2	2.54	0.40
3:BL:32:PRO:C	3:BL:83:GLN:HE21	2.25	0.40
3:BL:175:VAL:HG22	3:BL:177:ASP:H	1.86	0.40
4:BM:65:ALA:C	4:BM:91:GLN:HE21	2.30	0.40
4:BM:142:GLY:HA2	4:BM:183:GLU:HG2	2.03	0.40
6:C:165:TYR:CE2	7:Cb:155:PHE:HA	2.56	0.40
6:C:186:ASP:OD1	6:C:190:GLU:HG2	2.22	0.40
7:C3:448:LEU:HD23	7:C3:448:LEU:HA	1.87	0.40
7:C4:198:CYS:O	7:C4:472:LYS:NZ	2.47	0.40
7:C8:462:LYS:HG3	7:C8:463:ALA:N	2.35	0.40
7:C9:436:GLN:HA	7:C9:439:ARG:HH11	1.87	0.40
3:CB:35:THR:HG22	3:CB:58:LYS:HE3	2.03	0.40
3:CB:69:GLU:CD	3:CB:71:GLY:H	2.29	0.40
3:CB:101:TRP:HB2	3:CB:184:ASN:HD22	1.87	0.40
3:CB:171:PRO:HG3	3:CB:181:GLU:OE2	2.21	0.40
3:CD:166:THR:OG1	3:CD:199:THR:HA	2.21	0.40
3:CD:253:LEU:HB3	3:CD:257:MET:HE2	2.03	0.40
3:CD:255:VAL:HG12	4:CE:407:TRP:CD2	2.57	0.40
4:CE:9:VAL:HG22	4:CE:146:GLY:HA2	2.03	0.40
4:CE:88:HIS:HE1	4:CE:90:GLU:CD	2.30	0.40
4:CE:288:VAL:HG11	4:CE:327:ASP:HB2	2.02	0.40
3:CF:2:ARG:HH11	3:CF:129:CYS:HB2	1.87	0.40
3:CF:253:LEU:O	3:CF:257:MET:HG2	2.21	0.40
4:CG:104:ALA:HA	4:CG:107:HIS:HB3	2.03	0.40
4:CI:286:LEU:HD23	4:CI:286:LEU:H	1.85	0.40
3:CJ:42:LEU:HB2	3:CJ:46:ARG:NH2	2.37	0.40
3:CJ:249:ASP:O	3:CJ:253:LEU:HG	2.22	0.40
4:CK:103:TYR:HB2	4:CK:186:ASN:HB2	2.03	0.40
4:CK:229:ARG:NH2	4:CK:367:ASP:H	2.19	0.40
4:CM:119:LEU:HA	4:CM:122:ILE:HG12	2.04	0.40
4:CM:168:GLU:HB2	4:CM:201:ALA:HA	2.03	0.40
4:CM:220:GLU:OE1	4:CM:220:GLU:N	2.49	0.40
4:CM:399:TYR:OH	4:CM:415:GLU:OE1	2.39	0.40
7:Cb:270:LYS:HA	7:Cb:270:LYS:HD2	1.91	0.40
7:Cc:132:TYR:CZ	7:Cc:136:ARG:HD2	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Cc:186:ILE:HA	7:Cc:189:GLU:OE1	2.22	0.40
7:Cc:271:CYS:O	7:Cc:274:LEU:HD23	2.21	0.40
6:D:28:PHE:N	6:D:45:LEU:O	2.53	0.40
6:D:125:ALA:H	6:D:281:ARG:HH12	1.68	0.40
8:D2:101:ARG:HH21	13:G1:22:LYS:HZ1	1.68	0.40
8:D2:117:LEU:HA	8:D2:117:LEU:HD23	1.84	0.40
8:D3:217:ASP:O	8:D3:221:VAL:HG13	2.22	0.40
8:D3:298:ASP:HB3	27:Q:19:ARG:NH1	2.36	0.40
8:D3:423:LEU:HD23	8:D3:423:LEU:HA	1.71	0.40
8:D4:326:LEU:O	8:D4:330:THR:HG23	2.22	0.40
8:D5:369:CYS:C	8:D5:370:ARG:HD2	2.47	0.40
8:D7:163:GLN:HG3	8:D7:165:PRO:HD2	2.03	0.40
8:D8:209:GLU:O	8:D8:213:MET:HG2	2.22	0.40
8:D8:430:CYS:O	8:D8:434:ARG:HG3	2.21	0.40
8:D9:321:HIS:C	8:Da:71:ARG:HH22	2.25	0.40
4:DA:285:GLN:NE2	4:DA:286:LEU:O	2.54	0.40
3:DD:150:LEU:C	3:DD:154:LYS:HZ3	2.30	0.40
3:DD:178:THR:HB	3:DD:181:GLU:HB2	2.02	0.40
3:DF:132:GLY:HA3	3:DF:163:ILE:H	1.86	0.40
3:DH:188:SER:O	3:DH:192:LEU:HG	2.22	0.40
3:DH:214:THR:HG23	3:DH:215:LEU:HD22	2.03	0.40
3:DH:228:LEU:O	3:DH:232:THR:HG23	2.22	0.40
3:DH:324:LYS:HG3	4:DI:221:ARG:NH1	2.37	0.40
4:DI:68:VAL:HG12	4:DI:93:ILE:HB	2.03	0.40
4:DI:167:LEU:HB3	4:DI:169:PHE:CZ	2.56	0.40
4:DI:255:PHE:O	4:DI:259:LEU:HB2	2.21	0.40
3:DJ:346:PRO:HG2	4:DK:394:LYS:HZ3	1.86	0.40
4:DK:70:LEU:HB3	4:DK:97:GLU:O	2.21	0.40
4:DK:75:VAL:HA	4:DK:78:VAL:HG22	2.03	0.40
3:DL:6:HIS:HE1	3:DL:8:GLN:HB2	1.86	0.40
3:DL:41:ASP:N	3:DL:41:ASP:OD1	2.51	0.40
3:DL:137:HIS:O	3:DL:168:SER:HA	2.22	0.40
9:E:417:ARG:NH2	3:IB:227:HIS:HB3	2.37	0.40
9:E:447:TYR:HE1	9:E:450:GLY:H	1.64	0.40
4:EA:31:GLN:NE2	4:EA:37:PRO:HD3	2.37	0.40
3:EB:229:VAL:O	3:EB:232:THR:OG1	2.34	0.40
3:EB:322:SER:HB3	3:EB:325:GLU:OE1	2.21	0.40
4:EC:362:VAL:HA	4:EC:368:LEU:HD21	2.04	0.40
3:ED:117:LEU:HB3	3:ED:121:ARG:NH2	2.35	0.40
3:ED:226:ASN:HA	3:ED:229:VAL:HG12	2.02	0.40
3:EF:148:GLY:O	3:EF:152:ILE:HG12	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EF:258:VAL:HB	4:EG:407:TRP:HZ2	1.86	0.40
4:EI:68:VAL:HA	4:EI:93:ILE:HB	2.04	0.40
4:EI:260:VAL:HA	4:EI:261:PRO:HD3	1.98	0.40
4:EI:385:ALA:HB2	4:EI:432:TYR:HD2	1.87	0.40
3:EJ:47:ILE:HD11	3:EJ:51:TYR:CD2	2.57	0.40
3:EJ:77:ARG:O	3:EJ:77:ARG:NH1	2.39	0.40
3:EJ:186:THR:HA	3:EJ:189:VAL:HG12	2.02	0.40
3:EJ:337:ASN:HB2	3:EJ:340:TYR:CD2	2.56	0.40
4:EK:135:PHE:CE2	4:EK:164:LYS:HD2	2.57	0.40
3:EL:87:PRO:HA	3:EL:90:PHE:CE2	2.56	0.40
9:F:353:MET:SD	9:F:354:GLY:N	2.95	0.40
11:F1:308:GLN:NE2	11:F1:309:ASN:OD1	2.54	0.40
11:F2:112:TRP:HE1	11:F2:115:ARG:NH2	2.11	0.40
11:F2:228:GLN:HA	11:F2:231:LYS:HE2	2.02	0.40
11:F3:153:LYS:NZ	11:F3:258:SER:HB3	2.35	0.40
11:F3:394:THR:HG21	11:F4:276:SER:O	2.21	0.40
11:F5:296:TRP:O	11:F5:299:PHE:HB3	2.22	0.40
11:F6:128:ASP:HA	11:F6:131:ILE:HG12	2.03	0.40
11:F6:336:PHE:O	11:F6:340:ASN:ND2	2.54	0.40
11:F7:262:TYR:O	11:F7:265:GLU:HG3	2.21	0.40
11:F8:228:GLN:HA	11:F8:231:LYS:HD2	2.03	0.40
4:FA:290:GLU:HG2	4:FA:291:ILE:N	2.36	0.40
3:FB:132:GLY:CA	3:FB:163:ILE:H	2.33	0.40
4:FC:139:HIS:NE2	4:FC:170:ALA:HB2	2.37	0.40
4:FC:310:GLY:HA3	4:FC:383:ALA:HB2	2.03	0.40
4:FE:89:PRO:HD2	4:GE:280:LYS:NZ	2.35	0.40
4:FE:202:PHE:CD1	4:FE:268:PRO:HD2	2.57	0.40
4:FE:260:VAL:HA	4:FE:261:PRO:HD3	1.96	0.40
3:FF:46:ARG:HH22	4:FG:73:THR:HG23	1.87	0.40
3:FF:249:ASP:O	3:FF:253:LEU:HG	2.21	0.40
3:FF:305:PRO:HB2	3:FF:310:TYR:HE1	1.86	0.40
3:FH:309:ARG:N	3:FH:372:THR:OG1	2.29	0.40
4:FI:319:TYR:N	4:FI:354:GLY:O	2.54	0.40
3:FJ:65:LEU:HD21	3:FJ:73:MET:HG2	2.04	0.40
3:FJ:178:THR:HB	3:FJ:181:GLU:HB2	2.03	0.40
4:FK:172:TYR:CE2	4:FK:387:ALA:HB1	2.56	0.40
4:FK:196:GLU:OE1	4:FK:196:GLU:N	2.32	0.40
4:FK:246:GLY:HA3	4:FK:355:ILE:O	2.21	0.40
11:Fa:407:LEU:HD21	11:Fb:288:GLY:HA2	2.03	0.40
11:Fb:234:LYS:HA	11:Fb:234:LYS:HD2	1.86	0.40
11:Fc:298:LYS:HB3	11:Fc:298:LYS:HE3	1.91	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Ff:247:GLN:O	11:Ff:251:GLU:OE1	2.39	0.40
11:Fh:363:LYS:O	11:Fh:366:GLN:NE2	2.54	0.40
11:Fk:419:GLU:CD	14:G4:571:TYR:HB2	2.45	0.40
11:Fl:357:LEU:O	11:Fl:361:LEU:HG	2.21	0.40
12:G:47:TYR:HE1	4:KK:337:THR:HG22	1.87	0.40
13:G1:274:GLU:OE2	13:G1:276:ARG:HG2	2.22	0.40
13:G1:433:ASP:O	13:G1:434:LYS:HE2	2.22	0.40
13:G1:443:PHE:CE2	13:G1:469:ARG:HG2	2.57	0.40
13:G2:187:ASP:OD1	13:G2:187:ASP:N	2.53	0.40
13:G3:102:TYR:CD2	13:G3:117:ILE:HD11	2.55	0.40
13:G3:262:TYR:HD1	13:G3:277:GLU:HA	1.86	0.40
13:G3:353:GLN:O	13:G3:356:LYS:HG2	2.21	0.40
13:G3:424:ALA:N	13:G3:438:PHE:O	2.39	0.40
13:G3:511:TYR:HD1	13:G3:514:LYS:HD2	1.86	0.40
14:G4:6:LEU:HB2	14:G4:9:ASN:OD1	2.22	0.40
14:G4:25:HIS:HA	14:G4:40:LYS:HD2	2.03	0.40
14:G4:415:ARG:NH1	14:G4:417:ASN:HA	2.36	0.40
14:G4:438:GLY:HA3	14:G4:522:LEU:HA	2.03	0.40
14:G4:736:LEU:HA	14:G4:739:LEU:HD12	2.03	0.40
14:G5:735:TYR:HB3	14:G5:739:LEU:HD11	2.04	0.40
14:G6:400:GLU:O	14:G6:404:ARG:N	2.47	0.40
4:GA:3:GLU:CD	4:GA:131:GLY:H	2.28	0.40
4:GC:18:ASN:O	4:GC:22:GLU:HG3	2.22	0.40
3:GF:86:ARG:NE	3:GF:86:ARG:HA	2.37	0.40
4:GG:154:MET:HE3	4:GG:194:THR:HG22	2.03	0.40
4:GG:187:SER:O	4:GG:191:THR:HG23	2.22	0.40
3:GH:41:ASP:OD1	3:GH:41:ASP:N	2.54	0.40
4:GI:47:ASP:O	4:GI:49:PHE:N	2.55	0.40
4:GI:234:ILE:O	4:GI:237:SER:OG	2.36	0.40
4:GI:346:TRP:CH2	4:GI:435:VAL:HA	2.56	0.40
4:GK:331:ALA:O	4:GK:335:ILE:HG12	2.22	0.40
3:GL:267:MET:O	3:GL:368:ILE:HD12	2.22	0.40
15:H1:244:MET:HG3	15:H1:247:PHE:CE2	2.57	0.40
15:H3:26:GLN:NE2	15:H3:42:LEU:HA	2.34	0.40
15:H3:232:MET:HE3	15:H3:232:MET:HB3	1.95	0.40
15:H6:41:GLN:O	15:H6:44:THR:OG1	2.34	0.40
15:H6:42:LEU:O	15:H6:46:PRO:HD2	2.22	0.40
15:H6:216:LYS:HB2	15:H6:237:ARG:NH2	2.32	0.40
15:H6:241:THR:HA	15:H6:244:MET:HE3	2.03	0.40
4:HA:16:ILE:HD11	4:HA:138:PHE:HB3	2.02	0.40
4:HA:102:ASN:ND2	4:HA:105:ARG:HG3	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HB:252:LYS:HD3	4:HC:101:ASN:OD1	2.22	0.40
3:HD:20:PHE:CE1	3:HD:24:ILE:HD11	2.56	0.40
3:HD:46:ARG:NH2	4:HE:73:THR:HA	2.27	0.40
3:HD:312:THR:OG1	3:HD:370:ASN:HB3	2.21	0.40
4:HE:402:ARG:O	4:HE:402:ARG:HG2	2.21	0.40
3:HF:378:PHE:HA	3:HF:381:ILE:HG22	2.03	0.40
3:HF:389:PHE:CE1	3:HF:408:PHE:HD2	2.39	0.40
4:HG:90:GLU:HG2	4:HG:121:ARG:NH2	2.37	0.40
4:HG:119:LEU:HA	4:HG:122:ILE:HG12	2.04	0.40
3:HH:40:SER:HB2	3:HH:43:GLN:CD	2.47	0.40
3:HH:286:VAL:O	3:HH:290:THR:HG23	2.21	0.40
3:HH:313:VAL:O	3:HH:349:VAL:HA	2.22	0.40
4:HI:88:HIS:CE1	4:II:280:LYS:HZ3	2.40	0.40
4:HI:260:VAL:O	3:HJ:397:TRP:HH2	2.05	0.40
3:HJ:330:MET:O	3:HJ:333:VAL:HG12	2.22	0.40
3:HJ:342:VAL:HB	3:HJ:344:TRP:HE3	1.85	0.40
3:HJ:392:LYS:HB2	3:HJ:395:LEU:HD22	2.02	0.40
4:HK:161:TYR:HB3	4:HK:164:LYS:NZ	2.37	0.40
3:HL:81:PHE:O	3:HL:84:ILE:HG22	2.22	0.40
3:HL:197:ASP:OD1	3:HL:198:GLU:N	2.54	0.40
4:IA:76:ASP:OD1	4:IA:77:GLU:N	2.55	0.40
4:IA:430:LYS:HA	4:IA:433:GLU:HG2	2.02	0.40
3:IB:5:VAL:HG23	3:IB:130:LEU:HD11	2.03	0.40
3:IB:32:PRO:C	3:IB:83:GLN:HE21	2.26	0.40
3:IB:197:ASP:OD1	3:IB:198:GLU:N	2.54	0.40
4:IE:88:HIS:HB3	4:IE:91:GLN:CG	2.51	0.40
4:IE:145:THR:HG1	39:IE:501:GTP:PB	2.45	0.40
4:IE:279:GLU:O	4:IE:283:HIS:HD2	2.04	0.40
3:IF:375:GLN:HA	3:IF:378:PHE:CE1	2.56	0.40
3:IH:173:PRO:HD2	3:IH:205:GLU:CD	2.47	0.40
3:IJ:40:SER:HB3	3:IJ:42:LEU:HD23	2.04	0.40
3:IJ:42:LEU:HD23	3:IJ:42:LEU:H	1.87	0.40
3:IJ:113:VAL:HA	3:IJ:116:VAL:HG22	2.03	0.40
3:IJ:156:ARG:CZ	3:IJ:164:MET:HE3	2.52	0.40
3:IJ:394:PHE:HA	3:IJ:397:TRP:HZ3	1.87	0.40
4:IK:320:ARG:CZ	4:IK:360:PRO:HA	2.51	0.40
3:IL:315:ALA:HA	3:IL:367:PHE:HA	2.03	0.40
3:IL:385:PHE:HB3	3:IL:408:PHE:CZ	2.52	0.40
3:JB:188:SER:O	3:JB:192:LEU:HG	2.20	0.40
3:JD:66:VAL:HG12	3:JD:91:VAL:HG13	2.04	0.40
4:JE:71:GLU:HA	4:JE:72:PRO:HD3	1.94	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:JE:262:TYR:CE1	3:JF:393:ALA:HA	2.57	0.40
3:JF:77:ARG:HA	3:JF:77:ARG:HD2	1.91	0.40
4:JG:47:ASP:CG	4:JG:48:SER:H	2.30	0.40
4:JG:85:GLN:OE1	4:JG:85:GLN:N	2.38	0.40
4:JG:160:ASP:OD1	4:JG:161:TYR:N	2.55	0.40
4:JG:251:ASP:HB3	4:JG:254:GLU:OE1	2.21	0.40
4:JI:16:ILE:HG13	4:JI:17:GLY:N	2.35	0.40
3:JJ:48:ASN:HA	3:JJ:51:TYR:O	2.22	0.40
3:JJ:320:ARG:HH12	3:JJ:355:ASP:HB2	1.86	0.40
3:JJ:350:LYS:HE3	4:JK:180:ALA:HA	2.02	0.40
3:JL:11:GLN:OE1	39:JL:501:GTP:N2	2.55	0.40
21:K4:20:GLU:H	21:K4:20:GLU:CD	2.30	0.40
21:K4:189:GLU:C	21:K4:191:ILE:HG13	2.47	0.40
21:K4:332:VAL:O	21:K4:335:SER:OG	2.23	0.40
21:K4:479:ARG:HG3	21:K4:480:LEU:HG	2.03	0.40
4:KA:30:ILE:HD13	4:KA:36:MET:HE3	2.03	0.40
3:KB:249:ASP:OD2	3:KB:251:ARG:HB2	2.22	0.40
3:KB:324:LYS:HE2	4:KC:222:PRO:HG2	2.03	0.40
3:KB:404:ASP:OD1	3:KB:404:ASP:N	2.55	0.40
3:KD:318:ARG:HD3	3:KD:358:PRO:HG3	2.04	0.40
4:KE:224:TYR:HE2	39:KE:501:GTP:C5	2.38	0.40
4:KE:269:LEU:HD11	4:KE:384:ILE:HG21	2.03	0.40
4:KE:333:ALA:O	4:KE:337:THR:HG23	2.21	0.40
3:KF:2:ARG:HB3	3:KF:131:GLN:CD	2.46	0.40
4:KG:260:VAL:HG13	3:KH:397:TRP:CZ2	2.57	0.40
3:KH:48:ASN:HA	3:KH:51:TYR:O	2.22	0.40
4:KI:166:LYS:O	4:KI:199:ASP:HB2	2.21	0.40
4:KK:165:SER:C	4:KK:166:LYS:HD2	2.47	0.40
4:KK:315:CYS:HB3	4:KK:377:MET:CE	2.51	0.40
4:KK:367:ASP:OD1	4:KK:367:ASP:N	2.55	0.40
4:KK:368:LEU:HD23	4:KK:368:LEU:H	1.87	0.40
3:KL:113:VAL:HB	3:KL:154:LYS:HE3	2.04	0.40
3:KL:292:GLN:HA	3:KL:295:ASP:OD2	2.21	0.40
3:KL:294:PHE:HZ	3:KL:310:TYR:CE2	2.39	0.40
20:L:99:GLU:HG2	38:a:43:ARG:NH2	2.36	0.40
22:L2:65:LYS:HA	22:L2:65:LYS:HD3	1.77	0.40
22:L2:85:LYS:HD3	4:LE:264:ARG:N	2.22	0.40
22:L2:144:LYS:N	22:L2:144:LYS:HD3	2.35	0.40
22:L3:75:LYS:NZ	22:L3:76:LYS:O	2.53	0.40
22:L3:77:LYS:HA	22:L3:77:LYS:HD2	1.87	0.40
22:L4:32:ARG:NH1	22:L4:32:ARG:HA	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:LA:201:ALA:H	4:LA:266:HIS:HD2	1.70	0.40
3:LB:216:LYS:HB2	3:LB:276:ARG:NH1	2.37	0.40
3:LD:324:LYS:HE3	4:LE:221:ARG:HD3	2.02	0.40
3:LD:330:MET:HE1	4:LE:177:VAL:HG22	2.02	0.40
4:LE:262:TYR:CE1	3:LF:393:ALA:HA	2.56	0.40
3:LF:15:GLN:O	3:LF:19:LYS:HE2	2.22	0.40
3:LF:151:LEU:HD12	3:LF:152:ILE:N	2.37	0.40
3:LF:305:PRO:HA	3:LF:373:ALA:HB2	2.04	0.40
3:LF:320:ARG:NH1	3:LF:355:ASP:HB2	2.37	0.40
4:LG:28:HIS:HB2	4:LG:30:ILE:HG12	2.04	0.40
4:LI:329:ASN:OD1	4:LI:330:ALA:N	2.55	0.40
4:LI:357:TYR:CD2	27:R:270:LEU:HD22	2.56	0.40
3:LJ:9:ALA:CB	3:LJ:135:LEU:HD11	2.51	0.40
4:LK:431:ASP:O	4:LK:435:VAL:HG22	2.22	0.40
3:LL:12:CYS:SG	3:LL:13:GLY:N	2.95	0.40
3:LL:151:LEU:HD12	3:LL:152:ILE:N	2.36	0.40
24:M1:58:MET:HE3	24:M1:60:TRP:CB	2.52	0.40
3:MB:32:PRO:C	3:MB:83:GLN:HE21	2.29	0.40
3:MB:35:THR:HG22	3:MB:58:LYS:HE3	2.03	0.40
4:MC:174:ALA:HB3	4:MC:177:VAL:O	2.22	0.40
4:MC:207:GLU:OE1	4:MC:304:LYS:HE2	2.22	0.40
4:MC:280:LYS:HZ1	4:MC:284:GLU:CD	2.28	0.40
4:MC:327:ASP:O	4:MC:331:ALA:N	2.44	0.40
3:MD:312:THR:OG1	3:MD:370:ASN:HB3	2.21	0.40
3:MD:346:PRO:HG2	4:ME:394:LYS:NZ	2.36	0.40
4:ME:397:LEU:O	4:ME:401:LYS:HG2	2.20	0.40
4:MG:70:LEU:HB2	4:MG:145:THR:HG21	2.03	0.40
4:MG:312:TYR:HB2	4:MG:343:PHE:HA	2.03	0.40
3:MH:66:VAL:HA	3:MH:91:VAL:O	2.21	0.40
3:MH:86:ARG:HA	3:MH:87:PRO:HD2	1.97	0.40
3:MH:223:GLY:O	3:MH:227:HIS:N	2.44	0.40
4:MI:121:ARG:O	4:MI:125:LEU:HD23	2.22	0.40
4:MI:368:LEU:HD23	4:MI:368:LEU:H	1.86	0.40
3:MJ:285:THR:O	3:MJ:288:GLU:HG3	2.21	0.40
3:MJ:392:LYS:HD2	3:MJ:392:LYS:O	2.21	0.40
4:MK:132:LEU:O	4:MK:132:LEU:HD12	2.21	0.40
3:ML:150:LEU:C	3:ML:154:LYS:HZ3	2.30	0.40
3:ML:209:ASP:O	3:ML:213:ARG:N	2.47	0.40
4:NA:286:LEU:H	4:NA:286:LEU:HD23	1.86	0.40
3:NB:374:ILE:HG22	3:NB:378:PHE:CE2	2.56	0.40
4:NC:115:VAL:HG21	4:NC:156:ARG:HD3	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:NC:145:THR:OG1	39:NC:501:GTP:O1B	2.38	0.40
4:NC:163:LYS:HA	4:NC:163:LYS:HD3	1.77	0.40
4:NC:283:HIS:CD2	4:NC:283:HIS:H	2.38	0.40
3:ND:139:LEU:N	3:ND:168:SER:OG	2.54	0.40
3:ND:166:THR:OG1	3:ND:198:GLU:O	2.32	0.40
3:ND:180:VAL:HG13	3:ND:184:ASN:OD1	2.20	0.40
3:ND:182:PRO:HA	3:ND:381:ILE:HD11	2.03	0.40
3:NF:183:TYR:N	3:NF:388:MET:HE1	2.37	0.40
3:NF:324:LYS:HE2	4:NG:222:PRO:HD2	2.04	0.40
4:NG:1:MET:HE3	4:NG:50:ASN:ND2	2.36	0.40
3:NH:251:ARG:HA	3:NH:251:ARG:NE	2.36	0.40
4:NI:121:ARG:O	4:NI:124:LYS:HG2	2.22	0.40
3:NJ:174:LYS:HG2	3:NJ:205:GLU:OE2	2.22	0.40
3:NJ:185:ALA:O	3:NJ:189:VAL:HG12	2.21	0.40
4:NK:212:ILE:HG13	4:NK:215:ARG:HH21	1.87	0.40
4:NK:319:TYR:HA	4:NK:374:ALA:O	2.22	0.40
28:O2:106:CYS:O	28:O2:107:ASN:HB2	2.21	0.40
4:OA:213:CYS:O	4:OA:218:ASP:N	2.54	0.40
4:OA:319:TYR:HB2	4:OA:355:ILE:HD13	2.04	0.40
3:OB:258:VAL:HB	4:OC:407:TRP:CZ2	2.55	0.40
3:OB:350:LYS:HE3	4:OC:181:VAL:H	1.86	0.40
4:OC:22:GLU:HG2	4:OC:83:TYR:CE2	2.57	0.40
4:OC:87:PHE:HB3	4:OC:92:LEU:CD2	2.50	0.40
4:OC:122:ILE:O	4:OC:126:ALA:N	2.52	0.40
3:OD:6:HIS:HB3	3:OD:21:TRP:HZ2	1.87	0.40
4:OE:51:THR:HG23	4:OE:52:PHE:HD2	1.86	0.40
4:OE:116:ASP:OD1	4:OE:116:ASP:N	2.54	0.40
3:OF:52:ASN:ND2	3:OF:62:ARG:HD3	2.36	0.40
4:OG:291:ILE:HD11	4:OG:319:TYR:HE2	1.85	0.40
4:OI:3:GLU:CD	4:OI:132:LEU:H	2.29	0.40
4:OI:230:LEU:O	4:OI:234:ILE:HG12	2.22	0.40
3:OJ:240:LEU:HD22	3:OJ:248:ALA:HB1	2.04	0.40
3:OJ:374:ILE:HG22	3:OJ:378:PHE:CE2	2.57	0.40
4:OK:35:GLN:HG2	4:OK:59:GLY:O	2.20	0.40
3:OL:58:LYS:NZ	3:OL:84:ILE:HD12	2.36	0.40
3:OL:292:GLN:HA	3:OL:295:ASP:OD2	2.22	0.40
27:P:65:PHE:C	27:P:69:MET:HG2	2.46	0.40
27:P:290:ARG:HE	27:P:293:GLN:NE2	2.19	0.40
29:P1:17:GLN:HB3	29:P1:613:ARG:NH2	2.35	0.40
29:P2:231:LYS:HD3	29:P2:241:ASP:HB3	2.04	0.40
29:P2:342:PHE:CD2	29:P2:384:ARG:HA	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:P2:396:GLY:N	29:P2:419:GLY:HA2	2.37	0.40
29:P2:492:ARG:O	29:P2:493:LEU:HB2	2.21	0.40
29:P3:37:GLU:HA	29:P3:52:ILE:HD12	2.03	0.40
29:P3:213:MET:HE3	29:P3:217:ASP:HA	2.04	0.40
4:PA:260:VAL:HG23	4:PA:265:ILE:O	2.22	0.40
3:PB:11:GLN:HG3	39:PB:501:GTP:O5'	2.21	0.40
3:PB:91:VAL:HG11	3:PB:116:VAL:HG12	2.03	0.40
3:PB:134:GLN:OE1	3:PB:134:GLN:N	2.54	0.40
3:PB:321:MET:SD	3:PB:363:MET:HG3	2.61	0.40
3:PB:372:THR:HG21	3:PB:426:GLN:HG3	2.04	0.40
4:PC:132:LEU:HD13	4:PC:164:LYS:HE2	2.03	0.40
4:PC:286:LEU:HD23	4:PC:286:LEU:H	1.85	0.40
3:PD:383:GLU:HG2	3:PD:384:GLN:N	2.36	0.40
3:PF:173:PRO:HD3	3:PF:203:ASP:OD1	2.22	0.40
3:PH:6:HIS:HB3	3:PH:21:TRP:HZ2	1.86	0.40
3:PH:41:ASP:OD1	3:PH:41:ASP:N	2.53	0.40
3:PH:172:SER:OG	3:PH:174:LYS:HG2	2.21	0.40
4:PI:166:LYS:N	4:PI:199:ASP:OD2	2.54	0.40
4:PI:188:ILE:HD11	4:PI:395:PHE:CZ	2.56	0.40
4:PI:216:ASN:ND2	4:PI:275:VAL:HG23	2.36	0.40
4:PI:359:PRO:HA	4:PI:360:PRO:HD3	1.94	0.40
3:PL:205:GLU:HA	3:PL:208:TYR:CD2	2.56	0.40
4:PM:420:GLU:HG2	4:PM:421:ALA:N	2.36	0.40
27:Q:25:ARG:O	27:Q:29:ILE:N	2.46	0.40
27:Q:35:ARG:O	27:Q:35:ARG:HG3	2.21	0.40
30:Q2:1508:ASN:HA	30:Q2:1511:LEU:HD12	2.03	0.40
30:Q3:1421:GLN:CD	30:Q3:1506:SER:HB3	2.46	0.40
3:QB:134:GLN:HA	3:QB:165:ASN:HB3	2.04	0.40
4:QE:66:VAL:HG12	4:QE:68:VAL:HG13	2.04	0.40
4:QE:362:VAL:HA	4:QE:368:LEU:HD21	2.02	0.40
3:QF:20:PHE:CZ	3:QF:24:ILE:HD11	2.57	0.40
3:QF:306:ARG:HH22	3:QF:340:TYR:HD2	1.68	0.40
4:QG:139:HIS:CE1	4:QG:168:GLU:HB3	2.56	0.40
4:QG:192:HIS:CE1	4:QG:193:THR:HG23	2.57	0.40
3:QH:8:GLN:NE2	3:QH:17:GLY:HA3	2.36	0.40
3:QH:420:SER:O	3:QH:423:GLN:NE2	2.54	0.40
4:QI:301:GLN:N	4:QI:301:GLN:OE1	2.55	0.40
4:QI:316:CYS:O	4:QI:317:MET:HE2	2.22	0.40
4:QI:399:TYR:O	4:QI:402:ARG:HD3	2.22	0.40
3:QJ:258:VAL:HB	4:QK:407:TRP:HZ2	1.85	0.40
4:QK:36:MET:HE3	4:QK:37:PRO:CD	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:QK:252:LEU:HD12	4:QK:253:THR:N	2.37	0.40
4:QK:287:SER:N	4:QK:290:GLU:OE2	2.55	0.40
3:QL:19:LYS:HA	3:QL:22:GLU:HG3	2.03	0.40
3:QL:378:PHE:O	3:QL:381:ILE:HG22	2.22	0.40
4:QM:263:PRO:O	4:QM:264:ARG:HB2	2.22	0.40
31:R1:135:ALA:HA	31:R1:138:ASN:HB2	2.03	0.40
31:R1:272:GLN:HG2	31:R1:278:GLY:C	2.47	0.40
3:RB:51:TYR:CD1	3:RB:61:PRO:HA	2.57	0.40
3:RB:69:GLU:HG2	3:RB:69:GLU:O	2.21	0.40
3:RD:12:CYS:HA	39:RD:501:GTP:HN22	1.85	0.40
3:RD:155:ILE:HA	3:RD:158:GLU:HB2	2.03	0.40
3:RD:267:MET:HA	3:RD:268:PRO:HD3	1.86	0.40
3:RD:291:GLN:NE2	3:RD:295:ASP:OD1	2.54	0.40
4:RE:196:GLU:OE1	4:RE:196:GLU:N	2.45	0.40
4:RE:208:ALA:H	4:RE:304:LYS:NZ	2.10	0.40
4:RE:346:TRP:N	4:RE:346:TRP:CD1	2.88	0.40
3:RF:381:ILE:HD12	3:RF:384:GLN:HG3	2.02	0.40
4:RG:161:TYR:HB3	4:RG:164:LYS:NZ	2.37	0.40
3:RH:117:LEU:HD11	3:RH:154:LYS:HD2	2.03	0.40
3:RH:286:VAL:HG21	3:RH:325:GLU:HG3	2.03	0.40
4:RI:67:PHE:O	4:RI:93:ILE:N	2.55	0.40
3:RJ:47:ILE:HG13	3:RJ:51:TYR:HB2	2.03	0.40
3:RJ:152:ILE:HA	3:RJ:155:ILE:HG12	2.03	0.40
4:RK:316:CYS:N	4:RK:378:LEU:O	2.44	0.40
3:RL:139:LEU:N	3:RL:168:SER:OG	2.54	0.40
3:RL:174:LYS:HG2	3:RL:205:GLU:OE2	2.21	0.40
4:RM:89:PRO:HD2	4:SM:280:LYS:NZ	2.35	0.40
4:RM:308:ARG:NH1	4:RM:342:GLN:H	2.20	0.40
4:RM:311:LYS:NZ	4:RM:343:PHE:O	2.54	0.40
4:RM:312:TYR:HE1	4:RM:379:SER:HB2	1.86	0.40
3:SB:250:LEU:HD13	3:SB:253:LEU:HD12	2.03	0.40
3:SB:254:ALA:O	3:SB:258:VAL:HG12	2.21	0.40
3:SB:324:LYS:HG3	4:SC:221:ARG:NH1	2.37	0.40
3:SD:318:ARG:HA	3:SD:354:CYS:HB3	2.02	0.40
4:SE:216:ASN:ND2	4:SE:275:VAL:O	2.54	0.40
3:SF:3:GLU:OE2	3:SF:128:ASP:N	2.54	0.40
3:SF:12:CYS:HB3	39:SF:501:GTP:C5'	2.49	0.40
3:SF:271:ALA:HB1	3:SF:272:PRO:CD	2.52	0.40
4:SG:11:GLN:NE2	39:SG:501:GTP:O3A	2.54	0.40
3:SH:394:PHE:HA	3:SH:397:TRP:HZ3	1.87	0.40
4:SI:175:PRO:HA	4:SI:390:ARG:CZ	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:SI:196:GLU:OE1	4:SI:196:GLU:N	2.51	0.40
4:SI:259:LEU:HD13	4:SI:314:ALA:HB1	2.03	0.40
4:SI:363:VAL:HG13	4:SI:366:GLY:HA3	2.04	0.40
3:SJ:318:ARG:HD3	3:SJ:358:PRO:HG3	2.03	0.40
3:SL:9:ALA:HB3	3:SL:135:LEU:HD11	2.03	0.40
3:SL:99:ASN:ND2	3:SL:142:GLY:HA3	2.37	0.40
3:SL:271:ALA:HB1	3:SL:272:PRO:CD	2.51	0.40
3:SL:299:MET:HE2	3:SL:303:CYS:C	2.47	0.40
3:SL:305:PRO:HA	3:SL:373:ALA:HB2	2.04	0.40
4:SM:46:ASP:HA	4:SM:50:ASN:HB3	2.03	0.40
3:TB:148:GLY:O	3:TB:152:ILE:HG12	2.21	0.40
3:TB:267:MET:HA	3:TB:268:PRO:HD3	1.89	0.40
4:TC:171:ILE:HD12	4:TC:204:VAL:HG13	2.03	0.40
4:TC:224:TYR:CE1	39:TC:501:GTP:C6	3.09	0.40
4:TC:273:ALA:O	4:TC:275:VAL:N	2.50	0.40
4:TC:395:PHE:HD1	4:TC:398:MET:HE2	1.87	0.40
3:TD:247:ASN:ND2	39:TE:501:GTP:O1A	2.54	0.40
3:TD:292:GLN:HA	3:TD:295:ASP:OD2	2.20	0.40
3:TD:324:LYS:NZ	4:TE:222:PRO:O	2.23	0.40
3:TF:120:VAL:O	3:TF:124:ALA:N	2.47	0.40
3:TF:299:MET:HE2	3:TF:303:CYS:CA	2.52	0.40
4:TG:166:LYS:O	4:TG:199:ASP:HB2	2.22	0.40
4:TG:285:GLN:NE2	4:TG:286:LEU:O	2.54	0.40
3:TH:192:LEU:O	3:TH:196:THR:HG22	2.22	0.40
3:TJ:47:ILE:HG13	3:TJ:51:TYR:HB2	2.04	0.40
3:TJ:58:LYS:HE2	3:UH:281:TYR:HE1	1.85	0.40
3:TJ:251:ARG:HG2	4:TK:100:ALA:CB	2.51	0.40
3:TJ:273:LEU:N	3:TJ:292:GLN:HE22	2.06	0.40
4:TK:279:GLU:O	4:TK:283:HIS:HD2	2.02	0.40
4:TK:417:GLU:O	4:TK:420:GLU:HG2	2.22	0.40
3:TL:174:LYS:HG2	3:TL:205:GLU:OE2	2.20	0.40
4:TM:251:ASP:HB3	4:TM:254:GLU:OE1	2.22	0.40
4:TM:252:LEU:HA	4:TM:255:PHE:CD2	2.57	0.40
3:TN:32:PRO:C	3:TN:83:GLN:HE21	2.30	0.40
3:TN:239:CYS:SG	3:TN:248:ALA:HA	2.62	0.40
33:U:347:LYS:O	33:U:351:GLU:HG2	2.22	0.40
33:U:428:VAL:O	33:U:431:LYS:HG3	2.21	0.40
4:UA:321:GLY:HA3	4:UA:372:GLN:O	2.22	0.40
3:UB:51:TYR:CD1	3:UB:61:PRO:HA	2.56	0.40
3:UB:391:ARG:C	3:UB:392:LYS:HG3	2.47	0.40
4:UC:163:LYS:HA	4:UC:163:LYS:HD3	1.77	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UD:8:GLN:HG2	3:UD:65:LEU:HA	2.02	0.40
3:UD:188:SER:O	3:UD:192:LEU:HG	2.22	0.40
3:UD:249:ASP:O	3:UD:253:LEU:HG	2.22	0.40
4:UE:2:ARG:NE	4:UE:242:LEU:HG	2.36	0.40
3:UF:271:ALA:HB1	3:UF:272:PRO:CD	2.51	0.40
3:UF:282:ARG:HH22	3:UF:292:GLN:CD	2.28	0.40
3:UH:2:ARG:HB3	3:UH:131:GLN:CD	2.47	0.40
3:UH:318:ARG:HA	3:UH:354:CYS:HB3	2.03	0.40
4:UI:287:SER:N	4:UI:290:GLU:OE2	2.55	0.40
4:UI:311:LYS:HE3	4:UI:344:VAL:HG12	2.03	0.40
4:UK:2:ARG:HA	4:UK:133:GLN:NE2	2.37	0.40
4:UK:23:LEU:HD21	4:UK:229:ARG:HG2	2.04	0.40
3:UL:318:ARG:HA	3:UL:354:CYS:O	2.22	0.40
4:VA:272:TYR:CE1	4:VA:374:ALA:HB1	2.57	0.40
4:VA:295:CYS:HB2	4:VA:377:MET:HG2	2.04	0.40
4:VA:331:ALA:O	4:VA:334:THR:OG1	2.33	0.40
4:VC:168:GLU:HB2	4:VC:201:ALA:HA	2.02	0.40
4:VC:178:SER:OG	4:VC:180:ALA:O	2.38	0.40
4:VC:261:PRO:HA	3:VD:394:PHE:CE1	2.57	0.40
4:VE:175:PRO:HD2	4:VE:207:GLU:OE1	2.21	0.40
3:VF:173:PRO:HD2	3:VF:205:GLU:CD	2.47	0.40
4:VG:286:LEU:HD11	4:VG:372:GLN:H	1.87	0.40
4:VG:287:SER:N	4:VG:290:GLU:OE2	2.53	0.40
3:VH:69:GLU:CD	3:VH:71:GLY:H	2.29	0.40
3:VH:113:VAL:HA	3:VH:116:VAL:HG22	2.03	0.40
4:VI:104:ALA:HB1	4:VI:108:TYR:CD2	2.57	0.40
3:VJ:224:ASP:O	3:VJ:228:LEU:HG	2.21	0.40
3:VJ:271:ALA:HB1	3:VJ:272:PRO:HD2	2.03	0.40
4:VK:135:PHE:HD2	4:VK:166:LYS:HG3	1.86	0.40
3:VL:282:ARG:NH2	3:VL:292:GLN:OE1	2.31	0.40
4:WA:438:ASP:C	3:WB:391:ARG:HH12	2.29	0.40
3:WB:228:LEU:O	3:WB:232:THR:HG23	2.22	0.40
3:WB:389:PHE:HZ	3:WB:405:GLU:HB2	1.86	0.40
4:WC:192:HIS:CE1	4:WC:193:THR:HG23	2.56	0.40
4:WC:252:LEU:HD12	4:WC:253:THR:N	2.37	0.40
4:WC:265:ILE:HD12	4:WC:432:TYR:CE1	2.57	0.40
3:WD:199:THR:N	3:WD:264:HIS:O	2.55	0.40
3:WF:120:VAL:O	3:WF:124:ALA:N	2.36	0.40
4:WG:9:VAL:HG22	4:WG:146:GLY:HA2	2.03	0.40
3:WH:319:GLY:O	3:WH:355:ASP:HA	2.22	0.40
4:WI:103:TYR:HB2	4:WI:186:ASN:HB2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WI:225:THR:O	4:WI:229:ARG:HB2	2.22	0.40
4:WI:274:PRO:HG3	4:WI:374:ALA:HA	2.04	0.40
3:WL:145:SER:HB2	3:WL:188:SER:HB3	2.03	0.40
34:XB:92:GLN:HB3	34:XB:153:ARG:HG3	2.03	0.40
34:XB:133:GLN:N	34:XB:133:GLN:OE1	2.55	0.40
34:XD:173:SER:OG	34:XD:176:GLU:OE1	2.29	0.40
34:XG:76:LEU:HD13	34:XG:167:PHE:CD1	2.56	0.40
35:XI:125:LYS:HE2	35:XI:125:LYS:HB3	1.82	0.40
35:XI:138:LYS:HZ3	35:XI:176:GLN:HB3	1.86	0.40
35:XJ:133:LEU:O	35:XJ:136:PRO:HD2	2.21	0.40
35:XL:171:LEU:HD23	35:XL:174:TYR:CZ	2.56	0.40
35:XM:213:LEU:HD22	35:XM:228:ILE:HG21	2.03	0.40
37:YB:143:ILE:HG23	37:YB:147:PHE:CE2	2.56	0.40
37:YH:5:LYS:O	37:YH:9:ARG:HG3	2.21	0.40
37:YI:4:VAL:HG13	37:YI:5:LYS:N	2.36	0.40
37:YK:46:ILE:HD12	37:YK:46:ILE:H	1.87	0.40
37:YN:29:LEU:HB3	37:YN:33:ARG:HH12	1.87	0.40
37:YN:117:TYR:CD1	37:YN:118:PRO:HA	2.57	0.40
37:YO:46:ILE:H	37:YO:46:ILE:HD12	1.85	0.40
37:YO:68:MET:O	37:YO:72:ILE:HG13	2.21	0.40
38:a:74:LEU:HD12	38:a:77:LEU:HD23	2.03	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	313/491 (64%)	302 (96%)	11 (4%)	0	100 100
1	B	194/491 (40%)	188 (97%)	6 (3%)	0	100 100
2	A1	311/418 (74%)	297 (96%)	14 (4%)	0	100 100
2	A2	394/418 (94%)	366 (93%)	27 (7%)	1 (0%)	36 72

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	A3	394/418 (94%)	374 (95%)	20 (5%)	0	100	100
2	A4	184/418 (44%)	178 (97%)	6 (3%)	0	100	100
3	AB	425/427 (100%)	401 (94%)	22 (5%)	2 (0%)	24	63
3	AD	425/427 (100%)	400 (94%)	23 (5%)	2 (0%)	24	63
3	AF	425/427 (100%)	401 (94%)	22 (5%)	2 (0%)	24	63
3	AH	425/427 (100%)	400 (94%)	24 (6%)	1 (0%)	43	78
3	AJ	425/427 (100%)	391 (92%)	31 (7%)	3 (1%)	18	56
3	AL	425/427 (100%)	403 (95%)	20 (5%)	2 (0%)	24	63
3	BB	425/427 (100%)	396 (93%)	27 (6%)	2 (0%)	24	63
3	BD	425/427 (100%)	399 (94%)	25 (6%)	1 (0%)	43	78
3	BF	425/427 (100%)	398 (94%)	25 (6%)	2 (0%)	24	63
3	BH	425/427 (100%)	391 (92%)	33 (8%)	1 (0%)	43	78
3	BJ	425/427 (100%)	396 (93%)	27 (6%)	2 (0%)	24	63
3	BL	425/427 (100%)	396 (93%)	28 (7%)	1 (0%)	43	78
3	CB	425/427 (100%)	399 (94%)	24 (6%)	2 (0%)	24	63
3	CD	425/427 (100%)	403 (95%)	21 (5%)	1 (0%)	43	78
3	CF	425/427 (100%)	398 (94%)	25 (6%)	2 (0%)	24	63
3	CH	425/427 (100%)	397 (93%)	26 (6%)	2 (0%)	24	63
3	CJ	425/427 (100%)	398 (94%)	25 (6%)	2 (0%)	24	63
3	CL	425/427 (100%)	396 (93%)	27 (6%)	2 (0%)	24	63
3	DB	425/427 (100%)	400 (94%)	23 (5%)	2 (0%)	24	63
3	DD	425/427 (100%)	395 (93%)	28 (7%)	2 (0%)	24	63
3	DF	425/427 (100%)	396 (93%)	27 (6%)	2 (0%)	24	63
3	DH	425/427 (100%)	401 (94%)	22 (5%)	2 (0%)	24	63
3	DJ	425/427 (100%)	391 (92%)	32 (8%)	2 (0%)	24	63
3	DL	425/427 (100%)	403 (95%)	20 (5%)	2 (0%)	24	63
3	EB	425/427 (100%)	397 (93%)	26 (6%)	2 (0%)	24	63
3	ED	425/427 (100%)	397 (93%)	27 (6%)	1 (0%)	43	78
3	EF	425/427 (100%)	397 (93%)	27 (6%)	1 (0%)	43	78
3	EH	425/427 (100%)	401 (94%)	22 (5%)	2 (0%)	24	63
3	EJ	425/427 (100%)	400 (94%)	24 (6%)	1 (0%)	43	78

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	EL	425/427 (100%)	395 (93%)	29 (7%)	1 (0%)	43	78
3	FB	425/427 (100%)	403 (95%)	20 (5%)	2 (0%)	24	63
3	FD	425/427 (100%)	397 (93%)	27 (6%)	1 (0%)	43	78
3	FF	425/427 (100%)	395 (93%)	29 (7%)	1 (0%)	43	78
3	FH	425/427 (100%)	401 (94%)	23 (5%)	1 (0%)	43	78
3	FJ	425/427 (100%)	397 (93%)	27 (6%)	1 (0%)	43	78
3	FL	425/427 (100%)	397 (93%)	27 (6%)	1 (0%)	43	78
3	GB	425/427 (100%)	390 (92%)	33 (8%)	2 (0%)	24	63
3	GD	425/427 (100%)	404 (95%)	20 (5%)	1 (0%)	43	78
3	GF	425/427 (100%)	398 (94%)	26 (6%)	1 (0%)	43	78
3	GH	425/427 (100%)	402 (95%)	22 (5%)	1 (0%)	43	78
3	GJ	425/427 (100%)	403 (95%)	21 (5%)	1 (0%)	43	78
3	GL	425/427 (100%)	393 (92%)	30 (7%)	2 (0%)	24	63
3	HB	425/427 (100%)	399 (94%)	24 (6%)	2 (0%)	24	63
3	HD	425/427 (100%)	400 (94%)	23 (5%)	2 (0%)	24	63
3	HF	425/427 (100%)	397 (93%)	26 (6%)	2 (0%)	24	63
3	HH	425/427 (100%)	399 (94%)	24 (6%)	2 (0%)	24	63
3	HJ	425/427 (100%)	401 (94%)	23 (5%)	1 (0%)	43	78
3	HL	425/427 (100%)	398 (94%)	25 (6%)	2 (0%)	24	63
3	IB	425/427 (100%)	400 (94%)	23 (5%)	2 (0%)	24	63
3	ID	425/427 (100%)	401 (94%)	22 (5%)	2 (0%)	24	63
3	IF	425/427 (100%)	401 (94%)	23 (5%)	1 (0%)	43	78
3	IH	425/427 (100%)	397 (93%)	26 (6%)	2 (0%)	24	63
3	IJ	425/427 (100%)	395 (93%)	29 (7%)	1 (0%)	43	78
3	IL	425/427 (100%)	407 (96%)	16 (4%)	2 (0%)	24	63
3	JB	425/427 (100%)	401 (94%)	22 (5%)	2 (0%)	24	63
3	JD	425/427 (100%)	405 (95%)	18 (4%)	2 (0%)	24	63
3	JF	425/427 (100%)	400 (94%)	23 (5%)	2 (0%)	24	63
3	JH	425/427 (100%)	399 (94%)	24 (6%)	2 (0%)	24	63
3	JJ	425/427 (100%)	402 (95%)	21 (5%)	2 (0%)	24	63
3	JL	425/427 (100%)	400 (94%)	23 (5%)	2 (0%)	24	63

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	KB	425/427 (100%)	405 (95%)	18 (4%)	2 (0%)	24	63
3	KD	425/427 (100%)	399 (94%)	24 (6%)	2 (0%)	24	63
3	KF	425/427 (100%)	398 (94%)	26 (6%)	1 (0%)	43	78
3	KH	425/427 (100%)	402 (95%)	21 (5%)	2 (0%)	24	63
3	KJ	425/427 (100%)	399 (94%)	25 (6%)	1 (0%)	43	78
3	KL	425/427 (100%)	398 (94%)	25 (6%)	2 (0%)	24	63
3	LB	425/427 (100%)	401 (94%)	23 (5%)	1 (0%)	43	78
3	LD	425/427 (100%)	396 (93%)	27 (6%)	2 (0%)	24	63
3	LF	425/427 (100%)	396 (93%)	27 (6%)	2 (0%)	24	63
3	LH	425/427 (100%)	397 (93%)	26 (6%)	2 (0%)	24	63
3	LJ	425/427 (100%)	394 (93%)	29 (7%)	2 (0%)	24	63
3	LL	425/427 (100%)	399 (94%)	24 (6%)	2 (0%)	24	63
3	MB	425/427 (100%)	394 (93%)	29 (7%)	2 (0%)	24	63
3	MD	425/427 (100%)	394 (93%)	29 (7%)	2 (0%)	24	63
3	MF	425/427 (100%)	402 (95%)	21 (5%)	2 (0%)	24	63
3	MH	425/427 (100%)	398 (94%)	25 (6%)	2 (0%)	24	63
3	MJ	425/427 (100%)	394 (93%)	30 (7%)	1 (0%)	43	78
3	ML	425/427 (100%)	402 (95%)	21 (5%)	2 (0%)	24	63
3	NB	425/427 (100%)	404 (95%)	19 (4%)	2 (0%)	24	63
3	ND	425/427 (100%)	403 (95%)	20 (5%)	2 (0%)	24	63
3	NF	425/427 (100%)	403 (95%)	20 (5%)	2 (0%)	24	63
3	NH	425/427 (100%)	399 (94%)	24 (6%)	2 (0%)	24	63
3	NJ	425/427 (100%)	401 (94%)	22 (5%)	2 (0%)	24	63
3	NL	425/427 (100%)	401 (94%)	22 (5%)	2 (0%)	24	63
3	OB	425/427 (100%)	401 (94%)	22 (5%)	2 (0%)	24	63
3	OD	425/427 (100%)	401 (94%)	22 (5%)	2 (0%)	24	63
3	OF	425/427 (100%)	403 (95%)	20 (5%)	2 (0%)	24	63
3	OH	425/427 (100%)	401 (94%)	22 (5%)	2 (0%)	24	63
3	OJ	425/427 (100%)	403 (95%)	20 (5%)	2 (0%)	24	63
3	OL	425/427 (100%)	398 (94%)	25 (6%)	2 (0%)	24	63
3	PB	425/427 (100%)	405 (95%)	18 (4%)	2 (0%)	24	63

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	PD	425/427 (100%)	402 (95%)	21 (5%)	2 (0%)	24	63
3	PF	425/427 (100%)	399 (94%)	24 (6%)	2 (0%)	24	63
3	PH	425/427 (100%)	400 (94%)	23 (5%)	2 (0%)	24	63
3	PJ	425/427 (100%)	400 (94%)	23 (5%)	2 (0%)	24	63
3	PL	425/427 (100%)	402 (95%)	21 (5%)	2 (0%)	24	63
3	QB	425/427 (100%)	399 (94%)	24 (6%)	2 (0%)	24	63
3	QD	425/427 (100%)	402 (95%)	21 (5%)	2 (0%)	24	63
3	QF	425/427 (100%)	401 (94%)	22 (5%)	2 (0%)	24	63
3	QH	425/427 (100%)	398 (94%)	25 (6%)	2 (0%)	24	63
3	QJ	425/427 (100%)	400 (94%)	23 (5%)	2 (0%)	24	63
3	QL	425/427 (100%)	402 (95%)	21 (5%)	2 (0%)	24	63
3	RB	425/427 (100%)	404 (95%)	19 (4%)	2 (0%)	24	63
3	RD	425/427 (100%)	400 (94%)	23 (5%)	2 (0%)	24	63
3	RF	425/427 (100%)	402 (95%)	21 (5%)	2 (0%)	24	63
3	RH	425/427 (100%)	402 (95%)	21 (5%)	2 (0%)	24	63
3	RJ	425/427 (100%)	399 (94%)	25 (6%)	1 (0%)	43	78
3	RL	425/427 (100%)	398 (94%)	25 (6%)	2 (0%)	24	63
3	SB	425/427 (100%)	404 (95%)	19 (4%)	2 (0%)	24	63
3	SD	425/427 (100%)	398 (94%)	25 (6%)	2 (0%)	24	63
3	SF	425/427 (100%)	404 (95%)	19 (4%)	2 (0%)	24	63
3	SH	425/427 (100%)	402 (95%)	21 (5%)	2 (0%)	24	63
3	SJ	425/427 (100%)	406 (96%)	17 (4%)	2 (0%)	24	63
3	SL	425/427 (100%)	403 (95%)	20 (5%)	2 (0%)	24	63
3	TB	425/427 (100%)	400 (94%)	23 (5%)	2 (0%)	24	63
3	TD	425/427 (100%)	402 (95%)	21 (5%)	2 (0%)	24	63
3	TF	425/427 (100%)	399 (94%)	24 (6%)	2 (0%)	24	63
3	TH	425/427 (100%)	402 (95%)	21 (5%)	2 (0%)	24	63
3	TJ	425/427 (100%)	401 (94%)	23 (5%)	1 (0%)	43	78
3	TL	425/427 (100%)	402 (95%)	21 (5%)	2 (0%)	24	63
3	TN	425/427 (100%)	402 (95%)	21 (5%)	2 (0%)	24	63
3	UB	425/427 (100%)	406 (96%)	17 (4%)	2 (0%)	24	63

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	UD	425/427 (100%)	403 (95%)	20 (5%)	2 (0%)	24	63
3	UF	425/427 (100%)	393 (92%)	30 (7%)	2 (0%)	24	63
3	UH	425/427 (100%)	403 (95%)	20 (5%)	2 (0%)	24	63
3	UJ	425/427 (100%)	396 (93%)	27 (6%)	2 (0%)	24	63
3	UL	425/427 (100%)	401 (94%)	23 (5%)	1 (0%)	43	78
3	VB	425/427 (100%)	402 (95%)	21 (5%)	2 (0%)	24	63
3	VD	425/427 (100%)	402 (95%)	21 (5%)	2 (0%)	24	63
3	VF	425/427 (100%)	399 (94%)	24 (6%)	2 (0%)	24	63
3	VH	425/427 (100%)	403 (95%)	20 (5%)	2 (0%)	24	63
3	VJ	425/427 (100%)	402 (95%)	21 (5%)	2 (0%)	24	63
3	VL	425/427 (100%)	402 (95%)	21 (5%)	2 (0%)	24	63
3	WB	425/427 (100%)	401 (94%)	22 (5%)	2 (0%)	24	63
3	WD	425/427 (100%)	401 (94%)	22 (5%)	2 (0%)	24	63
3	WF	425/427 (100%)	403 (95%)	20 (5%)	2 (0%)	24	63
3	WH	425/427 (100%)	401 (94%)	22 (5%)	2 (0%)	24	63
3	WJ	425/427 (100%)	399 (94%)	24 (6%)	2 (0%)	24	63
3	WL	425/427 (100%)	396 (93%)	28 (7%)	1 (0%)	43	78
4	AC	436/438 (100%)	411 (94%)	25 (6%)	0	100	100
4	AE	436/438 (100%)	412 (94%)	23 (5%)	1 (0%)	43	78
4	AG	436/438 (100%)	408 (94%)	27 (6%)	1 (0%)	43	78
4	AI	436/438 (100%)	409 (94%)	26 (6%)	1 (0%)	43	78
4	AK	436/438 (100%)	409 (94%)	26 (6%)	1 (0%)	43	78
4	AM	436/438 (100%)	410 (94%)	26 (6%)	0	100	100
4	BC	436/438 (100%)	408 (94%)	27 (6%)	1 (0%)	43	78
4	BE	436/438 (100%)	402 (92%)	33 (8%)	1 (0%)	43	78
4	BG	436/438 (100%)	405 (93%)	30 (7%)	1 (0%)	43	78
4	BI	436/438 (100%)	403 (92%)	32 (7%)	1 (0%)	43	78
4	BK	436/438 (100%)	404 (93%)	31 (7%)	1 (0%)	43	78
4	BM	436/438 (100%)	414 (95%)	21 (5%)	1 (0%)	43	78
4	CC	436/438 (100%)	412 (94%)	24 (6%)	0	100	100
4	CE	436/438 (100%)	404 (93%)	31 (7%)	1 (0%)	43	78

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	CG	436/438 (100%)	399 (92%)	37 (8%)	0	100	100
4	CI	436/438 (100%)	402 (92%)	33 (8%)	1 (0%)	43	78
4	CK	436/438 (100%)	408 (94%)	27 (6%)	1 (0%)	43	78
4	CM	436/438 (100%)	410 (94%)	25 (6%)	1 (0%)	43	78
4	DA	436/438 (100%)	406 (93%)	29 (7%)	1 (0%)	43	78
4	DC	436/438 (100%)	407 (93%)	28 (6%)	1 (0%)	43	78
4	DE	436/438 (100%)	409 (94%)	26 (6%)	1 (0%)	43	78
4	DG	436/438 (100%)	403 (92%)	32 (7%)	1 (0%)	43	78
4	DI	436/438 (100%)	404 (93%)	31 (7%)	1 (0%)	43	78
4	DK	436/438 (100%)	404 (93%)	30 (7%)	2 (0%)	24	63
4	EA	436/438 (100%)	406 (93%)	29 (7%)	1 (0%)	43	78
4	EC	436/438 (100%)	405 (93%)	30 (7%)	1 (0%)	43	78
4	EE	436/438 (100%)	404 (93%)	31 (7%)	1 (0%)	43	78
4	EG	436/438 (100%)	410 (94%)	25 (6%)	1 (0%)	43	78
4	EI	436/438 (100%)	406 (93%)	29 (7%)	1 (0%)	43	78
4	EK	436/438 (100%)	403 (92%)	32 (7%)	1 (0%)	43	78
4	FA	436/438 (100%)	414 (95%)	21 (5%)	1 (0%)	43	78
4	FC	436/438 (100%)	408 (94%)	26 (6%)	2 (0%)	24	63
4	FE	436/438 (100%)	406 (93%)	29 (7%)	1 (0%)	43	78
4	FG	436/438 (100%)	411 (94%)	25 (6%)	0	100	100
4	FI	436/438 (100%)	403 (92%)	32 (7%)	1 (0%)	43	78
4	FK	436/438 (100%)	410 (94%)	25 (6%)	1 (0%)	43	78
4	GA	436/438 (100%)	414 (95%)	21 (5%)	1 (0%)	43	78
4	GC	436/438 (100%)	411 (94%)	24 (6%)	1 (0%)	43	78
4	GE	436/438 (100%)	410 (94%)	26 (6%)	0	100	100
4	GG	436/438 (100%)	407 (93%)	28 (6%)	1 (0%)	43	78
4	GI	436/438 (100%)	405 (93%)	31 (7%)	0	100	100
4	GK	436/438 (100%)	405 (93%)	30 (7%)	1 (0%)	43	78
4	HA	436/438 (100%)	409 (94%)	27 (6%)	0	100	100
4	HC	436/438 (100%)	403 (92%)	32 (7%)	1 (0%)	43	78
4	HE	436/438 (100%)	402 (92%)	33 (8%)	1 (0%)	43	78

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	HG	436/438 (100%)	412 (94%)	23 (5%)	1 (0%)	43	78
4	HI	436/438 (100%)	407 (93%)	27 (6%)	2 (0%)	24	63
4	HK	436/438 (100%)	406 (93%)	29 (7%)	1 (0%)	43	78
4	IA	436/438 (100%)	405 (93%)	30 (7%)	1 (0%)	43	78
4	IC	436/438 (100%)	407 (93%)	29 (7%)	0	100	100
4	IE	436/438 (100%)	410 (94%)	25 (6%)	1 (0%)	43	78
4	IG	436/438 (100%)	411 (94%)	24 (6%)	1 (0%)	43	78
4	II	436/438 (100%)	404 (93%)	31 (7%)	1 (0%)	43	78
4	IK	436/438 (100%)	401 (92%)	34 (8%)	1 (0%)	43	78
4	IM	436/438 (100%)	408 (94%)	28 (6%)	0	100	100
4	JA	436/438 (100%)	408 (94%)	27 (6%)	1 (0%)	43	78
4	JC	436/438 (100%)	408 (94%)	27 (6%)	1 (0%)	43	78
4	JE	436/438 (100%)	409 (94%)	26 (6%)	1 (0%)	43	78
4	JG	436/438 (100%)	409 (94%)	26 (6%)	1 (0%)	43	78
4	JI	436/438 (100%)	410 (94%)	26 (6%)	0	100	100
4	JK	436/438 (100%)	412 (94%)	23 (5%)	1 (0%)	43	78
4	KA	436/438 (100%)	407 (93%)	29 (7%)	0	100	100
4	KC	436/438 (100%)	401 (92%)	34 (8%)	1 (0%)	43	78
4	KE	436/438 (100%)	407 (93%)	29 (7%)	0	100	100
4	KG	436/438 (100%)	408 (94%)	28 (6%)	0	100	100
4	KI	436/438 (100%)	403 (92%)	33 (8%)	0	100	100
4	KK	436/438 (100%)	407 (93%)	29 (7%)	0	100	100
4	LA	436/438 (100%)	409 (94%)	26 (6%)	1 (0%)	43	78
4	LC	436/438 (100%)	407 (93%)	28 (6%)	1 (0%)	43	78
4	LE	436/438 (100%)	408 (94%)	27 (6%)	1 (0%)	43	78
4	LG	436/438 (100%)	404 (93%)	31 (7%)	1 (0%)	43	78
4	LI	436/438 (100%)	405 (93%)	30 (7%)	1 (0%)	43	78
4	LK	436/438 (100%)	409 (94%)	26 (6%)	1 (0%)	43	78
4	MC	436/438 (100%)	413 (95%)	22 (5%)	1 (0%)	43	78
4	ME	436/438 (100%)	404 (93%)	31 (7%)	1 (0%)	43	78
4	MG	436/438 (100%)	403 (92%)	32 (7%)	1 (0%)	43	78

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	MI	436/438 (100%)	406 (93%)	29 (7%)	1 (0%)	43	78
4	MK	436/438 (100%)	408 (94%)	28 (6%)	0	100	100
4	MM	436/438 (100%)	399 (92%)	36 (8%)	1 (0%)	43	78
4	NA	436/438 (100%)	411 (94%)	24 (6%)	1 (0%)	43	78
4	NC	436/438 (100%)	413 (95%)	22 (5%)	1 (0%)	43	78
4	NE	436/438 (100%)	405 (93%)	30 (7%)	1 (0%)	43	78
4	NG	436/438 (100%)	411 (94%)	24 (6%)	1 (0%)	43	78
4	NI	436/438 (100%)	406 (93%)	29 (7%)	1 (0%)	43	78
4	NK	436/438 (100%)	411 (94%)	24 (6%)	1 (0%)	43	78
4	OA	436/438 (100%)	412 (94%)	23 (5%)	1 (0%)	43	78
4	OC	436/438 (100%)	409 (94%)	26 (6%)	1 (0%)	43	78
4	OE	436/438 (100%)	409 (94%)	25 (6%)	2 (0%)	24	63
4	OG	436/438 (100%)	412 (94%)	23 (5%)	1 (0%)	43	78
4	OI	436/438 (100%)	405 (93%)	30 (7%)	1 (0%)	43	78
4	OK	436/438 (100%)	409 (94%)	26 (6%)	1 (0%)	43	78
4	PA	436/438 (100%)	413 (95%)	22 (5%)	1 (0%)	43	78
4	PC	436/438 (100%)	412 (94%)	23 (5%)	1 (0%)	43	78
4	PE	436/438 (100%)	414 (95%)	22 (5%)	0	100	100
4	PG	436/438 (100%)	410 (94%)	25 (6%)	1 (0%)	43	78
4	PI	436/438 (100%)	412 (94%)	23 (5%)	1 (0%)	43	78
4	PK	436/438 (100%)	410 (94%)	25 (6%)	1 (0%)	43	78
4	PM	436/438 (100%)	407 (93%)	28 (6%)	1 (0%)	43	78
4	QC	436/438 (100%)	409 (94%)	26 (6%)	1 (0%)	43	78
4	QE	436/438 (100%)	404 (93%)	31 (7%)	1 (0%)	43	78
4	QG	436/438 (100%)	410 (94%)	25 (6%)	1 (0%)	43	78
4	QI	436/438 (100%)	416 (95%)	19 (4%)	1 (0%)	43	78
4	QK	436/438 (100%)	411 (94%)	24 (6%)	1 (0%)	43	78
4	QM	436/438 (100%)	410 (94%)	26 (6%)	0	100	100
4	RC	436/438 (100%)	411 (94%)	24 (6%)	1 (0%)	43	78
4	RE	436/438 (100%)	413 (95%)	22 (5%)	1 (0%)	43	78
4	RG	436/438 (100%)	412 (94%)	24 (6%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	RI	436/438 (100%)	413 (95%)	22 (5%)	1 (0%)	43	78
4	RK	436/438 (100%)	411 (94%)	24 (6%)	1 (0%)	43	78
4	RM	436/438 (100%)	411 (94%)	25 (6%)	0	100	100
4	SC	436/438 (100%)	415 (95%)	20 (5%)	1 (0%)	43	78
4	SE	436/438 (100%)	414 (95%)	21 (5%)	1 (0%)	43	78
4	SG	436/438 (100%)	411 (94%)	24 (6%)	1 (0%)	43	78
4	SI	436/438 (100%)	410 (94%)	26 (6%)	0	100	100
4	SK	436/438 (100%)	408 (94%)	27 (6%)	1 (0%)	43	78
4	SM	436/438 (100%)	412 (94%)	23 (5%)	1 (0%)	43	78
4	TC	436/438 (100%)	415 (95%)	20 (5%)	1 (0%)	43	78
4	TE	436/438 (100%)	410 (94%)	25 (6%)	1 (0%)	43	78
4	TG	436/438 (100%)	413 (95%)	22 (5%)	1 (0%)	43	78
4	TI	436/438 (100%)	408 (94%)	28 (6%)	0	100	100
4	TK	436/438 (100%)	409 (94%)	26 (6%)	1 (0%)	43	78
4	TM	436/438 (100%)	409 (94%)	27 (6%)	0	100	100
4	UA	436/438 (100%)	409 (94%)	26 (6%)	1 (0%)	43	78
4	UC	436/438 (100%)	408 (94%)	27 (6%)	1 (0%)	43	78
4	UE	436/438 (100%)	410 (94%)	26 (6%)	0	100	100
4	UG	436/438 (100%)	410 (94%)	25 (6%)	1 (0%)	43	78
4	UI	436/438 (100%)	407 (93%)	28 (6%)	1 (0%)	43	78
4	UK	436/438 (100%)	409 (94%)	26 (6%)	1 (0%)	43	78
4	VA	436/438 (100%)	416 (95%)	20 (5%)	0	100	100
4	VC	436/438 (100%)	406 (93%)	29 (7%)	1 (0%)	43	78
4	VE	436/438 (100%)	407 (93%)	28 (6%)	1 (0%)	43	78
4	VG	436/438 (100%)	404 (93%)	31 (7%)	1 (0%)	43	78
4	VI	436/438 (100%)	407 (93%)	28 (6%)	1 (0%)	43	78
4	VK	436/438 (100%)	413 (95%)	22 (5%)	1 (0%)	43	78
4	WA	436/438 (100%)	415 (95%)	20 (5%)	1 (0%)	43	78
4	WC	436/438 (100%)	411 (94%)	24 (6%)	1 (0%)	43	78
4	WE	436/438 (100%)	405 (93%)	29 (7%)	2 (0%)	24	63
4	WG	436/438 (100%)	410 (94%)	25 (6%)	1 (0%)	43	78

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	WI	436/438 (100%)	404 (93%)	31 (7%)	1 (0%)	43	78
4	WK	436/438 (100%)	402 (92%)	33 (8%)	1 (0%)	43	78
5	B1	234/430 (54%)	216 (92%)	18 (8%)	0	100	100
5	B2	414/430 (96%)	398 (96%)	15 (4%)	1 (0%)	43	78
5	B3	414/430 (96%)	389 (94%)	24 (6%)	1 (0%)	43	78
5	B4	308/430 (72%)	289 (94%)	18 (6%)	1 (0%)	36	72
5	B5	46/430 (11%)	43 (94%)	3 (6%)	0	100	100
5	B6	359/430 (84%)	344 (96%)	13 (4%)	2 (1%)	21	59
5	B7	403/430 (94%)	383 (95%)	18 (4%)	2 (0%)	24	63
5	B8	396/430 (92%)	378 (96%)	16 (4%)	2 (0%)	24	63
5	B9	113/430 (26%)	109 (96%)	4 (4%)	0	100	100
6	C	370/395 (94%)	313 (85%)	56 (15%)	1 (0%)	36	72
6	D	370/395 (94%)	328 (89%)	42 (11%)	0	100	100
7	C1	94/490 (19%)	88 (94%)	6 (6%)	0	100	100
7	C2	386/490 (79%)	371 (96%)	15 (4%)	0	100	100
7	C3	386/490 (79%)	368 (95%)	18 (5%)	0	100	100
7	C4	359/490 (73%)	333 (93%)	26 (7%)	0	100	100
7	C5	61/490 (12%)	59 (97%)	2 (3%)	0	100	100
7	C6	196/490 (40%)	187 (95%)	9 (5%)	0	100	100
7	C7	392/490 (80%)	367 (94%)	25 (6%)	0	100	100
7	C8	392/490 (80%)	375 (96%)	17 (4%)	0	100	100
7	C9	294/490 (60%)	279 (95%)	14 (5%)	1 (0%)	36	72
7	Ca	215/490 (44%)	212 (99%)	2 (1%)	1 (0%)	24	63
7	Cb	386/490 (79%)	372 (96%)	14 (4%)	0	100	100
7	Cc	386/490 (79%)	364 (94%)	22 (6%)	0	100	100
7	Cd	262/490 (54%)	257 (98%)	4 (2%)	1 (0%)	30	67
8	D1	54/447 (12%)	53 (98%)	1 (2%)	0	100	100
8	D2	361/447 (81%)	350 (97%)	11 (3%)	0	100	100
8	D3	423/447 (95%)	410 (97%)	13 (3%)	0	100	100
8	D4	423/447 (95%)	402 (95%)	21 (5%)	0	100	100
8	D5	128/447 (29%)	125 (98%)	3 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
8	D6	73/447 (16%)	70 (96%)	2 (3%)	1 (1%)	9 40
8	D7	367/447 (82%)	353 (96%)	13 (4%)	1 (0%)	36 72
8	D8	396/447 (89%)	383 (97%)	12 (3%)	1 (0%)	36 72
8	D9	390/447 (87%)	379 (97%)	10 (3%)	1 (0%)	36 72
8	Da	56/447 (12%)	55 (98%)	1 (2%)	0	100 100
9	E	259/853 (30%)	230 (89%)	26 (10%)	3 (1%)	10 44
9	F	147/853 (17%)	123 (84%)	24 (16%)	0	100 100
10	E1	185/206 (90%)	137 (74%)	48 (26%)	0	100 100
10	E2	185/206 (90%)	143 (77%)	42 (23%)	0	100 100
10	E3	185/206 (90%)	136 (74%)	49 (26%)	0	100 100
10	E4	55/206 (27%)	46 (84%)	9 (16%)	0	100 100
11	F1	280/557 (50%)	271 (97%)	9 (3%)	0	100 100
11	F2	391/557 (70%)	378 (97%)	13 (3%)	0	100 100
11	F3	391/557 (70%)	369 (94%)	22 (6%)	0	100 100
11	F4	208/557 (37%)	203 (98%)	5 (2%)	0	100 100
11	F5	252/557 (45%)	244 (97%)	8 (3%)	0	100 100
11	F6	387/557 (70%)	366 (95%)	20 (5%)	1 (0%)	36 72
11	F7	387/557 (70%)	368 (95%)	18 (5%)	1 (0%)	36 72
11	F8	225/557 (40%)	217 (96%)	8 (4%)	0	100 100
11	F9	169/557 (30%)	160 (95%)	9 (5%)	0	100 100
11	Fa	387/557 (70%)	371 (96%)	16 (4%)	0	100 100
11	Fb	387/557 (70%)	367 (95%)	18 (5%)	2 (0%)	24 63
11	Fc	311/557 (56%)	294 (94%)	15 (5%)	2 (1%)	21 59
11	Fd	21/557 (4%)	20 (95%)	1 (5%)	0	100 100
11	Fe	231/557 (42%)	230 (100%)	0	1 (0%)	30 67
11	Ff	391/557 (70%)	379 (97%)	12 (3%)	0	100 100
11	Fg	307/557 (55%)	293 (95%)	14 (5%)	0	100 100
11	Fh	179/557 (32%)	164 (92%)	12 (7%)	3 (2%)	7 36
11	Fi	266/557 (48%)	261 (98%)	5 (2%)	0	100 100
11	Fj	271/557 (49%)	265 (98%)	6 (2%)	0	100 100
11	Fk	326/557 (58%)	316 (97%)	8 (2%)	2 (1%)	21 59

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
11	Fl	326/557 (58%)	315 (97%)	9 (3%)	2 (1%)	21 59
11	Fm	321/557 (58%)	309 (96%)	11 (3%)	1 (0%)	36 72
12	G	446/514 (87%)	441 (99%)	5 (1%)	0	100 100
12	H	45/514 (9%)	45 (100%)	0	0	100 100
13	G1	506/648 (78%)	443 (88%)	61 (12%)	2 (0%)	30 67
13	G2	491/648 (76%)	438 (89%)	50 (10%)	3 (1%)	21 59
13	G3	507/648 (78%)	439 (87%)	65 (13%)	3 (1%)	21 59
14	G4	746/750 (100%)	640 (86%)	100 (13%)	6 (1%)	16 54
14	G5	745/750 (99%)	640 (86%)	99 (13%)	6 (1%)	16 54
14	G6	745/750 (99%)	636 (85%)	101 (14%)	8 (1%)	11 46
15	H1	133/319 (42%)	97 (73%)	33 (25%)	3 (2%)	5 28
15	H2	129/319 (40%)	100 (78%)	28 (22%)	1 (1%)	16 54
15	H3	133/319 (42%)	97 (73%)	34 (26%)	2 (2%)	8 40
15	H4	132/319 (41%)	102 (77%)	28 (21%)	2 (2%)	8 40
15	H5	133/319 (42%)	95 (71%)	35 (26%)	3 (2%)	5 28
15	H6	130/319 (41%)	93 (72%)	34 (26%)	3 (2%)	5 28
16	I	90/228 (40%)	80 (89%)	10 (11%)	0	100 100
17	I1	36/200 (18%)	34 (94%)	2 (6%)	0	100 100
17	I2	36/200 (18%)	35 (97%)	1 (3%)	0	100 100
17	I3	36/200 (18%)	35 (97%)	1 (3%)	0	100 100
18	J	156/196 (80%)	122 (78%)	33 (21%)	1 (1%)	21 59
19	J1	169/189 (89%)	131 (78%)	35 (21%)	3 (2%)	6 34
19	J2	169/189 (89%)	135 (80%)	32 (19%)	2 (1%)	10 44
19	J3	169/189 (89%)	127 (75%)	39 (23%)	3 (2%)	6 34
20	K	268/303 (88%)	256 (96%)	12 (4%)	0	100 100
20	L	268/303 (88%)	253 (94%)	15 (6%)	0	100 100
21	K1	101/499 (20%)	92 (91%)	7 (7%)	2 (2%)	6 31
21	K2	417/499 (84%)	366 (88%)	39 (9%)	12 (3%)	3 23
21	K3	424/499 (85%)	364 (86%)	43 (10%)	17 (4%)	2 18
21	K4	388/499 (78%)	340 (88%)	36 (9%)	12 (3%)	3 22
21	K5	46/499 (9%)	36 (78%)	6 (13%)	4 (9%)	0 9

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
22	L1	206/255 (81%)	166 (81%)	36 (18%)	4 (2%)	6 32
22	L2	234/255 (92%)	181 (77%)	50 (21%)	3 (1%)	9 42
22	L3	234/255 (92%)	187 (80%)	43 (18%)	4 (2%)	7 36
22	L4	73/255 (29%)	55 (75%)	18 (25%)	0	100 100
23	M	113/167 (68%)	102 (90%)	11 (10%)	0	100 100
24	M1	60/141 (43%)	48 (80%)	12 (20%)	0	100 100
24	M2	60/141 (43%)	48 (80%)	12 (20%)	0	100 100
24	M3	60/141 (43%)	52 (87%)	8 (13%)	0	100 100
25	N	72/122 (59%)	68 (94%)	4 (6%)	0	100 100
26	N1	64/168 (38%)	48 (75%)	16 (25%)	0	100 100
26	N2	64/168 (38%)	46 (72%)	18 (28%)	0	100 100
26	N3	64/168 (38%)	51 (80%)	12 (19%)	1 (2%)	7 38
26	N4	64/168 (38%)	47 (73%)	15 (23%)	2 (3%)	3 22
27	O	47/377 (12%)	45 (96%)	2 (4%)	0	100 100
27	P	313/377 (83%)	304 (97%)	9 (3%)	0	100 100
27	Q	181/377 (48%)	167 (92%)	13 (7%)	1 (1%)	21 59
27	R	224/377 (59%)	219 (98%)	5 (2%)	0	100 100
28	O1	101/189 (53%)	77 (76%)	22 (22%)	2 (2%)	6 31
28	O2	101/189 (53%)	72 (71%)	28 (28%)	1 (1%)	12 48
28	O3	101/189 (53%)	74 (73%)	26 (26%)	1 (1%)	12 48
29	P1	606/620 (98%)	593 (98%)	13 (2%)	0	100 100
29	P2	606/620 (98%)	590 (97%)	16 (3%)	0	100 100
29	P3	606/620 (98%)	591 (98%)	15 (2%)	0	100 100
30	Q1	176/1516 (12%)	145 (82%)	29 (16%)	2 (1%)	11 46
30	Q2	176/1516 (12%)	141 (80%)	31 (18%)	4 (2%)	5 28
30	Q3	176/1516 (12%)	144 (82%)	30 (17%)	2 (1%)	11 46
31	R1	70/283 (25%)	62 (89%)	7 (10%)	1 (1%)	9 40
31	R2	70/283 (25%)	61 (87%)	8 (11%)	1 (1%)	9 40
31	R3	70/283 (25%)	63 (90%)	6 (9%)	1 (1%)	9 40
32	S	69/470 (15%)	60 (87%)	9 (13%)	0	100 100
32	T	107/470 (23%)	97 (91%)	10 (9%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
33	U	359/551 (65%)	354 (99%)	5 (1%)	0	100	100
33	V	61/551 (11%)	61 (100%)	0	0	100	100
33	W	321/551 (58%)	303 (94%)	16 (5%)	2 (1%)	21	59
33	X	174/551 (32%)	167 (96%)	7 (4%)	0	100	100
34	XA	183/193 (95%)	174 (95%)	9 (5%)	0	100	100
34	XB	183/193 (95%)	174 (95%)	9 (5%)	0	100	100
34	XC	183/193 (95%)	172 (94%)	11 (6%)	0	100	100
34	XD	183/193 (95%)	176 (96%)	7 (4%)	0	100	100
34	XE	183/193 (95%)	171 (93%)	12 (7%)	0	100	100
34	XF	183/193 (95%)	172 (94%)	11 (6%)	0	100	100
34	XG	183/193 (95%)	174 (95%)	9 (5%)	0	100	100
35	XH	174/241 (72%)	157 (90%)	17 (10%)	0	100	100
35	XI	174/241 (72%)	160 (92%)	14 (8%)	0	100	100
35	XJ	174/241 (72%)	158 (91%)	16 (9%)	0	100	100
35	XK	174/241 (72%)	152 (87%)	22 (13%)	0	100	100
35	XL	174/241 (72%)	158 (91%)	16 (9%)	0	100	100
35	XM	174/241 (72%)	161 (92%)	13 (8%)	0	100	100
36	Y	212/547 (39%)	207 (98%)	5 (2%)	0	100	100
36	Z	281/547 (51%)	271 (96%)	10 (4%)	0	100	100
37	YA	166/168 (99%)	148 (89%)	15 (9%)	3 (2%)	6	34
37	YB	166/168 (99%)	146 (88%)	19 (11%)	1 (1%)	21	59
37	YC	166/168 (99%)	145 (87%)	19 (11%)	2 (1%)	10	44
37	YD	166/168 (99%)	147 (89%)	17 (10%)	2 (1%)	10	44
37	YE	166/168 (99%)	148 (89%)	16 (10%)	2 (1%)	10	44
37	YF	166/168 (99%)	145 (87%)	18 (11%)	3 (2%)	6	34
37	YG	166/168 (99%)	145 (87%)	19 (11%)	2 (1%)	10	44
37	YH	166/168 (99%)	149 (90%)	15 (9%)	2 (1%)	10	44
37	YI	166/168 (99%)	148 (89%)	16 (10%)	2 (1%)	10	44
37	YJ	166/168 (99%)	145 (87%)	19 (11%)	2 (1%)	10	44
37	YK	166/168 (99%)	146 (88%)	18 (11%)	2 (1%)	10	44
37	YL	166/168 (99%)	147 (89%)	16 (10%)	3 (2%)	6	34

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
37	YM	166/168 (99%)	145 (87%)	18 (11%)	3 (2%)	6	34
37	YN	166/168 (99%)	147 (89%)	17 (10%)	2 (1%)	10	44
37	YO	166/168 (99%)	145 (87%)	19 (11%)	2 (1%)	10	44
37	YP	166/168 (99%)	149 (90%)	15 (9%)	2 (1%)	10	44
37	YQ	166/168 (99%)	147 (89%)	16 (10%)	3 (2%)	6	34
37	YR	166/168 (99%)	145 (87%)	19 (11%)	2 (1%)	10	44
37	YS	166/168 (99%)	148 (89%)	16 (10%)	2 (1%)	10	44
37	YT	166/168 (99%)	143 (86%)	21 (13%)	2 (1%)	10	44
37	YU	166/168 (99%)	142 (86%)	22 (13%)	2 (1%)	10	44
37	YV	166/168 (99%)	146 (88%)	18 (11%)	2 (1%)	10	44
37	YW	166/168 (99%)	143 (86%)	21 (13%)	2 (1%)	10	44
38	a	89/101 (88%)	81 (91%)	8 (9%)	0	100	100
All	All	159844/188175 (85%)	149076 (93%)	10183 (6%)	585 (0%)	31	67

All (585) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	A2	209	PRO
5	B2	125	ASP
5	B3	125	ASP
5	B6	125	ASP
5	B6	400	PRO
5	B7	125	ASP
5	B7	399	VAL
5	B8	125	ASP
5	B8	400	PRO
6	C	372	ALA
8	D6	365	ASN
8	D9	147	VAL
4	DK	11	GLN
9	E	425	SER
9	E	467	LEU
9	E	618	ASP
11	F7	400	THR
4	FC	11	GLN
11	Fb	197	ASN
11	Fe	209	ASP
11	Fh	207	VAL

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Mol	Chain	Res	Type
11	Fh	395	MET
13	G1	226	PRO
13	G2	225	THR
13	G2	226	PRO
13	G3	225	THR
13	G3	226	PRO
14	G4	722	VAL
14	G4	727	PRO
14	G5	722	VAL
14	G5	727	PRO
14	G6	722	VAL
14	G6	727	PRO
15	H5	258	VAL
15	H6	218	ILE
4	HC	11	GLN
19	J1	33	SER
19	J2	33	SER
19	J3	33	SER
21	K1	403	ARG
21	K2	108	ARG
21	K2	109	LEU
21	K2	188	CYS
21	K2	189	GLU
21	K2	245	VAL
21	K2	249	ASN
21	K3	109	LEU
21	K3	188	CYS
21	K3	189	GLU
21	K3	245	VAL
21	K4	109	LEU
21	K4	188	CYS
21	K4	189	GLU
21	K4	245	VAL
21	K5	109	LEU
22	L1	137	GLU
22	L1	244	ILE
22	L2	137	GLU
22	L2	248	LYS
22	L3	89	PRO
22	L3	137	GLU
30	Q1	1354	LYS
30	Q1	1505	ILE

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Mol	Chain	Res	Type
30	Q2	1354	LYS
30	Q3	1354	LYS
4	WE	11	GLN
37	YA	60	SER
37	YA	86	LEU
37	YA	118	PRO
37	YB	86	LEU
37	YC	60	SER
37	YC	86	LEU
37	YD	60	SER
37	YD	86	LEU
37	YE	60	SER
37	YE	86	LEU
37	YF	60	SER
37	YF	86	LEU
37	YF	118	PRO
37	YG	60	SER
37	YG	86	LEU
37	YH	60	SER
37	YH	86	LEU
37	YI	60	SER
37	YI	86	LEU
37	YJ	60	SER
37	YJ	86	LEU
37	YK	60	SER
37	YK	86	LEU
37	YL	60	SER
37	YL	86	LEU
37	YL	118	PRO
37	YM	60	SER
37	YM	86	LEU
37	YN	60	SER
37	YN	86	LEU
37	YO	60	SER
37	YO	86	LEU
37	YP	60	SER
37	YP	86	LEU
37	YQ	60	SER
37	YQ	86	LEU
37	YQ	118	PRO
37	YR	60	SER
37	YR	86	LEU

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Mol	Chain	Res	Type
37	YS	60	SER
37	YS	86	LEU
37	YT	60	SER
37	YT	86	LEU
37	YU	60	SER
37	YU	86	LEU
37	YV	60	SER
37	YV	86	LEU
37	YW	60	SER
37	YW	86	LEU
3	AB	177	ASP
3	AD	177	ASP
3	AF	177	ASP
3	AH	177	ASP
3	AJ	177	ASP
3	AL	177	ASP
3	BB	177	ASP
3	BD	177	ASP
4	BE	264	ARG
3	BF	177	ASP
3	BJ	177	ASP
3	BL	177	ASP
4	BM	264	ARG
3	CB	177	ASP
3	CD	177	ASP
3	CH	177	ASP
3	CJ	177	ASP
4	CM	264	ARG
8	D8	365	ASN
3	DB	218	THR
3	DD	177	ASP
3	DF	177	ASP
3	DJ	177	ASP
3	DL	177	ASP
3	EF	177	ASP
3	EH	177	ASP
3	FD	177	ASP
4	FE	264	ARG
3	FF	177	ASP
3	FH	177	ASP
3	FJ	177	ASP
3	FL	177	ASP

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Mol	Chain	Res	Type
11	Fl	415	ARG
13	G1	224	VAL
13	G2	224	VAL
13	G3	224	VAL
3	GD	177	ASP
3	GH	177	ASP
3	GL	177	ASP
15	H5	256	HIS
15	H6	213	ILE
3	HB	177	ASP
3	HD	177	ASP
4	HE	264	ARG
3	HF	177	ASP
4	HI	11	GLN
3	HJ	177	ASP
3	HL	177	ASP
3	IB	177	ASP
3	IF	177	ASP
3	IH	177	ASP
3	IL	177	ASP
3	JD	177	ASP
3	JF	177	ASP
3	JH	177	ASP
3	JL	177	ASP
21	K1	405	VAL
21	K2	405	VAL
21	K2	472	VAL
21	K3	108	ARG
21	K3	243	GLN
21	K3	249	ASN
21	K3	392	LYS
21	K3	393	LEU
21	K3	394	ASN
21	K3	472	VAL
21	K3	491	ARG
21	K4	108	ARG
21	K4	243	GLN
21	K4	249	ASN
21	K4	472	VAL
21	K5	108	ARG
3	KD	177	ASP
3	KF	177	ASP

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Mol	Chain	Res	Type
22	L1	79	ASN
22	L3	79	ASN
3	LB	177	ASP
3	LD	177	ASP
3	LH	177	ASP
3	LJ	177	ASP
3	LL	218	THR
3	MD	177	ASP
3	MH	177	ASP
3	MJ	177	ASP
3	ML	177	ASP
26	N3	97	GLU
3	NB	177	ASP
3	ND	177	ASP
3	NJ	177	ASP
3	NL	177	ASP
28	O1	61	TRP
28	O2	61	TRP
28	O3	61	TRP
3	OB	177	ASP
3	OD	177	ASP
3	OH	177	ASP
3	OJ	177	ASP
4	PA	264	ARG
3	PB	177	ASP
3	PD	177	ASP
3	PF	177	ASP
3	PH	177	ASP
3	PL	177	ASP
30	Q2	1505	ILE
3	QB	177	ASP
3	QH	177	ASP
3	QJ	177	ASP
3	RB	177	ASP
3	RD	177	ASP
3	RF	177	ASP
3	RH	177	ASP
3	RJ	177	ASP
4	RK	264	ARG
3	RL	177	ASP
3	SD	177	ASP
3	SF	177	ASP

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Mol	Chain	Res	Type
3	SJ	177	ASP
3	SL	177	ASP
3	TD	177	ASP
3	TJ	177	ASP
3	TL	177	ASP
3	TN	177	ASP
3	UB	177	ASP
3	UD	177	ASP
3	UF	177	ASP
3	UH	177	ASP
3	UJ	177	ASP
3	UL	177	ASP
3	VB	177	ASP
3	VD	177	ASP
3	VF	177	ASP
3	VH	177	ASP
3	VJ	177	ASP
3	VL	177	ASP
3	WB	177	ASP
3	WD	177	ASP
3	WF	177	ASP
3	WH	177	ASP
3	WL	177	ASP
3	AF	218	THR
3	BF	218	THR
3	BH	177	ASP
3	CB	218	THR
3	CF	177	ASP
3	CH	218	THR
3	CL	177	ASP
3	CL	218	THR
7	Ca	408	ASN
8	D7	368	LEU
3	DB	177	ASP
3	DD	218	THR
3	DH	177	ASP
3	DH	218	THR
4	DI	264	ARG
3	DJ	218	THR
3	EB	177	ASP
3	EB	218	THR
3	ED	177	ASP

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Mol	Chain	Res	Type
3	EH	218	THR
3	EJ	177	ASP
3	EL	177	ASP
3	FB	177	ASP
11	Fb	411	VAL
11	Fc	283	VAL
11	Fm	207	VAL
14	G4	30	ASN
14	G5	30	ASN
14	G6	30	ASN
3	GB	177	ASP
3	GB	218	THR
3	GF	177	ASP
3	GJ	177	ASP
3	HB	218	THR
3	HH	177	ASP
3	ID	177	ASP
3	ID	218	THR
4	IG	264	ARG
3	IH	218	THR
3	IJ	177	ASP
18	J	127	LEU
19	J3	64	ASP
3	JB	177	ASP
3	JD	218	THR
3	JJ	177	ASP
3	JL	218	THR
21	K2	267	ILE
21	K2	491	ARG
21	K3	265	VAL
21	K3	267	ILE
21	K3	405	VAL
21	K4	491	ARG
21	K5	44	VAL
21	K5	45	THR
3	KB	177	ASP
3	KB	218	THR
3	KH	177	ASP
3	KH	218	THR
3	KJ	177	ASP
3	KL	177	ASP
3	KL	218	THR

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Mol	Chain	Res	Type
4	LA	264	ARG
3	LD	218	THR
4	LE	264	ARG
3	LF	177	ASP
3	LF	218	THR
4	LI	264	ARG
3	LL	177	ASP
3	MB	177	ASP
3	MB	218	THR
3	MD	218	THR
3	MF	177	ASP
3	ML	218	THR
3	ND	218	THR
3	NF	177	ASP
3	NF	218	THR
4	NG	264	ARG
3	NH	177	ASP
3	NH	218	THR
3	NL	218	THR
28	O1	9	GLN
3	OB	218	THR
3	OD	218	THR
4	OE	264	ARG
3	OF	177	ASP
4	OI	264	ARG
3	OJ	218	THR
4	OK	264	ARG
3	OL	177	ASP
3	PB	218	THR
3	PD	218	THR
3	PF	218	THR
3	PH	218	THR
3	PJ	177	ASP
4	PK	264	ARG
3	PL	218	THR
30	Q2	1418	MET
30	Q2	1423	ALA
3	QB	218	THR
3	QD	177	ASP
3	QF	177	ASP
3	QF	218	THR
3	QH	218	THR

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Mol	Chain	Res	Type
3	QL	177	ASP
3	QL	218	THR
3	RB	218	THR
3	RD	218	THR
3	RF	218	THR
3	RL	218	THR
3	SB	177	ASP
3	SB	218	THR
3	SF	218	THR
3	SJ	218	THR
4	SK	264	ARG
3	SL	218	THR
3	TB	177	ASP
3	TB	218	THR
3	TF	177	ASP
3	TF	218	THR
3	TH	177	ASP
3	TH	218	THR
3	TL	218	THR
3	TN	218	THR
3	UD	218	THR
3	UF	218	THR
3	UH	218	THR
3	UJ	218	THR
3	VL	218	THR
3	WJ	177	ASP
4	AE	264	ARG
4	AG	264	ARG
3	AJ	99	ASN
5	B4	125	ASP
3	BB	218	THR
4	BC	264	ARG
4	BG	264	ARG
4	BI	264	ARG
3	CF	218	THR
4	CI	264	ARG
3	CJ	218	THR
4	CK	264	ARG
4	DA	264	ARG
4	DC	264	ARG
4	DE	264	ARG
4	DG	264	ARG

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Mol	Chain	Res	Type
3	DL	218	THR
4	EA	264	ARG
4	EE	264	ARG
4	EG	264	ARG
4	EK	264	ARG
3	FB	218	THR
4	FC	264	ARG
11	Fc	476	PHE
11	Fk	207	VAL
11	Fk	415	ARG
11	Fl	207	VAL
14	G4	386	ILE
14	G4	631	ILE
14	G5	386	ILE
14	G5	631	ILE
14	G6	386	ILE
4	GA	264	ARG
4	GC	264	ARG
4	GG	264	ARG
4	GK	264	ARG
15	H1	211	ASN
15	H1	258	VAL
15	H5	218	ILE
3	HD	218	THR
4	HG	264	ARG
4	HI	264	ARG
4	HK	264	ARG
4	IA	264	ARG
3	IB	218	THR
4	IE	264	ARG
4	II	264	ARG
3	IL	218	THR
19	J1	64	ASP
3	JB	218	THR
4	JE	264	ARG
3	JF	218	THR
4	JK	264	ARG
21	K2	265	VAL
4	KC	264	ARG
22	L1	117	VAL
22	L2	117	VAL
22	L3	117	VAL

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Mol	Chain	Res	Type
4	LC	264	ARG
4	LG	264	ARG
3	LJ	218	THR
4	LK	264	ARG
4	MC	264	ARG
4	ME	264	ARG
4	MG	264	ARG
3	MH	218	THR
4	MI	264	ARG
4	MM	264	ARG
26	N4	97	GLU
4	NA	264	ARG
3	NB	218	THR
4	NC	264	ARG
4	NE	264	ARG
4	NI	264	ARG
3	NJ	218	THR
4	NK	264	ARG
4	OA	264	ARG
4	OC	264	ARG
4	OE	15	GLN
3	OF	218	THR
4	OG	264	ARG
3	OH	218	THR
3	OL	218	THR
4	PC	264	ARG
4	PG	264	ARG
4	PI	264	ARG
3	PJ	218	THR
30	Q3	1505	ILE
4	QC	264	ARG
3	QD	218	THR
4	QE	264	ARG
4	QG	264	ARG
4	QI	264	ARG
3	QJ	218	THR
4	QK	264	ARG
4	RC	264	ARG
4	RE	264	ARG
4	RI	264	ARG
4	SC	264	ARG
3	SD	218	THR

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Mol	Chain	Res	Type
4	SE	264	ARG
4	SG	264	ARG
3	SH	177	ASP
4	SM	264	ARG
4	TC	264	ARG
3	TD	218	THR
4	TE	264	ARG
4	TG	264	ARG
4	TK	264	ARG
4	UA	264	ARG
4	UC	264	ARG
4	UG	264	ARG
4	UI	264	ARG
4	UK	264	ARG
3	VB	218	THR
4	VC	264	ARG
4	VE	264	ARG
4	VG	264	ARG
3	VH	218	THR
4	VI	264	ARG
4	VK	264	ARG
4	WA	264	ARG
3	WB	218	THR
4	WC	264	ARG
4	WE	264	ARG
4	WG	264	ARG
3	WJ	218	THR
4	WK	264	ARG
3	AB	218	THR
4	AI	264	ARG
3	AJ	218	THR
4	AK	264	ARG
3	AL	218	THR
4	BK	264	ARG
4	CE	264	ARG
4	DK	264	ARG
4	EC	264	ARG
4	EI	264	ARG
11	F6	92	PRO
4	FA	264	ARG
4	FI	264	ARG
4	FK	264	ARG

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Mol	Chain	Res	Type
11	Fh	394	THR
14	G6	631	ILE
15	H3	218	ILE
15	H4	211	ASN
15	H4	230	TRP
3	HH	218	THR
4	IK	264	ARG
19	J2	64	ASP
4	JA	264	ARG
4	JC	264	ARG
4	JG	264	ARG
3	JJ	218	THR
21	K2	487	PRO
21	K3	487	PRO
21	K4	265	VAL
21	K4	267	ILE
4	PM	264	ARG
27	Q	112	LEU
3	RH	218	THR
3	SH	218	THR
3	UB	218	THR
3	VD	218	THR
3	VF	218	THR
33	W	379	ALA
3	WD	218	THR
3	WH	218	THR
4	WI	264	ARG
3	AD	218	THR
3	BJ	218	THR
7	Cd	289	ARG
3	DF	218	THR
14	G5	29	CYS
14	G6	29	CYS
3	GL	218	THR
15	H1	218	ILE
15	H2	230	TRP
15	H3	258	VAL
15	H6	230	TRP
3	HF	218	THR
3	HL	218	THR
19	J1	62	PHE
19	J3	111	ARG

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Mol	Chain	Res	Type
3	JH	218	THR
21	K3	403	ARG
21	K4	487	PRO
3	KD	218	THR
3	LH	218	THR
3	MF	218	THR
3	VJ	218	THR
3	WF	218	THR
37	YM	119	HIS
26	N4	163	GLY
31	R3	282	HIS
33	W	369	ILE
31	R1	282	HIS
31	R2	282	HIS
7	C9	407	PRO
14	G4	710	PRO
14	G6	369	GLY
14	G6	710	PRO

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	294/450 (65%)	294 (100%)	0	100	100
1	B	179/450 (40%)	179 (100%)	0	100	100
2	A1	288/380 (76%)	288 (100%)	0	100	100
2	A2	365/380 (96%)	365 (100%)	0	100	100
2	A3	365/380 (96%)	365 (100%)	0	100	100
2	A4	179/380 (47%)	179 (100%)	0	100	100
3	AB	367/367 (100%)	367 (100%)	0	100	100
3	AD	367/367 (100%)	367 (100%)	0	100	100
3	AF	367/367 (100%)	367 (100%)	0	100	100
3	AH	367/367 (100%)	367 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	AJ	367/367 (100%)	367 (100%)	0	100	100
3	AL	367/367 (100%)	367 (100%)	0	100	100
3	BB	367/367 (100%)	367 (100%)	0	100	100
3	BD	367/367 (100%)	367 (100%)	0	100	100
3	BF	367/367 (100%)	367 (100%)	0	100	100
3	BH	367/367 (100%)	367 (100%)	0	100	100
3	BJ	367/367 (100%)	367 (100%)	0	100	100
3	BL	367/367 (100%)	367 (100%)	0	100	100
3	CB	367/367 (100%)	367 (100%)	0	100	100
3	CD	367/367 (100%)	367 (100%)	0	100	100
3	CF	367/367 (100%)	367 (100%)	0	100	100
3	CH	367/367 (100%)	367 (100%)	0	100	100
3	CJ	367/367 (100%)	367 (100%)	0	100	100
3	CL	367/367 (100%)	367 (100%)	0	100	100
3	DB	367/367 (100%)	367 (100%)	0	100	100
3	DD	367/367 (100%)	367 (100%)	0	100	100
3	DF	367/367 (100%)	367 (100%)	0	100	100
3	DH	367/367 (100%)	367 (100%)	0	100	100
3	DJ	367/367 (100%)	367 (100%)	0	100	100
3	DL	367/367 (100%)	367 (100%)	0	100	100
3	EB	367/367 (100%)	367 (100%)	0	100	100
3	ED	367/367 (100%)	367 (100%)	0	100	100
3	EF	367/367 (100%)	367 (100%)	0	100	100
3	EH	367/367 (100%)	367 (100%)	0	100	100
3	EJ	367/367 (100%)	367 (100%)	0	100	100
3	EL	367/367 (100%)	367 (100%)	0	100	100
3	FB	367/367 (100%)	366 (100%)	1 (0%)	86	86
3	FD	367/367 (100%)	367 (100%)	0	100	100
3	FF	367/367 (100%)	367 (100%)	0	100	100
3	FH	367/367 (100%)	367 (100%)	0	100	100
3	FJ	367/367 (100%)	367 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	FL	367/367 (100%)	367 (100%)	0	100	100
3	GB	367/367 (100%)	367 (100%)	0	100	100
3	GD	367/367 (100%)	367 (100%)	0	100	100
3	GF	367/367 (100%)	367 (100%)	0	100	100
3	GH	367/367 (100%)	367 (100%)	0	100	100
3	GJ	367/367 (100%)	367 (100%)	0	100	100
3	GL	367/367 (100%)	367 (100%)	0	100	100
3	HB	367/367 (100%)	367 (100%)	0	100	100
3	HD	367/367 (100%)	367 (100%)	0	100	100
3	HF	367/367 (100%)	367 (100%)	0	100	100
3	HH	367/367 (100%)	367 (100%)	0	100	100
3	HJ	367/367 (100%)	367 (100%)	0	100	100
3	HL	367/367 (100%)	367 (100%)	0	100	100
3	IB	367/367 (100%)	367 (100%)	0	100	100
3	ID	367/367 (100%)	367 (100%)	0	100	100
3	IF	367/367 (100%)	367 (100%)	0	100	100
3	IH	367/367 (100%)	367 (100%)	0	100	100
3	IJ	367/367 (100%)	367 (100%)	0	100	100
3	IL	367/367 (100%)	367 (100%)	0	100	100
3	JB	367/367 (100%)	367 (100%)	0	100	100
3	JD	367/367 (100%)	367 (100%)	0	100	100
3	JF	367/367 (100%)	367 (100%)	0	100	100
3	JH	367/367 (100%)	367 (100%)	0	100	100
3	JJ	367/367 (100%)	367 (100%)	0	100	100
3	JL	367/367 (100%)	367 (100%)	0	100	100
3	KB	367/367 (100%)	367 (100%)	0	100	100
3	KD	367/367 (100%)	367 (100%)	0	100	100
3	KF	367/367 (100%)	367 (100%)	0	100	100
3	KH	367/367 (100%)	367 (100%)	0	100	100
3	KJ	367/367 (100%)	367 (100%)	0	100	100
3	KL	367/367 (100%)	367 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	LB	367/367 (100%)	367 (100%)	0	100	100
3	LD	367/367 (100%)	367 (100%)	0	100	100
3	LF	367/367 (100%)	367 (100%)	0	100	100
3	LH	367/367 (100%)	367 (100%)	0	100	100
3	LJ	367/367 (100%)	367 (100%)	0	100	100
3	LL	367/367 (100%)	367 (100%)	0	100	100
3	MB	367/367 (100%)	367 (100%)	0	100	100
3	MD	367/367 (100%)	367 (100%)	0	100	100
3	MF	367/367 (100%)	367 (100%)	0	100	100
3	MH	367/367 (100%)	367 (100%)	0	100	100
3	MJ	367/367 (100%)	367 (100%)	0	100	100
3	ML	367/367 (100%)	367 (100%)	0	100	100
3	NB	367/367 (100%)	367 (100%)	0	100	100
3	ND	367/367 (100%)	367 (100%)	0	100	100
3	NF	367/367 (100%)	367 (100%)	0	100	100
3	NH	367/367 (100%)	367 (100%)	0	100	100
3	NJ	367/367 (100%)	367 (100%)	0	100	100
3	NL	367/367 (100%)	367 (100%)	0	100	100
3	OB	367/367 (100%)	367 (100%)	0	100	100
3	OD	367/367 (100%)	367 (100%)	0	100	100
3	OF	367/367 (100%)	367 (100%)	0	100	100
3	OH	367/367 (100%)	367 (100%)	0	100	100
3	OJ	367/367 (100%)	367 (100%)	0	100	100
3	OL	367/367 (100%)	367 (100%)	0	100	100
3	PB	367/367 (100%)	367 (100%)	0	100	100
3	PD	367/367 (100%)	367 (100%)	0	100	100
3	PF	367/367 (100%)	367 (100%)	0	100	100
3	PH	367/367 (100%)	367 (100%)	0	100	100
3	PJ	367/367 (100%)	367 (100%)	0	100	100
3	PL	367/367 (100%)	367 (100%)	0	100	100
3	QB	367/367 (100%)	367 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	QD	367/367 (100%)	367 (100%)	0	100	100
3	QF	367/367 (100%)	367 (100%)	0	100	100
3	QH	367/367 (100%)	367 (100%)	0	100	100
3	QJ	367/367 (100%)	367 (100%)	0	100	100
3	QL	367/367 (100%)	367 (100%)	0	100	100
3	RB	367/367 (100%)	367 (100%)	0	100	100
3	RD	367/367 (100%)	367 (100%)	0	100	100
3	RF	367/367 (100%)	367 (100%)	0	100	100
3	RH	367/367 (100%)	367 (100%)	0	100	100
3	RJ	367/367 (100%)	367 (100%)	0	100	100
3	RL	367/367 (100%)	367 (100%)	0	100	100
3	SB	367/367 (100%)	367 (100%)	0	100	100
3	SD	367/367 (100%)	367 (100%)	0	100	100
3	SF	367/367 (100%)	367 (100%)	0	100	100
3	SH	367/367 (100%)	367 (100%)	0	100	100
3	SJ	367/367 (100%)	367 (100%)	0	100	100
3	SL	367/367 (100%)	367 (100%)	0	100	100
3	TB	367/367 (100%)	367 (100%)	0	100	100
3	TD	367/367 (100%)	367 (100%)	0	100	100
3	TF	367/367 (100%)	367 (100%)	0	100	100
3	TH	367/367 (100%)	367 (100%)	0	100	100
3	TJ	367/367 (100%)	367 (100%)	0	100	100
3	TL	367/367 (100%)	367 (100%)	0	100	100
3	TN	367/367 (100%)	367 (100%)	0	100	100
3	UB	367/367 (100%)	367 (100%)	0	100	100
3	UD	367/367 (100%)	367 (100%)	0	100	100
3	UF	367/367 (100%)	367 (100%)	0	100	100
3	UH	367/367 (100%)	367 (100%)	0	100	100
3	UJ	367/367 (100%)	367 (100%)	0	100	100
3	UL	367/367 (100%)	367 (100%)	0	100	100
3	VB	367/367 (100%)	367 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	VD	367/367 (100%)	367 (100%)	0	100	100
3	VF	367/367 (100%)	367 (100%)	0	100	100
3	VH	367/367 (100%)	367 (100%)	0	100	100
3	VJ	367/367 (100%)	367 (100%)	0	100	100
3	VL	367/367 (100%)	367 (100%)	0	100	100
3	WB	367/367 (100%)	367 (100%)	0	100	100
3	WD	367/367 (100%)	367 (100%)	0	100	100
3	WF	367/367 (100%)	367 (100%)	0	100	100
3	WH	367/367 (100%)	367 (100%)	0	100	100
3	WJ	367/367 (100%)	367 (100%)	0	100	100
3	WL	367/367 (100%)	367 (100%)	0	100	100
4	AC	366/366 (100%)	366 (100%)	0	100	100
4	AE	366/366 (100%)	366 (100%)	0	100	100
4	AG	366/366 (100%)	366 (100%)	0	100	100
4	AI	366/366 (100%)	366 (100%)	0	100	100
4	AK	366/366 (100%)	366 (100%)	0	100	100
4	AM	366/366 (100%)	366 (100%)	0	100	100
4	BC	366/366 (100%)	366 (100%)	0	100	100
4	BE	366/366 (100%)	366 (100%)	0	100	100
4	BG	366/366 (100%)	366 (100%)	0	100	100
4	BI	366/366 (100%)	366 (100%)	0	100	100
4	BK	366/366 (100%)	366 (100%)	0	100	100
4	BM	366/366 (100%)	366 (100%)	0	100	100
4	CC	366/366 (100%)	366 (100%)	0	100	100
4	CE	366/366 (100%)	366 (100%)	0	100	100
4	CG	366/366 (100%)	366 (100%)	0	100	100
4	CI	366/366 (100%)	366 (100%)	0	100	100
4	CK	366/366 (100%)	366 (100%)	0	100	100
4	CM	366/366 (100%)	366 (100%)	0	100	100
4	DA	366/366 (100%)	366 (100%)	0	100	100
4	DC	366/366 (100%)	366 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	DE	366/366 (100%)	366 (100%)	0	100	100
4	DG	366/366 (100%)	366 (100%)	0	100	100
4	DI	366/366 (100%)	366 (100%)	0	100	100
4	DK	366/366 (100%)	366 (100%)	0	100	100
4	EA	366/366 (100%)	366 (100%)	0	100	100
4	EC	366/366 (100%)	366 (100%)	0	100	100
4	EE	366/366 (100%)	366 (100%)	0	100	100
4	EG	366/366 (100%)	366 (100%)	0	100	100
4	EI	366/366 (100%)	366 (100%)	0	100	100
4	EK	366/366 (100%)	366 (100%)	0	100	100
4	FA	366/366 (100%)	366 (100%)	0	100	100
4	FC	366/366 (100%)	366 (100%)	0	100	100
4	FE	366/366 (100%)	366 (100%)	0	100	100
4	FG	366/366 (100%)	366 (100%)	0	100	100
4	FI	366/366 (100%)	366 (100%)	0	100	100
4	FK	366/366 (100%)	366 (100%)	0	100	100
4	GA	366/366 (100%)	366 (100%)	0	100	100
4	GC	366/366 (100%)	366 (100%)	0	100	100
4	GE	366/366 (100%)	366 (100%)	0	100	100
4	GG	366/366 (100%)	366 (100%)	0	100	100
4	GI	366/366 (100%)	366 (100%)	0	100	100
4	GK	366/366 (100%)	366 (100%)	0	100	100
4	HA	366/366 (100%)	366 (100%)	0	100	100
4	HC	366/366 (100%)	366 (100%)	0	100	100
4	HE	366/366 (100%)	366 (100%)	0	100	100
4	HG	366/366 (100%)	366 (100%)	0	100	100
4	HI	366/366 (100%)	366 (100%)	0	100	100
4	HK	366/366 (100%)	366 (100%)	0	100	100
4	IA	366/366 (100%)	366 (100%)	0	100	100
4	IC	366/366 (100%)	366 (100%)	0	100	100
4	IE	366/366 (100%)	366 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	IG	366/366 (100%)	366 (100%)	0	100	100
4	II	366/366 (100%)	366 (100%)	0	100	100
4	IK	366/366 (100%)	366 (100%)	0	100	100
4	IM	366/366 (100%)	366 (100%)	0	100	100
4	JA	366/366 (100%)	366 (100%)	0	100	100
4	JC	366/366 (100%)	366 (100%)	0	100	100
4	JE	366/366 (100%)	366 (100%)	0	100	100
4	JG	366/366 (100%)	366 (100%)	0	100	100
4	JI	366/366 (100%)	366 (100%)	0	100	100
4	JK	366/366 (100%)	366 (100%)	0	100	100
4	KA	366/366 (100%)	366 (100%)	0	100	100
4	KC	366/366 (100%)	366 (100%)	0	100	100
4	KE	366/366 (100%)	366 (100%)	0	100	100
4	KG	366/366 (100%)	366 (100%)	0	100	100
4	KI	366/366 (100%)	366 (100%)	0	100	100
4	KK	366/366 (100%)	366 (100%)	0	100	100
4	LA	366/366 (100%)	366 (100%)	0	100	100
4	LC	366/366 (100%)	366 (100%)	0	100	100
4	LE	366/366 (100%)	366 (100%)	0	100	100
4	LG	366/366 (100%)	366 (100%)	0	100	100
4	LI	366/366 (100%)	366 (100%)	0	100	100
4	LK	366/366 (100%)	366 (100%)	0	100	100
4	MC	366/366 (100%)	366 (100%)	0	100	100
4	ME	366/366 (100%)	366 (100%)	0	100	100
4	MG	366/366 (100%)	366 (100%)	0	100	100
4	MI	366/366 (100%)	366 (100%)	0	100	100
4	MK	366/366 (100%)	366 (100%)	0	100	100
4	MM	366/366 (100%)	366 (100%)	0	100	100
4	NA	366/366 (100%)	366 (100%)	0	100	100
4	NC	366/366 (100%)	366 (100%)	0	100	100
4	NE	366/366 (100%)	366 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	NG	366/366 (100%)	366 (100%)	0	100	100
4	NI	366/366 (100%)	366 (100%)	0	100	100
4	NK	366/366 (100%)	366 (100%)	0	100	100
4	OA	366/366 (100%)	366 (100%)	0	100	100
4	OC	366/366 (100%)	366 (100%)	0	100	100
4	OE	366/366 (100%)	366 (100%)	0	100	100
4	OG	366/366 (100%)	366 (100%)	0	100	100
4	OI	366/366 (100%)	366 (100%)	0	100	100
4	OK	366/366 (100%)	366 (100%)	0	100	100
4	PA	366/366 (100%)	366 (100%)	0	100	100
4	PC	366/366 (100%)	366 (100%)	0	100	100
4	PE	366/366 (100%)	366 (100%)	0	100	100
4	PG	366/366 (100%)	366 (100%)	0	100	100
4	PI	366/366 (100%)	366 (100%)	0	100	100
4	PK	366/366 (100%)	366 (100%)	0	100	100
4	PM	366/366 (100%)	366 (100%)	0	100	100
4	QC	366/366 (100%)	366 (100%)	0	100	100
4	QE	366/366 (100%)	366 (100%)	0	100	100
4	QG	366/366 (100%)	366 (100%)	0	100	100
4	QI	366/366 (100%)	366 (100%)	0	100	100
4	QK	366/366 (100%)	366 (100%)	0	100	100
4	QM	366/366 (100%)	366 (100%)	0	100	100
4	RC	366/366 (100%)	366 (100%)	0	100	100
4	RE	366/366 (100%)	366 (100%)	0	100	100
4	RG	366/366 (100%)	366 (100%)	0	100	100
4	RI	366/366 (100%)	366 (100%)	0	100	100
4	RK	366/366 (100%)	366 (100%)	0	100	100
4	RM	366/366 (100%)	366 (100%)	0	100	100
4	SC	366/366 (100%)	366 (100%)	0	100	100
4	SE	366/366 (100%)	366 (100%)	0	100	100
4	SG	366/366 (100%)	366 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	SI	366/366 (100%)	366 (100%)	0	100	100
4	SK	366/366 (100%)	366 (100%)	0	100	100
4	SM	366/366 (100%)	366 (100%)	0	100	100
4	TC	366/366 (100%)	366 (100%)	0	100	100
4	TE	366/366 (100%)	366 (100%)	0	100	100
4	TG	366/366 (100%)	366 (100%)	0	100	100
4	TI	366/366 (100%)	366 (100%)	0	100	100
4	TK	366/366 (100%)	366 (100%)	0	100	100
4	TM	366/366 (100%)	366 (100%)	0	100	100
4	UA	366/366 (100%)	366 (100%)	0	100	100
4	UC	366/366 (100%)	366 (100%)	0	100	100
4	UE	366/366 (100%)	366 (100%)	0	100	100
4	UG	366/366 (100%)	366 (100%)	0	100	100
4	UI	366/366 (100%)	366 (100%)	0	100	100
4	UK	366/366 (100%)	366 (100%)	0	100	100
4	VA	366/366 (100%)	366 (100%)	0	100	100
4	VC	366/366 (100%)	366 (100%)	0	100	100
4	VE	366/366 (100%)	366 (100%)	0	100	100
4	VG	366/366 (100%)	366 (100%)	0	100	100
4	VI	366/366 (100%)	366 (100%)	0	100	100
4	VK	366/366 (100%)	366 (100%)	0	100	100
4	WA	366/366 (100%)	366 (100%)	0	100	100
4	WC	366/366 (100%)	366 (100%)	0	100	100
4	WE	366/366 (100%)	366 (100%)	0	100	100
4	WG	366/366 (100%)	366 (100%)	0	100	100
4	WI	366/366 (100%)	366 (100%)	0	100	100
4	WK	366/366 (100%)	366 (100%)	0	100	100
5	B1	215/395 (54%)	215 (100%)	0	100	100
5	B2	381/395 (96%)	381 (100%)	0	100	100
5	B3	381/395 (96%)	381 (100%)	0	100	100
5	B4	288/395 (73%)	288 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
5	B5	44/395 (11%)	44 (100%)	0	100	100
5	B6	331/395 (84%)	331 (100%)	0	100	100
5	B7	370/395 (94%)	370 (100%)	0	100	100
5	B8	364/395 (92%)	364 (100%)	0	100	100
5	B9	104/395 (26%)	104 (100%)	0	100	100
6	C	317/337 (94%)	317 (100%)	0	100	100
6	D	317/337 (94%)	317 (100%)	0	100	100
7	C1	90/445 (20%)	90 (100%)	0	100	100
7	C2	353/445 (79%)	353 (100%)	0	100	100
7	C3	353/445 (79%)	353 (100%)	0	100	100
7	C4	326/445 (73%)	326 (100%)	0	100	100
7	C5	59/445 (13%)	59 (100%)	0	100	100
7	C6	180/445 (40%)	180 (100%)	0	100	100
7	C7	359/445 (81%)	359 (100%)	0	100	100
7	C8	359/445 (81%)	359 (100%)	0	100	100
7	C9	270/445 (61%)	270 (100%)	0	100	100
7	Ca	202/445 (45%)	202 (100%)	0	100	100
7	Cb	353/445 (79%)	353 (100%)	0	100	100
7	Cc	353/445 (79%)	353 (100%)	0	100	100
7	Cd	238/445 (54%)	238 (100%)	0	100	100
8	D1	45/402 (11%)	45 (100%)	0	100	100
8	D2	330/402 (82%)	330 (100%)	0	100	100
8	D3	383/402 (95%)	383 (100%)	0	100	100
8	D4	383/402 (95%)	383 (100%)	0	100	100
8	D5	119/402 (30%)	119 (100%)	0	100	100
8	D6	66/402 (16%)	66 (100%)	0	100	100
8	D7	340/402 (85%)	340 (100%)	0	100	100
8	D8	364/402 (90%)	364 (100%)	0	100	100
8	D9	360/402 (90%)	360 (100%)	0	100	100
8	Da	49/402 (12%)	49 (100%)	0	100	100
9	E	235/745 (32%)	235 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
9	F	130/745 (17%)	130 (100%)	0	100	100
10	E1	159/174 (91%)	159 (100%)	0	100	100
10	E2	159/174 (91%)	159 (100%)	0	100	100
10	E3	159/174 (91%)	159 (100%)	0	100	100
10	E4	45/174 (26%)	45 (100%)	0	100	100
11	F1	265/487 (54%)	265 (100%)	0	100	100
11	F2	362/487 (74%)	362 (100%)	0	100	100
11	F3	362/487 (74%)	362 (100%)	0	100	100
11	F4	193/487 (40%)	193 (100%)	0	100	100
11	F5	235/487 (48%)	235 (100%)	0	100	100
11	F6	359/487 (74%)	359 (100%)	0	100	100
11	F7	359/487 (74%)	359 (100%)	0	100	100
11	F8	213/487 (44%)	213 (100%)	0	100	100
11	F9	161/487 (33%)	161 (100%)	0	100	100
11	Fa	359/487 (74%)	359 (100%)	0	100	100
11	Fb	359/487 (74%)	359 (100%)	0	100	100
11	Fc	290/487 (60%)	290 (100%)	0	100	100
11	Fd	21/487 (4%)	21 (100%)	0	100	100
11	Fe	220/487 (45%)	220 (100%)	0	100	100
11	Ff	362/487 (74%)	362 (100%)	0	100	100
11	Fg	289/487 (59%)	289 (100%)	0	100	100
11	Fh	171/487 (35%)	171 (100%)	0	100	100
11	Fi	251/487 (52%)	251 (100%)	0	100	100
11	Fj	256/487 (53%)	256 (100%)	0	100	100
11	Fk	305/487 (63%)	305 (100%)	0	100	100
11	Fl	305/487 (63%)	305 (100%)	0	100	100
11	Fm	301/487 (62%)	301 (100%)	0	100	100
12	G	406/464 (88%)	406 (100%)	0	100	100
12	H	39/464 (8%)	39 (100%)	0	100	100
13	G1	465/589 (79%)	465 (100%)	0	100	100
13	G2	452/589 (77%)	452 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
13	G3	466/589 (79%)	465 (100%)	1 (0%)	87 87
14	G4	682/683 (100%)	682 (100%)	0	100 100
14	G5	681/683 (100%)	681 (100%)	0	100 100
14	G6	681/683 (100%)	681 (100%)	0	100 100
15	H1	120/279 (43%)	120 (100%)	0	100 100
15	H2	116/279 (42%)	116 (100%)	0	100 100
15	H3	120/279 (43%)	120 (100%)	0	100 100
15	H4	119/279 (43%)	119 (100%)	0	100 100
15	H5	120/279 (43%)	119 (99%)	1 (1%)	73 80
15	H6	117/279 (42%)	117 (100%)	0	100 100
16	I	87/210 (41%)	87 (100%)	0	100 100
17	I1	33/180 (18%)	33 (100%)	0	100 100
17	I2	33/180 (18%)	33 (100%)	0	100 100
17	I3	33/180 (18%)	33 (100%)	0	100 100
18	J	146/181 (81%)	146 (100%)	0	100 100
19	J1	153/169 (90%)	153 (100%)	0	100 100
19	J2	153/169 (90%)	153 (100%)	0	100 100
19	J3	153/169 (90%)	152 (99%)	1 (1%)	76 81
20	K	236/265 (89%)	235 (100%)	1 (0%)	84 84
20	L	236/265 (89%)	236 (100%)	0	100 100
21	K1	92/434 (21%)	92 (100%)	0	100 100
21	K2	370/434 (85%)	370 (100%)	0	100 100
21	K3	375/434 (86%)	374 (100%)	1 (0%)	86 86
21	K4	345/434 (80%)	345 (100%)	0	100 100
21	K5	40/434 (9%)	40 (100%)	0	100 100
22	L1	193/235 (82%)	193 (100%)	0	100 100
22	L2	216/235 (92%)	216 (100%)	0	100 100
22	L3	216/235 (92%)	216 (100%)	0	100 100
22	L4	70/235 (30%)	70 (100%)	0	100 100
23	M	105/147 (71%)	105 (100%)	0	100 100
24	M1	54/125 (43%)	54 (100%)	0	100 100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
24	M2	54/125 (43%)	54 (100%)	0	100	100
24	M3	54/125 (43%)	54 (100%)	0	100	100
25	N	65/110 (59%)	65 (100%)	0	100	100
26	N1	58/148 (39%)	58 (100%)	0	100	100
26	N2	58/148 (39%)	58 (100%)	0	100	100
26	N3	58/148 (39%)	58 (100%)	0	100	100
26	N4	58/148 (39%)	58 (100%)	0	100	100
27	O	42/341 (12%)	42 (100%)	0	100	100
27	P	287/341 (84%)	287 (100%)	0	100	100
27	Q	162/341 (48%)	162 (100%)	0	100	100
27	R	208/341 (61%)	207 (100%)	1 (0%)	81	83
28	O1	88/165 (53%)	88 (100%)	0	100	100
28	O2	88/165 (53%)	88 (100%)	0	100	100
28	O3	88/165 (53%)	88 (100%)	0	100	100
29	P1	511/522 (98%)	511 (100%)	0	100	100
29	P2	511/522 (98%)	511 (100%)	0	100	100
29	P3	511/522 (98%)	511 (100%)	0	100	100
30	Q1	162/1391 (12%)	162 (100%)	0	100	100
30	Q2	162/1391 (12%)	162 (100%)	0	100	100
30	Q3	162/1391 (12%)	162 (100%)	0	100	100
31	R1	62/250 (25%)	62 (100%)	0	100	100
31	R2	62/250 (25%)	62 (100%)	0	100	100
31	R3	62/250 (25%)	62 (100%)	0	100	100
32	S	65/401 (16%)	65 (100%)	0	100	100
32	T	101/401 (25%)	101 (100%)	0	100	100
33	U	332/497 (67%)	332 (100%)	0	100	100
33	V	57/497 (12%)	57 (100%)	0	100	100
33	W	294/497 (59%)	294 (100%)	0	100	100
33	X	156/497 (31%)	156 (100%)	0	100	100
34	XA	173/180 (96%)	173 (100%)	0	100	100
34	XB	173/180 (96%)	173 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
34	XC	173/180 (96%)	173 (100%)	0	100	100
34	XD	173/180 (96%)	173 (100%)	0	100	100
34	XE	173/180 (96%)	173 (100%)	0	100	100
34	XF	173/180 (96%)	173 (100%)	0	100	100
34	XG	173/180 (96%)	173 (100%)	0	100	100
35	XH	161/215 (75%)	160 (99%)	1 (1%)	78	83
35	XI	161/215 (75%)	161 (100%)	0	100	100
35	XJ	161/215 (75%)	161 (100%)	0	100	100
35	XK	161/215 (75%)	161 (100%)	0	100	100
35	XL	161/215 (75%)	161 (100%)	0	100	100
35	XM	161/215 (75%)	161 (100%)	0	100	100
36	Y	194/490 (40%)	194 (100%)	0	100	100
36	Z	261/490 (53%)	261 (100%)	0	100	100
37	YA	157/157 (100%)	156 (99%)	1 (1%)	78	83
37	YB	157/157 (100%)	157 (100%)	0	100	100
37	YC	157/157 (100%)	156 (99%)	1 (1%)	78	83
37	YD	157/157 (100%)	157 (100%)	0	100	100
37	YE	157/157 (100%)	157 (100%)	0	100	100
37	YF	157/157 (100%)	157 (100%)	0	100	100
37	YG	157/157 (100%)	157 (100%)	0	100	100
37	YH	157/157 (100%)	157 (100%)	0	100	100
37	YI	157/157 (100%)	157 (100%)	0	100	100
37	YJ	157/157 (100%)	157 (100%)	0	100	100
37	YK	157/157 (100%)	157 (100%)	0	100	100
37	YL	157/157 (100%)	157 (100%)	0	100	100
37	YM	157/157 (100%)	157 (100%)	0	100	100
37	YN	157/157 (100%)	157 (100%)	0	100	100
37	YO	157/157 (100%)	157 (100%)	0	100	100
37	YP	157/157 (100%)	157 (100%)	0	100	100
37	YQ	157/157 (100%)	157 (100%)	0	100	100
37	YR	157/157 (100%)	157 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
37	YS	157/157 (100%)	157 (100%)	0	100 100
37	YT	157/157 (100%)	156 (99%)	1 (1%)	78 83
37	YU	157/157 (100%)	157 (100%)	0	100 100
37	YV	157/157 (100%)	157 (100%)	0	100 100
37	YW	157/157 (100%)	157 (100%)	0	100 100
38	a	82/91 (90%)	82 (100%)	0	100 100
All	All	138680/162697 (85%)	138669 (100%)	11 (0%)	100 100

All (11) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	FB	280	GLN
13	G3	145	GLN
15	H5	251	GLN
19	J3	92	HIS
20	K	110	ILE
21	K3	393	LEU
27	R	158	GLN
35	XH	199	GLN
37	YA	22	GLN
37	YC	119	HIS
37	YT	22	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1718) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	47	ASN
1	A	74	GLN
1	A	89	GLN
1	A	181	ASN
1	A	186	GLN
1	A	194	GLN
1	A	198	GLN
1	A	242	GLN
1	A	279	GLN
2	A1	295	ASN
2	A1	306	GLN
2	A1	357	GLN
2	A1	369	GLN

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Mol	Chain	Res	Type
2	A2	30	GLN
2	A2	42	GLN
2	A2	86	ASN
2	A2	193	ASN
2	A2	194	ASN
2	A2	234	ASN
2	A2	301	ASN
2	A2	342	GLN
2	A2	357	GLN
2	A2	377	GLN
2	A3	30	GLN
2	A3	83	GLN
2	A3	234	ASN
2	A3	357	GLN
2	A3	361	GLN
2	A3	377	GLN
2	A4	20	ASN
2	A4	33	GLN
2	A4	56	GLN
2	A4	86	ASN
2	A4	164	ASN
2	A4	224	ASN
3	AB	48	ASN
3	AB	245	GLN
3	AB	256	ASN
3	AB	335	ASN
3	AB	347	ASN
3	AB	370	ASN
3	AB	426	GLN
4	AC	8	HIS
4	AC	88	HIS
4	AC	233	GLN
4	AC	342	GLN
3	AD	334	GLN
3	AD	426	GLN
4	AE	88	HIS
4	AE	256	GLN
4	AE	285	GLN
3	AF	48	ASN
3	AF	195	ASN
3	AF	335	ASN
4	AG	88	HIS

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Mol	Chain	Res	Type
4	AG	283	HIS
4	AG	356	ASN
4	AG	393	HIS
4	AG	406	HIS
3	AH	6	HIS
3	AH	8	GLN
3	AH	256	ASN
4	AI	88	HIS
4	AI	283	HIS
4	AI	285	GLN
4	AI	372	GLN
3	AJ	6	HIS
3	AJ	8	GLN
3	AJ	11	GLN
3	AJ	256	ASN
3	AJ	426	GLN
4	AK	88	HIS
4	AK	256	GLN
4	AK	285	GLN
4	AK	393	HIS
3	AL	43	GLN
3	AL	48	ASN
3	AL	370	ASN
4	AM	88	HIS
4	AM	283	HIS
4	AM	393	HIS
1	B	299	GLN
1	B	300	ASN
5	B1	315	HIS
5	B2	36	HIS
5	B2	94	GLN
5	B2	152	GLN
5	B2	176	HIS
5	B2	282	GLN
5	B2	354	GLN
5	B3	40	GLN
5	B3	152	GLN
5	B3	171	GLN
5	B3	282	GLN
5	B3	335	GLN
5	B4	40	GLN
5	B4	47	ASN

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Mol	Chain	Res	Type
5	B4	58	HIS
5	B4	173	ASN
5	B4	217	GLN
5	B6	27	ASN
5	B6	104	GLN
5	B6	152	GLN
5	B6	171	GLN
5	B7	58	HIS
5	B7	60	ASN
5	B7	104	GLN
5	B7	152	GLN
5	B7	160	GLN
5	B7	354	GLN
5	B8	27	ASN
5	B8	152	GLN
5	B8	343	HIS
5	B8	360	GLN
5	B9	354	GLN
3	BB	15	GLN
3	BB	48	ASN
3	BB	280	GLN
3	BB	334	GLN
3	BB	370	ASN
3	BB	426	GLN
4	BC	8	HIS
4	BC	88	HIS
4	BC	285	GLN
4	BC	393	HIS
3	BD	137	HIS
3	BD	195	ASN
3	BD	426	GLN
4	BE	88	HIS
4	BE	139	HIS
4	BE	285	GLN
4	BE	393	HIS
3	BF	8	GLN
3	BF	14	ASN
3	BF	191	GLN
3	BF	426	GLN
4	BG	8	HIS
4	BG	88	HIS
4	BG	91	GLN

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Mol	Chain	Res	Type
4	BG	285	GLN
4	BG	393	HIS
3	BH	8	GLN
3	BH	195	ASN
3	BH	334	GLN
4	BI	8	HIS
4	BI	226	ASN
4	BI	258	ASN
4	BI	393	HIS
3	BJ	14	ASN
3	BJ	48	ASN
3	BJ	190	HIS
3	BJ	195	ASN
3	BJ	226	ASN
3	BJ	245	GLN
3	BJ	414	ASN
3	BJ	426	GLN
4	BK	8	HIS
4	BK	88	HIS
4	BK	226	ASN
4	BK	285	GLN
4	BK	393	HIS
3	BL	43	GLN
3	BL	334	GLN
3	BL	426	GLN
4	BM	88	HIS
6	C	170	GLN
6	C	225	HIS
6	C	299	ASN
6	C	370	GLN
7	C1	115	HIS
7	C2	111	ASN
7	C2	115	HIS
7	C2	230	GLN
7	C2	243	GLN
7	C2	307	ASN
7	C2	334	ASN
7	C3	103	ASN
7	C3	145	ASN
7	C3	252	HIS
7	C3	327	ASN
7	C3	338	ASN

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Mol	Chain	Res	Type
7	C3	339	GLN
7	C3	359	ASN
7	C4	129	GLN
7	C4	133	GLN
7	C4	172	ASN
7	C4	307	ASN
7	C4	344	ASN
7	C4	417	GLN
7	C4	422	ASN
7	C5	397	GLN
7	C5	432	GLN
7	C6	141	HIS
7	C6	243	GLN
7	C6	327	ASN
7	C7	139	GLN
7	C7	212	HIS
7	C7	230	GLN
7	C7	243	GLN
7	C7	273	HIS
7	C7	338	ASN
7	C7	457	HIS
7	C8	133	GLN
7	C8	172	ASN
7	C8	230	GLN
7	C8	243	GLN
7	C8	338	ASN
7	C9	212	HIS
7	C9	230	GLN
7	C9	243	GLN
7	C9	370	GLN
7	C9	374	GLN
7	C9	417	GLN
7	C9	436	GLN
7	C9	457	HIS
7	C9	470	GLN
3	CB	8	GLN
3	CB	204	ASN
3	CB	256	ASN
3	CB	414	ASN
4	CC	88	HIS
4	CC	226	ASN
4	CC	342	GLN

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Mol	Chain	Res	Type
4	CC	372	GLN
3	CD	11	GLN
3	CD	195	ASN
3	CD	426	GLN
4	CE	61	HIS
4	CE	88	HIS
4	CE	258	ASN
4	CE	285	GLN
3	CF	245	GLN
3	CF	347	ASN
3	CF	426	GLN
4	CG	88	HIS
4	CG	139	HIS
4	CG	285	GLN
4	CG	342	GLN
4	CG	372	GLN
4	CG	393	HIS
3	CH	190	HIS
3	CH	227	HIS
3	CH	279	GLN
3	CH	426	GLN
4	CI	35	GLN
4	CI	88	HIS
4	CI	283	HIS
4	CI	285	GLN
4	CI	393	HIS
3	CJ	8	GLN
3	CJ	11	GLN
3	CJ	43	GLN
3	CJ	99	ASN
3	CJ	426	GLN
4	CK	8	HIS
4	CK	88	HIS
4	CK	91	GLN
4	CK	226	ASN
4	CK	283	HIS
4	CK	342	GLN
4	CK	393	HIS
3	CL	8	GLN
3	CL	426	GLN
4	CM	88	HIS
4	CM	233	GLN

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Mol	Chain	Res	Type
7	Ca	327	ASN
7	Ca	339	GLN
7	Ca	341	ASN
7	Ca	370	GLN
7	Ca	436	GLN
7	Cb	116	ASN
7	Cb	230	GLN
7	Cb	251	GLN
7	Cb	272	GLN
7	Cb	344	ASN
7	Cb	397	GLN
7	Cc	133	GLN
7	Cc	272	GLN
7	Cc	338	ASN
7	Cc	359	ASN
7	Cc	374	GLN
7	Cd	133	GLN
7	Cd	151	ASN
7	Cd	251	GLN
7	Cd	273	HIS
6	D	166	ASN
6	D	170	GLN
8	D2	93	GLN
8	D2	187	GLN
8	D2	261	ASN
8	D2	296	GLN
8	D2	400	GLN
8	D3	32	ASN
8	D3	93	GLN
8	D3	134	GLN
8	D3	239	GLN
8	D3	243	HIS
8	D3	296	GLN
8	D3	385	ASN
8	D3	433	HIS
8	D4	93	GLN
8	D4	118	GLN
8	D4	261	ASN
8	D4	264	ASN
8	D4	296	GLN
8	D4	332	GLN
8	D4	359	GLN

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Mol	Chain	Res	Type
8	D5	428	GLN
8	D7	118	GLN
8	D7	261	ASN
8	D7	296	GLN
8	D7	316	GLN
8	D7	365	ASN
8	D7	400	GLN
8	D8	118	GLN
8	D8	296	GLN
8	D8	316	GLN
8	D8	362	HIS
8	D8	400	GLN
8	D9	155	ASN
8	D9	163	GLN
8	D9	164	HIS
8	D9	237	GLN
8	D9	261	ASN
8	D9	296	GLN
8	D9	301	ASN
8	D9	316	GLN
8	D9	334	HIS
8	D9	359	GLN
8	D9	400	GLN
8	D9	404	ASN
8	D9	428	GLN
4	DA	88	HIS
4	DA	406	HIS
3	DB	195	ASN
3	DB	334	GLN
3	DB	426	GLN
4	DC	8	HIS
4	DC	88	HIS
4	DC	107	HIS
4	DC	283	HIS
3	DD	8	GLN
3	DD	195	ASN
3	DD	245	GLN
3	DD	414	ASN
4	DE	8	HIS
4	DE	88	HIS
4	DE	233	GLN
4	DE	258	ASN

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Mol	Chain	Res	Type
4	DE	283	HIS
4	DE	285	GLN
4	DE	393	HIS
3	DF	11	GLN
3	DF	190	HIS
3	DF	191	GLN
3	DF	195	ASN
3	DF	414	ASN
3	DF	426	GLN
4	DG	88	HIS
4	DG	91	GLN
4	DG	139	HIS
4	DG	285	GLN
4	DG	372	GLN
3	DH	131	GLN
3	DH	195	ASN
3	DH	256	ASN
4	DI	8	HIS
4	DI	35	GLN
4	DI	88	HIS
4	DI	139	HIS
4	DI	285	GLN
3	DJ	11	GLN
3	DJ	256	ASN
3	DJ	334	GLN
3	DJ	426	GLN
4	DK	61	HIS
4	DK	176	GLN
4	DK	372	GLN
4	DK	393	HIS
3	DL	195	ASN
3	DL	256	ASN
3	DL	334	GLN
3	DL	347	ASN
8	Da	96	GLN
9	E	444	HIS
9	E	573	HIS
9	E	574	HIS
9	E	579	ASN
9	E	616	HIS
9	E	644	ASN
9	E	780	GLN

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Mol	Chain	Res	Type
9	E	836	ASN
10	E1	25	HIS
10	E2	143	GLN
10	E3	185	GLN
4	EA	8	HIS
4	EA	88	HIS
4	EA	283	HIS
4	EA	285	GLN
3	EB	43	GLN
3	EB	48	ASN
3	EB	191	GLN
4	EC	35	GLN
4	EC	256	GLN
4	EC	285	GLN
3	ED	11	GLN
3	ED	195	ASN
3	ED	245	GLN
3	ED	334	GLN
3	ED	370	ASN
4	EE	88	HIS
4	EE	256	GLN
4	EE	285	GLN
4	EE	293	ASN
4	EG	91	GLN
4	EG	283	HIS
4	EG	285	GLN
4	EG	293	ASN
4	EG	372	GLN
3	EH	43	GLN
3	EH	48	ASN
3	EH	247	ASN
3	EH	334	GLN
3	EH	423	GLN
3	EH	424	GLN
4	EI	88	HIS
4	EI	91	GLN
4	EI	176	GLN
4	EI	226	ASN
4	EI	283	HIS
4	EI	285	GLN
4	EI	372	GLN
4	EI	406	HIS

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Mol	Chain	Res	Type
3	EJ	190	HIS
3	EJ	334	GLN
3	EJ	424	GLN
3	EJ	426	GLN
4	EK	88	HIS
4	EK	256	GLN
4	EK	285	GLN
4	EK	406	HIS
3	EL	28	HIS
3	EL	190	HIS
3	EL	256	ASN
3	EL	334	GLN
3	EL	347	ASN
9	F	336	GLN
11	F1	239	GLN
11	F1	243	ASN
11	F1	308	GLN
11	F1	373	ASN
11	F1	442	GLN
11	F2	99	ASN
11	F2	105	ASN
11	F2	125	GLN
11	F2	132	HIS
11	F2	266	ASN
11	F2	335	GLN
11	F2	428	GLN
11	F2	442	GLN
11	F3	99	ASN
11	F3	129	GLN
11	F3	132	HIS
11	F3	133	GLN
11	F3	167	ASN
11	F3	228	GLN
11	F3	243	ASN
11	F3	335	GLN
11	F3	373	ASN
11	F3	393	GLN
11	F3	428	GLN
11	F4	129	GLN
11	F4	133	GLN
11	F5	243	ASN
11	F5	308	GLN

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Mol	Chain	Res	Type
11	F5	323	HIS
11	F5	331	GLN
11	F5	340	ASN
11	F6	129	GLN
11	F6	141	ASN
11	F6	266	ASN
11	F6	269	ASN
11	F6	323	HIS
11	F6	338	ASN
11	F6	344	ASN
11	F6	373	ASN
11	F6	418	ASN
11	F7	105	ASN
11	F7	129	GLN
11	F7	132	HIS
11	F7	144	GLN
11	F7	210	ASN
11	F7	214	ASN
11	F7	308	GLN
11	F7	393	GLN
11	F7	460	ASN
11	F8	393	GLN
11	F9	338	ASN
11	F9	358	GLN
11	F9	360	GLN
4	FA	88	HIS
4	FA	91	GLN
4	FA	176	GLN
4	FA	228	ASN
4	FA	283	HIS
4	FA	285	GLN
4	FA	342	GLN
3	FB	280	GLN
3	FB	370	ASN
3	FB	426	GLN
4	FC	8	HIS
4	FC	88	HIS
4	FC	91	GLN
4	FC	233	GLN
4	FC	285	GLN
3	FD	11	GLN
3	FD	43	GLN

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Mol	Chain	Res	Type
3	FD	190	HIS
3	FD	195	ASN
3	FD	334	GLN
3	FD	426	GLN
4	FE	88	HIS
4	FE	176	GLN
4	FE	233	GLN
4	FE	283	HIS
4	FE	285	GLN
4	FE	372	GLN
3	FF	6	HIS
3	FF	28	HIS
3	FF	190	HIS
3	FF	195	ASN
3	FF	291	GLN
3	FF	426	GLN
4	FG	283	HIS
4	FG	285	GLN
3	FH	15	GLN
3	FH	28	HIS
3	FH	190	HIS
3	FH	195	ASN
3	FH	347	ASN
3	FH	426	GLN
4	FI	35	GLN
4	FI	88	HIS
4	FI	283	HIS
4	FI	285	GLN
4	FI	372	GLN
4	FI	393	HIS
3	FJ	15	GLN
3	FJ	190	HIS
3	FJ	334	GLN
3	FJ	423	GLN
3	FJ	426	GLN
4	FK	88	HIS
4	FK	285	GLN
4	FK	406	HIS
3	FL	11	GLN
3	FL	256	ASN
3	FL	347	ASN
3	FL	423	GLN

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Mol	Chain	Res	Type
3	FL	426	GLN
11	Fa	99	ASN
11	Fa	185	ASN
11	Fa	358	GLN
11	Fa	442	GLN
11	Fa	453	HIS
11	Fb	125	GLN
11	Fb	135	GLN
11	Fb	226	GLN
11	Fb	239	GLN
11	Fb	243	ASN
11	Fb	303	ASN
11	Fb	313	ASN
11	Fb	331	GLN
11	Fb	340	ASN
11	Fb	373	ASN
11	Fb	418	ASN
11	Fb	428	GLN
11	Fb	442	GLN
11	Fc	102	GLN
11	Fc	125	GLN
11	Fc	135	GLN
11	Fc	239	GLN
11	Fc	303	ASN
11	Fc	308	GLN
11	Fc	331	GLN
11	Fc	340	ASN
11	Fe	214	ASN
11	Fe	226	GLN
11	Fe	243	ASN
11	Fe	266	ASN
11	Fe	308	GLN
11	Ff	132	HIS
11	Ff	266	ASN
11	Ff	393	GLN
11	Ff	442	GLN
11	Fg	185	ASN
11	Fg	210	ASN
11	Fg	214	ASN
11	Fg	308	GLN
11	Fg	309	ASN
11	Fg	335	GLN

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Mol	Chain	Res	Type
11	Fg	358	GLN
11	Fg	428	GLN
11	Fh	393	GLN
11	Fi	308	GLN
11	Fi	335	GLN
11	Fi	366	GLN
11	Fj	197	ASN
11	Fj	313	ASN
11	Fj	340	ASN
11	Fk	144	GLN
11	Fk	167	ASN
11	Fk	228	GLN
11	Fk	308	GLN
11	Fk	309	ASN
11	Fk	418	ASN
11	Fl	226	GLN
11	Fl	266	ASN
11	Fl	335	GLN
11	Fl	428	GLN
11	Fm	266	ASN
11	Fm	360	GLN
11	Fm	428	GLN
12	G	70	ASN
12	G	88	GLN
12	G	183	GLN
12	G	265	GLN
12	G	276	GLN
12	G	278	GLN
12	G	330	GLN
12	G	406	GLN
12	G	454	GLN
13	G1	164	HIS
13	G1	283	ASN
13	G2	29	GLN
13	G2	164	HIS
13	G2	261	HIS
13	G2	265	HIS
13	G2	396	ASN
13	G2	532	GLN
13	G3	501	HIS
14	G4	25	HIS
14	G4	30	ASN

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Mol	Chain	Res	Type
14	G4	134	GLN
14	G4	176	ASN
14	G4	297	GLN
14	G4	305	ASN
14	G4	748	ASN
14	G5	25	HIS
14	G5	30	ASN
14	G5	145	GLN
14	G5	176	ASN
14	G5	535	ASN
14	G5	641	ASN
14	G6	21	HIS
14	G6	25	HIS
14	G6	30	ASN
14	G6	297	GLN
14	G6	305	ASN
14	G6	564	GLN
14	G6	641	ASN
14	G6	748	ASN
4	GA	88	HIS
4	GA	91	GLN
4	GA	283	HIS
4	GA	285	GLN
4	GA	372	GLN
3	GB	11	GLN
3	GB	14	ASN
3	GB	256	ASN
3	GB	347	ASN
3	GB	426	GLN
4	GC	8	HIS
4	GC	88	HIS
4	GC	283	HIS
4	GC	285	GLN
4	GC	393	HIS
4	GC	406	HIS
3	GD	48	ASN
3	GD	195	ASN
3	GD	347	ASN
4	GE	88	HIS
4	GE	176	GLN
4	GE	228	ASN
4	GE	256	GLN

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Mol	Chain	Res	Type
4	GE	285	GLN
3	GF	11	GLN
3	GF	256	ASN
3	GF	347	ASN
3	GF	370	ASN
3	GF	423	GLN
3	GF	426	GLN
4	GG	88	HIS
4	GG	139	HIS
4	GG	285	GLN
3	GH	11	GLN
3	GH	15	GLN
3	GH	195	ASN
3	GH	227	HIS
3	GH	423	GLN
3	GH	426	GLN
4	GI	88	HIS
4	GI	285	GLN
3	GJ	137	HIS
4	GK	35	GLN
4	GK	88	HIS
4	GK	228	ASN
4	GK	256	GLN
4	GK	285	GLN
4	GK	356	ASN
4	GK	393	HIS
3	GL	14	ASN
3	GL	131	GLN
3	GL	334	GLN
3	GL	347	ASN
3	GL	423	GLN
15	H1	251	GLN
15	H1	295	ASN
15	H2	26	GLN
15	H3	26	GLN
15	H4	26	GLN
15	H4	295	ASN
15	H5	26	GLN
15	H5	295	ASN
15	H6	30	GLN
15	H6	302	ASN
15	H6	309	GLN

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Mol	Chain	Res	Type
4	HA	88	HIS
4	HA	258	ASN
4	HA	283	HIS
4	HA	285	GLN
3	HB	11	GLN
3	HB	195	ASN
4	HC	88	HIS
4	HC	226	ASN
4	HC	283	HIS
4	HC	285	GLN
3	HD	43	GLN
3	HD	195	ASN
3	HD	226	ASN
3	HD	334	GLN
3	HD	347	ASN
3	HD	414	ASN
4	HE	8	HIS
4	HE	88	HIS
4	HE	256	GLN
4	HE	285	GLN
4	HE	393	HIS
3	HF	8	GLN
3	HF	43	GLN
3	HF	48	ASN
3	HF	256	ASN
3	HF	292	GLN
3	HF	347	ASN
3	HF	426	GLN
4	HG	88	HIS
4	HG	139	HIS
4	HG	283	HIS
3	HH	191	GLN
3	HH	195	ASN
3	HH	334	GLN
4	HI	88	HIS
4	HI	283	HIS
4	HI	285	GLN
4	HI	393	HIS
3	HJ	14	ASN
3	HJ	43	GLN
3	HJ	195	ASN
3	HJ	347	ASN

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Mol	Chain	Res	Type
3	HJ	370	ASN
3	HJ	375	GLN
3	HJ	426	GLN
4	HK	283	HIS
4	HK	285	GLN
4	HK	406	HIS
3	HL	11	GLN
3	HL	347	ASN
3	HL	423	GLN
3	HL	426	GLN
17	I1	43	ASN
17	I1	54	ASN
4	IA	8	HIS
4	IA	258	ASN
3	IB	195	ASN
3	IB	329	GLN
3	IB	424	GLN
4	IC	283	HIS
4	IC	293	ASN
3	ID	6	HIS
3	ID	195	ASN
3	ID	226	ASN
4	IE	8	HIS
4	IE	283	HIS
4	IE	285	GLN
4	IE	393	HIS
3	IF	8	GLN
3	IF	43	GLN
3	IF	184	ASN
3	IF	195	ASN
3	IF	334	GLN
3	IF	423	GLN
3	IF	426	GLN
4	IG	258	ASN
4	IG	372	GLN
4	IG	393	HIS
3	IH	195	ASN
4	II	258	ASN
4	II	285	GLN
3	IJ	89	ASN
3	IJ	184	ASN
3	IJ	256	ASN

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Mol	Chain	Res	Type
3	IJ	347	ASN
3	IJ	370	ASN
3	IJ	424	GLN
4	IK	283	HIS
4	IK	285	GLN
3	IL	11	GLN
3	IL	14	ASN
3	IL	28	HIS
3	IL	137	HIS
3	IL	256	ASN
3	IL	334	GLN
3	IL	426	GLN
4	IM	285	GLN
4	IM	406	HIS
18	J	87	HIS
18	J	89	GLN
18	J	120	ASN
18	J	181	HIS
19	J1	23	GLN
19	J3	66	GLN
19	J3	92	HIS
19	J3	125	ASN
19	J3	177	ASN
4	JA	8	HIS
4	JA	88	HIS
4	JA	176	GLN
3	JB	195	ASN
3	JB	256	ASN
3	JB	334	GLN
3	JB	423	GLN
4	JC	8	HIS
4	JC	88	HIS
4	JC	283	HIS
4	JC	301	GLN
4	JC	393	HIS
4	JC	406	HIS
3	JD	48	ASN
3	JD	426	GLN
4	JE	8	HIS
4	JE	88	HIS
4	JE	91	GLN
4	JE	283	HIS

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Mol	Chain	Res	Type
4	JE	285	GLN
4	JE	301	GLN
3	JF	256	ASN
3	JF	347	ASN
3	JF	426	GLN
4	JG	88	HIS
4	JG	91	GLN
4	JG	228	ASN
4	JG	285	GLN
3	JH	190	HIS
3	JH	334	GLN
3	JH	347	ASN
3	JH	414	ASN
3	JH	426	GLN
4	JI	8	HIS
4	JI	88	HIS
4	JI	285	GLN
4	JI	393	HIS
3	JJ	256	ASN
3	JJ	347	ASN
3	JJ	426	GLN
4	JK	88	HIS
4	JK	91	GLN
4	JK	283	HIS
4	JK	285	GLN
3	JL	48	ASN
3	JL	195	ASN
3	JL	334	GLN
3	JL	347	ASN
3	JL	426	GLN
20	K	74	ASN
20	K	204	GLN
21	K1	442	ASN
21	K2	120	GLN
21	K2	467	GLN
21	K3	120	GLN
21	K3	144	GLN
21	K3	338	GLN
21	K3	386	ASN
21	K3	394	ASN
21	K3	404	HIS
21	K3	471	HIS

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Mol	Chain	Res	Type
21	K3	478	GLN
21	K4	239	GLN
21	K4	323	ASN
21	K4	338	GLN
21	K4	417	GLN
21	K4	432	ASN
21	K4	471	HIS
4	KA	8	HIS
4	KA	88	HIS
4	KA	91	GLN
4	KA	258	ASN
4	KA	372	GLN
4	KA	393	HIS
4	KA	406	HIS
3	KB	15	GLN
3	KB	195	ASN
3	KB	256	ASN
3	KB	347	ASN
3	KB	414	ASN
3	KB	426	GLN
4	KC	35	GLN
4	KC	107	HIS
4	KC	283	HIS
4	KC	356	ASN
4	KC	372	GLN
3	KD	48	ASN
3	KD	195	ASN
3	KD	279	GLN
3	KD	334	GLN
3	KD	347	ASN
3	KD	426	GLN
4	KE	256	GLN
4	KE	372	GLN
3	KF	6	HIS
3	KF	43	GLN
3	KF	195	ASN
3	KF	256	ASN
3	KF	334	GLN
3	KF	426	GLN
4	KG	285	GLN
4	KG	356	ASN
4	KG	393	HIS

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Mol	Chain	Res	Type
3	KH	195	ASN
3	KH	256	ASN
3	KH	334	GLN
3	KH	414	ASN
3	KH	426	GLN
4	KI	8	HIS
4	KI	258	ASN
4	KI	283	HIS
4	KI	285	GLN
3	KJ	190	HIS
3	KJ	347	ASN
3	KJ	414	ASN
3	KJ	426	GLN
4	KK	8	HIS
4	KK	88	HIS
4	KK	176	GLN
4	KK	256	GLN
4	KK	283	HIS
4	KK	356	ASN
4	KK	406	HIS
3	KL	8	GLN
3	KL	195	ASN
3	KL	280	GLN
3	KL	347	ASN
3	KL	426	GLN
20	L	169	HIS
20	L	236	ASN
22	L1	24	HIS
22	L1	254	ASN
22	L2	109	ASN
22	L2	174	ASN
22	L3	66	HIS
22	L3	109	ASN
4	LA	256	GLN
4	LA	285	GLN
3	LB	11	GLN
3	LB	14	ASN
3	LB	37	HIS
3	LB	195	ASN
3	LB	227	HIS
3	LB	334	GLN
4	LC	285	GLN

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Mol	Chain	Res	Type
3	LD	15	GLN
3	LD	48	ASN
3	LD	191	GLN
3	LD	280	GLN
3	LD	348	ASN
3	LD	426	GLN
4	LE	372	GLN
3	LF	227	HIS
3	LF	416	ASN
3	LF	426	GLN
4	LG	283	HIS
4	LG	285	GLN
4	LG	293	ASN
4	LG	309	HIS
4	LG	356	ASN
4	LG	393	HIS
3	LH	11	GLN
3	LH	347	ASN
3	LH	426	GLN
4	LI	88	HIS
4	LI	258	ASN
4	LI	283	HIS
4	LI	393	HIS
3	LJ	6	HIS
3	LJ	48	ASN
3	LJ	195	ASN
4	LK	283	HIS
4	LK	285	GLN
4	LK	356	ASN
3	LL	195	ASN
3	LL	264	HIS
3	LL	334	GLN
3	LL	426	GLN
3	MB	28	HIS
3	MB	195	ASN
3	MB	256	ASN
3	MB	426	GLN
4	MC	88	HIS
4	MC	283	HIS
4	MC	356	ASN
3	MD	8	GLN
3	MD	48	ASN

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Mol	Chain	Res	Type
3	MD	191	GLN
3	MD	195	ASN
3	MD	245	GLN
3	MD	307	HIS
3	MD	334	GLN
3	MD	370	ASN
3	MD	426	GLN
4	ME	88	HIS
4	ME	258	ASN
4	ME	283	HIS
4	ME	285	GLN
4	ME	393	HIS
3	MF	195	ASN
3	MF	347	ASN
4	MG	88	HIS
4	MG	285	GLN
4	MG	372	GLN
3	MH	334	GLN
3	MH	416	ASN
4	MI	35	GLN
4	MI	88	HIS
4	MI	233	GLN
4	MI	283	HIS
4	MI	285	GLN
3	MJ	8	GLN
3	MJ	195	ASN
3	MJ	334	GLN
3	MJ	426	GLN
4	MK	88	HIS
4	MK	233	GLN
4	MK	256	GLN
4	MK	283	HIS
4	MK	293	ASN
3	ML	6	HIS
3	ML	15	GLN
3	ML	256	ASN
3	ML	332	ASN
3	ML	334	GLN
3	ML	426	GLN
4	MM	8	HIS
4	MM	88	HIS
4	MM	101	ASN

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Mol	Chain	Res	Type
4	MM	283	HIS
4	MM	285	GLN
26	N1	96	GLN
26	N1	161	ASN
26	N2	96	GLN
26	N2	149	HIS
26	N2	154	ASN
26	N3	96	GLN
26	N3	154	ASN
26	N4	96	GLN
26	N4	149	HIS
26	N4	154	ASN
4	NA	91	GLN
4	NA	176	GLN
4	NA	285	GLN
4	NA	356	ASN
4	NA	393	HIS
3	NB	43	GLN
3	NB	426	GLN
4	NC	91	GLN
4	NC	226	ASN
4	NC	283	HIS
4	NC	293	ASN
4	NC	356	ASN
3	ND	8	GLN
3	ND	15	GLN
3	ND	195	ASN
3	ND	426	GLN
4	NE	176	GLN
4	NE	285	GLN
4	NE	356	ASN
3	NF	8	GLN
3	NF	11	GLN
3	NF	48	ASN
3	NF	256	ASN
4	NG	91	GLN
4	NG	176	GLN
4	NG	226	ASN
4	NG	356	ASN
4	NG	372	GLN
4	NG	393	HIS
3	NH	8	GLN

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Mol	Chain	Res	Type
3	NH	191	GLN
3	NH	334	GLN
3	NH	426	GLN
4	NI	8	HIS
4	NI	88	HIS
4	NI	285	GLN
4	NI	356	ASN
4	NI	393	HIS
3	NJ	8	GLN
3	NJ	11	GLN
3	NJ	195	ASN
3	NJ	426	GLN
4	NK	88	HIS
4	NK	91	GLN
4	NK	226	ASN
4	NK	356	ASN
4	NK	372	GLN
3	NL	256	ASN
28	O1	9	GLN
28	O1	20	GLN
28	O1	35	HIS
28	O1	91	ASN
28	O2	35	HIS
28	O3	9	GLN
4	OA	88	HIS
4	OA	285	GLN
4	OA	356	ASN
4	OA	372	GLN
3	OB	8	GLN
3	OB	195	ASN
3	OB	426	GLN
4	OC	11	GLN
4	OC	88	HIS
3	OD	195	ASN
3	OD	414	ASN
3	OD	416	ASN
3	OD	423	GLN
4	OE	8	HIS
4	OE	88	HIS
4	OE	91	GLN
3	OF	195	ASN
3	OF	424	GLN

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Mol	Chain	Res	Type
4	OG	88	HIS
4	OG	91	GLN
4	OG	256	GLN
4	OG	372	GLN
3	OH	334	GLN
3	OH	416	ASN
3	OH	423	GLN
4	OI	8	HIS
4	OI	88	HIS
4	OI	226	ASN
3	OJ	423	GLN
3	OJ	426	GLN
4	OK	88	HIS
4	OK	91	GLN
4	OK	283	HIS
4	OK	356	ASN
4	OK	372	GLN
4	OK	393	HIS
3	OL	195	ASN
3	OL	291	GLN
3	OL	334	GLN
27	P	62	HIS
27	P	102	GLN
29	P1	58	ASN
29	P1	160	ASN
29	P1	200	GLN
29	P1	589	ASN
29	P2	58	ASN
29	P2	416	HIS
29	P3	58	ASN
29	P3	200	GLN
29	P3	460	HIS
4	PA	176	GLN
4	PA	283	HIS
4	PA	293	ASN
4	PA	393	HIS
3	PB	334	GLN
3	PB	370	ASN
3	PB	426	GLN
4	PC	88	HIS
4	PC	107	HIS
4	PC	283	HIS

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Mol	Chain	Res	Type
4	PC	356	ASN
4	PC	393	HIS
3	PD	15	GLN
3	PD	195	ASN
3	PD	426	GLN
4	PE	91	GLN
4	PE	283	HIS
4	PE	285	GLN
3	PF	15	GLN
3	PF	195	ASN
3	PF	256	ASN
3	PF	334	GLN
3	PF	347	ASN
3	PF	423	GLN
3	PF	426	GLN
4	PG	11	GLN
4	PG	88	HIS
4	PG	226	ASN
4	PG	283	HIS
4	PG	285	GLN
4	PG	372	GLN
4	PG	393	HIS
3	PH	8	GLN
3	PH	11	GLN
3	PH	245	GLN
3	PH	256	ASN
3	PH	334	GLN
3	PH	423	GLN
3	PH	426	GLN
4	PI	8	HIS
4	PI	88	HIS
4	PI	258	ASN
4	PI	283	HIS
4	PI	285	GLN
4	PI	356	ASN
3	PJ	15	GLN
3	PJ	191	GLN
3	PJ	245	GLN
3	PJ	423	GLN
4	PK	11	GLN
4	PK	88	HIS
4	PK	91	GLN

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Mol	Chain	Res	Type
4	PK	283	HIS
4	PK	356	ASN
4	PK	406	HIS
3	PL	11	GLN
3	PL	426	GLN
4	PM	11	GLN
4	PM	88	HIS
4	PM	226	ASN
4	PM	233	GLN
4	PM	285	GLN
4	PM	293	ASN
27	Q	51	GLN
27	Q	80	HIS
30	Q2	1444	GLN
3	QB	43	GLN
3	QB	195	ASN
3	QB	334	GLN
3	QB	426	GLN
4	QC	8	HIS
4	QC	88	HIS
4	QC	283	HIS
4	QC	285	GLN
4	QC	342	GLN
3	QD	426	GLN
4	QE	88	HIS
4	QE	293	ASN
3	QF	43	GLN
3	QF	195	ASN
3	QF	245	GLN
3	QF	256	ASN
3	QF	426	GLN
4	QG	226	ASN
4	QG	283	HIS
4	QG	356	ASN
4	QG	406	HIS
3	QH	195	ASN
3	QH	334	GLN
4	QI	88	HIS
4	QI	233	GLN
4	QI	283	HIS
4	QI	285	GLN
4	QI	372	GLN

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Mol	Chain	Res	Type
3	QJ	11	GLN
3	QJ	423	GLN
4	QK	88	HIS
4	QK	91	GLN
4	QK	283	HIS
4	QK	285	GLN
4	QK	372	GLN
3	QL	11	GLN
3	QL	48	ASN
3	QL	195	ASN
3	QL	426	GLN
4	QM	8	HIS
4	QM	11	GLN
4	QM	88	HIS
4	QM	91	GLN
4	QM	285	GLN
4	QM	372	GLN
4	QM	393	HIS
31	R1	138	ASN
31	R2	272	GLN
3	RB	15	GLN
3	RB	89	ASN
3	RB	334	GLN
4	RC	91	GLN
4	RC	283	HIS
3	RD	137	HIS
3	RD	195	ASN
3	RD	334	GLN
3	RD	426	GLN
4	RE	8	HIS
4	RE	91	GLN
4	RE	176	GLN
4	RE	285	GLN
4	RE	393	HIS
3	RF	256	ASN
3	RF	424	GLN
3	RF	426	GLN
4	RG	8	HIS
4	RG	88	HIS
4	RG	91	GLN
4	RG	283	HIS
3	RH	6	HIS

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Mol	Chain	Res	Type
3	RH	245	GLN
3	RH	334	GLN
3	RH	426	GLN
4	RI	91	GLN
4	RI	107	HIS
4	RI	393	HIS
3	RJ	256	ASN
3	RJ	426	GLN
4	RK	88	HIS
4	RK	226	ASN
4	RK	283	HIS
4	RK	285	GLN
3	RL	375	GLN
3	RL	426	GLN
4	RM	88	HIS
4	RM	233	GLN
4	RM	285	GLN
4	RM	356	ASN
32	S	387	HIS
3	SB	8	GLN
3	SB	11	GLN
3	SB	256	ASN
3	SB	334	GLN
3	SB	424	GLN
3	SB	426	GLN
4	SC	88	HIS
4	SC	91	GLN
4	SC	293	ASN
3	SD	256	ASN
3	SD	334	GLN
3	SD	370	ASN
3	SD	424	GLN
3	SD	426	GLN
4	SE	8	HIS
4	SE	88	HIS
4	SE	91	GLN
4	SE	226	ASN
4	SE	283	HIS
4	SE	285	GLN
4	SE	356	ASN
3	SF	8	GLN
3	SF	14	ASN

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Mol	Chain	Res	Type
3	SF	15	GLN
3	SF	334	GLN
3	SF	414	ASN
3	SF	423	GLN
3	SF	426	GLN
4	SG	88	HIS
4	SG	283	HIS
3	SH	334	GLN
3	SH	414	ASN
3	SH	426	GLN
4	SI	8	HIS
4	SI	88	HIS
4	SI	226	ASN
4	SI	283	HIS
4	SI	285	GLN
4	SI	372	GLN
3	SJ	11	GLN
3	SJ	195	ASN
3	SJ	256	ASN
3	SJ	334	GLN
3	SJ	424	GLN
4	SK	101	ASN
4	SK	283	HIS
4	SK	285	GLN
4	SK	293	ASN
3	SL	11	GLN
3	SL	99	ASN
3	SL	195	ASN
4	SM	88	HIS
4	SM	91	GLN
4	SM	283	HIS
4	SM	285	GLN
4	SM	372	GLN
32	T	325	HIS
32	T	328	GLN
32	T	344	HIS
3	TB	256	ASN
3	TB	334	GLN
4	TC	88	HIS
4	TC	283	HIS
4	TC	285	GLN
4	TC	393	HIS

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Mol	Chain	Res	Type
3	TD	11	GLN
3	TD	245	GLN
3	TD	334	GLN
3	TD	426	GLN
4	TE	11	GLN
4	TE	88	HIS
4	TE	285	GLN
4	TE	293	ASN
3	TF	14	ASN
3	TF	256	ASN
3	TF	334	GLN
3	TF	423	GLN
3	TF	426	GLN
4	TG	8	HIS
4	TG	35	GLN
4	TG	88	HIS
4	TG	258	ASN
4	TG	283	HIS
4	TG	285	GLN
4	TG	356	ASN
4	TG	372	GLN
3	TH	195	ASN
3	TH	256	ASN
3	TH	426	GLN
4	TI	285	GLN
4	TI	293	ASN
4	TI	372	GLN
3	TJ	8	GLN
3	TJ	11	GLN
3	TJ	256	ASN
3	TJ	329	GLN
3	TJ	332	ASN
3	TJ	334	GLN
3	TJ	414	ASN
3	TJ	426	GLN
4	TK	8	HIS
4	TK	11	GLN
4	TK	88	HIS
4	TK	91	GLN
4	TK	226	ASN
4	TK	283	HIS
4	TK	285	GLN

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Mol	Chain	Res	Type
4	TK	293	ASN
4	TK	356	ASN
4	TK	372	GLN
4	TK	393	HIS
3	TL	14	ASN
3	TL	195	ASN
4	TM	88	HIS
4	TM	283	HIS
4	TM	285	GLN
4	TM	293	ASN
3	TN	43	GLN
3	TN	195	ASN
33	U	243	GLN
33	U	306	GLN
33	U	386	GLN
33	U	427	GLN
33	U	453	GLN
4	UA	88	HIS
4	UA	176	GLN
4	UA	226	ASN
4	UA	285	GLN
4	UA	393	HIS
3	UB	89	ASN
3	UB	334	GLN
4	UC	35	GLN
4	UC	88	HIS
4	UC	356	ASN
4	UC	393	HIS
3	UD	195	ASN
3	UD	256	ASN
4	UE	8	HIS
4	UE	88	HIS
4	UE	283	HIS
4	UE	293	ASN
4	UE	372	GLN
3	UF	195	ASN
3	UF	347	ASN
3	UF	426	GLN
4	UG	8	HIS
4	UG	88	HIS
4	UG	283	HIS
4	UG	285	GLN

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Mol	Chain	Res	Type
3	UH	11	GLN
3	UH	195	ASN
3	UH	416	ASN
3	UH	426	GLN
4	UI	8	HIS
4	UI	88	HIS
4	UI	226	ASN
4	UI	283	HIS
4	UI	285	GLN
3	UJ	11	GLN
3	UJ	195	ASN
3	UJ	423	GLN
3	UJ	426	GLN
4	UK	88	HIS
4	UK	91	GLN
4	UK	226	ASN
4	UK	233	GLN
4	UK	283	HIS
4	UK	285	GLN
3	UL	195	ASN
3	UL	256	ASN
3	UL	426	GLN
4	VA	88	HIS
4	VA	91	GLN
4	VA	258	ASN
4	VA	285	GLN
4	VA	293	ASN
4	VA	372	GLN
4	VA	406	HIS
3	VB	8	GLN
3	VB	291	GLN
3	VB	334	GLN
3	VB	424	GLN
3	VB	426	GLN
4	VC	88	HIS
4	VC	91	GLN
4	VC	139	HIS
4	VC	233	GLN
4	VC	285	GLN
3	VD	48	ASN
3	VD	245	GLN
3	VD	416	ASN

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Mol	Chain	Res	Type
3	VD	426	GLN
4	VE	8	HIS
4	VE	88	HIS
4	VE	226	ASN
4	VE	283	HIS
4	VE	285	GLN
4	VE	393	HIS
3	VF	15	GLN
3	VF	195	ASN
3	VF	423	GLN
4	VG	88	HIS
4	VG	285	GLN
4	VG	356	ASN
4	VG	372	GLN
3	VH	11	GLN
3	VH	191	GLN
3	VH	195	ASN
3	VH	256	ASN
3	VH	334	GLN
3	VH	426	GLN
4	VI	88	HIS
4	VI	285	GLN
4	VI	356	ASN
4	VI	372	GLN
3	VJ	8	GLN
3	VJ	43	GLN
3	VJ	195	ASN
4	VK	88	HIS
4	VK	283	HIS
4	VK	293	ASN
4	VK	356	ASN
4	VK	372	GLN
3	VL	14	ASN
3	VL	195	ASN
3	VL	256	ASN
3	VL	334	GLN
3	VL	426	GLN
33	W	175	ASN
33	W	241	GLN
33	W	322	ASN
33	W	323	GLN
33	W	338	GLN

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Mol	Chain	Res	Type
33	W	358	GLN
33	W	386	GLN
4	WA	8	HIS
3	WB	15	GLN
3	WB	94	GLN
3	WB	195	ASN
3	WB	291	GLN
3	WB	334	GLN
3	WB	370	ASN
3	WB	423	GLN
3	WB	426	GLN
4	WC	283	HIS
4	WC	285	GLN
4	WC	293	ASN
3	WD	11	GLN
3	WD	43	GLN
3	WD	347	ASN
3	WD	423	GLN
3	WD	426	GLN
4	WE	226	ASN
4	WE	285	GLN
4	WE	293	ASN
4	WE	356	ASN
4	WE	372	GLN
3	WF	256	ASN
3	WF	334	GLN
3	WF	370	ASN
4	WG	258	ASN
4	WG	285	GLN
4	WG	372	GLN
3	WH	11	GLN
3	WH	195	ASN
3	WH	334	GLN
3	WH	423	GLN
3	WH	426	GLN
3	WJ	11	GLN
3	WJ	195	ASN
3	WJ	423	GLN
3	WJ	426	GLN
4	WK	283	HIS
4	WK	285	GLN
4	WK	372	GLN

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Mol	Chain	Res	Type
3	WL	8	GLN
3	WL	37	HIS
3	WL	195	ASN
3	WL	226	ASN
3	WL	347	ASN
3	WL	426	GLN
33	X	380	GLN
33	X	411	GLN
33	X	440	GLN
34	XA	7	GLN
34	XA	82	ASN
34	XA	135	ASN
34	XA	155	GLN
34	XA	157	HIS
34	XB	33	HIS
34	XB	98	ASN
34	XB	107	ASN
34	XB	135	ASN
34	XB	155	GLN
34	XC	82	ASN
34	XC	98	ASN
34	XC	107	ASN
34	XC	131	GLN
34	XD	82	ASN
34	XD	98	ASN
34	XD	107	ASN
34	XE	98	ASN
34	XF	82	ASN
34	XF	155	GLN
34	XG	98	ASN
34	XG	107	ASN
34	XG	109	GLN
34	XG	159	ASN
35	XH	158	HIS
35	XI	210	GLN
35	XJ	139	ASN
35	XJ	199	GLN
35	XJ	210	GLN
35	XK	124	ASN
35	XK	139	ASN
35	XK	158	HIS
35	XK	188	ASN

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Mol	Chain	Res	Type
35	XK	199	GLN
35	XK	210	GLN
35	XL	71	HIS
35	XL	116	HIS
35	XL	124	ASN
35	XL	210	GLN
35	XM	200	GLN
35	XM	210	GLN
36	Y	40	GLN
36	Y	139	GLN
36	Y	141	HIS
36	Y	182	GLN
37	YA	20	GLN
37	YA	106	GLN
37	YA	165	HIS
37	YB	21	GLN
37	YB	37	HIS
37	YB	59	ASN
37	YB	123	ASN
37	YB	165	HIS
37	YC	20	GLN
37	YC	59	ASN
37	YC	133	HIS
37	YD	13	GLN
37	YD	59	ASN
37	YF	154	HIS
37	YG	55	HIS
37	YG	82	HIS
37	YH	22	GLN
37	YJ	20	GLN
37	YK	13	GLN
37	YK	22	GLN
37	YK	82	HIS
37	YL	22	GLN
37	YM	13	GLN
37	YM	154	HIS
37	YN	59	ASN
37	YO	13	GLN
37	YO	87	HIS
37	YO	123	ASN
37	YP	13	GLN
37	YP	19	GLN

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Mol	Chain	Res	Type
37	YP	22	GLN
37	YP	165	HIS
37	YQ	133	HIS
37	YR	21	GLN
37	YR	55	HIS
37	YT	13	GLN
37	YT	19	GLN
37	YT	20	GLN
37	YT	82	HIS
37	YU	20	GLN
37	YU	21	GLN
37	YU	50	GLN
37	YU	55	HIS
37	YU	123	ASN
37	YU	133	HIS
37	YV	31	HIS
37	YV	55	HIS
37	YV	59	ASN
37	YV	165	HIS
37	YW	123	ASN
36	Z	365	GLN
36	Z	492	GLN
38	a	75	HIS
38	a	87	GLN
38	a	91	GLN

5.3.3 RNA

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

279 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
39	GTP	MB	501	-	33,34,34	0.96	1 (3%)	50,54,54	1.63	9 (18%)
39	GTP	RB	501	-	33,34,34	1.11	5 (15%)	50,54,54	1.84	9 (18%)
39	GTP	QF	501	-	33,34,34	0.98	2 (6%)	50,54,54	1.72	10 (20%)
39	GTP	EA	501	-	33,34,34	1.00	3 (9%)	50,54,54	1.67	12 (24%)
39	GTP	IH	501	-	33,34,34	1.06	4 (12%)	50,54,54	1.74	11 (22%)
39	GTP	JF	501	-	33,34,34	0.90	1 (3%)	50,54,54	1.71	10 (20%)
39	GTP	DB	501	-	33,34,34	1.04	4 (12%)	50,54,54	1.70	9 (18%)
39	GTP	AB	501	-	33,34,34	1.15	4 (12%)	50,54,54	1.75	11 (22%)
39	GTP	FH	501	-	33,34,34	1.26	4 (12%)	50,54,54	1.85	10 (20%)
39	GTP	BB	501	-	33,34,34	1.02	1 (3%)	50,54,54	1.78	11 (22%)
39	GTP	OB	501	-	33,34,34	1.09	4 (12%)	50,54,54	1.69	10 (20%)
39	GTP	OE	501	-	33,34,34	1.04	3 (9%)	50,54,54	1.61	12 (24%)
39	GTP	CB	501	-	33,34,34	1.11	4 (12%)	50,54,54	1.73	11 (22%)
39	GTP	GA	501	-	33,34,34	1.00	4 (12%)	50,54,54	1.61	11 (22%)
39	GTP	HJ	501	-	33,34,34	1.03	3 (9%)	50,54,54	1.67	10 (20%)
39	GTP	HL	501	-	33,34,34	0.95	1 (3%)	50,54,54	1.69	8 (16%)
39	GTP	VI	501	-	33,34,34	1.03	4 (12%)	50,54,54	1.63	12 (24%)
39	GTP	DJ	501	-	33,34,34	1.06	2 (6%)	50,54,54	1.78	11 (22%)
39	GTP	BK	501	-	33,34,34	1.05	3 (9%)	50,54,54	1.65	9 (18%)
39	GTP	FF	501	-	33,34,34	1.02	2 (6%)	50,54,54	1.76	10 (20%)
39	GTP	KK	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.57	10 (20%)
39	GTP	LE	501	-	33,34,34	1.05	4 (12%)	50,54,54	1.61	9 (18%)
39	GTP	JC	501	-	33,34,34	0.93	2 (6%)	50,54,54	1.61	10 (20%)
39	GTP	QJ	501	-	33,34,34	1.00	2 (6%)	50,54,54	1.76	11 (22%)
39	GTP	RK	501	-	33,34,34	0.99	3 (9%)	50,54,54	1.77	14 (28%)
39	GTP	SJ	501	-	33,34,34	0.97	1 (3%)	50,54,54	1.71	9 (18%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
39	GTP	UF	501	-	33,34,34	1.11	4 (12%)	50,54,54	1.81	10 (20%)
39	GTP	LA	501	-	33,34,34	1.02	4 (12%)	50,54,54	1.60	12 (24%)
39	GTP	VA	501	-	33,34,34	1.03	4 (12%)	50,54,54	1.54	10 (20%)
39	GTP	WF	501	-	33,34,34	1.02	3 (9%)	50,54,54	1.66	10 (20%)
39	GTP	RD	501	-	33,34,34	1.00	2 (6%)	50,54,54	1.71	10 (20%)
39	GTP	SK	501	-	33,34,34	1.09	4 (12%)	50,54,54	1.70	10 (20%)
39	GTP	CH	501	-	33,34,34	1.08	3 (9%)	50,54,54	2.00	11 (22%)
39	GTP	KJ	501	-	33,34,34	1.00	1 (3%)	50,54,54	1.65	9 (18%)
39	GTP	TG	501	-	33,34,34	1.05	4 (12%)	50,54,54	1.58	11 (22%)
39	GTP	FC	501	-	33,34,34	1.00	2 (6%)	50,54,54	1.60	13 (26%)
39	GTP	TF	501	-	33,34,34	0.95	1 (3%)	50,54,54	1.67	9 (18%)
39	GTP	FG	501	-	33,34,34	1.04	3 (9%)	50,54,54	1.62	11 (22%)
39	GTP	KA	501	-	33,34,34	1.00	2 (6%)	50,54,54	1.63	13 (26%)
39	GTP	JG	501	-	33,34,34	1.00	2 (6%)	50,54,54	1.73	11 (22%)
39	GTP	SI	501	-	33,34,34	1.04	3 (9%)	50,54,54	1.70	11 (22%)
39	GTP	IL	501	-	33,34,34	1.00	2 (6%)	50,54,54	1.75	9 (18%)
39	GTP	PA	501	-	33,34,34	0.94	3 (9%)	50,54,54	1.65	12 (24%)
39	GTP	TJ	501	-	33,34,34	1.27	4 (12%)	50,54,54	2.09	10 (20%)
39	GTP	TL	501	-	33,34,34	1.50	7 (21%)	50,54,54	2.55	16 (32%)
39	GTP	EL	501	-	33,34,34	1.08	4 (12%)	50,54,54	1.61	9 (18%)
39	GTP	VL	501	-	33,34,34	1.02	2 (6%)	50,54,54	1.67	9 (18%)
39	GTP	KL	501	-	33,34,34	1.01	2 (6%)	50,54,54	1.66	9 (18%)
39	GTP	LD	501	-	33,34,34	1.02	2 (6%)	50,54,54	1.79	11 (22%)
39	GTP	UG	501	-	33,34,34	1.06	3 (9%)	50,54,54	1.61	10 (20%)
39	GTP	CI	501	-	33,34,34	1.01	4 (12%)	50,54,54	1.69	13 (26%)
39	GTP	JJ	501	-	33,34,34	0.98	1 (3%)	50,54,54	1.69	9 (18%)
39	GTP	ND	501	-	33,34,34	1.18	5 (15%)	50,54,54	2.10	14 (28%)
39	GTP	UA	501	-	33,34,34	1.02	4 (12%)	50,54,54	1.66	11 (22%)
39	GTP	TC	501	-	33,34,34	1.08	3 (9%)	50,54,54	1.65	12 (24%)
39	GTP	MK	501	-	33,34,34	1.10	3 (9%)	50,54,54	1.62	10 (20%)
39	GTP	AK	501	-	33,34,34	0.98	3 (9%)	50,54,54	1.56	10 (20%)
39	GTP	IG	501	-	33,34,34	1.02	4 (12%)	50,54,54	1.64	10 (20%)
39	GTP	ML	501	-	33,34,34	1.02	1 (3%)	50,54,54	1.83	11 (22%)
39	GTP	KD	501	-	33,34,34	1.08	3 (9%)	50,54,54	1.63	9 (18%)
39	GTP	GL	501	-	33,34,34	1.13	3 (9%)	50,54,54	1.96	10 (20%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
39	GTP	GJ	501	-	33,34,34	1.00	1 (3%)	50,54,54	1.70	10 (20%)
39	GTP	OH	501	-	33,34,34	0.97	1 (3%)	50,54,54	1.68	9 (18%)
39	GTP	JD	501	-	33,34,34	1.03	3 (9%)	50,54,54	1.73	10 (20%)
39	GTP	CL	501	-	33,34,34	1.31	4 (12%)	50,54,54	2.48	15 (30%)
39	GTP	EE	501	-	33,34,34	1.01	2 (6%)	50,54,54	1.75	15 (30%)
39	GTP	QB	501	-	33,34,34	0.96	1 (3%)	50,54,54	1.71	11 (22%)
39	GTP	SE	501	-	33,34,34	1.00	4 (12%)	50,54,54	1.54	10 (20%)
39	GTP	WJ	501	-	33,34,34	1.01	1 (3%)	50,54,54	1.73	9 (18%)
39	GTP	LF	501	-	33,34,34	0.98	1 (3%)	50,54,54	1.69	10 (20%)
39	GTP	TI	501	-	33,34,34	0.99	3 (9%)	50,54,54	1.67	11 (22%)
39	GTP	DD	501	-	33,34,34	1.05	2 (6%)	50,54,54	1.87	10 (20%)
39	GTP	DE	501	-	33,34,34	1.01	2 (6%)	50,54,54	1.70	11 (22%)
39	GTP	NI	501	-	33,34,34	1.07	3 (9%)	50,54,54	1.74	13 (26%)
39	GTP	PC	501	-	33,34,34	1.06	3 (9%)	50,54,54	1.66	11 (22%)
39	GTP	GH	501	-	33,34,34	1.10	3 (9%)	50,54,54	1.84	11 (22%)
39	GTP	SC	501	-	33,34,34	0.98	2 (6%)	50,54,54	1.60	10 (20%)
39	GTP	LC	501	-	33,34,34	0.99	3 (9%)	50,54,54	1.58	10 (20%)
39	GTP	IA	501	-	33,34,34	0.99	4 (12%)	50,54,54	1.57	11 (22%)
39	GTP	CM	501	-	33,34,34	1.04	3 (9%)	50,54,54	1.65	12 (24%)
39	GTP	PK	501	-	33,34,34	1.21	4 (12%)	50,54,54	1.65	11 (22%)
39	GTP	FK	501	-	33,34,34	1.00	2 (6%)	50,54,54	1.64	12 (24%)
39	GTP	HH	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.65	9 (18%)
39	GTP	LL	501	-	33,34,34	1.04	4 (12%)	50,54,54	1.64	9 (18%)
39	GTP	OA	501	-	33,34,34	0.97	4 (12%)	50,54,54	1.67	13 (26%)
39	GTP	UK	501	-	33,34,34	1.04	4 (12%)	50,54,54	1.65	11 (22%)
39	GTP	PB	501	-	33,34,34	1.00	1 (3%)	50,54,54	1.66	9 (18%)
39	GTP	PE	501	-	33,34,34	1.04	3 (9%)	50,54,54	1.59	11 (22%)
39	GTP	RL	501	-	33,34,34	1.05	4 (12%)	50,54,54	1.73	8 (16%)
39	GTP	BI	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.70	12 (24%)
39	GTP	RH	501	-	33,34,34	0.99	1 (3%)	50,54,54	1.83	10 (20%)
39	GTP	SF	501	-	33,34,34	1.06	4 (12%)	50,54,54	1.77	8 (16%)
39	GTP	CC	501	-	33,34,34	1.08	2 (6%)	50,54,54	1.67	11 (22%)
39	GTP	VG	501	-	33,34,34	1.01	2 (6%)	50,54,54	1.64	14 (28%)
39	GTP	IC	501	-	33,34,34	0.97	1 (3%)	50,54,54	1.83	13 (26%)
39	GTP	GE	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.61	10 (20%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
39	GTP	OL	501	-	33,34,34	0.96	1 (3%)	50,54,54	1.67	9 (18%)
39	GTP	BC	501	-	33,34,34	0.98	3 (9%)	50,54,54	1.68	10 (20%)
39	GTP	UL	501	-	33,34,34	1.02	1 (3%)	50,54,54	1.72	9 (18%)
39	GTP	WK	501	-	33,34,34	1.07	3 (9%)	50,54,54	1.61	12 (24%)
39	GTP	FE	501	-	33,34,34	0.97	2 (6%)	50,54,54	1.65	9 (18%)
39	GTP	DF	501	-	33,34,34	1.07	4 (12%)	50,54,54	1.75	11 (22%)
39	GTP	JH	501	-	33,34,34	1.04	3 (9%)	50,54,54	1.67	9 (18%)
39	GTP	JE	501	-	33,34,34	0.89	3 (9%)	50,54,54	1.74	12 (24%)
39	GTP	DI	501	-	33,34,34	0.95	2 (6%)	50,54,54	1.74	13 (26%)
39	GTP	OI	501	-	33,34,34	1.14	4 (12%)	50,54,54	1.69	12 (24%)
39	GTP	PH	501	-	33,34,34	1.07	2 (6%)	50,54,54	1.86	13 (26%)
39	GTP	UB	501	-	33,34,34	1.07	5 (15%)	50,54,54	1.75	9 (18%)
39	GTP	WI	501	-	33,34,34	1.02	4 (12%)	50,54,54	1.77	14 (28%)
39	GTP	DH	501	-	33,34,34	1.13	4 (12%)	50,54,54	1.72	11 (22%)
39	GTP	SM	501	-	33,34,34	0.95	2 (6%)	50,54,54	1.55	9 (18%)
39	GTP	NC	501	-	33,34,34	1.00	2 (6%)	50,54,54	1.68	12 (24%)
39	GTP	OJ	501	-	33,34,34	0.96	1 (3%)	50,54,54	1.68	9 (18%)
39	GTP	MG	501	-	33,34,34	1.00	4 (12%)	50,54,54	1.61	12 (24%)
39	GTP	QL	501	-	33,34,34	0.98	2 (6%)	50,54,54	1.71	9 (18%)
39	GTP	PM	501	-	33,34,34	1.02	4 (12%)	50,54,54	1.80	16 (32%)
39	GTP	JB	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.71	9 (18%)
39	GTP	NB	501	-	33,34,34	1.03	4 (12%)	50,54,54	1.69	9 (18%)
39	GTP	QD	502	-	33,34,34	1.04	3 (9%)	50,54,54	1.60	10 (20%)
39	GTP	IE	501	-	33,34,34	0.91	2 (6%)	50,54,54	1.80	13 (26%)
39	GTP	LK	501	-	33,34,34	1.00	3 (9%)	50,54,54	1.57	9 (18%)
39	GTP	HG	501	-	33,34,34	1.09	4 (12%)	50,54,54	1.71	12 (24%)
39	GTP	FD	501	-	33,34,34	1.05	2 (6%)	50,54,54	1.81	10 (20%)
39	GTP	LB	501	-	33,34,34	0.97	1 (3%)	50,54,54	1.75	9 (18%)
39	GTP	NJ	501	-	33,34,34	1.05	1 (3%)	50,54,54	1.87	13 (26%)
39	GTP	WB	501	-	33,34,34	1.13	4 (12%)	50,54,54	1.85	11 (22%)
39	GTP	HK	501	-	33,34,34	1.01	4 (12%)	50,54,54	1.68	12 (24%)
39	GTP	BD	501	-	33,34,34	0.92	1 (3%)	50,54,54	1.71	11 (22%)
39	GTP	JL	501	-	33,34,34	0.98	1 (3%)	50,54,54	1.66	9 (18%)
39	GTP	UI	501	-	33,34,34	1.08	4 (12%)	50,54,54	1.85	13 (26%)
39	GTP	FL	501	-	33,34,34	1.16	5 (15%)	50,54,54	1.88	11 (22%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
39	GTP	EK	501	-	33,34,34	1.00	2 (6%)	50,54,54	1.65	11 (22%)
39	GTP	KI	501	-	33,34,34	0.97	3 (9%)	50,54,54	1.70	11 (22%)
39	GTP	NF	501	-	33,34,34	1.03	3 (9%)	50,54,54	1.72	9 (18%)
39	GTP	QC	501	-	33,34,34	1.03	4 (12%)	50,54,54	1.76	13 (26%)
39	GTP	FB	501	-	33,34,34	1.05	4 (12%)	50,54,54	1.66	10 (20%)
39	GTP	LJ	501	-	33,34,34	1.13	4 (12%)	50,54,54	1.89	12 (24%)
39	GTP	CD	501	-	33,34,34	1.08	4 (12%)	50,54,54	1.70	9 (18%)
39	GTP	TM	501	-	33,34,34	1.06	4 (12%)	50,54,54	1.61	10 (20%)
39	GTP	IB	501	-	33,34,34	0.97	1 (3%)	50,54,54	1.68	7 (14%)
39	GTP	JI	501	-	33,34,34	0.97	2 (6%)	50,54,54	1.59	11 (22%)
39	GTP	OK	501	-	33,34,34	0.97	3 (9%)	50,54,54	1.95	14 (28%)
39	GTP	CJ	501	-	33,34,34	0.95	1 (3%)	50,54,54	1.66	7 (14%)
39	GTP	EF	501	-	33,34,34	1.14	4 (12%)	50,54,54	1.96	13 (26%)
39	GTP	PF	501	-	33,34,34	1.02	1 (3%)	50,54,54	1.84	12 (24%)
39	GTP	BG	501	-	33,34,34	1.01	4 (12%)	50,54,54	1.68	10 (20%)
39	GTP	EH	501	-	33,34,34	1.05	4 (12%)	50,54,54	1.65	9 (18%)
39	GTP	BF	501	-	33,34,34	1.01	2 (6%)	50,54,54	1.67	9 (18%)
39	GTP	AL	501	-	33,34,34	1.11	5 (15%)	50,54,54	1.69	9 (18%)
39	GTP	LI	501	-	33,34,34	0.97	4 (12%)	50,54,54	1.79	13 (26%)
39	GTP	KE	501	-	33,34,34	0.99	3 (9%)	50,54,54	1.63	12 (24%)
39	GTP	MC	501	-	33,34,34	1.02	3 (9%)	50,54,54	1.60	11 (22%)
39	GTP	WE	501	-	33,34,34	0.98	1 (3%)	50,54,54	1.78	14 (28%)
39	GTP	GI	501	-	33,34,34	1.05	2 (6%)	50,54,54	1.58	10 (20%)
39	GTP	TE	501	-	33,34,34	1.07	4 (12%)	50,54,54	1.66	11 (22%)
39	GTP	TN	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.67	9 (18%)
39	GTP	TH	501	-	33,34,34	1.01	2 (6%)	50,54,54	1.70	9 (18%)
39	GTP	GF	501	-	33,34,34	1.04	3 (9%)	50,54,54	1.73	11 (22%)
39	GTP	AI	501	-	33,34,34	1.01	2 (6%)	50,54,54	1.61	11 (22%)
39	GTP	VH	501	-	33,34,34	1.05	3 (9%)	50,54,54	1.75	9 (18%)
39	GTP	EI	501	-	33,34,34	1.01	2 (6%)	50,54,54	1.69	11 (22%)
39	GTP	UC	501	-	33,34,34	0.98	2 (6%)	50,54,54	1.64	11 (22%)
39	GTP	CF	501	-	33,34,34	1.00	2 (6%)	50,54,54	1.65	9 (18%)
39	GTP	IF	501	-	33,34,34	1.04	4 (12%)	50,54,54	1.67	10 (20%)
39	GTP	IJ	501	-	33,34,34	1.05	4 (12%)	50,54,54	1.63	11 (22%)
39	GTP	II	501	-	33,34,34	0.95	2 (6%)	50,54,54	1.81	14 (28%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
39	GTP	TK	501	-	33,34,34	1.11	4 (12%)	50,54,54	1.57	10 (20%)
39	GTP	WD	501	-	33,34,34	1.15	4 (12%)	50,54,54	1.72	10 (20%)
39	GTP	RI	501	-	33,34,34	0.97	3 (9%)	50,54,54	1.74	10 (20%)
39	GTP	BJ	501	-	33,34,34	1.17	3 (9%)	50,54,54	3.10	14 (28%)
39	GTP	QL	502	-	33,34,34	1.14	4 (12%)	50,54,54	1.58	10 (20%)
39	GTP	TB	501	-	33,34,34	1.02	3 (9%)	50,54,54	1.69	9 (18%)
39	GTP	KB	501	-	33,34,34	1.24	4 (12%)	50,54,54	1.91	12 (24%)
39	GTP	RF	501	-	33,34,34	0.98	1 (3%)	50,54,54	1.67	9 (18%)
39	GTP	RJ	501	-	33,34,34	0.98	1 (3%)	50,54,54	1.70	10 (20%)
39	GTP	NA	501	-	33,34,34	0.98	4 (12%)	50,54,54	1.66	11 (22%)
39	GTP	EJ	501	-	33,34,34	1.08	4 (12%)	50,54,54	1.68	9 (18%)
39	GTP	MD	501	-	33,34,34	1.08	4 (12%)	50,54,54	1.59	8 (16%)
39	GTP	OG	501	-	33,34,34	1.00	4 (12%)	50,54,54	1.60	11 (22%)
39	GTP	QD	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.68	9 (18%)
39	GTP	VJ	501	-	33,34,34	1.02	3 (9%)	50,54,54	1.69	9 (18%)
39	GTP	BL	501	-	33,34,34	1.05	3 (9%)	50,54,54	1.68	9 (18%)
39	GTP	DC	501	-	33,34,34	0.93	2 (6%)	50,54,54	1.54	12 (24%)
39	GTP	VD	501	-	33,34,34	0.97	1 (3%)	50,54,54	1.68	9 (18%)
39	GTP	CE	501	-	33,34,34	1.01	3 (9%)	50,54,54	1.65	11 (22%)
39	GTP	FA	501	-	33,34,34	0.90	1 (3%)	50,54,54	1.54	12 (24%)
39	GTP	WL	501	-	33,34,34	1.20	4 (12%)	50,54,54	1.70	11 (22%)
39	GTP	IK	501	-	33,34,34	0.96	3 (9%)	50,54,54	1.67	10 (20%)
39	GTP	VF	501	-	33,34,34	1.14	3 (9%)	50,54,54	1.83	12 (24%)
39	GTP	NG	501	-	33,34,34	0.94	2 (6%)	50,54,54	1.68	11 (22%)
39	GTP	AF	501	-	33,34,34	1.04	3 (9%)	50,54,54	1.65	9 (18%)
39	GTP	SG	501	-	33,34,34	1.06	4 (12%)	50,54,54	1.73	12 (24%)
39	GTP	AE	501	-	33,34,34	1.00	2 (6%)	50,54,54	1.66	11 (22%)
39	GTP	GC	501	-	33,34,34	1.01	3 (9%)	50,54,54	1.53	10 (20%)
39	GTP	NL	501	-	33,34,34	1.08	4 (12%)	50,54,54	1.69	10 (20%)
39	GTP	KF	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.82	11 (22%)
39	GTP	PI	501	-	33,34,34	1.01	3 (9%)	50,54,54	1.62	10 (20%)
39	GTP	MD	502	-	33,34,34	0.98	3 (9%)	50,54,54	1.61	12 (24%)
39	GTP	NH	501	-	33,34,34	1.00	2 (6%)	50,54,54	1.71	8 (16%)
39	GTP	HB	501	-	33,34,34	0.98	1 (3%)	50,54,54	1.70	9 (18%)
39	GTP	BE	501	-	33,34,34	1.02	2 (6%)	50,54,54	1.63	10 (20%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
39	GTP	CK	501	-	33,34,34	0.96	2 (6%)	50,54,54	1.71	12 (24%)
39	GTP	DL	501	-	33,34,34	1.00	1 (3%)	50,54,54	1.73	9 (18%)
39	GTP	EB	501	-	33,34,34	1.05	4 (12%)	50,54,54	1.71	11 (22%)
39	GTP	EC	501	-	33,34,34	1.12	3 (9%)	50,54,54	1.80	13 (26%)
39	GTP	KC	501	-	33,34,34	0.95	2 (6%)	50,54,54	1.54	9 (18%)
39	GTP	OC	501	-	33,34,34	1.06	4 (12%)	50,54,54	1.75	12 (24%)
39	GTP	QI	501	-	33,34,34	1.04	3 (9%)	50,54,54	1.80	13 (26%)
39	GTP	UH	501	-	33,34,34	1.03	3 (9%)	50,54,54	1.68	7 (14%)
39	GTP	VK	501	-	33,34,34	0.98	4 (12%)	50,54,54	1.66	11 (22%)
39	GTP	WG	501	-	33,34,34	1.05	3 (9%)	50,54,54	1.63	10 (20%)
39	GTP	AH	501	-	33,34,34	0.89	1 (3%)	50,54,54	1.69	9 (18%)
39	GTP	BM	501	-	33,34,34	1.18	3 (9%)	50,54,54	2.24	20 (40%)
39	GTP	WC	501	-	33,34,34	1.02	4 (12%)	50,54,54	1.63	11 (22%)
39	GTP	FJ	501	-	33,34,34	1.01	2 (6%)	50,54,54	1.87	11 (22%)
39	GTP	SL	501	-	33,34,34	1.03	2 (6%)	50,54,54	1.75	9 (18%)
39	GTP	HD	501	-	33,34,34	1.03	2 (6%)	50,54,54	1.68	9 (18%)
39	GTP	HF	501	-	33,34,34	0.99	2 (6%)	50,54,54	1.60	8 (16%)
39	GTP	DK	501	-	33,34,34	1.06	2 (6%)	50,54,54	1.83	16 (32%)
39	GTP	IM	501	-	33,34,34	0.96	2 (6%)	50,54,54	1.72	14 (28%)
39	GTP	UE	501	-	33,34,34	1.05	3 (9%)	50,54,54	1.62	12 (24%)
39	GTP	EG	501	-	33,34,34	0.91	2 (6%)	50,54,54	1.80	12 (24%)
39	GTP	FI	501	-	33,34,34	0.93	2 (6%)	50,54,54	1.57	9 (18%)
39	GTP	OF	501	-	33,34,34	1.16	4 (12%)	50,54,54	1.68	10 (20%)
39	GTP	MJ	501	-	33,34,34	1.07	3 (9%)	50,54,54	1.67	9 (18%)
39	GTP	QK	501	-	33,34,34	0.95	2 (6%)	50,54,54	1.53	10 (20%)
39	GTP	VC	501	-	33,34,34	1.01	3 (9%)	50,54,54	1.83	15 (30%)
39	GTP	SD	501	-	33,34,34	1.09	4 (12%)	50,54,54	1.69	9 (18%)
39	GTP	PD	501	-	33,34,34	1.16	4 (12%)	50,54,54	2.14	12 (24%)
39	GTP	JK	501	-	33,34,34	0.97	3 (9%)	50,54,54	1.59	10 (20%)
39	GTP	GD	501	-	33,34,34	1.05	4 (12%)	50,54,54	1.75	9 (18%)
39	GTP	MI	501	-	33,34,34	0.96	3 (9%)	50,54,54	1.60	11 (22%)
39	GTP	MH	501	-	33,34,34	0.97	1 (3%)	50,54,54	1.70	10 (20%)
39	GTP	ED	501	-	33,34,34	1.01	1 (3%)	50,54,54	1.75	10 (20%)
39	GTP	DA	501	-	33,34,34	0.99	4 (12%)	50,54,54	1.57	10 (20%)
39	GTP	HA	501	-	33,34,34	1.03	3 (9%)	50,54,54	1.61	11 (22%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
39	GTP	LG	501	-	33,34,34	1.00	3 (9%)	50,54,54	1.57	10 (20%)
39	GTP	VE	501	-	33,34,34	1.06	4 (12%)	50,54,54	1.89	14 (28%)
39	GTP	WH	501	-	33,34,34	1.04	1 (3%)	50,54,54	1.77	11 (22%)
39	GTP	AD	501	-	33,34,34	1.02	3 (9%)	50,54,54	1.61	10 (20%)
39	GTP	PL	501	-	33,34,34	1.14	4 (12%)	50,54,54	1.82	12 (24%)
39	GTP	AG	501	-	33,34,34	1.04	4 (12%)	50,54,54	1.61	12 (24%)
39	GTP	WA	501	-	33,34,34	0.99	4 (12%)	50,54,54	1.57	11 (22%)
39	GTP	UJ	501	-	33,34,34	0.98	1 (3%)	50,54,54	1.69	9 (18%)
39	GTP	GK	501	-	33,34,34	1.02	3 (9%)	50,54,54	1.76	13 (26%)
39	GTP	QH	501	-	33,34,34	0.98	2 (6%)	50,54,54	1.72	10 (20%)
39	GTP	MM	501	-	33,34,34	0.96	3 (9%)	50,54,54	1.67	12 (24%)
39	GTP	RC	501	-	33,34,34	1.06	3 (9%)	50,54,54	1.64	11 (22%)
39	GTP	NK	501	-	33,34,34	1.02	4 (12%)	50,54,54	1.58	10 (20%)
39	GTP	SH	501	-	33,34,34	1.00	3 (9%)	50,54,54	1.70	9 (18%)
39	GTP	LH	501	-	33,34,34	1.06	3 (9%)	50,54,54	1.72	9 (18%)
39	GTP	MF	501	-	33,34,34	1.04	4 (12%)	50,54,54	1.65	10 (20%)
39	GTP	HI	501	-	33,34,34	1.11	2 (6%)	50,54,54	1.66	12 (24%)
39	GTP	RG	501	-	33,34,34	1.03	4 (12%)	50,54,54	1.60	11 (22%)
39	GTP	HE	501	-	33,34,34	0.98	4 (12%)	50,54,54	1.79	14 (28%)
39	GTP	AJ	501	-	33,34,34	1.06	3 (9%)	50,54,54	1.77	11 (22%)
39	GTP	ID	501	-	33,34,34	1.04	4 (12%)	50,54,54	1.77	11 (22%)
39	GTP	OD	501	-	33,34,34	1.19	4 (12%)	50,54,54	1.72	11 (22%)
39	GTP	AC	501	-	33,34,34	0.96	3 (9%)	50,54,54	1.67	11 (22%)
39	GTP	HC	501	-	33,34,34	0.93	1 (3%)	50,54,54	1.74	16 (32%)
39	GTP	KG	501	-	33,34,34	1.02	4 (12%)	50,54,54	1.63	11 (22%)
39	GTP	RE	501	-	33,34,34	0.97	3 (9%)	50,54,54	1.55	11 (22%)
39	GTP	NE	501	-	33,34,34	1.00	3 (9%)	50,54,54	1.58	9 (18%)
39	GTP	PJ	501	-	33,34,34	1.04	2 (6%)	50,54,54	1.83	10 (20%)
39	GTP	BH	501	-	33,34,34	0.98	1 (3%)	50,54,54	1.73	10 (20%)
39	GTP	RM	501	-	33,34,34	1.05	4 (12%)	50,54,54	1.59	12 (24%)
39	GTP	TD	501	-	33,34,34	1.02	2 (6%)	50,54,54	1.73	9 (18%)
39	GTP	UD	501	-	33,34,34	0.97	1 (3%)	50,54,54	1.67	9 (18%)
39	GTP	GB	501	-	33,34,34	1.27	6 (18%)	50,54,54	1.96	11 (22%)
39	GTP	QG	501	-	33,34,34	1.16	4 (12%)	50,54,54	1.78	10 (20%)
39	GTP	VB	501	-	33,34,34	0.97	1 (3%)	50,54,54	1.75	10 (20%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
39	GTP	CG	501	-	33,34,34	1.06	3 (9%)	50,54,54	1.65	12 (24%)
39	GTP	JA	501	-	33,34,34	1.04	4 (12%)	50,54,54	1.60	11 (22%)
39	GTP	PG	501	-	33,34,34	1.11	4 (12%)	50,54,54	1.62	11 (22%)
39	GTP	AM	501	-	33,34,34	0.97	1 (3%)	50,54,54	1.65	12 (24%)
39	GTP	DG	501	-	33,34,34	1.00	4 (12%)	50,54,54	1.65	11 (22%)
39	GTP	GG	501	-	33,34,34	1.01	3 (9%)	50,54,54	1.59	11 (22%)
39	GTP	KH	501	-	33,34,34	1.11	3 (9%)	50,54,54	1.85	14 (28%)
39	GTP	SB	501	-	33,34,34	1.11	2 (6%)	50,54,54	1.94	11 (22%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
39	GTP	MB	501	-	-	8/22/38/38	0/3/3/3
39	GTP	RB	501	-	-	5/22/38/38	0/3/3/3
39	GTP	QF	501	-	-	8/22/38/38	0/3/3/3
39	GTP	EA	501	-	-	6/22/38/38	0/3/3/3
39	GTP	IH	501	-	-	8/22/38/38	0/3/3/3
39	GTP	JF	501	-	-	6/22/38/38	0/3/3/3
39	GTP	DB	501	-	-	4/22/38/38	0/3/3/3
39	GTP	AB	501	-	-	9/22/38/38	0/3/3/3
39	GTP	FH	501	-	-	5/22/38/38	0/3/3/3
39	GTP	BB	501	-	-	2/22/38/38	0/3/3/3
39	GTP	OB	501	-	-	9/22/38/38	0/3/3/3
39	GTP	OE	501	-	-	6/22/38/38	0/3/3/3
39	GTP	CB	501	-	-	6/22/38/38	0/3/3/3
39	GTP	GA	501	-	-	7/22/38/38	0/3/3/3
39	GTP	HJ	501	-	-	8/22/38/38	0/3/3/3
39	GTP	HL	501	-	-	4/22/38/38	0/3/3/3
39	GTP	VI	501	-	-	9/22/38/38	0/3/3/3
39	GTP	DJ	501	-	-	6/22/38/38	0/3/3/3
39	GTP	BK	501	-	-	4/22/38/38	0/3/3/3
39	GTP	FF	501	-	-	7/22/38/38	0/3/3/3
39	GTP	KK	501	-	-	8/22/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
39	GTP	LE	501	-	-	6/22/38/38	0/3/3/3
39	GTP	JC	501	-	-	4/22/38/38	0/3/3/3
39	GTP	QJ	501	-	-	3/22/38/38	0/3/3/3
39	GTP	RK	501	-	-	5/22/38/38	0/3/3/3
39	GTP	SJ	501	-	-	2/22/38/38	0/3/3/3
39	GTP	UF	501	-	-	5/22/38/38	0/3/3/3
39	GTP	LA	501	-	-	8/22/38/38	0/3/3/3
39	GTP	VA	501	-	-	8/22/38/38	0/3/3/3
39	GTP	WF	501	-	-	10/22/38/38	0/3/3/3
39	GTP	RD	501	-	-	8/22/38/38	0/3/3/3
39	GTP	SK	501	-	-	10/22/38/38	0/3/3/3
39	GTP	CH	501	-	-	4/22/38/38	0/3/3/3
39	GTP	KJ	501	-	-	10/22/38/38	0/3/3/3
39	GTP	TG	501	-	-	7/22/38/38	0/3/3/3
39	GTP	FC	501	-	-	9/22/38/38	0/3/3/3
39	GTP	TF	501	-	-	5/22/38/38	0/3/3/3
39	GTP	FG	501	-	-	8/22/38/38	0/3/3/3
39	GTP	KA	501	-	-	9/22/38/38	0/3/3/3
39	GTP	JG	501	-	-	7/22/38/38	0/3/3/3
39	GTP	SI	501	-	-	7/22/38/38	0/3/3/3
39	GTP	IL	501	-	-	3/22/38/38	0/3/3/3
39	GTP	PA	501	-	-	5/22/38/38	0/3/3/3
39	GTP	TJ	501	-	-	3/22/38/38	0/3/3/3
39	GTP	TL	501	-	-	6/22/38/38	0/3/3/3
39	GTP	EL	501	-	-	7/22/38/38	0/3/3/3
39	GTP	VL	501	-	-	9/22/38/38	0/3/3/3
39	GTP	KL	501	-	-	9/22/38/38	0/3/3/3
39	GTP	LD	501	-	-	3/22/38/38	0/3/3/3
39	GTP	UG	501	-	-	5/22/38/38	0/3/3/3
39	GTP	CI	501	-	-	12/22/38/38	0/3/3/3
39	GTP	JJ	501	-	-	6/22/38/38	0/3/3/3
39	GTP	ND	501	-	-	3/22/38/38	0/3/3/3
39	GTP	UA	501	-	-	6/22/38/38	0/3/3/3
39	GTP	TC	501	-	-	7/22/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
39	GTP	MK	501	-	-	5/22/38/38	0/3/3/3
39	GTP	AK	501	-	-	5/22/38/38	0/3/3/3
39	GTP	IG	501	-	-	5/22/38/38	0/3/3/3
39	GTP	ML	501	-	-	4/22/38/38	0/3/3/3
39	GTP	KD	501	-	-	7/22/38/38	0/3/3/3
39	GTP	GL	501	-	-	2/22/38/38	0/3/3/3
39	GTP	GJ	501	-	-	7/22/38/38	0/3/3/3
39	GTP	OH	501	-	-	7/22/38/38	0/3/3/3
39	GTP	JD	501	-	-	11/22/38/38	0/3/3/3
39	GTP	CL	501	-	-	4/22/38/38	0/3/3/3
39	GTP	EE	501	-	-	5/22/38/38	0/3/3/3
39	GTP	QB	501	-	-	6/22/38/38	0/3/3/3
39	GTP	SE	501	-	-	7/22/38/38	0/3/3/3
39	GTP	WJ	501	-	-	7/22/38/38	0/3/3/3
39	GTP	LF	501	-	-	7/22/38/38	0/3/3/3
39	GTP	TI	501	-	-	7/22/38/38	0/3/3/3
39	GTP	DD	501	-	-	4/22/38/38	0/3/3/3
39	GTP	DE	501	-	-	8/22/38/38	0/3/3/3
39	GTP	NI	501	-	-	10/22/38/38	0/3/3/3
39	GTP	PC	501	-	-	9/22/38/38	0/3/3/3
39	GTP	GH	501	-	-	7/22/38/38	0/3/3/3
39	GTP	SC	501	-	-	7/22/38/38	0/3/3/3
39	GTP	LC	501	-	-	7/22/38/38	0/3/3/3
39	GTP	IA	501	-	-	5/22/38/38	0/3/3/3
39	GTP	CM	501	-	-	7/22/38/38	0/3/3/3
39	GTP	PK	501	-	-	5/22/38/38	0/3/3/3
39	GTP	FK	501	-	-	7/22/38/38	0/3/3/3
39	GTP	HH	501	-	-	9/22/38/38	0/3/3/3
39	GTP	LL	501	-	-	9/22/38/38	0/3/3/3
39	GTP	OA	501	-	-	5/22/38/38	0/3/3/3
39	GTP	UK	501	-	-	7/22/38/38	0/3/3/3
39	GTP	PB	501	-	-	9/22/38/38	0/3/3/3
39	GTP	PE	501	-	-	6/22/38/38	0/3/3/3
39	GTP	RL	501	-	-	9/22/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
39	GTP	BI	501	-	-	6/22/38/38	0/3/3/3
39	GTP	RH	501	-	-	7/22/38/38	0/3/3/3
39	GTP	SF	501	-	-	2/22/38/38	0/3/3/3
39	GTP	CC	501	-	-	12/22/38/38	0/3/3/3
39	GTP	VG	501	-	-	9/22/38/38	0/3/3/3
39	GTP	IC	501	-	-	5/22/38/38	0/3/3/3
39	GTP	GE	501	-	-	7/22/38/38	0/3/3/3
39	GTP	OL	501	-	-	8/22/38/38	0/3/3/3
39	GTP	BC	501	-	-	9/22/38/38	0/3/3/3
39	GTP	UL	501	-	-	7/22/38/38	0/3/3/3
39	GTP	WK	501	-	-	10/22/38/38	0/3/3/3
39	GTP	FE	501	-	-	5/22/38/38	0/3/3/3
39	GTP	DF	501	-	-	10/22/38/38	0/3/3/3
39	GTP	JH	501	-	-	8/22/38/38	0/3/3/3
39	GTP	JE	501	-	-	7/22/38/38	0/3/3/3
39	GTP	DI	501	-	-	7/22/38/38	0/3/3/3
39	GTP	OI	501	-	-	8/22/38/38	0/3/3/3
39	GTP	PH	501	-	-	3/22/38/38	0/3/3/3
39	GTP	UB	501	-	-	9/22/38/38	0/3/3/3
39	GTP	WI	501	-	-	5/22/38/38	0/3/3/3
39	GTP	DH	501	-	-	8/22/38/38	0/3/3/3
39	GTP	SM	501	-	-	5/22/38/38	0/3/3/3
39	GTP	NC	501	-	-	7/22/38/38	0/3/3/3
39	GTP	OJ	501	-	-	7/22/38/38	0/3/3/3
39	GTP	MG	501	-	-	9/22/38/38	0/3/3/3
39	GTP	QL	501	-	-	8/22/38/38	0/3/3/3
39	GTP	PM	501	-	-	7/22/38/38	0/3/3/3
39	GTP	JB	501	-	-	5/22/38/38	0/3/3/3
39	GTP	NB	501	-	-	8/22/38/38	0/3/3/3
39	GTP	QD	502	-	-	7/22/38/38	0/3/3/3
39	GTP	IE	501	-	-	7/22/38/38	0/3/3/3
39	GTP	LK	501	-	-	5/22/38/38	0/3/3/3
39	GTP	HG	501	-	-	7/22/38/38	0/3/3/3
39	GTP	FD	501	-	-	5/22/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
39	GTP	LB	501	-	-	2/22/38/38	0/3/3/3
39	GTP	NJ	501	-	-	3/22/38/38	0/3/3/3
39	GTP	WB	501	-	-	5/22/38/38	0/3/3/3
39	GTP	HK	501	-	-	7/22/38/38	0/3/3/3
39	GTP	BD	501	-	-	3/22/38/38	0/3/3/3
39	GTP	JL	501	-	-	7/22/38/38	0/3/3/3
39	GTP	UI	501	-	-	6/22/38/38	0/3/3/3
39	GTP	FL	501	-	-	7/22/38/38	0/3/3/3
39	GTP	EK	501	-	-	8/22/38/38	0/3/3/3
39	GTP	KI	501	-	-	5/22/38/38	0/3/3/3
39	GTP	NF	501	-	-	8/22/38/38	0/3/3/3
39	GTP	QC	501	-	-	7/22/38/38	0/3/3/3
39	GTP	FB	501	-	-	10/22/38/38	0/3/3/3
39	GTP	LJ	501	-	-	8/22/38/38	0/3/3/3
39	GTP	CD	501	-	-	7/22/38/38	0/3/3/3
39	GTP	TM	501	-	-	6/22/38/38	0/3/3/3
39	GTP	IB	501	-	-	7/22/38/38	0/3/3/3
39	GTP	JI	501	-	-	6/22/38/38	0/3/3/3
39	GTP	OK	501	-	-	6/22/38/38	0/3/3/3
39	GTP	CJ	501	-	-	6/22/38/38	0/3/3/3
39	GTP	EF	501	-	-	4/22/38/38	0/3/3/3
39	GTP	PF	501	-	-	3/22/38/38	0/3/3/3
39	GTP	BG	501	-	-	7/22/38/38	0/3/3/3
39	GTP	EH	501	-	-	8/22/38/38	0/3/3/3
39	GTP	BF	501	-	-	10/22/38/38	0/3/3/3
39	GTP	AL	501	-	-	6/22/38/38	0/3/3/3
39	GTP	LI	501	-	-	7/22/38/38	0/3/3/3
39	GTP	KE	501	-	-	8/22/38/38	0/3/3/3
39	GTP	MC	501	-	-	6/22/38/38	0/3/3/3
39	GTP	WE	501	-	-	10/22/38/38	0/3/3/3
39	GTP	GI	501	-	-	10/22/38/38	0/3/3/3
39	GTP	TE	501	-	-	7/22/38/38	0/3/3/3
39	GTP	TN	501	-	-	10/22/38/38	0/3/3/3
39	GTP	TH	501	-	-	8/22/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
39	GTP	GF	501	-	-	3/22/38/38	0/3/3/3
39	GTP	AI	501	-	-	7/22/38/38	0/3/3/3
39	GTP	VH	501	-	-	4/22/38/38	0/3/3/3
39	GTP	EI	501	-	-	7/22/38/38	0/3/3/3
39	GTP	UC	501	-	-	8/22/38/38	0/3/3/3
39	GTP	CF	501	-	-	9/22/38/38	0/3/3/3
39	GTP	IF	501	-	-	10/22/38/38	0/3/3/3
39	GTP	IJ	501	-	-	10/22/38/38	0/3/3/3
39	GTP	II	501	-	-	7/22/38/38	0/3/3/3
39	GTP	TK	501	-	-	8/22/38/38	0/3/3/3
39	GTP	WD	501	-	-	7/22/38/38	0/3/3/3
39	GTP	RI	501	-	-	9/22/38/38	0/3/3/3
39	GTP	BJ	501	-	-	5/22/38/38	0/3/3/3
39	GTP	QL	502	-	-	7/22/38/38	0/3/3/3
39	GTP	TB	501	-	-	10/22/38/38	0/3/3/3
39	GTP	KB	501	-	-	7/22/38/38	0/3/3/3
39	GTP	RF	501	-	-	7/22/38/38	0/3/3/3
39	GTP	RJ	501	-	-	5/22/38/38	0/3/3/3
39	GTP	NA	501	-	-	5/22/38/38	0/3/3/3
39	GTP	EJ	501	-	-	6/22/38/38	0/3/3/3
39	GTP	MD	501	-	-	9/22/38/38	0/3/3/3
39	GTP	OG	501	-	-	10/22/38/38	0/3/3/3
39	GTP	QD	501	-	-	5/22/38/38	0/3/3/3
39	GTP	VJ	501	-	-	8/22/38/38	0/3/3/3
39	GTP	BL	501	-	-	9/22/38/38	0/3/3/3
39	GTP	DC	501	-	-	8/22/38/38	0/3/3/3
39	GTP	VD	501	-	-	9/22/38/38	0/3/3/3
39	GTP	CE	501	-	-	5/22/38/38	0/3/3/3
39	GTP	FA	501	-	-	5/22/38/38	0/3/3/3
39	GTP	WL	501	-	-	9/22/38/38	0/3/3/3
39	GTP	IK	501	-	-	5/22/38/38	0/3/3/3
39	GTP	VF	501	-	-	5/22/38/38	0/3/3/3
39	GTP	NG	501	-	-	6/22/38/38	0/3/3/3
39	GTP	AF	501	-	-	9/22/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
39	GTP	SG	501	-	-	8/22/38/38	0/3/3/3
39	GTP	AE	501	-	-	8/22/38/38	0/3/3/3
39	GTP	GC	501	-	-	5/22/38/38	0/3/3/3
39	GTP	NL	501	-	-	2/22/38/38	0/3/3/3
39	GTP	KF	501	-	-	5/22/38/38	0/3/3/3
39	GTP	PI	501	-	-	8/22/38/38	0/3/3/3
39	GTP	MD	502	-	-	9/22/38/38	0/3/3/3
39	GTP	NH	501	-	-	9/22/38/38	0/3/3/3
39	GTP	HB	501	-	-	8/22/38/38	0/3/3/3
39	GTP	BE	501	-	-	7/22/38/38	0/3/3/3
39	GTP	CK	501	-	-	6/22/38/38	0/3/3/3
39	GTP	DL	501	-	-	6/22/38/38	0/3/3/3
39	GTP	EB	501	-	-	7/22/38/38	0/3/3/3
39	GTP	EC	501	-	-	7/22/38/38	0/3/3/3
39	GTP	KC	501	-	-	8/22/38/38	0/3/3/3
39	GTP	OC	501	-	-	8/22/38/38	0/3/3/3
39	GTP	QI	501	-	-	8/22/38/38	0/3/3/3
39	GTP	UH	501	-	-	7/22/38/38	0/3/3/3
39	GTP	VK	501	-	-	5/22/38/38	0/3/3/3
39	GTP	WG	501	-	-	7/22/38/38	0/3/3/3
39	GTP	AH	501	-	-	6/22/38/38	0/3/3/3
39	GTP	BM	501	-	-	9/22/38/38	0/3/3/3
39	GTP	WC	501	-	-	5/22/38/38	0/3/3/3
39	GTP	FJ	501	-	-	4/22/38/38	0/3/3/3
39	GTP	SL	501	-	-	9/22/38/38	0/3/3/3
39	GTP	HD	501	-	-	8/22/38/38	0/3/3/3
39	GTP	HF	501	-	-	6/22/38/38	0/3/3/3
39	GTP	DK	501	-	-	5/22/38/38	0/3/3/3
39	GTP	IM	501	-	-	8/22/38/38	0/3/3/3
39	GTP	UE	501	-	-	6/22/38/38	0/3/3/3
39	GTP	EG	501	-	-	5/22/38/38	0/3/3/3
39	GTP	FI	501	-	-	6/22/38/38	0/3/3/3
39	GTP	OF	501	-	-	9/22/38/38	0/3/3/3
39	GTP	MJ	501	-	-	9/22/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
39	GTP	QK	501	-	-	8/22/38/38	0/3/3/3
39	GTP	VC	501	-	-	7/22/38/38	0/3/3/3
39	GTP	SD	501	-	-	7/22/38/38	0/3/3/3
39	GTP	PD	501	-	-	4/22/38/38	0/3/3/3
39	GTP	JK	501	-	-	5/22/38/38	0/3/3/3
39	GTP	GD	501	-	-	8/22/38/38	0/3/3/3
39	GTP	MI	501	-	-	4/22/38/38	0/3/3/3
39	GTP	MH	501	-	-	4/22/38/38	0/3/3/3
39	GTP	ED	501	-	-	9/22/38/38	0/3/3/3
39	GTP	DA	501	-	-	9/22/38/38	0/3/3/3
39	GTP	HA	501	-	-	8/22/38/38	0/3/3/3
39	GTP	LG	501	-	-	7/22/38/38	0/3/3/3
39	GTP	VE	501	-	-	6/22/38/38	0/3/3/3
39	GTP	WH	501	-	-	9/22/38/38	0/3/3/3
39	GTP	AD	501	-	-	4/22/38/38	0/3/3/3
39	GTP	PL	501	-	-	5/22/38/38	0/3/3/3
39	GTP	AG	501	-	-	6/22/38/38	0/3/3/3
39	GTP	WA	501	-	-	8/22/38/38	0/3/3/3
39	GTP	UJ	501	-	-	8/22/38/38	0/3/3/3
39	GTP	GK	501	-	-	6/22/38/38	0/3/3/3
39	GTP	QH	501	-	-	5/22/38/38	0/3/3/3
39	GTP	MM	501	-	-	6/22/38/38	0/3/3/3
39	GTP	RC	501	-	-	7/22/38/38	0/3/3/3
39	GTP	NK	501	-	-	7/22/38/38	0/3/3/3
39	GTP	SH	501	-	-	9/22/38/38	0/3/3/3
39	GTP	LH	501	-	-	7/22/38/38	0/3/3/3
39	GTP	MF	501	-	-	9/22/38/38	0/3/3/3
39	GTP	HI	501	-	-	8/22/38/38	0/3/3/3
39	GTP	RG	501	-	-	8/22/38/38	0/3/3/3
39	GTP	HE	501	-	-	8/22/38/38	0/3/3/3
39	GTP	AJ	501	-	-	4/22/38/38	0/3/3/3
39	GTP	ID	501	-	-	3/22/38/38	0/3/3/3
39	GTP	OD	501	-	-	9/22/38/38	0/3/3/3
39	GTP	AC	501	-	-	10/22/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
39	GTP	HC	501	-	-	5/22/38/38	0/3/3/3
39	GTP	KG	501	-	-	7/22/38/38	0/3/3/3
39	GTP	RE	501	-	-	5/22/38/38	0/3/3/3
39	GTP	NE	501	-	-	10/22/38/38	0/3/3/3
39	GTP	PJ	501	-	-	3/22/38/38	0/3/3/3
39	GTP	BH	501	-	-	4/22/38/38	0/3/3/3
39	GTP	RM	501	-	-	8/22/38/38	0/3/3/3
39	GTP	TD	501	-	-	5/22/38/38	0/3/3/3
39	GTP	UD	501	-	-	8/22/38/38	0/3/3/3
39	GTP	GB	501	-	-	4/22/38/38	0/3/3/3
39	GTP	QG	501	-	-	9/22/38/38	0/3/3/3
39	GTP	VB	501	-	-	6/22/38/38	0/3/3/3
39	GTP	CG	501	-	-	7/22/38/38	0/3/3/3
39	GTP	JA	501	-	-	9/22/38/38	0/3/3/3
39	GTP	PG	501	-	-	8/22/38/38	0/3/3/3
39	GTP	AM	501	-	-	4/22/38/38	0/3/3/3
39	GTP	DG	501	-	-	9/22/38/38	0/3/3/3
39	GTP	GG	501	-	-	7/22/38/38	0/3/3/3
39	GTP	KH	501	-	-	8/22/38/38	0/3/3/3
39	GTP	SB	501	-	-	3/22/38/38	0/3/3/3

All (784) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	TL	501	GTP	C2-N3	4.58	1.44	1.33
39	HI	501	GTP	PB-O3B	3.84	1.63	1.59
39	PK	501	GTP	PB-O3B	3.73	1.63	1.59
39	PD	501	GTP	C2-N3	3.66	1.42	1.33
39	TJ	501	GTP	C2-N3	3.61	1.41	1.33
39	BM	501	GTP	PB-O3A	3.46	1.63	1.59
39	CC	501	GTP	PB-O3A	3.43	1.63	1.59
39	MK	501	GTP	PB-O3B	3.41	1.63	1.59
39	CL	501	GTP	C2-N3	3.40	1.41	1.33
39	GB	501	GTP	C2-N3	3.40	1.41	1.33
39	NI	501	GTP	PB-O3A	3.30	1.63	1.59
39	GL	501	GTP	C2-N3	3.29	1.41	1.33
39	OI	501	GTP	PB-O3A	3.28	1.63	1.59
39	SB	501	GTP	C2-N3	3.26	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	QL	502	GTP	PB-O3A	3.23	1.63	1.59
39	QG	501	GTP	PB-O3A	3.22	1.63	1.59
39	KB	501	GTP	PB-O3B	3.19	1.62	1.59
39	OD	501	GTP	PB-O3B	3.17	1.62	1.59
39	EC	501	GTP	PB-O3A	3.13	1.62	1.59
39	RC	501	GTP	PB-O3A	3.13	1.62	1.59
39	FG	501	GTP	PB-O3A	3.12	1.62	1.59
39	GI	501	GTP	PB-O3B	3.10	1.62	1.59
39	FH	501	GTP	C2-N3	3.09	1.40	1.33
39	ND	501	GTP	C2-N3	3.09	1.40	1.33
39	EF	501	GTP	C2-N3	3.08	1.40	1.33
39	TM	501	GTP	PB-O3A	3.08	1.62	1.59
39	WD	501	GTP	PB-O3B	3.08	1.62	1.59
39	EE	501	GTP	PB-O3A	3.08	1.62	1.59
39	UG	501	GTP	PB-O3A	3.08	1.62	1.59
39	TL	501	GTP	C4-N3	3.06	1.41	1.34
39	TC	501	GTP	PB-O3A	3.06	1.62	1.59
39	KB	501	GTP	C2-N3	3.05	1.40	1.33
39	SG	501	GTP	PB-O3A	3.04	1.62	1.59
39	WL	501	GTP	PA-O3A	3.04	1.62	1.59
39	IG	501	GTP	PB-O3A	3.03	1.62	1.59
39	OI	501	GTP	PB-O3B	3.03	1.62	1.59
39	QD	502	GTP	PB-O3B	3.03	1.62	1.59
39	FL	501	GTP	C2-N3	3.02	1.40	1.33
39	IC	501	GTP	PB-O3A	3.01	1.62	1.59
39	WL	501	GTP	PB-O3B	2.99	1.62	1.59
39	VG	501	GTP	PB-O3B	2.98	1.62	1.59
39	PK	501	GTP	PB-O3A	2.98	1.62	1.59
39	PH	501	GTP	C2-N3	2.98	1.40	1.33
39	EI	501	GTP	PB-O3A	2.97	1.62	1.59
39	KG	501	GTP	PB-O3A	2.96	1.62	1.59
39	DD	501	GTP	C2-N3	2.96	1.40	1.33
39	DJ	501	GTP	C2-N3	2.96	1.40	1.33
39	GH	501	GTP	C2-N3	2.95	1.40	1.33
39	JA	501	GTP	PB-O3A	2.94	1.62	1.59
39	TK	501	GTP	PB-O3A	2.94	1.62	1.59
39	NJ	501	GTP	C2-N3	2.94	1.40	1.33
39	CM	501	GTP	PB-O3A	2.94	1.62	1.59
39	WH	501	GTP	C2-N3	2.93	1.40	1.33
39	OF	501	GTP	PB-O3B	2.93	1.62	1.59
39	FH	501	GTP	C5-N7	-2.93	1.33	1.39
39	PC	501	GTP	PB-O3A	2.93	1.62	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	DK	501	GTP	PB-O3A	2.93	1.62	1.59
39	TE	501	GTP	PB-O3A	2.93	1.62	1.59
39	OD	501	GTP	PA-O3A	2.93	1.62	1.59
39	PL	501	GTP	C2-N3	2.92	1.40	1.33
39	BK	501	GTP	PB-O3A	2.92	1.62	1.59
39	UK	501	GTP	PB-O3A	2.92	1.62	1.59
39	FK	501	GTP	PB-O3A	2.91	1.62	1.59
39	GE	501	GTP	PB-O3A	2.91	1.62	1.59
39	OE	501	GTP	PB-O3B	2.90	1.62	1.59
39	PG	501	GTP	PB-O3B	2.90	1.62	1.59
39	PE	501	GTP	PB-O3A	2.89	1.62	1.59
39	TG	501	GTP	PB-O3A	2.89	1.62	1.59
39	BJ	501	GTP	C2-N3	2.87	1.40	1.33
39	OF	501	GTP	PA-O3A	2.86	1.62	1.59
39	PG	501	GTP	PB-O3A	2.86	1.62	1.59
39	CB	501	GTP	PB-O3B	2.85	1.62	1.59
39	ND	501	GTP	PB-O3B	2.85	1.62	1.59
39	DF	501	GTP	C2-N3	2.85	1.40	1.33
39	KH	501	GTP	C2-N3	2.85	1.40	1.33
39	FJ	501	GTP	C2-N3	2.85	1.40	1.33
39	DH	501	GTP	PB-O3B	2.85	1.62	1.59
39	KE	501	GTP	PB-O3B	2.84	1.62	1.59
39	UE	501	GTP	PB-O3B	2.84	1.62	1.59
39	VI	501	GTP	PB-O3A	2.84	1.62	1.59
39	AB	501	GTP	C2-N3	2.83	1.40	1.33
39	WL	501	GTP	PB-O3A	2.83	1.62	1.59
39	VF	501	GTP	PB-O3B	2.83	1.62	1.59
39	WC	501	GTP	PB-O3A	2.82	1.62	1.59
39	RB	501	GTP	C2-N3	2.81	1.40	1.33
39	SK	501	GTP	PB-O3B	2.81	1.62	1.59
39	VC	501	GTP	PB-O3A	2.81	1.62	1.59
39	NC	501	GTP	PB-O3B	2.81	1.62	1.59
39	AG	501	GTP	PB-O3B	2.81	1.62	1.59
39	CL	501	GTP	C5-N7	-2.81	1.33	1.39
39	AL	501	GTP	PB-O3B	2.80	1.62	1.59
39	KB	501	GTP	PA-O3A	2.80	1.62	1.59
39	WK	501	GTP	PB-O3A	2.80	1.62	1.59
39	QL	502	GTP	PA-O3A	2.80	1.62	1.59
39	TK	501	GTP	PB-O3B	2.80	1.62	1.59
39	PJ	501	GTP	C2-N3	2.80	1.39	1.33
39	RM	501	GTP	PB-O3A	2.79	1.62	1.59
39	KB	501	GTP	PB-O3A	2.79	1.62	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	PK	501	GTP	PA-O3A	2.78	1.62	1.59
39	ML	501	GTP	C2-N3	2.78	1.39	1.33
39	CG	501	GTP	PB-O3B	2.77	1.62	1.59
39	FC	501	GTP	PB-O3B	2.77	1.62	1.59
39	SI	501	GTP	PB-O3A	2.77	1.62	1.59
39	MC	501	GTP	PB-O3A	2.77	1.62	1.59
39	PF	501	GTP	C2-N3	2.77	1.39	1.33
39	WB	501	GTP	C2-N3	2.77	1.39	1.33
39	KD	501	GTP	PA-O3A	2.76	1.62	1.59
39	UF	501	GTP	PB-O3B	2.76	1.62	1.59
39	CH	501	GTP	C2-N3	2.76	1.39	1.33
39	RK	501	GTP	PB-O3A	2.75	1.62	1.59
39	AE	501	GTP	PB-O3B	2.75	1.62	1.59
39	BB	501	GTP	C2-N3	2.75	1.39	1.33
39	QI	501	GTP	PB-O3A	2.75	1.62	1.59
39	CE	501	GTP	PB-O3A	2.75	1.62	1.59
39	MJ	501	GTP	PB-O3B	2.75	1.62	1.59
39	VF	501	GTP	C2-N3	2.74	1.39	1.33
39	SF	501	GTP	C2-N3	2.73	1.39	1.33
39	GC	501	GTP	PB-O3A	2.73	1.62	1.59
39	OC	501	GTP	PB-O3B	2.73	1.62	1.59
39	WK	501	GTP	PB-O3B	2.72	1.62	1.59
39	GK	501	GTP	PB-O3B	2.72	1.62	1.59
39	UI	501	GTP	PB-O3A	2.72	1.62	1.59
39	QC	501	GTP	PB-O3A	2.72	1.62	1.59
39	ED	501	GTP	C2-N3	2.72	1.39	1.33
39	MG	501	GTP	PB-O3A	2.72	1.62	1.59
39	WI	501	GTP	PB-O3A	2.71	1.62	1.59
39	HA	501	GTP	PB-O3A	2.71	1.62	1.59
39	SK	501	GTP	PB-O3A	2.71	1.62	1.59
39	VA	501	GTP	PB-O3A	2.71	1.62	1.59
39	NE	501	GTP	PB-O3B	2.71	1.62	1.59
39	QG	501	GTP	PA-O3A	2.71	1.62	1.59
39	HK	501	GTP	PB-O3A	2.71	1.62	1.59
39	RG	501	GTP	PB-O3A	2.71	1.62	1.59
39	VF	501	GTP	PA-O3A	2.70	1.62	1.59
39	EA	501	GTP	PB-O3A	2.70	1.62	1.59
39	DC	501	GTP	PB-O3B	2.69	1.62	1.59
39	QG	501	GTP	PB-O3B	2.68	1.62	1.59
39	LD	501	GTP	C2-N3	2.68	1.39	1.33
39	OD	501	GTP	PB-O3A	2.68	1.62	1.59
39	TL	501	GTP	C5-N7	-2.68	1.33	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	HG	501	GTP	PB-O3B	2.67	1.62	1.59
39	HG	501	GTP	PB-O3A	2.67	1.62	1.59
39	UE	501	GTP	PB-O3A	2.67	1.62	1.59
39	WG	501	GTP	PB-O3A	2.67	1.62	1.59
39	RH	501	GTP	C2-N3	2.67	1.39	1.33
39	BI	501	GTP	PB-O3B	2.67	1.62	1.59
39	BG	501	GTP	PB-O3B	2.66	1.62	1.59
39	DE	501	GTP	PB-O3A	2.65	1.62	1.59
39	GD	501	GTP	C2-N3	2.65	1.39	1.33
39	SD	501	GTP	PA-O3A	2.65	1.62	1.59
39	SI	501	GTP	PB-O3B	2.65	1.62	1.59
39	AI	501	GTP	PB-O3A	2.65	1.62	1.59
39	HD	501	GTP	C2-N3	2.65	1.39	1.33
39	KF	501	GTP	C2-N3	2.64	1.39	1.33
39	UF	501	GTP	C2-N3	2.64	1.39	1.33
39	DE	501	GTP	PB-O3B	2.64	1.62	1.59
39	LJ	501	GTP	PA-O3A	2.64	1.62	1.59
39	SL	501	GTP	C2-N3	2.64	1.39	1.33
39	LA	501	GTP	PB-O3A	2.63	1.62	1.59
39	KA	501	GTP	PB-O3A	2.63	1.62	1.59
39	WI	501	GTP	PB-O3B	2.63	1.62	1.59
39	JI	501	GTP	PB-O3A	2.63	1.62	1.59
39	RI	501	GTP	PB-O3A	2.63	1.62	1.59
39	KD	501	GTP	PB-O3B	2.63	1.62	1.59
39	AM	501	GTP	PB-O3A	2.63	1.62	1.59
39	HA	501	GTP	PA-O3A	2.62	1.62	1.59
39	QL	502	GTP	PB-O3B	2.62	1.62	1.59
39	MD	501	GTP	PA-O3A	2.62	1.62	1.59
39	WE	501	GTP	PA-O3A	2.62	1.62	1.59
39	LC	501	GTP	PB-O3A	2.61	1.62	1.59
39	OB	501	GTP	PB-O3B	2.61	1.62	1.59
39	WD	501	GTP	PA-O3A	2.61	1.62	1.59
39	WG	501	GTP	PB-O3B	2.61	1.62	1.59
39	CI	501	GTP	PB-O3B	2.61	1.62	1.59
39	GB	501	GTP	PB-O3B	2.61	1.62	1.59
39	VH	501	GTP	C2-N3	2.61	1.39	1.33
39	BM	501	GTP	PB-O3B	2.61	1.62	1.59
39	SE	501	GTP	PB-O3A	2.61	1.62	1.59
39	HL	501	GTP	C2-N3	2.61	1.39	1.33
39	FD	501	GTP	C2-N3	2.60	1.39	1.33
39	BD	501	GTP	C2-N3	2.60	1.39	1.33
39	BE	501	GTP	PB-O3A	2.60	1.62	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	TK	501	GTP	PA-O3A	2.60	1.62	1.59
39	WA	501	GTP	PB-O3A	2.60	1.62	1.59
39	WB	501	GTP	PB-O3B	2.60	1.62	1.59
39	SM	501	GTP	PB-O3B	2.60	1.62	1.59
39	GG	501	GTP	PB-O3A	2.59	1.62	1.59
39	IL	501	GTP	C2-N3	2.59	1.39	1.33
39	AD	501	GTP	PB-O3B	2.59	1.62	1.59
39	TD	501	GTP	C2-N3	2.59	1.39	1.33
39	EJ	501	GTP	PB-O3B	2.59	1.62	1.59
39	CG	501	GTP	PB-O3A	2.59	1.62	1.59
39	DL	501	GTP	C2-N3	2.59	1.39	1.33
39	AB	501	GTP	PA-O3A	2.59	1.62	1.59
39	EK	501	GTP	PB-O3A	2.59	1.62	1.59
39	TL	501	GTP	PA-O3A	2.59	1.62	1.59
39	AC	501	GTP	PB-O3A	2.58	1.62	1.59
39	NK	501	GTP	PB-O3A	2.58	1.62	1.59
39	LJ	501	GTP	C2-N3	2.58	1.39	1.33
39	FE	501	GTP	PB-O3A	2.58	1.62	1.59
39	UA	501	GTP	PB-O3A	2.58	1.62	1.59
39	AB	501	GTP	PB-O3A	2.58	1.62	1.59
39	IH	501	GTP	C2-N3	2.57	1.39	1.33
39	GA	501	GTP	PB-O3A	2.57	1.62	1.59
39	GF	501	GTP	C2-N3	2.57	1.39	1.33
39	JH	501	GTP	PB-O3B	2.57	1.62	1.59
39	WJ	501	GTP	C2-N3	2.57	1.39	1.33
39	TM	501	GTP	PA-O3A	2.56	1.62	1.59
39	PI	501	GTP	PB-O3B	2.56	1.62	1.59
39	AK	501	GTP	PB-O3A	2.56	1.62	1.59
39	UL	501	GTP	C2-N3	2.56	1.39	1.33
39	OG	501	GTP	PB-O3B	2.56	1.62	1.59
39	IM	501	GTP	PB-O3B	2.55	1.62	1.59
39	JB	501	GTP	C2-N3	2.55	1.39	1.33
39	MM	501	GTP	PB-O3B	2.55	1.62	1.59
39	QD	502	GTP	PB-O3A	2.55	1.62	1.59
39	GI	501	GTP	PB-O3A	2.55	1.62	1.59
39	LB	501	GTP	C2-N3	2.54	1.39	1.33
39	HB	501	GTP	C2-N3	2.54	1.39	1.33
39	RB	501	GTP	PA-O3A	2.54	1.62	1.59
39	NL	501	GTP	C2-N3	2.54	1.39	1.33
39	OC	501	GTP	PB-O3A	2.54	1.62	1.59
39	TC	501	GTP	PB-O3B	2.54	1.62	1.59
39	BJ	501	GTP	C5-N7	-2.54	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	SJ	501	GTP	C2-N3	2.54	1.39	1.33
39	LJ	501	GTP	PB-O3A	2.54	1.62	1.59
39	RC	501	GTP	PA-O3A	2.53	1.62	1.59
39	WK	501	GTP	PA-O3A	2.53	1.62	1.59
39	DB	501	GTP	C2-N3	2.53	1.39	1.33
39	BH	501	GTP	C2-N3	2.53	1.39	1.33
39	PG	501	GTP	PA-O3A	2.53	1.62	1.59
39	AL	501	GTP	PA-O3A	2.52	1.62	1.59
39	BM	501	GTP	PA-O3A	2.52	1.62	1.59
39	CI	501	GTP	PB-O3A	2.52	1.62	1.59
39	IB	501	GTP	C2-N3	2.52	1.39	1.33
39	PM	501	GTP	PB-O3B	2.52	1.62	1.59
39	KK	501	GTP	PB-O3B	2.51	1.62	1.59
39	LE	501	GTP	PB-O3A	2.51	1.62	1.59
39	LE	501	GTP	PB-O3B	2.51	1.62	1.59
39	RE	501	GTP	PB-O3A	2.51	1.62	1.59
39	VE	501	GTP	PB-O3A	2.51	1.62	1.59
39	DG	501	GTP	PB-O3A	2.51	1.62	1.59
39	OI	501	GTP	PA-O3A	2.51	1.62	1.59
39	PI	501	GTP	PB-O3A	2.51	1.62	1.59
39	LH	501	GTP	C2-N3	2.50	1.39	1.33
39	FF	501	GTP	C2-N3	2.50	1.39	1.33
39	EC	501	GTP	PA-O3A	2.50	1.62	1.59
39	UH	501	GTP	C2-N3	2.50	1.39	1.33
39	AJ	501	GTP	C2-N3	2.50	1.39	1.33
39	JJ	501	GTP	C2-N3	2.50	1.39	1.33
39	NH	501	GTP	C2-N3	2.50	1.39	1.33
39	RL	501	GTP	C2-N3	2.50	1.39	1.33
39	LI	501	GTP	PB-O3A	2.50	1.62	1.59
39	CD	501	GTP	C2-N3	2.50	1.39	1.33
39	VD	501	GTP	C2-N3	2.50	1.39	1.33
39	UB	501	GTP	PB-O3B	2.49	1.62	1.59
39	CB	501	GTP	C2-N3	2.49	1.39	1.33
39	NF	501	GTP	C2-N3	2.49	1.39	1.33
39	VB	501	GTP	C2-N3	2.49	1.39	1.33
39	AL	501	GTP	C2-N3	2.49	1.39	1.33
39	AG	501	GTP	PB-O3A	2.49	1.62	1.59
39	TE	501	GTP	PA-O3A	2.49	1.62	1.59
39	ID	501	GTP	C2-N3	2.49	1.39	1.33
39	IA	501	GTP	PB-O3A	2.49	1.62	1.59
39	DH	501	GTP	C2-N3	2.49	1.39	1.33
39	NC	501	GTP	PB-O3A	2.48	1.62	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	SC	501	GTP	PB-O3B	2.48	1.62	1.59
39	GJ	501	GTP	C2-N3	2.48	1.39	1.33
39	EL	501	GTP	C2-N3	2.48	1.39	1.33
39	RI	501	GTP	PB-O3B	2.48	1.62	1.59
39	CH	501	GTP	PB-O3B	2.48	1.62	1.59
39	DG	501	GTP	PB-O3B	2.48	1.62	1.59
39	CC	501	GTP	PA-O3A	2.47	1.62	1.59
39	MJ	501	GTP	PA-O3A	2.47	1.62	1.59
39	UJ	501	GTP	C2-N3	2.47	1.39	1.33
39	JD	501	GTP	C2-N3	2.47	1.39	1.33
39	EJ	501	GTP	PA-O3A	2.47	1.62	1.59
39	OL	501	GTP	C2-N3	2.47	1.39	1.33
39	QC	501	GTP	PB-O3B	2.47	1.62	1.59
39	RM	501	GTP	PB-O3B	2.47	1.62	1.59
39	EB	501	GTP	C2-N3	2.47	1.39	1.33
39	JF	501	GTP	C2-N3	2.46	1.39	1.33
39	NL	501	GTP	PA-O3A	2.46	1.62	1.59
39	BG	501	GTP	PB-O3A	2.46	1.62	1.59
39	EE	501	GTP	PA-O3A	2.46	1.62	1.59
39	HE	501	GTP	PB-O3A	2.46	1.62	1.59
39	BF	501	GTP	C2-N3	2.46	1.39	1.33
39	TI	501	GTP	PB-O3A	2.46	1.62	1.59
39	WB	501	GTP	PA-O3A	2.46	1.62	1.59
39	OB	501	GTP	PA-O3A	2.45	1.62	1.59
39	RF	501	GTP	C2-N3	2.45	1.39	1.33
39	FB	501	GTP	C2-N3	2.45	1.39	1.33
39	VL	501	GTP	C2-N3	2.45	1.39	1.33
39	RG	501	GTP	PB-O3B	2.45	1.62	1.59
39	SH	501	GTP	C2-N3	2.45	1.39	1.33
39	OC	501	GTP	PA-O3A	2.45	1.62	1.59
39	TG	501	GTP	PA-O3A	2.45	1.62	1.59
39	NA	501	GTP	PB-O3A	2.44	1.62	1.59
39	WD	501	GTP	C2-N3	2.44	1.39	1.33
39	FG	501	GTP	PA-O3A	2.44	1.62	1.59
39	PL	501	GTP	PB-O3B	2.44	1.62	1.59
39	AE	501	GTP	PB-O3A	2.44	1.62	1.59
39	CK	501	GTP	PB-O3A	2.44	1.62	1.59
39	CM	501	GTP	PA-O3A	2.44	1.62	1.59
39	KH	501	GTP	PB-O3A	2.44	1.62	1.59
39	CJ	501	GTP	C2-N3	2.44	1.39	1.33
39	AJ	501	GTP	PA-O3A	2.44	1.62	1.59
39	IJ	501	GTP	C2-N3	2.43	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	QB	501	GTP	C2-N3	2.43	1.39	1.33
39	RJ	501	GTP	C2-N3	2.43	1.39	1.33
39	TN	501	GTP	C2-N3	2.43	1.39	1.33
39	HE	501	GTP	PB-O3B	2.43	1.62	1.59
39	VI	501	GTP	PB-O3B	2.43	1.62	1.59
39	GG	501	GTP	PB-O3B	2.43	1.62	1.59
39	PE	501	GTP	PA-O3A	2.43	1.62	1.59
39	TB	501	GTP	C2-N3	2.43	1.39	1.33
39	HI	501	GTP	PB-O3A	2.42	1.62	1.59
39	RD	501	GTP	C2-N3	2.42	1.39	1.33
39	TH	501	GTP	C2-N3	2.42	1.39	1.33
39	DA	501	GTP	PB-O3A	2.42	1.62	1.59
39	MD	502	GTP	PB-O3A	2.42	1.62	1.59
39	OF	501	GTP	C2-N3	2.42	1.39	1.33
39	JA	501	GTP	PA-O3A	2.42	1.62	1.59
39	OE	501	GTP	PA-O3A	2.42	1.62	1.59
39	TJ	501	GTP	C4-N3	2.42	1.39	1.34
39	BC	501	GTP	PB-O3A	2.42	1.62	1.59
39	OF	501	GTP	PB-O3A	2.42	1.62	1.59
39	LL	501	GTP	PA-O3A	2.42	1.62	1.59
39	EL	501	GTP	PA-O3A	2.41	1.62	1.59
39	RM	501	GTP	PA-O3A	2.41	1.62	1.59
39	OB	501	GTP	C2-N3	2.41	1.39	1.33
39	TE	501	GTP	PB-O3B	2.41	1.62	1.59
39	PC	501	GTP	PA-O3A	2.41	1.62	1.59
39	NL	501	GTP	PB-O3A	2.41	1.62	1.59
39	QH	501	GTP	C2-N3	2.41	1.39	1.33
39	JH	501	GTP	C2-N3	2.41	1.39	1.33
39	PM	501	GTP	PA-O3A	2.41	1.62	1.59
39	QD	501	GTP	C2-N3	2.41	1.39	1.33
39	MH	501	GTP	C2-N3	2.41	1.39	1.33
39	GE	501	GTP	PA-O3A	2.40	1.62	1.59
39	WF	501	GTP	C2-N3	2.40	1.39	1.33
39	HJ	501	GTP	C2-N3	2.40	1.39	1.33
39	SD	501	GTP	C2-N3	2.40	1.39	1.33
39	NK	501	GTP	PB-O3B	2.40	1.62	1.59
39	NI	501	GTP	PA-O3A	2.40	1.62	1.59
39	VJ	501	GTP	C2-N3	2.40	1.39	1.33
39	BL	501	GTP	PA-O3A	2.40	1.62	1.59
39	CM	501	GTP	PB-O3B	2.40	1.62	1.59
39	SD	501	GTP	PB-O3B	2.40	1.62	1.59
39	OJ	501	GTP	C2-N3	2.40	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	WD	501	GTP	PB-O3A	2.40	1.62	1.59
39	MI	501	GTP	PB-O3A	2.40	1.62	1.59
39	FK	501	GTP	PA-O3A	2.40	1.62	1.59
39	GK	501	GTP	PB-O3A	2.40	1.62	1.59
39	KI	501	GTP	PB-O3A	2.40	1.62	1.59
39	VC	501	GTP	PA-O3A	2.40	1.62	1.59
39	JL	501	GTP	C2-N3	2.40	1.39	1.33
39	NG	501	GTP	PB-O3A	2.40	1.62	1.59
39	UF	501	GTP	PA-O3A	2.40	1.62	1.59
39	CD	501	GTP	PA-O3A	2.40	1.62	1.59
39	PC	501	GTP	PB-O3B	2.40	1.62	1.59
39	DH	501	GTP	PA-O3A	2.39	1.62	1.59
39	LH	501	GTP	PA-O3A	2.39	1.62	1.59
39	NB	501	GTP	C2-N3	2.39	1.39	1.33
39	TL	501	GTP	PB-O3A	2.39	1.62	1.59
39	MF	501	GTP	C2-N3	2.39	1.39	1.33
39	KJ	501	GTP	C2-N3	2.39	1.39	1.33
39	HF	501	GTP	C2-N3	2.39	1.39	1.33
39	BL	501	GTP	C2-N3	2.39	1.39	1.33
39	DI	501	GTP	PB-O3A	2.39	1.62	1.59
39	AF	501	GTP	PA-O3A	2.38	1.62	1.59
39	EJ	501	GTP	C2-N3	2.38	1.38	1.33
39	CH	501	GTP	C5-N7	-2.38	1.34	1.39
39	AI	501	GTP	PB-O3B	2.38	1.62	1.59
39	OA	501	GTP	PB-O3A	2.38	1.62	1.59
39	MD	501	GTP	C2-N3	2.37	1.38	1.33
39	II	501	GTP	PB-O3B	2.37	1.62	1.59
39	JK	501	GTP	PB-O3A	2.37	1.62	1.59
39	KL	501	GTP	C2-N3	2.37	1.38	1.33
39	JC	501	GTP	PB-O3A	2.37	1.62	1.59
39	CB	501	GTP	PA-O3A	2.37	1.62	1.59
39	KG	501	GTP	PA-O3A	2.37	1.62	1.59
39	WL	501	GTP	C2-N3	2.37	1.38	1.33
39	IF	501	GTP	C2-N3	2.37	1.38	1.33
39	HH	501	GTP	C2-N3	2.37	1.38	1.33
39	PM	501	GTP	PB-O3A	2.36	1.62	1.59
39	PB	501	GTP	C2-N3	2.36	1.38	1.33
39	ID	501	GTP	PB-O3B	2.36	1.62	1.59
39	JG	501	GTP	PB-O3A	2.36	1.62	1.59
39	DD	501	GTP	C5-N7	-2.36	1.34	1.39
39	LF	501	GTP	C2-N3	2.36	1.38	1.33
39	AD	501	GTP	C2-N3	2.36	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	IK	501	GTP	PB-O3A	2.35	1.62	1.59
39	DH	501	GTP	PB-O3A	2.35	1.62	1.59
39	FH	501	GTP	PB-O3B	2.35	1.62	1.59
39	CF	501	GTP	C2-N3	2.35	1.38	1.33
39	CD	501	GTP	PB-O3B	2.35	1.62	1.59
39	OH	501	GTP	C2-N3	2.35	1.38	1.33
39	EH	501	GTP	PB-O3B	2.35	1.62	1.59
39	GB	501	GTP	PA-O3A	2.35	1.62	1.59
39	QK	501	GTP	PB-O3A	2.35	1.62	1.59
39	QL	501	GTP	C2-N3	2.35	1.38	1.33
39	MD	502	GTP	PB-O3B	2.35	1.62	1.59
39	UC	501	GTP	PB-O3B	2.35	1.62	1.59
39	OD	501	GTP	C2-N3	2.35	1.38	1.33
39	QJ	501	GTP	C2-N3	2.35	1.38	1.33
39	CG	501	GTP	PA-O3A	2.35	1.62	1.59
39	GC	501	GTP	PB-O3B	2.35	1.62	1.59
39	HK	501	GTP	PA-O3A	2.34	1.62	1.59
39	IG	501	GTP	PA-O3A	2.34	1.62	1.59
39	UD	501	GTP	C2-N3	2.34	1.38	1.33
39	BC	501	GTP	PB-O3B	2.34	1.62	1.59
39	GF	501	GTP	PA-O3A	2.34	1.62	1.59
39	LK	501	GTP	PB-O3B	2.34	1.62	1.59
39	EH	501	GTP	C2-N3	2.34	1.38	1.33
39	JH	501	GTP	PA-O3A	2.34	1.62	1.59
39	VK	501	GTP	PB-O3A	2.34	1.62	1.59
39	EL	501	GTP	PB-O3A	2.34	1.62	1.59
39	OG	501	GTP	PB-O3A	2.33	1.62	1.59
39	UI	501	GTP	PA-O3A	2.33	1.62	1.59
39	UK	501	GTP	PB-O3B	2.33	1.62	1.59
39	AF	501	GTP	C2-N3	2.33	1.38	1.33
39	BL	501	GTP	PB-O3B	2.33	1.62	1.59
39	EB	501	GTP	PA-O3A	2.33	1.62	1.59
39	KH	501	GTP	PA-O3A	2.33	1.62	1.59
39	UC	501	GTP	PB-O3A	2.33	1.62	1.59
39	OK	501	GTP	PB-O3B	2.33	1.62	1.59
39	CE	501	GTP	PB-O3B	2.32	1.62	1.59
39	SF	501	GTP	PA-O3A	2.32	1.62	1.59
39	UA	501	GTP	PB-O3B	2.32	1.62	1.59
39	WB	501	GTP	PB-O3A	2.32	1.62	1.59
39	AJ	501	GTP	PB-O3A	2.32	1.62	1.59
39	KK	501	GTP	PB-O3A	2.32	1.62	1.59
39	BI	501	GTP	PB-O3A	2.32	1.62	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	QK	501	GTP	PB-O3B	2.32	1.62	1.59
39	HF	501	GTP	PA-O3A	2.32	1.62	1.59
39	UB	501	GTP	C2-N3	2.32	1.38	1.33
39	KD	501	GTP	C2-N3	2.31	1.38	1.33
39	MD	501	GTP	PB-O3A	2.31	1.62	1.59
39	ND	501	GTP	C5-N7	-2.31	1.34	1.39
39	FL	501	GTP	PB-O3A	2.31	1.62	1.59
39	MC	501	GTP	PB-O3B	2.31	1.62	1.59
39	LL	501	GTP	C2-N3	2.31	1.38	1.33
39	LG	501	GTP	PB-O3A	2.31	1.62	1.59
39	SG	501	GTP	PB-O3B	2.30	1.62	1.59
39	SK	501	GTP	PA-O3A	2.30	1.62	1.59
39	MB	501	GTP	C2-N3	2.30	1.38	1.33
39	GH	501	GTP	PB-O3B	2.30	1.62	1.59
39	QC	501	GTP	PA-O3A	2.30	1.62	1.59
39	TI	501	GTP	PB-O3B	2.30	1.62	1.59
39	UA	501	GTP	PA-O3A	2.30	1.62	1.59
39	BK	501	GTP	PB-O3B	2.30	1.62	1.59
39	TL	501	GTP	PB-O3B	2.30	1.62	1.59
39	EG	501	GTP	PB-O3A	2.30	1.62	1.59
39	IJ	501	GTP	PA-O3A	2.30	1.62	1.59
39	TF	501	GTP	C2-N3	2.30	1.38	1.33
39	RB	501	GTP	PB-O3A	2.30	1.62	1.59
39	EK	501	GTP	PA-O3A	2.29	1.62	1.59
39	FB	501	GTP	PA-O3A	2.29	1.62	1.59
39	LG	501	GTP	PB-O3B	2.29	1.62	1.59
39	PE	501	GTP	PB-O3B	2.29	1.62	1.59
39	FC	501	GTP	PB-O3A	2.29	1.62	1.59
39	JG	501	GTP	PB-O3B	2.29	1.62	1.59
39	OK	501	GTP	PB-O3A	2.29	1.62	1.59
39	TC	501	GTP	PA-O3A	2.29	1.62	1.59
39	UK	501	GTP	PA-O3A	2.29	1.62	1.59
39	MF	501	GTP	PA-O3A	2.29	1.62	1.59
39	MK	501	GTP	PB-O3A	2.29	1.62	1.59
39	EH	501	GTP	PA-O3A	2.29	1.62	1.59
39	UB	501	GTP	PA-O3A	2.29	1.62	1.59
39	UG	501	GTP	PA-O3A	2.29	1.62	1.59
39	CB	501	GTP	PB-O3A	2.28	1.62	1.59
39	RC	501	GTP	PB-O3B	2.28	1.62	1.59
39	SG	501	GTP	PA-O3A	2.28	1.62	1.59
39	PL	501	GTP	PA-O3A	2.28	1.62	1.59
39	RG	501	GTP	PA-O3A	2.28	1.62	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	KC	501	GTP	PB-O3A	2.28	1.62	1.59
39	CI	501	GTP	PA-O3A	2.28	1.62	1.59
39	FF	501	GTP	PA-O3A	2.28	1.62	1.59
39	HC	501	GTP	PB-O3A	2.27	1.62	1.59
39	JI	501	GTP	PB-O3B	2.27	1.62	1.59
39	SI	501	GTP	PA-O3A	2.27	1.62	1.59
39	VE	501	GTP	C2-N3	2.27	1.38	1.33
39	VA	501	GTP	PA-O3A	2.27	1.61	1.59
39	QF	501	GTP	C2-N3	2.27	1.38	1.33
39	MC	501	GTP	PA-O3A	2.27	1.61	1.59
39	QG	501	GTP	C2-N3	2.27	1.38	1.33
39	TG	501	GTP	PB-O3B	2.27	1.61	1.59
39	IF	501	GTP	PB-O3B	2.26	1.61	1.59
39	FD	501	GTP	PA-O3A	2.26	1.61	1.59
39	RB	501	GTP	PB-O3B	2.26	1.61	1.59
39	RK	501	GTP	PA-O3A	2.26	1.61	1.59
39	IJ	501	GTP	PB-O3B	2.26	1.61	1.59
39	MJ	501	GTP	C2-N3	2.26	1.38	1.33
39	FB	501	GTP	PB-O3B	2.26	1.61	1.59
39	TJ	501	GTP	C2-N2	2.26	1.39	1.34
39	AH	501	GTP	C2-N3	2.25	1.38	1.33
39	SC	501	GTP	PB-O3A	2.25	1.61	1.59
39	EI	501	GTP	PA-O3A	2.25	1.61	1.59
39	II	501	GTP	PB-O3A	2.25	1.61	1.59
39	PA	501	GTP	PB-O3A	2.25	1.61	1.59
39	KE	501	GTP	PB-O3A	2.25	1.61	1.59
39	UB	501	GTP	PB-O3A	2.25	1.61	1.59
39	BE	501	GTP	PA-O3A	2.24	1.61	1.59
39	WC	501	GTP	PB-O3B	2.24	1.61	1.59
39	KL	501	GTP	PA-O3A	2.24	1.61	1.59
39	WF	501	GTP	PB-O3B	2.24	1.61	1.59
39	LH	501	GTP	PB-O3B	2.24	1.61	1.59
39	IH	501	GTP	PB-O3B	2.24	1.61	1.59
39	LA	501	GTP	PB-O3B	2.24	1.61	1.59
39	VI	501	GTP	PA-O3A	2.24	1.61	1.59
39	VE	501	GTP	PB-O3B	2.24	1.61	1.59
39	TJ	501	GTP	C5-N7	-2.24	1.34	1.39
39	VL	501	GTP	PA-O3A	2.24	1.61	1.59
39	WC	501	GTP	PA-O3A	2.24	1.61	1.59
39	SK	501	GTP	C2-N3	2.23	1.38	1.33
39	SG	501	GTP	C2-N3	2.23	1.38	1.33
39	HG	501	GTP	PA-O3A	2.23	1.61	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	NE	501	GTP	PB-O3A	2.23	1.61	1.59
39	PM	501	GTP	C2-N3	2.23	1.38	1.33
39	AK	501	GTP	PA-O3A	2.22	1.61	1.59
39	ND	501	GTP	PA-O3A	2.22	1.61	1.59
39	NK	501	GTP	PA-O3A	2.22	1.61	1.59
39	PA	501	GTP	PB-O3B	2.22	1.61	1.59
39	EF	501	GTP	PA-O3A	2.22	1.61	1.59
39	HJ	501	GTP	PA-O3A	2.22	1.61	1.59
39	VH	501	GTP	PA-O3A	2.22	1.61	1.59
39	OE	501	GTP	PB-O3A	2.21	1.61	1.59
39	FI	501	GTP	PB-O3B	2.21	1.61	1.59
39	IF	501	GTP	PA-O3A	2.21	1.61	1.59
39	LI	501	GTP	C2-N3	2.21	1.38	1.33
39	BF	501	GTP	PA-O3A	2.21	1.61	1.59
39	EA	501	GTP	PB-O3B	2.21	1.61	1.59
39	LA	501	GTP	PA-O3A	2.21	1.61	1.59
39	TL	501	GTP	C5-C6	-2.21	1.36	1.44
39	EF	501	GTP	PB-O3A	2.21	1.61	1.59
39	QJ	501	GTP	PB-O3B	2.21	1.61	1.59
39	VA	501	GTP	PB-O3B	2.21	1.61	1.59
39	OK	501	GTP	C2-N3	2.21	1.38	1.33
39	JD	501	GTP	PB-O3B	2.20	1.61	1.59
39	OB	501	GTP	PB-O3A	2.20	1.61	1.59
39	NF	501	GTP	PA-O3A	2.20	1.61	1.59
39	GG	501	GTP	PA-O3A	2.20	1.61	1.59
39	LL	501	GTP	PB-O3B	2.20	1.61	1.59
39	LI	501	GTP	PA-O3A	2.20	1.61	1.59
39	QI	501	GTP	PB-O3B	2.20	1.61	1.59
39	NI	501	GTP	PB-O3B	2.20	1.61	1.59
39	QI	501	GTP	PA-O3A	2.19	1.61	1.59
39	LE	501	GTP	C2-N3	2.19	1.38	1.33
39	WA	501	GTP	PB-O3B	2.19	1.61	1.59
39	LG	501	GTP	PA-O3A	2.19	1.61	1.59
39	EF	501	GTP	C5-N7	-2.19	1.34	1.39
39	MG	501	GTP	PA-O3A	2.19	1.61	1.59
39	VJ	501	GTP	PA-O3A	2.19	1.61	1.59
39	VK	501	GTP	PB-O3B	2.19	1.61	1.59
39	RL	501	GTP	PB-O3B	2.18	1.61	1.59
39	VG	501	GTP	PB-O3A	2.18	1.61	1.59
39	AD	501	GTP	PA-O3A	2.18	1.61	1.59
39	HE	501	GTP	PA-O3A	2.18	1.61	1.59
39	IM	501	GTP	PB-O3A	2.17	1.61	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	RL	501	GTP	PB-O3A	2.17	1.61	1.59
39	LC	501	GTP	PA-O3A	2.17	1.61	1.59
39	GA	501	GTP	PA-O3A	2.17	1.61	1.59
39	EA	501	GTP	PA-O3A	2.17	1.61	1.59
39	EG	501	GTP	C2-N3	2.17	1.38	1.33
39	IE	501	GTP	C2-N3	2.17	1.38	1.33
39	OA	501	GTP	PB-O3B	2.17	1.61	1.59
39	WG	501	GTP	PA-O3A	2.17	1.61	1.59
39	AC	501	GTP	PA-O3A	2.17	1.61	1.59
39	BJ	501	GTP	PB-O3A	2.17	1.61	1.59
39	EJ	501	GTP	PB-O3A	2.17	1.61	1.59
39	UH	501	GTP	PA-O3A	2.16	1.61	1.59
39	ND	501	GTP	PB-O3A	2.16	1.61	1.59
39	CF	501	GTP	PA-O3A	2.16	1.61	1.59
39	DA	501	GTP	C2-N3	2.15	1.38	1.33
39	OC	501	GTP	C2-N3	2.15	1.38	1.33
39	VE	501	GTP	PA-O3A	2.15	1.61	1.59
39	LK	501	GTP	C2-N3	2.15	1.38	1.33
39	CE	501	GTP	PA-O3A	2.15	1.61	1.59
39	AB	501	GTP	PB-O3B	2.15	1.61	1.59
39	JC	501	GTP	C2-N3	2.14	1.38	1.33
39	GA	501	GTP	PB-O3B	2.14	1.61	1.59
39	AL	501	GTP	PB-O3A	2.14	1.61	1.59
39	DA	501	GTP	PB-O3B	2.14	1.61	1.59
39	GB	501	GTP	C5-N7	-2.14	1.34	1.39
39	NA	501	GTP	PA-O3A	2.14	1.61	1.59
39	SD	501	GTP	PB-O3A	2.14	1.61	1.59
39	TI	501	GTP	PA-O3A	2.14	1.61	1.59
39	AK	501	GTP	PB-O3B	2.14	1.61	1.59
39	DI	501	GTP	PB-O3B	2.13	1.61	1.59
39	UG	501	GTP	C2-N3	2.13	1.38	1.33
39	WI	501	GTP	PA-O3A	2.13	1.61	1.59
39	FI	501	GTP	PB-O3A	2.13	1.61	1.59
39	MK	501	GTP	C2-N3	2.13	1.38	1.33
39	RL	501	GTP	PA-O3A	2.13	1.61	1.59
39	TB	501	GTP	PB-O3B	2.13	1.61	1.59
39	EL	501	GTP	PB-O3B	2.13	1.61	1.59
39	QH	501	GTP	PB-O3B	2.13	1.61	1.59
39	UI	501	GTP	C2-N3	2.13	1.38	1.33
39	WA	501	GTP	PA-O3A	2.13	1.61	1.59
39	BG	501	GTP	C2-N3	2.13	1.38	1.33
39	JE	501	GTP	PB-O3B	2.13	1.61	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	IJ	501	GTP	PB-O3A	2.13	1.61	1.59
39	JA	501	GTP	PB-O3B	2.13	1.61	1.59
39	UI	501	GTP	PB-O3B	2.12	1.61	1.59
39	PD	501	GTP	PB-O3B	2.12	1.61	1.59
39	RD	501	GTP	PB-O3B	2.12	1.61	1.59
39	SE	501	GTP	PB-O3B	2.12	1.61	1.59
39	AG	501	GTP	PA-O3A	2.12	1.61	1.59
39	GC	501	GTP	PA-O3A	2.12	1.61	1.59
39	MD	501	GTP	PB-O3B	2.12	1.61	1.59
39	HG	501	GTP	C2-N3	2.12	1.38	1.33
39	DB	501	GTP	PA-O3A	2.12	1.61	1.59
39	NB	501	GTP	PA-O3A	2.12	1.61	1.59
39	CL	501	GTP	PB-O3A	2.12	1.61	1.59
39	NA	501	GTP	C2-N3	2.12	1.38	1.33
39	SE	501	GTP	PA-O3A	2.12	1.61	1.59
39	TB	501	GTP	PA-O3A	2.12	1.61	1.59
39	UH	501	GTP	PB-O3B	2.12	1.61	1.59
39	CD	501	GTP	PB-O3A	2.11	1.61	1.59
39	JK	501	GTP	PA-O3A	2.11	1.61	1.59
39	LC	501	GTP	PB-O3B	2.11	1.61	1.59
39	MF	501	GTP	PB-O3A	2.11	1.61	1.59
39	MG	501	GTP	PB-O3B	2.11	1.61	1.59
39	KE	501	GTP	C2-N3	2.11	1.38	1.33
39	IH	501	GTP	PA-O3A	2.11	1.61	1.59
39	FE	501	GTP	C2-N3	2.11	1.38	1.33
39	NB	501	GTP	PB-O3A	2.11	1.61	1.59
39	FH	501	GTP	PA-O3A	2.11	1.61	1.59
39	MM	501	GTP	PB-O3A	2.11	1.61	1.59
39	TM	501	GTP	PB-O3B	2.11	1.61	1.59
39	JD	501	GTP	PA-O3A	2.10	1.61	1.59
39	JE	501	GTP	PB-O3A	2.10	1.61	1.59
39	DF	501	GTP	PA-O3A	2.10	1.61	1.59
39	KI	501	GTP	C2-N3	2.10	1.38	1.33
39	IK	501	GTP	PB-O3B	2.10	1.61	1.59
39	LL	501	GTP	PB-O3A	2.10	1.61	1.59
39	NG	501	GTP	C2-N3	2.10	1.38	1.33
39	NH	501	GTP	PA-O3A	2.10	1.61	1.59
39	LJ	501	GTP	C5-N7	-2.09	1.34	1.39
39	BG	501	GTP	PA-O3A	2.09	1.61	1.59
39	DA	501	GTP	PA-O3A	2.09	1.61	1.59
39	IA	501	GTP	PA-O3A	2.09	1.61	1.59
39	PH	501	GTP	C5-N7	-2.09	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	FL	501	GTP	PB-O3B	2.09	1.61	1.59
39	HD	501	GTP	PA-O3A	2.09	1.61	1.59
39	IF	501	GTP	PB-O3A	2.09	1.61	1.59
39	VC	501	GTP	PB-O3B	2.09	1.61	1.59
39	FA	501	GTP	PB-O3B	2.09	1.61	1.59
39	IH	501	GTP	PB-O3A	2.09	1.61	1.59
39	HE	501	GTP	C2-N3	2.09	1.38	1.33
39	AF	501	GTP	PB-O3B	2.09	1.61	1.59
39	DK	501	GTP	PA-O3A	2.09	1.61	1.59
39	GD	501	GTP	PA-O3A	2.09	1.61	1.59
39	KG	501	GTP	C2-N3	2.09	1.38	1.33
39	RK	501	GTP	PB-O3B	2.08	1.61	1.59
39	PD	501	GTP	C4-N3	2.08	1.39	1.34
39	OA	501	GTP	C2-N3	2.08	1.38	1.33
39	OA	501	GTP	PA-O3A	2.08	1.61	1.59
39	RE	501	GTP	PB-O3B	2.08	1.61	1.59
39	VK	501	GTP	PA-O3A	2.08	1.61	1.59
39	JE	501	GTP	C2-N3	2.08	1.38	1.33
39	ID	501	GTP	PA-O3A	2.08	1.61	1.59
39	EB	501	GTP	PB-O3A	2.08	1.61	1.59
39	QL	502	GTP	C2-N3	2.08	1.38	1.33
39	SL	501	GTP	PA-O3A	2.08	1.61	1.59
39	TH	501	GTP	PA-O3A	2.08	1.61	1.59
39	MD	502	GTP	PA-O3A	2.08	1.61	1.59
39	HK	501	GTP	PB-O3B	2.07	1.61	1.59
39	WF	501	GTP	PA-O3A	2.07	1.61	1.59
39	NE	501	GTP	PA-O3A	2.07	1.61	1.59
39	DB	501	GTP	PB-O3B	2.07	1.61	1.59
39	HJ	501	GTP	PB-O3B	2.07	1.61	1.59
39	KI	501	GTP	PA-O3A	2.07	1.61	1.59
39	TK	501	GTP	C2-N3	2.07	1.38	1.33
39	UE	501	GTP	PA-O3A	2.07	1.61	1.59
39	HH	501	GTP	PA-O3A	2.07	1.61	1.59
39	GB	501	GTP	C4-N3	2.07	1.39	1.34
39	TE	501	GTP	C2-N3	2.07	1.38	1.33
39	DC	501	GTP	PB-O3A	2.07	1.61	1.59
39	KA	501	GTP	PB-O3B	2.07	1.61	1.59
39	KG	501	GTP	PB-O3B	2.07	1.61	1.59
39	VA	501	GTP	C2-N3	2.07	1.38	1.33
39	TD	501	GTP	PA-O3A	2.07	1.61	1.59
39	PG	501	GTP	C2-N3	2.07	1.38	1.33
39	WA	501	GTP	C2-N3	2.07	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	RI	501	GTP	C2-N3	2.07	1.38	1.33
39	FL	501	GTP	C5-N7	-2.06	1.34	1.39
39	JK	501	GTP	C2-N3	2.06	1.38	1.33
39	KC	501	GTP	C2-N3	2.06	1.38	1.33
39	PD	501	GTP	C2-N2	2.06	1.39	1.34
39	MI	501	GTP	PB-O3B	2.06	1.61	1.59
39	QC	501	GTP	C2-N3	2.06	1.38	1.33
39	EH	501	GTP	PB-O3A	2.06	1.61	1.59
39	JA	501	GTP	C2-N3	2.06	1.38	1.33
39	MI	501	GTP	PA-O3A	2.06	1.61	1.59
39	MF	501	GTP	PB-O3B	2.06	1.61	1.59
39	SM	501	GTP	PB-O3A	2.06	1.61	1.59
39	RE	501	GTP	PA-O3A	2.06	1.61	1.59
39	LK	501	GTP	PB-O3A	2.05	1.61	1.59
39	OG	501	GTP	PA-O3A	2.05	1.61	1.59
39	CL	501	GTP	C5-C6	-2.05	1.37	1.44
39	HK	501	GTP	C2-N3	2.05	1.38	1.33
39	DJ	501	GTP	PA-O3A	2.05	1.61	1.59
39	FB	501	GTP	PB-O3A	2.05	1.61	1.59
39	PI	501	GTP	C2-N3	2.05	1.38	1.33
39	IA	501	GTP	C2-N3	2.05	1.38	1.33
39	WI	501	GTP	C2-N3	2.05	1.38	1.33
39	GD	501	GTP	PB-O3B	2.05	1.61	1.59
39	VJ	501	GTP	PB-O3A	2.05	1.61	1.59
39	KF	501	GTP	C5-N7	-2.04	1.35	1.39
39	OI	501	GTP	C2-N3	2.04	1.38	1.33
39	UF	501	GTP	C5-N7	-2.04	1.35	1.39
39	VI	501	GTP	C2-N3	2.04	1.38	1.33
39	FG	501	GTP	PB-O3B	2.04	1.61	1.59
39	NA	501	GTP	PB-O3B	2.04	1.61	1.59
39	DF	501	GTP	PB-O3A	2.04	1.61	1.59
39	GL	501	GTP	C5-N7	-2.04	1.35	1.39
39	MM	501	GTP	C2-N3	2.04	1.38	1.33
39	EC	501	GTP	O6-C6	2.04	1.27	1.23
39	IE	501	GTP	PB-O3A	2.04	1.61	1.59
39	DG	501	GTP	C2-N3	2.04	1.38	1.33
39	NL	501	GTP	PB-O3B	2.04	1.61	1.59
39	LA	501	GTP	C2-N3	2.04	1.38	1.33
39	IG	501	GTP	C2-N3	2.04	1.38	1.33
39	SB	501	GTP	C5-N7	-2.04	1.35	1.39
39	WC	501	GTP	C2-N3	2.03	1.38	1.33
39	RG	501	GTP	C2-N3	2.03	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	LD	501	GTP	PA-O3A	2.03	1.61	1.59
39	PJ	501	GTP	C5-N7	-2.03	1.35	1.39
39	SF	501	GTP	C5-N7	-2.03	1.35	1.39
39	IG	501	GTP	PB-O3B	2.03	1.61	1.59
39	QF	501	GTP	PA-O3A	2.03	1.61	1.59
39	GK	501	GTP	C2-N3	2.03	1.38	1.33
39	IL	501	GTP	C5-N7	-2.03	1.35	1.39
39	FL	501	GTP	PA-O3A	2.03	1.61	1.59
39	SH	501	GTP	PA-O3A	2.03	1.61	1.59
39	NB	501	GTP	PB-O3B	2.03	1.61	1.59
39	SF	501	GTP	PB-O3A	2.03	1.61	1.59
39	FJ	501	GTP	C5-N7	-2.03	1.35	1.39
39	PL	501	GTP	C5-N7	-2.03	1.35	1.39
39	PA	501	GTP	C2-N3	2.03	1.38	1.33
39	BC	501	GTP	C2-N3	2.03	1.38	1.33
39	LE	501	GTP	PA-O3A	2.03	1.61	1.59
39	UB	501	GTP	C5-N7	-2.03	1.35	1.39
39	TM	501	GTP	C2-N3	2.02	1.38	1.33
39	MG	501	GTP	C2-N3	2.02	1.38	1.33
39	NF	501	GTP	PB-O3B	2.02	1.61	1.59
39	RM	501	GTP	C2-N3	2.02	1.38	1.33
39	CI	501	GTP	C2-N3	2.02	1.38	1.33
39	OG	501	GTP	C2-N3	2.02	1.38	1.33
39	AL	501	GTP	C5-N7	-2.02	1.35	1.39
39	IA	501	GTP	PB-O3B	2.02	1.61	1.59
39	UA	501	GTP	C2-N3	2.02	1.38	1.33
39	AC	501	GTP	C2-N3	2.02	1.38	1.33
39	VK	501	GTP	C2-N3	2.02	1.38	1.33
39	SH	501	GTP	PB-O3A	2.02	1.61	1.59
39	TG	501	GTP	C2-N3	2.02	1.38	1.33
39	ID	501	GTP	C5-N7	-2.02	1.35	1.39
39	CK	501	GTP	PB-O3B	2.02	1.61	1.59
39	GB	501	GTP	PB-O3A	2.02	1.61	1.59
39	LI	501	GTP	PB-O3B	2.01	1.61	1.59
39	GA	501	GTP	C2-N3	2.01	1.38	1.33
39	GF	501	GTP	PB-O3A	2.01	1.61	1.59
39	QL	501	GTP	PA-O3A	2.01	1.61	1.59
39	UK	501	GTP	C2-N3	2.01	1.38	1.33
39	NK	501	GTP	C2-N3	2.01	1.38	1.33
39	DB	501	GTP	PB-O3A	2.01	1.61	1.59
39	AG	501	GTP	C2-N3	2.01	1.38	1.33
39	GL	501	GTP	PA-O3A	2.01	1.61	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	TN	501	GTP	PA-O3A	2.01	1.61	1.59
39	DG	501	GTP	PA-O3A	2.01	1.61	1.59
39	IK	501	GTP	C2-N3	2.01	1.38	1.33
39	DF	501	GTP	PB-O3B	2.01	1.61	1.59
39	HA	501	GTP	PB-O3B	2.01	1.61	1.59
39	RB	501	GTP	C5-N7	-2.00	1.35	1.39
39	VH	501	GTP	PB-O3A	2.00	1.61	1.59
39	BK	501	GTP	C2-N3	2.00	1.38	1.33
39	GD	501	GTP	C5-N7	-2.00	1.35	1.39
39	QD	502	GTP	PA-O3A	2.00	1.61	1.59
39	EB	501	GTP	C5-N7	-2.00	1.35	1.39
39	GH	501	GTP	C5-N7	-2.00	1.35	1.39
39	SE	501	GTP	C2-N3	2.00	1.38	1.33
39	PK	501	GTP	C2-N3	2.00	1.38	1.33

All (2995) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	BJ	501	GTP	O4'-C1'-N9	10.96	133.20	108.36
39	BJ	501	GTP	C2-N3-C4	8.58	127.08	112.30
39	BJ	501	GTP	C5-C4-N3	-8.20	115.33	128.39
39	CL	501	GTP	C5-C4-N3	-7.50	116.45	128.39
39	TL	501	GTP	N9-C4-N3	7.38	140.71	125.95
39	CL	501	GTP	C2-N3-C4	7.17	124.66	112.30
39	TL	501	GTP	O4'-C1'-N9	6.62	123.35	108.36
39	PD	501	GTP	C5-C4-N3	-6.44	118.13	128.39
39	PD	501	GTP	C2-N3-C4	6.39	123.30	112.30
39	OK	501	GTP	C2-N3-C4	6.33	123.20	112.30
39	ND	501	GTP	C5-C4-N3	-6.28	118.40	128.39
39	RH	501	GTP	C5-C4-N3	-6.23	118.47	128.39
39	TL	501	GTP	C5-C4-N3	-6.23	118.47	128.39
39	EF	501	GTP	C5-C4-N3	-6.21	118.51	128.39
39	NJ	501	GTP	C5-C4-N3	-6.17	118.58	128.39
39	PJ	501	GTP	C5-C4-N3	-6.13	118.63	128.39
39	KF	501	GTP	C5-C4-N3	-6.13	118.64	128.39
39	PF	501	GTP	C5-C4-N3	-6.12	118.65	128.39
39	LJ	501	GTP	C5-C4-N3	-6.08	118.71	128.39
39	TJ	501	GTP	N9-C4-N3	6.05	138.05	125.95
39	ML	501	GTP	C5-C4-N3	-6.01	118.82	128.39
39	PH	501	GTP	C5-C4-N3	-6.00	118.84	128.39
39	WB	501	GTP	C5-C4-N3	-5.99	118.85	128.39
39	VF	501	GTP	C5-C4-N3	-5.95	118.92	128.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	FJ	501	GTP	C5-C4-N3	-5.95	118.92	128.39
39	UF	501	GTP	C5-C4-N3	-5.92	118.96	128.39
39	BB	501	GTP	C5-C4-N3	-5.92	118.97	128.39
39	SB	501	GTP	C5-C4-N3	-5.91	118.98	128.39
39	KH	501	GTP	C5-C4-N3	-5.89	119.01	128.39
39	KB	501	GTP	C5-C4-N3	-5.88	119.04	128.39
39	CH	501	GTP	C5-C4-N3	-5.85	119.08	128.39
39	SL	501	GTP	C5-C4-N3	-5.85	119.08	128.39
39	LD	501	GTP	C5-C4-N3	-5.85	119.09	128.39
39	DF	501	GTP	C5-C4-N3	-5.83	119.11	128.39
39	WJ	501	GTP	C5-C4-N3	-5.82	119.13	128.39
39	ED	501	GTP	C5-C4-N3	-5.82	119.13	128.39
39	TJ	501	GTP	C5-C4-N3	-5.82	119.14	128.39
39	LB	501	GTP	C5-C4-N3	-5.81	119.14	128.39
39	BJ	501	GTP	C4'-O4'-C1'	-5.80	96.66	109.47
39	WH	501	GTP	C5-C4-N3	-5.78	119.19	128.39
39	GH	501	GTP	C5-C4-N3	-5.77	119.21	128.39
39	GL	501	GTP	C5-C4-N3	-5.76	119.22	128.39
39	TD	501	GTP	C5-C4-N3	-5.76	119.23	128.39
39	SB	501	GTP	C2-N3-C4	5.75	122.20	112.30
39	PL	501	GTP	C5-C4-N3	-5.74	119.25	128.39
39	GD	501	GTP	C5-C4-N3	-5.73	119.27	128.39
39	UL	501	GTP	C5-C4-N3	-5.73	119.28	128.39
39	BH	501	GTP	C5-C4-N3	-5.72	119.29	128.39
39	DJ	501	GTP	C5-C4-N3	-5.72	119.29	128.39
39	SH	501	GTP	C5-C4-N3	-5.71	119.30	128.39
39	VH	501	GTP	C5-C4-N3	-5.71	119.30	128.39
39	SJ	501	GTP	C5-C4-N3	-5.71	119.30	128.39
39	DL	501	GTP	C5-C4-N3	-5.71	119.30	128.39
39	GB	501	GTP	C5-C4-N3	-5.71	119.30	128.39
39	IL	501	GTP	C5-C4-N3	-5.70	119.31	128.39
39	JJ	501	GTP	C5-C4-N3	-5.70	119.32	128.39
39	GL	501	GTP	C2-N3-C4	5.70	122.11	112.30
39	LH	501	GTP	C5-C4-N3	-5.69	119.33	128.39
39	FF	501	GTP	C5-C4-N3	-5.68	119.35	128.39
39	DD	501	GTP	C5-C4-N3	-5.68	119.36	128.39
39	TH	501	GTP	C5-C4-N3	-5.67	119.36	128.39
39	JB	501	GTP	C5-C4-N3	-5.66	119.38	128.39
39	RL	501	GTP	C5-C4-N3	-5.66	119.39	128.39
39	AB	501	GTP	C5-C4-N3	-5.66	119.39	128.39
39	TJ	501	GTP	C2-N3-C4	5.65	122.04	112.30
39	AJ	501	GTP	C5-C4-N3	-5.65	119.40	128.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	OL	501	GTP	C5-C4-N3	-5.65	119.40	128.39
39	FD	501	GTP	C5-C4-N3	-5.65	119.40	128.39
39	UB	501	GTP	C5-C4-N3	-5.65	119.40	128.39
39	NF	501	GTP	C5-C4-N3	-5.64	119.41	128.39
39	RD	501	GTP	C5-C4-N3	-5.64	119.42	128.39
39	BD	501	GTP	C5-C4-N3	-5.64	119.42	128.39
39	WD	501	GTP	C5-C4-N3	-5.63	119.42	128.39
39	VB	501	GTP	C5-C4-N3	-5.63	119.43	128.39
39	TB	501	GTP	C5-C4-N3	-5.63	119.43	128.39
39	PD	501	GTP	N9-C4-N3	5.63	137.21	125.95
39	BJ	501	GTP	N9-C4-N3	5.63	137.21	125.95
39	NH	501	GTP	C5-C4-N3	-5.63	119.44	128.39
39	QL	501	GTP	C5-C4-N3	-5.62	119.44	128.39
39	TN	501	GTP	C5-C4-N3	-5.62	119.44	128.39
39	UJ	501	GTP	C5-C4-N3	-5.62	119.45	128.39
39	ID	501	GTP	C5-C4-N3	-5.62	119.45	128.39
39	RJ	501	GTP	C5-C4-N3	-5.61	119.46	128.39
39	CD	501	GTP	C5-C4-N3	-5.61	119.47	128.39
39	FL	501	GTP	C5-C4-N3	-5.61	119.47	128.39
39	HL	501	GTP	C5-C4-N3	-5.60	119.48	128.39
39	VD	501	GTP	C5-C4-N3	-5.60	119.48	128.39
39	RF	501	GTP	C5-C4-N3	-5.59	119.49	128.39
39	QJ	501	GTP	C5-C4-N3	-5.59	119.49	128.39
39	IH	501	GTP	C5-C4-N3	-5.59	119.50	128.39
39	HD	501	GTP	C5-C4-N3	-5.58	119.51	128.39
39	OJ	501	GTP	C5-C4-N3	-5.58	119.51	128.39
39	QF	501	GTP	C5-C4-N3	-5.58	119.51	128.39
39	DB	501	GTP	C5-C4-N3	-5.58	119.51	128.39
39	AL	501	GTP	C5-C4-N3	-5.57	119.52	128.39
39	KL	501	GTP	C5-C4-N3	-5.57	119.52	128.39
39	OH	501	GTP	C5-C4-N3	-5.57	119.53	128.39
39	JH	501	GTP	C5-C4-N3	-5.56	119.54	128.39
39	RB	501	GTP	C5-C4-N3	-5.56	119.54	128.39
39	UD	501	GTP	C5-C4-N3	-5.56	119.55	128.39
39	AH	501	GTP	C5-C4-N3	-5.56	119.55	128.39
39	IB	501	GTP	C5-C4-N3	-5.55	119.56	128.39
39	CB	501	GTP	C5-C4-N3	-5.55	119.56	128.39
39	UH	501	GTP	C5-C4-N3	-5.55	119.56	128.39
39	GJ	501	GTP	C5-C4-N3	-5.54	119.57	128.39
39	UI	501	GTP	C5-C4-N3	-5.54	119.57	128.39
39	GF	501	GTP	C5-C4-N3	-5.53	119.58	128.39
39	VL	501	GTP	C5-C4-N3	-5.53	119.58	128.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	HH	501	GTP	C5-C4-N3	-5.53	119.59	128.39
39	HB	501	GTP	C5-C4-N3	-5.53	119.59	128.39
39	PB	501	GTP	C5-C4-N3	-5.53	119.59	128.39
39	SD	501	GTP	C5-C4-N3	-5.53	119.59	128.39
39	GB	501	GTP	N9-C4-N3	5.53	137.01	125.95
39	OB	501	GTP	C5-C4-N3	-5.52	119.60	128.39
39	BF	501	GTP	C5-C4-N3	-5.52	119.60	128.39
39	LF	501	GTP	C5-C4-N3	-5.52	119.61	128.39
39	TF	501	GTP	C5-C4-N3	-5.51	119.61	128.39
39	QD	501	GTP	C5-C4-N3	-5.51	119.61	128.39
39	JL	501	GTP	C5-C4-N3	-5.51	119.62	128.39
39	QB	501	GTP	C5-C4-N3	-5.51	119.62	128.39
39	VJ	501	GTP	C5-C4-N3	-5.51	119.62	128.39
39	JF	501	GTP	C5-C4-N3	-5.50	119.63	128.39
39	KJ	501	GTP	C5-C4-N3	-5.50	119.64	128.39
39	SF	501	GTP	C5-C4-N3	-5.50	119.64	128.39
39	NB	501	GTP	C5-C4-N3	-5.49	119.66	128.39
39	OF	501	GTP	C5-C4-N3	-5.48	119.67	128.39
39	EB	501	GTP	C5-C4-N3	-5.47	119.68	128.39
39	BL	501	GTP	C5-C4-N3	-5.47	119.68	128.39
39	JD	501	GTP	C5-C4-N3	-5.47	119.68	128.39
39	MH	501	GTP	C5-C4-N3	-5.47	119.68	128.39
39	DH	501	GTP	C5-C4-N3	-5.46	119.70	128.39
39	GB	501	GTP	C2-N3-C4	5.46	121.70	112.30
39	CJ	501	GTP	C5-C4-N3	-5.45	119.72	128.39
39	OD	501	GTP	C5-C4-N3	-5.45	119.72	128.39
39	EJ	501	GTP	C5-C4-N3	-5.44	119.74	128.39
39	CF	501	GTP	C5-C4-N3	-5.43	119.75	128.39
39	FH	501	GTP	C5-C4-N3	-5.43	119.75	128.39
39	WF	501	GTP	C5-C4-N3	-5.42	119.77	128.39
39	CL	501	GTP	N9-C4-N3	5.41	136.77	125.95
39	VE	501	GTP	C2-N3-C4	5.41	121.61	112.30
39	IF	501	GTP	C5-C4-N3	-5.40	119.80	128.39
39	WL	501	GTP	C5-C4-N3	-5.40	119.80	128.39
39	FB	501	GTP	C5-C4-N3	-5.39	119.81	128.39
39	QH	501	GTP	C5-C4-N3	-5.39	119.82	128.39
39	MB	501	GTP	C5-C4-N3	-5.38	119.83	128.39
39	QG	501	GTP	C2-N3-C4	5.38	121.56	112.30
39	NL	501	GTP	C5-C4-N3	-5.37	119.84	128.39
39	EH	501	GTP	C5-C4-N3	-5.37	119.85	128.39
39	MF	501	GTP	C5-C4-N3	-5.37	119.85	128.39
39	AF	501	GTP	C5-C4-N3	-5.36	119.86	128.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	LL	501	GTP	C5-C4-N3	-5.32	119.92	128.39
39	KD	501	GTP	C5-C4-N3	-5.31	119.93	128.39
39	NJ	501	GTP	C2-N3-C4	5.31	121.44	112.30
39	FL	501	GTP	C2-N3-C4	5.31	121.44	112.30
39	IJ	501	GTP	C5-C4-N3	-5.30	119.95	128.39
39	SK	501	GTP	C5-C4-N3	-5.30	119.96	128.39
39	MJ	501	GTP	C5-C4-N3	-5.30	119.96	128.39
39	HJ	501	GTP	C5-C4-N3	-5.29	119.97	128.39
39	KH	501	GTP	C2-N3-C4	5.28	121.39	112.30
39	FF	501	GTP	C2-N3-C4	5.28	121.39	112.30
39	PH	501	GTP	C2-N3-C4	5.27	121.38	112.30
39	KB	501	GTP	C2-N3-C4	5.27	121.38	112.30
39	SB	501	GTP	N9-C4-N3	5.27	136.48	125.95
39	ND	501	GTP	N9-C4-N3	5.26	136.48	125.95
39	BJ	501	GTP	O4'-C4'-C5'	5.26	126.17	109.33
39	AD	501	GTP	C5-C4-N3	-5.25	120.04	128.39
39	HF	501	GTP	C5-C4-N3	-5.24	120.05	128.39
39	CL	501	GTP	C5-C6-N1	5.24	126.59	113.25
39	EF	501	GTP	N9-C4-N3	5.23	136.41	125.95
39	GH	501	GTP	C2-N3-C4	5.23	121.31	112.30
39	KF	501	GTP	C2-N3-C4	5.23	121.30	112.30
39	RK	501	GTP	C2-N3-C4	5.22	121.30	112.30
39	CL	501	GTP	C4'-O4'-C1'	-5.22	97.94	109.47
39	MD	501	GTP	C5-C4-N3	-5.20	120.11	128.39
39	HE	501	GTP	C2-N3-C4	5.20	121.25	112.30
39	CK	501	GTP	C2-N3-C4	5.19	121.24	112.30
39	EG	501	GTP	C2-N3-C4	5.14	121.16	112.30
39	RH	501	GTP	C2-N3-C4	5.14	121.15	112.30
39	GL	501	GTP	N9-C4-N3	5.13	136.21	125.95
39	CH	501	GTP	N9-C4-N3	5.12	136.19	125.95
39	VC	501	GTP	C2-N3-C4	5.12	121.11	112.30
39	EL	501	GTP	C5-C4-N3	-5.11	120.26	128.39
39	PL	501	GTP	C2-N3-C4	5.10	121.08	112.30
39	IE	501	GTP	C5-C4-N3	-5.09	120.28	128.39
39	IE	501	GTP	C2-N3-C4	5.09	121.07	112.30
39	ED	501	GTP	C2-N3-C4	5.07	121.03	112.30
39	LJ	501	GTP	C2-N3-C4	5.07	121.03	112.30
39	LI	501	GTP	C2-N3-C4	5.06	121.02	112.30
39	TL	501	GTP	C1'-N9-C8	-5.05	112.37	126.73
39	DJ	501	GTP	C2-N3-C4	5.05	121.00	112.30
39	WH	501	GTP	C2-N3-C4	5.05	121.00	112.30
39	HK	501	GTP	C2-N3-C4	5.05	120.99	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	PH	501	GTP	N9-C4-N3	5.04	136.03	125.95
39	PJ	501	GTP	C2-N3-C4	5.04	120.98	112.30
39	DD	501	GTP	N9-C4-N3	5.03	136.01	125.95
39	HD	501	GTP	C2-N3-C4	5.02	120.95	112.30
39	ML	501	GTP	C2-N3-C4	5.02	120.94	112.30
39	EE	501	GTP	C2-N3-C4	5.01	120.94	112.30
39	FJ	501	GTP	C2-N3-C4	5.01	120.93	112.30
39	PF	501	GTP	C2-N3-C4	5.00	120.91	112.30
39	NJ	501	GTP	N9-C4-N3	5.00	135.95	125.95
39	WB	501	GTP	C2-N3-C4	5.00	120.91	112.30
39	OA	501	GTP	C2-N3-C4	4.99	120.89	112.30
39	OC	501	GTP	C2-N3-C4	4.99	120.89	112.30
39	SL	501	GTP	C2-N3-C4	4.98	120.89	112.30
39	OC	501	GTP	C5-C4-N3	-4.98	120.47	128.39
39	DF	501	GTP	C2-N3-C4	4.98	120.87	112.30
39	GJ	501	GTP	C2-N3-C4	4.98	120.87	112.30
39	LE	501	GTP	C5-C4-N3	-4.98	120.47	128.39
39	NI	501	GTP	C2-N3-C4	4.97	120.87	112.30
39	NG	501	GTP	C2-N3-C4	4.96	120.84	112.30
39	JE	501	GTP	C2-N3-C4	4.96	120.83	112.30
39	QL	501	GTP	C2-N3-C4	4.95	120.83	112.30
39	BG	501	GTP	C2-N3-C4	4.95	120.82	112.30
39	UF	501	GTP	C2-N3-C4	4.94	120.81	112.30
39	GH	501	GTP	N9-C4-N3	4.93	135.82	125.95
39	BB	501	GTP	C2-N3-C4	4.93	120.79	112.30
39	FL	501	GTP	N9-C4-N3	4.93	135.81	125.95
39	TI	501	GTP	C2-N3-C4	4.93	120.79	112.30
39	JK	501	GTP	C5-C4-N3	-4.93	120.55	128.39
39	SG	501	GTP	C2-N3-C4	4.93	120.79	112.30
39	UK	501	GTP	C2-N3-C4	4.93	120.79	112.30
39	QF	501	GTP	C2-N3-C4	4.93	120.79	112.30
39	II	501	GTP	C2-N3-C4	4.93	120.78	112.30
39	ND	501	GTP	O4'-C1'-N9	4.92	119.51	108.36
39	NH	501	GTP	C2-N3-C4	4.92	120.77	112.30
39	LK	501	GTP	C5-C4-N3	-4.91	120.57	128.39
39	VF	501	GTP	C2-N3-C4	4.91	120.75	112.30
39	QJ	501	GTP	C2-N3-C4	4.90	120.74	112.30
39	DA	501	GTP	C5-C4-N3	-4.90	120.60	128.39
39	AH	501	GTP	C2-N3-C4	4.89	120.73	112.30
39	OI	501	GTP	C2-N3-C4	4.89	120.72	112.30
39	GA	501	GTP	C2-N3-C4	4.89	120.72	112.30
39	IC	501	GTP	C2-N3-C4	4.88	120.71	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	IH	501	GTP	C2-N3-C4	4.88	120.70	112.30
39	QC	501	GTP	C2-N3-C4	4.88	120.70	112.30
39	WI	501	GTP	C2-N3-C4	4.88	120.70	112.30
39	WJ	501	GTP	C2-N3-C4	4.87	120.69	112.30
39	KA	501	GTP	C2-N3-C4	4.87	120.68	112.30
39	CE	501	GTP	C2-N3-C4	4.86	120.67	112.30
39	LB	501	GTP	C2-N3-C4	4.86	120.67	112.30
39	GD	501	GTP	C2-N3-C4	4.86	120.66	112.30
39	RB	501	GTP	C2-N3-C4	4.85	120.66	112.30
39	VG	501	GTP	C2-N3-C4	4.85	120.66	112.30
39	SG	501	GTP	C5-C4-N3	-4.85	120.67	128.39
39	IM	501	GTP	C2-N3-C4	4.85	120.66	112.30
39	BD	501	GTP	C2-N3-C4	4.85	120.66	112.30
39	VI	501	GTP	C2-N3-C4	4.85	120.66	112.30
39	MK	501	GTP	C2-N3-C4	4.85	120.65	112.30
39	UC	501	GTP	C2-N3-C4	4.85	120.65	112.30
39	LD	501	GTP	C2-N3-C4	4.84	120.64	112.30
39	PL	501	GTP	N9-C4-N3	4.84	135.64	125.95
39	RL	501	GTP	C2-N3-C4	4.84	120.64	112.30
39	AM	501	GTP	C2-N3-C4	4.84	120.63	112.30
39	IL	501	GTP	C2-N3-C4	4.84	120.63	112.30
39	VH	501	GTP	C2-N3-C4	4.83	120.62	112.30
39	EI	501	GTP	C2-N3-C4	4.83	120.62	112.30
39	IG	501	GTP	C2-N3-C4	4.83	120.62	112.30
39	KG	501	GTP	C2-N3-C4	4.83	120.62	112.30
39	AL	501	GTP	C2-N3-C4	4.83	120.62	112.30
39	TD	501	GTP	C2-N3-C4	4.83	120.62	112.30
39	FH	501	GTP	N9-C4-N3	4.83	135.60	125.95
39	AJ	501	GTP	C2-N3-C4	4.83	120.61	112.30
39	JJ	501	GTP	C2-N3-C4	4.83	120.61	112.30
39	TE	501	GTP	C2-N3-C4	4.82	120.61	112.30
39	DG	501	GTP	C2-N3-C4	4.82	120.60	112.30
39	CI	501	GTP	C2-N3-C4	4.82	120.60	112.30
39	KE	501	GTP	C2-N3-C4	4.82	120.60	112.30
39	AB	501	GTP	C2-N3-C4	4.82	120.60	112.30
39	BK	501	GTP	C5-C4-N3	-4.82	120.72	128.39
39	JC	501	GTP	C5-C4-N3	-4.82	120.72	128.39
39	OL	501	GTP	C2-N3-C4	4.82	120.60	112.30
39	BH	501	GTP	C2-N3-C4	4.81	120.58	112.30
39	HG	501	GTP	C2-N3-C4	4.81	120.58	112.30
39	UD	501	GTP	C2-N3-C4	4.81	120.58	112.30
39	BG	501	GTP	C5-C4-N3	-4.81	120.73	128.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	LF	501	GTP	C2-N3-C4	4.81	120.58	112.30
39	RJ	501	GTP	C2-N3-C4	4.80	120.57	112.30
39	KL	501	GTP	C2-N3-C4	4.80	120.57	112.30
39	SF	501	GTP	C2-N3-C4	4.80	120.57	112.30
39	WE	501	GTP	C2-N3-C4	4.80	120.57	112.30
39	KB	501	GTP	N9-C4-N3	4.80	135.55	125.95
39	JH	501	GTP	C2-N3-C4	4.80	120.56	112.30
39	TB	501	GTP	C2-N3-C4	4.80	120.56	112.30
39	VJ	501	GTP	C2-N3-C4	4.80	120.56	112.30
39	SH	501	GTP	C2-N3-C4	4.79	120.56	112.30
39	VB	501	GTP	C2-N3-C4	4.79	120.56	112.30
39	FG	501	GTP	C2-N3-C4	4.79	120.56	112.30
39	HH	501	GTP	C2-N3-C4	4.79	120.56	112.30
39	OF	501	GTP	C2-N3-C4	4.79	120.55	112.30
39	BL	501	GTP	C2-N3-C4	4.79	120.55	112.30
39	TF	501	GTP	C2-N3-C4	4.79	120.55	112.30
39	RD	501	GTP	C2-N3-C4	4.79	120.55	112.30
39	TN	501	GTP	C2-N3-C4	4.78	120.54	112.30
39	NA	501	GTP	C2-N3-C4	4.78	120.54	112.30
39	LL	501	GTP	C2-N3-C4	4.78	120.53	112.30
39	SJ	501	GTP	C2-N3-C4	4.78	120.53	112.30
39	TH	501	GTP	C2-N3-C4	4.77	120.52	112.30
39	JB	501	GTP	C2-N3-C4	4.77	120.52	112.30
39	EK	501	GTP	C5-C4-N3	-4.77	120.80	128.39
39	CH	501	GTP	O4'-C1'-N9	4.77	119.16	108.36
39	RG	501	GTP	C2-N3-C4	4.77	120.51	112.30
39	OD	501	GTP	C2-N3-C4	4.77	120.51	112.30
39	NB	501	GTP	C2-N3-C4	4.77	120.51	112.30
39	NF	501	GTP	C2-N3-C4	4.76	120.50	112.30
39	RF	501	GTP	C2-N3-C4	4.76	120.50	112.30
39	UL	501	GTP	C2-N3-C4	4.76	120.50	112.30
39	WD	501	GTP	C2-N3-C4	4.76	120.50	112.30
39	OJ	501	GTP	C2-N3-C4	4.76	120.50	112.30
39	PM	501	GTP	C2-N3-C4	4.76	120.50	112.30
39	QD	501	GTP	C2-N3-C4	4.76	120.50	112.30
39	UE	501	GTP	C2-N3-C4	4.76	120.50	112.30
39	HG	501	GTP	C5-C4-N3	-4.76	120.82	128.39
39	OH	501	GTP	C2-N3-C4	4.76	120.49	112.30
39	JF	501	GTP	C2-N3-C4	4.75	120.49	112.30
39	WA	501	GTP	C2-N3-C4	4.75	120.49	112.30
39	KJ	501	GTP	C2-N3-C4	4.75	120.49	112.30
39	FD	501	GTP	C2-N3-C4	4.75	120.48	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	JD	501	GTP	C2-N3-C4	4.75	120.48	112.30
39	OG	501	GTP	C2-N3-C4	4.75	120.48	112.30
39	SD	501	GTP	C2-N3-C4	4.75	120.48	112.30
39	WK	501	GTP	C2-N3-C4	4.75	120.48	112.30
39	ND	501	GTP	C2-N3-C4	4.75	120.47	112.30
39	LI	501	GTP	C5-C4-N3	-4.74	120.84	128.39
39	FE	501	GTP	C2-N3-C4	4.74	120.47	112.30
39	VL	501	GTP	C2-N3-C4	4.74	120.47	112.30
39	QB	501	GTP	C2-N3-C4	4.74	120.47	112.30
39	SC	501	GTP	C5-C4-N3	-4.74	120.84	128.39
39	PK	501	GTP	C2-N3-C4	4.74	120.46	112.30
39	JL	501	GTP	C2-N3-C4	4.74	120.46	112.30
39	CB	501	GTP	C2-N3-C4	4.74	120.46	112.30
39	UJ	501	GTP	C2-N3-C4	4.73	120.45	112.30
39	MG	501	GTP	C2-N3-C4	4.73	120.45	112.30
39	UG	501	GTP	C2-N3-C4	4.73	120.45	112.30
39	CF	501	GTP	C2-N3-C4	4.73	120.45	112.30
39	ML	501	GTP	N9-C4-N3	4.73	135.41	125.95
39	MD	502	GTP	C2-N3-C4	4.73	120.45	112.30
39	LH	501	GTP	C2-N3-C4	4.73	120.44	112.30
39	BF	501	GTP	C2-N3-C4	4.73	120.44	112.30
39	HJ	501	GTP	C2-N3-C4	4.73	120.44	112.30
39	OB	501	GTP	C2-N3-C4	4.73	120.44	112.30
39	DL	501	GTP	C2-N3-C4	4.72	120.44	112.30
39	KD	501	GTP	C2-N3-C4	4.72	120.43	112.30
39	WF	501	GTP	C2-N3-C4	4.72	120.43	112.30
39	FJ	501	GTP	N9-C4-N3	4.72	135.38	125.95
39	PA	501	GTP	C2-N3-C4	4.71	120.42	112.30
39	RM	501	GTP	C2-N3-C4	4.71	120.42	112.30
39	EH	501	GTP	C2-N3-C4	4.71	120.42	112.30
39	TG	501	GTP	C2-N3-C4	4.71	120.41	112.30
39	EJ	501	GTP	C2-N3-C4	4.70	120.40	112.30
39	PJ	501	GTP	N9-C4-N3	4.70	135.36	125.95
39	TK	501	GTP	C2-N3-C4	4.70	120.40	112.30
39	HC	501	GTP	C2-N3-C4	4.70	120.40	112.30
39	MH	501	GTP	C2-N3-C4	4.70	120.39	112.30
39	HB	501	GTP	C2-N3-C4	4.70	120.39	112.30
39	MB	501	GTP	C2-N3-C4	4.70	120.39	112.30
39	IB	501	GTP	C2-N3-C4	4.69	120.39	112.30
39	PG	501	GTP	C2-N3-C4	4.69	120.38	112.30
39	MF	501	GTP	C2-N3-C4	4.69	120.38	112.30
39	MJ	501	GTP	C2-N3-C4	4.69	120.38	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	PI	501	GTP	C2-N3-C4	4.69	120.38	112.30
39	WL	501	GTP	C2-N3-C4	4.69	120.38	112.30
39	FE	501	GTP	C5-C4-N3	-4.69	120.93	128.39
39	EB	501	GTP	C2-N3-C4	4.69	120.37	112.30
39	TE	501	GTP	C5-C4-N3	-4.69	120.93	128.39
39	TM	501	GTP	C2-N3-C4	4.69	120.37	112.30
39	PB	501	GTP	C2-N3-C4	4.68	120.36	112.30
39	TL	501	GTP	N2-C2-N3	4.68	128.80	119.67
39	VK	501	GTP	C2-N3-C4	4.68	120.36	112.30
39	HE	501	GTP	C5-C4-N3	-4.68	120.95	128.39
39	DB	501	GTP	C2-N3-C4	4.68	120.35	112.30
39	NC	501	GTP	C2-N3-C4	4.68	120.35	112.30
39	WC	501	GTP	C5-C4-N3	-4.67	120.95	128.39
39	VD	501	GTP	C2-N3-C4	4.67	120.35	112.30
39	CJ	501	GTP	C2-N3-C4	4.67	120.34	112.30
39	HL	501	GTP	C2-N3-C4	4.67	120.34	112.30
39	RI	501	GTP	C2-N3-C4	4.67	120.33	112.30
39	JA	501	GTP	C2-N3-C4	4.66	120.33	112.30
39	HF	501	GTP	C2-N3-C4	4.66	120.33	112.30
39	UA	501	GTP	C2-N3-C4	4.66	120.33	112.30
39	SI	501	GTP	C2-N3-C4	4.66	120.33	112.30
39	NK	501	GTP	C2-N3-C4	4.66	120.33	112.30
39	MI	501	GTP	C5-C4-N3	-4.66	120.97	128.39
39	QI	501	GTP	C5-C4-N3	-4.66	120.97	128.39
39	CD	501	GTP	C2-N3-C4	4.66	120.32	112.30
39	LA	501	GTP	C5-C4-N3	-4.66	120.98	128.39
39	AE	501	GTP	C2-N3-C4	4.66	120.32	112.30
39	IJ	501	GTP	C2-N3-C4	4.66	120.32	112.30
39	AF	501	GTP	C2-N3-C4	4.65	120.31	112.30
39	KK	501	GTP	C2-N3-C4	4.65	120.31	112.30
39	QH	501	GTP	C2-N3-C4	4.65	120.31	112.30
39	GF	501	GTP	C2-N3-C4	4.65	120.31	112.30
39	JC	501	GTP	C2-N3-C4	4.65	120.31	112.30
39	SK	501	GTP	C2-N3-C4	4.65	120.30	112.30
39	WC	501	GTP	C2-N3-C4	4.65	120.30	112.30
39	RH	501	GTP	N9-C4-N3	4.65	135.24	125.95
39	UG	501	GTP	C5-C4-N3	-4.64	121.00	128.39
39	IF	501	GTP	C2-N3-C4	4.64	120.30	112.30
39	NE	501	GTP	C2-N3-C4	4.63	120.28	112.30
39	ID	501	GTP	C2-N3-C4	4.63	120.28	112.30
39	DA	501	GTP	C2-N3-C4	4.63	120.28	112.30
39	PF	501	GTP	N9-C4-N3	4.63	135.22	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	GK	501	GTP	C5-C4-N3	-4.63	121.02	128.39
39	RI	501	GTP	C5-C4-N3	-4.63	121.02	128.39
39	MC	501	GTP	C2-N3-C4	4.62	120.26	112.30
39	PE	501	GTP	C2-N3-C4	4.62	120.25	112.30
39	HK	501	GTP	C5-C4-N3	-4.62	121.04	128.39
39	IK	501	GTP	C2-N3-C4	4.62	120.25	112.30
39	KF	501	GTP	N9-C4-N3	4.62	135.18	125.95
39	QL	502	GTP	C2-N3-C4	4.62	120.25	112.30
39	LG	501	GTP	C2-N3-C4	4.62	120.25	112.30
39	GG	501	GTP	C2-N3-C4	4.61	120.25	112.30
39	BB	501	GTP	N9-C4-N3	4.61	135.18	125.95
39	DH	501	GTP	C2-N3-C4	4.61	120.24	112.30
39	AM	501	GTP	C5-C4-N3	-4.61	121.06	128.39
39	VA	501	GTP	C5-C4-N3	-4.61	121.06	128.39
39	DG	501	GTP	C5-C4-N3	-4.60	121.06	128.39
39	NL	501	GTP	C2-N3-C4	4.60	120.23	112.30
39	BE	501	GTP	C5-C4-N3	-4.60	121.07	128.39
39	PG	501	GTP	C5-C4-N3	-4.60	121.07	128.39
39	UB	501	GTP	C2-N3-C4	4.60	120.22	112.30
39	AG	501	GTP	C5-C4-N3	-4.60	121.07	128.39
39	FB	501	GTP	C2-N3-C4	4.60	120.22	112.30
39	MK	501	GTP	C5-C4-N3	-4.59	121.08	128.39
39	KC	501	GTP	C2-N3-C4	4.59	120.21	112.30
39	LE	501	GTP	C2-N3-C4	4.59	120.21	112.30
39	RC	501	GTP	C2-N3-C4	4.59	120.21	112.30
39	HI	501	GTP	C2-N3-C4	4.59	120.20	112.30
39	BC	501	GTP	C5-C4-N3	-4.59	121.09	128.39
39	OK	501	GTP	C5-C4-N3	-4.59	121.09	128.39
39	GK	501	GTP	C2-N3-C4	4.59	120.20	112.30
39	UH	501	GTP	C2-N3-C4	4.59	120.20	112.30
39	SE	501	GTP	C5-C4-N3	-4.59	121.09	128.39
39	WB	501	GTP	N9-C4-N3	4.58	135.12	125.95
39	JI	501	GTP	C2-N3-C4	4.58	120.19	112.30
39	VF	501	GTP	N9-C4-N3	4.58	135.11	125.95
39	FH	501	GTP	C2-N3-C4	4.58	120.18	112.30
39	KC	501	GTP	C5-C4-N3	-4.57	121.11	128.39
39	VK	501	GTP	C5-C4-N3	-4.57	121.11	128.39
39	AC	501	GTP	C5-C4-N3	-4.57	121.12	128.39
39	AD	501	GTP	C2-N3-C4	4.57	120.17	112.30
39	GA	501	GTP	C5-C4-N3	-4.57	121.12	128.39
39	IA	501	GTP	C5-C4-N3	-4.57	121.12	128.39
39	WG	501	GTP	C5-C4-N3	-4.56	121.13	128.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	MM	501	GTP	C2-N3-C4	4.56	120.16	112.30
39	QD	502	GTP	C2-N3-C4	4.55	120.14	112.30
39	LK	501	GTP	C2-N3-C4	4.55	120.13	112.30
39	DE	501	GTP	C2-N3-C4	4.54	120.12	112.30
39	AG	501	GTP	C2-N3-C4	4.54	120.12	112.30
39	AI	501	GTP	C5-C4-N3	-4.54	121.16	128.39
39	WH	501	GTP	N9-C4-N3	4.54	135.03	125.95
39	CG	501	GTP	C5-C4-N3	-4.54	121.17	128.39
39	MD	501	GTP	C2-N3-C4	4.54	120.11	112.30
39	ED	501	GTP	N9-C4-N3	4.54	135.02	125.95
39	GI	501	GTP	C2-N3-C4	4.54	120.11	112.30
39	NA	501	GTP	C5-C4-N3	-4.53	121.18	128.39
39	DE	501	GTP	C5-C4-N3	-4.53	121.18	128.39
39	QD	502	GTP	C5-C4-N3	-4.53	121.18	128.39
39	EL	501	GTP	C2-N3-C4	4.52	120.09	112.30
39	OG	501	GTP	C5-C4-N3	-4.52	121.20	128.39
39	KK	501	GTP	C5-C4-N3	-4.51	121.20	128.39
39	JE	501	GTP	C5-C4-N3	-4.51	121.21	128.39
39	CM	501	GTP	C2-N3-C4	4.51	120.07	112.30
39	UF	501	GTP	N9-C4-N3	4.51	134.97	125.95
39	RE	501	GTP	C2-N3-C4	4.51	120.06	112.30
39	EF	501	GTP	C2-N3-C4	4.51	120.06	112.30
39	JI	501	GTP	C5-C4-N3	-4.50	121.22	128.39
39	IK	501	GTP	C5-C4-N3	-4.50	121.23	128.39
39	SC	501	GTP	C2-N3-C4	4.49	120.04	112.30
39	LC	501	GTP	C2-N3-C4	4.49	120.04	112.30
39	FI	501	GTP	C2-N3-C4	4.49	120.03	112.30
39	FK	501	GTP	C2-N3-C4	4.49	120.03	112.30
39	KG	501	GTP	C5-C4-N3	-4.49	121.25	128.39
39	PI	501	GTP	C5-C4-N3	-4.48	121.25	128.39
39	LJ	501	GTP	N9-C4-N3	4.48	134.92	125.95
39	KH	501	GTP	N9-C4-N3	4.48	134.91	125.95
39	PD	501	GTP	O4'-C1'-N9	4.48	118.51	108.36
39	AC	501	GTP	C2-N3-C4	4.48	120.02	112.30
39	TK	501	GTP	C5-C4-N3	-4.48	121.26	128.39
39	EA	501	GTP	C2-N3-C4	4.48	120.02	112.30
39	BI	501	GTP	C2-N3-C4	4.48	120.01	112.30
39	LD	501	GTP	N9-C4-N3	4.47	134.89	125.95
39	UC	501	GTP	C5-C4-N3	-4.47	121.28	128.39
39	WI	501	GTP	C5-C4-N3	-4.47	121.28	128.39
39	TJ	501	GTP	N1-C2-N3	-4.46	115.15	123.32
39	CH	501	GTP	C2-N3-C4	4.46	119.99	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	KA	501	GTP	C5-C4-N3	-4.46	121.29	128.39
39	WA	501	GTP	C5-C4-N3	-4.46	121.29	128.39
39	NG	501	GTP	C5-C4-N3	-4.46	121.29	128.39
39	DJ	501	GTP	N9-C4-N3	4.46	134.87	125.95
39	CI	501	GTP	C5-C4-N3	-4.45	121.30	128.39
39	DF	501	GTP	N9-C4-N3	4.45	134.85	125.95
39	JK	501	GTP	C2-N3-C4	4.45	119.96	112.30
39	PC	501	GTP	C2-N3-C4	4.44	119.95	112.30
39	KI	501	GTP	C2-N3-C4	4.44	119.95	112.30
39	MM	501	GTP	C5-C4-N3	-4.44	121.32	128.39
39	CC	501	GTP	C2-N3-C4	4.44	119.94	112.30
39	NK	501	GTP	C5-C4-N3	-4.44	121.33	128.39
39	LG	501	GTP	C5-C4-N3	-4.44	121.33	128.39
39	RC	501	GTP	C5-C4-N3	-4.43	121.33	128.39
39	VG	501	GTP	C5-C4-N3	-4.43	121.34	128.39
39	RE	501	GTP	C5-C4-N3	-4.43	121.35	128.39
39	KE	501	GTP	C5-C4-N3	-4.41	121.37	128.39
39	MC	501	GTP	C5-C4-N3	-4.41	121.37	128.39
39	IA	501	GTP	C2-N3-C4	4.41	119.89	112.30
39	NC	501	GTP	C5-C4-N3	-4.41	121.38	128.39
39	OA	501	GTP	C5-C4-N3	-4.41	121.38	128.39
39	CM	501	GTP	C5-C4-N3	-4.40	121.39	128.39
39	AB	501	GTP	N9-C4-N3	4.40	134.75	125.95
39	SL	501	GTP	N9-C4-N3	4.40	134.75	125.95
39	QL	502	GTP	C5-C4-N3	-4.40	121.39	128.39
39	GD	501	GTP	N9-C4-N3	4.40	134.75	125.95
39	MI	501	GTP	C2-N3-C4	4.40	119.87	112.30
39	PK	501	GTP	C5-C4-N3	-4.38	121.43	128.39
39	EC	501	GTP	C1'-N9-C8	4.37	139.13	126.73
39	QC	501	GTP	C5-C4-N3	-4.36	121.45	128.39
39	DK	501	GTP	C2-N3-C4	4.36	119.81	112.30
39	UA	501	GTP	C5-C4-N3	-4.36	121.45	128.39
39	VI	501	GTP	C5-C4-N3	-4.36	121.45	128.39
39	RG	501	GTP	C5-C4-N3	-4.34	121.47	128.39
39	JA	501	GTP	C5-C4-N3	-4.34	121.48	128.39
39	BJ	501	GTP	C2-N1-C6	-4.33	117.25	125.11
39	EE	501	GTP	C5-C4-N3	-4.33	121.50	128.39
39	IL	501	GTP	N9-C4-N3	4.33	134.61	125.95
39	TC	501	GTP	C2-N3-C4	4.33	119.75	112.30
39	RK	501	GTP	C5-C4-N3	-4.32	121.51	128.39
39	KI	501	GTP	C5-C4-N3	-4.32	121.51	128.39
39	VH	501	GTP	N9-C4-N3	4.32	134.59	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	GE	501	GTP	C2-N3-C4	4.32	119.74	112.30
39	DD	501	GTP	O4'-C1'-N9	4.31	118.13	108.36
39	WJ	501	GTP	N9-C4-N3	4.31	134.58	125.95
39	BM	501	GTP	C1'-N9-C8	4.31	138.98	126.73
39	CE	501	GTP	C5-C4-N3	-4.31	121.53	128.39
39	GI	501	GTP	C5-C4-N3	-4.31	121.53	128.39
39	AI	501	GTP	C2-N3-C4	4.31	119.72	112.30
39	SE	501	GTP	C2-N3-C4	4.31	119.72	112.30
39	MG	501	GTP	C5-C4-N3	-4.31	121.53	128.39
39	UE	501	GTP	C5-C4-N3	-4.31	121.54	128.39
39	RM	501	GTP	C5-C4-N3	-4.30	121.54	128.39
39	CC	501	GTP	C5-C4-N3	-4.30	121.54	128.39
39	FG	501	GTP	C5-C4-N3	-4.30	121.55	128.39
39	TD	501	GTP	N9-C4-N3	4.30	134.55	125.95
39	IG	501	GTP	C5-C4-N3	-4.30	121.55	128.39
39	WE	501	GTP	C5-C4-N3	-4.29	121.56	128.39
39	TG	501	GTP	C5-C4-N3	-4.29	121.56	128.39
39	FD	501	GTP	N9-C4-N3	4.29	134.53	125.95
39	TM	501	GTP	C5-C4-N3	-4.29	121.57	128.39
39	DL	501	GTP	N9-C4-N3	4.28	134.52	125.95
39	CG	501	GTP	C2-N3-C4	4.28	119.67	112.30
39	JG	501	GTP	C5-C4-N3	-4.28	121.58	128.39
39	VA	501	GTP	C2-N3-C4	4.28	119.67	112.30
39	HC	501	GTP	C5-C4-N3	-4.28	121.58	128.39
39	BJ	501	GTP	C5-C6-N1	4.28	124.13	113.25
39	LB	501	GTP	N9-C4-N3	4.27	134.50	125.95
39	TI	501	GTP	C5-C4-N3	-4.27	121.59	128.39
39	BC	501	GTP	C2-N3-C4	4.26	119.64	112.30
39	HB	501	GTP	N9-C4-N3	4.26	134.48	125.95
39	FJ	501	GTP	O4'-C1'-N9	4.26	118.02	108.36
39	DK	501	GTP	C5-C4-N3	-4.26	121.61	128.39
39	CK	501	GTP	C5-C4-N3	-4.26	121.62	128.39
39	PC	501	GTP	C5-C4-N3	-4.26	121.62	128.39
39	FL	501	GTP	O4'-C1'-N9	4.26	118.00	108.36
39	UL	501	GTP	N9-C4-N3	4.25	134.46	125.95
39	BM	501	GTP	N2-C2-N1	4.25	125.73	116.76
39	WK	501	GTP	C5-C4-N3	-4.24	121.64	128.39
39	RB	501	GTP	N9-C4-N3	4.24	134.44	125.95
39	UK	501	GTP	C5-C4-N3	-4.24	121.64	128.39
39	FF	501	GTP	N9-C4-N3	4.24	134.43	125.95
39	BD	501	GTP	N9-C4-N3	4.23	134.42	125.95
39	EF	501	GTP	O4'-C1'-N9	4.22	117.92	108.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	BM	501	GTP	C1'-N9-C4	-4.22	114.02	126.49
39	LA	501	GTP	C2-N3-C4	4.21	119.56	112.30
39	HD	501	GTP	N9-C4-N3	4.21	134.37	125.95
39	VB	501	GTP	N9-C4-N3	4.20	134.34	125.95
39	IH	501	GTP	N9-C4-N3	4.19	134.34	125.95
39	BM	501	GTP	C2'-C1'-N9	4.19	124.91	113.25
39	SJ	501	GTP	N9-C4-N3	4.19	134.33	125.95
39	AJ	501	GTP	N9-C4-N3	4.19	134.32	125.95
39	CL	501	GTP	C2-N1-C6	-4.18	117.52	125.11
39	SI	501	GTP	C5-C4-N3	-4.18	121.73	128.39
39	RB	501	GTP	O4'-C1'-N9	4.18	117.84	108.36
39	GG	501	GTP	C5-C4-N3	-4.18	121.74	128.39
39	DI	501	GTP	C2-N3-C4	4.18	119.50	112.30
39	SF	501	GTP	N9-C4-N3	4.18	134.31	125.95
39	CD	501	GTP	N9-C4-N3	4.17	134.30	125.95
39	LH	501	GTP	N9-C4-N3	4.17	134.29	125.95
39	BH	501	GTP	N9-C4-N3	4.17	134.28	125.95
39	MD	502	GTP	C5-C4-N3	-4.16	121.77	128.39
39	JB	501	GTP	N9-C4-N3	4.16	134.26	125.95
39	NF	501	GTP	N9-C4-N3	4.15	134.26	125.95
39	TL	501	GTP	C2-N3-C4	4.15	119.45	112.30
39	NE	501	GTP	C5-C4-N3	-4.15	121.79	128.39
39	IM	501	GTP	C5-C4-N3	-4.14	121.80	128.39
39	LC	501	GTP	C5-C4-N3	-4.14	121.80	128.39
39	TL	501	GTP	C1'-N9-C4	4.14	138.72	126.49
39	FI	501	GTP	C5-C4-N3	-4.14	121.80	128.39
39	JJ	501	GTP	N9-C4-N3	4.14	134.22	125.95
39	PA	501	GTP	C5-C4-N3	-4.13	121.81	128.39
39	SH	501	GTP	N9-C4-N3	4.13	134.21	125.95
39	HL	501	GTP	N9-C4-N3	4.13	134.21	125.95
39	VD	501	GTP	N9-C4-N3	4.13	134.21	125.95
39	GF	501	GTP	N9-C4-N3	4.13	134.20	125.95
39	FC	501	GTP	C5-C4-N3	-4.12	121.84	128.39
39	WG	501	GTP	C2-N3-C4	4.11	119.38	112.30
39	OI	501	GTP	C5-C4-N3	-4.11	121.85	128.39
39	TC	501	GTP	C5-C4-N3	-4.11	121.86	128.39
39	EI	501	GTP	C5-C4-N3	-4.10	121.86	128.39
39	RJ	501	GTP	N9-C4-N3	4.10	134.15	125.95
39	EG	501	GTP	C5-C4-N3	-4.10	121.87	128.39
39	NI	501	GTP	C5-C4-N3	-4.10	121.87	128.39
39	HI	501	GTP	C5-C4-N3	-4.10	121.87	128.39
39	GJ	501	GTP	N9-C4-N3	4.09	134.13	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	RL	501	GTP	N9-C4-N3	4.09	134.13	125.95
39	PM	501	GTP	C6-C5-N7	4.08	137.72	130.29
39	TH	501	GTP	N9-C4-N3	4.08	134.11	125.95
39	DH	501	GTP	N9-C4-N3	4.08	134.11	125.95
39	BM	501	GTP	C2-N3-C4	4.08	119.32	112.30
39	AK	501	GTP	C2-N3-C4	4.07	119.32	112.30
39	DB	501	GTP	N9-C4-N3	4.07	134.10	125.95
39	GC	501	GTP	C2-N3-C4	4.07	119.31	112.30
39	AE	501	GTP	C5-C4-N3	-4.07	121.91	128.39
39	VC	501	GTP	C5-C4-N3	-4.07	121.91	128.39
39	QK	501	GTP	C2-N3-C4	4.06	119.30	112.30
39	FC	501	GTP	C2-N3-C4	4.06	119.29	112.30
39	OL	501	GTP	N9-C4-N3	4.06	134.06	125.95
39	GE	501	GTP	C5-C4-N3	-4.05	121.94	128.39
39	JF	501	GTP	N9-C4-N3	4.04	134.04	125.95
39	BI	501	GTP	C5-C4-N3	-4.04	121.96	128.39
39	QI	501	GTP	C2-N3-C4	4.03	119.25	112.30
39	AL	501	GTP	N9-C4-N3	4.03	134.02	125.95
39	CB	501	GTP	N9-C4-N3	4.03	134.01	125.95
39	WD	501	GTP	N9-C4-N3	4.03	134.00	125.95
39	UJ	501	GTP	N9-C4-N3	4.02	134.00	125.95
39	BM	501	GTP	O2B-PB-O3A	4.02	118.13	107.27
39	ID	501	GTP	N9-C4-N3	4.02	133.98	125.95
39	BF	501	GTP	N9-C4-N3	4.01	133.98	125.95
39	II	501	GTP	C5-C4-N3	-4.01	122.01	128.39
39	IB	501	GTP	N9-C4-N3	4.01	133.97	125.95
39	TB	501	GTP	N9-C4-N3	4.01	133.97	125.95
39	PB	501	GTP	N9-C4-N3	4.01	133.97	125.95
39	UB	501	GTP	N9-C4-N3	4.00	133.96	125.95
39	KB	501	GTP	O4'-C1'-N9	4.00	117.43	108.36
39	DD	501	GTP	C2-N3-C4	4.00	119.19	112.30
39	JD	501	GTP	N9-C4-N3	4.00	133.95	125.95
39	RD	501	GTP	N9-C4-N3	4.00	133.95	125.95
39	EC	501	GTP	C1'-N9-C4	-3.99	114.70	126.49
39	RF	501	GTP	N9-C4-N3	3.99	133.93	125.95
39	PE	501	GTP	C5-C4-N3	-3.99	122.04	128.39
39	BK	501	GTP	O2B-PB-O3A	3.98	118.02	107.27
39	EA	501	GTP	C5-C4-N3	-3.97	122.06	128.39
39	NL	501	GTP	N9-C4-N3	3.97	133.90	125.95
39	TN	501	GTP	N9-C4-N3	3.97	133.90	125.95
39	VL	501	GTP	N9-C4-N3	3.97	133.90	125.95
39	IC	501	GTP	C5-C4-N3	-3.97	122.07	128.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	GB	501	GTP	N1-C2-N3	-3.97	116.06	123.32
39	ND	501	GTP	C2-N1-C6	-3.96	117.92	125.11
39	OE	501	GTP	C2-N3-C4	3.96	119.12	112.30
39	SD	501	GTP	N9-C4-N3	3.96	133.86	125.95
39	EB	501	GTP	N9-C4-N3	3.96	133.86	125.95
39	NH	501	GTP	N9-C4-N3	3.95	133.85	125.95
39	OJ	501	GTP	N9-C4-N3	3.95	133.84	125.95
39	FB	501	GTP	N9-C4-N3	3.94	133.84	125.95
39	WB	501	GTP	O4'-C1'-N9	3.94	117.28	108.36
39	HH	501	GTP	N9-C4-N3	3.93	133.82	125.95
39	UB	501	GTP	O4'-C1'-N9	3.93	117.27	108.36
39	EK	501	GTP	C2-N3-C4	3.93	119.07	112.30
39	VJ	501	GTP	N9-C4-N3	3.93	133.81	125.95
39	UH	501	GTP	N9-C4-N3	3.92	133.79	125.95
39	PF	501	GTP	O4'-C1'-N9	3.92	117.25	108.36
39	SF	501	GTP	O4'-C1'-N9	3.92	117.24	108.36
39	KL	501	GTP	N9-C4-N3	3.92	133.79	125.95
39	LF	501	GTP	N9-C4-N3	3.92	133.79	125.95
39	JL	501	GTP	N9-C4-N3	3.91	133.77	125.95
39	QD	501	GTP	N9-C4-N3	3.91	133.76	125.95
39	TJ	501	GTP	N2-C2-N3	3.90	127.29	119.67
39	QB	501	GTP	N9-C4-N3	3.90	133.74	125.95
39	OF	501	GTP	N9-C4-N3	3.89	133.74	125.95
39	BE	501	GTP	C2-N3-C4	3.89	119.00	112.30
39	IF	501	GTP	N9-C4-N3	3.88	133.71	125.95
39	OB	501	GTP	N9-C4-N3	3.87	133.70	125.95
39	EJ	501	GTP	N9-C4-N3	3.87	133.70	125.95
39	HA	501	GTP	C2-N3-C4	3.87	118.96	112.30
39	BK	501	GTP	C2-N3-C4	3.86	118.95	112.30
39	BL	501	GTP	N9-C4-N3	3.86	133.67	125.95
39	KJ	501	GTP	N9-C4-N3	3.86	133.67	125.95
39	QJ	501	GTP	N9-C4-N3	3.86	133.67	125.95
39	JH	501	GTP	N9-C4-N3	3.86	133.66	125.95
39	WF	501	GTP	N9-C4-N3	3.86	133.66	125.95
39	MH	501	GTP	N9-C4-N3	3.86	133.66	125.95
39	OH	501	GTP	N9-C4-N3	3.86	133.66	125.95
39	UI	501	GTP	C2-N3-C4	3.85	118.94	112.30
39	UD	501	GTP	N9-C4-N3	3.85	133.65	125.95
39	JG	501	GTP	C2-N3-C4	3.84	118.92	112.30
39	FK	501	GTP	C5-C4-N3	-3.84	122.28	128.39
39	MF	501	GTP	N9-C4-N3	3.83	133.62	125.95
39	TJ	501	GTP	C1'-N9-C8	-3.82	115.87	126.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	NB	501	GTP	N9-C4-N3	3.82	133.60	125.95
39	QL	501	GTP	N9-C4-N3	3.82	133.59	125.95
39	CF	501	GTP	N9-C4-N3	3.82	133.59	125.95
39	AF	501	GTP	N9-C4-N3	3.82	133.58	125.95
39	QF	501	GTP	N9-C4-N3	3.81	133.58	125.95
39	QI	501	GTP	C4-C5-N7	-3.81	104.63	110.67
39	QH	501	GTP	N9-C4-N3	3.81	133.56	125.95
39	MB	501	GTP	N9-C4-N3	3.80	133.55	125.95
39	QI	501	GTP	O6-C6-N1	-3.80	112.97	120.11
39	JG	501	GTP	C8-N7-C5	3.80	111.03	104.26
39	HJ	501	GTP	N9-C4-N3	3.79	133.54	125.95
39	JG	501	GTP	C4-C5-N7	-3.79	104.66	110.67
39	EH	501	GTP	N9-C4-N3	3.78	133.52	125.95
39	CL	501	GTP	N1-C2-N3	-3.78	116.41	123.32
39	OD	501	GTP	N9-C4-N3	3.77	133.50	125.95
39	UI	501	GTP	O6-C6-N1	-3.76	113.04	120.11
39	HF	501	GTP	N9-C4-N3	3.76	133.48	125.95
39	IC	501	GTP	C6-C5-N7	3.76	137.13	130.29
39	MJ	501	GTP	N9-C4-N3	3.76	133.47	125.95
39	DI	501	GTP	C6-C5-N7	3.75	137.12	130.29
39	TL	501	GTP	C4'-O4'-C1'	-3.75	101.19	109.47
39	WL	501	GTP	N9-C4-N3	3.74	133.44	125.95
39	EC	501	GTP	C2-N3-C4	3.74	118.74	112.30
39	CJ	501	GTP	N9-C4-N3	3.74	133.43	125.95
39	SM	501	GTP	C6-C5-N7	3.73	137.08	130.29
39	BJ	501	GTP	N1-C2-N3	-3.73	116.49	123.32
39	GC	501	GTP	C5-C4-N3	-3.73	122.45	128.39
39	VC	501	GTP	C6-C5-N7	3.73	137.07	130.29
39	MD	501	GTP	N9-C4-N3	3.71	133.38	125.95
39	EL	501	GTP	N9-C4-N3	3.70	133.36	125.95
39	QG	501	GTP	N1-C2-N3	-3.70	116.55	123.32
39	FA	501	GTP	C2-N3-C4	3.70	118.67	112.30
39	RH	501	GTP	O4'-C1'-N9	3.69	116.71	108.36
39	NC	501	GTP	O2B-PB-O3A	3.68	117.22	107.27
39	LL	501	GTP	N9-C4-N3	3.68	133.30	125.95
39	UH	501	GTP	O4'-C1'-N9	3.67	116.68	108.36
39	AH	501	GTP	N9-C4-N3	3.67	133.29	125.95
39	DI	501	GTP	C5-C4-N3	-3.66	122.57	128.39
39	FH	501	GTP	O6-C6-C5	-3.65	116.91	126.53
39	IJ	501	GTP	N9-C4-N3	3.64	133.23	125.95
39	UF	501	GTP	O4'-C1'-N9	3.63	116.59	108.36
39	KD	501	GTP	N9-C4-N3	3.62	133.19	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	TF	501	GTP	N9-C4-N3	3.62	133.18	125.95
39	SB	501	GTP	O4'-C1'-N9	3.61	116.55	108.36
39	ML	501	GTP	O4'-C1'-N9	3.61	116.53	108.36
39	RI	501	GTP	O2B-PB-O3A	3.60	117.01	107.27
39	PD	501	GTP	N1-C2-N3	-3.60	116.73	123.32
39	II	501	GTP	C6-C5-N7	3.59	136.82	130.29
39	IC	501	GTP	O2B-PB-O3A	3.58	116.96	107.27
39	LD	501	GTP	O4'-C1'-N9	3.58	116.47	108.36
39	BI	501	GTP	O6-C6-N1	-3.58	113.38	120.11
39	SB	501	GTP	N1-C2-N3	-3.58	116.77	123.32
39	FK	501	GTP	O2B-PB-O3A	3.58	116.95	107.27
39	CC	501	GTP	O2B-PB-O3A	3.58	116.94	107.27
39	GL	501	GTP	O4'-C1'-N9	3.58	116.46	108.36
39	AC	501	GTP	O2B-PB-O3A	3.58	116.94	107.27
39	DD	501	GTP	C2-N1-C6	-3.57	118.64	125.11
39	QG	501	GTP	C3'-C2'-C1'	3.57	108.21	101.46
39	AD	501	GTP	N9-C4-N3	3.57	133.08	125.95
39	DI	501	GTP	O6-C6-N1	-3.57	113.41	120.11
39	OE	501	GTP	C6-C5-N7	3.56	136.76	130.29
39	UI	501	GTP	O2B-PB-O3A	3.56	116.89	107.27
39	UI	501	GTP	C3'-C2'-C1'	3.55	108.19	101.46
39	GL	501	GTP	N1-C2-N3	-3.54	116.83	123.32
39	DC	501	GTP	C2-N3-C4	3.54	118.39	112.30
39	JG	501	GTP	N9-C8-N7	-3.53	106.85	113.40
39	HA	501	GTP	O2B-PB-O3A	3.53	116.81	107.27
39	IB	501	GTP	O4'-C1'-N9	3.53	116.35	108.36
39	CH	501	GTP	C2-N1-C6	-3.52	118.73	125.11
39	FH	501	GTP	C4'-O4'-C1'	-3.52	101.70	109.47
39	FH	501	GTP	O4'-C1'-N9	3.51	116.32	108.36
39	IL	501	GTP	O4'-C1'-N9	3.51	116.31	108.36
39	TJ	501	GTP	O4'-C1'-N9	3.51	116.31	108.36
39	JE	501	GTP	O2B-PB-O3A	3.50	116.74	107.27
39	KF	501	GTP	O4'-C1'-N9	3.50	116.29	108.36
39	DC	501	GTP	C6-C5-N7	3.50	136.66	130.29
39	BM	501	GTP	C5-C4-N3	-3.50	122.82	128.39
39	EC	501	GTP	C6-C5-N7	3.49	136.65	130.29
39	TL	501	GTP	C6-C5-N7	-3.49	123.94	130.29
39	PJ	501	GTP	O4'-C1'-N9	3.48	116.25	108.36
39	EG	501	GTP	C3'-C2'-C1'	3.48	108.04	101.46
39	QI	501	GTP	C8-N7-C5	3.48	110.45	104.26
39	NJ	501	GTP	O4'-C1'-N9	3.47	116.22	108.36
39	DJ	501	GTP	O4'-C1'-N9	3.47	116.21	108.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	PC	501	GTP	O2B-PB-O3A	3.47	116.64	107.27
39	RL	501	GTP	O4'-C1'-N9	3.46	116.19	108.36
39	VE	501	GTP	C3'-C2'-C1'	3.44	107.97	101.46
39	BI	501	GTP	C6-C5-N7	3.44	136.54	130.29
39	HA	501	GTP	C6-C5-N7	3.43	136.52	130.29
39	EC	501	GTP	N1-C2-N3	-3.42	117.06	123.32
39	BJ	501	GTP	N2-C2-N1	3.42	123.98	116.76
39	VE	501	GTP	C6-C5-N7	3.41	136.50	130.29
39	BM	501	GTP	N2-C2-N3	-3.41	113.02	119.67
39	II	501	GTP	C3'-C2'-C1'	3.41	107.91	101.46
39	NH	501	GTP	O4'-C1'-N9	3.40	116.07	108.36
39	GB	501	GTP	N2-C2-N3	3.39	126.28	119.67
39	UL	501	GTP	O4'-C1'-N9	3.39	116.03	108.36
39	VH	501	GTP	O4'-C1'-N9	3.38	116.03	108.36
39	BE	501	GTP	C4-C5-N7	-3.38	105.31	110.67
39	VE	501	GTP	N9-C8-N7	-3.37	107.14	113.40
39	SI	501	GTP	O2B-PB-O3A	3.37	116.39	107.27
39	CL	501	GTP	O6-C6-N1	-3.37	113.78	120.11
39	PL	501	GTP	O4'-C1'-N9	3.36	115.98	108.36
39	EK	501	GTP	C4-C5-N7	-3.35	105.36	110.67
39	ND	501	GTP	O6-C6-C5	-3.34	117.71	126.53
39	AH	501	GTP	O4'-C1'-N9	3.34	115.93	108.36
39	DK	501	GTP	C4-C5-N7	-3.34	105.38	110.67
39	VB	501	GTP	O4'-C1'-N9	3.34	115.92	108.36
39	PM	501	GTP	N1-C2-N3	-3.34	117.22	123.32
39	HL	501	GTP	O4'-C1'-N9	3.33	115.91	108.36
39	DI	501	GTP	C3'-C2'-C1'	3.32	107.75	101.46
39	VE	501	GTP	C5-C4-N3	-3.32	123.10	128.39
39	LB	501	GTP	O4'-C1'-N9	3.32	115.88	108.36
39	UI	501	GTP	C4-C5-N7	-3.31	105.43	110.67
39	BB	501	GTP	O4'-C1'-N9	3.31	115.85	108.36
39	EA	501	GTP	C6-C5-N7	3.31	136.31	130.29
39	BM	501	GTP	C2-N1-C6	-3.30	119.12	125.11
39	FA	501	GTP	C6-C5-N7	3.30	136.29	130.29
39	QC	501	GTP	C4-C5-N7	-3.30	105.44	110.67
39	OK	501	GTP	C5-C6-N1	3.30	121.65	113.25
39	SM	501	GTP	C2-N3-C4	3.30	117.98	112.30
39	FE	501	GTP	O2B-PB-O3A	3.30	116.18	107.27
39	BC	501	GTP	O2B-PB-O3A	3.29	116.17	107.27
39	UI	501	GTP	C2-N1-C6	-3.29	119.14	125.11
39	DL	501	GTP	O4'-C1'-N9	3.29	115.81	108.36
39	VC	501	GTP	C3'-C2'-C1'	3.29	107.68	101.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	OK	501	GTP	C6-C5-N7	3.28	136.26	130.29
39	KI	501	GTP	O6-C6-N1	-3.28	113.94	120.11
39	HG	501	GTP	O2B-PB-O3A	3.27	116.12	107.27
39	QC	501	GTP	C6-C5-N7	3.27	136.25	130.29
39	IE	501	GTP	C3'-C2'-C1'	3.27	107.65	101.46
39	FL	501	GTP	N1-C2-N3	-3.27	117.34	123.32
39	QK	501	GTP	C5-C4-N3	-3.26	123.19	128.39
39	AE	501	GTP	O2B-PB-O3A	3.26	116.09	107.27
39	OC	501	GTP	C4-C5-N7	-3.26	105.50	110.67
39	GK	501	GTP	N9-C8-N7	-3.26	107.35	113.40
39	MK	501	GTP	O3G-PG-O3B	3.26	115.57	104.64
39	IC	501	GTP	C4-C5-N7	-3.26	105.51	110.67
39	LI	501	GTP	C3'-C2'-C1'	3.25	107.61	101.46
39	VC	501	GTP	O6-C6-N1	-3.25	114.01	120.11
39	CH	501	GTP	O6-C6-C5	-3.25	117.97	126.53
39	IE	501	GTP	C4-C5-N7	-3.24	105.53	110.67
39	DB	501	GTP	O4'-C1'-N9	3.24	115.70	108.36
39	JD	501	GTP	O4'-C1'-N9	3.24	115.69	108.36
39	DI	501	GTP	C4-C5-N7	-3.24	105.54	110.67
39	CJ	501	GTP	O4'-C1'-N9	3.23	115.69	108.36
39	PD	501	GTP	C5-C6-N1	3.23	121.47	113.25
39	OK	501	GTP	O2B-PB-O3A	3.23	116.00	107.27
39	AK	501	GTP	C5-C4-N3	-3.23	123.25	128.39
39	CD	501	GTP	O4'-C1'-N9	3.23	115.67	108.36
39	LH	501	GTP	O4'-C1'-N9	3.22	115.66	108.36
39	BJ	501	GTP	C1'-N9-C4	3.22	136.00	126.49
39	IE	501	GTP	C8-N7-C5	3.22	110.00	104.26
39	BE	501	GTP	C8-N7-C5	3.22	109.99	104.26
39	EF	501	GTP	C4'-O4'-C1'	-3.22	102.36	109.47
39	PD	501	GTP	C1'-N9-C8	-3.21	117.60	126.73
39	EC	501	GTP	O2B-PB-O3A	3.21	115.95	107.27
39	OK	501	GTP	C2-N1-C6	-3.21	119.29	125.11
39	QL	501	GTP	O4'-C1'-N9	3.21	115.63	108.36
39	UJ	501	GTP	O4'-C1'-N9	3.21	115.63	108.36
39	UI	501	GTP	C8-N7-C5	3.21	109.97	104.26
39	IC	501	GTP	C3'-C2'-C1'	3.20	107.52	101.46
39	VE	501	GTP	N2-C2-N1	3.20	123.51	116.76
39	ND	501	GTP	C1'-N9-C4	3.20	135.93	126.49
39	SL	501	GTP	O4'-C1'-N9	3.20	115.60	108.36
39	ND	501	GTP	C4'-O4'-C1'	-3.19	102.41	109.47
39	QG	501	GTP	N2-C2-N1	3.19	123.50	116.76
39	VF	501	GTP	O4'-C1'-N9	3.19	115.59	108.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	QC	501	GTP	C8-N7-C5	3.19	109.94	104.26
39	IC	501	GTP	O6-C6-N1	-3.19	114.12	120.11
39	CH	501	GTP	C1'-N9-C8	-3.19	117.67	126.73
39	IH	501	GTP	O4'-C1'-N9	3.19	115.58	108.36
39	LJ	501	GTP	O4'-C1'-N9	3.18	115.57	108.36
39	TD	501	GTP	O4'-C1'-N9	3.18	115.57	108.36
39	KB	501	GTP	C2-N1-C6	-3.18	119.35	125.11
39	II	501	GTP	C4-C5-N7	-3.17	105.65	110.67
39	JC	501	GTP	O2B-PB-O3A	3.17	115.84	107.27
39	PH	501	GTP	O4'-C1'-N9	3.17	115.54	108.36
39	EG	501	GTP	C6-C5-N7	3.17	136.06	130.29
39	NL	501	GTP	O4'-C1'-N9	3.17	115.54	108.36
39	CJ	501	GTP	C2-N1-C6	-3.17	119.36	125.11
39	QI	501	GTP	C6-C5-N7	3.17	136.05	130.29
39	QG	501	GTP	C5-C4-N3	-3.16	123.36	128.39
39	DD	501	GTP	O6-C6-C5	-3.16	118.19	126.53
39	HC	501	GTP	O3G-PG-O1G	3.16	123.14	110.83
39	ND	501	GTP	C1'-N9-C8	-3.15	117.78	126.73
39	TJ	501	GTP	C1'-N9-C4	3.15	135.79	126.49
39	DK	501	GTP	C8-N7-C5	3.14	109.86	104.26
39	GD	501	GTP	O4'-C1'-N9	3.14	115.48	108.36
39	VE	501	GTP	C5-C6-N1	3.14	121.25	113.25
39	FF	501	GTP	O4'-C1'-N9	3.14	115.47	108.36
39	OK	501	GTP	N2-C2-N1	3.14	123.39	116.76
39	HB	501	GTP	O4'-C1'-N9	3.14	115.47	108.36
39	ID	501	GTP	O4'-C1'-N9	3.14	115.47	108.36
39	CL	501	GTP	O4'-C1'-N9	3.13	115.46	108.36
39	UG	501	GTP	O2B-PB-O3A	3.13	115.74	107.27
39	TH	501	GTP	O4'-C1'-N9	3.13	115.44	108.36
39	II	501	GTP	O2B-PB-O3A	3.12	115.72	107.27
39	IB	501	GTP	C2-N1-C6	-3.12	119.45	125.11
39	QH	501	GTP	O2B-PB-O3A	3.12	115.70	107.27
39	MM	501	GTP	C3'-C2'-C1'	3.12	107.36	101.46
39	NG	501	GTP	C3'-C2'-C1'	3.11	107.36	101.46
39	OC	501	GTP	C8-N7-C5	3.11	109.80	104.26
39	DK	501	GTP	O2B-PB-O3A	3.11	115.67	107.27
39	QC	501	GTP	C3'-C2'-C1'	3.11	107.34	101.46
39	GB	501	GTP	O4'-C1'-N9	3.11	115.40	108.36
39	OC	501	GTP	C3'-C2'-C1'	3.10	107.33	101.46
39	WJ	501	GTP	O4'-C1'-N9	3.10	115.38	108.36
39	MM	501	GTP	C4-C5-N7	-3.09	105.77	110.67
39	QG	501	GTP	N9-C8-N7	-3.09	107.67	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	CI	501	GTP	O2B-PB-O3A	3.08	115.61	107.27
39	QI	501	GTP	C3'-C2'-C1'	3.08	107.30	101.46
39	QF	501	GTP	O4'-C1'-N9	3.08	115.35	108.36
39	CH	501	GTP	C4'-O4'-C1'	-3.08	102.66	109.47
39	DE	501	GTP	O2B-PB-O3A	3.08	115.60	107.27
39	VD	501	GTP	O4'-C1'-N9	3.07	115.33	108.36
39	DI	501	GTP	O2B-PB-O3A	3.07	115.58	107.27
39	WD	501	GTP	O4'-C1'-N9	3.07	115.32	108.36
39	GB	501	GTP	C1'-N9-C8	-3.07	118.00	126.73
39	LI	501	GTP	C4-C5-N7	-3.07	105.80	110.67
39	LE	501	GTP	N9-C4-N3	3.07	132.09	125.95
39	KB	501	GTP	C5-C6-N1	3.07	121.06	113.25
39	EI	501	GTP	O2B-PB-O3A	3.07	115.56	107.27
39	EK	501	GTP	C8-N7-C5	3.07	109.72	104.26
39	DK	501	GTP	N9-C8-N7	-3.06	107.72	113.40
39	CG	501	GTP	C4-C5-N7	-3.06	105.82	110.67
39	MH	501	GTP	O4'-C1'-N9	3.06	115.30	108.36
39	OA	501	GTP	C3'-C2'-C1'	3.06	107.25	101.46
39	FA	501	GTP	N1-C2-N3	-3.05	117.73	123.32
39	RK	501	GTP	C6-C5-N7	3.05	135.85	130.29
39	NH	501	GTP	C2-N1-C6	-3.05	119.57	125.11
39	WH	501	GTP	O4'-C1'-N9	3.05	115.27	108.36
39	GK	501	GTP	C8-N7-C5	3.04	109.68	104.26
39	RB	501	GTP	O2B-PB-O3A	3.04	115.50	107.27
39	BJ	501	GTP	C2'-C1'-N9	-3.04	104.78	113.25
39	HE	501	GTP	C3'-C2'-C1'	3.04	107.22	101.46
39	GH	501	GTP	O4'-C1'-N9	3.04	115.25	108.36
39	RB	501	GTP	C2-N1-C6	-3.04	119.60	125.11
39	WG	501	GTP	C4-C5-N7	-3.04	105.85	110.67
39	KB	501	GTP	O6-C6-C5	-3.04	118.51	126.53
39	DD	501	GTP	C1'-N9-C8	-3.04	118.10	126.73
39	NF	501	GTP	O4'-C1'-N9	3.04	115.24	108.36
39	SF	501	GTP	C2-N1-C6	-3.03	119.61	125.11
39	IM	501	GTP	C3'-C2'-C1'	3.03	107.20	101.46
39	IK	501	GTP	C8-N7-C5	3.03	109.66	104.26
39	RK	501	GTP	O2B-PB-O3A	3.03	115.46	107.27
39	HE	501	GTP	N9-C8-N7	-3.03	107.79	113.40
39	PA	501	GTP	C6-C5-N7	3.02	135.79	130.29
39	LI	501	GTP	C8-N7-C5	3.02	109.65	104.26
39	QI	501	GTP	N9-C8-N7	-3.02	107.80	113.40
39	UB	501	GTP	C2-N1-C6	-3.02	119.63	125.11
39	BI	501	GTP	C3'-C2'-C1'	3.02	107.17	101.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	GH	501	GTP	N1-C2-N3	-3.02	117.80	123.32
39	UH	501	GTP	C2-N1-C6	-3.02	119.64	125.11
39	OB	501	GTP	O4'-C1'-N9	3.02	115.19	108.36
39	BM	501	GTP	O4'-C1'-N9	-3.02	101.53	108.36
39	OA	501	GTP	C6-C5-N7	3.01	135.78	130.29
39	KI	501	GTP	C3'-C2'-C1'	3.01	107.16	101.46
39	LJ	501	GTP	C2-N1-C6	-3.01	119.65	125.11
39	OH	501	GTP	O4'-C1'-N9	3.01	115.18	108.36
39	TF	501	GTP	C2-N1-C6	-3.01	119.66	125.11
39	LB	501	GTP	C2-N1-C6	-3.01	119.66	125.11
39	TL	501	GTP	N1-C2-N3	-3.00	117.83	123.32
39	QC	501	GTP	N9-C8-N7	-3.00	107.84	113.40
39	GL	501	GTP	C5-C6-N1	3.00	120.88	113.25
39	SK	501	GTP	C8-N7-C5	3.00	109.60	104.26
39	KI	501	GTP	C8-N7-C5	3.00	109.60	104.26
39	IK	501	GTP	C4-C5-N7	-2.99	105.93	110.67
39	RL	501	GTP	C2-N1-C6	-2.99	119.69	125.11
39	QK	501	GTP	O2B-PB-O3A	2.99	115.36	107.27
39	IM	501	GTP	C6-C5-N7	2.99	135.72	130.29
39	LK	501	GTP	N9-C4-N3	2.99	131.92	125.95
39	RD	501	GTP	O4'-C1'-N9	2.98	115.12	108.36
39	RI	501	GTP	C8-N7-C5	2.98	109.57	104.26
39	MM	501	GTP	C6-C5-N7	2.98	135.72	130.29
39	ND	501	GTP	C5-C6-N1	2.98	120.83	113.25
39	CB	501	GTP	O4'-C1'-N9	2.98	115.10	108.36
39	GK	501	GTP	O4'-C1'-N9	-2.97	101.62	108.36
39	LC	501	GTP	O2B-PB-O3A	2.97	115.30	107.27
39	BJ	501	GTP	O6-C6-C5	-2.97	118.69	126.53
39	KI	501	GTP	C6-C5-N7	2.97	135.69	130.29
39	EG	501	GTP	O6-C6-N1	-2.97	114.53	120.11
39	LI	501	GTP	C6-C5-N7	2.96	135.68	130.29
39	UA	501	GTP	C3'-C2'-C1'	2.96	107.07	101.46
39	WG	501	GTP	C8-N7-C5	2.96	109.53	104.26
39	OD	501	GTP	O4'-C1'-N9	2.96	115.06	108.36
39	EG	501	GTP	O2B-PB-O3A	2.96	115.27	107.27
39	DD	501	GTP	C4'-O4'-C1'	-2.96	102.94	109.47
39	HG	501	GTP	N9-C4-N3	2.96	131.86	125.95
39	RI	501	GTP	C4-C5-N7	-2.95	105.99	110.67
39	II	501	GTP	N9-C8-N7	-2.95	107.92	113.40
39	WI	501	GTP	N9-C8-N7	-2.95	107.92	113.40
39	EG	501	GTP	N9-C8-N7	-2.95	107.93	113.40
39	GF	501	GTP	O4'-C1'-N9	2.95	115.05	108.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	KI	501	GTP	N9-C8-N7	-2.95	107.93	113.40
39	KI	501	GTP	C4-C5-N7	-2.95	106.00	110.67
39	VC	501	GTP	C4-C5-N7	-2.95	106.00	110.67
39	GF	501	GTP	C2-N1-C6	-2.95	119.77	125.11
39	RH	501	GTP	C2-N1-C6	-2.95	119.77	125.11
39	AM	501	GTP	O2B-PB-O3A	2.95	115.24	107.27
39	RB	501	GTP	O6-C6-C5	-2.95	118.76	126.53
39	NB	501	GTP	O4'-C1'-N9	2.94	115.03	108.36
39	WI	501	GTP	C3'-C2'-C1'	2.94	107.03	101.46
39	LI	501	GTP	N9-C8-N7	-2.94	107.94	113.40
39	SK	501	GTP	C2-N1-C6	-2.94	119.78	125.11
39	BH	501	GTP	C2-N1-C6	-2.93	119.79	125.11
39	PL	501	GTP	N1-C2-N3	-2.93	117.95	123.32
39	EA	501	GTP	C3'-C2'-C1'	2.93	107.01	101.46
39	OJ	501	GTP	O4'-C1'-N9	2.93	115.00	108.36
39	VE	501	GTP	N1-C2-N3	-2.93	117.96	123.32
39	BM	501	GTP	N9-C8-N7	-2.93	107.97	113.40
39	HF	501	GTP	C2-N1-C6	-2.93	119.80	125.11
39	JJ	501	GTP	C2-N1-C6	-2.93	119.80	125.11
39	BK	501	GTP	C8-N7-C5	2.93	109.47	104.26
39	JB	501	GTP	O4'-C1'-N9	2.93	114.99	108.36
39	EJ	501	GTP	O4'-C1'-N9	2.93	114.99	108.36
39	QH	501	GTP	O4'-C1'-N9	2.92	114.98	108.36
39	IG	501	GTP	O2B-PB-O3A	2.92	115.17	107.27
39	NA	501	GTP	C8-N7-C5	2.92	109.46	104.26
39	PD	501	GTP	C1'-N9-C4	2.92	135.11	126.49
39	IM	501	GTP	N9-C8-N7	-2.92	107.99	113.40
39	FD	501	GTP	C2-N1-C6	-2.91	119.83	125.11
39	IF	501	GTP	O4'-C1'-N9	2.91	114.96	108.36
39	EE	501	GTP	O2B-PB-O3A	2.91	115.15	107.27
39	IK	501	GTP	N9-C8-N7	-2.91	108.00	113.40
39	PB	501	GTP	C2-N1-C6	-2.91	119.83	125.11
39	SH	501	GTP	O4'-C1'-N9	2.91	114.96	108.36
39	UD	501	GTP	C2-N1-C6	-2.91	119.83	125.11
39	BC	501	GTP	C4-C5-N7	-2.91	106.06	110.67
39	HE	501	GTP	C8-N7-C5	2.91	109.44	104.26
39	VK	501	GTP	C4-C5-N7	-2.91	106.06	110.67
39	SB	501	GTP	C5-C6-N1	2.91	120.66	113.25
39	FD	501	GTP	O4'-C1'-N9	2.91	114.95	108.36
39	TE	501	GTP	C2-N1-C6	-2.91	119.84	125.11
39	OK	501	GTP	N1-C2-N3	-2.91	118.00	123.32
39	TN	501	GTP	C2-N1-C6	-2.91	119.84	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	KL	501	GTP	C2-N1-C6	-2.90	119.84	125.11
39	IK	501	GTP	O2B-PB-O3A	2.90	115.12	107.27
39	KH	501	GTP	O4'-C1'-N9	2.90	114.94	108.36
39	LF	501	GTP	C2-N1-C6	-2.90	119.84	125.11
39	EA	501	GTP	C4-C5-N7	-2.90	106.07	110.67
39	TI	501	GTP	C5-C6-N1	2.90	120.64	113.25
39	BM	501	GTP	O6-C6-C5	-2.90	118.87	126.53
39	AK	501	GTP	O2B-PB-O3A	2.90	115.11	107.27
39	WD	501	GTP	C2-N1-C6	-2.90	119.85	125.11
39	HK	501	GTP	C4-C5-N7	-2.90	106.08	110.67
39	HA	501	GTP	N1-C2-N3	-2.90	118.02	123.32
39	MM	501	GTP	C8-N7-C5	2.90	109.42	104.26
39	SJ	501	GTP	O4'-C1'-N9	2.90	114.92	108.36
39	IG	501	GTP	C5-C6-N1	2.90	120.63	113.25
39	ED	501	GTP	O4'-C1'-N9	2.90	114.92	108.36
39	SG	501	GTP	N9-C8-N7	-2.89	108.03	113.40
39	SG	501	GTP	O2B-PB-O3A	2.89	115.10	107.27
39	JG	501	GTP	C3'-C2'-C1'	2.89	106.94	101.46
39	FD	501	GTP	O6-C6-C5	-2.89	118.89	126.53
39	AJ	501	GTP	C2-N1-C6	-2.89	119.87	125.11
39	JF	501	GTP	O4'-C1'-N9	2.89	114.91	108.36
39	QJ	501	GTP	O2B-PB-O3A	2.89	115.09	107.27
39	BI	501	GTP	C4-C5-N7	-2.89	106.09	110.67
39	FJ	501	GTP	C2-N1-C6	-2.89	119.87	125.11
39	RK	501	GTP	C5-C6-N1	2.89	120.61	113.25
39	NA	501	GTP	C3'-C2'-C1'	2.89	106.93	101.46
39	OH	501	GTP	C2-N1-C6	-2.89	119.87	125.11
39	VJ	501	GTP	O4'-C1'-N9	2.89	114.90	108.36
39	PA	501	GTP	N9-C8-N7	-2.89	108.04	113.40
39	QB	501	GTP	C2-N1-C6	-2.89	119.88	125.11
39	VJ	501	GTP	C2-N1-C6	-2.89	119.88	125.11
39	GC	501	GTP	O2B-PB-O3A	2.89	115.07	107.27
39	WI	501	GTP	C6-C5-N7	2.89	135.54	130.29
39	GL	501	GTP	O6-C6-C5	-2.88	118.92	126.53
39	ID	501	GTP	C2-N1-C6	-2.88	119.88	125.11
39	RD	501	GTP	C2-N1-C6	-2.88	119.88	125.11
39	KA	501	GTP	O2B-PB-O3A	2.88	115.07	107.27
39	LH	501	GTP	C2-N1-C6	-2.88	119.88	125.11
39	JH	501	GTP	C2-N1-C6	-2.88	119.88	125.11
39	QJ	501	GTP	O4'-C1'-N9	2.88	114.89	108.36
39	BF	501	GTP	C2-N1-C6	-2.88	119.89	125.11
39	SG	501	GTP	C8-N7-C5	2.88	109.39	104.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	DA	501	GTP	C2-N1-C6	-2.88	119.89	125.11
39	FB	501	GTP	O4'-C1'-N9	2.88	114.88	108.36
39	PA	501	GTP	C3'-C2'-C1'	2.88	106.91	101.46
39	AH	501	GTP	C2-N1-C6	-2.88	119.89	125.11
39	HG	501	GTP	C2-N1-C6	-2.88	119.89	125.11
39	DH	501	GTP	C2-N1-C6	-2.88	119.90	125.11
39	NF	501	GTP	C2-N1-C6	-2.88	119.90	125.11
39	SD	501	GTP	C2-N1-C6	-2.88	119.90	125.11
39	QJ	501	GTP	C2-N1-C6	-2.87	119.90	125.11
39	TF	501	GTP	O4'-C1'-N9	2.87	114.87	108.36
39	SH	501	GTP	C2-N1-C6	-2.87	119.90	125.11
39	TC	501	GTP	O2B-PB-O3A	2.87	115.04	107.27
39	OE	501	GTP	O6-C6-N1	-2.87	114.71	120.11
39	NA	501	GTP	C4-C5-N7	-2.87	106.12	110.67
39	EE	501	GTP	C6-C5-N7	2.87	135.51	130.29
39	EK	501	GTP	O2B-PB-O3A	2.87	115.03	107.27
39	JI	501	GTP	O2B-PB-O3A	2.87	115.03	107.27
39	HL	501	GTP	C2-N1-C6	-2.87	119.91	125.11
39	MB	501	GTP	C2-N1-C6	-2.87	119.91	125.11
39	TB	501	GTP	C2-N1-C6	-2.87	119.91	125.11
39	MI	501	GTP	C8-N7-C5	2.87	109.37	104.26
39	BL	501	GTP	C2-N1-C6	-2.87	119.91	125.11
39	HK	501	GTP	C8-N7-C5	2.87	109.36	104.26
39	CF	501	GTP	C2-N1-C6	-2.86	119.92	125.11
39	KF	501	GTP	C2-N1-C6	-2.86	119.92	125.11
39	CI	501	GTP	O3G-PG-O3B	2.86	114.24	104.64
39	BM	501	GTP	C4-C5-N7	-2.86	106.14	110.67
39	OJ	501	GTP	C2-N1-C6	-2.86	119.92	125.11
39	SJ	501	GTP	C2-N1-C6	-2.86	119.92	125.11
39	KJ	501	GTP	C2-N1-C6	-2.86	119.92	125.11
39	EL	501	GTP	O4'-C1'-N9	2.86	114.84	108.36
39	AL	501	GTP	C2-N1-C6	-2.86	119.93	125.11
39	MH	501	GTP	C2-N1-C6	-2.86	119.93	125.11
39	QD	501	GTP	C2-N1-C6	-2.86	119.93	125.11
39	RI	501	GTP	N9-C8-N7	-2.86	108.10	113.40
39	QF	501	GTP	C2-N1-C6	-2.86	119.93	125.11
39	WG	501	GTP	N9-C8-N7	-2.86	108.10	113.40
39	RF	501	GTP	C2-N1-C6	-2.85	119.93	125.11
39	QG	501	GTP	C6-C5-N7	2.85	135.48	130.29
39	BC	501	GTP	C8-N7-C5	2.85	109.34	104.26
39	OE	501	GTP	C1'-N9-C4	-2.85	118.06	126.49
39	PM	501	GTP	C5-C6-N1	2.85	120.51	113.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	OI	501	GTP	O2B-PB-O3A	2.85	114.98	107.27
39	PH	501	GTP	N1-C2-N3	-2.85	118.11	123.32
39	TH	501	GTP	C2-N1-C6	-2.85	119.94	125.11
39	VK	501	GTP	C8-N7-C5	2.85	109.33	104.26
39	II	501	GTP	C8-N7-C5	2.85	109.33	104.26
39	HK	501	GTP	C3'-C2'-C1'	2.85	106.85	101.46
39	QL	501	GTP	C2-N1-C6	-2.84	119.95	125.11
39	DL	501	GTP	C2-N1-C6	-2.84	119.95	125.11
39	MJ	501	GTP	C2-N1-C6	-2.84	119.95	125.11
39	RF	501	GTP	O4'-C1'-N9	2.84	114.80	108.36
39	PA	501	GTP	C8-N7-C5	2.84	109.32	104.26
39	NB	501	GTP	C2-N1-C6	-2.84	119.96	125.11
39	DH	501	GTP	O4'-C1'-N9	2.84	114.79	108.36
39	WI	501	GTP	C2-N1-C6	-2.84	119.97	125.11
39	EK	501	GTP	C3'-C2'-C1'	2.84	106.83	101.46
39	PA	501	GTP	C4-C5-N7	-2.84	106.18	110.67
39	OC	501	GTP	C6-C5-N7	2.83	135.44	130.29
39	OL	501	GTP	C2-N1-C6	-2.83	119.97	125.11
39	KD	501	GTP	C2-N1-C6	-2.83	119.98	125.11
39	JB	501	GTP	C2-N1-C6	-2.83	119.98	125.11
39	JL	501	GTP	C2-N1-C6	-2.83	119.98	125.11
39	TI	501	GTP	C2-N1-C6	-2.83	119.98	125.11
39	DE	501	GTP	C4-C5-N7	-2.83	106.19	110.67
39	FA	501	GTP	O2B-PB-O3A	2.83	114.91	107.27
39	EB	501	GTP	C2-N1-C6	-2.83	119.98	125.11
39	LD	501	GTP	C2-N1-C6	-2.83	119.98	125.11
39	OB	501	GTP	C2-N1-C6	-2.83	119.98	125.11
39	IC	501	GTP	C8-N7-C5	2.83	109.30	104.26
39	VI	501	GTP	C5-C6-N1	2.83	120.45	113.25
39	IE	501	GTP	N9-C8-N7	-2.82	108.16	113.40
39	UJ	501	GTP	C2-N1-C6	-2.82	119.99	125.11
39	RI	501	GTP	C3'-C2'-C1'	2.82	106.81	101.46
39	TD	501	GTP	C2-N1-C6	-2.82	119.99	125.11
39	HE	501	GTP	O2B-PB-O3A	2.82	114.90	107.27
39	NI	501	GTP	C6-C5-N7	2.82	135.43	130.29
39	OI	501	GTP	O3G-PG-O3B	2.82	114.10	104.64
39	DE	501	GTP	C2-N1-C6	-2.82	120.00	125.11
39	SF	501	GTP	O6-C6-C5	-2.82	119.09	126.53
39	OE	501	GTP	C5-C4-N3	-2.82	123.90	128.39
39	CH	501	GTP	C1'-N9-C4	2.82	134.81	126.49
39	VK	501	GTP	C3'-C2'-C1'	2.82	106.79	101.46
39	GJ	501	GTP	C2-N1-C6	-2.82	120.00	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	OD	501	GTP	C2-N1-C6	-2.81	120.01	125.11
39	EJ	501	GTP	C2-N1-C6	-2.81	120.01	125.11
39	BK	501	GTP	C4-C5-N7	-2.81	106.21	110.67
39	RB	501	GTP	C5-C6-N1	2.81	120.41	113.25
39	FH	501	GTP	C2-N1-C6	-2.81	120.01	125.11
39	SB	501	GTP	C1'-N9-C8	-2.81	118.74	126.73
39	BK	501	GTP	C2-N1-C6	-2.81	120.01	125.11
39	CB	501	GTP	C2-N1-C6	-2.81	120.01	125.11
39	EC	501	GTP	O6-C6-N1	-2.81	114.83	120.11
39	WI	501	GTP	C4-C5-N7	-2.81	106.22	110.67
39	MG	501	GTP	O2B-PB-O3A	2.81	114.87	107.27
39	WL	501	GTP	C2-N1-C6	-2.81	120.02	125.11
39	GE	501	GTP	O2B-PB-O3A	2.81	114.86	107.27
39	WB	501	GTP	C2-N1-C6	-2.80	120.02	125.11
39	QI	501	GTP	C2-N1-C6	-2.80	120.03	125.11
39	MF	501	GTP	C2-N1-C6	-2.80	120.03	125.11
39	WH	501	GTP	C5-C6-N1	2.80	120.39	113.25
39	UD	501	GTP	O4'-C1'-N9	2.80	114.71	108.36
39	GD	501	GTP	C2-N1-C6	-2.80	120.03	125.11
39	QH	501	GTP	C2-N1-C6	-2.80	120.03	125.11
39	EF	501	GTP	C1'-N9-C8	-2.80	118.77	126.73
39	SC	501	GTP	C8-N7-C5	2.80	109.25	104.26
39	OE	501	GTP	C1'-N9-C8	2.80	134.69	126.73
39	WC	501	GTP	O2B-PB-O3A	2.80	114.84	107.27
39	PF	501	GTP	C2-N1-C6	-2.80	120.03	125.11
39	RC	501	GTP	N9-C8-N7	-2.80	108.22	113.40
39	OA	501	GTP	C4-C5-N7	-2.80	106.24	110.67
39	AM	501	GTP	C2-N1-C6	-2.80	120.04	125.11
39	PJ	501	GTP	C2-N1-C6	-2.80	120.04	125.11
39	FK	501	GTP	N2-C2-N1	2.79	122.66	116.76
39	DB	501	GTP	C2-N1-C6	-2.79	120.05	125.11
39	FG	501	GTP	C5-C6-N1	2.79	120.36	113.25
39	HH	501	GTP	C2-N1-C6	-2.79	120.05	125.11
39	RJ	501	GTP	C2-N1-C6	-2.79	120.05	125.11
39	NL	501	GTP	C2-N1-C6	-2.79	120.05	125.11
39	LE	501	GTP	C2-N1-C6	-2.79	120.05	125.11
39	EF	501	GTP	N2-C2-N3	2.79	125.11	119.67
39	CG	501	GTP	C8-N7-C5	2.79	109.22	104.26
39	NA	501	GTP	N9-C8-N7	-2.79	108.23	113.40
39	UC	501	GTP	O2B-PB-O3A	2.78	114.80	107.27
39	CM	501	GTP	O2B-PB-O3A	2.78	114.79	107.27
39	QI	501	GTP	O2B-PB-O3A	2.78	114.79	107.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	HG	501	GTP	O6-C6-C5	-2.78	119.19	126.53
39	UA	501	GTP	C6-C5-N7	2.78	135.35	130.29
39	JD	501	GTP	C2-N1-C6	-2.78	120.07	125.11
39	TM	501	GTP	O2B-PB-O3A	2.78	114.79	107.27
39	VC	501	GTP	O2B-PB-O3A	2.78	114.79	107.27
39	PD	501	GTP	O6-C6-C5	-2.78	119.20	126.53
39	UA	501	GTP	C8-N7-C5	2.78	109.21	104.26
39	DD	501	GTP	C1'-N9-C4	2.78	134.69	126.49
39	TB	501	GTP	O4'-C1'-N9	2.78	114.65	108.36
39	UA	501	GTP	C4-C5-N7	-2.78	106.27	110.67
39	EI	501	GTP	C2-N1-C6	-2.78	120.08	125.11
39	OF	501	GTP	C2-N1-C6	-2.78	120.08	125.11
39	VL	501	GTP	C2-N1-C6	-2.78	120.08	125.11
39	IC	501	GTP	N9-C8-N7	-2.78	108.25	113.40
39	BD	501	GTP	C2-N1-C6	-2.78	120.08	125.11
39	CK	501	GTP	C5-C6-N1	2.77	120.31	113.25
39	OI	501	GTP	C5-C6-N1	2.77	120.31	113.25
39	BC	501	GTP	O3G-PG-O3B	2.77	113.94	104.64
39	II	501	GTP	O6-C6-N1	-2.77	114.90	120.11
39	VF	501	GTP	C2-N1-C6	-2.77	120.08	125.11
39	WI	501	GTP	C8-N7-C5	2.77	109.20	104.26
39	IG	501	GTP	C2-N1-C6	-2.77	120.09	125.11
39	FE	501	GTP	N9-C4-N3	2.77	131.49	125.95
39	TC	501	GTP	C2-N1-C6	-2.77	120.09	125.11
39	UK	501	GTP	C5-C6-N1	2.77	120.30	113.25
39	JK	501	GTP	O2B-PB-O3A	2.77	114.76	107.27
39	WF	501	GTP	C2-N1-C6	-2.77	120.09	125.11
39	NG	501	GTP	C6-C5-N7	2.77	135.32	130.29
39	WJ	501	GTP	C2-N1-C6	-2.77	120.09	125.11
39	WL	501	GTP	O4'-C1'-N9	2.77	114.62	108.36
39	UL	501	GTP	C2-N1-C6	-2.76	120.10	125.11
39	BG	501	GTP	C8-N7-C5	2.76	109.18	104.26
39	JG	501	GTP	O2B-PB-O3A	2.76	114.74	107.27
39	AF	501	GTP	C2-N1-C6	-2.76	120.10	125.11
39	AI	501	GTP	C2-N1-C6	-2.76	120.10	125.11
39	LA	501	GTP	C3'-C2'-C1'	2.76	106.69	101.46
39	KH	501	GTP	C5-C6-N1	2.76	120.28	113.25
39	SF	501	GTP	C5-C6-N1	2.76	120.28	113.25
39	TJ	501	GTP	O6-C6-C5	-2.76	119.25	126.53
39	FE	501	GTP	C2-N1-C6	-2.76	120.11	125.11
39	NI	501	GTP	O2B-PB-O3A	2.75	114.72	107.27
39	RC	501	GTP	C2-N1-C6	-2.75	120.12	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	EI	501	GTP	C5-C6-N1	2.75	120.26	113.25
39	BC	501	GTP	C3'-C2'-C1'	2.75	106.67	101.46
39	DJ	501	GTP	C5-C6-N1	2.75	120.26	113.25
39	VE	501	GTP	C2-N1-C6	-2.75	120.12	125.11
39	JC	501	GTP	N9-C4-N3	2.75	131.45	125.95
39	GJ	501	GTP	O6-C6-C5	-2.75	119.27	126.53
39	PC	501	GTP	C2-N1-C6	-2.75	120.13	125.11
39	PM	501	GTP	C5-C4-N3	-2.75	124.02	128.39
39	GB	501	GTP	O6-C6-C5	-2.75	119.28	126.53
39	WE	501	GTP	C8-N7-C5	2.75	109.15	104.26
39	VH	501	GTP	C2-N1-C6	-2.75	120.13	125.11
39	PC	501	GTP	N9-C8-N7	-2.75	108.31	113.40
39	MI	501	GTP	N9-C8-N7	-2.75	108.31	113.40
39	LJ	501	GTP	O6-C6-C5	-2.75	119.28	126.53
39	IA	501	GTP	C2-N1-C6	-2.75	120.13	125.11
39	IK	501	GTP	C3'-C2'-C1'	2.75	106.66	101.46
39	HG	501	GTP	C5-C6-N1	2.74	120.24	113.25
39	RG	501	GTP	C5-C6-N1	2.74	120.24	113.25
39	TL	501	GTP	O6-C6-C5	-2.74	119.29	126.53
39	FG	501	GTP	C2-N1-C6	-2.74	120.14	125.11
39	HK	501	GTP	C6-C5-N7	2.74	135.28	130.29
39	HJ	501	GTP	O4'-C1'-N9	2.74	114.57	108.36
39	KG	501	GTP	C2-N1-C6	-2.74	120.14	125.11
39	EE	501	GTP	N9-C8-N7	-2.74	108.32	113.40
39	IM	501	GTP	C4-C5-N7	-2.74	106.33	110.67
39	AB	501	GTP	O4'-C1'-N9	2.74	114.56	108.36
39	AD	501	GTP	C2-N1-C6	-2.74	120.15	125.11
39	LK	501	GTP	C2-N1-C6	-2.74	120.15	125.11
39	IE	501	GTP	C6-C5-N7	2.74	135.27	130.29
39	OK	501	GTP	N9-C8-N7	-2.74	108.33	113.40
39	BM	501	GTP	C2'-C3'-C4'	2.74	107.90	102.61
39	VD	501	GTP	C2-N1-C6	-2.74	120.15	125.11
39	EA	501	GTP	O2B-PB-O3A	2.74	114.67	107.27
39	JK	501	GTP	C2-N1-C6	-2.73	120.15	125.11
39	MI	501	GTP	C3'-C2'-C1'	2.73	106.63	101.46
39	JF	501	GTP	C2-N1-C6	-2.73	120.16	125.11
39	CD	501	GTP	C2-N1-C6	-2.73	120.16	125.11
39	UC	501	GTP	C2-N1-C6	-2.73	120.16	125.11
39	KE	501	GTP	C5-C6-N1	2.73	120.20	113.25
39	MD	502	GTP	O3G-PG-O3B	2.73	113.79	104.64
39	MC	501	GTP	C2-N1-C6	-2.73	120.16	125.11
39	PI	501	GTP	C2-N1-C6	-2.73	120.16	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	WF	501	GTP	O4'-C1'-N9	2.73	114.54	108.36
39	EE	501	GTP	C2-N1-C6	-2.73	120.17	125.11
39	JC	501	GTP	C2-N1-C6	-2.73	120.17	125.11
39	RK	501	GTP	C2-N1-C6	-2.73	120.17	125.11
39	CG	501	GTP	C3'-C2'-C1'	2.73	106.62	101.46
39	AC	501	GTP	N9-C8-N7	-2.73	108.35	113.40
39	AG	501	GTP	C2-N1-C6	-2.72	120.17	125.11
39	SL	501	GTP	C2-N1-C6	-2.72	120.17	125.11
39	BG	501	GTP	N9-C8-N7	-2.72	108.35	113.40
39	UG	501	GTP	N9-C4-N3	2.72	131.40	125.95
39	JE	501	GTP	C3'-C2'-C1'	2.72	106.61	101.46
39	BE	501	GTP	N9-C8-N7	-2.72	108.36	113.40
39	TI	501	GTP	C6-C5-N7	2.72	135.24	130.29
39	RK	501	GTP	O6-C6-N1	-2.72	115.00	120.11
39	QK	501	GTP	C6-C5-N7	2.72	135.24	130.29
39	IL	501	GTP	C2-N1-C6	-2.72	120.18	125.11
39	GK	501	GTP	O2B-PB-O3A	2.72	114.62	107.27
39	JI	501	GTP	N9-C8-N7	-2.72	108.36	113.40
39	OK	501	GTP	C3'-C2'-C1'	2.72	106.61	101.46
39	MI	501	GTP	C4-C5-N7	-2.72	106.37	110.67
39	OL	501	GTP	O4'-C1'-N9	2.72	114.51	108.36
39	AE	501	GTP	C2-N1-C6	-2.72	120.19	125.11
39	HK	501	GTP	N9-C8-N7	-2.71	108.37	113.40
39	CK	501	GTP	N9-C8-N7	-2.71	108.37	113.40
39	LL	501	GTP	C2-N1-C6	-2.71	120.19	125.11
39	GI	501	GTP	N9-C8-N7	-2.71	108.37	113.40
39	AK	501	GTP	C6-C5-N7	2.71	135.23	130.29
39	AL	501	GTP	O4'-C1'-N9	2.71	114.50	108.36
39	AC	501	GTP	C2-N1-C6	-2.71	120.19	125.11
39	BF	501	GTP	O4'-C1'-N9	2.71	114.50	108.36
39	KG	501	GTP	C5-C6-N1	2.71	120.15	113.25
39	AJ	501	GTP	O6-C6-C5	-2.71	119.38	126.53
39	SB	501	GTP	O6-C6-C5	-2.71	119.38	126.53
39	MJ	501	GTP	O4'-C1'-N9	2.71	114.50	108.36
39	LE	501	GTP	N9-C8-N7	-2.71	108.38	113.40
39	VC	501	GTP	N9-C8-N7	-2.71	108.38	113.40
39	TL	501	GTP	C5-C4-N9	-2.71	100.81	105.66
39	IM	501	GTP	C8-N7-C5	2.71	109.08	104.26
39	EH	501	GTP	C2-N1-C6	-2.71	120.20	125.11
39	BK	501	GTP	N9-C8-N7	-2.71	108.38	113.40
39	BG	501	GTP	C2-N1-C6	-2.71	120.20	125.11
39	CC	501	GTP	N9-C8-N7	-2.70	108.39	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	CE	501	GTP	N9-C8-N7	-2.70	108.39	113.40
39	AK	501	GTP	N1-C2-N3	-2.70	118.37	123.32
39	KG	501	GTP	O2B-PB-O3A	2.70	114.58	107.27
39	SC	501	GTP	N9-C8-N7	-2.70	108.39	113.40
39	SB	501	GTP	N2-C2-N3	2.70	124.94	119.67
39	UA	501	GTP	N9-C8-N7	-2.70	108.39	113.40
39	EG	501	GTP	N1-C2-N3	-2.70	118.38	123.32
39	JG	501	GTP	C6-C5-N7	2.70	135.20	130.29
39	PE	501	GTP	N9-C8-N7	-2.70	108.40	113.40
39	JJ	501	GTP	O4'-C1'-N9	2.70	114.47	108.36
39	SD	501	GTP	O4'-C1'-N9	2.70	114.47	108.36
39	QI	501	GTP	C5-C4-N9	2.70	110.48	105.66
39	MG	501	GTP	N9-C8-N7	-2.70	108.40	113.40
39	DE	501	GTP	C3'-C2'-C1'	2.70	106.56	101.46
39	BD	501	GTP	O4'-C1'-N9	2.70	114.47	108.36
39	CH	501	GTP	C5-C6-N1	2.70	120.11	113.25
39	DE	501	GTP	C8-N7-C5	2.69	109.06	104.26
39	UF	501	GTP	C2-N1-C6	-2.69	120.22	125.11
39	SK	501	GTP	N9-C8-N7	-2.69	108.41	113.40
39	VA	501	GTP	C8-N7-C5	2.69	109.06	104.26
39	CG	501	GTP	C2-N1-C6	-2.69	120.23	125.11
39	ML	501	GTP	C2-N1-C6	-2.69	120.23	125.11
39	WC	501	GTP	C2-N1-C6	-2.69	120.23	125.11
39	QG	501	GTP	O2B-PB-O3A	2.69	114.55	107.27
39	VK	501	GTP	C6-C5-N7	2.69	135.18	130.29
39	FJ	501	GTP	C5-C6-N1	2.69	120.10	113.25
39	MM	501	GTP	N9-C8-N7	-2.69	108.42	113.40
39	LA	501	GTP	C4-C5-N7	-2.69	106.41	110.67
39	TC	501	GTP	N9-C8-N7	-2.69	108.42	113.40
39	BB	501	GTP	C2-N1-C6	-2.69	120.24	125.11
39	DF	501	GTP	C5-C6-N1	2.68	120.09	113.25
39	DC	501	GTP	O4'-C1'-N9	-2.68	102.28	108.36
39	VG	501	GTP	N9-C8-N7	-2.68	108.42	113.40
39	FB	501	GTP	C2-N1-C6	-2.68	120.24	125.11
39	SG	501	GTP	C2-N1-C6	-2.68	120.24	125.11
39	KK	501	GTP	C2-N1-C6	-2.68	120.25	125.11
39	DE	501	GTP	N9-C8-N7	-2.68	108.43	113.40
39	HB	501	GTP	C2-N1-C6	-2.68	120.25	125.11
39	IJ	501	GTP	C2-N1-C6	-2.68	120.25	125.11
39	WE	501	GTP	N9-C8-N7	-2.68	108.43	113.40
39	AI	501	GTP	C4-C5-N7	-2.68	106.42	110.67
39	VI	501	GTP	C2-N1-C6	-2.68	120.25	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	WE	501	GTP	C4-C5-N7	-2.68	106.42	110.67
39	NA	501	GTP	C6-C5-N7	2.68	135.17	130.29
39	MD	502	GTP	C5-C6-N1	2.68	120.07	113.25
39	UE	501	GTP	C5-C6-N1	2.68	120.07	113.25
39	EH	501	GTP	O4'-C1'-N9	2.68	114.43	108.36
39	RG	501	GTP	C2-N1-C6	-2.68	120.25	125.11
39	FJ	501	GTP	O6-C6-C5	-2.68	119.47	126.53
39	DG	501	GTP	C2-N1-C6	-2.68	120.26	125.11
39	JL	501	GTP	O4'-C1'-N9	2.67	114.42	108.36
39	HI	501	GTP	N9-C8-N7	-2.67	108.44	113.40
39	KG	501	GTP	N9-C8-N7	-2.67	108.44	113.40
39	HJ	501	GTP	C2-N1-C6	-2.67	120.26	125.11
39	DK	501	GTP	C1'-N9-C8	2.67	134.33	126.73
39	ID	501	GTP	O2B-PB-O3A	2.67	114.50	107.27
39	MM	501	GTP	O6-C6-N1	-2.67	115.09	120.11
39	NI	501	GTP	C5-C6-N1	2.67	120.06	113.25
39	BH	501	GTP	O4'-C1'-N9	2.67	114.41	108.36
39	CF	501	GTP	O4'-C1'-N9	2.67	114.41	108.36
39	BL	501	GTP	O4'-C1'-N9	2.67	114.41	108.36
39	SK	501	GTP	C4-C5-N7	-2.67	106.44	110.67
39	NL	501	GTP	O2B-PB-O3A	2.67	114.49	107.27
39	IF	501	GTP	C2-N1-C6	-2.67	120.27	125.11
39	IB	501	GTP	C5-C6-N1	2.67	120.05	113.25
39	JE	501	GTP	N9-C8-N7	-2.67	108.45	113.40
39	CK	501	GTP	C6-C5-N7	2.67	135.15	130.29
39	GC	501	GTP	N9-C8-N7	-2.67	108.45	113.40
39	VC	501	GTP	C5-C6-N1	2.67	120.05	113.25
39	AE	501	GTP	N9-C8-N7	-2.67	108.45	113.40
39	RM	501	GTP	C5-C6-N1	2.67	120.04	113.25
39	FG	501	GTP	N9-C8-N7	-2.67	108.45	113.40
39	CC	501	GTP	O2B-PB-O3B	-2.67	100.06	107.27
39	FL	501	GTP	C1'-N9-C8	-2.67	119.16	126.73
39	SI	501	GTP	C2-N1-C6	-2.67	120.28	125.11
39	NG	501	GTP	O2B-PB-O3A	2.67	114.48	107.27
39	LJ	501	GTP	C5-C6-N1	2.67	120.04	113.25
39	KE	501	GTP	C2-N1-C6	-2.66	120.28	125.11
39	RI	501	GTP	C2-N1-C6	-2.66	120.28	125.11
39	FL	501	GTP	C5-C6-N1	2.66	120.03	113.25
39	NH	501	GTP	C5-C6-N1	2.66	120.03	113.25
39	WG	501	GTP	C2-N1-C6	-2.66	120.28	125.11
39	GJ	501	GTP	O4'-C1'-N9	2.66	114.39	108.36
39	TN	501	GTP	O4'-C1'-N9	2.66	114.39	108.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	CK	501	GTP	C2-N1-C6	-2.66	120.28	125.11
39	FD	501	GTP	C5-C6-N1	2.66	120.03	113.25
39	JC	501	GTP	N9-C8-N7	-2.66	108.47	113.40
39	OI	501	GTP	N9-C8-N7	-2.66	108.47	113.40
39	KA	501	GTP	C2-N1-C6	-2.66	120.29	125.11
39	RH	501	GTP	C5-C6-N1	2.66	120.02	113.25
39	LE	501	GTP	C8-N7-C5	2.66	109.00	104.26
39	BC	501	GTP	N9-C8-N7	-2.66	108.47	113.40
39	DD	501	GTP	C5-C6-N1	2.66	120.02	113.25
39	PI	501	GTP	C5-C6-N1	2.66	120.02	113.25
39	PI	501	GTP	O2B-PB-O3A	2.66	114.45	107.27
39	GF	501	GTP	O6-C6-C5	-2.66	119.52	126.53
39	AF	501	GTP	O4'-C1'-N9	2.66	114.38	108.36
39	TE	501	GTP	O2B-PB-O3A	2.66	114.45	107.27
39	KE	501	GTP	N9-C8-N7	-2.65	108.48	113.40
39	BE	501	GTP	C3'-C2'-C1'	2.65	106.48	101.46
39	VL	501	GTP	O4'-C1'-N9	2.65	114.37	108.36
39	BM	501	GTP	O3G-PG-O3B	2.65	113.52	104.64
39	HE	501	GTP	C4-C5-N7	-2.65	106.47	110.67
39	IK	501	GTP	C6-C5-N7	2.65	135.11	130.29
39	EE	501	GTP	C4-C5-N7	-2.65	106.47	110.67
39	RC	501	GTP	C3'-C2'-C1'	2.65	106.47	101.46
39	PK	501	GTP	O2B-PB-O3A	2.65	114.43	107.27
39	GE	501	GTP	C3'-C2'-C1'	2.65	106.47	101.46
39	SI	501	GTP	N9-C8-N7	-2.65	108.49	113.40
39	WK	501	GTP	O2B-PB-O3A	2.65	114.43	107.27
39	GA	501	GTP	C2-N1-C6	-2.65	120.31	125.11
39	MI	501	GTP	C2-N1-C6	-2.65	120.31	125.11
39	GA	501	GTP	N9-C8-N7	-2.65	108.49	113.40
39	EB	501	GTP	O6-C6-C5	-2.65	119.55	126.53
39	DF	501	GTP	O4'-C1'-N9	2.64	114.35	108.36
39	AB	501	GTP	C5-C6-N1	2.64	119.98	113.25
39	AK	501	GTP	C4-C5-N7	-2.64	106.48	110.67
39	KI	501	GTP	O2B-PB-O3A	2.64	114.42	107.27
39	PG	501	GTP	N9-C8-N7	-2.64	108.50	113.40
39	JE	501	GTP	C5-C6-N1	2.64	119.98	113.25
39	WA	501	GTP	C2-N1-C6	-2.64	120.32	125.11
39	AG	501	GTP	N9-C8-N7	-2.64	108.50	113.40
39	FE	501	GTP	N9-C8-N7	-2.64	108.50	113.40
39	MC	501	GTP	N9-C8-N7	-2.64	108.50	113.40
39	GL	501	GTP	N2-C2-N3	2.64	124.83	119.67
39	TE	501	GTP	C5-C6-N1	2.64	119.98	113.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	WA	501	GTP	C5-C6-N1	2.64	119.97	113.25
39	MD	501	GTP	C2-N1-C6	-2.64	120.33	125.11
39	QD	502	GTP	N9-C8-N7	-2.64	108.51	113.40
39	SC	501	GTP	C2-N1-C6	-2.64	120.33	125.11
39	FA	501	GTP	C4-C5-N7	-2.64	106.49	110.67
39	CG	501	GTP	N9-C8-N7	-2.64	108.51	113.40
39	JI	501	GTP	C8-N7-C5	2.64	108.95	104.26
39	NG	501	GTP	C4-C5-N7	-2.64	106.49	110.67
39	HG	501	GTP	N9-C8-N7	-2.64	108.51	113.40
39	KF	501	GTP	C5-C6-N1	2.63	119.96	113.25
39	TG	501	GTP	C5-C6-N1	2.63	119.96	113.25
39	VB	501	GTP	C2-N1-C6	-2.63	120.33	125.11
39	JE	501	GTP	C6-C5-N7	2.63	135.08	130.29
39	LA	501	GTP	O6-C6-N1	-2.63	115.17	120.11
39	AD	501	GTP	O4'-C1'-N9	2.63	114.32	108.36
39	LC	501	GTP	N9-C8-N7	-2.63	108.52	113.40
39	AL	501	GTP	O6-C6-C5	-2.63	119.59	126.53
39	FI	501	GTP	N9-C8-N7	-2.63	108.52	113.40
39	CJ	501	GTP	C5-C6-N1	2.63	119.95	113.25
39	GE	501	GTP	C2-N1-C6	-2.63	120.34	125.11
39	WE	501	GTP	C6-C5-N7	2.63	135.07	130.29
39	LB	501	GTP	O6-C6-C5	-2.63	119.60	126.53
39	VA	501	GTP	C2-N1-C6	-2.63	120.35	125.11
39	TM	501	GTP	C5-C6-N1	2.63	119.94	113.25
39	CM	501	GTP	C2-N1-C6	-2.63	120.35	125.11
39	DK	501	GTP	C5-C4-N9	2.63	110.36	105.66
39	JH	501	GTP	O4'-C1'-N9	2.63	114.31	108.36
39	OG	501	GTP	C2-N1-C6	-2.62	120.35	125.11
39	KH	501	GTP	O2B-PB-O3A	2.62	114.37	107.27
39	NI	501	GTP	C2-N1-C6	-2.62	120.35	125.11
39	CM	501	GTP	C4-C5-N7	-2.62	106.51	110.67
39	AI	501	GTP	C8-N7-C5	2.62	108.93	104.26
39	PJ	501	GTP	C5-C6-N1	2.62	119.93	113.25
39	LI	501	GTP	O2B-PB-O3A	2.62	114.36	107.27
39	UE	501	GTP	C2-N1-C6	-2.62	120.36	125.11
39	RJ	501	GTP	O4'-C1'-N9	2.62	114.30	108.36
39	VE	501	GTP	C1'-N9-C4	-2.62	118.74	126.49
39	DG	501	GTP	C3'-C2'-C1'	2.62	106.42	101.46
39	VE	501	GTP	O6-C6-C5	-2.62	119.61	126.53
39	WH	501	GTP	C2-N1-C6	-2.62	120.36	125.11
39	GK	501	GTP	N9-C4-N3	2.62	131.19	125.95
39	DH	501	GTP	O6-C6-C5	-2.62	119.62	126.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	HC	501	GTP	O2B-PB-O3A	2.62	114.35	107.27
39	IH	501	GTP	C2-N1-C6	-2.62	120.36	125.11
39	NJ	501	GTP	C5-C6-N1	2.62	119.92	113.25
39	CL	501	GTP	O6-C6-C5	-2.62	119.62	126.53
39	MK	501	GTP	N9-C4-N3	2.62	131.19	125.95
39	EK	501	GTP	C2-N1-C6	-2.62	120.36	125.11
39	SE	501	GTP	C2-N1-C6	-2.62	120.36	125.11
39	UE	501	GTP	O2B-PB-O3A	2.62	114.35	107.27
39	SK	501	GTP	C3'-C2'-C1'	2.62	106.41	101.46
39	OC	501	GTP	N9-C8-N7	-2.62	108.55	113.40
39	ID	501	GTP	O5'-C5'-C4'	2.61	117.89	108.99
39	FF	501	GTP	C5-C6-N1	2.61	119.91	113.25
39	BE	501	GTP	C2-N1-C6	-2.61	120.37	125.11
39	CK	501	GTP	C3'-C2'-C1'	2.61	106.41	101.46
39	GJ	501	GTP	C5-C6-N1	2.61	119.90	113.25
39	SK	501	GTP	N9-C4-N3	2.61	131.18	125.95
39	KC	501	GTP	N9-C4-N3	2.61	131.18	125.95
39	HF	501	GTP	C5-C6-N1	2.61	119.90	113.25
39	LB	501	GTP	C5-C6-N1	2.61	119.90	113.25
39	NG	501	GTP	C8-N7-C5	2.61	108.91	104.26
39	GD	501	GTP	O6-C6-C5	-2.61	119.64	126.53
39	MK	501	GTP	C2-N1-C6	-2.61	120.38	125.11
39	EG	501	GTP	C5-C6-N1	2.61	119.90	113.25
39	NC	501	GTP	N9-C8-N7	-2.61	108.56	113.40
39	ML	501	GTP	C5-C6-N1	2.61	119.90	113.25
39	AI	501	GTP	O2B-PB-O3A	2.61	114.33	107.27
39	RL	501	GTP	C5-C6-N1	2.61	119.89	113.25
39	DG	501	GTP	O2B-PB-O3A	2.61	114.33	107.27
39	QD	502	GTP	C8-N7-C5	2.61	108.91	104.26
39	FF	501	GTP	O6-C6-C5	-2.61	119.65	126.53
39	NG	501	GTP	N9-C8-N7	-2.61	108.56	113.40
39	WK	501	GTP	C6-C5-N7	2.61	135.03	130.29
39	GF	501	GTP	C5-C6-N1	2.61	119.89	113.25
39	BE	501	GTP	O2B-PB-O3A	2.61	114.32	107.27
39	PG	501	GTP	C2-N1-C6	-2.61	120.39	125.11
39	NI	501	GTP	N9-C8-N7	-2.61	108.57	113.40
39	TJ	501	GTP	C5-C6-N1	2.61	119.89	113.25
39	PE	501	GTP	O2B-PB-O3A	2.61	114.32	107.27
39	KF	501	GTP	O6-C6-C5	-2.61	119.65	126.53
39	TK	501	GTP	C2-N1-C6	-2.61	120.39	125.11
39	AM	501	GTP	C5-C6-N1	2.61	119.88	113.25
39	JE	501	GTP	C2-N1-C6	-2.60	120.39	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	OA	501	GTP	C8-N7-C5	2.60	108.90	104.26
39	AJ	501	GTP	C5-C6-N1	2.60	119.88	113.25
39	GD	501	GTP	C5-C6-N1	2.60	119.88	113.25
39	HC	501	GTP	C5-C6-N1	2.60	119.88	113.25
39	OG	501	GTP	C5-C6-N1	2.60	119.88	113.25
39	NC	501	GTP	C2-N1-C6	-2.60	120.39	125.11
39	HD	501	GTP	O6-C6-C5	-2.60	119.66	126.53
39	LC	501	GTP	C2-N1-C6	-2.60	120.39	125.11
39	PG	501	GTP	O3G-PG-O3B	2.60	113.36	104.64
39	GG	501	GTP	N9-C8-N7	-2.60	108.58	113.40
39	VK	501	GTP	N9-C8-N7	-2.60	108.58	113.40
39	GH	501	GTP	O6-C6-C5	-2.60	119.67	126.53
39	KA	501	GTP	C5-C6-N1	2.60	119.87	113.25
39	TK	501	GTP	C5-C6-N1	2.60	119.87	113.25
39	MD	502	GTP	N9-C8-N7	-2.60	108.58	113.40
39	AE	501	GTP	C5-C6-N1	2.60	119.86	113.25
39	RE	501	GTP	C2-N1-C6	-2.60	120.40	125.11
39	UK	501	GTP	N9-C8-N7	-2.60	108.59	113.40
39	WC	501	GTP	C3'-C2'-C1'	2.60	106.37	101.46
39	AI	501	GTP	N9-C8-N7	-2.60	108.59	113.40
39	DF	501	GTP	C2-N1-C6	-2.59	120.41	125.11
39	WH	501	GTP	O6-C6-C5	-2.59	119.68	126.53
39	SE	501	GTP	C8-N7-C5	2.59	108.88	104.26
39	NJ	501	GTP	O6-C6-C5	-2.59	119.69	126.53
39	BD	501	GTP	C5-C6-N1	2.59	119.85	113.25
39	JK	501	GTP	C8-N7-C5	2.59	108.88	104.26
39	VE	501	GTP	C8-N7-C5	2.59	108.88	104.26
39	AB	501	GTP	O6-C6-C5	-2.59	119.69	126.53
39	BI	501	GTP	O2B-PB-O3A	2.59	114.28	107.27
39	GG	501	GTP	C5-C6-N1	2.59	119.85	113.25
39	FF	501	GTP	C2-N1-C6	-2.59	120.41	125.11
39	JA	501	GTP	C2-N1-C6	-2.59	120.41	125.11
39	HE	501	GTP	C6-C5-N7	2.59	135.00	130.29
39	RL	501	GTP	O6-C6-C5	-2.59	119.69	126.53
39	CM	501	GTP	N9-C8-N7	-2.59	108.60	113.40
39	KG	501	GTP	N9-C4-N3	2.59	131.13	125.95
39	RM	501	GTP	C2-N1-C6	-2.59	120.41	125.11
39	JA	501	GTP	C5-C6-N1	2.59	119.84	113.25
39	WB	501	GTP	C5-C6-N1	2.59	119.84	113.25
39	NE	501	GTP	C5-C6-N1	2.59	119.84	113.25
39	HC	501	GTP	C2-N1-C6	-2.59	120.42	125.11
39	SC	501	GTP	C4-C5-N7	-2.59	106.57	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	LK	501	GTP	N9-C8-N7	-2.59	108.61	113.40
39	MK	501	GTP	C5-C6-N1	2.58	119.83	113.25
39	GK	501	GTP	C2-N1-C6	-2.58	120.42	125.11
39	KC	501	GTP	C2-N1-C6	-2.58	120.42	125.11
39	AL	501	GTP	C5-C6-N1	2.58	119.83	113.25
39	LC	501	GTP	C5-C6-N1	2.58	119.83	113.25
39	VA	501	GTP	N9-C8-N7	-2.58	108.61	113.40
39	EG	501	GTP	C8-N7-C5	2.58	108.86	104.26
39	QB	501	GTP	O4'-C1'-N9	2.58	114.21	108.36
39	BD	501	GTP	O6-C6-C5	-2.58	119.72	126.53
39	CM	501	GTP	C3'-C2'-C1'	2.58	106.34	101.46
39	JD	501	GTP	O6-C6-C5	-2.58	119.72	126.53
39	RI	501	GTP	C6-C5-N7	2.58	134.98	130.29
39	LA	501	GTP	C2-N1-C6	-2.58	120.43	125.11
39	NL	501	GTP	O6-C6-C5	-2.58	119.73	126.53
39	LG	501	GTP	N9-C8-N7	-2.58	108.62	113.40
39	LF	501	GTP	O6-C6-C5	-2.58	119.73	126.53
39	DH	501	GTP	C5-C6-N1	2.57	119.81	113.25
39	AB	501	GTP	C2-N1-C6	-2.57	120.44	125.11
39	EE	501	GTP	C3'-C2'-C1'	2.57	106.33	101.46
39	KL	501	GTP	O4'-C1'-N9	2.57	114.19	108.36
39	SL	501	GTP	C5-C6-N1	2.57	119.80	113.25
39	FI	501	GTP	C6-C5-N7	2.57	134.97	130.29
39	HF	501	GTP	O6-C6-C5	-2.57	119.74	126.53
39	BG	501	GTP	C3'-C2'-C1'	2.57	106.33	101.46
39	UK	501	GTP	C2-N1-C6	-2.57	120.45	125.11
39	BH	501	GTP	C5-C6-N1	2.57	119.80	113.25
39	LG	501	GTP	C2-N1-C6	-2.57	120.45	125.11
39	KK	501	GTP	C5-C6-N1	2.57	119.80	113.25
39	AK	501	GTP	N2-C2-N1	2.57	122.19	116.76
39	QK	501	GTP	C3'-C2'-C1'	2.57	106.33	101.46
39	SC	501	GTP	C3'-C2'-C1'	2.57	106.33	101.46
39	HK	501	GTP	O2B-PB-O3A	2.57	114.22	107.27
39	EE	501	GTP	C5-C6-N1	2.57	119.80	113.25
39	RC	501	GTP	C5-C6-N1	2.57	119.80	113.25
39	PF	501	GTP	C5-C6-N1	2.57	119.79	113.25
39	JI	501	GTP	C2-N1-C6	-2.57	120.45	125.11
39	FJ	501	GTP	C1'-N9-C8	-2.57	119.43	126.73
39	VG	501	GTP	C8-N7-C5	2.57	108.83	104.26
39	NE	501	GTP	C2-N1-C6	-2.57	120.45	125.11
39	NK	501	GTP	C2-N1-C6	-2.57	120.45	125.11
39	BH	501	GTP	O6-C6-C5	-2.57	119.76	126.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	LD	501	GTP	C5-C6-N1	2.57	119.78	113.25
39	FC	501	GTP	N9-C8-N7	-2.57	108.64	113.40
39	OE	501	GTP	C4-C5-N7	-2.57	106.60	110.67
39	LA	501	GTP	C8-N7-C5	2.57	108.83	104.26
39	TG	501	GTP	C2-N1-C6	-2.57	120.46	125.11
39	JD	501	GTP	C5-C6-N1	2.56	119.78	113.25
39	UG	501	GTP	C5-C6-N1	2.56	119.78	113.25
39	VJ	501	GTP	C5-C6-N1	2.56	119.78	113.25
39	PM	501	GTP	O2B-PB-O3A	2.56	114.20	107.27
39	MC	501	GTP	C5-C6-N1	2.56	119.78	113.25
39	NC	501	GTP	C5-C6-N1	2.56	119.78	113.25
39	VF	501	GTP	C5-C6-N1	2.56	119.78	113.25
39	SE	501	GTP	O2B-PB-O3A	2.56	114.20	107.27
39	DJ	501	GTP	O6-C6-C5	-2.56	119.77	126.53
39	HB	501	GTP	O6-C6-C5	-2.56	119.77	126.53
39	FE	501	GTP	C5-C6-N1	2.56	119.77	113.25
39	HD	501	GTP	C5-C6-N1	2.56	119.77	113.25
39	WI	501	GTP	C5-C6-N1	2.56	119.77	113.25
39	VA	501	GTP	C4-C5-N7	-2.56	106.61	110.67
39	RH	501	GTP	O6-C6-C5	-2.56	119.78	126.53
39	BB	501	GTP	C5-C6-N1	2.56	119.77	113.25
39	TD	501	GTP	C5-C6-N1	2.56	119.77	113.25
39	UC	501	GTP	C5-C6-N1	2.56	119.77	113.25
39	UG	501	GTP	N9-C8-N7	-2.56	108.66	113.40
39	KJ	501	GTP	O4'-C1'-N9	2.56	114.15	108.36
39	EK	501	GTP	N9-C8-N7	-2.56	108.66	113.40
39	BF	501	GTP	C5-C6-N1	2.56	119.76	113.25
39	JJ	501	GTP	C5-C6-N1	2.56	119.76	113.25
39	TM	501	GTP	C2-N1-C6	-2.56	120.47	125.11
39	CI	501	GTP	C2-N1-C6	-2.56	120.48	125.11
39	OI	501	GTP	C2-N1-C6	-2.56	120.48	125.11
39	RE	501	GTP	O2B-PB-O3A	2.56	114.18	107.27
39	HC	501	GTP	N9-C8-N7	-2.56	108.66	113.40
39	AJ	501	GTP	O4'-C1'-N9	2.55	114.15	108.36
39	AC	501	GTP	C3'-C2'-C1'	2.55	106.30	101.46
39	UH	501	GTP	C5-C6-N1	2.55	119.75	113.25
39	DG	501	GTP	N9-C8-N7	-2.55	108.66	113.40
39	EI	501	GTP	N9-C8-N7	-2.55	108.66	113.40
39	HB	501	GTP	C5-C6-N1	2.55	119.75	113.25
39	FI	501	GTP	C2-N1-C6	-2.55	120.48	125.11
39	KA	501	GTP	N9-C8-N7	-2.55	108.67	113.40
39	HK	501	GTP	C2-N1-C6	-2.55	120.48	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	MG	501	GTP	C8-N7-C5	2.55	108.81	104.26
39	UA	501	GTP	O2B-PB-O3A	2.55	114.17	107.27
39	QD	502	GTP	C4-C5-N7	-2.55	106.63	110.67
39	HL	501	GTP	C5-C6-N1	2.55	119.75	113.25
39	PI	501	GTP	N9-C8-N7	-2.55	108.67	113.40
39	VG	501	GTP	C2-N1-C6	-2.55	120.49	125.11
39	BG	501	GTP	C4-C5-N7	-2.55	106.63	110.67
39	TE	501	GTP	N9-C8-N7	-2.55	108.67	113.40
39	EL	501	GTP	C2-N1-C6	-2.55	120.49	125.11
39	QD	501	GTP	O4'-C1'-N9	2.55	114.13	108.36
39	LF	501	GTP	C5-C6-N1	2.55	119.74	113.25
39	FK	501	GTP	C3'-C2'-C1'	2.55	106.28	101.46
39	SI	501	GTP	C6-C5-N7	2.55	134.93	130.29
39	DA	501	GTP	N9-C4-N3	2.55	131.05	125.95
39	WE	501	GTP	N2-C2-N1	2.55	122.14	116.76
39	IH	501	GTP	O6-C6-C5	-2.55	119.81	126.53
39	BM	501	GTP	C8-N7-C5	2.55	108.80	104.26
39	GB	501	GTP	C5-C6-N1	2.55	119.73	113.25
39	EF	501	GTP	C2-N1-C6	-2.55	120.49	125.11
39	EB	501	GTP	C5-C6-N1	2.55	119.73	113.25
39	NF	501	GTP	O6-C6-C5	-2.55	119.81	126.53
39	DK	501	GTP	C2-N1-C6	-2.55	120.50	125.11
39	JA	501	GTP	N9-C8-N7	-2.55	108.68	113.40
39	DL	501	GTP	C5-C6-N1	2.54	119.73	113.25
39	VI	501	GTP	C6-C5-N7	2.54	134.92	130.29
39	UG	501	GTP	C2-N1-C6	-2.54	120.50	125.11
39	OL	501	GTP	C5-C6-N1	2.54	119.73	113.25
39	HI	501	GTP	C2-N1-C6	-2.54	120.50	125.11
39	QD	502	GTP	C2-N1-C6	-2.54	120.50	125.11
39	MJ	501	GTP	O6-C6-C5	-2.54	119.82	126.53
39	PG	501	GTP	N9-C4-N3	2.54	131.04	125.95
39	PB	501	GTP	O4'-C1'-N9	2.54	114.12	108.36
39	IL	501	GTP	O6-C6-C5	-2.54	119.83	126.53
39	DK	501	GTP	N2-C2-N1	2.54	122.12	116.76
39	PK	501	GTP	C5-C6-N1	2.54	119.72	113.25
39	RK	501	GTP	C3'-C2'-C1'	2.54	106.27	101.46
39	GH	501	GTP	N2-C2-N3	2.54	124.63	119.67
39	NL	501	GTP	C5-C6-N1	2.54	119.72	113.25
39	PB	501	GTP	C5-C6-N1	2.54	119.72	113.25
39	AC	501	GTP	C8-N7-C5	2.54	108.78	104.26
39	LJ	501	GTP	O2G-PG-O3B	2.54	113.15	104.64
39	WE	501	GTP	C2-N1-C6	-2.54	120.51	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	QJ	501	GTP	C5-C6-N1	2.54	119.71	113.25
39	FG	501	GTP	C6-C5-N7	2.54	134.91	130.29
39	PG	501	GTP	C5-C6-N1	2.54	119.71	113.25
39	VC	501	GTP	C8-N7-C5	2.54	108.78	104.26
39	EL	501	GTP	O6-C6-C5	-2.54	119.84	126.53
39	AB	501	GTP	N9-C8-N7	-2.54	108.70	113.40
39	WA	501	GTP	N9-C8-N7	-2.54	108.70	113.40
39	WD	501	GTP	C5-C6-N1	2.54	119.71	113.25
39	NF	501	GTP	C5-C6-N1	2.54	119.71	113.25
39	VH	501	GTP	C5-C6-N1	2.54	119.71	113.25
39	FJ	501	GTP	C4'-O4'-C1'	-2.54	103.87	109.47
39	PK	501	GTP	C2-N1-C6	-2.53	120.51	125.11
39	FC	501	GTP	O2B-PB-O3A	2.53	114.12	107.27
39	MD	502	GTP	C2-N1-C6	-2.53	120.52	125.11
39	SD	501	GTP	C5-C6-N1	2.53	119.70	113.25
39	GG	501	GTP	C2-N1-C6	-2.53	120.52	125.11
39	SE	501	GTP	N9-C8-N7	-2.53	108.70	113.40
39	BG	501	GTP	C5-C6-N1	2.53	119.70	113.25
39	IH	501	GTP	C5-C6-N1	2.53	119.70	113.25
39	LJ	501	GTP	O2B-PB-O3A	2.53	114.12	107.27
39	JA	501	GTP	O2B-PB-O3A	2.53	114.12	107.27
39	IE	501	GTP	C2-N1-C6	-2.53	120.52	125.11
39	DK	501	GTP	C1'-N9-C4	-2.53	119.00	126.49
39	GA	501	GTP	C5-C6-N1	2.53	119.70	113.25
39	WD	501	GTP	O6-C6-C5	-2.53	119.85	126.53
39	JH	501	GTP	C5-C6-N1	2.53	119.70	113.25
39	EI	501	GTP	C6-C5-N7	2.53	134.90	130.29
39	JB	501	GTP	C5-C6-N1	2.53	119.69	113.25
39	QB	501	GTP	C5-C6-N1	2.53	119.69	113.25
39	BF	501	GTP	O6-C6-C5	-2.53	119.85	126.53
39	UC	501	GTP	N9-C8-N7	-2.53	108.71	113.40
39	MB	501	GTP	O6-C6-C5	-2.53	119.86	126.53
39	QL	502	GTP	C5-C6-N1	2.53	119.69	113.25
39	NJ	501	GTP	N1-C2-N3	-2.53	118.69	123.32
39	LD	501	GTP	O6-C6-C5	-2.53	119.86	126.53
39	SJ	501	GTP	C5-C6-N1	2.53	119.69	113.25
39	DG	501	GTP	C8-N7-C5	2.53	108.77	104.26
39	WE	501	GTP	O2B-PB-O3A	2.53	114.11	107.27
39	TN	501	GTP	C5-C6-N1	2.53	119.69	113.25
39	CC	501	GTP	C3'-C2'-C1'	2.53	106.25	101.46
39	LG	501	GTP	C5-C6-N1	2.53	119.69	113.25
39	UD	501	GTP	C5-C6-N1	2.53	119.69	113.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	CB	501	GTP	C5-C6-N1	2.53	119.68	113.25
39	IL	501	GTP	C5-C6-N1	2.53	119.68	113.25
39	UF	501	GTP	C5-C6-N1	2.53	119.68	113.25
39	DC	501	GTP	C4-C5-N7	-2.53	106.67	110.67
39	KL	501	GTP	C5-C6-N1	2.52	119.68	113.25
39	ED	501	GTP	C5-C6-N1	2.52	119.68	113.25
39	CK	501	GTP	N2-C2-N1	2.52	122.09	116.76
39	WC	501	GTP	C8-N7-C5	2.52	108.76	104.26
39	TB	501	GTP	C5-C6-N1	2.52	119.68	113.25
39	RC	501	GTP	O2B-PB-O3A	2.52	114.09	107.27
39	AG	501	GTP	C8-N7-C5	2.52	108.75	104.26
39	QH	501	GTP	C5-C6-N1	2.52	119.67	113.25
39	WA	501	GTP	N9-C4-N3	2.52	131.00	125.95
39	PJ	501	GTP	O6-C6-C5	-2.52	119.88	126.53
39	JF	501	GTP	O2B-PB-O3A	2.52	114.08	107.27
39	WK	501	GTP	N9-C8-N7	-2.52	108.73	113.40
39	HI	501	GTP	C5-C6-N1	2.52	119.67	113.25
39	PC	501	GTP	C5-C6-N1	2.52	119.67	113.25
39	RF	501	GTP	C5-C6-N1	2.52	119.67	113.25
39	BL	501	GTP	C5-C6-N1	2.52	119.66	113.25
39	UB	501	GTP	O6-C6-C5	-2.52	119.89	126.53
39	HH	501	GTP	C5-C6-N1	2.52	119.66	113.25
39	WJ	501	GTP	C5-C6-N1	2.52	119.66	113.25
39	KH	501	GTP	C2-N1-C6	-2.52	120.55	125.11
39	NH	501	GTP	O6-C6-C5	-2.52	119.89	126.53
39	EA	501	GTP	O6-C6-N1	-2.52	115.38	120.11
39	QD	501	GTP	C5-C6-N1	2.52	119.66	113.25
39	TF	501	GTP	C5-C6-N1	2.52	119.66	113.25
39	UI	501	GTP	N9-C8-N7	-2.52	108.74	113.40
39	HD	501	GTP	C2-N1-C6	-2.52	120.55	125.11
39	KH	501	GTP	O6-C6-C5	-2.51	119.89	126.53
39	ML	501	GTP	O6-C6-C5	-2.51	119.89	126.53
39	ED	501	GTP	O6-C6-C5	-2.51	119.90	126.53
39	SL	501	GTP	O6-C6-C5	-2.51	119.90	126.53
39	EF	501	GTP	C5-C6-N1	2.51	119.65	113.25
39	MF	501	GTP	C5-C6-N1	2.51	119.65	113.25
39	UF	501	GTP	O6-C6-C5	-2.51	119.90	126.53
39	JJ	501	GTP	O6-C6-C5	-2.51	119.90	126.53
39	NB	501	GTP	C5-C6-N1	2.51	119.65	113.25
39	WL	501	GTP	C5-C6-N1	2.51	119.65	113.25
39	NK	501	GTP	N9-C8-N7	-2.51	108.74	113.40
39	CE	501	GTP	C6-C5-N7	2.51	134.86	130.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	JC	501	GTP	C8-N7-C5	2.51	108.73	104.26
39	BB	501	GTP	O6-C6-C5	-2.51	119.91	126.53
39	CC	501	GTP	C4-C5-N7	-2.51	106.69	110.67
39	EJ	501	GTP	C5-C6-N1	2.51	119.64	113.25
39	EF	501	GTP	C1'-N9-C4	2.51	133.90	126.49
39	OD	501	GTP	C5-C6-N1	2.51	119.64	113.25
39	PH	501	GTP	O6-C6-C5	-2.51	119.91	126.53
39	PH	501	GTP	C1'-N9-C8	-2.51	119.61	126.73
39	CI	501	GTP	C3'-C2'-C1'	2.51	106.21	101.46
39	JE	501	GTP	C8-N7-C5	2.51	108.73	104.26
39	LI	501	GTP	C2-N1-C6	-2.51	120.57	125.11
39	HJ	501	GTP	O6-C6-C5	-2.51	119.92	126.53
39	MF	501	GTP	O6-C6-C5	-2.51	119.92	126.53
39	MH	501	GTP	C5-C6-N1	2.51	119.63	113.25
39	WC	501	GTP	N9-C8-N7	-2.51	108.75	113.40
39	RD	501	GTP	C5-C6-N1	2.50	119.63	113.25
39	DE	501	GTP	C6-C5-N7	2.50	134.85	130.29
39	EC	501	GTP	C5-C4-N9	2.50	110.14	105.66
39	MB	501	GTP	O4'-C1'-N9	2.50	114.03	108.36
39	AI	501	GTP	C3'-C2'-C1'	2.50	106.20	101.46
39	PD	501	GTP	O2B-PB-O3A	2.50	114.04	107.27
39	OI	501	GTP	C6-C5-N7	2.50	134.85	130.29
39	LH	501	GTP	C5-C6-N1	2.50	119.63	113.25
39	MB	501	GTP	C5-C6-N1	2.50	119.63	113.25
39	SH	501	GTP	C5-C6-N1	2.50	119.63	113.25
39	WC	501	GTP	C4-C5-N7	-2.50	106.70	110.67
39	WL	501	GTP	O2B-PB-O3A	2.50	114.04	107.27
39	VG	501	GTP	C5-C6-N1	2.50	119.62	113.25
39	FL	501	GTP	O6-C6-C5	-2.50	119.93	126.53
39	KC	501	GTP	C5-C6-N1	2.50	119.62	113.25
39	PH	501	GTP	C5-C6-N1	2.50	119.62	113.25
39	RM	501	GTP	N9-C8-N7	-2.50	108.76	113.40
39	KJ	501	GTP	C5-C6-N1	2.50	119.62	113.25
39	QL	501	GTP	C5-C6-N1	2.50	119.62	113.25
39	UJ	501	GTP	C5-C6-N1	2.50	119.62	113.25
39	VL	501	GTP	C5-C6-N1	2.50	119.62	113.25
39	PB	501	GTP	O6-C6-C5	-2.50	119.93	126.53
39	WG	501	GTP	O2B-PB-O3A	2.50	114.03	107.27
39	AC	501	GTP	C4-C5-N7	-2.50	106.71	110.67
39	EA	501	GTP	N9-C8-N7	-2.50	108.77	113.40
39	GE	501	GTP	C5-C6-N1	2.50	119.61	113.25
39	CB	501	GTP	O6-C6-C5	-2.50	119.94	126.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	DB	501	GTP	O6-C6-C5	-2.50	119.94	126.53
39	HJ	501	GTP	C5-C6-N1	2.50	119.61	113.25
39	WJ	501	GTP	O6-C6-C5	-2.50	119.94	126.53
39	DL	501	GTP	O6-C6-C5	-2.50	119.94	126.53
39	CM	501	GTP	C8-N7-C5	2.50	108.71	104.26
39	WB	501	GTP	O6-C6-C5	-2.50	119.94	126.53
39	OF	501	GTP	C5-C6-N1	2.50	119.61	113.25
39	PA	501	GTP	O2B-PB-O3A	2.50	114.02	107.27
39	CF	501	GTP	C5-C6-N1	2.50	119.61	113.25
39	KD	501	GTP	C5-C6-N1	2.50	119.61	113.25
39	OJ	501	GTP	C5-C6-N1	2.50	119.61	113.25
39	VF	501	GTP	O6-C6-C5	-2.50	119.94	126.53
39	QF	501	GTP	C5-C6-N1	2.50	119.61	113.25
39	GE	501	GTP	N9-C8-N7	-2.50	108.77	113.40
39	RJ	501	GTP	C5-C6-N1	2.50	119.61	113.25
39	IJ	501	GTP	C5-C6-N1	2.49	119.60	113.25
39	LA	501	GTP	O2B-PB-O3A	2.49	114.02	107.27
39	TL	501	GTP	C5-C6-N1	2.49	119.60	113.25
39	UL	501	GTP	C5-C6-N1	2.49	119.60	113.25
39	UK	501	GTP	O2B-PB-O3A	2.49	114.01	107.27
39	MJ	501	GTP	C5-C6-N1	2.49	119.60	113.25
39	JK	501	GTP	N9-C8-N7	-2.49	108.78	113.40
39	CG	501	GTP	C6-C5-N7	2.49	134.83	130.29
39	VH	501	GTP	O6-C6-C5	-2.49	119.95	126.53
39	CC	501	GTP	C2-N1-C6	-2.49	120.59	125.11
39	HI	501	GTP	C6-C5-N7	2.49	134.82	130.29
39	JF	501	GTP	C5-C6-N1	2.49	119.59	113.25
39	FI	501	GTP	C5-C6-N1	2.49	119.59	113.25
39	GI	501	GTP	N9-C4-N3	2.49	130.93	125.95
39	DI	501	GTP	C8-N7-C5	2.49	108.70	104.26
39	PI	501	GTP	N9-C4-N3	2.49	130.93	125.95
39	CI	501	GTP	C5-C6-N1	2.49	119.59	113.25
39	TH	501	GTP	C5-C6-N1	2.49	119.59	113.25
39	TM	501	GTP	N9-C8-N7	-2.49	108.78	113.40
39	EA	501	GTP	C8-N7-C5	2.49	108.69	104.26
39	DK	501	GTP	C6-C5-N7	2.49	134.82	130.29
39	OH	501	GTP	C5-C6-N1	2.49	119.58	113.25
39	QL	502	GTP	C2-N1-C6	-2.49	120.60	125.11
39	LL	501	GTP	O4'-C1'-N9	2.49	113.99	108.36
39	GE	501	GTP	C6-C5-N7	2.49	134.81	130.29
39	NA	501	GTP	O2B-PB-O3A	2.49	113.99	107.27
39	FA	501	GTP	C8-N7-C5	2.49	108.69	104.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	JL	501	GTP	C5-C6-N1	2.49	119.58	113.25
39	VE	501	GTP	O2B-PB-O3A	2.48	113.99	107.27
39	OA	501	GTP	N9-C8-N7	-2.48	108.79	113.40
39	DJ	501	GTP	C2-N1-C6	-2.48	120.61	125.11
39	LH	501	GTP	O6-C6-C5	-2.48	119.98	126.53
39	MD	501	GTP	N9-C8-N7	-2.48	108.80	113.40
39	ID	501	GTP	C5-C6-N1	2.48	119.57	113.25
39	GG	501	GTP	C6-C5-N7	2.48	134.81	130.29
39	VI	501	GTP	N9-C8-N7	-2.48	108.80	113.40
39	CC	501	GTP	C8-N7-C5	2.48	108.68	104.26
39	VJ	501	GTP	O6-C6-C5	-2.48	119.98	126.53
39	SD	501	GTP	O6-C6-C5	-2.48	119.98	126.53
39	AF	501	GTP	C5-C6-N1	2.48	119.57	113.25
39	BM	501	GTP	C5-C4-N9	2.48	110.09	105.66
39	LK	501	GTP	C8-N7-C5	2.48	108.68	104.26
39	NJ	501	GTP	C1'-N9-C8	-2.48	119.69	126.73
39	WF	501	GTP	C5-C6-N1	2.48	119.56	113.25
39	QD	501	GTP	O6-C6-C5	-2.48	119.99	126.53
39	MD	502	GTP	C6-C5-N7	2.48	134.80	130.29
39	TD	501	GTP	O6-C6-C5	-2.48	119.99	126.53
39	EI	501	GTP	C3'-C2'-C1'	2.48	106.15	101.46
39	DB	501	GTP	C5-C6-N1	2.48	119.56	113.25
39	QC	501	GTP	O6-C6-N1	-2.48	115.46	120.11
39	SE	501	GTP	C4-C5-N7	-2.48	106.75	110.67
39	FE	501	GTP	C8-N7-C5	2.48	108.67	104.26
39	RC	501	GTP	C8-N7-C5	2.48	108.67	104.26
39	VK	501	GTP	C2-N1-C6	-2.47	120.62	125.11
39	DG	501	GTP	C5-C6-N1	2.47	119.55	113.25
39	MJ	501	GTP	N9-C8-N7	-2.47	108.81	113.40
39	RJ	501	GTP	O6-C6-C5	-2.47	120.00	126.53
39	BM	501	GTP	C6-C5-N7	2.47	134.79	130.29
39	NK	501	GTP	C5-C6-N1	2.47	119.55	113.25
39	LL	501	GTP	C5-C6-N1	2.47	119.55	113.25
39	TI	501	GTP	C3'-C2'-C1'	2.47	106.14	101.46
39	OB	501	GTP	C5-C6-N1	2.47	119.55	113.25
39	EG	501	GTP	C4-C5-N7	-2.47	106.75	110.67
39	VB	501	GTP	C5-C6-N1	2.47	119.55	113.25
39	KL	501	GTP	O6-C6-C5	-2.47	120.01	126.53
39	IA	501	GTP	C5-C6-N1	2.47	119.55	113.25
39	KD	501	GTP	O4'-C1'-N9	2.47	113.96	108.36
39	SG	501	GTP	C5-C6-N1	2.47	119.54	113.25
39	HA	501	GTP	C4-C5-N7	-2.47	106.75	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	SG	501	GTP	N9-C4-N3	2.47	130.90	125.95
39	PL	501	GTP	N2-C2-N3	2.47	124.49	119.67
39	CE	501	GTP	C8-N7-C5	2.47	108.66	104.26
39	CF	501	GTP	O6-C6-C5	-2.47	120.01	126.53
39	KB	501	GTP	O2G-PG-O3B	2.47	112.91	104.64
39	LJ	501	GTP	O5'-C5'-C4'	2.47	117.39	108.99
39	SJ	501	GTP	O6-C6-C5	-2.47	120.02	126.53
39	OF	501	GTP	O4'-C1'-N9	2.47	113.95	108.36
39	CI	501	GTP	N9-C8-N7	-2.47	108.83	113.40
39	BC	501	GTP	C2-N1-C6	-2.46	120.64	125.11
39	GH	501	GTP	C5-C6-N1	2.46	119.53	113.25
39	JB	501	GTP	O6-C6-C5	-2.46	120.03	126.53
39	BL	501	GTP	O6-C6-C5	-2.46	120.03	126.53
39	TN	501	GTP	O6-C6-C5	-2.46	120.03	126.53
39	GI	501	GTP	C5-C6-N1	2.46	119.52	113.25
39	RE	501	GTP	C5-C6-N1	2.46	119.52	113.25
39	DF	501	GTP	O6-C6-C5	-2.46	120.03	126.53
39	OG	501	GTP	N9-C8-N7	-2.46	108.83	113.40
39	JH	501	GTP	O6-C6-C5	-2.46	120.03	126.53
39	TB	501	GTP	O6-C6-C5	-2.46	120.04	126.53
39	SH	501	GTP	O6-C6-C5	-2.46	120.04	126.53
39	WK	501	GTP	C5-C6-N1	2.46	119.52	113.25
39	RE	501	GTP	N9-C8-N7	-2.46	108.84	113.40
39	OD	501	GTP	O2G-PG-O3B	2.46	112.88	104.64
39	VD	501	GTP	C5-C6-N1	2.46	119.51	113.25
39	AF	501	GTP	O6-C6-C5	-2.46	120.05	126.53
39	JI	501	GTP	C4-C5-N7	-2.46	106.78	110.67
39	JK	501	GTP	C4-C5-N7	-2.46	106.78	110.67
39	SI	501	GTP	C5-C6-N1	2.46	119.50	113.25
39	GC	501	GTP	C8-N7-C5	2.46	108.63	104.26
39	CK	501	GTP	C8-N7-C5	2.45	108.63	104.26
39	CK	501	GTP	N1-C2-N3	-2.45	118.83	123.32
39	HE	501	GTP	C5-C6-N1	2.45	119.50	113.25
39	PE	501	GTP	C5-C6-N1	2.45	119.50	113.25
39	QC	501	GTP	O2B-PB-O3A	2.45	113.91	107.27
39	HE	501	GTP	C2-N1-C6	-2.45	120.66	125.11
39	NB	501	GTP	O6-C6-C5	-2.45	120.06	126.53
39	DI	501	GTP	C5-C4-N9	2.45	110.05	105.66
39	KK	501	GTP	O2B-PB-O3A	2.45	113.90	107.27
39	EK	501	GTP	C5-C4-N9	2.45	110.05	105.66
39	TG	501	GTP	O2B-PB-O3A	2.45	113.90	107.27
39	UK	501	GTP	C6-C5-N7	2.45	134.75	130.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	EH	501	GTP	C5-C6-N1	2.45	119.49	113.25
39	TG	501	GTP	N9-C8-N7	-2.45	108.85	113.40
39	FB	501	GTP	C5-C6-N1	2.45	119.49	113.25
39	PM	501	GTP	C4-C5-N7	-2.45	106.79	110.67
39	CD	501	GTP	C5-C6-N1	2.45	119.49	113.25
39	RF	501	GTP	O6-C6-C5	-2.45	120.06	126.53
39	QK	501	GTP	N9-C8-N7	-2.45	108.86	113.40
39	FC	501	GTP	C8-N7-C5	2.45	108.62	104.26
39	SG	501	GTP	C4-C5-N7	-2.45	106.79	110.67
39	JL	501	GTP	O6-C6-C5	-2.45	120.07	126.53
39	HH	501	GTP	O6-C6-C5	-2.45	120.07	126.53
39	MF	501	GTP	N9-C8-N7	-2.45	108.86	113.40
39	OF	501	GTP	O6-C6-C5	-2.45	120.07	126.53
39	SE	501	GTP	C3'-C2'-C1'	2.45	106.09	101.46
39	KJ	501	GTP	O6-C6-C5	-2.45	120.08	126.53
39	CE	501	GTP	C2-N1-C6	-2.45	120.67	125.11
39	TI	501	GTP	O2B-PB-O3A	2.45	113.88	107.27
39	IA	501	GTP	C3'-C2'-C1'	2.45	106.09	101.46
39	TF	501	GTP	O6-C6-C5	-2.45	120.08	126.53
39	PK	501	GTP	C6-C5-N7	2.44	134.74	130.29
39	EC	501	GTP	C2'-C3'-C4'	2.44	107.33	102.61
39	JG	501	GTP	C2-N1-C6	-2.44	120.68	125.11
39	MH	501	GTP	O6-C6-C5	-2.44	120.08	126.53
39	IA	501	GTP	N9-C8-N7	-2.44	108.87	113.40
39	KC	501	GTP	N9-C8-N7	-2.44	108.87	113.40
39	MI	501	GTP	O2B-PB-O3A	2.44	113.88	107.27
39	PC	501	GTP	C8-N7-C5	2.44	108.61	104.26
39	DI	501	GTP	N9-C8-N7	-2.44	108.87	113.40
39	ED	501	GTP	C2-N1-C6	-2.44	120.68	125.11
39	CE	501	GTP	C5-C6-N1	2.44	119.47	113.25
39	FB	501	GTP	O6-C6-C5	-2.44	120.08	126.53
39	EH	501	GTP	O6-C6-C5	-2.44	120.08	126.53
39	CL	501	GTP	O5'-C5'-C4'	2.44	117.31	108.99
39	AH	501	GTP	C5-C6-N1	2.44	119.47	113.25
39	VI	501	GTP	O2B-PB-O3A	2.44	113.87	107.27
39	WF	501	GTP	O6-C6-C5	-2.44	120.09	126.53
39	LI	501	GTP	C5-C6-N1	2.44	119.47	113.25
39	IB	501	GTP	O6-C6-C5	-2.44	120.09	126.53
39	QD	502	GTP	C3'-C2'-C1'	2.44	106.08	101.46
39	UD	501	GTP	O6-C6-C5	-2.44	120.09	126.53
39	EJ	501	GTP	O6-C6-C5	-2.44	120.10	126.53
39	QB	501	GTP	O6-C6-C5	-2.44	120.10	126.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	NE	501	GTP	N9-C8-N7	-2.44	108.88	113.40
39	WG	501	GTP	C3'-C2'-C1'	2.44	106.08	101.46
39	VL	501	GTP	O6-C6-C5	-2.44	120.10	126.53
39	WL	501	GTP	O6-C6-C5	-2.44	120.10	126.53
39	OA	501	GTP	C5-C6-N1	2.44	119.46	113.25
39	HA	501	GTP	C5-C4-N3	-2.44	124.51	128.39
39	IE	501	GTP	O2B-PB-O3A	2.44	113.86	107.27
39	BE	501	GTP	C5-C4-N9	2.44	110.02	105.66
39	CD	501	GTP	O6-C6-C5	-2.43	120.11	126.53
39	QJ	501	GTP	O6-C6-C5	-2.43	120.11	126.53
39	PG	501	GTP	C8-N7-C5	2.43	108.60	104.26
39	SG	501	GTP	C3'-C2'-C1'	2.43	106.07	101.46
39	OJ	501	GTP	O6-C6-C5	-2.43	120.11	126.53
39	MD	502	GTP	O2B-PB-O3A	2.43	113.85	107.27
39	QH	501	GTP	O6-C6-C5	-2.43	120.11	126.53
39	WK	501	GTP	C2-N1-C6	-2.43	120.70	125.11
39	DF	501	GTP	N9-C8-N7	-2.43	108.89	113.40
39	FC	501	GTP	C2-N1-C6	-2.43	120.70	125.11
39	EL	501	GTP	C5-C6-N1	2.43	119.44	113.25
39	NG	501	GTP	C5-C6-N1	2.43	119.44	113.25
39	QG	501	GTP	C5-C6-N1	2.43	119.44	113.25
39	RD	501	GTP	O6-C6-C5	-2.43	120.12	126.53
39	BG	501	GTP	C6-C5-N7	2.43	134.71	130.29
39	OC	501	GTP	C2-N1-C6	-2.43	120.71	125.11
39	CE	501	GTP	O2B-PB-O3A	2.43	113.84	107.27
39	QF	501	GTP	O6-C6-C5	-2.43	120.12	126.53
39	JF	501	GTP	O6-C6-C5	-2.43	120.12	126.53
39	TF	501	GTP	C8-N7-C5	2.43	108.59	104.26
39	TI	501	GTP	N9-C8-N7	-2.43	108.90	113.40
39	IF	501	GTP	C5-C6-N1	2.43	119.43	113.25
39	HL	501	GTP	O6-C6-C5	-2.43	120.12	126.53
39	FI	501	GTP	C8-N7-C5	2.43	108.58	104.26
39	UB	501	GTP	C5-C6-N1	2.43	119.43	113.25
39	GL	501	GTP	C1'-N9-C8	-2.43	119.84	126.73
39	MD	501	GTP	C5-C6-N1	2.43	119.43	113.25
39	AG	501	GTP	C3'-C2'-C1'	2.43	106.05	101.46
39	IG	501	GTP	N9-C8-N7	-2.42	108.90	113.40
39	UL	501	GTP	O6-C6-C5	-2.42	120.13	126.53
39	MD	501	GTP	O6-C6-C5	-2.42	120.14	126.53
39	UE	501	GTP	C6-C5-N7	2.42	134.70	130.29
39	NJ	501	GTP	C2-N1-C6	-2.42	120.72	125.11
39	CE	501	GTP	C4-C5-N7	-2.42	106.83	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	EE	501	GTP	C8-N7-C5	2.42	108.57	104.26
39	IA	501	GTP	O2B-PB-O3A	2.42	113.81	107.27
39	LG	501	GTP	N9-C4-N3	2.42	130.79	125.95
39	BI	501	GTP	C5-C4-N9	2.42	109.98	105.66
39	RG	501	GTP	N9-C8-N7	-2.42	108.92	113.40
39	UJ	501	GTP	O6-C6-C5	-2.42	120.15	126.53
39	IM	501	GTP	C5-C6-N1	2.42	119.41	113.25
39	LK	501	GTP	C5-C6-N1	2.42	119.41	113.25
39	OB	501	GTP	O6-C6-C5	-2.42	120.15	126.53
39	EF	501	GTP	O6-C6-C5	-2.42	120.15	126.53
39	MG	501	GTP	C3'-C2'-C1'	2.42	106.03	101.46
39	IG	501	GTP	N9-C4-N3	2.42	130.79	125.95
39	ID	501	GTP	O6-C6-C5	-2.42	120.15	126.53
39	KE	501	GTP	N9-C4-N3	2.42	130.78	125.95
39	KD	501	GTP	O6-C6-C5	-2.42	120.16	126.53
39	VB	501	GTP	O6-C6-C5	-2.41	120.16	126.53
39	NI	501	GTP	C3'-C2'-C1'	2.41	106.03	101.46
39	DF	501	GTP	C8-N7-C5	2.41	108.56	104.26
39	OD	501	GTP	O6-C6-C5	-2.41	120.16	126.53
39	CE	501	GTP	C3'-C2'-C1'	2.41	106.03	101.46
39	AD	501	GTP	C5-C6-N1	2.41	119.39	113.25
39	HJ	501	GTP	N9-C8-N7	-2.41	108.93	113.40
39	LL	501	GTP	O6-C6-C5	-2.41	120.17	126.53
39	MC	501	GTP	N9-C4-N3	2.41	130.78	125.95
39	DH	501	GTP	N9-C8-N7	-2.41	108.93	113.40
39	LE	501	GTP	C5-C6-N1	2.41	119.39	113.25
39	DA	501	GTP	C3'-C2'-C1'	2.41	106.03	101.46
39	PF	501	GTP	O6-C6-C5	-2.41	120.17	126.53
39	BI	501	GTP	C5-C6-N1	2.41	119.39	113.25
39	WD	501	GTP	O2G-PG-O3B	2.41	112.72	104.64
39	VA	501	GTP	O2B-PB-O3A	2.41	113.79	107.27
39	VD	501	GTP	O6-C6-C5	-2.41	120.17	126.53
39	ND	501	GTP	O2G-PG-O3B	2.41	112.72	104.64
39	KA	501	GTP	C8-N7-C5	2.41	108.55	104.26
39	AF	501	GTP	N9-C8-N7	-2.41	108.93	113.40
39	LA	501	GTP	C6-C5-N7	2.41	134.67	130.29
39	OL	501	GTP	O6-C6-C5	-2.41	120.18	126.53
39	AE	501	GTP	C3'-C2'-C1'	2.41	106.02	101.46
39	KB	501	GTP	O2B-PB-O3A	2.41	113.78	107.27
39	UC	501	GTP	C3'-C2'-C1'	2.41	106.02	101.46
39	QJ	501	GTP	O5'-C5'-C4'	2.41	117.19	108.99
39	CL	501	GTP	N2-C2-N1	2.41	121.84	116.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	UE	501	GTP	N9-C8-N7	-2.41	108.94	113.40
39	EB	501	GTP	O4'-C1'-N9	2.41	113.81	108.36
39	QL	501	GTP	O6-C6-C5	-2.41	120.18	126.53
39	TH	501	GTP	O6-C6-C5	-2.40	120.18	126.53
39	KK	501	GTP	N9-C8-N7	-2.40	108.94	113.40
39	FA	501	GTP	C5-C4-N3	-2.40	124.56	128.39
39	MC	501	GTP	O2B-PB-O3A	2.40	113.77	107.27
39	GI	501	GTP	C2-N1-C6	-2.40	120.75	125.11
39	AB	501	GTP	O2B-PB-O3A	2.40	113.77	107.27
39	SI	501	GTP	C3'-C2'-C1'	2.40	106.01	101.46
39	KK	501	GTP	N9-C4-N3	2.40	130.76	125.95
39	WI	501	GTP	O2B-PB-O3A	2.40	113.77	107.27
39	RM	501	GTP	O2B-PB-O3A	2.40	113.77	107.27
39	IJ	501	GTP	N9-C8-N7	-2.40	108.95	113.40
39	JD	501	GTP	O2B-PB-O3A	2.40	113.76	107.27
39	AB	501	GTP	C8-N7-C5	2.40	108.54	104.26
39	WL	501	GTP	N9-C8-N7	-2.40	108.95	113.40
39	DA	501	GTP	C5-C6-N1	2.40	119.36	113.25
39	MB	501	GTP	N9-C8-N7	-2.40	108.95	113.40
39	SM	501	GTP	O2B-PB-O3A	2.40	113.75	107.27
39	RM	501	GTP	C6-C5-N7	2.40	134.65	130.29
39	IJ	501	GTP	O6-C6-C5	-2.40	120.21	126.53
39	EJ	501	GTP	N9-C8-N7	-2.40	108.96	113.40
39	DH	501	GTP	O2G-PG-O3B	2.39	112.67	104.64
39	JK	501	GTP	N9-C4-N3	2.39	130.74	125.95
39	AM	501	GTP	N9-C8-N7	-2.39	108.96	113.40
39	QH	501	GTP	N9-C8-N7	-2.39	108.96	113.40
39	HK	501	GTP	C5-C6-N1	2.39	119.34	113.25
39	GK	501	GTP	O3G-PG-O3B	2.39	112.66	104.64
39	SM	501	GTP	N1-C2-N3	-2.39	118.94	123.32
39	LL	501	GTP	N9-C8-N7	-2.39	108.97	113.40
39	BG	501	GTP	N9-C4-N3	2.39	130.74	125.95
39	RK	501	GTP	N9-C8-N7	-2.39	108.97	113.40
39	PG	501	GTP	O2B-PB-O3A	2.39	113.73	107.27
39	PK	501	GTP	C3'-C2'-C1'	2.39	105.98	101.46
39	IF	501	GTP	O6-C6-C5	-2.39	120.22	126.53
39	OH	501	GTP	O6-C6-C5	-2.39	120.23	126.53
39	EA	501	GTP	C5-C6-N1	2.39	119.33	113.25
39	KD	501	GTP	N9-C8-N7	-2.39	108.97	113.40
39	PD	501	GTP	C2-N1-C6	-2.39	120.78	125.11
39	GA	501	GTP	N9-C4-N3	2.39	130.73	125.95
39	WE	501	GTP	C3'-C2'-C1'	2.39	105.98	101.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	KH	501	GTP	N1-C2-N3	-2.39	118.95	123.32
39	MH	501	GTP	O2B-PB-O3A	2.39	113.72	107.27
39	BL	501	GTP	N9-C8-N7	-2.39	108.98	113.40
39	PL	501	GTP	C1'-N9-C8	-2.39	119.95	126.73
39	AM	501	GTP	C8-N7-C5	2.39	108.51	104.26
39	JC	501	GTP	C5-C6-N1	2.38	119.32	113.25
39	WK	501	GTP	C8-N7-C5	2.38	108.51	104.26
39	AH	501	GTP	O6-C6-C5	-2.38	120.24	126.53
39	MK	501	GTP	O6-C6-C5	-2.38	120.24	126.53
39	OD	501	GTP	N9-C8-N7	-2.38	108.98	113.40
39	PL	501	GTP	C5-C6-N1	2.38	119.32	113.25
39	GA	501	GTP	C8-N7-C5	2.38	108.50	104.26
39	TK	501	GTP	N9-C8-N7	-2.38	108.98	113.40
39	TL	501	GTP	C6-C5-C4	2.38	122.41	118.83
39	FK	501	GTP	N9-C8-N7	-2.38	108.99	113.40
39	QL	502	GTP	N9-C8-N7	-2.38	108.99	113.40
39	LA	501	GTP	N9-C8-N7	-2.38	108.99	113.40
39	HH	501	GTP	N9-C8-N7	-2.38	108.99	113.40
39	JG	501	GTP	C5-C4-N9	2.38	109.91	105.66
39	IF	501	GTP	N9-C8-N7	-2.38	108.99	113.40
39	JE	501	GTP	C4-C5-N7	-2.38	106.90	110.67
39	HD	501	GTP	N9-C8-N7	-2.38	108.99	113.40
39	WK	501	GTP	C4-C5-N7	-2.38	106.91	110.67
39	TE	501	GTP	C3'-C2'-C1'	2.38	105.96	101.46
39	AG	501	GTP	C5-C6-N1	2.38	119.30	113.25
39	EA	501	GTP	C2-N1-C6	-2.38	120.80	125.11
39	VB	501	GTP	O2B-PB-O3A	2.37	113.69	107.27
39	SI	501	GTP	C4-C5-N7	-2.37	106.91	110.67
39	IH	501	GTP	N9-C8-N7	-2.37	109.00	113.40
39	QD	501	GTP	N9-C8-N7	-2.37	109.00	113.40
39	WF	501	GTP	N9-C8-N7	-2.37	109.00	113.40
39	VJ	501	GTP	N9-C8-N7	-2.37	109.00	113.40
39	AM	501	GTP	C3'-C2'-C1'	2.37	105.95	101.46
39	QB	501	GTP	N9-C8-N7	-2.37	109.00	113.40
39	CG	501	GTP	O2B-PB-O3A	2.37	113.68	107.27
39	RC	501	GTP	N9-C4-N3	2.37	130.69	125.95
39	NB	501	GTP	N9-C8-N7	-2.37	109.01	113.40
39	RK	501	GTP	C4-C5-N7	-2.37	106.92	110.67
39	TK	501	GTP	N9-C4-N3	2.37	130.69	125.95
39	HH	501	GTP	C8-N7-C5	2.37	108.48	104.26
39	KA	501	GTP	C3'-C2'-C1'	2.37	105.94	101.46
39	BF	501	GTP	N9-C8-N7	-2.37	109.01	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	JF	501	GTP	N9-C8-N7	-2.37	109.01	113.40
39	OF	501	GTP	N9-C8-N7	-2.37	109.01	113.40
39	NK	501	GTP	N9-C4-N3	2.37	130.69	125.95
39	WK	501	GTP	C3'-C2'-C1'	2.37	105.94	101.46
39	CK	501	GTP	O2B-PB-O3A	2.37	113.67	107.27
39	FF	501	GTP	N1-C2-N3	-2.37	118.99	123.32
39	IM	501	GTP	C2-N1-C6	-2.37	120.82	125.11
39	AD	501	GTP	O6-C6-C5	-2.37	120.29	126.53
39	HI	501	GTP	C8-N7-C5	2.37	108.47	104.26
39	PB	501	GTP	N9-C8-N7	-2.36	109.02	113.40
39	VG	501	GTP	C3'-C2'-C1'	2.36	105.94	101.46
39	QB	501	GTP	O2B-PB-O3A	2.36	113.66	107.27
39	UD	501	GTP	C8-N7-C5	2.36	108.47	104.26
39	CH	501	GTP	O2B-PB-O3A	2.36	113.66	107.27
39	CF	501	GTP	N9-C8-N7	-2.36	109.02	113.40
39	SM	501	GTP	C4-C5-N7	-2.36	106.92	110.67
39	QL	501	GTP	C8-N7-C5	2.36	108.47	104.26
39	IJ	501	GTP	C8-N7-C5	2.36	108.47	104.26
39	GB	501	GTP	C1'-N9-C4	2.36	133.46	126.49
39	PM	501	GTP	N2-C2-N1	2.36	121.74	116.76
39	OH	501	GTP	C8-N7-C5	2.36	108.47	104.26
39	FB	501	GTP	N9-C8-N7	-2.36	109.02	113.40
39	MG	501	GTP	C4-C5-N7	-2.36	106.93	110.67
39	EH	501	GTP	N9-C8-N7	-2.36	109.03	113.40
39	GH	501	GTP	C1'-N9-C8	-2.36	120.03	126.73
39	QF	501	GTP	C8-N7-C5	2.36	108.46	104.26
39	UI	501	GTP	N9-C4-N3	2.36	130.67	125.95
39	BI	501	GTP	C2-N1-C6	-2.36	120.83	125.11
39	HF	501	GTP	N9-C8-N7	-2.36	109.03	113.40
39	PK	501	GTP	N9-C8-N7	-2.36	109.03	113.40
39	BL	501	GTP	C8-N7-C5	2.36	108.46	104.26
39	NE	501	GTP	C6-C5-N7	2.36	134.58	130.29
39	AK	501	GTP	C8-N7-C5	2.36	108.46	104.26
39	SD	501	GTP	N9-C8-N7	-2.36	109.03	113.40
39	RD	501	GTP	C8-N7-C5	2.36	108.46	104.26
39	IK	501	GTP	C2-N1-C6	-2.36	120.84	125.11
39	CB	501	GTP	O2G-PG-O3B	2.36	112.53	104.64
39	UC	501	GTP	C8-N7-C5	2.35	108.45	104.26
39	FE	501	GTP	C3'-C2'-C1'	2.35	105.92	101.46
39	NI	501	GTP	C4-C5-N7	-2.35	106.94	110.67
39	QB	501	GTP	C8-N7-C5	2.35	108.45	104.26
39	QD	501	GTP	C8-N7-C5	2.35	108.45	104.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	IC	501	GTP	C5-C4-N9	2.35	109.87	105.66
39	WE	501	GTP	C5-C6-N1	2.35	119.24	113.25
39	MG	501	GTP	C6-C5-N7	2.35	134.57	130.29
39	OL	501	GTP	C8-N7-C5	2.35	108.45	104.26
39	NC	501	GTP	C8-N7-C5	2.35	108.45	104.26
39	OF	501	GTP	C8-N7-C5	2.35	108.45	104.26
39	MG	501	GTP	C2-N1-C6	-2.35	120.85	125.11
39	KD	501	GTP	C8-N7-C5	2.35	108.45	104.26
39	KH	501	GTP	N9-C8-N7	-2.35	109.04	113.40
39	LI	501	GTP	O6-C6-N1	-2.35	115.70	120.11
39	TE	501	GTP	N9-C4-N3	2.35	130.65	125.95
39	VA	501	GTP	C3'-C2'-C1'	2.35	105.91	101.46
39	CB	501	GTP	N9-C8-N7	-2.35	109.05	113.40
39	PB	501	GTP	C8-N7-C5	2.35	108.44	104.26
39	MD	501	GTP	C8-N7-C5	2.35	108.44	104.26
39	HI	501	GTP	O3G-PG-O3B	2.35	112.51	104.64
39	QD	502	GTP	O2B-PB-O3A	2.35	113.62	107.27
39	IA	501	GTP	C8-N7-C5	2.35	108.44	104.26
39	ND	501	GTP	O4'-C4'-C5'	2.35	116.85	109.33
39	PE	501	GTP	C2-N1-C6	-2.35	120.86	125.11
39	QL	502	GTP	N9-C4-N3	2.35	130.65	125.95
39	WF	501	GTP	C8-N7-C5	2.35	108.44	104.26
39	IC	501	GTP	C5-C6-N1	2.35	119.22	113.25
39	RG	501	GTP	C6-C5-N7	2.35	134.56	130.29
39	GK	501	GTP	C4-C5-N7	-2.35	106.95	110.67
39	OK	501	GTP	C4-C5-N7	-2.34	106.95	110.67
39	DG	501	GTP	C4-C5-N7	-2.34	106.95	110.67
39	TN	501	GTP	C8-N7-C5	2.34	108.44	104.26
39	CJ	501	GTP	O6-C6-C5	-2.34	120.35	126.53
39	II	501	GTP	C5-C6-N1	2.34	119.22	113.25
39	KE	501	GTP	C6-C5-N7	2.34	134.55	130.29
39	RG	501	GTP	O2B-PB-O3A	2.34	113.61	107.27
39	CM	501	GTP	C6-C5-N7	2.34	134.55	130.29
39	PL	501	GTP	O6-C6-C5	-2.34	120.35	126.53
39	HD	501	GTP	C8-N7-C5	2.34	108.43	104.26
39	OD	501	GTP	C8-N7-C5	2.34	108.43	104.26
39	GG	501	GTP	O2B-PB-O3A	2.34	113.60	107.27
39	WC	501	GTP	C5-C6-N1	2.34	119.21	113.25
39	DC	501	GTP	C5-C4-N3	-2.34	124.66	128.39
39	MJ	501	GTP	C8-N7-C5	2.34	108.43	104.26
39	TE	501	GTP	C8-N7-C5	2.34	108.43	104.26
39	WL	501	GTP	O2G-PG-O3B	2.34	112.48	104.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	NC	501	GTP	N9-C4-N3	2.34	130.63	125.95
39	MF	501	GTP	O4'-C1'-N9	2.34	113.66	108.36
39	UH	501	GTP	O6-C6-C5	-2.34	120.36	126.53
39	EE	501	GTP	O6-C6-N1	-2.34	115.72	120.11
39	RE	501	GTP	C8-N7-C5	2.34	108.43	104.26
39	NB	501	GTP	C8-N7-C5	2.34	108.42	104.26
39	MG	501	GTP	C5-C6-N1	2.34	119.20	113.25
39	JI	501	GTP	C3'-C2'-C1'	2.34	105.89	101.46
39	EB	501	GTP	N9-C8-N7	-2.34	109.07	113.40
39	TN	501	GTP	N9-C8-N7	-2.34	109.07	113.40
39	NI	501	GTP	C8-N7-C5	2.34	108.42	104.26
39	QJ	501	GTP	C8-N7-C5	2.34	108.42	104.26
39	QK	501	GTP	C4-C5-N7	-2.34	106.97	110.67
39	LF	501	GTP	N9-C8-N7	-2.34	109.07	113.40
39	MC	501	GTP	C8-N7-C5	2.34	108.42	104.26
39	TB	501	GTP	C8-N7-C5	2.34	108.42	104.26
39	TC	501	GTP	C4-C5-N7	-2.34	106.97	110.67
39	HH	501	GTP	O4'-C1'-N9	2.34	113.65	108.36
39	GH	501	GTP	N9-C8-N7	-2.34	109.07	113.40
39	FH	501	GTP	O6-C6-N1	2.33	124.50	120.11
39	VL	501	GTP	N9-C8-N7	-2.33	109.07	113.40
39	DA	501	GTP	C8-N7-C5	2.33	108.42	104.26
39	AJ	501	GTP	N9-C8-N7	-2.33	109.08	113.40
39	WL	501	GTP	C8-N7-C5	2.33	108.42	104.26
39	EC	501	GTP	C4-C5-N7	-2.33	106.97	110.67
39	TC	501	GTP	C1'-N9-C4	-2.33	119.60	126.49
39	LL	501	GTP	C8-N7-C5	2.33	108.41	104.26
39	DJ	501	GTP	N1-C2-N3	-2.33	119.06	123.32
39	MF	501	GTP	C8-N7-C5	2.33	108.41	104.26
39	TC	501	GTP	C5-C6-N1	2.33	119.19	113.25
39	HC	501	GTP	C6-C5-N7	2.33	134.53	130.29
39	EJ	501	GTP	C8-N7-C5	2.33	108.41	104.26
39	JF	501	GTP	C8-N7-C5	2.33	108.41	104.26
39	JL	501	GTP	N9-C8-N7	-2.33	109.08	113.40
39	BK	501	GTP	C3'-C2'-C1'	2.33	105.87	101.46
39	LH	501	GTP	C8-N7-C5	2.33	108.41	104.26
39	HA	501	GTP	O2A-PA-O3A	2.33	113.56	107.27
39	OG	501	GTP	C3'-C2'-C1'	2.33	105.86	101.46
39	OE	501	GTP	N9-C8-N7	-2.33	109.09	113.40
39	AH	501	GTP	C8-N7-C5	2.33	108.40	104.26
39	DA	501	GTP	N9-C8-N7	-2.33	109.09	113.40
39	TF	501	GTP	N9-C8-N7	-2.33	109.09	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	IF	501	GTP	C8-N7-C5	2.32	108.40	104.26
39	TC	501	GTP	C8-N7-C5	2.32	108.40	104.26
39	VL	501	GTP	C8-N7-C5	2.32	108.40	104.26
39	VC	501	GTP	C2-N1-C6	-2.32	120.90	125.11
39	OB	501	GTP	C8-N7-C5	2.32	108.40	104.26
39	RE	501	GTP	N9-C4-N3	2.32	130.60	125.95
39	KL	501	GTP	C8-N7-C5	2.32	108.40	104.26
39	JJ	501	GTP	C8-N7-C5	2.32	108.40	104.26
39	KA	501	GTP	N9-C4-N3	2.32	130.60	125.95
39	FG	501	GTP	O2B-PB-O3A	2.32	113.55	107.27
39	SH	501	GTP	C8-N7-C5	2.32	108.40	104.26
39	AG	501	GTP	C4-C5-N7	-2.32	106.99	110.67
39	JA	501	GTP	C8-N7-C5	2.32	108.40	104.26
39	ED	501	GTP	N9-C8-N7	-2.32	109.10	113.40
39	OG	501	GTP	N9-C4-N3	2.32	130.59	125.95
39	OK	501	GTP	N9-C4-N3	2.32	130.59	125.95
39	KH	501	GTP	C8-N7-C5	2.32	108.39	104.26
39	QF	501	GTP	N9-C8-N7	-2.32	109.10	113.40
39	RJ	501	GTP	N9-C8-N7	-2.32	109.10	113.40
39	TB	501	GTP	N9-C8-N7	-2.32	109.10	113.40
39	TC	501	GTP	C3'-C2'-C1'	2.32	105.85	101.46
39	TM	501	GTP	C6-C5-N7	2.32	134.51	130.29
39	MD	502	GTP	C3'-C2'-C1'	2.32	105.85	101.46
39	OE	501	GTP	C3'-C2'-C1'	2.32	105.85	101.46
39	PH	501	GTP	N2-C2-N3	2.32	124.20	119.67
39	GK	501	GTP	C5-C6-N1	2.32	119.16	113.25
39	FB	501	GTP	C8-N7-C5	2.32	108.39	104.26
39	JK	501	GTP	C3'-C2'-C1'	2.32	105.85	101.46
39	EH	501	GTP	C8-N7-C5	2.32	108.39	104.26
39	QH	501	GTP	C8-N7-C5	2.32	108.39	104.26
39	WA	501	GTP	O2B-PB-O3A	2.32	113.54	107.27
39	JA	501	GTP	N9-C4-N3	2.32	130.59	125.95
39	TK	501	GTP	C3'-C2'-C1'	2.32	105.85	101.46
39	KJ	501	GTP	N9-C8-N7	-2.32	109.10	113.40
39	PE	501	GTP	C6-C5-N7	2.32	134.50	130.29
39	CF	501	GTP	C8-N7-C5	2.32	108.39	104.26
39	SD	501	GTP	C8-N7-C5	2.32	108.39	104.26
39	OB	501	GTP	N9-C8-N7	-2.32	109.11	113.40
39	VK	501	GTP	O2B-PB-O3A	2.32	113.53	107.27
39	JL	501	GTP	C8-N7-C5	2.32	108.39	104.26
39	TH	501	GTP	C8-N7-C5	2.32	108.39	104.26
39	VJ	501	GTP	C8-N7-C5	2.32	108.39	104.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	FI	501	GTP	C4-C5-N7	-2.32	107.00	110.67
39	MH	501	GTP	N9-C8-N7	-2.31	109.11	113.40
39	KC	501	GTP	O2B-PB-O3A	2.31	113.53	107.27
39	LF	501	GTP	C8-N7-C5	2.31	108.38	104.26
39	WH	501	GTP	N9-C8-N7	-2.31	109.11	113.40
39	TG	501	GTP	C6-C5-N7	2.31	134.50	130.29
39	KJ	501	GTP	C8-N7-C5	2.31	108.38	104.26
39	AD	501	GTP	N9-C8-N7	-2.31	109.11	113.40
39	DJ	501	GTP	N9-C8-N7	-2.31	109.11	113.40
39	EC	501	GTP	O4'-C1'-N9	-2.31	103.12	108.36
39	UJ	501	GTP	C8-N7-C5	2.31	108.38	104.26
39	NF	501	GTP	N9-C8-N7	-2.31	109.12	113.40
39	RF	501	GTP	C8-N7-C5	2.31	108.38	104.26
39	MM	501	GTP	C2-N1-C6	-2.31	120.92	125.11
39	JB	501	GTP	N9-C8-N7	-2.31	109.12	113.40
39	JH	501	GTP	N9-C8-N7	-2.31	109.12	113.40
39	MK	501	GTP	C3'-C2'-C1'	2.31	105.83	101.46
39	SB	501	GTP	C1'-N9-C4	2.31	133.31	126.49
39	QL	501	GTP	N9-C8-N7	-2.31	109.12	113.40
39	BH	501	GTP	C8-N7-C5	2.31	108.37	104.26
39	OJ	501	GTP	C8-N7-C5	2.31	108.37	104.26
39	GA	501	GTP	O2B-PB-O3A	2.31	113.51	107.27
39	RF	501	GTP	N9-C8-N7	-2.31	109.12	113.40
39	VC	501	GTP	N1-C2-N3	-2.31	119.10	123.32
39	HA	501	GTP	C1'-N9-C8	2.31	133.28	126.73
39	OL	501	GTP	N9-C8-N7	-2.31	109.12	113.40
39	HJ	501	GTP	C8-N7-C5	2.31	108.37	104.26
39	CB	501	GTP	C8-N7-C5	2.31	108.37	104.26
39	KL	501	GTP	N9-C8-N7	-2.31	109.13	113.40
39	BF	501	GTP	C8-N7-C5	2.30	108.36	104.26
39	VK	501	GTP	C5-C6-N1	2.30	119.12	113.25
39	ID	501	GTP	C8-N7-C5	2.30	108.36	104.26
39	WJ	501	GTP	C8-N7-C5	2.30	108.36	104.26
39	JB	501	GTP	C8-N7-C5	2.30	108.36	104.26
39	SJ	501	GTP	C8-N7-C5	2.30	108.36	104.26
39	OC	501	GTP	C5-C4-N9	2.30	109.78	105.66
39	HE	501	GTP	N1-C2-N3	-2.30	119.11	123.32
39	AF	501	GTP	C8-N7-C5	2.30	108.36	104.26
39	ED	501	GTP	C8-N7-C5	2.30	108.36	104.26
39	MH	501	GTP	C8-N7-C5	2.30	108.36	104.26
39	JJ	501	GTP	N9-C8-N7	-2.30	109.13	113.40
39	IA	501	GTP	C4-C5-N7	-2.30	107.02	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	FK	501	GTP	C6-C5-N7	2.30	134.48	130.29
39	DB	501	GTP	C8-N7-C5	2.30	108.36	104.26
39	NF	501	GTP	C8-N7-C5	2.30	108.36	104.26
39	IH	501	GTP	C8-N7-C5	2.30	108.36	104.26
39	UA	501	GTP	C5-C6-N1	2.30	119.11	113.25
39	IM	501	GTP	O2B-PB-O3A	2.30	113.49	107.27
39	UD	501	GTP	N9-C8-N7	-2.30	109.14	113.40
39	VI	501	GTP	C3'-C2'-C1'	2.30	105.81	101.46
39	DK	501	GTP	C2'-C3'-C4'	2.30	107.05	102.61
39	UJ	501	GTP	N9-C8-N7	-2.30	109.14	113.40
39	IG	501	GTP	C3'-C2'-C1'	2.30	105.81	101.46
39	NI	501	GTP	N2-C2-N1	2.30	121.61	116.76
39	MB	501	GTP	C8-N7-C5	2.30	108.35	104.26
39	DH	501	GTP	C8-N7-C5	2.30	108.35	104.26
39	KH	501	GTP	O2G-PG-O3B	2.30	112.33	104.64
39	JH	501	GTP	C8-N7-C5	2.29	108.35	104.26
39	FJ	501	GTP	C1'-N9-C4	2.29	133.26	126.49
39	RJ	501	GTP	C8-N7-C5	2.29	108.35	104.26
39	AM	501	GTP	N9-C4-N3	2.29	130.54	125.95
39	DK	501	GTP	O3G-PG-O1G	2.29	119.77	110.83
39	PH	501	GTP	O2B-PB-O3A	2.29	113.47	107.27
39	CL	501	GTP	O3'-C3'-C4'	-2.29	104.50	111.08
39	OJ	501	GTP	N9-C8-N7	-2.29	109.15	113.40
39	UI	501	GTP	C5-C4-N9	2.29	109.76	105.66
39	IE	501	GTP	C5-C6-N1	2.29	119.08	113.25
39	UF	501	GTP	C8-N7-C5	2.29	108.34	104.26
39	GG	501	GTP	C8-N7-C5	2.29	108.34	104.26
39	NK	501	GTP	C3'-C2'-C1'	2.29	105.79	101.46
39	RD	501	GTP	N9-C8-N7	-2.29	109.16	113.40
39	AD	501	GTP	C8-N7-C5	2.29	108.34	104.26
39	PG	501	GTP	C3'-C2'-C1'	2.29	105.79	101.46
39	GI	501	GTP	C8-N7-C5	2.29	108.34	104.26
39	LD	501	GTP	C8-N7-C5	2.29	108.34	104.26
39	VD	501	GTP	C8-N7-C5	2.29	108.34	104.26
39	LG	501	GTP	C8-N7-C5	2.29	108.34	104.26
39	RJ	501	GTP	O2B-PB-O3A	2.29	113.46	107.27
39	SH	501	GTP	N9-C8-N7	-2.29	109.16	113.40
39	ED	501	GTP	N1-C2-N3	-2.29	119.14	123.32
39	UK	501	GTP	N1-C2-N3	-2.29	119.14	123.32
39	DB	501	GTP	N9-C8-N7	-2.29	109.16	113.40
39	OG	501	GTP	C8-N7-C5	2.29	108.33	104.26
39	UC	501	GTP	N9-C4-N3	2.29	130.52	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	VI	501	GTP	N9-C4-N3	2.29	130.52	125.95
39	SM	501	GTP	O2A-PA-O3A	2.28	113.45	107.27
39	LH	501	GTP	N9-C8-N7	-2.28	109.17	113.40
39	FA	501	GTP	O2A-PA-O3A	2.28	113.44	107.27
39	HD	501	GTP	N1-C2-N3	-2.28	119.14	123.32
39	WB	501	GTP	C8-N7-C5	2.28	108.33	104.26
39	EK	501	GTP	C6-C5-N7	2.28	134.44	130.29
39	LC	501	GTP	C6-C5-N7	2.28	134.44	130.29
39	GF	501	GTP	O5'-C5'-C4'	2.28	116.76	108.99
39	VD	501	GTP	N9-C8-N7	-2.28	109.17	113.40
39	NG	501	GTP	C2-N1-C6	-2.28	120.97	125.11
39	DE	501	GTP	C5-C6-N1	2.28	119.06	113.25
39	PF	501	GTP	C1'-N9-C8	-2.28	120.25	126.73
39	QG	501	GTP	C8-N7-C5	2.28	108.32	104.26
39	HB	501	GTP	N9-C8-N7	-2.28	109.17	113.40
39	PA	501	GTP	C5-C6-N1	2.28	119.06	113.25
39	QJ	501	GTP	N9-C8-N7	-2.28	109.17	113.40
39	QL	502	GTP	C3'-C2'-C1'	2.28	105.77	101.46
39	BH	501	GTP	N9-C8-N7	-2.28	109.18	113.40
39	OH	501	GTP	N9-C8-N7	-2.28	109.18	113.40
39	HI	501	GTP	O2B-PB-O3A	2.28	113.43	107.27
39	CG	501	GTP	C5-C4-N9	2.28	109.73	105.66
39	FK	501	GTP	C2-N1-C6	-2.28	120.98	125.11
39	TC	501	GTP	C1'-N9-C8	2.28	133.19	126.73
39	IG	501	GTP	C6-C5-N7	2.28	134.43	130.29
39	KB	501	GTP	C1'-N9-C8	-2.27	120.27	126.73
39	LA	501	GTP	C5-C6-N1	2.27	119.04	113.25
39	RG	501	GTP	C3'-C2'-C1'	2.27	105.76	101.46
39	DL	501	GTP	C8-N7-C5	2.27	108.31	104.26
39	OE	501	GTP	N1-C2-N3	-2.27	119.16	123.32
39	PJ	501	GTP	C8-N7-C5	2.27	108.31	104.26
39	FH	501	GTP	O5'-C5'-C4'	2.27	116.72	108.99
39	PF	501	GTP	C8-N7-C5	2.27	108.30	104.26
39	VF	501	GTP	C8-N7-C5	2.27	108.30	104.26
39	JA	501	GTP	C6-C5-N7	2.27	134.42	130.29
39	FF	501	GTP	N9-C8-N7	-2.27	109.19	113.40
39	CD	501	GTP	N9-C8-N7	-2.27	109.19	113.40
39	CC	501	GTP	C6-C5-N7	2.27	134.42	130.29
39	AC	501	GTP	C5-C6-N1	2.27	119.02	113.25
39	OI	501	GTP	C3'-C2'-C1'	2.27	105.75	101.46
39	DL	501	GTP	N9-C8-N7	-2.27	109.20	113.40
39	SJ	501	GTP	N9-C8-N7	-2.27	109.20	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	VB	501	GTP	C8-N7-C5	2.27	108.30	104.26
39	UA	501	GTP	C2-N1-C6	-2.27	121.00	125.11
39	EI	501	GTP	C1'-N9-C4	-2.27	119.79	126.49
39	FD	501	GTP	N9-C8-N7	-2.27	109.20	113.40
39	RK	501	GTP	N1-C2-N3	-2.27	119.17	123.32
39	VB	501	GTP	N9-C8-N7	-2.27	109.20	113.40
39	ML	501	GTP	C1'-N9-C8	-2.27	120.30	126.73
39	AH	501	GTP	N9-C8-N7	-2.26	109.20	113.40
39	GJ	501	GTP	N9-C8-N7	-2.26	109.20	113.40
39	PC	501	GTP	N9-C4-N3	2.26	130.48	125.95
39	RE	501	GTP	C3'-C2'-C1'	2.26	105.74	101.46
39	AG	501	GTP	N9-C4-N3	2.26	130.48	125.95
39	CD	501	GTP	C8-N7-C5	2.26	108.29	104.26
39	HG	501	GTP	C8-N7-C5	2.26	108.29	104.26
39	TH	501	GTP	N9-C8-N7	-2.26	109.21	113.40
39	FI	501	GTP	C3'-C2'-C1'	2.26	105.74	101.46
39	UG	501	GTP	C8-N7-C5	2.26	108.29	104.26
39	BD	501	GTP	N9-C8-N7	-2.26	109.21	113.40
39	OC	501	GTP	C5-C6-N1	2.26	119.01	113.25
39	PK	501	GTP	C8-N7-C5	2.26	108.29	104.26
39	WD	501	GTP	C8-N7-C5	2.26	108.29	104.26
39	BC	501	GTP	C6-C5-N7	2.26	134.40	130.29
39	FA	501	GTP	N9-C8-N7	-2.26	109.21	113.40
39	II	501	GTP	N1-C2-N3	-2.26	119.19	123.32
39	DI	501	GTP	C2-N1-C6	-2.26	121.02	125.11
39	FL	501	GTP	C1'-N9-C4	2.26	133.15	126.49
39	DG	501	GTP	N9-C4-N3	2.26	130.47	125.95
39	UB	501	GTP	C8-N7-C5	2.26	108.28	104.26
39	BB	501	GTP	C8-N7-C5	2.26	108.28	104.26
39	LJ	501	GTP	C8-N7-C5	2.26	108.28	104.26
39	TK	501	GTP	O2B-PB-O3A	2.25	113.37	107.27
39	TD	501	GTP	C8-N7-C5	2.25	108.28	104.26
39	OI	501	GTP	N1-C2-N3	-2.25	119.20	123.32
39	VH	501	GTP	C8-N7-C5	2.25	108.28	104.26
39	FD	501	GTP	O5'-C5'-C4'	2.25	116.67	108.99
39	LC	501	GTP	C8-N7-C5	2.25	108.27	104.26
39	ML	501	GTP	C8-N7-C5	2.25	108.27	104.26
39	OA	501	GTP	C2-N1-C6	-2.25	121.03	125.11
39	NE	501	GTP	C3'-C2'-C1'	2.25	105.72	101.46
39	HC	501	GTP	C8-N7-C5	2.25	108.27	104.26
39	UK	501	GTP	C3'-C2'-C1'	2.25	105.72	101.46
39	KF	501	GTP	C8-N7-C5	2.25	108.27	104.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	RH	501	GTP	C8-N7-C5	2.25	108.27	104.26
39	RM	501	GTP	C3'-C2'-C1'	2.25	105.71	101.46
39	WH	501	GTP	C8-N7-C5	2.25	108.26	104.26
39	FK	501	GTP	C5-C6-N1	2.25	118.97	113.25
39	WJ	501	GTP	N9-C8-N7	-2.25	109.23	113.40
39	NJ	501	GTP	C8-N7-C5	2.25	108.26	104.26
39	OF	501	GTP	O2G-PG-O3B	2.25	112.16	104.64
39	DJ	501	GTP	C8-N7-C5	2.24	108.26	104.26
39	UE	501	GTP	C3'-C2'-C1'	2.24	105.71	101.46
39	JI	501	GTP	C5-C6-N1	2.24	118.97	113.25
39	SI	501	GTP	C8-N7-C5	2.24	108.26	104.26
39	VG	501	GTP	N9-C4-N3	2.24	130.44	125.95
39	RK	501	GTP	N2-C2-N1	2.24	121.49	116.76
39	TM	501	GTP	N9-C4-N3	2.24	130.43	125.95
39	RI	501	GTP	C5-C6-N1	2.24	118.96	113.25
39	JA	501	GTP	C3'-C2'-C1'	2.24	105.70	101.46
39	NL	501	GTP	N9-C8-N7	-2.24	109.25	113.40
39	NC	501	GTP	O3G-PG-O3B	2.24	112.14	104.64
39	WG	501	GTP	C6-C5-N7	2.24	134.36	130.29
39	NA	501	GTP	C5-C6-N1	2.24	118.95	113.25
39	NI	501	GTP	N1-C2-N3	-2.24	119.23	123.32
39	VH	501	GTP	N9-C8-N7	-2.24	109.25	113.40
39	MC	501	GTP	C3'-C2'-C1'	2.24	105.69	101.46
39	EA	501	GTP	C5-C4-N9	2.24	109.66	105.66
39	NK	501	GTP	O2B-PB-O3A	2.24	113.32	107.27
39	ID	501	GTP	N9-C8-N7	-2.23	109.26	113.40
39	PK	501	GTP	C4-C5-N7	-2.23	107.13	110.67
39	PJ	501	GTP	C1'-N9-C8	-2.23	120.38	126.73
39	RM	501	GTP	C8-N7-C5	2.23	108.24	104.26
39	WI	501	GTP	C1'-N9-C4	-2.23	119.89	126.49
39	PL	501	GTP	N9-C8-N7	-2.23	109.26	113.40
39	NC	501	GTP	C6-C5-N7	2.23	134.35	130.29
39	FG	501	GTP	C3'-C2'-C1'	2.23	105.69	101.46
39	EB	501	GTP	C8-N7-C5	2.23	108.24	104.26
39	WD	501	GTP	N9-C8-N7	-2.23	109.26	113.40
39	WH	501	GTP	N1-C2-N3	-2.23	119.24	123.32
39	SC	501	GTP	N9-C4-N3	2.23	130.41	125.95
39	CK	501	GTP	C4-C5-N7	-2.23	107.14	110.67
39	TG	501	GTP	C3'-C2'-C1'	2.23	105.68	101.46
39	MM	501	GTP	C5-C6-N1	2.23	118.93	113.25
39	TC	501	GTP	C6-C5-N7	2.23	134.34	130.29
39	FG	501	GTP	N9-C4-N3	2.23	130.41	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	SF	501	GTP	C4'-O4'-C1'	-2.23	104.55	109.47
39	QL	502	GTP	O2B-PB-O3A	2.23	113.29	107.27
39	KI	501	GTP	C5-C6-N1	2.23	118.92	113.25
39	PI	501	GTP	C3'-C2'-C1'	2.23	105.67	101.46
39	SM	501	GTP	C3'-C2'-C1'	2.22	105.67	101.46
39	FC	501	GTP	C4-C5-N7	-2.22	107.15	110.67
39	OD	501	GTP	O2B-PB-O3A	2.22	113.28	107.27
39	PE	501	GTP	C8-N7-C5	2.22	108.22	104.26
39	FA	501	GTP	O4'-C1'-N9	-2.22	103.32	108.36
39	TD	501	GTP	N9-C8-N7	-2.22	109.28	113.40
39	GK	501	GTP	C3'-C2'-C1'	2.22	105.66	101.46
39	OA	501	GTP	N1-C2-N3	-2.22	119.26	123.32
39	KC	501	GTP	C8-N7-C5	2.22	108.22	104.26
39	ND	501	GTP	O5'-C5'-C4'	2.22	116.55	108.99
39	LD	501	GTP	N9-C8-N7	-2.22	109.29	113.40
39	SM	501	GTP	N2-C2-N1	2.22	121.44	116.76
39	AJ	501	GTP	C8-N7-C5	2.22	108.21	104.26
39	GG	501	GTP	C3'-C2'-C1'	2.22	105.66	101.46
39	SK	501	GTP	O2B-PB-O3A	2.22	113.27	107.27
39	GD	501	GTP	N9-C8-N7	-2.22	109.29	113.40
39	PA	501	GTP	N1-C2-N3	-2.22	119.26	123.32
39	DG	501	GTP	C6-C5-N7	2.22	134.32	130.29
39	PM	501	GTP	C6-C5-C4	-2.22	115.50	118.83
39	HC	501	GTP	N9-C4-N3	2.22	130.38	125.95
39	NA	501	GTP	C2-N1-C6	-2.21	121.10	125.11
39	QD	502	GTP	C5-C6-N1	2.21	118.89	113.25
39	JE	501	GTP	N9-C4-N3	2.21	130.38	125.95
39	WA	501	GTP	C8-N7-C5	2.21	108.20	104.26
39	NG	501	GTP	N1-C2-N3	-2.21	119.27	123.32
39	GE	501	GTP	C8-N7-C5	2.21	108.20	104.26
39	FC	501	GTP	C2'-C3'-C4'	2.21	106.88	102.61
39	FC	501	GTP	C3'-C2'-C1'	2.21	105.65	101.46
39	RM	501	GTP	N9-C4-N3	2.21	130.38	125.95
39	TM	501	GTP	C3'-C2'-C1'	2.21	105.65	101.46
39	JC	501	GTP	C3'-C2'-C1'	2.21	105.64	101.46
39	TM	501	GTP	C8-N7-C5	2.21	108.20	104.26
39	VG	501	GTP	C4-C5-N7	-2.21	107.17	110.67
39	NK	501	GTP	C8-N7-C5	2.21	108.20	104.26
39	WC	501	GTP	C6-C5-N7	2.21	134.31	130.29
39	BD	501	GTP	C8-N7-C5	2.21	108.19	104.26
39	HI	501	GTP	C3'-C2'-C1'	2.21	105.64	101.46
39	UF	501	GTP	N9-C8-N7	-2.21	109.31	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	IE	501	GTP	C5-C4-N9	2.21	109.61	105.66
39	RG	501	GTP	N9-C4-N3	2.21	130.37	125.95
39	FF	501	GTP	C8-N7-C5	2.21	108.19	104.26
39	SL	501	GTP	C8-N7-C5	2.21	108.19	104.26
39	WG	501	GTP	C5-C4-N9	2.21	109.60	105.66
39	IL	501	GTP	N9-C8-N7	-2.20	109.31	113.40
39	VF	501	GTP	N9-C8-N7	-2.20	109.31	113.40
39	IL	501	GTP	C8-N7-C5	2.20	108.19	104.26
39	OG	501	GTP	C6-C5-N7	2.20	134.30	130.29
39	EG	501	GTP	C1'-N9-C4	-2.20	119.98	126.49
39	PI	501	GTP	C8-N7-C5	2.20	108.19	104.26
39	BB	501	GTP	N9-C8-N7	-2.20	109.32	113.40
39	GC	501	GTP	C4-C5-N7	-2.20	107.18	110.67
39	TG	501	GTP	N9-C4-N3	2.20	130.36	125.95
39	OK	501	GTP	C8-N7-C5	2.20	108.18	104.26
39	DI	501	GTP	C5-C6-N1	2.20	118.85	113.25
39	KG	501	GTP	C3'-C2'-C1'	2.20	105.62	101.46
39	GI	501	GTP	O2B-PB-O3A	2.20	113.22	107.27
39	KK	501	GTP	C8-N7-C5	2.20	108.18	104.26
39	IA	501	GTP	C6-C5-N7	2.20	134.29	130.29
39	DH	501	GTP	O2B-PB-O3A	2.20	113.21	107.27
39	HF	501	GTP	C8-N7-C5	2.20	108.17	104.26
39	NJ	501	GTP	N9-C8-N7	-2.19	109.33	113.40
39	IC	501	GTP	N1-C2-N3	-2.19	119.31	123.32
39	KH	501	GTP	O5'-C5'-C4'	2.19	116.46	108.99
39	QD	502	GTP	C6-C5-N7	2.19	134.28	130.29
39	CC	501	GTP	C5-C6-N1	2.19	118.84	113.25
39	DC	501	GTP	O2B-PB-O3A	2.19	113.20	107.27
39	FL	501	GTP	N2-C2-N3	2.19	123.95	119.67
39	HI	501	GTP	C4-C5-N7	-2.19	107.19	110.67
39	LC	501	GTP	N9-C4-N3	2.19	130.34	125.95
39	UL	501	GTP	C8-N7-C5	2.19	108.16	104.26
39	HI	501	GTP	C2'-C3'-C4'	2.19	106.84	102.61
39	QC	501	GTP	C5-C6-N1	2.19	118.83	113.25
39	GA	501	GTP	C3'-C2'-C1'	2.19	105.60	101.46
39	FG	501	GTP	C8-N7-C5	2.19	108.16	104.26
39	KE	501	GTP	C8-N7-C5	2.19	108.16	104.26
39	VG	501	GTP	N1-C2-N3	-2.19	119.31	123.32
39	RK	501	GTP	O3G-PG-O3B	2.19	111.97	104.64
39	HA	501	GTP	C1'-N9-C4	-2.19	120.03	126.49
39	GJ	501	GTP	C8-N7-C5	2.19	108.16	104.26
39	VA	501	GTP	N9-C4-N3	2.19	130.32	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	GF	501	GTP	N9-C8-N7	-2.19	109.35	113.40
39	IM	501	GTP	C1'-N9-C4	-2.18	120.03	126.49
39	BI	501	GTP	C8-N7-C5	2.18	108.15	104.26
39	UK	501	GTP	C8-N7-C5	2.18	108.15	104.26
39	UG	501	GTP	C3'-C2'-C1'	2.18	105.59	101.46
39	VG	501	GTP	C6-C5-N7	2.18	134.26	130.29
39	KE	501	GTP	C3'-C2'-C1'	2.18	105.59	101.46
39	CM	501	GTP	C5-C6-N1	2.18	118.81	113.25
39	MG	501	GTP	N9-C4-N3	2.18	130.32	125.95
39	DC	501	GTP	N1-C2-N3	-2.18	119.33	123.32
39	AI	501	GTP	C6-C5-N7	2.18	134.26	130.29
39	EB	501	GTP	O2B-PB-O3A	2.18	113.17	107.27
39	AM	501	GTP	C4-C5-N7	-2.18	107.21	110.67
39	IF	501	GTP	O2G-PG-O3B	2.18	111.95	104.64
39	JI	501	GTP	N9-C4-N3	2.18	130.31	125.95
39	BK	501	GTP	N9-C4-N3	2.18	130.31	125.95
39	MM	501	GTP	O2B-PB-O3A	2.18	113.17	107.27
39	PM	501	GTP	C3'-C2'-C1'	2.18	105.59	101.46
39	VC	501	GTP	C5-C4-N9	2.18	109.56	105.66
39	GB	501	GTP	N9-C8-N7	-2.18	109.36	113.40
39	OC	501	GTP	O6-C6-N1	-2.18	116.02	120.11
39	PD	501	GTP	N2-C2-N3	2.18	123.92	119.67
39	SC	501	GTP	C5-C6-N1	2.18	118.80	113.25
39	OI	501	GTP	N9-C4-N3	2.18	130.31	125.95
39	ML	501	GTP	N9-C8-N7	-2.18	109.36	113.40
39	CI	501	GTP	C6-C5-N7	2.18	134.25	130.29
39	NL	501	GTP	C8-N7-C5	2.18	108.14	104.26
39	WB	501	GTP	O2G-PG-O3B	2.18	111.93	104.64
39	BE	501	GTP	C6-C5-N7	2.18	134.25	130.29
39	BB	501	GTP	C1'-N9-C8	-2.17	120.55	126.73
39	WB	501	GTP	C1'-N9-C8	-2.17	120.55	126.73
39	DC	501	GTP	C3'-C2'-C1'	2.17	105.58	101.46
39	GI	501	GTP	C3'-C2'-C1'	2.17	105.58	101.46
39	AK	501	GTP	N9-C8-N7	-2.17	109.37	113.40
39	GD	501	GTP	C8-N7-C5	2.17	108.13	104.26
39	EC	501	GTP	N2-C2-N3	2.17	123.91	119.67
39	II	501	GTP	C5-C4-N9	2.17	109.54	105.66
39	HB	501	GTP	C8-N7-C5	2.17	108.12	104.26
39	MD	502	GTP	N9-C4-N3	2.17	130.29	125.95
39	IA	501	GTP	N9-C4-N3	2.17	130.29	125.95
39	CE	501	GTP	N1-C2-N3	-2.17	119.36	123.32
39	EK	501	GTP	O6-C6-N1	-2.17	116.04	120.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	LG	501	GTP	C3'-C2'-C1'	2.16	105.56	101.46
39	MK	501	GTP	N1-C2-N3	-2.16	119.36	123.32
39	HE	501	GTP	N9-C4-N3	2.16	130.28	125.95
39	LB	501	GTP	C8-N7-C5	2.16	108.11	104.26
39	TL	501	GTP	C2'-C1'-N9	-2.16	107.23	113.25
39	GH	501	GTP	C8-N7-C5	2.16	108.11	104.26
39	PH	501	GTP	C8-N7-C5	2.16	108.11	104.26
39	AJ	501	GTP	O2B-PB-O3A	2.16	113.12	107.27
39	WA	501	GTP	C3'-C2'-C1'	2.16	105.55	101.46
39	RK	501	GTP	C8-N7-C5	2.16	108.11	104.26
39	AM	501	GTP	C6-C5-N7	2.16	134.22	130.29
39	IM	501	GTP	N1-C2-N3	-2.16	119.37	123.32
39	PH	501	GTP	N9-C8-N7	-2.16	109.40	113.40
39	AK	501	GTP	O4'-C1'-N9	-2.16	103.47	108.36
39	TG	501	GTP	C8-N7-C5	2.16	108.11	104.26
39	EE	501	GTP	C1'-N9-C4	-2.16	120.11	126.49
39	LJ	501	GTP	N9-C8-N7	-2.16	109.40	113.40
39	AI	501	GTP	C5-C6-N1	2.16	118.75	113.25
39	KB	501	GTP	N1-C2-N3	-2.16	119.37	123.32
39	MM	501	GTP	C5-C4-N9	2.16	109.52	105.66
39	LG	501	GTP	O2B-PB-O3A	2.16	113.11	107.27
39	IJ	501	GTP	O5'-C5'-C4'	2.16	116.34	108.99
39	RB	501	GTP	C4'-O4'-C1'	-2.16	104.71	109.47
39	JD	501	GTP	N9-C8-N7	-2.16	109.40	113.40
39	QC	501	GTP	N1-C2-N3	-2.16	119.38	123.32
39	KE	501	GTP	O2B-PB-O3A	2.15	113.10	107.27
39	BJ	501	GTP	C1'-N9-C8	-2.15	120.61	126.73
39	DI	501	GTP	O3G-PG-O3B	2.15	111.85	104.64
39	GK	501	GTP	C2'-C3'-C4'	2.15	106.76	102.61
39	CI	501	GTP	C8-N7-C5	2.15	108.09	104.26
39	HG	501	GTP	O3G-PG-O3B	2.15	111.84	104.64
39	UB	501	GTP	N9-C8-N7	-2.15	109.41	113.40
39	UC	501	GTP	N2-C2-N1	2.15	121.30	116.76
39	QB	501	GTP	O5'-C5'-C4'	2.15	116.31	108.99
39	HG	501	GTP	C3'-C2'-C1'	2.15	105.53	101.46
39	CM	501	GTP	N2-C2-N1	2.15	121.29	116.76
39	TL	501	GTP	O2B-PB-O3A	2.15	113.08	107.27
39	NI	501	GTP	O6-C6-N1	-2.14	116.08	120.11
39	SM	501	GTP	C5-C6-N1	2.14	118.71	113.25
39	JD	501	GTP	C8-N7-C5	2.14	108.08	104.26
39	KK	501	GTP	C3'-C2'-C1'	2.14	105.52	101.46
39	EF	501	GTP	O2B-PB-O3A	2.14	113.06	107.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	EB	501	GTP	O2G-PG-O3B	2.14	111.82	104.64
39	KH	501	GTP	N2-C2-N3	2.14	123.85	119.67
39	LD	501	GTP	O2B-PB-O3A	2.14	113.06	107.27
39	IK	501	GTP	C5-C6-N1	2.14	118.70	113.25
39	LC	501	GTP	C3'-C2'-C1'	2.14	105.51	101.46
39	KA	501	GTP	N1-C2-N3	-2.14	119.41	123.32
39	PM	501	GTP	O2A-PA-O3A	2.14	113.06	107.27
39	SK	501	GTP	C5-C6-N1	2.14	118.70	113.25
39	QK	501	GTP	C8-N7-C5	2.14	108.07	104.26
39	OB	501	GTP	O2G-PG-O3B	2.14	111.81	104.64
39	CL	501	GTP	O2B-PB-O3A	2.14	113.05	107.27
39	AC	501	GTP	C6-C5-N7	2.14	134.18	130.29
39	TE	501	GTP	C4-C5-N7	-2.14	107.28	110.67
39	UE	501	GTP	C8-N7-C5	2.14	108.07	104.26
39	UE	501	GTP	N9-C4-N3	2.14	130.22	125.95
39	OK	501	GTP	O6-C6-C5	-2.14	120.90	126.53
39	WB	501	GTP	N9-C8-N7	-2.14	109.44	113.40
39	RG	501	GTP	C8-N7-C5	2.14	108.06	104.26
39	LF	501	GTP	O4'-C1'-N9	2.13	113.20	108.36
39	KG	501	GTP	C8-N7-C5	2.13	108.06	104.26
39	MI	501	GTP	N9-C4-N3	2.13	130.22	125.95
39	HC	501	GTP	O2G-PG-O1G	-2.13	102.52	110.83
39	WK	501	GTP	O3G-PG-O3B	2.13	111.79	104.64
39	MI	501	GTP	C5-C6-N1	2.13	118.68	113.25
39	LK	501	GTP	O6-C6-C5	-2.13	120.91	126.53
39	VG	501	GTP	O3G-PG-O3B	2.13	111.78	104.64
39	TK	501	GTP	C8-N7-C5	2.13	108.06	104.26
39	VG	501	GTP	N2-C2-N1	2.13	121.26	116.76
39	AJ	501	GTP	O2G-PG-O3B	2.13	111.78	104.64
39	DA	501	GTP	C4-C5-N7	-2.13	107.30	110.67
39	GC	501	GTP	O4'-C1'-N9	-2.13	103.53	108.36
39	PL	501	GTP	C8-N7-C5	2.13	108.05	104.26
39	GE	501	GTP	C4-C5-N7	-2.13	107.30	110.67
39	MI	501	GTP	C6-C5-N7	2.13	134.16	130.29
39	PJ	501	GTP	N9-C8-N7	-2.13	109.46	113.40
39	HC	501	GTP	C3'-C2'-C1'	2.13	105.48	101.46
39	PE	501	GTP	N1-C2-N3	-2.13	119.43	123.32
39	NE	501	GTP	C8-N7-C5	2.13	108.05	104.26
39	OC	501	GTP	O2B-PB-O3A	2.12	113.02	107.27
39	VI	501	GTP	C8-N7-C5	2.12	108.05	104.26
39	GG	501	GTP	C4-C5-N7	-2.12	107.30	110.67
39	DF	501	GTP	N1-C2-N3	-2.12	119.44	123.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	SE	501	GTP	C5-C6-N1	2.12	118.66	113.25
39	HE	501	GTP	N2-C2-N1	2.12	121.24	116.76
39	VC	501	GTP	C1'-N9-C4	-2.12	120.22	126.49
39	CI	501	GTP	N9-C4-N3	2.12	130.20	125.95
39	LF	501	GTP	O2G-PG-O3B	2.12	111.75	104.64
39	UC	501	GTP	N1-C2-N3	-2.12	119.44	123.32
39	FL	501	GTP	O2B-PB-O3A	2.12	113.01	107.27
39	PM	501	GTP	C5-C4-N9	2.12	109.45	105.66
39	GA	501	GTP	N1-C2-N3	-2.12	119.44	123.32
39	JK	501	GTP	C5-C6-N1	2.12	118.65	113.25
39	UK	501	GTP	N9-C4-N3	2.12	130.19	125.95
39	HC	501	GTP	C2'-C3'-C4'	2.12	106.70	102.61
39	GC	501	GTP	C2-N1-C6	-2.12	121.27	125.11
39	KF	501	GTP	N9-C8-N7	-2.12	109.47	113.40
39	NJ	501	GTP	C1'-N9-C4	2.12	132.74	126.49
39	II	501	GTP	C2-N1-C6	-2.12	121.27	125.11
39	CI	501	GTP	C4-C5-N7	-2.12	107.31	110.67
39	VF	501	GTP	C1'-N9-C8	-2.12	120.72	126.73
39	UL	501	GTP	N9-C8-N7	-2.11	109.48	113.40
39	DC	501	GTP	N9-C8-N7	-2.11	109.48	113.40
39	WC	501	GTP	N9-C4-N3	2.11	130.18	125.95
39	FC	501	GTP	C5-C6-N1	2.11	118.63	113.25
39	SL	501	GTP	N9-C8-N7	-2.11	109.49	113.40
39	DC	501	GTP	O3G-PG-O3B	2.11	111.71	104.64
39	JG	501	GTP	C1'-N9-C4	-2.11	120.26	126.49
39	PH	501	GTP	C1'-N9-C4	2.11	132.72	126.49
39	VA	501	GTP	C5-C6-N1	2.11	118.62	113.25
39	MG	501	GTP	N1-C2-N3	-2.11	119.46	123.32
39	KA	501	GTP	N2-C2-N1	2.11	121.21	116.76
39	JI	501	GTP	C6-C5-N7	2.11	134.12	130.29
39	KA	501	GTP	C6-C5-N7	2.11	134.12	130.29
39	QK	501	GTP	N1-C2-N3	-2.11	119.47	123.32
39	PM	501	GTP	O5'-C5'-C4'	2.11	116.16	108.99
39	SE	501	GTP	N9-C4-N3	2.11	130.16	125.95
39	BI	501	GTP	N9-C8-N7	-2.10	109.50	113.40
39	EE	501	GTP	C1'-N9-C8	2.10	132.70	126.73
39	GL	501	GTP	N9-C8-N7	-2.10	109.50	113.40
39	GC	501	GTP	O3G-PG-O3B	2.10	111.68	104.64
39	LB	501	GTP	N9-C8-N7	-2.10	109.51	113.40
39	EE	501	GTP	C5-C4-N9	2.10	109.41	105.66
39	LK	501	GTP	C3'-C2'-C1'	2.10	105.43	101.46
39	LI	501	GTP	C5-C4-N9	2.10	109.41	105.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	MK	501	GTP	N9-C8-N7	-2.10	109.51	113.40
39	BH	501	GTP	O5'-C5'-C4'	2.09	116.12	108.99
39	FH	501	GTP	C5-C6-N1	2.09	118.58	113.25
39	PC	501	GTP	C6-C5-N7	2.09	134.10	130.29
39	CM	501	GTP	O6-C6-N1	-2.09	116.18	120.11
39	NC	501	GTP	C4-C5-N7	-2.09	107.35	110.67
39	WF	501	GTP	O2G-PG-O3B	2.09	111.65	104.64
39	HA	501	GTP	C3'-C2'-C1'	2.09	105.42	101.46
39	HK	501	GTP	N1-C2-N3	-2.09	119.50	123.32
39	GA	501	GTP	C4-C5-N7	-2.09	107.36	110.67
39	AB	501	GTP	N1-C2-N3	-2.09	119.50	123.32
39	RH	501	GTP	N9-C8-N7	-2.09	109.53	113.40
39	RC	501	GTP	C6-C5-N7	2.09	134.09	130.29
39	FK	501	GTP	C4-C5-N7	-2.09	107.36	110.67
39	IH	501	GTP	N1-C2-N3	-2.08	119.51	123.32
39	PM	501	GTP	O2'-C2'-C1'	2.08	117.28	110.10
39	QI	501	GTP	C5-C6-N1	2.08	118.56	113.25
39	IC	501	GTP	C2-N1-C6	-2.08	121.33	125.11
39	CB	501	GTP	O2B-PB-O3A	2.08	112.91	107.27
39	QC	501	GTP	C5-C4-N9	2.08	109.38	105.66
39	HG	501	GTP	N1-C2-N3	-2.08	119.51	123.32
39	RE	501	GTP	C4-C5-N7	-2.08	107.37	110.67
39	UI	501	GTP	C5-C6-N1	2.08	118.55	113.25
39	GG	501	GTP	N9-C4-N3	2.08	130.12	125.95
39	PF	501	GTP	N9-C8-N7	-2.08	109.54	113.40
39	WI	501	GTP	N2-C2-N1	2.08	121.15	116.76
39	IE	501	GTP	N9-C4-N3	2.08	130.11	125.95
39	QC	501	GTP	C2-N1-C6	-2.08	121.34	125.11
39	PL	501	GTP	O2G-PG-O3B	2.08	111.60	104.64
39	QL	502	GTP	C8-N7-C5	2.08	107.96	104.26
39	SG	501	GTP	C6-C5-N7	2.08	134.07	130.29
39	TI	501	GTP	C4-C5-N7	-2.08	107.38	110.67
39	EF	501	GTP	O4'-C4'-C5'	2.08	115.99	109.33
39	AC	501	GTP	N9-C4-N3	2.08	130.11	125.95
39	FA	501	GTP	N2-C2-N1	2.08	121.14	116.76
39	ML	501	GTP	N1-C2-N3	-2.08	119.52	123.32
39	NA	501	GTP	N1-C2-N3	-2.08	119.52	123.32
39	PE	501	GTP	C3'-C2'-C1'	2.07	105.39	101.46
39	FC	501	GTP	N9-C4-N3	2.07	130.10	125.95
39	VG	501	GTP	O2B-PB-O3A	2.07	112.88	107.27
39	TI	501	GTP	C8-N7-C5	2.07	107.95	104.26
39	LE	501	GTP	O6-C6-C5	-2.07	121.06	126.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	PC	501	GTP	C4-C5-N7	-2.07	107.39	110.67
39	OG	501	GTP	C4-C5-N7	-2.07	107.39	110.67
39	AL	501	GTP	O2G-PG-O3B	2.07	111.58	104.64
39	DE	501	GTP	C5-C4-N9	2.07	109.36	105.66
39	UE	501	GTP	O2G-PG-O3B	2.07	111.57	104.64
39	FD	501	GTP	C8-N7-C5	2.07	107.94	104.26
39	OA	501	GTP	O2B-PB-O3A	2.07	112.86	107.27
39	DA	501	GTP	O2B-PB-O3A	2.07	112.86	107.27
39	MD	502	GTP	N1-C2-N3	-2.07	119.54	123.32
39	PI	501	GTP	C6-C5-N7	2.07	134.05	130.29
39	TE	501	GTP	C6-C5-N7	2.07	134.05	130.29
39	SB	501	GTP	N9-C8-N7	-2.07	109.57	113.40
39	HC	501	GTP	C4-C5-N7	-2.07	107.39	110.67
39	PF	501	GTP	C1'-N9-C4	2.07	132.59	126.49
39	LD	501	GTP	C1'-N9-C8	-2.07	120.86	126.73
39	PM	501	GTP	C1'-N9-C8	2.07	132.60	126.73
39	GF	501	GTP	C8-N7-C5	2.07	107.94	104.26
39	RH	501	GTP	C1'-N9-C8	-2.06	120.86	126.73
39	RE	501	GTP	C6-C5-N7	2.06	134.05	130.29
39	WI	501	GTP	O6-C6-N1	-2.06	116.23	120.11
39	WE	501	GTP	O2B-PB-O3B	2.06	112.85	107.27
39	OG	501	GTP	O2B-PB-O3A	2.06	112.84	107.27
39	UA	501	GTP	O6-C6-N1	-2.06	116.24	120.11
39	EI	501	GTP	C1'-N9-C8	2.06	132.58	126.73
39	KF	501	GTP	C1'-N9-C8	-2.06	120.88	126.73
39	NE	501	GTP	N9-C4-N3	2.06	130.07	125.95
39	PK	501	GTP	N9-C4-N3	2.06	130.07	125.95
39	MD	502	GTP	C8-N7-C5	2.06	107.93	104.26
39	RL	501	GTP	C8-N7-C5	2.06	107.93	104.26
39	KA	501	GTP	C4-C5-N7	-2.06	107.41	110.67
39	UF	501	GTP	C1'-N9-C8	-2.06	120.89	126.73
39	AE	501	GTP	C6-C5-N7	2.06	134.03	130.29
39	WI	501	GTP	C1'-N9-C8	2.06	132.58	126.73
39	JC	501	GTP	C4-C5-N7	-2.06	107.41	110.67
39	EL	501	GTP	O2B-PB-O3A	2.05	112.83	107.27
39	FK	501	GTP	N1-C2-N3	-2.05	119.56	123.32
39	JE	501	GTP	N1-C2-N3	-2.05	119.56	123.32
39	FB	501	GTP	O2G-PG-O3B	2.05	111.52	104.64
39	JA	501	GTP	C4-C5-N7	-2.05	107.42	110.67
39	ND	501	GTP	O2B-PB-O3A	2.05	112.82	107.27
39	KC	501	GTP	C3'-C2'-C1'	2.05	105.35	101.46
39	IJ	501	GTP	O4'-C1'-N9	2.05	113.01	108.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	MC	501	GTP	C6-C5-N7	2.05	134.02	130.29
39	HJ	501	GTP	O5'-C5'-C4'	2.05	115.98	108.99
39	FG	501	GTP	C4-C5-N7	-2.05	107.42	110.67
39	AG	501	GTP	O2B-PB-O3A	2.05	112.82	107.27
39	FA	501	GTP	C2'-C3'-C4'	2.05	106.57	102.61
39	VF	501	GTP	O2B-PB-O3A	2.05	112.82	107.27
39	QK	501	GTP	N2-C2-N1	2.05	121.09	116.76
39	PE	501	GTP	N9-C4-N3	2.05	130.05	125.95
39	DK	501	GTP	O6-C6-N1	-2.05	116.26	120.11
39	HE	501	GTP	O3G-PG-O3B	2.05	111.51	104.64
39	RM	501	GTP	C4-C5-N7	-2.05	107.42	110.67
39	CG	501	GTP	C5-C6-N1	2.05	118.47	113.25
39	GJ	501	GTP	N1-C2-N3	-2.05	119.57	123.32
39	VK	501	GTP	C5-C4-N9	2.05	109.32	105.66
39	TK	501	GTP	C6-C5-N7	2.05	134.01	130.29
39	UG	501	GTP	N1-C2-N3	-2.05	119.58	123.32
39	VE	501	GTP	C1'-N9-C8	2.05	132.54	126.73
39	IE	501	GTP	O6-C6-N1	-2.04	116.27	120.11
39	RD	501	GTP	O2B-PB-O3A	2.04	112.80	107.27
39	HK	501	GTP	C5-C4-N9	2.04	109.31	105.66
39	KI	501	GTP	C2-N1-C6	-2.04	121.41	125.11
39	II	501	GTP	C1'-N9-C4	-2.04	120.45	126.49
39	QF	501	GTP	O5'-C5'-C4'	2.04	115.94	108.99
39	KF	501	GTP	N1-C2-N3	-2.04	119.59	123.32
39	BM	501	GTP	C5-C6-N1	2.04	118.45	113.25
39	FJ	501	GTP	C8-N7-C5	2.04	107.89	104.26
39	BD	501	GTP	O5'-C5'-C4'	2.04	115.94	108.99
39	GC	501	GTP	C6-C5-N7	2.04	134.00	130.29
39	NC	501	GTP	C3'-C2'-C1'	2.04	105.32	101.46
39	GI	501	GTP	N1-C2-N3	-2.04	119.59	123.32
39	KE	501	GTP	N1-C2-N3	-2.04	119.59	123.32
39	IH	501	GTP	O2G-PG-O3B	2.04	111.47	104.64
39	OA	501	GTP	C5-C4-N9	2.04	109.30	105.66
39	CI	501	GTP	N1-C2-N3	-2.04	119.59	123.32
39	BD	501	GTP	O2B-PB-O3A	2.04	112.78	107.27
39	PA	501	GTP	C2-N1-C6	-2.04	121.42	125.11
39	AL	501	GTP	O5'-C5'-C4'	2.04	115.93	108.99
39	RC	501	GTP	C4-C5-N7	-2.04	107.44	110.67
39	LI	501	GTP	N1-C2-N3	-2.04	119.59	123.32
39	IJ	501	GTP	O2B-PB-O3A	2.04	112.78	107.27
39	PF	501	GTP	O2B-PB-O3A	2.04	112.78	107.27
39	OI	501	GTP	C8-N7-C5	2.04	107.89	104.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	LA	501	GTP	N9-C4-N3	2.03	130.02	125.95
39	LE	501	GTP	C3'-C2'-C1'	2.03	105.31	101.46
39	UE	501	GTP	C4-C5-N7	-2.03	107.45	110.67
39	AM	501	GTP	N2-C2-N1	2.03	121.05	116.76
39	QL	502	GTP	N1-C2-N3	-2.03	119.60	123.32
39	OA	501	GTP	O6-C6-N1	-2.03	116.29	120.11
39	AE	501	GTP	N9-C4-N3	2.03	130.02	125.95
39	WA	501	GTP	C6-C5-N7	2.03	133.99	130.29
39	AE	501	GTP	N1-C2-N3	-2.03	119.60	123.32
39	BM	501	GTP	O3'-C3'-C4'	-2.03	105.25	111.08
39	PG	501	GTP	C4-C5-N7	-2.03	107.45	110.67
39	UI	501	GTP	O3G-PG-O3B	2.03	111.45	104.64
39	IM	501	GTP	C1'-N9-C8	2.03	132.50	126.73
39	NK	501	GTP	O6-C6-C5	-2.03	121.17	126.53
39	BB	501	GTP	N1-C2-N3	-2.03	119.61	123.32
39	VI	501	GTP	N1-C2-N3	-2.03	119.61	123.32
39	VC	501	GTP	C1'-N9-C8	2.03	132.50	126.73
39	WE	501	GTP	O6-C6-N1	-2.03	116.30	120.11
39	WH	501	GTP	N2-C2-N3	2.03	123.63	119.67
39	VF	501	GTP	O3A-PA-O1A	2.03	116.80	110.70
39	EL	501	GTP	N9-C8-N7	-2.03	109.64	113.40
39	AG	501	GTP	C6-C5-N7	2.03	133.98	130.29
39	TI	501	GTP	N1-C2-N3	-2.03	119.61	123.32
39	WK	501	GTP	N1-C2-N3	-2.03	119.61	123.32
39	KG	501	GTP	N1-C2-N3	-2.02	119.62	123.32
39	SG	501	GTP	N1-C2-N3	-2.02	119.62	123.32
39	GF	501	GTP	O2G-PG-O3B	2.02	111.42	104.64
39	DC	501	GTP	C5-C6-N1	2.02	118.40	113.25
39	EE	501	GTP	N1-C2-N3	-2.02	119.62	123.32
39	HL	501	GTP	C8-N7-C5	2.02	107.86	104.26
39	FC	501	GTP	O3G-PG-O3B	2.02	111.41	104.64
39	DJ	501	GTP	N2-C2-N3	2.02	123.61	119.67
39	SI	501	GTP	C1'-N9-C4	-2.02	120.52	126.49
39	WE	501	GTP	N1-C2-N3	-2.02	119.62	123.32
39	QI	501	GTP	C1'-N9-C8	2.02	132.47	126.73
39	DC	501	GTP	C2'-C3'-C4'	2.02	106.51	102.61
39	KG	501	GTP	C6-C5-N7	2.02	133.96	130.29
39	AI	501	GTP	C5-C4-N9	2.02	109.27	105.66
39	DF	501	GTP	N2-C2-N3	2.02	123.61	119.67
39	IG	501	GTP	N1-C2-N3	-2.02	119.63	123.32
39	NH	501	GTP	C8-N7-C5	2.02	107.85	104.26
39	PC	501	GTP	C2'-C3'-C4'	2.02	106.50	102.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	DK	501	GTP	C3'-C2'-C1'	2.02	105.28	101.46
39	IM	501	GTP	N2-C2-N1	2.01	121.01	116.76
39	KB	501	GTP	C1'-N9-C4	2.01	132.43	126.49
39	EI	501	GTP	N1-C2-N3	-2.01	119.64	123.32
39	WA	501	GTP	N1-C2-N3	-2.01	119.64	123.32
39	VI	501	GTP	C4-C5-N7	-2.01	107.48	110.67
39	EC	501	GTP	C3'-C2'-C1'	2.01	105.27	101.46
39	RG	501	GTP	N1-C2-N3	-2.01	119.64	123.32
39	FK	501	GTP	C8-N7-C5	2.01	107.84	104.26
39	MC	501	GTP	C4-C5-N7	-2.01	107.48	110.67
39	KK	501	GTP	C6-C5-N7	2.01	133.95	130.29
39	OE	501	GTP	C5-C4-N9	2.01	109.25	105.66
39	KE	501	GTP	C4-C5-N7	-2.01	107.48	110.67
39	SC	501	GTP	C6-C5-N7	2.01	133.95	130.29
39	AG	501	GTP	O3G-PG-O3B	2.01	111.37	104.64
39	CL	501	GTP	O2'-C2'-C1'	2.01	117.02	110.10
39	HC	501	GTP	N1-C2-N3	-2.01	119.65	123.32
39	PM	501	GTP	N9-C8-N7	-2.01	109.68	113.40
39	HC	501	GTP	O3G-PG-O2G	-2.01	100.28	107.80
39	CG	501	GTP	O6-C6-N1	-2.01	116.34	120.11
39	HA	501	GTP	N9-C8-N7	-2.01	109.68	113.40
39	LG	501	GTP	C6-C5-N7	2.00	133.94	130.29
39	RM	501	GTP	N1-C2-N3	-2.00	119.65	123.32
39	TG	501	GTP	N1-C2-N3	-2.00	119.65	123.32
39	MF	501	GTP	O2B-PB-O3A	2.00	112.69	107.27
39	OE	501	GTP	O2B-PB-O3A	2.00	112.68	107.27
39	AE	501	GTP	O3G-PG-O3B	2.00	111.35	104.64
39	FC	501	GTP	C6-C5-N7	2.00	133.93	130.29
39	NJ	501	GTP	N2-C2-N3	2.00	123.58	119.67
39	AD	501	GTP	O5'-C5'-C4'	2.00	115.80	108.99
39	PA	501	GTP	O6-C6-N1	-2.00	116.35	120.11

There are no chirality outliers.

All (1884) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
39	AB	501	GTP	C5'-O5'-PA-O3A
39	AB	501	GTP	C5'-O5'-PA-O1A
39	AB	501	GTP	C5'-O5'-PA-O2A
39	AF	501	GTP	C5'-O5'-PA-O2A
39	AK	501	GTP	PB-O3B-PG-O2G
39	AK	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
39	BF	501	GTP	C5'-O5'-PA-O2A
39	BJ	501	GTP	O4'-C1'-N9-C8
39	BJ	501	GTP	O4'-C1'-N9-C4
39	BL	501	GTP	C5'-O5'-PA-O2A
39	CC	501	GTP	PB-O3B-PG-O3G
39	CE	501	GTP	PB-O3B-PG-O2G
39	CF	501	GTP	C5'-O5'-PA-O3A
39	CF	501	GTP	C5'-O5'-PA-O2A
39	CI	501	GTP	PB-O3B-PG-O3G
39	CK	501	GTP	PB-O3B-PG-O2G
39	DC	501	GTP	O4'-C4'-C5'-O5'
39	DF	501	GTP	C5'-O5'-PA-O3A
39	DF	501	GTP	C5'-O5'-PA-O1A
39	DF	501	GTP	C5'-O5'-PA-O2A
39	DH	501	GTP	C5'-O5'-PA-O3A
39	DH	501	GTP	C5'-O5'-PA-O2A
39	DI	501	GTP	PB-O3B-PG-O2G
39	EC	501	GTP	O4'-C4'-C5'-O5'
39	ED	501	GTP	C5'-O5'-PA-O2A
39	EF	501	GTP	O4'-C1'-N9-C4
39	EG	501	GTP	PB-O3B-PG-O2G
39	EG	501	GTP	O4'-C4'-C5'-O5'
39	EH	501	GTP	C5'-O5'-PA-O3A
39	EH	501	GTP	C5'-O5'-PA-O2A
39	FB	501	GTP	C5'-O5'-PA-O3A
39	FB	501	GTP	C5'-O5'-PA-O2A
39	FG	501	GTP	O4'-C4'-C5'-O5'
39	FL	501	GTP	O4'-C1'-N9-C4
39	GD	501	GTP	C5'-O5'-PA-O3A
39	GD	501	GTP	C5'-O5'-PA-O1A
39	GD	501	GTP	C5'-O5'-PA-O2A
39	HB	501	GTP	C5'-O5'-PA-O3A
39	HB	501	GTP	C5'-O5'-PA-O2A
39	HD	501	GTP	C5'-O5'-PA-O2A
39	HE	501	GTP	O4'-C4'-C5'-O5'
39	HG	501	GTP	O4'-C4'-C5'-O5'
39	HH	501	GTP	C5'-O5'-PA-O2A
39	HJ	501	GTP	C5'-O5'-PA-O2A
39	IC	501	GTP	PB-O3B-PG-O2G
39	IF	501	GTP	C5'-O5'-PA-O2A
39	IG	501	GTP	O4'-C4'-C5'-O5'
39	IH	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
39	IH	501	GTP	C5'-O5'-PA-O1A
39	IH	501	GTP	C5'-O5'-PA-O2A
39	II	501	GTP	O4'-C4'-C5'-O5'
39	IJ	501	GTP	C5'-O5'-PA-O3A
39	IJ	501	GTP	C5'-O5'-PA-O1A
39	IJ	501	GTP	C5'-O5'-PA-O2A
39	IK	501	GTP	PB-O3B-PG-O2G
39	JB	501	GTP	PB-O3B-PG-O2G
39	JD	501	GTP	C5'-O5'-PA-O3A
39	JD	501	GTP	C5'-O5'-PA-O1A
39	JD	501	GTP	C5'-O5'-PA-O2A
39	JG	501	GTP	PB-O3B-PG-O2G
39	JK	501	GTP	PB-O3B-PG-O2G
39	KB	501	GTP	C5'-O5'-PA-O2A
39	KH	501	GTP	C5'-O5'-PA-O3A
39	KH	501	GTP	C5'-O5'-PA-O2A
39	KJ	501	GTP	C5'-O5'-PA-O2A
39	KL	501	GTP	C5'-O5'-PA-O2A
39	LI	501	GTP	O4'-C4'-C5'-O5'
39	LL	501	GTP	C5'-O5'-PA-O2A
39	MD	501	GTP	C5'-O5'-PA-O2A
39	MF	501	GTP	C5'-O5'-PA-O3A
39	MF	501	GTP	C5'-O5'-PA-O1A
39	MF	501	GTP	C5'-O5'-PA-O2A
39	MG	501	GTP	PB-O3B-PG-O2G
39	MI	501	GTP	PB-O3B-PG-O2G
39	MI	501	GTP	O4'-C4'-C5'-O5'
39	MJ	501	GTP	C5'-O5'-PA-O2A
39	NA	501	GTP	PB-O3B-PG-O2G
39	NB	501	GTP	C5'-O5'-PA-O2A
39	NH	501	GTP	C5'-O5'-PA-O2A
39	NI	501	GTP	PB-O3B-PG-O2G
39	OA	501	GTP	PB-O3B-PG-O2G
39	OB	501	GTP	C5'-O5'-PA-O2A
39	OD	501	GTP	C5'-O5'-PA-O2A
39	OE	501	GTP	PB-O3B-PG-O2G
39	OF	501	GTP	C5'-O5'-PA-O2A
39	PA	501	GTP	PB-O3B-PG-O2G
39	PB	501	GTP	C5'-O5'-PA-O2A
39	QC	501	GTP	PB-O3B-PG-O2G
39	QD	501	GTP	PB-O3B-PG-O2G
39	RC	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
39	RD	501	GTP	C5'-O5'-PA-O2A
39	RE	501	GTP	PB-O3B-PG-O2G
39	RI	501	GTP	O4'-C4'-C5'-O5'
39	RJ	501	GTP	PB-O3B-PG-O2G
39	RL	501	GTP	C5'-O5'-PA-O2A
39	RM	501	GTP	PB-O3B-PG-O2G
39	SH	501	GTP	C5'-O5'-PA-O2A
39	SL	501	GTP	C5'-O5'-PA-O2A
39	SM	501	GTP	PB-O3B-PG-O2G
39	SM	501	GTP	O4'-C4'-C5'-O5'
39	TB	501	GTP	C5'-O5'-PA-O2A
39	TG	501	GTP	PB-O3B-PG-O2G
39	TH	501	GTP	C5'-O5'-PA-O2A
39	TL	501	GTP	O4'-C1'-N9-C8
39	TL	501	GTP	O4'-C1'-N9-C4
39	TN	501	GTP	C5'-O5'-PA-O2A
39	UB	501	GTP	C5'-O5'-PA-O3A
39	UB	501	GTP	C5'-O5'-PA-O2A
39	UD	501	GTP	C5'-O5'-PA-O3A
39	UD	501	GTP	C5'-O5'-PA-O2A
39	UH	501	GTP	C5'-O5'-PA-O2A
39	UJ	501	GTP	C5'-O5'-PA-O2A
39	VD	501	GTP	C5'-O5'-PA-O2A
39	VG	501	GTP	PB-O3B-PG-O2G
39	VJ	501	GTP	C5'-O5'-PA-O3A
39	VJ	501	GTP	C5'-O5'-PA-O2A
39	VK	501	GTP	PB-O3B-PG-O2G
39	VL	501	GTP	C5'-O5'-PA-O2A
39	WC	501	GTP	PB-O3B-PG-O2G
39	WF	501	GTP	C5'-O5'-PA-O2A
39	WH	501	GTP	C5'-O5'-PA-O2A
39	WK	501	GTP	O4'-C1'-N9-C8
39	WK	501	GTP	O4'-C1'-N9-C4
39	WL	501	GTP	C5'-O5'-PA-O3A
39	WL	501	GTP	C5'-O5'-PA-O1A
39	WL	501	GTP	C5'-O5'-PA-O2A
39	AG	501	GTP	O4'-C4'-C5'-O5'
39	AG	501	GTP	C3'-C4'-C5'-O5'
39	AI	501	GTP	O4'-C4'-C5'-O5'
39	AK	501	GTP	C3'-C4'-C5'-O5'
39	AM	501	GTP	O4'-C4'-C5'-O5'
39	BG	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
39	BI	501	GTP	O4'-C4'-C5'-O5'
39	CF	501	GTP	C3'-C4'-C5'-O5'
39	CK	501	GTP	O4'-C4'-C5'-O5'
39	CK	501	GTP	C3'-C4'-C5'-O5'
39	DC	501	GTP	C3'-C4'-C5'-O5'
39	DG	501	GTP	O4'-C4'-C5'-O5'
39	DI	501	GTP	O4'-C4'-C5'-O5'
39	DI	501	GTP	C3'-C4'-C5'-O5'
39	DK	501	GTP	O4'-C4'-C5'-O5'
39	DK	501	GTP	C3'-C4'-C5'-O5'
39	EC	501	GTP	C3'-C4'-C5'-O5'
39	EG	501	GTP	C3'-C4'-C5'-O5'
39	EI	501	GTP	O4'-C4'-C5'-O5'
39	EI	501	GTP	C3'-C4'-C5'-O5'
39	FA	501	GTP	O4'-C4'-C5'-O5'
39	FG	501	GTP	C3'-C4'-C5'-O5'
39	GC	501	GTP	O4'-C4'-C5'-O5'
39	GC	501	GTP	C3'-C4'-C5'-O5'
39	GE	501	GTP	O4'-C4'-C5'-O5'
39	GG	501	GTP	O4'-C4'-C5'-O5'
39	GK	501	GTP	O4'-C4'-C5'-O5'
39	HC	501	GTP	O4'-C4'-C5'-O5'
39	HC	501	GTP	C3'-C4'-C5'-O5'
39	HE	501	GTP	C3'-C4'-C5'-O5'
39	HG	501	GTP	C3'-C4'-C5'-O5'
39	HI	501	GTP	O4'-C4'-C5'-O5'
39	HK	501	GTP	O4'-C4'-C5'-O5'
39	HK	501	GTP	C3'-C4'-C5'-O5'
39	IC	501	GTP	O4'-C4'-C5'-O5'
39	IC	501	GTP	C3'-C4'-C5'-O5'
39	IE	501	GTP	O4'-C4'-C5'-O5'
39	IE	501	GTP	C3'-C4'-C5'-O5'
39	IG	501	GTP	C3'-C4'-C5'-O5'
39	II	501	GTP	C3'-C4'-C5'-O5'
39	IM	501	GTP	O4'-C4'-C5'-O5'
39	JE	501	GTP	O4'-C4'-C5'-O5'
39	KG	501	GTP	O4'-C4'-C5'-O5'
39	KG	501	GTP	C3'-C4'-C5'-O5'
39	LI	501	GTP	C3'-C4'-C5'-O5'
39	MC	501	GTP	O4'-C4'-C5'-O5'
39	MC	501	GTP	C3'-C4'-C5'-O5'
39	MI	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
39	MM	501	GTP	O4'-C4'-C5'-O5'
39	PC	501	GTP	O4'-C4'-C5'-O5'
39	PM	501	GTP	O4'-C4'-C5'-O5'
39	QC	501	GTP	O4'-C4'-C5'-O5'
39	RC	501	GTP	C3'-C4'-C5'-O5'
39	RI	501	GTP	C3'-C4'-C5'-O5'
39	SG	501	GTP	O4'-C4'-C5'-O5'
39	SM	501	GTP	C3'-C4'-C5'-O5'
39	UI	501	GTP	O4'-C4'-C5'-O5'
39	VI	501	GTP	O4'-C4'-C5'-O5'
39	VI	501	GTP	C3'-C4'-C5'-O5'
39	WG	501	GTP	O4'-C4'-C5'-O5'
39	WI	501	GTP	O4'-C4'-C5'-O5'
39	FL	501	GTP	O4'-C1'-N9-C8
39	VA	501	GTP	O4'-C1'-N9-C8
39	AC	501	GTP	O4'-C4'-C5'-O5'
39	AE	501	GTP	O4'-C4'-C5'-O5'
39	AF	501	GTP	C3'-C4'-C5'-O5'
39	AI	501	GTP	C3'-C4'-C5'-O5'
39	AM	501	GTP	C3'-C4'-C5'-O5'
39	BC	501	GTP	O4'-C4'-C5'-O5'
39	BE	501	GTP	O4'-C4'-C5'-O5'
39	BG	501	GTP	C3'-C4'-C5'-O5'
39	BK	501	GTP	O4'-C4'-C5'-O5'
39	BL	501	GTP	C3'-C4'-C5'-O5'
39	BM	501	GTP	O4'-C4'-C5'-O5'
39	CE	501	GTP	O4'-C4'-C5'-O5'
39	CF	501	GTP	O4'-C4'-C5'-O5'
39	CG	501	GTP	O4'-C4'-C5'-O5'
39	CM	501	GTP	O4'-C4'-C5'-O5'
39	DE	501	GTP	O4'-C4'-C5'-O5'
39	DG	501	GTP	C3'-C4'-C5'-O5'
39	EA	501	GTP	O4'-C4'-C5'-O5'
39	EE	501	GTP	O4'-C4'-C5'-O5'
39	EK	501	GTP	O4'-C4'-C5'-O5'
39	FA	501	GTP	C3'-C4'-C5'-O5'
39	FC	501	GTP	O4'-C4'-C5'-O5'
39	FE	501	GTP	O4'-C4'-C5'-O5'
39	FI	501	GTP	O4'-C4'-C5'-O5'
39	FK	501	GTP	O4'-C4'-C5'-O5'
39	FK	501	GTP	C3'-C4'-C5'-O5'
39	GE	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
39	GG	501	GTP	C3'-C4'-C5'-O5'
39	GI	501	GTP	O4'-C4'-C5'-O5'
39	GK	501	GTP	C3'-C4'-C5'-O5'
39	HA	501	GTP	O4'-C4'-C5'-O5'
39	HD	501	GTP	O4'-C4'-C5'-O5'
39	HD	501	GTP	C3'-C4'-C5'-O5'
39	HF	501	GTP	C3'-C4'-C5'-O5'
39	IK	501	GTP	O4'-C4'-C5'-O5'
39	IM	501	GTP	C3'-C4'-C5'-O5'
39	JC	501	GTP	O4'-C4'-C5'-O5'
39	JE	501	GTP	C3'-C4'-C5'-O5'
39	JG	501	GTP	O4'-C4'-C5'-O5'
39	JI	501	GTP	O4'-C4'-C5'-O5'
39	KE	501	GTP	O4'-C4'-C5'-O5'
39	LA	501	GTP	O4'-C4'-C5'-O5'
39	LC	501	GTP	O4'-C4'-C5'-O5'
39	LG	501	GTP	O4'-C4'-C5'-O5'
39	MB	501	GTP	C3'-C4'-C5'-O5'
39	MD	501	GTP	O4'-C4'-C5'-O5'
39	MD	501	GTP	C3'-C4'-C5'-O5'
39	MF	501	GTP	O4'-C4'-C5'-O5'
39	MF	501	GTP	C3'-C4'-C5'-O5'
39	MG	501	GTP	O4'-C4'-C5'-O5'
39	NC	501	GTP	O4'-C4'-C5'-O5'
39	NE	501	GTP	O4'-C4'-C5'-O5'
39	NG	501	GTP	O4'-C4'-C5'-O5'
39	OE	501	GTP	O4'-C4'-C5'-O5'
39	OF	501	GTP	O4'-C4'-C5'-O5'
39	OF	501	GTP	C3'-C4'-C5'-O5'
39	OI	501	GTP	O4'-C4'-C5'-O5'
39	OK	501	GTP	O4'-C4'-C5'-O5'
39	PA	501	GTP	O4'-C4'-C5'-O5'
39	PB	501	GTP	C3'-C4'-C5'-O5'
39	PC	501	GTP	C3'-C4'-C5'-O5'
39	PE	501	GTP	O4'-C4'-C5'-O5'
39	PG	501	GTP	O4'-C4'-C5'-O5'
39	PI	501	GTP	O4'-C4'-C5'-O5'
39	QD	502	GTP	O4'-C4'-C5'-O5'
39	QG	501	GTP	O4'-C4'-C5'-O5'
39	QI	501	GTP	O4'-C4'-C5'-O5'
39	QK	501	GTP	O4'-C4'-C5'-O5'
39	RK	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
39	RM	501	GTP	O4'-C4'-C5'-O5'
39	SC	501	GTP	O4'-C4'-C5'-O5'
39	SE	501	GTP	O4'-C4'-C5'-O5'
39	SG	501	GTP	C3'-C4'-C5'-O5'
39	SI	501	GTP	O4'-C4'-C5'-O5'
39	TC	501	GTP	O4'-C4'-C5'-O5'
39	TG	501	GTP	O4'-C4'-C5'-O5'
39	TI	501	GTP	O4'-C4'-C5'-O5'
39	TM	501	GTP	O4'-C4'-C5'-O5'
39	UA	501	GTP	O4'-C4'-C5'-O5'
39	UC	501	GTP	O4'-C4'-C5'-O5'
39	UE	501	GTP	O4'-C4'-C5'-O5'
39	UG	501	GTP	O4'-C4'-C5'-O5'
39	UK	501	GTP	O4'-C4'-C5'-O5'
39	VC	501	GTP	O4'-C4'-C5'-O5'
39	VE	501	GTP	O4'-C4'-C5'-O5'
39	VJ	501	GTP	C3'-C4'-C5'-O5'
39	VK	501	GTP	O4'-C4'-C5'-O5'
39	WC	501	GTP	O4'-C4'-C5'-O5'
39	WG	501	GTP	C3'-C4'-C5'-O5'
39	WI	501	GTP	C3'-C4'-C5'-O5'
39	WL	501	GTP	C3'-C4'-C5'-O5'
39	EF	501	GTP	O4'-C1'-N9-C8
39	CI	501	GTP	O4'-C1'-N9-C4
39	FK	501	GTP	O4'-C1'-N9-C4
39	GB	501	GTP	O4'-C1'-N9-C4
39	MD	502	GTP	O4'-C1'-N9-C4
39	RE	501	GTP	O4'-C1'-N9-C4
39	UF	501	GTP	O4'-C1'-N9-C4
39	VA	501	GTP	O4'-C1'-N9-C4
39	WA	501	GTP	O4'-C1'-N9-C4
39	WE	501	GTP	O4'-C1'-N9-C4
39	AC	501	GTP	C3'-C4'-C5'-O5'
39	AE	501	GTP	C3'-C4'-C5'-O5'
39	AF	501	GTP	O4'-C4'-C5'-O5'
39	BC	501	GTP	C3'-C4'-C5'-O5'
39	BE	501	GTP	C3'-C4'-C5'-O5'
39	BI	501	GTP	C3'-C4'-C5'-O5'
39	BK	501	GTP	C3'-C4'-C5'-O5'
39	BM	501	GTP	C3'-C4'-C5'-O5'
39	CE	501	GTP	C3'-C4'-C5'-O5'
39	CG	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
39	CI	501	GTP	C3'-C4'-C5'-O5'
39	CM	501	GTP	C3'-C4'-C5'-O5'
39	DE	501	GTP	C3'-C4'-C5'-O5'
39	EA	501	GTP	C3'-C4'-C5'-O5'
39	EE	501	GTP	C3'-C4'-C5'-O5'
39	EK	501	GTP	C3'-C4'-C5'-O5'
39	FE	501	GTP	C3'-C4'-C5'-O5'
39	FI	501	GTP	C3'-C4'-C5'-O5'
39	GI	501	GTP	C3'-C4'-C5'-O5'
39	HA	501	GTP	C3'-C4'-C5'-O5'
39	HF	501	GTP	O4'-C4'-C5'-O5'
39	HI	501	GTP	C3'-C4'-C5'-O5'
39	IA	501	GTP	C3'-C4'-C5'-O5'
39	IK	501	GTP	C3'-C4'-C5'-O5'
39	JC	501	GTP	C3'-C4'-C5'-O5'
39	JI	501	GTP	C3'-C4'-C5'-O5'
39	KE	501	GTP	C3'-C4'-C5'-O5'
39	LA	501	GTP	C3'-C4'-C5'-O5'
39	LC	501	GTP	C3'-C4'-C5'-O5'
39	LG	501	GTP	C3'-C4'-C5'-O5'
39	MD	502	GTP	C3'-C4'-C5'-O5'
39	MM	501	GTP	C3'-C4'-C5'-O5'
39	NC	501	GTP	C3'-C4'-C5'-O5'
39	NE	501	GTP	C3'-C4'-C5'-O5'
39	NG	501	GTP	C3'-C4'-C5'-O5'
39	NI	501	GTP	O4'-C4'-C5'-O5'
39	NI	501	GTP	C3'-C4'-C5'-O5'
39	NK	501	GTP	O4'-C4'-C5'-O5'
39	NK	501	GTP	C3'-C4'-C5'-O5'
39	OA	501	GTP	O4'-C4'-C5'-O5'
39	OE	501	GTP	C3'-C4'-C5'-O5'
39	OG	501	GTP	C3'-C4'-C5'-O5'
39	PA	501	GTP	C3'-C4'-C5'-O5'
39	PE	501	GTP	C3'-C4'-C5'-O5'
39	PG	501	GTP	C3'-C4'-C5'-O5'
39	PK	501	GTP	C3'-C4'-C5'-O5'
39	PM	501	GTP	C3'-C4'-C5'-O5'
39	QC	501	GTP	C3'-C4'-C5'-O5'
39	QD	502	GTP	C3'-C4'-C5'-O5'
39	QI	501	GTP	C3'-C4'-C5'-O5'
39	QK	501	GTP	C3'-C4'-C5'-O5'
39	RM	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
39	SC	501	GTP	C3'-C4'-C5'-O5'
39	SE	501	GTP	C3'-C4'-C5'-O5'
39	SI	501	GTP	C3'-C4'-C5'-O5'
39	SK	501	GTP	O4'-C4'-C5'-O5'
39	SK	501	GTP	C3'-C4'-C5'-O5'
39	TC	501	GTP	C3'-C4'-C5'-O5'
39	TG	501	GTP	C3'-C4'-C5'-O5'
39	TI	501	GTP	C3'-C4'-C5'-O5'
39	TM	501	GTP	C3'-C4'-C5'-O5'
39	UA	501	GTP	C3'-C4'-C5'-O5'
39	UC	501	GTP	C3'-C4'-C5'-O5'
39	UE	501	GTP	C3'-C4'-C5'-O5'
39	UG	501	GTP	C3'-C4'-C5'-O5'
39	UI	501	GTP	C3'-C4'-C5'-O5'
39	UK	501	GTP	C3'-C4'-C5'-O5'
39	VC	501	GTP	C3'-C4'-C5'-O5'
39	VG	501	GTP	C3'-C4'-C5'-O5'
39	VJ	501	GTP	O4'-C4'-C5'-O5'
39	VK	501	GTP	C3'-C4'-C5'-O5'
39	WC	501	GTP	C3'-C4'-C5'-O5'
39	WE	501	GTP	O4'-C4'-C5'-O5'
39	WE	501	GTP	C3'-C4'-C5'-O5'
39	MD	502	GTP	O4'-C1'-N9-C8
39	UF	501	GTP	O4'-C1'-N9-C8
39	BH	501	GTP	O4'-C1'-N9-C4
39	BK	501	GTP	O4'-C1'-N9-C4
39	CC	501	GTP	O4'-C1'-N9-C4
39	CH	501	GTP	O4'-C1'-N9-C4
39	CJ	501	GTP	O4'-C1'-N9-C4
39	CM	501	GTP	O4'-C1'-N9-C4
39	EE	501	GTP	O4'-C1'-N9-C4
39	EJ	501	GTP	O4'-C1'-N9-C4
39	FE	501	GTP	O4'-C1'-N9-C4
39	FJ	501	GTP	O4'-C1'-N9-C4
39	GA	501	GTP	O4'-C1'-N9-C4
39	GF	501	GTP	O4'-C1'-N9-C4
39	GL	501	GTP	O4'-C1'-N9-C4
39	IB	501	GTP	O4'-C1'-N9-C4
39	IH	501	GTP	O4'-C1'-N9-C4
39	IK	501	GTP	O4'-C1'-N9-C4
39	IL	501	GTP	O4'-C1'-N9-C4
39	JD	501	GTP	O4'-C1'-N9-C4

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Mol	Chain	Res	Type	Atoms
39	JK	501	GTP	O4'-C1'-N9-C4
39	KA	501	GTP	O4'-C1'-N9-C4
39	KC	501	GTP	O4'-C1'-N9-C4
39	KH	501	GTP	O4'-C1'-N9-C4
39	KI	501	GTP	O4'-C1'-N9-C4
39	KK	501	GTP	O4'-C1'-N9-C4
39	LA	501	GTP	O4'-C1'-N9-C4
39	LB	501	GTP	O4'-C1'-N9-C4
39	LH	501	GTP	O4'-C1'-N9-C4
39	NA	501	GTP	O4'-C1'-N9-C4
39	NF	501	GTP	O4'-C1'-N9-C4
39	NI	501	GTP	O4'-C1'-N9-C4
39	NJ	501	GTP	O4'-C1'-N9-C4
39	NK	501	GTP	O4'-C1'-N9-C4
39	OC	501	GTP	O4'-C1'-N9-C4
39	OI	501	GTP	O4'-C1'-N9-C4
39	PA	501	GTP	O4'-C1'-N9-C4
39	PH	501	GTP	O4'-C1'-N9-C4
39	QF	501	GTP	O4'-C1'-N9-C4
39	RK	501	GTP	O4'-C1'-N9-C4
39	SB	501	GTP	O4'-C1'-N9-C4
39	TD	501	GTP	O4'-C1'-N9-C4
39	UB	501	GTP	O4'-C1'-N9-C4
39	UH	501	GTP	O4'-C1'-N9-C4
39	UL	501	GTP	O4'-C1'-N9-C4
39	VB	501	GTP	O4'-C1'-N9-C4
39	VG	501	GTP	O4'-C1'-N9-C4
39	VH	501	GTP	O4'-C1'-N9-C4
39	WG	501	GTP	O4'-C1'-N9-C4
39	AB	501	GTP	C3'-C4'-C5'-O5'
39	BL	501	GTP	O4'-C4'-C5'-O5'
39	CI	501	GTP	O4'-C4'-C5'-O5'
39	DF	501	GTP	O4'-C4'-C5'-O5'
39	EH	501	GTP	O4'-C4'-C5'-O5'
39	EH	501	GTP	C3'-C4'-C5'-O5'
39	FC	501	GTP	C3'-C4'-C5'-O5'
39	IA	501	GTP	O4'-C4'-C5'-O5'
39	JA	501	GTP	O4'-C4'-C5'-O5'
39	JA	501	GTP	C3'-C4'-C5'-O5'
39	JG	501	GTP	C3'-C4'-C5'-O5'
39	JK	501	GTP	O4'-C4'-C5'-O5'
39	JK	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
39	KA	501	GTP	O4'-C4'-C5'-O5'
39	KI	501	GTP	O4'-C4'-C5'-O5'
39	KI	501	GTP	C3'-C4'-C5'-O5'
39	KL	501	GTP	C3'-C4'-C5'-O5'
39	MB	501	GTP	O4'-C4'-C5'-O5'
39	MD	502	GTP	O4'-C4'-C5'-O5'
39	MG	501	GTP	C3'-C4'-C5'-O5'
39	MJ	501	GTP	O4'-C4'-C5'-O5'
39	MJ	501	GTP	C3'-C4'-C5'-O5'
39	MK	501	GTP	O4'-C4'-C5'-O5'
39	NA	501	GTP	O4'-C4'-C5'-O5'
39	OA	501	GTP	C3'-C4'-C5'-O5'
39	OC	501	GTP	O4'-C4'-C5'-O5'
39	OG	501	GTP	O4'-C4'-C5'-O5'
39	OI	501	GTP	C3'-C4'-C5'-O5'
39	OK	501	GTP	C3'-C4'-C5'-O5'
39	PB	501	GTP	O4'-C4'-C5'-O5'
39	PI	501	GTP	C3'-C4'-C5'-O5'
39	PK	501	GTP	O4'-C4'-C5'-O5'
39	QG	501	GTP	C3'-C4'-C5'-O5'
39	QL	502	GTP	O4'-C4'-C5'-O5'
39	QL	502	GTP	C3'-C4'-C5'-O5'
39	RG	501	GTP	O4'-C4'-C5'-O5'
39	RK	501	GTP	C3'-C4'-C5'-O5'
39	TE	501	GTP	O4'-C4'-C5'-O5'
39	TE	501	GTP	C3'-C4'-C5'-O5'
39	TK	501	GTP	C3'-C4'-C5'-O5'
39	VE	501	GTP	C3'-C4'-C5'-O5'
39	VG	501	GTP	O4'-C4'-C5'-O5'
39	WA	501	GTP	C3'-C4'-C5'-O5'
39	WL	501	GTP	O4'-C4'-C5'-O5'
39	CI	501	GTP	O4'-C1'-N9-C8
39	FK	501	GTP	O4'-C1'-N9-C8
39	KA	501	GTP	O4'-C1'-N9-C8
39	NK	501	GTP	O4'-C1'-N9-C8
39	RE	501	GTP	O4'-C1'-N9-C8
39	WA	501	GTP	O4'-C1'-N9-C8
39	WE	501	GTP	O4'-C1'-N9-C8
39	CB	501	GTP	O4'-C1'-N9-C4
39	DA	501	GTP	O4'-C1'-N9-C4
39	DB	501	GTP	O4'-C1'-N9-C4
39	DJ	501	GTP	O4'-C1'-N9-C4

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Mol	Chain	Res	Type	Atoms
39	DL	501	GTP	O4'-C1'-N9-C4
39	EH	501	GTP	O4'-C1'-N9-C4
39	FD	501	GTP	O4'-C1'-N9-C4
39	GD	501	GTP	O4'-C1'-N9-C4
39	GI	501	GTP	O4'-C1'-N9-C4
39	HB	501	GTP	O4'-C1'-N9-C4
39	IA	501	GTP	O4'-C1'-N9-C4
39	JA	501	GTP	O4'-C1'-N9-C4
39	JC	501	GTP	O4'-C1'-N9-C4
39	KG	501	GTP	O4'-C1'-N9-C4
39	MG	501	GTP	O4'-C1'-N9-C4
39	ND	501	GTP	O4'-C1'-N9-C4
39	NL	501	GTP	O4'-C1'-N9-C4
39	OF	501	GTP	O4'-C1'-N9-C4
39	OK	501	GTP	O4'-C1'-N9-C4
39	PK	501	GTP	O4'-C1'-N9-C4
39	PL	501	GTP	O4'-C1'-N9-C4
39	QG	501	GTP	O4'-C1'-N9-C4
39	SJ	501	GTP	O4'-C1'-N9-C4
39	SL	501	GTP	O4'-C1'-N9-C4
39	TE	501	GTP	O4'-C1'-N9-C4
39	TK	501	GTP	O4'-C1'-N9-C4
39	VD	501	GTP	O4'-C1'-N9-C4
39	WJ	501	GTP	O4'-C1'-N9-C4
39	AB	501	GTP	O4'-C4'-C5'-O5'
39	AH	501	GTP	O4'-C4'-C5'-O5'
39	AJ	501	GTP	O4'-C4'-C5'-O5'
39	BF	501	GTP	O4'-C4'-C5'-O5'
39	CC	501	GTP	C3'-C4'-C5'-O5'
39	CD	501	GTP	O4'-C4'-C5'-O5'
39	EB	501	GTP	O4'-C4'-C5'-O5'
39	ED	501	GTP	O4'-C4'-C5'-O5'
39	GD	501	GTP	O4'-C4'-C5'-O5'
39	HH	501	GTP	O4'-C4'-C5'-O5'
39	HJ	501	GTP	O4'-C4'-C5'-O5'
39	IF	501	GTP	O4'-C4'-C5'-O5'
39	IJ	501	GTP	O4'-C4'-C5'-O5'
39	JH	501	GTP	O4'-C4'-C5'-O5'
39	JJ	501	GTP	O4'-C4'-C5'-O5'
39	KA	501	GTP	C3'-C4'-C5'-O5'
39	KD	501	GTP	O4'-C4'-C5'-O5'
39	KJ	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
39	KL	501	GTP	O4'-C4'-C5'-O5'
39	LF	501	GTP	O4'-C4'-C5'-O5'
39	LF	501	GTP	C3'-C4'-C5'-O5'
39	LJ	501	GTP	O4'-C4'-C5'-O5'
39	LL	501	GTP	O4'-C4'-C5'-O5'
39	MK	501	GTP	C3'-C4'-C5'-O5'
39	NA	501	GTP	C3'-C4'-C5'-O5'
39	NB	501	GTP	O4'-C4'-C5'-O5'
39	NH	501	GTP	O4'-C4'-C5'-O5'
39	OB	501	GTP	O4'-C4'-C5'-O5'
39	OD	501	GTP	O4'-C4'-C5'-O5'
39	OL	501	GTP	O4'-C4'-C5'-O5'
39	QD	501	GTP	O4'-C4'-C5'-O5'
39	RD	501	GTP	O4'-C4'-C5'-O5'
39	RF	501	GTP	O4'-C4'-C5'-O5'
39	RG	501	GTP	C3'-C4'-C5'-O5'
39	SD	501	GTP	O4'-C4'-C5'-O5'
39	SL	501	GTP	O4'-C4'-C5'-O5'
39	TK	501	GTP	O4'-C4'-C5'-O5'
39	TN	501	GTP	O4'-C4'-C5'-O5'
39	UB	501	GTP	O4'-C4'-C5'-O5'
39	UD	501	GTP	O4'-C4'-C5'-O5'
39	UJ	501	GTP	O4'-C4'-C5'-O5'
39	VA	501	GTP	O4'-C4'-C5'-O5'
39	VD	501	GTP	O4'-C4'-C5'-O5'
39	VL	501	GTP	O4'-C4'-C5'-O5'
39	WA	501	GTP	O4'-C4'-C5'-O5'
39	WF	501	GTP	O4'-C4'-C5'-O5'
39	WH	501	GTP	O4'-C4'-C5'-O5'
39	JK	501	GTP	O4'-C1'-N9-C8
39	OI	501	GTP	O4'-C1'-N9-C8
39	PA	501	GTP	O4'-C1'-N9-C8
39	RK	501	GTP	O4'-C1'-N9-C8
39	VB	501	GTP	O4'-C1'-N9-C8
39	VG	501	GTP	O4'-C1'-N9-C8
39	AB	501	GTP	O4'-C1'-N9-C4
39	AC	501	GTP	O4'-C1'-N9-C4
39	AE	501	GTP	O4'-C1'-N9-C4
39	AG	501	GTP	O4'-C1'-N9-C4
39	AL	501	GTP	O4'-C1'-N9-C4
39	BD	501	GTP	O4'-C1'-N9-C4
39	BE	501	GTP	O4'-C1'-N9-C4

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Mol	Chain	Res	Type	Atoms
39	BF	501	GTP	O4'-C1'-N9-C4
39	CE	501	GTP	O4'-C1'-N9-C4
39	CF	501	GTP	O4'-C1'-N9-C4
39	CG	501	GTP	O4'-C1'-N9-C4
39	CK	501	GTP	O4'-C1'-N9-C4
39	CL	501	GTP	O4'-C1'-N9-C4
39	DD	501	GTP	O4'-C1'-N9-C4
39	DE	501	GTP	O4'-C1'-N9-C4
39	DF	501	GTP	O4'-C1'-N9-C4
39	DH	501	GTP	O4'-C1'-N9-C4
39	DK	501	GTP	O4'-C1'-N9-C4
39	EA	501	GTP	O4'-C1'-N9-C4
39	EB	501	GTP	O4'-C1'-N9-C4
39	ED	501	GTP	O4'-C1'-N9-C4
39	EI	501	GTP	O4'-C1'-N9-C4
39	EK	501	GTP	O4'-C1'-N9-C4
39	FB	501	GTP	O4'-C1'-N9-C4
39	FF	501	GTP	O4'-C1'-N9-C4
39	FH	501	GTP	O4'-C1'-N9-C4
39	GE	501	GTP	O4'-C1'-N9-C4
39	GH	501	GTP	O4'-C1'-N9-C4
39	GJ	501	GTP	O4'-C1'-N9-C4
39	HD	501	GTP	O4'-C1'-N9-C4
39	HJ	501	GTP	O4'-C1'-N9-C4
39	HL	501	GTP	O4'-C1'-N9-C4
39	ID	501	GTP	O4'-C1'-N9-C4
39	IE	501	GTP	O4'-C1'-N9-C4
39	IJ	501	GTP	O4'-C1'-N9-C4
39	JB	501	GTP	O4'-C1'-N9-C4
39	JF	501	GTP	O4'-C1'-N9-C4
39	JG	501	GTP	O4'-C1'-N9-C4
39	JH	501	GTP	O4'-C1'-N9-C4
39	JI	501	GTP	O4'-C1'-N9-C4
39	JL	501	GTP	O4'-C1'-N9-C4
39	KE	501	GTP	O4'-C1'-N9-C4
39	LD	501	GTP	O4'-C1'-N9-C4
39	LL	501	GTP	O4'-C1'-N9-C4
39	MH	501	GTP	O4'-C1'-N9-C4
39	NB	501	GTP	O4'-C1'-N9-C4
39	NH	501	GTP	O4'-C1'-N9-C4
39	OA	501	GTP	O4'-C1'-N9-C4
39	OB	501	GTP	O4'-C1'-N9-C4

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Mol	Chain	Res	Type	Atoms
39	OH	501	GTP	O4'-C1'-N9-C4
39	OJ	501	GTP	O4'-C1'-N9-C4
39	PC	501	GTP	O4'-C1'-N9-C4
39	PE	501	GTP	O4'-C1'-N9-C4
39	PG	501	GTP	O4'-C1'-N9-C4
39	PI	501	GTP	O4'-C1'-N9-C4
39	QD	502	GTP	O4'-C1'-N9-C4
39	QH	501	GTP	O4'-C1'-N9-C4
39	QJ	501	GTP	O4'-C1'-N9-C4
39	QL	501	GTP	O4'-C1'-N9-C4
39	QL	502	GTP	O4'-C1'-N9-C4
39	RD	501	GTP	O4'-C1'-N9-C4
39	RJ	501	GTP	O4'-C1'-N9-C4
39	RL	501	GTP	O4'-C1'-N9-C4
39	RM	501	GTP	O4'-C1'-N9-C4
39	SE	501	GTP	O4'-C1'-N9-C4
39	SG	501	GTP	O4'-C1'-N9-C4
39	SI	501	GTP	O4'-C1'-N9-C4
39	SK	501	GTP	O4'-C1'-N9-C4
39	TC	501	GTP	O4'-C1'-N9-C4
39	TG	501	GTP	O4'-C1'-N9-C4
39	TH	501	GTP	O4'-C1'-N9-C4
39	TJ	501	GTP	O4'-C1'-N9-C4
39	TM	501	GTP	O4'-C1'-N9-C4
39	UA	501	GTP	O4'-C1'-N9-C4
39	UD	501	GTP	O4'-C1'-N9-C4
39	UK	501	GTP	O4'-C1'-N9-C4
39	VC	501	GTP	O4'-C1'-N9-C4
39	VE	501	GTP	O4'-C1'-N9-C4
39	VF	501	GTP	O4'-C1'-N9-C4
39	VI	501	GTP	O4'-C1'-N9-C4
39	VK	501	GTP	O4'-C1'-N9-C4
39	VL	501	GTP	O4'-C1'-N9-C4
39	WB	501	GTP	O4'-C1'-N9-C4
39	WC	501	GTP	O4'-C1'-N9-C4
39	WD	501	GTP	O4'-C1'-N9-C4
39	WH	501	GTP	O4'-C1'-N9-C4
39	AJ	501	GTP	C3'-C4'-C5'-O5'
39	AL	501	GTP	O4'-C4'-C5'-O5'
39	CC	501	GTP	O4'-C4'-C5'-O5'
39	CJ	501	GTP	O4'-C4'-C5'-O5'
39	DF	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
39	DH	501	GTP	O4'-C4'-C5'-O5'
39	EB	501	GTP	C3'-C4'-C5'-O5'
39	ED	501	GTP	C3'-C4'-C5'-O5'
39	EJ	501	GTP	O4'-C4'-C5'-O5'
39	EL	501	GTP	O4'-C4'-C5'-O5'
39	FF	501	GTP	O4'-C4'-C5'-O5'
39	GA	501	GTP	O4'-C4'-C5'-O5'
39	HH	501	GTP	C3'-C4'-C5'-O5'
39	JH	501	GTP	C3'-C4'-C5'-O5'
39	JL	501	GTP	O4'-C4'-C5'-O5'
39	KC	501	GTP	O4'-C4'-C5'-O5'
39	KK	501	GTP	O4'-C4'-C5'-O5'
39	LE	501	GTP	O4'-C4'-C5'-O5'
39	OC	501	GTP	C3'-C4'-C5'-O5'
39	OD	501	GTP	C3'-C4'-C5'-O5'
39	OJ	501	GTP	O4'-C4'-C5'-O5'
39	QF	501	GTP	O4'-C4'-C5'-O5'
39	RJ	501	GTP	O4'-C4'-C5'-O5'
39	SD	501	GTP	C3'-C4'-C5'-O5'
39	SH	501	GTP	O4'-C4'-C5'-O5'
39	SH	501	GTP	C3'-C4'-C5'-O5'
39	TD	501	GTP	O4'-C4'-C5'-O5'
39	VA	501	GTP	C3'-C4'-C5'-O5'
39	VL	501	GTP	C3'-C4'-C5'-O5'
39	WD	501	GTP	O4'-C4'-C5'-O5'
39	BK	501	GTP	O4'-C1'-N9-C8
39	CC	501	GTP	O4'-C1'-N9-C8
39	EE	501	GTP	O4'-C1'-N9-C8
39	GA	501	GTP	O4'-C1'-N9-C8
39	GB	501	GTP	O4'-C1'-N9-C8
39	GF	501	GTP	O4'-C1'-N9-C8
39	IH	501	GTP	O4'-C1'-N9-C8
39	KH	501	GTP	O4'-C1'-N9-C8
39	KI	501	GTP	O4'-C1'-N9-C8
39	NA	501	GTP	O4'-C1'-N9-C8
39	OC	501	GTP	O4'-C1'-N9-C8
39	VH	501	GTP	O4'-C1'-N9-C8
39	BI	501	GTP	O4'-C1'-N9-C4
39	BL	501	GTP	O4'-C1'-N9-C4
39	IG	501	GTP	O4'-C1'-N9-C4
39	LG	501	GTP	O4'-C1'-N9-C4
39	NC	501	GTP	O4'-C1'-N9-C4

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Mol	Chain	Res	Type	Atoms
39	PJ	501	GTP	O4'-C1'-N9-C4
39	QI	501	GTP	O4'-C1'-N9-C4
39	RB	501	GTP	O4'-C1'-N9-C4
39	SH	501	GTP	O4'-C1'-N9-C4
39	UJ	501	GTP	O4'-C1'-N9-C4
39	AH	501	GTP	C3'-C4'-C5'-O5'
39	GD	501	GTP	C3'-C4'-C5'-O5'
39	HJ	501	GTP	C3'-C4'-C5'-O5'
39	IF	501	GTP	C3'-C4'-C5'-O5'
39	KB	501	GTP	O4'-C4'-C5'-O5'
39	KD	501	GTP	C3'-C4'-C5'-O5'
39	KJ	501	GTP	C3'-C4'-C5'-O5'
39	LL	501	GTP	C3'-C4'-C5'-O5'
39	SL	501	GTP	C3'-C4'-C5'-O5'
39	UD	501	GTP	C3'-C4'-C5'-O5'
39	UJ	501	GTP	C3'-C4'-C5'-O5'
39	HI	501	GTP	PG-O3B-PB-O3A
39	TM	501	GTP	PG-O3B-PB-O3A
39	BC	501	GTP	PA-O3A-PB-O1B
39	FC	501	GTP	PA-O3A-PB-O1B
39	LE	501	GTP	PG-O3B-PB-O1B
39	LK	501	GTP	PG-O3B-PB-O1B
39	QG	501	GTP	PG-O3B-PB-O1B
39	QL	502	GTP	PG-O3B-PB-O1B
39	TE	501	GTP	PG-O3B-PB-O1B
39	WK	501	GTP	PA-O3A-PB-O1B
39	CH	501	GTP	O4'-C1'-N9-C8
39	GL	501	GTP	O4'-C1'-N9-C8
39	AM	501	GTP	O4'-C1'-N9-C4
39	BG	501	GTP	O4'-C1'-N9-C4
39	FI	501	GTP	O4'-C1'-N9-C4
39	CD	501	GTP	C3'-C4'-C5'-O5'
39	GA	501	GTP	C3'-C4'-C5'-O5'
39	GH	501	GTP	O4'-C4'-C5'-O5'
39	GJ	501	GTP	O4'-C4'-C5'-O5'
39	HB	501	GTP	O4'-C4'-C5'-O5'
39	IJ	501	GTP	C3'-C4'-C5'-O5'
39	KC	501	GTP	C3'-C4'-C5'-O5'
39	KF	501	GTP	O4'-C4'-C5'-O5'
39	KK	501	GTP	C3'-C4'-C5'-O5'
39	LE	501	GTP	C3'-C4'-C5'-O5'
39	NF	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
39	NH	501	GTP	C3'-C4'-C5'-O5'
39	QL	501	GTP	O4'-C4'-C5'-O5'
39	RD	501	GTP	C3'-C4'-C5'-O5'
39	RE	501	GTP	O4'-C4'-C5'-O5'
39	TB	501	GTP	O4'-C4'-C5'-O5'
39	UL	501	GTP	O4'-C4'-C5'-O5'
39	WJ	501	GTP	O4'-C4'-C5'-O5'
39	BH	501	GTP	O4'-C1'-N9-C8
39	IB	501	GTP	O4'-C1'-N9-C8
39	LH	501	GTP	O4'-C1'-N9-C8
39	NJ	501	GTP	O4'-C1'-N9-C8
39	AD	501	GTP	O4'-C1'-N9-C4
39	AI	501	GTP	O4'-C1'-N9-C4
39	BC	501	GTP	O4'-C1'-N9-C4
39	CD	501	GTP	O4'-C1'-N9-C4
39	DC	501	GTP	O4'-C1'-N9-C4
39	EL	501	GTP	O4'-C1'-N9-C4
39	HA	501	GTP	O4'-C1'-N9-C4
39	HH	501	GTP	O4'-C1'-N9-C4
39	HI	501	GTP	O4'-C1'-N9-C4
39	JJ	501	GTP	O4'-C1'-N9-C4
39	KL	501	GTP	O4'-C1'-N9-C4
39	MC	501	GTP	O4'-C1'-N9-C4
39	MJ	501	GTP	O4'-C1'-N9-C4
39	NE	501	GTP	O4'-C1'-N9-C4
39	OG	501	GTP	O4'-C1'-N9-C4
39	QB	501	GTP	O4'-C1'-N9-C4
39	QK	501	GTP	O4'-C1'-N9-C4
39	RF	501	GTP	O4'-C1'-N9-C4
39	TB	501	GTP	O4'-C1'-N9-C4
39	TF	501	GTP	O4'-C1'-N9-C4
39	UC	501	GTP	O4'-C1'-N9-C4
39	WL	501	GTP	O4'-C1'-N9-C4
39	AD	501	GTP	PG-O3B-PB-O3A
39	BM	501	GTP	PG-O3B-PB-O3A
39	CM	501	GTP	PG-O3B-PB-O3A
39	EA	501	GTP	PG-O3B-PB-O3A
39	EI	501	GTP	PG-O3B-PB-O3A
39	EL	501	GTP	PG-O3B-PB-O3A
39	FB	501	GTP	PG-O3B-PB-O3A
39	FD	501	GTP	PG-O3B-PB-O3A
39	FG	501	GTP	PG-O3B-PB-O3A

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Mol	Chain	Res	Type	Atoms
39	GC	501	GTP	PG-O3B-PB-O3A
39	GE	501	GTP	PG-O3B-PB-O3A
39	GH	501	GTP	PG-O3B-PB-O3A
39	HE	501	GTP	PG-O3B-PB-O3A
39	IJ	501	GTP	PG-O3B-PB-O3A
39	JA	501	GTP	PG-O3B-PB-O3A
39	KL	501	GTP	PG-O3B-PB-O3A
39	LI	501	GTP	PG-O3B-PB-O3A
39	MD	501	GTP	PG-O3B-PB-O3A
39	NC	501	GTP	PG-O3B-PB-O3A
39	OK	501	GTP	PG-O3B-PB-O3A
39	QK	501	GTP	PG-O3B-PB-O3A
39	RI	501	GTP	PG-O3B-PB-O3A
39	WE	501	GTP	PG-O3B-PB-O3A
39	BF	501	GTP	C3'-C4'-C5'-O5'
39	CB	501	GTP	O4'-C4'-C5'-O5'
39	FB	501	GTP	O4'-C4'-C5'-O5'
39	JJ	501	GTP	C3'-C4'-C5'-O5'
39	LJ	501	GTP	C3'-C4'-C5'-O5'
39	NB	501	GTP	C3'-C4'-C5'-O5'
39	OB	501	GTP	C3'-C4'-C5'-O5'
39	OH	501	GTP	O4'-C4'-C5'-O5'
39	OL	501	GTP	C3'-C4'-C5'-O5'
39	QD	501	GTP	C3'-C4'-C5'-O5'
39	RF	501	GTP	C3'-C4'-C5'-O5'
39	RL	501	GTP	O4'-C4'-C5'-O5'
39	TN	501	GTP	C3'-C4'-C5'-O5'
39	VD	501	GTP	C3'-C4'-C5'-O5'
39	WF	501	GTP	C3'-C4'-C5'-O5'
39	WH	501	GTP	C3'-C4'-C5'-O5'
39	BE	501	GTP	O4'-C1'-N9-C8
39	CB	501	GTP	O4'-C1'-N9-C8
39	CJ	501	GTP	O4'-C1'-N9-C8
39	CK	501	GTP	O4'-C1'-N9-C8
39	CL	501	GTP	O4'-C1'-N9-C8
39	CM	501	GTP	O4'-C1'-N9-C8
39	DA	501	GTP	O4'-C1'-N9-C8
39	DB	501	GTP	O4'-C1'-N9-C8
39	DJ	501	GTP	O4'-C1'-N9-C8
39	DL	501	GTP	O4'-C1'-N9-C8
39	EH	501	GTP	O4'-C1'-N9-C8
39	EJ	501	GTP	O4'-C1'-N9-C8

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Mol	Chain	Res	Type	Atoms
39	FD	501	GTP	O4'-C1'-N9-C8
39	FE	501	GTP	O4'-C1'-N9-C8
39	FJ	501	GTP	O4'-C1'-N9-C8
39	GD	501	GTP	O4'-C1'-N9-C8
39	GI	501	GTP	O4'-C1'-N9-C8
39	HB	501	GTP	O4'-C1'-N9-C8
39	IK	501	GTP	O4'-C1'-N9-C8
39	IL	501	GTP	O4'-C1'-N9-C8
39	JA	501	GTP	O4'-C1'-N9-C8
39	JC	501	GTP	O4'-C1'-N9-C8
39	JD	501	GTP	O4'-C1'-N9-C8
39	KC	501	GTP	O4'-C1'-N9-C8
39	KG	501	GTP	O4'-C1'-N9-C8
39	KK	501	GTP	O4'-C1'-N9-C8
39	LA	501	GTP	O4'-C1'-N9-C8
39	LB	501	GTP	O4'-C1'-N9-C8
39	MG	501	GTP	O4'-C1'-N9-C8
39	ND	501	GTP	O4'-C1'-N9-C8
39	NF	501	GTP	O4'-C1'-N9-C8
39	NI	501	GTP	O4'-C1'-N9-C8
39	NL	501	GTP	O4'-C1'-N9-C8
39	OB	501	GTP	O4'-C1'-N9-C8
39	OK	501	GTP	O4'-C1'-N9-C8
39	PH	501	GTP	O4'-C1'-N9-C8
39	PK	501	GTP	O4'-C1'-N9-C8
39	PL	501	GTP	O4'-C1'-N9-C8
39	QF	501	GTP	O4'-C1'-N9-C8
39	QG	501	GTP	O4'-C1'-N9-C8
39	SB	501	GTP	O4'-C1'-N9-C8
39	SJ	501	GTP	O4'-C1'-N9-C8
39	SL	501	GTP	O4'-C1'-N9-C8
39	TD	501	GTP	O4'-C1'-N9-C8
39	TE	501	GTP	O4'-C1'-N9-C8
39	TK	501	GTP	O4'-C1'-N9-C8
39	UA	501	GTP	O4'-C1'-N9-C8
39	UB	501	GTP	O4'-C1'-N9-C8
39	UH	501	GTP	O4'-C1'-N9-C8
39	UL	501	GTP	O4'-C1'-N9-C8
39	VD	501	GTP	O4'-C1'-N9-C8
39	WG	501	GTP	O4'-C1'-N9-C8
39	DG	501	GTP	O4'-C1'-N9-C4
39	FG	501	GTP	O4'-C1'-N9-C4

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Mol	Chain	Res	Type	Atoms
39	GK	501	GTP	O4'-C1'-N9-C4
39	IF	501	GTP	O4'-C1'-N9-C4
39	KJ	501	GTP	O4'-C1'-N9-C4
39	NG	501	GTP	O4'-C1'-N9-C4
39	OD	501	GTP	O4'-C1'-N9-C4
39	RG	501	GTP	O4'-C1'-N9-C4
39	SC	501	GTP	O4'-C1'-N9-C4
39	WF	501	GTP	O4'-C1'-N9-C4
39	WI	501	GTP	O4'-C1'-N9-C4
39	EL	501	GTP	C3'-C4'-C5'-O5'
39	RE	501	GTP	C3'-C4'-C5'-O5'
39	TH	501	GTP	O4'-C4'-C5'-O5'
39	UB	501	GTP	C3'-C4'-C5'-O5'
39	IM	501	GTP	PB-O3B-PG-O1G
39	QB	501	GTP	PB-O3B-PG-O1G
39	QD	502	GTP	PB-O3B-PG-O1G
39	BF	501	GTP	PG-O3B-PB-O3A
39	BI	501	GTP	PG-O3B-PB-O3A
39	CG	501	GTP	PG-O3B-PB-O3A
39	CH	501	GTP	PG-O3B-PB-O3A
39	CI	501	GTP	PG-O3B-PB-O3A
39	FA	501	GTP	PG-O3B-PB-O3A
39	IG	501	GTP	PG-O3B-PB-O3A
39	JH	501	GTP	PG-O3B-PB-O3A
39	KK	501	GTP	PG-O3B-PB-O3A
39	LG	501	GTP	PG-O3B-PB-O3A
39	PE	501	GTP	PG-O3B-PB-O3A
39	RC	501	GTP	PG-O3B-PB-O3A
39	SI	501	GTP	PG-O3B-PB-O3A
39	VC	501	GTP	PG-O3B-PB-O3A
39	AG	501	GTP	PB-O3B-PG-O2G
39	BG	501	GTP	PB-O3B-PG-O2G
39	ID	501	GTP	PB-O3B-PG-O3G
39	JD	501	GTP	PB-O3B-PG-O3G
39	KC	501	GTP	PB-O3B-PG-O2G
39	KH	501	GTP	PB-O3B-PG-O2G
39	LJ	501	GTP	PB-O3B-PG-O2G
39	PM	501	GTP	PB-O3B-PG-O2G
39	QI	501	GTP	PB-O3B-PG-O2G
39	QJ	501	GTP	PB-O3B-PG-O3G
39	RG	501	GTP	PB-O3B-PG-O2G
39	SK	501	GTP	PB-O3B-PG-O2G

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Mol	Chain	Res	Type	Atoms
39	WI	501	GTP	PB-O3B-PG-O2G
39	EK	501	GTP	O4'-C1'-N9-C8
39	JG	501	GTP	O4'-C1'-N9-C8
39	KE	501	GTP	O4'-C1'-N9-C8
39	SI	501	GTP	O4'-C1'-N9-C8
39	TH	501	GTP	O4'-C1'-N9-C8
39	VC	501	GTP	O4'-C1'-N9-C8
39	WD	501	GTP	O4'-C1'-N9-C8
39	WH	501	GTP	O4'-C1'-N9-C8
39	WJ	501	GTP	O4'-C1'-N9-C8
39	AF	501	GTP	O4'-C1'-N9-C4
39	KF	501	GTP	O4'-C1'-N9-C4
39	MF	501	GTP	O4'-C1'-N9-C4
39	OL	501	GTP	O4'-C1'-N9-C4
39	PF	501	GTP	O4'-C1'-N9-C4
39	SD	501	GTP	O4'-C1'-N9-C4
39	UE	501	GTP	O4'-C1'-N9-C4
39	CJ	501	GTP	C3'-C4'-C5'-O5'
39	DH	501	GTP	C3'-C4'-C5'-O5'
39	EJ	501	GTP	C3'-C4'-C5'-O5'
39	FF	501	GTP	C3'-C4'-C5'-O5'
39	JL	501	GTP	C3'-C4'-C5'-O5'
39	LH	501	GTP	O4'-C4'-C5'-O5'
39	OJ	501	GTP	C3'-C4'-C5'-O5'
39	QF	501	GTP	C3'-C4'-C5'-O5'
39	RJ	501	GTP	C3'-C4'-C5'-O5'
39	TD	501	GTP	C3'-C4'-C5'-O5'
39	WD	501	GTP	C3'-C4'-C5'-O5'
39	WJ	501	GTP	C3'-C4'-C5'-O5'
39	AC	501	GTP	PB-O3A-PA-O2A
39	BC	501	GTP	PB-O3A-PA-O2A
39	BM	501	GTP	PB-O3A-PA-O2A
39	CC	501	GTP	PA-O3A-PB-O1B
39	CC	501	GTP	PB-O3A-PA-O2A
39	CI	501	GTP	PB-O3A-PA-O2A
39	FA	501	GTP	PB-O3A-PA-O2A
39	GK	501	GTP	PB-O3A-PA-O2A
39	HL	501	GTP	PG-O3B-PB-O1B
39	MD	502	GTP	PB-O3A-PA-O2A
39	MK	501	GTP	PB-O3A-PA-O2A
39	OI	501	GTP	PG-O3B-PB-O1B
39	OI	501	GTP	PB-O3A-PA-O2A

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Mol	Chain	Res	Type	Atoms
39	PK	501	GTP	PB-O3A-PA-O2A
39	PM	501	GTP	PB-O3A-PA-O2A
39	QG	501	GTP	PB-O3A-PA-O2A
39	QL	502	GTP	PB-O3A-PA-O2A
39	RI	501	GTP	PA-O3A-PB-O1B
39	TK	501	GTP	PG-O3B-PB-O1B
39	WE	501	GTP	PB-O3A-PA-O2A
39	WK	501	GTP	PB-O3A-PA-O2A
39	CC	501	GTP	PG-O3B-PB-O3A
39	EK	501	GTP	PG-O3B-PB-O3A
39	VA	501	GTP	PG-O3B-PB-O3A
39	AC	501	GTP	O4'-C1'-N9-C8
39	CE	501	GTP	O4'-C1'-N9-C8
39	CG	501	GTP	O4'-C1'-N9-C8
39	EI	501	GTP	O4'-C1'-N9-C8
39	JH	501	GTP	O4'-C1'-N9-C8
39	JI	501	GTP	O4'-C1'-N9-C8
39	NH	501	GTP	O4'-C1'-N9-C8
39	PC	501	GTP	O4'-C1'-N9-C8
39	TG	501	GTP	O4'-C1'-N9-C8
39	TM	501	GTP	O4'-C1'-N9-C8
39	VK	501	GTP	O4'-C1'-N9-C8
39	WC	501	GTP	O4'-C1'-N9-C8
39	IM	501	GTP	O4'-C1'-N9-C4
39	VJ	501	GTP	O4'-C1'-N9-C4
39	AL	501	GTP	C3'-C4'-C5'-O5'
39	HB	501	GTP	C3'-C4'-C5'-O5'
39	TB	501	GTP	C3'-C4'-C5'-O5'
39	WK	501	GTP	O4'-C4'-C5'-O5'
39	AL	501	GTP	O4'-C1'-N9-C8
39	AM	501	GTP	O4'-C1'-N9-C8
39	DE	501	GTP	O4'-C1'-N9-C8
39	DH	501	GTP	O4'-C1'-N9-C8
39	EB	501	GTP	O4'-C1'-N9-C8
39	ED	501	GTP	O4'-C1'-N9-C8
39	FF	501	GTP	O4'-C1'-N9-C8
39	GJ	501	GTP	O4'-C1'-N9-C8
39	IJ	501	GTP	O4'-C1'-N9-C8
39	JF	501	GTP	O4'-C1'-N9-C8
39	JL	501	GTP	O4'-C1'-N9-C8
39	LD	501	GTP	O4'-C1'-N9-C8
39	LL	501	GTP	O4'-C1'-N9-C8

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Mol	Chain	Res	Type	Atoms
39	MH	501	GTP	O4'-C1'-N9-C8
39	OA	501	GTP	O4'-C1'-N9-C8
39	OH	501	GTP	O4'-C1'-N9-C8
39	OJ	501	GTP	O4'-C1'-N9-C8
39	PE	501	GTP	O4'-C1'-N9-C8
39	PI	501	GTP	O4'-C1'-N9-C8
39	QJ	501	GTP	O4'-C1'-N9-C8
39	RD	501	GTP	O4'-C1'-N9-C8
39	RJ	501	GTP	O4'-C1'-N9-C8
39	RM	501	GTP	O4'-C1'-N9-C8
39	SE	501	GTP	O4'-C1'-N9-C8
39	SG	501	GTP	O4'-C1'-N9-C8
39	SK	501	GTP	O4'-C1'-N9-C8
39	TC	501	GTP	O4'-C1'-N9-C8
39	UD	501	GTP	O4'-C1'-N9-C8
39	UK	501	GTP	O4'-C1'-N9-C8
39	VI	501	GTP	O4'-C1'-N9-C8
39	EC	501	GTP	O4'-C1'-N9-C4
39	LI	501	GTP	O4'-C1'-N9-C4
39	LJ	501	GTP	O4'-C1'-N9-C4
39	MB	501	GTP	O4'-C1'-N9-C4
39	MM	501	GTP	O4'-C1'-N9-C4
39	QC	501	GTP	O4'-C1'-N9-C4
39	QD	501	GTP	O4'-C1'-N9-C4
39	RC	501	GTP	O4'-C1'-N9-C4
39	SF	501	GTP	O4'-C1'-N9-C4
39	UI	501	GTP	O4'-C1'-N9-C4
39	AC	501	GTP	PG-O3B-PB-O3A
39	AE	501	GTP	PG-O3B-PB-O3A
39	BL	501	GTP	PG-O3B-PB-O3A
39	DF	501	GTP	PG-O3B-PB-O3A
39	EC	501	GTP	PG-O3B-PB-O3A
39	FH	501	GTP	PG-O3B-PB-O3A
39	IF	501	GTP	PG-O3B-PB-O3A
39	LC	501	GTP	PG-O3B-PB-O3A
39	MJ	501	GTP	PG-O3B-PB-O3A
39	NI	501	GTP	PG-O3B-PB-O3A
39	WF	501	GTP	PG-O3B-PB-O3A
39	AF	501	GTP	C5'-O5'-PA-O3A
39	AF	501	GTP	C5'-O5'-PA-O1A
39	AH	501	GTP	C5'-O5'-PA-O1A
39	BF	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
39	BF	501	GTP	C5'-O5'-PA-O1A
39	BL	501	GTP	C5'-O5'-PA-O3A
39	BL	501	GTP	C5'-O5'-PA-O1A
39	CB	501	GTP	C5'-O5'-PA-O1A
39	CD	501	GTP	C5'-O5'-PA-O1A
39	CF	501	GTP	C5'-O5'-PA-O1A
39	CJ	501	GTP	C5'-O5'-PA-O1A
39	DH	501	GTP	C5'-O5'-PA-O1A
39	DJ	501	GTP	C5'-O5'-PA-O1A
39	DL	501	GTP	C5'-O5'-PA-O3A
39	DL	501	GTP	C5'-O5'-PA-O1A
39	DL	501	GTP	C5'-O5'-PA-O2A
39	EB	501	GTP	C5'-O5'-PA-O1A
39	EB	501	GTP	C5'-O5'-PA-O2A
39	ED	501	GTP	C5'-O5'-PA-O3A
39	ED	501	GTP	C5'-O5'-PA-O1A
39	EF	501	GTP	C5'-O5'-PA-O1A
39	EH	501	GTP	C5'-O5'-PA-O1A
39	EJ	501	GTP	C5'-O5'-PA-O1A
39	EL	501	GTP	C5'-O5'-PA-O1A
39	FB	501	GTP	C5'-O5'-PA-O1A
39	FF	501	GTP	C5'-O5'-PA-O1A
39	FL	501	GTP	C5'-O5'-PA-O3A
39	FL	501	GTP	C5'-O5'-PA-O1A
39	FL	501	GTP	C5'-O5'-PA-O2A
39	GJ	501	GTP	C5'-O5'-PA-O1A
39	HB	501	GTP	C5'-O5'-PA-O1A
39	HD	501	GTP	C5'-O5'-PA-O3A
39	HD	501	GTP	C5'-O5'-PA-O1A
39	HF	501	GTP	C5'-O5'-PA-O3A
39	HF	501	GTP	C5'-O5'-PA-O1A
39	HF	501	GTP	C5'-O5'-PA-O2A
39	HH	501	GTP	C5'-O5'-PA-O3A
39	HH	501	GTP	C5'-O5'-PA-O1A
39	HJ	501	GTP	C5'-O5'-PA-O3A
39	HJ	501	GTP	C5'-O5'-PA-O1A
39	IB	501	GTP	C5'-O5'-PA-O3A
39	IB	501	GTP	C5'-O5'-PA-O1A
39	IF	501	GTP	C5'-O5'-PA-O3A
39	IF	501	GTP	C5'-O5'-PA-O1A
39	JB	501	GTP	C5'-O5'-PA-O1A
39	JH	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
39	JJ	501	GTP	C5'-O5'-PA-O1A
39	JL	501	GTP	C5'-O5'-PA-O1A
39	KB	501	GTP	C5'-O5'-PA-O3A
39	KB	501	GTP	C5'-O5'-PA-O1A
39	KD	501	GTP	C5'-O5'-PA-O1A
39	KH	501	GTP	C5'-O5'-PA-O1A
39	KJ	501	GTP	C5'-O5'-PA-O3A
39	KJ	501	GTP	C5'-O5'-PA-O1A
39	KL	501	GTP	C5'-O5'-PA-O3A
39	KL	501	GTP	C5'-O5'-PA-O1A
39	LF	501	GTP	C5'-O5'-PA-O1A
39	LH	501	GTP	C5'-O5'-PA-O3A
39	LH	501	GTP	C5'-O5'-PA-O1A
39	LJ	501	GTP	C5'-O5'-PA-O3A
39	LJ	501	GTP	C5'-O5'-PA-O1A
39	LJ	501	GTP	C5'-O5'-PA-O2A
39	LL	501	GTP	C5'-O5'-PA-O3A
39	LL	501	GTP	C5'-O5'-PA-O1A
39	MB	501	GTP	C5'-O5'-PA-O3A
39	MB	501	GTP	C5'-O5'-PA-O1A
39	MB	501	GTP	C5'-O5'-PA-O2A
39	MD	501	GTP	C5'-O5'-PA-O3A
39	MD	501	GTP	C5'-O5'-PA-O1A
39	MH	501	GTP	C5'-O5'-PA-O1A
39	MJ	501	GTP	C5'-O5'-PA-O3A
39	MJ	501	GTP	C5'-O5'-PA-O1A
39	NB	501	GTP	C5'-O5'-PA-O3A
39	NB	501	GTP	C5'-O5'-PA-O1A
39	NF	501	GTP	C5'-O5'-PA-O3A
39	NF	501	GTP	C5'-O5'-PA-O1A
39	NH	501	GTP	C5'-O5'-PA-O3A
39	NH	501	GTP	C5'-O5'-PA-O1A
39	NJ	501	GTP	C5'-O5'-PA-O1A
39	OB	501	GTP	C5'-O5'-PA-O3A
39	OB	501	GTP	C5'-O5'-PA-O1A
39	OD	501	GTP	C5'-O5'-PA-O3A
39	OD	501	GTP	C5'-O5'-PA-O1A
39	OF	501	GTP	C5'-O5'-PA-O3A
39	OF	501	GTP	C5'-O5'-PA-O1A
39	OH	501	GTP	C5'-O5'-PA-O1A
39	OJ	501	GTP	C5'-O5'-PA-O1A
39	OL	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
39	OL	501	GTP	C5'-O5'-PA-O1A
39	PB	501	GTP	C5'-O5'-PA-O3A
39	PB	501	GTP	C5'-O5'-PA-O1A
39	PL	501	GTP	C5'-O5'-PA-O1A
39	QF	501	GTP	C5'-O5'-PA-O3A
39	QF	501	GTP	C5'-O5'-PA-O1A
39	QF	501	GTP	C5'-O5'-PA-O2A
39	QL	501	GTP	C5'-O5'-PA-O3A
39	QL	501	GTP	C5'-O5'-PA-O1A
39	QL	501	GTP	C5'-O5'-PA-O2A
39	RD	501	GTP	C5'-O5'-PA-O3A
39	RD	501	GTP	C5'-O5'-PA-O1A
39	RF	501	GTP	C5'-O5'-PA-O3A
39	RF	501	GTP	C5'-O5'-PA-O1A
39	RH	501	GTP	C5'-O5'-PA-O3A
39	RH	501	GTP	C5'-O5'-PA-O1A
39	RL	501	GTP	C5'-O5'-PA-O3A
39	RL	501	GTP	C5'-O5'-PA-O1A
39	SD	501	GTP	C5'-O5'-PA-O1A
39	SH	501	GTP	C5'-O5'-PA-O3A
39	SH	501	GTP	C5'-O5'-PA-O1A
39	SL	501	GTP	C5'-O5'-PA-O3A
39	SL	501	GTP	C5'-O5'-PA-O1A
39	TB	501	GTP	C5'-O5'-PA-O3A
39	TB	501	GTP	C5'-O5'-PA-O1A
39	TD	501	GTP	C5'-O5'-PA-O1A
39	TH	501	GTP	C5'-O5'-PA-O3A
39	TH	501	GTP	C5'-O5'-PA-O1A
39	TN	501	GTP	C5'-O5'-PA-O3A
39	TN	501	GTP	C5'-O5'-PA-O1A
39	UB	501	GTP	C5'-O5'-PA-O1A
39	UD	501	GTP	C5'-O5'-PA-O1A
39	UF	501	GTP	C5'-O5'-PA-O1A
39	UH	501	GTP	C5'-O5'-PA-O3A
39	UH	501	GTP	C5'-O5'-PA-O1A
39	UJ	501	GTP	C5'-O5'-PA-O3A
39	UJ	501	GTP	C5'-O5'-PA-O1A
39	UL	501	GTP	C5'-O5'-PA-O1A
39	VD	501	GTP	C5'-O5'-PA-O3A
39	VD	501	GTP	C5'-O5'-PA-O1A
39	VJ	501	GTP	C5'-O5'-PA-O1A
39	VL	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
39	VL	501	GTP	C5'-O5'-PA-O1A
39	WD	501	GTP	C5'-O5'-PA-O1A
39	WF	501	GTP	C5'-O5'-PA-O3A
39	WF	501	GTP	C5'-O5'-PA-O1A
39	WH	501	GTP	C5'-O5'-PA-O3A
39	WH	501	GTP	C5'-O5'-PA-O1A
39	WJ	501	GTP	C5'-O5'-PA-O1A
39	DC	501	GTP	PB-O3B-PG-O1G
39	SC	501	GTP	PB-O3B-PG-O1G
39	VB	501	GTP	PB-O3B-PG-O1G
39	AB	501	GTP	O4'-C1'-N9-C8
39	HL	501	GTP	O4'-C1'-N9-C8
39	IA	501	GTP	O4'-C1'-N9-C8
39	JB	501	GTP	O4'-C1'-N9-C8
39	QL	501	GTP	O4'-C1'-N9-C8
39	RL	501	GTP	O4'-C1'-N9-C8
39	AH	501	GTP	O4'-C1'-N9-C4
39	AK	501	GTP	O4'-C1'-N9-C4
39	DI	501	GTP	O4'-C1'-N9-C4
39	JE	501	GTP	O4'-C1'-N9-C4
39	KD	501	GTP	O4'-C1'-N9-C4
39	PB	501	GTP	O4'-C1'-N9-C4
39	RI	501	GTP	O4'-C1'-N9-C4
39	TN	501	GTP	O4'-C1'-N9-C4
39	DA	501	GTP	O4'-C4'-C5'-O5'
39	IH	501	GTP	O4'-C4'-C5'-O5'
39	JF	501	GTP	O4'-C4'-C5'-O5'
39	QH	501	GTP	O4'-C4'-C5'-O5'
39	BC	501	GTP	PG-O3B-PB-O3A
39	HG	501	GTP	PG-O3B-PB-O3A
39	IB	501	GTP	PG-O3B-PB-O3A
39	KG	501	GTP	PG-O3B-PB-O3A
39	KJ	501	GTP	PG-O3B-PB-O3A
39	SG	501	GTP	PG-O3B-PB-O3A
39	UC	501	GTP	PG-O3B-PB-O3A
39	AC	501	GTP	PA-O3A-PB-O2B
39	DA	501	GTP	PB-O3A-PA-O2A
39	DG	501	GTP	PB-O3A-PA-O2A
39	FC	501	GTP	PB-O3A-PA-O2A
39	GI	501	GTP	PB-O3A-PA-O2A
39	HA	501	GTP	PB-O3A-PA-O2A
39	HI	501	GTP	PA-O3A-PB-O1B

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Mol	Chain	Res	Type	Atoms
39	II	501	GTP	PA-O3A-PB-O1B
39	KA	501	GTP	PB-O3A-PA-O2A
39	LE	501	GTP	PB-O3A-PA-O2A
39	LK	501	GTP	PB-O3A-PA-O2A
39	OC	501	GTP	PG-O3B-PB-O1B
39	OC	501	GTP	PB-O3A-PA-O2A
39	PC	501	GTP	PB-O3A-PA-O2A
39	PI	501	GTP	PB-O3A-PA-O2A
39	PM	501	GTP	PG-O3B-PB-O1B
39	SG	501	GTP	PB-O3A-PA-O2A
39	SK	501	GTP	PB-O3A-PA-O2A
39	TE	501	GTP	PB-O3A-PA-O2A
39	TK	501	GTP	PB-O3A-PA-O2A
39	UG	501	GTP	PB-O3A-PA-O2A
39	UI	501	GTP	PB-O3A-PA-O2A
39	VG	501	GTP	PB-O3A-PA-O2A
39	AE	501	GTP	O4'-C1'-N9-C8
39	AG	501	GTP	O4'-C1'-N9-C8
39	CF	501	GTP	O4'-C1'-N9-C8
39	DD	501	GTP	O4'-C1'-N9-C8
39	DF	501	GTP	O4'-C1'-N9-C8
39	DK	501	GTP	O4'-C1'-N9-C8
39	EA	501	GTP	O4'-C1'-N9-C8
39	FB	501	GTP	O4'-C1'-N9-C8
39	GE	501	GTP	O4'-C1'-N9-C8
39	GH	501	GTP	O4'-C1'-N9-C8
39	HJ	501	GTP	O4'-C1'-N9-C8
39	ID	501	GTP	O4'-C1'-N9-C8
39	LG	501	GTP	O4'-C1'-N9-C8
39	NC	501	GTP	O4'-C1'-N9-C8
39	PG	501	GTP	O4'-C1'-N9-C8
39	QD	502	GTP	O4'-C1'-N9-C8
39	QH	501	GTP	O4'-C1'-N9-C8
39	QL	502	GTP	O4'-C1'-N9-C8
39	VE	501	GTP	O4'-C1'-N9-C8
39	VF	501	GTP	O4'-C1'-N9-C8
39	VL	501	GTP	O4'-C1'-N9-C8
39	FC	501	GTP	O4'-C1'-N9-C4
39	GG	501	GTP	O4'-C1'-N9-C4
39	RH	501	GTP	O4'-C1'-N9-C4
39	TI	501	GTP	O4'-C1'-N9-C4
39	GH	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
39	GJ	501	GTP	C3'-C4'-C5'-O5'
39	KB	501	GTP	C3'-C4'-C5'-O5'
39	KF	501	GTP	C3'-C4'-C5'-O5'
39	MH	501	GTP	O4'-C4'-C5'-O5'
39	NF	501	GTP	C3'-C4'-C5'-O5'
39	UL	501	GTP	C3'-C4'-C5'-O5'
39	BF	501	GTP	O4'-C1'-N9-C8
39	BG	501	GTP	O4'-C1'-N9-C8
39	BI	501	GTP	O4'-C1'-N9-C8
39	BL	501	GTP	O4'-C1'-N9-C8
39	FH	501	GTP	O4'-C1'-N9-C8
39	FI	501	GTP	O4'-C1'-N9-C8
39	HA	501	GTP	O4'-C1'-N9-C8
39	HD	501	GTP	O4'-C1'-N9-C8
39	IE	501	GTP	O4'-C1'-N9-C8
39	IG	501	GTP	O4'-C1'-N9-C8
39	MJ	501	GTP	O4'-C1'-N9-C8
39	NB	501	GTP	O4'-C1'-N9-C8
39	NE	501	GTP	O4'-C1'-N9-C8
39	OF	501	GTP	O4'-C1'-N9-C8
39	QI	501	GTP	O4'-C1'-N9-C8
39	RB	501	GTP	O4'-C1'-N9-C8
39	SH	501	GTP	O4'-C1'-N9-C8
39	TJ	501	GTP	O4'-C1'-N9-C8
39	UJ	501	GTP	O4'-C1'-N9-C8
39	WB	501	GTP	O4'-C1'-N9-C8
39	WL	501	GTP	O4'-C1'-N9-C8
39	DB	501	GTP	PG-O3B-PB-O3A
39	FC	501	GTP	PG-O3B-PB-O3A
39	FF	501	GTP	PG-O3B-PB-O3A
39	GB	501	GTP	PG-O3B-PB-O3A
39	GG	501	GTP	PG-O3B-PB-O3A
39	HK	501	GTP	PG-O3B-PB-O3A
39	KA	501	GTP	PG-O3B-PB-O3A
39	LA	501	GTP	PG-O3B-PB-O3A
39	LL	501	GTP	PG-O3B-PB-O3A
39	OF	501	GTP	PG-O3B-PB-O3A
39	PC	501	GTP	PG-O3B-PB-O3A
39	PG	501	GTP	PG-O3B-PB-O3A
39	RB	501	GTP	PG-O3B-PB-O3A
39	TF	501	GTP	PG-O3B-PB-O3A
39	UH	501	GTP	PG-O3B-PB-O3A

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Mol	Chain	Res	Type	Atoms
39	VI	501	GTP	PG-O3B-PB-O3A
39	LK	501	GTP	O4'-C4'-C5'-O5'
39	LF	501	GTP	PB-O3B-PG-O1G
39	PD	501	GTP	PB-O3B-PG-O1G
39	RH	501	GTP	O4'-C4'-C5'-O5'
39	RL	501	GTP	C3'-C4'-C5'-O5'
39	VB	501	GTP	O4'-C4'-C5'-O5'
39	HE	501	GTP	O4'-C1'-N9-C4
39	MD	501	GTP	O4'-C1'-N9-C4
39	DJ	501	GTP	PG-O3B-PB-O3A
39	IH	501	GTP	PG-O3B-PB-O3A
39	MD	502	GTP	C4'-C5'-O5'-PA
39	AI	501	GTP	O4'-C1'-N9-C8
39	BC	501	GTP	O4'-C1'-N9-C8
39	BD	501	GTP	O4'-C1'-N9-C8
39	CD	501	GTP	O4'-C1'-N9-C8
39	DC	501	GTP	O4'-C1'-N9-C8
39	EC	501	GTP	O4'-C1'-N9-C8
39	JJ	501	GTP	O4'-C1'-N9-C8
39	NG	501	GTP	O4'-C1'-N9-C8
39	OD	501	GTP	O4'-C1'-N9-C8
39	OH	501	GTP	C3'-C4'-C5'-O5'
39	PJ	501	GTP	O4'-C1'-N9-C8
39	QK	501	GTP	O4'-C1'-N9-C8
39	QL	501	GTP	C3'-C4'-C5'-O5'
39	RF	501	GTP	O4'-C1'-N9-C8
39	SC	501	GTP	O4'-C1'-N9-C8
39	TB	501	GTP	O4'-C1'-N9-C8
39	TH	501	GTP	C3'-C4'-C5'-O5'
39	TL	501	GTP	O4'-C4'-C5'-O5'
39	UC	501	GTP	O4'-C1'-N9-C8
39	WI	501	GTP	O4'-C1'-N9-C8
39	WK	501	GTP	C3'-C4'-C5'-O5'
39	BF	501	GTP	PG-O3B-PB-O1B
39	BM	501	GTP	PA-O3A-PB-O1B
39	CC	501	GTP	PA-O3A-PB-O2B
39	CI	501	GTP	PA-O3A-PB-O1B
39	CI	501	GTP	PA-O3A-PB-O2B
39	DE	501	GTP	PB-O3A-PA-O2A
39	DH	501	GTP	PG-O3B-PB-O2B
39	FK	501	GTP	PB-O3A-PA-O2A
39	HE	501	GTP	PB-O3A-PA-O2A

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Mol	Chain	Res	Type	Atoms
39	JD	501	GTP	PA-O3A-PB-O1B
39	JE	501	GTP	PB-O3A-PA-O2A
39	KK	501	GTP	PB-O3A-PA-O2A
39	MK	501	GTP	PG-O3B-PB-O1B
39	NC	501	GTP	PB-O3A-PA-O2A
39	NE	501	GTP	PB-O3A-PA-O2A
39	NI	501	GTP	PB-O3A-PA-O2A
39	OG	501	GTP	PB-O3A-PA-O2A
39	OI	501	GTP	PA-O3A-PB-O1B
39	PM	501	GTP	PA-O3A-PB-O1B
39	QG	501	GTP	PA-O3A-PB-O1B
39	RI	501	GTP	PB-O3A-PA-O2A
39	TK	501	GTP	PA-O3A-PB-O1B
39	WE	501	GTP	PA-O3A-PB-O2B
39	WK	501	GTP	PG-O3B-PB-O2B
39	OC	501	GTP	C4'-C5'-O5'-PA
39	OI	501	GTP	C4'-C5'-O5'-PA
39	QG	501	GTP	C4'-C5'-O5'-PA
39	WK	501	GTP	C4'-C5'-O5'-PA
39	BE	501	GTP	PG-O3B-PB-O3A
39	BJ	501	GTP	PG-O3B-PB-O3A
39	DE	501	GTP	PG-O3B-PB-O3A
39	HH	501	GTP	PG-O3B-PB-O3A
39	NE	501	GTP	PG-O3B-PB-O3A
39	WB	501	GTP	PG-O3B-PB-O3A
39	CB	501	GTP	C3'-C4'-C5'-O5'
39	FD	501	GTP	O4'-C4'-C5'-O5'
39	DG	501	GTP	O4'-C1'-N9-C8
39	EL	501	GTP	O4'-C1'-N9-C8
39	HH	501	GTP	O4'-C1'-N9-C8
39	IF	501	GTP	O4'-C1'-N9-C8
39	MC	501	GTP	O4'-C1'-N9-C8
39	OG	501	GTP	O4'-C1'-N9-C8
39	QB	501	GTP	O4'-C1'-N9-C8
39	RG	501	GTP	O4'-C1'-N9-C8
39	TF	501	GTP	O4'-C1'-N9-C8
39	UE	501	GTP	O4'-C1'-N9-C8
39	VA	501	GTP	C4'-C5'-O5'-PA
39	DA	501	GTP	C3'-C4'-C5'-O5'
39	FB	501	GTP	C3'-C4'-C5'-O5'
39	LH	501	GTP	C3'-C4'-C5'-O5'
39	VH	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
39	AD	501	GTP	O4'-C1'-N9-C8
39	DI	501	GTP	O4'-C1'-N9-C8
39	HE	501	GTP	O4'-C1'-N9-C8
39	KJ	501	GTP	O4'-C1'-N9-C8
39	KL	501	GTP	O4'-C1'-N9-C8
39	VJ	501	GTP	O4'-C1'-N9-C8
39	WF	501	GTP	O4'-C1'-N9-C8
39	AI	501	GTP	PB-O3B-PG-O1G
39	BH	501	GTP	PB-O3B-PG-O1G
39	CC	501	GTP	PB-O3B-PG-O1G
39	JF	501	GTP	PB-O3B-PG-O1G
39	DA	501	GTP	PG-O3B-PB-O3A
39	ML	501	GTP	PG-O3B-PB-O3A
39	NK	501	GTP	PG-O3B-PB-O3A
39	OD	501	GTP	PG-O3B-PB-O3A
39	OE	501	GTP	PG-O3B-PB-O3A
39	OG	501	GTP	PG-O3B-PB-O3A
39	QC	501	GTP	PG-O3B-PB-O3A
39	QI	501	GTP	PG-O3B-PB-O3A
39	RM	501	GTP	PG-O3B-PB-O3A
39	TB	501	GTP	PG-O3B-PB-O3A
39	TN	501	GTP	PG-O3B-PB-O3A
39	WH	501	GTP	PG-O3B-PB-O3A
39	GC	501	GTP	O4'-C1'-N9-C4
39	HK	501	GTP	O4'-C1'-N9-C4
39	IC	501	GTP	O4'-C1'-N9-C4
39	II	501	GTP	O4'-C1'-N9-C4
39	LC	501	GTP	O4'-C1'-N9-C4
39	AI	501	GTP	PB-O3B-PG-O2G
39	AI	501	GTP	PB-O3B-PG-O3G
39	BD	501	GTP	PB-O3B-PG-O2G
39	BH	501	GTP	PB-O3B-PG-O2G
39	CC	501	GTP	PB-O3B-PG-O2G
39	CI	501	GTP	PB-O3B-PG-O2G
39	DC	501	GTP	PB-O3B-PG-O2G
39	DC	501	GTP	PB-O3B-PG-O3G
39	DG	501	GTP	PB-O3B-PG-O2G
39	DG	501	GTP	PB-O3B-PG-O3G
39	EG	501	GTP	PB-O3B-PG-O3G
39	FI	501	GTP	PB-O3B-PG-O2G
39	FI	501	GTP	PB-O3B-PG-O3G
39	GI	501	GTP	PB-O3B-PG-O2G

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Mol	Chain	Res	Type	Atoms
39	GI	501	GTP	PB-O3B-PG-O3G
39	IM	501	GTP	PB-O3B-PG-O2G
39	IM	501	GTP	PB-O3B-PG-O3G
39	JE	501	GTP	PB-O3B-PG-O2G
39	JF	501	GTP	PB-O3B-PG-O3G
39	JI	501	GTP	PB-O3B-PG-O2G
39	KE	501	GTP	PB-O3B-PG-O2G
39	KI	501	GTP	PB-O3B-PG-O2G
39	LF	501	GTP	PB-O3B-PG-O2G
39	LF	501	GTP	PB-O3B-PG-O3G
39	MC	501	GTP	PB-O3B-PG-O2G
39	MC	501	GTP	PB-O3B-PG-O3G
39	MM	501	GTP	PB-O3B-PG-O2G
39	MM	501	GTP	PB-O3B-PG-O3G
39	NE	501	GTP	PB-O3B-PG-O2G
39	NG	501	GTP	PB-O3B-PG-O2G
39	NG	501	GTP	PB-O3B-PG-O3G
39	OG	501	GTP	PB-O3B-PG-O2G
39	PD	501	GTP	PB-O3B-PG-O2G
39	PD	501	GTP	PB-O3B-PG-O3G
39	PF	501	GTP	PB-O3B-PG-O2G
39	PH	501	GTP	PB-O3B-PG-O2G
39	QB	501	GTP	PB-O3B-PG-O2G
39	QB	501	GTP	PB-O3B-PG-O3G
39	QD	502	GTP	PB-O3B-PG-O2G
39	QD	502	GTP	PB-O3B-PG-O3G
39	QH	501	GTP	PB-O3B-PG-O2G
39	SC	501	GTP	PB-O3B-PG-O2G
39	SC	501	GTP	PB-O3B-PG-O3G
39	SE	501	GTP	PB-O3B-PG-O2G
39	VB	501	GTP	PB-O3B-PG-O2G
39	VB	501	GTP	PB-O3B-PG-O3G
39	WG	501	GTP	PB-O3B-PG-O2G
39	WG	501	GTP	PB-O3B-PG-O3G
39	HF	501	GTP	C4'-C5'-O5'-PA
39	LE	501	GTP	C4'-C5'-O5'-PA
39	TL	501	GTP	C3'-C4'-C5'-O5'
39	AF	501	GTP	O4'-C1'-N9-C8
39	AH	501	GTP	O4'-C1'-N9-C8
39	BM	501	GTP	O4'-C1'-N9-C8
39	FG	501	GTP	O4'-C1'-N9-C8
39	GG	501	GTP	O4'-C1'-N9-C8

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Mol	Chain	Res	Type	Atoms
39	GK	501	GTP	O4'-C1'-N9-C8
39	HI	501	GTP	O4'-C1'-N9-C8
39	IM	501	GTP	O4'-C1'-N9-C8
39	JE	501	GTP	O4'-C1'-N9-C8
39	KD	501	GTP	O4'-C1'-N9-C8
39	KF	501	GTP	O4'-C1'-N9-C8
39	LI	501	GTP	O4'-C1'-N9-C8
39	LJ	501	GTP	O4'-C1'-N9-C8
39	MB	501	GTP	O4'-C1'-N9-C8
39	MF	501	GTP	O4'-C1'-N9-C8
39	MM	501	GTP	O4'-C1'-N9-C8
39	OL	501	GTP	O4'-C1'-N9-C8
39	PB	501	GTP	O4'-C1'-N9-C8
39	PF	501	GTP	O4'-C1'-N9-C8
39	QC	501	GTP	O4'-C1'-N9-C8
39	QD	501	GTP	O4'-C1'-N9-C8
39	RC	501	GTP	O4'-C1'-N9-C8
39	RH	501	GTP	O4'-C1'-N9-C8
39	RI	501	GTP	O4'-C1'-N9-C8
39	SD	501	GTP	O4'-C1'-N9-C8
39	SF	501	GTP	O4'-C1'-N9-C8
39	TI	501	GTP	O4'-C1'-N9-C8
39	TN	501	GTP	O4'-C1'-N9-C8
39	UI	501	GTP	O4'-C1'-N9-C8
39	AJ	501	GTP	O4'-C1'-N9-C4
39	ML	501	GTP	O4'-C1'-N9-C4
39	AB	501	GTP	PG-O3B-PB-O3A
39	AF	501	GTP	PG-O3B-PB-O3A
39	HA	501	GTP	PG-O3B-PB-O3A
39	JG	501	GTP	PG-O3B-PB-O3A
39	JL	501	GTP	PG-O3B-PB-O3A
39	KD	501	GTP	PG-O3B-PB-O3A
39	MF	501	GTP	PG-O3B-PB-O3A
39	NF	501	GTP	PG-O3B-PB-O3A
39	OH	501	GTP	PG-O3B-PB-O3A
39	PB	501	GTP	PG-O3B-PB-O3A
39	RH	501	GTP	PG-O3B-PB-O3A
39	RL	501	GTP	PG-O3B-PB-O3A
39	SK	501	GTP	PG-O3B-PB-O3A
39	TC	501	GTP	PG-O3B-PB-O3A
39	UB	501	GTP	PG-O3B-PB-O3A
39	UF	501	GTP	PG-O3B-PB-O3A

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Mol	Chain	Res	Type	Atoms
39	VD	501	GTP	PG-O3B-PB-O3A
39	VE	501	GTP	PG-O3B-PB-O3A
39	VF	501	GTP	PG-O3B-PB-O3A
39	VL	501	GTP	PG-O3B-PB-O3A
39	WD	501	GTP	PG-O3B-PB-O3A
39	WK	501	GTP	PG-O3B-PB-O3A
39	WA	501	GTP	C4'-C5'-O5'-PA
39	AB	501	GTP	PG-O3B-PB-O2B
39	AC	501	GTP	PG-O3B-PB-O1B
39	AD	501	GTP	PG-O3B-PB-O2B
39	AE	501	GTP	PG-O3B-PB-O1B
39	AE	501	GTP	PB-O3A-PA-O2A
39	AF	501	GTP	PG-O3B-PB-O2B
39	AG	501	GTP	PB-O3A-PA-O2A
39	AJ	501	GTP	PG-O3B-PB-O2B
39	AL	501	GTP	PG-O3B-PB-O2B
39	BB	501	GTP	PG-O3B-PB-O2B
39	BC	501	GTP	PG-O3B-PB-O1B
39	BC	501	GTP	PG-O3B-PB-O2B
39	BE	501	GTP	PG-O3B-PB-O1B
39	BE	501	GTP	PG-O3B-PB-O2B
39	BG	501	GTP	PB-O3A-PA-O2A
39	BL	501	GTP	PG-O3B-PB-O1B
39	BM	501	GTP	PA-O3A-PB-O2B
39	BM	501	GTP	PB-O3A-PA-O1A
39	CD	501	GTP	PG-O3B-PB-O2B
39	CF	501	GTP	PG-O3B-PB-O2B
39	CG	501	GTP	PG-O3B-PB-O1B
39	CG	501	GTP	PB-O3A-PA-O2A
39	CH	501	GTP	PG-O3B-PB-O2B
39	CJ	501	GTP	PG-O3B-PB-O2B
39	DA	501	GTP	PG-O3B-PB-O2B
39	DA	501	GTP	PB-O3A-PA-O1A
39	DB	501	GTP	PG-O3B-PB-O1B
39	DC	501	GTP	PB-O3A-PA-O2A
39	DD	501	GTP	PG-O3B-PB-O2B
39	DE	501	GTP	PG-O3B-PB-O1B
39	DE	501	GTP	PG-O3B-PB-O2B
39	DF	501	GTP	PG-O3B-PB-O1B
39	DG	501	GTP	PB-O3A-PA-O1A
39	DJ	501	GTP	PG-O3B-PB-O1B
39	DL	501	GTP	PG-O3B-PB-O2B

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Mol	Chain	Res	Type	Atoms
39	EC	501	GTP	PG-O3B-PB-O1B
39	EC	501	GTP	PG-O3B-PB-O2B
39	ED	501	GTP	PG-O3B-PB-O2B
39	EH	501	GTP	PG-O3B-PB-O2B
39	EK	501	GTP	PG-O3B-PB-O1B
39	FA	501	GTP	PG-O3B-PB-O1B
39	FB	501	GTP	PG-O3B-PB-O1B
39	FC	501	GTP	PG-O3B-PB-O2B
39	FC	501	GTP	PB-O3A-PA-O1A
39	FF	501	GTP	PG-O3B-PB-O1B
39	FG	501	GTP	PB-O3A-PA-O2A
39	FH	501	GTP	PG-O3B-PB-O1B
39	FJ	501	GTP	PG-O3B-PB-O2B
39	FK	501	GTP	PG-O3B-PB-O2B
39	FL	501	GTP	PG-O3B-PB-O2B
39	GA	501	GTP	PG-O3B-PB-O2B
39	GB	501	GTP	PG-O3B-PB-O1B
39	GD	501	GTP	PG-O3B-PB-O2B
39	GE	501	GTP	PB-O3A-PA-O2A
39	GG	501	GTP	PG-O3B-PB-O1B
39	GG	501	GTP	PG-O3B-PB-O2B
39	GH	501	GTP	PG-O3B-PB-O1B
39	GI	501	GTP	PB-O3A-PA-O1A
39	GJ	501	GTP	PG-O3B-PB-O2B
39	HA	501	GTP	PG-O3B-PB-O2B
39	HD	501	GTP	PG-O3B-PB-O2B
39	HG	501	GTP	PG-O3B-PB-O1B
39	HG	501	GTP	PG-O3B-PB-O2B
39	HG	501	GTP	PB-O3A-PA-O2A
39	HH	501	GTP	PG-O3B-PB-O1B
39	HI	501	GTP	PB-O3A-PA-O2A
39	HK	501	GTP	PG-O3B-PB-O1B
39	HK	501	GTP	PG-O3B-PB-O2B
39	IB	501	GTP	PG-O3B-PB-O1B
39	IE	501	GTP	PB-O3A-PA-O2A
39	IF	501	GTP	PG-O3B-PB-O1B
39	IH	501	GTP	PG-O3B-PB-O1B
39	JA	501	GTP	PB-O3A-PA-O1A
39	JA	501	GTP	PB-O3A-PA-O2A
39	JD	501	GTP	PA-O3A-PB-O2B
39	JD	501	GTP	PB-O3A-PA-O2A
39	JE	501	GTP	PB-O3A-PA-O1A

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Mol	Chain	Res	Type	Atoms
39	JG	501	GTP	PG-O3B-PB-O2B
39	KA	501	GTP	PG-O3B-PB-O1B
39	KA	501	GTP	PG-O3B-PB-O2B
39	KB	501	GTP	PG-O3B-PB-O2B
39	KC	501	GTP	PB-O3A-PA-O2A
39	KD	501	GTP	PG-O3B-PB-O2B
39	KE	501	GTP	PB-O3A-PA-O2A
39	KG	501	GTP	PG-O3B-PB-O1B
39	KG	501	GTP	PG-O3B-PB-O2B
39	KH	501	GTP	PA-O3A-PB-O2B
39	KJ	501	GTP	PG-O3B-PB-O1B
39	KK	501	GTP	PG-O3B-PB-O1B
39	KK	501	GTP	PB-O3A-PA-O1A
39	KL	501	GTP	PG-O3B-PB-O1B
39	LA	501	GTP	PG-O3B-PB-O1B
39	LA	501	GTP	PG-O3B-PB-O2B
39	LA	501	GTP	PB-O3A-PA-O2A
39	LC	501	GTP	PG-O3B-PB-O1B
39	LD	501	GTP	PG-O3B-PB-O2B
39	LL	501	GTP	PG-O3B-PB-O1B
39	MB	501	GTP	PG-O3B-PB-O2B
39	MD	502	GTP	PB-O3A-PA-O1A
39	MF	501	GTP	PG-O3B-PB-O2B
39	MG	501	GTP	PB-O3A-PA-O2A
39	MJ	501	GTP	PG-O3B-PB-O2B
39	MK	501	GTP	PB-O3A-PA-O1A
39	NE	501	GTP	PG-O3B-PB-O1B
39	NE	501	GTP	PG-O3B-PB-O2B
39	NF	501	GTP	PG-O3B-PB-O2B
39	NH	501	GTP	PG-O3B-PB-O2B
39	NI	501	GTP	PG-O3B-PB-O1B
39	NI	501	GTP	PG-O3B-PB-O2B
39	NI	501	GTP	PB-O3A-PA-O1A
39	NK	501	GTP	PG-O3B-PB-O2B
39	OB	501	GTP	PG-O3B-PB-O2B
39	OC	501	GTP	PB-O3A-PA-O1A
39	OD	501	GTP	PG-O3B-PB-O2B
39	OE	501	GTP	PG-O3B-PB-O1B
39	OE	501	GTP	PG-O3B-PB-O2B
39	OF	501	GTP	PG-O3B-PB-O1B
39	OG	501	GTP	PG-O3B-PB-O1B
39	OG	501	GTP	PG-O3B-PB-O2B

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Mol	Chain	Res	Type	Atoms
39	OG	501	GTP	PB-O3A-PA-O1A
39	OH	501	GTP	PG-O3B-PB-O2B
39	OJ	501	GTP	PG-O3B-PB-O2B
39	OL	501	GTP	PG-O3B-PB-O2B
39	PB	501	GTP	PG-O3B-PB-O2B
39	PC	501	GTP	PG-O3B-PB-O1B
39	PC	501	GTP	PG-O3B-PB-O2B
39	PG	501	GTP	PG-O3B-PB-O1B
39	PG	501	GTP	PB-O3A-PA-O1A
39	PG	501	GTP	PB-O3A-PA-O2A
39	PI	501	GTP	PB-O3A-PA-O1A
39	PJ	501	GTP	PG-O3B-PB-O2B
39	PL	501	GTP	PG-O3B-PB-O2B
39	PM	501	GTP	PB-O3A-PA-O1A
39	QC	501	GTP	PG-O3B-PB-O2B
39	QG	501	GTP	PB-O3A-PA-O1A
39	QI	501	GTP	PG-O3B-PB-O2B
39	QL	502	GTP	PB-O3A-PA-O1A
39	RB	501	GTP	PG-O3B-PB-O1B
39	RB	501	GTP	PG-O3B-PB-O2B
39	RC	501	GTP	PB-O3A-PA-O2A
39	RD	501	GTP	PG-O3B-PB-O2B
39	RF	501	GTP	PG-O3B-PB-O2B
39	RI	501	GTP	PB-O3A-PA-O1A
39	RK	501	GTP	PB-O3A-PA-O2A
39	RL	501	GTP	PG-O3B-PB-O2B
39	RM	501	GTP	PG-O3B-PB-O1B
39	RM	501	GTP	PG-O3B-PB-O2B
39	SD	501	GTP	PG-O3B-PB-O2B
39	SH	501	GTP	PG-O3B-PB-O2B
39	SI	501	GTP	PG-O3B-PB-O1B
39	SK	501	GTP	PG-O3B-PB-O2B
39	SK	501	GTP	PB-O3A-PA-O1A
39	SL	501	GTP	PG-O3B-PB-O2B
39	TC	501	GTP	PG-O3B-PB-O2B
39	TC	501	GTP	PB-O3A-PA-O2A
39	TE	501	GTP	PB-O3A-PA-O1A
39	TF	501	GTP	PG-O3B-PB-O1B
39	TG	501	GTP	PG-O3B-PB-O2B
39	TI	501	GTP	PB-O3A-PA-O1A
39	TI	501	GTP	PB-O3A-PA-O2A
39	TJ	501	GTP	PG-O3B-PB-O2B

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Mol	Chain	Res	Type	Atoms
39	TK	501	GTP	PB-O3A-PA-O1A
39	TL	501	GTP	PG-O3B-PB-O2B
39	UB	501	GTP	PG-O3B-PB-O2B
39	UC	501	GTP	PG-O3B-PB-O1B
39	UC	501	GTP	PG-O3B-PB-O2B
39	UC	501	GTP	PB-O3A-PA-O2A
39	UD	501	GTP	PG-O3B-PB-O2B
39	UF	501	GTP	PG-O3B-PB-O2B
39	UH	501	GTP	PG-O3B-PB-O1B
39	UI	501	GTP	PB-O3A-PA-O1A
39	UK	501	GTP	PG-O3B-PB-O2B
39	UL	501	GTP	PG-O3B-PB-O2B
39	VA	501	GTP	PG-O3B-PB-O1B
39	VC	501	GTP	PB-O3A-PA-O2A
39	VE	501	GTP	PG-O3B-PB-O2B
39	VF	501	GTP	PG-O3B-PB-O1B
39	VG	501	GTP	PG-O3B-PB-O2B
39	VG	501	GTP	PB-O3A-PA-O1A
39	VI	501	GTP	PG-O3B-PB-O1B
39	VI	501	GTP	PG-O3B-PB-O2B
39	VI	501	GTP	PB-O3A-PA-O2A
39	VL	501	GTP	PG-O3B-PB-O2B
39	WA	501	GTP	PG-O3B-PB-O2B
39	WA	501	GTP	PB-O3A-PA-O2A
39	WD	501	GTP	PG-O3B-PB-O2B
39	WE	501	GTP	PG-O3B-PB-O1B
39	WE	501	GTP	PA-O3A-PB-O1B
39	WF	501	GTP	PG-O3B-PB-O1B
39	WJ	501	GTP	PG-O3B-PB-O2B
39	WL	501	GTP	PG-O3B-PB-O2B
39	AK	501	GTP	O4'-C1'-N9-C8
39	HK	501	GTP	O4'-C1'-N9-C8
39	MD	501	GTP	O4'-C1'-N9-C8
39	DJ	501	GTP	O4'-C4'-C5'-O5'
39	JB	501	GTP	O4'-C4'-C5'-O5'
39	JD	501	GTP	O4'-C4'-C5'-O5'
39	GA	501	GTP	C4'-C5'-O5'-PA
39	AL	501	GTP	PG-O3B-PB-O3A
39	DI	501	GTP	PG-O3B-PB-O3A
39	FK	501	GTP	PG-O3B-PB-O3A
39	HC	501	GTP	PG-O3B-PB-O3A
39	II	501	GTP	PG-O3B-PB-O3A

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Mol	Chain	Res	Type	Atoms
39	KB	501	GTP	PG-O3B-PB-O3A
39	MD	502	GTP	PG-O3B-PB-O3A
39	NH	501	GTP	PG-O3B-PB-O3A
39	OB	501	GTP	PG-O3B-PB-O3A
39	OJ	501	GTP	PG-O3B-PB-O3A
39	PI	501	GTP	PG-O3B-PB-O3A
39	SH	501	GTP	PG-O3B-PB-O3A
39	SL	501	GTP	PG-O3B-PB-O3A
39	SM	501	GTP	PG-O3B-PB-O3A
39	VG	501	GTP	PG-O3B-PB-O3A
39	WA	501	GTP	PG-O3B-PB-O3A
39	WJ	501	GTP	PG-O3B-PB-O3A
39	CI	501	GTP	PB-O3B-PG-O1G
39	CL	501	GTP	O4'-C4'-C5'-O5'
39	HL	501	GTP	O4'-C4'-C5'-O5'
39	LF	501	GTP	O4'-C1'-N9-C4
39	PD	501	GTP	O4'-C1'-N9-C4
39	BB	501	GTP	PG-O3B-PB-O3A
39	CD	501	GTP	PG-O3B-PB-O3A
39	ED	501	GTP	PG-O3B-PB-O3A
39	MG	501	GTP	PG-O3B-PB-O3A
39	PL	501	GTP	PG-O3B-PB-O3A
39	SD	501	GTP	PG-O3B-PB-O3A
39	UK	501	GTP	PG-O3B-PB-O3A
39	UL	501	GTP	PG-O3B-PB-O3A
39	WL	501	GTP	PG-O3B-PB-O3A
39	LK	501	GTP	C3'-C4'-C5'-O5'
39	IC	501	GTP	O4'-C1'-N9-C8
39	BM	501	GTP	O4'-C1'-N9-C4
39	EG	501	GTP	O4'-C1'-N9-C4
39	MI	501	GTP	O4'-C1'-N9-C4
39	UG	501	GTP	O4'-C1'-N9-C4
39	AC	501	GTP	PG-O3B-PB-O2B
39	AC	501	GTP	PA-O3A-PB-O1B
39	AE	501	GTP	PG-O3B-PB-O2B
39	AH	501	GTP	PG-O3B-PB-O2B
39	BF	501	GTP	PG-O3B-PB-O2B
39	BG	501	GTP	PG-O3B-PB-O2B
39	BI	501	GTP	PG-O3B-PB-O1B
39	BJ	501	GTP	PG-O3B-PB-O1B
39	BJ	501	GTP	PG-O3B-PB-O2B
39	CB	501	GTP	PG-O3B-PB-O2B

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Mol	Chain	Res	Type	Atoms
39	CC	501	GTP	PG-O3B-PB-O1B
39	CI	501	GTP	PG-O3B-PB-O2B
39	CK	501	GTP	PG-O3B-PB-O2B
39	CL	501	GTP	PG-O3B-PB-O2B
39	CM	501	GTP	PG-O3B-PB-O1B
39	CM	501	GTP	PG-O3B-PB-O2B
39	DA	501	GTP	PG-O3B-PB-O1B
39	DF	501	GTP	PG-O3B-PB-O2B
39	DG	501	GTP	PG-O3B-PB-O2B
39	DI	501	GTP	PG-O3B-PB-O2B
39	DK	501	GTP	PG-O3B-PB-O2B
39	EA	501	GTP	PB-O3A-PA-O2A
39	EB	501	GTP	PG-O3B-PB-O2B
39	EF	501	GTP	PG-O3B-PB-O2B
39	EI	501	GTP	PG-O3B-PB-O1B
39	EI	501	GTP	PG-O3B-PB-O2B
39	EJ	501	GTP	PG-O3B-PB-O2B
39	EK	501	GTP	PG-O3B-PB-O2B
39	EK	501	GTP	PB-O3A-PA-O2A
39	EL	501	GTP	PG-O3B-PB-O2B
39	FB	501	GTP	PG-O3B-PB-O2B
39	FC	501	GTP	PG-O3B-PB-O1B
39	FD	501	GTP	PG-O3B-PB-O2B
39	FE	501	GTP	PG-O3B-PB-O2B
39	FG	501	GTP	PG-O3B-PB-O1B
39	FG	501	GTP	PG-O3B-PB-O2B
39	FH	501	GTP	PG-O3B-PB-O2B
39	GA	501	GTP	PB-O3A-PA-O2A
39	GC	501	GTP	PG-O3B-PB-O2B
39	GE	501	GTP	PG-O3B-PB-O1B
39	GF	501	GTP	PG-O3B-PB-O2B
39	GH	501	GTP	PG-O3B-PB-O2B
39	GI	501	GTP	PG-O3B-PB-O2B
39	GK	501	GTP	PG-O3B-PB-O2B
39	HA	501	GTP	PB-O3A-PA-O1A
39	HB	501	GTP	PG-O3B-PB-O2B
39	HC	501	GTP	PG-O3B-PB-O1B
39	HC	501	GTP	PG-O3B-PB-O2B
39	HE	501	GTP	PG-O3B-PB-O2B
39	HE	501	GTP	PB-O3A-PA-O1A
39	HG	501	GTP	PB-O3A-PA-O1A
39	HI	501	GTP	PG-O3B-PB-O2B

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Mol	Chain	Res	Type	Atoms
39	HJ	501	GTP	PG-O3B-PB-O2B
39	IA	501	GTP	PG-O3B-PB-O2B
39	IB	501	GTP	PG-O3B-PB-O2B
39	IE	501	GTP	PG-O3B-PB-O2B
39	IE	501	GTP	PB-O3A-PA-O1A
39	IF	501	GTP	PG-O3B-PB-O2B
39	II	501	GTP	PG-O3B-PB-O1B
39	II	501	GTP	PB-O3A-PA-O2A
39	IJ	501	GTP	PG-O3B-PB-O1B
39	IJ	501	GTP	PG-O3B-PB-O2B
39	IL	501	GTP	PG-O3B-PB-O2B
39	IM	501	GTP	PB-O3A-PA-O2A
39	JA	501	GTP	PG-O3B-PB-O1B
39	JA	501	GTP	PG-O3B-PB-O2B
39	JD	501	GTP	PB-O3A-PA-O1A
39	JH	501	GTP	PG-O3B-PB-O1B
39	JH	501	GTP	PG-O3B-PB-O2B
39	JI	501	GTP	PG-O3B-PB-O2B
39	JJ	501	GTP	PG-O3B-PB-O2B
39	JL	501	GTP	PG-O3B-PB-O2B
39	KA	501	GTP	PB-O3A-PA-O1A
39	KC	501	GTP	PG-O3B-PB-O2B
39	KC	501	GTP	PB-O3A-PA-O1A
39	KE	501	GTP	PG-O3B-PB-O2B
39	KE	501	GTP	PB-O3A-PA-O1A
39	KF	501	GTP	PG-O3B-PB-O2B
39	KH	501	GTP	PA-O3A-PB-O1B
39	KJ	501	GTP	PG-O3B-PB-O2B
39	LC	501	GTP	PG-O3B-PB-O2B
39	LC	501	GTP	PB-O3A-PA-O2A
39	LE	501	GTP	PB-O3A-PA-O1A
39	LG	501	GTP	PG-O3B-PB-O1B
39	LG	501	GTP	PB-O3A-PA-O2A
39	LH	501	GTP	PG-O3B-PB-O2B
39	LI	501	GTP	PG-O3B-PB-O2B
39	LI	501	GTP	PB-O3A-PA-O2A
39	LK	501	GTP	PB-O3A-PA-O1A
39	MD	501	GTP	PG-O3B-PB-O2B
39	MD	502	GTP	PG-O3B-PB-O1B
39	MG	501	GTP	PG-O3B-PB-O2B
39	MG	501	GTP	PB-O3A-PA-O1A
39	ML	501	GTP	PG-O3B-PB-O1B

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Mol	Chain	Res	Type	Atoms
39	ML	501	GTP	PG-O3B-PB-O2B
39	NB	501	GTP	PG-O3B-PB-O2B
39	NC	501	GTP	PG-O3B-PB-O2B
39	ND	501	GTP	PG-O3B-PB-O2B
39	NE	501	GTP	PB-O3A-PA-O1A
39	NK	501	GTP	PG-O3B-PB-O1B
39	OK	501	GTP	PG-O3B-PB-O2B
39	PC	501	GTP	PB-O3A-PA-O1A
39	PE	501	GTP	PG-O3B-PB-O1B
39	PI	501	GTP	PG-O3B-PB-O2B
39	QF	501	GTP	PG-O3B-PB-O2B
39	QI	501	GTP	PG-O3B-PB-O1B
39	QK	501	GTP	PG-O3B-PB-O1B
39	QK	501	GTP	PG-O3B-PB-O2B
39	QK	501	GTP	PB-O3A-PA-O2A
39	QL	501	GTP	PG-O3B-PB-O2B
39	RC	501	GTP	PG-O3B-PB-O2B
39	RG	501	GTP	PG-O3B-PB-O2B
39	RG	501	GTP	PB-O3A-PA-O2A
39	RH	501	GTP	PG-O3B-PB-O2B
39	RI	501	GTP	PG-O3B-PB-O2B
39	SB	501	GTP	PG-O3B-PB-O2B
39	SE	501	GTP	PG-O3B-PB-O2B
39	SE	501	GTP	PB-O3A-PA-O2A
39	SG	501	GTP	PG-O3B-PB-O2B
39	SG	501	GTP	PB-O3A-PA-O1A
39	SI	501	GTP	PG-O3B-PB-O2B
39	SK	501	GTP	PG-O3B-PB-O1B
39	SM	501	GTP	PG-O3B-PB-O2B
39	TB	501	GTP	PG-O3B-PB-O1B
39	TB	501	GTP	PG-O3B-PB-O2B
39	TF	501	GTP	PG-O3B-PB-O2B
39	TH	501	GTP	PG-O3B-PB-O2B
39	TI	501	GTP	PG-O3B-PB-O2B
39	TM	501	GTP	PG-O3B-PB-O2B
39	TN	501	GTP	PG-O3B-PB-O1B
39	TN	501	GTP	PG-O3B-PB-O2B
39	UA	501	GTP	PG-O3B-PB-O2B
39	UA	501	GTP	PB-O3A-PA-O2A
39	UE	501	GTP	PG-O3B-PB-O2B
39	UE	501	GTP	PB-O3A-PA-O2A
39	UG	501	GTP	PB-O3A-PA-O1A

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Mol	Chain	Res	Type	Atoms
39	UJ	501	GTP	PG-O3B-PB-O2B
39	UK	501	GTP	PB-O3A-PA-O2A
39	VA	501	GTP	PB-O3A-PA-O2A
39	VC	501	GTP	PG-O3B-PB-O1B
39	VD	501	GTP	PG-O3B-PB-O2B
39	VF	501	GTP	PG-O3B-PB-O2B
39	VH	501	GTP	PG-O3B-PB-O2B
39	VI	501	GTP	PB-O3A-PA-O1A
39	VJ	501	GTP	PG-O3B-PB-O2B
39	WB	501	GTP	PG-O3B-PB-O1B
39	WB	501	GTP	PG-O3B-PB-O2B
39	WE	501	GTP	PG-O3B-PB-O2B
39	WF	501	GTP	PG-O3B-PB-O2B
39	WG	501	GTP	PG-O3B-PB-O2B
39	WH	501	GTP	PG-O3B-PB-O1B
39	WK	501	GTP	PA-O3A-PB-O2B
39	JF	501	GTP	C3'-C4'-C5'-O5'
39	QB	501	GTP	O4'-C4'-C5'-O5'
39	QH	501	GTP	C3'-C4'-C5'-O5'
39	CF	501	GTP	PG-O3B-PB-O3A
39	DD	501	GTP	PG-O3B-PB-O3A
39	EE	501	GTP	PG-O3B-PB-O3A
39	FJ	501	GTP	PG-O3B-PB-O3A
39	FL	501	GTP	PG-O3B-PB-O3A
39	GI	501	GTP	PG-O3B-PB-O3A
39	GJ	501	GTP	PG-O3B-PB-O3A
39	OL	501	GTP	PG-O3B-PB-O3A
39	RG	501	GTP	PG-O3B-PB-O3A
39	TG	501	GTP	PG-O3B-PB-O3A
39	TL	501	GTP	PG-O3B-PB-O3A

There are no ring outliers.

279 monomers are involved in 1780 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
39	MB	501	GTP	8	0
39	RB	501	GTP	7	0
39	QF	501	GTP	6	0
39	EA	501	GTP	4	0
39	IH	501	GTP	6	0
39	JF	501	GTP	5	0
39	DB	501	GTP	6	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
39	AB	501	GTP	7	0
39	FH	501	GTP	7	0
39	BB	501	GTP	7	0
39	OB	501	GTP	8	0
39	OE	501	GTP	4	0
39	CB	501	GTP	6	0
39	GA	501	GTP	5	0
39	HJ	501	GTP	7	0
39	HL	501	GTP	6	0
39	VI	501	GTP	8	0
39	DJ	501	GTP	6	0
39	BK	501	GTP	9	0
39	FF	501	GTP	6	0
39	KK	501	GTP	3	0
39	LE	501	GTP	2	0
39	JC	501	GTP	4	0
39	QJ	501	GTP	7	0
39	RK	501	GTP	8	0
39	SJ	501	GTP	7	0
39	UF	501	GTP	9	0
39	LA	501	GTP	5	0
39	VA	501	GTP	3	0
39	WF	501	GTP	8	0
39	RD	501	GTP	9	0
39	SK	501	GTP	6	0
39	CH	501	GTP	6	0
39	KJ	501	GTP	7	0
39	TG	501	GTP	5	0
39	FC	501	GTP	7	0
39	TF	501	GTP	6	0
39	FG	501	GTP	6	0
39	KA	501	GTP	5	0
39	JG	501	GTP	3	0
39	SI	501	GTP	7	0
39	IL	501	GTP	4	0
39	PA	501	GTP	7	0
39	TJ	501	GTP	10	0
39	TL	501	GTP	5	0
39	EL	501	GTP	6	0
39	VL	501	GTP	8	0
39	KL	501	GTP	9	0
39	LD	501	GTP	6	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
39	UG	501	GTP	6	0
39	CI	501	GTP	4	0
39	JJ	501	GTP	8	0
39	ND	501	GTP	4	0
39	UA	501	GTP	3	0
39	TC	501	GTP	7	0
39	MK	501	GTP	5	0
39	AK	501	GTP	8	0
39	IG	501	GTP	9	0
39	ML	501	GTP	9	0
39	KD	501	GTP	9	0
39	GL	501	GTP	8	0
39	GJ	501	GTP	7	0
39	OH	501	GTP	7	0
39	JD	501	GTP	7	0
39	CL	501	GTP	3	0
39	EE	501	GTP	10	0
39	QB	501	GTP	9	0
39	SE	501	GTP	5	0
39	WJ	501	GTP	7	0
39	LF	501	GTP	8	0
39	TI	501	GTP	6	0
39	DD	501	GTP	4	0
39	DE	501	GTP	6	0
39	NI	501	GTP	11	0
39	PC	501	GTP	5	0
39	GH	501	GTP	9	0
39	SC	501	GTP	5	0
39	LC	501	GTP	6	0
39	IA	501	GTP	6	0
39	CM	501	GTP	6	0
39	PK	501	GTP	2	0
39	FK	501	GTP	12	0
39	HH	501	GTP	9	0
39	LL	501	GTP	8	0
39	OA	501	GTP	5	0
39	UK	501	GTP	9	0
39	PB	501	GTP	9	0
39	PE	501	GTP	7	0
39	RL	501	GTP	7	0
39	BI	501	GTP	4	0
39	RH	501	GTP	9	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
39	SF	501	GTP	6	0
39	CC	501	GTP	5	0
39	VG	501	GTP	7	0
39	IC	501	GTP	7	0
39	GE	501	GTP	5	0
39	OL	501	GTP	6	0
39	BC	501	GTP	5	0
39	UL	501	GTP	7	0
39	WK	501	GTP	1	0
39	FE	501	GTP	7	0
39	DF	501	GTP	7	0
39	JH	501	GTP	10	0
39	JE	501	GTP	4	0
39	DI	501	GTP	6	0
39	OI	501	GTP	6	0
39	PH	501	GTP	6	0
39	UB	501	GTP	7	0
39	WI	501	GTP	5	0
39	DH	501	GTP	7	0
39	SM	501	GTP	7	0
39	NC	501	GTP	6	0
39	OJ	501	GTP	7	0
39	MG	501	GTP	6	0
39	QL	501	GTP	7	0
39	PM	501	GTP	6	0
39	JB	501	GTP	7	0
39	NB	501	GTP	7	0
39	QD	502	GTP	6	0
39	IE	501	GTP	7	0
39	LK	501	GTP	4	0
39	HG	501	GTP	5	0
39	FD	501	GTP	8	0
39	LB	501	GTP	7	0
39	NJ	501	GTP	6	0
39	WB	501	GTP	7	0
39	HK	501	GTP	6	0
39	BD	501	GTP	7	0
39	JL	501	GTP	8	0
39	UI	501	GTP	7	0
39	FL	501	GTP	6	0
39	EK	501	GTP	5	0
39	KI	501	GTP	5	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
39	NF	501	GTP	8	0
39	QC	501	GTP	6	0
39	FB	501	GTP	8	0
39	LJ	501	GTP	8	0
39	CD	501	GTP	7	0
39	TM	501	GTP	4	0
39	IB	501	GTP	5	0
39	JI	501	GTP	10	0
39	OK	501	GTP	4	0
39	CJ	501	GTP	7	0
39	EF	501	GTP	3	0
39	PF	501	GTP	8	0
39	BG	501	GTP	4	0
39	EH	501	GTP	8	0
39	BF	501	GTP	9	0
39	AL	501	GTP	8	0
39	LI	501	GTP	3	0
39	KE	501	GTP	8	0
39	MC	501	GTP	9	0
39	WE	501	GTP	7	0
39	GI	501	GTP	5	0
39	TE	501	GTP	4	0
39	TN	501	GTP	7	0
39	TH	501	GTP	6	0
39	GF	501	GTP	7	0
39	AI	501	GTP	4	0
39	VH	501	GTP	9	0
39	EI	501	GTP	10	0
39	UC	501	GTP	5	0
39	CF	501	GTP	11	0
39	IF	501	GTP	8	0
39	IJ	501	GTP	10	0
39	II	501	GTP	4	0
39	TK	501	GTP	2	0
39	WD	501	GTP	10	0
39	RI	501	GTP	4	0
39	BJ	501	GTP	1	0
39	QL	502	GTP	3	0
39	TB	501	GTP	7	0
39	KB	501	GTP	6	0
39	RF	501	GTP	7	0
39	RJ	501	GTP	8	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
39	NA	501	GTP	3	0
39	EJ	501	GTP	8	0
39	MD	501	GTP	4	0
39	OG	501	GTP	6	0
39	QD	501	GTP	8	0
39	VJ	501	GTP	7	0
39	BL	501	GTP	9	0
39	DC	501	GTP	9	0
39	VD	501	GTP	8	0
39	CE	501	GTP	7	0
39	FA	501	GTP	6	0
39	WL	501	GTP	9	0
39	IK	501	GTP	3	0
39	VF	501	GTP	9	0
39	NG	501	GTP	5	0
39	AF	501	GTP	10	0
39	SG	501	GTP	7	0
39	AE	501	GTP	5	0
39	GC	501	GTP	9	0
39	NL	501	GTP	5	0
39	KF	501	GTP	6	0
39	PI	501	GTP	5	0
39	MD	502	GTP	5	0
39	NH	501	GTP	10	0
39	HB	501	GTP	7	0
39	BE	501	GTP	7	0
39	CK	501	GTP	7	0
39	DL	501	GTP	7	0
39	EB	501	GTP	9	0
39	EC	501	GTP	8	0
39	KC	501	GTP	6	0
39	OC	501	GTP	4	0
39	QI	501	GTP	4	0
39	UH	501	GTP	7	0
39	VK	501	GTP	2	0
39	WG	501	GTP	7	0
39	AH	501	GTP	6	0
39	BM	501	GTP	9	0
39	WC	501	GTP	6	0
39	FJ	501	GTP	6	0
39	SL	501	GTP	8	0
39	HD	501	GTP	7	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
39	HF	501	GTP	5	0
39	DK	501	GTP	6	0
39	IM	501	GTP	8	0
39	UE	501	GTP	5	0
39	EG	501	GTP	2	0
39	FI	501	GTP	5	0
39	OF	501	GTP	7	0
39	MJ	501	GTP	10	0
39	QK	501	GTP	6	0
39	VC	501	GTP	6	0
39	SD	501	GTP	7	0
39	PD	501	GTP	4	0
39	JK	501	GTP	5	0
39	GD	501	GTP	8	0
39	MI	501	GTP	8	0
39	MH	501	GTP	7	0
39	ED	501	GTP	4	0
39	DA	501	GTP	6	0
39	HA	501	GTP	5	0
39	LG	501	GTP	4	0
39	VE	501	GTP	6	0
39	WH	501	GTP	4	0
39	AD	501	GTP	6	0
39	PL	501	GTP	8	0
39	AG	501	GTP	6	0
39	WA	501	GTP	5	0
39	UJ	501	GTP	8	0
39	GK	501	GTP	7	0
39	QH	501	GTP	6	0
39	MM	501	GTP	6	0
39	RC	501	GTP	4	0
39	NK	501	GTP	5	0
39	SH	501	GTP	9	0
39	LH	501	GTP	8	0
39	MF	501	GTP	9	0
39	HI	501	GTP	3	0
39	RG	501	GTP	5	0
39	HE	501	GTP	5	0
39	AJ	501	GTP	7	0
39	ID	501	GTP	8	0
39	OD	501	GTP	6	0
39	AC	501	GTP	4	0

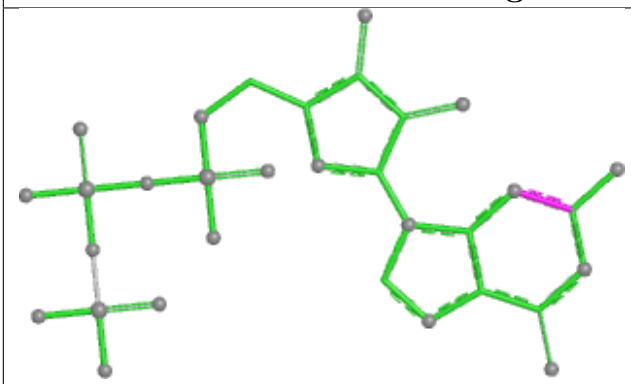
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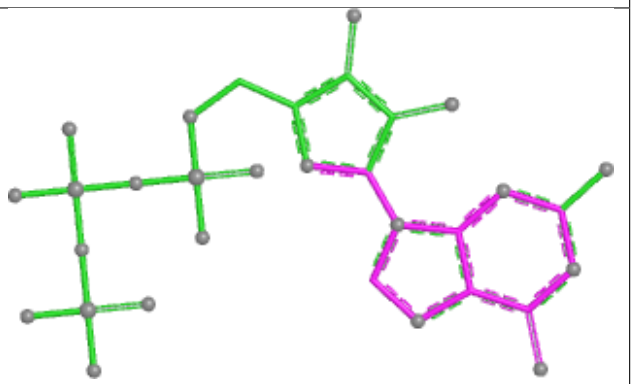
Mol	Chain	Res	Type	Clashes	Symm-Clashes
39	HC	501	GTP	2	0
39	KG	501	GTP	7	0
39	RE	501	GTP	5	0
39	NE	501	GTP	5	0
39	PJ	501	GTP	7	0
39	BH	501	GTP	9	0
39	RM	501	GTP	5	0
39	TD	501	GTP	7	0
39	UD	501	GTP	8	0
39	GB	501	GTP	9	0
39	QG	501	GTP	4	0
39	VB	501	GTP	7	0
39	CG	501	GTP	8	0
39	JA	501	GTP	3	0
39	PG	501	GTP	3	0
39	AM	501	GTP	5	0
39	DG	501	GTP	8	0
39	GG	501	GTP	6	0
39	KH	501	GTP	5	0
39	SB	501	GTP	7	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

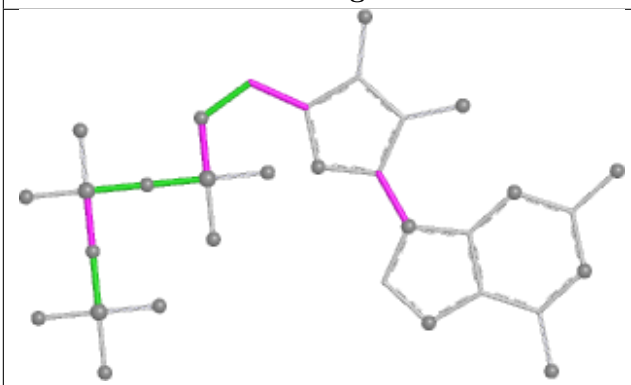
Ligand GTP MB 501



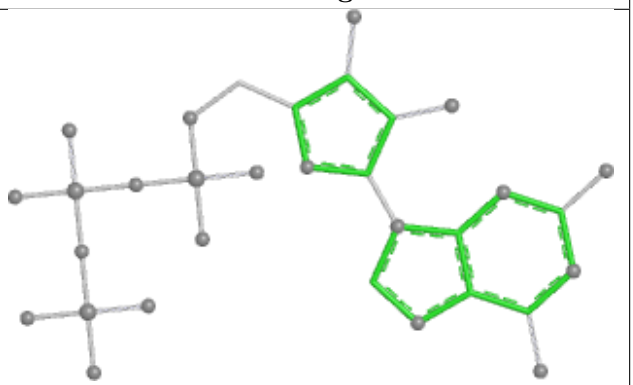
Bond lengths



Bond angles

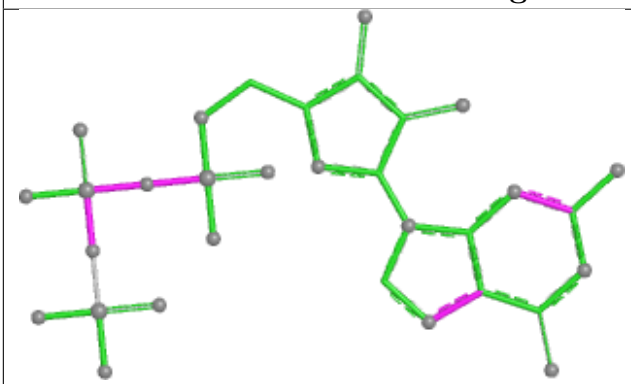


Torsions

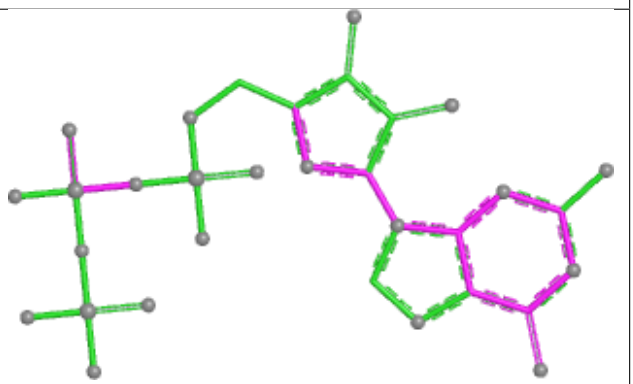


Rings

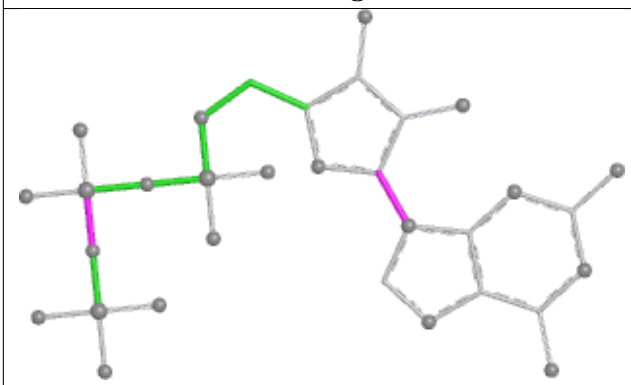
Ligand GTP RB 501



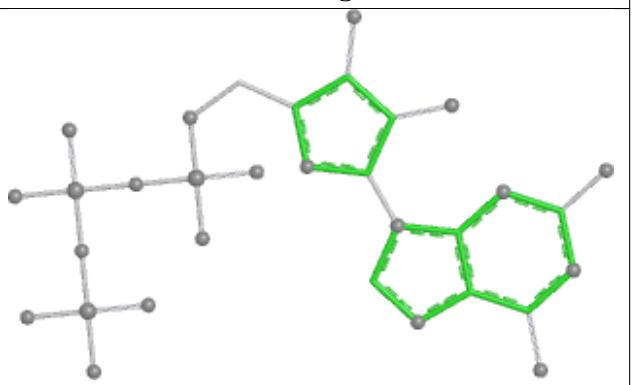
Bond lengths



Bond angles

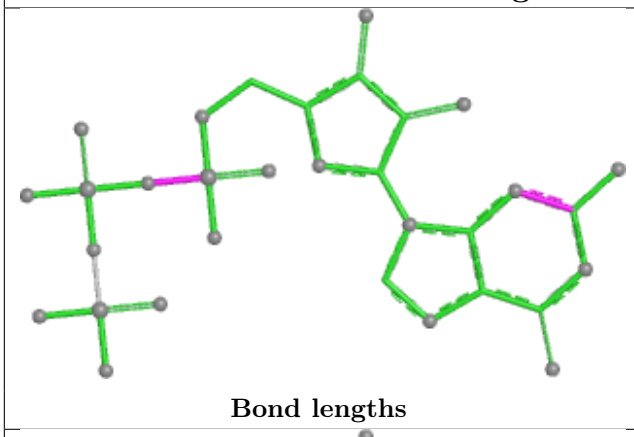


Torsions

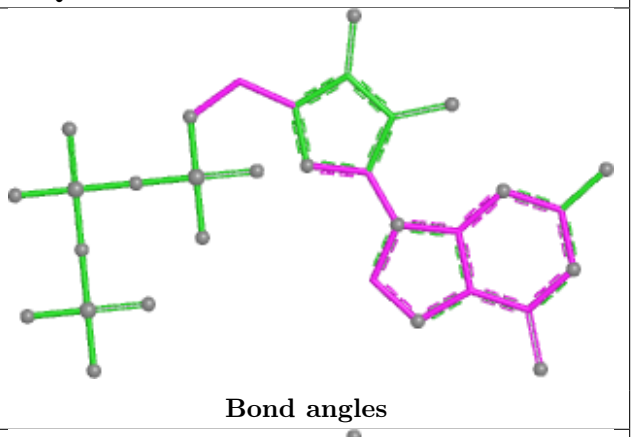


Rings

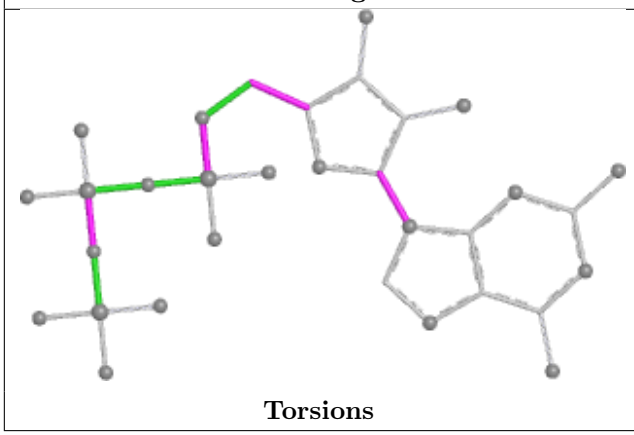
Ligand GTP QF 501



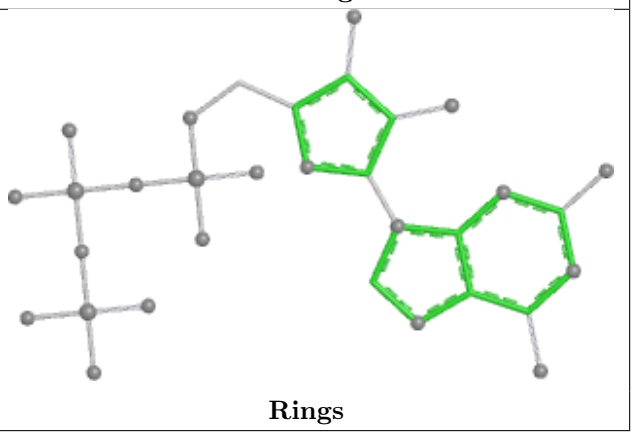
Bond lengths



Bond angles

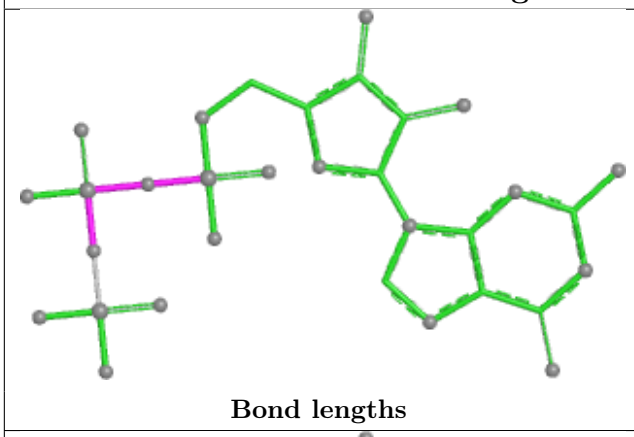


Torsions

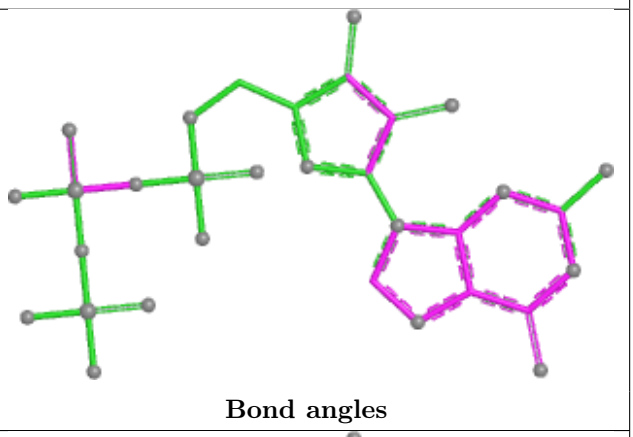


Rings

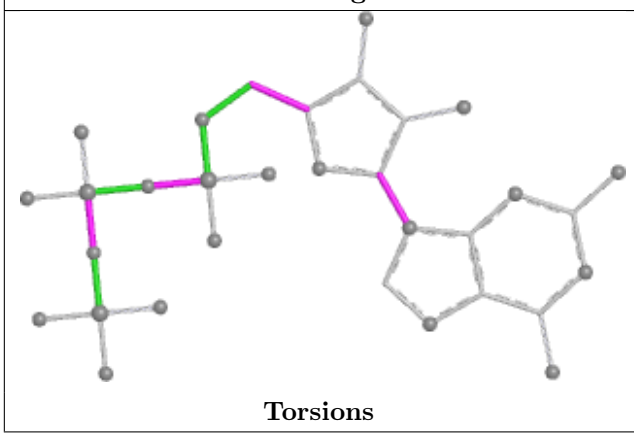
Ligand GTP EA 501



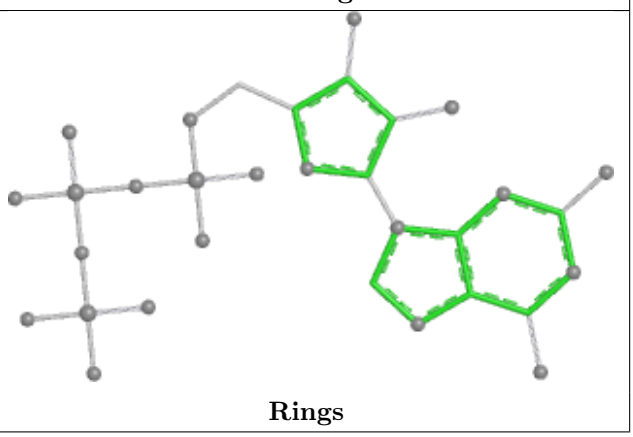
Bond lengths



Bond angles

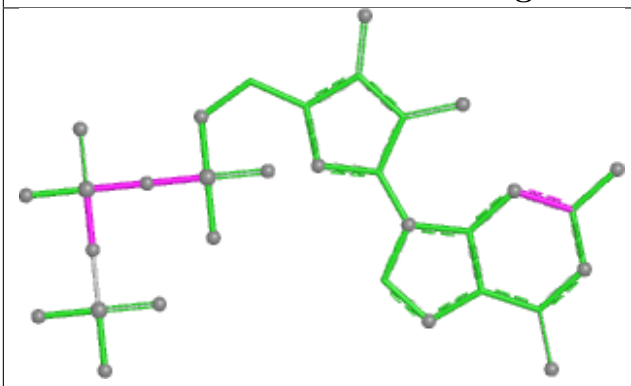


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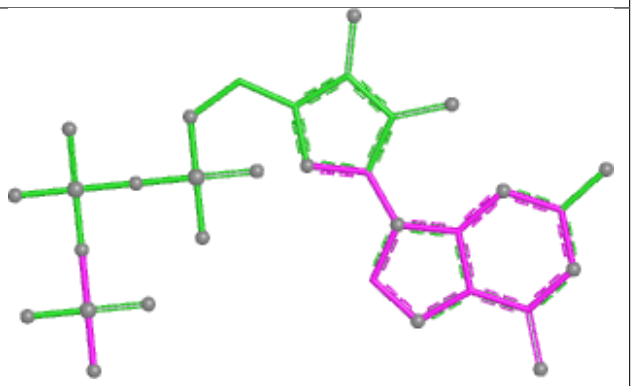


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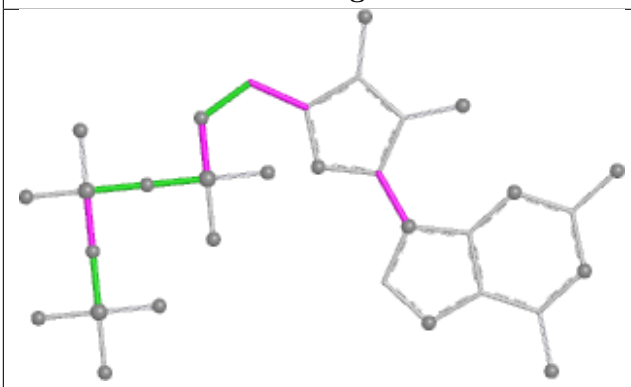
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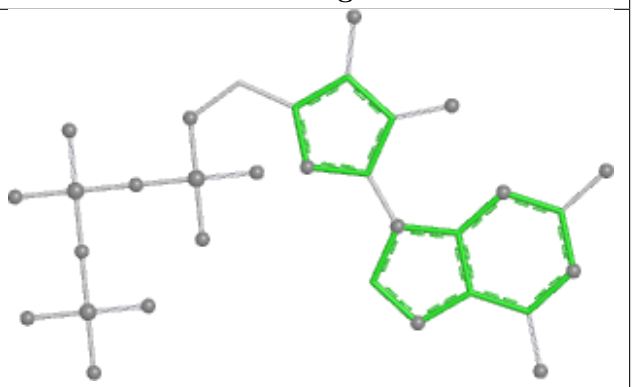
Bond lengths



Bond angles

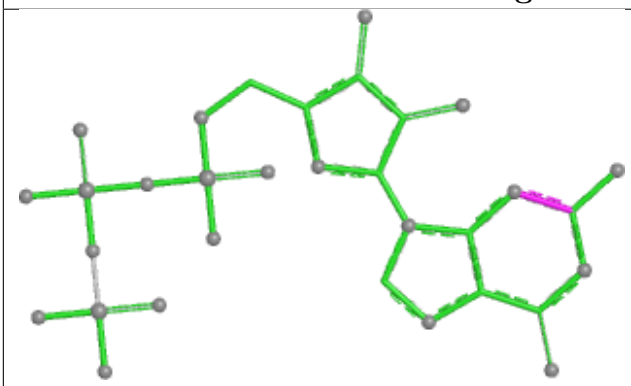


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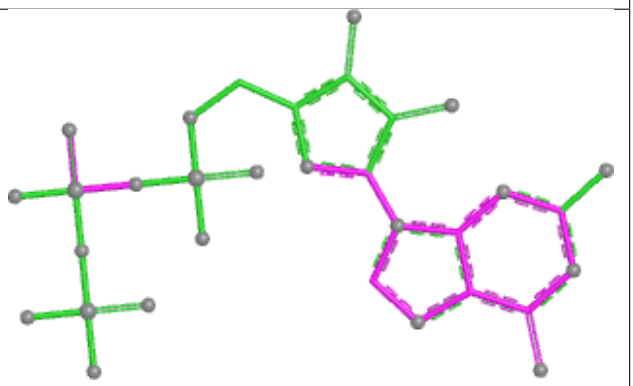


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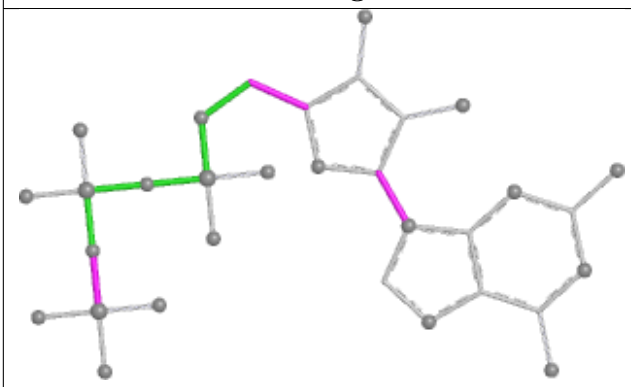
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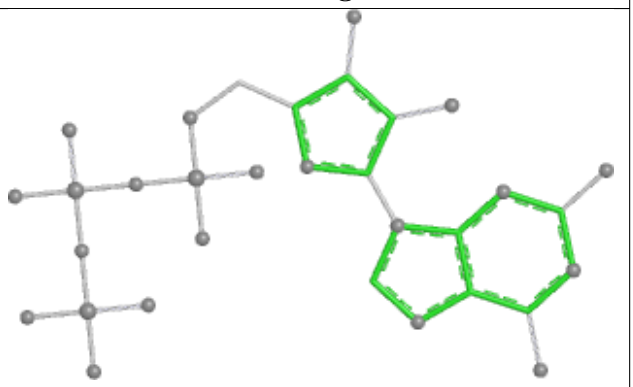
Bond lengths



Bond angles

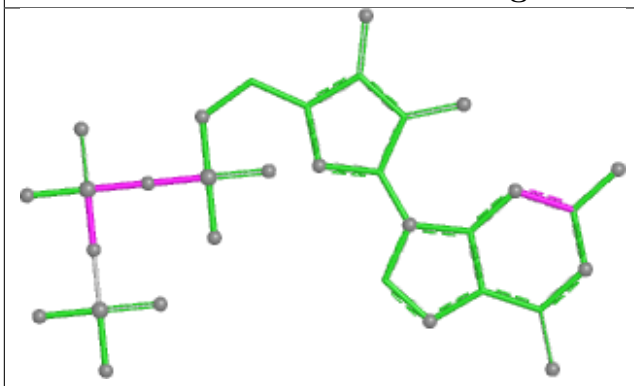


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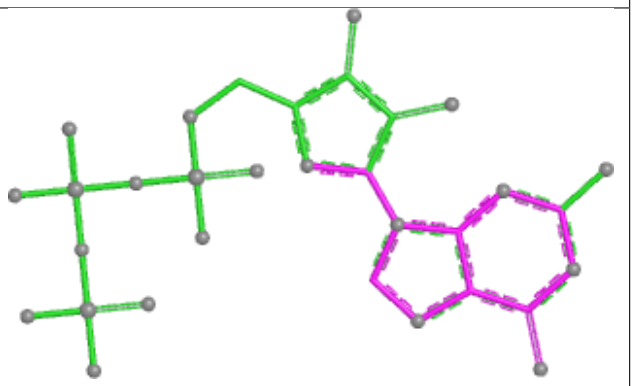


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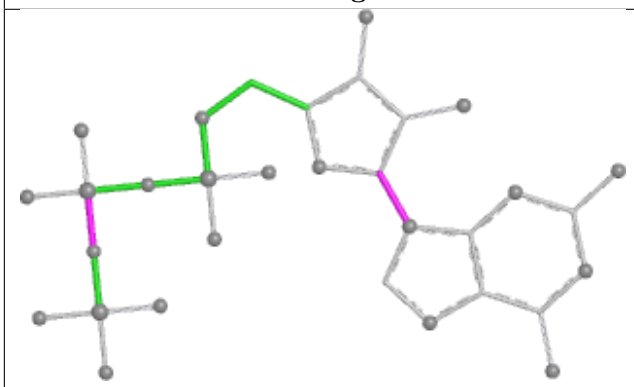
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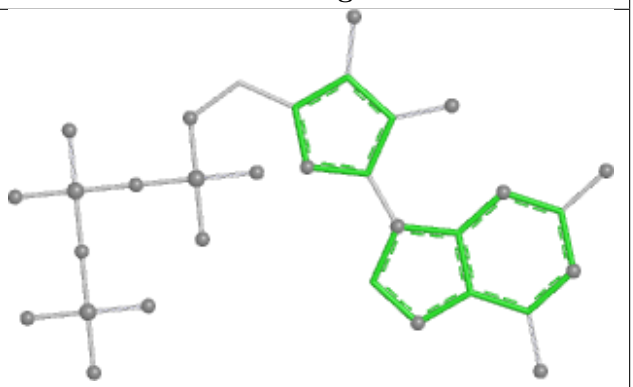
Bond lengths



Bond angles

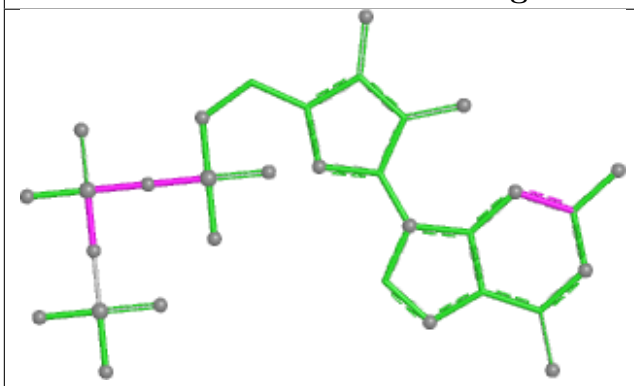


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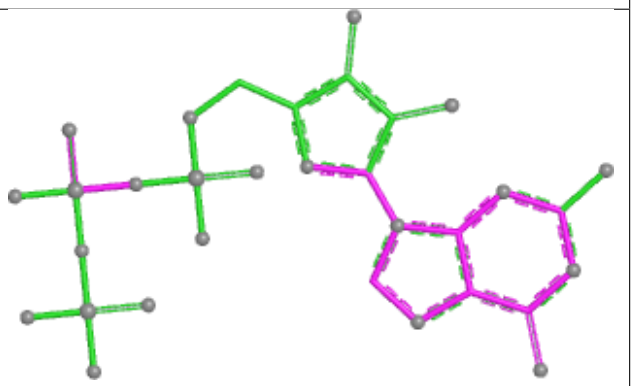


Rings

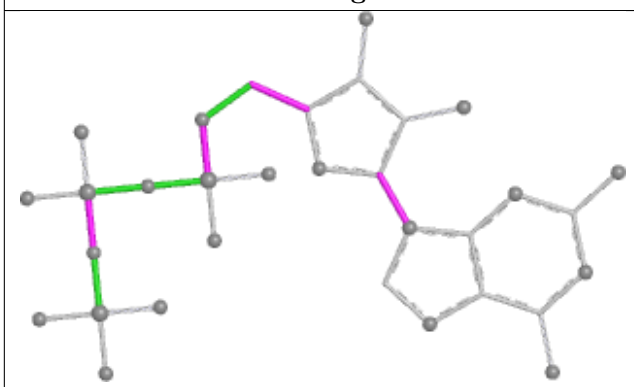
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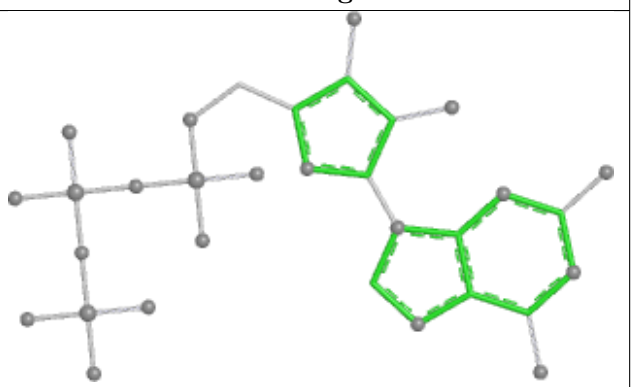
Bond lengths



Bond angles

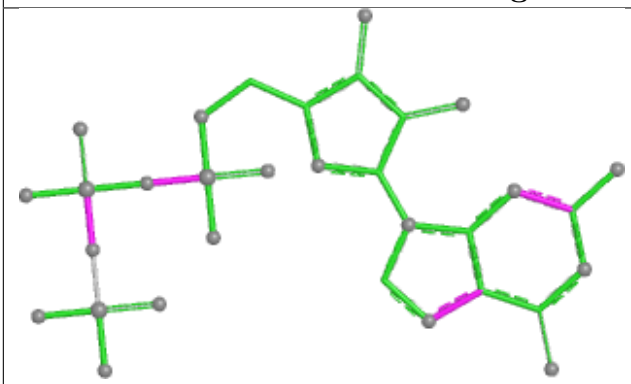


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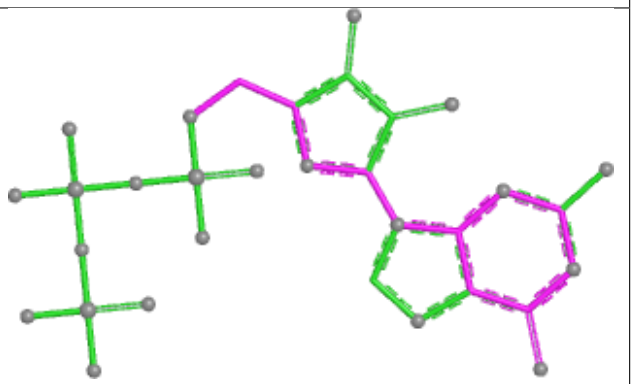


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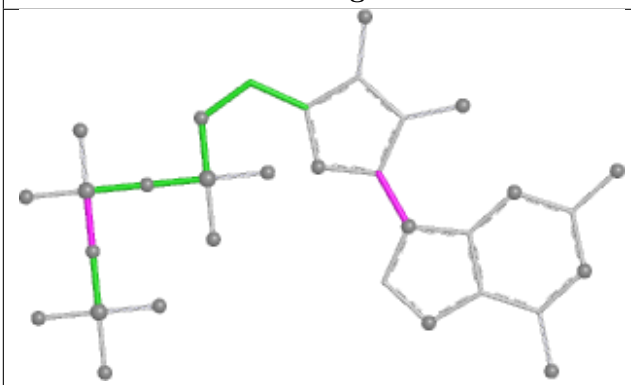
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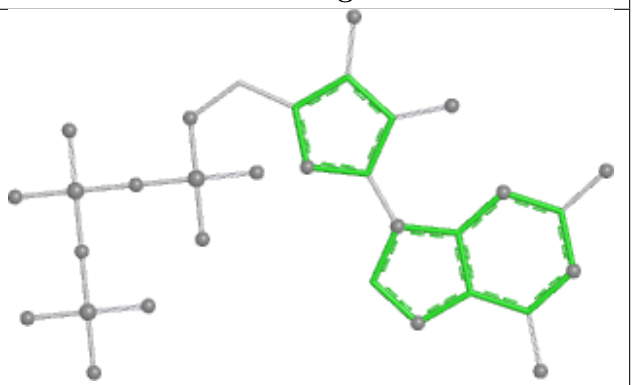
Bond lengths



Bond angles

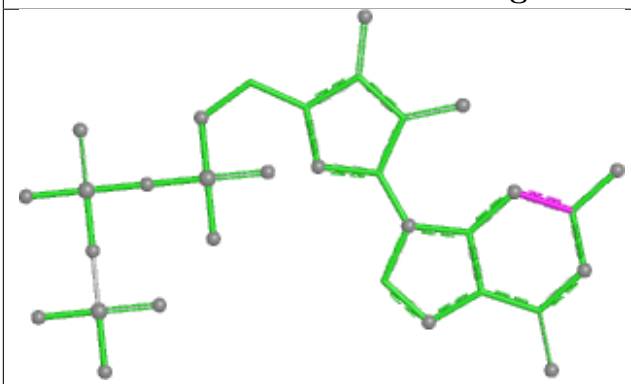


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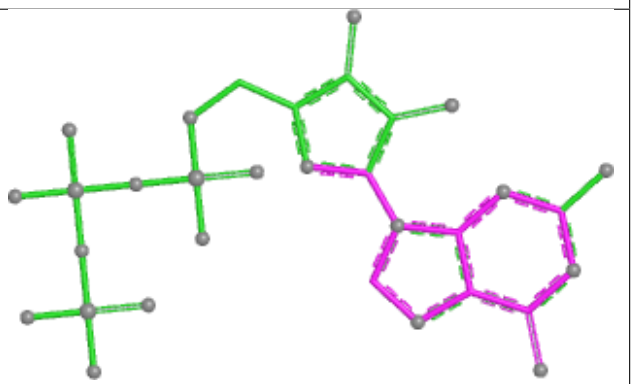


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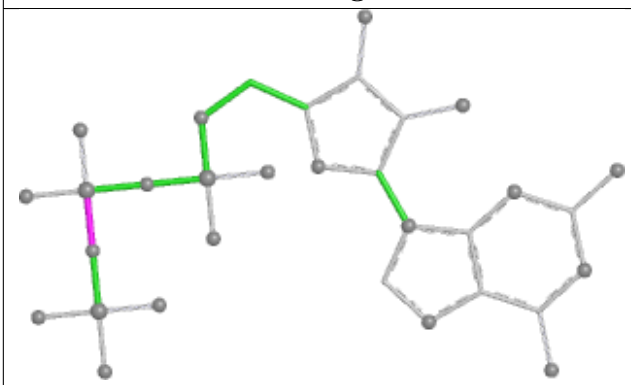
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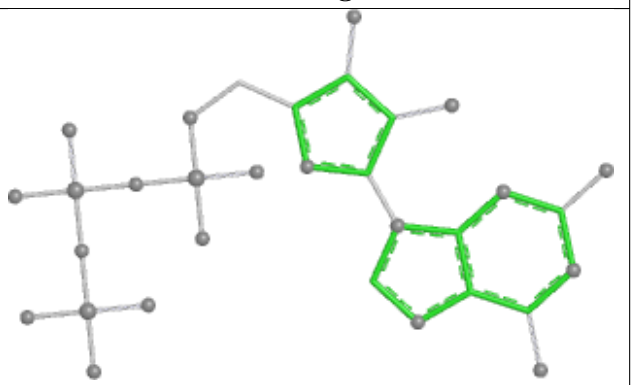
Bond lengths



Bond angles

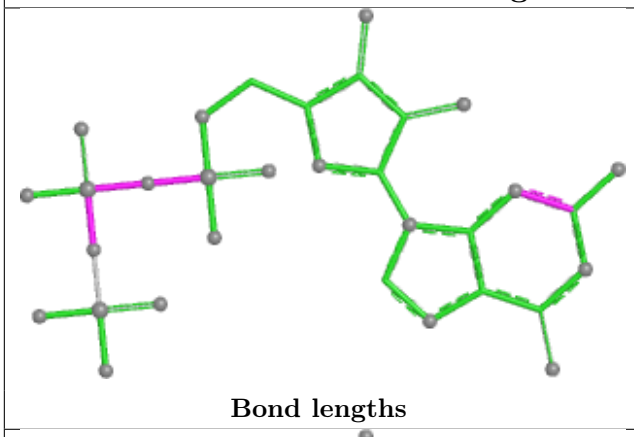


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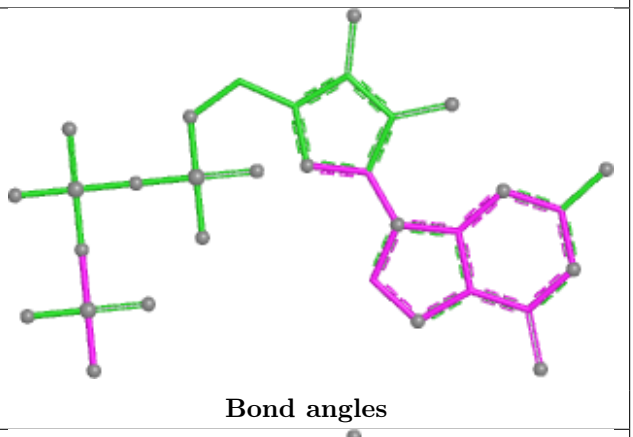


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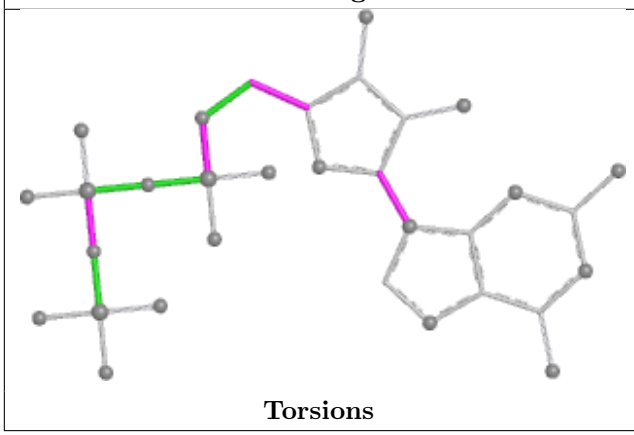
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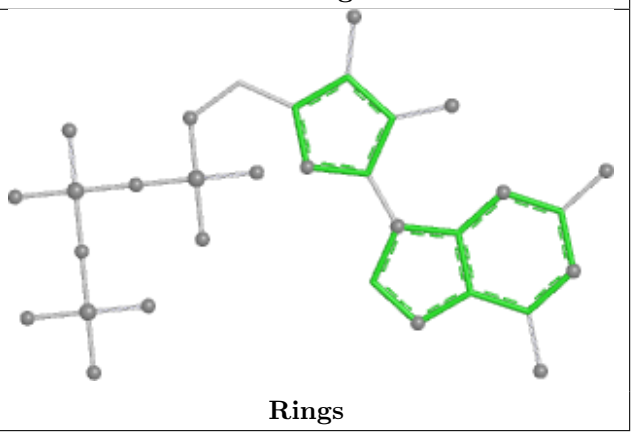
Bond lengths



Bond angles

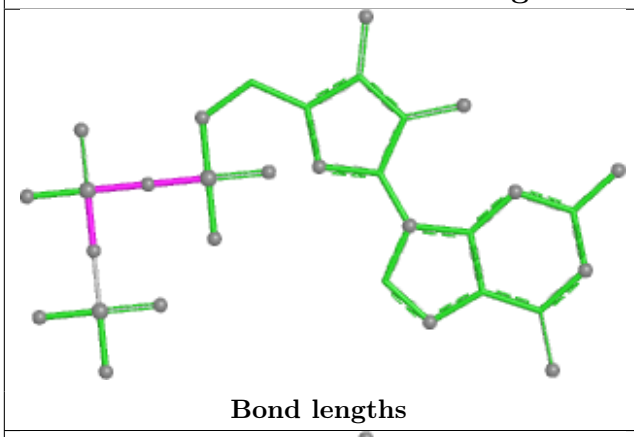


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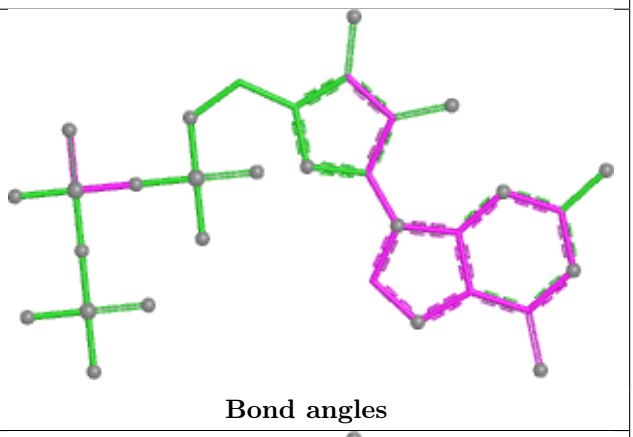


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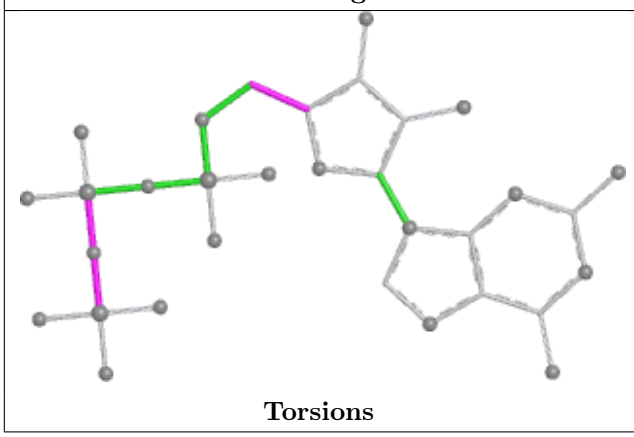
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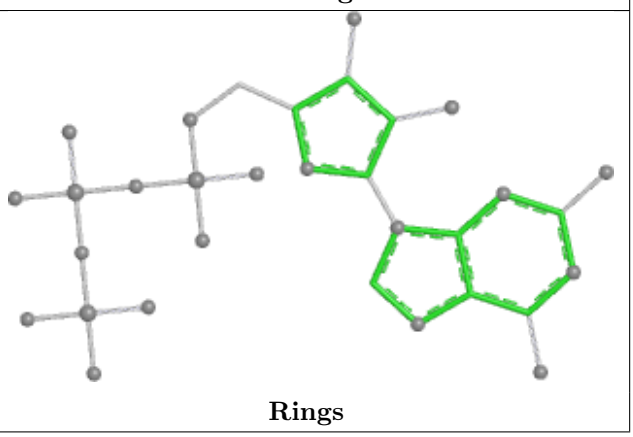
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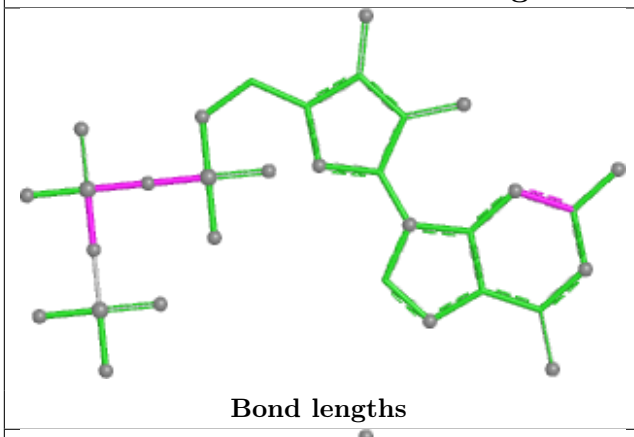


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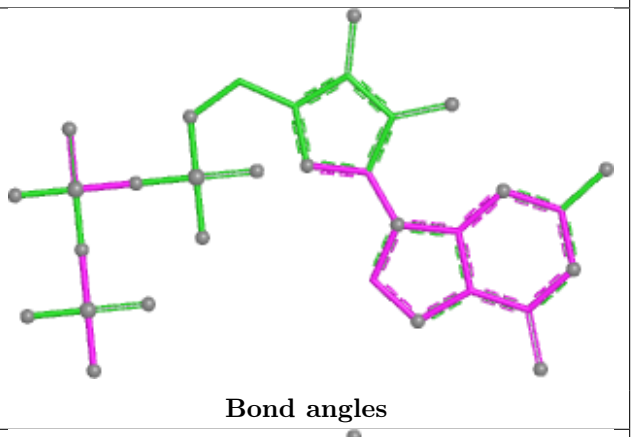


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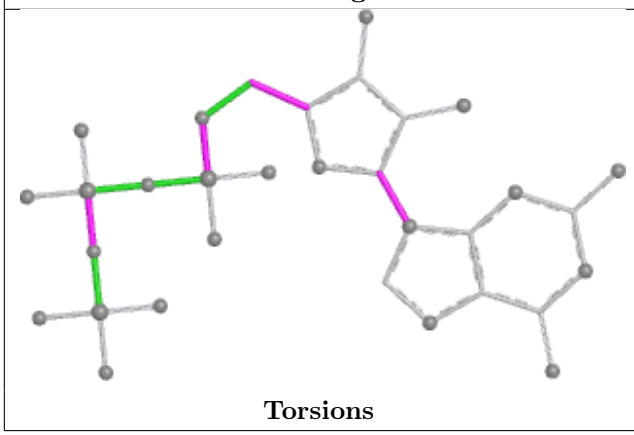
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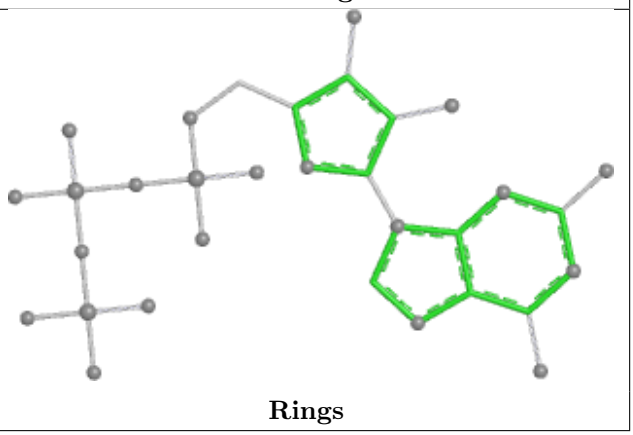
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Bond angles

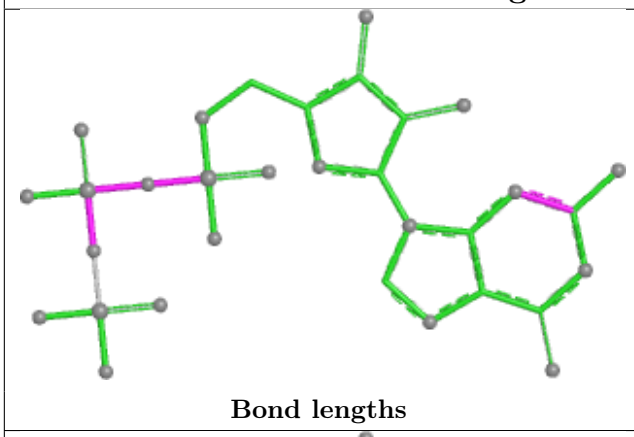


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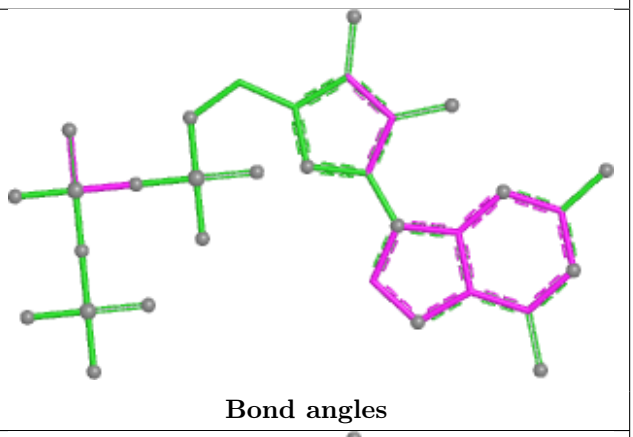


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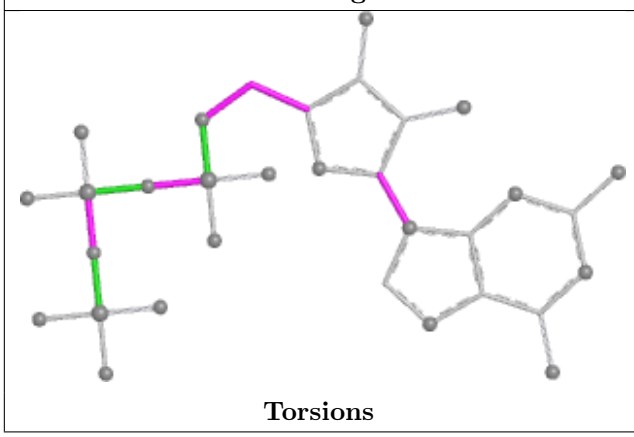
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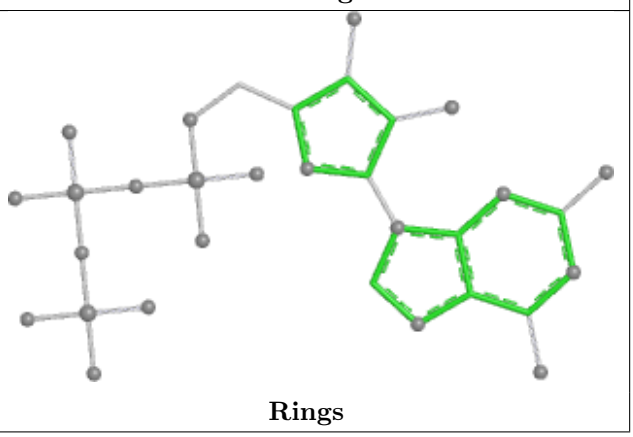
Bond lengths



Bond angles

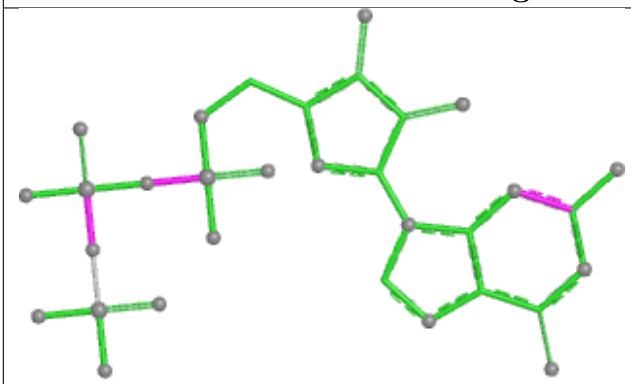


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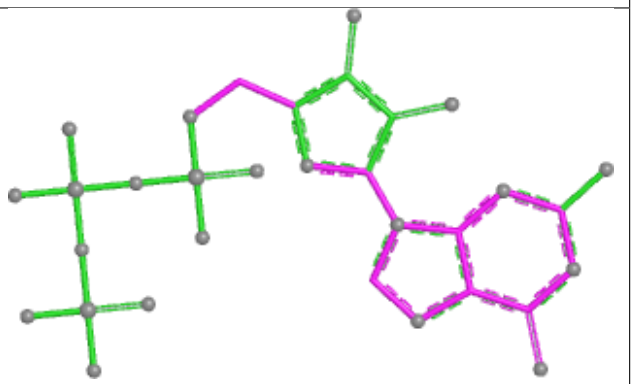


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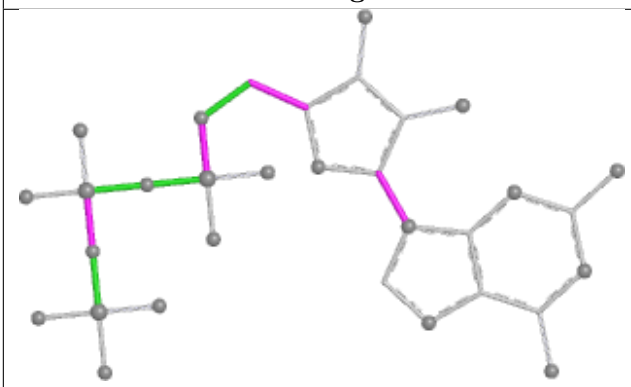
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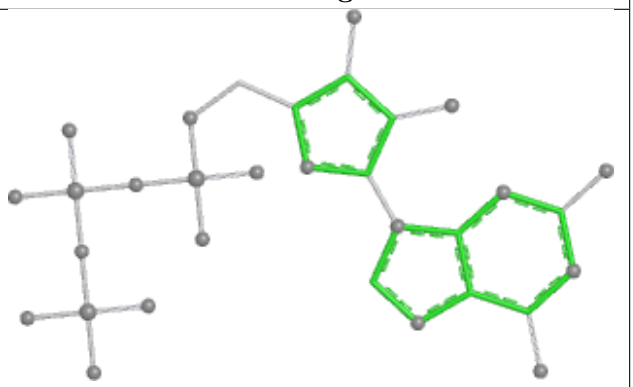
Bond lengths



Bond angles

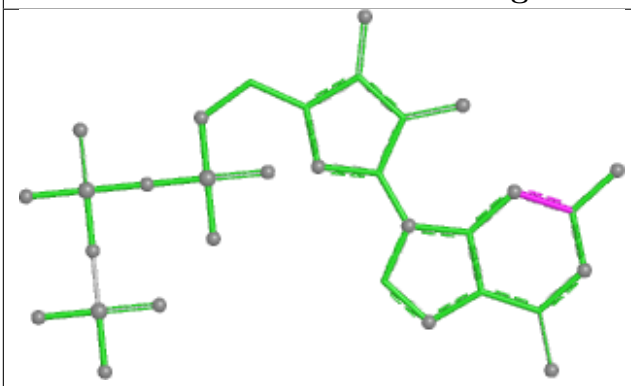


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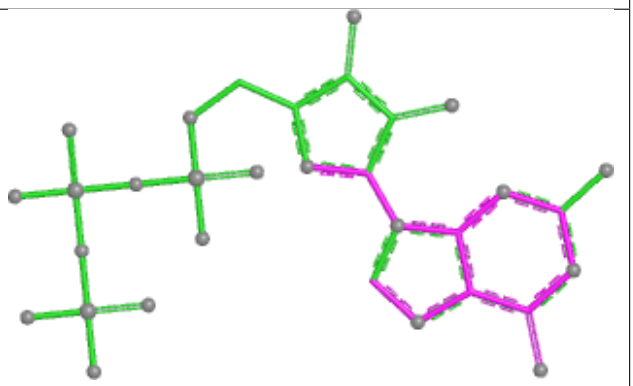


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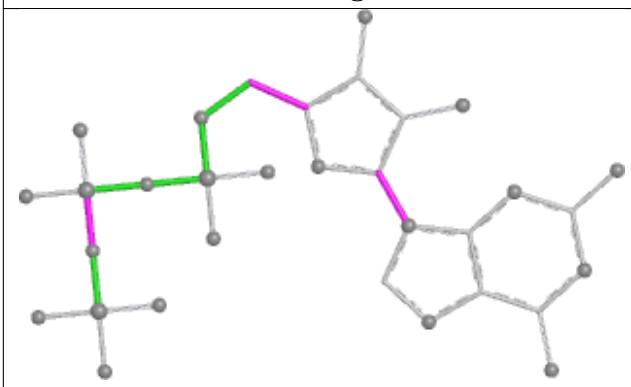
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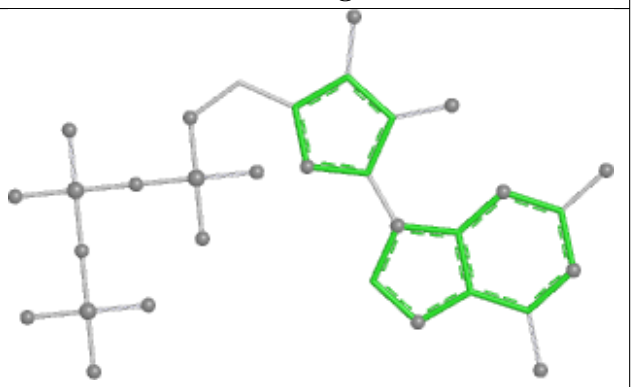
Bond lengths



Bond angles

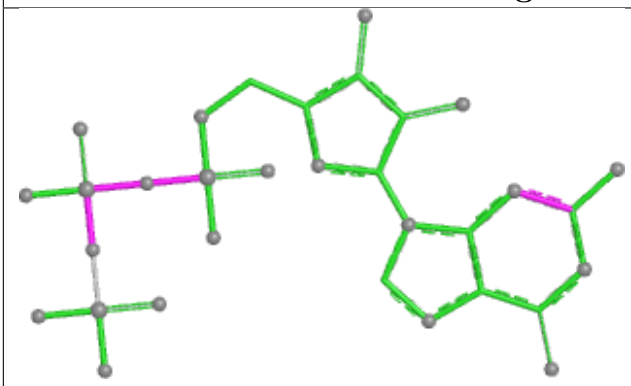


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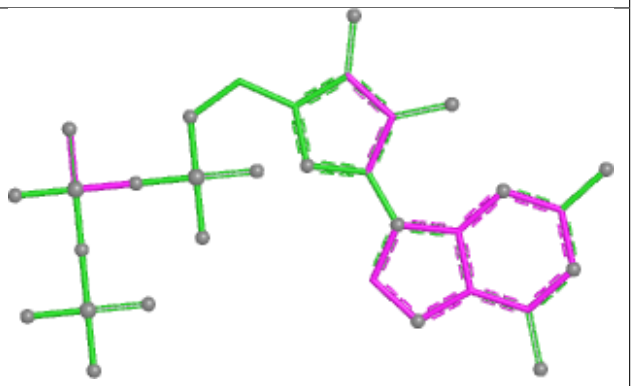


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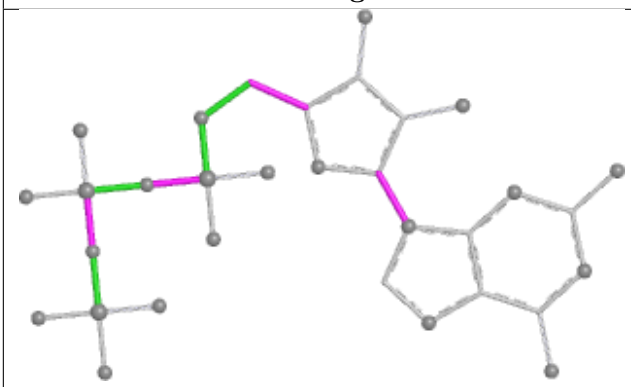
Ligand GTP VI 501



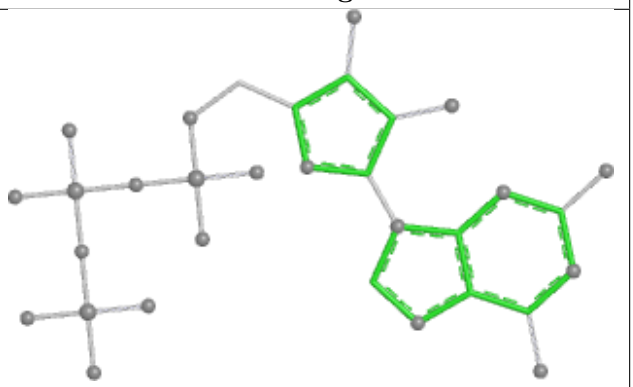
Bond lengths



Bond angles

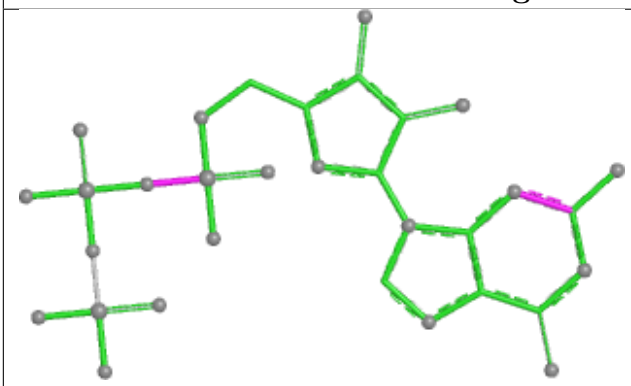


Torsions

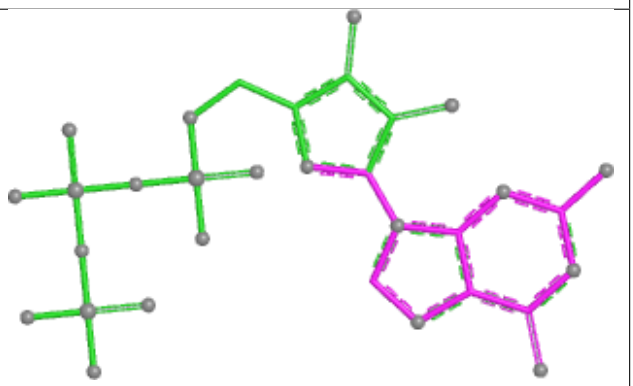


Rings

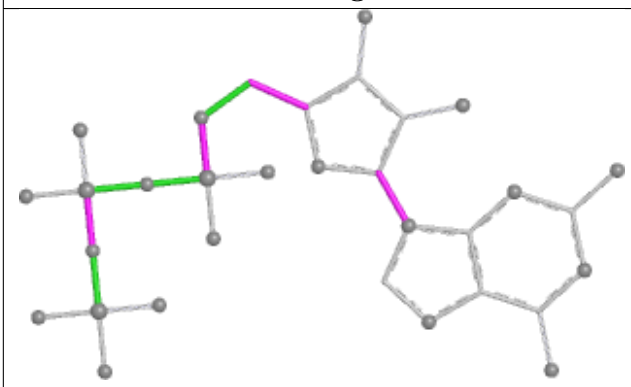
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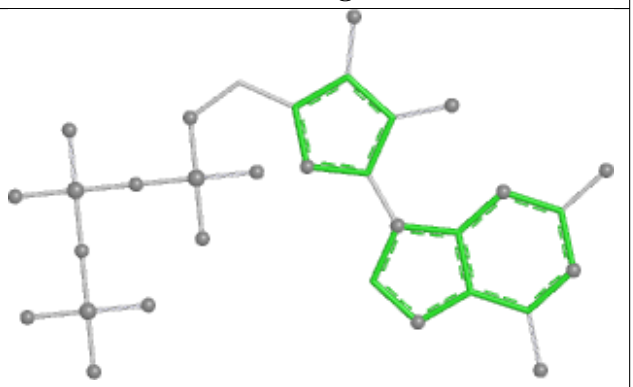
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Bond angles

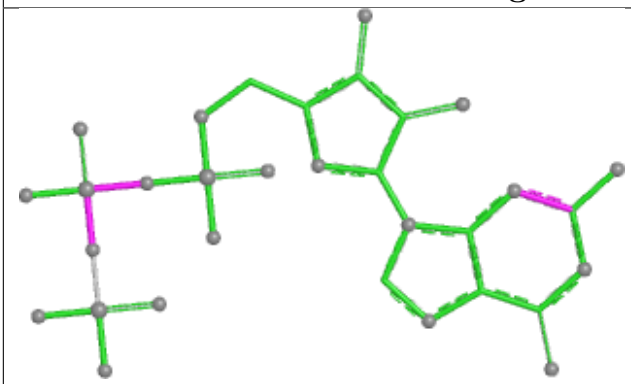


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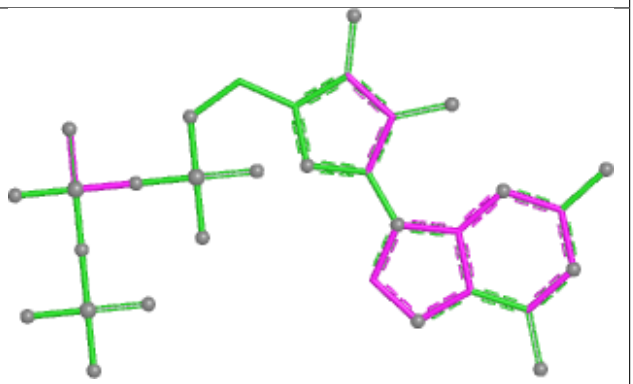


Rings

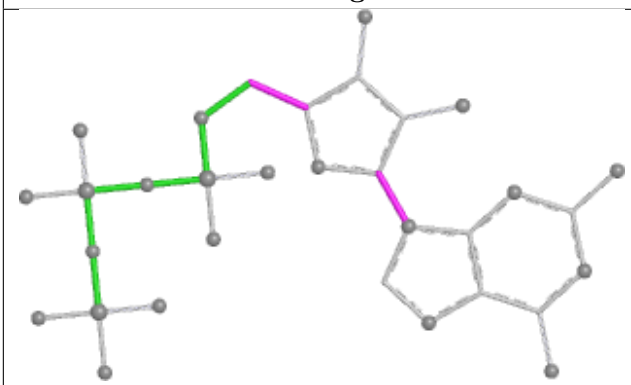
Ligand GTP BK 501



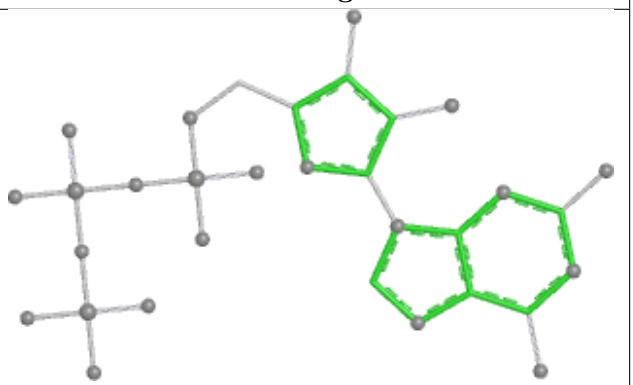
Bond lengths



Bond angles

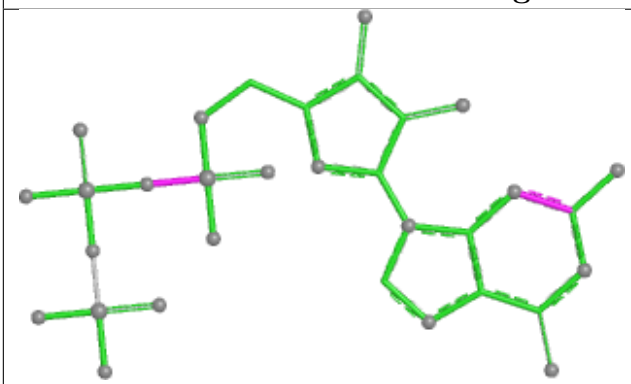


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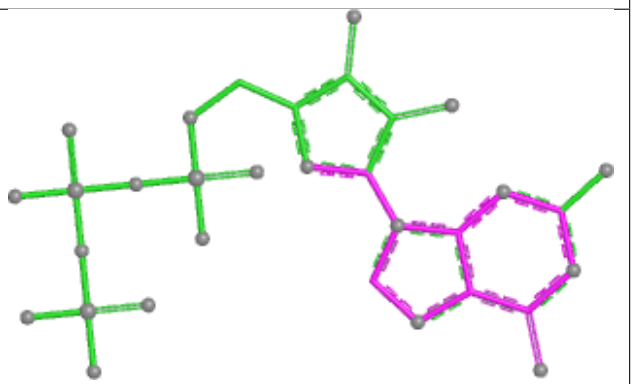


Rings

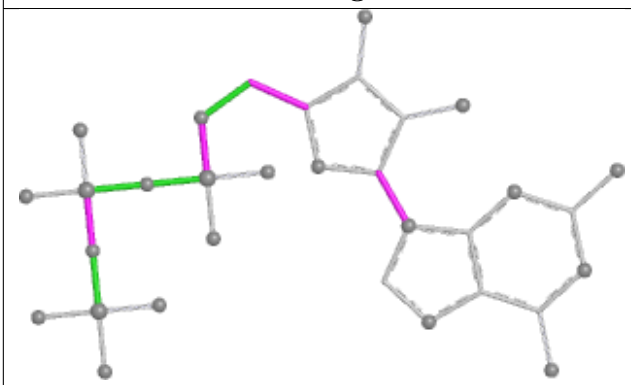
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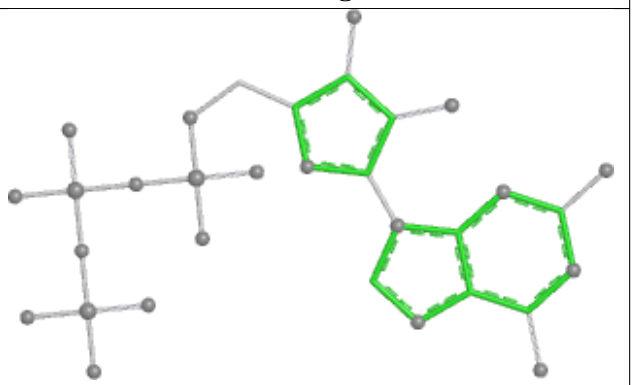
Bond lengths



Bond angles

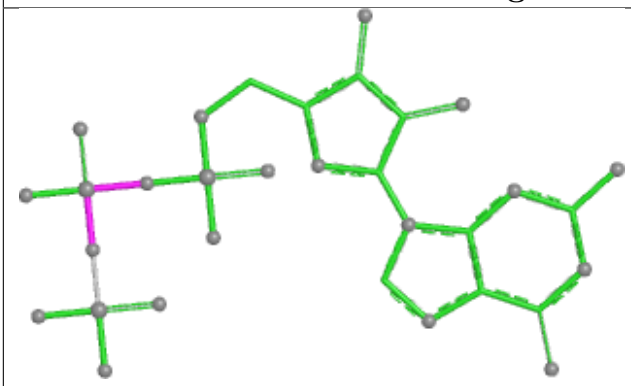


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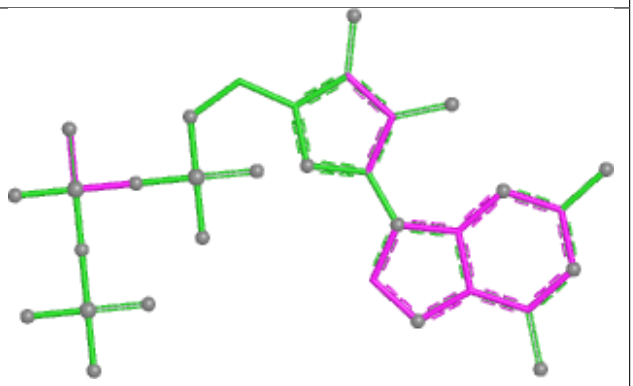


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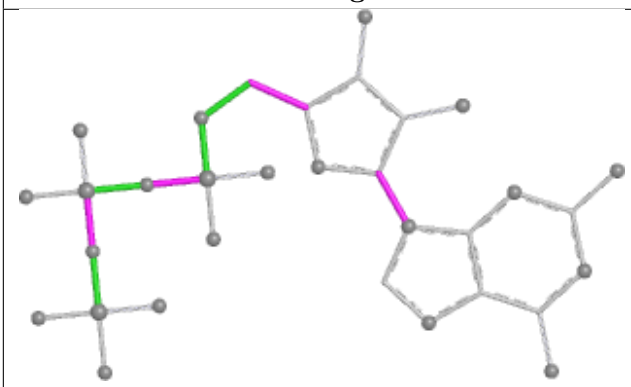
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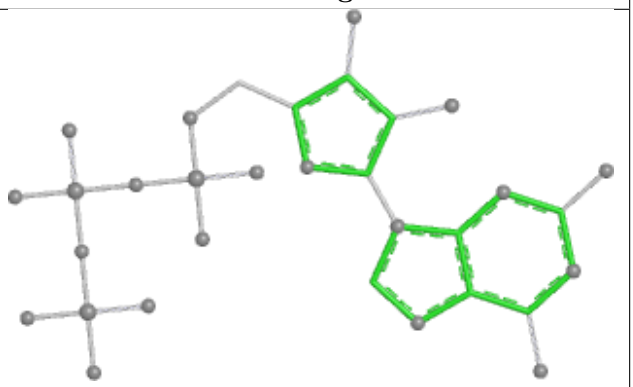
Bond lengths



Bond angles

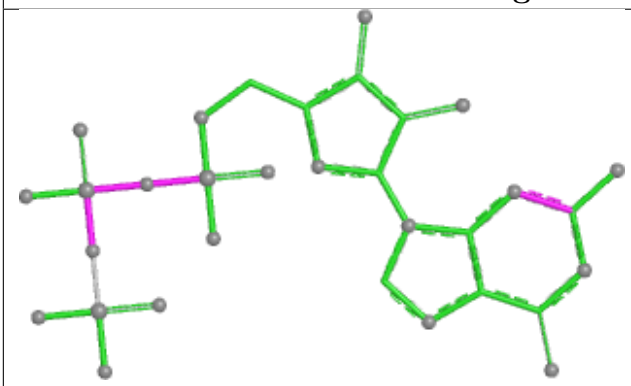


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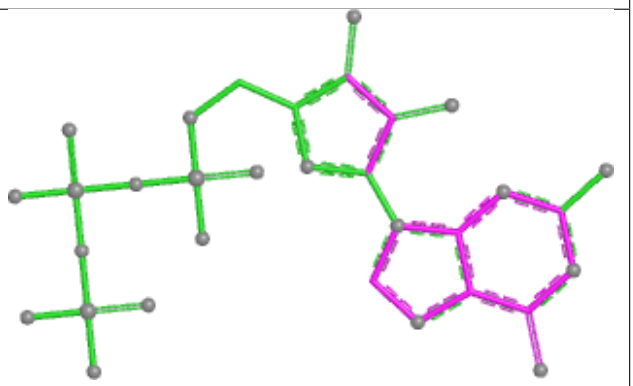


Rings

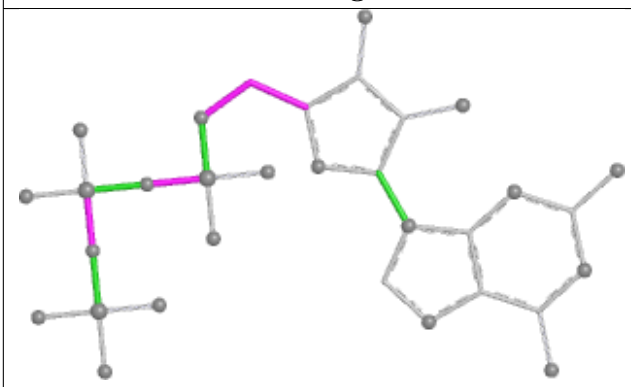
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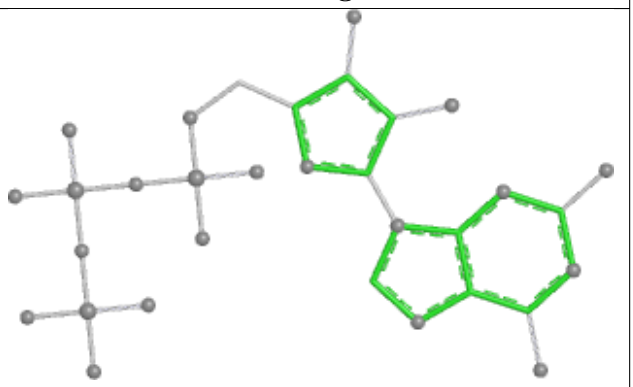
Bond lengths



Bond angles

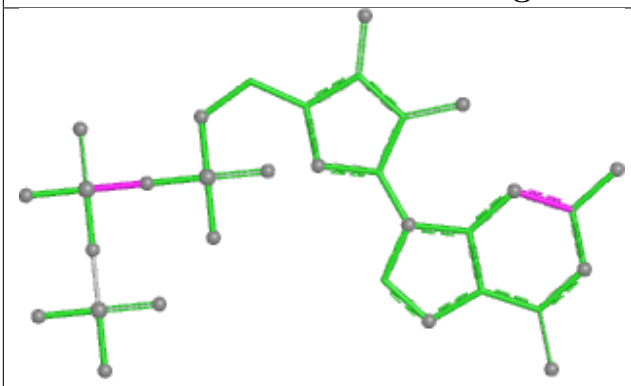


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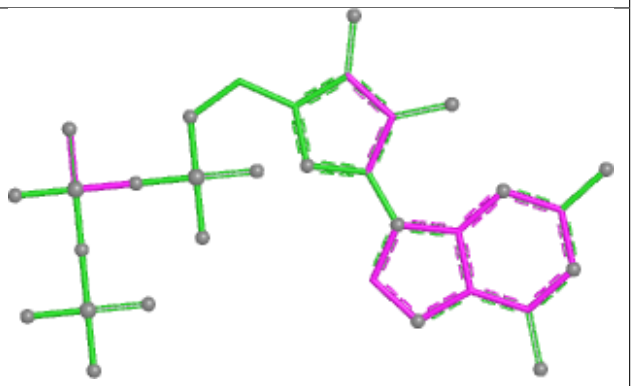


Rings

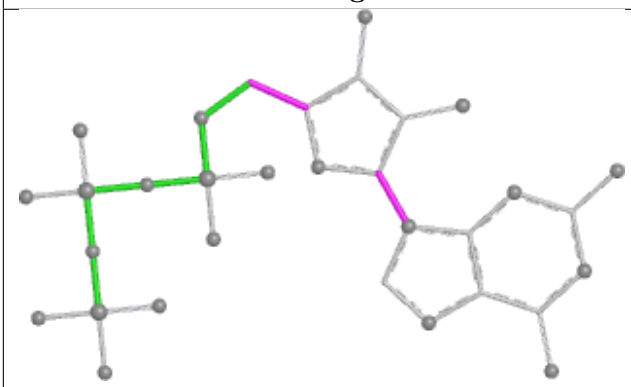
Ligand GTP JC 501



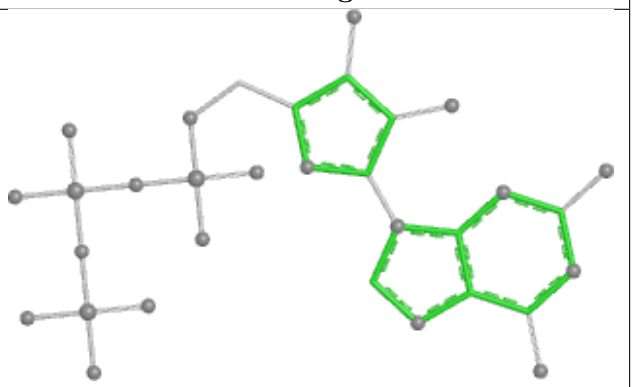
Bond lengths



Bond angles

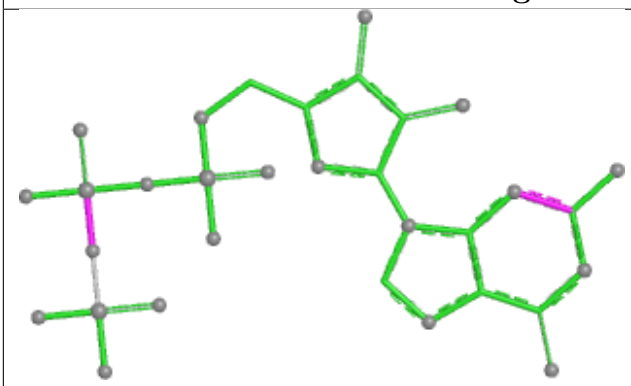


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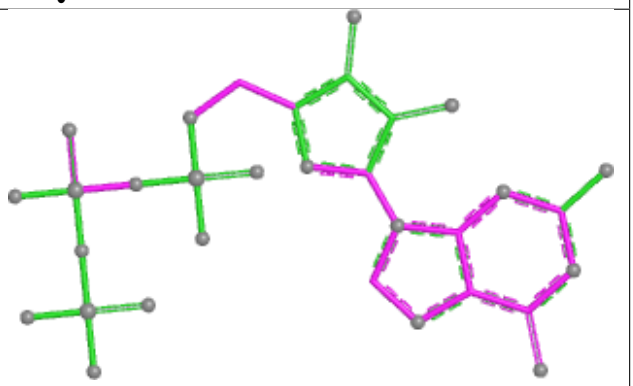


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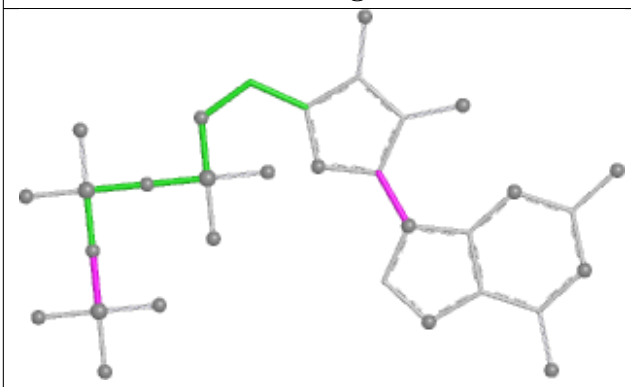
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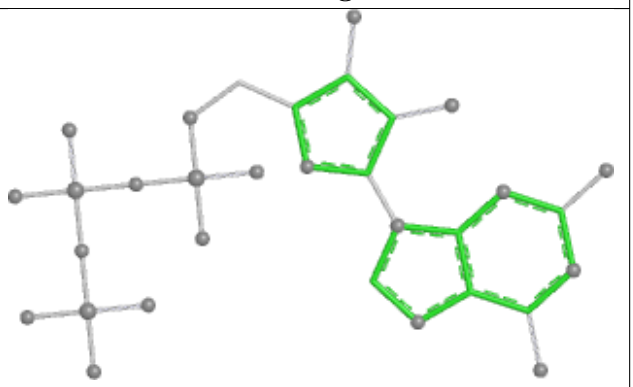
Bond lengths



Bond angles

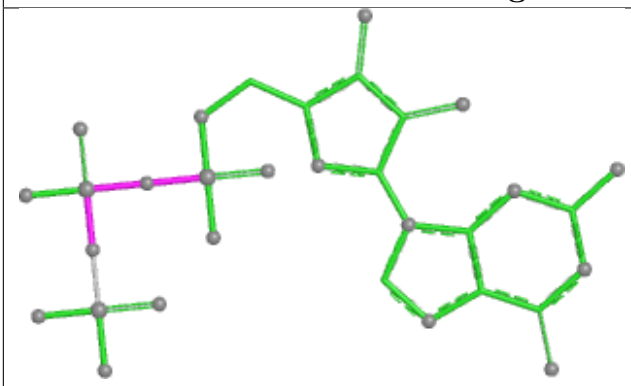


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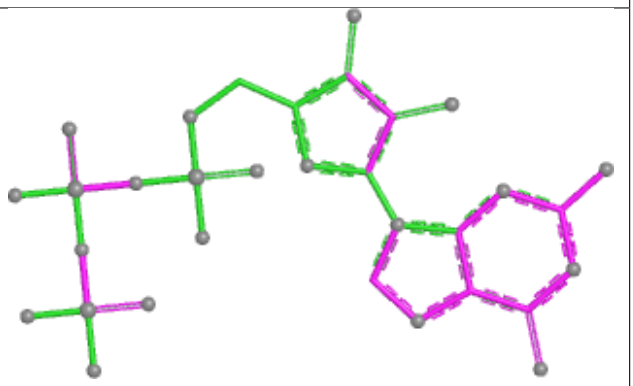


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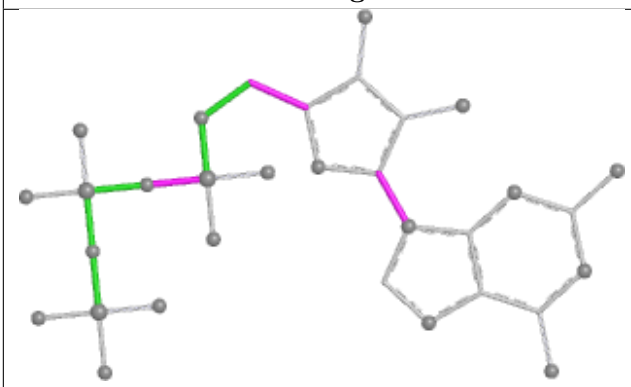
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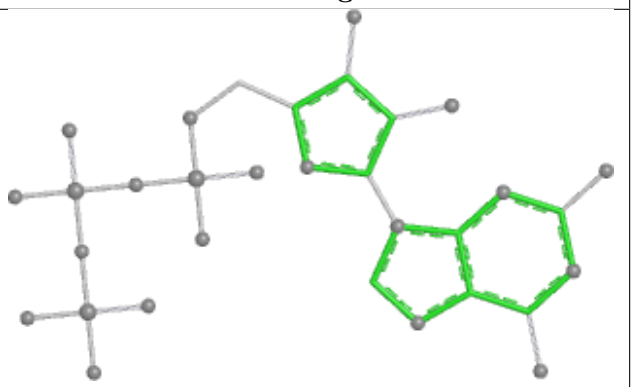
Bond lengths



Bond angles

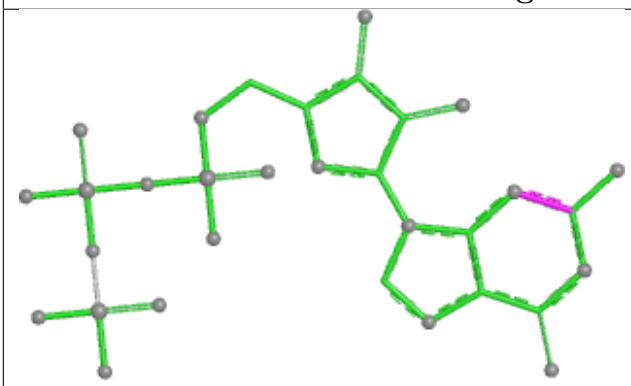


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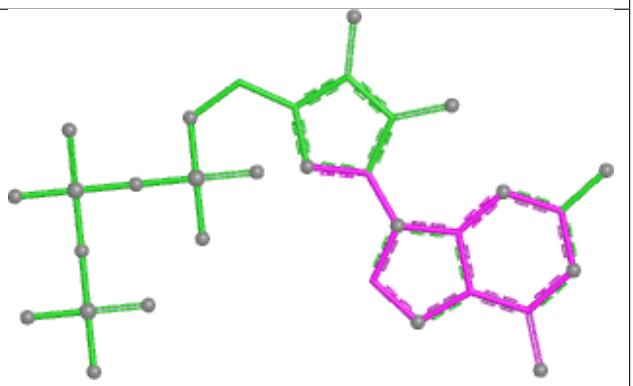


Rings

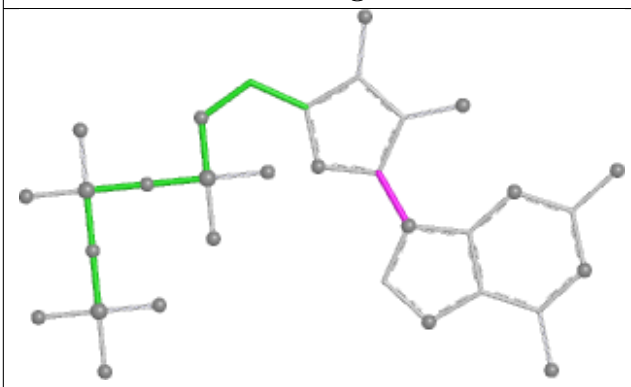
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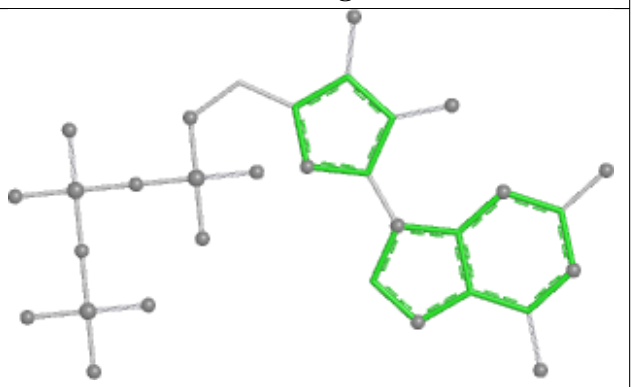
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Bond angles

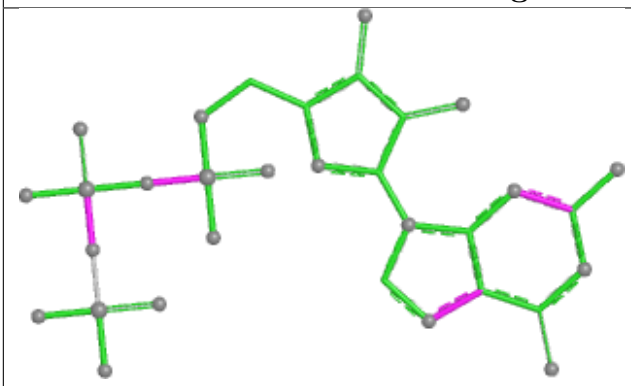


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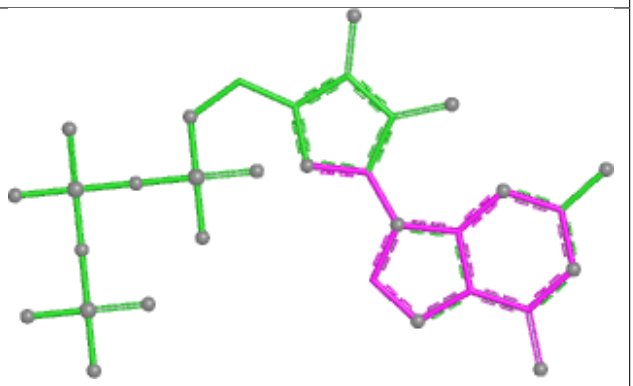


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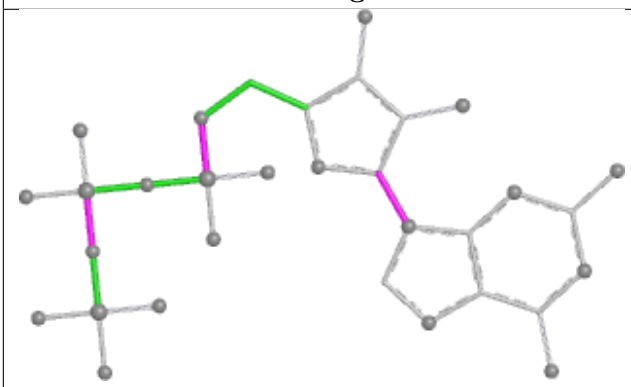
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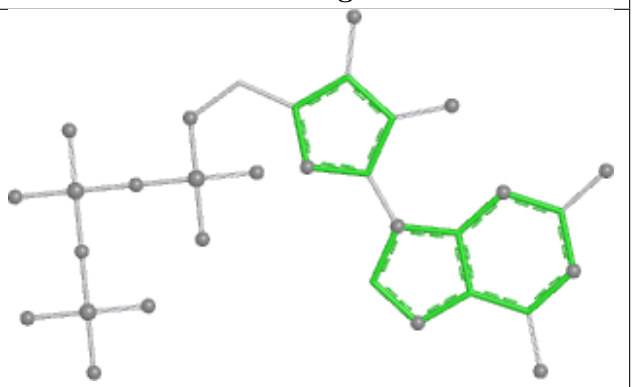
Bond lengths



Bond angles

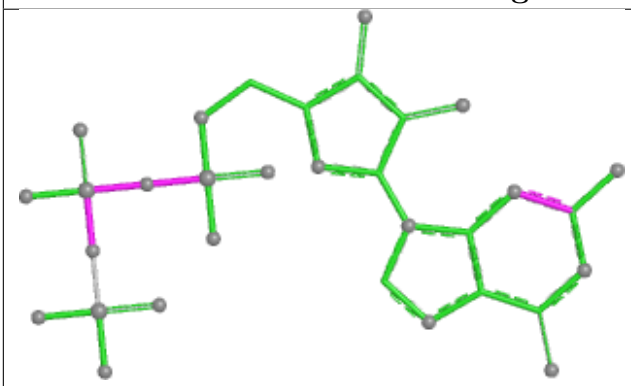


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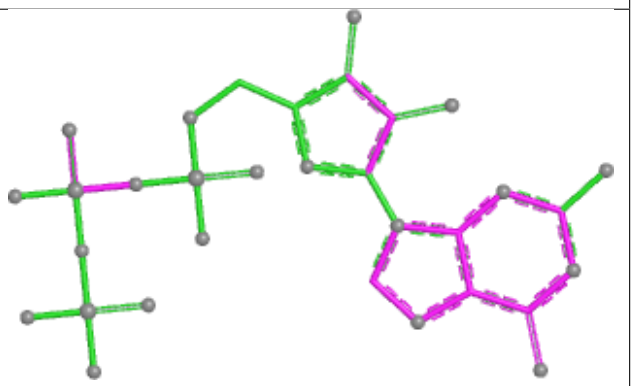


Rings

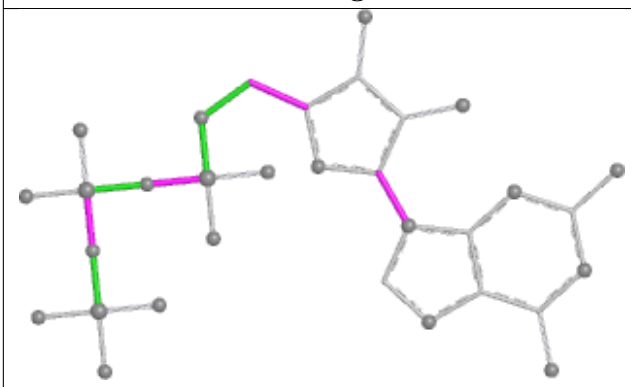
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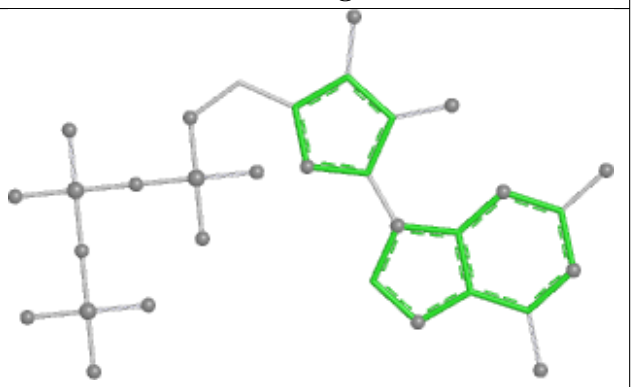
Bond lengths



Bond angles

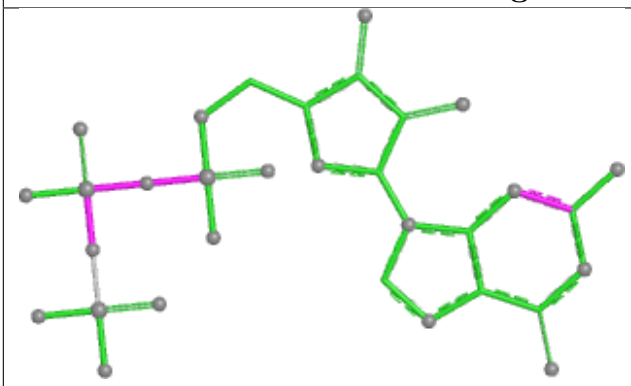


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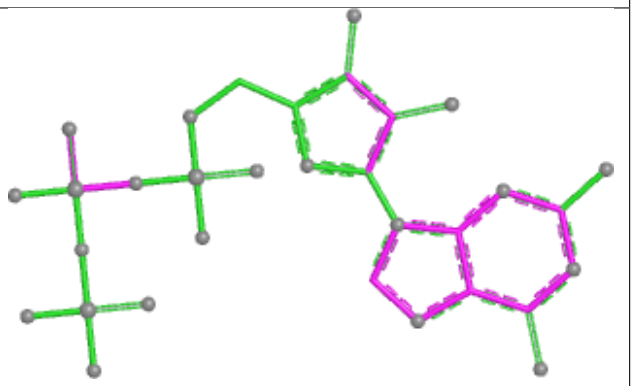


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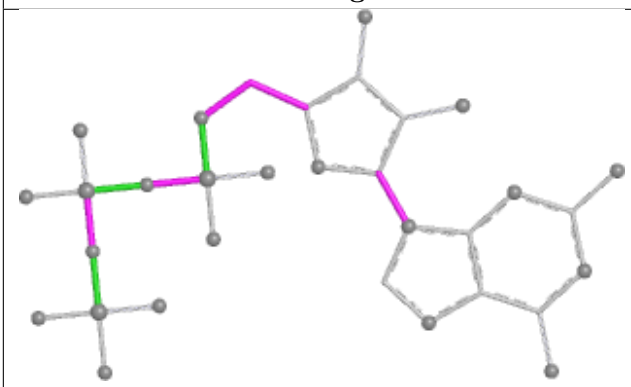
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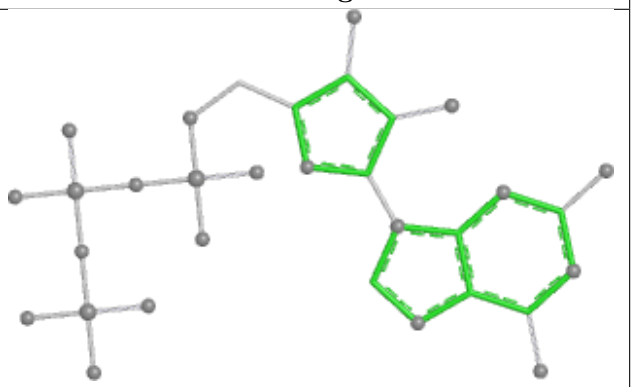
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Bond angles

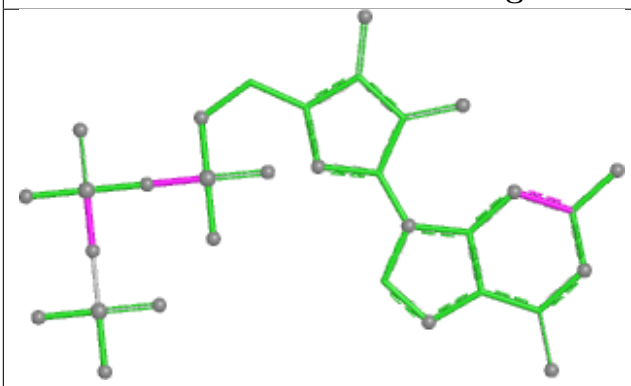


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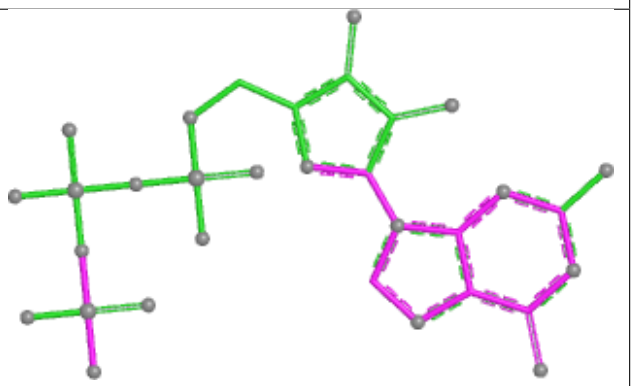


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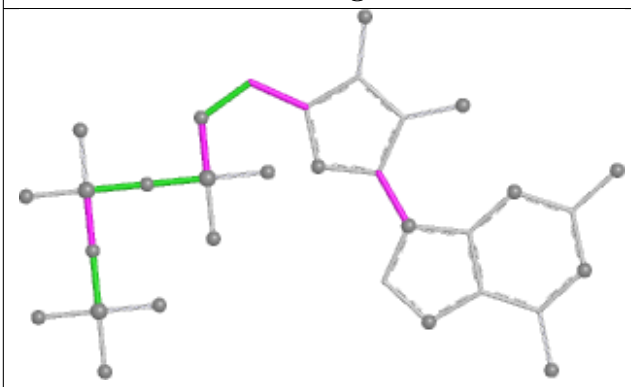
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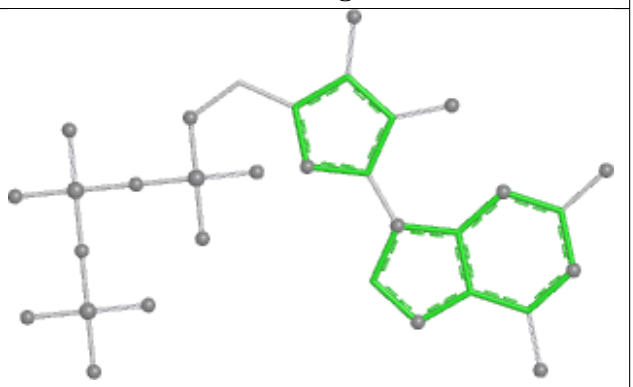
Bond lengths



Bond angles

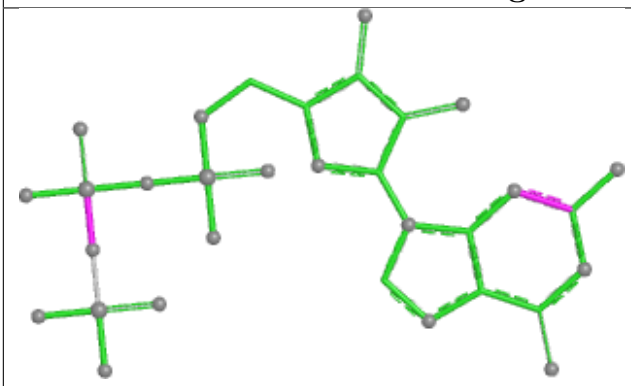


Torsions

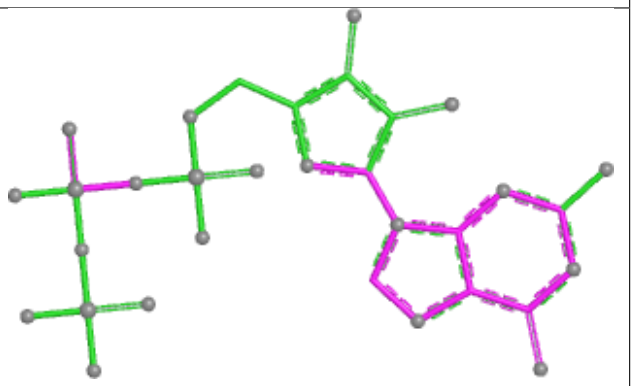


Rings

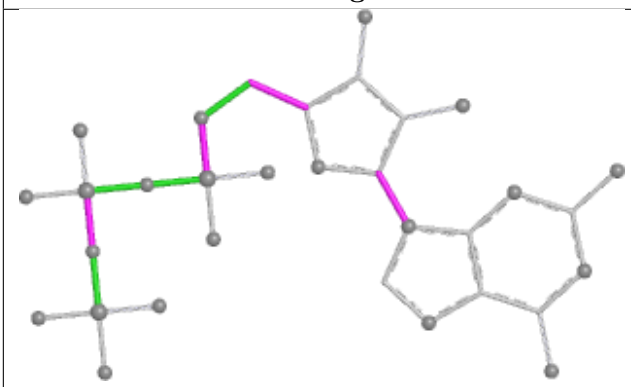
Ligand GTP RD 501



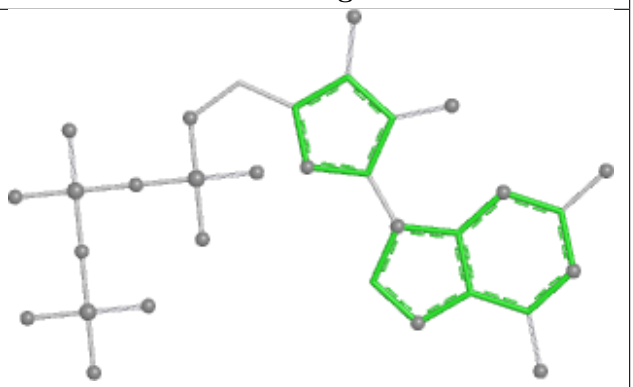
Bond lengths



Bond angles

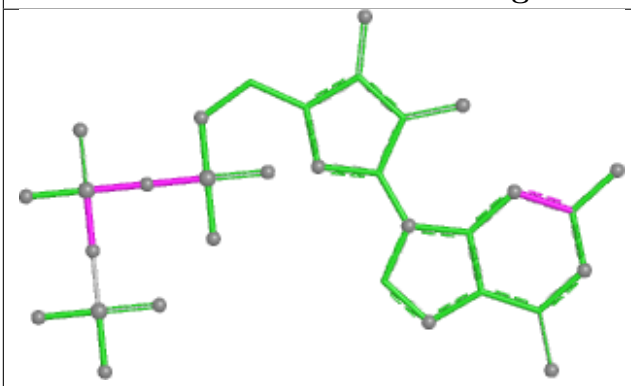


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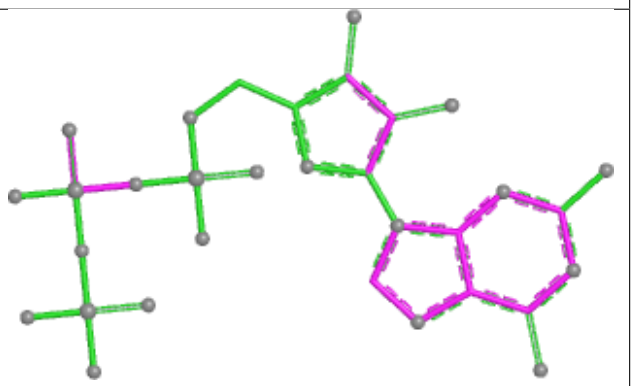


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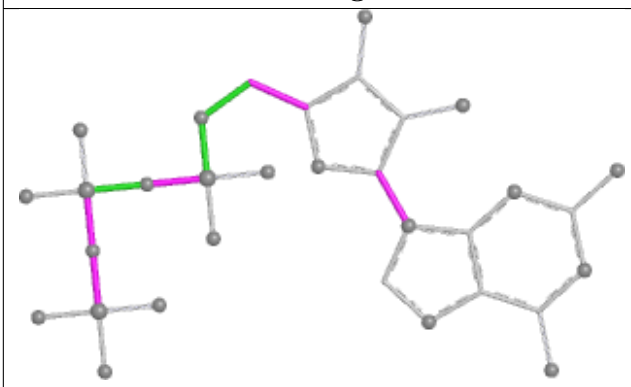
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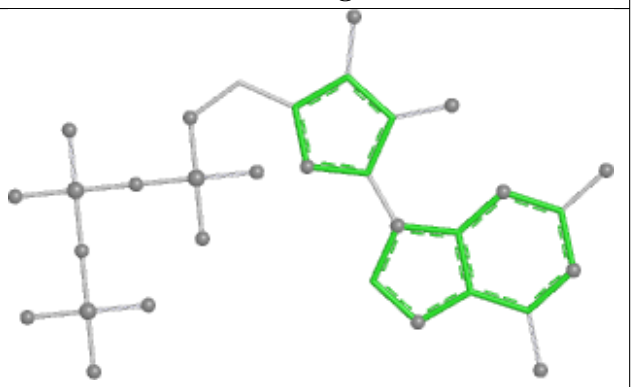
Bond lengths



Bond angles

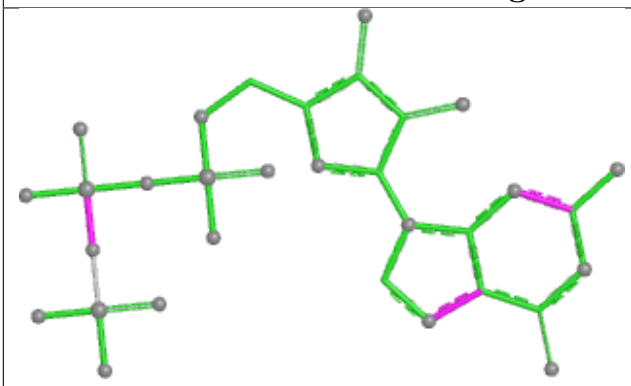


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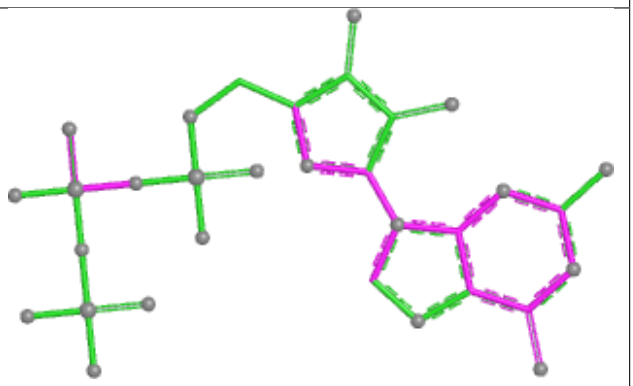


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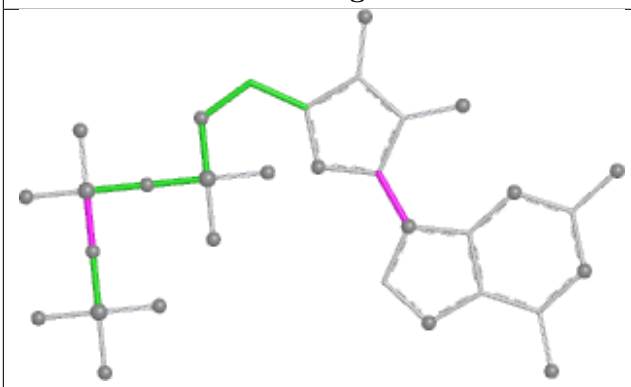
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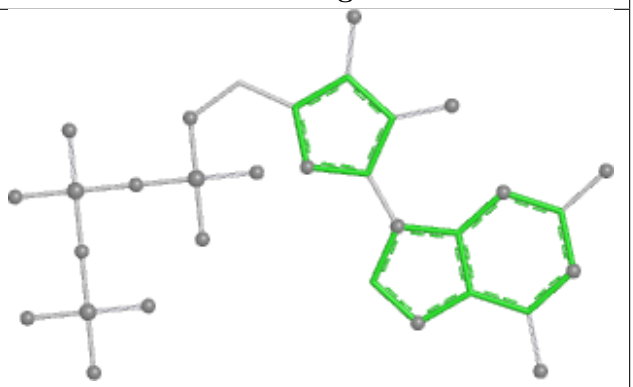
Bond lengths



Bond angles

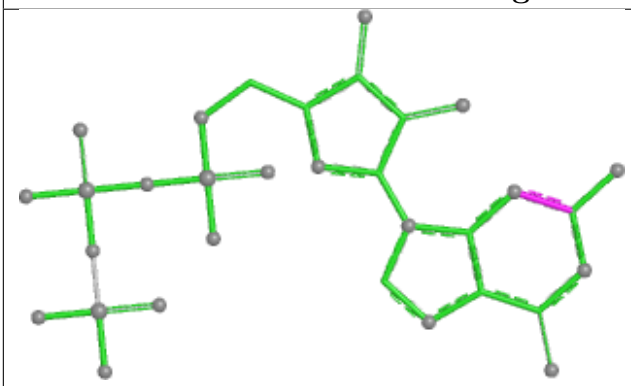


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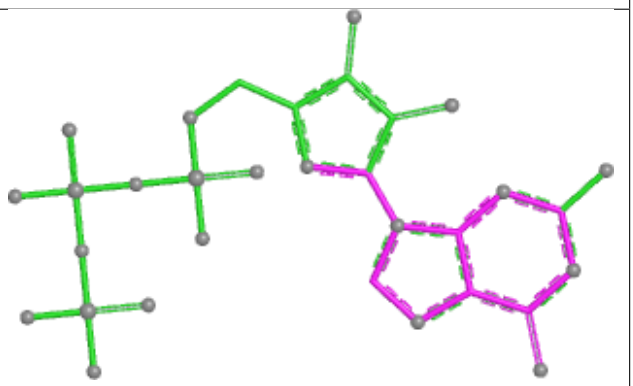


Rings

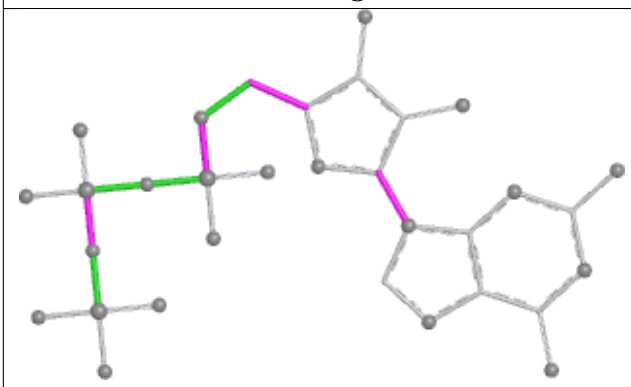
Ligand GTP KJ 501



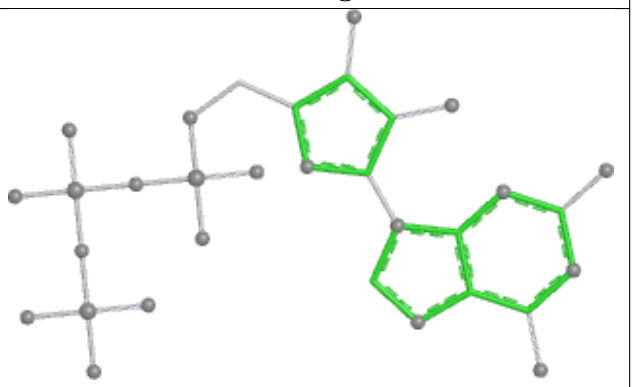
Bond lengths



Bond angles

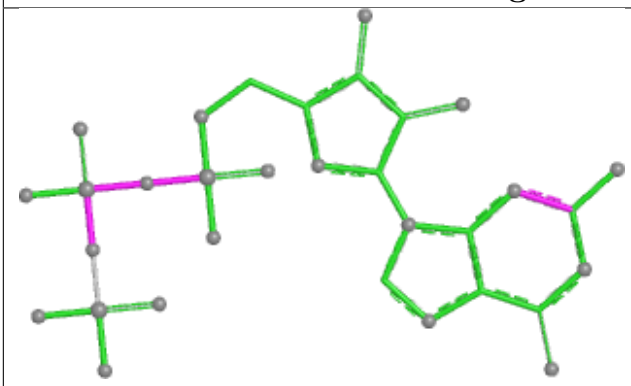


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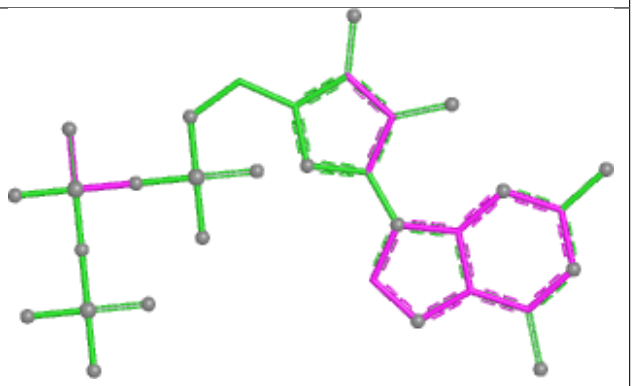


Rings

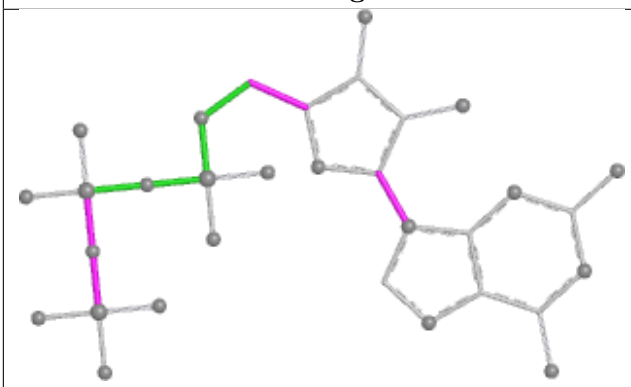
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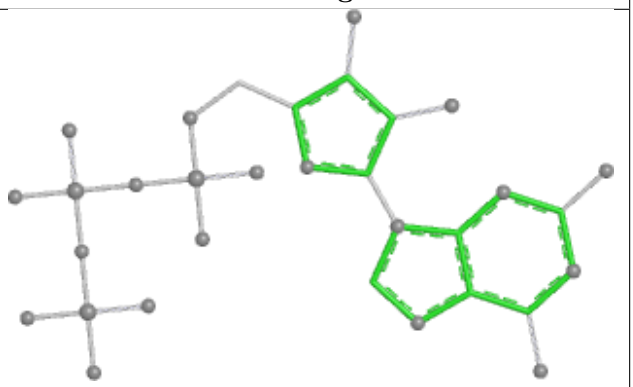
Bond lengths



Bond angles

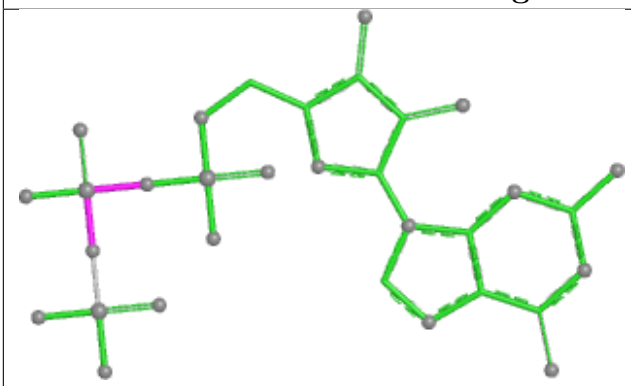


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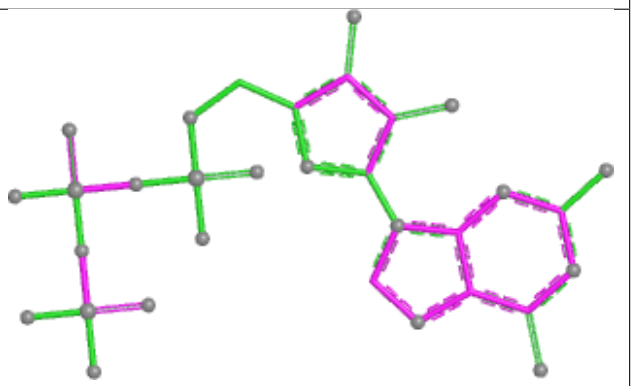


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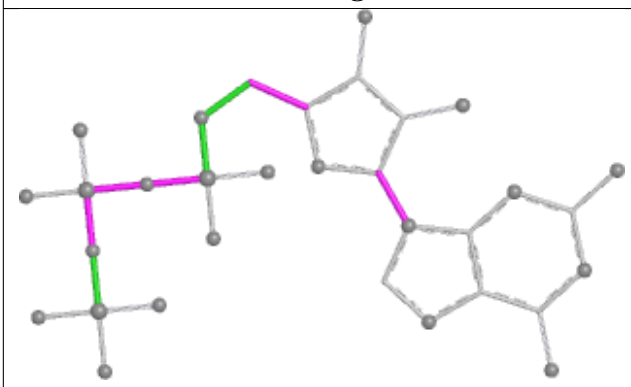
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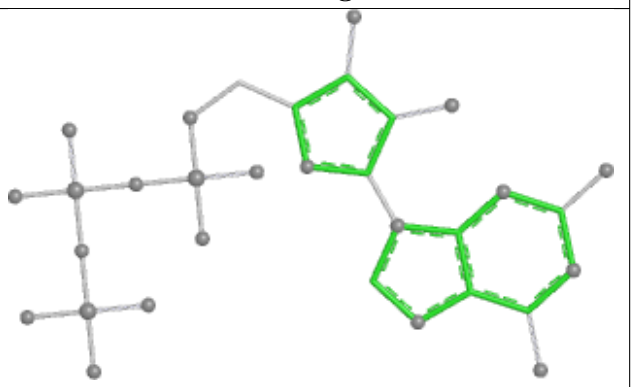
Bond lengths



Bond angles

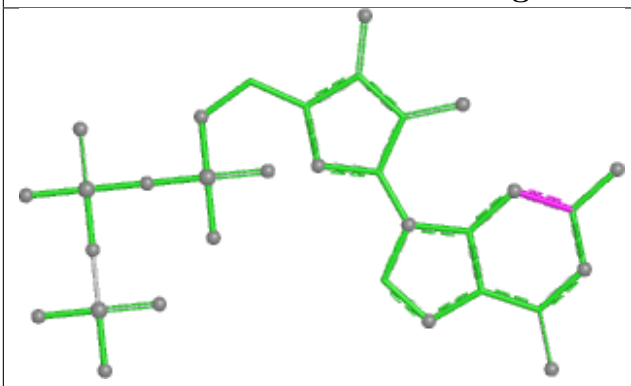


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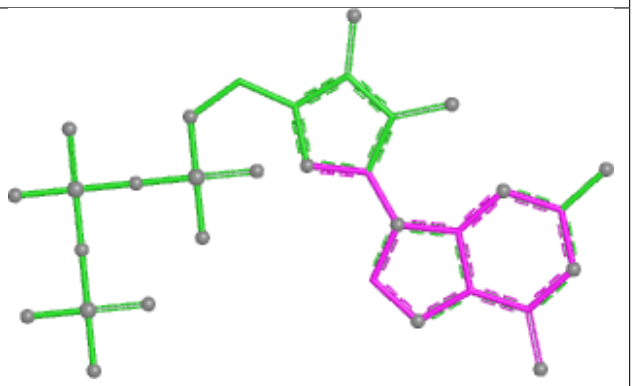


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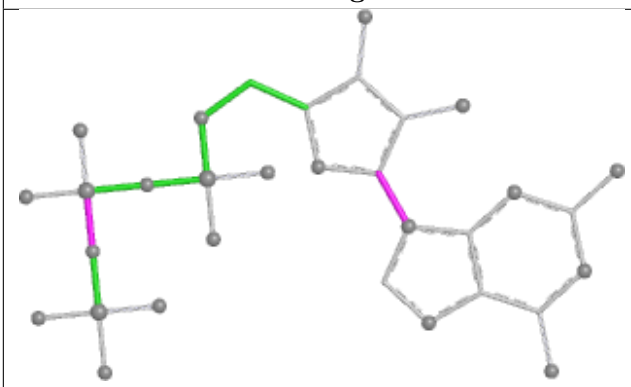
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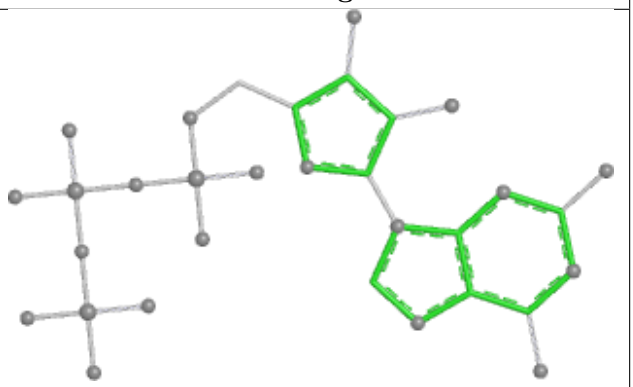
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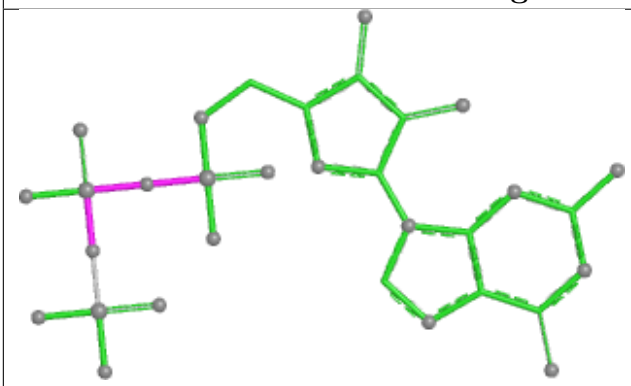


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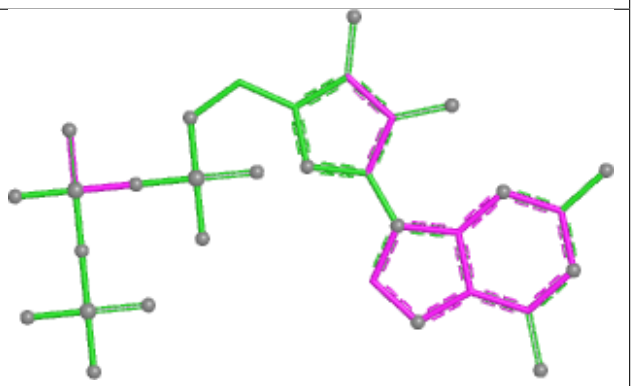


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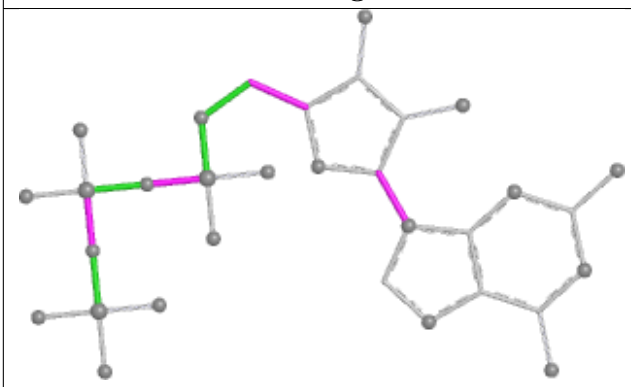
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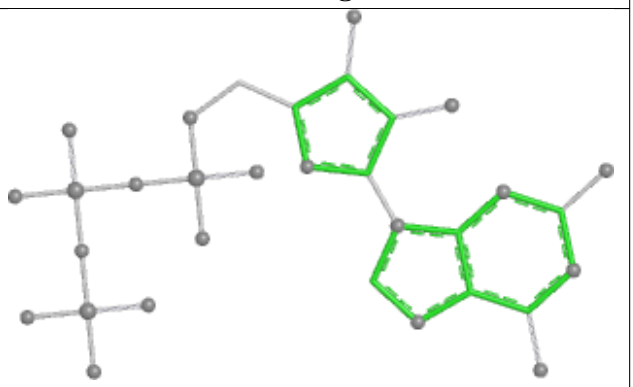
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Bond angles

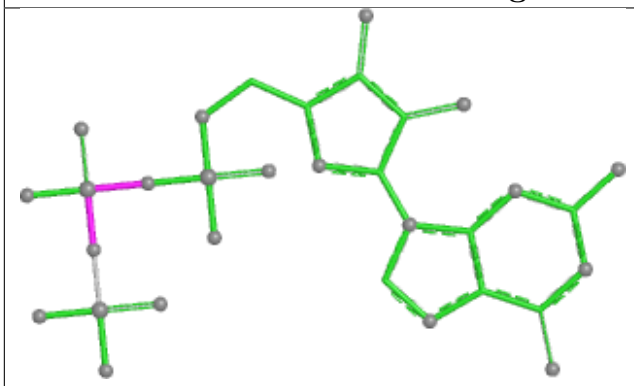


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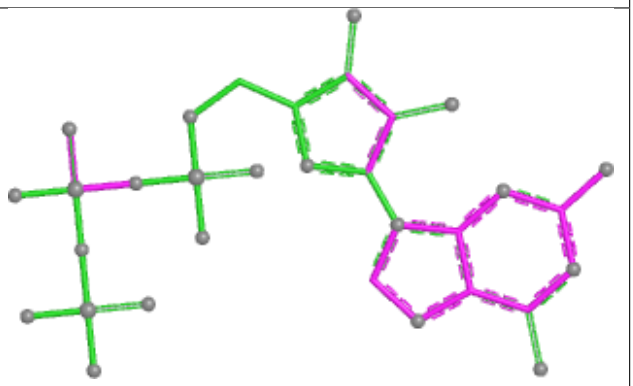


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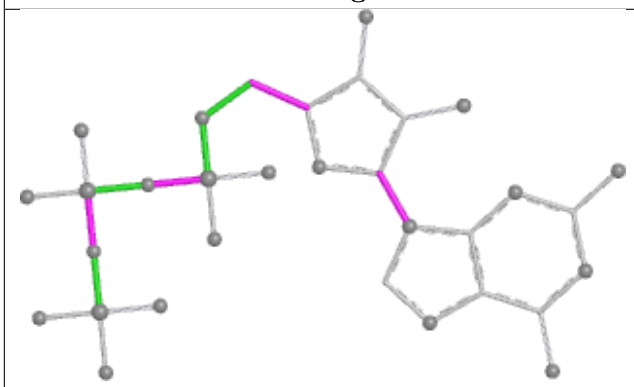
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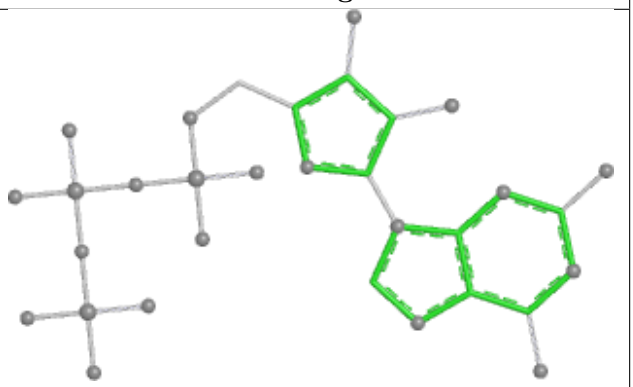
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Bond angles

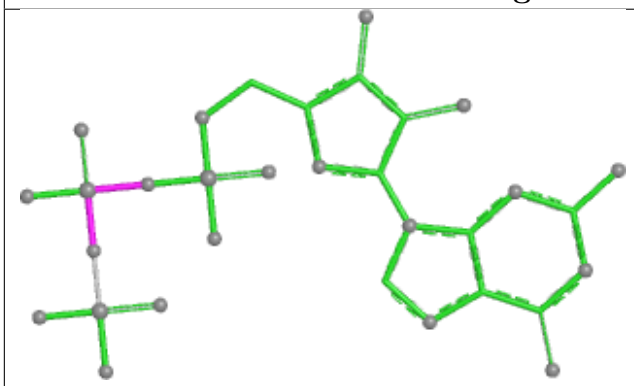


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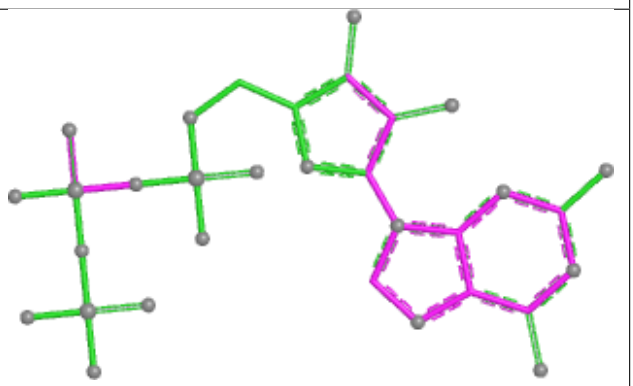


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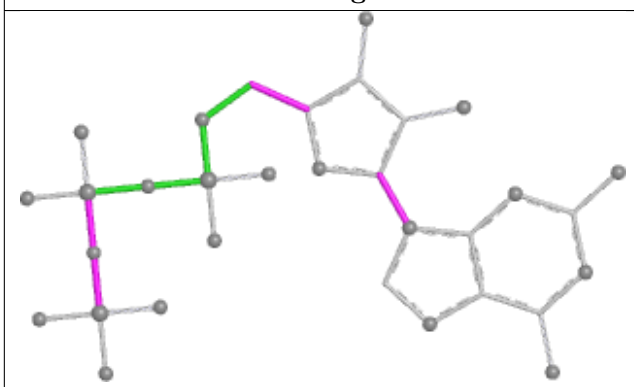
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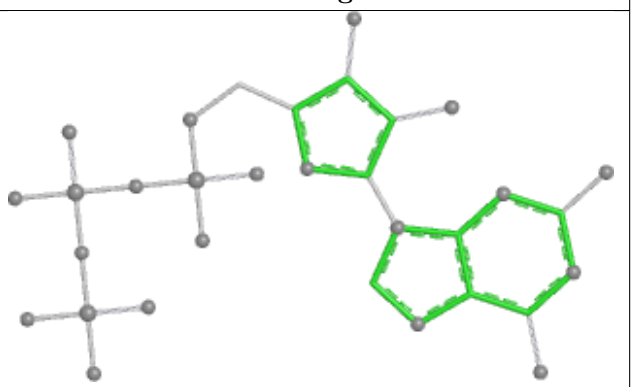
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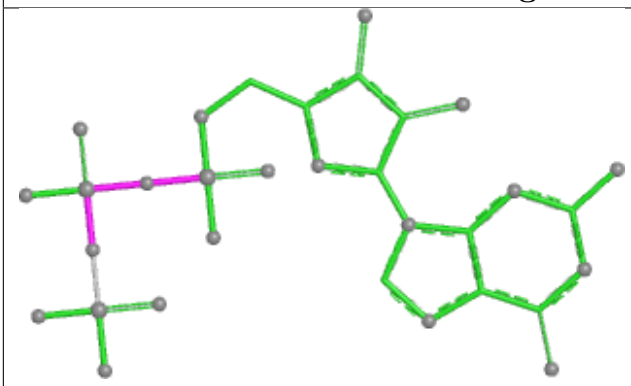


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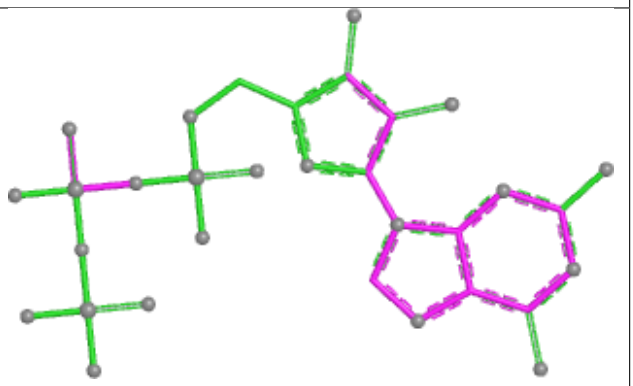


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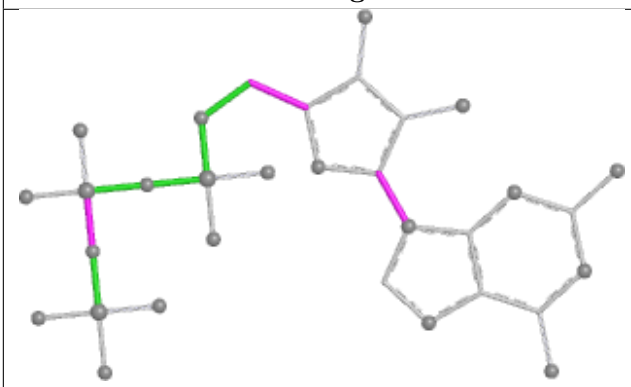
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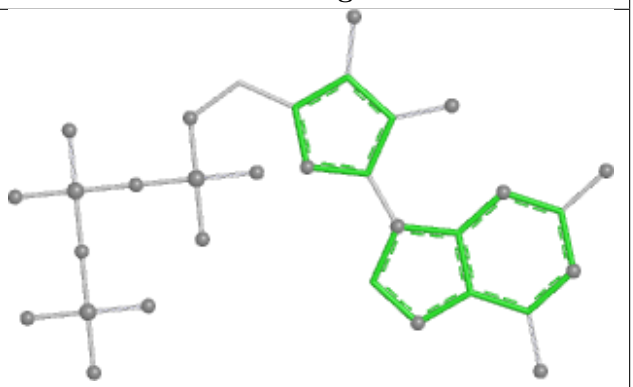
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Bond angles

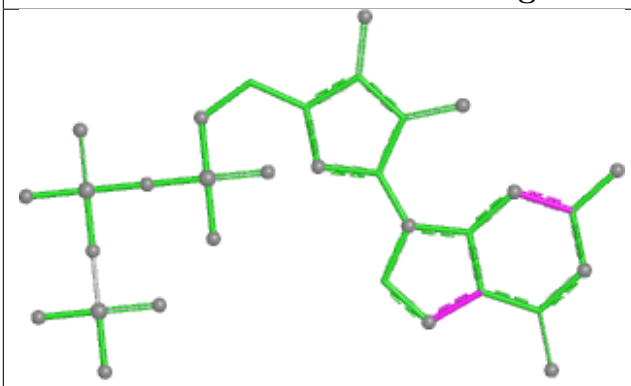


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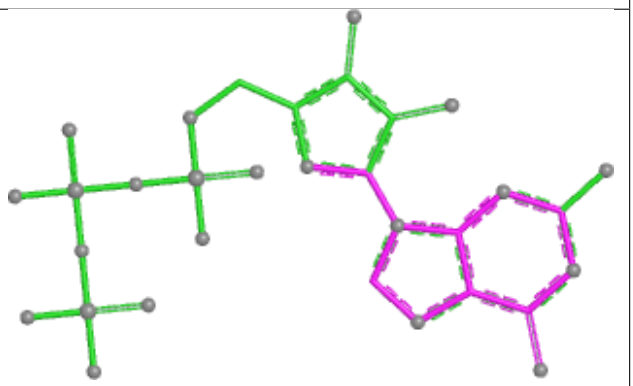


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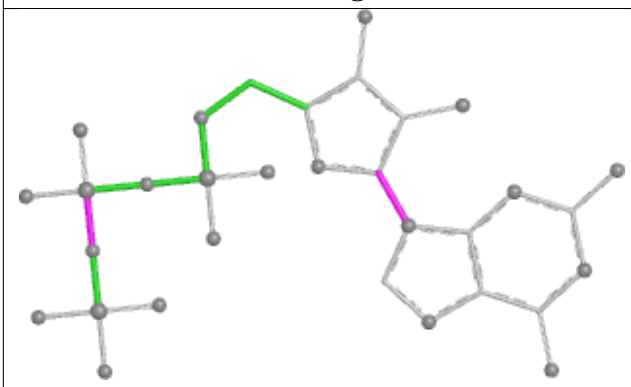
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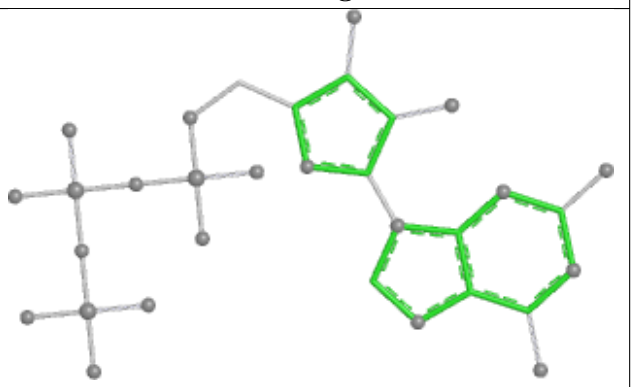
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Bond angles

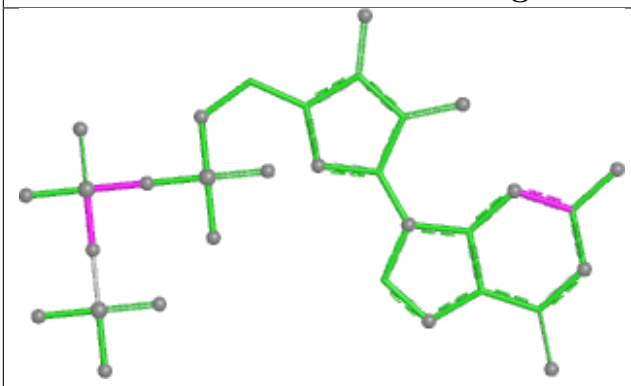


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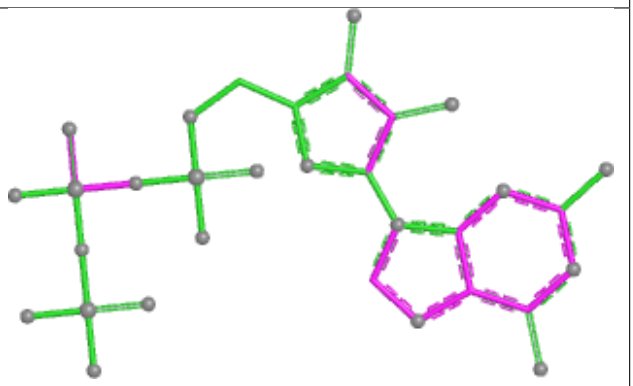


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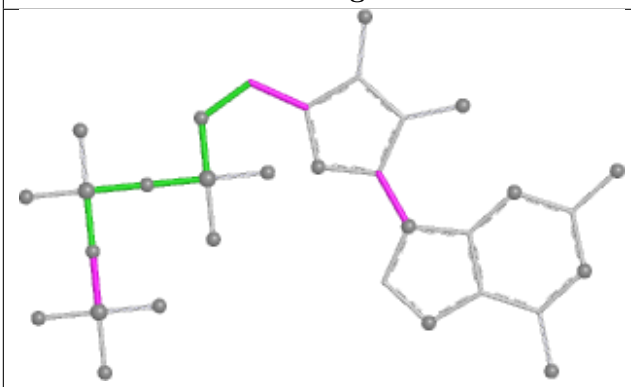
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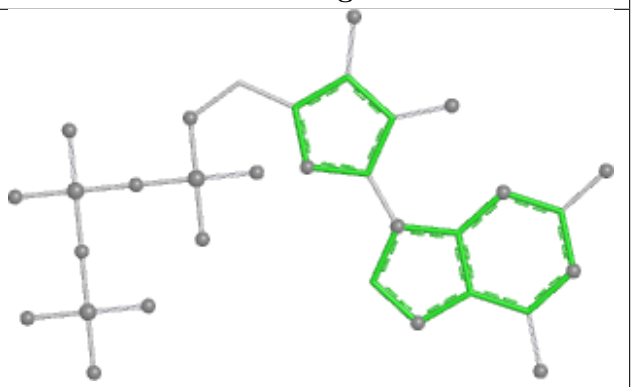
Bond lengths



Bond angles

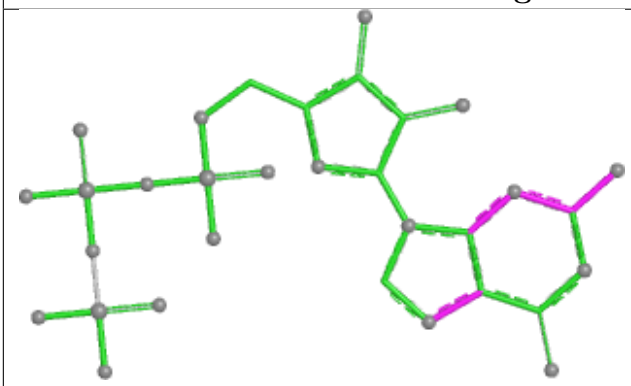


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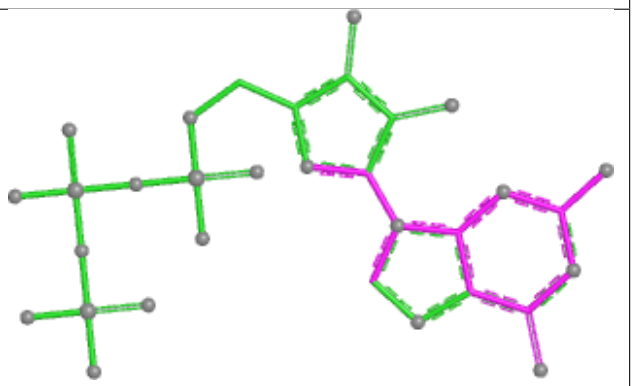


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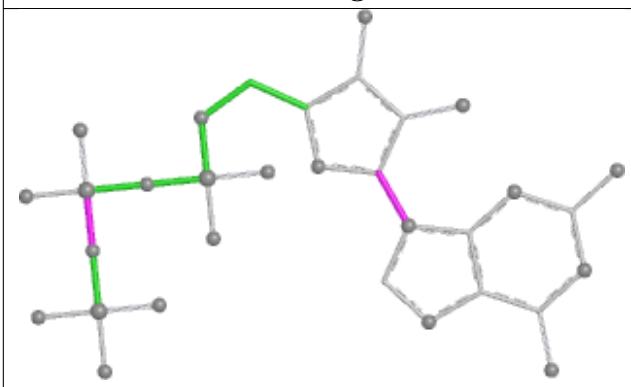
Ligand GTP TJ 501



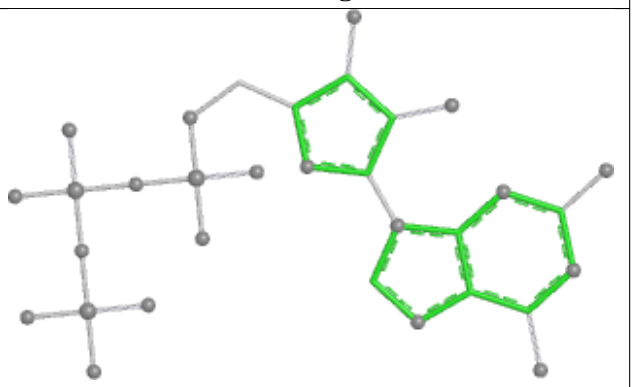
Bond lengths



Bond angles

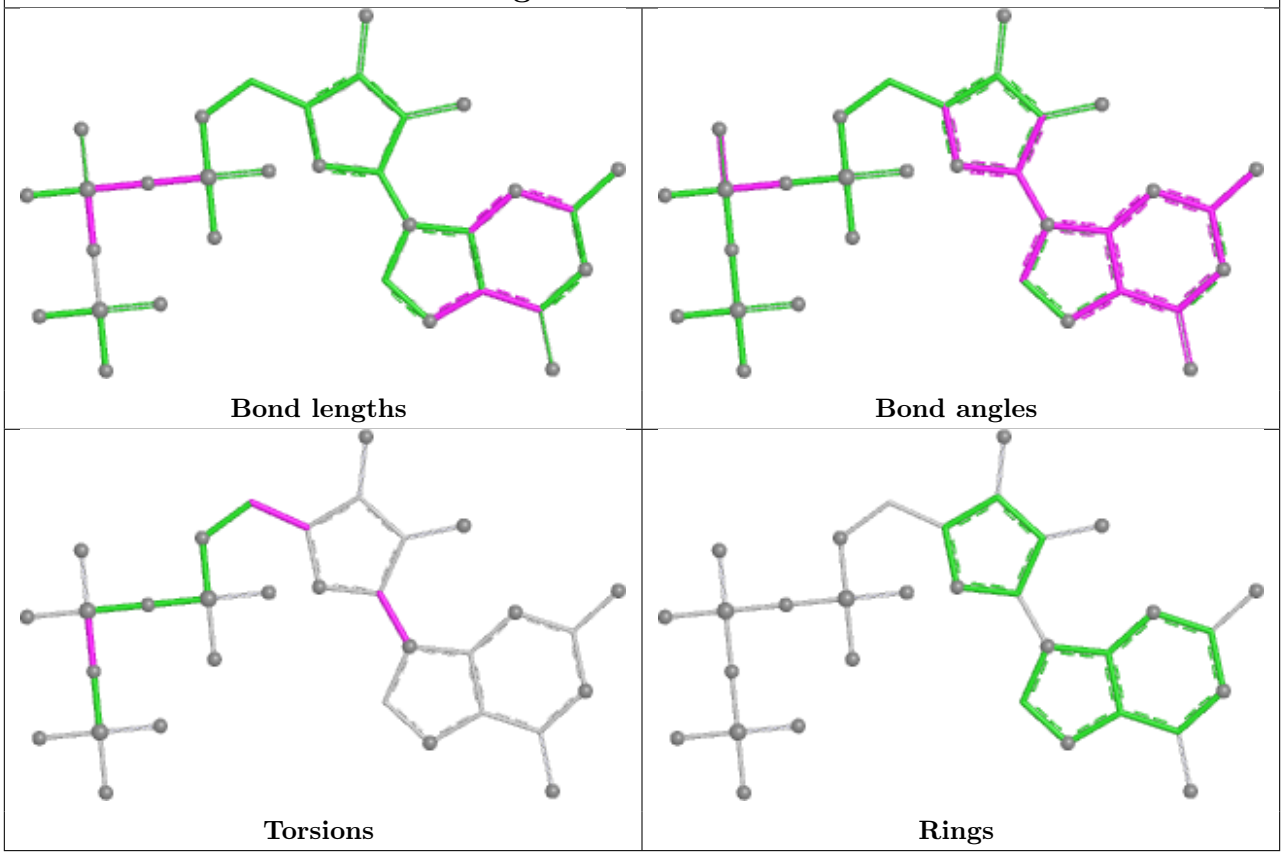


Torsions

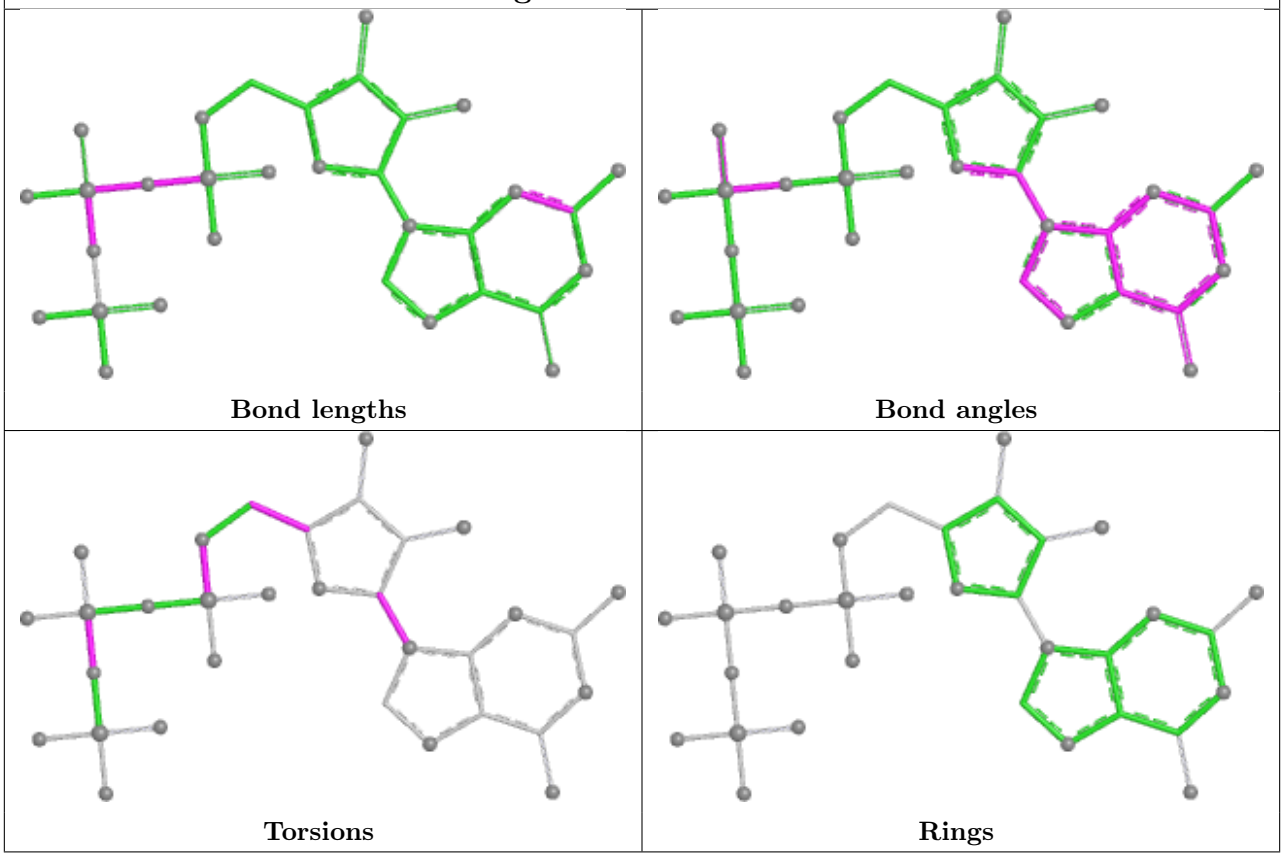


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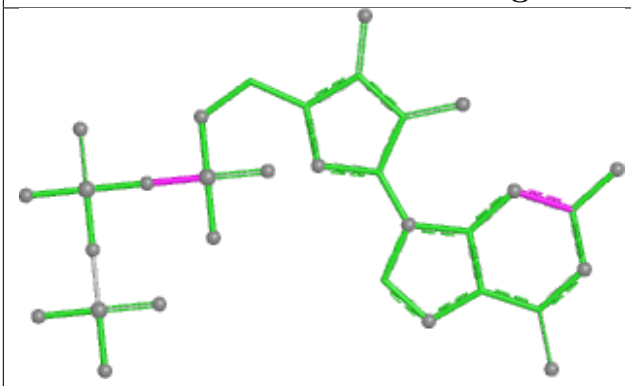
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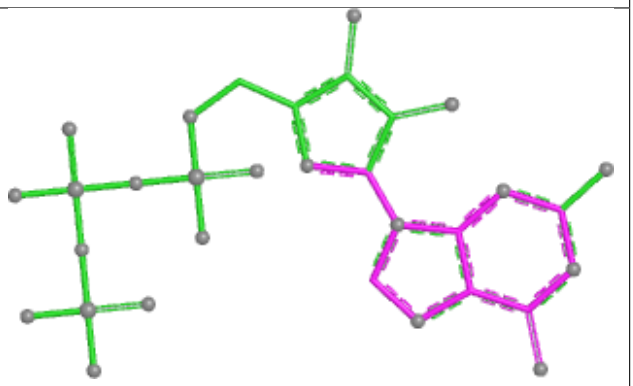
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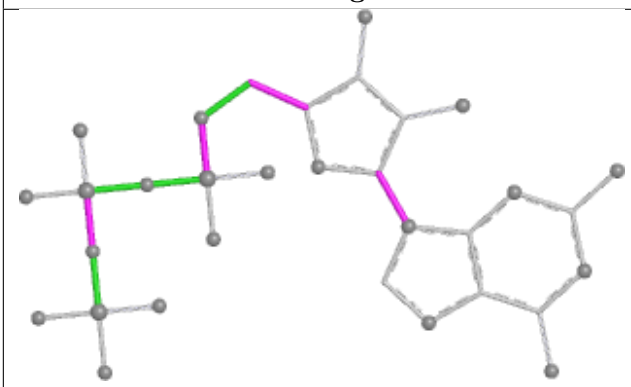
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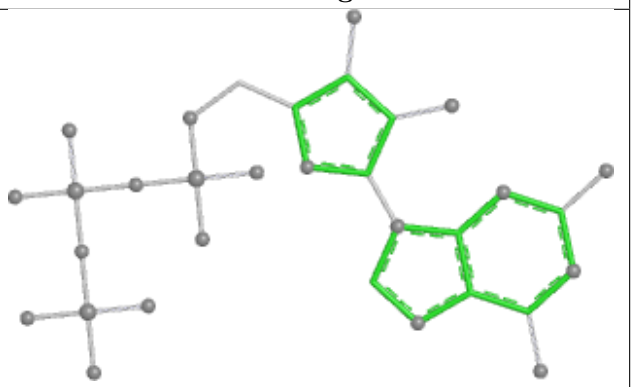
Bond lengths



Bond angles

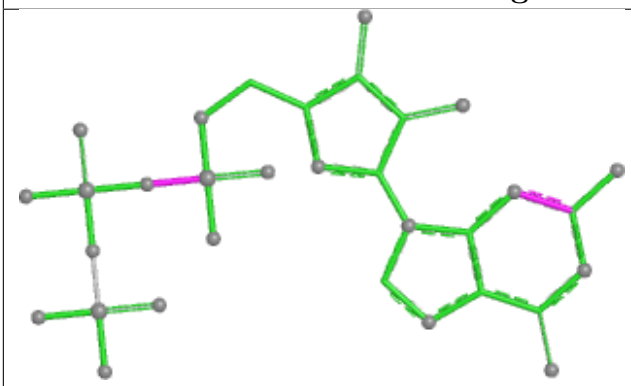


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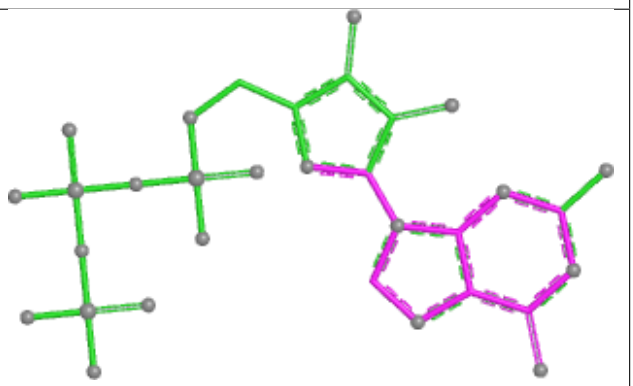


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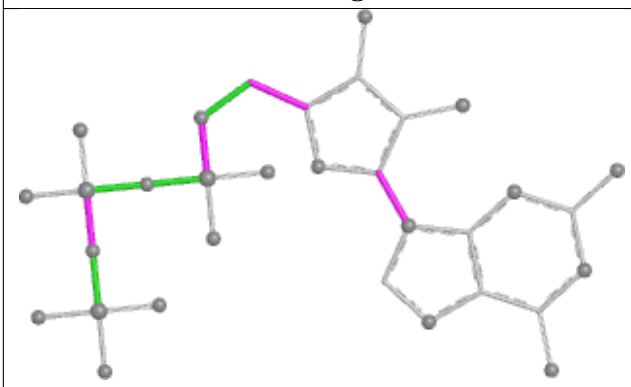
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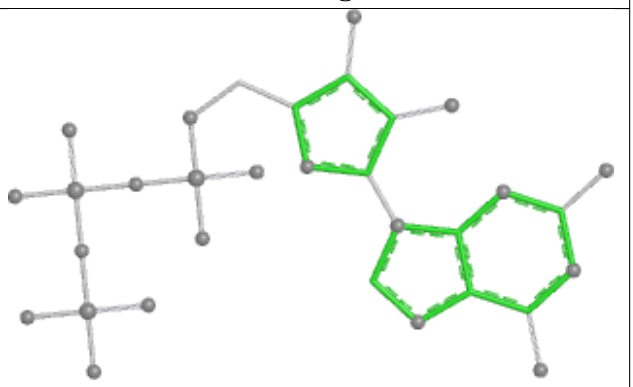
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Bond angles

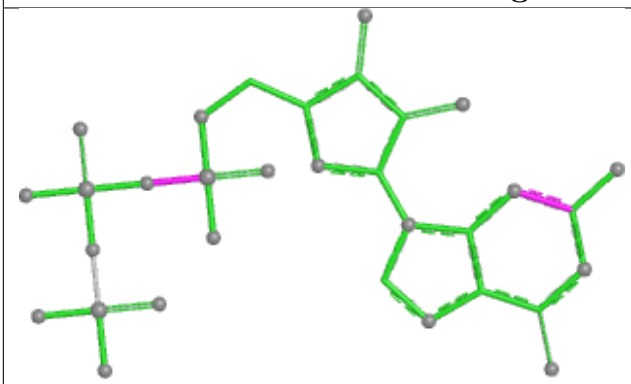


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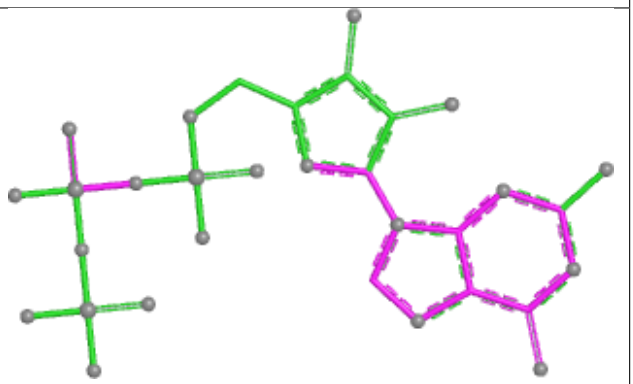


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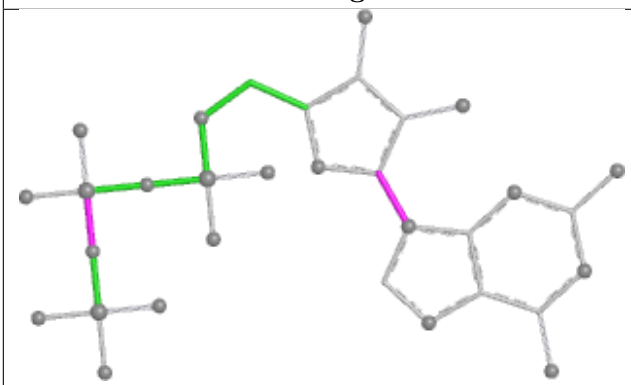
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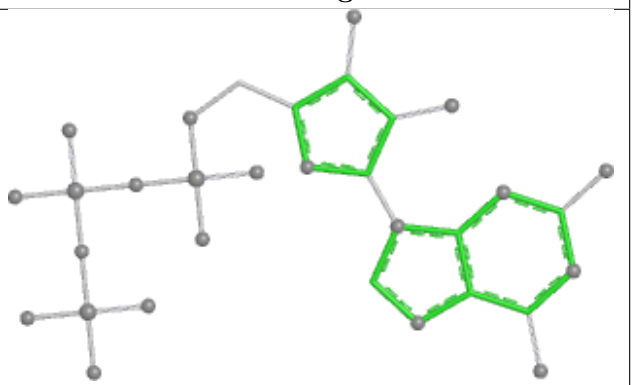
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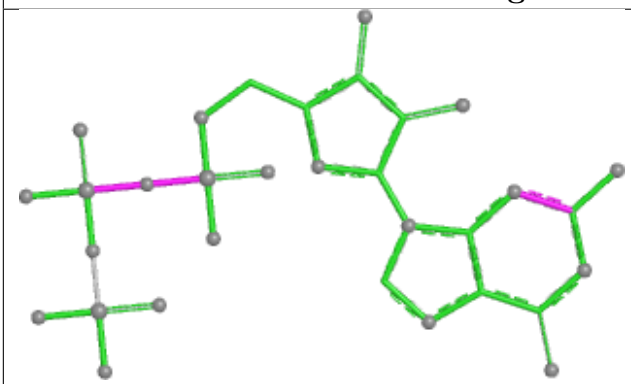


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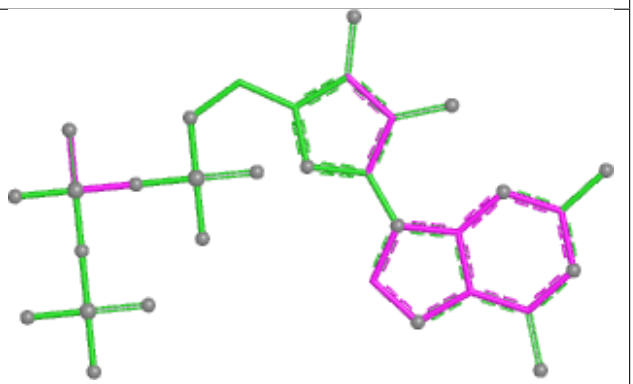


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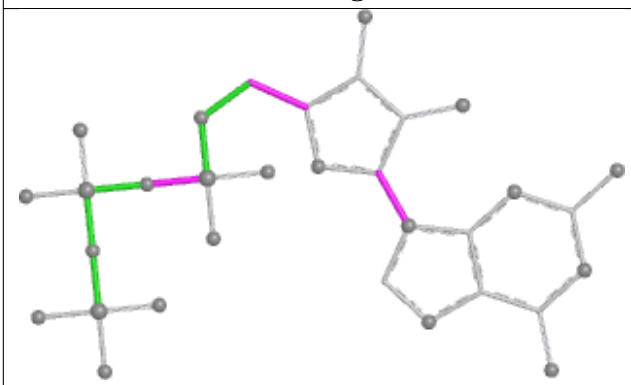
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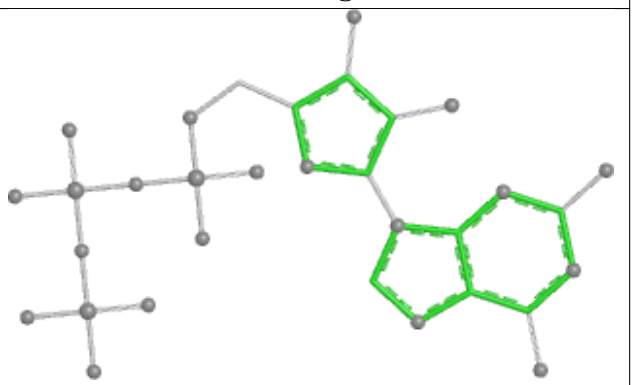
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Bond angles

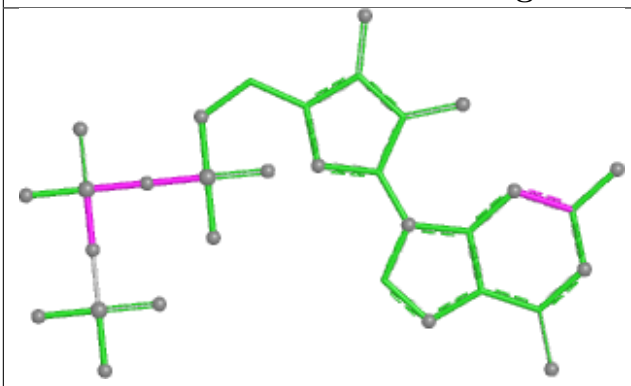


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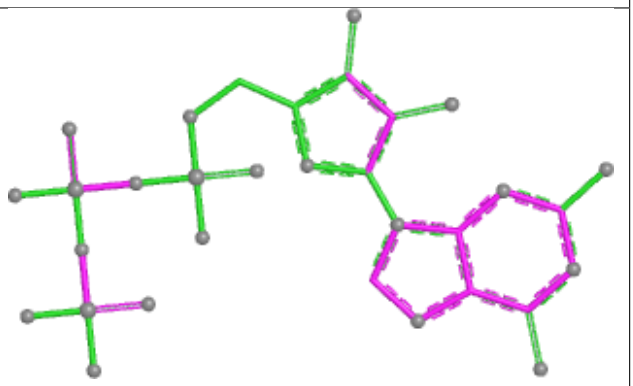


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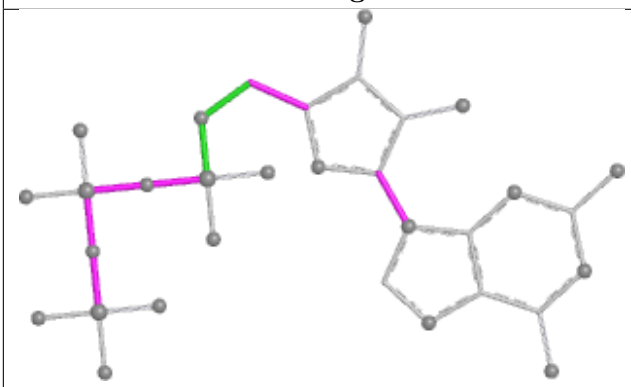
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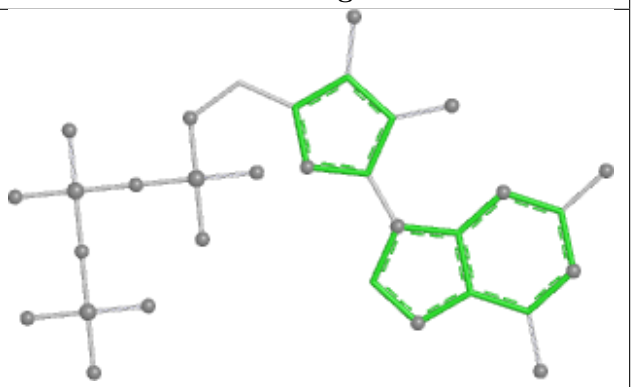
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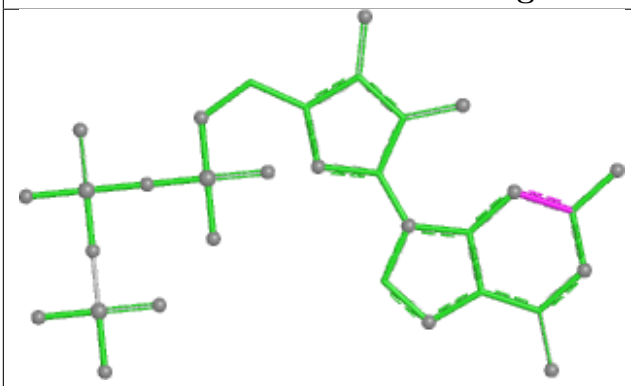


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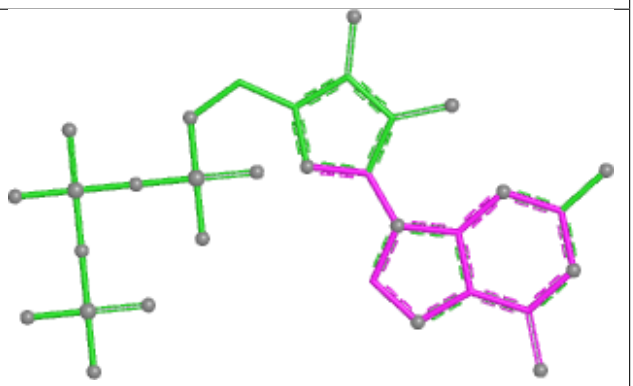


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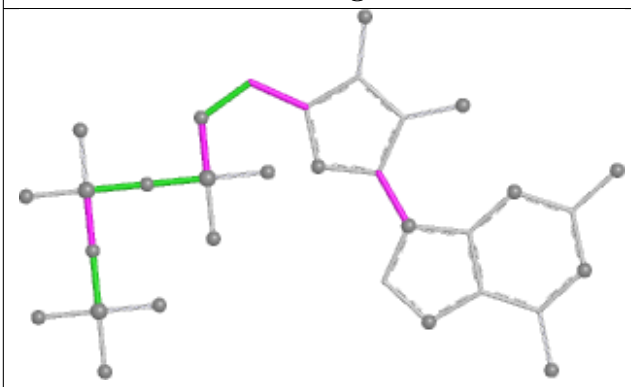
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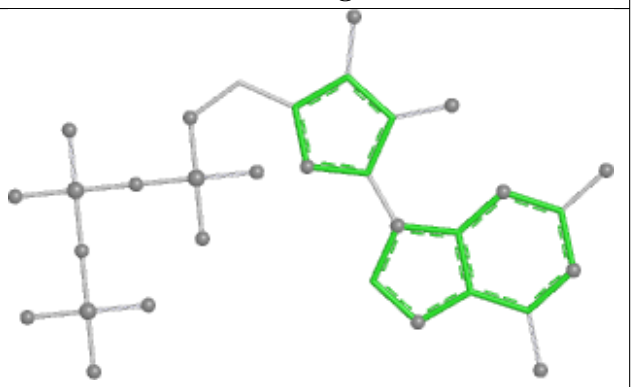
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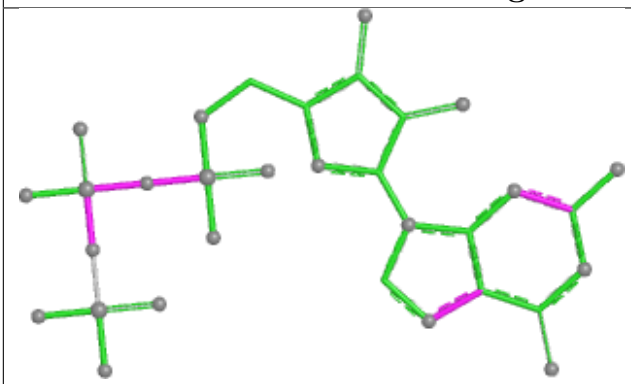


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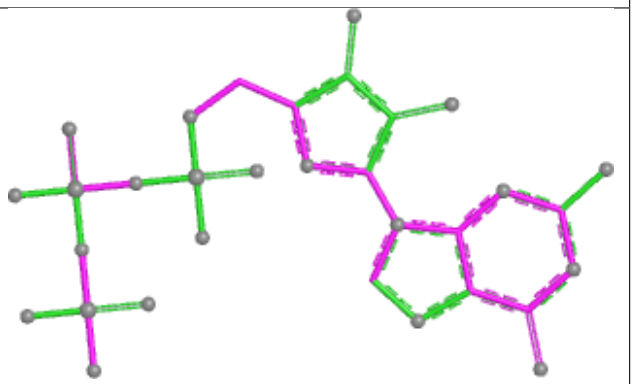


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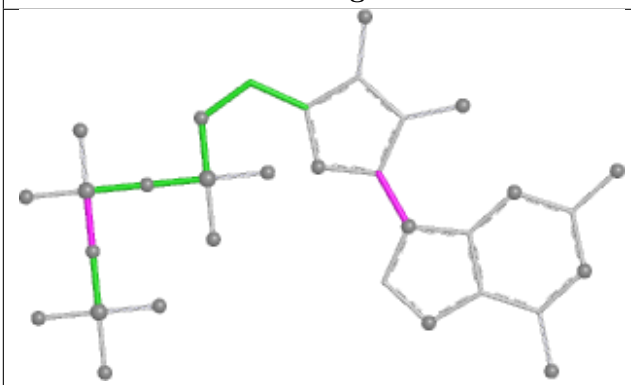
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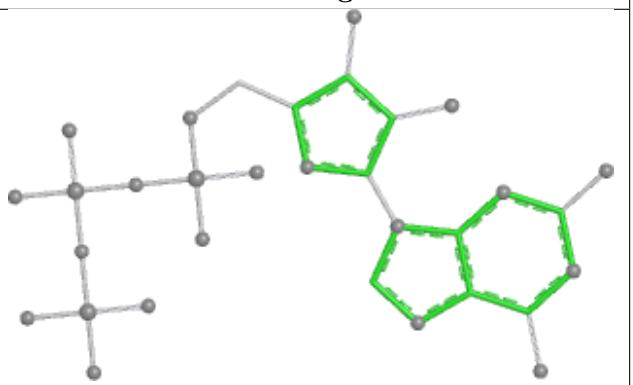
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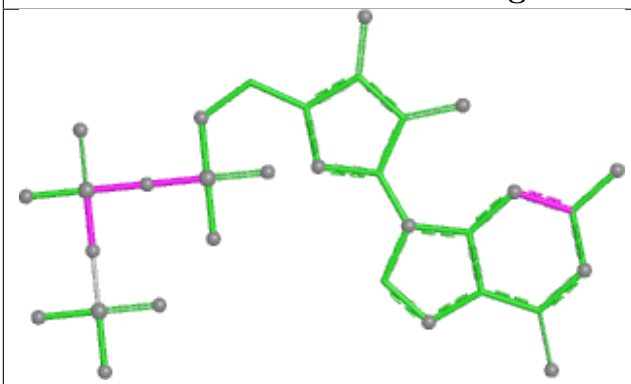


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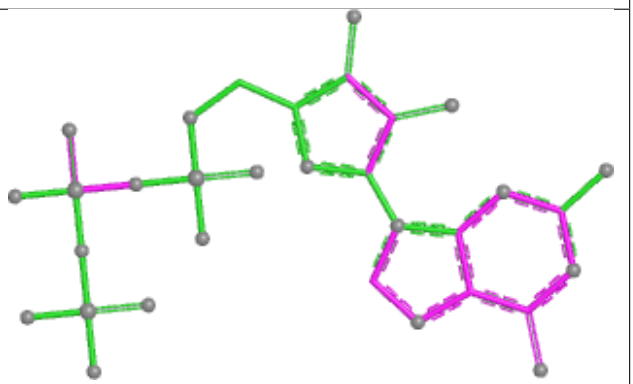


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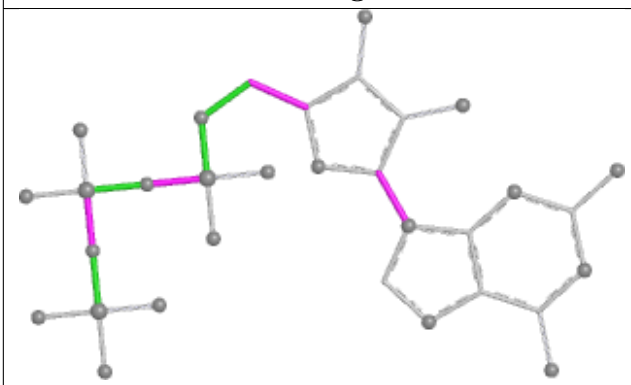
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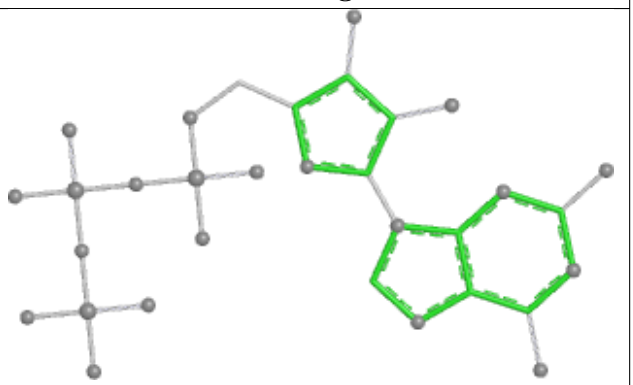
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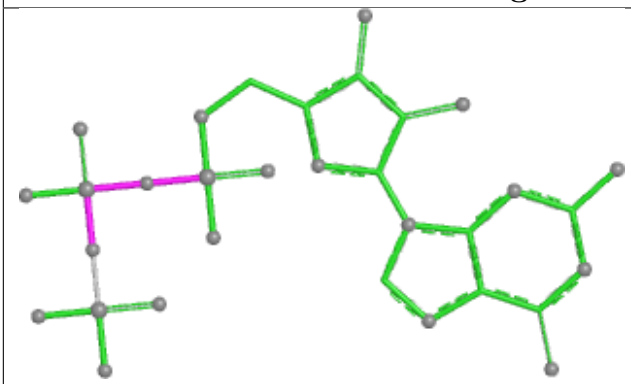


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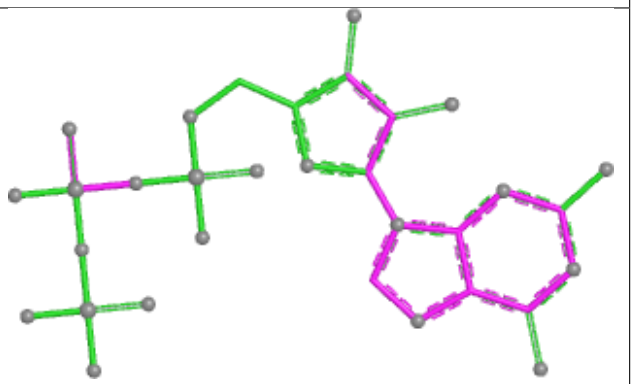


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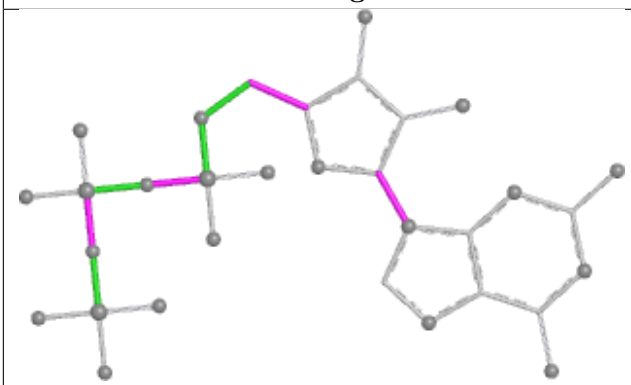
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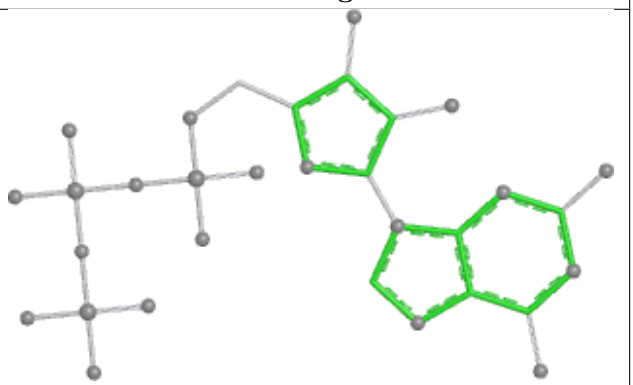
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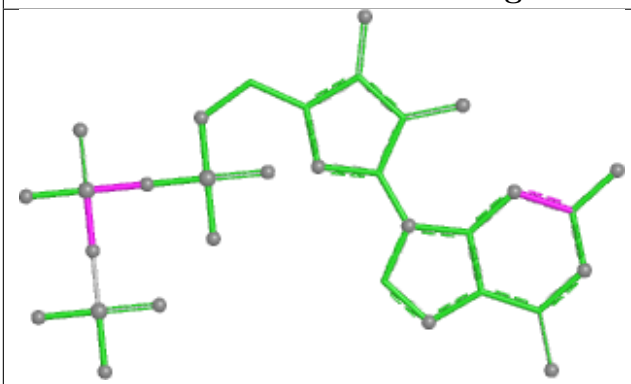


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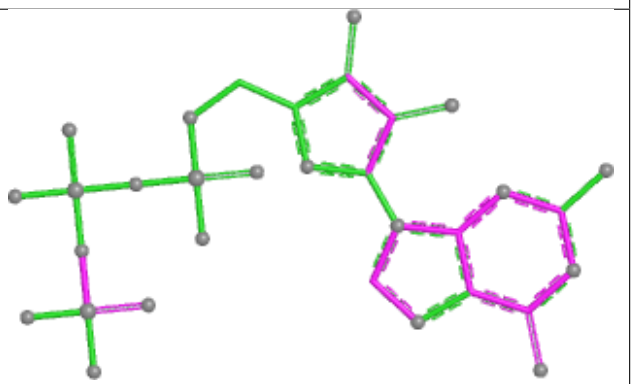


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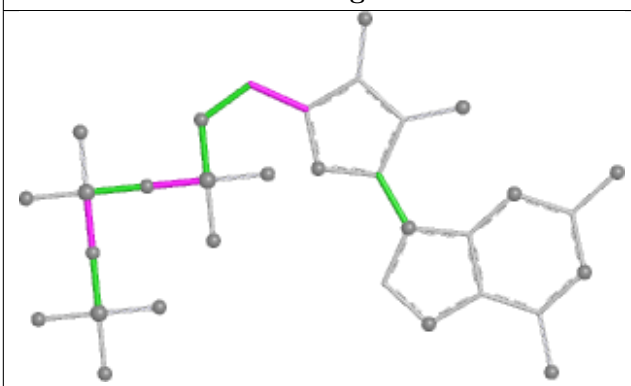
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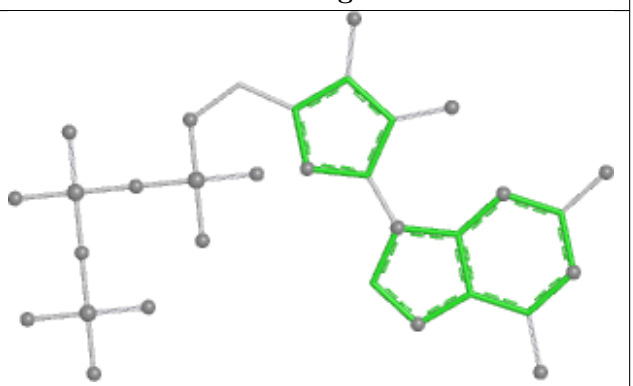
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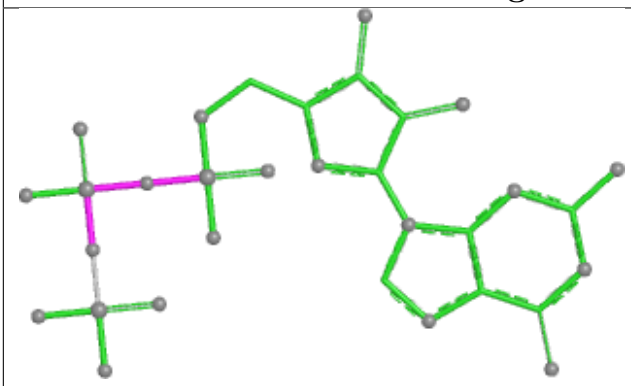


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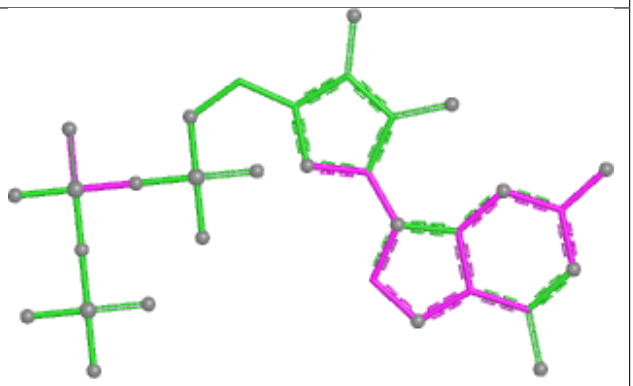


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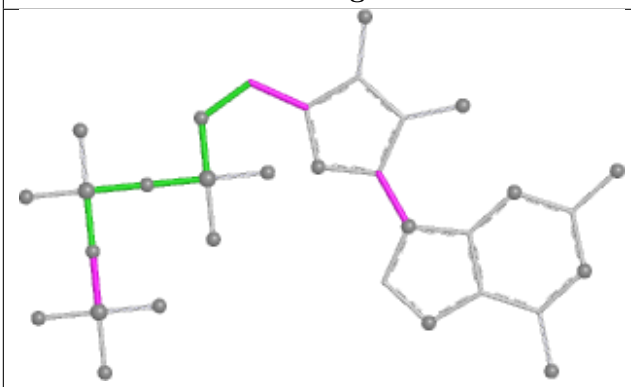
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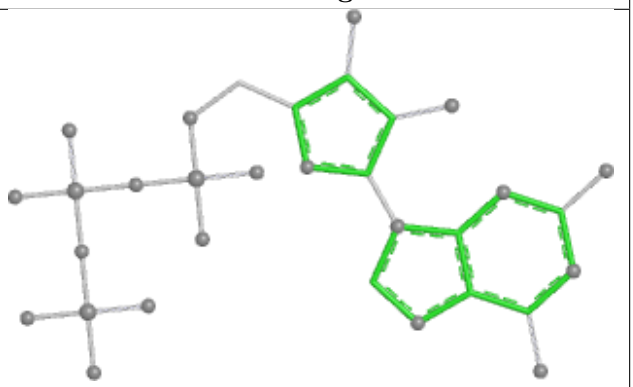
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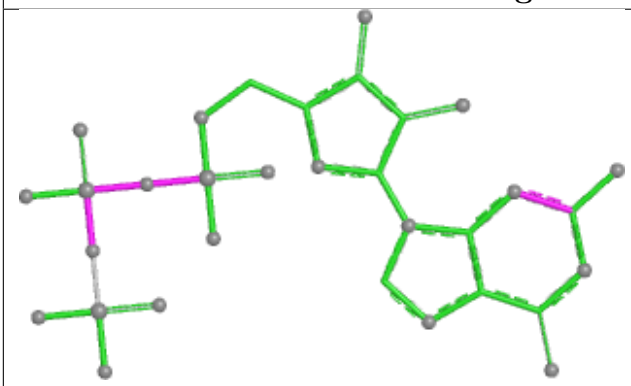


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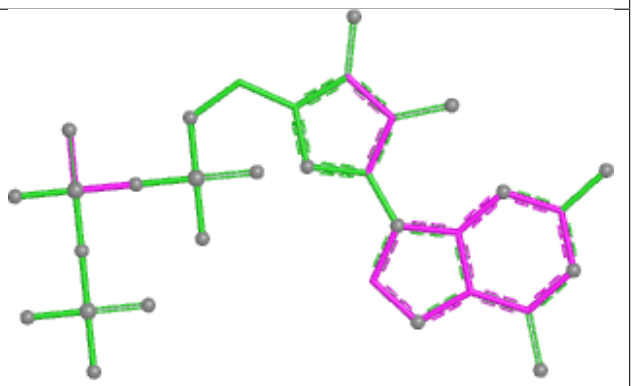


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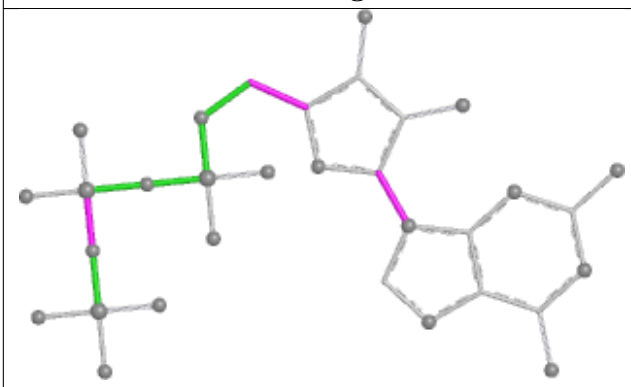
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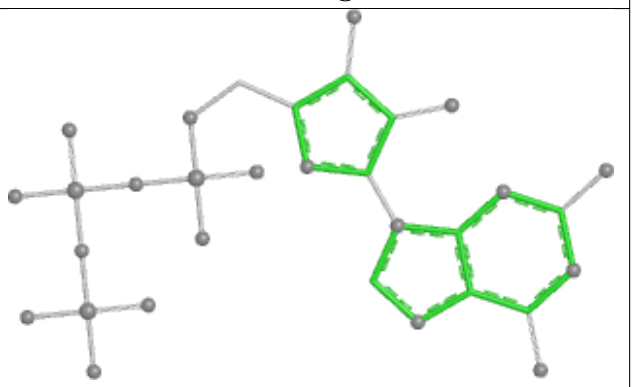
Bond lengths



Bond angles

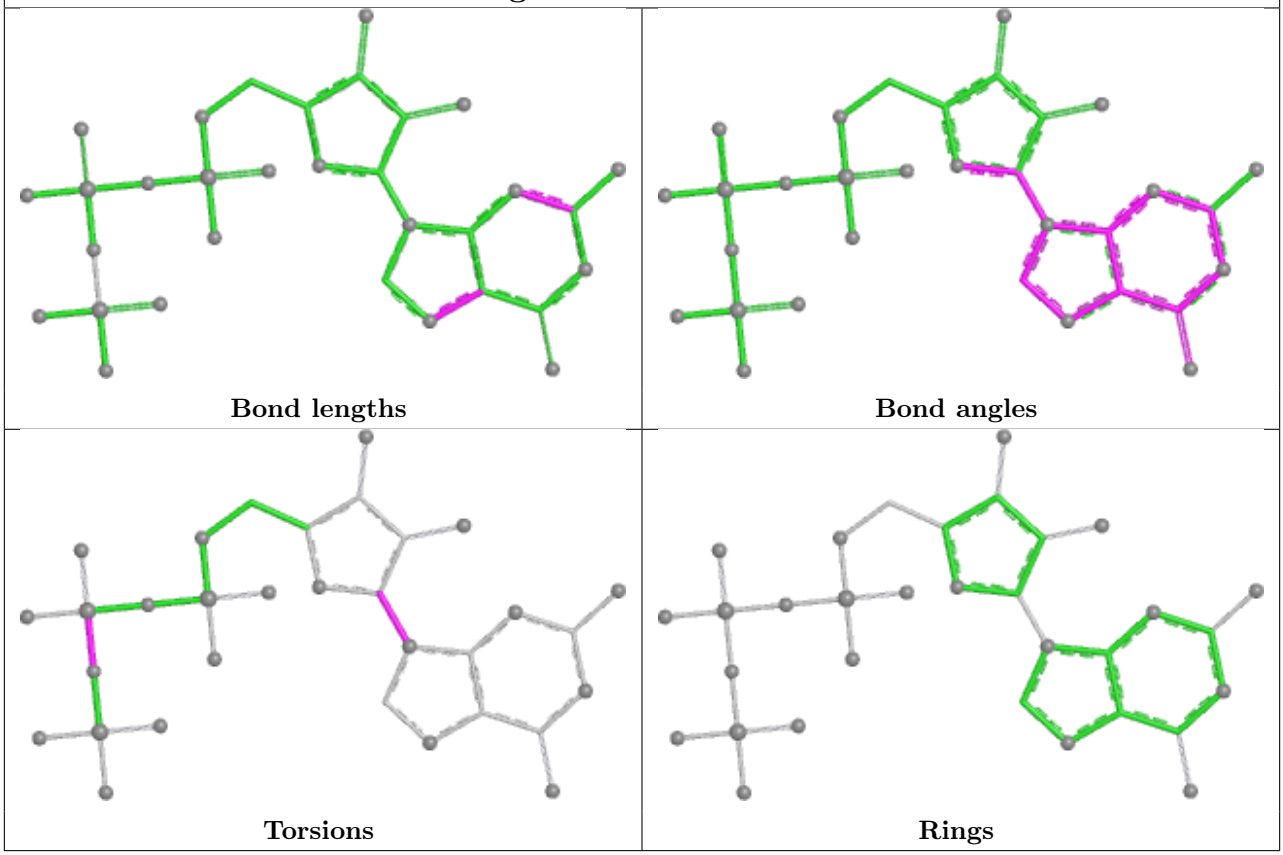


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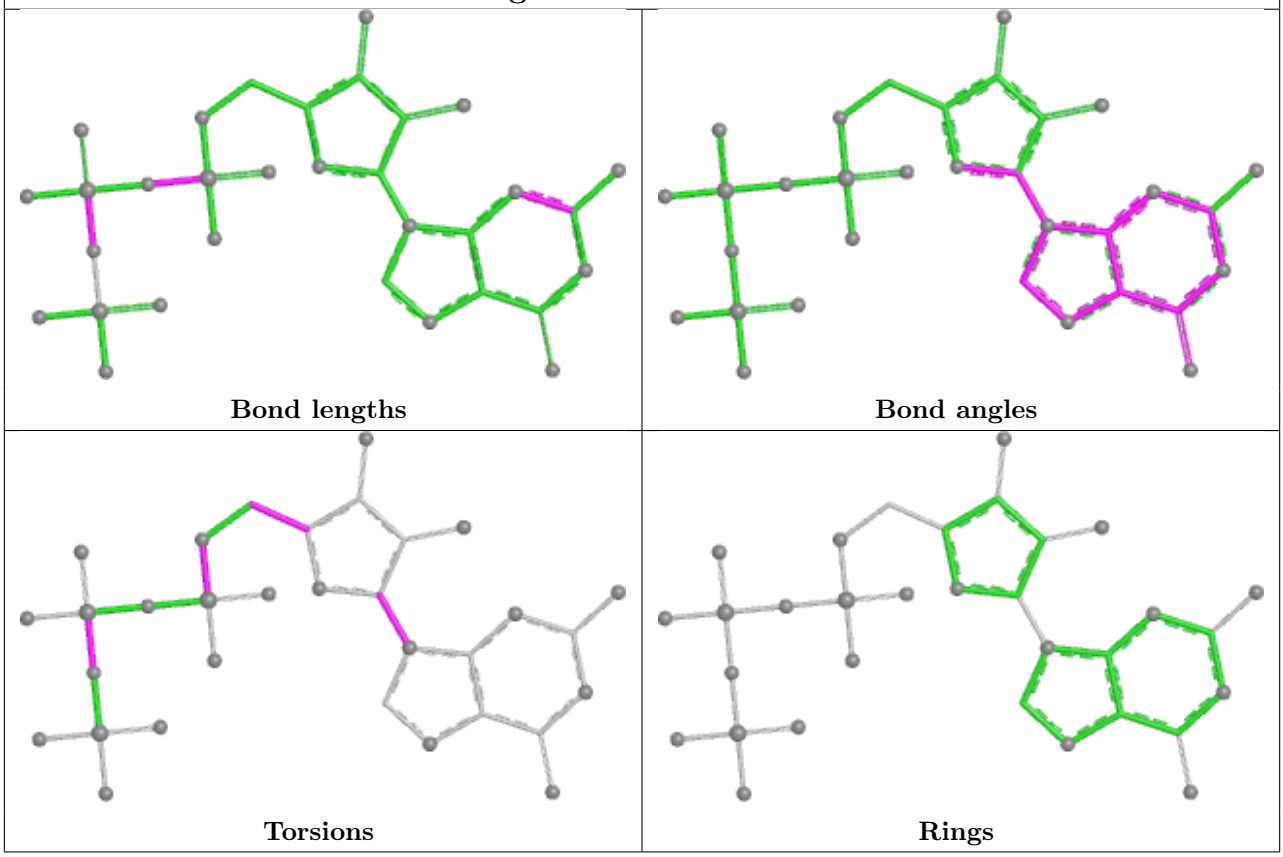


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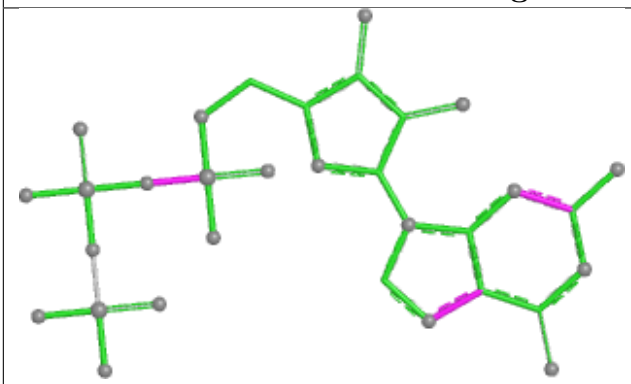
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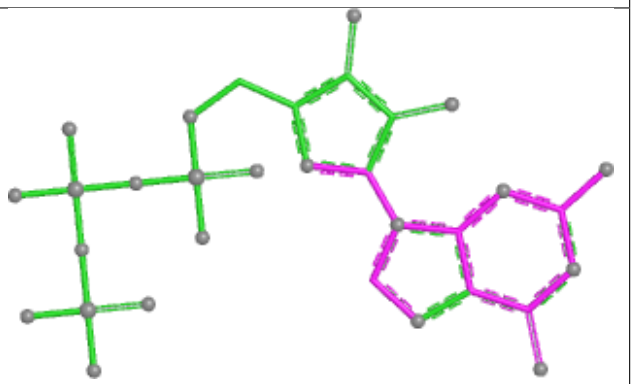
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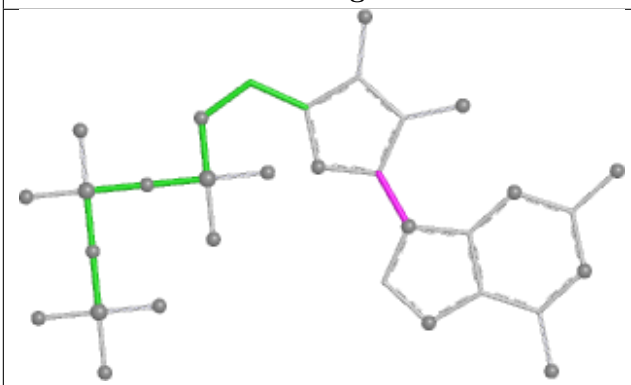
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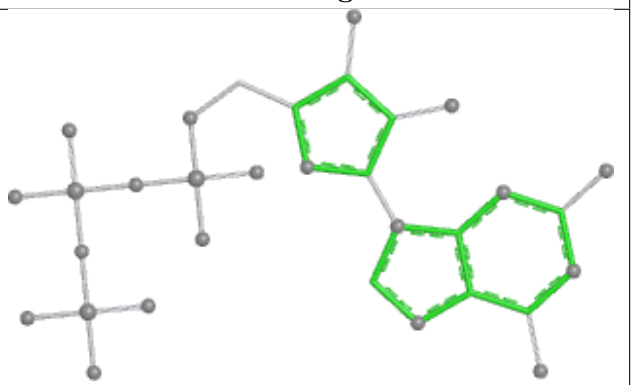
Bond lengths



Bond angles

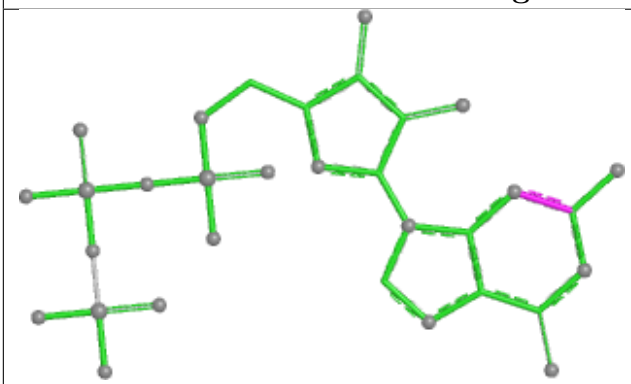


Torsions

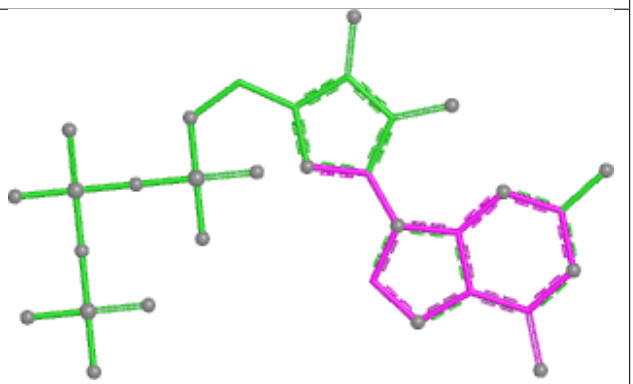


Rings

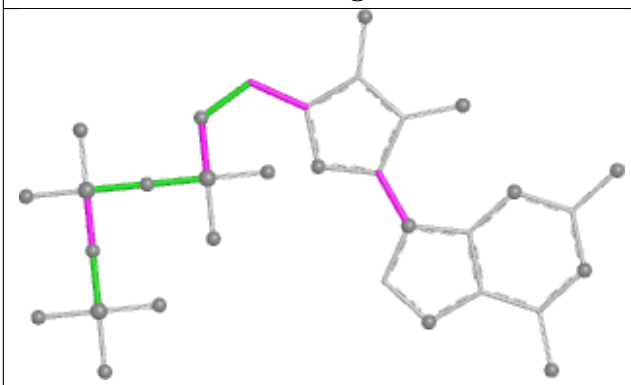
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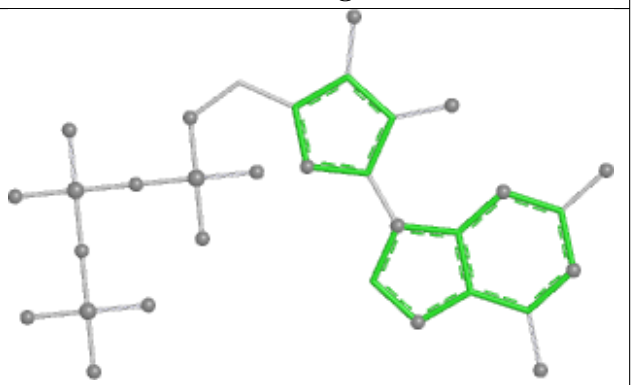
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Bond angles

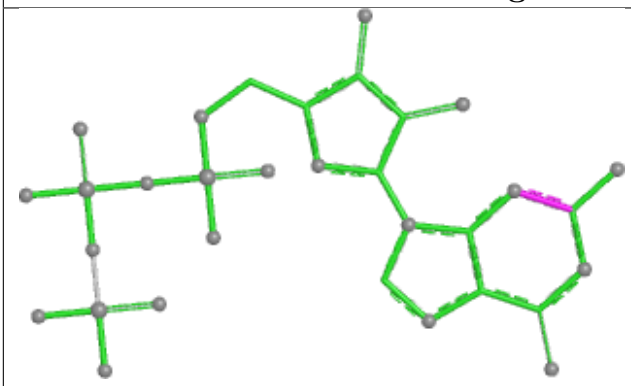


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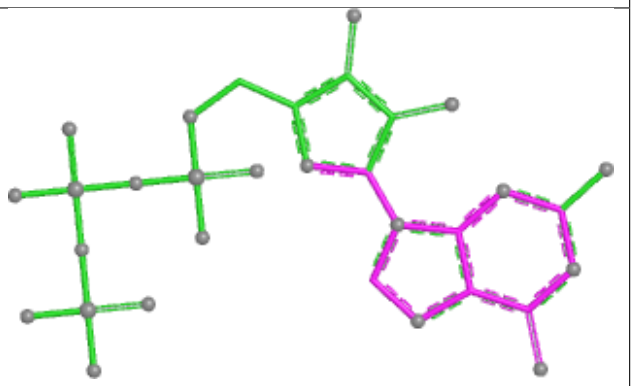


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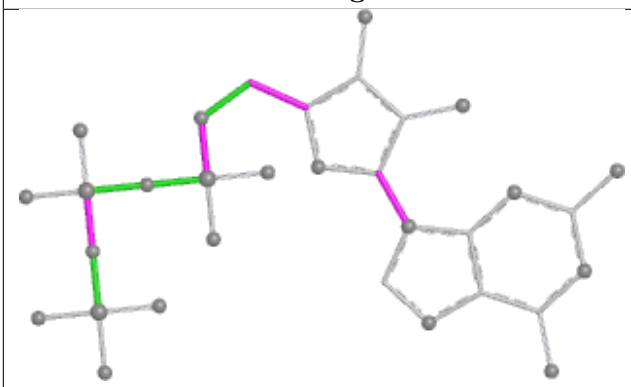
Ligand GTP OH 501



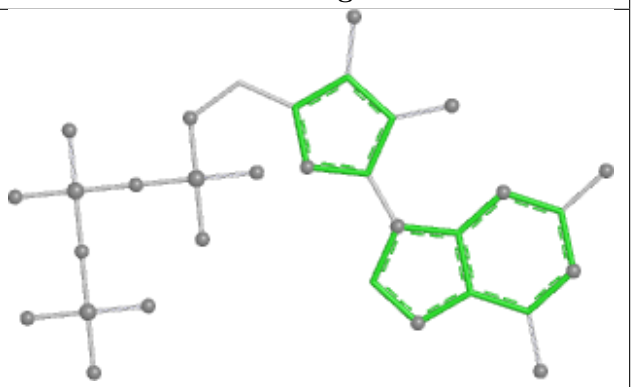
Bond lengths



Bond angles

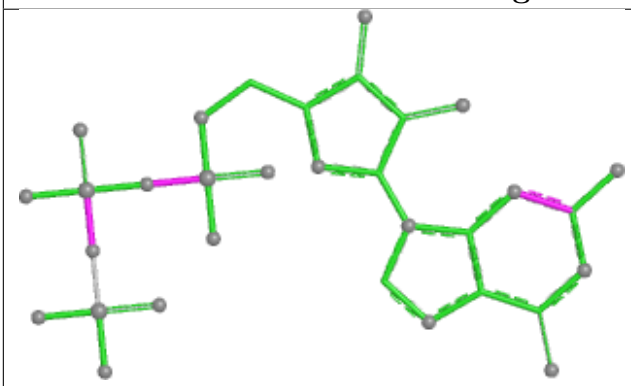


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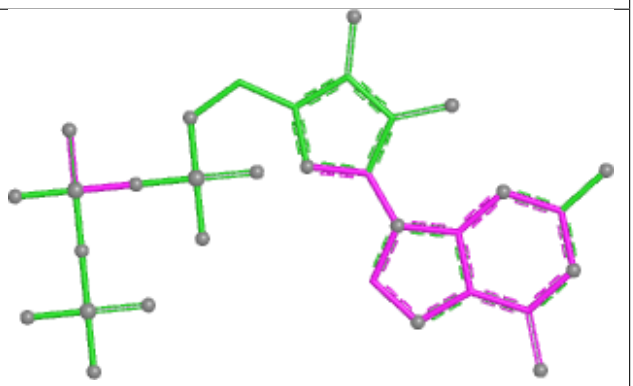


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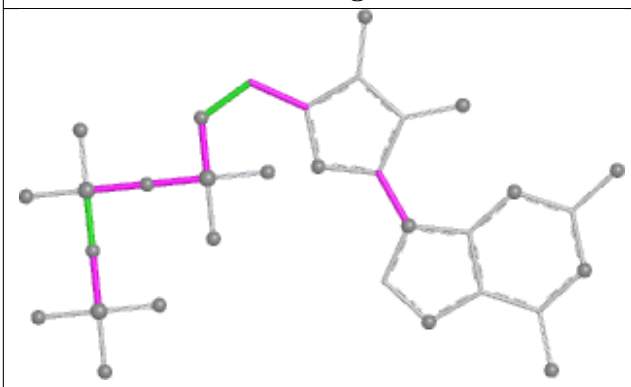
Ligand GTP JD 501



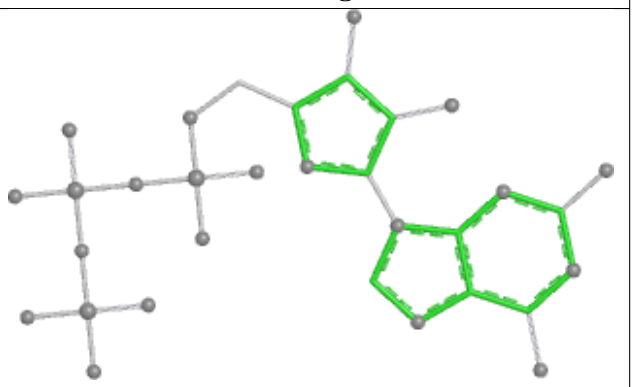
Bond lengths



Bond angles

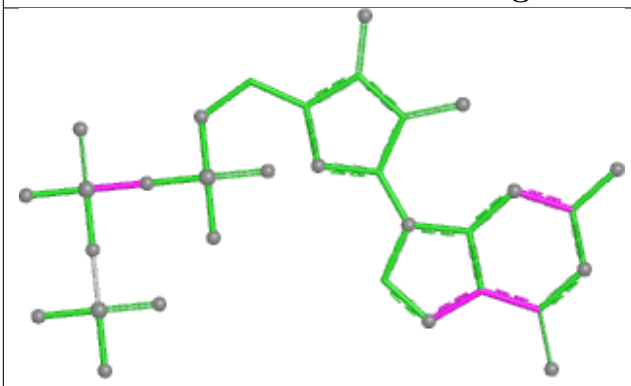


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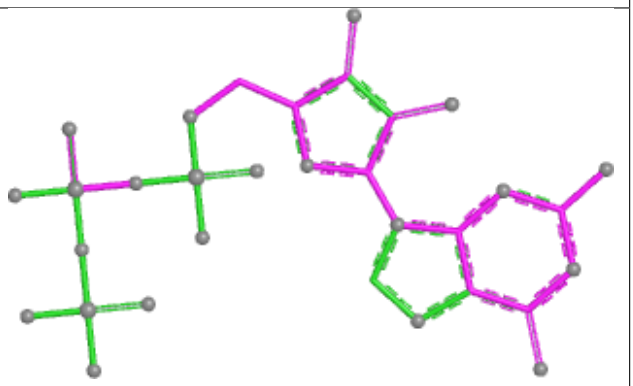


Rings

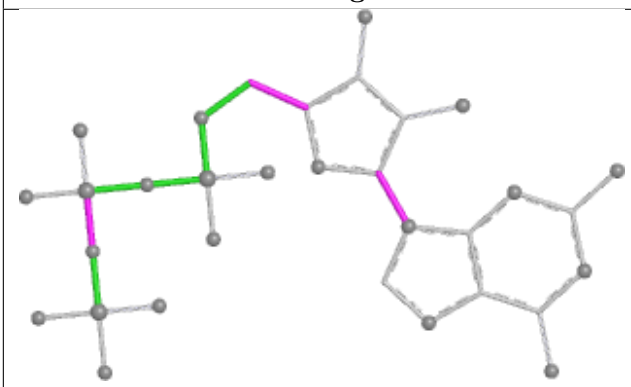
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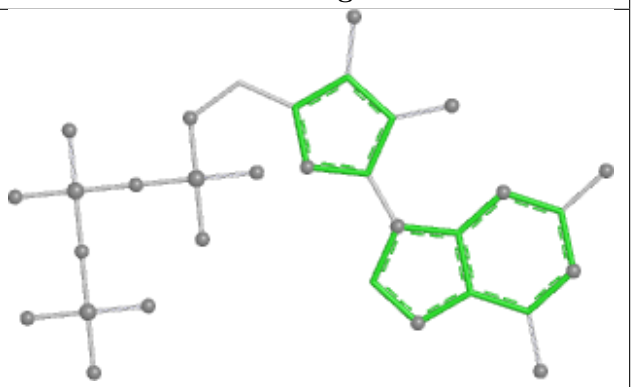
Bond lengths



Bond angles

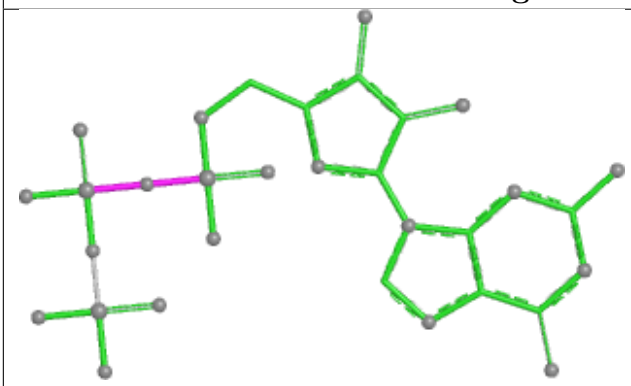


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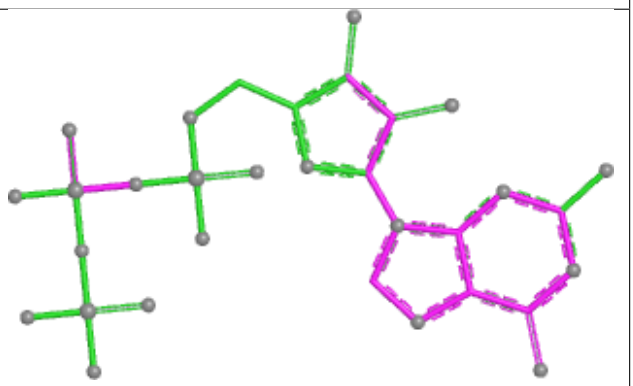


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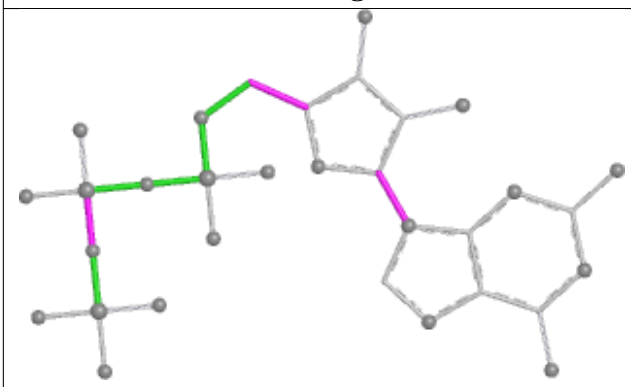
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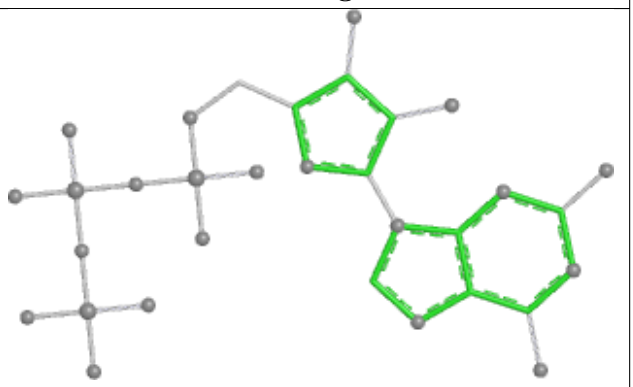
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Bond angles

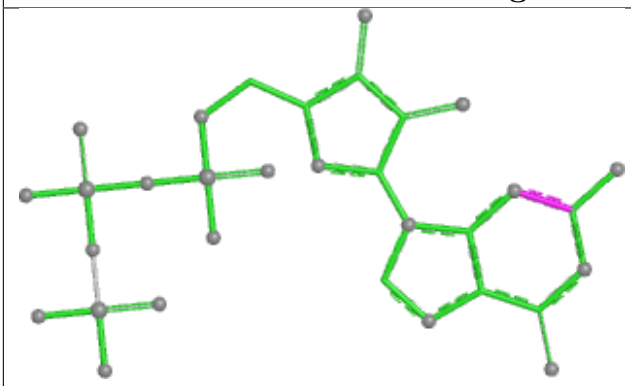


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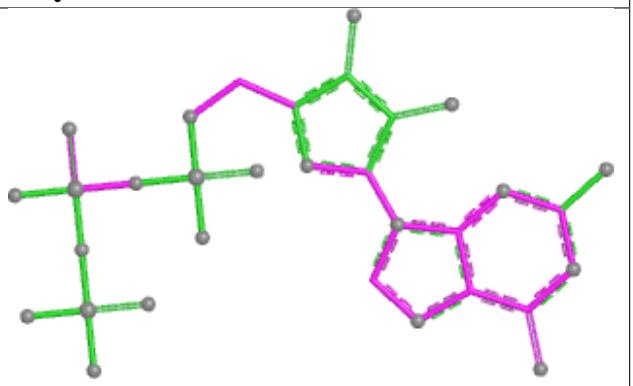


Rings

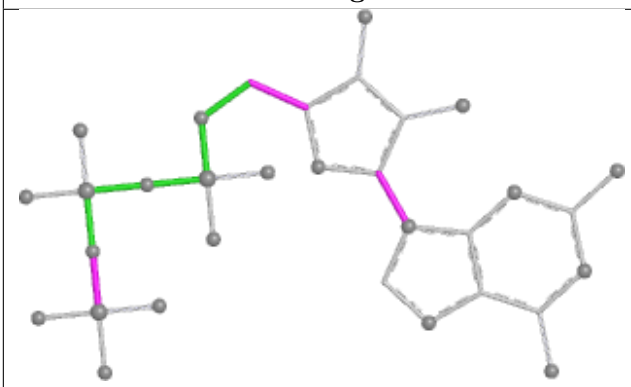
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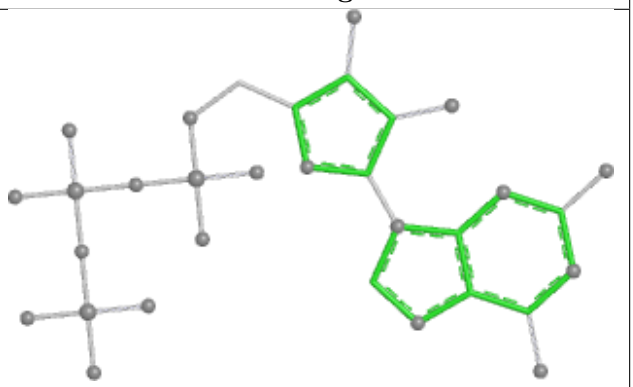
Bond lengths



Bond angles

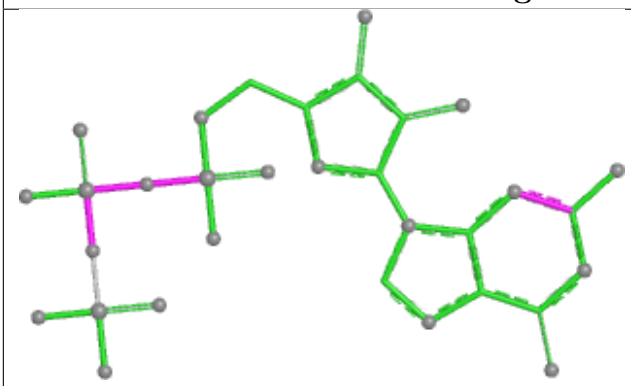


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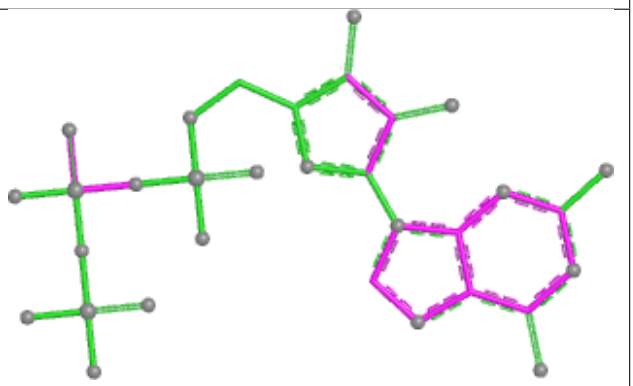


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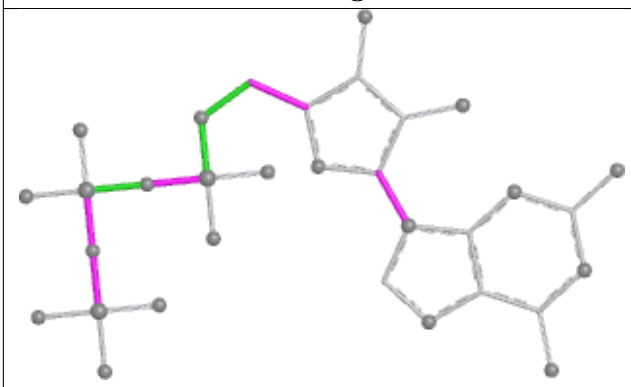
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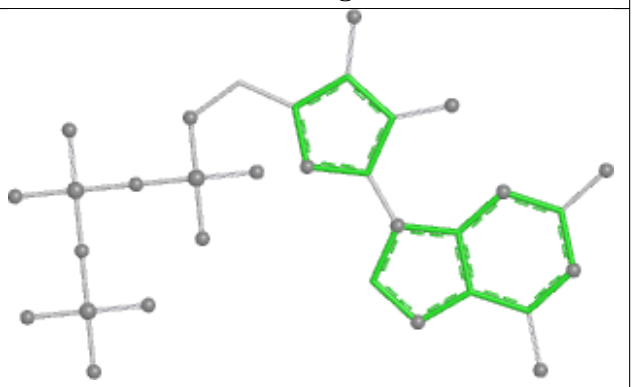
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Bond angles

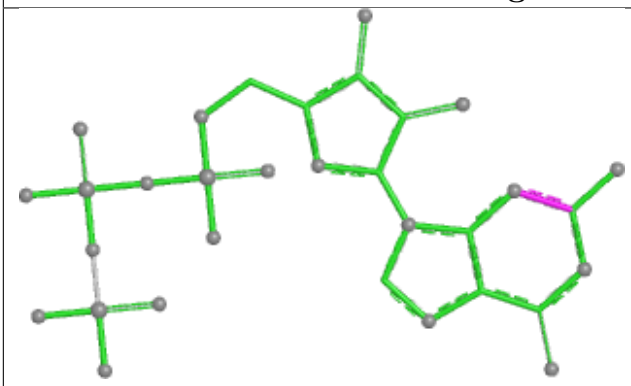


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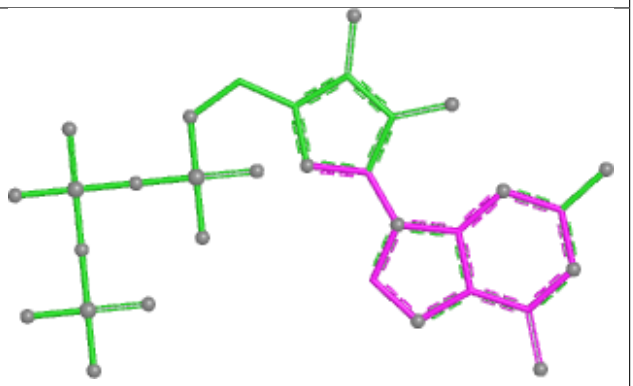


Rings

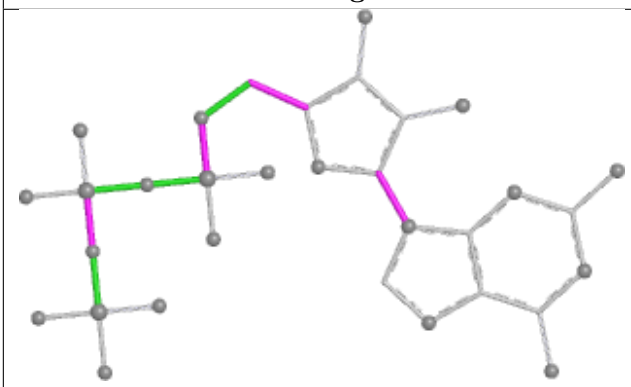
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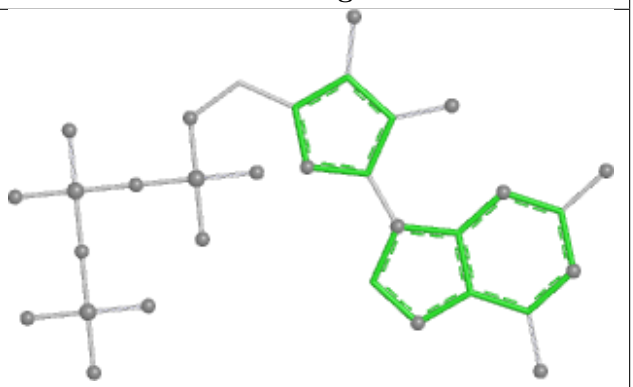
Bond lengths



Bond angles

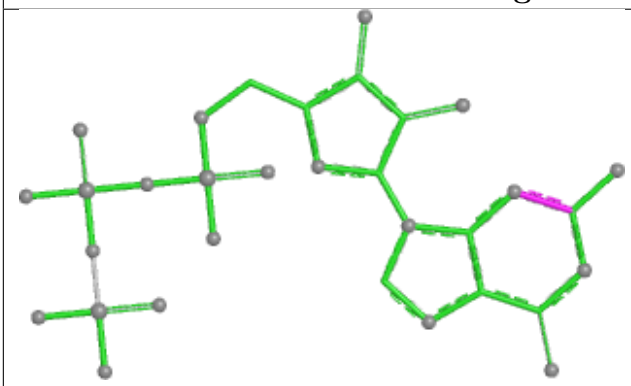


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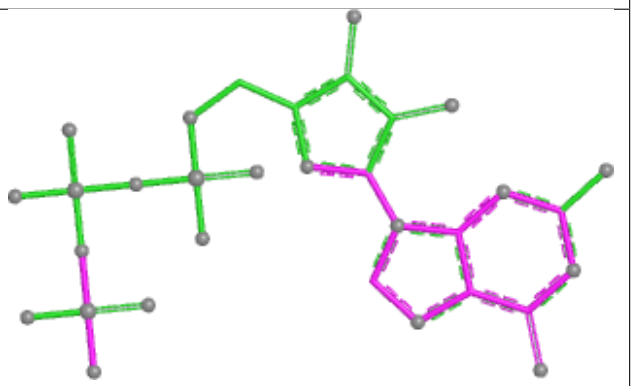


Rings

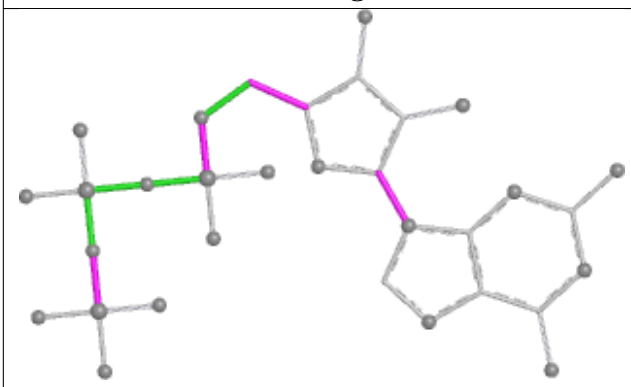
Ligand GTP LF 501



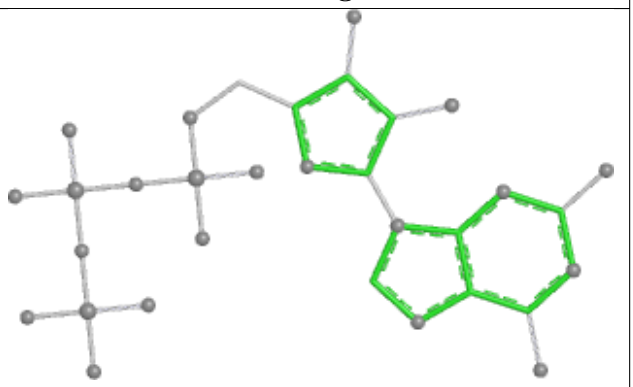
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Bond angles

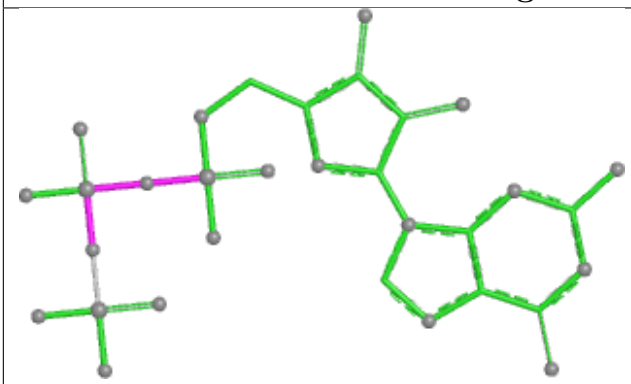


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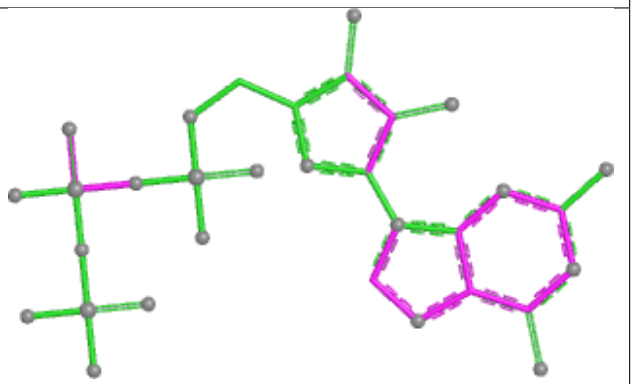


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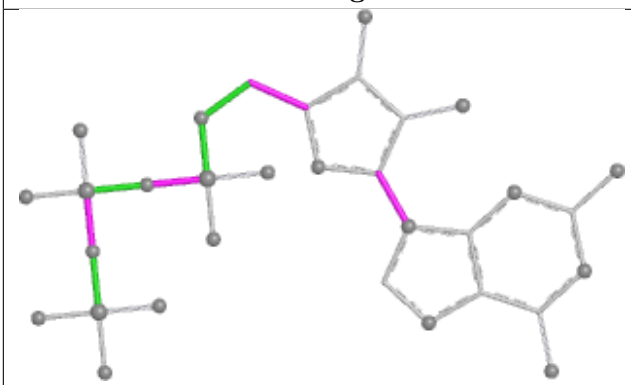
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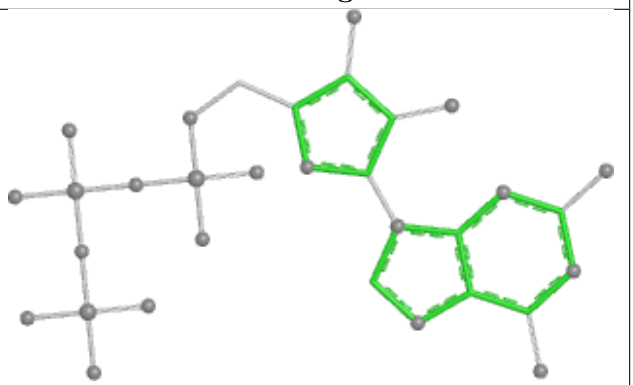
Bond lengths



Bond angles

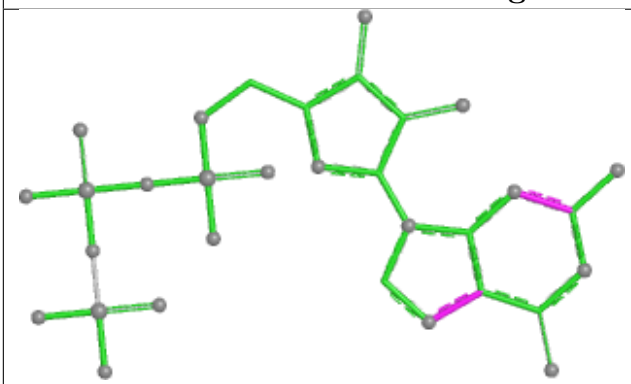


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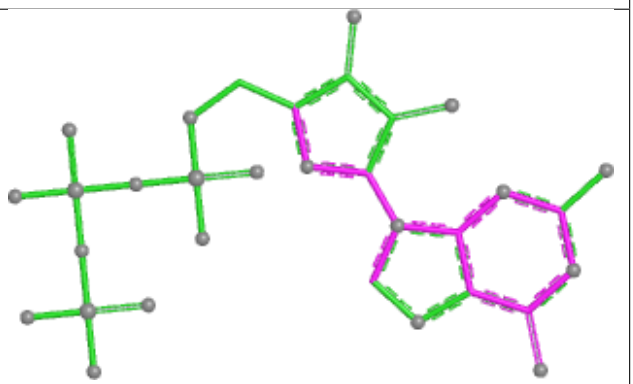


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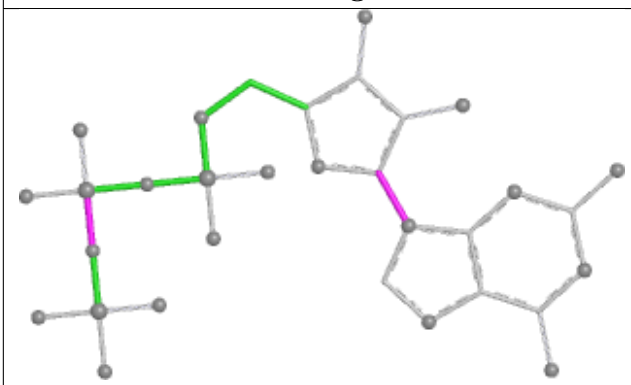
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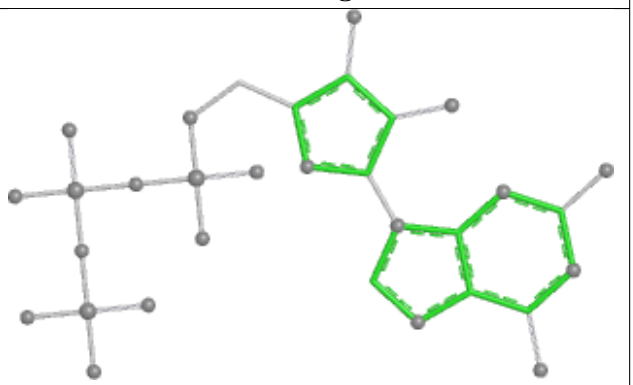
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Bond angles

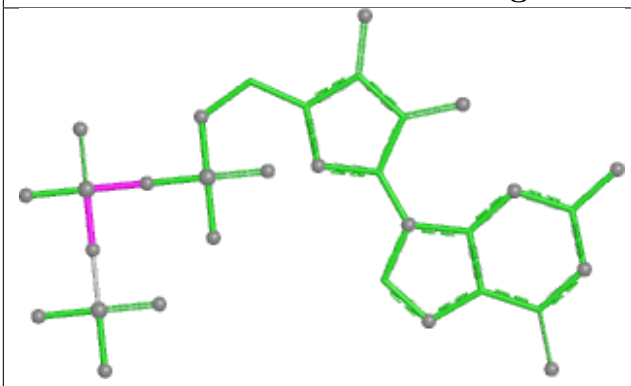


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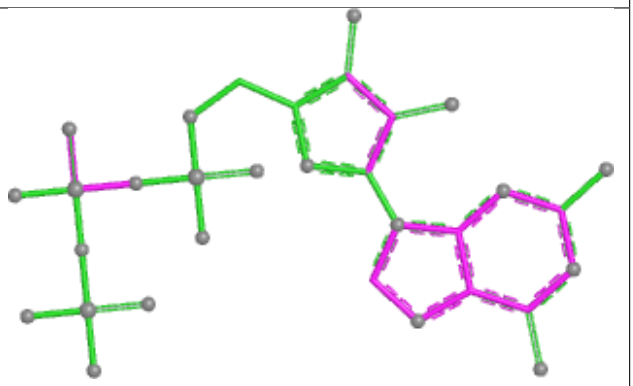


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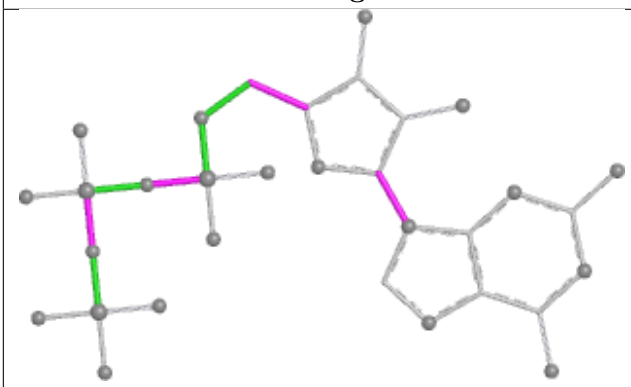
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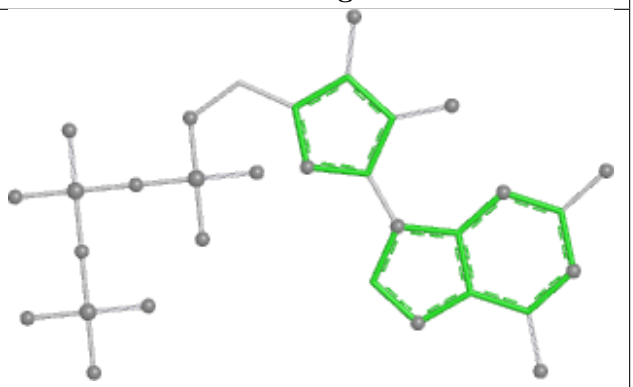
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Bond angles

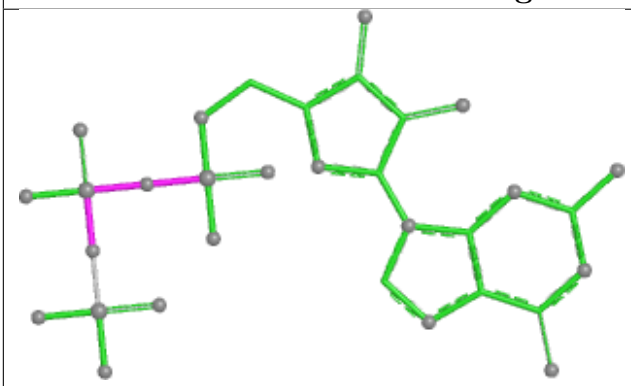


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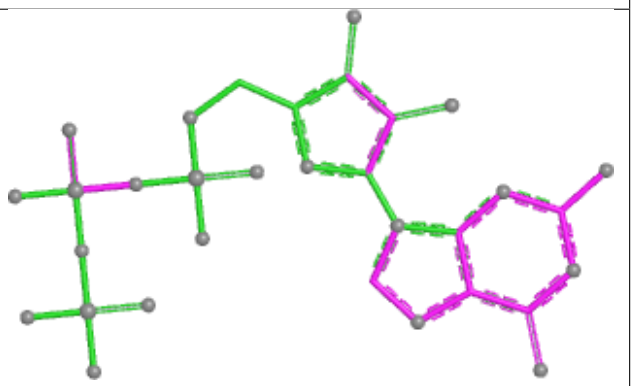


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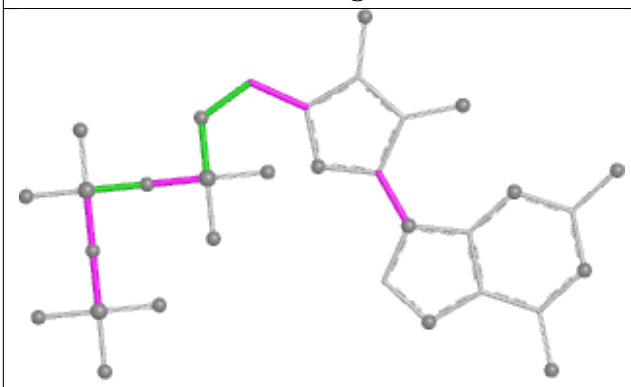
Ligand GTP NI 501



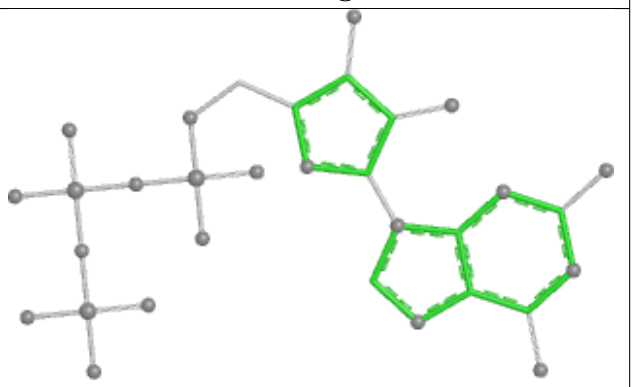
Bond lengths



Bond angles

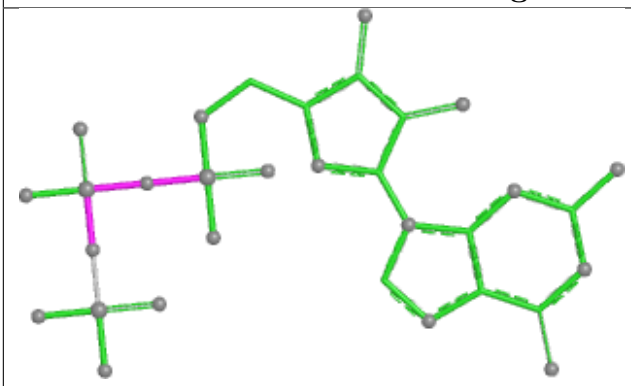


Torsions

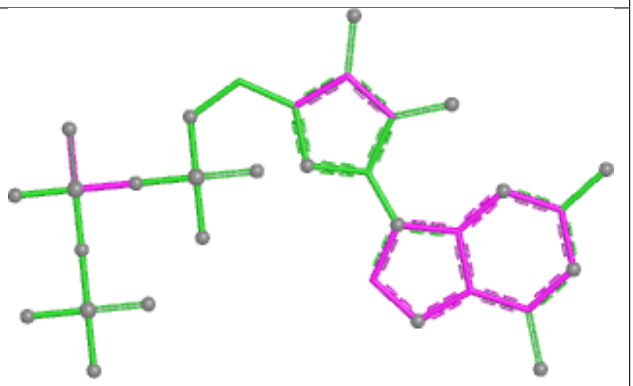


Rings

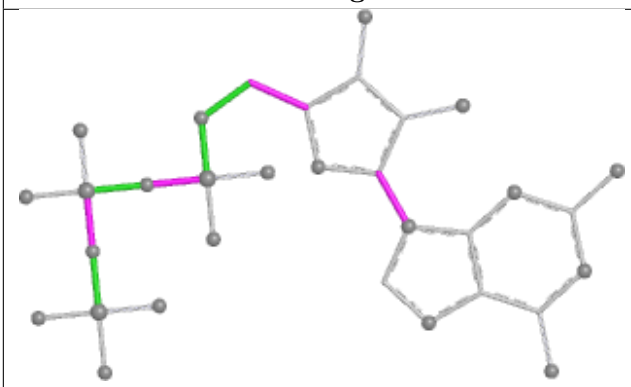
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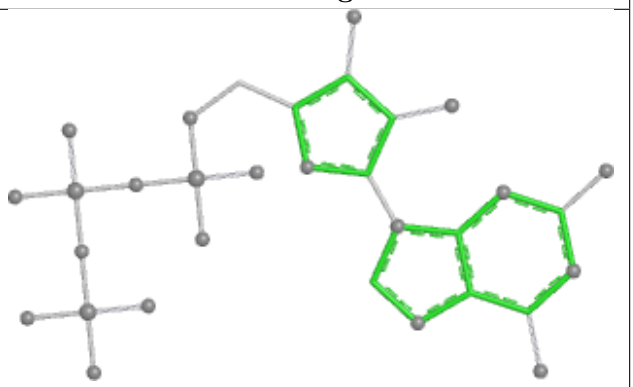
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Bond angles

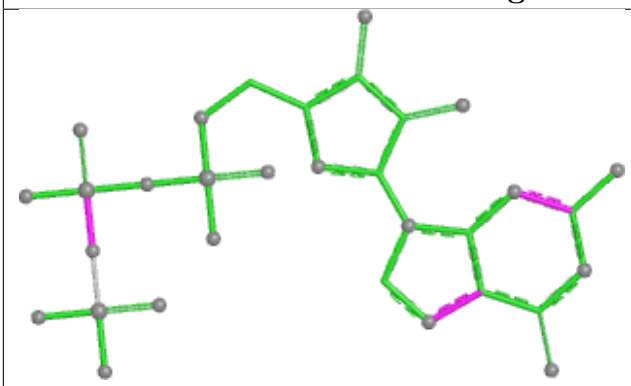


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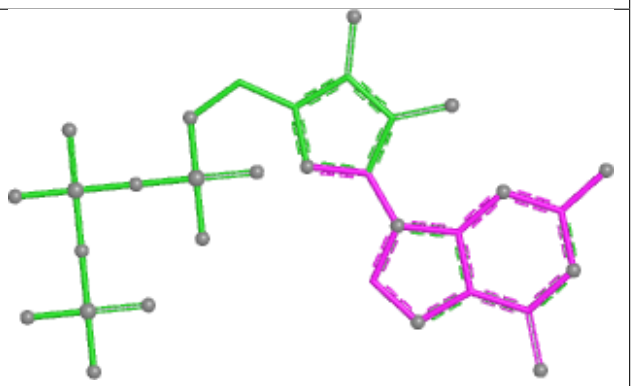


Rings

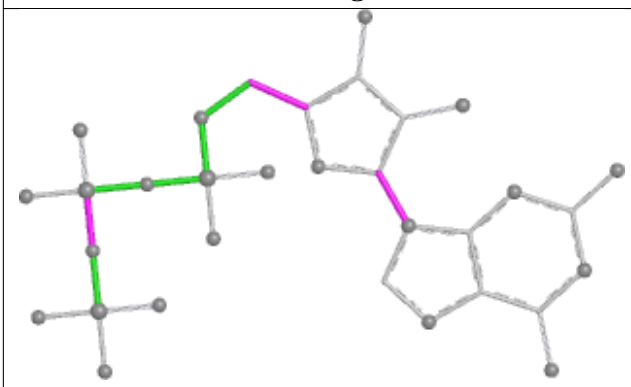
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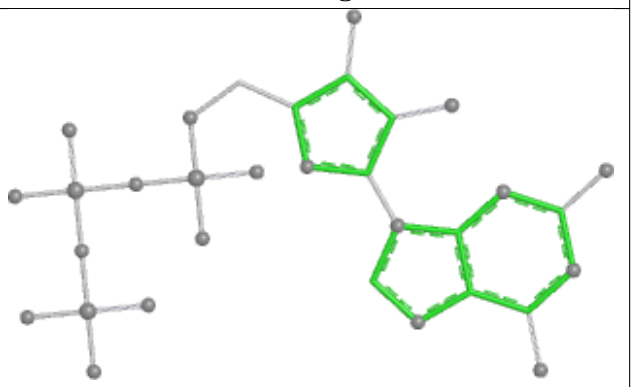
Bond lengths



Bond angles

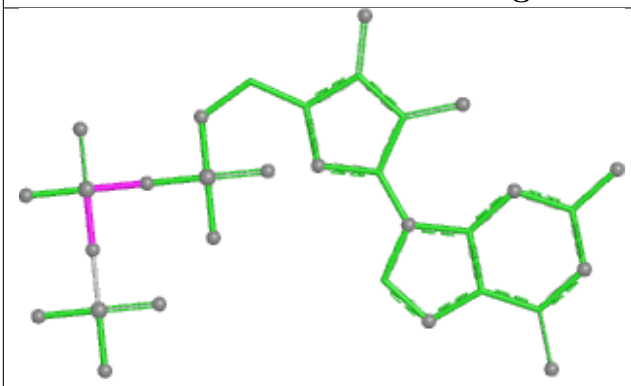


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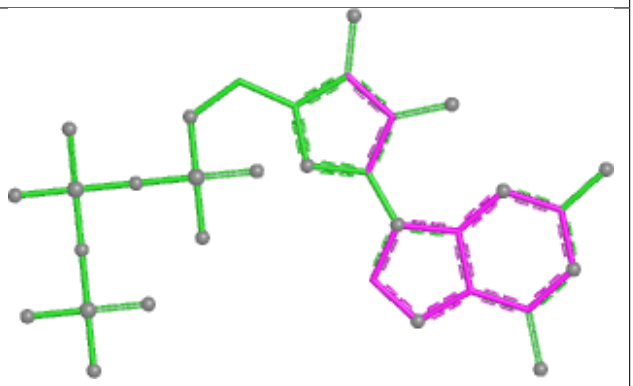


Rings

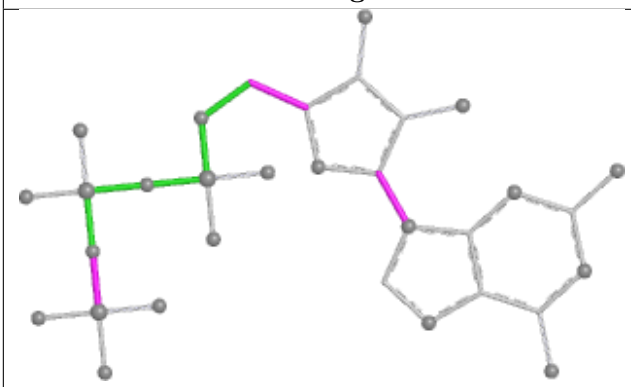
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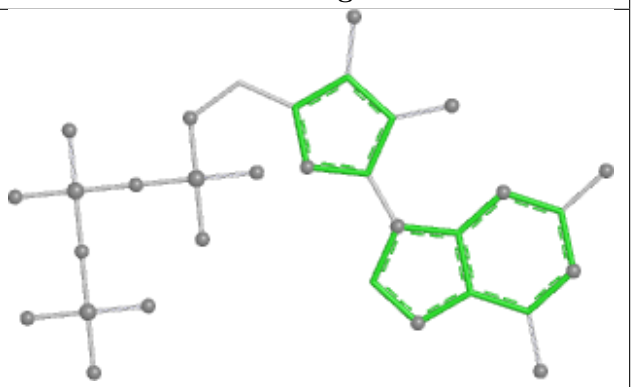
Bond lengths



Bond angles

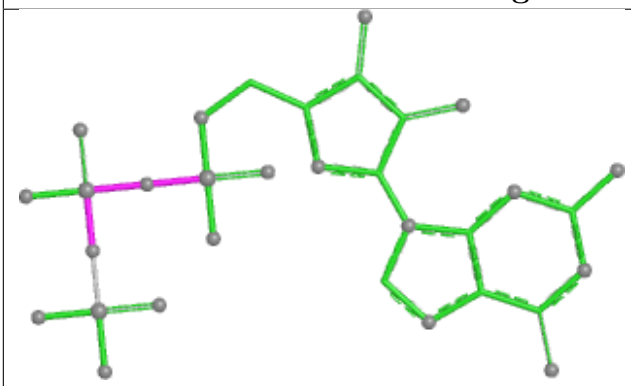


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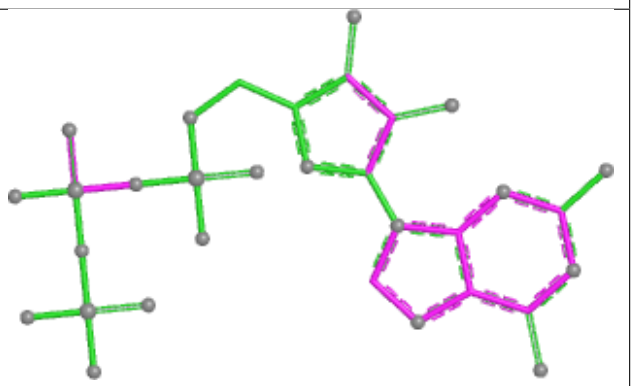


Rings

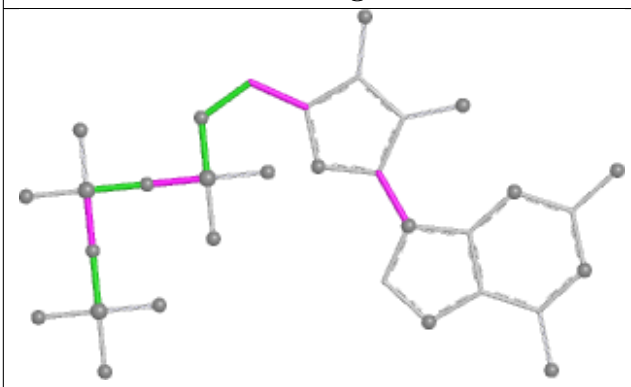
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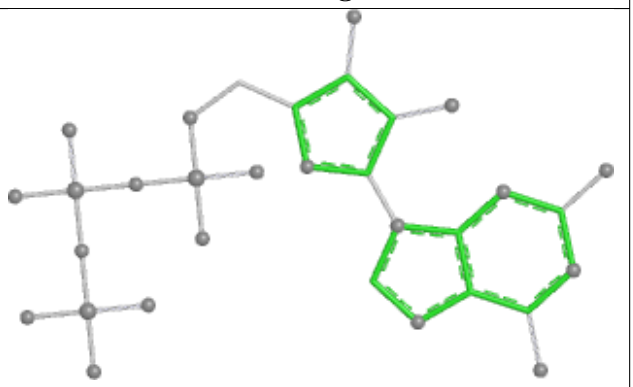
Bond lengths



Bond angles

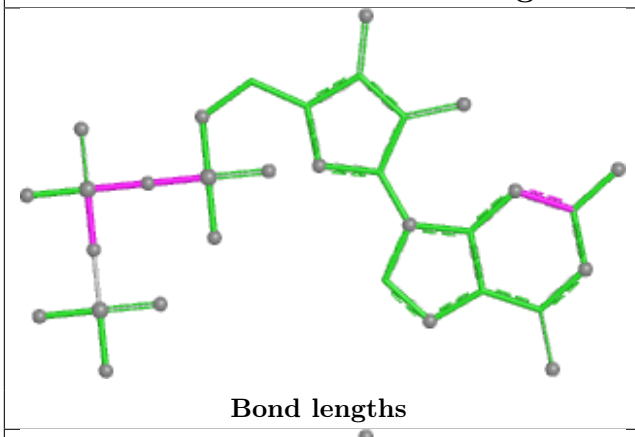


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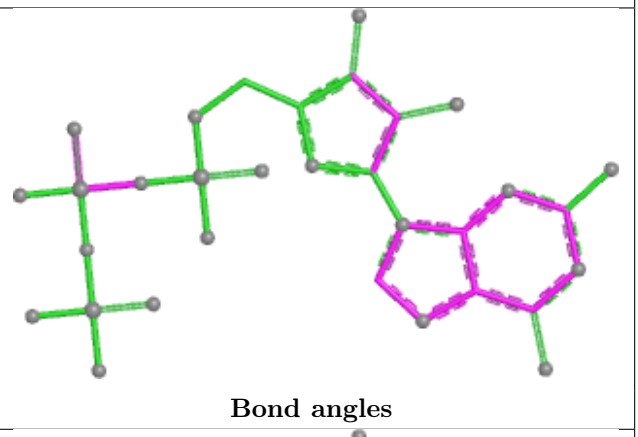


Rings

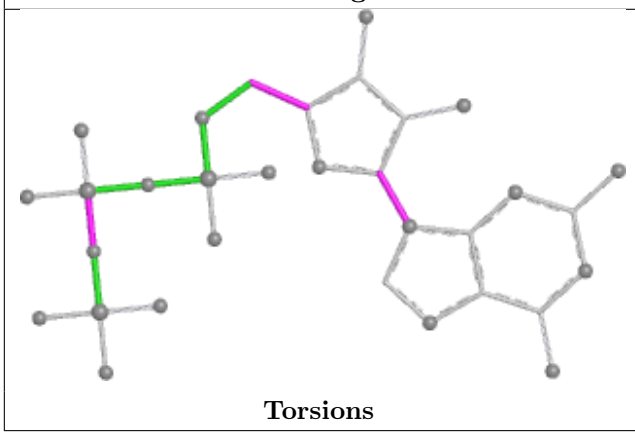
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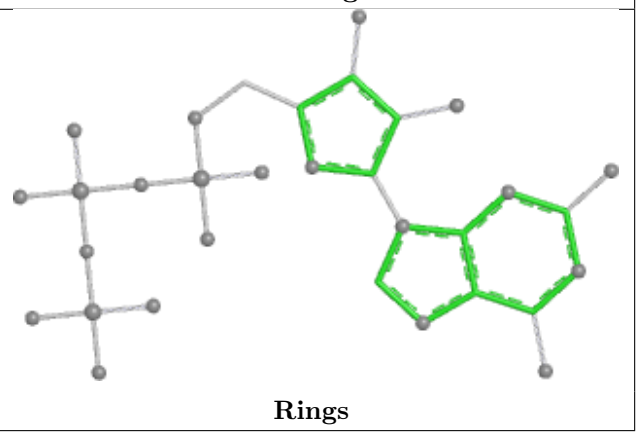
Bond lengths



Bond angles

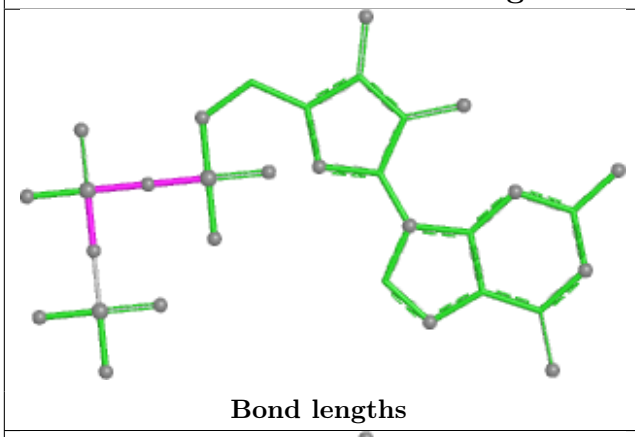


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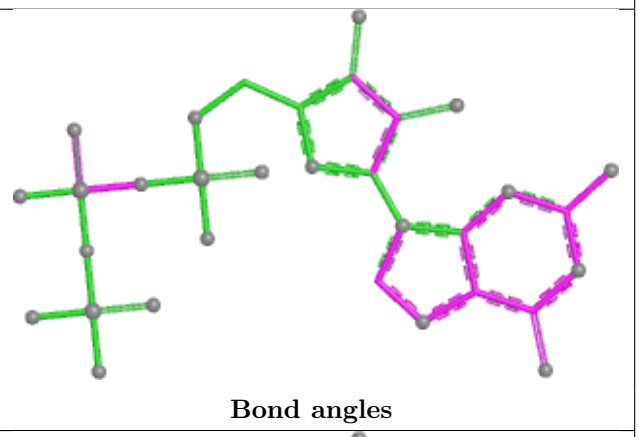


Rings

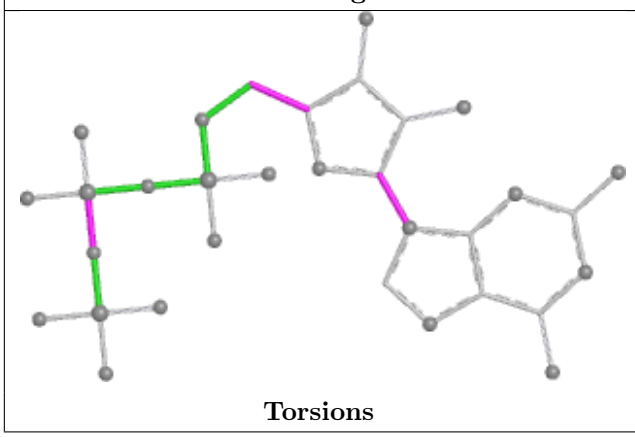
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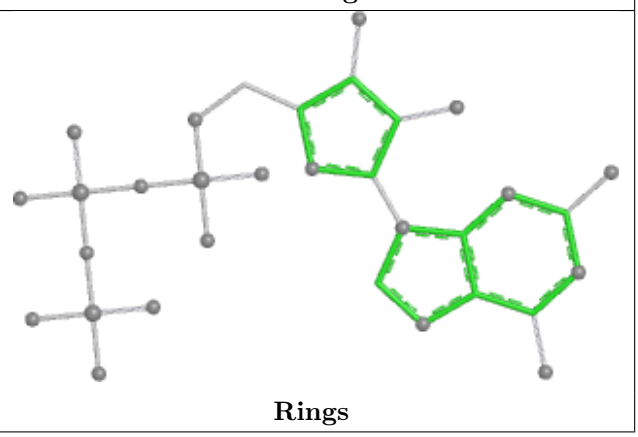
Bond lengths



Bond angles

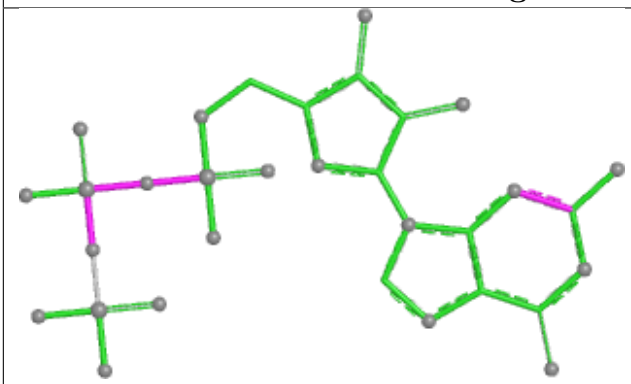


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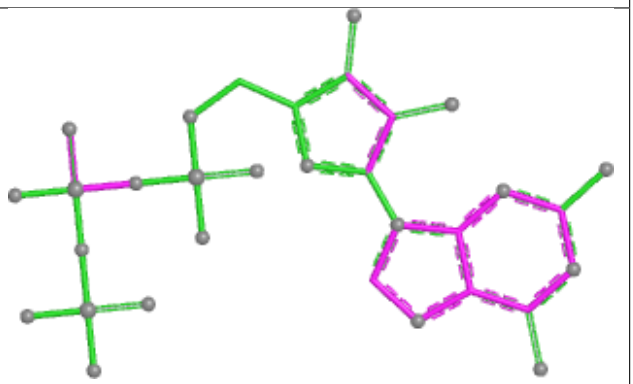


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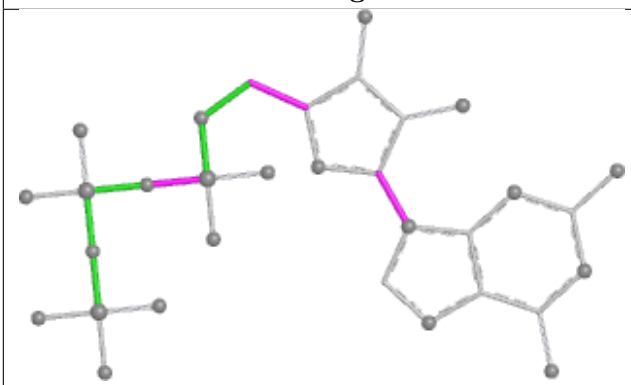
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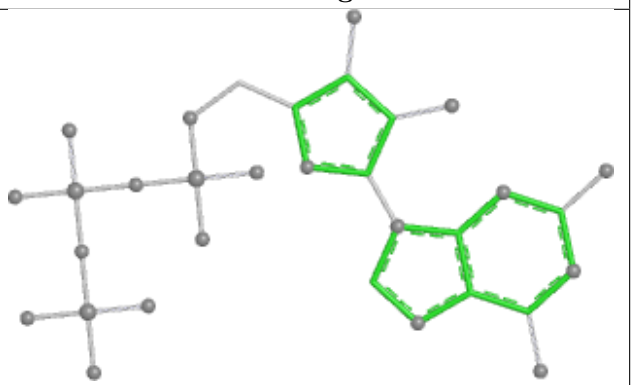
Bond lengths



Bond angles

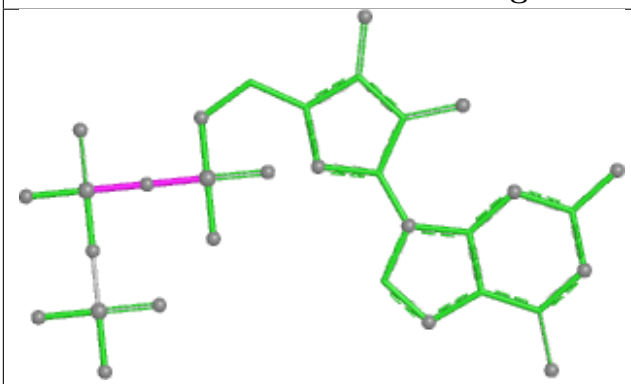


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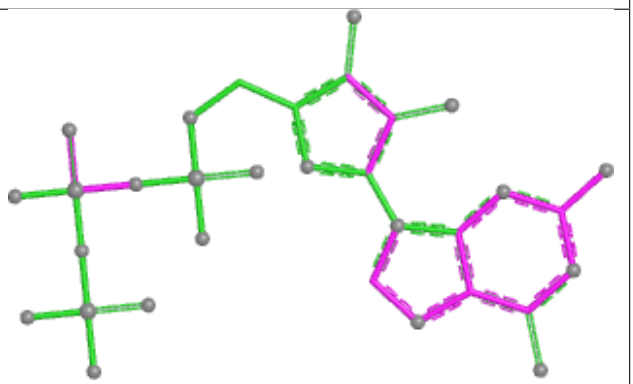


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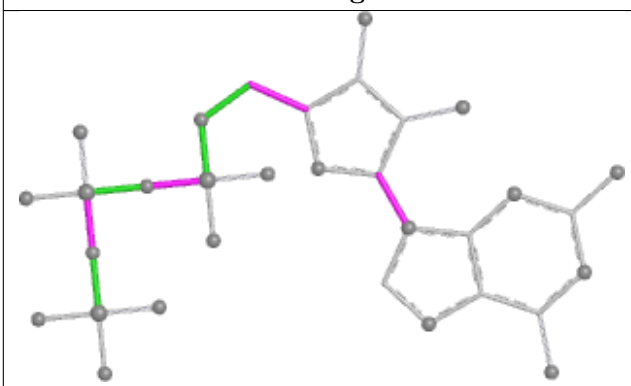
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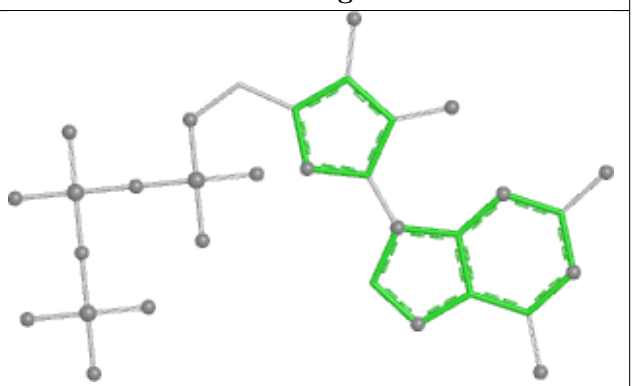
Bond lengths



Bond angles

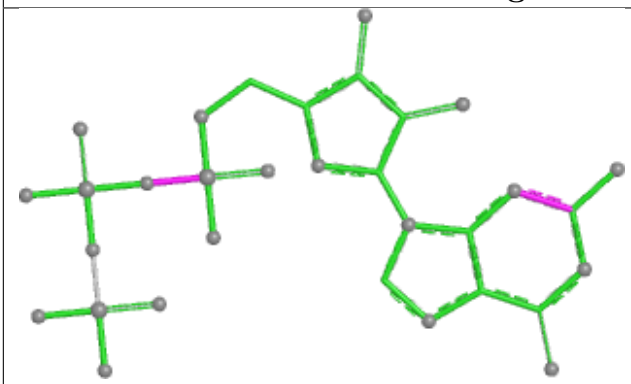


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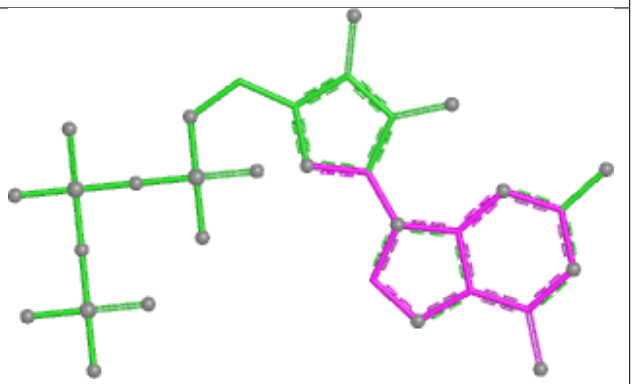


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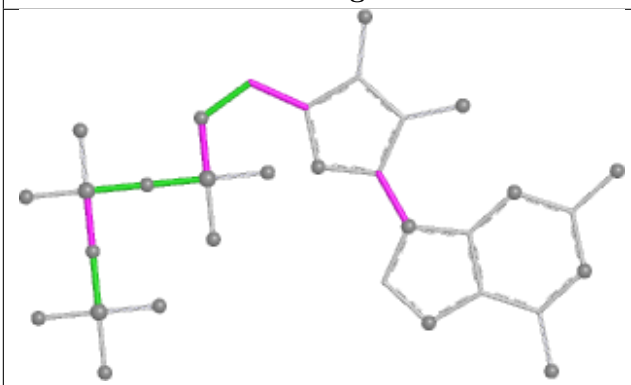
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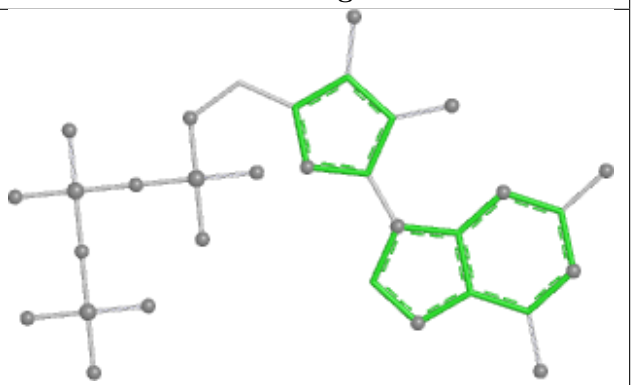
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Bond angles

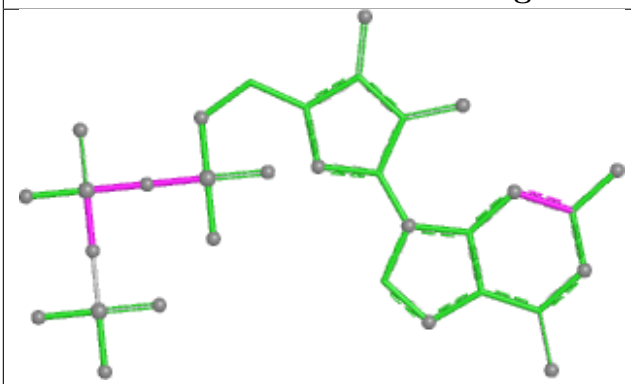


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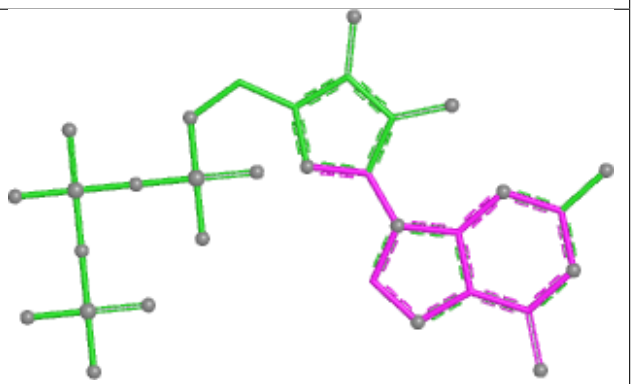


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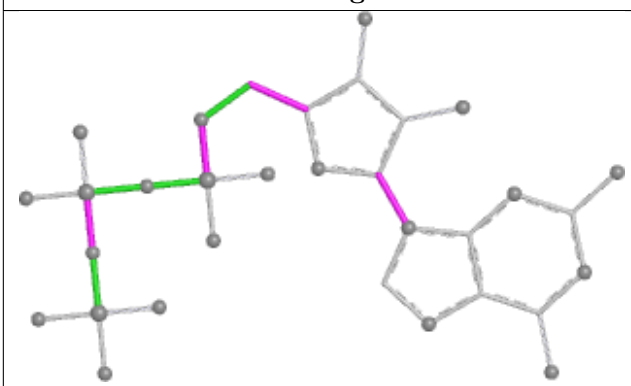
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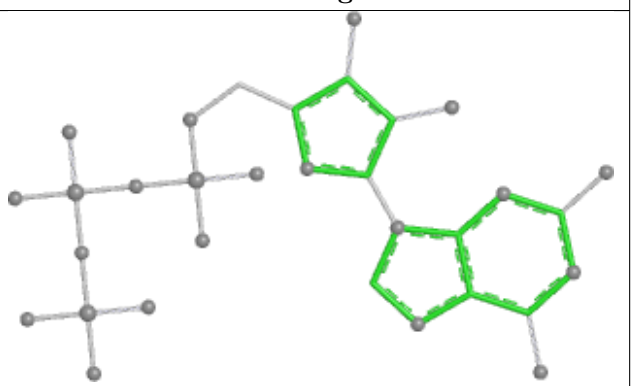
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Bond angles

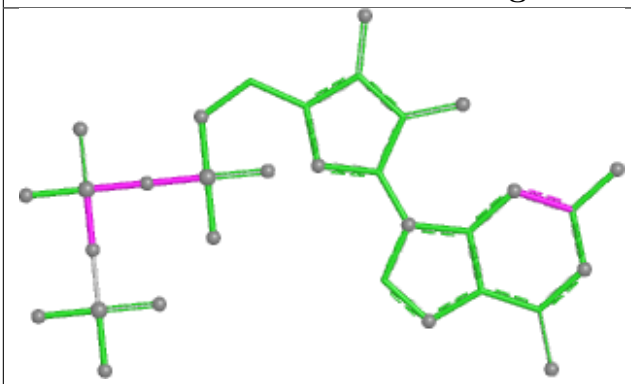


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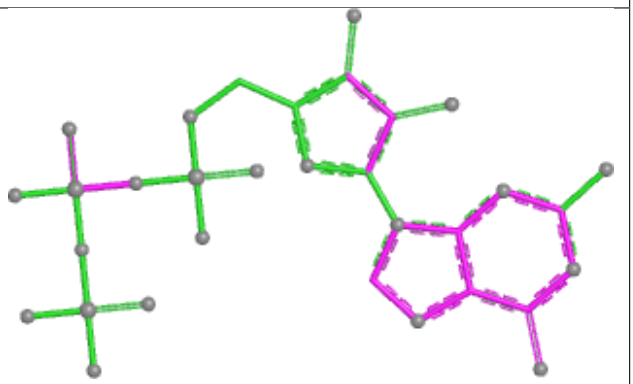


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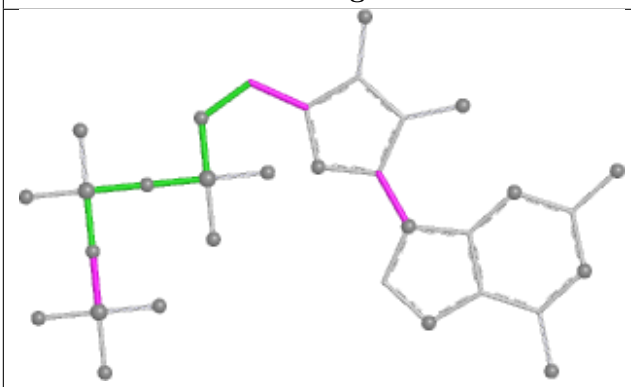
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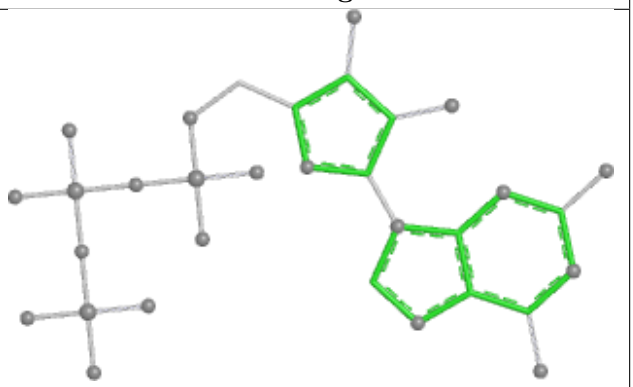
Bond lengths



Bond angles

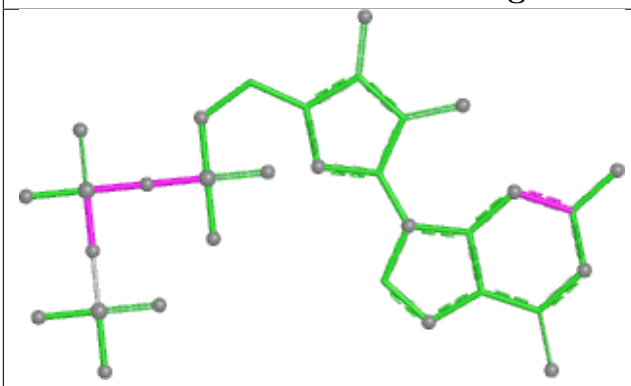


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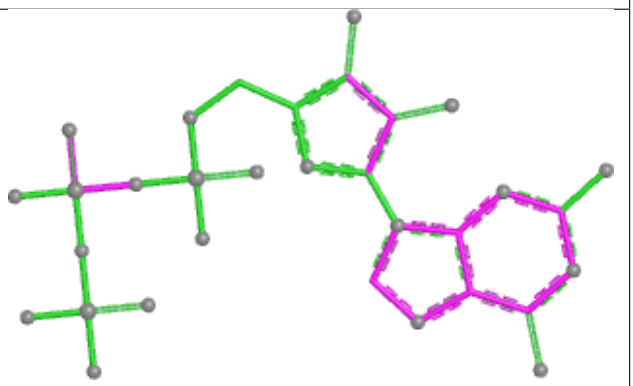


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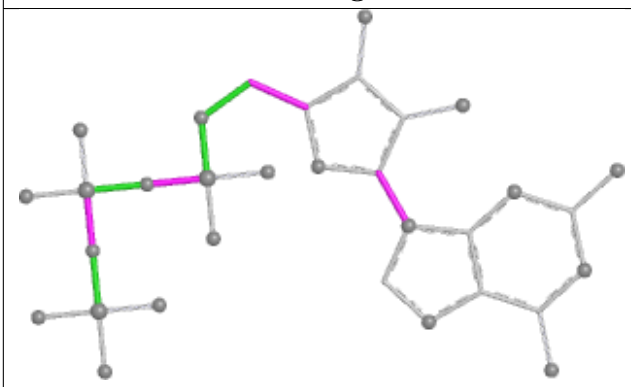
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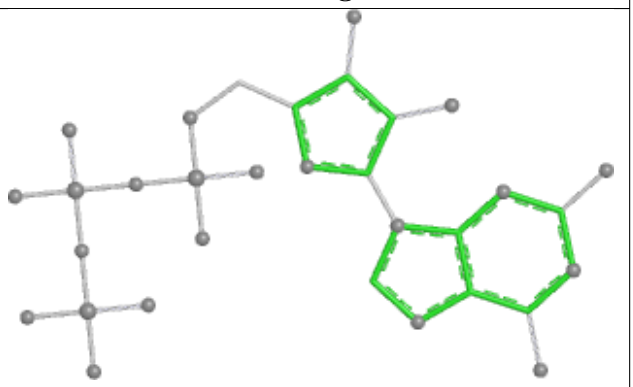
Bond lengths



Bond angles

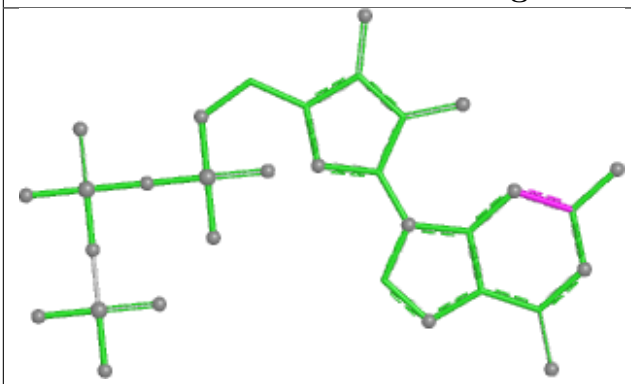


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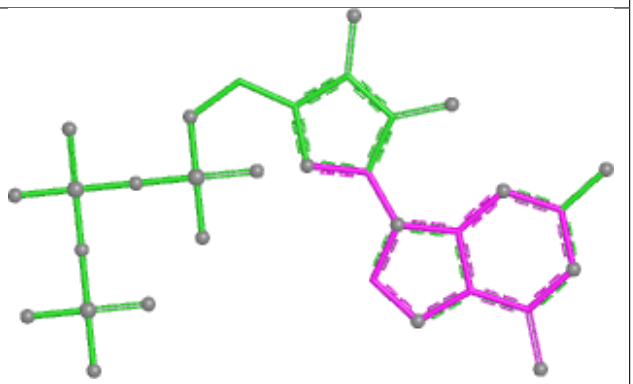


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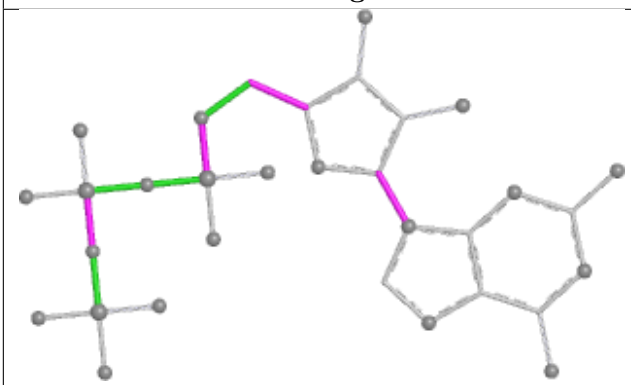
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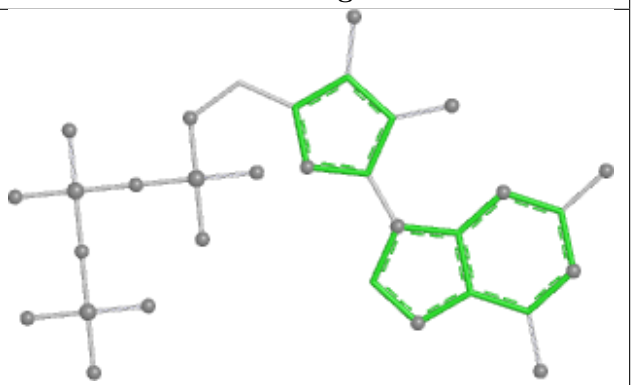
Bond lengths



Bond angles

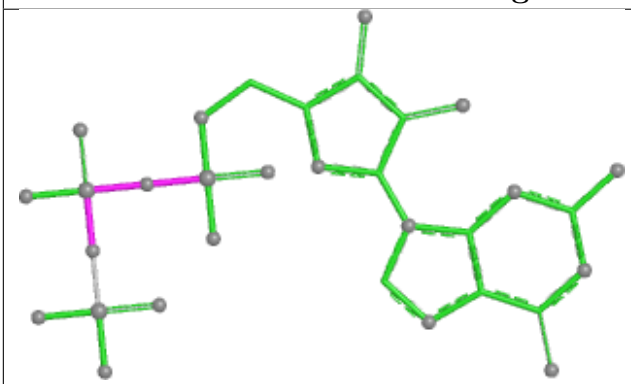


Torsions

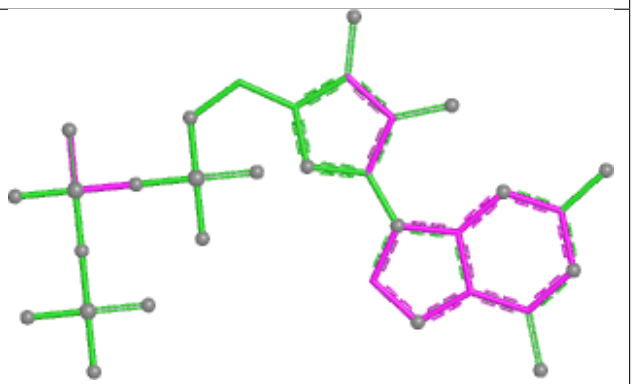


Rings

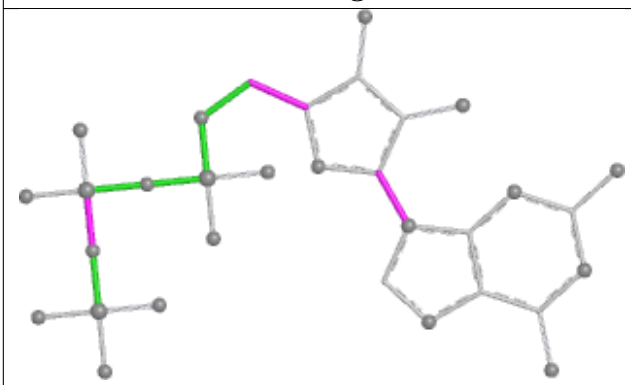
Ligand GTP PE 501



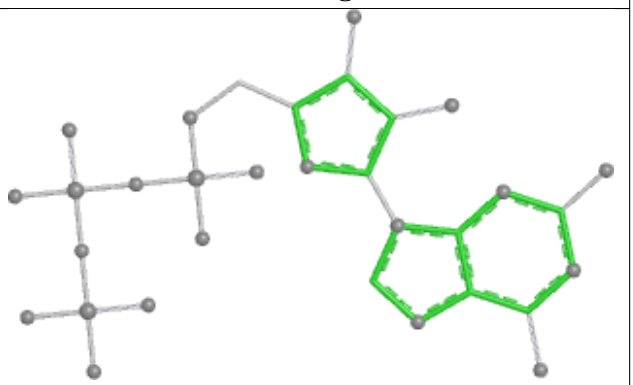
Bond lengths



Bond angles

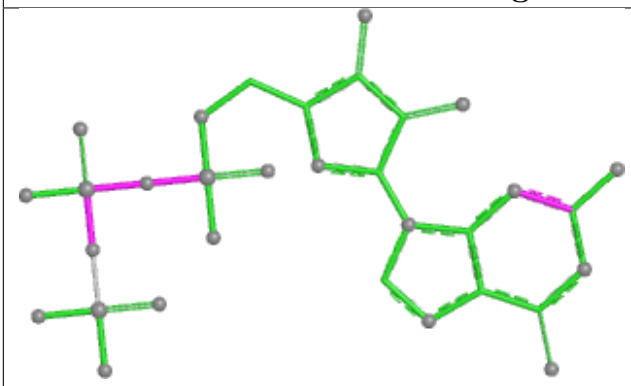


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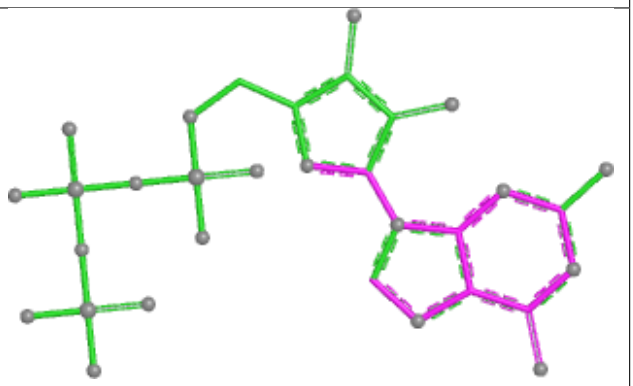


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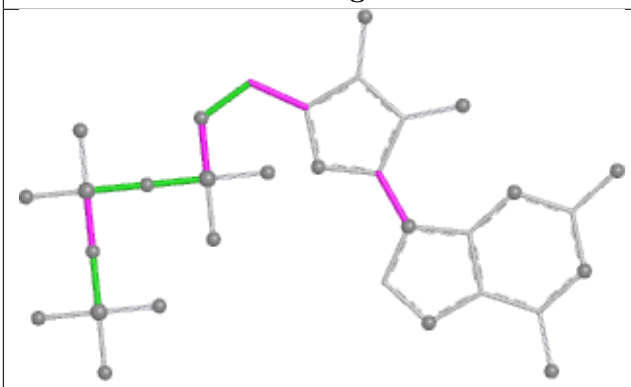
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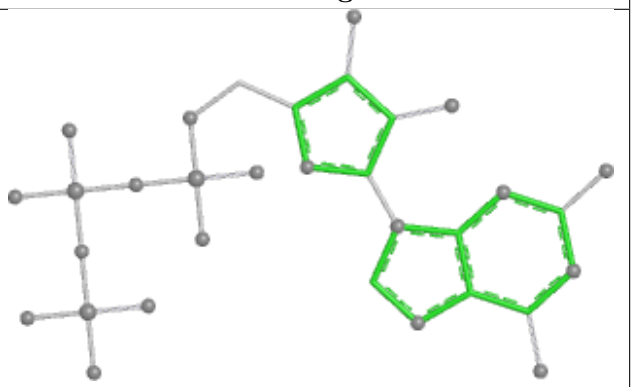
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Bond angles

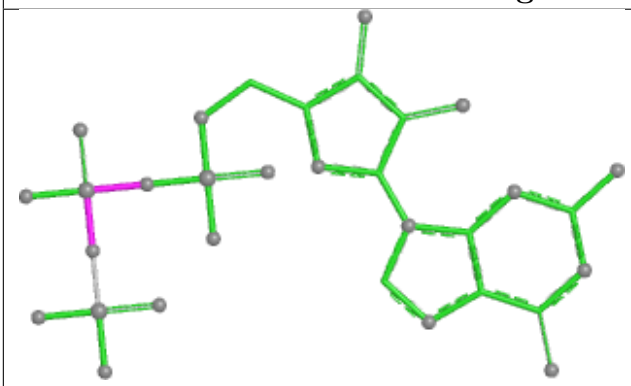


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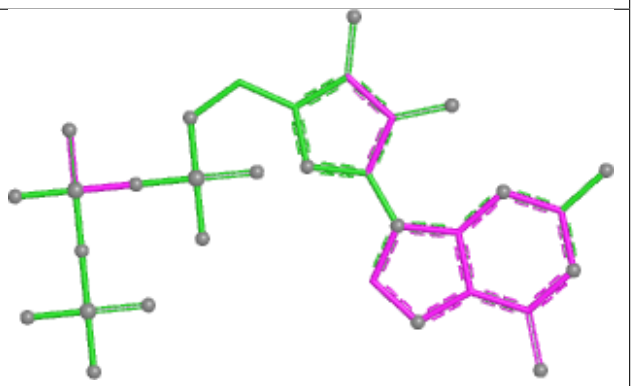


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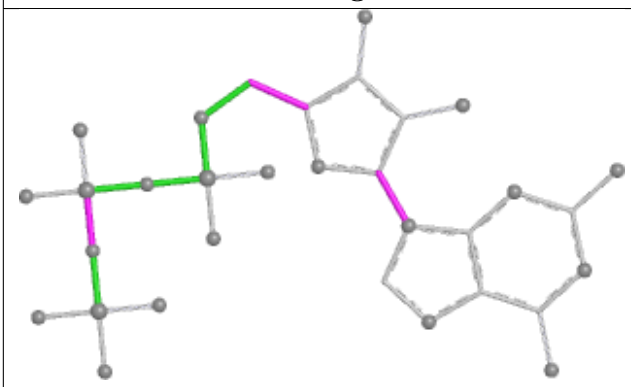
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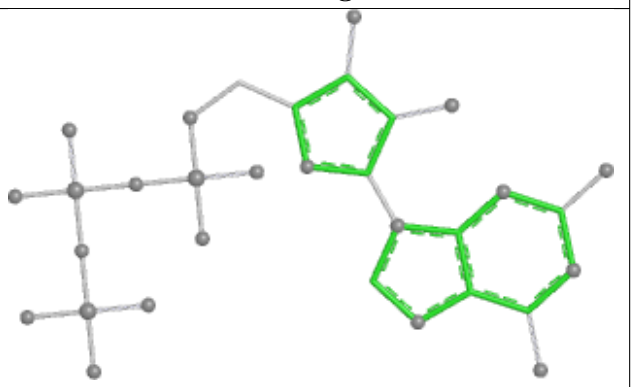
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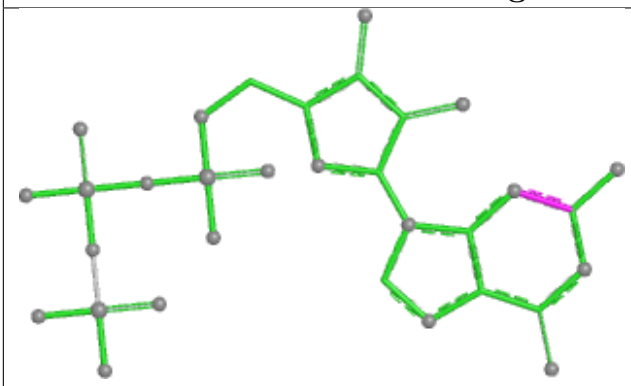


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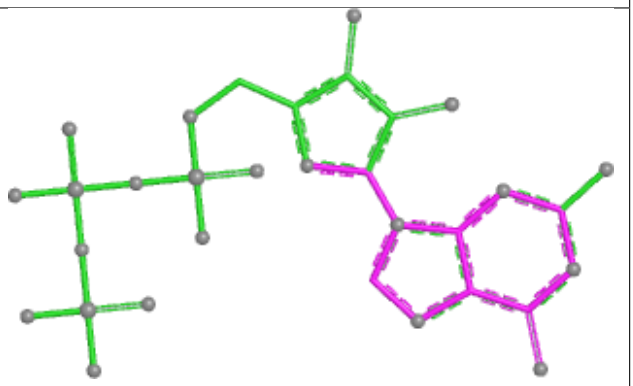


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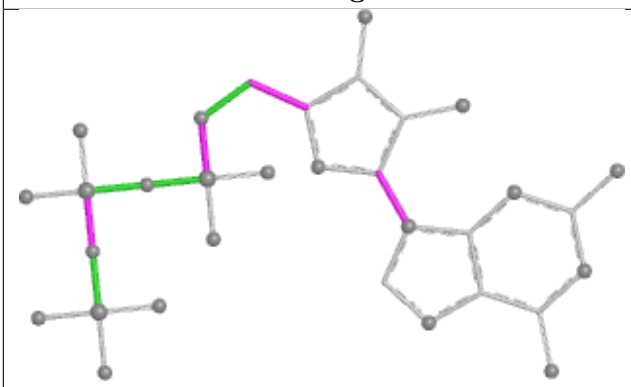
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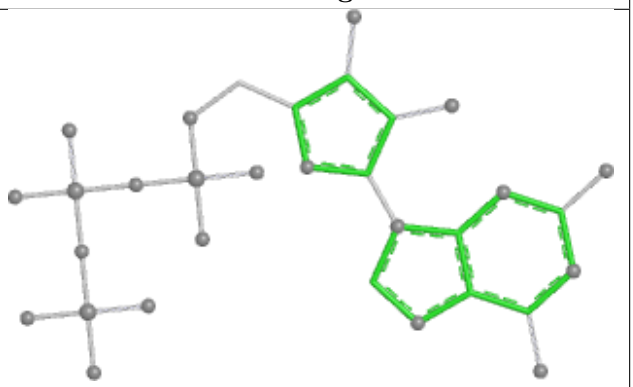
Bond lengths



Bond angles

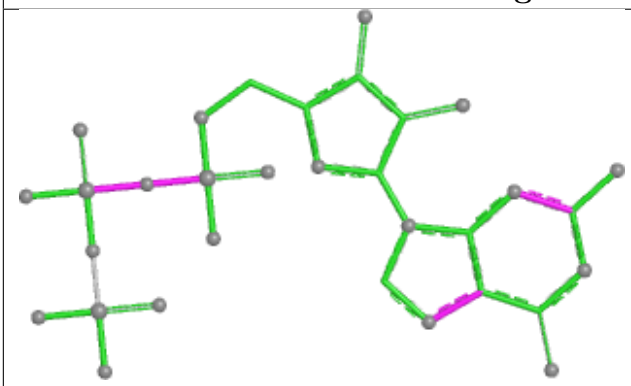


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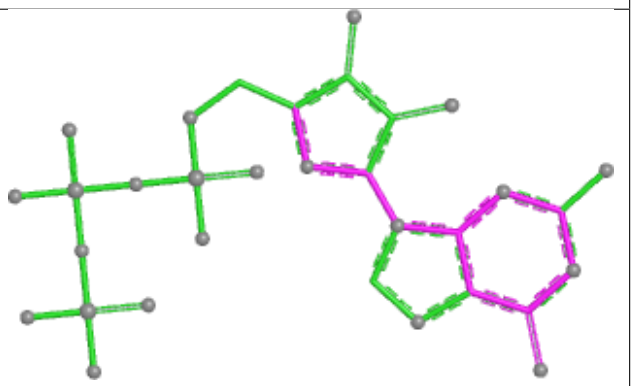


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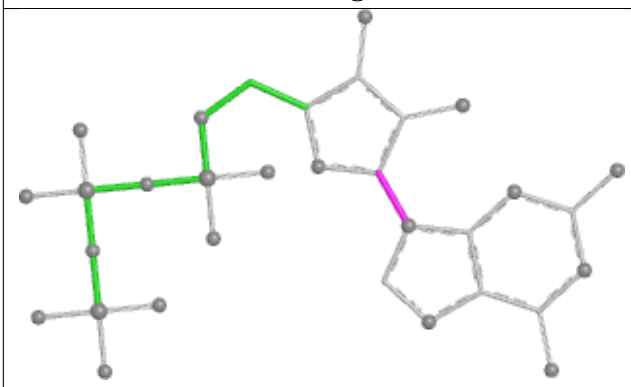
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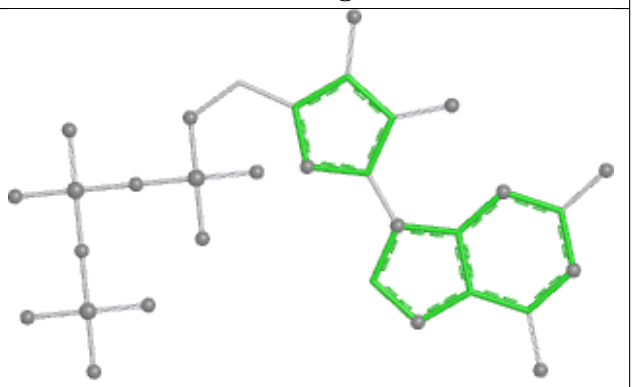
Bond lengths



Bond angles

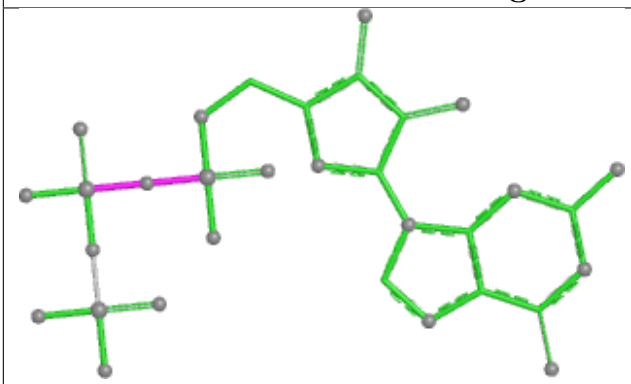


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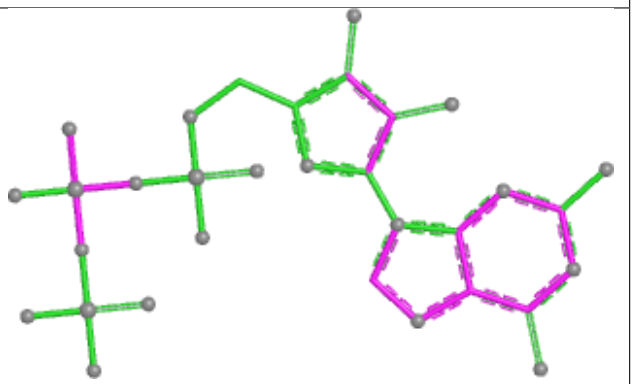


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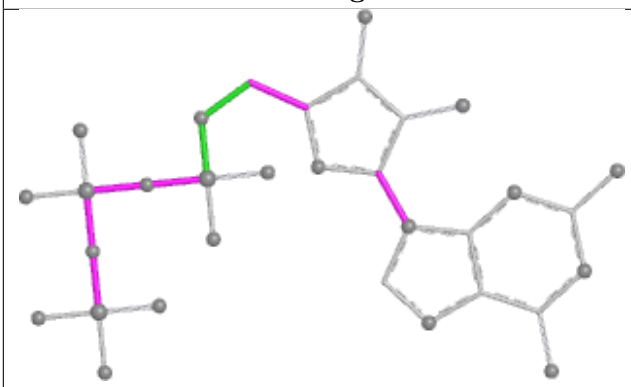
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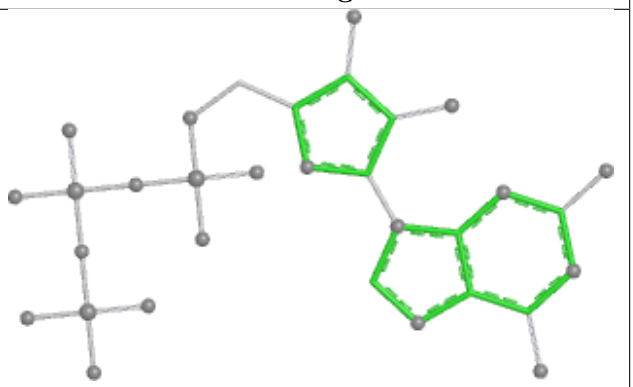
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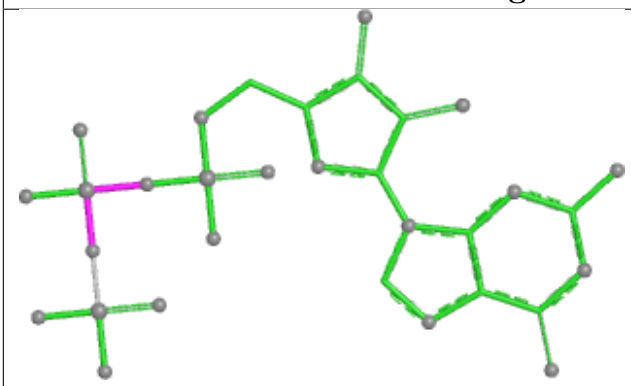


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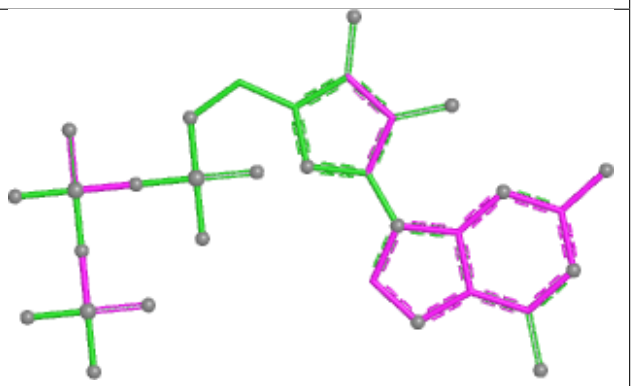


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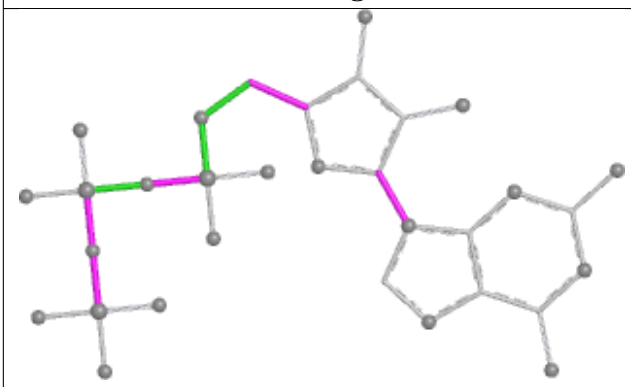
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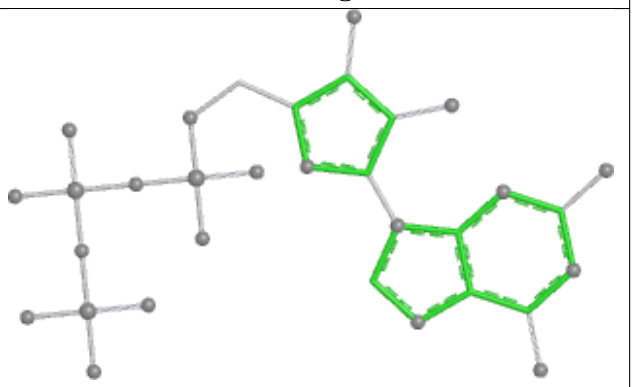
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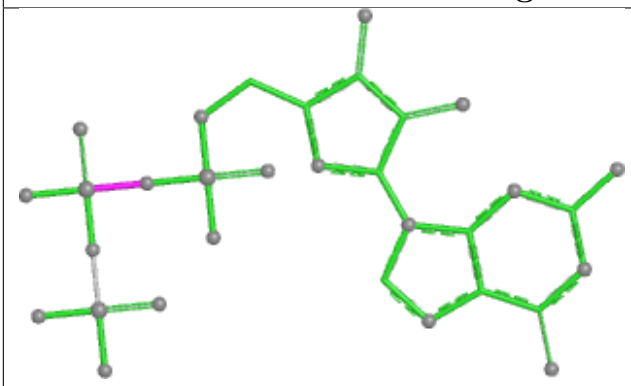


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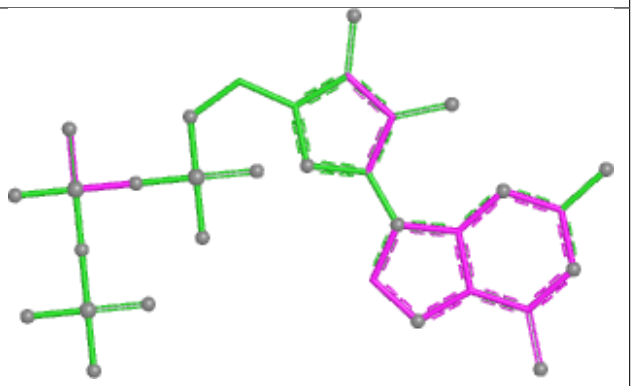


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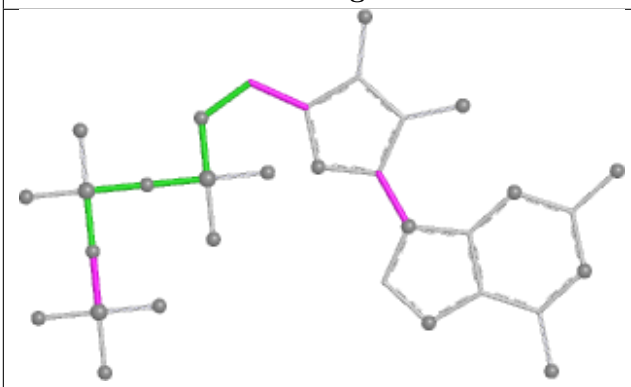
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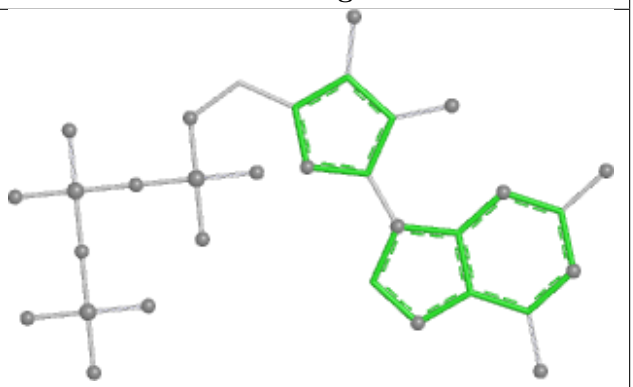
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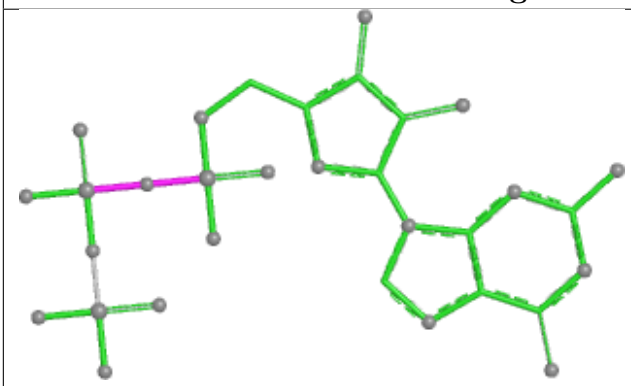


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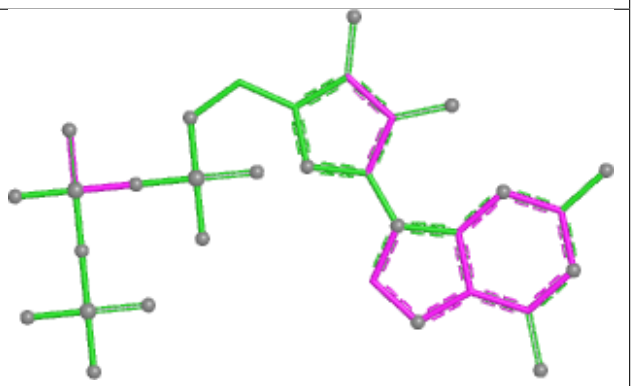


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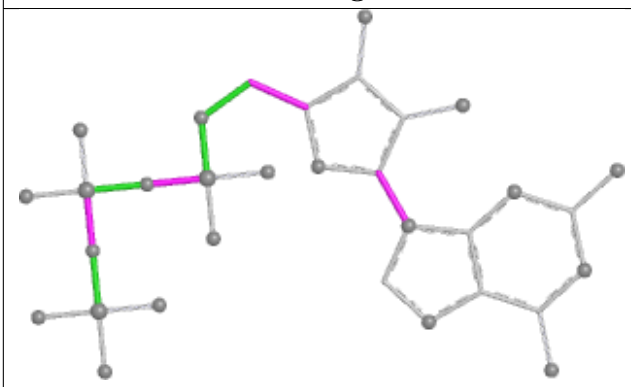
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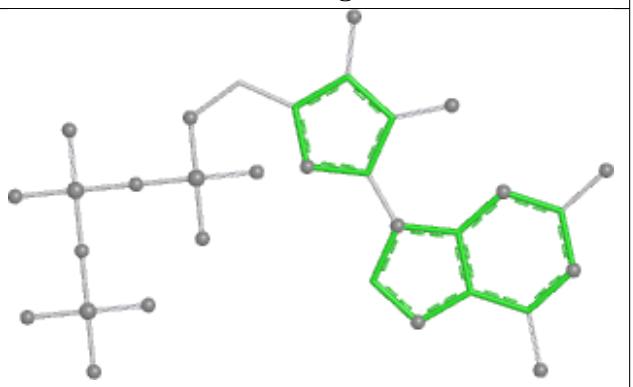
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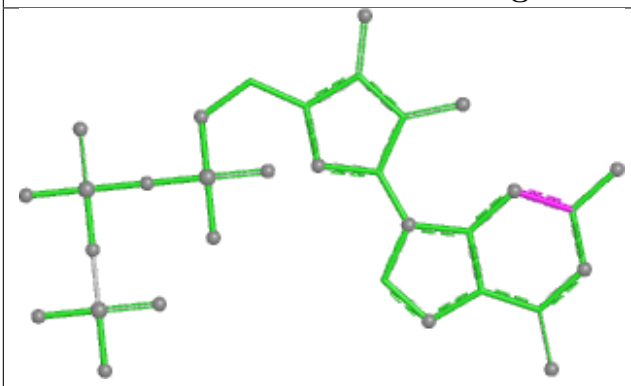


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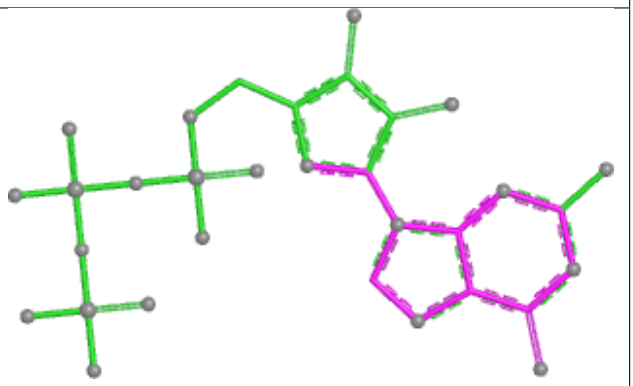


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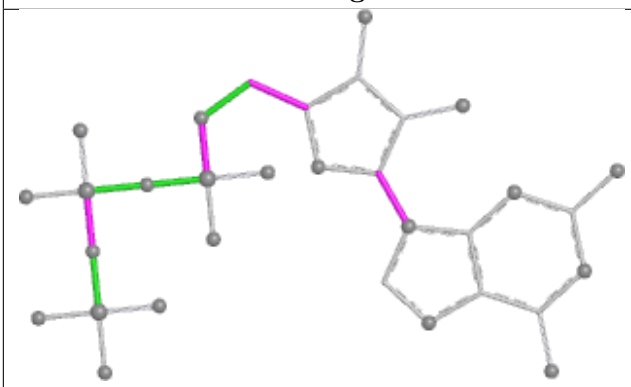
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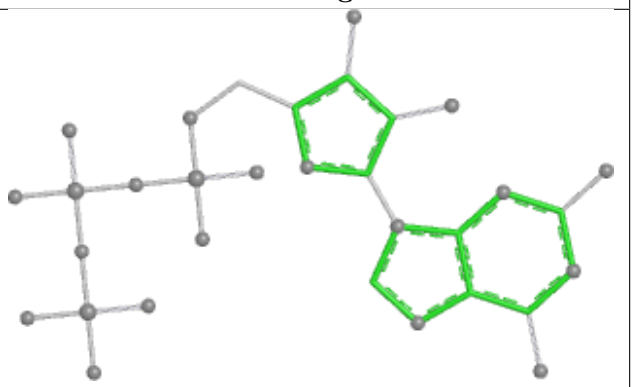
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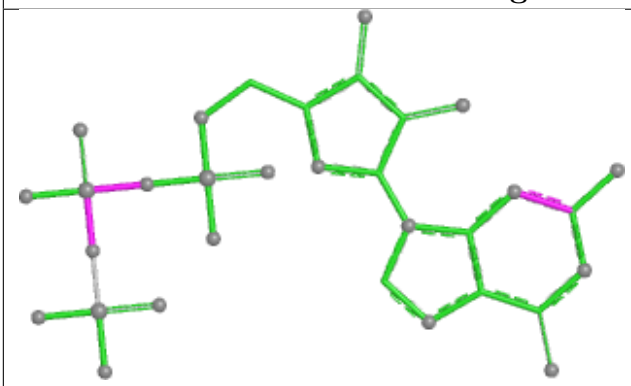


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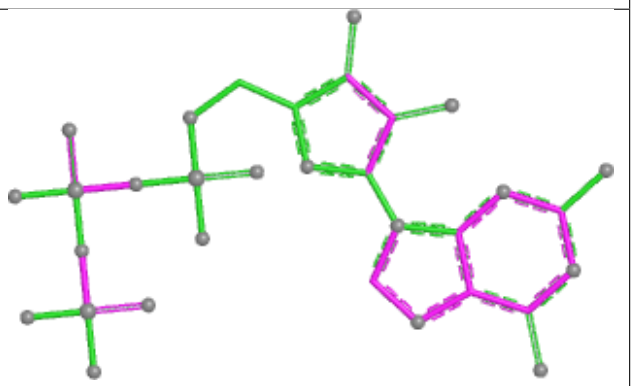


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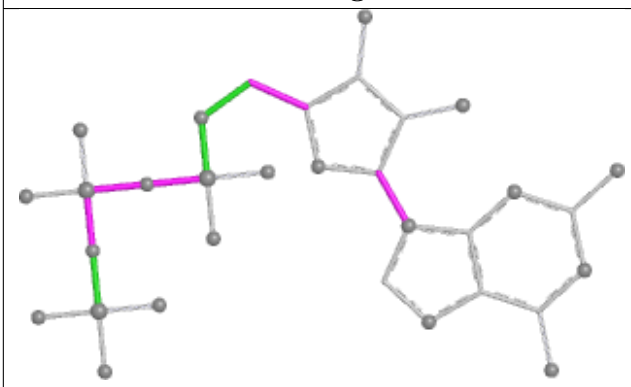
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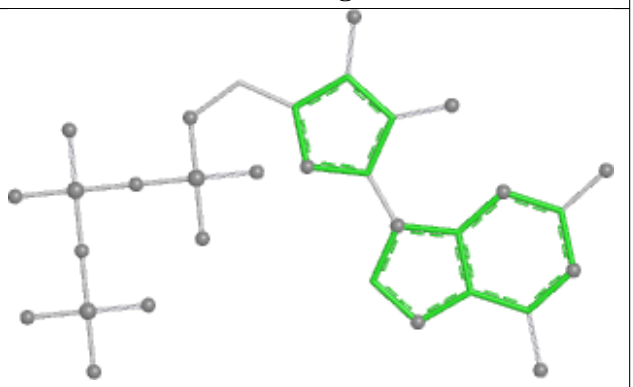
Bond lengths



Bond angles

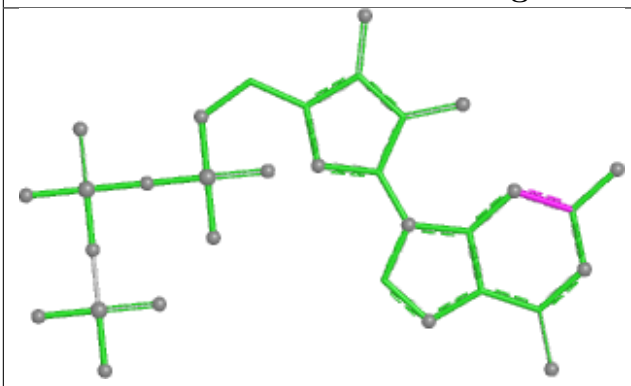


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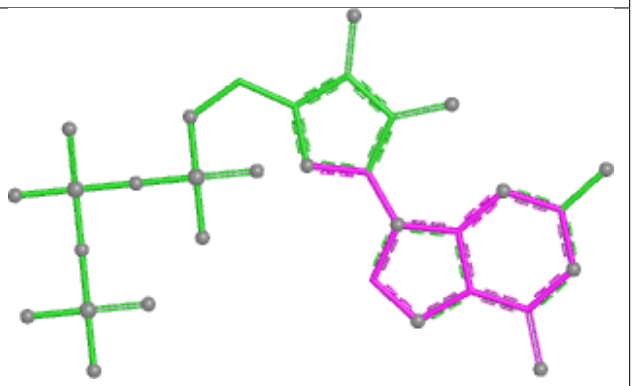


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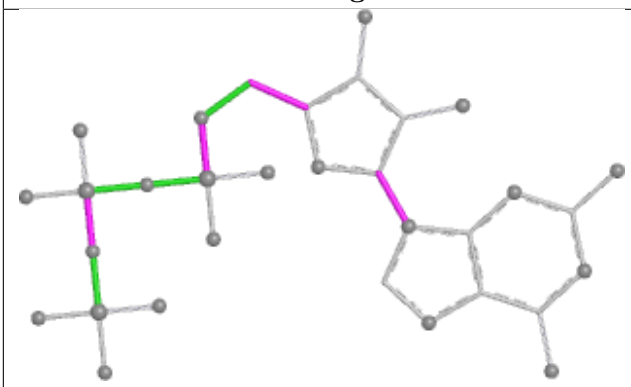
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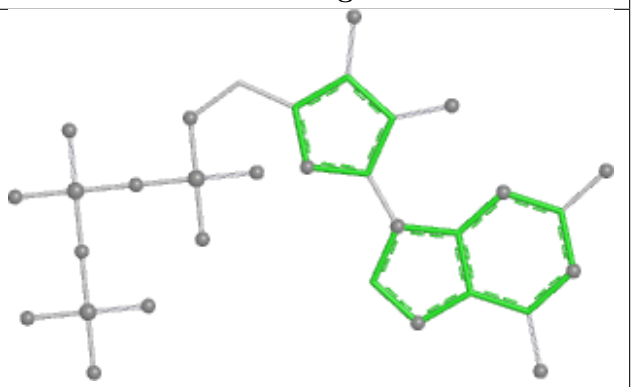
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Bond angles

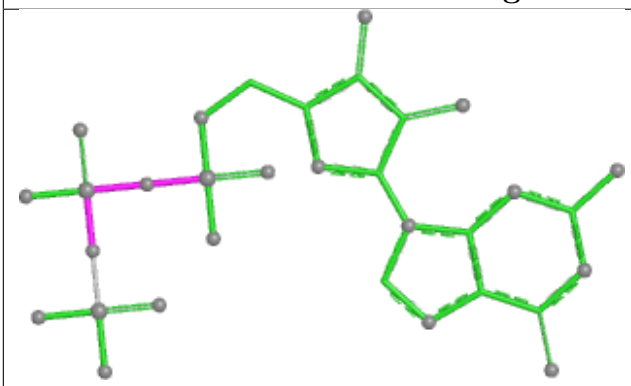


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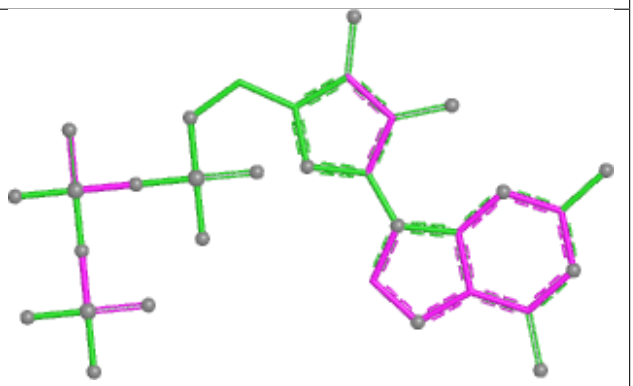


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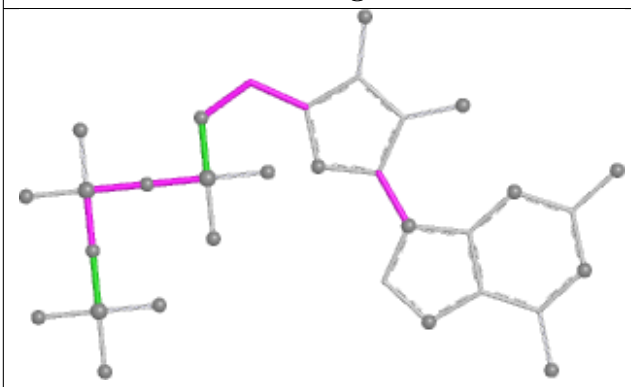
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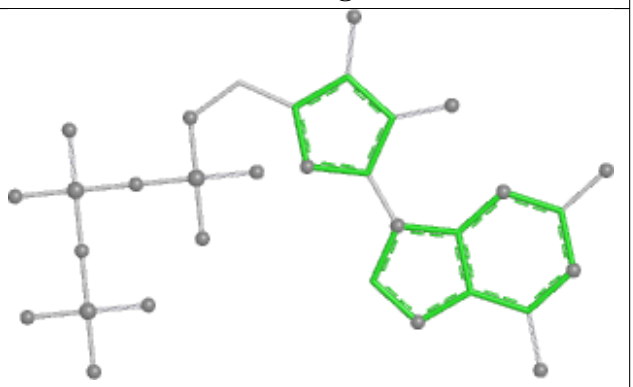
Bond lengths



Bond angles

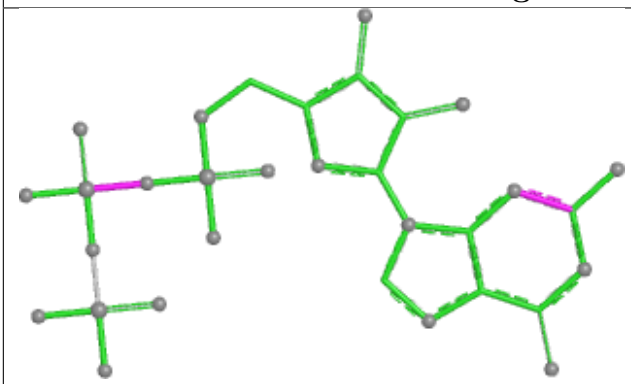


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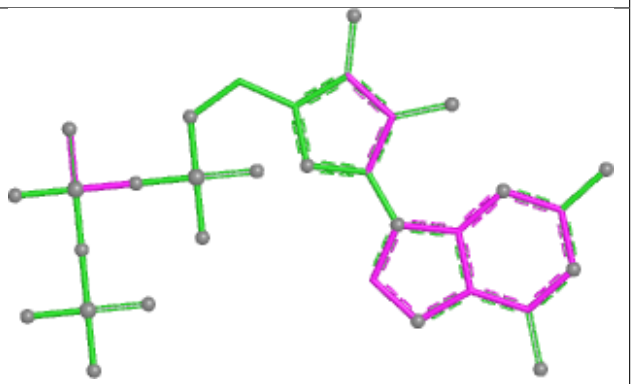


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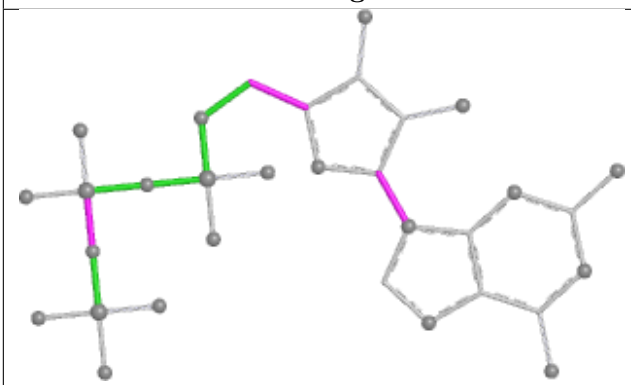
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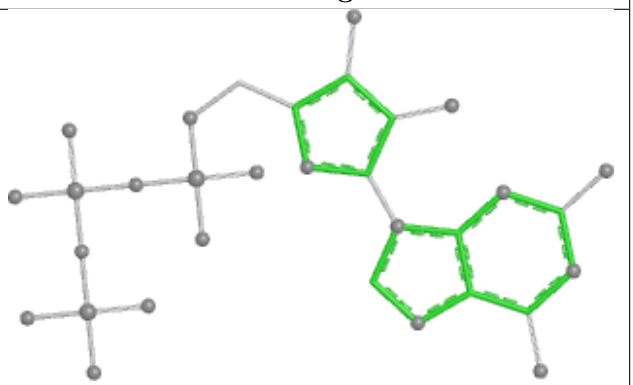
Bond lengths



Bond angles

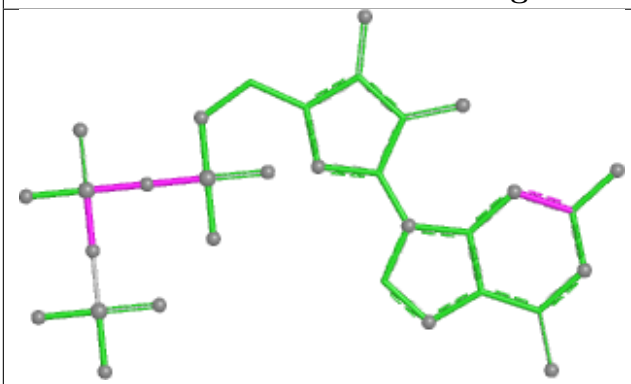


Torsions

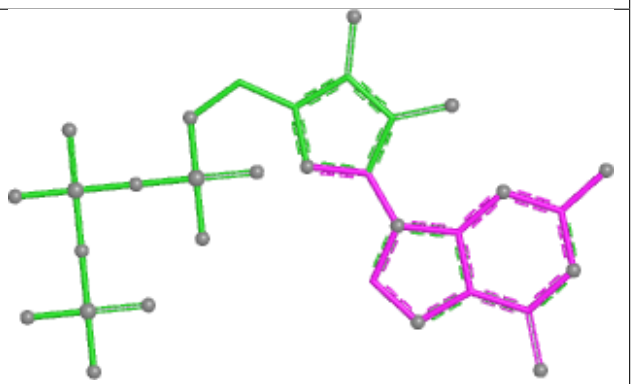


Rings

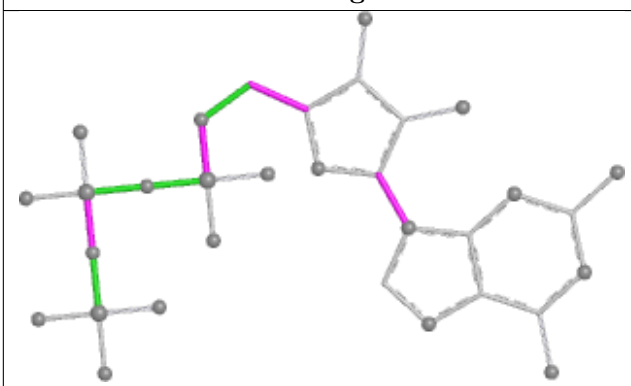
Ligand GTP DF 501



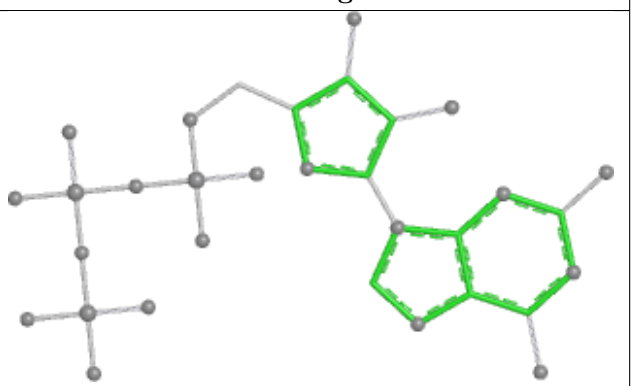
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Bond angles

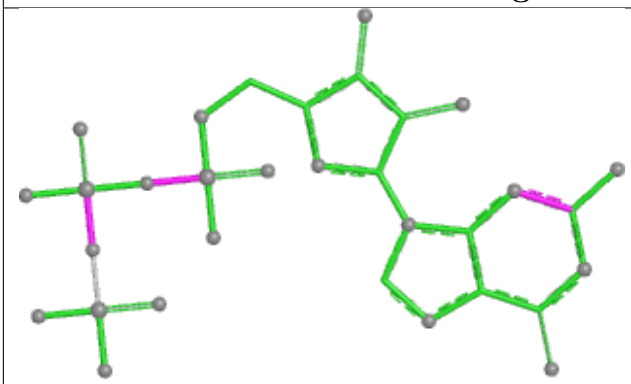


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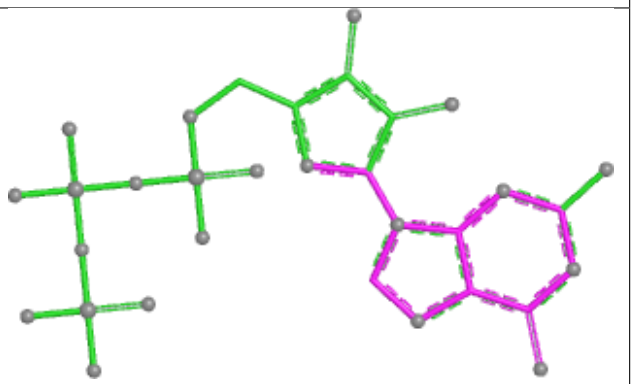


Rings

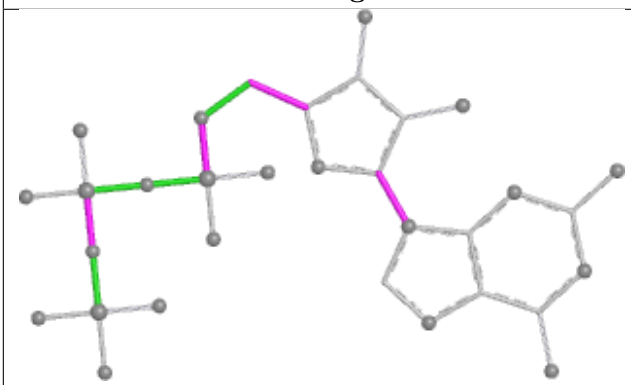
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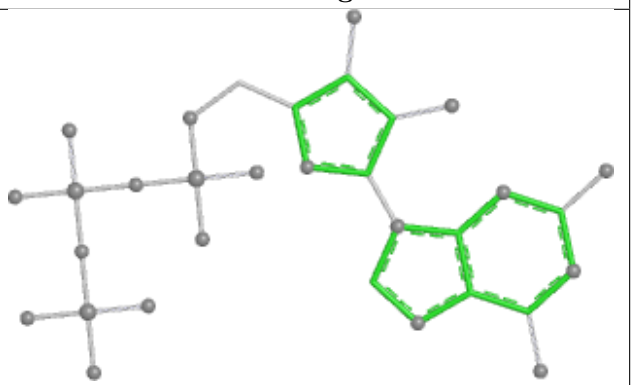
Bond lengths



Bond angles

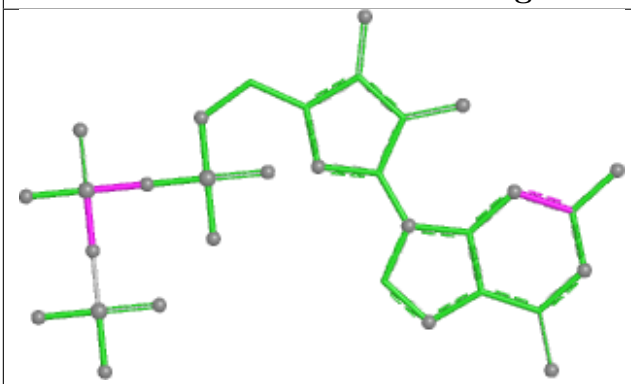


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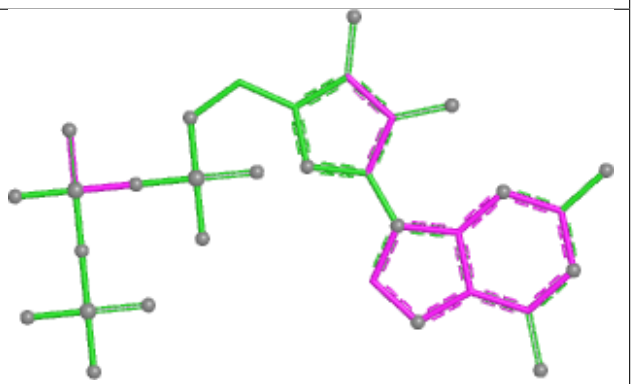


Rings

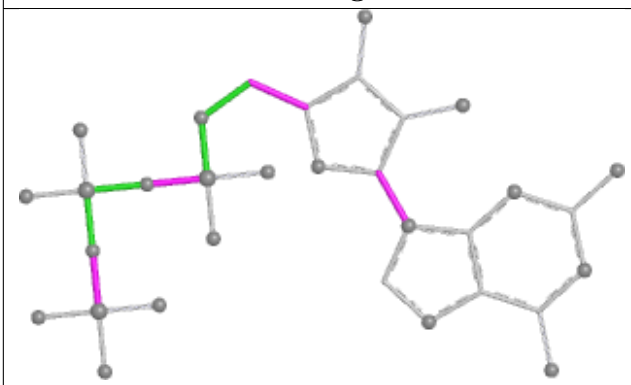
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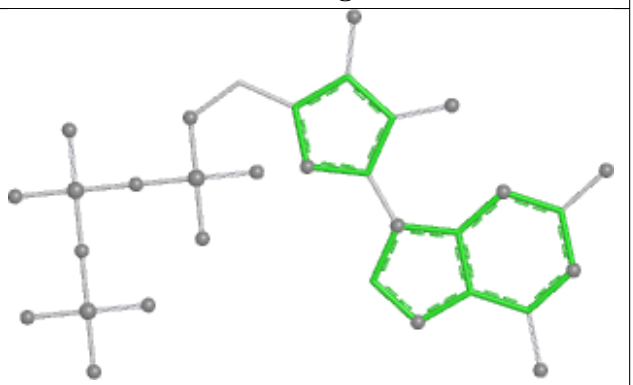
Bond lengths



Bond angles

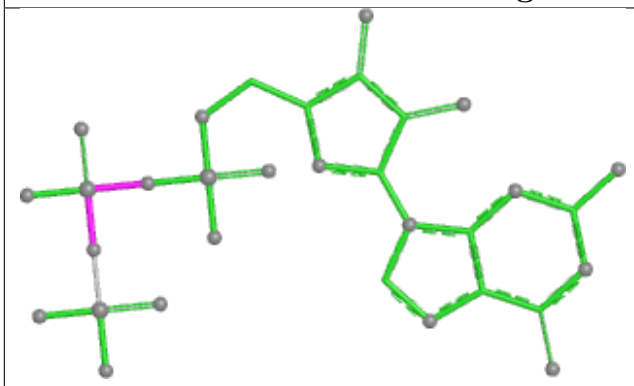


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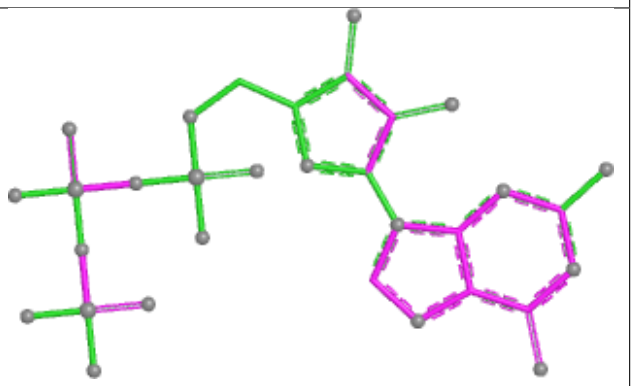


Rings

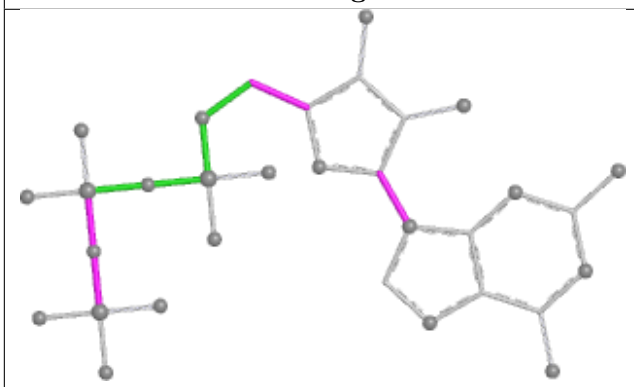
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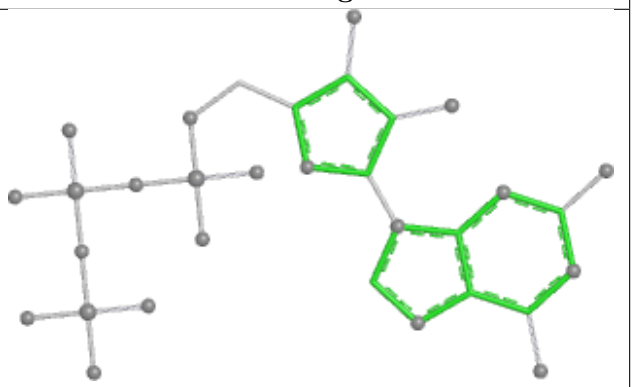
Bond lengths



Bond angles

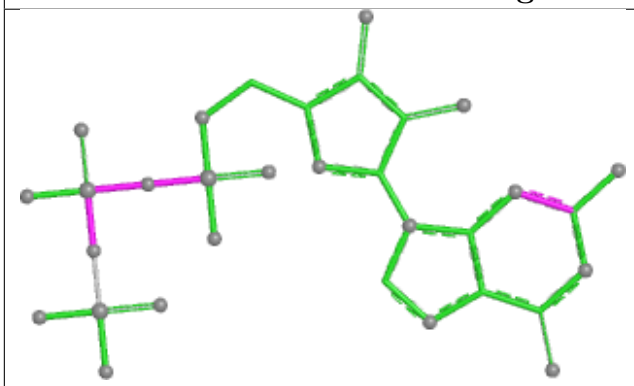


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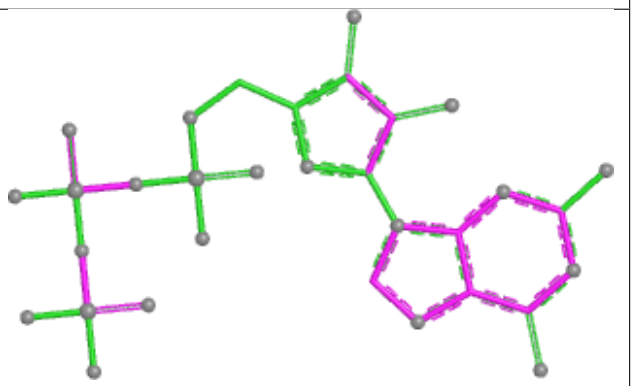


Rings

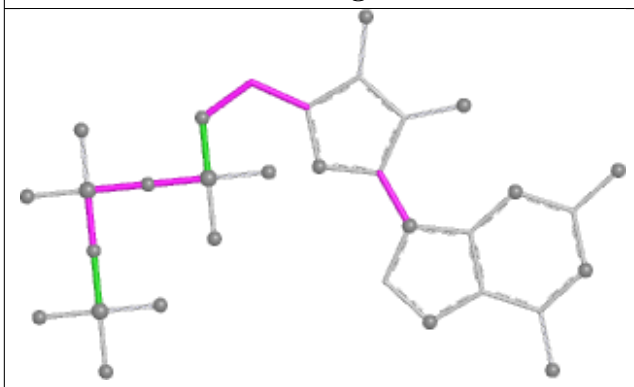
Ligand GTP OI 501



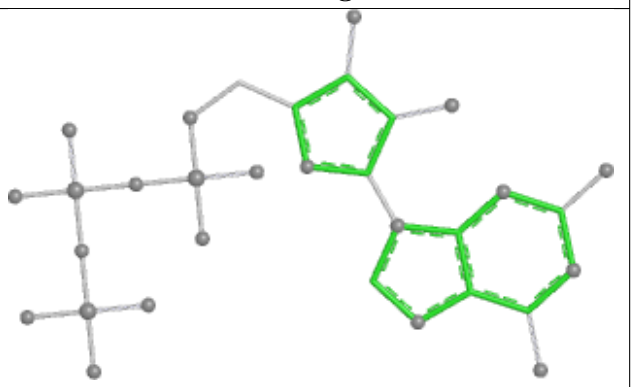
Bond lengths



Bond angles

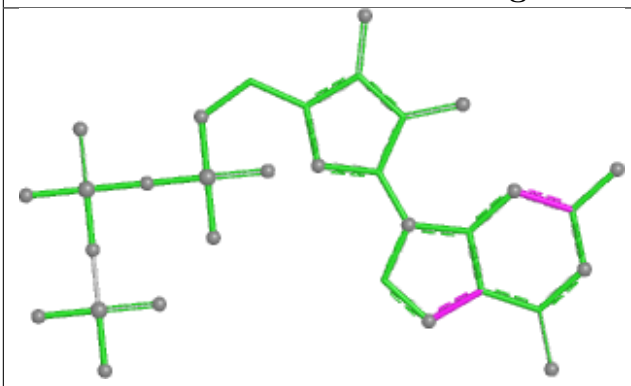


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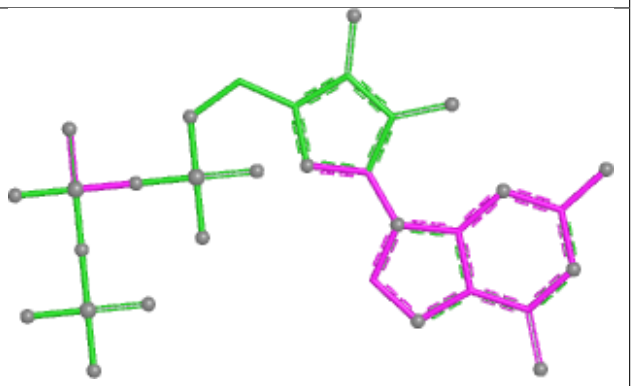


Rings

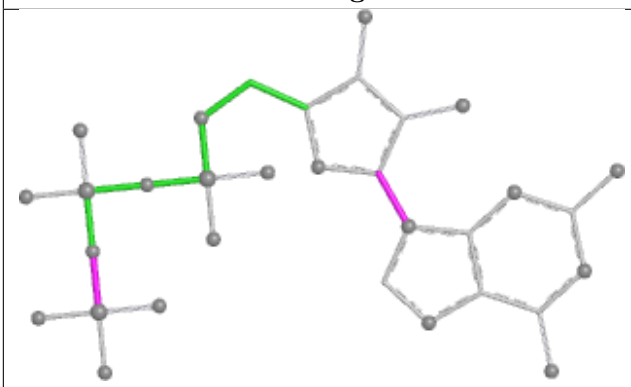
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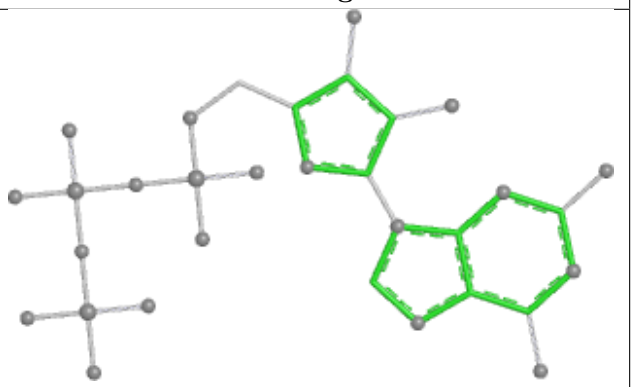
Bond lengths



Bond angles

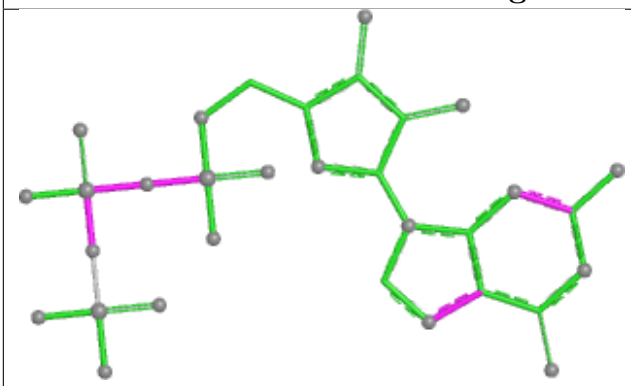


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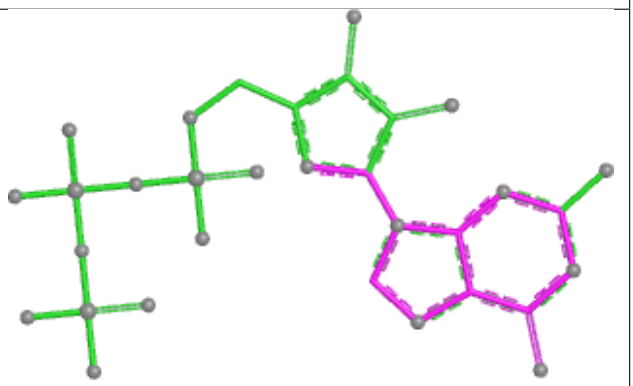


Rings

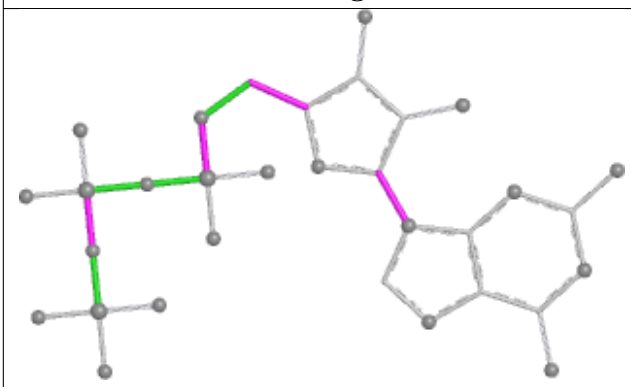
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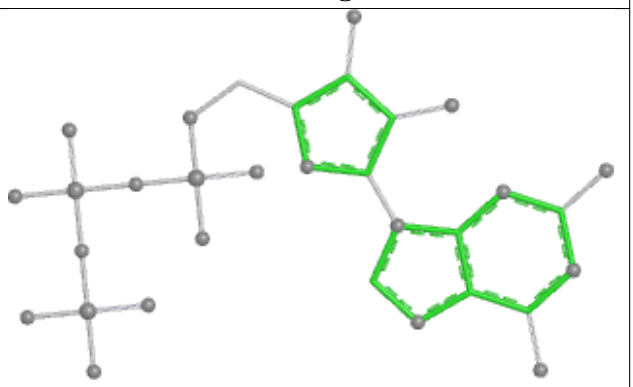
Bond lengths



Bond angles

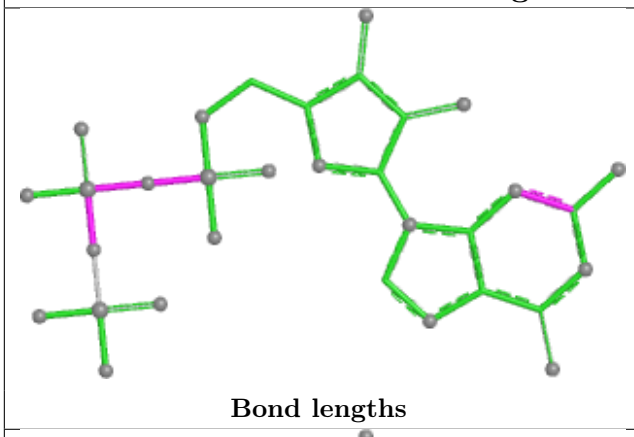


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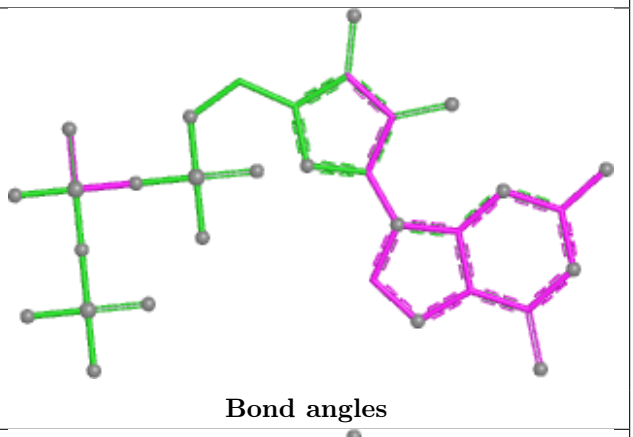


Rings

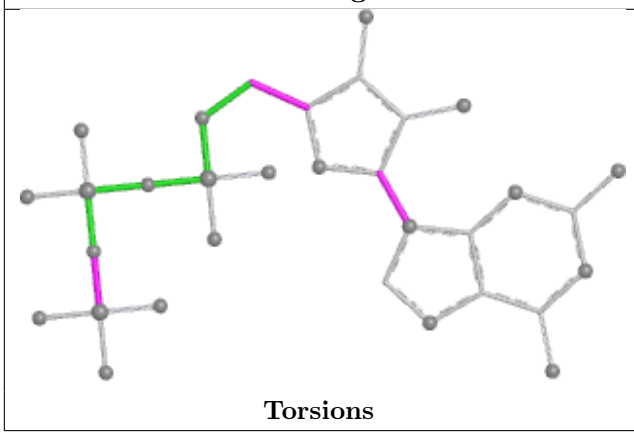
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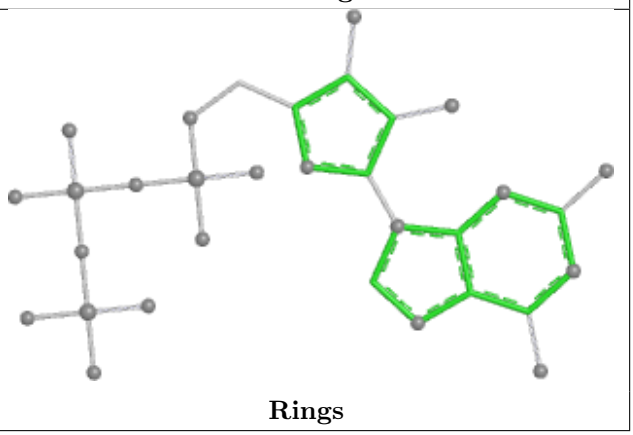
Bond lengths



Bond angles

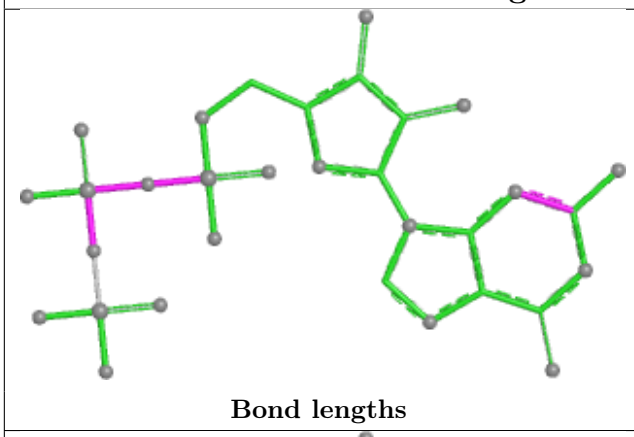


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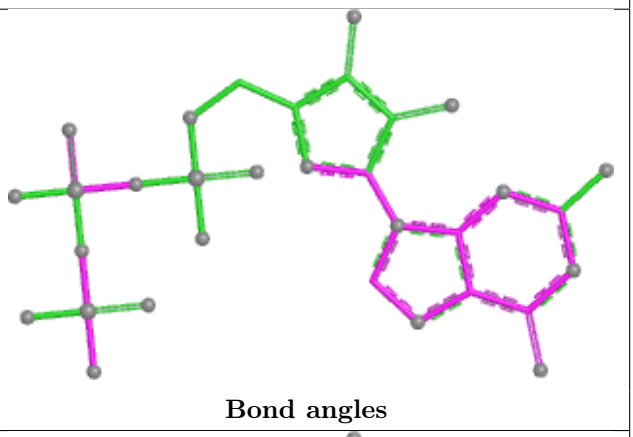


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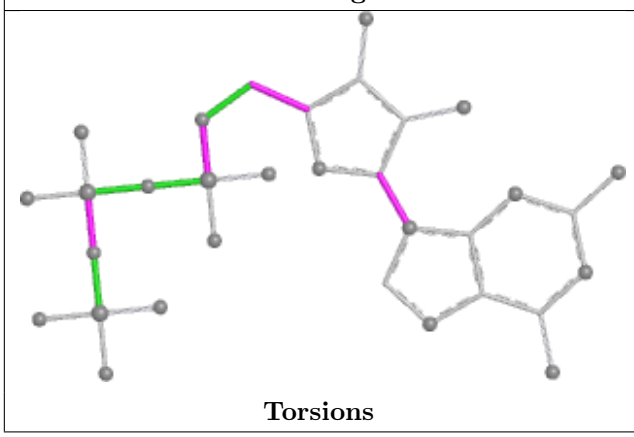
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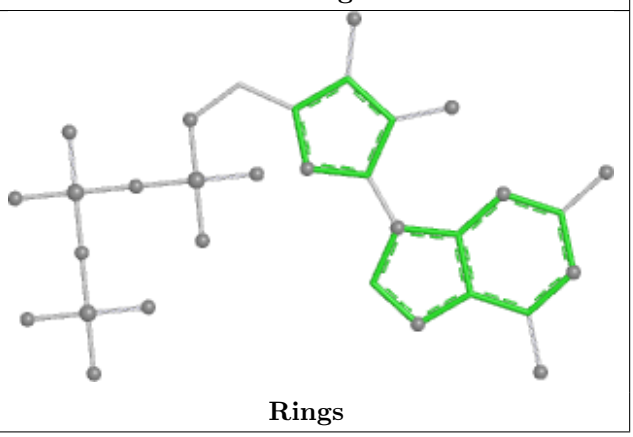
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Bond angles

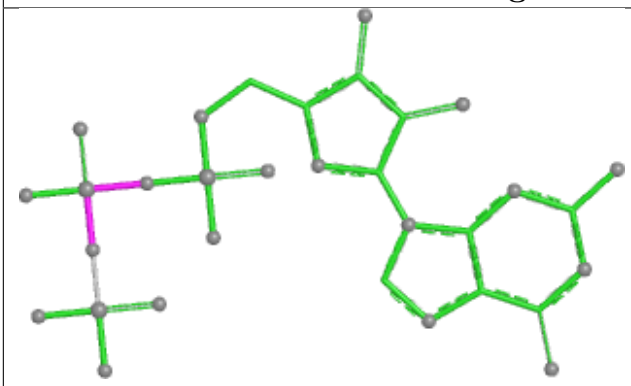


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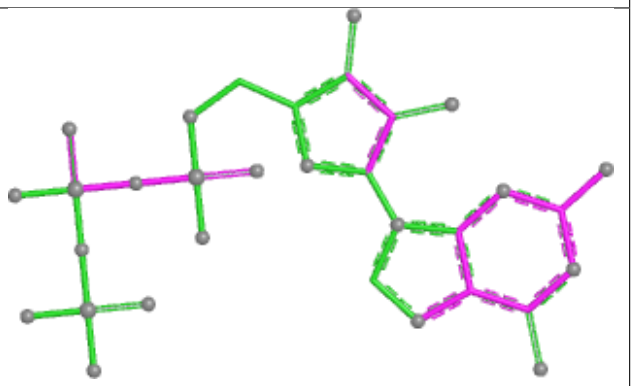


Rings

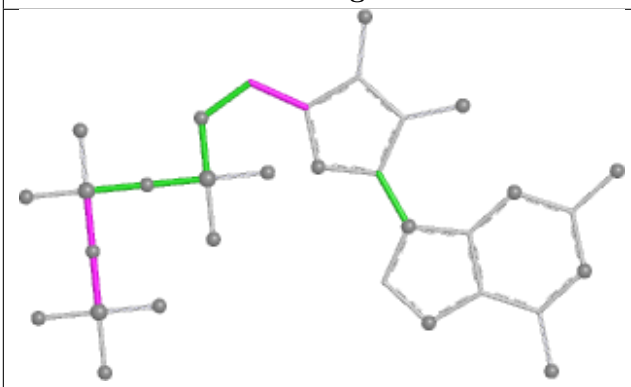
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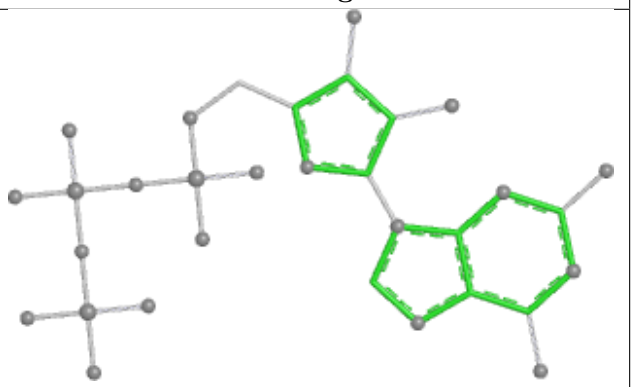
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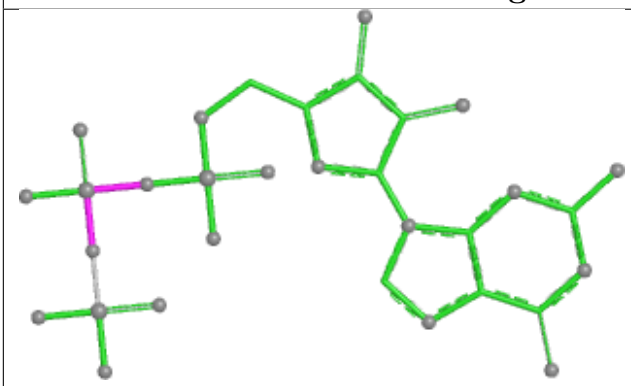


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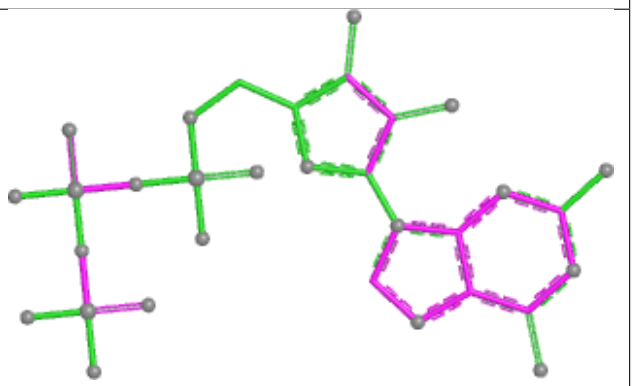


Rings

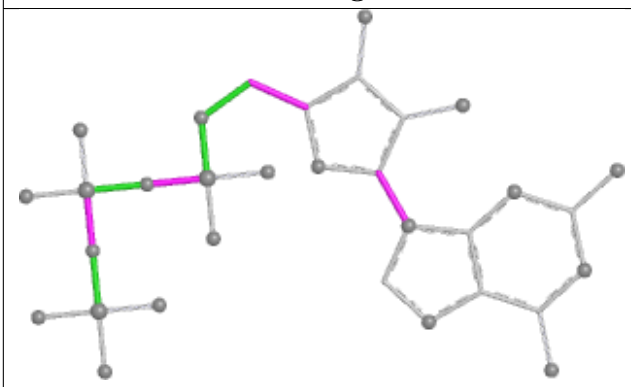
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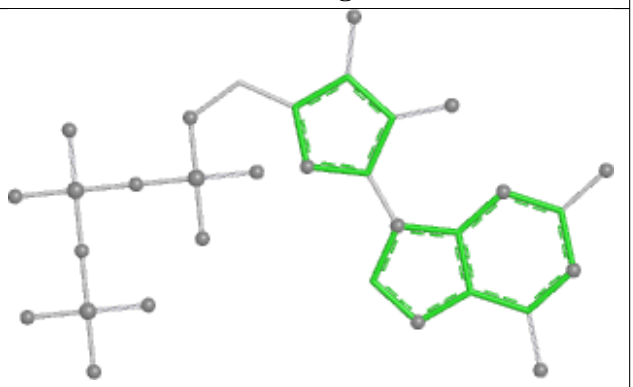
Bond lengths



Bond angles

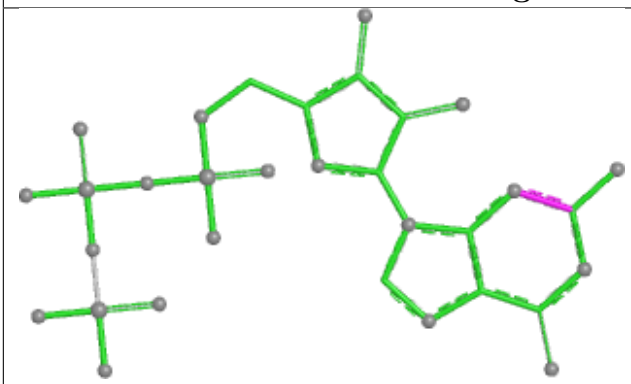


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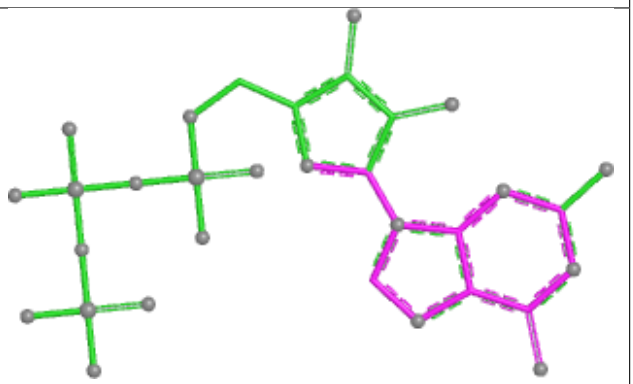


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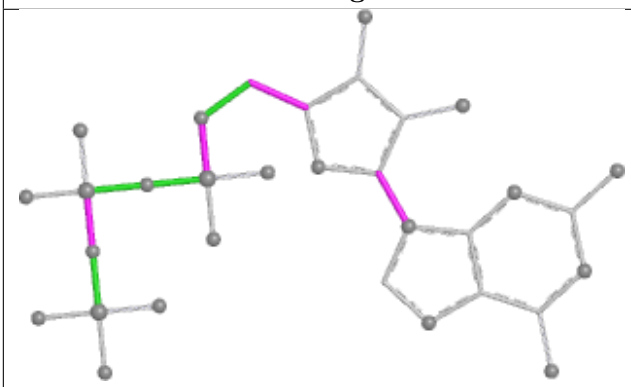
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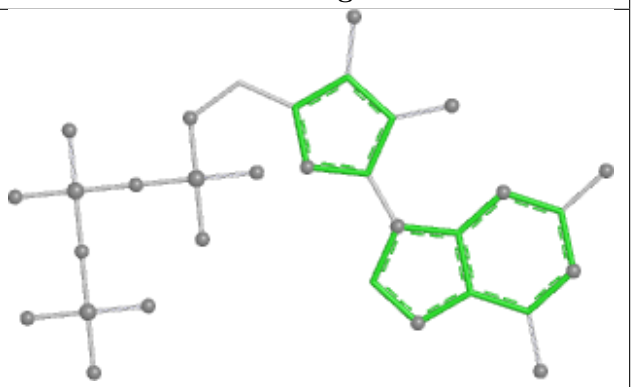
Bond lengths



Bond angles

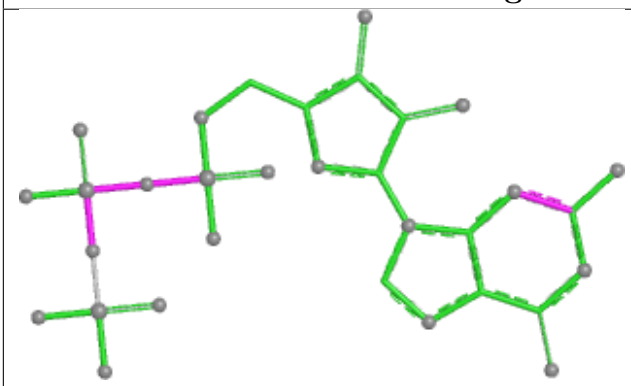


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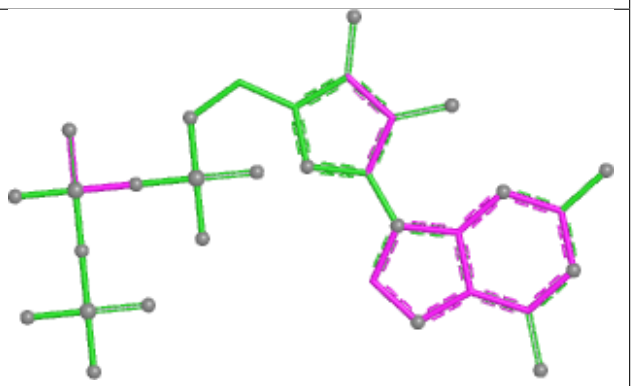


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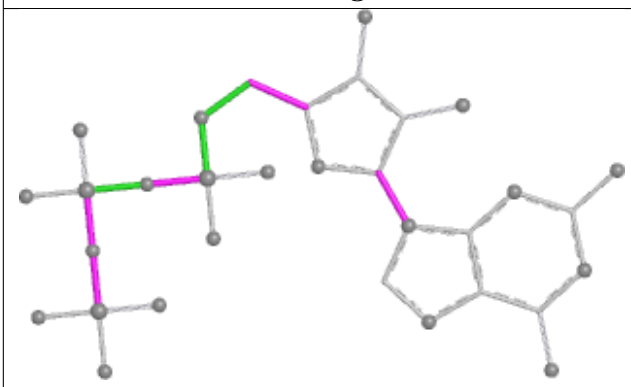
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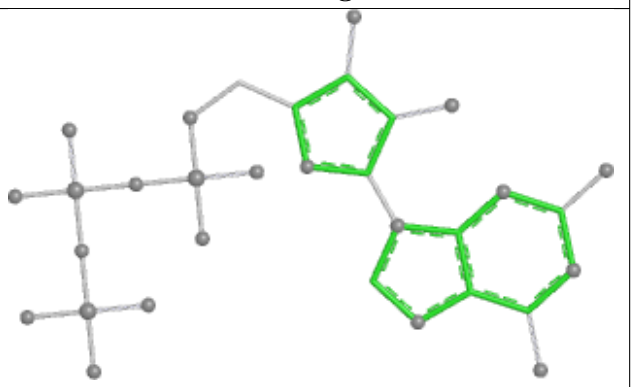
Bond lengths



Bond angles

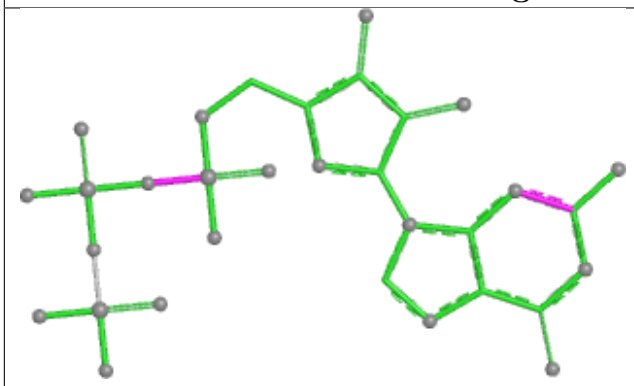


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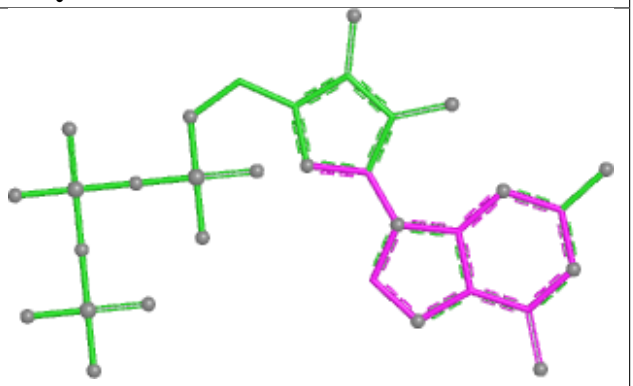


Rings

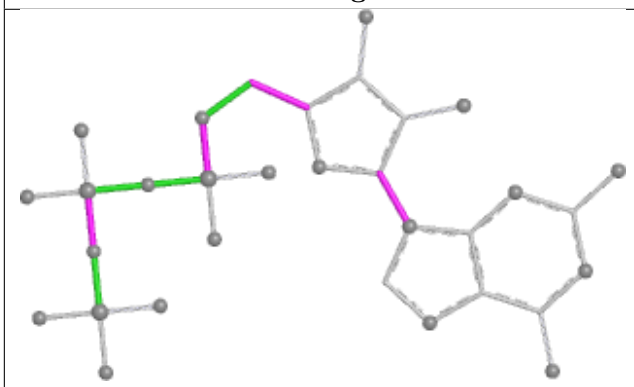
Ligand GTP QL 501



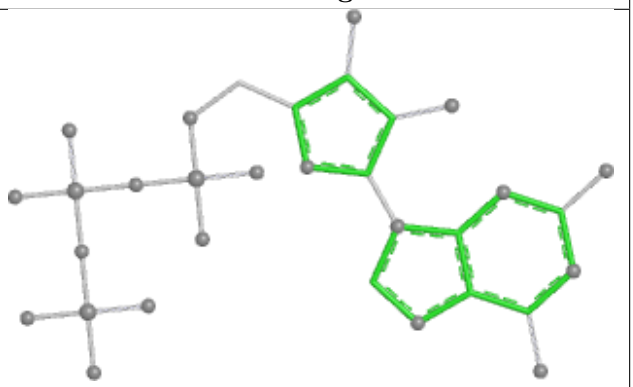
Bond lengths



Bond angles

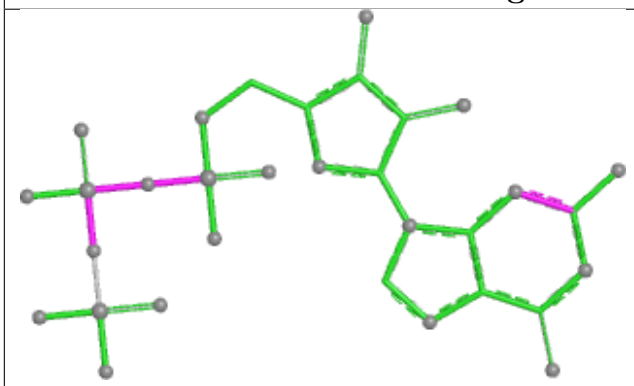


Torsions

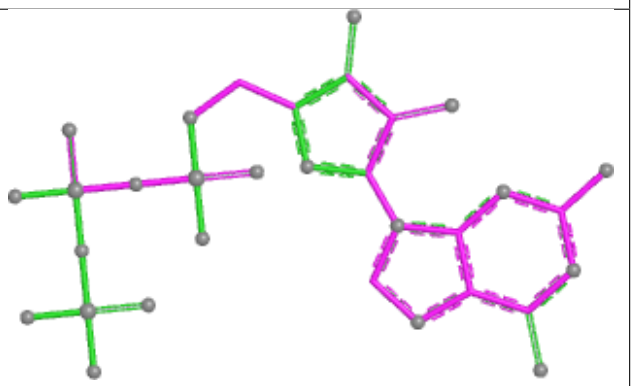


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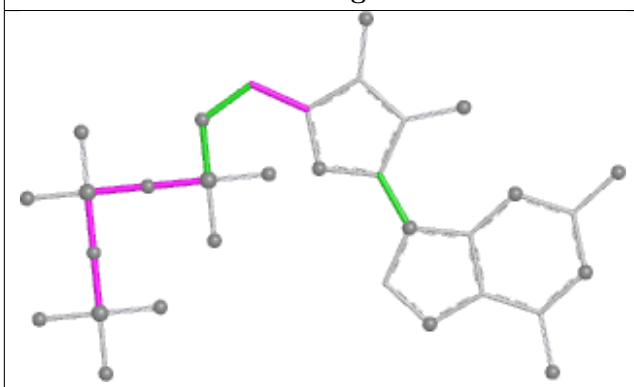
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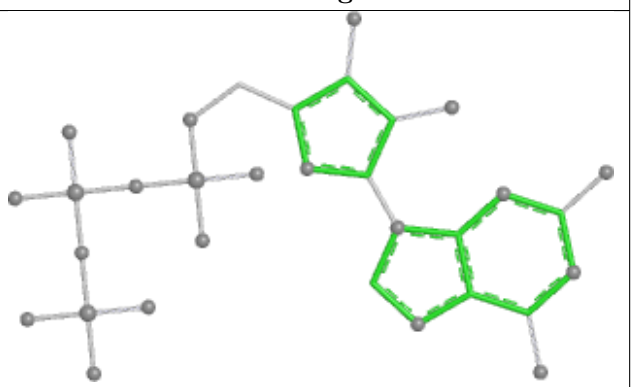
Bond lengths



Bond angles

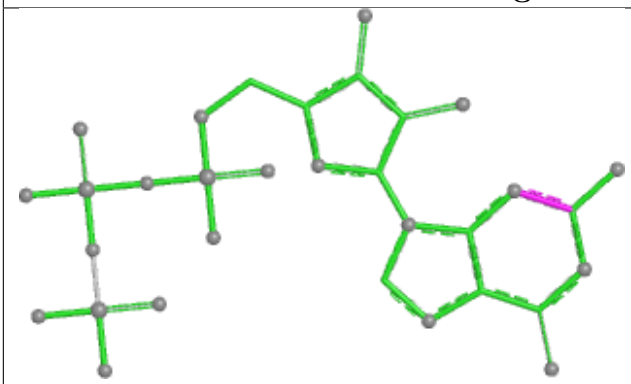


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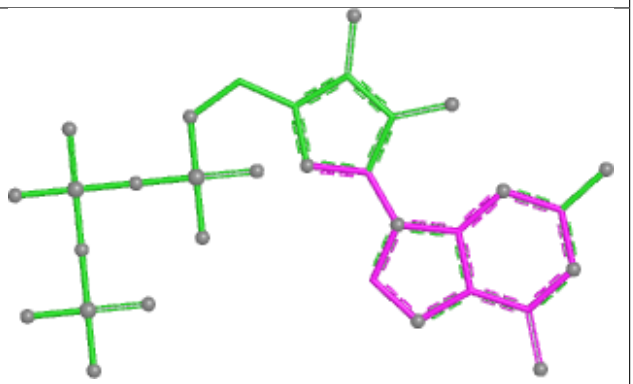


Rings

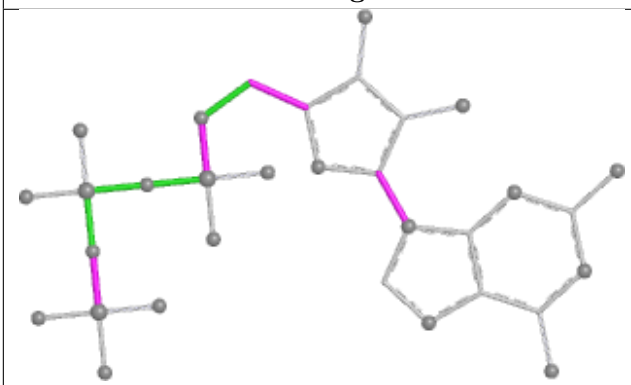
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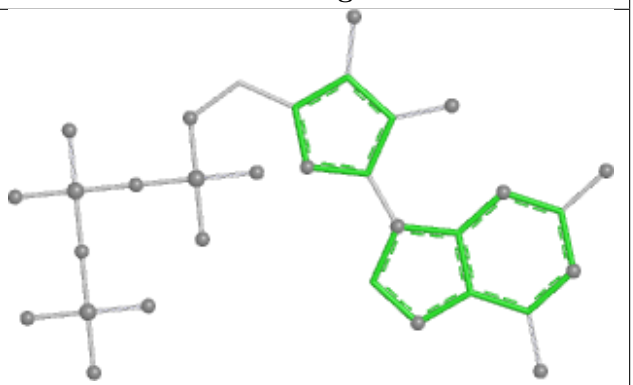
Bond lengths



Bond angles

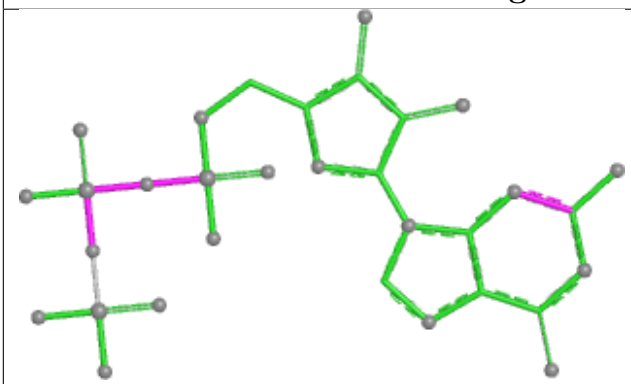


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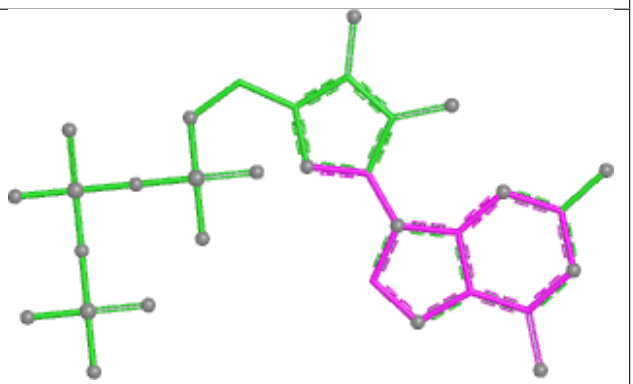


Rings

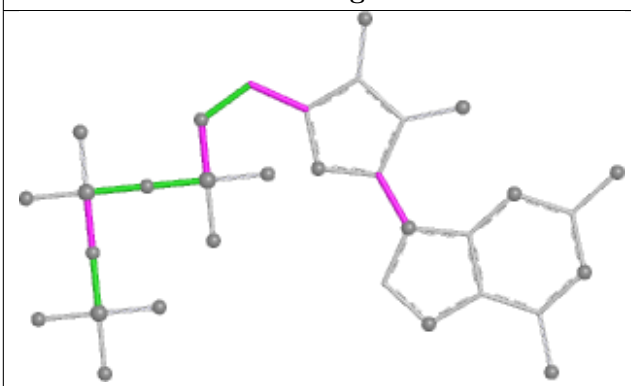
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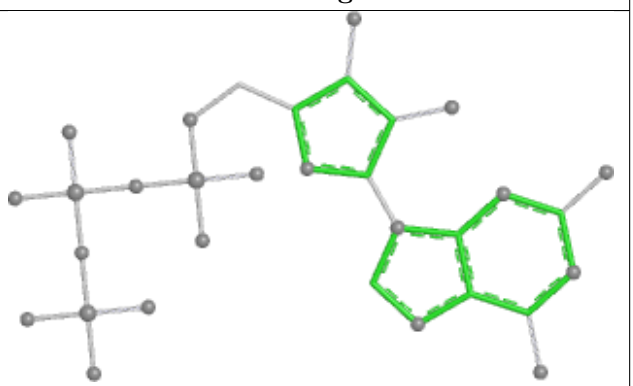
Bond lengths



Bond angles

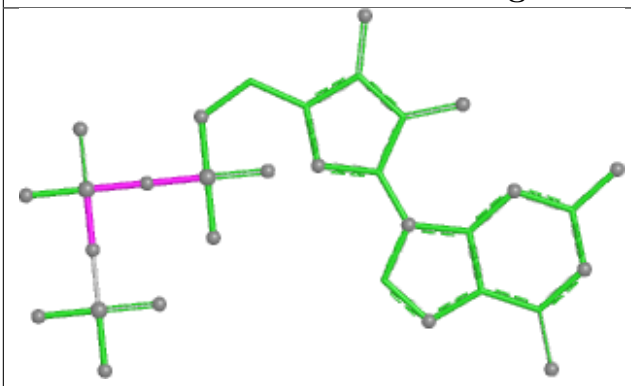


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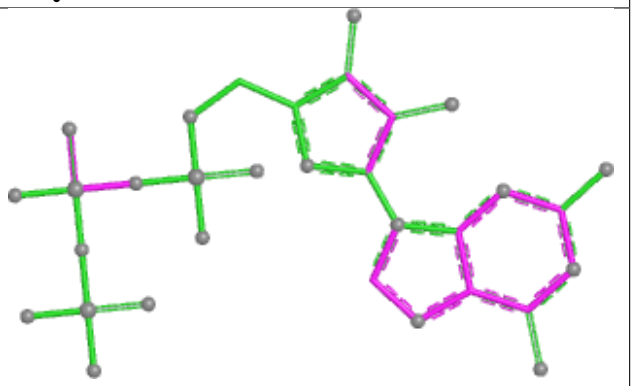


Rings

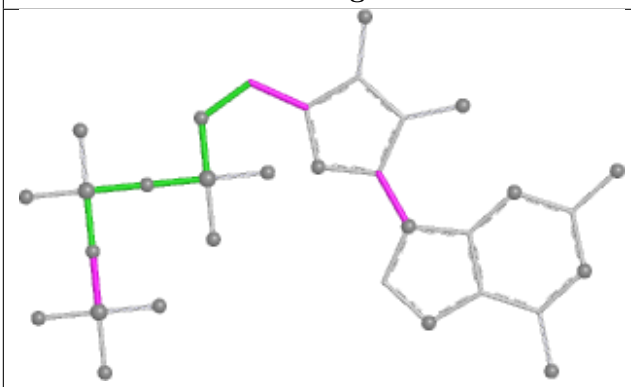
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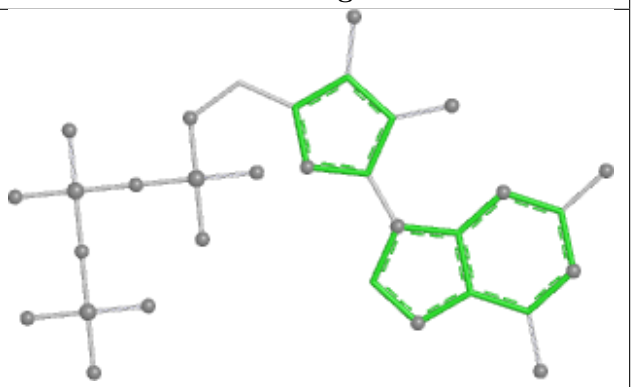
Bond lengths



Bond angles

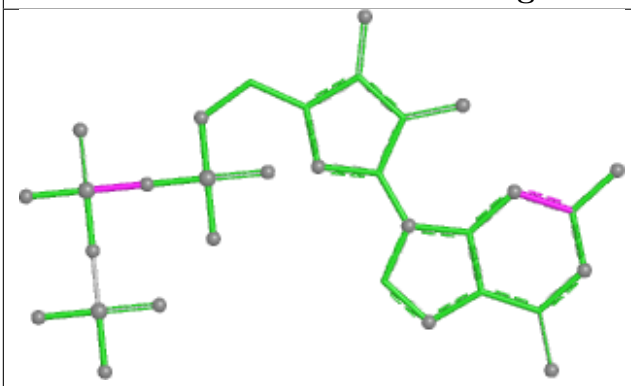


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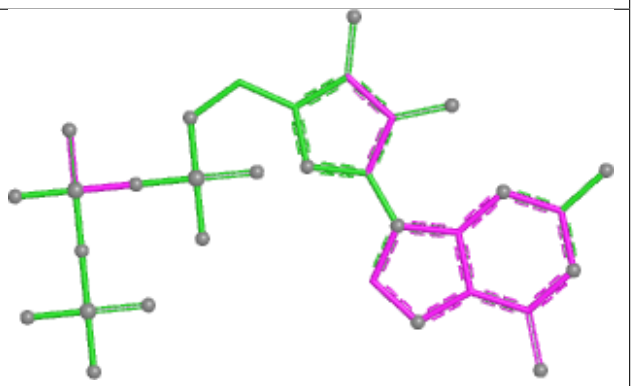


Rings

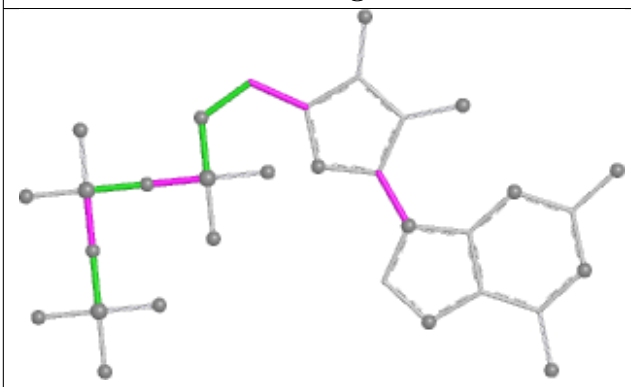
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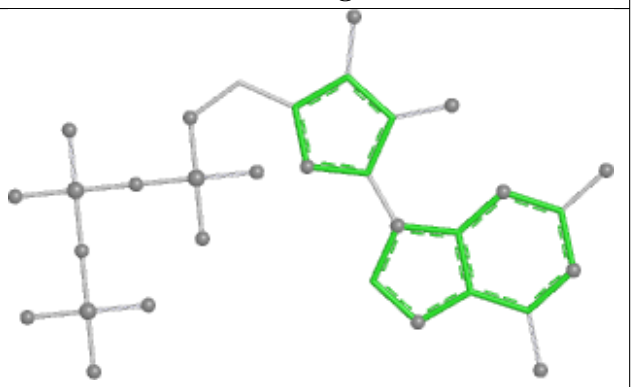
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Bond angles

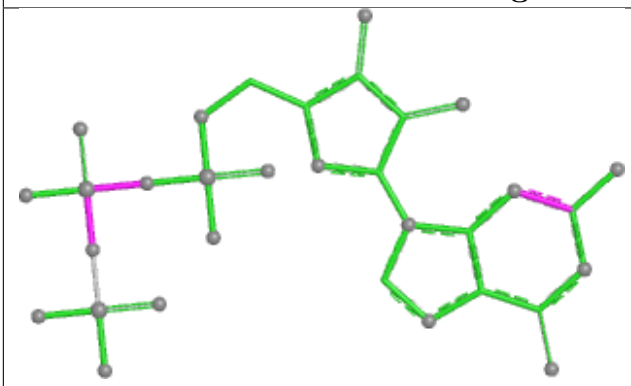


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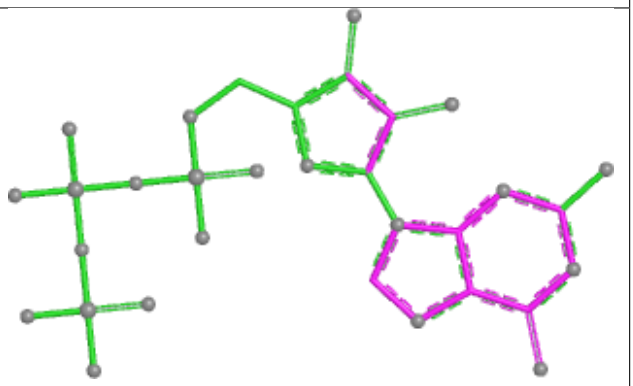


Rings

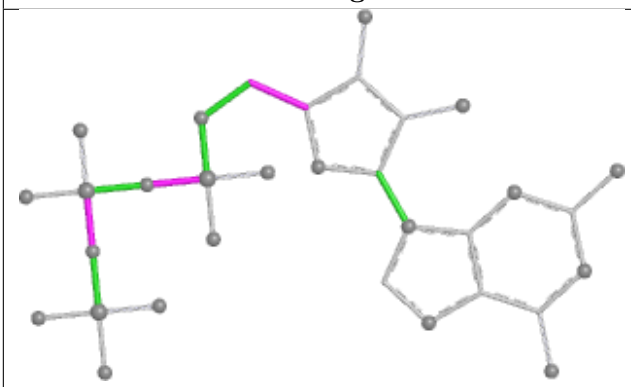
Ligand GTP LK 501



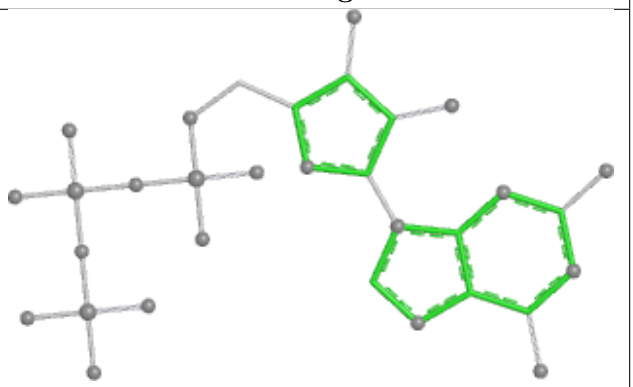
Bond lengths



Bond angles

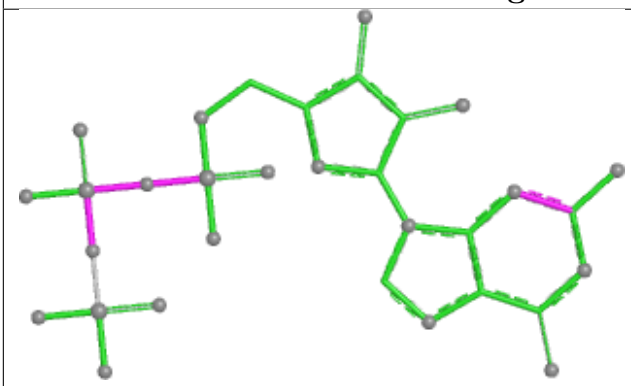


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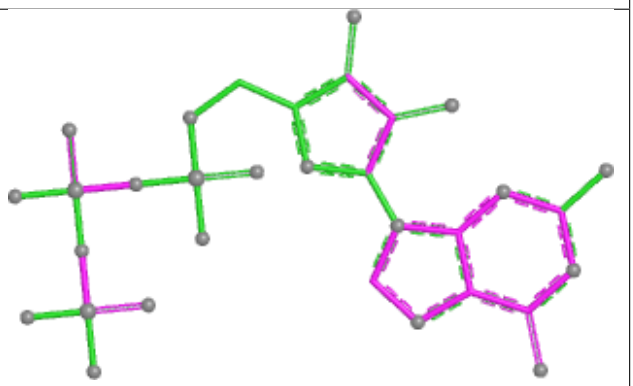


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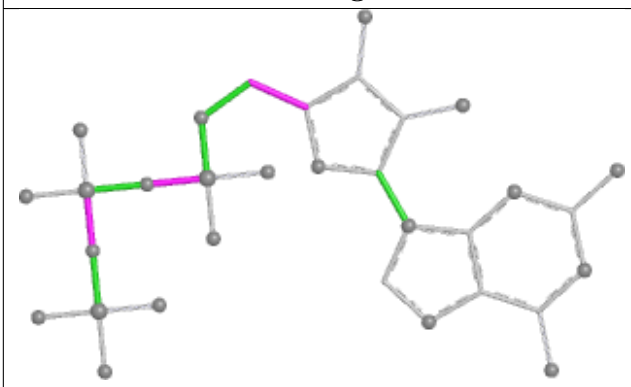
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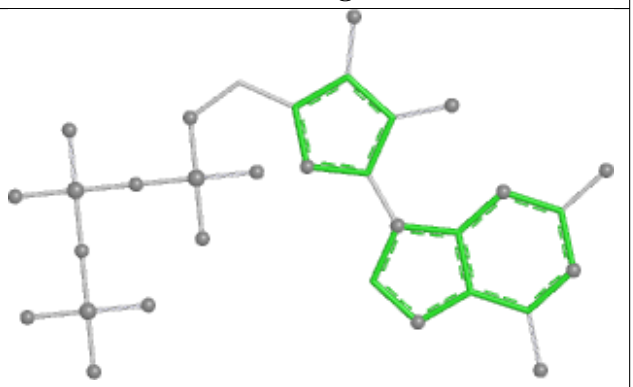
Bond lengths



Bond angles

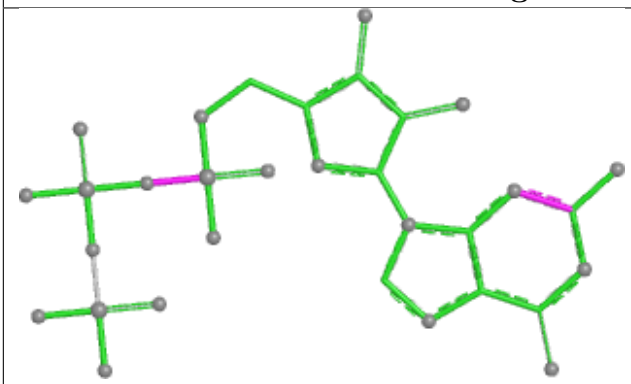


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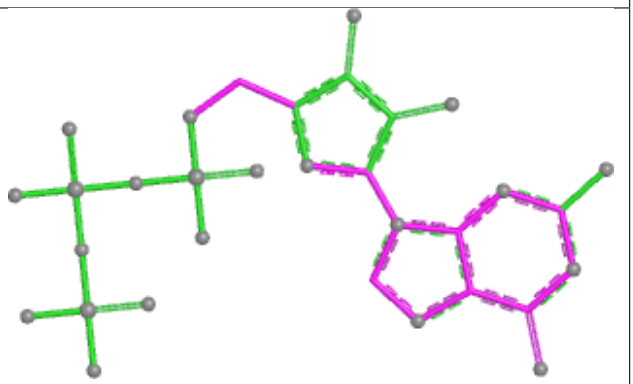


Rings

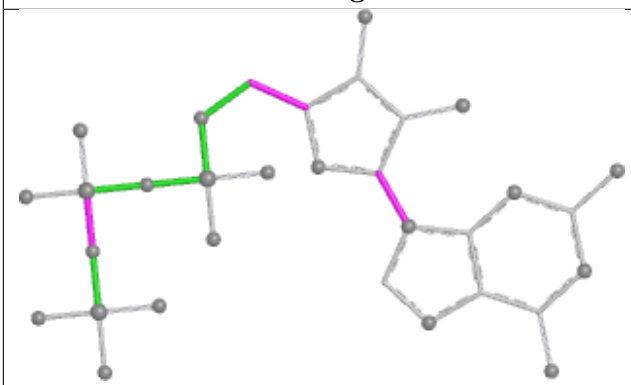
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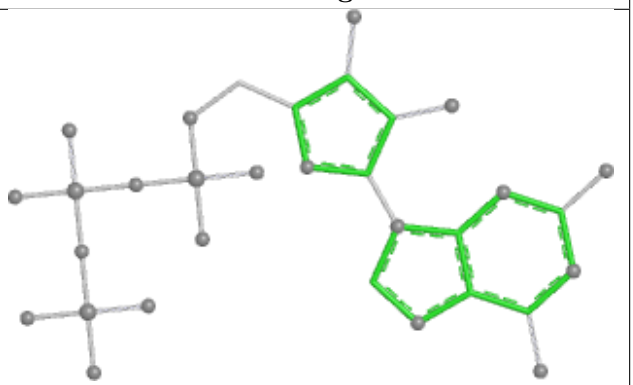
Bond lengths



Bond angles

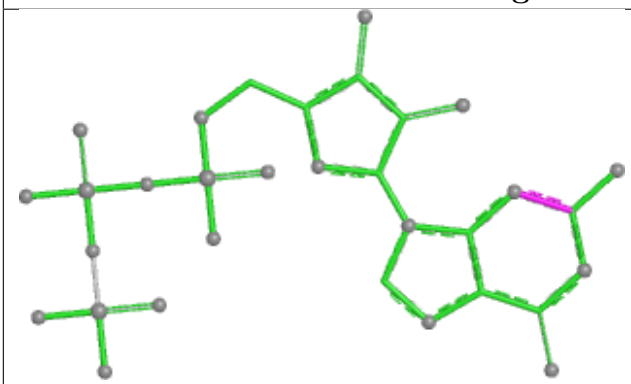


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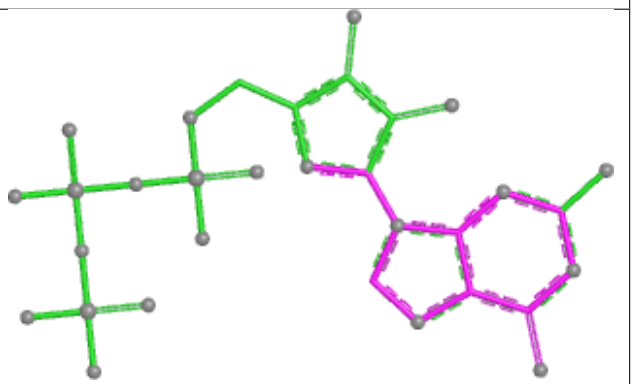


Rings

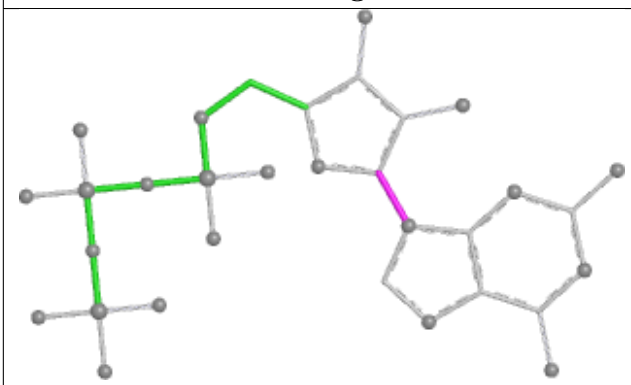
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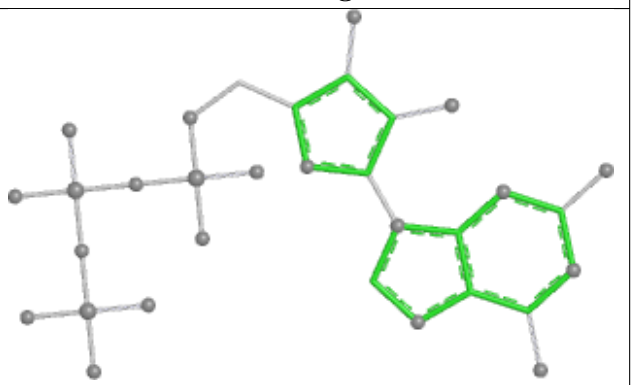
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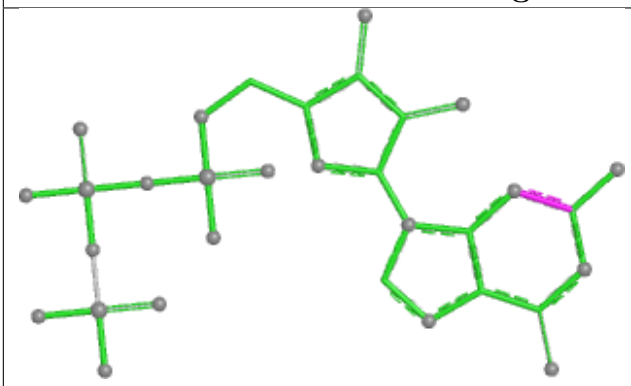


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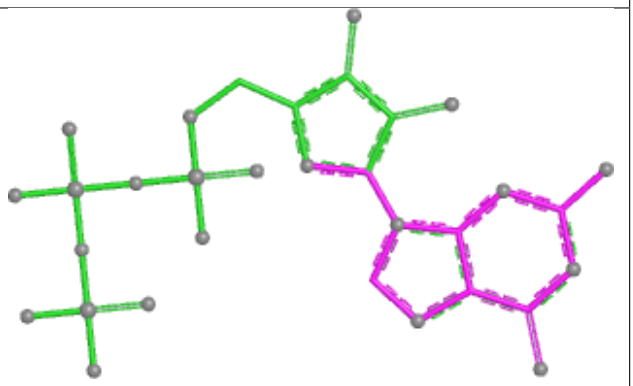


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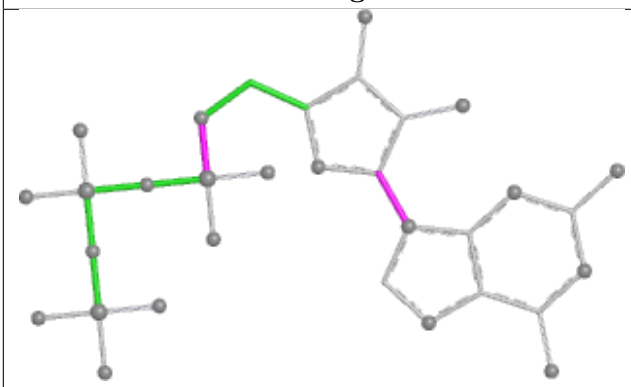
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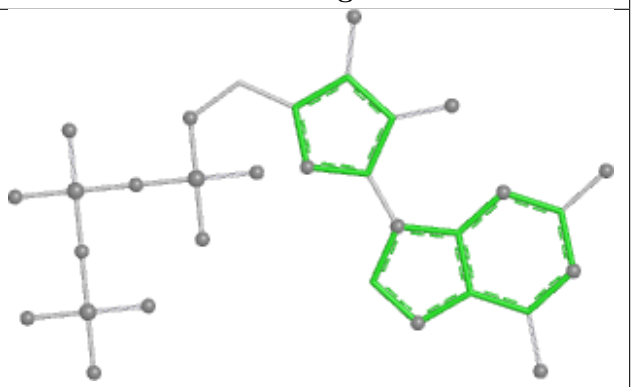
Bond lengths



Bond angles

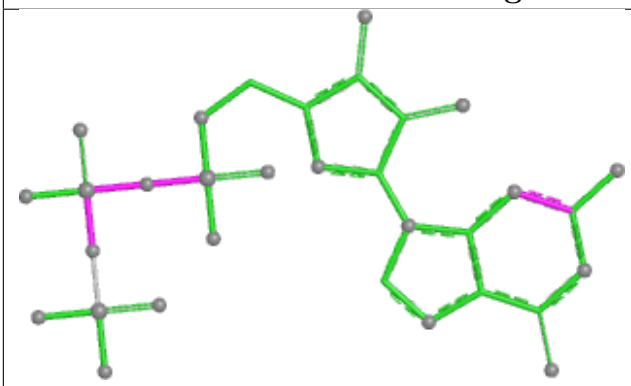


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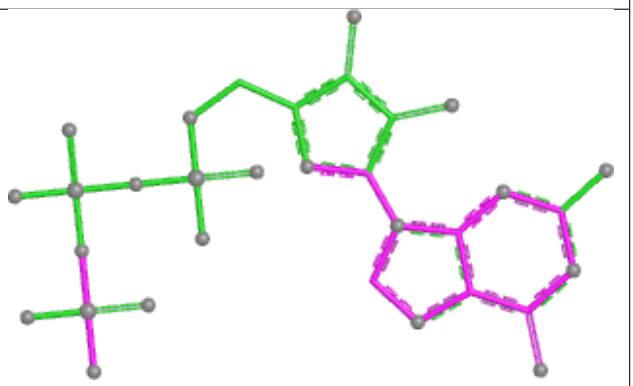


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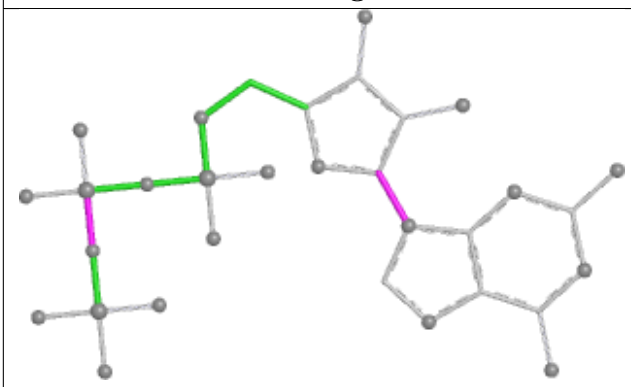
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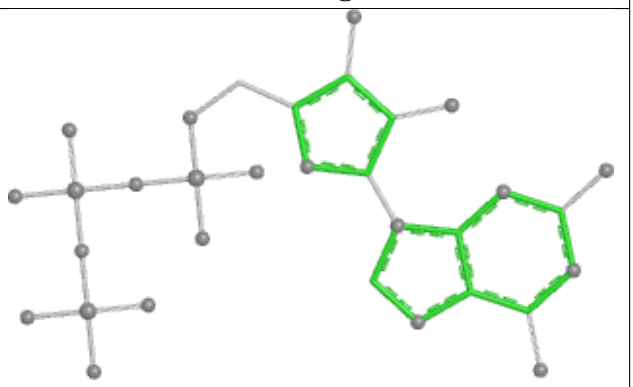
Bond lengths



Bond angles

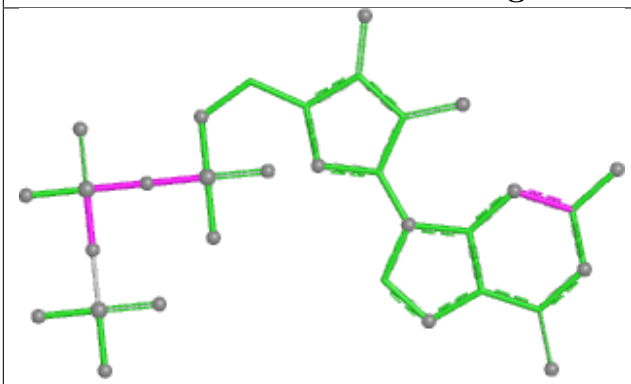


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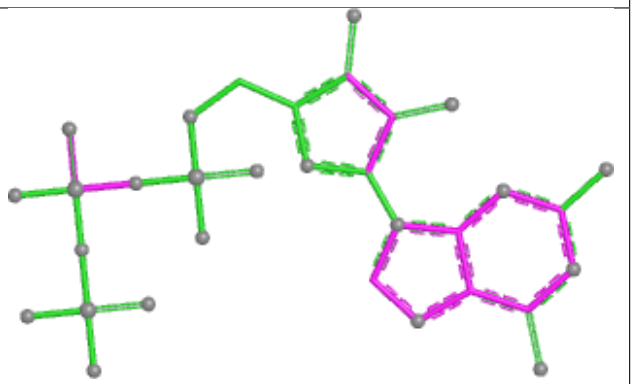


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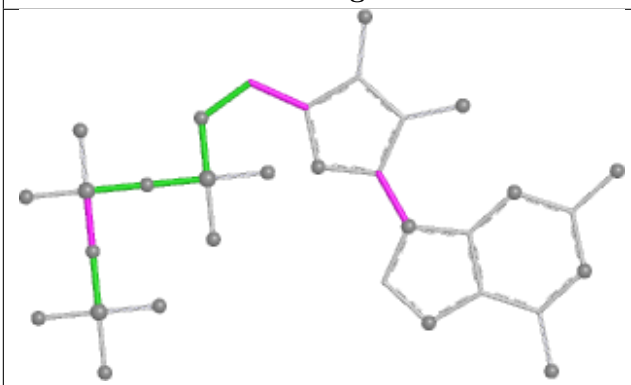
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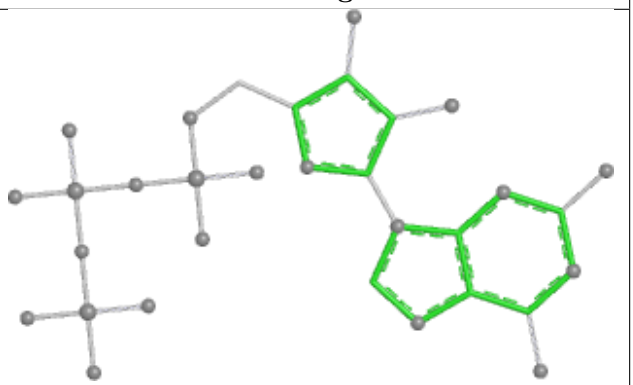
Bond lengths



Bond angles

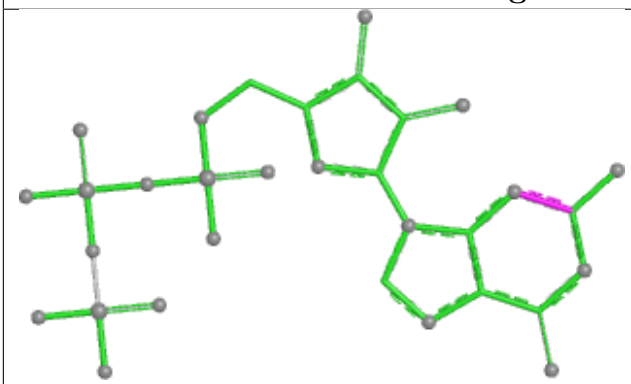


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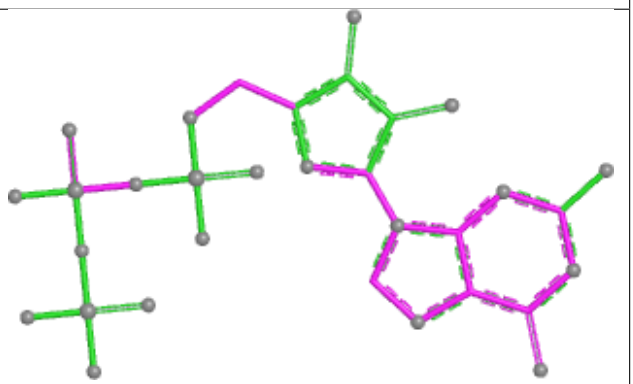


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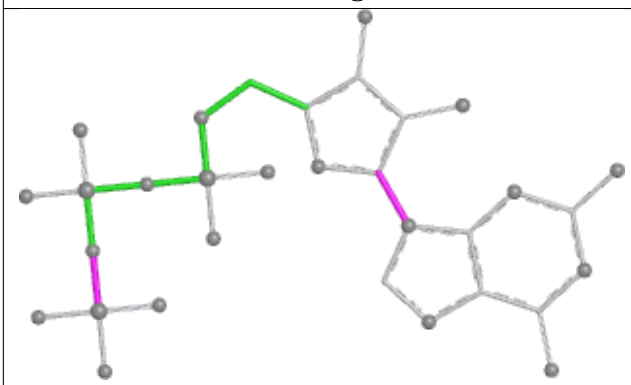
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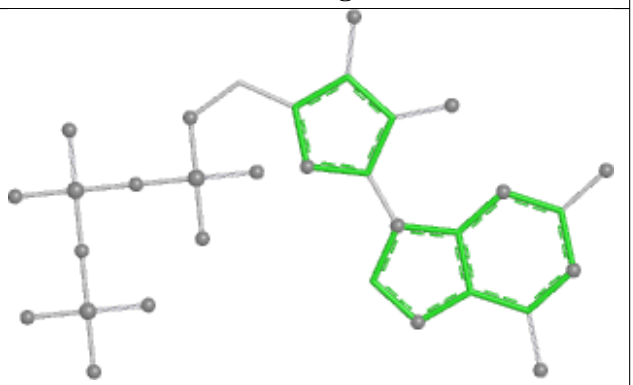
Bond lengths



Bond angles

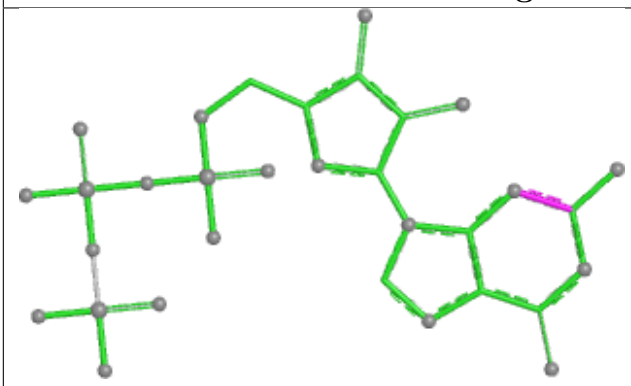


Torsions

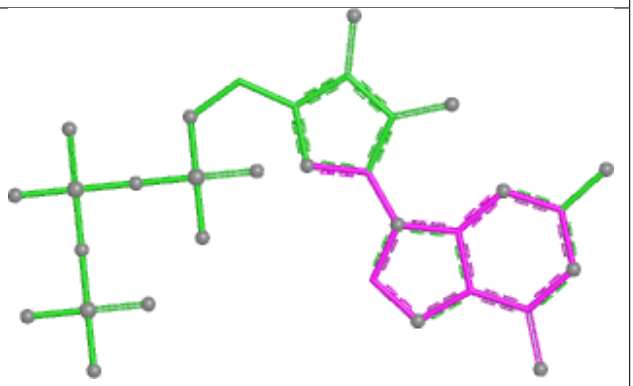


Rings

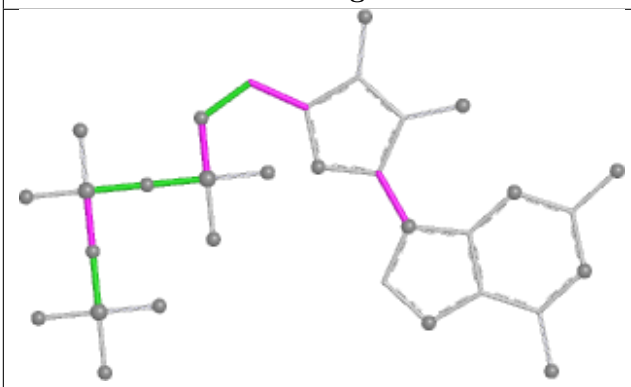
Ligand GTP JL 501



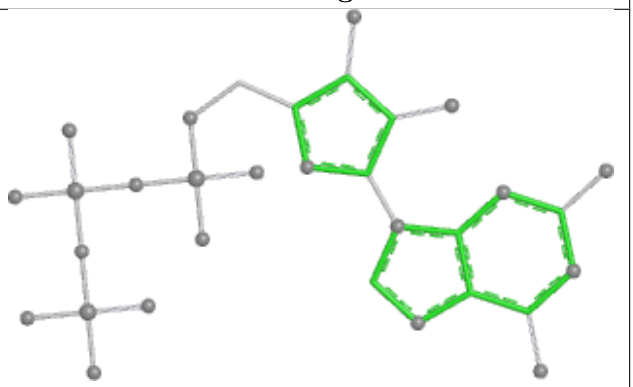
Bond lengths



Bond angles

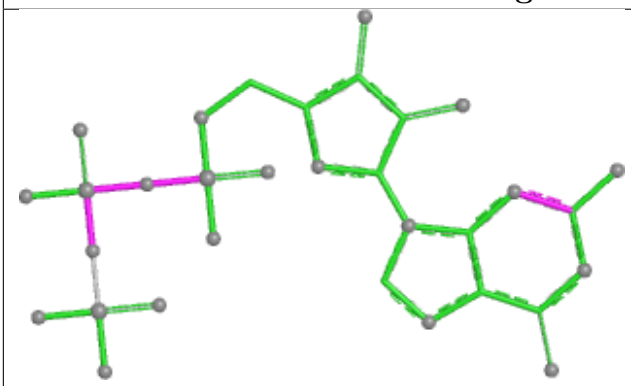


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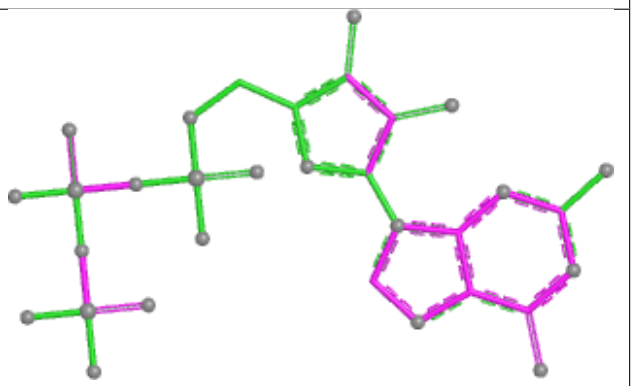


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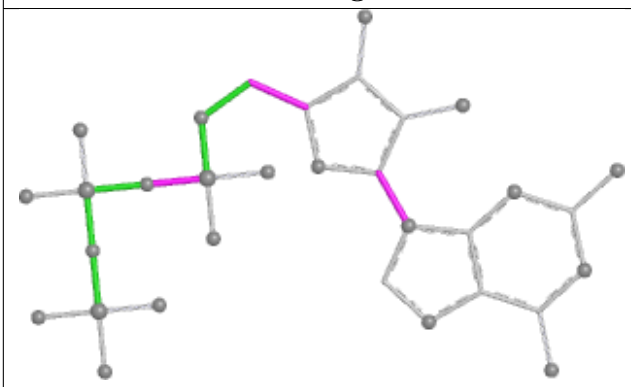
Ligand GTP UI 501



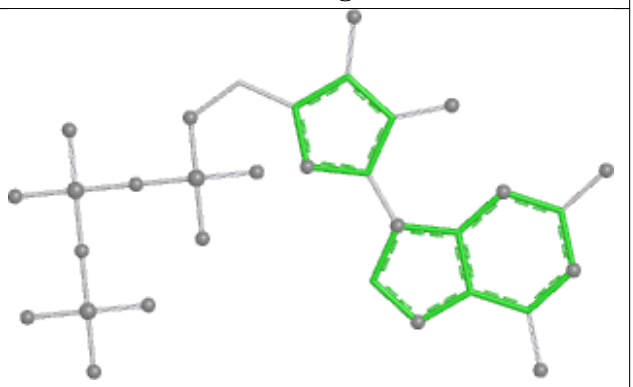
Bond lengths



Bond angles

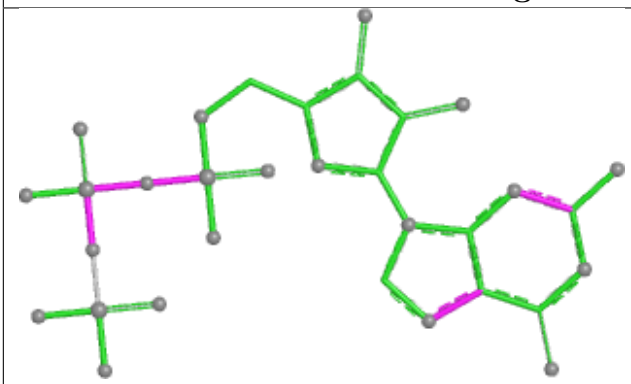


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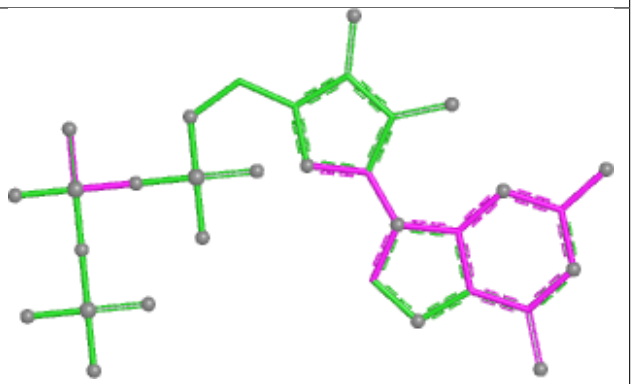


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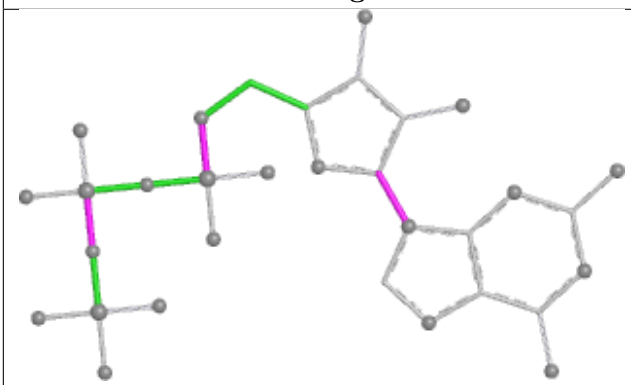
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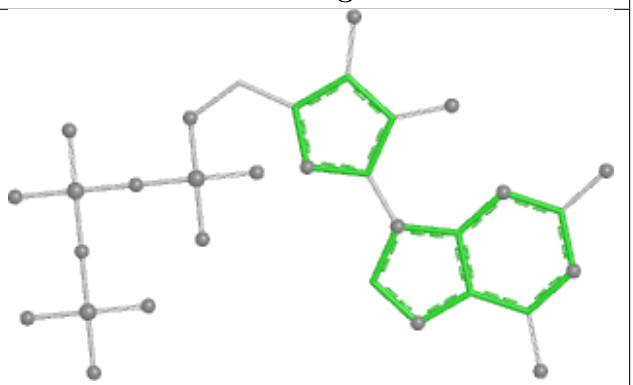
Bond lengths



Bond angles

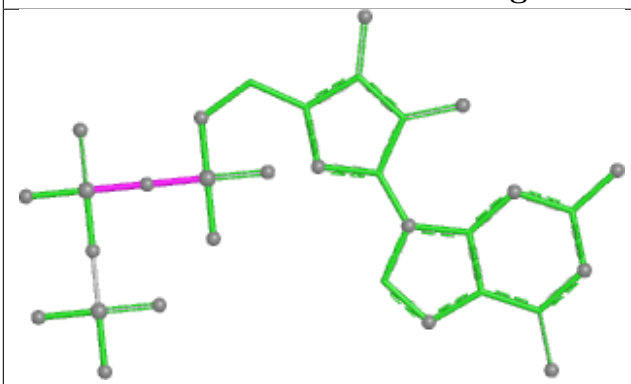


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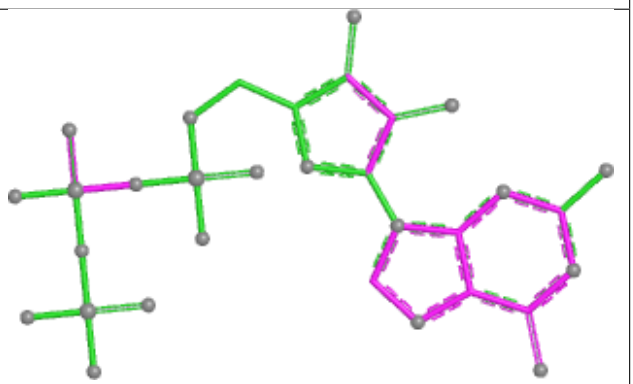


Rings

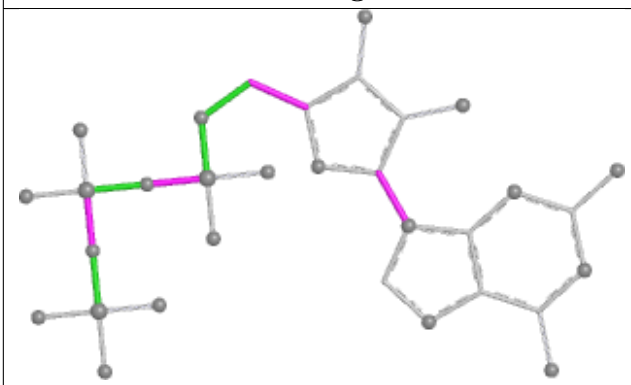
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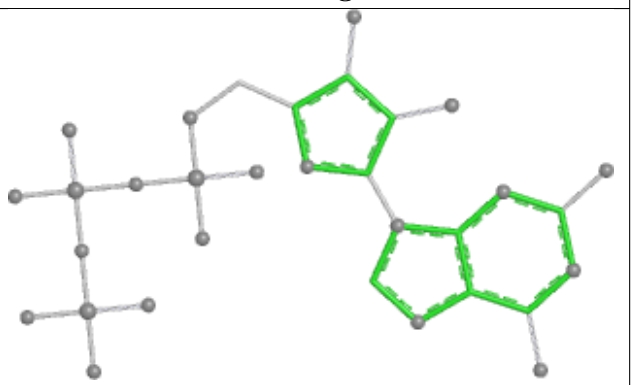
Bond lengths



Bond angles

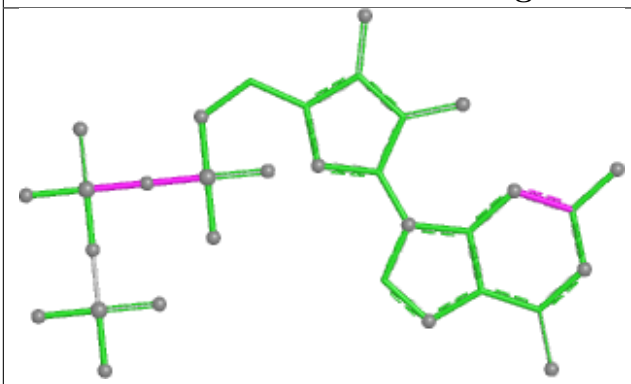


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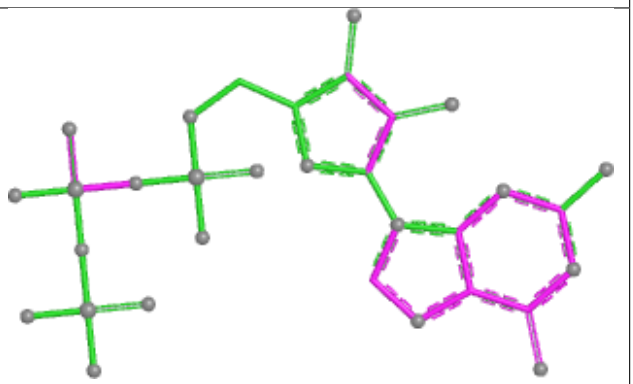


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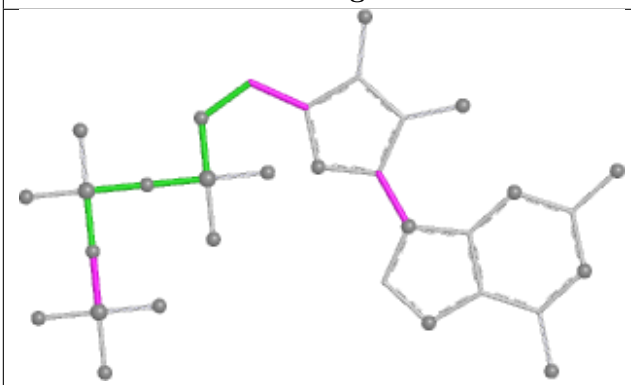
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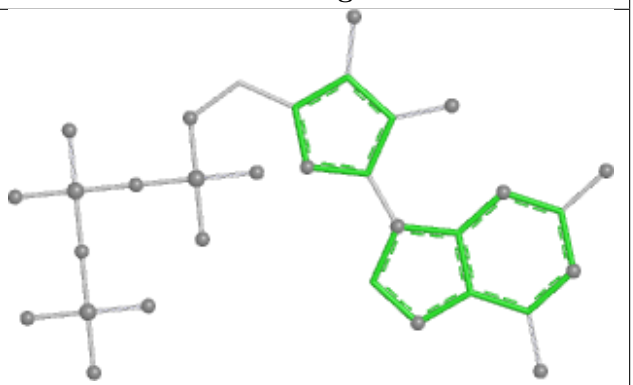
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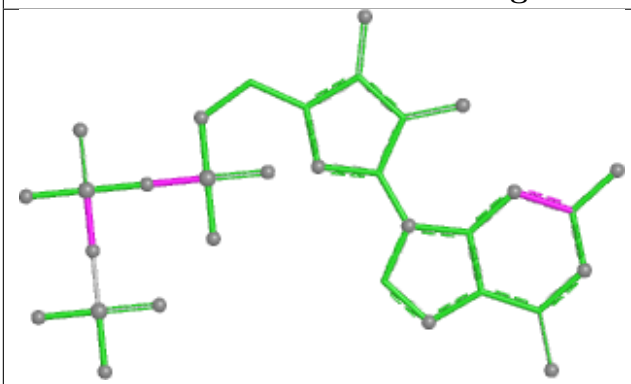


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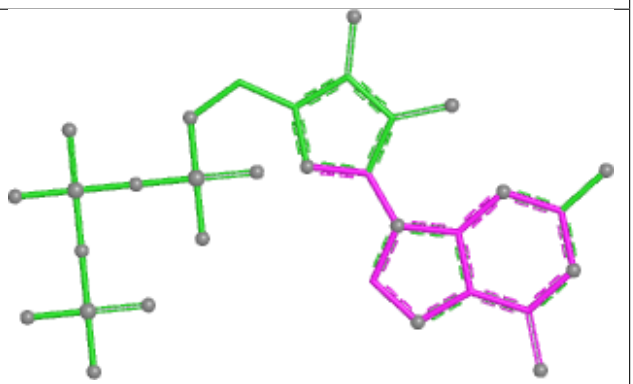


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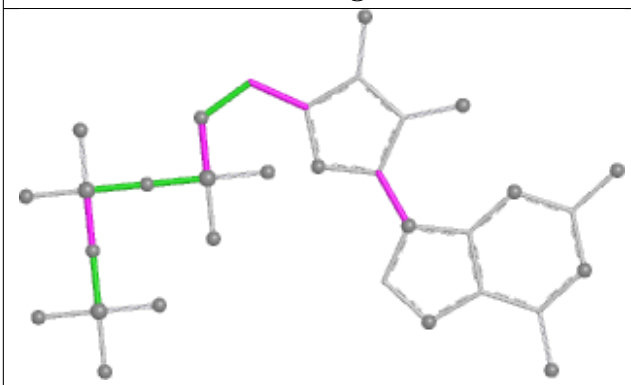
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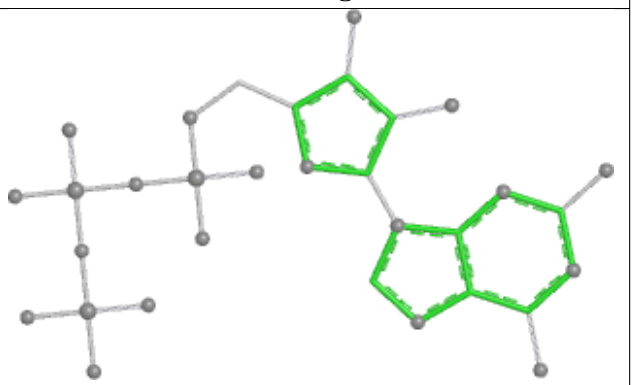
Bond lengths



Bond angles

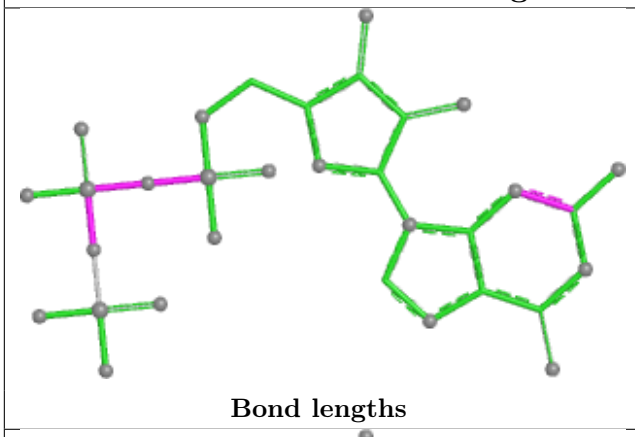


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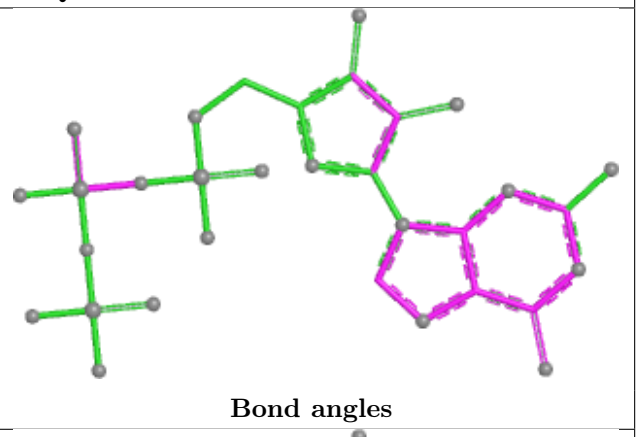


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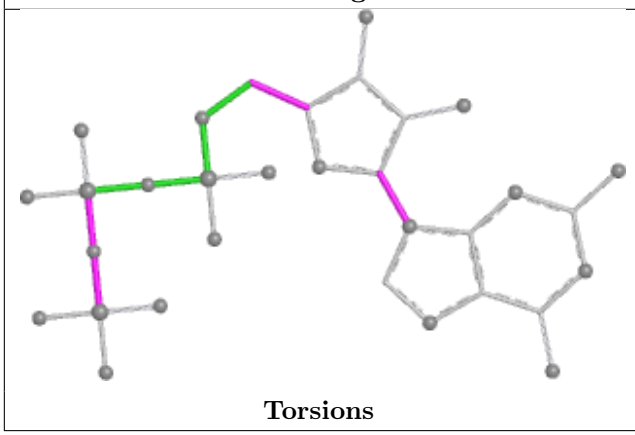
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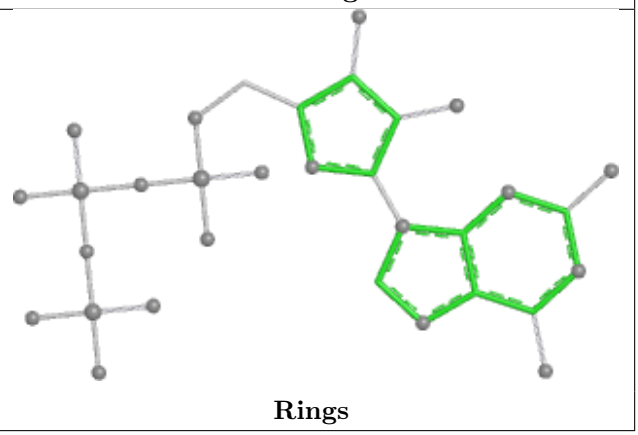
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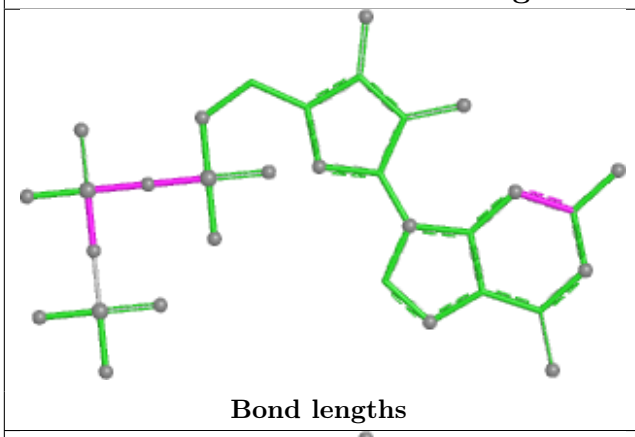


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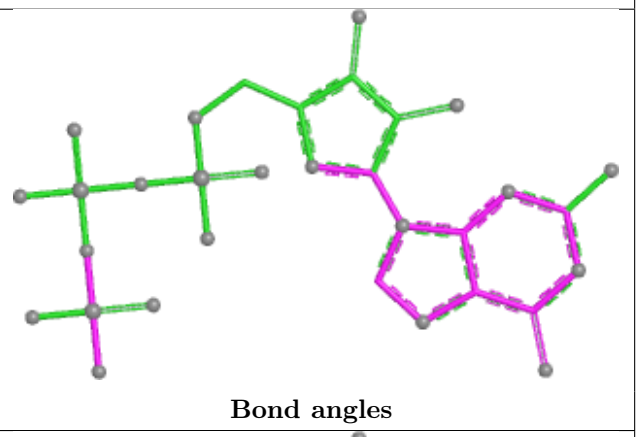


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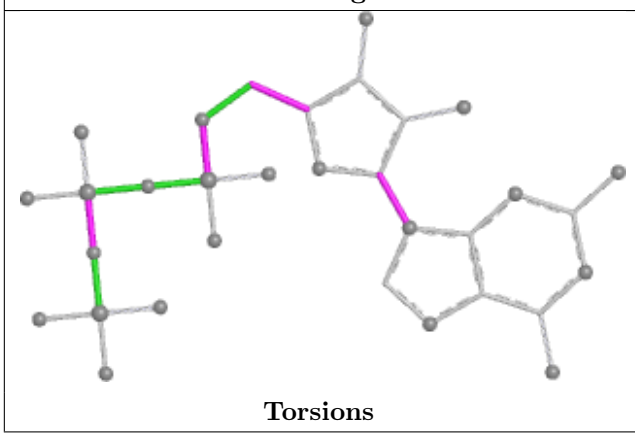
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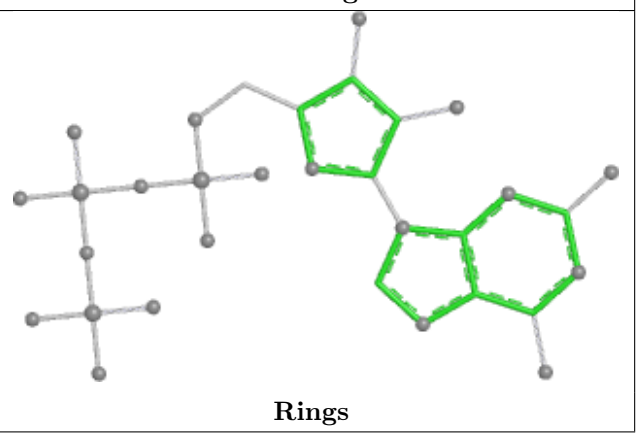
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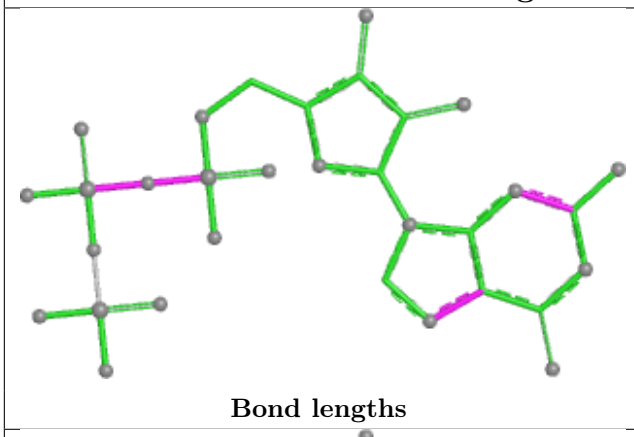


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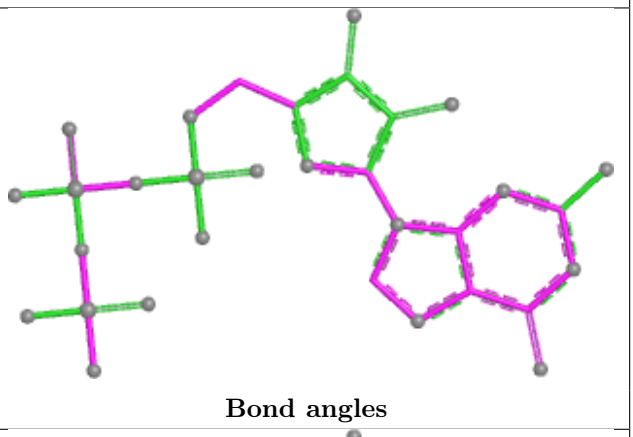


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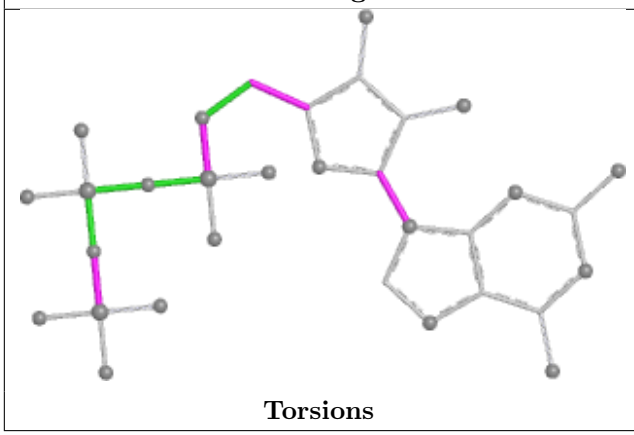
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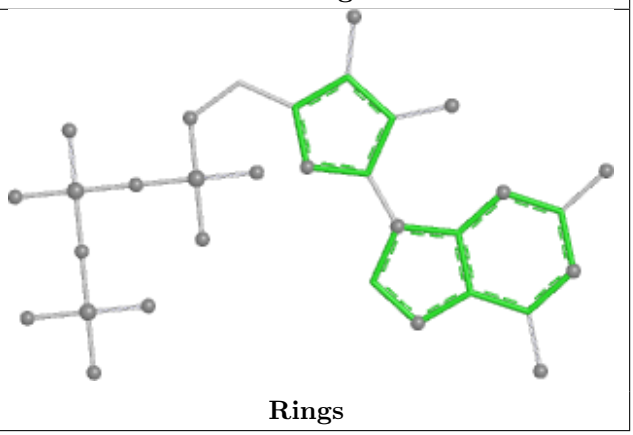
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Bond angles

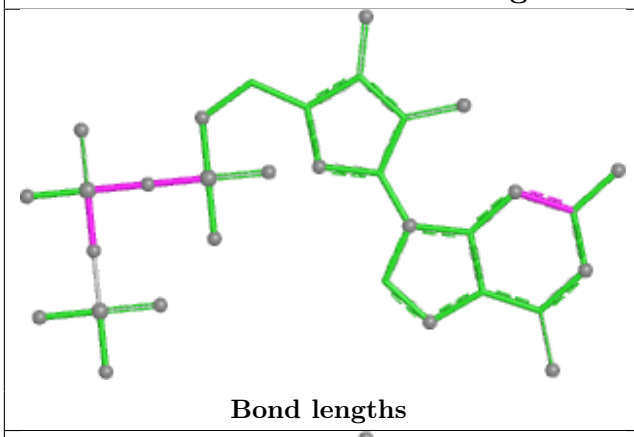


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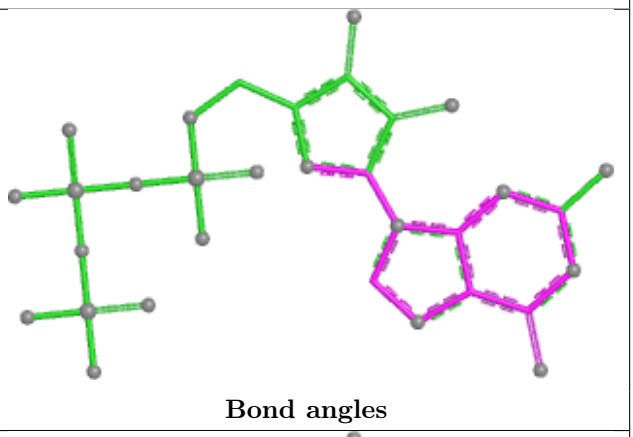


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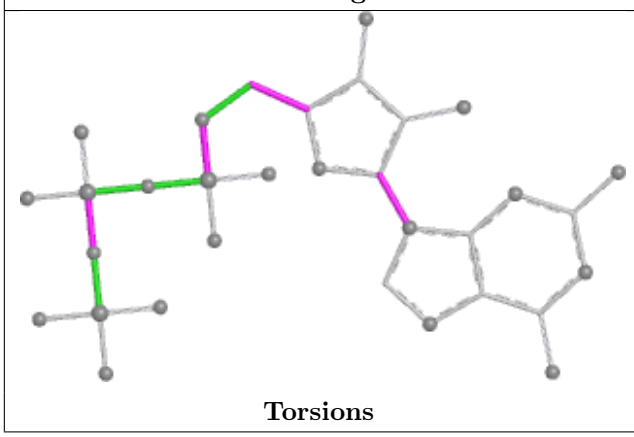
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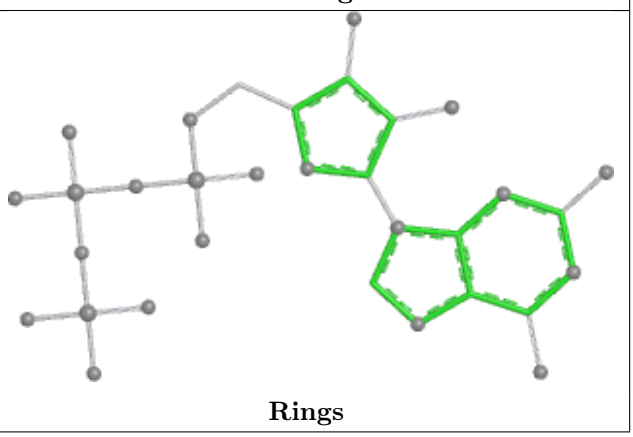
Bond lengths



Bond angles

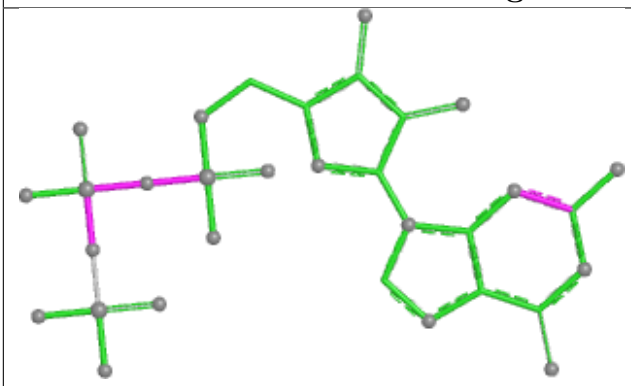


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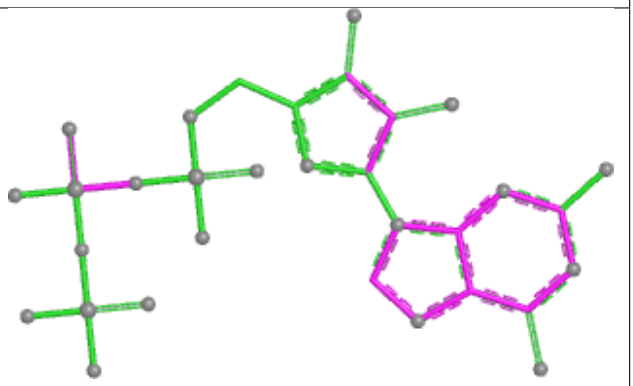


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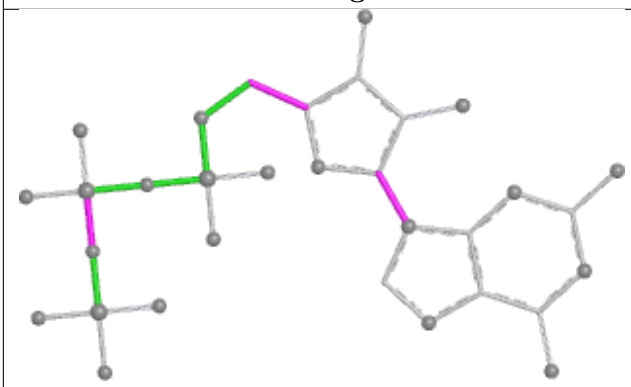
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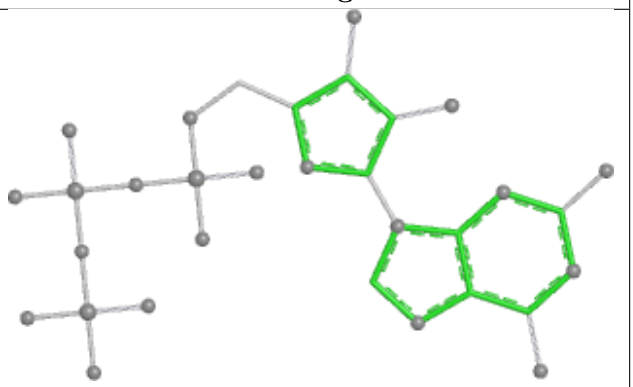
Bond lengths



Bond angles

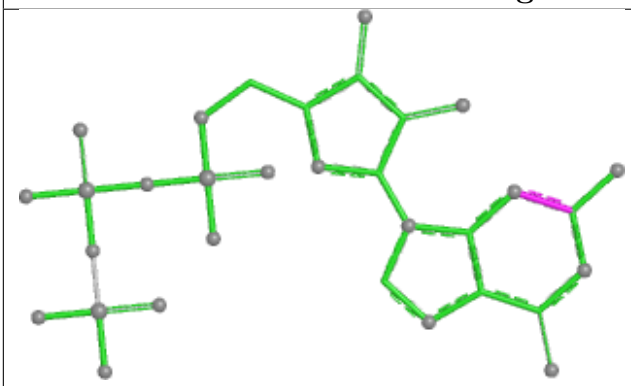


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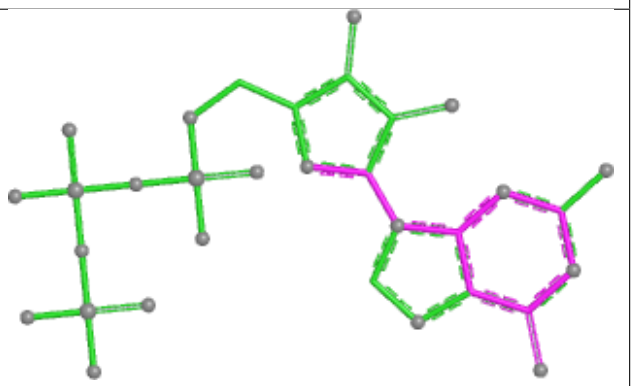


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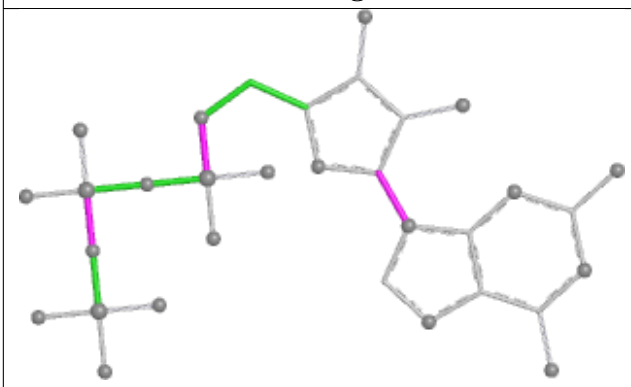
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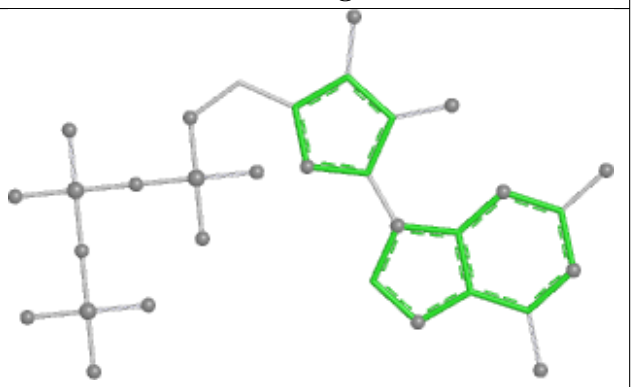
Bond lengths



Bond angles

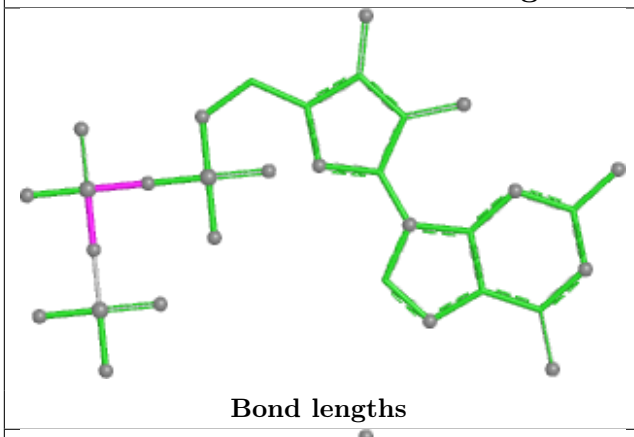


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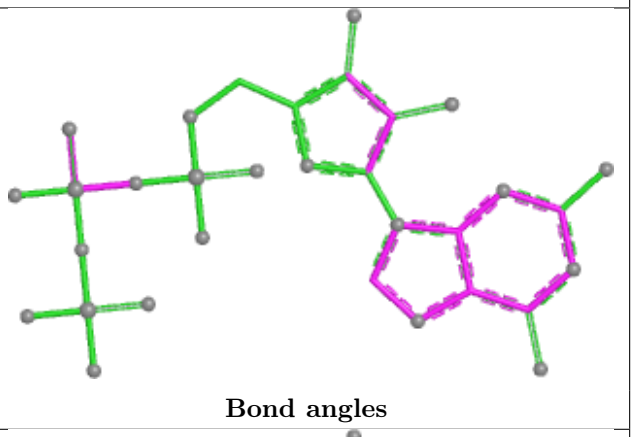


Rings

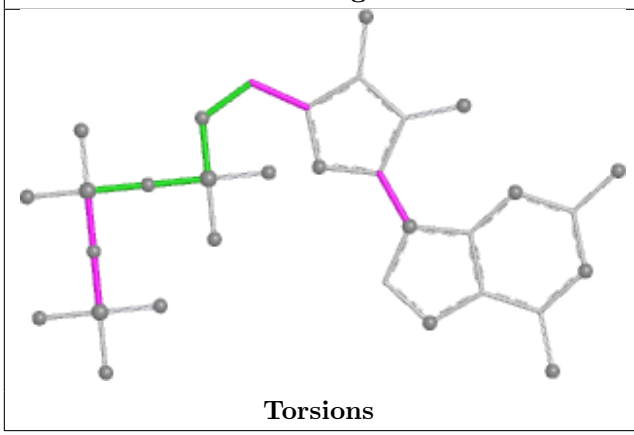
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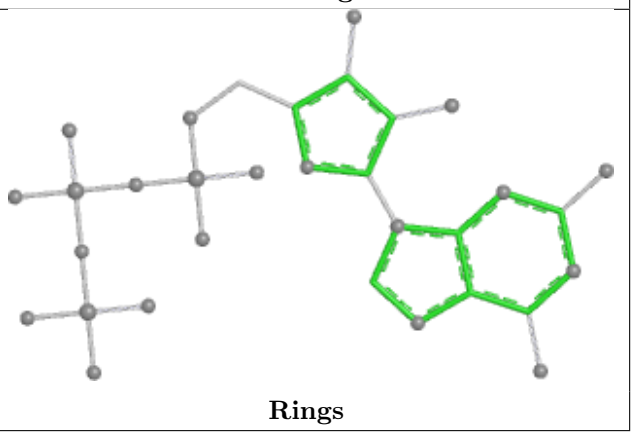
Bond lengths



Bond angles

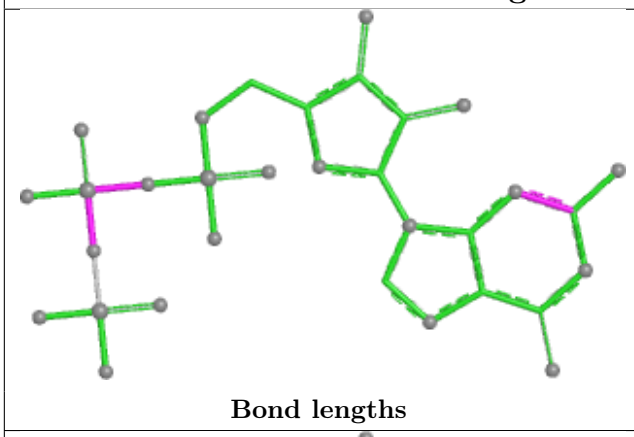


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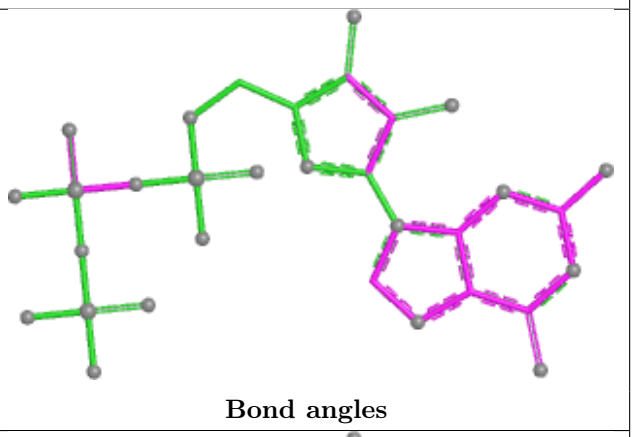


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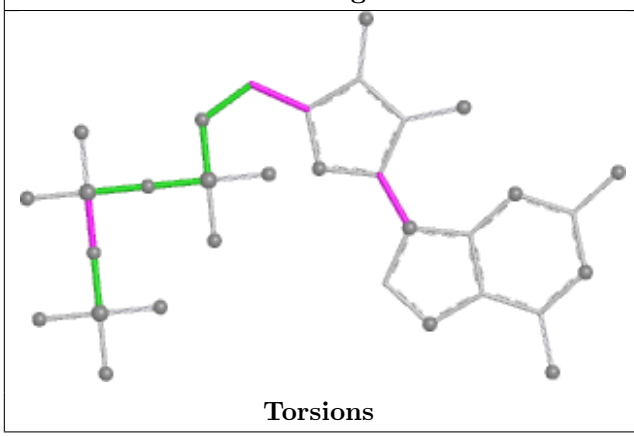
Ligand GTP OK 501



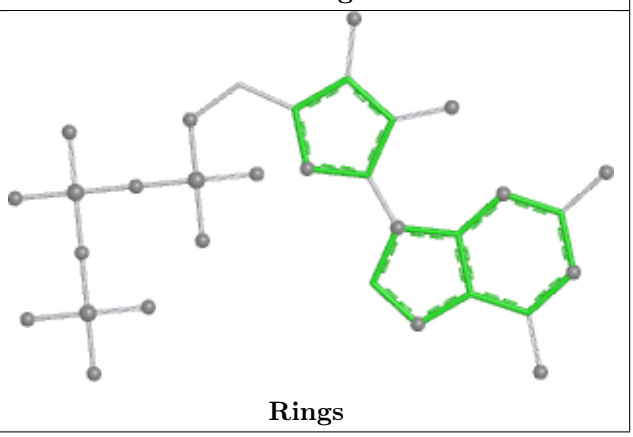
Bond lengths



Bond angles

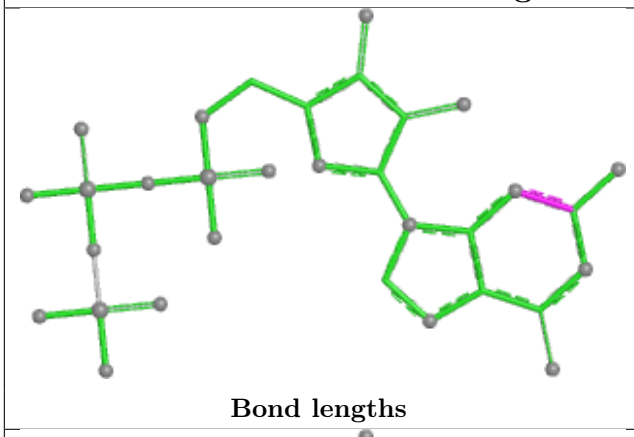


Torsions

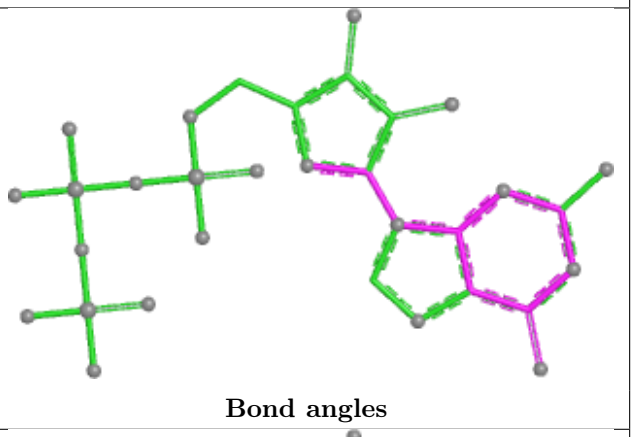


Rings

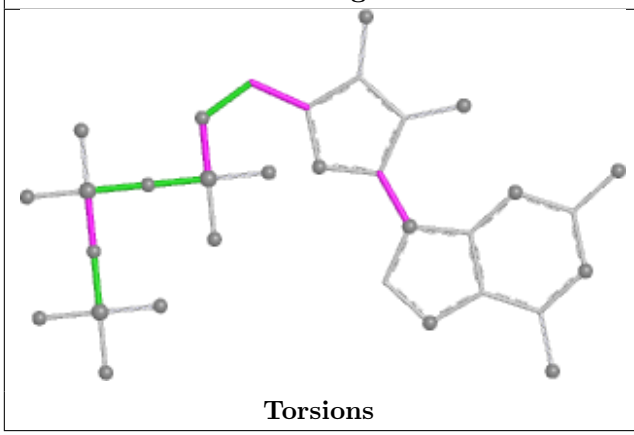
Ligand GTP CJ 501



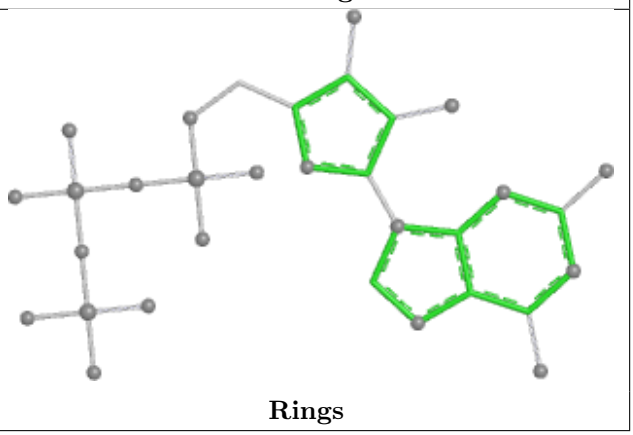
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Bond angles

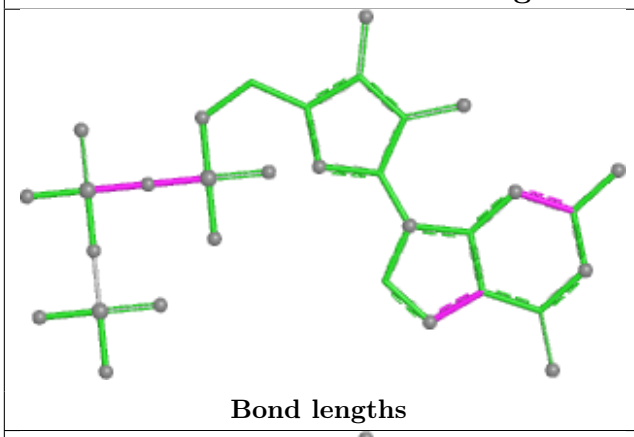


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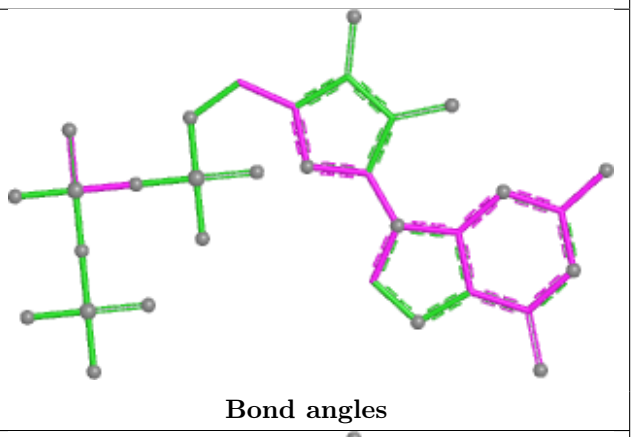


Rings

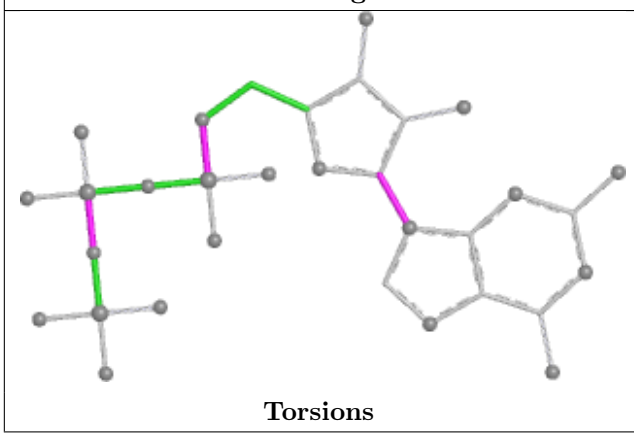
Ligand GTP EF 501



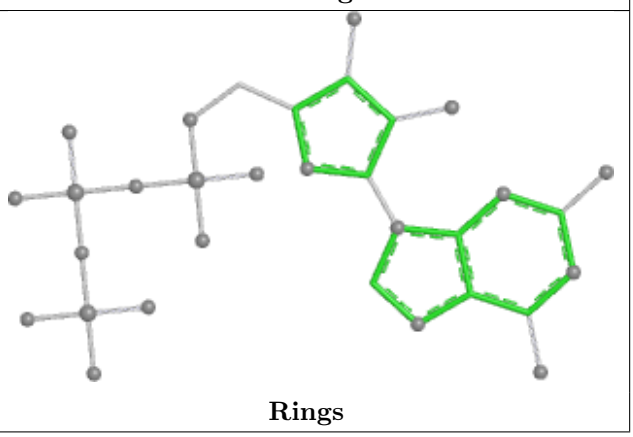
Bond lengths



Bond angles

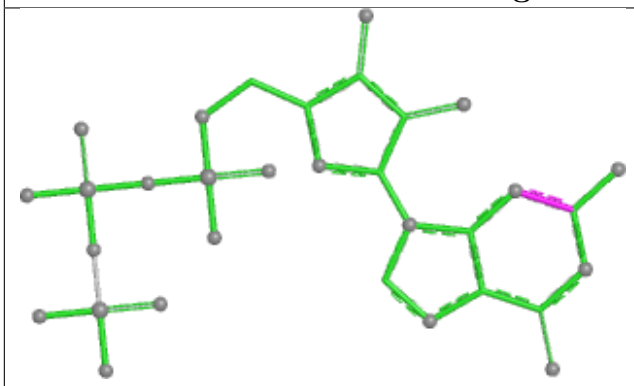


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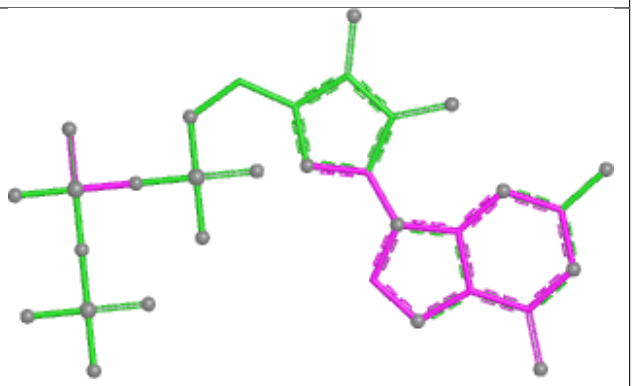


Rings

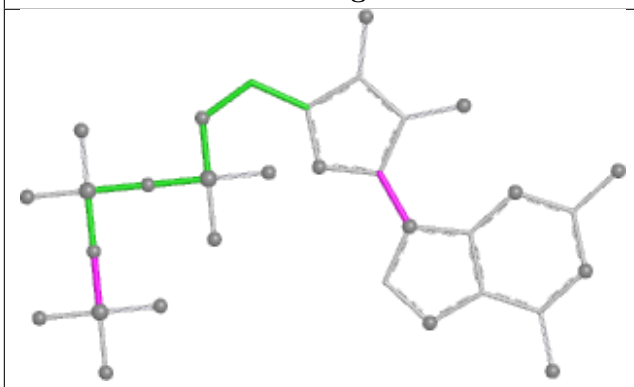
Ligand GTP PF 501



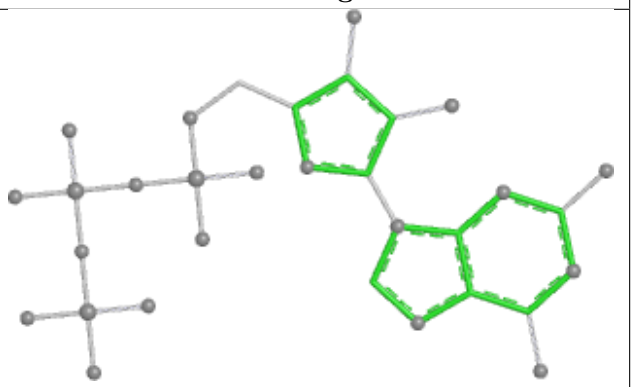
Bond lengths



Bond angles

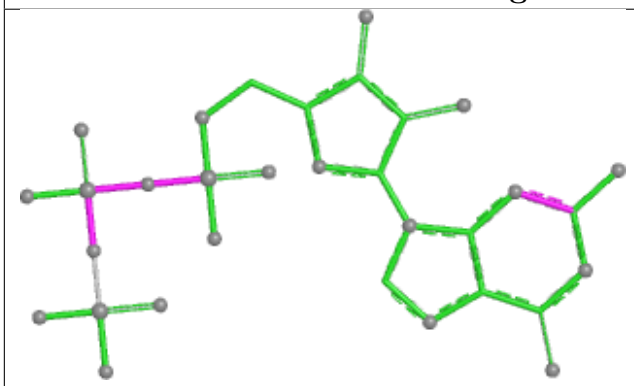


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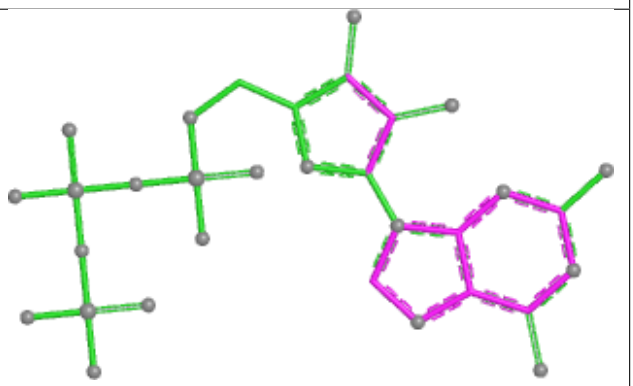


Rings

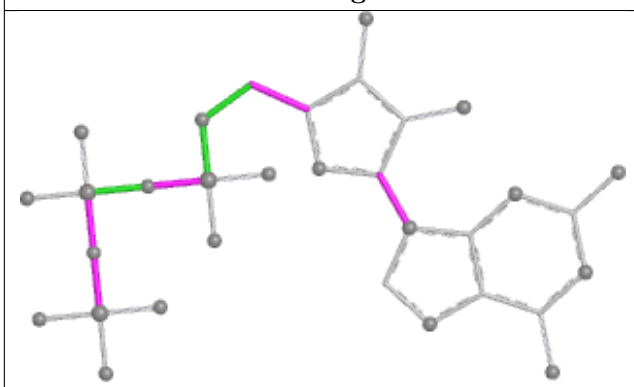
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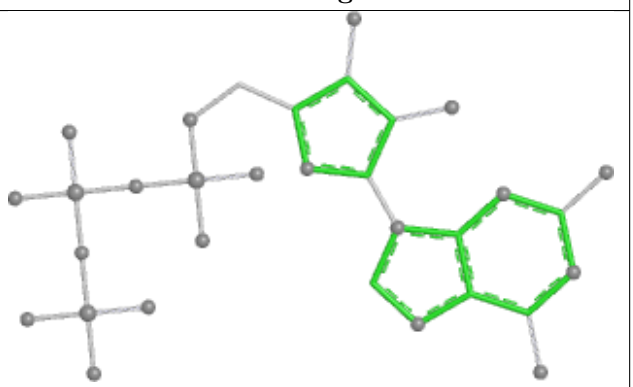
Bond lengths



Bond angles

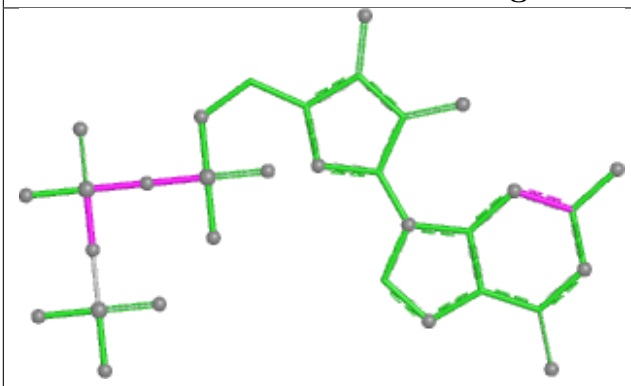


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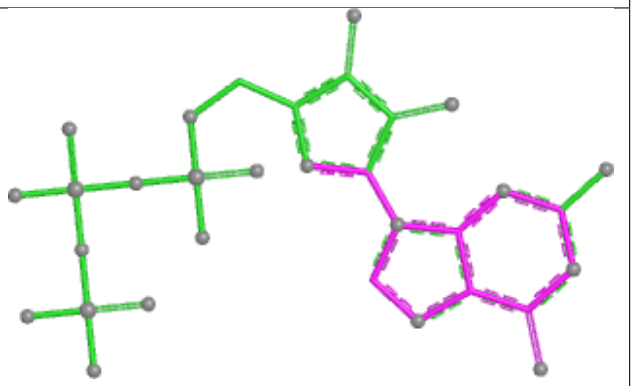


Rings

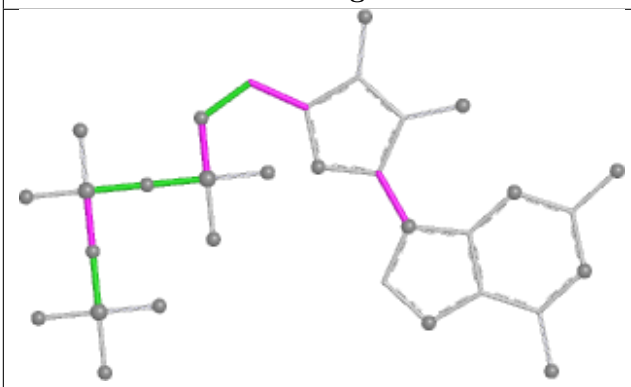
Ligand GTP EH 501



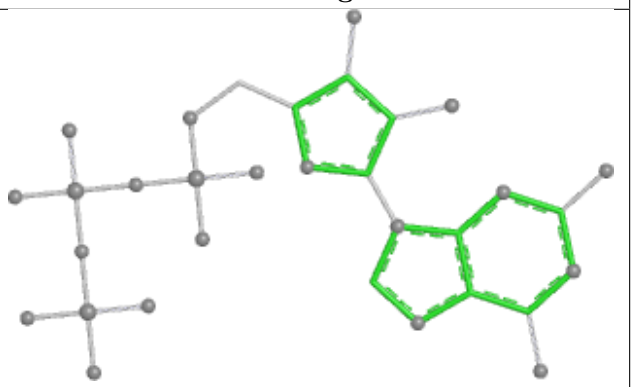
Bond lengths



Bond angles

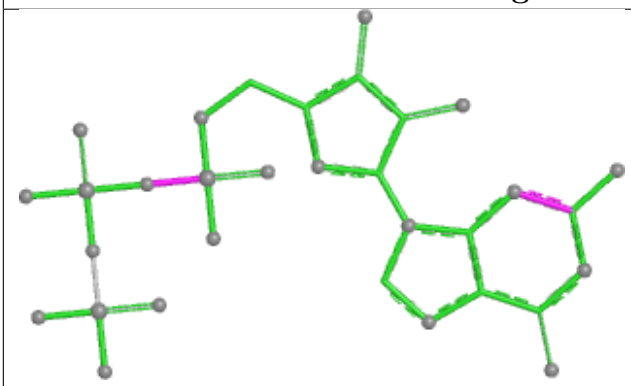


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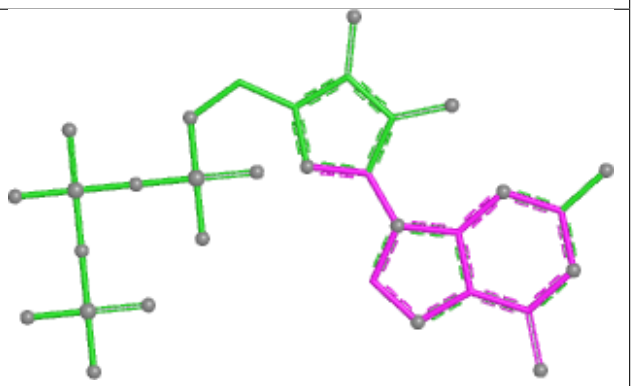


Rings

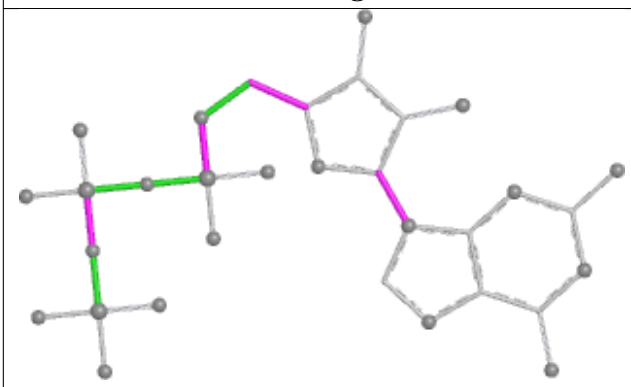
Ligand GTP BF 501



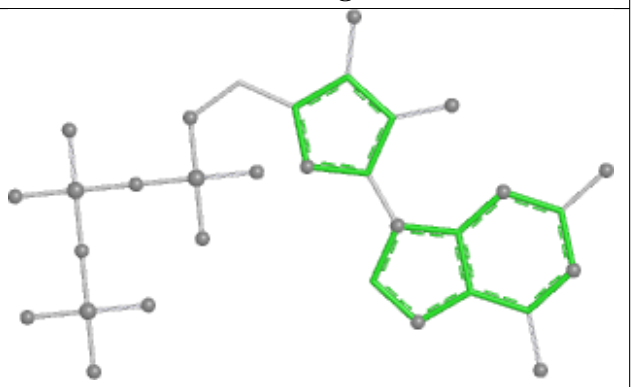
Bond lengths



Bond angles

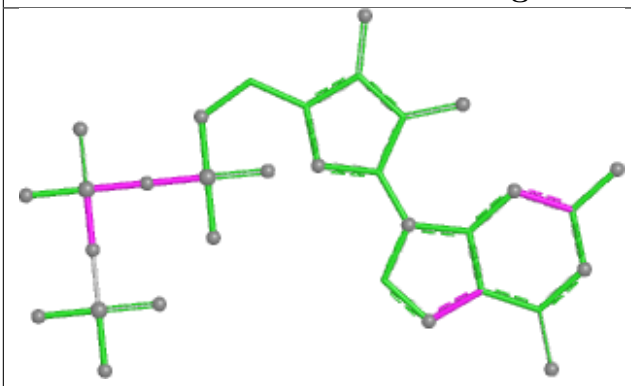


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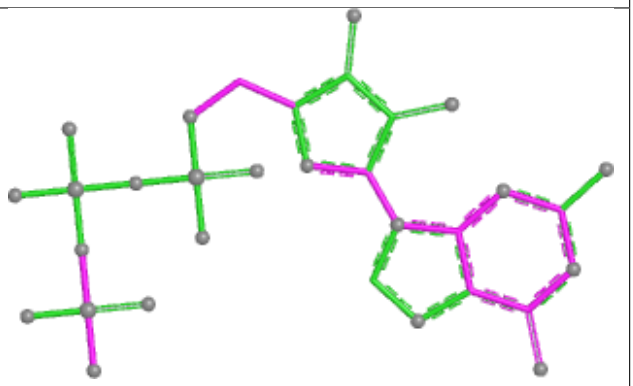


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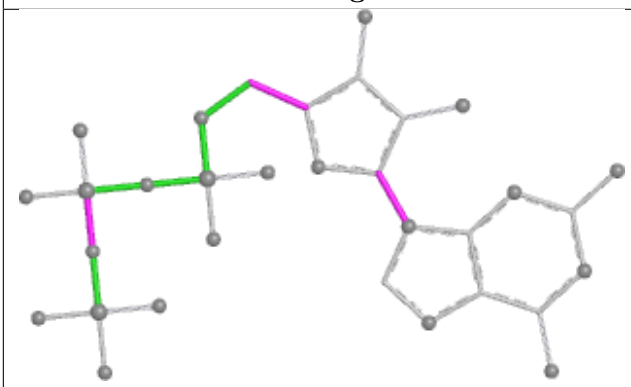
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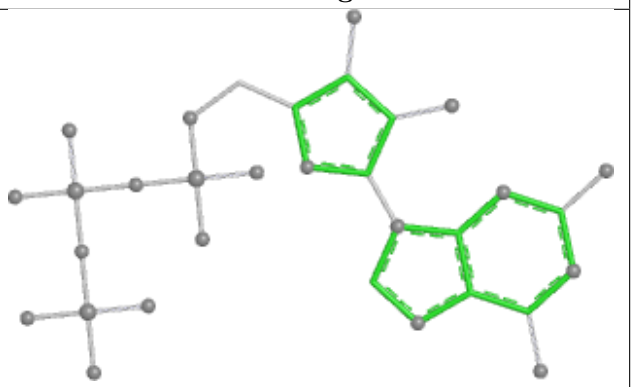
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Bond angles

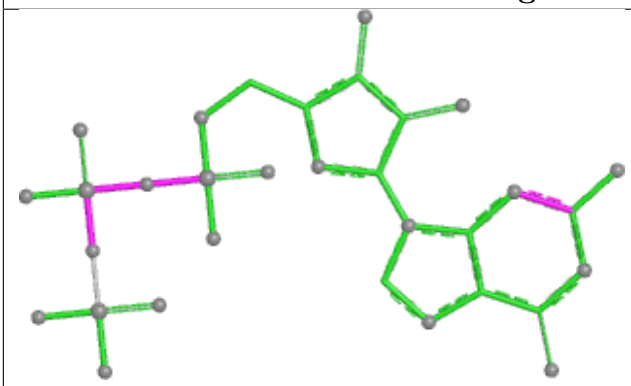


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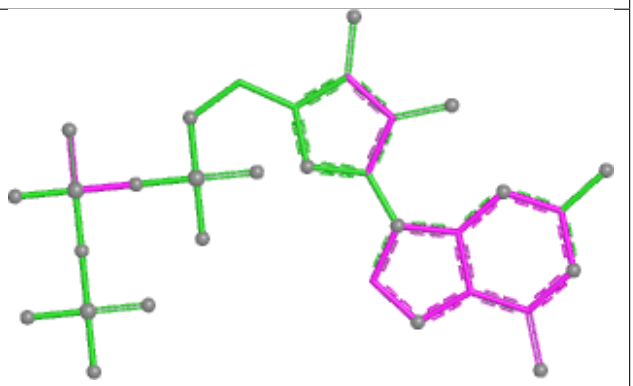


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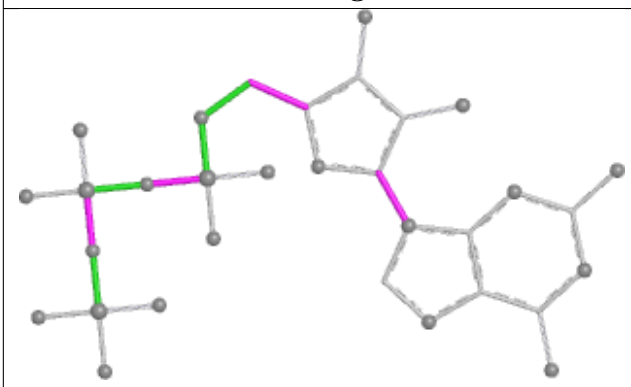
Ligand GTP LI 501



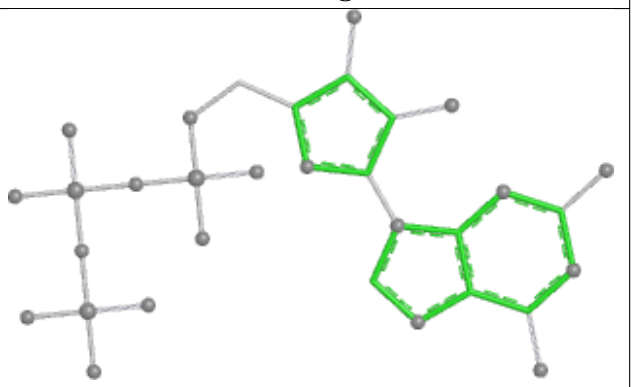
Bond lengths



Bond angles

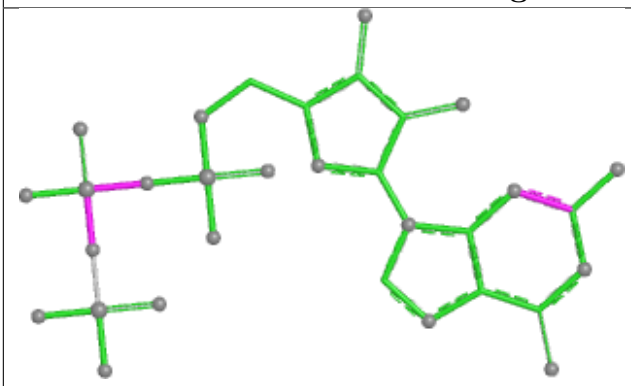


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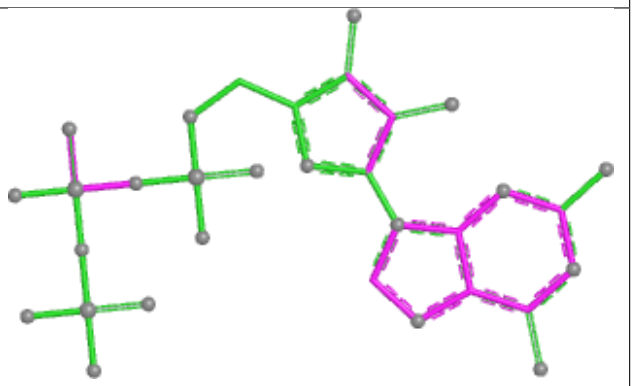


Rings

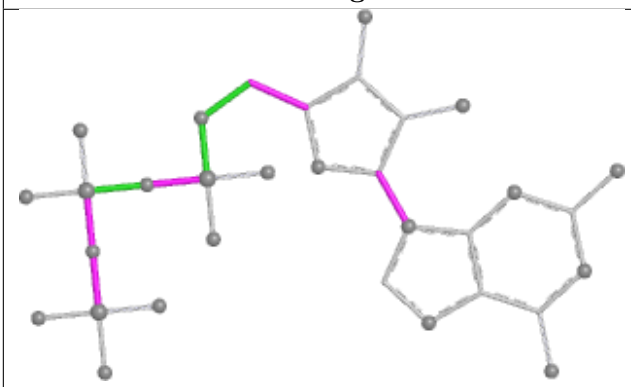
Ligand GTP KE 501



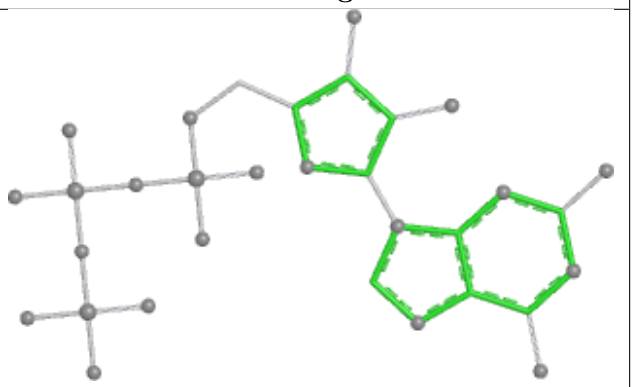
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Bond angles

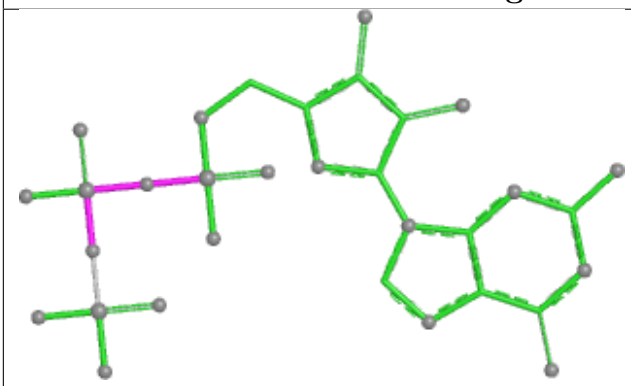


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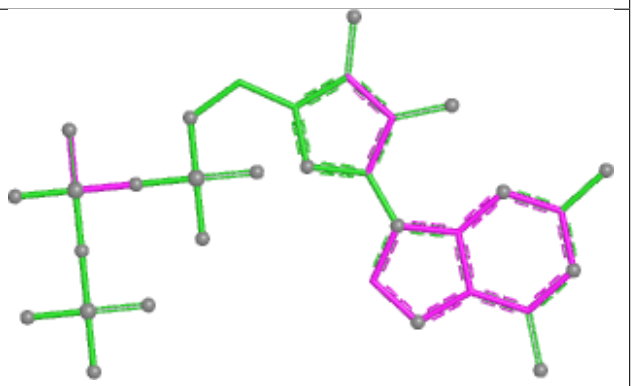


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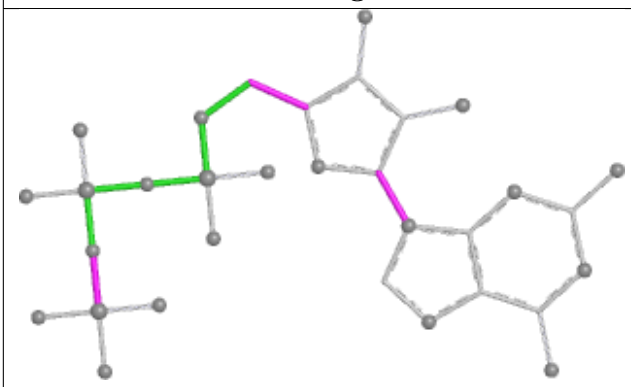
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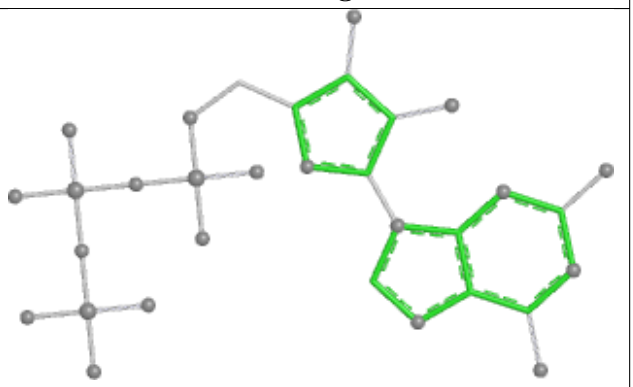
Bond lengths



Bond angles

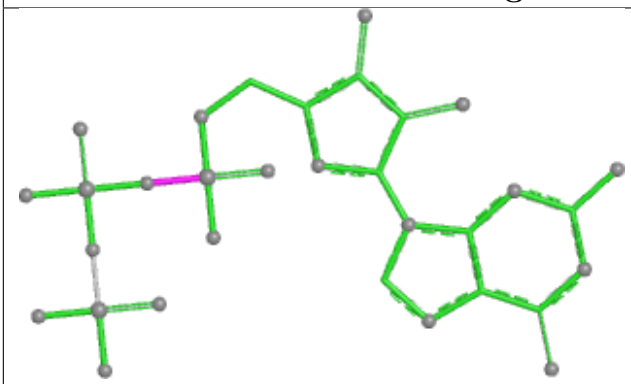


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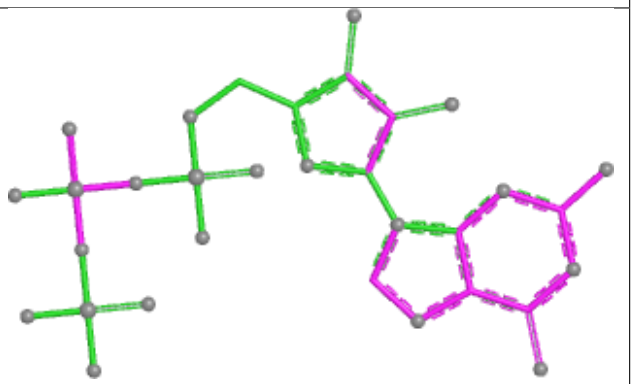


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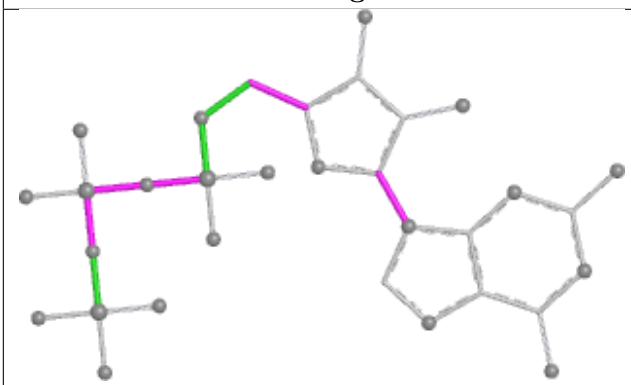
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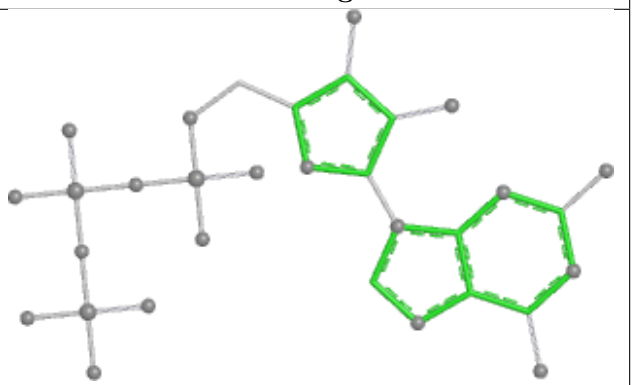
Bond lengths



Bond angles

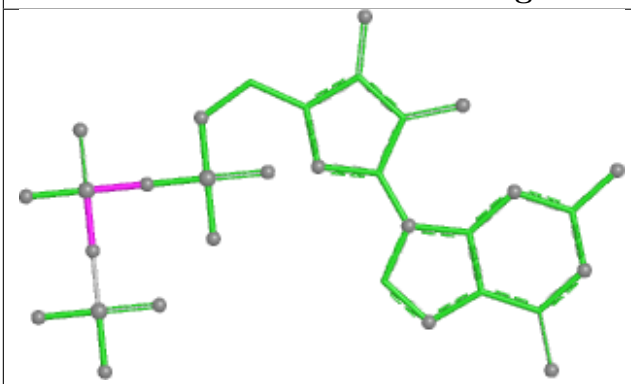


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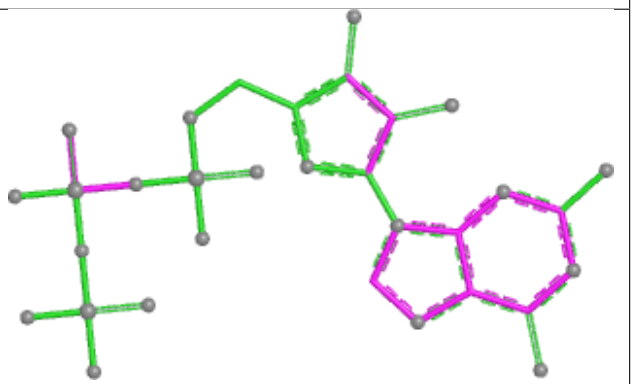


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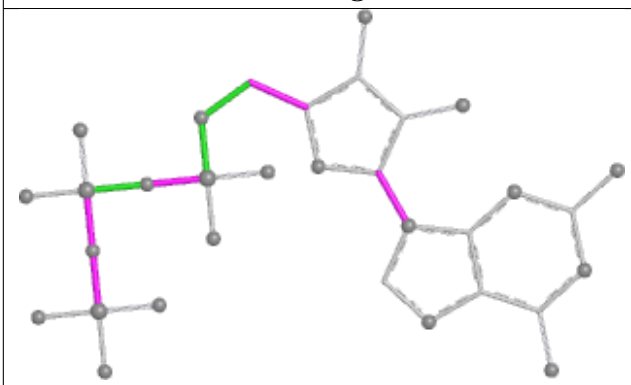
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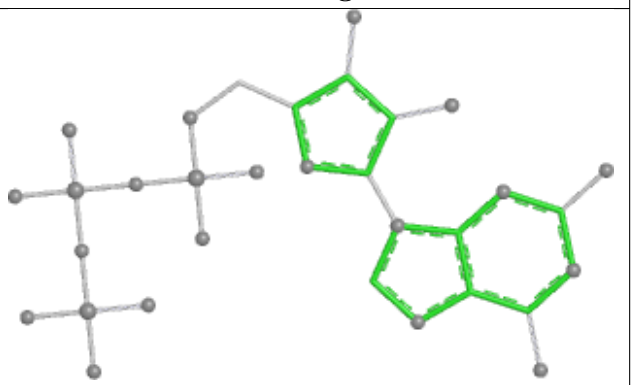
Bond lengths



Bond angles

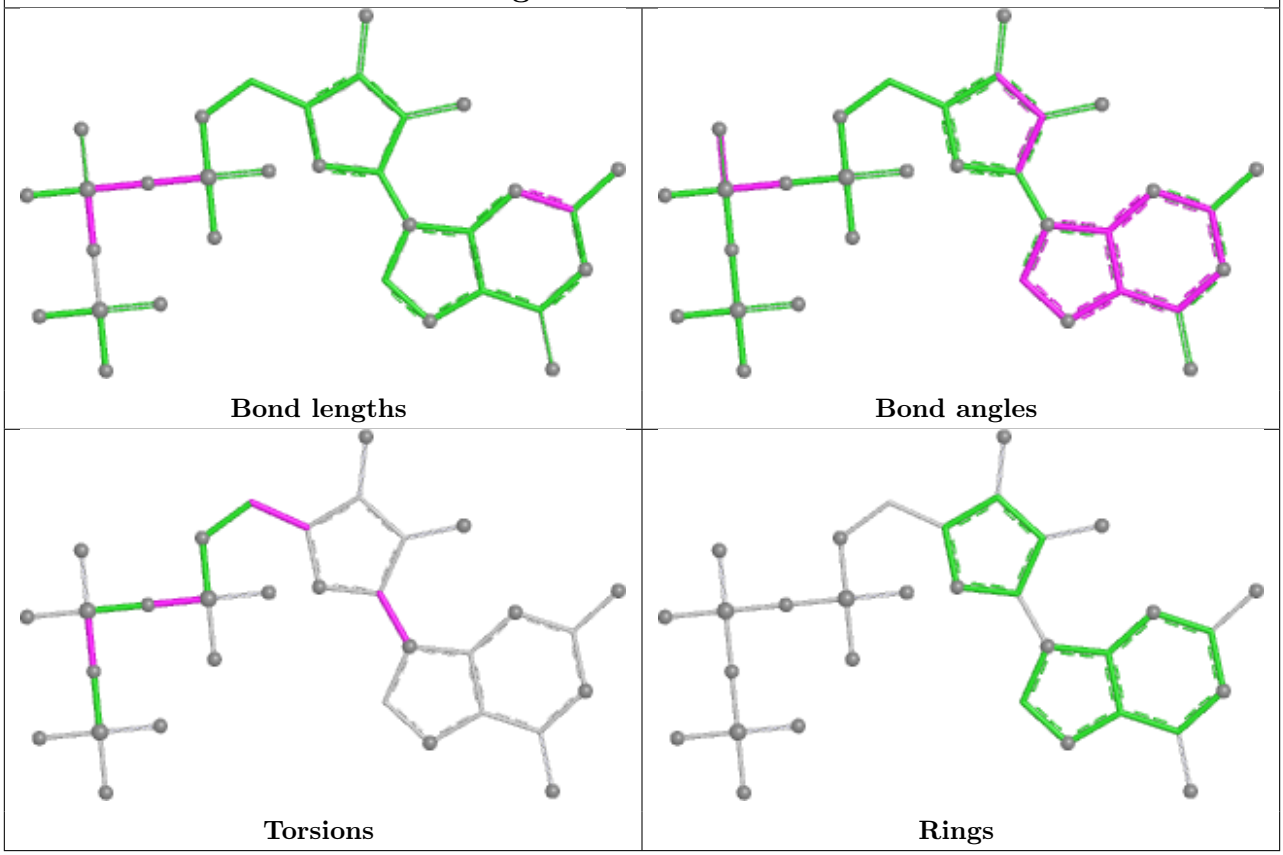


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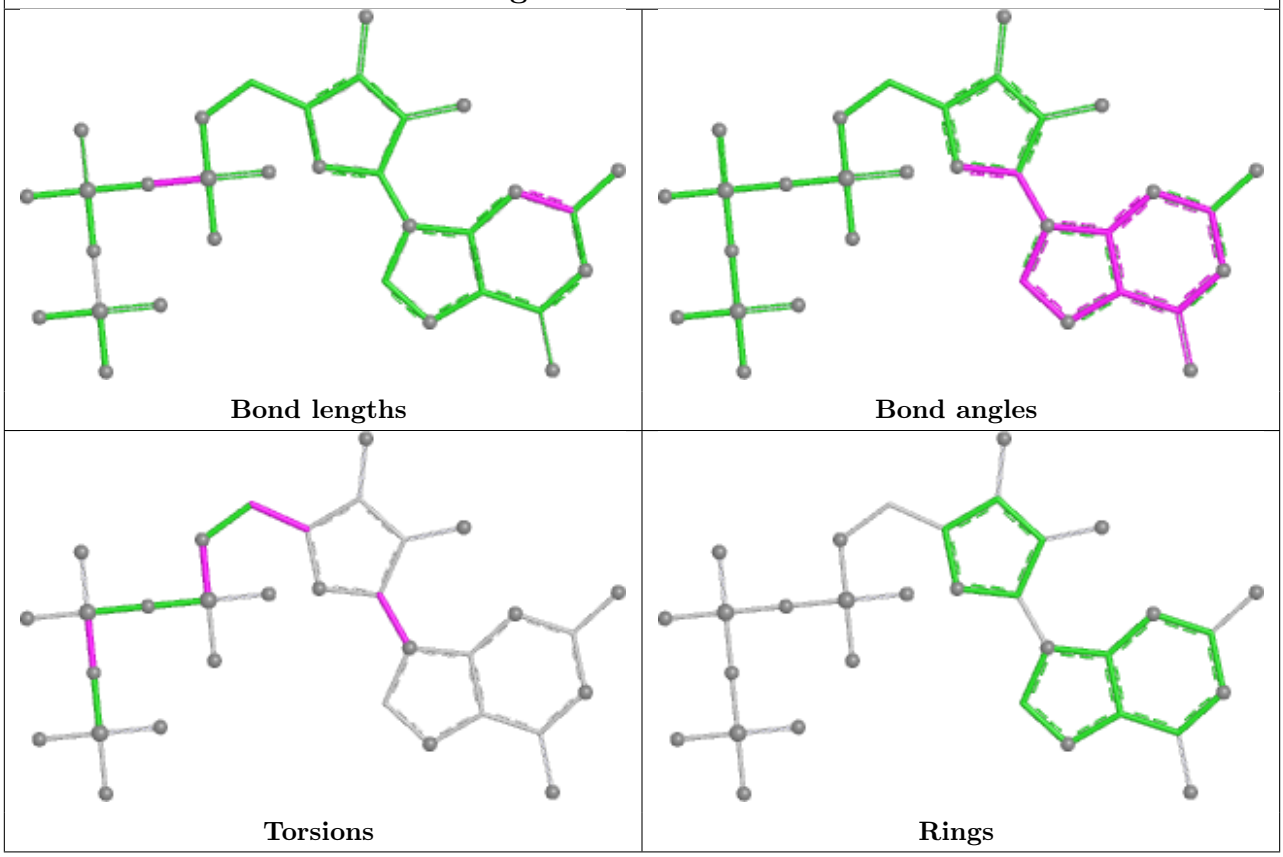


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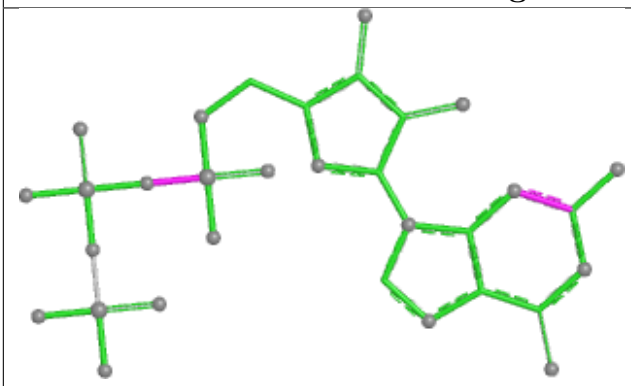
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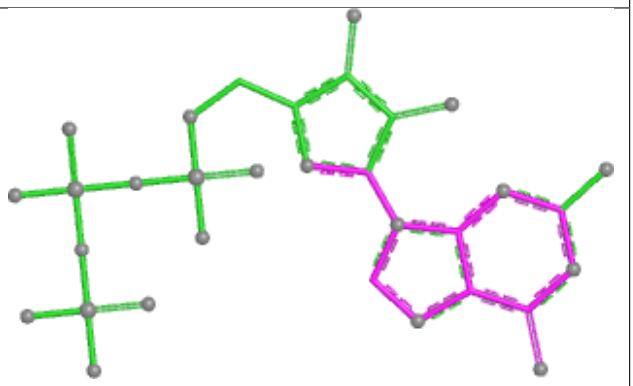
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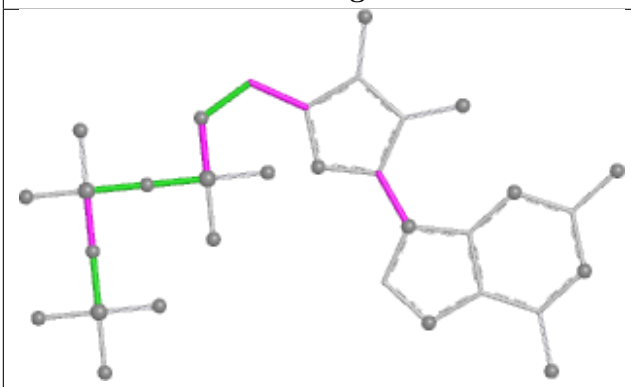
Ligand GTP TH 501



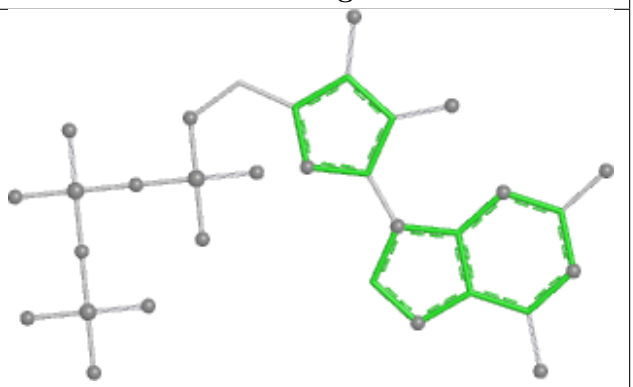
Bond lengths



Bond angles

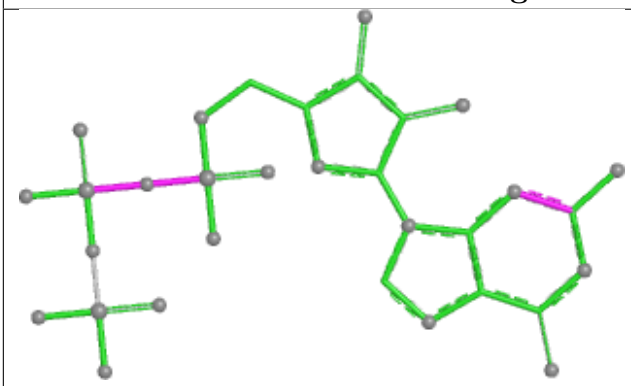


Torsions

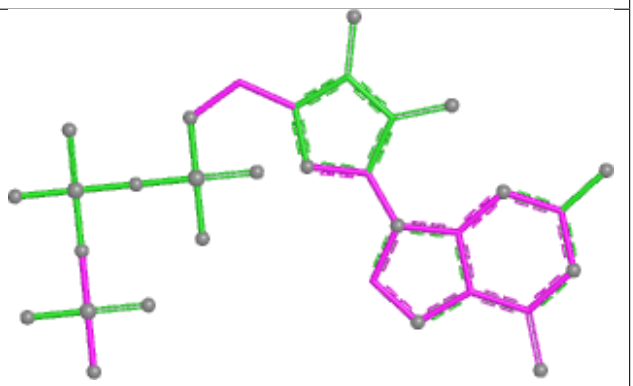


Rings

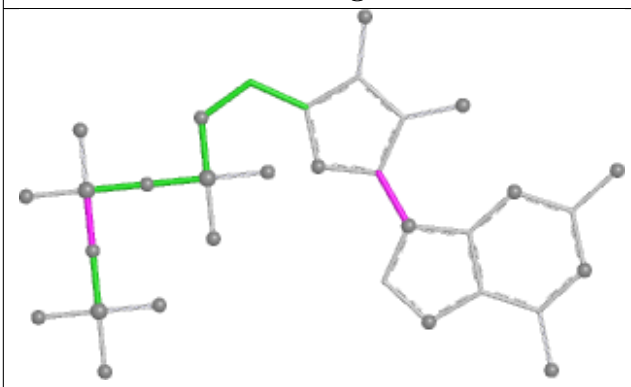
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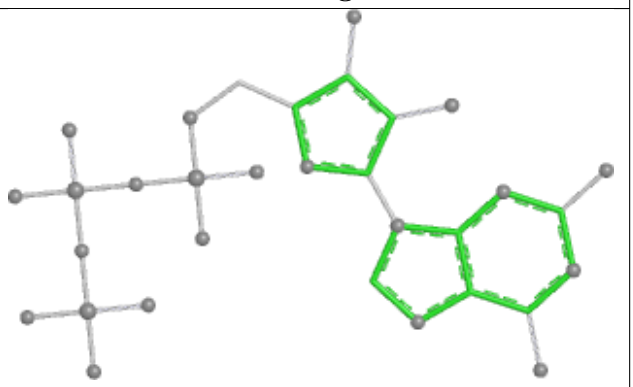
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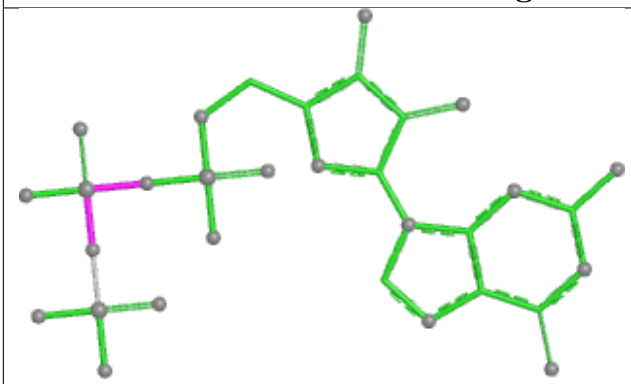


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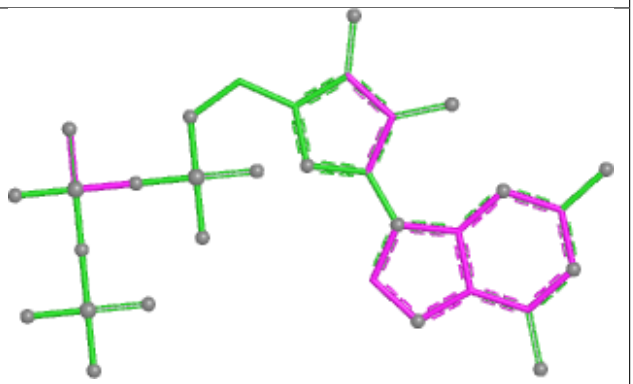


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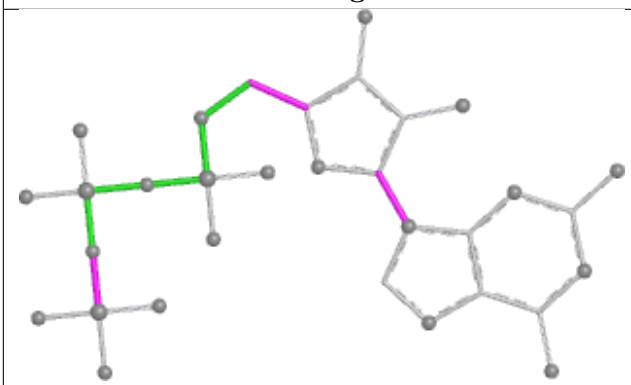
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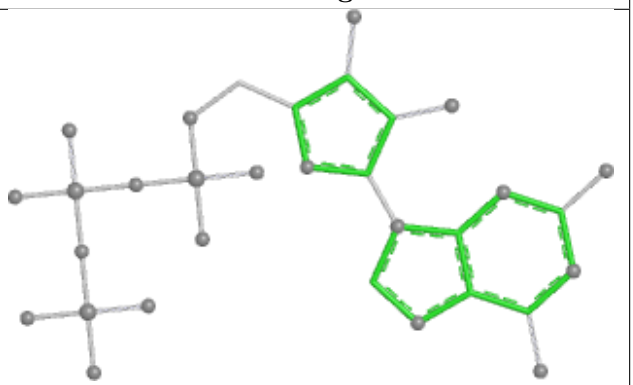
Bond lengths



Bond angles

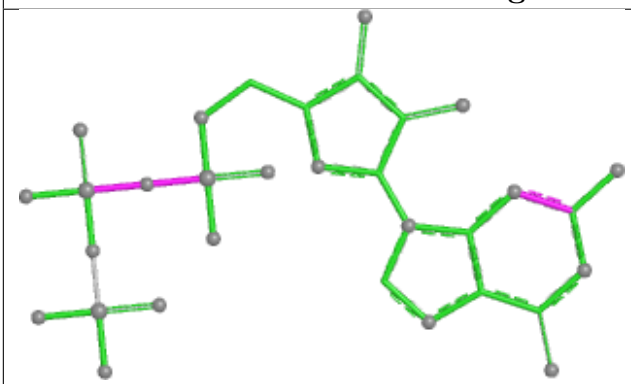


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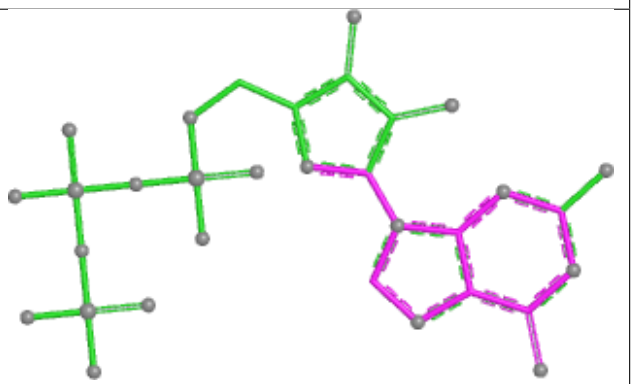


Rings

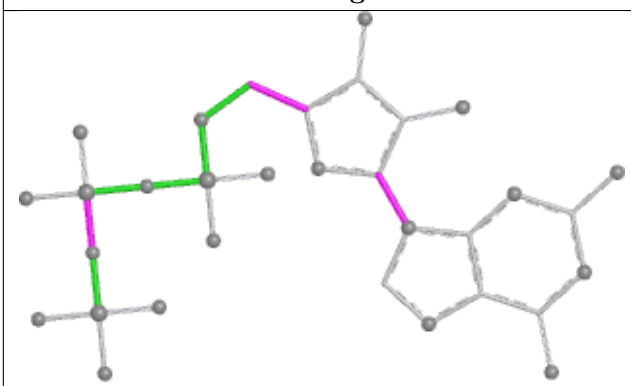
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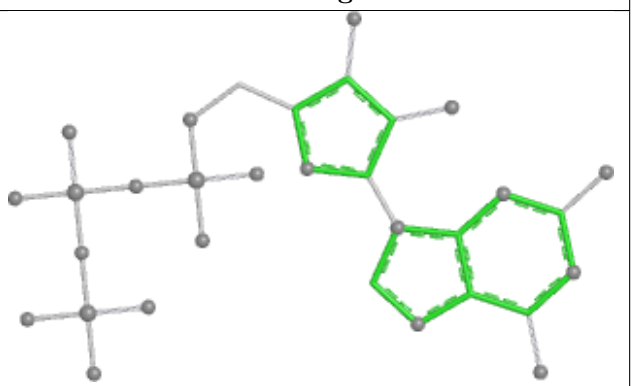
Bond lengths



Bond angles

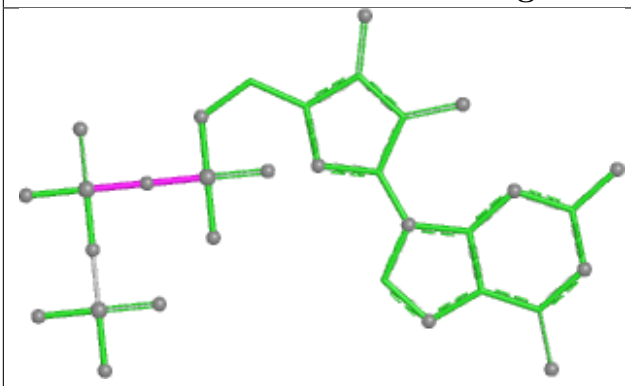


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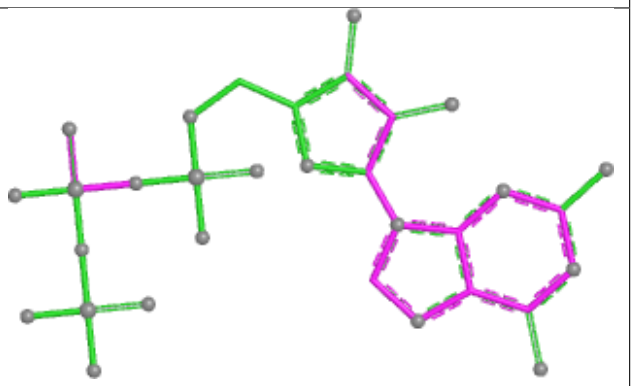


Rings

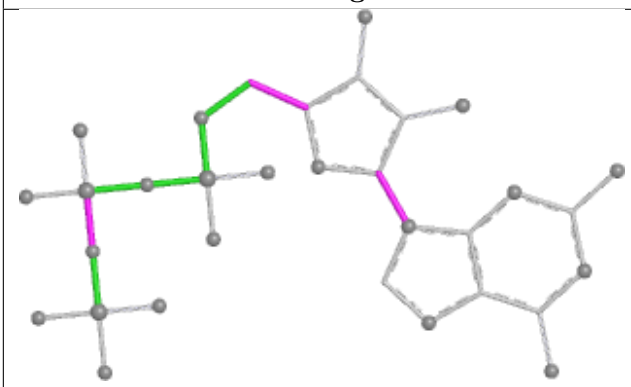
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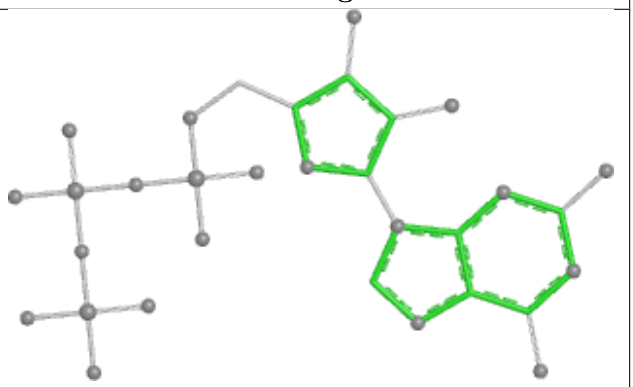
Bond lengths



Bond angles

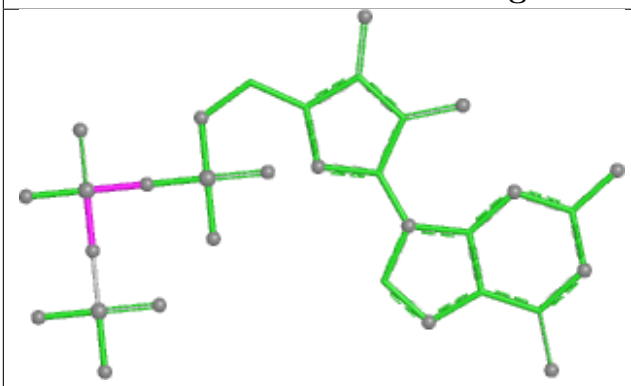


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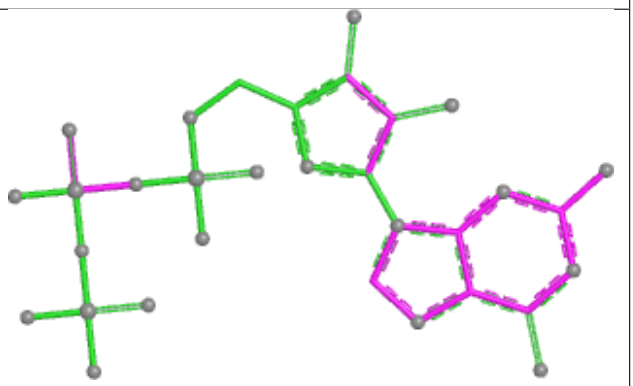


Rings

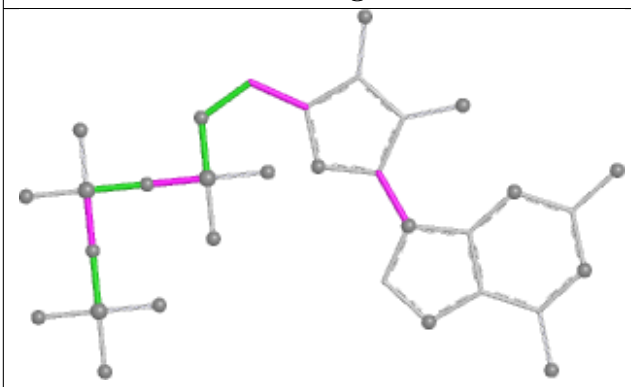
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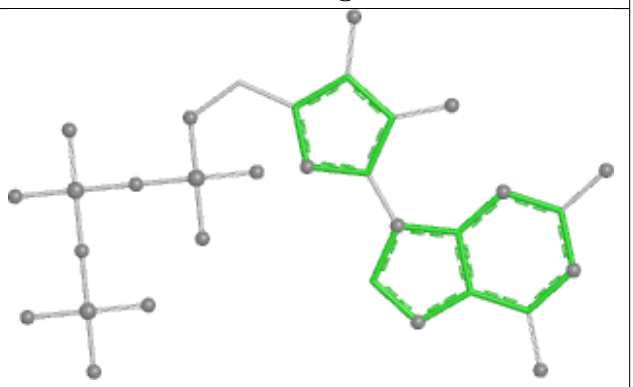
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Bond angles

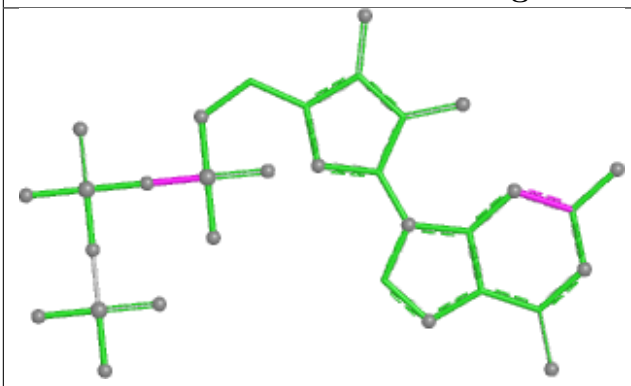


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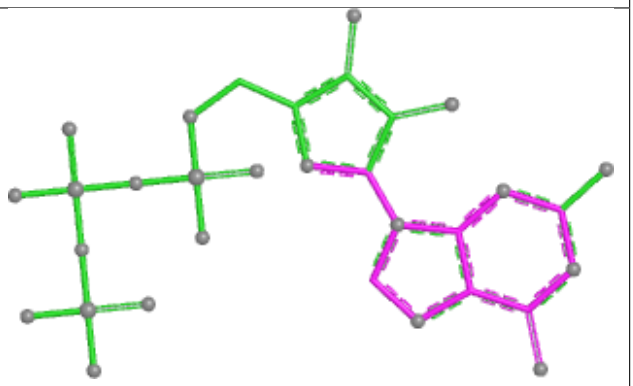


Rings

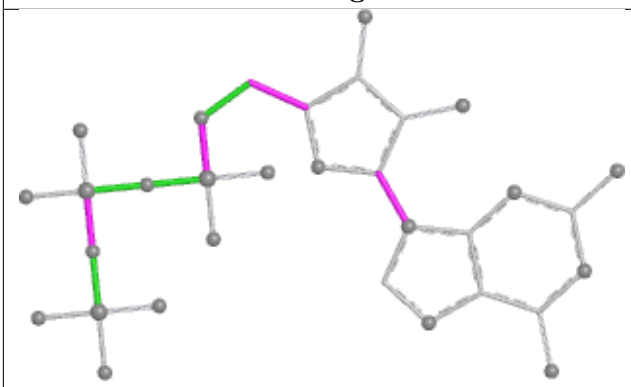
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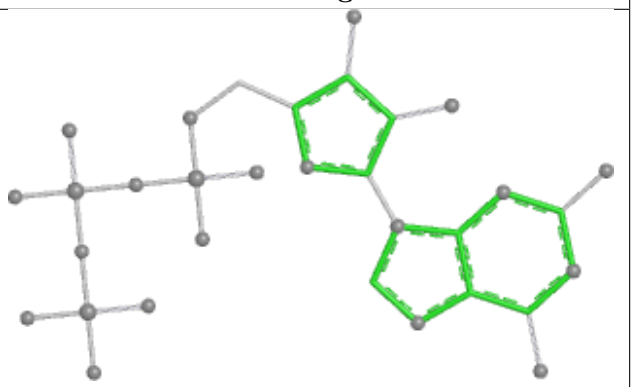
Bond lengths



Bond angles

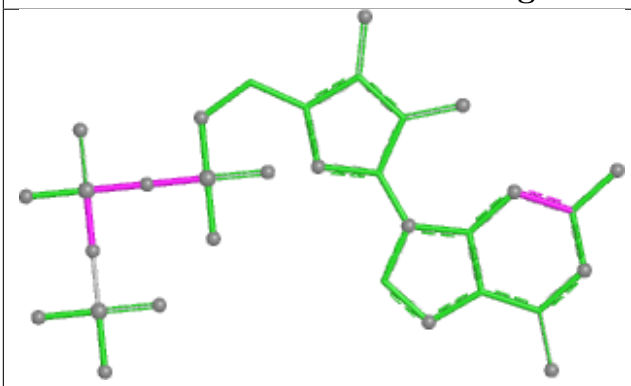


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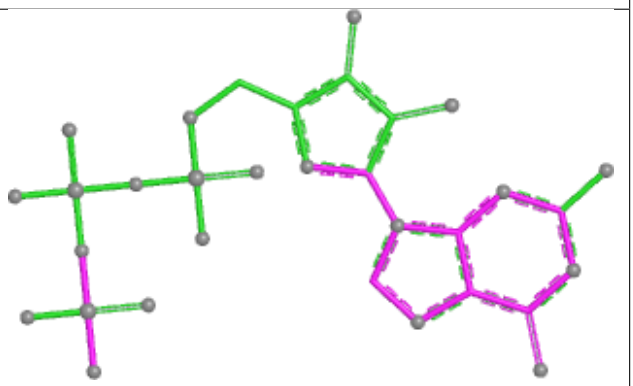


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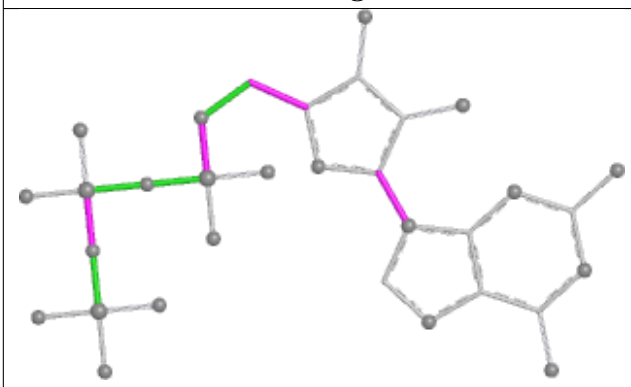
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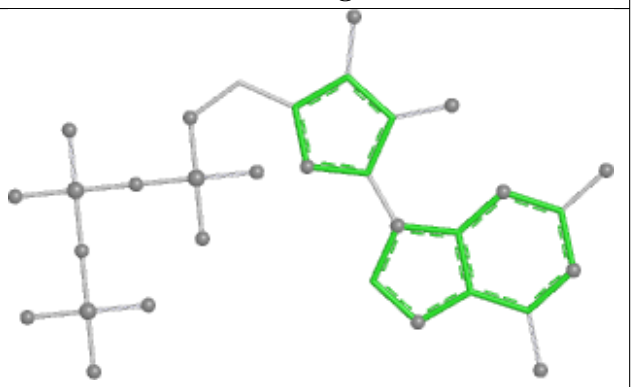
Bond lengths



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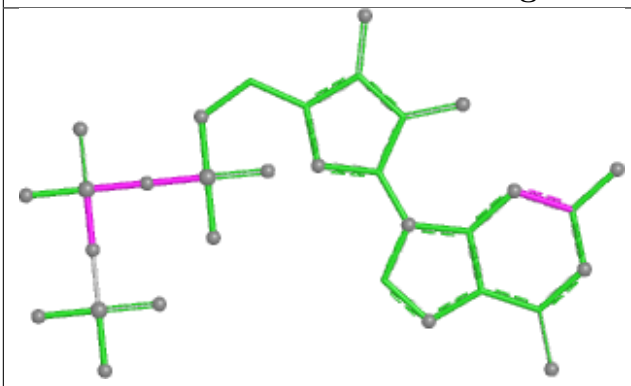


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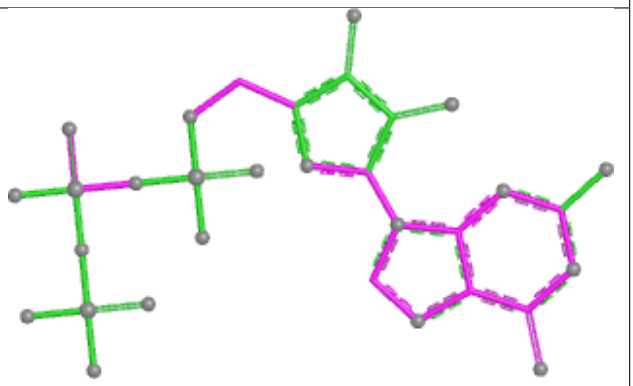


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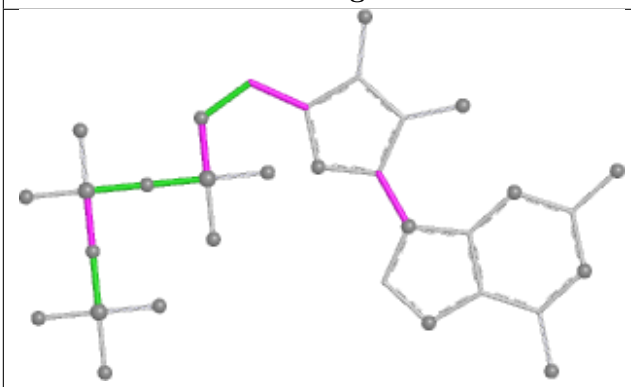
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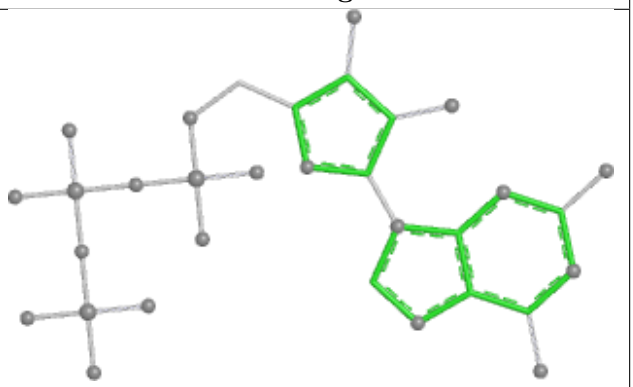
Bond lengths



Bond angles

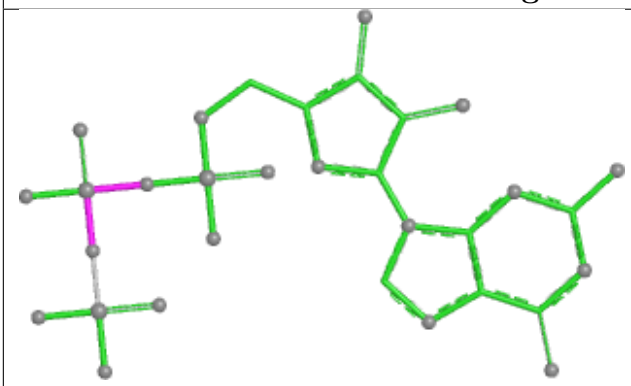


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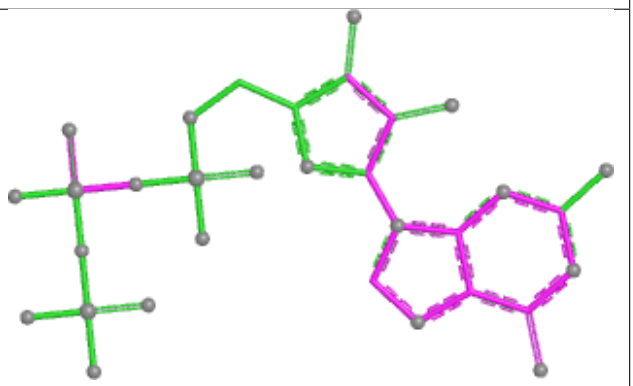


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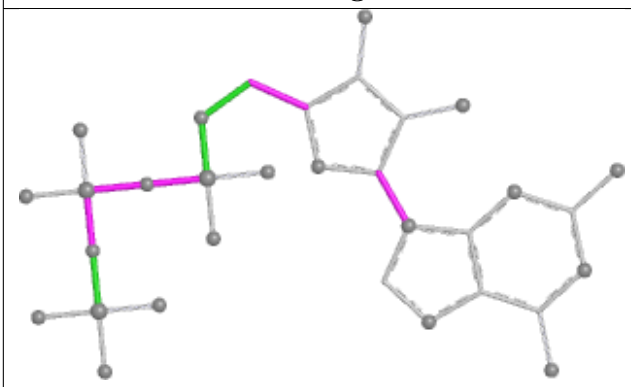
Ligand GTP II 501



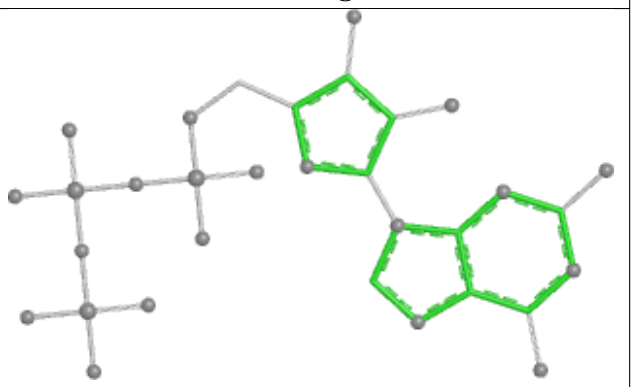
Bond lengths



Bond angles

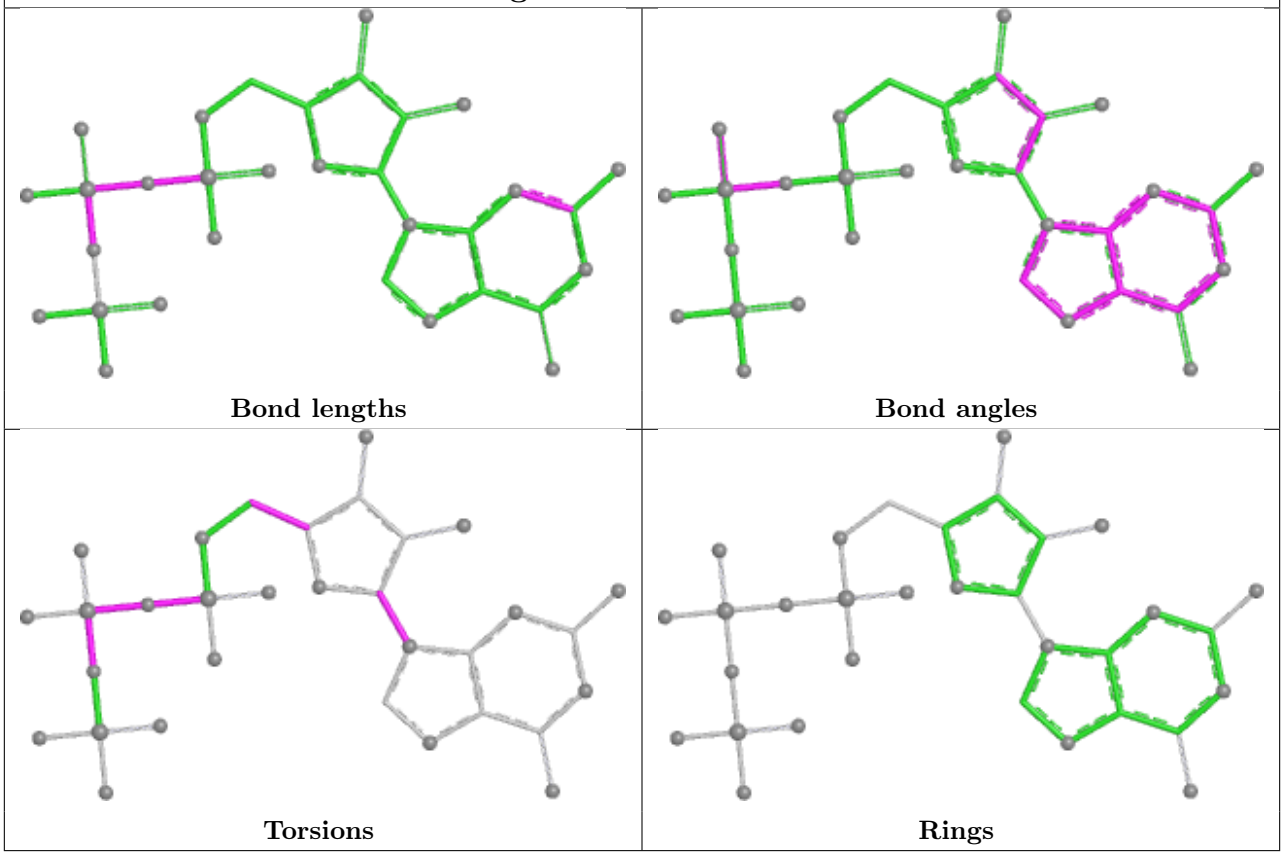


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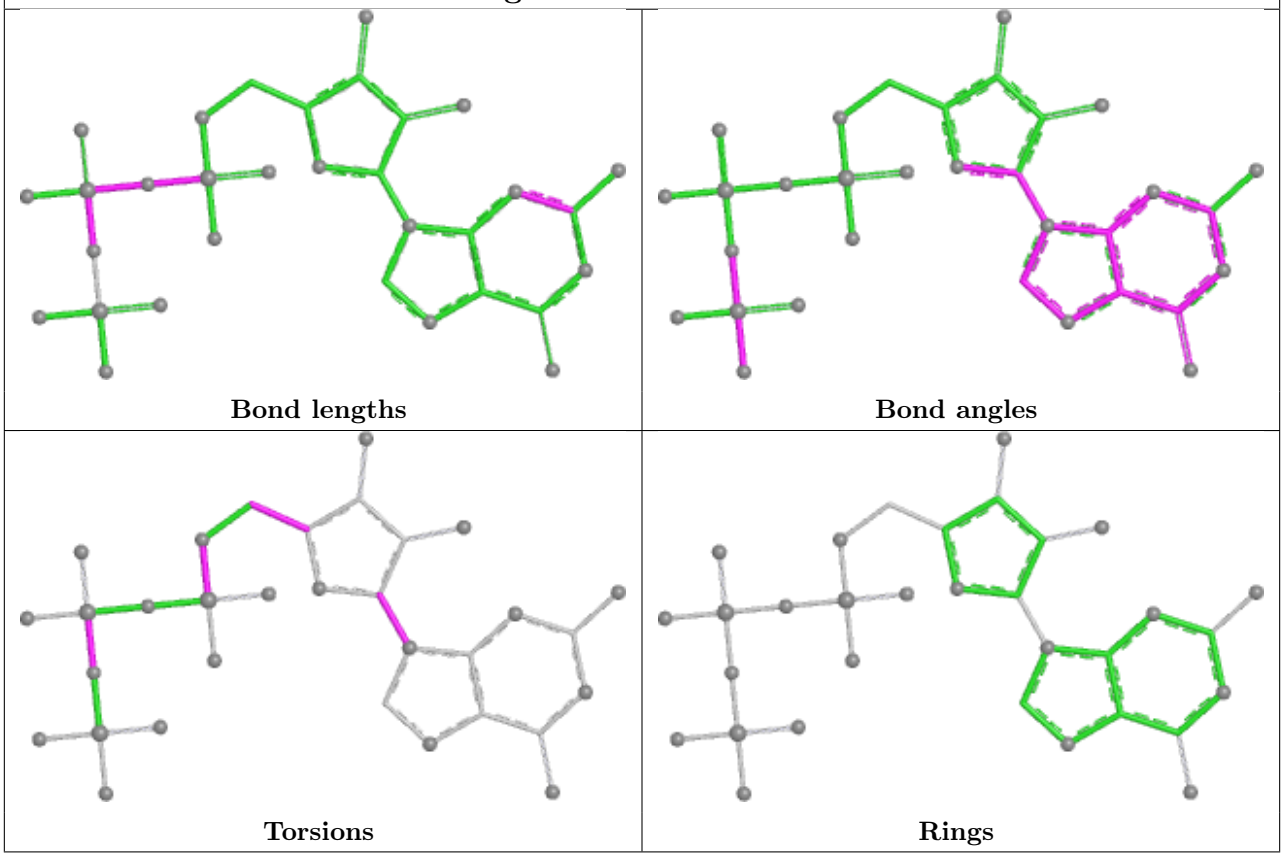


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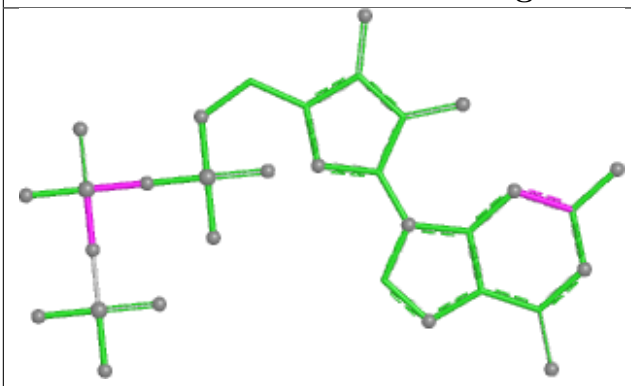
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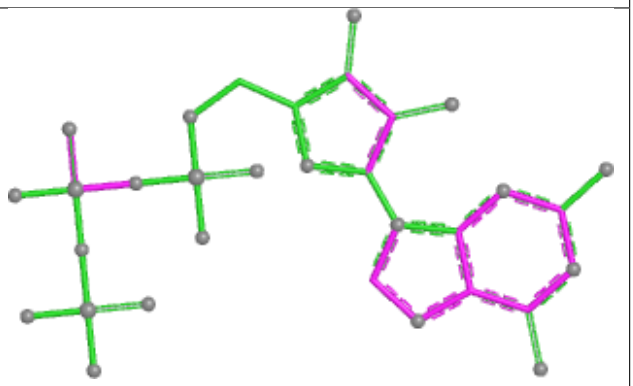
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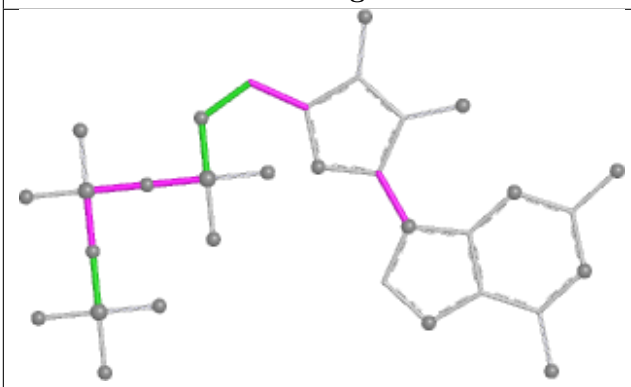
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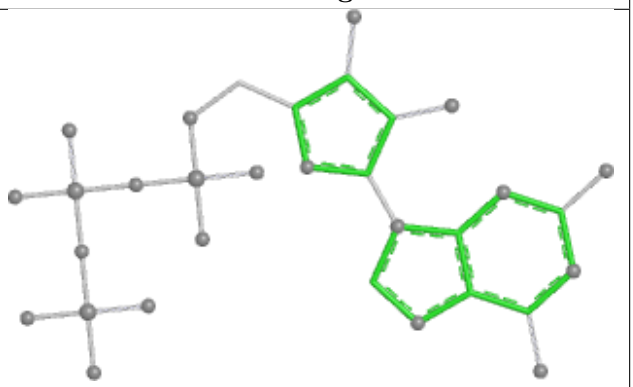
Bond lengths



Bond angles

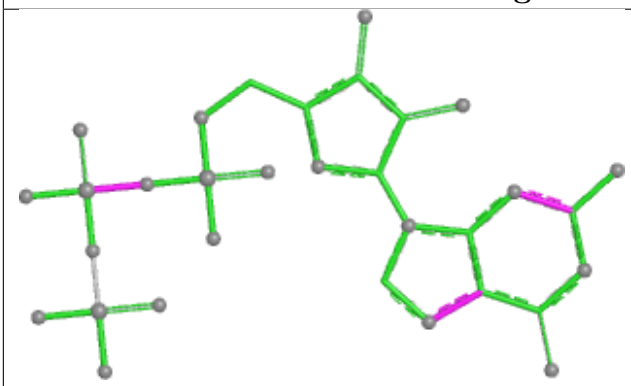


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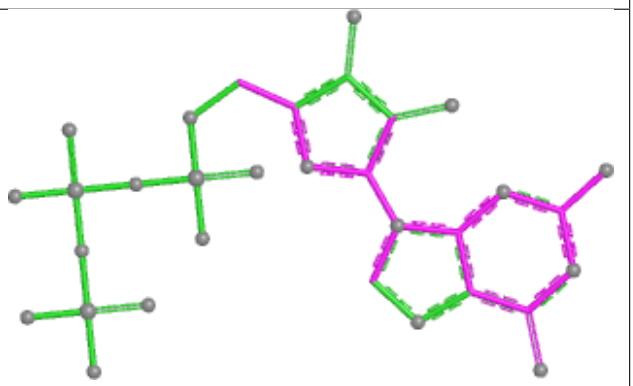


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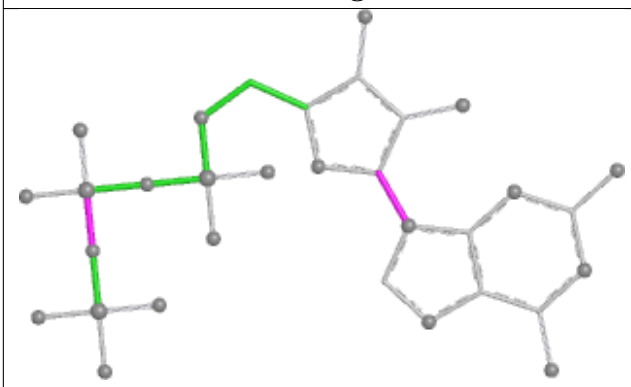
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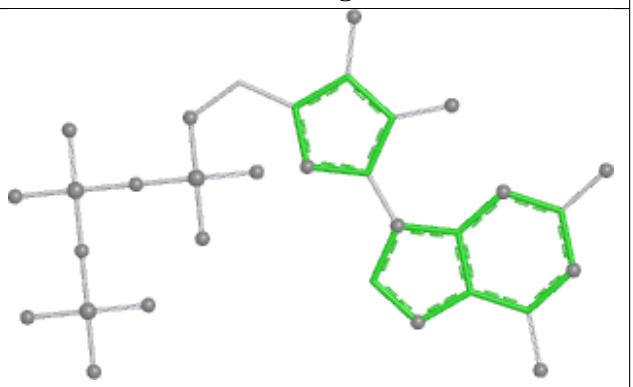
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Bond angles

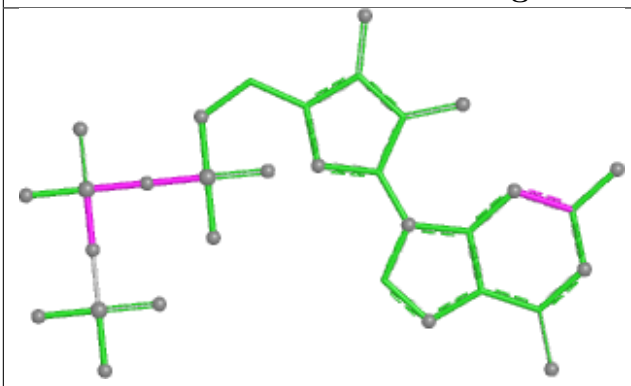


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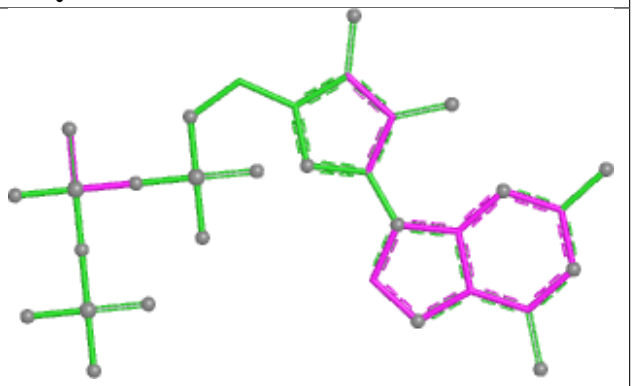


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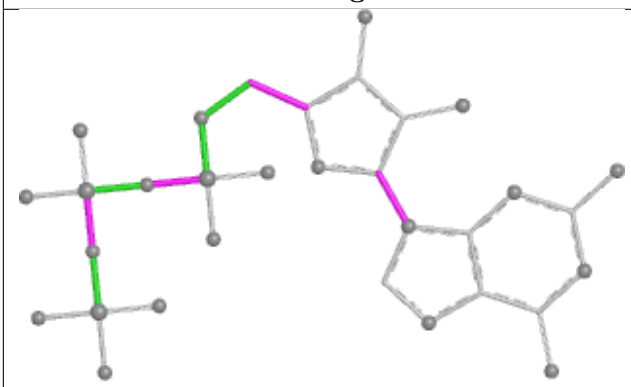
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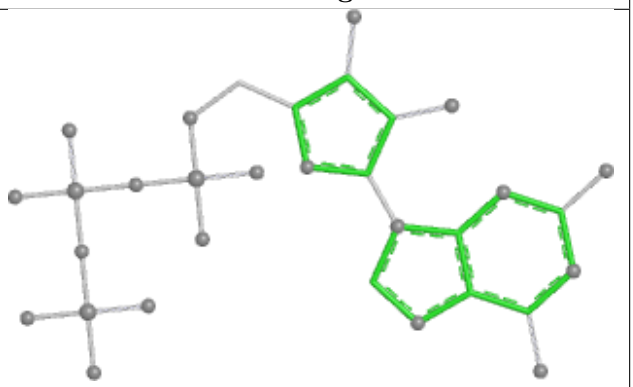
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Bond angles

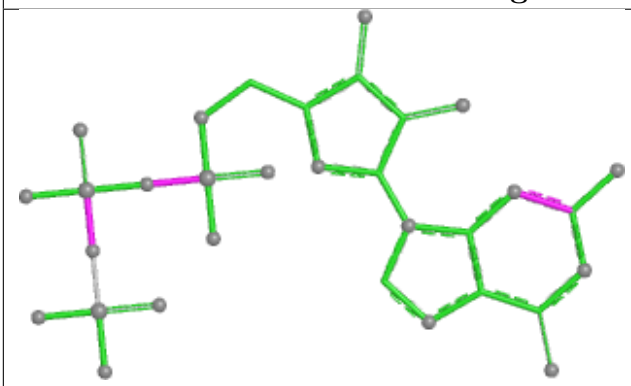


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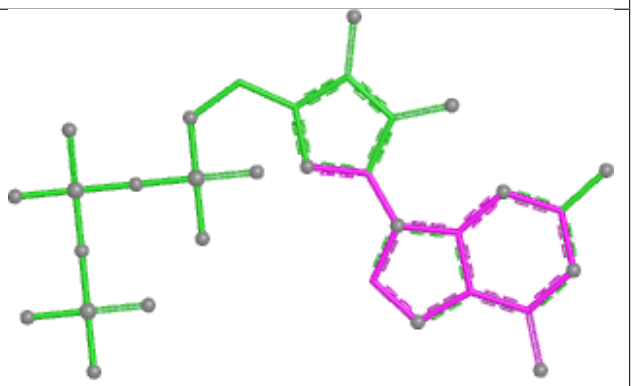


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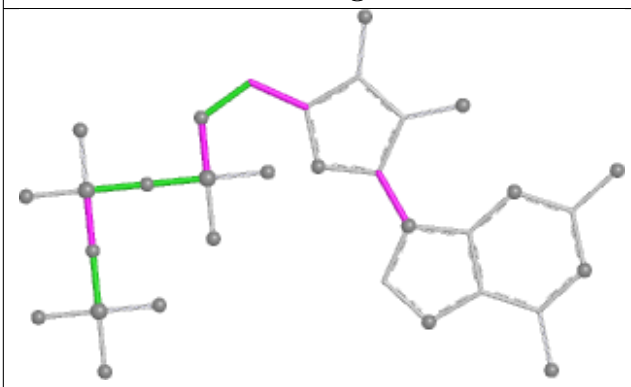
Ligand GTP TB 501



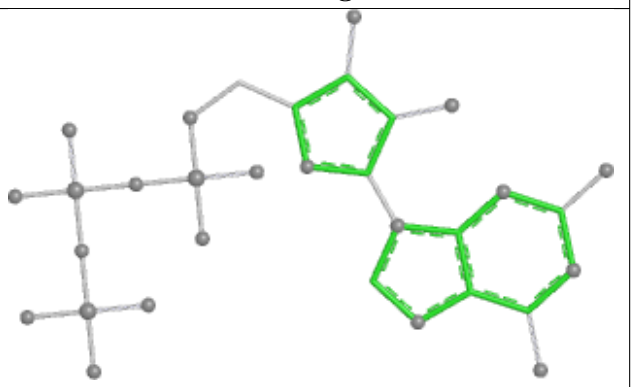
Bond lengths



Bond angles

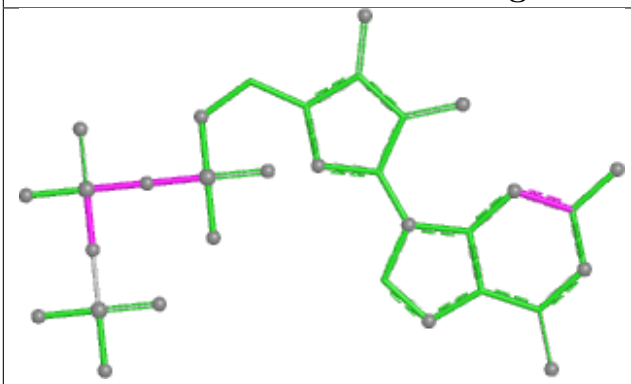


Torsions

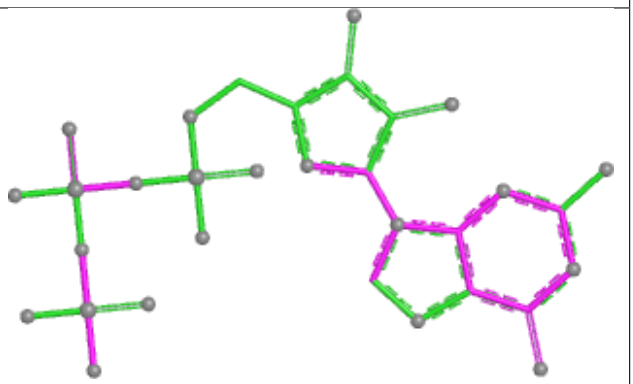


Rings

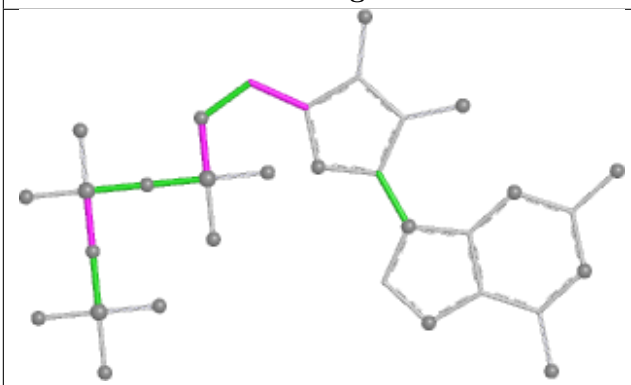
Ligand GTP KB 501



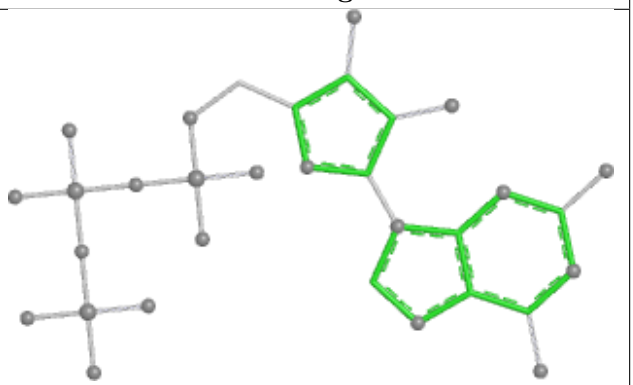
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Bond angles

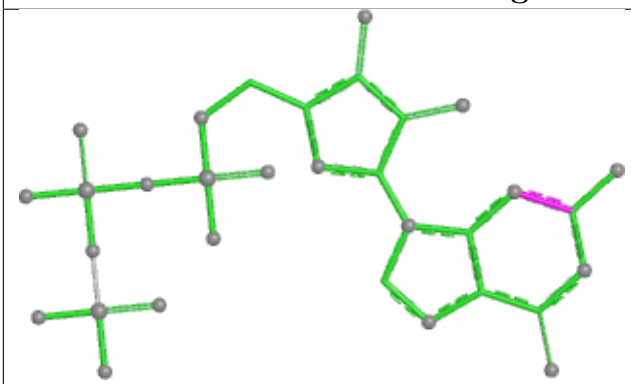


Torsions

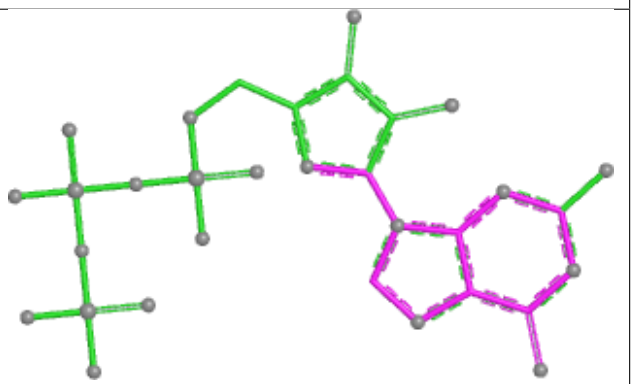


Rings

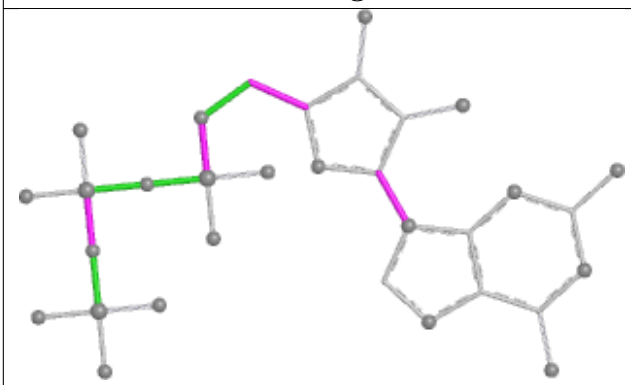
Ligand GTP RF 501



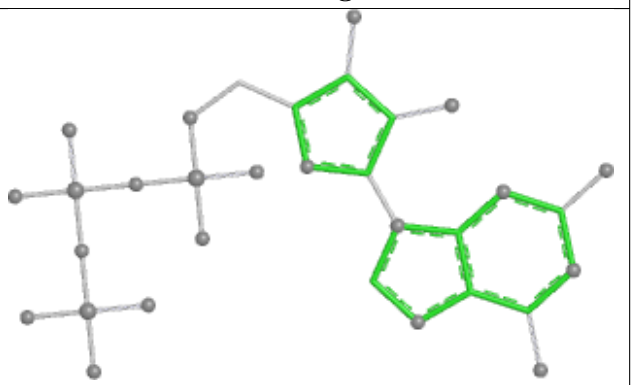
Bond lengths



Bond angles

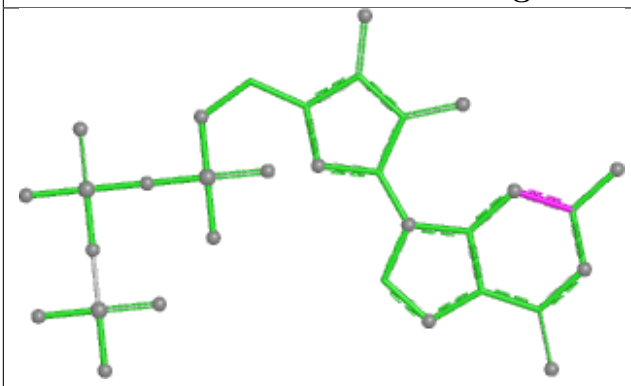


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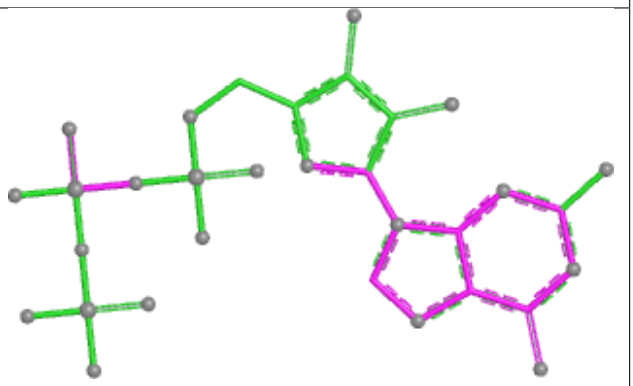


Rings

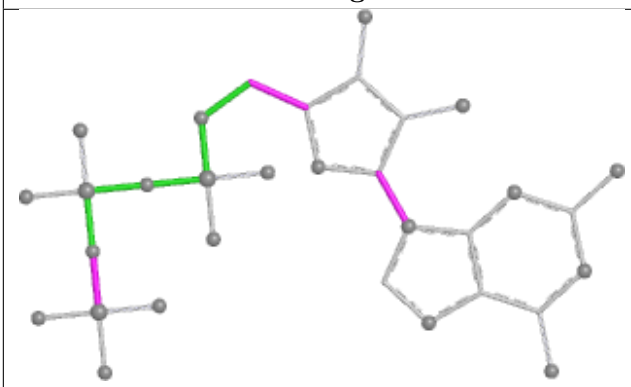
Ligand GTP RJ 501



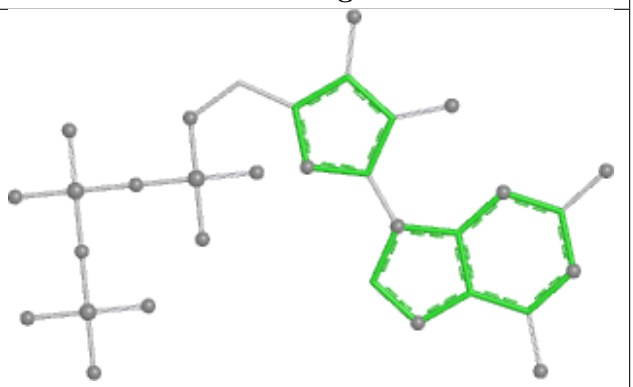
Bond lengths



Bond angles

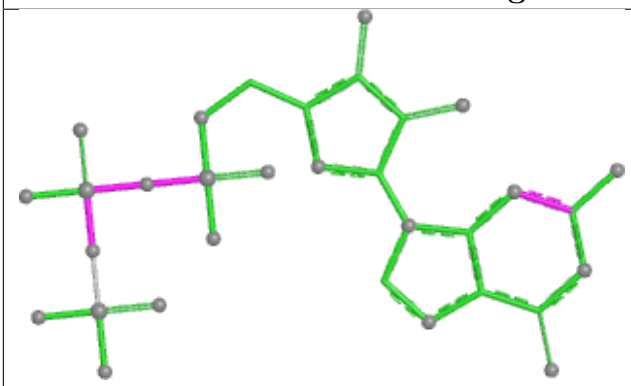


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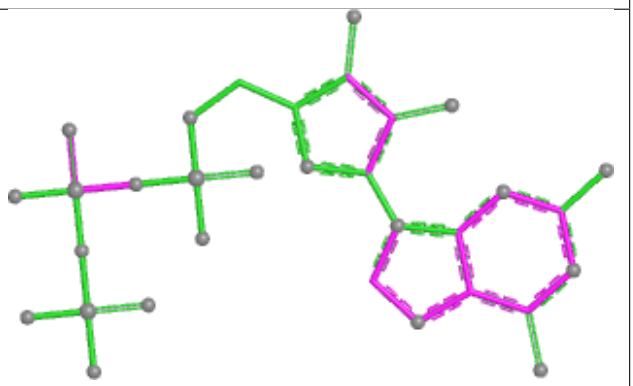


Rings

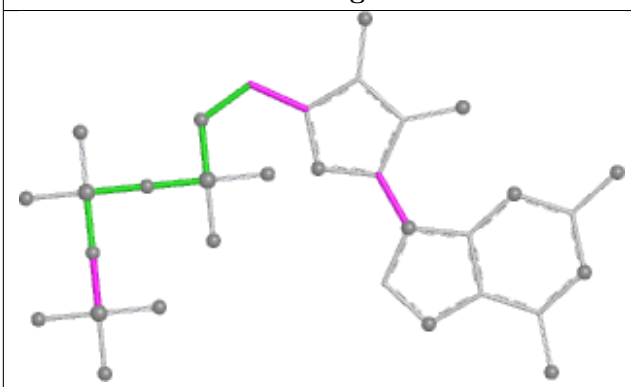
Ligand GTP NA 501



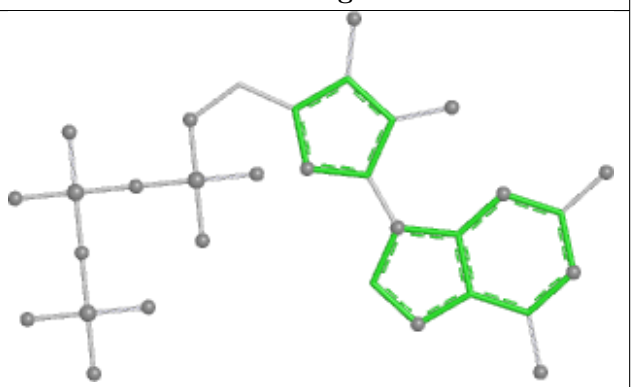
Bond lengths



Bond angles

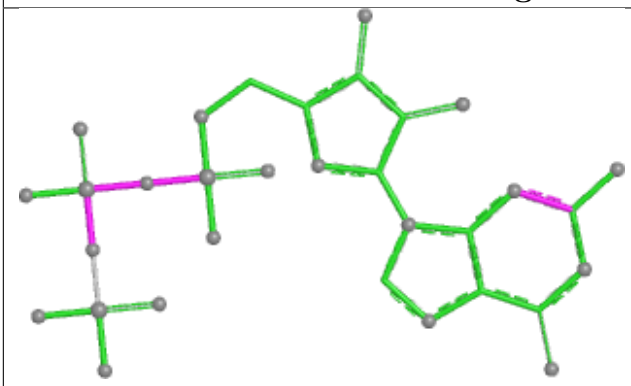


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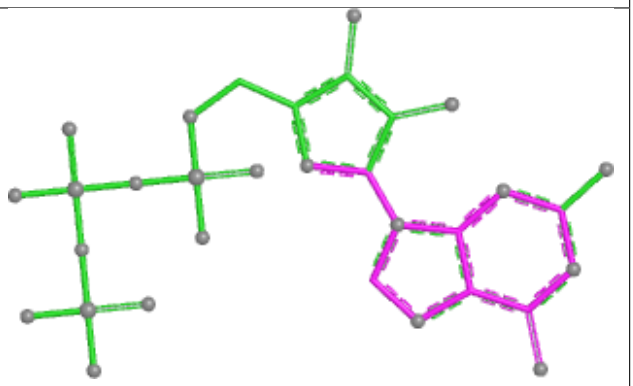


Rings

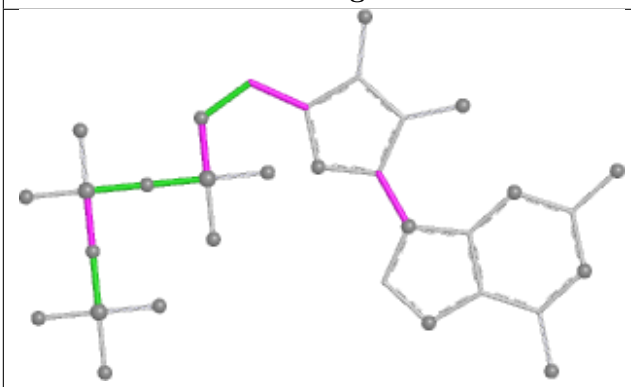
Ligand GTP EJ 501



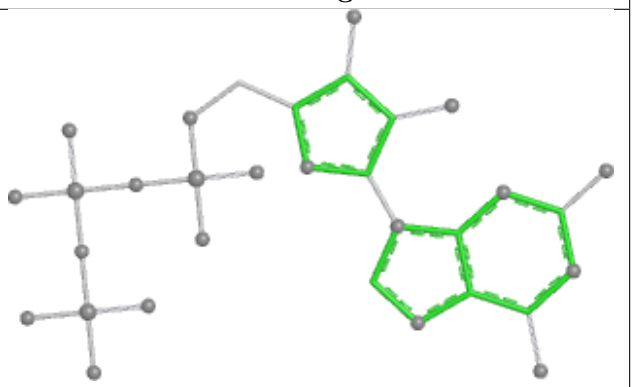
Bond lengths



Bond angles

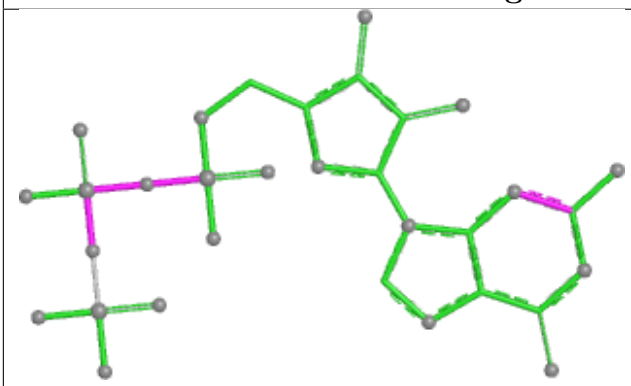


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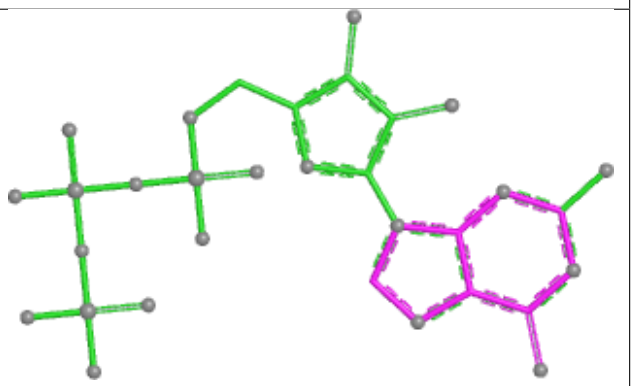


Rings

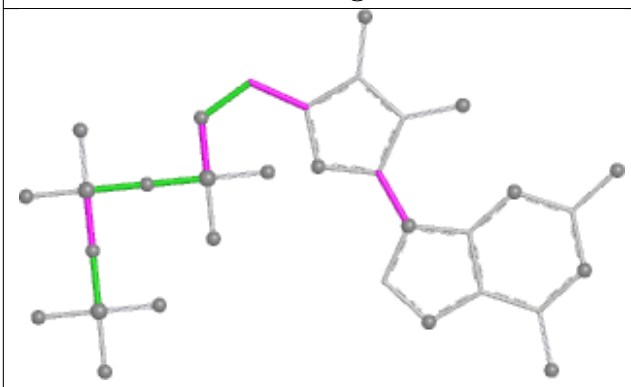
Ligand GTP MD 501



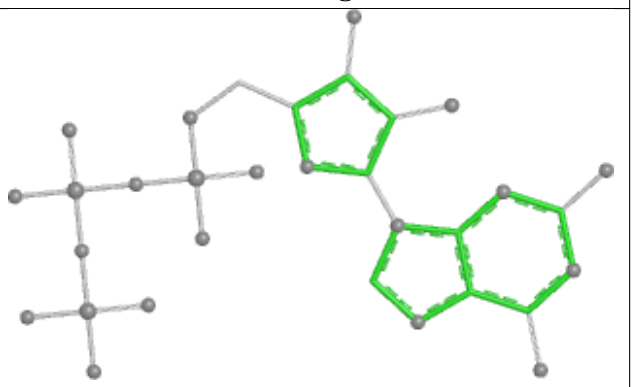
Bond lengths



Bond angles

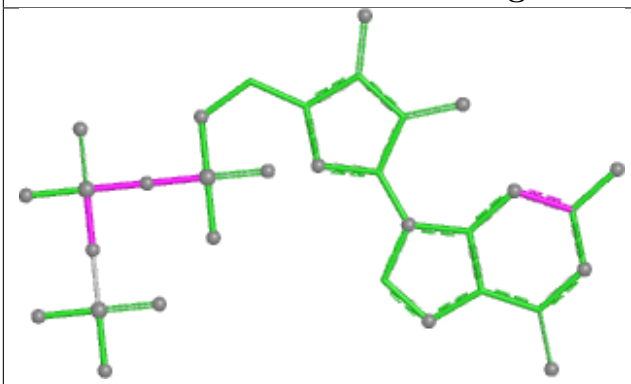


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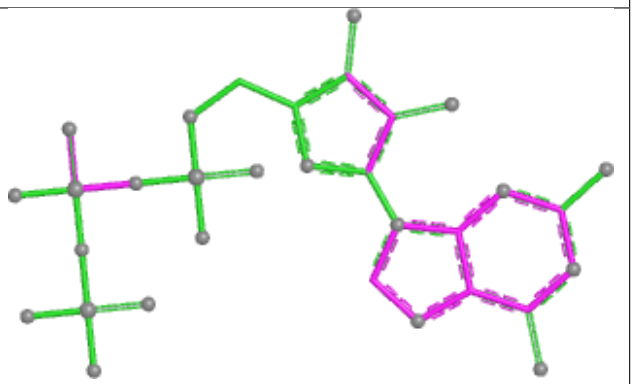


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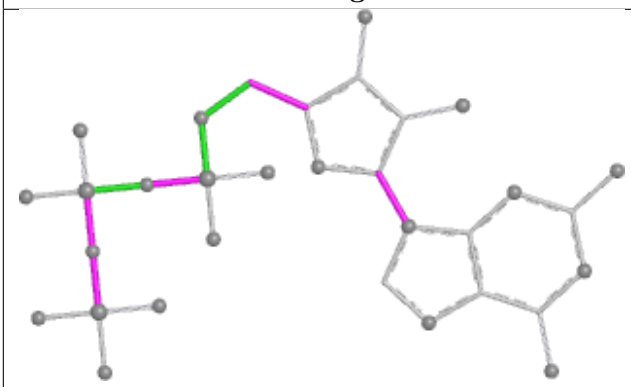
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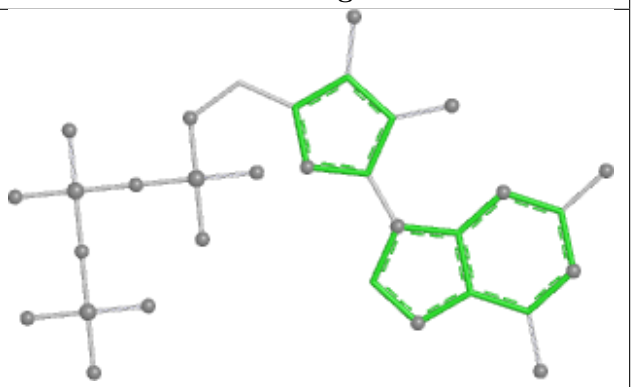
Bond lengths



Bond angles

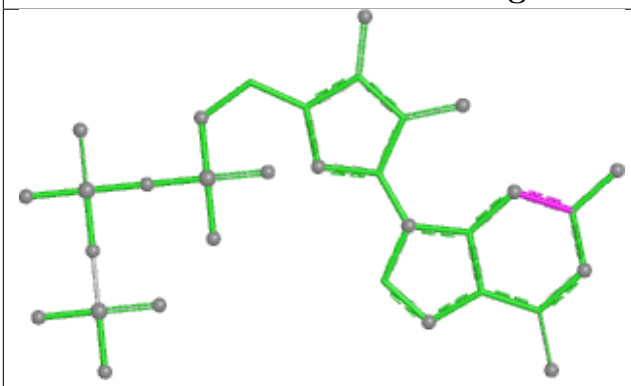


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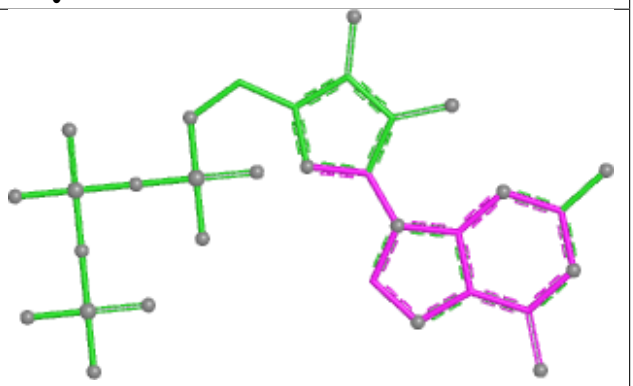


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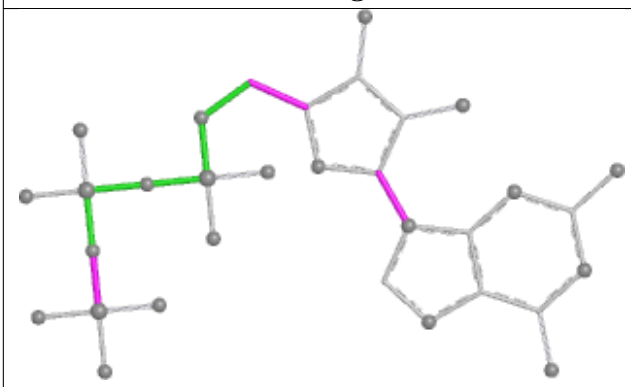
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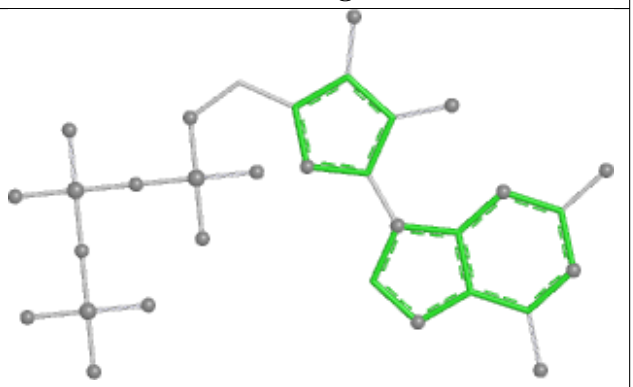
Bond lengths



Bond angles

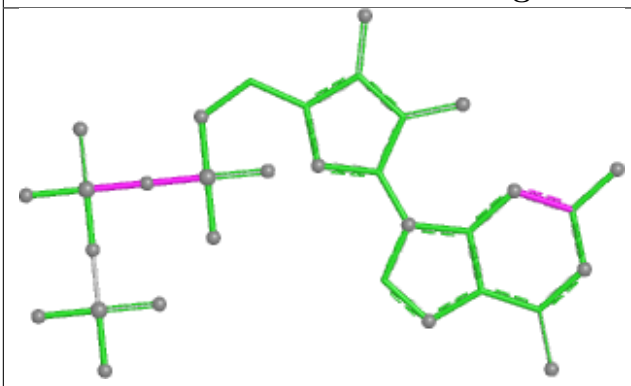


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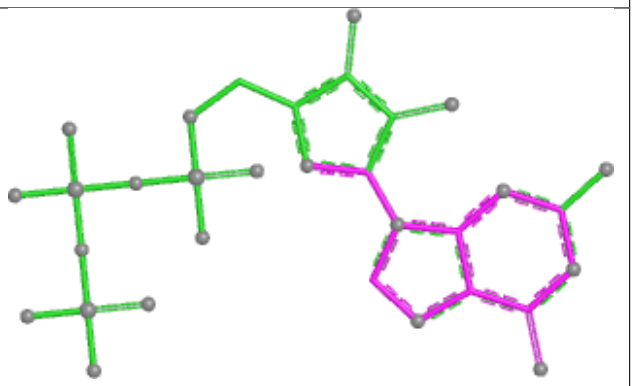


Rings

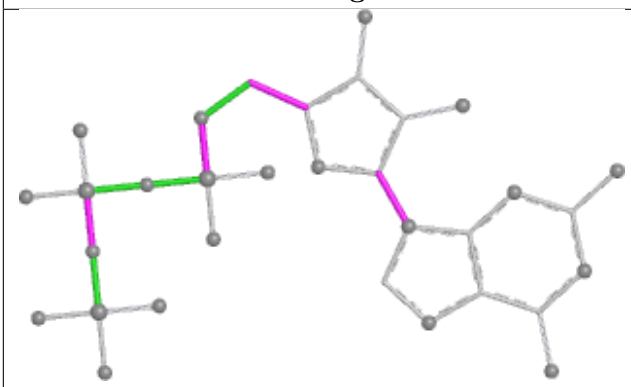
Ligand GTP VJ 501



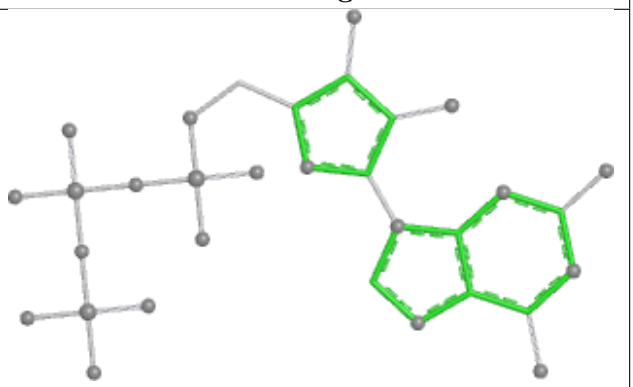
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Bond angles

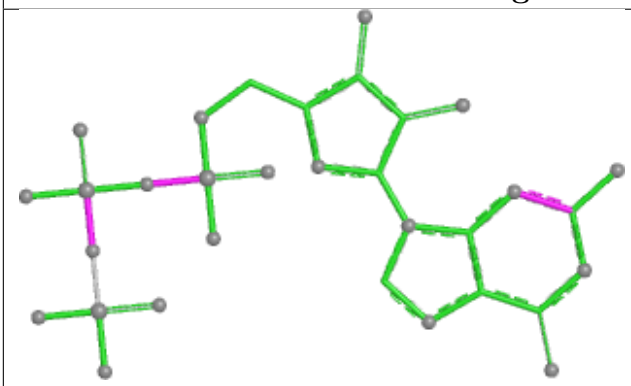


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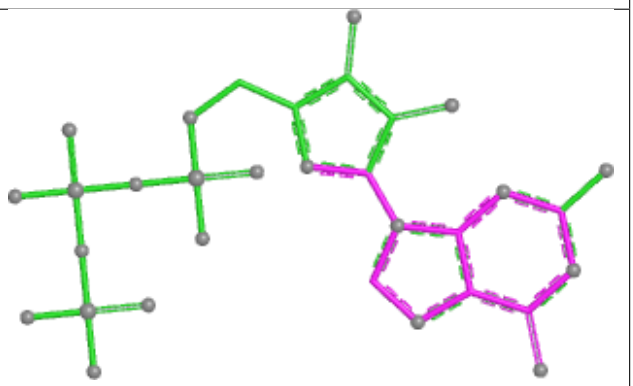


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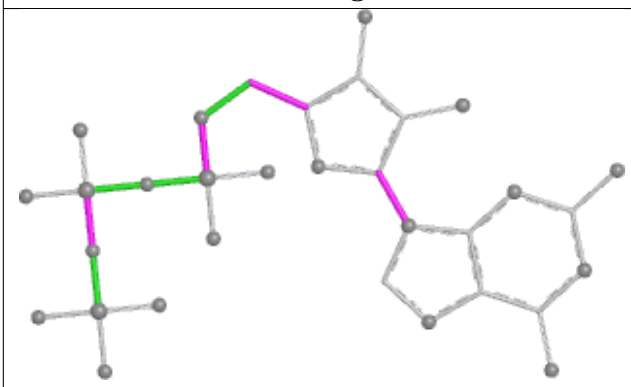
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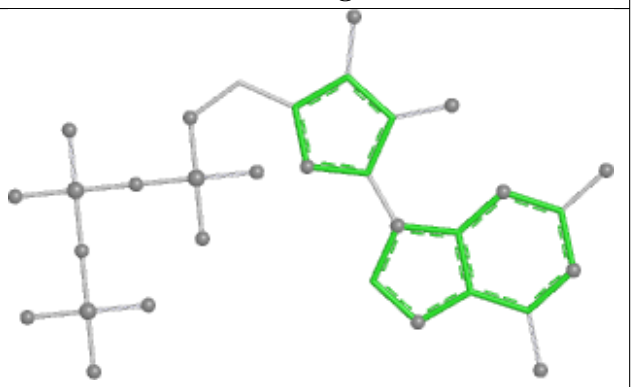
Bond lengths



Bond angles

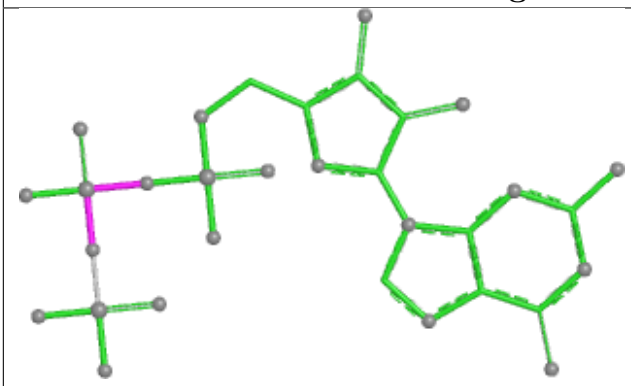


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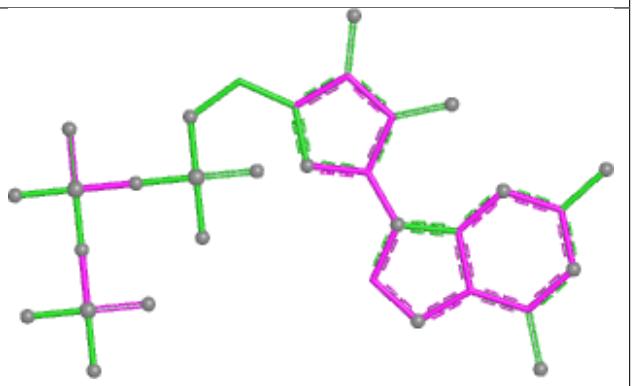


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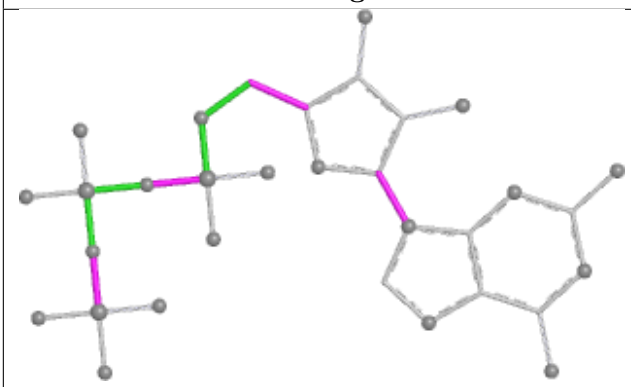
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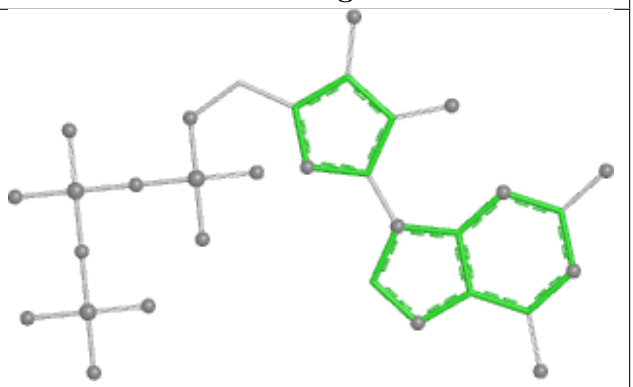
Bond lengths



Bond angles

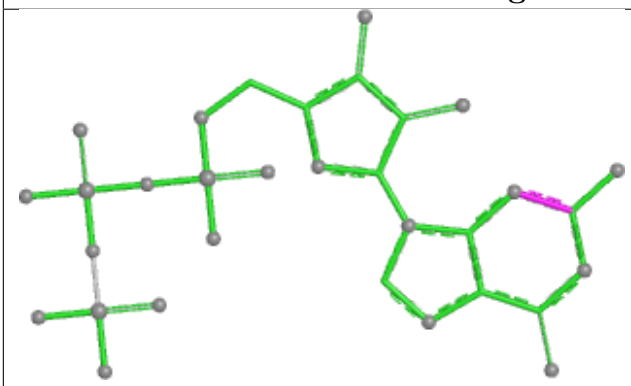


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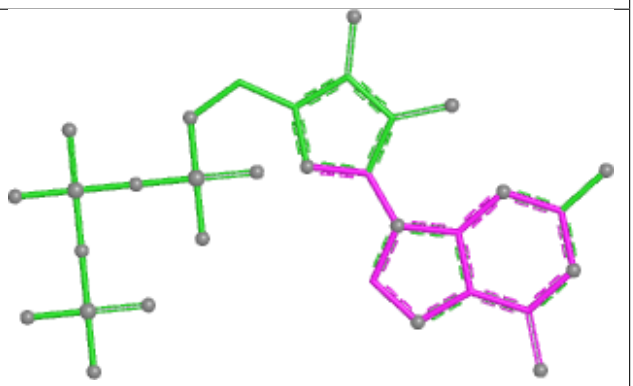


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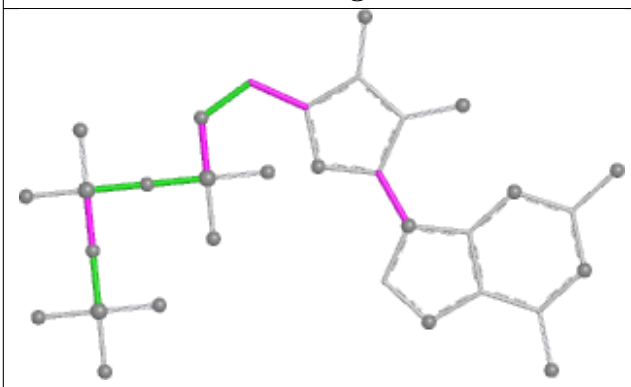
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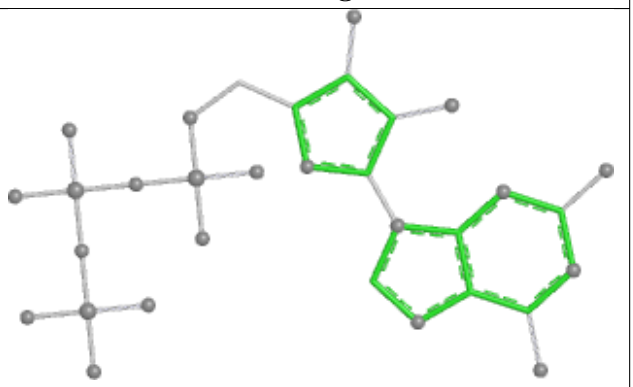
Bond lengths



Bond angles

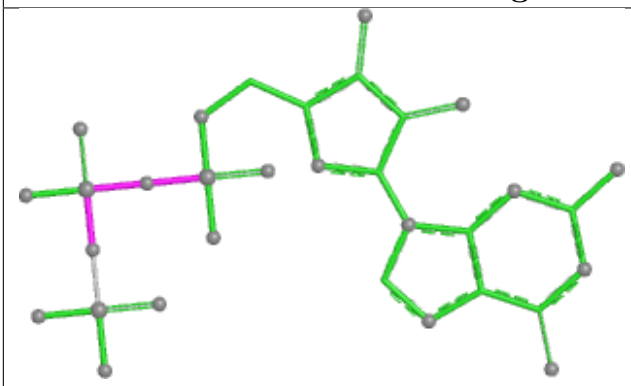


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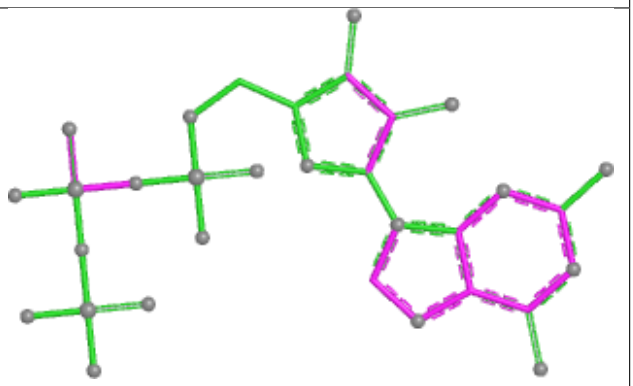


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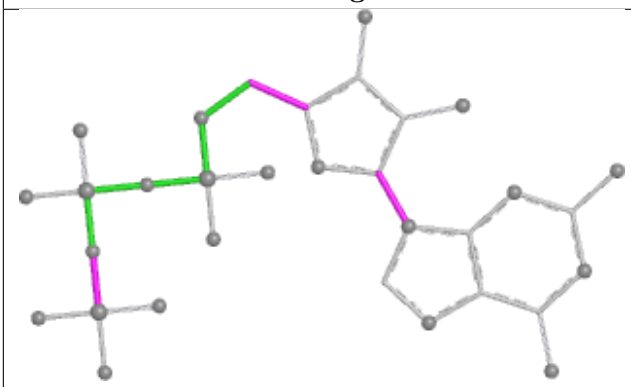
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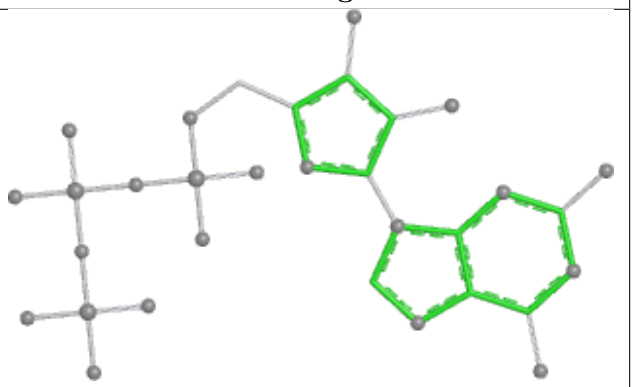
Bond lengths



Bond angles

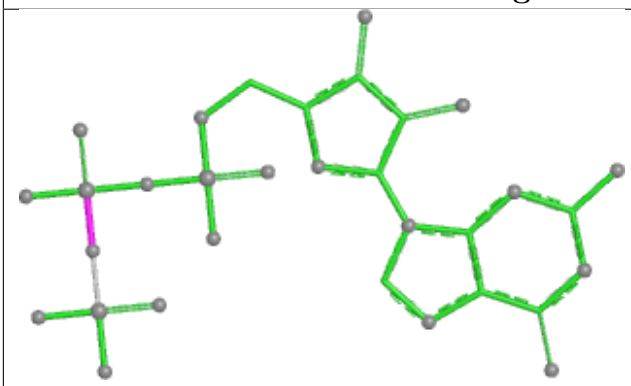


Torsions

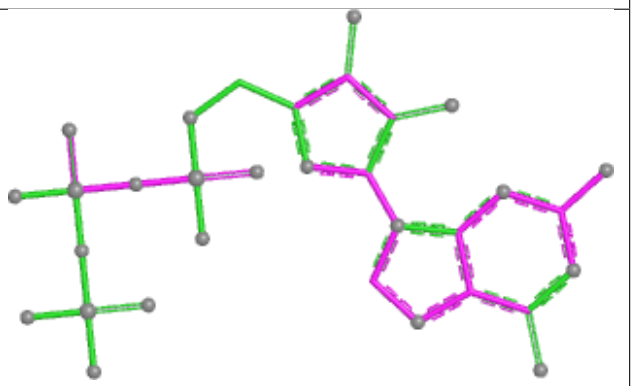


Rings

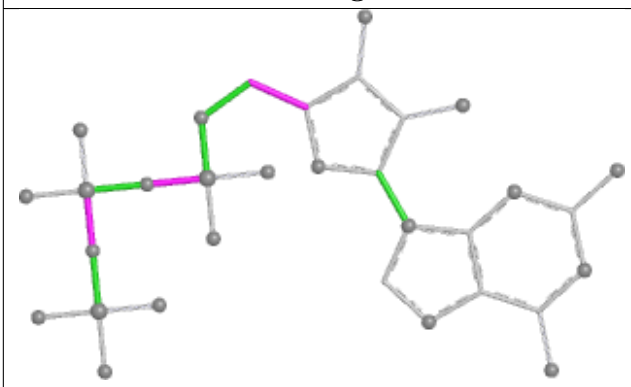
Ligand GTP FA 501



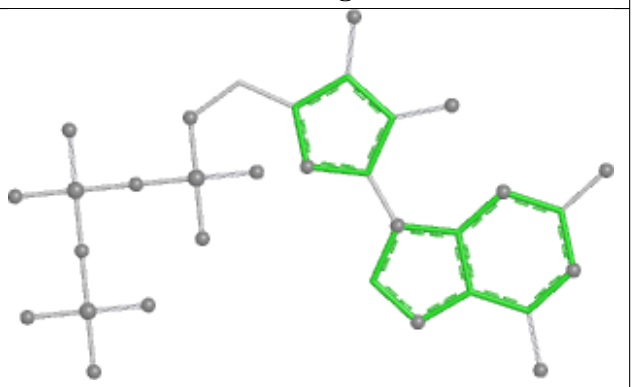
Bond lengths



Bond angles

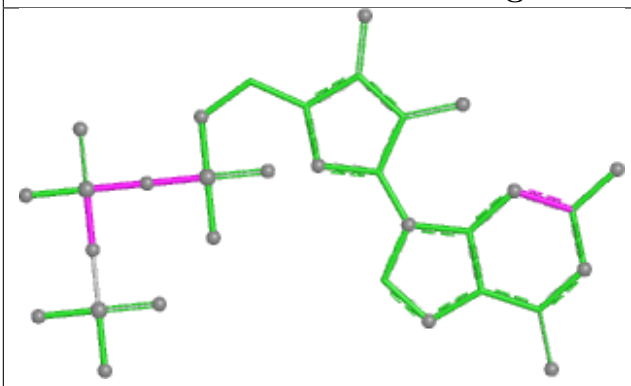


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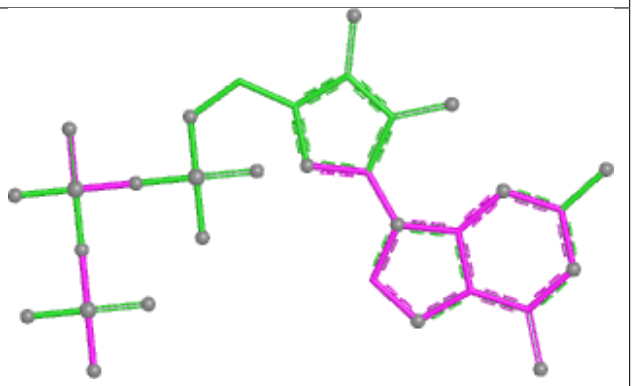


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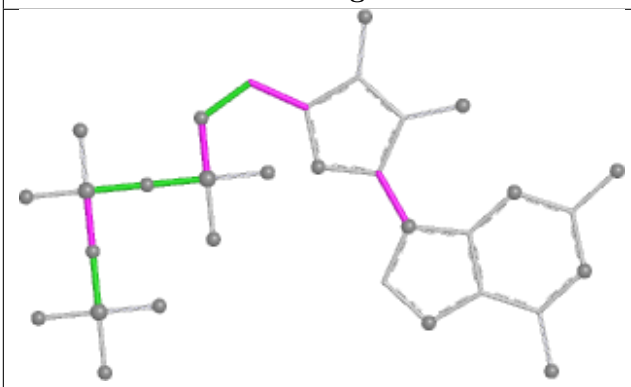
Ligand GTP WL 501



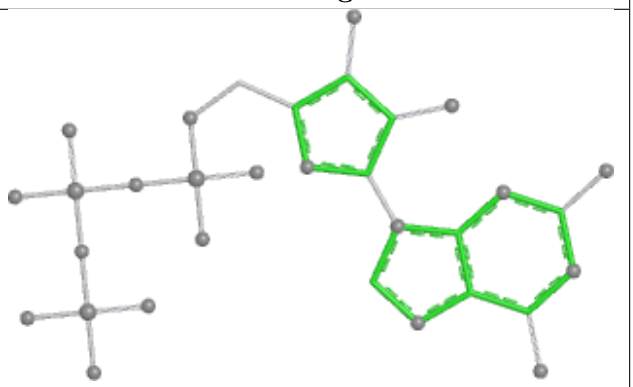
Bond lengths



Bond angles

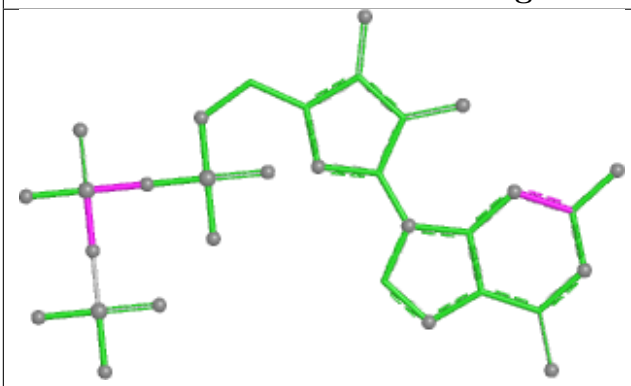


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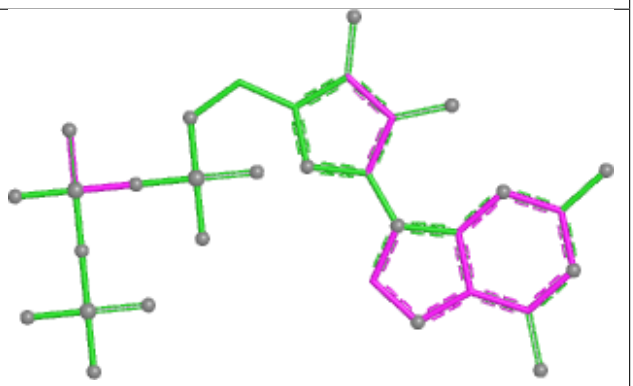


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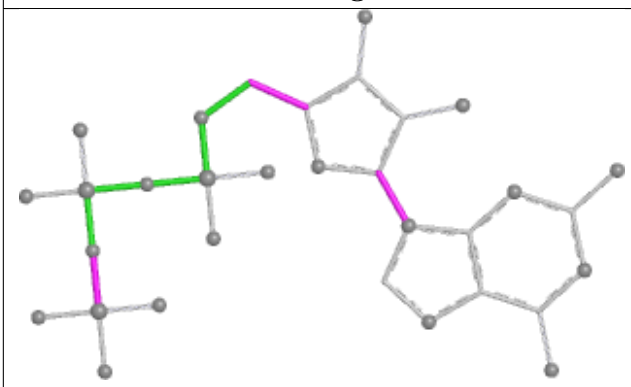
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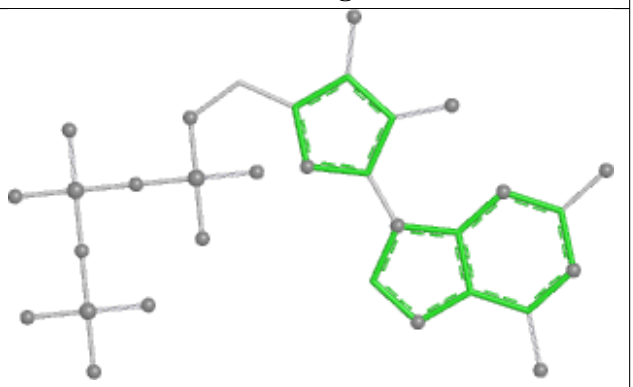
Bond lengths



Bond angles

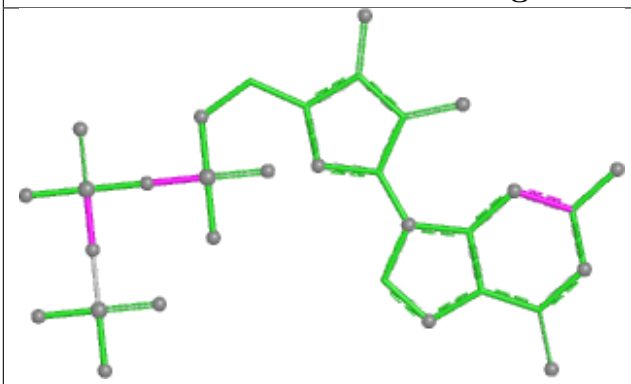


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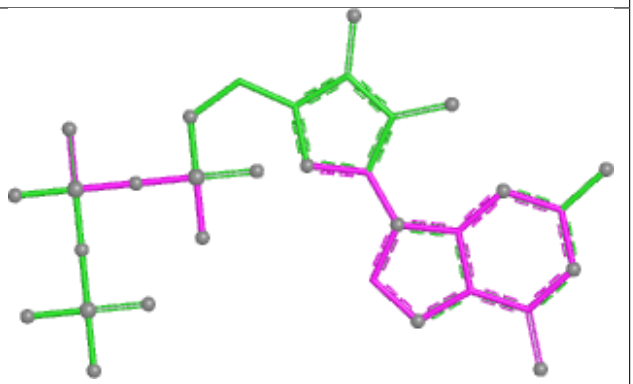


Rings

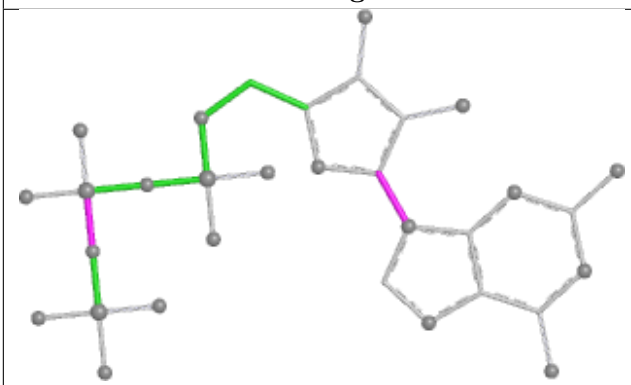
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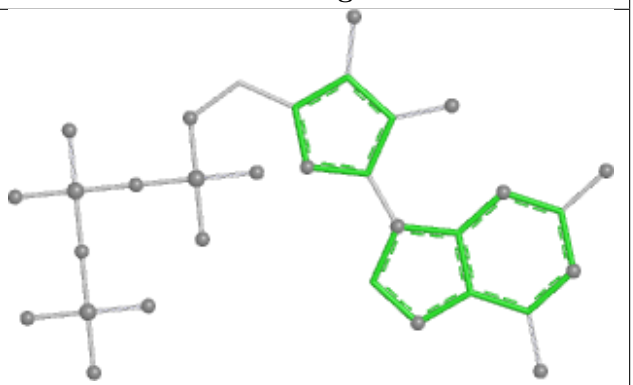
Bond lengths



Bond angles

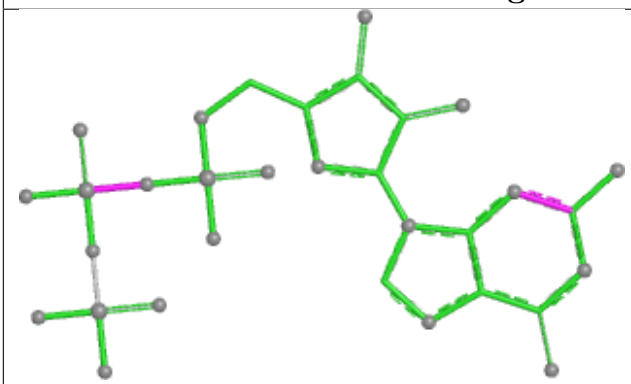


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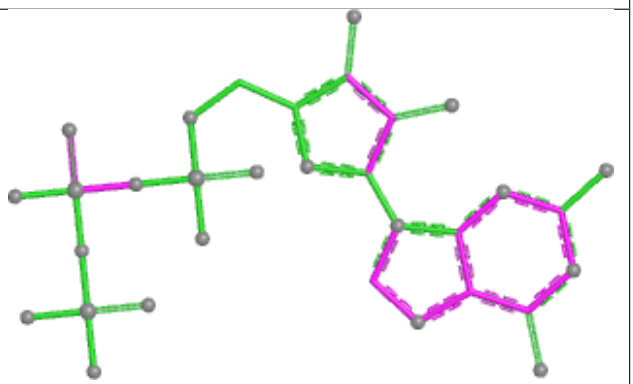


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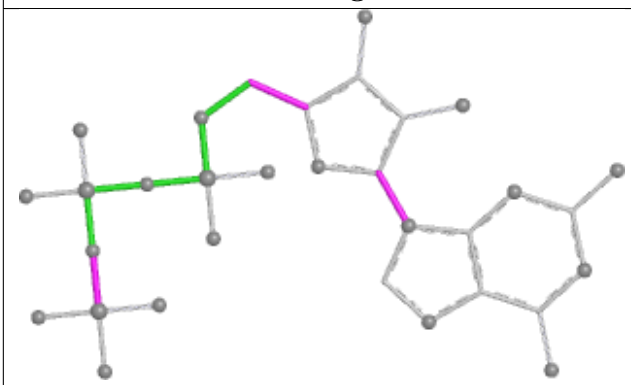
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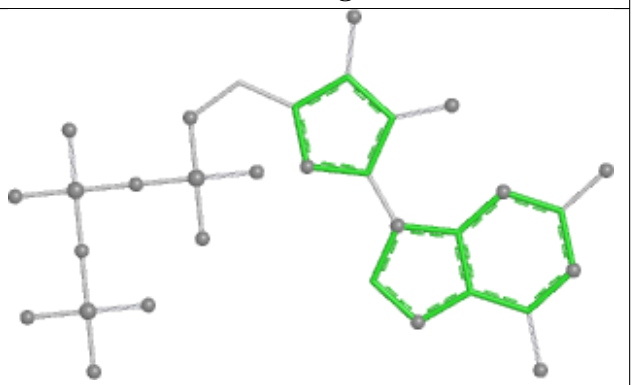
Bond lengths



Bond angles

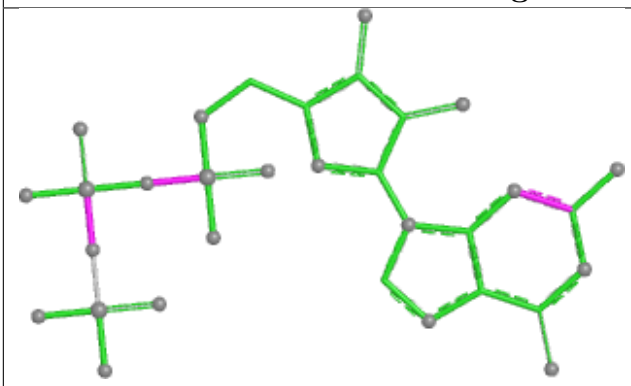


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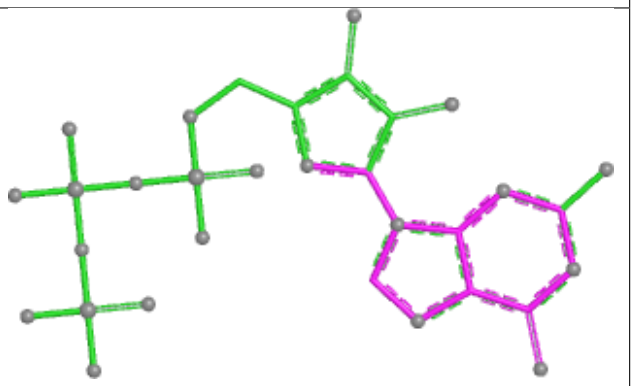


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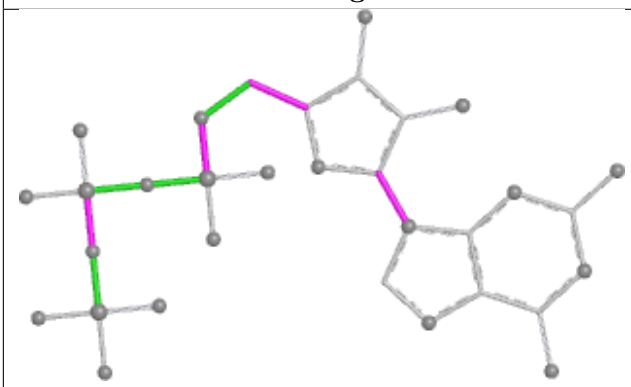
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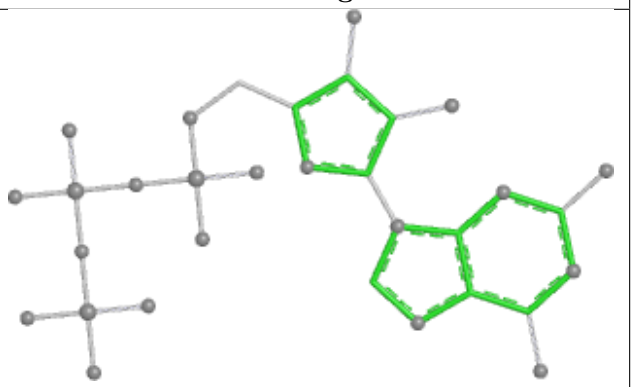
Bond lengths



Bond angles

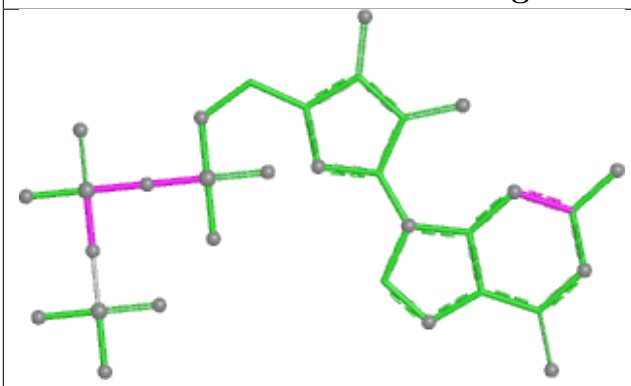


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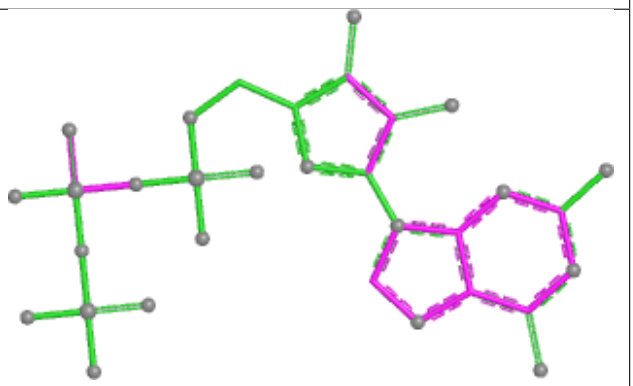


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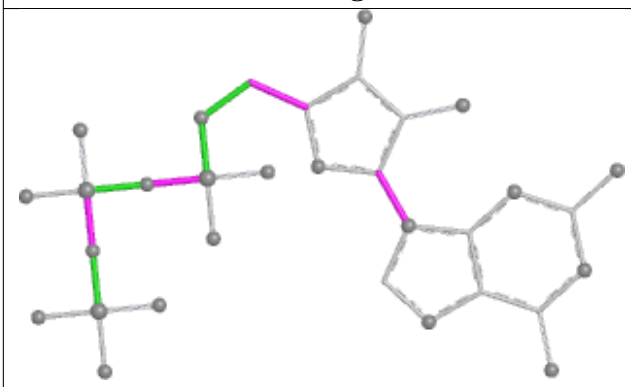
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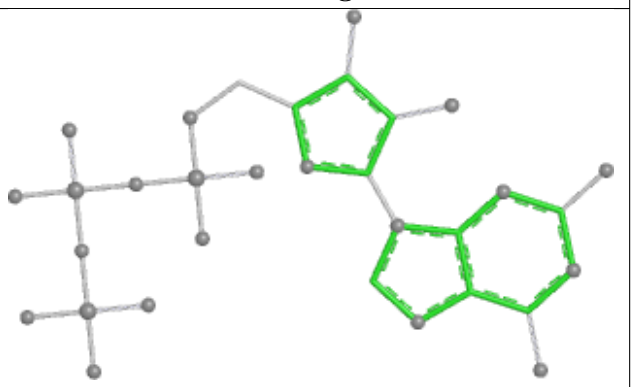
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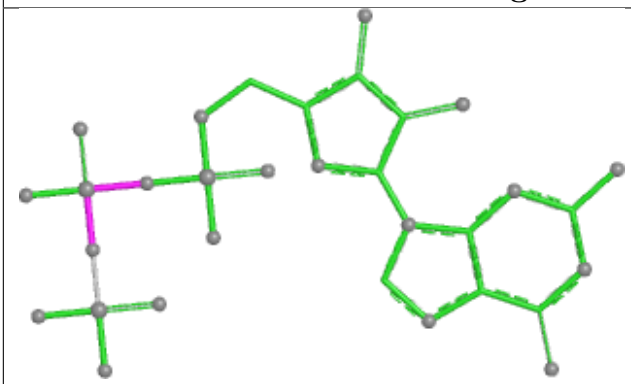


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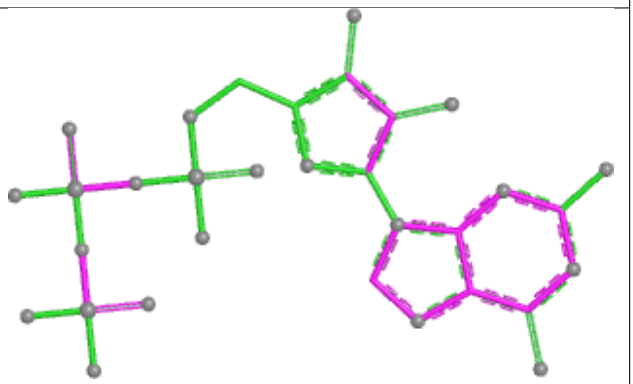


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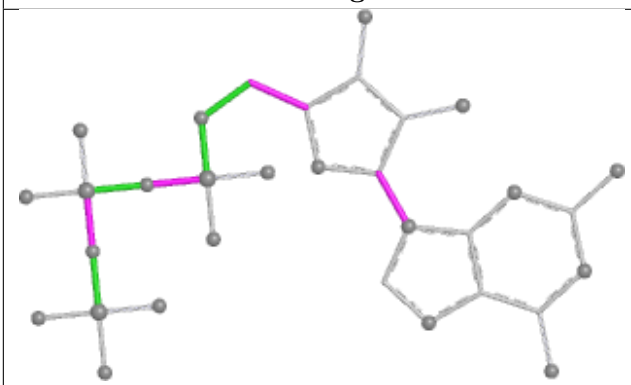
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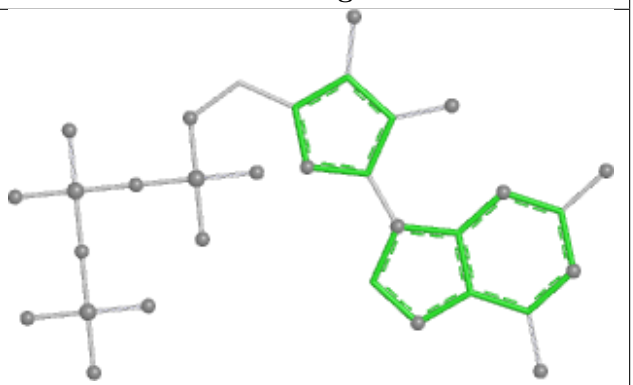
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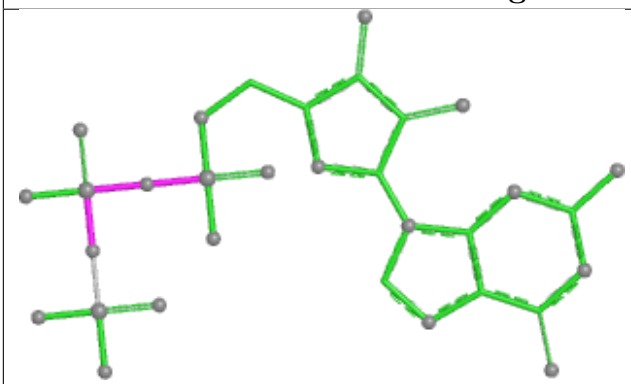


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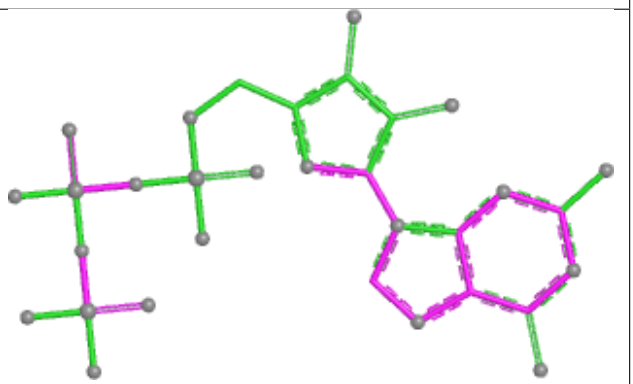


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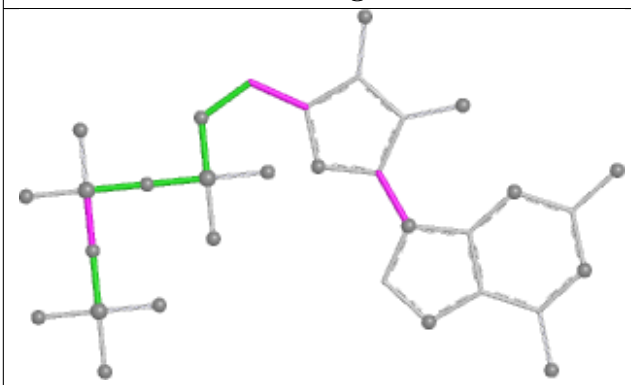
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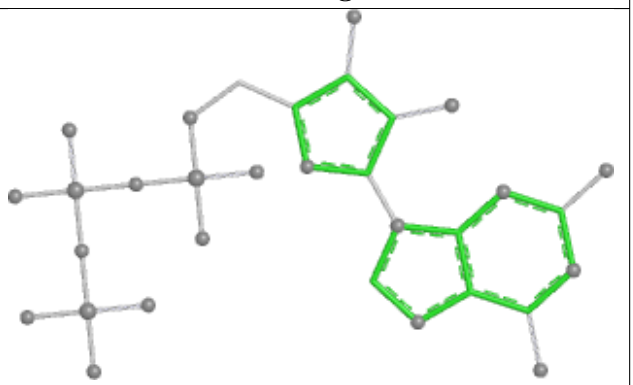
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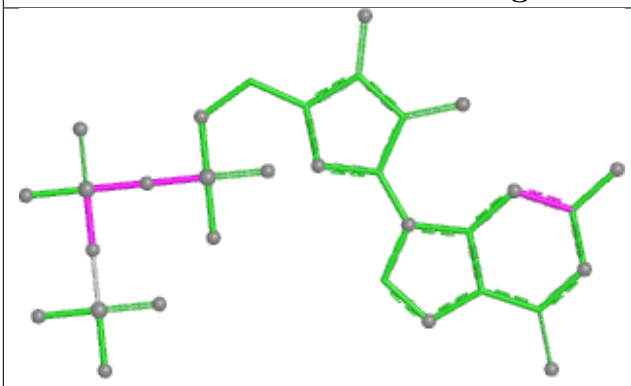


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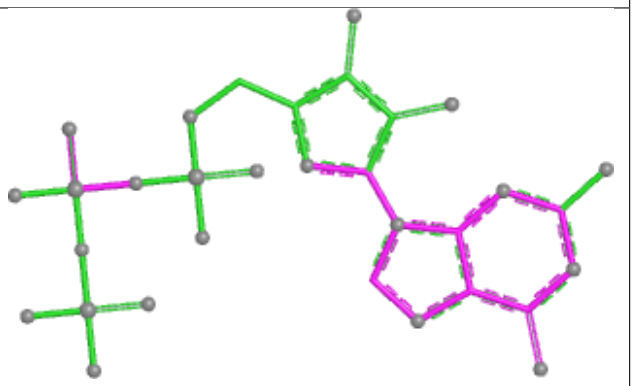


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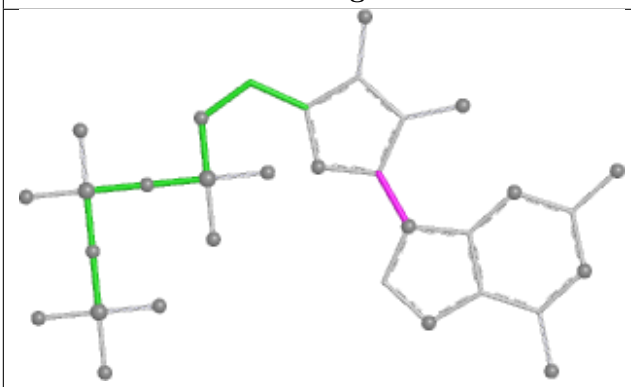
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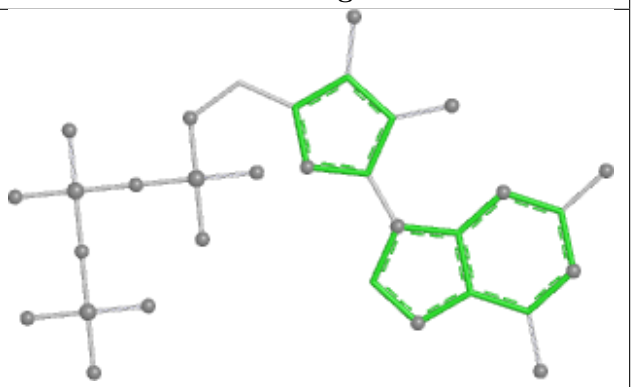
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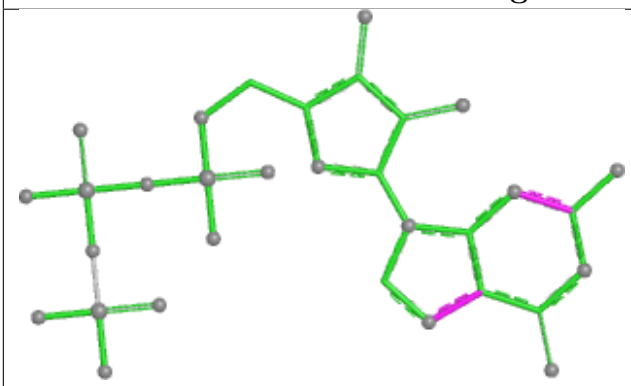


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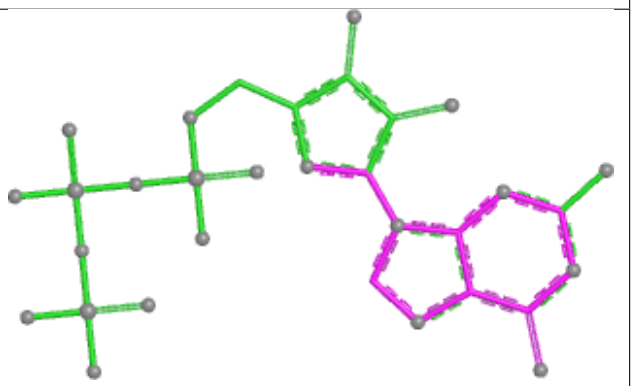


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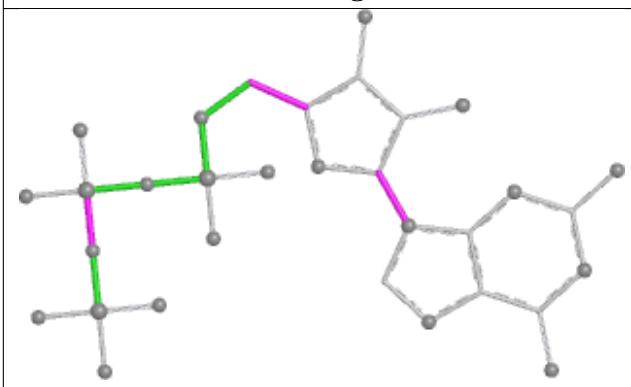
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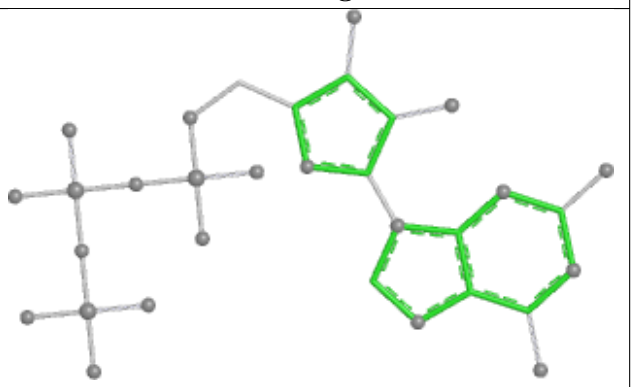
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Bond angles

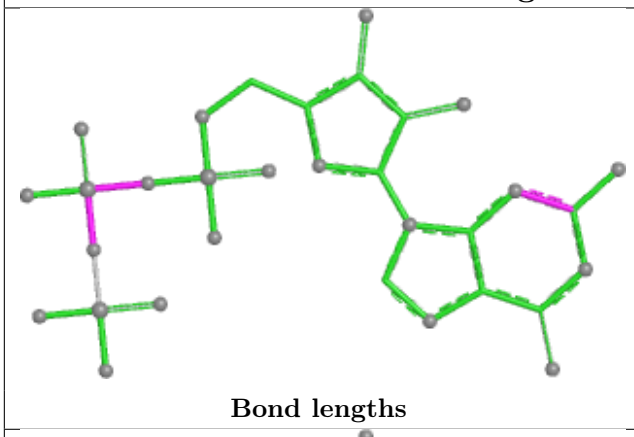


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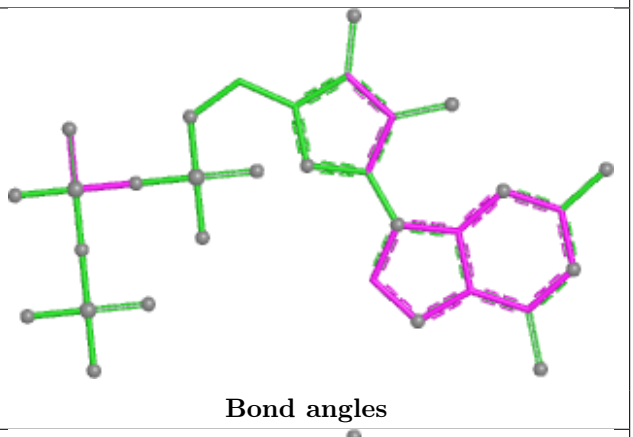


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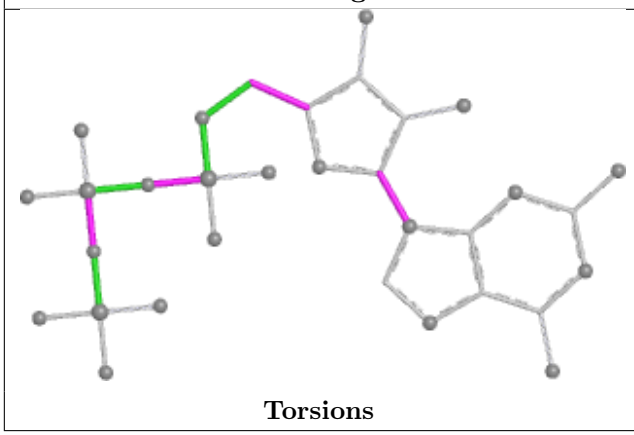
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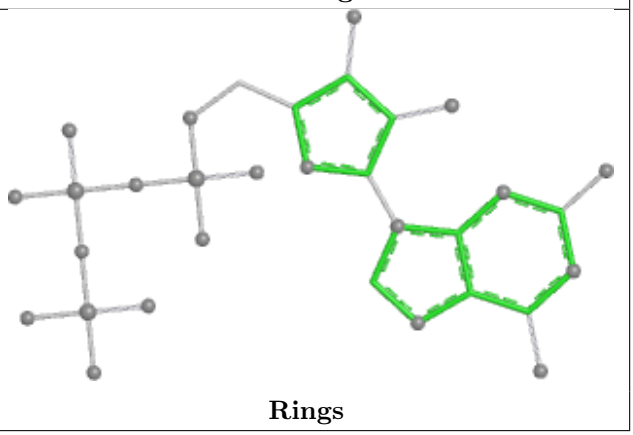
Bond lengths



Bond angles

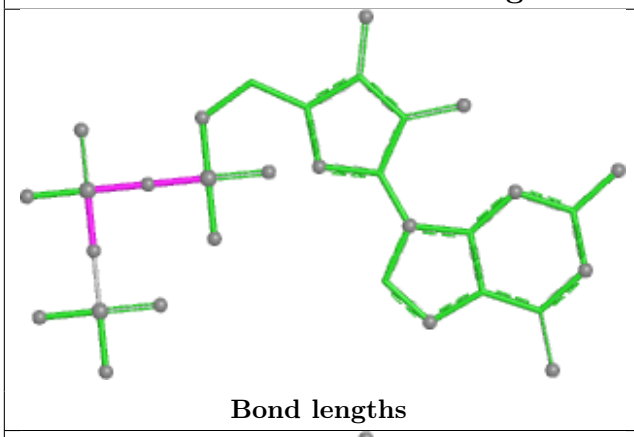


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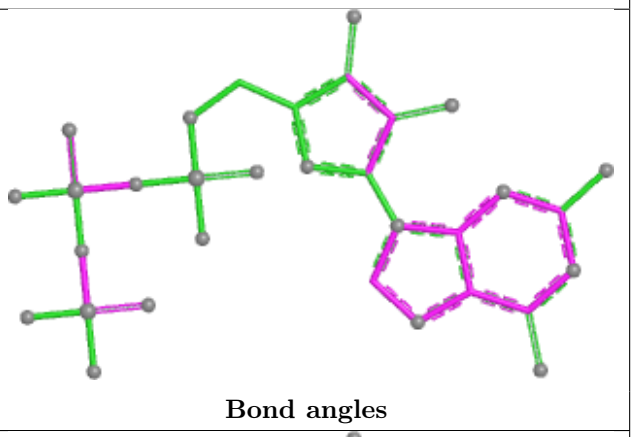


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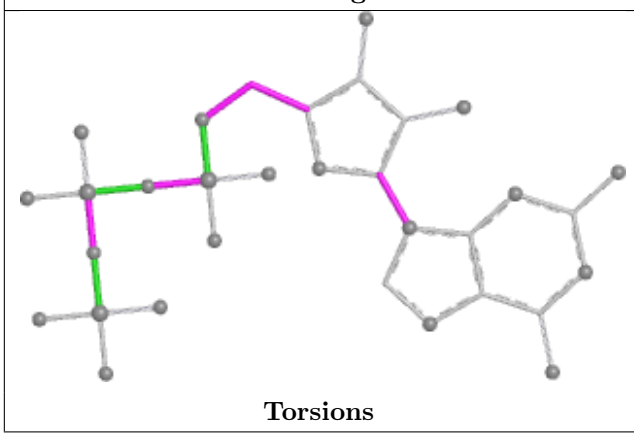
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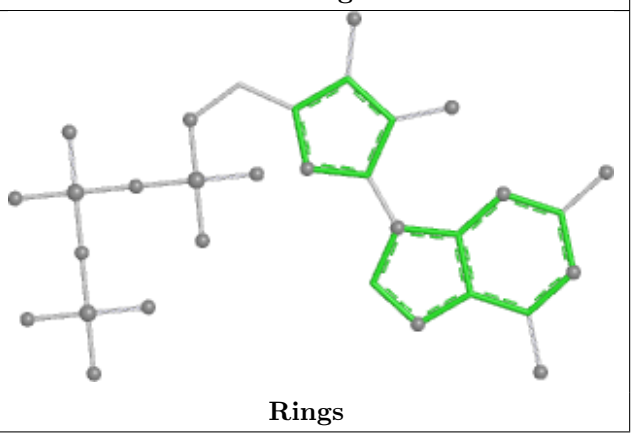
Bond lengths



Bond angles

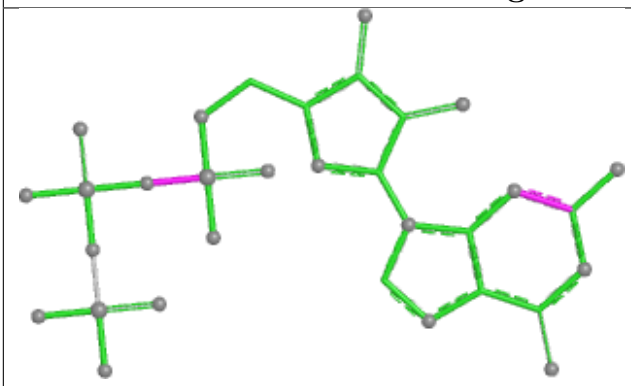


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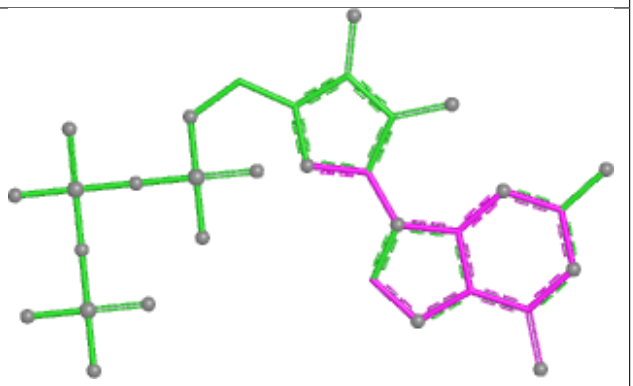


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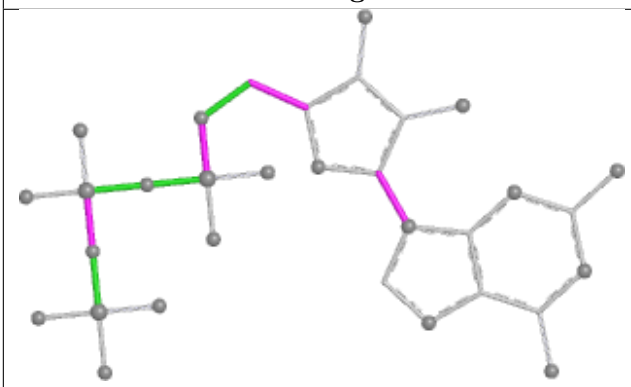
Ligand GTP NH 501



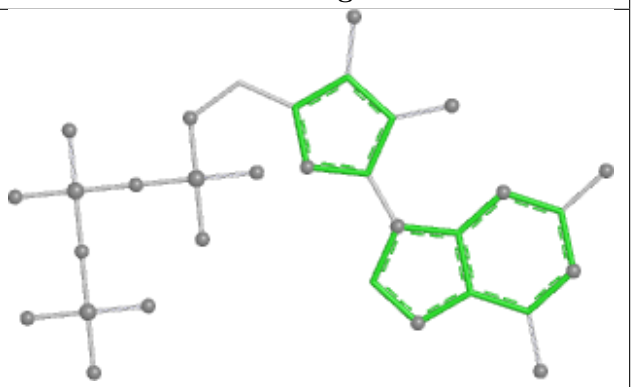
Bond lengths



Bond angles

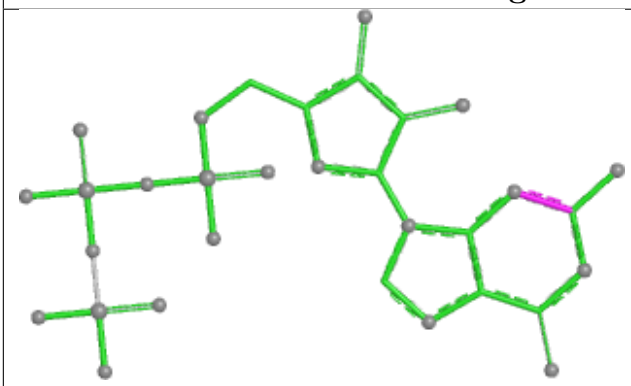


Torsions

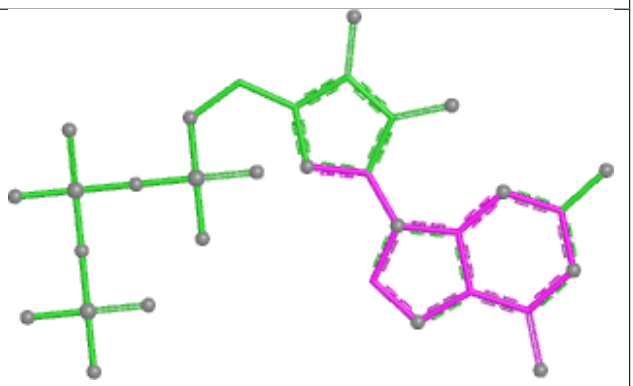


Rings

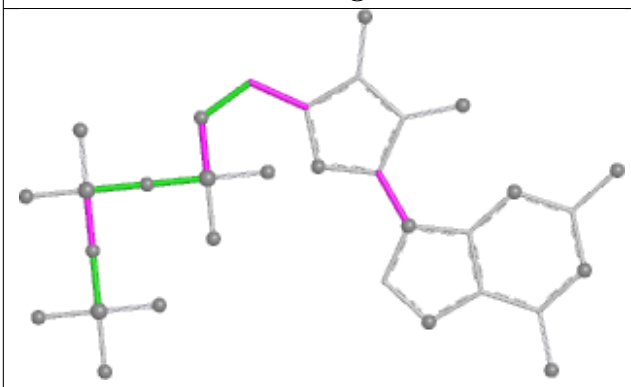
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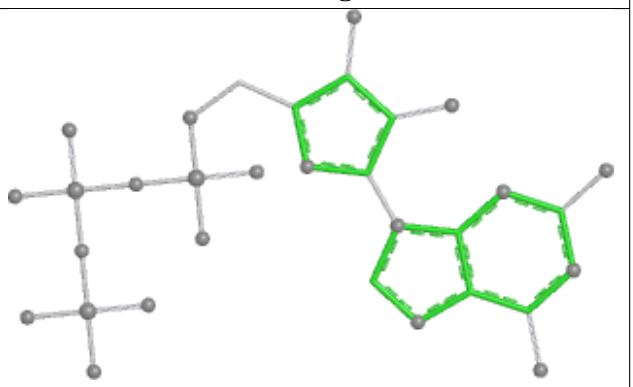
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Bond angles

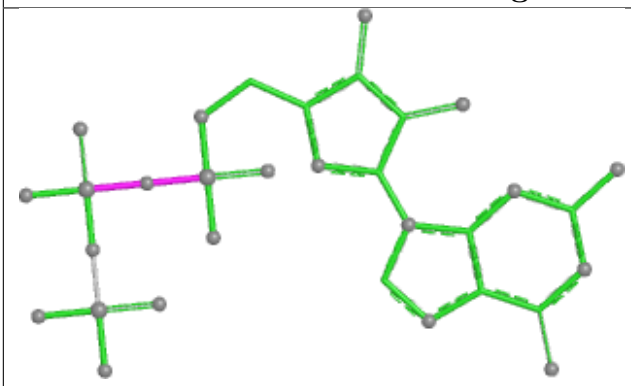


Torsions

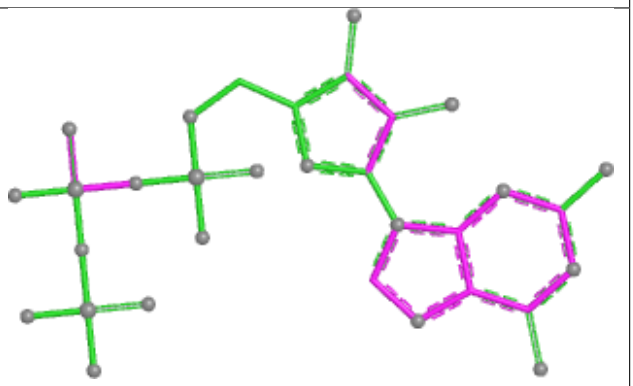


Rings

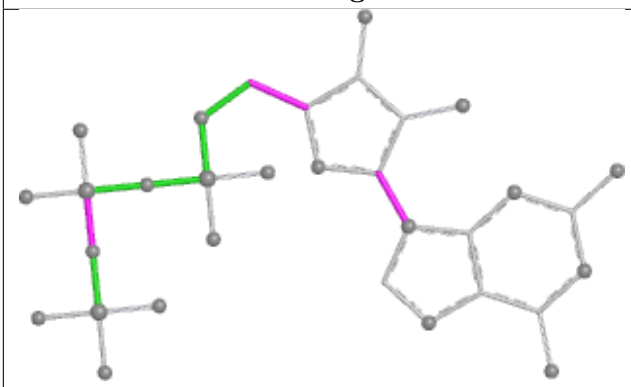
Ligand GTP BE 501



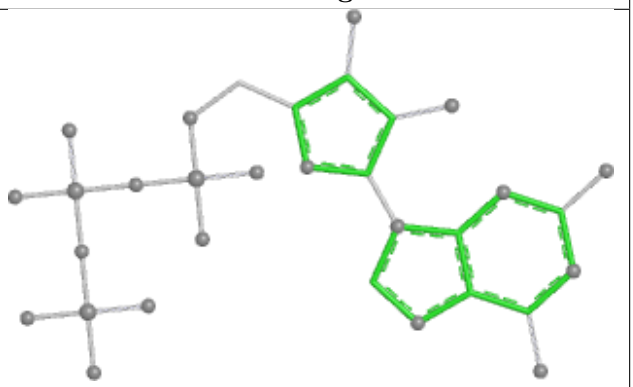
Bond lengths



Bond angles

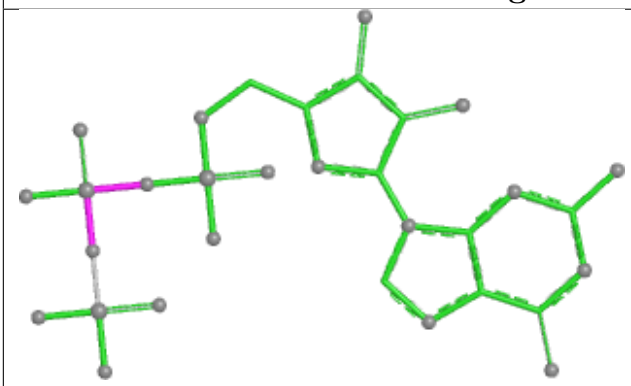


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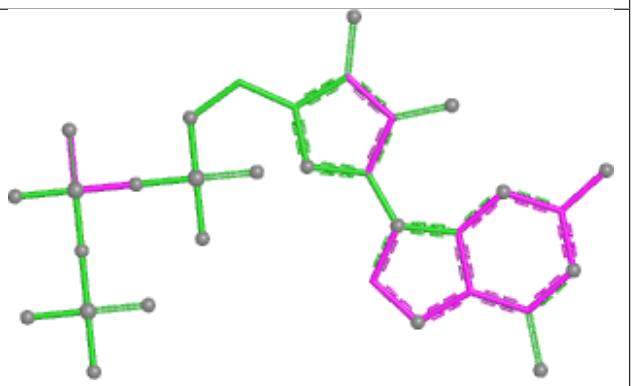


Rings

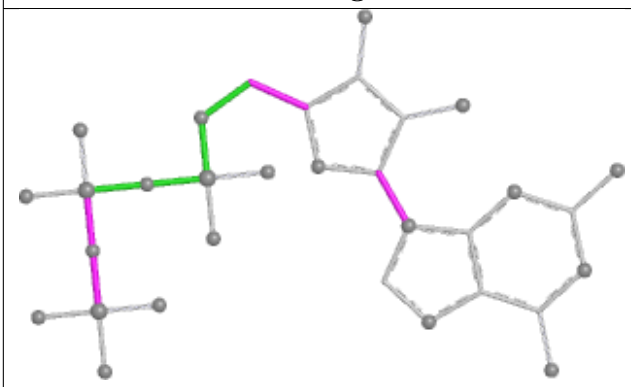
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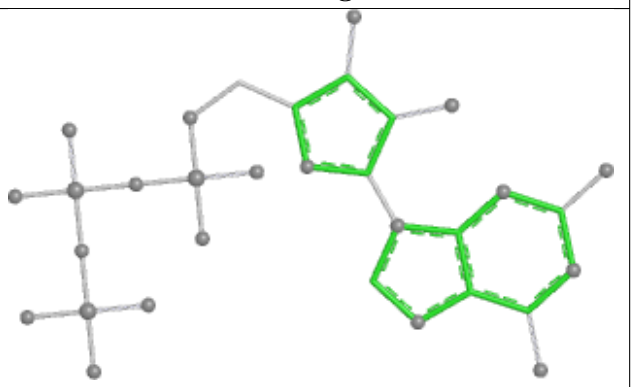
Bond lengths



Bond angles

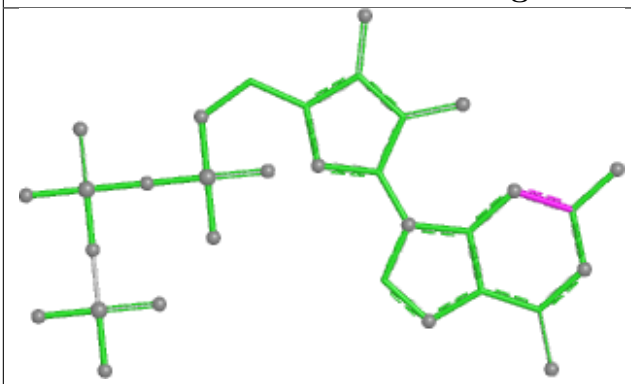


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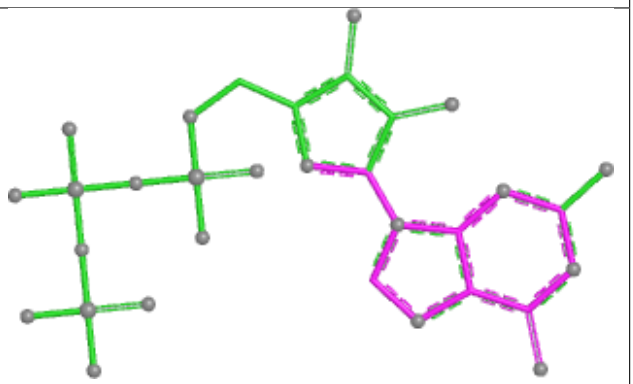


Rings

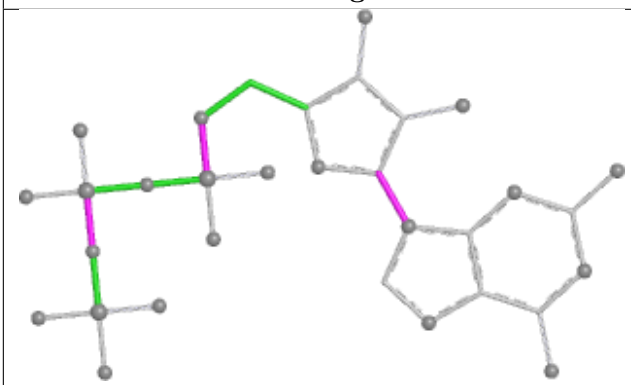
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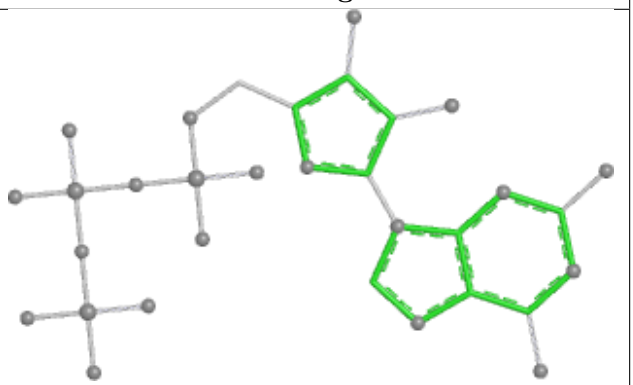
Bond lengths



Bond angles

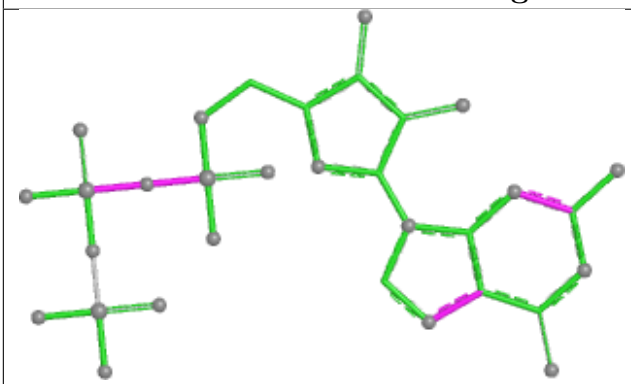


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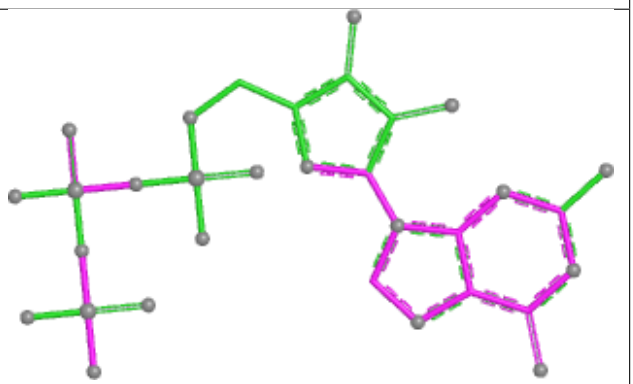


Rings

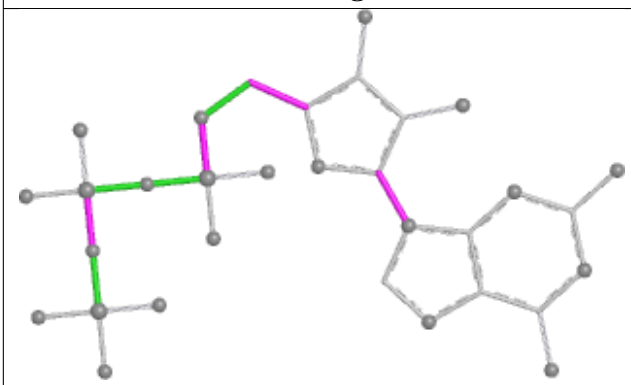
Ligand GTP EB 501



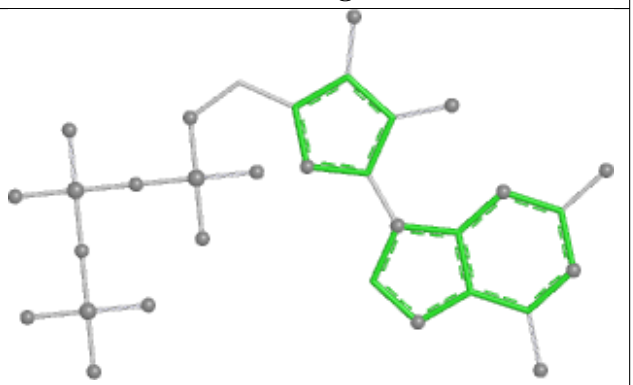
Bond lengths



Bond angles

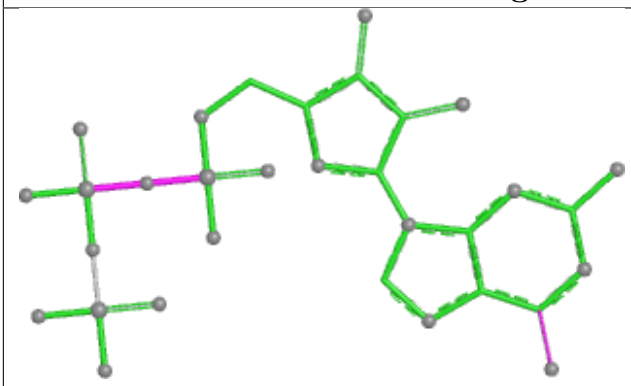


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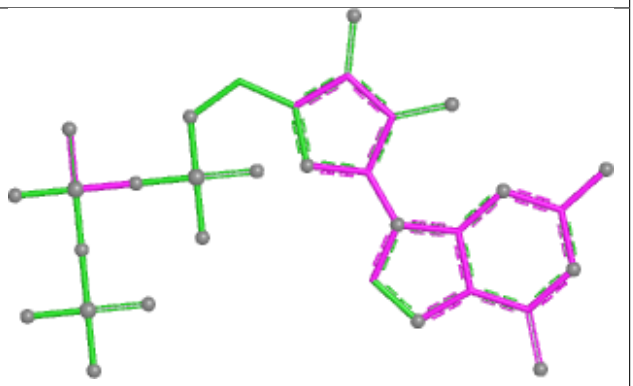


Rings

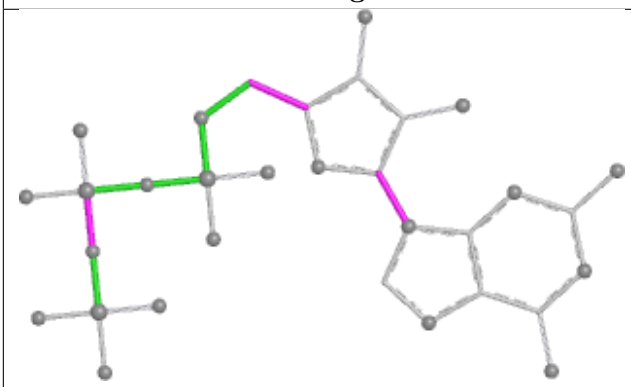
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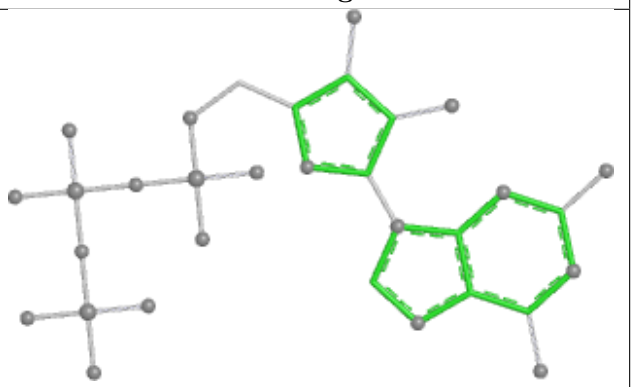
Bond lengths



Bond angles

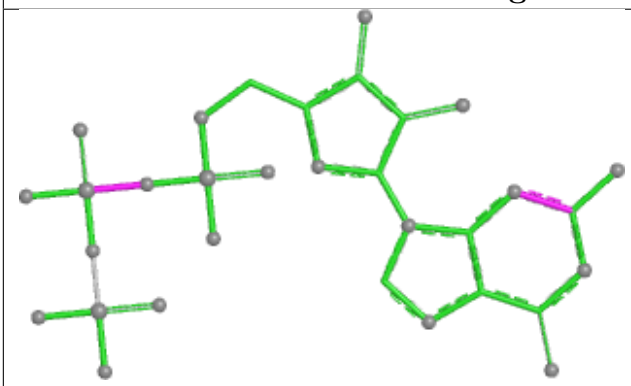


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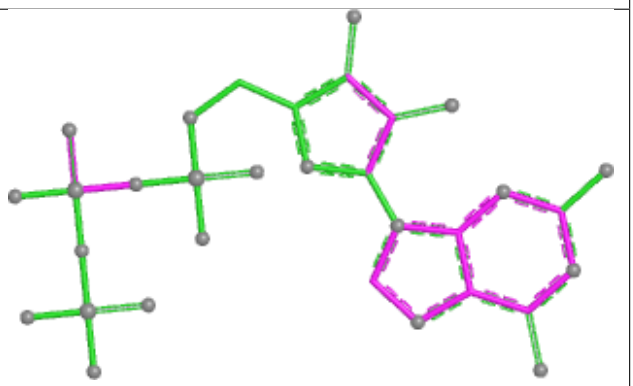


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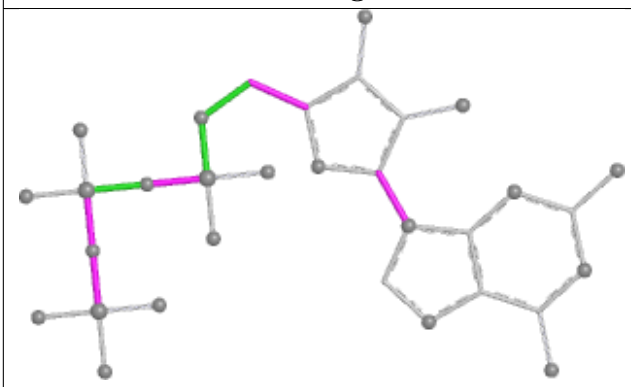
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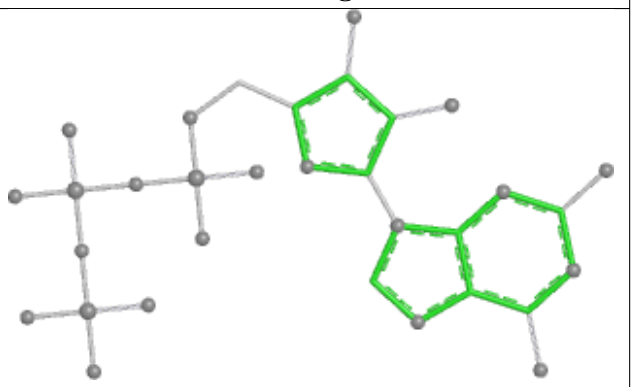
Bond lengths



Bond angles

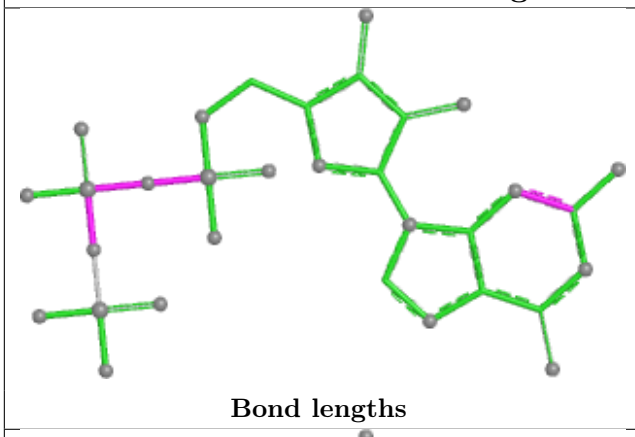


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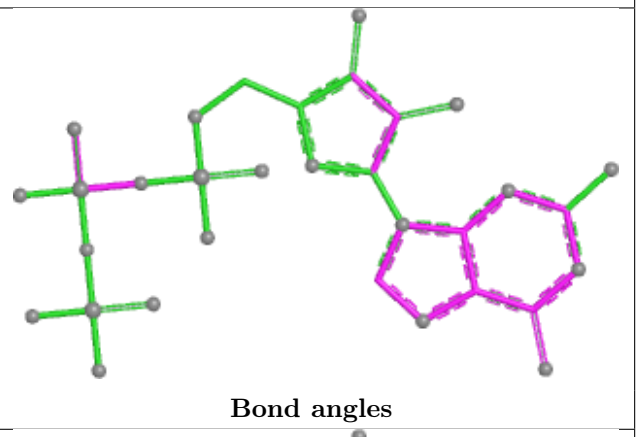


Rings

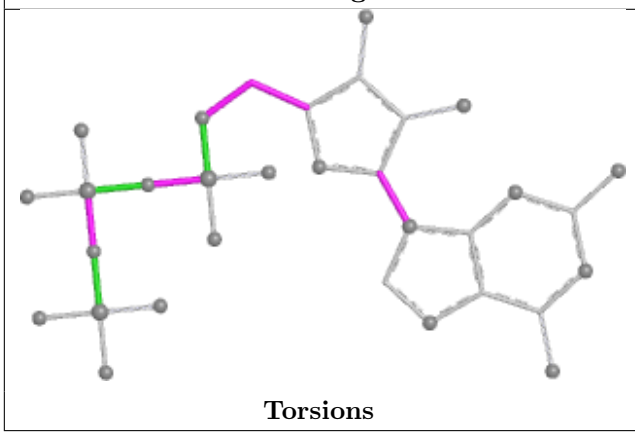
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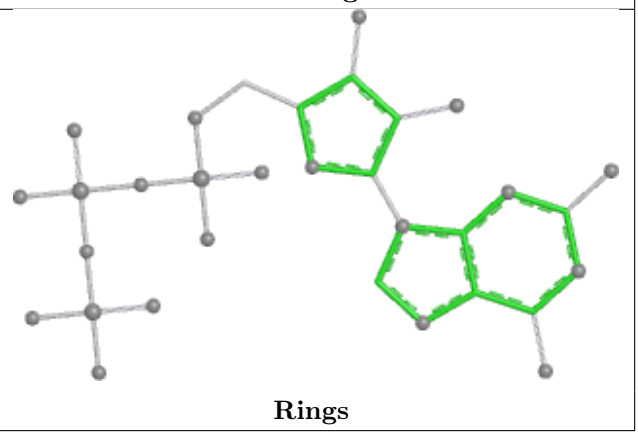
Bond lengths



Bond angles

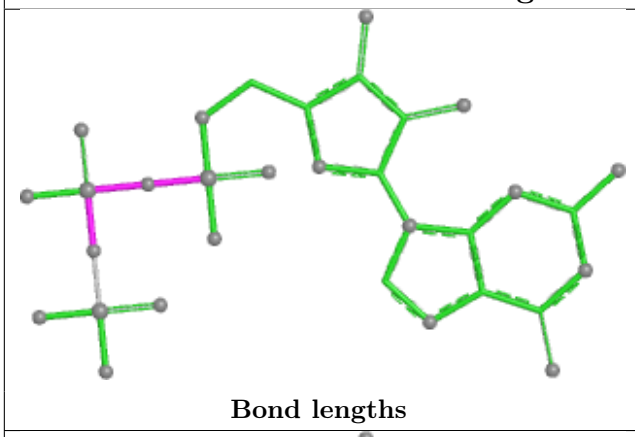


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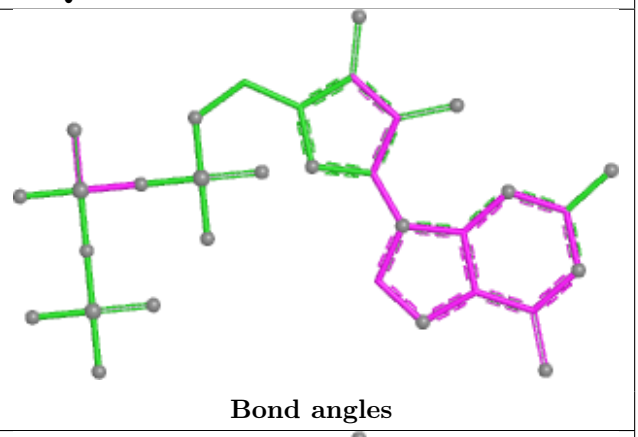


Rings

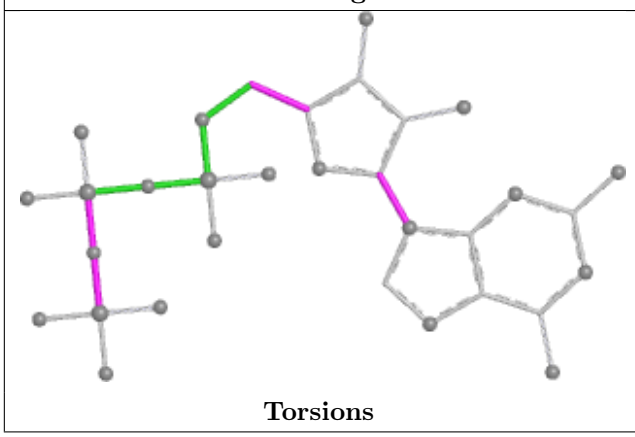
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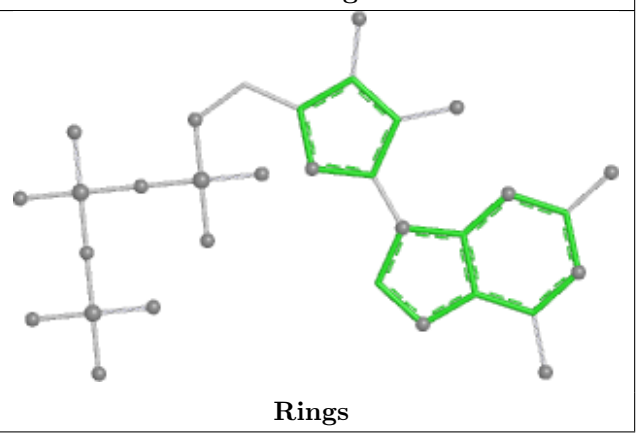
Bond lengths



Bond angles

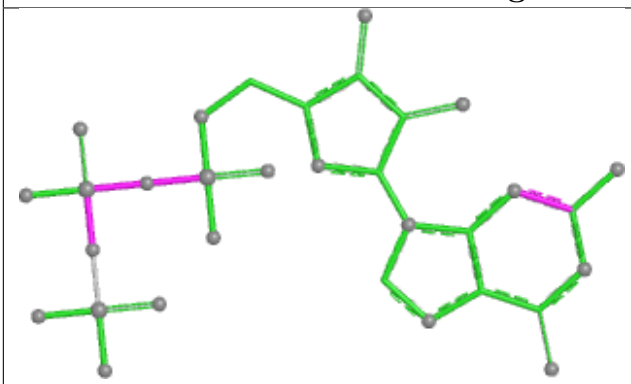


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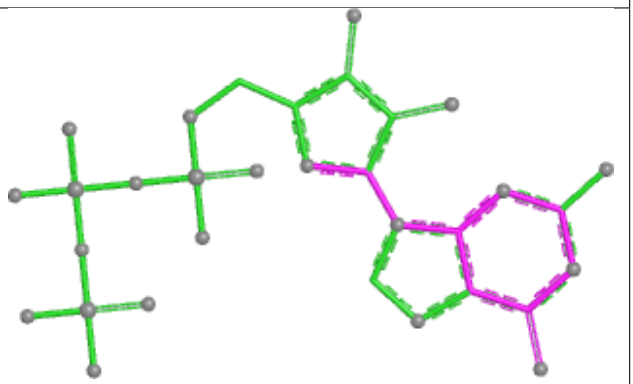


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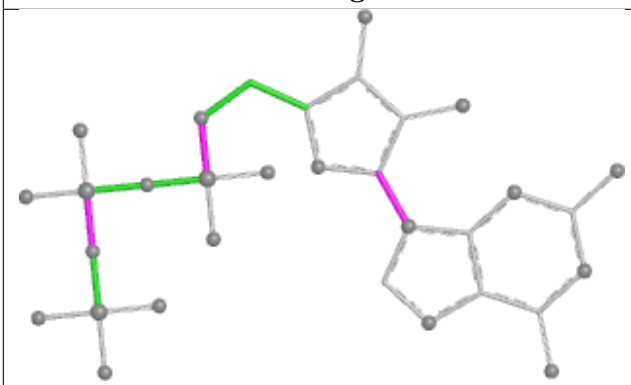
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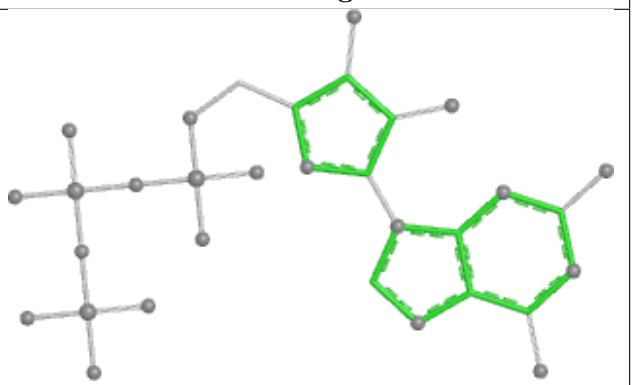
Bond lengths



Bond angles

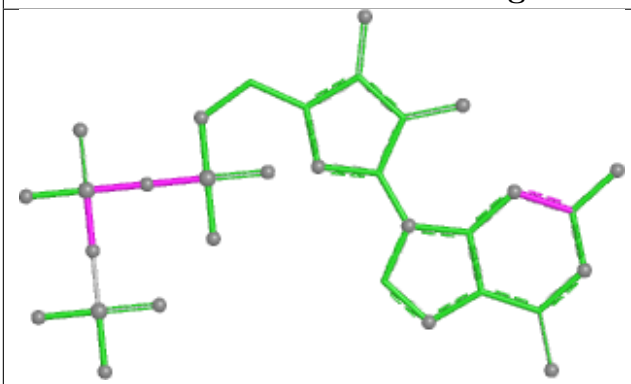


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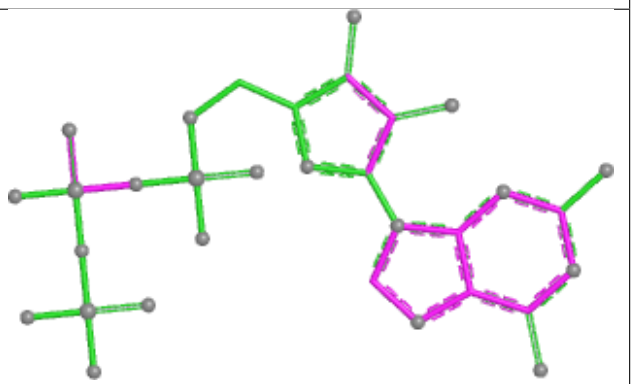


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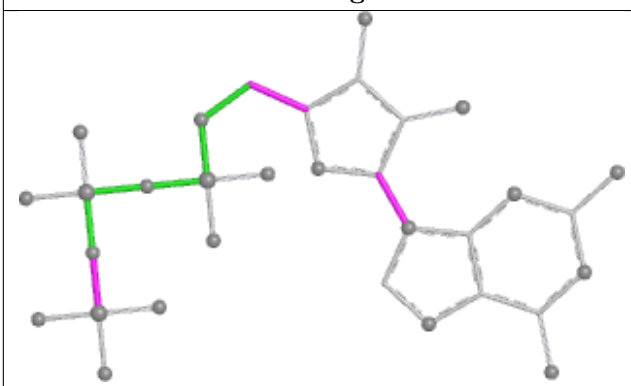
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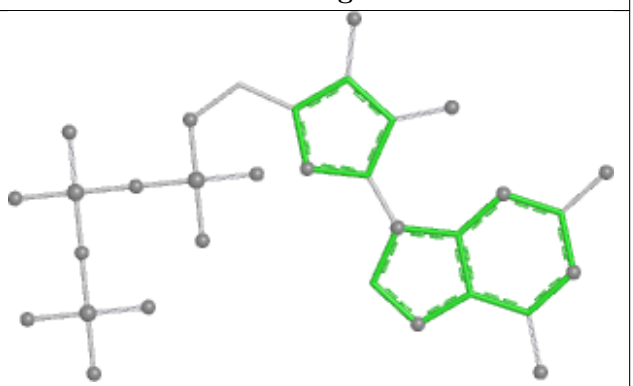
Bond lengths



Bond angles

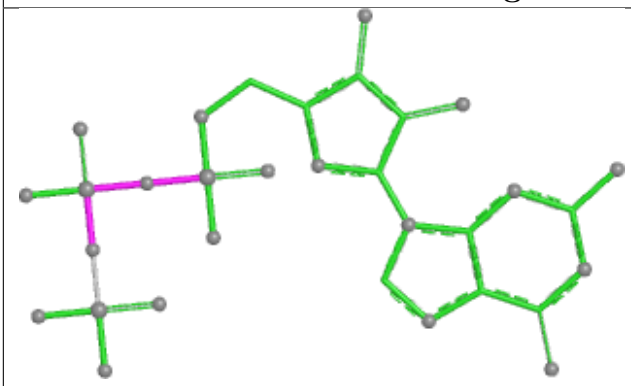


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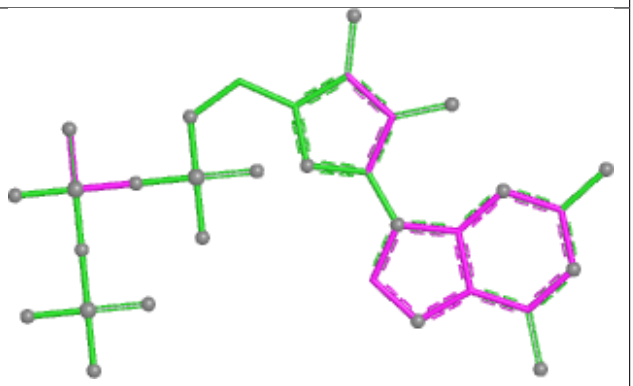


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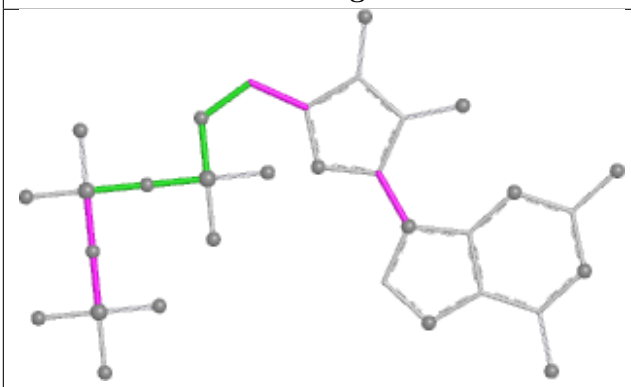
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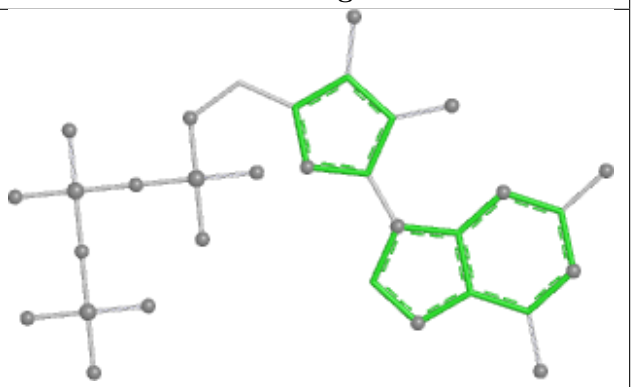
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Bond angles

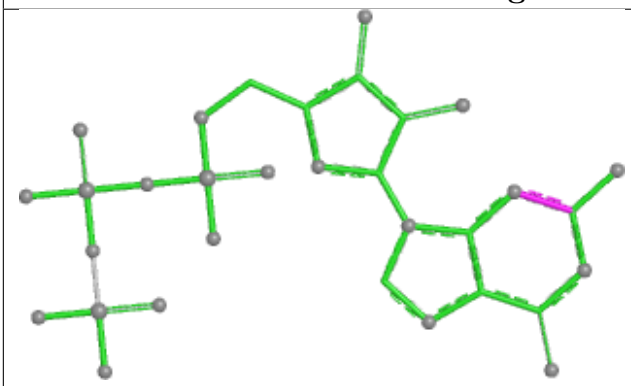


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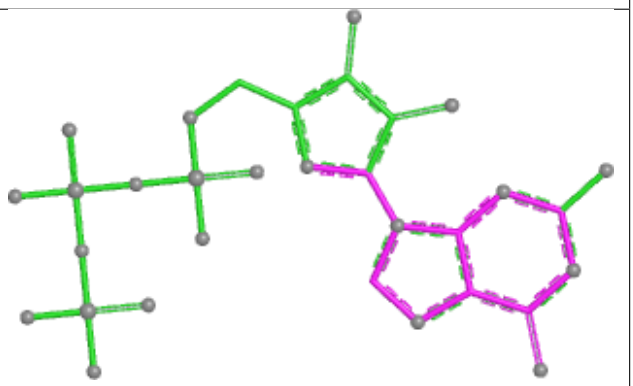


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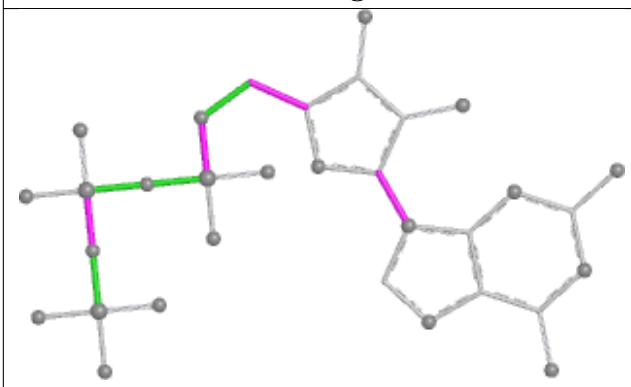
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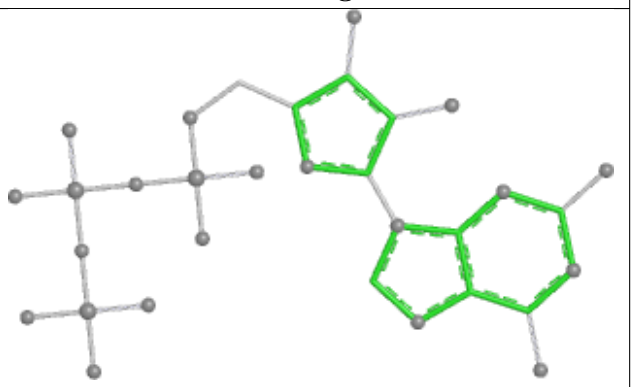
Bond lengths



Bond angles

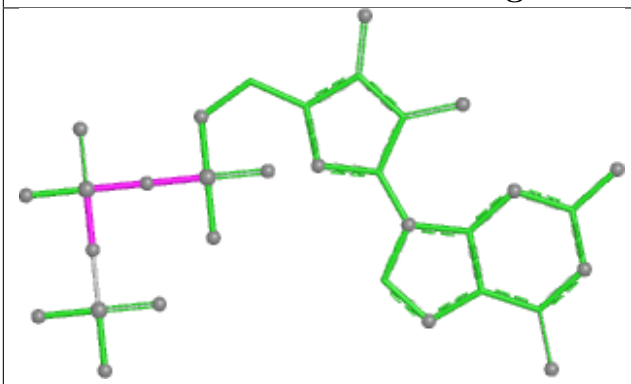


Torsions

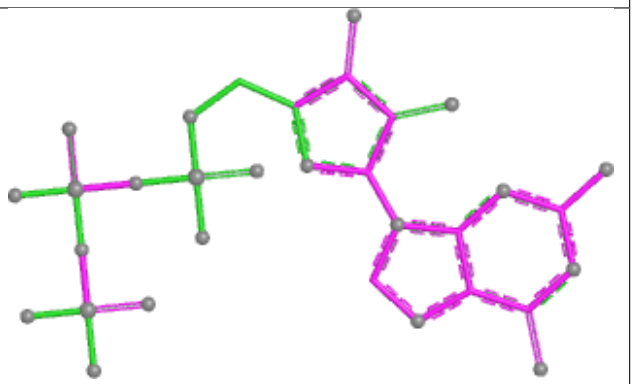


Rings

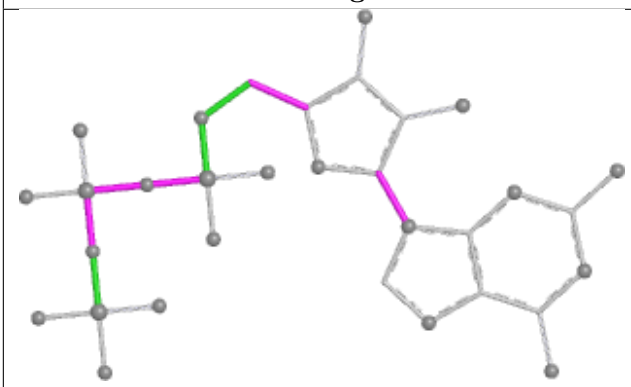
Ligand GTP BM 501



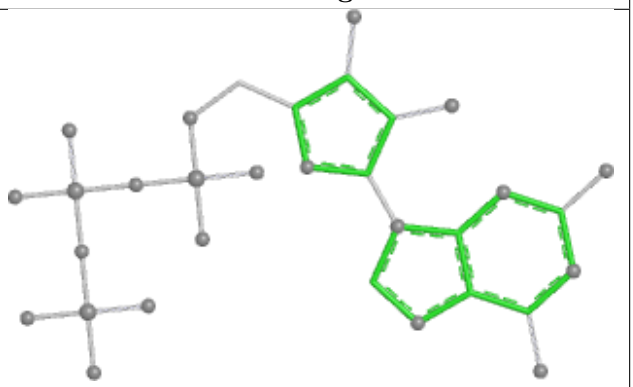
Bond lengths



Bond angles

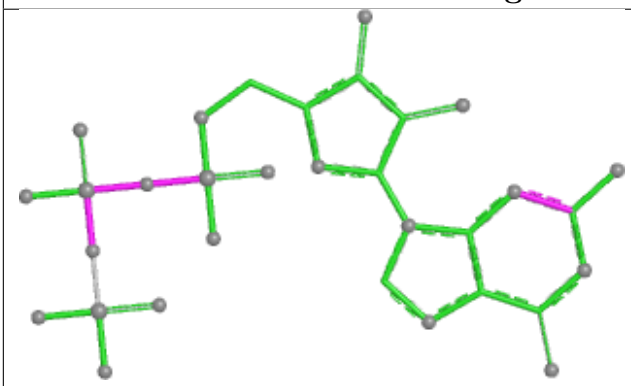


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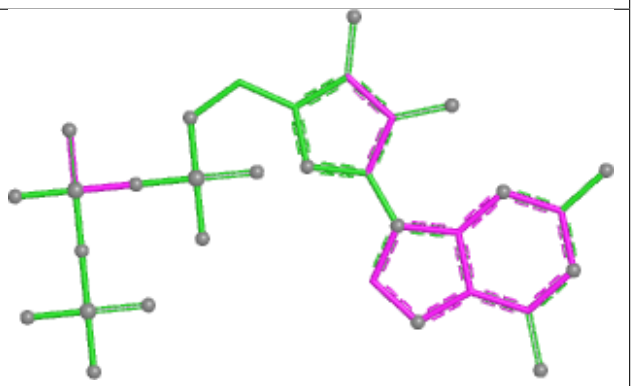


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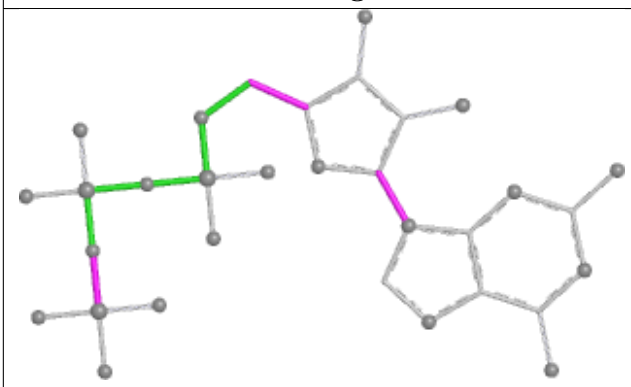
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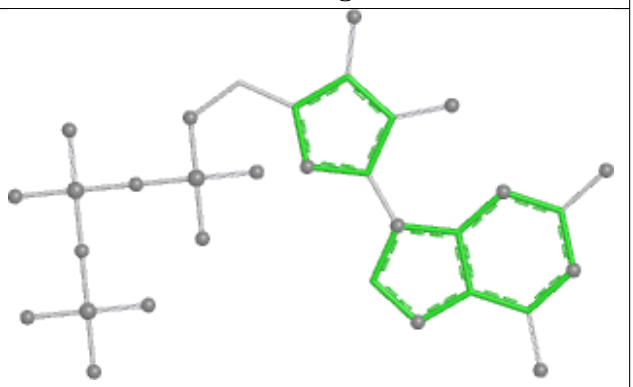
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Bond angles

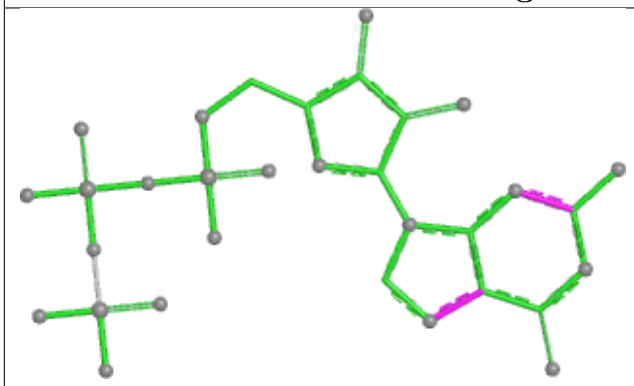


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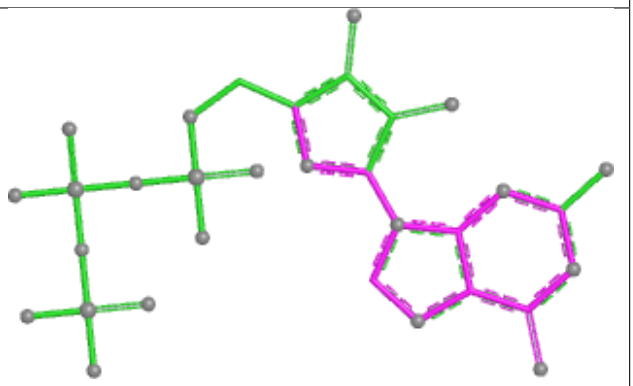


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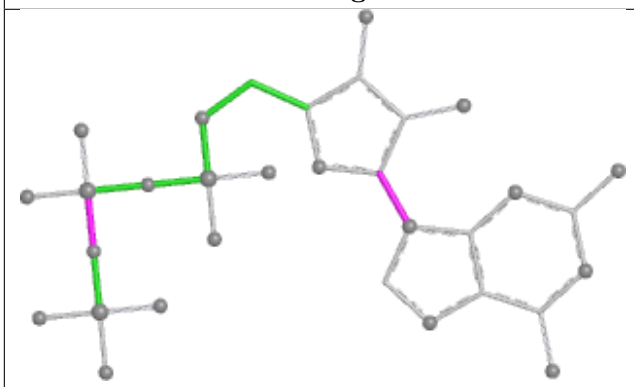
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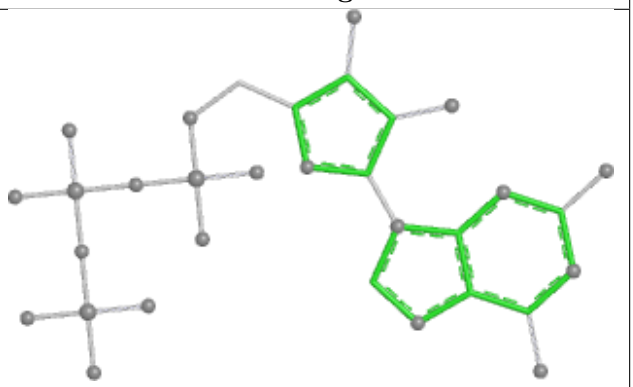
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Bond angles

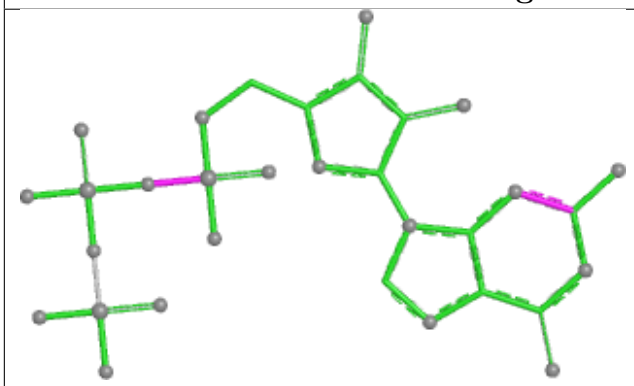


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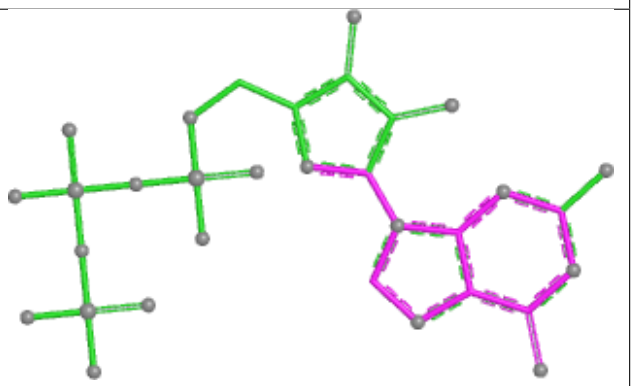


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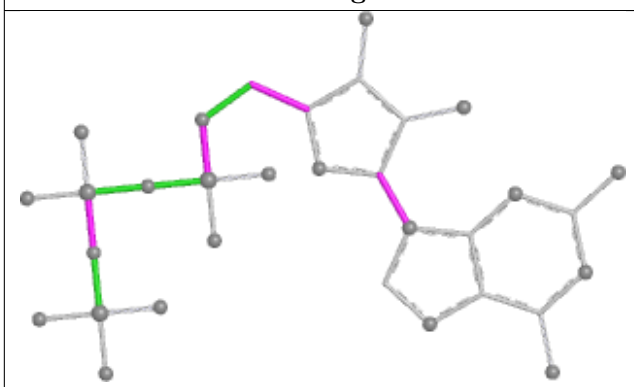
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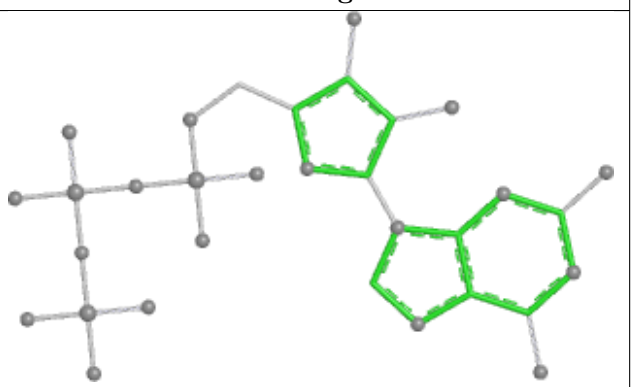
Bond lengths



Bond angles

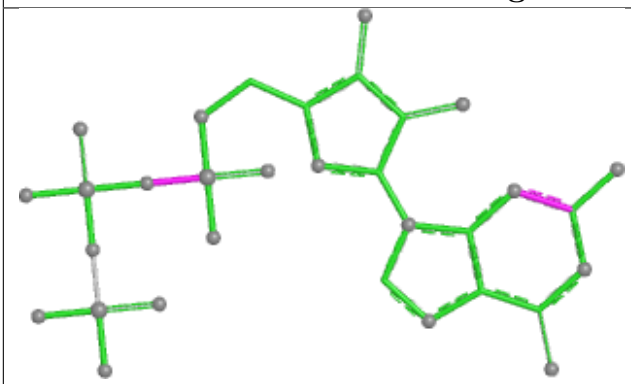


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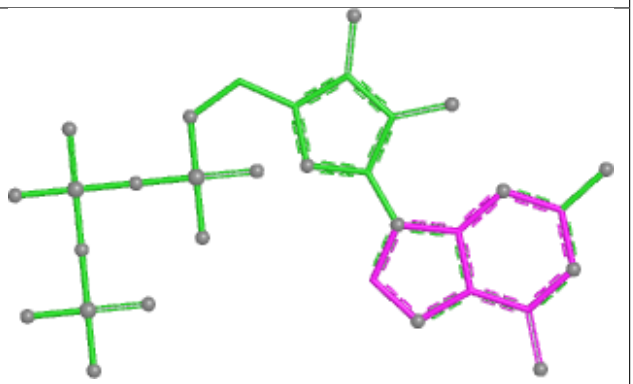


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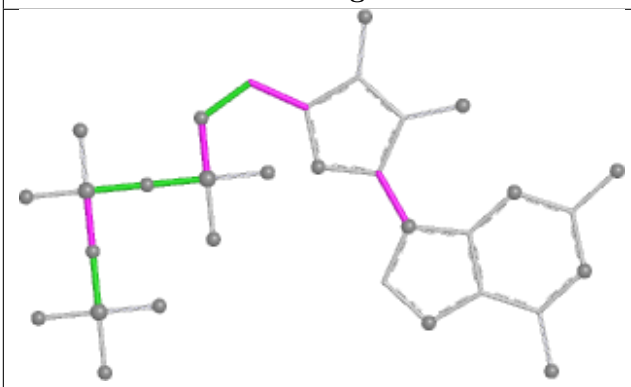
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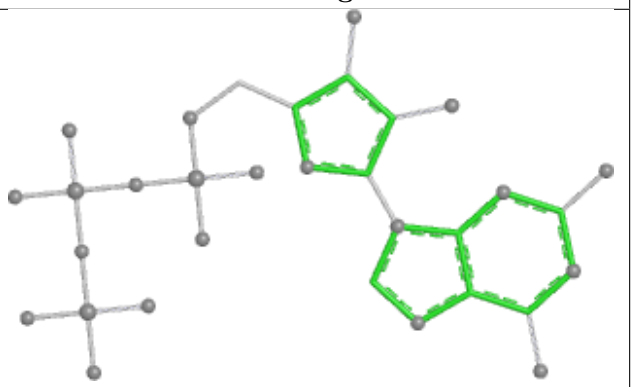
Bond lengths



Bond angles

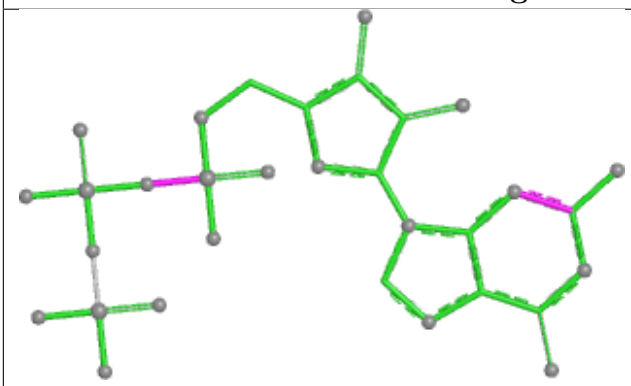


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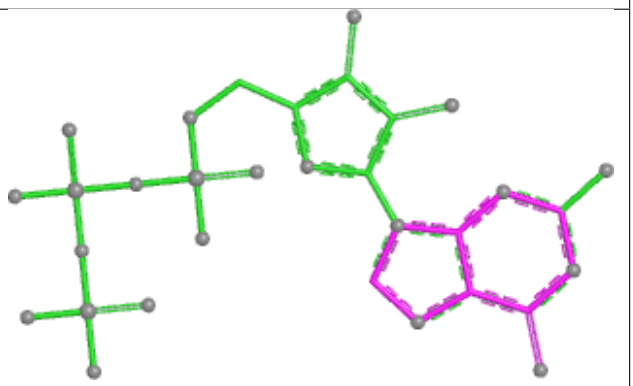


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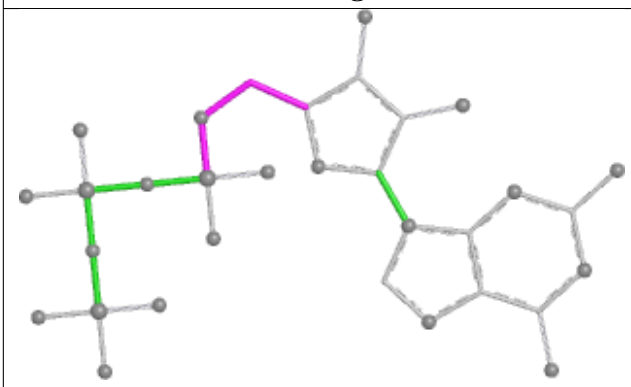
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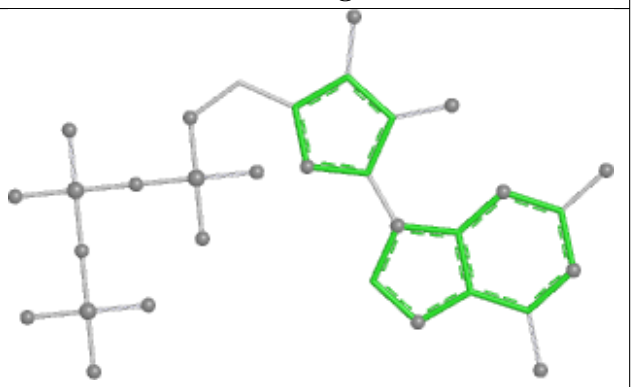
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Bond angles

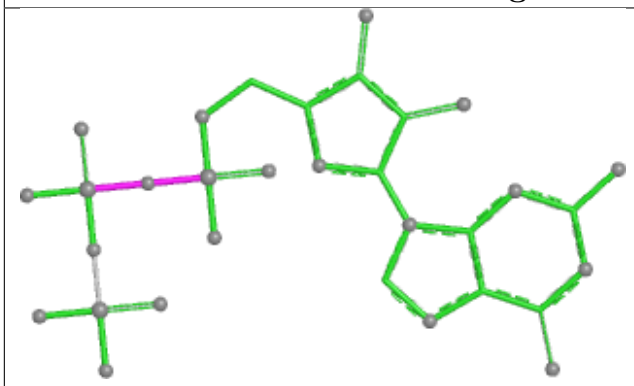


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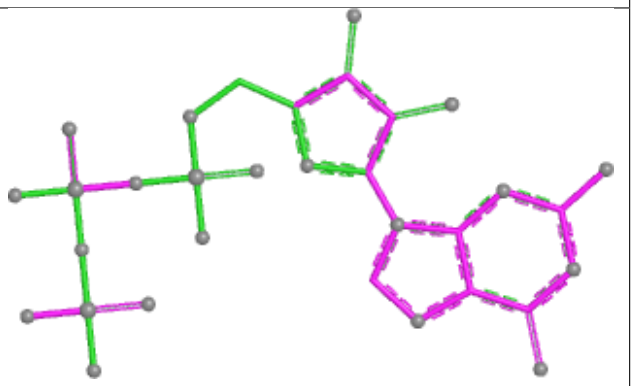


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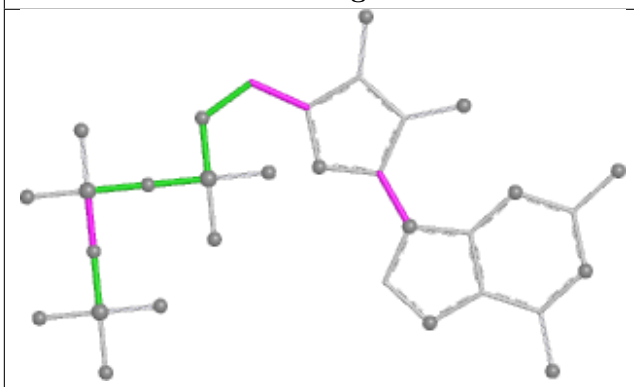
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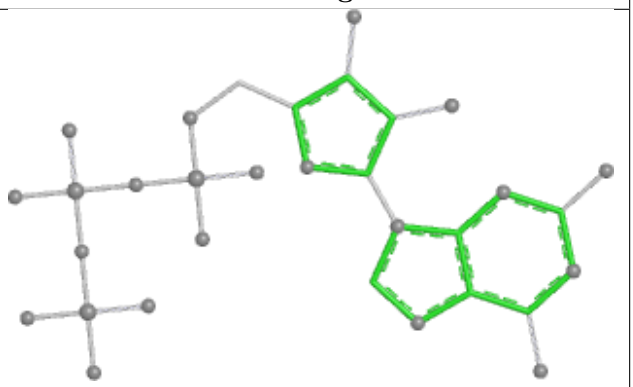
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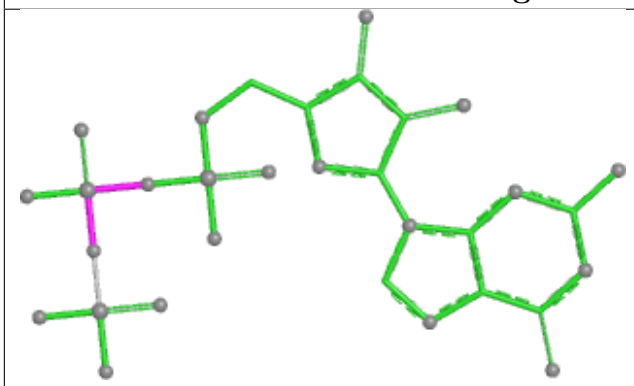


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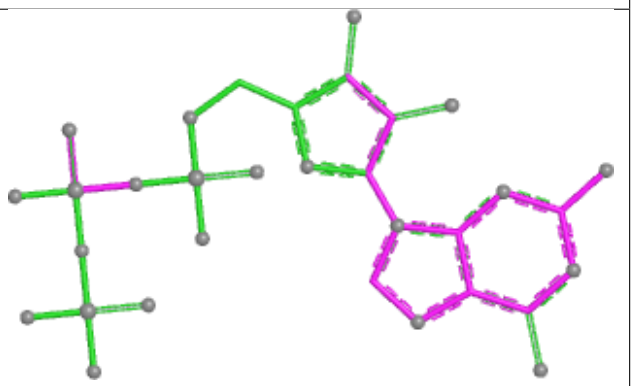


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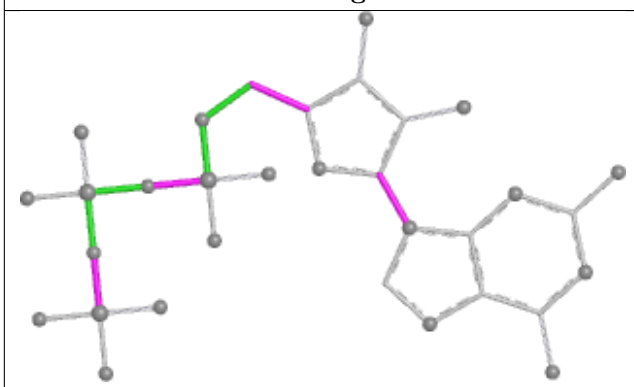
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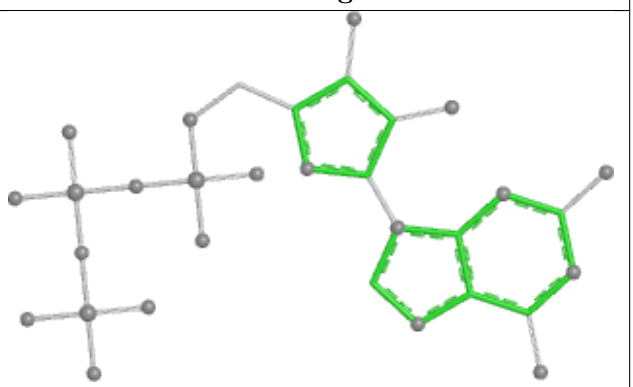
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Bond angles

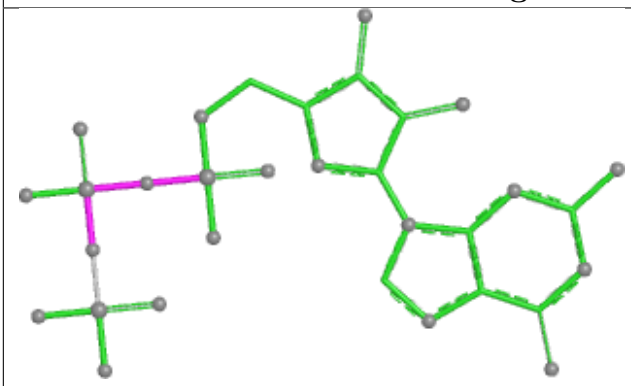


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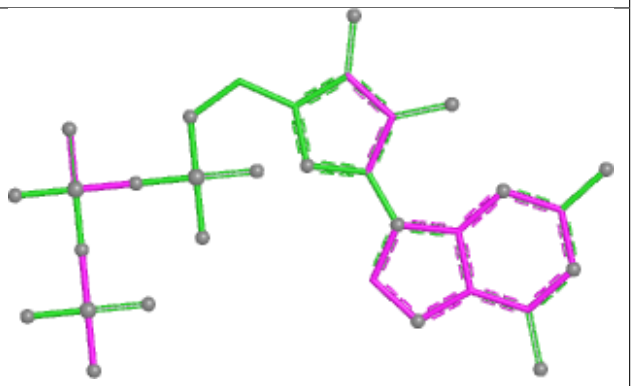


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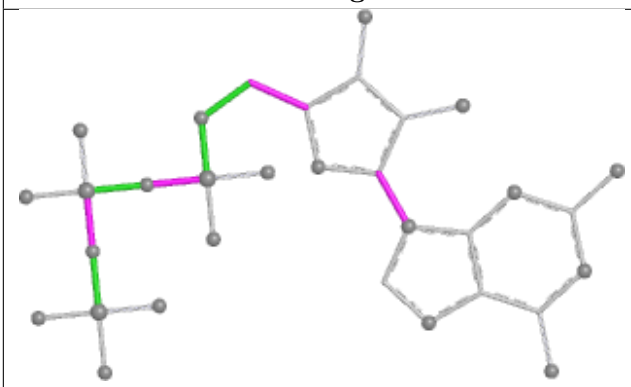
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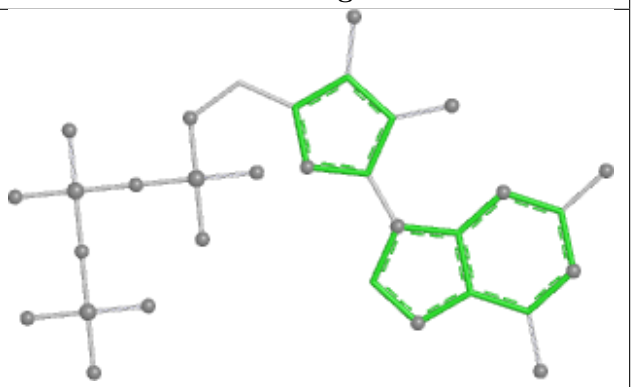
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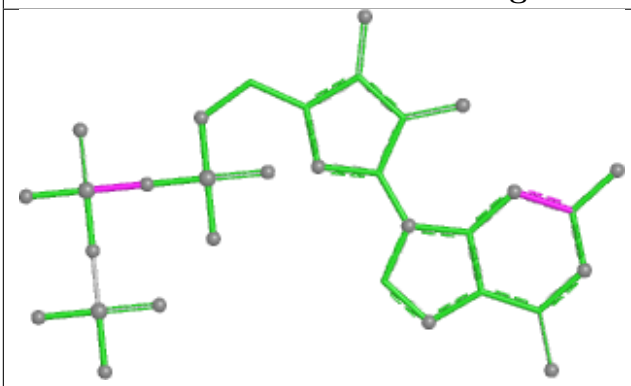


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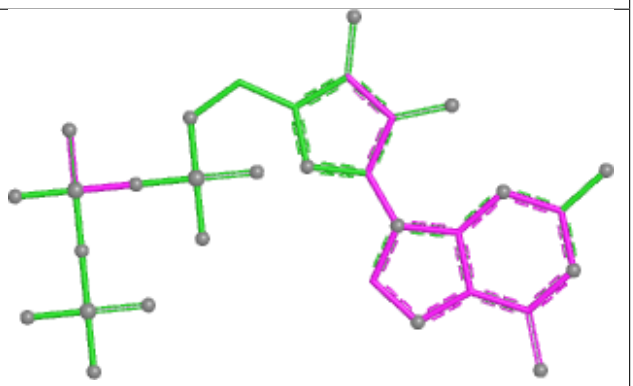


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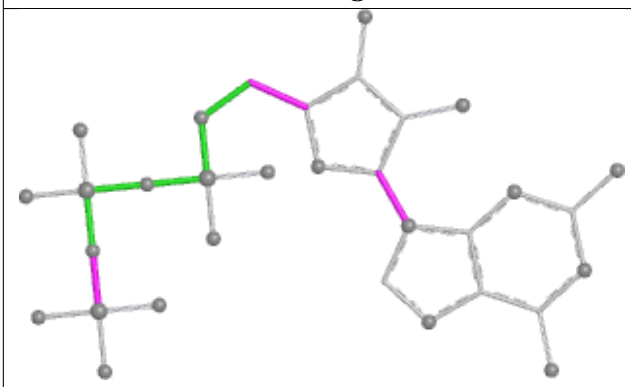
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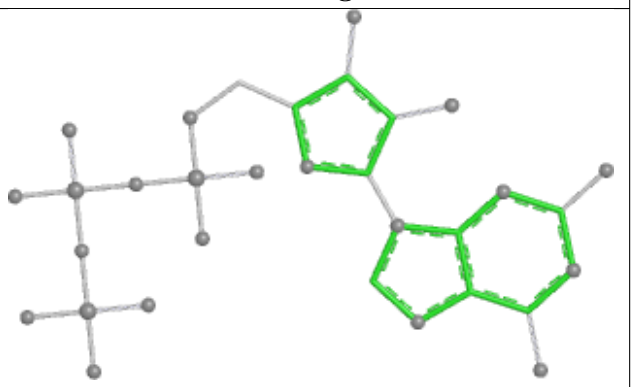
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Bond angles

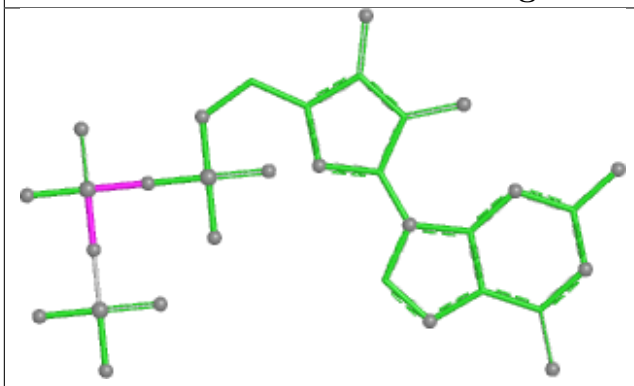


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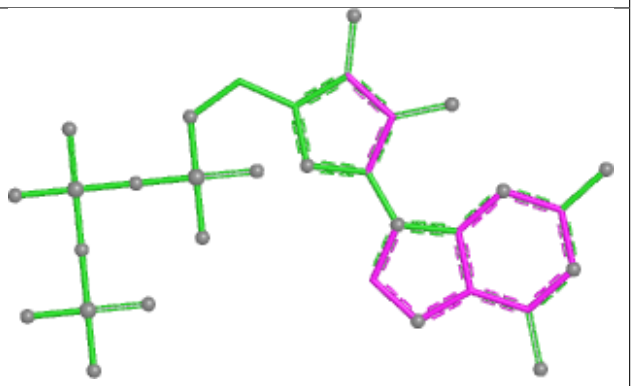


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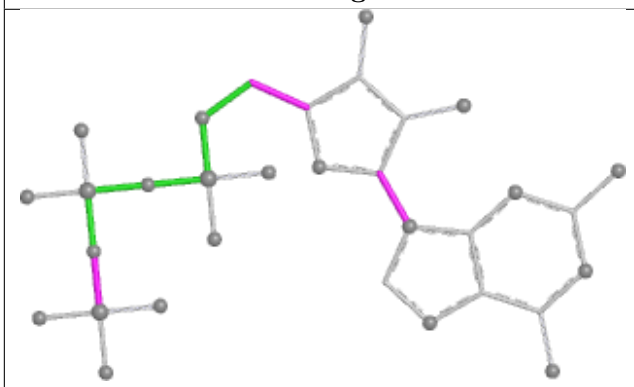
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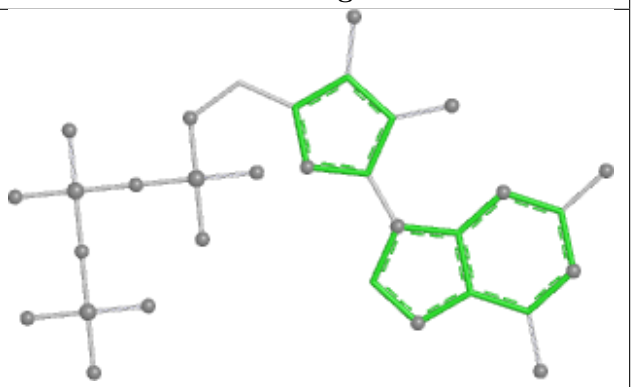
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Bond angles

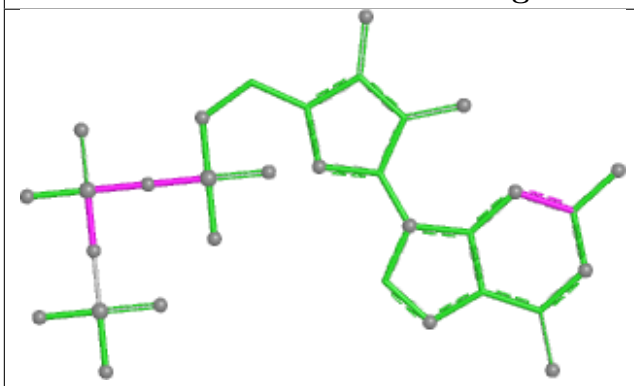


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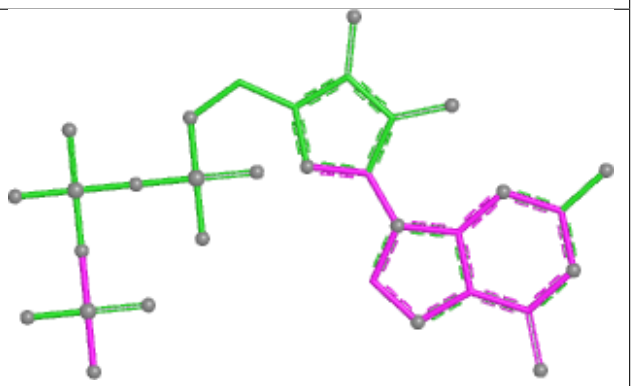


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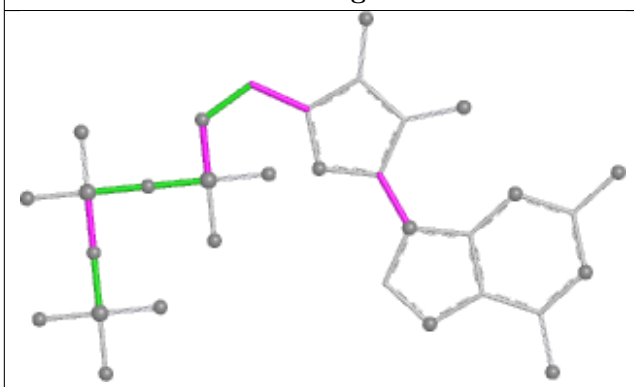
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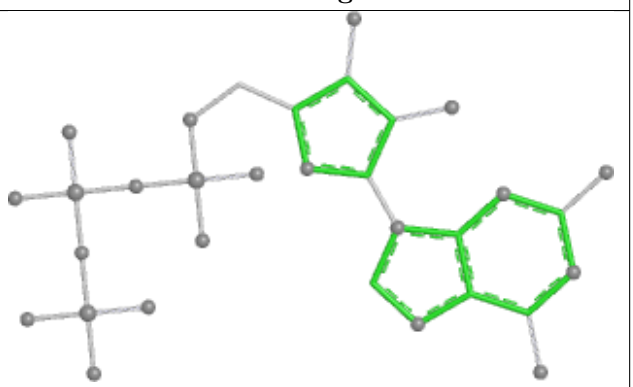
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Bond angles

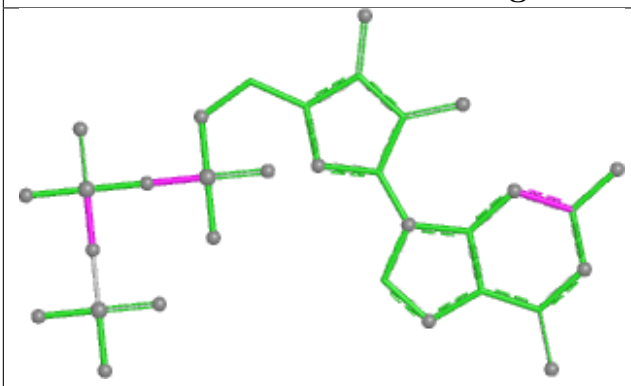


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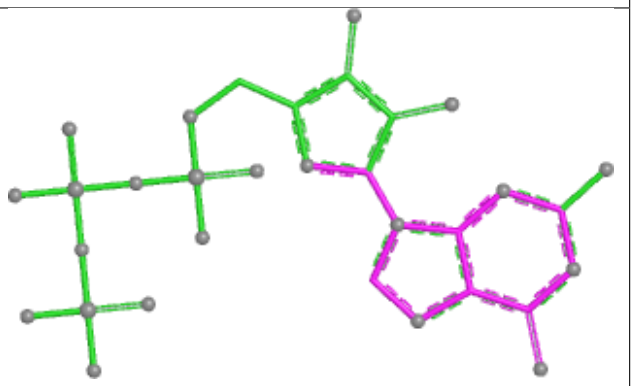


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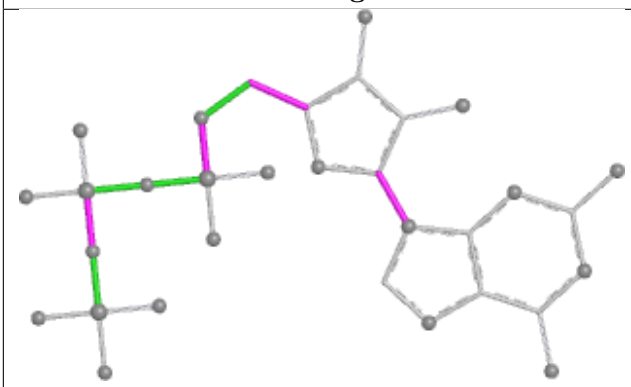
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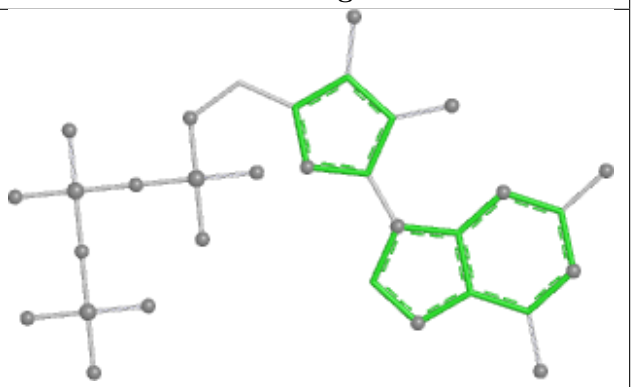
Bond lengths



Bond angles

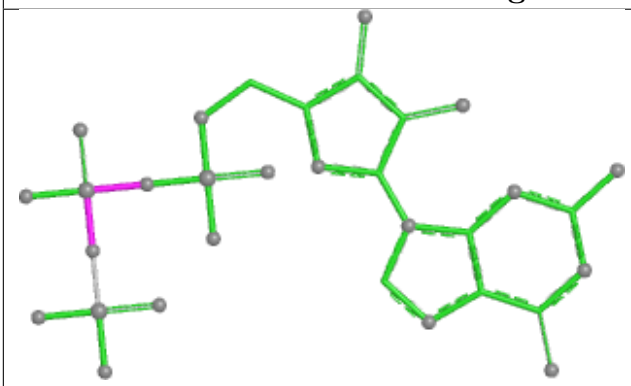


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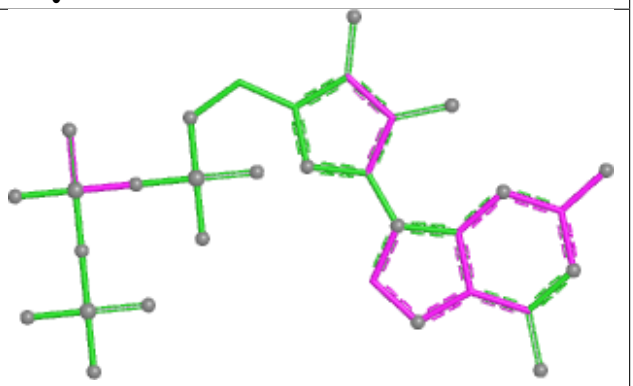


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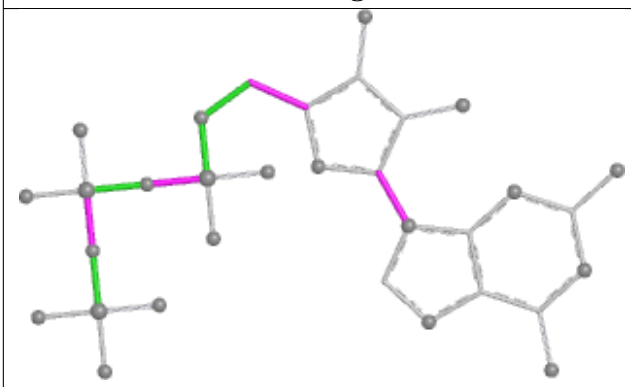
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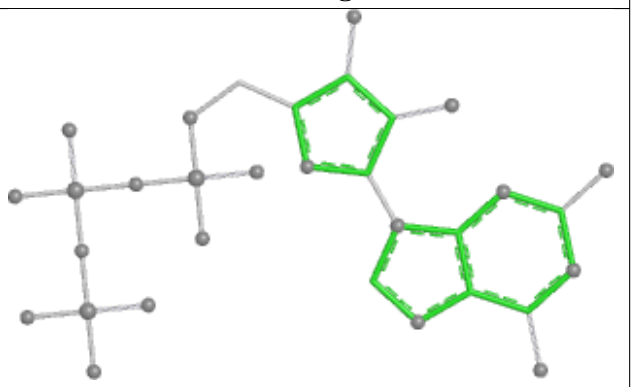
Bond lengths



Bond angles

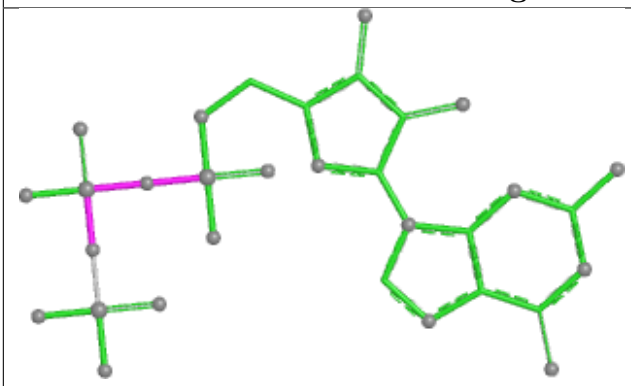


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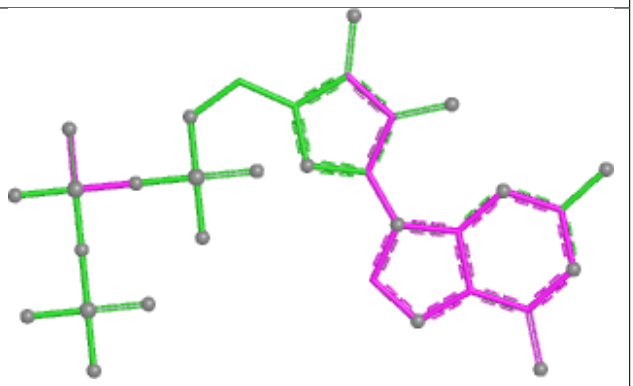


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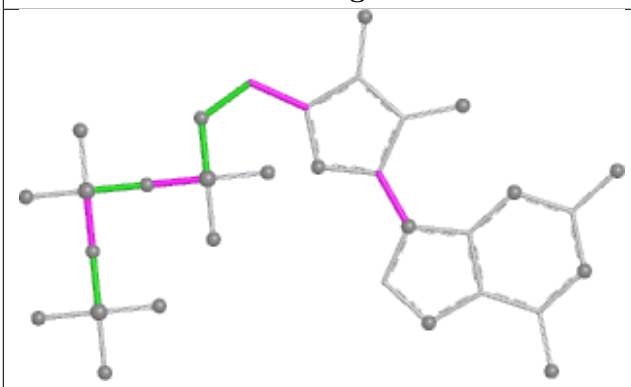
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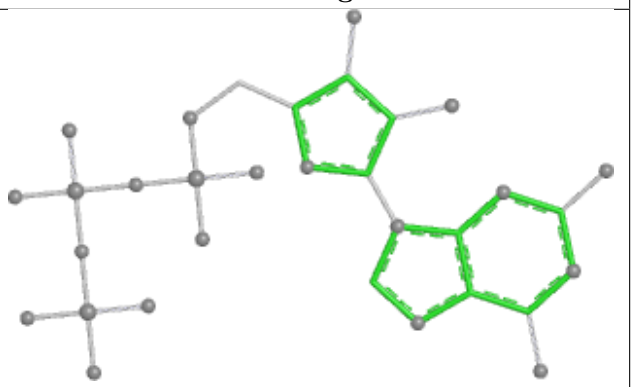
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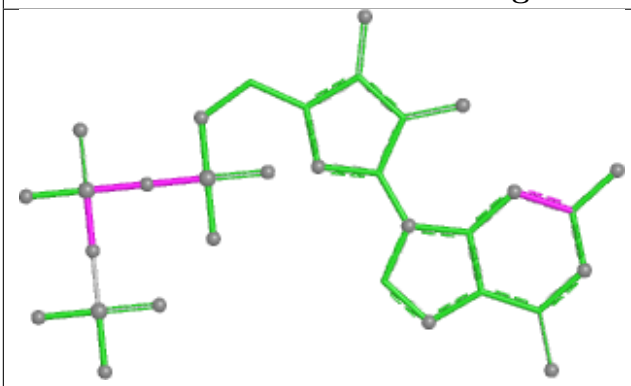


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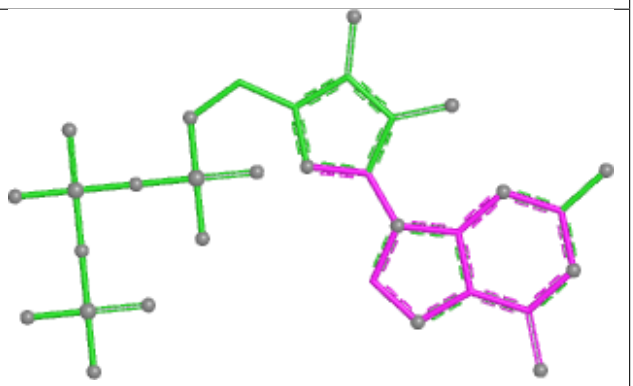


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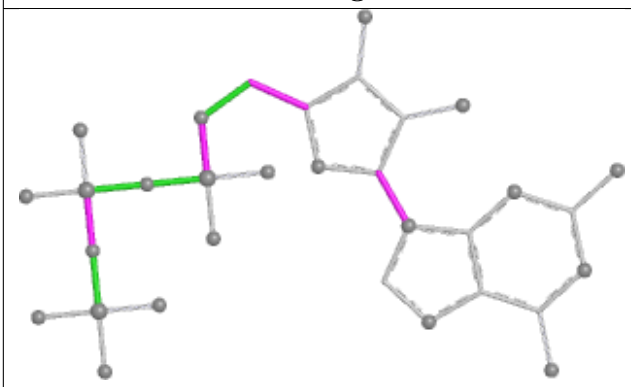
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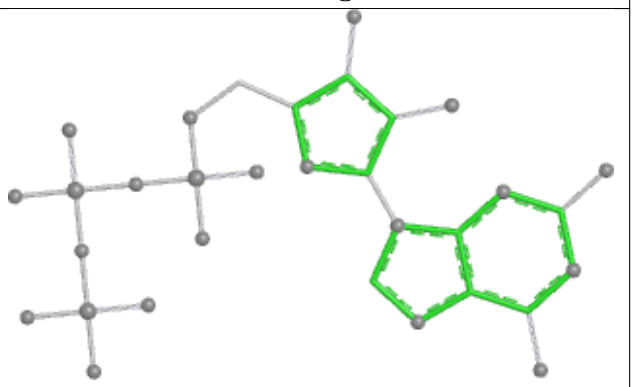
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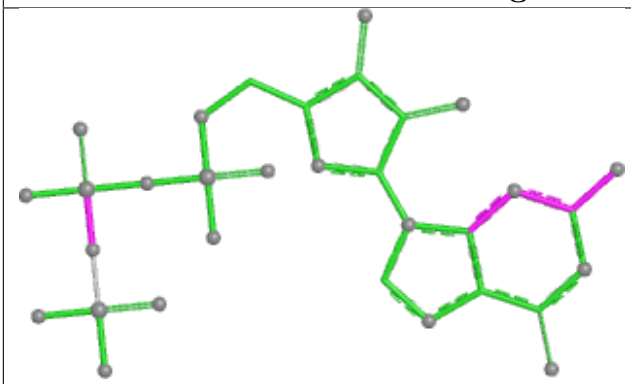


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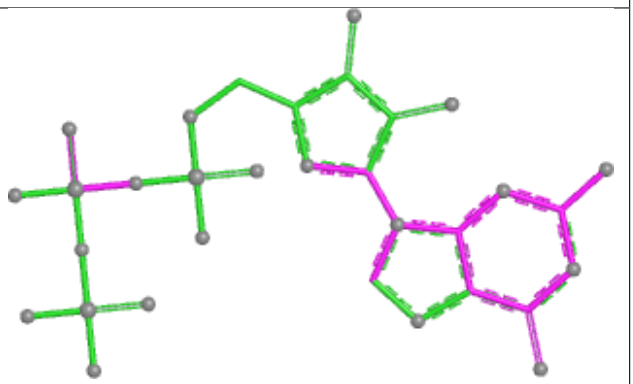


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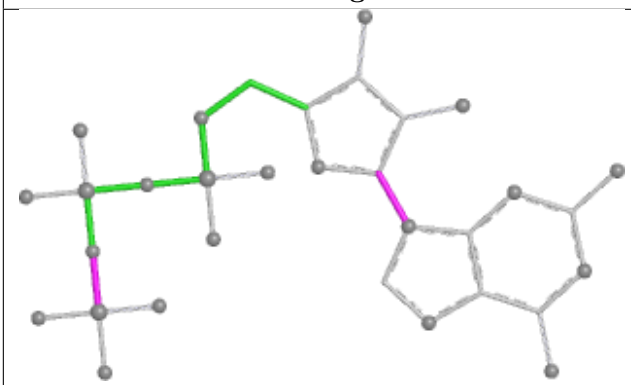
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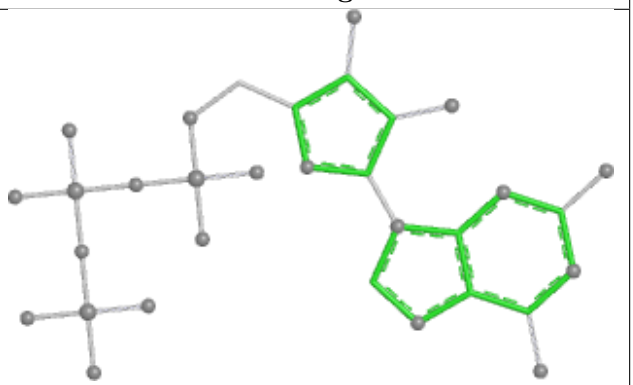
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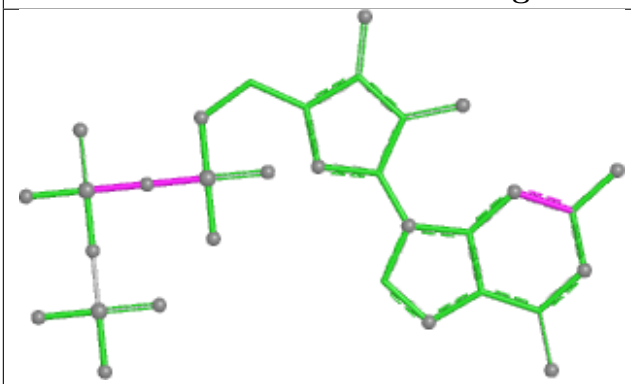


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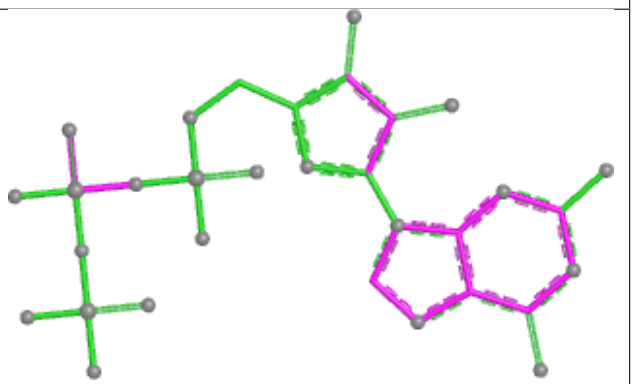


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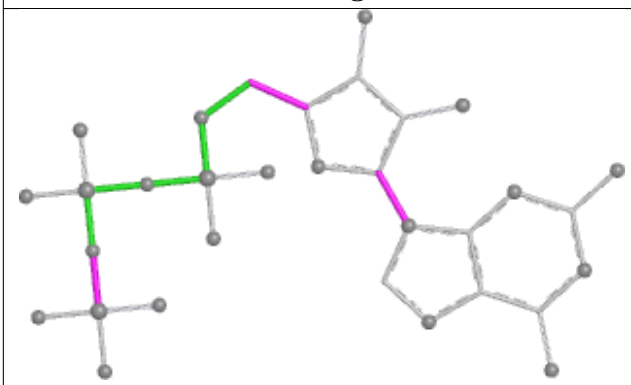
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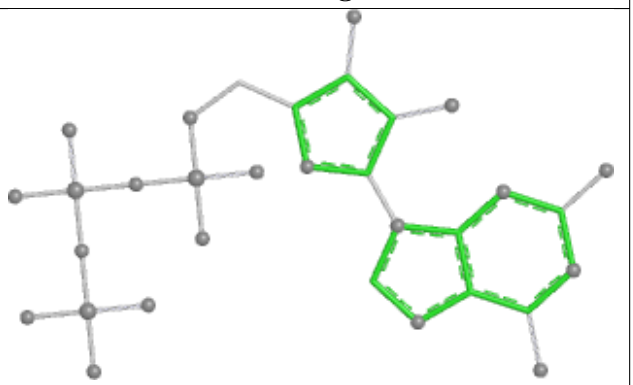
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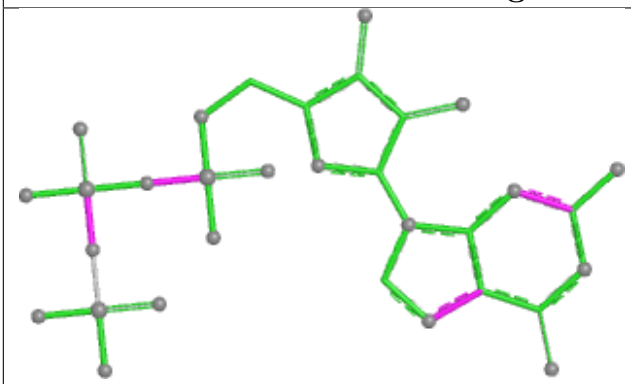


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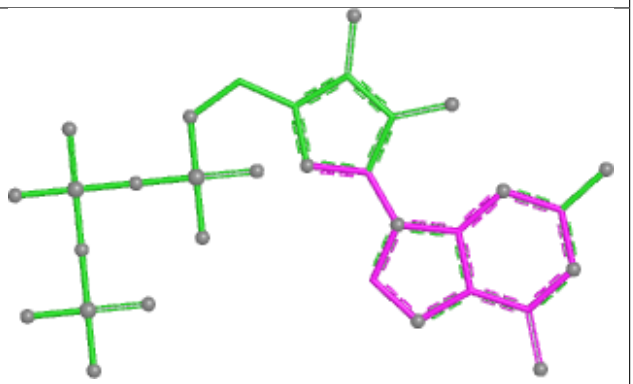


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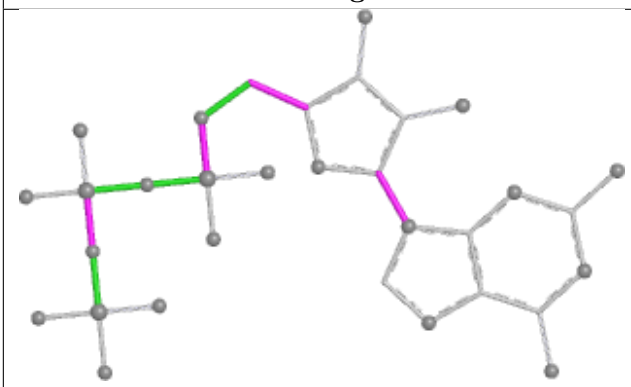
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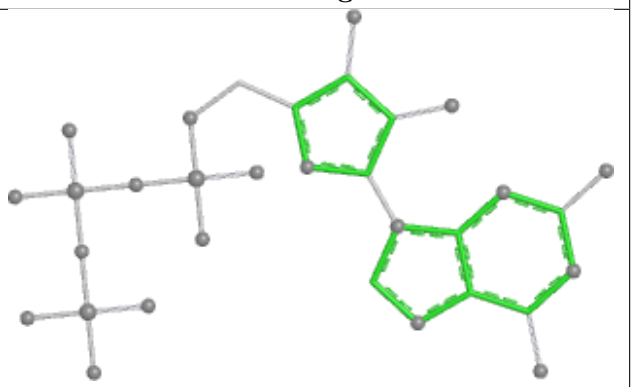
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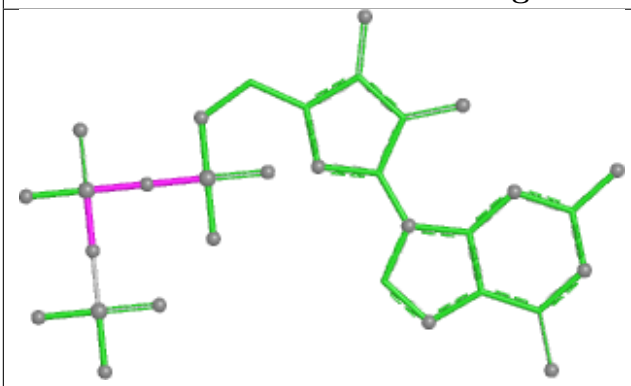


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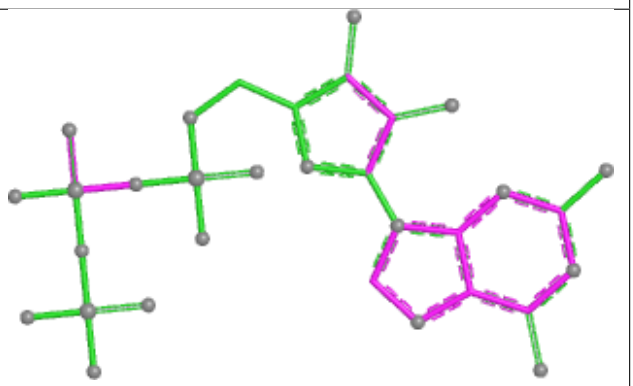


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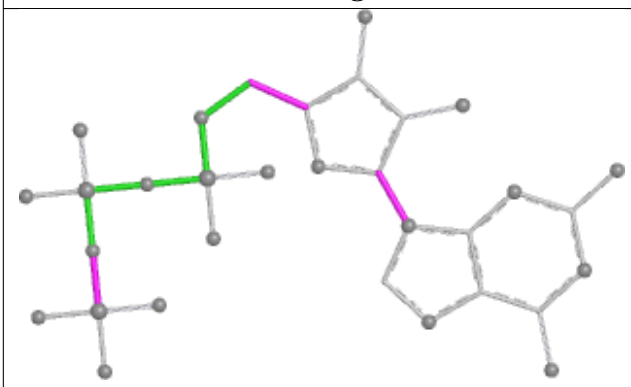
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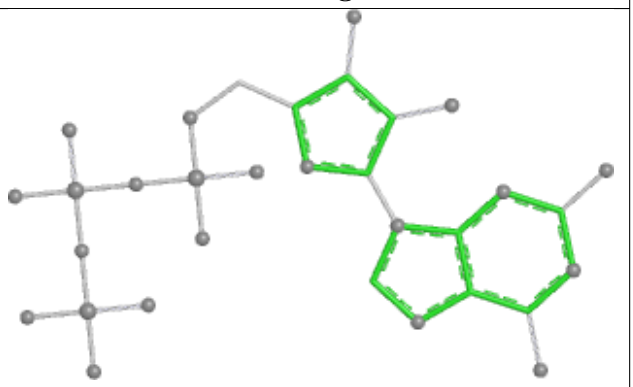
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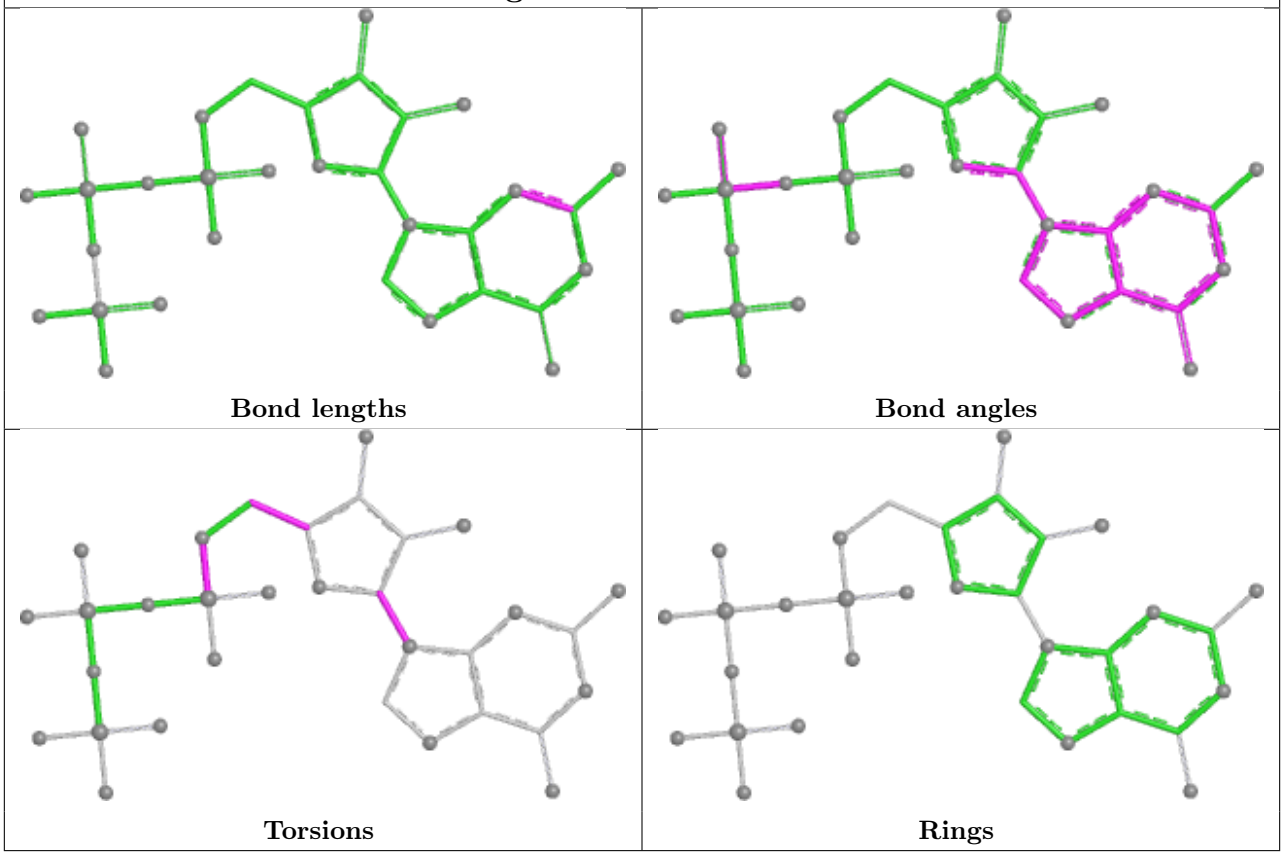


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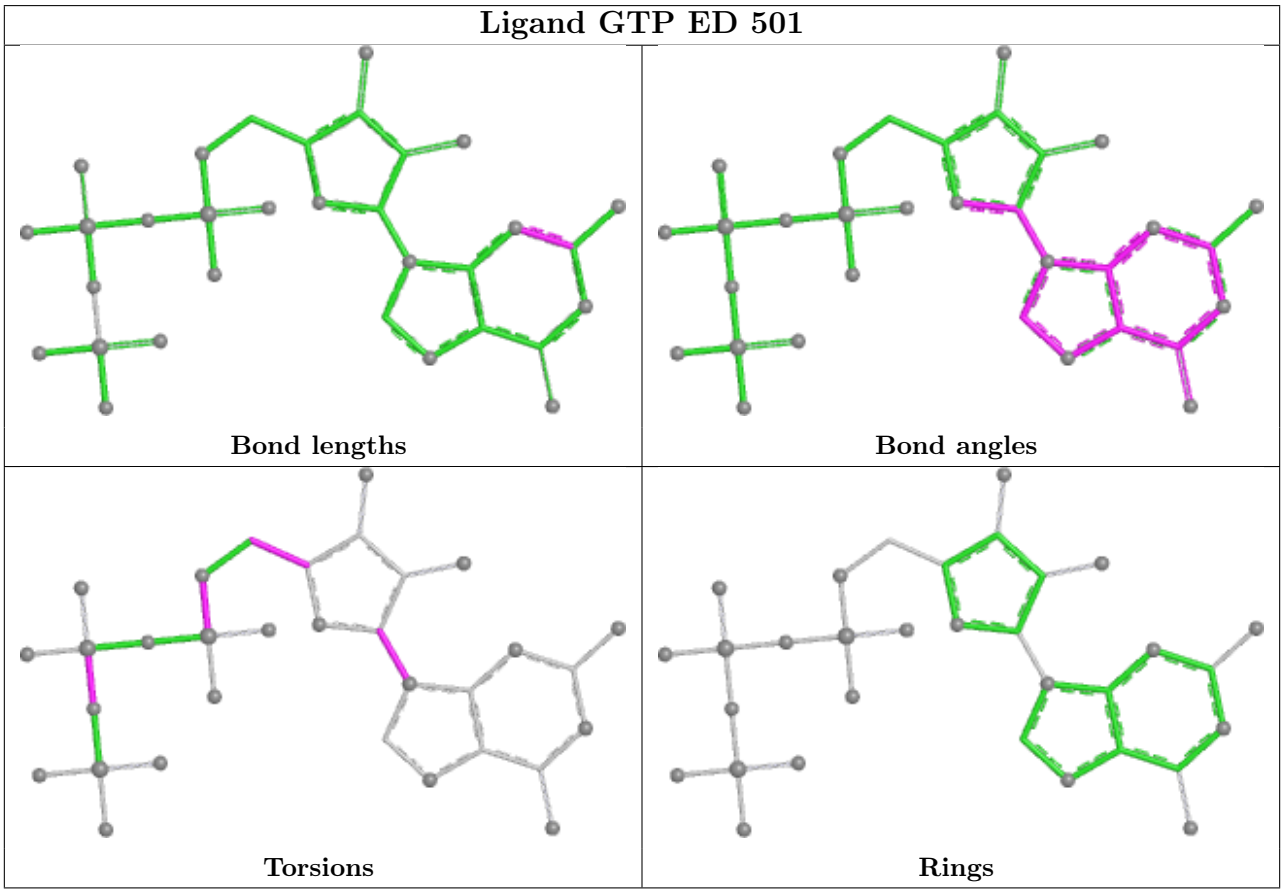


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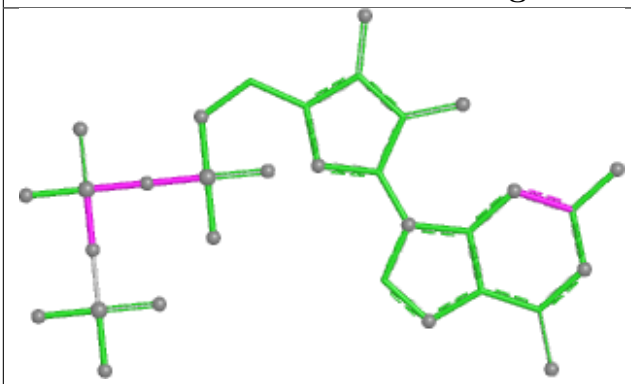
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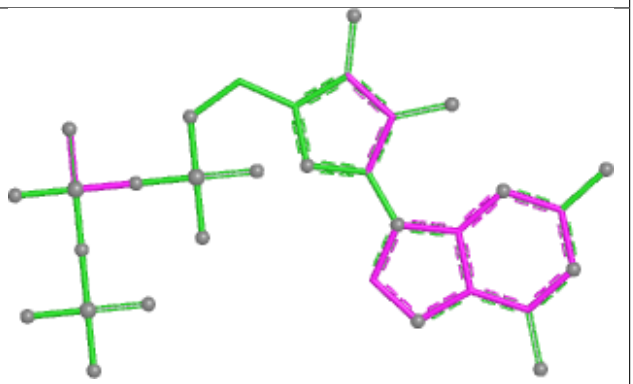
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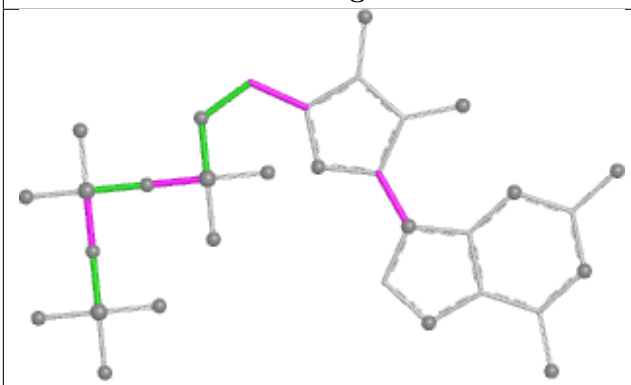
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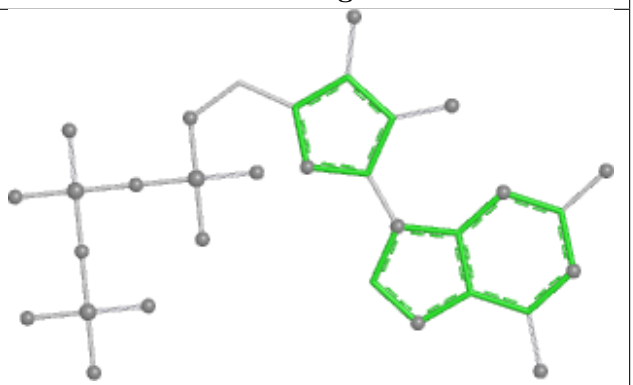
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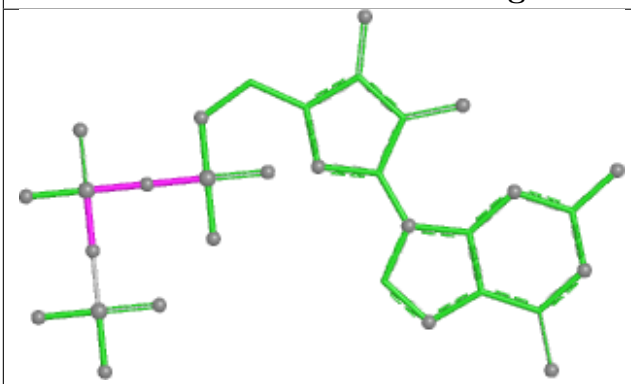


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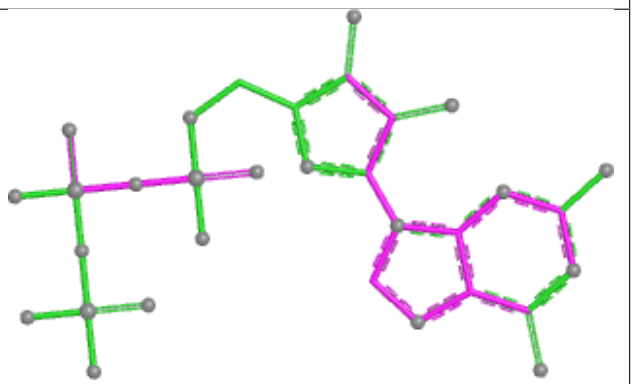


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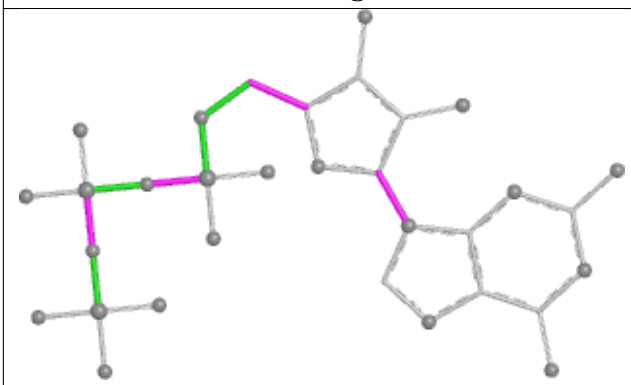
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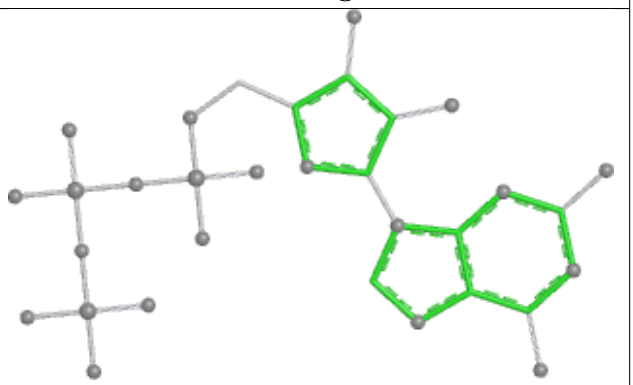
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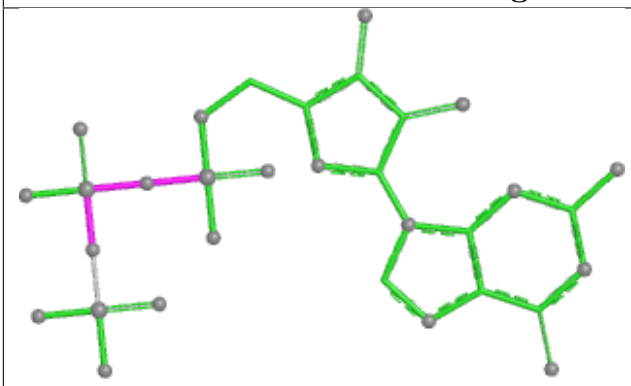


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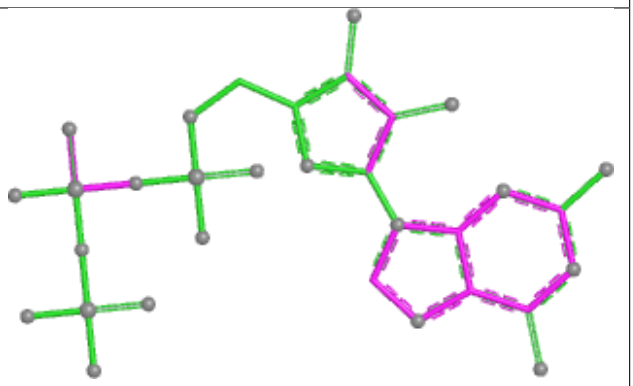


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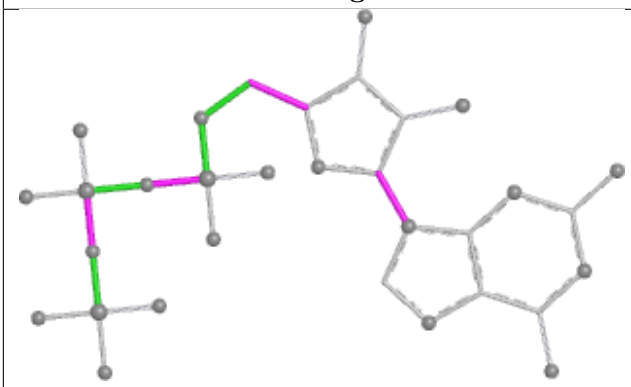
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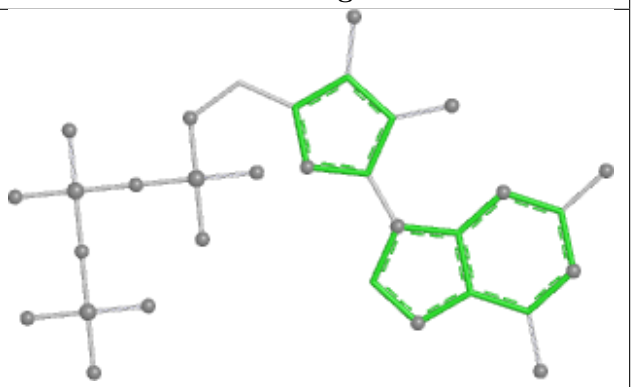
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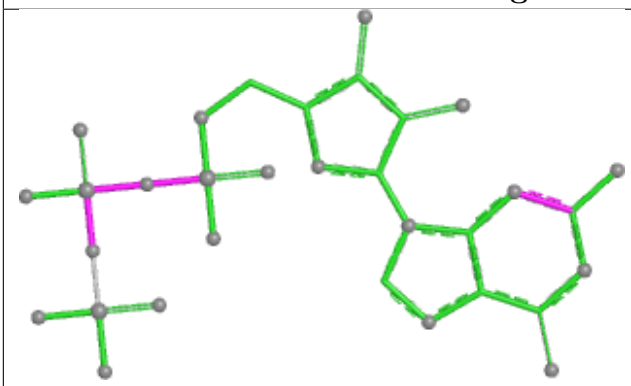


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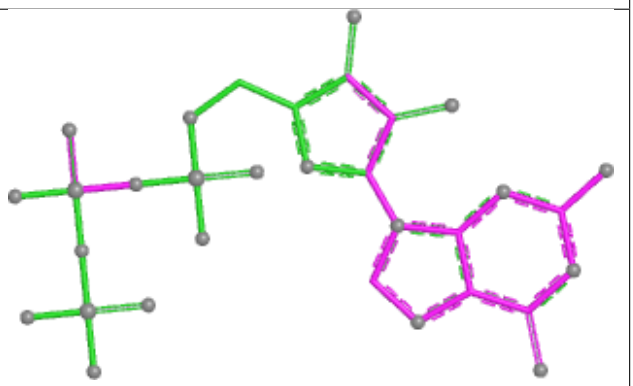


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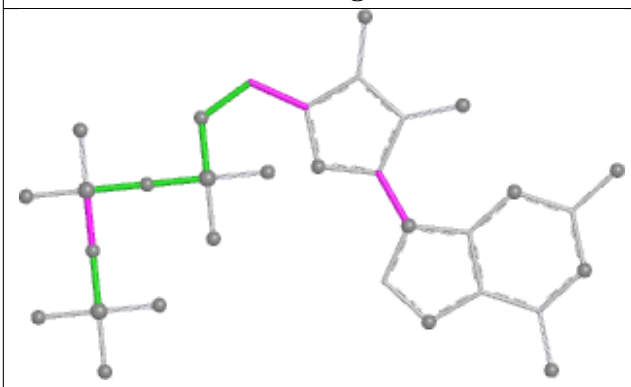
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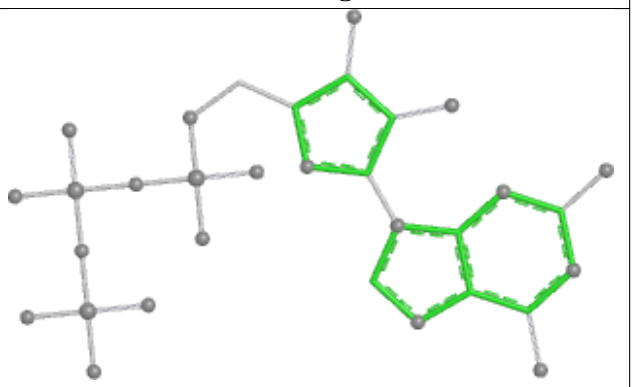
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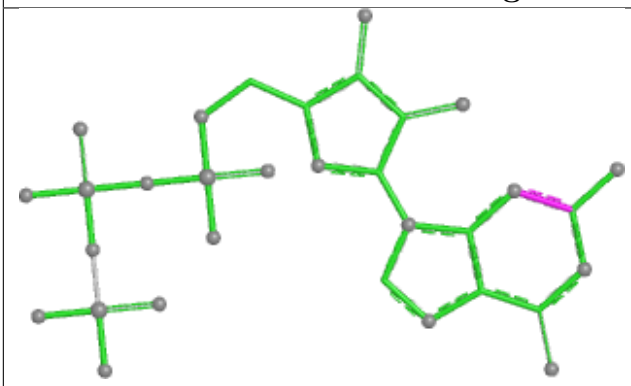


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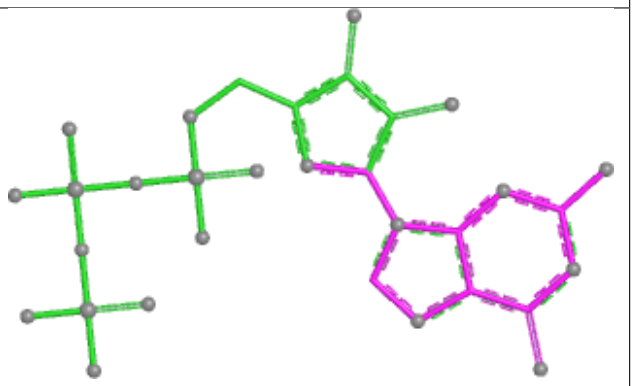


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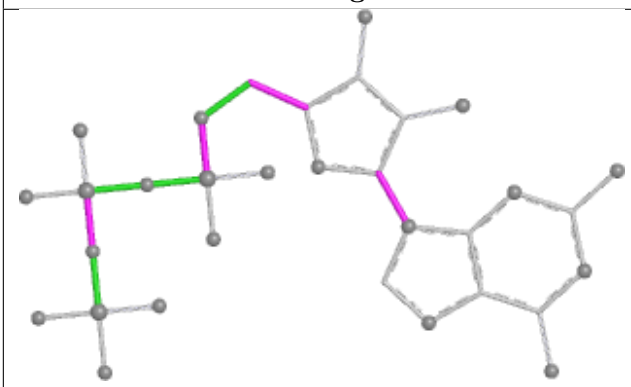
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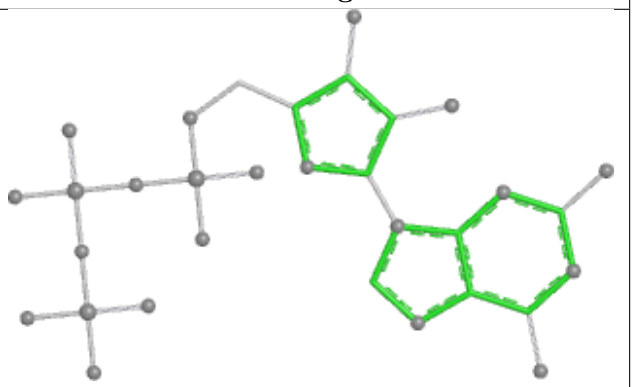
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Bond angles

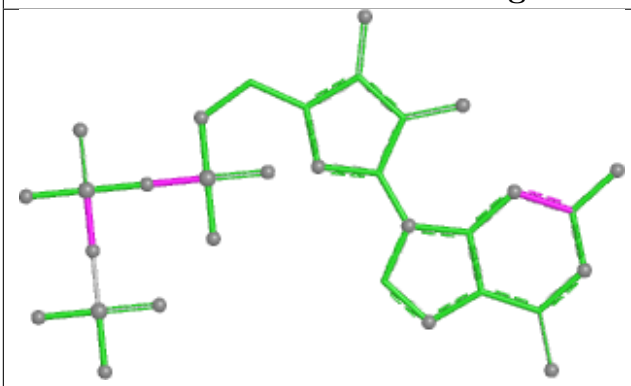


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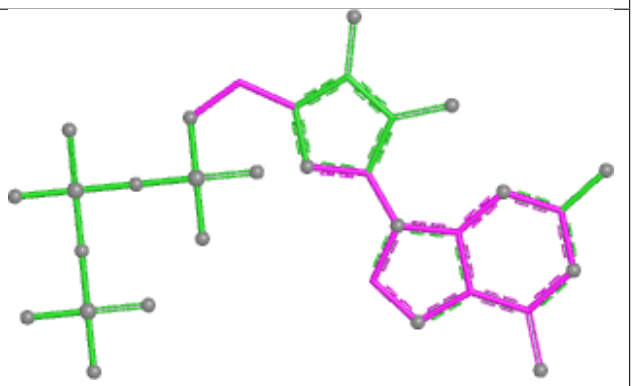


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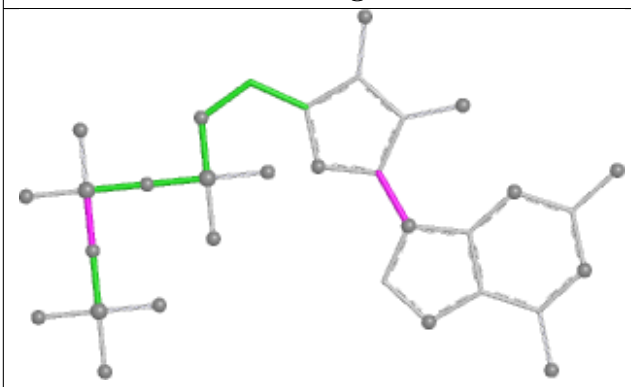
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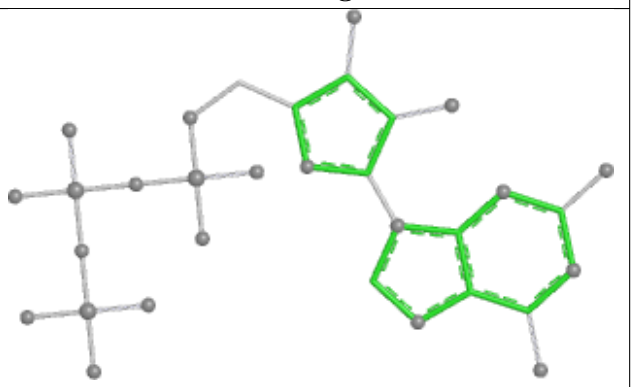
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Bond angles

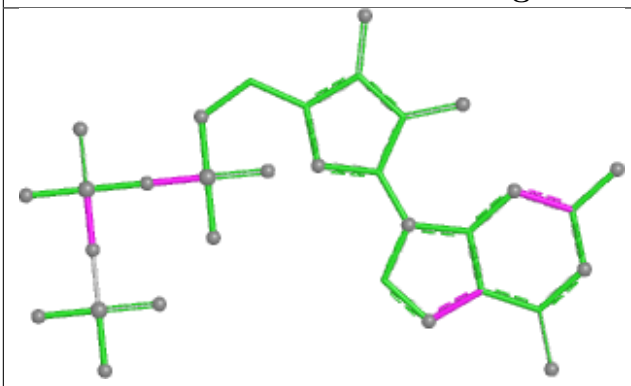


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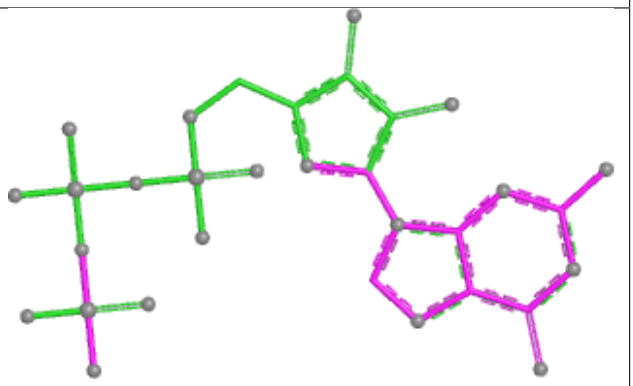


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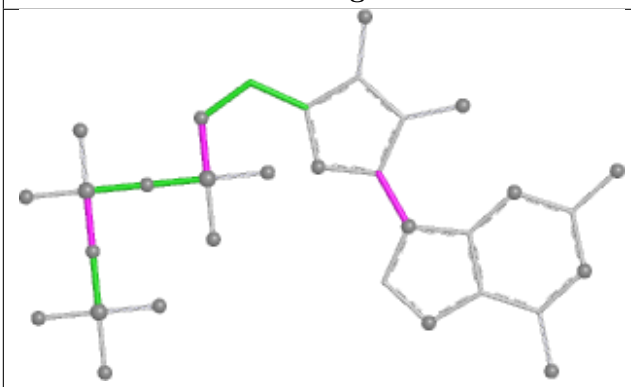
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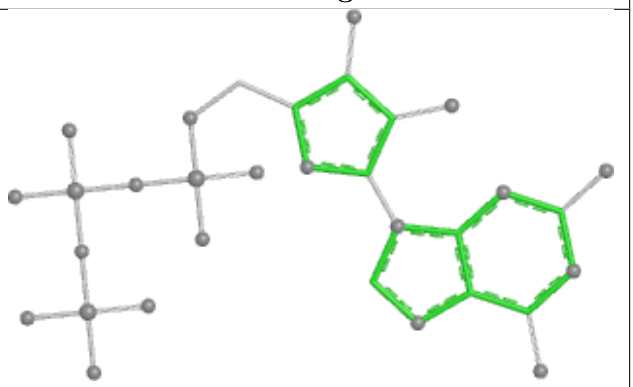
Bond lengths



Bond angles

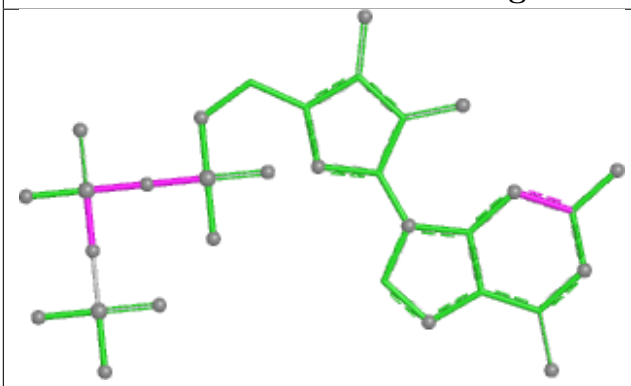


Torsions

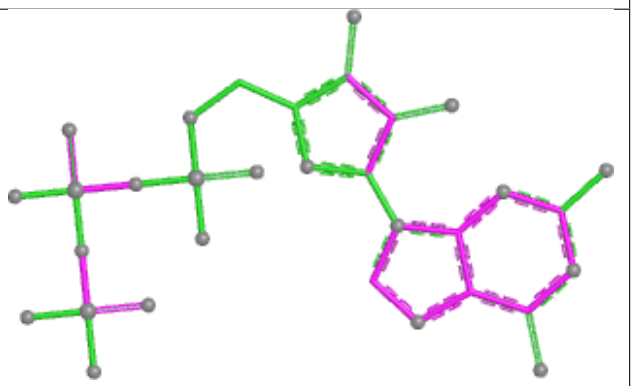


Rings

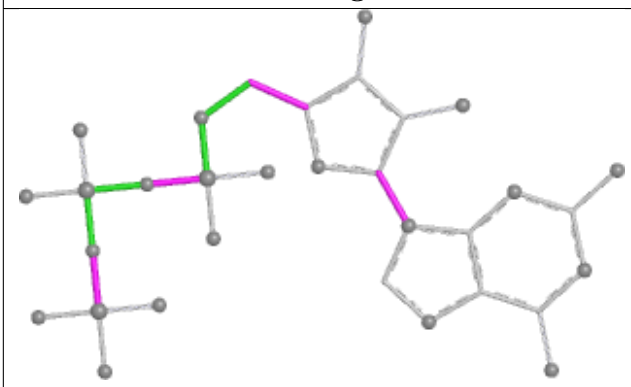
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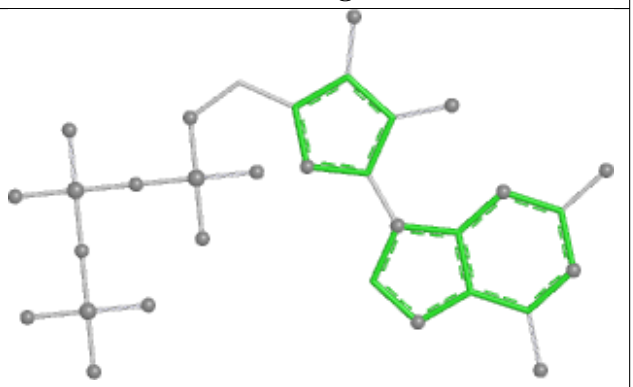
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Bond angles

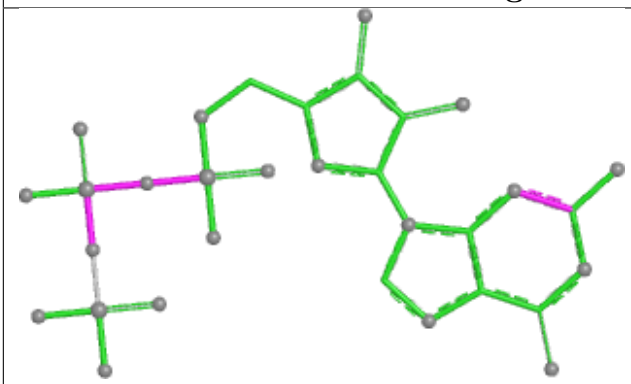


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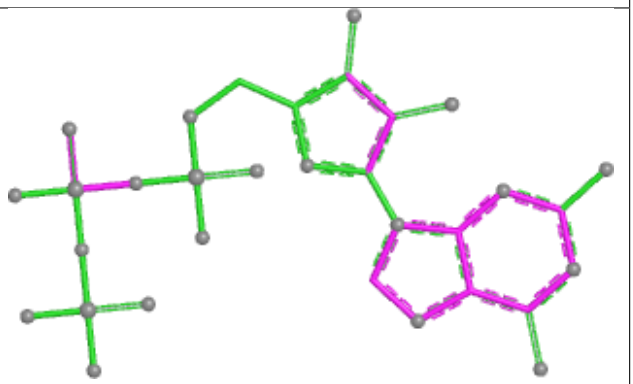


Rings

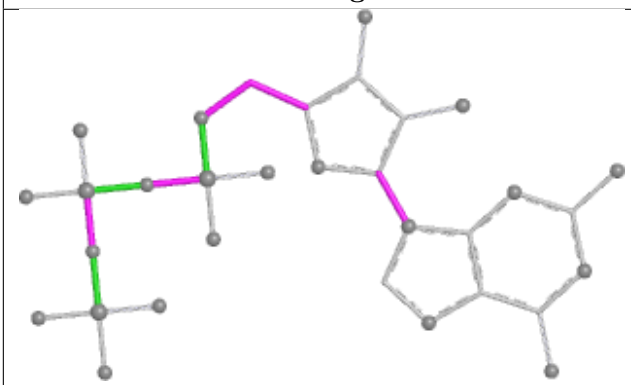
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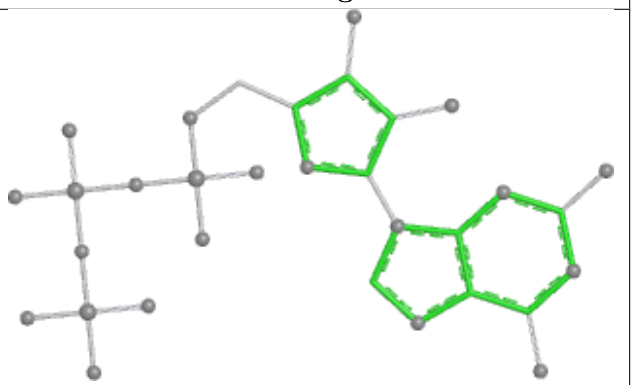
Bond lengths



Bond angles

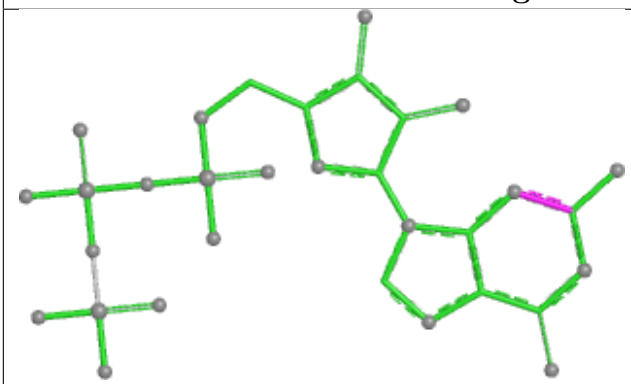


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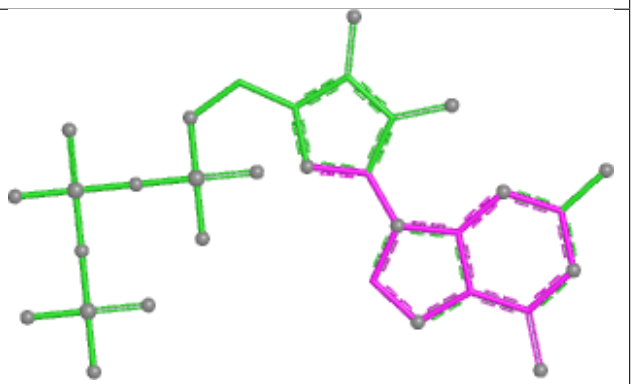


Rings

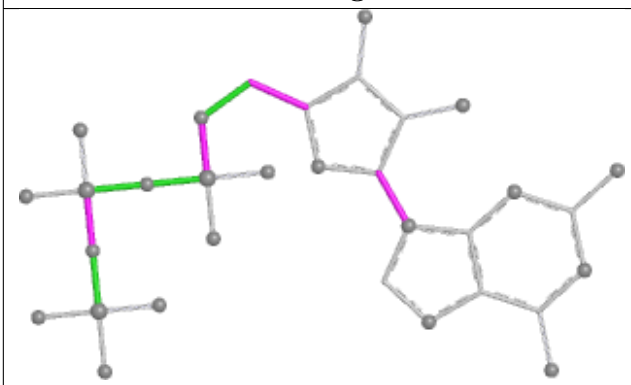
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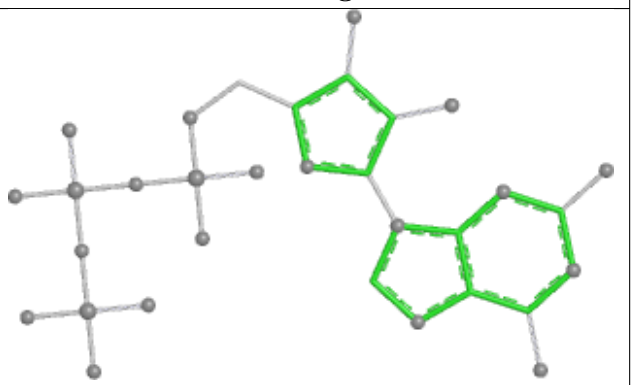
Bond lengths



Bond angles

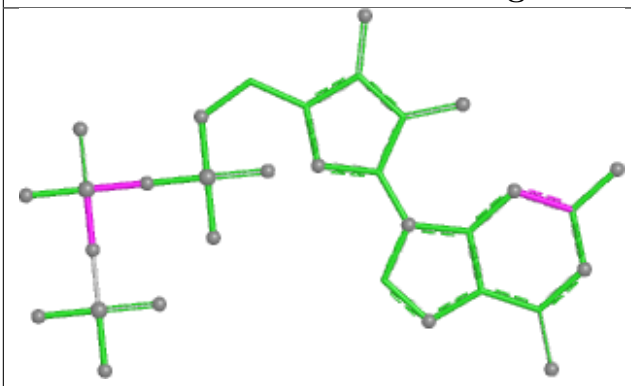


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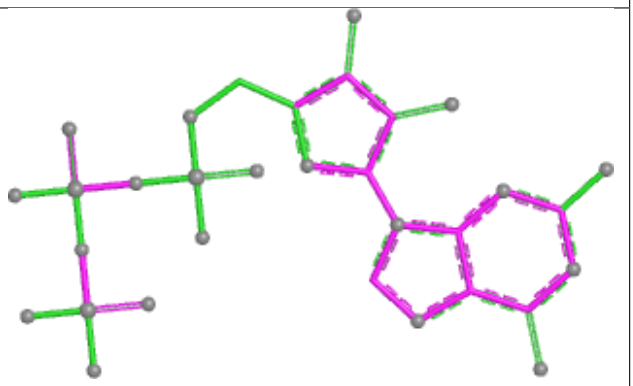


Rings

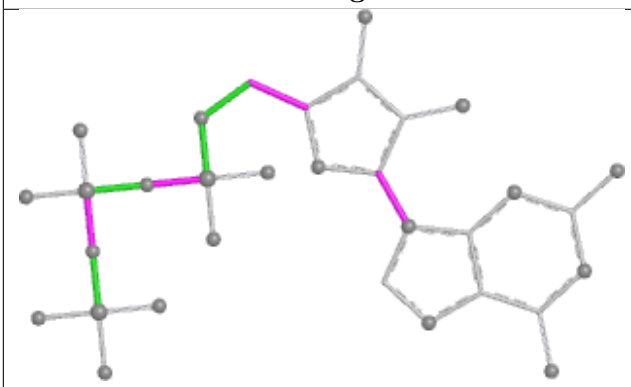
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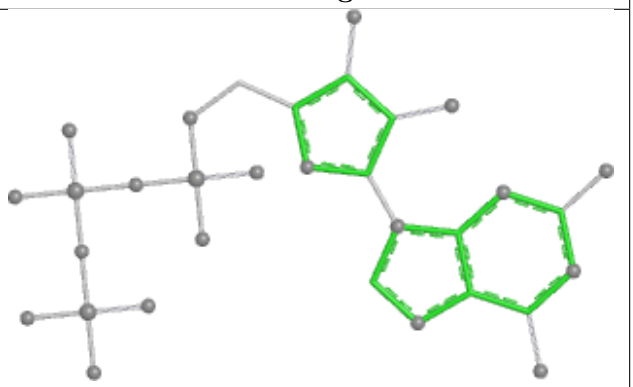
Bond lengths



Bond angles

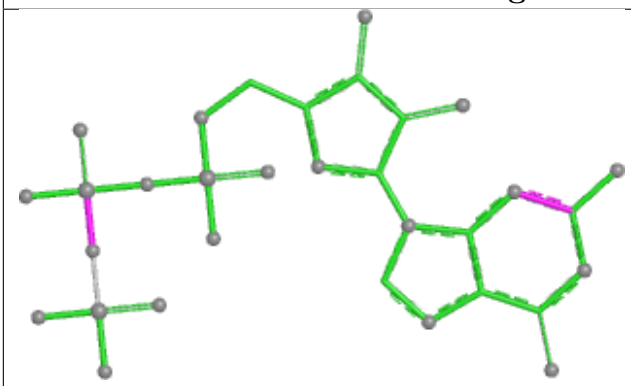


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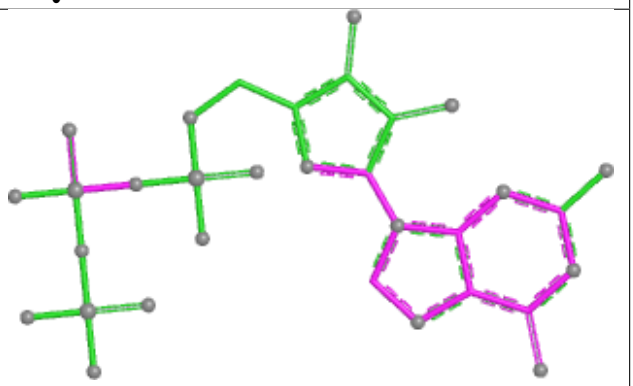


Rings

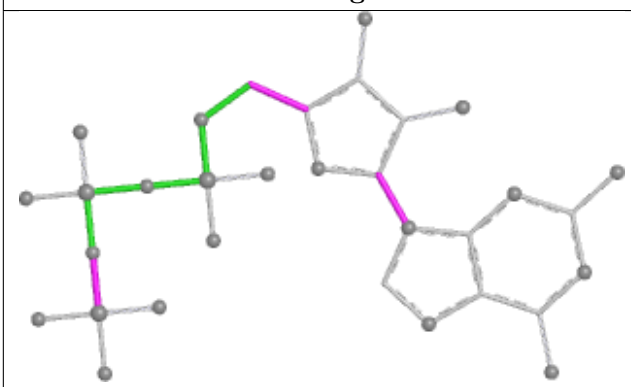
Ligand GTP QH 501



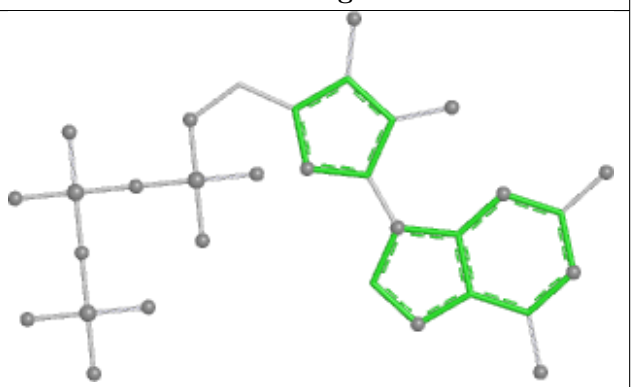
Bond lengths



Bond angles

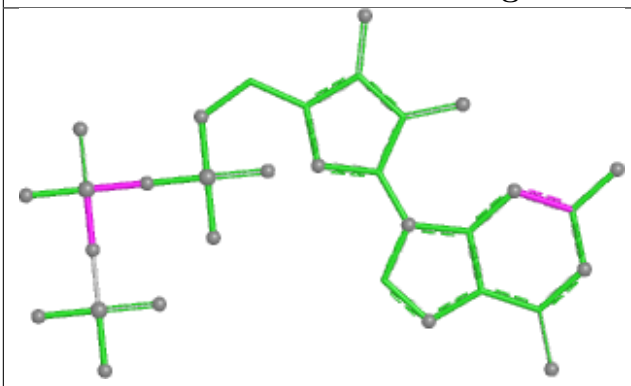


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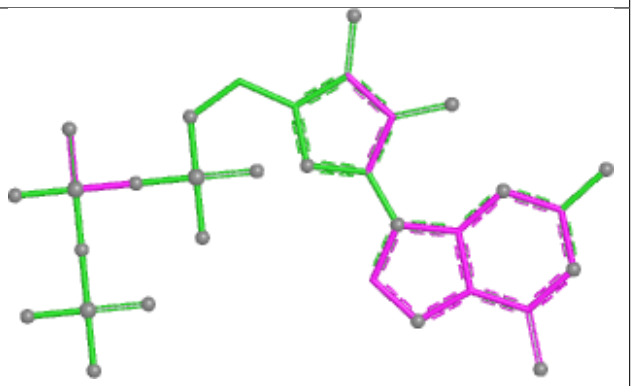


Rings

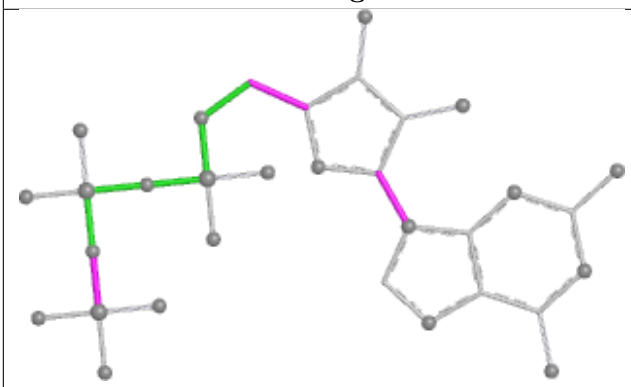
Ligand GTP MM 501



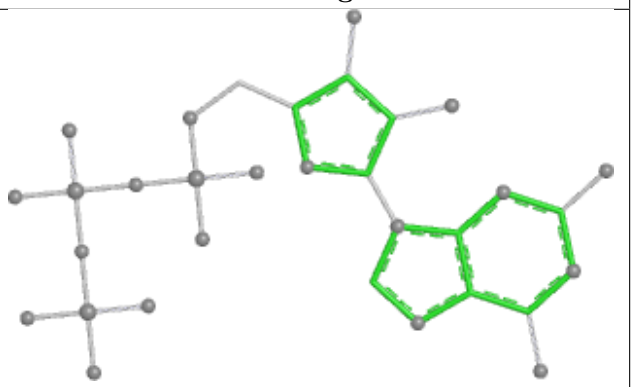
Bond lengths



Bond angles

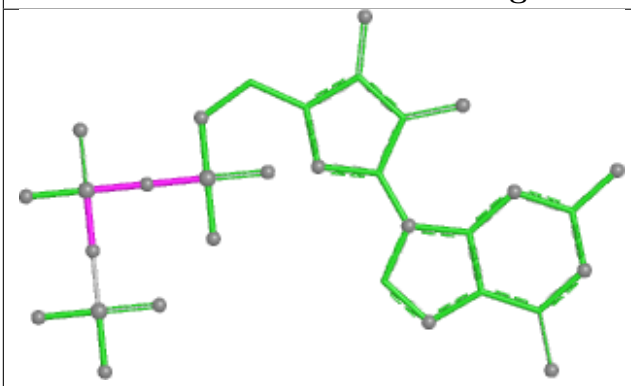


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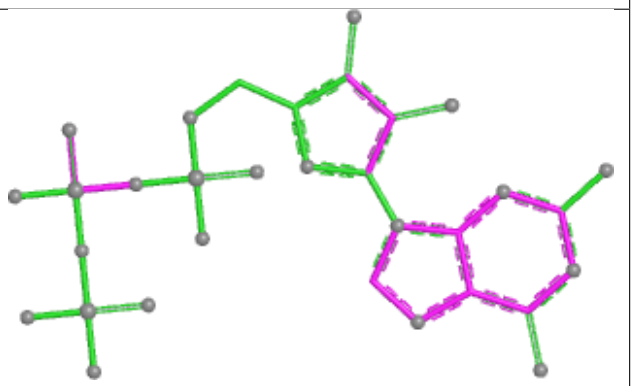


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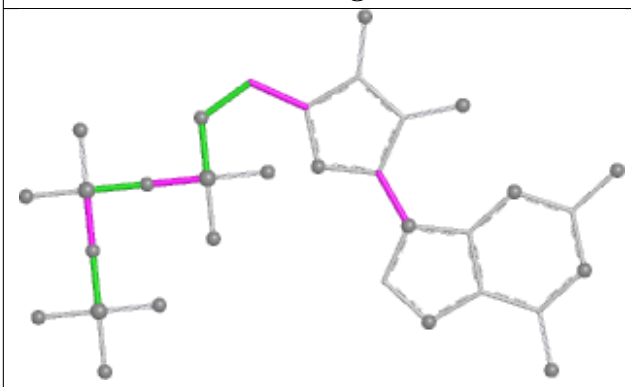
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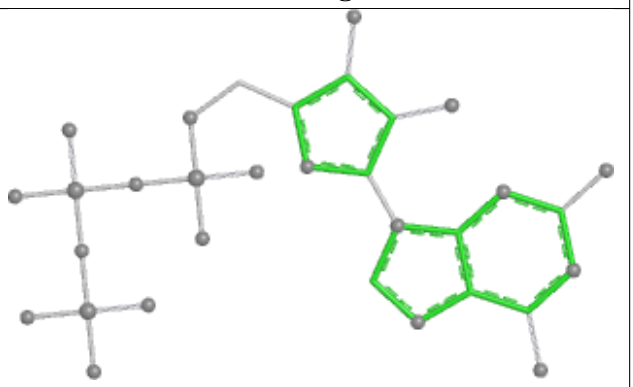
Bond lengths



Bond angles

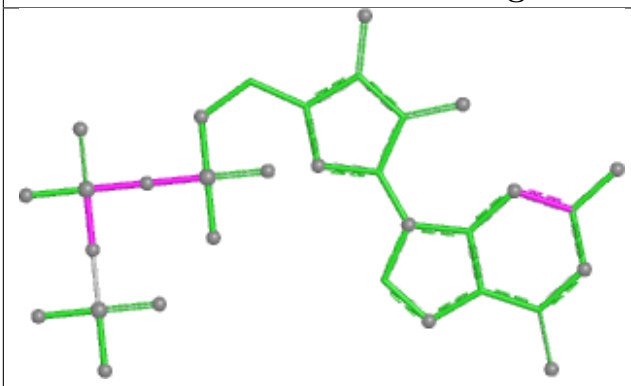


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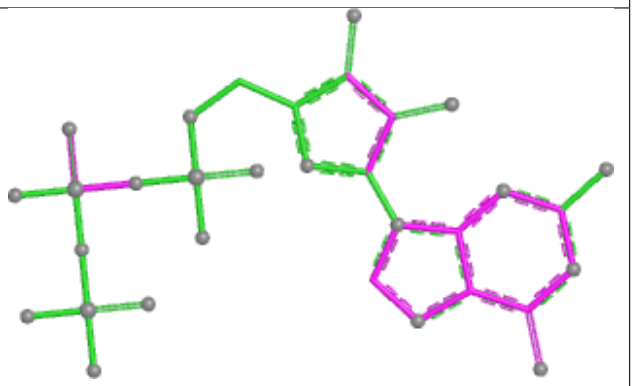


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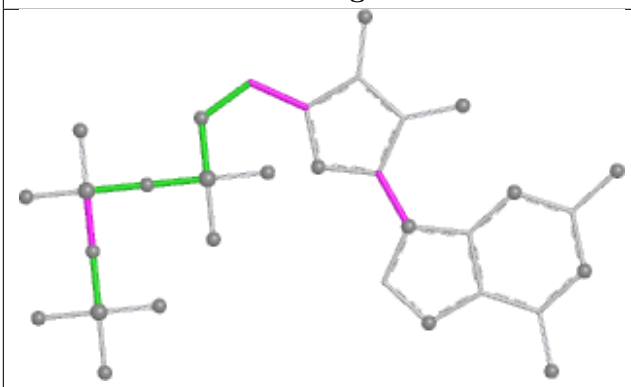
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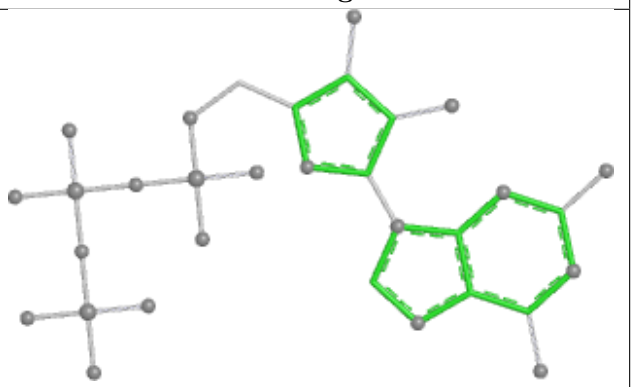
Bond lengths



Bond angles

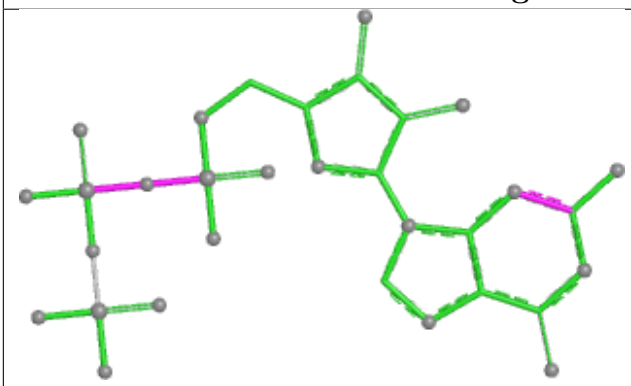


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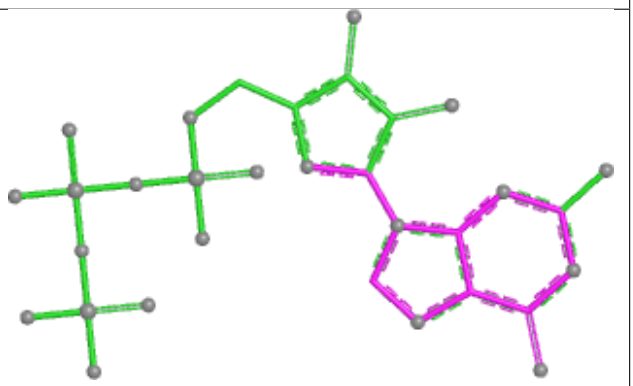


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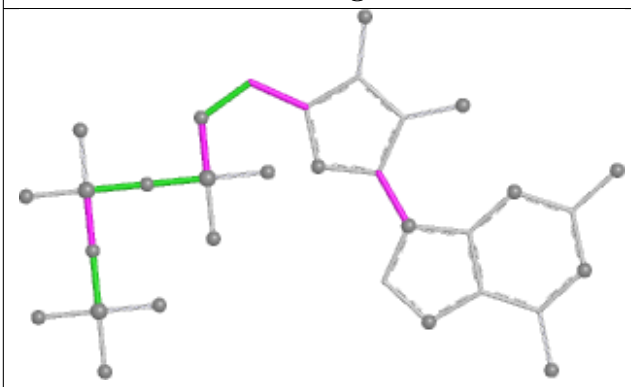
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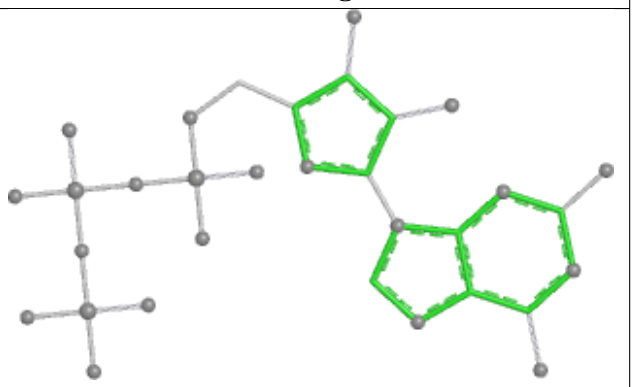
Bond lengths



Bond angles

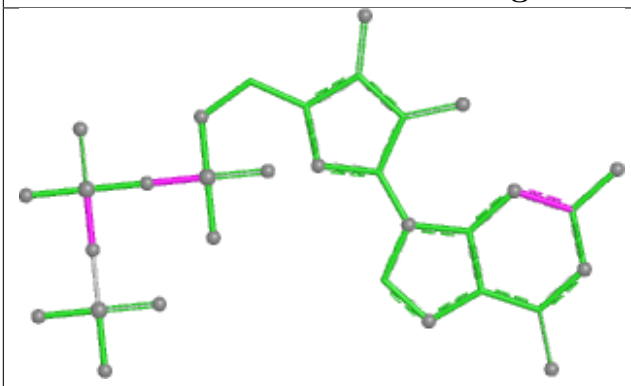


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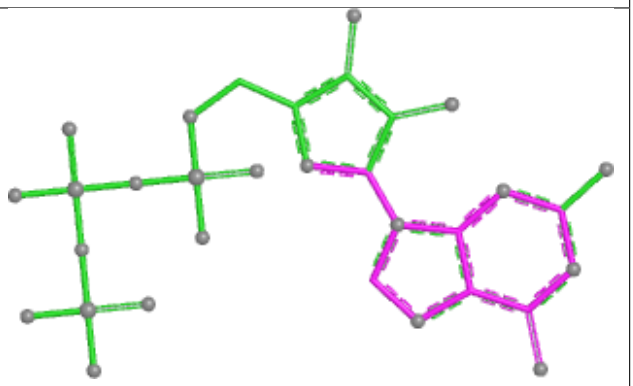


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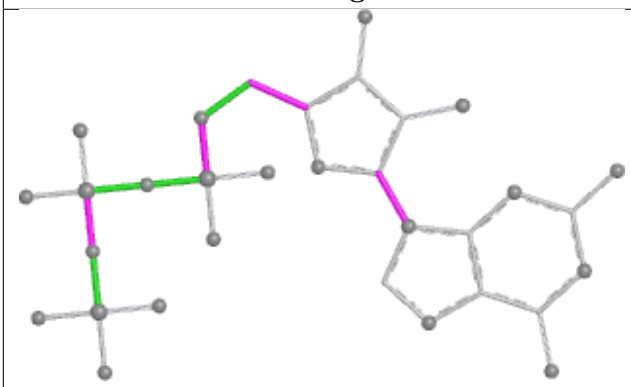
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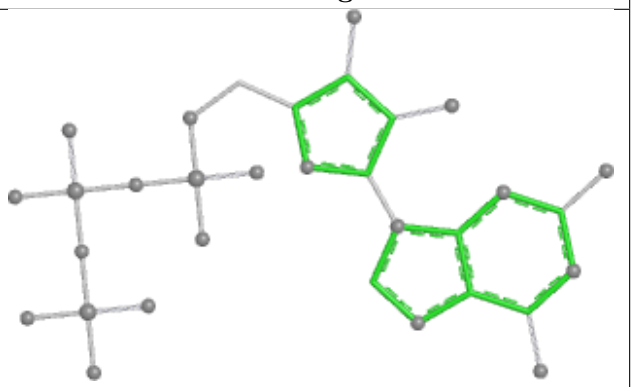
Bond lengths



Bond angles

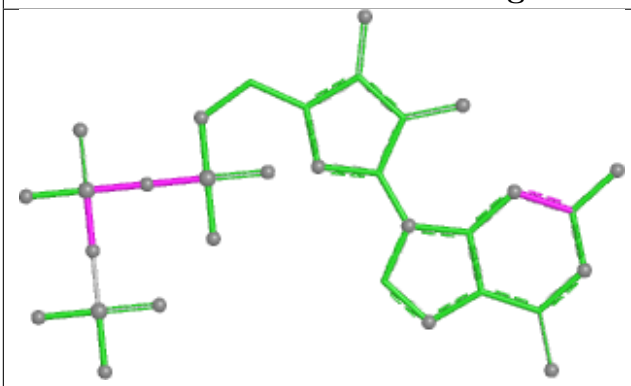


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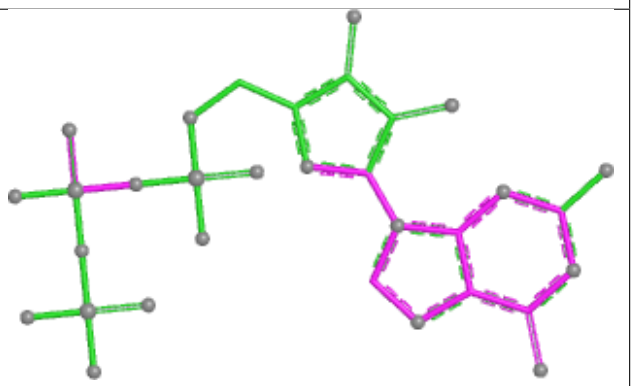


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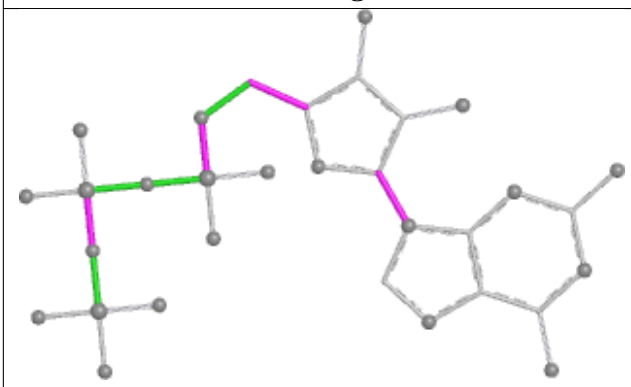
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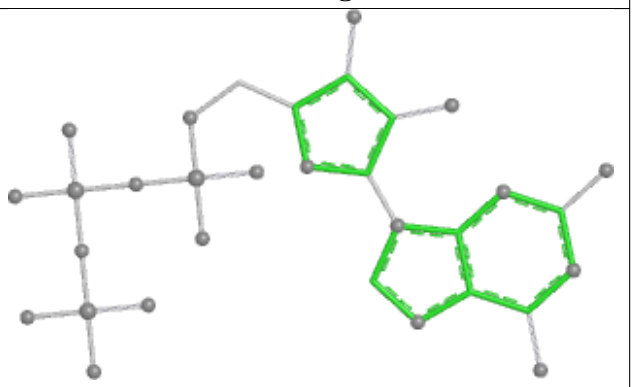
Bond lengths



Bond angles

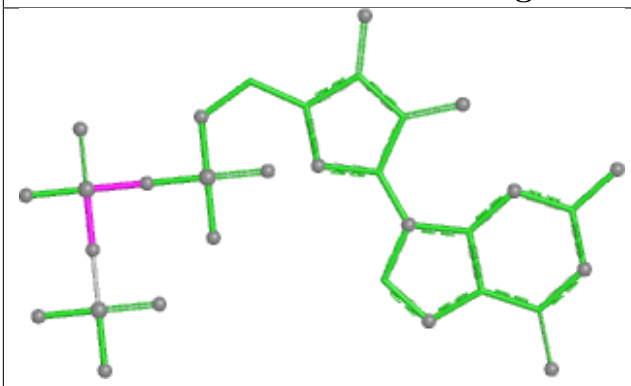


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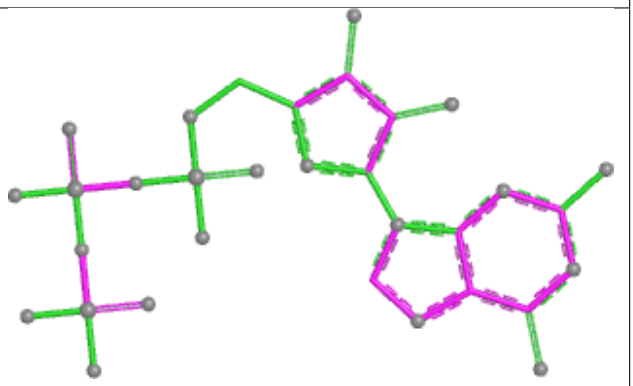


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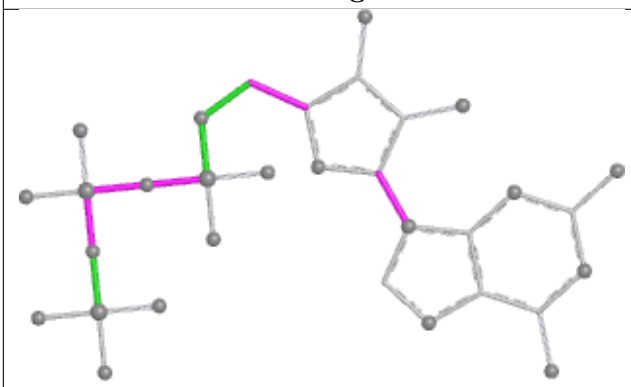
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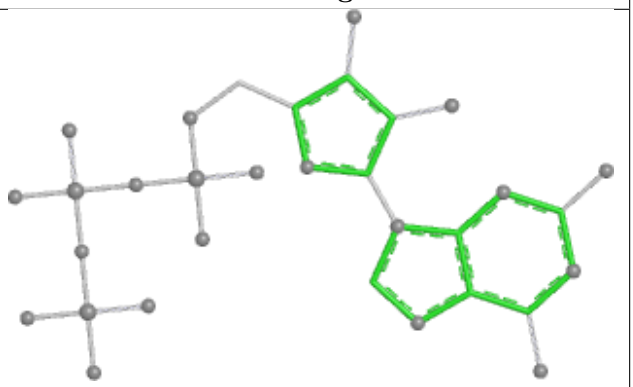
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Bond angles

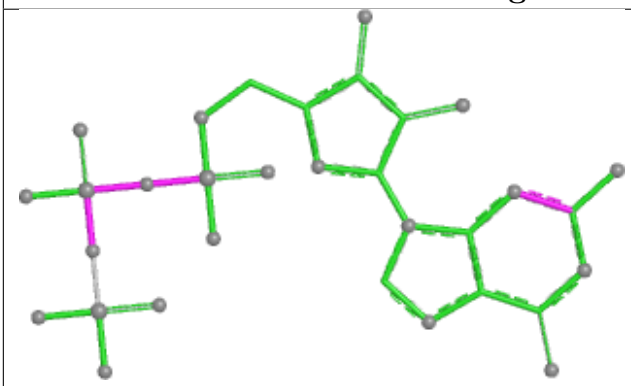


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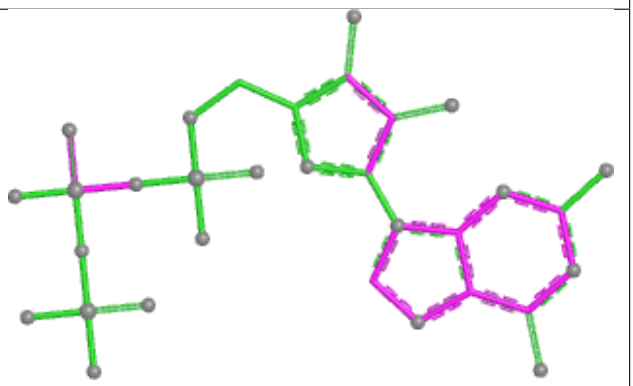


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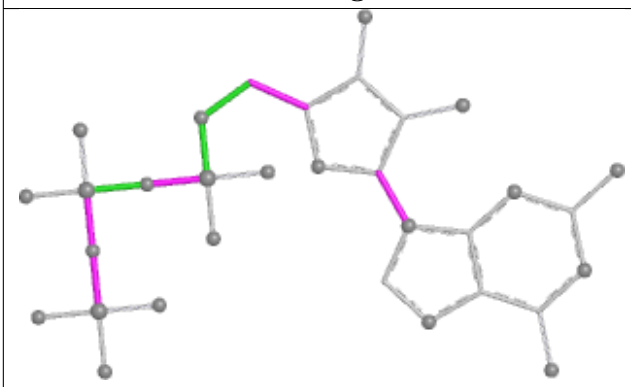
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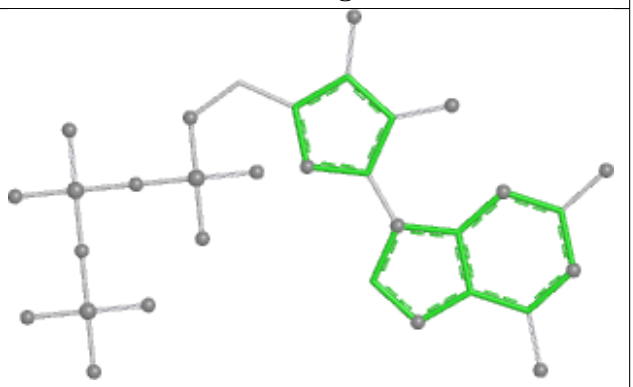
Bond lengths



Bond angles

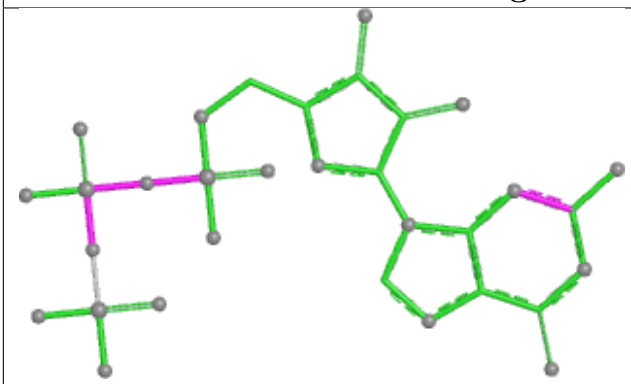


Torsions

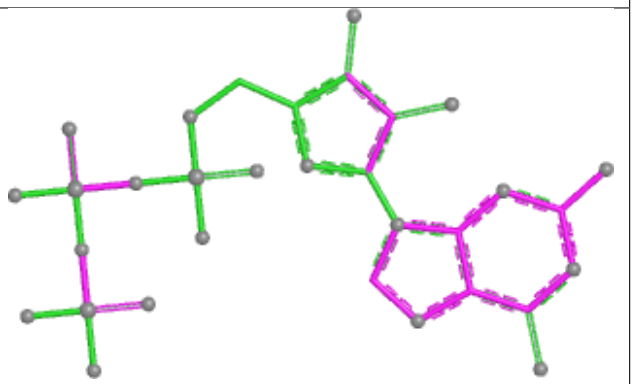


Rings

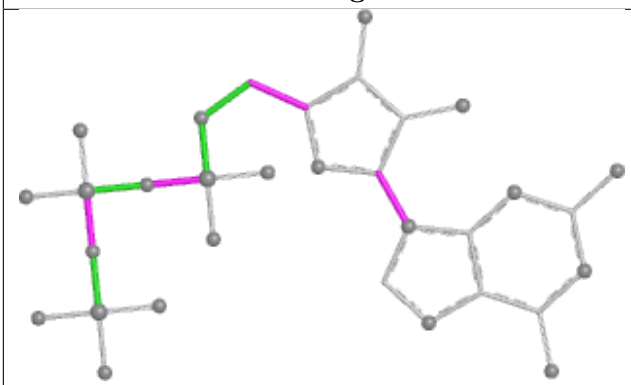
Ligand GTP HE 501



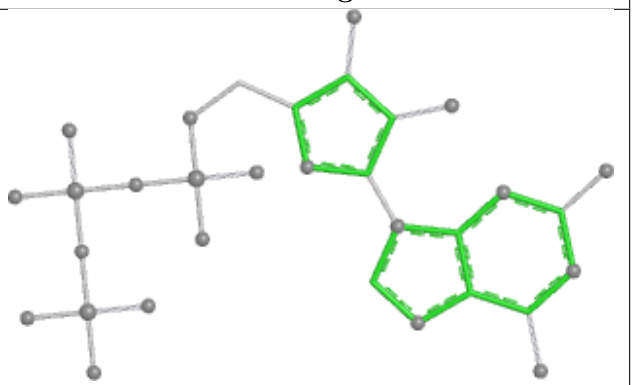
Bond lengths



Bond angles

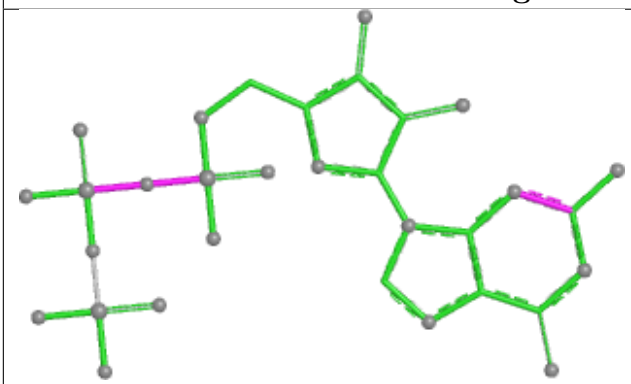


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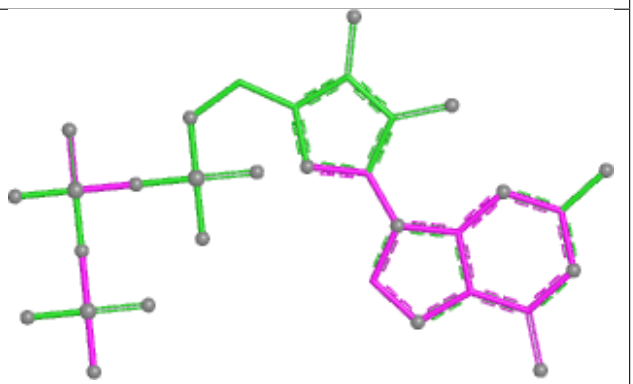


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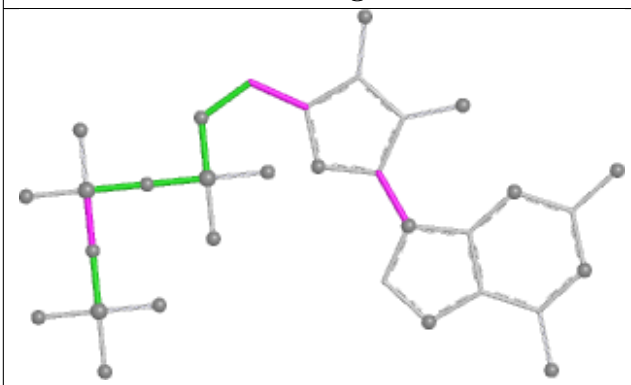
Ligand GTP AJ 501



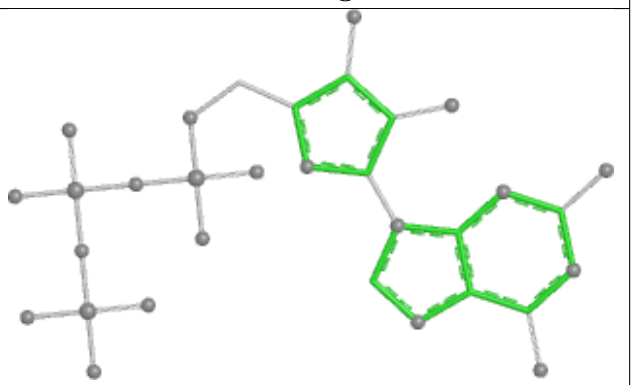
Bond lengths



Bond angles

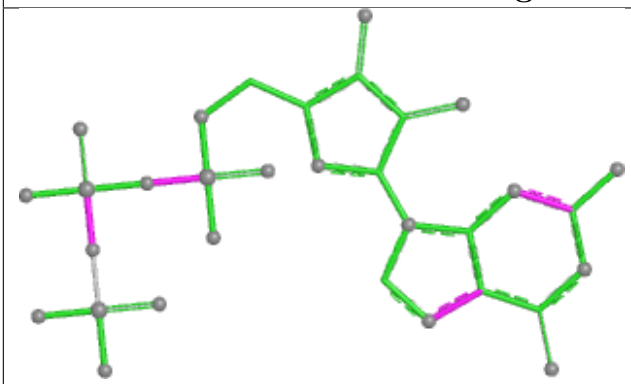


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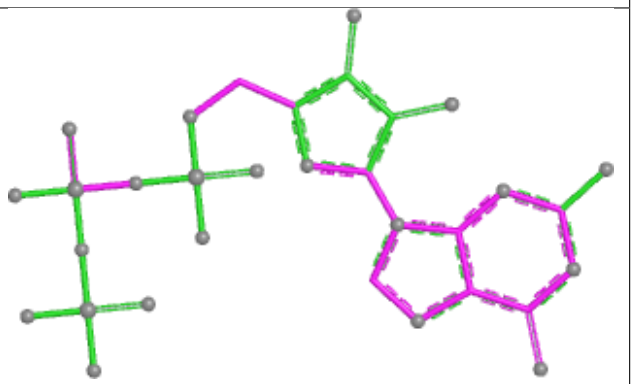


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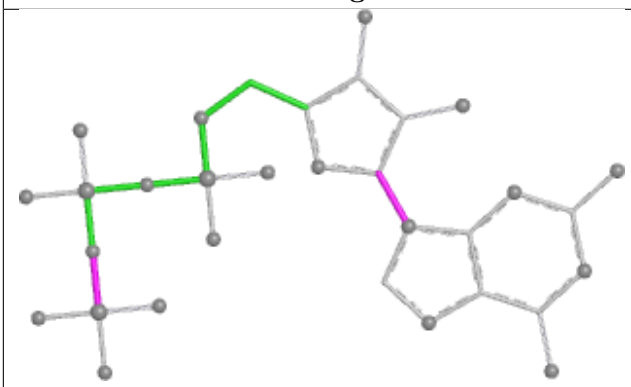
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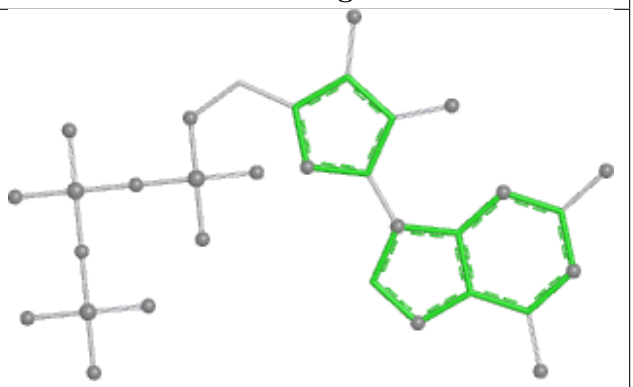
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Bond angles

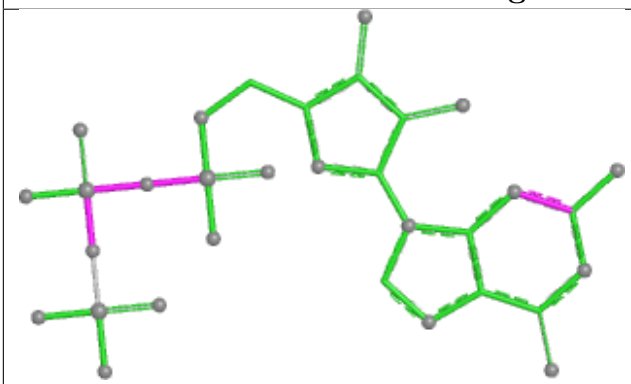


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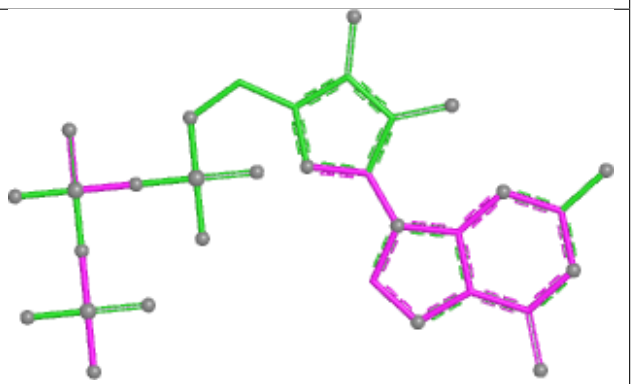


Rings

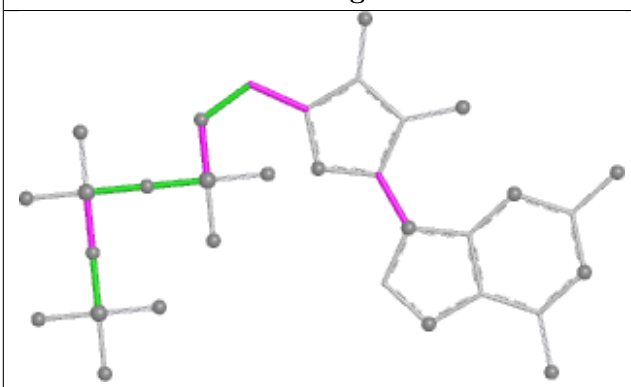
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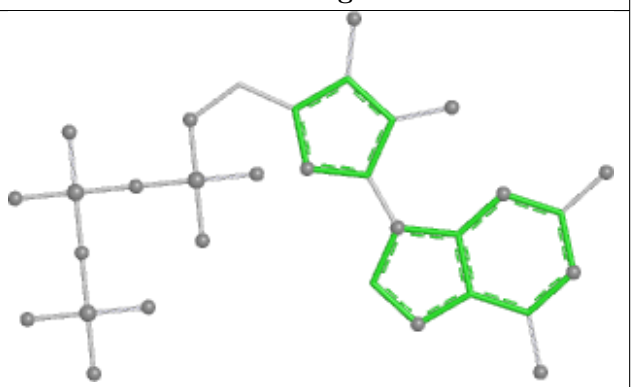
Bond lengths



Bond angles

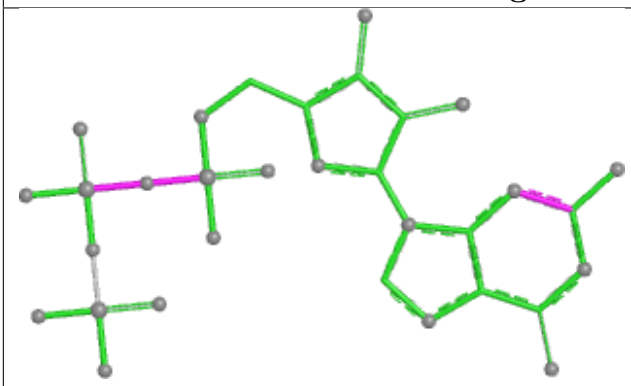


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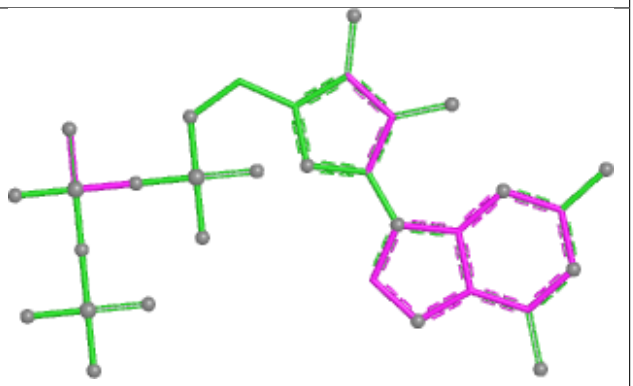


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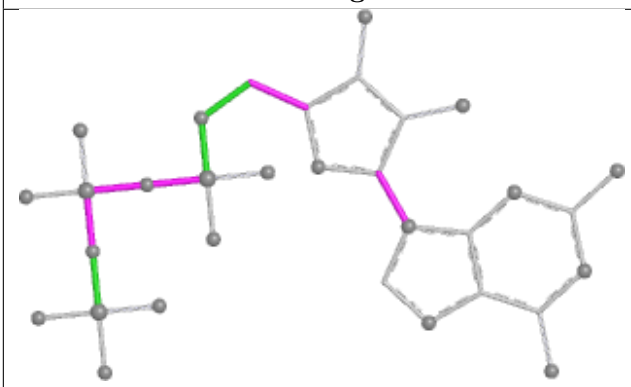
Ligand GTP AC 501



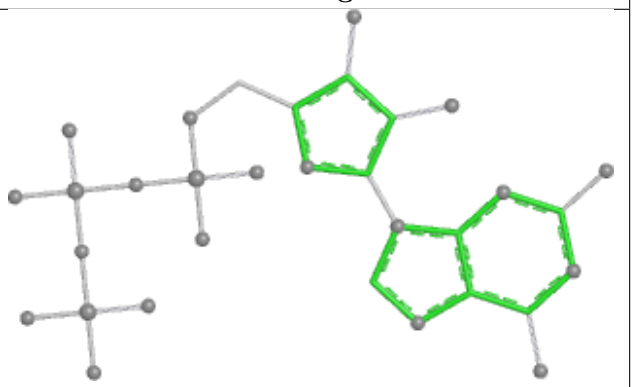
Bond lengths



Bond angles

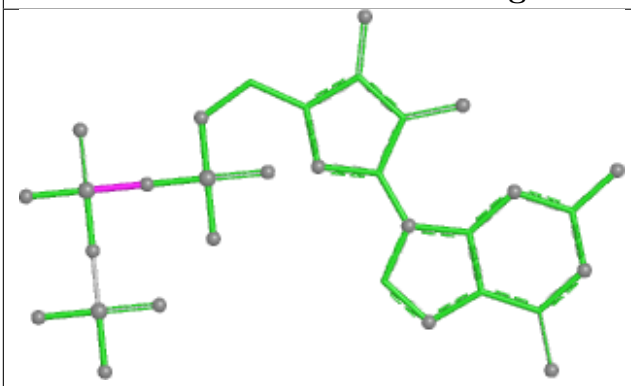


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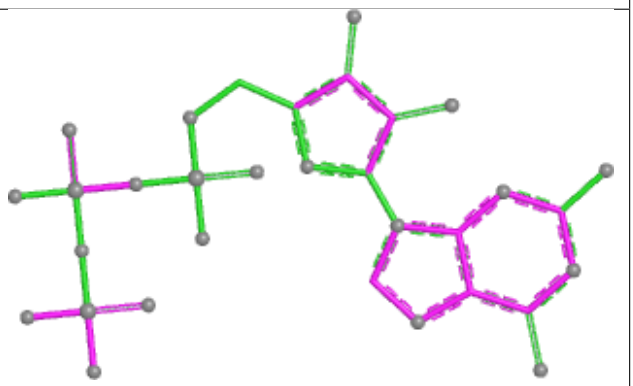


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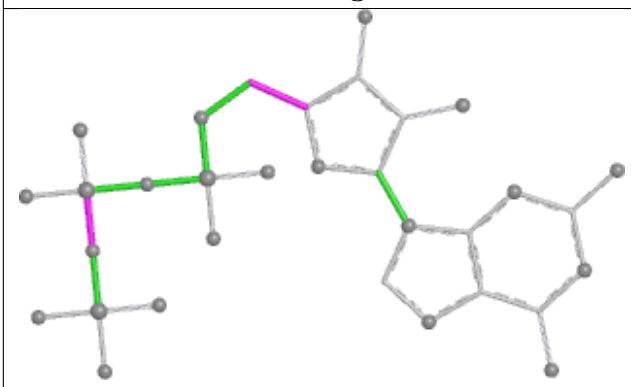
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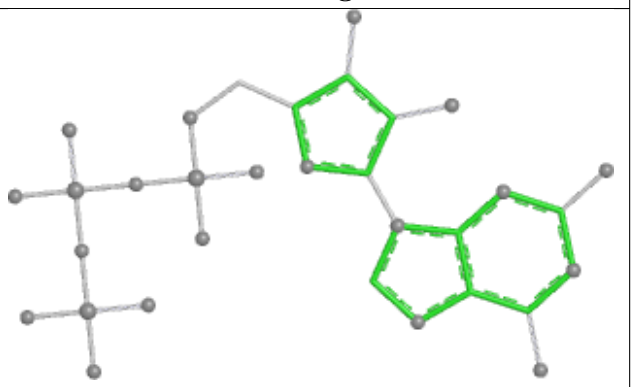
Bond lengths



Bond angles

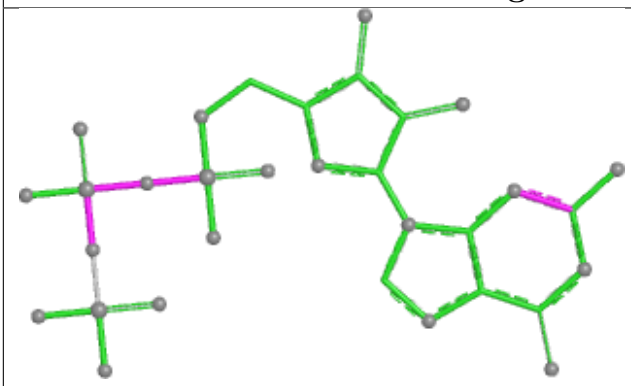


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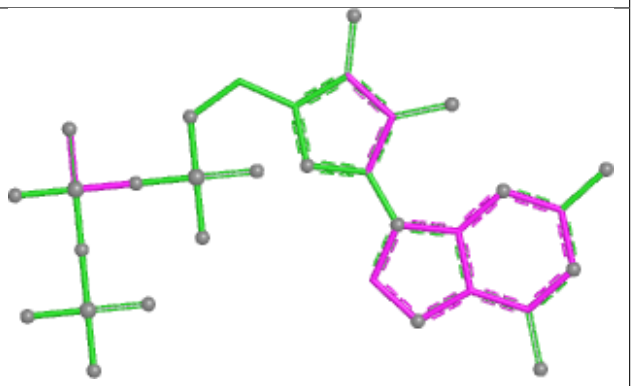


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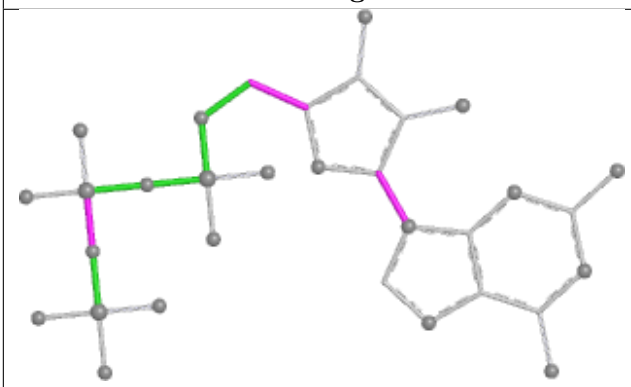
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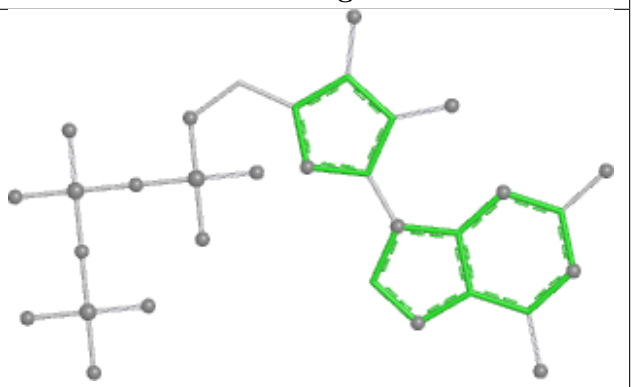
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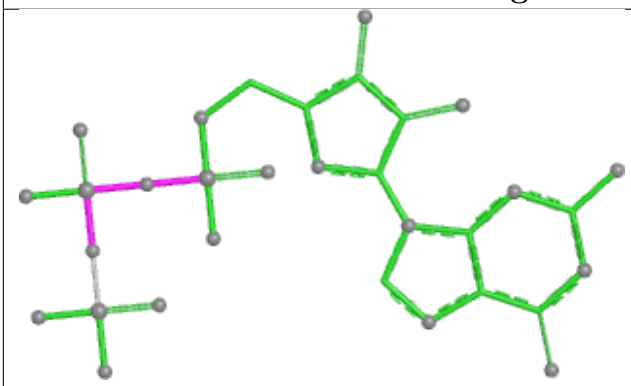


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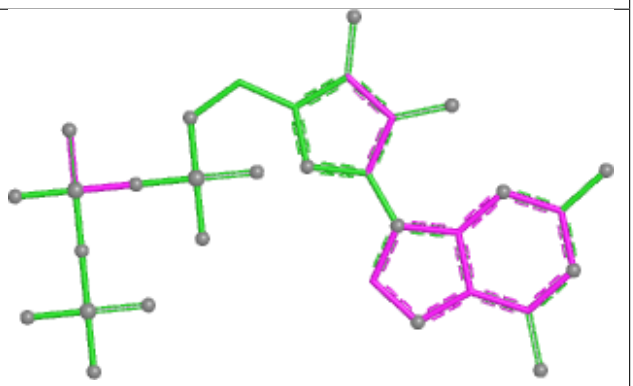


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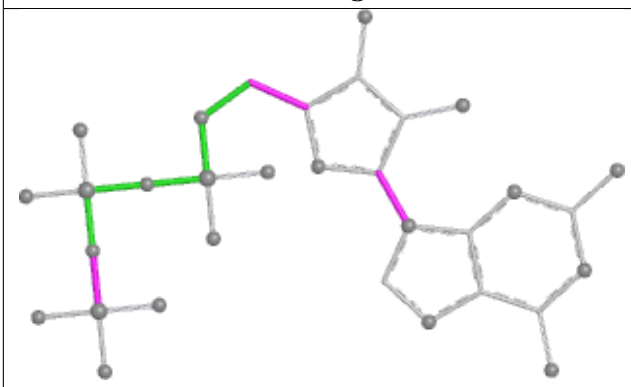
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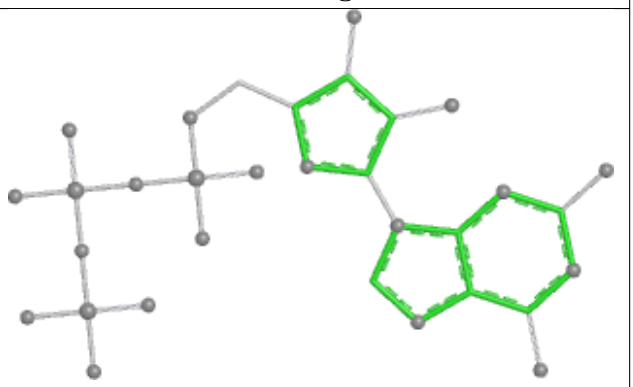
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Bond angles

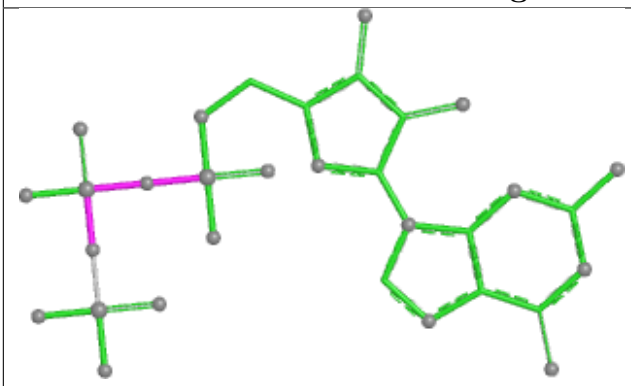


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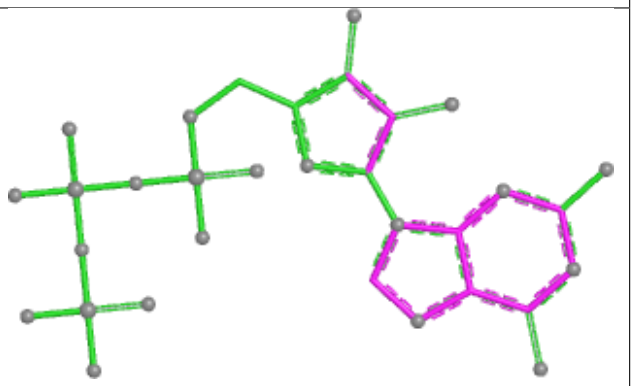


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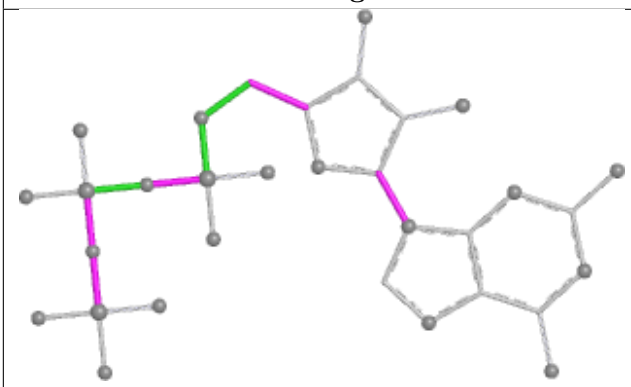
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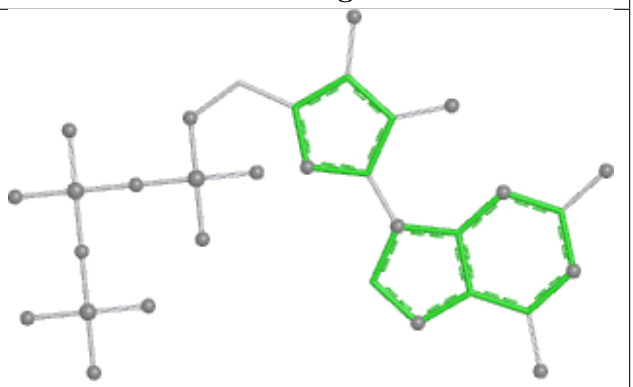
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Bond angles

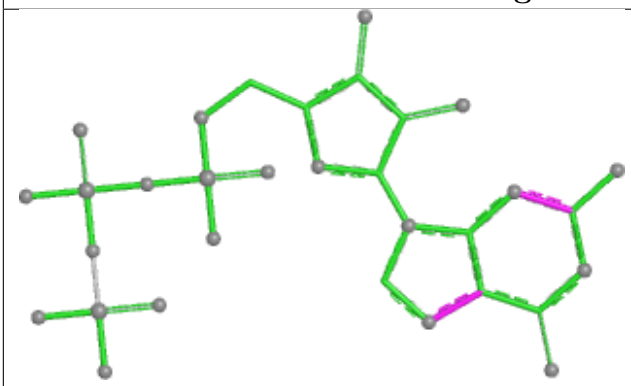


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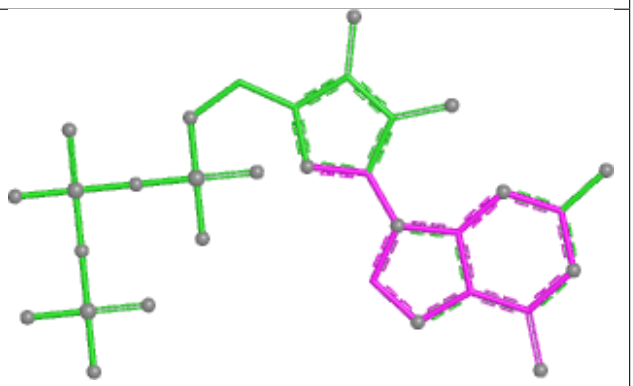


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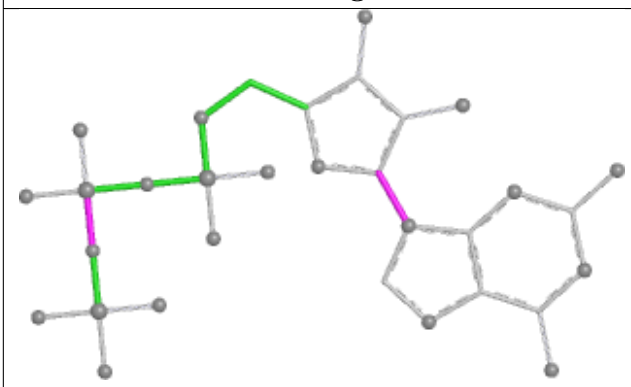
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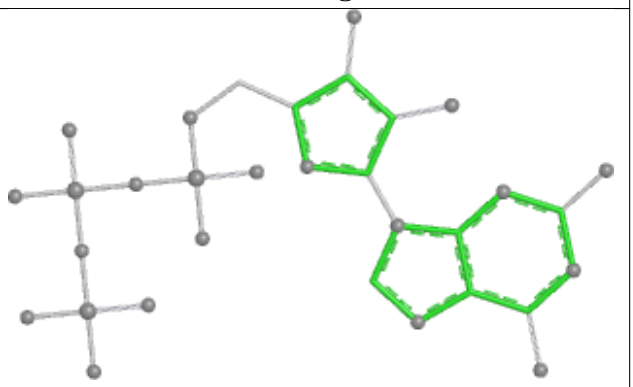
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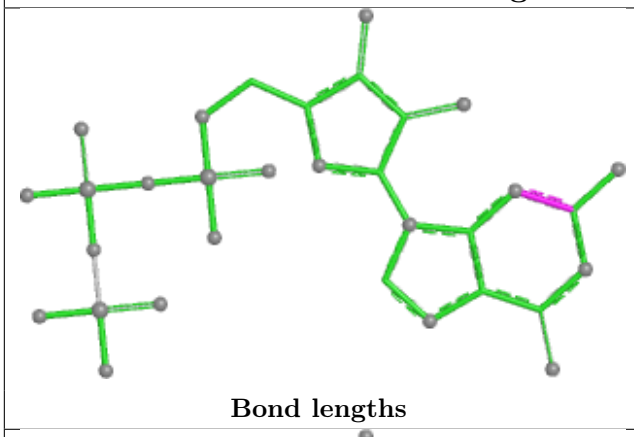


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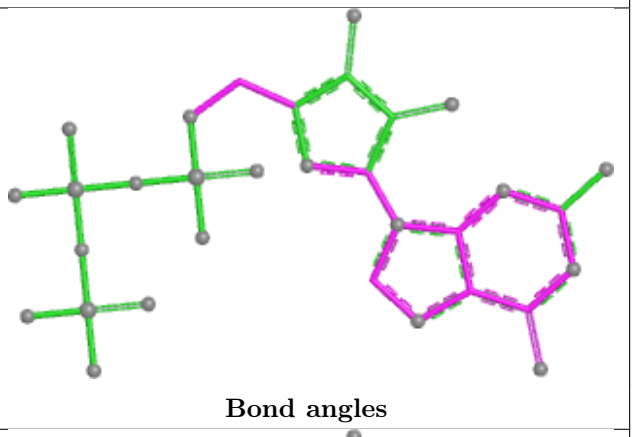


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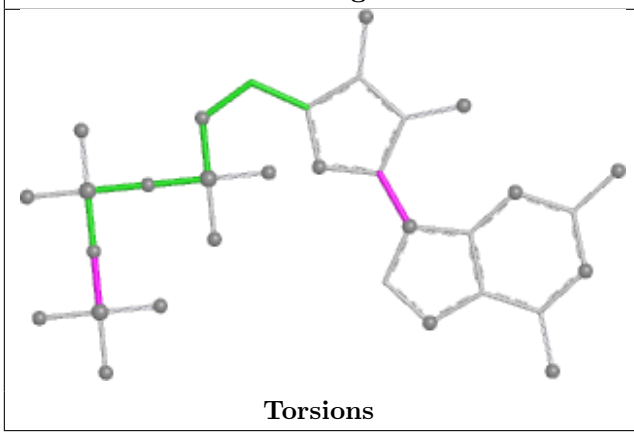
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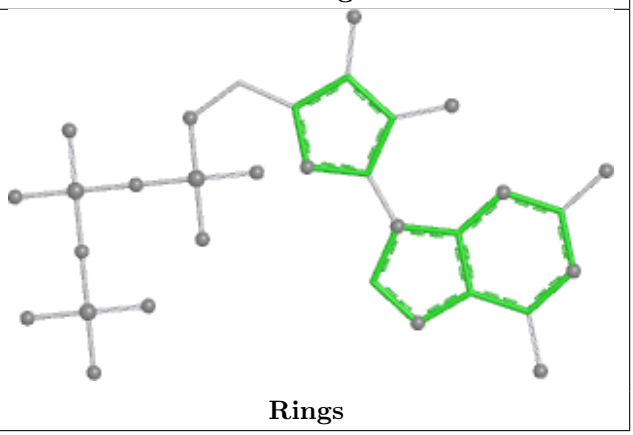
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Bond angles

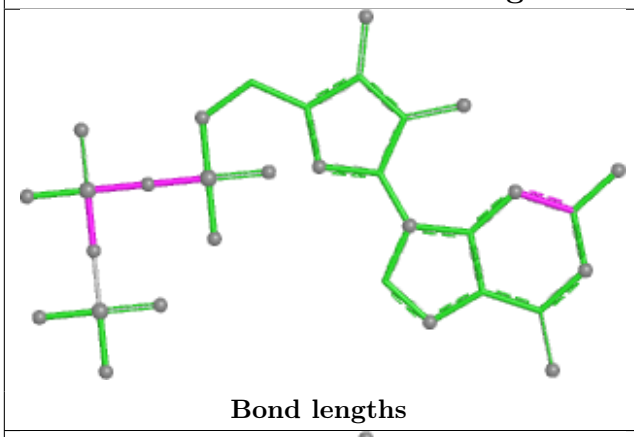


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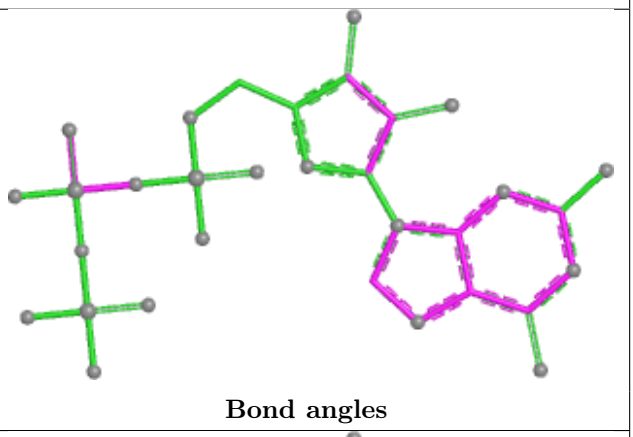


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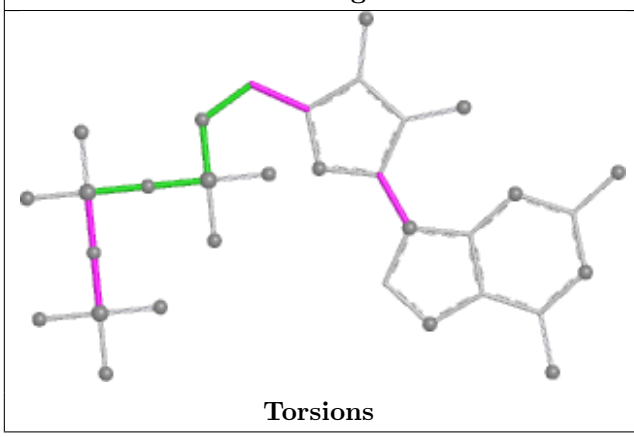
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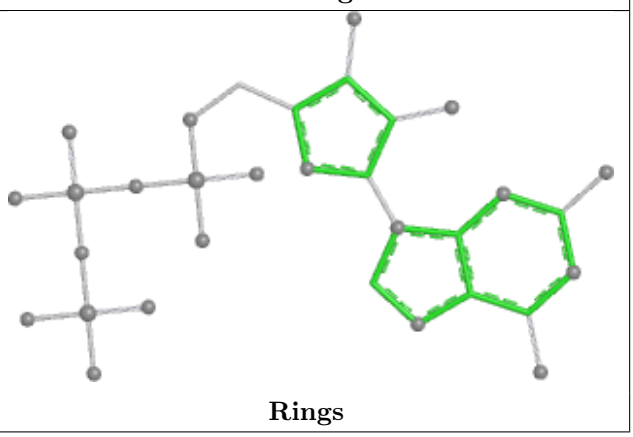
Bond lengths



Bond angles

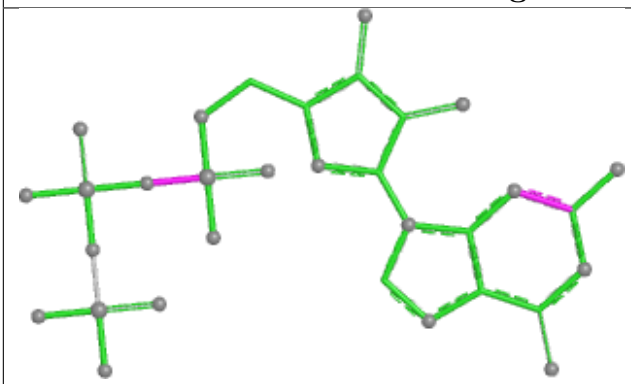


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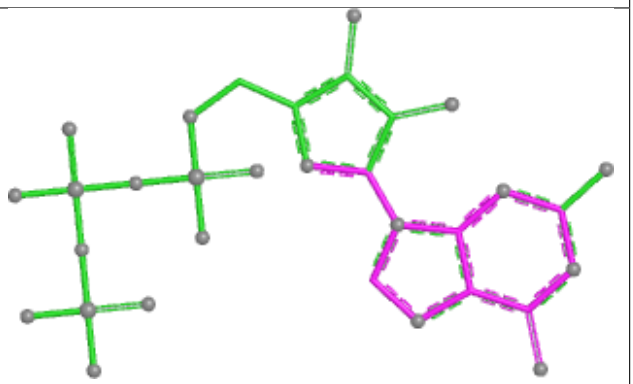


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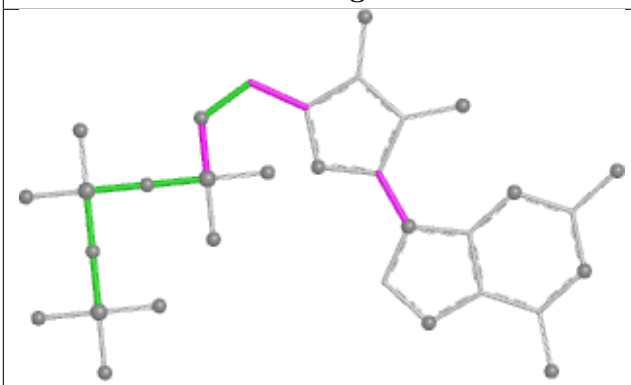
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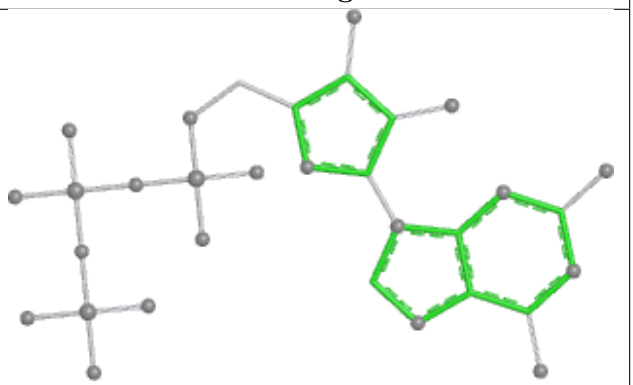
Bond lengths



Bond angles

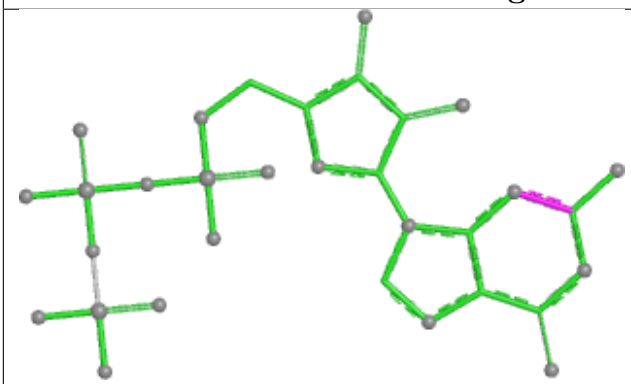


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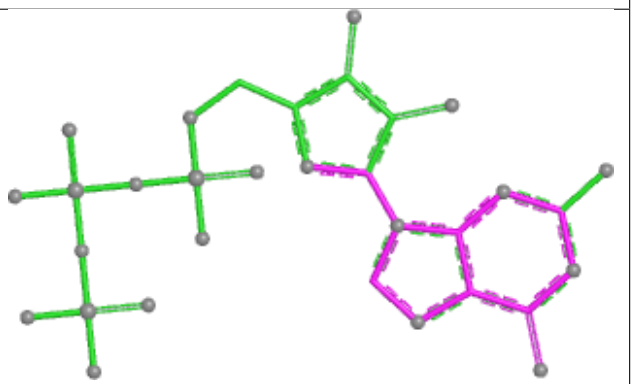


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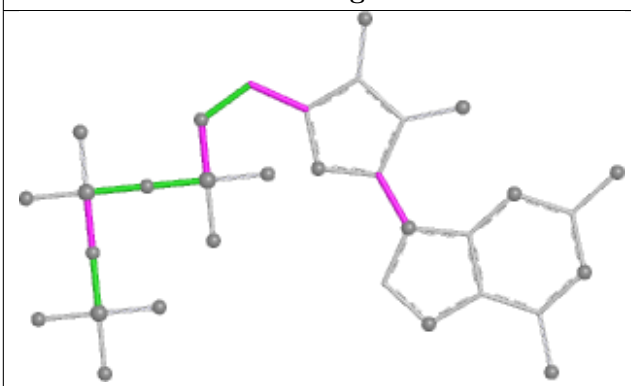
Ligand GTP UD 501



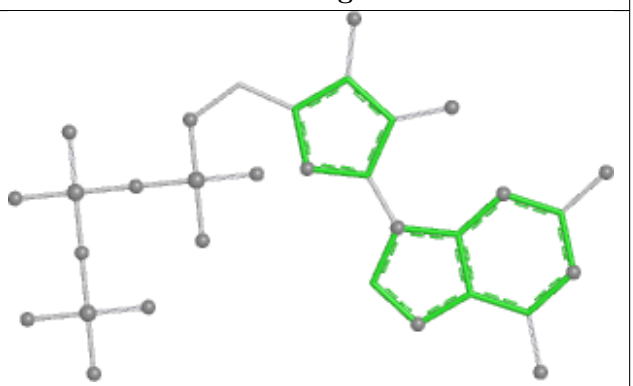
Bond lengths



Bond angles

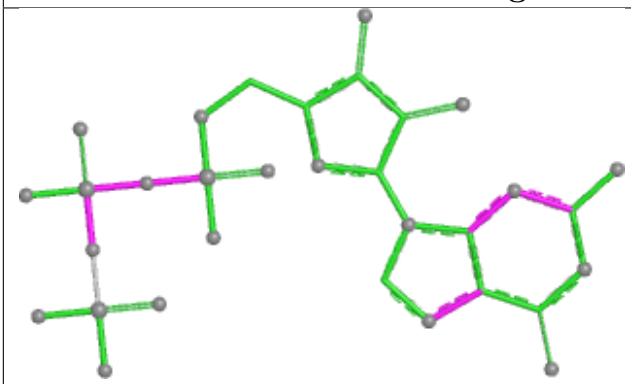


Torsions

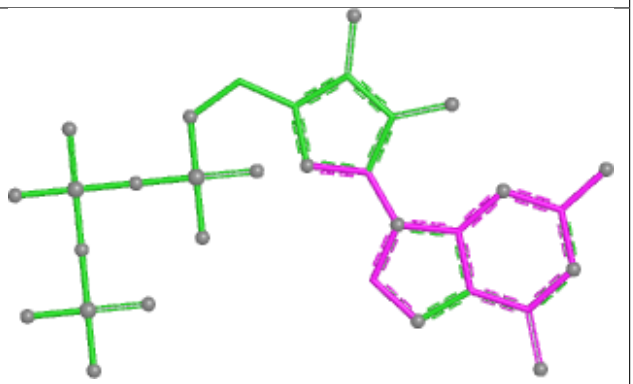


Rings

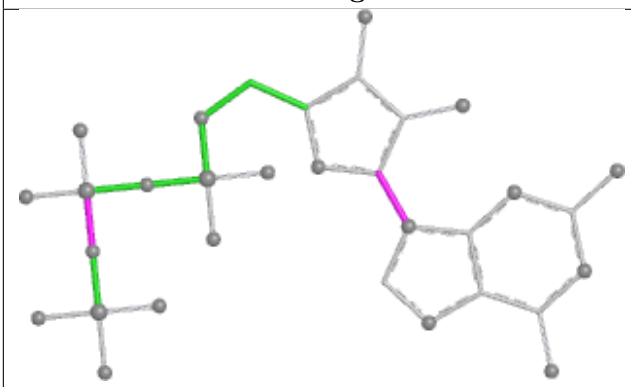
Ligand GTP GB 501



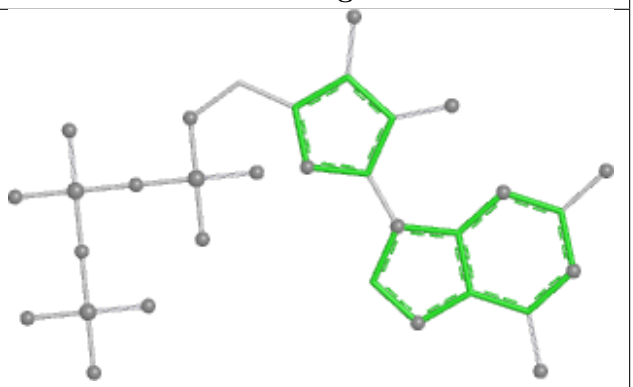
Bond lengths



Bond angles

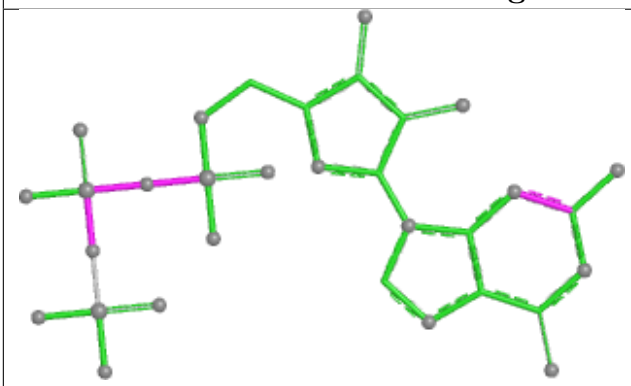


Torsions

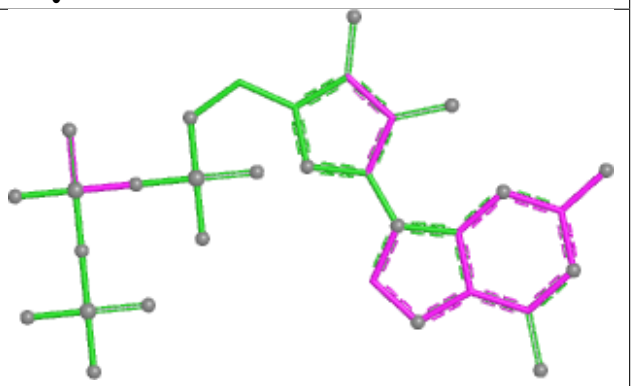


Rings

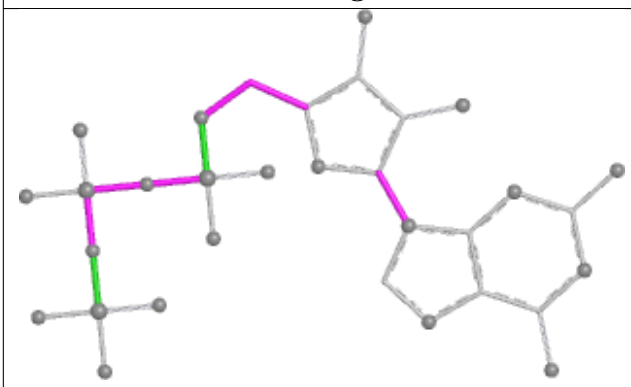
Ligand GTP QG 501



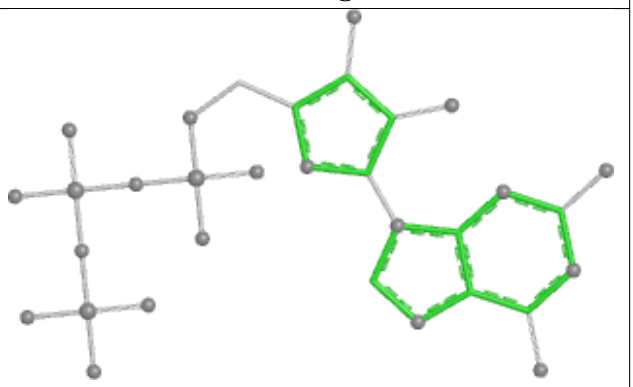
Bond lengths



Bond angles

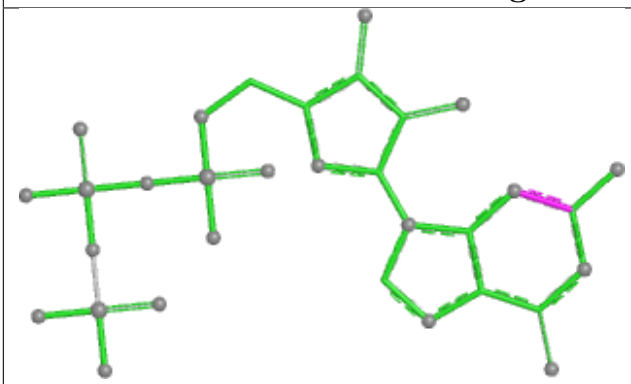


Torsions

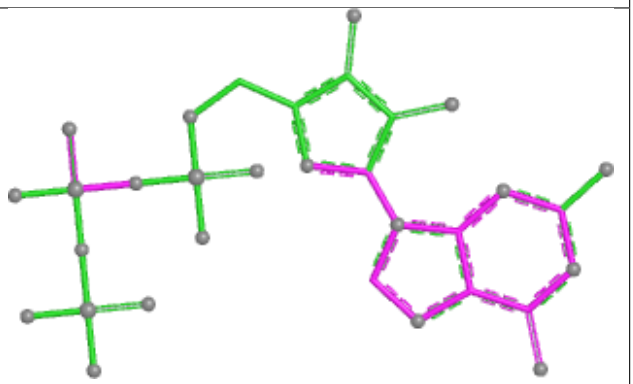


Rings

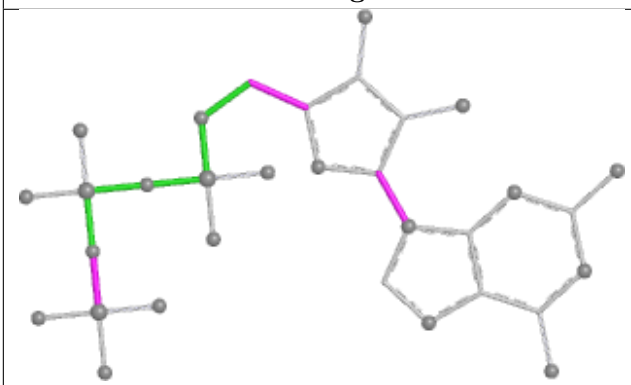
Ligand GTP VB 501



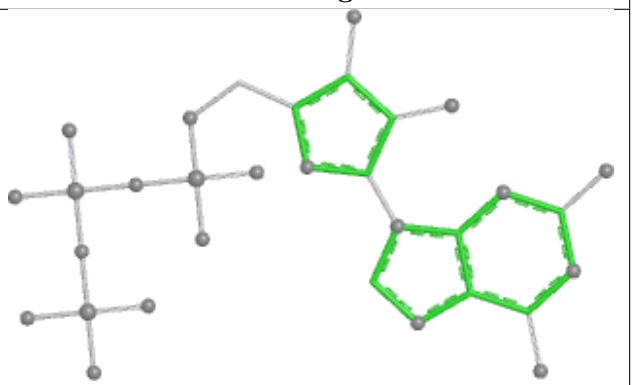
Bond lengths



Bond angles

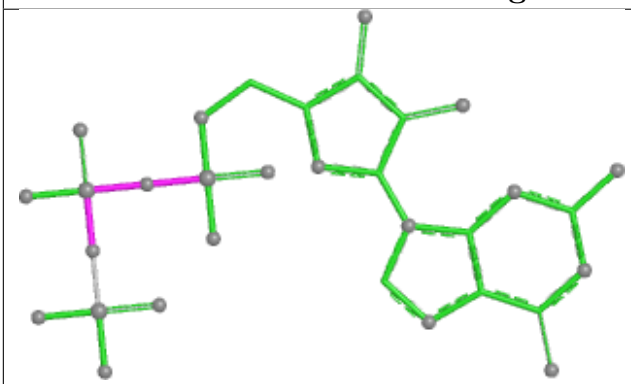


Torsions

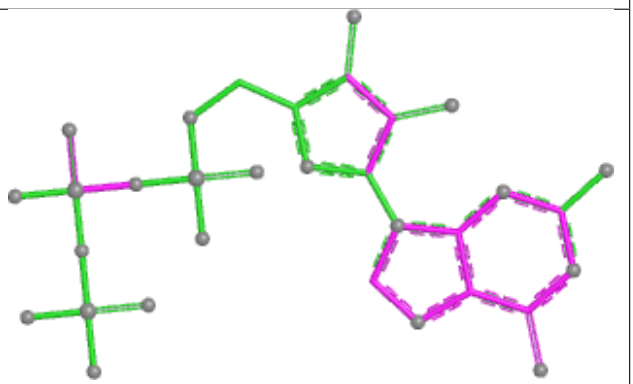


Rings

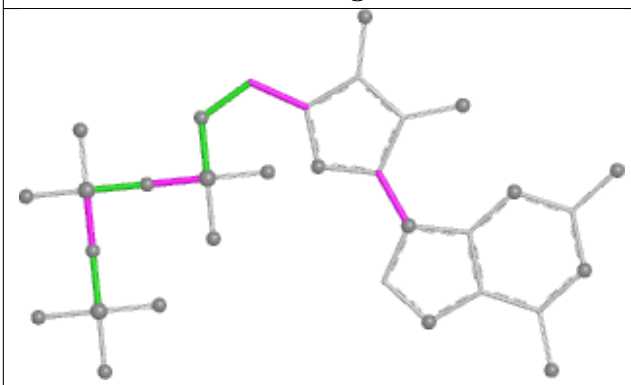
Ligand GTP CG 501



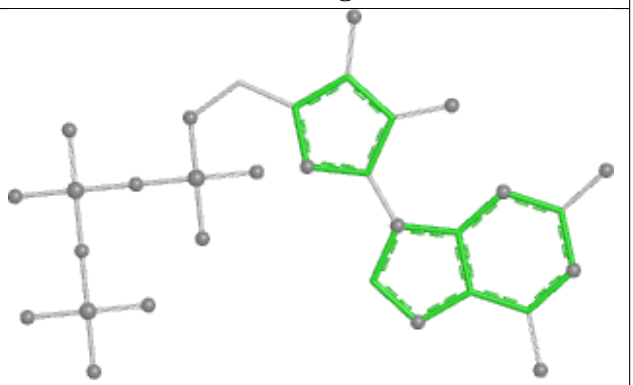
Bond lengths



Bond angles

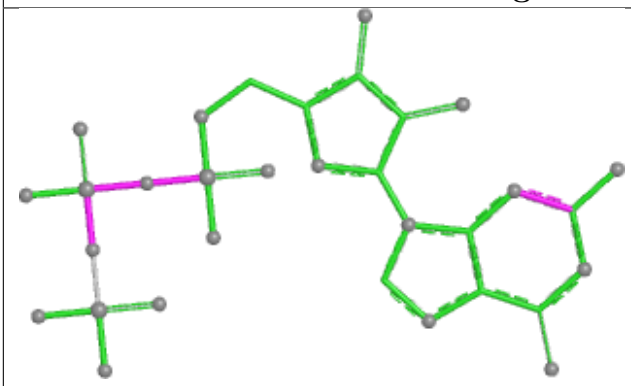


Torsions

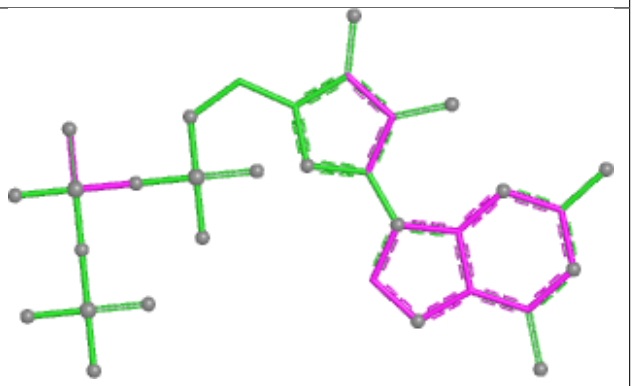


Rings

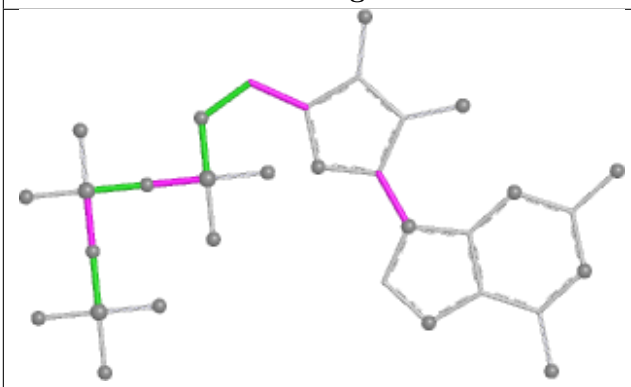
Ligand GTP JA 501



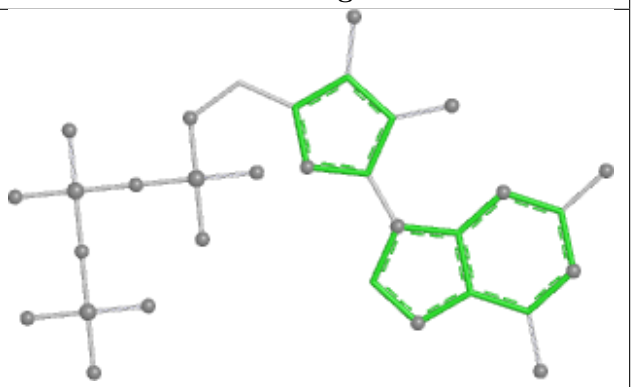
Bond lengths



Bond angles

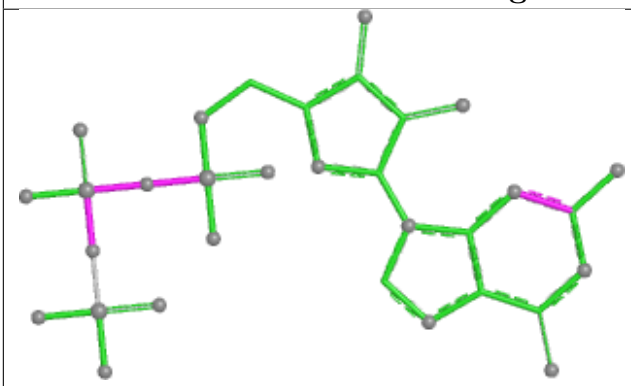


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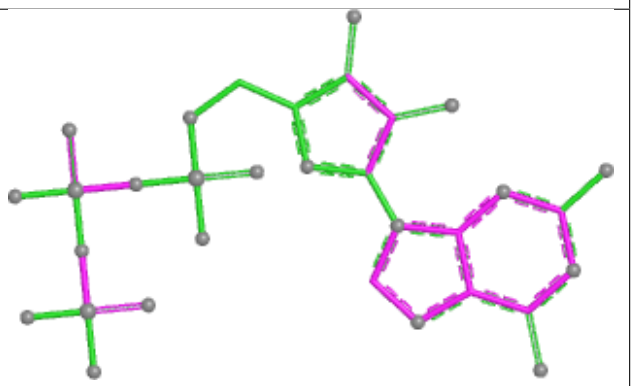


Rings

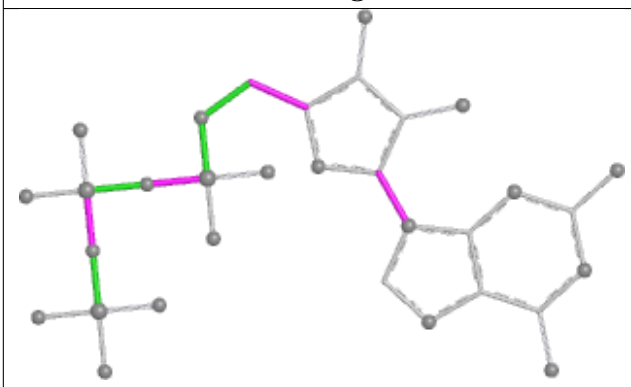
Ligand GTP PG 501



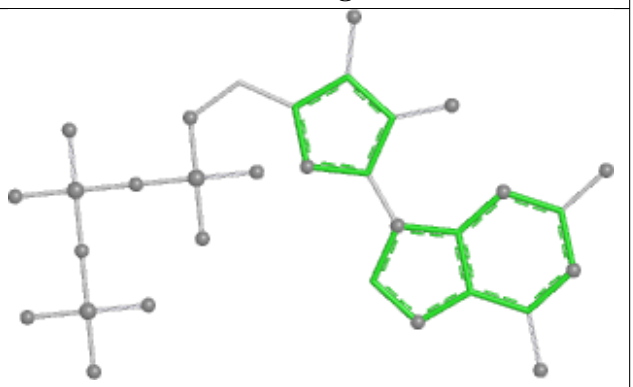
Bond lengths



Bond angles

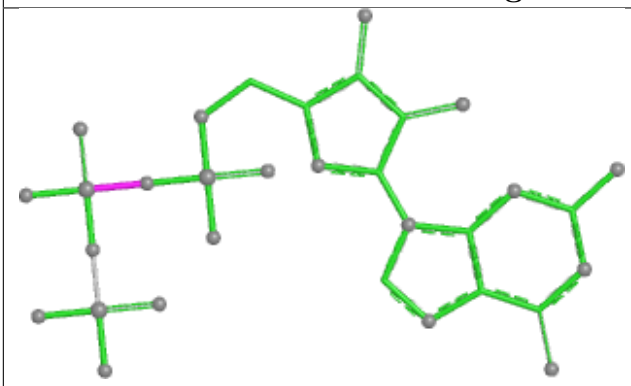


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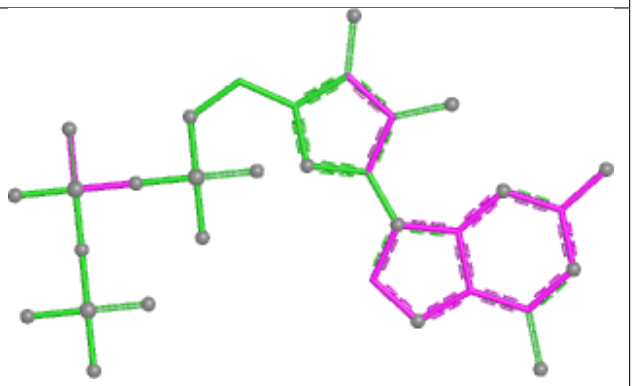


Rings

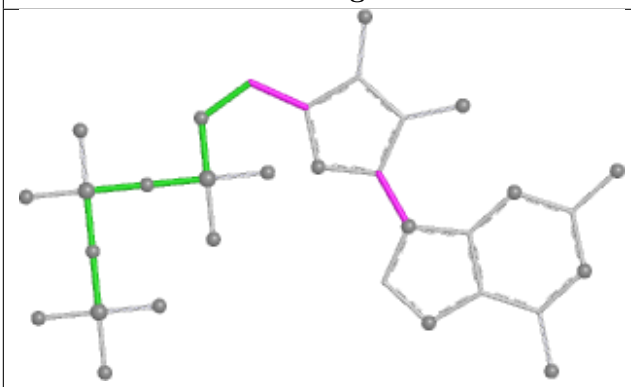
Ligand GTP AM 501



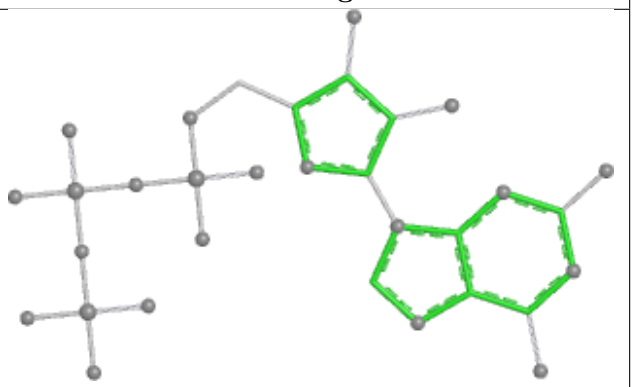
Bond lengths



Bond angles

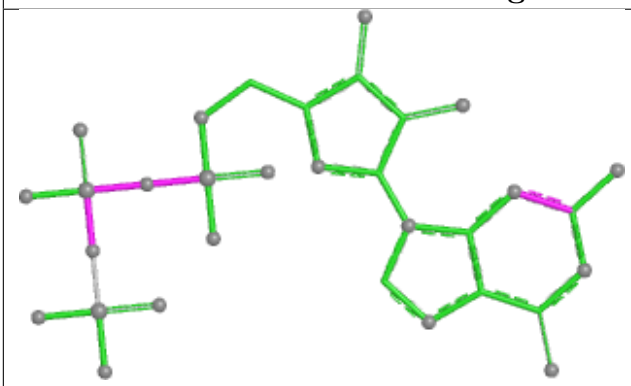


Torsions

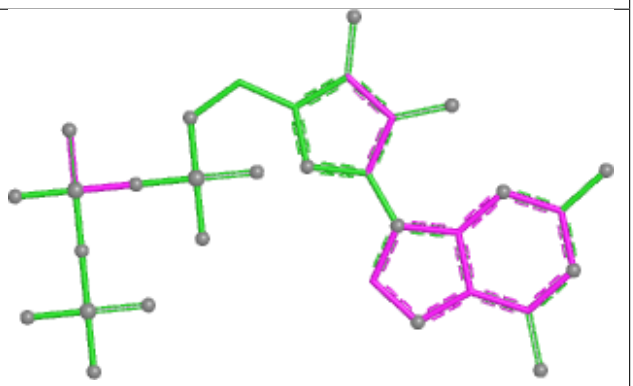


Rings

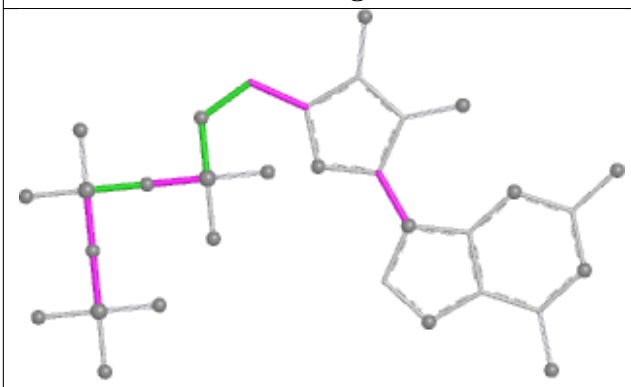
Ligand GTP DG 501



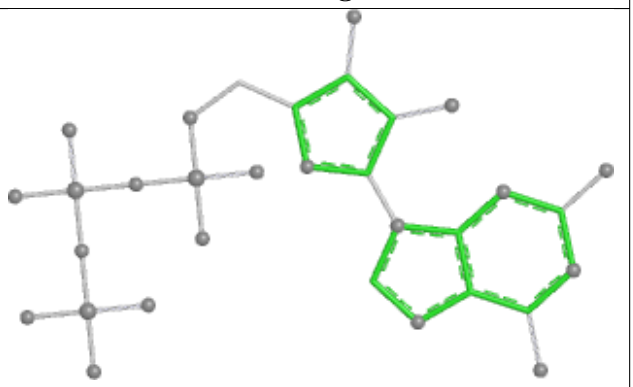
Bond lengths



Bond angles

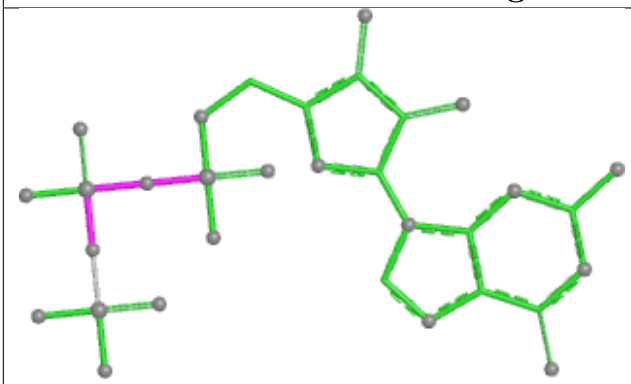


Torsions

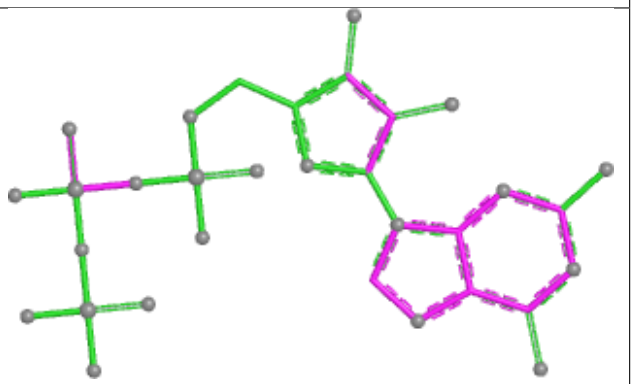


Rings

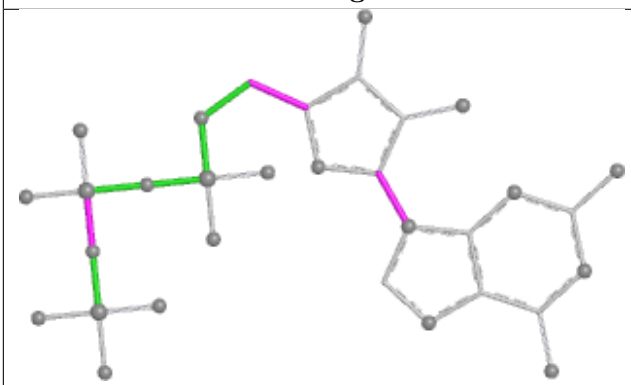
Ligand GTP GG 501



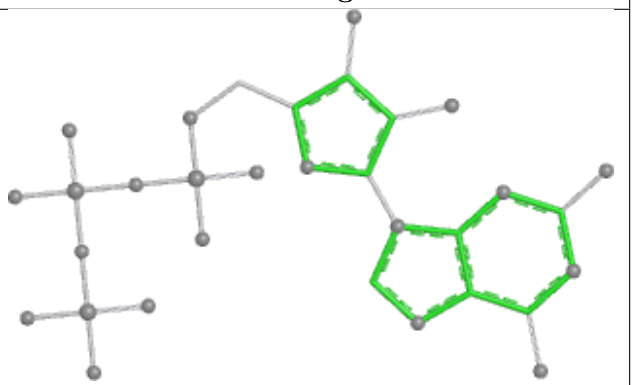
Bond lengths



Bond angles

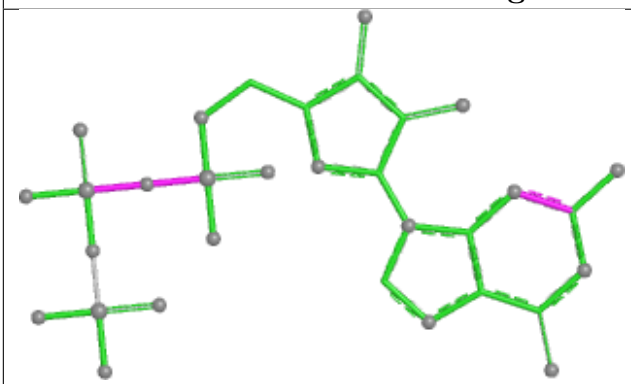


Torsions

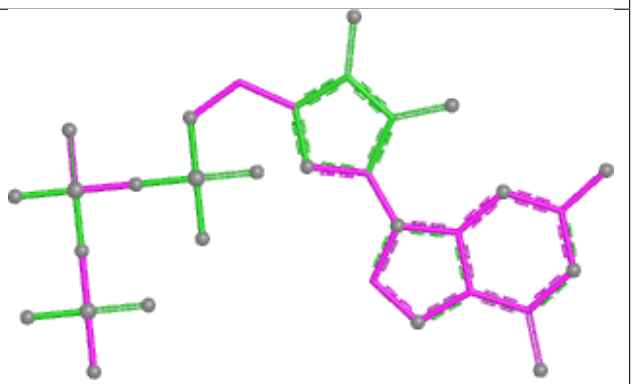


Rings

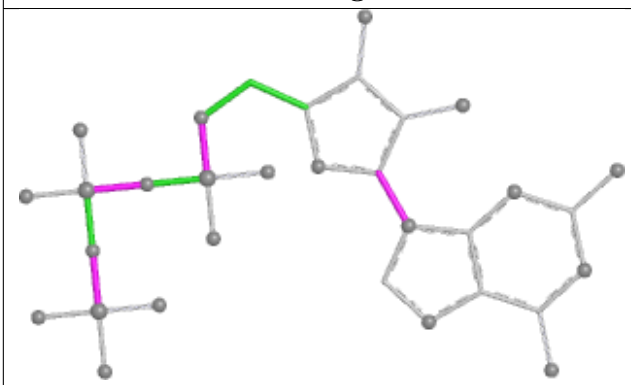
Ligand GTP KH 501



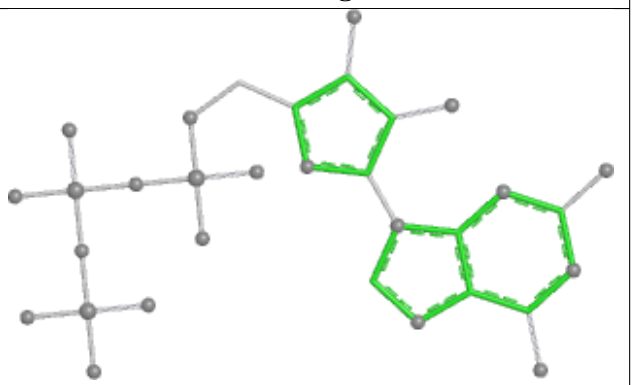
Bond lengths



Bond angles

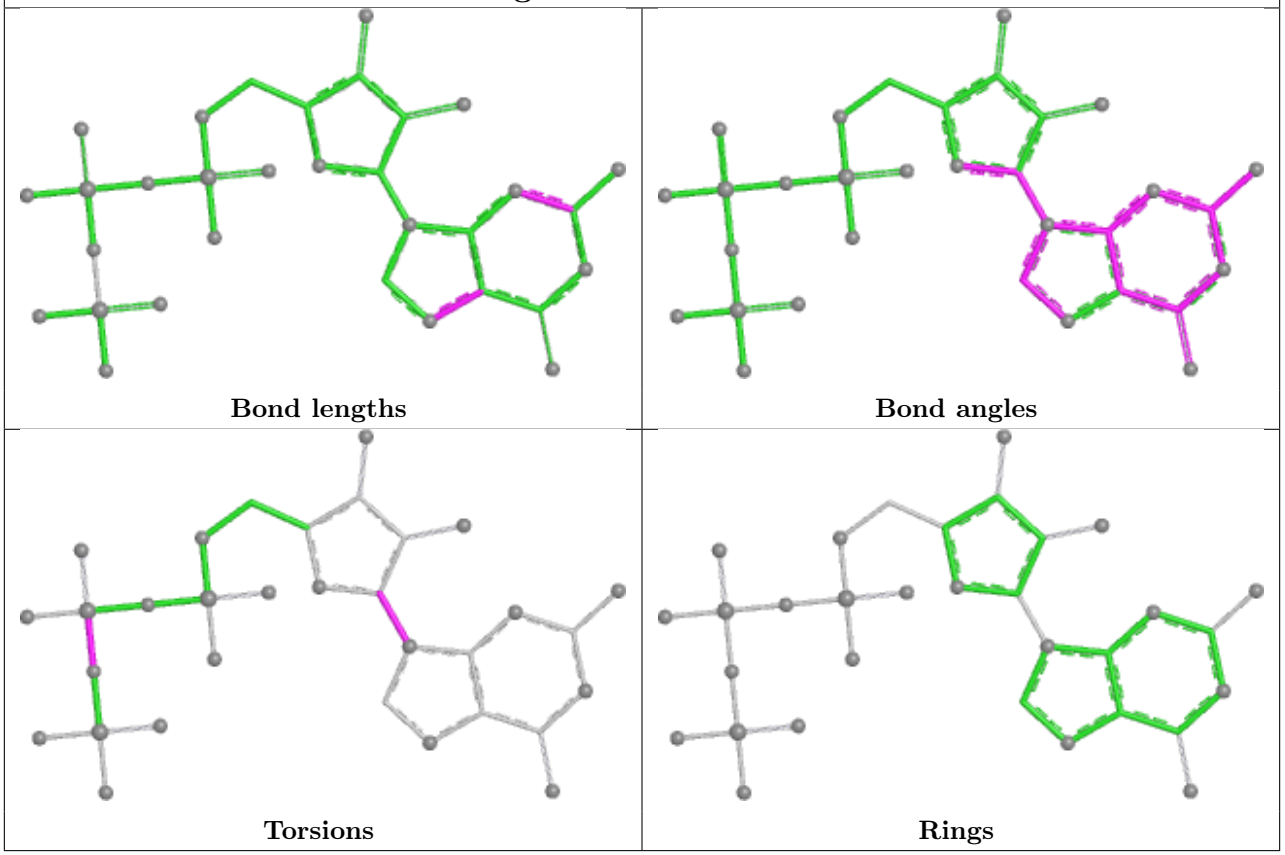


Torsions



Rings

Ligand GTP SB 501



5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

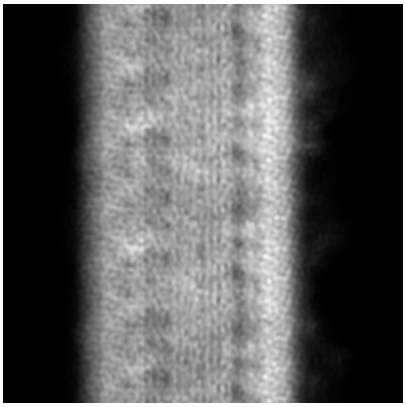
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-35230. These allow visual inspection of the internal detail of the map and identification of artifacts.

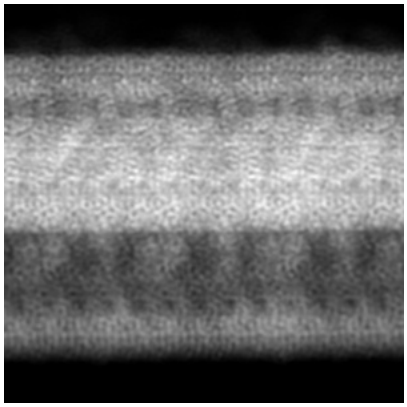
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

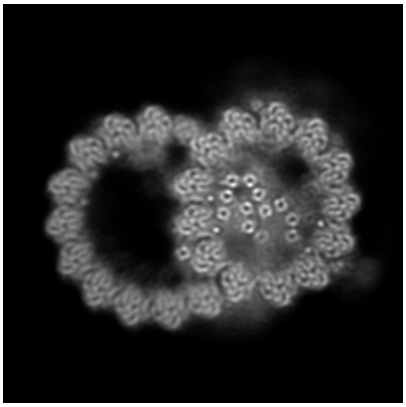
6.1.1 Primary map



X



Y

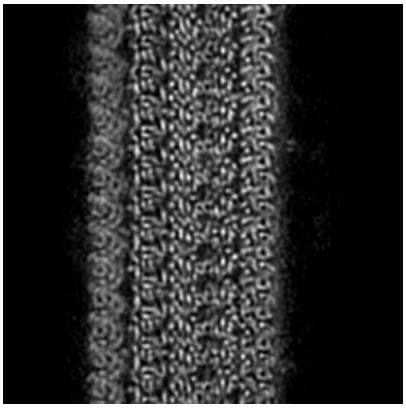


Z

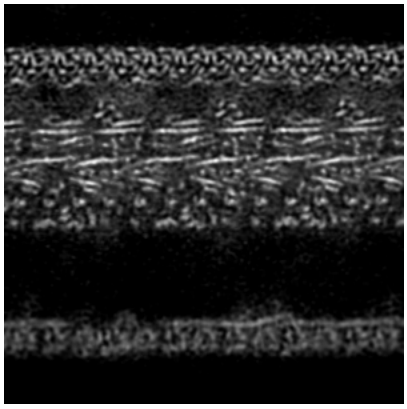
The images above show the map projected in three orthogonal directions.

6.2 Central slices

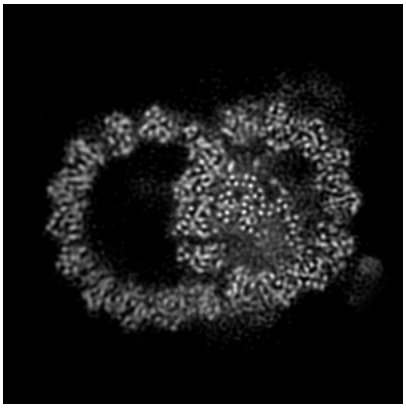
6.2.1 Primary map



X Index: 160



Y Index: 160

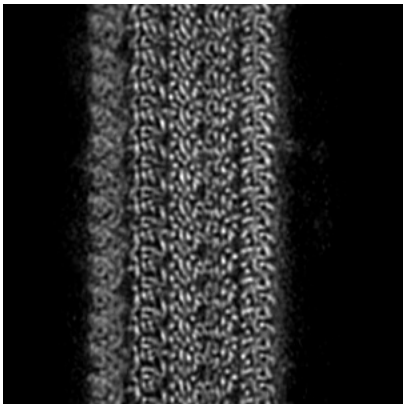


Z Index: 160

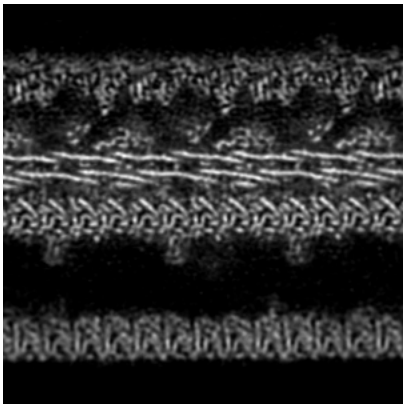
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

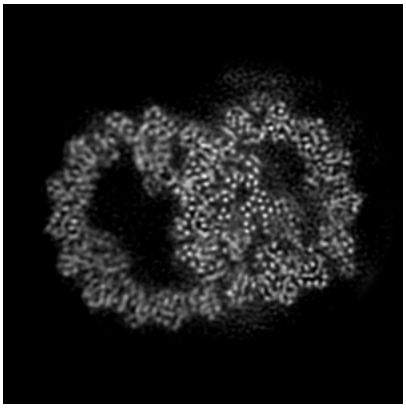
6.3.1 Primary map



X Index: 159



Y Index: 175

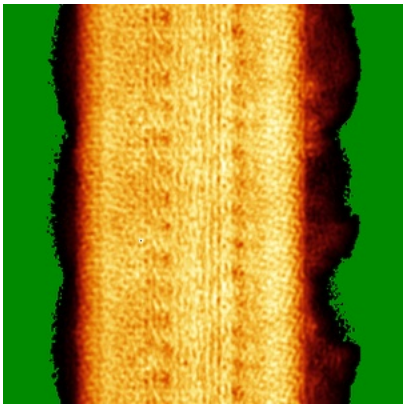


Z Index: 232

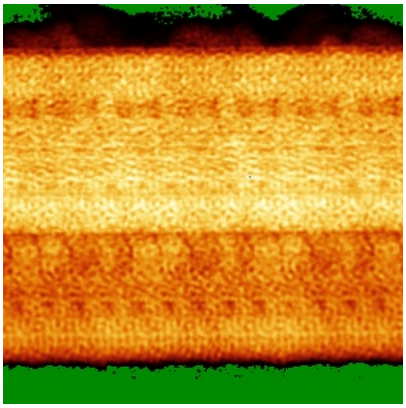
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

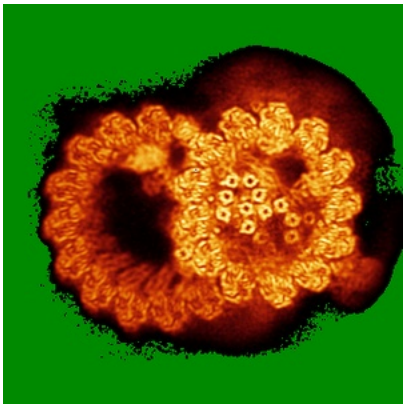
6.4.1 Primary map



X



Y

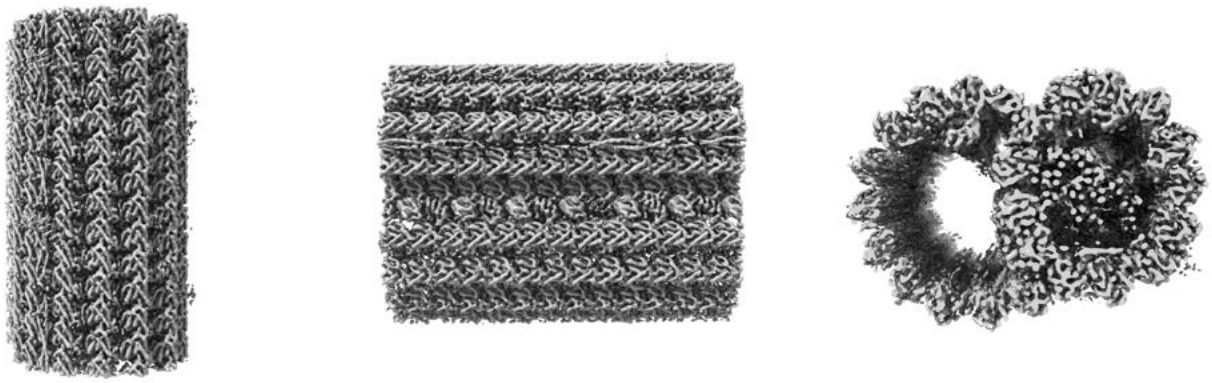


Z

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

6.5 Orthogonal surface views (i)

6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.003. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

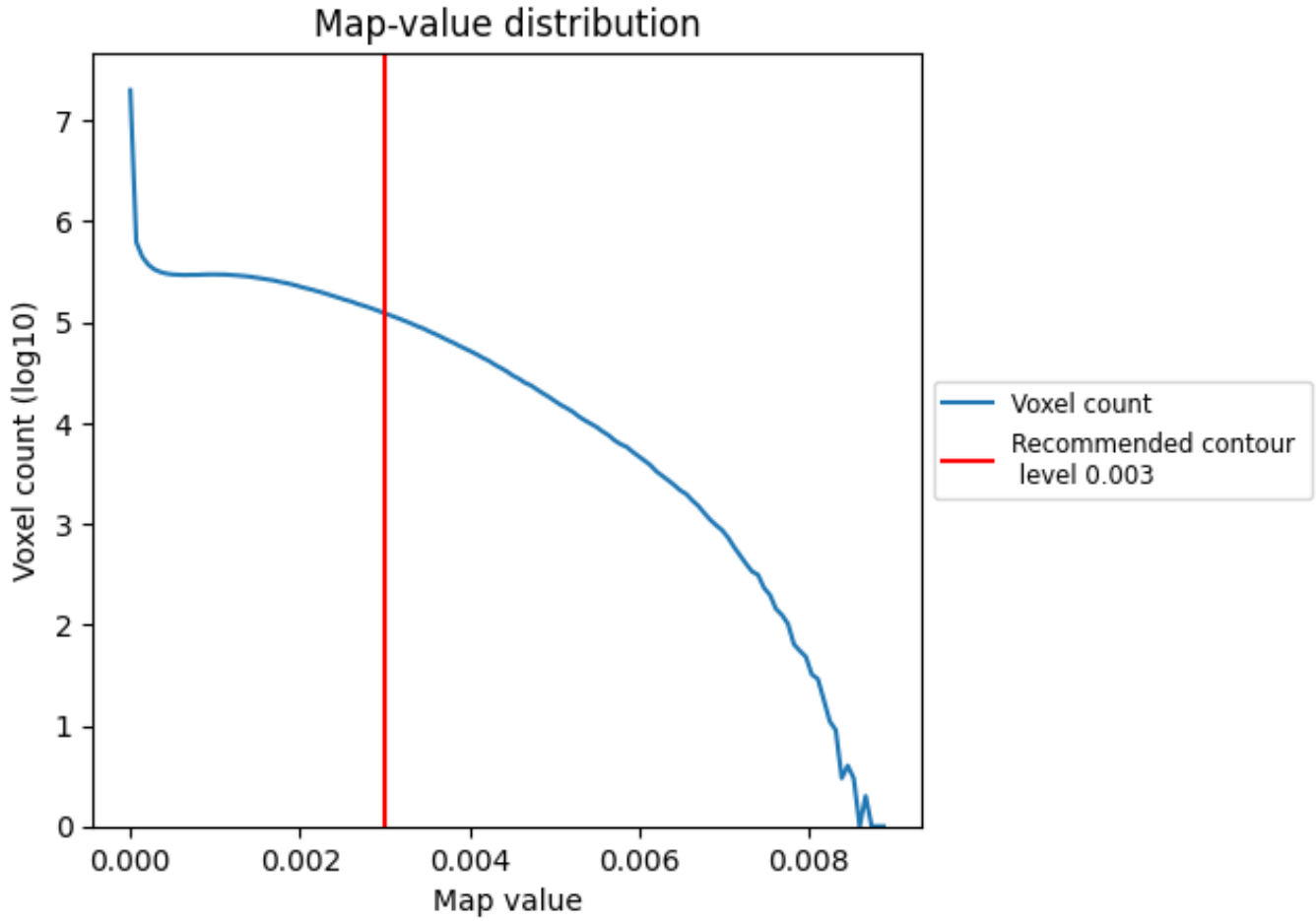
6.6 Mask visualisation (i)

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

7 Map analysis

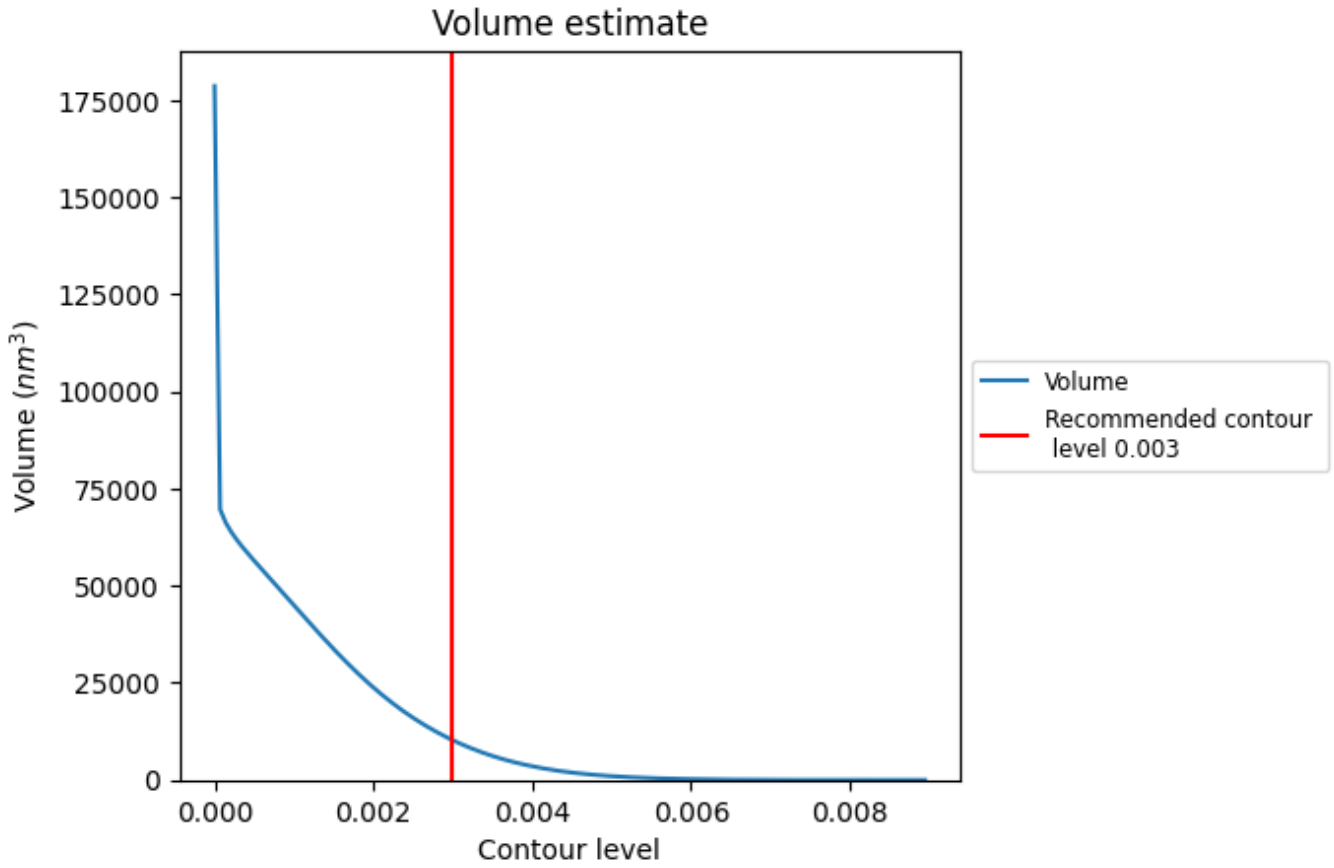
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

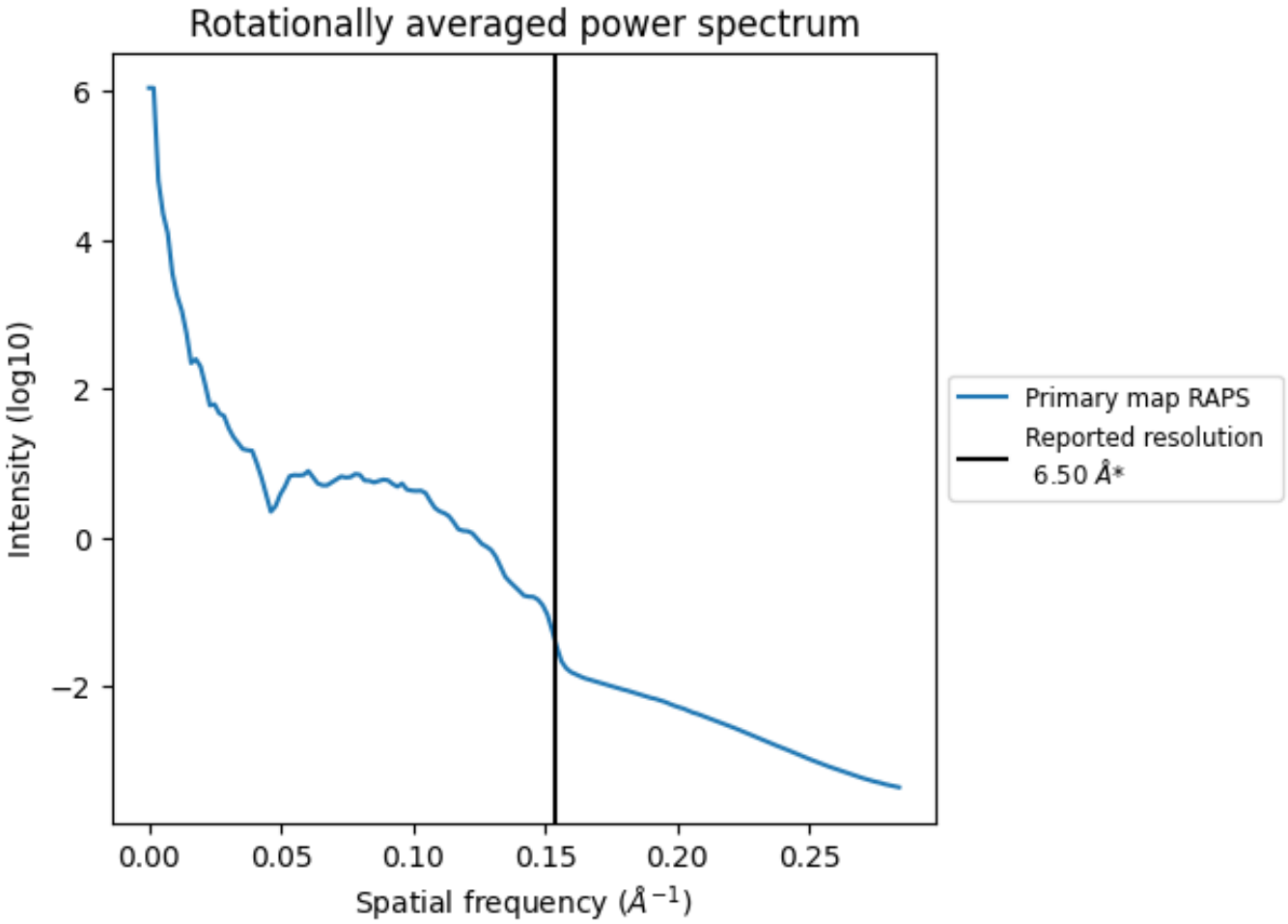
7.2 Volume estimate



The volume at the recommended contour level is 10233 nm^3; this corresponds to an approximate mass of 9243 kDa.

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

7.3 Rotationally averaged power spectrum (i)



*Reported resolution corresponds to spatial frequency of 0.154 $Å^{-1}$

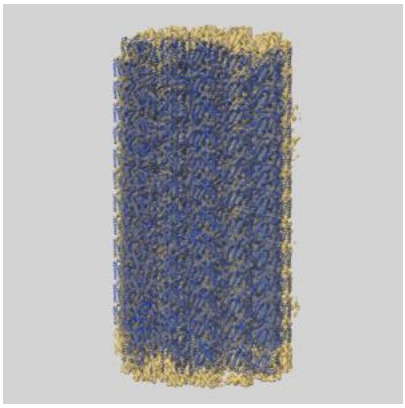
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

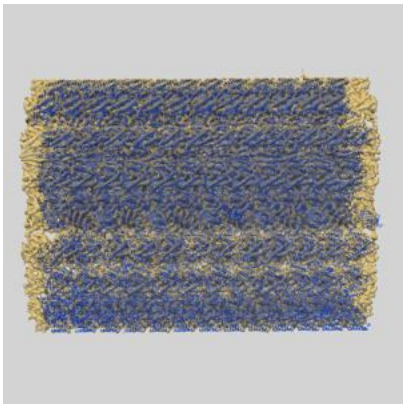
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-35230 and PDB model 8I7R. Per-residue inclusion information can be found in section 3 on page 61.

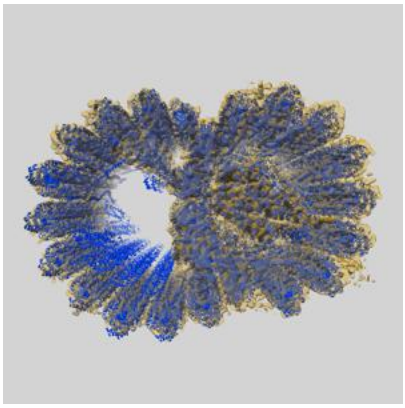
9.1 Map-model overlay



X



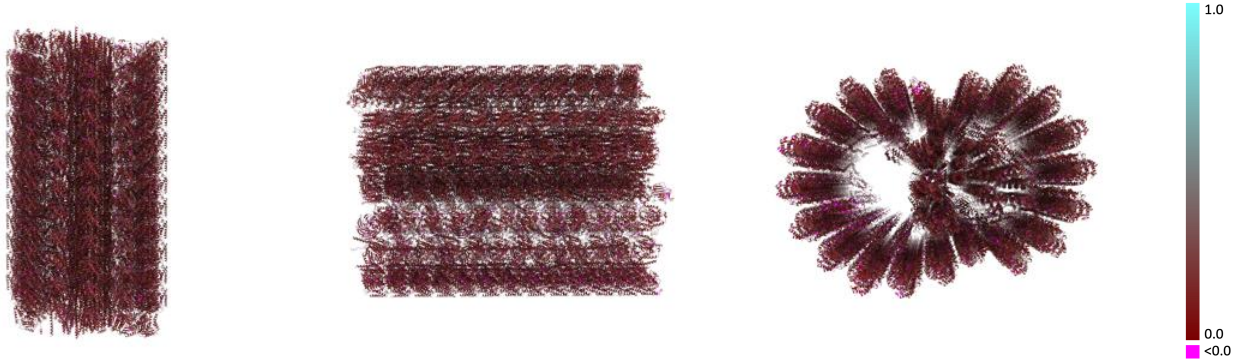
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.003 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

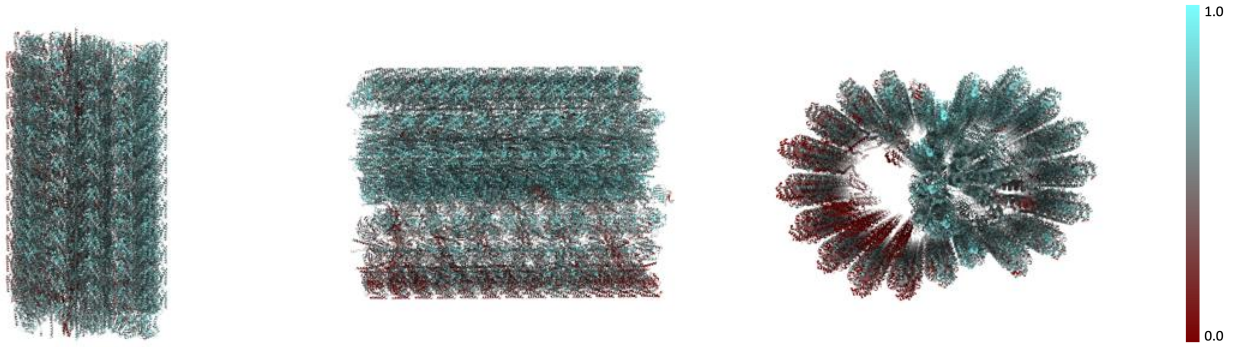
9.2 Q-score mapped to coordinate model (i)



X Y Z

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

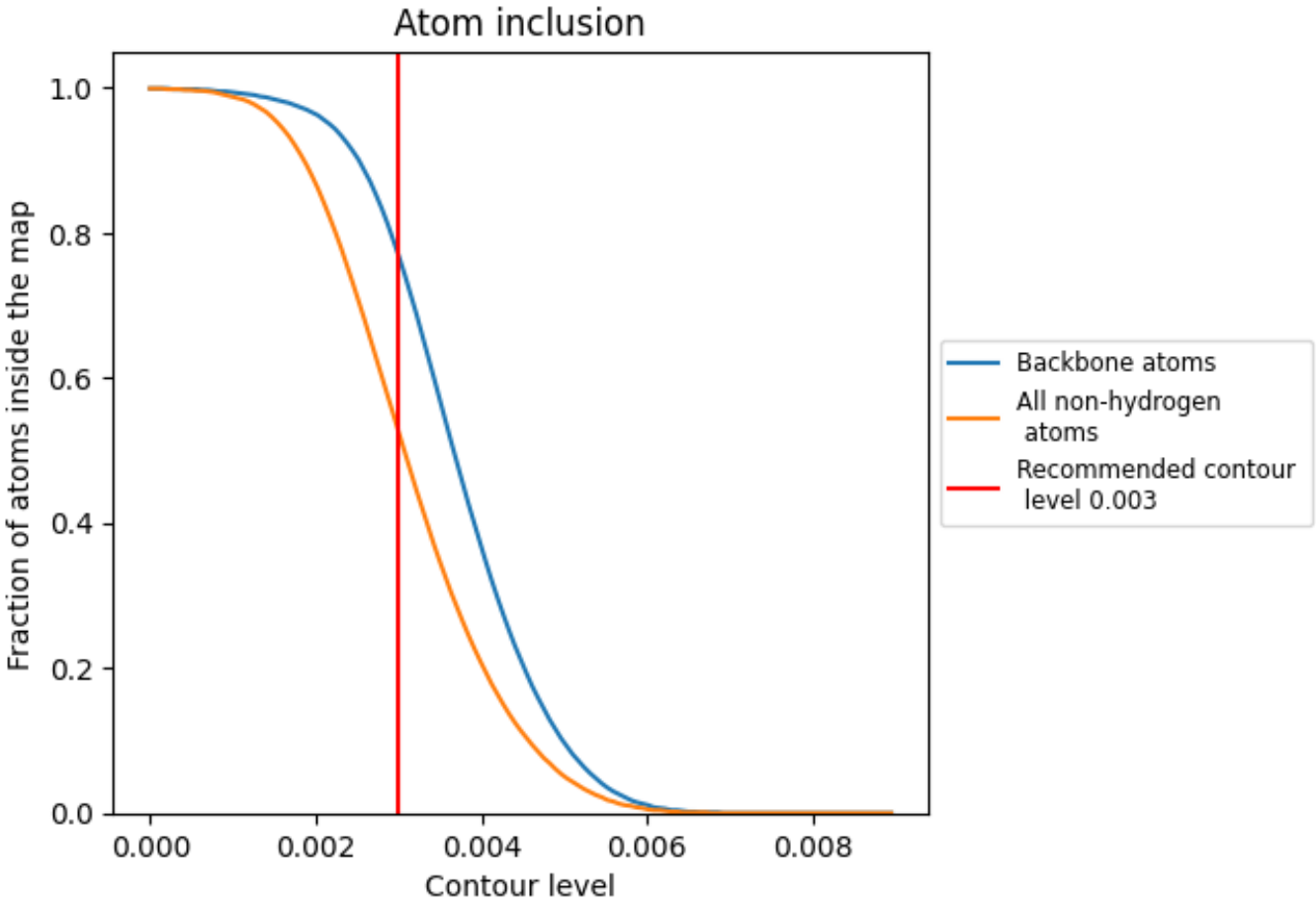
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.003).

9.4 Atom inclusion (i)



At the recommended contour level, 77% of all backbone atoms, 52% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.003) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.5250	0.1720
A	0.5490	0.1680
A1	0.6650	0.1630
A2	0.6980	0.1740
A3	0.6700	0.1700
A4	0.6350	0.1730
AB	0.6910	0.1760
AC	0.7010	0.1810
AD	0.7540	0.1730
AE	0.7470	0.1790
AF	0.7430	0.1820
AG	0.6680	0.1800
AH	0.6930	0.1800
AI	0.7140	0.1780
AJ	0.7240	0.1800
AK	0.6920	0.1800
AL	0.6800	0.1780
AM	0.6530	0.1730
B	0.4900	0.1850
B1	0.6370	0.1720
B2	0.6750	0.1770
B3	0.6870	0.1750
B4	0.6560	0.1760
B5	0.6100	0.1690
B6	0.6440	0.1620
B7	0.6780	0.1730
B8	0.6710	0.1620
B9	0.6550	0.1620
BB	0.6660	0.1760
BC	0.6590	0.1720
BD	0.6980	0.1720
BE	0.6970	0.1870
BF	0.7070	0.1770
BG	0.6360	0.1720
BH	0.6660	0.1690



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Chain	Atom inclusion	Q-score
BI	0.6820	0.1780
BJ	0.6860	0.1790
BK	0.6670	0.1740
BL	0.6500	0.1660
BM	0.6470	0.1670
C	0.5950	0.1670
C1	0.6550	0.1950
C2	0.6970	0.1670
C3	0.7030	0.1730
C4	0.6580	0.1690
C5	0.7060	0.1770
C6	0.6690	0.1710
C7	0.6910	0.1710
C8	0.6840	0.1710
C9	0.6560	0.1580
CB	0.6180	0.1920
CC	0.6180	0.1850
CD	0.6630	0.1890
CE	0.6520	0.1830
CF	0.6750	0.1860
CG	0.6090	0.1850
CH	0.6250	0.1840
CI	0.6380	0.1880
CJ	0.6740	0.1890
CK	0.6310	0.1860
CL	0.6260	0.1870
CM	0.6210	0.1900
Ca	0.6690	0.1670
Cb	0.6920	0.1720
Cc	0.6940	0.1750
Cd	0.6810	0.1720
D	0.5180	0.1540
D1	0.6210	0.1820
D2	0.6660	0.1680
D3	0.6850	0.1690
D4	0.6770	0.1670
D5	0.6550	0.1610
D6	0.6570	0.1680
D7	0.6950	0.1680
D8	0.6860	0.1710
D9	0.6800	0.1650
DA	0.5940	0.1860

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Chain	Atom inclusion	Q-score
DB	0.6360	0.1790
DC	0.6480	0.1860
DD	0.6750	0.1820
DE	0.6000	0.1830
DF	0.6170	0.1820
DG	0.6180	0.1840
DH	0.6680	0.1850
DI	0.6360	0.1850
DJ	0.5980	0.1780
DK	0.5900	0.1810
DL	0.6400	0.1860
Da	0.6590	0.1780
E	0.5590	0.2040
E1	0.6120	0.2100
E2	0.6030	0.2140
E3	0.6140	0.2140
E4	0.5930	0.1820
EA	0.5660	0.1880
EB	0.6000	0.1870
EC	0.6140	0.1870
ED	0.6420	0.1850
EE	0.5850	0.1830
EF	0.5710	0.1860
EG	0.5710	0.1850
EH	0.6240	0.1860
EI	0.6170	0.1860
EJ	0.5490	0.1850
EK	0.5400	0.1830
EL	0.5760	0.1900
F	0.5150	0.2190
F1	0.5880	0.1680
F2	0.6220	0.1820
F3	0.6170	0.1820
F4	0.5840	0.1700
F5	0.4290	0.1820
F6	0.4720	0.1850
F7	0.5710	0.1870
F8	0.5330	0.1720
F9	0.1880	0.1680
FA	0.5110	0.1800
FB	0.5640	0.1820
FC	0.5720	0.1830

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Chain	Atom inclusion	Q-score
FD	0.6130	0.1830
FE	0.5900	0.1830
FF	0.5470	0.1840
FG	0.5380	0.1900
FH	0.6000	0.1880
FI	0.6000	0.1840
FJ	0.5760	0.1890
FK	0.5370	0.1840
FL	0.5600	0.1850
Fa	0.4090	0.1850
Fb	0.5260	0.1830
Fc	0.4060	0.1840
Fd	0.0110	0.2220
Fe	0.4600	0.1520
Ff	0.4680	0.1640
Fg	0.3990	0.1540
Fh	0.4350	0.1530
Fi	0.2630	0.1630
Fj	0.4530	0.1750
Fk	0.5560	0.1680
Fl	0.5210	0.1760
Fm	0.5140	0.1670
G	0.5460	0.1850
G1	0.6430	0.1990
G2	0.6040	0.2020
G3	0.5640	0.2010
G4	0.5780	0.1980
G5	0.5660	0.1980
G6	0.5790	0.1970
GA	0.5070	0.1900
GB	0.5580	0.1840
GC	0.5370	0.1840
GD	0.5880	0.1840
GE	0.5790	0.1840
GF	0.5230	0.1870
GG	0.4960	0.1870
GH	0.5510	0.1850
GI	0.6040	0.1870
GJ	0.5680	0.1820
GK	0.4760	0.1810
GL	0.5250	0.1850
H	0.5480	0.1940

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Chain	Atom inclusion	Q-score
H1	0.5760	0.2130
H2	0.6440	0.1980
H3	0.6840	0.2280
H4	0.6000	0.1920
H5	0.6370	0.2180
H6	0.5550	0.1960
HA	0.4900	0.1790
HB	0.5260	0.1820
HC	0.4910	0.1800
HD	0.5750	0.1780
HE	0.5670	0.1880
HF	0.5150	0.1810
HG	0.5070	0.1790
HH	0.5650	0.1850
HI	0.5910	0.1870
HJ	0.5620	0.1760
HK	0.4680	0.1820
HL	0.5200	0.1880
I	0.5390	0.1960
I1	0.7610	0.2210
I2	0.7750	0.2170
I3	0.7410	0.2250
IA	0.5000	0.1790
IB	0.5590	0.1830
IC	0.5420	0.1760
ID	0.5980	0.1820
IE	0.5900	0.1890
IF	0.5530	0.1830
IG	0.5290	0.1830
IH	0.5730	0.1880
II	0.6050	0.1860
IJ	0.6150	0.1860
IK	0.5290	0.1800
IL	0.5570	0.1800
IM	0.5600	0.1840
J	0.5760	0.2050
J1	0.5120	0.1720
J2	0.5810	0.1740
J3	0.5500	0.1690
JA	0.5940	0.1640
JB	0.6370	0.1660
JC	0.6410	0.1730

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Chain	Atom inclusion	Q-score
JD	0.6650	0.1770
JE	0.6200	0.1750
JF	0.6120	0.1670
JG	0.6080	0.1680
JH	0.6600	0.1700
JI	0.6430	0.1700
JJ	0.6220	0.1690
JK	0.5800	0.1600
JL	0.6180	0.1630
K	0.5880	0.1670
K1	0.6200	0.1900
K2	0.6460	0.1890
K3	0.6550	0.1910
K4	0.6470	0.1930
K5	0.5920	0.2130
KA	0.6330	0.1760
KB	0.6450	0.1710
KC	0.6890	0.1750
KD	0.7190	0.1710
KE	0.7030	0.1760
KF	0.6640	0.1780
KG	0.6480	0.1820
KH	0.7070	0.1770
KI	0.6930	0.1730
KJ	0.7070	0.1820
KK	0.6190	0.1720
KL	0.6420	0.1750
L	0.5800	0.1720
L1	0.5150	0.2060
L2	0.5960	0.2080
L3	0.5960	0.2090
L4	0.4350	0.2200
LA	0.6520	0.1760
LB	0.6510	0.1640
LC	0.7060	0.1660
LD	0.7210	0.1710
LE	0.7110	0.1780
LF	0.7090	0.1740
LG	0.6670	0.1760
LH	0.7210	0.1780
LI	0.7010	0.1780
LJ	0.7210	0.1800

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Chain	Atom inclusion	Q-score
LK	0.6590	0.1660
LL	0.6460	0.1720
M	0.4100	0.2110
M1	0.5530	0.1850
M2	0.6680	0.1940
M3	0.6760	0.1880
MB	0.6540	0.1730
MC	0.6870	0.1710
MD	0.7500	0.1790
ME	0.7300	0.1750
MF	0.7300	0.1790
MG	0.6870	0.1790
MH	0.7190	0.1740
MI	0.6830	0.1750
MJ	0.7060	0.1800
MK	0.6970	0.1740
ML	0.6700	0.1770
MM	0.6300	0.1750
N	0.3720	0.2320
N1	0.4820	0.1840
N2	0.6070	0.1860
N3	0.6160	0.1970
N4	0.5220	0.2040
NA	0.4500	0.1680
NB	0.4700	0.1600
NC	0.4660	0.1620
ND	0.5550	0.1620
NE	0.5160	0.1610
NF	0.5050	0.1650
NG	0.5010	0.1640
NH	0.5560	0.1660
NI	0.5570	0.1680
NJ	0.4830	0.1630
NK	0.4620	0.1570
NL	0.4770	0.1620
O	0.6300	0.1930
O1	0.6540	0.2110
O2	0.6330	0.2200
O3	0.5640	0.2100
OA	0.2650	0.1490
OB	0.3030	0.1570
OC	0.2920	0.1520

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Chain	Atom inclusion	Q-score
OD	0.3710	0.1600
OE	0.3970	0.1570
OF	0.3640	0.1540
OG	0.3690	0.1560
OH	0.3970	0.1590
OI	0.4170	0.1600
OJ	0.3470	0.1580
OK	0.3200	0.1540
OL	0.3420	0.1530
P	0.6400	0.1730
P1	0.5240	0.1350
P2	0.4960	0.1370
P3	0.3900	0.1350
PA	0.2580	0.1360
PB	0.3060	0.1580
PC	0.2720	0.1600
PD	0.3670	0.1630
PE	0.4160	0.1570
PF	0.3680	0.1540
PG	0.3590	0.1630
PH	0.3550	0.1640
PI	0.3730	0.1620
PJ	0.3700	0.1660
PK	0.2750	0.1520
PL	0.2770	0.1570
PM	0.2830	0.1620
Q	0.6760	0.1710
Q1	0.2580	0.1440
Q2	0.2930	0.1390
Q3	0.2010	0.1470
QB	0.2520	0.1570
QC	0.2820	0.1620
QD	0.3490	0.1570
QE	0.4130	0.1630
QF	0.3660	0.1540
QG	0.3480	0.1600
QH	0.3410	0.1650
QI	0.3840	0.1630
QJ	0.3640	0.1620
QK	0.3010	0.1580
QL	0.2780	0.1600
QM	0.2560	0.1580

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Chain	Atom inclusion	Q-score
R	0.6350	0.1630
R1	0.6630	0.2020
R2	0.6440	0.2020
R3	0.5640	0.2040
RB	0.2340	0.1650
RC	0.2270	0.1570
RD	0.2820	0.1640
RE	0.3670	0.1580
RF	0.3650	0.1650
RG	0.3010	0.1600
RH	0.3100	0.1580
RI	0.3410	0.1630
RJ	0.3500	0.1660
RK	0.3200	0.1590
RL	0.2350	0.1580
RM	0.2170	0.1610
S	0.4770	0.1900
SB	0.2760	0.1610
SC	0.2650	0.1610
SD	0.3250	0.1640
SE	0.4180	0.1600
SF	0.4410	0.1640
SG	0.3410	0.1560
SH	0.3410	0.1660
SI	0.3700	0.1650
SJ	0.3740	0.1610
SK	0.3970	0.1580
SL	0.2720	0.1600
SM	0.2470	0.1580
T	0.4340	0.1780
TB	0.2730	0.1490
TC	0.2740	0.1560
TD	0.3210	0.1570
TE	0.4150	0.1560
TF	0.4580	0.1610
TG	0.3950	0.1570
TH	0.3430	0.1650
TI	0.3530	0.1540
TJ	0.4280	0.1660
TK	0.4080	0.1630
TL	0.3390	0.1680
TM	0.2600	0.1630

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Chain	Atom inclusion	Q-score
TN	0.2880	0.1640
U	0.2150	0.1860
UA	0.3580	0.1630
UB	0.3640	0.1620
UC	0.4790	0.1650
UD	0.5280	0.1630
UE	0.4610	0.1600
UF	0.4560	0.1680
UG	0.4310	0.1630
UH	0.4770	0.1670
UI	0.4690	0.1620
UJ	0.4160	0.1650
UK	0.3410	0.1610
UL	0.3740	0.1620
V	0.0950	0.1710
VA	0.4450	0.1700
VB	0.4810	0.1720
VC	0.5070	0.1740
VD	0.5900	0.1710
VE	0.5640	0.1690
VF	0.5370	0.1730
VG	0.4920	0.1750
VH	0.5540	0.1760
VI	0.5520	0.1760
VJ	0.5150	0.1720
VK	0.4450	0.1700
VL	0.4510	0.1660
W	0.3430	0.1870
WA	0.5400	0.1700
WB	0.5970	0.1690
WC	0.5640	0.1710
WD	0.6310	0.1620
WE	0.6210	0.1670
WF	0.6110	0.1670
WG	0.5810	0.1740
WH	0.6200	0.1720
WI	0.5890	0.1680
WJ	0.6070	0.1670
WK	0.5220	0.1720
WL	0.5600	0.1640
X	0.3510	0.1800
XA	0.4960	0.1390

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Chain	Atom inclusion	Q-score
XB	0.6800	0.1950
XC	0.7550	0.1890
XD	0.6600	0.1910
XE	0.7020	0.1900
XF	0.6470	0.1900
XG	0.6660	0.1920
XH	0.5610	0.1750
XI	0.6540	0.1810
XJ	0.2680	0.1580
XK	0.6230	0.1780
XL	0.6780	0.1860
XM	0.6300	0.1800
Y	0.2510	0.1850
YA	0.0010	0.0790
YB	0.0110	0.1200
YC	0.0360	0.1600
YD	0.0330	0.1450
YE	0.0270	0.1190
YF	0.0540	0.1350
YG	0.0590	0.1550
YH	0.1030	0.1720
YI	0.0100	0.1270
YJ	0.0100	0.1240
YK	0.0070	0.1270
YL	0.0070	0.1340
YM	0.0450	0.1520
YN	0.1880	0.1620
YO	0.0040	0.0810
YP	0.0450	0.1060
YQ	0.0410	0.1490
YR	0.0020	0.1310
YS	0.0020	0.1090
YT	0.0060	0.1070
YU	0.0000	0.0980
YV	0.0070	0.1440
YW	0.0070	0.1310
Z	0.1720	0.1840
a	0.6790	0.2020