Full wwPDB EM Validation Report ⓘ

Mar 8, 2026 – 05:44 PM UTC

PDB ID	:	9E78 / pdb_00009e78
EMDB ID	:	EMD-47661
Title	:	48-nm repeat of the Leishmania tarentolae doublet microtubule
Authors	:	Doran, M.H.; Ren, P.; Hoog, J.L.; Brown, A.
Deposited on	:	2024-11-01
Resolution	:	2.90 Å(reported)
Based on initial model	:	.

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

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

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

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

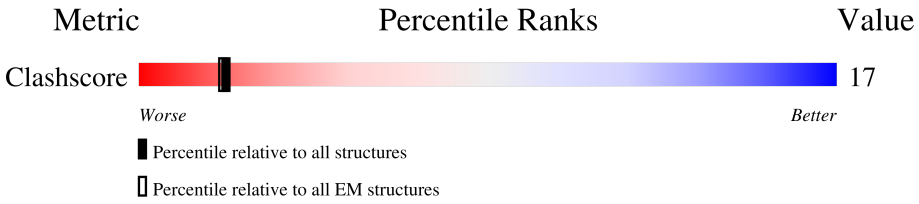
EMDB validation analysis	:	0.0.1.dev132
Mogul	:	2022.3.0, CSD as543be (2022)
MolProbity	:	4-5-2 with Phenix2.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data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

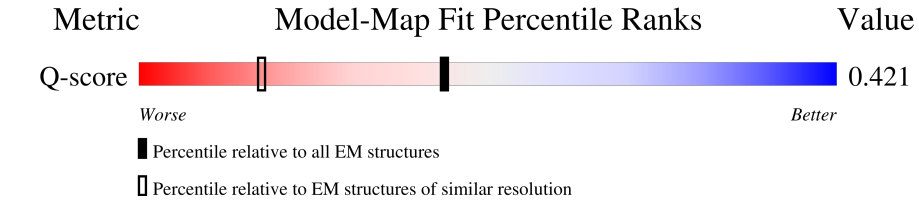
1 Overall quality at a glance

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

The reported resolution of this entry is 2.90 Å.

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





Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Q-score	-	25397	13054 (2.40 - 3.40)

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

Mol	Chain	Length	Quality of chain
1	A	443	57% 40% .
1	AB	443	. 55% 39% 5%
1	AD	443	61% 35% .
1	AF	443	58% 39% .
1	AH	443	61% 36% .
1	AJ	443	61% 36% .

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Mol	Chain	Length	Quality of chain
1	AL	443	62% 35%
1	AN	443	57% 37% 5%
1	B	443	63% 32% 6%
1	BB	443	62% 35%
1	BD	443	65% 32%
1	BF	443	62% 35%
1	BH	443	60% 36%
1	BJ	443	61% 35%
1	BL	443	61% 35%
1	BN	443	62% 35%
1	CA	443	57% 39%
1	CC	443	67% 30%
1	CE	443	59% 38%
1	CG	443	68% 29%
1	CI	443	60% 36%
1	CK	443	59% 38%
1	CM	443	57% 39%
1	DA	443	67% 30%
1	DC	443	63% 34%
1	DE	443	62% 35%
1	DG	443	65% 31%
1	DI	443	65% 32%
1	DK	443	62% 35%
1	DM	443	55% 42%
1	E	443	61% 36%

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Mol	Chain	Length	Quality of chain
1	EB	443	60% 37%
1	ED	443	64% 33%
1	EF	443	67% 30%
1	EH	443	61% 36%
1	EJ	443	65% 32%
1	EL	443	54% 43%
1	F	443	60% 37%
1	FB	443	62% 35%
1	FD	443	60% 36%
1	FF	443	58% 39%
1	FH	443	62% 35%
1	FJ	443	63% 34%
1	FL	443	61% 35%
1	G	443	5% 64% 33%
1	GB	443	58% 39%
1	GD	443	58% 38%
1	GF	443	60% 37%
1	GH	443	58% 39%
1	GJ	443	60% 36%
1	GL	443	59% 38%
1	H	443	5% 60% 36%
1	HB	443	60% 36%
1	HD	443	58% 39%
1	HF	443	60% 37%
1	HH	443	61% 35%

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Mol	Chain	Length	Quality of chain
1	HJ	443	60% 36%
1	HL	443	57% 40%
1	I	443	54% 43%
1	IB	443	64% 33%
1	ID	443	59% 38%
1	IF	443	60% 37%
1	IH	443	64% 33%
1	IJ	443	64% 33%
1	IL	443	56% 41%
1	JA	443	63% 34%
1	JC	443	61% 36%
1	JE	443	61% 35%
1	JG	443	64% 33%
1	JI	443	64% 33%
1	JK	443	51% 46%
1	JM	443	61% 35%
1	KA	443	66% 31%
1	KC	443	62% 35%
1	KE	443	59% 37%
1	KG	443	63% 34%
1	KI	443	63% 34%
1	KK	443	59% 38%
1	KM	443	59% 38%
1	LA	443	60% 37%
1	LC	443	61% 36%

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Mol	Chain	Length	Quality of chain
1	LE	443	58% 39%
1	LG	443	57% 40%
1	LI	443	57% 40%
1	LK	443	58% 39%
1	LM	443	58% 39%
1	LO	443	53% 44%
1	M	443	63% 34%
1	MB	443	60% 37%
1	MD	443	56% 41%
1	MF	443	57% 40%
1	MH	443	62% 35%
1	MJ	443	60% 37%
1	ML	443	63% 34%
1	MN	443	59% 38%
1	N	443	58% 37% 5%
1	NB	443	58% 37% 5%
1	ND	443	61% 35%
1	NF	443	57% 39%
1	NH	443	59% 37%
1	NJ	443	64% 33%
1	NL	443	55% 41%
1	O	443	54% 42%
1	OB	443	58% 38%
1	OD	443	60% 36%
1	OF	443	60% 37%

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Mol	Chain	Length	Quality of chain
1	OH	443	59% 37%
1	OJ	443	58% 39%
1	OL	443	50% 46%
1	P	443	57% 34% 9%
1	PB	443	65% 31%
1	PD	443	61% 36%
1	PF	443	64% 33%
1	PH	443	62% 34%
1	PJ	443	64% 33%
1	PL	443	54% 42%
1	QA	443	58% 38%
1	QC	443	61% 35%
1	QE	443	62% 34%
1	QG	443	64% 33%
1	QI	443	64% 32%
1	QK	443	58% 39%
1	RA	443	60% 36%
1	RC	443	62% 35%
1	RE	443	60% 37%
1	RG	443	62% 34%
1	RI	443	63% 33%
1	RK	443	63% 34%
1	S	443	64% 32%
1	SB	443	61% 35%
1	SD	443	58% 37%

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Mol	Chain	Length	Quality of chain
1	SF	443	59% 37%
1	SH	443	60% 36%
1	SJ	443	59% 37%
1	T	443	58% 39%
1	TB	443	60% 37%
1	TD	443	59% 37%
1	TF	443	57% 39%
1	TH	443	60% 36%
1	TJ	443	65% 32%
1	TL	443	56% 40%
1	U	443	60% 36%
1	UB	443	62% 34%
1	UD	443	62% 34%
1	UF	443	58% 38%
1	UH	443	63% 33%
1	UJ	443	69% 27%
1	UL	443	60% 36%
1	V	443	60% 36%
1	VB	443	62% 34%
1	VD	443	60% 36%
1	VF	443	67% 30%
1	VH	443	65% 31%
1	VJ	443	63% 33%
1	VL	443	60% 37%
1	W	443	62% 34%

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Mol	Chain	Length	Quality of chain
1	WB	443	62% 34%
1	WD	443	63% 33%
1	WF	443	61% 35%
1	WH	443	60% 36%
1	WJ	443	63% 33%
1	WL	443	63% 33%
2	AA	451	62% 34% 5%
2	AC	451	59% 37%
2	AE	451	61% 36%
2	AG	451	62% 34%
2	AI	451	61% 36%
2	AK	451	62% 35%
2	AM	451	63% 32% 5%
2	BA	451	60% 35% 5%
2	BC	451	56% 39% 5%
2	BE	451	64% 31% 5%
2	BG	451	59% 36% 5%
2	BI	451	60% 37%
2	BK	451	59% 36% 5%
2	BM	451	62% 33% 5%
2	C	451	62% 36%
2	CB	451	65% 32%
2	CD	451	59% 39%
2	CF	451	66% 30% 5%
2	CH	451	62% 35%

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Mol	Chain	Length	Quality of chain
2	CJ	451	64% 34%
2	CL	451	62% 35%
2	D	451	6% 62% 34% 5%
2	DB	451	63% 32% 5%
2	DD	451	68% 27% 5%
2	DF	451	64% 32%
2	DH	451	64% 32% 5%
2	DJ	451	62% 33% 5%
2	DL	451	59% 37% 5%
2	EA	451	67% 28% 5%
2	EC	451	65% 32%
2	EE	451	59% 37%
2	EG	451	61% 35%
2	EI	451	64% 32%
2	EK	451	64% 31%
2	FA	451	66% 31%
2	FC	451	61% 35%
2	FE	451	63% 33%
2	FG	451	61% 35%
2	FI	451	64% 31% 5%
2	FK	451	59% 37%
2	GA	451	63% 33% 5%
2	GC	451	57% 38% 5%
2	GE	451	61% 34%
2	GG	451	64% 31% 5%

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Mol	Chain	Length	Quality of chain
2	GI	451	60% 35% 5%
2	GK	451	60% 35% 5%
2	HA	451	56% 39% 5%
2	HC	451	59% 37% 5%
2	HE	451	64% 33%
2	HG	451	61% 34%
2	HI	451	61% 35%
2	HK	451	59% 37%
2	HM	451	57% 38% 5%
2	IA	451	58% 37% 5%
2	IC	451	62% 34%
2	IE	451	61% 36%
2	IG	451	60% 37%
2	II	451	62% 35%
2	IK	451	57% 38% 5%
2	IM	451	59% 36% 5%
2	J	451	54% 43%
2	JB	451	63% 34%
2	JD	451	62% 33% 5%
2	JF	451	61% 34% 5%
2	JH	451	59% 37%
2	JJ	451	61% 35%
2	JL	451	55% 41%
2	JN	451	54% 43%
2	K	451	62% 34%

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Mol	Chain	Length	Quality of chain
2	KB	451	60% 37%
2	KD	451	63% 32% 5%
2	KF	451	63% 34%
2	KH	451	56% 40%
2	KJ	451	61% 35%
2	KL	451	61% 37%
2	KN	451	63% 35%
2	L	451	68% 29%
2	LB	451	57% 38%
2	LD	451	62% 33% 5%
2	LF	451	61% 37%
2	LH	451	57% 40%
2	LJ	451	60% 37%
2	LL	451	64% 33%
2	LN	451	59% 37%
2	MA	451	63% 33%
2	MC	451	60% 37%
2	ME	451	59% 38%
2	MG	451	61% 36%
2	MI	451	60% 37%
2	MK	451	57% 40%
2	MM	451	58% 37%
2	NA	451	63% 35%
2	NC	451	5% 61% 37%
2	NE	451	62% 35%

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Mol	Chain	Length	Quality of chain
2	NG	451	66% 31%
2	NI	451	59% 38%
2	NK	451	62% 36%
2	NM	451	61% 37%
2	OA	451	57% 39%
2	OC	451	60% 36%
2	OE	451	60% 35%
2	OG	451	60% 37%
2	OI	451	62% 33% 5%
2	OK	451	57% 38% 5%
2	OM	451	50% 46%
2	PA	451	61% 35% 5%
2	PC	451	64% 31%
2	PE	451	61% 34%
2	PG	451	60% 37%
2	PI	451	58% 38%
2	PK	451	62% 34%
2	PM	451	56% 39%
2	Q	451	61% 36%
2	QB	451	59% 36% 5%
2	QD	451	56% 39% 5%
2	QF	451	60% 36% 5%
2	QH	451	59% 39%
2	QJ	451	57% 39%
2	QL	451	60% 36%

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Mol	Chain	Length	Quality of chain
2	R	451	62% 35%
2	RB	451	60% 35%
2	RD	451	60% 36%
2	RF	451	62% 33%
2	RH	451	61% 35% 5%
2	RJ	451	60% 35% 5%
2	RL	451	62% 34%
2	SA	451	57% 39%
2	SC	451	62% 33%
2	SE	451	65% 31%
2	SG	451	62% 33%
2	SI	451	62% 34% 5%
2	SK	451	56% 39%
2	TA	451	62% 34% 5%
2	TC	451	58% 37% 5%
2	TE	451	63% 33% 5%
2	TG	451	63% 32%
2	TI	451	63% 33% 5%
2	TK	451	56% 40%
2	UA	451	65% 30% 5%
2	UC	451	62% 33% 5%
2	UE	451	63% 33% 5%
2	UG	451	61% 34%
2	UI	451	62% 34% 5%
2	UK	451	60% 35% 5%

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Mol	Chain	Length	Quality of chain
2	VA	451	64% 31%
2	VC	451	61% 35%
2	VE	451	68% 27%
2	VG	451	62% 34%
2	VI	451	65% 31%
2	VK	451	60% 35% 5%
2	VM	451	59% 37%
2	WA	451	63% 34%
2	WC	451	58% 38%
2	WE	451	63% 35%
2	WG	451	61% 34%
2	WI	451	63% 34%
2	WK	451	64% 31%
2	WM	451	66% 31%
3	X	214	65% 21% 14%
3	XA	214	56% 29% 14%
3	XB	214	50% 36% 14%
3	XC	214	55% 31% 14%
3	XD	214	53% 33% 14%
3	XE	214	54% 32% 14%
3	XF	214	57% 29% 14%
4	XM	310	61% 23% 16%
4	XO	310	57% 27% 16%
4	XQ	310	61% 23% 16%
4	XR	310	61% 23% 16%

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Mol	Chain	Length	Quality of chain
5	XN	314	61% 25% 14%
5	XP	314	61% 25% 14%
6	0	264	65% 32%
6	0A	264	64% 34%
7	0C	408	20% 10% 70%
7	0D	408	59% 28% 13%
8	0F	480	28% 9% 63%
8	0G	480	52% 20% 27%
8	0H	480	94%
8	0I	480	43% 16% 41%
8	0J	480	5% 35% 12% 53%
9	0L	629	65% 34%
9	0M	629	62% 37%
9	0N	629	61% 38%
9	0O	629	31% 19% 51%
10	0R	490	42% 21% 37%
10	0S	490	34% 11% 55%
11	0U	337	67% 32%
12	0W	343	74% 25%
13	0Y	279	68% 15% 16%
13	0Z	279	66% 18% 16%
13	0a	279	16% 5% 79%
14	0c	370	43% 21% 36%
14	0d	370	49% 22% 28%
15	0f	277	35% 23% 42%

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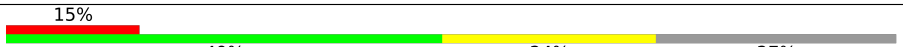
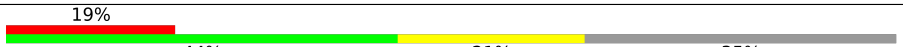
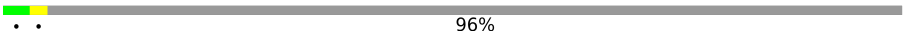
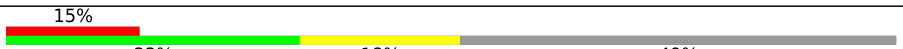
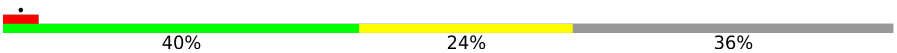
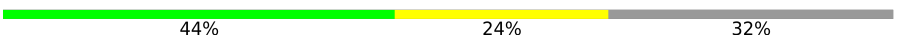
Mol	Chain	Length	Quality of chain
15	0g	277	
16	0k	979	
16	0l	979	
17	0m	446	
17	0n	446	
17	0o	446	
18	0p	305	
19	0r	306	
20	0t	295	
20	0u	295	
21	0v	533	
21	0w	533	
21	0x	533	
22	0z	282	
22	1w	282	
22	1x	282	
22	1y	282	
23	1A	397	
23	1B	397	
23	1D	397	
23	1E	397	
23	1F	397	
24	1H	756	
24	1I	756	
24	1J	756	

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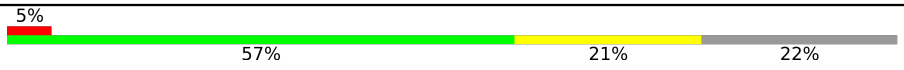
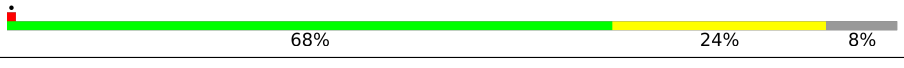
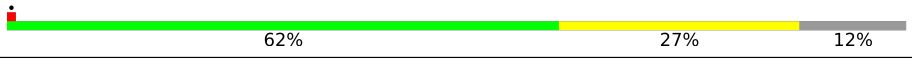
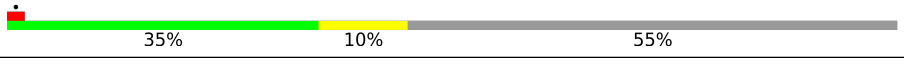
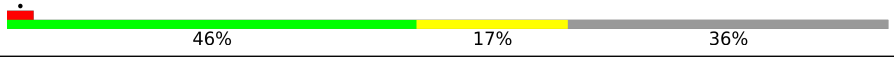
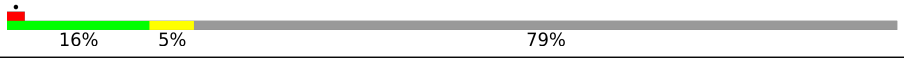
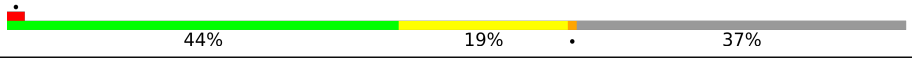
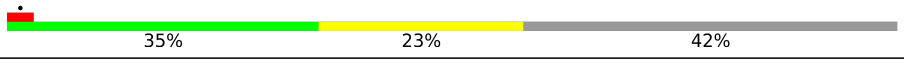
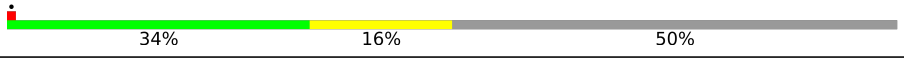
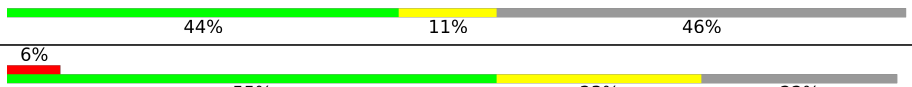
Mol	Chain	Length	Quality of chain
24	1K	756	
25	1O	774	
26	1Q	741	
27	1S	861	
27	1T	861	
28	1U	266	
28	1V	266	
28	1X	266	
28	1Y	266	
28	1a	266	
28	1b	266	
28	1c	266	
28	1d	266	
28	1e	266	
28	1g	266	
28	1h	266	
28	4V	266	
28	4W	266	
29	1j	226	
29	1k	226	
29	1l	226	
29	1m	226	
30	1o	236	
31	1q	275	
31	1r	275	

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Mol	Chain	Length	Quality of chain
31	1s	275	13% 52% 15% 33%
31	1t	275	8% 23% 5% 73%
32	2B	289	62% 25% 13%
32	2C	289	56% 24% 20%
33	2F	312	67% 24% 9%
33	2G	312	59% 32% 9%
33	2H	312	65% 27% 8%
33	2I	312	56% 21% 22%
34	2L	311	37% 18% 45%
35	2N	314	30% 13% 57%
35	2O	314	29% 22% 49%
36	2Q	338	63% 23% 14%
37	2S	358	45% 22% 34%
38	2U	352	40% 25% 35%
38	2V	352	23% 8% 69%
39	2X	352	50% 14% 36%
40	2Z	371	51% 25% 24%
41	2b	360	29% 5% 66%
41	2c	360	52% 16% 32%
41	2e	360	65% 25% 10%
41	2f	360	11% 86%
41	2h	360	48% 18% 34%
41	2i	360	31% 10% 59%
41	2k	360	36% 10% 54%
41	2l	360	54% 19% 27%

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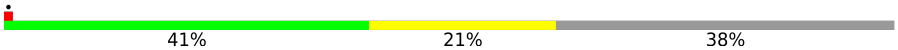
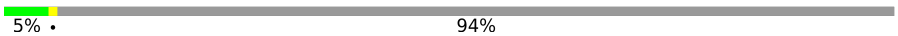
Mol	Chain	Length	Quality of chain
41	2n	360	
41	2o	360	
41	2p	360	
42	2r	410	
43	2t	343	
44	2v	413	
44	2w	413	
45	2y	430	
45	2z	430	
46	3B	439	
47	3D	457	
48	3F	468	
48	3G	468	
48	3H	468	
48	3I	468	
48	3L	468	
48	3M	468	
49	3P	588	
49	3Q	588	
50	3S	176	
51	X1	308	
52	3U	409	
53	3W	373	
53	3X	373	
54	3Z	443	

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Mol	Chain	Length	Quality of chain
54	3a	443	13% 7% 80%
54	4Y	443	96%
55	3b	183	60% 15% 26%
56	3d	261	5% 44% 12% 43%
57	3f	197	53% 30% 16%
57	3g	197	61% 23% 16%
57	3h	197	5% 62% 21% 16%
57	3i	197	46% 37% 16%
58	3m	195	56% 18% 26%
59	3o	306	13% 5% 82%
59	3p	306	34% 14% 52%
59	4O	306	42% 14% 43%
59	4P	306	18% 77%
59	4a	306	35% 15% 50%
59	4b	306	20% 77%
60	3r	158	56% 27% 18%
60	3s	158	51% 30% 18%
60	3t	158	28% 11% 60%
61	3w	288	42% 16% 42%
61	3x	288	34% 9% 56%
62	4A	480	94%
62	4B	480	30% 12% 58%
63	4I	590	5% 8% 5% 87%
64	5B	675	18% 7% 75%
64	5C	675	17% 8% 75%

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Mol	Chain	Length	Quality of chain
64	5D	675	94%
65	5G	617	20% 10% 70%
65	5H	617	18% 12% 70%
65	5I	617	6% 92%
66	5K	492	37% 17% 46%
66	5L	492	33% 21% 46%
67	5O	111	56% 41%
67	5P	111	18% 50% 46%
68	5S	176	5% 35% 16% 48%
68	5T	176	10% 38% 15% 48%

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
72	ZN	1b	301	-	-	X	-

2 Entry composition (i)

There are 74 unique types of molecules in this entry. The entry contains 1371722 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Tubulin beta chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	AB	419	Total	C	N	O	S	0	0
			3283	2056	560	636	31		
1	AD	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	AF	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	AH	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	AJ	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	AL	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	AN	419	Total	C	N	O	S	0	0
			3283	2056	560	636	31		
1	B	418	Total	C	N	O	S	0	0
			3270	2039	564	637	30		
1	BB	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	BD	430	Total	C	N	O	S	0	0
			3370	2106	579	653	32		
1	BF	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	BH	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	BJ	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	BL	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	BN	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	CA	424	Total	C	N	O	S	0	0
			3319	2076	568	643	32		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	CC	430	Total 3370	C 2106	N 579	O 653	S 32	0	0
1	CE	430	Total 3370	C 2106	N 579	O 653	S 32	0	0
1	CG	430	Total 3370	C 2106	N 579	O 653	S 32	0	0
1	CI	429	Total 3362	C 2101	N 578	O 652	S 31	0	0
1	CK	429	Total 3362	C 2101	N 578	O 652	S 31	0	0
1	CM	429	Total 3362	C 2101	N 578	O 652	S 31	0	0
1	DA	429	Total 3362	C 2101	N 578	O 652	S 31	0	0
1	DC	429	Total 3362	C 2101	N 578	O 652	S 31	0	0
1	DE	429	Total 3362	C 2101	N 578	O 652	S 31	0	0
1	DG	429	Total 3362	C 2101	N 578	O 652	S 31	0	0
1	DI	429	Total 3362	C 2101	N 578	O 652	S 31	0	0
1	DK	429	Total 3362	C 2101	N 578	O 652	S 31	0	0
1	DM	429	Total 3362	C 2101	N 578	O 652	S 31	0	0
1	E	430	Total 3370	C 2106	N 579	O 653	S 32	0	0
1	EB	430	Total 3370	C 2106	N 579	O 653	S 32	0	0
1	ED	430	Total 3370	C 2106	N 579	O 653	S 32	0	0
1	EF	430	Total 3370	C 2106	N 579	O 653	S 32	0	0
1	EH	430	Total 3370	C 2106	N 579	O 653	S 32	0	0
1	EJ	430	Total 3370	C 2106	N 579	O 653	S 32	0	0
1	EL	429	Total 3362	C 2101	N 578	O 652	S 31	0	0
1	F	429	Total 3362	C 2101	N 578	O 652	S 31	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	FB	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	FD	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	FF	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	FH	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	FJ	429	Total	C	N	O	S	0	0
			3361	2100	578	652	31		
1	FL	426	Total	C	N	O	S	0	0
			3343	2089	575	648	31		
1	G	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	GB	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	GD	426	Total	C	N	O	S	0	0
			3343	2089	575	648	31		
1	GF	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	GH	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	GJ	425	Total	C	N	O	S	0	0
			3335	2085	574	645	31		
1	GL	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	H	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	HB	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	HD	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	HF	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	HH	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	HJ	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	HL	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	I	430	Total	C	N	O	S	0	0
			3370	2106	579	653	32		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	IB	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	ID	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	IF	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	IH	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	IJ	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	IL	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	JA	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	JC	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	JE	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	JG	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	JI	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	JK	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	JM	426	Total	C	N	O	S	0	0
			3343	2089	575	648	31		
1	KA	430	Total	C	N	O	S	0	0
			3370	2106	579	653	32		
1	KC	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	KE	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	KG	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	KI	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	KK	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	KM	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	LA	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	LC	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	LE	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	LG	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	LI	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	LK	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	LM	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	LO	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	M	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	MB	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	MD	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	MF	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	MH	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	MJ	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	ML	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	MN	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	N	420	Total	C	N	O	S	0	0
			3290	2060	561	638	31		
1	NB	420	Total	C	N	O	S	0	0
			3290	2060	561	638	31		
1	ND	427	Total	C	N	O	S	0	0
			3348	2092	576	649	31		
1	NF	427	Total	C	N	O	S	0	0
			3348	2092	576	649	31		
1	NH	426	Total	C	N	O	S	0	0
			3343	2089	575	648	31		
1	NJ	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	NL	426	Total	C	N	O	S	0	0
			3343	2089	575	648	31		
1	O	426	Total	C	N	O	S	0	0
			3343	2089	575	648	31		
1	OB	425	Total	C	N	O	S	0	0
			3335	2085	574	645	31		
1	OD	426	Total	C	N	O	S	0	0
			3343	2089	575	648	31		
1	OF	426	Total	C	N	O	S	0	0
			3343	2089	575	648	31		
1	OH	426	Total	C	N	O	S	0	0
			3343	2089	575	648	31		
1	OJ	426	Total	C	N	O	S	0	0
			3343	2089	575	648	31		
1	OL	426	Total	C	N	O	S	0	0
			3343	2089	575	648	31		
1	P	401	Total	C	N	O	S	0	0
			3123	1946	540	609	28		
1	PB	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	PD	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	PF	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	PH	426	Total	C	N	O	S	0	0
			3342	2089	575	647	31		
1	PJ	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	PL	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	QA	427	Total	C	N	O	S	0	0
			3348	2092	576	649	31		
1	QC	427	Total	C	N	O	S	0	0
			3348	2092	576	649	31		
1	QE	426	Total	C	N	O	S	0	0
			3343	2089	575	648	31		
1	QG	427	Total	C	N	O	S	0	0
			3348	2092	576	649	31		
1	QI	427	Total	C	N	O	S	0	0
			3348	2092	576	649	31		
1	QK	427	Total	C	N	O	S	0	0
			3348	2092	576	649	31		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	RA	426	Total	C	N	O	S	0	0
			3343	2089	575	648	31		
1	RC	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	RE	426	Total	C	N	O	S	0	0
			3343	2089	575	648	31		
1	RG	426	Total	C	N	O	S	0	0
			3343	2089	575	648	31		
1	RI	426	Total	C	N	O	S	0	0
			3342	2088	575	648	31		
1	RK	428	Total	C	N	O	S	0	0
			3355	2096	577	651	31		
1	S	425	Total	C	N	O	S	0	0
			3335	2085	574	645	31		
1	SB	425	Total	C	N	O	S	0	0
			3335	2085	574	645	31		
1	SD	425	Total	C	N	O	S	0	0
			3335	2085	574	645	31		
1	SF	425	Total	C	N	O	S	0	0
			3335	2085	574	645	31		
1	SH	428	Total	C	N	O	S	0	0
			3355	2096	577	651	31		
1	SJ	427	Total	C	N	O	S	0	0
			3348	2092	576	649	31		
1	T	427	Total	C	N	O	S	0	0
			3348	2092	576	649	31		
1	TB	428	Total	C	N	O	S	0	0
			3355	2096	577	651	31		
1	TD	426	Total	C	N	O	S	0	0
			3343	2089	575	648	31		
1	TF	427	Total	C	N	O	S	0	0
			3348	2092	576	649	31		
1	TH	426	Total	C	N	O	S	0	0
			3343	2089	575	648	31		
1	TJ	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	TL	427	Total	C	N	O	S	0	0
			3348	2092	576	649	31		
1	U	425	Total	C	N	O	S	0	0
			3335	2085	574	645	31		
1	UB	425	Total	C	N	O	S	0	0
			3335	2085	574	645	31		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	UD	425	Total	C	N	O	S	0	0
			3335	2085	574	645	31		
1	UF	425	Total	C	N	O	S	0	0
			3335	2085	574	645	31		
1	UH	425	Total	C	N	O	S	0	0
			3335	2085	574	645	31		
1	UJ	427	Total	C	N	O	S	0	0
			3348	2092	576	649	31		
1	UL	426	Total	C	N	O	S	0	0
			3343	2089	575	648	31		
1	V	428	Total	C	N	O	S	0	0
			3355	2096	577	651	31		
1	VB	426	Total	C	N	O	S	0	0
			3343	2089	575	648	31		
1	VD	427	Total	C	N	O	S	0	0
			3348	2092	576	649	31		
1	VF	428	Total	C	N	O	S	0	0
			3355	2096	577	651	31		
1	VH	425	Total	C	N	O	S	0	0
			3335	2085	574	645	31		
1	VJ	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	VL	429	Total	C	N	O	S	0	0
			3362	2101	578	652	31		
1	W	425	Total	C	N	O	S	0	0
			3335	2085	574	645	31		
1	WB	425	Total	C	N	O	S	0	0
			3335	2085	574	645	31		
1	WD	425	Total	C	N	O	S	0	0
			3335	2085	574	645	31		
1	WF	427	Total	C	N	O	S	0	0
			3348	2092	576	649	31		
1	WH	425	Total	C	N	O	S	0	0
			3335	2085	574	645	31		
1	WJ	425	Total	C	N	O	S	0	0
			3335	2085	574	645	31		
1	WL	426	Total	C	N	O	S	0	0
			3343	2089	575	648	31		

- Molecule 2 is a protein called Tubulin alpha chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	AA	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	AC	433	Total	C	N	O	S	0	0
			3353	2117	570	643	23		
2	AE	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	AG	433	Total	C	N	O	S	0	0
			3352	2116	571	642	23		
2	AI	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	AK	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	AM	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	BA	429	Total	C	N	O	S	0	0
			3322	2098	566	635	23		
2	BC	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	BE	429	Total	C	N	O	S	0	0
			3322	2098	566	635	23		
2	BG	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	BI	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	BK	429	Total	C	N	O	S	0	0
			3322	2098	566	635	23		
2	BM	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	C	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	CB	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	CD	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	CF	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	CH	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	CJ	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	CL	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	D	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	DB	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	DD	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	DF	431	Total	C	N	O	S	0	0
			3337	2107	568	639	23		
2	DH	430	Total	C	N	O	S	0	0
			3328	2102	567	636	23		
2	DJ	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	DL	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	EA	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	EC	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	EE	432	Total	C	N	O	S	0	0
			3346	2112	569	642	23		
2	EG	433	Total	C	N	O	S	0	0
			3351	2114	570	644	23		
2	EI	431	Total	C	N	O	S	0	0
			3337	2107	568	639	23		
2	EK	431	Total	C	N	O	S	0	0
			3337	2107	568	639	23		
2	FA	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	FC	434	Total	C	N	O	S	0	0
			3360	2119	571	647	23		
2	FE	432	Total	C	N	O	S	0	0
			3343	2110	569	641	23		
2	FG	431	Total	C	N	O	S	0	0
			3337	2107	568	639	23		
2	FI	429	Total	C	N	O	S	0	0
			3322	2098	566	635	23		
2	FK	431	Total	C	N	O	S	0	0
			3337	2107	568	639	23		
2	GA	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	GC	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	GE	431	Total	C	N	O	S	0	0
			3337	2107	568	639	23		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	GG	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	GI	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	GK	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	HA	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	HC	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	HE	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	HG	432	Total	C	N	O	S	0	0
			3343	2110	569	641	23		
2	HI	431	Total	C	N	O	S	0	0
			3336	2106	568	639	23		
2	HK	432	Total	C	N	O	S	0	0
			3343	2110	569	641	23		
2	HM	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	IA	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	IC	432	Total	C	N	O	S	0	0
			3343	2110	569	641	23		
2	IE	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	IG	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	II	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	IK	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	IM	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	J	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	JB	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	JD	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	JF	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	JH	432	Total	C	N	O	S	0	0
			3342	2110	569	640	23		
2	JJ	432	Total	C	N	O	S	0	0
			3343	2110	569	641	23		
2	JL	432	Total	C	N	O	S	0	0
			3343	2110	569	641	23		
2	JN	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	K	434	Total	C	N	O	S	0	0
			3358	2119	572	643	24		
2	KB	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	KD	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	KF	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	KH	431	Total	C	N	O	S	0	0
			3335	2106	568	638	23		
2	KJ	432	Total	C	N	O	S	0	0
			3346	2112	569	642	23		
2	KL	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	KN	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	L	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	LB	432	Total	C	N	O	S	0	0
			3346	2112	569	642	23		
2	LD	429	Total	C	N	O	S	0	0
			3322	2097	566	637	22		
2	LF	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	LH	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	LJ	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	LL	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	LN	432	Total	C	N	O	S	0	0
			3346	2112	569	642	23		
2	MA	431	Total	C	N	O	S	0	0
			3335	2106	568	638	23		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	MC	437	Total	C	N	O	S	0	0
			3379	2133	575	647	24		
2	ME	436	Total	C	N	O	S	0	0
			3368	2124	573	647	24		
2	MG	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	MI	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	MK	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	MM	431	Total	C	N	O	S	0	0
			3335	2106	568	638	23		
2	NA	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	NC	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	NE	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	NG	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	NI	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	NK	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	NM	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	OA	432	Total	C	N	O	S	0	0
			3343	2110	569	641	23		
2	OC	431	Total	C	N	O	S	0	0
			3337	2107	568	639	23		
2	OE	431	Total	C	N	O	S	0	0
			3337	2107	568	639	23		
2	OG	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	OI	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	OK	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	OM	433	Total	C	N	O	S	0	0
			3352	2115	570	644	23		
2	PA	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	PC	431	Total	C	N	O	S	0	0
			3337	2107	568	639	23		
2	PE	431	Total	C	N	O	S	0	0
			3337	2107	568	639	23		
2	PG	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	PI	431	Total	C	N	O	S	0	0
			3337	2107	568	639	23		
2	PK	432	Total	C	N	O	S	0	0
			3343	2110	569	641	23		
2	PM	432	Total	C	N	O	S	0	0
			3343	2110	569	641	23		
2	Q	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	QB	429	Total	C	N	O	S	0	0
			3323	2100	566	634	23		
2	QD	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	QF	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	QH	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	QJ	431	Total	C	N	O	S	0	0
			3337	2107	568	639	23		
2	QL	432	Total	C	N	O	S	0	0
			3343	2110	569	641	23		
2	R	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	RB	431	Total	C	N	O	S	0	0
			3337	2107	568	639	23		
2	RD	431	Total	C	N	O	S	0	0
			3337	2107	568	639	23		
2	RF	431	Total	C	N	O	S	0	0
			3337	2107	568	639	23		
2	RH	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	RJ	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	RL	431	Total	C	N	O	S	0	0
			3335	2106	568	638	23		
2	SA	431	Total	C	N	O	S	0	0
			3337	2107	568	639	23		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	SC	431	Total	C	N	O	S	0	0
			3335	2106	568	638	23		
2	SE	431	Total	C	N	O	S	0	0
			3335	2106	568	638	23		
2	SG	431	Total	C	N	O	S	0	0
			3337	2107	568	639	23		
2	SI	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	SK	432	Total	C	N	O	S	0	0
			3343	2110	569	641	23		
2	TA	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	TC	428	Total	C	N	O	S	0	0
			3314	2093	565	634	22		
2	TE	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	TG	431	Total	C	N	O	S	0	0
			3337	2107	568	639	23		
2	TI	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	TK	433	Total	C	N	O	S	0	0
			3353	2117	570	643	23		
2	UA	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	UC	429	Total	C	N	O	S	0	0
			3322	2097	566	637	22		
2	UE	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	UG	431	Total	C	N	O	S	0	0
			3337	2107	568	639	23		
2	UI	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	UK	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	VA	431	Total	C	N	O	S	0	0
			3337	2107	568	639	23		
2	VC	431	Total	C	N	O	S	0	0
			3337	2107	568	639	23		
2	VE	431	Total	C	N	O	S	0	0
			3337	2107	568	639	23		
2	VG	431	Total	C	N	O	S	0	0
			3337	2107	568	639	23		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	VI	432	Total	C	N	O	S	0	0
			3342	2109	569	641	23		
2	VK	430	Total	C	N	O	S	0	0
			3329	2103	567	636	23		
2	VM	434	Total	C	N	O	S	0	0
			3360	2119	571	647	23		
2	WA	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	WC	431	Total	C	N	O	S	0	0
			3337	2107	568	639	23		
2	WE	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	WG	431	Total	C	N	O	S	0	0
			3337	2107	568	639	23		
2	WI	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		
2	WK	431	Total	C	N	O	S	0	0
			3337	2107	568	639	23		
2	WM	439	Total	C	N	O	S	0	0
			3394	2141	577	652	24		

- Molecule 3 is a protein called CFAP20.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	X	183	Total	C	N	O	S	0	0
			1510	965	264	270	11		
3	XA	183	Total	C	N	O	S	0	0
			1510	965	264	270	11		
3	XB	183	Total	C	N	O	S	0	0
			1510	965	264	270	11		
3	XC	183	Total	C	N	O	S	0	0
			1510	965	264	270	11		
3	XD	183	Total	C	N	O	S	0	0
			1510	965	264	270	11		
3	XE	183	Total	C	N	O	S	0	0
			1510	965	264	270	11		
3	XF	183	Total	C	N	O	S	0	0
			1510	965	264	270	11		

- Molecule 4 is a protein called PACRGA.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	XM	259	Total	C	N	O	S	0	0
			2045	1307	360	370	8		
4	XO	260	Total	C	N	O	S	0	0
			2053	1311	361	373	8		
4	XQ	260	Total	C	N	O	S	0	0
			2053	1311	361	373	8		
4	XR	260	Total	C	N	O	S	0	0
			2056	1313	364	371	8		

- Molecule 5 is a protein called PACRGB.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	XN	269	Total	C	N	O	S	0	0
			2116	1359	366	384	7		
5	XP	269	Total	C	N	O	S	0	0
			2116	1359	366	384	7		

- Molecule 6 is a protein called CCDC81.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	0A	257	Total	C	N	O	S	0	0
			2004	1261	359	371	13		
6	0	257	Total	C	N	O	S	0	0
			2004	1261	359	371	13		

- Molecule 7 is a protein called CFAP21.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	0C	121	Total	C	N	O	S	0	0
			935	584	159	188	4		
7	0D	354	Total	C	N	O	S	0	0
			2723	1683	492	537	11		

- Molecule 8 is a protein called CFAP45.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	0F	176	Total	C	N	O	S	0	0
			1439	859	288	280	12		
8	0G	349	Total	C	N	O	S	0	0
			2955	1772	596	570	17		
8	0H	28	Total	C	N	O		0	0
			229	146	41	42			

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Mol	Chain	Residues	Atoms					AltConf	Trace
8	0I	285	Total	C	N	O	S	0	0
			2369	1421	471	459	18		
8	0J	226	Total	C	N	O	S	0	0
			1906	1147	379	373	7		

- Molecule 9 is a protein called CFAP52.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	0L	624	Total	C	N	O	S	0	0
			4757	2973	844	908	32		
9	0M	624	Total	C	N	O	S	0	0
			4757	2973	844	908	32		
9	0N	624	Total	C	N	O	S	0	0
			4757	2973	844	908	32		
9	0O	310	Total	C	N	O	S	0	0
			2357	1482	416	445	14		

- Molecule 10 is a protein called CFAP53.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	0R	309	Total	C	N	O	S	0	0
			2628	1579	535	501	13		
10	0S	221	Total	C	N	O	S	0	0
			1874	1148	360	359	7		

- Molecule 11 is a protein called CFAP67A.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	0U	333	Total	C	N	O	S	0	0
			2570	1621	437	495	17		

- Molecule 12 is a protein called CFAP67B.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	0W	339	Total	C	N	O	S	0	0
			2595	1647	427	501	20		

- Molecule 13 is a protein called CFAP106A.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	0Y	233	Total	C	N	O	S	0	0
			1836	1152	334	345	5		

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Mol	Chain	Residues	Atoms	AltConf	Trace
13	0Z	235	Total C N O S 1849 1160 337 347 5	0	0
13	0a	58	Total C N O 422 263 78 81	0	0

- Molecule 14 is a protein called CFAP106B.

Mol	Chain	Residues	Atoms	AltConf	Trace
14	0c	237	Total C N O S 1929 1221 337 362 9	0	0
14	0d	265	Total C N O S 2150 1359 378 404 9	0	0

- Molecule 15 is a protein called CFAP107.

Mol	Chain	Residues	Atoms	AltConf	Trace
15	0f	160	Total C N O S 1257 783 222 241 11	0	0
15	0g	30	Total C N O S 218 137 34 46 1	0	0

- Molecule 16 is a protein called CFAP115.

Mol	Chain	Residues	Atoms	AltConf	Trace
16	0l	640	Total C N O S 5045 3192 918 914 21	0	0
16	0k	710	Total C N O S 5599 3537 1026 1009 27	0	0

- Molecule 17 is a protein called CFAP127.

Mol	Chain	Residues	Atoms	AltConf	Trace
17	0m	142	Total C N O S 1155 704 220 227 4	0	0
17	0n	406	Total C N O S 3388 2054 668 654 12	0	0
17	0o	20	Total C N O 171 107 35 29	0	0

- Molecule 18 is a protein called CFAP141.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	0p	108	Total	C	N	O	S	0	0
			906	557	177	169	3		

- Molecule 19 is a protein called CFAP143.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	0r	254	Total	C	N	O	S	0	0
			2033	1246	376	396	15		

- Molecule 20 is a protein called CFAP161.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	0t	262	Total	C	N	O	S	0	0
			2062	1298	358	388	18		
20	0u	227	Total	C	N	O	S	0	0
			1769	1117	306	330	16		

- Molecule 21 is a protein called CFAP210.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	0w	449	Total	C	N	O	S	0	0
			3715	2242	741	724	8		
21	0x	111	Total	C	N	O	S	0	0
			906	556	175	172	3		
21	0v	73	Total	C	N	O		0	0
			582	351	115	116			

- Molecule 22 is a protein called DMIP5.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	0z	143	Total	C	N	O	S	0	0
			1160	716	220	219	5		
22	1w	180	Total	C	N	O	S	0	0
			1481	915	278	281	7		
22	1x	206	Total	C	N	O	S	0	0
			1680	1031	322	315	12		
22	1y	91	Total	C	N	O	S	0	0
			722	449	130	141	2		

- Molecule 23 is a protein called RIB43.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	1A	270	Total	C	N	O	S	0	0
			2286	1390	449	436	11		
23	1B	195	Total	C	N	O	S	0	0
			1667	1015	321	322	9		
23	1D	54	Total	C	N	O	S	0	0
			464	285	91	85	3		
23	1E	362	Total	C	N	O	S	0	0
			3050	1855	590	590	15		
23	1F	74	Total	C	N	O	S	0	0
			635	387	120	124	4		

- Molecule 24 is a protein called RIB72A.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	1H	588	Total	C	N	O	S	0	0
			4698	2967	812	900	19		
24	1I	659	Total	C	N	O	S	0	0
			5276	3326	920	1003	27		
24	1J	670	Total	C	N	O	S	0	0
			5356	3372	940	1018	26		
24	1K	588	Total	C	N	O	S	0	0
			4697	2966	812	900	19		

- Molecule 25 is a protein called RIB72B.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	1O	710	Total	C	N	O	S	0	0
			5751	3614	1021	1096	20		

- Molecule 26 is a protein called RIB72C.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	1Q	655	Total	C	N	O	S	0	0
			5263	3323	927	988	25		

- Molecule 27 is a protein called RIB72D.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	1S	726	Total	C	N	O	S	0	0
			5834	3696	1029	1076	33		
27	1T	222	Total	C	N	O	S	0	0
			1787	1125	315	335	12		

- Molecule 28 is a protein called DMIP1.

Mol	Chain	Residues	Atoms	AltConf	Trace
28	1U	120	Total C N O S 942 594 162 181 5	0	0
28	1V	48	Total C N O S 371 229 68 69 5	0	0
28	1X	120	Total C N O S 942 594 162 181 5	0	0
28	1Y	169	Total C N O S 1325 829 237 252 7	0	0
28	1a	57	Total C N O S 446 279 80 84 3	0	0
28	1b	168	Total C N O S 1313 823 230 250 10	0	0
28	1c	35	Total C N O S 263 162 50 46 5	0	0
28	1d	120	Total C N O S 942 594 162 181 5	0	0
28	1e	48	Total C N O S 371 229 68 69 5	0	0
28	1g	120	Total C N O S 942 594 162 181 5	0	0
28	1h	155	Total C N O S 1218 767 214 230 7	0	0
28	4V	62	Total C N O S 486 305 86 91 4	0	0
28	4W	188	Total C N O S 1474 927 255 283 9	0	0

- Molecule 29 is a protein called DMIP2.

Mol	Chain	Residues	Atoms	AltConf	Trace
29	1j	113	Total C N O S 909 584 153 168 4	0	0
29	1k	103	Total C N O S 801 502 140 157 2	0	0
29	1l	113	Total C N O S 909 584 153 168 4	0	0
29	1m	53	Total C N O S 420 268 72 78 2	0	0

- Molecule 30 is a protein called DMIP3.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	1o	128	Total	C	N	O	S	0	0
			1035	645	193	192	5		

- Molecule 31 is a protein called DMIP4.

Mol	Chain	Residues	Atoms					AltConf	Trace
31	1q	214	Total	C	N	O	S	0	0
			1679	1025	322	321	11		
31	1r	106	Total	C	N	O	S	0	0
			868	532	166	165	5		
31	1s	183	Total	C	N	O	S	0	0
			1446	884	273	277	12		
31	1t	75	Total	C	N	O	S	0	0
			618	372	125	116	5		

- Molecule 32 is a protein called DMIP6.

Mol	Chain	Residues	Atoms					AltConf	Trace
32	2B	251	Total	C	N	O	S	0	0
			1977	1231	357	377	12		
32	2C	230	Total	C	N	O	S	0	0
			1814	1130	329	344	11		

- Molecule 33 is a protein called DMIP7.

Mol	Chain	Residues	Atoms					AltConf	Trace
33	2F	284	Total	C	N	O	S	0	0
			2253	1411	411	418	13		
33	2G	283	Total	C	N	O	S	0	0
			2245	1407	409	416	13		
33	2H	288	Total	C	N	O	S	0	0
			2281	1428	416	424	13		
33	2I	243	Total	C	N	O	S	0	0
			1937	1208	355	363	11		

- Molecule 34 is a protein called DMIP8.

Mol	Chain	Residues	Atoms					AltConf	Trace
34	2L	172	Total	C	N	O	S	0	0
			1433	904	254	269	6		

- Molecule 35 is a protein called DMIP9.

Mol	Chain	Residues	Atoms					AltConf	Trace
35	2N	135	Total	C	N	O	S	0	0
			1103	698	208	194	3		
35	2O	161	Total	C	N	O	S	0	0
			1324	827	251	240	6		

- Molecule 36 is a protein called DMIP10.

Mol	Chain	Residues	Atoms					AltConf	Trace
36	2Q	291	Total	C	N	O	S	0	0
			2320	1483	394	429	14		

- Molecule 37 is a protein called DMIP11.

Mol	Chain	Residues	Atoms					AltConf	Trace
37	2S	237	Total	C	N	O	S	0	0
			1800	1127	317	341	15		

- Molecule 38 is a protein called DMIP12.

Mol	Chain	Residues	Atoms					AltConf	Trace
38	2U	229	Total	C	N	O	S	0	0
			1807	1111	329	355	12		
38	2V	109	Total	C	N	O	S	0	0
			870	530	167	169	4		

- Molecule 39 is a protein called DMIP13.

Mol	Chain	Residues	Atoms					AltConf	Trace
39	2X	227	Total	C	N	O	S	0	0
			1774	1081	355	328	10		

- Molecule 40 is a protein called DMIP14.

Mol	Chain	Residues	Atoms					AltConf	Trace
40	2Z	283	Total	C	N	O	S	0	0
			2258	1427	412	414	5		

- Molecule 41 is a protein called DMIP15.

Mol	Chain	Residues	Atoms					AltConf	Trace
41	2b	121	Total	C	N	O	S	0	0
			1006	613	195	194	4		

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Mol	Chain	Residues	Atoms	AltConf	Trace
41	2c	245	Total C N O S 2092 1254 418 408 12	0	0
41	2e	325	Total C N O S 2735 1649 546 526 14	0	0
41	2f	52	Total C N O S 454 275 89 88 2	0	0
41	2h	237	Total C N O S 1978 1187 396 385 10	0	0
41	2i	149	Total C N O S 1301 776 266 252 7	0	0
41	2k	167	Total C N O S 1369 834 266 262 7	0	0
41	2l	264	Total C N O S 2228 1338 445 432 13	0	0
41	2n	42	Total C N O 361 219 72 70	0	0
41	2o	287	Total C N O S 2453 1473 490 478 12	0	0
41	2p	49	Total C N O S 425 257 86 80 2	0	0

- Molecule 42 is a protein called DMIP16.

Mol	Chain	Residues	Atoms	AltConf	Trace
42	2r	315	Total C N O S 2473 1564 439 460 10	0	0

- Molecule 43 is a protein called DMIP17.

Mol	Chain	Residues	Atoms	AltConf	Trace
43	2t	214	Total C N O S 1713 1075 302 324 12	0	0

- Molecule 44 is a protein called DMIP18.

Mol	Chain	Residues	Atoms	AltConf	Trace
44	2v	280	Total C N O S 2264 1438 391 425 10	0	0
44	2w	412	Total C N O S 3291 2082 565 629 15	0	0

- Molecule 45 is a protein called DMIP19.

Mol	Chain	Residues	Atoms					AltConf	Trace
45	2y	287	Total	C	N	O	S	0	0
			2316	1424	424	460	8		
45	2z	187	Total	C	N	O	S	0	0
			1435	890	257	287	1		

- Molecule 46 is a protein called DMIP20.

Mol	Chain	Residues	Atoms					AltConf	Trace
46	3B	418	Total	C	N	O	S	0	0
			3308	2069	596	631	12		

- Molecule 47 is a protein called DMIP21.

Mol	Chain	Residues	Atoms					AltConf	Trace
47	3D	412	Total	C	N	O	S	0	0
			3212	1986	586	628	12		

- Molecule 48 is a protein called DMIP22.

Mol	Chain	Residues	Atoms					AltConf	Trace
48	3I	80	Total	C	N	O	S	0	0
			640	400	114	122	4		
48	3F	155	Total	C	N	O	S	0	0
			1254	777	240	230	7		
48	3G	90	Total	C	N	O	S	0	0
			733	456	139	134	4		
48	3H	103	Total	C	N	O	S	0	0
			832	516	161	151	4		
48	3M	29	Total	C	N	O	S	0	0
			247	155	44	45	3		
48	3L	29	Total	C	N	O	S	0	0
			247	155	44	45	3		

- Molecule 49 is a protein called DMIP23.

Mol	Chain	Residues	Atoms					AltConf	Trace
49	3P	256	Total	C	N	O	S	0	0
			2002	1260	351	380	11		
49	3Q	490	Total	C	N	O	S	0	0
			3825	2406	666	735	18		

- Molecule 50 is a protein called DMIP24.

Mol	Chain	Residues	Atoms					AltConf	Trace
50	3S	25	Total	C	N	O	S	0	0
			182	109	36	33	4		

- Molecule 51 is a protein called DMIP24.

Mol	Chain	Residues	Atoms				AltConf	Trace
51	X1	39	Total	C	N	O	0	0
			304	183	58	63		

- Molecule 52 is a protein called DMIP25.

Mol	Chain	Residues	Atoms					AltConf	Trace
52	3U	140	Total	C	N	O	S	0	0
			1074	681	186	203	4		

- Molecule 53 is a protein called DMIP26.

Mol	Chain	Residues	Atoms					AltConf	Trace
53	3X	49	Total	C	N	O	S	0	0
			386	239	74	70	3		
53	3W	153	Total	C	N	O	S	0	0
			1264	786	231	239	8		

- Molecule 54 is a protein called DMIP27.

Mol	Chain	Residues	Atoms					AltConf	Trace
54	3Z	181	Total	C	N	O	S	0	0
			1405	862	264	271	8		
54	3a	87	Total	C	N	O	S	0	0
			712	442	130	136	4		
54	4Y	16	Total	C	N	O	S	0	0
			122	75	18	28	1		

- Molecule 55 is a protein called ArcMAP2.

Mol	Chain	Residues	Atoms					AltConf	Trace
55	3b	136	Total	C	N	O	S	0	0
			1126	695	204	223	4		

- Molecule 56 is a protein called ArcMAP1.

Mol	Chain	Residues	Atoms					AltConf	Trace
56	3d	148	Total	C	N	O	S	0	0
			1240	765	229	240	6		

- Molecule 57 is a protein called ArcMAP4.

Mol	Chain	Residues	Atoms					AltConf	Trace
57	3f	165	Total	C	N	O	S	0	0
			1408	857	263	280	8		
57	3g	165	Total	C	N	O	S	0	0
			1408	857	263	280	8		
57	3h	165	Total	C	N	O	S	0	0
			1408	857	263	280	8		
57	3i	165	Total	C	N	O	S	0	0
			1408	857	263	280	8		

- Molecule 58 is a protein called ArcMAP3.

Mol	Chain	Residues	Atoms					AltConf	Trace
58	3m	144	Total	C	N	O	S	0	0
			1216	745	236	231	4		

- Molecule 59 is a protein called CFAP96.

Mol	Chain	Residues	Atoms					AltConf	Trace
59	3o	55	Total	C	N	O	S	0	0
			459	293	79	85	2		
59	3p	148	Total	C	N	O	S	0	0
			1159	744	201	212	2		
59	4O	175	Total	C	N	O	S	0	0
			1399	899	245	253	2		
59	4P	69	Total	C	N	O	S	0	0
			529	346	84	98	1		
59	4a	154	Total	C	N	O	S	0	0
			1233	796	213	223	1		
59	4b	69	Total	C	N	O	S	0	0
			529	346	84	98	1		

- Molecule 60 is a protein called CFAP97.

Mol	Chain	Residues	Atoms					AltConf	Trace
60	3r	130	Total	C	N	O	S	0	0
			1098	668	221	205	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
60	3s	130	Total	C	N	O	S	0	0
			1098	668	221	205	4		
60	3t	63	Total	C	N	O	S	0	0
			533	326	105	98	4		

- Molecule 61 is a protein called DMAP1.

Mol	Chain	Residues	Atoms					AltConf	Trace
61	3w	166	Total	C	N	O	S	0	0
			1362	872	235	249	6		
61	3x	126	Total	C	N	O	S	0	0
			987	626	178	182	1		

- Molecule 62 is a protein called DMAP2.

Mol	Chain	Residues	Atoms					AltConf	Trace
62	4A	29	Total	C	N	O	S	0	0
			229	142	43	43	1		
62	4B	201	Total	C	N	O	S	0	0
			1584	1003	275	302	4		

- Molecule 63 is a protein called DMAP7.

Mol	Chain	Residues	Atoms					AltConf	Trace
63	4I	77	Total	C	N	O	S	0	0
			620	385	128	106	1		

- Molecule 64 is a protein called distal DC1.

Mol	Chain	Residues	Atoms					AltConf	Trace
64	5B	168	Total	C	N	O	S	0	0
			1348	828	258	257	5		
64	5C	168	Total	C	N	O	S	0	0
			1348	828	258	257	5		
64	5D	40	Total	C	N	O	S	0	0
			321	196	61	61	3		

- Molecule 65 is a protein called distal DC2.

Mol	Chain	Residues	Atoms					AltConf	Trace
65	5G	185	Total	C	N	O	S	0	0
			1541	942	295	296	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
65	5H	185	Total	C	N	O	S	0	0
			1541	942	295	296	8		
65	5I	47	Total	C	N	O	S	0	0
			401	251	77	72	1		

- Molecule 66 is a protein called distal DC4.

Mol	Chain	Residues	Atoms					AltConf	Trace
66	5K	266	Total	C	N	O	S	0	0
			2155	1372	377	393	13		
66	5L	266	Total	C	N	O	S	0	0
			2155	1372	377	393	13		

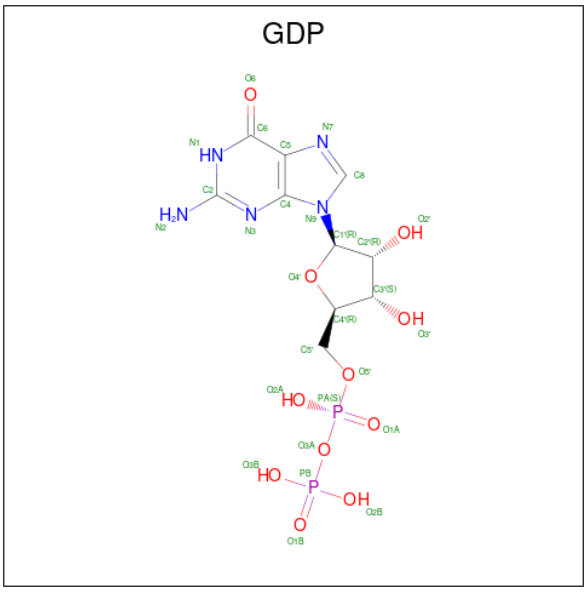
- Molecule 67 is a protein called DC5.

Mol	Chain	Residues	Atoms					AltConf	Trace
67	5O	107	Total	C	N	O	S	0	0
			809	523	130	152	4		
67	5P	107	Total	C	N	O	S	0	0
			809	523	130	152	4		

- Molecule 68 is a protein called DC6.

Mol	Chain	Residues	Atoms					AltConf	Trace
68	5S	92	Total	C	N	O	S	0	0
			749	470	137	133	9		
68	5T	92	Total	C	N	O	S	0	0
			749	470	137	133	9		

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



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

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Mol	Chain	Residues	Atoms					AltConf
69	BN	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	CA	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	CC	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	CE	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	CG	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	CI	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	CK	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	CM	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	DA	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	DC	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	DE	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	DG	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	DI	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	DK	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	DM	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	E	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	EB	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	ED	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	EF	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	EH	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	EJ	1	Total	C	N	O	P	0
			28	10	5	11	2	

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

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Mol	Chain	Residues	Atoms					AltConf
69	HL	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	I	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	IB	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	ID	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	IF	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	IH	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	IJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	IL	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	JA	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	JC	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	JE	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	JG	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	JI	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	JK	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	JM	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	KA	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	KC	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	KE	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	KG	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	KI	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	KK	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
69	KM	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	LA	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	LC	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	LE	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	LG	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	LI	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	LK	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	LM	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	LO	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	M	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	MB	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	MD	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	MF	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	MH	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	MJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	ML	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	MN	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	N	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	NB	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	ND	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	NF	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
69	NH	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	NJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	NL	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	O	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	OB	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	OD	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	OF	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	OH	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	OJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	OL	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	P	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	PB	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	PD	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	PF	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	PH	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	PJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	PL	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	QA	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	QC	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	QE	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	QG	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
69	QI	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	QK	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	RA	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	RC	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	RE	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	RG	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	RI	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	RK	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	S	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	SB	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	SD	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	SF	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	SH	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	SJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	T	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	TB	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	TD	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	TF	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	TH	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	TJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	TL	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
69	U	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	UB	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	UD	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	UF	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	UH	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	UJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	UL	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	V	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	VB	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	VD	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	VF	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	VH	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	VJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	VL	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	W	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	WB	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	WD	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	WF	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	WH	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	WJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
69	WL	1	Total	C	N	O	P	0
			28	10	5	11	2	

- Molecule 70 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	AltConf
70	AA	1	Total Mg 1 1	0
70	AC	1	Total Mg 1 1	0
70	AE	1	Total Mg 1 1	0
70	AG	1	Total Mg 1 1	0
70	AI	1	Total Mg 1 1	0
70	AK	1	Total Mg 1 1	0
70	AM	1	Total Mg 1 1	0
70	BA	1	Total Mg 1 1	0
70	BC	1	Total Mg 1 1	0
70	BE	1	Total Mg 1 1	0
70	BG	1	Total Mg 1 1	0
70	BI	1	Total Mg 1 1	0
70	BK	1	Total Mg 1 1	0
70	BM	1	Total Mg 1 1	0
70	C	1	Total Mg 1 1	0
70	CB	1	Total Mg 1 1	0
70	CD	1	Total Mg 1 1	0
70	CF	1	Total Mg 1 1	0
70	CH	1	Total Mg 1 1	0
70	CJ	1	Total Mg 1 1	0
70	CL	1	Total Mg 1 1	0

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Mol	Chain	Residues	Atoms	AltConf
70	D	1	Total Mg 1 1	0
70	DB	1	Total Mg 1 1	0
70	DD	1	Total Mg 1 1	0
70	DF	1	Total Mg 1 1	0
70	DH	1	Total Mg 1 1	0
70	DJ	1	Total Mg 1 1	0
70	DL	1	Total Mg 1 1	0
70	EA	1	Total Mg 1 1	0
70	EC	1	Total Mg 1 1	0
70	EE	1	Total Mg 1 1	0
70	EG	1	Total Mg 1 1	0
70	EI	1	Total Mg 1 1	0
70	EK	1	Total Mg 1 1	0
70	FA	1	Total Mg 1 1	0
70	FC	1	Total Mg 1 1	0
70	FE	1	Total Mg 1 1	0
70	FG	1	Total Mg 1 1	0
70	FI	1	Total Mg 1 1	0
70	FK	1	Total Mg 1 1	0
70	GA	1	Total Mg 1 1	0
70	GC	1	Total Mg 1 1	0

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Mol	Chain	Residues	Atoms	AltConf
70	GE	1	Total Mg 1 1	0
70	GG	1	Total Mg 1 1	0
70	GI	1	Total Mg 1 1	0
70	GK	1	Total Mg 1 1	0
70	HA	1	Total Mg 1 1	0
70	HC	1	Total Mg 1 1	0
70	HE	1	Total Mg 1 1	0
70	HG	1	Total Mg 1 1	0
70	HI	1	Total Mg 1 1	0
70	HK	1	Total Mg 1 1	0
70	HM	1	Total Mg 1 1	0
70	IA	1	Total Mg 1 1	0
70	IC	1	Total Mg 1 1	0
70	IE	1	Total Mg 1 1	0
70	IG	1	Total Mg 1 1	0
70	II	1	Total Mg 1 1	0
70	IK	1	Total Mg 1 1	0
70	IM	1	Total Mg 1 1	0
70	J	1	Total Mg 1 1	0
70	JB	1	Total Mg 1 1	0
70	JD	1	Total Mg 1 1	0

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Mol	Chain	Residues	Atoms	AltConf
70	JF	1	Total Mg 1 1	0
70	JH	1	Total Mg 1 1	0
70	JJ	1	Total Mg 1 1	0
70	JL	1	Total Mg 1 1	0
70	JN	1	Total Mg 1 1	0
70	K	1	Total Mg 1 1	0
70	KB	1	Total Mg 1 1	0
70	KD	1	Total Mg 1 1	0
70	KF	1	Total Mg 1 1	0
70	KH	1	Total Mg 1 1	0
70	KJ	1	Total Mg 1 1	0
70	KL	1	Total Mg 1 1	0
70	KN	1	Total Mg 1 1	0
70	L	1	Total Mg 1 1	0
70	LB	1	Total Mg 1 1	0
70	LD	1	Total Mg 1 1	0
70	LF	1	Total Mg 1 1	0
70	LH	1	Total Mg 1 1	0
70	LJ	1	Total Mg 1 1	0
70	LL	1	Total Mg 1 1	0
70	LN	1	Total Mg 1 1	0

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Mol	Chain	Residues	Atoms	AltConf
70	MA	1	Total Mg 1 1	0
70	MC	1	Total Mg 1 1	0
70	ME	1	Total Mg 1 1	0
70	MG	1	Total Mg 1 1	0
70	MI	1	Total Mg 1 1	0
70	MK	1	Total Mg 1 1	0
70	MM	1	Total Mg 1 1	0
70	NA	1	Total Mg 1 1	0
70	NC	1	Total Mg 1 1	0
70	NE	1	Total Mg 1 1	0
70	NG	1	Total Mg 1 1	0
70	NI	1	Total Mg 1 1	0
70	NK	1	Total Mg 1 1	0
70	NM	1	Total Mg 1 1	0
70	OA	1	Total Mg 1 1	0
70	OC	1	Total Mg 1 1	0
70	OE	1	Total Mg 1 1	0
70	OG	1	Total Mg 1 1	0
70	OI	1	Total Mg 1 1	0
70	OK	1	Total Mg 1 1	0
70	OM	1	Total Mg 1 1	0

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Mol	Chain	Residues	Atoms	AltConf
70	PA	1	Total Mg 1 1	0
70	PC	1	Total Mg 1 1	0
70	PE	1	Total Mg 1 1	0
70	PG	1	Total Mg 1 1	0
70	PI	1	Total Mg 1 1	0
70	PK	1	Total Mg 1 1	0
70	PM	1	Total Mg 1 1	0
70	Q	1	Total Mg 1 1	0
70	QB	1	Total Mg 1 1	0
70	QD	1	Total Mg 1 1	0
70	QF	1	Total Mg 1 1	0
70	QH	1	Total Mg 1 1	0
70	QJ	1	Total Mg 1 1	0
70	QL	1	Total Mg 1 1	0
70	R	1	Total Mg 1 1	0
70	RB	1	Total Mg 1 1	0
70	RD	1	Total Mg 1 1	0
70	RF	1	Total Mg 1 1	0
70	RH	1	Total Mg 1 1	0
70	RJ	1	Total Mg 1 1	0
70	RL	1	Total Mg 1 1	0

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Mol	Chain	Residues	Atoms	AltConf
70	SA	1	Total Mg 1 1	0
70	SC	1	Total Mg 1 1	0
70	SE	1	Total Mg 1 1	0
70	SG	1	Total Mg 1 1	0
70	SI	1	Total Mg 1 1	0
70	SK	1	Total Mg 1 1	0
70	TA	1	Total Mg 1 1	0
70	TC	1	Total Mg 1 1	0
70	TE	1	Total Mg 1 1	0
70	TG	1	Total Mg 1 1	0
70	TI	1	Total Mg 1 1	0
70	TK	1	Total Mg 1 1	0
70	UA	1	Total Mg 1 1	0
70	UC	1	Total Mg 1 1	0
70	UE	1	Total Mg 1 1	0
70	UG	1	Total Mg 1 1	0
70	UI	1	Total Mg 1 1	0
70	UK	1	Total Mg 1 1	0
70	VA	1	Total Mg 1 1	0
70	VC	1	Total Mg 1 1	0
70	VE	1	Total Mg 1 1	0

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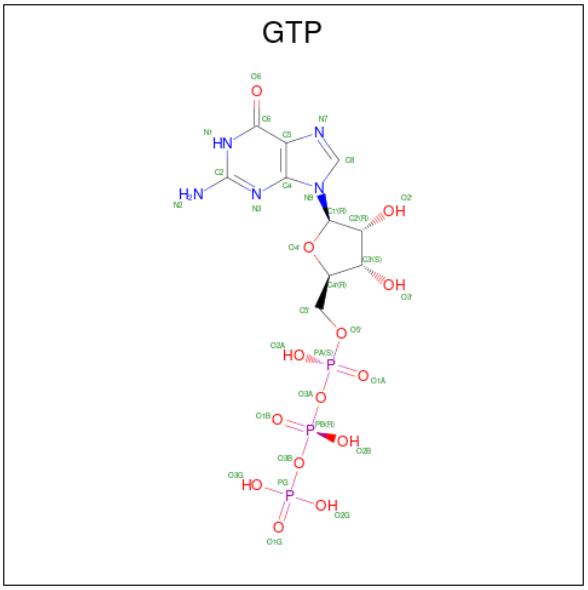
Mol	Chain	Residues	Atoms	AltConf
70	VG	1	Total Mg 1 1	0
70	VI	1	Total Mg 1 1	0
70	VK	1	Total Mg 1 1	0
70	VM	1	Total Mg 1 1	0
70	WA	1	Total Mg 1 1	0
70	WC	1	Total Mg 1 1	0
70	WE	1	Total Mg 1 1	0
70	WG	1	Total Mg 1 1	0
70	WI	1	Total Mg 1 1	0
70	WK	1	Total Mg 1 1	0
70	WM	1	Total Mg 1 1	0

- Molecule 71 is GUANOSINE-5'-TRIPHOSPHATE (CCD ID: GTP) (formula: $C_{10}H_{16}N_5O_{14}P_3$).



Mol	Chain	Residues	Atoms					AltConf
71	AA	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	AC	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	AE	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	AG	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	AI	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	AK	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	AM	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	BA	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	BC	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	BE	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	BG	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	BI	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	BK	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	BM	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	C	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	CB	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	CD	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	CF	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	CH	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	CJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	CL	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	D	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
71	DB	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	DD	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	DF	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	DH	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	DJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	DL	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	EA	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	EC	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	EE	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	EG	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	EI	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	EK	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	FA	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	FC	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	FE	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	FG	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	FI	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	FK	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	GA	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	GC	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	GE	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
71	GG	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	GI	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	GK	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	HA	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	HC	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	HE	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	HG	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	HI	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	HK	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	HM	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	IA	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	IC	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	IE	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	IG	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	II	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	IK	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	IM	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	J	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	JB	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	JD	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	JF	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
71	JH	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	JJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	JL	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	JN	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	K	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	KB	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	KD	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	KF	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	KH	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	KJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	KL	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	KN	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	L	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	LB	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	LD	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	LF	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	LH	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	LJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	LL	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	LN	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	MA	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
71	MC	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	ME	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	MG	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	MI	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	MK	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	MM	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	NA	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	NC	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	NE	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	NG	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	NI	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	NK	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	NM	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	OA	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	OC	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	OE	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	OG	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	OI	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	OK	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	OM	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	PA	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
71	PC	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	PE	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	PG	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	PI	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	PK	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	PM	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	Q	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	QB	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	QD	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	QF	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	QH	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	QJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	QL	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	R	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	RB	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	RD	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	RF	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	RH	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	RJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	RL	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	SA	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
71	SC	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	SE	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	SG	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	SI	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	SK	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	TA	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	TC	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	TE	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	TG	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	TI	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	TK	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	UA	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	UC	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	UE	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	UG	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	UI	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	UK	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	VA	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	VC	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	VE	1	Total	C	N	O	P	0
			32	10	5	14	3	
71	VG	1	Total	C	N	O	P	0
			32	10	5	14	3	

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

- Molecule 72 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		AltConf
72	0A	1	Total	Zn	0
			1	1	
72	0	1	Total	Zn	0
			1	1	
72	0z	1	Total	Zn	0
			1	1	
72	1V	2	Total	Zn	0
			2	2	
72	1Y	2	Total	Zn	0
			2	2	
72	1b	2	Total	Zn	0
			2	2	
72	1c	2	Total	Zn	0
			2	2	
72	1e	2	Total	Zn	0
			2	2	
72	1h	2	Total	Zn	0
			2	2	

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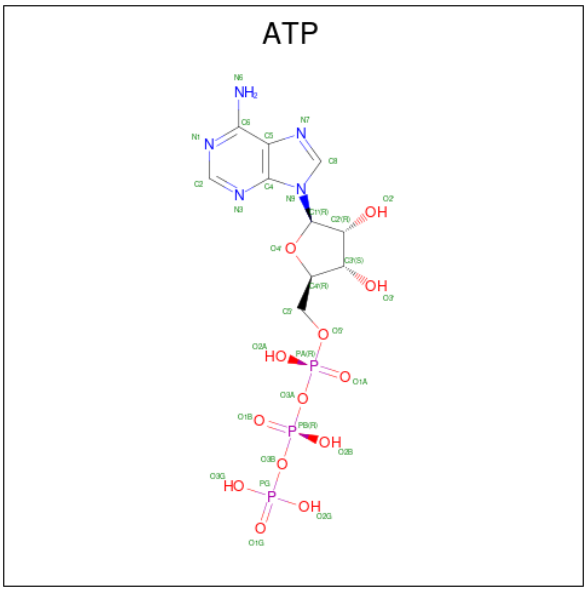
Mol	Chain	Residues	Atoms	AltConf
72	1q	3	Total Zn 3 3	0
72	1s	1	Total Zn 1 1	0
72	1t	1	Total Zn 1 1	0
72	1w	2	Total Zn 2 2	0
72	1x	2	Total Zn 2 2	0
72	3S	1	Total Zn 1 1	0
72	4W	2	Total Zn 2 2	0
72	5S	1	Total Zn 1 1	0
72	5T	1	Total Zn 1 1	0

- Molecule 73 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms	AltConf
73	1S	1	Total Ca 1 1	0
73	2v	1	Total Ca 1 1	0
73	2w	1	Total Ca 1 1	0

- Molecule 74 is ADENOSINE-5'-TRIPHOSPHATE (CCD ID: ATP) (formula: $C_{10}H_{16}N_5O_{13}P_3$).



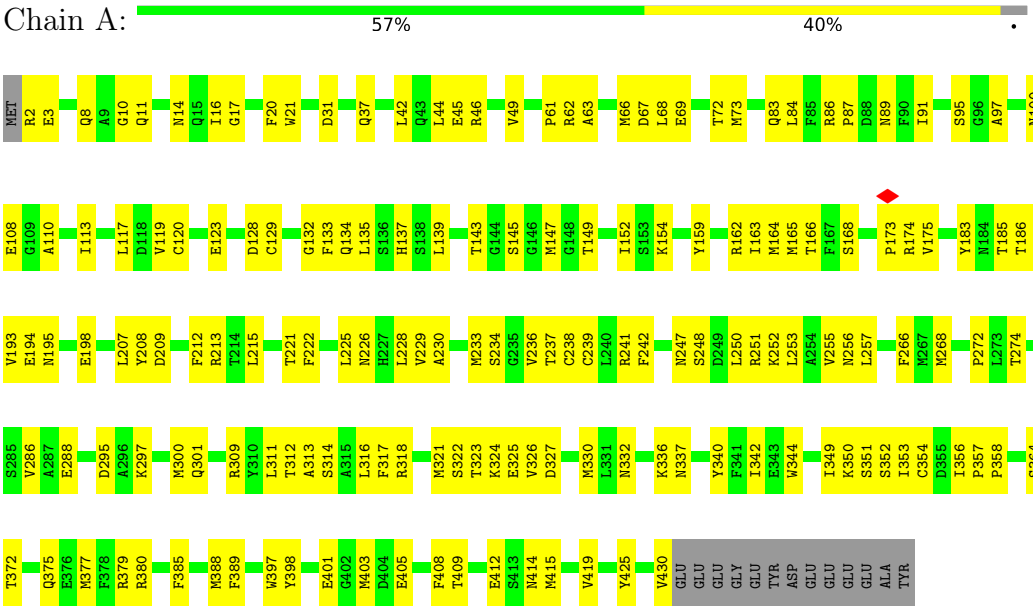
Mol	Chain	Residues	Atoms					AltConf
74	2v	1	Total	C	N	O	P	0
			31	10	5	13	3	
74	2w	1	Total	C	N	O	P	0
			31	10	5	13	3	

3 Residue-property plots (i)

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

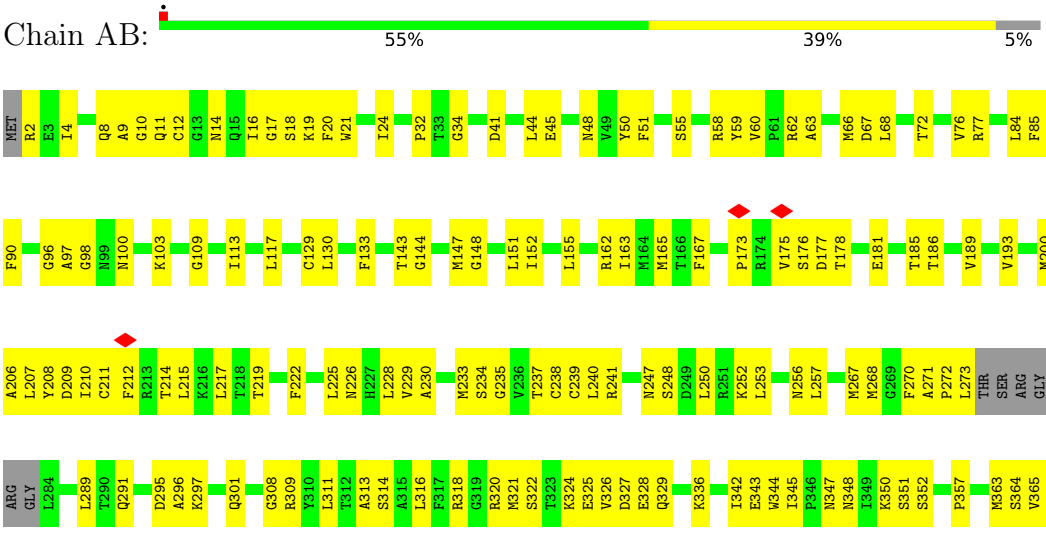
• Molecule 1: Tubulin beta chain

Chain A:



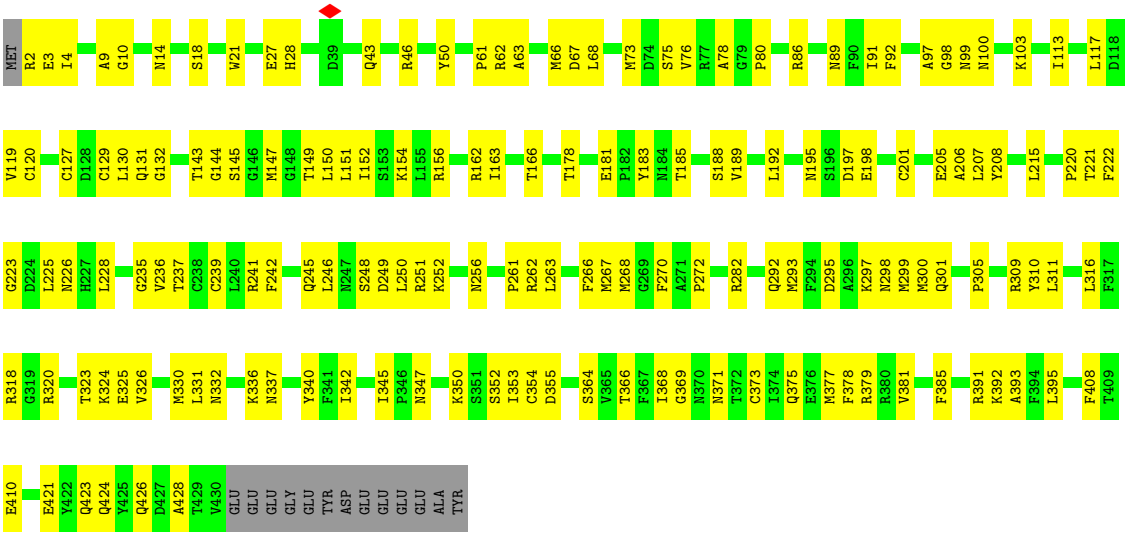
• Molecule 1: Tubulin beta chain

Chain AB:



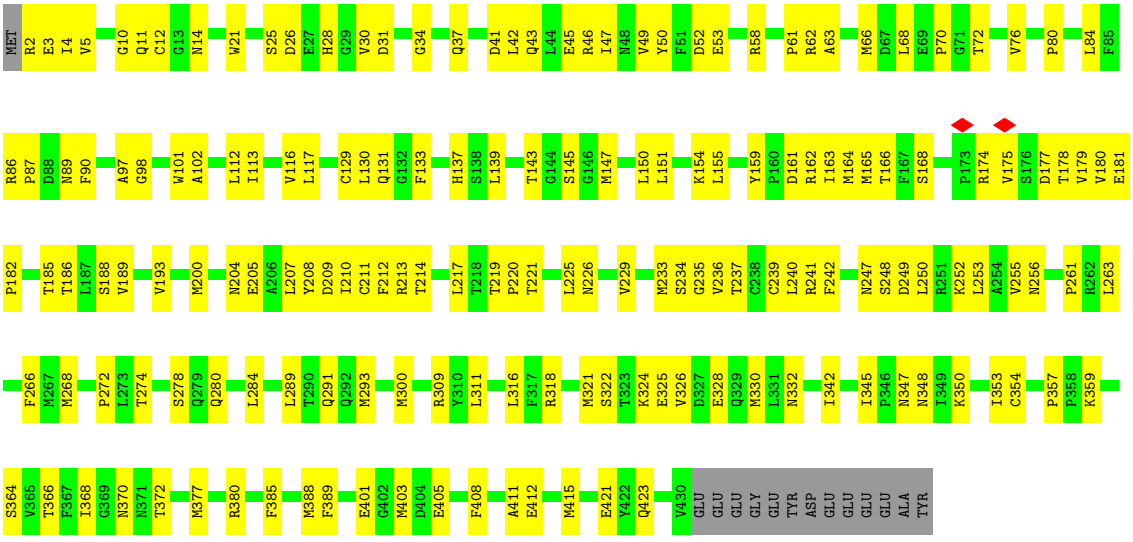
• Molecule 1: Tubulin beta chain

Chain AD:



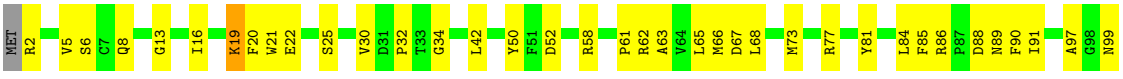
• Molecule 1: Tubulin beta chain

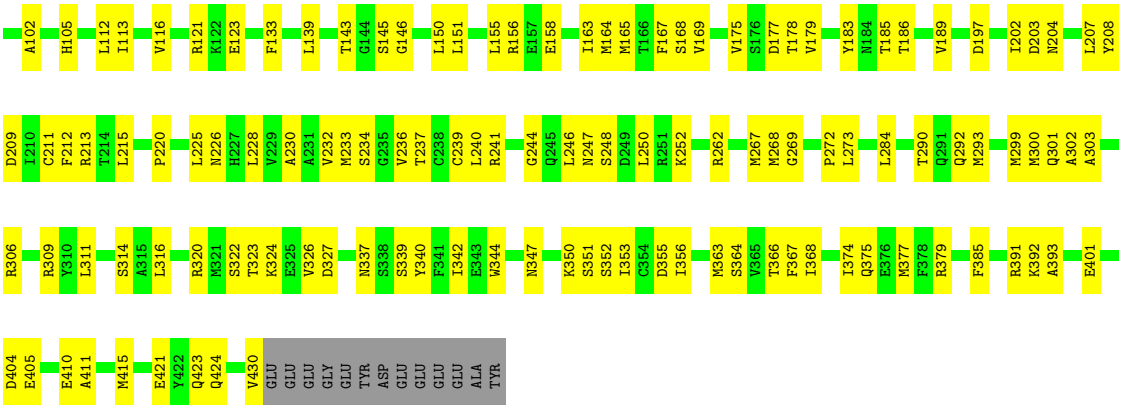
Chain AF:



• Molecule 1: Tubulin beta chain

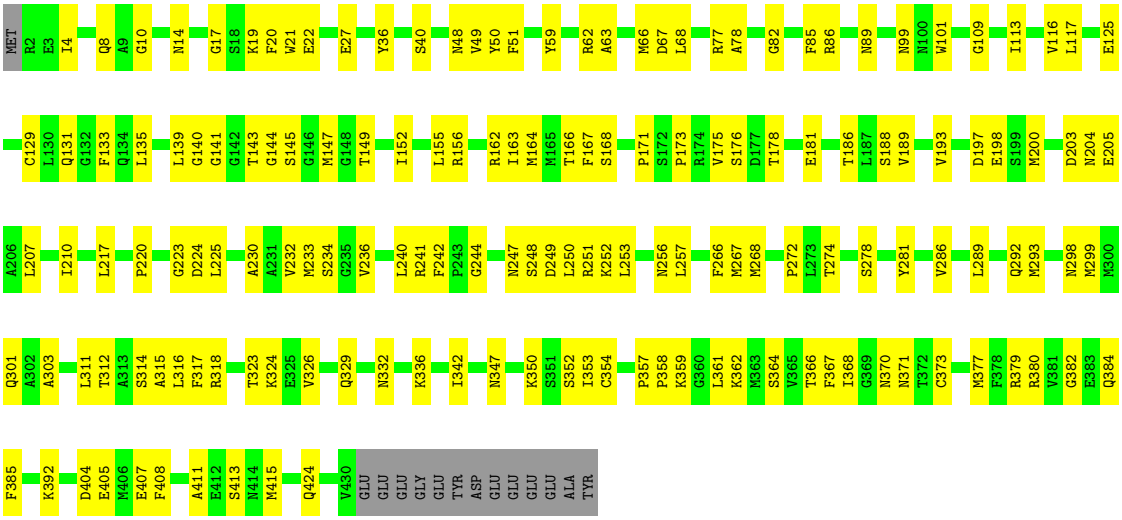
Chain AH:





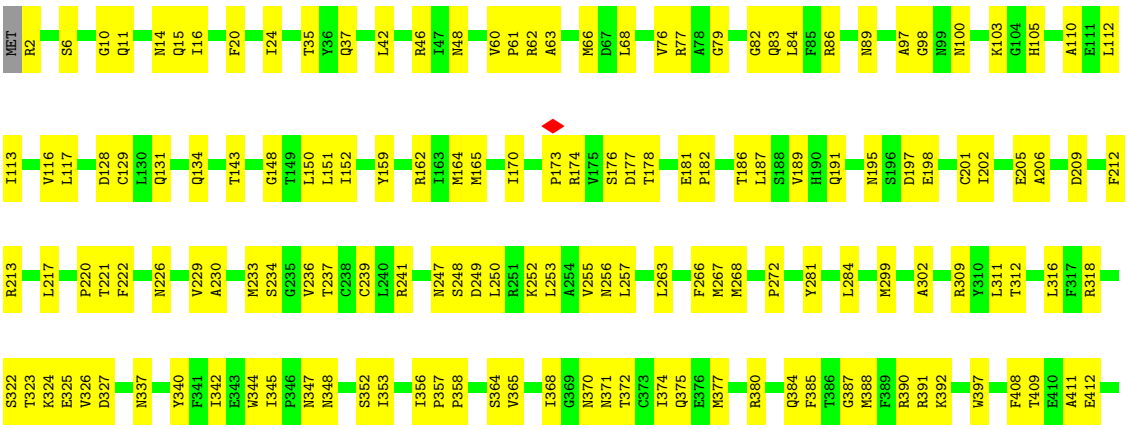
• Molecule 1: Tubulin beta chain

Chain AJ:



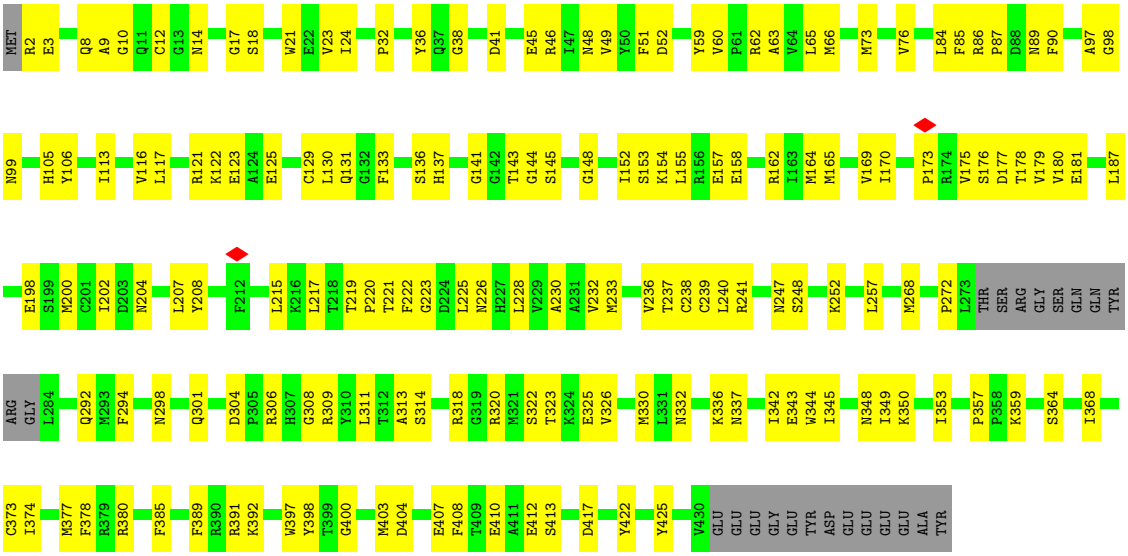
• Molecule 1: Tubulin beta chain

Chain AL:



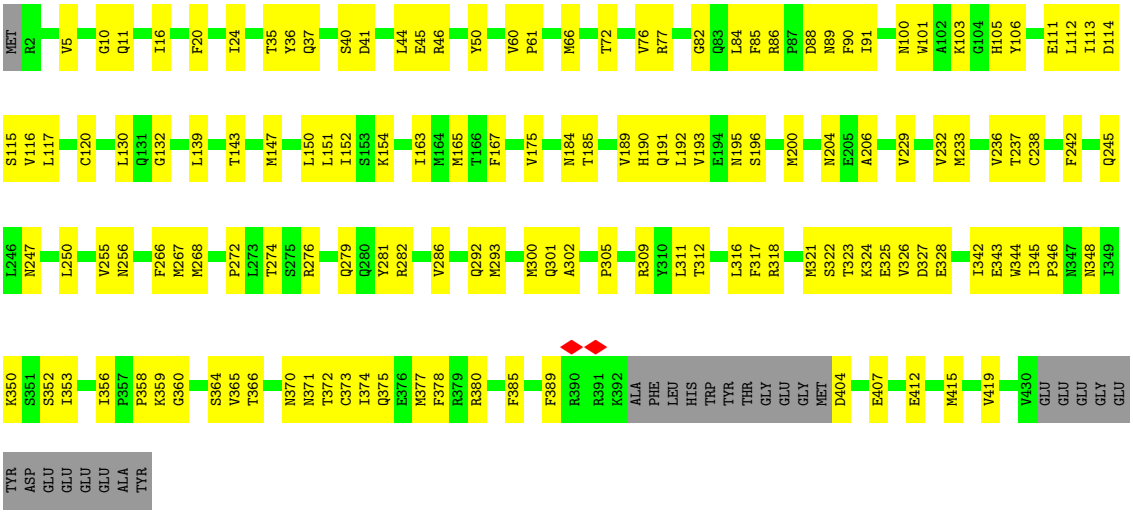
• Molecule 1: Tubulin beta chain

Chain AN:



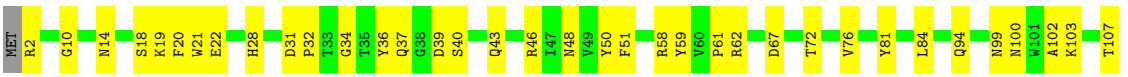
• Molecule 1: Tubulin beta chain

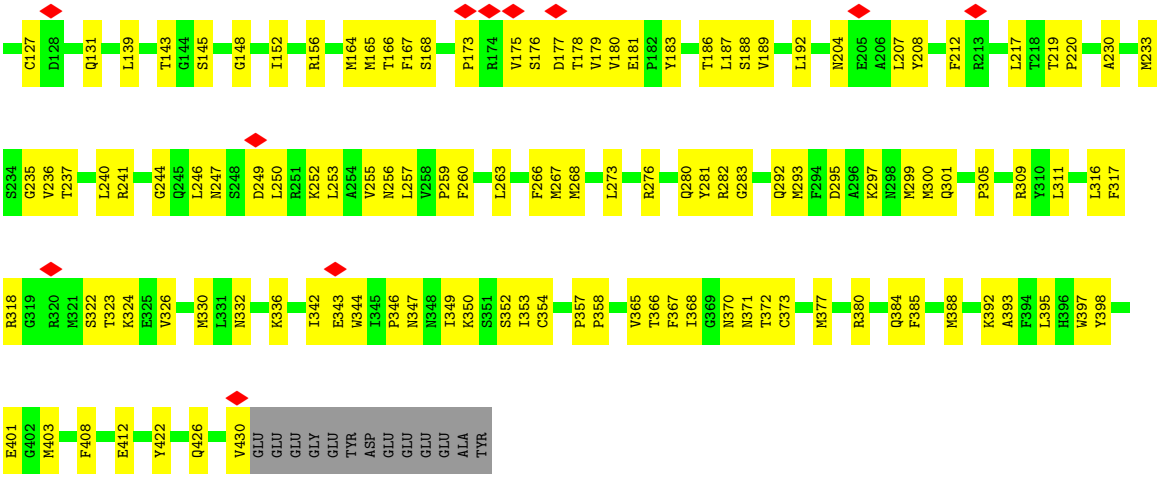
Chain B:



• Molecule 1: Tubulin beta chain

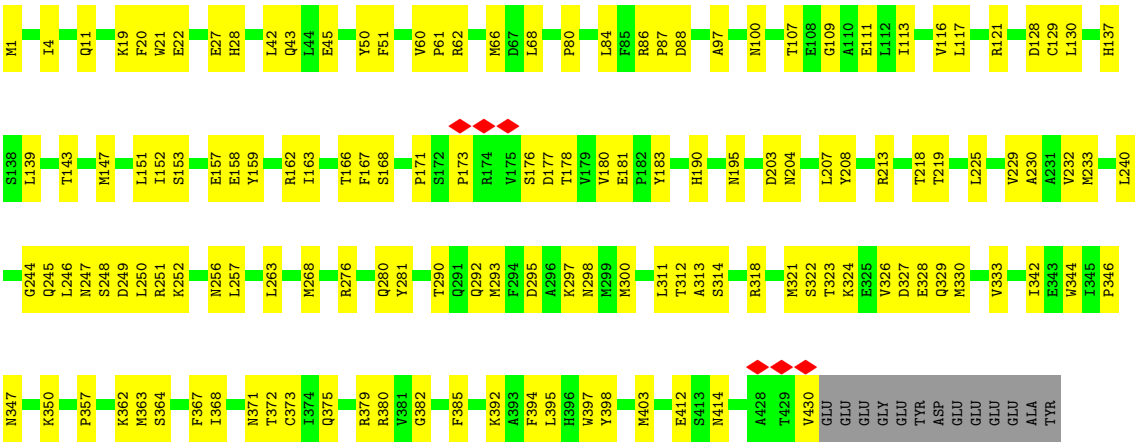
Chain BB:





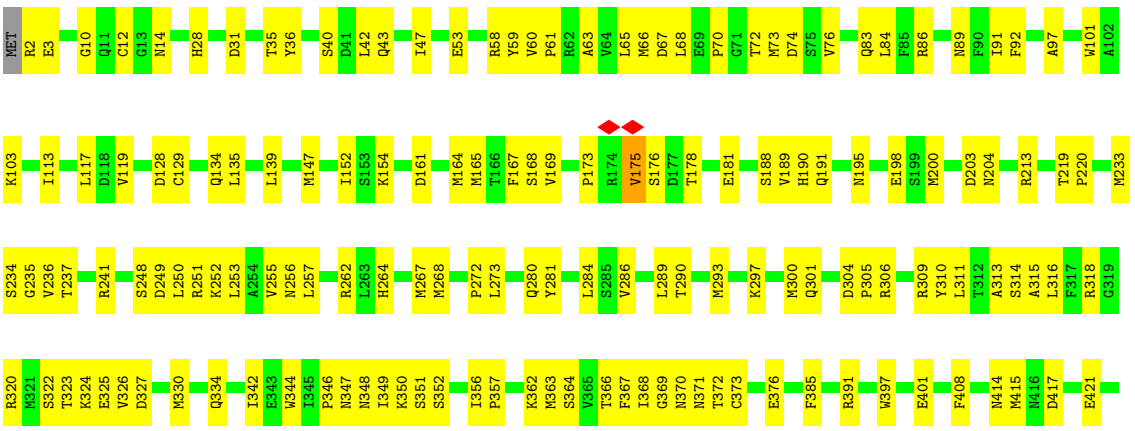
• Molecule 1: Tubulin beta chain

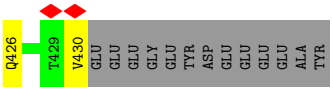
Chain BD:



• Molecule 1: Tubulin beta chain

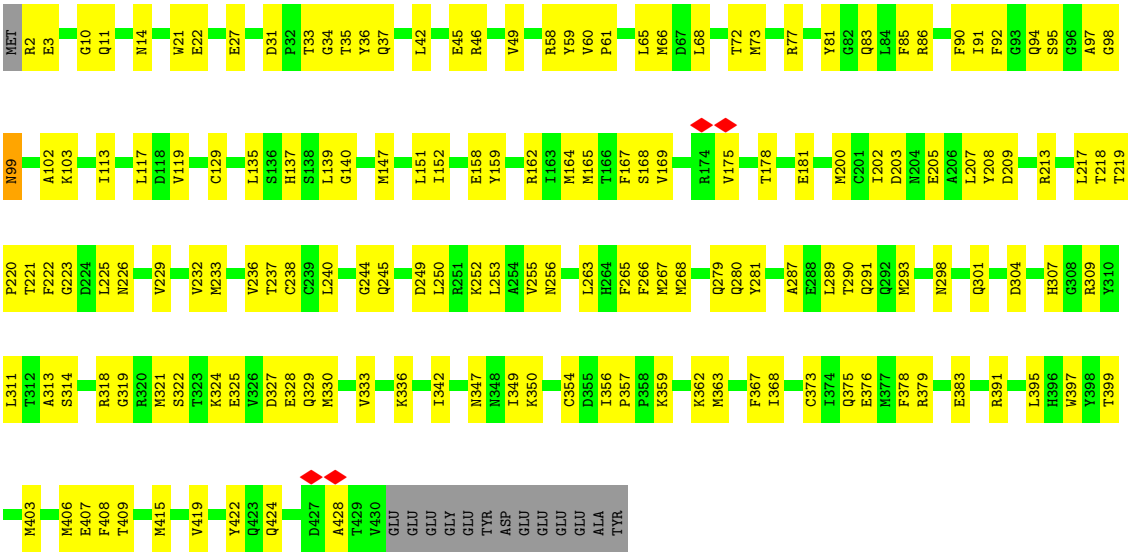
Chain BF:





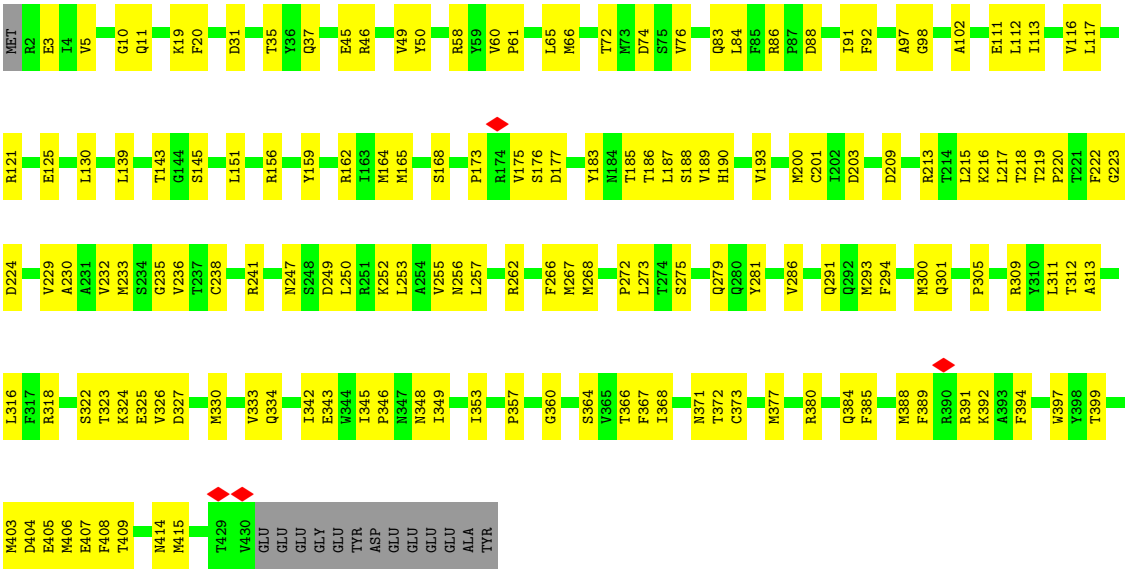
• Molecule 1: Tubulin beta chain

Chain BH:



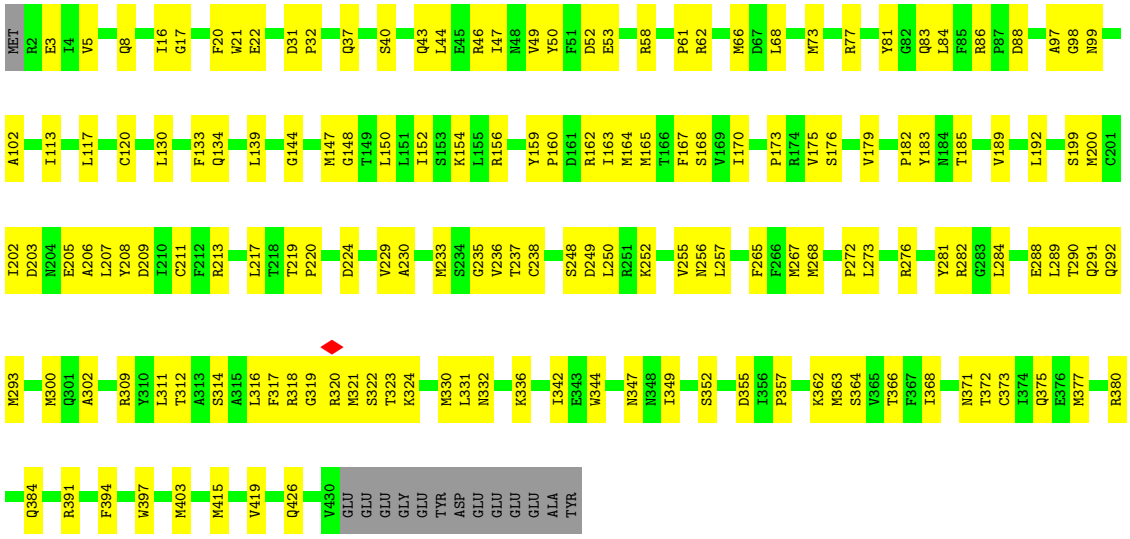
• Molecule 1: Tubulin beta chain

Chain BJ:



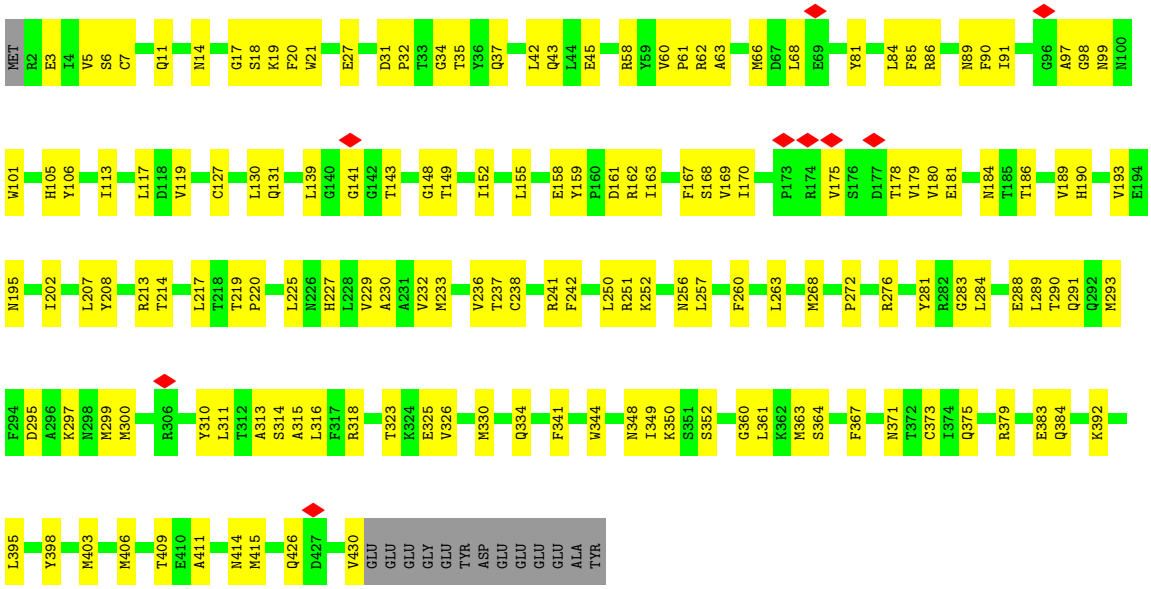
• Molecule 1: Tubulin beta chain

Chain BL:



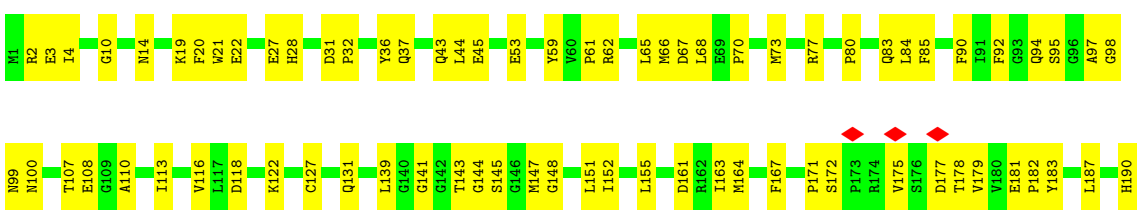
• Molecule 1: Tubulin beta chain

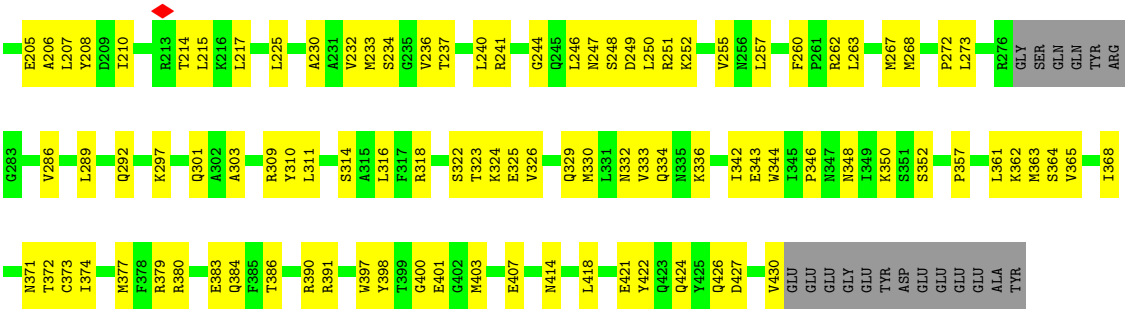
Chain BN:



• Molecule 1: Tubulin beta chain

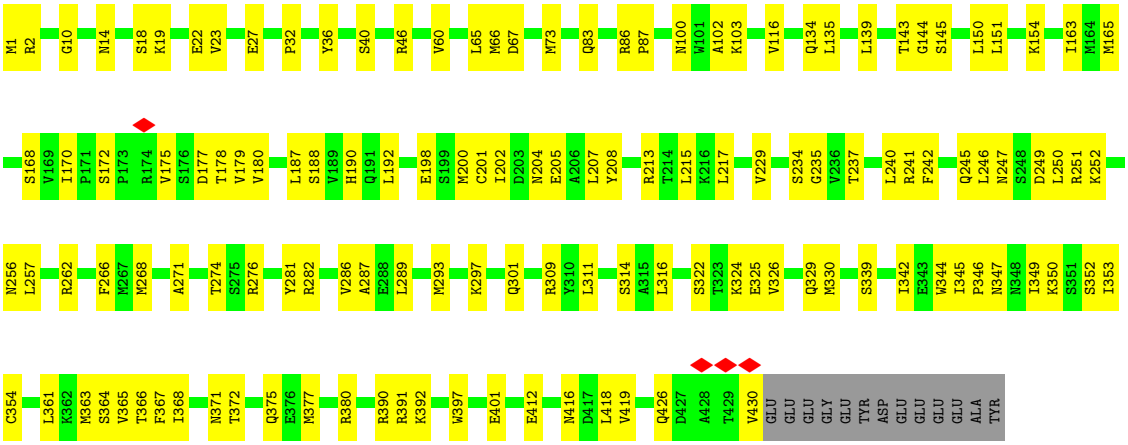
Chain CA:





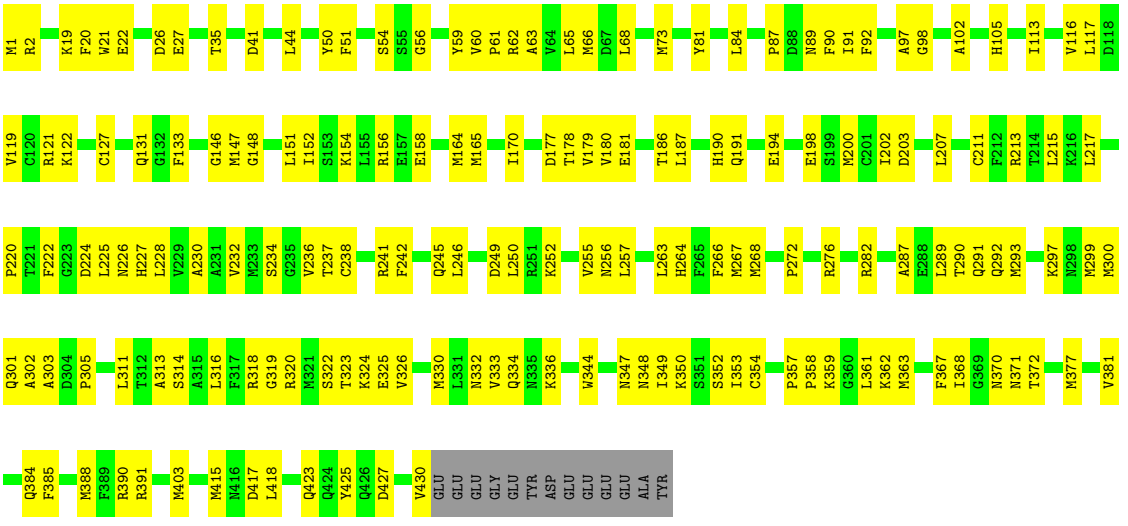
• Molecule 1: Tubulin beta chain

Chain CC:



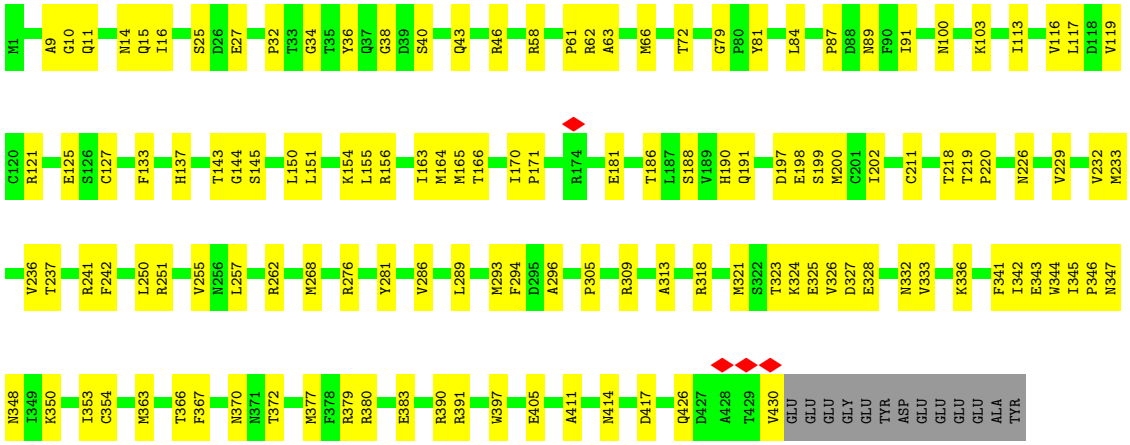
• Molecule 1: Tubulin beta chain

Chain CE:



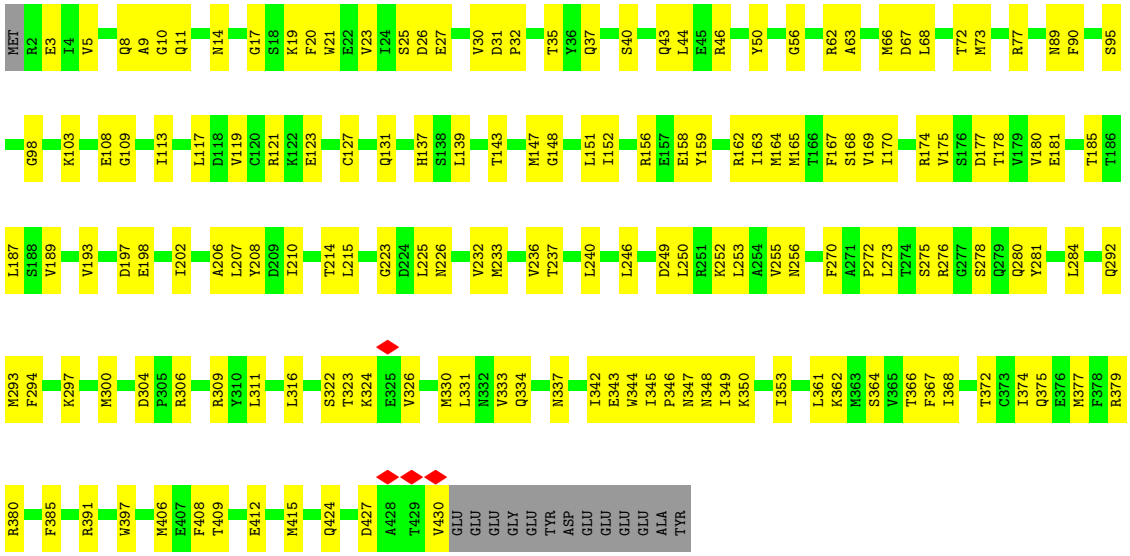
• Molecule 1: Tubulin beta chain

Chain CG:



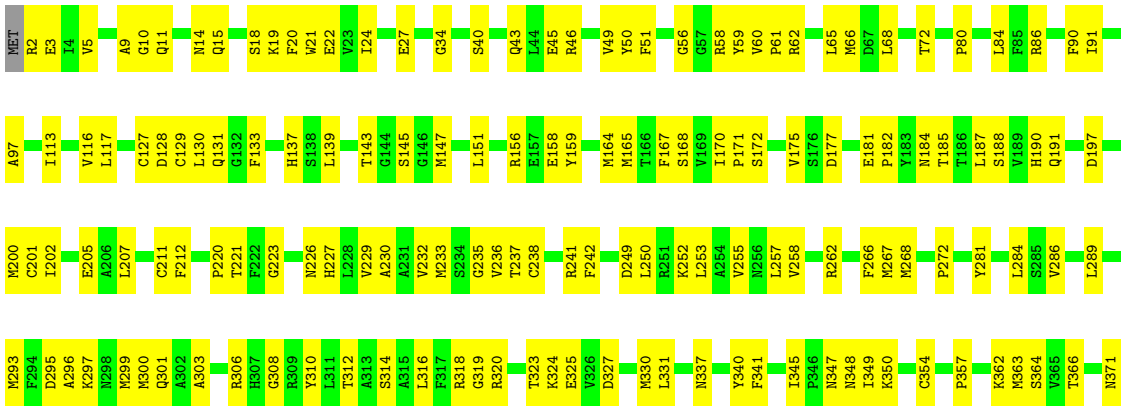
• Molecule 1: Tubulin beta chain

Chain CI:



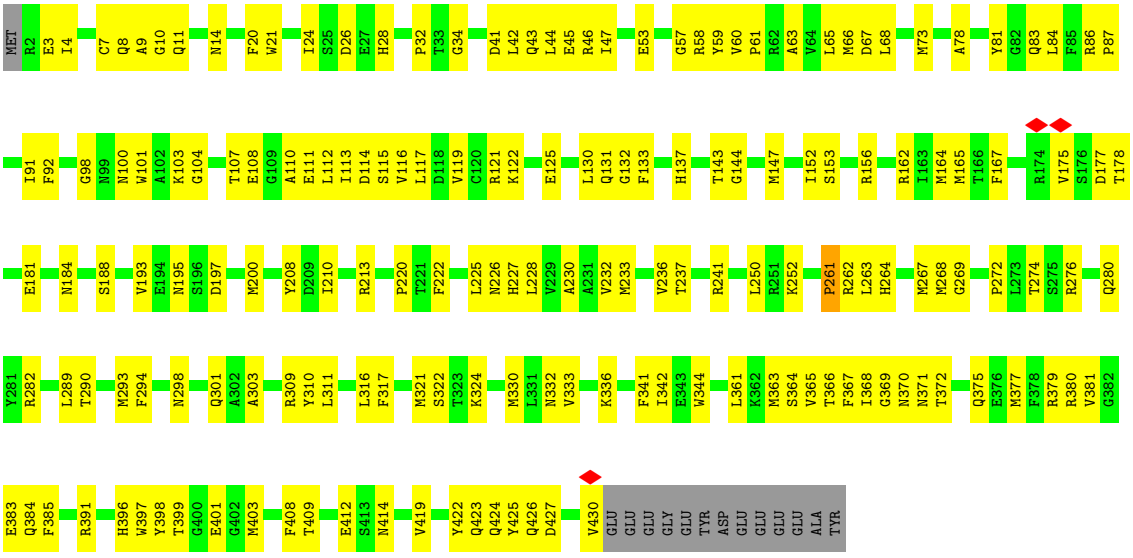
• Molecule 1: Tubulin beta chain

Chain CK:



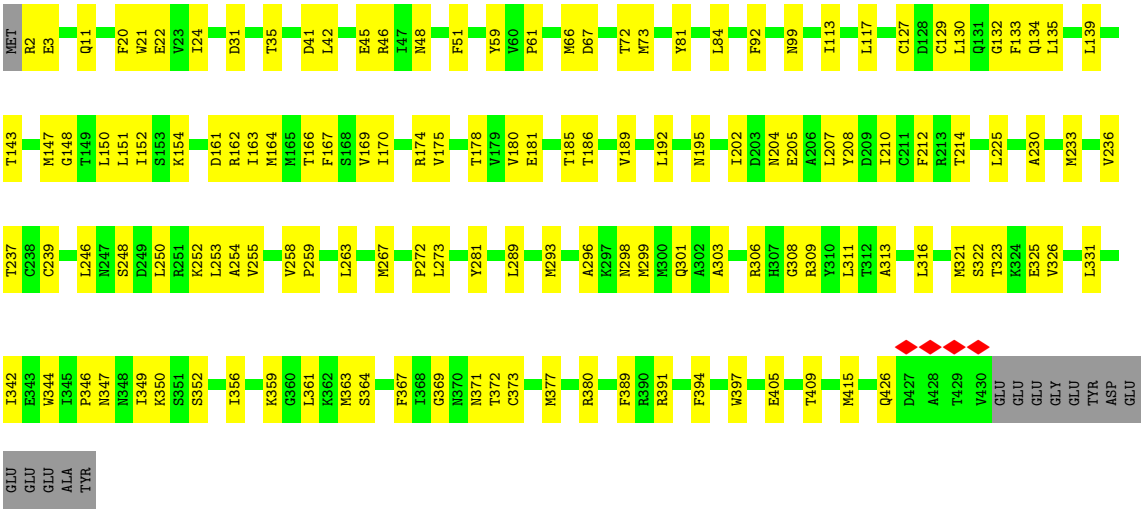
• Molecule 1: Tubulin beta chain

Chain CM:



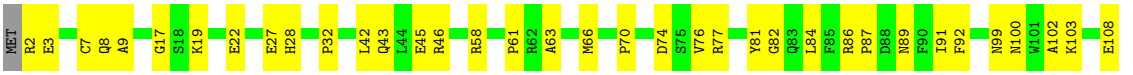
• Molecule 1: Tubulin beta chain

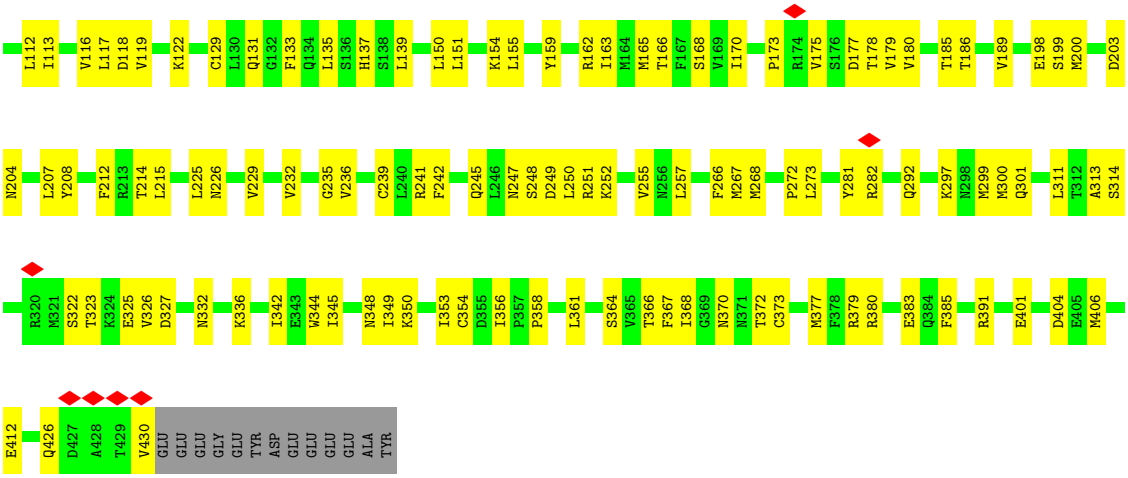
Chain DA:



• Molecule 1: Tubulin beta chain

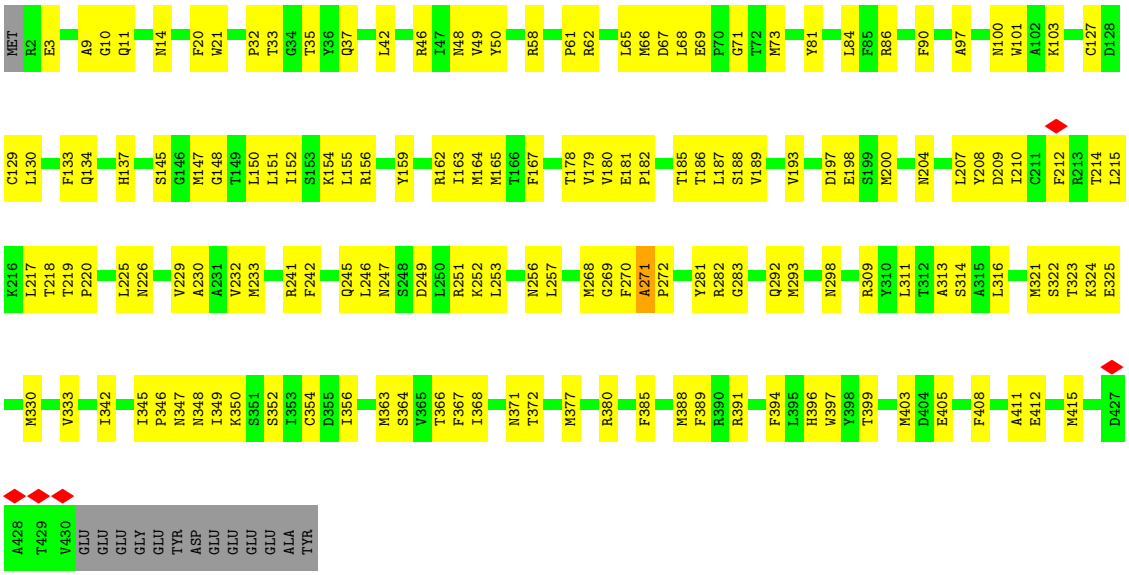
Chain DC:





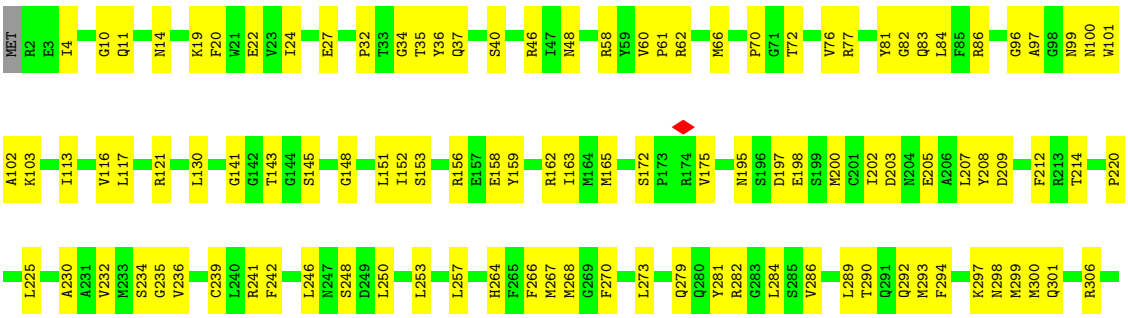
• Molecule 1: Tubulin beta chain

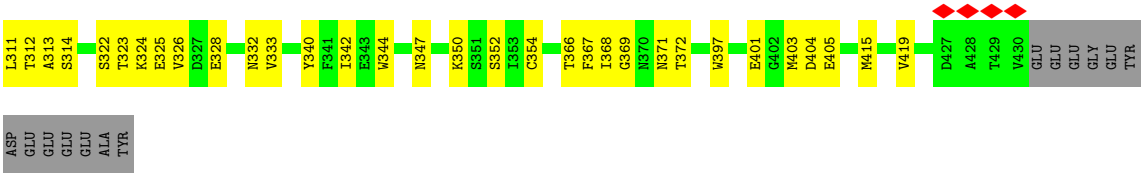
Chain DE:



• Molecule 1: Tubulin beta chain

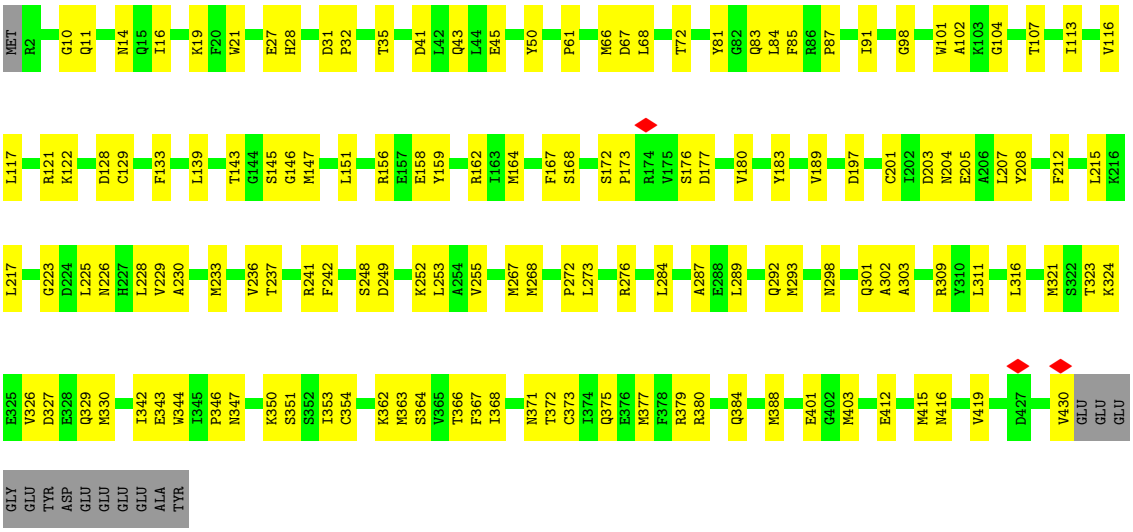
Chain DG:





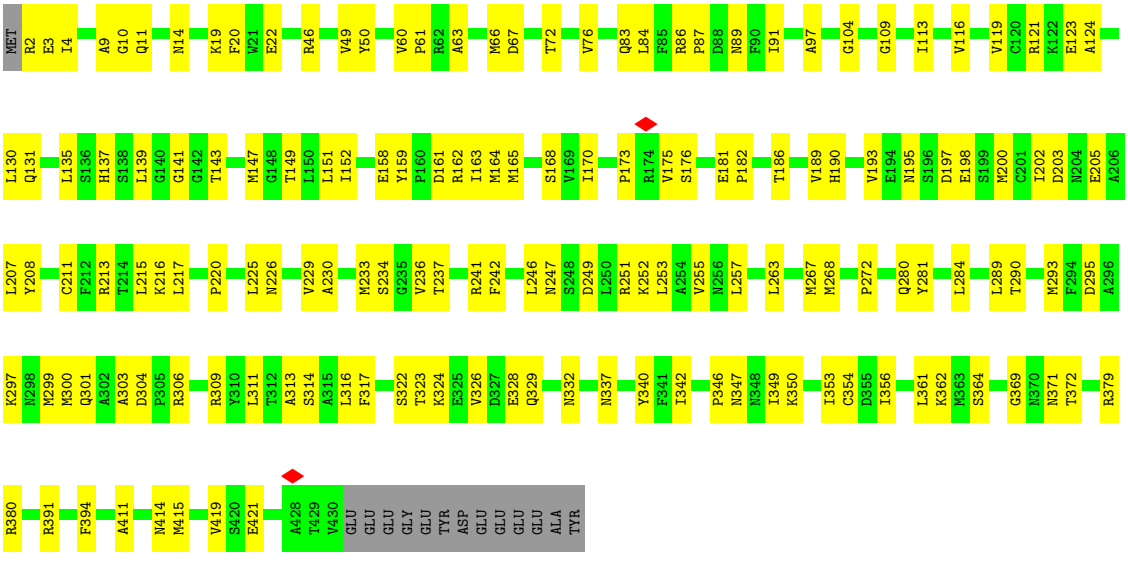
• Molecule 1: Tubulin beta chain

Chain DI:



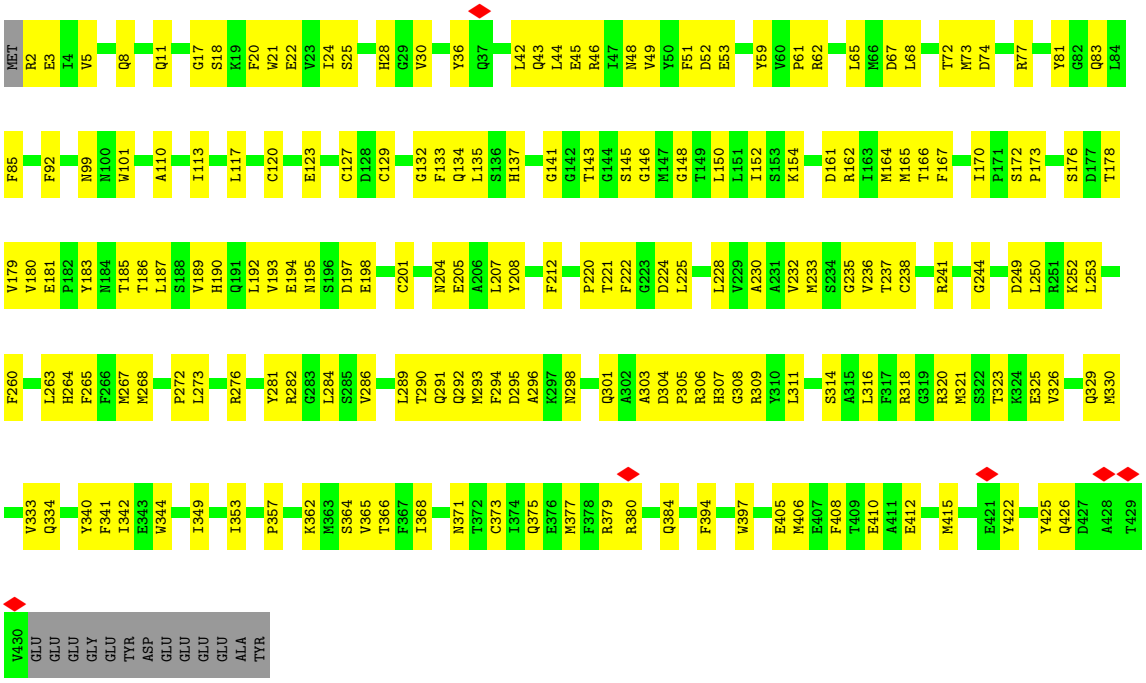
• Molecule 1: Tubulin beta chain

Chain DK:



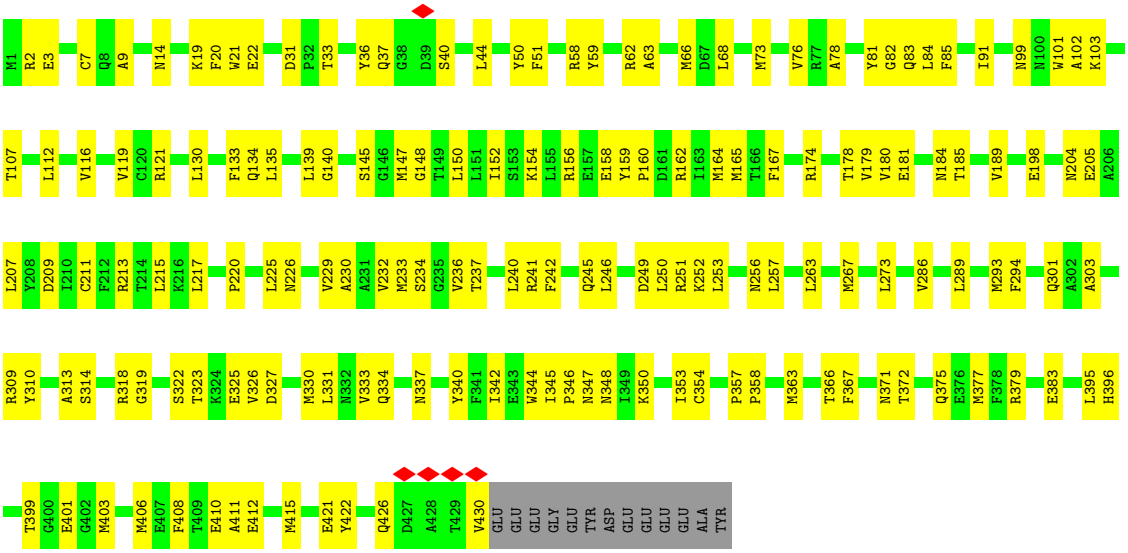
• Molecule 1: Tubulin beta chain

Chain DM:



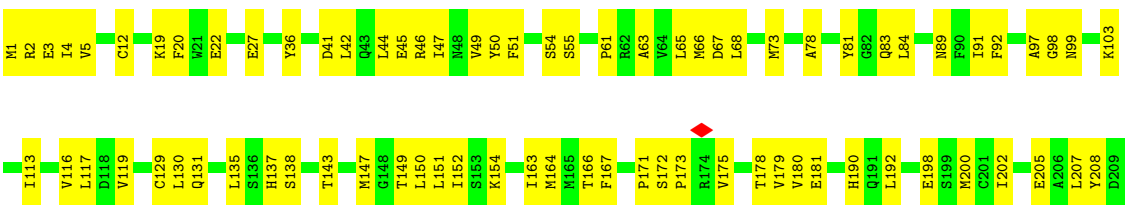
• Molecule 1: Tubulin beta chain

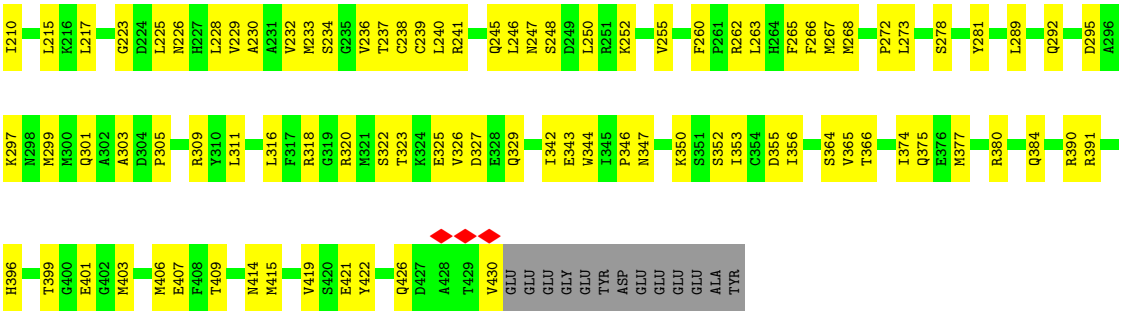
Chain E:



• Molecule 1: Tubulin beta chain

Chain EB:



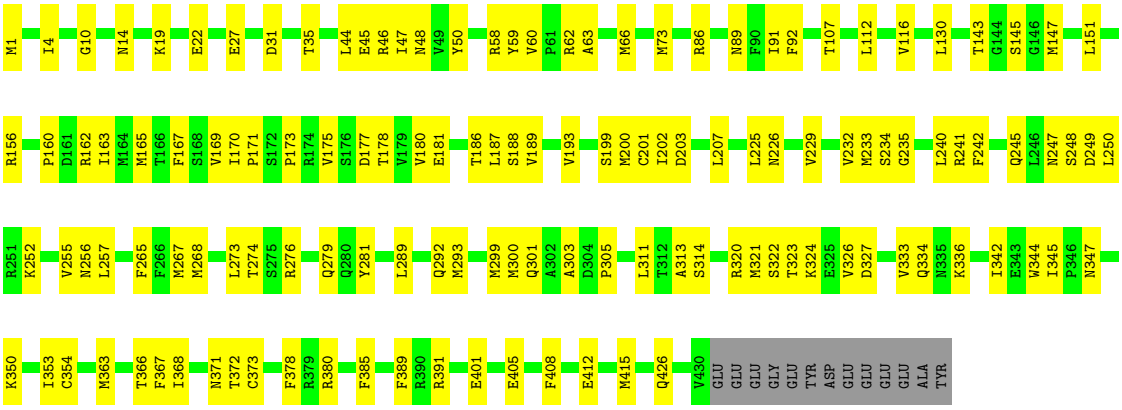


• Molecule 1: Tubulin beta chain

Chain ED:

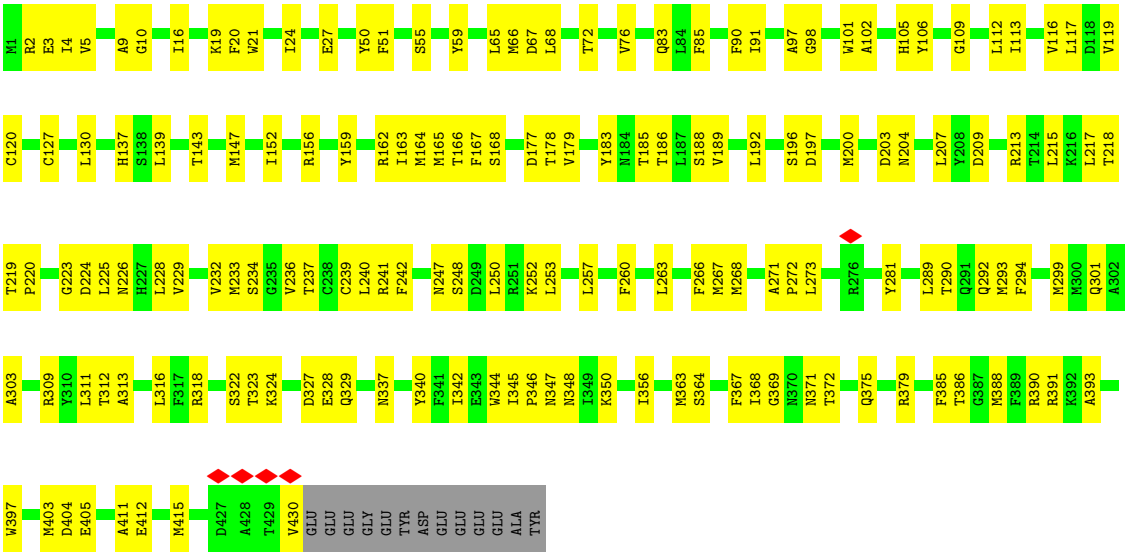
• Molecule 1: Tubulin beta chain

Chain EF:



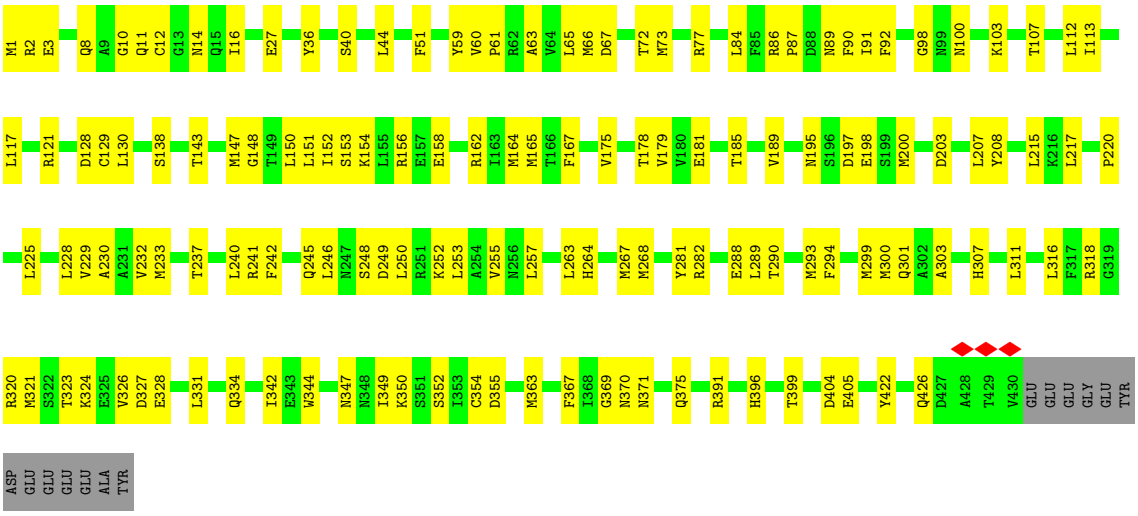
• Molecule 1: Tubulin beta chain

Chain EH:



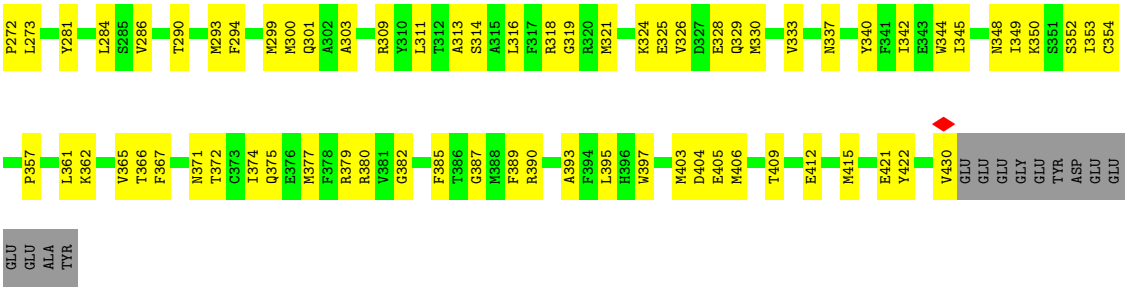
• Molecule 1: Tubulin beta chain

Chain EJ:



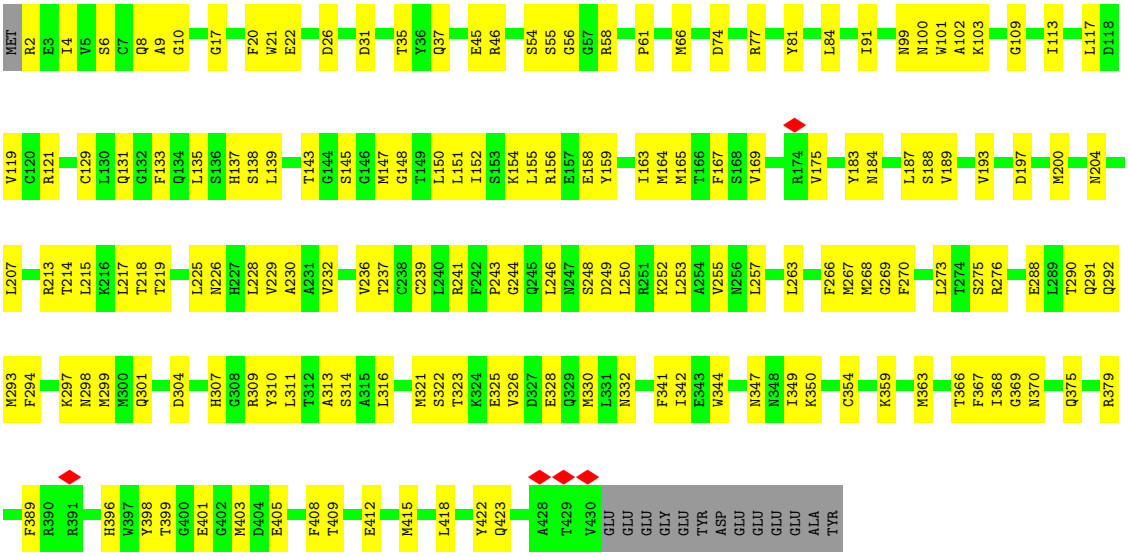
• Molecule 1: Tubulin beta chain

Chain EL:



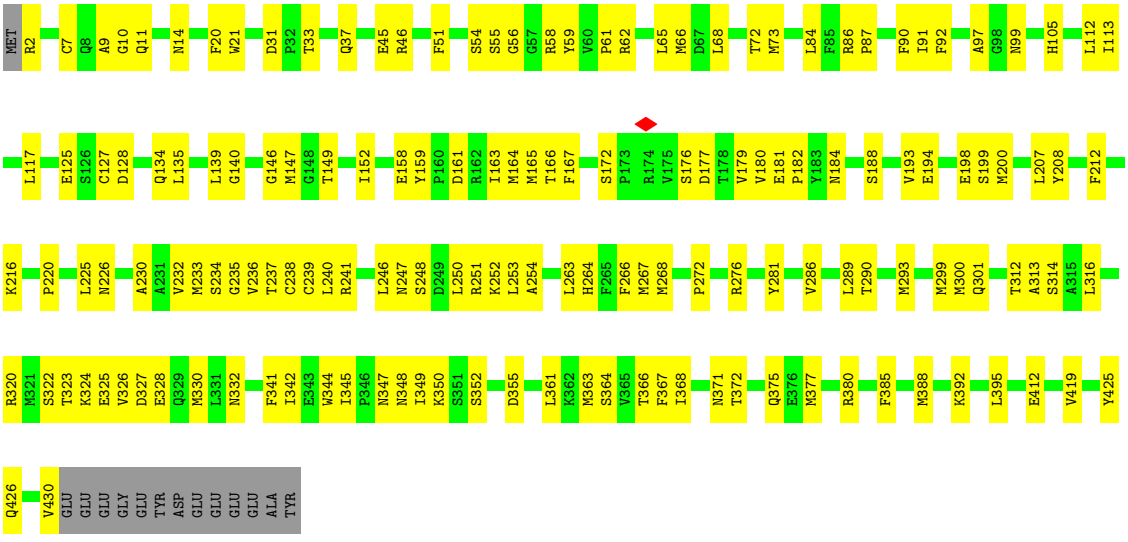
• Molecule 1: Tubulin beta chain

Chain F:



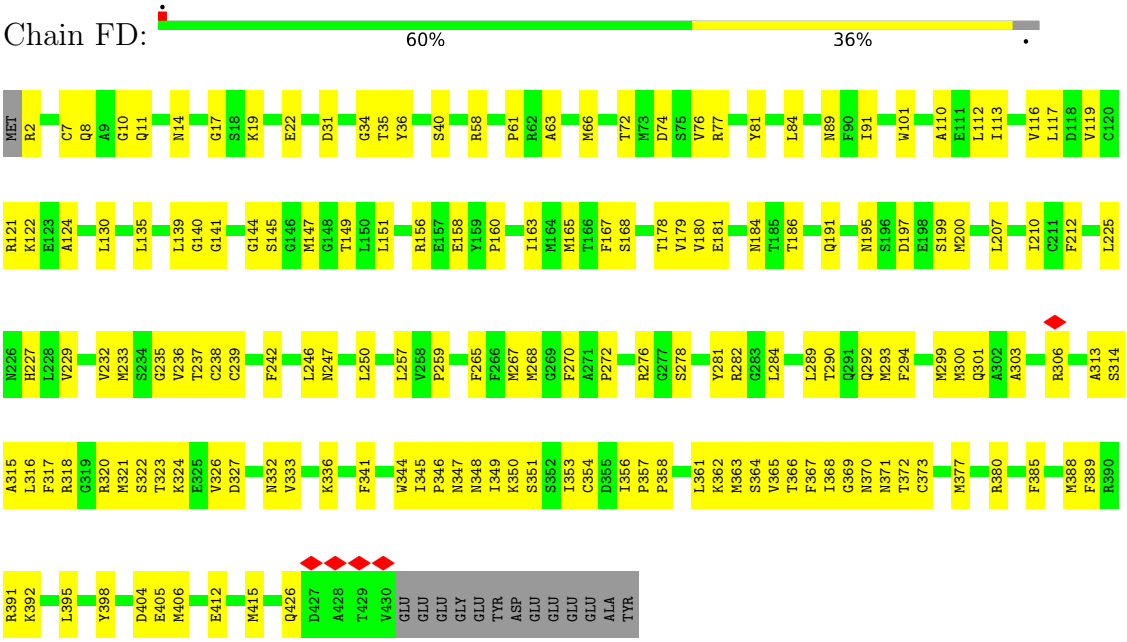
• Molecule 1: Tubulin beta chain

Chain FB:



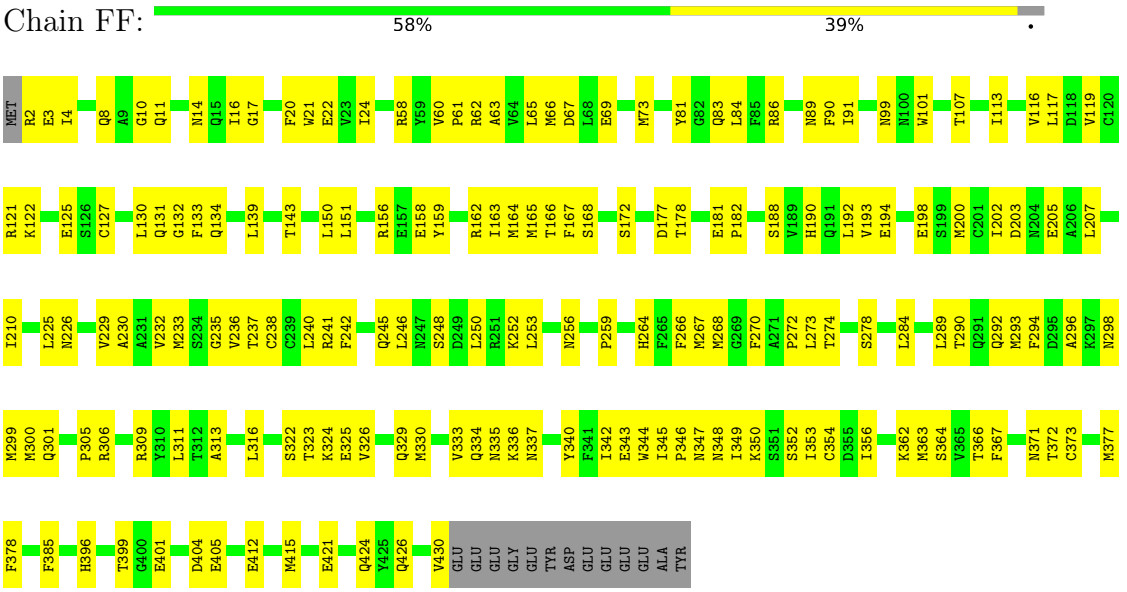
• Molecule 1: Tubulin beta chain

Chain FD:



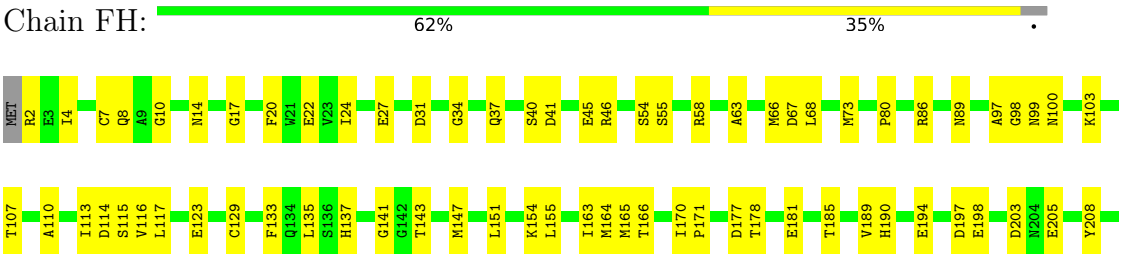
• Molecule 1: Tubulin beta chain

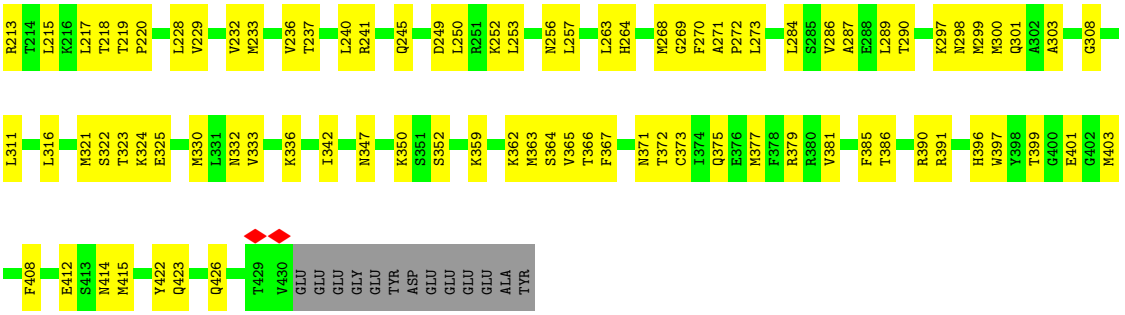
Chain FF:



• Molecule 1: Tubulin beta chain

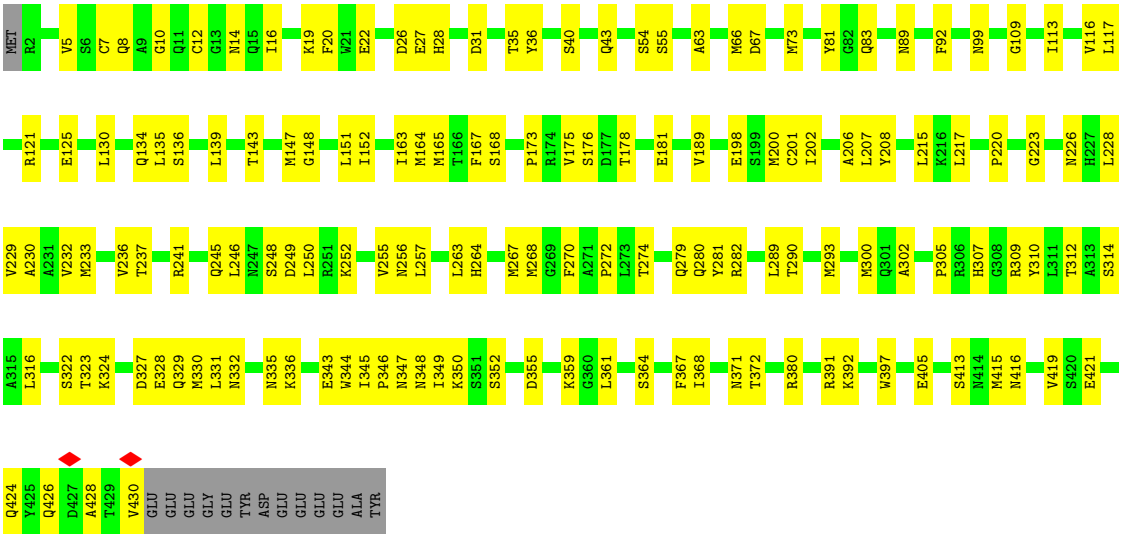
Chain FH:





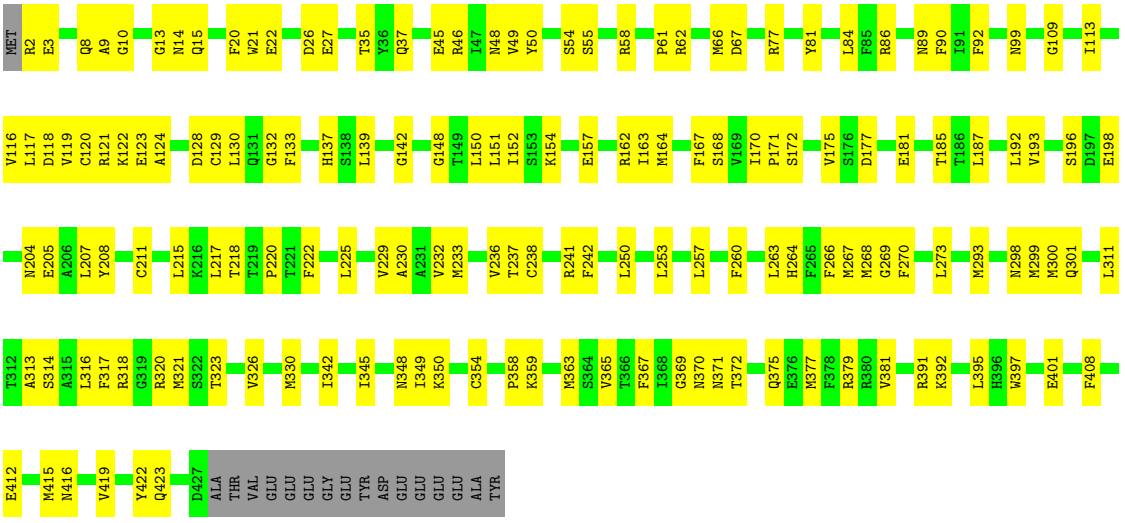
• Molecule 1: Tubulin beta chain

Chain FJ:



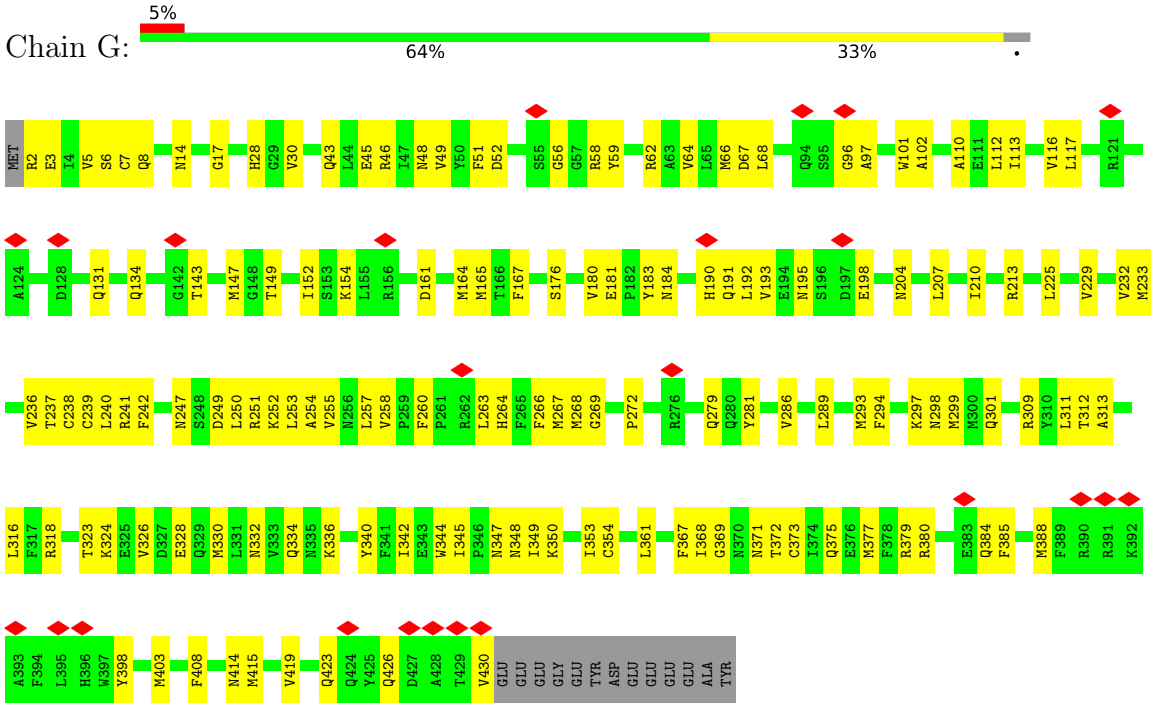
• Molecule 1: Tubulin beta chain

Chain FL:



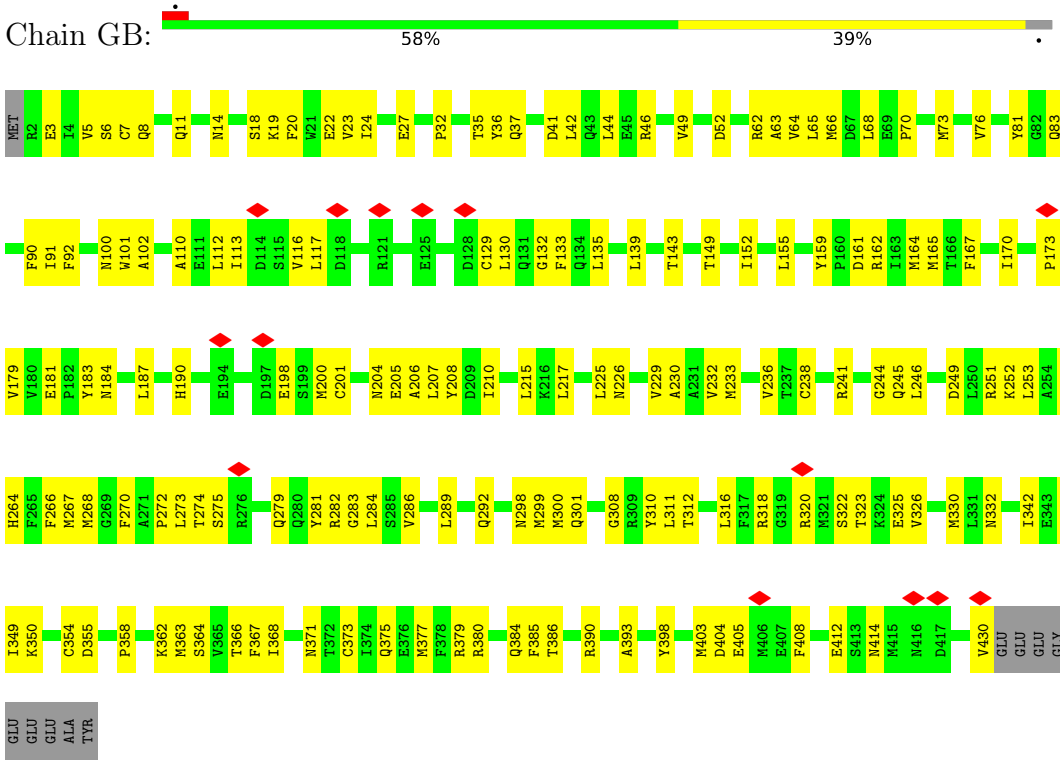
• Molecule 1: Tubulin beta chain

Chain G:



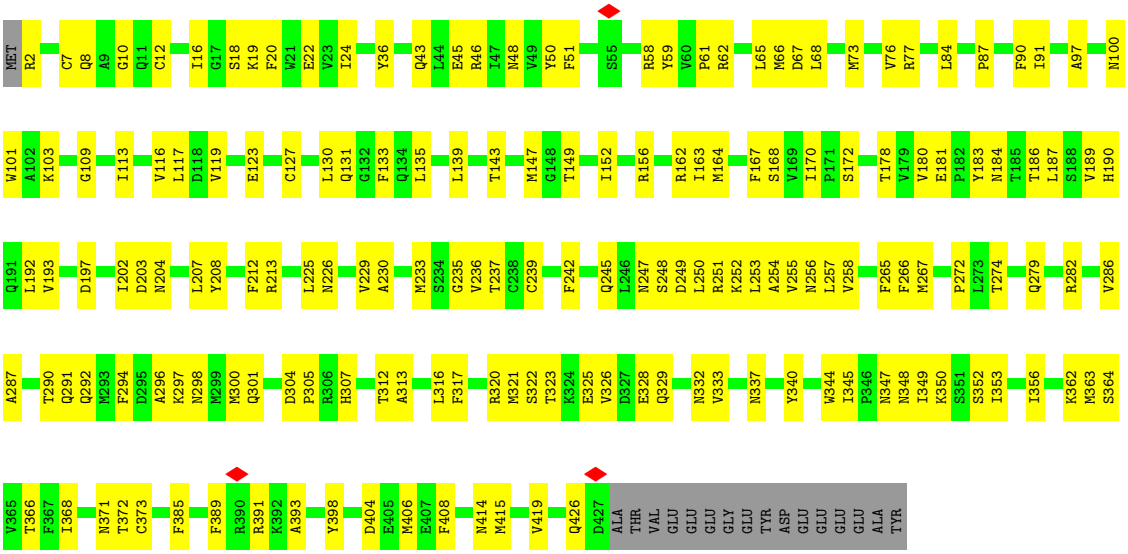
• Molecule 1: Tubulin beta chain

Chain GB:



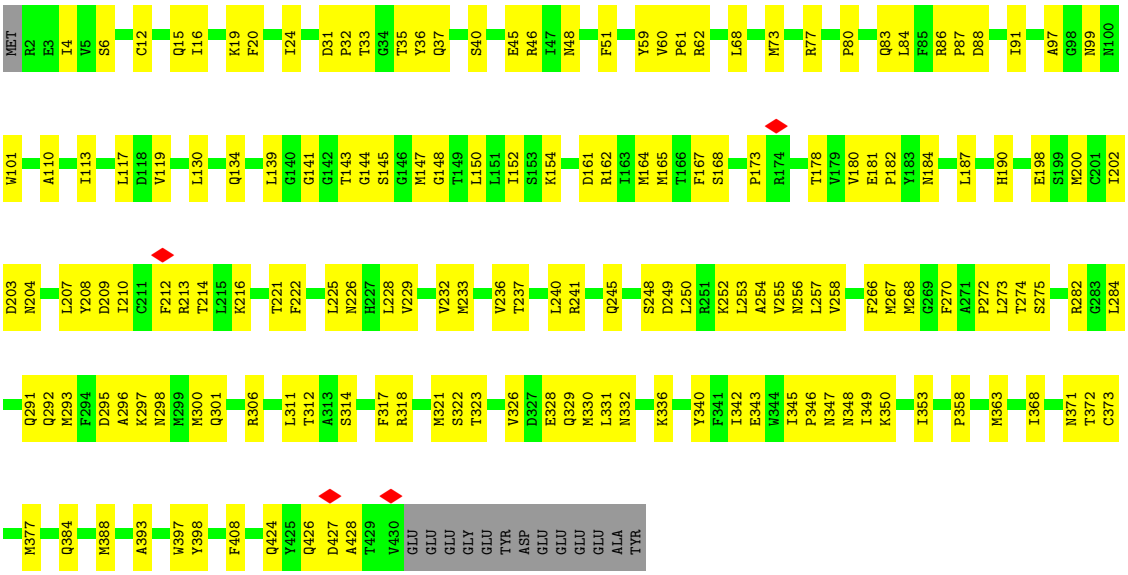
• Molecule 1: Tubulin beta chain

Chain GD:



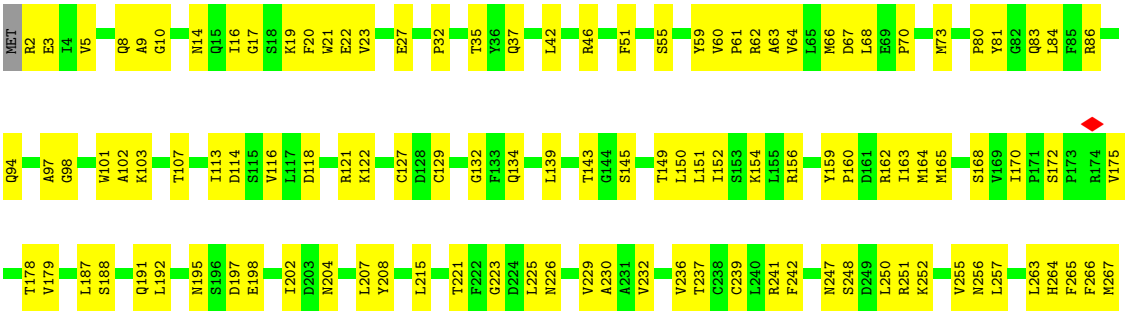
• Molecule 1: Tubulin beta chain

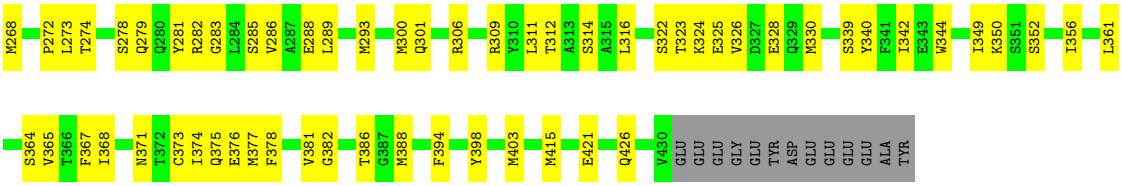
Chain GF:



• Molecule 1: Tubulin beta chain

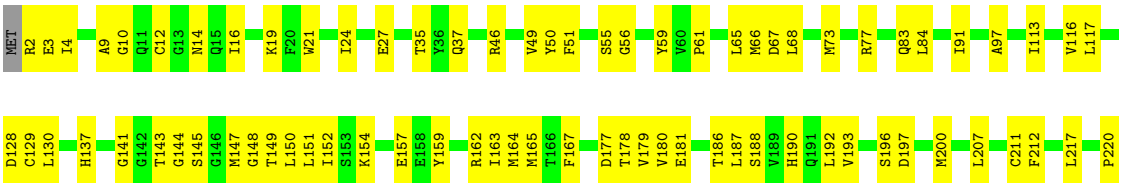
Chain GH:





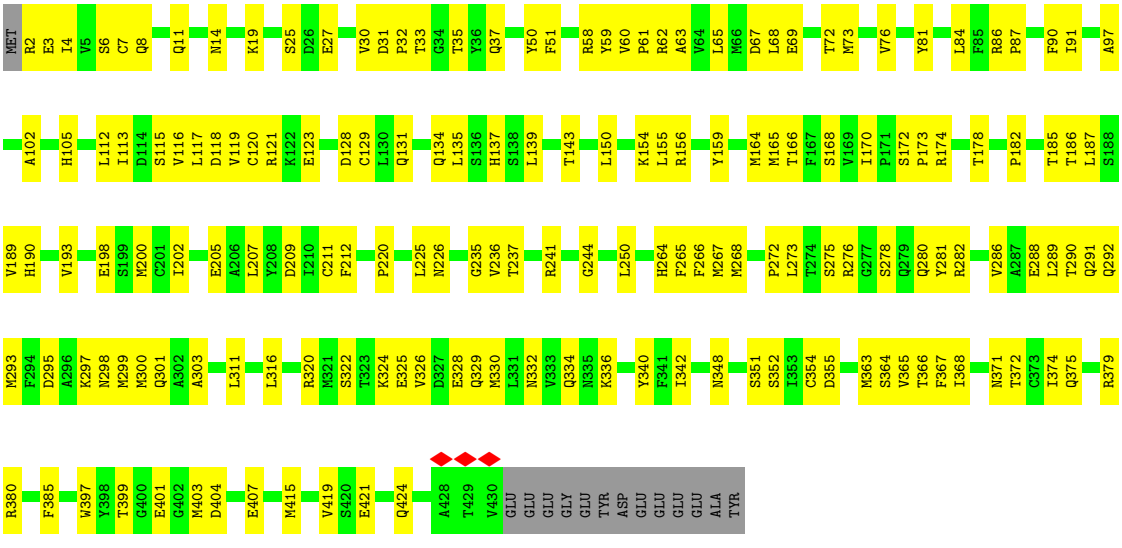
• Molecule 1: Tubulin beta chain

Chain GJ:



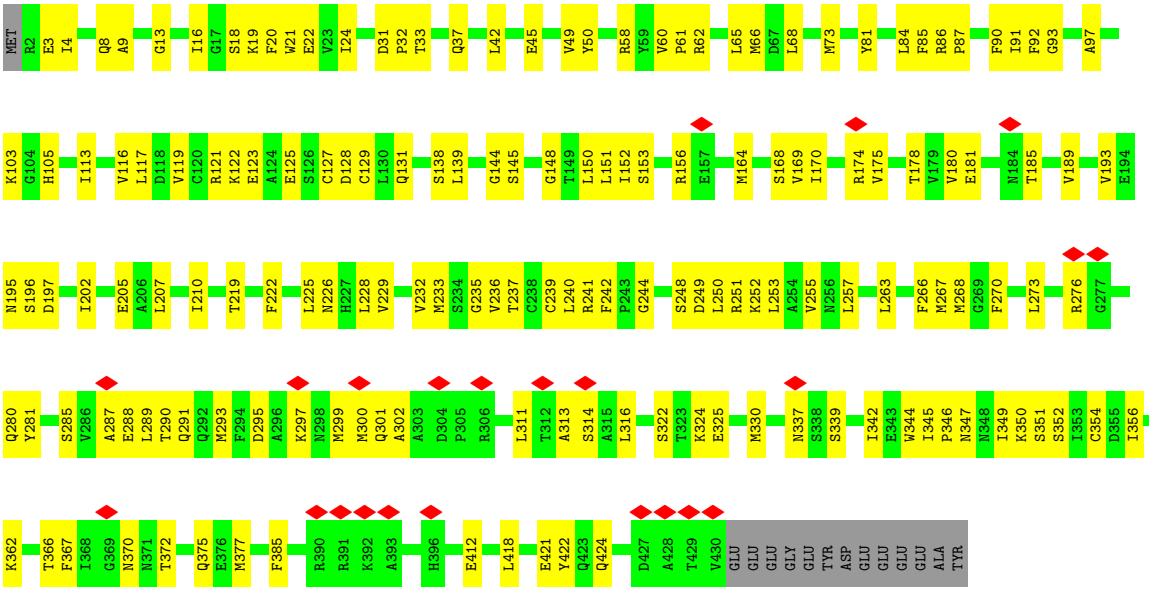
• Molecule 1: Tubulin beta chain

Chain GL:



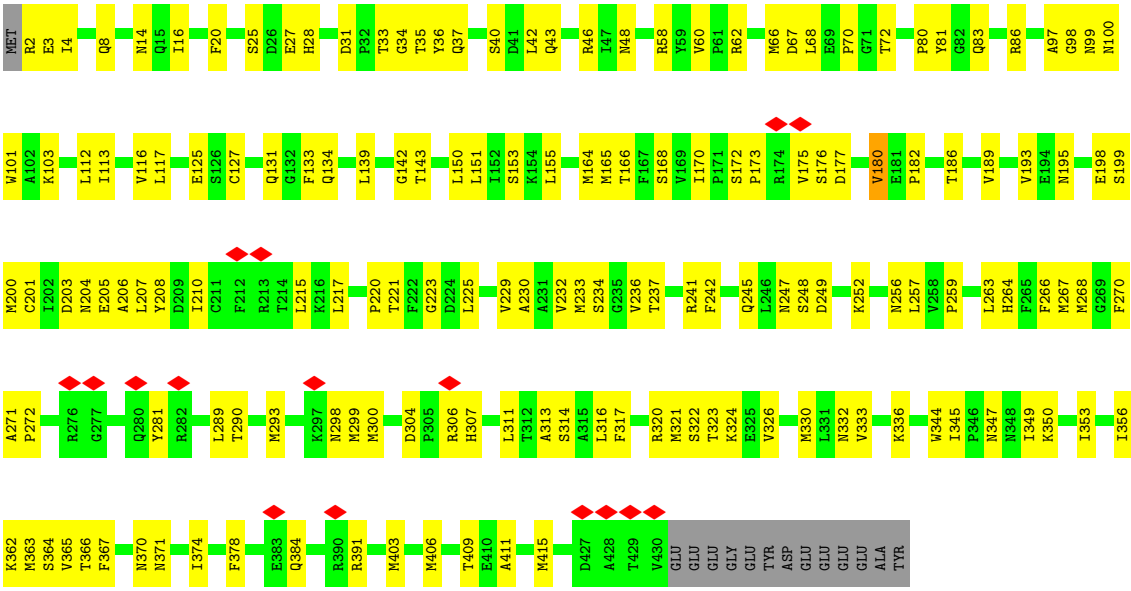
• Molecule 1: Tubulin beta chain

Chain H:



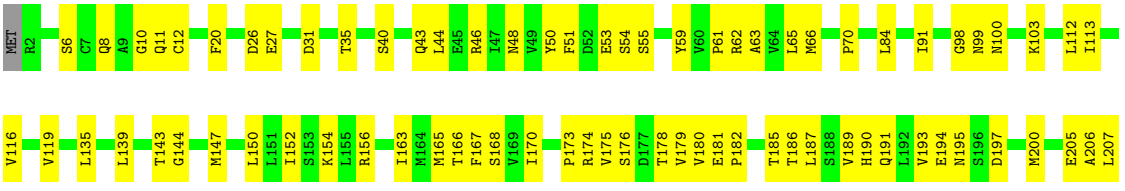
• Molecule 1: Tubulin beta chain

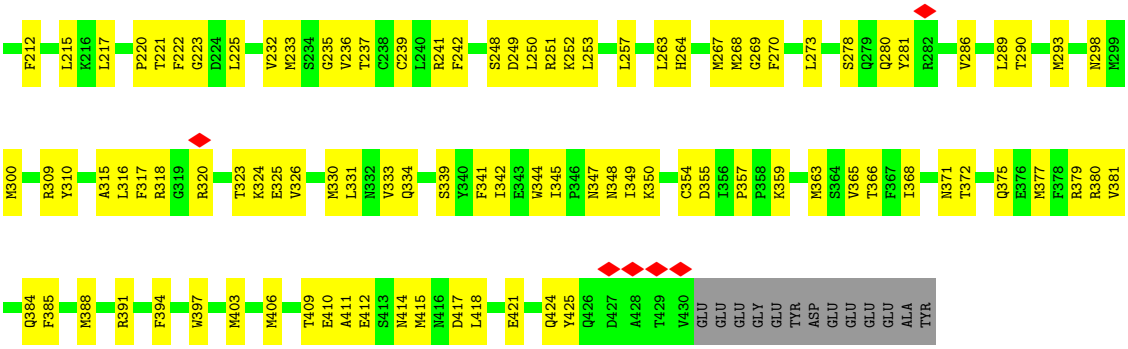
Chain HB:



• Molecule 1: Tubulin beta chain

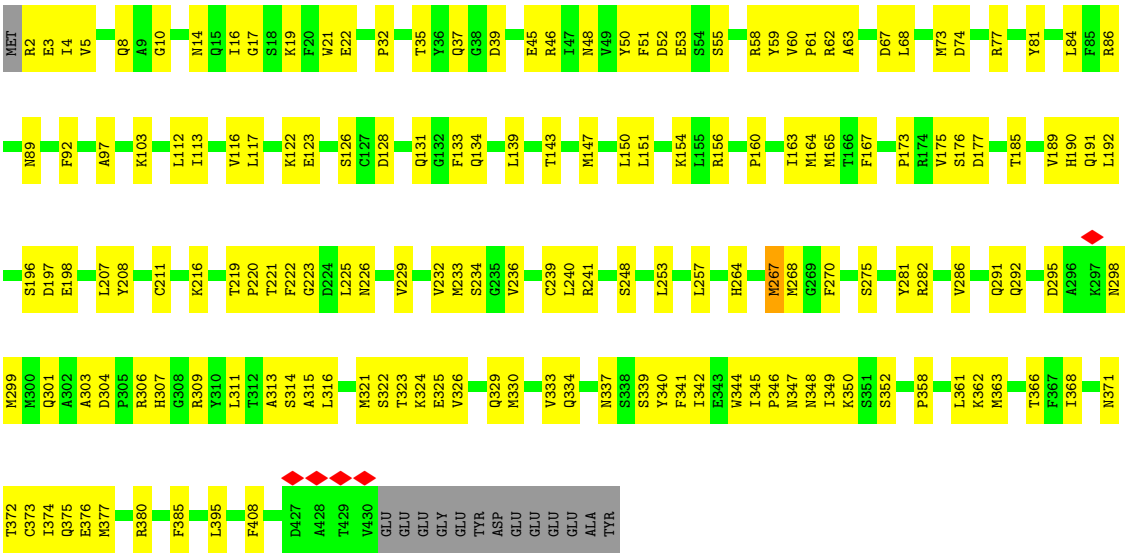
Chain HD:





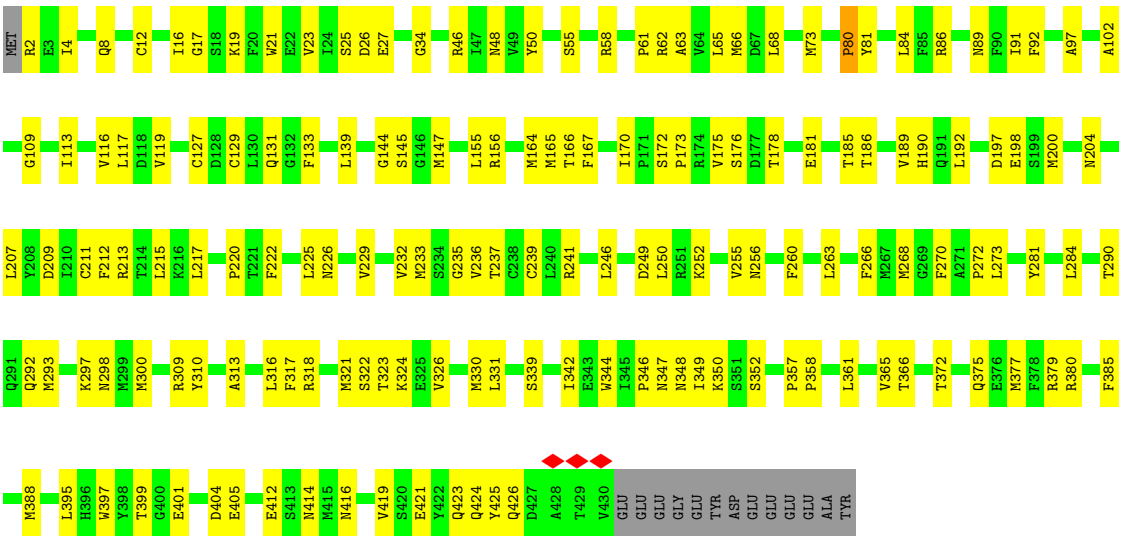
• Molecule 1: Tubulin beta chain

Chain HF:



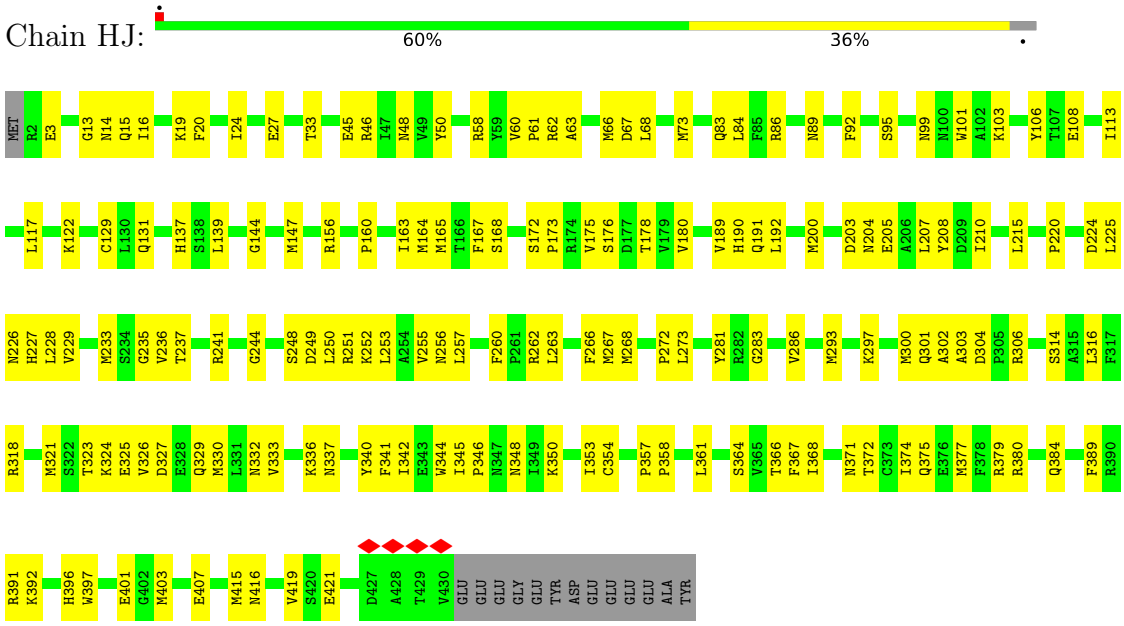
• Molecule 1: Tubulin beta chain

Chain HH:



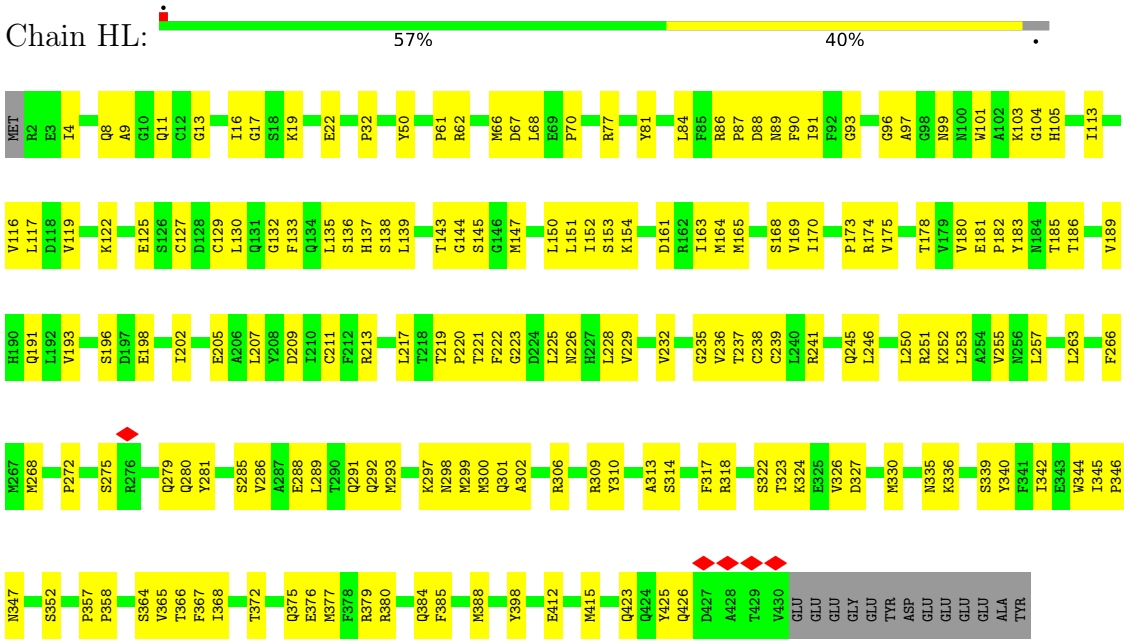
• Molecule 1: Tubulin beta chain

Chain HJ:



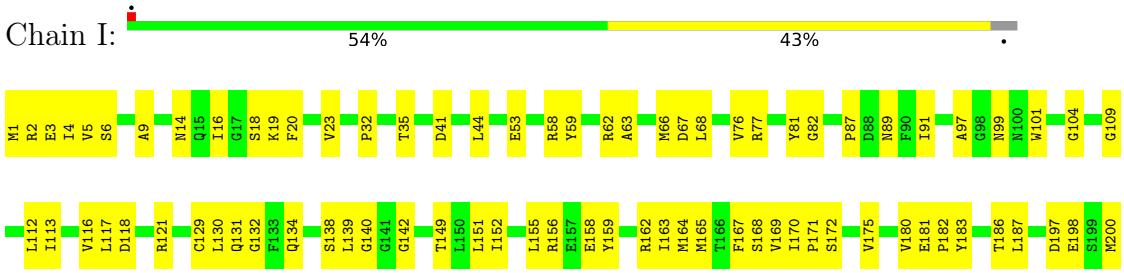
• Molecule 1: Tubulin beta chain

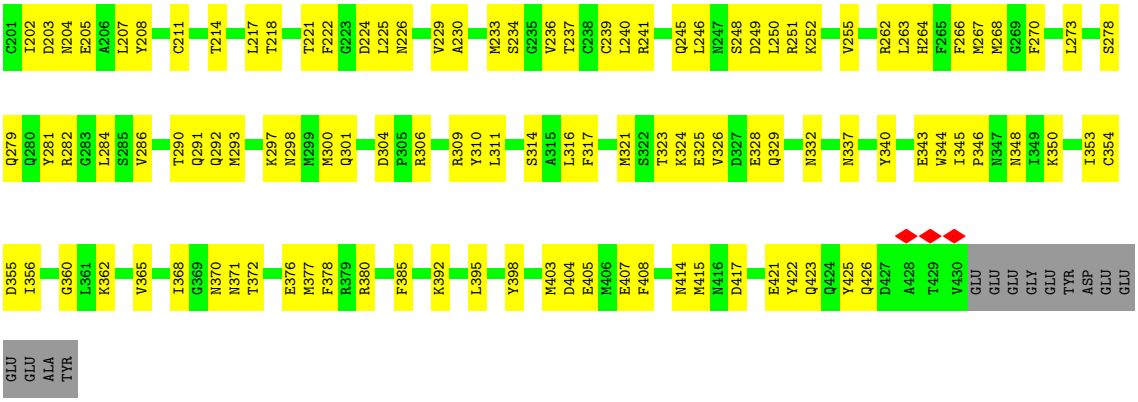
Chain HL:



• Molecule 1: Tubulin beta chain

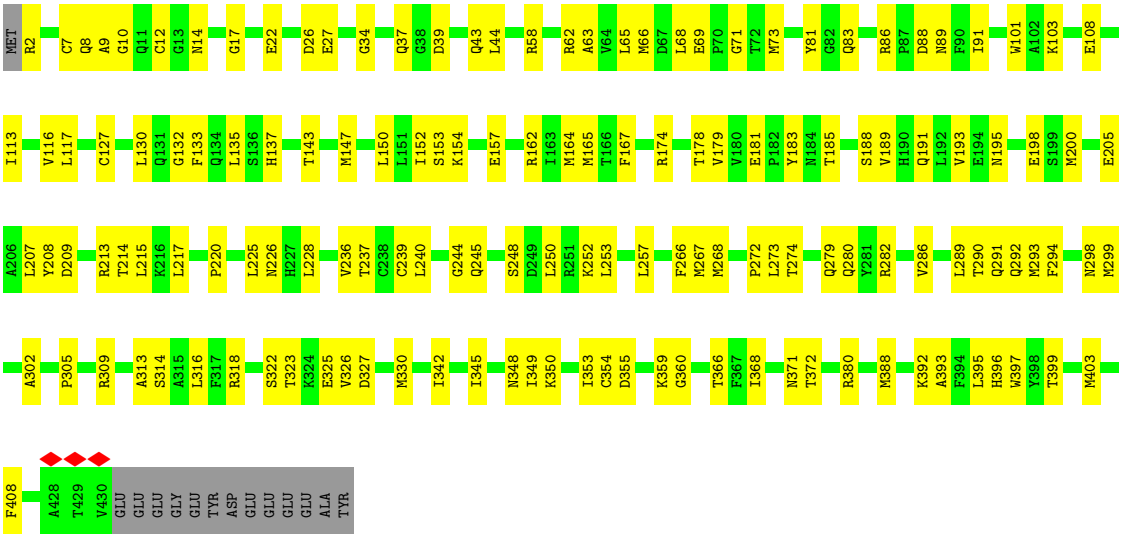
Chain I:





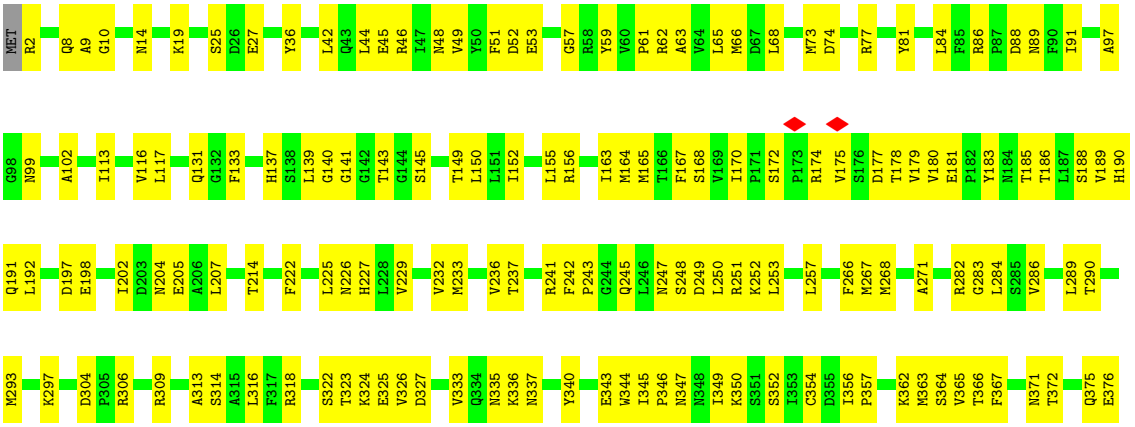
• Molecule 1: Tubulin beta chain

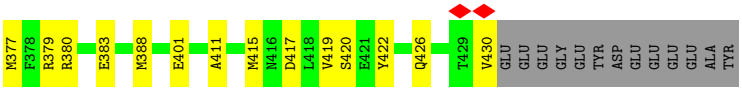
Chain IB:



• Molecule 1: Tubulin beta chain

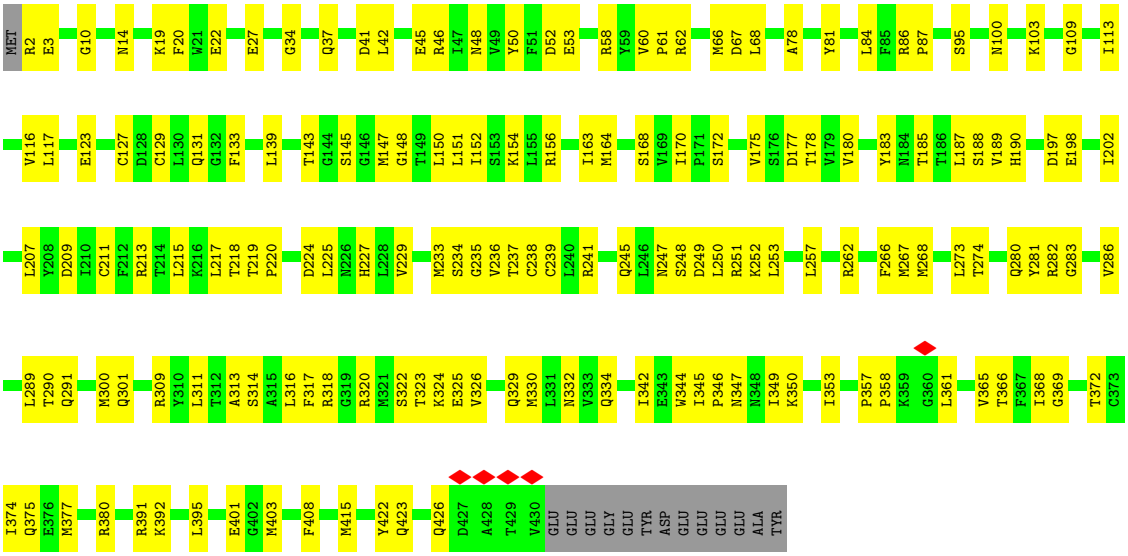
Chain ID:





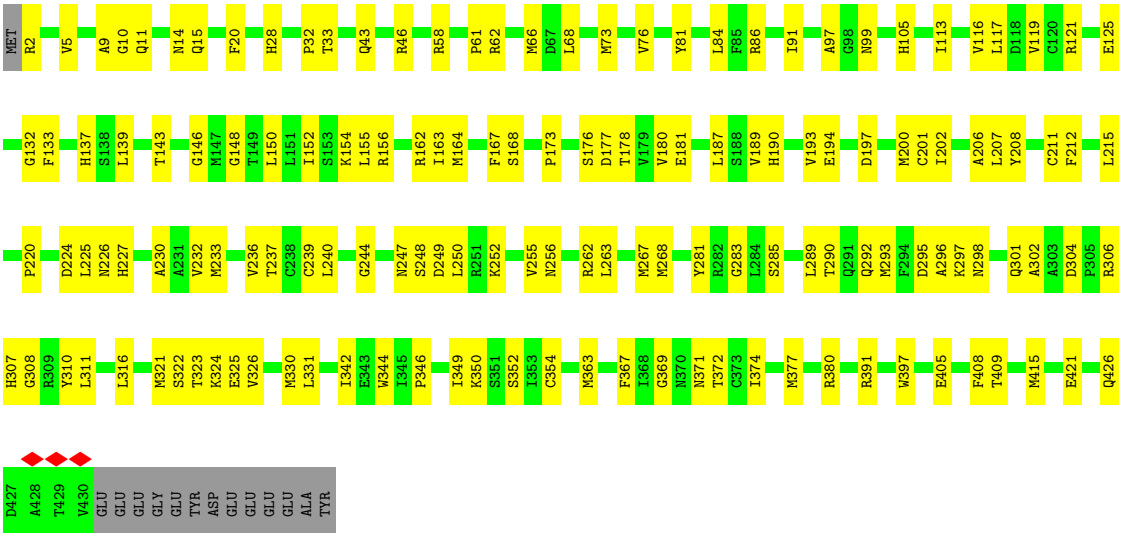
• Molecule 1: Tubulin beta chain

Chain IF:



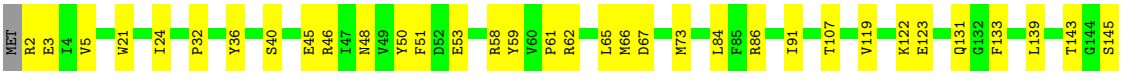
• Molecule 1: Tubulin beta chain

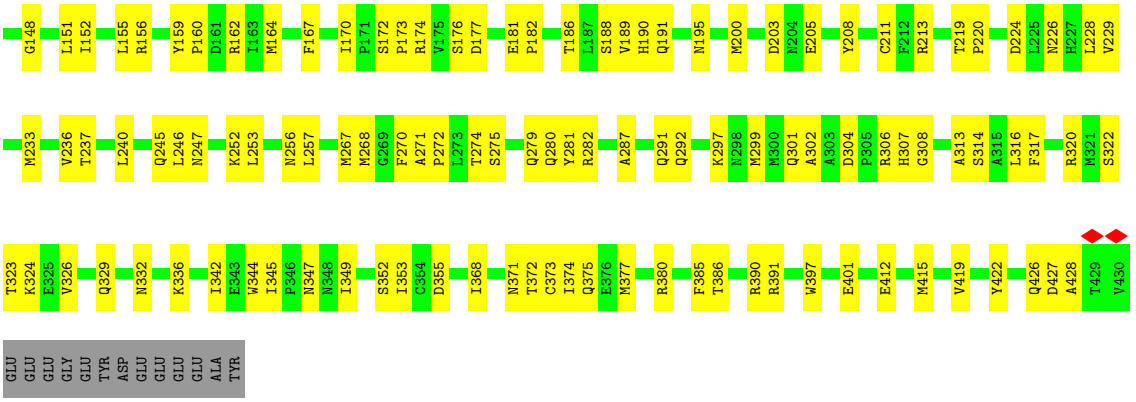
Chain IH:



• Molecule 1: Tubulin beta chain

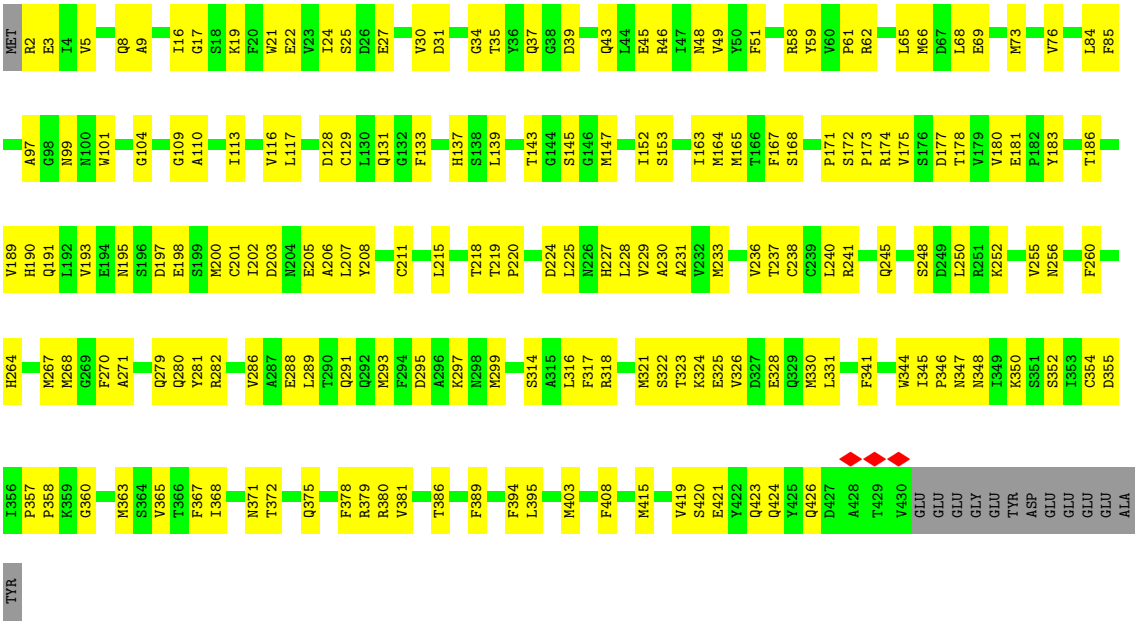
Chain IJ:





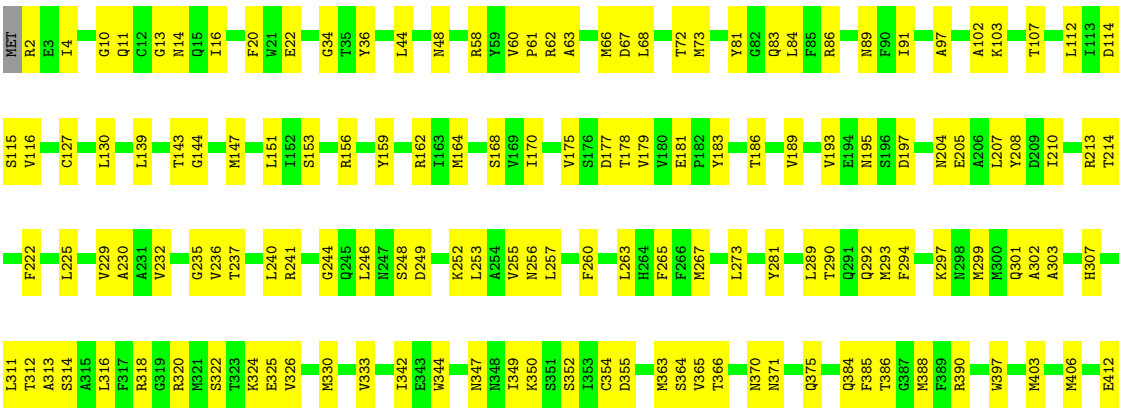
• Molecule 1: Tubulin beta chain

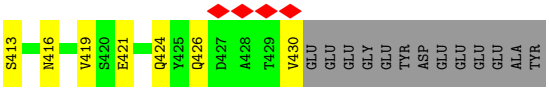
Chain IL:



• Molecule 1: Tubulin beta chain

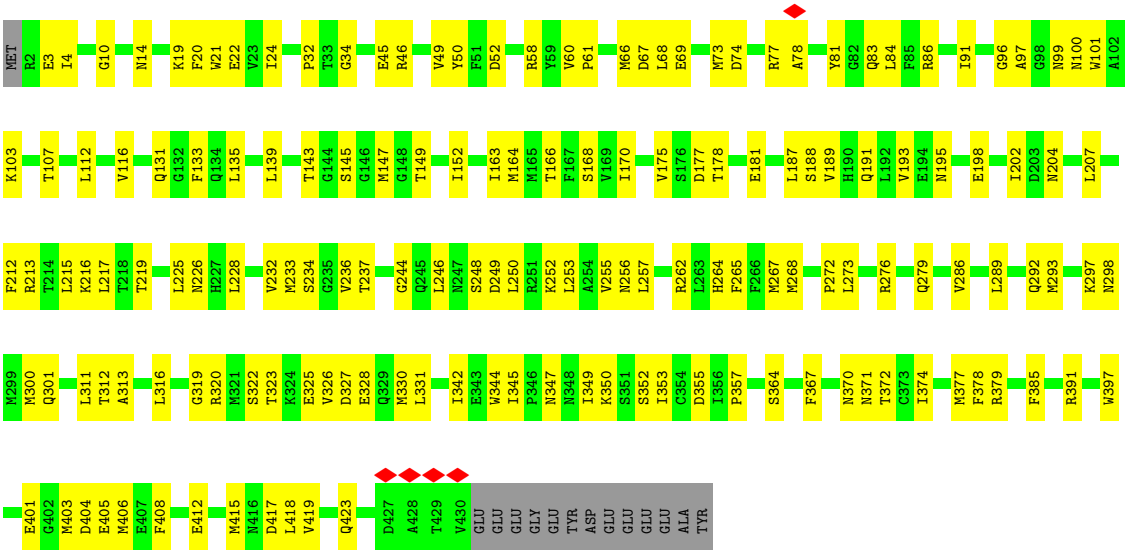
Chain JA:





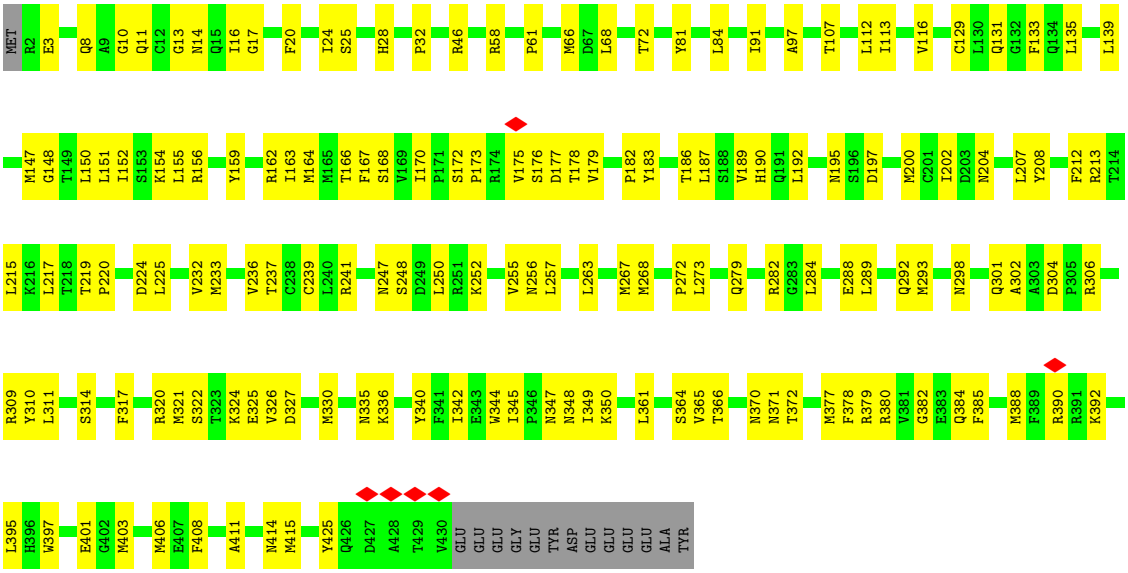
• Molecule 1: Tubulin beta chain

Chain JC:



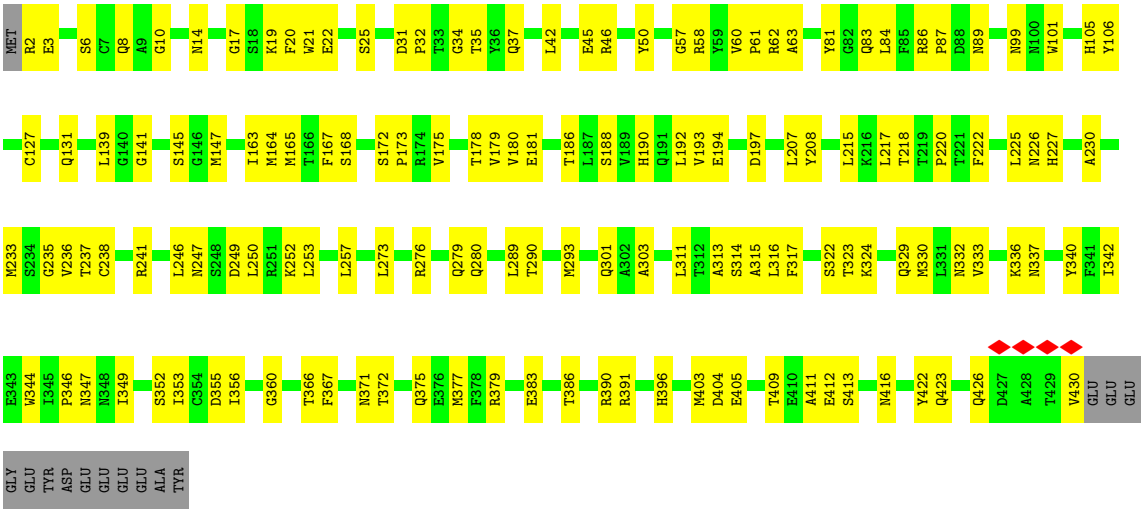
• Molecule 1: Tubulin beta chain

Chain JE:



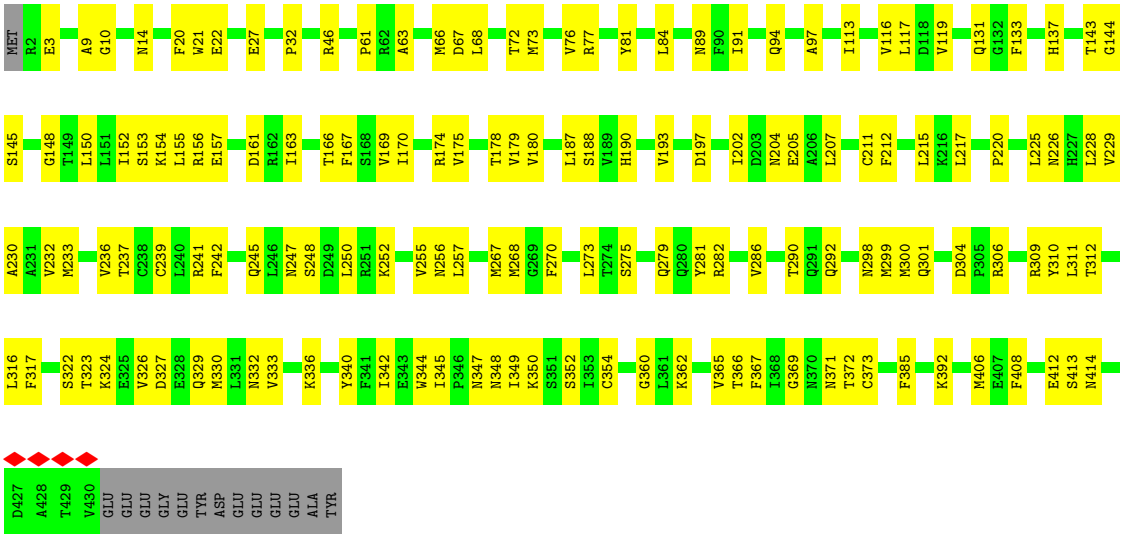
• Molecule 1: Tubulin beta chain

Chain JG:



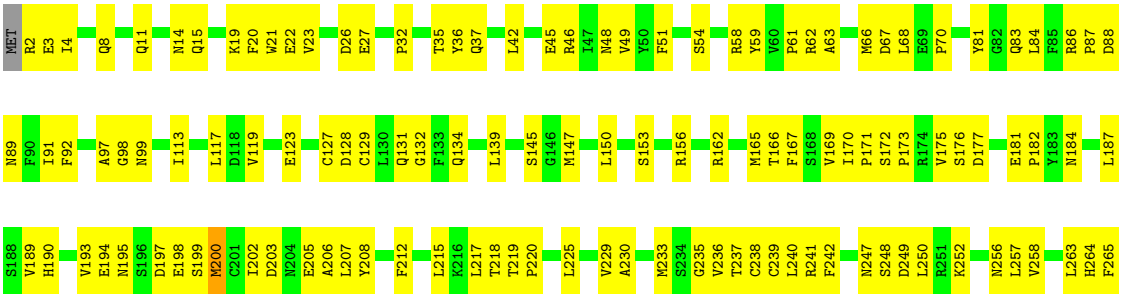
• Molecule 1: Tubulin beta chain

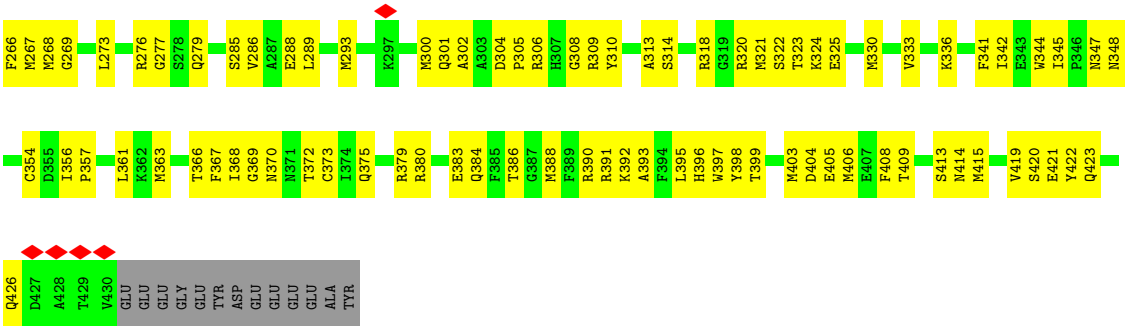
Chain JI:



• Molecule 1: Tubulin beta chain

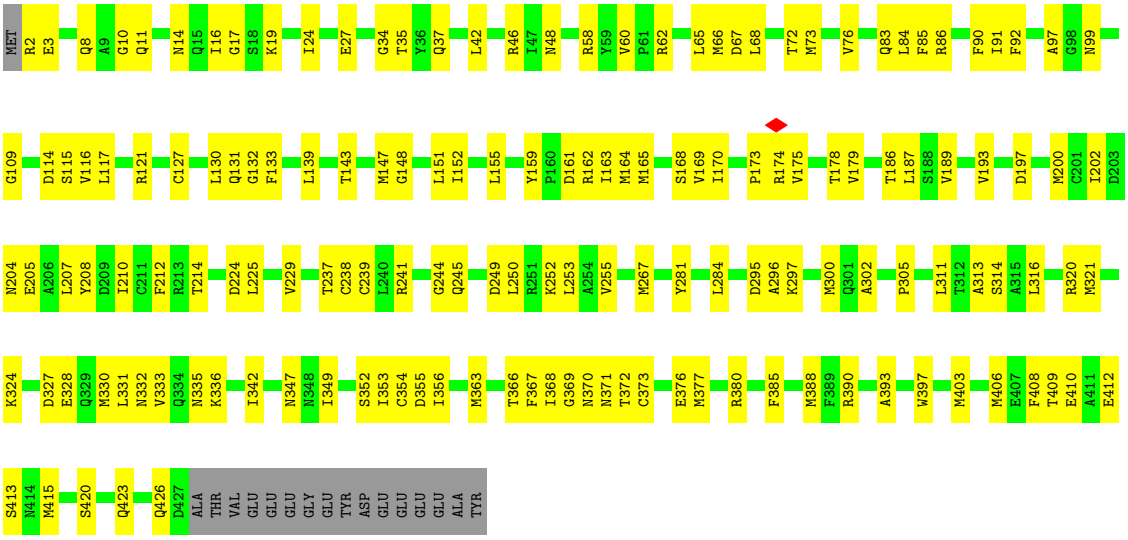
Chain JK:





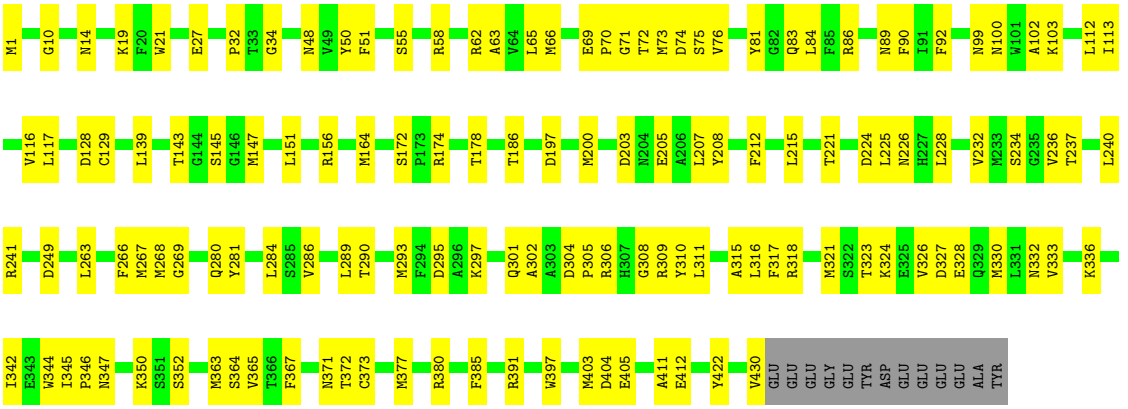
• Molecule 1: Tubulin beta chain

Chain JM:



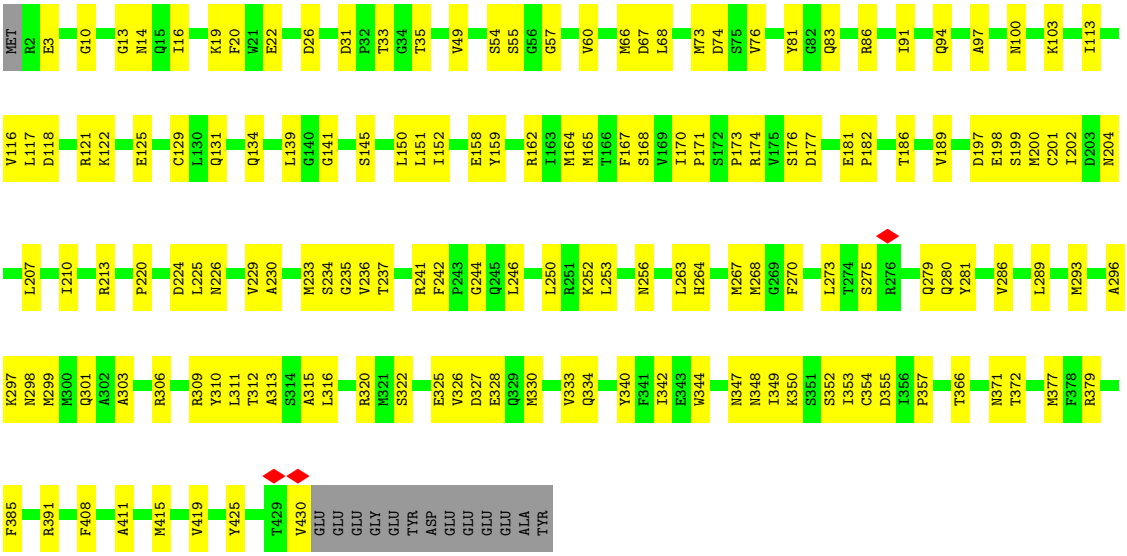
• Molecule 1: Tubulin beta chain

Chain KA:



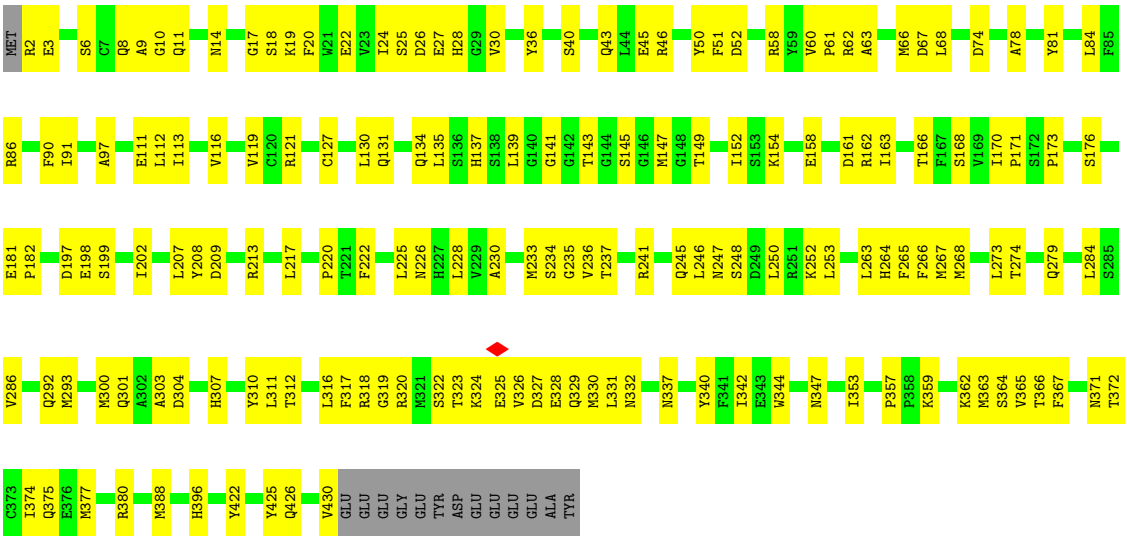
• Molecule 1: Tubulin beta chain

Chain KC:



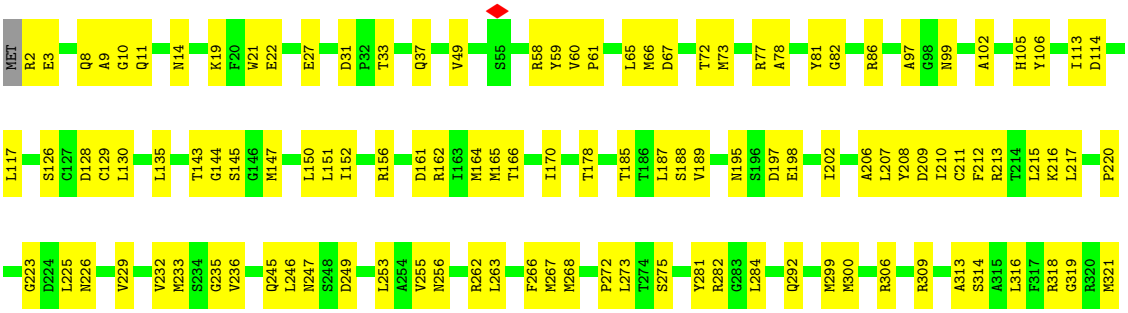
• Molecule 1: Tubulin beta chain

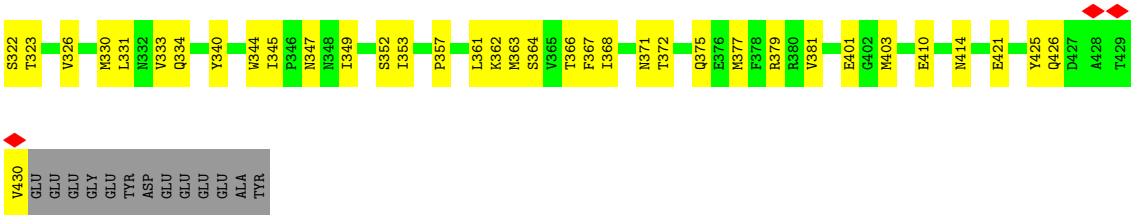
Chain KE:



• Molecule 1: Tubulin beta chain

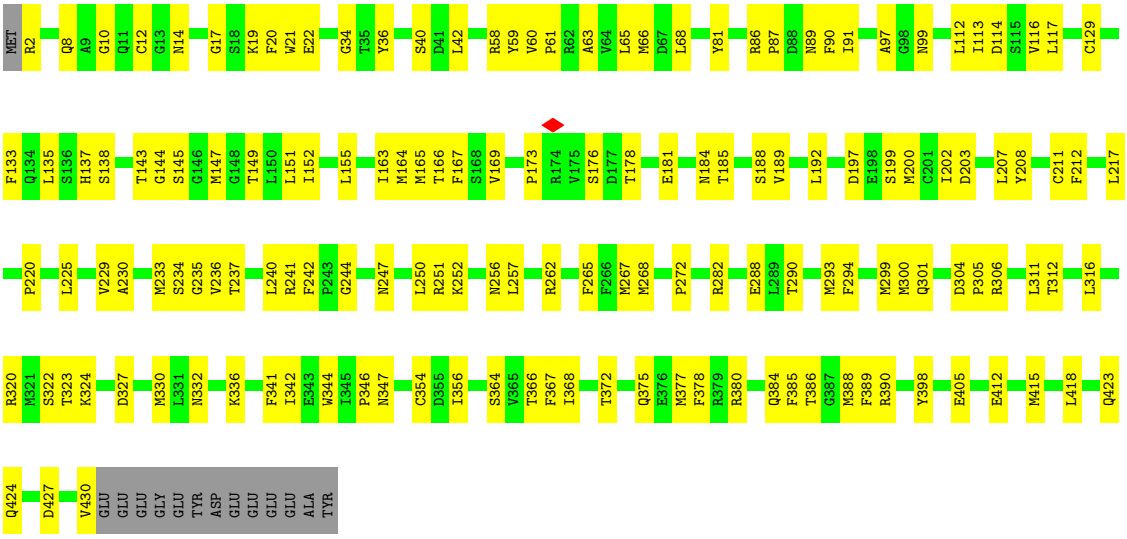
Chain KG:





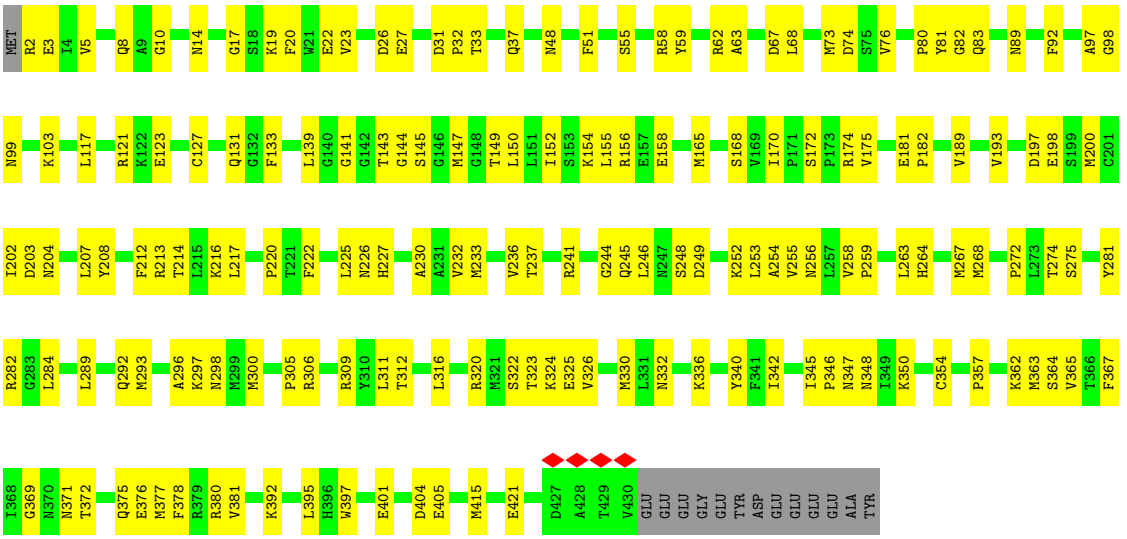
• Molecule 1: Tubulin beta chain

Chain KI:



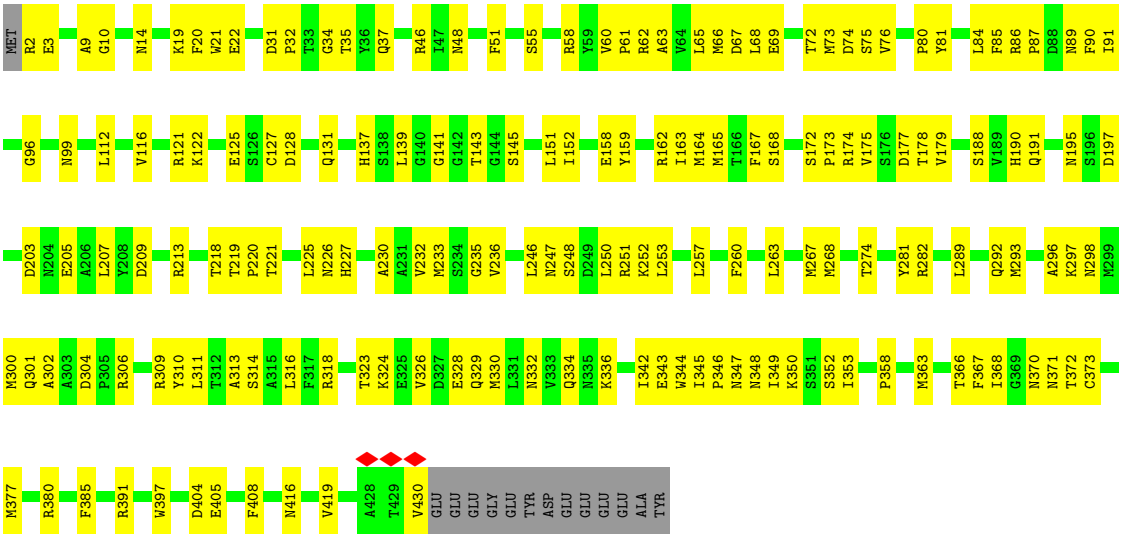
• Molecule 1: Tubulin beta chain

Chain KK:



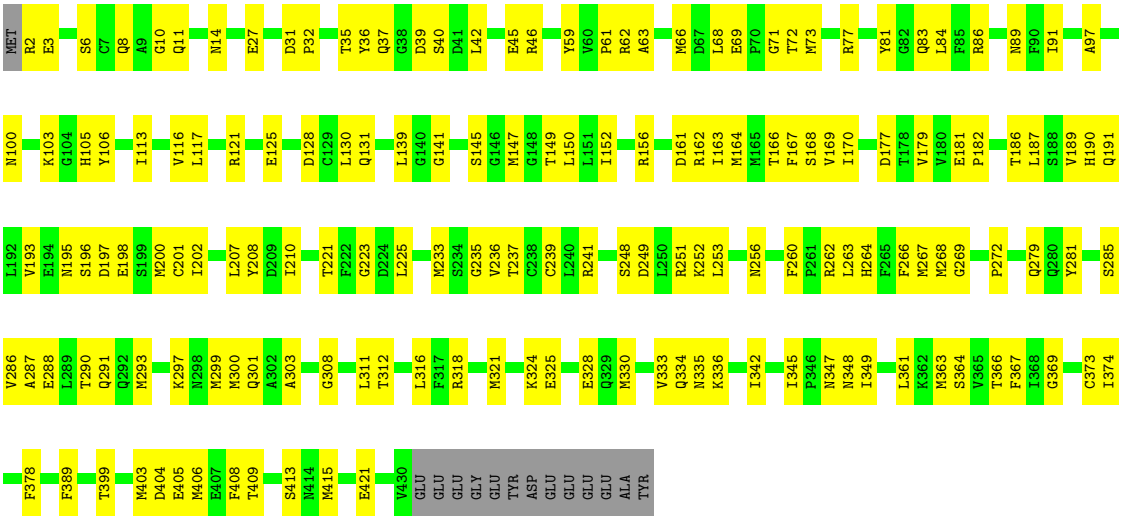
• Molecule 1: Tubulin beta chain

Chain KM:



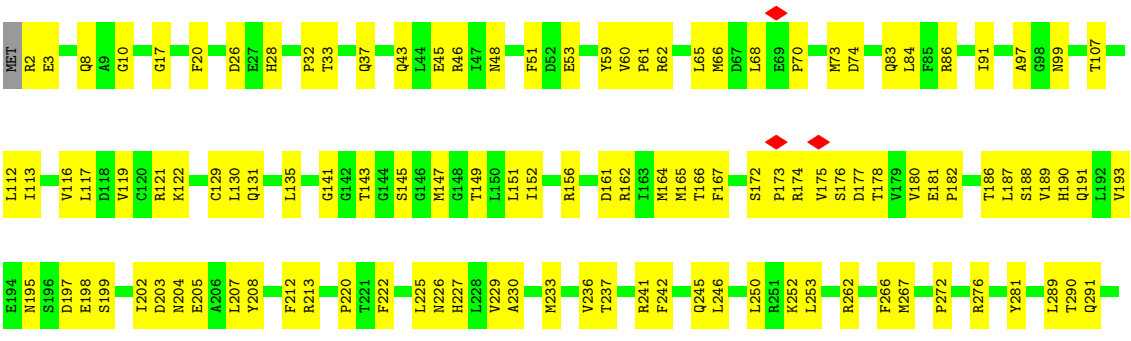
• Molecule 1: Tubulin beta chain

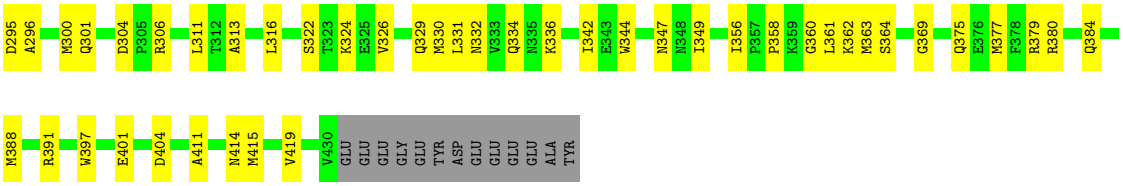
Chain LA:



• Molecule 1: Tubulin beta chain

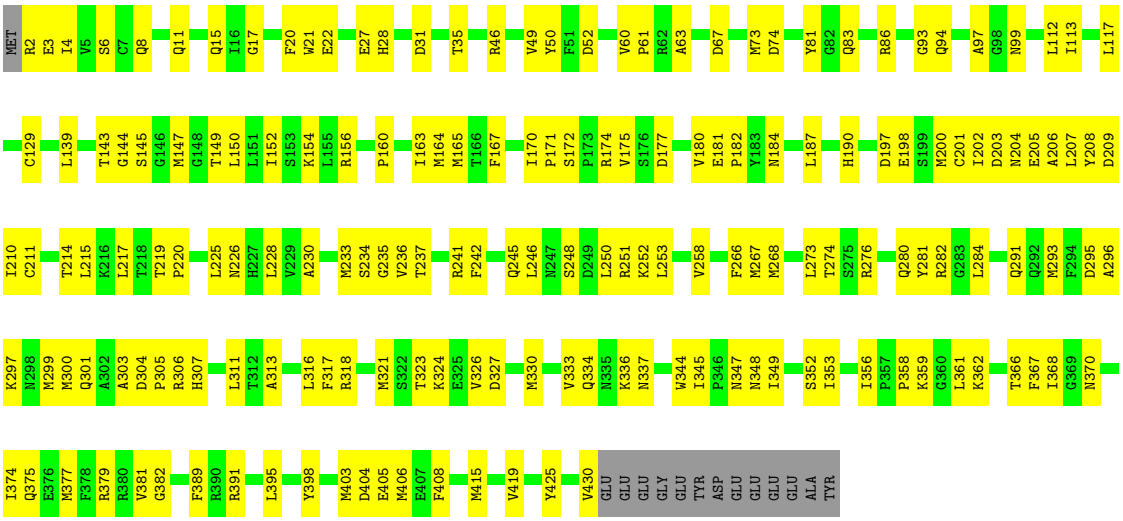
Chain LC:





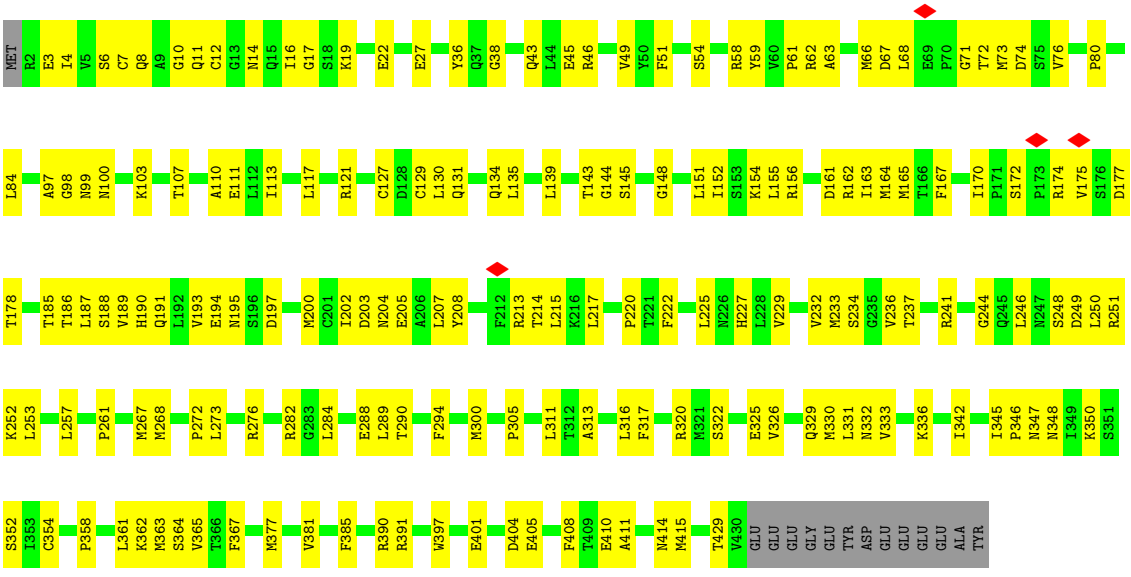
• Molecule 1: Tubulin beta chain

Chain LE:



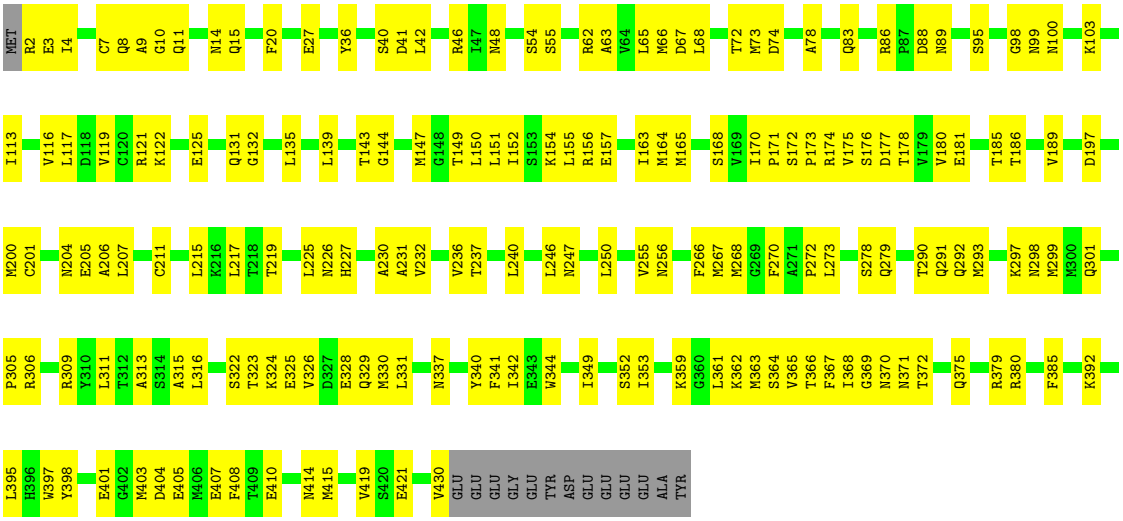
• Molecule 1: Tubulin beta chain

Chain LG:



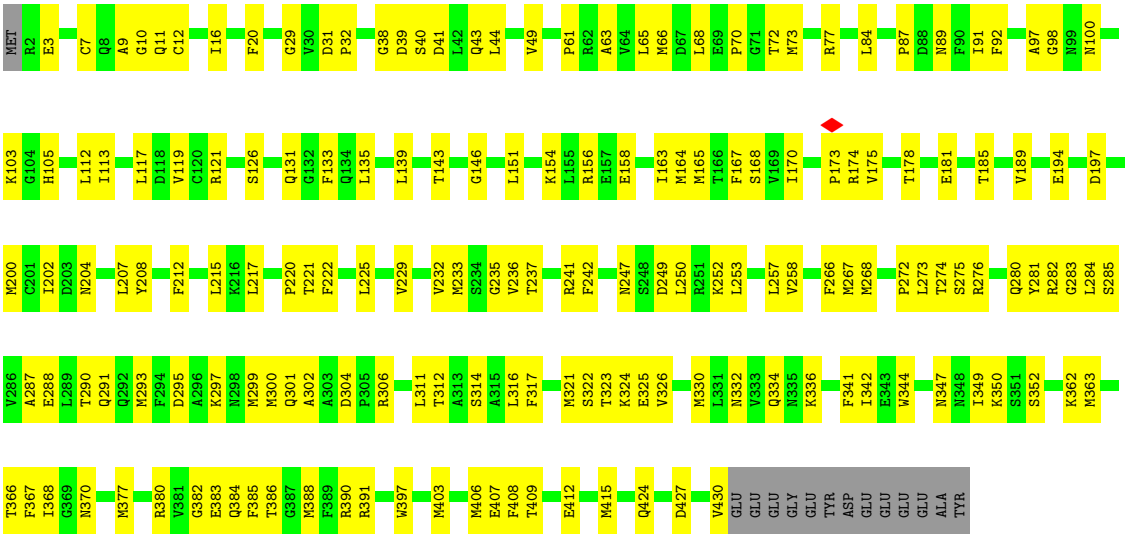
• Molecule 1: Tubulin beta chain

Chain LI:



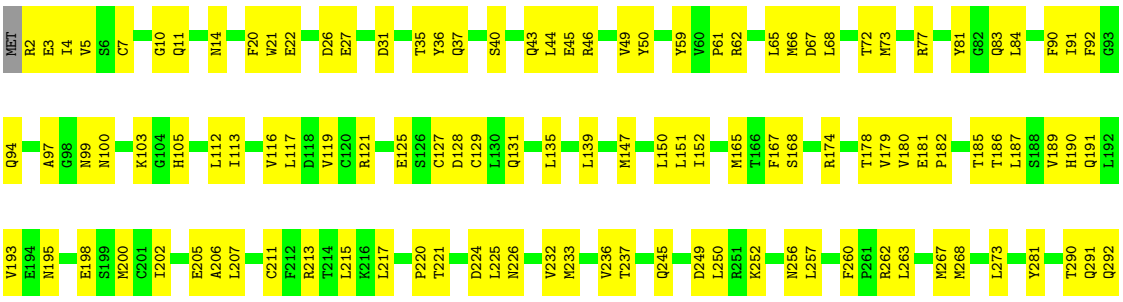
• Molecule 1: Tubulin beta chain

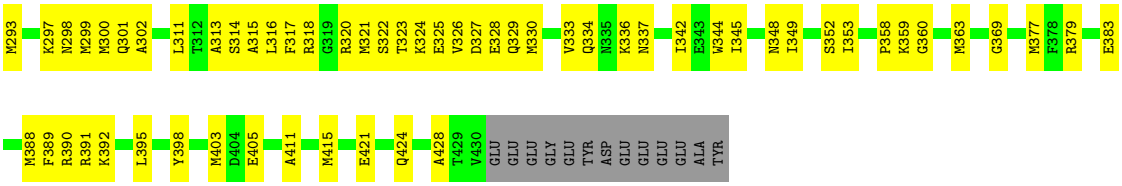
Chain LK:



• Molecule 1: Tubulin beta chain

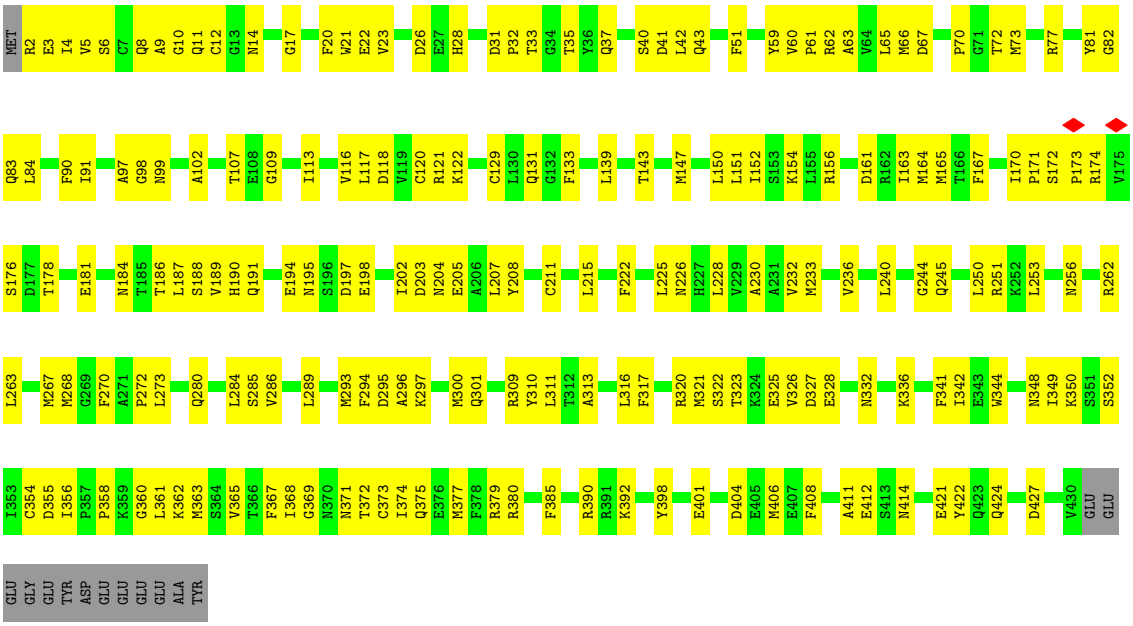
Chain LM:





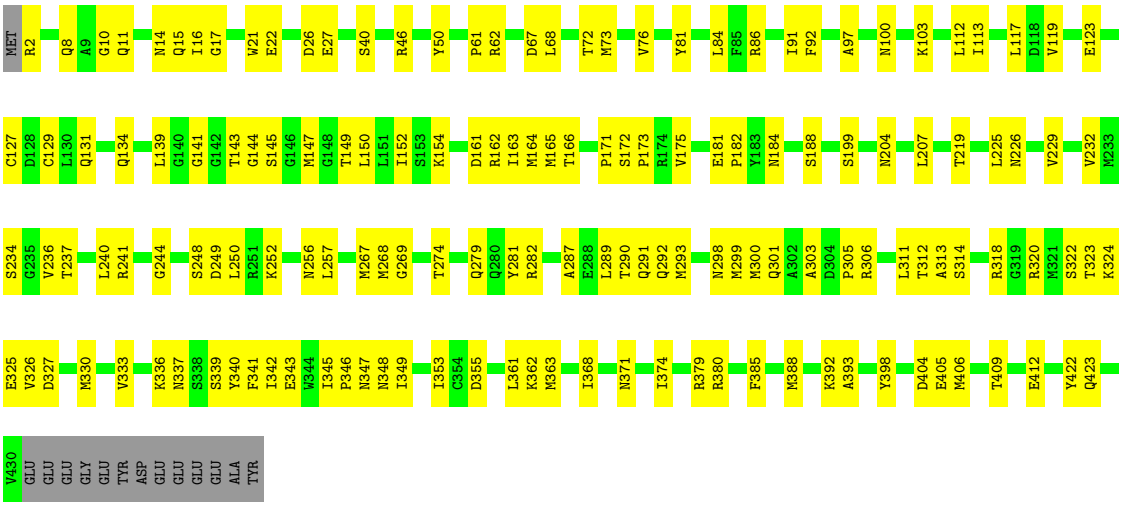
• Molecule 1: Tubulin beta chain

Chain LO:



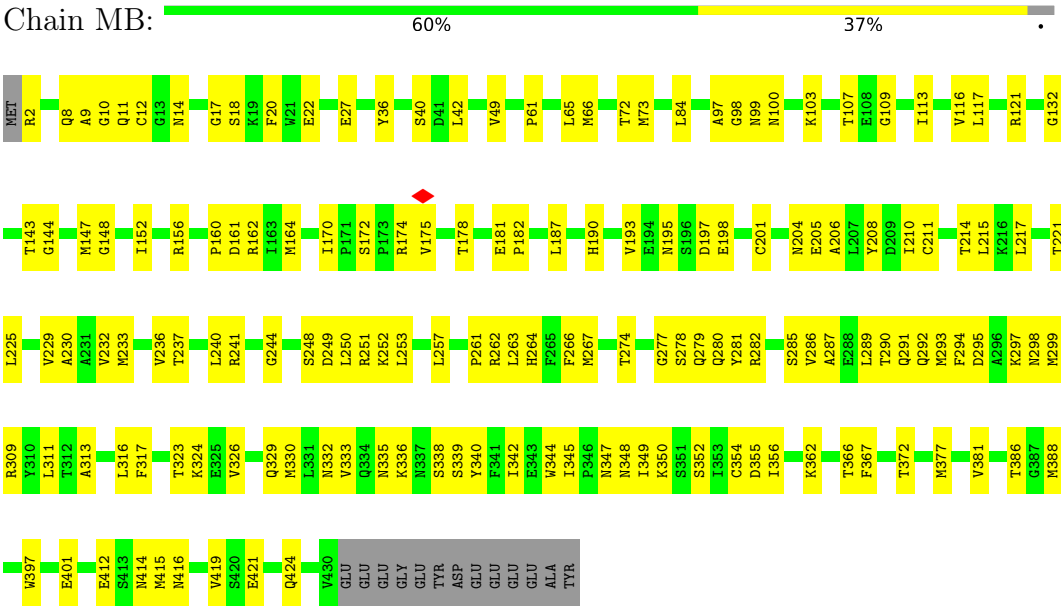
• Molecule 1: Tubulin beta chain

Chain M:



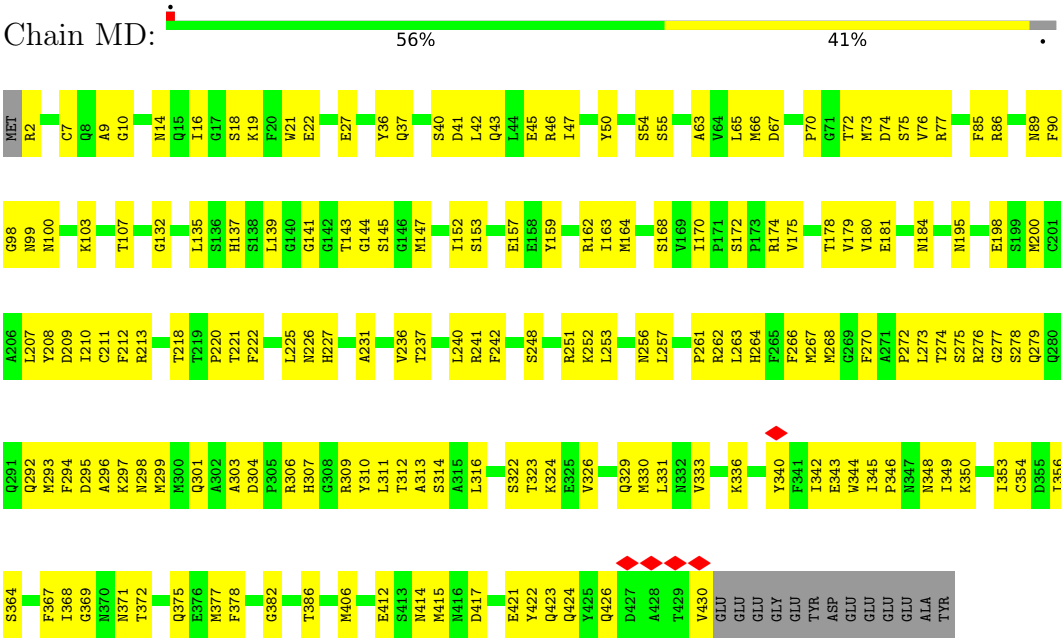
• Molecule 1: Tubulin beta chain

Chain MB:



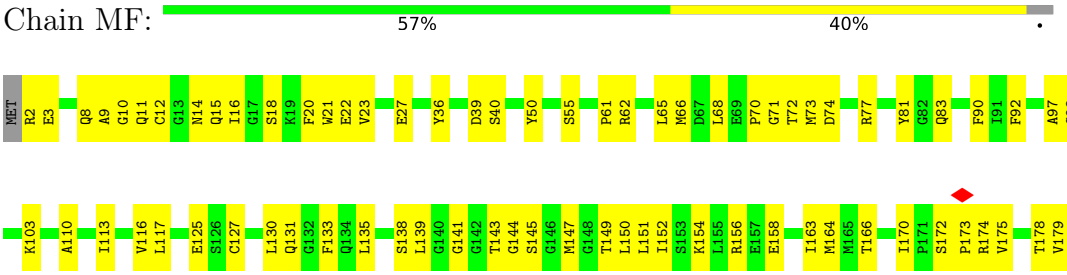
• Molecule 1: Tubulin beta chain

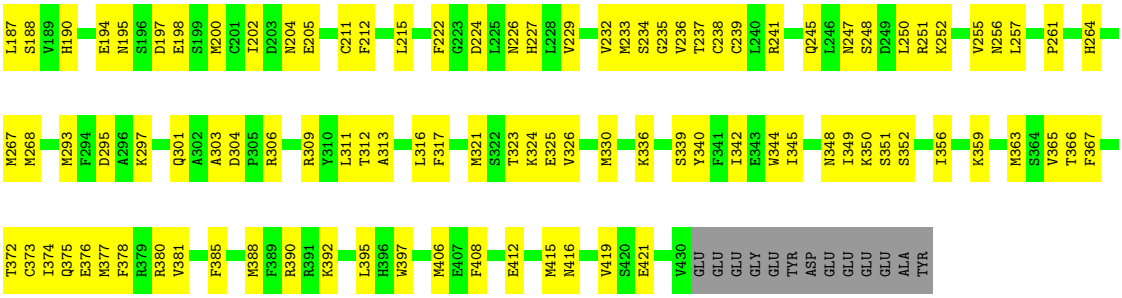
Chain MD:



• Molecule 1: Tubulin beta chain

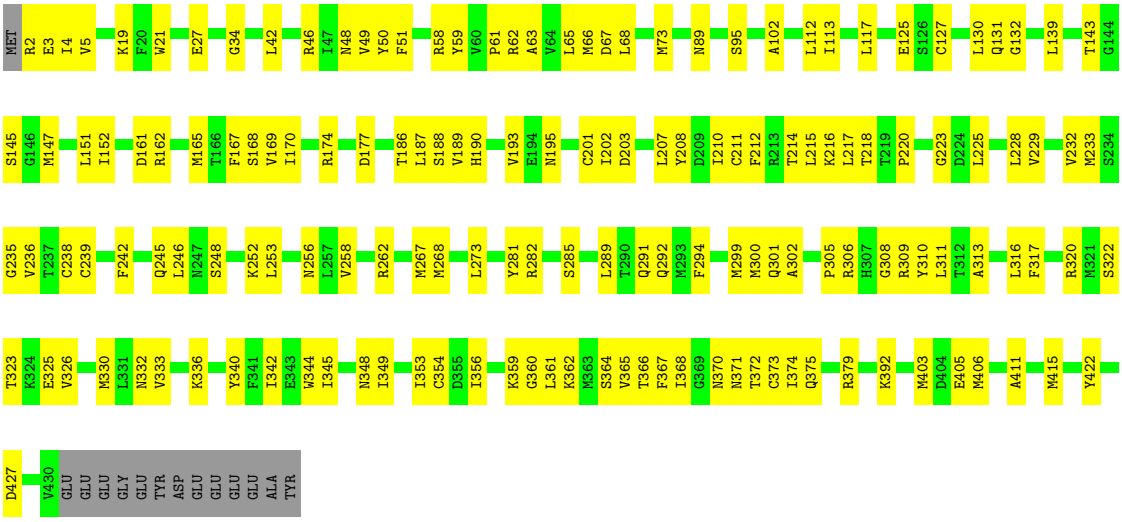
Chain MF:





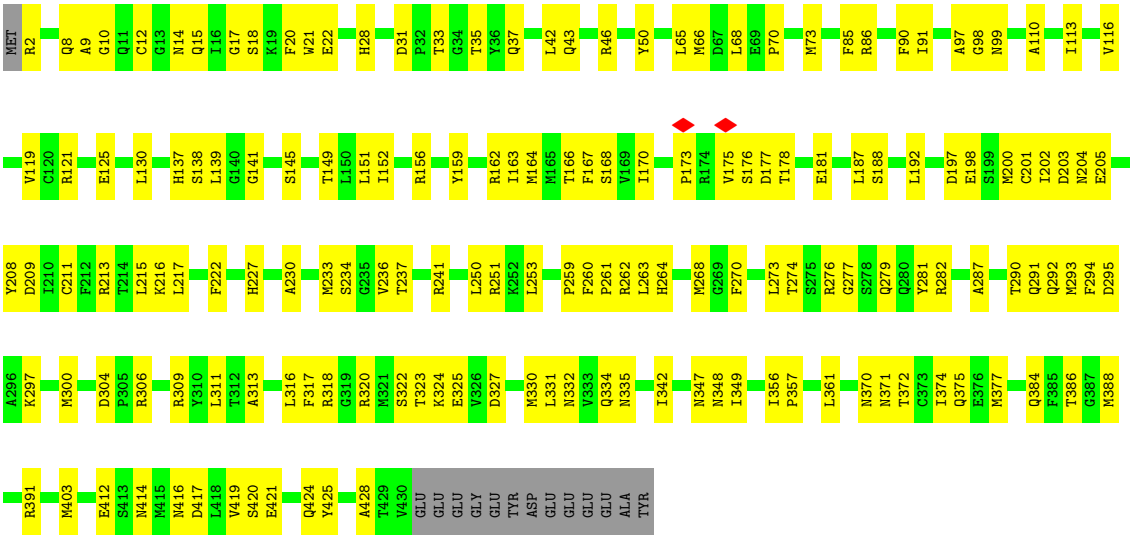
• Molecule 1: Tubulin beta chain

Chain MH:



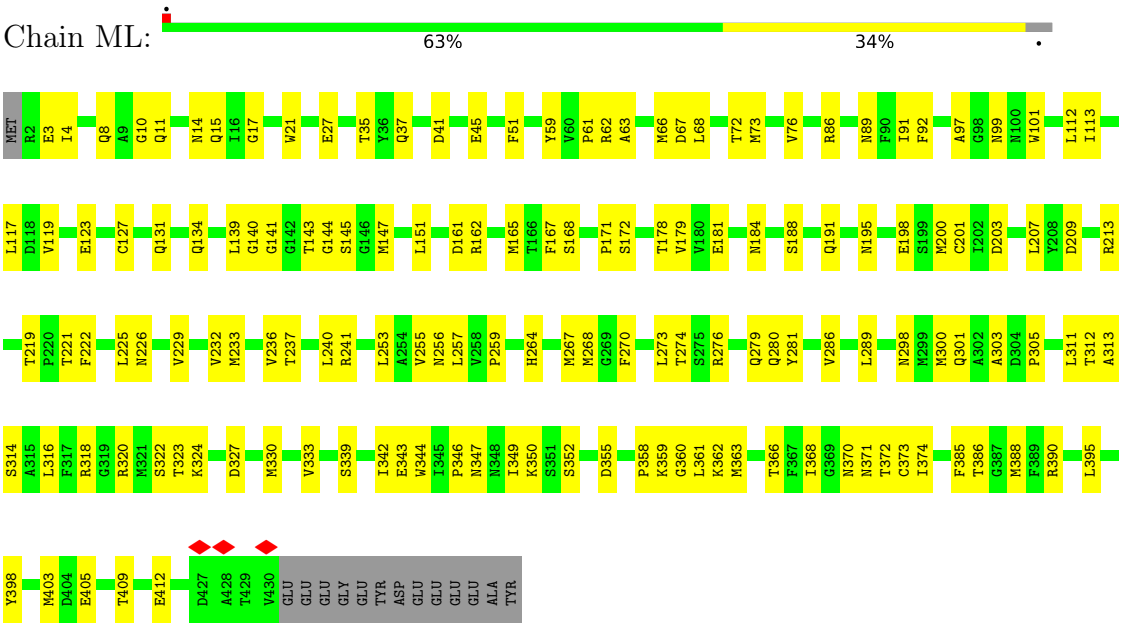
• Molecule 1: Tubulin beta chain

Chain MJ:



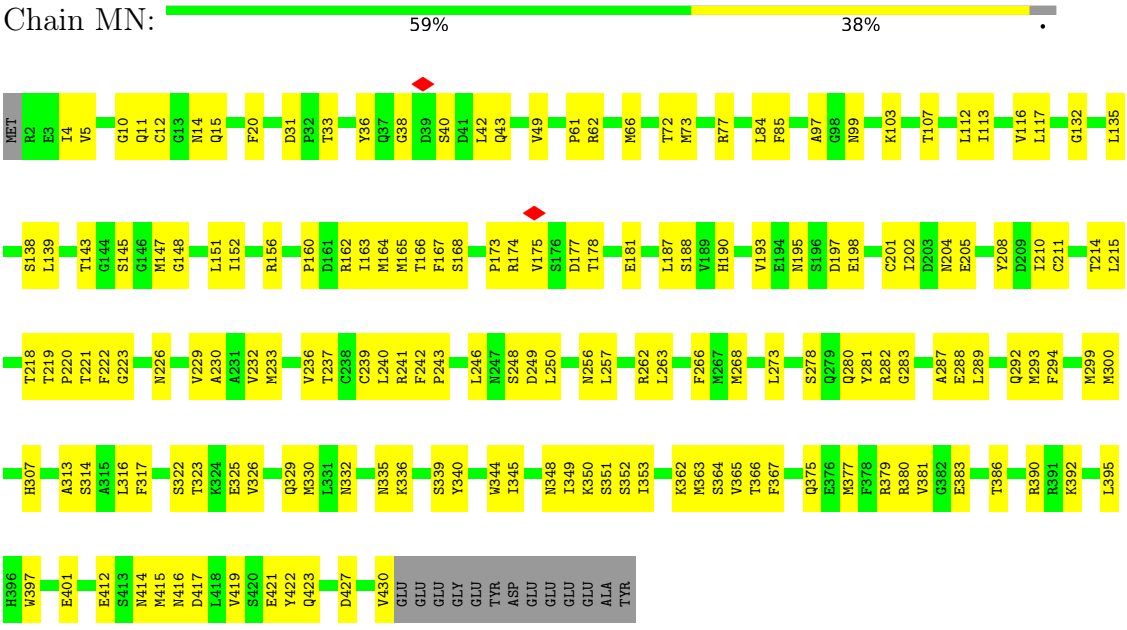
• Molecule 1: Tubulin beta chain

Chain ML:



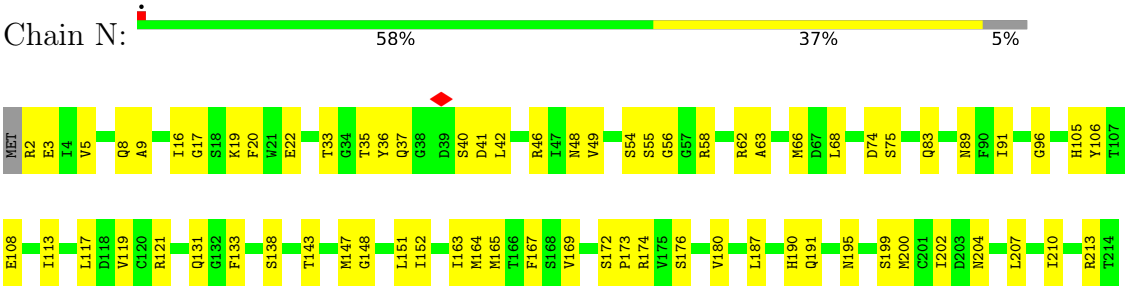
• Molecule 1: Tubulin beta chain

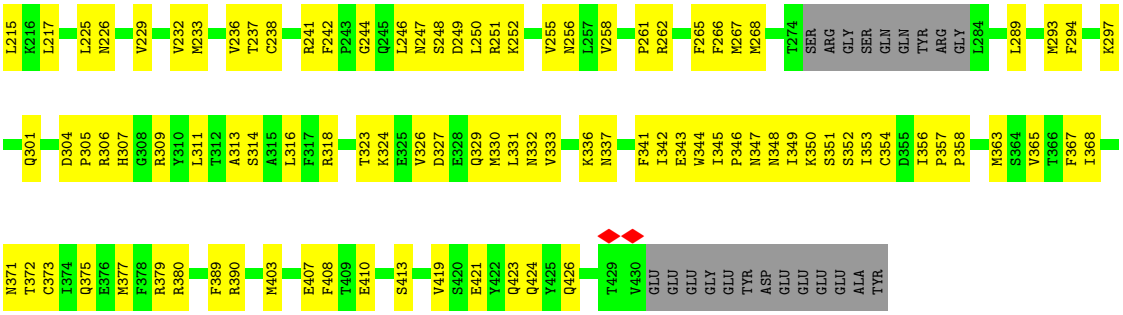
Chain MN:



• Molecule 1: Tubulin beta chain

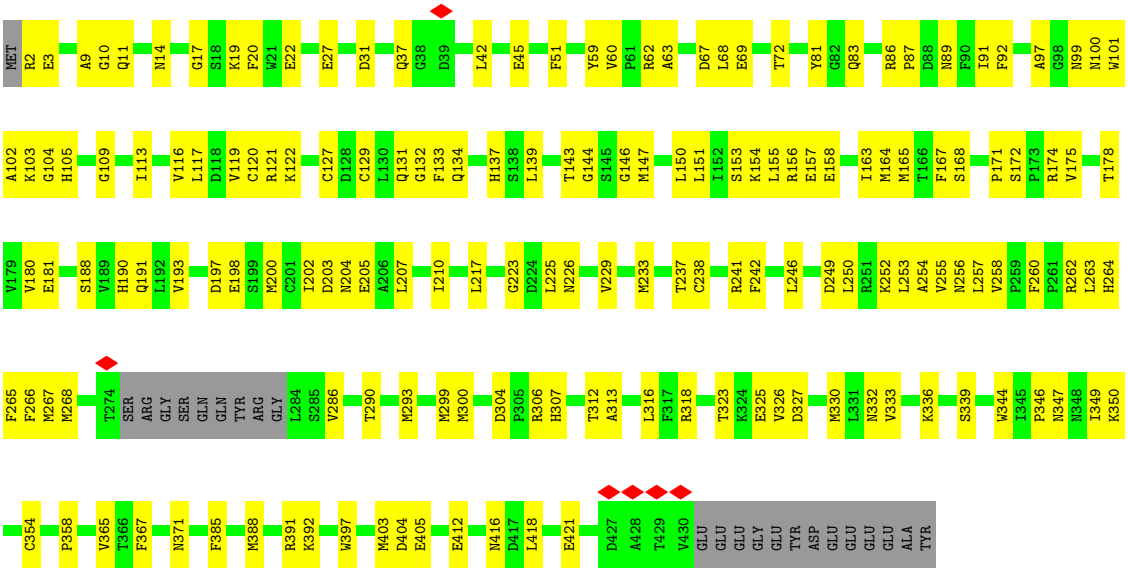
Chain N:





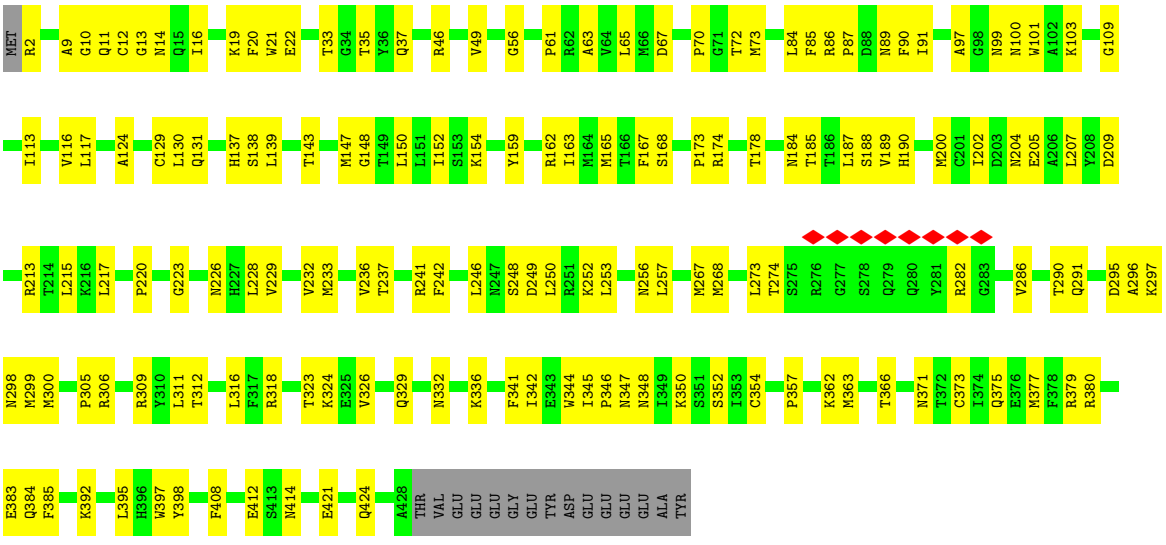
• Molecule 1: Tubulin beta chain

Chain NB:



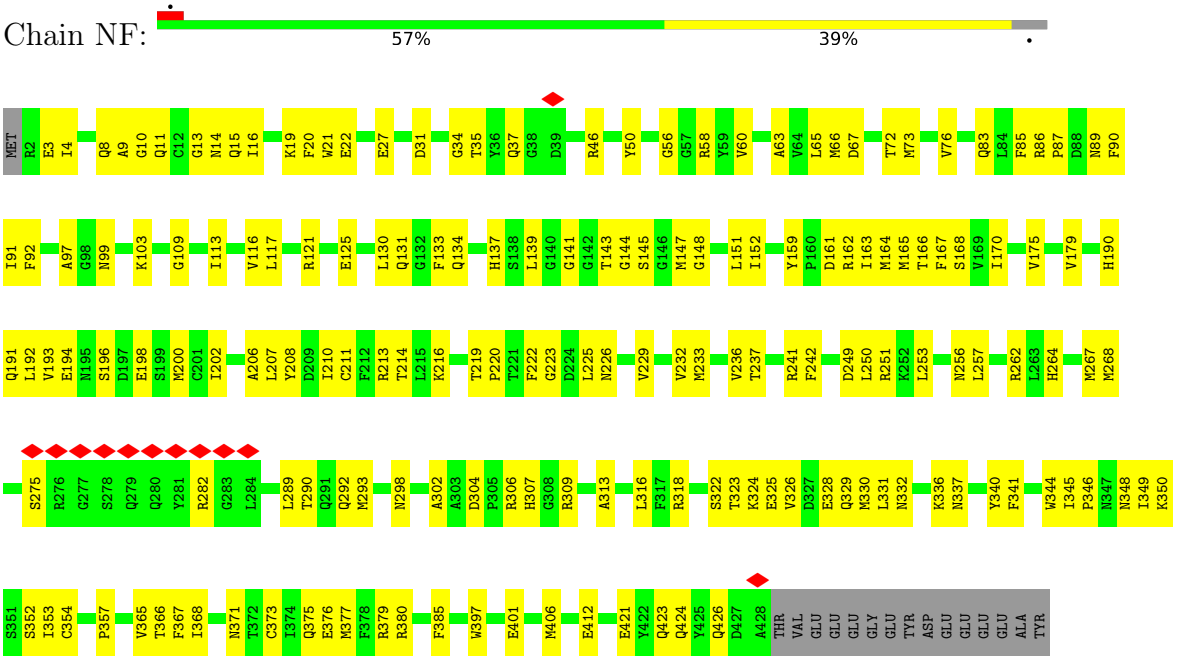
• Molecule 1: Tubulin beta chain

Chain ND:



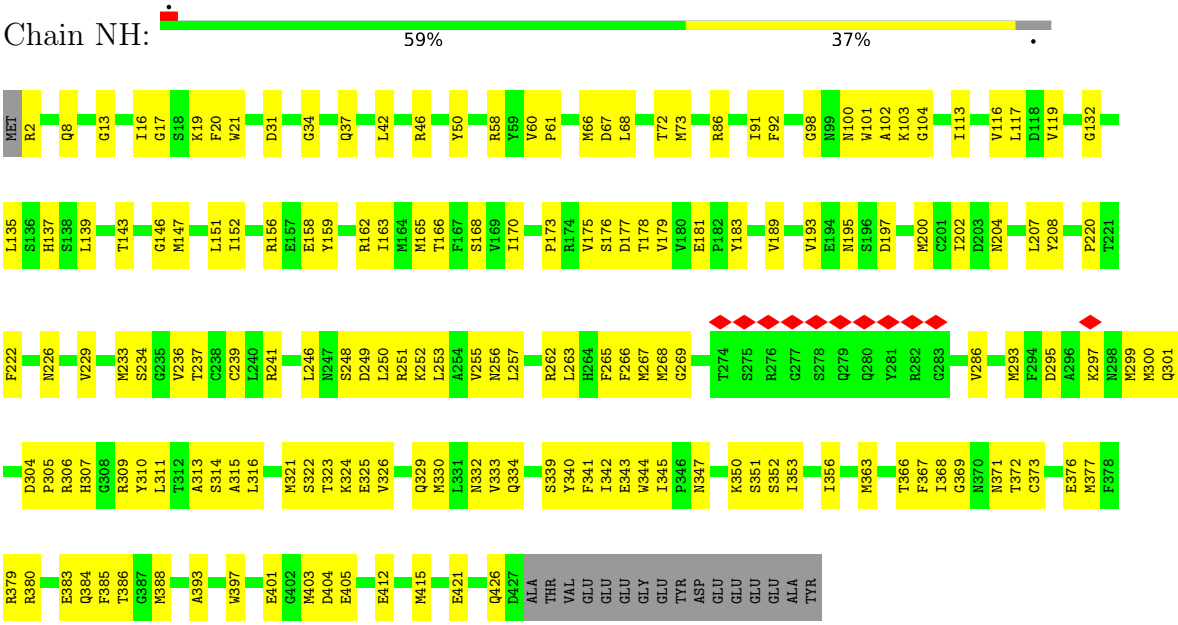
• Molecule 1: Tubulin beta chain

Chain NF:



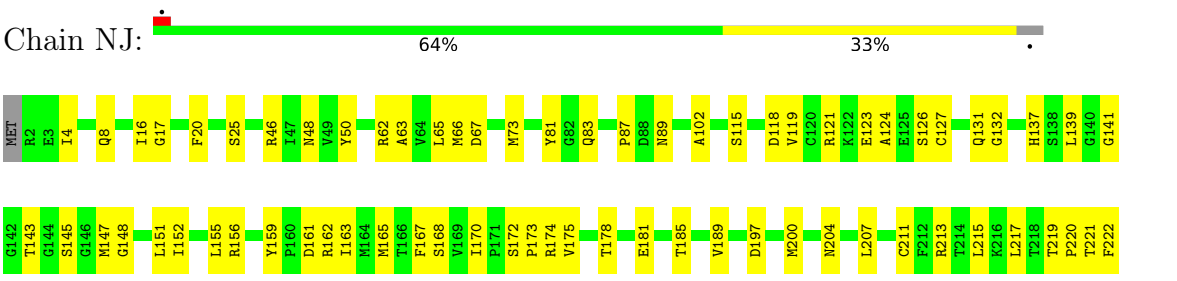
• Molecule 1: Tubulin beta chain

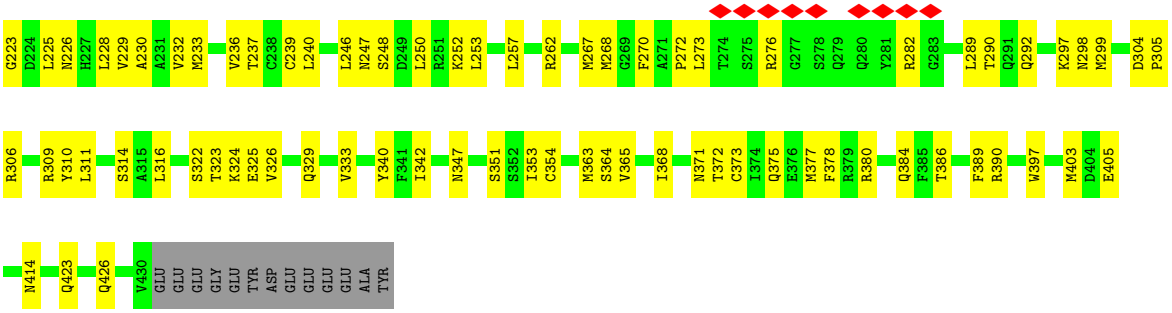
Chain NH:



• Molecule 1: Tubulin beta chain

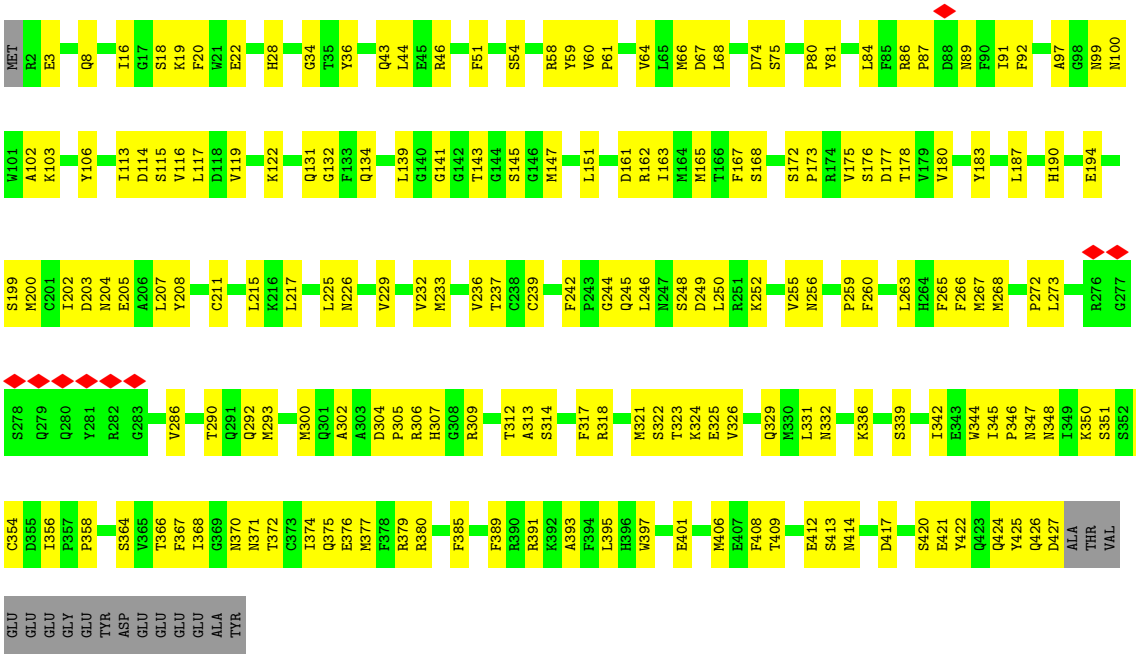
Chain NJ:





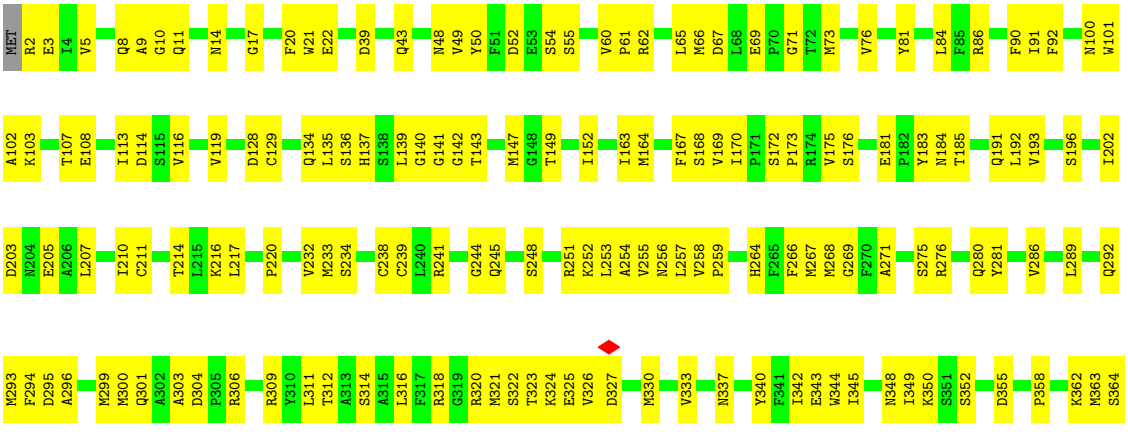
• Molecule 1: Tubulin beta chain

Chain NL:



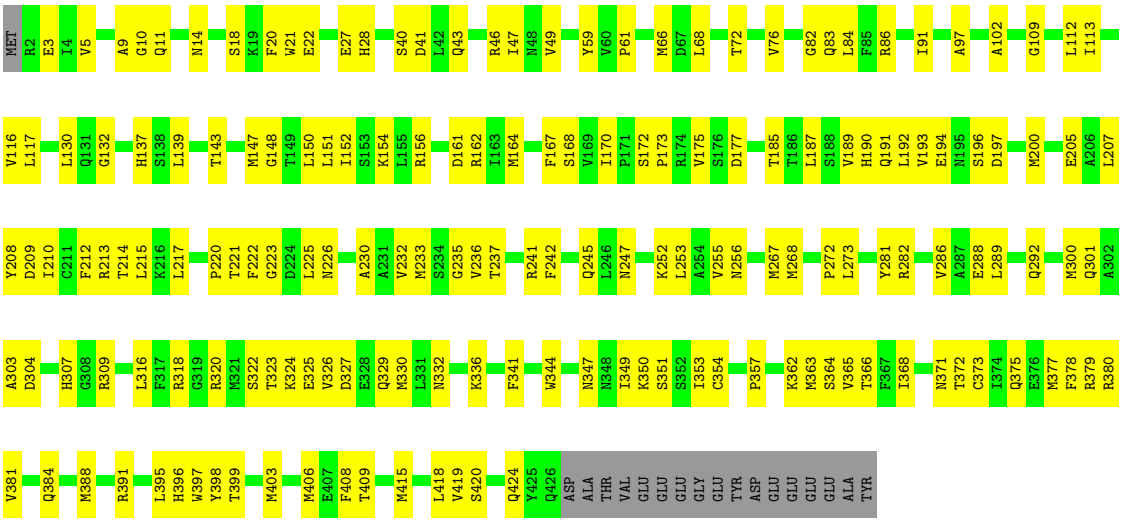
• Molecule 1: Tubulin beta chain

Chain O:



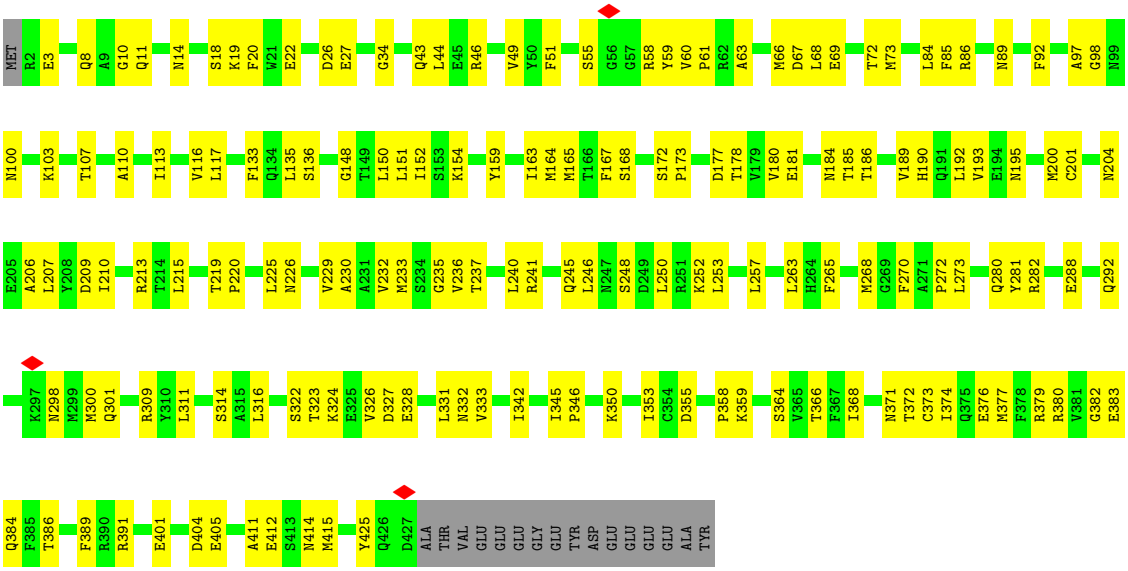
• Molecule 1: Tubulin beta chain

Chain OB:



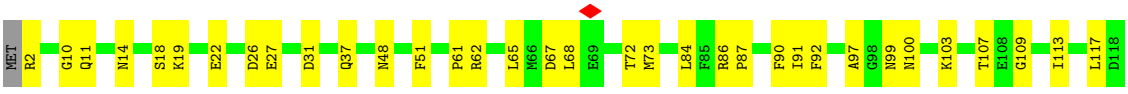
• Molecule 1: Tubulin beta chain

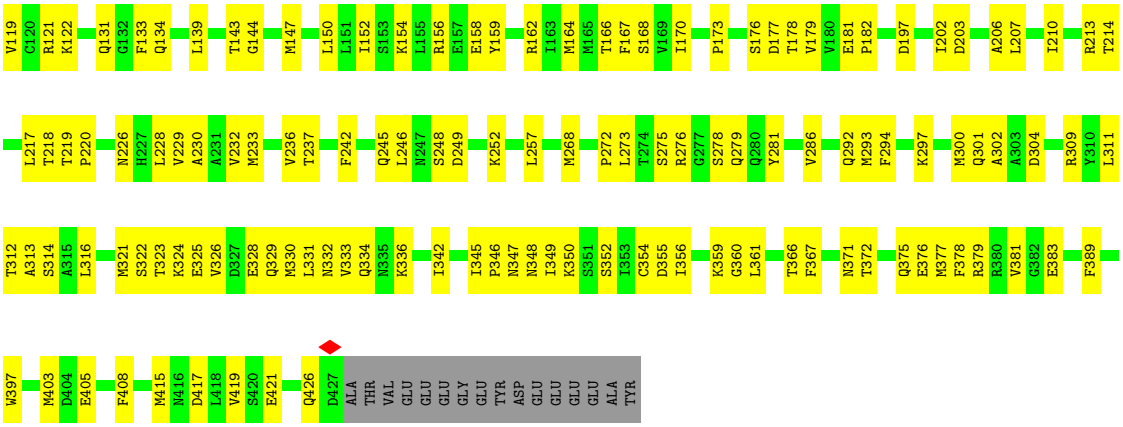
Chain OD:



• Molecule 1: Tubulin beta chain

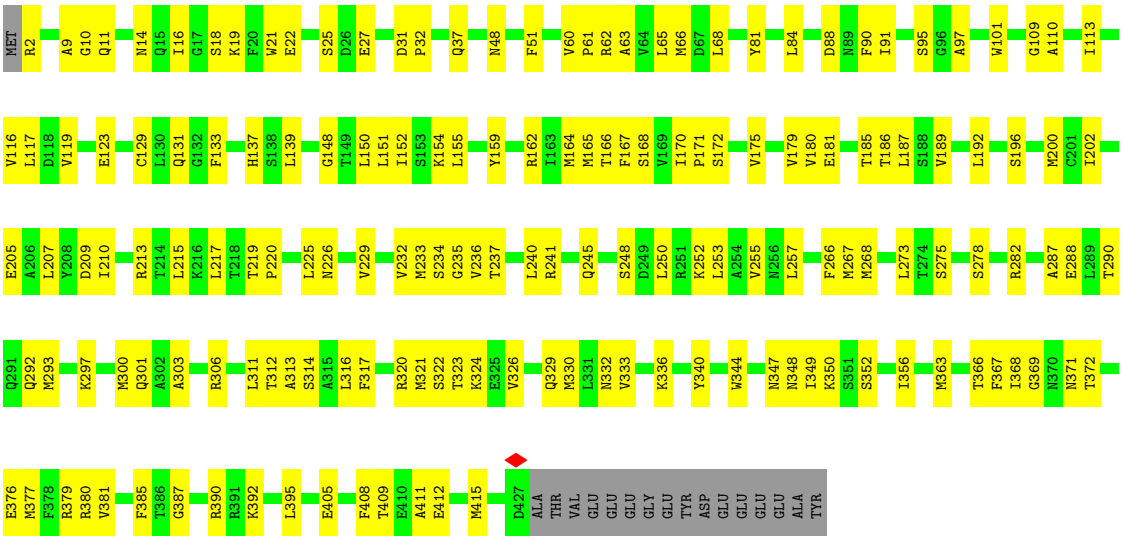
Chain OF:





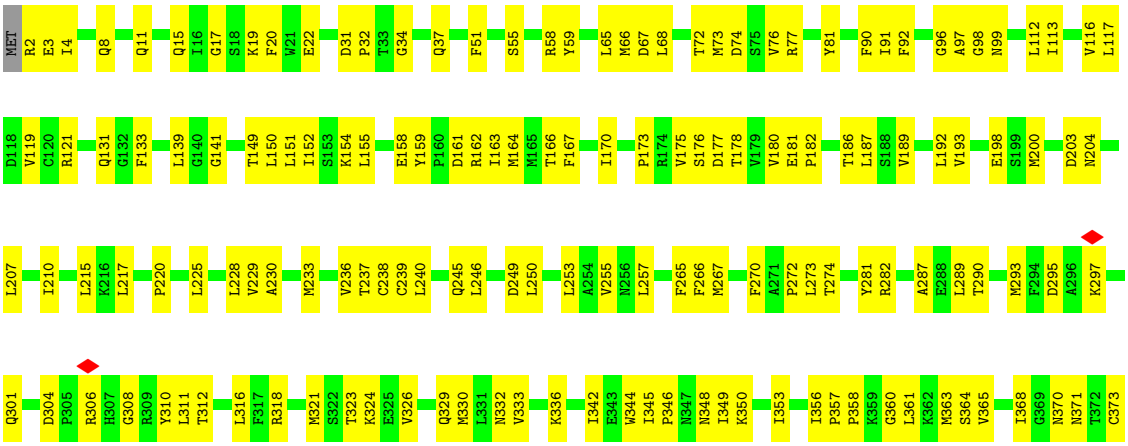
• Molecule 1: Tubulin beta chain

Chain OH:



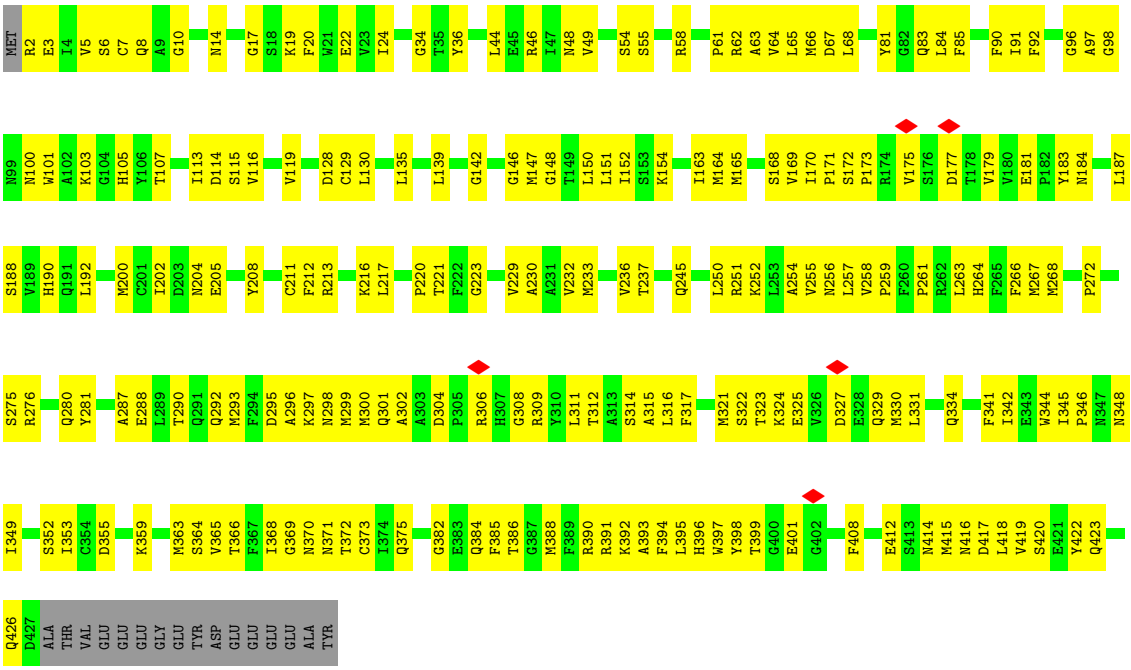
• Molecule 1: Tubulin beta chain

Chain OJ:



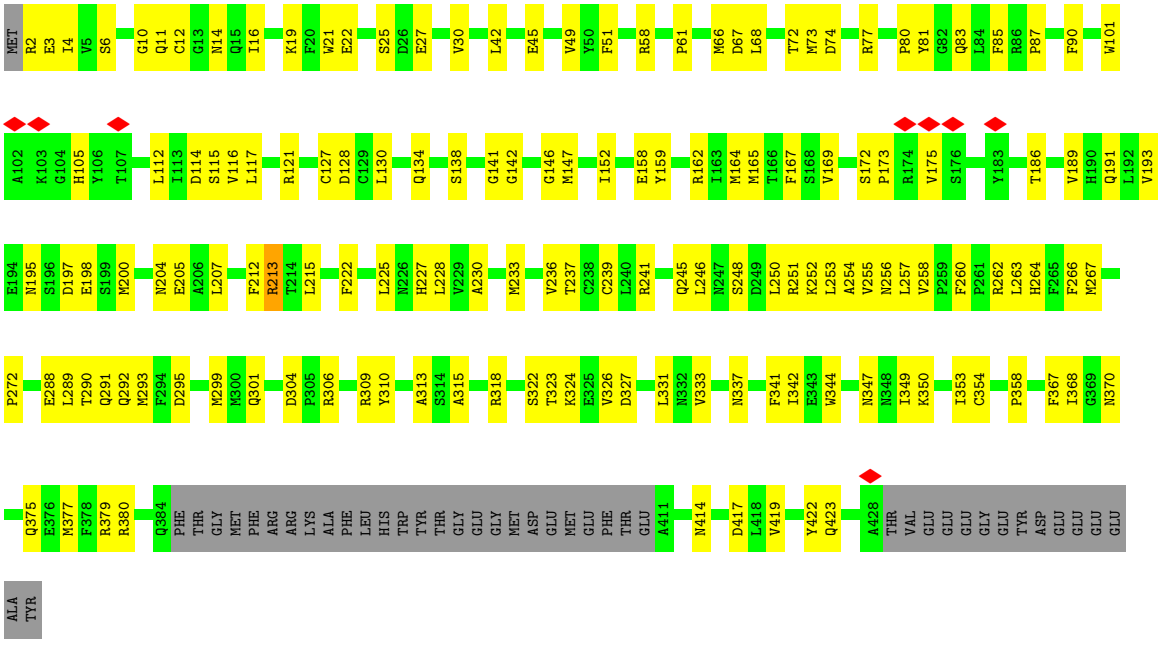
• Molecule 1: Tubulin beta chain

Chain OL:



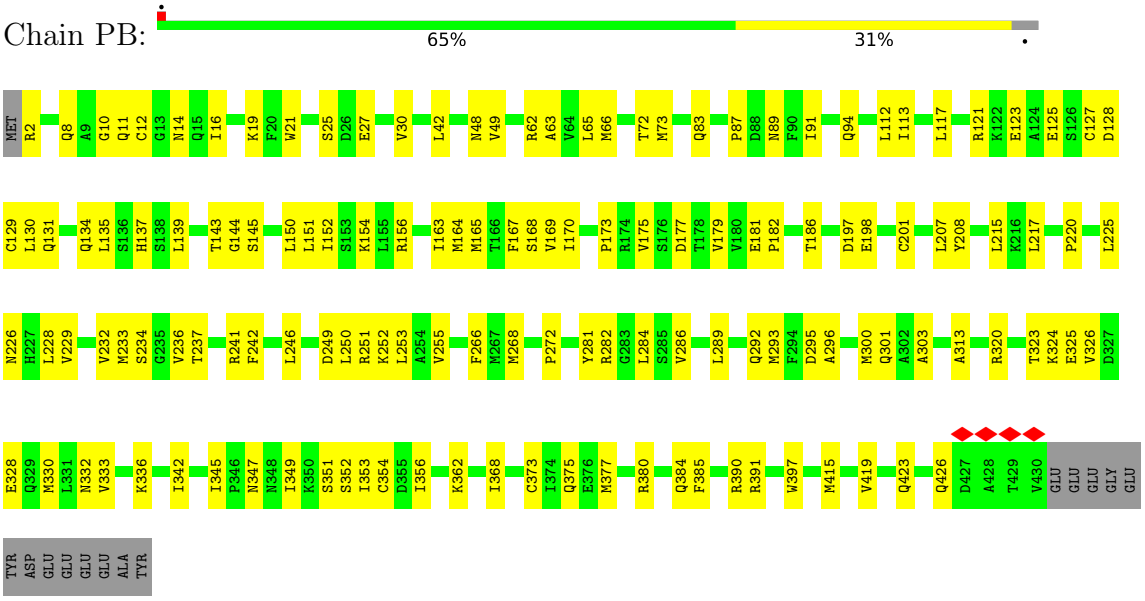
• Molecule 1: Tubulin beta chain

Chain P:



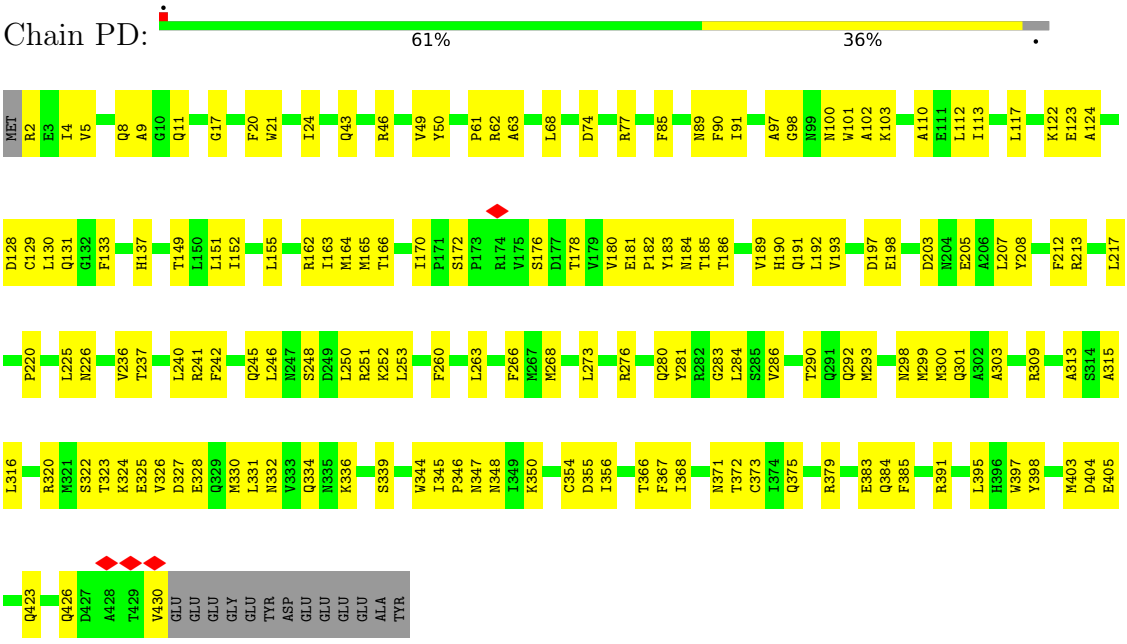
• Molecule 1: Tubulin beta chain

Chain PB:



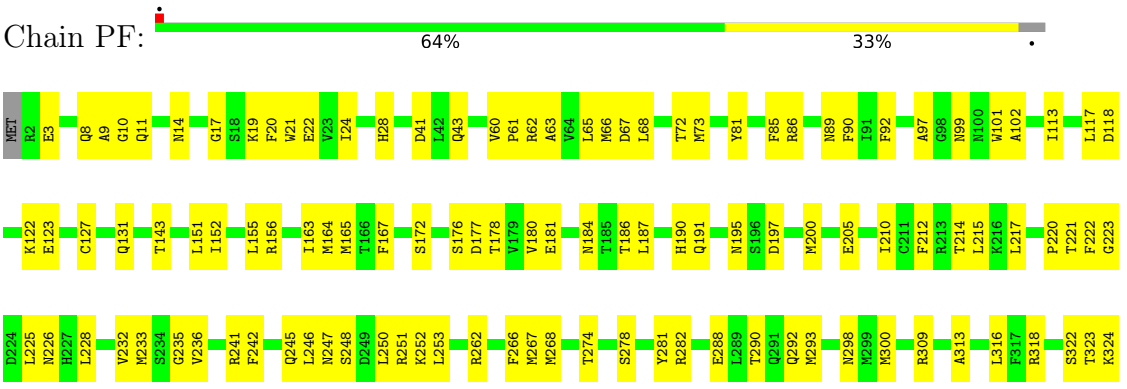
• Molecule 1: Tubulin beta chain

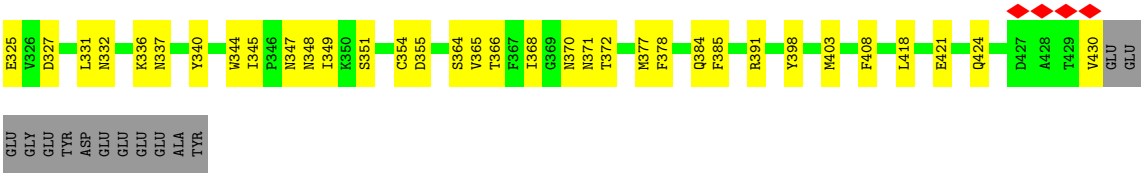
Chain PD:



• Molecule 1: Tubulin beta chain

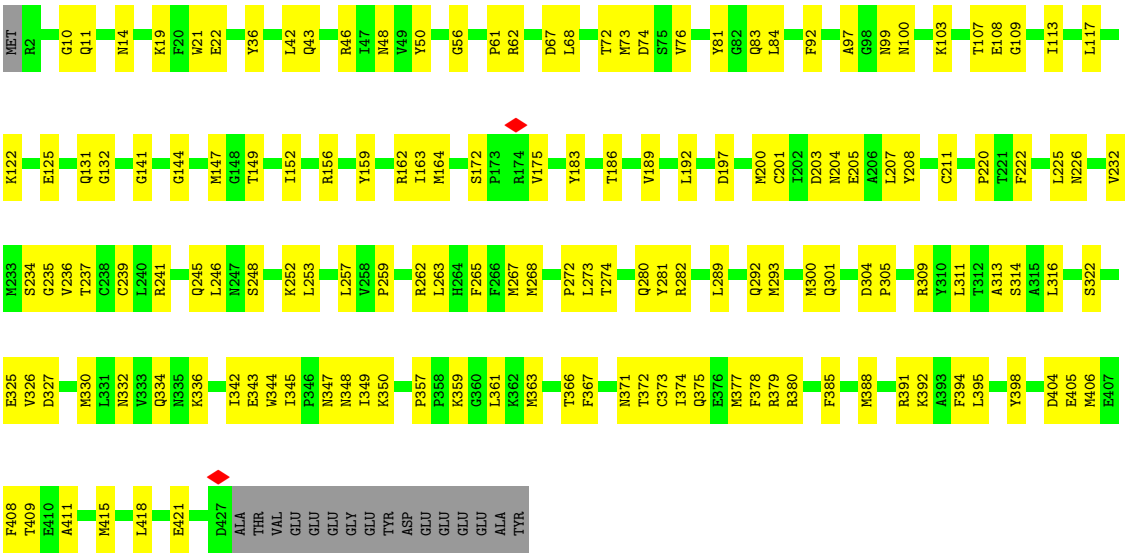
Chain PF:





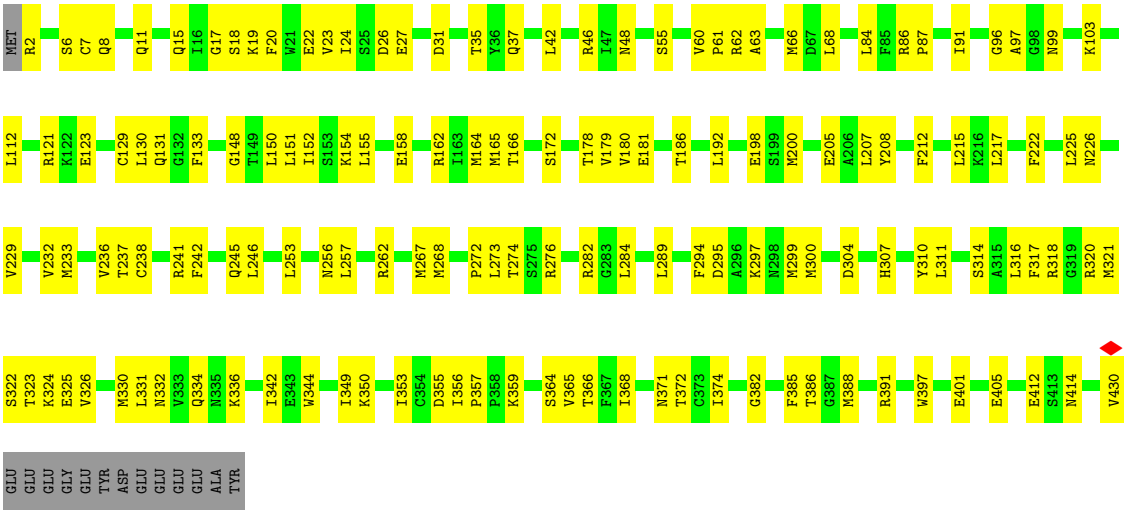
• Molecule 1: Tubulin beta chain

Chain PH:



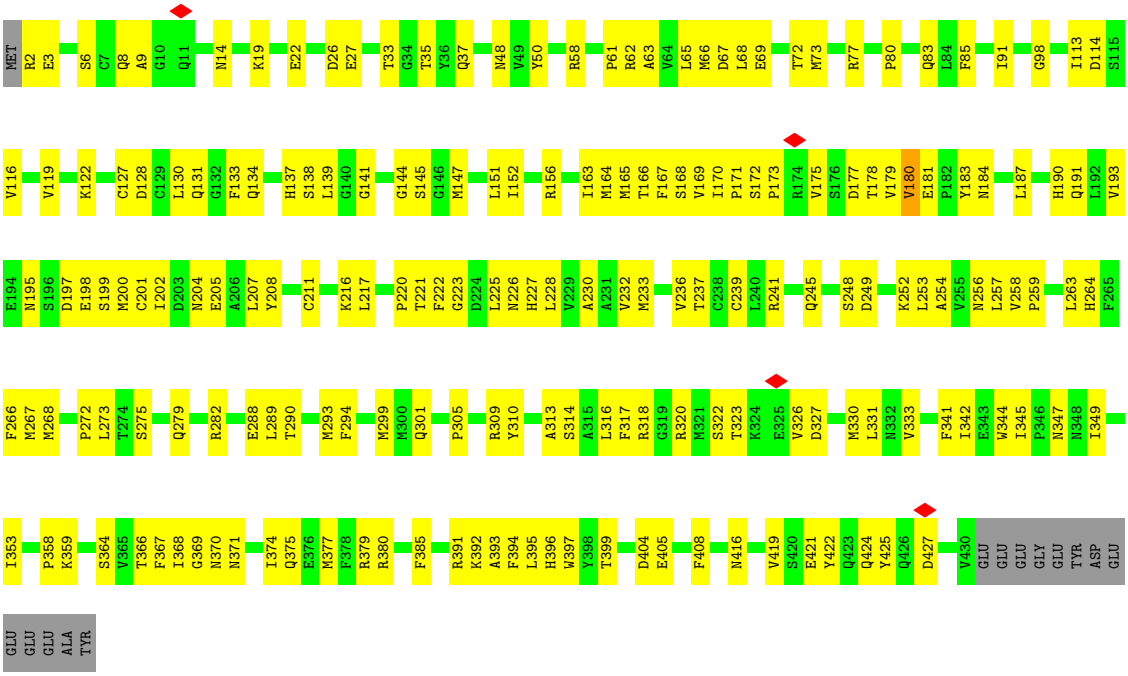
• Molecule 1: Tubulin beta chain

Chain PJ:



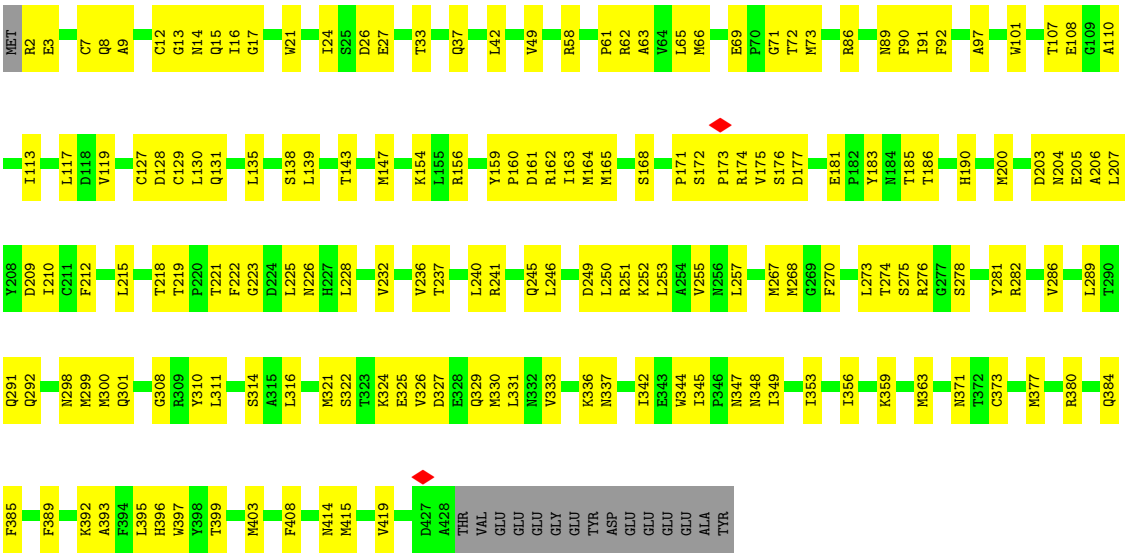
• Molecule 1: Tubulin beta chain

Chain PL:



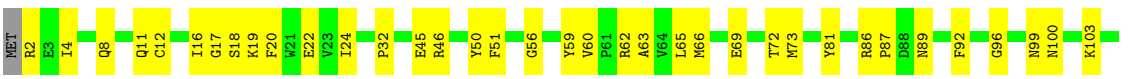
• Molecule 1: Tubulin beta chain

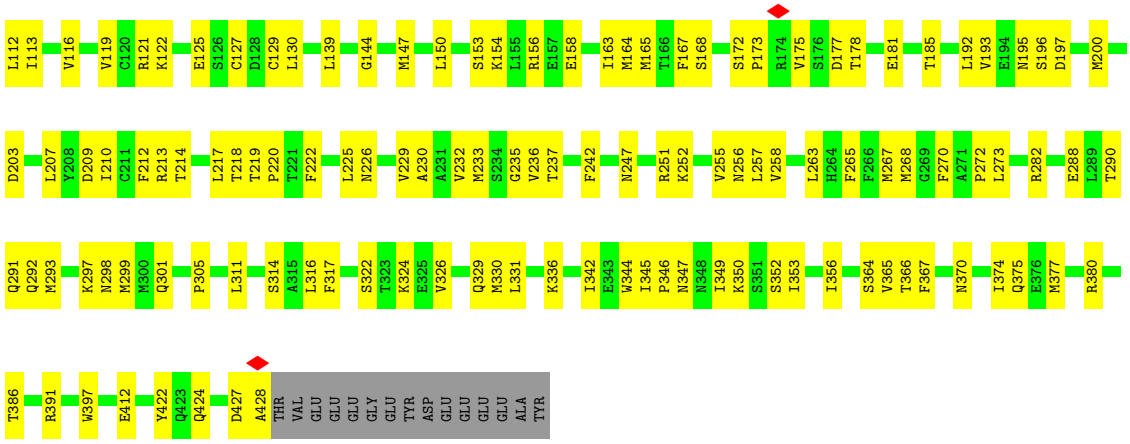
Chain QA:



• Molecule 1: Tubulin beta chain

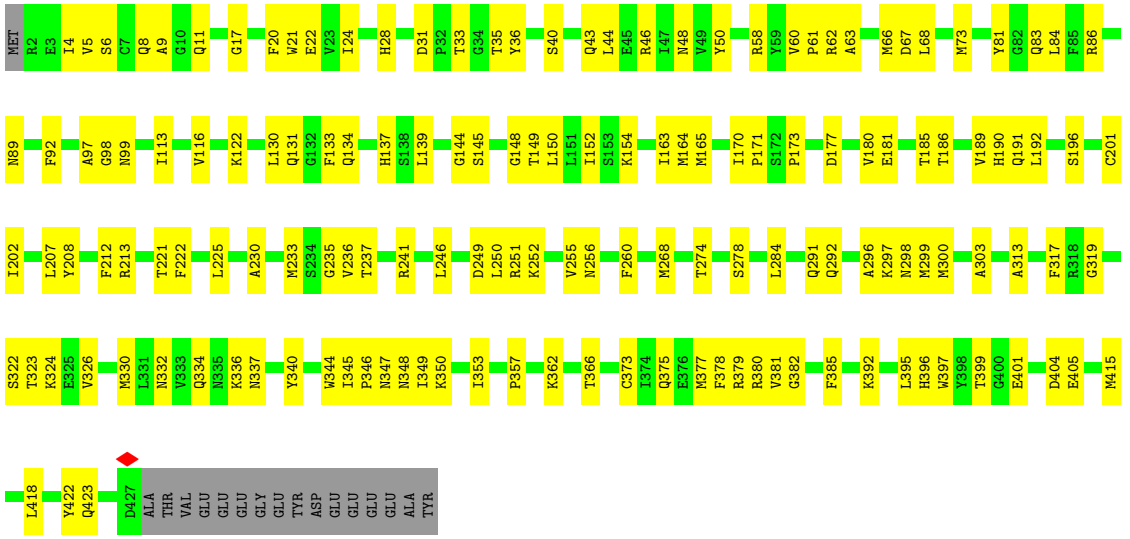
Chain QC:





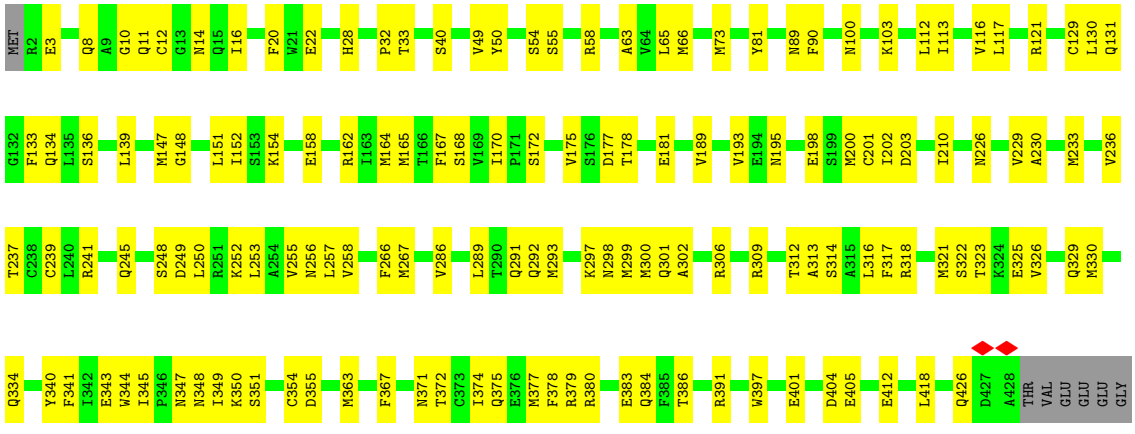
• Molecule 1: Tubulin beta chain

Chain QE:



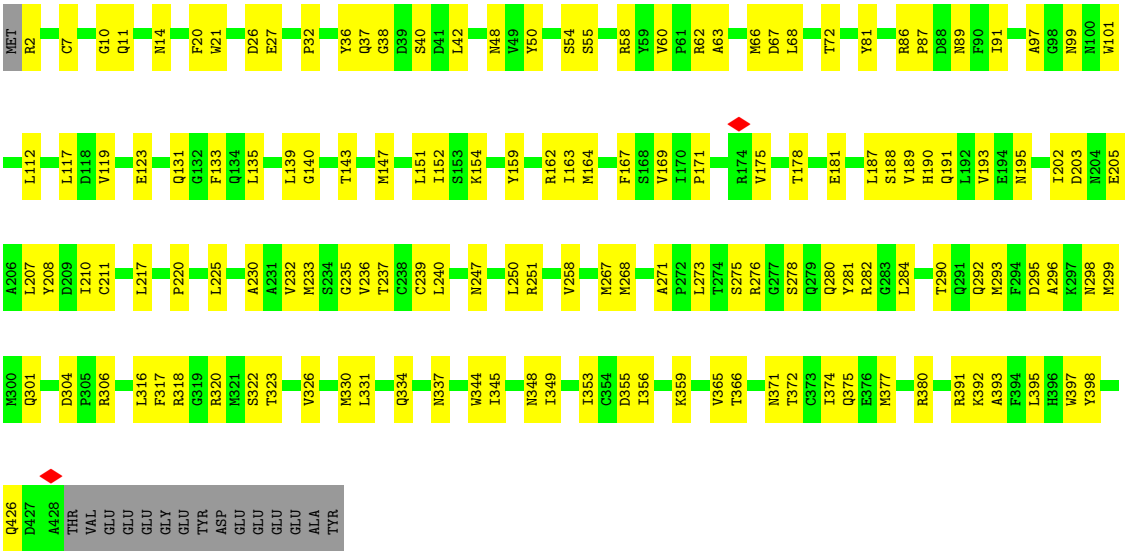
• Molecule 1: Tubulin beta chain

Chain QG:



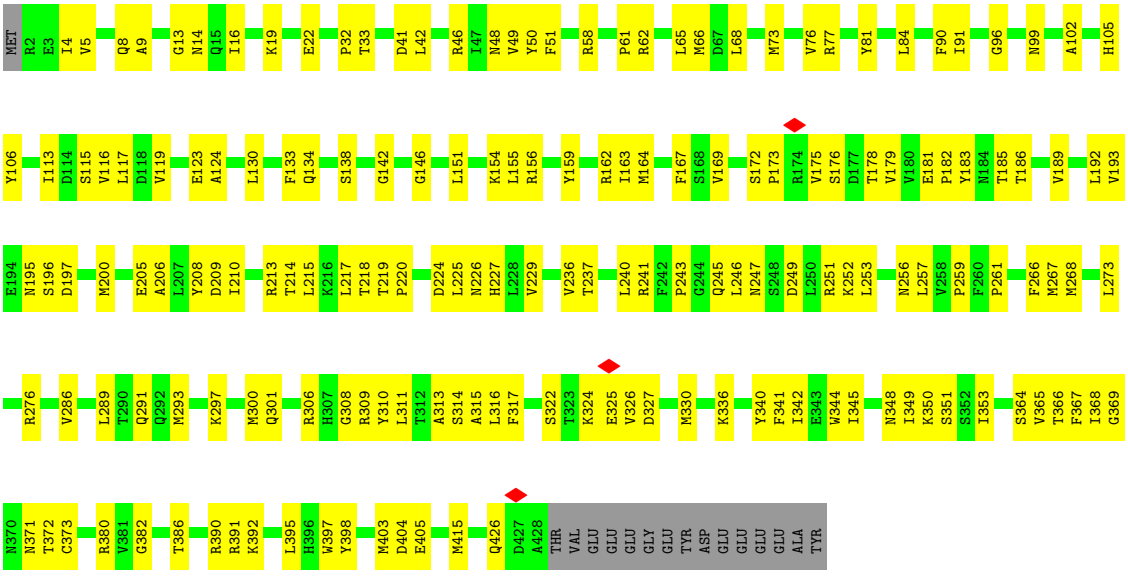
• Molecule 1: Tubulin beta chain

Chain QI:



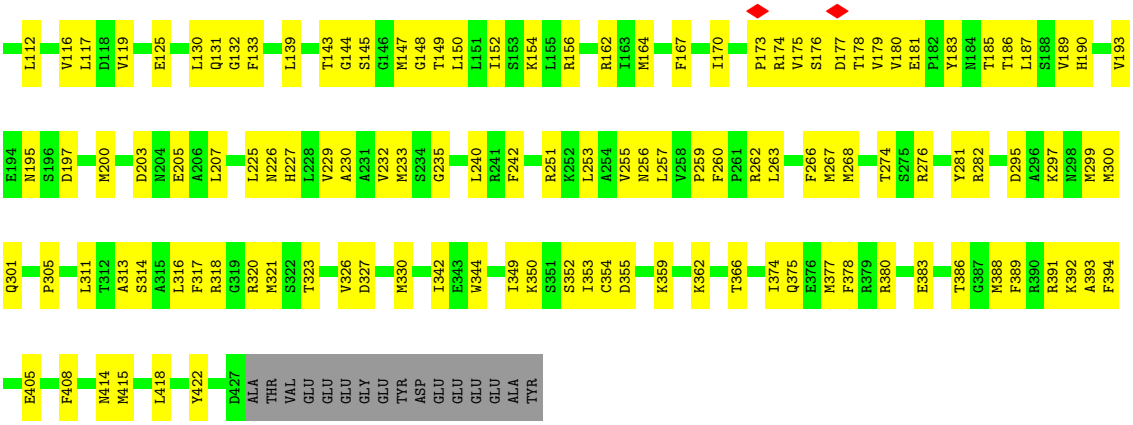
• Molecule 1: Tubulin beta chain

Chain QK:



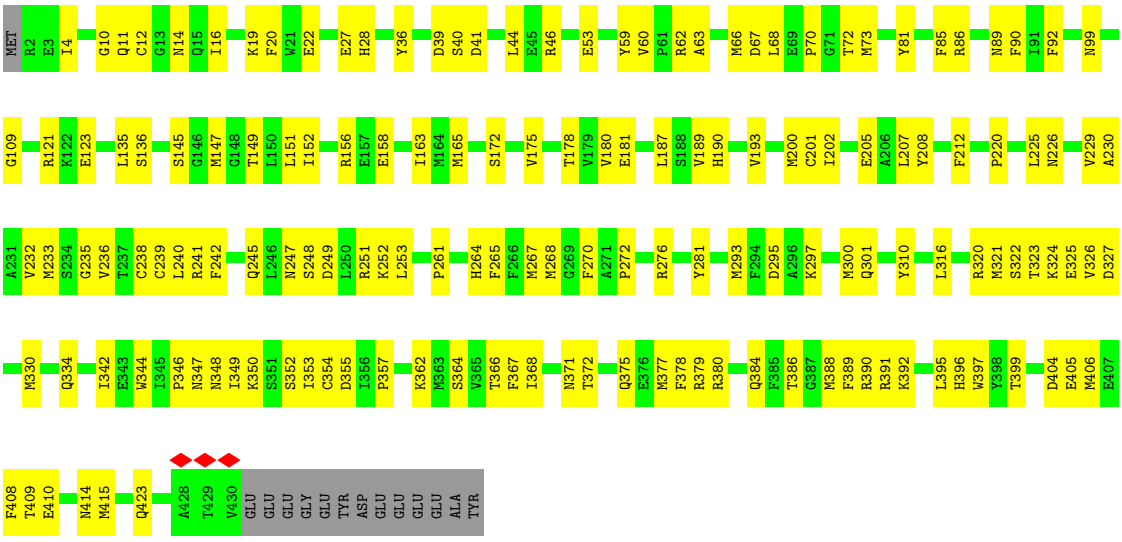
• Molecule 1: Tubulin beta chain

Chain RA:



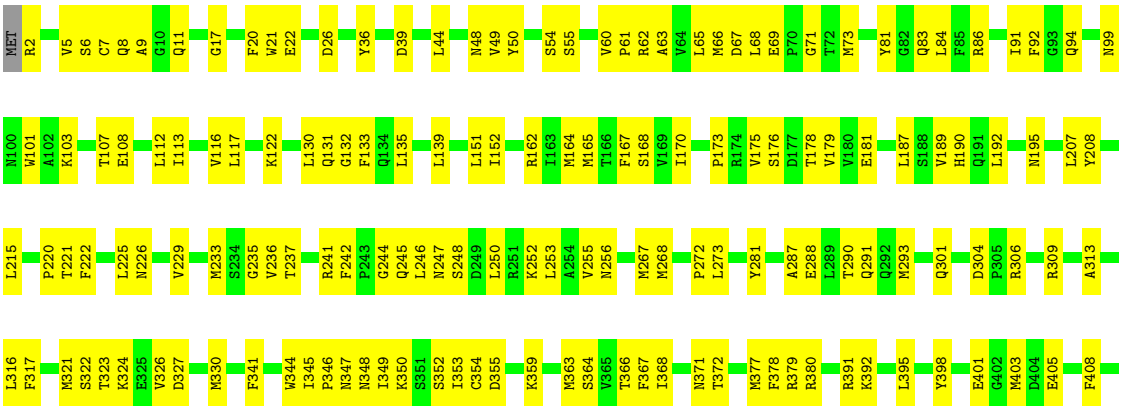
• Molecule 1: Tubulin beta chain

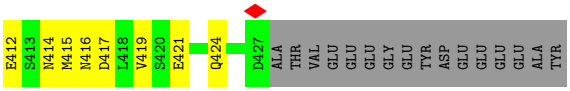
Chain RC:



• Molecule 1: Tubulin beta chain

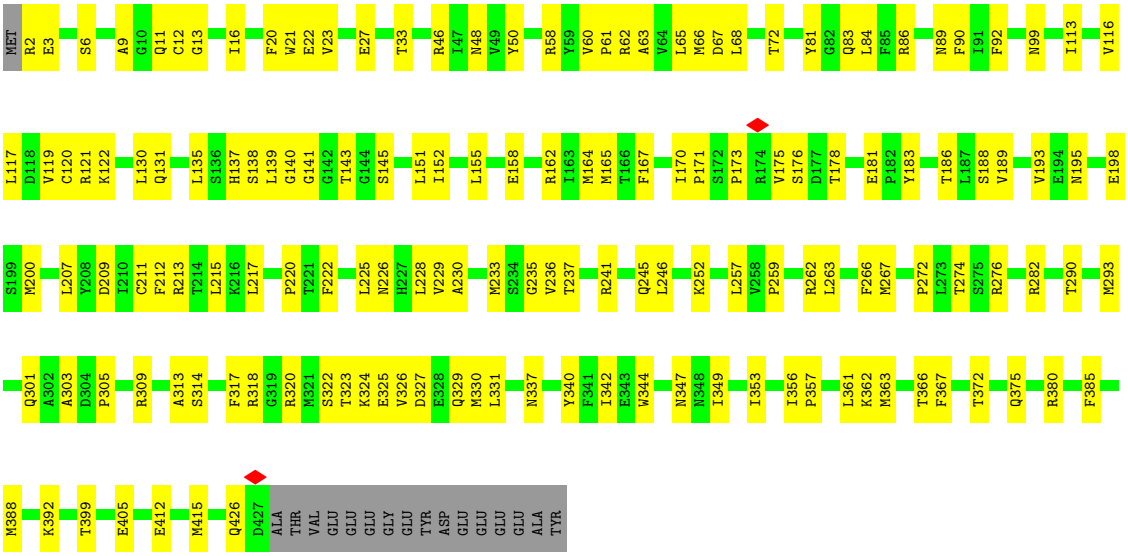
Chain RE:





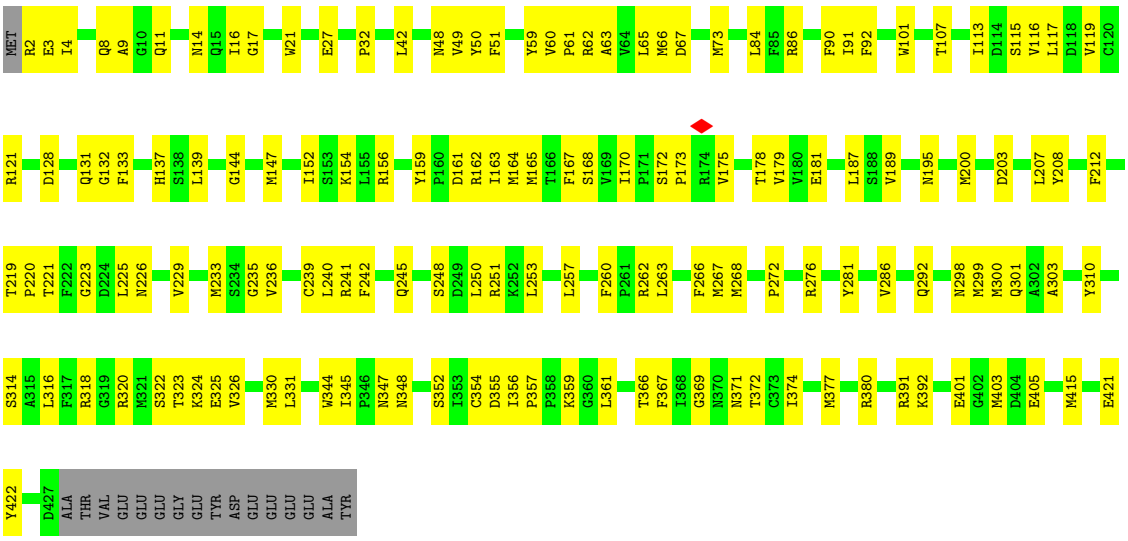
• Molecule 1: Tubulin beta chain

Chain RG:



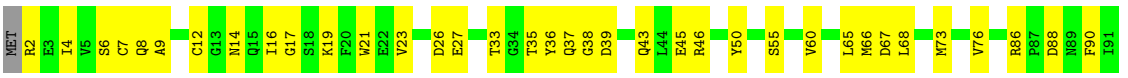
• Molecule 1: Tubulin beta chain

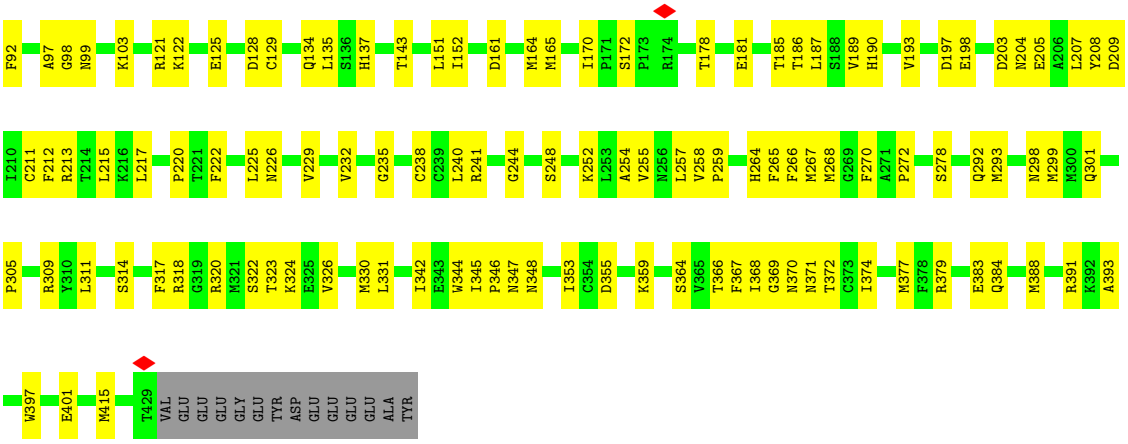
Chain RI:



• Molecule 1: Tubulin beta chain

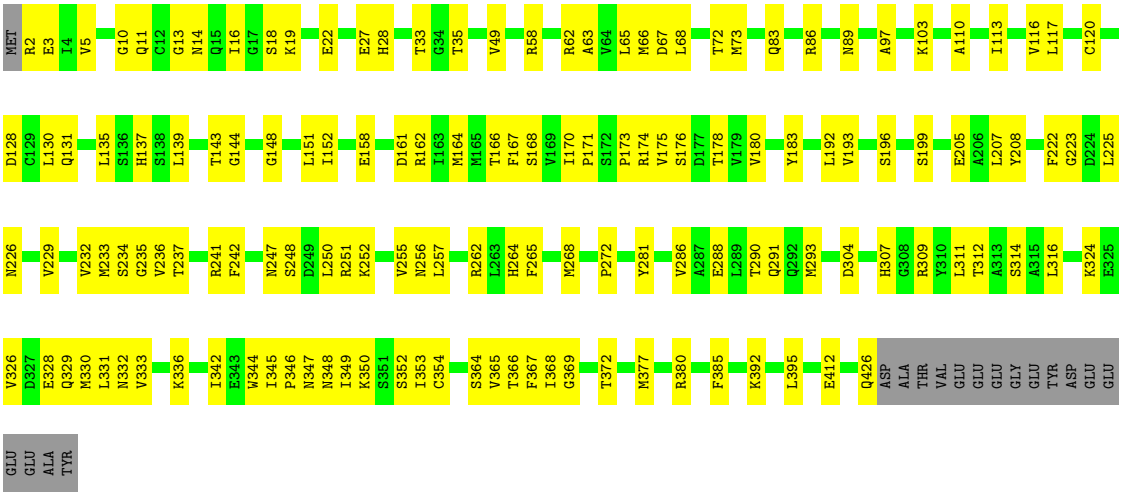
Chain RK:





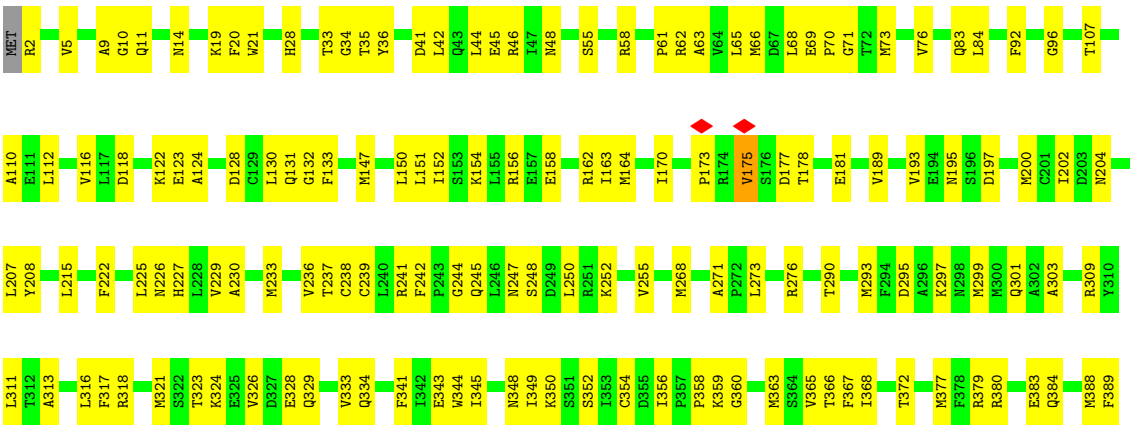
• Molecule 1: Tubulin beta chain

Chain S:



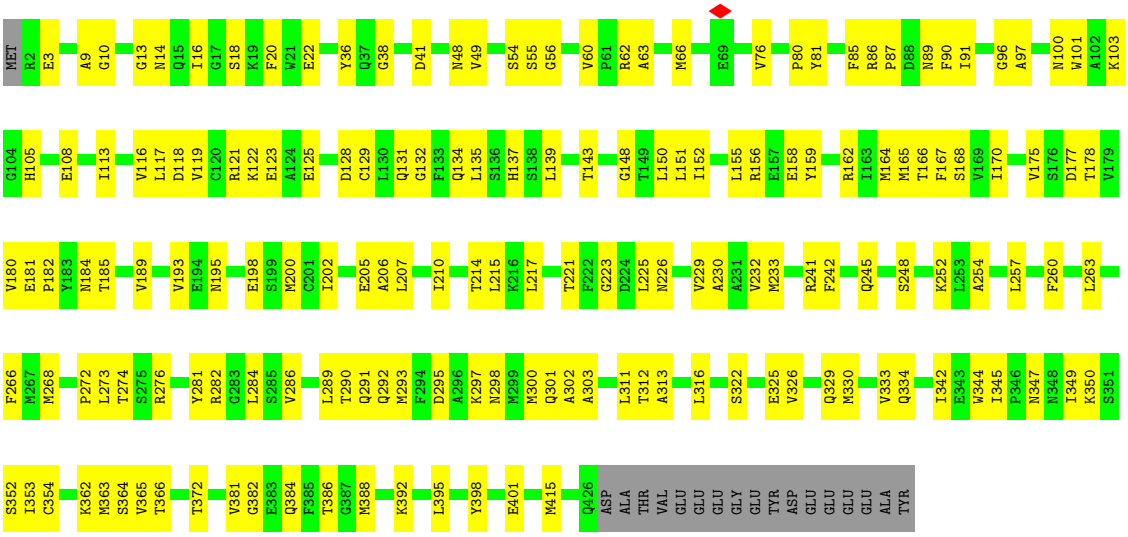
• Molecule 1: Tubulin beta chain

Chain SB:



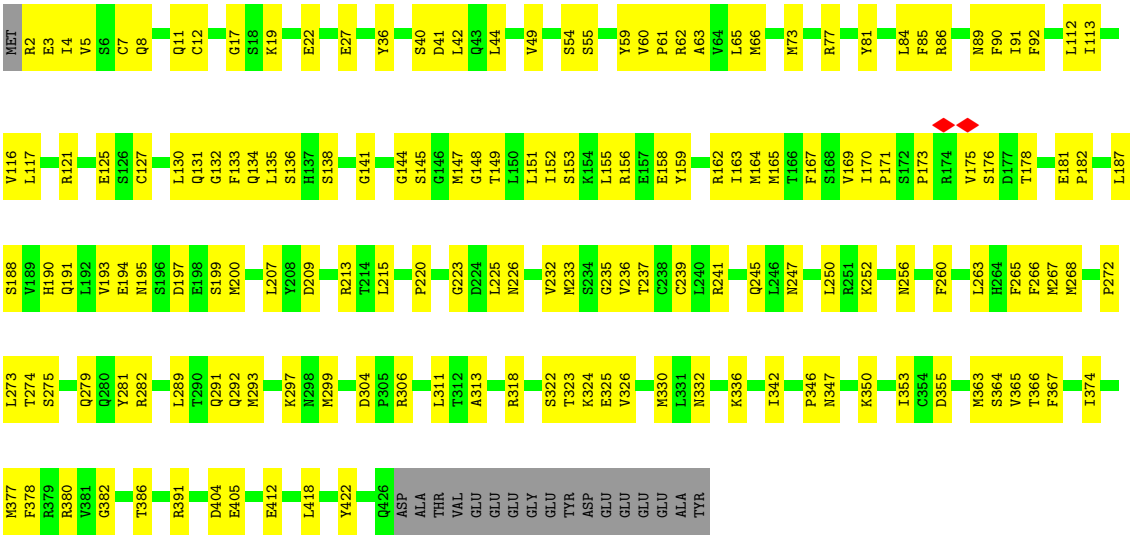
• Molecule 1: Tubulin beta chain

Chain SD:



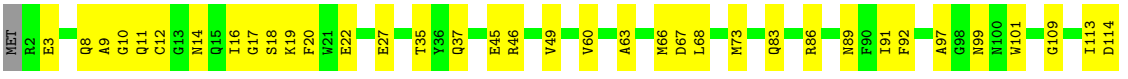
• Molecule 1: Tubulin beta chain

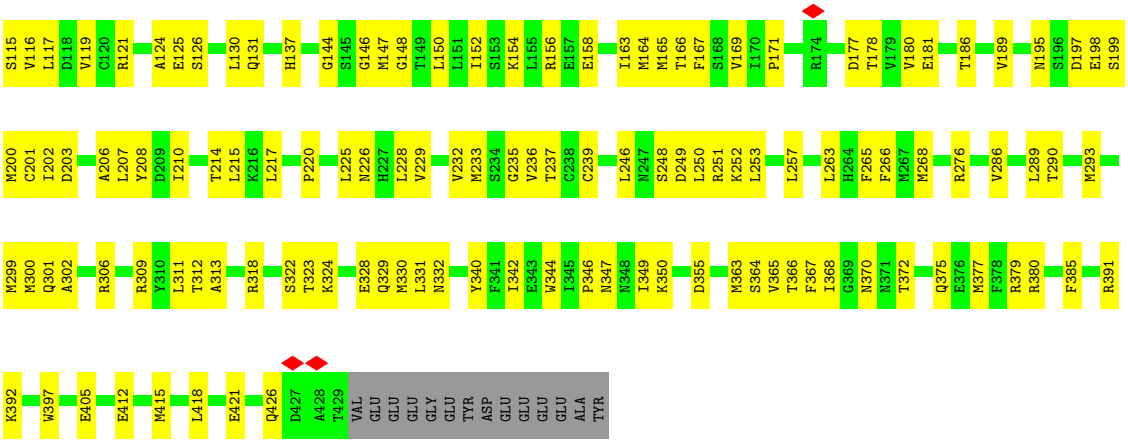
Chain SF:



• Molecule 1: Tubulin beta chain

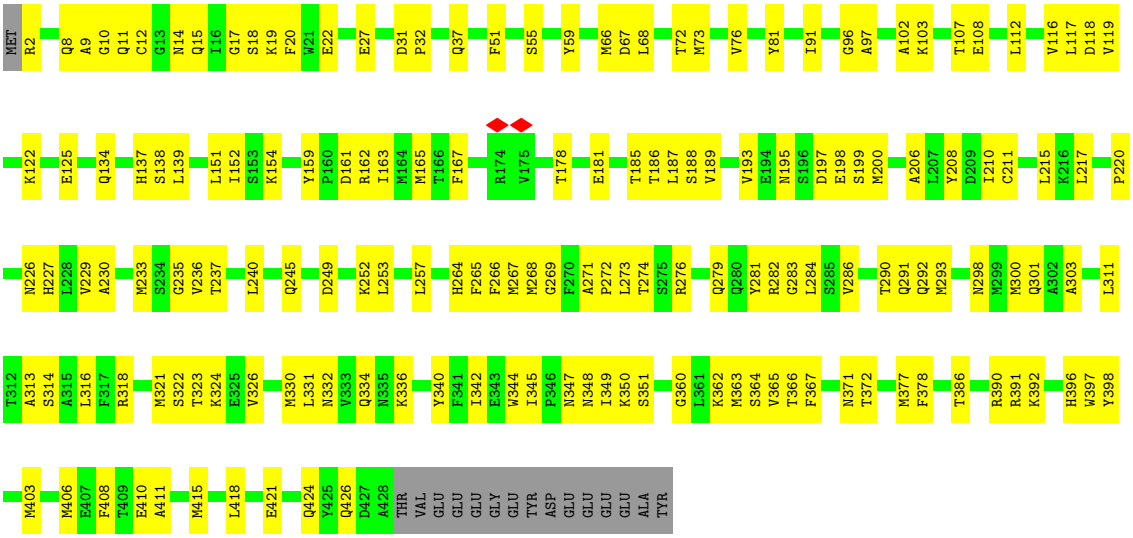
Chain SH:





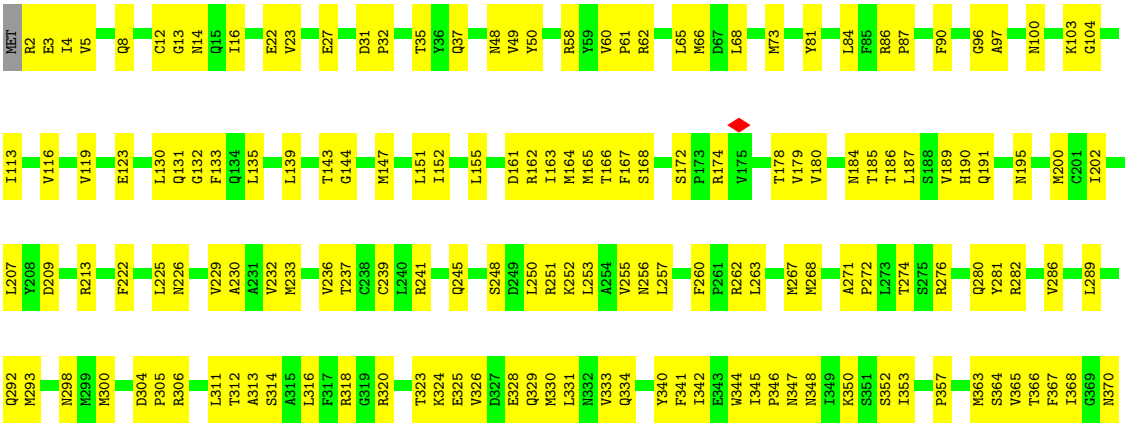
• Molecule 1: Tubulin beta chain

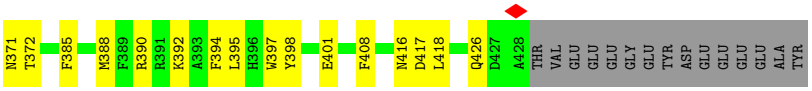
Chain SJ:



• Molecule 1: Tubulin beta chain

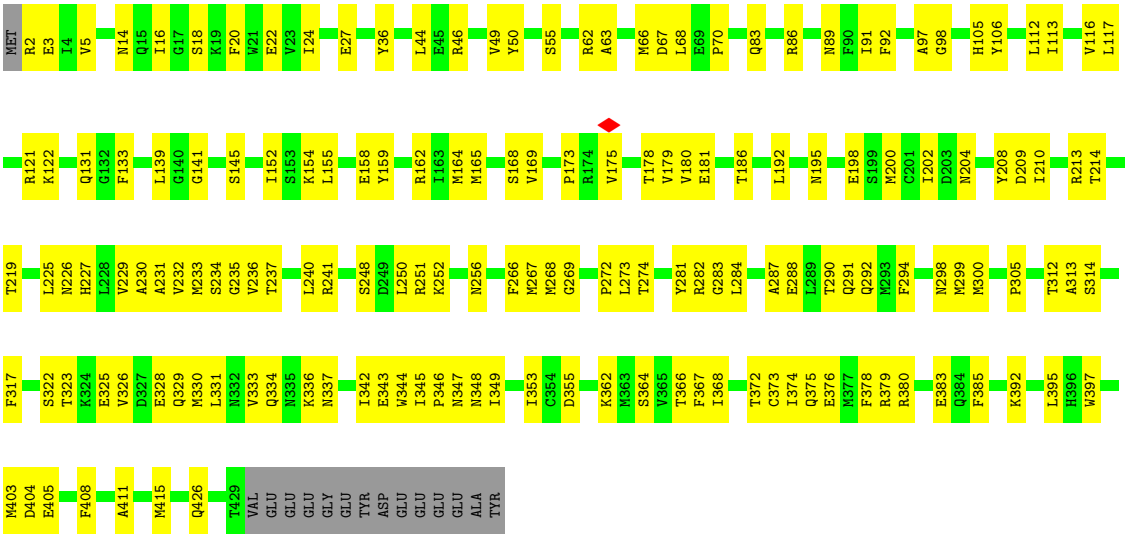
Chain T:





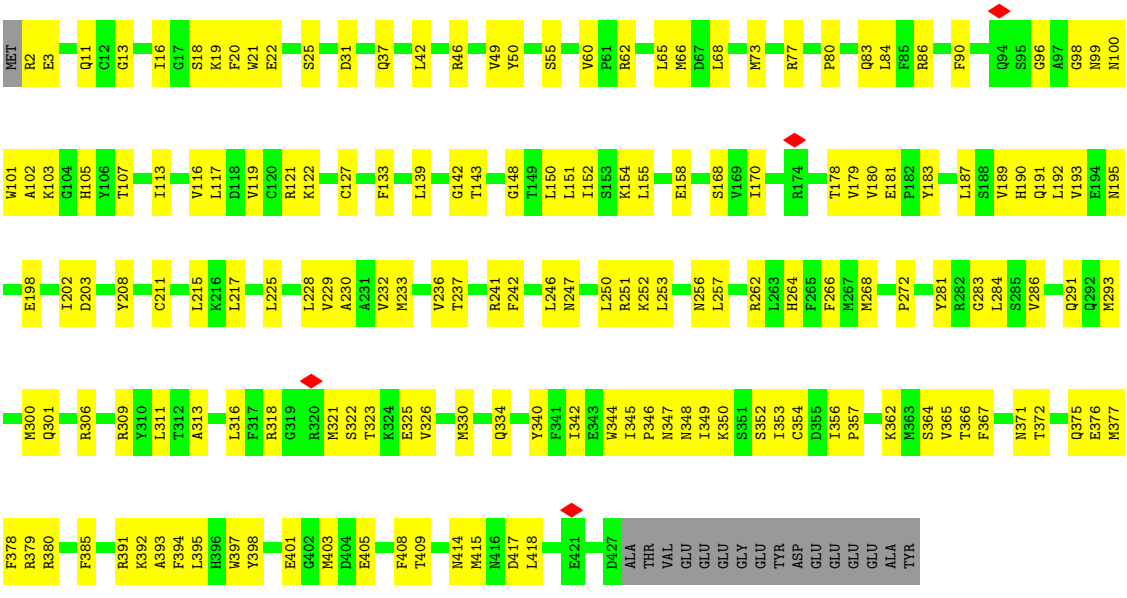
• Molecule 1: Tubulin beta chain

Chain TB:



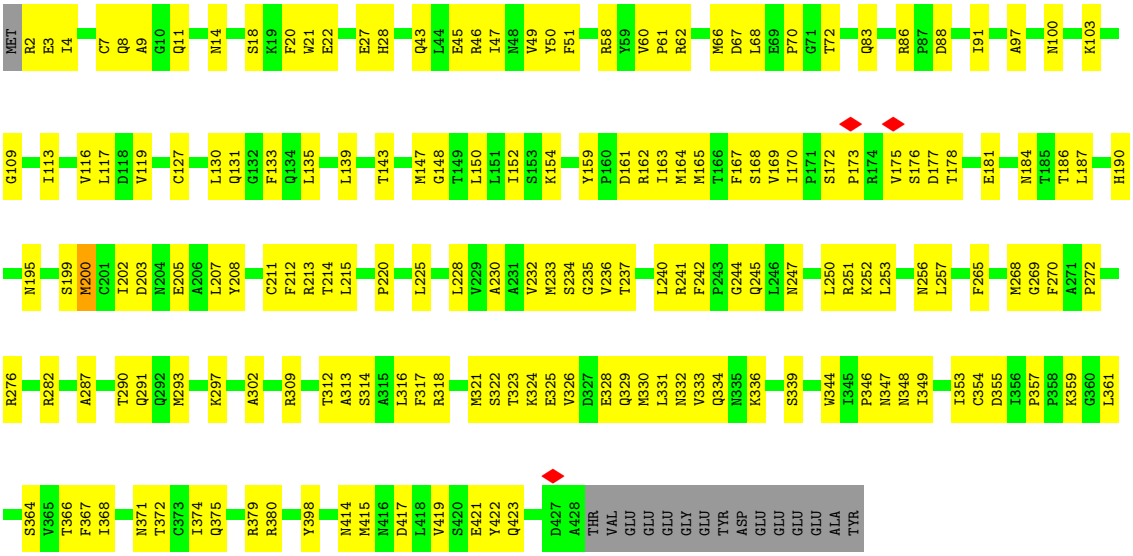
• Molecule 1: Tubulin beta chain

Chain TD:



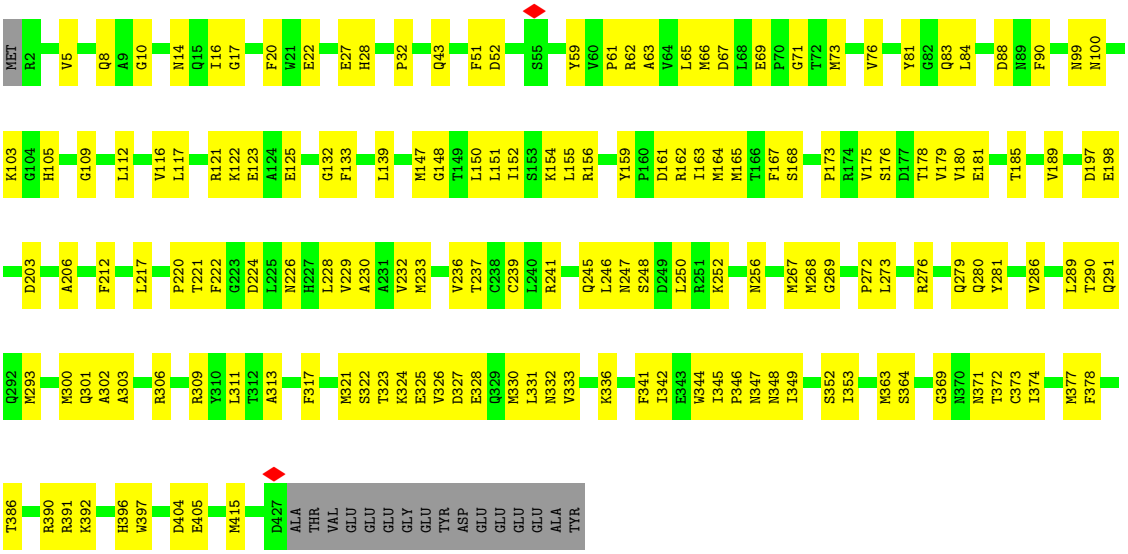
• Molecule 1: Tubulin beta chain

Chain TF:



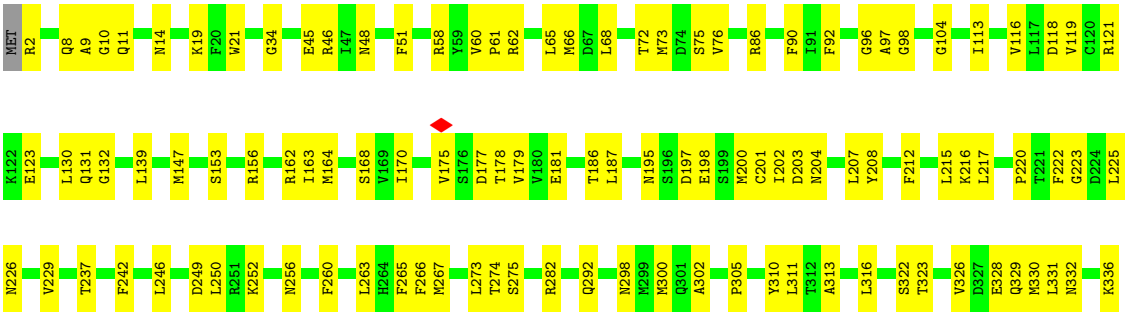
• Molecule 1: Tubulin beta chain

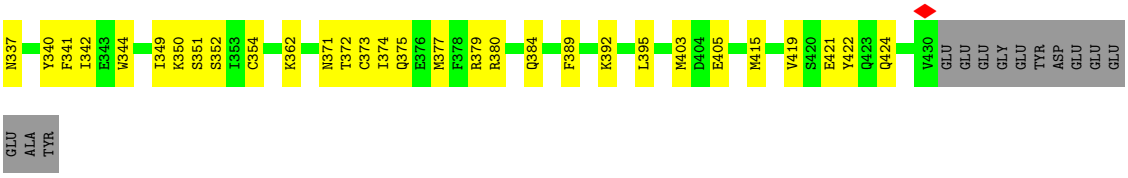
Chain TH:



• Molecule 1: Tubulin beta chain

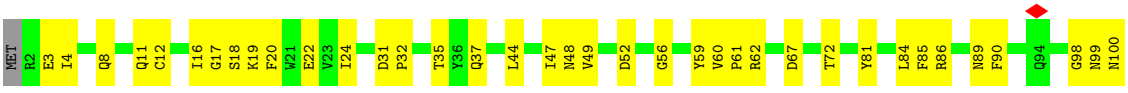
Chain TJ:

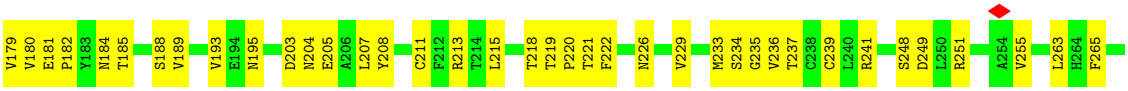


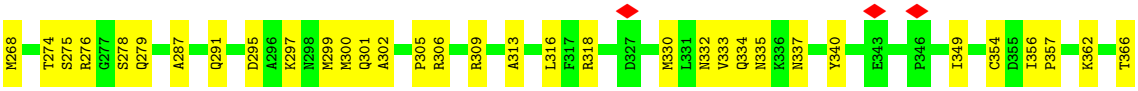


• Molecule 1: Tubulin beta chain

Chain TL:

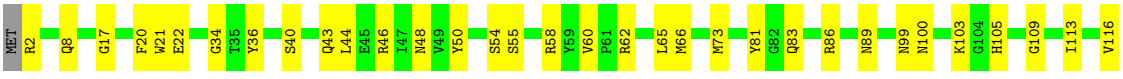


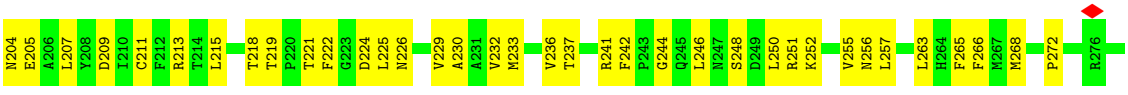


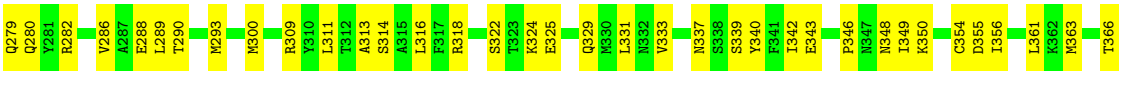


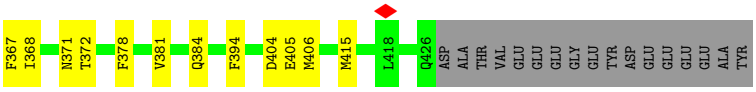
• Molecule 1: Tubulin beta chain

Chain U:



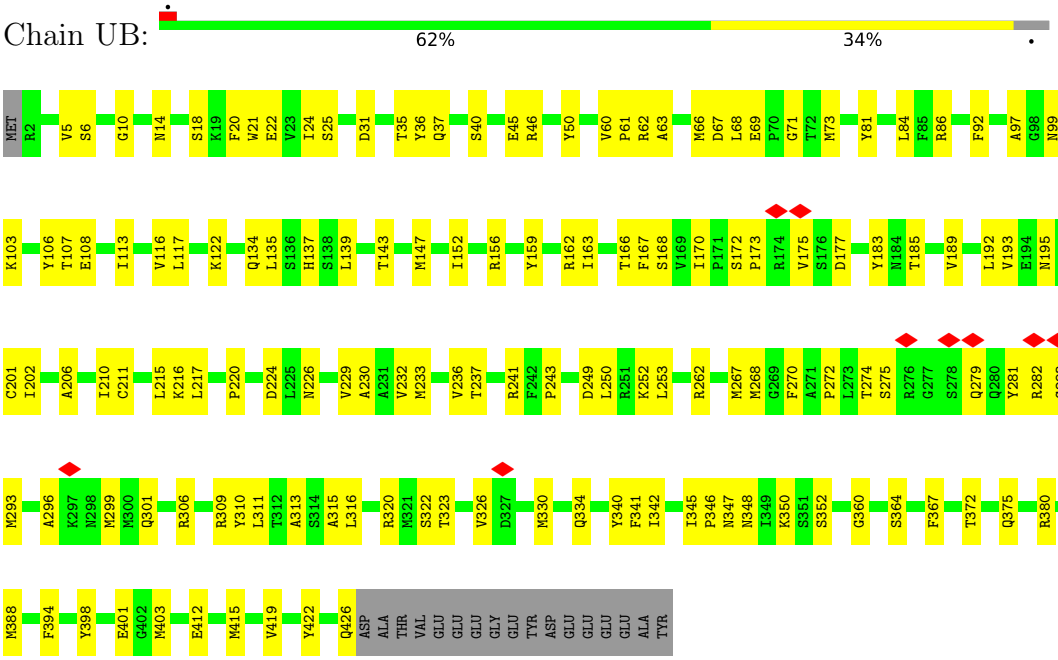






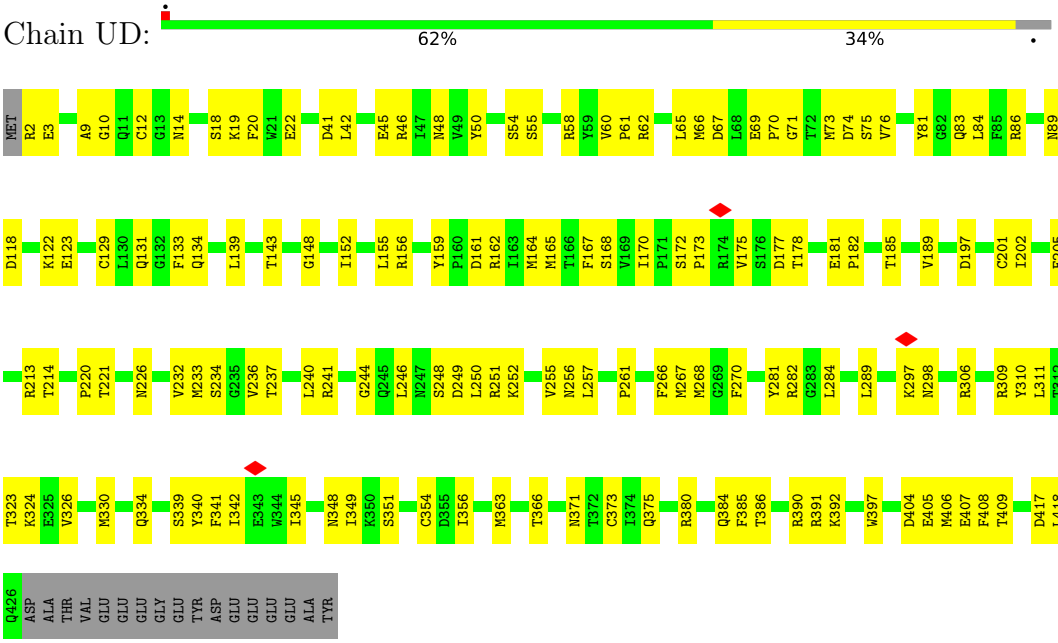
• Molecule 1: Tubulin beta chain

Chain UB:



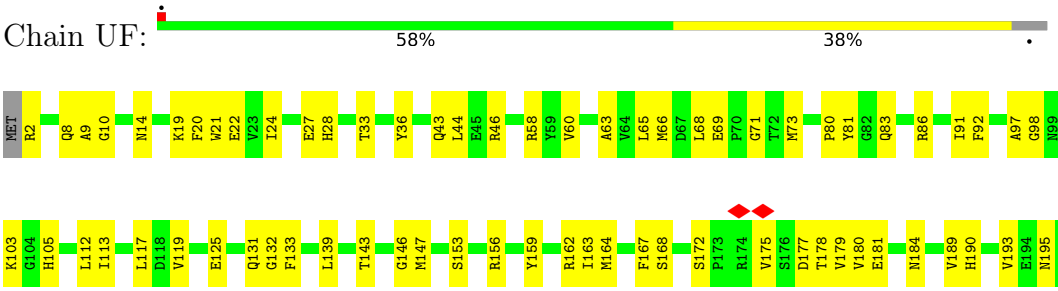
• Molecule 1: Tubulin beta chain

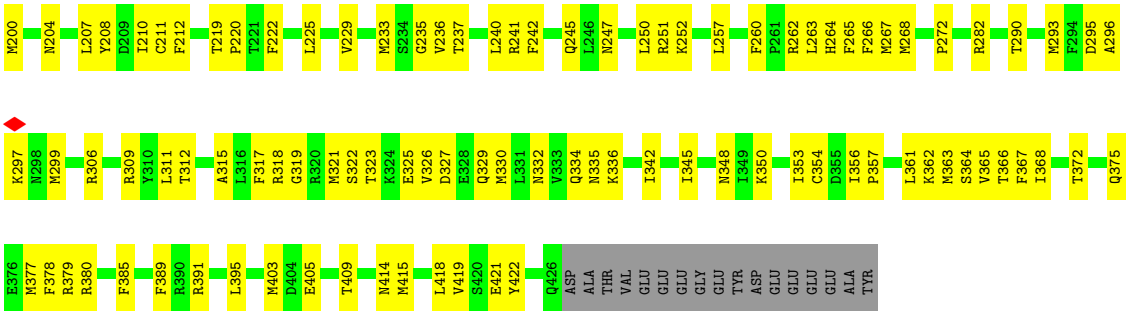
Chain UD:



• Molecule 1: Tubulin beta chain

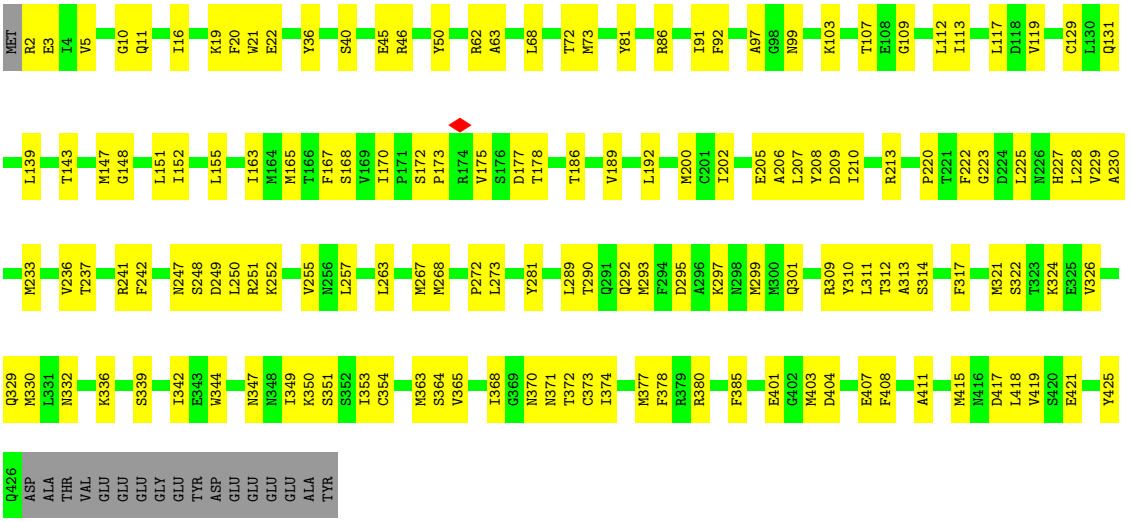
Chain UF:





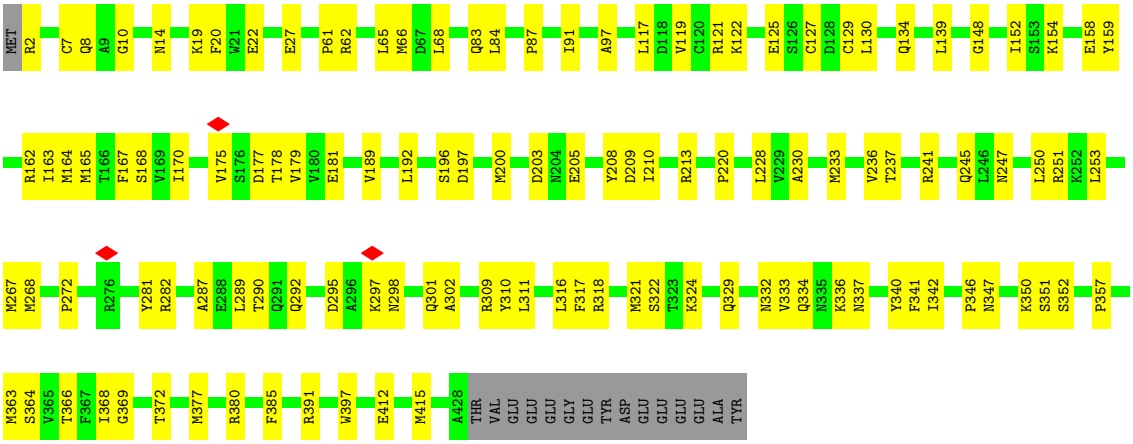
• Molecule 1: Tubulin beta chain

Chain UH:



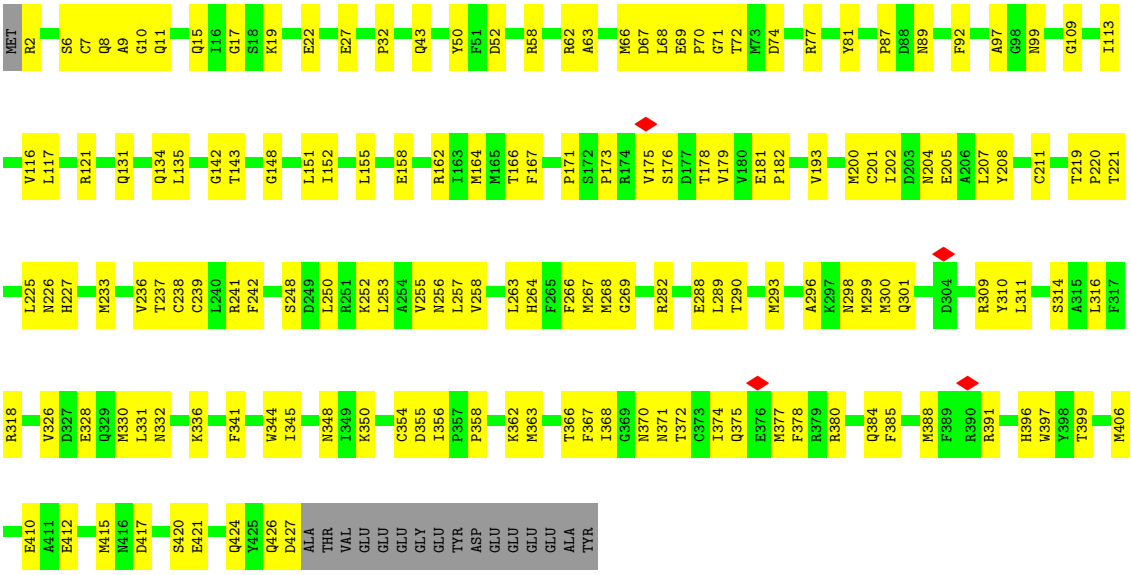
• Molecule 1: Tubulin beta chain

Chain UJ:



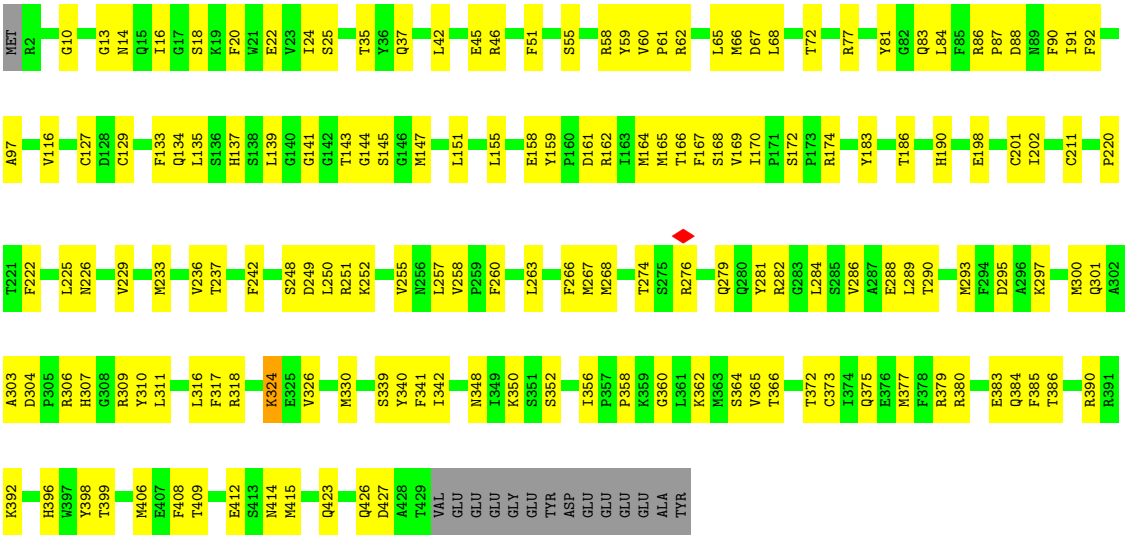
• Molecule 1: Tubulin beta chain

Chain UL:



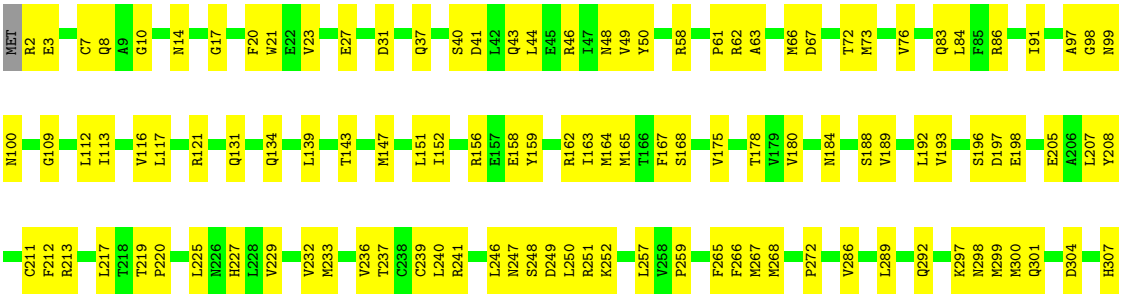
• Molecule 1: Tubulin beta chain

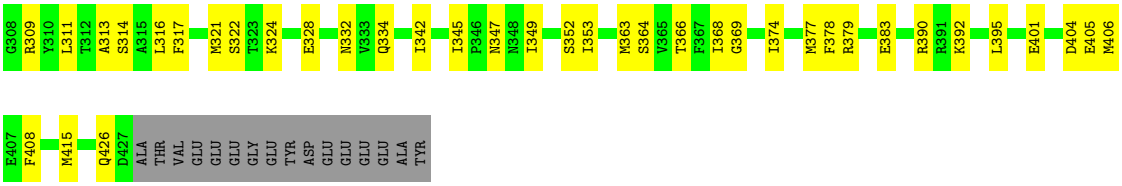
Chain V:



• Molecule 1: Tubulin beta chain

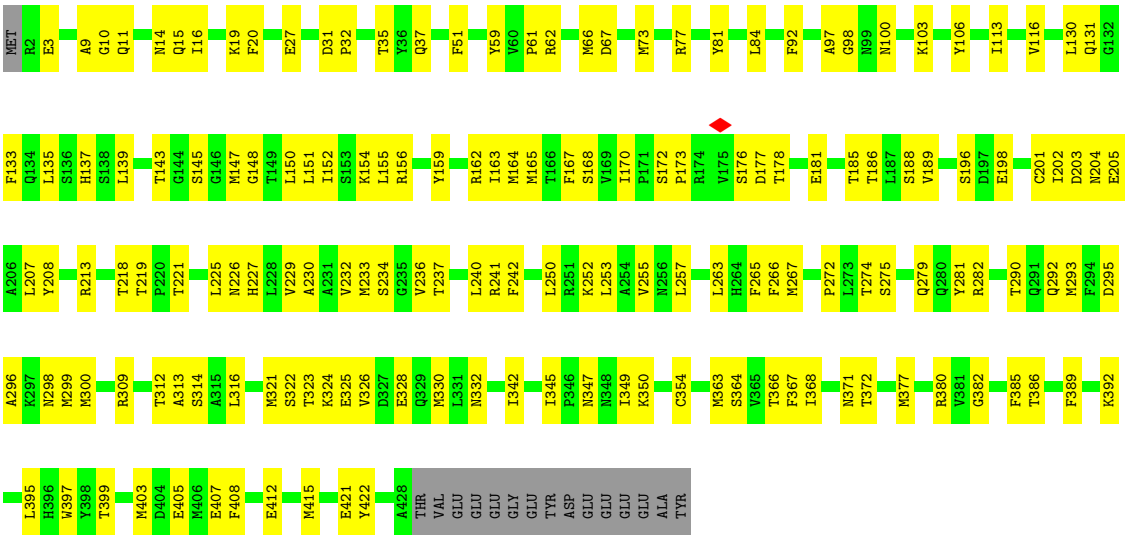
Chain VB:





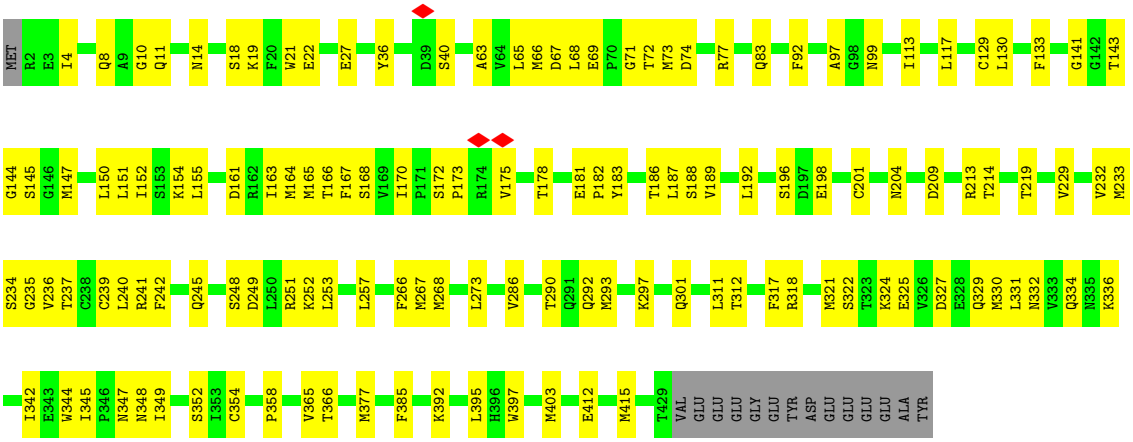
• Molecule 1: Tubulin beta chain

Chain VD:



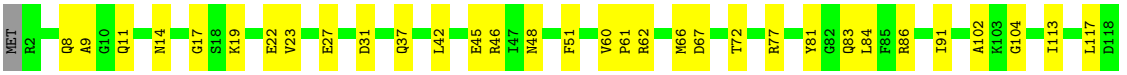
• Molecule 1: Tubulin beta chain

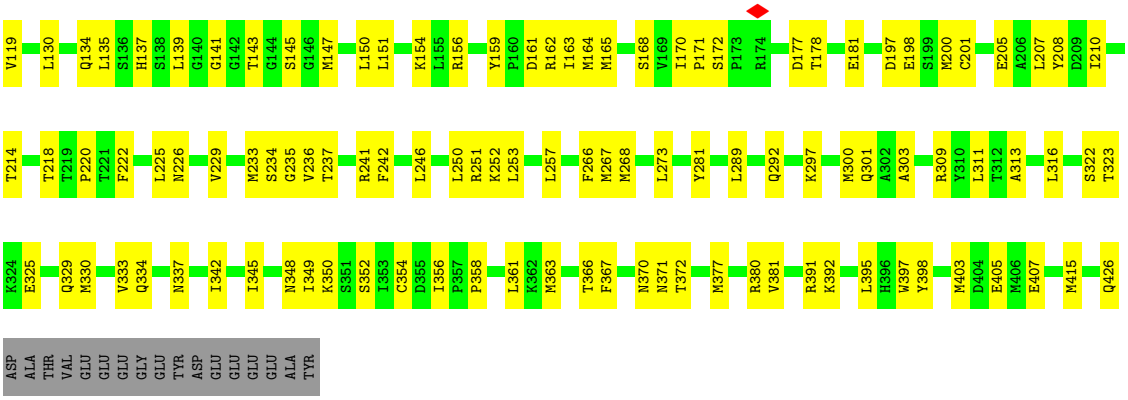
Chain VF:



• Molecule 1: Tubulin beta chain

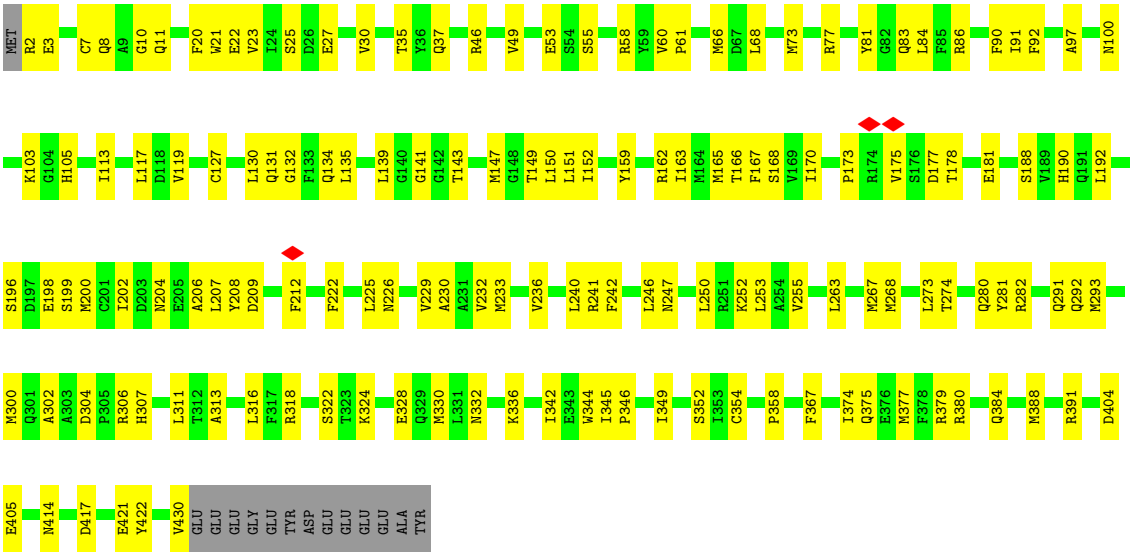
Chain VH:





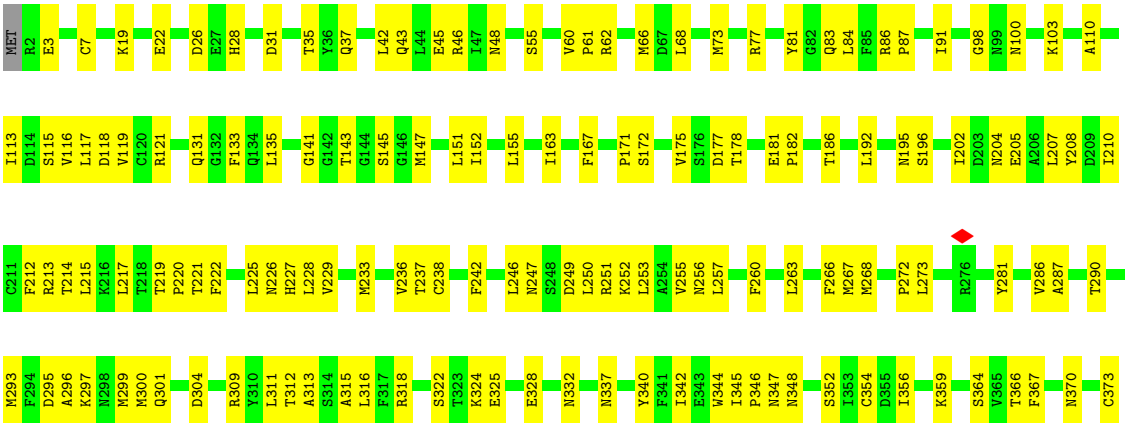
• Molecule 1: Tubulin beta chain

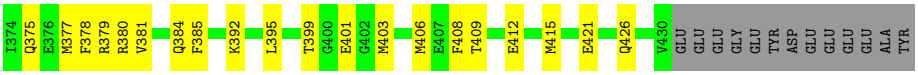
Chain VJ:



• Molecule 1: Tubulin beta chain

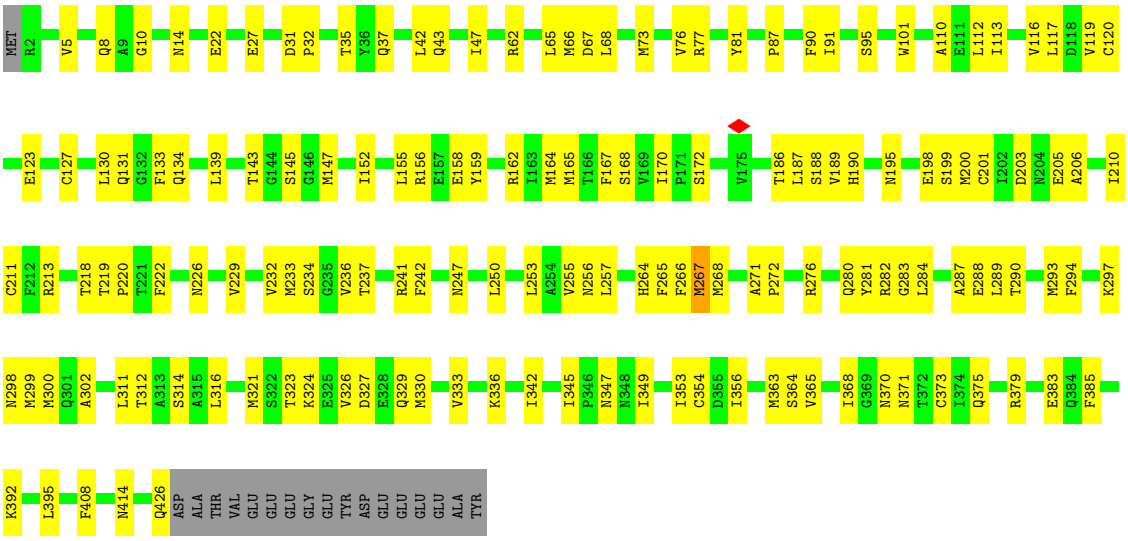
Chain VL:





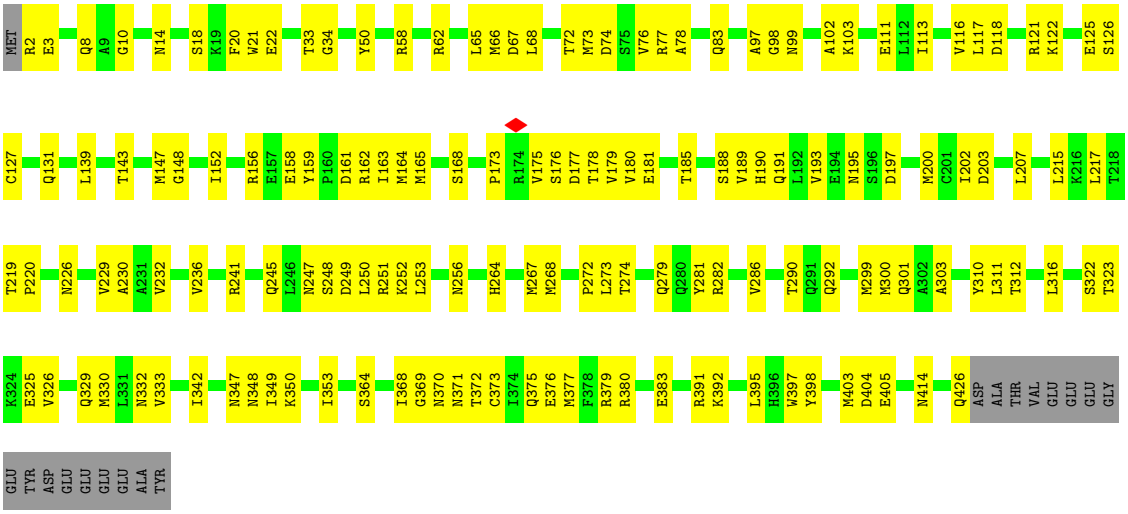
• Molecule 1: Tubulin beta chain

Chain W:



• Molecule 1: Tubulin beta chain

Chain WB:

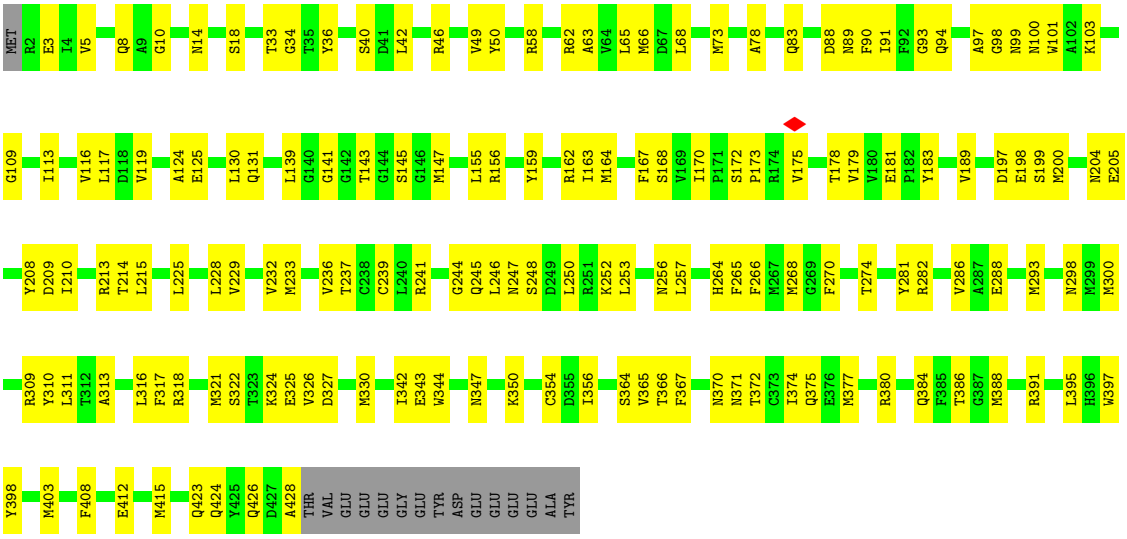


• Molecule 1: Tubulin beta chain

Chain WD:

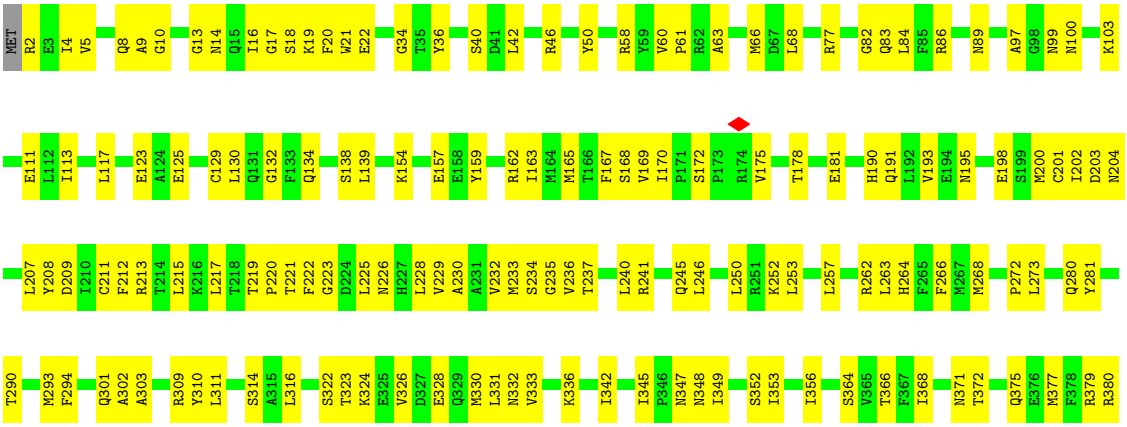
• Molecule 1: Tubulin beta chain

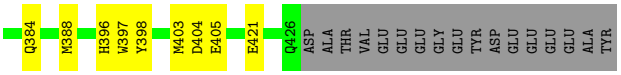
Chain WF:



• Molecule 1: Tubulin beta chain

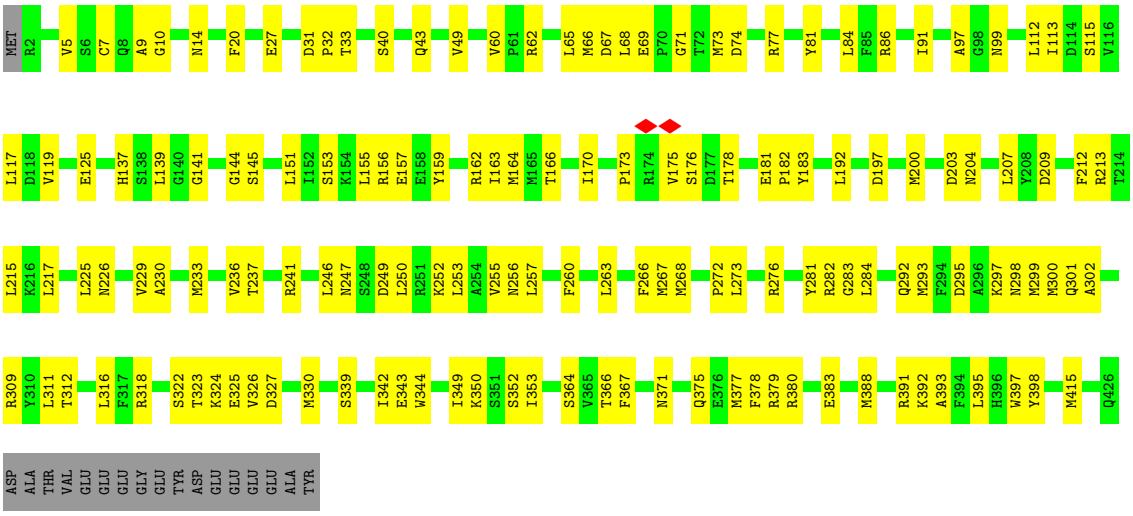
Chain WH:





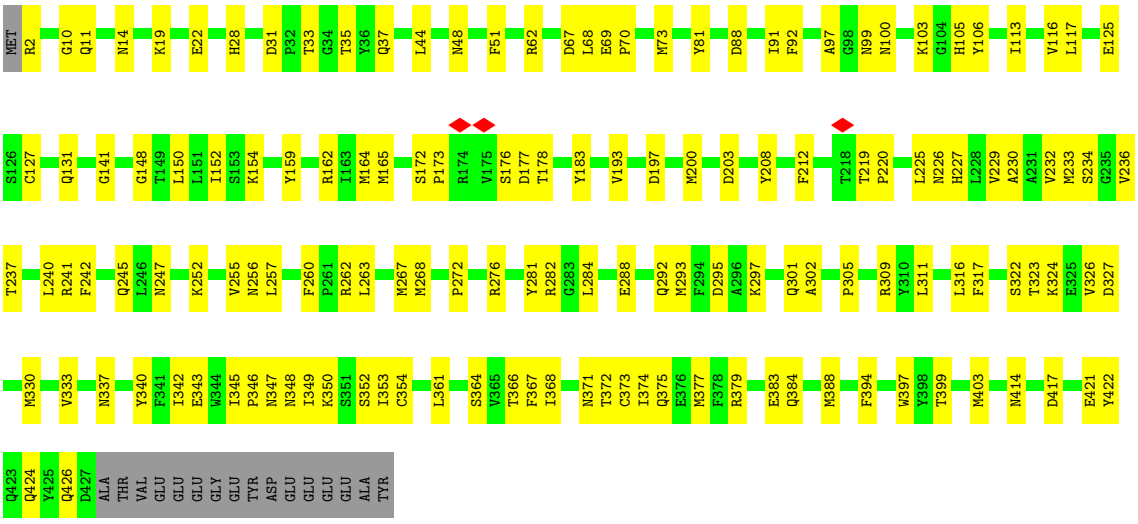
• Molecule 1: Tubulin beta chain

Chain WJ:



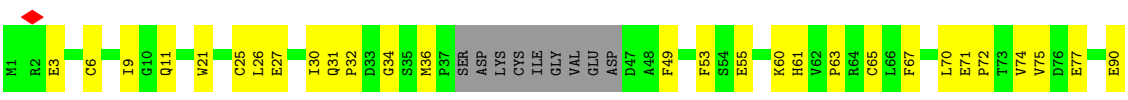
• Molecule 1: Tubulin beta chain

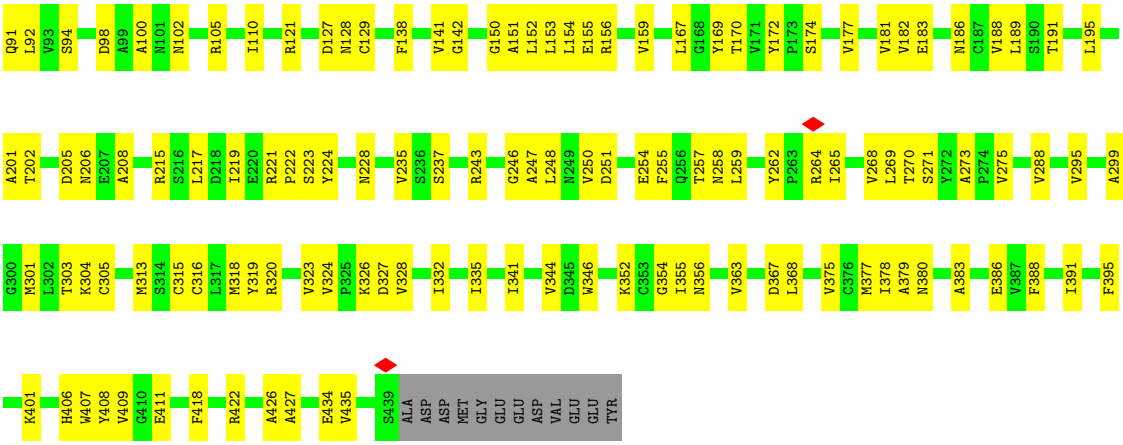
Chain WL:



• Molecule 2: Tubulin alpha chain

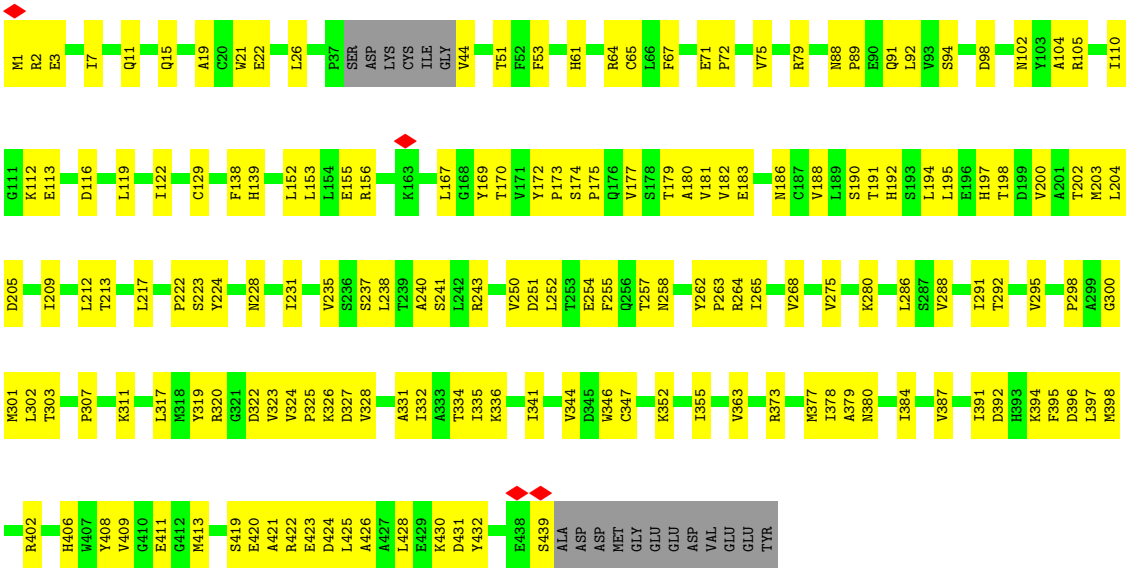
Chain AA:





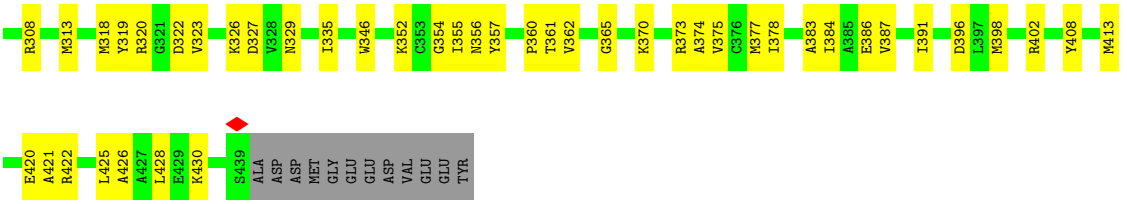
• Molecule 2: Tubulin alpha chain

Chain AC:



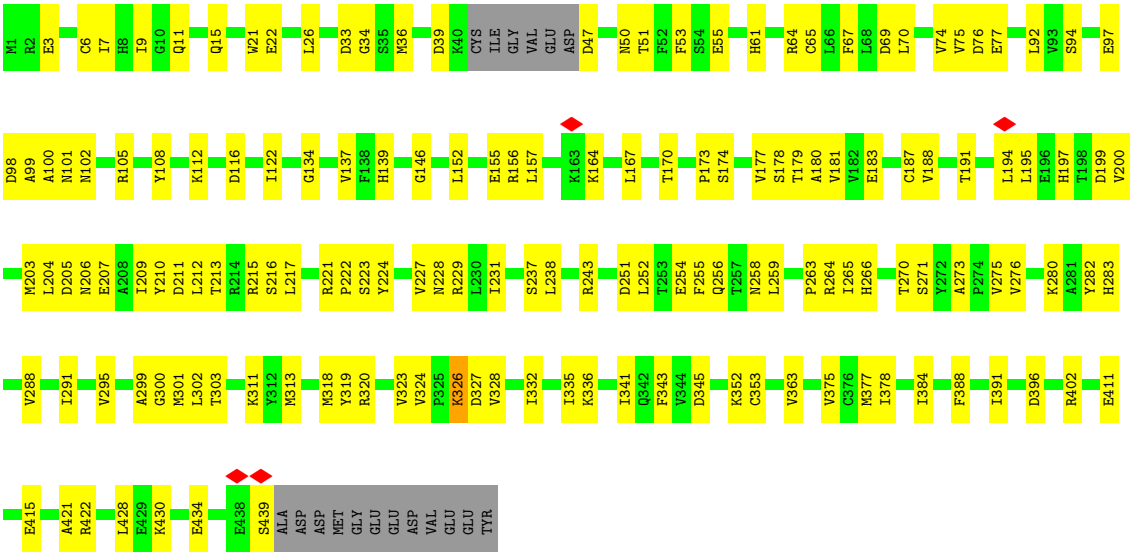
• Molecule 2: Tubulin alpha chain

Chain AE:



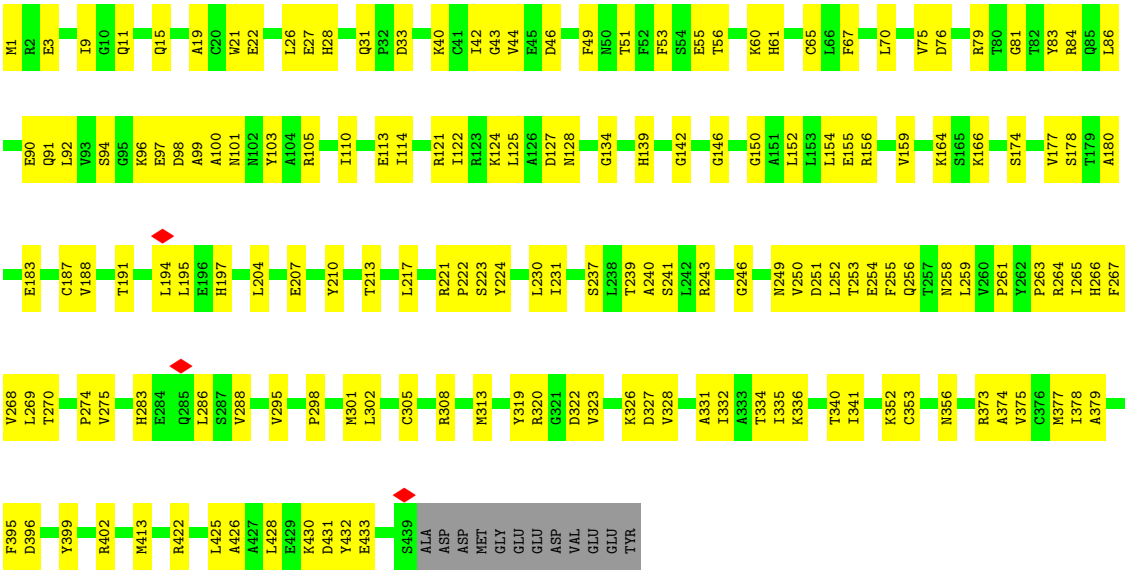
• Molecule 2: Tubulin alpha chain

Chain AG:



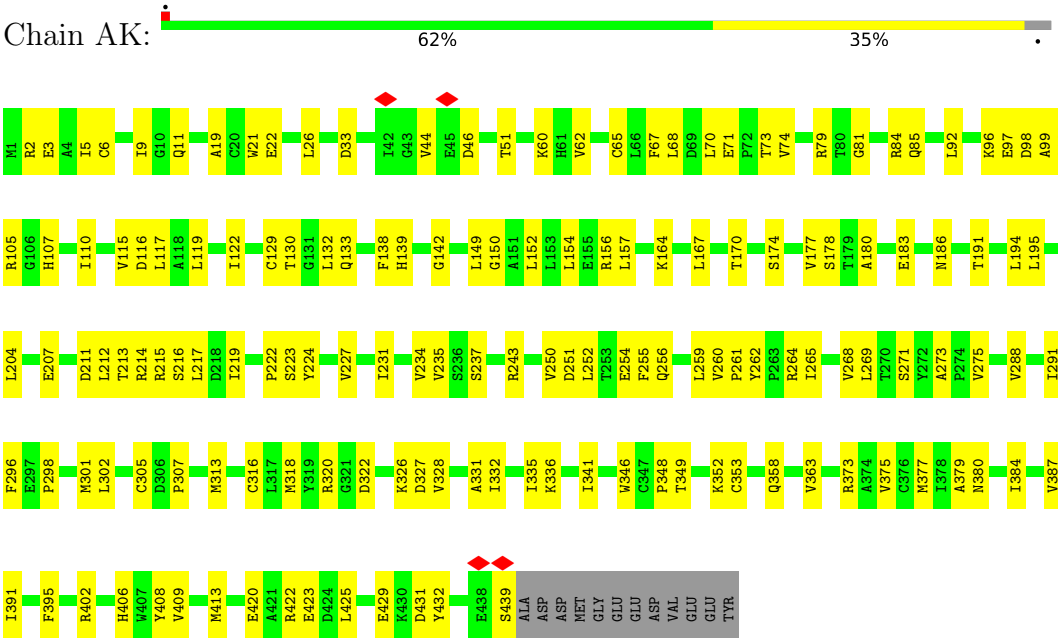
• Molecule 2: Tubulin alpha chain

Chain AI:



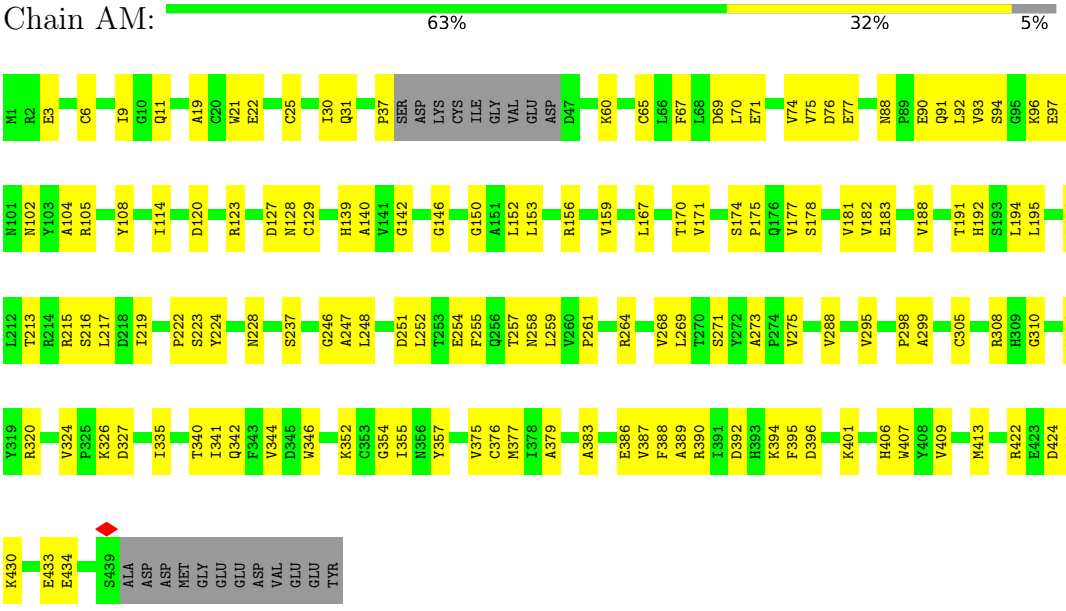
• Molecule 2: Tubulin alpha chain

Chain AK:



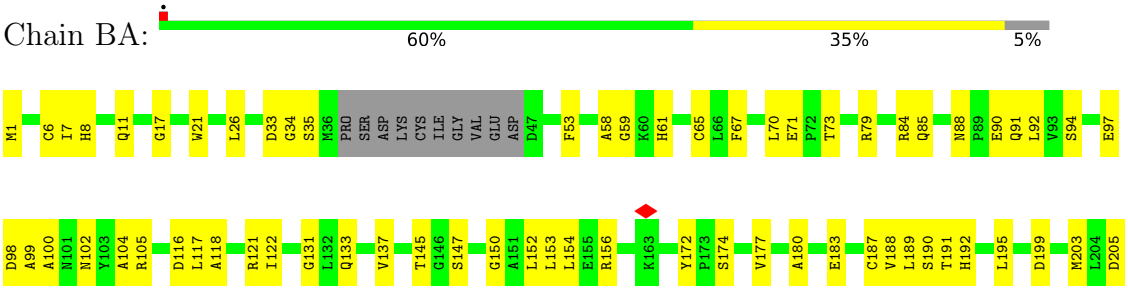
• Molecule 2: Tubulin alpha chain

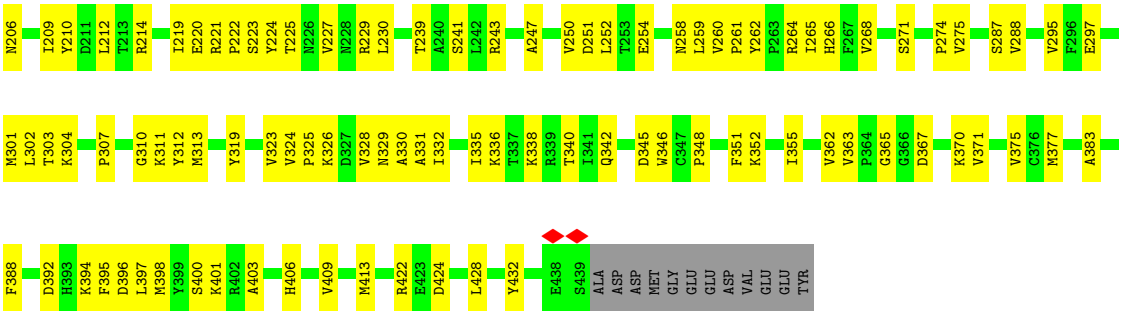
Chain AM:



• Molecule 2: Tubulin alpha chain

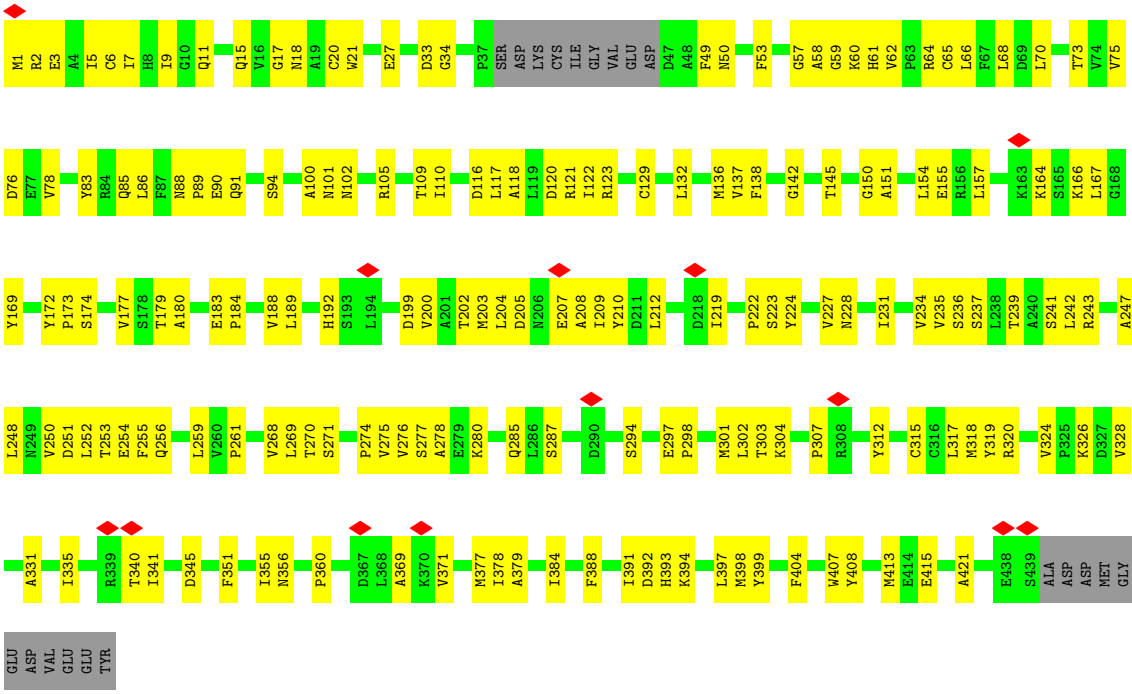
Chain BA:





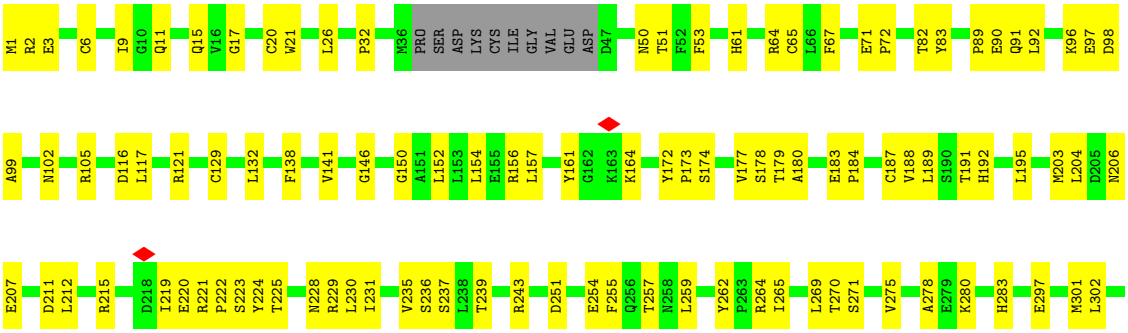
• Molecule 2: Tubulin alpha chain

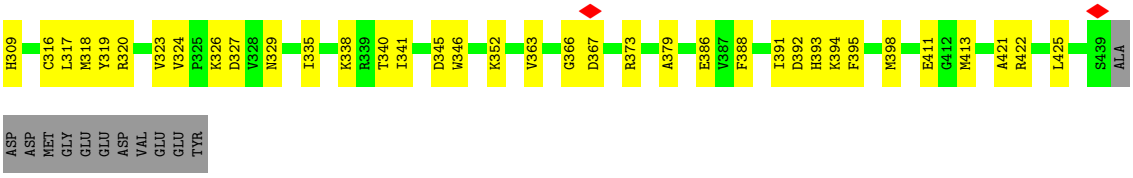
Chain BC:



• Molecule 2: Tubulin alpha chain

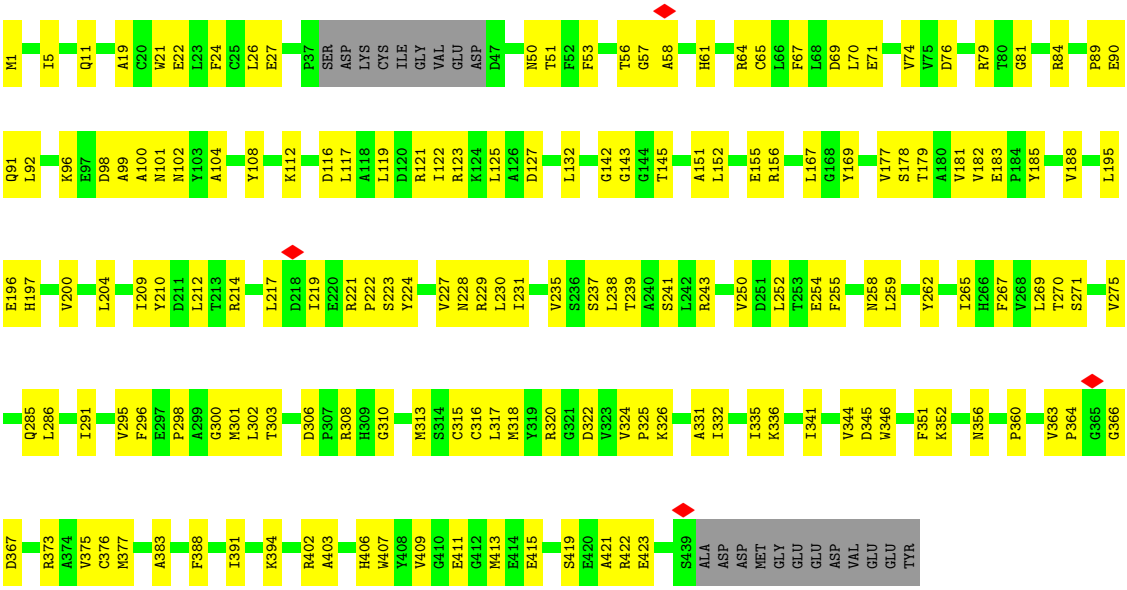
Chain BE:





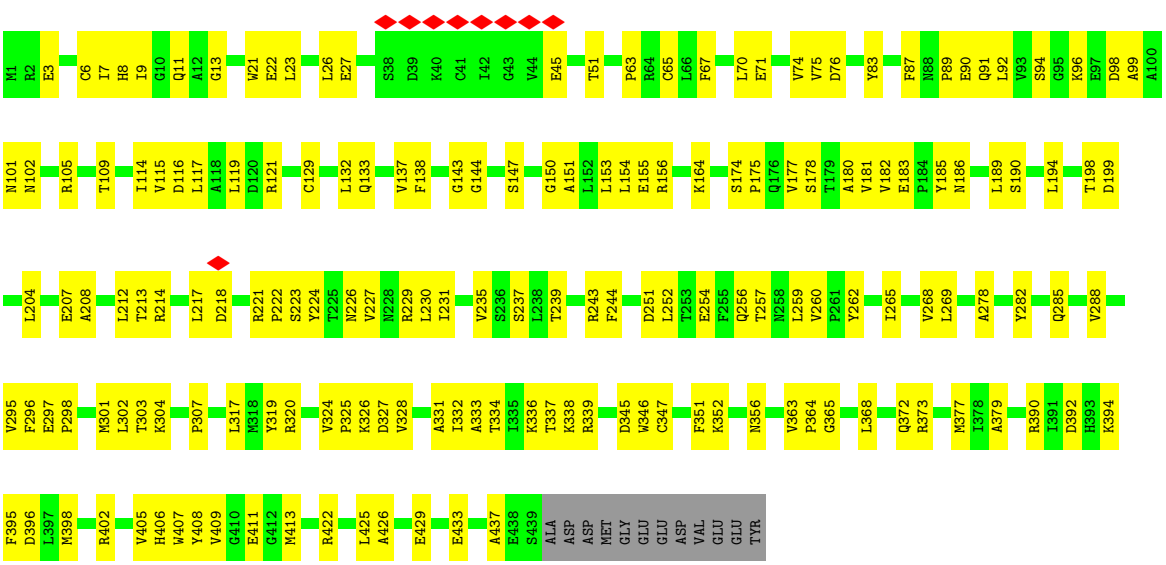
• Molecule 2: Tubulin alpha chain

Chain BG:



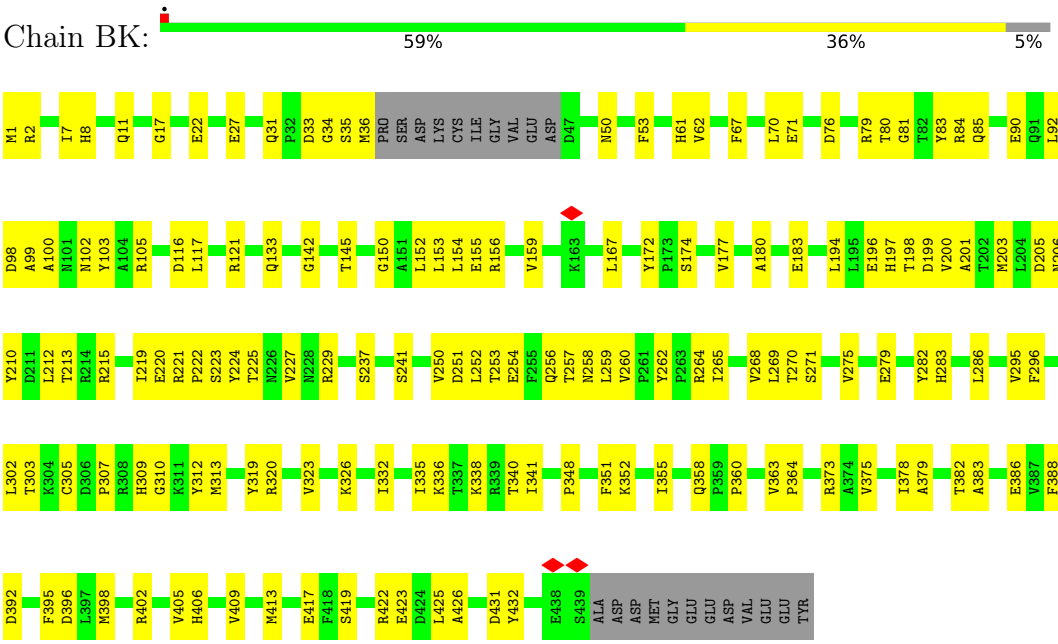
• Molecule 2: Tubulin alpha chain

Chain BI:



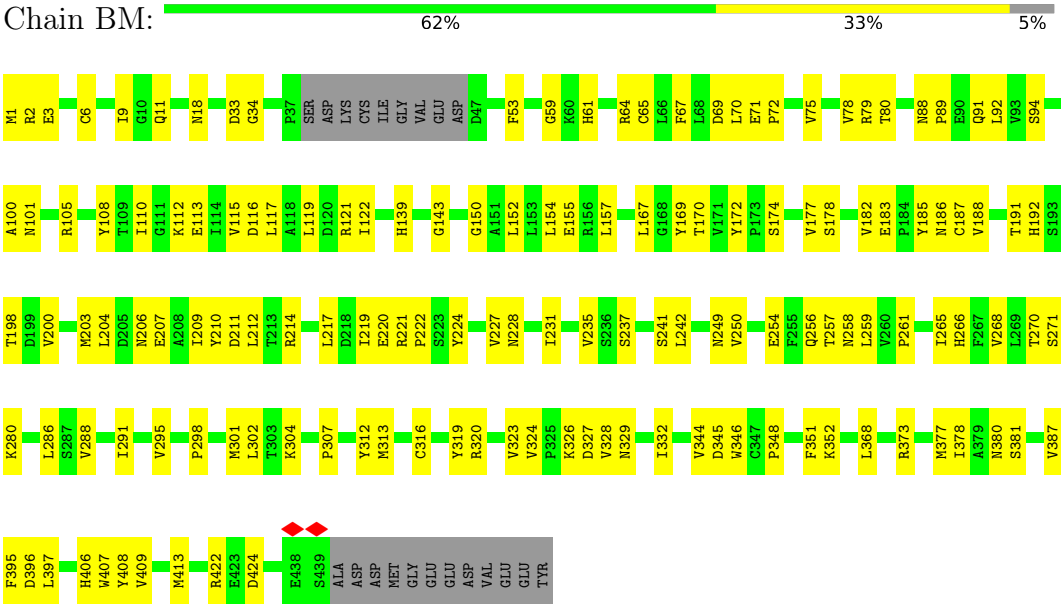
• Molecule 2: Tubulin alpha chain

Chain BK:



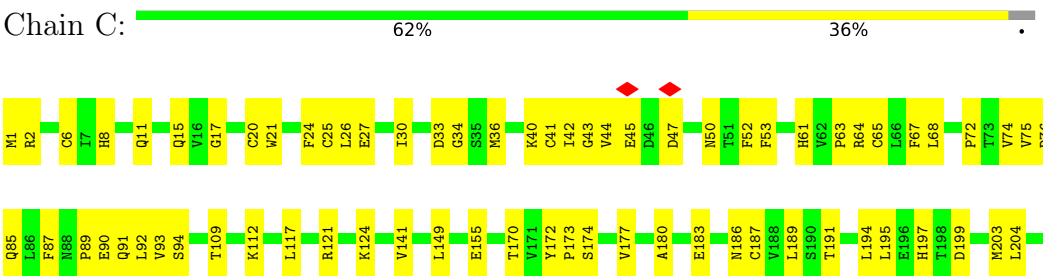
• Molecule 2: Tubulin alpha chain

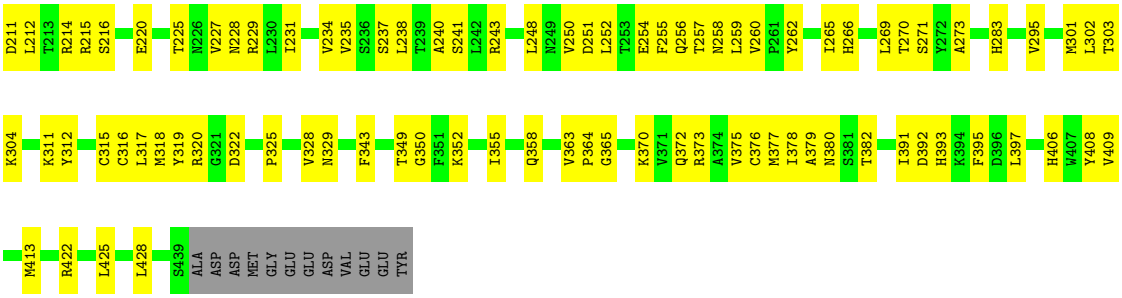
Chain BM:



• Molecule 2: Tubulin alpha chain

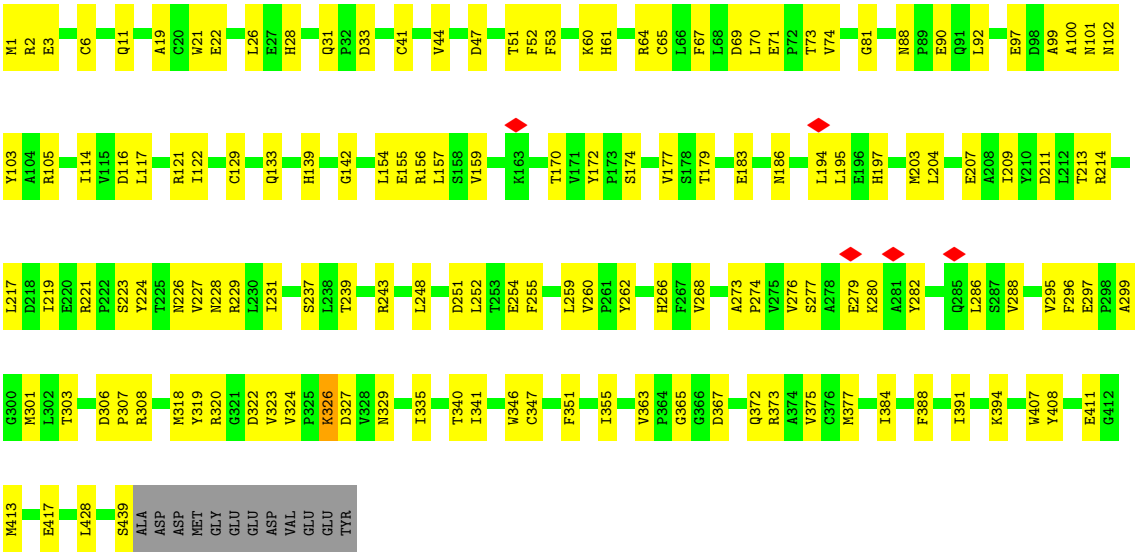
Chain C:





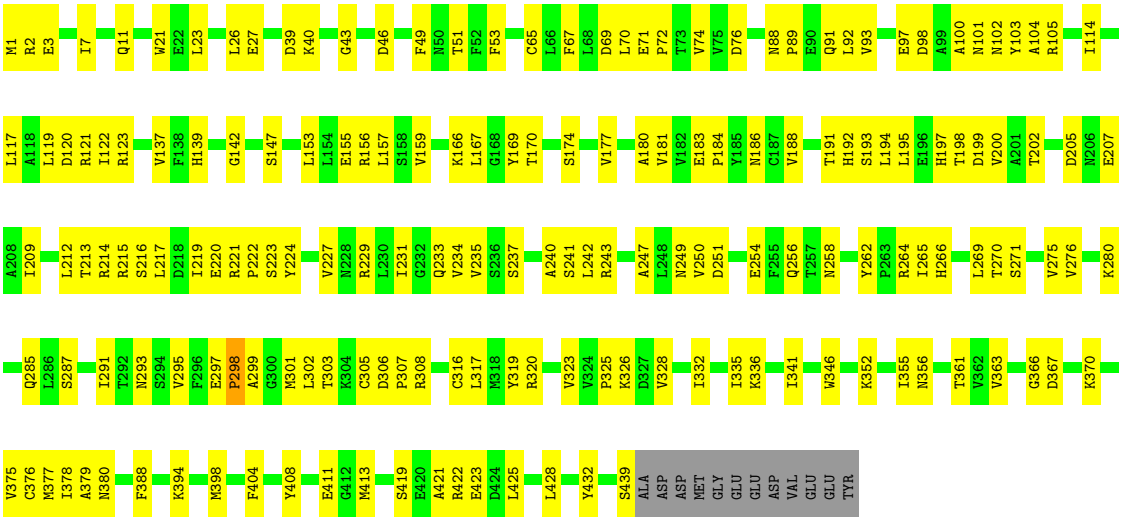
• Molecule 2: Tubulin alpha chain

Chain CB:



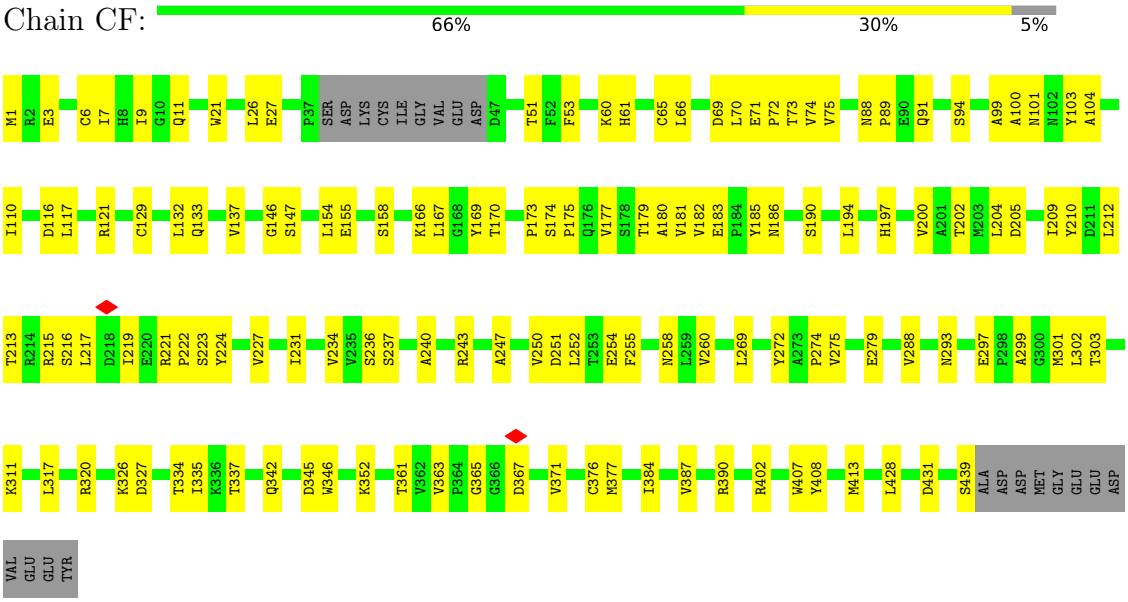
• Molecule 2: Tubulin alpha chain

Chain CD:



• Molecule 2: Tubulin alpha chain

Chain CF:



• Molecule 2: Tubulin alpha chain

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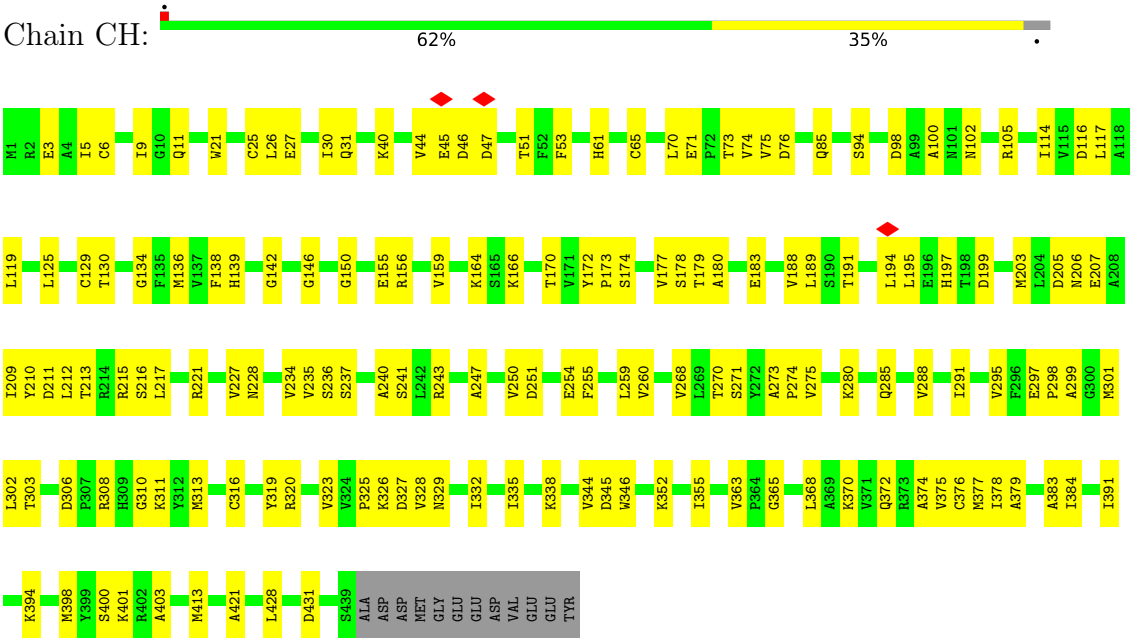
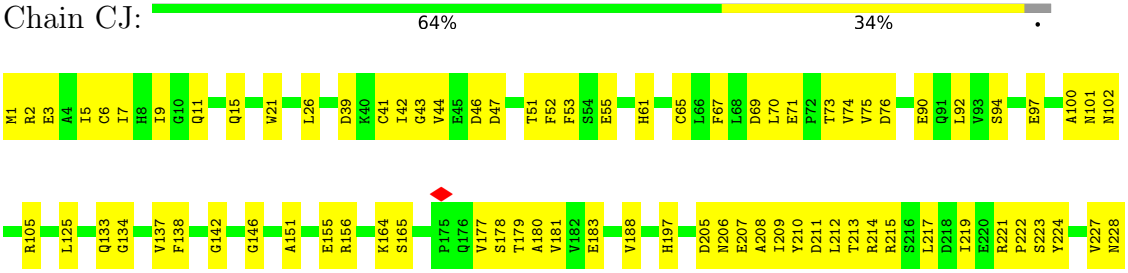
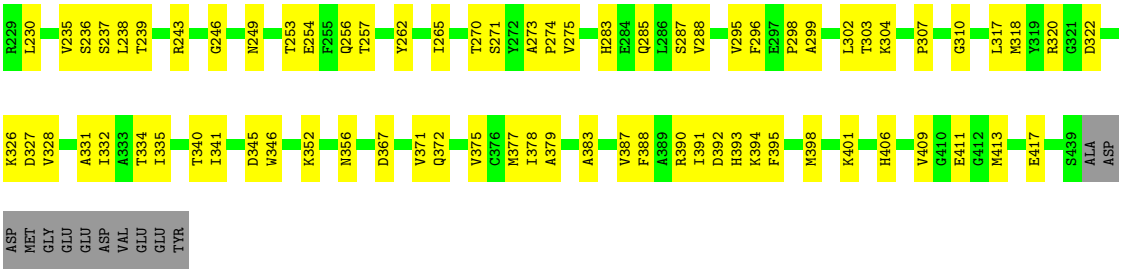


• Molecule 2: Tubulin alpha chain

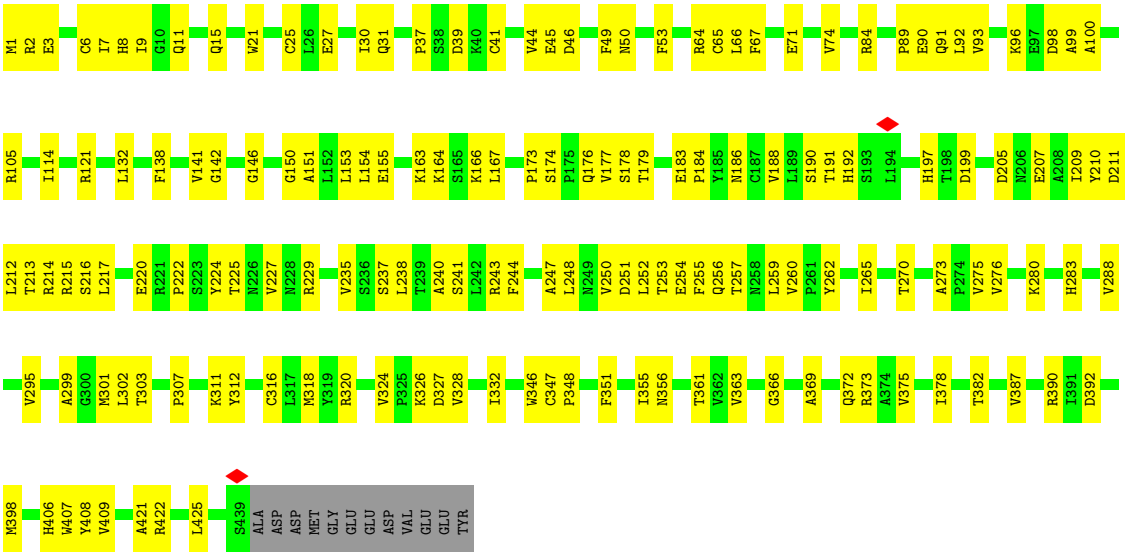
Chain CJ:





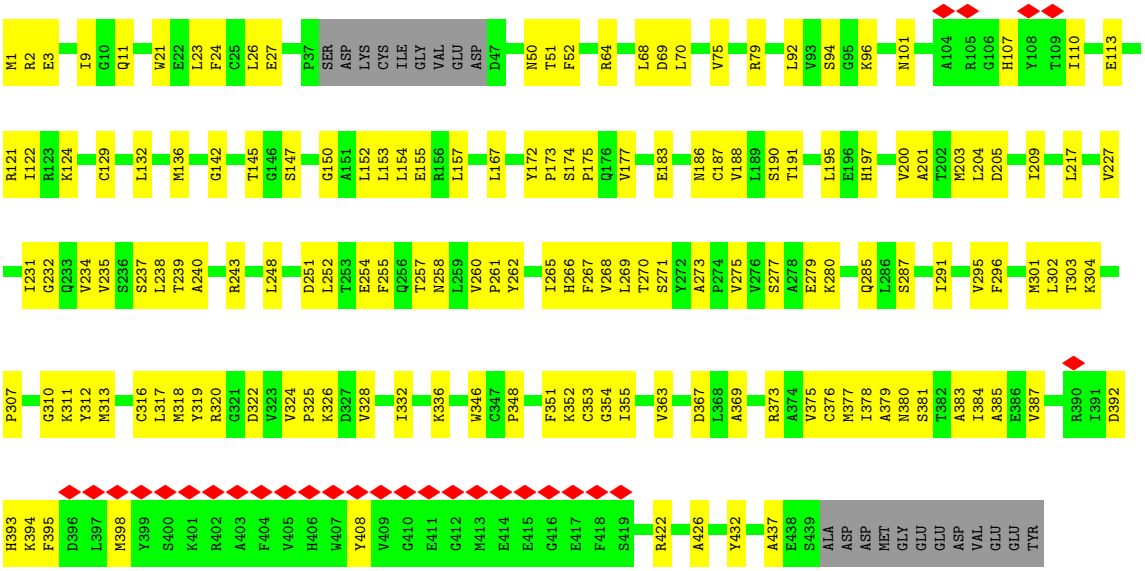
• Molecule 2: Tubulin alpha chain

Chain CL:



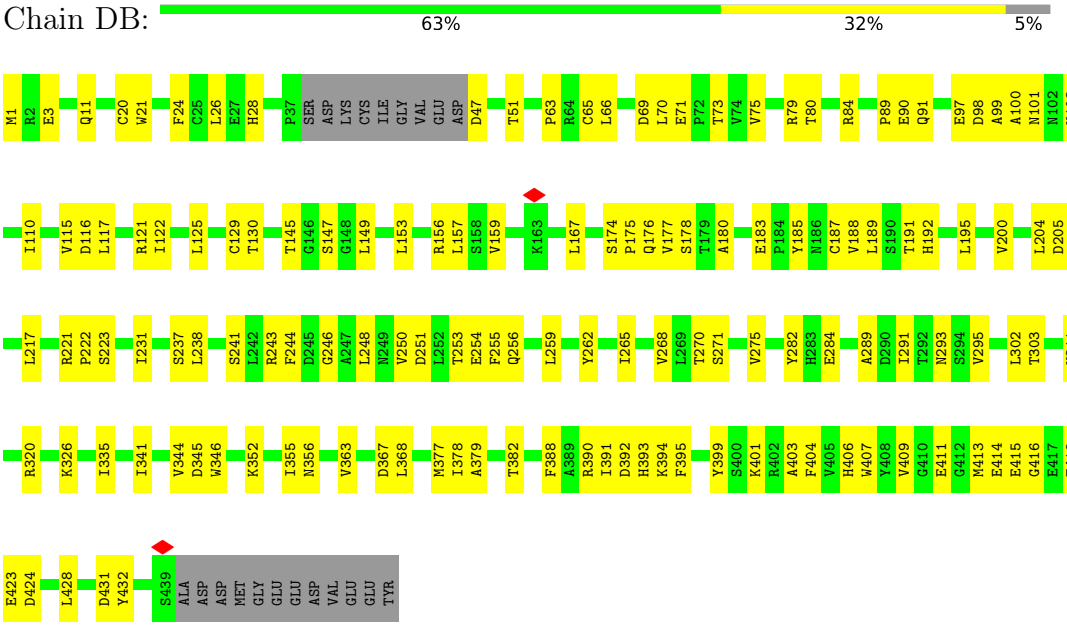
• Molecule 2: Tubulin alpha chain

Chain D:



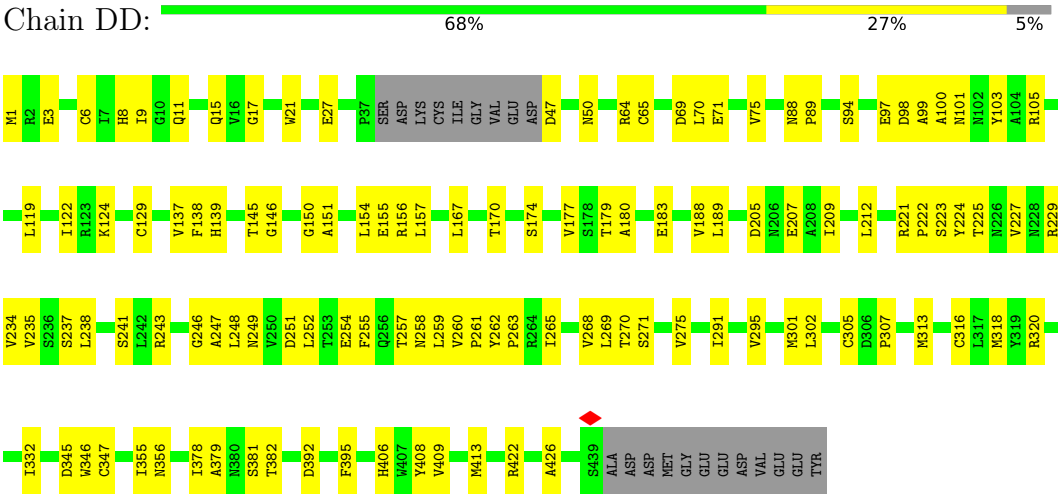
• Molecule 2: Tubulin alpha chain

Chain DB:



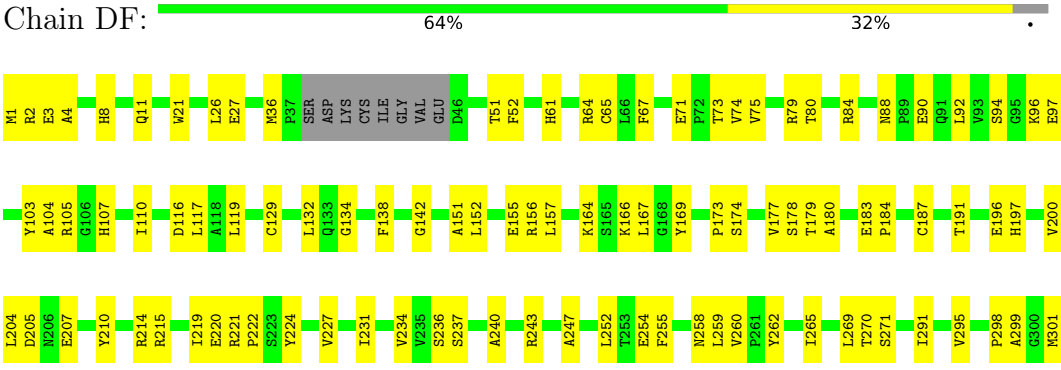
• Molecule 2: Tubulin alpha chain

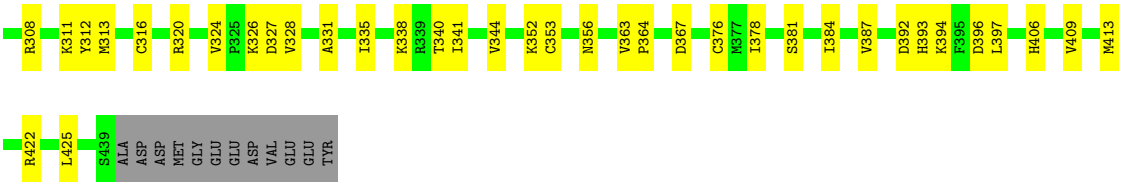
Chain DD:



• Molecule 2: Tubulin alpha chain

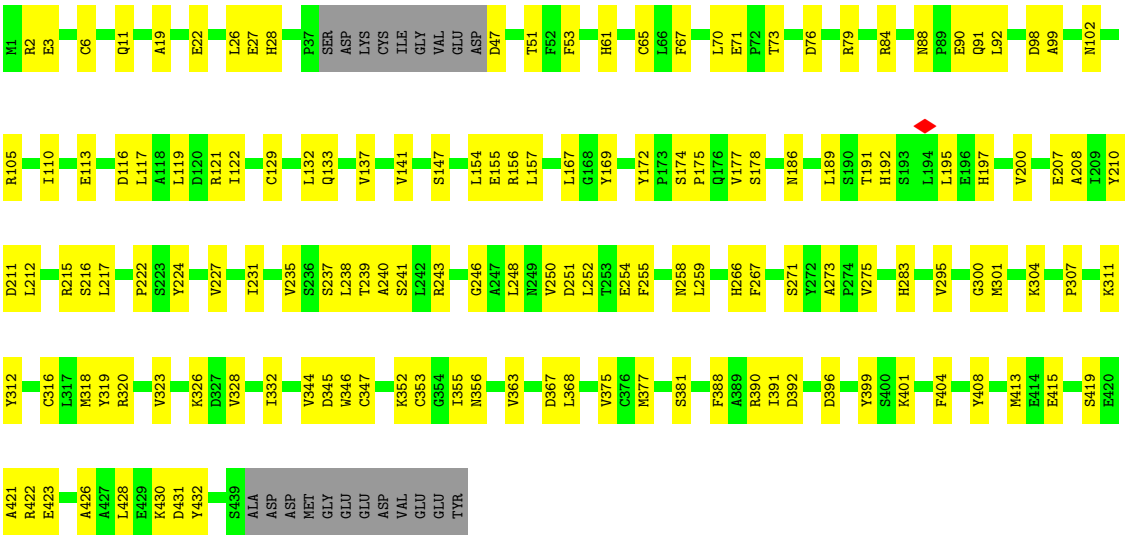
Chain DF:





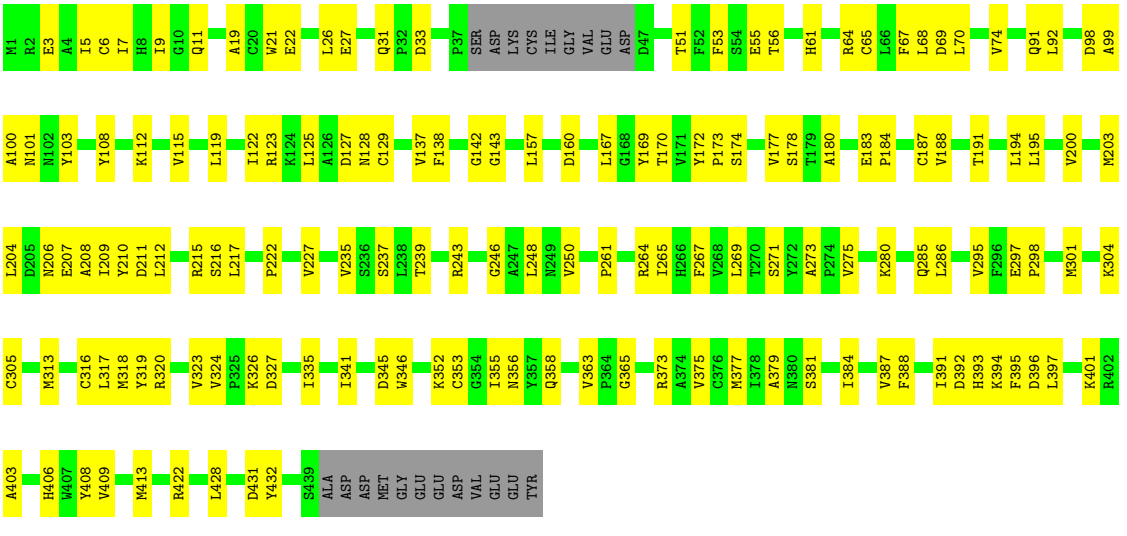
• Molecule 2: Tubulin alpha chain

Chain DH:



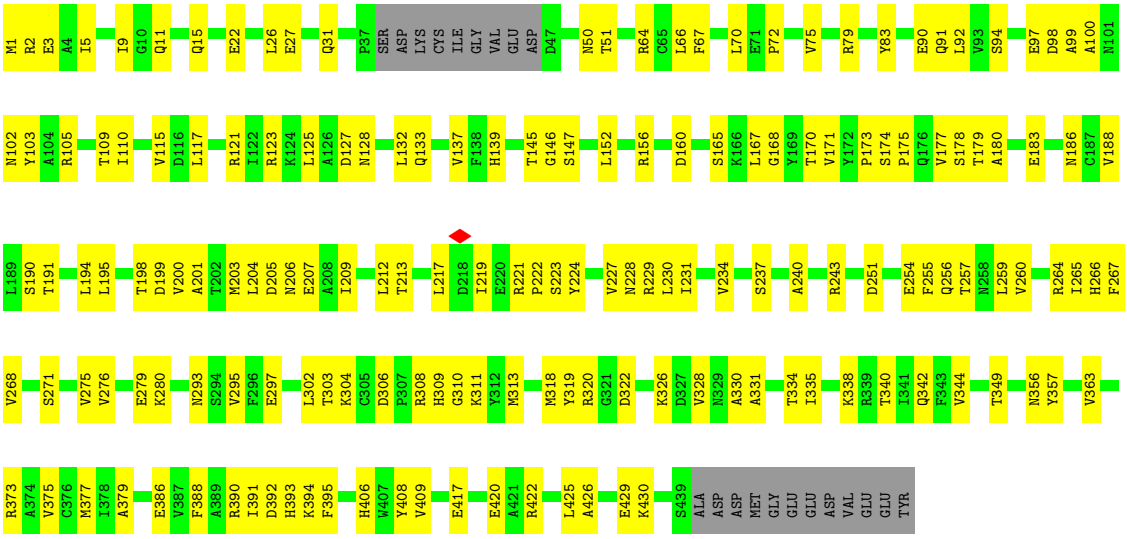
• Molecule 2: Tubulin alpha chain

Chain DJ:



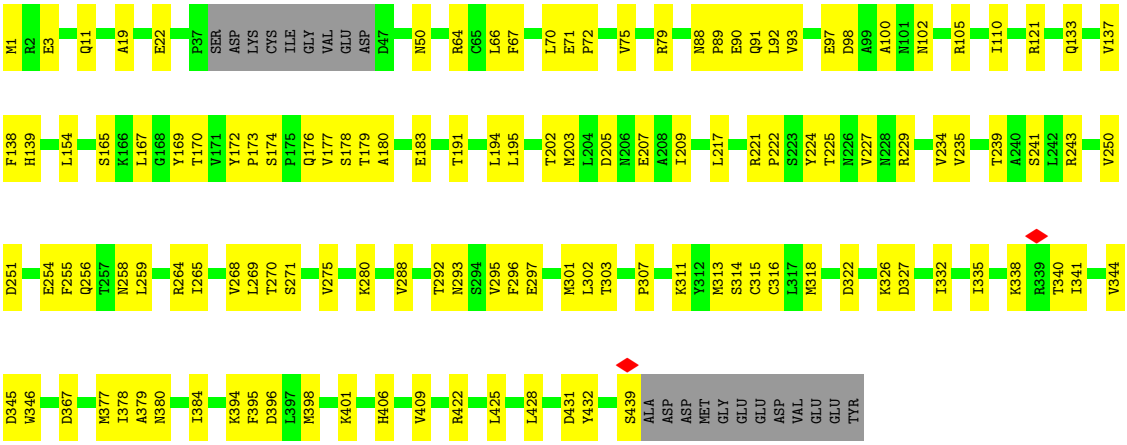
• Molecule 2: Tubulin alpha chain

Chain DL:



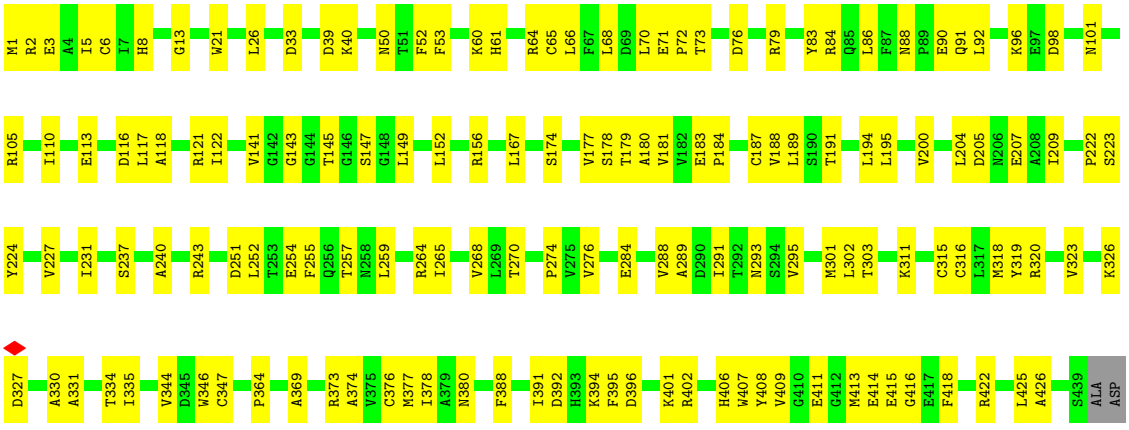
• Molecule 2: Tubulin alpha chain

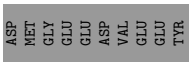
Chain EA:



• Molecule 2: Tubulin alpha chain

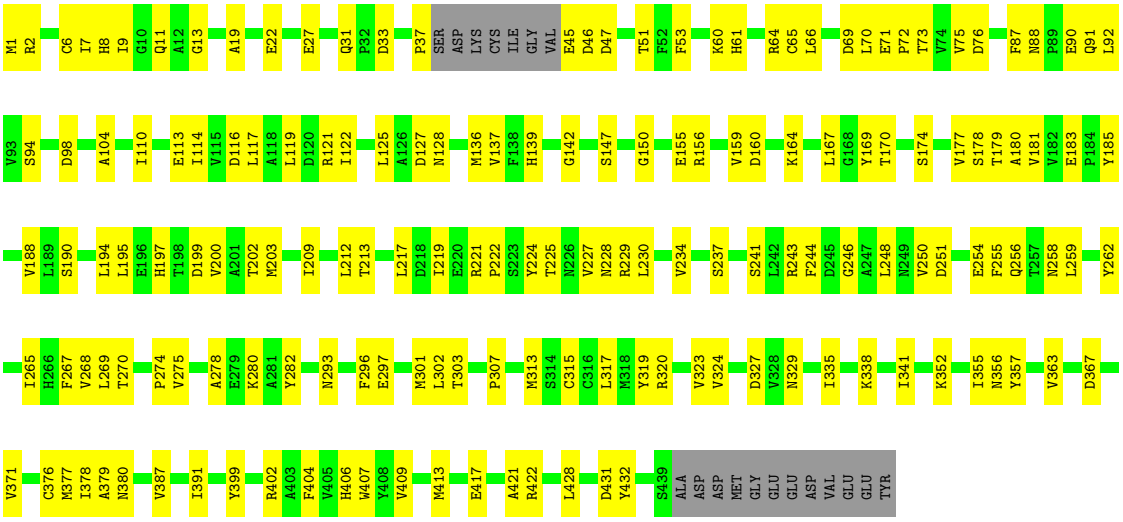
Chain EC:





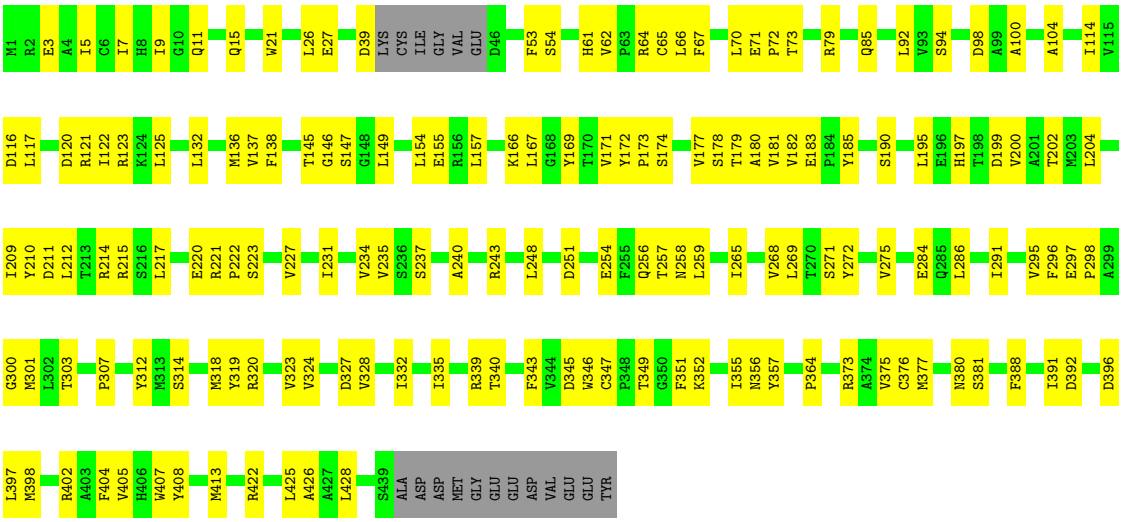
• Molecule 2: Tubulin alpha chain

Chain EE:



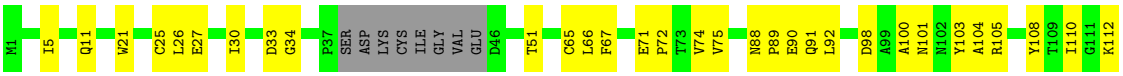
• Molecule 2: Tubulin alpha chain

Chain EG:



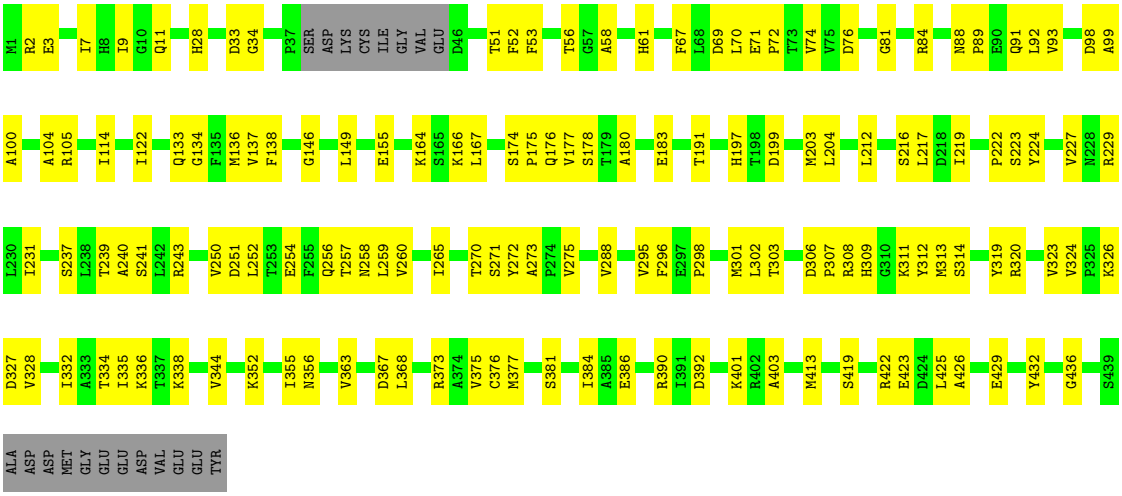
• Molecule 2: Tubulin alpha chain

Chain EI:



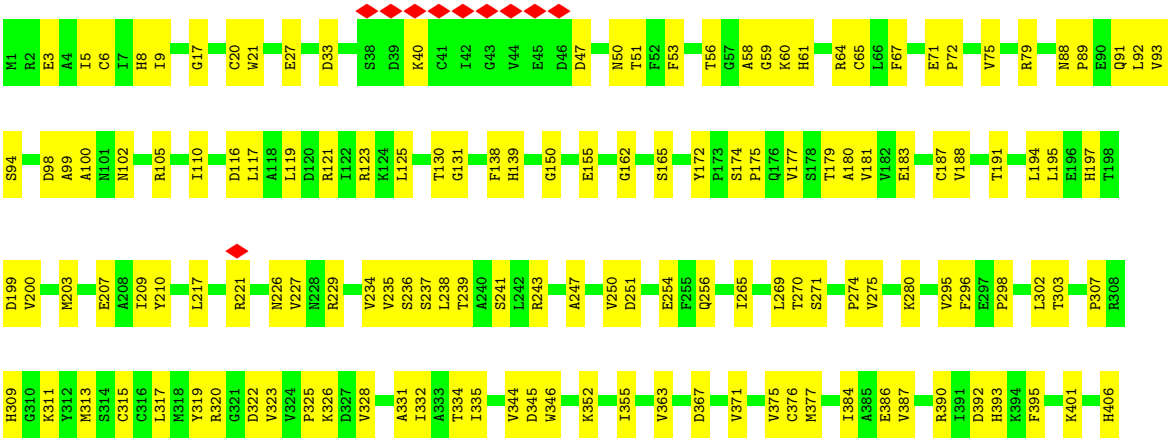
• Molecule 2: Tubulin alpha chain

Chain EK:



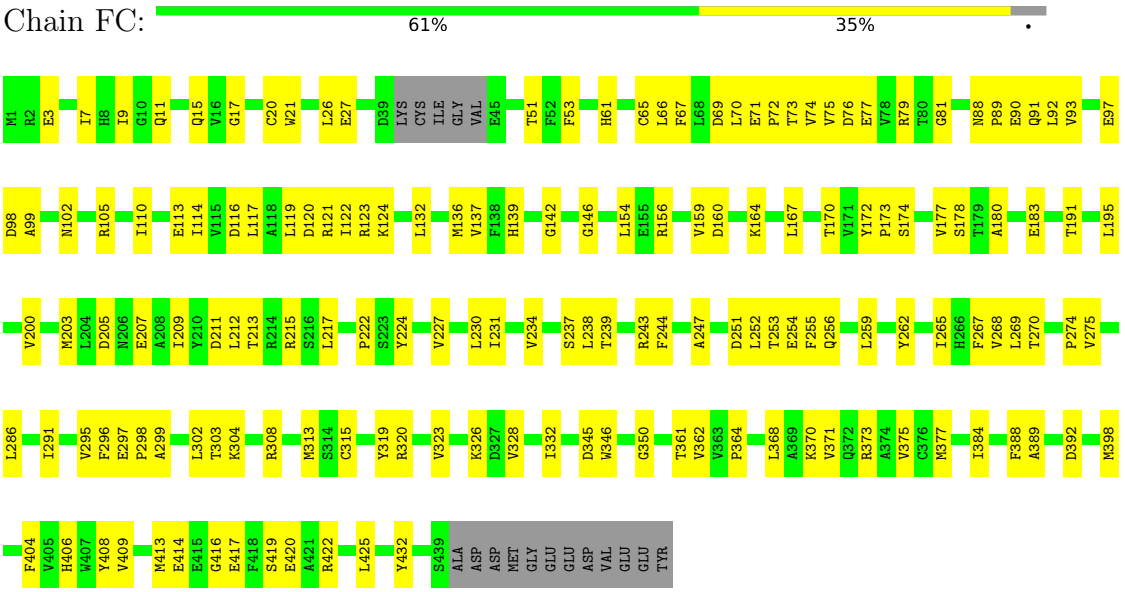
• Molecule 2: Tubulin alpha chain

Chain FA:



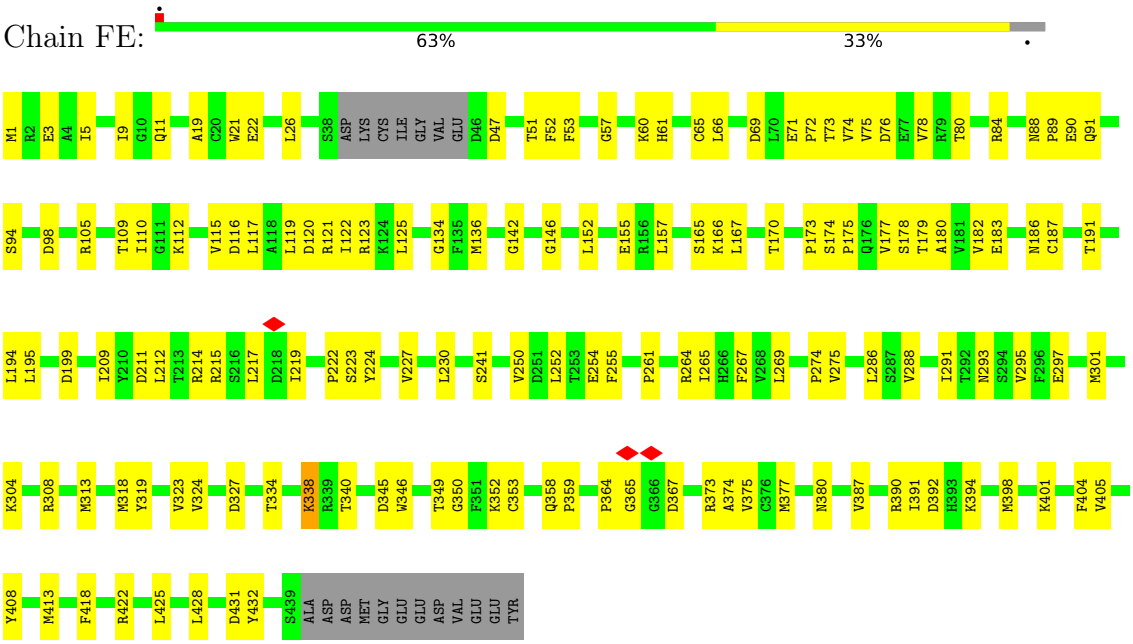
• Molecule 2: Tubulin alpha chain

Chain FC:



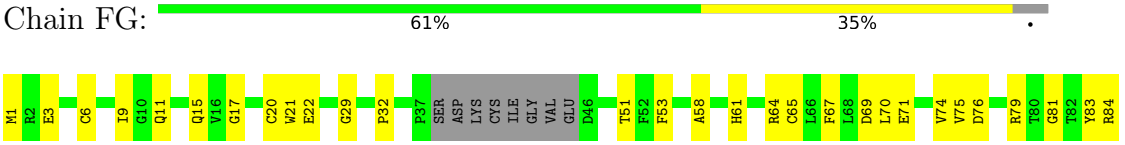
• Molecule 2: Tubulin alpha chain

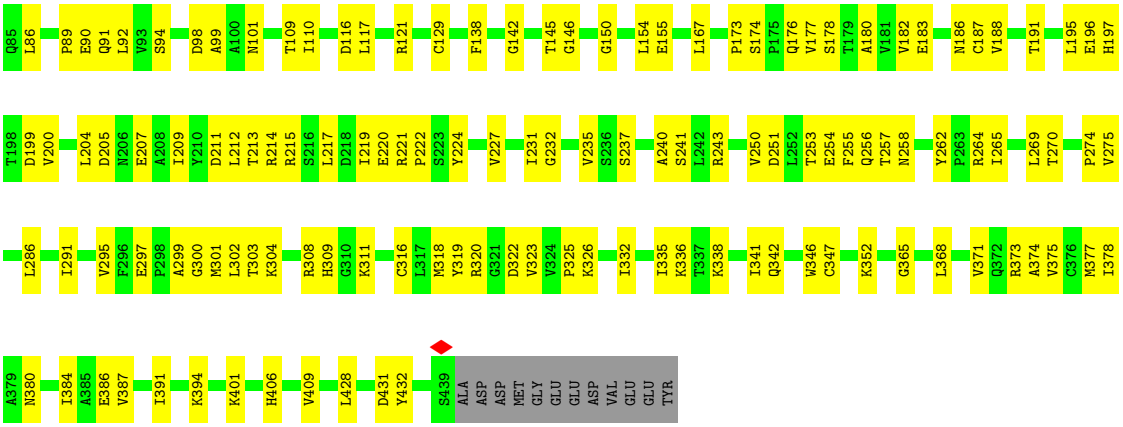
Chain FE:



• Molecule 2: Tubulin alpha chain

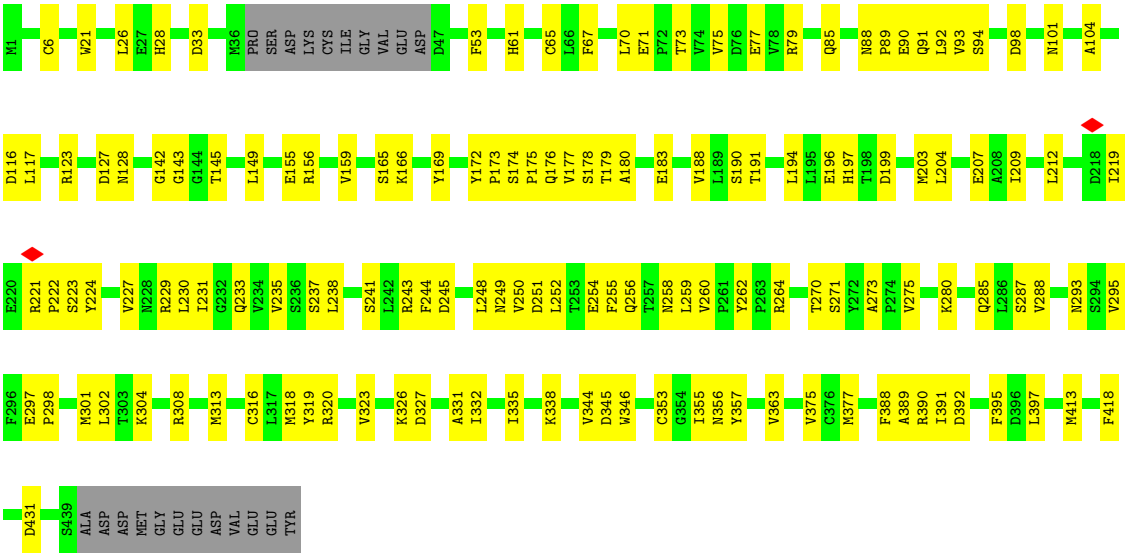
Chain FG:





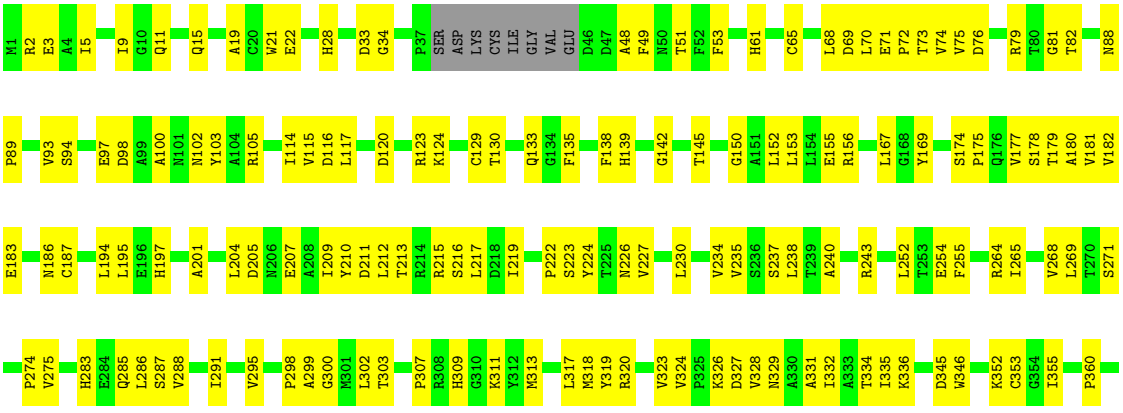
• Molecule 2: Tubulin alpha chain

Chain FI:



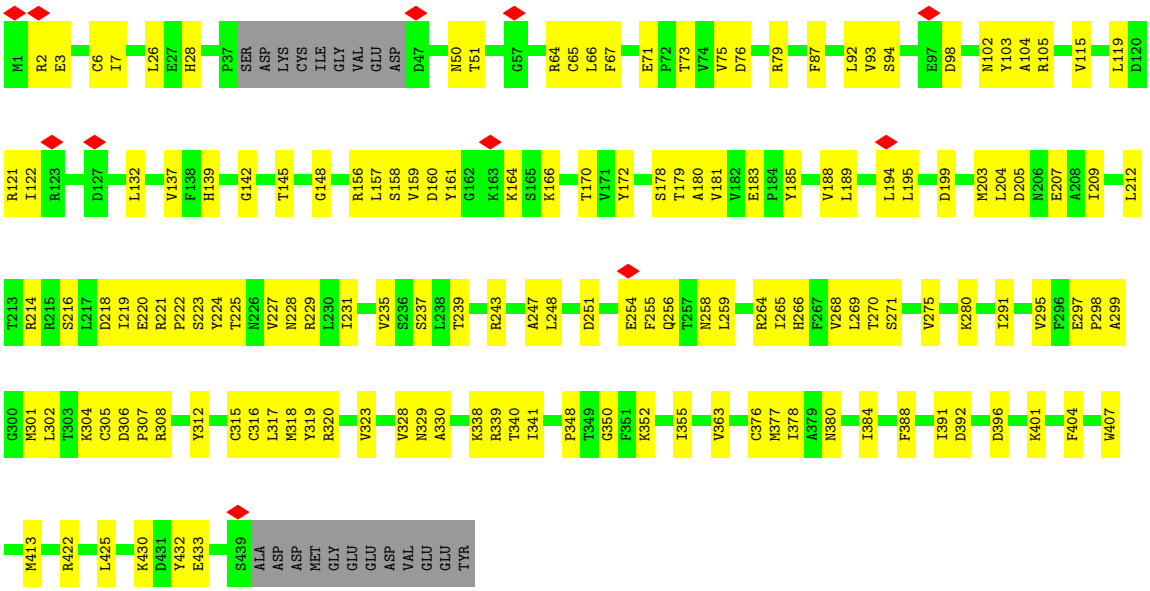
• Molecule 2: Tubulin alpha chain

Chain FK:



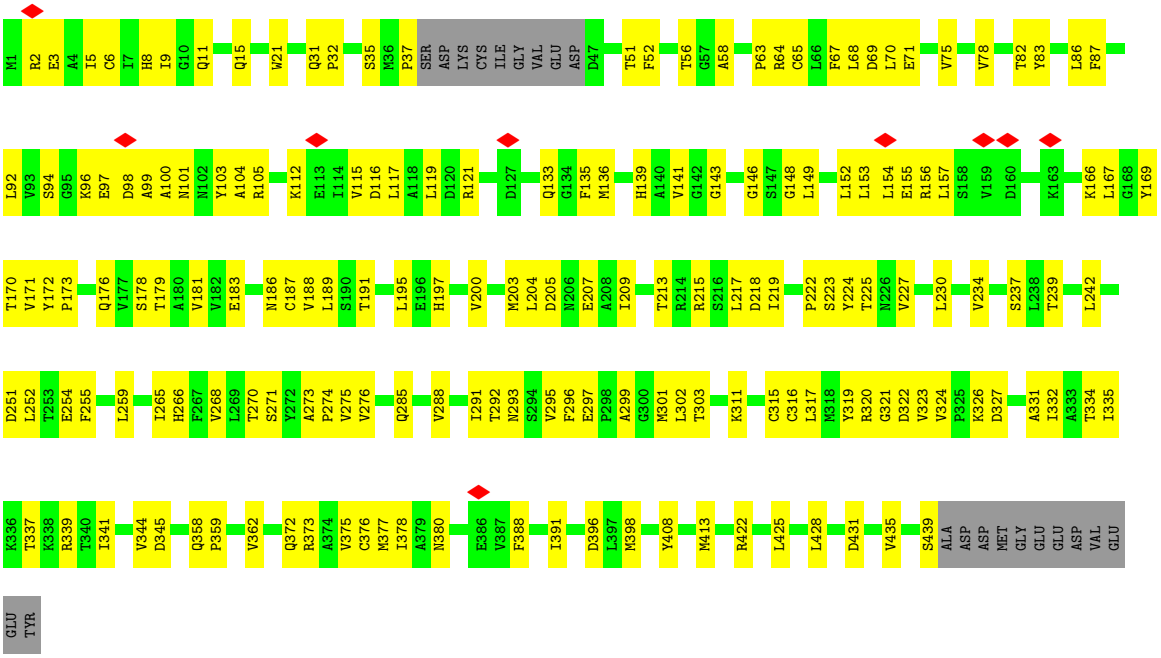
• Molecule 2: Tubulin alpha chain

Chain GA:



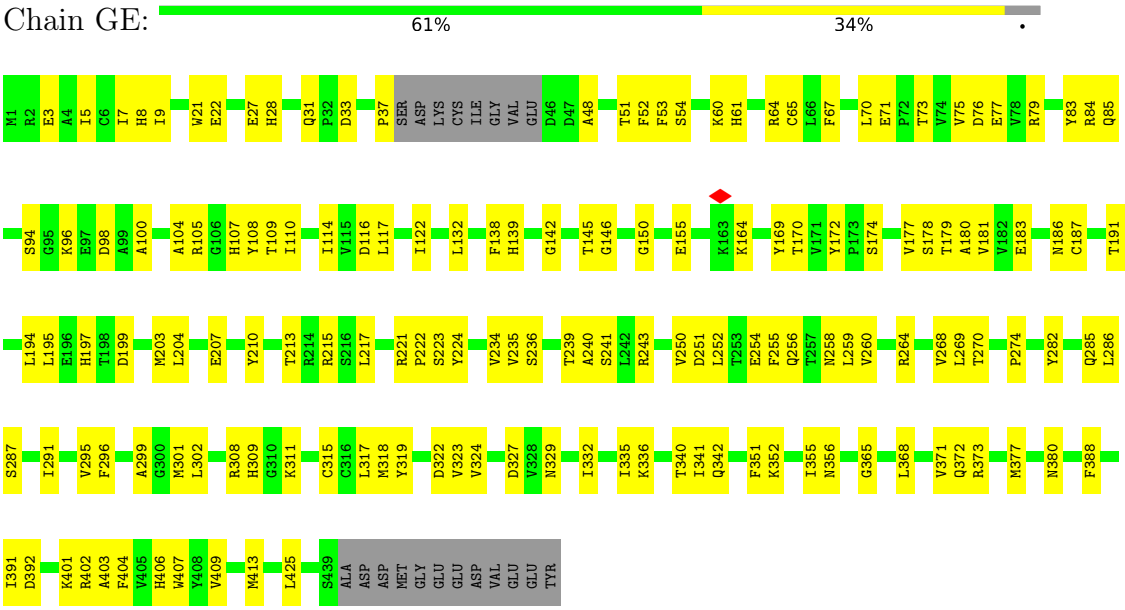
• Molecule 2: Tubulin alpha chain

Chain GC:



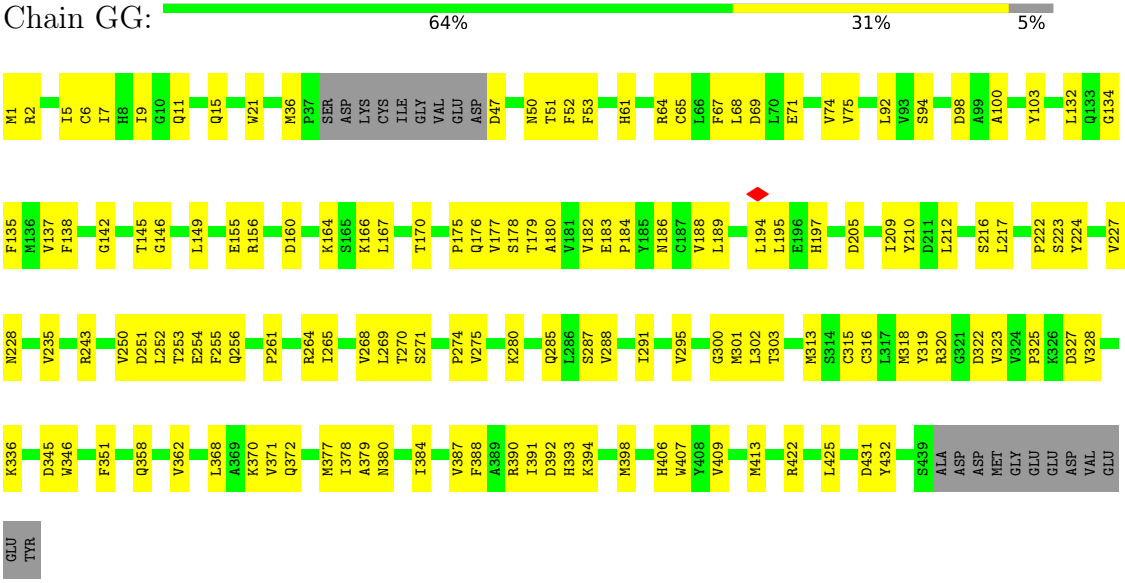
• Molecule 2: Tubulin alpha chain

Chain GE:



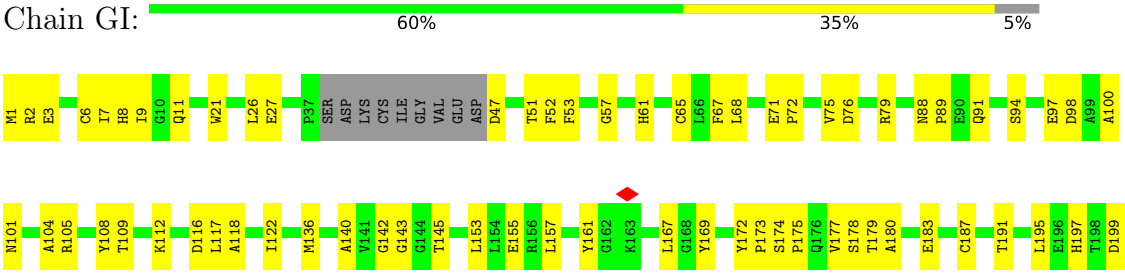
• Molecule 2: Tubulin alpha chain

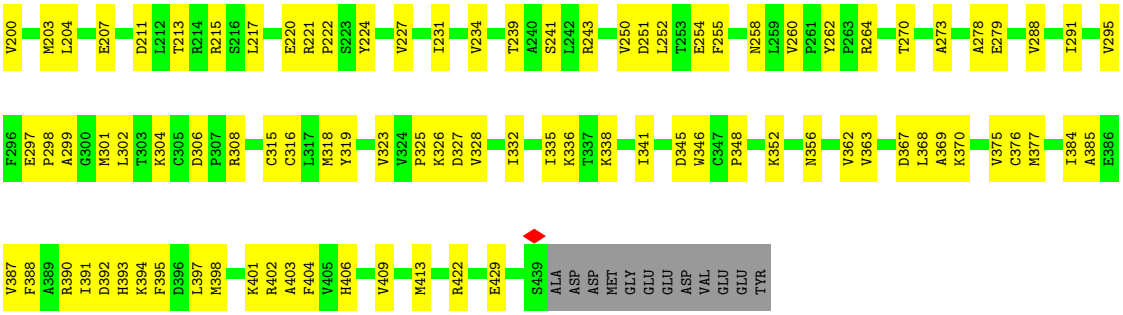
Chain GG:



• Molecule 2: Tubulin alpha chain

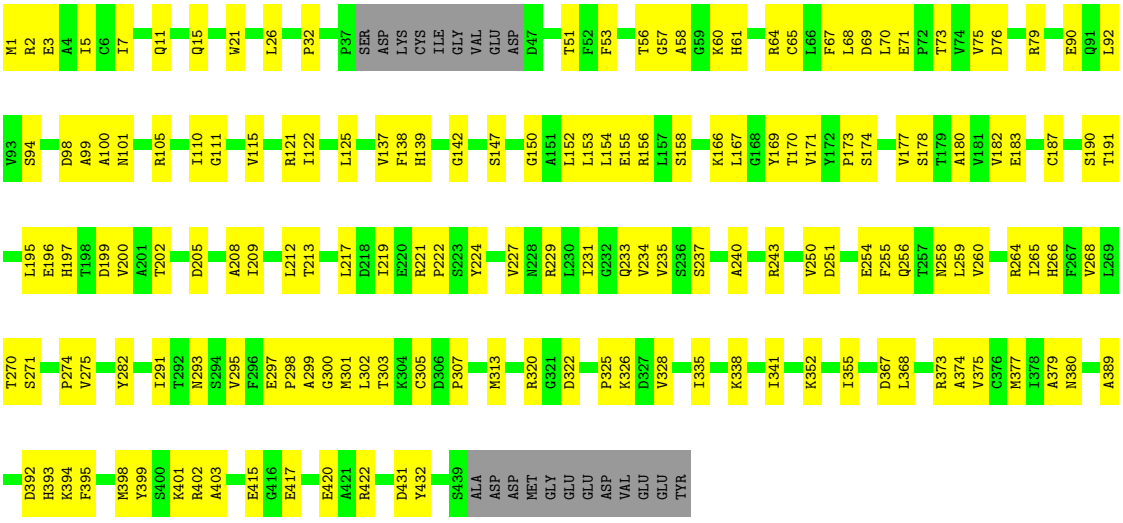
Chain GI:





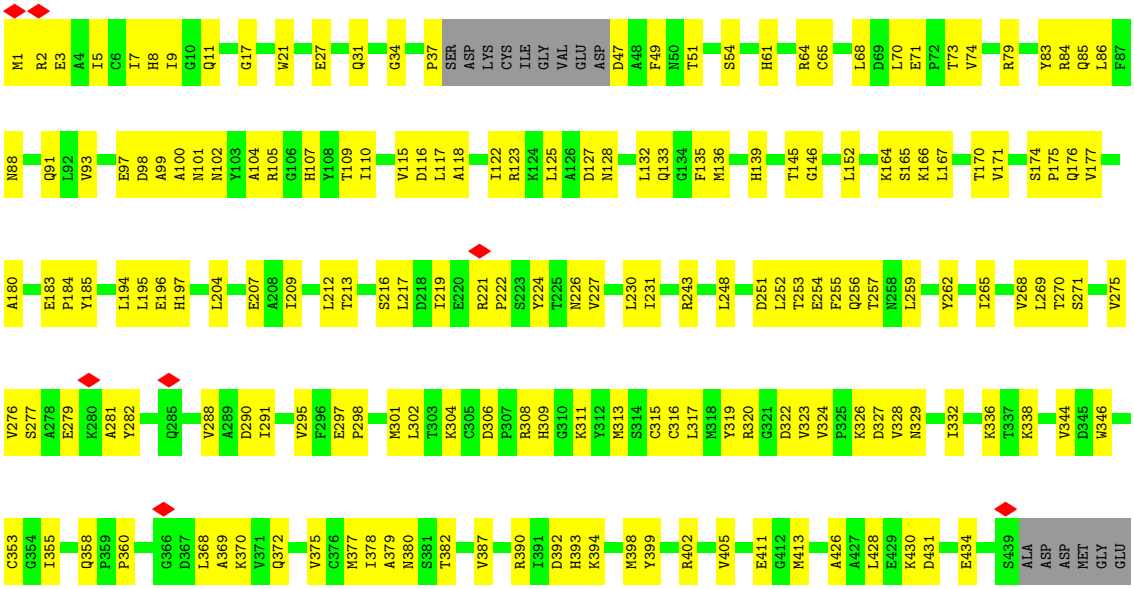
• Molecule 2: Tubulin alpha chain

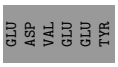
Chain GK:



• Molecule 2: Tubulin alpha chain

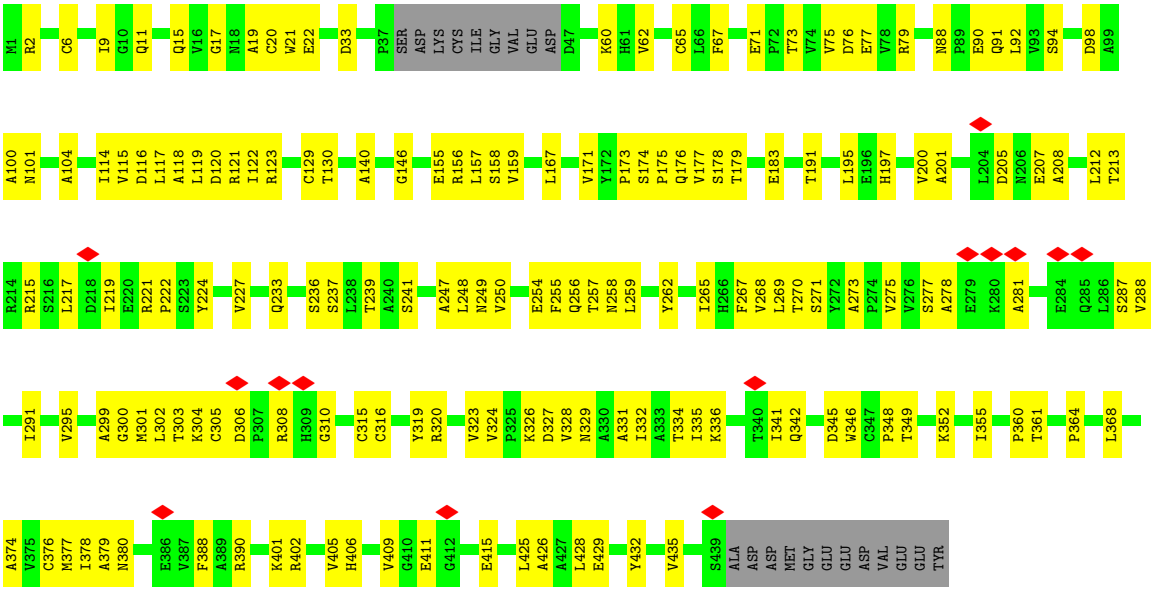
Chain HA:





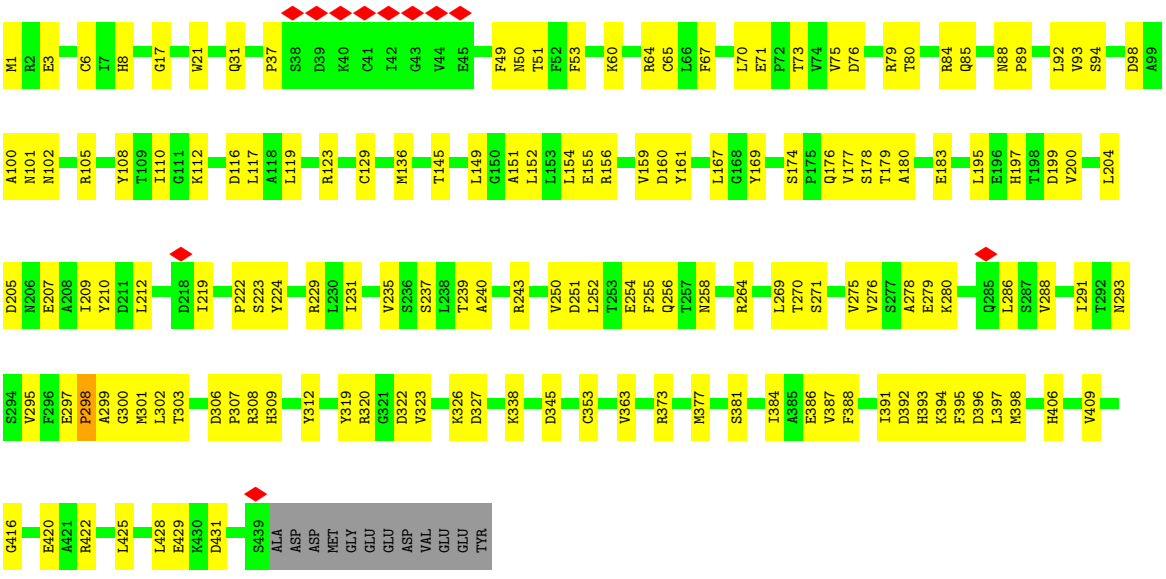
• Molecule 2: Tubulin alpha chain

Chain HC:



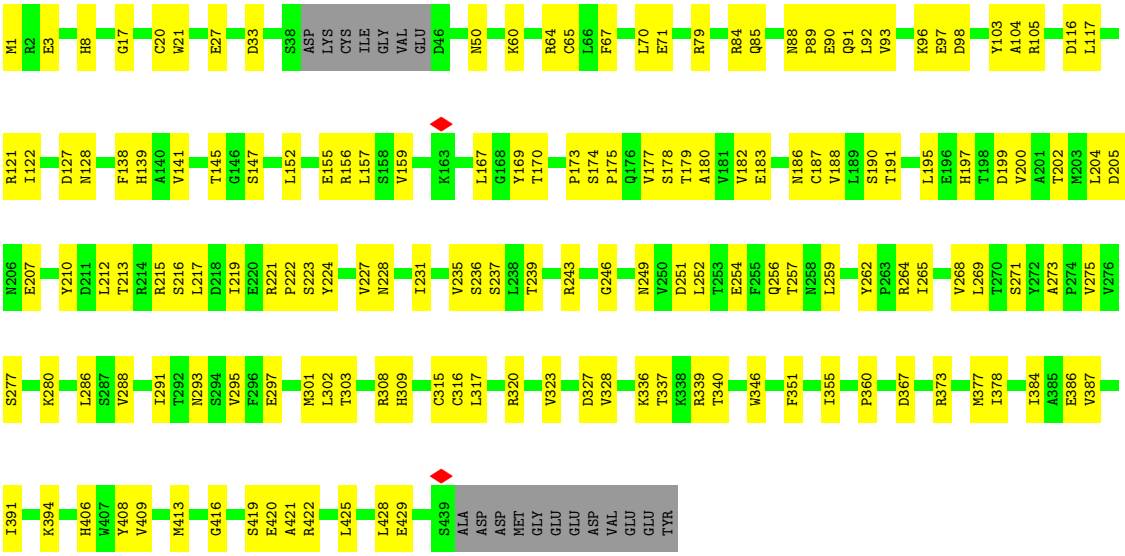
• Molecule 2: Tubulin alpha chain

Chain HE:



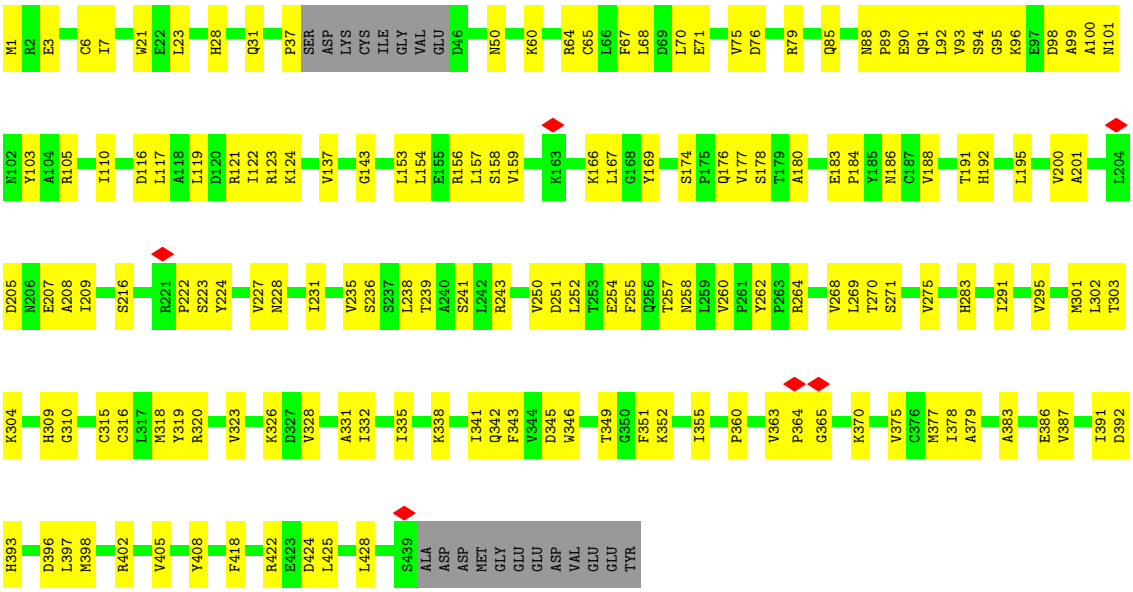
• Molecule 2: Tubulin alpha chain

Chain HG:



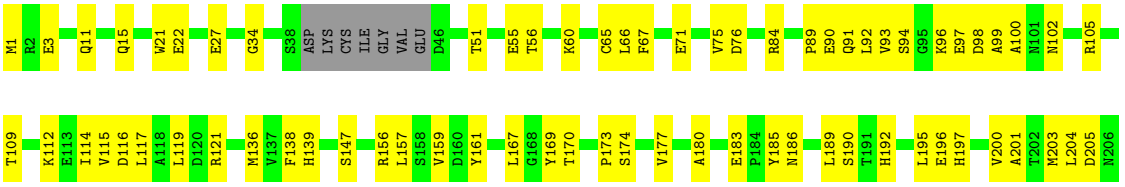
• Molecule 2: Tubulin alpha chain

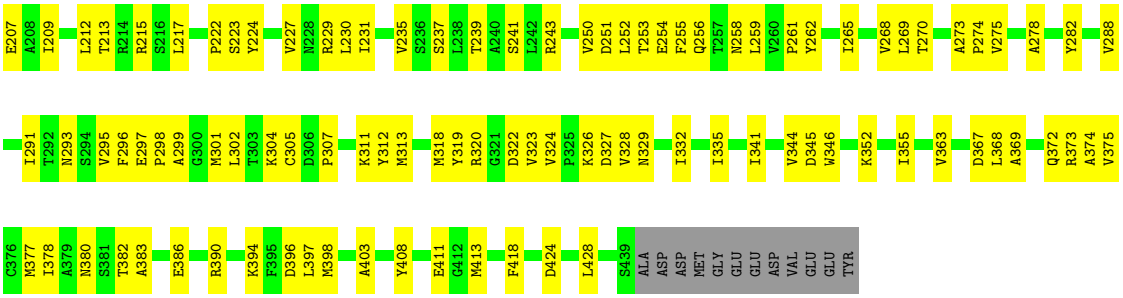
Chain HI:



• Molecule 2: Tubulin alpha chain

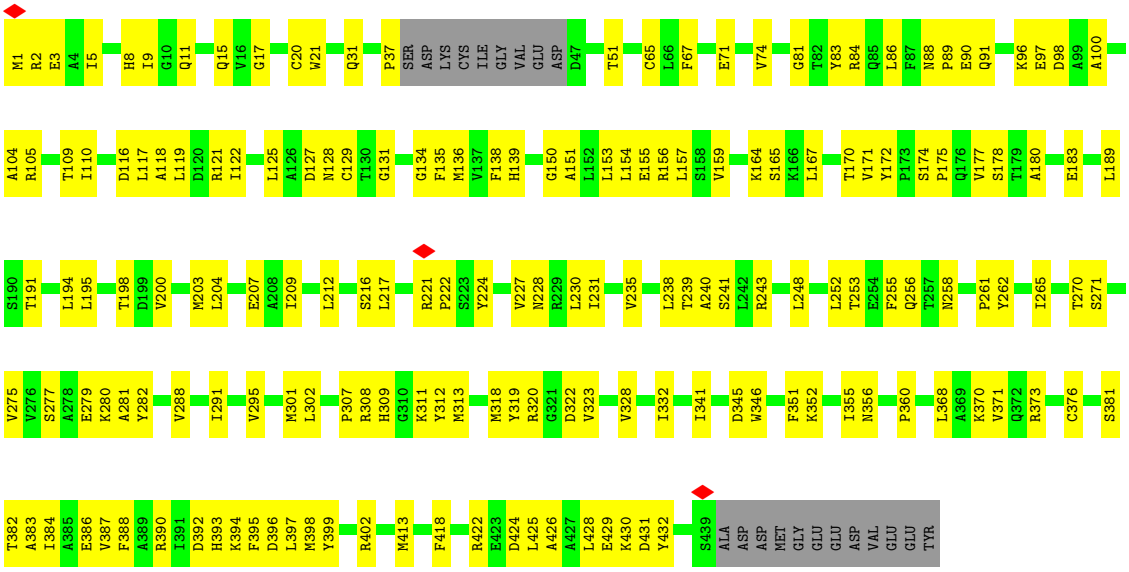
Chain HK:





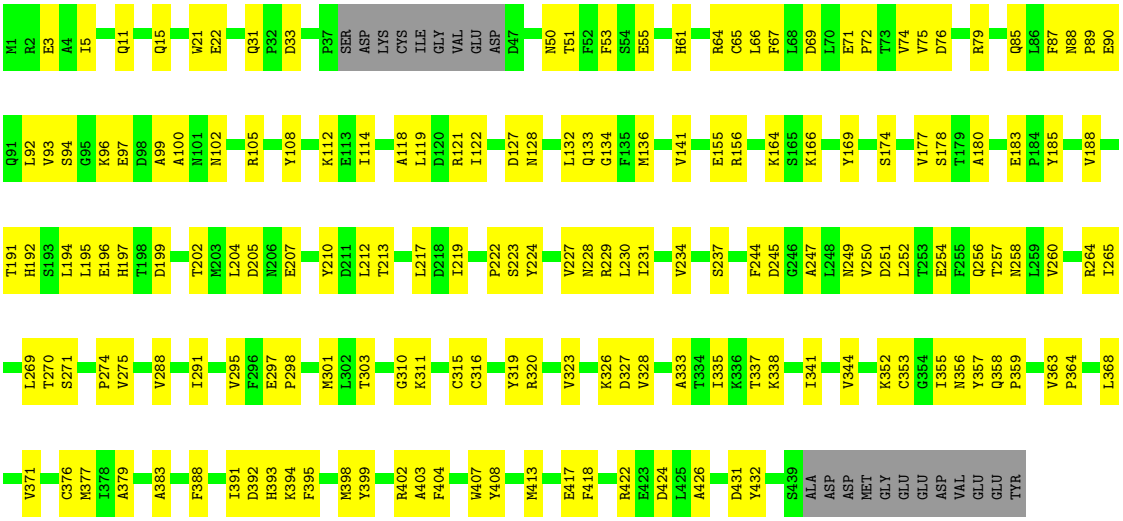
• Molecule 2: Tubulin alpha chain

Chain HM:



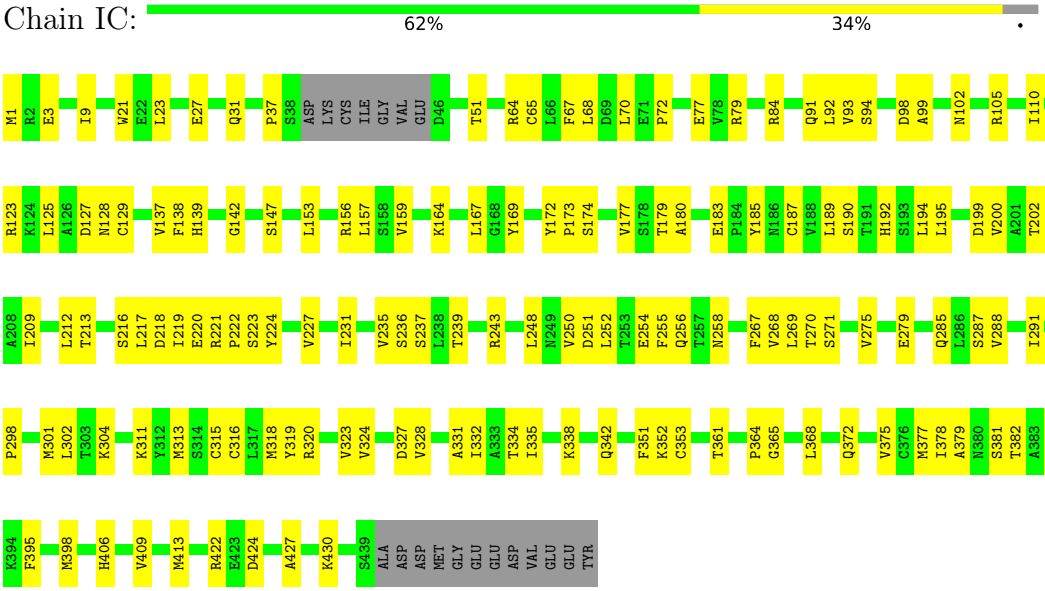
• Molecule 2: Tubulin alpha chain

Chain IA:



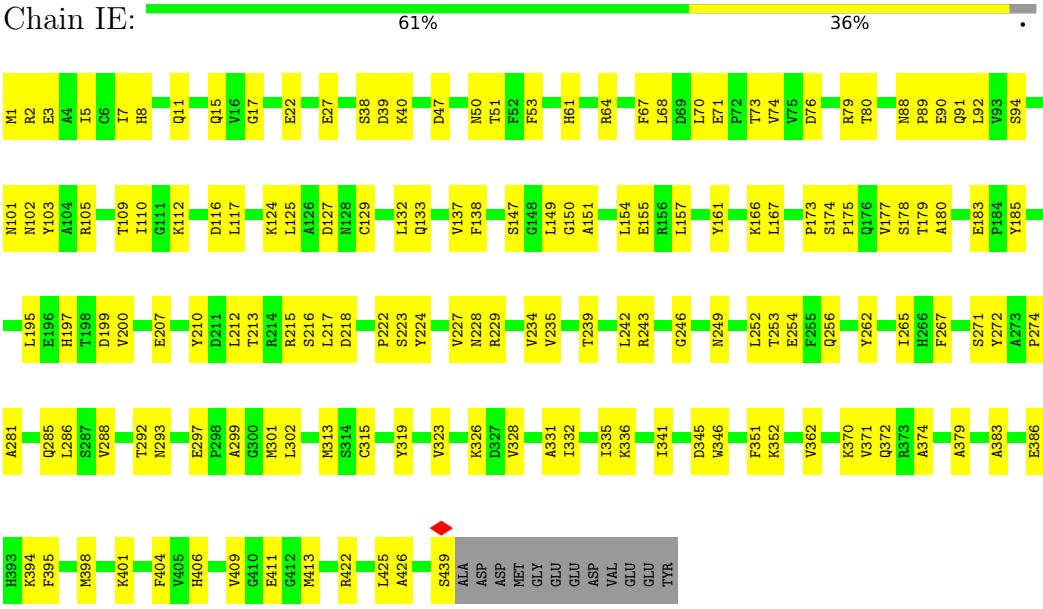
• Molecule 2: Tubulin alpha chain

Chain IC:



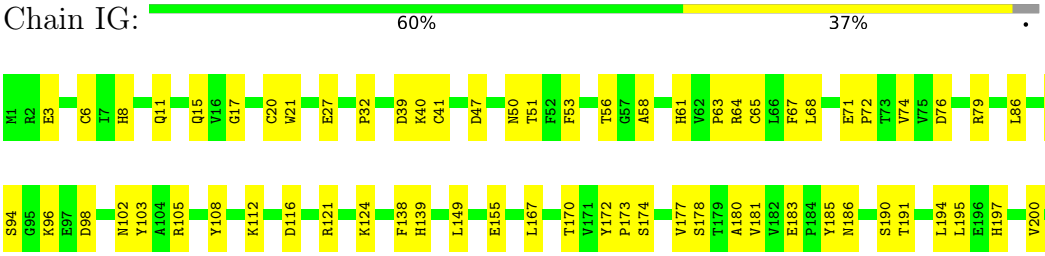
• Molecule 2: Tubulin alpha chain

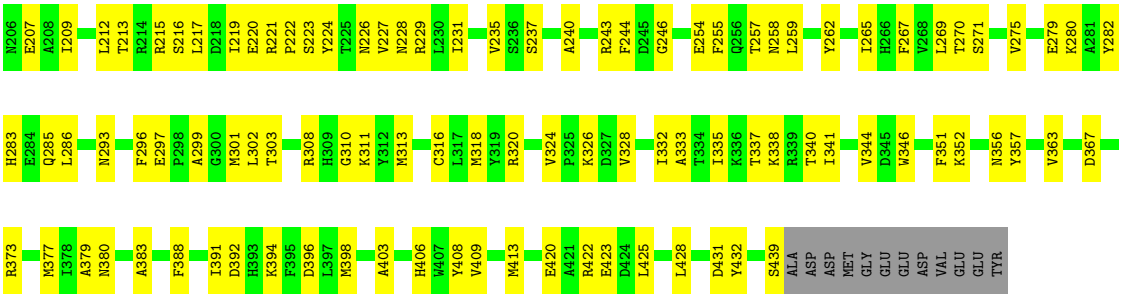
Chain IE:



• Molecule 2: Tubulin alpha chain

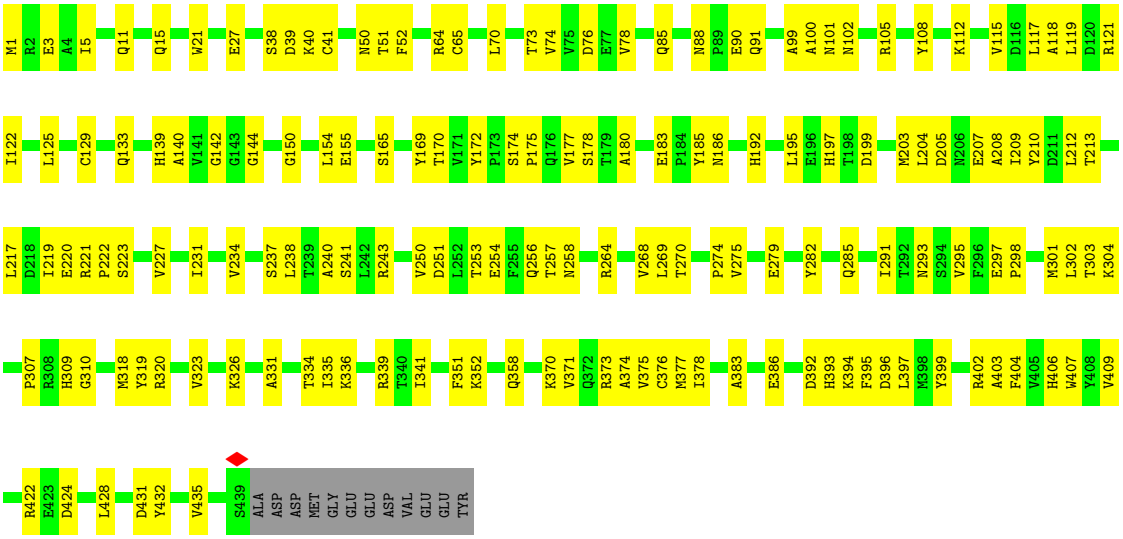
Chain IG:





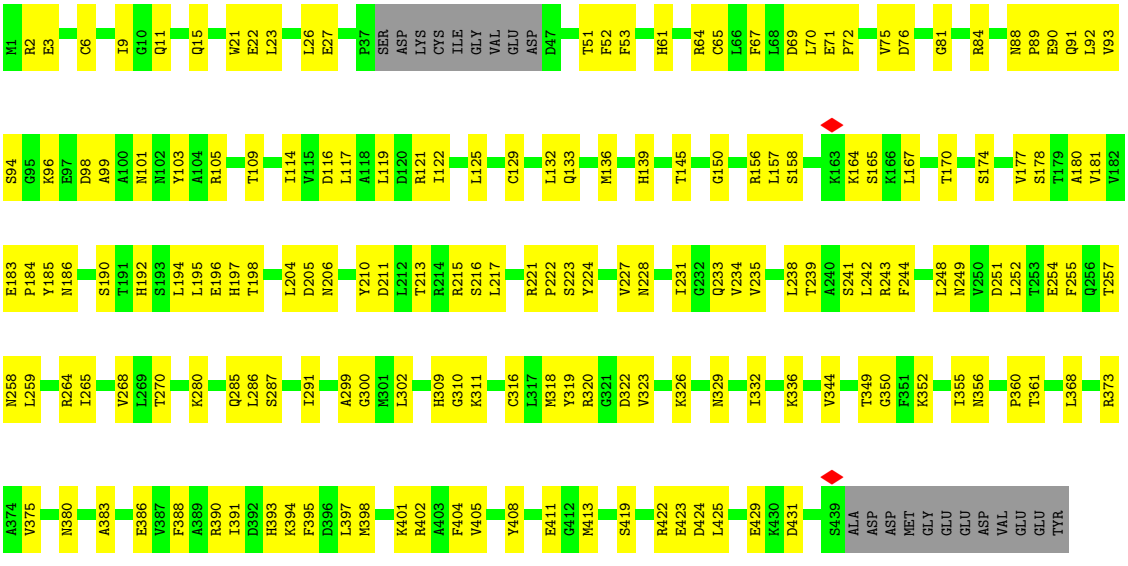
• Molecule 2: Tubulin alpha chain

Chain II:



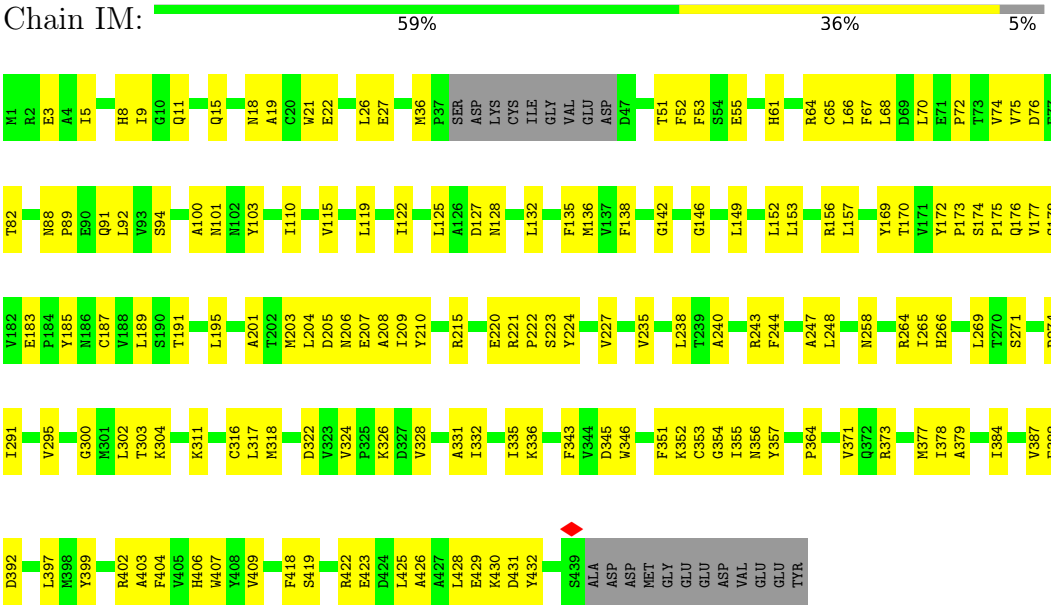
• Molecule 2: Tubulin alpha chain

Chain IK:



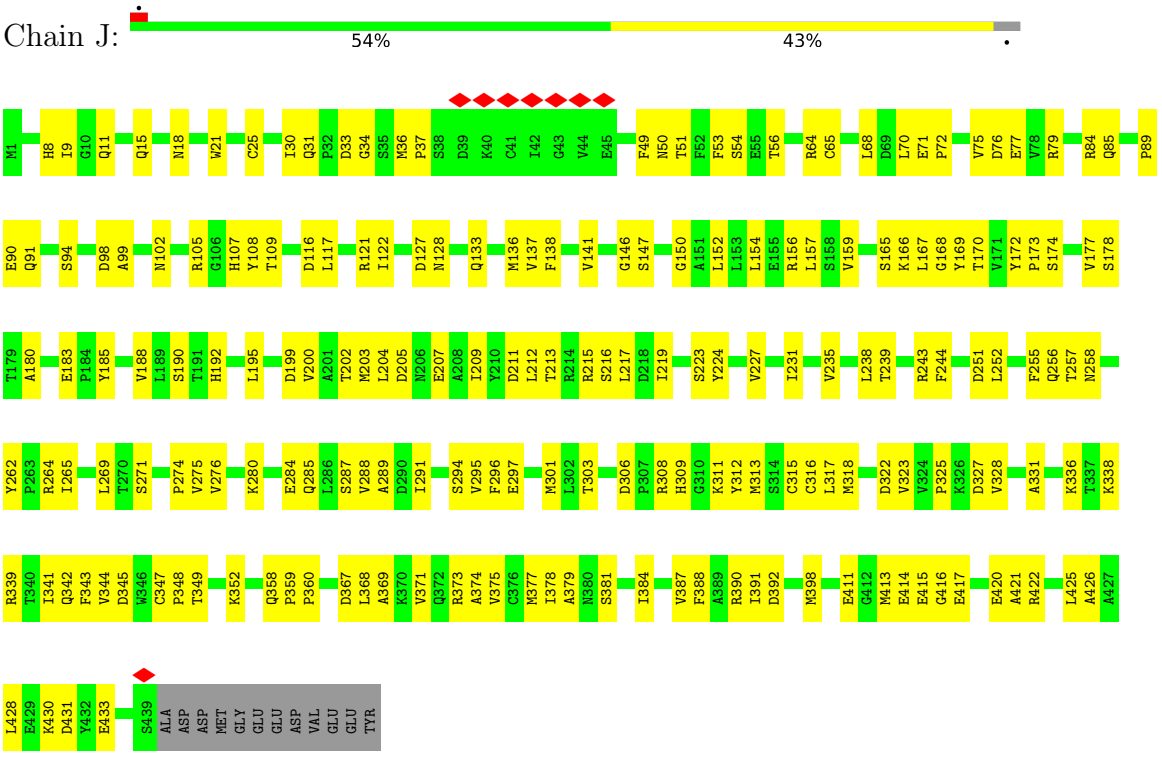
• Molecule 2: Tubulin alpha chain

Chain IM:



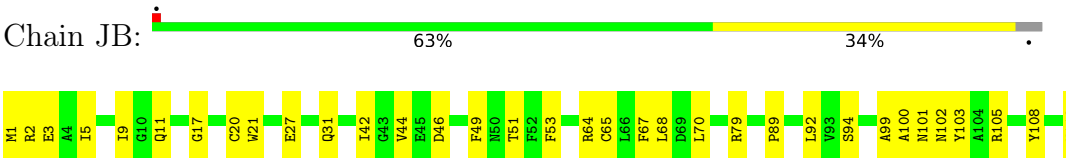
• Molecule 2: Tubulin alpha chain

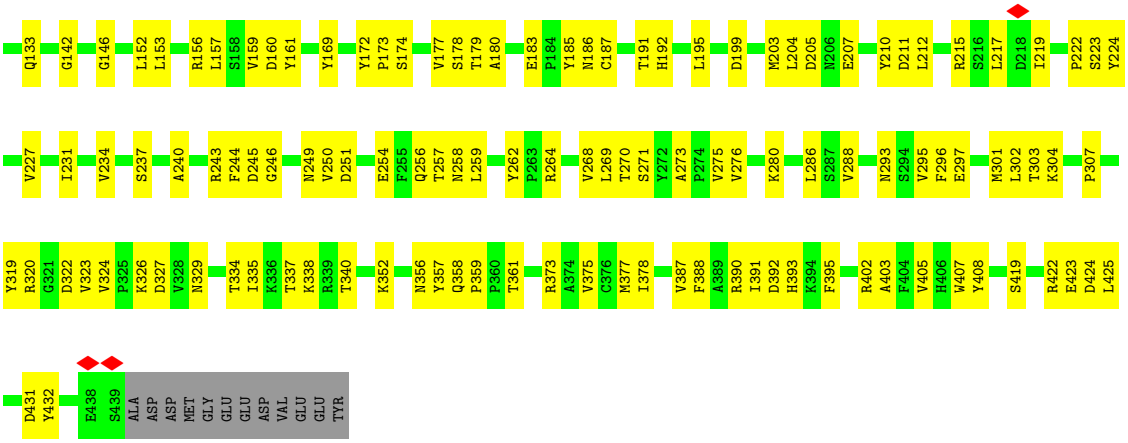
Chain J:



• Molecule 2: Tubulin alpha chain

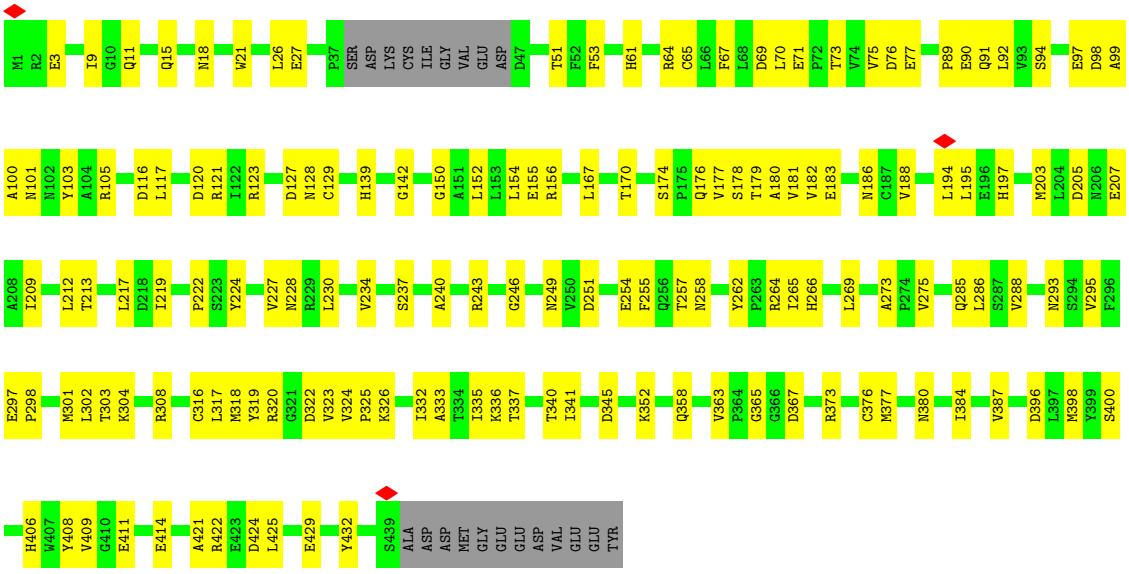
Chain JB:





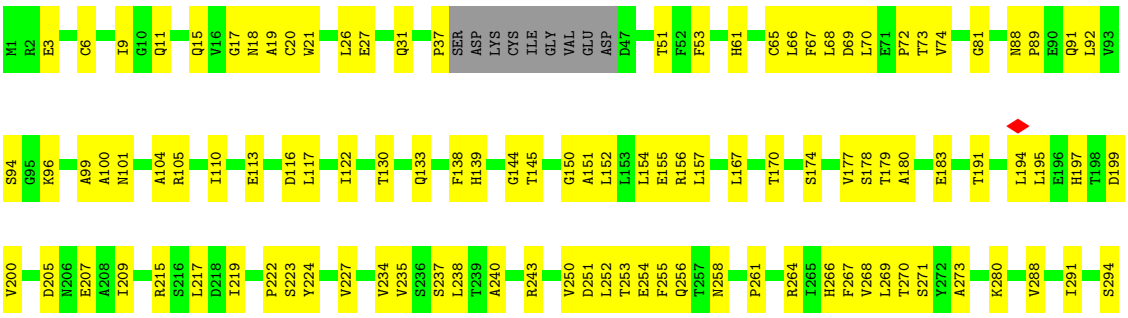
• Molecule 2: Tubulin alpha chain

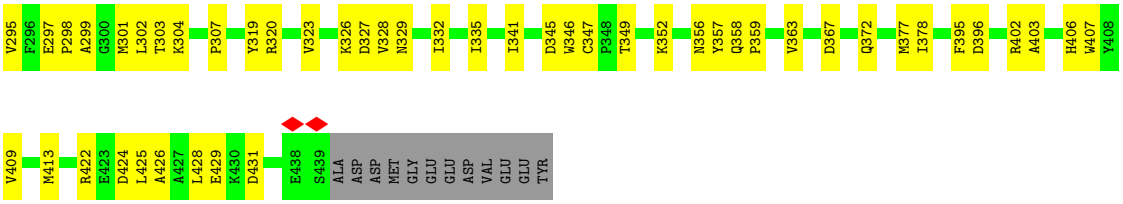
Chain JD:



• Molecule 2: Tubulin alpha chain

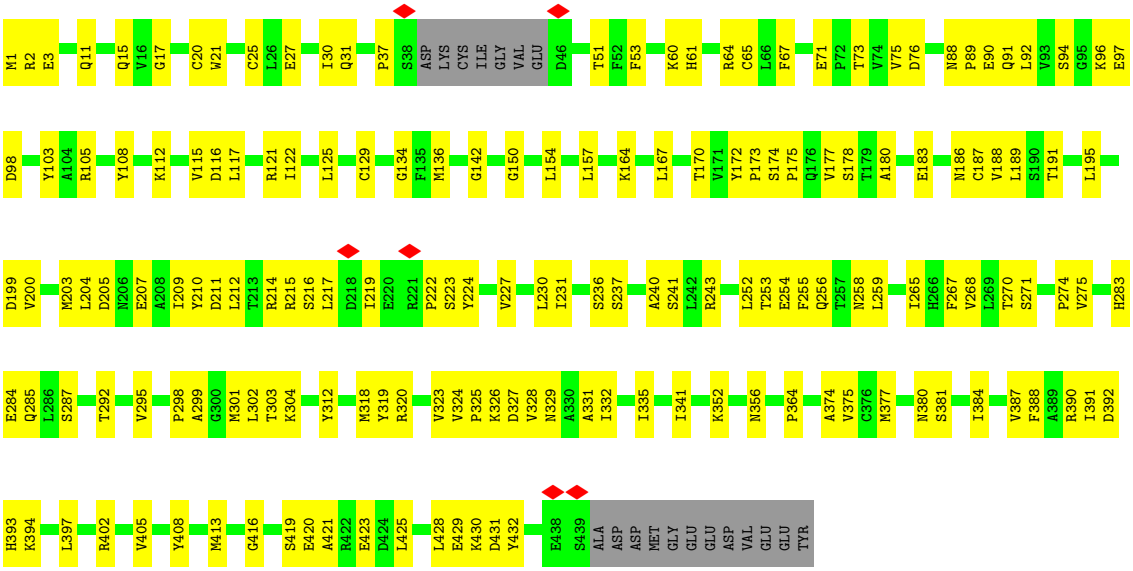
Chain JF:





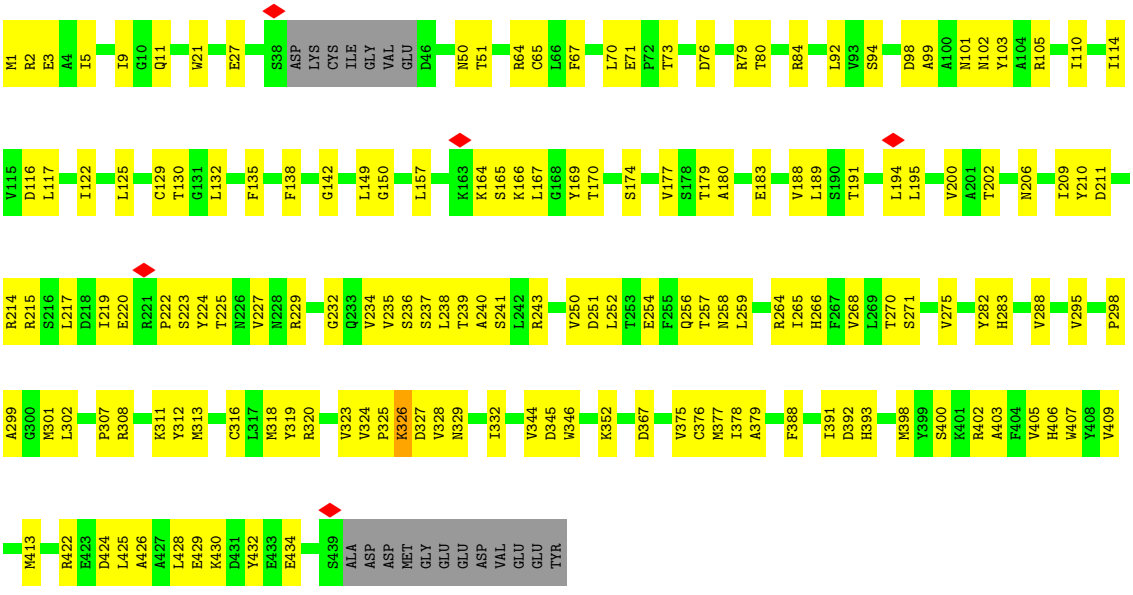
• Molecule 2: Tubulin alpha chain

Chain JH:



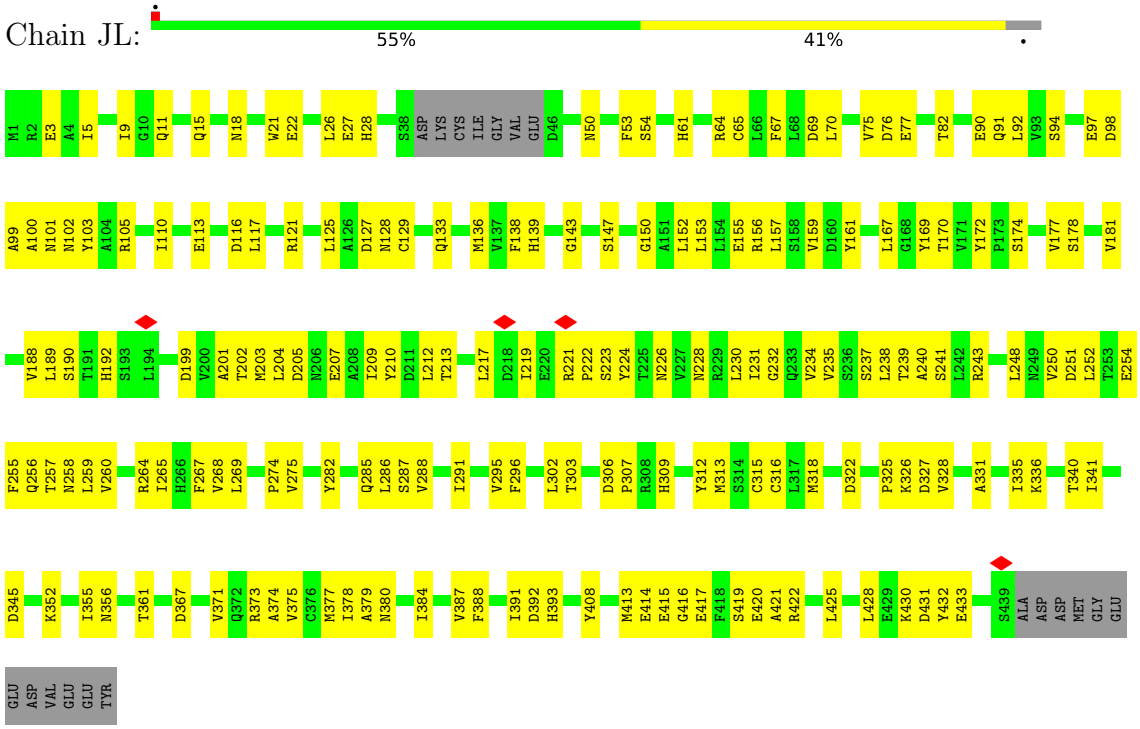
• Molecule 2: Tubulin alpha chain

Chain JJ:



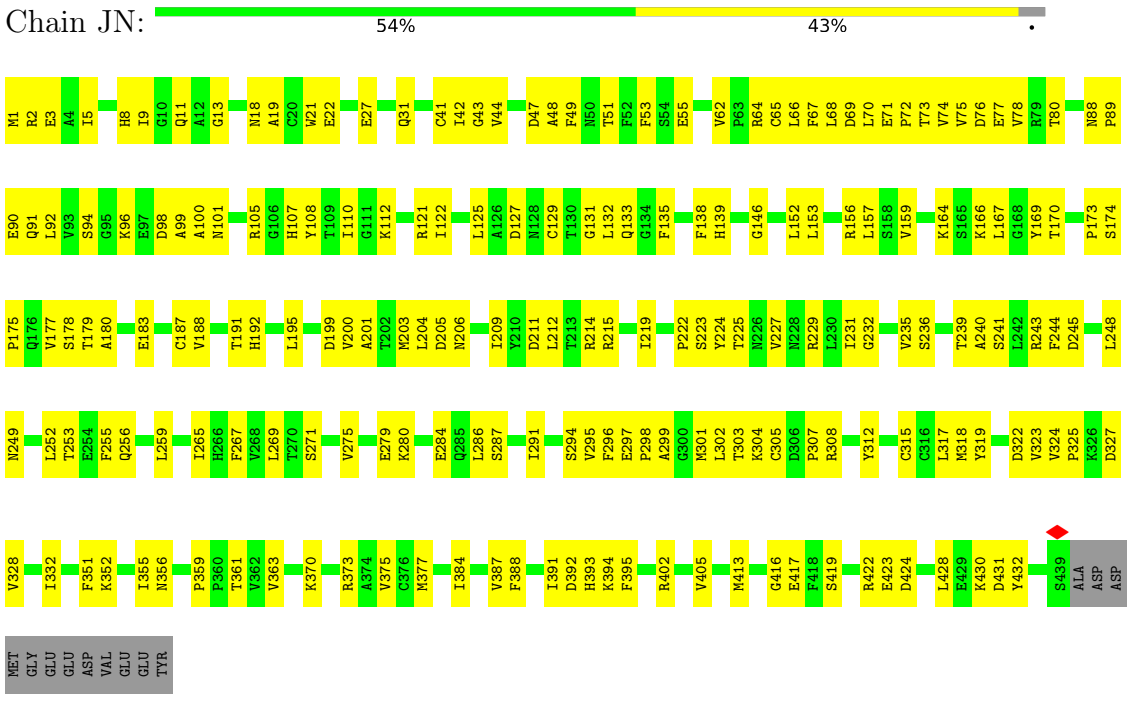
• Molecule 2: Tubulin alpha chain

Chain JL:



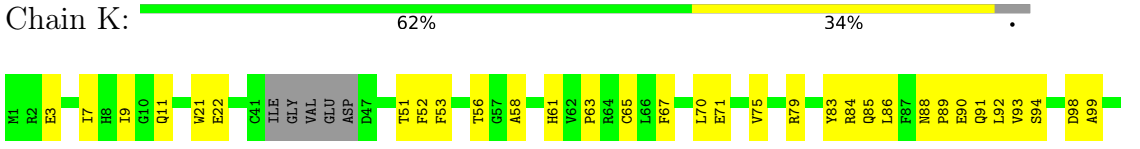
• Molecule 2: Tubulin alpha chain

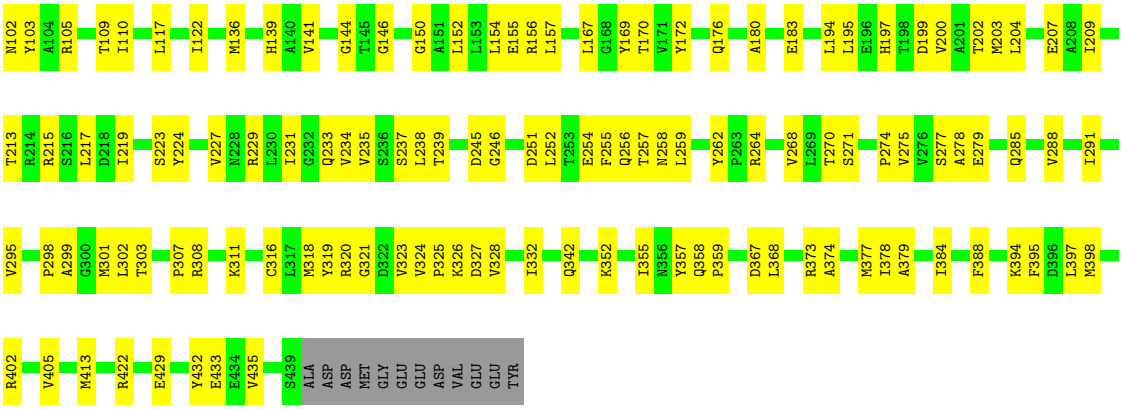
Chain JN:



• Molecule 2: Tubulin alpha chain

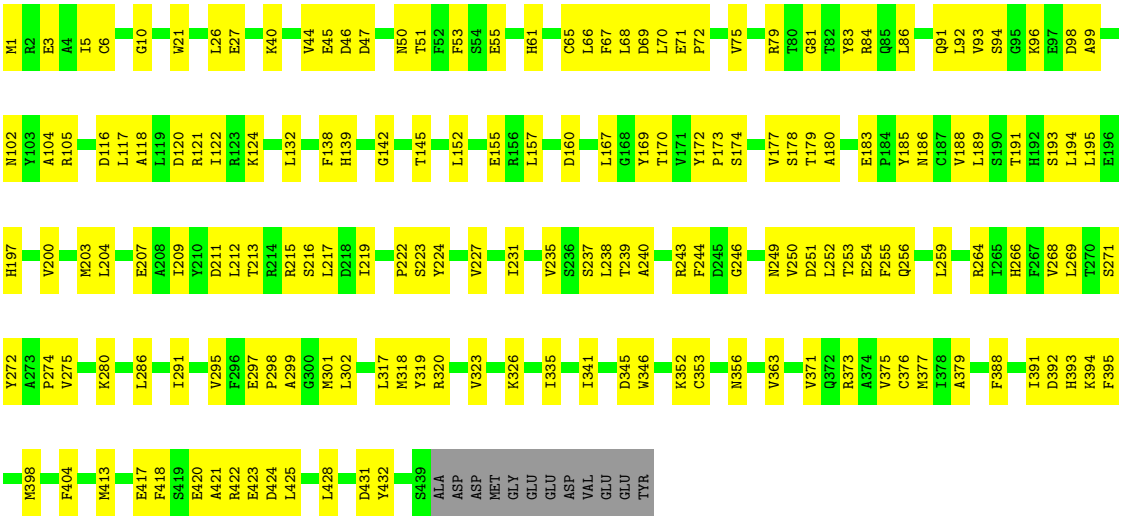
Chain K:





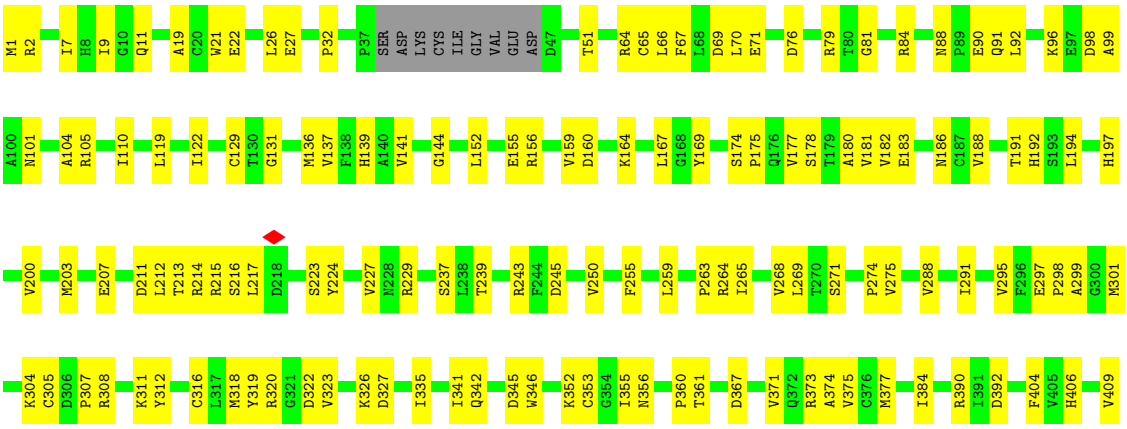
• Molecule 2: Tubulin alpha chain

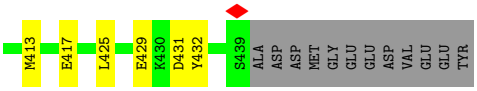
Chain KB:



• Molecule 2: Tubulin alpha chain

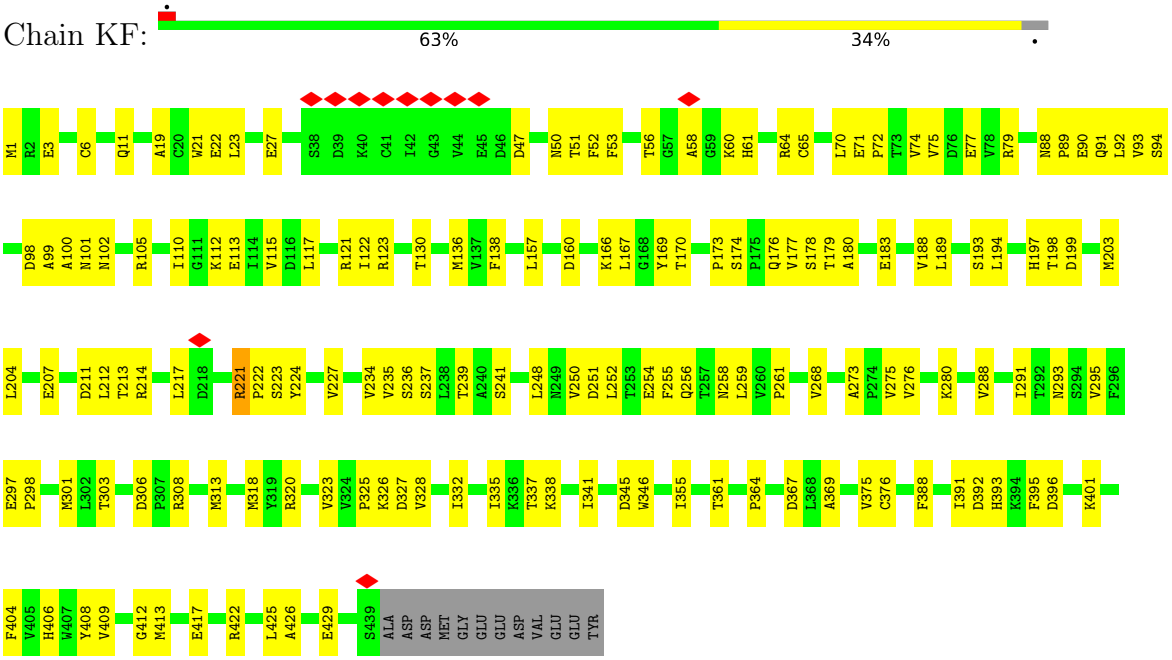
Chain KD:





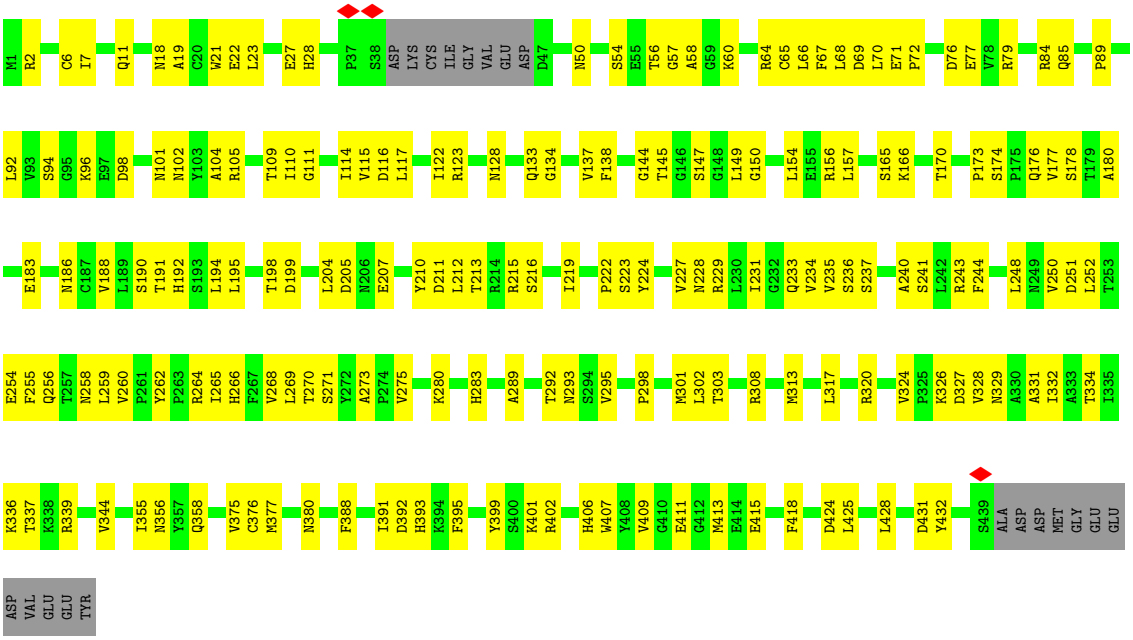
• Molecule 2: Tubulin alpha chain

Chain KF:



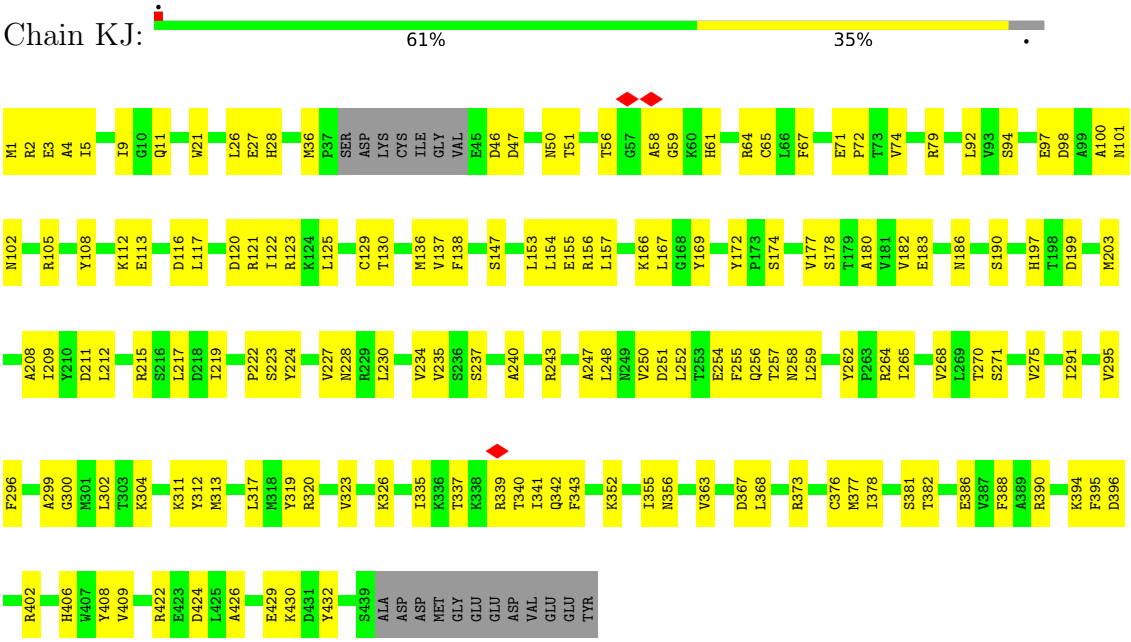
• Molecule 2: Tubulin alpha chain

Chain KH:



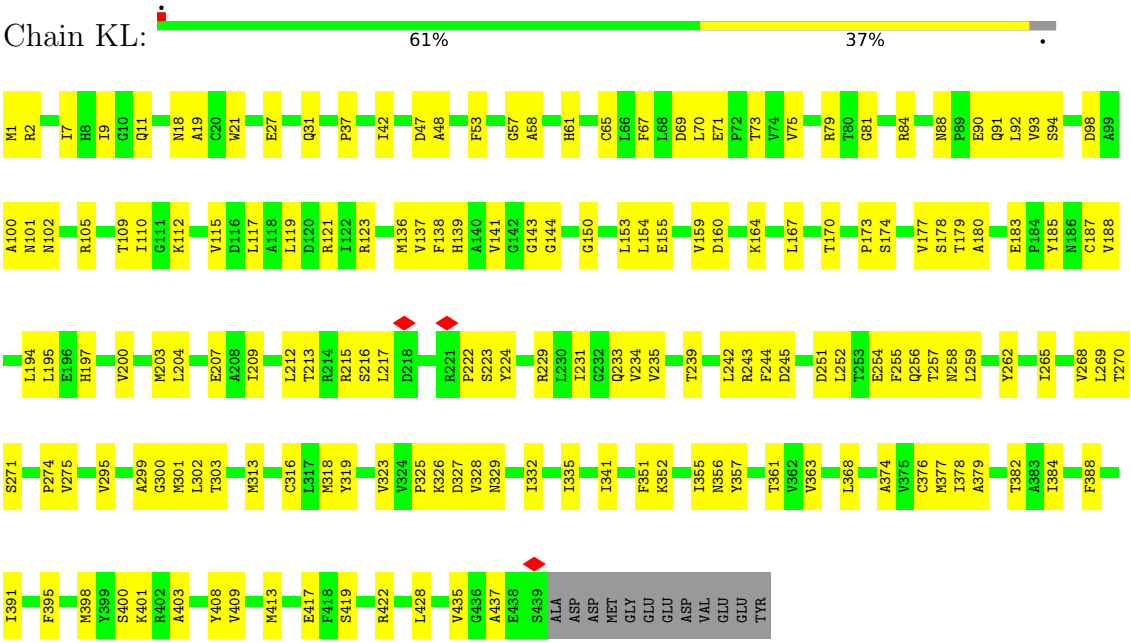
• Molecule 2: Tubulin alpha chain

Chain KJ:



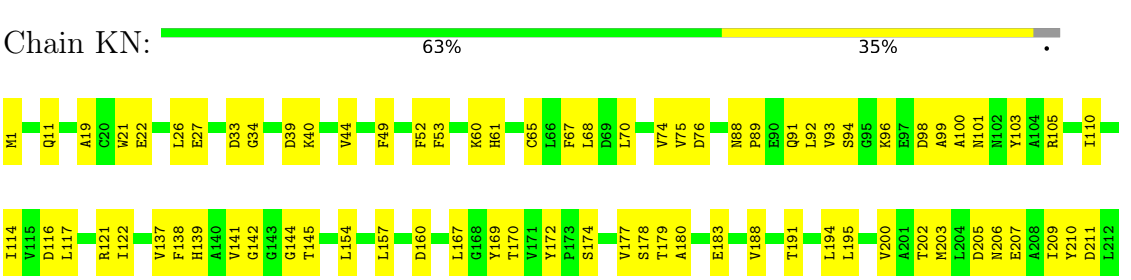
• Molecule 2: Tubulin alpha chain

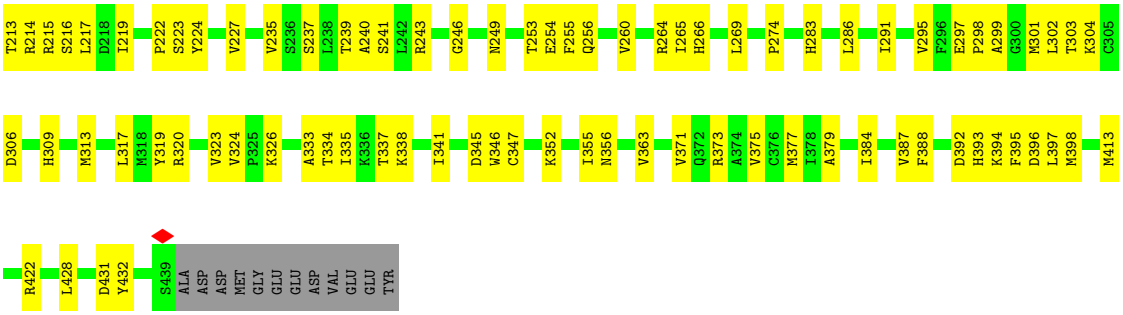
Chain KL:



• Molecule 2: Tubulin alpha chain

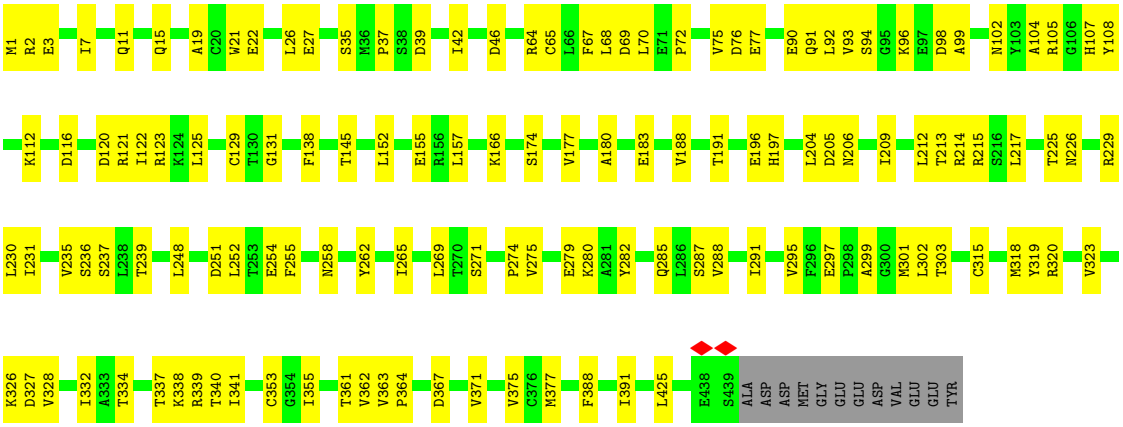
Chain KN:





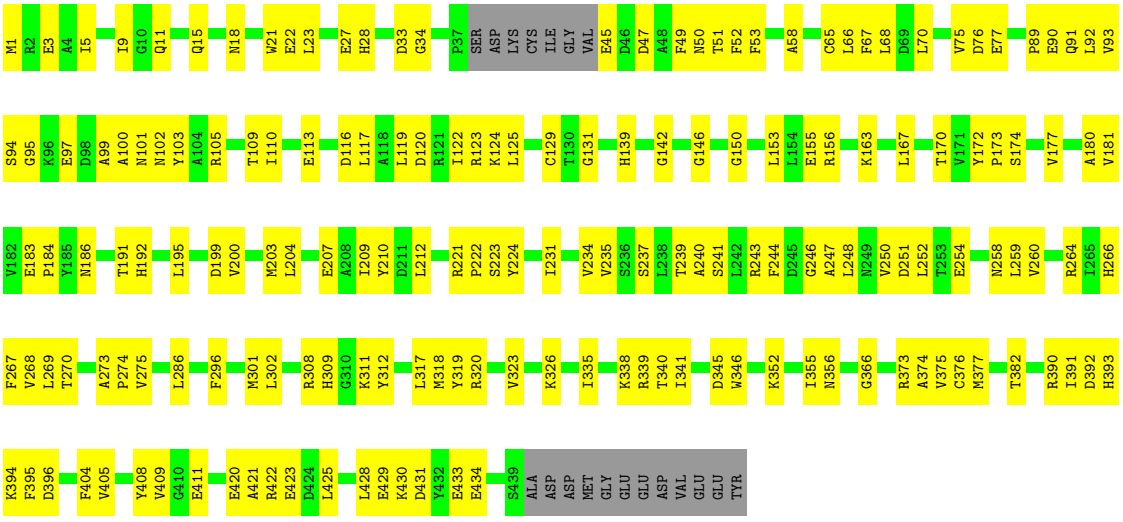
• Molecule 2: Tubulin alpha chain

Chain L:



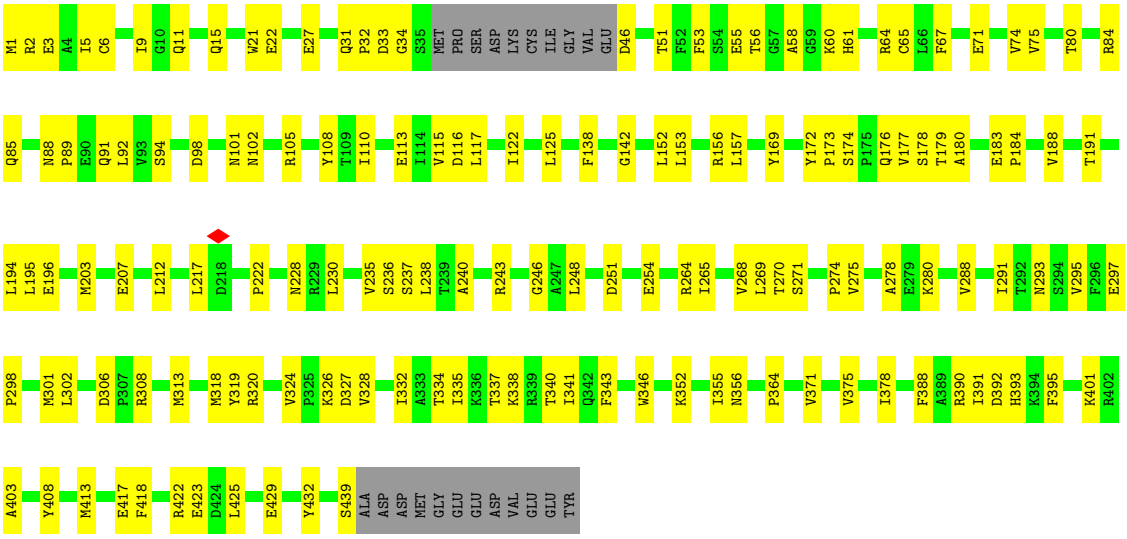
• Molecule 2: Tubulin alpha chain

Chain LB:



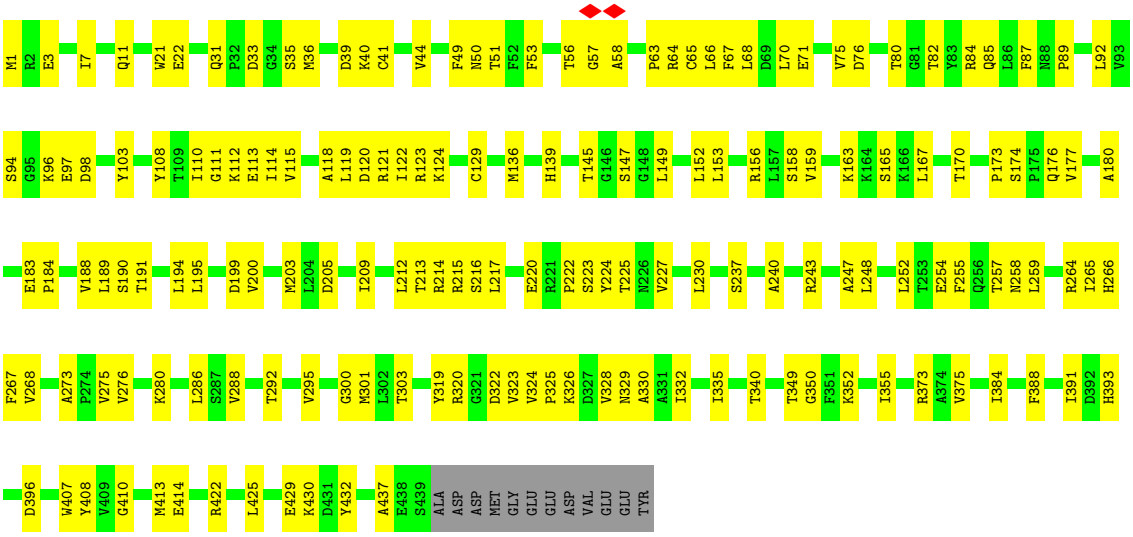
• Molecule 2: Tubulin alpha chain

Chain LD:



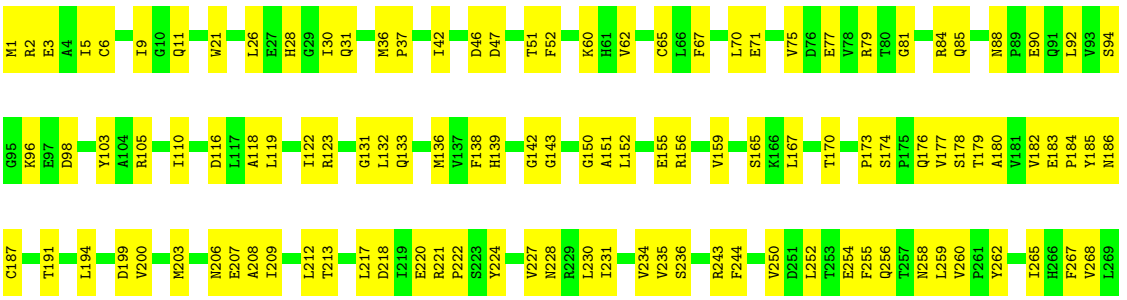
• Molecule 2: Tubulin alpha chain

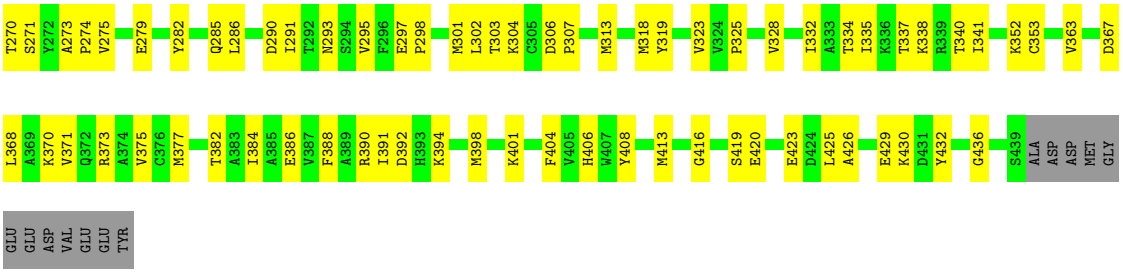
Chain LF:



• Molecule 2: Tubulin alpha chain

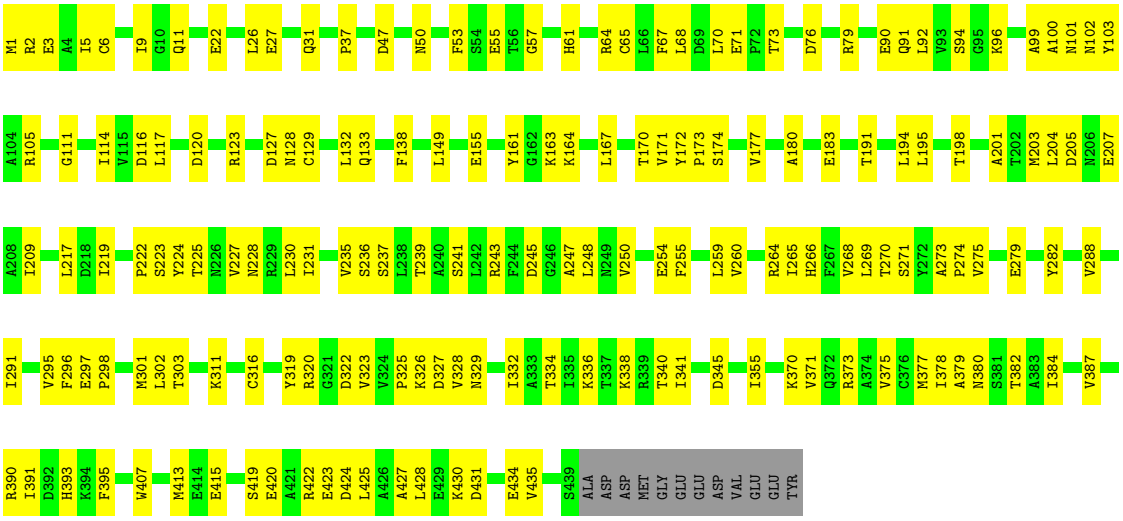
Chain LH:





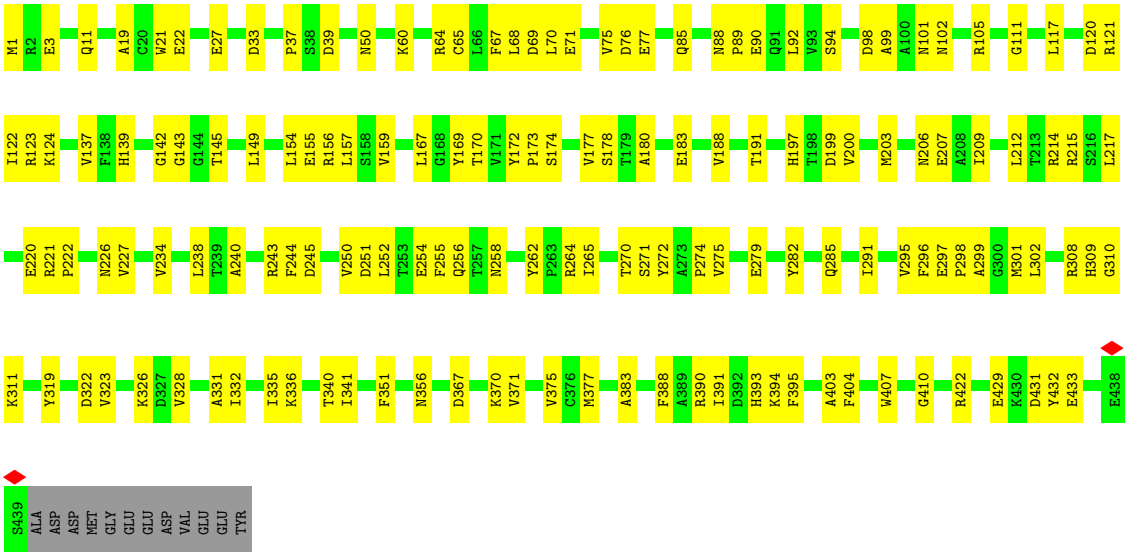
• Molecule 2: Tubulin alpha chain

Chain LJ:



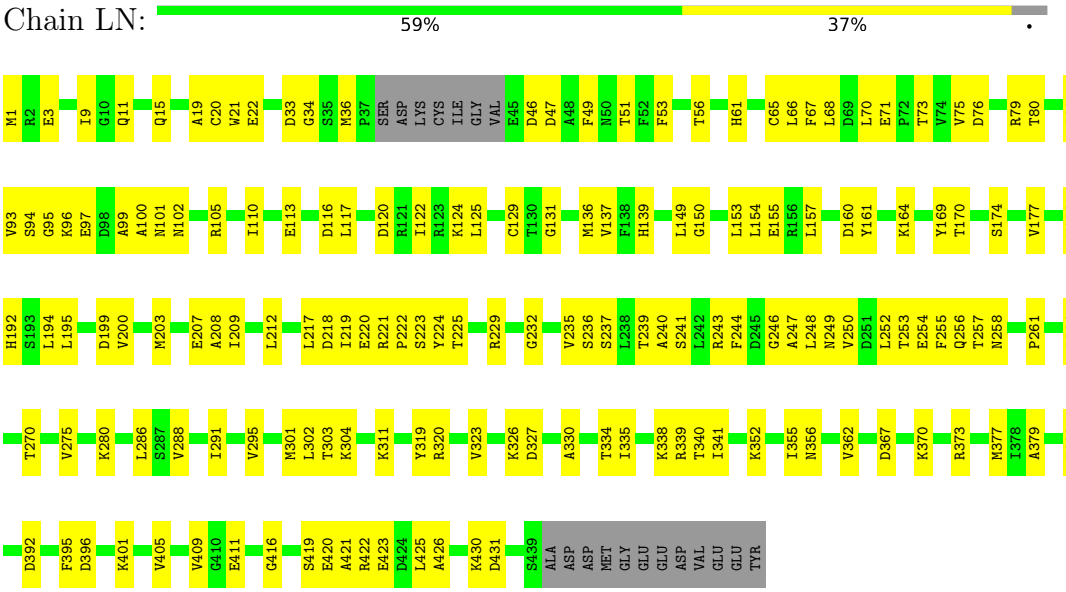
• Molecule 2: Tubulin alpha chain

Chain LL:



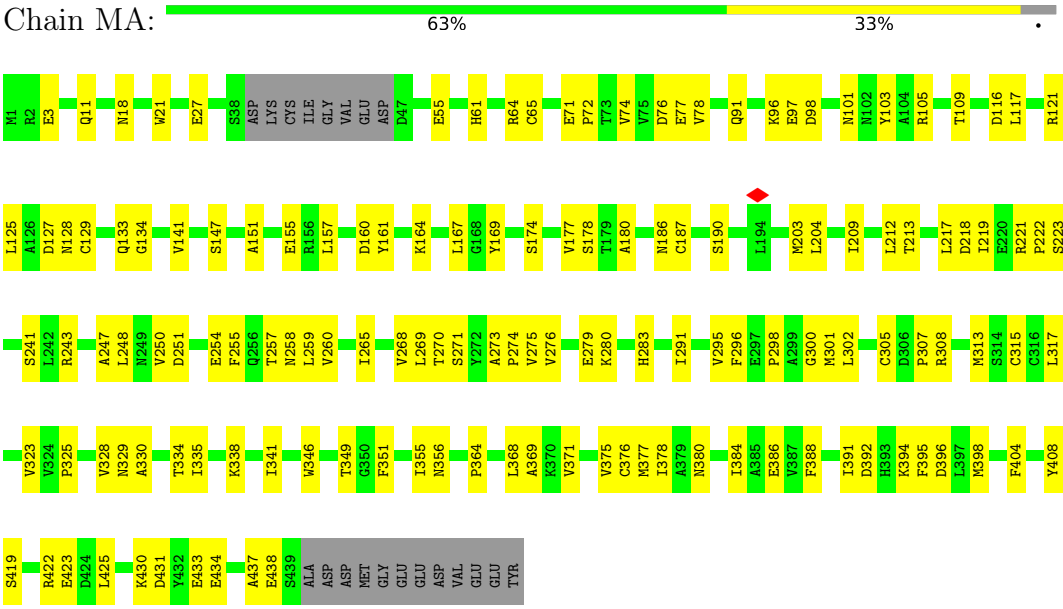
• Molecule 2: Tubulin alpha chain

Chain LN:



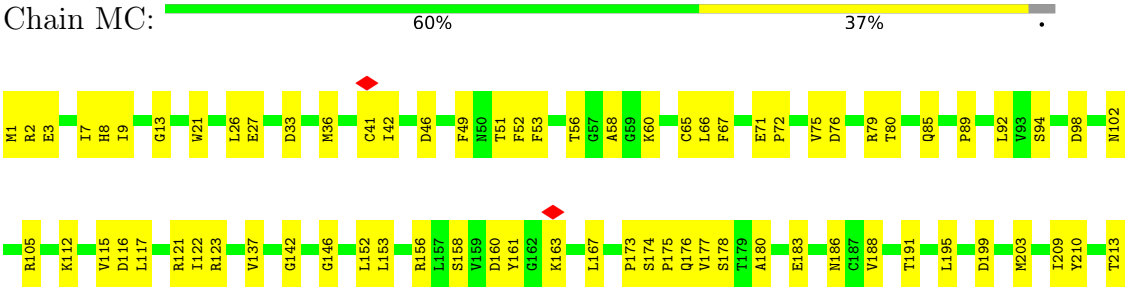
• Molecule 2: Tubulin alpha chain

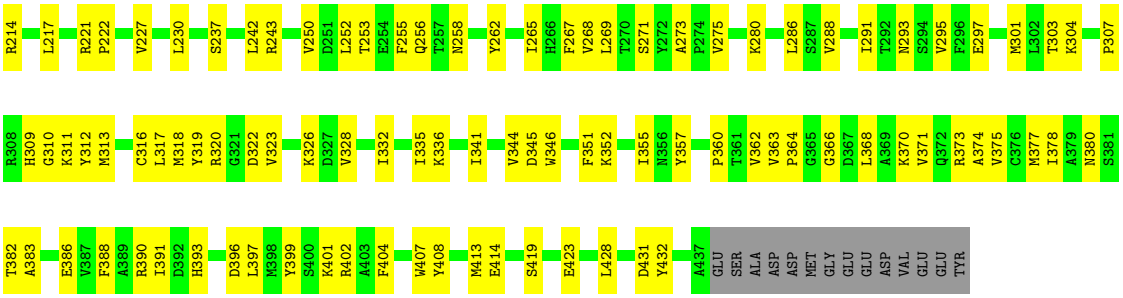
Chain MA:



• Molecule 2: Tubulin alpha chain

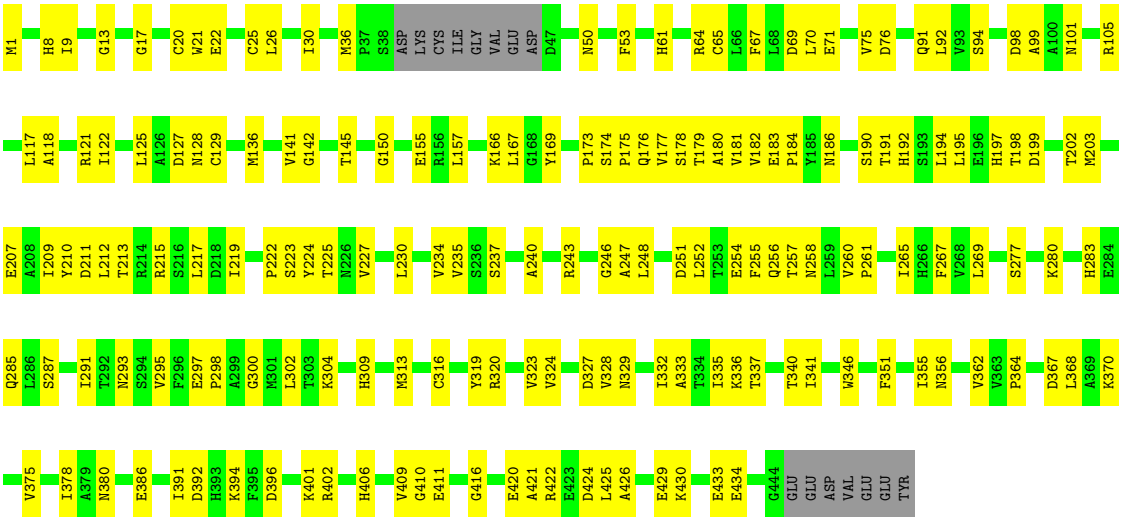
Chain MC:





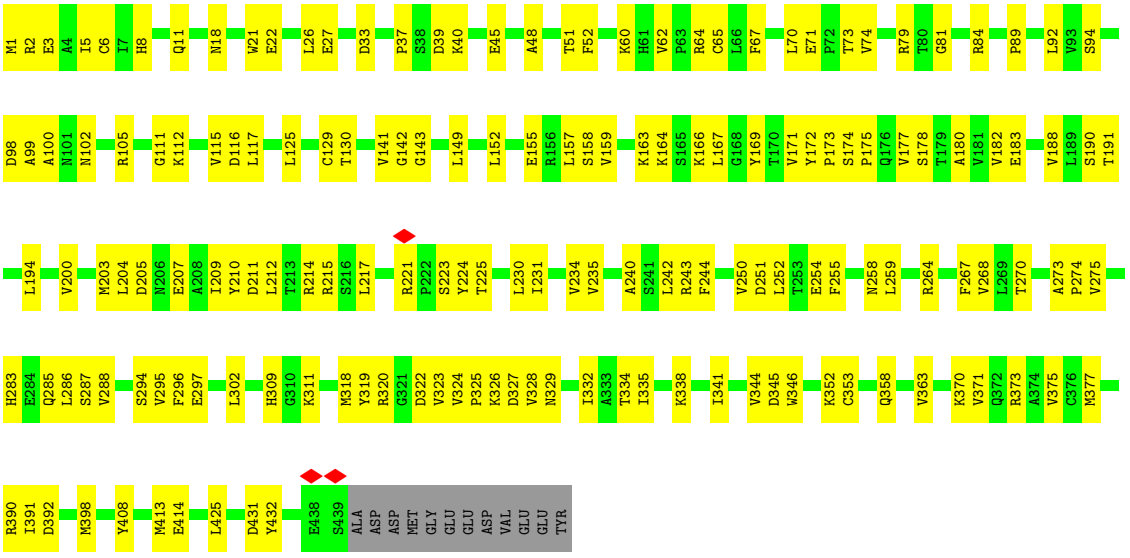
• Molecule 2: Tubulin alpha chain

Chain ME:



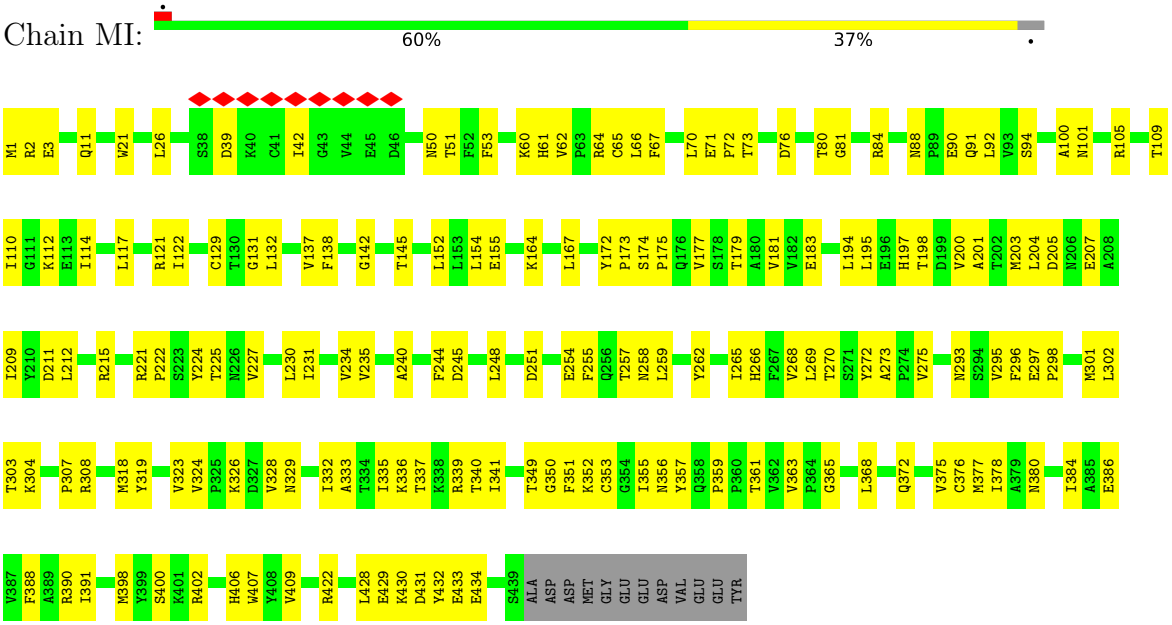
• Molecule 2: Tubulin alpha chain

Chain MG:



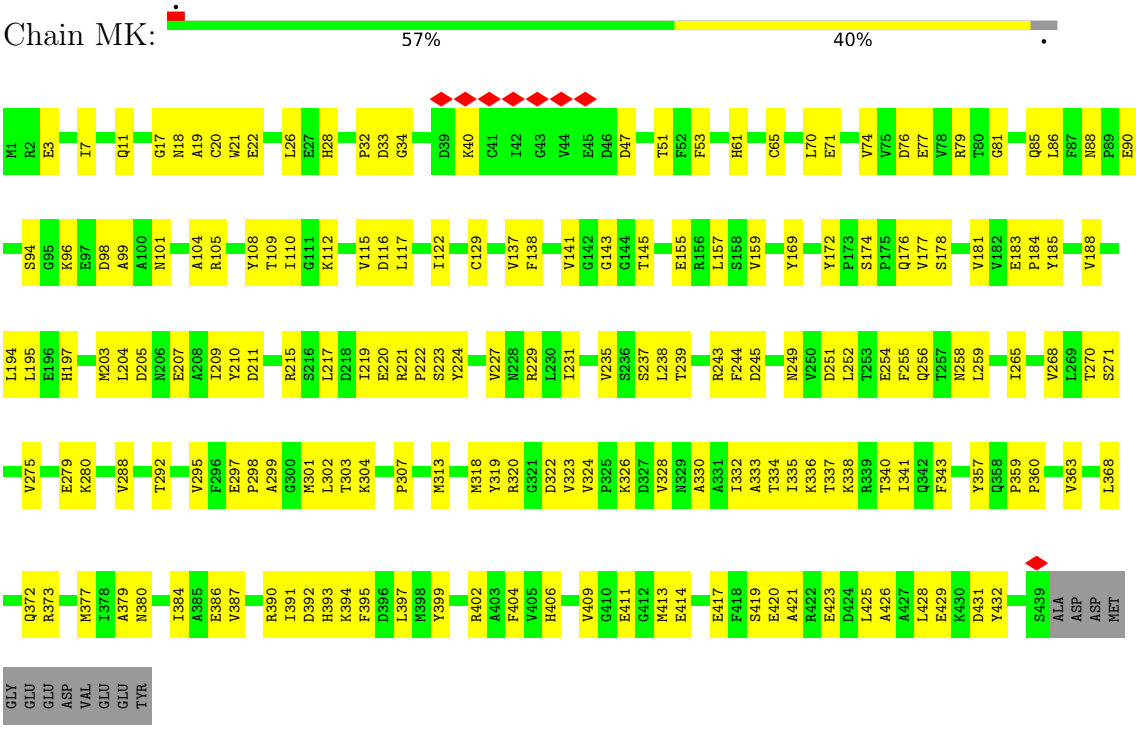
• Molecule 2: Tubulin alpha chain

Chain MI:



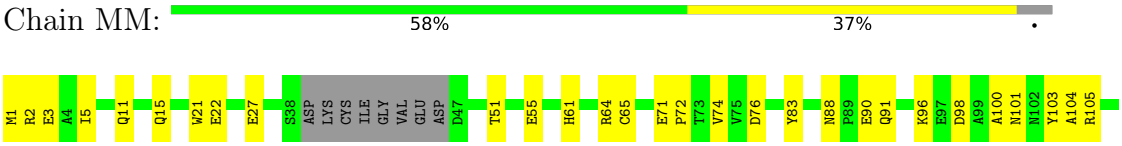
• Molecule 2: Tubulin alpha chain

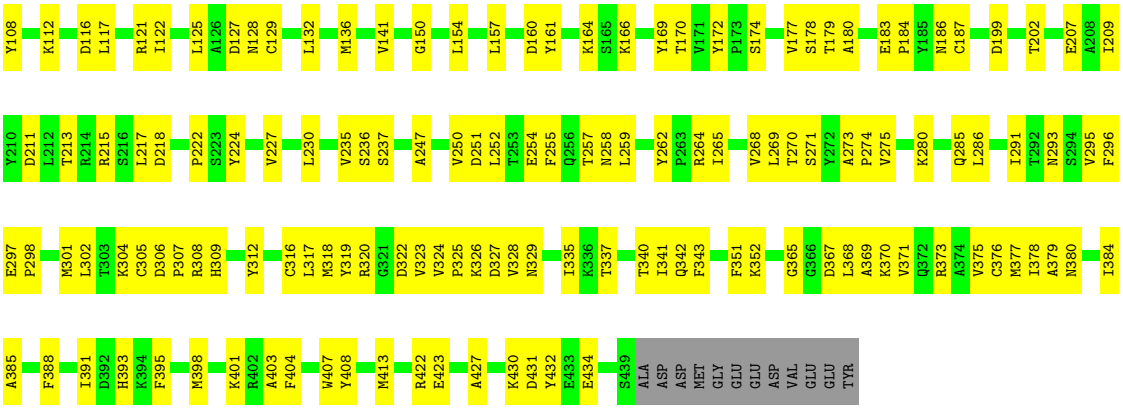
Chain MK:



• Molecule 2: Tubulin alpha chain

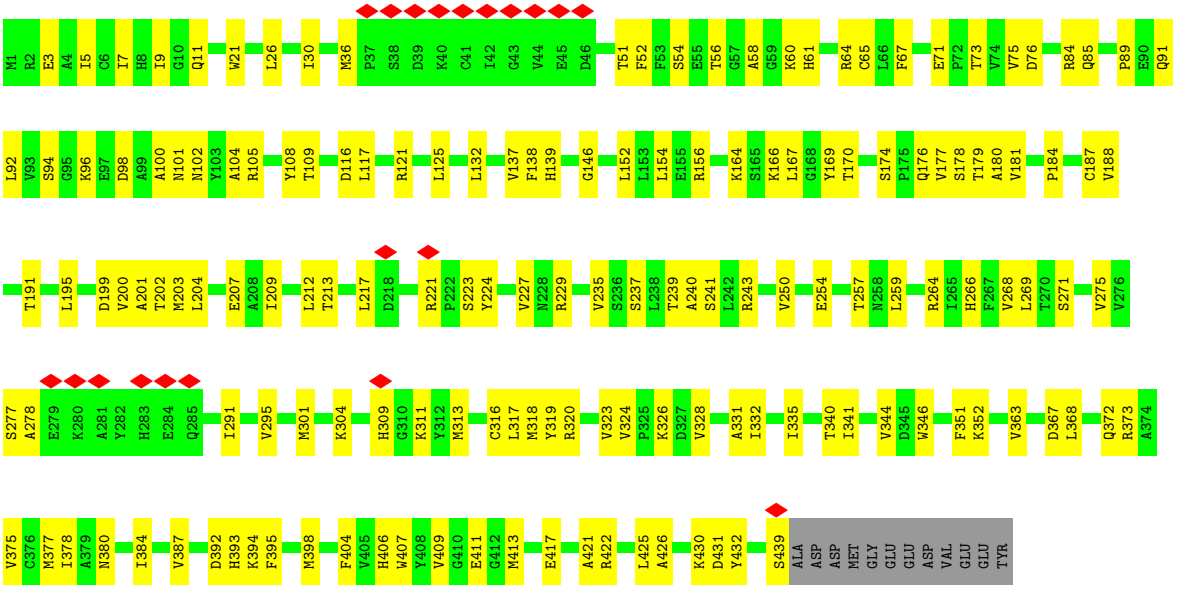
Chain MM:





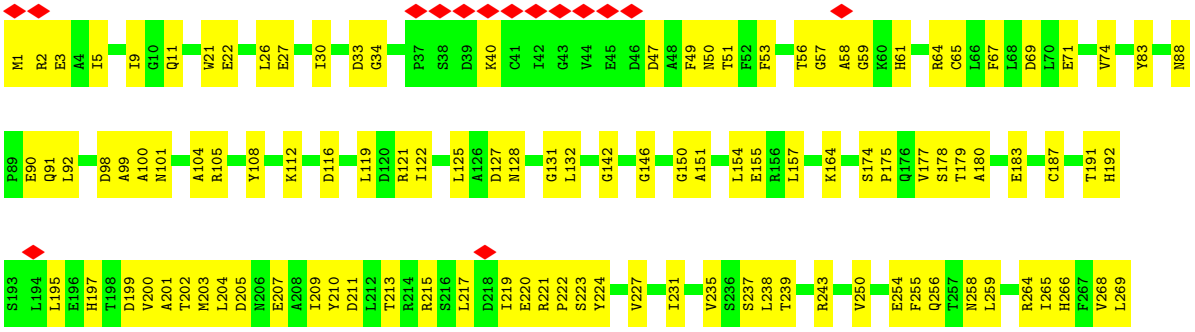
• Molecule 2: Tubulin alpha chain

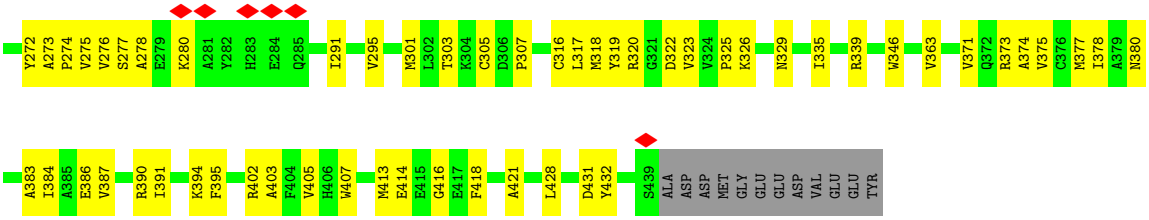
Chain NA:



• Molecule 2: Tubulin alpha chain

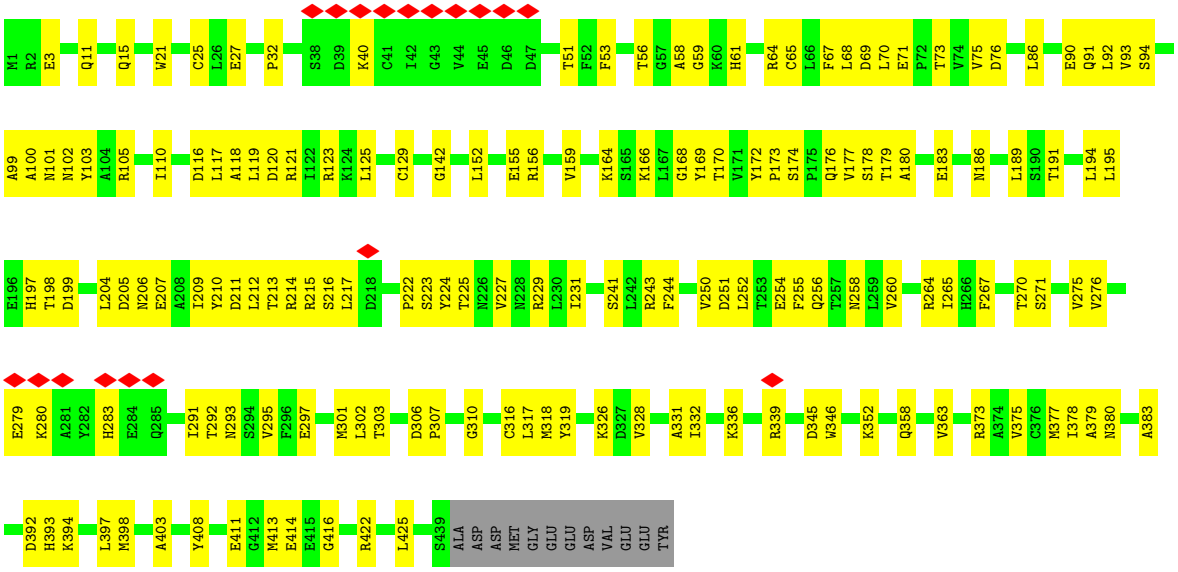
Chain NC:





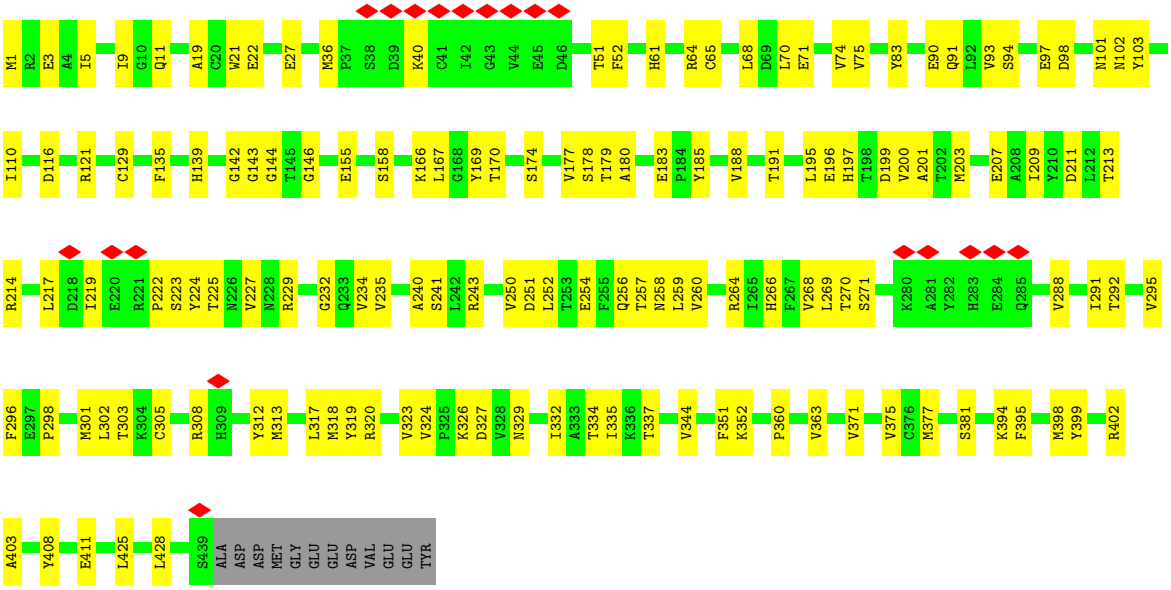
• Molecule 2: Tubulin alpha chain

Chain NE:



• Molecule 2: Tubulin alpha chain

Chain NG:



• Molecule 2: Tubulin alpha chain

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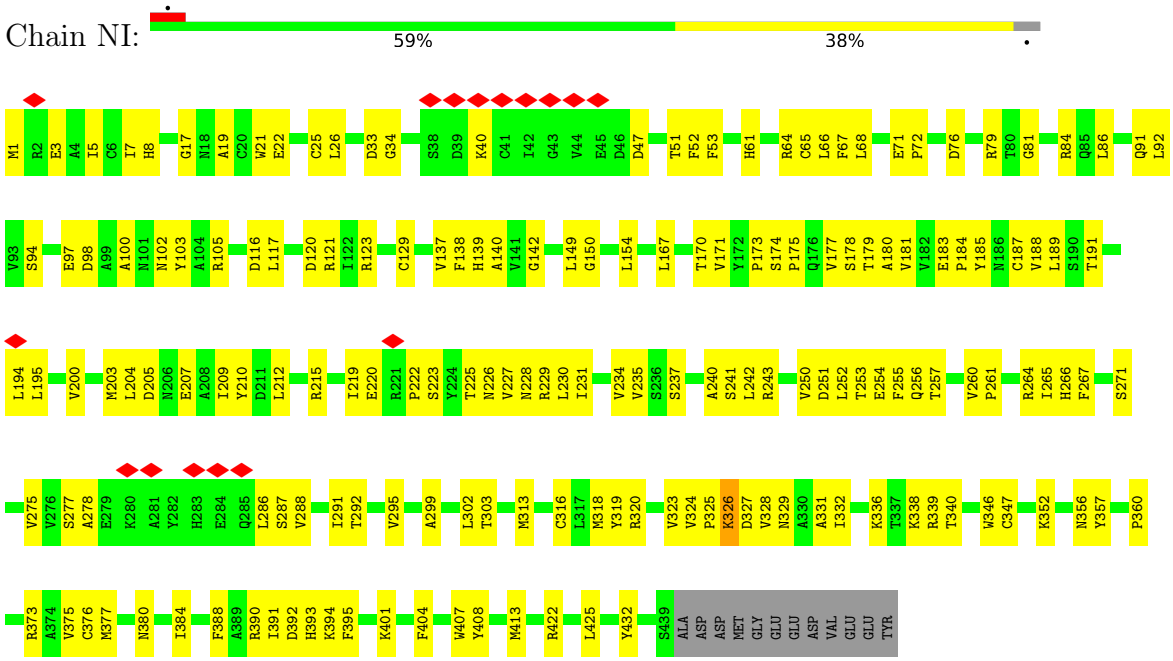

• Molecule 2: Tubulin alpha chain

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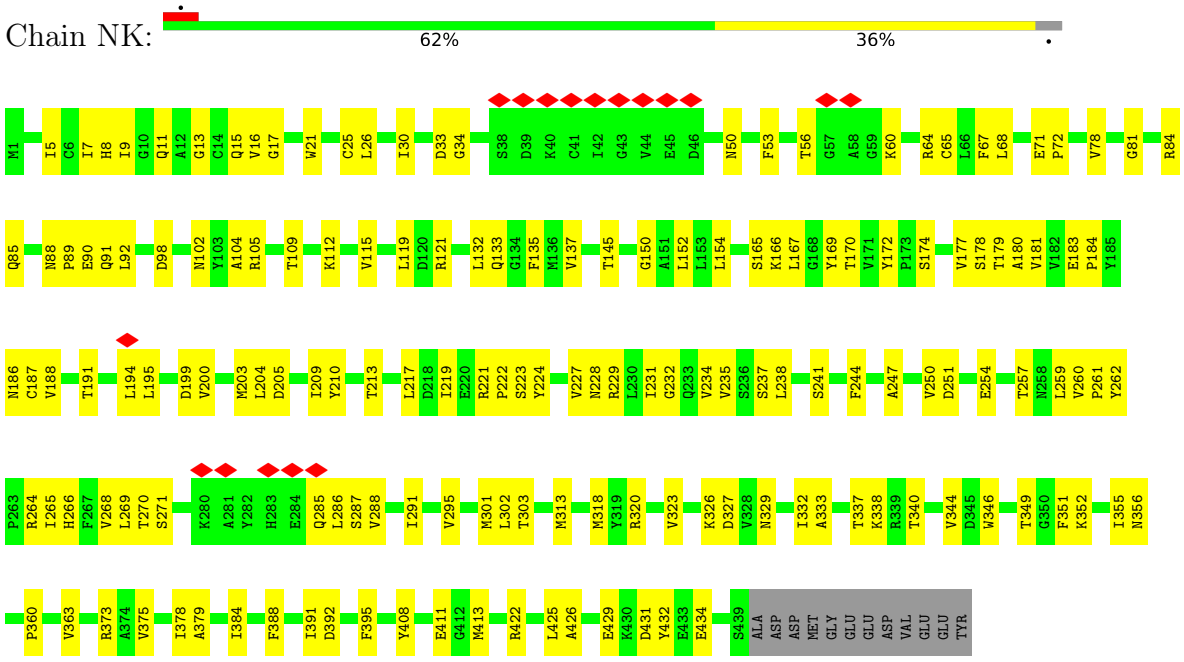
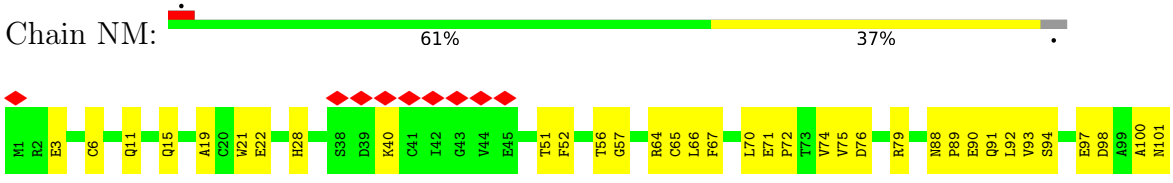
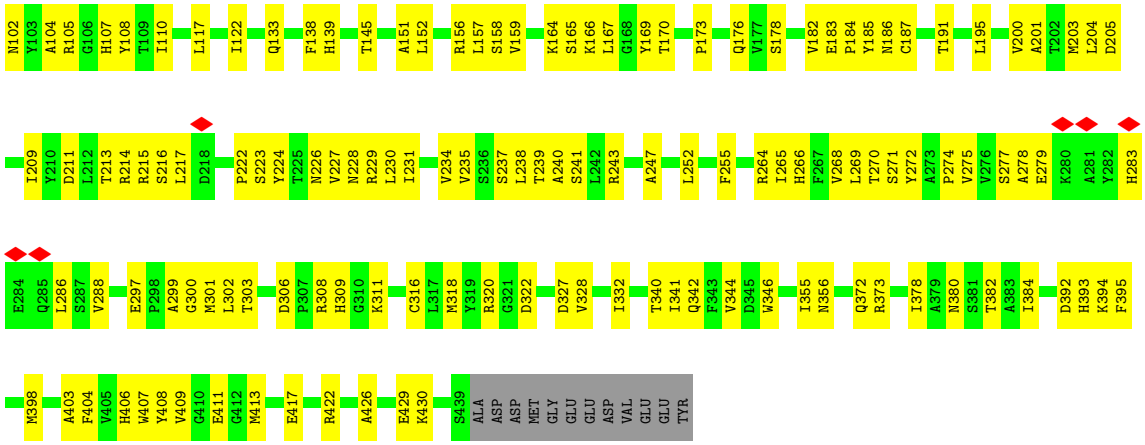


• Molecule 2: Tubulin alpha chain

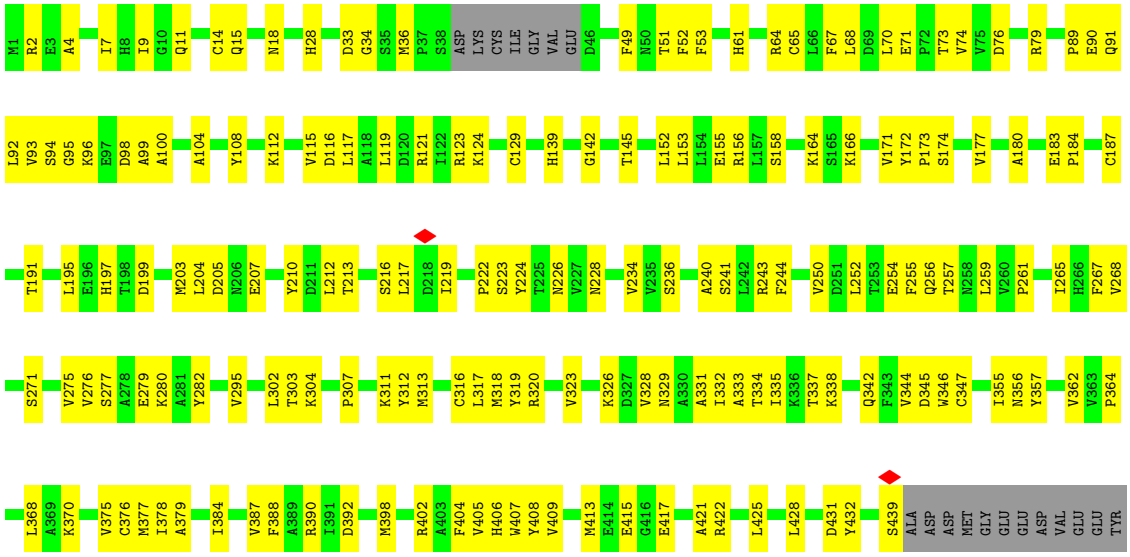
Chain NM:





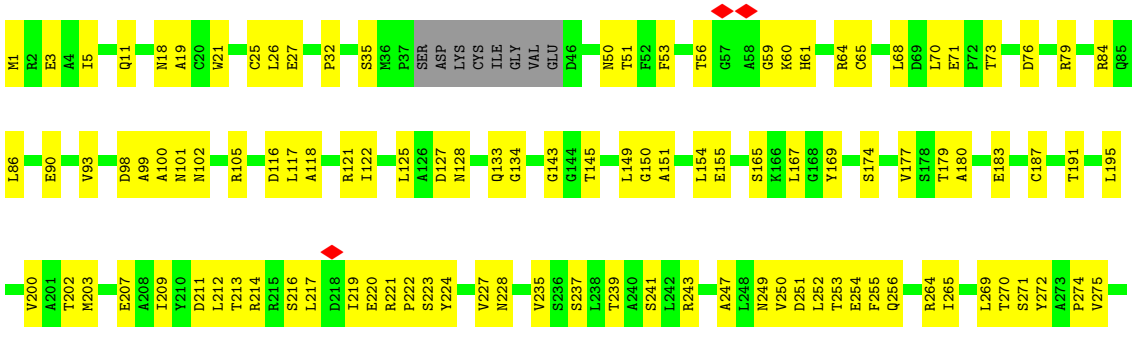
• Molecule 2: Tubulin alpha chain

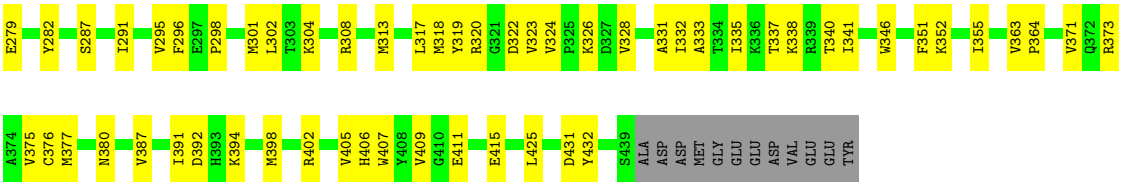
Chain OA:



• Molecule 2: Tubulin alpha chain

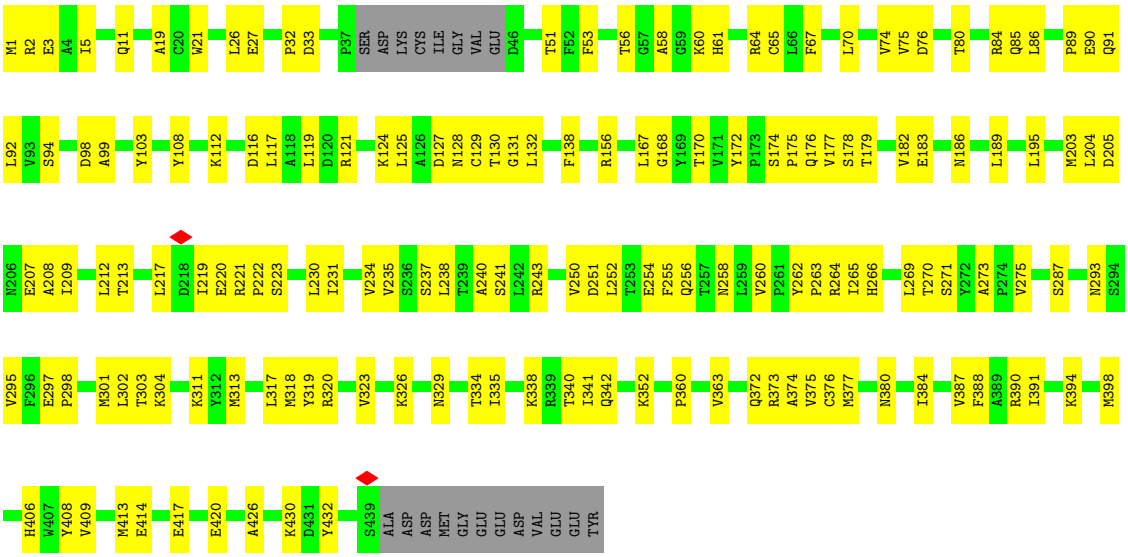
Chain OC:





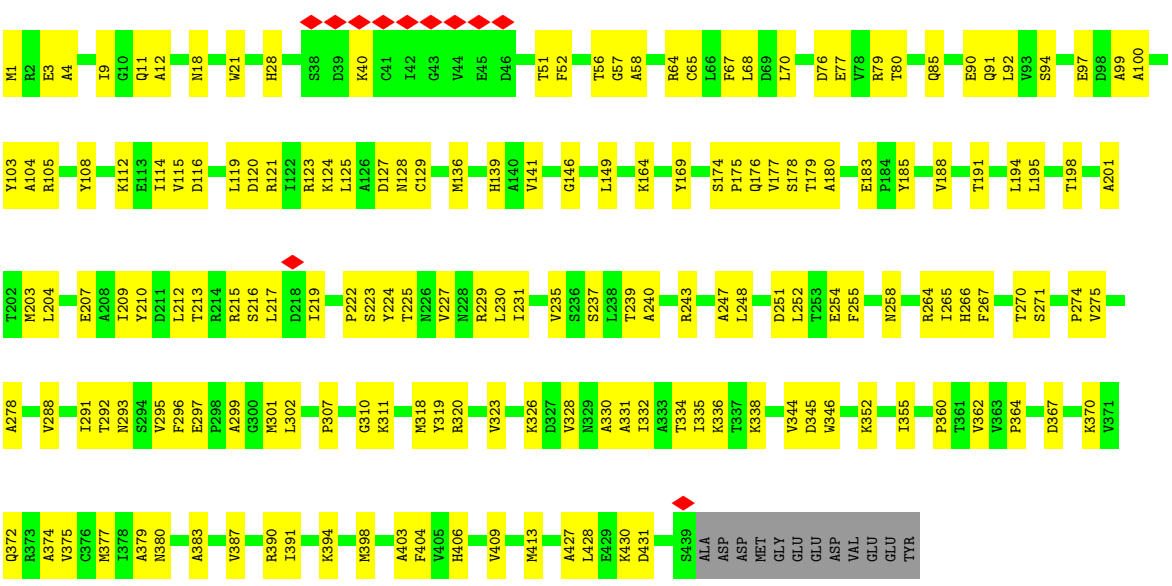
• Molecule 2: Tubulin alpha chain

Chain OE:



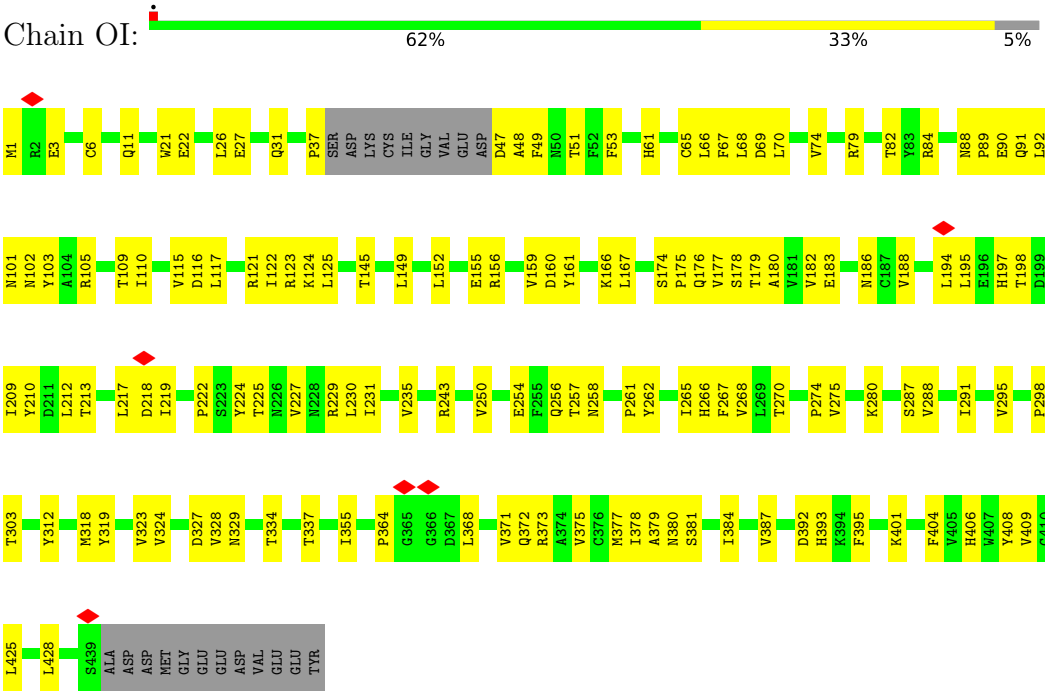
• Molecule 2: Tubulin alpha chain

Chain OG:



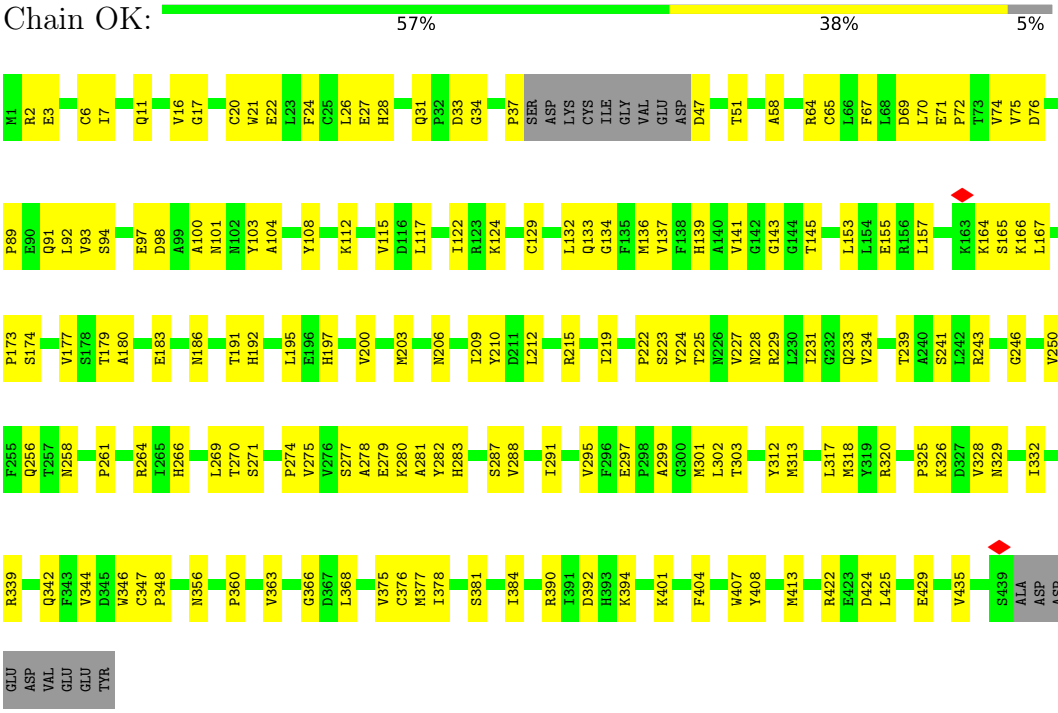
• Molecule 2: Tubulin alpha chain

Chain OI:



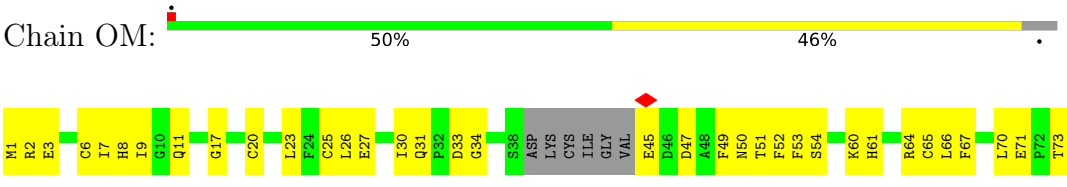
• Molecule 2: Tubulin alpha chain

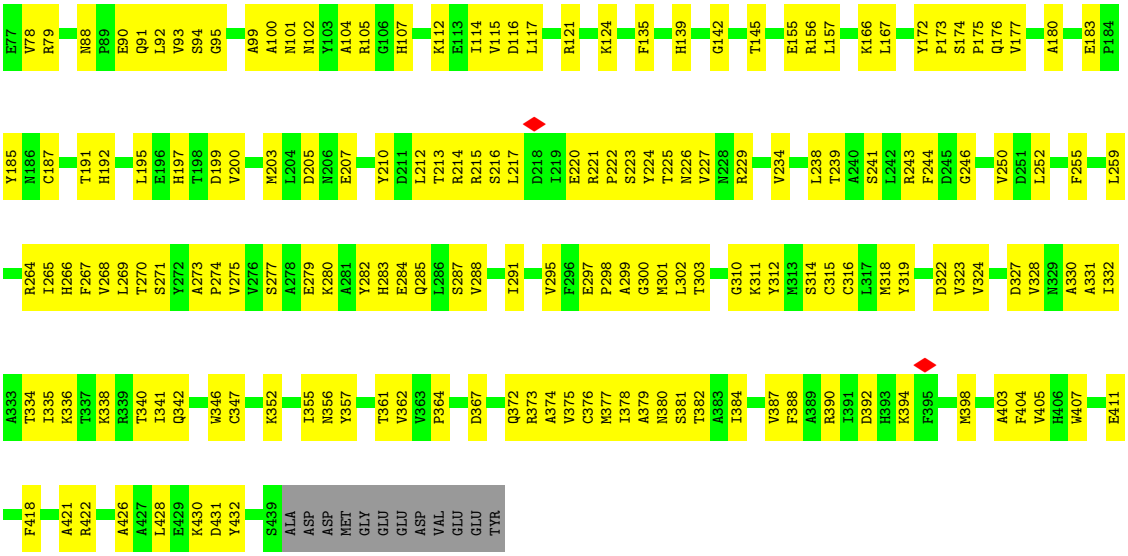
Chain OK:



• Molecule 2: Tubulin alpha chain

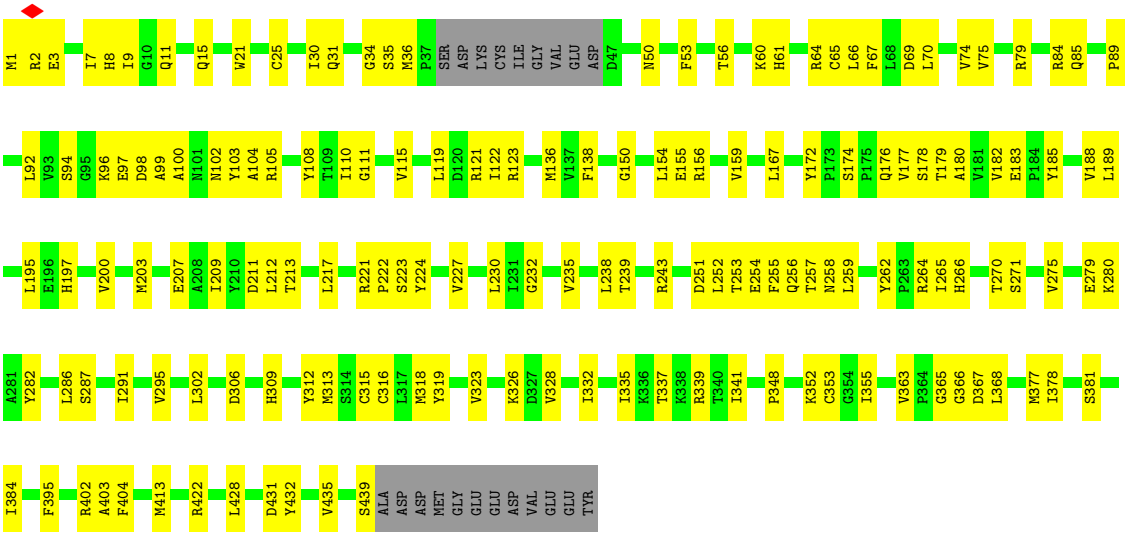
Chain OM:





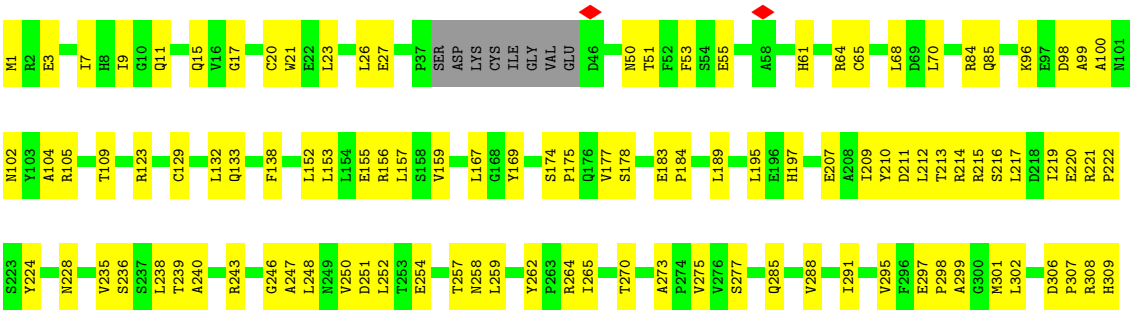
• Molecule 2: Tubulin alpha chain

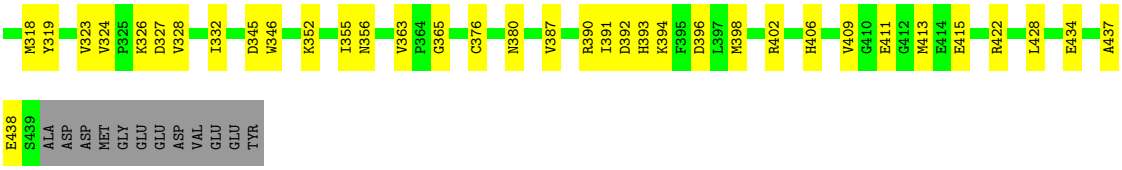
Chain PA:



• Molecule 2: Tubulin alpha chain

Chain PC:





• Molecule 2: Tubulin alpha chain

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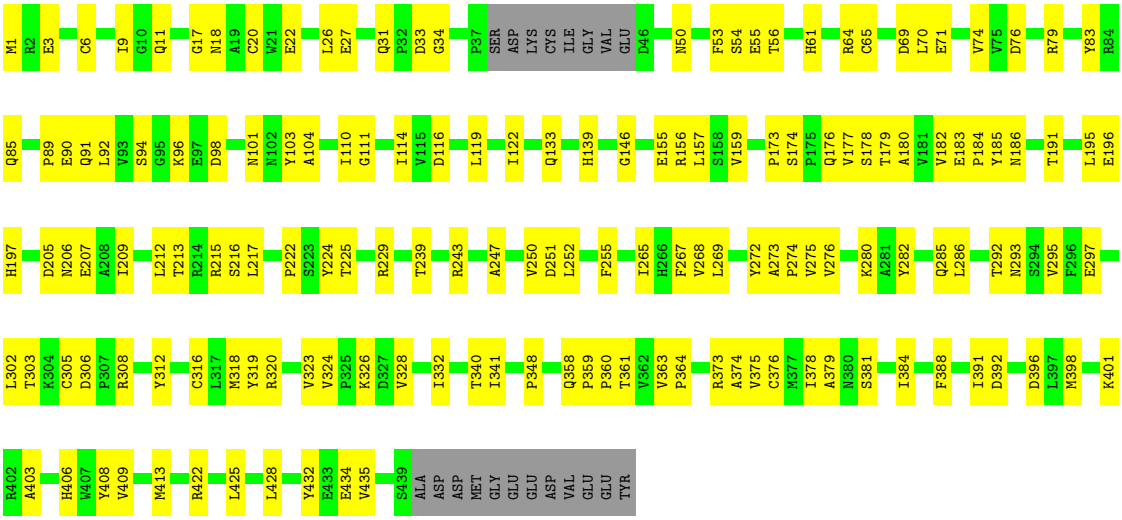
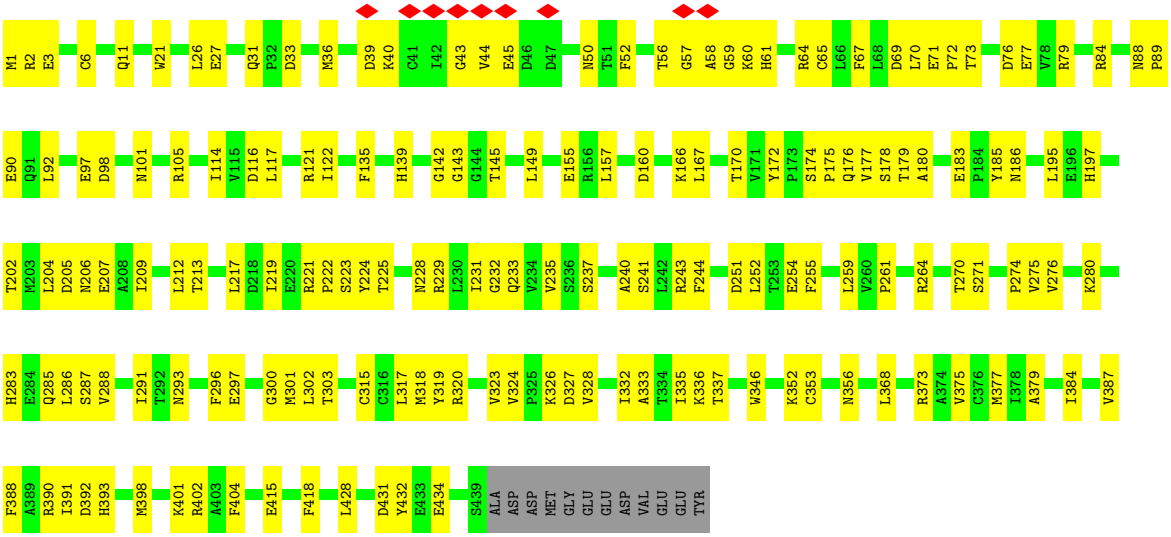


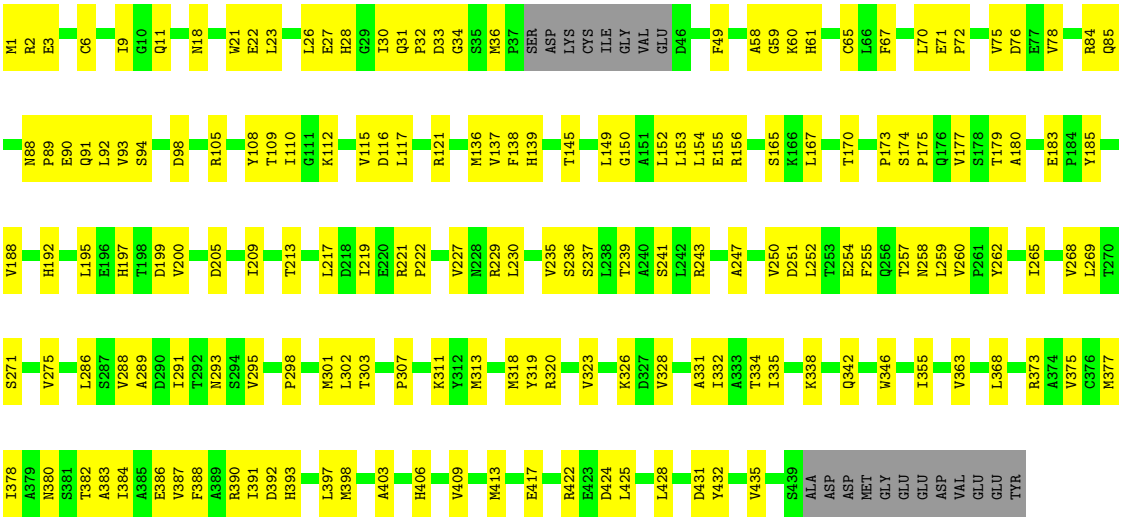
• Molecule 2: Tubulin alpha chain

Chain PG:



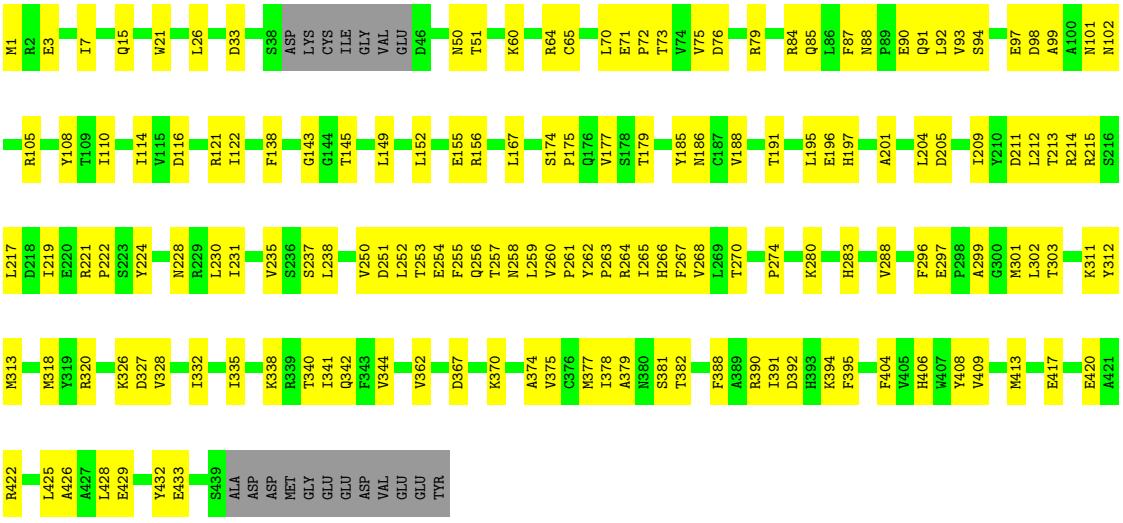
• Molecule 2: Tubulin alpha chain

Chain PI:



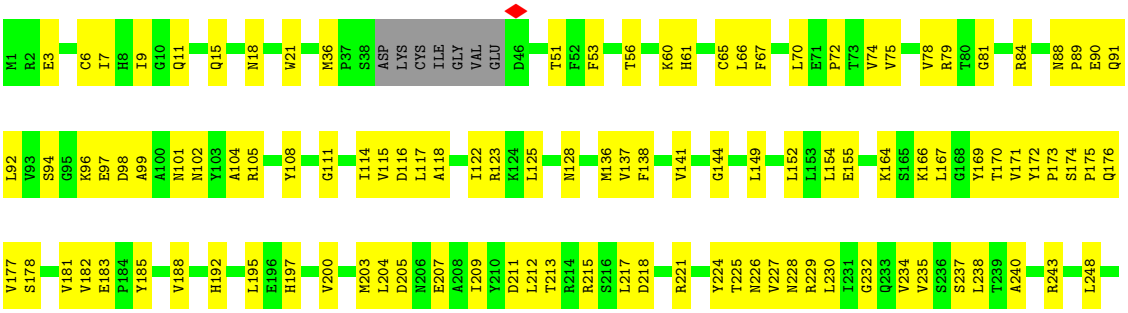
• Molecule 2: Tubulin alpha chain

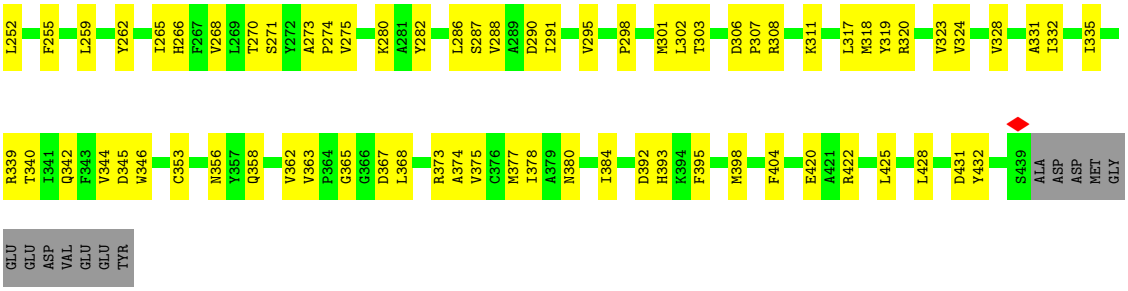
Chain PK:



• Molecule 2: Tubulin alpha chain

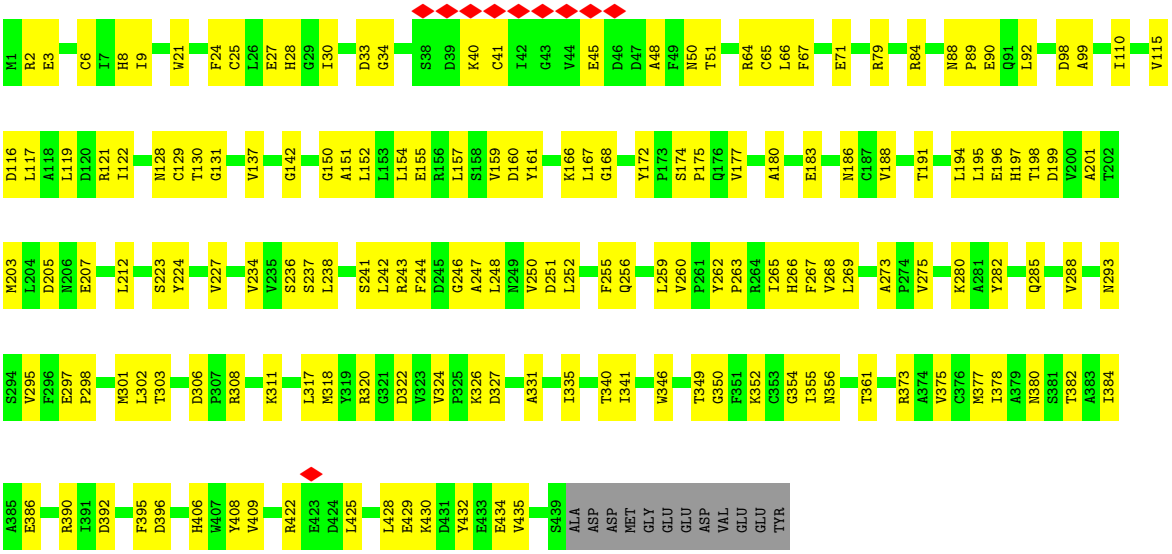
Chain PM:





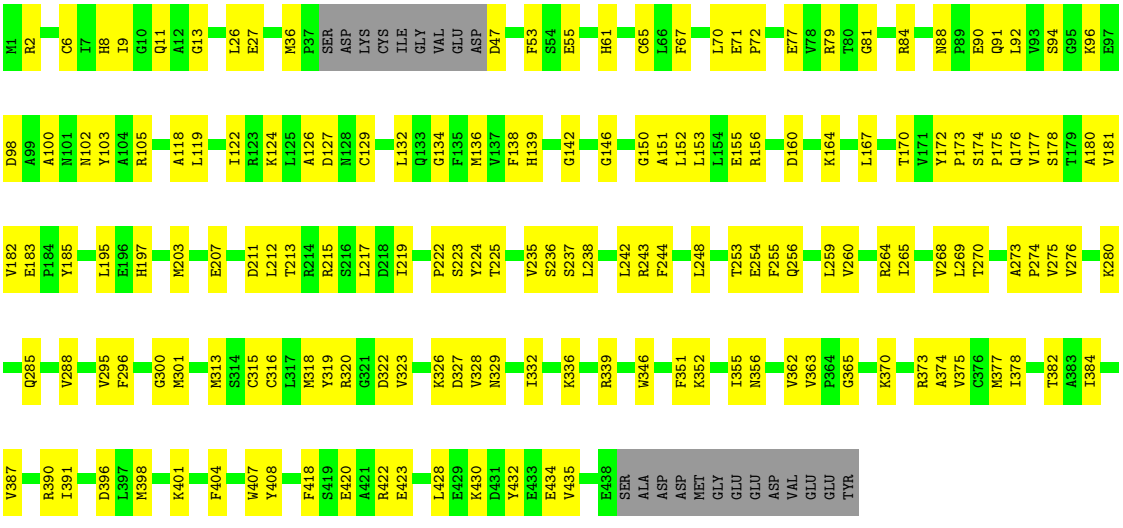
• Molecule 2: Tubulin alpha chain

Chain Q:



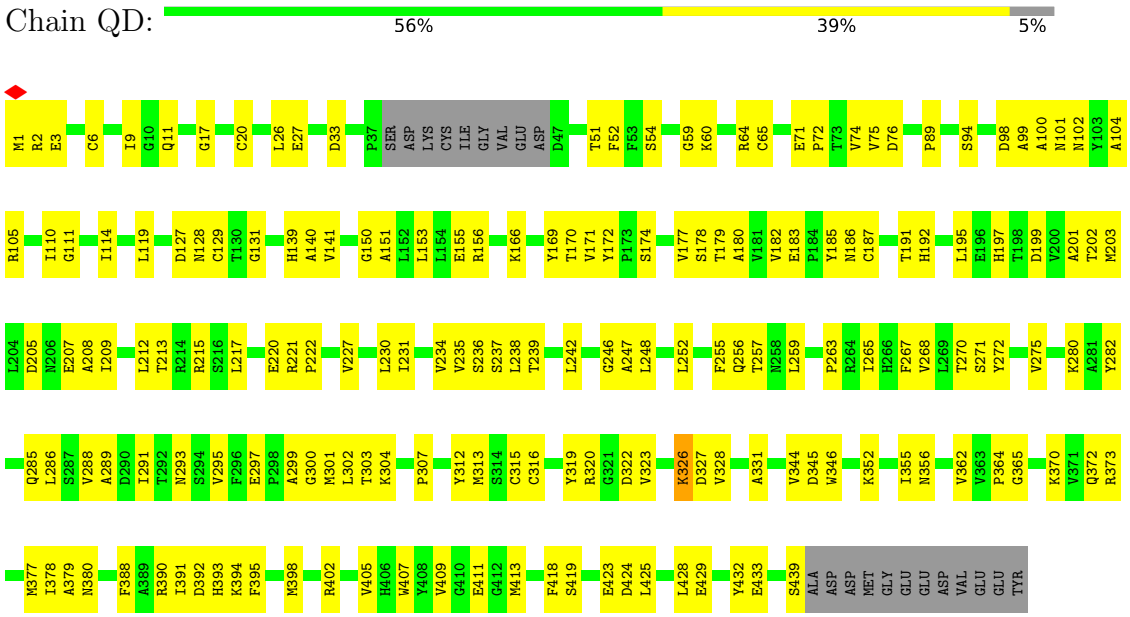
• Molecule 2: Tubulin alpha chain

Chain QB:



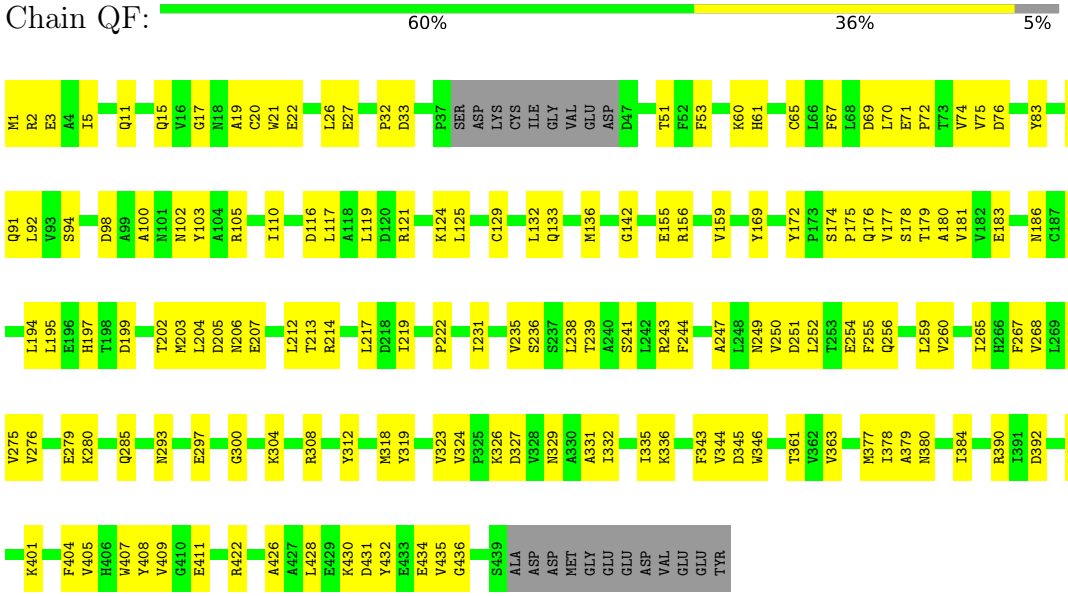
• Molecule 2: Tubulin alpha chain

Chain QD:



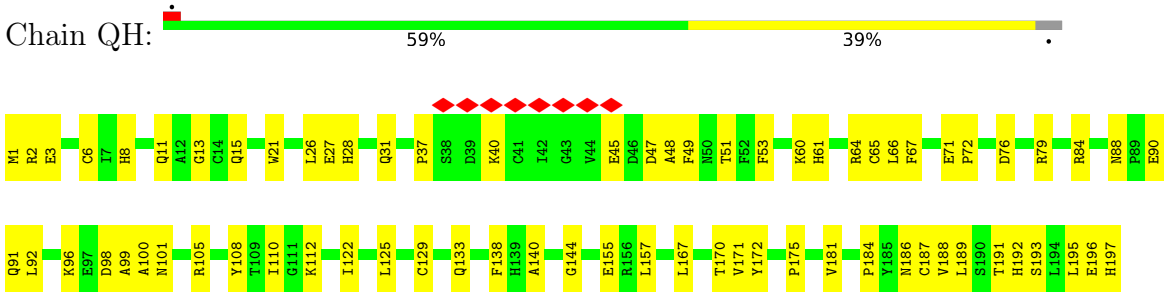
• Molecule 2: Tubulin alpha chain

Chain QF:



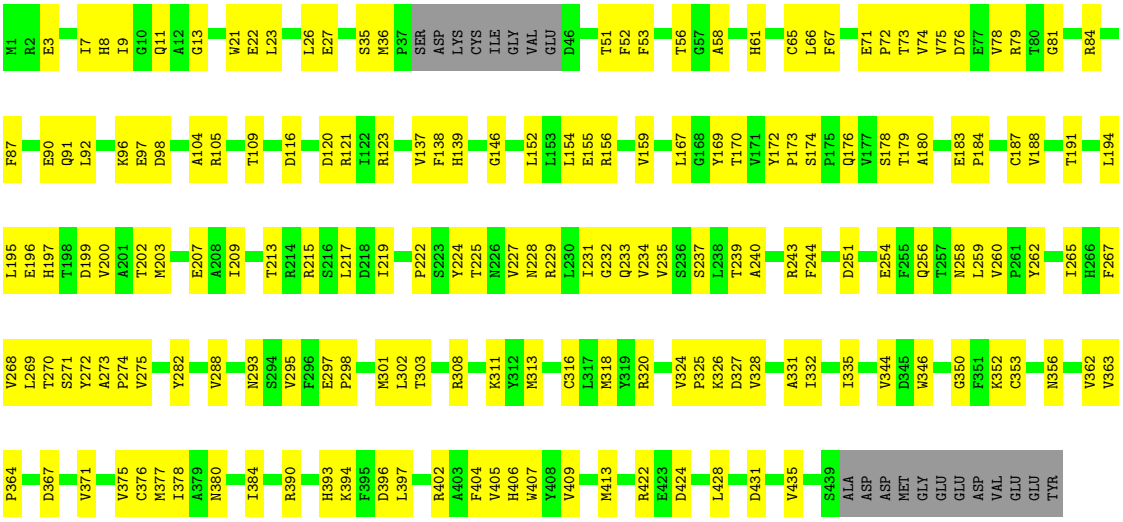
• Molecule 2: Tubulin alpha chain

Chain QH:



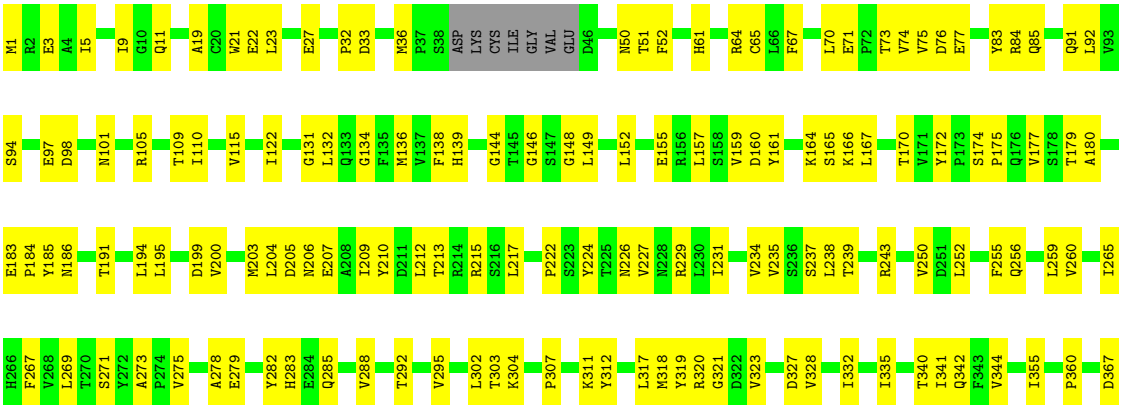
• Molecule 2: Tubulin alpha chain

Chain QJ:



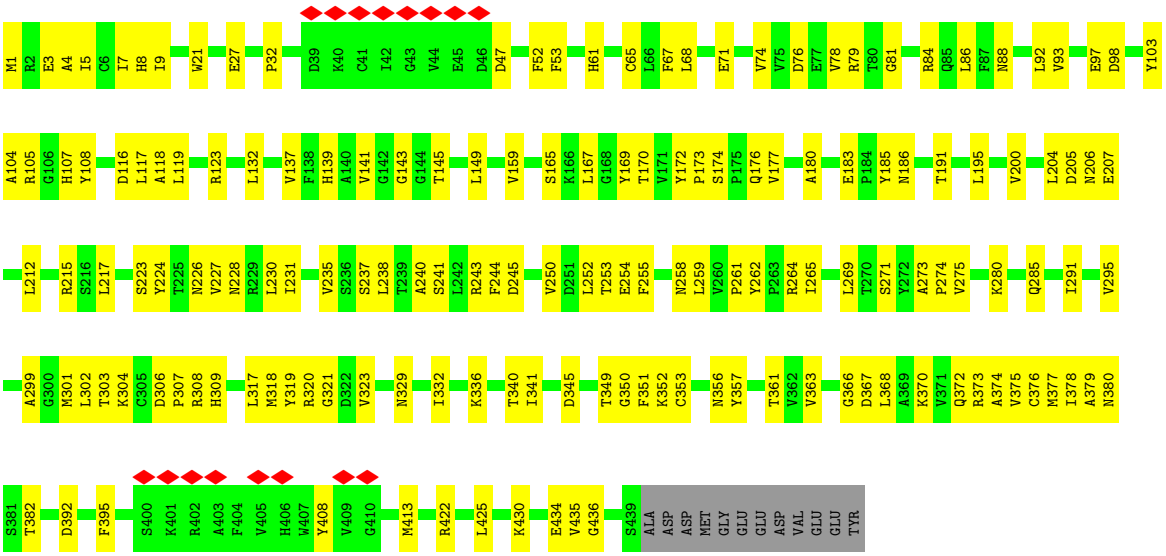
• Molecule 2: Tubulin alpha chain

Chain QL:



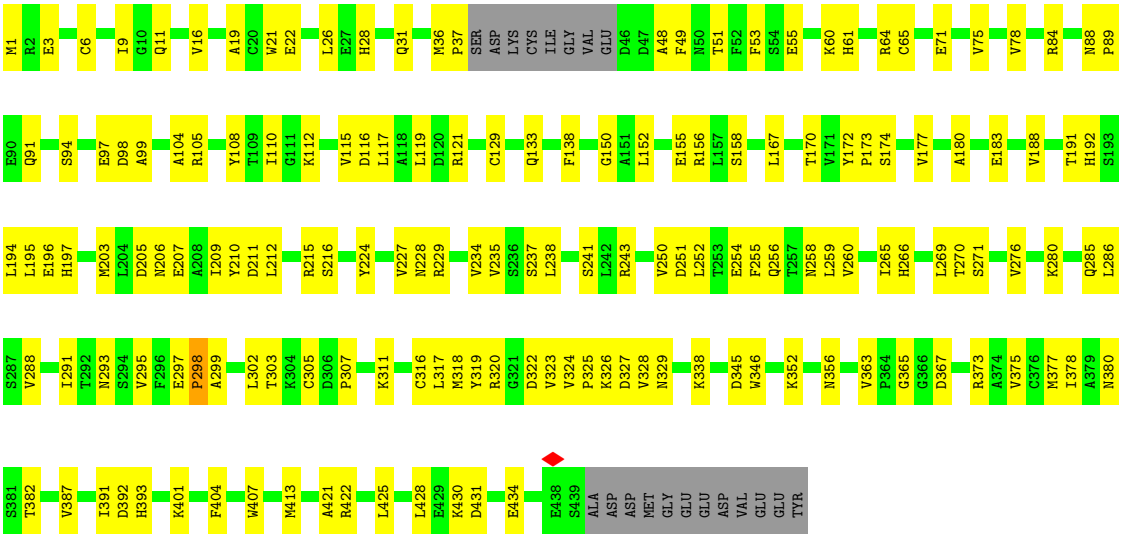
• Molecule 2: Tubulin alpha chain

Chain R:



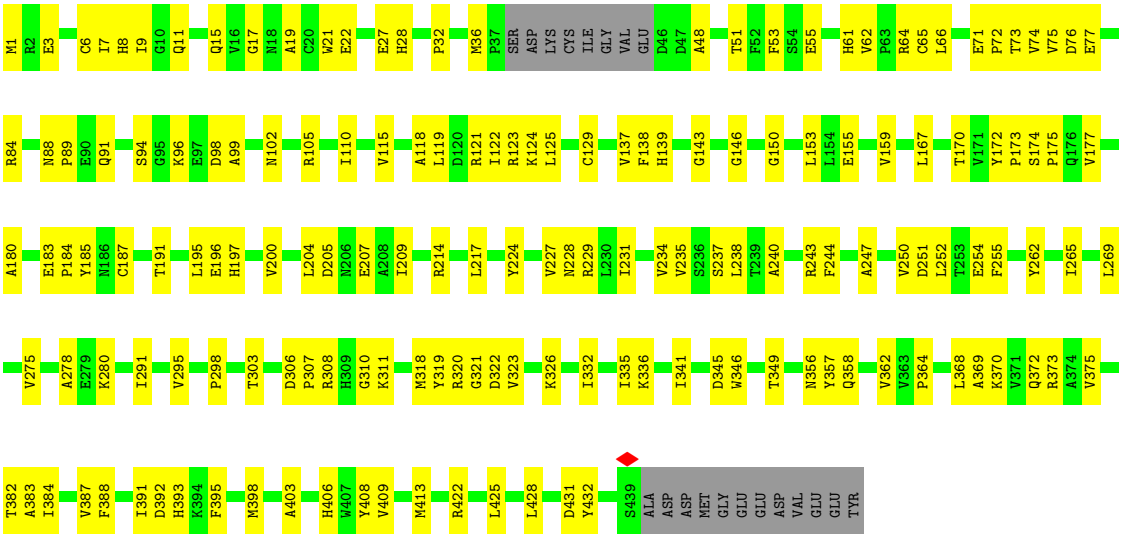
• Molecule 2: Tubulin alpha chain

Chain RB:



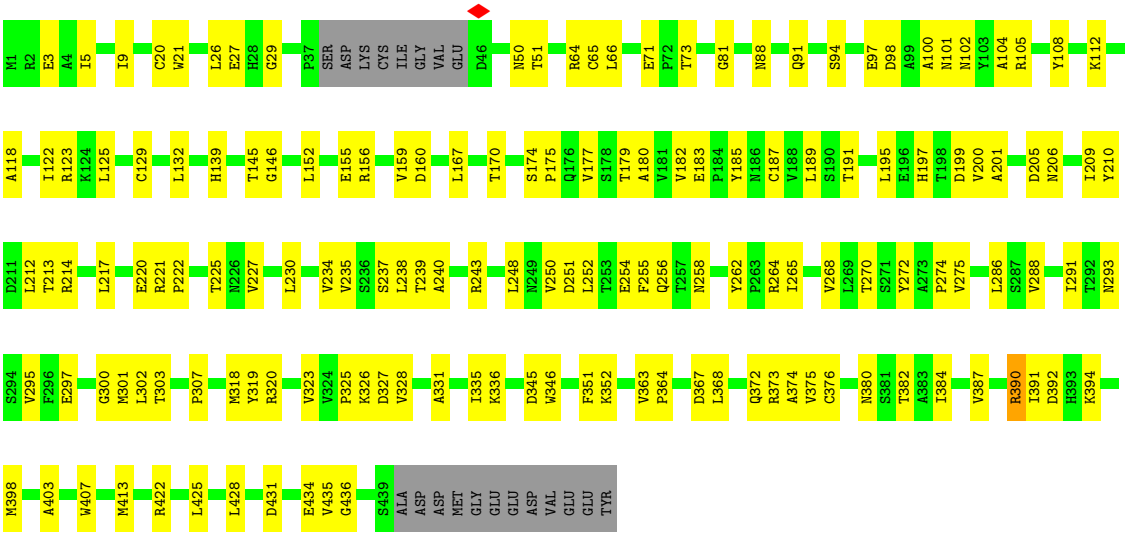
• Molecule 2: Tubulin alpha chain

Chain RD:



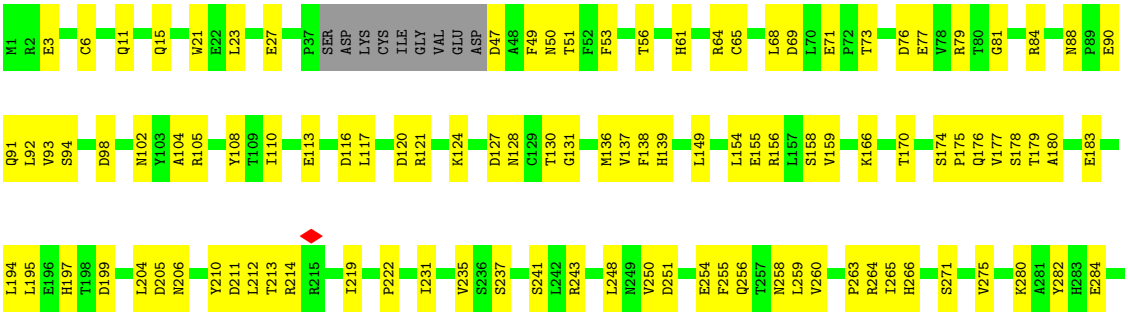
• Molecule 2: Tubulin alpha chain

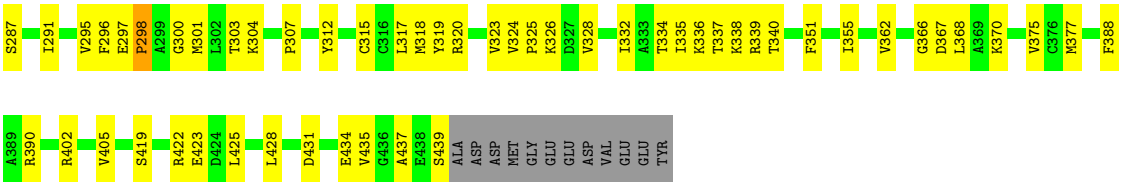
Chain RF:



• Molecule 2: Tubulin alpha chain

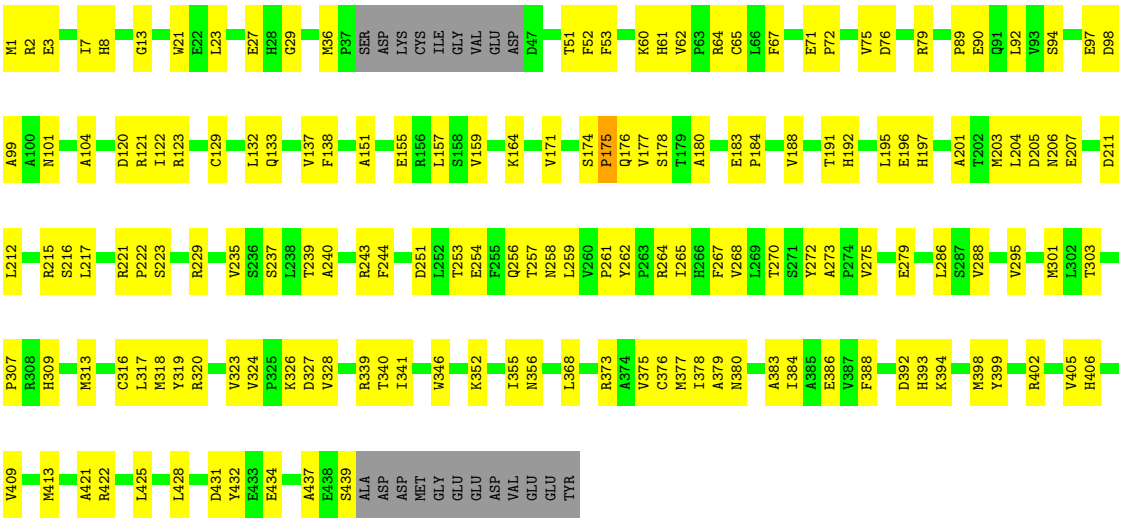
Chain RH:





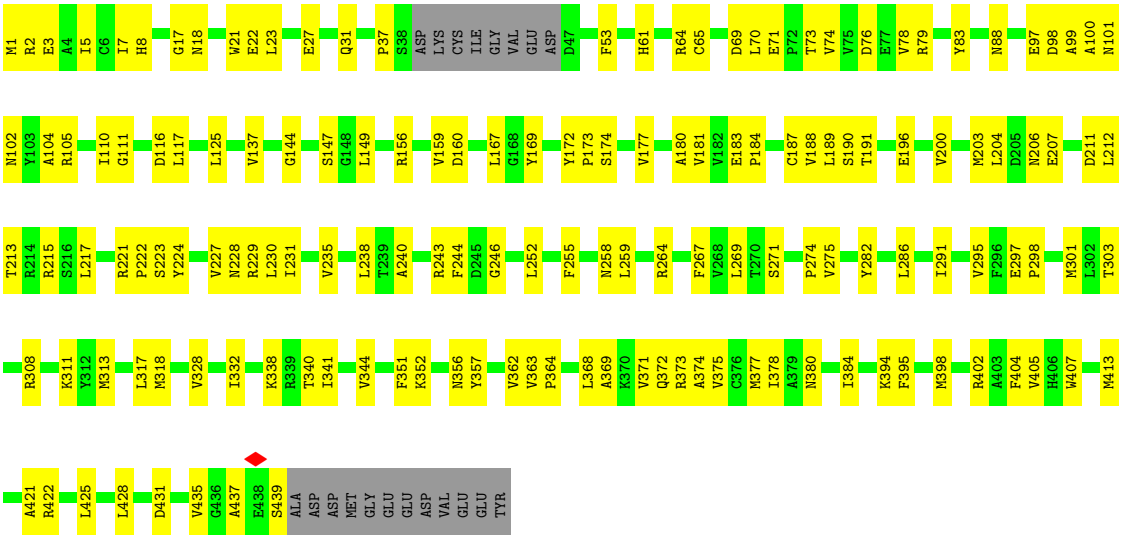
• Molecule 2: Tubulin alpha chain

Chain RJ:



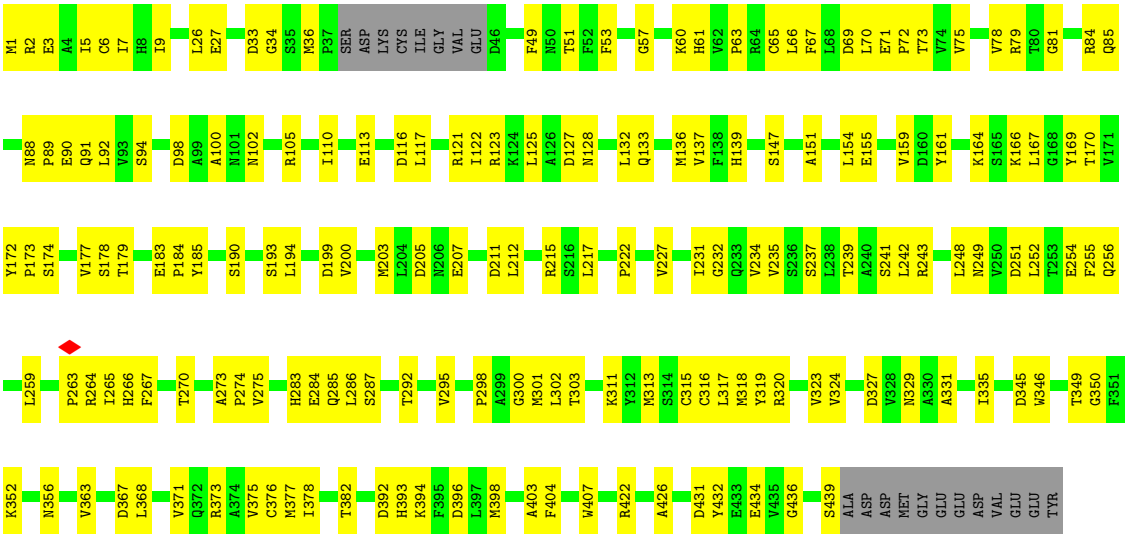
• Molecule 2: Tubulin alpha chain

Chain RL:



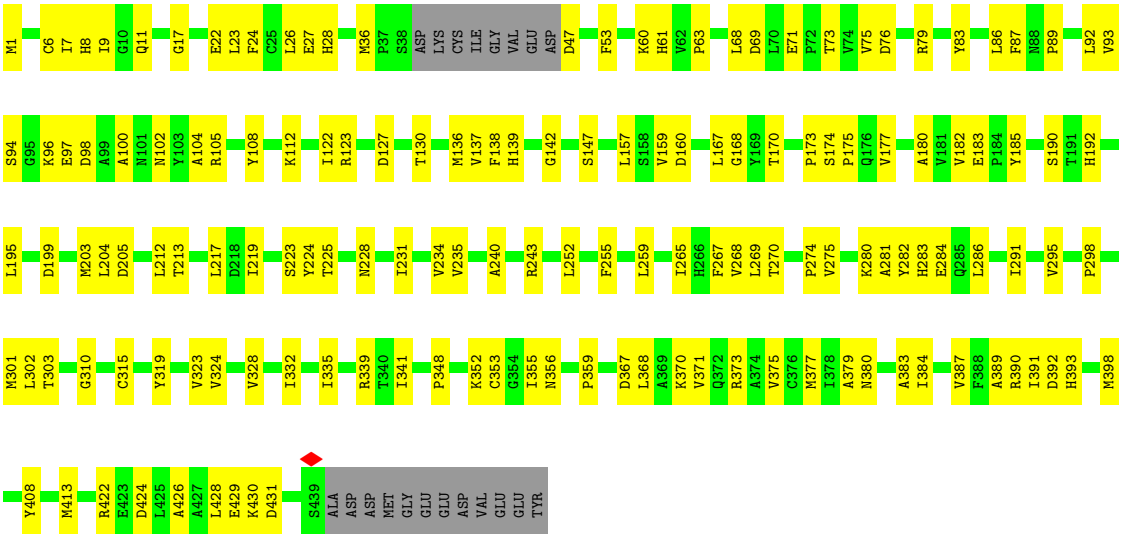
• Molecule 2: Tubulin alpha chain

Chain SA:



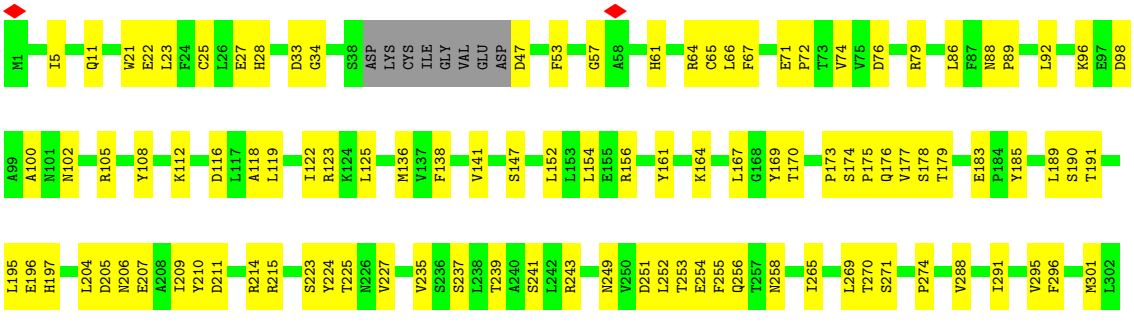
• Molecule 2: Tubulin alpha chain

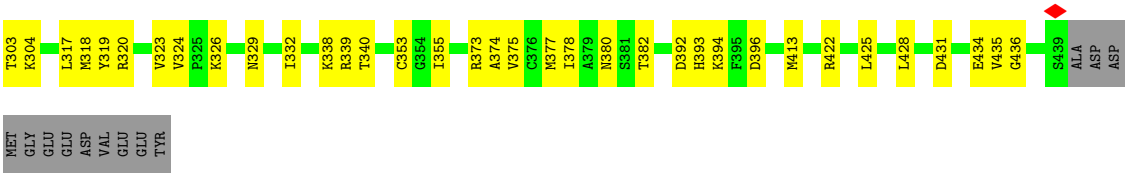
Chain SC:



• Molecule 2: Tubulin alpha chain

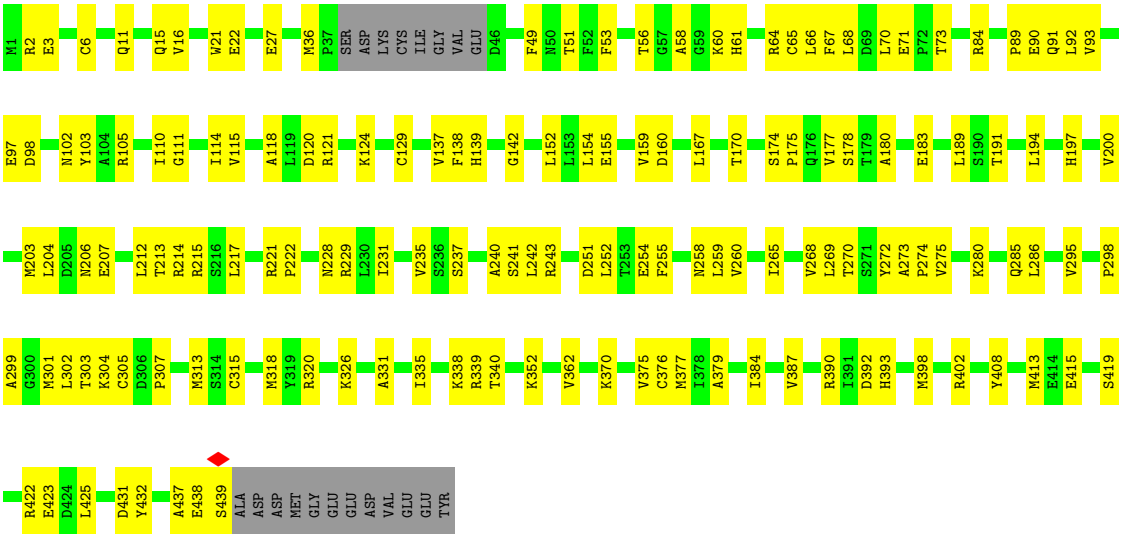
Chain SE:





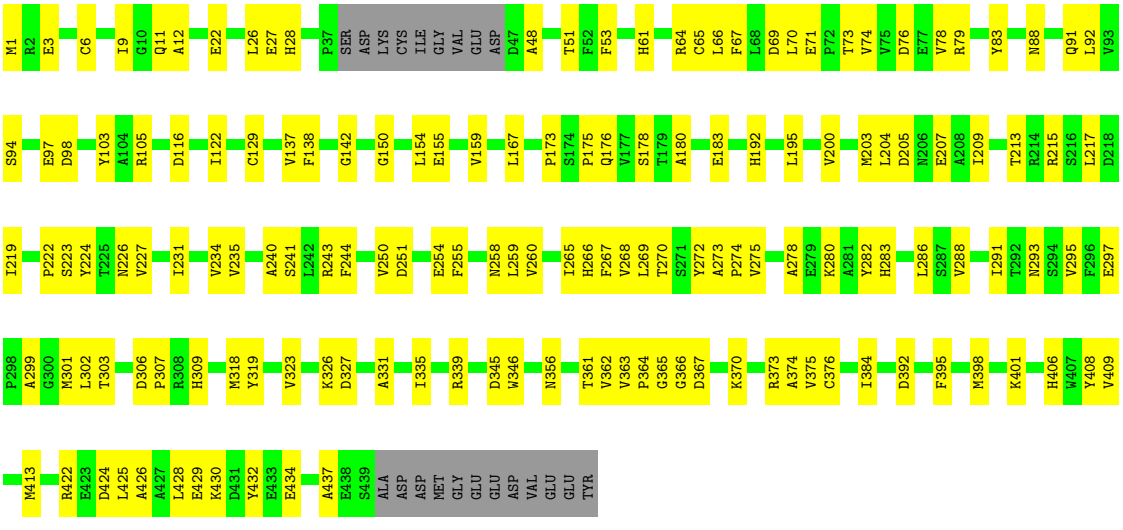
• Molecule 2: Tubulin alpha chain

Chain SG:



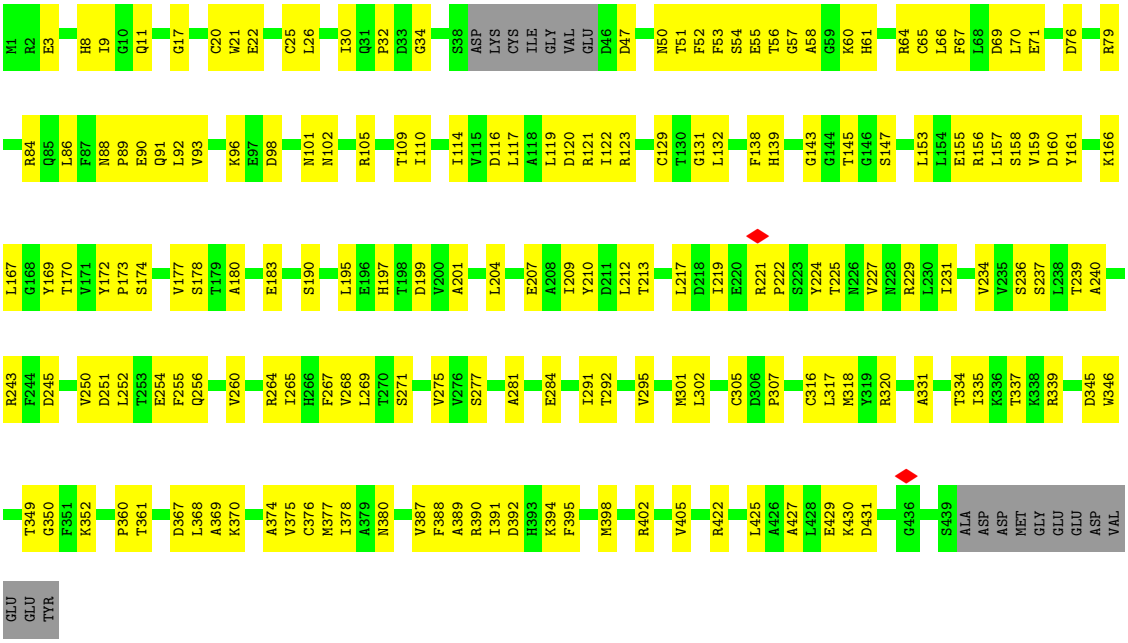
• Molecule 2: Tubulin alpha chain

Chain SI:



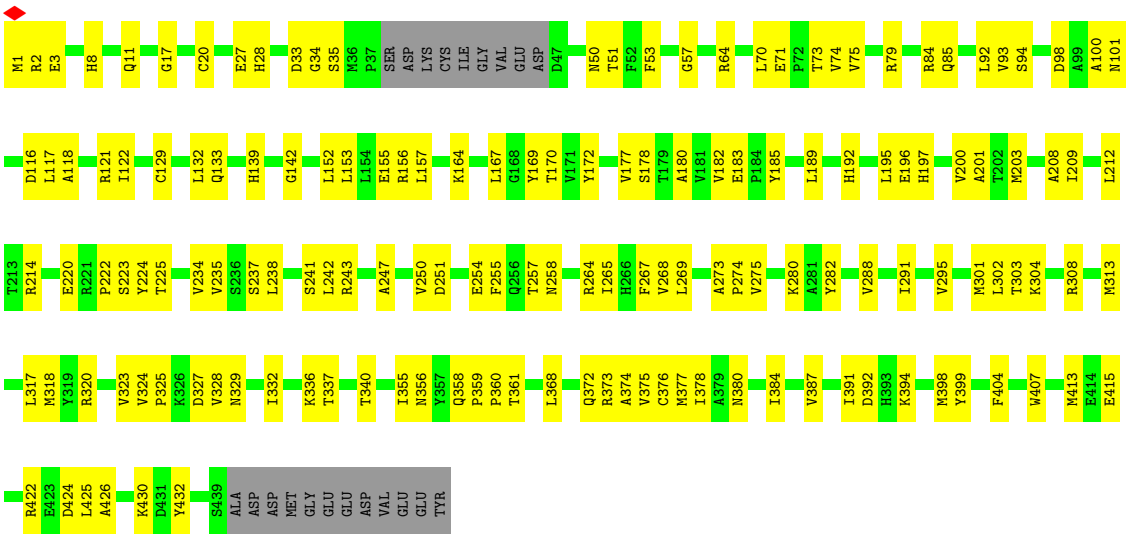
• Molecule 2: Tubulin alpha chain

Chain SK:



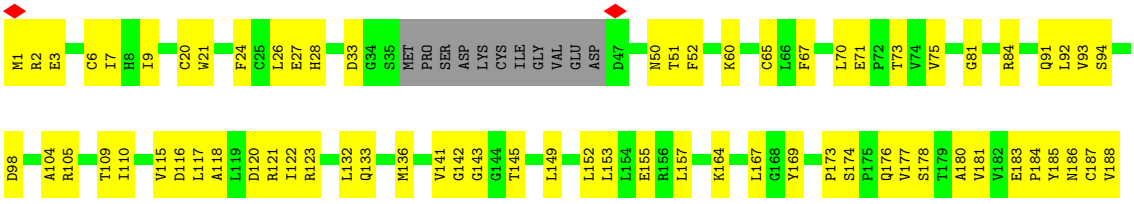
• Molecule 2: Tubulin alpha chain

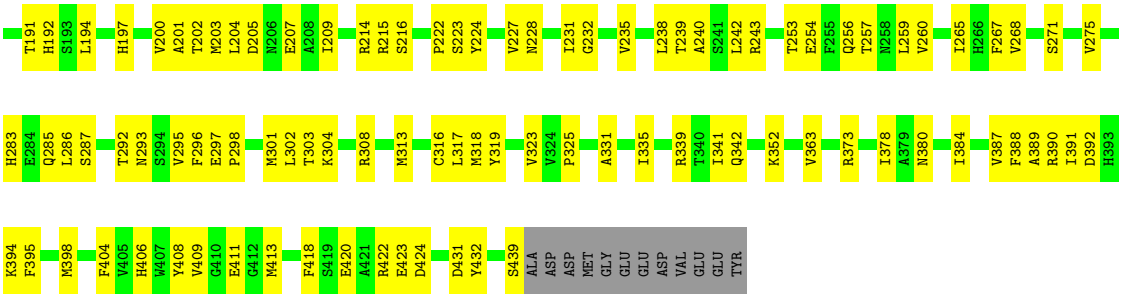
Chain TA:



• Molecule 2: Tubulin alpha chain

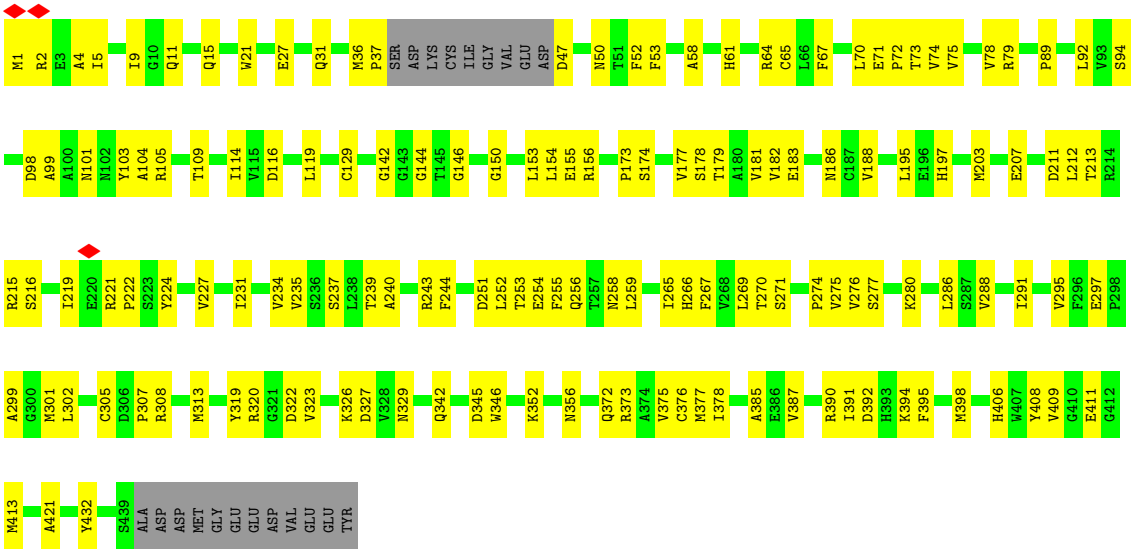
Chain TC:





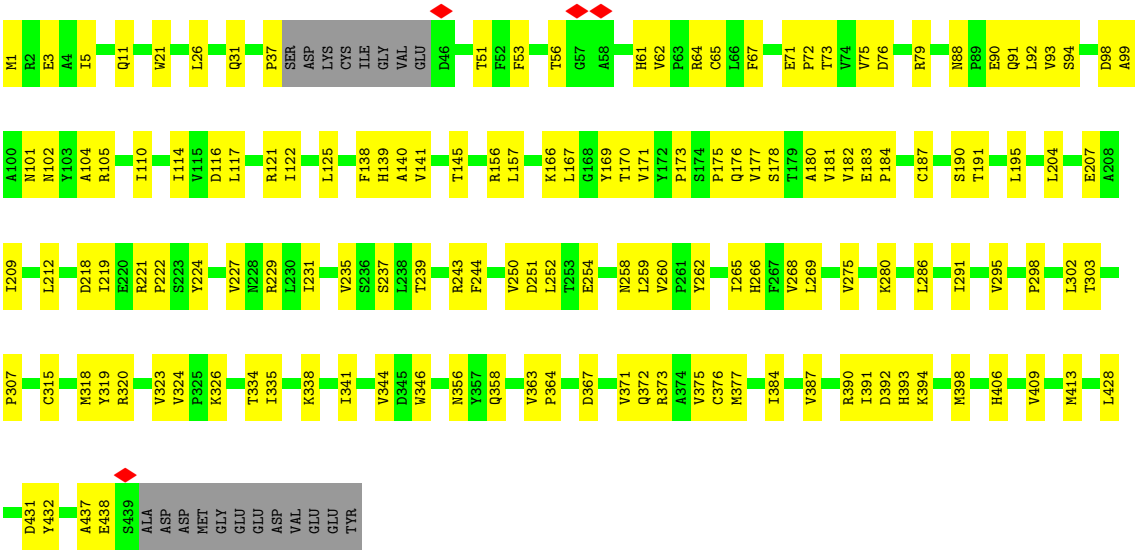
• Molecule 2: Tubulin alpha chain

Chain TE:



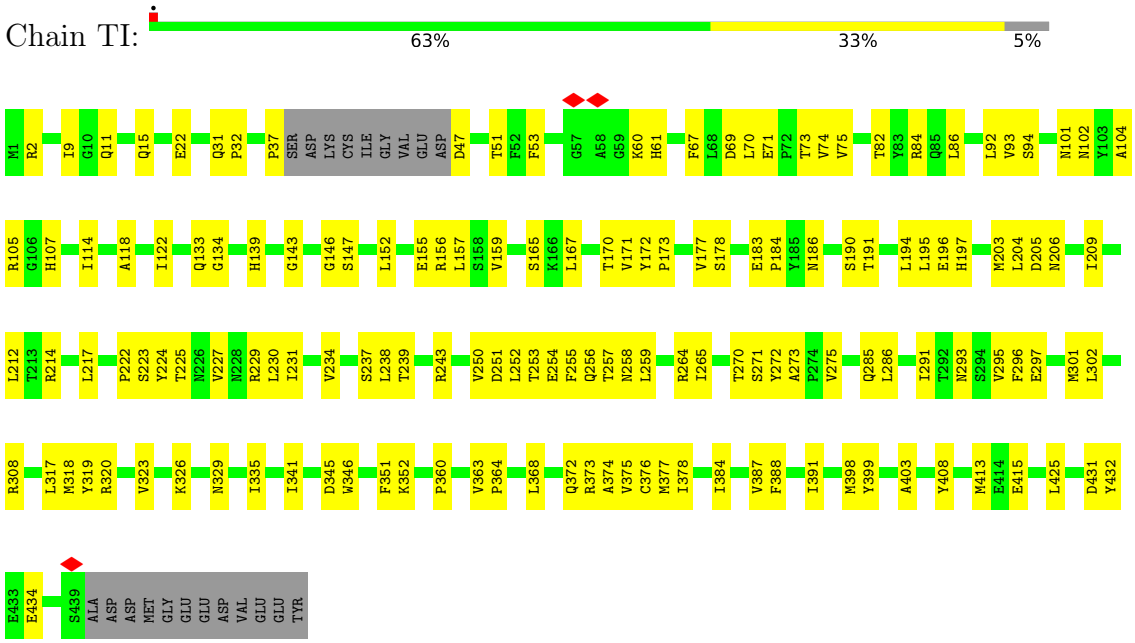
• Molecule 2: Tubulin alpha chain

Chain TG:



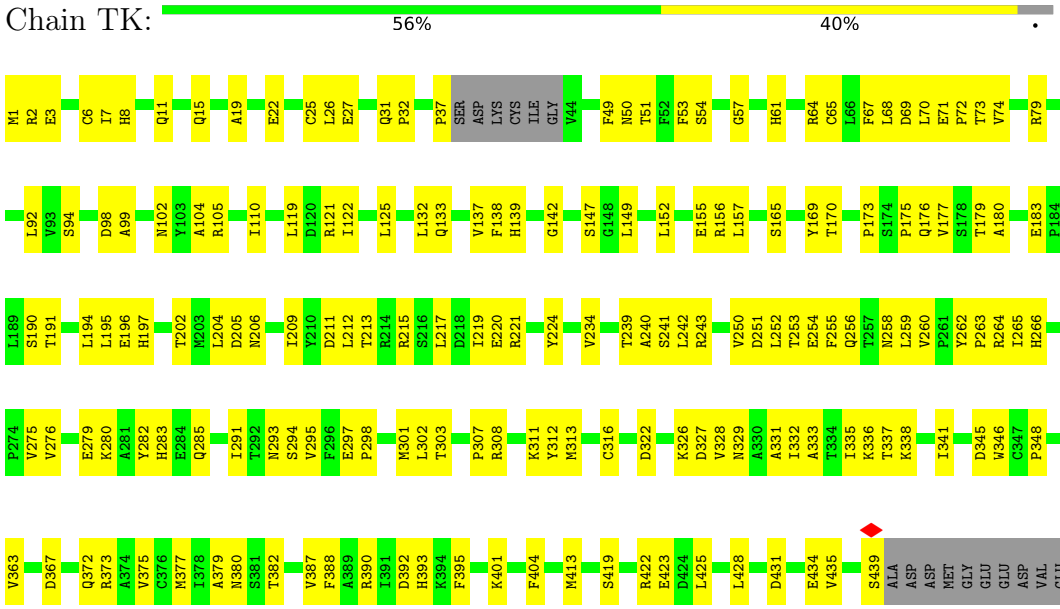
• Molecule 2: Tubulin alpha chain

Chain TI:



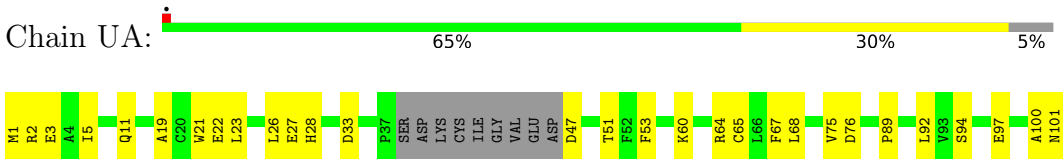
• Molecule 2: Tubulin alpha chain

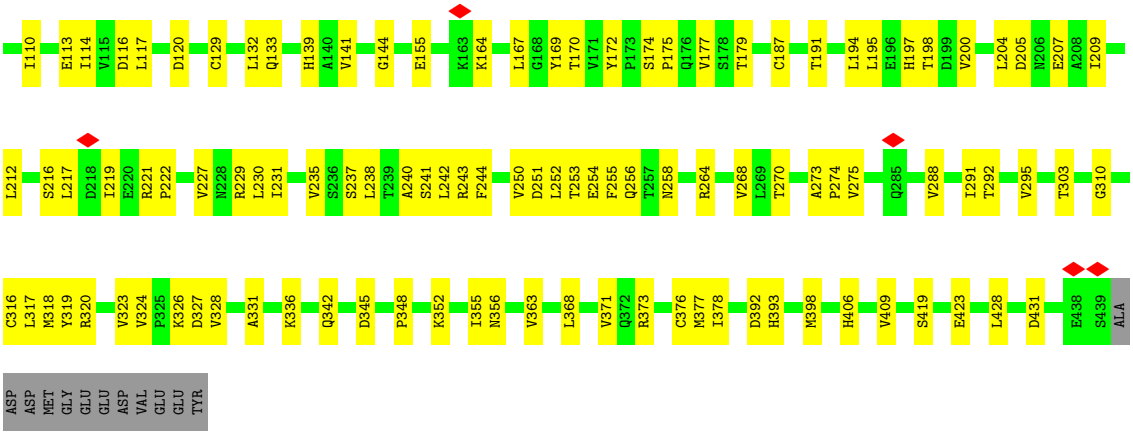
Chain TK:



• Molecule 2: Tubulin alpha chain

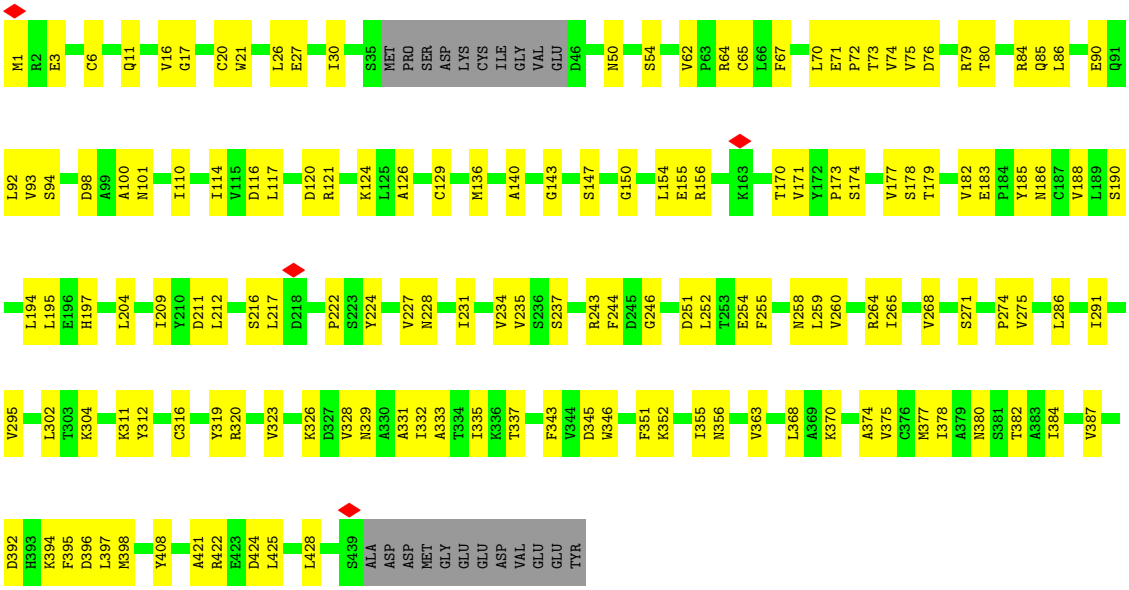
Chain UA:





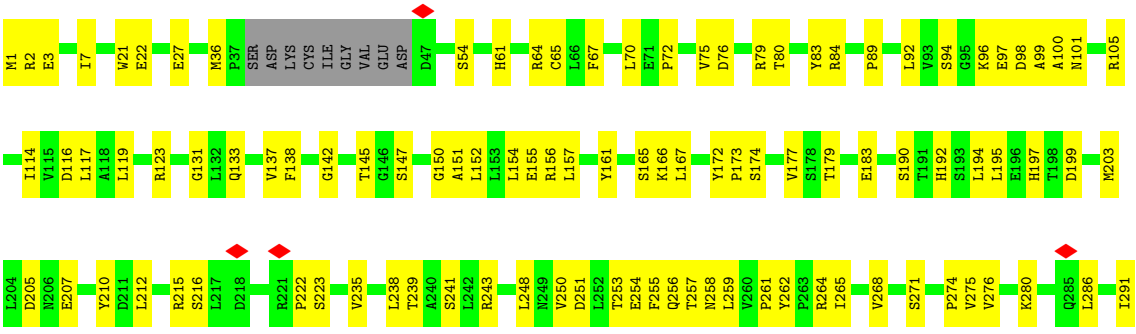
• Molecule 2: Tubulin alpha chain

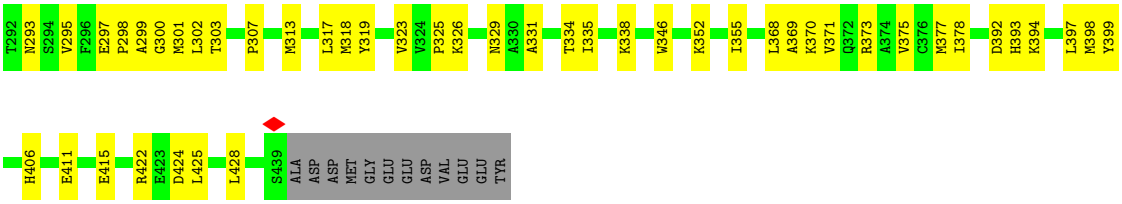
Chain UC:



• Molecule 2: Tubulin alpha chain

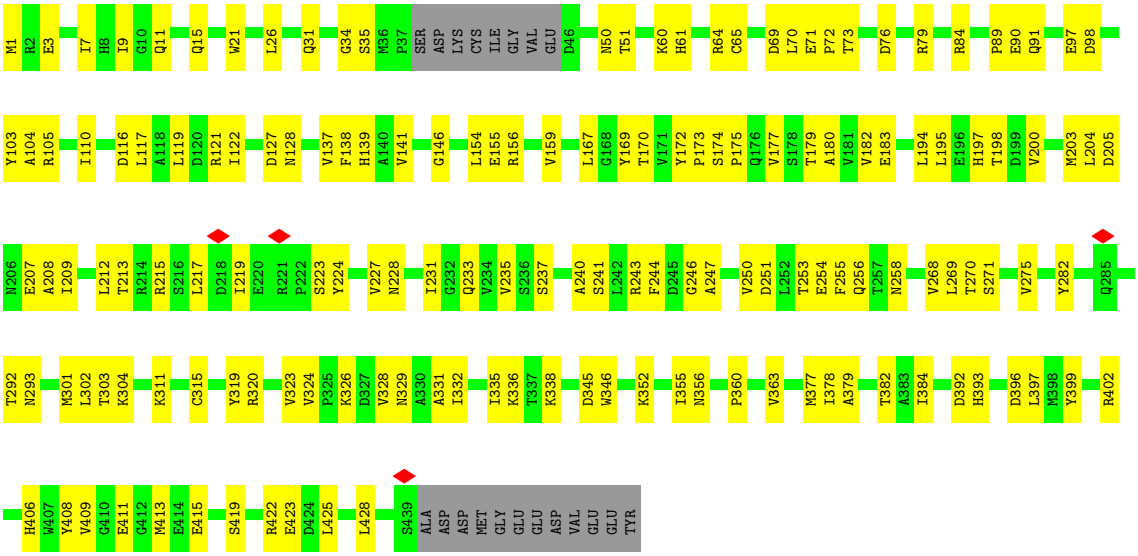
Chain UE:





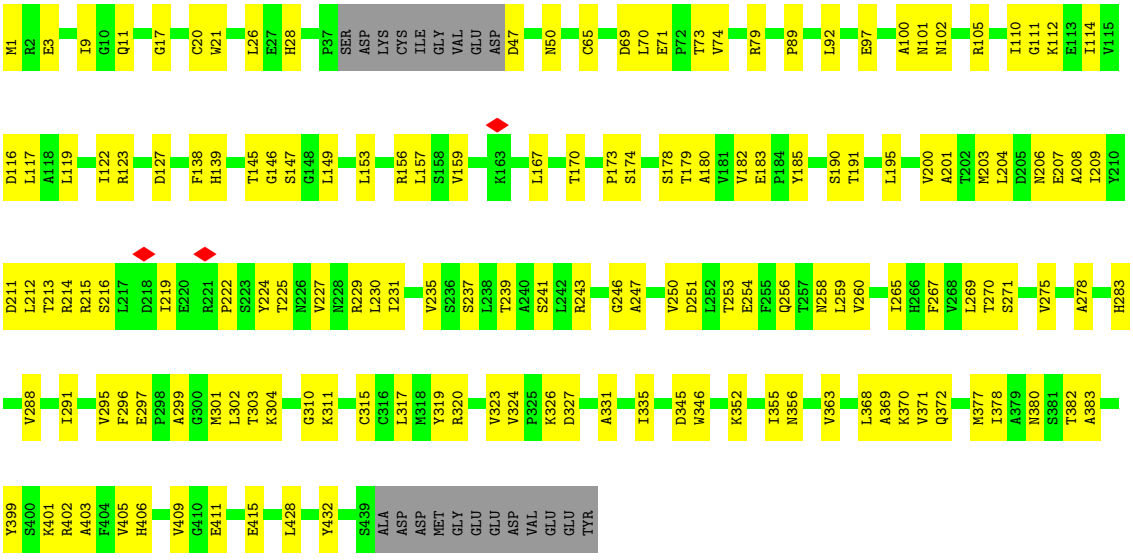
• Molecule 2: Tubulin alpha chain

Chain UG:



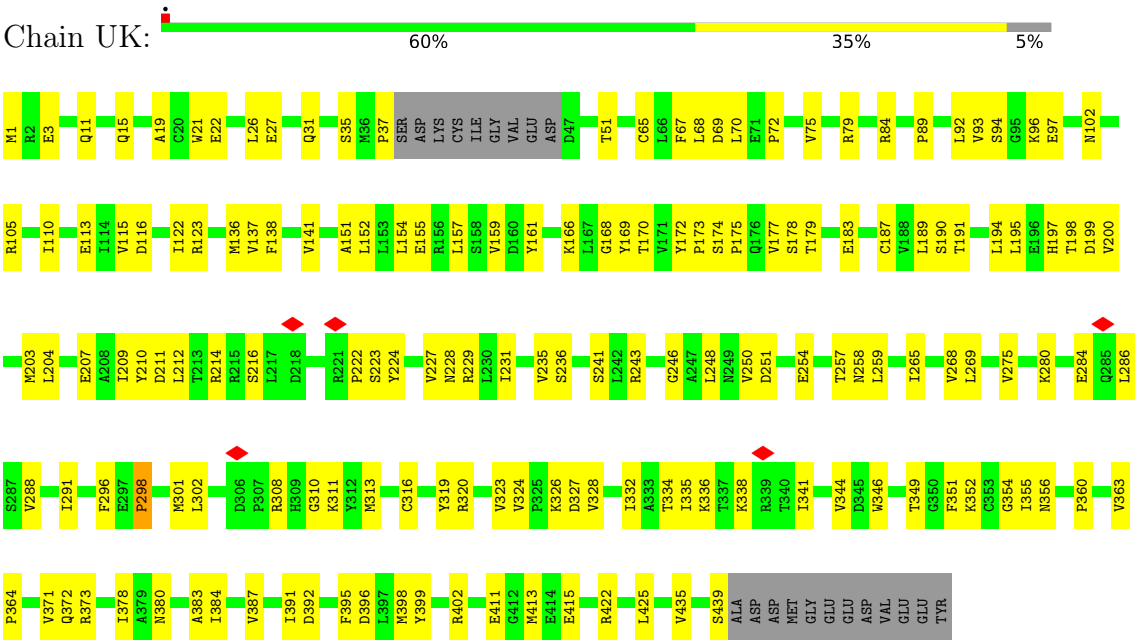
• Molecule 2: Tubulin alpha chain

Chain UI:



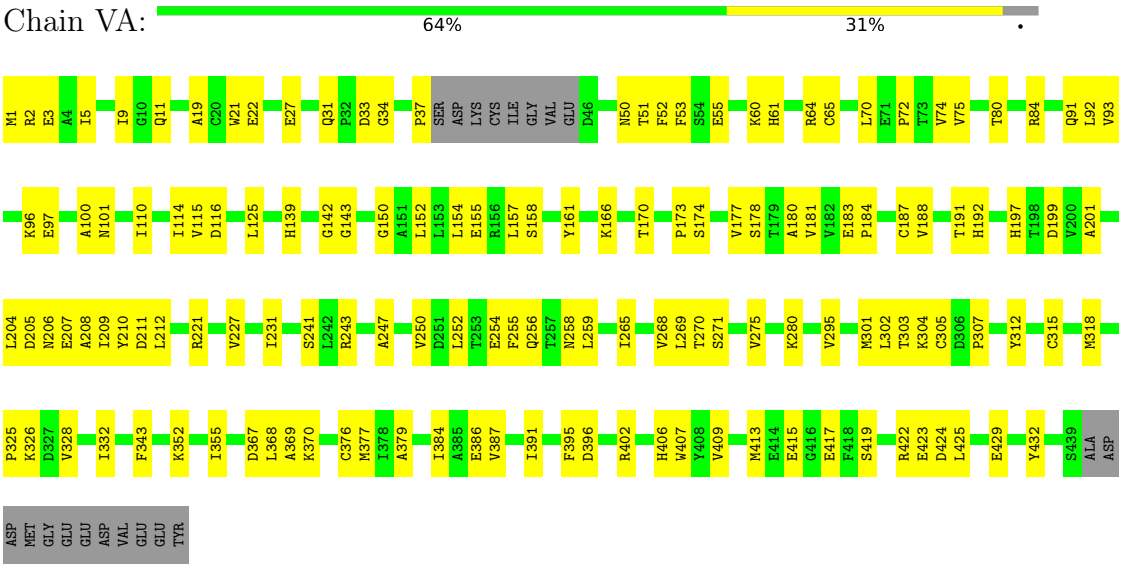
• Molecule 2: Tubulin alpha chain

Chain UK:



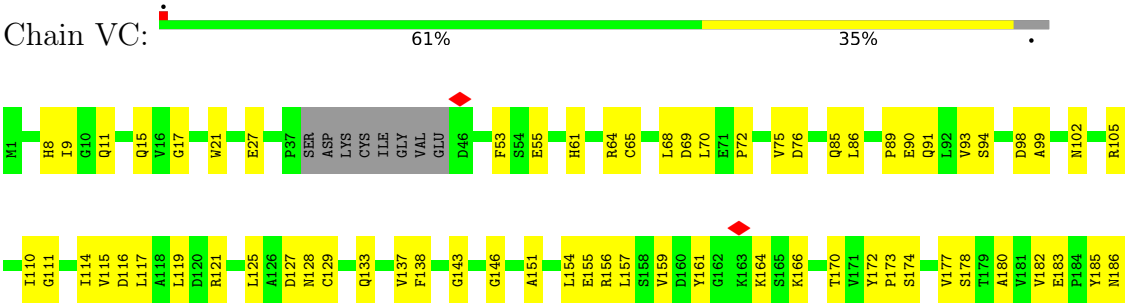
• Molecule 2: Tubulin alpha chain

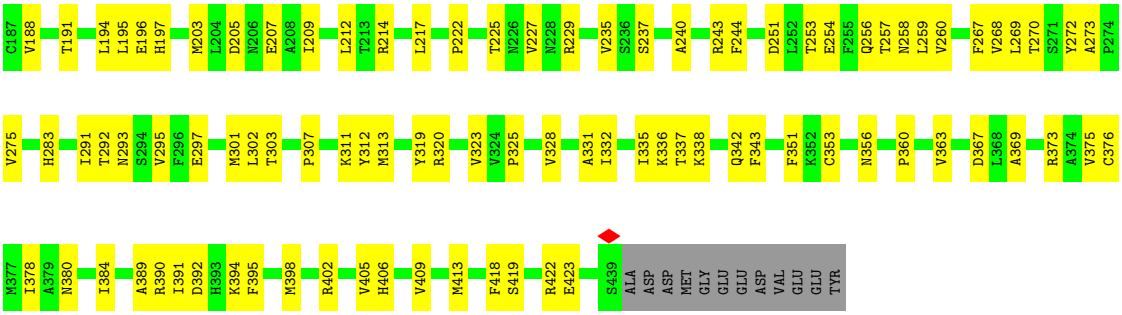
Chain VA:



• Molecule 2: Tubulin alpha chain

Chain VC:





• Molecule 2: Tubulin alpha chain

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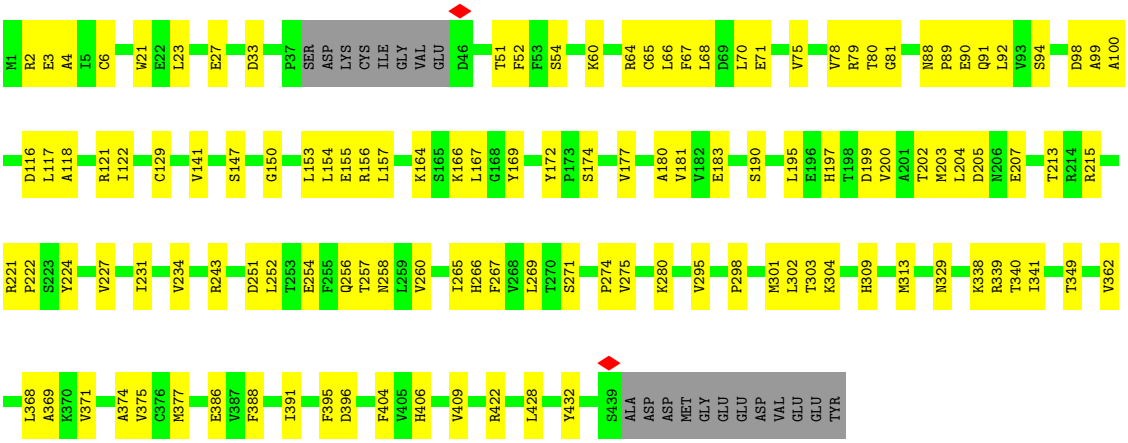
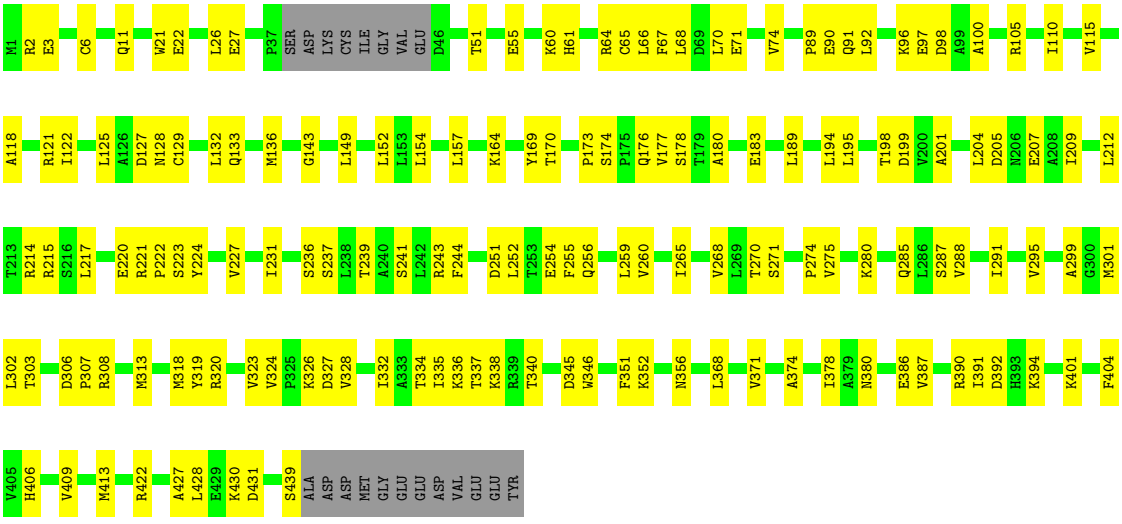


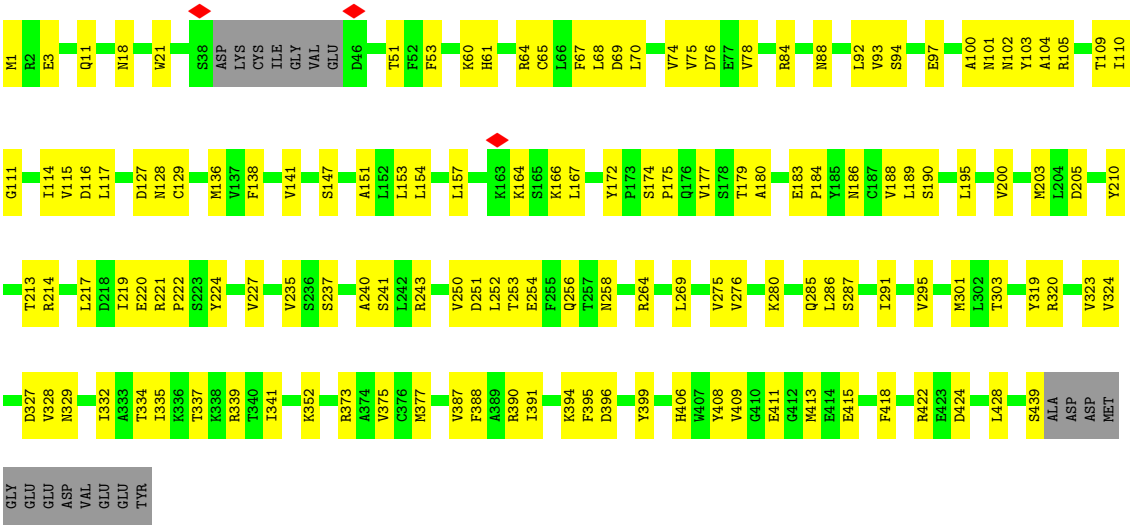
• Molecule 2: Tubulin alpha chain

Chain VG:



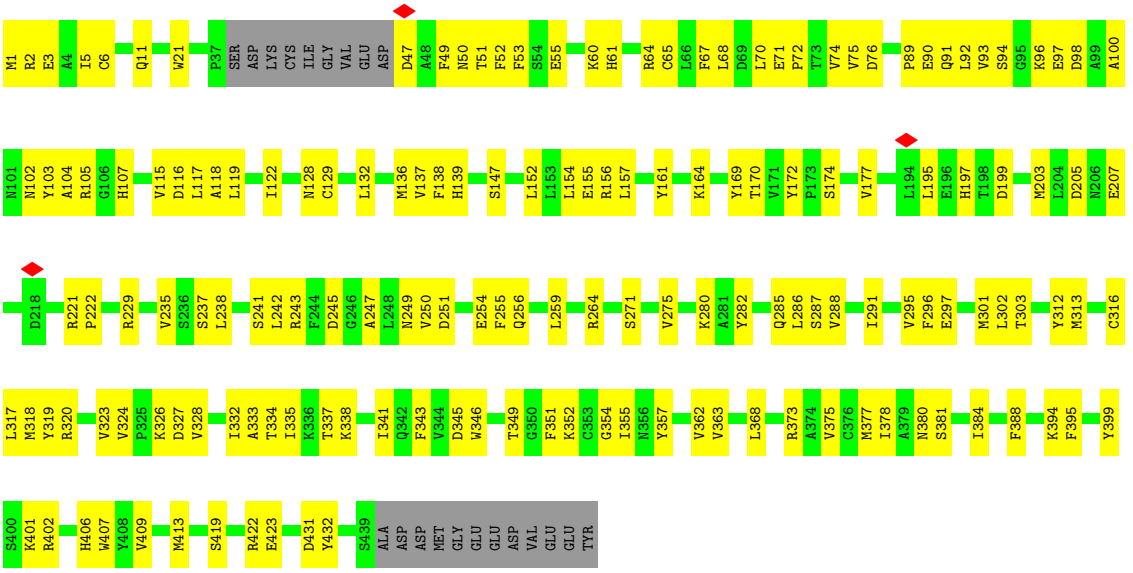
• Molecule 2: Tubulin alpha chain

Chain VI:



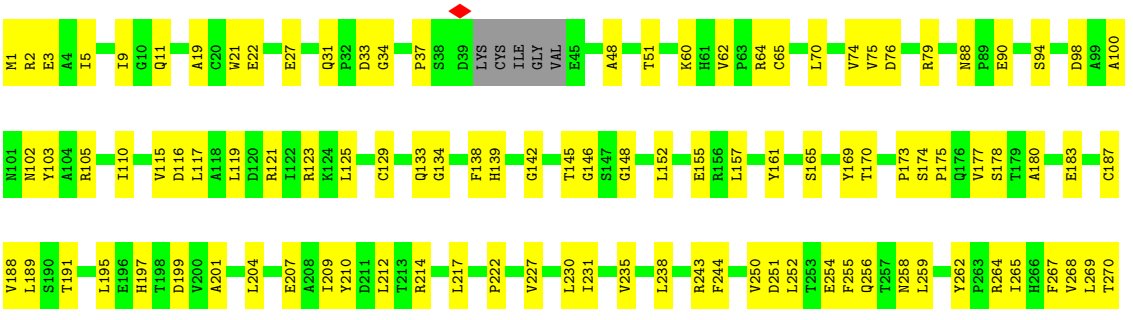
• Molecule 2: Tubulin alpha chain

Chain VK:



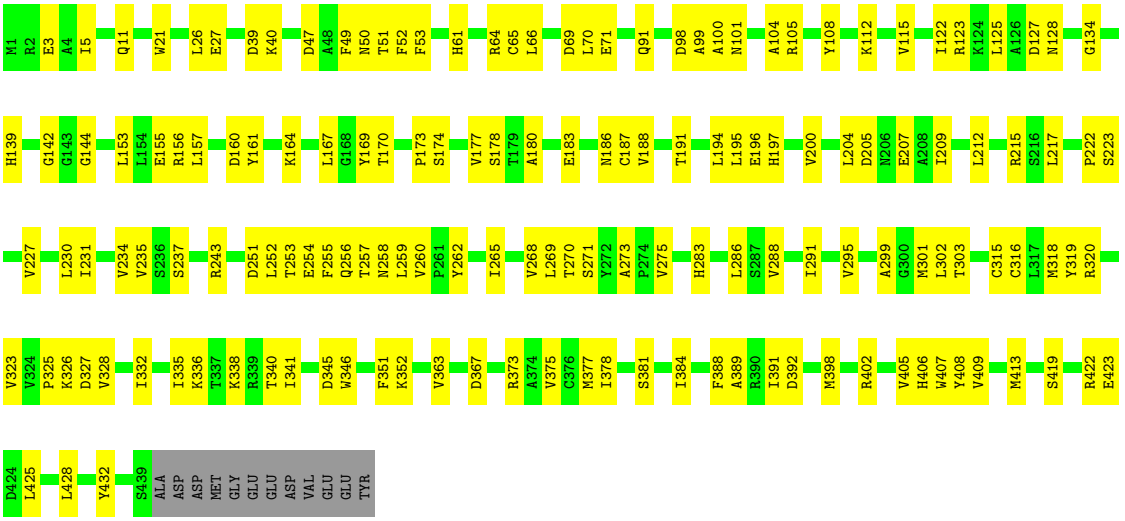
• Molecule 2: Tubulin alpha chain

Chain VM:



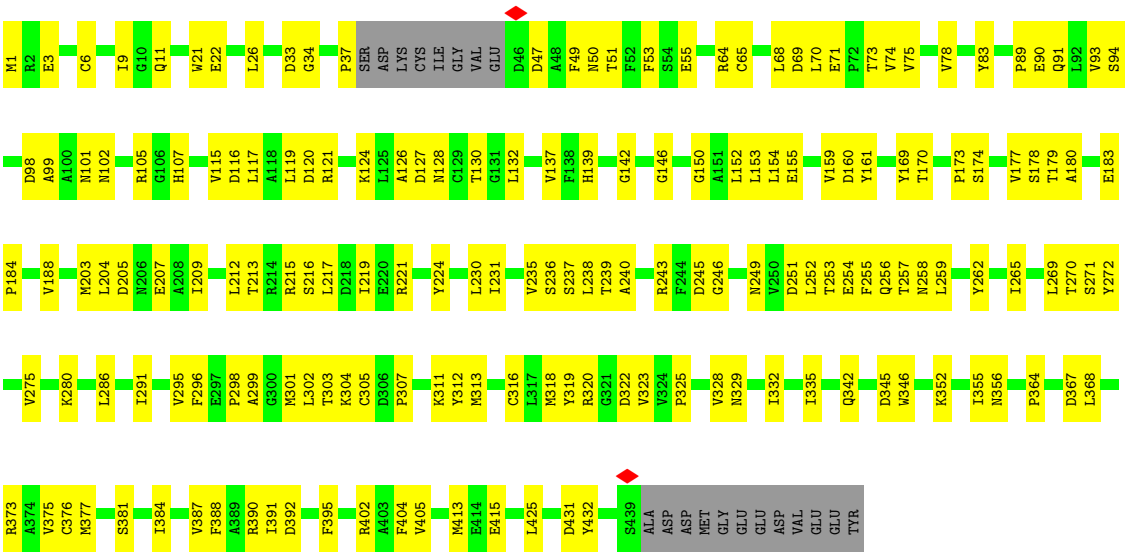
• Molecule 2: Tubulin alpha chain

Chain WA:



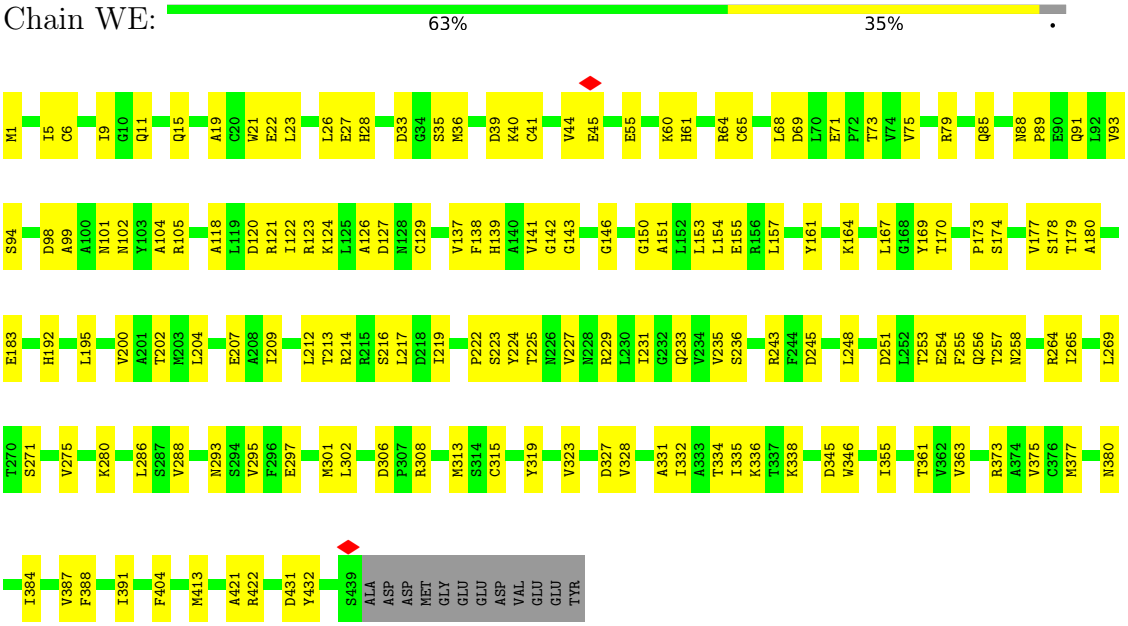
• Molecule 2: Tubulin alpha chain

Chain WC:



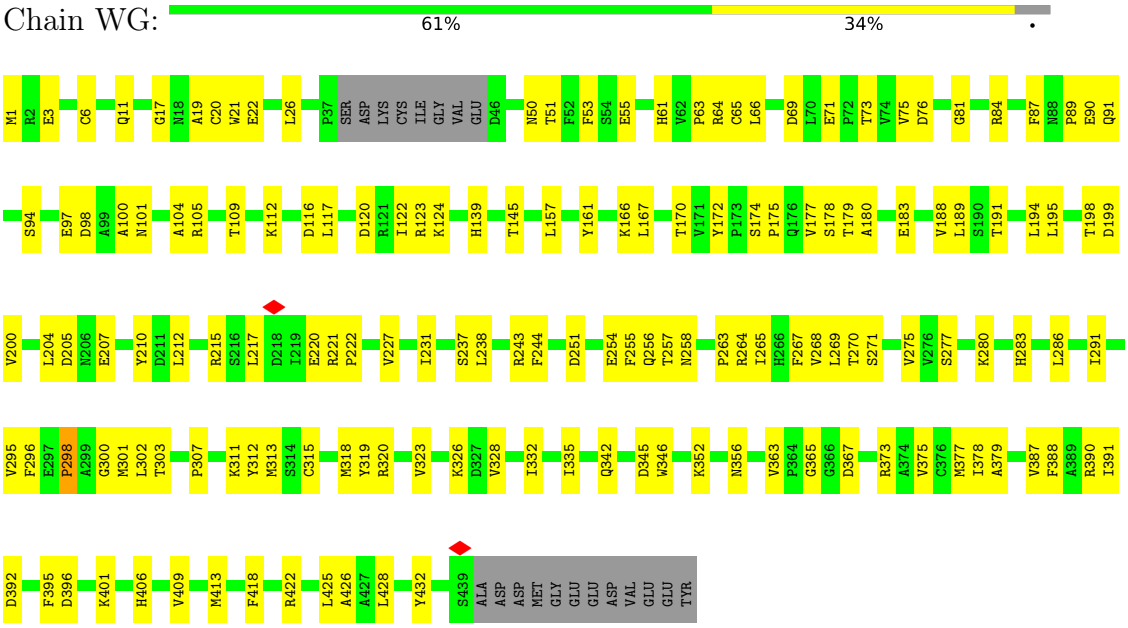
• Molecule 2: Tubulin alpha chain

Chain WE:



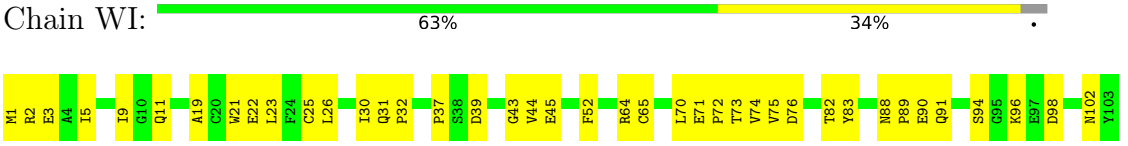
• Molecule 2: Tubulin alpha chain

Chain WG:



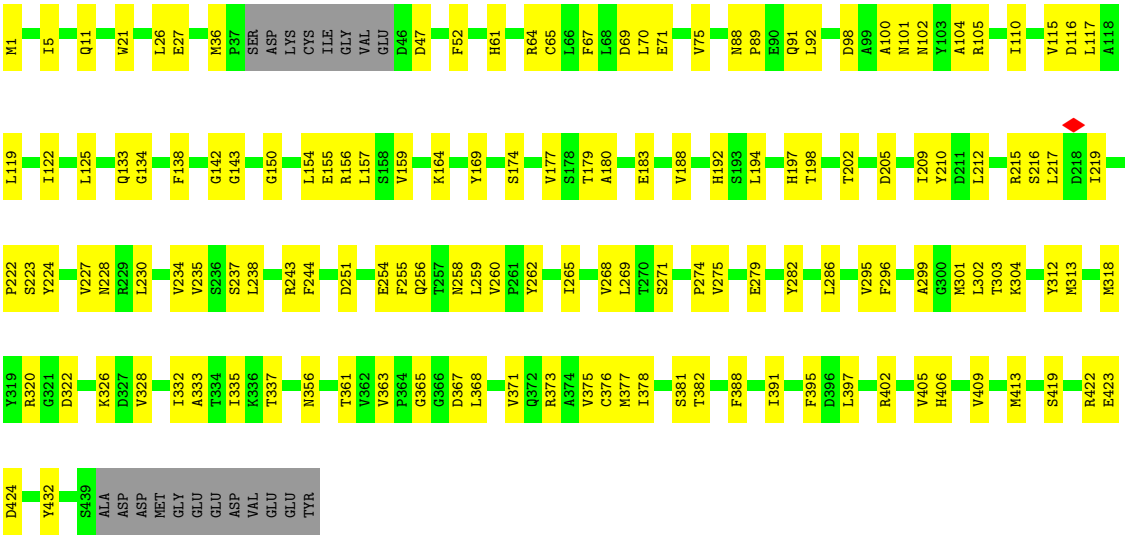
• Molecule 2: Tubulin alpha chain

Chain WI:



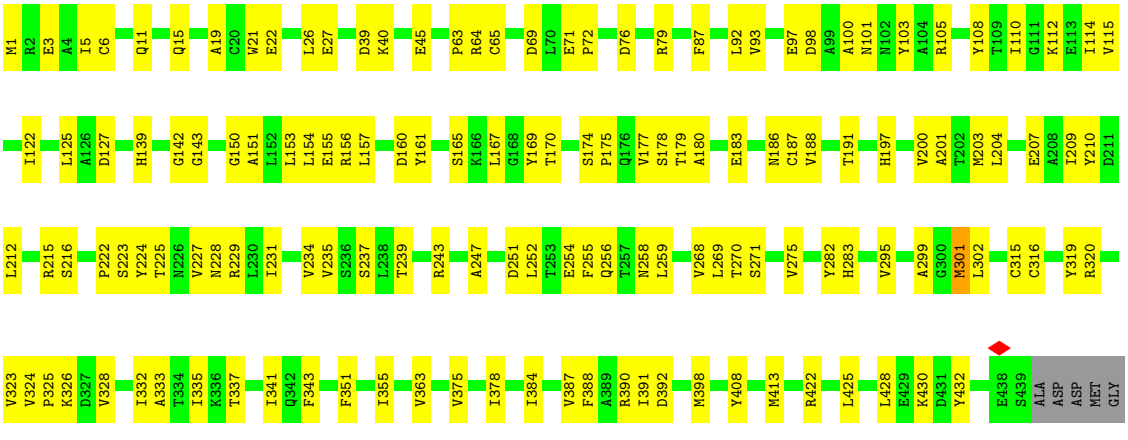
• Molecule 2: Tubulin alpha chain

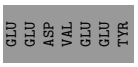
Chain WK:



• Molecule 2: Tubulin alpha chain

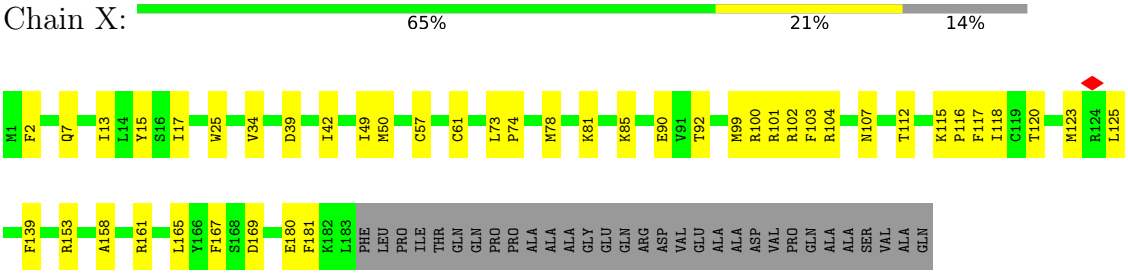
Chain WM:





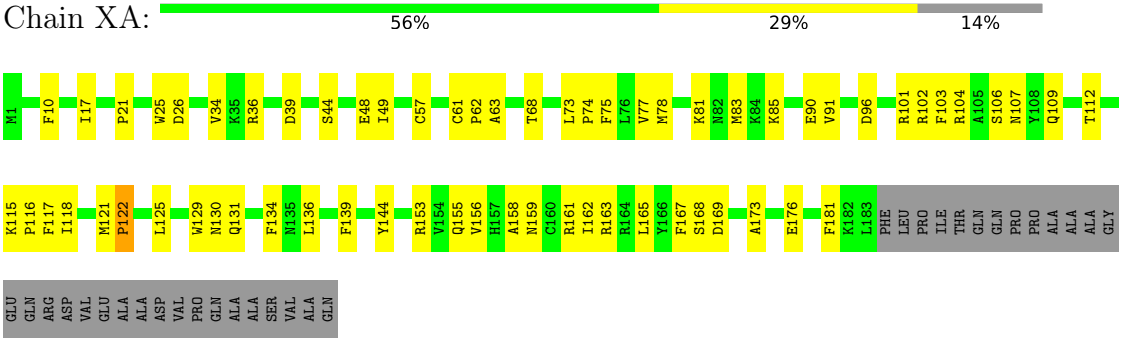
• Molecule 3: CFAP20

Chain X:



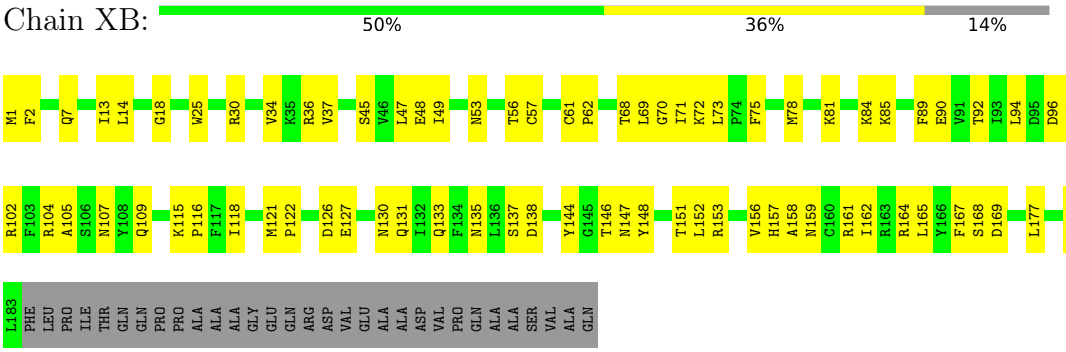
• Molecule 3: CFAP20

Chain XA:



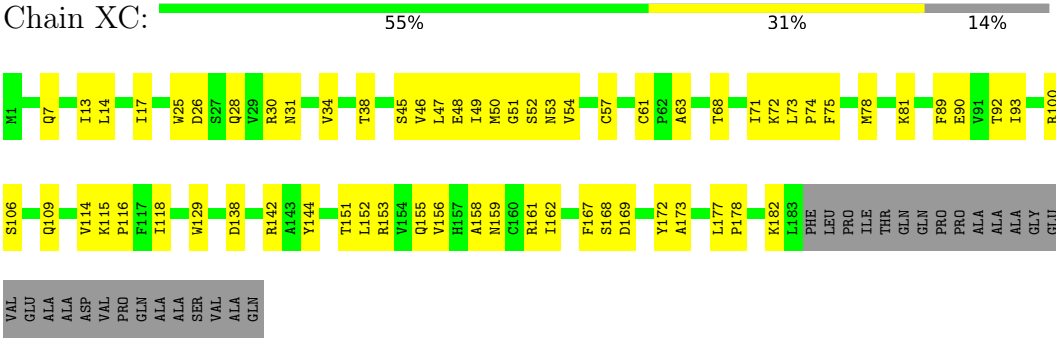
• Molecule 3: CFAP20

Chain XB:



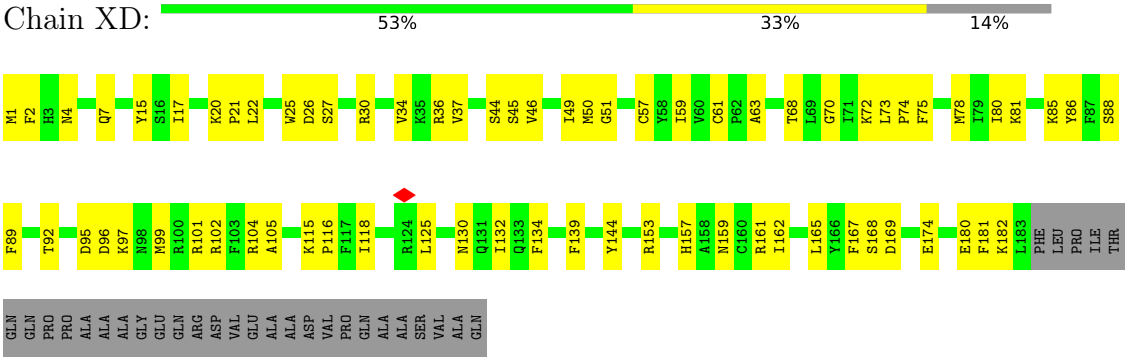
• Molecule 3: CFAP20

Chain XC:



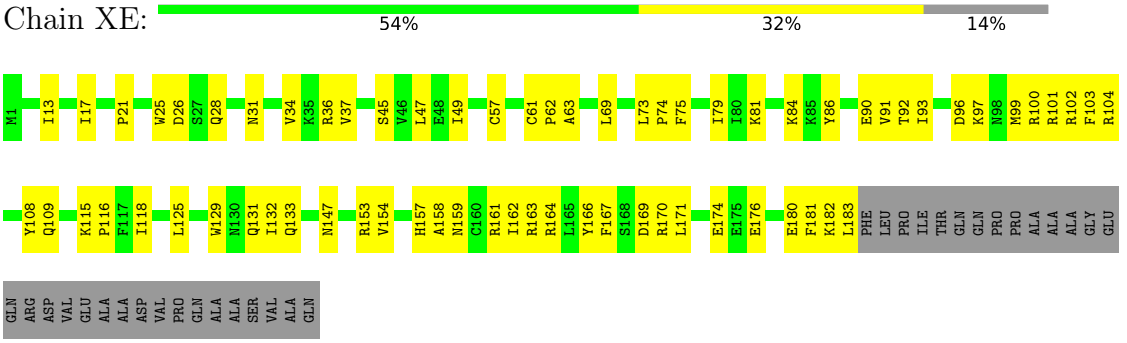
• Molecule 3: CFAP20

Chain XD:



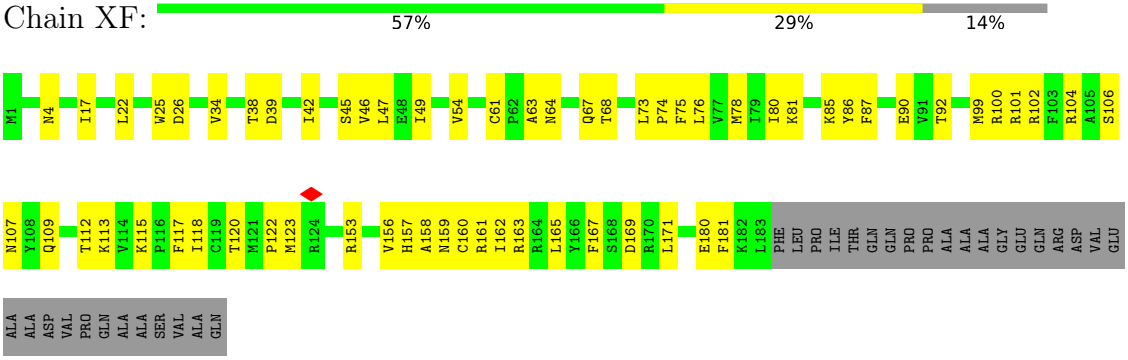
• Molecule 3: CFAP20

Chain XE:



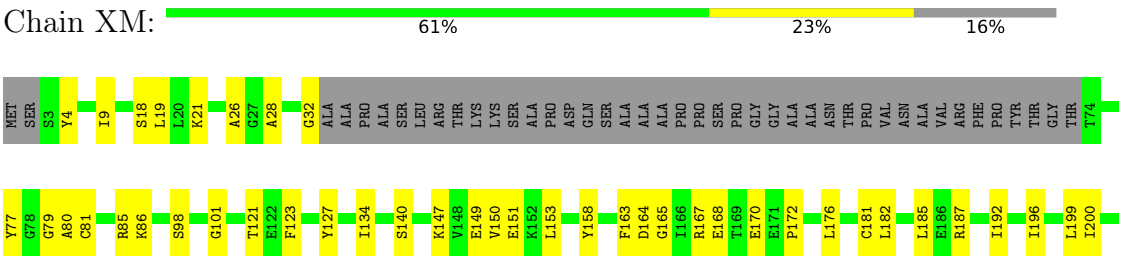
• Molecule 3: CFAP20

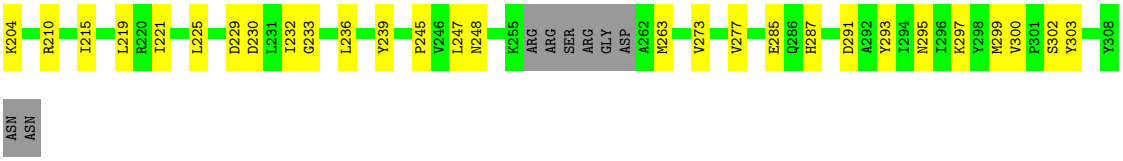
Chain XF:



• Molecule 4: PACRGA

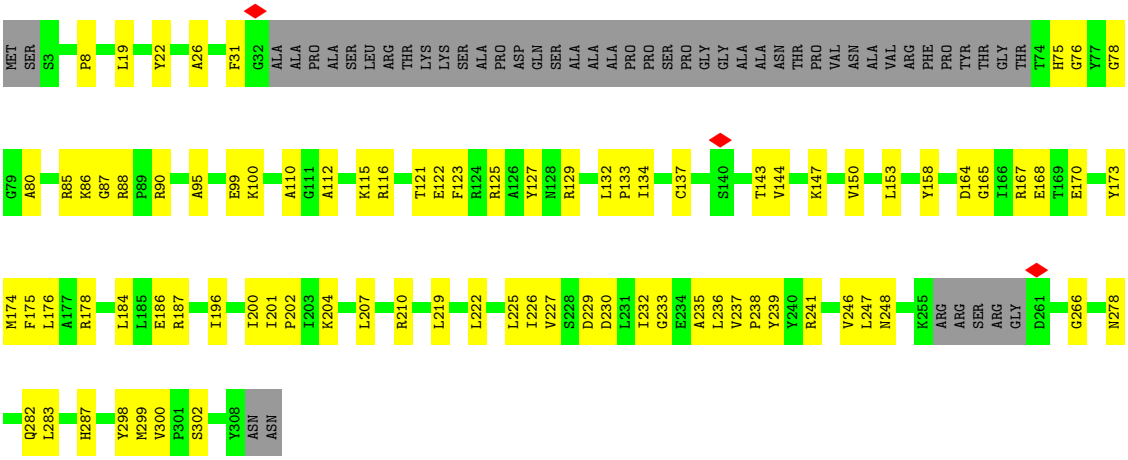
Chain XM:





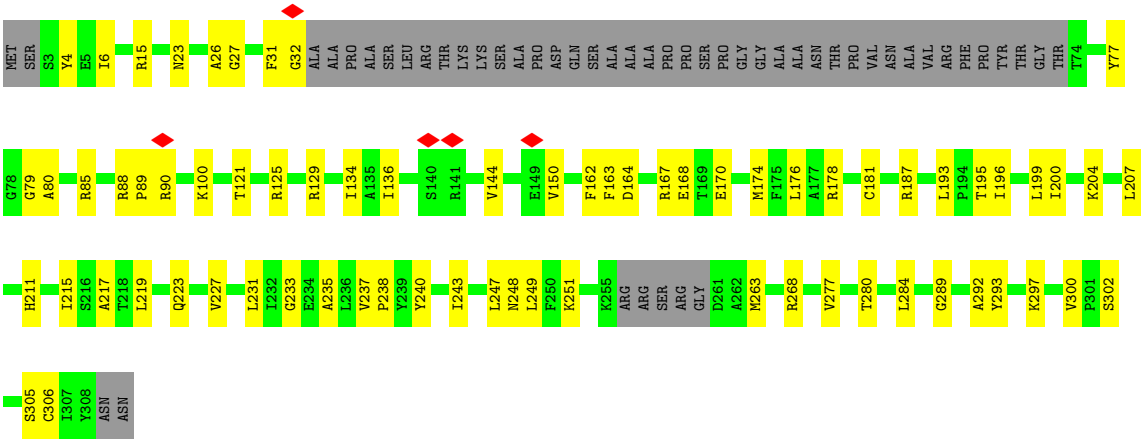
• Molecule 4: PACRGA

Chain XO:



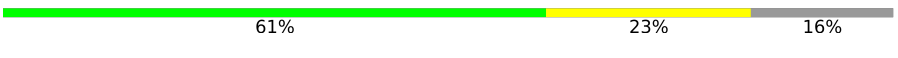
• Molecule 4: PACRGA

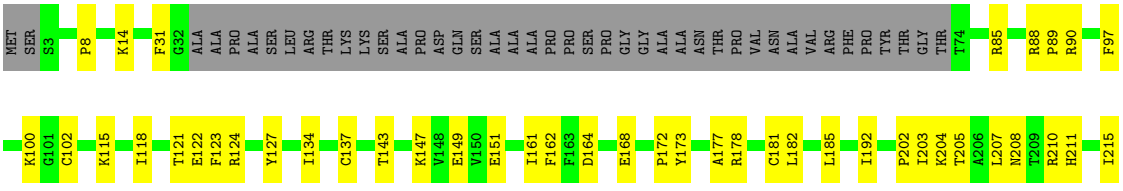
Chain XQ:

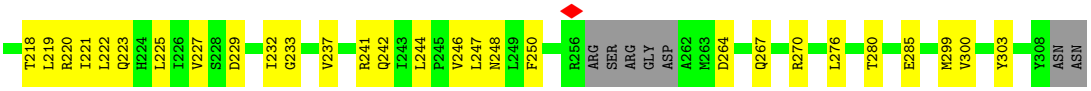


• Molecule 4: PACRGA

Chain XR:

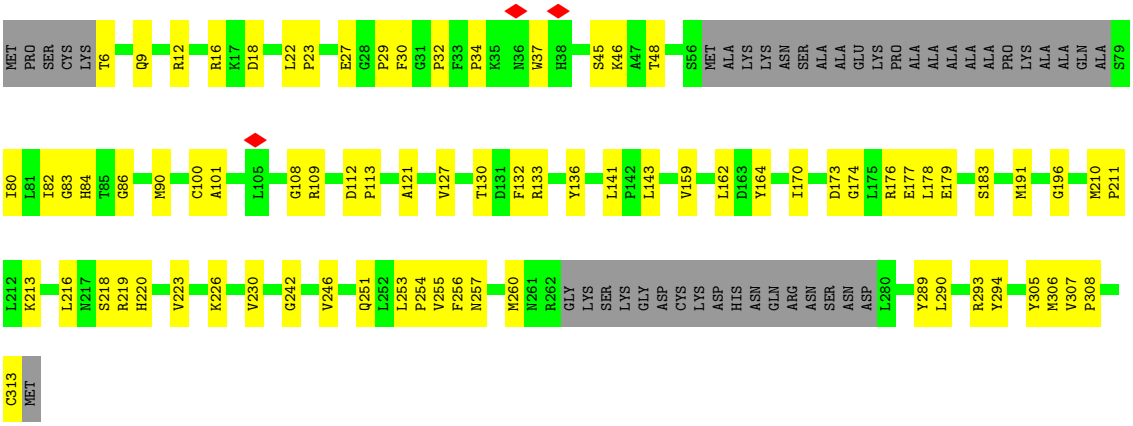






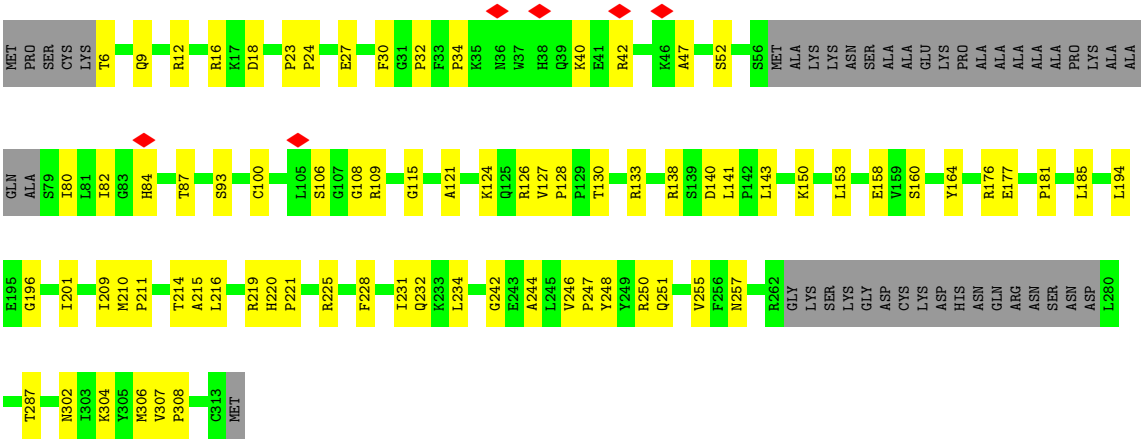
• Molecule 5: PACRGB

Chain XN:



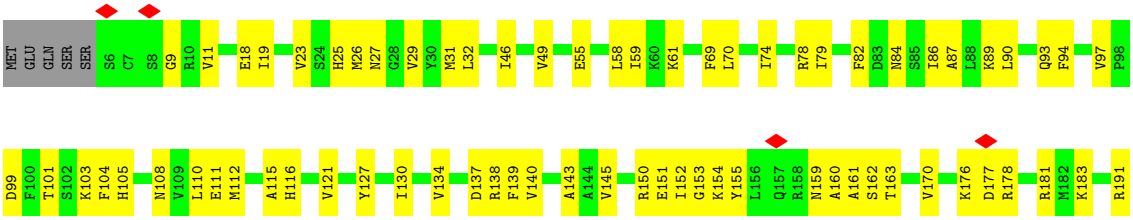
• Molecule 5: PACRGB

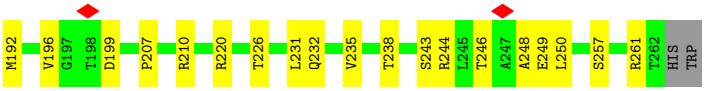
Chain XP:



• Molecule 6: CCDC81

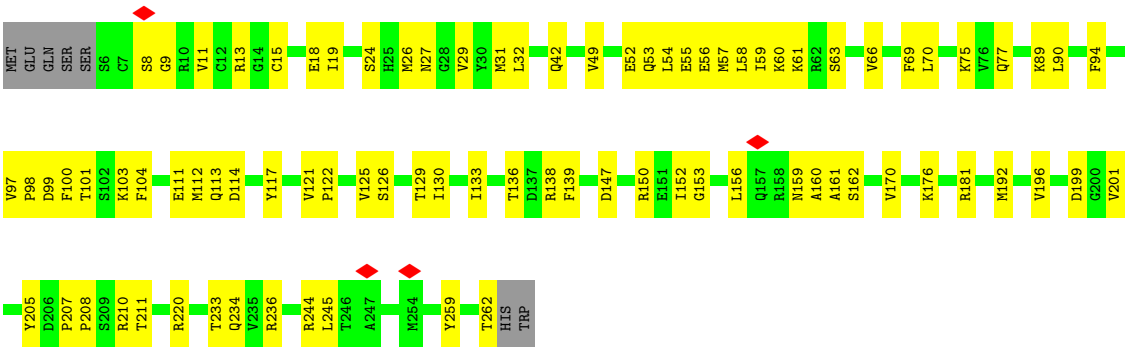
Chain 0A:





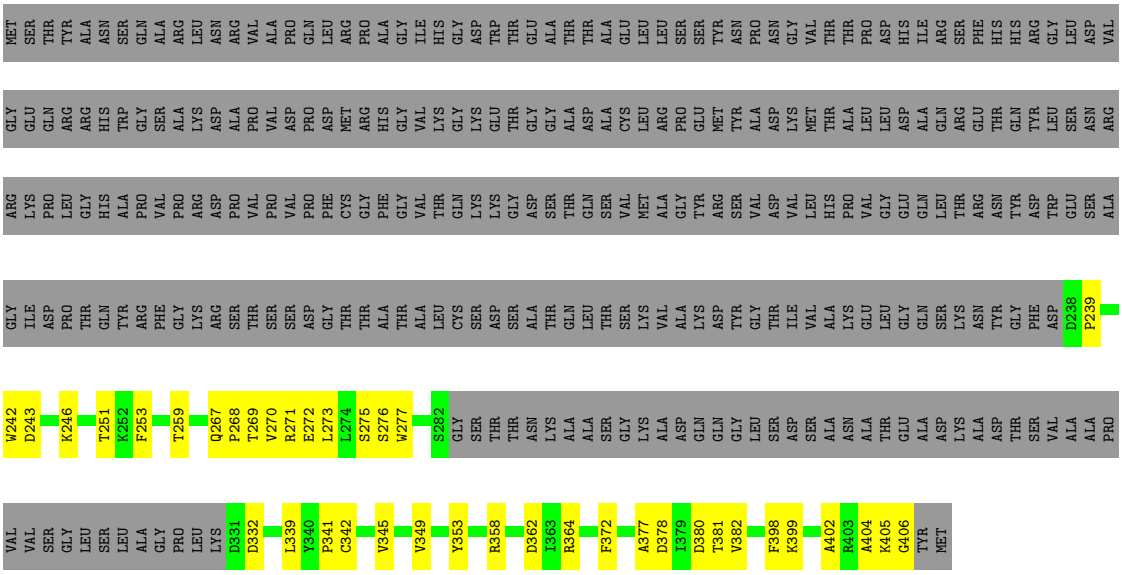
• Molecule 6: CCDC81

Chain 0:



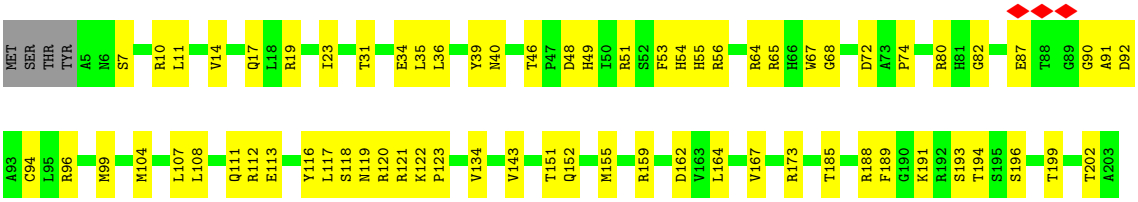
• Molecule 7: CFAP21

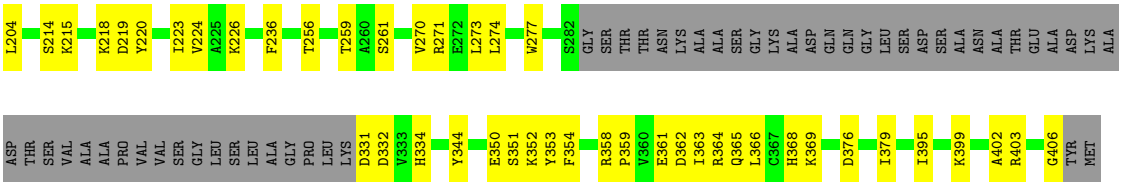
Chain 0C:



• Molecule 7: CFAP21

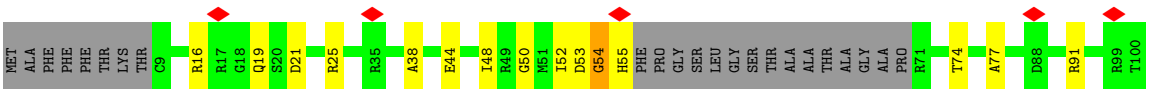
Chain 0D:

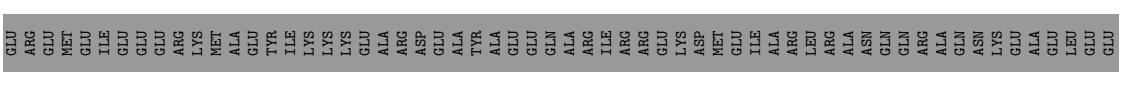




• Molecule 8: CFAP45

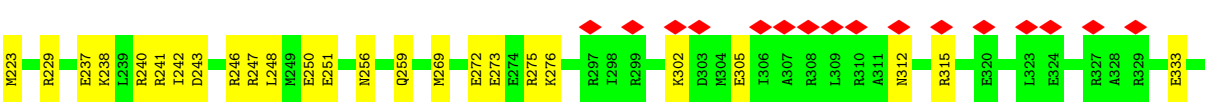
Chain 0F:

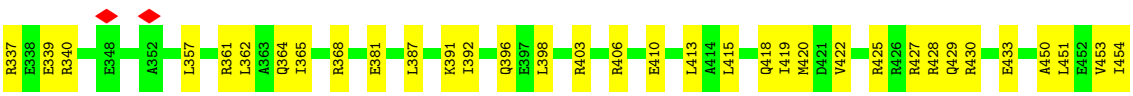




• Molecule 8: CFAP45

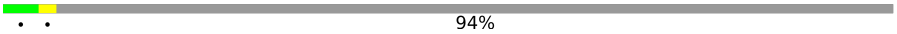
Chain 0G:

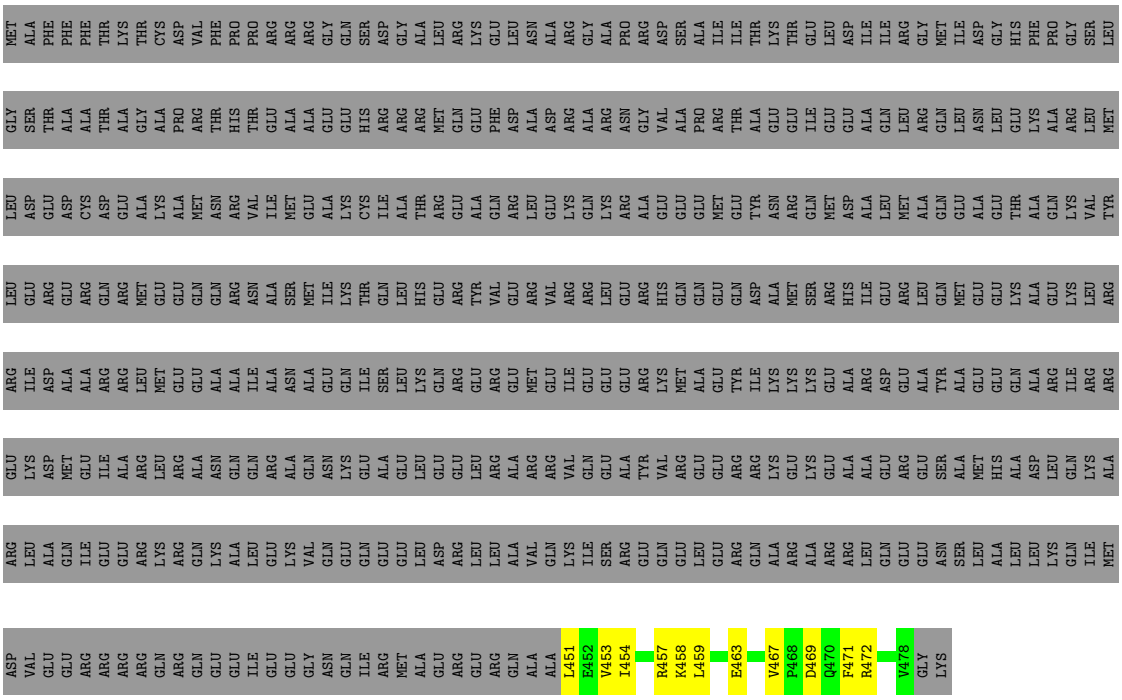




• Molecule 8: CFAP45

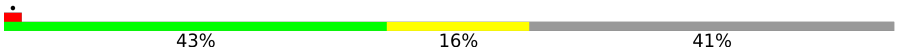
Chain 0H:

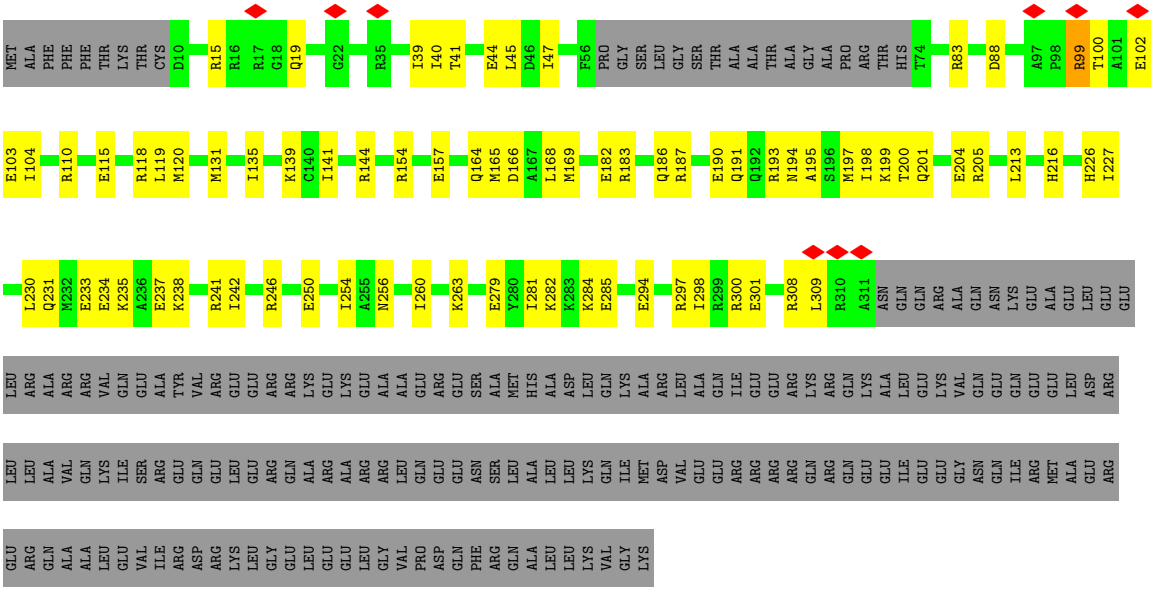




• Molecule 8: CFAP45

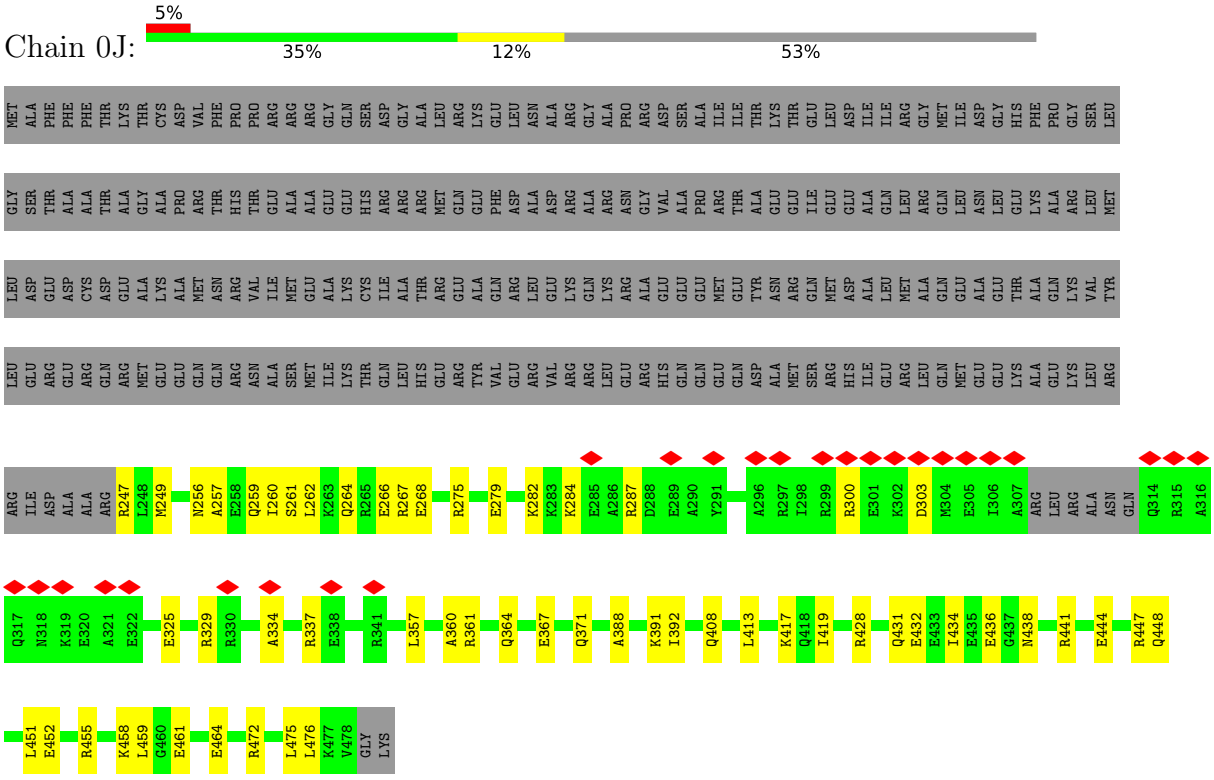
Chain 0I:





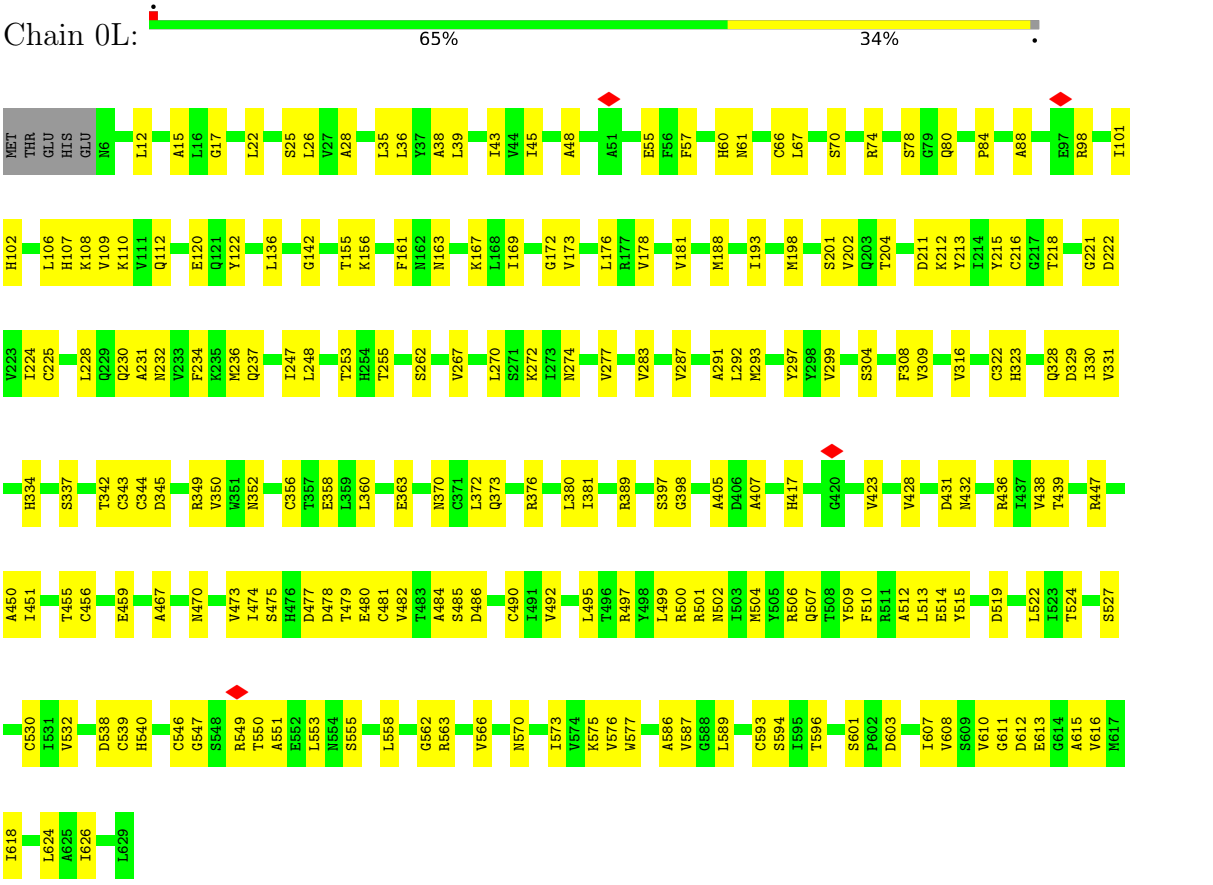
• Molecule 8: CFAP45

Chain 0J:



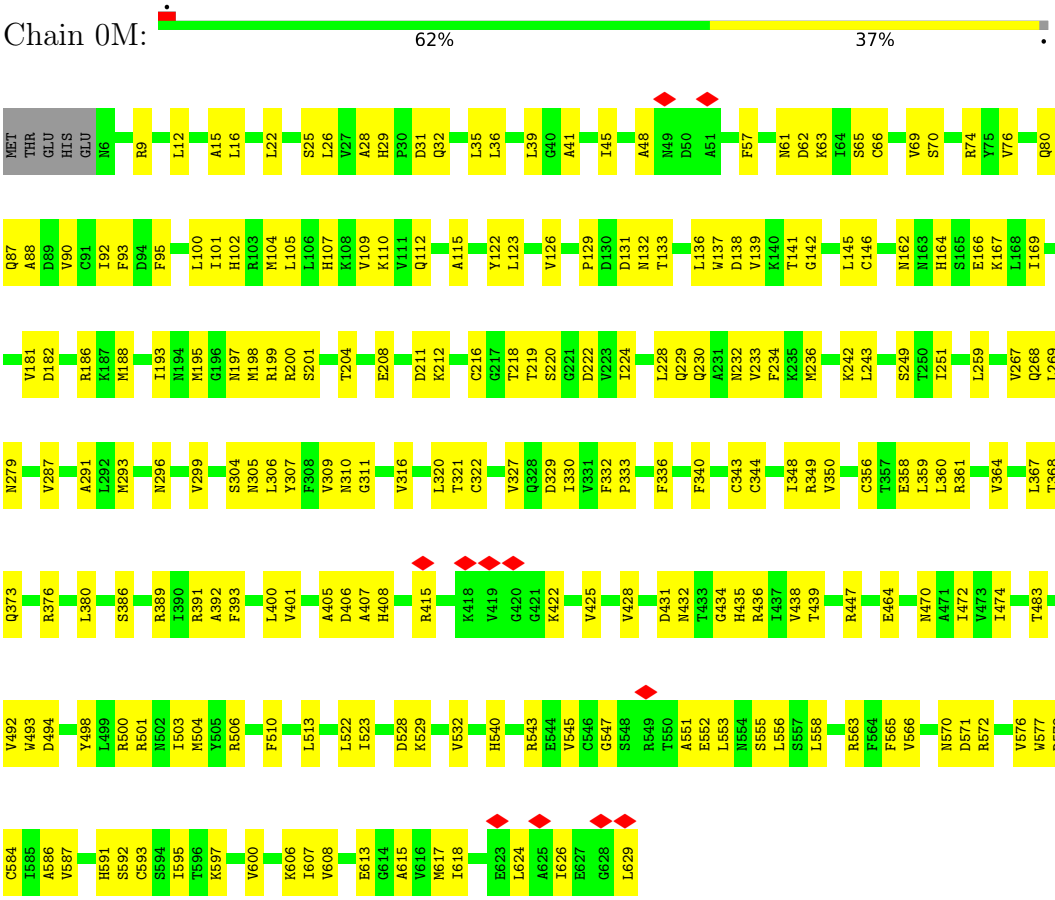
• Molecule 9: CFAP52

Chain 0L:



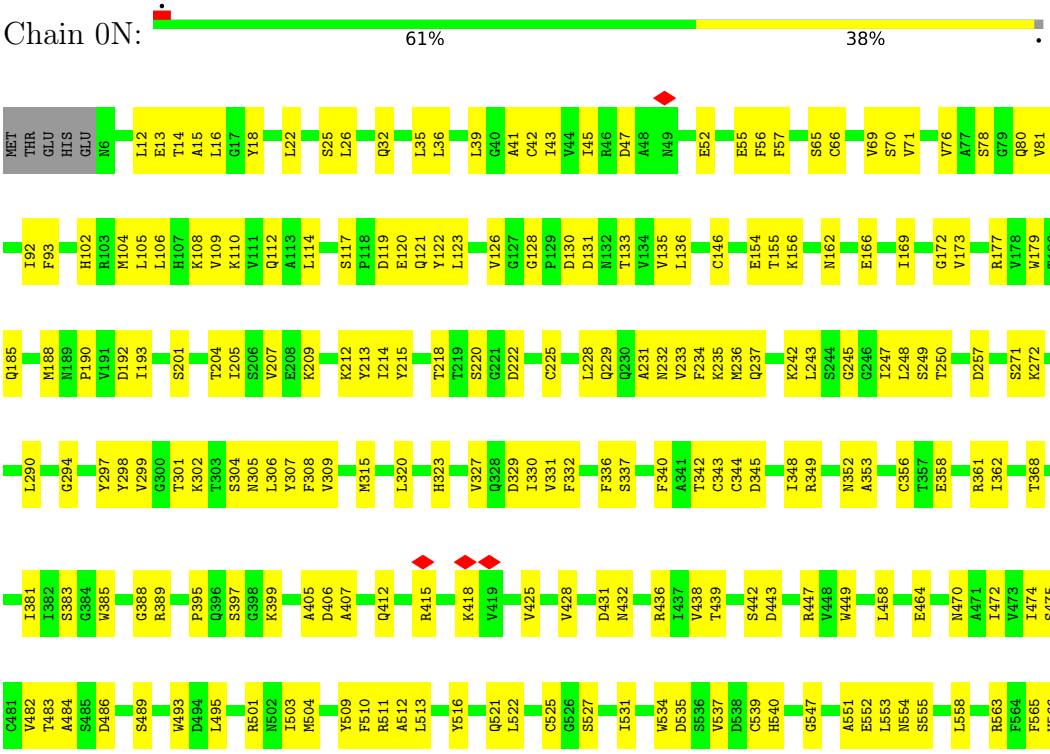
• Molecule 9: CFAP52

Chain 0M:



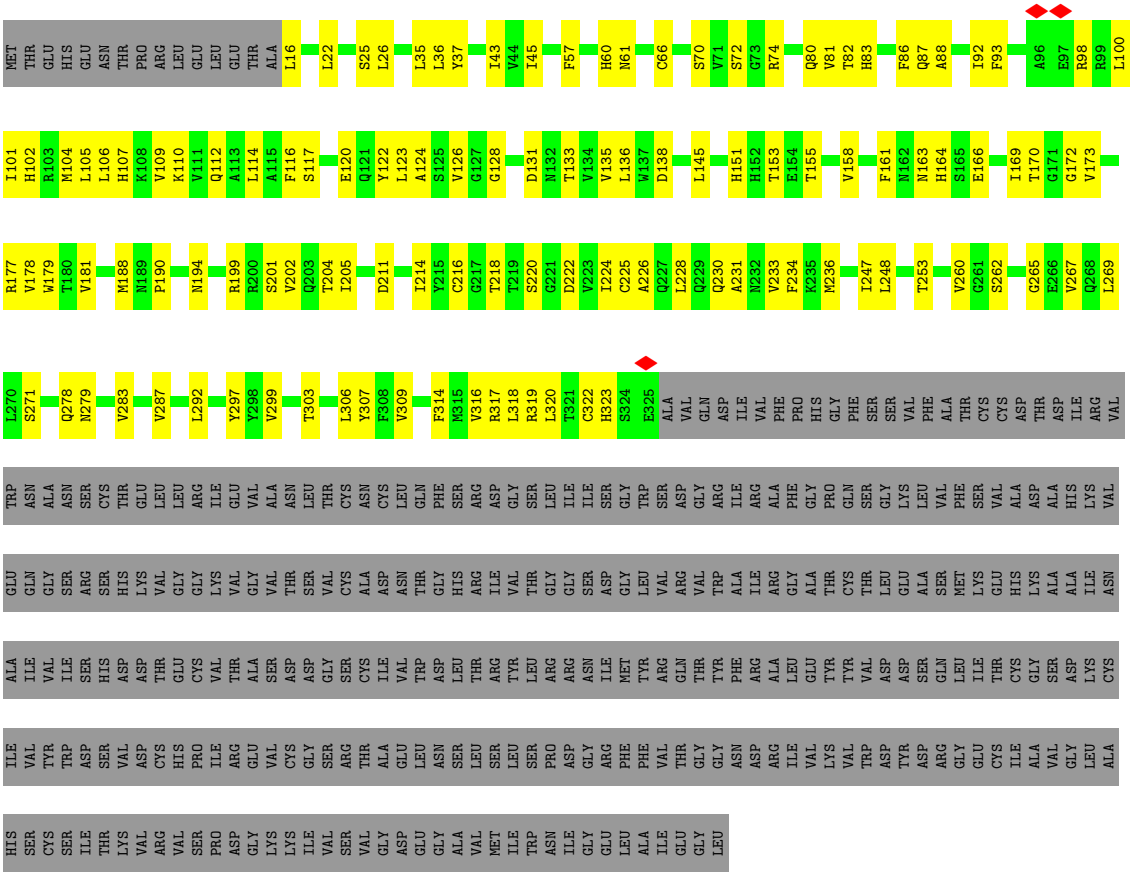
• Molecule 9: CFAP52

Chain 0N:



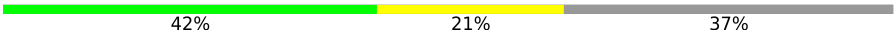
• Molecule 9: CFAP52

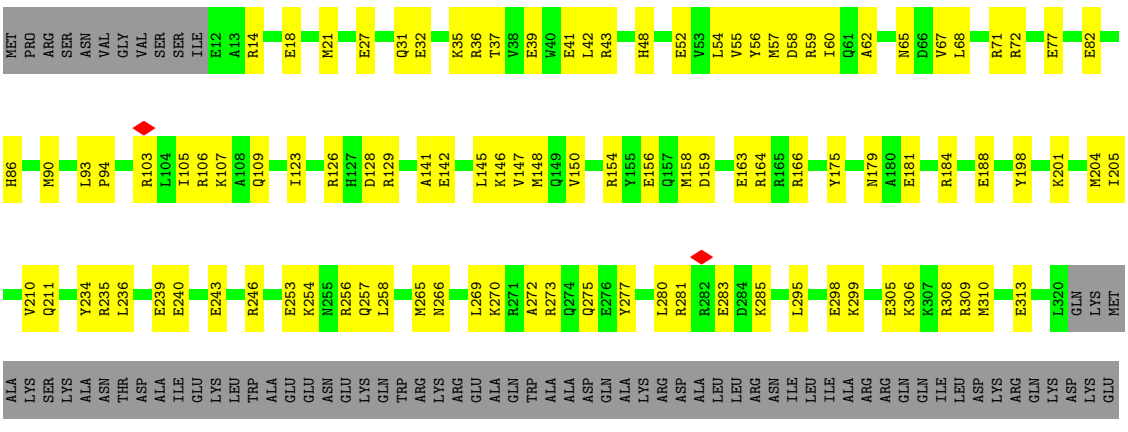
Chain 0O:

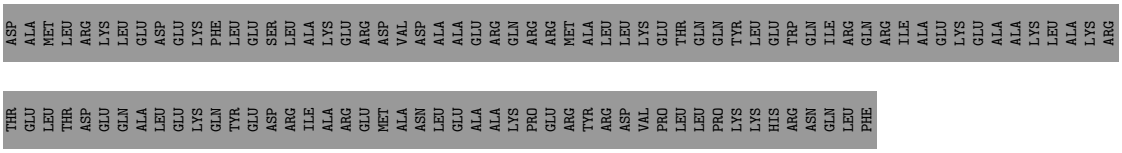


• Molecule 10: CFAP53

Chain 0R:

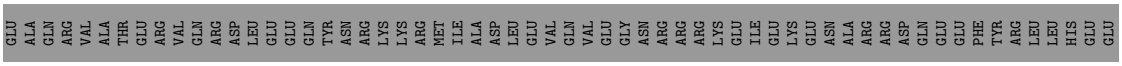


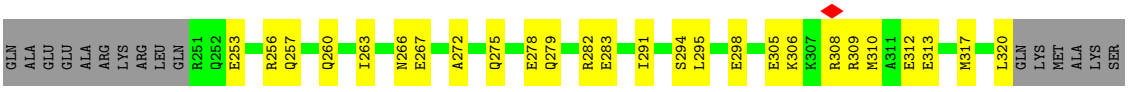


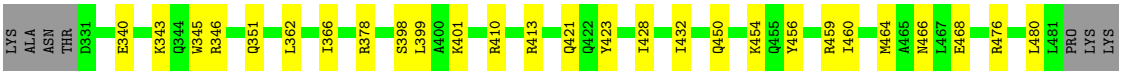


• Molecule 10: CFAP53

Chain 0S:

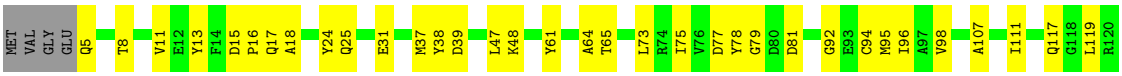


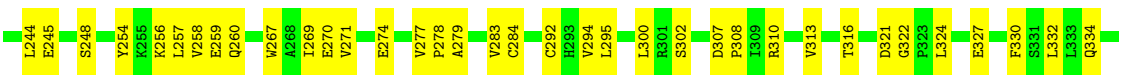




• Molecule 11: CFAP67A

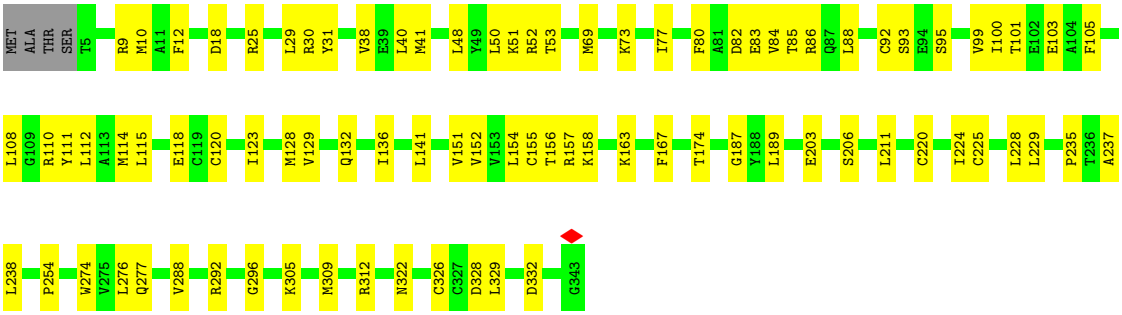
Chain 0U:





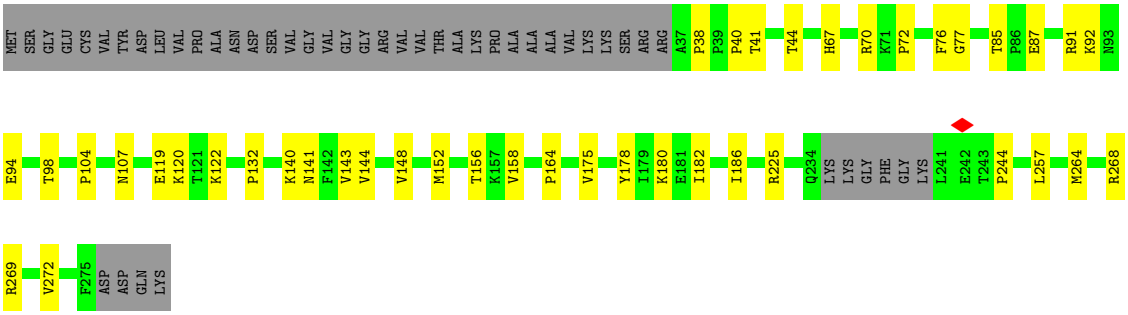
• Molecule 12: CFAP67B

Chain 0W:



• Molecule 13: CFAP106A

Chain 0Y:

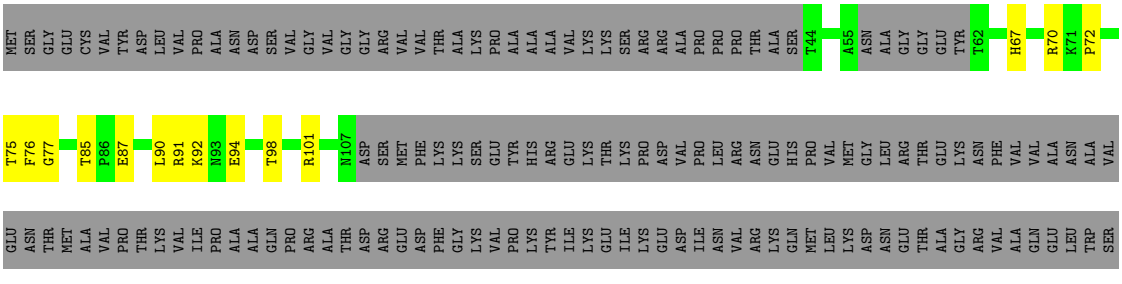


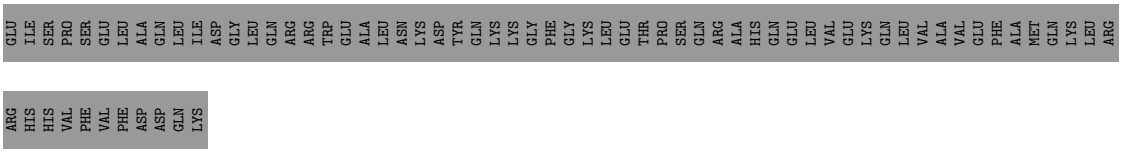
• Molecule 13: CFAP106A

Chain 0Z:

• Molecule 13: CFAP106A

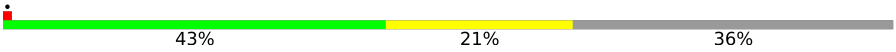
Chain 0a:

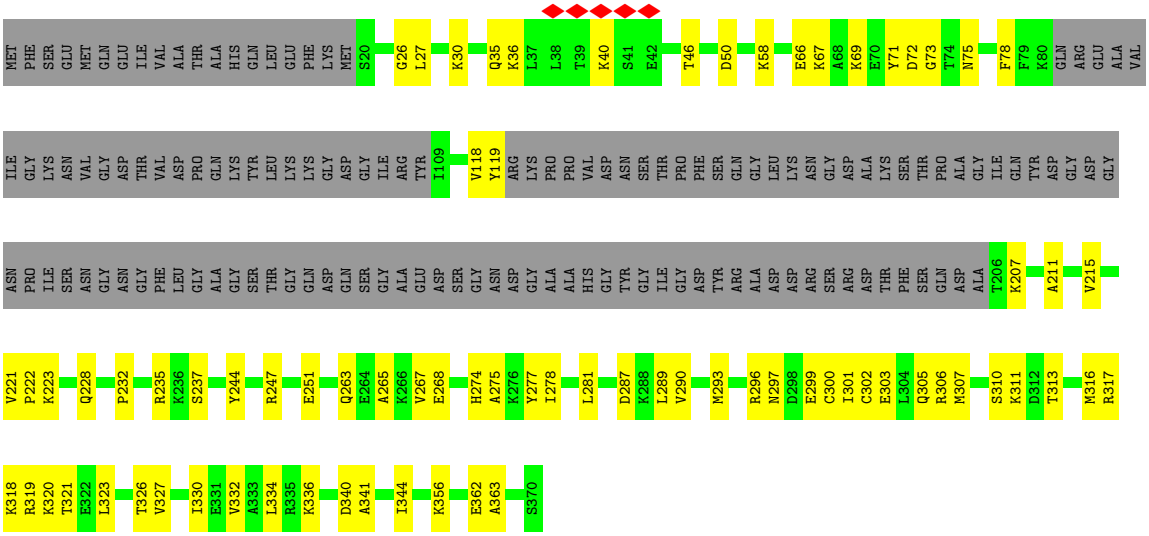




• Molecule 14: CFAP106B

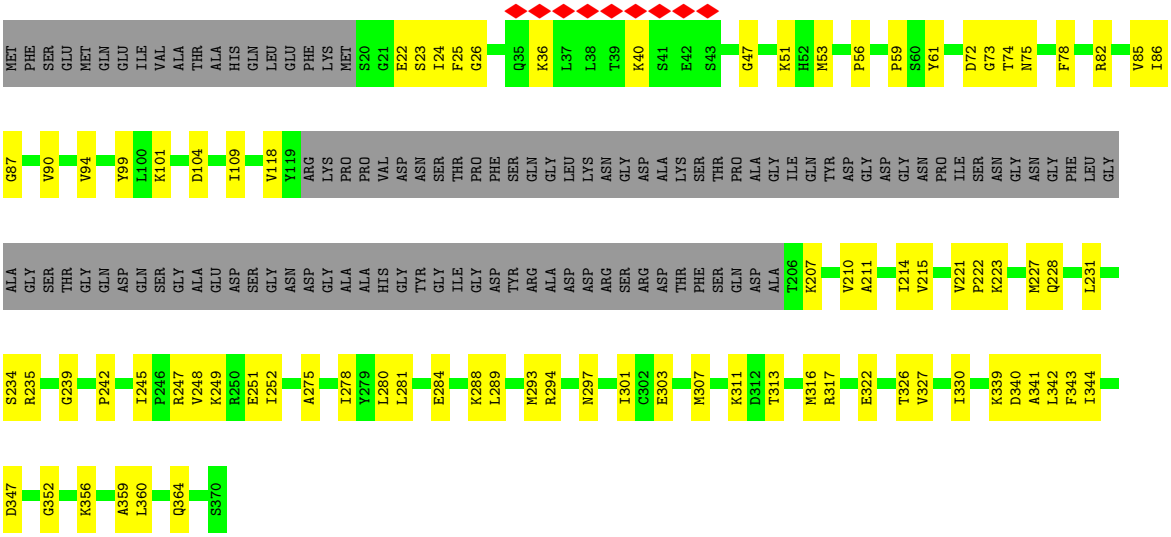
Chain 0c:





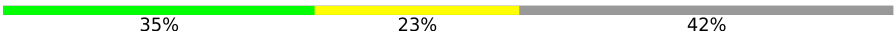
• Molecule 14: CFAP106B

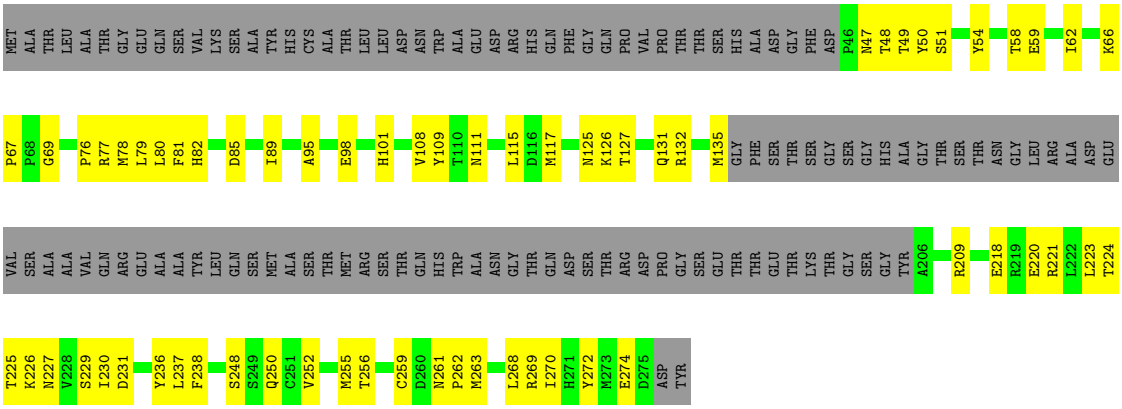
Chain 0d:



• Molecule 15: CFAP107

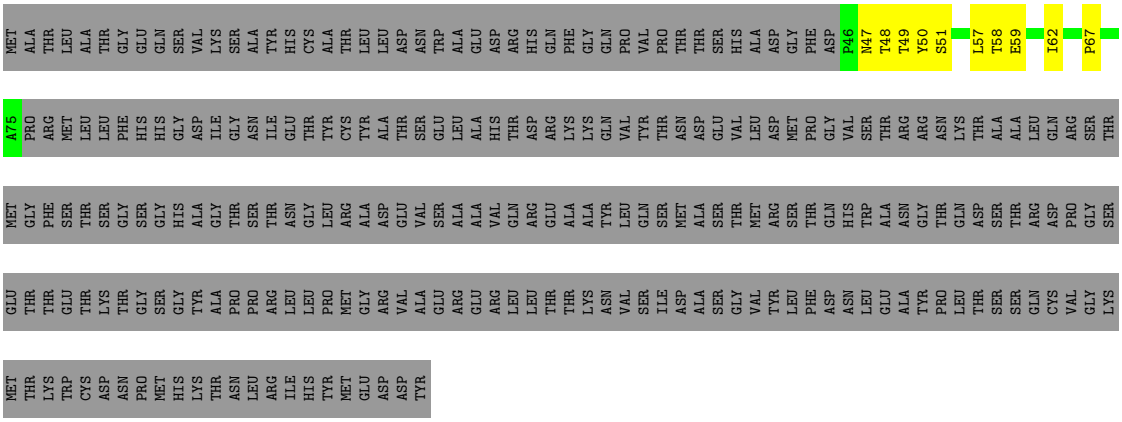
Chain 0f:





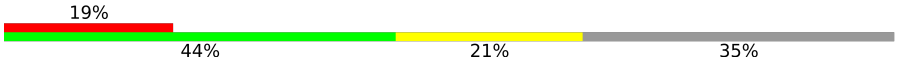
• Molecule 15: CFAP107

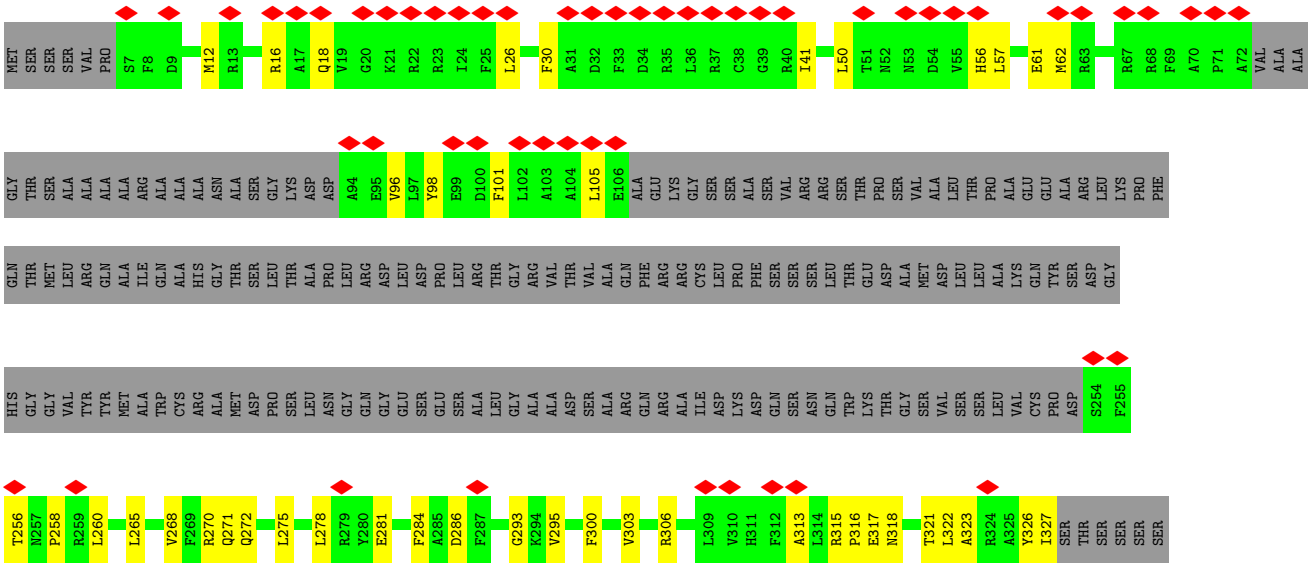
Chain 0g:

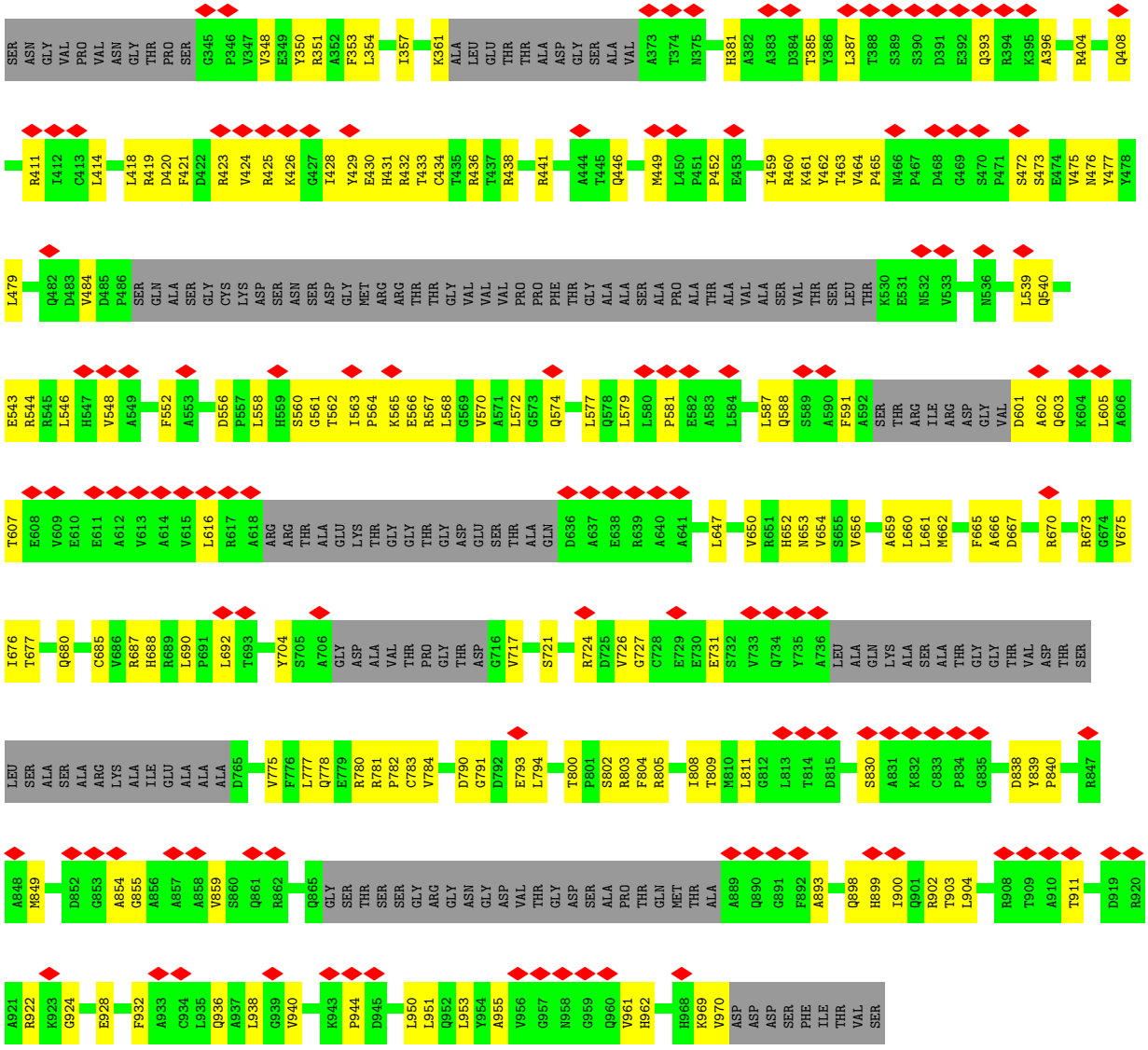


• Molecule 16: CFAP115

Chain 0l:

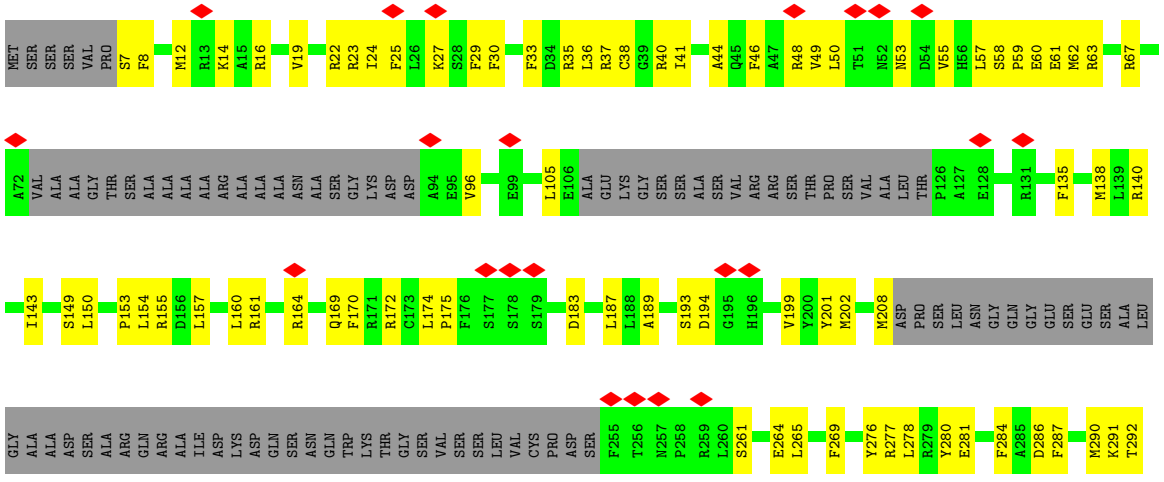


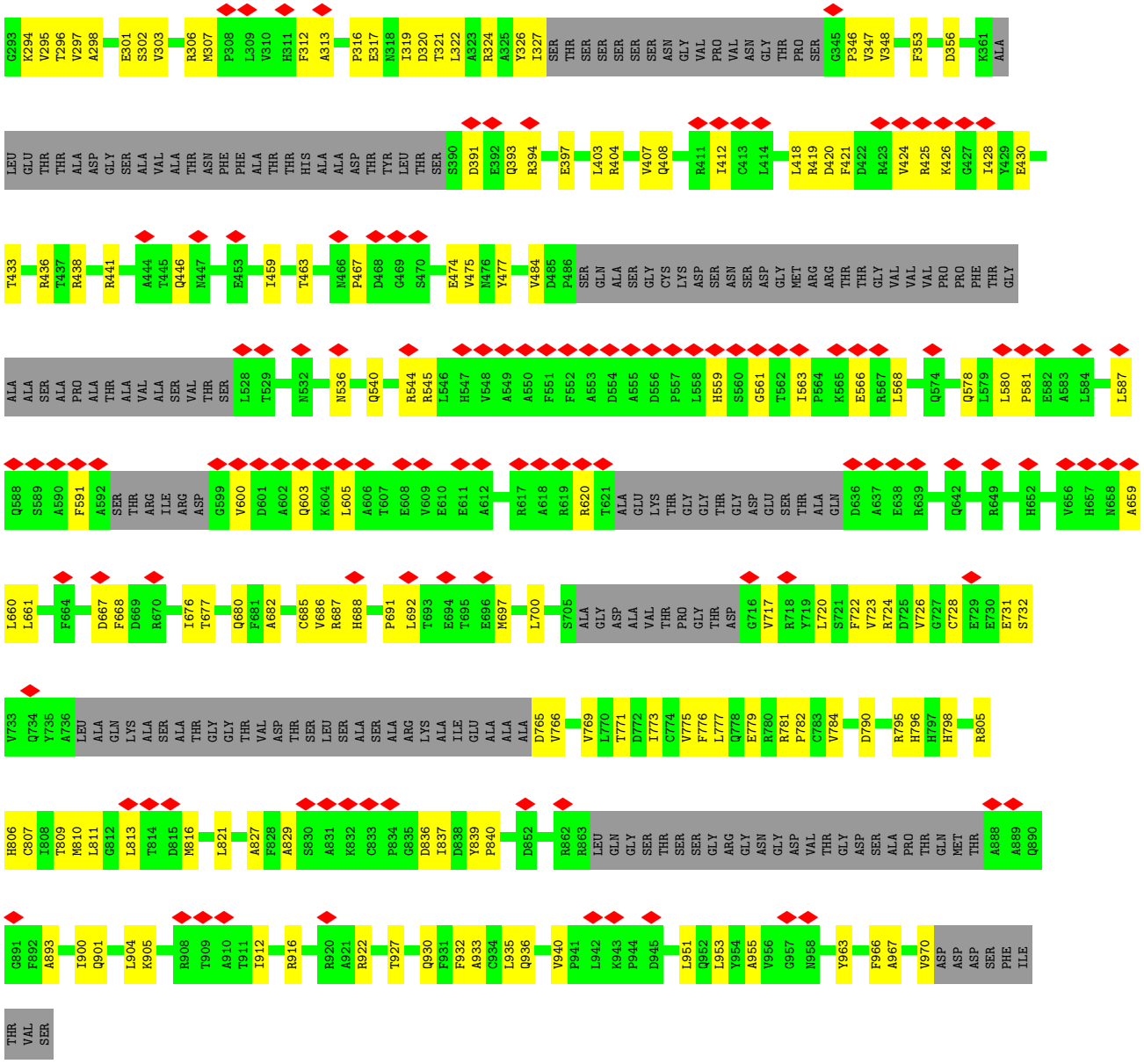




• Molecule 16: CFAP115

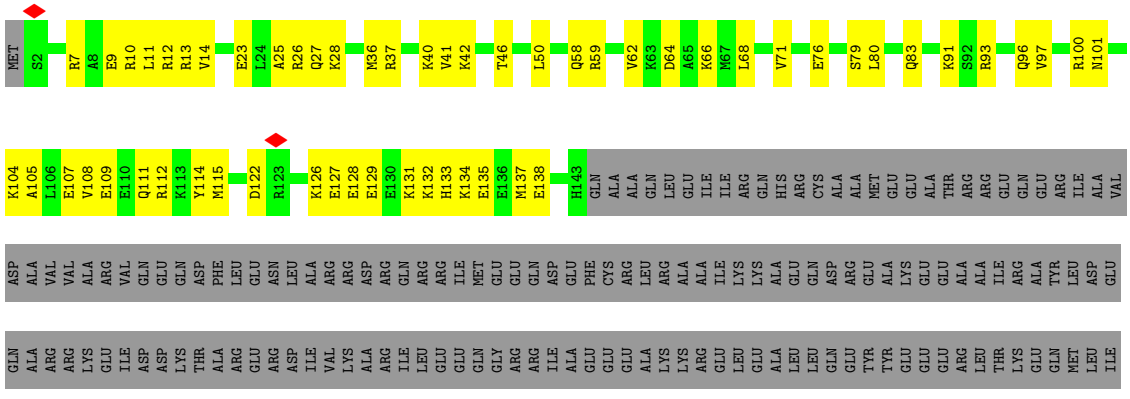
Chain 0k:

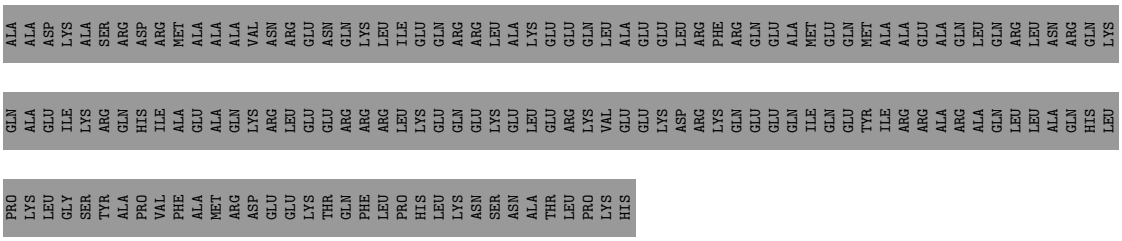




• Molecule 17: CFAP127

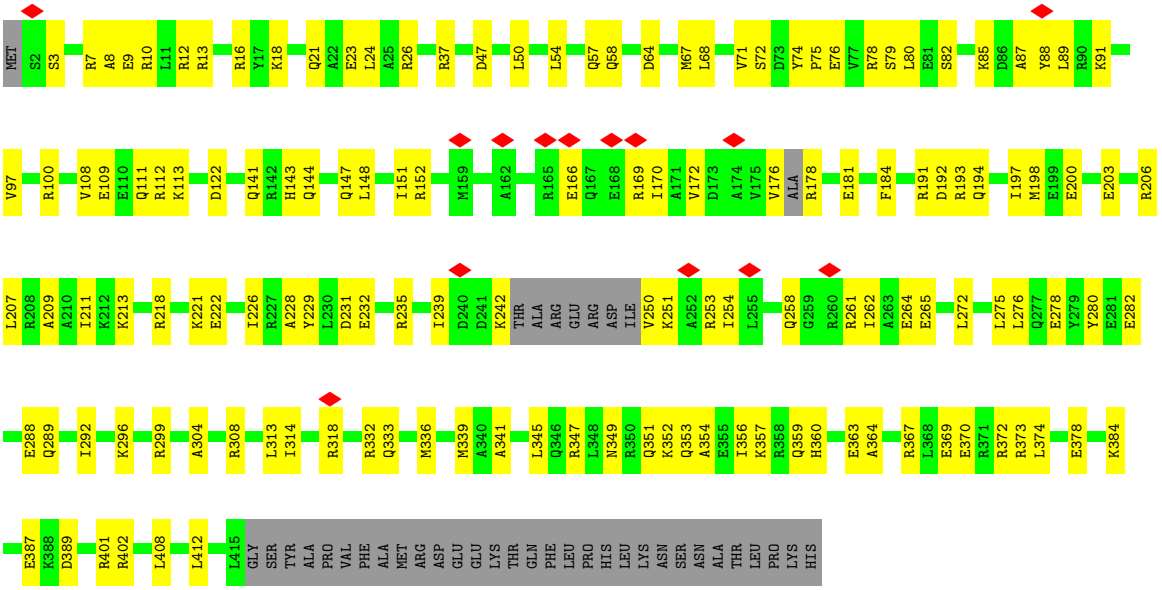
Chain 0m:





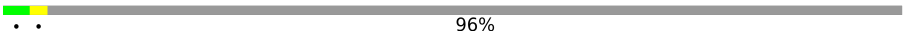
• Molecule 17: CFAP127

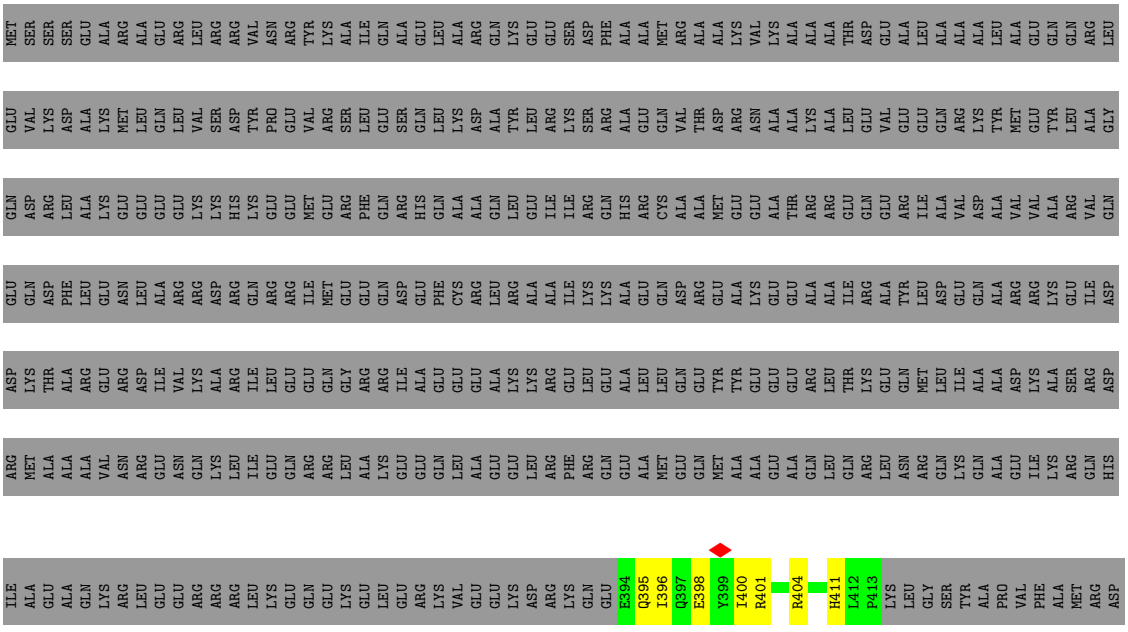
Chain 0n:



• Molecule 17: CFAP127

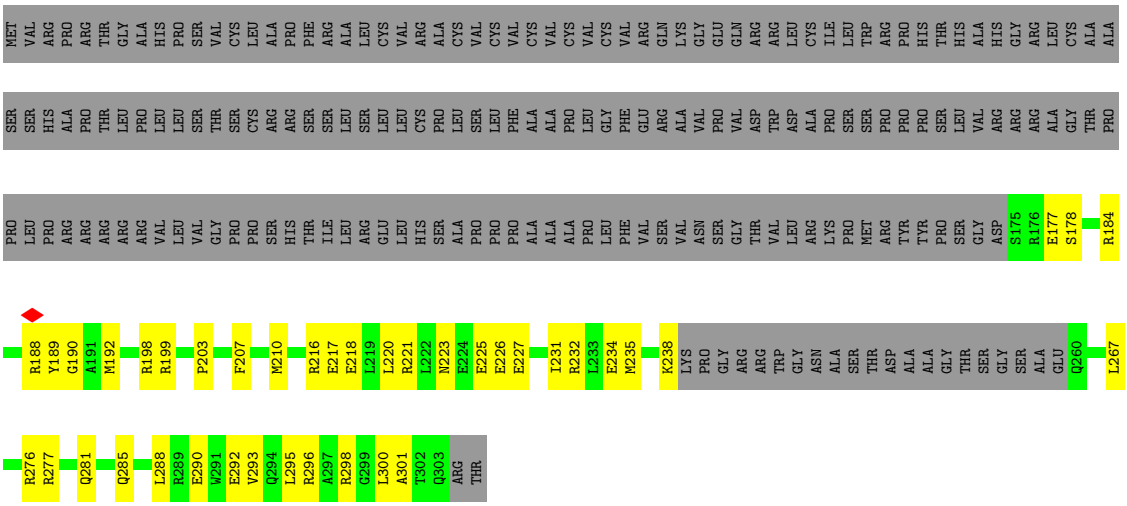
Chain 0o:





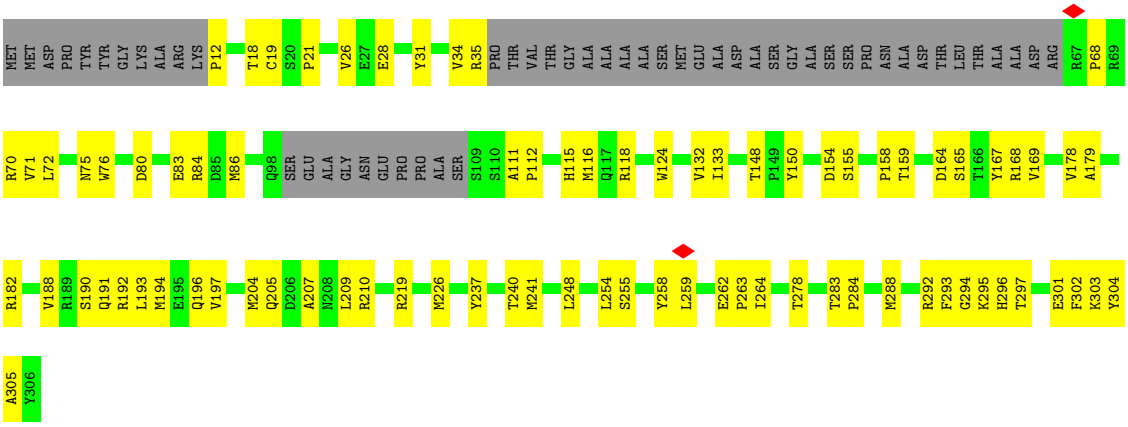
• Molecule 18: CFAP141

Chain 0p:



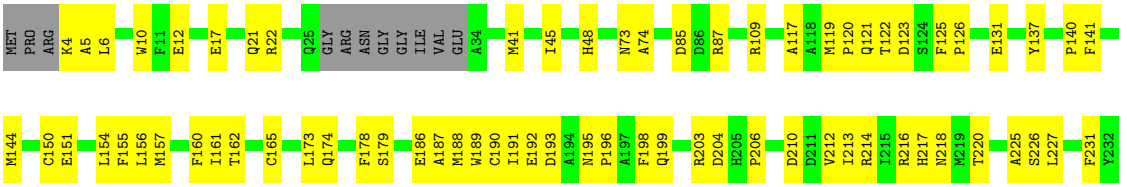
• Molecule 19: CFAP143

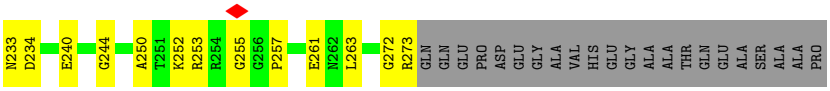
Chain 0r:



• Molecule 20: CFAP161

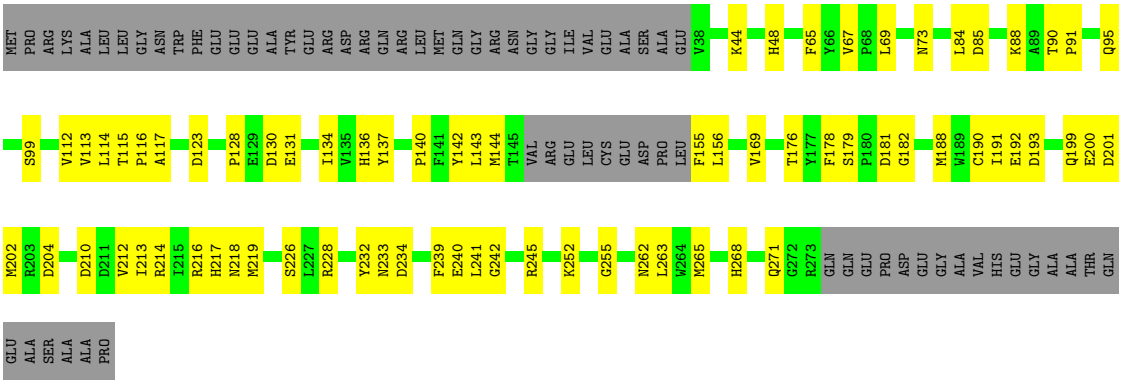
Chain 0t:





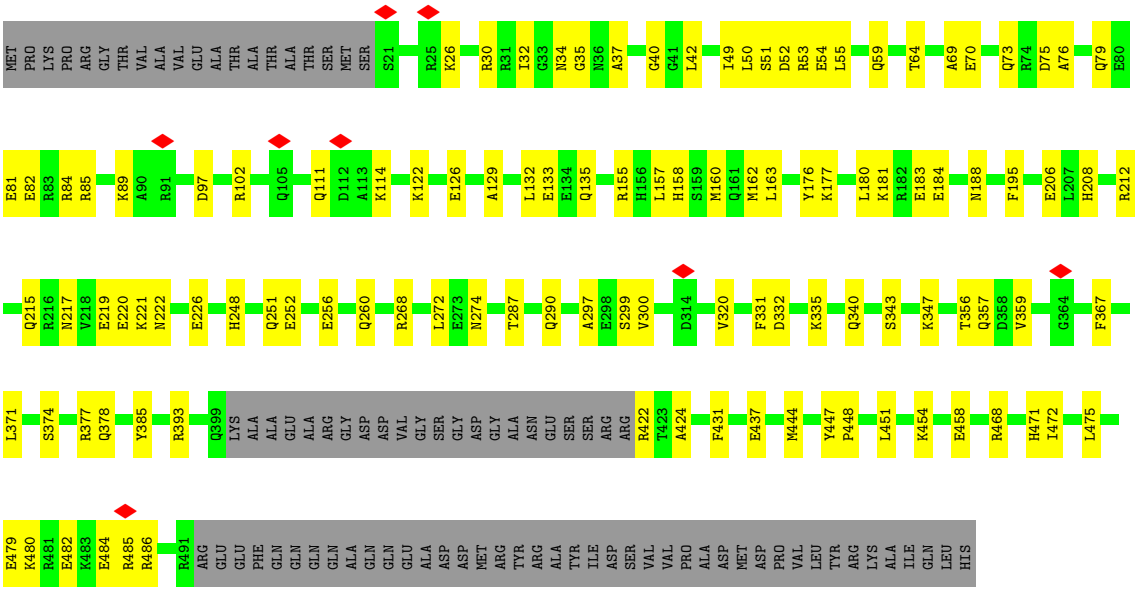
• Molecule 20: CFAP161

Chain 0u:



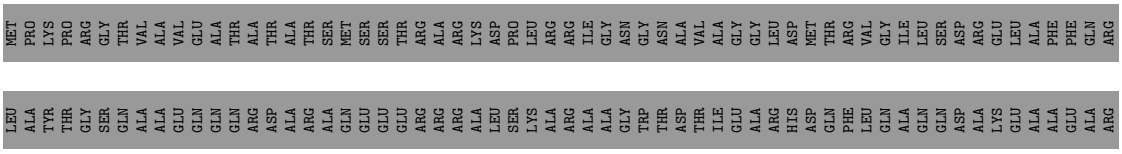
• Molecule 21: CFAP210

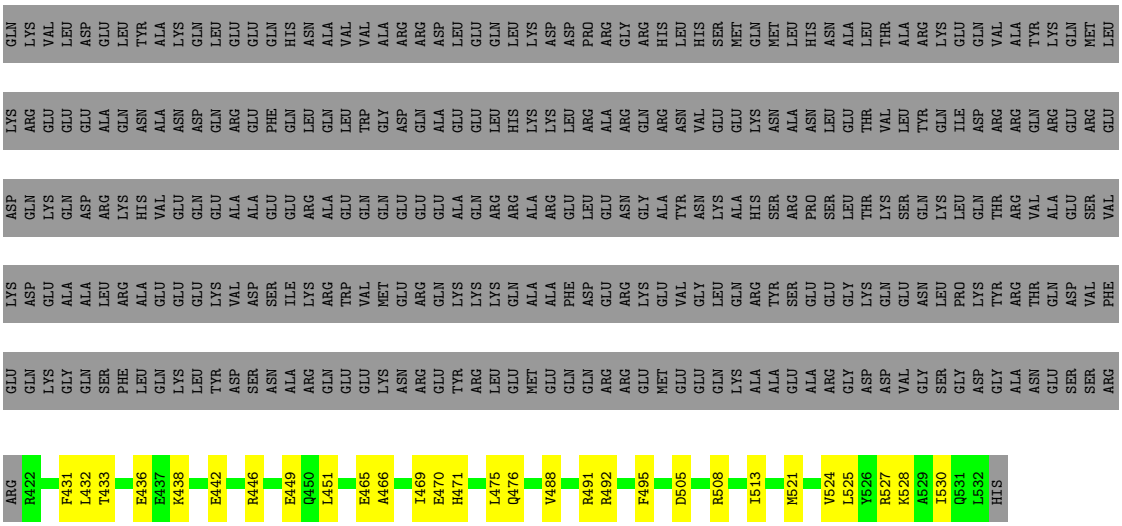
Chain 0w:



• Molecule 21: CFAP210

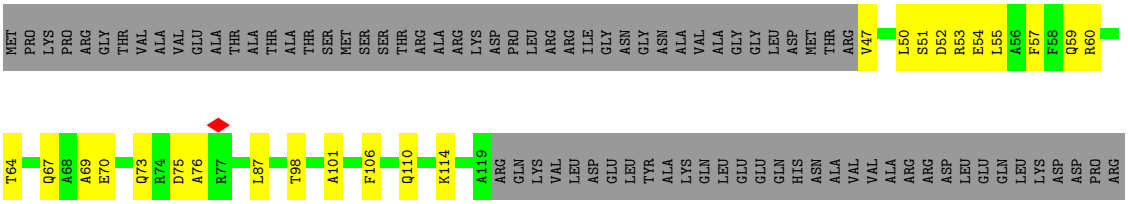
Chain 0x:





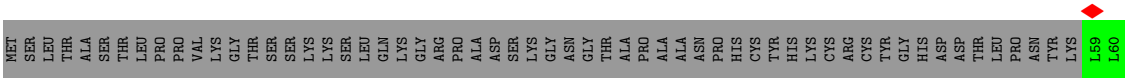
• Molecule 21: CFAP210

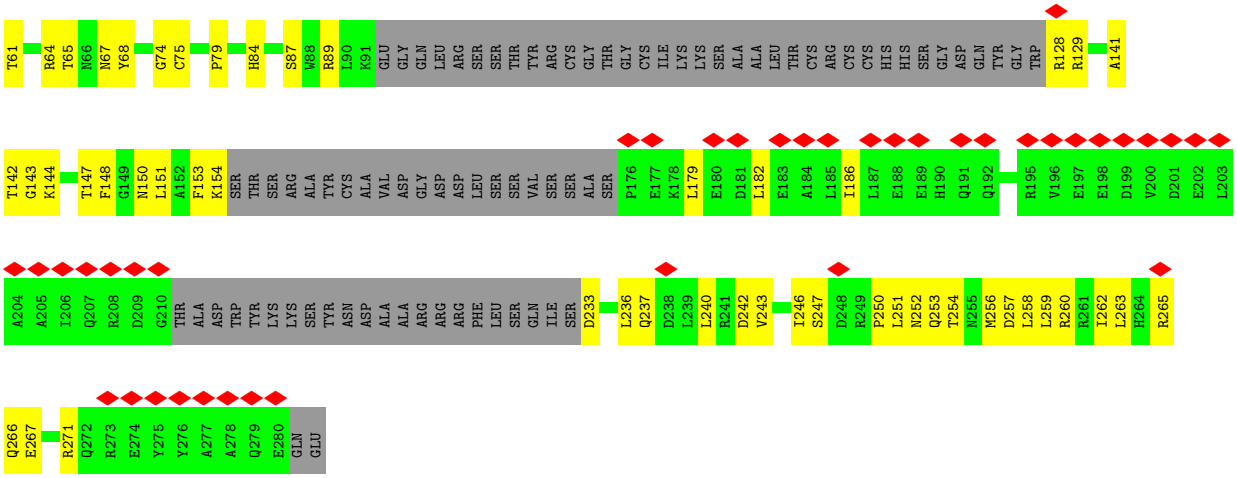
Chain 0v:



• Molecule 22: DMIP5

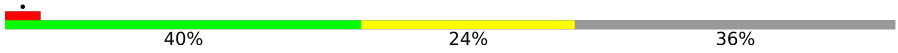
Chain 0z:

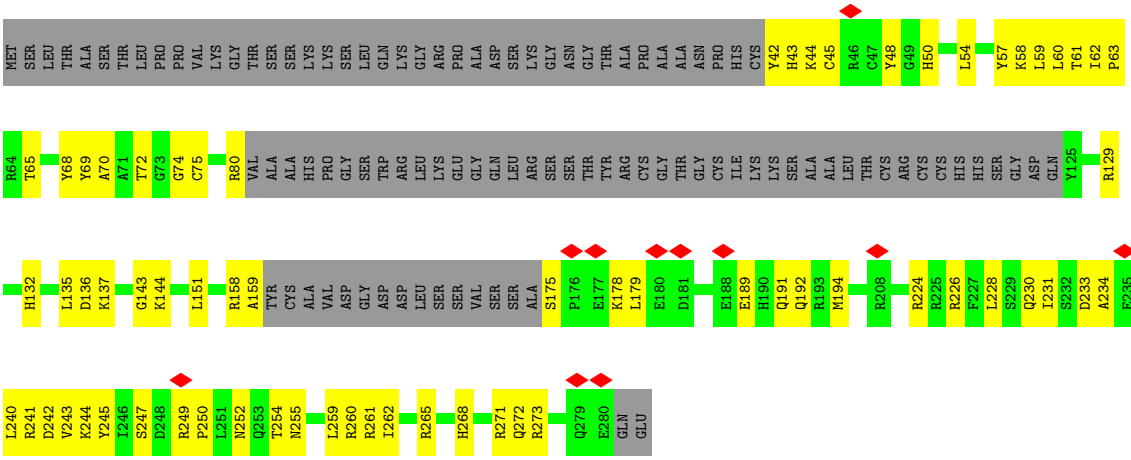




• Molecule 22: DMIP5

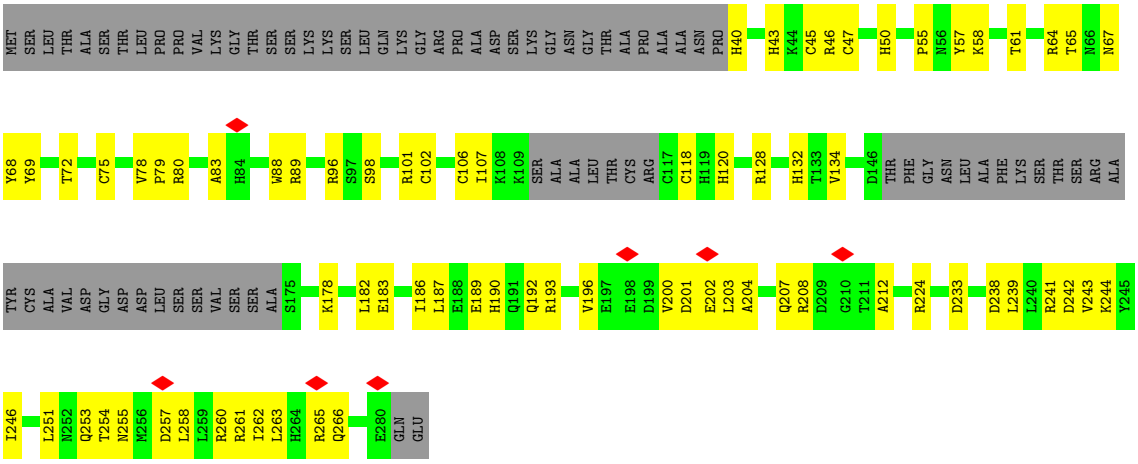
Chain 1w:





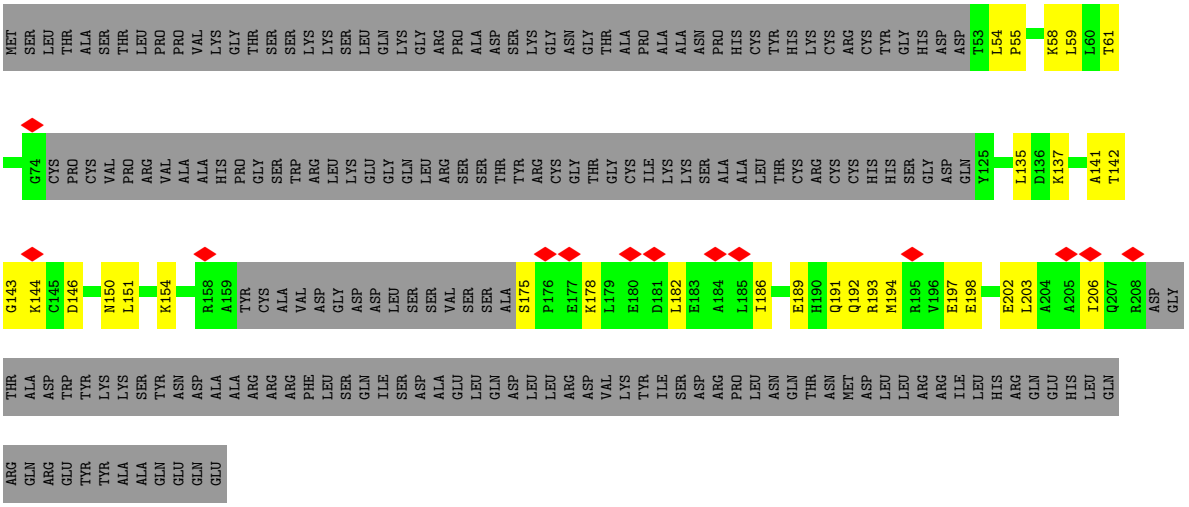
• Molecule 22: DMIP5

Chain 1x:



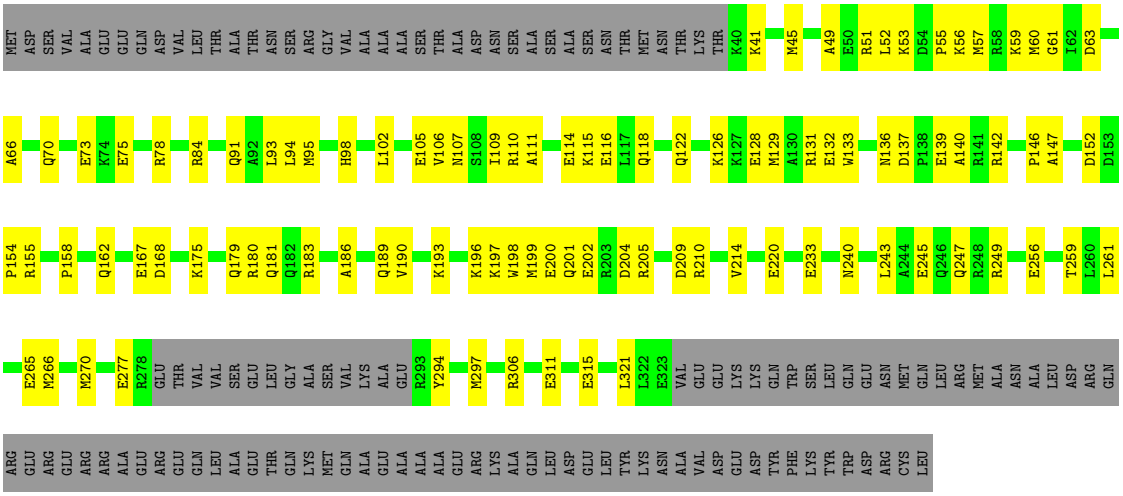
• Molecule 22: DMIP5

Chain 1y:



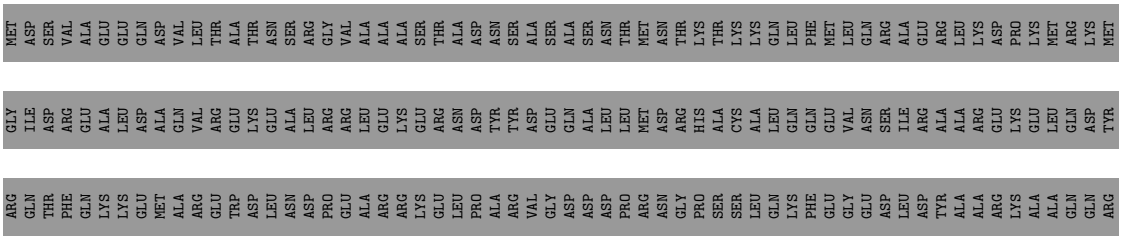
• Molecule 23: RIB43

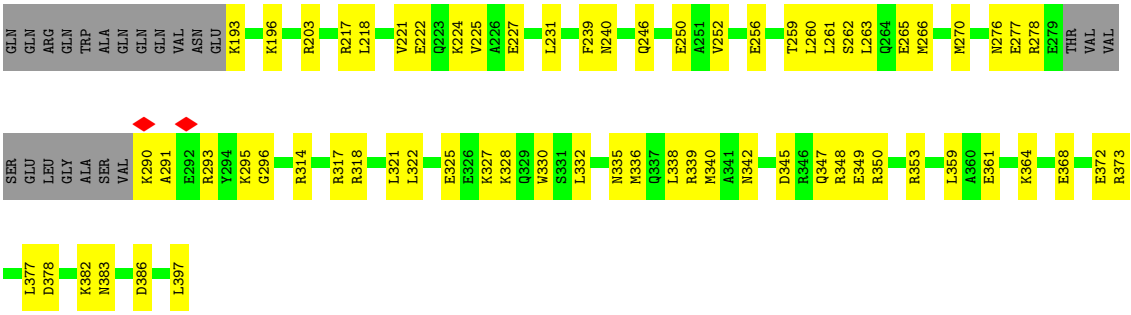
Chain 1A:



• Molecule 23: RIB43

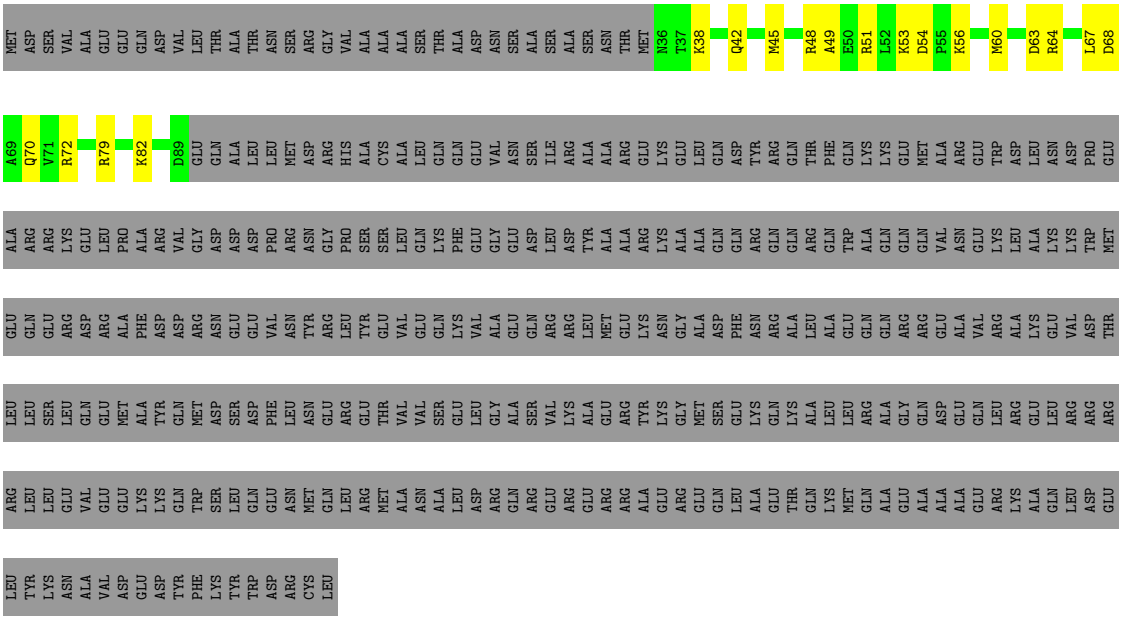
Chain 1B:





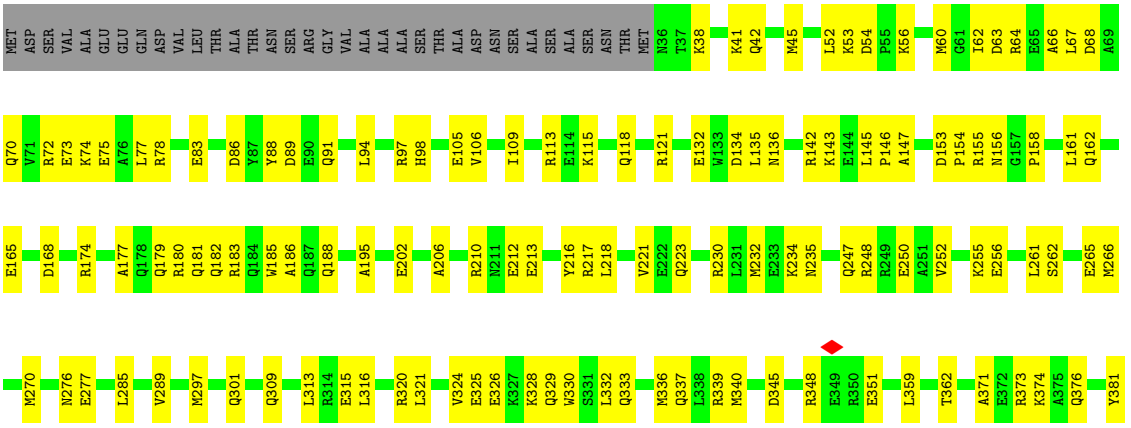
• Molecule 23: RIB43

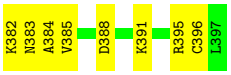
Chain 1D:



• Molecule 23: RIB43

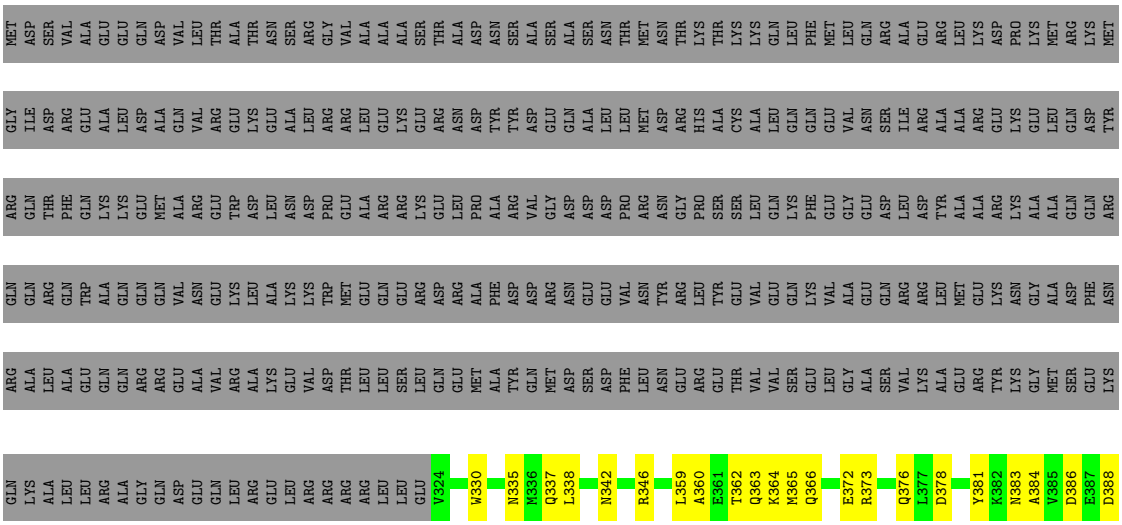
Chain 1E:





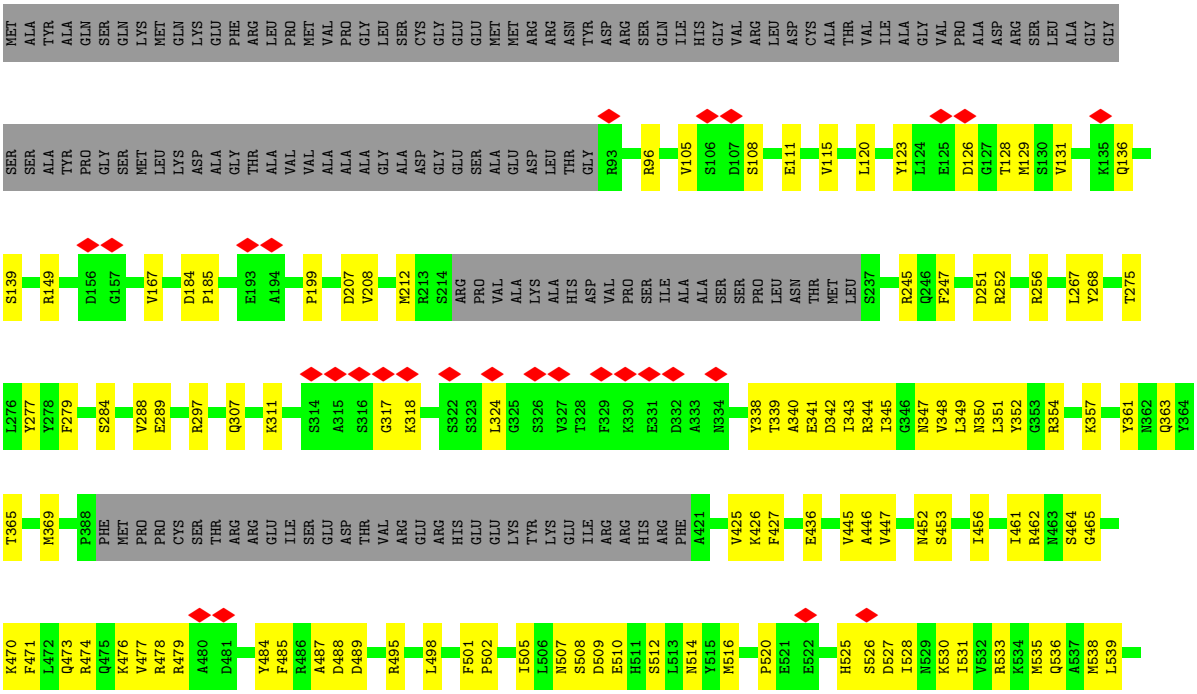
• Molecule 23: RIB43

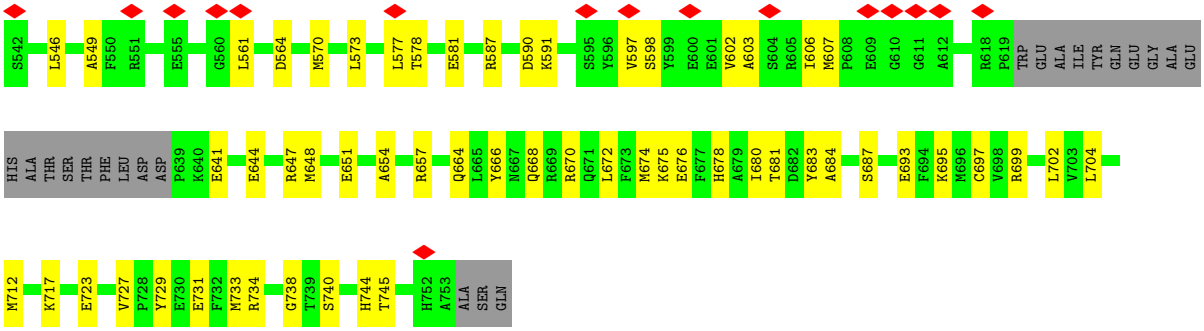
Chain 1F:



• Molecule 24: RIB72A

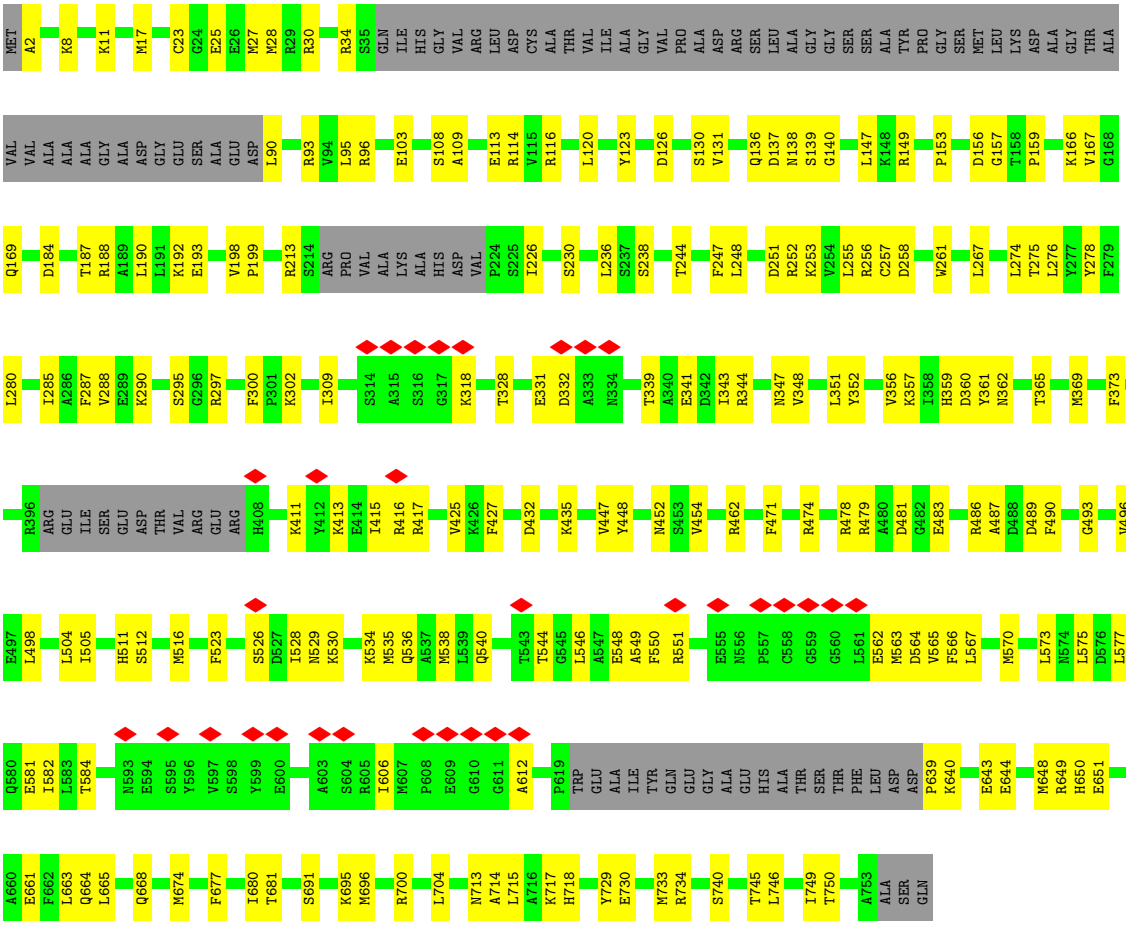
Chain 1H:





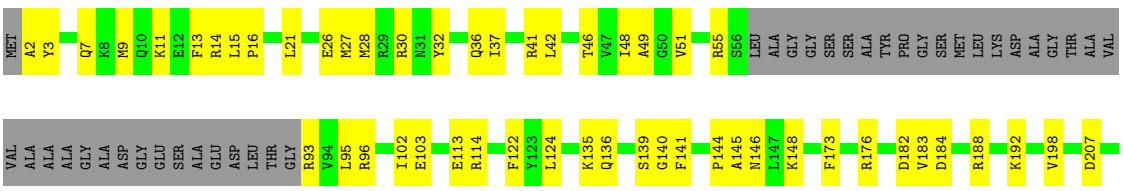
• Molecule 24: RIB72A

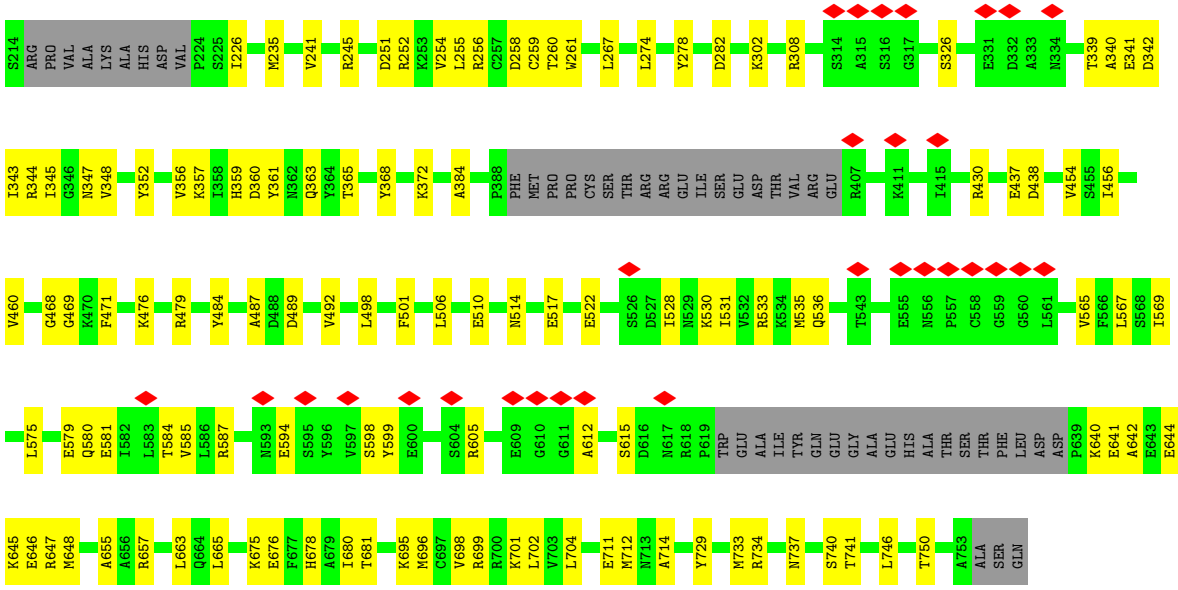
Chain 1I:



• Molecule 24: RIB72A

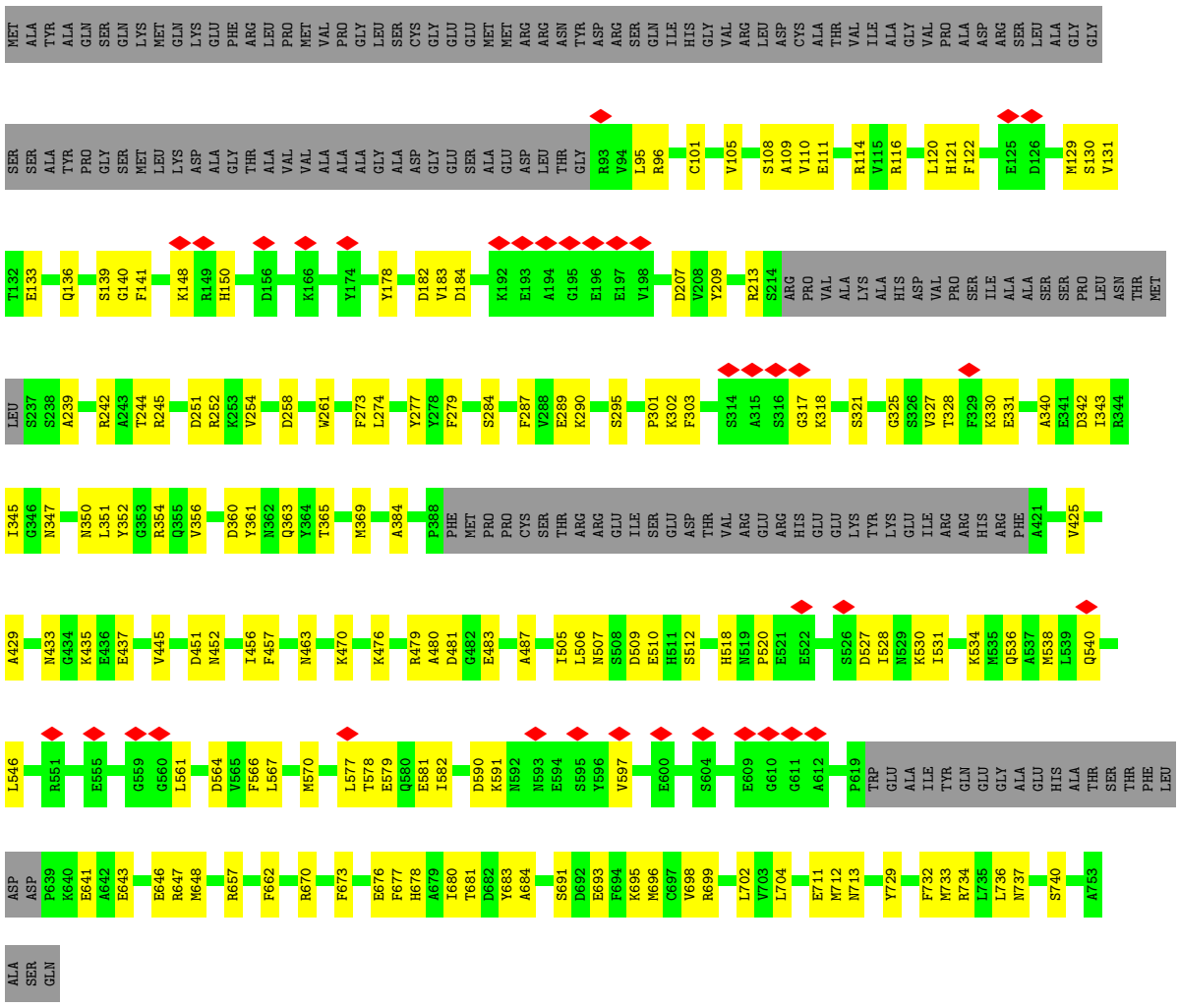
Chain 1J:





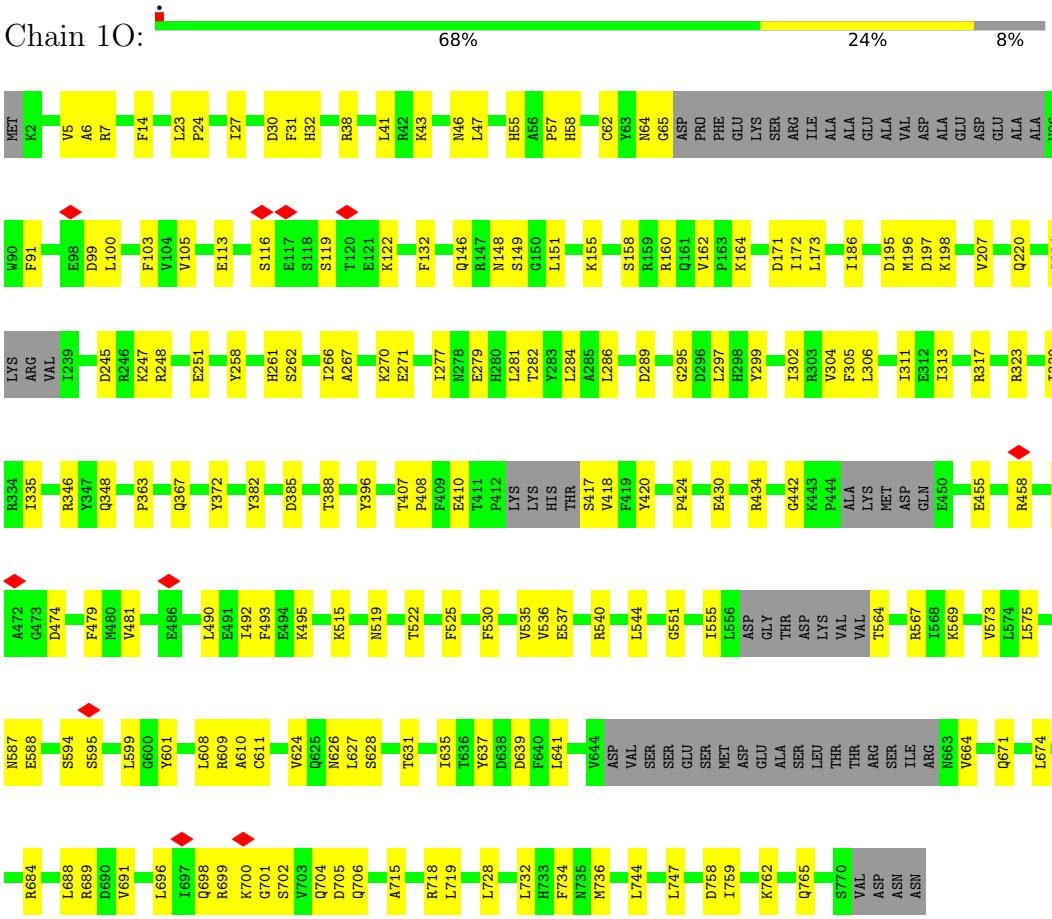
• Molecule 24: RIB72A

Chain 1K:



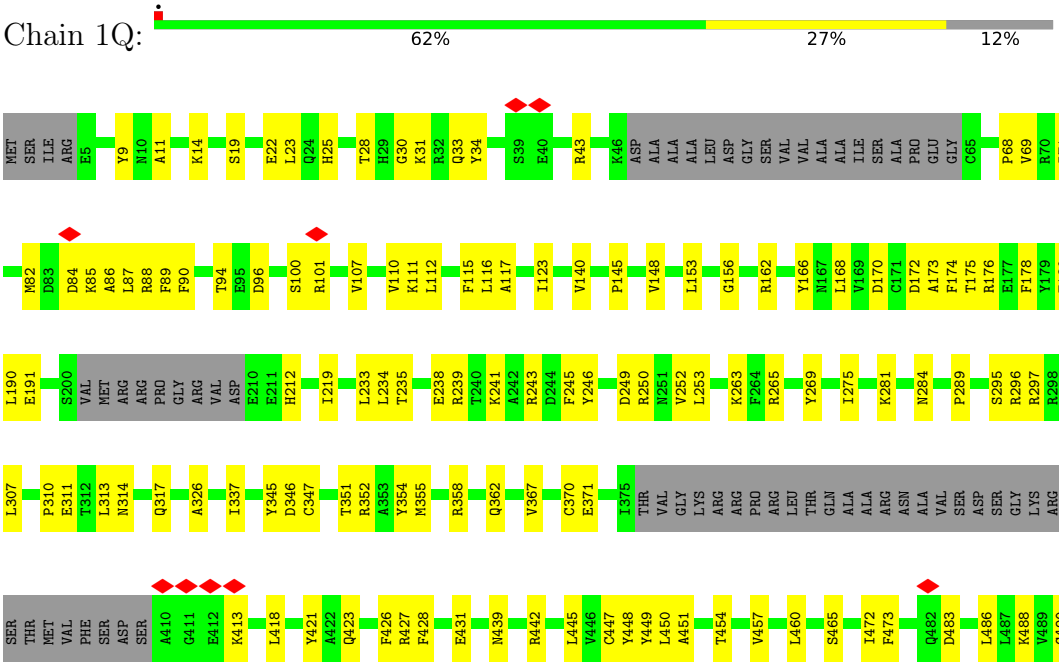
• Molecule 25: RIB72B

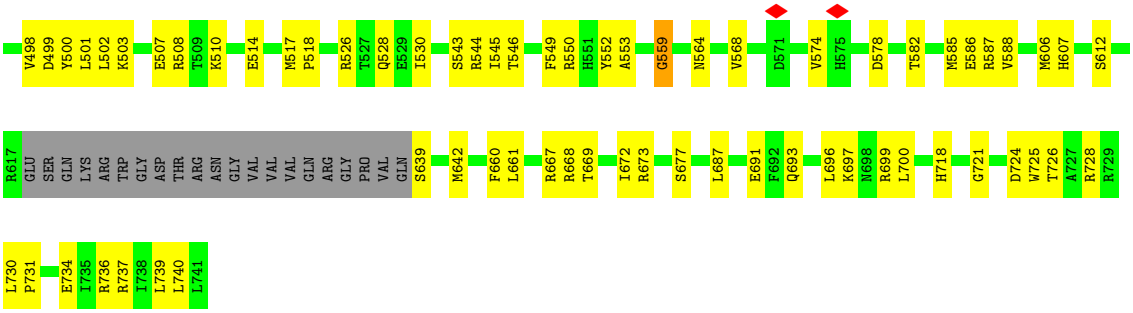
Chain 1O:



• Molecule 26: RIB72C

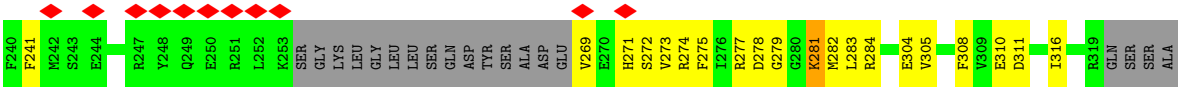
Chain 1Q:

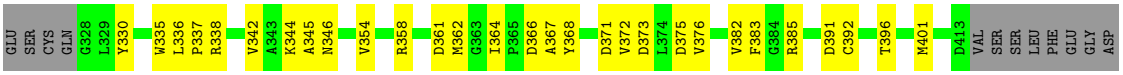


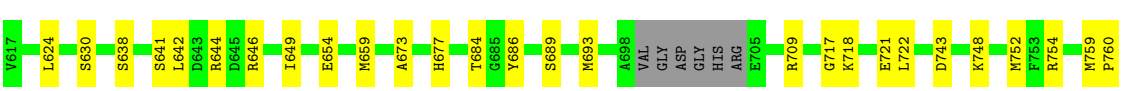


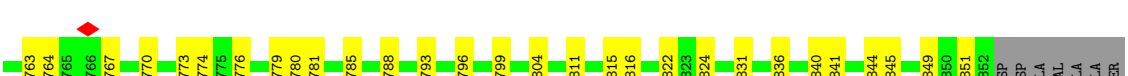
• Molecule 27: RIB72D

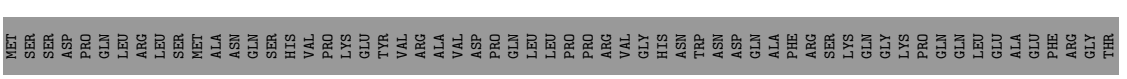
Chain 1S:





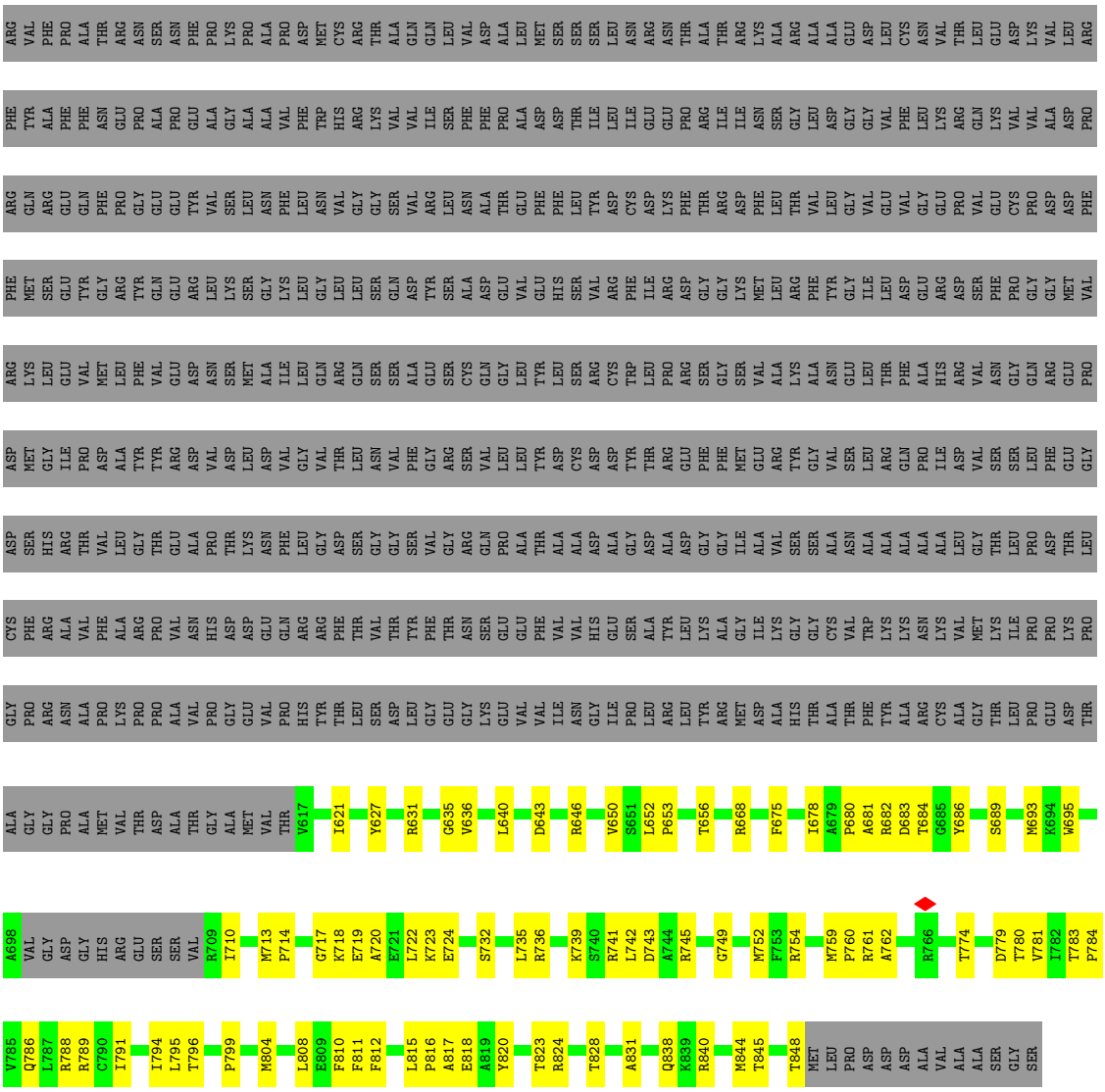






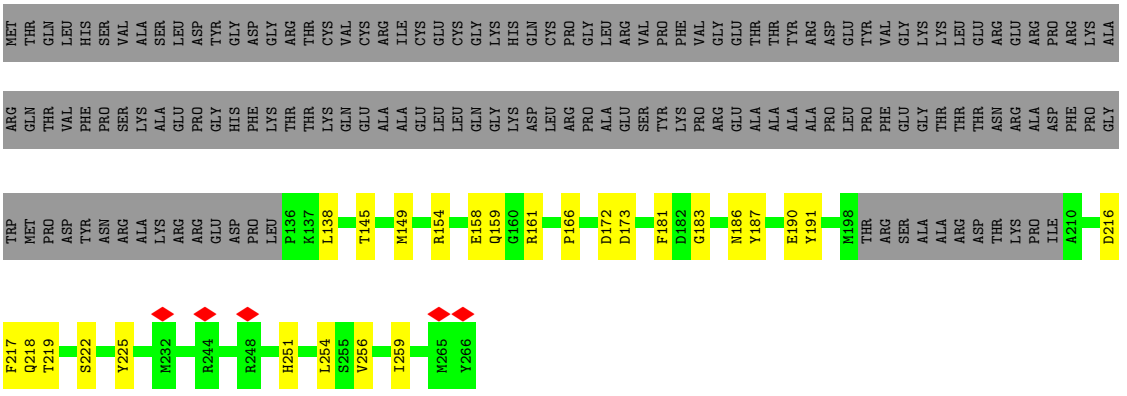
• Molecule 27: RIB72D

Chain 1T:



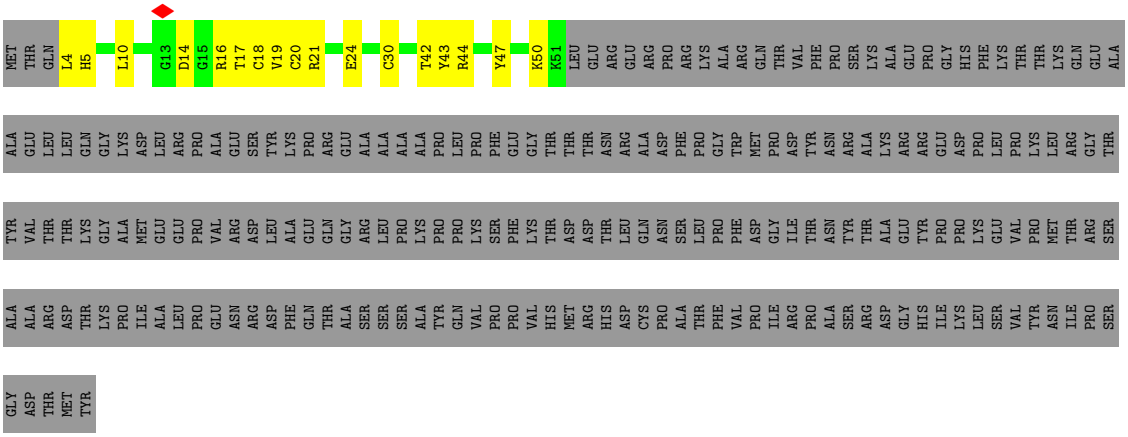
• Molecule 28: DMIP1

Chain 1U:



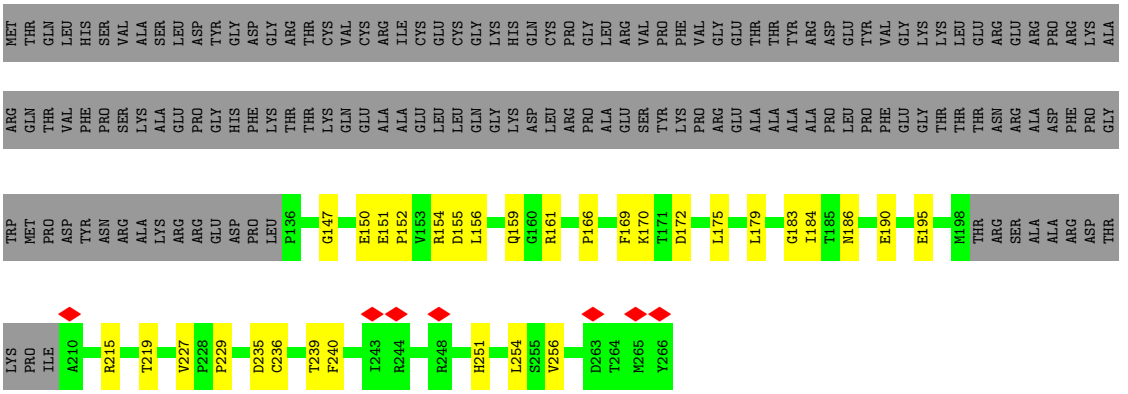
• Molecule 28: DMIP1

Chain 1V:



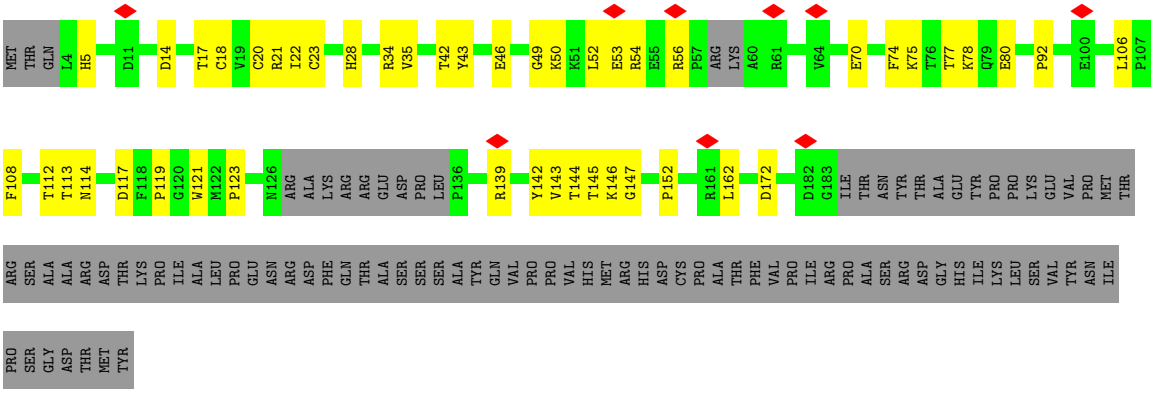
• Molecule 28: DMIP1

Chain 1X:



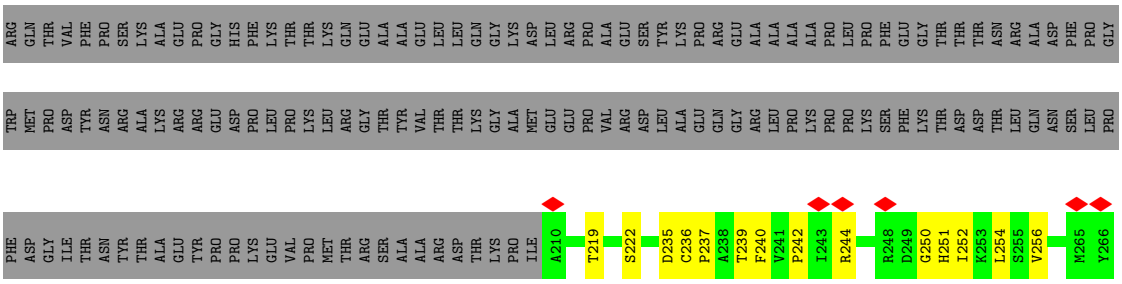
• Molecule 28: DMIP1

Chain 1Y:



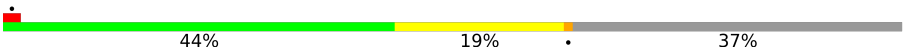
• Molecule 28: DMIP1

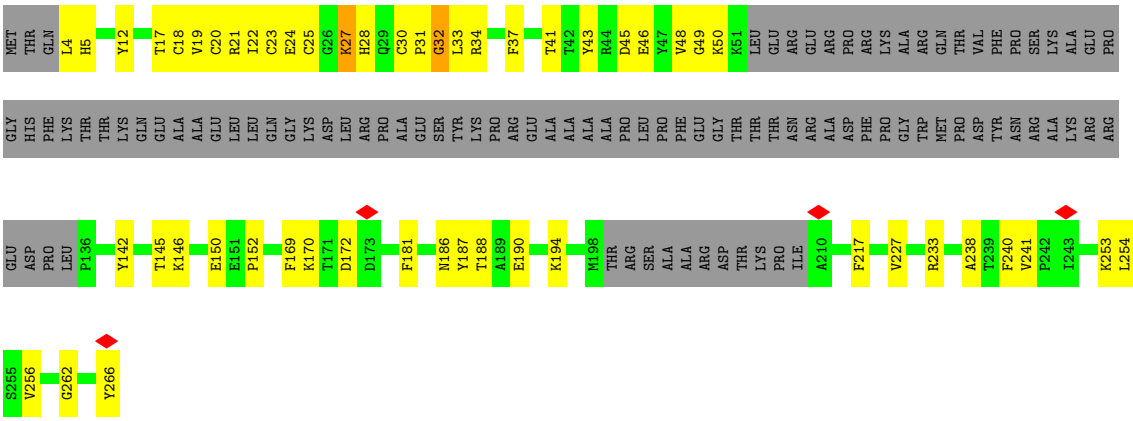
Chain 1a:



• Molecule 28: DMIP1

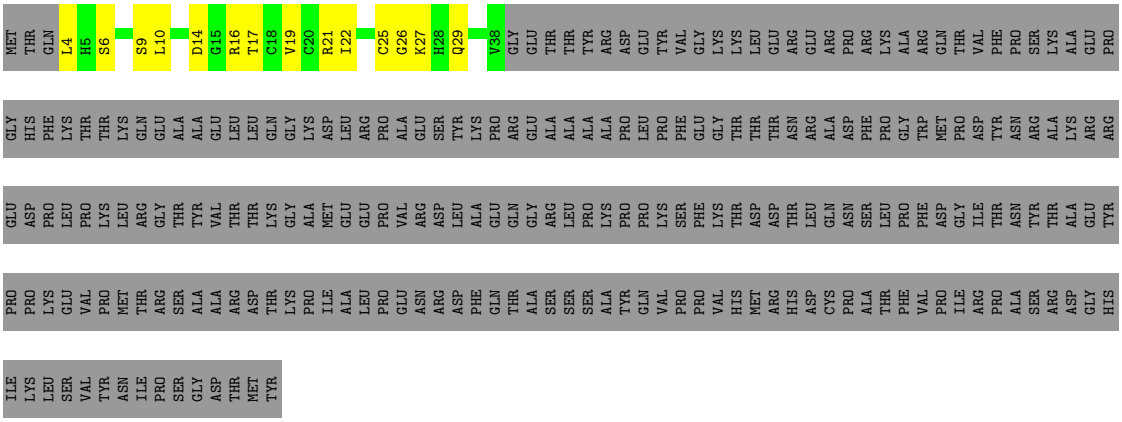
Chain 1b:





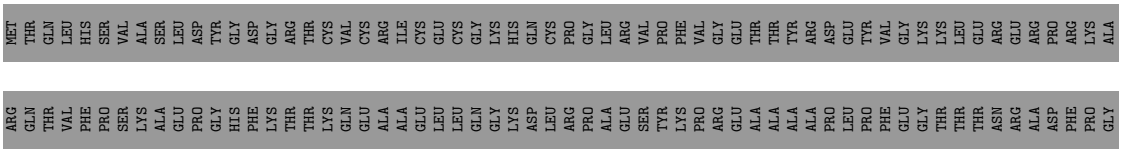
• Molecule 28: DMIP1

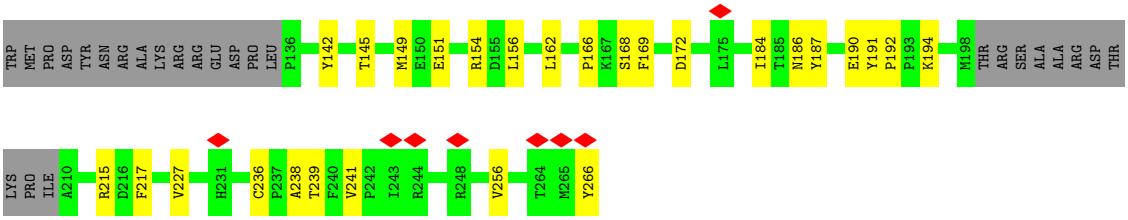
Chain 1c:



• Molecule 28: DMIP1

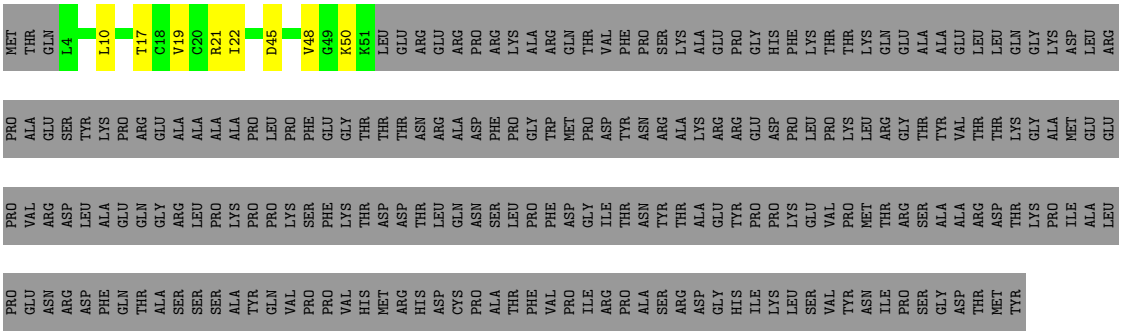
Chain 1d:





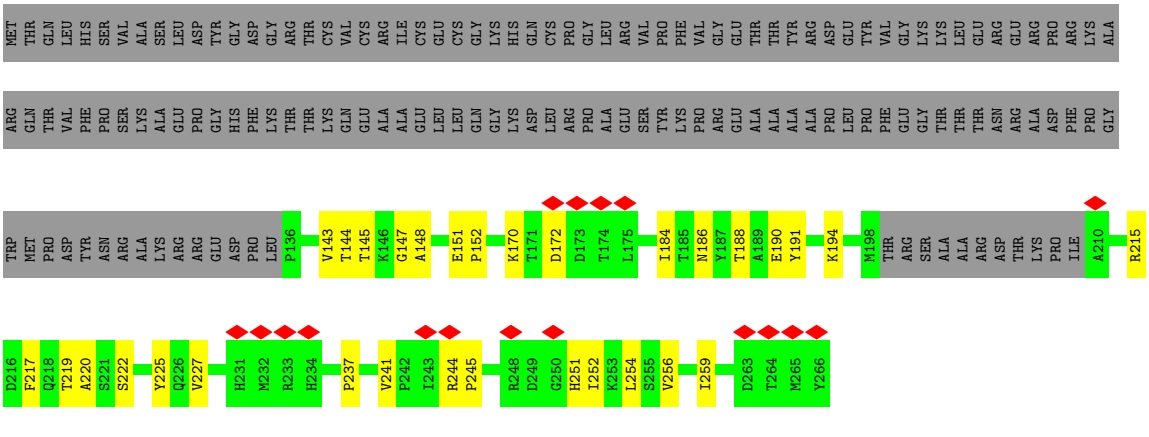
• Molecule 28: DMIP1

Chain 1e:



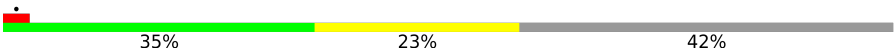
• Molecule 28: DMIP1

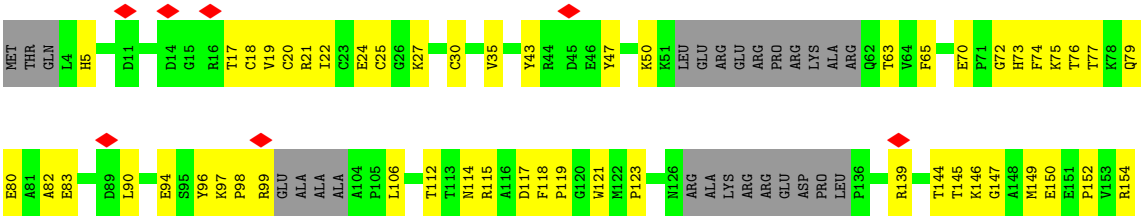
Chain 1g:

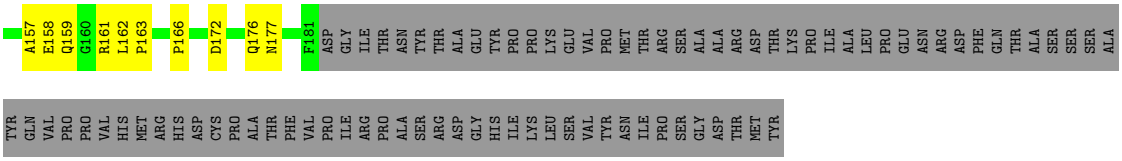


• Molecule 28: DMIP1

Chain 1h:

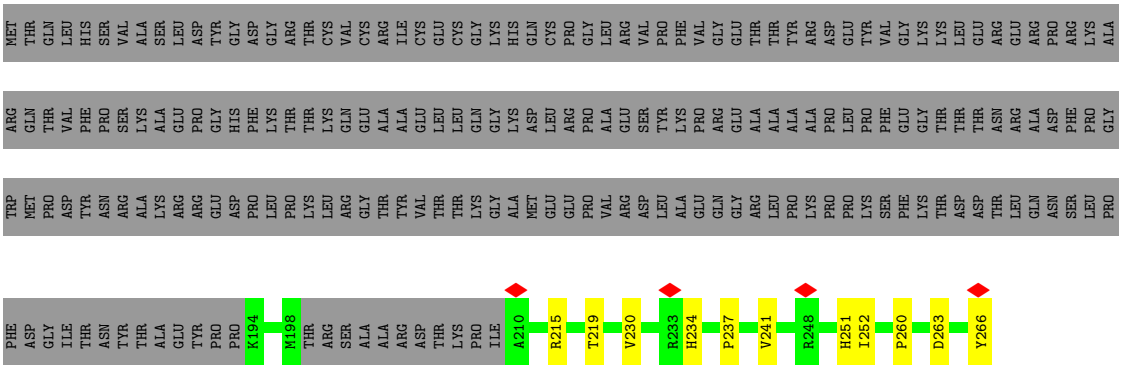






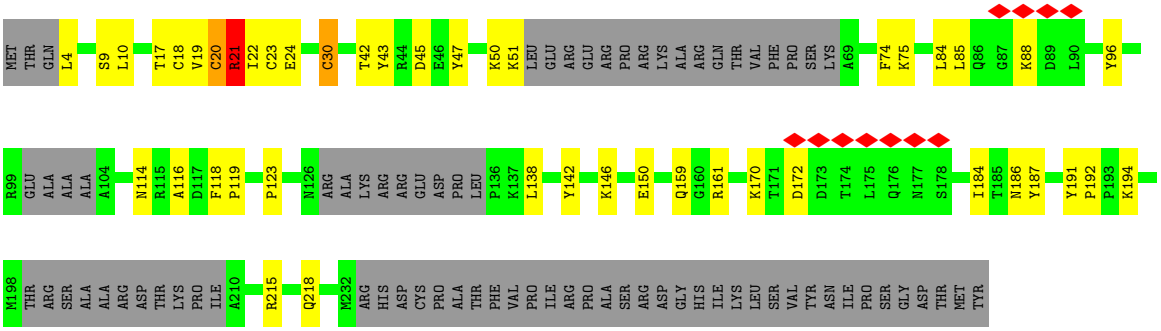
• Molecule 28: DMIP1

Chain 4V:



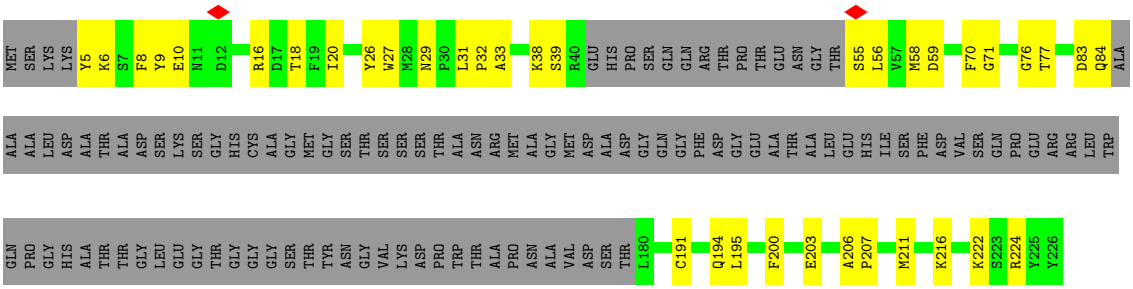
• Molecule 28: DMIP1

Chain 4W:



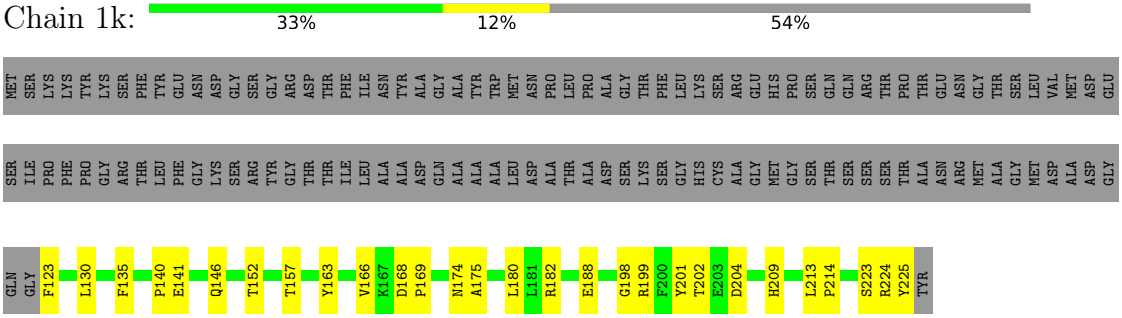
• Molecule 29: DMIP2

Chain 1j:



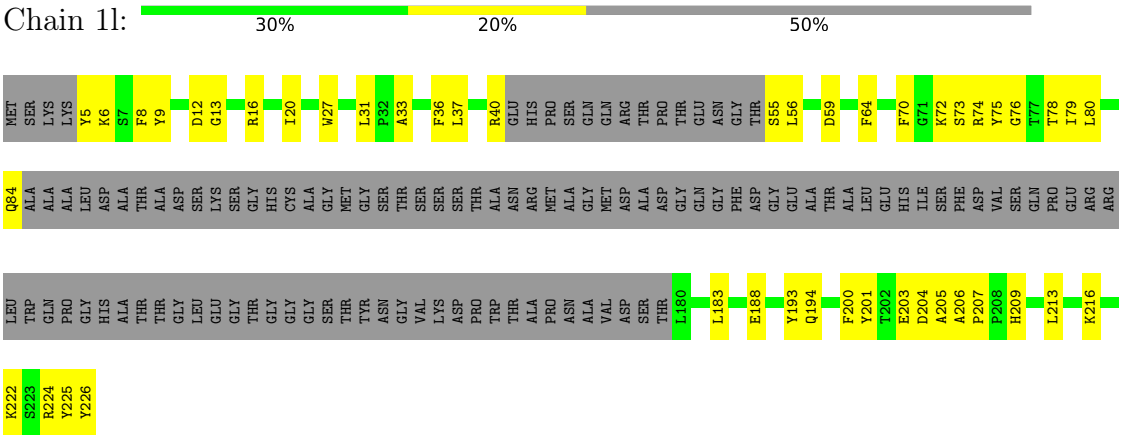
• Molecule 29: DMIP2

Chain 1k:



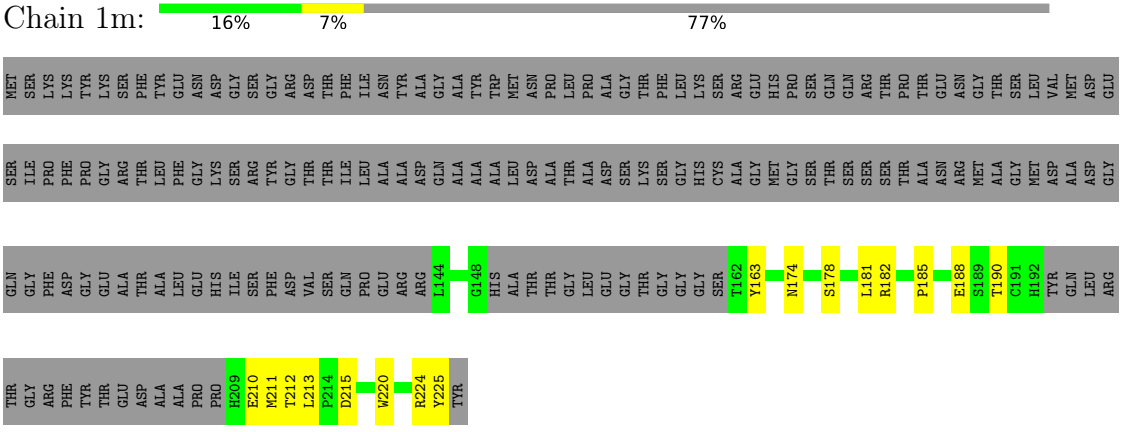
• Molecule 29: DMIP2

Chain 1l:



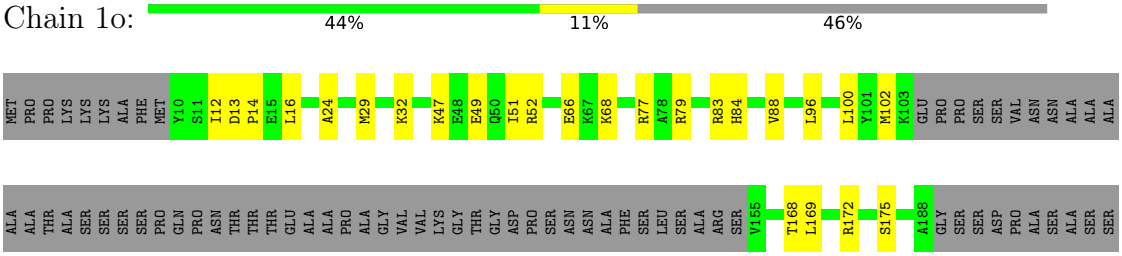
• Molecule 29: DMIP2

Chain 1m:



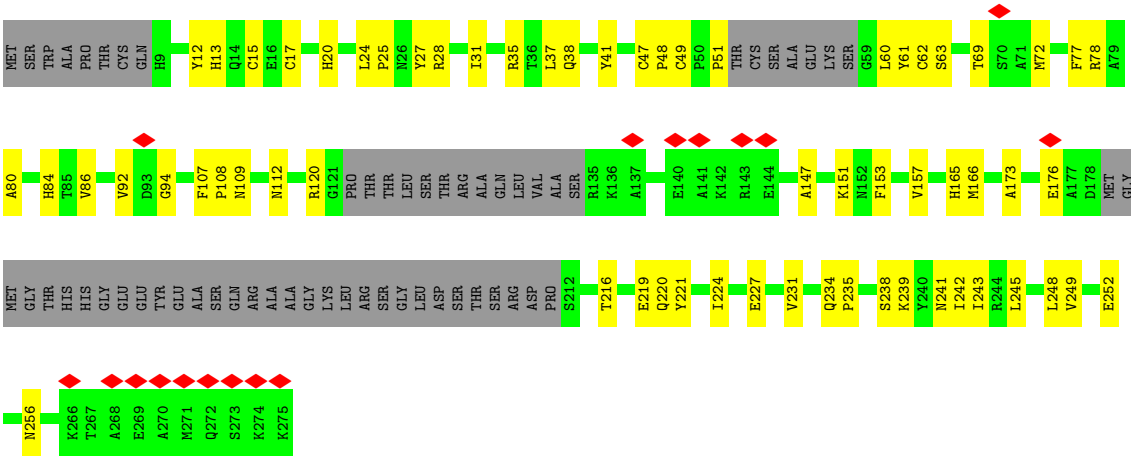
• Molecule 30: DMIP3

Chain 1o:



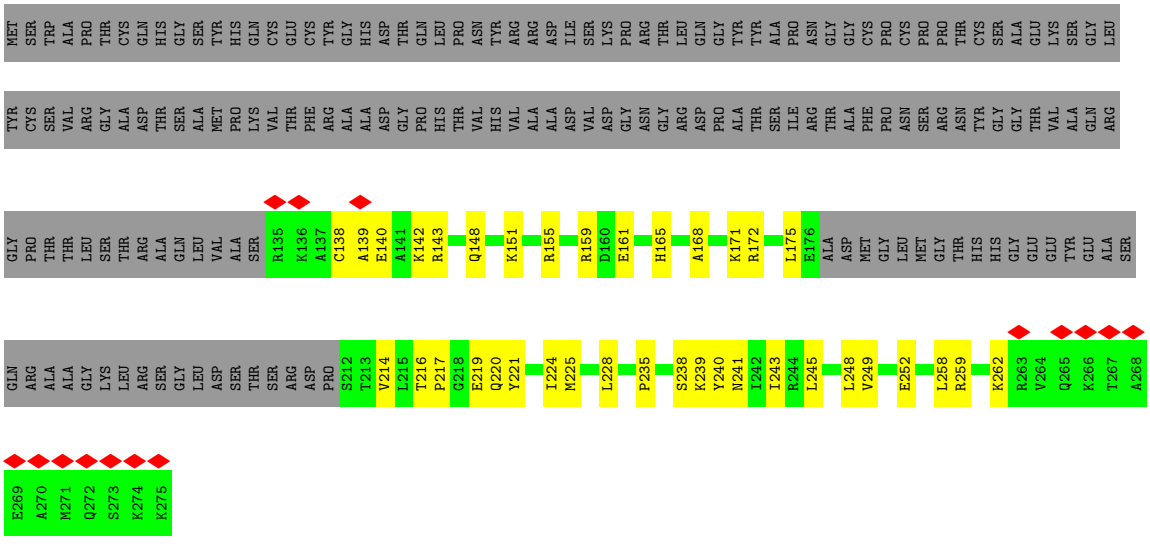
• Molecule 31: DMIP4

Chain 1q:



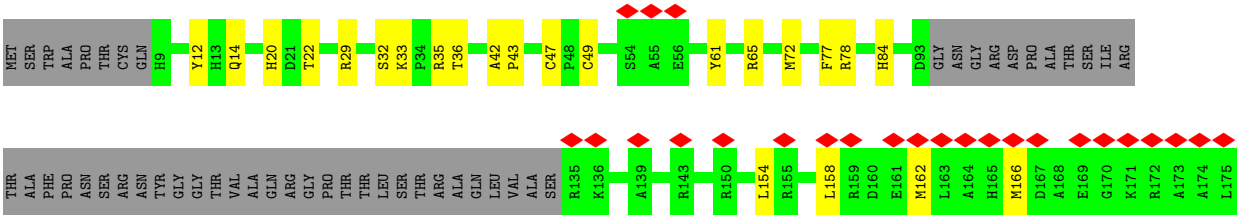
• Molecule 31: DMIP4

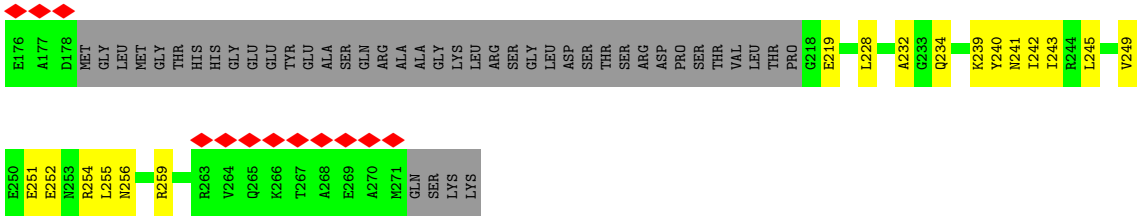
Chain 1r:



• Molecule 31: DMIP4

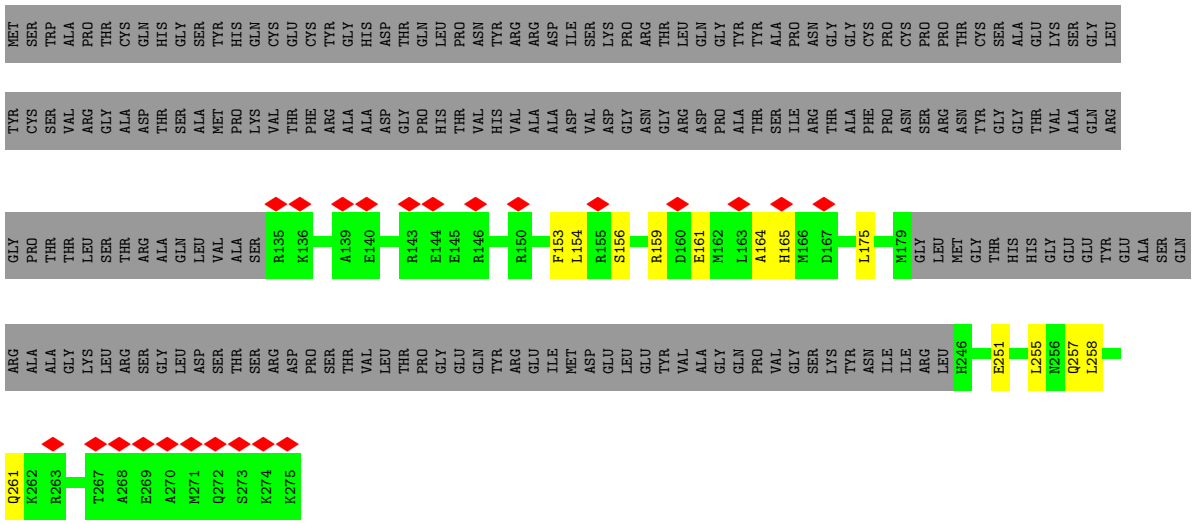
Chain 1s:





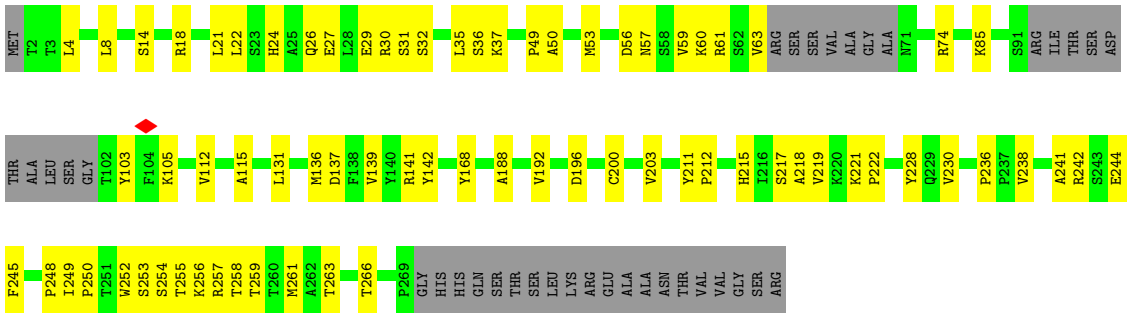
• Molecule 31: DMIP4

Chain 1t:



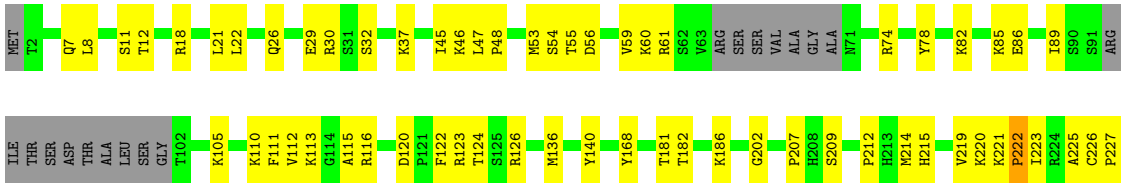
• Molecule 32: DMIP6

Chain 2B:



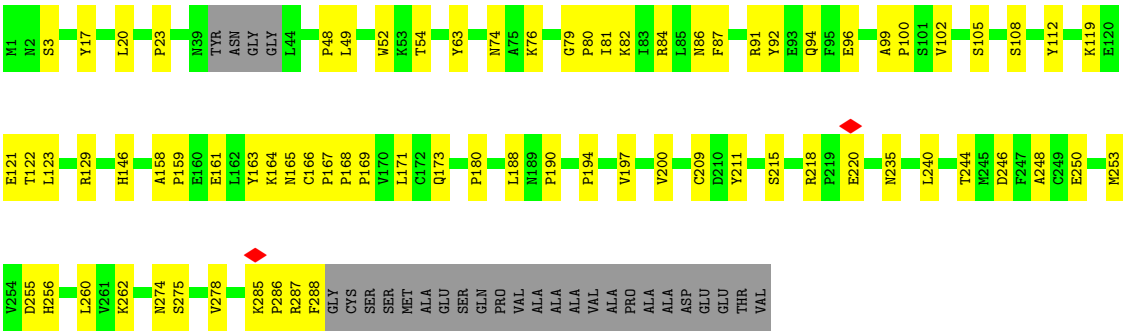
• Molecule 32: DMIP6

Chain 2C:



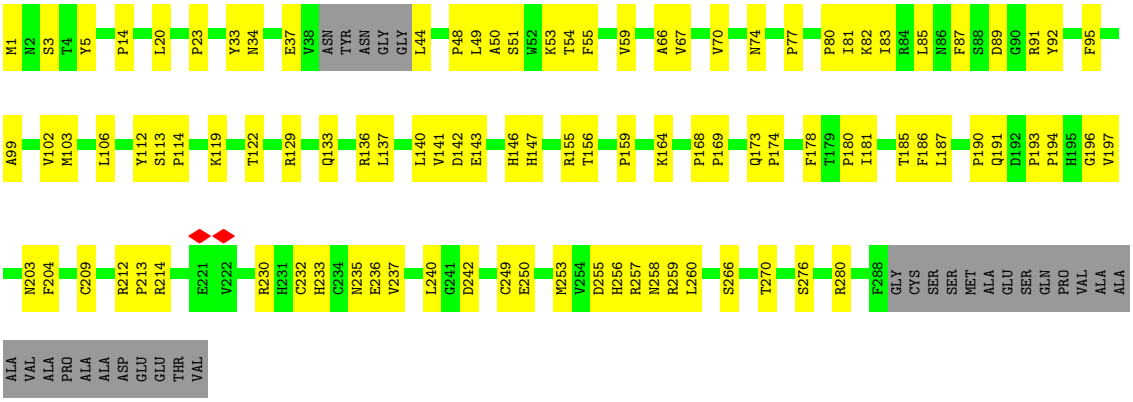
• Molecule 33: DMIP7

Chain 2F:



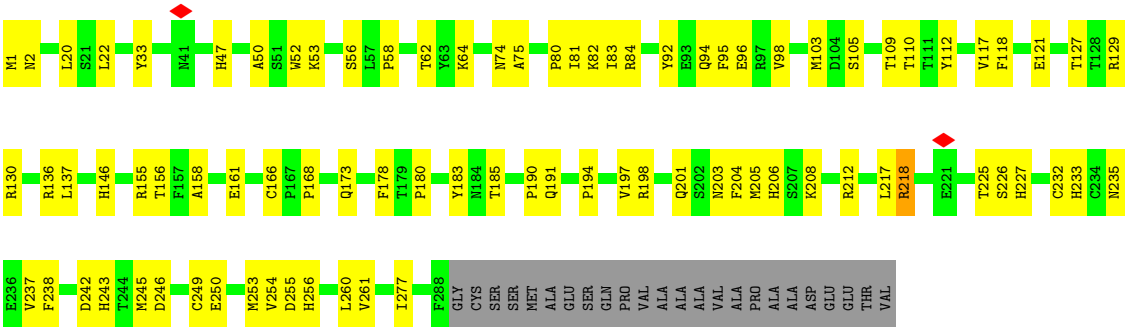
• Molecule 33: DMIP7

Chain 2G:



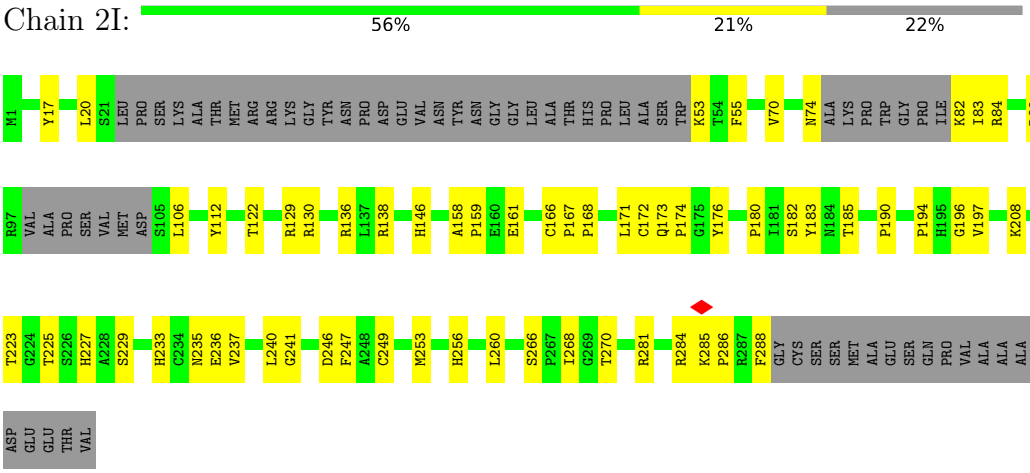
• Molecule 33: DMIP7

Chain 2H:



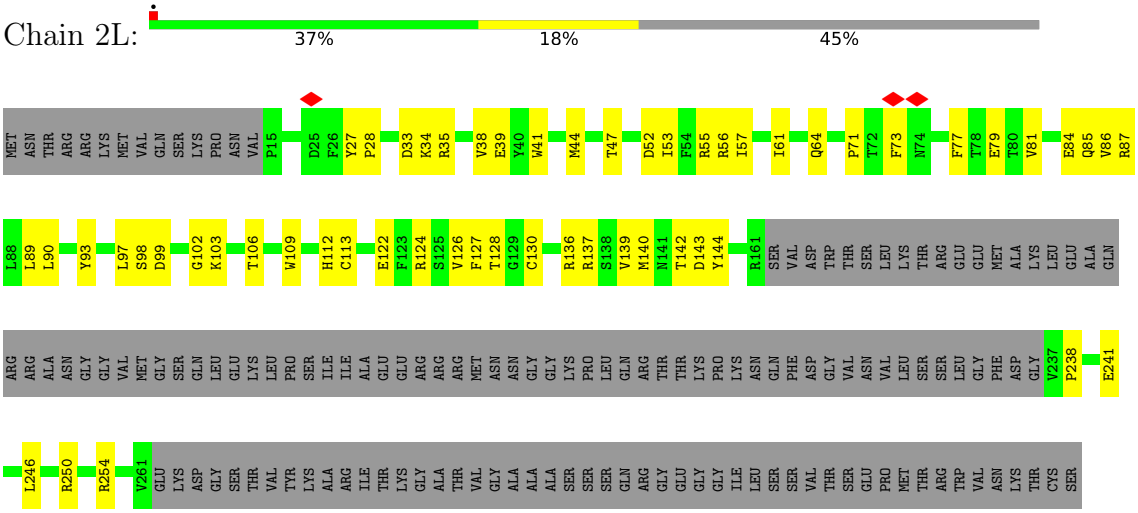
• Molecule 33: DMIP7

Chain 2I:



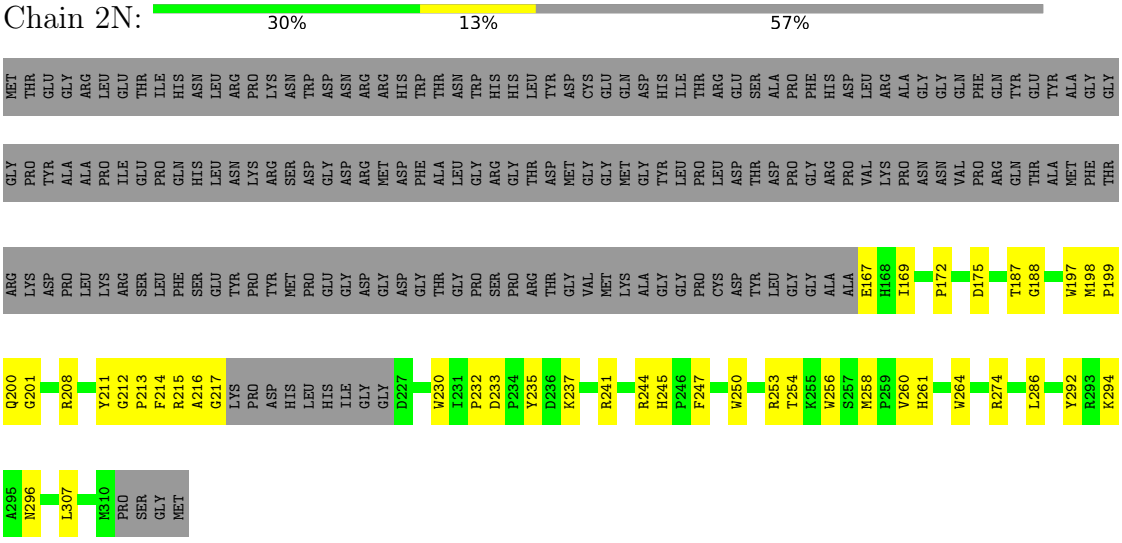
• Molecule 34: DMIP8

Chain 2L:



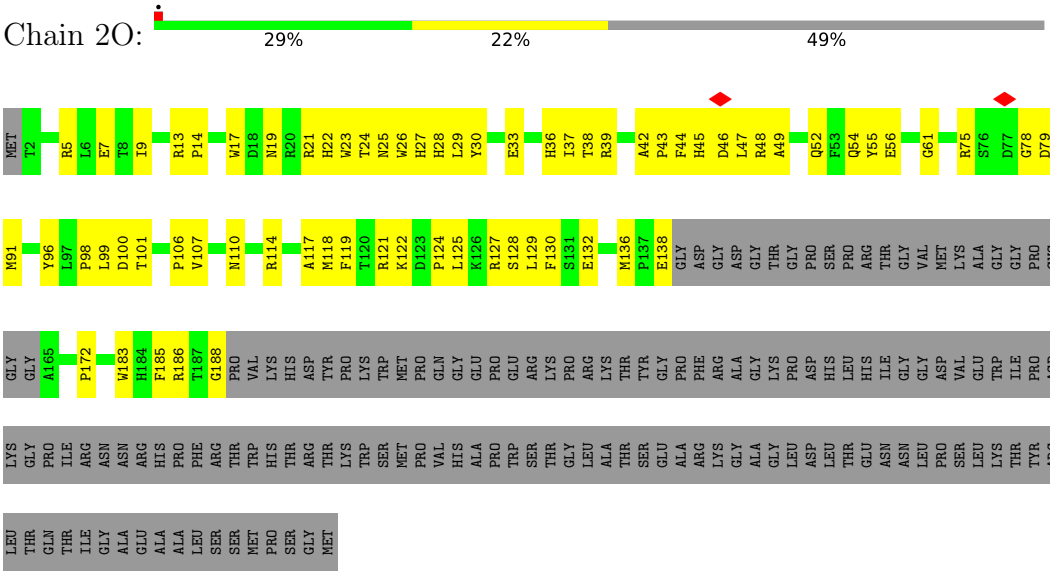
• Molecule 35: DMIP9

Chain 2N:



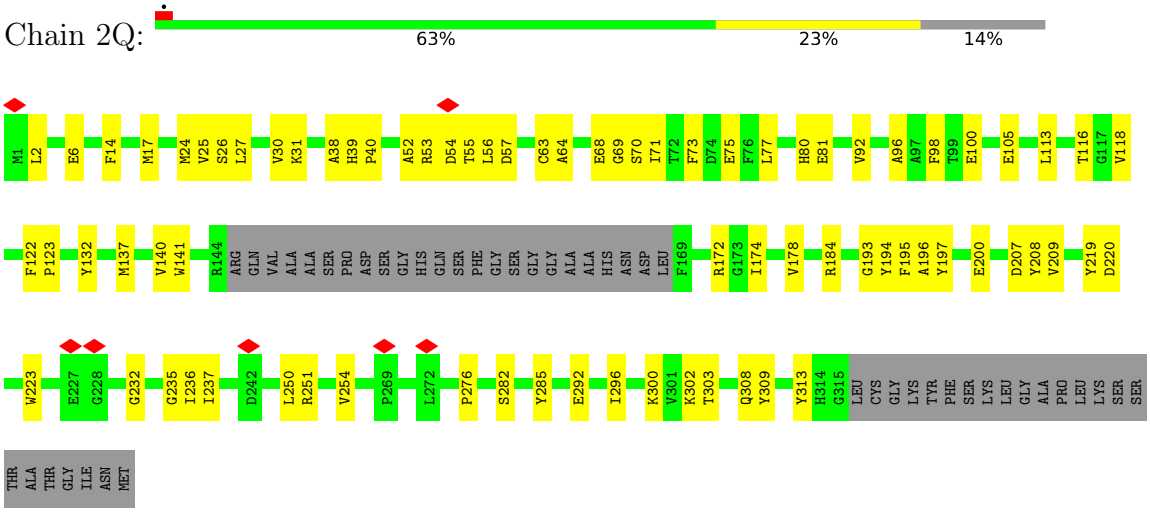
• Molecule 35: DMIP9

Chain 2O:



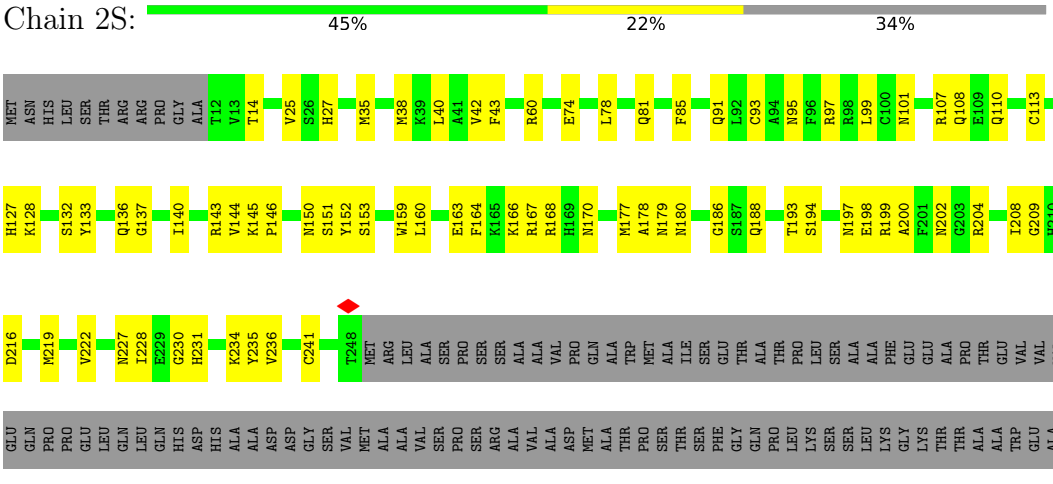
• Molecule 36: DMIP10

Chain 2Q:



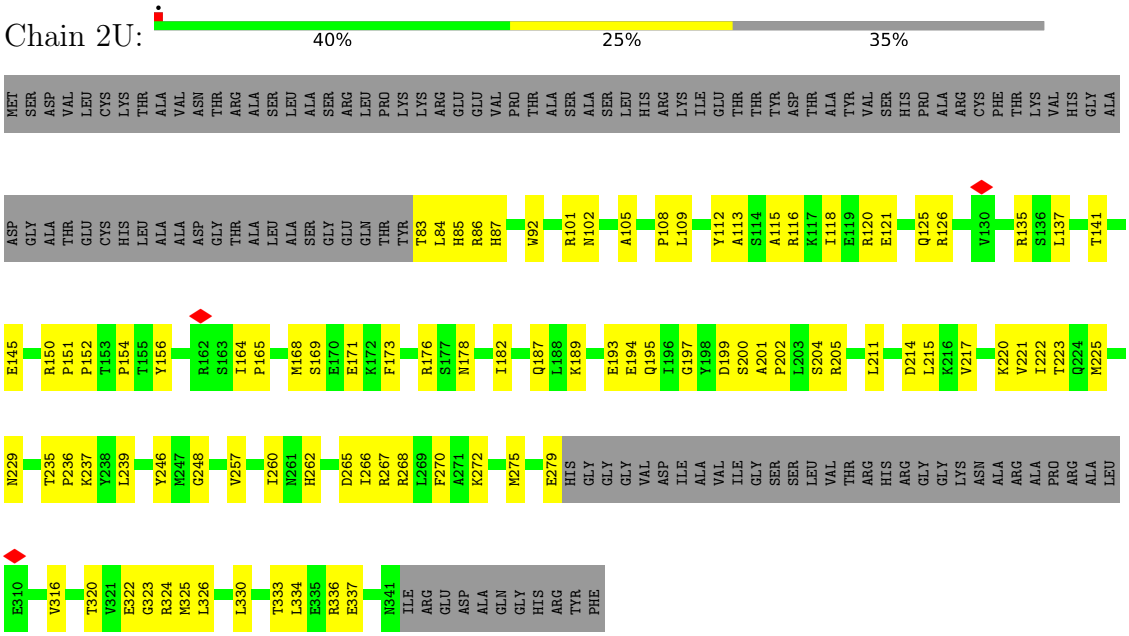
• Molecule 37: DMIP11

Chain 2S:



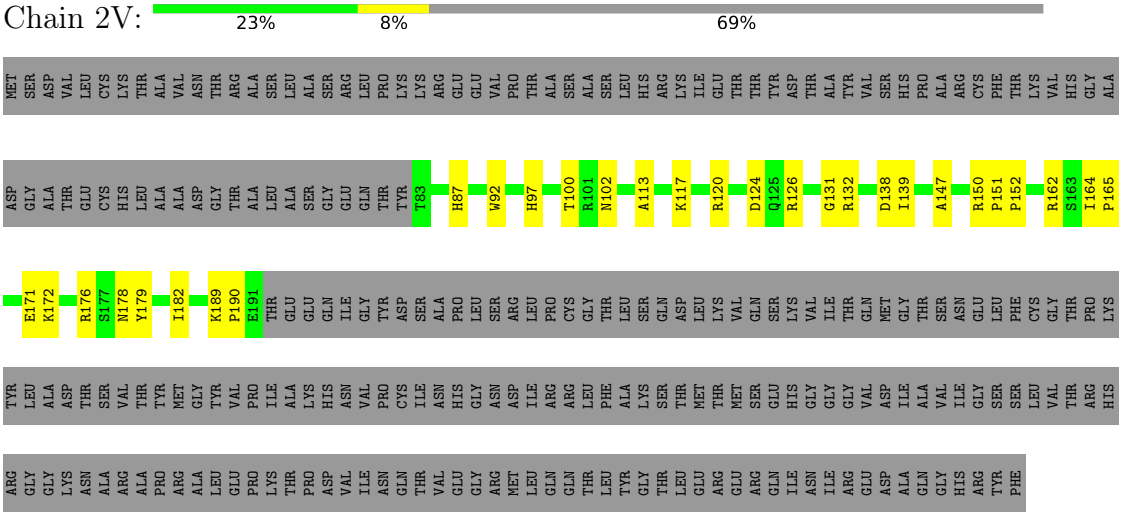
• Molecule 38: DMIP12

Chain 2U:



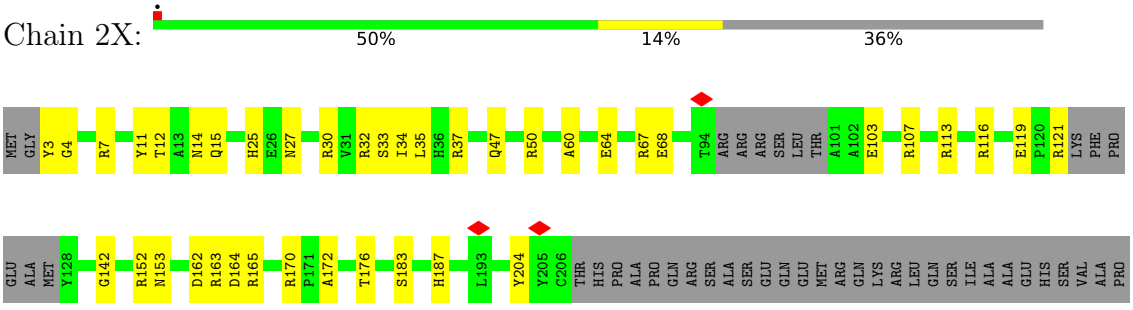
• Molecule 38: DMIP12

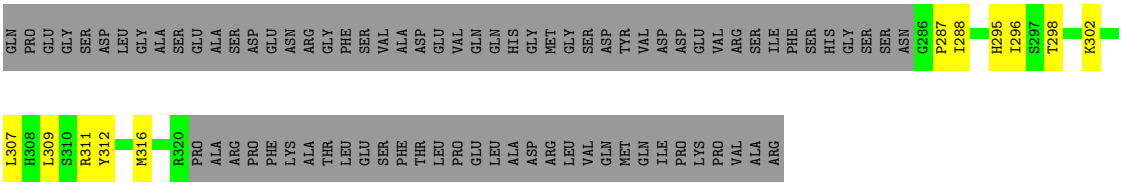
Chain 2V:



• Molecule 39: DMIP13

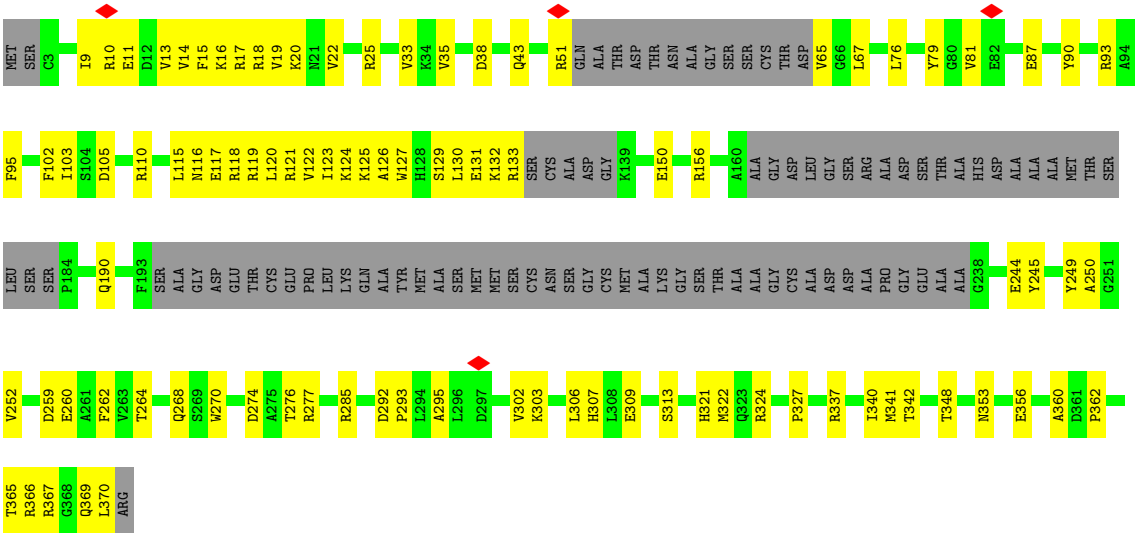
Chain 2X:





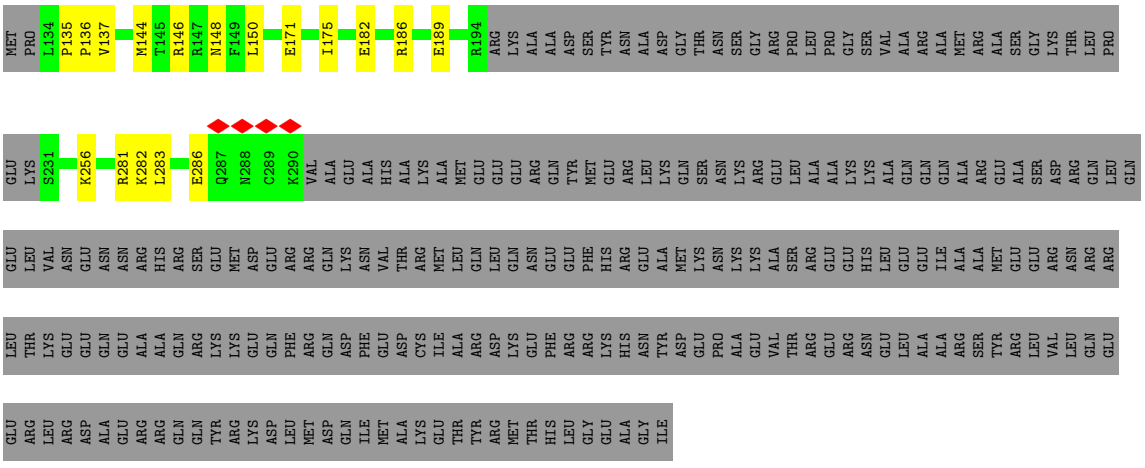
• Molecule 40: DMIP14

Chain 2Z:



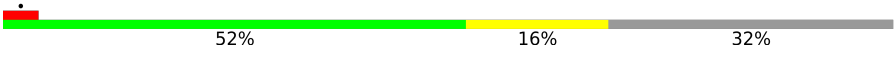
• Molecule 41: DMIP15

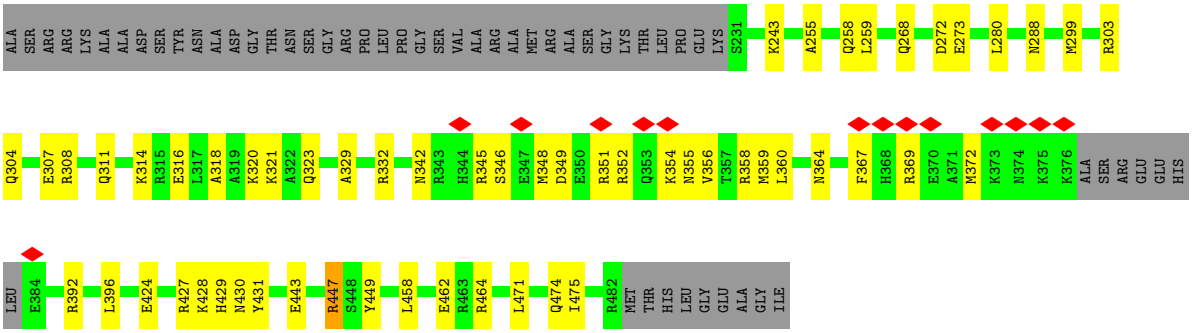
Chain 2b:



• Molecule 41: DMIP15

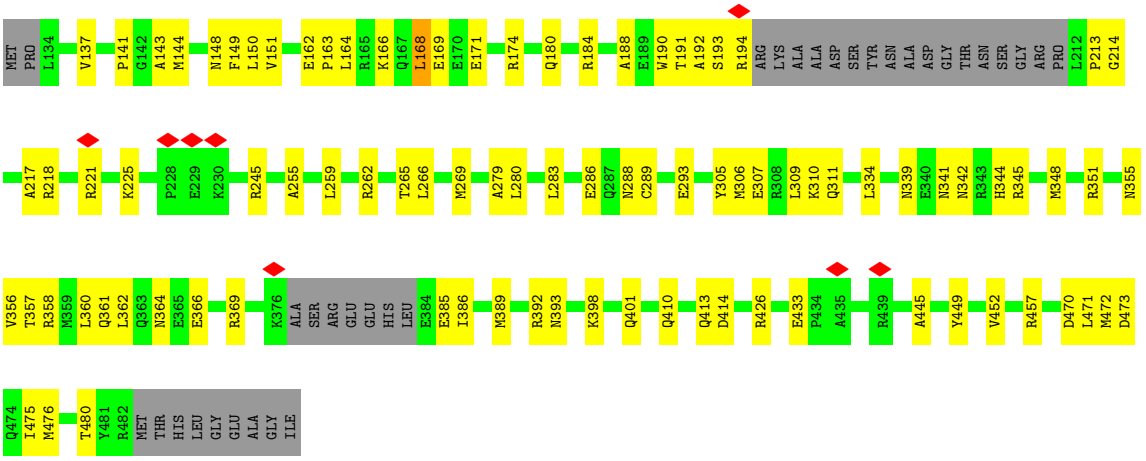
Chain 2c:





• Molecule 41: DMIP15

Chain 2e:

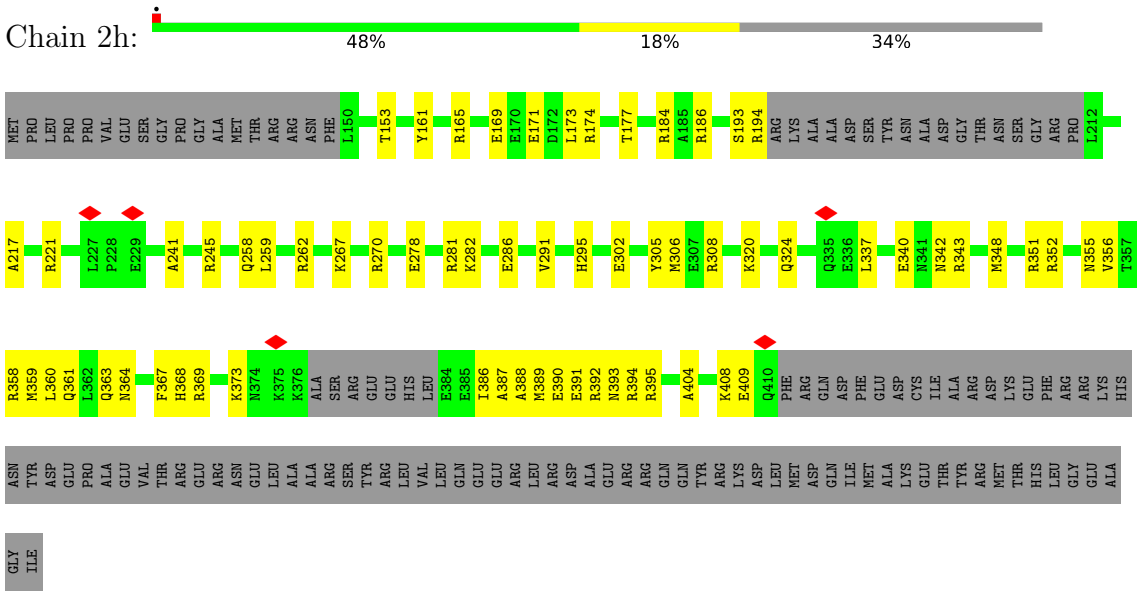


• Molecule 41: DMIP15

Chain 2f:

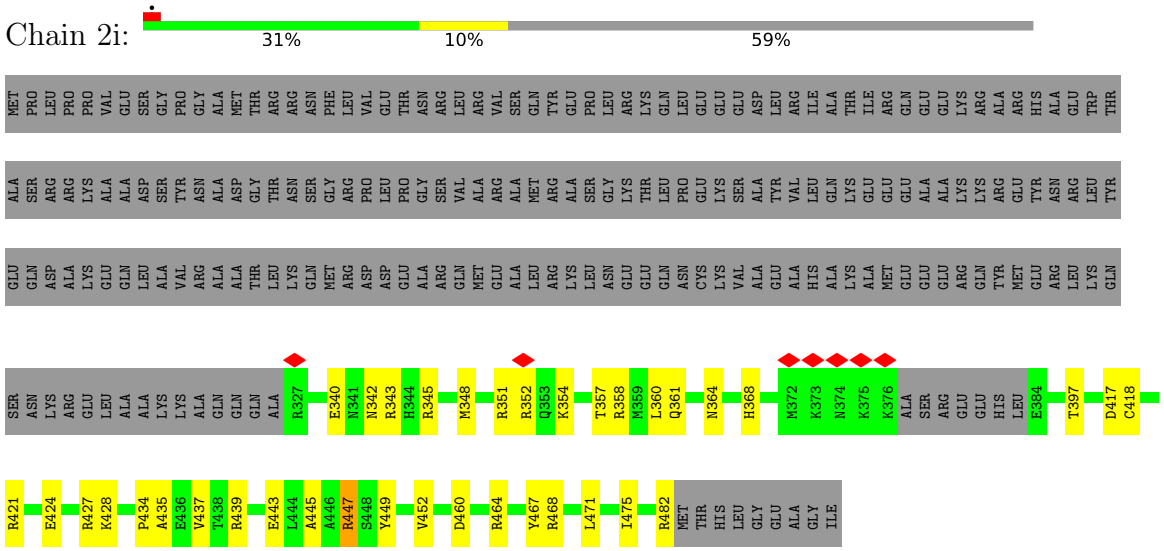
• Molecule 41: DMIP15

Chain 2h:



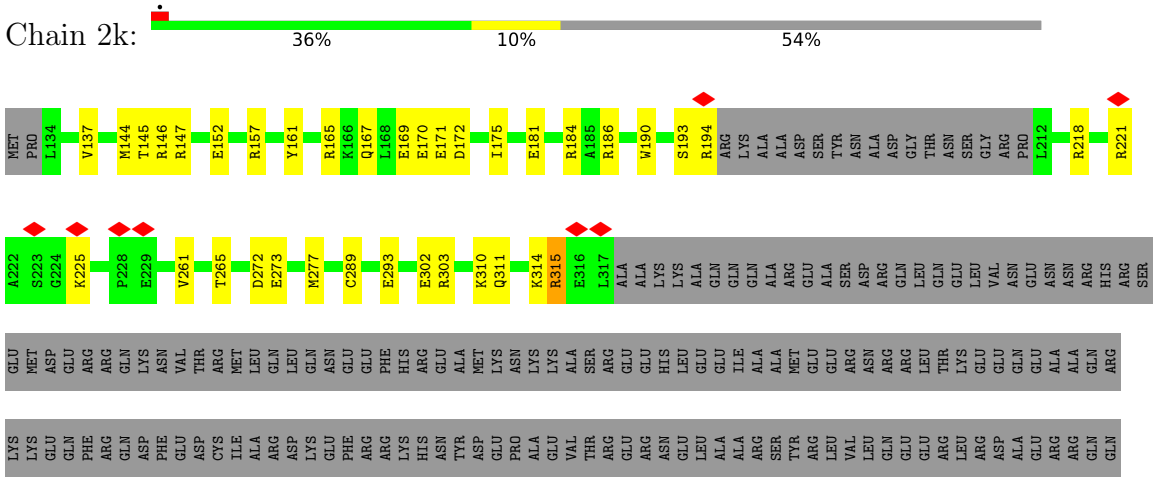
• Molecule 41: DMIP15

Chain 2i:



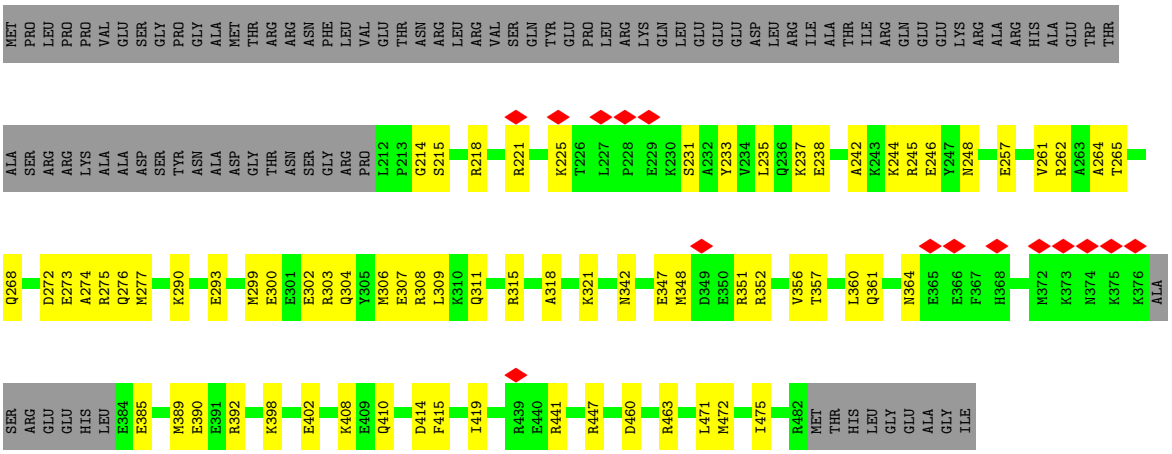
• Molecule 41: DMIP15

Chain 2k:



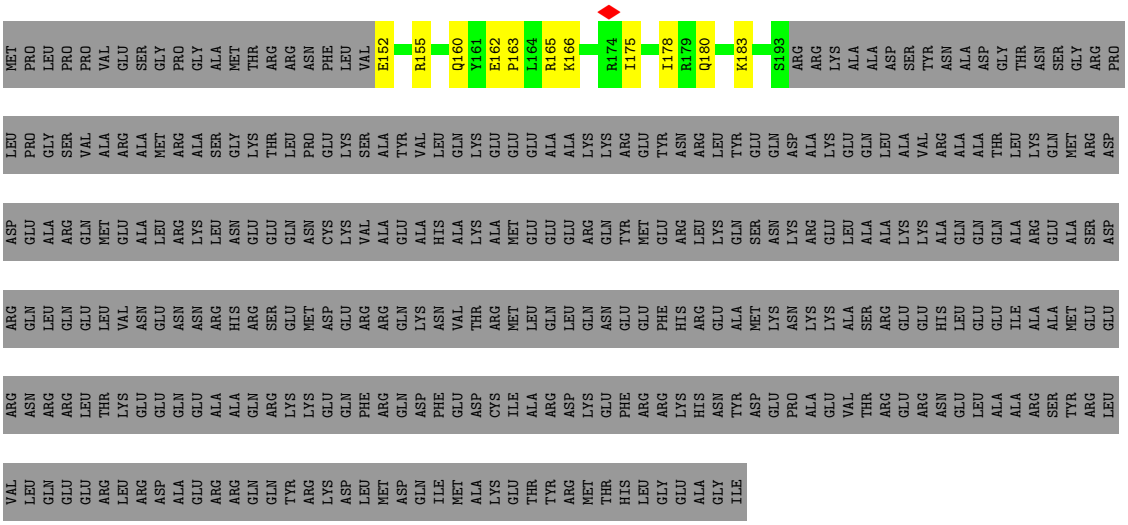
• Molecule 41: DMIP15

Chain 2l:



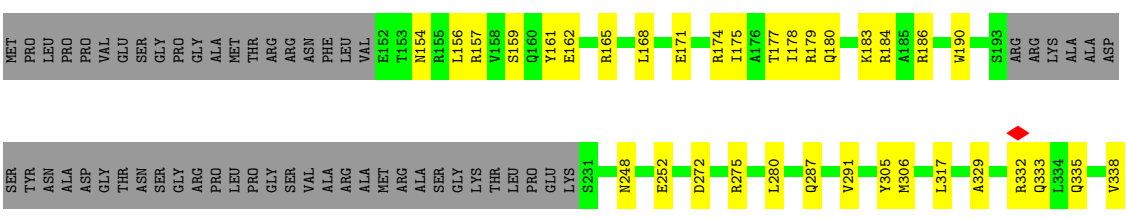
• Molecule 41: DMIP15

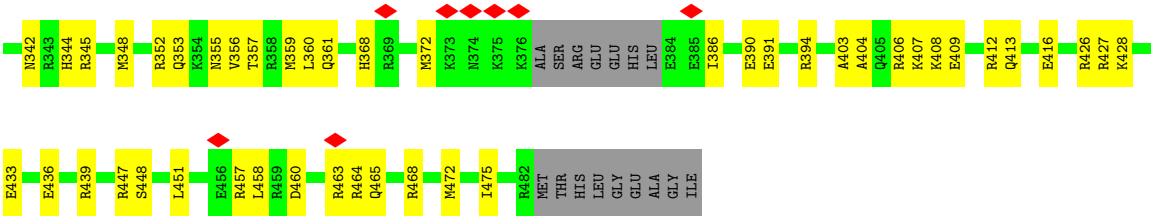
Chain 2n:



• Molecule 41: DMIP15

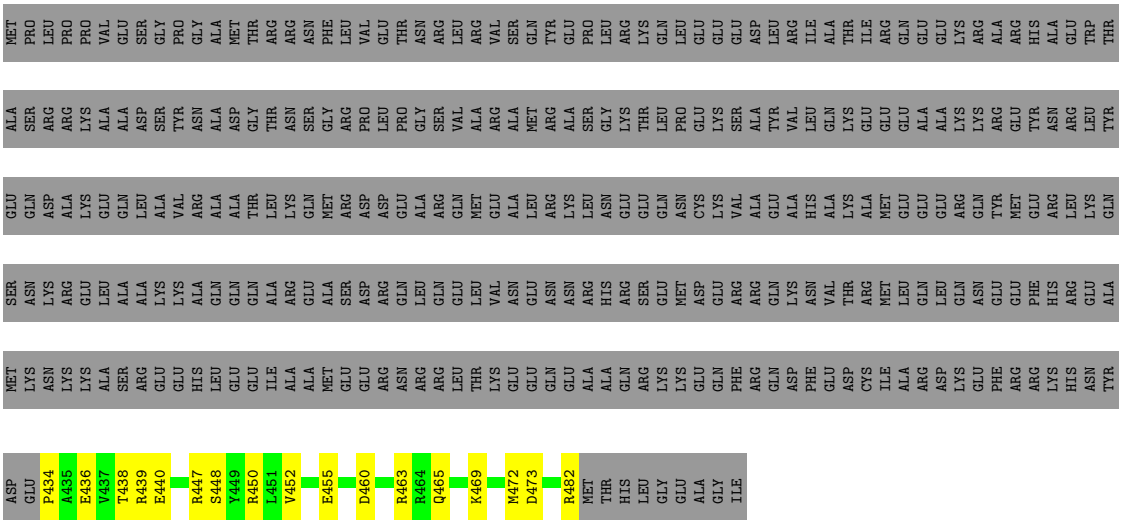
Chain 2o:





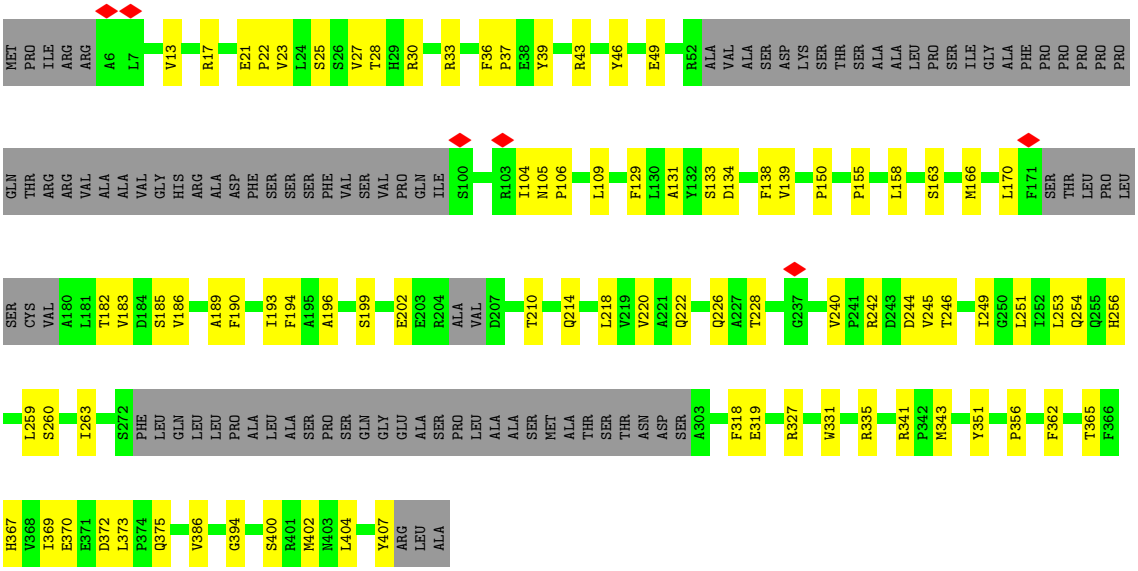
• Molecule 41: DMIP15

Chain 2p:



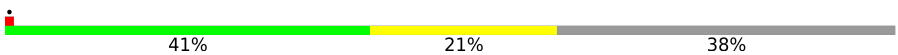
• Molecule 42: DMIP16

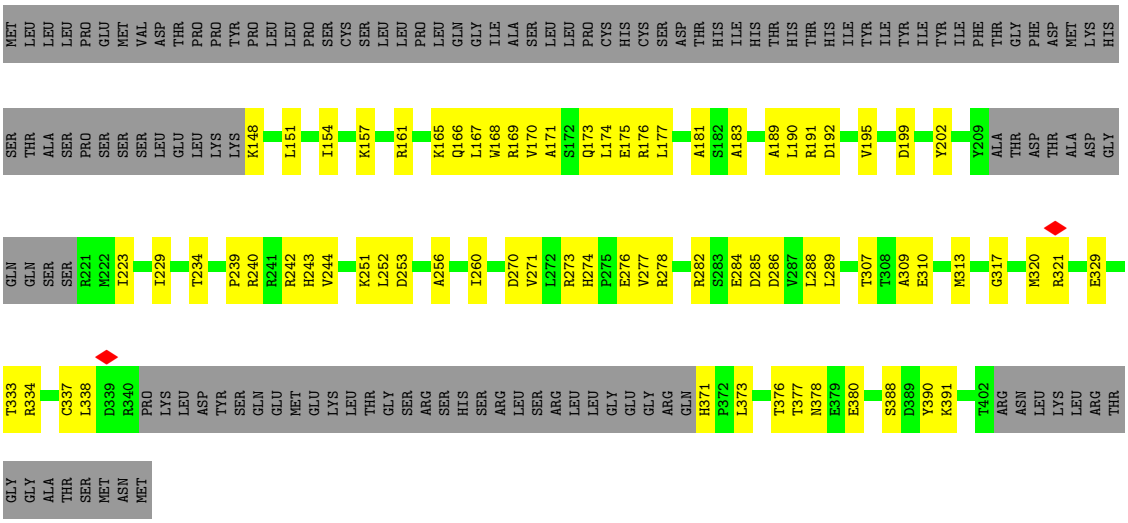
Chain 2r:



• Molecule 43: DMIP17

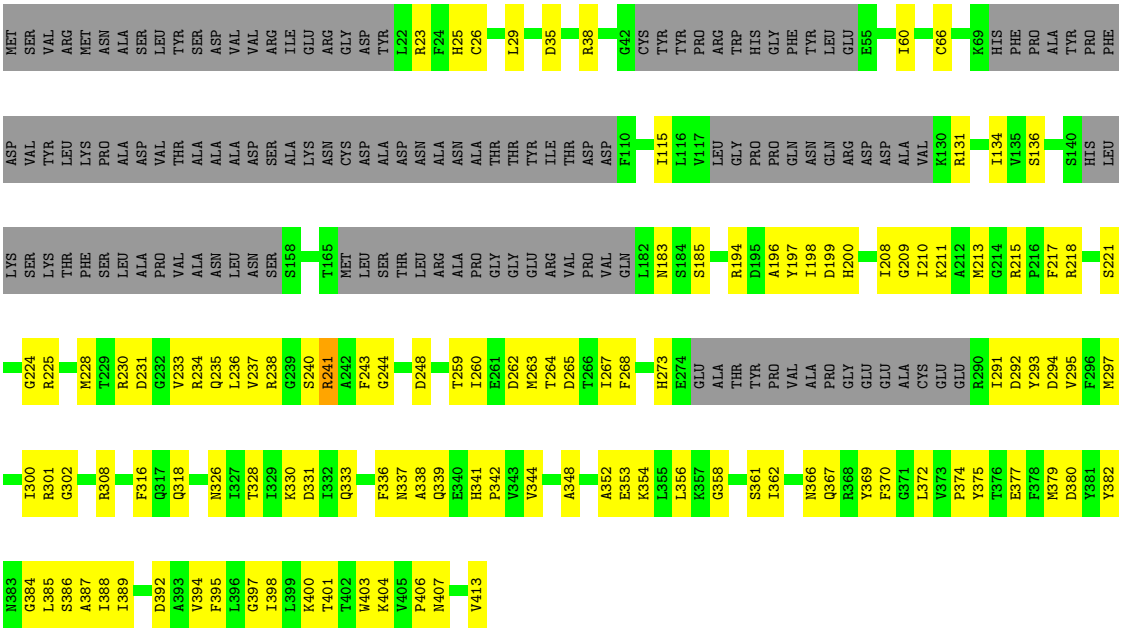
Chain 2t:





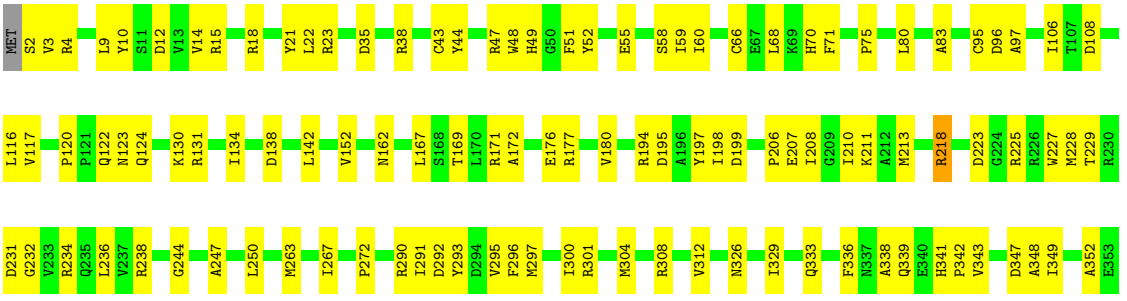
• Molecule 44: DMIP18

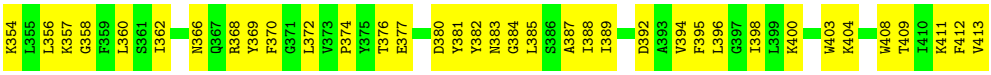
Chain 2v:



• Molecule 44: DMIP18

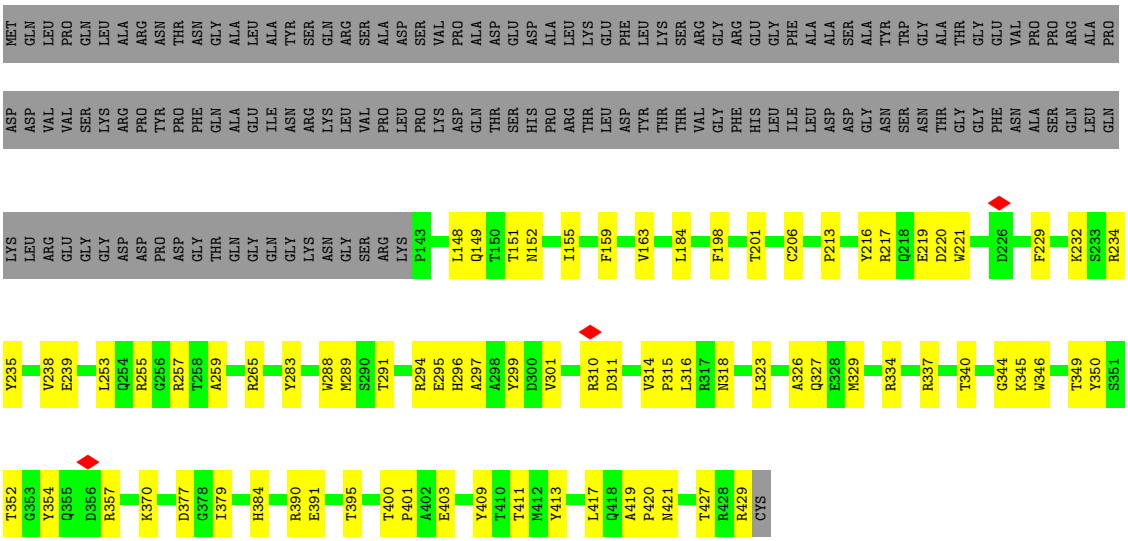
Chain 2w:





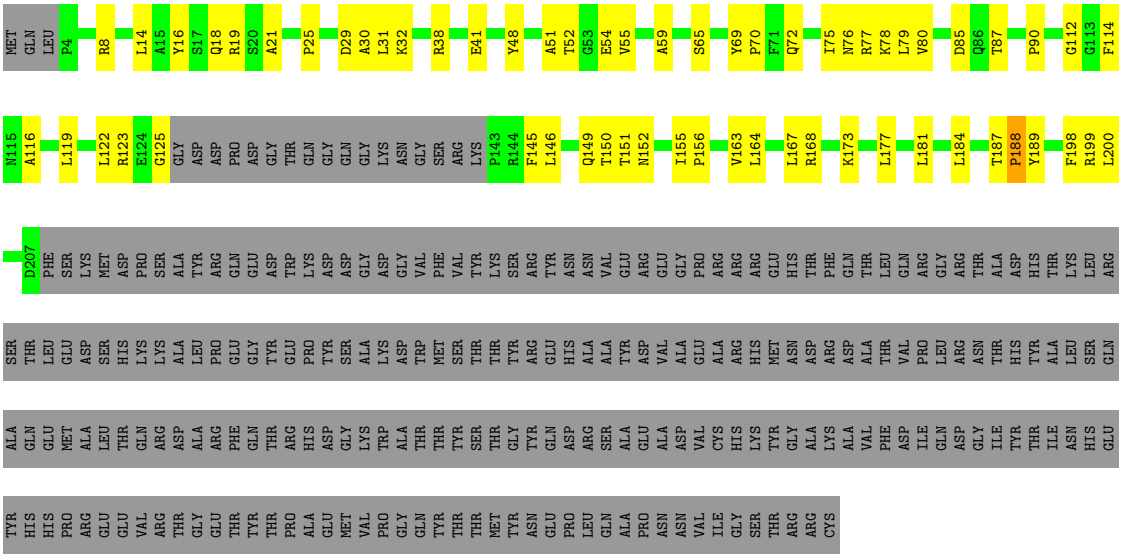
• Molecule 45: DMIP19

Chain 2y:



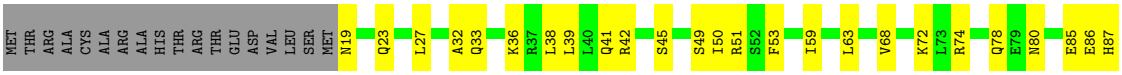
• Molecule 45: DMIP19

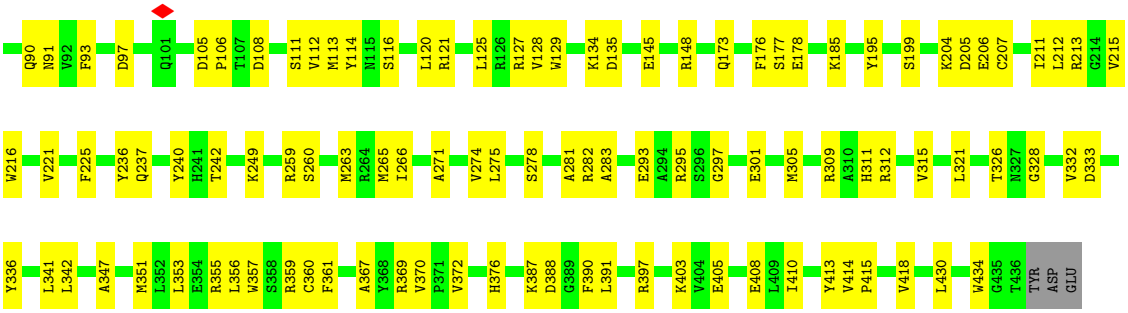
Chain 2z:



• Molecule 46: DMIP20

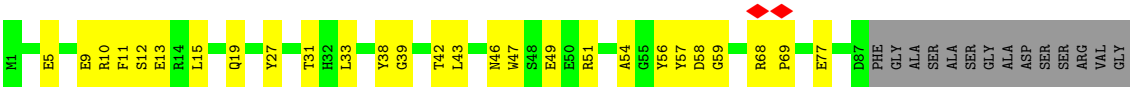
Chain 3B:

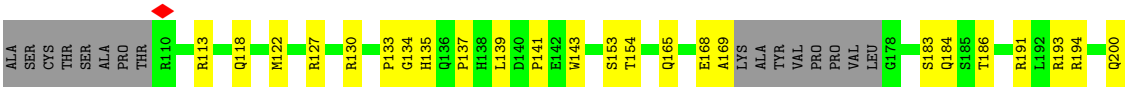


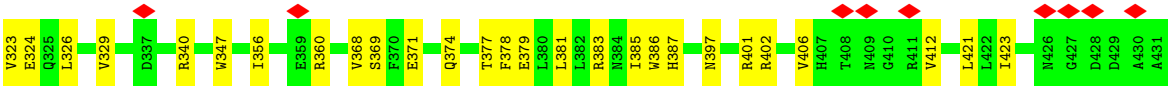


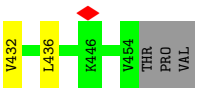
• Molecule 47: DMIP21

Chain 3D:



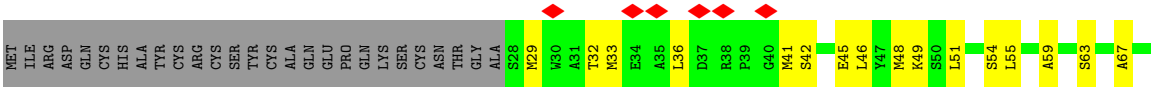


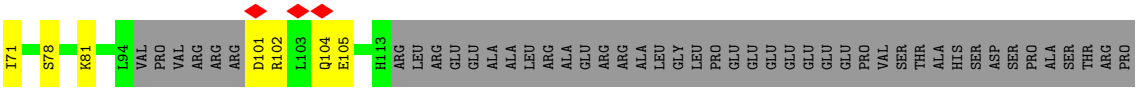


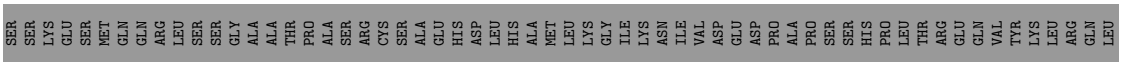


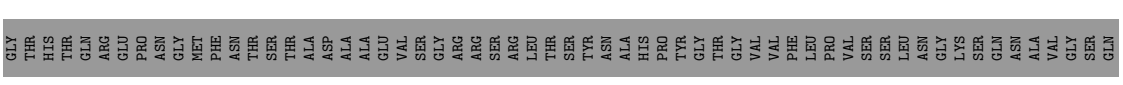
• Molecule 48: DMIP22

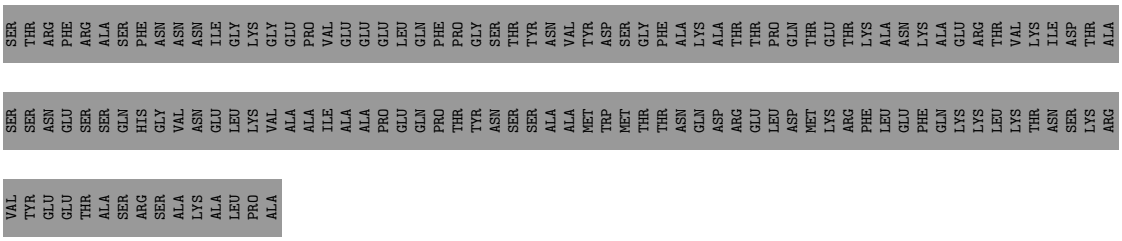
Chain 3I:





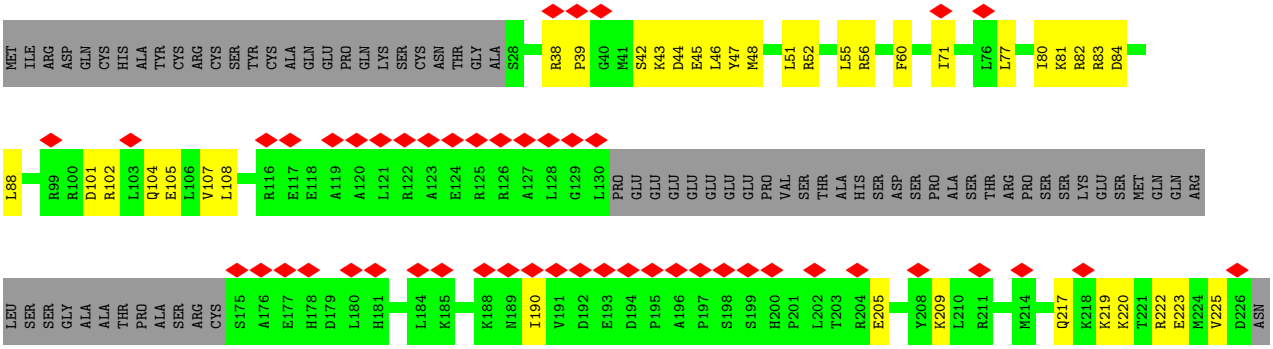






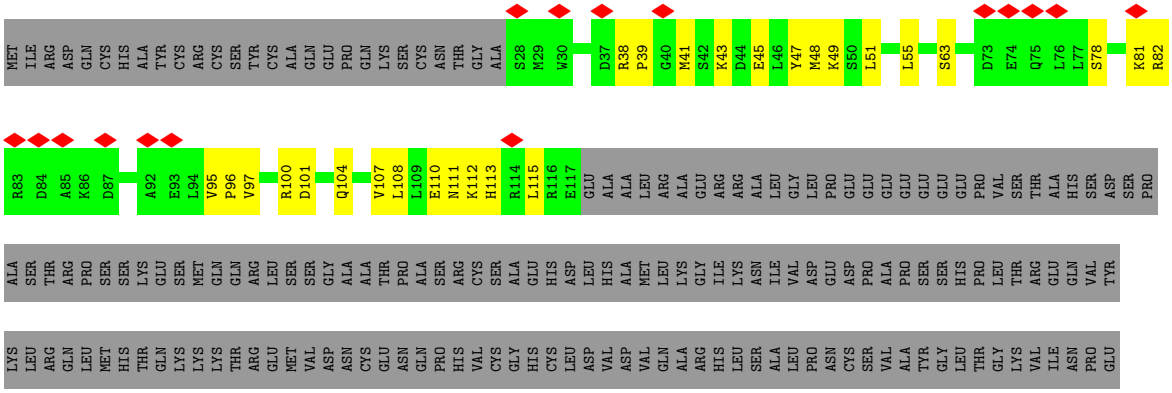
• Molecule 48: DMIP22

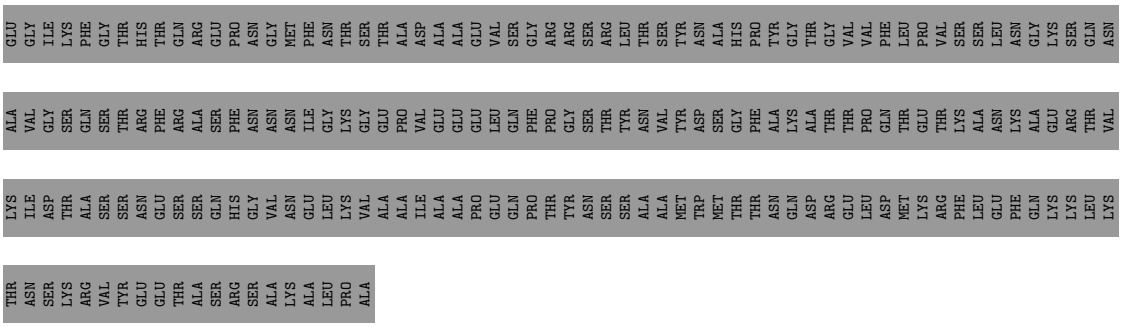
Chain 3F:



• Molecule 48: DMIP22

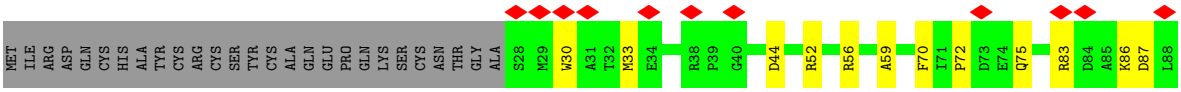
Chain 3G:

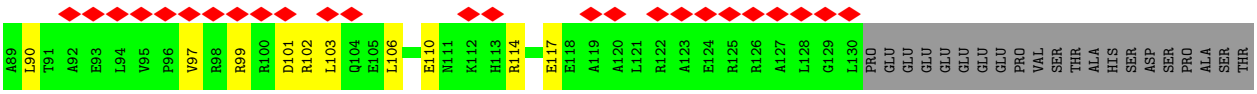




- Molecule 48: DMIP22

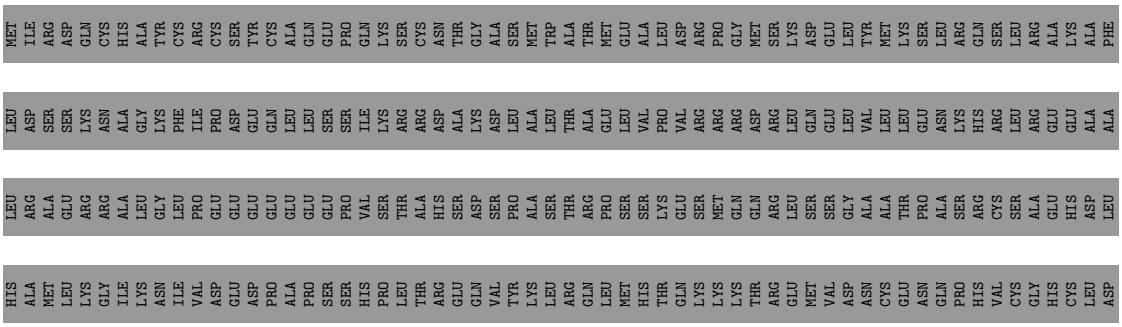
Chain 3H:

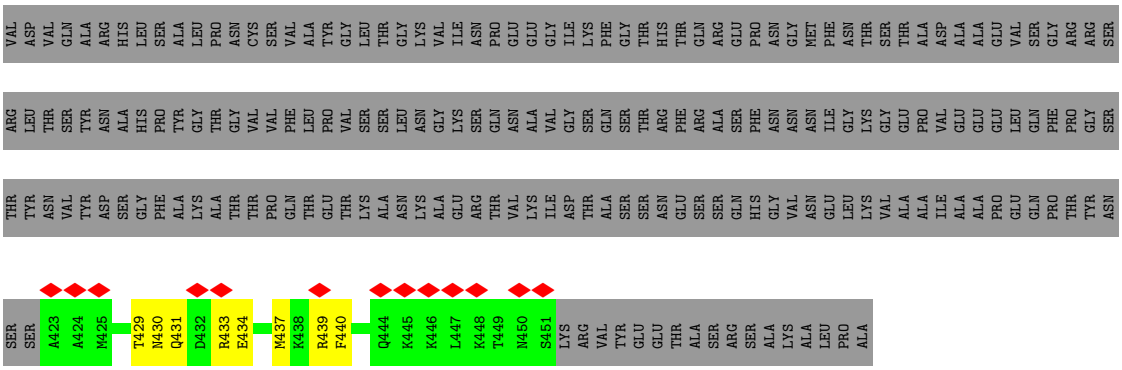




- Molecule 48: DMIP22

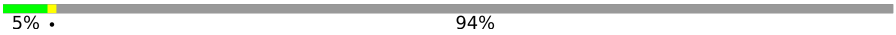
Chain 3M:

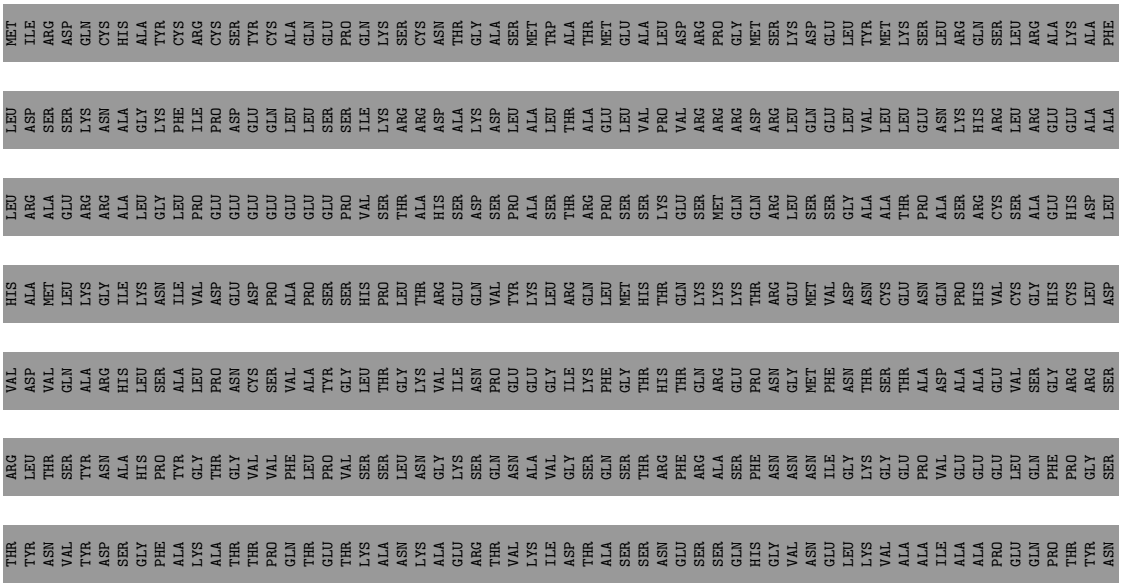




• Molecule 48: DMIP22

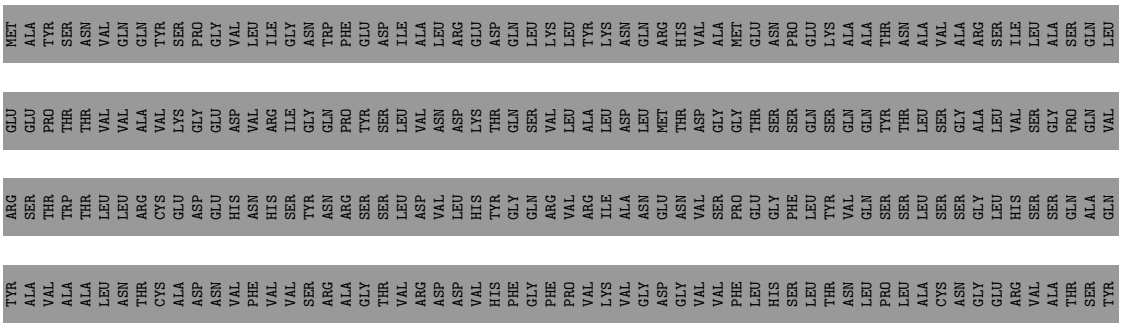
Chain 3L:

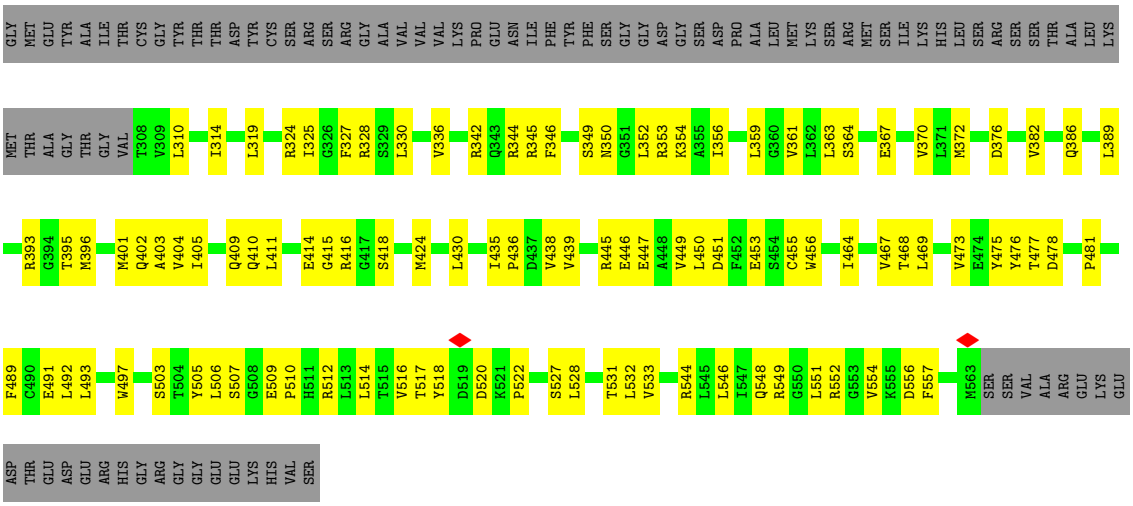




• Molecule 49: DMIP23

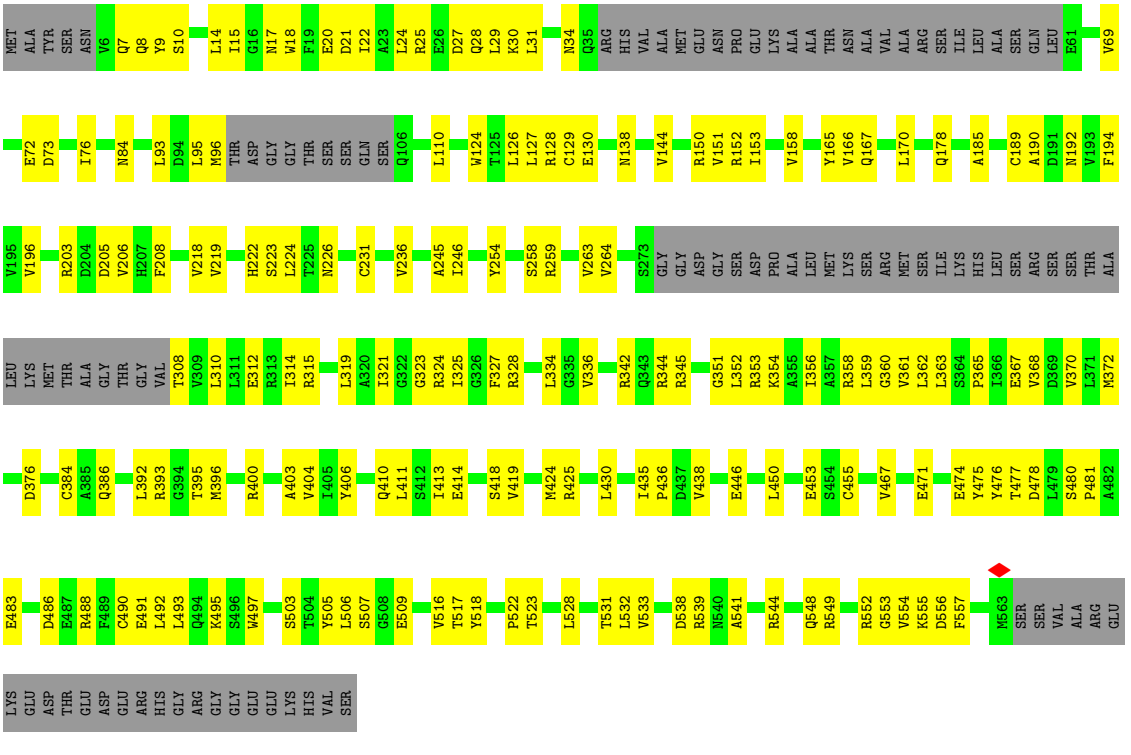
Chain 3P:





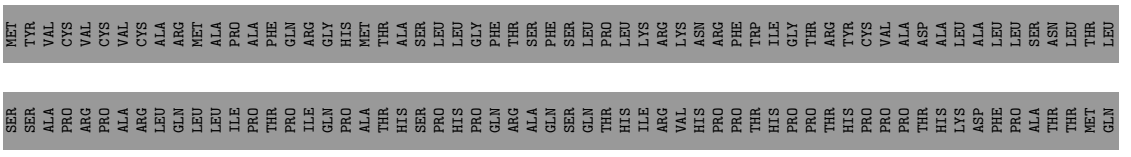
• Molecule 49: DMIP23

Chain 3Q:



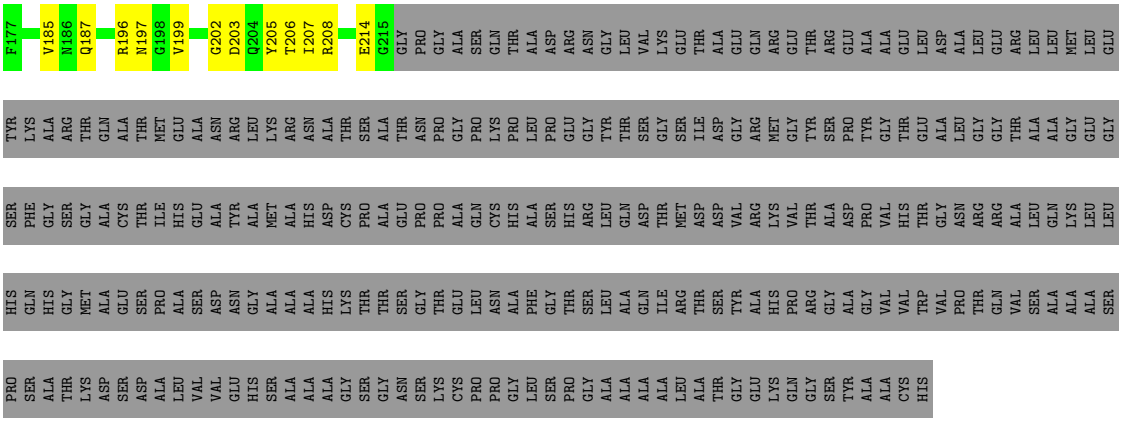
• Molecule 50: DMIP24

Chain 3S:



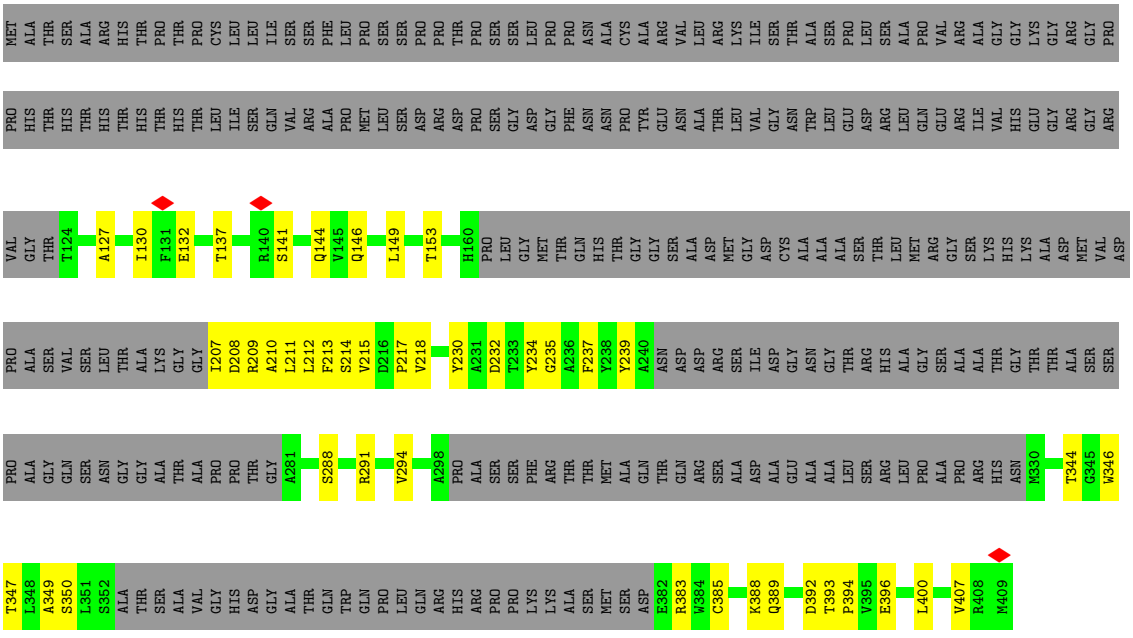
• Molecule 51: DMIP24

Chain X1:



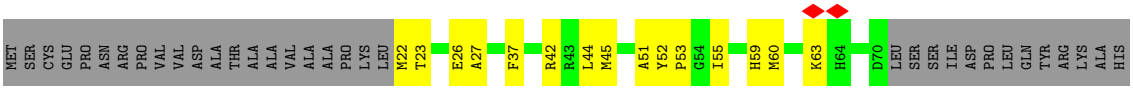
• Molecule 52: DMIP25

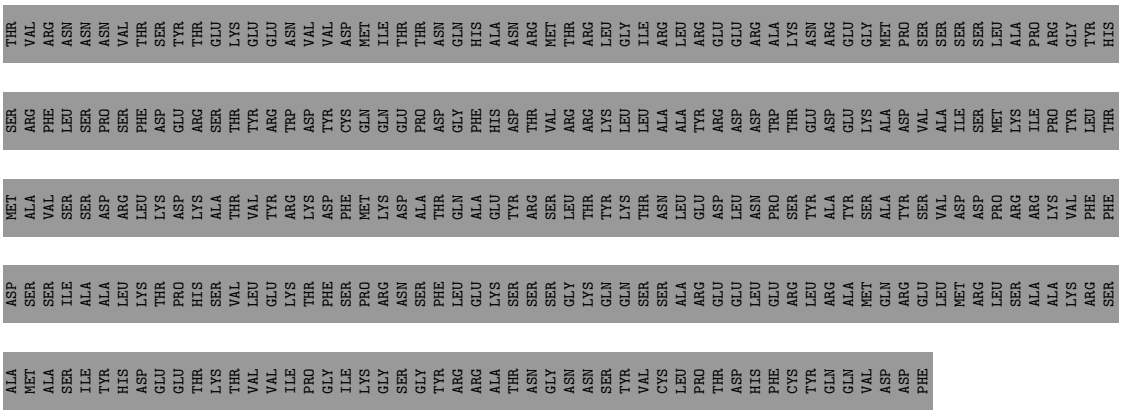
Chain 3U:



• Molecule 53: DMIP26

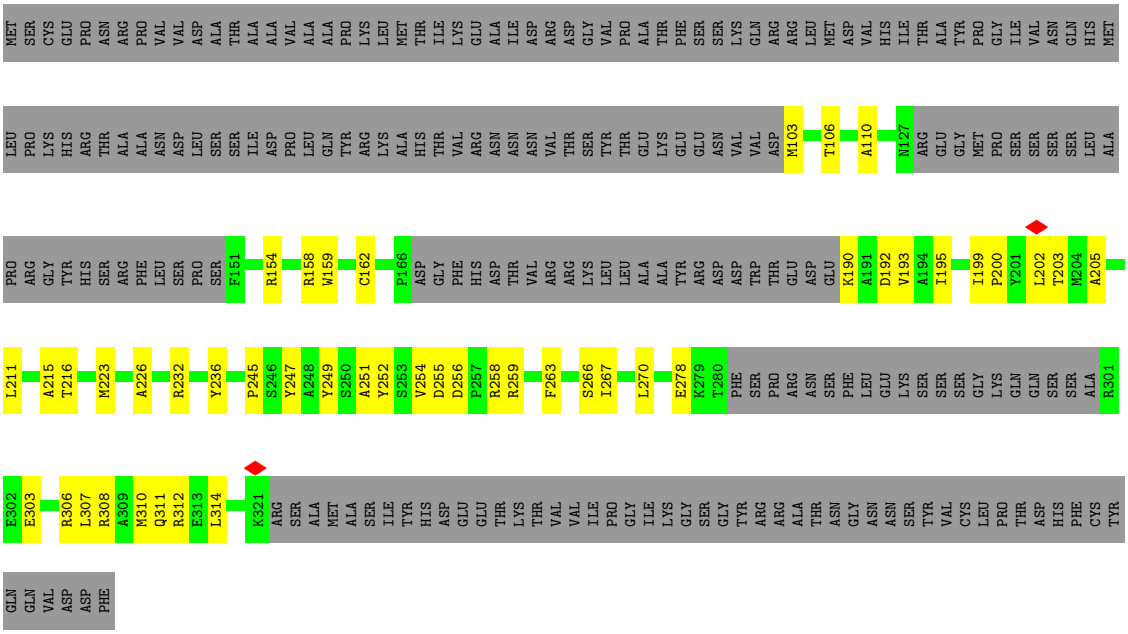
Chain 3X:





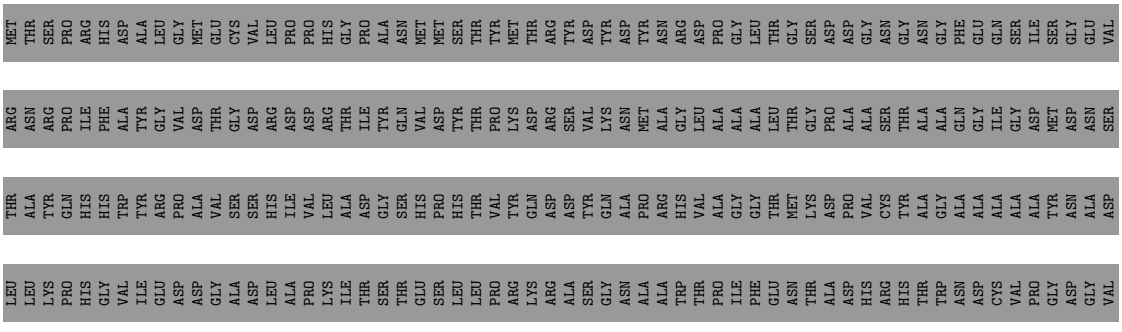
- Molecule 53: DMIP26

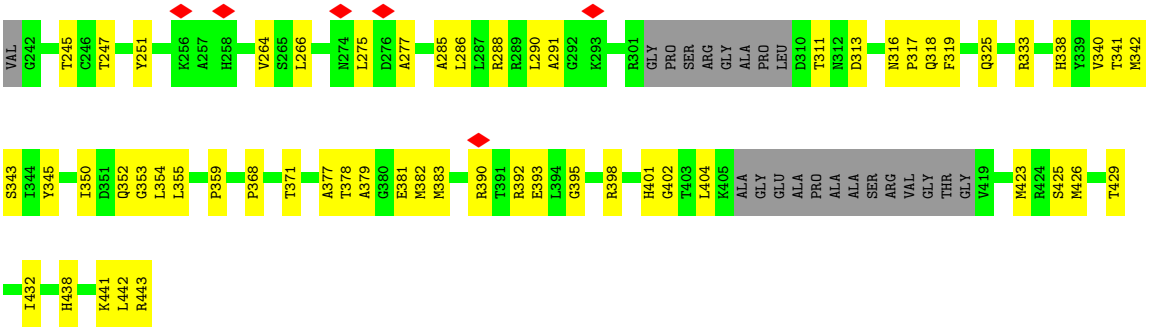
Chain 3W:



- Molecule 54: DMIP27

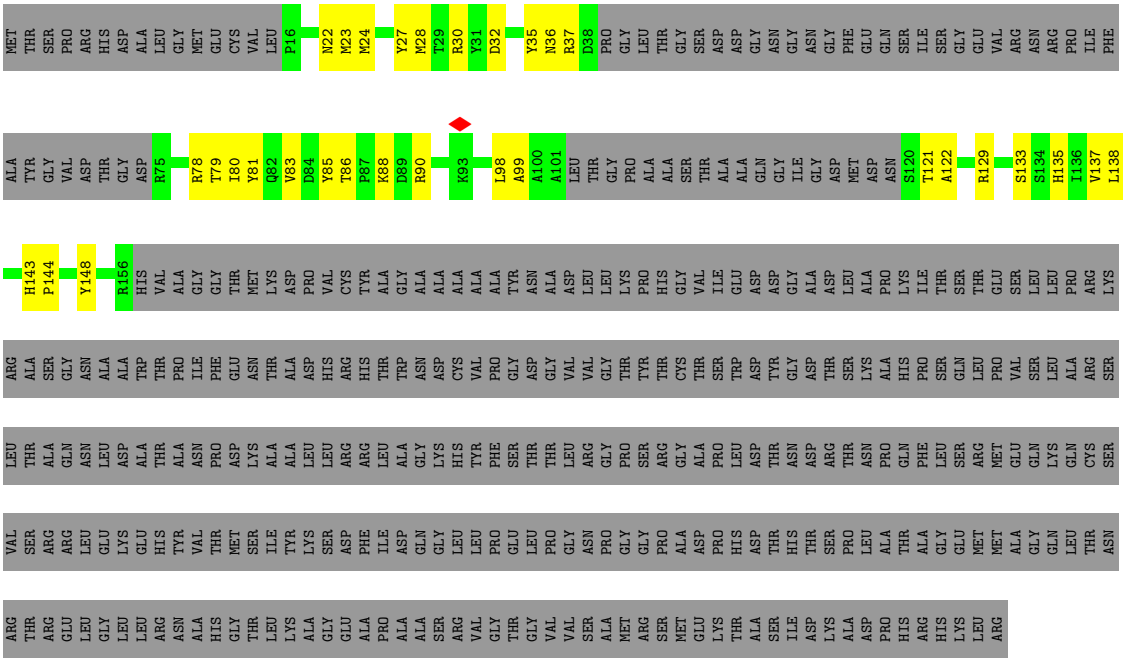
Chain 3Z:





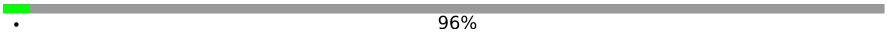
• Molecule 54: DMIP27

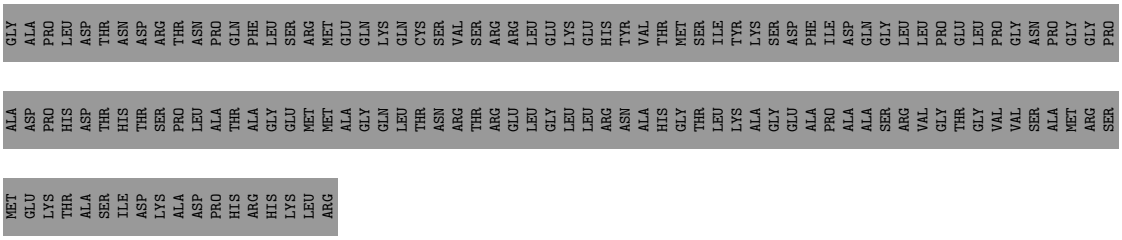
Chain 3a:



• Molecule 54: DMIP27

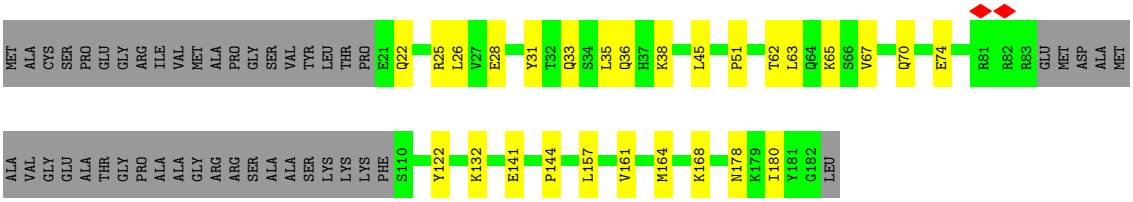
Chain 4Y:





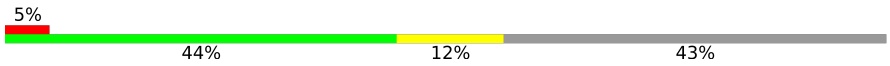
• Molecule 55: ArcMAP2

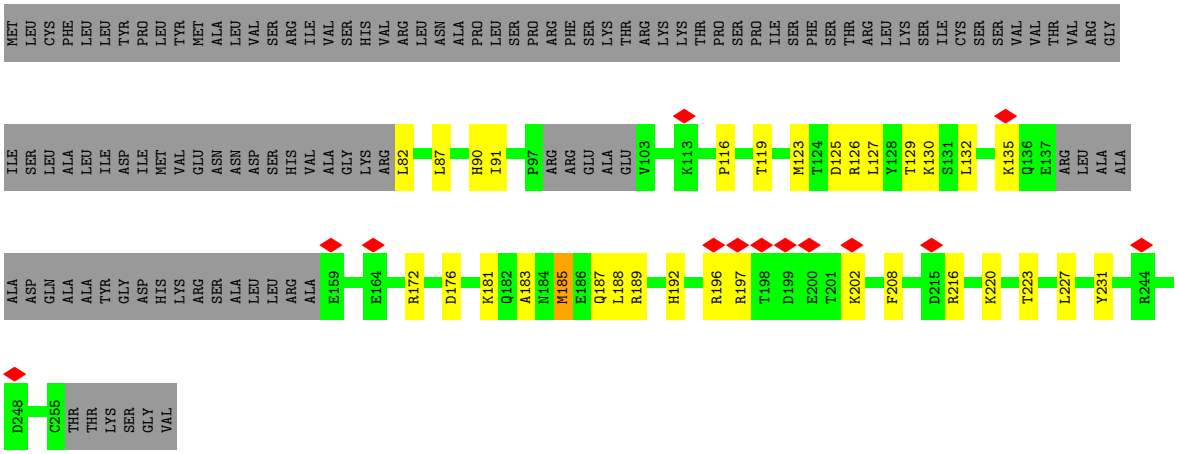
Chain 3b:



• Molecule 56: ArcMAP1

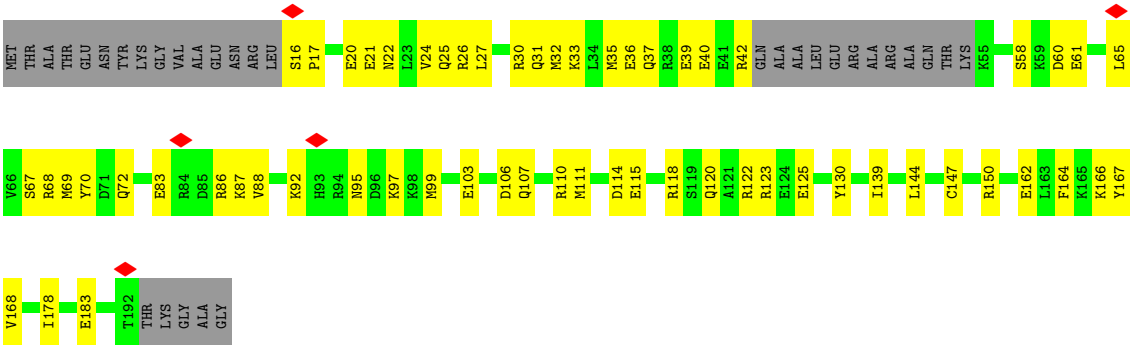
Chain 3d:





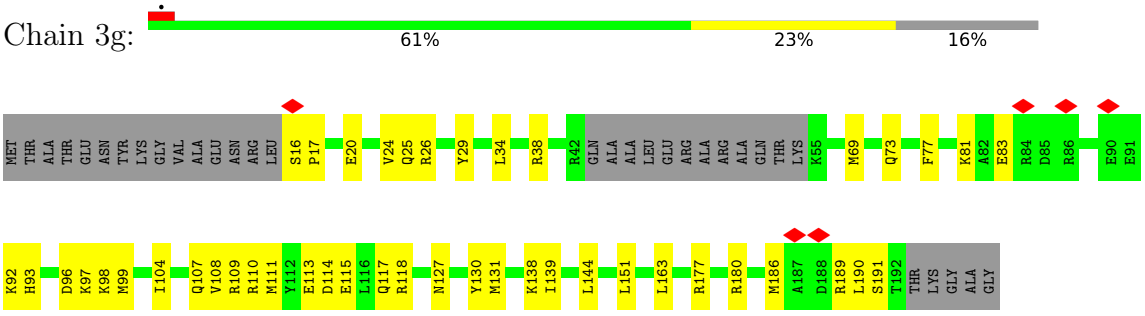
• Molecule 57: ArcMAP4

Chain 3f:



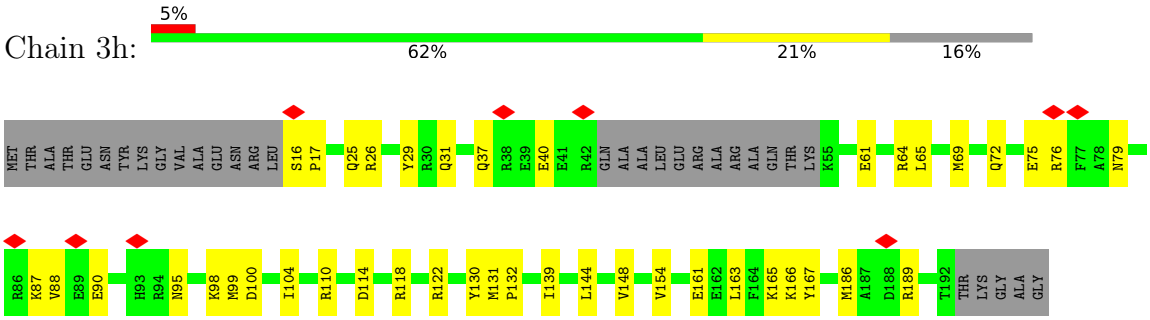
• Molecule 57: ArcMAP4

Chain 3g:



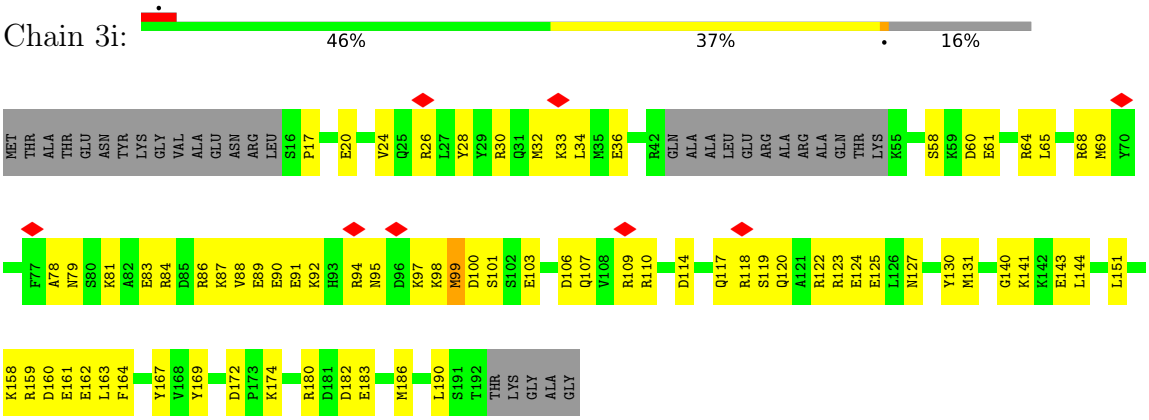
• Molecule 57: ArcMAP4

Chain 3h:



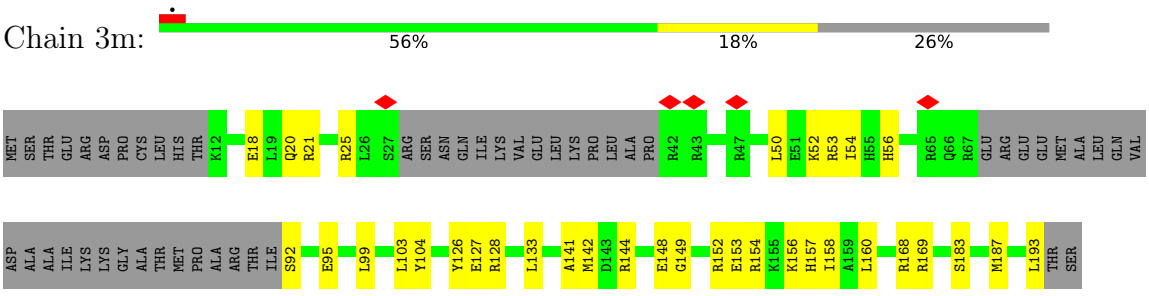
• Molecule 57: ArcMAP4

Chain 3i:



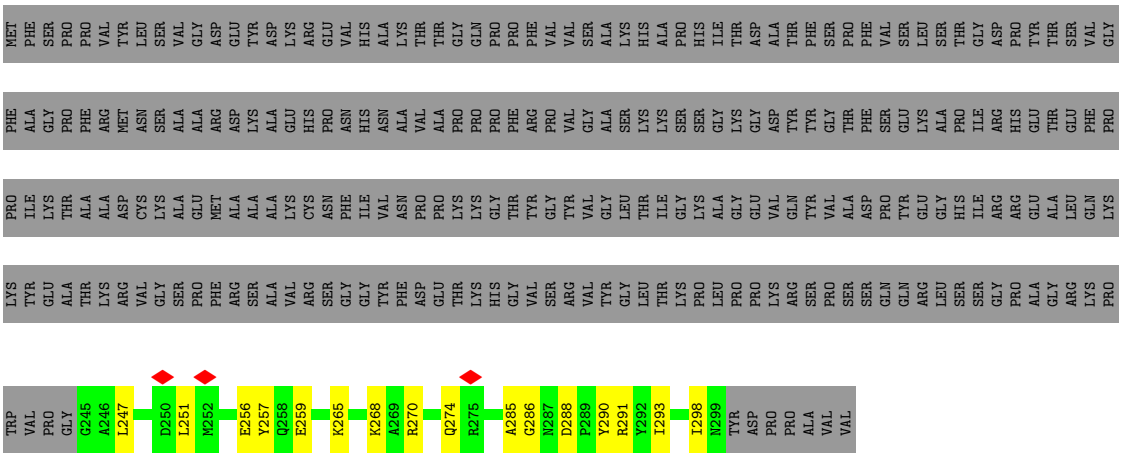
• Molecule 58: ArcMAP3

Chain 3m:



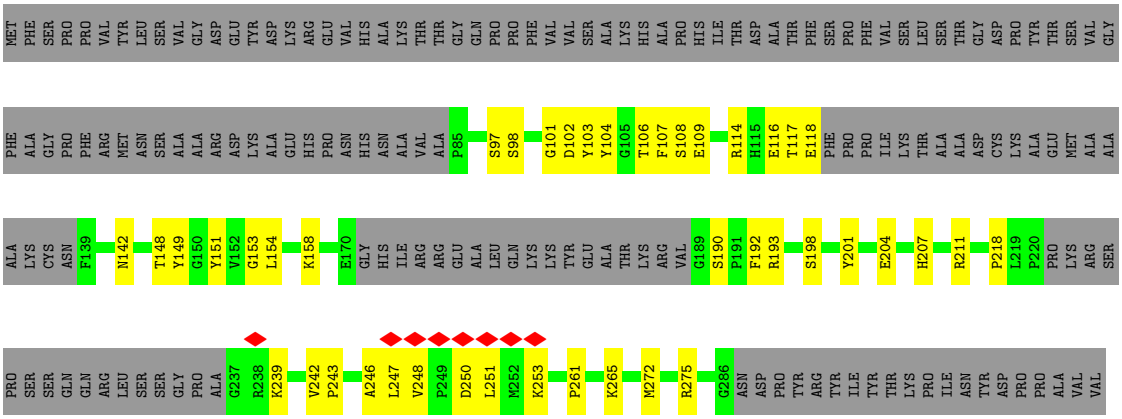
• Molecule 59: CFAP96

Chain 3o:



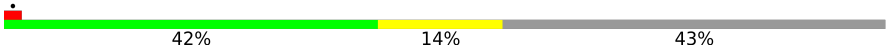
• Molecule 59: CFAP96

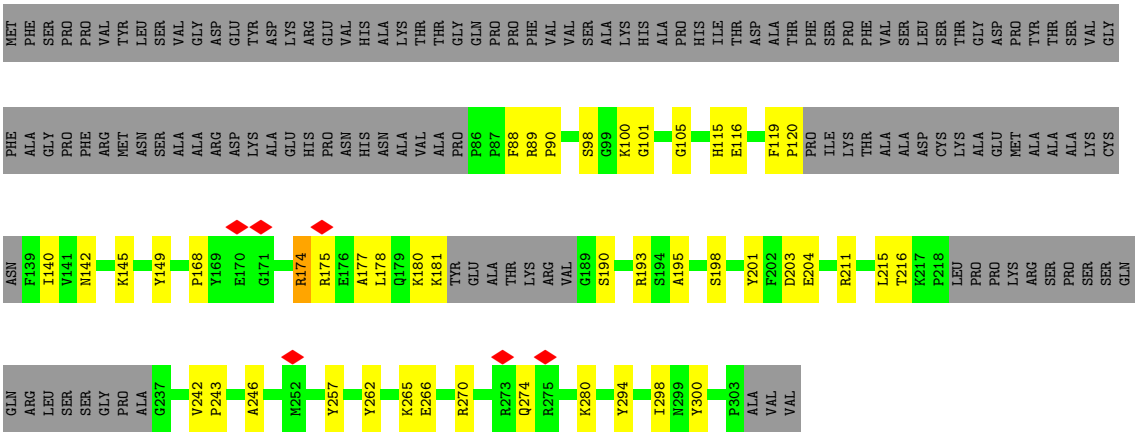
Chain 3p:



• Molecule 59: CFAP96

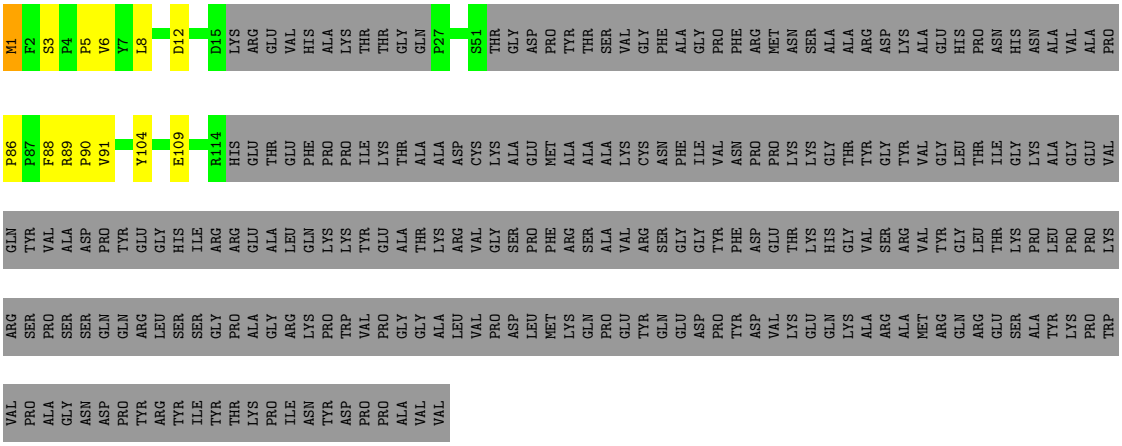
Chain 4O:





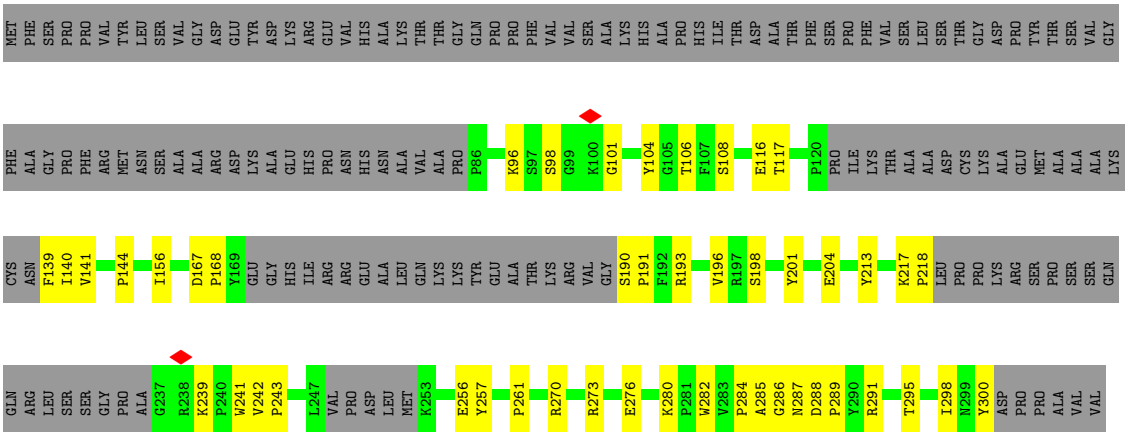
• Molecule 59: CFAP96

Chain 4P:



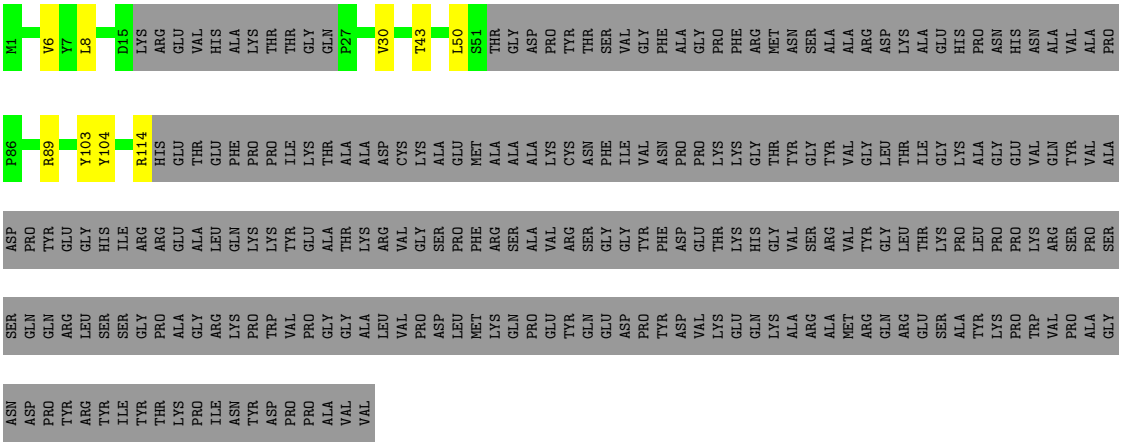
• Molecule 59: CFAP96

Chain 4a:



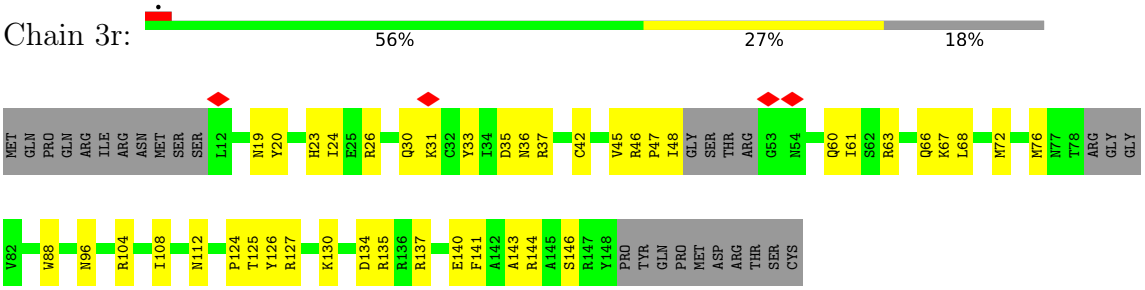
• Molecule 59: CFAP96

Chain 4b:



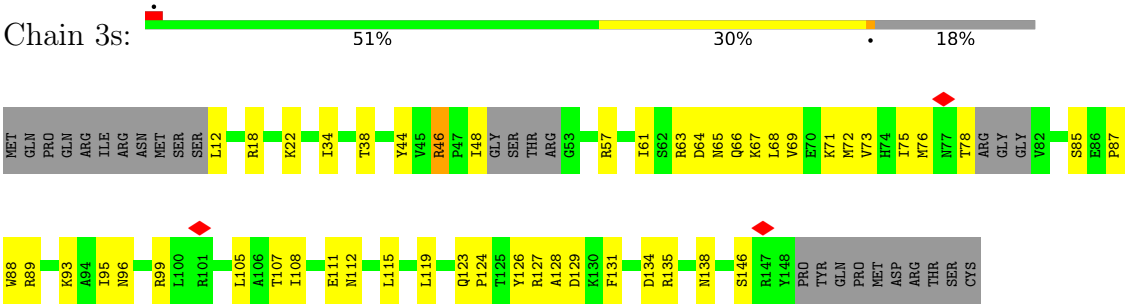
• Molecule 60: CFAP97

Chain 3r:



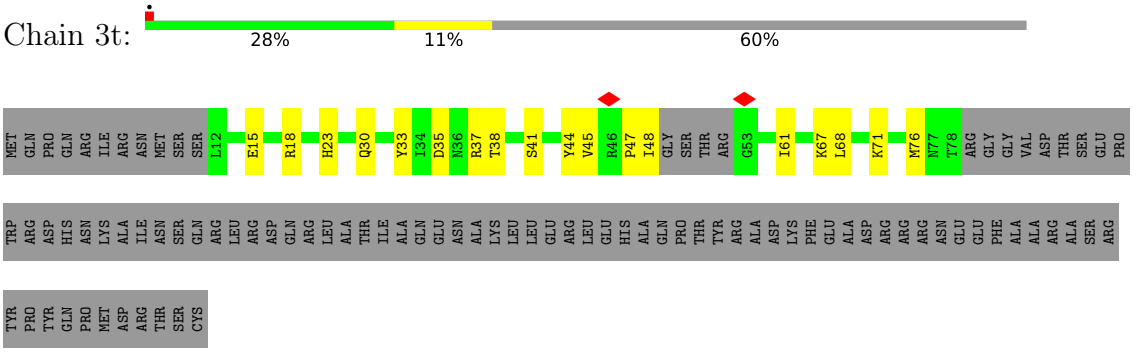
• Molecule 60: CFAP97

Chain 3s:



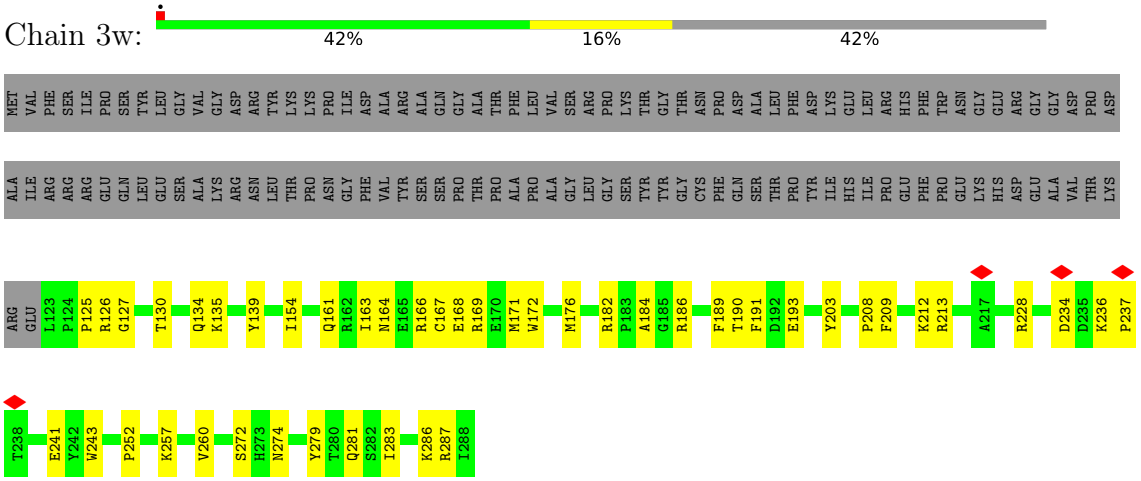
• Molecule 60: CFAP97

Chain 3t:



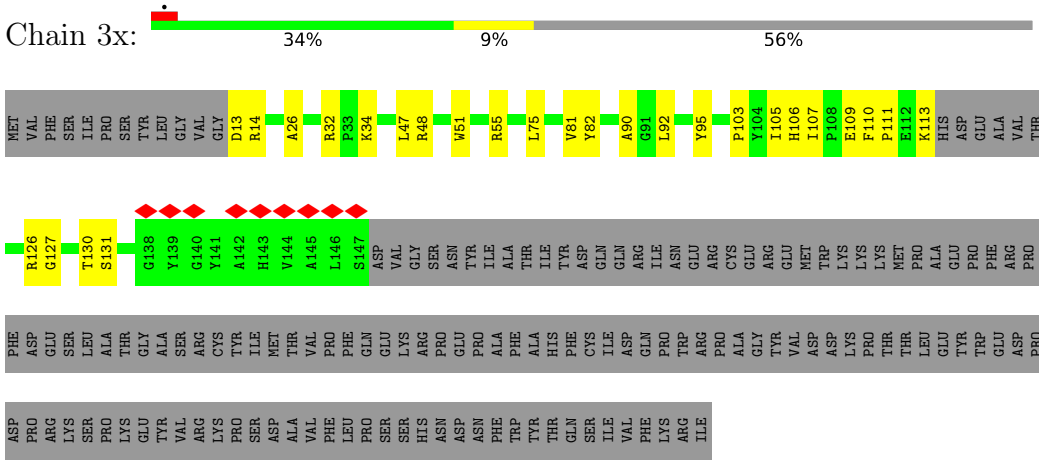
• Molecule 61: DMAP1

Chain 3w:



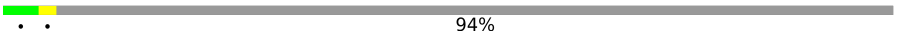
• Molecule 61: DMAP1

Chain 3x:



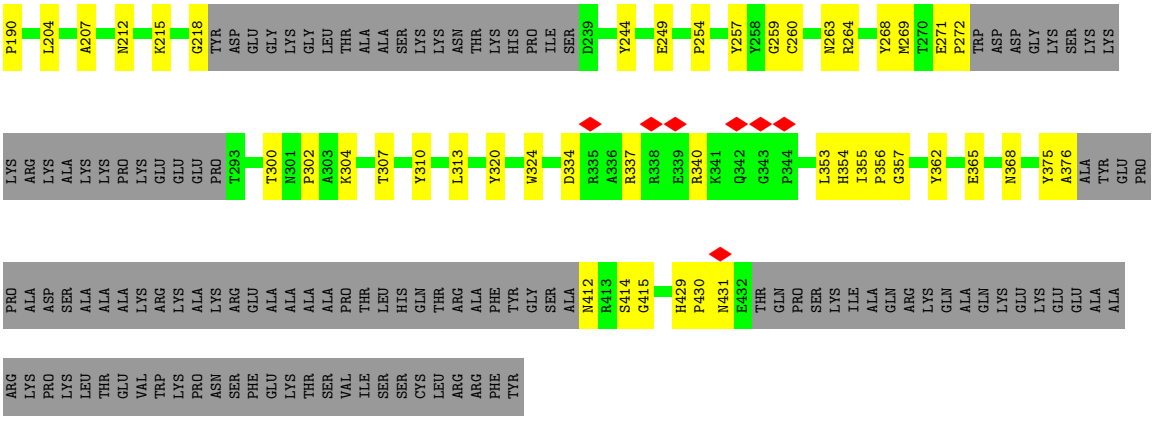
• Molecule 62: DMAP2

Chain 4A:



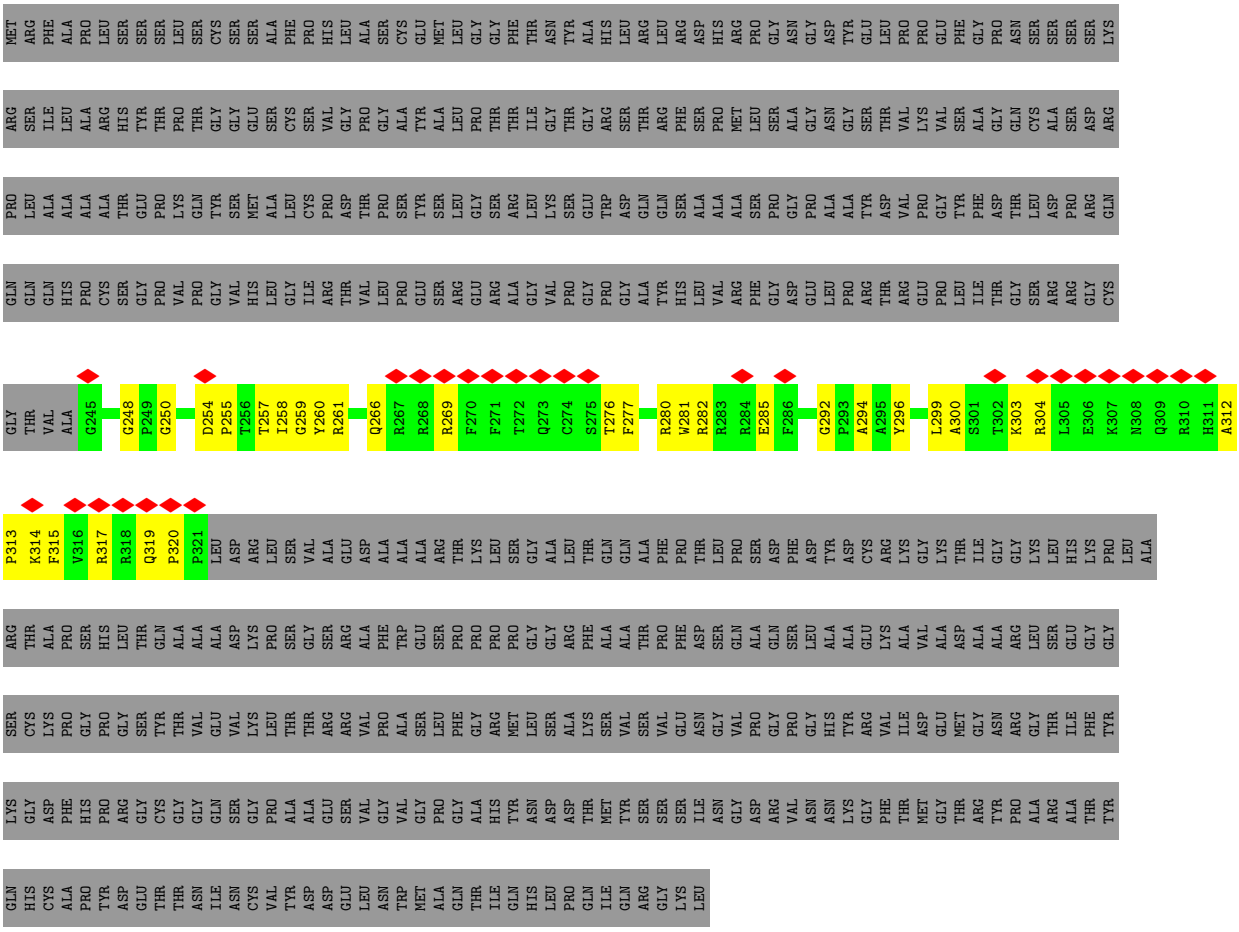
• Molecule 62: DMAP2

Chain 4B:



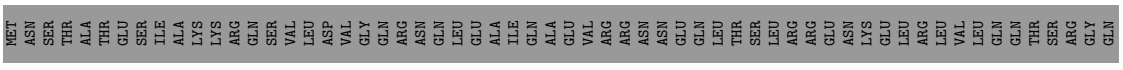
• Molecule 63: DMAP7

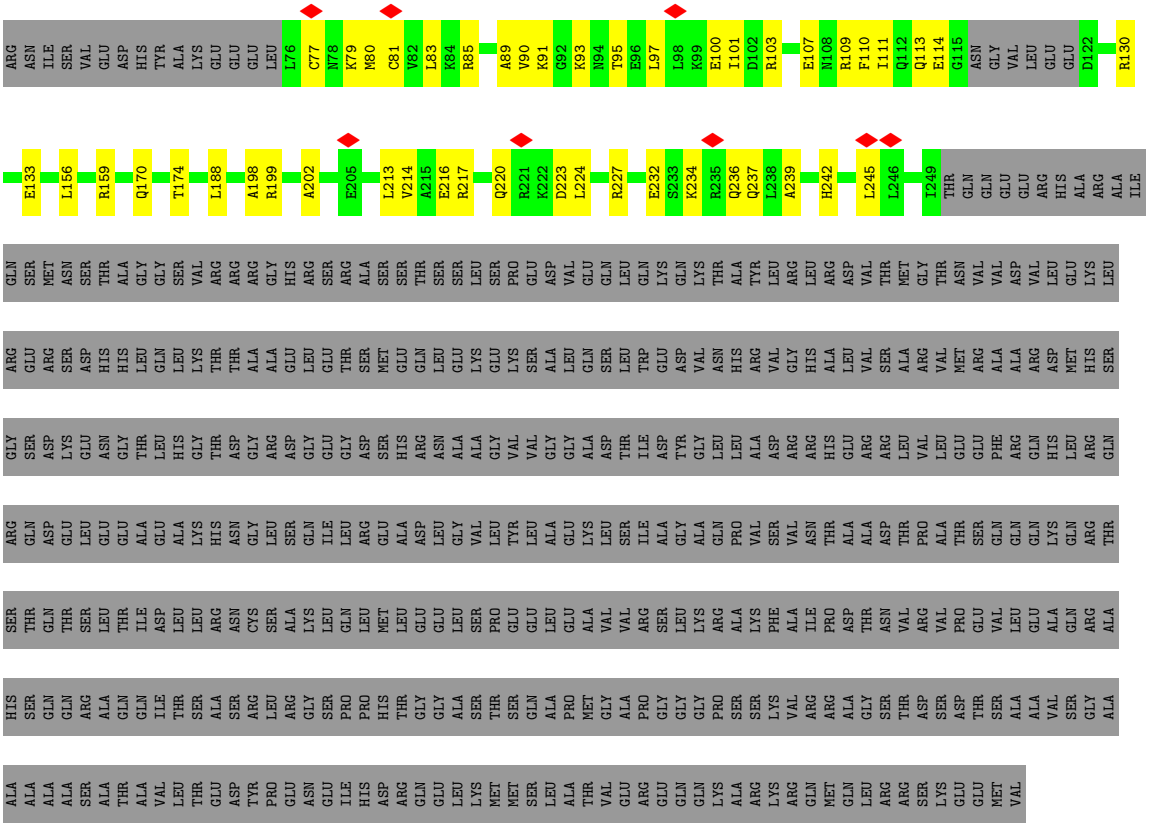
Chain 4I:



• Molecule 64: distal DC1

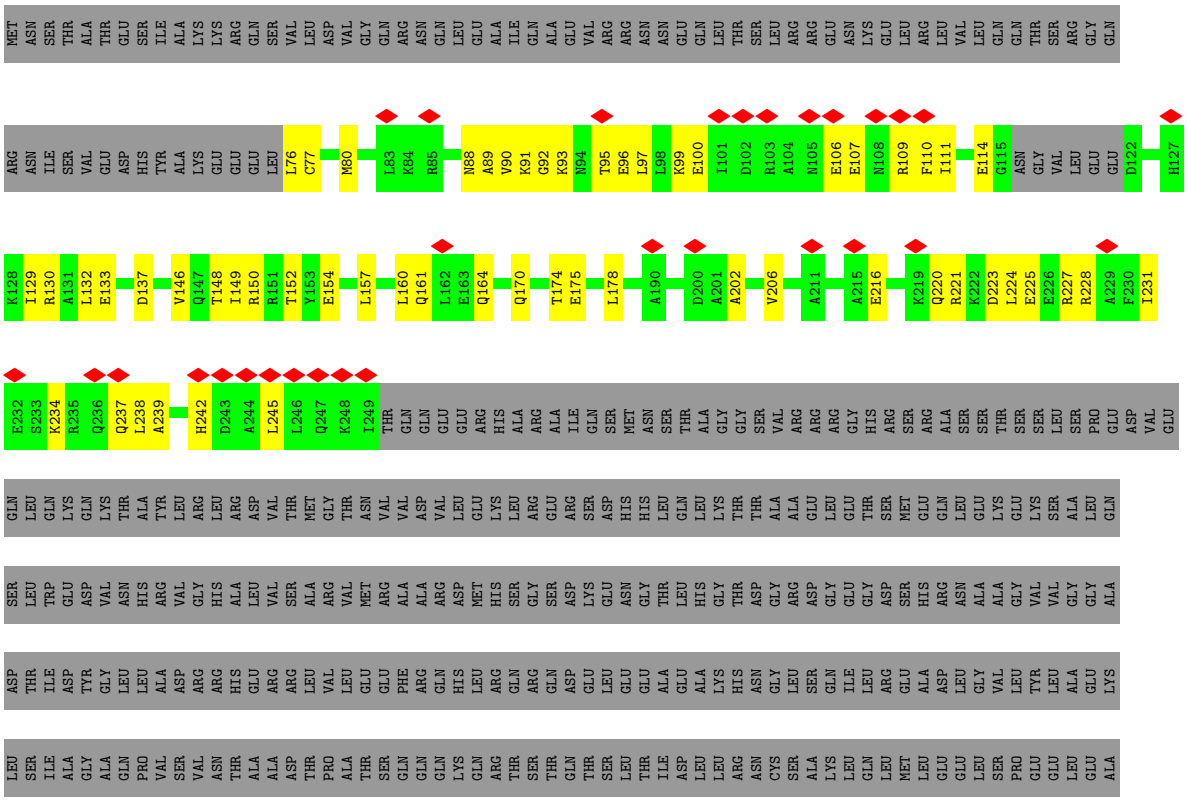
Chain 5B:

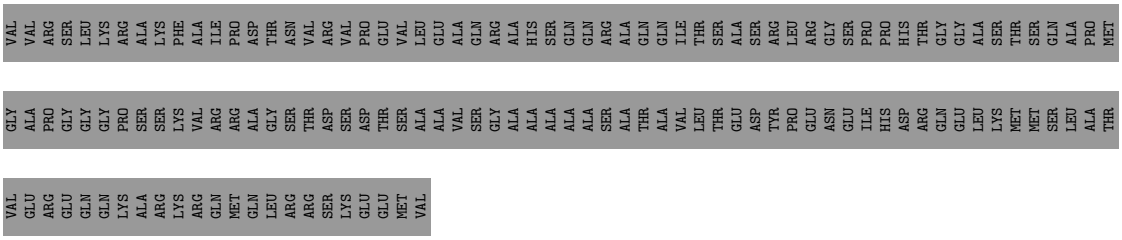




• Molecule 64: distal DC1

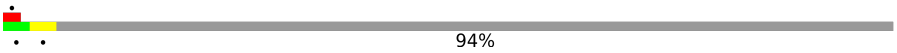
Chain 5C:

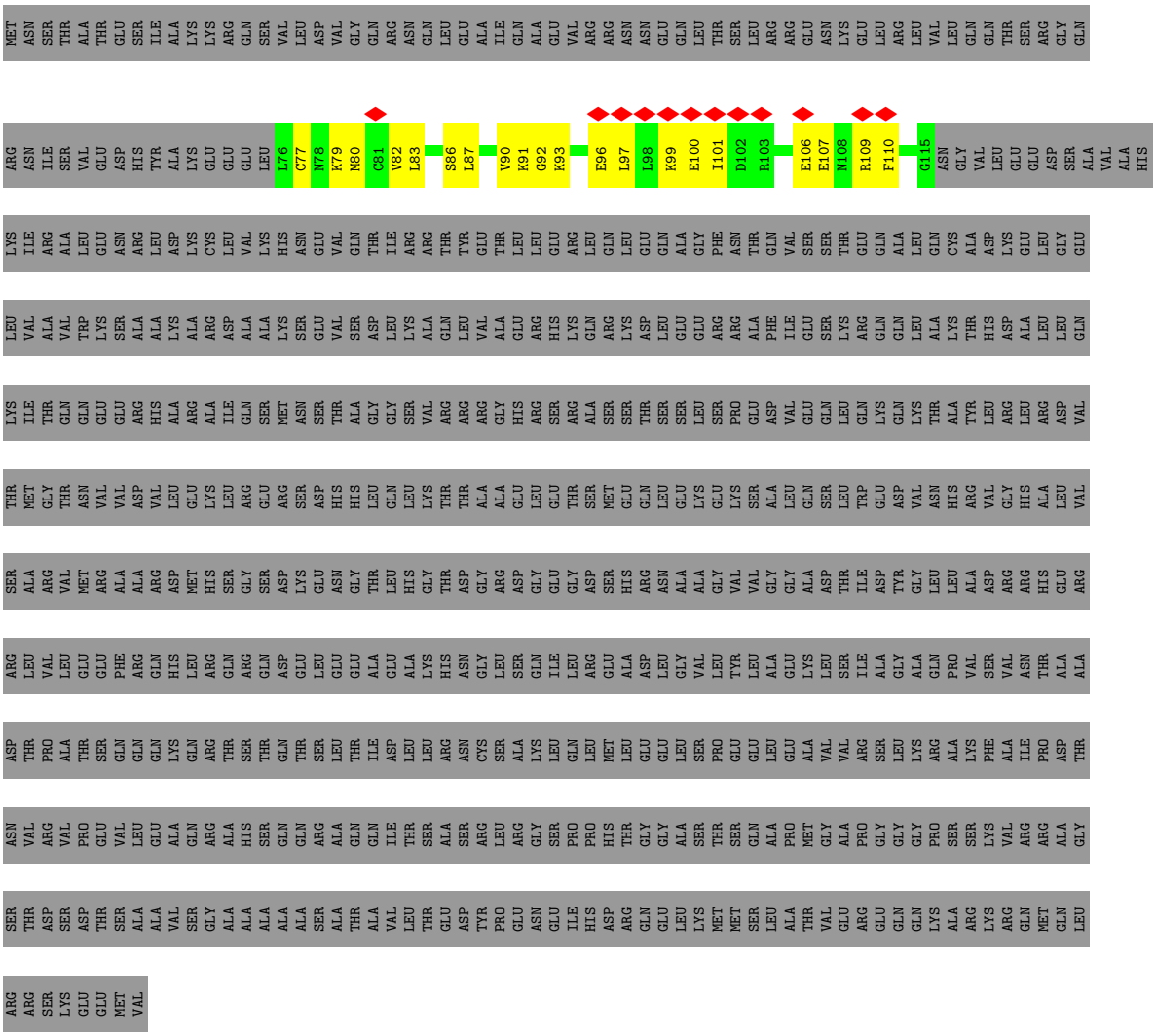




• Molecule 64: distal DC1

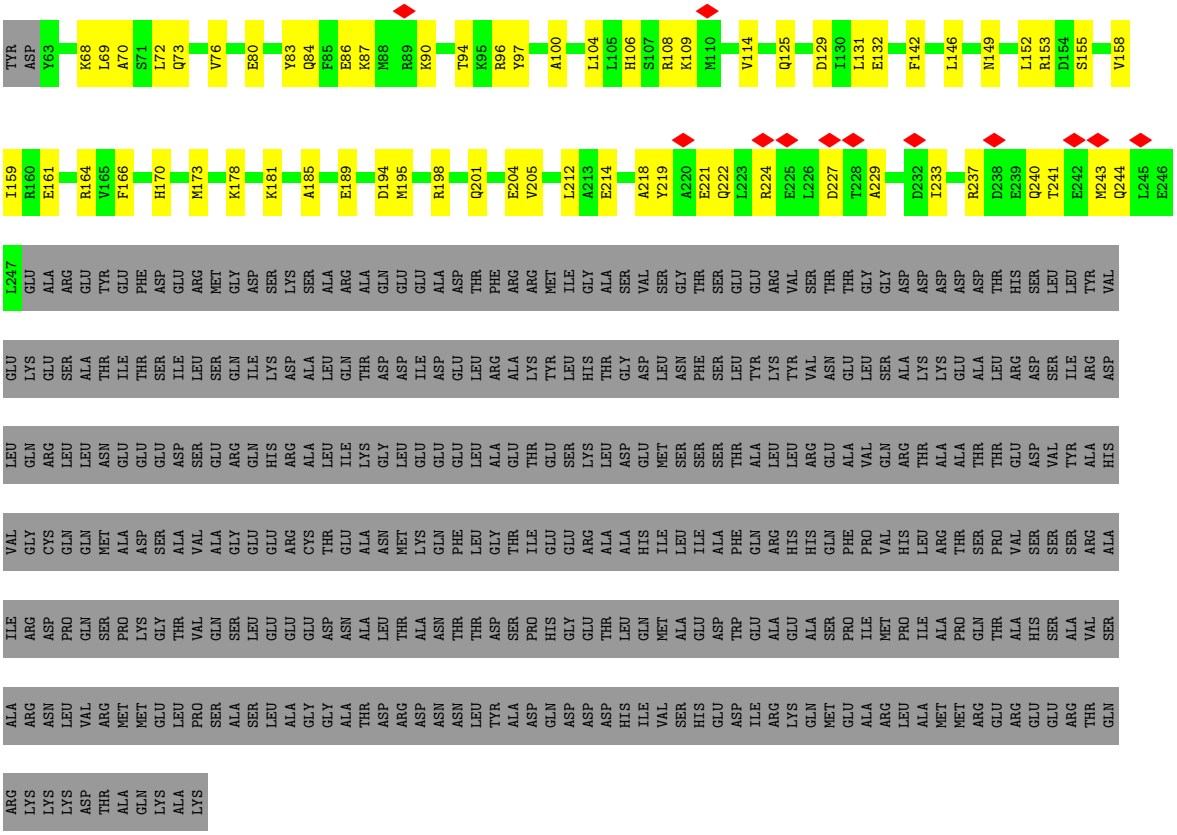
Chain 5D:





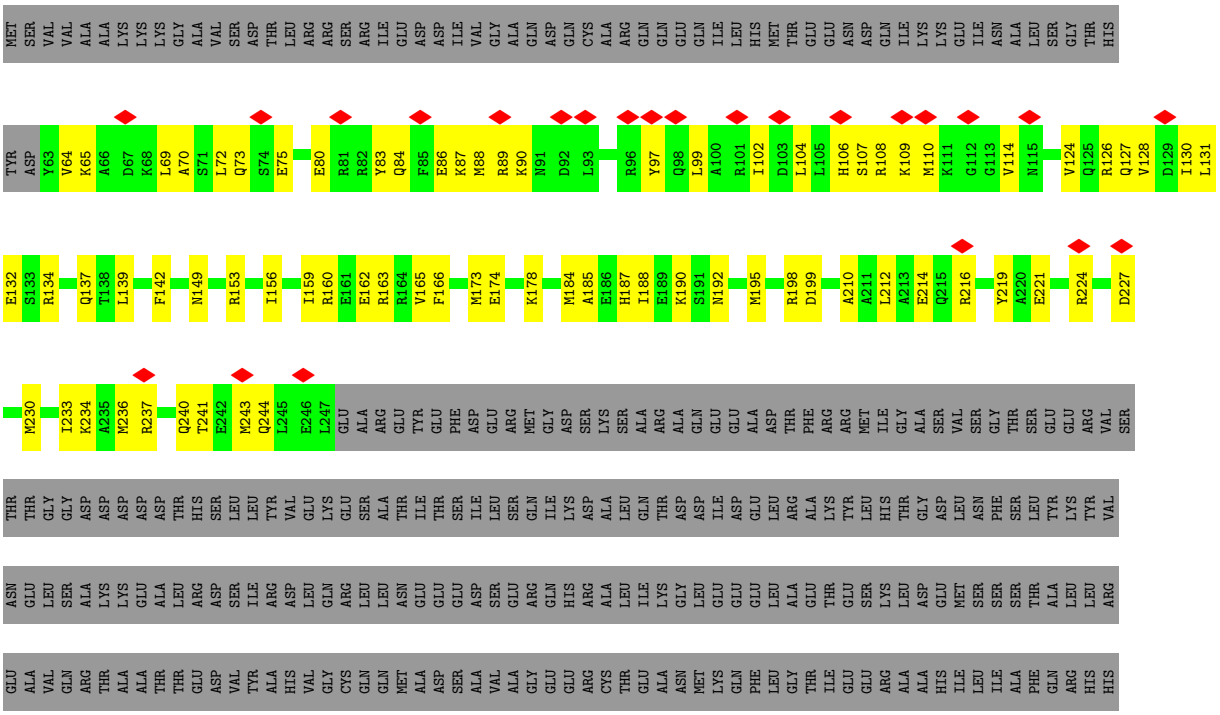
• Molecule 65: distal DC2

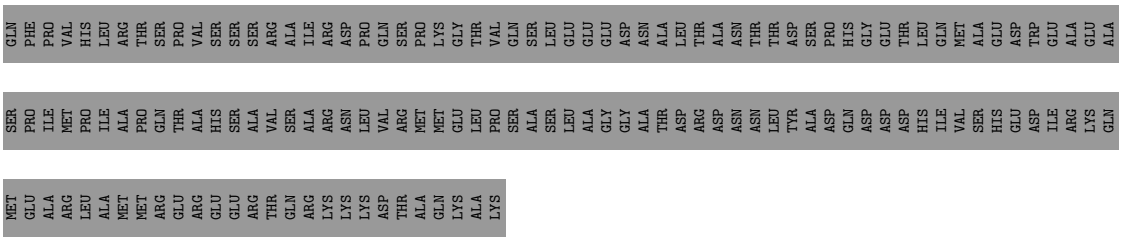
Chain 5G:



• Molecule 65: distal DC2

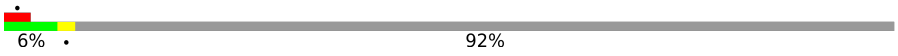
Chain 5H:

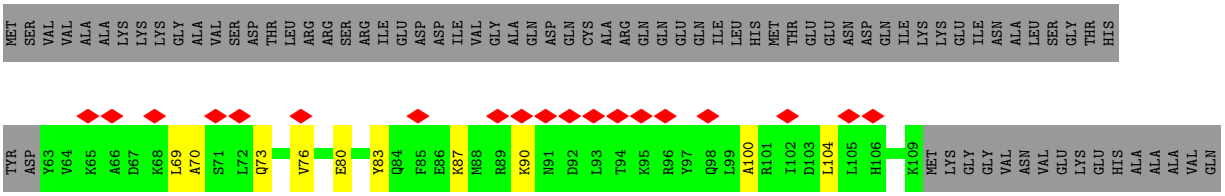




• Molecule 65: distal DC2

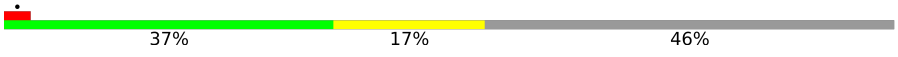
Chain 5I:

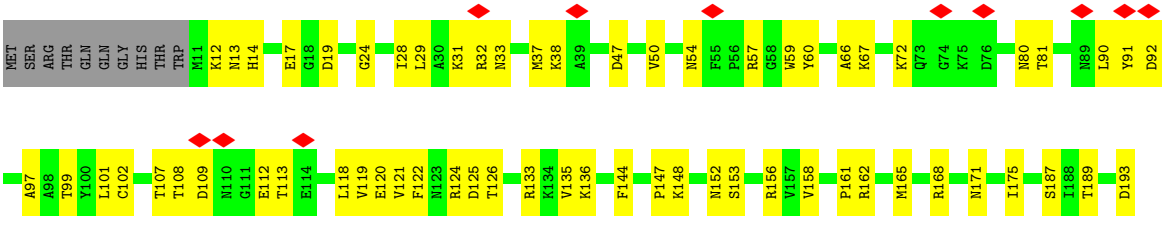


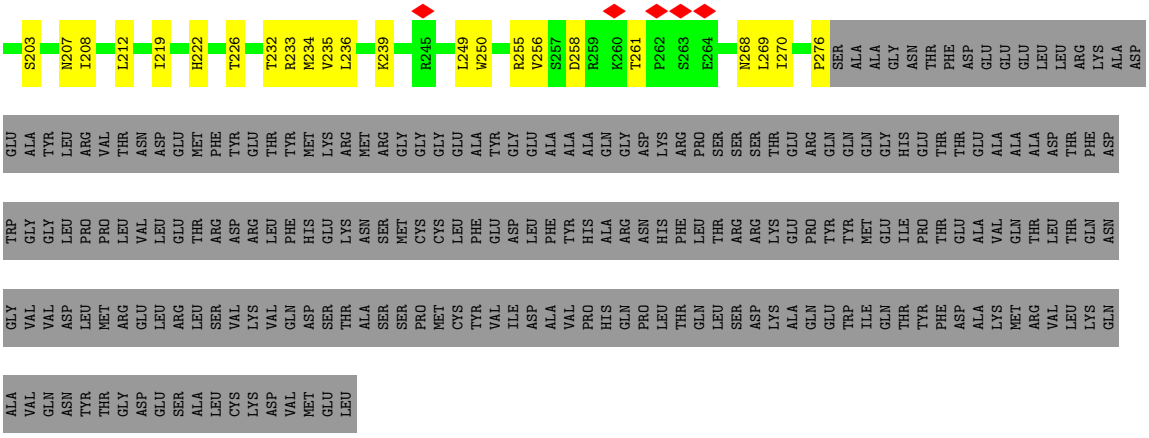


• Molecule 66: distal DC4

Chain 5K:

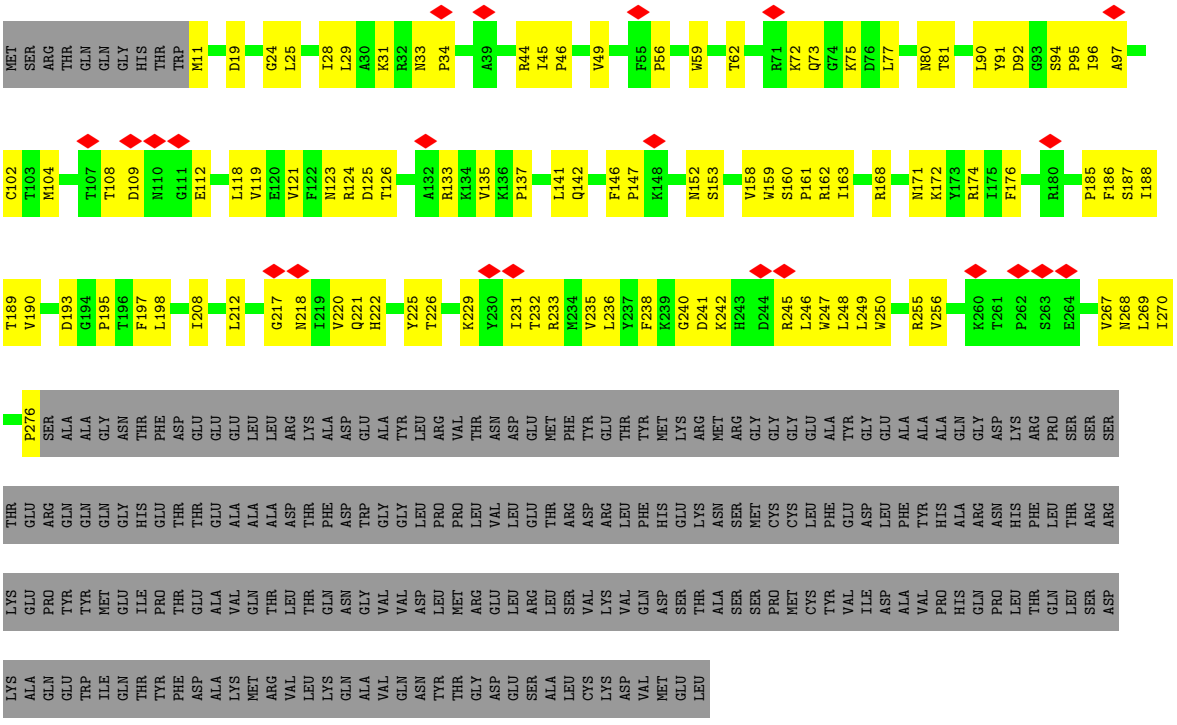






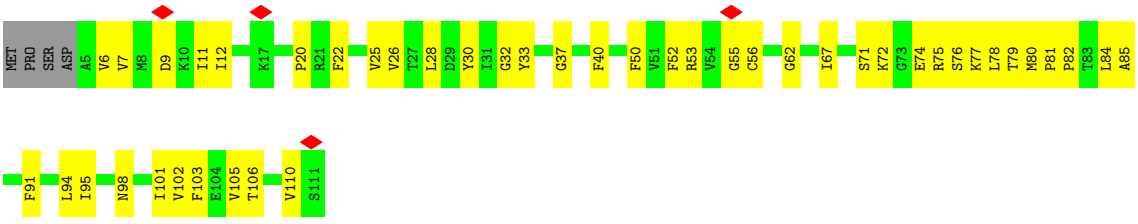
• Molecule 66: distal DC4

Chain 5L:



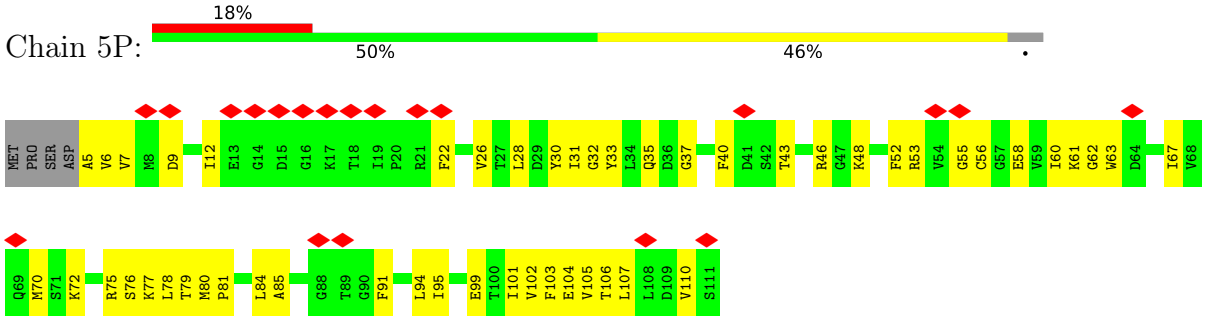
• Molecule 67: DC5

Chain 5O:



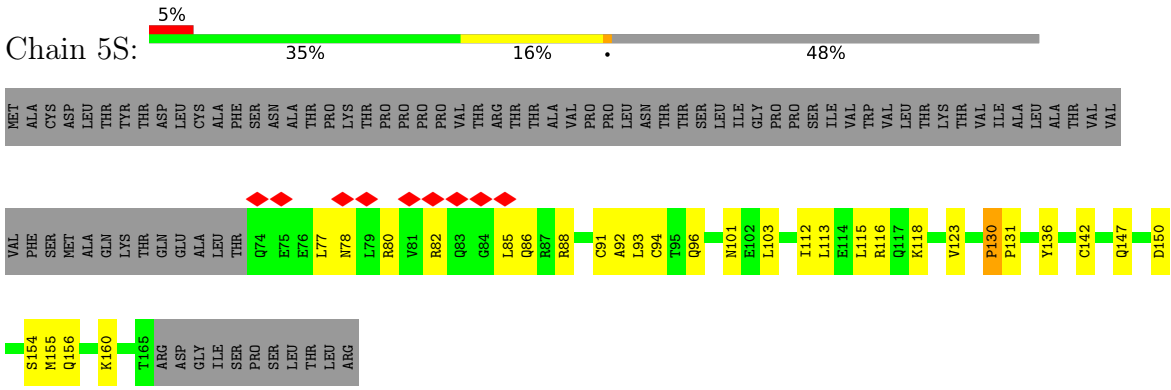
• Molecule 67: DC5

Chain 5P:



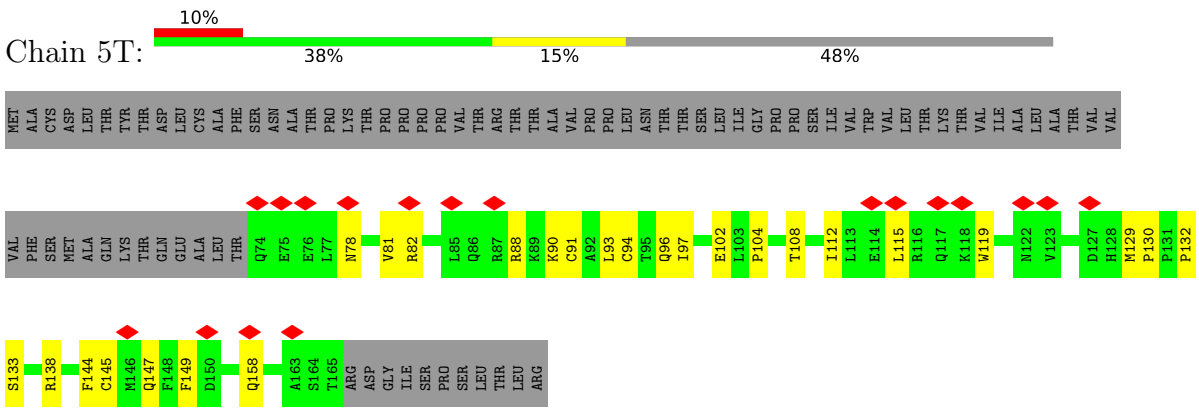
• Molecule 68: DC6

Chain 5S:



• Molecule 68: DC6

Chain 5T:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	533420	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	62.6	Depositor
Minimum defocus (nm)	500	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	1.841	Depositor
Minimum map value	-0.012	Depositor
Average map value	0.010	Depositor
Map value standard deviation	0.058	Depositor
Recommended contour level	0.0435	Depositor
Map size (Å)	680.96, 680.96, 680.96	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.33, 1.33, 1.33	Depositor

5 Model quality

5.1 Standard geometry

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	A	0.15	0/3432	0.36	0/4637
1	AB	0.15	0/3351	0.36	0/4528
1	AD	0.15	0/3432	0.35	0/4637
1	AF	0.14	0/3432	0.34	0/4637
1	AH	0.19	0/3432	0.40	2/4637 (0.0%)
1	AJ	0.15	0/3432	0.35	0/4637
1	AL	0.14	0/3432	0.37	0/4637
1	AN	0.15	0/3351	0.35	0/4528
1	B	0.15	0/3334	0.34	0/4502
1	BB	0.14	0/3432	0.34	0/4637
1	BD	0.15	0/3440	0.38	0/4647
1	BF	0.14	0/3432	0.35	1/4637 (0.0%)
1	BH	0.29	0/3432	0.53	1/4637 (0.0%)
1	BJ	0.15	0/3432	0.37	0/4637
1	BL	0.15	0/3432	0.38	0/4637
1	BN	0.15	0/3432	0.40	0/4637
1	CA	0.16	0/3387	0.39	0/4575
1	CC	0.16	0/3440	0.39	0/4647
1	CE	0.15	0/3440	0.37	0/4647
1	CG	0.13	0/3440	0.36	0/4647
1	CI	0.14	0/3432	0.35	0/4637
1	CK	0.14	0/3432	0.34	0/4637
1	CM	0.17	0/3432	0.46	1/4637 (0.0%)
1	DA	0.15	0/3432	0.35	0/4637
1	DC	0.15	0/3432	0.36	0/4637
1	DE	0.15	0/3432	0.38	0/4637
1	DG	0.15	0/3432	0.37	0/4637
1	DI	0.14	0/3432	0.33	0/4637
1	DK	0.13	0/3432	0.34	0/4637
1	DM	0.17	0/3432	0.41	0/4637
1	E	0.16	0/3440	0.38	0/4647
1	EB	0.15	0/3440	0.37	0/4647

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	ED	0.16	0/3440	0.38	0/4647
1	EF	0.14	0/3440	0.36	0/4647
1	EH	0.14	0/3440	0.34	0/4647
1	EJ	0.15	0/3440	0.36	0/4647
1	EL	0.18	0/3432	0.44	0/4637
1	F	0.17	0/3432	0.40	0/4637
1	FB	0.16	0/3432	0.35	0/4637
1	FD	0.16	0/3432	0.37	0/4637
1	FF	0.16	0/3432	0.37	0/4637
1	FH	0.15	0/3432	0.36	0/4637
1	FJ	0.14	0/3430	0.36	0/4633
1	FL	0.17	0/3413	0.40	0/4610
1	G	0.13	0/3432	0.38	0/4637
1	GB	0.14	0/3432	0.35	0/4637
1	GD	0.16	0/3413	0.39	0/4610
1	GF	0.16	0/3432	0.41	0/4637
1	GH	0.15	0/3432	0.37	0/4637
1	GJ	0.16	0/3405	0.40	0/4599
1	GL	0.14	0/3432	0.39	0/4637
1	H	0.15	0/3432	0.37	0/4637
1	HB	0.17	0/3432	0.41	1/4637 (0.0%)
1	HD	0.16	0/3432	0.39	0/4637
1	HF	0.15	0/3432	0.36	0/4637
1	HH	0.15	0/3432	0.36	1/4637 (0.0%)
1	HJ	0.14	0/3432	0.36	0/4637
1	HL	0.15	0/3432	0.38	0/4637
1	I	0.16	0/3440	0.40	0/4647
1	IB	0.15	0/3432	0.37	0/4637
1	ID	0.14	0/3432	0.36	1/4637 (0.0%)
1	IF	0.14	0/3432	0.37	0/4637
1	IH	0.14	0/3432	0.34	0/4637
1	IJ	0.15	0/3432	0.36	0/4637
1	IL	0.18	0/3432	0.45	0/4637
1	JA	0.15	0/3432	0.36	0/4637
1	JC	0.15	0/3432	0.38	0/4637
1	JE	0.15	0/3432	0.40	0/4637
1	JG	0.15	0/3432	0.37	0/4637
1	JI	0.14	0/3432	0.34	0/4637
1	JK	0.17	0/3432	0.44	0/4637
1	JM	0.15	0/3413	0.37	0/4610
1	KA	0.15	0/3440	0.34	0/4647
1	KC	0.14	0/3432	0.36	0/4637
1	KE	0.15	0/3432	0.35	0/4637

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	KG	0.14	0/3432	0.34	0/4637
1	KI	0.14	0/3432	0.33	0/4637
1	KK	0.15	0/3432	0.40	0/4637
1	KM	0.14	0/3432	0.37	0/4637
1	LA	0.15	0/3432	0.38	0/4637
1	LC	0.14	0/3432	0.36	1/4637 (0.0%)
1	LE	0.16	0/3432	0.39	0/4637
1	LG	0.16	0/3432	0.39	0/4637
1	LI	0.14	0/3432	0.35	0/4637
1	LK	0.15	0/3432	0.36	0/4637
1	LM	0.17	0/3432	0.42	0/4637
1	LO	0.16	0/3432	0.40	0/4637
1	M	0.15	0/3432	0.35	0/4637
1	MB	0.15	0/3432	0.37	0/4637
1	MD	0.15	0/3432	0.36	0/4637
1	MF	0.16	0/3432	0.40	0/4637
1	MH	0.15	0/3432	0.37	0/4637
1	MJ	0.16	0/3432	0.43	0/4637
1	ML	0.15	0/3432	0.35	0/4637
1	MN	0.15	0/3432	0.36	0/4637
1	N	0.16	0/3358	0.41	0/4538
1	NB	0.14	0/3358	0.36	0/4538
1	ND	0.16	0/3418	0.40	0/4617
1	NF	0.14	0/3418	0.36	0/4617
1	NH	0.18	0/3413	0.39	1/4610 (0.0%)
1	NJ	0.14	0/3432	0.35	0/4637
1	NL	0.16	0/3413	0.42	0/4610
1	O	0.16	0/3413	0.40	0/4610
1	OB	0.15	0/3405	0.37	0/4599
1	OD	0.13	0/3413	0.34	0/4610
1	OF	0.15	0/3413	0.38	0/4610
1	OH	0.15	0/3413	0.37	0/4610
1	OJ	0.16	0/3413	0.39	0/4610
1	OL	0.18	0/3413	0.43	0/4610
1	P	0.16	0/3184	0.40	1/4303 (0.0%)
1	PB	0.15	0/3432	0.37	0/4637
1	PD	0.16	0/3432	0.39	0/4637
1	PF	0.15	0/3432	0.36	0/4637
1	PH	0.16	0/3412	0.39	0/4608
1	PJ	0.15	0/3432	0.34	0/4637
1	PL	0.17	0/3432	0.40	1/4637 (0.0%)
1	QA	0.16	0/3418	0.39	0/4617
1	QC	0.15	0/3418	0.34	0/4617

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	QE	0.16	0/3413	0.36	0/4610
1	QG	0.15	0/3418	0.34	0/4617
1	QI	0.15	0/3418	0.36	0/4617
1	QK	0.16	0/3418	0.39	0/4617
1	RA	0.16	0/3413	0.38	0/4610
1	RC	0.15	0/3432	0.36	0/4637
1	RE	0.15	0/3413	0.33	0/4610
1	RG	0.15	0/3413	0.34	0/4610
1	RI	0.14	0/3411	0.34	0/4606
1	RK	0.15	0/3425	0.38	0/4627
1	S	0.14	0/3405	0.37	0/4599
1	SB	0.16	0/3405	0.38	1/4599 (0.0%)
1	SD	0.16	0/3405	0.36	0/4599
1	SF	0.15	0/3405	0.36	0/4599
1	SH	0.15	0/3425	0.37	0/4627
1	SJ	0.15	0/3418	0.38	0/4617
1	T	0.16	0/3418	0.38	0/4617
1	TB	0.17	0/3425	0.39	0/4627
1	TD	0.17	0/3413	0.41	0/4610
1	TF	0.16	0/3418	0.38	0/4617
1	TH	0.14	0/3413	0.37	0/4610
1	TJ	0.16	0/3432	0.39	0/4637
1	TL	0.17	0/3418	0.44	0/4617
1	U	0.15	0/3405	0.35	0/4599
1	UB	0.14	0/3405	0.34	0/4599
1	UD	0.14	0/3405	0.35	0/4599
1	UF	0.15	0/3405	0.36	0/4599
1	UH	0.14	0/3405	0.36	0/4599
1	UJ	0.15	0/3418	0.36	0/4617
1	UL	0.16	0/3413	0.39	0/4610
1	V	0.17	0/3425	0.39	1/4627 (0.0%)
1	VB	0.14	0/3413	0.36	0/4610
1	VD	0.15	0/3418	0.38	0/4617
1	VF	0.14	0/3425	0.34	0/4627
1	VH	0.15	0/3405	0.36	0/4599
1	VJ	0.16	0/3432	0.38	0/4637
1	VL	0.14	0/3432	0.34	0/4637
1	W	0.15	0/3405	0.35	0/4599
1	WB	0.14	0/3405	0.36	0/4599
1	WD	0.14	0/3405	0.34	0/4599
1	WF	0.15	0/3418	0.36	0/4617
1	WH	0.14	0/3405	0.35	0/4599
1	WJ	0.14	0/3405	0.35	0/4599

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	WL	0.14	0/3413	0.35	0/4610
2	AA	0.14	0/3400	0.35	0/4614
2	AC	0.15	0/3424	0.37	0/4647
2	AE	0.14	0/3466	0.36	0/4704
2	AG	0.14	0/3423	0.38	1/4644 (0.0%)
2	AI	0.14	0/3466	0.37	0/4704
2	AK	0.15	0/3466	0.37	0/4704
2	AM	0.15	0/3400	0.37	0/4614
2	BA	0.13	0/3392	0.33	0/4602
2	BC	0.15	0/3400	0.40	0/4614
2	BE	0.13	0/3392	0.34	0/4602
2	BG	0.15	0/3400	0.38	0/4614
2	BI	0.17	0/3466	0.41	1/4704 (0.0%)
2	BK	0.14	0/3392	0.35	0/4602
2	BM	0.15	0/3400	0.37	0/4614
2	C	0.16	0/3466	0.35	0/4704
2	CB	0.15	0/3466	0.36	1/4704 (0.0%)
2	CD	0.16	0/3466	0.39	1/4704 (0.0%)
2	CF	0.12	0/3400	0.32	0/4614
2	CH	0.14	0/3466	0.37	0/4704
2	CJ	0.13	0/3466	0.33	0/4704
2	CL	0.16	0/3466	0.39	0/4704
2	D	0.15	0/3400	0.36	0/4614
2	DB	0.15	0/3400	0.34	0/4614
2	DD	0.15	0/3400	0.36	0/4614
2	DF	0.13	0/3408	0.33	0/4625
2	DH	0.14	0/3398	0.34	0/4610
2	DJ	0.13	0/3400	0.33	0/4614
2	DL	0.15	0/3400	0.38	0/4614
2	EA	0.15	0/3400	0.35	0/4614
2	EC	0.15	0/3466	0.35	0/4704
2	EE	0.13	0/3417	0.33	0/4637
2	EG	0.15	0/3422	0.36	0/4644
2	EI	0.14	0/3408	0.35	0/4625
2	EK	0.14	0/3408	0.36	0/4625
2	FA	0.15	0/3466	0.38	0/4704
2	FC	0.15	0/3431	0.39	0/4656
2	FE	0.16	0/3414	0.39	0/4633
2	FG	0.17	0/3408	0.37	0/4625
2	FI	0.14	0/3392	0.35	0/4602
2	FK	0.16	0/3408	0.41	1/4625 (0.0%)
2	GA	0.15	0/3400	0.37	0/4614
2	GC	0.14	0/3400	0.38	0/4614

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
2	GE	0.16	0/3408	0.36	0/4625
2	GG	0.14	0/3400	0.35	0/4614
2	GI	0.15	0/3400	0.37	0/4614
2	GK	0.15	0/3400	0.38	0/4614
2	HA	0.15	0/3400	0.40	0/4614
2	HC	0.13	0/3400	0.37	1/4614 (0.0%)
2	HE	0.15	0/3466	0.39	1/4704 (0.0%)
2	HG	0.15	0/3414	0.40	1/4633 (0.0%)
2	HI	0.15	0/3406	0.38	0/4621
2	HK	0.16	0/3414	0.39	0/4633
2	HM	0.16	0/3400	0.42	0/4614
2	IA	0.16	0/3400	0.39	0/4614
2	IC	0.15	0/3414	0.37	0/4633
2	IE	0.14	0/3466	0.37	0/4704
2	IG	0.13	0/3466	0.35	0/4704
2	II	0.14	0/3466	0.36	0/4704
2	IK	0.17	0/3400	0.40	0/4614
2	IM	0.15	0/3400	0.40	0/4614
2	J	0.18	0/3466	0.42	0/4704
2	JB	0.14	0/3466	0.37	0/4704
2	JD	0.15	0/3400	0.38	1/4614 (0.0%)
2	JF	0.15	0/3400	0.37	0/4614
2	JH	0.14	0/3413	0.36	0/4631
2	JJ	0.16	0/3414	0.37	1/4633 (0.0%)
2	JL	0.17	0/3414	0.40	0/4633
2	JN	0.17	0/3466	0.45	0/4704
2	K	0.16	0/3429	0.40	0/4652
2	KB	0.14	0/3466	0.36	0/4704
2	KD	0.14	0/3400	0.35	0/4614
2	KF	0.15	0/3466	0.37	2/4704 (0.0%)
2	KH	0.16	0/3406	0.38	0/4622
2	KJ	0.14	0/3417	0.36	1/4637 (0.0%)
2	KL	0.16	0/3466	0.39	0/4704
2	KN	0.15	0/3466	0.37	0/4704
2	L	0.14	0/3466	0.36	0/4704
2	LB	0.15	0/3417	0.37	0/4637
2	LD	0.15	0/3392	0.36	0/4603
2	LF	0.15	0/3466	0.38	1/4704 (0.0%)
2	LH	0.19	0/3466	0.41	0/4704
2	LJ	0.15	0/3466	0.38	0/4704
2	LL	0.16	0/3466	0.36	0/4704
2	LN	0.15	0/3417	0.37	0/4637
2	MA	0.14	0/3406	0.37	0/4622

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
2	MC	0.15	0/3451	0.36	0/4684
2	ME	0.15	0/3439	0.37	0/4666
2	MG	0.14	0/3466	0.37	0/4704
2	MI	0.14	0/3466	0.36	0/4704
2	MK	0.16	0/3466	0.40	0/4704
2	MM	0.16	0/3406	0.40	0/4622
2	NA	0.14	0/3466	0.37	0/4704
2	NC	0.14	0/3466	0.36	0/4704
2	NE	0.14	0/3466	0.36	0/4704
2	NG	0.14	0/3466	0.37	0/4704
2	NI	0.16	0/3466	0.39	1/4704 (0.0%)
2	NK	0.16	0/3466	0.41	0/4704
2	NM	0.16	0/3466	0.43	0/4704
2	OA	0.15	0/3414	0.38	0/4633
2	OC	0.14	0/3408	0.37	0/4625
2	OE	0.14	0/3408	0.36	0/4625
2	OG	0.16	0/3466	0.38	0/4704
2	OI	0.15	0/3400	0.38	0/4614
2	OK	0.16	0/3400	0.41	0/4614
2	OM	0.17	0/3423	0.40	0/4645
2	PA	0.15	0/3400	0.38	0/4614
2	PC	0.14	0/3408	0.35	0/4625
2	PE	0.16	0/3408	0.35	0/4625
2	PG	0.15	0/3466	0.37	0/4704
2	PI	0.16	0/3408	0.38	0/4625
2	PK	0.17	0/3414	0.37	0/4633
2	PM	0.18	0/3414	0.43	0/4633
2	Q	0.16	0/3466	0.39	0/4704
2	QB	0.16	0/3394	0.39	0/4606
2	QD	0.17	0/3400	0.42	1/4614 (0.0%)
2	QF	0.15	0/3400	0.36	0/4614
2	QH	0.16	0/3466	0.37	0/4704
2	QJ	0.16	0/3408	0.36	0/4625
2	QL	0.17	0/3414	0.45	0/4633
2	R	0.15	0/3466	0.38	0/4704
2	RB	0.17	0/3408	0.40	2/4625 (0.0%)
2	RD	0.17	0/3408	0.38	0/4625
2	RF	0.16	0/3408	0.36	0/4625
2	RH	0.17	0/3400	0.40	1/4614 (0.0%)
2	RJ	0.17	0/3400	0.40	1/4614 (0.0%)
2	RL	0.16	0/3406	0.39	0/4622
2	SA	0.15	0/3408	0.35	0/4625
2	SC	0.15	0/3406	0.38	0/4622

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
2	SE	0.15	0/3406	0.36	0/4622
2	SG	0.14	0/3408	0.32	0/4625
2	SI	0.15	0/3400	0.36	0/4614
2	SK	0.18	1/3414 (0.0%)	0.41	0/4633
2	TA	0.15	0/3400	0.35	0/4614
2	TC	0.16	0/3384	0.39	0/4592
2	TE	0.14	0/3400	0.34	0/4614
2	TG	0.14	0/3408	0.33	0/4625
2	TI	0.14	0/3400	0.33	0/4614
2	TK	0.15	0/3424	0.38	0/4647
2	UA	0.15	0/3400	0.37	0/4614
2	UC	0.14	0/3392	0.35	0/4603
2	UE	0.15	0/3400	0.39	0/4614
2	UG	0.16	0/3408	0.36	0/4625
2	UI	0.14	0/3400	0.35	0/4614
2	UK	0.15	0/3400	0.36	1/4614 (0.0%)
2	VA	0.15	0/3408	0.38	0/4625
2	VC	0.15	0/3408	0.38	0/4625
2	VE	0.14	0/3408	0.34	0/4625
2	VG	0.13	0/3408	0.34	0/4625
2	VI	0.13	0/3412	0.33	0/4629
2	VK	0.15	0/3400	0.34	0/4614
2	VM	0.16	0/3431	0.41	0/4656
2	WA	0.14	0/3466	0.35	0/4704
2	WC	0.14	0/3408	0.35	0/4625
2	WE	0.13	0/3466	0.34	0/4704
2	WG	0.15	0/3408	0.36	1/4625 (0.0%)
2	WI	0.15	0/3466	0.39	0/4704
2	WK	0.13	0/3408	0.34	0/4625
2	WM	0.14	0/3466	0.36	0/4704
3	X	0.13	0/1544	0.33	0/2083
3	XA	0.15	0/1544	0.37	1/2083 (0.0%)
3	XB	0.13	0/1544	0.35	0/2083
3	XC	0.13	0/1544	0.36	0/2083
3	XD	0.13	0/1544	0.36	0/2083
3	XE	0.15	0/1544	0.39	0/2083
3	XF	0.13	0/1544	0.37	0/2083
4	XM	0.14	0/2094	0.33	0/2833
4	XO	0.15	0/2102	0.32	0/2844
4	XQ	0.13	0/2102	0.34	0/2844
4	XR	0.22	0/2105	0.40	0/2847
5	XN	0.14	0/2172	0.34	0/2940
5	XP	0.15	0/2172	0.36	0/2940

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
6	0	0.15	0/2040	0.38	0/2754
6	0A	0.23	0/2040	0.43	0/2754
7	0C	0.15	0/955	0.39	0/1293
7	0D	0.16	0/2785	0.43	1/3777 (0.0%)
8	0F	0.12	0/1449	0.34	1/1930 (0.1%)
8	0G	0.17	0/2966	0.40	0/3932
8	0H	0.16	0/230	0.48	0/307
8	0I	0.17	0/2384	0.44	0/3167
8	0J	0.17	0/1910	0.45	0/2530
9	0L	0.12	0/4845	0.35	0/6569
9	0M	0.12	0/4845	0.37	0/6569
9	0N	0.13	0/4845	0.39	0/6569
9	0O	0.17	0/2401	0.45	0/3253
10	0R	0.17	0/2646	0.45	0/3521
10	0S	0.18	0/1888	0.50	0/2513
11	0U	0.13	0/2621	0.35	0/3555
12	0W	0.12	0/2645	0.33	0/3600
13	0Y	0.12	0/1875	0.31	0/2538
13	0Z	0.13	0/1888	0.34	0/2554
13	0a	0.10	0/430	0.33	0/584
14	0c	0.17	0/1965	0.39	1/2631 (0.0%)
14	0d	0.20	0/2190	0.44	0/2934
15	0f	0.14	0/1283	0.37	0/1737
15	0g	0.11	0/223	0.30	0/303
16	0k	0.14	0/5705	0.37	0/7710
16	0l	0.13	0/5141	0.33	1/6953 (0.0%)
17	0m	0.18	0/1164	0.50	0/1550
17	0n	0.25	0/3406	0.54	0/4525
17	0o	0.11	0/173	0.33	0/232
18	0p	0.16	0/915	0.38	0/1222
19	0r	0.18	0/2076	0.41	0/2806
20	0t	0.14	0/2117	0.38	0/2877
20	0u	0.14	0/1819	0.36	0/2476
21	0v	0.13	0/588	0.35	0/788
21	0w	0.16	0/3753	0.40	0/5006
21	0x	0.13	0/917	0.32	0/1228
22	0z	0.31	0/1177	0.53	0/1585
22	1w	0.14	0/1509	0.37	0/2035
22	1x	0.21	0/1714	0.44	0/2310
22	1y	0.20	0/733	0.43	0/989
23	1A	0.16	0/2310	0.41	0/3075
23	1B	0.18	0/1682	0.45	0/2236
23	1D	0.16	0/467	0.43	0/616

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
23	1E	0.16	0/3083	0.38	0/4112
23	1F	0.18	0/642	0.42	0/856
24	1H	0.12	0/4800	0.32	0/6491
24	1I	0.12	0/5391	0.33	0/7280
24	1J	0.12	0/5470	0.33	0/7387
24	1K	0.13	0/4799	0.33	0/6489
25	1O	0.12	0/5862	0.31	0/7901
26	1Q	0.13	0/5371	0.35	1/7261 (0.0%)
27	1S	0.14	0/5967	0.34	0/8066
27	1T	0.15	0/1822	0.41	0/2458
28	1U	0.14	0/969	0.33	0/1318
28	1V	0.13	0/378	0.34	0/508
28	1X	0.13	0/969	0.32	0/1318
28	1Y	0.14	0/1357	0.36	0/1833
28	1a	0.11	0/460	0.27	0/627
28	1b	0.45	0/1347	0.74	2/1826 (0.1%)
28	1c	0.15	0/268	0.41	0/361
28	1d	0.13	0/969	0.31	0/1318
28	1e	0.10	0/378	0.25	0/508
28	1g	0.14	0/969	0.36	0/1318
28	1h	0.25	0/1248	0.48	0/1685
28	4V	0.13	0/500	0.30	0/679
28	4W	0.34	0/1512	0.68	6/2048 (0.3%)
29	1j	0.12	0/936	0.29	0/1267
29	1k	0.15	0/826	0.37	0/1128
29	1l	0.10	0/936	0.32	0/1267
29	1m	0.14	0/433	0.38	0/591
30	1o	0.11	0/1059	0.32	0/1435
31	1q	0.14	0/1708	0.37	2/2297 (0.1%)
31	1r	0.14	0/875	0.31	0/1164
31	1s	0.15	0/1471	0.28	0/1978
31	1t	0.15	0/620	0.45	0/817
32	2B	0.16	0/2020	0.35	0/2728
32	2C	0.15	0/1852	0.38	1/2496 (0.0%)
33	2F	0.24	0/2316	0.46	0/3146
33	2G	0.23	0/2308	0.44	1/3135 (0.0%)
33	2H	0.24	0/2346	0.43	0/3188
33	2I	0.28	0/1986	0.45	0/2689
34	2L	0.14	0/1473	0.37	0/2003
35	2N	0.16	0/1143	0.33	0/1555
35	2O	0.14	0/1369	0.36	0/1856
36	2Q	0.14	0/2383	0.34	0/3232
37	2S	0.13	0/1845	0.36	0/2506

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
38	2U	0.13	0/1840	0.35	0/2491
38	2V	0.15	0/888	0.41	0/1202
39	2X	0.14	0/1809	0.32	0/2439
40	2Z	0.13	0/2305	0.36	0/3116
41	2b	0.22	0/1016	0.42	0/1358
41	2c	0.26	0/2107	0.46	0/2794
41	2e	0.25	0/2760	0.54	2/3672 (0.1%)
41	2f	0.38	0/458	0.68	1/611 (0.2%)
41	2h	0.21	0/1990	0.46	0/2642
41	2i	0.20	0/1311	0.41	0/1737
41	2k	0.29	0/1383	0.52	0/1846
41	2l	0.16	0/2245	0.37	0/2979
41	2n	0.17	0/365	0.53	0/489
41	2o	0.23	0/2472	0.49	0/3283
41	2p	0.35	0/428	0.74	0/569
42	2r	0.18	0/2528	0.36	0/3431
43	2t	0.13	0/1750	0.38	0/2372
44	2v	0.20	0/2308	0.46	1/3111 (0.0%)
44	2w	0.16	0/3370	0.40	0/4575
45	2y	0.12	0/2372	0.32	0/3216
45	2z	0.43	0/1465	0.66	2/1989 (0.1%)
46	3B	0.11	0/3375	0.31	0/4571
47	3D	0.21	0/3268	0.41	0/4423
48	3F	0.16	0/1269	0.43	0/1696
48	3G	0.13	0/741	0.38	0/989
48	3H	0.16	0/840	0.45	0/1121
48	3I	0.17	0/646	0.51	0/861
48	3L	0.12	0/250	0.33	0/331
48	3M	0.07	0/250	0.21	0/331
49	3P	0.15	0/2031	0.37	0/2750
49	3Q	0.16	0/3890	0.37	0/5277
50	3S	0.11	0/183	0.21	0/242
51	X1	0.16	0/310	0.30	0/422
52	3U	0.12	0/1100	0.32	0/1501
53	3W	0.12	0/1282	0.29	0/1717
53	3X	0.14	0/393	0.40	0/530
54	3Z	0.24	0/1431	0.41	0/1933
54	3a	0.12	0/734	0.34	0/998
54	4Y	0.08	0/125	0.22	0/170
55	3b	0.21	0/1139	0.44	0/1526
56	3d	0.16	0/1259	0.44	2/1692 (0.1%)
57	3f	0.13	0/1426	0.38	0/1897
57	3g	0.12	0/1426	0.32	0/1897

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
57	3h	0.10	0/1426	0.27	0/1897
57	3i	0.22	0/1426	0.66	1/1897 (0.1%)
58	3m	0.15	0/1229	0.38	0/1638
59	3o	0.14	0/473	0.49	0/642
59	3p	0.16	0/1195	0.40	0/1614
59	4O	0.26	0/1444	0.44	0/1951
59	4P	0.12	0/548	0.33	0/742
59	4a	0.14	0/1273	0.33	0/1719
59	4b	0.13	0/548	0.27	0/742
60	3r	0.23	0/1115	0.45	0/1497
60	3s	0.22	0/1115	0.46	0/1497
60	3t	0.32	0/541	0.60	0/726
61	3w	0.23	0/1410	0.40	0/1916
61	3x	0.30	0/1018	0.49	0/1381
62	4A	0.11	0/236	0.33	0/322
62	4B	0.28	0/1637	0.43	0/2225
63	4I	0.12	0/639	0.29	0/863
64	5B	0.11	0/1356	0.29	0/1811
64	5C	0.19	0/1356	0.51	0/1811
64	5D	0.29	0/321	0.70	0/425
65	5G	0.11	0/1552	0.29	0/2068
65	5H	0.17	0/1552	0.45	0/2068
65	5I	0.14	0/405	0.37	0/537
66	5K	0.11	0/2204	0.29	0/2980
66	5L	0.12	0/2204	0.35	0/2980
67	5O	0.13	0/826	0.32	0/1117
67	5P	0.14	0/826	0.38	0/1117
68	5S	0.27	1/762 (0.1%)	0.40	0/1022
68	5T	0.15	0/762	0.41	0/1022
All	All	0.16	2/1389933 (0.0%)	0.38	63/1880072 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	AB	0	1
1	BH	0	1
1	DE	0	1
1	EH	0	1
1	HB	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	HF	0	1
1	JK	0	1
1	SH	0	1
1	SJ	0	1
1	TF	0	1
1	W	0	1
2	FE	0	1
2	MG	0	1
2	QD	0	1
2	RF	0	1
2	WM	0	1
6	0A	0	1
8	0I	0	1
9	0O	0	1
17	0n	0	2
27	1S	0	1
28	4W	0	1
33	2H	0	1
41	2c	0	1
41	2f	0	2
41	2i	0	1
41	2k	0	1
41	2l	0	1
41	2o	0	1
44	2v	0	1
44	2w	0	1
59	4O	0	1
59	4P	0	1
60	3s	0	1
All	All	0	36

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
68	5S	130	PRO	CA-C	5.41	1.54	1.51
2	SK	47	ASP	CA-CB	5.33	1.61	1.53

All (63) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
45	2z	188	PRO	CA-N-CD	-11.78	95.51	112.00
2	RH	298	PRO	CA-N-CD	-11.21	96.30	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
28	4W	20	CYS	CB-CA-C	-9.71	90.00	110.31
1	HH	80	PRO	CA-N-CD	-8.96	99.45	112.00
2	HE	298	PRO	CA-N-CD	-8.75	99.75	112.00
28	4W	20	CYS	CA-CB-SG	-8.60	94.63	114.40
2	RB	298	PRO	CA-N-CD	-8.45	100.17	112.00
28	4W	21	ARG	N-CA-C	-7.97	102.67	111.36
2	RJ	175	PRO	CA-N-CD	-7.92	100.92	112.00
28	4W	30	CYS	CB-CA-C	7.66	125.26	110.17
1	PL	180	VAL	N-CA-C	-7.56	105.19	112.29
1	CM	261	PRO	CA-N-CD	-7.35	101.71	112.00
2	WG	298	PRO	CA-N-CD	-7.32	101.75	112.00
45	2z	188	PRO	N-CD-CG	-7.02	92.67	103.20
2	NI	326	LYS	CG-CD-CE	-6.84	95.57	111.30
2	AG	326	LYS	CB-CG-CD	-6.53	96.29	111.30
2	QD	182	VAL	N-CA-C	-6.20	106.47	112.29
1	V	324	LYS	CD-CE-NZ	-6.00	92.70	111.90
14	0c	46	THR	CB-CA-C	-5.93	109.72	116.54
44	2v	241	ARG	N-CA-CB	-5.86	107.49	114.17
3	XA	122	PRO	CA-N-CD	-5.83	103.84	112.00
1	LC	180	VAL	N-CA-C	-5.80	106.75	111.91
2	FK	182	VAL	N-CA-C	-5.79	107.10	112.83
1	BF	175	VAL	N-CA-C	-5.79	105.75	111.88
2	JJ	326	LYS	CB-CG-CD	-5.70	98.20	111.30
26	1Q	559	GLY	N-CA-C	5.64	117.64	110.20
1	NH	20	PHE	CB-CA-C	-5.62	102.05	110.88
41	2f	449	TYR	N-CA-C	-5.62	105.15	111.28
2	HC	273	ALA	C-N-CD	-5.56	108.36	120.60
8	0F	54	GLY	CA-C-O	5.56	124.97	118.96
41	2e	168	LEU	CA-C-N	-5.56	111.42	121.14
41	2e	168	LEU	C-N-CA	-5.56	111.42	121.14
28	1b	27	LYS	N-CA-C	-5.55	105.12	113.89
1	P	213	ARG	CG-CD-NE	5.55	124.20	112.00
2	CD	298	PRO	CA-N-CD	-5.53	104.25	112.00
2	HG	182	VAL	N-CA-C	-5.49	107.40	112.83
7	0D	74	PRO	CA-N-CD	-5.48	104.33	112.00
31	1q	94	GLY	CA-C-N	5.40	131.85	121.54
31	1q	94	GLY	C-N-CA	5.40	131.85	121.54
2	UK	298	PRO	CA-N-CD	-5.38	104.46	112.00
28	4W	20	CYS	N-CA-CB	-5.34	101.52	110.39
32	2C	222	PRO	CA-N-CD	-5.34	104.52	112.00
2	KF	298	PRO	CA-N-CD	-5.32	104.56	112.00
1	BH	99	ASN	N-CA-C	-5.31	105.45	112.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AH	19	LYS	CA-CB-CG	-5.30	103.49	114.10
33	2G	81	ILE	N-CA-C	-5.28	108.69	113.71
2	LF	114	ILE	N-CA-C	-5.28	108.70	113.71
2	KF	221	ARG	CB-CG-CD	-5.27	99.17	111.30
2	BI	182	VAL	N-CA-C	-5.23	107.37	112.29
16	0l	452	PRO	CA-N-CD	-5.22	104.69	112.00
1	SB	175	VAL	N-CA-C	-5.19	107.29	111.91
2	CB	326	LYS	CA-CB-CG	-5.18	103.74	114.10
2	JD	182	VAL	N-CA-C	-5.18	107.42	112.29
28	1b	32	GLY	CA-C-O	-5.15	117.86	121.88
1	AH	19	LYS	CG-CD-CE	-5.11	99.54	111.30
1	ID	175	VAL	N-CA-C	-5.11	107.36	111.91
1	HB	180	VAL	N-CA-C	-5.10	106.47	111.77
2	KJ	182	VAL	N-CA-C	-5.09	107.51	112.29
56	3d	185	MET	CA-C-N	-5.04	111.74	121.58
56	3d	185	MET	C-N-CA	-5.04	111.74	121.58
28	4W	30	CYS	N-CA-CB	-5.04	101.40	110.37
57	3i	99	MET	CA-CB-CG	5.01	124.11	114.10
2	RB	298	PRO	N-CD-CG	-5.00	95.69	103.20

There are no chirality outliers.

All (36) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
6	0A	160	ALA	Peptide
8	0I	99	ARG	Peptide
9	0O	74	ARG	Peptide
17	0n	26	ARG	Sidechain
17	0n	37	ARG	Sidechain
27	1S	281	LYS	Peptide
33	2H	218	ARG	Sidechain
41	2c	447	ARG	Sidechain
41	2f	447	ARG	Sidechain
41	2f	450	ARG	Sidechain
41	2i	447	ARG	Sidechain
41	2k	315	ARG	Sidechain
41	2l	447	ARG	Sidechain
41	2o	447	ARG	Sidechain
44	2v	240	SER	Peptide
44	2w	218	ARG	Sidechain
60	3s	46	ARG	Sidechain
59	4O	174	ARG	Sidechain

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Mol	Chain	Res	Type	Group
59	4P	1	MET	Peptide
28	4W	21	ARG	Sidechain
1	AB	267	MET	Peptide
1	BH	77	ARG	Sidechain
1	DE	271	ALA	Peptide
1	EH	271	ALA	Peptide
2	FE	338	LYS	Peptide
1	HB	2	ARG	Sidechain
1	HF	267	MET	Peptide
1	JK	200	MET	Peptide
2	MG	164	LYS	Peptide
2	QD	326	LYS	Peptide
2	RF	390	ARG	Sidechain
1	SH	200	MET	Peptide
1	SJ	271	ALA	Peptide
1	TF	200	MET	Peptide
1	W	267	MET	Peptide
2	WM	301	MET	Peptide

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	3362	0	3235	147	0
1	AB	3283	0	3160	140	0
1	AD	3362	0	3233	136	0
1	AF	3362	0	3235	148	0
1	AH	3362	0	3235	151	0
1	AJ	3362	0	3235	137	0
1	AL	3362	0	3235	133	0
1	AN	3283	0	3160	126	0
1	B	3270	0	3155	125	0
1	BB	3362	0	3235	139	0
1	BD	3370	0	3247	113	0
1	BF	3362	0	3235	138	0
1	BH	3362	0	3235	156	0
1	BJ	3362	0	3235	142	0
1	BL	3362	0	3235	131	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	BN	3362	0	3235	113	0
1	CA	3319	0	3200	143	0
1	CC	3370	0	3246	111	0
1	CE	3370	0	3245	148	0
1	CG	3370	0	3247	105	0
1	CI	3362	0	3235	127	0
1	CK	3362	0	3234	139	0
1	CM	3362	0	3235	136	0
1	DA	3362	0	3235	105	0
1	DC	3362	0	3235	116	0
1	DE	3362	0	3233	119	0
1	DG	3362	0	3235	121	0
1	DI	3362	0	3235	105	0
1	DK	3362	0	3235	117	0
1	DM	3362	0	3235	147	0
1	E	3370	0	3245	129	0
1	EB	3370	0	3247	139	0
1	ED	3370	0	3245	114	0
1	EF	3370	0	3247	126	0
1	EH	3370	0	3247	132	0
1	EJ	3370	0	3245	125	0
1	EL	3362	0	3233	145	0
1	F	3362	0	3235	145	0
1	FB	3362	0	3235	128	0
1	FD	3362	0	3235	138	0
1	FF	3362	0	3235	142	0
1	FH	3362	0	3235	132	0
1	FJ	3361	0	3230	126	0
1	FL	3343	0	3214	133	0
1	G	3362	0	3233	124	0
1	GB	3362	0	3235	142	0
1	GD	3343	0	3213	158	0
1	GF	3362	0	3235	149	0
1	GH	3362	0	3235	137	0
1	GJ	3335	0	3210	143	0
1	GL	3362	0	3235	132	0
1	H	3362	0	3235	139	0
1	HB	3362	0	3234	147	0
1	HD	3362	0	3235	146	0
1	HF	3362	0	3235	129	0
1	HH	3362	0	3235	127	0
1	HJ	3362	0	3235	126	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	HL	3362	0	3235	165	0
1	I	3370	0	3247	170	0
1	IB	3362	0	3235	121	0
1	ID	3362	0	3235	137	0
1	IF	3362	0	3235	146	0
1	IH	3362	0	3235	118	0
1	IJ	3362	0	3235	127	0
1	IL	3362	0	3235	174	0
1	JA	3362	0	3235	141	0
1	JC	3362	0	3235	148	0
1	JE	3362	0	3235	132	0
1	JG	3362	0	3235	133	0
1	JI	3362	0	3235	117	0
1	JK	3362	0	3234	176	0
1	JM	3343	0	3214	139	0
1	KA	3370	0	3247	119	0
1	KC	3362	0	3235	128	0
1	KE	3362	0	3235	145	0
1	KG	3362	0	3234	120	0
1	KI	3362	0	3235	110	0
1	KK	3362	0	3235	156	0
1	KM	3362	0	3235	142	0
1	LA	3362	0	3235	142	0
1	LC	3362	0	3235	135	0
1	LE	3362	0	3235	162	0
1	LG	3362	0	3235	176	0
1	LI	3362	0	3235	147	0
1	LK	3362	0	3235	179	0
1	LM	3362	0	3235	154	0
1	LO	3362	0	3235	162	0
1	M	3362	0	3235	122	0
1	MB	3362	0	3235	149	0
1	MD	3362	0	3235	174	0
1	MF	3362	0	3235	164	0
1	MH	3362	0	3235	130	0
1	MJ	3362	0	3234	151	0
1	ML	3362	0	3235	124	0
1	MN	3362	0	3235	137	0
1	N	3290	0	3167	155	0
1	NB	3290	0	3166	128	0
1	ND	3348	0	3219	138	0
1	NF	3348	0	3217	137	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	NH	3343	0	3214	145	0
1	NJ	3362	0	3235	117	0
1	NL	3343	0	3214	155	0
1	O	3343	0	3212	162	0
1	OB	3335	0	3210	151	0
1	OD	3343	0	3212	137	0
1	OF	3343	0	3214	129	0
1	OH	3343	0	3214	128	0
1	OJ	3343	0	3214	140	0
1	OL	3343	0	3214	195	0
1	P	3123	0	3016	130	0
1	PB	3362	0	3235	118	0
1	PD	3362	0	3235	138	0
1	PF	3362	0	3235	124	0
1	PH	3342	0	3212	138	0
1	PJ	3362	0	3235	117	0
1	PL	3362	0	3235	170	0
1	QA	3348	0	3219	156	0
1	QC	3348	0	3217	128	0
1	QE	3343	0	3214	116	0
1	QG	3348	0	3219	119	0
1	QI	3348	0	3217	120	0
1	QK	3348	0	3219	153	0
1	RA	3343	0	3214	131	0
1	RC	3362	0	3234	123	0
1	RE	3343	0	3214	136	0
1	RG	3343	0	3214	122	0
1	RI	3342	0	3209	120	0
1	RK	3355	0	3226	129	0
1	S	3335	0	3210	112	0
1	SB	3335	0	3210	126	0
1	SD	3335	0	3210	128	0
1	SF	3335	0	3210	127	0
1	SH	3355	0	3226	119	0
1	SJ	3348	0	3218	146	0
1	T	3348	0	3218	158	0
1	TB	3355	0	3226	136	0
1	TD	3343	0	3214	146	0
1	TF	3348	0	3219	140	0
1	TH	3343	0	3214	143	0
1	TJ	3362	0	3235	118	0
1	TL	3348	0	3219	183	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	U	3335	0	3210	119	0
1	UB	3335	0	3210	116	0
1	UD	3335	0	3210	117	0
1	UF	3335	0	3210	142	0
1	UH	3335	0	3210	130	0
1	UJ	3348	0	3219	95	0
1	UL	3343	0	3214	128	0
1	V	3355	0	3226	131	0
1	VB	3343	0	3214	118	0
1	VD	3348	0	3219	119	0
1	VF	3355	0	3226	108	0
1	VH	3335	0	3208	114	0
1	VJ	3362	0	3235	120	0
1	VL	3362	0	3235	135	0
1	W	3335	0	3210	123	0
1	WB	3335	0	3210	124	0
1	WD	3335	0	3210	120	0
1	WF	3348	0	3219	119	0
1	WH	3335	0	3210	132	0
1	WJ	3335	0	3210	112	0
1	WL	3343	0	3214	127	0
2	AA	3329	0	3257	118	0
2	AC	3353	0	3276	133	0
2	AE	3394	0	3318	135	0
2	AG	3352	0	3279	133	0
2	AI	3394	0	3318	136	0
2	AK	3394	0	3318	133	0
2	AM	3329	0	3257	113	0
2	BA	3322	0	3250	130	0
2	BC	3329	0	3257	143	0
2	BE	3322	0	3250	119	0
2	BG	3329	0	3257	147	0
2	BI	3394	0	3318	148	0
2	BK	3322	0	3250	129	0
2	BM	3329	0	3257	121	0
2	C	3394	0	3318	127	0
2	CB	3394	0	3318	120	0
2	CD	3394	0	3318	159	0
2	CF	3329	0	3257	102	0
2	CH	3394	0	3318	130	0
2	CJ	3394	0	3318	127	0
2	CL	3394	0	3318	136	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	D	3329	0	3257	119	0
2	DB	3329	0	3257	118	0
2	DD	3329	0	3257	103	0
2	DF	3337	0	3261	115	0
2	DH	3328	0	3253	110	0
2	DJ	3329	0	3257	115	0
2	DL	3329	0	3257	126	0
2	EA	3329	0	3257	110	0
2	EC	3394	0	3318	113	0
2	EE	3346	0	3267	127	0
2	EG	3351	0	3270	133	0
2	EI	3337	0	3261	116	0
2	EK	3337	0	3261	116	0
2	FA	3394	0	3318	116	0
2	FC	3360	0	3276	118	0
2	FE	3343	0	3266	121	0
2	FG	3337	0	3261	137	0
2	FI	3322	0	3250	123	0
2	FK	3337	0	3261	126	0
2	GA	3329	0	3257	127	0
2	GC	3329	0	3257	144	0
2	GE	3337	0	3261	136	0
2	GG	3329	0	3257	108	0
2	GI	3329	0	3257	135	0
2	GK	3329	0	3257	136	0
2	HA	3329	0	3257	155	0
2	HC	3329	0	3257	137	0
2	HE	3394	0	3318	125	0
2	HG	3343	0	3266	116	0
2	HI	3336	0	3259	134	0
2	HK	3343	0	3266	129	0
2	HM	3329	0	3257	141	0
2	IA	3329	0	3257	141	0
2	IC	3343	0	3266	128	0
2	IE	3394	0	3318	137	0
2	IG	3394	0	3318	139	0
2	II	3394	0	3318	136	0
2	IK	3329	0	3257	143	0
2	IM	3329	0	3257	142	0
2	J	3394	0	3318	148	0
2	JB	3394	0	3318	135	0
2	JD	3329	0	3257	125	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	JF	3329	0	3257	135	0
2	JH	3342	0	3266	143	0
2	JJ	3343	0	3266	140	0
2	JL	3343	0	3266	151	0
2	JN	3394	0	3318	163	0
2	K	3358	0	3284	117	0
2	KB	3394	0	3318	131	0
2	KD	3329	0	3257	119	0
2	KF	3394	0	3318	134	0
2	KH	3335	0	3262	153	0
2	KJ	3346	0	3267	135	0
2	KL	3394	0	3318	146	0
2	KN	3394	0	3318	123	0
2	L	3394	0	3318	101	0
2	LB	3346	0	3267	142	0
2	LD	3322	0	3245	128	0
2	LF	3394	0	3318	138	0
2	LH	3394	0	3318	159	0
2	LJ	3394	0	3318	165	0
2	LL	3394	0	3318	133	0
2	LN	3346	0	3267	161	0
2	MA	3335	0	3262	129	0
2	MC	3379	0	3307	137	0
2	ME	3368	0	3287	150	0
2	MG	3394	0	3318	141	0
2	MI	3394	0	3318	138	0
2	MK	3394	0	3318	152	0
2	MM	3335	0	3262	138	0
2	NA	3394	0	3318	134	0
2	NC	3394	0	3318	137	0
2	NE	3394	0	3318	135	0
2	NG	3394	0	3318	121	0
2	NI	3394	0	3318	137	0
2	NK	3394	0	3318	135	0
2	NM	3394	0	3318	135	0
2	OA	3343	0	3265	161	0
2	OC	3337	0	3261	150	0
2	OE	3337	0	3261	136	0
2	OG	3394	0	3318	137	0
2	OI	3329	0	3257	118	0
2	OK	3329	0	3257	143	0
2	OM	3352	0	3271	205	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	PA	3329	0	3257	132	0
2	PC	3337	0	3261	113	0
2	PE	3337	0	3261	136	0
2	PG	3394	0	3318	149	0
2	PI	3337	0	3261	135	0
2	PK	3343	0	3266	133	0
2	PM	3343	0	3266	142	0
2	Q	3394	0	3318	137	0
2	QB	3323	0	3252	142	0
2	QD	3329	0	3257	146	0
2	QF	3329	0	3257	128	0
2	QH	3394	0	3318	143	0
2	QJ	3337	0	3261	139	0
2	QL	3343	0	3266	145	0
2	R	3394	0	3318	132	0
2	RB	3337	0	3261	135	0
2	RD	3337	0	3261	131	0
2	RF	3337	0	3261	135	0
2	RH	3329	0	3257	134	0
2	RJ	3329	0	3257	142	0
2	RL	3335	0	3262	139	0
2	SA	3337	0	3261	146	0
2	SC	3335	0	3262	122	0
2	SE	3335	0	3262	101	0
2	SG	3337	0	3261	117	0
2	SI	3329	0	3257	126	0
2	SK	3343	0	3266	164	0
2	TA	3329	0	3257	122	0
2	TC	3314	0	3241	135	0
2	TE	3329	0	3257	110	0
2	TG	3337	0	3261	121	0
2	TI	3329	0	3257	119	0
2	TK	3353	0	3276	160	0
2	UA	3329	0	3257	111	0
2	UC	3322	0	3245	126	0
2	UE	3329	0	3257	120	0
2	UG	3337	0	3260	127	0
2	UI	3329	0	3257	126	0
2	UK	3329	0	3257	141	0
2	VA	3337	0	3261	119	0
2	VC	3337	0	3261	126	0
2	VE	3337	0	3261	105	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	VG	3337	0	3260	123	0
2	VI	3342	0	3264	98	0
2	VK	3329	0	3257	127	0
2	VM	3360	0	3276	132	0
2	WA	3394	0	3318	132	0
2	WC	3337	0	3261	128	0
2	WE	3394	0	3318	116	0
2	WG	3337	0	3261	126	0
2	WI	3394	0	3318	113	0
2	WK	3337	0	3261	108	0
2	WM	3394	0	3318	121	0
3	X	1510	0	1518	34	0
3	XA	1510	0	1518	47	0
3	XB	1510	0	1518	58	0
3	XC	1510	0	1518	53	0
3	XD	1510	0	1518	61	0
3	XE	1510	0	1518	59	0
3	XF	1510	0	1518	48	0
4	XM	2045	0	2058	56	0
4	XO	2053	0	2062	66	0
4	XQ	2053	0	2062	71	0
4	XR	2056	0	2071	56	0
5	XN	2116	0	2114	72	0
5	XP	2116	0	2114	67	0
6	0	2004	0	2023	67	0
6	0A	2004	0	2023	80	0
7	0C	935	0	882	37	0
7	0D	2723	0	2608	123	0
8	0F	1439	0	1417	60	0
8	0G	2955	0	2995	84	0
8	0H	229	0	243	10	0
8	0I	2369	0	2363	68	0
8	0J	1906	0	1937	47	0
9	0L	4757	0	4698	140	0
9	0M	4757	0	4698	171	0
9	0N	4757	0	4698	187	0
9	0O	2357	0	2349	95	0
10	0R	2628	0	2629	101	0
10	0S	1874	0	1901	47	0
11	0U	2570	0	2542	83	0
12	0W	2595	0	2596	64	0
13	0Y	1836	0	1837	45	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
13	0Z	1849	0	1853	56	0
13	0a	422	0	422	12	0
14	0c	1929	0	1952	68	0
14	0d	2150	0	2177	89	0
15	0f	1257	0	1238	63	0
15	0g	218	0	207	10	0
16	0k	5599	0	5578	212	0
16	0l	5045	0	5007	170	0
17	0m	1155	0	1160	68	0
17	0n	3388	0	3431	126	0
17	0o	171	0	175	8	0
18	0p	906	0	895	45	0
19	0r	2033	0	1951	95	0
20	0t	2062	0	1965	66	0
20	0u	1769	0	1687	54	0
21	0v	582	0	554	18	0
21	0w	3715	0	3660	99	0
21	0x	906	0	903	30	0
22	0z	1160	0	1141	84	0
22	1w	1481	0	1429	68	0
22	1x	1680	0	1614	79	0
22	1y	722	0	706	38	0
23	1A	2286	0	2263	97	0
23	1B	1667	0	1640	72	0
23	1D	464	0	483	17	0
23	1E	3050	0	3010	142	0
23	1F	635	0	613	33	0
24	1H	4698	0	4581	136	0
24	1I	5276	0	5158	161	0
24	1J	5356	0	5242	149	0
24	1K	4697	0	4577	124	0
25	1O	5751	0	5661	144	0
26	1Q	5263	0	5177	162	0
27	1S	5834	0	5732	157	0
27	1T	1787	0	1767	66	0
28	1U	942	0	920	25	0
28	1V	371	0	355	18	0
28	1X	942	0	920	31	0
28	1Y	1325	0	1292	50	0
28	1a	446	0	425	34	0
28	1b	1313	0	1278	101	0
28	1c	263	0	253	13	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
28	1d	942	0	920	27	0
28	1e	371	0	355	7	0
28	1g	942	0	920	52	0
28	1h	1218	0	1189	78	0
28	4V	486	0	467	15	0
28	4W	1474	0	1422	55	0
29	1j	909	0	866	31	0
29	1k	801	0	745	29	0
29	1l	909	0	866	41	0
29	1m	420	0	397	16	0
30	1o	1035	0	1002	26	0
31	1q	1679	0	1626	60	0
31	1r	868	0	881	37	0
31	1s	1446	0	1394	40	0
31	1t	618	0	629	15	0
32	2B	1977	0	1960	71	0
32	2C	1814	0	1800	57	0
33	2F	2253	0	2212	60	0
33	2G	2245	0	2206	84	0
33	2H	2281	0	2234	71	0
33	2I	1937	0	1892	70	0
34	2L	1433	0	1355	46	0
35	2N	1103	0	1066	58	0
35	2O	1324	0	1231	90	0
36	2Q	2320	0	2242	55	0
37	2S	1800	0	1729	69	0
38	2U	1807	0	1780	93	0
38	2V	870	0	847	29	0
39	2X	1774	0	1712	48	0
40	2Z	2258	0	2230	78	0
41	2b	1006	0	1007	18	0
41	2c	2092	0	2064	59	0
41	2e	2735	0	2721	83	0
41	2f	454	0	446	11	0
41	2h	1978	0	1984	77	0
41	2i	1301	0	1270	36	0
41	2k	1369	0	1383	55	0
41	2l	2228	0	2214	53	0
41	2n	361	0	357	12	0
41	2o	2453	0	2421	83	0
41	2p	425	0	428	15	0
42	2r	2473	0	2429	63	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
43	2t	1713	0	1664	59	0
44	2v	2264	0	2195	104	0
44	2w	3291	0	3163	148	0
45	2y	2316	0	2162	79	0
45	2z	1435	0	1380	91	0
46	3B	3308	0	3248	92	0
47	3D	3212	0	3119	93	0
48	3F	1254	0	1303	32	0
48	3G	733	0	767	24	0
48	3H	832	0	874	19	0
48	3I	640	0	659	16	0
48	3L	247	0	249	7	0
48	3M	247	0	249	7	0
49	3P	2002	0	2032	90	0
49	3Q	3825	0	3796	150	0
50	3S	182	0	175	6	0
51	X1	304	0	280	17	0
52	3U	1074	0	1031	42	0
53	3W	1264	0	1264	48	0
53	3X	386	0	389	11	0
54	3Z	1405	0	1388	66	0
54	3a	712	0	647	34	0
54	4Y	122	0	102	3	0
55	3b	1126	0	1135	31	0
56	3d	1240	0	1234	37	0
57	3f	1408	0	1382	52	0
57	3g	1408	0	1382	42	0
57	3h	1408	0	1382	41	0
57	3i	1408	0	1382	76	0
58	3m	1216	0	1223	47	0
59	3o	459	0	445	12	0
59	3p	1159	0	1135	45	0
59	4O	1399	0	1368	58	0
59	4P	529	0	513	19	0
59	4a	1233	0	1197	54	0
59	4b	529	0	513	14	0
60	3r	1098	0	1069	56	0
60	3s	1098	0	1069	55	0
60	3t	533	0	524	26	0
61	3w	1362	0	1292	57	0
61	3x	987	0	951	80	0
62	4A	229	0	214	8	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
62	4B	1584	0	1493	70	0
63	4I	620	0	604	41	0
64	5B	1348	0	1390	45	0
64	5C	1348	0	1390	67	0
64	5D	321	0	332	27	0
65	5G	1541	0	1562	58	0
65	5H	1541	0	1562	76	0
65	5I	401	0	417	15	0
66	5K	2155	0	2155	62	0
66	5L	2155	0	2155	81	0
67	5O	809	0	824	35	0
67	5P	809	0	824	43	0
68	5S	749	0	757	25	0
68	5T	749	0	757	25	0
69	A	28	0	12	1	0
69	AB	28	0	12	3	0
69	AD	28	0	12	1	0
69	AF	28	0	12	3	0
69	AH	28	0	12	3	0
69	AJ	28	0	12	2	0
69	AL	28	0	12	2	0
69	AN	28	0	12	3	0
69	BB	28	0	12	1	0
69	BD	28	0	12	1	0
69	BF	28	0	12	0	0
69	BH	28	0	12	2	0
69	BJ	28	0	12	0	0
69	BL	28	0	12	1	0
69	BN	28	0	12	0	0
69	CA	28	0	12	2	0
69	CC	28	0	12	1	0
69	CE	28	0	12	2	0
69	CG	28	0	12	3	0
69	CI	28	0	12	1	0
69	CK	28	0	12	1	0
69	CM	28	0	12	3	0
69	DA	28	0	12	1	0
69	DC	28	0	12	3	0
69	DE	28	0	12	1	0
69	DG	28	0	12	2	0
69	DI	28	0	12	3	0
69	DK	28	0	12	4	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
69	DM	28	0	12	2	0
69	E	28	0	12	1	0
69	EB	28	0	12	2	0
69	ED	28	0	12	1	0
69	EF	28	0	12	1	0
69	EH	28	0	12	2	0
69	EJ	28	0	12	1	0
69	EL	28	0	12	3	0
69	F	28	0	12	1	0
69	FB	28	0	12	2	0
69	FD	28	0	12	1	0
69	FF	28	0	12	2	0
69	FH	28	0	12	1	0
69	FJ	28	0	12	0	0
69	FL	28	0	12	1	0
69	G	28	0	12	0	0
69	GB	28	0	12	3	0
69	GD	28	0	12	0	0
69	GF	28	0	12	4	0
69	GH	28	0	12	1	0
69	GJ	28	0	12	1	0
69	GL	28	0	12	1	0
69	H	28	0	12	1	0
69	HB	28	0	12	1	0
69	HD	28	0	12	2	0
69	HF	28	0	12	1	0
69	HH	28	0	12	3	0
69	HJ	28	0	12	2	0
69	HL	28	0	12	4	0
69	I	28	0	12	4	0
69	IB	28	0	12	2	0
69	ID	28	0	12	2	0
69	IF	28	0	12	0	0
69	IH	28	0	12	1	0
69	IJ	28	0	12	1	0
69	IL	28	0	12	1	0
69	JA	28	0	12	2	0
69	JC	28	0	12	2	0
69	JE	28	0	12	1	0
69	JG	28	0	12	1	0
69	JI	28	0	12	3	0
69	JK	28	0	12	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
69	JM	28	0	12	1	0
69	KA	28	0	12	1	0
69	KC	28	0	12	1	0
69	KE	28	0	12	2	0
69	KG	28	0	12	3	0
69	KI	28	0	12	2	0
69	KK	28	0	12	5	0
69	KM	28	0	12	1	0
69	LA	28	0	12	0	0
69	LC	28	0	12	3	0
69	LE	28	0	12	3	0
69	LG	28	0	12	2	0
69	LI	28	0	12	3	0
69	LK	28	0	12	1	0
69	LM	28	0	12	1	0
69	LO	28	0	12	3	0
69	M	28	0	12	2	0
69	MB	28	0	12	3	0
69	MD	28	0	12	2	0
69	MF	28	0	12	6	0
69	MH	28	0	12	0	0
69	MJ	28	0	12	3	0
69	ML	28	0	12	2	0
69	MN	28	0	12	2	0
69	N	28	0	12	3	0
69	NB	28	0	12	4	0
69	ND	28	0	12	3	0
69	NF	28	0	12	2	0
69	NH	28	0	12	1	0
69	NJ	28	0	12	2	0
69	NL	28	0	12	3	0
69	O	28	0	12	3	0
69	OB	28	0	12	5	0
69	OD	28	0	12	2	0
69	OF	28	0	12	1	0
69	OH	28	0	12	1	0
69	OJ	28	0	12	1	0
69	OL	28	0	12	2	0
69	P	28	0	12	7	0
69	PB	28	0	12	2	0
69	PD	28	0	12	1	0
69	PF	28	0	12	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
69	PH	28	0	12	3	0
69	PJ	28	0	12	0	0
69	PL	28	0	12	2	0
69	QA	28	0	12	2	0
69	QC	28	0	12	2	0
69	QE	28	0	12	1	0
69	QG	28	0	12	2	0
69	QI	28	0	12	2	0
69	QK	28	0	12	7	0
69	RA	28	0	12	3	0
69	RC	28	0	12	2	0
69	RE	28	0	12	0	0
69	RG	28	0	12	0	0
69	RI	28	0	12	3	0
69	RK	28	0	12	1	0
69	S	28	0	12	1	0
69	SB	28	0	12	0	0
69	SD	28	0	12	1	0
69	SF	28	0	12	3	0
69	SH	28	0	12	2	0
69	SJ	28	0	12	0	0
69	T	28	0	12	1	0
69	TB	28	0	12	1	0
69	TD	28	0	12	2	0
69	TF	28	0	12	1	0
69	TH	28	0	12	1	0
69	TJ	28	0	12	1	0
69	TL	28	0	12	3	0
69	U	28	0	12	1	0
69	UB	28	0	12	1	0
69	UD	28	0	12	3	0
69	UF	28	0	12	1	0
69	UH	28	0	12	0	0
69	UJ	28	0	12	0	0
69	UL	28	0	12	3	0
69	V	28	0	12	2	0
69	VB	28	0	12	0	0
69	VD	28	0	12	1	0
69	VF	28	0	12	1	0
69	VH	28	0	12	1	0
69	VJ	28	0	12	3	0
69	VL	28	0	12	3	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
69	W	28	0	12	1	0
69	WB	28	0	12	1	0
69	WD	28	0	12	1	0
69	WF	28	0	12	1	0
69	WH	28	0	12	3	0
69	WJ	28	0	12	3	0
69	WL	28	0	12	2	0
70	AA	1	0	0	0	0
70	AC	1	0	0	0	0
70	AE	1	0	0	0	0
70	AG	1	0	0	0	0
70	AI	1	0	0	0	0
70	AK	1	0	0	0	0
70	AM	1	0	0	0	0
70	BA	1	0	0	0	0
70	BC	1	0	0	0	0
70	BE	1	0	0	0	0
70	BG	1	0	0	0	0
70	BI	1	0	0	0	0
70	BK	1	0	0	0	0
70	BM	1	0	0	0	0
70	C	1	0	0	0	0
70	CB	1	0	0	0	0
70	CD	1	0	0	0	0
70	CF	1	0	0	0	0
70	CH	1	0	0	0	0
70	CJ	1	0	0	0	0
70	CL	1	0	0	0	0
70	D	1	0	0	0	0
70	DB	1	0	0	0	0
70	DD	1	0	0	0	0
70	DF	1	0	0	0	0
70	DH	1	0	0	0	0
70	DJ	1	0	0	0	0
70	DL	1	0	0	0	0
70	EA	1	0	0	0	0
70	EC	1	0	0	0	0
70	EE	1	0	0	0	0
70	EG	1	0	0	0	0
70	EI	1	0	0	0	0
70	EK	1	0	0	0	0
70	FA	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
70	FC	1	0	0	0	0
70	FE	1	0	0	0	0
70	FG	1	0	0	0	0
70	FI	1	0	0	0	0
70	FK	1	0	0	0	0
70	GA	1	0	0	0	0
70	GC	1	0	0	0	0
70	GE	1	0	0	0	0
70	GG	1	0	0	0	0
70	GI	1	0	0	0	0
70	GK	1	0	0	0	0
70	HA	1	0	0	0	0
70	HC	1	0	0	0	0
70	HE	1	0	0	0	0
70	HG	1	0	0	0	0
70	HI	1	0	0	0	0
70	HK	1	0	0	0	0
70	HM	1	0	0	0	0
70	IA	1	0	0	0	0
70	IC	1	0	0	0	0
70	IE	1	0	0	0	0
70	IG	1	0	0	0	0
70	II	1	0	0	0	0
70	IK	1	0	0	0	0
70	IM	1	0	0	0	0
70	J	1	0	0	0	0
70	JB	1	0	0	0	0
70	JD	1	0	0	0	0
70	JF	1	0	0	0	0
70	JH	1	0	0	0	0
70	JJ	1	0	0	0	0
70	JL	1	0	0	0	0
70	JN	1	0	0	0	0
70	K	1	0	0	0	0
70	KB	1	0	0	0	0
70	KD	1	0	0	0	0
70	KF	1	0	0	0	0
70	KH	1	0	0	0	0
70	KJ	1	0	0	0	0
70	KL	1	0	0	0	0
70	KN	1	0	0	0	0
70	L	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
70	LB	1	0	0	0	0
70	LD	1	0	0	0	0
70	LF	1	0	0	0	0
70	LH	1	0	0	0	0
70	LJ	1	0	0	0	0
70	LL	1	0	0	0	0
70	LN	1	0	0	0	0
70	MA	1	0	0	0	0
70	MC	1	0	0	0	0
70	ME	1	0	0	0	0
70	MG	1	0	0	0	0
70	MI	1	0	0	0	0
70	MK	1	0	0	0	0
70	MM	1	0	0	0	0
70	NA	1	0	0	0	0
70	NC	1	0	0	0	0
70	NE	1	0	0	0	0
70	NG	1	0	0	0	0
70	NI	1	0	0	0	0
70	NK	1	0	0	0	0
70	NM	1	0	0	0	0
70	OA	1	0	0	0	0
70	OC	1	0	0	0	0
70	OE	1	0	0	0	0
70	OG	1	0	0	0	0
70	OI	1	0	0	0	0
70	OK	1	0	0	0	0
70	OM	1	0	0	0	0
70	PA	1	0	0	0	0
70	PC	1	0	0	0	0
70	PE	1	0	0	0	0
70	PG	1	0	0	0	0
70	PI	1	0	0	0	0
70	PK	1	0	0	0	0
70	PM	1	0	0	0	0
70	Q	1	0	0	0	0
70	QB	1	0	0	0	0
70	QD	1	0	0	0	0
70	QF	1	0	0	0	0
70	QH	1	0	0	0	0
70	QJ	1	0	0	0	0
70	QL	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
70	R	1	0	0	0	0
70	RB	1	0	0	0	0
70	RD	1	0	0	0	0
70	RF	1	0	0	0	0
70	RH	1	0	0	0	0
70	RJ	1	0	0	0	0
70	RL	1	0	0	0	0
70	SA	1	0	0	0	0
70	SC	1	0	0	0	0
70	SE	1	0	0	0	0
70	SG	1	0	0	0	0
70	SI	1	0	0	0	0
70	SK	1	0	0	0	0
70	TA	1	0	0	0	0
70	TC	1	0	0	0	0
70	TE	1	0	0	0	0
70	TG	1	0	0	0	0
70	TI	1	0	0	0	0
70	TK	1	0	0	0	0
70	UA	1	0	0	0	0
70	UC	1	0	0	0	0
70	UE	1	0	0	0	0
70	UG	1	0	0	0	0
70	UI	1	0	0	0	0
70	UK	1	0	0	0	0
70	VA	1	0	0	0	0
70	VC	1	0	0	0	0
70	VE	1	0	0	0	0
70	VG	1	0	0	0	0
70	VI	1	0	0	0	0
70	VK	1	0	0	0	0
70	VM	1	0	0	0	0
70	WA	1	0	0	0	0
70	WC	1	0	0	0	0
70	WE	1	0	0	0	0
70	WG	1	0	0	0	0
70	WI	1	0	0	0	0
70	WK	1	0	0	0	0
70	WM	1	0	0	0	0
71	AA	32	0	12	2	0
71	AC	32	0	12	2	0
71	AE	32	0	12	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
71	AG	32	0	12	1	0
71	AI	32	0	12	0	0
71	AK	32	0	12	1	0
71	AM	32	0	12	1	0
71	BA	32	0	12	0	0
71	BC	32	0	12	1	0
71	BE	32	0	12	2	0
71	BG	32	0	12	4	0
71	BI	32	0	12	0	0
71	BK	32	0	12	1	0
71	BM	32	0	12	4	0
71	C	32	0	12	0	0
71	CB	32	0	12	2	0
71	CD	32	0	12	0	0
71	CF	32	0	12	0	0
71	CH	32	0	12	3	0
71	CJ	32	0	12	1	0
71	CL	32	0	12	0	0
71	D	32	0	12	5	0
71	DB	32	0	12	2	0
71	DD	32	0	12	3	0
71	DF	32	0	12	0	0
71	DH	32	0	12	0	0
71	DJ	32	0	12	1	0
71	DL	32	0	12	2	0
71	EA	32	0	12	0	0
71	EC	32	0	12	0	0
71	EE	32	0	12	1	0
71	EG	32	0	12	1	0
71	EI	32	0	12	2	0
71	EK	32	0	12	0	0
71	FA	32	0	12	2	0
71	FC	32	0	12	0	0
71	FE	32	0	12	0	0
71	FG	32	0	12	0	0
71	FI	32	0	12	0	0
71	FK	32	0	12	1	0
71	GA	32	0	12	1	0
71	GC	32	0	12	4	0
71	GE	32	0	12	1	0
71	GG	32	0	12	3	0
71	GI	32	0	12	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
71	GK	32	0	12	1	0
71	HA	32	0	12	1	0
71	HC	32	0	12	0	0
71	HE	32	0	12	1	0
71	HG	32	0	12	1	0
71	HI	32	0	12	2	0
71	HK	32	0	12	2	0
71	HM	32	0	12	3	0
71	IA	32	0	12	1	0
71	IC	32	0	12	2	0
71	IE	32	0	12	2	0
71	IG	32	0	12	0	0
71	II	32	0	12	2	0
71	IK	32	0	12	3	0
71	IM	32	0	12	1	0
71	J	32	0	12	0	0
71	JB	32	0	12	1	0
71	JD	32	0	12	0	0
71	JF	32	0	12	1	0
71	JH	32	0	12	1	0
71	JJ	32	0	12	1	0
71	JL	32	0	12	2	0
71	JN	32	0	12	1	0
71	K	32	0	12	2	0
71	KB	32	0	12	1	0
71	KD	32	0	12	1	0
71	KF	32	0	12	2	0
71	KH	32	0	12	2	0
71	KJ	32	0	12	1	0
71	KL	32	0	12	1	0
71	KN	32	0	12	1	0
71	L	32	0	12	1	0
71	LB	32	0	12	1	0
71	LD	32	0	12	0	0
71	LF	32	0	12	1	0
71	LH	32	0	12	2	0
71	LJ	32	0	12	2	0
71	LL	32	0	12	1	0
71	LN	32	0	12	1	0
71	MA	32	0	12	0	0
71	MC	32	0	12	1	0
71	ME	32	0	12	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
71	MG	32	0	12	2	0
71	MI	32	0	12	2	0
71	MK	32	0	12	0	0
71	MM	32	0	12	0	0
71	NA	32	0	12	1	0
71	NC	32	0	12	1	0
71	NE	32	0	12	1	0
71	NG	32	0	12	1	0
71	NI	32	0	12	0	0
71	NK	32	0	12	2	0
71	NM	32	0	12	1	0
71	OA	32	0	12	3	0
71	OC	32	0	12	5	0
71	OE	32	0	12	0	0
71	OG	32	0	12	1	0
71	OI	32	0	12	0	0
71	OK	32	0	12	0	0
71	OM	32	0	12	1	0
71	PA	32	0	12	1	0
71	PC	32	0	12	2	0
71	PE	32	0	12	5	0
71	PG	32	0	12	4	0
71	PI	32	0	12	3	0
71	PK	32	0	12	2	0
71	PM	32	0	12	1	0
71	Q	32	0	12	0	0
71	QB	32	0	12	1	0
71	QD	32	0	12	0	0
71	QF	32	0	12	2	0
71	QH	32	0	12	3	0
71	QJ	32	0	12	1	0
71	QL	32	0	12	2	0
71	R	32	0	12	3	0
71	RB	32	0	12	1	0
71	RD	32	0	12	3	0
71	RF	32	0	12	3	0
71	RH	32	0	12	3	0
71	RJ	32	0	12	1	0
71	RL	32	0	12	2	0
71	SA	32	0	12	0	0
71	SC	32	0	12	0	0
71	SE	32	0	12	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
71	SG	32	0	12	1	0
71	SI	32	0	12	2	0
71	SK	32	0	12	2	0
71	TA	32	0	12	0	0
71	TC	32	0	12	0	0
71	TE	32	0	12	1	0
71	TG	32	0	12	2	0
71	TI	32	0	12	4	0
71	TK	32	0	12	1	0
71	UA	32	0	12	1	0
71	UC	32	0	12	2	0
71	UE	32	0	12	0	0
71	UG	32	0	12	2	0
71	UI	32	0	12	2	0
71	UK	32	0	12	1	0
71	VA	32	0	12	1	0
71	VC	32	0	12	1	0
71	VE	32	0	12	1	0
71	VG	32	0	12	1	0
71	VI	32	0	12	0	0
71	VK	32	0	12	1	0
71	VM	32	0	12	3	0
71	WA	32	0	12	0	0
71	WC	32	0	12	0	0
71	WE	32	0	12	0	0
71	WG	32	0	12	4	0
71	WI	32	0	12	3	0
71	WK	32	0	12	1	0
71	WM	32	0	12	2	0
72	0	1	0	0	0	0
72	0A	1	0	0	0	0
72	0z	1	0	0	0	0
72	1V	2	0	0	0	0
72	1Y	2	0	0	0	0
72	1b	2	0	0	3	0
72	1c	2	0	0	0	0
72	1e	2	0	0	0	0
72	1h	2	0	0	0	0
72	1q	3	0	0	0	0
72	1s	1	0	0	0	0
72	1t	1	0	0	0	0
72	1w	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
72	1x	2	0	0	0	0
72	3S	1	0	0	0	0
72	4W	2	0	0	1	0
72	5S	1	0	0	0	0
72	5T	1	0	0	0	0
73	1S	1	0	0	0	0
73	2v	1	0	0	0	0
73	2w	1	0	0	0	0
74	2v	31	0	10	1	0
74	2w	31	0	12	0	0
All	All	1371722	0	1329418	45747	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 17.

All (45747) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:0F:50:GLY:HA2	8:0F:55:HIS:CD2	1.22	1.69
2:OC:60:LYS:CE	41:2k:194:ARG:NH1	1.75	1.49
2:LJ:264:ARG:NH1	22:0z:144:LYS:CD	1.75	1.48
1:SJ:122:LYS:NZ	61:3x:82:TYR:CE1	1.68	1.46
1:SJ:125:GLU:CD	61:3x:82:TYR:HB2	1.41	1.46
28:1b:21:ARG:HA	41:2h:351:ARG:NH2	1.30	1.41
2:OC:60:LYS:NZ	41:2k:194:ARG:HH11	1.00	1.40
2:LJ:264:ARG:HH12	22:0z:144:LYS:CD	1.28	1.38
8:0F:50:GLY:CA	8:0F:55:HIS:CD2	2.07	1.36
2:JH:364:PRO:O	47:3D:165:GLN:NE2	1.57	1.34
2:QD:263:PRO:HG2	55:3b:74:GLU:OE2	1.25	1.33
1:T:333:VAL:HG22	61:3w:130:THR:CG2	1.56	1.33
2:OC:60:LYS:HE3	41:2k:194:ARG:NH1	1.37	1.33
2:UK:116:ASP:OD2	62:4B:376:ALA:C	1.70	1.31
4:XM:28:ALA:HB1	4:XM:32:GLY:C	1.54	1.30
28:1b:21:ARG:CA	41:2h:351:ARG:NH2	1.93	1.30
3:XD:4:ASN:CG	4:XQ:32:GLY:HA2	1.57	1.28
2:BG:1:MET:SD	1:BH:94:GLN:OE1	1.92	1.27
1:SJ:125:GLU:OE2	61:3x:82:TYR:CB	1.80	1.26
3:XD:4:ASN:ND2	4:XQ:32:GLY:HA2	1.50	1.26
2:LJ:264:ARG:NH1	22:0z:144:LYS:HD2	0.94	1.25
1:SJ:125:GLU:OE1	61:3x:82:TYR:HB2	1.30	1.23
1:LK:39:ASP:OD1	45:2z:78:LYS:HA	1.36	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:1a:236:CYS:SG	28:1b:28:HIS:CE1	2.32	1.22
2:GK:282:TYR:CE2	10:0S:320:LEU:HD11	1.74	1.22
1:JA:416:ASN:OD1	60:3r:48:ILE:CG1	1.85	1.22
1:TL:291:GLN:HG3	61:3x:130:THR:OG1	1.33	1.22
28:4V:251:HIS:CE1	28:4W:30:CYS:SG	2.33	1.21
28:1b:4:LEU:HB2	41:2h:358:ARG:HH12	1.04	1.21
1:TL:333:VAL:HG22	61:3x:130:THR:CG2	1.71	1.21
8:0F:50:GLY:C	8:0F:55:HIS:HB2	1.67	1.19
8:0F:53:ASP:OD1	8:0F:55:HIS:CD2	1.96	1.18
1:T:333:VAL:CG2	61:3w:130:THR:CG2	2.22	1.18
2:GK:282:TYR:HE2	10:0S:320:LEU:CD1	1.58	1.16
1:JA:416:ASN:OD1	60:3r:48:ILE:HG12	1.43	1.16
1:SJ:125:GLU:CD	61:3x:82:TYR:CB	2.19	1.16
1:AB:2:ARG:N	1:AB:129:CYS:HG	1.45	1.15
28:1a:239:THR:HG22	28:1b:28:HIS:NE2	1.61	1.15
1:JG:413:SER:OG	60:3s:46:ARG:CG	1.95	1.14
2:VC:338:LYS:HA	62:4B:170:LYS:NZ	1.59	1.14
2:OC:60:LYS:HZ1	41:2k:194:ARG:NH1	1.35	1.14
1:LK:40:SER:HB2	45:2z:80:VAL:CG2	1.77	1.13
2:VG:308:ARG:HB2	62:4B:269:MET:HE1	1.24	1.13
2:LJ:393:HIS:CE1	22:0z:75:CYS:SG	2.40	1.13
2:GK:282:TYR:HE2	10:0S:320:LEU:HD11	0.99	1.12
1:LK:40:SER:HB2	45:2z:80:VAL:HG22	1.27	1.12
1:T:333:VAL:CG2	61:3w:130:THR:HG21	1.78	1.12
2:VC:338:LYS:HA	62:4B:170:LYS:HZ1	1.05	1.11
18:0p:267:LEU:HD13	49:3Q:29:LEU:HD21	1.26	1.11
28:1a:250:GLY:O	28:1b:31:PRO:HD2	1.47	1.11
28:1b:21:ARG:CB	41:2h:351:ARG:NH2	2.13	1.11
22:1y:146:ASP:OD2	33:2I:221:GLU:OE2	1.67	1.11
2:QD:263:PRO:CG	55:3b:74:GLU:OE2	1.99	1.11
1:SJ:122:LYS:CE	61:3x:82:TYR:CE1	2.33	1.11
28:1g:252:ILE:O	28:1h:18:CYS:O	1.69	1.11
28:1b:21:ARG:CB	41:2h:351:ARG:HH22	1.65	1.10
1:LK:40:SER:CB	45:2z:80:VAL:HG22	1.81	1.10
2:SK:123:ARG:NH1	61:3x:109:GLU:HG3	1.66	1.10
28:1a:236:CYS:SG	28:1b:28:HIS:ND1	2.25	1.09
28:1a:251:HIS:HB3	28:1b:18:CYS:SG	1.93	1.09
2:LJ:435:VAL:HG12	22:0z:147:THR:HG21	1.33	1.09
2:JH:364:PRO:C	47:3D:165:GLN:NE2	2.10	1.08
1:JM:409:THR:HB	60:3t:45:VAL:HG21	1.28	1.08
4:XM:28:ALA:CB	4:XM:32:GLY:C	2.26	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:3i:160:ASP:OD2	61:3x:113:LYS:O	1.71	1.08
2:LJ:264:ARG:CZ	22:0z:144:LYS:HD2	1.83	1.08
28:1g:241:VAL:HG11	28:1h:19:VAL:HG11	1.33	1.08
2:KH:60:LYS:HG3	23:1E:183:ARG:HH21	1.18	1.07
2:QB:77:GLU:OE1	28:1b:43:TYR:HB3	1.53	1.07
1:BH:350:LYS:HZ1	2:BI:181:VAL:HG13	1.17	1.06
1:QC:2:ARG:N	1:QC:129:CYS:HG	1.52	1.06
1:SJ:125:GLU:OE2	61:3x:82:TYR:HB2	1.45	1.06
28:4W:20:CYS:SG	28:4W:21:ARG:N	2.29	1.06
28:1b:21:ARG:HB3	41:2h:351:ARG:HH22	1.15	1.06
2:MC:163:LYS:HB2	32:2B:61:ARG:HG3	1.31	1.05
1:SJ:125:GLU:OE2	61:3x:82:TYR:HB3	1.57	1.05
1:TL:333:VAL:CG2	61:3x:130:THR:HG22	1.87	1.05
28:1a:239:THR:CG2	28:1b:28:HIS:NE2	2.19	1.05
1:LK:39:ASP:OD1	45:2z:78:LYS:HD3	1.55	1.04
2:SK:123:ARG:HH12	61:3x:109:GLU:HG3	1.16	1.04
1:T:333:VAL:HG22	61:3w:130:THR:HG22	1.38	1.04
28:1b:21:ARG:HB3	41:2h:351:ARG:NH2	1.72	1.04
1:JG:413:SER:OG	60:3s:46:ARG:HG3	1.58	1.04
8:0F:50:GLY:CA	8:0F:55:HIS:HD2	1.54	1.04
24:1J:647:ARG:HH11	24:1J:648:MET:HE3	1.23	1.03
1:LK:40:SER:CB	45:2z:80:VAL:CG2	2.36	1.03
2:SI:278:ALA:HB2	41:2c:316:GLU:OE2	1.57	1.03
2:VG:308:ARG:HB2	62:4B:269:MET:CE	1.89	1.03
2:BG:269:LEU:HD22	2:BG:303:THR:HG21	1.41	1.02
28:1a:254:LEU:HD21	28:1b:22:ILE:CD1	1.89	1.02
2:LJ:430:LYS:HE2	22:0z:141:ALA:O	1.59	1.01
2:LJ:434:GLU:OE2	22:0z:147:THR:OG1	1.78	1.01
28:1a:236:CYS:SG	28:1b:23:CYS:SG	2.58	1.01
28:1g:244:ARG:HE	28:1g:254:LEU:HD21	1.24	1.01
1:JA:416:ASN:OD1	60:3r:48:ILE:CA	2.07	1.01
1:CI:207:LEU:HB3	1:CI:225:LEU:HD11	1.43	1.00
1:AF:2:ARG:N	1:AF:129:CYS:HG	1.59	1.00
1:SB:301:GLN:HE21	1:SB:377:MET:HE2	1.25	1.00
2:VC:337:THR:O	62:4B:170:LYS:NZ	1.93	1.00
2:L:196:GLU:OE1	14:0c:119:TYR:O	1.81	0.99
28:1g:241:VAL:HG11	28:1h:19:VAL:CG1	1.91	0.99
2:OC:60:LYS:CE	41:2k:194:ARG:HH11	1.56	0.99
1:TL:333:VAL:HG22	61:3x:130:THR:HG22	0.99	0.99
1:AH:16:ILE:HA	1:AH:19:LYS:HE3	1.45	0.98
2:AK:264:ARG:HD3	3:XE:115:LYS:HE3	1.42	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LJ:264:ARG:HH11	22:0z:144:LYS:HB2	1.27	0.98
54:3a:81:TYR:O	54:3a:85:TYR:HB2	1.62	0.98
2:LB:393:HIS:CE1	22:1w:75:CYS:SG	2.56	0.98
2:LJ:264:ARG:NH1	22:0z:144:LYS:CG	2.25	0.98
1:LG:194:GLU:HA	13:0Z:101:ARG:HH21	1.27	0.98
3:XD:4:ASN:ND2	4:XQ:32:GLY:CA	2.27	0.97
1:LK:412:GLU:OE2	22:0z:153:PHE:CE2	2.12	0.97
22:1x:260:ARG:NE	41:2h:194:ARG:O	1.97	0.97
44:2w:218:ARG:NH2	44:2w:377:GLU:OE1	1.97	0.97
2:OC:60:LYS:CE	41:2k:194:ARG:HH12	1.57	0.96
1:JM:409:THR:HB	60:3t:45:VAL:CG2	1.94	0.96
1:QA:2:ARG:N	1:QA:129:CYS:HG	1.61	0.96
2:NA:317:LEU:HD13	2:NA:377:MET:HE1	1.48	0.96
2:MM:326:LYS:NZ	1:MN:211:CYS:SG	2.38	0.96
2:NC:317:LEU:HD13	2:NC:377:MET:HE1	1.47	0.96
1:SJ:125:GLU:OE1	61:3x:82:TYR:CB	2.11	0.96
2:MC:163:LYS:HB2	32:2B:61:ARG:CG	1.96	0.95
28:1a:254:LEU:HD21	28:1b:22:ILE:HD11	1.47	0.95
2:LN:423:GLU:HG3	6:0A:250:LEU:HD21	1.49	0.95
1:PD:2:ARG:N	1:PD:129:CYS:HG	1.62	0.95
1:PL:217:LEU:HB2	1:PL:220:PRO:HG3	1.47	0.95
2:HK:372:GLN:HE22	17:0n:144:GLN:HG2	1.30	0.94
1:KE:52:ASP:HB3	1:KE:62:ARG:HE	1.32	0.94
1:WB:102:ALA:HB2	1:WB:403:MET:HE2	1.50	0.94
2:LD:390:ARG:HH12	31:1q:49:CYS:HA	1.32	0.94
2:LL:197:HIS:HE1	14:0d:118:VAL:HG13	1.31	0.94
2:OA:317:LEU:HD13	2:OA:377:MET:HE1	1.49	0.94
8:0F:50:GLY:CA	8:0F:55:HIS:CG	2.50	0.94
1:OB:232:VAL:HG21	1:OB:300:MET:HE1	1.50	0.94
2:VG:308:ARG:CB	62:4B:269:MET:HE1	1.95	0.94
6:0A:161:ALA:H	33:2I:286:PRO:HD3	1.31	0.94
1:EJ:232:VAL:HG11	1:EJ:268:MET:HE1	1.47	0.93
1:KK:213:ARG:NH1	1:KK:214:THR:OG1	2.00	0.93
2:TA:269:LEU:HD22	2:TA:303:THR:HG21	1.50	0.93
1:KK:213:ARG:HH21	1:KK:297:LYS:HG2	1.31	0.93
2:CD:180:ALA:HB3	2:CD:183:GLU:HB2	1.51	0.93
1:MN:289:LEU:HD11	1:MN:363:MET:HG3	1.50	0.93
1:SJ:122:LYS:NZ	61:3x:82:TYR:CD1	2.36	0.93
1:BH:252:LYS:NZ	2:BI:101:ASN:HB2	1.83	0.93
1:FD:267:MET:SD	1:FD:301:GLN:NE2	2.42	0.93
1:LK:40:SER:OG	45:2z:80:VAL:HG21	1.69	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ND:2:ARG:N	1:ND:129:CYS:HG	1.67	0.93
2:GC:337:THR:OG1	59:4O:175:ARG:NH1	2.01	0.93
2:OE:269:LEU:HD22	2:OE:303:THR:HG21	1.51	0.93
44:2v:241:ARG:NH1	49:3P:401:MET:SD	2.42	0.93
1:JA:416:ASN:ND2	60:3r:48:ILE:HA	1.83	0.93
1:OB:329:GLN:NE2	1:OB:330:MET:SD	2.42	0.93
1:DM:165:MET:HE1	1:DM:250:LEU:HD22	1.49	0.92
1:OF:334:GLN:HE21	1:OF:349:ILE:HG12	1.35	0.92
2:QJ:402:ARG:HG3	2:QJ:405:VAL:HG21	1.51	0.92
47:3D:38:TYR:HB3	47:3D:42:THR:HB	1.51	0.92
1:O:267:MET:HG3	1:O:268:MET:H	1.33	0.92
44:2v:213:MET:HE1	44:2v:297:MET:HE1	1.48	0.92
2:UC:126:ALA:HB1	62:4B:168:TYR:CE1	2.04	0.92
1:FD:156:ARG:HG3	1:FD:195:ASN:HB2	1.51	0.92
17:0m:108:VAL:HG12	17:0m:112:ARG:HH11	1.31	0.92
28:1b:21:ARG:CA	41:2h:351:ARG:HH21	1.70	0.92
2:MC:269:LEU:HD22	2:MC:303:THR:HG21	1.50	0.92
2:OC:326:LYS:HZ2	1:OD:219:THR:HA	1.35	0.92
1:TL:333:VAL:CG2	61:3x:130:THR:CG2	2.45	0.92
1:UJ:287:ALA:HA	1:UJ:329:GLN:HE22	1.33	0.92
1:LK:412:GLU:OE2	22:0z:153:PHE:HE2	1.34	0.91
1:VF:163:ILE:HD11	1:VF:251:ARG:HE	1.35	0.91
1:WF:372:THR:HG21	1:WF:426:GLN:HB2	1.52	0.91
28:1b:21:ARG:HA	41:2h:351:ARG:HH21	0.77	0.91
30:1o:32:LYS:NZ	62:4B:172:ASP:O	2.04	0.91
3:XD:4:ASN:OD1	4:XQ:32:GLY:HA2	1.70	0.91
2:GA:207:GLU:HB3	2:GA:304:LYS:HZ2	1.35	0.91
1:LI:324:LYS:HD3	2:LJ:222:PRO:HD2	1.53	0.91
1:DK:66:MET:HE1	1:DK:151:LEU:HD22	1.54	0.90
1:JA:416:ASN:OD1	60:3r:48:ILE:N	2.05	0.90
2:GK:282:TYR:CE2	10:0S:320:LEU:CD1	2.43	0.90
1:OF:246:LEU:HA	2:OG:11:GLN:HE22	1.35	0.90
1:FD:156:ARG:NH2	1:FD:197:ASP:OD1	2.05	0.90
1:NF:371:ASN:ND2	1:NF:373:CYS:SG	2.43	0.90
1:KE:324:LYS:HB2	2:KF:221:ARG:HH12	1.36	0.89
2:UC:370:LYS:NZ	8:0I:197:MET:SD	2.45	0.89
28:4V:251:HIS:NE2	28:4W:30:CYS:SG	2.44	0.89
2:LJ:264:ARG:HH11	22:0z:144:LYS:CB	1.84	0.89
21:0w:111:GLN:HA	21:0w:114:LYS:HE2	1.54	0.89
1:WF:246:LEU:HA	2:WG:11:GLN:HE22	1.35	0.89
23:1A:75:GLU:HG2	35:2N:307:LEU:HD11	1.52	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:165:MET:HE1	1:A:250:LEU:HD22	1.53	0.89
1:A:163:ILE:HG13	1:A:251:ARG:HB3	1.52	0.89
2:EK:71:GLU:HB3	2:EK:98:ASP:HB3	1.52	0.89
1:JC:207:LEU:HB3	1:JC:225:LEU:HD11	1.54	0.89
1:S:257:LEU:HD11	1:S:314:SER:HB3	1.53	0.89
1:MF:200:MET:HG3	1:MF:268:MET:HE2	1.55	0.89
1:CK:200:MET:HG2	1:CK:266:PHE:HB2	1.54	0.89
1:CM:66:MET:HB3	1:CM:147:MET:HE1	1.53	0.89
1:JK:286:VAL:HG11	1:JK:325:GLU:HG3	1.55	0.89
2:RJ:175:PRO:HD2	2:RJ:176:GLN:H	1.38	0.89
2:KH:71:GLU:HB3	2:KH:98:ASP:HB3	1.53	0.89
2:VC:338:LYS:CA	62:4B:170:LYS:HZ1	1.86	0.89
44:2w:382:TYR:OH	44:2w:403:TRP:NE1	2.05	0.89
1:OJ:324:LYS:HZ1	2:OK:222:PRO:HB2	1.36	0.88
44:2v:210:ILE:HD11	44:2v:384:GLY:HA2	1.55	0.88
1:GL:102:ALA:HB1	1:GL:401:GLU:HB2	1.55	0.88
2:NM:288:VAL:HG11	2:NM:327:ASP:HB3	1.53	0.88
41:2o:427:ARG:HH21	41:2o:428:LYS:HE3	1.39	0.88
1:AH:19:LYS:HE2	1:AH:226:ASN:HB3	1.56	0.88
2:NI:180:ALA:HB3	2:NI:183:GLU:HB2	1.55	0.88
1:OJ:267:MET:SD	1:OJ:371:ASN:ND2	2.47	0.88
1:DA:66:MET:HE1	1:DA:151:LEU:HD22	1.53	0.88
2:IM:215:ARG:HH22	2:IM:300:GLY:HA2	1.37	0.88
3:XB:75:PHE:HB2	3:XB:168:SER:O	1.73	0.88
2:JF:264:ARG:HB2	60:3s:34:ILE:HD11	1.55	0.88
59:3o:270:ARG:HG2	59:3o:274:GLN:HE22	1.37	0.88
2:IE:326:LYS:HZ3	1:IF:219:THR:HA	1.38	0.88
1:OH:287:ALA:HA	1:OH:329:GLN:HE22	1.38	0.88
2:TI:326:LYS:NZ	1:TJ:220:PRO:O	2.06	0.88
3:XE:115:LYS:HB3	3:XE:118:ILE:O	1.74	0.88
11:0U:241:GLU:O	11:0U:245:GLU:HB2	1.74	0.88
1:CM:372:THR:HG21	1:CM:426:GLN:HB2	1.55	0.88
1:MB:175:VAL:HG23	1:MB:205:GLU:HG2	1.56	0.87
1:ML:362:LYS:N	23:1B:265:GLU:OE1	2.07	0.87
1:VJ:247:ASN:H	2:VK:11:GLN:HE22	1.17	0.87
28:1g:256:VAL:HG22	28:1h:17:THR:HG23	1.56	0.87
1:BN:207:LEU:HB3	1:BN:225:LEU:HD22	1.56	0.87
2:PA:326:LYS:NZ	1:PB:220:PRO:O	2.06	0.87
2:QB:71:GLU:HB3	2:QB:98:ASP:HB3	1.56	0.87
1:BJ:232:VAL:HG11	1:BJ:300:MET:HE1	1.56	0.87
1:TH:232:VAL:HG21	1:TH:268:MET:HE1	1.56	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IK:326:LYS:NZ	1:IL:218:THR:O	2.07	0.87
2:RL:298:PRO:HG3	2:RL:308:ARG:HH21	1.37	0.87
1:EL:66:MET:HE1	1:EL:151:LEU:HD22	1.54	0.87
2:LL:326:LYS:NZ	1:LM:220:PRO:O	2.08	0.87
6:0A:257:SER:HB2	22:1y:141:ALA:CB	2.05	0.87
31:1q:242:ILE:HD11	22:1w:247:SER:HA	1.56	0.87
1:IH:200:MET:HE2	1:IH:268:MET:HE2	1.56	0.87
1:IL:186:THR:HA	1:IL:415:MET:HE3	1.57	0.87
2:UK:116:ASP:OD2	62:4B:376:ALA:O	1.91	0.87
37:2S:180:ASN:ND2	54:3Z:341:THR:OG1	2.08	0.87
1:JG:301:GLN:NE2	1:JG:377:MET:SD	2.48	0.86
2:OC:60:LYS:HE3	41:2k:194:ARG:HH12	1.04	0.86
2:QH:326:LYS:NZ	1:QI:220:PRO:O	2.08	0.86
2:GC:337:THR:HG1	59:4O:175:ARG:HH12	1.23	0.86
2:PK:326:LYS:HZ1	1:PL:220:PRO:HB2	1.37	0.86
2:VC:338:LYS:CA	62:4B:170:LYS:NZ	2.38	0.86
1:MJ:347:ASN:ND2	2:MK:178:SER:OG	2.06	0.86
2:TC:75:VAL:HG21	2:TC:94:SER:HB2	1.55	0.86
1:NH:165:MET:HE2	1:NH:250:LEU:HD11	1.56	0.86
1:HJ:268:MET:HE1	1:HJ:368:ILE:HG13	1.58	0.86
1:LG:213:ARG:HH22	35:2N:241:ARG:HG3	1.39	0.86
1:MD:107:THR:HG21	32:2B:63:VAL:HG21	1.55	0.86
1:OL:267:MET:SD	1:OL:301:GLN:NE2	2.48	0.86
1:TJ:207:LEU:HB3	1:TJ:225:LEU:HD22	1.55	0.86
1:BF:268:MET:HB3	1:BF:300:MET:HE3	1.58	0.86
1:ML:165:MET:HE1	1:ML:200:MET:HE3	1.57	0.86
2:RH:71:GLU:HB3	2:RH:98:ASP:HB3	1.57	0.86
42:2r:196:ALA:HA	42:2r:218:LEU:HB3	1.55	0.86
65:5H:198:ARG:NH2	65:5H:199:ASP:OD1	2.09	0.86
1:KK:246:LEU:HA	2:KL:11:GLN:HE22	1.38	0.86
41:2h:348:MET:O	41:2h:352:ARG:HG3	1.75	0.86
1:EB:267:MET:HE3	1:EB:301:GLN:HE21	1.39	0.86
28:1a:239:THR:HG23	28:1b:28:HIS:CE1	2.10	0.86
1:BH:207:LEU:HB3	1:BH:225:LEU:HD22	1.57	0.86
2:EC:311:LYS:HE3	2:EC:344:VAL:HA	1.57	0.86
2:FK:175:PRO:HB3	2:FK:390:ARG:HE	1.40	0.86
1:JA:416:ASN:CG	60:3r:48:ILE:HA	1.99	0.86
2:LH:174:SER:HB2	2:LH:207:GLU:HB2	1.55	0.86
5:XN:293:ARG:HG3	5:XN:294:TYR:HD1	1.40	0.86
7:0D:365:GLN:OE1	7:0D:369:LYS:NZ	2.08	0.86
1:GF:301:GLN:NE2	1:GF:377:MET:SD	2.48	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:1E:154:PRO:HG3	45:2z:32:LYS:HD3	1.57	0.85
28:1b:20:CYS:HG	72:1b:301:ZN:ZN	0.90	0.85
2:CH:234:VAL:HG21	2:CH:302:LEU:HD11	1.57	0.85
2:IE:180:ALA:HB3	2:IE:183:GLU:HB2	1.59	0.85
2:LH:282:TYR:HH	35:2N:261:HIS:HD1	1.20	0.85
1:ED:200:MET:HG2	1:ED:266:PHE:HB2	1.55	0.85
2:EE:329:ASN:HD21	1:EF:175:VAL:HG22	1.39	0.85
1:EJ:267:MET:SD	1:EJ:371:ASN:ND2	2.50	0.85
2:MC:163:LYS:HG3	32:2B:57:ASN:HA	1.58	0.85
1:ML:267:MET:HB2	1:ML:301:GLN:HG2	1.57	0.85
2:RB:75:VAL:HG21	2:RB:94:SER:HB2	1.58	0.85
1:T:333:VAL:HG23	61:3w:130:THR:HG21	1.58	0.85
28:1b:4:LEU:HB2	41:2h:358:ARG:NH1	1.79	0.85
2:GI:326:LYS:NZ	1:GJ:220:PRO:O	2.10	0.85
1:W:200:MET:HG2	1:W:266:PHE:HB2	1.56	0.85
6:0:103:LYS:NZ	14:0c:221:VAL:O	2.10	0.85
1:GB:257:LEU:HD12	1:GB:312:THR:HG23	1.58	0.85
1:JG:60:VAL:HG11	1:JG:86:ARG:HG3	1.57	0.85
1:QK:209:ASP:OD2	1:QK:213:ARG:NH1	2.10	0.85
2:WC:75:VAL:HG21	2:WC:94:SER:HB2	1.58	0.85
33:2F:163:TYR:HB2	33:2F:240:LEU:HD21	1.55	0.85
1:JC:191:GLN:O	1:JC:195:ASN:HB2	1.76	0.85
1:OD:257:LEU:HD21	1:OD:314:SER:HB2	1.59	0.85
2:BC:102:ASN:HB3	2:BC:105:ARG:HB2	1.59	0.85
1:FF:125:GLU:OE2	1:GF:336:LYS:NZ	2.09	0.85
1:GJ:392:LYS:NZ	1:GJ:405:GLU:OE2	2.08	0.85
1:KC:201:CYS:SG	1:KC:301:GLN:NE2	2.49	0.85
1:LK:301:GLN:NE2	1:LK:377:MET:SD	2.49	0.85
1:O:102:ALA:HB1	1:O:403:MET:HE3	1.57	0.85
1:HH:133:PHE:HB2	1:HH:164:MET:HG2	1.58	0.85
8:0I:227:ILE:HG22	8:0I:231:GLN:HE22	1.41	0.85
28:1b:21:ARG:CA	41:2h:351:ARG:HH22	1.73	0.85
1:LK:39:ASP:OD1	45:2z:78:LYS:CA	2.23	0.84
1:VF:201:CYS:SG	1:VF:301:GLN:NE2	2.50	0.84
2:RB:71:GLU:HB3	2:RB:98:ASP:HB3	1.59	0.84
1:TD:232:VAL:HG13	1:TD:268:MET:HE2	1.57	0.84
1:G:52:ASP:HB2	1:G:62:ARG:HE	1.38	0.84
2:IK:71:GLU:HB3	2:IK:98:ASP:HB3	1.59	0.84
2:KL:229:ARG:HD2	2:KL:363:VAL:HG21	1.57	0.84
1:MF:163:ILE:HG13	1:MF:251:ARG:HB2	1.59	0.84
1:PL:256:ASN:HD21	2:PM:101:ASN:HD21	1.25	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UH:332:ASN:HD22	1:UH:336:LYS:HZ1	1.25	0.84
2:WC:128:ASN:HD22	5:XN:29:PRO:HG3	1.42	0.84
1:CM:317:PHE:HB3	1:CM:321:MET:HE1	1.57	0.84
1:FL:8:GLN:NE2	1:FL:13:GLY:O	2.10	0.84
2:TC:238:LEU:HA	2:TC:318:MET:HE1	1.57	0.84
14:0d:284:GLU:OE1	14:0d:288:LYS:NZ	2.10	0.84
1:ID:345:ILE:HG23	2:IE:398:MET:HE1	1.59	0.84
2:QH:60:LYS:HE3	2:RH:282:TYR:HE1	1.42	0.84
2:BG:1:MET:CE	1:BH:94:GLN:OE1	2.24	0.84
2:OM:285:GLN:HE22	2:OM:287:SER:HB3	1.42	0.84
1:UF:296:ALA:HA	1:UF:299:MET:HE2	1.57	0.84
1:V:362:LYS:HA	8:0F:165:MET:HE2	1.59	0.84
1:FL:232:VAL:HG21	1:FL:300:MET:HE1	1.56	0.84
1:QK:8:GLN:HE21	1:QK:65:LEU:HA	1.42	0.84
1:HB:330:MET:HE3	1:HB:349:ILE:HD12	1.60	0.84
2:JF:234:VAL:HG21	2:JF:302:LEU:HD11	1.59	0.84
2:JN:175:PRO:HG3	2:JN:304:LYS:HE2	1.60	0.84
2:NM:133:GLN:O	2:NM:165:SER:HB2	1.77	0.84
1:O:217:LEU:HD13	1:O:220:PRO:HD2	1.57	0.84
26:1Q:639:SER:N	36:2Q:63:CYS:HG	1.76	0.84
2:CL:209:ILE:HG13	2:CL:227:VAL:HG13	1.60	0.84
28:1X:256:VAL:HG22	28:1Y:17:THR:HG23	1.60	0.84
48:3I:41:MET:HE1	48:3I:46:LEU:HB2	1.59	0.84
28:4V:237:PRO:HB2	28:4W:22:ILE:HG22	1.57	0.84
1:HH:379:ARG:HG3	1:HH:419:VAL:HG21	1.60	0.84
2:TI:258:ASN:HD21	2:TI:352:LYS:HD2	1.41	0.84
3:XD:4:ASN:HD21	4:XQ:32:GLY:HA2	1.41	0.84
49:3P:328:ARG:HD3	49:3P:455:CYS:HB2	1.57	0.84
1:AD:292:GLN:HG2	1:AD:298:ASN:HD22	1.40	0.83
1:DE:377:MET:SD	1:DE:380:ARG:NH2	2.51	0.83
1:H:313:ALA:HB3	1:H:349:ILE:HG12	1.57	0.83
1:IL:293:MET:HE2	1:IL:365:VAL:HG11	1.57	0.83
2:NA:324:VAL:HG11	2:NA:326:LYS:HZ3	1.41	0.83
2:NE:180:ALA:HB3	2:NE:183:GLU:HB2	1.60	0.83
1:OL:7:CYS:HB2	1:OL:66:MET:HE1	1.59	0.83
1:PJ:8:GLN:HG2	1:PJ:17:GLY:HA3	1.58	0.83
2:UE:2:ARG:HA	2:UE:133:GLN:HE22	1.43	0.83
54:3a:32:ASP:HA	54:3a:36:ASN:HB2	1.59	0.83
1:DG:214:THR:OG1	1:DG:297:LYS:NZ	2.10	0.83
1:GJ:217:LEU:HG	1:GJ:220:PRO:HD3	1.59	0.83
1:JM:420:SER:OG	60:3t:48:ILE:C	2.21	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LO:313:ALA:HB3	1:LO:349:ILE:HG12	1.60	0.83
1:OD:292:GLN:HG2	1:OD:298:ASN:HD22	1.40	0.83
2:BK:133:GLN:HE22	2:BK:251:ASP:HB3	1.43	0.83
10:0S:256:ARG:NH1	10:0S:257:GLN:OE1	2.11	0.83
1:BF:372:THR:HG21	1:BF:426:GLN:HB2	1.59	0.83
1:GB:286:VAL:HG11	1:GB:325:GLU:HB3	1.59	0.83
1:EJ:267:MET:HE1	1:EJ:301:GLN:HE21	1.43	0.83
1:IJ:48:ASN:HD22	49:3Q:15:ILE:HD13	1.40	0.83
2:GG:75:VAL:HG21	2:GG:94:SER:HB2	1.61	0.83
1:MF:345:ILE:HG23	1:MF:348:ASN:HD21	1.40	0.83
1:QA:276:ARG:HH21	41:2h:342:ASN:HA	1.43	0.83
1:SJ:122:LYS:NZ	61:3x:82:TYR:HE1	1.29	0.83
2:AA:377:MET:HE3	2:AA:379:ALA:HB2	1.61	0.83
2:AC:319:TYR:HB3	2:AC:323:VAL:HG21	1.60	0.83
2:KD:215:ARG:NH2	2:KD:299:ALA:O	2.11	0.83
1:EJ:324:LYS:HZ1	2:EK:222:PRO:HG2	1.43	0.83
2:K:316:CYS:HA	2:K:352:LYS:HB2	1.59	0.83
2:L:197:HIS:HE1	14:0c:118:VAL:CG1	1.92	0.83
2:NI:204:LEU:HD13	2:NI:231:ILE:HD11	1.61	0.83
2:PE:79:ARG:HH22	2:PE:94:SER:HB2	1.42	0.83
2:RJ:326:LYS:HE2	1:RK:220:PRO:HD2	1.61	0.83
1:TB:66:MET:HG2	1:TB:91:ILE:HD11	1.59	0.83
2:VG:308:ARG:CB	62:4B:269:MET:CE	2.49	0.83
1:CA:372:THR:HG21	1:CA:426:GLN:HB2	1.60	0.83
1:DC:257:LEU:O	1:DC:370:ASN:ND2	2.11	0.83
2:DL:195:LEU:HD21	2:DL:264:ARG:HH21	1.41	0.83
1:KC:296:ALA:HB2	1:KC:306:ARG:HH12	1.43	0.83
2:PC:55:GLU:O	2:QB:285:GLN:NE2	2.12	0.83
1:PD:286:VAL:HG11	1:PD:325:GLU:HB3	1.57	0.83
1:VJ:280:GLN:HB3	8:0G:223:MET:HE2	1.60	0.83
1:JM:409:THR:CB	60:3t:45:VAL:HG21	2.08	0.83
2:QL:32:PRO:HB2	41:2e:144:MET:HE1	1.60	0.83
1:VH:60:VAL:HG11	1:VH:86:ARG:HG3	1.60	0.83
2:FI:174:SER:HB2	2:FI:207:GLU:HG2	1.60	0.82
1:JC:232:VAL:HB	1:JC:268:MET:HE1	1.61	0.82
1:MN:421:GLU:HG2	33:2I:122:THR:HG21	1.59	0.82
2:TK:326:LYS:HZ1	1:TL:220:PRO:HD2	1.43	0.82
2:WI:174:SER:OG	2:WI:207:GLU:OE1	1.97	0.82
28:1a:256:VAL:HG22	28:1b:17:THR:CG2	2.08	0.82
2:KF:217:LEU:HD21	2:KF:367:ASP:HB2	1.59	0.82
7:0C:341:PRO:HB3	7:0C:345:VAL:HB	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:262:ARG:NH1	5:XN:306:MET:SD	2.51	0.82
1:CC:324:LYS:NZ	2:CD:222:PRO:O	2.12	0.82
1:EL:375:GLN:OE1	1:EL:379:ARG:NH1	2.13	0.82
2:K:358:GLN:HA	49:3P:544:ARG:HH22	1.43	0.82
1:OB:102:ALA:HB2	1:OB:403:MET:HE2	1.59	0.82
33:2G:255:ASP:OD1	33:2G:256:HIS:N	2.12	0.82
1:DG:257:LEU:HD11	1:DG:314:SER:HB2	1.60	0.82
1:DM:311:LEU:HD23	1:DM:342:ILE:HD11	1.58	0.82
2:LN:219:ILE:HG23	2:LN:222:PRO:HG3	1.59	0.82
1:MF:175:VAL:HG21	1:MF:205:GLU:HB2	1.59	0.82
2:NC:238:LEU:HD11	2:NC:378:ILE:HG13	1.61	0.82
1:P:49:VAL:HG11	1:P:241:ARG:HG2	1.61	0.82
1:RA:256:ASN:HD22	1:RA:350:LYS:HD2	1.44	0.82
2:SA:132:LEU:HD22	2:SA:164:LYS:HD3	1.60	0.82
22:1y:146:ASP:OD2	33:2I:221:GLU:CD	2.22	0.82
1:GJ:19:LYS:HZ1	1:GJ:227:HIS:CE1	1.97	0.82
1:JG:218:THR:HG21	47:3D:33:LEU:HD21	1.61	0.82
2:LJ:264:ARG:HH12	22:0z:144:LYS:CG	1.88	0.82
1:V:190:HIS:HB2	1:V:414:ASN:HD21	1.43	0.82
2:VM:174:SER:HB2	2:VM:207:GLU:HG2	1.61	0.82
8:0I:165:MET:HG2	8:0I:169:MET:HE1	1.61	0.82
9:0N:298:TYR:HE1	9:0N:308:PHE:HD1	1.26	0.82
16:0l:16:ARG:HH12	16:0l:105:LEU:HD13	1.43	0.82
22:0z:150:ASN:OD1	48:3H:70:PHE:CE2	2.33	0.82
2:BA:348:PRO:HG2	1:BB:384:GLN:HE21	1.43	0.82
2:BE:97:GLU:HG2	2:BE:105:ARG:HH12	1.44	0.82
1:BN:257:LEU:HD11	1:BN:314:SER:HB3	1.61	0.82
1:JA:246:LEU:HA	2:JB:11:GLN:HE22	1.45	0.82
2:NE:326:LYS:NZ	1:NF:220:PRO:O	2.11	0.82
2:RF:108:TYR:O	2:RF:112:LYS:NZ	2.13	0.82
2:FE:334:THR:O	2:FE:338:LYS:HB2	1.79	0.82
2:JD:203:MET:HE1	2:JD:384:ILE:HD11	1.61	0.82
1:LK:16:ILE:HD12	1:LK:229:VAL:HG21	1.61	0.82
2:QH:71:GLU:HB3	2:QH:98:ASP:HB3	1.62	0.82
1:TD:60:VAL:HG21	1:TD:86:ARG:HG3	1.62	0.82
1:DK:60:VAL:HG11	1:DK:86:ARG:HG3	1.62	0.82
2:EA:338:LYS:NZ	2:EA:340:THR:OG1	2.13	0.82
2:IM:180:ALA:HB3	2:IM:183:GLU:HB2	1.59	0.82
2:KB:298:PRO:HA	2:KB:301:MET:HE3	1.61	0.82
1:OF:202:ILE:HD12	1:OF:300:MET:HE2	1.62	0.82
2:QB:174:SER:HB2	2:QB:207:GLU:HG2	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:5H:160:ARG:HH21	65:5H:163:ARG:HH21	1.28	0.82
1:BJ:286:VAL:HG11	1:BJ:325:GLU:HB3	1.60	0.82
2:DL:115:VAL:HG11	2:DL:152:LEU:HD22	1.62	0.82
1:OJ:287:ALA:HA	1:OJ:329:GLN:HE22	1.43	0.82
1:QI:171:PRO:HG3	1:QI:181:GLU:HG2	1.61	0.82
2:QL:392:ASP:HB2	2:QL:422:ARG:HH12	1.44	0.82
25:1O:696:LEU:O	25:1O:706:GLN:NE2	2.12	0.82
2:AC:11:GLN:HE21	2:AC:15:GLN:HE22	1.26	0.82
2:BK:258:ASN:HB2	1:BL:179:VAL:HB	1.62	0.82
1:G:324:LYS:HE3	2:GA:222:PRO:HD2	1.62	0.82
2:IE:326:LYS:NZ	1:IF:218:THR:O	2.12	0.82
2:KJ:337:THR:O	18:0p:216:ARG:NH2	2.12	0.82
1:LG:213:ARG:NH2	35:2N:241:ARG:O	2.12	0.82
1:NL:16:ILE:HD11	1:NL:229:VAL:HG11	1.60	0.82
2:PC:211:ASP:HA	2:PC:214:ARG:HG2	1.61	0.82
2:R:317:LEU:HD13	2:R:377:MET:HE1	1.61	0.82
10:0R:58:ASP:HB3	47:3D:122:MET:HE1	1.58	0.82
32:2C:32:SER:O	32:2C:37:LYS:NZ	2.13	0.82
2:JB:326:LYS:HZ1	1:JC:219:THR:HA	1.43	0.81
1:LG:261:PRO:HB2	13:0Z:101:ARG:HH11	1.45	0.81
1:LK:39:ASP:OD1	45:2z:78:LYS:CD	2.28	0.81
2:NM:75:VAL:HG21	2:NM:94:SER:HB2	1.61	0.81
1:OJ:200:MET:HE1	1:OJ:368:ILE:HD12	1.59	0.81
2:SI:366:GLY:O	41:2c:320:LYS:NZ	2.12	0.81
8:0F:50:GLY:CA	8:0F:55:HIS:HB2	2.10	0.81
1:AD:323:THR:HA	1:AD:326:VAL:HG12	1.60	0.81
2:LJ:326:LYS:NZ	1:LK:208:TYR:O	2.12	0.81
2:RL:196:GLU:HB3	57:3i:122:ARG:HH22	1.45	0.81
1:WL:301:GLN:NE2	1:WL:377:MET:SD	2.53	0.81
1:AN:200:MET:HE2	1:AN:268:MET:HE2	1.62	0.81
1:CK:165:MET:HE1	1:CK:250:LEU:HD22	1.62	0.81
1:E:347:ASN:ND2	2:EA:178:SER:OG	2.13	0.81
1:ED:267:MET:HE3	1:ED:301:GLN:HE21	1.45	0.81
1:GJ:248:SER:HA	1:GJ:252:LYS:HD3	1.61	0.81
1:JA:416:ASN:HD21	60:3r:48:ILE:CA	1.92	0.81
2:K:288:VAL:HB	2:K:327:ASP:HB3	1.62	0.81
2:LF:71:GLU:HB3	2:LF:98:ASP:HB3	1.61	0.81
2:OC:35:SER:HB3	41:2k:190:TRP:HZ3	1.45	0.81
1:QC:256:ASN:HD22	1:QC:350:LYS:HG3	1.46	0.81
1:SJ:122:LYS:CE	61:3x:82:TYR:CZ	2.63	0.81
17:0m:9:GLU:OE2	17:0m:13:ARG:NH1	2.14	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:2w:333:GLN:HG3	44:2w:356:LEU:HD21	1.59	0.81
52:3U:132:GLU:HB3	52:3U:137:THR:HG21	1.60	0.81
1:DA:207:LEU:HB3	1:DA:225:LEU:HD22	1.59	0.81
2:NG:174:SER:HB2	2:NG:207:GLU:HG2	1.62	0.81
2:OI:11:GLN:HG3	2:OI:74:VAL:HG11	1.63	0.81
2:QF:434:GLU:HG3	58:3m:53:ARG:HH12	1.46	0.81
2:VM:288:VAL:HG21	2:VM:327:ASP:HB3	1.61	0.81
28:1V:43:TYR:O	28:1V:47:TYR:HB2	1.79	0.81
33:2G:74:ASN:HD22	33:2G:106:LEU:HD22	1.45	0.81
2:BG:254:GLU:HA	1:BH:98:GLY:HA2	1.63	0.81
1:IB:213:ARG:NH1	1:IB:214:THR:OG1	2.14	0.81
1:OL:173:PRO:HG3	1:OL:384:GLN:HE22	1.43	0.81
2:RB:365:GLY:HA2	41:2e:426:ARG:HH12	1.44	0.81
2:BI:326:LYS:NZ	1:BJ:220:PRO:O	2.12	0.81
2:FG:269:LEU:HB3	2:FG:301:MET:HE1	1.63	0.81
2:HI:319:TYR:HB3	2:HI:323:VAL:HG11	1.62	0.81
1:NH:267:MET:SD	1:NH:301:GLN:NE2	2.54	0.81
2:PC:288:VAL:HB	2:PC:327:ASP:HB3	1.61	0.81
24:1H:425:VAL:HG23	24:1H:512:SER:HB3	1.61	0.81
24:1K:328:THR:OG1	24:1K:330:LYS:NZ	2.12	0.81
26:1Q:281:LYS:HD3	26:1Q:289:PRO:HA	1.61	0.81
2:OM:316:CYS:HB3	2:OM:378:ILE:HB	1.60	0.81
1:QI:247:ASN:H	2:QJ:11:GLN:HE22	1.25	0.81
1:TF:331:LEU:HD11	2:TG:176:GLN:HG3	1.63	0.81
2:GK:217:LEU:HD11	2:GK:275:VAL:HG22	1.63	0.81
2:HM:71:GLU:HB3	2:HM:98:ASP:HB3	1.62	0.81
1:LK:126:SER:HA	14:0d:82:ARG:HD2	1.62	0.81
1:OH:326:VAL:HG22	1:OH:330:MET:HE1	1.62	0.81
2:VA:370:LYS:HD3	8:0F:143:THR:HG21	1.63	0.81
7:0D:395:ILE:HG13	7:0D:399:LYS:HZ3	1.45	0.81
27:1S:16:HIS:HA	29:1k:163:TYR:HE1	1.44	0.81
1:EL:313:ALA:HB3	1:EL:349:ILE:HG12	1.63	0.81
2:II:234:VAL:HG21	2:II:302:LEU:HD11	1.61	0.81
2:PG:71:GLU:HB3	2:PG:98:ASP:HB3	1.62	0.81
1:PJ:268:MET:HE1	1:PJ:368:ILE:HD13	1.63	0.81
2:TG:298:PRO:HB3	2:TG:307:PRO:HD2	1.63	0.81
9:0M:181:VAL:HG22	9:0M:188:MET:HG2	1.63	0.81
2:AI:288:VAL:HG21	2:AI:327:ASP:HB3	1.63	0.81
2:BA:59:GLY:HA3	24:1H:245:ARG:HH12	1.44	0.81
2:RB:195:LEU:HD11	2:RB:428:LEU:HD22	1.62	0.81
28:1g:144:THR:HG23	28:1g:147:GLY:H	1.45	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GE:71:GLU:HB3	2:GE:98:ASP:HB3	1.62	0.80
1:GF:209:ASP:OD1	1:GF:213:ARG:NH1	2.13	0.80
1:IJ:167:PHE:HA	1:IJ:200:MET:HB2	1.62	0.80
2:JB:338:LYS:HD3	2:JB:340:THR:HG22	1.60	0.80
1:QC:100:ASN:HB3	1:QC:103:LYS:HG2	1.63	0.80
2:SC:180:ALA:HB3	2:SC:183:GLU:HB2	1.62	0.80
4:XR:248:ASN:HB2	4:XR:300:VAL:HG12	1.64	0.80
2:LF:329:ASN:HD21	1:LG:175:VAL:HG22	1.46	0.80
2:AA:75:VAL:HG21	2:AA:94:SER:HB2	1.63	0.80
2:BM:71:GLU:HB3	2:BM:98:ASP:HB3	1.62	0.80
2:CH:71:GLU:HB3	2:CH:98:ASP:HB3	1.62	0.80
2:EE:71:GLU:HB3	2:EE:98:ASP:HB3	1.64	0.80
2:EG:114:ILE:HD12	2:EG:117:LEU:HD21	1.62	0.80
1:FJ:8:GLN:HG3	1:FJ:14:ASN:HA	1.63	0.80
2:HG:301:MET:HG3	2:HG:303:THR:H	1.47	0.80
2:HM:308:ARG:HH12	64:5D:110:PHE:HB2	1.45	0.80
1:LK:40:SER:OG	45:2z:80:VAL:CG2	2.28	0.80
1:RG:372:THR:HG21	1:RG:426:GLN:HB2	1.60	0.80
1:RI:257:LEU:HD21	1:RI:314:SER:HB2	1.63	0.80
2:WE:258:ASN:HD21	1:WF:179:VAL:H	1.27	0.80
38:2V:189:LYS:HD2	38:2V:190:PRO:HD2	1.62	0.80
1:B:60:VAL:HG21	1:B:86:ARG:HG3	1.64	0.80
2:D:367:ASP:HA	24:1H:734:ARG:HH12	1.44	0.80
2:GI:108:TYR:O	2:GI:112:LYS:NZ	2.15	0.80
1:TL:132:GLY:HA3	1:TL:163:ILE:O	1.81	0.80
4:XR:8:PRO:HB3	9:0O:236:MET:HG2	1.63	0.80
2:AC:209:ILE:HG12	2:AC:302:LEU:HD22	1.64	0.80
1:F:215:LEU:HB3	1:F:217:LEU:HD23	1.62	0.80
2:KL:141:VAL:HG11	2:KL:194:LEU:HD11	1.64	0.80
1:P:3:GLU:HB3	1:P:130:LEU:HA	1.63	0.80
2:PM:298:PRO:HA	2:PM:301:MET:HE3	1.61	0.80
1:QC:347:ASN:HD22	2:QD:178:SER:HB3	1.47	0.80
1:VH:207:LEU:HB3	1:VH:225:LEU:HD22	1.63	0.80
28:1g:244:ARG:HE	28:1g:254:LEU:CD2	1.94	0.80
2:EG:258:ASN:HB3	2:EG:352:LYS:HE2	1.63	0.80
1:F:328:GLU:OE2	1:F:332:ASN:ND2	2.15	0.80
1:JC:246:LEU:HA	2:JD:11:GLN:HE22	1.45	0.80
2:JD:265:ILE:HG22	2:JD:380:ASN:HD21	1.46	0.80
1:JM:66:MET:HE3	1:JM:116:VAL:HG21	1.62	0.80
2:ME:219:ILE:HG23	23:1A:136:ASN:HD21	1.46	0.80
1:PH:392:LYS:HB3	58:3m:21:ARG:HB3	1.61	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TH:178:THR:HB	1:TH:181:GLU:HG3	1.64	0.80
16:0k:724:ARG:HH21	16:0k:731:GLU:HB3	1.46	0.80
2:FG:180:ALA:HB3	2:FG:183:GLU:HB2	1.63	0.80
2:GE:199:ASP:OD2	2:GE:256:GLN:NE2	2.15	0.80
2:HI:71:GLU:HB3	2:HI:98:ASP:HB3	1.63	0.80
2:AC:298:PRO:HA	2:AC:301:MET:HE3	1.63	0.80
1:DK:347:ASN:ND2	2:DL:178:SER:OG	2.14	0.80
2:HC:175:PRO:HB3	2:HC:390:ARG:HG2	1.64	0.80
1:JG:413:SER:HG	60:3s:46:ARG:HG3	1.44	0.80
2:JL:307:PRO:HB3	2:JL:312:TYR:HE1	1.46	0.80
1:SF:391:ARG:HE	58:3m:142:MET:HE3	1.45	0.80
1:JA:416:ASN:OD1	60:3r:48:ILE:HG13	1.82	0.80
1:NH:166:THR:O	1:NH:200:MET:HB2	1.82	0.80
2:QJ:396:ASP:HB3	2:QJ:422:ARG:HH12	1.46	0.80
2:R:258:ASN:HD22	1:RA:179:VAL:HG22	1.45	0.80
2:RL:340:THR:HG23	2:RL:341:ILE:HD12	1.64	0.80
28:1a:254:LEU:HD21	28:1b:22:ILE:HD12	1.63	0.80
65:5H:192:ASN:HD21	66:5L:161:PRO:HD2	1.47	0.80
1:FB:45:GLU:HG2	1:FB:46:ARG:HG2	1.62	0.80
2:ME:174:SER:OG	2:ME:177:VAL:O	1.99	0.80
2:OC:60:LYS:NZ	41:2k:194:ARG:NH1	1.80	0.80
1:RI:163:ILE:HD11	1:RI:251:ARG:HG3	1.62	0.80
1:SH:171:PRO:O	1:SH:380:ARG:NH2	2.14	0.80
1:UL:201:CYS:SG	1:UL:301:GLN:NE2	2.55	0.80
52:3U:388:LYS:NZ	52:3U:392:ASP:OD2	2.15	0.80
1:HB:257:LEU:HD11	1:HB:314:SER:HB3	1.61	0.79
1:I:204:ASN:ND2	69:I:500:GDP:O2'	2.16	0.79
2:UC:329:ASN:HD21	1:UD:175:VAL:HG13	1.46	0.79
33:2H:82:LYS:HZ1	33:2H:94:GLN:HB3	1.47	0.79
1:BF:311:LEU:HA	1:BF:342:ILE:HD12	1.64	0.79
2:FC:319:TYR:HB3	2:FC:323:VAL:HG11	1.64	0.79
2:FE:319:TYR:HB3	2:FE:323:VAL:HG11	1.63	0.79
1:FL:35:THR:HG23	1:FL:37:GLN:HE22	1.48	0.79
1:HL:252:LYS:NZ	71:HM:501:GTP:O3G	2.14	0.79
1:JC:325:GLU:HA	1:JC:328:GLU:HG3	1.63	0.79
2:KL:27:GLU:OE2	2:KL:243:ARG:NH1	2.15	0.79
2:NA:58:ALA:HB1	41:2o:468:ARG:NH2	1.97	0.79
1:NJ:371:ASN:ND2	1:NJ:373:CYS:SG	2.55	0.79
1:SH:375:GLN:OE1	1:SH:379:ARG:NH2	2.16	0.79
1:WH:178:THR:HB	1:WH:181:GLU:HG3	1.63	0.79
1:AB:2:ARG:HD3	1:AB:240:LEU:HD22	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:6:SER:HA	1:G:134:GLN:HB3	1.65	0.79
1:I:245:GLN:HE21	2:IA:224:TYR:HB2	1.48	0.79
2:SI:319:TYR:HB3	2:SI:323:VAL:HG11	1.63	0.79
3:XD:78:MET:HG2	3:XD:165:LEU:HG	1.62	0.79
10:0R:54:LEU:HD23	47:3D:12:SER:HB2	1.64	0.79
2:AG:430:LYS:HZ1	3:XC:102:ARG:HD3	1.47	0.79
1:HH:375:GLN:NE2	1:HH:426:GLN:OE1	2.15	0.79
2:JB:108:TYR:O	2:JB:112:LYS:NZ	2.16	0.79
2:NC:58:ALA:HB2	2:OC:282:TYR:HB2	1.64	0.79
1:SB:66:MET:HE1	1:SB:151:LEU:HD22	1.62	0.79
2:UK:26:LEU:HD21	2:UK:363:VAL:HG12	1.64	0.79
2:VE:90:GLU:HB2	2:VE:121:ARG:HH12	1.48	0.79
1:WJ:324:LYS:HE2	2:WK:222:PRO:HG2	1.65	0.79
1:AD:267:MET:HA	1:AD:301:GLN:HE21	1.46	0.79
2:CH:288:VAL:HB	2:CH:327:ASP:HB3	1.65	0.79
2:GG:315:CYS:HB3	2:GG:377:MET:HE1	1.64	0.79
1:HB:313:ALA:HB3	1:HB:349:ILE:HG22	1.65	0.79
1:OB:173:PRO:HD2	1:OB:380:ARG:HE	1.48	0.79
1:QC:99:ASN:HD21	1:QC:178:THR:HG23	1.47	0.79
3:XD:81:LYS:HB3	3:XD:161:ARG:HB3	1.65	0.79
36:2Q:303:THR:HG21	36:2Q:313:TYR:H	1.46	0.79
1:BN:131:GLN:HA	1:BN:162:ARG:HH21	1.47	0.79
1:EJ:301:GLN:HE22	1:EJ:303:ALA:HB3	1.46	0.79
1:FF:60:VAL:HG11	1:FF:86:ARG:HG3	1.65	0.79
1:IH:331:LEU:HD11	2:II:177:VAL:HB	1.64	0.79
1:JA:16:ILE:HD11	1:JA:229:VAL:HB	1.63	0.79
2:JH:217:LEU:HD21	2:JH:275:VAL:HG22	1.65	0.79
2:JJ:132:LEU:HD22	2:JJ:164:LYS:HD3	1.63	0.79
1:N:347:ASN:ND2	2:NA:178:SER:OG	2.15	0.79
1:U:242:PHE:HB3	1:U:356:ILE:HD13	1.62	0.79
2:UG:392:ASP:HB3	2:UG:425:LEU:HD23	1.65	0.79
1:WH:16:ILE:HD11	1:WH:229:VAL:HB	1.64	0.79
24:1K:546:LEU:HD11	24:1K:570:MET:HE1	1.65	0.79
49:3Q:396:MET:HE1	49:3Q:404:VAL:HG21	1.64	0.79
2:AK:234:VAL:HG21	2:AK:302:LEU:HD11	1.65	0.79
1:F:267:MET:HG3	1:F:299:MET:HE2	1.63	0.79
1:FH:268:MET:HE1	1:FH:366:THR:HG23	1.63	0.79
1:GB:133:PHE:HD2	1:GB:164:MET:HE1	1.48	0.79
1:GF:200:MET:HG2	1:GF:268:MET:HE3	1.64	0.79
2:HA:322:ASP:OD1	2:HA:372:GLN:NE2	2.15	0.79
1:ID:257:LEU:HD11	1:ID:314:SER:HB3	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:RL:317:LEU:HD13	2:RL:377:MET:HE1	1.64	0.79
1:U:256:ASN:HD21	2:UA:101:ASN:HD22	1.29	0.79
2:AC:264:ARG:HH11	3:XA:115:LYS:HE2	1.46	0.79
2:BI:251:ASP:H	2:BI:254:GLU:HB2	1.45	0.79
2:GA:339:ARG:HH22	59:4O:120:PRO:HD2	1.47	0.79
1:I:324:LYS:HZ1	2:IA:222:PRO:HB2	1.48	0.79
1:I:350:LYS:HZ3	2:IA:180:ALA:HA	1.48	0.79
1:JA:153:SER:HA	1:JA:195:ASN:HD22	1.46	0.79
2:JF:180:ALA:HB3	2:JF:183:GLU:HB2	1.65	0.79
1:KG:245:GLN:HE21	2:KH:224:TYR:HB2	1.48	0.79
2:MG:71:GLU:HB3	2:MG:98:ASP:HB3	1.65	0.79
2:NC:326:LYS:NZ	1:ND:220:PRO:O	2.13	0.79
2:OC:174:SER:HB2	2:OC:207:GLU:HG3	1.65	0.79
1:WB:299:MET:HE2	1:WB:301:GLN:HG3	1.63	0.79
1:BB:301:GLN:NE2	1:BB:377:MET:SD	2.56	0.79
1:BH:350:LYS:NZ	2:BI:181:VAL:HG13	1.98	0.79
2:BK:258:ASN:HD21	2:BK:352:LYS:HD2	1.46	0.79
2:EA:311:LYS:HG2	2:EA:344:VAL:HG22	1.65	0.79
1:EF:207:LEU:HB3	1:EF:225:LEU:HD11	1.63	0.79
1:FF:346:PRO:O	2:FG:394:LYS:NZ	2.15	0.79
2:KJ:180:ALA:HB3	2:KJ:183:GLU:HB2	1.63	0.79
1:LM:267:MET:HB3	1:LM:299:MET:HE1	1.64	0.79
1:MJ:125:GLU:OE2	4:XQ:100:LYS:NZ	2.16	0.79
2:OA:180:ALA:HB3	2:OA:183:GLU:HB2	1.64	0.79
1:PL:232:VAL:HG23	1:PL:366:THR:HB	1.64	0.79
1:TL:213:ARG:HH22	1:TL:297:LYS:HB2	1.45	0.79
2:WI:75:VAL:HG21	2:WI:94:SER:HB2	1.63	0.79
16:0k:154:LEU:HD13	16:0k:201:TYR:HB2	1.65	0.79
1:AL:267:MET:HE2	1:AL:299:MET:HG2	1.64	0.78
2:EI:11:GLN:HG3	2:EI:74:VAL:HG11	1.65	0.78
2:FA:105:ARG:HH21	2:FA:110:ILE:HD13	1.48	0.78
1:HH:80:PRO:HD2	1:HH:81:TYR:H	1.48	0.78
2:LJ:269:LEU:HD22	2:LJ:303:THR:HG21	1.65	0.78
2:RB:329:ASN:HD21	1:RC:175:VAL:HG22	1.46	0.78
2:TC:298:PRO:HA	2:TC:301:MET:HE1	1.65	0.78
2:TI:372:GLN:HE22	21:0w:163:LEU:HA	1.47	0.78
1:WH:159:TYR:HB3	1:WH:162:ARG:HG3	1.65	0.78
1:BB:46:ARG:NH2	2:BC:76:ASP:OD2	2.16	0.78
1:BF:165:MET:HE3	1:BF:250:LEU:HD12	1.64	0.78
2:DJ:51:THR:HG21	2:DJ:243:ARG:HG2	1.65	0.78
1:FD:66:MET:HE1	1:FD:151:LEU:HD21	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FK:254:GLU:OE2	1:FL:99:ASN:ND2	2.16	0.78
1:ID:189:VAL:HG21	1:ID:415:MET:HE2	1.65	0.78
2:IM:364:PRO:O	38:2V:102:ASN:ND2	2.16	0.78
1:KA:172:SER:OG	1:KA:174:ARG:NH1	2.16	0.78
2:KF:337:THR:HG23	10:0R:21:MET:HE1	1.66	0.78
2:KH:180:ALA:HB3	2:KH:183:GLU:HB2	1.63	0.78
1:LE:317:PHE:HB3	1:LE:321:MET:HE3	1.63	0.78
2:PM:295:VAL:HG21	2:PM:375:VAL:HG13	1.65	0.78
16:0l:654:VAL:HG13	16:0l:659:ALA:HB3	1.66	0.78
31:1q:231:VAL:HG13	31:1q:241:ASN:HD22	1.49	0.78
2:DB:104:ALA:HB2	2:DB:413:MET:HE2	1.64	0.78
1:I:324:LYS:HE3	2:IA:222:PRO:HD2	1.65	0.78
2:IG:180:ALA:HB3	2:IG:183:GLU:HB2	1.65	0.78
2:OE:108:TYR:O	2:OE:112:LYS:NZ	2.17	0.78
1:P:239:CYS:HG	1:P:248:SER:HG	1.28	0.78
2:PI:26:LEU:HD21	2:PI:363:VAL:HG12	1.63	0.78
1:QC:257:LEU:HD11	1:QC:314:SER:HB3	1.66	0.78
2:QJ:167:LEU:HD22	2:QJ:200:VAL:HG22	1.63	0.78
2:RL:97:GLU:HG2	2:RL:105:ARG:HH22	1.47	0.78
2:RL:271:SER:HB3	2:RL:301:MET:HG3	1.66	0.78
1:TF:245:GLN:HE21	48:3L:429:THR:HG21	1.48	0.78
2:TK:211:ASP:O	2:TK:215:ARG:HB2	1.84	0.78
6:0A:257:SER:HB2	22:1y:141:ALA:HB3	1.65	0.78
27:1S:759:MET:HE3	27:1S:760:PRO:HD2	1.66	0.78
28:1g:254:LEU:HB2	28:1h:19:VAL:CG2	2.13	0.78
33:2G:83:ILE:HB	33:2G:95:PHE:HB2	1.66	0.78
65:5H:87:LYS:HA	65:5H:90:LYS:HE2	1.66	0.78
2:GE:309:HIS:NE2	59:4O:216:THR:OG1	2.14	0.78
2:II:326:LYS:NZ	1:IJ:220:PRO:O	2.17	0.78
2:LD:217:LEU:HD21	2:LD:275:VAL:HG22	1.65	0.78
1:LK:317:PHE:HB3	1:LK:321:MET:HE1	1.66	0.78
1:LO:245:GLN:HG2	29:1m:190:THR:HG21	1.65	0.78
1:WB:256:ASN:HD21	2:WC:101:ASN:HD22	1.32	0.78
2:BK:102:ASN:HB3	2:BK:105:ARG:HB2	1.66	0.78
2:CD:26:LEU:HD21	2:CD:363:VAL:HG12	1.65	0.78
2:GK:1:MET:HG3	2:GK:2:ARG:HG3	1.64	0.78
1:IF:334:GLN:HE22	1:IF:347:ASN:HA	1.46	0.78
2:JH:326:LYS:NZ	1:JI:220:PRO:HD2	1.99	0.78
2:JL:269:LEU:HB2	2:JL:303:THR:HG21	1.64	0.78
1:LM:301:GLN:NE2	1:LM:377:MET:SD	2.55	0.78
1:QA:301:GLN:NE2	1:QA:377:MET:SD	2.57	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QJ:76:ASP:HB3	22:0z:251:LEU:HD12	1.65	0.78
2:R:264:ARG:NH1	57:3f:115:GLU:OE2	2.15	0.78
2:VA:207:GLU:HG3	2:VA:304:LYS:HZ2	1.49	0.78
2:VA:208:ALA:HA	2:VA:304:LYS:HE3	1.65	0.78
1:WF:256:ASN:HD21	2:WG:101:ASN:HD22	1.29	0.78
2:GK:53:PHE:HB3	2:GK:61:HIS:HB3	1.64	0.78
2:MA:258:ASN:HD21	1:MB:99:ASN:HD22	1.31	0.78
2:MI:431:ASP:HA	2:MI:434:GLU:HG2	1.66	0.78
1:MJ:313:ALA:HB3	1:MJ:349:ILE:HG13	1.64	0.78
28:1b:33:LEU:HD23	41:2h:337:LEU:HD11	1.64	0.78
55:3b:22:GLN:HA	55:3b:25:ARG:HH12	1.49	0.78
1:BB:357:PRO:O	16:0k:545:ARG:NH2	2.17	0.78
2:FG:326:LYS:NZ	1:FH:220:PRO:O	2.17	0.78
1:HL:19:LYS:HE3	1:HL:223:GLY:HA2	1.65	0.78
2:LL:174:SER:OG	2:LL:177:VAL:O	2.02	0.78
2:R:434:GLU:HG3	57:3f:107:GLN:HG3	1.66	0.78
2:SK:339:ARG:HH22	57:3i:131:MET:HE1	1.47	0.78
6:0:161:ALA:H	33:2F:286:PRO:HD3	1.48	0.78
25:1O:164:LYS:HG2	25:1O:173:LEU:HD23	1.65	0.78
1:AD:371:ASN:ND2	1:AD:373:CYS:SG	2.56	0.78
1:AJ:210:ILE:HD11	1:AJ:298:ASN:HA	1.65	0.78
2:AM:11:GLN:HG3	2:AM:74:VAL:HG11	1.64	0.78
1:DE:35:THR:HG23	1:DE:37:GLN:HE22	1.47	0.78
1:DK:324:LYS:HD2	2:DL:222:PRO:HD2	1.64	0.78
2:FA:319:TYR:HB3	2:FA:323:VAL:HG11	1.66	0.78
2:KJ:326:LYS:HE2	1:KK:220:PRO:HD2	1.64	0.78
1:W:167:PHE:HE1	1:W:233:MET:HG2	1.48	0.78
1:WD:267:MET:HG3	1:WD:299:MET:HE2	1.63	0.78
16:0l:418:LEU:HD13	16:0l:477:TYR:HB2	1.66	0.78
1:BH:375:GLN:OE1	1:BH:379:ARG:NH2	2.17	0.78
2:FG:265:ILE:HG22	2:FG:380:ASN:HD21	1.49	0.78
1:GH:163:ILE:HG21	1:GH:250:LEU:HB3	1.66	0.78
2:HK:174:SER:OG	2:HK:177:VAL:O	2.02	0.78
1:JK:276:ARG:NH2	52:3U:211:LEU:O	2.15	0.78
2:MM:342:GLN:NE2	33:2I:166:CYS:SG	2.56	0.78
2:NM:184:PRO:HG3	2:NM:394:LYS:HG3	1.66	0.78
2:QF:71:GLU:HB3	2:QF:98:ASP:HB3	1.65	0.78
2:QH:298:PRO:HD3	59:4b:8:LEU:HG	1.66	0.78
1:UL:11:GLN:HG2	1:UL:72:THR:HG21	1.64	0.78
2:BK:271:SER:HA	2:BK:302:LEU:HD23	1.66	0.78
2:CH:40:LYS:HZ1	24:1I:256:ARG:HH11	1.32	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EB:190:HIS:HB2	1:EB:414:ASN:HD21	1.49	0.78
2:IK:326:LYS:NZ	1:IL:219:THR:HA	1.99	0.78
2:JL:430:LYS:NZ	60:3t:30:GLN:OE1	2.17	0.78
2:SA:71:GLU:HB3	2:SA:98:ASP:HB3	1.66	0.78
1:TD:256:ASN:HD22	1:TD:350:LYS:HD2	1.47	0.78
64:5B:174:THR:HG23	65:5G:173:MET:HE2	1.65	0.78
64:5C:221:ARG:HH11	64:5C:225:GLU:HG3	1.49	0.78
2:CL:46:ASP:OD1	24:1K:302:LYS:NZ	2.17	0.77
2:DH:319:TYR:HB3	2:DH:323:VAL:HG11	1.66	0.77
1:LG:187:LEU:HA	1:LG:190:HIS:CE1	2.18	0.77
1:ML:362:LYS:NZ	23:1B:262:SER:OG	2.17	0.77
2:SA:264:ARG:H	56:3d:216:ARG:HH21	1.31	0.77
2:SA:292:THR:HG21	2:SA:331:ALA:HB1	1.65	0.77
1:AH:301:GLN:NE2	1:AH:377:MET:HE1	1.99	0.77
1:BH:347:ASN:ND2	2:BI:178:SER:OG	2.17	0.77
2:LN:97:GLU:OE2	2:LN:105:ARG:NH2	2.17	0.77
1:ND:362:LYS:HD2	1:ND:363:MET:HG3	1.66	0.77
2:NI:319:TYR:HB3	2:NI:323:VAL:HG21	1.66	0.77
1:OL:217:LEU:HD13	1:OL:220:PRO:HD2	1.66	0.77
1:VD:3:GLU:HB3	1:VD:130:LEU:HA	1.66	0.77
2:DB:97:GLU:OE1	2:DB:105:ARG:NH2	2.17	0.77
1:GB:268:MET:HE1	1:GB:368:ILE:HD13	1.67	0.77
2:II:269:LEU:HD22	2:II:303:THR:HG21	1.64	0.77
2:JN:215:ARG:HH12	2:JN:299:ALA:HB1	1.49	0.77
2:L:251:ASP:H	2:L:254:GLU:HB3	1.49	0.77
1:ML:301:GLN:NE2	1:ML:303:ALA:O	2.16	0.77
1:QC:178:THR:HB	1:QC:181:GLU:HG3	1.65	0.77
2:RH:102:ASN:HB3	2:RH:105:ARG:HB2	1.66	0.77
2:SG:251:ASP:H	2:SG:254:GLU:HB3	1.48	0.77
1:T:333:VAL:CG2	61:3w:130:THR:HG22	2.02	0.77
2:TC:292:THR:HG21	2:TC:331:ALA:HB1	1.66	0.77
24:1J:460:VAL:HG22	24:1J:468:GLY:HA3	1.66	0.77
32:2C:47:LEU:HD12	32:2C:48:PRO:HD2	1.66	0.77
65:5G:189:GLU:HA	66:5K:233:ARG:HH21	1.50	0.77
1:BD:371:ASN:ND2	1:BD:373:CYS:SG	2.58	0.77
1:BH:252:LYS:HZ2	2:BI:101:ASN:HB2	1.48	0.77
1:EH:16:ILE:HD11	1:EH:229:VAL:HB	1.66	0.77
1:GF:16:ILE:HD12	1:GF:229:VAL:HG21	1.64	0.77
1:GH:102:ALA:HB2	1:GH:403:MET:HE2	1.67	0.77
2:MA:269:LEU:HD21	2:MA:305:CYS:HB3	1.67	0.77
1:O:152:ILE:HG12	1:O:164:MET:HE2	1.64	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:312:THR:HA	1:O:348:ASN:HB3	1.67	0.77
2:OM:319:TYR:HB3	2:OM:323:VAL:HG21	1.67	0.77
1:PH:392:LYS:NZ	58:3m:18:GLU:OE2	2.16	0.77
1:QG:341:PHE:HB3	1:QG:348:ASN:HD22	1.49	0.77
1:TD:198:GLU:HA	1:TD:264:HIS:HB2	1.65	0.77
1:WD:207:LEU:HB3	1:WD:225:LEU:HD22	1.67	0.77
9:0M:309:VAL:HG22	9:0M:316:VAL:HG12	1.67	0.77
45:2y:427:THR:O	45:2y:429:ARG:NH1	2.16	0.77
57:3f:83:GLU:OE1	57:3f:86:ARG:NH2	2.17	0.77
1:CI:346:PRO:O	2:CJ:394:LYS:NZ	2.18	0.77
1:CM:86:ARG:HH22	1:DM:282:ARG:HA	1.46	0.77
1:DM:207:LEU:HB3	1:DM:225:LEU:HD22	1.65	0.77
2:FI:319:TYR:HB3	2:FI:323:VAL:HG11	1.66	0.77
2:IC:298:PRO:HA	2:IC:301:MET:HE1	1.66	0.77
1:JA:416:ASN:CG	60:3r:48:ILE:CA	2.57	0.77
1:LK:390:ARG:HG3	22:0z:151:LEU:HD23	1.65	0.77
2:LL:226:ASN:ND2	2:LL:367:ASP:OD2	2.17	0.77
1:MN:211:CYS:HA	1:MN:215:LEU:HB2	1.65	0.77
1:PJ:31:ASP:OD2	1:PJ:37:GLN:NE2	2.17	0.77
1:S:16:ILE:HD11	1:S:229:VAL:HG11	1.66	0.77
2:TC:313:MET:HE3	2:TC:380:ASN:HB3	1.63	0.77
2:VM:372:GLN:NE2	8:0G:140:CYS:SG	2.57	0.77
1:WD:37:GLN:NE2	8:0F:21:ASP:OD2	2.17	0.77
16:0k:320:ASP:HB3	16:0k:324:ARG:HH12	1.49	0.77
1:BJ:232:VAL:HG13	1:BJ:268:MET:HE2	1.67	0.77
1:DG:267:MET:HE1	1:DG:301:GLN:HE21	1.49	0.77
2:EK:326:LYS:HD2	1:EL:220:PRO:HD2	1.66	0.77
1:HL:68:LEU:HB3	1:HL:96:GLY:HA2	1.67	0.77
2:JL:248:LEU:HD13	2:JL:355:ILE:HD13	1.64	0.77
1:MD:301:GLN:NE2	1:MD:303:ALA:O	2.17	0.77
2:MG:141:VAL:HG11	2:MG:194:LEU:HD11	1.66	0.77
1:MN:257:LEU:HD11	1:MN:314:SER:HB2	1.66	0.77
1:OJ:324:LYS:HD2	2:OK:210:TYR:CD2	2.19	0.77
1:PL:207:LEU:HB3	1:PL:225:LEU:HD22	1.66	0.77
1:SD:248:SER:HA	1:SD:252:LYS:HD2	1.65	0.77
1:UB:156:ARG:NH2	1:UB:197:ASP:OD1	2.16	0.77
2:UG:98:ASP:O	2:UG:105:ARG:NH1	2.18	0.77
1:WL:326:VAL:HG21	1:WL:353:ILE:HD11	1.67	0.77
16:0l:396:ALA:HB1	16:0l:461:LYS:HE2	1.66	0.77
31:1r:172:ARG:HH12	22:1x:200:VAL:HG22	1.50	0.77
2:AK:195:LEU:HD22	2:AK:264:ARG:HE	1.50	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BG:169:TYR:HB3	2:BG:204:LEU:HD11	1.67	0.77
2:DL:3:GLU:HB3	2:DL:132:LEU:HA	1.65	0.77
2:HA:282:TYR:OH	17:0m:96:GLN:NE2	2.18	0.77
1:HD:174:ARG:NH1	1:HD:205:GLU:OE2	2.18	0.77
1:I:372:THR:HG21	1:I:426:GLN:HB3	1.66	0.77
2:II:180:ALA:HB3	2:II:183:GLU:HB2	1.66	0.77
1:JA:416:ASN:ND2	60:3r:48:ILE:CA	2.47	0.77
1:JK:26:ASP:OD2	52:3U:209:ARG:NH2	2.17	0.77
1:JK:392:LYS:HG2	1:JK:395:LEU:HD23	1.66	0.77
2:K:102:ASN:HB3	2:K:105:ARG:HB2	1.66	0.77
1:KA:232:VAL:HG13	1:KA:268:MET:HE2	1.67	0.77
2:MC:41:CYS:SG	45:2y:217:ARG:NH2	2.58	0.77
1:NF:345:ILE:HG23	2:NG:398:MET:HE2	1.66	0.77
1:O:324:LYS:HA	1:O:327:ASP:HB2	1.67	0.77
1:UH:208:TYR:HE2	1:UH:225:LEU:HD11	1.50	0.77
1:VJ:49:VAL:HG11	1:VJ:241:ARG:HG2	1.67	0.77
2:EG:116:ASP:OD1	2:EG:117:LEU:N	2.18	0.77
1:EL:139:LEU:HA	1:EL:145:SER:HB3	1.65	0.77
1:FF:324:LYS:HD3	2:FG:222:PRO:HD2	1.65	0.77
1:G:58:ARG:NH2	1:H:280:GLN:O	2.18	0.77
1:GJ:91:ILE:HD12	1:GJ:116:VAL:HG22	1.66	0.77
1:I:207:LEU:HB3	1:I:225:LEU:HD22	1.67	0.77
2:IK:326:LYS:HZ1	1:IL:219:THR:HA	1.48	0.77
2:JF:298:PRO:HA	2:JF:301:MET:HE3	1.65	0.77
2:JL:377:MET:HE3	2:JL:379:ALA:HB2	1.66	0.77
1:KG:347:ASN:ND2	2:KH:178:SER:OG	2.18	0.77
1:QI:331:LEU:HD11	2:QJ:176:GLN:HG3	1.67	0.77
1:QK:324:LYS:HZ1	2:QL:210:TYR:HB3	1.50	0.77
2:QL:332:ILE:HA	2:QL:335:ILE:HD12	1.66	0.77
2:RB:108:TYR:O	2:RB:112:LYS:NZ	2.18	0.77
1:RE:253:LEU:HD21	1:RE:316:LEU:HD21	1.67	0.77
2:SK:32:PRO:HA	2:SK:86:LEU:HD12	1.66	0.77
3:XF:78:MET:HG2	3:XF:165:LEU:HG	1.67	0.77
6:0A:162:SER:H	33:2I:286:PRO:HD2	1.50	0.77
29:1j:8:PHE:HB2	44:2v:199:ASP:HB2	1.66	0.77
2:AI:326:LYS:NZ	1:AJ:220:PRO:O	2.17	0.77
2:DB:71:GLU:HB3	2:DB:98:ASP:HB3	1.67	0.77
1:EB:347:ASN:ND2	2:EC:178:SER:OG	2.17	0.77
1:ID:2:ARG:HH22	2:IE:73:THR:HG23	1.50	0.77
1:MD:200:MET:HB3	1:MD:266:PHE:HB2	1.67	0.77
1:MF:74:ASP:OD2	26:1Q:34:TYR:N	2.17	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PB:139:LEU:HB2	1:PB:170:ILE:HG22	1.67	0.77
2:UK:326:LYS:HZ1	1:UL:219:THR:HA	1.48	0.77
2:VG:97:GLU:OE1	2:VG:105:ARG:NH1	2.17	0.77
4:XM:248:ASN:HB2	4:XM:300:VAL:HG12	1.65	0.77
23:1E:340:MET:HE1	27:1S:29:LEU:HB2	1.66	0.77
28:1h:144:THR:HG23	28:1h:147:GLY:H	1.49	0.77
1:AB:2:ARG:N	1:AB:129:CYS:SG	2.58	0.77
1:AH:19:LYS:NZ	1:AH:230:ALA:HB2	2.00	0.77
1:BB:260:PHE:HB2	1:BB:263:LEU:HD13	1.67	0.77
1:DE:232:VAL:HG13	1:DE:268:MET:HE2	1.67	0.77
2:JJ:71:GLU:HB3	2:JJ:98:ASP:HB3	1.66	0.77
1:KM:268:MET:HE1	1:KM:368:ILE:HG23	1.67	0.77
1:NL:246:LEU:HA	2:NM:11:GLN:HE22	1.49	0.77
1:OB:324:LYS:NZ	2:OC:222:PRO:O	2.17	0.77
2:QD:195:LEU:HD21	2:QD:428:LEU:HD22	1.68	0.77
2:SC:108:TYR:O	2:SC:112:LYS:NZ	2.17	0.77
2:UC:271:SER:H	2:UC:377:MET:HB2	1.49	0.77
44:2v:382:TYR:OH	44:2v:403:TRP:NE1	2.16	0.77
66:5K:133:ARG:NH1	66:5K:135:VAL:O	2.18	0.77
2:AC:392:ASP:HB3	2:AC:425:LEU:HD23	1.67	0.76
2:HC:271:SER:HA	2:HC:302:LEU:HG	1.66	0.76
1:HJ:318:ARG:HB3	1:HJ:357:PRO:HA	1.67	0.76
1:LK:347:ASN:HD22	2:LL:178:SER:HB3	1.50	0.76
1:NL:207:LEU:HB3	1:NL:225:LEU:HD22	1.66	0.76
1:UD:209:ASP:OD1	1:UD:213:ARG:NH1	2.18	0.76
3:XA:48:GLU:OE2	3:XA:161:ARG:NH1	2.18	0.76
1:AH:207:LEU:HB3	1:AH:225:LEU:HD22	1.65	0.76
1:BB:204:ASN:ND2	69:BB:500:GDP:O2'	2.19	0.76
1:BH:318:ARG:HB3	1:BH:357:PRO:HA	1.66	0.76
2:FI:259:LEU:HD11	2:FI:316:CYS:HB2	1.66	0.76
1:HH:421:GLU:OE1	1:HH:424:GLN:NE2	2.17	0.76
2:J:195:LEU:HD21	2:J:264:ARG:HE	1.50	0.76
2:KJ:337:THR:OG1	18:0p:223:ASN:ND2	2.18	0.76
1:LE:293:MET:HE1	1:LE:330:MET:HE1	1.65	0.76
2:LL:178:SER:OG	2:LL:183:GLU:OE1	2.03	0.76
2:OA:259:LEU:HD21	2:OA:316:CYS:HB2	1.65	0.76
1:PL:183:TYR:HE2	1:PL:394:PHE:HB2	1.50	0.76
1:RK:323:THR:HG21	2:RL:224:TYR:CD1	2.20	0.76
1:SJ:122:LYS:HE3	61:3x:82:TYR:CZ	2.20	0.76
2:UI:102:ASN:HB3	2:UI:105:ARG:HB2	1.67	0.76
2:VA:1:MET:HG3	2:VA:2:ARG:HG3	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:WD:326:VAL:HG22	1:WD:330:MET:HE1	1.67	0.76
17:0m:108:VAL:HG12	17:0m:112:ARG:NH1	1.98	0.76
24:1H:570:MET:HE1	24:1H:577:LEU:HB3	1.67	0.76
41:2o:175:ILE:HG12	41:2o:179:ARG:HH11	1.50	0.76
2:AM:75:VAL:HG21	2:AM:94:SER:HB2	1.68	0.76
1:DI:102:ALA:HB2	1:DI:403:MET:HE2	1.65	0.76
1:FL:257:LEU:O	1:FL:370:ASN:ND2	2.17	0.76
2:GG:251:ASP:H	2:GG:254:GLU:HB2	1.51	0.76
1:ID:248:SER:HA	1:ID:252:LYS:HG3	1.66	0.76
2:II:298:PRO:HA	2:II:301:MET:HE3	1.68	0.76
1:OL:359:LYS:HE2	28:1h:139:ARG:HA	1.65	0.76
2:PM:115:VAL:HG11	2:PM:152:LEU:HD22	1.68	0.76
2:WK:326:LYS:HG3	1:WL:220:PRO:HD2	1.67	0.76
8:0F:50:GLY:C	8:0F:55:HIS:CB	2.54	0.76
8:0F:53:ASP:OD1	8:0F:55:HIS:HD2	1.61	0.76
22:0z:247:SER:HA	31:1s:242:ILE:HD11	1.66	0.76
54:3Z:423:MET:HA	54:3Z:426:MET:HE2	1.66	0.76
60:3s:124:PRO:O	60:3s:127:ARG:NH2	2.17	0.76
1:BH:350:LYS:HE3	2:BI:180:ALA:HA	1.65	0.76
2:CL:173:PRO:HB3	2:CL:183:GLU:HG3	1.66	0.76
1:FB:372:THR:HG21	1:FB:426:GLN:HB2	1.66	0.76
2:HI:370:LYS:HE2	17:0n:200:GLU:HG3	1.67	0.76
1:JE:390:ARG:HA	60:3r:135:ARG:HH12	1.50	0.76
2:KH:60:LYS:NZ	2:KH:85:GLN:O	2.17	0.76
1:LI:66:MET:HE1	1:LI:151:LEU:HD22	1.66	0.76
1:LK:390:ARG:O	22:0z:151:LEU:HD23	1.83	0.76
1:PL:200:MET:HG3	1:PL:268:MET:HE3	1.66	0.76
1:S:392:LYS:HD2	1:S:395:LEU:HD12	1.66	0.76
2:SC:195:LEU:HD21	2:SC:428:LEU:HD11	1.66	0.76
2:VK:319:TYR:HB3	2:VK:323:VAL:HG21	1.66	0.76
28:1a:256:VAL:HG22	28:1b:17:THR:HG22	1.66	0.76
29:1j:18:THR:HG23	44:2v:388:ILE:HG13	1.67	0.76
31:1r:240:TYR:HA	31:1r:243:ILE:HD12	1.67	0.76
64:5C:132:LEU:HD22	65:5H:131:LEU:HG	1.66	0.76
1:BB:324:LYS:HZ3	2:BC:222:PRO:HD2	1.50	0.76
2:BG:224:TYR:HA	2:BG:227:VAL:HG22	1.64	0.76
2:BI:91:GLN:H	2:BI:121:ARG:HH11	1.34	0.76
2:CF:11:GLN:HG3	2:CF:74:VAL:HG11	1.68	0.76
1:DG:103:LYS:HB3	1:DG:401:GLU:HG3	1.68	0.76
2:FK:75:VAL:HG21	2:FK:94:SER:HB3	1.67	0.76
2:HI:209:ILE:HG12	2:HI:302:LEU:HB2	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HK:192:HIS:ND1	2:HK:424:ASP:OD2	2.19	0.76
1:ID:163:ILE:HG21	1:ID:250:LEU:HB3	1.68	0.76
1:IL:2:ARG:HH21	2:IM:72:PRO:HD2	1.49	0.76
2:LD:27:GLU:OE1	2:LD:243:ARG:NH1	2.19	0.76
2:PG:76:ASP:OD1	2:PG:79:ARG:NH1	2.19	0.76
2:Q:174:SER:HB2	2:Q:207:GLU:HB2	1.66	0.76
1:RC:178:THR:HB	1:RC:181:GLU:HG3	1.67	0.76
2:RF:71:GLU:HB3	2:RF:98:ASP:HB3	1.67	0.76
66:5L:133:ARG:NH1	66:5L:135:VAL:O	2.18	0.76
1:AB:60:VAL:HG21	1:AB:86:ARG:HG3	1.67	0.76
1:BH:31:ASP:OD2	1:BH:37:GLN:NE2	2.14	0.76
1:BH:73:MET:HG3	1:BH:92:PHE:HB3	1.66	0.76
1:EH:347:ASN:ND2	2:EI:178:SER:OG	2.18	0.76
2:GI:75:VAL:HG21	2:GI:94:SER:HB2	1.68	0.76
2:L:197:HIS:CE1	14:0c:118:VAL:CG1	2.68	0.76
2:MC:2:ARG:HD3	2:MC:242:LEU:HB2	1.66	0.76
2:MG:45:GLU:HB2	2:MG:48:ALA:HB2	1.68	0.76
1:OF:331:LEU:HD11	2:OG:176:GLN:HB3	1.66	0.76
1:QG:65:LEU:HB3	1:QG:73:MET:HE1	1.68	0.76
1:SF:336:LYS:NZ	59:3p:142:ASN:OD1	2.18	0.76
1:TB:91:ILE:HD12	1:TB:116:VAL:HG22	1.68	0.76
1:TH:221:THR:HG22	1:TH:222:PHE:H	1.50	0.76
1:TJ:60:VAL:HG21	1:TJ:86:ARG:HG3	1.66	0.76
44:2w:250:LEU:HD13	49:3Q:312:GLU:HG2	1.66	0.76
59:3p:201:TYR:HB2	59:3p:204:GLU:HB3	1.68	0.76
1:B:311:LEU:HD12	1:B:342:ILE:HD13	1.67	0.76
2:DH:255:PHE:HA	2:DH:258:ASN:HD22	1.50	0.76
2:EC:71:GLU:HB3	2:EC:98:ASP:HB3	1.67	0.76
1:GL:134:GLN:HA	1:GL:165:MET:HB3	1.68	0.76
2:HA:116:ASP:OD1	2:HA:117:LEU:N	2.18	0.76
1:HB:256:ASN:HD22	1:HB:350:LYS:HD2	1.51	0.76
2:JF:130:THR:OG1	10:0R:36:ARG:NH2	2.17	0.76
2:K:321:GLY:HA2	2:K:359:PRO:HD3	1.68	0.76
2:LN:120:ASP:OD2	2:LN:124:LYS:NZ	2.19	0.76
1:NH:350:LYS:NZ	2:NI:180:ALA:HA	2.01	0.76
2:QJ:298:PRO:HA	2:QJ:301:MET:HE1	1.67	0.76
2:RL:27:GLU:OE1	2:RL:243:ARG:NH2	2.16	0.76
2:SA:3:GLU:HA	2:SA:51:THR:HA	1.67	0.76
1:TD:198:GLU:HB2	1:TD:266:PHE:HE1	1.50	0.76
2:UK:75:VAL:HG21	2:UK:94:SER:HB2	1.65	0.76
27:1S:498:ARG:NH2	28:4W:9:SER:O	2.18	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:1x:260:ARG:HD3	41:2h:193:SER:O	1.86	0.76
1:AJ:129:CYS:HB2	2:AK:96:LYS:HE3	1.67	0.76
2:AM:269:LEU:HD11	2:AM:305:CYS:HB3	1.67	0.76
1:CI:44:LEU:HD22	24:1J:675:LYS:HE2	1.67	0.76
2:EC:180:ALA:HB3	2:EC:183:GLU:HB2	1.66	0.76
1:FB:328:GLU:OE2	1:FB:332:ASN:ND2	2.17	0.76
2:GI:57:GLY:O	17:0n:194:GLN:NE2	2.19	0.76
1:IB:66:MET:HB3	1:IB:147:MET:HE3	1.66	0.76
2:IM:317:LEU:HD13	2:IM:377:MET:HE1	1.68	0.76
2:LL:197:HIS:CE1	14:0d:118:VAL:HG13	2.17	0.76
1:MJ:263:LEU:HD23	1:MJ:311:LEU:HD11	1.68	0.76
2:NG:75:VAL:HG21	2:NG:94:SER:HB2	1.67	0.76
1:PJ:256:ASN:HD21	2:PK:101:ASN:HD22	1.34	0.76
2:RJ:265:ILE:HG22	2:RJ:380:ASN:HD21	1.48	0.76
1:WB:164:MET:HB2	1:WB:197:ASP:H	1.49	0.76
16:0k:294:LYS:NZ	16:0k:295:VAL:O	2.19	0.76
31:1q:252:GLU:OE2	31:1q:256:ASN:ND2	2.19	0.76
22:1x:46:ARG:NH1	22:1x:102:CYS:SG	2.58	0.76
64:5C:238:LEU:HD21	65:5H:236:MET:HE1	1.67	0.76
1:AF:207:LEU:HB3	1:AF:225:LEU:HD22	1.66	0.76
2:AM:258:ASN:HD21	1:AN:178:THR:HG23	1.50	0.76
2:IK:326:LYS:HE2	1:IL:220:PRO:HD2	1.68	0.76
1:IL:58:ARG:HG2	38:2V:120:ARG:HH21	1.50	0.76
1:KI:324:LYS:NZ	2:KJ:222:PRO:O	2.19	0.76
2:MC:366:GLY:O	23:1A:193:LYS:NZ	2.19	0.76
2:SC:319:TYR:HB3	2:SC:323:VAL:HG11	1.67	0.76
2:SK:370:LYS:H	41:2c:258:GLN:HE22	1.34	0.76
2:TE:27:GLU:OE1	2:TE:243:ARG:NH2	2.18	0.76
1:V:377:MET:HG2	1:V:380:ARG:HH21	1.51	0.76
23:1E:348:ARG:HA	23:1E:351:GLU:HG2	1.67	0.76
44:2v:228:MET:HE3	44:2v:293:TYR:HA	1.68	0.76
1:CE:56:GLY:O	25:1O:762:LYS:NZ	2.19	0.76
2:DL:251:ASP:H	2:DL:254:GLU:HB3	1.50	0.76
1:FH:31:ASP:OD2	1:FH:37:GLN:NE2	2.19	0.76
1:FH:324:LYS:NZ	2:FI:222:PRO:HG2	2.00	0.76
1:I:245:GLN:NE2	2:IA:223:SER:OG	2.18	0.76
2:J:174:SER:OG	2:J:177:VAL:O	2.03	0.76
2:KL:42:ILE:HB	49:3Q:549:ARG:HG2	1.68	0.76
1:LC:207:LEU:HB3	1:LC:225:LEU:HD22	1.66	0.76
1:M:267:MET:HB2	1:M:301:GLN:HG2	1.67	0.76
2:UC:195:LEU:HD21	2:UC:264:ARG:HE	1.49	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VE:2:ARG:NH1	2:VE:251:ASP:OD1	2.19	0.76
1:VH:246:LEU:HA	2:VI:11:GLN:HE22	1.51	0.76
9:0N:110:LYS:NZ	9:0N:112:GLN:OE1	2.19	0.76
9:0O:307:TYR:HE1	9:0O:318:LEU:HD13	1.50	0.76
20:0u:155:PHE:N	20:0u:179:SER:O	2.19	0.76
1:E:99:ASN:HD21	1:E:178:THR:HG23	1.51	0.75
1:FH:375:GLN:HE22	1:FH:423:GLN:HE21	1.32	0.75
1:GD:320:ARG:NH1	36:2Q:276:PRO:O	2.18	0.75
2:IG:11:GLN:HG3	2:IG:74:VAL:HG11	1.68	0.75
2:KF:90:GLU:OE1	2:LF:280:LYS:NZ	2.19	0.75
1:LK:390:ARG:HG3	22:0z:151:LEU:CD2	2.16	0.75
1:MJ:251:ARG:NH2	2:MK:105:ARG:HE	1.83	0.75
1:MJ:320:ARG:HB3	44:2w:9:LEU:HA	1.67	0.75
1:ND:324:LYS:NZ	2:NE:213:THR:OG1	2.19	0.75
1:OD:346:PRO:O	2:OE:394:LYS:NZ	2.19	0.75
2:PA:326:LYS:HZ3	1:PB:220:PRO:HD2	1.51	0.75
1:RI:235:GLY:HA3	1:RI:366:THR:HG21	1.68	0.75
1:WD:178:THR:HB	1:WD:181:GLU:HG3	1.66	0.75
2:DJ:180:ALA:HB3	2:DJ:183:GLU:HB2	1.68	0.75
1:EF:347:ASN:ND2	2:EG:178:SER:OG	2.18	0.75
1:EH:375:GLN:OE1	1:EH:379:ARG:NH1	2.18	0.75
2:J:105:ARG:HG2	2:J:411:GLU:HG2	1.68	0.75
1:JG:413:SER:OG	60:3s:46:ARG:NE	2.20	0.75
2:JH:195:LEU:HD21	2:JH:428:LEU:HD22	1.68	0.75
1:M:207:LEU:HD21	1:M:300:MET:HE3	1.66	0.75
1:OB:320:ARG:NH2	28:1g:184:ILE:O	2.18	0.75
2:QJ:174:SER:HB3	2:QJ:207:GLU:HG3	1.68	0.75
1:T:152:ILE:HG23	1:T:164:MET:HE2	1.68	0.75
1:AB:44:LEU:HD13	16:0k:559:HIS:HB3	1.69	0.75
1:AF:247:ASN:H	2:AG:11:GLN:HE22	1.34	0.75
1:AN:326:VAL:HG11	1:AN:353:ILE:HD11	1.69	0.75
1:CE:178:THR:HG22	1:CE:180:VAL:H	1.51	0.75
2:DJ:319:TYR:HB3	2:DJ:323:VAL:HG11	1.68	0.75
2:EA:174:SER:OG	2:EA:177:VAL:O	2.03	0.75
1:FL:267:MET:HA	1:FL:301:GLN:HE22	1.51	0.75
1:G:46:ARG:HH21	2:GA:76:ASP:HB2	1.52	0.75
2:GA:50:ASN:O	2:GA:64:ARG:NH1	2.19	0.75
1:HJ:262:ARG:HH12	1:HJ:421:GLU:HG3	1.51	0.75
2:HM:81:GLY:O	2:HM:84:ARG:NH1	2.18	0.75
2:L:197:HIS:CE1	14:0c:118:VAL:HG13	2.21	0.75
2:MC:265:ILE:HG22	2:MC:380:ASN:HD21	1.52	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MH:253:LEU:HD21	1:MH:316:LEU:HD11	1.68	0.75
1:NH:16:ILE:HD11	1:NH:229:VAL:HB	1.66	0.75
1:PD:130:LEU:HD23	1:PD:162:ARG:HG3	1.67	0.75
1:PH:245:GLN:O	2:PI:11:GLN:NE2	2.19	0.75
1:SF:235:GLY:HA3	1:SF:366:THR:HG21	1.68	0.75
2:TE:75:VAL:HG21	2:TE:94:SER:HB2	1.68	0.75
1:TJ:336:LYS:HB2	61:3x:81:VAL:HG21	1.66	0.75
2:VC:259:LEU:O	2:VC:380:ASN:ND2	2.18	0.75
2:WA:254:GLU:O	2:WA:258:ASN:ND2	2.20	0.75
1:FF:334:GLN:HE21	1:FF:349:ILE:HG12	1.52	0.75
1:HL:339:SER:H	64:5D:91:LYS:HE3	1.50	0.75
2:IE:319:TYR:HB3	2:IE:323:VAL:HG21	1.68	0.75
1:KI:60:VAL:HG11	1:KI:86:ARG:HG3	1.68	0.75
1:LE:404:ASP:OD1	1:LE:405:GLU:N	2.20	0.75
1:MJ:253:LEU:HD21	1:MJ:316:LEU:HD21	1.67	0.75
2:NA:352:LYS:HZ3	1:NB:178:THR:HG23	1.52	0.75
2:PG:27:GLU:OE2	2:PG:243:ARG:NH1	2.20	0.75
1:QA:345:ILE:HG23	1:QA:348:ASN:HD21	1.52	0.75
2:QD:2:ARG:NH1	2:QD:242:LEU:O	2.20	0.75
1:QG:203:ASP:HB2	1:QG:301:GLN:HG2	1.68	0.75
2:RD:27:GLU:OE1	2:RD:243:ARG:NH2	2.18	0.75
1:SJ:102:ALA:HB2	1:SJ:403:MET:HE2	1.68	0.75
1:UF:235:GLY:HA3	1:UF:366:THR:HG21	1.69	0.75
9:0N:225:CYS:HB3	9:0N:236:MET:HB2	1.68	0.75
1:AF:159:TYR:HB3	1:AF:162:ARG:HG3	1.69	0.75
1:BL:293:MET:HE1	1:BL:330:MET:HE1	1.67	0.75
1:JA:322:SER:OG	1:JA:325:GLU:OE1	2.03	0.75
2:KH:128:ASN:OD1	2:LH:285:GLN:NE2	2.20	0.75
2:LJ:298:PRO:HA	2:LJ:301:MET:HE1	1.67	0.75
2:LL:251:ASP:H	2:LL:254:GLU:HB3	1.51	0.75
1:LM:245:GLN:NE2	2:LN:223:SER:OG	2.19	0.75
1:RK:359:LYS:NZ	28:1Y:142:TYR:OH	2.19	0.75
1:VB:267:MET:HB3	1:VB:374:ILE:HD11	1.68	0.75
5:XN:133:ARG:NH1	5:XN:179:GLU:OE2	2.19	0.75
6:0A:79:ILE:HD13	6:0A:89:LYS:HE2	1.68	0.75
9:0O:194:ASN:HD21	9:0O:233:VAL:HG12	1.51	0.75
17:0m:23:GLU:OE2	17:0m:27:GLN:NE2	2.19	0.75
24:1J:698:VAL:HA	24:1J:702:LEU:HD12	1.68	0.75
41:2e:221:ARG:HA	41:2e:225:LYS:HB2	1.68	0.75
41:2e:366:GLU:HG3	41:2e:369:ARG:HH12	1.51	0.75
54:3a:137:VAL:HG13	54:3a:138:LEU:HD12	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AG:195:LEU:HD22	2:AG:264:ARG:HE	1.51	0.75
2:BM:174:SER:HB3	2:BM:207:GLU:HG3	1.68	0.75
1:FB:152:ILE:HA	1:FB:164:MET:HE1	1.68	0.75
1:FH:362:LYS:HD2	1:FH:363:MET:HG3	1.67	0.75
2:HC:319:TYR:HB3	2:HC:323:VAL:HG11	1.67	0.75
1:KC:256:ASN:HD22	2:KD:181:VAL:HG22	1.50	0.75
1:LI:291:GLN:HE21	35:2O:80:ARG:HH12	1.35	0.75
1:NL:103:LYS:HB3	1:NL:401:GLU:HG2	1.69	0.75
2:OA:174:SER:OG	2:OA:207:GLU:OE1	2.04	0.75
1:P:267:MET:HB2	1:P:299:MET:HE2	1.69	0.75
2:SE:225:THR:HG21	28:1U:190:GLU:HG2	1.67	0.75
44:2w:228:MET:HE3	44:2w:293:TYR:HA	1.67	0.75
64:5C:239:ALA:HA	64:5C:242:HIS:CE1	2.22	0.75
2:AG:11:GLN:HG3	2:AG:74:VAL:HG11	1.68	0.75
2:AK:265:ILE:HG21	2:AK:313:MET:HE1	1.66	0.75
1:DK:215:LEU:HB3	1:DK:217:LEU:HD23	1.67	0.75
1:EH:385:PHE:HE2	1:EH:412:GLU:HG3	1.52	0.75
1:EL:183:TYR:OH	1:EL:393:ALA:O	2.02	0.75
2:HA:115:VAL:HG21	2:HA:152:LEU:HD22	1.68	0.75
1:HJ:178:THR:HG22	1:HJ:180:VAL:H	1.51	0.75
1:HL:186:THR:HG22	1:HL:415:MET:HE1	1.67	0.75
1:KC:173:PRO:HA	1:KC:176:SER:HB3	1.67	0.75
2:KD:1:MET:HG2	2:KD:2:ARG:H	1.51	0.75
2:LF:56:THR:HG23	2:LF:58:ALA:H	1.51	0.75
1:OD:209:ASP:OD1	1:OD:213:ARG:NH1	2.20	0.75
2:OG:296:PHE:CD2	2:OG:335:ILE:HD13	2.22	0.75
2:QD:301:MET:HE1	2:QD:307:PRO:HG3	1.69	0.75
2:RD:196:GLU:HG3	55:3b:132:LYS:HD3	1.68	0.75
2:SI:71:GLU:HB3	2:SI:98:ASP:HB3	1.68	0.75
1:U:322:SER:OG	2:UA:222:PRO:O	2.05	0.75
64:5D:77:CYS:HA	64:5D:80:MET:HB2	1.67	0.75
1:BD:232:VAL:HG21	1:BD:300:MET:HE1	1.67	0.75
2:DL:377:MET:HE2	2:DL:379:ALA:HB2	1.68	0.75
1:JE:207:LEU:HB3	1:JE:225:LEU:HD22	1.69	0.75
1:JM:14:ASN:HD22	1:JM:65:LEU:HD12	1.52	0.75
2:LB:308:ARG:NH2	35:2N:167:GLU:OE1	2.20	0.75
2:ME:426:ALA:HA	2:ME:429:GLU:HG3	1.68	0.75
2:RB:119:LEU:HD12	2:RB:156:ARG:HB3	1.69	0.75
1:SF:132:GLY:HA3	1:SF:163:ILE:HG22	1.68	0.75
1:UJ:87:PRO:HD3	1:VJ:281:TYR:HD2	1.52	0.75
1:CC:134:GLN:HB3	1:CC:165:MET:HE3	1.66	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DG:324:LYS:HZ3	2:DH:210:TYR:HB3	1.52	0.75
1:FF:3:GLU:OE1	1:FF:62:ARG:NH1	2.20	0.75
2:FG:214:ARG:NH1	2:FG:220:GLU:OE1	2.20	0.75
2:GG:319:TYR:HB3	2:GG:323:VAL:HG11	1.67	0.75
2:IG:71:GLU:HB3	2:IG:98:ASP:HB3	1.67	0.75
1:IL:268:MET:HE1	1:IL:368:ILE:HG23	1.68	0.75
1:JG:413:SER:OG	60:3s:46:ARG:HG2	1.85	0.75
2:JN:180:ALA:HB3	2:JN:183:GLU:HB2	1.69	0.75
2:MK:174:SER:HB2	2:MK:207:GLU:HB2	1.69	0.75
6:0A:257:SER:CB	22:1y:141:ALA:CB	2.64	0.75
10:0R:266:ASN:OD1	10:0R:270:LYS:NZ	2.19	0.75
26:1Q:239:ARG:HB3	26:1Q:243:ARG:HH12	1.50	0.75
28:1b:5:HIS:NE2	41:2h:355:ASN:OD1	2.20	0.75
37:2S:164:PHE:H	54:3Z:354:LEU:HD22	1.52	0.75
1:DI:347:ASN:ND2	2:DJ:178:SER:OG	2.19	0.74
1:FL:392:LYS:HD2	1:FL:395:LEU:HD12	1.67	0.74
1:HH:156:ARG:NH2	1:HH:197:ASP:OD1	2.19	0.74
2:II:51:THR:HG21	2:II:243:ARG:HG2	1.66	0.74
2:II:238:LEU:HD13	2:II:318:MET:HE3	1.68	0.74
1:OL:48:ASN:O	1:OL:62:ARG:NH1	2.21	0.74
1:PD:2:ARG:N	1:PD:129:CYS:SG	2.59	0.74
1:SJ:372:THR:HG21	1:SJ:426:GLN:HB2	1.66	0.74
2:SK:292:THR:HG21	2:SK:331:ALA:HB1	1.69	0.74
2:TG:431:ASP:OD1	57:3g:189:ARG:NH1	2.20	0.74
1:W:200:MET:HE1	1:W:368:ILE:HD12	1.68	0.74
41:2h:320:LYS:O	41:2h:324:GLN:NE2	2.20	0.74
1:DG:328:GLU:OE2	1:DG:332:ASN:ND2	2.19	0.74
1:H:242:PHE:HB3	1:H:356:ILE:HD13	1.69	0.74
2:IC:372:GLN:NE2	7:0D:23:ILE:O	2.20	0.74
2:JN:298:PRO:HB3	2:JN:307:PRO:HD2	1.68	0.74
2:NC:195:LEU:HD21	2:NC:264:ARG:HE	1.52	0.74
1:O:5:VAL:HG23	1:O:62:ARG:HG2	1.68	0.74
2:OM:216:SER:OG	2:OM:275:VAL:O	2.05	0.74
1:TB:404:ASP:OD1	1:TB:405:GLU:N	2.20	0.74
1:U:65:LEU:HB3	1:U:73:MET:HE1	1.69	0.74
2:UA:238:LEU:HD12	2:UA:318:MET:HE2	1.68	0.74
2:UC:120:ASP:OD2	2:UC:124:LYS:NZ	2.20	0.74
1:UF:245:GLN:HE21	34:2L:139:VAL:HG11	1.52	0.74
1:UL:204:ASN:HA	1:UL:207:LEU:HD12	1.68	0.74
27:1S:717:GLY:H	27:1S:721:GLU:HG3	1.50	0.74
1:EH:267:MET:O	1:EH:268:MET:HE2	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FI:258:ASN:HD21	1:FJ:99:ASN:HD22	1.30	0.74
1:GF:323:THR:HA	1:GF:326:VAL:HG12	1.69	0.74
1:GL:301:GLN:HE22	1:GL:303:ALA:HB3	1.52	0.74
2:KH:60:LYS:HG3	23:1E:183:ARG:NH2	2.00	0.74
2:LF:85:GLN:O	2:ME:283:HIS:HE1	1.69	0.74
1:MB:324:LYS:HG3	2:MC:221:ARG:HA	1.69	0.74
2:MM:307:PRO:HB3	2:MM:312:TYR:HE1	1.52	0.74
2:NG:90:GLU:HG2	2:NG:91:GLN:HG3	1.69	0.74
2:PK:105:ARG:HH21	2:PK:110:ILE:HD13	1.53	0.74
1:RK:217:LEU:HB2	1:RK:220:PRO:HG3	1.69	0.74
28:1b:253:LYS:HE2	28:1c:16:ARG:HG2	1.69	0.74
57:3i:60:ASP:HB2	57:3i:64:ARG:HH12	1.52	0.74
1:BH:91:ILE:HD11	1:BH:119:VAL:HG11	1.69	0.74
1:CG:346:PRO:O	2:CH:394:LYS:NZ	2.20	0.74
2:D:217:LEU:HD21	2:D:275:VAL:HG22	1.68	0.74
2:DB:251:ASP:H	2:DB:254:GLU:HB3	1.52	0.74
2:HE:108:TYR:O	2:HE:112:LYS:NZ	2.21	0.74
2:HK:71:GLU:HB2	2:HK:98:ASP:HB3	1.70	0.74
1:LK:202:ILE:HD12	1:LK:300:MET:HE2	1.70	0.74
1:LM:207:LEU:HD13	1:LM:225:LEU:HB3	1.68	0.74
2:OE:209:ILE:HG12	2:OE:302:LEU:HD12	1.68	0.74
2:PK:88:ASN:HB3	2:PK:91:GLN:NE2	2.02	0.74
2:QB:225:THR:OG1	28:1b:46:GLU:OE2	2.05	0.74
2:TK:258:ASN:HD21	1:TL:178:THR:HA	1.52	0.74
2:VG:195:LEU:HD11	2:VG:428:LEU:HD13	1.69	0.74
23:1B:336:MET:HG3	23:1B:339:ARG:HD2	1.69	0.74
38:2U:150:ARG:HE	38:2U:151:PRO:HD2	1.53	0.74
41:2l:311:GLN:OE1	41:2l:315:ARG:NH1	2.19	0.74
2:BG:108:TYR:O	2:BG:112:LYS:NZ	2.18	0.74
1:CK:202:ILE:HD12	1:CK:300:MET:HE2	1.69	0.74
1:DA:139:LEU:HD12	1:DA:170:ILE:HG22	1.69	0.74
1:GD:247:ASN:HD21	2:GE:73:THR:HG21	1.51	0.74
1:GF:207:LEU:HD21	1:GF:300:MET:HE3	1.67	0.74
2:HI:90:GLU:HB2	2:HI:121:ARG:HE	1.53	0.74
2:HK:319:TYR:HB3	2:HK:323:VAL:HG21	1.69	0.74
1:IJ:304:ASP:OD2	1:IJ:306:ARG:NH1	2.20	0.74
2:KD:90:GLU:OE1	2:LD:280:LYS:NZ	2.20	0.74
2:KH:204:LEU:HD22	2:KH:231:ILE:HD12	1.69	0.74
2:OC:35:SER:HB3	41:2k:190:TRP:CZ3	2.23	0.74
2:PK:76:ASP:OD1	2:PK:79:ARG:NH1	2.21	0.74
2:SA:263:PRO:O	2:SA:266:HIS:ND1	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SB:83:GLN:O	1:TB:281:TYR:OH	2.06	0.74
1:V:169:VAL:HA	1:V:202:ILE:HB	1.69	0.74
2:VG:340:THR:OG1	62:4B:269:MET:O	2.02	0.74
1:WB:330:MET:HG2	1:WB:349:ILE:HG21	1.69	0.74
1:WL:347:ASN:ND2	2:WM:178:SER:OG	2.19	0.74
8:0G:138:ALA:HB1	8:0H:467:VAL:HG11	1.69	0.74
9:0N:65:SER:HB3	9:0N:81:VAL:HG13	1.67	0.74
26:1Q:82:MET:HB2	26:1Q:117:ALA:HB2	1.69	0.74
27:1S:278:ASP:HA	27:1S:281:LYS:HE3	1.69	0.74
1:BF:60:VAL:HG11	1:BF:86:ARG:HG3	1.69	0.74
1:HH:129:CYS:HB3	2:HI:96:LYS:HE3	1.70	0.74
1:JA:416:ASN:OD1	60:3r:48:ILE:CB	2.35	0.74
2:JD:180:ALA:HB3	2:JD:183:GLU:HB2	1.68	0.74
2:LH:236:SER:HB2	2:LH:243:ARG:HH22	1.52	0.74
2:MM:271:SER:HB3	2:MM:301:MET:HG2	1.68	0.74
1:N:403:MET:HE2	1:N:408:PHE:CE1	2.22	0.74
2:OC:56:THR:O	41:2k:186:ARG:NH2	2.21	0.74
1:OF:346:PRO:HD2	2:OG:398:MET:HE3	1.69	0.74
1:PD:49:VAL:HG11	1:PD:241:ARG:HG2	1.68	0.74
2:PM:226:ASN:ND2	2:PM:367:ASP:OD2	2.20	0.74
1:QE:332:ASN:OD1	1:QE:336:LYS:NZ	2.20	0.74
1:RI:245:GLN:HE21	28:1Y:113:THR:HG21	1.50	0.74
2:UI:116:ASP:OD1	2:UI:117:LEU:N	2.21	0.74
1:WH:252:LYS:NZ	71:WI:501:GTP:O3G	2.17	0.74
4:XR:162:PHE:HB3	4:XR:181:CYS:HB2	1.67	0.74
8:0F:50:GLY:O	8:0F:55:HIS:HB2	1.87	0.74
54:3Z:275:LEU:HD21	54:3Z:286:LEU:HD11	1.70	0.74
2:AA:264:ARG:HE	3:X:115:LYS:HZ1	1.34	0.74
1:GF:80:PRO:HA	10:0R:129:ARG:HH21	1.51	0.74
2:JH:180:ALA:HB3	2:JH:183:GLU:HB2	1.69	0.74
1:KI:207:LEU:HD13	1:KI:225:LEU:HB3	1.70	0.74
2:LJ:434:GLU:CD	22:0z:147:THR:OG1	2.31	0.74
2:NE:316:CYS:HB3	2:NE:378:ILE:HB	1.70	0.74
2:PE:119:LEU:HD11	2:PE:156:ARG:HB3	1.69	0.74
1:PH:322:SER:OG	1:PH:325:GLU:OE1	2.04	0.74
2:SE:265:ILE:HG22	2:SE:380:ASN:HD21	1.50	0.74
2:SK:71:GLU:HB3	2:SK:98:ASP:HB3	1.69	0.74
1:T:202:ILE:HD12	1:T:300:MET:HE2	1.70	0.74
1:VJ:207:LEU:HB3	1:VJ:225:LEU:HD22	1.69	0.74
2:VM:90:GLU:HB2	2:VM:121:ARG:HH12	1.51	0.74
27:1S:510:PHE:HZ	27:1S:563:LEU:HD11	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:1l:72:LYS:HD2	44:2w:349:ILE:HD11	1.70	0.74
31:1t:255:LEU:HD13	31:1t:258:LEU:HD21	1.68	0.74
22:1x:183:GLU:OE2	48:3G:111:ASN:ND2	2.21	0.74
22:1x:258:LEU:HA	22:1x:261:ARG:HG3	1.70	0.74
44:2v:354:LYS:NZ	49:3P:415:GLY:O	2.21	0.74
1:GD:328:GLU:OE2	1:GD:332:ASN:ND2	2.20	0.74
1:IF:2:ARG:N	1:IF:129:CYS:O	2.21	0.74
1:IL:345:ILE:O	1:IL:348:ASN:ND2	2.20	0.74
1:JE:256:ASN:HD21	2:JF:101:ASN:HD21	1.33	0.74
1:KC:100:ASN:HB3	1:KC:103:LYS:HG2	1.68	0.74
1:KC:207:LEU:HB3	1:KC:225:LEU:HG	1.70	0.74
1:LE:291:GLN:NE2	35:2N:216:ALA:O	2.19	0.74
2:NM:238:LEU:HA	2:NM:318:MET:HE1	1.70	0.74
2:PC:319:TYR:HB3	2:PC:323:VAL:HG11	1.69	0.74
2:PK:338:LYS:NZ	2:PK:340:THR:OG1	2.20	0.74
2:TI:75:VAL:HG21	2:TI:94:SER:HB2	1.69	0.74
1:VL:204:ASN:ND2	69:VL:500:GDP:O2'	2.20	0.74
1:AB:417:ASP:OD1	4:XM:204:LYS:NZ	2.20	0.74
1:BB:253:LEU:HD21	1:BB:316:LEU:HD11	1.70	0.74
1:BL:257:LEU:HD11	1:BL:314:SER:HB3	1.70	0.74
2:C:75:VAL:HG21	2:C:94:SER:HB2	1.70	0.74
2:EG:319:TYR:HB3	2:EG:323:VAL:HG11	1.69	0.74
1:EH:19:LYS:NZ	1:EH:223:GLY:O	2.20	0.74
2:FE:217:LEU:HD21	2:FE:275:VAL:HG22	1.69	0.74
1:IL:324:LYS:HE3	2:IM:210:TYR:HA	1.69	0.74
1:JC:139:LEU:HA	1:JC:145:SER:HB3	1.70	0.74
2:JJ:270:THR:HG23	2:JJ:302:LEU:HB3	1.70	0.74
1:JK:249:ASP:H	1:JK:252:LYS:HB3	1.52	0.74
1:NJ:16:ILE:HD11	1:NJ:229:VAL:HB	1.70	0.74
2:QL:65:CYS:SG	2:QL:91:GLN:NE2	2.61	0.74
2:RH:174:SER:OG	2:RH:177:VAL:O	2.06	0.74
2:RL:98:ASP:O	2:RL:105:ARG:NH2	2.20	0.74
1:SB:215:LEU:HD11	1:SB:273:LEU:HD12	1.70	0.74
1:SJ:301:GLN:NE2	1:SJ:377:MET:SD	2.60	0.74
1:VF:245:GLN:O	2:VG:11:GLN:NE2	2.21	0.74
16:0k:927:THR:HG22	16:0k:930:GLN:HE21	1.53	0.74
1:E:267:MET:SD	1:E:301:GLN:NE2	2.61	0.74
2:FK:180:ALA:HB3	2:FK:183:GLU:HB2	1.70	0.74
1:H:236:VAL:HG23	1:H:237:THR:HG23	1.70	0.74
1:HF:16:ILE:HD11	1:HF:229:VAL:HB	1.70	0.74
2:HM:195:LEU:HD11	2:HM:428:LEU:HD21	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IL:395:LEU:HD11	1:IL:408:PHE:CE2	2.23	0.74
2:JL:133:GLN:HE22	2:JL:251:ASP:HB3	1.53	0.74
1:MN:165:MET:HE1	1:MN:236:VAL:HG21	1.68	0.74
1:NL:114:ASP:OD1	1:NL:115:SER:N	2.21	0.74
2:OE:90:GLU:OE1	2:PE:280:LYS:NZ	2.20	0.74
1:P:252:LYS:HA	1:P:252:LYS:HE3	1.68	0.74
1:P:375:GLN:HB2	1:P:419:VAL:HG13	1.70	0.74
2:PA:1:MET:HG3	2:PA:2:ARG:HG3	1.68	0.74
2:QB:77:GLU:OE1	28:1b:43:TYR:CB	2.34	0.74
1:RG:252:LYS:NZ	71:RH:501:GTP:O1G	2.21	0.74
1:SD:286:VAL:HG11	1:SD:325:GLU:HG3	1.69	0.74
2:TA:265:ILE:HG22	2:TA:380:ASN:HD21	1.52	0.74
1:VF:129:CYS:HB2	2:VG:96:LYS:HE2	1.70	0.74
2:VM:102:ASN:HB3	2:VM:105:ARG:HB2	1.68	0.74
9:0O:309:VAL:HG12	9:0O:316:VAL:HG12	1.69	0.74
28:1b:12:TYR:HE2	28:1b:18:CYS:HB2	1.53	0.74
1:BH:330:MET:HB3	1:BH:349:ILE:HG21	1.69	0.73
1:EH:324:LYS:HZ2	2:EI:222:PRO:HD2	1.53	0.73
2:FG:338:LYS:HZ3	63:4I:248:GLY:H	1.33	0.73
1:GJ:322:SER:OG	2:GK:222:PRO:O	2.06	0.73
2:HM:97:GLU:OE1	2:HM:105:ARG:NH2	2.21	0.73
1:JG:87:PRO:HD3	1:KG:281:TYR:HD2	1.52	0.73
2:JL:11:GLN:NE2	71:JL:501:GTP:O2A	2.20	0.73
1:LI:83:GLN:O	1:MH:281:TYR:OH	2.05	0.73
2:NG:178:SER:OG	2:NG:183:GLU:OE1	2.06	0.73
2:TA:320:ARG:HH21	2:TA:360:PRO:HA	1.53	0.73
1:TL:291:GLN:HG3	61:3x:130:THR:HG1	1.50	0.73
1:WF:324:LYS:NZ	2:WG:210:TYR:HB3	2.02	0.73
23:1E:321:LEU:HD21	29:1k:140:PRO:HB2	1.68	0.73
44:2w:197:TYR:CD2	44:2w:213:MET:HG2	2.23	0.73
2:CB:11:GLN:HG3	2:CB:74:VAL:HG11	1.69	0.73
1:CE:320:ARG:HH22	16:0k:175:PRO:HG3	1.52	0.73
1:F:232:VAL:HG11	1:F:268:MET:HE2	1.68	0.73
1:JA:416:ASN:HD21	60:3r:48:ILE:HA	1.47	0.73
1:JC:22:GLU:OE1	15:0f:77:ARG:NH2	2.21	0.73
1:JK:361:LEU:HD11	52:3U:213:PHE:HB3	1.68	0.73
1:KK:37:GLN:NE2	49:3Q:223:SER:OG	2.19	0.73
1:KK:274:THR:OG1	1:KK:282:ARG:NH1	2.20	0.73
1:LI:361:LEU:HD21	23:1E:162:GLN:HE21	1.52	0.73
2:LN:192:HIS:HE1	2:LN:421:ALA:HA	1.54	0.73
1:RK:359:LYS:HE3	28:1Y:139:ARG:HA	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VL:35:THR:OG1	1:VL:37:GLN:NE2	2.22	0.73
3:XC:81:LYS:HB3	3:XC:161:ARG:HB2	1.68	0.73
8:0G:237:GLU:OE2	8:0G:240:ARG:NH2	2.21	0.73
1:AH:410:GLU:OE1	5:XP:251:GLN:NE2	2.21	0.73
2:BA:258:ASN:HB2	1:BB:179:VAL:HG22	1.68	0.73
1:CM:10:GLY:HA2	1:CM:143:THR:HG23	1.71	0.73
1:DI:91:ILE:HD12	1:DI:116:VAL:HG22	1.69	0.73
2:HG:271:SER:HA	2:HG:302:LEU:HG	1.70	0.73
1:HL:169:VAL:HA	1:HL:202:ILE:HB	1.68	0.73
2:HM:195:LEU:HD21	2:HM:428:LEU:HD11	1.69	0.73
2:HM:319:TYR:HB3	2:HM:323:VAL:HG11	1.70	0.73
2:OK:274:PRO:HD3	2:OK:291:ILE:HD11	1.70	0.73
2:RB:431:ASP:OD2	56:3d:172:ARG:NH1	2.20	0.73
2:RF:123:ARG:NH2	59:3p:116:GLU:O	2.22	0.73
1:T:48:ASN:O	1:T:62:ARG:NH2	2.21	0.73
2:TI:372:GLN:NE2	21:0w:163:LEU:HA	2.02	0.73
3:XE:115:LYS:HD2	3:XE:116:PRO:HD2	1.68	0.73
7:0D:19:ARG:HH22	38:2U:215:LEU:HD13	1.53	0.73
15:0f:209:ARG:NH1	20:0t:150:CYS:SG	2.62	0.73
20:0t:157:MET:HE3	20:0t:179:SER:HB3	1.70	0.73
2:BE:26:LEU:HD21	2:BE:363:VAL:HG12	1.71	0.73
1:BF:257:LEU:HD11	1:BF:314:SER:HB2	1.70	0.73
2:BG:11:GLN:HG3	2:BG:74:VAL:HG11	1.71	0.73
1:CK:306:ARG:NE	1:CK:306:ARG:HA	2.03	0.73
1:EF:234:SER:O	1:EF:241:ARG:NH2	2.21	0.73
2:EG:155:GLU:HG2	2:EG:197:HIS:HD2	1.54	0.73
1:EH:345:ILE:O	1:EH:348:ASN:ND2	2.21	0.73
2:EI:51:THR:HG21	2:EI:243:ARG:HG2	1.69	0.73
2:FE:265:ILE:HG22	2:FE:380:ASN:HD21	1.53	0.73
1:G:313:ALA:HB3	1:G:349:ILE:HG13	1.70	0.73
1:GH:35:THR:OG1	1:GH:37:GLN:NE2	2.20	0.73
2:HG:195:LEU:HD11	2:HG:428:LEU:HD11	1.69	0.73
1:HJ:173:PRO:HA	1:HJ:176:SER:HB2	1.71	0.73
1:IJ:191:GLN:O	1:IJ:195:ASN:HB2	1.86	0.73
2:JH:219:ILE:HB	2:JH:222:PRO:HG3	1.71	0.73
1:JM:2:ARG:HH22	2:JN:71:GLU:HG2	1.53	0.73
1:KC:134:GLN:HA	1:KC:165:MET:HB3	1.71	0.73
1:N:242:PHE:HB3	1:N:356:ILE:HD13	1.70	0.73
2:RB:180:ALA:HB3	2:RB:183:GLU:HB2	1.70	0.73
2:TG:102:ASN:HB3	2:TG:105:ARG:HB2	1.70	0.73
10:0R:57:MET:HE1	47:3D:15:LEU:HD12	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:0R:105:ILE:HG22	10:0R:109:GLN:HE21	1.53	0.73
57:3f:97:LYS:NZ	57:3f:99:MET:SD	2.60	0.73
64:5B:188:LEU:HD21	66:5K:165:MET:HE1	1.69	0.73
1:BF:322:SER:OG	2:BG:222:PRO:O	2.07	0.73
2:CB:251:ASP:H	2:CB:254:GLU:HB2	1.53	0.73
1:CM:237:THR:HG22	1:CM:250:LEU:HD21	1.69	0.73
2:D:27:GLU:OE1	2:D:243:ARG:NH2	2.21	0.73
1:DI:346:PRO:O	2:DJ:394:LYS:NZ	2.20	0.73
2:HG:308:ARG:HH21	2:HG:340:THR:HB	1.52	0.73
2:IA:199:ASP:OD2	2:IA:256:GLN:NE2	2.21	0.73
1:JC:267:MET:HE2	1:JC:371:ASN:HB3	1.70	0.73
2:KJ:326:LYS:NZ	1:KK:220:PRO:O	2.21	0.73
1:QC:329:GLN:HE21	59:4a:198:SER:HB3	1.52	0.73
1:RI:207:LEU:HB3	1:RI:225:LEU:HD22	1.71	0.73
2:RJ:180:ALA:HB3	2:RJ:183:GLU:HB2	1.71	0.73
2:UA:120:ASP:OD2	62:4A:425:ASN:ND2	2.21	0.73
2:UA:250:VAL:HA	2:UA:254:GLU:HG2	1.70	0.73
1:UB:299:MET:HE1	1:UB:367:PHE:HE2	1.54	0.73
2:VA:11:GLN:HG3	2:VA:74:VAL:HG11	1.69	0.73
1:WD:16:ILE:HD12	1:WD:229:VAL:HG21	1.70	0.73
8:0F:50:GLY:O	8:0F:55:HIS:N	2.21	0.73
10:0R:309:ARG:HH21	10:0R:310:MET:HE2	1.53	0.73
27:1S:119:LEU:HB2	27:1S:219:THR:HG23	1.68	0.73
31:1s:29:ARG:O	31:1s:33:LYS:NZ	2.20	0.73
44:2v:131:ARG:HH12	44:2v:225:ARG:HD2	1.52	0.73
1:AH:320:ARG:NH2	54:3a:78:ARG:O	2.22	0.73
2:JB:101:ASN:OD1	2:JB:186:ASN:ND2	2.22	0.73
1:JE:282:ARG:HH21	1:JE:288:GLU:HB3	1.53	0.73
1:JI:279:GLN:NE2	52:3U:132:GLU:O	2.20	0.73
1:JM:16:ILE:HD11	1:JM:229:VAL:HB	1.68	0.73
1:JM:205:GLU:HB2	1:JM:302:ALA:HB2	1.70	0.73
2:KL:326:LYS:NZ	1:KM:218:THR:O	2.22	0.73
1:LO:165:MET:HE3	1:LO:250:LEU:HD13	1.69	0.73
1:MD:299:MET:O	32:2B:242:ARG:NH2	2.20	0.73
1:ML:286:VAL:HG22	1:ML:363:MET:HE1	1.70	0.73
1:O:248:SER:HA	1:O:252:LYS:HD3	1.71	0.73
1:QK:247:ASN:ND2	2:QL:73:THR:OG1	2.21	0.73
2:SC:195:LEU:HD11	2:SC:428:LEU:HD21	1.70	0.73
2:VC:251:ASP:H	2:VC:254:GLU:HB3	1.50	0.73
2:AA:71:GLU:HB3	2:AA:98:ASP:HB3	1.69	0.73
1:CK:249:ASP:H	1:CK:252:LYS:HB2	1.54	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:246:LEU:HD21	2:EA:179:THR:HG21	1.69	0.73
2:FA:217:LEU:HD21	2:FA:367:ASP:HB2	1.71	0.73
2:FG:297:GLU:HG3	2:FG:299:ALA:H	1.54	0.73
2:JN:44:VAL:HG21	17:0n:10:ARG:HD3	1.71	0.73
1:LO:311:LEU:HD23	1:LO:342:ILE:HG13	1.71	0.73
2:NC:259:LEU:HD21	2:NC:316:CYS:HB2	1.69	0.73
1:OJ:326:VAL:HG21	1:OJ:353:ILE:HD11	1.69	0.73
1:TD:237:THR:HG22	1:TD:250:LEU:HD21	1.71	0.73
2:UK:229:ARG:HD3	2:UK:363:VAL:HG21	1.70	0.73
1:VH:322:SER:OG	2:VI:222:PRO:O	2.06	0.73
2:VM:64:ARG:NH1	2:VM:129:CYS:SG	2.61	0.73
9:0M:222:ASP:HB3	9:0M:242:LYS:HE3	1.71	0.73
11:0U:191:SER:HB3	11:0U:334:GLN:HE22	1.51	0.73
23:1B:231:LEU:HD11	45:2z:173:LYS:HD2	1.71	0.73
54:3Z:438:HIS:HB2	54:3Z:441:LYS:HB3	1.71	0.73
68:5T:81:VAL:HG13	68:5T:88:ARG:HH22	1.53	0.73
1:AJ:314:SER:HB3	1:AJ:368:ILE:HB	1.70	0.73
2:C:15:GLN:HE22	2:C:74:VAL:HG12	1.53	0.73
2:CH:174:SER:OG	2:CH:177:VAL:O	2.05	0.73
2:DB:204:LEU:HD22	2:DB:231:ILE:HG12	1.70	0.73
1:E:263:LEU:HD21	1:E:421:GLU:HG3	1.71	0.73
1:GH:306:ARG:NH2	59:4O:280:LYS:O	2.22	0.73
2:KB:219:ILE:HG13	2:KB:222:PRO:HD3	1.71	0.73
1:LC:99:ASN:HD21	1:LC:178:THR:HG22	1.54	0.73
1:LM:73:MET:HG3	1:LM:92:PHE:HB3	1.69	0.73
2:OC:102:ASN:HB3	2:OC:105:ARG:HB2	1.71	0.73
1:OL:163:ILE:HD11	1:OL:251:ARG:HB2	1.71	0.73
2:PA:203:MET:HE3	2:PA:384:ILE:HD13	1.69	0.73
2:PG:76:ASP:HB3	22:1x:251:LEU:HD12	1.71	0.73
1:PJ:242:PHE:HB3	1:PJ:356:ILE:HD13	1.70	0.73
2:QB:175:PRO:HD2	2:QB:207:GLU:HG3	1.71	0.73
2:SG:174:SER:OG	2:SG:177:VAL:O	2.07	0.73
2:VA:191:THR:HG21	2:VA:425:LEU:HD21	1.71	0.73
1:VJ:306:ARG:HH11	62:4B:353:LEU:HG	1.54	0.73
1:WD:317:PHE:HB3	1:WD:321:MET:HE1	1.70	0.73
23:1E:326:GLU:OE2	29:1k:182:ARG:NH1	2.20	0.73
30:1o:24:ALA:HB3	62:4B:172:ASP:O	1.89	0.73
40:2Z:13:VAL:HG22	40:2Z:17:ARG:HH21	1.53	0.73
1:AD:262:ARG:HH22	5:XN:306:MET:HA	1.52	0.73
1:EH:324:LYS:NZ	2:EI:222:PRO:HD2	2.04	0.73
1:F:215:LEU:HD21	1:F:273:LEU:HD12	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FL:130:LEU:O	1:FL:162:ARG:NH1	2.22	0.73
2:IC:319:TYR:HB3	2:IC:323:VAL:HG21	1.71	0.73
1:JM:91:ILE:HG21	1:JM:116:VAL:HG22	1.70	0.73
1:KC:347:ASN:HD22	2:KD:178:SER:HB3	1.52	0.73
1:LA:131:GLN:HE22	1:LA:249:ASP:HB2	1.54	0.73
1:MF:324:LYS:HE3	2:MG:214:ARG:HG3	1.70	0.73
2:OI:109:THR:HG23	2:OI:110:ILE:HG12	1.71	0.73
2:PG:89:PRO:HA	22:1x:253:GLN:HE21	1.54	0.73
1:PL:200:MET:HB3	1:PL:266:PHE:HB2	1.69	0.73
2:PM:174:SER:OG	2:PM:177:VAL:O	2.05	0.73
2:QJ:364:PRO:O	28:1b:194:LYS:NZ	2.17	0.73
1:RI:253:LEU:HD11	1:RI:316:LEU:HD11	1.71	0.73
2:RL:173:PRO:HB3	2:RL:183:GLU:HG2	1.70	0.73
1:WB:253:LEU:HD21	1:WB:316:LEU:HD21	1.71	0.73
1:WD:35:THR:HB	8:0F:25:ARG:HH22	1.52	0.73
3:XA:26:ASP:HB2	3:XA:63:ALA:HA	1.70	0.73
16:0k:278:LEU:HD22	16:0k:307:MET:HE2	1.71	0.73
25:1O:317:ARG:HD2	25:1O:323:ARG:HB3	1.71	0.73
1:A:102:ALA:HB2	1:A:403:MET:HE2	1.70	0.73
1:AF:163:ILE:HD13	1:AF:250:LEU:HB3	1.71	0.73
2:BM:258:ASN:HB2	1:BN:179:VAL:HG22	1.70	0.73
1:GD:248:SER:HA	1:GD:252:LYS:HD3	1.71	0.73
2:KB:424:ASP:OD2	22:1w:48:TYR:OH	2.05	0.73
1:KE:347:ASN:ND2	2:KF:178:SER:OG	2.22	0.73
1:KK:73:MET:HG3	1:KK:92:PHE:HB3	1.70	0.73
1:KM:172:SER:OG	1:KM:174:ARG:NH1	2.22	0.73
1:MB:205:GLU:HB3	33:2F:200:VAL:HG11	1.70	0.73
1:MH:252:LYS:HG3	2:MI:100:ALA:HA	1.71	0.73
2:MI:195:LEU:HD11	2:MI:428:LEU:HD22	1.71	0.73
1:ND:213:ARG:HH12	1:ND:297:LYS:HE2	1.54	0.73
1:O:232:VAL:HG11	1:O:268:MET:HG3	1.69	0.73
2:PM:287:SER:OG	2:PM:290:ASP:OD2	2.04	0.73
1:SB:237:THR:HG22	1:SB:250:LEU:HD21	1.71	0.73
1:UF:260:PHE:HB2	1:UF:263:LEU:HD23	1.70	0.73
2:VI:97:GLU:OE1	2:VI:105:ARG:NH1	2.22	0.73
7:0C:251:THR:HG22	7:0C:253:PHE:H	1.54	0.73
2:AC:251:ASP:H	2:AC:254:GLU:HB3	1.53	0.72
2:CF:174:SER:OG	2:CF:177:VAL:O	2.07	0.72
1:DG:289:LEU:O	1:DG:293:MET:HG3	1.89	0.72
1:DK:46:ARG:HH22	2:DL:72:PRO:HG2	1.53	0.72
1:EJ:248:SER:HA	1:EJ:252:LYS:HG2	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FL:267:MET:SD	1:FL:301:GLN:NE2	2.62	0.72
1:H:339:SER:H	64:5B:91:LYS:HE3	1.53	0.72
2:IG:240:ALA:HA	2:IG:243:ARG:HD3	1.70	0.72
2:LF:123:ARG:HG3	33:2G:186:PHE:HB2	1.69	0.72
1:MF:245:GLN:NE2	2:MG:223:SER:OG	2.22	0.72
2:MK:174:SER:OG	2:MK:177:VAL:O	2.06	0.72
2:NA:259:LEU:O	2:NA:380:ASN:ND2	2.22	0.72
2:NC:254:GLU:O	2:NC:258:ASN:ND2	2.22	0.72
1:NL:232:VAL:HB	1:NL:268:MET:HE3	1.69	0.72
1:O:173:PRO:HD2	1:O:380:ARG:HH22	1.54	0.72
2:OG:18:ASN:HD21	28:1h:43:TYR:HE2	1.34	0.72
2:PM:181:VAL:HG23	2:PM:182:VAL:HG23	1.71	0.72
2:QH:308:ARG:HH21	59:4b:6:VAL:HG13	1.53	0.72
2:QL:159:VAL:HG13	57:3i:86:ARG:HH22	1.52	0.72
2:SA:329:ASN:HD21	1:SB:175:VAL:HG13	1.54	0.72
2:TC:174:SER:OG	2:TC:177:VAL:O	2.07	0.72
6:0:58:LEU:HD22	6:0:170:VAL:HG11	1.71	0.72
24:1H:426:LYS:HE3	24:1H:509:ASP:HB2	1.71	0.72
24:1I:136:GLN:HB2	24:1I:139:SER:HB3	1.70	0.72
24:1J:3:TYR:O	24:1J:7:GLN:NE2	2.22	0.72
22:1x:40:HIS:CE1	22:1x:47:CYS:SG	2.82	0.72
41:2l:348:MET:SD	41:2l:352:ARG:NH2	2.62	0.72
41:2o:436:GLU:OE1	41:2o:439:ARG:NH2	2.22	0.72
1:DK:207:LEU:HB3	1:DK:225:LEU:HD22	1.72	0.72
1:GH:247:ASN:OD1	2:GI:11:GLN:NE2	2.21	0.72
1:GJ:278:SER:OG	1:GJ:282:ARG:NH1	2.22	0.72
1:HJ:165:MET:HE3	1:HJ:250:LEU:HD22	1.69	0.72
2:IK:192:HIS:ND1	2:IK:424:ASP:OD1	2.18	0.72
2:JN:271:SER:HA	2:JN:302:LEU:HD23	1.71	0.72
1:NL:236:VAL:HG13	1:NL:237:THR:HG23	1.70	0.72
2:PG:33:ASP:O	2:PG:60:LYS:NZ	2.20	0.72
1:QI:301:GLN:NE2	1:QI:377:MET:SD	2.62	0.72
1:T:333:VAL:HG23	61:3w:130:THR:CG2	2.16	0.72
2:TC:2:ARG:HA	2:TC:133:GLN:HE22	1.54	0.72
1:TJ:337:ASN:OD1	61:3x:81:VAL:HG22	1.89	0.72
1:VL:313:ALA:HB1	1:VL:367:PHE:HE1	1.54	0.72
9:0L:309:VAL:HG12	9:0L:316:VAL:HG12	1.70	0.72
17:0m:133:HIS:CE1	17:0m:137:MET:SD	2.82	0.72
28:1a:239:THR:CG2	28:1b:28:HIS:CE1	2.68	0.72
38:2U:235:THR:HG22	38:2U:237:LYS:H	1.54	0.72
2:AG:263:PRO:HD2	3:XC:116:PRO:HG3	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AI:263:PRO:HD2	3:XD:116:PRO:HG3	1.70	0.72
2:CD:258:ASN:ND2	2:CD:352:LYS:HD3	2.03	0.72
1:CE:257:LEU:HD11	1:CE:314:SER:HB2	1.69	0.72
1:EF:267:MET:HE3	1:EF:301:GLN:HE21	1.53	0.72
1:EL:337:ASN:HB3	1:EL:340:TYR:HD2	1.52	0.72
1:FD:200:MET:HE2	1:FD:268:MET:HE1	1.71	0.72
1:GJ:346:PRO:O	2:GK:394:LYS:NZ	2.22	0.72
2:JF:326:LYS:NZ	1:JG:220:PRO:O	2.22	0.72
1:JK:215:LEU:HD21	52:3U:212:LEU:HD11	1.71	0.72
1:MB:178:THR:HB	1:MB:181:GLU:HG3	1.71	0.72
2:NE:422:ARG:HH21	2:NE:425:LEU:HB3	1.54	0.72
1:PJ:27:GLU:OE2	1:PJ:241:ARG:NH2	2.22	0.72
1:QC:350:LYS:NZ	1:QC:352:SER:OG	2.21	0.72
1:SH:125:GLU:OE2	1:TH:291:GLN:NE2	2.23	0.72
1:TL:100:ASN:HB3	1:TL:103:LYS:HB2	1.71	0.72
1:TL:375:GLN:OE1	1:TL:423:GLN:NE2	2.22	0.72
8:0G:160:GLU:OE2	8:0G:164:GLN:NE2	2.22	0.72
21:0w:454:LYS:HZ1	21:0w:458:GLU:HG3	1.54	0.72
28:1a:236:CYS:HA	28:1b:24:GLU:OE1	1.90	0.72
43:2t:388:SER:O	43:2t:391:LYS:NZ	2.20	0.72
49:3P:389:LEU:HB3	49:3P:393:ARG:HH21	1.53	0.72
67:5P:78:LEU:HB3	67:5P:80:MET:HE3	1.69	0.72
2:AG:295:VAL:HG12	2:AG:377:MET:HE3	1.71	0.72
2:BG:258:ASN:HD21	1:BH:99:ASN:ND2	1.88	0.72
1:DE:247:ASN:ND2	2:DF:73:THR:OG1	2.23	0.72
1:DE:346:PRO:O	2:DF:394:LYS:NZ	2.22	0.72
2:DH:116:ASP:OD1	2:DH:117:LEU:N	2.22	0.72
2:FE:11:GLN:HG3	2:FE:74:VAL:HG11	1.72	0.72
1:G:237:THR:HG22	1:G:250:LEU:HD21	1.71	0.72
1:GD:87:PRO:HD3	1:HD:281:TYR:HD2	1.54	0.72
1:JA:324:LYS:NZ	2:JB:222:PRO:HG2	2.05	0.72
1:KG:202:ILE:HG12	1:KG:300:MET:HE2	1.71	0.72
1:LC:33:THR:HA	1:LC:83:GLN:HG2	1.72	0.72
2:LD:413:MET:HG2	2:LD:417:GLU:HG3	1.71	0.72
2:MC:180:ALA:HB3	2:MC:183:GLU:HB2	1.71	0.72
2:PG:251:ASP:H	2:PG:254:GLU:HB3	1.55	0.72
2:SA:264:ARG:H	56:3d:216:ARG:NH2	1.85	0.72
2:SC:339:ARG:NH2	55:3b:141:GLU:OE2	2.22	0.72
1:TB:336:LYS:HE2	61:3w:182:ARG:HG2	1.71	0.72
1:TL:48:ASN:O	1:TL:62:ARG:NH2	2.21	0.72
2:UC:274:PRO:HD2	2:UC:374:ALA:HA	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UJ:134:GLN:HE21	1:UJ:167:PHE:HE2	1.36	0.72
2:UK:254:GLU:O	2:UK:258:ASN:ND2	2.22	0.72
8:0I:227:ILE:O	8:0I:231:GLN:NE2	2.22	0.72
1:AF:41:ASP:HB3	54:3Z:443:ARG:HE	1.55	0.72
2:CB:116:ASP:OD1	2:CB:117:LEU:N	2.22	0.72
1:CC:372:THR:HG21	1:CC:426:GLN:HB2	1.70	0.72
2:EA:75:VAL:HG13	2:EA:92:LEU:HD12	1.71	0.72
2:EC:116:ASP:OD1	2:EC:117:LEU:N	2.22	0.72
2:GK:196:GLU:HG3	2:GK:197:HIS:CD2	2.24	0.72
1:GL:336:LYS:NZ	59:4P:89:ARG:O	2.21	0.72
2:HE:195:LEU:HD11	2:HE:428:LEU:HD11	1.70	0.72
2:HG:174:SER:OG	2:HG:177:VAL:O	2.07	0.72
1:IL:245:GLN:HE22	2:IM:223:SER:HG	1.37	0.72
2:J:203:MET:HE3	2:J:384:ILE:HG12	1.71	0.72
2:JB:42:ILE:O	17:0m:13:ARG:NH2	2.18	0.72
1:KG:19:LYS:NZ	1:KG:223:GLY:O	2.23	0.72
1:KG:207:LEU:HB3	1:KG:225:LEU:HD22	1.69	0.72
2:LB:174:SER:HB2	2:LB:207:GLU:HG3	1.71	0.72
2:MA:77:GLU:OE1	45:2y:152:ASN:ND2	2.23	0.72
2:MK:211:ASP:OD2	2:MK:304:LYS:NZ	2.22	0.72
2:NA:56:THR:O	41:2o:464:ARG:NH2	2.20	0.72
2:QL:75:VAL:HG21	2:QL:94:SER:HB2	1.70	0.72
1:RA:267:MET:HE3	1:RA:299:MET:HG2	1.70	0.72
1:SB:207:LEU:HB3	1:SB:225:LEU:HD22	1.70	0.72
1:TF:276:ARG:HD2	21:0w:256:GLU:HB2	1.70	0.72
1:TJ:215:LEU:HB3	1:TJ:217:LEU:HD23	1.72	0.72
2:WC:120:ASP:OD2	2:WC:124:LYS:NZ	2.21	0.72
17:0n:253:ARG:HD2	42:2r:105:ASN:HD22	1.55	0.72
1:CE:324:LYS:NZ	2:CF:222:PRO:O	2.22	0.72
2:CJ:318:MET:HE1	2:CJ:378:ILE:HG12	1.71	0.72
1:CM:200:MET:HE1	1:CM:368:ILE:HG23	1.71	0.72
2:DD:75:VAL:HG21	2:DD:94:SER:HB2	1.70	0.72
2:DF:259:LEU:HD11	2:DF:316:CYS:HB2	1.70	0.72
1:ED:83:GLN:O	1:FD:281:TYR:OH	2.07	0.72
2:EE:116:ASP:OD1	2:EE:117:LEU:N	2.22	0.72
2:EE:180:ALA:HB3	2:EE:183:GLU:HB2	1.72	0.72
1:EL:133:PHE:HD2	1:EL:164:MET:HE1	1.55	0.72
1:FB:347:ASN:ND2	2:FC:178:SER:OG	2.19	0.72
2:GI:101:ASN:ND2	71:GI:501:GTP:O1B	2.22	0.72
1:GL:198:GLU:HA	1:GL:264:HIS:HB2	1.71	0.72
1:HF:362:LYS:HD3	1:HF:363:MET:HG3	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HM:209:ILE:HG21	2:HM:227:VAL:HG23	1.71	0.72
2:IA:364:PRO:O	38:2U:102:ASN:ND2	2.23	0.72
2:IE:173:PRO:HG3	2:IE:183:GLU:HG2	1.71	0.72
2:JB:296:PHE:HE1	2:JB:377:MET:HE1	1.54	0.72
2:LD:326:LYS:HE2	1:LE:219:THR:HA	1.71	0.72
2:MG:217:LEU:HD21	2:MG:275:VAL:HG22	1.71	0.72
2:NC:180:ALA:HB3	2:NC:183:GLU:HB2	1.71	0.72
2:PG:434:GLU:HG2	58:3m:20:GLN:HG2	1.70	0.72
2:R:27:GLU:OE1	2:R:243:ARG:NH2	2.16	0.72
2:TE:301:MET:HE3	2:TE:307:PRO:HG2	1.72	0.72
1:UH:112:LEU:HD22	1:UH:147:MET:HE1	1.72	0.72
1:WH:207:LEU:HB3	1:WH:225:LEU:HD22	1.71	0.72
2:WM:174:SER:OG	2:WM:177:VAL:O	2.06	0.72
6:0:181:ARG:NH1	6:0:208:PRO:O	2.23	0.72
16:0l:387:LEU:HD22	16:0l:461:LYS:HG3	1.72	0.72
42:2r:30:ARG:HG3	42:2r:33:ARG:HE	1.54	0.72
1:AF:53:GLU:HB3	16:0k:37:ARG:HH12	1.54	0.72
1:CG:34:GLY:HA3	1:CG:58:ARG:HD2	1.71	0.72
2:FA:326:LYS:HE3	1:FB:220:PRO:HG2	1.69	0.72
2:GK:251:ASP:H	2:GK:254:GLU:HB2	1.53	0.72
1:HB:35:THR:HG21	17:0m:59:ARG:HD2	1.70	0.72
1:I:14:ASN:HD21	1:I:67:ASP:HB2	1.54	0.72
1:JC:236:VAL:HG13	1:JC:237:THR:HG23	1.72	0.72
1:JK:375:GLN:HE22	1:JK:423:GLN:HB3	1.53	0.72
1:LK:174:ARG:HB3	35:2O:110:ASN:HD21	1.54	0.72
2:OA:319:TYR:HB3	2:OA:323:VAL:HG21	1.72	0.72
2:OC:174:SER:OG	2:OC:177:VAL:O	2.07	0.72
1:OL:165:MET:HE1	1:OL:250:LEU:HD22	1.70	0.72
2:OM:195:LEU:HD12	2:OM:264:ARG:HH21	1.54	0.72
1:SJ:332:ASN:ND2	59:3p:246:ALA:O	2.20	0.72
1:UB:31:ASP:OD2	1:UB:37:GLN:NE2	2.22	0.72
2:WC:392:ASP:HB3	2:WC:425:LEU:HD23	1.72	0.72
1:WH:19:LYS:HE3	1:WH:223:GLY:HA2	1.72	0.72
26:1Q:123:ILE:HB	26:1Q:140:VAL:HB	1.70	0.72
44:2v:301:ARG:HB2	44:2v:387:ALA:HB2	1.71	0.72
59:3p:148:THR:H	59:3p:151:TYR:HD2	1.37	0.72
2:AC:174:SER:OG	2:AC:177:VAL:O	2.08	0.72
1:AF:189:VAL:HG21	1:AF:415:MET:HE2	1.72	0.72
2:DF:1:MET:HG3	2:DF:2:ARG:HG3	1.71	0.72
1:EB:103:LYS:NZ	1:EB:401:GLU:OE2	2.23	0.72
1:ED:257:LEU:HD11	1:ED:314:SER:HB2	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GI:98:ASP:O	2:GI:105:ARG:NH2	2.23	0.72
1:GL:121:ARG:NH1	1:GL:159:TYR:OH	2.23	0.72
2:HA:224:TYR:HA	2:HA:227:VAL:HG22	1.71	0.72
2:HM:1:MET:HG3	2:HM:2:ARG:HG3	1.69	0.72
1:IB:267:MET:HE1	1:IB:305:PRO:HG3	1.71	0.72
2:IC:27:GLU:OE1	2:IC:243:ARG:NH1	2.22	0.72
1:IF:346:PRO:O	2:IG:394:LYS:NZ	2.22	0.72
1:KA:66:MET:HB3	1:KA:147:MET:HE3	1.70	0.72
2:KB:174:SER:OG	2:KB:177:VAL:O	2.08	0.72
1:LI:207:LEU:HB3	1:LI:225:LEU:HD22	1.71	0.72
2:MK:26:LEU:HD21	2:MK:363:VAL:HG12	1.72	0.72
2:PI:115:VAL:HG11	2:PI:152:LEU:HD22	1.72	0.72
1:PL:67:ASP:OD1	1:PL:68:LEU:N	2.22	0.72
2:Q:51:THR:HG21	2:Q:243:ARG:HA	1.70	0.72
2:SG:298:PRO:HA	2:SG:301:MET:HE2	1.72	0.72
1:SJ:249:ASP:H	1:SJ:252:LYS:HB2	1.54	0.72
2:TK:32:PRO:HA	2:TK:86:LEU:HD12	1.71	0.72
2:UI:47:ASP:HB2	2:UI:50:ASN:HD21	1.55	0.72
1:VL:316:LEU:HD23	1:VL:352:SER:HB2	1.72	0.72
1:W:347:ASN:ND2	2:WA:178:SER:OG	2.23	0.72
3:XE:90:GLU:HG2	3:XE:104:ARG:HD3	1.71	0.72
24:1H:136:GLN:HB2	24:1H:139:SER:HB3	1.71	0.72
36:2Q:30:VAL:HG12	36:2Q:56:LEU:HD21	1.71	0.72
49:3P:512:ARG:NH2	49:3P:532:LEU:O	2.22	0.72
1:AD:249:ASP:H	1:AD:252:LYS:HB3	1.54	0.72
1:AH:156:ARG:NH2	1:AH:197:ASP:OD2	2.19	0.72
1:BL:159:TYR:HB3	1:BL:162:ARG:HG3	1.71	0.72
1:BL:320:ARG:HG2	16:0l:278:LEU:HG	1.72	0.72
2:CD:215:ARG:NH1	2:CD:216:SER:OG	2.23	0.72
1:DM:291:GLN:NE2	1:DM:295:ASP:OD1	2.23	0.72
2:EE:1:MET:HG3	2:EE:2:ARG:HG3	1.72	0.72
2:FA:5:ILE:HD13	2:FA:64:ARG:HB3	1.72	0.72
2:HG:259:LEU:HD11	2:HG:316:CYS:HB2	1.71	0.72
1:IJ:268:MET:HE1	1:IJ:368:ILE:HG23	1.72	0.72
1:LG:51:PHE:HB3	1:LG:59:TYR:HB3	1.72	0.72
1:LG:194:GLU:HA	13:0Z:101:ARG:NH2	2.04	0.72
1:MD:326:VAL:HG11	1:MD:353:ILE:HD11	1.72	0.72
2:ME:179:THR:HG21	71:ME:501:GTP:H5'	1.72	0.72
2:NG:195:LEU:HD21	2:NG:264:ARG:HH21	1.55	0.72
1:OB:209:ASP:OD1	1:OB:213:ARG:NH1	2.23	0.72
2:OE:1:MET:N	2:OE:3:GLU:OE1	2.18	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TJ:377:MET:SD	1:TJ:380:ARG:NH2	2.63	0.72
1:UB:60:VAL:HG11	1:UB:86:ARG:HG3	1.72	0.72
1:WF:347:ASN:HD22	2:WG:178:SER:HB3	1.54	0.72
5:XN:46:LYS:NZ	5:XN:48:THR:OG1	2.23	0.72
8:0I:41:THR:OG1	8:0I:44:GLU:OE1	2.06	0.72
9:0N:547:GLY:HA3	9:0N:553:LEU:HD11	1.72	0.72
17:0n:333:GLN:NE2	17:0n:336:MET:SD	2.63	0.72
24:1J:136:GLN:HB2	24:1J:139:SER:HB3	1.71	0.72
28:1b:33:LEU:HD23	41:2h:337:LEU:CD1	2.20	0.72
32:2B:248:PRO:HG2	32:2B:266:THR:HB	1.71	0.72
41:2e:357:THR:O	41:2e:361:GLN:HG2	1.90	0.72
41:2i:364:ASN:O	41:2i:368:HIS:ND1	2.22	0.72
41:2o:175:ILE:HG12	41:2o:179:ARG:NH1	2.04	0.72
49:3Q:203:ARG:HH11	49:3Q:226:ASN:HD22	1.35	0.72
2:AE:108:TYR:O	2:AE:112:LYS:NZ	2.23	0.72
1:CM:44:LEU:HA	1:CM:47:ILE:HB	1.72	0.72
1:DE:347:ASN:ND2	2:DF:178:SER:OG	2.23	0.72
1:GF:346:PRO:O	2:GG:394:LYS:NZ	2.22	0.72
2:GG:316:CYS:HB3	2:GG:378:ILE:HG13	1.70	0.72
1:IJ:347:ASN:ND2	2:IK:178:SER:OG	2.22	0.72
1:KI:207:LEU:HB3	1:KI:225:LEU:HD22	1.71	0.72
1:OH:19:LYS:NZ	28:1h:63:THR:OG1	2.20	0.72
2:QD:316:CYS:HB3	2:QD:378:ILE:HG23	1.72	0.72
1:RI:117:LEU:HD11	1:RI:154:LYS:HD3	1.72	0.72
2:UC:195:LEU:HD22	2:UC:428:LEU:HD21	1.71	0.72
2:UK:31:GLN:HE22	2:UK:37:PRO:HD3	1.54	0.72
1:UL:22:GLU:HG2	1:UL:81:TYR:CD2	2.24	0.72
1:VD:322:SER:OG	2:VE:222:PRO:O	2.07	0.72
1:WD:238:CYS:HB2	1:WD:318:ARG:HH11	1.55	0.72
5:XN:293:ARG:HG3	5:XN:294:TYR:CD1	2.24	0.72
9:0L:349:ARG:NH1	9:0L:358:GLU:OE2	2.22	0.72
17:0n:143:HIS:O	17:0n:147:GLN:NE2	2.22	0.72
24:1K:702:LEU:HG	24:1K:704:LEU:HD13	1.71	0.72
66:5K:12:LYS:HB3	66:5K:17:GLU:HG3	1.71	0.72
66:5K:153:SER:HB2	66:5K:168:ARG:HD3	1.70	0.72
1:AF:26:ASP:OD2	54:3Z:392:ARG:NH1	2.23	0.71
1:BF:252:LYS:HD2	2:BG:100:ALA:HA	1.72	0.71
1:BF:356:ILE:HG23	16:0k:23:ARG:HH12	1.55	0.71
1:FJ:22:GLU:HG3	1:FJ:81:TYR:HE1	1.54	0.71
2:LJ:431:ASP:OD1	22:0z:143:GLY:HA3	1.90	0.71
1:LO:412:GLU:OE2	22:1y:154:LYS:NZ	2.22	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:187:LEU:O	1:N:191:GLN:NE2	2.22	0.71
1:OH:31:ASP:OD2	1:OH:37:GLN:NE2	2.23	0.71
2:PC:102:ASN:HB3	2:PC:105:ARG:HB2	1.72	0.71
1:RC:39:ASP:O	41:2b:148:ASN:ND2	2.23	0.71
1:SF:27:GLU:OE2	1:SF:318:ARG:NH2	2.23	0.71
2:TE:265:ILE:HG21	2:TE:313:MET:HE1	1.72	0.71
1:VB:378:PHE:HB3	1:VB:415:MET:HE1	1.71	0.71
2:VC:258:ASN:HD21	1:VD:178:THR:HG23	1.55	0.71
1:VL:131:GLN:HE22	1:VL:250:LEU:HB2	1.55	0.71
2:WE:91:GLN:HE21	4:XO:31:PHE:HE2	1.38	0.71
1:WF:229:VAL:HG12	1:WF:233:MET:HE2	1.71	0.71
1:WH:68:LEU:HD12	1:WH:97:ALA:HB2	1.72	0.71
1:WH:328:GLU:OE2	1:WH:332:ASN:ND2	2.22	0.71
23:1A:205:ARG:NH1	23:1A:209:ASP:OD2	2.23	0.71
25:1O:702:SER:O	25:1O:706:GLN:HB2	1.89	0.71
28:1U:256:VAL:HG22	28:1V:17:THR:HG23	1.71	0.71
28:1g:254:LEU:CG	28:1h:19:VAL:HG21	2.20	0.71
46:3B:293:GLU:O	46:3B:295:ARG:NH1	2.23	0.71
2:CL:209:ILE:HG21	2:CL:227:VAL:HA	1.71	0.71
2:FK:240:ALA:HA	2:FK:243:ARG:HE	1.55	0.71
2:HA:104:ALA:HB2	2:HA:413:MET:HG2	1.71	0.71
1:I:200:MET:HG2	1:I:266:PHE:HB2	1.72	0.71
1:JK:237:THR:OG1	1:JK:241:ARG:NH1	2.23	0.71
2:KL:102:ASN:HB3	2:KL:105:ARG:HB2	1.71	0.71
2:NE:174:SER:OG	2:NE:177:VAL:O	2.08	0.71
2:NM:204:LEU:HD22	2:NM:231:ILE:HD12	1.72	0.71
1:OB:420:SER:O	1:OB:424:GLN:NE2	2.23	0.71
2:OG:56:THR:O	41:2l:408:LYS:NZ	2.24	0.71
2:QB:319:TYR:HB3	2:QB:323:VAL:HG21	1.70	0.71
1:RI:301:GLN:HE22	1:RI:303:ALA:HB3	1.54	0.71
1:SD:41:ASP:OD2	21:0w:287:THR:OG1	2.08	0.71
1:UD:334:GLN:HE22	1:UD:348:ASN:HB2	1.53	0.71
5:XP:216:LEU:HB3	5:XP:255:VAL:HG21	1.72	0.71
8:0F:50:GLY:CA	8:0F:55:HIS:CB	2.68	0.71
8:0G:381:GLU:OE1	30:1o:79:ARG:NH1	2.23	0.71
9:0O:26:LEU:HD21	9:0O:35:LEU:HD22	1.70	0.71
1:AN:178:THR:HB	1:AN:181:GLU:HG3	1.72	0.71
2:BG:57:GLY:O	25:1O:270:LYS:NZ	2.23	0.71
1:BH:42:LEU:HB3	16:0l:780:ARG:HH22	1.55	0.71
1:BL:209:ASP:OD1	1:BL:213:ARG:NH1	2.23	0.71
1:CA:232:VAL:HG13	1:CA:268:MET:HE2	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CD:199:ASP:OD2	2:CD:256:GLN:NE2	2.23	0.71
2:EI:204:LEU:HD22	2:EI:231:ILE:HD12	1.73	0.71
1:GF:292:GLN:HG2	1:GF:298:ASN:HD22	1.56	0.71
1:HD:187:LEU:HD11	1:HD:403:MET:HE1	1.72	0.71
2:HI:254:GLU:OE2	1:HJ:99:ASN:ND2	2.23	0.71
1:I:5:VAL:HG23	1:I:62:ARG:HG2	1.72	0.71
2:IK:196:GLU:HG3	2:IK:197:HIS:ND1	2.06	0.71
1:JC:276:ARG:NH2	15:0f:79:LEU:O	2.19	0.71
2:KD:178:SER:OG	2:KD:183:GLU:OE2	2.07	0.71
1:MJ:294:PHE:HB3	14:0d:86:ILE:HD11	1.71	0.71
1:NB:19:LYS:NZ	1:NB:223:GLY:O	2.22	0.71
2:NG:298:PRO:HA	2:NG:301:MET:HE1	1.73	0.71
1:NL:324:LYS:HZ3	2:NM:222:PRO:HG2	1.55	0.71
2:R:167:LEU:HG	2:R:200:VAL:HB	1.72	0.71
2:WC:174:SER:OG	2:WC:177:VAL:O	2.08	0.71
3:XD:86:TYR:O	3:XD:159:ASN:ND2	2.17	0.71
16:0l:570:VAL:HG12	16:0l:574:GLN:HE21	1.56	0.71
27:1S:799:PRO:HB2	27:1S:804:MET:HG2	1.72	0.71
35:2N:256:TRP:NE1	35:2O:47:LEU:O	2.23	0.71
35:2O:29:LEU:HD21	39:2X:164:ASP:H	1.55	0.71
1:BF:237:THR:HG22	1:BF:250:LEU:HD21	1.71	0.71
1:CG:257:LEU:O	1:CG:370:ASN:ND2	2.22	0.71
1:E:337:ASN:HB3	1:E:340:TYR:HD2	1.54	0.71
2:GA:93:VAL:HG11	2:GA:121:ARG:HH12	1.54	0.71
2:GA:159:VAL:HB	65:5G:109:LYS:HE2	1.71	0.71
2:GA:270:THR:HA	2:GA:377:MET:O	1.90	0.71
2:GE:28:HIS:HE1	2:GE:243:ARG:HD2	1.55	0.71
1:GF:249:ASP:H	1:GF:252:LYS:HB2	1.53	0.71
1:GL:4:ILE:HB	1:GL:50:TYR:HE1	1.55	0.71
1:HJ:207:LEU:HB3	1:HJ:225:LEU:HD22	1.71	0.71
2:IM:76:ASP:OD1	2:IM:79:ARG:NH1	2.24	0.71
2:JJ:239:THR:OG1	2:JJ:243:ARG:NH1	2.23	0.71
1:LG:19:LYS:NZ	25:1O:30:ASP:OD2	2.22	0.71
1:M:339:SER:HB3	6:0:111:GLU:H	1.55	0.71
2:NA:116:ASP:OD1	2:NA:117:LEU:N	2.23	0.71
2:NG:11:GLN:HB2	2:NG:74:VAL:HG11	1.70	0.71
1:NJ:215:LEU:HB3	1:NJ:217:LEU:HD23	1.72	0.71
2:PE:340:THR:HG23	2:PE:341:ILE:HD12	1.72	0.71
2:Q:268:VAL:HG12	2:Q:380:ASN:HB2	1.71	0.71
2:RD:372:GLN:NE2	41:2e:364:ASN:OD1	2.22	0.71
1:RI:267:MET:N	1:RI:369:GLY:O	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SH:347:ASN:ND2	2:SI:178:SER:OG	2.22	0.71
2:UK:204:LEU:HD22	2:UK:231:ILE:HD12	1.71	0.71
2:VC:174:SER:OG	2:VC:177:VAL:O	2.08	0.71
2:WG:195:LEU:HD23	2:WG:264:ARG:HE	1.55	0.71
3:XF:64:ASN:HB3	3:XF:67:GLN:HG2	1.72	0.71
44:2w:339:GLN:HG3	44:2w:352:ALA:HB1	1.71	0.71
47:3D:218:GLY:N	47:3D:371:GLU:OE2	2.24	0.71
57:3g:34:LEU:HG	57:3g:38:ARG:HH12	1.55	0.71
2:AC:175:PRO:O	2:AC:394:LYS:NZ	2.22	0.71
2:BA:225:THR:O	2:BA:229:ARG:HG3	1.91	0.71
1:BN:371:ASN:ND2	1:BN:373:CYS:SG	2.63	0.71
2:EA:377:MET:HE3	2:EA:379:ALA:HB2	1.71	0.71
1:EH:301:GLN:HE22	1:EH:303:ALA:HB3	1.53	0.71
1:FD:200:MET:HB3	1:FD:268:MET:HE2	1.71	0.71
2:FG:199:ASP:OD2	2:FG:256:GLN:NE2	2.23	0.71
2:FK:213:THR:HG23	2:FK:217:LEU:HD23	1.73	0.71
1:G:324:LYS:HZ1	2:GA:221:ARG:HA	1.55	0.71
2:GA:104:ALA:HB2	2:GA:413:MET:HG2	1.72	0.71
2:HG:269:LEU:HD21	2:HG:384:ILE:HG22	1.72	0.71
2:II:212:LEU:HD21	2:II:275:VAL:HG11	1.71	0.71
1:IJ:219:THR:H	7:0D:196:SER:HB2	1.54	0.71
2:KD:1:MET:HE1	15:0f:259:CYS:HB3	1.72	0.71
1:KE:173:PRO:HA	1:KE:176:SER:HB3	1.73	0.71
1:LM:345:ILE:HG23	1:LM:348:ASN:HD21	1.56	0.71
1:M:346:PRO:O	2:MA:394:LYS:NZ	2.24	0.71
1:NJ:324:LYS:HD2	2:NK:210:TYR:HB3	1.70	0.71
2:OE:1:MET:HG3	2:OE:2:ARG:HH12	1.52	0.71
1:P:66:MET:HE2	1:P:147:MET:HE3	1.71	0.71
2:PE:276:VAL:HG13	2:PE:280:LYS:HB2	1.72	0.71
2:QJ:76:ASP:OD1	2:QJ:79:ARG:NH1	2.23	0.71
3:XB:148:TYR:HH	3:XB:151:THR:HG1	1.37	0.71
24:1K:136:GLN:HB2	24:1K:139:SER:HB3	1.72	0.71
26:1Q:488:LYS:HG3	26:1Q:490:GLY:H	1.55	0.71
41:2l:389:MET:SD	41:2l:392:ARG:NH1	2.63	0.71
66:5K:91:TYR:O	66:5K:124:ARG:NH2	2.24	0.71
1:BF:203:ASP:HB3	1:BF:301:GLN:HA	1.70	0.71
1:BF:267:MET:HG2	1:BF:301:GLN:HE22	1.56	0.71
1:BL:77:ARG:HH22	24:1J:226:ILE:HG12	1.55	0.71
2:D:258:ASN:HD21	1:DA:178:THR:HG23	1.56	0.71
2:DD:180:ALA:HB3	2:DD:183:GLU:HB2	1.73	0.71
1:DG:268:MET:HB3	1:DG:300:MET:HB2	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FB:347:ASN:HD22	2:FC:178:SER:HG	1.37	0.71
1:HJ:163:ILE:HD11	1:HJ:251:ARG:HE	1.55	0.71
1:IH:304:ASP:OD1	1:IH:306:ARG:NH2	2.22	0.71
1:JG:164:MET:HB2	1:JG:197:ASP:H	1.56	0.71
2:MC:3:GLU:HA	2:MC:51:THR:HA	1.73	0.71
2:MK:176:GLN:HE22	14:0d:59:PRO:HD2	1.56	0.71
1:MN:11:GLN:O	1:MN:15:GLN:NE2	2.24	0.71
1:NB:60:VAL:HG11	1:NB:86:ARG:HG3	1.72	0.71
1:ND:256:ASN:HD21	2:NE:101:ASN:HD22	1.37	0.71
2:QL:115:VAL:HG21	2:QL:152:LEU:HD22	1.72	0.71
2:RJ:71:GLU:HB3	2:RJ:98:ASP:HB2	1.72	0.71
1:SF:125:GLU:OE1	1:TF:336:LYS:NZ	2.17	0.71
2:SK:89:PRO:HB2	61:3x:92:LEU:HD22	1.73	0.71
1:WF:198:GLU:HB2	1:WF:266:PHE:HE2	1.55	0.71
4:XQ:80:ALA:O	4:XQ:85:ARG:NH1	2.24	0.71
9:0N:327:VAL:HA	9:0N:344:CYS:HB3	1.72	0.71
10:0R:71:ARG:HD2	46:3B:240:TYR:HE2	1.54	0.71
12:0W:100:ILE:HG12	12:0W:174:THR:HG22	1.72	0.71
16:0l:898:GLN:HB3	16:0l:902:ARG:HH12	1.55	0.71
23:1A:107:ASN:ND2	25:1O:5:VAL:O	2.23	0.71
41:2c:307:GLU:O	41:2c:311:GLN:NE2	2.24	0.71
41:2c:360:LEU:O	41:2c:364:ASN:ND2	2.24	0.71
41:2i:364:ASN:HD22	41:2i:368:HIS:HE1	1.35	0.71
43:2t:244:VAL:HG21	43:2t:329:GLU:HG2	1.72	0.71
60:3r:35:ASP:OD1	60:3r:37:ARG:NH2	2.23	0.71
1:A:207:LEU:HD13	1:A:225:LEU:HB3	1.71	0.71
1:BB:256:ASN:HD21	2:BC:101:ASN:HD22	1.37	0.71
2:C:199:ASP:OD2	2:C:256:GLN:NE2	2.23	0.71
2:DH:27:GLU:OE1	2:DH:243:ARG:NH2	2.24	0.71
1:DM:308:GLY:HA3	1:DM:373:CYS:HB3	1.72	0.71
2:EK:191:THR:HG21	2:EK:425:LEU:HD13	1.71	0.71
1:GD:163:ILE:HD11	1:GD:251:ARG:HD3	1.71	0.71
1:GH:154:LYS:NZ	68:5T:133:SER:OG	2.24	0.71
1:GJ:211:CYS:HB3	1:GJ:220:PRO:HG3	1.73	0.71
1:I:35:THR:HG22	1:I:58:ARG:HH11	1.56	0.71
2:JH:326:LYS:HZ3	1:JI:220:PRO:HD2	1.53	0.71
1:KC:322:SER:OG	1:KC:325:GLU:OE1	2.05	0.71
2:LH:218:ASP:OD1	35:2N:264:TRP:NE1	2.23	0.71
1:M:322:SER:OG	2:MA:222:PRO:O	2.08	0.71
1:OH:202:ILE:HD12	1:OH:300:MET:HE2	1.72	0.71
2:PK:71:GLU:HB3	2:PK:98:ASP:HB3	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QA:347:ASN:ND2	2:QB:178:SER:OG	2.24	0.71
1:QA:377:MET:HG2	1:QA:380:ARG:HH22	1.55	0.71
2:QH:60:LYS:HE3	2:RH:282:TYR:CE1	2.24	0.71
2:QL:50:ASN:O	2:QL:64:ARG:NH1	2.24	0.71
2:RH:90:GLU:OE2	2:RH:121:ARG:NH1	2.24	0.71
2:RL:238:LEU:HD11	2:RL:378:ILE:HD11	1.71	0.71
1:SB:248:SER:HA	1:SB:252:LYS:HD2	1.71	0.71
2:SG:16:VAL:HG12	2:SG:228:ASN:HD22	1.56	0.71
2:SK:119:LEU:HD22	61:3x:106:HIS:CE1	2.25	0.71
1:TD:178:THR:HB	1:TD:181:GLU:HG3	1.73	0.71
2:UC:319:TYR:HB3	2:UC:323:VAL:HG21	1.71	0.71
2:UE:116:ASP:OD1	2:UE:117:LEU:N	2.23	0.71
1:VD:232:VAL:HG11	1:VD:300:MET:HE1	1.72	0.71
2:WG:392:ASP:HB3	2:WG:425:LEU:HD23	1.73	0.71
9:0N:412:GLN:HB2	9:0N:415:ARG:HB3	1.71	0.71
19:0r:305:ALA:HB2	23:1A:55:PRO:HB3	1.72	0.71
31:1q:249:VAL:HG11	22:1w:244:LYS:HD3	1.71	0.71
22:1x:40:HIS:HE1	22:1x:47:CYS:SG	2.12	0.71
35:2N:254:THR:HG23	35:2N:258:MET:HE2	1.72	0.71
41:2l:264:ALA:O	41:2l:268:GLN:NE2	2.23	0.71
64:5D:79:LYS:HB2	65:5I:69:LEU:HD22	1.72	0.71
67:5O:7:VAL:HB	67:5O:79:THR:HB	1.72	0.71
1:AJ:301:GLN:HE22	1:AJ:303:ALA:HB3	1.55	0.71
2:BG:258:ASN:ND2	1:BH:99:ASN:HD22	1.89	0.71
1:DM:178:THR:HB	1:DM:181:GLU:HG3	1.72	0.71
2:EA:254:GLU:OE2	1:EB:99:ASN:ND2	2.23	0.71
2:EC:392:ASP:HB3	2:EC:425:LEU:HD23	1.70	0.71
1:GB:201:CYS:SG	1:GB:301:GLN:NE2	2.64	0.71
2:GC:265:ILE:HG22	2:GC:380:ASN:HD21	1.56	0.71
2:GE:319:TYR:HB3	2:GE:323:VAL:HG21	1.71	0.71
1:GL:267:MET:HE3	1:GL:301:GLN:HE21	1.54	0.71
2:IC:180:ALA:HB3	2:IC:183:GLU:HB2	1.72	0.71
1:IL:163:ILE:HG21	1:IL:250:LEU:HB3	1.72	0.71
1:IL:245:GLN:NE2	2:IM:223:SER:OG	2.22	0.71
1:IL:267:MET:HG3	1:IL:299:MET:HE3	1.73	0.71
1:JA:416:ASN:CG	60:3r:48:ILE:N	2.49	0.71
1:LO:131:GLN:HE22	1:LO:250:LEU:HB2	1.55	0.71
2:NG:326:LYS:HZ2	1:NH:220:PRO:HG2	1.56	0.71
1:OH:48:ASN:O	1:OH:62:ARG:NH1	2.23	0.71
2:QJ:172:TYR:HD2	2:QJ:203:MET:HG3	1.54	0.71
1:RK:4:ILE:HB	1:RK:50:TYR:HE1	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SA:26:LEU:HD12	2:SA:363:VAL:HG12	1.72	0.71
2:UE:96:LYS:HE3	62:4B:190:PRO:HG3	1.73	0.71
1:VB:67:ASP:OD2	1:VB:72:THR:OG1	2.08	0.71
1:W:167:PHE:HD1	1:W:233:MET:HE2	1.56	0.71
24:1I:447:VAL:HG22	24:1I:454:VAL:HG12	1.72	0.71
31:1r:235:PRO:HG2	31:1r:238:SER:HB3	1.73	0.71
43:2t:251:LYS:NZ	43:2t:337:CYS:O	2.24	0.71
48:3I:36:LEU:HD11	48:3I:49:LYS:HE2	1.72	0.71
2:AC:51:THR:HG21	2:AC:243:ARG:HG2	1.73	0.71
2:AM:387:VAL:HG12	2:AM:390:ARG:HH22	1.55	0.71
2:D:269:LEU:HD13	2:D:301:MET:HE1	1.72	0.71
1:DI:289:LEU:HD11	1:DI:363:MET:HG3	1.71	0.71
2:FK:326:LYS:NZ	1:FL:220:PRO:O	2.23	0.71
1:FL:148:GLY:O	1:FL:152:ILE:HG12	1.91	0.71
2:GA:269:LEU:HD21	2:GA:305:CYS:HB2	1.73	0.71
2:GI:89:PRO:HD3	2:HI:283:HIS:CD2	2.25	0.71
1:GJ:320:ARG:NH2	43:2t:380:GLU:OE2	2.24	0.71
2:HM:119:LEU:HD21	2:HM:156:ARG:HB3	1.73	0.71
1:JG:238:CYS:HA	1:JG:241:ARG:HH21	1.55	0.71
1:KC:355:ASP:OD2	15:0f:225:THR:N	2.22	0.71
2:KJ:2:ARG:NH2	1:KK:74:ASP:OD2	2.24	0.71
1:LM:344:TRP:CG	2:LN:401:LYS:HZ1	2.08	0.71
2:MC:71:GLU:HB3	2:MC:98:ASP:HB3	1.71	0.71
1:MH:202:ILE:HD12	1:MH:300:MET:HE2	1.73	0.71
2:OA:9:ILE:HG13	2:OA:139:HIS:HB3	1.73	0.71
1:OD:19:LYS:HD3	1:OD:226:ASN:HB2	1.72	0.71
2:OE:119:LEU:HD21	2:OE:156:ARG:HB3	1.71	0.71
2:OK:282:TYR:HD2	41:2o:190:TRP:HZ3	1.39	0.71
1:PB:268:MET:HE1	1:PB:368:ILE:HG23	1.73	0.71
2:PC:50:ASN:O	2:PC:64:ARG:NH1	2.24	0.71
2:RH:27:GLU:OE1	2:RH:243:ARG:NH2	2.24	0.71
1:UF:33:THR:HG21	8:0I:110:ARG:HG3	1.73	0.71
2:WA:174:SER:OG	2:WA:177:VAL:O	2.07	0.71
40:2Z:117:GLU:HA	40:2Z:120:LEU:HB2	1.72	0.71
2:DF:180:ALA:HB3	2:DF:183:GLU:HB2	1.73	0.71
1:DK:247:ASN:H	2:DL:11:GLN:HE22	1.38	0.71
2:GC:97:GLU:OE2	2:GC:105:ARG:NH2	2.24	0.71
2:GI:71:GLU:HB3	2:GI:98:ASP:HB3	1.73	0.71
1:HJ:341:PHE:HB3	1:HJ:348:ASN:HD22	1.56	0.71
2:JD:298:PRO:HA	2:JD:301:MET:HE3	1.73	0.71
2:JL:174:SER:OG	2:JL:177:VAL:O	2.07	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KC:350:LYS:NZ	1:KC:352:SER:OG	2.24	0.71
1:LA:301:GLN:HE22	1:LA:303:ALA:HB3	1.56	0.71
1:LG:347:ASN:ND2	2:LH:178:SER:OG	2.23	0.71
2:LH:244:PHE:HB3	19:0r:293:PHE:O	1.91	0.71
2:MG:27:GLU:OE1	2:MG:243:ARG:NH2	2.24	0.71
2:MG:254:GLU:O	2:MG:258:ASN:ND2	2.24	0.71
2:NC:258:ASN:HD21	1:ND:99:ASN:HD22	1.36	0.71
1:NH:21:TRP:NE1	1:NH:61:PRO:HB3	2.06	0.71
1:NL:200:MET:N	1:NL:200:MET:SD	2.62	0.71
1:NL:249:ASP:H	1:NL:252:LYS:HB3	1.56	0.71
1:OL:183:TYR:OH	1:OL:393:ALA:O	2.08	0.71
1:P:207:LEU:HB3	1:P:225:LEU:HD22	1.73	0.71
2:QD:59:GLY:N	41:2e:361:GLN:OE1	2.24	0.71
2:RB:215:ARG:NH2	2:RB:299:ALA:O	2.24	0.71
2:RJ:319:TYR:HB3	2:RJ:323:VAL:HG11	1.73	0.71
2:UA:174:SER:HB2	2:UA:207:GLU:HG2	1.73	0.71
2:VI:203:MET:HE1	2:VI:387:VAL:HG21	1.71	0.71
1:WL:237:THR:OG1	1:WL:241:ARG:NH1	2.23	0.71
2:WM:392:ASP:HB3	2:WM:425:LEU:HD23	1.72	0.71
6:0:19:ILE:HG21	6:0:152:ILE:HG13	1.71	0.71
8:0I:238:LYS:O	8:0I:242:ILE:HG12	1.91	0.71
64:5C:93:LYS:HB3	65:5H:83:TYR:CZ	2.26	0.71
1:A:117:LEU:HD11	1:A:154:LYS:HG2	1.72	0.70
1:AJ:377:MET:HA	1:AJ:380:ARG:HG2	1.71	0.70
2:BK:116:ASP:OD1	2:BK:117:LEU:N	2.24	0.70
1:DK:301:GLN:HE22	1:DK:303:ALA:HB3	1.55	0.70
1:GD:347:ASN:ND2	2:GE:178:SER:OG	2.23	0.70
1:IF:268:MET:HE1	1:IF:368:ILE:HG23	1.73	0.70
1:JE:107:THR:OG1	1:JE:401:GLU:OE2	2.06	0.70
2:KL:123:ARG:NH2	2:KL:160:ASP:OD2	2.24	0.70
1:LA:191:GLN:O	1:LA:195:ASN:HB2	1.91	0.70
1:MD:37:GLN:HB2	45:2y:257:ARG:HH12	1.56	0.70
1:MH:193:VAL:HG11	1:MH:262:ARG:HH21	1.56	0.70
1:MJ:42:LEU:HD22	1:MJ:356:ILE:HD11	1.71	0.70
1:NB:156:ARG:NH2	1:NB:197:ASP:OD1	2.22	0.70
2:NC:318:MET:O	2:NC:375:VAL:HA	1.90	0.70
2:OK:339:ARG:HH21	2:OK:342:GLN:HA	1.56	0.70
2:PI:174:SER:OG	2:PI:177:VAL:O	2.09	0.70
1:SJ:293:MET:HE2	1:SJ:365:VAL:HG11	1.72	0.70
2:UI:105:ARG:HG3	2:UI:411:GLU:HG3	1.73	0.70
1:V:159:TYR:HB3	1:V:162:ARG:HG2	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VD:207:LEU:HB3	1:VD:225:LEU:HD22	1.73	0.70
2:VE:174:SER:OG	2:VE:177:VAL:O	2.08	0.70
2:VI:51:THR:HG21	2:VI:243:ARG:HG2	1.72	0.70
2:VM:174:SER:OG	2:VM:177:VAL:O	2.09	0.70
1:WL:11:GLN:NE2	69:WL:500:GDP:O1A	2.22	0.70
8:0J:367:GLU:O	8:0J:371:GLN:NE2	2.23	0.70
28:1g:256:VAL:HG22	28:1h:17:THR:CG2	2.21	0.70
28:1h:159:GLN:O	28:1h:161:ARG:NH1	2.24	0.70
31:1t:165:HIS:HB2	22:1y:193:ARG:NH2	2.05	0.70
22:1y:146:ASP:CG	33:2I:221:GLU:OE2	2.34	0.70
44:2v:348:ALA:O	49:3P:416:ARG:NH2	2.24	0.70
2:AC:11:GLN:NE2	2:AC:15:GLN:HE22	1.88	0.70
2:AG:55:GLU:O	2:BG:285:GLN:NE2	2.24	0.70
1:AH:19:LYS:CE	1:AH:226:ASN:HB3	2.21	0.70
2:BG:53:PHE:HB3	2:BG:61:HIS:HB3	1.73	0.70
2:BK:194:LEU:O	2:BK:198:THR:HB	1.89	0.70
1:CE:66:MET:HE2	1:CE:147:MET:HE3	1.72	0.70
1:EF:324:LYS:HZ1	2:EG:210:TYR:HB3	1.56	0.70
2:EI:258:ASN:OD1	2:EI:352:LYS:NZ	2.24	0.70
2:HG:339:ARG:HH22	65:5H:114:VAL:HG13	1.54	0.70
2:IE:97:GLU:OE1	2:IE:105:ARG:NH2	2.20	0.70
1:IL:16:ILE:HD11	1:IL:229:VAL:HB	1.73	0.70
1:JM:237:THR:OG1	1:JM:241:ARG:NH1	2.24	0.70
2:JN:174:SER:OG	2:JN:177:VAL:O	2.09	0.70
1:LM:113:ILE:HA	1:LM:116:VAL:HG22	1.73	0.70
1:ND:165:MET:HE1	1:ND:200:MET:HE3	1.73	0.70
2:NE:174:SER:HB2	2:NE:207:GLU:HG3	1.72	0.70
1:OD:371:ASN:ND2	1:OD:373:CYS:SG	2.64	0.70
1:OL:311:LEU:HD12	1:OL:342:ILE:HD13	1.72	0.70
1:TL:49:VAL:HG11	1:TL:241:ARG:HG2	1.73	0.70
1:TL:330:MET:HG2	1:TL:349:ILE:HG12	1.73	0.70
2:VK:50:ASN:O	2:VK:64:ARG:NH1	2.24	0.70
16:0l:932:PHE:O	16:0l:936:GLN:NE2	2.24	0.70
23:1E:53:LYS:NZ	23:1F:394:ASP:O	2.21	0.70
38:2U:83:THR:HG23	38:2U:85:HIS:CE1	2.26	0.70
1:A:377:MET:HA	1:A:380:ARG:HG2	1.73	0.70
1:AF:326:VAL:HG11	1:AF:353:ILE:HD11	1.72	0.70
1:CM:261:PRO:HD2	1:CM:262:ARG:H	1.55	0.70
1:CM:262:ARG:NH2	1:CM:414:ASN:OD1	2.25	0.70
1:GB:273:LEU:H	1:GB:292:GLN:HE22	1.39	0.70
2:IC:174:SER:OG	2:IC:177:VAL:O	2.09	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IG:310:GLY:HA3	2:IG:383:ALA:HB2	1.73	0.70
1:IH:178:THR:HB	1:IH:181:GLU:HG3	1.73	0.70
2:JF:116:ASP:OD1	2:JF:117:LEU:N	2.25	0.70
1:JM:114:ASP:OD1	1:JM:115:SER:N	2.24	0.70
1:KG:33:THR:O	45:2y:390:ARG:NH2	2.24	0.70
2:KH:329:ASN:HA	2:KH:332:ILE:HD12	1.74	0.70
1:KK:22:GLU:HG2	1:KK:81:TYR:CE2	2.27	0.70
2:OM:392:ASP:OD1	2:OM:422:ARG:NH1	2.23	0.70
1:P:152:ILE:HA	1:P:164:MET:HE2	1.74	0.70
1:P:212:PHE:HB3	1:P:213:ARG:NH2	2.05	0.70
2:PC:259:LEU:O	2:PC:380:ASN:ND2	2.23	0.70
2:PM:53:PHE:HB3	2:PM:61:HIS:HB3	1.72	0.70
1:RI:48:ASN:O	1:RI:62:ARG:NH2	2.24	0.70
1:RK:248:SER:HA	1:RK:252:LYS:HE2	1.73	0.70
2:SC:53:PHE:HB3	2:SC:61:HIS:HB3	1.74	0.70
2:SI:392:ASP:HB3	2:SI:425:LEU:HD23	1.74	0.70
1:SJ:284:LEU:HD21	1:SJ:363:MET:HB2	1.72	0.70
2:TA:254:GLU:O	2:TA:258:ASN:ND2	2.24	0.70
2:TC:254:GLU:HA	1:TD:98:GLY:HA2	1.73	0.70
4:XQ:6:ILE:HB	9:0N:236:MET:HE3	1.73	0.70
22:1x:65:THR:HG22	22:1x:67:ASN:H	1.57	0.70
32:2C:219:VAL:HG11	33:2H:173:GLN:HB3	1.72	0.70
44:2w:297:MET:HA	44:2w:300:ILE:HG22	1.73	0.70
1:BN:375:GLN:NE2	1:BN:426:GLN:OE1	2.24	0.70
2:DB:192:HIS:NE2	2:DB:424:ASP:OD2	2.25	0.70
1:DE:186:THR:HA	1:DE:415:MET:HE3	1.72	0.70
2:FA:239:THR:OG1	2:FA:243:ARG:NH1	2.24	0.70
2:FE:364:PRO:HB3	28:4W:88:LYS:HB2	1.72	0.70
1:FF:232:VAL:HG21	1:FF:300:MET:HE1	1.73	0.70
1:GJ:345:ILE:HG23	2:GK:398:MET:HE2	1.72	0.70
2:GK:180:ALA:HB3	2:GK:183:GLU:HB2	1.73	0.70
2:JD:326:LYS:HZ1	1:JE:219:THR:HA	1.55	0.70
1:JK:139:LEU:HD12	1:JK:170:ILE:HG13	1.73	0.70
1:LK:70:PRO:HG3	1:LK:92:PHE:HB2	1.74	0.70
2:LN:326:LYS:HE3	1:LO:208:TYR:HB3	1.73	0.70
2:OI:195:LEU:HD22	2:OI:428:LEU:HD22	1.72	0.70
2:QF:265:ILE:HG22	2:QF:380:ASN:HD21	1.55	0.70
2:RB:286:LEU:O	2:RB:373:ARG:NH1	2.25	0.70
1:RG:151:LEU:HD12	1:RG:155:LEU:HD13	1.73	0.70
2:RL:88:ASN:ND2	2:SK:284:GLU:OE2	2.23	0.70
1:S:49:VAL:HG11	1:S:241:ARG:HG2	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SD:207:LEU:HB3	1:SD:225:LEU:HD22	1.72	0.70
1:TH:328:GLU:OE2	1:TH:332:ASN:ND2	2.24	0.70
1:TL:32:PRO:HD3	1:TL:81:TYR:HE2	1.56	0.70
1:UD:270:PHE:O	1:UD:298:ASN:ND2	2.22	0.70
1:VF:322:SER:OG	1:VF:325:GLU:OE1	2.08	0.70
1:W:237:THR:HG22	1:W:250:LEU:HD21	1.73	0.70
1:WB:58:ARG:NH2	1:WB:83:GLN:O	2.24	0.70
4:XM:28:ALA:CB	4:XM:32:GLY:O	2.38	0.70
9:0N:35:LEU:O	9:0N:45:ILE:HA	1.89	0.70
27:1S:684:THR:HG21	27:1S:709:ARG:HH12	1.56	0.70
44:2v:26:CYS:HB3	44:2v:134:ILE:HD13	1.73	0.70
44:2v:292:ASP:HB2	44:2v:295:VAL:HG12	1.71	0.70
59:4P:1:MET:HE3	59:4P:5:PRO:HB3	1.73	0.70
66:5L:121:VAL:HG21	66:5L:189:THR:HG21	1.73	0.70
2:BE:225:THR:HG22	2:BE:229:ARG:HH21	1.56	0.70
2:CB:288:VAL:HB	2:CB:327:ASP:HB3	1.73	0.70
1:FF:3:GLU:HG3	1:FF:127:CYS:HB2	1.73	0.70
2:FG:109:THR:HG23	2:FG:110:ILE:HG12	1.73	0.70
1:G:253:LEU:HD21	1:G:316:LEU:HD21	1.73	0.70
1:HL:324:LYS:NZ	2:HM:222:PRO:O	2.25	0.70
2:IG:108:TYR:O	2:IG:112:LYS:NZ	2.22	0.70
2:K:316:CYS:HB2	2:K:378:ILE:HB	1.72	0.70
2:KN:167:LEU:HD21	2:KN:255:PHE:HZ	1.56	0.70
2:LF:173:PRO:HG3	2:LF:183:GLU:HG2	1.71	0.70
2:ME:319:TYR:HB3	2:ME:323:VAL:HG21	1.73	0.70
1:MF:211:CYS:HA	1:MF:215:LEU:HB2	1.73	0.70
1:P:11:GLN:NE2	69:P:500:GDP:O2A	2.24	0.70
2:PM:286:LEU:O	2:PM:373:ARG:NH1	2.24	0.70
2:QD:377:MET:HE2	2:QD:379:ALA:HB2	1.71	0.70
2:QH:318:MET:O	2:QH:375:VAL:HA	1.92	0.70
2:SK:219:ILE:HG23	2:SK:222:PRO:HG3	1.72	0.70
1:UL:309:ARG:NH2	1:UL:426:GLN:O	2.24	0.70
9:0M:373:GLN:HG2	9:0M:428:VAL:HG23	1.73	0.70
10:0R:306:LYS:HE2	10:0R:310:MET:HE3	1.73	0.70
20:0u:128:PRO:HG2	20:0u:131:GLU:HB2	1.74	0.70
21:0w:157:LEU:HD22	21:0x:513:ILE:HG12	1.71	0.70
24:1I:192:LYS:HE3	24:1I:198:VAL:HG12	1.73	0.70
22:1x:75:CYS:SG	22:1x:132:HIS:HB2	2.31	0.70
1:AF:186:THR:HG22	1:AF:411:ALA:HB1	1.74	0.70
1:BB:371:ASN:ND2	1:BB:373:CYS:SG	2.65	0.70
1:BH:268:MET:H	1:BH:301:GLN:HE22	1.40	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BL:152:ILE:HD13	1:BL:164:MET:HE2	1.74	0.70
2:BM:178:SER:OG	2:BM:183:GLU:OE2	2.07	0.70
2:BM:217:LEU:HD21	2:BM:275:VAL:HG22	1.73	0.70
1:CI:330:MET:HA	1:CI:333:VAL:HG22	1.73	0.70
1:DI:133:PHE:HD1	1:DI:164:MET:HE1	1.56	0.70
1:E:372:THR:HG21	1:E:426:GLN:HB2	1.73	0.70
2:EA:217:LEU:HD21	2:EA:275:VAL:HG22	1.74	0.70
1:G:28:HIS:C	1:G:43:GLN:HE21	1.99	0.70
2:HE:105:ARG:HH11	2:HE:110:ILE:HD11	1.57	0.70
2:JN:413:MET:HE1	2:JN:417:GLU:HB2	1.74	0.70
2:KJ:219:ILE:HG12	2:KJ:222:PRO:HD3	1.73	0.70
1:LC:362:LYS:HZ1	23:1E:330:TRP:CG	2.09	0.70
1:LE:299:MET:O	15:0f:269:ARG:NH1	2.21	0.70
1:LG:246:LEU:HA	2:LH:11:GLN:OE1	1.92	0.70
2:LH:254:GLU:OE2	1:LI:99:ASN:ND2	2.24	0.70
2:MC:173:PRO:HG3	2:MC:183:GLU:HG2	1.73	0.70
2:NK:205:ASP:OD2	2:NK:303:THR:OG1	2.08	0.70
1:O:267:MET:HG3	1:O:268:MET:N	2.07	0.70
1:OB:245:GLN:HB2	1:OB:353:ILE:HB	1.74	0.70
1:OF:218:THR:HG22	1:OF:219:THR:HG23	1.73	0.70
1:RE:256:ASN:HD22	1:RE:350:LYS:HD3	1.57	0.70
1:UB:296:ALA:HB2	1:UB:306:ARG:HH12	1.57	0.70
1:V:350:LYS:HZ3	2:VA:181:VAL:H	1.37	0.70
1:W:375:GLN:NE2	1:W:426:GLN:OE1	2.24	0.70
2:WI:26:LEU:HD12	2:WI:363:VAL:HG12	1.74	0.70
3:XD:34:VAL:HG13	3:XD:49:ILE:HG12	1.73	0.70
6:0:18:GLU:OE1	6:0:220:ARG:NH1	2.25	0.70
33:2H:168:PRO:HD2	33:2H:238:PHE:HD2	1.55	0.70
35:2O:22:HIS:HE1	35:2O:36:HIS:HB3	1.57	0.70
54:3Z:340:VAL:HG12	54:3Z:342:MET:HG2	1.72	0.70
1:AF:87:PRO:HD3	1:BF:281:TYR:HD2	1.57	0.70
2:BA:319:TYR:HB3	2:BA:323:VAL:HG21	1.74	0.70
2:BI:336:LYS:O	2:BI:339:ARG:NH2	2.23	0.70
2:CF:180:ALA:HB3	2:CF:183:GLU:HB2	1.73	0.70
2:EC:26:LEU:HD21	2:EC:364:PRO:HD3	1.72	0.70
2:EI:180:ALA:HB3	2:EI:183:GLU:HB2	1.72	0.70
1:GH:68:LEU:HD12	1:GH:97:ALA:HB2	1.73	0.70
1:HJ:15:GLN:NE2	69:HJ:500:GDP:O6	2.25	0.70
1:I:323:THR:HA	1:I:326:VAL:HG12	1.72	0.70
2:IE:27:GLU:OE1	2:IE:243:ARG:NH2	2.24	0.70
1:IF:66:MET:HE3	1:IF:116:VAL:HG21	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JD:258:ASN:ND2	2:JD:352:LYS:HD3	2.07	0.70
1:KM:207:LEU:HD13	1:KM:225:LEU:HB3	1.72	0.70
2:LH:282:TYR:OH	35:2N:261:HIS:ND1	2.18	0.70
2:MI:81:GLY:O	2:MI:84:ARG:NH1	2.25	0.70
1:NF:163:ILE:HG21	1:NF:250:LEU:HB3	1.74	0.70
2:NK:288:VAL:HG11	2:NK:327:ASP:HB3	1.73	0.70
1:O:286:VAL:HG21	1:O:325:GLU:HB3	1.72	0.70
2:PI:319:TYR:HB3	2:PI:323:VAL:HG21	1.72	0.70
2:Q:2:ARG:NH1	2:Q:251:ASP:OD2	2.25	0.70
1:QK:324:LYS:NZ	2:QL:210:TYR:HB3	2.07	0.70
2:RD:224:TYR:HA	2:RD:227:VAL:HG12	1.72	0.70
1:SJ:27:GLU:OE2	1:SJ:318:ARG:NH2	2.25	0.70
2:UE:172:TYR:HD2	2:UE:203:MET:HG3	1.56	0.70
1:VF:293:MET:HE2	1:VF:365:VAL:HG11	1.72	0.70
1:VF:347:ASN:ND2	2:VG:178:SER:OG	2.24	0.70
2:WE:212:LEU:HD21	2:WE:275:VAL:HG11	1.74	0.70
1:WL:262:ARG:NH2	1:WL:414:ASN:OD1	2.24	0.70
3:X:115:LYS:HG3	3:X:116:PRO:HD2	1.74	0.70
11:0U:224:GLY:O	46:3B:41:GLN:NE2	2.25	0.70
13:0Z:71:LYS:HE2	13:0Z:74:GLY:HA2	1.73	0.70
1:AL:377:MET:HA	1:AL:380:ARG:HG2	1.74	0.70
2:BA:71:GLU:HB2	2:BA:98:ASP:HB3	1.72	0.70
1:DC:207:LEU:HB3	1:DC:225:LEU:HD22	1.73	0.70
2:FG:51:THR:HG21	2:FG:243:ARG:HG2	1.73	0.70
2:FG:219:ILE:HG22	42:2r:365:THR:HA	1.72	0.70
1:GL:35:THR:OG1	1:GL:37:GLN:NE2	2.23	0.70
1:HB:248:SER:HA	1:HB:252:LYS:HG3	1.72	0.70
1:IJ:170:ILE:HD12	1:IJ:377:MET:HG2	1.73	0.70
2:JH:224:TYR:HA	2:JH:227:VAL:HG22	1.71	0.70
1:KM:260:PHE:HB2	1:KM:263:LEU:HD23	1.72	0.70
1:LE:301:GLN:HB2	1:LE:377:MET:HE1	1.74	0.70
1:LI:3:GLU:O	1:LI:131:GLN:N	2.24	0.70
2:LN:174:SER:OG	2:LN:177:VAL:O	2.09	0.70
1:MD:236:VAL:HG23	1:MD:237:THR:HG23	1.74	0.70
1:NB:10:GLY:HA2	1:NB:143:THR:HG23	1.73	0.70
1:NB:62:ARG:NH1	1:NB:127:CYS:SG	2.64	0.70
1:O:350:LYS:HZ3	2:OA:180:ALA:HA	1.57	0.70
2:QB:180:ALA:HB3	2:QB:183:GLU:HB2	1.72	0.70
1:QC:322:SER:OG	2:QD:222:PRO:O	2.09	0.70
1:RA:67:ASP:HB3	1:RA:73:MET:HE2	1.73	0.70
2:SE:339:ARG:HG2	59:3p:118:GLU:HA	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SI:173:PRO:HG3	2:SI:183:GLU:HG2	1.72	0.70
9:0O:181:VAL:HG22	9:0O:188:MET:HG3	1.72	0.70
23:1B:263:LEU:HB3	45:2z:122:LEU:HD13	1.74	0.70
26:1Q:546:THR:O	26:1Q:550:ARG:HG2	1.91	0.70
41:2c:307:GLU:HG3	41:2c:311:GLN:HE22	1.55	0.70
2:AE:326:LYS:HZ1	1:AF:219:THR:HA	1.55	0.70
1:AL:198:GLU:HB2	1:AL:266:PHE:HE2	1.57	0.70
1:CE:213:ARG:HH22	1:CE:297:LYS:HB2	1.56	0.70
2:CL:392:ASP:HB3	2:CL:425:LEU:HD23	1.72	0.70
1:E:251:ARG:NH1	2:EA:97:GLU:OE2	2.25	0.70
1:G:190:HIS:HA	1:G:415:MET:HE3	1.74	0.70
2:GA:158:SER:HA	2:GA:166:LYS:HE3	1.74	0.70
2:GI:174:SER:OG	2:GI:177:VAL:O	2.08	0.70
2:GK:69:ASP:O	2:GK:94:SER:HA	1.92	0.70
1:JA:416:ASN:ND2	60:3r:47:PRO:C	2.50	0.70
1:MD:295:ASP:OD2	1:MD:297:LYS:NZ	2.24	0.70
2:MK:220:GLU:O	2:MK:221:ARG:NH1	2.25	0.70
2:PG:213:THR:HG23	2:PG:217:LEU:HD23	1.72	0.70
2:QF:251:ASP:H	2:QF:254:GLU:HB3	1.57	0.70
2:QL:174:SER:OG	2:QL:177:VAL:O	2.07	0.70
1:SF:311:LEU:HA	1:SF:342:ILE:HD12	1.74	0.70
1:TB:322:SER:OG	1:TB:325:GLU:OE1	2.09	0.70
2:TK:212:LEU:HD21	2:TK:275:VAL:HG21	1.74	0.70
2:UC:1:MET:N	2:UC:3:GLU:OE2	2.23	0.70
1:VB:211:CYS:HB3	1:VB:220:PRO:HG3	1.73	0.70
1:WF:178:THR:HB	1:WF:181:GLU:HG3	1.72	0.70
3:XB:72:LYS:HD3	4:XO:129:ARG:HG2	1.74	0.70
51:X1:199:VAL:HG12	51:X1:202:GLY:H	1.57	0.70
2:AE:81:GLY:HA3	54:3Z:345:TYR:HE2	1.56	0.70
2:AG:288:VAL:HB	2:AG:327:ASP:HB3	1.71	0.70
2:BA:239:THR:OG1	2:BA:243:ARG:NH1	2.25	0.70
1:BD:318:ARG:HB3	1:BD:357:PRO:HA	1.74	0.70
2:BI:174:SER:OG	2:BI:177:VAL:O	2.10	0.70
2:BI:437:ALA:O	1:BJ:391:ARG:NH2	2.24	0.70
2:BM:221:ARG:NH1	16:0l:286:ASP:OD2	2.25	0.70
2:DD:50:ASN:O	2:DD:64:ARG:NH1	2.25	0.70
1:DG:209:ASP:HA	1:DG:212:PHE:HD2	1.57	0.70
2:DL:194:LEU:O	2:DL:198:THR:HB	1.92	0.70
1:F:311:LEU:HA	1:F:342:ILE:HD12	1.73	0.70
1:FF:242:PHE:HB3	1:FF:356:ILE:HD13	1.72	0.70
2:HC:224:TYR:HA	2:HC:227:VAL:HG22	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JD:178:SER:OG	2:JD:183:GLU:OE1	2.09	0.70
2:JH:265:ILE:HG22	2:JH:380:ASN:HD21	1.57	0.70
2:KB:46:ASP:HA	20:0t:253:ARG:HH21	1.56	0.70
1:LI:164:MET:HB2	1:LI:197:ASP:H	1.55	0.70
1:MD:331:LEU:HD12	2:ME:177:VAL:HB	1.73	0.70
2:MM:423:GLU:OE2	14:0d:249:LYS:NZ	2.22	0.70
2:NK:213:THR:HB	2:NK:219:ILE:HD11	1.73	0.70
1:O:175:VAL:HG23	1:O:205:GLU:HG3	1.74	0.70
1:OB:330:MET:HG2	1:OB:349:ILE:HG21	1.73	0.70
2:PI:209:ILE:HG12	2:PI:302:LEU:HD23	1.72	0.70
1:QA:356:ILE:CG2	28:1b:37:PHE:CE1	2.75	0.70
2:RJ:53:PHE:HB3	2:RJ:61:HIS:HB3	1.73	0.70
1:UD:89:ASN:ND2	1:UD:123:GLU:OE2	2.24	0.70
1:UF:252:LYS:NZ	71:UG:501:GTP:O1B	2.23	0.70
1:VB:317:PHE:HB3	1:VB:321:MET:HE1	1.73	0.70
1:WB:159:TYR:HB3	1:WB:162:ARG:HG3	1.74	0.70
7:0D:117:LEU:HA	7:0D:120:ARG:HE	1.56	0.70
20:0t:161:ILE:HB	20:0t:174:GLN:HG2	1.74	0.70
24:1J:647:ARG:NH1	24:1J:648:MET:HE3	2.04	0.70
28:1b:43:TYR:C	28:1b:45:ASP:H	2.00	0.70
41:2l:410:GLN:NE2	41:2l:414:ASP:OD2	2.25	0.70
49:3P:310:LEU:HD11	49:3P:370:VAL:HG11	1.74	0.70
1:A:332:ASN:OD1	1:A:336:LYS:NZ	2.25	0.69
1:A:379:ARG:HE	1:A:419:VAL:HG11	1.57	0.69
1:AJ:8:GLN:HG2	1:AJ:17:GLY:HA3	1.71	0.69
1:AJ:379:ARG:O	1:AJ:382:GLY:N	2.24	0.69
2:BA:116:ASP:OD2	2:BA:117:LEU:N	2.25	0.69
1:BH:252:LYS:HE2	1:BH:252:LYS:HA	1.75	0.69
1:CA:163:ILE:HD11	1:CA:251:ARG:HG3	1.74	0.69
1:DC:252:LYS:HE2	2:DD:100:ALA:HA	1.74	0.69
1:EB:152:ILE:HD11	1:EB:164:MET:HB3	1.74	0.69
1:EB:375:GLN:NE2	1:EB:426:GLN:OE1	2.25	0.69
2:HC:254:GLU:OE2	1:HD:99:ASN:ND2	2.25	0.69
1:ID:247:ASN:ND2	2:IE:73:THR:OG1	2.25	0.69
2:KD:213:THR:HG23	2:KD:217:LEU:HD23	1.74	0.69
2:LF:414:GLU:HB2	33:2G:230:ARG:HH22	1.55	0.69
2:LL:197:HIS:HE1	14:0d:118:VAL:CG1	2.04	0.69
1:LM:26:ASP:OD2	23:1F:392:TYR:OH	2.10	0.69
1:M:320:ARG:NH2	45:2y:149:GLN:O	2.25	0.69
1:N:3:GLU:H	1:N:131:GLN:H	1.38	0.69
2:NG:174:SER:OG	2:NG:177:VAL:O	2.10	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NL:346:PRO:O	2:NM:394:LYS:NZ	2.25	0.69
1:O:267:MET:HE2	1:O:299:MET:HE2	1.72	0.69
2:OE:326:LYS:NZ	1:OF:220:PRO:O	2.23	0.69
1:OF:279:GLN:OE1	41:2o:342:ASN:ND2	2.25	0.69
2:OM:45:GLU:OE2	41:2l:245:ARG:NH1	2.25	0.69
1:PH:226:ASN:OD1	69:PH:500:GDP:N1	2.24	0.69
2:Q:155:GLU:HG3	2:Q:197:HIS:CE1	2.27	0.69
1:RE:378:PHE:HB3	1:RE:415:MET:HE1	1.73	0.69
1:RI:345:ILE:O	1:RI:348:ASN:ND2	2.25	0.69
2:SG:51:THR:HG21	2:SG:243:ARG:HG2	1.73	0.69
2:TG:364:PRO:HD2	48:3L:437:MET:HE1	1.73	0.69
1:VF:248:SER:HA	1:VF:252:LYS:HD3	1.73	0.69
2:WC:251:ASP:H	2:WC:254:GLU:HB2	1.57	0.69
1:WH:217:LEU:HG	1:WH:220:PRO:HD3	1.72	0.69
3:X:102:ARG:HB2	3:X:118:ILE:HG12	1.73	0.69
6:0:99:ASP:O	6:0:103:LYS:HB2	1.92	0.69
9:0N:220:SER:O	9:0N:242:LYS:NZ	2.25	0.69
10:0R:253:GLU:O	10:0R:257:GLN:NE2	2.24	0.69
23:1D:79:ARG:NH2	44:2v:367:GLN:O	2.25	0.69
41:2k:190:TRP:HE1	41:2k:194:ARG:HE	1.39	0.69
64:5C:130:ARG:NH2	64:5C:133:GLU:OE2	2.25	0.69
66:5K:59:TRP:HB3	66:5K:72:LYS:HB3	1.74	0.69
66:5L:104:MET:HE2	66:5L:118:LEU:HD21	1.73	0.69
1:AN:48:ASN:O	1:AN:62:ARG:NH1	2.25	0.69
2:C:89:PRO:HG3	2:D:279:GLU:HG3	1.74	0.69
2:CJ:177:VAL:HB	2:CJ:207:GLU:HG2	1.73	0.69
1:DG:61:PRO:HD3	1:DG:84:LEU:HG	1.75	0.69
1:GL:236:VAL:HG13	1:GL:237:THR:HG23	1.72	0.69
2:IK:122:ILE:HG21	2:IK:157:LEU:HD11	1.74	0.69
2:JL:258:ASN:HB2	1:JM:179:VAL:HG22	1.74	0.69
2:LF:123:ARG:NH2	2:ME:297:GLU:OE2	2.25	0.69
1:LK:385:PHE:HZ	1:LK:408:PHE:HB3	1.57	0.69
1:MF:237:THR:HG23	1:MF:241:ARG:HE	1.56	0.69
2:QL:213:THR:HA	2:QL:217:LEU:HD13	1.75	0.69
2:RB:88:ASN:ND2	2:RB:91:GLN:OE1	2.24	0.69
1:SB:323:THR:HA	1:SB:326:VAL:HG12	1.73	0.69
1:SH:301:GLN:NE2	1:SH:377:MET:SD	2.64	0.69
2:SI:326:LYS:HD2	1:SJ:220:PRO:HD2	1.73	0.69
2:SI:422:ARG:HH12	2:SI:426:ALA:HB2	1.57	0.69
1:TB:209:ASP:OD1	1:TB:213:ARG:NH1	2.25	0.69
1:WD:29:GLY:O	1:WD:37:GLN:N	2.24	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:0u:192:GLU:HG2	20:0u:199:GLN:HG2	1.74	0.69
24:1H:479:ARG:NH2	24:1H:489:ASP:OD2	2.25	0.69
37:2S:180:ASN:CG	54:3Z:341:THR:OG1	2.35	0.69
64:5B:90:VAL:HA	64:5B:93:LYS:HD2	1.74	0.69
1:B:404:ASP:N	1:B:407:GLU:OE2	2.24	0.69
2:BG:56:THR:HG22	2:BG:58:ALA:H	1.56	0.69
1:BN:62:ARG:NH1	1:BN:127:CYS:SG	2.66	0.69
1:DC:103:LYS:HB3	1:DC:401:GLU:HG2	1.74	0.69
1:EB:63:ALA:O	1:EB:89:ASN:ND2	2.24	0.69
1:FB:31:ASP:OD2	1:FB:37:GLN:NE2	2.25	0.69
1:FD:74:ASP:OD1	1:FD:77:ARG:NH2	2.24	0.69
2:GC:337:THR:OG1	59:4O:175:ARG:NH2	2.25	0.69
2:GC:435:VAL:HA	1:GD:391:ARG:NH2	2.06	0.69
1:GL:73:MET:HA	1:GL:76:VAL:HG12	1.74	0.69
1:ID:227:HIS:HD2	7:0D:36:LEU:HD21	1.57	0.69
2:JD:174:SER:OG	2:JD:177:VAL:O	2.11	0.69
2:JF:174:SER:OG	2:JF:177:VAL:O	2.11	0.69
1:KA:347:ASN:ND2	2:KB:178:SER:OG	2.25	0.69
1:LA:267:MET:N	1:LA:369:GLY:O	2.21	0.69
1:LK:207:LEU:HB3	1:LK:225:LEU:HD12	1.73	0.69
1:MN:5:VAL:HG23	1:MN:62:ARG:HG2	1.73	0.69
1:NL:374:ILE:HA	1:NL:377:MET:HE3	1.73	0.69
1:OB:226:ASN:OD1	69:OB:500:GDP:N1	2.23	0.69
2:PC:402:ARG:NH1	2:PC:415:GLU:OE2	2.25	0.69
2:PE:56:THR:HA	2:QD:285:GLN:HE22	1.56	0.69
2:QB:244:PHE:HB2	2:QB:356:ASN:HD21	1.57	0.69
2:RB:3:GLU:HA	2:RB:51:THR:HA	1.73	0.69
2:RJ:301:MET:HE1	2:RJ:307:PRO:HG3	1.74	0.69
1:RK:164:MET:HB3	1:RK:197:ASP:H	1.57	0.69
1:TB:274:THR:HG22	1:TB:282:ARG:HD3	1.74	0.69
1:U:257:LEU:HD11	1:U:314:SER:HB2	1.74	0.69
2:WE:195:LEU:HD21	2:WE:264:ARG:HE	1.55	0.69
9:0L:218:THR:OG1	9:0L:222:ASP:OD1	2.11	0.69
9:0M:608:VAL:HG22	9:0M:618:ILE:HG12	1.74	0.69
24:1K:273:PHE:HB3	24:1K:290:LYS:HE2	1.73	0.69
41:2e:265:THR:HG22	41:2e:269:MET:HE2	1.73	0.69
65:5H:86:GLU:OE2	65:5H:89:ARG:NH2	2.25	0.69
1:AH:347:ASN:ND2	2:AI:178:SER:O	2.25	0.69
2:BA:326:LYS:HZ2	1:BB:212:PHE:HB2	1.58	0.69
2:BG:116:ASP:OD1	2:BG:117:LEU:N	2.26	0.69
1:FJ:267:MET:HE1	1:FJ:305:PRO:HG3	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GA:207:GLU:HB3	2:GA:304:LYS:NZ	2.06	0.69
1:H:87:PRO:HD3	1:I:281:TYR:HD2	1.58	0.69
2:HC:270:THR:HG22	2:HC:378:ILE:HG22	1.75	0.69
1:HD:345:ILE:O	1:HD:348:ASN:ND2	2.24	0.69
2:IA:174:SER:OG	2:IA:177:VAL:O	2.11	0.69
1:IJ:2:ARG:HH21	2:IK:72:PRO:HD2	1.56	0.69
1:IL:173:PRO:HD2	1:IL:380:ARG:HH12	1.55	0.69
1:JC:213:ARG:HH12	1:JC:297:LYS:HB2	1.56	0.69
1:JK:27:GLU:OE1	1:JK:241:ARG:NH2	2.25	0.69
1:KM:35:THR:OG1	1:KM:37:GLN:NE2	2.25	0.69
2:LJ:1:MET:N	24:1J:36:GLN:OE1	2.25	0.69
1:ND:346:PRO:O	2:NE:394:LYS:NZ	2.25	0.69
2:NK:78:VAL:O	2:NK:84:ARG:NH2	2.23	0.69
2:OG:239:THR:HG23	2:OG:243:ARG:HE	1.56	0.69
2:PA:213:THR:HA	2:PA:217:LEU:HD23	1.73	0.69
1:PB:324:LYS:HD2	2:PC:214:ARG:HH21	1.57	0.69
2:PE:11:GLN:HG3	2:PE:74:VAL:HG11	1.73	0.69
2:PE:255:PHE:HE1	2:PE:378:ILE:HG21	1.56	0.69
1:PH:132:GLY:HA3	1:PH:163:ILE:O	1.92	0.69
1:QA:257:LEU:HD11	1:QA:314:SER:HB2	1.73	0.69
1:QI:355:ASP:OD1	28:1b:186:ASN:ND2	2.26	0.69
1:S:178:THR:HG22	1:S:180:VAL:H	1.56	0.69
2:SG:115:VAL:HG21	2:SG:152:LEU:HD22	1.74	0.69
1:T:333:VAL:HG22	61:3w:130:THR:HG23	1.71	0.69
1:UH:237:THR:HG22	1:UH:250:LEU:HD21	1.75	0.69
2:VM:142:GLY:HA2	2:VM:183:GLU:HG3	1.74	0.69
1:WB:99:ASN:HD21	1:WB:178:THR:HG23	1.57	0.69
1:WB:267:MET:HB2	1:WB:299:MET:CE	2.23	0.69
2:WK:260:VAL:HG13	1:WL:397:TRP:HE1	1.57	0.69
3:XE:26:ASP:OD2	3:XE:28:GLN:NE2	2.25	0.69
8:0G:133:ARG:HA	8:0G:136:MET:HE2	1.72	0.69
9:0L:470:ASN:ND2	9:0L:486:ASP:OD1	2.25	0.69
16:0l:727:GLY:HA3	16:0l:731:GLU:HG3	1.73	0.69
1:CI:207:LEU:HD22	1:CI:300:MET:HB2	1.75	0.69
1:CM:3:GLU:O	1:CM:131:GLN:N	2.24	0.69
2:D:237:SER:HA	2:D:320:ARG:HD2	1.73	0.69
2:DB:244:PHE:HB2	2:DB:356:ASN:HD21	1.54	0.69
1:DG:323:THR:HA	1:DG:326:VAL:HG22	1.74	0.69
1:DK:328:GLU:OE2	1:DK:332:ASN:ND2	2.25	0.69
1:EB:272:PRO:HD3	1:EB:364:SER:HA	1.74	0.69
1:ED:73:MET:HG3	1:ED:92:PHE:HB3	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FD:156:ARG:NH1	1:FD:160:PRO:O	2.26	0.69
2:FI:174:SER:OG	2:FI:177:VAL:O	2.10	0.69
2:GI:68:LEU:HD11	2:GI:153:LEU:HD11	1.74	0.69
1:HJ:16:ILE:HD11	1:HJ:229:VAL:HB	1.72	0.69
1:IB:252:LYS:NZ	71:IC:501:GTP:O3G	2.25	0.69
1:JI:232:VAL:HG23	1:JI:366:THR:HB	1.74	0.69
1:KG:211:CYS:HA	1:KG:215:LEU:HB3	1.74	0.69
1:LM:213:ARG:HH12	1:LM:297:LYS:HD2	1.58	0.69
2:MG:174:SER:HB2	2:MG:207:GLU:HB2	1.73	0.69
2:MG:319:TYR:HB3	2:MG:323:VAL:HG21	1.74	0.69
1:ML:314:SER:HB3	1:ML:368:ILE:HB	1.73	0.69
1:NB:164:MET:HB2	1:NB:197:ASP:H	1.58	0.69
2:NG:292:THR:OG1	2:NG:319:TYR:OH	2.09	0.69
1:PJ:232:VAL:HG21	1:PJ:300:MET:HE1	1.74	0.69
2:QL:84:ARG:NH1	41:2e:143:ALA:O	2.25	0.69
1:RC:378:PHE:HB3	1:RC:415:MET:HE1	1.75	0.69
2:RJ:155:GLU:HA	2:RJ:197:HIS:CD2	2.28	0.69
2:TA:8:HIS:CD2	2:TA:17:GLY:HA3	2.28	0.69
1:TH:237:THR:HG22	1:TH:250:LEU:HD21	1.75	0.69
1:TH:303:ALA:HB2	1:TH:377:MET:HE3	1.73	0.69
2:VG:180:ALA:HB3	2:VG:183:GLU:HB2	1.74	0.69
1:VL:311:LEU:HA	1:VL:342:ILE:HD12	1.73	0.69
20:0t:121:GLN:HG3	20:0t:203:ARG:HH21	1.58	0.69
24:1J:567:LEU:HD21	24:1J:579:GLU:HG2	1.75	0.69
29:1l:9:TYR:HA	44:2w:195:ASP:OD2	1.93	0.69
41:2h:278:GLU:OE1	41:2h:281:ARG:NH2	2.25	0.69
43:2t:168:TRP:HB2	43:2t:310:GLU:HB2	1.73	0.69
60:3s:128:ALA:H	60:3s:131:PHE:HD2	1.40	0.69
1:A:385:PHE:HE2	1:A:412:GLU:HB3	1.56	0.69
2:AI:40:LYS:NZ	24:1I:96:ARG:HE	1.90	0.69
2:AM:264:ARG:HH11	3:XF:117:PHE:HB2	1.57	0.69
2:D:295:VAL:HG21	2:D:375:VAL:HG13	1.75	0.69
1:DG:311:LEU:HA	1:DG:342:ILE:HD12	1.75	0.69
1:GJ:207:LEU:HB3	1:GJ:225:LEU:HD22	1.74	0.69
1:HL:292:GLN:HB2	1:HL:298:ASN:HD22	1.58	0.69
2:HM:104:ALA:HB2	2:HM:413:MET:HG2	1.74	0.69
1:IF:224:ASP:HA	1:IF:227:HIS:HD2	1.57	0.69
1:KM:213:ARG:HG3	1:KM:297:LYS:HD3	1.75	0.69
1:LA:35:THR:OG1	1:LA:37:GLN:NE2	2.24	0.69
2:LL:67:PHE:HB2	2:LL:92:LEU:HD12	1.75	0.69
1:N:345:ILE:HG23	1:N:348:ASN:ND2	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OK:75:VAL:HG21	2:OK:94:SER:HB2	1.72	0.69
2:OK:317:LEU:HD23	2:OK:377:MET:HB2	1.74	0.69
1:P:260:PHE:HB2	1:P:263:LEU:HD13	1.74	0.69
2:PA:177:VAL:N	2:PA:207:GLU:OE2	2.24	0.69
1:PD:347:ASN:ND2	2:PE:180:ALA:O	2.24	0.69
2:QB:90:GLU:OE1	2:RB:280:LYS:NZ	2.25	0.69
1:RA:207:LEU:HB3	1:RA:225:LEU:HD22	1.74	0.69
1:SH:207:LEU:HB3	1:SH:225:LEU:HD22	1.73	0.69
1:UH:19:LYS:NZ	1:UH:223:GLY:O	2.24	0.69
1:VJ:311:LEU:HD23	1:VJ:342:ILE:HD11	1.74	0.69
2:WI:71:GLU:HB3	2:WI:98:ASP:HB3	1.74	0.69
16:0k:320:ASP:HB3	16:0k:324:ARG:NH1	2.07	0.69
16:0k:418:LEU:HD13	16:0k:477:TYR:HB2	1.74	0.69
28:1g:241:VAL:HG13	28:1g:254:LEU:CD1	2.22	0.69
64:5C:157:LEU:O	64:5C:161:GLN:NE2	2.24	0.69
66:5L:158:VAL:HG22	66:5L:235:VAL:HG22	1.75	0.69
67:5O:28:LEU:N	67:5O:50:PHE:O	2.25	0.69
67:5P:32:GLY:HA2	67:5P:103:PHE:HD1	1.57	0.69
1:AH:89:ASN:ND2	1:AH:123:GLU:OE2	2.25	0.69
2:AI:264:ARG:HH12	3:XD:118:ILE:HD12	1.55	0.69
2:EC:174:SER:OG	2:EC:177:VAL:O	2.10	0.69
1:ED:134:GLN:HG3	1:ED:167:PHE:HE2	1.57	0.69
1:G:258:VAL:HG23	2:GA:407:TRP:HE1	1.58	0.69
1:GD:258:VAL:HG23	2:GE:407:TRP:HE1	1.58	0.69
1:GH:103:LYS:HA	1:GH:107:THR:HG22	1.73	0.69
1:HJ:252:LYS:HD3	2:HK:100:ALA:HA	1.73	0.69
2:JJ:426:ALA:O	2:JJ:430:LYS:HG2	1.91	0.69
1:KC:16:ILE:HD11	1:KC:229:VAL:HB	1.75	0.69
1:KE:198:GLU:HA	1:KE:264:HIS:HB2	1.74	0.69
1:LI:306:ARG:O	22:0z:89:ARG:NH2	2.26	0.69
1:LO:245:GLN:NE2	1:LO:321:MET:O	2.24	0.69
1:MH:139:LEU:HD12	1:MH:170:ILE:HG13	1.75	0.69
2:NA:254:GLU:OE2	1:NB:99:ASN:ND2	2.25	0.69
2:NG:225:THR:HG22	2:NG:229:ARG:HH21	1.58	0.69
2:NG:259:LEU:HD21	2:NG:268:VAL:HG11	1.72	0.69
2:SC:71:GLU:HB3	2:SC:98:ASP:HB3	1.75	0.69
2:SE:76:ASP:HA	2:SE:79:ARG:HD2	1.73	0.69
1:TB:235:GLY:HA3	1:TB:366:THR:HG21	1.75	0.69
2:UA:319:TYR:HD2	2:UA:323:VAL:HG11	1.57	0.69
1:VB:192:LEU:O	1:VB:196:SER:HB3	1.92	0.69
2:VK:326:LYS:NZ	1:VL:208:TYR:O	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:WK:254:GLU:O	2:WK:258:ASN:ND2	2.25	0.69
3:XE:57:CYS:HB3	3:XE:158:ALA:HB2	1.75	0.69
9:0N:323:HIS:ND1	9:0N:344:CYS:SG	2.65	0.69
37:2S:170:ASN:ND2	37:2S:198:GLU:OE1	2.26	0.69
2:AA:258:ASN:HD21	1:AB:178:THR:HG23	1.58	0.69
2:AE:188:VAL:HG12	2:AE:421:ALA:HB1	1.75	0.69
2:AG:402:ARG:HG3	4:XO:302:SER:HA	1.75	0.69
1:AJ:175:VAL:HG23	1:AJ:205:GLU:HG3	1.75	0.69
1:AN:18:SER:HB2	1:AN:76:VAL:HG23	1.75	0.69
1:B:345:ILE:O	1:B:348:ASN:ND2	2.25	0.69
2:CJ:296:PHE:HE2	2:CJ:317:LEU:HD21	1.56	0.69
1:DA:359:LYS:NZ	27:1S:851:PRO:O	2.24	0.69
1:DC:345:ILE:O	1:DC:348:ASN:ND2	2.25	0.69
1:DG:279:GLN:HE22	42:2r:407:TYR:HB3	1.58	0.69
2:DL:50:ASN:O	2:DL:64:ARG:NH2	2.26	0.69
2:FA:51:THR:HG21	2:FA:243:ARG:HG2	1.75	0.69
1:FJ:268:MET:HE1	1:FJ:368:ILE:HG12	1.75	0.69
1:GD:207:LEU:HB3	1:GD:225:LEU:HD22	1.74	0.69
1:GD:291:GLN:HE22	59:4O:195:ALA:HA	1.58	0.69
2:HC:191:THR:HG21	2:HC:425:LEU:HD13	1.74	0.69
2:IA:212:LEU:HD21	2:IA:275:VAL:HG11	1.73	0.69
1:IF:37:GLN:HG2	11:0U:256:LYS:HZ2	1.58	0.69
1:IJ:326:VAL:HG21	1:IJ:353:ILE:HD11	1.75	0.69
1:IL:128:ASP:OD2	1:IL:129:CYS:N	2.26	0.69
1:IL:215:LEU:HD12	7:0D:273:LEU:HD21	1.73	0.69
1:JC:286:VAL:HG11	1:JC:326:VAL:HA	1.73	0.69
1:KI:217:LEU:HB2	1:KI:220:PRO:HG3	1.73	0.69
1:LC:74:ASP:OD1	27:1S:52:GLN:N	2.25	0.69
1:LK:253:LEU:HD21	1:LK:316:LEU:HD21	1.72	0.69
2:LN:221:ARG:HH12	23:1F:378:ASP:HA	1.57	0.69
1:MB:156:ARG:HH21	1:MB:160:PRO:HA	1.58	0.69
1:N:74:ASP:OD1	1:N:75:SER:N	2.26	0.69
2:NC:1:MET:HE2	1:ND:70:PRO:HG3	1.74	0.69
1:NJ:8:GLN:HG2	1:NJ:17:GLY:HA3	1.75	0.69
2:OG:278:ALA:HB3	41:2o:317:LEU:HD21	1.73	0.69
2:OM:50:ASN:O	2:OM:64:ARG:NH1	2.26	0.69
1:PH:347:ASN:ND2	2:PI:180:ALA:O	2.25	0.69
1:SJ:31:ASP:OD2	1:SJ:37:GLN:NE2	2.24	0.69
1:TB:292:GLN:HG2	1:TB:298:ASN:ND2	2.06	0.69
1:TL:236:VAL:HG13	1:TL:237:THR:HG23	1.74	0.69
1:U:268:MET:HE1	1:U:368:ILE:HG23	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:UA:244:PHE:HB2	2:UA:356:ASN:HD21	1.58	0.69
1:V:62:ARG:NH1	1:V:127:CYS:SG	2.66	0.69
1:WF:282:ARG:HH21	1:WF:288:GLU:HB3	1.58	0.69
10:0S:305:GLU:HG2	10:0S:309:ARG:NH1	2.08	0.69
16:0k:430:GLU:OE2	16:0k:477:TYR:OH	2.11	0.69
25:1O:299:TYR:OH	25:1O:410:GLU:OE2	2.11	0.69
22:1x:204:ALA:O	22:1x:208:ARG:NH1	2.26	0.69
41:2h:282:LYS:NZ	41:2h:286:GLU:OE2	2.19	0.69
42:2r:210:THR:O	42:2r:214:GLN:NE2	2.26	0.69
45:2y:238:VAL:HG13	45:2y:239:GLU:HG2	1.75	0.69
49:3Q:334:LEU:O	49:3Q:345:ARG:NH1	2.26	0.69
64:5B:100:GLU:OE1	65:5G:90:LYS:NZ	2.25	0.69
66:5K:152:ASN:OD1	66:5K:239:LYS:NZ	2.25	0.69
2:AM:6:CYS:O	2:AM:65:CYS:HA	1.93	0.69
1:BH:324:LYS:HD3	2:BI:222:PRO:HD2	1.75	0.69
2:BK:31:GLN:NE2	2:BK:35:SER:O	2.26	0.69
2:CF:204:LEU:HD22	2:CF:231:ILE:HD12	1.74	0.69
1:DM:330:MET:HB3	1:DM:349:ILE:HG21	1.75	0.69
2:EE:319:TYR:HB3	2:EE:323:VAL:HG11	1.74	0.69
2:EG:332:ILE:HG23	2:EG:351:PHE:CD2	2.27	0.69
1:FL:257:LEU:HD21	1:FL:314:SER:HB3	1.72	0.69
1:FL:412:GLU:OE2	1:FL:416:ASN:ND2	2.26	0.69
1:HJ:323:THR:HA	1:HJ:326:VAL:HG12	1.73	0.69
1:I:66:MET:HE1	1:I:151:LEU:HD22	1.75	0.69
1:IL:178:THR:OG1	1:IL:181:GLU:OE2	2.10	0.69
2:JB:204:LEU:HD22	2:JB:231:ILE:HD12	1.75	0.69
1:KE:78:ALA:HB1	15:0f:250:GLN:HE21	1.56	0.69
1:KK:272:PRO:HD3	1:KK:364:SER:HA	1.74	0.69
2:LH:325:PRO:HA	2:LH:328:VAL:HG22	1.75	0.69
2:MC:56:THR:HG23	2:MC:58:ALA:H	1.58	0.69
1:MN:330:MET:HE3	1:MN:351:SER:HB2	1.74	0.69
1:OB:200:MET:HB2	1:OB:268:MET:HE3	1.75	0.69
2:OK:347:CYS:HB3	1:OL:388:MET:HE3	1.75	0.69
2:QB:174:SER:OG	2:QB:177:VAL:O	2.10	0.69
1:SH:189:VAL:HG11	1:SH:415:MET:HE1	1.75	0.69
2:TA:50:ASN:O	2:TA:64:ARG:NH1	2.26	0.69
8:0I:41:THR:HG22	13:0Z:275:PHE:HB3	1.75	0.69
27:1S:673:ALA:O	27:1S:677:HIS:ND1	2.26	0.69
22:1y:189:GLU:O	22:1y:193:ARG:HG2	1.92	0.69
37:2S:228:ILE:HG13	54:3Z:319:PHE:HD2	1.57	0.69
44:2w:210:ILE:HG22	44:2w:213:MET:HE3	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:5K:13:ASN:OD1	66:5K:14:HIS:N	2.25	0.69
1:AD:185:THR:O	1:AD:189:VAL:HG23	1.93	0.69
1:AD:207:LEU:HB3	1:AD:225:LEU:HD22	1.75	0.69
1:CC:311:LEU:HD23	1:CC:342:ILE:HG13	1.75	0.69
1:H:169:VAL:HA	1:H:202:ILE:HB	1.75	0.69
2:HA:271:SER:HA	2:HA:302:LEU:HG	1.73	0.69
2:HE:67:PHE:HB2	2:HE:92:LEU:HD12	1.74	0.69
1:KE:207:LEU:HB3	1:KE:225:LEU:HD22	1.73	0.69
1:KE:284:LEU:HG	1:KE:363:MET:HE2	1.75	0.69
2:LH:420:GLU:OE2	39:2X:170:ARG:NH1	2.21	0.69
1:MF:248:SER:HB2	1:MF:252:LYS:HG2	1.75	0.69
2:OA:364:PRO:HB2	28:1g:152:PRO:HB2	1.75	0.69
2:OC:324:VAL:HG21	2:OC:326:LYS:HE2	1.75	0.69
1:OJ:74:ASP:OD1	1:OJ:77:ARG:NH2	2.26	0.69
2:PM:265:ILE:HG22	2:PM:380:ASN:HD21	1.58	0.69
2:QF:33:ASP:O	2:QF:60:LYS:NZ	2.26	0.69
1:RA:378:PHE:HD1	1:RA:415:MET:HE1	1.58	0.69
1:RE:321:MET:HE2	1:RE:363:MET:HE3	1.75	0.69
2:RJ:132:LEU:HD22	2:RJ:164:LYS:HD3	1.74	0.69
2:SC:270:THR:HG23	2:SC:302:LEU:HB3	1.75	0.69
1:TD:321:MET:HE2	1:TD:326:VAL:HG22	1.74	0.69
1:W:167:PHE:CE1	1:W:233:MET:HG2	2.27	0.69
5:XN:253:LEU:HB3	5:XN:306:MET:HG2	1.75	0.69
6:0A:181:ARG:HD3	6:0A:207:PRO:HB2	1.75	0.69
9:0L:344:CYS:SG	9:0L:345:ASP:N	2.64	0.69
44:2v:328:THR:HG23	44:2v:331:ASP:H	1.57	0.69
2:AG:180:ALA:HB3	2:AG:183:GLU:HB2	1.74	0.68
1:BF:267:MET:HG2	1:BF:301:GLN:NE2	2.08	0.68
2:BG:26:LEU:HD22	2:BG:364:PRO:HD2	1.75	0.68
2:BI:325:PRO:HA	2:BI:328:VAL:HG22	1.74	0.68
1:BN:289:LEU:HD12	1:BN:363:MET:HE2	1.74	0.68
2:CJ:133:GLN:O	2:CJ:165:SER:HB3	1.93	0.68
2:CL:11:GLN:HG3	2:CL:74:VAL:HG11	1.73	0.68
1:GD:19:LYS:HD3	1:GD:226:ASN:HB2	1.74	0.68
1:GH:268:MET:HE1	1:GH:368:ILE:HG22	1.74	0.68
1:HH:236:VAL:HG13	1:HH:237:THR:HG23	1.75	0.68
1:HL:139:LEU:HG	1:HL:168:SER:HB2	1.75	0.68
1:IJ:287:ALA:HA	1:IJ:329:GLN:HE22	1.58	0.68
1:IL:48:ASN:O	1:IL:62:ARG:NH2	2.26	0.68
2:KD:311:LYS:HG2	2:KD:342:GLN:HG3	1.74	0.68
2:KF:180:ALA:HB3	2:KF:183:GLU:HB2	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LA:415:MET:HE2	1:LA:415:MET:HA	1.74	0.68
2:OA:282:TYR:CE1	41:2o:472:MET:HE3	2.29	0.68
1:OF:324:LYS:NZ	2:OG:222:PRO:HG2	2.07	0.68
2:Q:67:PHE:HB2	2:Q:92:LEU:HD13	1.74	0.68
2:QF:195:LEU:HD21	2:QF:428:LEU:HD22	1.73	0.68
2:RL:69:ASP:OD2	2:RL:70:LEU:N	2.25	0.68
2:TC:186:ASN:OD1	2:TC:408:TYR:OH	2.11	0.68
2:UA:132:LEU:O	2:UA:164:LYS:NZ	2.25	0.68
2:VE:3:GLU:OE2	2:VE:64:ARG:NH1	2.25	0.68
1:W:31:ASP:OD2	1:W:37:GLN:NE2	2.18	0.68
1:WD:362:LYS:HD3	1:WD:363:MET:HG3	1.74	0.68
22:0z:250:PRO:HB3	31:1s:242:ILE:HG12	1.75	0.68
1:AF:347:ASN:ND2	2:AG:178:SER:OG	2.27	0.68
2:AI:239:THR:OG1	2:AI:243:ARG:NH1	2.25	0.68
1:AJ:413:SER:HA	4:XQ:204:LYS:HZ1	1.58	0.68
1:AL:324:LYS:NZ	2:AM:222:PRO:O	2.26	0.68
2:BM:69:ASP:OD2	2:BM:70:LEU:N	2.27	0.68
2:CB:174:SER:OG	2:CB:177:VAL:O	2.10	0.68
2:CF:173:PRO:HG3	2:CF:183:GLU:HG2	1.76	0.68
1:EF:247:ASN:ND2	2:EG:73:THR:OG1	2.26	0.68
2:FI:71:GLU:HB3	2:FI:98:ASP:HB3	1.75	0.68
2:GC:75:VAL:HG21	2:GC:94:SER:HB2	1.75	0.68
2:IK:75:VAL:HG21	2:IK:94:SER:HB3	1.76	0.68
2:KH:264:ARG:HG2	39:2X:121:ARG:HH12	1.57	0.68
2:LF:225:THR:HG21	45:2y:295:GLU:HG3	1.74	0.68
1:LK:282:ARG:NH2	1:LK:288:GLU:OE1	2.21	0.68
2:ME:265:ILE:HG22	2:ME:380:ASN:HD21	1.58	0.68
2:MI:175:PRO:HG3	2:MI:390:ARG:HH21	1.57	0.68
2:NA:406:HIS:HA	2:NA:409:VAL:HG12	1.75	0.68
1:NH:34:GLY:HA3	1:NH:58:ARG:HG3	1.73	0.68
1:NH:251:ARG:NH1	2:NI:97:GLU:OE2	2.26	0.68
2:NK:56:THR:O	41:2o:186:ARG:NH2	2.26	0.68
1:OB:66:MET:HE3	1:OB:116:VAL:HG11	1.74	0.68
1:OH:245:GLN:NE2	28:1h:77:THR:OG1	2.26	0.68
1:PH:67:ASP:O	1:PH:92:PHE:HA	1.93	0.68
2:PI:298:PRO:HA	2:PI:301:MET:HE3	1.76	0.68
2:PI:326:LYS:HE3	1:PJ:212:PHE:HE2	1.58	0.68
2:QD:322:ASP:OD2	2:QD:372:GLN:NE2	2.26	0.68
1:QG:202:ILE:HD12	1:QG:300:MET:HE3	1.75	0.68
2:TA:209:ILE:HG12	2:TA:302:LEU:HD22	1.74	0.68
1:TB:227:HIS:NE2	21:0w:367:PHE:HB2	2.08	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:TC:335:ILE:HD11	2:TC:341:ILE:HD12	1.76	0.68
1:UB:320:ARG:NH1	53:3W:215:ALA:O	2.26	0.68
2:WA:326:LYS:NZ	1:WB:220:PRO:O	2.22	0.68
59:4O:180:LYS:O	59:4O:181:LYS:C	2.35	0.68
1:BJ:253:LEU:HD21	1:BJ:316:LEU:HD21	1.76	0.68
1:CA:332:ASN:HD22	1:CA:336:LYS:HZ1	1.39	0.68
2:CB:69:ASP:OD2	2:CB:70:LEU:N	2.25	0.68
2:CJ:44:VAL:HG12	2:CJ:46:ASP:H	1.59	0.68
1:CM:381:VAL:HA	1:CM:384:GLN:HG2	1.75	0.68
1:EL:27:GLU:OE2	1:EL:318:ARG:NH2	2.26	0.68
1:F:257:LEU:O	1:F:370:ASN:ND2	2.25	0.68
2:FK:71:GLU:HB3	2:FK:98:ASP:HB3	1.75	0.68
2:GE:365:GLY:H	10:0R:164:ARG:HH21	1.39	0.68
1:HD:324:LYS:NZ	2:HE:222:PRO:HG2	2.08	0.68
2:J:98:ASP:OD1	2:J:99:ALA:N	2.27	0.68
1:JK:87:PRO:HD3	1:KK:281:TYR:HD2	1.56	0.68
2:JL:97:GLU:OE2	2:JL:105:ARG:NH2	2.26	0.68
2:KB:431:ASP:OD1	22:1w:42:TYR:OH	2.10	0.68
2:KJ:108:TYR:O	2:KJ:112:LYS:NZ	2.25	0.68
1:KK:346:PRO:HD2	2:KL:398:MET:HE3	1.75	0.68
2:LF:326:LYS:NZ	1:LG:217:LEU:O	2.27	0.68
1:MB:347:ASN:ND2	2:MC:178:SER:OG	2.25	0.68
1:ML:322:SER:OG	2:MM:222:PRO:O	2.09	0.68
2:NM:406:HIS:HA	2:NM:409:VAL:HG12	1.75	0.68
2:OG:332:ILE:O	2:OG:336:LYS:HG2	1.92	0.68
2:PM:138:PHE:HE2	2:PM:235:VAL:HG11	1.58	0.68
2:QF:276:VAL:HG13	2:QF:280:LYS:HB3	1.75	0.68
2:SA:199:ASP:HB3	2:SA:256:GLN:HE21	1.58	0.68
1:WH:330:MET:HA	1:WH:333:VAL:HG12	1.76	0.68
3:XD:4:ASN:HD21	4:XQ:32:GLY:CA	1.98	0.68
4:XO:164:ASP:OD1	4:XO:167:ARG:NH1	2.25	0.68
16:0k:813:LEU:HD22	16:0k:816:MET:HE3	1.75	0.68
27:1S:140:ARG:NH2	27:1S:157:GLU:OE1	2.25	0.68
37:2S:40:LEU:HB2	37:2S:78:LEU:HB3	1.75	0.68
1:AB:252:LYS:NZ	71:AC:501:GTP:O3G	2.25	0.68
1:AD:332:ASN:OD1	1:AD:336:LYS:NZ	2.19	0.68
1:BB:62:ARG:NH1	1:BB:127:CYS:SG	2.66	0.68
1:BH:139:LEU:HG	1:BH:168:SER:HB2	1.75	0.68
1:DA:311:LEU:HD23	1:DA:342:ILE:HD12	1.74	0.68
2:DB:174:SER:OG	2:DB:177:VAL:O	2.12	0.68
1:ED:178:THR:HB	1:ED:181:GLU:HG3	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ED:289:LEU:HD11	1:ED:363:MET:HG3	1.74	0.68
2:FA:27:GLU:OE1	2:FA:243:ARG:NH2	2.26	0.68
2:FA:174:SER:OG	2:FA:177:VAL:O	2.10	0.68
2:FG:174:SER:OG	2:FG:177:VAL:O	2.11	0.68
1:GD:16:ILE:HD12	1:GD:229:VAL:HG11	1.75	0.68
1:GL:87:PRO:HD3	1:HL:281:TYR:HD1	1.59	0.68
2:HA:1:MET:HG3	2:HA:2:ARG:HG3	1.74	0.68
1:JG:61:PRO:HD3	1:JG:84:LEU:HG	1.74	0.68
2:JN:229:ARG:HD2	2:JN:363:VAL:HG11	1.76	0.68
1:LE:46:ARG:NH2	2:LF:76:ASP:OD2	2.27	0.68
1:MF:235:GLY:HA3	1:MF:366:THR:HG21	1.74	0.68
1:NJ:163:ILE:HG21	1:NJ:250:LEU:HB3	1.74	0.68
1:OD:189:VAL:HG23	1:OD:415:MET:HE1	1.76	0.68
2:PC:109:THR:OG1	2:PC:411:GLU:OE2	2.08	0.68
2:PI:259:LEU:O	2:PI:380:ASN:ND2	2.27	0.68
1:QE:152:ILE:HD12	1:QE:164:MET:HE2	1.74	0.68
9:0N:117:SER:OG	9:0N:119:ASP:OD1	2.09	0.68
18:0p:234:GLU:HG2	18:0p:238:LYS:HE3	1.76	0.68
22:0z:237:GLN:HA	22:0z:240:LEU:HD12	1.75	0.68
23:1A:306:ARG:NH2	44:2v:406:PRO:O	2.26	0.68
25:1O:599:LEU:HD22	25:1O:635:ILE:HB	1.75	0.68
29:1l:9:TYR:N	44:2w:199:ASP:OD2	2.25	0.68
33:2H:218:ARG:HD2	33:2H:226:SER:HB2	1.76	0.68
57:3f:86:ARG:HH12	57:3f:87:LYS:HG2	1.57	0.68
1:AH:19:LYS:CD	1:AH:226:ASN:HB3	2.24	0.68
1:BJ:326:VAL:HG11	1:BJ:353:ILE:HD11	1.75	0.68
1:CG:345:ILE:HG23	2:CH:398:MET:HE2	1.76	0.68
1:E:19:LYS:HG3	1:E:226:ASN:HB2	1.75	0.68
1:FH:249:ASP:H	1:FH:252:LYS:HB2	1.58	0.68
2:HG:288:VAL:HG11	2:HG:327:ASP:HB3	1.73	0.68
2:HM:11:GLN:HG2	2:HM:74:VAL:HG11	1.76	0.68
1:JM:311:LEU:HA	1:JM:342:ILE:HD12	1.76	0.68
1:KG:326:VAL:HG11	1:KG:353:ILE:HD11	1.76	0.68
2:KN:239:THR:HG23	2:KN:243:ARG:HH11	1.58	0.68
2:LF:319:TYR:HB3	2:LF:323:VAL:HG21	1.76	0.68
1:LK:43:GLN:HG2	45:2z:79:LEU:CD2	2.23	0.68
1:OB:375:GLN:HE22	1:OB:419:VAL:HA	1.58	0.68
2:OK:101:ASN:HD22	2:OK:143:GLY:HA2	1.56	0.68
2:PE:18:ASN:O	2:PE:22:GLU:HG2	1.93	0.68
2:PG:209:ILE:HG12	2:PG:302:LEU:HD22	1.76	0.68
2:RB:392:ASP:HB2	2:RB:422:ARG:HH12	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RG:178:THR:HB	1:RG:181:GLU:HB2	1.74	0.68
1:T:345:ILE:O	1:T:348:ASN:ND2	2.27	0.68
1:TH:311:LEU:HD23	1:TH:342:ILE:HD13	1.74	0.68
1:V:311:LEU:HA	1:V:342:ILE:HD12	1.76	0.68
2:VE:339:ARG:HH11	62:4B:218:GLY:C	2.01	0.68
2:WA:335:ILE:HG23	2:WA:341:ILE:HD11	1.76	0.68
2:WE:102:ASN:HB3	2:WE:105:ARG:HB2	1.75	0.68
2:WG:3:GLU:HA	2:WG:51:THR:HA	1.76	0.68
1:WJ:301:GLN:NE2	1:WJ:377:MET:SD	2.67	0.68
3:XA:101:ARG:NH1	3:XA:116:PRO:O	2.27	0.68
6:0A:243:SER:HB3	6:0A:261:ARG:HB3	1.76	0.68
9:0O:158:VAL:HG22	9:0O:170:THR:HG22	1.76	0.68
16:0k:140:ARG:HA	16:0k:208:MET:HE1	1.75	0.68
32:2B:211:TYR:HB3	32:2B:236:PRO:HG3	1.74	0.68
57:3i:99:MET:HE1	57:3i:107:GLN:NE2	2.09	0.68
1:AL:2:ARG:N	1:AL:129:CYS:O	2.26	0.68
2:C:207:GLU:HA	2:C:210:TYR:HB2	1.76	0.68
2:CB:274:PRO:HB2	2:CB:276:VAL:HG13	1.74	0.68
1:CI:20:PHE:HB2	1:CI:233:MET:HE3	1.75	0.68
1:DK:272:PRO:HD2	1:DK:361:LEU:HD21	1.75	0.68
1:EB:3:GLU:O	1:EB:131:GLN:N	2.27	0.68
2:EG:147:SER:HB2	2:EG:190:SER:HB3	1.76	0.68
1:EL:140:GLY:O	1:EL:184:ASN:ND2	2.21	0.68
2:FE:51:THR:HG23	2:FE:52:PHE:HD1	1.57	0.68
2:FE:174:SER:OG	2:FE:177:VAL:O	2.10	0.68
1:GH:375:GLN:NE2	1:GH:426:GLN:OE1	2.26	0.68
1:H:285:SER:N	1:H:288:GLU:OE2	2.26	0.68
1:HH:80:PRO:HD2	1:HH:81:TYR:N	2.07	0.68
2:HM:151:ALA:O	2:HM:155:GLU:HG3	1.94	0.68
1:IJ:61:PRO:HD3	1:IJ:84:LEU:HG	1.75	0.68
2:J:56:THR:HA	2:K:285:GLN:HE22	1.57	0.68
2:JD:269:LEU:HD22	2:JD:303:THR:HG21	1.76	0.68
2:K:324:VAL:HG12	2:K:326:LYS:H	1.59	0.68
2:KB:27:GLU:OE1	2:KB:243:ARG:NH2	2.26	0.68
1:LG:8:GLN:HG2	1:LG:17:GLY:HA3	1.74	0.68
1:LM:267:MET:N	1:LM:369:GLY:O	2.24	0.68
2:MM:259:LEU:HD23	2:MM:268:VAL:HG11	1.76	0.68
1:MN:178:THR:HB	1:MN:181:GLU:HG3	1.76	0.68
1:ND:131:GLN:HE22	1:ND:250:LEU:HB2	1.58	0.68
1:NH:351:SER:HB3	2:NI:179:THR:HG23	1.76	0.68
2:NI:295:VAL:HG21	2:NI:375:VAL:HG13	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NL:161:ASP:OD1	1:NL:162:ARG:NH1	2.25	0.68
1:OF:202:ILE:HD11	1:OF:268:MET:SD	2.33	0.68
1:PB:286:VAL:HG21	1:PB:325:GLU:HG3	1.76	0.68
1:PB:301:GLN:NE2	1:PB:377:MET:SD	2.66	0.68
1:PJ:320:ARG:NH1	28:1e:45:ASP:OD2	2.26	0.68
2:PK:301:MET:HG3	2:PK:303:THR:H	1.57	0.68
1:QE:4:ILE:HD12	1:QE:250:LEU:HD11	1.74	0.68
1:RG:60:VAL:HG11	1:RG:86:ARG:HG3	1.73	0.68
2:RH:120:ASP:OD1	2:RH:124:LYS:NZ	2.26	0.68
1:SJ:20:PHE:HB2	1:SJ:233:MET:HE3	1.76	0.68
1:TB:27:GLU:OE2	1:TB:241:ARG:NE	2.24	0.68
2:TI:212:LEU:HD21	2:TI:275:VAL:HG21	1.75	0.68
2:TK:326:LYS:NZ	1:TL:220:PRO:HD2	2.09	0.68
1:TL:139:LEU:HD23	1:TL:185:THR:HA	1.76	0.68
1:UL:268:MET:HE1	1:UL:368:ILE:HG23	1.75	0.68
2:VG:89:PRO:HD2	2:WG:283:HIS:HD1	1.58	0.68
1:VL:311:LEU:HB2	1:VL:370:ASN:HB3	1.76	0.68
31:1q:25:PRO:HG3	31:1q:77:PHE:HE2	1.58	0.68
2:BG:265:ILE:HG21	2:BG:313:MET:HE1	1.75	0.68
1:CE:361:LEU:HD21	26:1Q:310:PRO:HG2	1.74	0.68
1:DG:232:VAL:HG11	1:DG:268:MET:HE1	1.75	0.68
1:DM:132:GLY:HA2	1:DM:162:ARG:HB3	1.76	0.68
1:E:207:LEU:HB3	1:E:225:LEU:HD22	1.75	0.68
1:EF:163:ILE:HG21	1:EF:250:LEU:HB3	1.75	0.68
1:EJ:289:LEU:HD11	1:EJ:363:MET:HG2	1.76	0.68
1:GH:16:ILE:HD12	1:GH:229:VAL:HG21	1.74	0.68
1:HJ:236:VAL:HG13	1:HJ:237:THR:HG23	1.75	0.68
1:HL:135:LEU:HD23	1:HL:152:ILE:HD11	1.74	0.68
1:ID:207:LEU:HB3	1:ID:225:LEU:HD12	1.74	0.68
1:IL:252:LYS:NZ	71:IM:501:GTP:O2G	2.26	0.68
1:JM:321:MET:HB3	1:JM:363:MET:HE2	1.76	0.68
2:NK:81:GLY:O	2:NK:84:ARG:NH1	2.26	0.68
2:NK:286:LEU:O	2:NK:373:ARG:NH2	2.27	0.68
1:OL:312:THR:HA	1:OL:348:ASN:HB3	1.75	0.68
2:OM:65:CYS:SG	2:OM:66:LEU:N	2.66	0.68
2:PM:213:THR:HA	2:PM:217:LEU:HD23	1.74	0.68
2:QB:185:TYR:HE1	2:QB:398:MET:HG2	1.58	0.68
1:QI:2:ARG:HH21	2:QJ:72:PRO:HD2	1.59	0.68
1:QI:131:GLN:HE22	1:QI:250:LEU:HB2	1.59	0.68
1:RK:314:SER:HB3	1:RK:368:ILE:HB	1.75	0.68
2:SK:54:SER:HB3	2:SK:64:ARG:HE	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TJ:198:GLU:HG3	1:TJ:266:PHE:HE2	1.58	0.68
2:UC:3:GLU:HG2	2:UC:64:ARG:HH12	1.59	0.68
2:UC:237:SER:HA	2:UC:320:ARG:HD2	1.76	0.68
1:UD:48:ASN:O	1:UD:62:ARG:NH1	2.27	0.68
1:UD:311:LEU:HD23	1:UD:342:ILE:HD11	1.74	0.68
1:V:174:ARG:HH22	1:V:380:ARG:HH12	1.39	0.68
2:WA:123:ARG:NH2	4:XM:134:ILE:O	2.25	0.68
1:WL:247:ASN:H	2:WM:11:GLN:HE22	1.39	0.68
7:0D:332:ASP:O	38:2V:178:ASN:ND2	2.27	0.68
9:0O:151:HIS:CD2	9:0O:153:THR:H	2.12	0.68
31:1q:238:SER:OG	31:1q:241:ASN:OD1	2.11	0.68
32:2B:24:HIS:HD1	32:2B:103:TYR:HH	1.36	0.68
2:AA:67:PHE:HB2	2:AA:92:LEU:HD12	1.76	0.68
2:C:212:LEU:O	2:C:216:SER:HB2	1.94	0.68
1:CM:200:MET:HE3	1:CM:268:MET:HE1	1.75	0.68
1:DE:207:LEU:HB3	1:DE:225:LEU:HD22	1.74	0.68
2:EI:108:TYR:O	2:EI:112:LYS:NZ	2.26	0.68
1:FB:267:MET:SD	1:FB:301:GLN:NE2	2.67	0.68
1:GH:118:ASP:OD2	1:GH:122:LYS:NZ	2.27	0.68
2:II:285:GLN:HG2	7:0D:191:LYS:HE2	1.76	0.68
2:IM:177:VAL:N	2:IM:207:GLU:OE1	2.26	0.68
1:LC:48:ASN:O	1:LC:62:ARG:NH1	2.26	0.68
1:LK:194:GLU:OE2	14:0d:104:ASP:N	2.26	0.68
1:LK:362:LYS:HB2	23:1E:88:TYR:HB3	1.74	0.68
1:MB:156:ARG:NH1	1:MB:197:ASP:OD1	2.27	0.68
1:MD:100:ASN:HB3	1:MD:103:LYS:HG2	1.74	0.68
2:MI:174:SER:OG	2:MI:177:VAL:O	2.10	0.68
1:ML:339:SER:HB3	6:0A:111:GLU:H	1.59	0.68
1:N:251:ARG:HH22	2:NA:105:ARG:HD2	1.58	0.68
1:NF:213:ARG:NH1	1:NF:214:THR:OG1	2.27	0.68
1:NH:343:GLU:OE2	60:3s:99:ARG:NH2	2.27	0.68
1:RA:83:GLN:O	1:S:281:TYR:OH	2.07	0.68
1:RG:245:GLN:HE21	28:1Y:77:THR:HG21	1.57	0.68
1:SH:73:MET:HG3	1:SH:92:PHE:HB3	1.75	0.68
1:T:139:LEU:HD13	1:T:168:SER:HB2	1.76	0.68
2:TI:319:TYR:HB3	2:TI:323:VAL:HG21	1.76	0.68
1:W:232:VAL:HG22	1:W:268:MET:HE2	1.75	0.68
2:WE:174:SER:OG	2:WE:177:VAL:O	2.12	0.68
1:WJ:324:LYS:HE3	2:WK:210:TYR:HA	1.76	0.68
16:0k:901:GLN:O	16:0k:905:LYS:HG2	1.92	0.68
29:1m:224:ARG:HG3	29:1m:225:TYR:CD2	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:1o:102:MET:HA	30:1o:102:MET:HE3	1.75	0.68
41:2l:221:ARG:HA	41:2l:225:LYS:HB2	1.76	0.68
44:2w:23:ARG:NH2	44:2w:138:ASP:OD2	2.27	0.68
47:3D:288:MET:HE1	47:3D:292:ARG:HB2	1.75	0.68
64:5C:238:LEU:HG	65:5H:237:ARG:HH12	1.58	0.68
65:5G:240:GLN:OE1	65:5G:244:GLN:NE2	2.26	0.68
1:AJ:164:MET:HB3	1:AJ:197:ASP:H	1.59	0.68
2:AM:67:PHE:HB2	2:AM:92:LEU:HD12	1.76	0.68
2:BG:51:THR:HG21	2:BG:243:ARG:HG2	1.74	0.68
1:BJ:186:THR:HG23	1:BJ:415:MET:HG3	1.75	0.68
2:EG:339:ARG:NH1	2:EG:340:THR:OG1	2.26	0.68
1:EH:268:MET:H	1:EH:299:MET:HE1	1.56	0.68
1:EL:301:GLN:NE2	1:EL:303:ALA:O	2.27	0.68
1:FB:320:ARG:NH1	28:4W:45:ASP:OD2	2.27	0.68
1:G:51:PHE:HB3	1:G:59:TYR:HB3	1.75	0.68
1:HD:331:LEU:HD22	2:HE:177:VAL:HB	1.74	0.68
2:HG:104:ALA:HB2	2:HG:413:MET:HE2	1.76	0.68
2:HK:329:ASN:HD21	1:HL:175:VAL:HG13	1.58	0.68
2:IC:364:PRO:O	38:2U:205:ARG:NH1	2.27	0.68
1:JE:322:SER:OG	2:JF:222:PRO:O	2.11	0.68
2:KJ:174:SER:OG	2:KJ:177:VAL:O	2.11	0.68
1:KK:324:LYS:HZ1	2:KL:222:PRO:HG2	1.57	0.68
1:KM:324:LYS:NZ	2:KN:222:PRO:HG2	2.08	0.68
2:LH:295:VAL:HG21	2:LH:375:VAL:HG13	1.73	0.68
1:LI:113:ILE:HG12	1:LI:117:LEU:HD23	1.76	0.68
1:MB:132:GLY:HA2	1:MB:162:ARG:HB3	1.75	0.68
2:ME:225:THR:OG1	23:1A:132:GLU:OE2	2.11	0.68
2:ME:251:ASP:H	2:ME:254:GLU:HG3	1.58	0.68
1:MH:310:TYR:N	1:MH:340:TYR:O	2.24	0.68
1:MJ:295:ASP:OD2	1:MJ:297:LYS:NZ	2.23	0.68
2:MK:392:ASP:HB3	2:MK:425:LEU:HD23	1.76	0.68
2:NC:108:TYR:O	2:NC:112:LYS:NZ	2.21	0.68
1:QK:226:ASN:ND2	69:QK:500:GDP:O1A	2.27	0.68
2:RJ:29:GLY:HA2	28:1Y:123:PRO:HB3	1.76	0.68
2:SK:157:LEU:HB3	2:SK:166:LYS:HE2	1.74	0.68
2:SK:159:VAL:HG21	57:3i:167:TYR:HD2	1.59	0.68
2:UC:54:SER:HB3	2:UC:64:ARG:HE	1.59	0.68
2:UE:80:THR:O	2:UE:84:ARG:NH2	2.27	0.68
2:UE:286:LEU:O	2:UE:373:ARG:NH1	2.27	0.68
1:VF:66:MET:HE1	1:VF:151:LEU:HD22	1.74	0.68
2:WA:253:THR:HA	2:WA:256:GLN:HG2	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:XD:92:THR:HG22	3:XD:102:ARG:HG2	1.76	0.68
9:0N:70:SER:HB2	9:0N:120:GLU:HG2	1.74	0.68
28:1Y:144:THR:HG23	28:1Y:147:GLY:H	1.59	0.68
40:2Z:11:GLU:HG2	40:2Z:16:LYS:HD2	1.76	0.68
49:3Q:84:ASN:ND2	49:3Q:231:CYS:SG	2.66	0.68
66:5L:73:GLN:OE1	66:5L:75:LYS:NZ	2.27	0.68
1:AN:169:VAL:HG22	1:AN:202:ILE:HD11	1.75	0.68
2:BC:75:VAL:HG21	2:BC:94:SER:HB2	1.76	0.68
2:BC:91:GLN:H	2:BC:121:ARG:HH11	1.41	0.68
2:BG:104:ALA:HB2	2:BG:413:MET:HE3	1.75	0.68
2:CB:326:LYS:NZ	2:CB:329:ASN:OD1	2.26	0.68
2:CL:71:GLU:HB2	2:CL:98:ASP:HB3	1.75	0.68
1:ED:293:MET:HE1	1:ED:315:ALA:HB2	1.76	0.68
2:EI:288:VAL:HB	2:EI:327:ASP:HB3	1.75	0.68
1:F:99:ASN:OD1	1:F:184:ASN:ND2	2.26	0.68
1:F:100:ASN:HD21	1:F:401:GLU:HG3	1.59	0.68
2:FE:365:GLY:HA3	28:4W:84:LEU:HB3	1.76	0.68
2:FI:326:LYS:HZ1	1:FJ:220:PRO:HG2	1.58	0.68
1:G:5:VAL:HG23	1:G:62:ARG:HB3	1.74	0.68
2:HK:75:VAL:HG21	2:HK:94:SER:HB2	1.76	0.68
1:I:324:LYS:HG2	2:IA:210:TYR:CG	2.28	0.68
2:JB:180:ALA:HB3	2:JB:183:GLU:HB2	1.74	0.68
1:KI:377:MET:HG2	1:KI:380:ARG:HH12	1.58	0.68
1:LA:267:MET:HE1	1:LA:301:GLN:HE21	1.59	0.68
1:M:236:VAL:HG13	1:M:237:THR:HG23	1.75	0.68
1:ML:8:GLN:HG2	1:ML:17:GLY:HA3	1.76	0.68
2:NE:392:ASP:HB2	2:NE:422:ARG:HH12	1.59	0.68
2:NM:265:ILE:HG22	2:NM:380:ASN:HD21	1.57	0.68
2:OC:195:LEU:HD21	2:OC:264:ARG:HE	1.56	0.68
2:OC:298:PRO:HB3	2:OC:308:ARG:HH12	1.58	0.68
2:OM:259:LEU:HD21	2:OM:316:CYS:HB2	1.74	0.68
2:PM:238:LEU:HD11	2:PM:378:ILE:HD11	1.75	0.68
2:RH:315:CYS:HB3	2:RH:377:MET:HE2	1.76	0.68
2:SA:315:CYS:HB3	2:SA:377:MET:HE1	1.74	0.68
2:TG:90:GLU:HB2	2:TG:121:ARG:HE	1.59	0.68
1:TJ:73:MET:HA	1:TJ:76:VAL:HG12	1.75	0.68
1:UL:242:PHE:HB3	1:UL:356:ILE:HD13	1.76	0.68
2:VA:174:SER:OG	2:VA:177:VAL:O	2.12	0.68
2:WI:325:PRO:HA	2:WI:328:VAL:HG22	1.76	0.68
5:XP:128:PRO:HG2	5:XP:176:ARG:HH12	1.58	0.68
17:0n:3:SER:HB2	17:0n:7:ARG:HH12	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:2w:326:ASN:HB3	44:2w:372:LEU:HD12	1.75	0.68
1:AH:232:VAL:HG23	1:AH:366:THR:HB	1.75	0.67
2:AM:71:GLU:HB3	2:AM:98:ASP:HB2	1.76	0.67
1:BD:249:ASP:H	1:BD:252:LYS:HB2	1.59	0.67
2:BE:98:ASP:O	2:BE:105:ARG:NH1	2.27	0.67
2:DF:11:GLN:HG2	2:DF:74:VAL:HG11	1.76	0.67
2:DH:217:LEU:HD21	2:DH:275:VAL:HG22	1.77	0.67
1:EL:8:GLN:HG2	1:EL:17:GLY:HA3	1.75	0.67
1:GB:375:GLN:OE1	1:GB:379:ARG:NH2	2.27	0.67
1:GJ:236:VAL:HG13	1:GJ:237:THR:HG23	1.76	0.67
1:GL:207:LEU:HB3	1:GL:225:LEU:HD22	1.74	0.67
1:GL:237:THR:HG22	1:GL:250:LEU:HD21	1.75	0.67
2:HA:217:LEU:HD21	2:HA:275:VAL:HG22	1.76	0.67
2:HE:326:LYS:NZ	1:HF:220:PRO:O	2.27	0.67
1:IB:226:ASN:OD1	69:IB:500:GDP:N1	2.24	0.67
1:IJ:282:ARG:HH22	1:IJ:292:GLN:NE2	1.92	0.67
2:JJ:422:ARG:HG3	60:3s:119:LEU:HD11	1.77	0.67
2:KD:197:HIS:HE1	31:1q:15:CYS:SG	2.17	0.67
2:LN:419:SER:OG	6:0A:244:ARG:NH2	2.26	0.67
1:MB:338:SER:HB3	13:0Y:70:ARG:HH21	1.59	0.67
1:NB:139:LEU:HG	1:NB:168:SER:HB2	1.76	0.67
1:NB:347:ASN:HD22	2:NC:178:SER:HB3	1.59	0.67
1:O:251:ARG:NH2	2:OA:98:ASP:O	2.28	0.67
2:OA:316:CYS:HB3	2:OA:378:ILE:HB	1.75	0.67
1:PF:60:VAL:HG11	1:PF:86:ARG:HE	1.59	0.67
1:PF:322:SER:OG	2:PG:222:PRO:O	2.12	0.67
2:QH:27:GLU:OE1	2:QH:243:ARG:NH2	2.27	0.67
1:RI:9:ALA:HB3	1:RI:137:HIS:HB3	1.76	0.67
1:SD:96:GLY:O	1:SD:103:LYS:NZ	2.27	0.67
1:SD:200:MET:HG2	1:SD:266:PHE:HB2	1.74	0.67
1:SD:311:LEU:HD11	1:SD:372:THR:HG23	1.76	0.67
2:UG:180:ALA:HB3	2:UG:183:GLU:HB2	1.74	0.67
1:V:293:MET:HE1	1:V:330:MET:HE1	1.75	0.67
2:VA:204:LEU:HD22	2:VA:231:ILE:HD12	1.76	0.67
3:XA:109:GLN:HB3	3:XA:122:PRO:HB3	1.75	0.67
17:0n:253:ARG:HD2	42:2r:105:ASN:ND2	2.09	0.67
24:1H:340:ALA:HA	24:1H:343:ILE:HG22	1.76	0.67
1:A:14:ASN:ND2	1:A:67:ASP:OD1	2.27	0.67
1:A:209:ASP:OD1	1:A:213:ARG:NH1	2.26	0.67
2:BA:195:LEU:HD11	2:BA:428:LEU:HD22	1.77	0.67
2:BC:180:ALA:HB3	2:BC:183:GLU:HB2	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:273:ALA:HB3	2:C:295:VAL:HG23	1.76	0.67
1:CK:129:CYS:HB2	2:CL:96:LYS:HE2	1.77	0.67
1:DG:267:MET:HB2	1:DG:369:GLY:H	1.59	0.67
1:DG:347:ASN:ND2	2:DH:178:SER:O	2.27	0.67
2:EE:217:LEU:HD21	2:EE:275:VAL:HG22	1.75	0.67
1:EJ:267:MET:HB3	1:EJ:369:GLY:H	1.58	0.67
1:EL:319:GLY:HA2	1:EL:357:PRO:HG3	1.75	0.67
1:G:309:ARG:NH2	1:G:426:GLN:O	2.25	0.67
1:GH:55:SER:HB3	1:HH:284:LEU:H	1.59	0.67
1:HB:347:ASN:ND2	2:HC:178:SER:OG	2.25	0.67
2:HI:402:ARG:HG3	2:HI:405:VAL:HG11	1.76	0.67
1:HJ:224:ASP:HA	1:HJ:227:HIS:HD2	1.58	0.67
1:HJ:301:GLN:NE2	1:HJ:377:MET:SD	2.67	0.67
1:IJ:174:ARG:NH1	1:IJ:205:GLU:OE1	2.26	0.67
2:IM:75:VAL:HG21	2:IM:94:SER:HB3	1.76	0.67
1:JK:70:PRO:HB2	18:0p:235:MET:HE2	1.75	0.67
1:MD:253:LEU:HD21	1:MD:316:LEU:HD21	1.76	0.67
1:MD:310:TYR:HD2	1:MD:340:TYR:HB3	1.59	0.67
2:MG:285:GLN:HE22	2:MG:287:SER:HB3	1.59	0.67
1:MN:317:PHE:HE2	1:MN:330:MET:HE1	1.57	0.67
1:N:248:SER:HA	1:N:252:LYS:HG2	1.76	0.67
1:NJ:83:GLN:OE1	1:OJ:281:TYR:OH	2.13	0.67
2:PM:270:THR:HG23	2:PM:302:LEU:HB3	1.76	0.67
1:RK:345:ILE:O	1:RK:348:ASN:ND2	2.27	0.67
2:SK:102:ASN:HB3	2:SK:105:ARG:HB2	1.75	0.67
2:TK:239:THR:OG1	2:TK:243:ARG:NH1	2.27	0.67
2:TK:338:LYS:HA	61:3x:110:PHE:CE1	2.29	0.67
1:UD:323:THR:HG22	2:UE:223:SER:HA	1.75	0.67
2:UK:31:GLN:NE2	2:UK:35:SER:O	2.26	0.67
1:VL:207:LEU:HB3	1:VL:225:LEU:HD22	1.75	0.67
1:WF:232:VAL:HG11	1:WF:300:MET:HE1	1.76	0.67
1:WF:322:SER:OG	1:WF:325:GLU:OE1	2.11	0.67
3:XC:38:THR:HA	3:XC:45:SER:HA	1.75	0.67
8:0G:365:ILE:HD12	8:0G:368:ARG:HD3	1.75	0.67
8:0I:88:ASP:OD1	9:0M:543:ARG:NH1	2.27	0.67
9:0O:253:THR:HA	9:0O:292:LEU:HD21	1.74	0.67
24:1H:115:VAL:HG12	24:1H:207:ASP:HB3	1.76	0.67
28:1b:33:LEU:CD2	41:2h:337:LEU:HD11	2.23	0.67
22:1x:187:LEU:HD21	48:3G:111:ASN:ND2	2.08	0.67
28:4W:30:CYS:SG	72:4W:300:ZN:ZN	1.83	0.67
2:AA:27:GLU:OE1	2:AA:243:ARG:NH1	2.26	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:413:SER:HB2	4:XM:204:LYS:HE2	1.75	0.67
2:AC:258:ASN:HD21	1:AD:178:THR:HG23	1.58	0.67
1:BF:103:LYS:NZ	1:BF:401:GLU:OE2	2.28	0.67
2:CH:188:VAL:O	2:CH:191:THR:OG1	2.13	0.67
1:CK:167:PHE:CD2	1:CK:233:MET:HE2	2.30	0.67
2:DL:203:MET:HE1	2:DL:267:PHE:HB3	1.76	0.67
1:E:257:LEU:HD11	1:E:314:SER:HB2	1.75	0.67
1:EB:19:LYS:HA	1:EB:22:GLU:HG2	1.77	0.67
1:EB:66:MET:HE1	1:EB:151:LEU:HD22	1.76	0.67
2:EC:288:VAL:HB	2:EC:327:ASP:HB3	1.75	0.67
1:EJ:327:ASP:OD2	1:EJ:328:GLU:N	2.27	0.67
2:EK:51:THR:HG21	2:EK:243:ARG:HG2	1.76	0.67
1:F:200:MET:HG2	1:F:266:PHE:HB2	1.76	0.67
2:FK:320:ARG:HH21	2:FK:360:PRO:HA	1.58	0.67
1:G:149:THR:HA	1:G:152:ILE:HD12	1.75	0.67
1:GB:207:LEU:HB3	1:GB:225:LEU:HD22	1.75	0.67
2:GI:51:THR:HG23	2:GI:52:PHE:HD1	1.59	0.67
1:GJ:148:GLY:O	1:GJ:152:ILE:HG13	1.94	0.67
1:GJ:301:GLN:NE2	1:GJ:377:MET:SD	2.68	0.67
1:HB:321:MET:HB3	1:HB:363:MET:HE2	1.75	0.67
2:HI:377:MET:HE3	2:HI:379:ALA:HB2	1.75	0.67
2:IM:258:ASN:HB3	2:IM:352:LYS:HG3	1.75	0.67
1:LA:152:ILE:HD11	1:LA:196:SER:HB2	1.77	0.67
2:LH:116:ASP:OD2	13:0Z:58:GLY:N	2.28	0.67
1:LM:268:MET:HB3	1:LM:300:MET:HG2	1.76	0.67
1:M:345:ILE:HG23	2:MA:398:MET:HE1	1.76	0.67
2:MG:180:ALA:HB3	2:MG:183:GLU:HB2	1.75	0.67
1:O:330:MET:HE2	1:O:349:ILE:HG23	1.76	0.67
2:OE:270:THR:HG23	2:OE:302:LEU:HB2	1.76	0.67
2:OG:265:ILE:HG22	2:OG:380:ASN:HD21	1.59	0.67
1:OJ:210:ILE:HG21	1:OJ:228:LEU:HD21	1.76	0.67
1:PL:19:LYS:HE3	1:PL:223:GLY:HA2	1.76	0.67
1:RI:253:LEU:HD21	1:RI:316:LEU:HD21	1.75	0.67
6:0A:55:GLU:OE2	6:0A:191:ARG:NH1	2.27	0.67
7:0D:395:ILE:HG13	7:0D:399:LYS:NZ	2.08	0.67
8:0F:50:GLY:HA3	8:0F:55:HIS:CG	2.26	0.67
15:0f:95:ALA:HB3	15:0f:98:GLU:HB3	1.75	0.67
23:1E:388:ASP:HA	23:1E:391:LYS:HB2	1.75	0.67
25:1O:261:HIS:HB2	25:1O:266:ILE:HD11	1.75	0.67
38:2V:126:ARG:NH1	38:2V:138:ASP:OD2	2.28	0.67
48:3I:104:GLN:NE2	48:3I:105:GLU:OE2	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:5B:214:VAL:HG22	64:5B:217:ARG:HH21	1.60	0.67
67:5P:26:VAL:HG22	67:5P:110:VAL:HG22	1.74	0.67
1:AD:156:ARG:NH1	1:AD:197:ASP:OD1	2.27	0.67
2:AG:254:GLU:O	2:AG:258:ASN:ND2	2.27	0.67
2:AI:42:ILE:HD12	2:AI:44:VAL:HG22	1.76	0.67
1:AL:165:MET:HE1	1:AL:250:LEU:HD22	1.75	0.67
1:AN:60:VAL:HG21	1:AN:86:ARG:HG3	1.77	0.67
1:DA:331:LEU:HD11	2:DB:176:GLN:HB3	1.76	0.67
1:EB:129:CYS:HB2	2:EC:96:LYS:HE3	1.74	0.67
1:EH:27:GLU:OE2	1:EH:318:ARG:NH2	2.25	0.67
2:EK:392:ASP:HB3	2:EK:425:LEU:HD23	1.76	0.67
1:FH:236:VAL:HG13	1:FH:237:THR:HG23	1.77	0.67
2:GC:337:THR:OG1	59:4O:175:ARG:CZ	2.41	0.67
1:GL:33:THR:O	1:GL:58:ARG:NH2	2.28	0.67
2:HI:228:ASN:OD1	71:HI:501:GTP:N1	2.22	0.67
2:HK:195:LEU:HD22	2:HK:428:LEU:HD21	1.75	0.67
1:ID:226:ASN:OD1	69:ID:500:GDP:N1	2.27	0.67
1:IH:377:MET:HA	1:IH:380:ARG:HG2	1.76	0.67
2:K:75:VAL:HG21	2:K:94:SER:HB2	1.76	0.67
1:KA:63:ALA:O	1:KA:89:ASN:ND2	2.27	0.67
2:KF:27:GLU:OE2	2:KF:361:THR:OG1	2.10	0.67
2:KL:174:SER:OG	2:KL:177:VAL:O	2.12	0.67
1:LC:344:TRP:HZ3	2:LD:403:ALA:HB2	1.59	0.67
2:LH:180:ALA:HB3	2:LH:183:GLU:HB2	1.76	0.67
2:LN:174:SER:HB2	2:LN:207:GLU:HB2	1.77	0.67
2:LN:319:TYR:HB3	2:LN:323:VAL:HG11	1.75	0.67
1:LO:310:TYR:HE2	1:LO:367:PHE:HZ	1.42	0.67
2:OC:364:PRO:HD2	28:1g:194:LYS:HD3	1.76	0.67
2:Q:142:GLY:HA2	2:Q:183:GLU:HG3	1.75	0.67
1:RC:330:MET:HE3	1:RC:349:ILE:HD13	1.77	0.67
2:RJ:265:ILE:HD13	2:RJ:432:TYR:HE1	1.59	0.67
2:TA:295:VAL:HG21	2:TA:375:VAL:HG13	1.75	0.67
1:TD:318:ARG:HB3	1:TD:357:PRO:HA	1.76	0.67
1:UF:162:ARG:NH2	2:UG:97:GLU:OE2	2.28	0.67
1:VL:242:PHE:HB3	1:VL:356:ILE:HD13	1.75	0.67
1:WF:163:ILE:HD13	1:WF:250:LEU:HB3	1.74	0.67
1:WF:170:ILE:HG13	1:WF:377:MET:HE1	1.75	0.67
2:WI:169:TYR:HA	2:WI:202:THR:HB	1.75	0.67
9:0M:169:ILE:HG12	9:0M:178:VAL:HG22	1.76	0.67
16:0k:261:SER:OG	16:0k:264:GLU:OE1	2.12	0.67
20:0t:126:PRO:HD3	23:1E:332:LEU:HD11	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BN:60:VAL:HG11	1:BN:86:ARG:HG3	1.75	0.67
1:CE:289:LEU:HD12	1:CE:363:MET:HE2	1.76	0.67
1:DA:178:THR:HG22	1:DA:180:VAL:H	1.58	0.67
1:DG:286:VAL:HG11	1:DG:325:GLU:HB3	1.76	0.67
1:GB:245:GLN:NE2	2:GC:223:SER:OG	2.20	0.67
2:GE:250:VAL:HG21	2:GE:318:MET:HE1	1.76	0.67
1:I:290:THR:HA	1:I:293:MET:HE3	1.77	0.67
1:IB:279:GLN:HE21	1:IB:282:ARG:HH22	1.41	0.67
1:JE:304:ASP:OD1	1:JE:306:ARG:NH2	2.27	0.67
1:JE:320:ARG:HH22	19:0r:164:ASP:HB3	1.59	0.67
2:KF:75:VAL:HG13	2:KF:92:LEU:HD23	1.76	0.67
1:KK:347:ASN:ND2	2:KL:178:SER:O	2.28	0.67
2:LD:203:MET:HA	2:LD:203:MET:HE3	1.76	0.67
2:LF:324:VAL:HG22	2:LF:326:LYS:H	1.58	0.67
2:LL:117:LEU:HD13	14:0d:74:THR:HG23	1.75	0.67
2:MC:319:TYR:HB3	2:MC:323:VAL:HG21	1.76	0.67
1:ML:99:ASN:HD22	1:ML:141:GLY:HA2	1.58	0.67
2:OC:60:LYS:HD3	41:2k:190:TRP:CZ2	2.30	0.67
2:OC:251:ASP:H	2:OC:254:GLU:HG3	1.60	0.67
2:QF:51:THR:HG21	2:QF:243:ARG:HG2	1.77	0.67
1:QI:202:ILE:HD11	1:QI:268:MET:HE3	1.76	0.67
1:RC:316:LEU:HD13	1:RC:352:SER:HB2	1.75	0.67
2:SG:178:SER:OG	2:SG:183:GLU:OE1	2.13	0.67
2:SG:377:MET:HE2	2:SG:379:ALA:HB2	1.75	0.67
1:TB:268:MET:HG3	1:TB:300:MET:SD	2.35	0.67
1:TF:152:ILE:HG22	1:TF:195:ASN:HB3	1.77	0.67
1:TF:214:THR:OG1	1:TF:297:LYS:NZ	2.17	0.67
1:UF:309:ARG:H	1:UF:372:THR:HG22	1.58	0.67
6:0:162:SER:H	33:2F:286:PRO:CD	2.08	0.67
24:1K:657:ARG:NH2	24:1K:711:GLU:OE2	2.28	0.67
29:1l:79:ILE:HD12	44:2w:349:ILE:HD12	1.75	0.67
1:AJ:198:GLU:HB2	1:AJ:266:PHE:HE2	1.58	0.67
2:D:3:GLU:HB3	2:D:132:LEU:HA	1.77	0.67
1:DI:139:LEU:HA	1:DI:145:SER:HB3	1.76	0.67
2:EC:265:ILE:HG22	2:EC:380:ASN:HD21	1.60	0.67
2:EG:104:ALA:HB2	2:EG:413:MET:HE2	1.77	0.67
2:EI:174:SER:OG	2:EI:177:VAL:O	2.13	0.67
1:FB:232:VAL:HG11	1:FB:300:MET:HE1	1.75	0.67
1:FB:377:MET:HG2	1:FB:380:ARG:HH21	1.60	0.67
2:JH:329:ASN:HD21	1:JI:175:VAL:HG13	1.58	0.67
1:KK:2:ARG:HH22	2:KL:73:THR:HG23	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KL:258:ASN:ND2	2:KL:352:LYS:HD3	2.09	0.67
1:LG:294:PHE:HB3	35:2N:247:PHE:HB2	1.75	0.67
1:MF:227:HIS:HE1	26:1Q:14:LYS:HD2	1.59	0.67
2:MG:325:PRO:O	2:MG:329:ASN:ND2	2.27	0.67
1:MH:336:LYS:HZ3	32:2C:214:MET:HE1	1.60	0.67
2:NK:60:LYS:HE3	41:2o:190:TRP:CH2	2.28	0.67
1:O:10:GLY:O	1:O:14:ASN:ND2	2.28	0.67
1:OB:215:LEU:HB3	1:OB:217:LEU:HG	1.75	0.67
1:SF:226:ASN:OD1	69:SF:500:GDP:N1	2.27	0.67
2:TC:167:LEU:HG	2:TC:200:VAL:HB	1.77	0.67
2:TE:286:LEU:O	2:TE:373:ARG:NH1	2.26	0.67
1:TF:165:MET:HE1	1:TF:236:VAL:HG11	1.75	0.67
9:0O:151:HIS:HB2	9:0O:177:ARG:HH12	1.60	0.67
21:0x:505:ASP:OD1	21:0x:508:ARG:NH2	2.27	0.67
23:1B:217:ARG:HH22	45:2z:184:LEU:HG	1.60	0.67
26:1Q:176:ARG:O	26:1Q:180:GLU:HG2	1.95	0.67
27:1T:735:LEU:HG	27:1T:844:MET:HG2	1.76	0.67
34:2L:73:PHE:HB2	34:2L:79:GLU:HB2	1.76	0.67
35:2N:187:THR:HG22	35:2N:188:GLY:H	1.59	0.67
49:3P:516:VAL:HG11	49:3P:554:VAL:HG22	1.75	0.67
64:5B:97:LEU:O	64:5B:101:ILE:N	2.22	0.67
2:BI:297:GLU:OE2	2:BI:338:LYS:NZ	2.27	0.67
1:DI:324:LYS:NZ	2:DJ:210:TYR:HA	2.10	0.67
1:F:2:ARG:HH12	2:FA:71:GLU:HG2	1.59	0.67
2:GA:102:ASN:HB3	2:GA:105:ARG:HB2	1.76	0.67
2:HA:259:LEU:HD21	2:HA:316:CYS:HB2	1.75	0.67
2:HG:180:ALA:HB3	2:HG:183:GLU:HB2	1.76	0.67
1:HH:346:PRO:HD2	2:HI:398:MET:HG3	1.75	0.67
1:IF:48:ASN:O	1:IF:62:ARG:NH2	2.26	0.67
2:J:349:THR:HG23	1:JA:384:GLN:HE21	1.57	0.67
1:JK:347:ASN:ND2	2:JL:178:SER:OG	2.24	0.67
2:K:245:ASP:OD2	2:K:246:GLY:N	2.27	0.67
1:KK:31:ASP:OD2	49:3Q:150:ARG:NH2	2.27	0.67
1:LE:163:ILE:HG21	1:LE:250:LEU:HB3	1.76	0.67
2:LL:244:PHE:O	2:LL:356:ASN:ND2	2.26	0.67
1:ML:67:ASP:HA	1:ML:143:THR:HG21	1.77	0.67
1:MN:282:ARG:NH2	1:MN:288:GLU:OE1	2.27	0.67
1:NH:8:GLN:HG2	1:NH:17:GLY:HA3	1.76	0.67
1:OD:148:GLY:O	1:OD:152:ILE:HG12	1.95	0.67
2:OG:296:PHE:HD2	2:OG:335:ILE:HD13	1.60	0.67
1:P:114:ASP:OD1	1:P:115:SER:N	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PL:48:ASN:O	1:PL:62:ARG:NH1	2.28	0.67
1:QC:330:MET:HB3	1:QC:349:ILE:HG21	1.77	0.67
2:QL:226:ASN:ND2	2:QL:367:ASP:OD1	2.27	0.67
2:R:71:GLU:HB3	2:R:98:ASP:HB3	1.77	0.67
2:RB:88:ASN:OD1	2:RB:89:PRO:HD2	1.95	0.67
1:RG:207:LEU:HB3	1:RG:225:LEU:HD22	1.76	0.67
1:TB:210:ILE:HG23	1:TB:214:THR:HB	1.77	0.67
2:TE:372:GLN:HG2	21:0w:274:ASN:HD22	1.59	0.67
1:UF:163:ILE:HG12	1:UF:250:LEU:HB3	1.75	0.67
17:0n:192:ASP:OD2	43:2t:240:ARG:NH1	2.27	0.67
24:1I:95:LEU:HD21	24:1I:190:LEU:HD23	1.77	0.67
24:1K:564:ASP:HA	24:1K:567:LEU:HD12	1.75	0.67
43:2t:171:ALA:HB2	43:2t:313:MET:HG3	1.77	0.67
44:2w:343:VAL:HA	44:2w:347:ASP:HB2	1.75	0.67
1:AF:268:MET:HE1	1:AF:368:ILE:HG23	1.77	0.67
1:AJ:392:LYS:NZ	3:XD:99:MET:SD	2.68	0.67
2:AK:254:GLU:HA	1:AL:98:GLY:HA2	1.77	0.67
1:CG:15:GLN:NE2	69:CG:500:GDP:O6	2.27	0.67
1:E:2:ARG:HH12	2:EA:72:PRO:HD2	1.59	0.67
2:EA:138:PHE:HE2	2:EA:235:VAL:HG11	1.60	0.67
2:FA:251:ASP:H	2:FA:254:GLU:HB2	1.59	0.67
2:GK:234:VAL:HG21	2:GK:302:LEU:HD11	1.76	0.67
1:HB:189:VAL:HG11	1:HB:415:MET:HE3	1.75	0.67
2:HE:85:GLN:NE2	7:0D:72:ASP:OD2	2.28	0.67
2:K:88:ASN:ND2	2:K:90:GLU:OE2	2.28	0.67
2:K:259:LEU:HD21	2:K:268:VAL:HG11	1.75	0.67
1:LE:237:THR:HG22	1:LE:250:LEU:HD11	1.77	0.67
1:LE:389:PHE:HE1	1:LE:395:LEU:HD21	1.58	0.67
2:LJ:326:LYS:HZ2	1:LK:212:PHE:HB2	1.58	0.67
2:LN:240:ALA:O	2:LN:356:ASN:ND2	2.28	0.67
2:MC:26:LEU:HD22	2:MC:363:VAL:HG12	1.75	0.67
2:MK:238:LEU:HA	2:MK:318:MET:HG3	1.77	0.67
2:NI:64:ARG:NH1	2:NI:129:CYS:SG	2.67	0.67
2:PA:239:THR:OG1	2:PA:243:ARG:NH1	2.28	0.67
2:PM:174:SER:HB2	2:PM:207:GLU:OE1	1.94	0.67
1:QA:324:LYS:NZ	2:QB:222:PRO:HD2	2.09	0.67
1:QI:322:SER:OG	2:QJ:222:PRO:O	2.13	0.67
1:RC:324:LYS:HE3	2:RD:214:ARG:HE	1.60	0.67
1:RI:251:ARG:NH2	2:RJ:97:GLU:OE2	2.28	0.67
2:SE:270:THR:HG22	2:SE:378:ILE:HG22	1.77	0.67
2:SI:364:PRO:O	28:1V:50:LYS:NZ	2.23	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:TC:178:SER:OG	2:TC:183:GLU:OE1	2.12	0.67
1:TH:83:GLN:NE2	1:UH:281:TYR:OH	2.22	0.67
1:TJ:313:ALA:HB3	1:TJ:349:ILE:HG13	1.77	0.67
1:TJ:337:ASN:ND2	61:3x:81:VAL:HG23	2.09	0.67
2:UK:269:LEU:HD23	2:UK:384:ILE:HD11	1.75	0.67
1:VD:392:LYS:HD3	1:VD:395:LEU:HD12	1.75	0.67
1:VJ:207:LEU:HD13	1:VJ:225:LEU:HB3	1.77	0.67
2:WE:120:ASP:OD2	2:WE:121:ARG:N	2.27	0.67
1:WJ:164:MET:HB3	1:WJ:197:ASP:H	1.59	0.67
3:XA:115:LYS:O	3:XA:144:TYR:OH	2.12	0.67
5:XN:257:ASN:HD22	5:XN:307:VAL:HA	1.60	0.67
20:0u:117:ALA:HB3	20:0u:140:PRO:HB2	1.76	0.67
23:1E:98:HIS:ND1	45:2z:72:GLN:CG	2.56	0.67
24:1H:647:ARG:HH12	24:1H:651:GLU:HB2	1.59	0.67
24:1I:261:TRP:HB2	24:1I:356:VAL:HG12	1.76	0.67
27:1S:488:ARG:NH1	27:1S:568:GLU:OE2	2.24	0.67
27:1S:644:ARG:N	27:1S:654:GLU:OE2	2.26	0.67
61:3w:172:TRP:O	61:3w:176:MET:HB2	1.94	0.67
2:AE:253:THR:HA	2:AE:256:GLN:HG3	1.76	0.67
2:AI:98:ASP:OD1	2:AI:99:ALA:N	2.28	0.67
1:BB:276:ARG:NH1	24:1H:111:GLU:OE2	2.24	0.67
2:BC:57:GLY:O	27:1S:272:SER:OG	2.12	0.67
1:CC:251:ARG:NH1	2:CD:97:GLU:OE2	2.27	0.67
2:CD:195:LEU:HD12	2:CD:264:ARG:HE	1.58	0.67
1:FJ:249:ASP:H	1:FJ:252:LYS:HB3	1.59	0.67
2:GA:7:ILE:HG22	2:GA:66:LEU:HB3	1.77	0.67
1:IF:309:ARG:NH1	1:IF:426:GLN:O	2.28	0.67
2:KB:173:PRO:HB3	2:KB:183:GLU:HG2	1.76	0.67
1:KG:323:THR:HA	1:KG:326:VAL:HG12	1.76	0.67
1:KI:2:ARG:N	1:KI:129:CYS:O	2.28	0.67
2:LB:174:SER:OG	2:LB:177:VAL:O	2.12	0.67
2:LD:265:ILE:HG21	2:LD:313:MET:HE1	1.75	0.67
2:LF:163:LYS:NZ	33:2G:209:CYS:O	2.27	0.67
2:LN:192:HIS:CE1	2:LN:421:ALA:HA	2.29	0.67
2:MC:174:SER:OG	2:MC:177:VAL:O	2.13	0.67
2:MM:326:LYS:NZ	1:MN:208:TYR:HA	2.09	0.67
1:MN:218:THR:HG22	1:MN:219:THR:HG23	1.77	0.67
1:NH:324:LYS:HE3	2:NI:210:TYR:CD1	2.30	0.67
2:OC:209:ILE:HG12	2:OC:302:LEU:HD12	1.77	0.67
2:OG:97:GLU:OE1	2:OG:105:ARG:NH2	2.28	0.67
2:OG:271:SER:HA	2:OG:302:LEU:HD23	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OI:174:SER:OG	2:OI:177:VAL:O	2.12	0.67
1:OL:205:GLU:HB2	1:OL:302:ALA:HB2	1.77	0.67
1:P:246:LEU:HD11	71:PA:501:GTP:H5"	1.77	0.67
1:P:322:SER:OG	2:PA:222:PRO:O	2.11	0.67
1:PB:163:ILE:HD11	1:PB:251:ARG:HG3	1.76	0.67
1:PH:122:LYS:NZ	1:QG:291:GLN:OE1	2.27	0.67
1:QA:325:GLU:HG3	59:4a:144:PRO:HG2	1.76	0.67
2:QF:195:LEU:HD11	2:QF:428:LEU:HD13	1.77	0.67
1:QI:207:LEU:HB3	1:QI:225:LEU:HD22	1.75	0.67
1:QK:392:LYS:NZ	1:QK:405:GLU:OE2	2.21	0.67
1:U:139:LEU:HG	1:U:168:SER:HB3	1.77	0.67
1:UJ:324:LYS:HD3	2:UK:222:PRO:HD2	1.77	0.67
9:0O:109:VAL:HG12	9:0O:110:LYS:HG3	1.77	0.67
14:0c:319:ARG:HH12	14:0c:323:LEU:HD21	1.59	0.67
25:1O:624:VAL:HG13	25:1O:635:ILE:HD11	1.75	0.67
26:1Q:68:PRO:HD2	26:1Q:71:ILE:HD11	1.77	0.67
2:AE:27:GLU:OE1	2:AE:243:ARG:NH1	2.26	0.67
2:BI:365:GLY:HA2	16:0l:805:ARG:HG2	1.74	0.67
2:C:237:SER:HA	2:C:320:ARG:HD2	1.77	0.67
2:EE:45:GLU:OE1	25:1O:495:LYS:NZ	2.26	0.67
1:EJ:197:ASP:OD1	1:EJ:198:GLU:N	2.28	0.67
2:EK:251:ASP:H	2:EK:254:GLU:HB3	1.60	0.67
2:FC:315:CYS:HB3	2:FC:377:MET:HE2	1.76	0.67
2:FI:326:LYS:HE3	1:FJ:208:TYR:CD2	2.30	0.67
2:IG:326:LYS:HE3	1:IH:220:PRO:HD2	1.76	0.67
2:JH:91:GLN:HG2	2:JH:121:ARG:HB3	1.77	0.67
2:K:209:ILE:HG12	2:K:302:LEU:HD22	1.76	0.67
1:KA:232:VAL:HG11	1:KA:268:MET:HG2	1.77	0.67
2:KD:51:THR:HG21	2:KD:243:ARG:HG2	1.76	0.67
2:KD:288:VAL:HB	2:KD:327:ASP:HB3	1.77	0.67
1:KM:173:PRO:HG2	1:KM:380:ARG:HD2	1.77	0.67
1:LK:249:ASP:H	1:LK:252:LYS:HB2	1.60	0.67
1:MD:330:MET:HG2	1:MD:349:ILE:HG21	1.76	0.67
1:NF:236:VAL:HG13	1:NF:237:THR:HG23	1.76	0.67
2:NI:120:ASP:OD1	2:NI:123:ARG:NH2	2.28	0.67
2:OA:203:MET:HA	2:OA:203:MET:HE3	1.77	0.67
2:OG:76:ASP:OD1	2:OG:79:ARG:NH1	2.28	0.67
1:P:200:MET:HB3	1:P:266:PHE:HB2	1.75	0.67
1:PB:134:GLN:HA	1:PB:165:MET:HB3	1.77	0.67
1:QC:65:LEU:HB3	1:QC:73:MET:HE1	1.76	0.67
2:RL:53:PHE:HB3	2:RL:61:HIS:HB3	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SD:292:GLN:O	1:SD:298:ASN:ND2	2.18	0.67
1:SH:329:GLN:HE21	59:3p:198:SER:HB3	1.60	0.67
1:TF:257:LEU:HD11	1:TF:314:SER:HB2	1.76	0.67
2:UE:133:GLN:O	2:UE:165:SER:HB3	1.95	0.67
1:V:129:CYS:HB2	2:VA:96:LYS:HE3	1.77	0.67
1:VJ:328:GLU:OE2	1:VJ:332:ASN:ND2	2.28	0.67
1:VL:286:VAL:HG13	1:VL:325:GLU:HB2	1.76	0.67
1:WB:161:ASP:OD1	1:WB:162:ARG:NH1	2.27	0.67
16:0k:38:CYS:O	16:0k:40:ARG:NH1	2.28	0.67
16:0k:46:PHE:HD1	16:0k:96:VAL:HG11	1.59	0.67
24:1I:452:ASN:HD21	24:1I:486:ARG:HA	1.58	0.67
44:2w:388:ILE:HG13	44:2w:389:ILE:HG23	1.77	0.67
48:3I:51:LEU:HD12	48:3I:55:LEU:HD13	1.76	0.67
2:AC:98:ASP:O	2:AC:105:ARG:NH2	2.27	0.66
2:AC:324:VAL:HG12	2:AC:326:LYS:H	1.60	0.66
2:AG:174:SER:OG	2:AG:177:VAL:O	2.13	0.66
1:AH:19:LYS:HZ2	1:AH:230:ALA:HB2	1.60	0.66
2:BG:212:LEU:HD21	2:BG:275:VAL:HG11	1.77	0.66
2:BI:221:ARG:NH2	16:0l:790:ASP:OD2	2.28	0.66
1:CI:246:LEU:HD21	2:CJ:179:THR:HG21	1.75	0.66
2:EK:352:LYS:HA	1:EL:177:ASP:O	1.94	0.66
1:F:31:ASP:OD2	1:F:37:GLN:NE2	2.28	0.66
1:G:267:MET:SD	1:G:301:GLN:NE2	2.67	0.66
1:G:350:LYS:HD2	2:GA:180:ALA:HA	1.77	0.66
1:HH:55:SER:HB2	7:0D:162:ASP:H	1.59	0.66
2:II:172:TYR:CD2	2:II:203:MET:HG3	2.29	0.66
1:JI:342:ILE:HD11	1:JI:345:ILE:HD12	1.77	0.66
2:KF:326:LYS:NZ	1:KG:220:PRO:O	2.23	0.66
1:LI:164:MET:H	1:LI:197:ASP:HB2	1.60	0.66
2:LJ:435:VAL:HG12	22:0z:147:THR:CG2	2.20	0.66
1:LM:236:VAL:HG13	1:LM:237:THR:HG23	1.76	0.66
1:LO:371:ASN:OD1	1:LO:372:THR:N	2.27	0.66
2:NA:316:CYS:HB3	2:NA:378:ILE:HG23	1.76	0.66
1:NJ:257:LEU:HD11	1:NJ:314:SER:HB3	1.76	0.66
1:NL:67:ASP:O	1:NL:92:PHE:HA	1.95	0.66
1:OB:322:SER:OG	1:OB:325:GLU:OE1	2.11	0.66
2:OM:9:ILE:HG13	2:OM:139:HIS:HB3	1.75	0.66
1:QA:356:ILE:CG2	28:1b:37:PHE:HE1	2.08	0.66
1:QC:16:ILE:HD12	1:QC:229:VAL:HG11	1.77	0.66
2:QJ:87:PHE:O	22:0z:253:GLN:NE2	2.28	0.66
1:RE:8:GLN:HE21	1:RE:65:LEU:HG	1.58	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:RF:318:MET:HA	2:RF:318:MET:HE3	1.77	0.66
2:RL:395:PHE:CD2	2:RL:422:ARG:HD3	2.30	0.66
2:SA:75:VAL:HG21	2:SA:94:SER:HB2	1.77	0.66
2:SC:265:ILE:HG22	2:SC:380:ASN:HD21	1.60	0.66
1:TF:202:ILE:HD11	1:TF:268:MET:HE2	1.77	0.66
1:TF:207:LEU:HB3	1:TF:225:LEU:HD22	1.75	0.66
2:TK:240:ALA:HA	2:TK:243:ARG:HB2	1.77	0.66
2:UE:172:TYR:CD2	2:UE:203:MET:HG3	2.29	0.66
1:VH:235:GLY:HA3	1:VH:366:THR:HG21	1.77	0.66
2:VI:11:GLN:HG3	2:VI:74:VAL:HG11	1.78	0.66
1:WH:198:GLU:HA	1:WH:264:HIS:HB2	1.77	0.66
24:1I:344:ARG:HH22	24:1I:373:PHE:HD2	1.43	0.66
26:1Q:72:ILE:HD11	26:1Q:178:PHE:HE1	1.58	0.66
28:1g:251:HIS:ND1	28:1h:18:CYS:SG	2.68	0.66
44:2v:318:GLN:HE22	44:2v:407:ASN:N	1.93	0.66
44:2v:326:ASN:HB3	44:2v:372:LEU:HD12	1.76	0.66
1:AF:45:GLU:HG2	1:AF:46:ARG:HG2	1.76	0.66
2:AI:298:PRO:HG3	2:AI:308:ARG:HH12	1.60	0.66
1:AJ:247:ASN:ND2	2:AK:73:THR:OG1	2.28	0.66
1:B:46:ARG:HH22	2:BA:73:THR:HA	1.61	0.66
2:BG:50:ASN:O	2:BG:64:ARG:NH1	2.28	0.66
2:BK:250:VAL:HA	2:BK:254:GLU:HG2	1.77	0.66
2:CH:119:LEU:HD11	2:CH:156:ARG:HB3	1.77	0.66
1:CI:375:GLN:OE1	1:CI:379:ARG:NH2	2.28	0.66
1:CK:34:GLY:HA3	1:CK:58:ARG:HG3	1.77	0.66
1:DI:201:CYS:SG	1:DI:301:GLN:NE2	2.68	0.66
1:EJ:347:ASN:ND2	2:EK:178:SER:OG	2.23	0.66
1:GF:184:ASN:OD1	1:GF:398:TYR:OH	2.13	0.66
2:GG:288:VAL:HB	2:GG:327:ASP:HB3	1.76	0.66
2:HE:3:GLU:HA	2:HE:51:THR:HA	1.78	0.66
1:I:323:THR:HG21	2:IA:224:TYR:CE2	2.31	0.66
1:JA:416:ASN:OD1	60:3r:48:ILE:HA	1.87	0.66
2:JN:252:LEU:HB3	2:JN:256:GLN:HE22	1.59	0.66
2:LD:55:GLU:OE2	23:1A:179:GLN:NE2	2.21	0.66
1:LK:39:ASP:CG	45:2z:78:LYS:CD	2.68	0.66
2:LL:98:ASP:OD1	2:LL:99:ALA:N	2.28	0.66
2:MA:213:THR:HA	2:MA:217:LEU:HB2	1.75	0.66
1:MH:289:LEU:HD12	1:MH:365:VAL:HG12	1.75	0.66
1:NB:144:GLY:N	69:NB:500:GDP:O2B	2.27	0.66
1:NF:139:LEU:HG	1:NF:168:SER:HB2	1.77	0.66
2:NM:71:GLU:HB3	2:NM:98:ASP:HB2	1.75	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OE:33:ASP:HA	2:OE:85:GLN:HB2	1.78	0.66
1:OL:304:ASP:HB3	1:OL:306:ARG:HH11	1.59	0.66
2:PA:119:LEU:HD22	2:PA:156:ARG:HB3	1.77	0.66
1:PD:91:ILE:HG13	1:PD:112:LEU:HD11	1.76	0.66
1:PD:268:MET:HE1	1:PD:368:ILE:HG23	1.77	0.66
2:Q:174:SER:OG	2:Q:177:VAL:O	2.13	0.66
2:QD:419:SER:O	2:QD:423:GLU:HG3	1.95	0.66
2:QH:224:TYR:HA	2:QH:227:VAL:HG22	1.77	0.66
2:QJ:27:GLU:OE1	2:QJ:243:ARG:NH2	2.28	0.66
2:TC:71:GLU:HB3	2:TC:98:ASP:HB3	1.76	0.66
2:TC:169:TYR:HA	2:TC:202:THR:HB	1.77	0.66
1:UH:257:LEU:HD13	1:UH:368:ILE:HG21	1.77	0.66
1:VB:328:GLU:OE2	1:VB:332:ASN:ND2	2.27	0.66
2:VK:199:ASP:HB3	2:VK:256:GLN:HE22	1.59	0.66
1:VL:83:GLN:O	1:WL:281:TYR:OH	2.12	0.66
2:WA:269:LEU:HD21	2:WA:384:ILE:HG22	1.77	0.66
2:WG:311:LYS:HZ2	2:WG:342:GLN:HB3	1.60	0.66
3:XC:101:ARG:HB3	3:XC:144:TYR:HE1	1.58	0.66
9:0N:81:VAL:HG12	9:0N:110:LYS:HG3	1.76	0.66
47:3D:318:VAL:O	47:3D:340:ARG:NH1	2.28	0.66
60:3t:35:ASP:OD1	60:3t:37:ARG:NH1	2.28	0.66
28:4V:251:HIS:CE1	28:4W:30:CYS:HG	2.14	0.66
2:AG:51:THR:HG21	2:AG:243:ARG:HG2	1.78	0.66
1:AH:208:TYR:CD1	1:AH:225:LEU:HD21	2.31	0.66
1:BB:326:VAL:HG21	1:BB:353:ILE:HD11	1.78	0.66
2:BC:248:LEU:HB2	2:BC:355:ILE:H	1.60	0.66
1:DC:272:PRO:HD3	1:DC:364:SER:HA	1.75	0.66
1:DK:362:LYS:NZ	24:1K:684:ALA:O	2.27	0.66
2:EG:174:SER:OG	2:EG:177:VAL:O	2.12	0.66
1:FB:65:LEU:HB3	1:FB:73:MET:HE1	1.76	0.66
1:FJ:324:LYS:HE2	2:FK:222:PRO:HD2	1.78	0.66
2:FK:215:ARG:NH2	2:FK:299:ALA:O	2.27	0.66
1:IJ:320:ARG:NH1	1:IJ:355:ASP:OD2	2.28	0.66
2:IM:174:SER:OG	2:IM:177:VAL:O	2.14	0.66
2:IM:247:ALA:HB3	2:IM:355:ILE:HB	1.76	0.66
2:KD:1:MET:HG3	2:KD:131:GLY:HA3	1.76	0.66
2:KH:96:LYS:HG2	35:2O:47:LEU:HD13	1.76	0.66
1:KK:62:ARG:NH1	1:KK:127:CYS:SG	2.68	0.66
2:KL:316:CYS:HA	2:KL:352:LYS:HB2	1.77	0.66
2:LB:163:LYS:NZ	33:2F:209:CYS:O	2.28	0.66
2:LJ:155:GLU:O	33:2H:235:ASN:ND2	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LK:258:VAL:HB	2:LL:407:TRP:HH2	1.59	0.66
2:MM:132:LEU:O	2:MM:164:LYS:NZ	2.25	0.66
1:N:236:VAL:HG13	1:N:237:THR:HG23	1.77	0.66
2:PG:56:THR:HG23	2:PG:58:ALA:H	1.59	0.66
2:PK:75:VAL:HG21	2:PK:94:SER:HB2	1.77	0.66
1:PL:347:ASN:HD22	2:PM:178:SER:HB2	1.60	0.66
2:PM:11:GLN:NE2	2:PM:15:GLN:OE1	2.29	0.66
2:QH:326:LYS:HD3	1:QI:220:PRO:HD2	1.77	0.66
2:RB:211:ASP:O	2:RB:215:ARG:HG2	1.95	0.66
2:RD:238:LEU:HA	2:RD:318:MET:HG3	1.77	0.66
2:SG:89:PRO:HG2	2:TG:280:LYS:HG2	1.78	0.66
1:T:248:SER:HA	1:T:252:LYS:HD2	1.75	0.66
1:TB:68:LEU:HD12	1:TB:97:ALA:HB2	1.75	0.66
2:TC:27:GLU:OE1	2:TC:243:ARG:NH2	2.28	0.66
1:TF:131:GLN:HE22	1:TF:250:LEU:HB2	1.59	0.66
2:TG:71:GLU:HB3	2:TG:98:ASP:HB3	1.77	0.66
2:TG:372:GLN:NE2	21:0w:220:GLU:OE2	2.28	0.66
1:TL:333:VAL:CG2	61:3x:130:THR:HG21	2.25	0.66
2:UC:126:ALA:HB1	62:4B:168:TYR:HE1	1.56	0.66
1:UF:207:LEU:HB3	1:UF:225:LEU:HD22	1.77	0.66
1:VJ:291:GLN:NE2	62:4B:355:ILE:O	2.28	0.66
2:WE:209:ILE:HG12	2:WE:302:LEU:HD22	1.76	0.66
6:0:13:ARG:NH2	6:0:15:CYS:SG	2.67	0.66
24:1K:342:ASP:O	24:1K:347:ASN:ND2	2.29	0.66
25:1O:62:CYS:SG	25:1O:64:ASN:O	2.53	0.66
2:AC:67:PHE:HB2	2:AC:92:LEU:HD12	1.78	0.66
2:AK:67:PHE:HB2	2:AK:92:LEU:HD12	1.78	0.66
1:AL:347:ASN:ND2	2:AM:178:SER:O	2.28	0.66
2:AM:88:ASN:HB3	2:AM:91:GLN:HE21	1.60	0.66
2:BC:18:ASN:HD21	2:BC:78:VAL:HG22	1.60	0.66
1:BJ:224:ASP:OD2	24:1I:213:ARG:NH1	2.22	0.66
2:BK:241:SER:HB2	2:BK:250:VAL:H	1.61	0.66
1:CK:385:PHE:HE2	1:CK:412:GLU:HB2	1.61	0.66
1:DG:350:LYS:NZ	1:DG:352:SER:OG	2.26	0.66
1:DM:67:ASP:HA	1:DM:143:THR:HG21	1.77	0.66
2:FC:265:ILE:HG21	2:FC:313:MET:HE1	1.77	0.66
1:GL:174:ARG:NH1	1:GL:205:GLU:OE2	2.28	0.66
2:IG:203:MET:HG3	2:IG:269:LEU:HD23	1.76	0.66
2:JH:335:ILE:HG23	2:JH:341:ILE:HD11	1.77	0.66
1:LI:63:ALA:O	1:LI:89:ASN:ND2	2.27	0.66
1:LI:88:ASP:OD2	1:MH:282:ARG:NH2	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LM:323:THR:HA	1:LM:326:VAL:HG12	1.78	0.66
1:LO:99:ASN:HD21	1:LO:178:THR:HG22	1.60	0.66
2:NK:204:LEU:HD22	2:NK:231:ILE:HD12	1.76	0.66
1:OD:263:LEU:HD11	1:OD:425:TYR:HD2	1.60	0.66
1:OF:65:LEU:HB3	1:OF:73:MET:HE1	1.78	0.66
2:OK:174:SER:OG	2:OK:177:VAL:O	2.13	0.66
1:QA:326:VAL:HG11	1:QA:353:ILE:HD11	1.78	0.66
2:QF:119:LEU:HD21	2:QF:156:ARG:HB3	1.76	0.66
1:QG:334:GLN:HE22	1:QG:347:ASN:HA	1.60	0.66
2:QH:108:TYR:O	2:QH:112:LYS:NZ	2.20	0.66
1:TJ:86:ARG:HG2	1:UJ:281:TYR:HB3	1.77	0.66
2:UA:209:ILE:HD13	2:UA:227:VAL:HG13	1.78	0.66
1:UH:207:LEU:HB3	1:UH:225:LEU:HD22	1.77	0.66
2:VA:211:ASP:OD2	2:VA:304:LYS:NZ	2.23	0.66
1:VL:68:LEU:HG	1:VL:147:MET:HE1	1.75	0.66
2:VM:316:CYS:HB2	2:VM:378:ILE:HB	1.77	0.66
1:W:247:ASN:H	2:WA:11:GLN:HE22	1.43	0.66
1:WJ:322:SER:OG	1:WJ:325:GLU:OE1	2.13	0.66
4:XO:86:LYS:HZ1	33:2G:55:PHE:N	1.94	0.66
13:0Z:85:THR:OG1	13:0Z:87:GLU:OE1	2.13	0.66
32:2C:30:ARG:NH1	32:2C:89:ILE:O	2.28	0.66
49:3Q:528:LEU:HD22	49:3Q:532:LEU:HD13	1.78	0.66
65:5G:181:LYS:HZ1	66:5K:156:ARG:HH22	1.44	0.66
2:BI:239:THR:HG23	2:BI:243:ARG:HE	1.60	0.66
1:BL:322:SER:OG	2:BM:222:PRO:O	2.14	0.66
1:CA:236:VAL:HG13	1:CA:237:THR:HG23	1.76	0.66
2:CJ:217:LEU:HD21	2:CJ:275:VAL:HG22	1.75	0.66
2:DD:251:ASP:H	2:DD:254:GLU:HB2	1.57	0.66
2:DL:70:LEU:HD12	2:DL:99:ALA:HB2	1.78	0.66
1:EL:2:ARG:HH12	1:EL:240:LEU:HD22	1.61	0.66
1:EL:66:MET:HE2	1:EL:116:VAL:HG21	1.76	0.66
1:FD:167:PHE:HE2	1:FD:233:MET:HG2	1.60	0.66
1:FJ:63:ALA:O	1:FJ:89:ASN:ND2	2.27	0.66
2:GE:309:HIS:CE1	59:4O:216:THR:HG1	2.13	0.66
1:HF:122:LYS:NZ	1:IF:291:GLN:OE1	2.24	0.66
1:HF:323:THR:HA	1:HF:326:VAL:HG12	1.77	0.66
1:HL:87:PRO:HD3	1:IL:281:TYR:HD2	1.61	0.66
1:IH:207:LEU:HB3	1:IH:225:LEU:HD22	1.78	0.66
1:IL:49:VAL:HG21	1:IL:241:ARG:HG2	1.77	0.66
1:JA:416:ASN:HD21	60:3r:47:PRO:C	2.03	0.66
1:JM:164:MET:HB3	1:JM:197:ASP:H	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JM:390:ARG:NH2	60:3t:38:THR:OG1	2.28	0.66
1:KE:293:MET:HE1	1:KE:330:MET:HE1	1.76	0.66
1:LI:9:ALA:HA	1:LI:66:MET:HB2	1.77	0.66
2:ME:234:VAL:HG21	2:ME:302:LEU:HD11	1.78	0.66
1:MH:165:MET:HE3	1:MH:167:PHE:HE1	1.61	0.66
1:ML:207:LEU:HB3	1:ML:225:LEU:HD22	1.77	0.66
1:ND:56:GLY:HA2	41:2o:386:ILE:HD13	1.76	0.66
2:NE:271:SER:HB2	2:NE:301:MET:HA	1.78	0.66
1:NJ:207:LEU:HB3	1:NJ:225:LEU:HD22	1.77	0.66
2:OI:229:ARG:NH1	2:OI:364:PRO:O	2.25	0.66
1:PL:208:TYR:CE1	1:PL:225:LEU:HD11	2.29	0.66
2:QD:172:TYR:HH	2:QD:267:PHE:HE2	1.43	0.66
2:QH:364:PRO:HB2	28:1b:152:PRO:HB2	1.78	0.66
2:R:240:ALA:O	2:R:356:ASN:ND2	2.29	0.66
1:RA:251:ARG:NH2	2:RB:97:GLU:OE2	2.28	0.66
1:RI:172:SER:OG	1:RI:203:ASP:OD1	2.14	0.66
2:SK:271:SER:HA	2:SK:302:LEU:HD13	1.77	0.66
2:TA:172:TYR:CD2	2:TA:203:MET:HG3	2.31	0.66
2:TG:438:GLU:OE1	57:3g:177:ARG:NH2	2.28	0.66
2:VG:70:LEU:HB2	2:VG:98:ASP:HA	1.77	0.66
1:VL:272:PRO:O	53:3X:52:TYR:OH	2.14	0.66
2:WE:26:LEU:HD13	2:WE:363:VAL:HG12	1.77	0.66
1:WF:253:LEU:HD11	1:WF:316:LEU:HD11	1.78	0.66
1:WL:99:ASN:HD21	1:WL:178:THR:HG23	1.61	0.66
3:X:57:CYS:HB3	3:X:158:ALA:HB2	1.78	0.66
12:0W:128:MET:HG2	12:0W:151:VAL:HG12	1.76	0.66
20:0t:6:LEU:HD22	20:0t:10:TRP:CD2	2.31	0.66
26:1Q:28:THR:HG22	26:1Q:30:GLY:H	1.61	0.66
33:2H:203:ASN:OD1	33:2H:204:PHE:N	2.28	0.66
41:2e:262:ARG:HE	41:2e:266:LEU:HD21	1.60	0.66
57:3i:68:ARG:NH1	57:3i:69:MET:HG3	2.09	0.66
2:AG:430:LYS:NZ	3:XC:102:ARG:HD3	2.11	0.66
2:AK:328:VAL:O	2:AK:332:ILE:HG12	1.96	0.66
1:DI:268:MET:HE1	1:DI:368:ILE:HG23	1.75	0.66
1:EB:267:MET:HE1	1:EB:305:PRO:HG3	1.78	0.66
2:FE:26:LEU:HD21	2:FE:364:PRO:HD3	1.77	0.66
2:J:336:LYS:NZ	2:J:348:PRO:O	2.28	0.66
1:JK:375:GLN:NE2	1:JK:419:VAL:O	2.28	0.66
1:JM:420:SER:OG	60:3t:48:ILE:O	2.14	0.66
1:KC:152:ILE:HG23	1:KC:164:MET:HE2	1.78	0.66
1:KC:159:TYR:HB3	1:KC:162:ARG:HG3	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KM:122:LYS:NZ	1:LM:291:GLN:O	2.27	0.66
1:KM:159:TYR:HB3	1:KM:162:ARG:HG3	1.78	0.66
1:LO:362:LYS:NZ	23:1F:330:TRP:HB3	2.10	0.66
1:OH:330:MET:HG2	1:OH:349:ILE:HG21	1.77	0.66
2:OI:274:PRO:HG2	2:OI:371:VAL:HG11	1.75	0.66
1:OL:346:PRO:HG2	2:OM:394:LYS:HZ3	1.60	0.66
1:PB:324:LYS:NZ	2:PC:222:PRO:O	2.27	0.66
2:PK:237:SER:HA	2:PK:320:ARG:HD2	1.78	0.66
1:PL:330:MET:HE2	1:PL:349:ILE:HG21	1.77	0.66
2:QB:339:ARG:HD3	2:QB:339:ARG:H	1.60	0.66
1:QC:2:ARG:N	1:QC:129:CYS:SG	2.66	0.66
2:QF:241:SER:O	2:QF:249:ASN:ND2	2.27	0.66
2:QH:265:ILE:HG22	2:QH:380:ASN:HD21	1.60	0.66
1:SH:45:GLU:HG2	1:SH:46:ARG:HG2	1.75	0.66
2:TI:295:VAL:HG21	2:TI:375:VAL:HG13	1.77	0.66
1:TJ:362:LYS:HE2	21:0x:495:PHE:HZ	1.59	0.66
1:UD:161:ASP:O	1:UD:251:ARG:NH2	2.28	0.66
1:UH:347:ASN:ND2	2:UI:178:SER:O	2.29	0.66
2:WA:108:TYR:O	2:WA:112:LYS:NZ	2.27	0.66
2:WA:180:ALA:HB3	2:WA:183:GLU:HB2	1.76	0.66
7:0C:399:LYS:HD3	17:0m:50:LEU:HD13	1.77	0.66
9:0N:489:SER:HB2	9:0N:503:ILE:HD11	1.78	0.66
15:0f:48:THR:HG23	15:0f:51:SER:H	1.61	0.66
18:0p:221:ARG:NH1	18:0p:225:GLU:OE2	2.28	0.66
27:1T:760:PRO:HG3	27:1T:774:THR:HA	1.78	0.66
37:2S:166:LYS:NZ	54:3Z:353:GLY:O	2.28	0.66
49:3Q:372:MET:O	49:3Q:376:ASP:HB2	1.94	0.66
55:3b:51:PRO:HB2	59:4a:218:PRO:HB3	1.76	0.66
1:AN:207:LEU:HB3	1:AN:225:LEU:HD22	1.78	0.66
1:BF:73:MET:HE3	1:BF:92:PHE:HB3	1.78	0.66
1:BH:68:LEU:HD12	1:BH:97:ALA:HB2	1.78	0.66
2:CB:41:CYS:HB3	27:1S:284:ARG:HH11	1.59	0.66
1:CK:235:GLY:HA3	1:CK:366:THR:HG21	1.76	0.66
2:EG:332:ILE:HG23	2:EG:351:PHE:HD2	1.61	0.66
1:HF:207:LEU:HB3	1:HF:225:LEU:HD22	1.77	0.66
1:HH:310:TYR:O	1:HH:348:ASN:ND2	2.29	0.66
1:I:198:GLU:HA	1:I:264:HIS:HB2	1.77	0.66
1:IJ:172:SER:OG	1:IJ:174:ARG:NH1	2.28	0.66
1:KG:273:LEU:H	1:KG:292:GLN:HE22	1.43	0.66
2:KH:50:ASN:O	2:KH:64:ARG:NH1	2.29	0.66
1:KK:217:LEU:HD23	1:KK:220:PRO:HG3	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KN:27:GLU:OE1	2:KN:243:ARG:NH2	2.28	0.66
2:LF:301:MET:HG3	2:LF:303:THR:H	1.60	0.66
2:LH:212:LEU:HD21	2:LH:275:VAL:HG11	1.77	0.66
2:LN:423:GLU:OE1	6:0A:248:ALA:N	2.27	0.66
2:MG:2:ARG:NH1	2:MG:242:LEU:O	2.28	0.66
1:MH:48:ASN:O	1:MH:62:ARG:NH1	2.29	0.66
1:NB:412:GLU:OE2	1:NB:416:ASN:ND2	2.29	0.66
1:NJ:131:GLN:HA	1:NJ:162:ARG:HH21	1.59	0.66
1:PL:127:CYS:SG	1:PL:128:ASP:N	2.68	0.66
1:QI:237:THR:HG22	1:QI:250:LEU:HD21	1.77	0.66
1:RA:257:LEU:HD11	1:RA:314:SER:HB2	1.76	0.66
1:T:346:PRO:HG3	2:TA:394:LYS:HG2	1.77	0.66
2:TC:260:VAL:HG13	1:TD:397:TRP:HE1	1.60	0.66
2:TE:182:VAL:HG13	2:TE:186:ASN:HD21	1.60	0.66
1:TJ:139:LEU:HD12	1:TJ:170:ILE:HG22	1.78	0.66
1:TL:170:ILE:HG21	1:TL:301:GLN:HE21	1.60	0.66
2:UA:419:SER:O	2:UA:423:GLU:HG3	1.96	0.66
1:VF:74:ASP:OD1	1:VF:77:ARG:NH2	2.28	0.66
2:VG:259:LEU:O	2:VG:380:ASN:ND2	2.29	0.66
2:VK:67:PHE:HB2	2:VK:92:LEU:HD12	1.77	0.66
2:WM:259:LEU:HD21	2:WM:268:VAL:HG11	1.78	0.66
49:3Q:400:ARG:HE	49:3Q:486:ASP:HA	1.61	0.66
65:5H:178:LYS:NZ	66:5L:270:ILE:O	2.28	0.66
2:AK:332:ILE:O	2:AK:336:LYS:HG2	1.96	0.66
1:BH:42:LEU:HD11	1:BH:356:ILE:HG13	1.78	0.66
1:CE:207:LEU:HB3	1:CE:225:LEU:HD11	1.77	0.66
2:CF:216:SER:OG	2:CF:275:VAL:O	2.11	0.66
1:CK:226:ASN:ND2	69:CK:500:GDP:N7	2.40	0.66
2:DB:377:MET:HE2	2:DB:379:ALA:HB2	1.76	0.66
1:DC:273:LEU:O	1:DC:292:GLN:NE2	2.29	0.66
2:EA:315:CYS:HB3	2:EA:377:MET:HE1	1.77	0.66
1:ED:91:ILE:HD11	1:ED:119:VAL:HG11	1.77	0.66
1:FH:272:PRO:HD3	1:FH:364:SER:HA	1.77	0.66
2:FI:88:ASN:OD1	2:FI:89:PRO:HD2	1.95	0.66
1:G:336:LYS:NZ	59:4O:89:ARG:HG3	2.11	0.66
2:GC:319:TYR:HB3	2:GC:323:VAL:HG21	1.76	0.66
1:H:139:LEU:HD12	1:H:170:ILE:HG13	1.78	0.66
1:HD:66:MET:HE3	1:HD:66:MET:HA	1.77	0.66
1:HH:46:ARG:NH2	2:HI:76:ASP:OD2	2.29	0.66
1:JA:67:ASP:HA	1:JA:143:THR:HG21	1.77	0.66
1:JG:236:VAL:HG13	1:JG:237:THR:HG23	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JH:259:LEU:HD21	2:JH:268:VAL:HG11	1.78	0.66
1:KA:27:GLU:OE2	1:KA:318:ARG:NH2	2.17	0.66
1:LM:189:VAL:HG13	1:LM:415:MET:HE1	1.77	0.66
2:LN:207:GLU:HB3	2:LN:304:LYS:HG3	1.78	0.66
1:ML:289:LEU:HD12	1:ML:363:MET:HE2	1.78	0.66
2:OA:36:MET:HE2	2:OA:61:HIS:HE1	1.61	0.66
2:OG:225:THR:O	2:OG:229:ARG:HG2	1.96	0.66
1:OL:276:ARG:NH2	41:2o:168:LEU:O	2.26	0.66
1:OL:423:GLN:HA	1:OL:426:GLN:HG3	1.78	0.66
2:OM:282:TYR:HB2	41:2p:469:LYS:NZ	2.10	0.66
1:PJ:229:VAL:O	1:PJ:233:MET:HG3	1.96	0.66
1:QI:2:ARG:HH11	1:QI:240:LEU:HD22	1.61	0.66
1:RA:200:MET:HG2	1:RA:266:PHE:HB2	1.77	0.66
1:TD:247:ASN:ND2	2:TE:73:THR:OG1	2.28	0.66
2:TE:251:ASP:H	2:TE:254:GLU:HB2	1.61	0.66
2:TK:6:CYS:O	2:TK:65:CYS:HA	1.96	0.66
1:TL:52:ASP:HB2	1:TL:62:ARG:HH11	1.61	0.66
2:UC:326:LYS:NZ	1:UD:220:PRO:O	2.29	0.66
2:VA:301:MET:HE1	2:VA:307:PRO:HG3	1.77	0.66
1:VJ:313:ALA:HB3	1:VJ:349:ILE:HD13	1.76	0.66
1:VJ:342:ILE:HG22	1:VJ:345:ILE:H	1.61	0.66
2:WA:215:ARG:HH12	2:WA:299:ALA:HB1	1.61	0.66
2:WM:39:ASP:HB2	9:0O:231:ALA:HB2	1.76	0.66
3:XD:4:ASN:CG	4:XQ:32:GLY:CA	2.52	0.66
8:0G:339:GLU:OE2	8:0G:340:ARG:NH1	2.29	0.66
9:0L:228:LEU:HD23	9:0L:232:ASN:HA	1.78	0.66
16:0k:317:GLU:O	16:0k:321:THR:HG23	1.96	0.66
19:0r:111:ALA:O	19:0r:115:HIS:ND1	2.29	0.66
24:1J:665:LEU:HD13	24:1J:704:LEU:HD22	1.77	0.66
26:1Q:528:GLN:HG2	26:1Q:587:ARG:HH12	1.61	0.66
27:1T:815:LEU:HD12	27:1T:816:PRO:HD2	1.78	0.66
37:2S:180:ASN:CG	54:3Z:341:THR:HG1	2.03	0.66
44:2w:106:ILE:HG22	44:2w:108:ASP:H	1.60	0.66
64:5C:157:LEU:HG	64:5C:161:GLN:HE22	1.60	0.66
2:AE:195:LEU:HD22	2:AE:264:ARG:HE	1.58	0.66
1:AH:63:ALA:O	1:AH:89:ASN:ND2	2.28	0.66
1:BJ:91:ILE:HG21	1:BJ:116:VAL:HG22	1.77	0.66
2:CD:213:THR:HA	2:CD:217:LEU:HD23	1.78	0.66
2:CD:219:ILE:HB	16:0k:421:PHE:HE1	1.60	0.66
1:DA:67:ASP:HA	1:DA:143:THR:HG21	1.76	0.66
1:EL:19:LYS:HG3	1:EL:226:ASN:HB2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FG:215:ARG:HH22	63:4I:257:THR:HG22	1.61	0.66
1:G:66:MET:HG2	1:G:147:MET:HE3	1.78	0.66
1:HB:58:ARG:NH2	1:HB:83:GLN:O	2.28	0.66
1:HD:236:VAL:HG13	1:HD:237:THR:HG23	1.78	0.66
1:HL:86:ARG:NH1	1:IL:281:TYR:O	2.29	0.66
2:HM:180:ALA:HB3	2:HM:183:GLU:HG3	1.78	0.66
2:IA:213:THR:HG23	2:IA:217:LEU:HD12	1.77	0.66
2:IE:11:GLN:HG3	2:IE:74:VAL:HG11	1.76	0.66
2:J:188:VAL:HG22	2:J:421:ALA:HB1	1.78	0.66
2:JD:98:ASP:OD1	2:JD:99:ALA:N	2.27	0.66
2:JJ:180:ALA:HB3	2:JJ:183:GLU:HB2	1.77	0.66
2:JL:239:THR:OG1	2:JL:243:ARG:NH1	2.29	0.66
1:JM:284:LEU:HD21	1:JM:363:MET:HB3	1.78	0.66
2:KD:319:TYR:HB3	2:KD:323:VAL:HG21	1.77	0.66
2:LJ:264:ARG:NH1	22:0z:144:LYS:HB2	2.06	0.66
2:LN:203:MET:HE3	2:LN:384:ILE:HD11	1.78	0.66
1:LO:295:ASP:OD2	1:LO:297:LYS:NZ	2.28	0.66
2:MA:71:GLU:HB3	2:MA:98:ASP:HB3	1.77	0.66
2:MG:51:THR:HG21	2:MG:243:ARG:HG2	1.77	0.66
1:MJ:322:SER:HB3	1:MJ:325:GLU:HG2	1.78	0.66
1:MN:416:ASN:OD1	33:2I:129:ARG:NH2	2.28	0.66
1:ND:87:PRO:HD3	1:OD:281:TYR:CD2	2.31	0.66
2:NK:262:TYR:HB2	2:NK:265:ILE:HG12	1.78	0.66
1:PB:63:ALA:O	1:PB:89:ASN:ND2	2.29	0.66
1:RC:163:ILE:HD11	1:RC:251:ARG:HG3	1.77	0.66
1:RK:135:LEU:HD11	1:RK:151:LEU:HD23	1.77	0.66
2:RL:76:ASP:OD1	2:RL:79:ARG:NH2	2.28	0.66
1:SD:322:SER:OG	1:SD:325:GLU:OE1	2.13	0.66
2:SK:123:ARG:CZ	61:3x:109:GLU:HG3	2.25	0.66
1:T:23:VAL:O	1:T:27:GLU:HG3	1.95	0.66
1:TD:313:ALA:HB3	1:TD:349:ILE:HG12	1.77	0.66
2:TI:258:ASN:HB2	1:TJ:179:VAL:HB	1.76	0.66
2:UI:315:CYS:HB3	2:UI:377:MET:HE2	1.77	0.66
1:UJ:292:GLN:HG2	1:UJ:298:ASN:HD22	1.61	0.66
2:VI:175:PRO:O	2:VI:390:ARG:NH2	2.28	0.66
1:WL:48:ASN:O	1:WL:62:ARG:NH1	2.29	0.66
3:XB:85:LYS:O	3:XB:107:ASN:ND2	2.28	0.66
3:XD:85:LYS:HB3	3:XD:159:ASN:HD21	1.60	0.66
14:0d:36:LYS:O	14:0d:40:LYS:HB2	1.95	0.66
21:0w:287:THR:HG22	21:0w:290:GLN:HG3	1.77	0.66
41:2c:303:ARG:HH12	41:2c:307:GLU:HB2	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:2e:307:GLU:HA	41:2e:310:LYS:HE3	1.78	0.66
41:2l:300:GLU:OE2	41:2l:303:ARG:NH2	2.29	0.66
49:3P:436:PRO:HD2	49:3P:492:LEU:HD12	1.78	0.66
49:3Q:436:PRO:HD2	49:3Q:492:LEU:HD12	1.77	0.66
1:AB:2:ARG:N	1:AB:129:CYS:O	2.29	0.66
1:DE:159:TYR:HB3	1:DE:162:ARG:HG3	1.76	0.66
2:DF:204:LEU:HD22	2:DF:231:ILE:HD12	1.78	0.66
1:IB:43:GLN:HE21	38:2U:189:LYS:HE2	1.61	0.66
1:IF:324:LYS:HE3	2:IG:221:ARG:HA	1.77	0.66
2:II:213:THR:HG23	2:II:217:LEU:HD23	1.78	0.66
1:JI:392:LYS:NZ	60:3s:85:SER:O	2.29	0.66
1:JK:156:ARG:NH2	1:JK:162:ARG:O	2.28	0.66
2:LJ:427:ALA:CB	22:0z:144:LYS:HE3	2.25	0.66
2:LL:393:HIS:CE1	31:1s:47:CYS:SG	2.71	0.66
1:MF:22:GLU:HB2	26:1Q:14:LYS:HZ3	1.61	0.66
1:ML:221:THR:HG22	1:ML:222:PHE:H	1.61	0.66
2:NC:174:SER:OG	2:NC:177:VAL:O	2.13	0.66
2:NC:295:VAL:HG21	2:NC:375:VAL:HG13	1.76	0.66
2:OC:265:ILE:HG22	2:OC:380:ASN:HD21	1.60	0.66
2:OM:362:VAL:HG21	41:2p:472:MET:HE1	1.78	0.66
2:PM:209:ILE:HD13	2:PM:227:VAL:HG13	1.77	0.66
2:RH:324:VAL:HG21	1:RI:219:THR:HG23	1.77	0.66
1:SH:246:LEU:HD11	71:SI:501:GTP:H5”	1.78	0.66
2:UA:212:LEU:HD11	2:UA:275:VAL:HG21	1.77	0.66
1:UB:159:TYR:HB3	1:UB:162:ARG:HG3	1.77	0.66
1:UD:392:LYS:NZ	1:UD:405:GLU:OE1	2.28	0.66
1:WH:245:GLN:NE2	2:WI:223:SER:OG	2.16	0.66
3:XB:48:GLU:OE1	3:XB:161:ARG:NE	2.17	0.66
3:XD:37:VAL:O	3:XD:45:SER:HA	1.96	0.66
4:XM:285:GLU:OE1	4:XM:303:TYR:OH	2.14	0.66
9:0L:161:PHE:CE2	9:0L:167:LYS:HE2	2.31	0.66
9:0O:224:ILE:HD12	9:0O:234:PHE:HE2	1.59	0.66
19:0r:237:TYR:CD1	19:0r:241:MET:HB3	2.31	0.66
24:1K:425:VAL:HG23	24:1K:512:SER:HB2	1.78	0.66
28:1b:20:CYS:SG	72:1b:301:ZN:ZN	1.83	0.66
33:2G:212:ARG:HA	33:2G:258:ASN:HD22	1.60	0.66
67:5P:52:PHE:HZ	67:5P:67:ILE:HG13	1.60	0.66
2:AI:270:THR:HG23	2:AI:302:LEU:HB2	1.77	0.65
2:CJ:215:ARG:NH2	2:CJ:299:ALA:O	2.28	0.65
1:CM:344:TRP:HB3	1:CM:430:VAL:HG12	1.78	0.65
1:DC:257:LEU:HD11	1:DC:314:SER:HB3	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EA:209:ILE:HG21	2:EA:227:VAL:HG13	1.77	0.65
1:EF:320:ARG:NH1	1:EF:321:MET:O	2.29	0.65
2:FE:5:ILE:HD12	2:FE:125:LEU:HD23	1.77	0.65
1:FF:362:LYS:HD2	1:FF:363:MET:HG3	1.78	0.65
1:G:198:GLU:HA	1:G:264:HIS:HB2	1.77	0.65
1:H:337:ASN:HA	64:5B:91:LYS:HE2	1.77	0.65
1:HJ:272:PRO:HD2	1:HJ:361:LEU:HD21	1.77	0.65
1:JI:211:CYS:HB3	1:JI:220:PRO:HG2	1.77	0.65
2:JL:213:THR:HA	2:JL:217:LEU:HD23	1.77	0.65
1:KE:234:SER:O	1:KE:241:ARG:NH2	2.29	0.65
2:KL:67:PHE:HB2	2:KL:92:LEU:HD12	1.77	0.65
1:LC:165:MET:HE1	1:LC:250:LEU:HD22	1.77	0.65
2:LJ:264:ARG:NH1	22:0z:144:LYS:CB	2.53	0.65
1:LO:2:ARG:N	1:LO:129:CYS:O	2.28	0.65
2:MA:174:SER:OG	2:MA:177:VAL:O	2.13	0.65
1:NJ:253:LEU:HD21	1:NJ:316:LEU:HD21	1.78	0.65
2:PC:215:ARG:NH2	2:PC:299:ALA:O	2.29	0.65
2:PK:257:THR:HG1	1:PL:397:TRP:CG	2.14	0.65
1:QA:156:ARG:NH1	1:QA:160:PRO:O	2.29	0.65
2:QJ:326:LYS:HE3	1:QK:225:LEU:HD21	1.78	0.65
1:RE:322:SER:OG	2:RF:222:PRO:O	2.14	0.65
1:RG:347:ASN:HD22	2:RH:178:SER:HB3	1.60	0.65
1:SH:35:THR:HG23	1:SH:37:GLN:HE22	1.60	0.65
1:U:48:ASN:O	1:U:62:ARG:NH1	2.29	0.65
2:UA:250:VAL:HG21	2:UA:318:MET:HE1	1.76	0.65
1:UL:257:LEU:HB3	1:UL:266:PHE:HE2	1.61	0.65
2:VE:167:LEU:HG	2:VE:200:VAL:HB	1.78	0.65
2:VE:207:GLU:OE1	2:VE:304:LYS:NZ	2.28	0.65
1:WJ:200:MET:HE2	1:WJ:268:MET:SD	2.36	0.65
1:WL:371:ASN:ND2	1:WL:373:CYS:SG	2.69	0.65
3:X:78:MET:HG2	3:X:165:LEU:HG	1.78	0.65
3:XD:34:VAL:HG22	3:XD:49:ILE:HG23	1.78	0.65
12:0W:9:ARG:HG3	12:0W:30:ARG:HD2	1.77	0.65
14:0c:296:ARG:NH2	14:0c:300:CYS:SG	2.69	0.65
22:0z:260:ARG:HH21	22:0z:263:LEU:HD12	1.60	0.65
51:X1:203:ASP:N	51:X1:206:THR:OG1	2.28	0.65
57:3i:118:ARG:HG3	57:3i:122:ARG:HD3	1.76	0.65
2:AG:50:ASN:O	2:AG:64:ARG:NH1	2.27	0.65
2:AK:431:ASP:HB3	3:XE:102:ARG:HH22	1.61	0.65
1:B:204:ASN:C	1:B:204:ASN:HD22	2.02	0.65
1:B:323:THR:HA	1:B:326:VAL:HG12	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BC:271:SER:HB3	2:BC:301:MET:HG3	1.79	0.65
1:BH:159:TYR:HB3	1:BH:162:ARG:HG3	1.79	0.65
1:BJ:323:THR:HA	1:BJ:326:VAL:HG12	1.77	0.65
2:BM:265:ILE:HG22	2:BM:380:ASN:HD21	1.60	0.65
1:CE:423:GLN:NE2	1:CE:427:ASP:OD2	2.29	0.65
1:FH:324:LYS:HZ2	2:FI:222:PRO:HG2	1.59	0.65
1:FJ:346:PRO:O	2:FK:394:LYS:NZ	2.27	0.65
1:H:253:LEU:HD21	1:H:316:LEU:HD21	1.77	0.65
2:HA:219:ILE:HG13	2:HA:222:PRO:HD3	1.79	0.65
2:HA:298:PRO:HA	2:HA:301:MET:HE3	1.79	0.65
2:HA:320:ARG:HD3	2:HA:360:PRO:HG3	1.77	0.65
1:IB:207:LEU:HB3	1:IB:225:LEU:HD22	1.77	0.65
1:JE:257:LEU:HD11	1:JE:314:SER:HB2	1.77	0.65
2:JF:258:ASN:OD1	1:JG:179:VAL:HG22	1.96	0.65
1:JI:360:GLY:H	52:3U:146:GLN:HE22	1.44	0.65
1:JK:276:ARG:NE	49:3Q:27:ASP:OD2	2.29	0.65
1:KK:189:VAL:HG11	1:KK:415:MET:SD	2.36	0.65
1:LA:66:MET:HE3	1:LA:147:MET:HE3	1.78	0.65
2:LB:22:GLU:OE2	29:1j:194:GLN:NE2	2.29	0.65
1:MJ:320:ARG:NH2	44:2w:4:ARG:O	2.29	0.65
1:N:247:ASN:ND2	2:NA:73:THR:OG1	2.29	0.65
1:NB:207:LEU:HD22	1:NB:300:MET:HB2	1.78	0.65
1:NB:253:LEU:HD11	1:NB:316:LEU:HD11	1.78	0.65
2:NI:320:ARG:HH21	2:NI:360:PRO:HA	1.61	0.65
2:OE:319:TYR:HB3	2:OE:323:VAL:HG21	1.77	0.65
1:QA:336:LYS:HE3	59:4a:140:ILE:HG12	1.78	0.65
2:QJ:271:SER:HB2	2:QJ:295:VAL:HG13	1.79	0.65
1:QK:257:LEU:HD21	1:QK:314:SER:HB3	1.78	0.65
2:QL:174:SER:HB2	2:QL:207:GLU:HB2	1.77	0.65
2:R:318:MET:O	2:R:375:VAL:HA	1.96	0.65
1:RA:31:ASP:OD1	1:RA:37:GLN:NE2	2.25	0.65
2:RF:102:ASN:HB3	2:RF:105:ARG:HB2	1.78	0.65
1:SF:5:VAL:HG23	1:SF:62:ARG:HG2	1.78	0.65
1:TF:173:PRO:HA	1:TF:176:SER:HB2	1.78	0.65
2:TG:67:PHE:HB2	2:TG:92:LEU:HD12	1.78	0.65
1:UF:345:ILE:HG23	1:UF:348:ASN:HD21	1.59	0.65
2:UG:204:LEU:HD22	2:UG:231:ILE:HD12	1.78	0.65
1:UJ:311:LEU:HA	1:UJ:342:ILE:HD12	1.77	0.65
1:VF:187:LEU:HD22	1:VF:403:MET:HE1	1.76	0.65
1:WB:202:ILE:HD12	1:WB:300:MET:HE2	1.78	0.65
1:WH:46:ARG:NH2	2:WI:76:ASP:OD2	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:0N:470:ASN:ND2	9:0N:486:ASP:OD1	2.26	0.65
9:0N:608:VAL:HG22	9:0N:618:ILE:HG12	1.77	0.65
9:0O:60:HIS:ND1	9:0O:80:GLN:OE1	2.26	0.65
28:1h:17:THR:O	28:1h:19:VAL:N	2.29	0.65
31:1r:224:ILE:HG21	22:1x:239:LEU:HD21	1.77	0.65
31:1r:224:ILE:HD11	31:1r:252:GLU:HG3	1.77	0.65
41:2f:455:GLU:OE2	41:2f:459:ARG:NH2	2.29	0.65
1:AB:10:GLY:O	1:AB:14:ASN:ND2	2.29	0.65
1:AF:2:ARG:N	1:AF:129:CYS:SG	2.69	0.65
1:BJ:66:MET:HE1	1:BJ:151:LEU:HD22	1.77	0.65
1:BL:282:ARG:NH1	1:BL:292:GLN:OE1	2.27	0.65
2:BM:288:VAL:HB	2:BM:327:ASP:HB3	1.79	0.65
1:CK:49:VAL:HG11	1:CK:241:ARG:HG2	1.79	0.65
1:CM:289:LEU:HD11	1:CM:363:MET:SD	2.36	0.65
1:DI:284:LEU:HD23	1:DI:362:LYS:HB3	1.77	0.65
1:DK:289:LEU:O	1:DK:293:MET:HG3	1.97	0.65
2:DL:102:ASN:HB3	2:DL:105:ARG:HB2	1.76	0.65
1:E:337:ASN:HB3	1:E:340:TYR:CD2	2.31	0.65
1:EB:173:PRO:HD3	1:EB:380:ARG:HD3	1.77	0.65
2:EI:67:PHE:HB2	2:EI:92:LEU:HD12	1.78	0.65
2:FA:116:ASP:OD1	2:FA:117:LEU:N	2.29	0.65
2:HI:28:HIS:CE1	2:HI:243:ARG:HD2	2.31	0.65
1:HL:275:SER:O	1:HL:279:GLN:NE2	2.29	0.65
1:IF:309:ARG:HH21	1:IF:342:ILE:HA	1.61	0.65
1:IL:323:THR:HA	1:IL:326:VAL:HG12	1.79	0.65
1:JC:77:ARG:O	17:0m:12:ARG:NH1	2.29	0.65
2:JD:26:LEU:HD12	2:JD:363:VAL:HG12	1.78	0.65
2:JD:51:THR:HG21	2:JD:243:ARG:HG2	1.79	0.65
1:JK:396:HIS:HA	1:JK:399:THR:HG22	1.78	0.65
1:JM:420:SER:HG	60:3t:48:ILE:C	2.01	0.65
2:KB:319:TYR:HB3	2:KB:323:VAL:HG21	1.78	0.65
2:KL:215:ARG:NH2	2:KL:299:ALA:O	2.30	0.65
1:KM:152:ILE:HG22	1:KM:195:ASN:HB3	1.78	0.65
1:KM:296:ALA:HB2	1:KM:306:ARG:HH12	1.62	0.65
1:LC:186:THR:HG23	1:LC:415:MET:HG3	1.79	0.65
1:LI:232:VAL:HG21	1:LI:268:MET:SD	2.37	0.65
1:MB:229:VAL:O	1:MB:233:MET:HG3	1.96	0.65
2:MK:270:THR:HG23	2:MK:302:LEU:HB2	1.77	0.65
2:MM:254:GLU:O	2:MM:258:ASN:ND2	2.30	0.65
2:NM:395:PHE:CD2	2:NM:422:ARG:HD3	2.31	0.65
1:OF:214:THR:HG22	1:OF:297:LYS:HE2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QI:211:CYS:HB3	1:QI:220:PRO:HG3	1.77	0.65
2:SG:71:GLU:HB3	2:SG:98:ASP:HB3	1.77	0.65
1:SH:27:GLU:OE2	1:SH:318:ARG:NH2	2.29	0.65
1:T:347:ASN:ND2	2:TA:178:SER:O	2.25	0.65
2:UG:326:LYS:NZ	1:UH:220:PRO:O	2.29	0.65
2:UK:67:PHE:HB2	2:UK:92:LEU:HD12	1.78	0.65
1:VB:207:LEU:HB3	1:VB:225:LEU:HD22	1.79	0.65
4:XO:168:GLU:HG3	4:XO:173:TYR:HB3	1.78	0.65
21:0w:51:SER:OG	21:0w:54:GLU:OE1	2.14	0.65
22:1x:72:THR:O	48:3G:43:LYS:NZ	2.29	0.65
38:2U:83:THR:HG23	38:2U:85:HIS:HE1	1.60	0.65
49:3Q:196:VAL:HG13	49:3Q:218:VAL:HG13	1.79	0.65
65:5G:214:GLU:O	65:5G:218:ALA:N	2.25	0.65
2:AA:151:ALA:O	2:AA:155:GLU:HG3	1.95	0.65
1:AB:18:SER:HB2	1:AB:76:VAL:HG23	1.78	0.65
1:AL:387:GLY:O	1:AL:390:ARG:NH1	2.28	0.65
1:AN:200:MET:HE1	1:AN:368:ILE:HD12	1.77	0.65
2:CJ:44:VAL:HG11	24:1J:302:LYS:HZ1	1.61	0.65
2:FE:308:ARG:NH1	63:4I:294:ALA:O	2.26	0.65
2:GE:259:LEU:O	2:GE:380:ASN:ND2	2.29	0.65
1:GF:31:ASP:OD2	1:GF:35:THR:OG1	2.14	0.65
2:GK:7:ILE:HB	2:GK:137:VAL:HG12	1.78	0.65
2:JD:258:ASN:HD21	2:JD:352:LYS:HD3	1.62	0.65
1:JE:272:PRO:HG3	1:JE:284:LEU:HD11	1.79	0.65
2:JF:346:TRP:CD1	1:JG:391:ARG:HD2	2.31	0.65
2:KD:326:LYS:HD2	1:KE:220:PRO:HD2	1.78	0.65
1:LA:267:MET:HB2	1:LA:369:GLY:H	1.62	0.65
1:LC:107:THR:HG22	33:2F:256:HIS:HD2	1.61	0.65
2:LJ:254:GLU:HA	1:LK:98:GLY:HA2	1.79	0.65
2:LJ:259:LEU:HD21	2:LJ:268:VAL:HG21	1.79	0.65
2:MA:329:ASN:ND2	1:MB:208:TYR:HD2	1.95	0.65
1:MF:376:GLU:HG2	33:2G:196:GLY:HA3	1.79	0.65
1:NL:389:PHE:HE1	1:NL:395:LEU:HD21	1.61	0.65
2:OC:212:LEU:HD21	2:OC:275:VAL:HG11	1.78	0.65
1:PB:326:VAL:HG21	1:PB:353:ILE:HD11	1.76	0.65
2:QL:166:LYS:HB2	2:QL:199:ASP:H	1.59	0.65
1:RA:11:GLN:NE2	1:RA:15:GLN:OE1	2.29	0.65
1:RE:49:VAL:HG11	1:RE:241:ARG:HG2	1.79	0.65
2:RJ:175:PRO:HD2	2:RJ:176:GLN:N	2.06	0.65
2:SA:27:GLU:OE1	2:SA:243:ARG:NH2	2.29	0.65
1:SB:242:PHE:HB3	1:SB:356:ILE:HD13	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SB:345:ILE:HG23	2:SC:398:MET:HE2	1.78	0.65
2:SK:98:ASP:O	2:SK:105:ARG:NH2	2.29	0.65
1:TF:347:ASN:HD22	2:TG:178:SER:HB3	1.60	0.65
1:TJ:392:LYS:HE3	1:TJ:395:LEU:HD23	1.79	0.65
2:TK:119:LEU:HD11	2:TK:156:ARG:HB3	1.78	0.65
2:TK:326:LYS:NZ	1:TL:218:THR:O	2.30	0.65
1:UH:347:ASN:ND2	2:UI:178:SER:OG	2.27	0.65
1:VD:172:SER:OG	1:VD:205:GLU:OE2	2.06	0.65
1:WH:377:MET:HE2	1:WH:380:ARG:HH12	1.61	0.65
3:XB:131:GLN:HE22	3:XB:133:GLN:HE22	1.44	0.65
4:XM:28:ALA:HB3	4:XM:32:GLY:O	1.95	0.65
5:XP:100:CYS:O	5:XP:109:ARG:NH2	2.30	0.65
5:XP:250:ARG:NH2	5:XP:306:MET:SD	2.69	0.65
9:0M:547:GLY:HA3	9:0M:553:LEU:HD11	1.77	0.65
27:1S:18:PRO:HG2	27:1S:21:TYR:HD2	1.61	0.65
66:5K:119:VAL:HG11	66:5K:193:ASP:HB2	1.76	0.65
1:AB:257:LEU:HD11	1:AB:314:SER:HB3	1.77	0.65
1:AD:256:ASN:HD21	2:AE:101:ASN:HD22	1.42	0.65
2:AI:174:SER:OG	2:AI:177:VAL:O	2.11	0.65
2:AI:286:LEU:O	2:AI:373:ARG:NH1	2.30	0.65
2:BG:258:ASN:ND2	1:BH:99:ASN:ND2	2.43	0.65
1:CA:323:THR:HA	1:CA:326:VAL:HG12	1.79	0.65
2:DD:70:LEU:HD12	2:DD:145:THR:HG22	1.79	0.65
2:EI:346:TRP:CD1	1:EJ:391:ARG:HE	2.14	0.65
1:F:207:LEU:HD13	1:F:225:LEU:HB3	1.77	0.65
1:FD:301:GLN:HE22	1:FD:303:ALA:HB3	1.62	0.65
1:GB:371:ASN:ND2	1:GB:373:CYS:SG	2.69	0.65
2:HK:11:GLN:HE22	2:HK:15:GLN:HE21	1.43	0.65
1:HL:213:ARG:HD2	1:HL:297:LYS:HB2	1.76	0.65
1:I:203:ASP:OD2	1:I:301:GLN:HA	1.97	0.65
2:IG:50:ASN:O	2:IG:64:ARG:NH1	2.30	0.65
1:IL:286:VAL:HA	1:IL:289:LEU:HB2	1.79	0.65
1:JE:350:LYS:HZ3	2:JF:179:THR:HG22	1.62	0.65
2:JF:194:LEU:O	2:JF:266:HIS:NE2	2.24	0.65
1:KC:121:ARG:NH1	1:KC:158:GLU:OE2	2.29	0.65
1:KM:128:ASP:OD2	2:KN:96:LYS:NZ	2.30	0.65
2:KN:317:LEU:HD13	2:KN:377:MET:HB2	1.77	0.65
2:LF:21:TRP:HZ2	2:LF:65:CYS:HB3	1.62	0.65
1:LK:178:THR:HB	1:LK:181:GLU:HG3	1.79	0.65
2:MG:11:GLN:N	71:MG:501:GTP:O1A	2.29	0.65
2:NM:51:THR:HG23	2:NM:52:PHE:HD1	1.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PA:209:ILE:HD13	2:PA:227:VAL:HG13	1.79	0.65
2:PC:209:ILE:HG12	2:PC:302:LEU:HD22	1.78	0.65
2:PC:248:LEU:HB2	2:PC:355:ILE:H	1.61	0.65
2:PI:289:ALA:O	2:PI:293:ASN:ND2	2.30	0.65
2:PK:88:ASN:HB3	2:PK:91:GLN:HE22	1.59	0.65
1:PL:61:PRO:HG2	1:PL:85:PHE:HD1	1.60	0.65
2:QB:212:LEU:HD11	2:QB:275:VAL:HG21	1.78	0.65
2:QD:75:VAL:HG21	2:QD:94:SER:HB2	1.78	0.65
2:QL:434:GLU:OE1	57:3i:68:ARG:NH2	2.30	0.65
1:RA:133:PHE:HB2	1:RA:164:MET:SD	2.36	0.65
1:RA:274:THR:HG22	1:RA:282:ARG:HE	1.61	0.65
2:RD:311:LYS:H	2:RD:382:THR:HG22	1.62	0.65
1:RE:187:LEU:HD11	1:RE:408:PHE:HE1	1.61	0.65
2:SC:377:MET:HE2	2:SC:379:ALA:HB2	1.79	0.65
1:TF:66:MET:HB3	1:TF:147:MET:HE3	1.77	0.65
1:TF:215:LEU:HD11	1:TF:228:LEU:HD21	1.78	0.65
2:TG:315:CYS:HB3	2:TG:377:MET:HE1	1.78	0.65
1:TJ:8:GLN:NE2	1:TJ:65:LEU:HG	2.12	0.65
1:UF:156:ARG:NH2	1:UF:197:ASP:OD1	2.29	0.65
1:UJ:337:ASN:HB3	1:UJ:340:TYR:HB2	1.78	0.65
2:VE:70:LEU:HD12	2:VE:99:ALA:HB2	1.77	0.65
2:VM:320:ARG:HG2	2:VM:356:ASN:HB2	1.77	0.65
2:WI:88:ASN:OD1	2:WI:89:PRO:HD2	1.96	0.65
4:XM:121:THR:HG22	4:XM:123:PHE:H	1.62	0.65
4:XM:182:LEU:HD22	4:XM:221:ILE:HD13	1.79	0.65
4:XR:115:LYS:HD3	4:XR:211:HIS:CD2	2.32	0.65
8:0I:242:ILE:O	8:0I:246:ARG:HG2	1.97	0.65
9:0M:547:GLY:HA2	9:0M:577:TRP:HH2	1.60	0.65
9:0O:218:THR:OG1	9:0O:222:ASP:OD1	2.15	0.65
10:0R:93:LEU:O	46:3B:19:ASN:N	2.30	0.65
2:AG:215:ARG:NH2	2:AG:299:ALA:O	2.30	0.65
2:AK:295:VAL:HG21	2:AK:375:VAL:HG13	1.79	0.65
1:AL:247:ASN:H	2:AM:11:GLN:HE22	1.45	0.65
1:BH:252:LYS:HD3	1:BH:256:ASN:ND2	2.11	0.65
1:EB:301:GLN:HE22	1:EB:303:ALA:HB3	1.62	0.65
1:ED:3:GLU:O	1:ED:131:GLN:N	2.29	0.65
2:FG:316:CYS:HB3	2:FG:378:ILE:HG13	1.78	0.65
1:G:134:GLN:HA	1:G:165:MET:HB2	1.78	0.65
1:GD:7:CYS:O	1:GD:135:LEU:HA	1.96	0.65
1:GF:178:THR:HG22	1:GF:180:VAL:H	1.61	0.65
1:GJ:113:ILE:HG13	1:GJ:117:LEU:HD23	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GL:375:GLN:HB2	1:GL:419:VAL:HG23	1.78	0.65
1:HB:247:ASN:ND2	2:HC:73:THR:OG1	2.27	0.65
2:HG:188:VAL:HG23	2:HG:425:LEU:HD12	1.77	0.65
2:HG:269:LEU:HB3	2:HG:301:MET:HE1	1.78	0.65
2:II:370:LYS:NZ	7:0D:185:THR:O	2.29	0.65
2:IK:3:GLU:HB2	2:IK:132:LEU:HA	1.79	0.65
2:IK:320:ARG:HE	2:IK:360:PRO:HA	1.61	0.65
2:JF:258:ASN:HD22	2:JF:352:LYS:HE2	1.62	0.65
1:JG:87:PRO:HD3	1:KG:281:TYR:CD2	2.30	0.65
2:JN:315:CYS:SG	2:JN:377:MET:HE1	2.36	0.65
2:KF:203:MET:HE3	2:KF:203:MET:HA	1.78	0.65
2:LD:34:GLY:HA3	2:LD:60:LYS:HB2	1.79	0.65
2:LD:364:PRO:HB3	29:1k:201:TYR:HD1	1.61	0.65
2:LF:108:TYR:HA	2:LF:112:LYS:HE2	1.77	0.65
2:MG:173:PRO:HG3	2:MG:183:GLU:HG2	1.78	0.65
1:ML:139:LEU:HD13	1:ML:188:SER:HB2	1.79	0.65
1:OJ:150:LEU:HD21	1:OJ:154:LYS:HE2	1.77	0.65
2:PG:286:LEU:HB3	2:PG:291:ILE:HD11	1.79	0.65
1:PH:405:GLU:OE1	58:3m:25:ARG:NH1	2.29	0.65
2:PK:15:GLN:NE2	71:PK:501:GTP:O6	2.29	0.65
1:QE:213:ARG:HD2	1:QE:297:LYS:HD3	1.77	0.65
1:QK:324:LYS:HE2	2:QL:222:PRO:HG2	1.77	0.65
2:R:4:ALA:HB3	2:R:52:PHE:HE2	1.62	0.65
2:R:306:ASP:OD2	2:R:308:ARG:NH1	2.29	0.65
2:RF:258:ASN:HD21	1:RG:178:THR:HG23	1.62	0.65
1:RI:14:ASN:ND2	1:RI:73:MET:SD	2.70	0.65
1:RK:379:ARG:O	1:RK:383:GLU:HG3	1.97	0.65
1:S:247:ASN:ND2	2:SA:73:THR:OG1	2.29	0.65
2:SA:270:THR:HG23	2:SA:302:LEU:HB2	1.79	0.65
2:SG:419:SER:O	2:SG:423:GLU:HG3	1.97	0.65
1:SH:236:VAL:HG23	1:SH:237:THR:HG23	1.79	0.65
1:SH:299:MET:HE1	1:SH:367:PHE:HD1	1.61	0.65
1:TH:245:GLN:HG3	48:3M:429:THR:HG21	1.79	0.65
1:UB:183:TYR:HE2	1:UB:394:PHE:HB2	1.61	0.65
2:VE:340:THR:HG23	2:VE:341:ILE:HD12	1.79	0.65
1:VH:392:LYS:NZ	1:VH:405:GLU:OE2	2.30	0.65
1:VJ:336:LYS:NZ	62:4B:354:HIS:O	2.29	0.65
2:WA:39:ASP:OD2	9:0L:230:GLN:NE2	2.29	0.65
2:WK:174:SER:OG	2:WK:177:VAL:O	2.14	0.65
3:XB:18:GLY:O	3:XB:36:ARG:NH1	2.29	0.65
4:XM:229:ASP:OD1	4:XM:230:ASP:N	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:XP:18:ASP:OD2	5:XP:220:HIS:NE2	2.24	0.65
24:1J:251:ASP:OD1	24:1J:252:ARG:N	2.30	0.65
27:1S:150:ASP:O	27:1S:175:LYS:NZ	2.29	0.65
28:1g:227:VAL:HG21	41:2k:144:MET:HB3	1.76	0.65
1:AD:86:ARG:NH1	1:BD:281:TYR:O	2.29	0.65
1:BF:190:HIS:HB2	1:BF:414:ASN:HD22	1.61	0.65
2:C:316:CYS:SG	2:C:378:ILE:HB	2.37	0.65
2:CD:119:LEU:HD11	2:CD:156:ARG:HB3	1.77	0.65
1:EH:323:THR:HG22	2:EI:223:SER:HA	1.79	0.65
1:FD:184:ASN:OD1	1:FD:398:TYR:OH	2.14	0.65
1:FH:218:THR:HG22	1:FH:219:THR:HG23	1.77	0.65
1:HF:253:LEU:HD11	1:HF:316:LEU:HD11	1.79	0.65
2:HG:316:CYS:HB3	2:HG:378:ILE:HG23	1.79	0.65
2:IG:3:GLU:HA	2:IG:51:THR:HA	1.79	0.65
2:II:274:PRO:HD2	2:II:374:ALA:HA	1.79	0.65
1:JA:252:LYS:NZ	2:JB:101:ASN:HB2	2.12	0.65
1:LA:345:ILE:O	1:LA:348:ASN:ND2	2.30	0.65
2:LD:53:PHE:HB3	2:LD:61:HIS:HB3	1.78	0.65
2:LD:180:ALA:HB3	2:LD:183:GLU:HB2	1.78	0.65
2:LH:191:THR:HG21	2:LH:425:LEU:HD12	1.77	0.65
2:ME:209:ILE:HG23	2:ME:230:LEU:HD12	1.79	0.65
1:MF:247:ASN:ND2	2:MG:73:THR:OG1	2.29	0.65
2:MK:77:GLU:OE2	44:2w:2:SER:N	2.29	0.65
1:N:83:GLN:O	1:O:281:TYR:OH	2.14	0.65
1:PD:253:LEU:HD21	1:PD:316:LEU:HD11	1.79	0.65
2:QF:434:GLU:HG3	58:3m:53:ARG:NH1	2.12	0.65
2:QJ:325:PRO:HA	2:QJ:328:VAL:HG22	1.79	0.65
2:R:174:SER:OG	2:R:177:VAL:O	2.14	0.65
2:RB:207:GLU:HA	2:RB:210:TYR:HD2	1.61	0.65
2:RB:224:TYR:O	2:RB:228:ASN:ND2	2.28	0.65
2:RL:104:ALA:HB2	2:RL:413:MET:HE3	1.78	0.65
2:SA:89:PRO:HG2	2:TA:280:LYS:HD3	1.79	0.65
2:SE:241:SER:HB2	2:SE:318:MET:HE1	1.79	0.65
1:UH:322:SER:OG	2:UI:222:PRO:O	2.13	0.65
1:V:139:LEU:HD12	1:V:170:ILE:HG12	1.78	0.65
2:VE:234:VAL:HG21	2:VE:302:LEU:HD11	1.78	0.65
1:WB:301:GLN:HE22	1:WB:303:ALA:HB3	1.60	0.65
2:WC:286:LEU:O	2:WC:373:ARG:NH1	2.30	0.65
6:0A:29:VAL:HG22	14:0d:215:VAL:HG23	1.77	0.65
8:0J:247:ARG:N	8:0J:249:MET:SD	2.69	0.65
9:0L:253:THR:HA	9:0L:292:LEU:HD21	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:0M:306:LEU:HB3	9:0M:320:LEU:HG	1.79	0.65
12:0W:312:ARG:HD3	12:0W:322:ASN:HB2	1.78	0.65
23:1E:146:PRO:O	23:1E:155:ARG:NH2	2.30	0.65
27:1T:732:SER:O	27:1T:736:ARG:HG2	1.96	0.65
28:1a:236:CYS:SG	28:1b:28:HIS:HE1	2.14	0.65
28:1c:21:ARG:C	41:2i:351:ARG:HH12	2.05	0.65
22:1x:79:PRO:HG2	22:1x:128:ARG:HB2	1.79	0.65
41:2o:391:GLU:OE1	41:2o:394:ARG:NH2	2.30	0.65
2:BE:50:ASN:C	2:BE:50:ASN:HD22	2.03	0.65
2:EI:117:LEU:O	2:EI:121:ARG:HG2	1.97	0.65
1:FB:290:THR:HA	1:FB:293:MET:HE2	1.79	0.65
1:FD:66:MET:HE3	1:FD:116:VAL:HG21	1.79	0.65
1:GH:237:THR:OG1	1:GH:241:ARG:NH1	2.29	0.65
1:HH:165:MET:HE2	1:HH:200:MET:HE3	1.78	0.65
1:IB:165:MET:HE1	1:IB:250:LEU:HD22	1.78	0.65
2:JD:337:THR:HG21	19:0r:12:PRO:HB3	1.79	0.65
2:JF:238:LEU:HD21	2:JF:378:ILE:HD11	1.79	0.65
1:JK:35:THR:OG1	1:JK:37:GLN:NE2	2.27	0.65
2:LB:103:TYR:HB3	2:LB:408:TYR:HE1	1.60	0.65
2:LD:71:GLU:HB2	2:LD:98:ASP:HB3	1.79	0.65
2:LF:410:GLY:HA2	13:0Y:156:THR:HG22	1.79	0.65
2:LJ:264:ARG:HH11	22:0z:144:LYS:CD	2.00	0.65
2:NC:178:SER:OG	2:NC:183:GLU:OE1	2.14	0.65
1:NJ:236:VAL:HG13	1:NJ:237:THR:HG23	1.77	0.65
2:OG:295:VAL:HG21	2:OG:375:VAL:HG13	1.77	0.65
2:OM:310:GLY:O	2:OM:342:GLN:NE2	2.30	0.65
1:PL:305:PRO:HB3	1:PL:310:TYR:HE1	1.61	0.65
2:Q:265:ILE:HG22	2:Q:380:ASN:HD21	1.61	0.65
1:QA:207:LEU:HB3	1:QA:225:LEU:HD22	1.78	0.65
1:QA:331:LEU:HD22	2:QB:177:VAL:HB	1.78	0.65
2:QH:437:ALA:O	1:QI:391:ARG:NH2	2.30	0.65
1:QI:27:GLU:OE2	1:QI:318:ARG:NH2	2.28	0.65
1:QI:159:TYR:HB3	1:QI:162:ARG:HG3	1.79	0.65
2:RF:392:ASP:OD2	2:RF:422:ARG:NH1	2.29	0.65
2:RL:274:PRO:HD2	2:RL:374:ALA:HA	1.78	0.65
1:S:27:GLU:OE1	1:S:234:SER:OG	2.14	0.65
2:SA:69:ASP:OD2	2:SA:70:LEU:N	2.30	0.65
2:SE:167:LEU:HD21	2:SE:255:PHE:HZ	1.61	0.65
2:SE:239:THR:HG23	2:SE:243:ARG:HE	1.62	0.65
1:SF:65:LEU:HB3	1:SF:73:MET:HE1	1.78	0.65
2:TG:239:THR:HG23	2:TG:243:ARG:HE	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TL:318:ARG:NE	1:TL:356:ILE:O	2.27	0.65
1:U:218:THR:HG23	1:U:219:THR:HG23	1.79	0.65
1:U:289:LEU:HD11	1:U:363:MET:HG3	1.79	0.65
1:UD:60:VAL:HG11	1:UD:86:ARG:HE	1.62	0.65
2:UK:89:PRO:HG2	2:VK:280:LYS:HG2	1.77	0.65
2:WG:174:SER:HB2	2:WG:207:GLU:HG2	1.79	0.65
2:WK:26:LEU:HD12	2:WK:363:VAL:HG12	1.78	0.65
8:0F:50:GLY:O	8:0F:55:HIS:CB	2.44	0.65
8:0H:469:ASP:HA	8:0H:472:ARG:HG2	1.77	0.65
10:0S:306:LYS:HG3	10:0S:310:MET:HE1	1.78	0.65
24:1I:96:ARG:HD2	24:1I:184:ASP:HB3	1.79	0.65
44:2w:329:ILE:CG2	45:2z:90:PRO:HG3	2.26	0.65
2:AI:27:GLU:OE1	2:AI:243:ARG:NH2	2.29	0.65
1:B:100:ASN:HB3	1:B:103:LYS:HB2	1.79	0.65
2:BC:209:ILE:HG21	2:BC:227:VAL:HG13	1.77	0.65
2:CL:45:GLU:OE1	24:1K:277:TYR:OH	2.11	0.65
2:D:174:SER:OG	2:D:177:VAL:O	2.15	0.65
1:DG:235:GLY:HA3	1:DG:366:THR:HG21	1.79	0.65
2:FG:213:THR:HG22	2:FG:217:LEU:HD12	1.77	0.65
1:GB:245:GLN:HE22	2:GC:223:SER:HG	1.43	0.65
1:GD:322:SER:OG	2:GE:222:PRO:O	2.15	0.65
1:HH:62:ARG:NH1	1:HH:127:CYS:SG	2.70	0.65
2:HI:224:TYR:HA	2:HI:227:VAL:HG12	1.79	0.65
1:JG:253:LEU:HD21	1:JG:316:LEU:HD21	1.78	0.65
2:LB:258:ASN:OD1	1:LC:99:ASN:ND2	2.30	0.65
2:LH:298:PRO:HA	2:LH:301:MET:HE1	1.79	0.65
2:LN:326:LYS:HE3	1:LO:208:TYR:CB	2.26	0.65
2:MA:116:ASP:OD1	2:MA:117:LEU:N	2.30	0.65
2:MG:102:ASN:HB3	2:MG:105:ARG:HG3	1.79	0.65
2:MI:3:GLU:HA	2:MI:51:THR:HA	1.78	0.65
2:NG:91:GLN:H	2:NG:121:ARG:HE	1.43	0.65
2:NG:271:SER:HB3	2:NG:301:MET:HG3	1.77	0.65
2:OM:53:PHE:HB3	2:OM:61:HIS:HB3	1.77	0.65
2:PM:317:LEU:HG	2:PM:377:MET:HG3	1.77	0.65
2:QD:293:ASN:O	2:QD:297:GLU:HG2	1.97	0.65
1:QE:340:TYR:OH	59:4a:239:LYS:O	2.09	0.65
1:QG:63:ALA:O	1:QG:89:ASN:ND2	2.30	0.65
1:QK:5:VAL:HG23	1:QK:62:ARG:HG2	1.78	0.65
1:SB:318:ARG:HE	1:SB:358:PRO:HD3	1.62	0.65
2:SI:288:VAL:HB	2:SI:327:ASP:HB3	1.77	0.65
2:SK:123:ARG:HH22	61:3x:109:GLU:HG2	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TH:390:ARG:HE	57:3g:180:ARG:HH12	1.44	0.65
2:VC:212:LEU:HD11	2:VC:275:VAL:HG11	1.79	0.65
1:WB:322:SER:OG	1:WB:325:GLU:OE1	2.15	0.65
4:XQ:89:PRO:HD3	33:2H:56:SER:HB3	1.78	0.65
6:0A:151:GLU:HA	6:0A:154:LYS:HB2	1.77	0.65
8:0G:190:GLU:OE1	8:0G:193:ARG:NH2	2.30	0.65
14:0d:326:THR:O	14:0d:330:ILE:HG12	1.97	0.65
46:3B:105:ASP:OD2	46:3B:355:ARG:NH2	2.30	0.65
66:5L:232:THR:HB	66:5L:233:ARG:HH11	1.62	0.65
1:AH:323:THR:HA	1:AH:326:VAL:HG12	1.78	0.65
1:AJ:109:GLY:HA2	1:AJ:147:MET:HE2	1.78	0.65
1:AL:173:PRO:HA	1:AL:176:SER:HB3	1.78	0.65
2:BA:53:PHE:HB3	2:BA:61:HIS:HB3	1.79	0.65
2:BE:297:GLU:OE2	2:BE:338:LYS:NZ	2.30	0.65
1:BL:31:ASP:OD1	1:BL:37:GLN:NE2	2.30	0.65
2:CD:295:VAL:HG12	2:CD:377:MET:HE2	1.79	0.65
1:CE:322:SER:OG	2:CF:222:PRO:O	2.15	0.65
2:CH:102:ASN:HB3	2:CH:105:ARG:HB2	1.78	0.65
1:CI:256:ASN:HD21	2:CJ:101:ASN:HD22	1.43	0.65
2:CL:207:GLU:HA	2:CL:210:TYR:HB2	1.78	0.65
1:DI:189:VAL:HG21	1:DI:415:MET:SD	2.36	0.65
1:DM:273:LEU:N	1:DM:292:GLN:OE1	2.30	0.65
2:EC:316:CYS:HB3	2:EC:378:ILE:HG23	1.78	0.65
2:EE:296:PHE:CE1	2:EE:377:MET:HE1	2.32	0.65
2:EI:319:TYR:HB3	2:EI:323:VAL:HG11	1.78	0.65
1:FB:330:MET:HE3	1:FB:349:ILE:HG21	1.78	0.65
1:FF:107:THR:OG1	1:FF:401:GLU:OE2	2.11	0.65
1:GH:198:GLU:HA	1:GH:264:HIS:HB2	1.77	0.65
2:GK:417:GLU:HA	2:GK:420:GLU:HG2	1.77	0.65
2:HA:311:LYS:H	2:HA:382:THR:HB	1.61	0.65
1:HH:385:PHE:HE2	1:HH:412:GLU:HB2	1.62	0.65
1:HL:327:ASP:HB3	2:HM:177:VAL:HG13	1.79	0.65
2:IE:39:ASP:HA	11:0U:81:ASP:HB2	1.79	0.65
1:IH:33:THR:O	1:IH:58:ARG:NH1	2.30	0.65
2:LB:209:ILE:HG12	2:LB:302:LEU:HD22	1.78	0.65
1:LE:94:GLN:NE2	32:2B:263:THR:OG1	2.29	0.65
1:MH:169:VAL:HA	1:MH:202:ILE:HB	1.79	0.65
2:NE:392:ASP:OD1	2:NE:393:HIS:N	2.29	0.65
1:NH:66:MET:HE3	1:NH:116:VAL:HG11	1.79	0.65
2:NI:329:ASN:HD21	1:NJ:175:VAL:HG13	1.61	0.65
1:NL:304:ASP:HB3	1:NL:307:HIS:CE1	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OE:56:THR:HG22	2:OE:58:ALA:H	1.62	0.65
2:OK:89:PRO:HG2	2:PK:280:LYS:HG3	1.79	0.65
2:OK:239:THR:OG1	2:OK:243:ARG:NH1	2.30	0.65
1:PH:113:ILE:HG13	1:PH:117:LEU:HD23	1.79	0.65
1:PJ:318:ARG:HG2	1:PJ:357:PRO:HA	1.78	0.65
1:QA:356:ILE:HG21	28:1b:37:PHE:HE1	1.62	0.65
2:QB:177:VAL:HG12	2:QB:207:GLU:OE2	1.97	0.65
2:RL:159:VAL:HG21	57:3i:130:TYR:HD2	1.62	0.65
1:SB:247:ASN:H	2:SC:11:GLN:HE22	1.44	0.65
2:SC:97:GLU:OE2	2:SC:105:ARG:NH2	2.29	0.65
2:SG:438:GLU:O	57:3g:138:LYS:NZ	2.28	0.65
1:SH:306:ARG:HG2	1:SH:340:TYR:HE2	1.62	0.65
1:TH:268:MET:HB3	1:TH:300:MET:HG2	1.80	0.65
1:UH:252:LYS:HZ2	2:UI:101:ASN:H	1.45	0.65
2:UI:211:ASP:HA	2:UI:214:ARG:HG2	1.79	0.65
1:WB:165:MET:HE1	1:WB:200:MET:HE2	1.79	0.65
2:WM:212:LEU:HD21	2:WM:275:VAL:HG11	1.79	0.65
4:XO:248:ASN:HB2	4:XO:300:VAL:HG12	1.79	0.65
7:0D:218:LYS:NZ	18:0p:301:ALA:HB3	2.12	0.65
10:0R:105:ILE:HG22	10:0R:109:GLN:NE2	2.12	0.65
16:0k:58:SER:OG	16:0k:60:GLU:OE1	2.15	0.65
24:1H:507:ASN:OD1	24:1H:508:SER:N	2.30	0.65
28:1b:30:CYS:SG	72:1b:301:ZN:ZN	1.85	0.65
31:1r:228:LEU:HB3	22:1x:263:LEU:HD11	1.78	0.65
1:AH:208:TYR:CZ	1:AH:225:LEU:HD11	2.31	0.64
1:AJ:347:ASN:ND2	2:AK:178:SER:O	2.30	0.64
2:C:1:MET:HE1	1:CA:94:GLN:HA	1.78	0.64
1:CE:256:ASN:HD21	2:CF:101:ASN:HD22	1.42	0.64
2:CH:98:ASP:O	2:CH:105:ARG:NH1	2.30	0.64
2:CL:307:PRO:HB3	2:CL:312:TYR:HE1	1.61	0.64
1:DA:313:ALA:HB3	1:DA:349:ILE:HG12	1.79	0.64
2:DL:406:HIS:HA	2:DL:409:VAL:HG22	1.78	0.64
1:DM:51:PHE:HB3	1:DM:59:TYR:HB3	1.79	0.64
2:EE:209:ILE:HG21	2:EE:227:VAL:HG13	1.79	0.64
1:FB:272:PRO:HD2	1:FB:361:LEU:HD21	1.79	0.64
1:FH:197:ASP:OD1	1:FH:198:GLU:N	2.30	0.64
2:GE:309:HIS:CE1	59:4O:216:THR:OG1	2.50	0.64
2:GG:50:ASN:O	2:GG:64:ARG:NH1	2.26	0.64
2:GG:274:PRO:HG2	2:GG:371:VAL:HG11	1.78	0.64
1:GJ:389:PHE:HZ	1:GJ:405:GLU:HG3	1.62	0.64
2:IC:239:THR:HG23	2:IC:243:ARG:HE	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IL:207:LEU:HD13	1:IL:228:LEU:HD23	1.78	0.64
2:J:238:LEU:HD13	2:J:318:MET:HE1	1.79	0.64
1:JG:207:LEU:HB3	1:JG:225:LEU:HD22	1.78	0.64
2:JJ:76:ASP:OD1	2:JJ:79:ARG:NH2	2.28	0.64
1:KG:60:VAL:HG11	1:KG:86:ARG:HG3	1.78	0.64
1:KG:216:LYS:NZ	10:0R:41:GLU:OE2	2.25	0.64
1:KM:323:THR:HA	1:KM:326:VAL:HG12	1.79	0.64
2:L:217:LEU:HD21	2:L:275:VAL:HG22	1.78	0.64
1:LI:189:VAL:HG11	1:LI:415:MET:HG3	1.77	0.64
1:LM:293:MET:HE1	1:LM:315:ALA:HB2	1.78	0.64
1:MF:212:PHE:HZ	33:2G:204:PHE:HD1	1.45	0.64
1:MN:156:ARG:NH1	1:MN:197:ASP:OD1	2.28	0.64
1:OL:67:ASP:O	1:OL:92:PHE:HA	1.97	0.64
1:PF:3:GLU:O	1:PF:131:GLN:N	2.30	0.64
1:PL:272:PRO:HG3	1:PL:289:LEU:HD21	1.79	0.64
2:PM:154:LEU:HD13	2:PM:166:LYS:NZ	2.12	0.64
2:R:195:LEU:HD11	2:R:264:ARG:HH21	1.61	0.64
1:SB:334:GLN:HE21	1:SB:349:ILE:HG12	1.61	0.64
2:TI:326:LYS:HD2	1:TJ:212:PHE:CE2	2.32	0.64
2:TI:364:PRO:HB3	48:3M:440:PHE:HB3	1.79	0.64
1:UD:129:CYS:HB2	2:UE:96:LYS:HE2	1.79	0.64
2:UG:175:PRO:HG2	2:UG:304:LYS:HD2	1.79	0.64
1:V:360:GLY:HA2	8:0F:172:GLU:HG3	1.79	0.64
2:VC:270:THR:HG23	2:VC:302:LEU:HB2	1.79	0.64
1:VH:48:ASN:O	1:VH:62:ARG:NH1	2.29	0.64
2:WC:127:ASP:OD1	2:WC:128:ASN:N	2.30	0.64
1:WH:132:GLY:HA2	1:WH:162:ARG:HB3	1.79	0.64
6:0:126:SER:HG	6:0:129:THR:HG1	1.43	0.64
24:1K:340:ALA:HA	24:1K:343:ILE:HG22	1.78	0.64
32:2B:250:PRO:HG2	32:2B:261:MET:HE2	1.79	0.64
2:AC:75:VAL:HG21	2:AC:94:SER:HB2	1.78	0.64
1:AF:284:LEU:N	1:MF:55:SER:OG	2.30	0.64
1:AL:322:SER:OG	1:AL:325:GLU:OE1	2.13	0.64
2:BG:286:LEU:O	2:BG:373:ARG:NH1	2.29	0.64
1:CA:262:ARG:NH2	1:CA:414:ASN:OD1	2.29	0.64
2:CD:11:GLN:HG3	2:CD:74:VAL:HG11	1.77	0.64
1:CG:121:ARG:O	1:CG:125:GLU:HG3	1.98	0.64
2:CJ:51:THR:HG21	2:CJ:243:ARG:HG2	1.79	0.64
2:CJ:207:GLU:HA	2:CJ:210:TYR:HB2	1.79	0.64
1:DK:257:LEU:HD11	1:DK:314:SER:HB2	1.79	0.64
2:FA:138:PHE:HE2	2:FA:235:VAL:HG21	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FE:180:ALA:HB3	2:FE:183:GLU:HB2	1.79	0.64
2:GC:372:GLN:OE1	2:GC:372:GLN:N	2.28	0.64
1:GD:404:ASP:HB3	66:5K:168:ARG:HH22	1.63	0.64
2:HA:265:ILE:HG22	2:HA:380:ASN:HD21	1.61	0.64
2:IE:213:THR:HG22	2:IE:217:LEU:HD12	1.78	0.64
1:IF:27:GLU:OE2	1:IF:318:ARG:NH2	2.30	0.64
1:IH:173:PRO:HA	1:IH:176:SER:HB3	1.79	0.64
1:IH:350:LYS:HZ3	2:II:180:ALA:HA	1.63	0.64
2:J:212:LEU:HD21	2:J:275:VAL:HG11	1.79	0.64
1:JE:236:VAL:HG13	1:JE:237:THR:HG23	1.78	0.64
1:KE:6:SER:HA	1:KE:134:GLN:HB3	1.78	0.64
1:KM:235:GLY:HA3	1:KM:366:THR:HG21	1.79	0.64
1:LG:187:LEU:HA	1:LG:190:HIS:HE1	1.62	0.64
1:LI:78:ALA:HB2	19:0r:284:PRO:HD3	1.76	0.64
2:LJ:53:PHE:HB3	2:LJ:61:HIS:HB3	1.80	0.64
1:LK:91:ILE:HD11	1:LK:119:VAL:HG11	1.78	0.64
1:LM:35:THR:HG21	45:2z:116:ALA:HB3	1.79	0.64
2:LN:338:LYS:HG2	2:LN:340:THR:HG22	1.79	0.64
1:M:8:GLN:HG2	1:M:17:GLY:HA3	1.79	0.64
1:MJ:65:LEU:HB3	1:MJ:73:MET:HE1	1.79	0.64
1:ND:323:THR:HA	1:ND:326:VAL:HG12	1.78	0.64
2:OI:219:ILE:HG23	2:OI:222:PRO:HG3	1.78	0.64
1:QI:247:ASN:N	2:QJ:11:GLN:HE22	1.96	0.64
2:SE:173:PRO:HB3	2:SE:183:GLU:HG2	1.78	0.64
2:TE:1:MET:HG3	2:TE:2:ARG:HG3	1.78	0.64
2:UE:392:ASP:HB3	2:UE:425:LEU:HD23	1.77	0.64
1:VJ:113:ILE:HG13	1:VJ:117:LEU:HD23	1.79	0.64
1:W:276:ARG:HH21	14:0c:327:VAL:HG21	1.62	0.64
1:WL:324:LYS:NZ	2:WM:222:PRO:O	2.31	0.64
3:XB:34:VAL:HG22	3:XB:49:ILE:HG23	1.79	0.64
7:0C:342:CYS:HA	38:2U:187:GLN:HE22	1.61	0.64
9:0O:43:ILE:HB	9:0O:57:PHE:HB2	1.80	0.64
26:1Q:347:CYS:O	26:1Q:352:ARG:NH2	2.30	0.64
37:2S:177:MET:SD	37:2S:208:ILE:HG13	2.36	0.64
57:3h:114:ASP:HB3	57:3h:118:ARG:HH12	1.62	0.64
1:A:324:LYS:HZ1	2:AA:222:PRO:HD2	1.62	0.64
1:AJ:173:PRO:HA	1:AJ:176:SER:HB2	1.78	0.64
1:BD:113:ILE:HG13	1:BD:117:LEU:HD23	1.78	0.64
1:BN:310:TYR:HD2	1:BN:341:PHE:HE1	1.43	0.64
2:CD:258:ASN:HD21	1:CE:178:THR:HA	1.63	0.64
1:CE:44:LEU:O	25:1O:704:GLN:NE2	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:237:THR:HG22	1:E:250:LEU:HD21	1.77	0.64
2:EA:191:THR:HG21	2:EA:425:LEU:HD13	1.79	0.64
2:EC:26:LEU:O	26:1Q:423:GLN:NE2	2.29	0.64
1:EL:200:MET:HB3	1:EL:268:MET:SD	2.38	0.64
1:FF:122:LYS:HE3	1:GF:291:GLN:HB3	1.78	0.64
1:FH:385:PHE:HE2	1:FH:412:GLU:HB2	1.63	0.64
1:G:207:LEU:HB3	1:G:225:LEU:HD22	1.78	0.64
1:GD:189:VAL:HA	1:GD:192:LEU:HD12	1.79	0.64
1:GJ:159:TYR:HB3	1:GJ:162:ARG:HG3	1.78	0.64
2:HA:180:ALA:HB3	2:HA:183:GLU:HG3	1.79	0.64
1:HH:102:ALA:HB1	1:HH:401:GLU:HB2	1.79	0.64
2:HI:224:TYR:O	2:HI:228:ASN:ND2	2.30	0.64
1:HJ:129:CYS:HB2	2:HK:96:LYS:HE2	1.79	0.64
1:IF:325:GLU:O	1:IF:329:GLN:NE2	2.30	0.64
2:IG:39:ASP:OD2	47:3D:265:ARG:NH2	2.26	0.64
1:JC:107:THR:OG1	1:JC:401:GLU:OE2	2.11	0.64
2:JH:423:GLU:OE1	60:3s:71:LYS:NZ	2.20	0.64
2:JJ:307:PRO:HB3	2:JJ:312:TYR:HE1	1.62	0.64
1:JM:347:ASN:ND2	2:JN:178:SER:O	2.30	0.64
2:KB:170:THR:HG21	2:KB:194:LEU:HD21	1.79	0.64
2:KB:212:LEU:HD21	2:KB:275:VAL:HG21	1.80	0.64
2:KL:209:ILE:HG12	2:KL:302:LEU:HD22	1.77	0.64
1:LE:246:LEU:HA	2:LF:11:GLN:HE22	1.61	0.64
1:LM:324:LYS:NZ	2:LN:221:ARG:HA	2.11	0.64
1:MB:156:ARG:NH2	1:MB:160:PRO:O	2.30	0.64
2:MG:174:SER:OG	2:MG:177:VAL:O	2.12	0.64
1:OD:322:SER:OG	2:OE:222:PRO:O	2.15	0.64
2:PA:174:SER:OG	2:PA:177:VAL:O	2.14	0.64
1:PF:345:ILE:HD12	2:PG:398:MET:HE2	1.80	0.64
2:Q:288:VAL:HB	2:Q:327:ASP:HB3	1.78	0.64
1:QK:308:GLY:HA3	1:QK:373:CYS:HB3	1.79	0.64
1:RE:324:LYS:HD2	2:RF:222:PRO:HD2	1.79	0.64
1:RI:320:ARG:HE	28:1Y:113:THR:HG22	1.61	0.64
2:RL:295:VAL:HG21	2:RL:375:VAL:HG13	1.79	0.64
1:S:66:MET:HE1	1:S:151:LEU:HD22	1.80	0.64
1:SD:66:MET:HE1	1:SD:151:LEU:HD22	1.79	0.64
1:SJ:165:MET:HE1	1:SJ:200:MET:HE3	1.79	0.64
2:TC:70:LEU:HB2	2:TC:98:ASP:HA	1.78	0.64
2:UK:113:GLU:OE2	62:4B:368:ASN:HB2	1.97	0.64
1:UL:19:LYS:NZ	1:UL:227:HIS:HB2	2.12	0.64
1:VJ:11:GLN:NE2	69:VJ:500:GDP:O1A	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:0L:512:ALA:HB2	9:0L:555:SER:HA	1.79	0.64
16:0l:281:GLU:HG3	16:0l:354:LEU:HD13	1.78	0.64
23:1B:328:LYS:HG3	44:2w:70:HIS:CD2	2.32	0.64
23:1E:74:LYS:HE3	23:1E:78:ARG:HH12	1.63	0.64
24:1J:531:ILE:HG22	24:1J:535:MET:HE2	1.78	0.64
24:1J:680:ILE:HD12	24:1J:696:MET:HE1	1.78	0.64
41:2p:469:LYS:NZ	41:2p:473:ASP:OD2	2.30	0.64
1:AJ:256:ASN:OD1	2:AK:101:ASN:ND2	2.31	0.64
2:AM:104:ALA:HB2	2:AM:413:MET:HE2	1.79	0.64
2:C:256:GLN:HE22	1:CA:397:TRP:HZ2	1.44	0.64
2:CJ:254:GLU:OE1	2:CJ:352:LYS:NZ	2.30	0.64
1:CK:372:THR:HG21	1:CK:426:GLN:HB2	1.80	0.64
2:CL:213:THR:HA	2:CL:217:LEU:HB2	1.80	0.64
1:F:207:LEU:HB3	1:F:225:LEU:HD22	1.79	0.64
1:FL:15:GLN:NE2	69:FL:500:GDP:O6	2.29	0.64
1:G:46:ARG:NH2	2:GA:73:THR:O	2.29	0.64
1:GL:186:THR:HG23	1:GL:187:LEU:HD12	1.78	0.64
1:HF:324:LYS:NZ	2:HG:213:THR:OG1	2.30	0.64
1:HL:309:ARG:HE	1:HL:342:ILE:HG22	1.63	0.64
1:I:268:MET:HE1	1:I:368:ILE:HG23	1.79	0.64
1:IB:268:MET:HE1	1:IB:368:ILE:HG23	1.79	0.64
1:KG:2:ARG:N	1:KG:129:CYS:O	2.30	0.64
2:KJ:120:ASP:OD1	2:KJ:123:ARG:NH2	2.31	0.64
1:LE:8:GLN:HG2	1:LE:17:GLY:HA3	1.79	0.64
1:LG:16:ILE:HD12	1:LG:229:VAL:HG21	1.78	0.64
1:LK:43:GLN:HE21	45:2z:79:LEU:CB	2.10	0.64
1:MF:224:ASP:OD1	26:1Q:19:SER:OG	2.15	0.64
1:MF:293:MET:HE2	1:MF:365:VAL:HG21	1.80	0.64
1:MF:359:LYS:NZ	54:3a:27:TYR:OH	2.29	0.64
2:MM:98:ASP:O	2:MM:105:ARG:NH1	2.30	0.64
2:MM:326:LYS:HZ3	1:MN:208:TYR:HA	1.62	0.64
1:NF:211:CYS:HB3	1:NF:220:PRO:HG3	1.78	0.64
1:NH:314:SER:HA	1:NH:350:LYS:HB3	1.79	0.64
1:NH:350:LYS:HZ3	2:NI:180:ALA:HA	1.62	0.64
1:NJ:323:THR:HG22	2:NK:223:SER:HA	1.78	0.64
2:NM:215:ARG:NH2	2:NM:299:ALA:O	2.31	0.64
2:OE:53:PHE:HB3	2:OE:61:HIS:HB3	1.78	0.64
2:OI:301:MET:HG2	2:OI:303:THR:H	1.62	0.64
1:OL:293:MET:HE1	1:OL:365:VAL:HG11	1.77	0.64
1:PD:129:CYS:SG	2:PE:96:LYS:HE3	2.38	0.64
2:PE:27:GLU:OE2	2:PE:243:ARG:NH2	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:180:ALA:HB3	2:Q:183:GLU:HB2	1.79	0.64
1:QE:163:ILE:HD11	1:QE:251:ARG:HE	1.62	0.64
1:QG:172:SER:OG	1:QG:203:ASP:OD1	2.15	0.64
2:QH:319:TYR:HB3	2:QH:323:VAL:HG21	1.78	0.64
2:RF:270:THR:HG23	2:RF:302:LEU:HB2	1.78	0.64
2:RL:18:ASN:ND2	28:1Y:146:LYS:HD2	2.13	0.64
2:SA:67:PHE:HB2	2:SA:92:LEU:HD12	1.80	0.64
1:SF:187:LEU:HA	1:SF:190:HIS:CE1	2.32	0.64
2:TI:217:LEU:HD21	2:TI:368:LEU:HD23	1.78	0.64
2:UA:273:ALA:HB3	2:UA:295:VAL:HG22	1.79	0.64
1:UD:251:ARG:NH1	2:UE:97:GLU:OE2	2.31	0.64
2:UI:271:SER:HB3	2:UI:301:MET:HG3	1.79	0.64
2:VE:177:VAL:N	2:VE:207:GLU:OE2	2.27	0.64
2:VG:386:GLU:OE2	2:VG:390:ARG:NH1	2.29	0.64
2:VM:165:SER:HB2	2:VM:256:GLN:HE22	1.61	0.64
2:WA:259:LEU:HD21	2:WA:268:VAL:HG11	1.77	0.64
1:WB:379:ARG:O	1:WB:383:GLU:HG3	1.97	0.64
1:WF:324:LYS:HZ1	2:WG:210:TYR:HB3	1.59	0.64
1:WH:246:LEU:HA	2:WI:11:GLN:HE22	1.60	0.64
9:0M:576:VAL:HB	9:0M:586:ALA:HB3	1.78	0.64
16:0k:296:THR:HA	16:0k:346:PRO:HA	1.79	0.64
26:1Q:94:THR:HG22	26:1Q:107:VAL:HG22	1.79	0.64
27:1S:16:HIS:HA	29:1k:163:TYR:CE1	2.31	0.64
29:1k:188:GLU:OE1	29:1k:209:HIS:NE2	2.31	0.64
46:3B:85:GLU:OE1	46:3B:87:HIS:NE2	2.29	0.64
64:5D:93:LYS:HB3	65:5I:83:TYR:OH	1.97	0.64
68:5T:115:LEU:HD13	68:5T:149:PHE:HE2	1.61	0.64
1:AB:11:GLN:HA	1:AB:72:THR:HG21	1.80	0.64
1:AB:318:ARG:HB3	1:AB:357:PRO:HA	1.80	0.64
1:AL:316:LEU:HD23	1:AL:352:SER:HB2	1.80	0.64
1:BB:293:MET:HE3	1:BB:367:PHE:HD1	1.62	0.64
2:BE:317:LEU:C	2:BE:318:MET:HE2	2.22	0.64
1:CE:301:GLN:HE22	1:CE:303:ALA:HB3	1.63	0.64
1:CM:60:VAL:HG11	1:CM:86:ARG:HG3	1.79	0.64
1:DA:130:LEU:HB3	1:DA:162:ARG:HE	1.62	0.64
2:DL:229:ARG:HD3	2:DL:363:VAL:HG21	1.78	0.64
1:F:267:MET:SD	1:F:301:GLN:NE2	2.70	0.64
1:FF:235:GLY:HA3	1:FF:366:THR:HG21	1.79	0.64
2:FG:219:ILE:HG13	2:FG:222:PRO:HG3	1.79	0.64
2:GA:319:TYR:HB2	2:GA:355:ILE:HG22	1.80	0.64
1:GH:242:PHE:HB3	1:GH:356:ILE:HD13	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GI:270:THR:HG23	2:GI:302:LEU:HB2	1.78	0.64
1:HB:66:MET:HE1	1:HB:151:LEU:HD22	1.80	0.64
1:HJ:45:GLU:HG2	1:HJ:46:ARG:HG2	1.78	0.64
2:II:108:TYR:O	2:II:112:LYS:NZ	2.28	0.64
1:IL:230:ALA:HA	1:IL:233:MET:HB2	1.79	0.64
1:JA:83:GLN:NE2	1:KA:281:TYR:OH	2.31	0.64
1:JE:173:PRO:HA	1:JE:176:SER:HB2	1.79	0.64
1:KC:198:GLU:HA	1:KC:264:HIS:HB2	1.79	0.64
2:KL:71:GLU:HB3	2:KL:98:ASP:HB2	1.79	0.64
2:KL:155:GLU:OE1	31:1s:20:HIS:NE2	2.30	0.64
1:LG:213:ARG:HH12	45:2y:379:ILE:HG12	1.62	0.64
2:LL:69:ASP:OD2	2:LL:70:LEU:N	2.30	0.64
2:LL:70:LEU:HD21	2:LL:149:LEU:HD13	1.80	0.64
1:MJ:276:ARG:HA	1:MJ:279:GLN:HE21	1.62	0.64
1:ND:11:GLN:NE2	69:ND:500:GDP:O1A	2.30	0.64
1:ND:209:ASP:OD1	1:ND:213:ARG:NE	2.31	0.64
1:NF:346:PRO:O	2:NG:394:LYS:NZ	2.31	0.64
1:NH:347:ASN:ND2	2:NI:178:SER:OG	2.28	0.64
1:OF:164:MET:HB2	1:OF:197:ASP:H	1.61	0.64
2:OK:261:PRO:HG2	2:OK:313:MET:HE2	1.79	0.64
2:PG:57:GLY:C	41:2h:186:ARG:HH12	2.05	0.64
2:QF:212:LEU:HD21	2:QF:275:VAL:HG21	1.78	0.64
2:QJ:269:LEU:HD22	2:QJ:303:THR:HG21	1.79	0.64
1:QK:42:LEU:HB2	28:1b:217:PHE:CD2	2.33	0.64
1:QK:306:ARG:HA	1:QK:340:TYR:HE1	1.62	0.64
2:QL:138:PHE:HE2	2:QL:235:VAL:HG11	1.63	0.64
2:R:224:TYR:HA	2:R:227:VAL:HG22	1.78	0.64
1:RG:272:PRO:HD2	1:RG:361:LEU:HD21	1.78	0.64
2:RH:439:SER:O	57:3g:98:LYS:NZ	2.30	0.64
1:SB:130:LEU:O	1:SB:162:ARG:NH1	2.31	0.64
2:SC:339:ARG:HH12	55:3b:144:PRO:HD3	1.62	0.64
2:SK:234:VAL:HG21	2:SK:302:LEU:HD21	1.79	0.64
1:UH:22:GLU:HG3	1:UH:81:TYR:CD1	2.33	0.64
2:WA:209:ILE:HG23	2:WA:230:LEU:HD23	1.79	0.64
1:WD:213:ARG:HG3	1:WD:297:LYS:HE2	1.78	0.64
1:WF:5:VAL:HG23	1:WF:62:ARG:HG2	1.80	0.64
1:WF:58:ARG:NH2	1:WF:83:GLN:O	2.31	0.64
10:0S:253:GLU:O	10:0S:257:GLN:NE2	2.29	0.64
24:1H:528:ILE:HA	24:1H:531:ILE:HD12	1.79	0.64
24:1I:344:ARG:HB2	24:1I:347:ASN:HB2	1.78	0.64
27:1T:621:ILE:HG23	27:1T:695:TRP:HZ2	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2B:32:SER:O	32:2B:37:LYS:NZ	2.30	0.64
34:2L:238:PRO:HG2	34:2L:241:GLU:HB2	1.79	0.64
48:3M:430:ASN:HA	48:3M:433:ARG:HE	1.60	0.64
49:3Q:358:ARG:NH1	52:3U:396:GLU:OE1	2.30	0.64
64:5C:107:GLU:HA	64:5C:110:PHE:CE1	2.33	0.64
1:AJ:203:ASP:HB3	1:AJ:301:GLN:HA	1.79	0.64
2:AK:180:ALA:HB3	2:AK:183:GLU:HB2	1.79	0.64
2:BC:285:GLN:HE22	2:BC:287:SER:HB2	1.62	0.64
1:BD:290:THR:HA	1:BD:293:MET:HE3	1.80	0.64
1:BD:362:LYS:HZ1	27:1S:131:GLU:N	1.96	0.64
1:BF:252:LYS:NZ	71:BG:501:GTP:O1B	2.31	0.64
1:CC:330:MET:HE3	1:CC:349:ILE:HG21	1.79	0.64
2:CD:174:SER:OG	2:CD:177:VAL:O	2.14	0.64
1:CE:51:PHE:HB3	1:CE:59:TYR:HB3	1.80	0.64
1:CI:362:LYS:HG3	16:0l:660:LEU:HD11	1.78	0.64
1:DI:173:PRO:HG3	1:DI:384:GLN:HE22	1.62	0.64
2:EI:203:MET:HA	2:EI:203:MET:HE3	1.80	0.64
2:FG:301:MET:HG3	2:FG:303:THR:H	1.63	0.64
1:FH:137:HIS:NE2	1:FH:166:THR:OG1	2.30	0.64
1:FJ:36:TYR:CD1	1:FJ:36:TYR:CZ	2.84	0.64
1:G:7:CYS:HB3	1:G:66:MET:HE1	1.78	0.64
2:HA:3:GLU:HG2	2:HA:132:LEU:HA	1.78	0.64
1:HL:217:LEU:HD12	1:HL:220:PRO:HB3	1.80	0.64
2:IE:88:ASN:OD1	2:IE:89:PRO:HD2	1.97	0.64
1:JC:311:LEU:HD23	1:JC:342:ILE:HD13	1.80	0.64
1:JI:156:ARG:NH2	1:JI:197:ASP:OD1	2.31	0.64
1:JI:207:LEU:HD13	1:JI:228:LEU:HD23	1.80	0.64
1:KA:200:MET:HG3	1:KA:266:PHE:HB2	1.80	0.64
1:KE:10:GLY:O	1:KE:14:ASN:ND2	2.30	0.64
1:KE:22:GLU:HG2	1:KE:81:TYR:HD2	1.61	0.64
2:KJ:3:GLU:HA	2:KJ:51:THR:HA	1.80	0.64
2:KN:335:ILE:HG23	2:KN:341:ILE:HD11	1.79	0.64
1:LC:172:SER:OG	1:LC:174:ARG:NH2	2.29	0.64
1:LE:150:LEU:O	1:LE:154:LYS:HG2	1.98	0.64
2:LF:33:ASP:OD2	2:LF:35:SER:OG	2.14	0.64
1:LM:152:ILE:HG22	1:LM:195:ASN:HB3	1.79	0.64
2:MG:294:SER:HA	2:MG:297:GLU:HG2	1.78	0.64
1:MH:207:LEU:HD21	1:MH:300:MET:HE3	1.80	0.64
1:MJ:202:ILE:HD12	1:MJ:300:MET:HE2	1.79	0.64
1:ML:66:MET:HE3	1:ML:147:MET:HE2	1.78	0.64
1:ML:257:LEU:HD13	1:ML:368:ILE:HG21	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NC:26:LEU:HD13	2:NC:363:VAL:HG12	1.80	0.64
1:NH:21:TRP:CE2	1:NH:61:PRO:HB3	2.33	0.64
1:NL:46:ARG:NH2	2:NM:76:ASP:OD2	2.30	0.64
2:OI:265:ILE:HG22	2:OI:380:ASN:HD21	1.62	0.64
1:OJ:203:ASP:OD2	1:OJ:301:GLN:NE2	2.31	0.64
2:PA:11:GLN:HG2	2:PA:74:VAL:HG11	1.79	0.64
2:PK:215:ARG:NH2	2:PK:299:ALA:O	2.30	0.64
2:PM:154:LEU:HD13	2:PM:166:LYS:HZ3	1.61	0.64
2:Q:238:LEU:HA	2:Q:318:MET:HG3	1.77	0.64
2:QB:329:ASN:HD21	1:QC:175:VAL:HG13	1.62	0.64
2:QD:265:ILE:HG22	2:QD:380:ASN:HD21	1.62	0.64
1:QI:66:MET:HE3	1:QI:147:MET:HE2	1.78	0.64
1:RG:211:CYS:HB3	1:RG:220:PRO:HG3	1.80	0.64
1:SB:290:THR:HA	1:SB:293:MET:HE3	1.78	0.64
2:SG:180:ALA:HB3	2:SG:183:GLU:HB2	1.77	0.64
1:TB:46:ARG:HH12	2:TC:73:THR:HG22	1.63	0.64
2:TK:308:ARG:HG2	61:3x:107:ILE:HG13	1.80	0.64
2:TK:338:LYS:HA	61:3x:110:PHE:HE1	1.62	0.64
1:U:165:MET:HE2	1:U:167:PHE:HE1	1.63	0.64
2:WK:27:GLU:OE1	2:WK:243:ARG:NH2	2.31	0.64
2:WM:122:ILE:HG21	2:WM:157:LEU:HD11	1.79	0.64
13:0Z:154:VAL:HG13	32:2C:202:GLY:HA3	1.79	0.64
49:3P:510:PRO:HG2	49:3P:527:SER:HB2	1.79	0.64
49:3Q:424:MET:HE1	49:3Q:467:VAL:HG11	1.79	0.64
1:AB:167:PHE:CE2	1:AB:233:MET:HG2	2.32	0.64
1:AH:234:SER:O	1:AH:241:ARG:NH2	2.31	0.64
1:AH:269:GLY:HA3	1:AH:367:PHE:HB3	1.79	0.64
2:BM:271:SER:HA	2:BM:302:LEU:HD23	1.80	0.64
1:BN:379:ARG:O	1:BN:383:GLU:HG3	1.98	0.64
1:CC:324:LYS:HZ1	2:CD:221:ARG:HA	1.61	0.64
1:CE:324:LYS:HZ1	2:CF:222:PRO:HG2	1.63	0.64
1:CI:324:LYS:NZ	2:CJ:210:TYR:HB3	2.12	0.64
2:CJ:55:GLU:O	2:DJ:285:GLN:NE2	2.30	0.64
2:DB:253:THR:HA	2:DB:256:GLN:HG2	1.80	0.64
1:DC:87:PRO:HD3	1:EB:281:TYR:HD2	1.61	0.64
1:DG:322:SER:OG	2:DH:222:PRO:O	2.16	0.64
1:E:350:LYS:HD2	2:EA:179:THR:HG22	1.80	0.64
1:EB:396:HIS:HA	1:EB:399:THR:HG22	1.78	0.64
2:EG:217:LEU:HD21	2:EG:275:VAL:HG22	1.79	0.64
2:EG:254:GLU:O	2:EG:258:ASN:ND2	2.30	0.64
1:F:163:ILE:HG21	1:F:250:LEU:HB3	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FA:195:LEU:HD21	2:FA:428:LEU:HD21	1.79	0.64
2:FE:53:PHE:HB3	2:FE:61:HIS:HB3	1.80	0.64
1:G:260:PHE:HB2	1:G:263:LEU:HD12	1.80	0.64
1:GB:268:MET:HE3	1:GB:268:MET:HA	1.79	0.64
2:HI:174:SER:OG	2:HI:177:VAL:O	2.15	0.64
1:JA:322:SER:HB2	2:JB:223:SER:HB2	1.79	0.64
1:JC:34:GLY:HA3	1:JC:58:ARG:HG3	1.78	0.64
1:JI:91:ILE:HD11	1:JI:119:VAL:HG21	1.80	0.64
1:JK:207:LEU:HB3	1:JK:225:LEU:HG	1.78	0.64
1:JM:377:MET:HA	1:JM:380:ARG:HG2	1.78	0.64
1:KM:274:THR:HG21	1:KM:282:ARG:HD2	1.80	0.64
2:L:213:THR:HA	2:L:217:LEU:HD23	1.78	0.64
1:LM:226:ASN:OD1	69:LM:500:GDP:N1	2.30	0.64
1:MB:286:VAL:HA	1:MB:289:LEU:HB2	1.78	0.64
1:MD:290:THR:HG21	1:MD:329:GLN:HB3	1.78	0.64
1:MH:256:ASN:HD21	2:MI:101:ASN:HD22	1.45	0.64
1:PB:217:LEU:HB2	1:PB:220:PRO:HG3	1.79	0.64
1:QA:2:ARG:N	1:QA:129:CYS:SG	2.69	0.64
1:QC:329:GLN:NE2	59:4a:196:VAL:O	2.29	0.64
1:QG:299:MET:O	39:2X:7:ARG:NH2	2.31	0.64
1:RI:286:VAL:HG11	1:RI:325:GLU:HB3	1.78	0.64
2:RJ:64:ARG:NH1	2:RJ:129:CYS:SG	2.70	0.64
1:S:347:ASN:ND2	2:SA:178:SER:OG	2.30	0.64
2:SE:57:GLY:O	21:0w:268:ARG:NH2	2.31	0.64
2:SI:278:ALA:HB2	41:2c:316:GLU:CD	2.22	0.64
1:SJ:178:THR:HB	1:SJ:181:GLU:HG3	1.79	0.64
1:SJ:245:GLN:NE2	1:SJ:321:MET:O	2.30	0.64
2:TC:296:PHE:HE1	2:TC:317:LEU:HD21	1.62	0.64
1:TL:12:CYS:HG	1:TL:138:SER:HG	1.44	0.64
2:UA:328:VAL:HG21	2:UA:355:ILE:HD11	1.79	0.64
2:VC:313:MET:HE3	2:VC:380:ASN:HB3	1.78	0.64
2:WA:196:GLU:O	2:WA:197:HIS:ND1	2.30	0.64
2:WE:68:LEU:HD21	2:WE:118:ALA:HB2	1.78	0.64
6:0A:32:LEU:HD11	14:0d:211:ALA:HB1	1.80	0.64
9:0M:92:ILE:HD13	9:0M:139:VAL:HG13	1.80	0.64
22:0z:65:THR:HG22	22:0z:67:ASN:H	1.63	0.64
27:1S:182:GLN:HB3	27:1S:196:PHE:HE2	1.63	0.64
27:1T:722:LEU:HD12	27:1T:723:LYS:HD3	1.78	0.64
32:2B:255:THR:HG22	32:2B:256:LYS:H	1.61	0.64
37:2S:164:PHE:HE1	37:2S:167:ARG:HG3	1.61	0.64
40:2Z:38:ASP:OD1	40:2Z:79:TYR:OH	2.15	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:2c:458:LEU:O	41:2c:462:GLU:HG2	1.97	0.64
64:5C:238:LEU:O	64:5C:242:HIS:ND1	2.29	0.64
2:AA:9:ILE:HD13	2:AA:150:GLY:HA2	1.80	0.64
1:AD:326:VAL:HG11	1:AD:353:ILE:HD11	1.78	0.64
1:BD:68:LEU:HD12	1:BD:97:ALA:HA	1.79	0.64
2:DD:262:TYR:HB2	2:DD:265:ILE:HG12	1.80	0.64
1:DK:236:VAL:HG13	1:DK:237:THR:HG23	1.79	0.64
2:EA:177:VAL:HB	2:EA:207:GLU:HG3	1.80	0.64
1:EB:200:MET:HG3	1:EB:266:PHE:HB2	1.79	0.64
2:FC:180:ALA:HB3	2:FC:183:GLU:HB2	1.79	0.64
1:FD:122:LYS:HD3	1:GD:291:GLN:HE21	1.62	0.64
1:FD:139:LEU:HG	1:FD:168:SER:HB2	1.80	0.64
1:FD:163:ILE:HG21	1:FD:250:LEU:HB3	1.80	0.64
1:FJ:424:GLN:O	1:FJ:428:ALA:HB2	1.98	0.64
1:GD:347:ASN:ND2	2:GE:178:SER:O	2.30	0.64
1:GJ:268:MET:HE1	1:GJ:368:ILE:HD13	1.79	0.64
2:HA:315:CYS:HB3	2:HA:377:MET:HE1	1.79	0.64
2:HC:60:LYS:HD2	38:2U:215:LEU:HD11	1.80	0.64
2:IA:352:LYS:HZ1	1:IB:178:THR:HG23	1.63	0.64
2:IE:228:ASN:OD1	71:IE:501:GTP:N1	2.29	0.64
1:IH:5:VAL:HG23	1:IH:62:ARG:HG2	1.80	0.64
2:II:91:GLN:H	2:II:121:ARG:HE	1.43	0.64
1:JG:413:SER:OG	60:3s:46:ARG:CZ	2.46	0.64
1:KK:156:ARG:NH2	1:KK:197:ASP:OD1	2.30	0.64
2:KN:141:VAL:HG11	2:KN:194:LEU:HD11	1.80	0.64
1:LI:173:PRO:HG3	1:LI:380:ARG:HD2	1.79	0.64
1:LI:337:ASN:HD21	35:2O:82:ASP:H	1.46	0.64
2:LJ:434:GLU:OE2	22:0z:148:PHE:CD2	2.51	0.64
2:MC:33:ASP:O	2:MC:60:LYS:NZ	2.31	0.64
2:MC:313:MET:HE2	2:MC:382:THR:HG22	1.80	0.64
2:MM:2:ARG:HG2	2:MM:51:THR:HG22	1.79	0.64
2:MM:274:PRO:HG2	2:MM:371:VAL:HG11	1.80	0.64
1:N:421:GLU:OE1	1:N:424:GLN:NE2	2.30	0.64
1:NF:324:LYS:HZ1	2:NG:222:PRO:HG2	1.62	0.64
1:NL:322:SER:OG	1:NL:325:GLU:OE1	2.12	0.64
1:O:234:SER:O	1:O:241:ARG:NH2	2.31	0.64
1:OD:60:VAL:HG11	1:OD:86:ARG:HE	1.61	0.64
2:OK:229:ARG:NH2	28:1h:117:ASP:O	2.31	0.64
2:PG:40:LYS:HG3	2:PG:43:GLY:H	1.63	0.64
1:QC:139:LEU:HD12	1:QC:185:THR:HA	1.79	0.64
2:QJ:180:ALA:HB3	2:QJ:183:GLU:HB3	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QL:278:ALA:O	41:2i:368:HIS:NE2	2.30	0.64
2:RD:9:ILE:HD13	2:RD:150:GLY:HA2	1.78	0.64
1:RE:268:MET:HE1	1:RE:368:ILE:HG23	1.79	0.64
2:SA:212:LEU:HD21	2:SA:275:VAL:HG11	1.79	0.64
2:SK:240:ALA:HA	2:SK:243:ARG:HD3	1.78	0.64
2:SK:388:PHE:HA	2:SK:391:ILE:HG12	1.80	0.64
2:SK:390:ARG:HH11	2:SK:391:ILE:HG22	1.61	0.64
1:TB:284:LEU:HD23	1:TB:362:LYS:HB3	1.78	0.64
1:TH:189:VAL:HG21	1:TH:415:MET:SD	2.37	0.64
1:UB:375:GLN:NE2	1:UB:426:GLN:OE1	2.31	0.64
2:VA:419:SER:O	2:VA:423:GLU:HG3	1.97	0.64
2:VE:180:ALA:HB3	2:VE:183:GLU:HB2	1.80	0.64
2:WC:237:SER:HA	2:WC:320:ARG:HD2	1.80	0.64
1:WD:375:GLN:NE2	1:WD:426:GLN:OE1	2.28	0.64
2:WG:81:GLY:O	2:WG:84:ARG:NH1	2.30	0.64
1:WH:19:LYS:HD2	1:WH:226:ASN:HB2	1.78	0.64
17:0n:359:GLN:NE2	17:0n:363:GLU:OE2	2.31	0.64
27:1S:364:ILE:HG13	27:1S:367:ALA:HB2	1.80	0.64
31:1s:158:LEU:HG	31:1s:162:MET:HE2	1.79	0.64
45:2y:323:LEU:HD22	45:2y:327:GLN:HB3	1.79	0.64
64:5B:114:GLU:O	65:5G:108:ARG:NH2	2.30	0.64
66:5K:158:VAL:HB	66:5K:165:MET:HB3	1.79	0.64
1:AH:322:SER:HB3	2:AI:221:ARG:CZ	2.28	0.64
2:BG:258:ASN:HD21	1:BH:99:ASN:HD22	1.45	0.64
1:BN:163:ILE:HG21	1:BN:250:LEU:HB3	1.80	0.64
1:CA:32:PRO:HG2	24:1H:352:TYR:HB3	1.80	0.64
2:CD:27:GLU:OE1	2:CD:243:ARG:NH2	2.31	0.64
2:CF:51:THR:HG21	2:CF:243:ARG:HG2	1.79	0.64
1:CI:32:PRO:HG2	24:1I:352:TYR:HB3	1.79	0.64
1:CI:139:LEU:HD12	1:CI:170:ILE:HG13	1.80	0.64
2:DH:88:ASN:ND2	2:EG:284:GLU:OE2	2.26	0.64
2:DH:254:GLU:HA	1:DI:98:GLY:HA2	1.79	0.64
1:EF:324:LYS:NZ	2:EG:210:TYR:HB3	2.12	0.64
2:EG:254:GLU:HA	1:EH:98:GLY:HA2	1.80	0.64
1:EJ:257:LEU:O	1:EJ:370:ASN:ND2	2.31	0.64
2:EK:70:LEU:HB3	2:EK:98:ASP:HA	1.80	0.64
2:FG:71:GLU:HB3	2:FG:98:ASP:HB3	1.79	0.64
2:FI:104:ALA:HB2	2:FI:413:MET:HE3	1.78	0.64
1:GF:91:ILE:HD11	1:GF:119:VAL:HG21	1.80	0.64
2:GG:253:THR:HA	2:GG:256:GLN:HG2	1.78	0.64
1:GH:19:LYS:HD3	1:GH:22:GLU:OE2	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GI:273:ALA:HB3	2:GI:295:VAL:HG23	1.79	0.64
1:H:62:ARG:NH1	1:H:127:CYS:SG	2.70	0.64
2:IC:318:MET:HA	2:IC:318:MET:HE3	1.80	0.64
1:ID:131:GLN:HE22	1:ID:250:LEU:HB2	1.63	0.64
1:IH:132:GLY:HA2	1:IH:162:ARG:HB3	1.79	0.64
1:IJ:152:ILE:HG22	1:IJ:195:ASN:HB3	1.79	0.64
2:J:84:ARG:NH1	2:J:85:GLN:OE1	2.29	0.64
2:J:109:THR:HG21	2:J:411:GLU:HG3	1.79	0.64
2:JF:238:LEU:HD11	2:JF:378:ILE:HG13	1.78	0.64
1:JG:86:ARG:HH12	1:KG:282:ARG:HA	1.63	0.64
2:JH:177:VAL:N	2:JH:207:GLU:OE2	2.28	0.64
1:KA:324:LYS:HE2	2:KB:222:PRO:HG2	1.78	0.64
1:KC:173:PRO:HB2	1:KC:174:ARG:NH2	2.13	0.64
1:KG:319:GLY:HA2	1:KG:357:PRO:HG3	1.79	0.64
2:KH:392:ASP:OD1	2:KH:393:HIS:N	2.30	0.64
2:LH:203:MET:HG3	2:LH:384:ILE:HD11	1.80	0.64
1:LI:27:GLU:HA	1:LI:359:LYS:HZ1	1.63	0.64
2:LJ:325:PRO:HA	2:LJ:328:VAL:HG22	1.79	0.64
2:LL:1:MET:SD	1:LM:94:GLN:NE2	2.71	0.64
2:MC:419:SER:O	2:MC:423:GLU:HG3	1.98	0.64
2:MK:32:PRO:O	2:MK:85:GLN:NE2	2.31	0.64
1:ND:11:GLN:HA	1:ND:72:THR:HG21	1.80	0.64
2:NG:64:ARG:HH21	2:NG:129:CYS:HB3	1.63	0.64
2:OA:326:LYS:HA	2:OA:329:ASN:OD1	1.98	0.64
1:OJ:139:LEU:HB2	1:OJ:170:ILE:HG22	1.78	0.64
2:PC:212:LEU:HD21	2:PC:275:VAL:HG11	1.79	0.64
1:PD:43:GLN:NE2	28:1d:142:TYR:OH	2.28	0.64
1:PJ:322:SER:OG	2:PK:222:PRO:O	2.15	0.64
1:PL:167:PHE:CE2	1:PL:233:MET:HG3	2.32	0.64
1:QK:138:SER:HA	1:QK:169:VAL:HB	1.80	0.64
1:QK:214:THR:OG1	1:QK:297:LYS:NZ	2.30	0.64
2:R:167:LEU:HD13	2:R:252:LEU:HD12	1.79	0.64
1:RG:58:ARG:NH2	1:RG:83:GLN:O	2.29	0.64
1:RK:60:VAL:HG11	1:RK:86:ARG:HG3	1.78	0.64
2:SA:241:SER:HA	2:SA:356:ASN:HD21	1.62	0.64
2:TE:308:ARG:NH2	61:3w:241:GLU:O	2.30	0.64
1:UH:314:SER:HB3	1:UH:368:ILE:HB	1.78	0.64
1:V:67:ASP:OD1	1:V:68:LEU:N	2.29	0.64
1:VB:246:LEU:HA	2:VC:11:GLN:HE22	1.62	0.64
2:VC:402:ARG:HD3	2:VC:405:VAL:HG21	1.80	0.64
1:WH:236:VAL:HG13	1:WH:237:THR:HG23	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:WI:173:PRO:HG3	2:WI:183:GLU:HG2	1.79	0.64
8:0F:131:MET:HB3	8:0G:458:LYS:HG3	1.80	0.64
9:0M:218:THR:OG1	9:0M:222:ASP:OD1	2.15	0.64
9:0M:566:VAL:HG22	9:0M:576:VAL:HG22	1.80	0.64
12:0W:163:LYS:NZ	43:2t:199:ASP:OD2	2.30	0.64
28:1d:256:VAL:HG22	28:1e:17:THR:HG23	1.80	0.64
22:1w:240:LEU:HA	22:1w:243:VAL:HG12	1.79	0.64
22:1x:182:LEU:O	22:1x:186:ILE:HD12	1.98	0.64
43:2t:307:THR:N	43:2t:310:GLU:OE2	2.31	0.64
44:2w:55:GLU:HG2	44:2w:71:PHE:HB2	1.80	0.64
57:3f:86:ARG:NH1	57:3f:87:LYS:HG2	2.13	0.64
60:3s:87:PRO:O	60:3s:89:ARG:NH1	2.29	0.64
2:BA:301:MET:HG3	2:BA:303:THR:H	1.62	0.64
1:BD:347:ASN:ND2	2:BE:178:SER:OG	2.24	0.64
2:BE:212:LEU:HD21	2:BE:275:VAL:HG21	1.78	0.64
1:CA:301:GLN:HE22	1:CA:303:ALA:HB2	1.62	0.64
1:CI:67:ASP:HA	1:CI:143:THR:HG21	1.80	0.64
2:DB:335:ILE:HG23	2:DB:341:ILE:HD11	1.80	0.64
2:DH:98:ASP:O	2:DH:105:ARG:NH2	2.31	0.64
2:DJ:7:ILE:HB	2:DJ:137:VAL:HG12	1.78	0.64
2:EG:180:ALA:HB3	2:EG:183:GLU:HB2	1.80	0.64
1:EL:236:VAL:HG13	1:EL:237:THR:HG23	1.80	0.64
2:FA:226:ASN:ND2	2:FA:367:ASP:OD2	2.30	0.64
1:FB:286:VAL:HG11	1:FB:325:GLU:HB3	1.79	0.64
1:FD:336:LYS:NZ	63:4I:314:LYS:HD3	2.12	0.64
1:FL:45:GLU:OE2	1:FL:46:ARG:NH2	2.31	0.64
2:GC:271:SER:HB3	2:GC:301:MET:HA	1.79	0.64
1:GJ:27:GLU:HA	1:GJ:359:LYS:HE2	1.80	0.64
1:GJ:311:LEU:HA	1:GJ:342:ILE:HD12	1.80	0.64
2:IA:244:PHE:O	2:IA:356:ASN:ND2	2.29	0.64
1:IJ:66:MET:HE1	1:IJ:151:LEU:HD22	1.79	0.64
1:KA:164:MET:HB3	1:KA:197:ASP:H	1.63	0.64
1:LG:3:GLU:HB2	1:LG:130:LEU:HA	1.79	0.64
2:LH:67:PHE:HB2	2:LH:92:LEU:HD12	1.80	0.64
2:LH:152:LEU:O	2:LH:156:ARG:HG2	1.98	0.64
2:LN:209:ILE:HG12	2:LN:302:LEU:HD22	1.79	0.64
2:ME:155:GLU:HG2	2:ME:197:HIS:CD2	2.33	0.64
2:MK:11:GLN:HG3	2:MK:74:VAL:HG11	1.78	0.64
1:MN:204:ASN:OD1	69:MN:500:GDP:O2'	2.16	0.64
1:NF:323:THR:HA	1:NF:326:VAL:HG12	1.79	0.64
2:NG:269:LEU:HD11	2:NG:305:CYS:HB3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OA:244:PHE:HB2	2:OA:356:ASN:HD21	1.63	0.64
2:OE:91:GLN:H	2:OE:121:ARG:HD2	1.63	0.64
2:OM:212:LEU:HD21	2:OM:275:VAL:HG11	1.79	0.64
1:PH:11:GLN:HA	1:PH:72:THR:HG21	1.78	0.64
1:QC:311:LEU:HD23	1:QC:342:ILE:HD13	1.79	0.64
1:RA:8:GLN:HG2	1:RA:17:GLY:HA3	1.80	0.64
1:RA:350:LYS:NZ	1:RA:352:SER:OG	2.30	0.64
2:RH:11:GLN:O	2:RH:15:GLN:HG2	1.98	0.64
2:RJ:195:LEU:HD22	2:RJ:428:LEU:HD12	1.79	0.64
2:SI:26:LEU:HD12	2:SI:363:VAL:HG12	1.80	0.64
2:TC:33:ASP:O	2:TC:60:LYS:NZ	2.31	0.64
2:TG:75:VAL:HG21	2:TG:94:SER:HB2	1.80	0.64
1:TL:421:GLU:HA	1:TL:424:GLN:HG2	1.79	0.64
2:UK:209:ILE:HD13	2:UK:302:LEU:HD22	1.78	0.64
1:UL:171:PRO:HB2	1:UL:181:GLU:OE1	1.98	0.64
1:VF:322:SER:HB2	2:VG:223:SER:HB2	1.79	0.64
2:WI:335:ILE:HG23	2:WI:341:ILE:HD11	1.78	0.64
1:WJ:377:MET:HA	1:WJ:380:ARG:HH12	1.63	0.64
1:WL:150:LEU:HD21	1:WL:154:LYS:HE2	1.80	0.64
3:X:90:GLU:OE2	3:X:104:ARG:NH2	2.30	0.64
5:XN:216:LEU:HB3	5:XN:255:VAL:HG21	1.79	0.64
8:0G:272:GLU:OE2	8:0G:275:ARG:NH2	2.31	0.64
9:0L:61:ASN:OD1	9:0L:80:GLN:NE2	2.30	0.64
9:0L:173:VAL:HA	9:0L:201:SER:HB2	1.80	0.64
9:0N:381:ILE:HG13	9:0N:395:PRO:HG3	1.80	0.64
16:0l:893:ALA:HB1	16:0l:953:LEU:HD11	1.79	0.64
27:1S:70:ASN:HD22	27:1S:70:ASN:C	2.06	0.64
33:2H:75:ALA:HA	33:2H:103:MET:HE1	1.80	0.64
40:2Z:249:TYR:OH	40:2Z:270:TRP:NE1	2.31	0.64
57:3i:90:GLU:O	57:3i:94:ARG:NH1	2.30	0.64
28:4W:159:GLN:OE1	28:4W:161:ARG:NH1	2.30	0.64
1:CM:309:ARG:O	1:CM:372:THR:N	2.25	0.63
1:DA:322:SER:OG	2:DB:222:PRO:O	2.14	0.63
1:E:379:ARG:O	1:E:383:GLU:HG3	1.98	0.63
1:EH:20:PHE:HB2	1:EH:233:MET:HE3	1.81	0.63
2:EI:195:LEU:HD22	2:EI:428:LEU:HD12	1.79	0.63
1:EL:67:ASP:OD2	1:EL:72:THR:OG1	2.16	0.63
1:FB:247:ASN:OD1	2:FC:11:GLN:NE2	2.31	0.63
1:FB:392:LYS:HE2	1:FB:395:LEU:HD12	1.79	0.63
2:FE:387:VAL:HG12	2:FE:390:ARG:HH21	1.63	0.63
1:FL:207:LEU:HB3	1:FL:225:LEU:HD22	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GA:87:PHE:HB3	2:GA:92:LEU:HD22	1.79	0.63
1:GF:203:ASP:HB2	1:GF:301:GLN:NE2	2.13	0.63
1:H:324:LYS:NZ	2:HA:221:ARG:HA	2.13	0.63
1:IB:345:ILE:O	1:IB:348:ASN:ND2	2.31	0.63
1:IF:198:GLU:HB2	1:IF:266:PHE:HE2	1.63	0.63
1:IL:350:LYS:HZ1	2:IM:181:VAL:HG22	1.63	0.63
2:J:200:VAL:HG23	2:J:256:GLN:HG2	1.80	0.63
2:JB:326:LYS:NZ	1:JC:219:THR:HA	2.11	0.63
1:JE:248:SER:HA	1:JE:252:LYS:HE3	1.79	0.63
1:JM:133:PHE:HB2	1:JM:164:MET:HE1	1.80	0.63
2:JN:11:GLN:HG3	2:JN:74:VAL:HG11	1.78	0.63
2:KJ:67:PHE:HB2	2:KJ:92:LEU:HD12	1.79	0.63
1:KM:347:ASN:ND2	2:KN:178:SER:O	2.31	0.63
1:LC:122:LYS:HE2	1:MB:291:GLN:NE2	2.13	0.63
1:M:112:LEU:HD22	1:M:147:MET:HE1	1.79	0.63
1:M:207:LEU:HB3	1:M:225:LEU:HD22	1.78	0.63
1:MB:416:ASN:OD1	33:2F:129:ARG:NH2	2.28	0.63
1:OF:272:PRO:HD2	1:OF:361:LEU:HD21	1.79	0.63
2:PI:393:HIS:HE1	2:PI:397:LEU:HD11	1.62	0.63
1:PJ:150:LEU:O	1:PJ:154:LYS:HG2	1.98	0.63
1:PL:263:LEU:HD11	1:PL:425:TYR:HD2	1.63	0.63
2:QB:265:ILE:HD11	56:3d:127:LEU:HD11	1.80	0.63
2:RH:291:ILE:HG22	2:RH:375:VAL:HG12	1.80	0.63
2:SG:67:PHE:HB2	2:SG:92:LEU:HD12	1.79	0.63
1:TF:148:GLY:O	1:TF:152:ILE:HG12	1.99	0.63
2:UA:3:GLU:OE2	2:UA:64:ARG:NH2	2.30	0.63
1:UH:170:ILE:N	1:UH:202:ILE:O	2.22	0.63
1:UH:267:MET:HE2	1:UH:374:ILE:HD11	1.81	0.63
1:VB:48:ASN:O	1:VB:62:ARG:NH2	2.31	0.63
2:VE:254:GLU:O	2:VE:258:ASN:ND2	2.30	0.63
1:VL:322:SER:OG	2:VM:222:PRO:O	2.15	0.63
1:WD:249:ASP:H	1:WD:252:LYS:HB2	1.63	0.63
4:XR:208:ASN:O	4:XR:210:ARG:NH1	2.30	0.63
9:0M:81:VAL:HG23	9:0M:110:LYS:HB2	1.80	0.63
33:2H:201:GLN:NE2	33:2H:205:MET:SD	2.71	0.63
41:2o:175:ILE:HG23	41:2o:179:ARG:HH12	1.62	0.63
57:3h:65:LEU:HG	57:3h:69:MET:HE1	1.79	0.63
66:5K:152:ASN:ND2	66:5K:189:THR:O	2.30	0.63
1:AF:68:LEU:HD13	1:AF:97:ALA:HB2	1.81	0.63
1:BD:295:ASP:OD2	1:BD:297:LYS:NZ	2.23	0.63
1:BN:207:LEU:HD22	1:BN:300:MET:HB2	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:209:ILE:HG21	2:CB:227:VAL:HA	1.79	0.63
2:CB:260:VAL:HB	1:CC:397:TRP:HZ2	1.62	0.63
1:CE:54:SER:O	25:1O:765:GLN:NE2	2.31	0.63
1:CI:46:ARG:NH2	2:CJ:76:ASP:OD2	2.31	0.63
2:CL:27:GLU:HB3	2:CL:361:THR:HG21	1.80	0.63
1:DA:308:GLY:HA3	1:DA:373:CYS:HB3	1.80	0.63
1:DG:32:PRO:HB2	1:DG:83:GLN:HE21	1.63	0.63
1:DG:293:MET:HE3	1:DG:367:PHE:HB2	1.80	0.63
1:DI:350:LYS:NZ	1:DI:351:SER:O	2.31	0.63
1:EF:107:THR:OG1	1:EF:401:GLU:OE2	2.15	0.63
2:GC:31:GLN:HE22	2:GC:37:PRO:HD3	1.62	0.63
1:H:276:ARG:HH12	17:0m:126:LYS:HD3	1.62	0.63
1:HH:172:SER:HB3	1:HH:175:VAL:HG22	1.80	0.63
1:HJ:173:PRO:HG2	1:HJ:384:GLN:HE22	1.63	0.63
2:HM:91:GLN:H	2:HM:121:ARG:HH11	1.44	0.63
2:J:75:VAL:HG21	2:J:94:SER:HB2	1.80	0.63
1:KA:75:SER:HB3	49:3P:552:ARG:HD3	1.80	0.63
2:L:174:SER:OG	2:L:177:VAL:O	2.15	0.63
1:LE:156:ARG:NH2	1:LE:160:PRO:O	2.30	0.63
1:LG:4:ILE:HD11	1:LG:134:GLN:HB2	1.79	0.63
1:LI:10:GLY:O	1:LI:14:ASN:ND2	2.32	0.63
1:LI:328:GLU:HA	1:LI:331:LEU:HG	1.80	0.63
2:LJ:264:ARG:NH2	2:LJ:424:ASP:O	2.31	0.63
2:LJ:370:LYS:O	23:1E:121:ARG:NH1	2.32	0.63
1:MF:158:GLU:HA	4:XO:87:GLY:HA3	1.78	0.63
1:MH:207:LEU:HB3	1:MH:225:LEU:HD22	1.79	0.63
1:MN:362:LYS:HG3	1:MN:363:MET:HE3	1.78	0.63
2:NA:309:HIS:HA	60:3r:67:LYS:HE3	1.79	0.63
2:NE:265:ILE:HG22	2:NE:380:ASN:HD21	1.63	0.63
1:NF:97:ALA:HB2	1:NF:143:THR:HB	1.79	0.63
1:OJ:237:THR:HG22	1:OJ:250:LEU:HD21	1.79	0.63
2:OM:8:HIS:CD2	2:OM:17:GLY:HA3	2.33	0.63
2:QB:362:VAL:HG22	2:QB:370:LYS:HB3	1.80	0.63
1:RA:48:ASN:O	1:RA:62:ARG:NH1	2.31	0.63
1:RC:66:MET:HE1	1:RC:151:LEU:HB2	1.81	0.63
1:SJ:301:GLN:HE22	1:SJ:303:ALA:HB2	1.63	0.63
1:TF:18:SER:O	1:TF:22:GLU:HG3	1.98	0.63
2:TI:253:THR:HA	2:TI:256:GLN:HG3	1.80	0.63
1:UB:313:ALA:HB1	1:UB:367:PHE:HE1	1.63	0.63
1:UL:256:ASN:HD22	1:UL:350:LYS:HG3	1.63	0.63
2:VM:51:THR:HG21	2:VM:243:ARG:HG2	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:WA:195:LEU:HD11	2:WA:428:LEU:HD22	1.80	0.63
1:WB:311:LEU:HA	1:WB:342:ILE:HD12	1.80	0.63
1:WL:113:ILE:HG13	1:WL:117:LEU:HD23	1.79	0.63
6:0:13:ARG:HB2	6:0:211:THR:HG21	1.78	0.63
9:0N:511:ARG:NH1	9:0N:552:GLU:OE2	2.30	0.63
23:1E:316:LEU:HB3	23:1E:320:ARG:HH12	1.64	0.63
24:1H:339:THR:HG22	24:1H:341:GLU:H	1.63	0.63
24:1J:430:ARG:HD3	24:1J:506:LEU:HD11	1.79	0.63
24:1K:361:TYR:HB3	24:1K:365:THR:HB	1.80	0.63
35:2O:13:ARG:HG2	35:2O:44:PHE:CE2	2.33	0.63
41:2l:273:GLU:HG3	41:2l:277:MET:HE1	1.79	0.63
42:2r:251:LEU:HA	42:2r:254:GLN:HG2	1.80	0.63
48:3G:38:ARG:NH1	48:3G:39:PRO:O	2.31	0.63
1:AB:345:ILE:O	1:AB:348:ASN:ND2	2.31	0.63
1:AD:99:ASN:HD21	1:AD:178:THR:HG23	1.63	0.63
1:AH:247:ASN:H	2:AI:11:GLN:HE22	1.46	0.63
1:AH:262:ARG:HH11	5:XP:250:ARG:HH22	1.44	0.63
1:BJ:83:GLN:O	1:CI:281:TYR:OH	2.16	0.63
1:CI:232:VAL:HG13	1:CI:366:THR:HB	1.79	0.63
1:CK:11:GLN:HA	1:CK:72:THR:HG21	1.80	0.63
2:DF:222:PRO:HA	25:1O:698:GLN:HE21	1.62	0.63
1:DM:166:THR:HG21	1:DM:192:LEU:HD22	1.80	0.63
1:EJ:245:GLN:O	2:EK:11:GLN:NE2	2.31	0.63
1:EL:60:VAL:HG11	1:EL:86:ARG:HG3	1.79	0.63
1:F:379:ARG:HH22	1:F:423:GLN:HE21	1.44	0.63
1:GF:332:ASN:ND2	59:4O:246:ALA:O	2.29	0.63
2:GG:370:LYS:HE2	10:0S:423:TYR:CD2	2.34	0.63
2:HE:254:GLU:O	2:HE:258:ASN:ND2	2.32	0.63
2:HI:326:LYS:HZ2	1:HJ:220:PRO:C	2.06	0.63
1:IH:226:ASN:OD1	69:IH:500:GDP:N1	2.29	0.63
2:JD:326:LYS:NZ	1:JE:219:THR:HA	2.13	0.63
1:JG:311:LEU:HA	1:JG:342:ILE:HD12	1.80	0.63
1:KK:103:LYS:NZ	1:KK:401:GLU:OE2	2.29	0.63
2:L:98:ASP:OD1	2:L:99:ALA:N	2.32	0.63
2:LD:3:GLU:HA	2:LD:51:THR:HA	1.79	0.63
1:LG:215:LEU:HB3	1:LG:217:LEU:HG	1.80	0.63
1:MB:49:VAL:HG11	1:MB:241:ARG:HG2	1.79	0.63
1:MD:73:MET:HE2	1:MD:92:PHE:HB3	1.79	0.63
1:MD:132:GLY:HA2	1:MD:162:ARG:HB3	1.80	0.63
1:MD:330:MET:HA	1:MD:333:VAL:HG12	1.80	0.63
1:N:200:MET:HE2	1:N:368:ILE:HD12	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NB:100:ASN:HB3	1:NB:103:LYS:HG2	1.81	0.63
2:NI:102:ASN:HB3	2:NI:105:ARG:HB2	1.80	0.63
2:NM:215:ARG:HH22	2:NM:300:GLY:HA2	1.62	0.63
2:OE:67:PHE:HB2	2:OE:92:LEU:HD12	1.80	0.63
1:OJ:121:ARG:NH1	1:OJ:158:GLU:OE1	2.32	0.63
1:OL:184:ASN:OD1	1:OL:398:TYR:OH	2.15	0.63
2:QB:265:ILE:HG21	2:QB:313:MET:HE1	1.81	0.63
2:QH:67:PHE:HB2	2:QH:92:LEU:HD12	1.80	0.63
2:QH:138:PHE:HZ	2:QH:235:VAL:HG21	1.64	0.63
2:QH:269:LEU:HD13	2:QH:301:MET:HE3	1.81	0.63
2:TI:67:PHE:HB2	2:TI:92:LEU:HD12	1.80	0.63
2:UA:89:PRO:HG2	2:VA:280:LYS:HG2	1.80	0.63
1:UB:172:SER:OG	1:UB:380:ARG:NH2	2.31	0.63
1:UD:324:LYS:HZ3	2:UE:210:TYR:HB3	1.63	0.63
1:UL:27:GLU:O	1:UL:43:GLN:NE2	2.26	0.63
1:UL:263:LEU:HB3	1:UL:370:ASN:HD21	1.63	0.63
1:VB:248:SER:HA	1:VB:252:LYS:HD2	1.80	0.63
2:WA:315:CYS:SG	2:WA:377:MET:HE1	2.37	0.63
6:0A:163:THR:HG22	6:0A:210:ARG:HD2	1.80	0.63
8:0G:430:ARG:HD2	53:3W:236:TYR:HB3	1.79	0.63
9:0N:306:LEU:HB3	9:0N:320:LEU:HG	1.80	0.63
10:0S:340:GLU:O	10:0S:343:LYS:HG3	1.99	0.63
36:2Q:31:LYS:HD2	36:2Q:53:ARG:HG3	1.80	0.63
2:AA:262:TYR:OH	1:AB:391:ARG:O	2.14	0.63
2:AK:167:LEU:HD11	2:AK:252:LEU:HD22	1.80	0.63
2:AK:174:SER:OG	2:AK:177:VAL:O	2.15	0.63
2:BC:224:TYR:O	2:BC:228:ASN:ND2	2.31	0.63
2:BI:51:THR:HG21	2:BI:243:ARG:HG2	1.80	0.63
1:CC:2:ARG:HE	1:CC:240:LEU:HD23	1.63	0.63
1:CC:316:LEU:HD23	1:CC:352:SER:HB2	1.81	0.63
2:CD:51:THR:HG21	2:CD:243:ARG:HG2	1.81	0.63
2:CD:217:LEU:HD12	16:0k:441:ARG:HH22	1.63	0.63
2:CD:251:ASP:H	2:CD:254:GLU:HB2	1.63	0.63
1:CK:267:MET:HE3	1:CK:371:ASN:HB3	1.81	0.63
1:CM:301:GLN:HE21	1:CM:377:MET:HE3	1.62	0.63
1:DI:412:GLU:OE2	1:DI:416:ASN:ND2	2.32	0.63
2:DL:237:SER:HA	2:DL:320:ARG:HD2	1.79	0.63
1:DM:204:ASN:OD1	69:DM:500:GDP:O2'	2.17	0.63
2:FA:265:ILE:HG21	2:FA:313:MET:HE1	1.79	0.63
2:FE:211:ASP:OD2	2:FE:304:LYS:NZ	2.29	0.63
1:FF:167:PHE:CE1	1:FF:233:MET:HG2	2.34	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GC:186:ASN:OD1	2:GC:408:TYR:OH	2.17	0.63
1:GH:139:LEU:HG	1:GH:168:SER:HB2	1.79	0.63
1:GL:290:THR:HG23	59:4P:91:VAL:HG11	1.79	0.63
2:HI:316:CYS:HB3	2:HI:378:ILE:HG23	1.81	0.63
2:HK:174:SER:HB2	2:HK:207:GLU:OE1	1.98	0.63
2:HK:196:GLU:HG3	2:HK:197:HIS:CD2	2.34	0.63
2:HK:275:VAL:HG23	2:HK:368:LEU:HD21	1.80	0.63
1:HL:289:LEU:HD21	1:HL:365:VAL:HG11	1.79	0.63
2:HM:217:LEU:HD21	2:HM:275:VAL:HG22	1.80	0.63
2:II:370:LYS:HG3	7:0D:188:ARG:HA	1.78	0.63
2:IK:91:GLN:H	2:IK:121:ARG:HH11	1.45	0.63
1:KA:345:ILE:HA	2:KB:398:MET:HE1	1.80	0.63
1:KC:267:MET:HG3	1:KC:299:MET:HE2	1.81	0.63
2:KJ:136:MET:HG2	2:KJ:169:TYR:HE2	1.63	0.63
1:KK:80:PRO:O	49:3Q:203:ARG:NH1	2.30	0.63
1:KM:404:ASP:OD1	1:KM:405:GLU:N	2.30	0.63
2:L:67:PHE:HB2	2:L:92:LEU:HD12	1.80	0.63
1:MN:392:LYS:HA	1:MN:395:LEU:HD12	1.80	0.63
2:NG:319:TYR:HB3	2:NG:323:VAL:HG21	1.80	0.63
1:O:107:THR:OG1	1:O:108:GLU:OE1	2.16	0.63
1:OD:34:GLY:HA3	1:OD:58:ARG:HB2	1.80	0.63
1:OH:320:ARG:NE	28:1h:80:GLU:OE2	2.32	0.63
2:PC:175:PRO:HD2	2:PC:207:GLU:OE2	1.99	0.63
2:PC:220:GLU:O	2:PC:221:ARG:NE	2.32	0.63
1:PD:236:VAL:HG13	1:PD:237:THR:HG23	1.80	0.63
2:PK:262:TYR:HE1	1:PL:393:ALA:HA	1.64	0.63
2:QB:98:ASP:O	2:QB:105:ARG:NH1	2.31	0.63
1:RE:122:LYS:HG2	1:SD:291:GLN:NE2	2.14	0.63
1:RG:152:ILE:HG23	1:RG:164:MET:HG2	1.81	0.63
2:RH:116:ASP:OD1	2:RH:117:LEU:N	2.32	0.63
1:TF:323:THR:HA	1:TF:326:VAL:HG12	1.80	0.63
2:UK:199:ASP:OD1	2:UK:200:VAL:N	2.30	0.63
2:VC:398:MET:HA	2:VC:398:MET:HE2	1.80	0.63
1:VL:202:ILE:HD11	1:VL:268:MET:HE3	1.80	0.63
2:WE:265:ILE:HG22	2:WE:380:ASN:HD21	1.63	0.63
2:WM:319:TYR:HB3	2:WM:323:VAL:HG21	1.80	0.63
3:XB:85:LYS:HB2	3:XB:159:ASN:HB3	1.81	0.63
5:XN:164:TYR:OH	5:XN:196:GLY:O	2.17	0.63
9:0L:470:ASN:ND2	9:0L:510:PHE:O	2.30	0.63
16:0l:898:GLN:HB3	16:0l:902:ARG:NH1	2.13	0.63
16:0k:44:ALA:O	16:0k:48:ARG:HG2	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:1w:43:HIS:CD2	22:1w:44:LYS:H	2.17	0.63
32:2B:219:VAL:HG11	33:2G:173:GLN:HB3	1.80	0.63
39:2X:311:ARG:HG3	39:2X:312:TYR:CD1	2.33	0.63
40:2Z:249:TYR:HA	40:2Z:252:VAL:HG12	1.80	0.63
46:3B:93:PHE:O	46:3B:97:ASP:HB2	1.99	0.63
49:3Q:446:GLU:HG3	49:3Q:533:VAL:HA	1.80	0.63
49:3Q:474:GLU:HA	49:3Q:477:THR:HG22	1.80	0.63
2:BI:3:GLU:HB3	2:BI:132:LEU:HA	1.80	0.63
1:BL:276:ARG:NH1	24:1J:139:SER:O	2.31	0.63
2:C:319:TYR:CE2	2:C:328:VAL:HG22	2.34	0.63
2:C:392:ASP:HB3	2:C:425:LEU:HD23	1.80	0.63
2:CB:324:VAL:HG12	2:CB:326:LYS:H	1.64	0.63
2:EK:203:MET:HG3	2:EK:384:ILE:HD11	1.80	0.63
1:EL:235:GLY:HA3	1:EL:366:THR:HG21	1.80	0.63
1:FJ:324:LYS:HA	1:FJ:327:ASP:OD1	1.98	0.63
1:HB:68:LEU:HD12	1:HB:97:ALA:HB2	1.81	0.63
1:HB:344:TRP:CG	2:HC:401:LYS:HZ1	2.17	0.63
2:HC:262:TYR:HB2	2:HC:265:ILE:HG22	1.80	0.63
2:JH:174:SER:OG	2:JH:177:VAL:O	2.15	0.63
2:JL:422:ARG:HB3	60:3t:23:HIS:HE1	1.63	0.63
1:LA:40:SER:HB2	29:1j:211:MET:HE3	1.80	0.63
2:LB:420:GLU:HA	2:LB:423:GLU:HG3	1.79	0.63
2:LD:174:SER:OG	2:LD:177:VAL:O	2.17	0.63
1:LI:421:GLU:HA	13:0Z:142:PHE:HD2	1.63	0.63
1:MD:9:ALA:HA	1:MD:66:MET:HB3	1.79	0.63
1:MD:310:TYR:N	1:MD:340:TYR:O	2.25	0.63
1:MH:309:ARG:H	1:MH:372:THR:HG1	1.46	0.63
2:NC:53:PHE:HB3	2:NC:61:HIS:HB3	1.81	0.63
1:ND:109:GLY:HA2	1:ND:147:MET:HE2	1.79	0.63
2:OC:60:LYS:HZ1	41:2k:194:ARG:CZ	2.10	0.63
1:OH:226:ASN:OD1	69:OH:500:GDP:N1	2.30	0.63
1:OH:235:GLY:HA3	1:OH:366:THR:HG21	1.80	0.63
2:OI:121:ARG:HA	2:OI:124:LYS:HG2	1.79	0.63
1:OL:46:ARG:HH21	2:OM:73:THR:HA	1.64	0.63
2:PG:116:ASP:OD1	59:4a:257:TYR:N	2.32	0.63
2:RD:237:SER:HA	2:RD:320:ARG:HD2	1.80	0.63
1:RK:178:THR:HB	1:RK:181:GLU:HG3	1.79	0.63
1:SF:347:ASN:ND2	2:SG:180:ALA:O	2.30	0.63
1:TB:331:LEU:HD11	2:TC:176:GLN:HG3	1.79	0.63
2:TC:259:LEU:O	2:TC:380:ASN:ND2	2.32	0.63
2:UC:204:LEU:HD13	2:UC:231:ILE:HD11	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UD:221:THR:HG21	8:0I:183:ARG:HH22	1.62	0.63
1:UF:46:ARG:HH21	2:UG:73:THR:HA	1.63	0.63
2:UI:26:LEU:HD22	2:UI:363:VAL:HG12	1.79	0.63
2:VK:326:LYS:HZ2	1:VL:212:PHE:HB2	1.63	0.63
2:VM:307:PRO:HB3	2:VM:312:TYR:HE1	1.63	0.63
8:0F:127:GLU:O	8:0F:131:MET:HG2	1.98	0.63
8:0I:233:GLU:HG3	53:3W:193:VAL:HG11	1.80	0.63
9:0O:61:ASN:OD1	9:0O:80:GLN:NE2	2.32	0.63
19:0r:80:ASP:O	19:0r:84:ARG:HG3	1.98	0.63
41:2k:302:GLU:OE2	41:2k:303:ARG:NH1	2.32	0.63
49:3Q:325:ILE:HG12	49:3Q:328:ARG:HB2	1.81	0.63
57:3i:58:SER:N	57:3i:61:GLU:OE2	2.28	0.63
64:5C:234:LYS:HG2	65:5H:237:ARG:NH2	2.13	0.63
1:AF:248:SER:HA	1:AF:252:LYS:HG2	1.80	0.63
2:AI:254:GLU:O	2:AI:258:ASN:ND2	2.31	0.63
2:AI:396:ASP:OD2	2:AI:422:ARG:NH2	2.32	0.63
2:AK:262:TYR:HB2	2:AK:265:ILE:HG12	1.79	0.63
2:AK:265:ILE:HG23	2:AK:432:TYR:HE2	1.63	0.63
2:AM:335:ILE:HG23	2:AM:341:ILE:HD11	1.80	0.63
2:BG:229:ARG:HD3	2:BG:363:VAL:HG11	1.81	0.63
2:BI:217:LEU:HD21	2:BI:368:LEU:HD23	1.80	0.63
2:CJ:26:LEU:O	24:1J:252:ARG:NH2	2.31	0.63
2:CL:89:PRO:HG3	2:DL:279:GLU:HG3	1.81	0.63
1:DG:324:LYS:NZ	2:DH:210:TYR:HB3	2.13	0.63
1:DK:230:ALA:HA	1:DK:233:MET:HG2	1.81	0.63
1:E:303:ALA:HB2	1:E:377:MET:HE3	1.80	0.63
2:FI:203:MET:HA	2:FI:203:MET:HE3	1.80	0.63
1:FJ:36:TYR:OH	1:FJ:40:SER:O	2.17	0.63
1:GF:204:ASN:OD1	69:GF:500:GDP:O2'	2.16	0.63
2:HC:129:CYS:SG	2:HC:130:THR:N	2.72	0.63
2:KJ:130:THR:HA	35:2O:106:PRO:HB3	1.81	0.63
1:LC:207:LEU:HD13	1:LC:225:LEU:HB3	1.79	0.63
1:LG:6:SER:OG	1:LG:8:GLN:OE1	2.16	0.63
2:LJ:434:GLU:OE2	22:0z:148:PHE:CE2	2.52	0.63
1:M:150:LEU:O	1:M:154:LYS:HG2	1.98	0.63
1:MJ:217:LEU:HD23	24:1I:23:CYS:HB3	1.81	0.63
2:NK:180:ALA:HB3	2:NK:183:GLU:HG3	1.80	0.63
2:OA:108:TYR:HE2	2:OA:413:MET:HG3	1.63	0.63
2:OC:60:LYS:HZ2	41:2k:190:TRP:NE1	1.96	0.63
1:OF:324:LYS:HZ3	2:OG:222:PRO:HG2	1.61	0.63
2:OI:254:GLU:O	2:OI:258:ASN:ND2	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PH:253:LEU:HD11	1:PH:316:LEU:HD21	1.80	0.63
1:PL:198:GLU:HB2	1:PL:266:PHE:HE1	1.63	0.63
1:QG:345:ILE:HG22	2:QH:398:MET:HG2	1.81	0.63
1:QI:36:TYR:HE2	31:1s:243:ILE:HD11	1.64	0.63
2:QJ:105:ARG:HA	2:QJ:109:THR:HG22	1.80	0.63
2:RF:174:SER:OG	2:RF:177:VAL:O	2.16	0.63
2:RJ:174:SER:OG	2:RJ:177:VAL:O	2.15	0.63
1:TH:156:ARG:NH2	1:TH:197:ASP:OD1	2.32	0.63
1:UB:211:CYS:HA	1:UB:215:LEU:HB2	1.79	0.63
2:UI:258:ASN:HB2	1:UJ:179:VAL:HG22	1.81	0.63
2:UK:335:ILE:HD11	2:UK:341:ILE:HG13	1.81	0.63
1:UL:99:ASN:ND2	1:UL:178:THR:HG21	2.14	0.63
2:VA:1:MET:N	2:VA:3:GLU:OE2	2.32	0.63
2:VK:50:ASN:HD21	14:0d:311:LYS:HG3	1.63	0.63
1:VL:226:ASN:OD1	69:VL:500:GDP:N1	2.29	0.63
1:WL:276:ARG:HH21	14:0d:327:VAL:HG21	1.64	0.63
8:0G:427:ARG:HH12	8:0G:428:ARG:HH21	1.47	0.63
9:0L:407:ALA:O	9:0L:447:ARG:NH1	2.29	0.63
10:0R:184:ARG:NH1	10:0R:188:GLU:OE2	2.32	0.63
26:1Q:88:ARG:HD2	26:1Q:111:LYS:HD2	1.81	0.63
27:1S:111:ASN:ND2	54:3Z:291:ALA:O	2.31	0.63
28:1c:25:CYS:SG	28:1c:27:LYS:HG2	2.38	0.63
44:2v:231:ASP:OD1	44:2v:234:ARG:NH2	2.24	0.63
64:5D:90:VAL:HG21	65:5I:80:GLU:HG2	1.80	0.63
1:AB:256:ASN:HD22	1:AB:350:LYS:HD3	1.64	0.63
1:AB:344:TRP:HA	2:AC:397:LEU:HD22	1.79	0.63
2:AI:67:PHE:HB2	2:AI:92:LEU:HD12	1.79	0.63
2:AI:237:SER:HA	2:AI:320:ARG:HD2	1.80	0.63
1:BJ:247:ASN:H	2:BK:11:GLN:HE22	1.45	0.63
2:BK:338:LYS:HG2	2:BK:340:THR:HG22	1.79	0.63
2:BK:364:PRO:HG2	16:0l:581:PRO:HB3	1.79	0.63
1:BL:207:LEU:HD22	1:BL:300:MET:HB2	1.79	0.63
1:CC:201:CYS:O	1:CC:301:GLN:NE2	2.32	0.63
2:CD:102:ASN:HB3	2:CD:105:ARG:HB2	1.80	0.63
1:CK:172:SER:OG	1:CK:205:GLU:OE1	2.15	0.63
2:DF:104:ALA:HB2	2:DF:413:MET:HE3	1.80	0.63
1:E:139:LEU:HA	1:E:145:SER:HB3	1.80	0.63
2:EK:81:GLY:O	2:EK:84:ARG:NH1	2.31	0.63
1:FD:351:SER:O	2:FE:179:THR:OG1	2.16	0.63
1:FF:267:MET:HE1	1:FF:305:PRO:HB3	1.80	0.63
1:FH:325:GLU:OE2	2:FI:221:ARG:NE	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FK:223:SER:OG	2:FK:224:TYR:N	2.32	0.63
2:GC:141:VAL:HG13	2:GC:170:THR:HG21	1.79	0.63
2:GE:104:ALA:O	2:GE:108:TYR:HB2	1.99	0.63
1:GF:187:LEU:O	1:GF:190:HIS:CE1	2.51	0.63
1:H:73:MET:HG3	1:H:92:PHE:CD2	2.34	0.63
1:HD:165:MET:HE1	1:HD:200:MET:HE3	1.80	0.63
1:HD:286:VAL:HG11	1:HD:325:GLU:HB3	1.81	0.63
2:IG:56:THR:HG23	2:IG:58:ALA:H	1.64	0.63
2:II:174:SER:OG	2:II:177:VAL:O	2.16	0.63
1:IJ:159:TYR:HB3	1:IJ:162:ARG:HG2	1.80	0.63
1:IJ:270:PHE:HE2	7:0D:204:LEU:HD11	1.63	0.63
1:JA:213:ARG:HD2	1:JA:297:LYS:HD3	1.80	0.63
1:JC:19:LYS:HE2	15:0f:77:ARG:CZ	2.29	0.63
1:KE:325:GLU:OE1	2:KF:221:ARG:NH2	2.32	0.63
1:LI:306:ARG:HD2	35:2O:79:ASP:HB2	1.80	0.63
1:LO:60:VAL:HG22	1:MN:281:TYR:HD1	1.61	0.63
2:MA:388:PHE:HA	2:MA:391:ILE:HG22	1.80	0.63
1:MD:323:THR:HA	1:MD:326:VAL:HG12	1.79	0.63
2:MK:386:GLU:OE1	2:MK:390:ARG:NH2	2.32	0.63
2:MM:71:GLU:HB3	2:MM:98:ASP:HB3	1.81	0.63
1:O:401:GLU:HB3	1:O:403:MET:HE1	1.79	0.63
1:RC:404:ASP:OD1	1:RC:405:GLU:N	2.31	0.63
2:RD:118:ALA:O	2:RD:122:ILE:HG12	1.99	0.63
1:SF:156:ARG:HH21	1:SF:164:MET:HB2	1.63	0.63
2:SI:215:ARG:NH1	2:SI:299:ALA:O	2.31	0.63
1:T:172:SER:OG	1:T:174:ARG:NH2	2.31	0.63
1:TF:313:ALA:HB1	1:TF:367:PHE:HE1	1.64	0.63
1:TJ:249:ASP:H	1:TJ:252:LYS:HB2	1.63	0.63
1:TL:318:ARG:HG2	1:TL:357:PRO:HA	1.81	0.63
1:U:174:ARG:NH1	1:U:205:GLU:OE2	2.32	0.63
2:UA:254:GLU:O	2:UA:258:ASN:ND2	2.32	0.63
1:UB:236:VAL:HG13	1:UB:237:THR:HG23	1.81	0.63
1:UD:65:LEU:HB2	1:UD:73:MET:HE1	1.79	0.63
2:UG:315:CYS:HB3	2:UG:377:MET:HE1	1.81	0.63
2:VK:335:ILE:HG23	2:VK:341:ILE:HD11	1.81	0.63
9:0N:566:VAL:HG22	9:0N:576:VAL:HG22	1.80	0.63
11:0U:95:MET:HE3	11:0U:181:LEU:HD23	1.81	0.63
21:0w:256:GLU:OE2	21:0w:260:GLN:NE2	2.32	0.63
24:1J:14:ARG:O	45:2z:77:ARG:HG2	1.99	0.63
24:1K:360:ASP:OD2	24:1K:361:TYR:N	2.32	0.63
41:2f:449:TYR:HA	41:2f:452:VAL:HG12	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:2w:96:ASP:OD1	44:2w:97:ALA:N	2.32	0.63
45:2z:188:PRO:O	45:2z:188:PRO:HD2	1.99	0.63
64:5B:85:ARG:O	64:5B:89:ALA:N	2.30	0.63
1:AB:204:ASN:O	1:AB:208:TYR:HD2	1.81	0.63
2:AI:91:GLN:HG2	2:AI:125:LEU:HD21	1.80	0.63
1:BD:324:LYS:HZ3	2:BE:222:PRO:HD2	1.63	0.63
2:CD:69:ASP:OD1	2:CD:70:LEU:N	2.31	0.63
1:DA:73:MET:HG3	1:DA:92:PHE:HB3	1.81	0.63
1:E:31:ASP:OD1	1:E:37:GLN:NE2	2.32	0.63
1:EB:44:LEU:O	26:1Q:673:ARG:NH1	2.31	0.63
2:FE:195:LEU:HD22	2:FE:428:LEU:HD22	1.81	0.63
2:FI:260:VAL:HB	1:FJ:397:TRP:HZ2	1.64	0.63
1:FL:293:MET:HE2	1:FL:365:VAL:HG21	1.79	0.63
2:GC:172:TYR:CD2	2:GC:203:MET:HG3	2.33	0.63
1:GD:130:LEU:O	1:GD:162:ARG:NH1	2.30	0.63
2:GI:254:GLU:O	2:GI:258:ASN:ND2	2.32	0.63
1:GL:61:PRO:HD3	1:GL:84:LEU:HG	1.79	0.63
1:H:301:GLN:NE2	1:H:377:MET:SD	2.72	0.63
1:H:346:PRO:O	2:HA:394:LYS:NZ	2.32	0.63
1:HF:291:GLN:NE2	1:HF:295:ASP:OD2	2.31	0.63
2:HI:75:VAL:HG21	2:HI:94:SER:HB2	1.80	0.63
1:IF:253:LEU:HD21	1:IF:316:LEU:HD21	1.81	0.63
1:IH:247:ASN:ND2	2:II:73:THR:OG1	2.31	0.63
1:JA:416:ASN:ND2	60:3r:48:ILE:N	2.47	0.63
1:JG:324:LYS:NZ	2:JH:222:PRO:O	2.31	0.63
2:JN:319:TYR:HB3	2:JN:323:VAL:HG21	1.81	0.63
2:JN:322:ASP:OD2	2:JN:373:ARG:NE	2.29	0.63
1:KE:322:SER:HB3	2:KF:221:ARG:HE	1.63	0.63
2:KJ:275:VAL:HG23	2:KJ:368:LEU:HD21	1.79	0.63
1:LA:100:ASN:HB3	1:LA:103:LYS:HG3	1.80	0.63
2:LF:325:PRO:HA	2:LF:328:VAL:HG12	1.81	0.63
1:N:345:ILE:HG23	1:N:348:ASN:HD21	1.64	0.63
1:NH:178:THR:HB	1:NH:181:GLU:HG3	1.81	0.63
1:NJ:139:LEU:HG	1:NJ:168:SER:HB3	1.81	0.63
2:NM:93:VAL:HG21	2:NM:117:LEU:HD22	1.81	0.63
2:OC:70:LEU:HG	2:OC:149:LEU:HD22	1.80	0.63
2:OE:32:PRO:HB2	41:2k:144:MET:HE1	1.81	0.63
2:OI:67:PHE:HB2	2:OI:92:LEU:HD12	1.80	0.63
1:OJ:67:ASP:O	1:OJ:92:PHE:HA	1.98	0.63
1:OL:293:MET:HE1	1:OL:365:VAL:HG21	1.81	0.63
1:PH:239:CYS:HB3	1:PH:248:SER:H	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QA:311:LEU:HD23	1:QA:342:ILE:HD12	1.81	0.63
1:QA:356:ILE:HG21	28:1b:37:PHE:CE1	2.33	0.63
1:QC:2:ARG:N	1:QC:129:CYS:O	2.32	0.63
2:QD:172:TYR:CE2	2:QD:203:MET:HE1	2.34	0.63
1:QG:178:THR:HG23	1:QG:181:GLU:HG3	1.80	0.63
1:QK:267:MET:HE2	1:QK:371:ASN:HB2	1.81	0.63
1:QK:286:VAL:HB	1:QK:325:GLU:HB3	1.81	0.63
2:RB:26:LEU:HD12	2:RB:363:VAL:HG12	1.79	0.63
1:RC:323:THR:HA	1:RC:326:VAL:HG12	1.81	0.63
1:RE:412:GLU:OE2	1:RE:416:ASN:ND2	2.30	0.63
1:SB:379:ARG:O	1:SB:383:GLU:HG3	1.98	0.63
2:SK:70:LEU:HD12	2:SK:145:THR:HG22	1.81	0.63
1:T:313:ALA:HB1	1:T:367:PHE:HE1	1.63	0.63
2:TI:214:ARG:NH2	61:3x:34:LYS:O	2.30	0.63
2:TK:276:VAL:HB	2:TK:280:LYS:HB2	1.81	0.63
1:TL:156:ARG:HB2	1:TL:195:ASN:OD1	1.98	0.63
1:U:232:VAL:HG21	1:U:300:MET:HE1	1.79	0.63
2:VC:172:TYR:CD2	2:VC:203:MET:HG3	2.34	0.63
1:VH:257:LEU:O	1:VH:370:ASN:ND2	2.32	0.63
2:VK:5:ILE:HG12	2:VK:132:LEU:HD11	1.81	0.63
2:VM:175:PRO:HG2	2:VM:207:GLU:HG3	1.81	0.63
2:WA:127:ASP:OD2	4:XM:127:TYR:OH	2.16	0.63
12:0W:10:MET:HG2	12:0W:88:LEU:HD11	1.80	0.63
23:1B:246:GLN:NE2	23:1B:250:GLU:OE2	2.32	0.63
23:1B:335:ASN:O	23:1B:338:LEU:HG	1.99	0.63
23:1E:168:ASP:OD2	23:1E:174:ARG:NH2	2.32	0.63
28:1h:43:TYR:O	28:1h:47:TYR:N	2.31	0.63
44:2v:301:ARG:NH1	44:2v:302:GLY:O	2.32	0.63
49:3P:325:ILE:HG13	49:3P:328:ARG:HB2	1.81	0.63
57:3g:97:LYS:NZ	57:3g:99:MET:SD	2.72	0.63
1:AB:100:ASN:HB3	1:AB:103:LYS:HB2	1.81	0.63
1:AD:270:PHE:O	1:AD:298:ASN:ND2	2.32	0.63
2:AK:213:THR:HB	2:AK:222:PRO:HG2	1.79	0.63
1:BF:334:GLN:HE22	1:BF:348:ASN:HB2	1.62	0.63
2:CB:203:MET:HE3	2:CB:384:ILE:HG12	1.80	0.63
1:CC:326:VAL:O	1:CC:330:MET:HG2	1.99	0.63
1:E:14:ASN:HB3	1:E:76:VAL:HG21	1.81	0.63
1:ED:202:ILE:HD12	1:ED:300:MET:HE2	1.81	0.63
2:FC:116:ASP:OD1	2:FC:117:LEU:N	2.31	0.63
1:FF:337:ASN:ND2	63:4I:276:THR:OG1	2.32	0.63
1:FH:2:ARG:N	1:FH:129:CYS:O	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FJ:237:THR:OG1	1:FJ:241:ARG:NH1	2.30	0.63
1:GD:45:GLU:HG3	1:GD:46:ARG:HG2	1.81	0.63
1:GF:245:GLN:HE21	2:GG:224:TYR:HB2	1.63	0.63
2:GI:326:LYS:HZ3	1:GJ:220:PRO:CD	2.11	0.63
1:GJ:178:THR:HG22	1:GJ:180:VAL:H	1.63	0.63
2:HE:180:ALA:HB3	2:HE:183:GLU:HB2	1.81	0.63
2:HG:216:SER:O	2:HG:280:LYS:NZ	2.31	0.63
1:HH:246:LEU:HD13	71:HI:501:GTP:H8	1.63	0.63
1:JC:256:ASN:HD21	2:JD:101:ASN:HD22	1.47	0.63
2:JD:217:LEU:HD21	2:JD:275:VAL:HG22	1.81	0.63
1:JE:347:ASN:ND2	2:JF:180:ALA:O	2.32	0.63
2:JJ:295:VAL:HG21	2:JJ:375:VAL:HG13	1.81	0.63
2:JL:82:THR:HG21	52:3U:235:GLY:HA3	1.80	0.63
1:JM:68:LEU:HD12	1:JM:97:ALA:HB2	1.80	0.63
1:LG:170:ILE:HG21	1:LG:377:MET:HE1	1.81	0.63
1:LG:175:VAL:HG11	1:LG:204:ASN:HB2	1.80	0.63
1:LK:39:ASP:CG	45:2z:78:LYS:HD3	2.24	0.63
1:MD:424:GLN:HE22	32:2B:36:SER:HB3	1.64	0.63
2:MG:67:PHE:HB2	2:MG:92:LEU:HD12	1.81	0.63
1:MJ:215:LEU:HD21	1:MJ:273:LEU:HB3	1.81	0.63
2:MK:399:TYR:O	2:MK:402:ARG:NH2	2.32	0.63
1:NB:113:ILE:HG13	1:NB:117:LEU:HD23	1.79	0.63
1:NB:313:ALA:HB3	1:NB:349:ILE:HG12	1.80	0.63
2:NM:187:CYS:O	2:NM:191:THR:HG23	1.99	0.63
1:OB:252:LYS:NZ	71:OC:501:GTP:O3G	2.31	0.63
2:OK:26:LEU:HD21	28:1h:121:TRP:HB2	1.80	0.63
1:OL:251:ARG:HH21	2:OM:105:ARG:HH12	1.46	0.63
1:P:375:GLN:NE2	1:P:423:GLN:OE1	2.32	0.63
2:PI:393:HIS:CE1	2:PI:397:LEU:HD11	2.34	0.63
1:PL:391:ARG:O	57:3h:25:GLN:NE2	2.32	0.63
2:Q:116:ASP:OD1	2:Q:117:LEU:N	2.32	0.63
2:Q:306:ASP:HB3	2:Q:308:ARG:HE	1.64	0.63
2:QD:89:PRO:HG2	2:RD:280:LYS:HB3	1.81	0.63
1:RC:60:VAL:HG11	1:RC:86:ARG:HB2	1.81	0.63
2:SA:217:LEU:HD21	2:SA:275:VAL:HG22	1.79	0.63
1:SB:10:GLY:O	1:SB:14:ASN:ND2	2.32	0.63
2:SI:53:PHE:HB3	2:SI:61:HIS:HB3	1.81	0.63
2:SI:67:PHE:HB2	2:SI:92:LEU:HD12	1.80	0.63
1:SJ:345:ILE:O	1:SJ:348:ASN:ND2	2.32	0.63
1:TB:346:PRO:HD2	2:TC:398:MET:HE2	1.81	0.63
1:TF:139:LEU:HD12	1:TF:170:ILE:HG22	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UB:143:THR:N	69:UB:500:GDP:O2B	2.32	0.63
1:UF:311:LEU:HA	1:UF:342:ILE:HD12	1.81	0.63
2:VC:295:VAL:HG21	2:VC:375:VAL:HG13	1.80	0.63
1:VH:102:ALA:HB2	1:VH:403:MET:HG2	1.80	0.63
2:VI:147:SER:HB2	2:VI:190:SER:HB3	1.81	0.63
1:VL:293:MET:HE3	1:VL:367:PHE:HB2	1.81	0.63
1:WD:318:ARG:HB3	1:WD:357:PRO:HA	1.81	0.63
1:WH:331:LEU:HD11	2:WI:176:GLN:HB3	1.80	0.63
3:XD:30:ARG:H	3:XD:57:CYS:HB3	1.64	0.63
9:0L:176:LEU:HG	9:0L:193:ILE:HD12	1.80	0.63
9:0L:376:ARG:HH11	9:0L:432:ASN:HA	1.64	0.63
27:1S:225:VAL:HG13	54:3Z:266:LEU:HD22	1.80	0.63
36:2Q:39:HIS:HD2	36:2Q:40:PRO:HD2	1.64	0.63
41:2b:282:LYS:HE3	41:2b:282:LYS:HA	1.80	0.63
49:3Q:393:ARG:HD2	49:3Q:477:THR:HG23	1.79	0.63
64:5B:107:GLU:O	65:5G:97:TYR:OH	2.15	0.63
2:AC:26:LEU:HD12	2:AC:363:VAL:HG12	1.80	0.62
2:AC:326:LYS:HE3	1:AD:220:PRO:HB2	1.81	0.62
1:AF:185:THR:O	1:AF:189:VAL:HG13	1.99	0.62
1:B:344:TRP:HZ3	2:BA:403:ALA:HB2	1.64	0.62
1:BD:128:ASP:OD1	1:BD:129:CYS:N	2.33	0.62
2:BI:260:VAL:HB	1:BJ:397:TRP:HZ2	1.64	0.62
1:CA:65:LEU:HB3	1:CA:73:MET:HE1	1.80	0.62
2:CD:214:ARG:NH1	2:CD:220:GLU:OE1	2.31	0.62
1:CE:19:LYS:HA	1:CE:22:GLU:HB2	1.81	0.62
1:CG:113:ILE:HG13	1:CG:117:LEU:HD23	1.80	0.62
1:CG:309:ARG:NH2	1:CG:343:GLU:OE1	2.32	0.62
1:CI:167:PHE:CZ	1:CI:233:MET:HG3	2.33	0.62
2:D:101:ASN:ND2	71:D:501:GTP:O1A	2.31	0.62
1:DC:252:LYS:NZ	71:DD:501:GTP:O1A	2.32	0.62
1:DM:137:HIS:NE2	1:DM:166:THR:OG1	2.32	0.62
1:EL:9:ALA:HA	1:EL:66:MET:HB2	1.81	0.62
1:FD:165:MET:HE1	1:FD:236:VAL:HG21	1.81	0.62
1:FF:166:THR:HG21	1:FF:192:LEU:HD22	1.81	0.62
2:GE:315:CYS:HB3	2:GE:377:MET:HE2	1.80	0.62
1:GF:31:ASP:OD1	1:GF:33:THR:OG1	2.14	0.62
1:H:128:ASP:OD2	1:H:129:CYS:N	2.32	0.62
2:HA:253:THR:HA	2:HA:256:GLN:HG3	1.80	0.62
1:HF:48:ASN:O	1:HF:62:ARG:NH1	2.32	0.62
1:HL:19:LYS:HD2	1:HL:226:ASN:HB2	1.81	0.62
1:HL:236:VAL:HG23	1:HL:237:THR:HG23	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:130:LEU:O	1:I:162:ARG:NH2	2.32	0.62
2:IA:50:ASN:O	2:IA:64:ARG:NH1	2.32	0.62
1:IB:37:GLN:O	17:0m:40:LYS:NZ	2.32	0.62
2:IC:192:HIS:ND1	2:IC:424:ASP:OD2	2.27	0.62
1:IH:239:CYS:HB3	1:IH:248:SER:H	1.64	0.62
2:J:116:ASP:OD1	2:J:117:LEU:N	2.32	0.62
2:J:269:LEU:HB2	2:J:303:THR:HG21	1.79	0.62
1:JE:392:LYS:NZ	60:3r:134:ASP:OD2	2.32	0.62
2:JH:89:PRO:HB2	2:KH:280:LYS:HE3	1.81	0.62
2:K:7:ILE:HD13	2:K:122:ILE:HD11	1.80	0.62
2:KB:180:ALA:HB3	2:KB:183:GLU:HB2	1.80	0.62
2:KH:89:PRO:HG3	35:2N:260:VAL:HG12	1.81	0.62
1:LE:245:GLN:O	2:LF:11:GLN:NE2	2.32	0.62
1:LO:253:LEU:HD21	1:LO:316:LEU:HD11	1.79	0.62
1:MD:279:GLN:HE21	23:1A:147:ALA:HB3	1.63	0.62
1:MF:68:LEU:HD12	1:MF:97:ALA:HB2	1.82	0.62
2:MI:295:VAL:HG21	2:MI:375:VAL:HG13	1.80	0.62
2:NE:209:ILE:HG21	2:NE:227:VAL:HA	1.81	0.62
1:NJ:324:LYS:HD3	2:NK:222:PRO:HG2	1.81	0.62
2:OA:173:PRO:HG3	2:OA:183:GLU:HG2	1.81	0.62
2:OC:167:LEU:HD13	2:OC:200:VAL:HB	1.80	0.62
2:OE:174:SER:OG	2:OE:177:VAL:O	2.13	0.62
2:PA:258:ASN:OD1	1:PB:179:VAL:HG22	1.99	0.62
2:PM:7:ILE:HB	2:PM:137:VAL:HG22	1.81	0.62
2:R:167:LEU:HD21	2:R:255:PHE:HE1	1.64	0.62
2:R:217:LEU:HD21	2:R:275:VAL:HG22	1.79	0.62
1:RK:326:VAL:O	1:RK:330:MET:HG2	1.99	0.62
2:SA:159:VAL:HG21	56:3d:231:TYR:HD1	1.63	0.62
1:SB:229:VAL:O	1:SB:233:MET:HG2	1.99	0.62
2:SC:286:LEU:O	2:SC:373:ARG:NH1	2.32	0.62
1:SJ:313:ALA:HB3	1:SJ:349:ILE:HG12	1.81	0.62
1:TB:392:LYS:HG3	1:TB:395:LEU:HD23	1.80	0.62
2:TK:104:ALA:HB2	2:TK:413:MET:HE3	1.81	0.62
1:TL:180:VAL:HG23	1:TL:184:ASN:HD21	1.64	0.62
2:UE:177:VAL:N	2:UE:207:GLU:OE2	2.29	0.62
2:UK:216:SER:OG	2:UK:275:VAL:O	2.16	0.62
2:UK:265:ILE:HG22	2:UK:380:ASN:HD21	1.64	0.62
2:VG:55:GLU:OE2	2:VG:61:HIS:NE2	2.32	0.62
2:VM:177:VAL:HG22	2:VM:207:GLU:OE2	1.98	0.62
2:WE:254:GLU:HG2	1:WF:98:GLY:HA2	1.81	0.62
3:XA:39:ASP:OD2	3:XA:129:TRP:NE1	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:XQ:150:VAL:HG13	4:XQ:187:ARG:HH12	1.64	0.62
17:0n:82:SER:HA	17:0n:85:LYS:HE3	1.81	0.62
23:1B:277:GLU:OE1	23:1B:295:LYS:NZ	2.27	0.62
24:1H:488:ASP:O	24:1H:525:HIS:ND1	2.31	0.62
24:1H:602:VAL:HG22	24:1H:606:ILE:HD12	1.81	0.62
26:1Q:510:LYS:O	26:1Q:514:GLU:HG2	1.99	0.62
37:2S:95:ASN:HD21	37:2S:153:SER:HB2	1.64	0.62
59:4a:201:TYR:HB2	59:4a:204:GLU:HB3	1.80	0.62
68:5S:103:LEU:HD11	68:5S:142:CYS:HA	1.81	0.62
2:AE:365:GLY:O	54:3Z:333:ARG:NH1	2.30	0.62
1:AJ:324:LYS:NZ	2:AK:222:PRO:O	2.32	0.62
2:AK:11:GLN:HG3	2:AK:74:VAL:HG11	1.80	0.62
1:B:359:LYS:HA	16:0k:781:ARG:HH22	1.63	0.62
1:CC:27:GLU:OE1	1:CC:241:ARG:NH1	2.32	0.62
1:CC:32:PRO:HG2	27:1S:383:PHE:HB3	1.81	0.62
1:DA:371:ASN:ND2	1:DA:373:CYS:SG	2.72	0.62
1:DC:19:LYS:O	1:DC:22:GLU:HB2	1.99	0.62
1:DC:74:ASP:OD1	1:DC:77:ARG:NH2	2.28	0.62
2:DD:174:SER:OG	2:DD:177:VAL:O	2.17	0.62
1:DM:36:TYR:OH	1:DM:43:GLN:NE2	2.31	0.62
2:EA:301:MET:HG2	2:EA:303:THR:H	1.65	0.62
1:EL:293:MET:SD	1:EL:367:PHE:HB2	2.38	0.62
1:F:290:THR:HA	1:F:293:MET:HE2	1.81	0.62
1:GB:11:GLN:NE2	69:GB:500:GDP:O1A	2.32	0.62
1:GL:190:HIS:HA	1:GL:193:VAL:HG12	1.80	0.62
1:H:156:ARG:NH1	1:H:195:ASN:O	2.32	0.62
2:II:39:ASP:HB2	12:0W:84:VAL:HB	1.79	0.62
2:IK:215:ARG:NH1	2:IK:216:SER:OG	2.32	0.62
1:IL:165:MET:SD	1:IL:200:MET:HE2	2.39	0.62
2:IM:173:PRO:HG3	2:IM:183:GLU:HG2	1.81	0.62
2:IM:195:LEU:HD11	2:IM:264:ARG:HE	1.64	0.62
1:JM:207:LEU:HB3	1:JM:225:LEU:HD22	1.80	0.62
1:KA:304:ASP:OD1	1:KA:306:ARG:NH2	2.32	0.62
2:KF:75:VAL:HG21	2:KF:94:SER:HB2	1.80	0.62
1:KK:208:TYR:HE2	1:KK:225:LEU:HD11	1.64	0.62
1:LA:311:LEU:HD23	1:LA:342:ILE:HD12	1.80	0.62
2:LF:437:ALA:O	1:LG:391:ARG:NH1	2.32	0.62
2:LH:370:LYS:NZ	19:0r:258:TYR:O	2.26	0.62
2:LL:214:ARG:NE	35:2O:128:SER:OG	2.26	0.62
1:LO:97:ALA:HB2	1:LO:143:THR:HB	1.79	0.62
1:MJ:279:GLN:HA	1:MJ:282:ARG:HG2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ML:327:ASP:HB3	2:MM:177:VAL:HG21	1.81	0.62
1:N:238:CYS:HB2	1:N:318:ARG:HH11	1.64	0.62
1:NH:379:ARG:O	1:NH:383:GLU:HG3	1.99	0.62
1:NJ:304:ASP:OD2	1:NJ:306:ARG:NH2	2.32	0.62
2:PC:277:SER:OG	22:1w:261:ARG:NH1	2.32	0.62
1:PH:252:LYS:HE2	1:PH:350:LYS:HZ1	1.64	0.62
1:PJ:268:MET:HE3	1:PJ:268:MET:HA	1.80	0.62
2:PK:259:LEU:HD21	2:PK:268:VAL:HG21	1.79	0.62
2:PM:167:LEU:HD13	2:PM:200:VAL:HB	1.80	0.62
1:QA:344:TRP:CD2	2:QB:401:LYS:HD2	2.34	0.62
2:QL:318:MET:O	2:QL:375:VAL:HA	1.99	0.62
2:R:244:PHE:HB2	2:R:356:ASN:HD21	1.61	0.62
2:RD:320:ARG:NH2	2:RD:358:GLN:OE1	2.28	0.62
1:RE:131:GLN:HG2	1:RE:250:LEU:HD12	1.81	0.62
1:RI:16:ILE:HD11	1:RI:229:VAL:HG11	1.81	0.62
2:RJ:196:GLU:HG3	2:RJ:197:HIS:HD1	1.63	0.62
1:T:253:LEU:HD21	1:T:316:LEU:HD21	1.79	0.62
1:UB:306:ARG:HG3	1:UB:340:TYR:HE2	1.63	0.62
2:UG:3:GLU:HA	2:UG:51:THR:HA	1.80	0.62
2:UK:298:PRO:HA	2:UK:301:MET:HE3	1.80	0.62
2:VA:187:CYS:O	2:VA:191:THR:HG23	1.99	0.62
2:VE:64:ARG:NH1	2:VE:129:CYS:SG	2.72	0.62
9:0M:513:LEU:HD21	9:0M:522:LEU:HD12	1.79	0.62
23:1B:317:ARG:NH1	44:2w:411:LYS:O	2.32	0.62
41:2l:311:GLN:O	41:2l:315:ARG:HG2	1.99	0.62
49:3P:310:LEU:O	49:3P:314:ILE:HG12	2.00	0.62
57:3g:77:PHE:O	57:3g:81:LYS:N	2.31	0.62
66:5L:152:ASN:ND2	66:5L:189:THR:O	2.32	0.62
67:5O:78:LEU:HD12	67:5O:105:VAL:HG21	1.81	0.62
2:AI:264:ARG:HD3	3:XD:115:LYS:HD2	1.81	0.62
1:AJ:77:ARG:HA	1:AJ:82:GLY:HA3	1.81	0.62
1:AJ:86:ARG:HG3	1:BJ:281:TYR:HB3	1.80	0.62
1:BF:61:PRO:HD3	1:BF:84:LEU:HG	1.81	0.62
2:BG:315:CYS:HB3	2:BG:377:MET:HE1	1.80	0.62
1:CA:309:ARG:NH2	1:CA:343:GLU:OE1	2.30	0.62
2:CB:97:GLU:OE1	2:CB:105:ARG:NH1	2.31	0.62
1:CE:68:LEU:HD12	1:CE:97:ALA:HB2	1.81	0.62
2:D:304:LYS:HD2	2:D:387:VAL:HG12	1.79	0.62
2:DB:326:LYS:HG2	1:DC:212:PHE:CE2	2.33	0.62
1:DC:322:SER:OG	2:DD:222:PRO:O	2.16	0.62
1:DG:163:ILE:HG21	1:DG:250:LEU:HB3	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DK:211:CYS:HB3	1:DK:220:PRO:HG3	1.81	0.62
2:DL:217:LEU:HD21	2:DL:275:VAL:HG22	1.81	0.62
1:ED:226:ASN:OD1	69:ED:500:GDP:N1	2.32	0.62
2:EK:257:THR:HA	1:EL:397:TRP:CZ2	2.34	0.62
1:F:66:MET:HB3	1:F:147:MET:HE1	1.81	0.62
1:FB:2:ARG:NH1	2:FC:72:PRO:HD2	2.14	0.62
2:FC:66:LEU:HD13	2:FC:122:ILE:HG12	1.82	0.62
1:FH:232:VAL:HG13	1:FH:268:MET:HE2	1.81	0.62
1:G:312:THR:HG21	2:GA:404:PHE:HZ	1.63	0.62
1:GD:184:ASN:OD1	1:GD:398:TYR:OH	2.17	0.62
2:GE:286:LEU:O	2:GE:373:ARG:NH1	2.25	0.62
1:GF:293:MET:HE1	1:GF:330:MET:HE1	1.81	0.62
2:HA:71:GLU:HB3	2:HA:98:ASP:HB3	1.81	0.62
1:HD:91:ILE:HD11	1:HD:119:VAL:HG21	1.80	0.62
2:HG:204:LEU:HD22	2:HG:231:ILE:HG12	1.81	0.62
2:HK:11:GLN:NE2	2:HK:15:GLN:HE21	1.97	0.62
1:IB:198:GLU:HB2	1:IB:266:PHE:HE2	1.64	0.62
1:IF:189:VAL:HG21	1:IF:415:MET:HG3	1.80	0.62
2:JB:296:PHE:CD2	2:JB:335:ILE:HG21	2.34	0.62
1:JE:237:THR:HG22	1:JE:250:LEU:HD11	1.80	0.62
1:KE:304:ASP:HB3	1:KE:307:HIS:CE1	2.34	0.62
1:KI:234:SER:O	1:KI:241:ARG:NH2	2.30	0.62
1:LE:27:GLU:OE2	1:LE:318:ARG:NH2	2.27	0.62
2:MC:27:GLU:OE1	2:MC:243:ARG:NH2	2.32	0.62
2:MI:273:ALA:HB3	2:MI:295:VAL:HG23	1.81	0.62
2:MM:183:GLU:HG3	2:MM:184:PRO:HD3	1.82	0.62
2:MM:298:PRO:HA	2:MM:301:MET:HE2	1.79	0.62
2:NE:392:ASP:HB2	2:NE:422:ARG:HH22	1.65	0.62
1:NH:293:MET:HE2	1:NH:367:PHE:HD1	1.64	0.62
2:NK:422:ARG:HH12	2:NK:426:ALA:HB2	1.64	0.62
2:NM:309:HIS:HA	60:3t:67:LYS:HE3	1.80	0.62
1:OB:205:GLU:OE1	1:OB:380:ARG:NH2	2.33	0.62
1:OF:48:ASN:O	1:OF:62:ARG:NH1	2.33	0.62
1:OJ:344:TRP:CG	2:OK:401:LYS:HZ3	2.17	0.62
2:OM:172:TYR:CE1	2:OM:203:MET:HG3	2.34	0.62
2:PG:237:SER:HA	2:PG:320:ARG:HD2	1.80	0.62
1:QE:48:ASN:O	1:QE:62:ARG:NH1	2.32	0.62
2:QH:212:LEU:HD21	2:QH:275:VAL:HG11	1.81	0.62
2:QJ:138:PHE:HZ	2:QJ:235:VAL:HG21	1.63	0.62
2:RF:237:SER:HA	2:RF:320:ARG:HD2	1.81	0.62
1:RI:8:GLN:HG3	1:RI:65:LEU:HG	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:RJ:76:ASP:OD1	2:RJ:79:ARG:NH1	2.32	0.62
2:RJ:431:ASP:HA	2:RJ:434:GLU:HG2	1.81	0.62
2:TA:265:ILE:HG21	2:TA:313:MET:HE1	1.80	0.62
1:TL:12:CYS:SG	1:TL:138:SER:OG	2.56	0.62
1:U:135:LEU:HD21	1:U:148:GLY:HA2	1.81	0.62
1:U:378:PHE:HB3	1:U:415:MET:HE1	1.82	0.62
2:UE:254:GLU:O	2:UE:258:ASN:ND2	2.31	0.62
1:V:155:LEU:HA	1:V:158:GLU:HG3	1.82	0.62
2:WM:328:VAL:O	2:WM:332:ILE:HG12	1.99	0.62
3:XA:21:PRO:HG3	3:XA:36:ARG:HD3	1.81	0.62
3:XC:47:LEU:HB3	3:XC:162:ILE:HB	1.81	0.62
6:0:161:ALA:HB3	33:2F:285:LYS:HA	1.80	0.62
9:0O:93:PHE:HE1	9:0O:100:LEU:HD12	1.63	0.62
20:0u:123:ASP:HA	23:1F:335:ASN:HD22	1.64	0.62
27:1S:624:LEU:HD13	27:1S:659:MET:HE1	1.81	0.62
1:A:316:LEU:HD23	1:A:352:SER:HB2	1.81	0.62
2:AC:195:LEU:HD12	2:AC:264:ARG:HD2	1.81	0.62
1:AD:4:ILE:HG22	1:AD:131:GLN:HB3	1.82	0.62
2:AG:209:ILE:HG12	2:AG:302:LEU:HD12	1.82	0.62
1:AJ:257:LEU:HA	1:AJ:312:THR:HG21	1.82	0.62
1:BJ:97:ALA:HB2	1:BJ:143:THR:HB	1.82	0.62
1:BJ:345:ILE:O	1:BJ:348:ASN:ND2	2.33	0.62
2:BK:70:LEU:HD13	2:BK:145:THR:HG23	1.81	0.62
1:CI:26:ASP:OD1	1:CI:27:GLU:N	2.31	0.62
1:CK:253:LEU:HD21	1:CK:316:LEU:HD21	1.82	0.62
2:DD:346:TRP:HB3	1:DE:391:ARG:HH11	1.65	0.62
1:DM:301:GLN:HE22	1:DM:303:ALA:HB3	1.65	0.62
2:EC:101:ASN:HD21	2:EC:180:ALA:HB1	1.63	0.62
2:FI:326:LYS:NZ	1:FJ:220:PRO:HG2	2.13	0.62
1:GD:208:TYR:HE2	1:GD:225:LEU:HD11	1.64	0.62
2:GE:274:PRO:HG2	2:GE:371:VAL:HG11	1.82	0.62
1:GF:214:THR:OG1	1:GF:297:LYS:NZ	2.25	0.62
1:GJ:50:TYR:OH	1:GJ:237:THR:OG1	2.16	0.62
2:HA:195:LEU:HD11	2:HA:428:LEU:HD21	1.81	0.62
1:HL:62:ARG:NH1	1:HL:127:CYS:SG	2.72	0.62
1:IB:44:LEU:HD13	20:0t:4:LYS:HA	1.80	0.62
1:ID:286:VAL:HG11	1:ID:325:GLU:HG2	1.81	0.62
2:IE:215:ARG:HH22	2:IE:299:ALA:C	2.07	0.62
1:IF:100:ASN:HB3	1:IF:103:LYS:HG2	1.79	0.62
2:JF:89:PRO:HB2	2:KF:280:LYS:HZ1	1.65	0.62
1:JG:324:LYS:HZ3	2:JH:222:PRO:HD2	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JG:413:SER:OG	60:3s:46:ARG:CD	2.46	0.62
1:KE:91:ILE:HD11	1:KE:119:VAL:HG21	1.82	0.62
2:KJ:257:THR:HG1	1:KK:397:TRP:CD1	2.18	0.62
1:KM:63:ALA:O	1:KM:89:ASN:ND2	2.32	0.62
1:KM:87:PRO:HD3	1:LM:281:TYR:HD2	1.63	0.62
2:LD:88:ASN:OD1	2:LD:89:PRO:HD2	2.00	0.62
2:MA:254:GLU:O	2:MA:258:ASN:ND2	2.32	0.62
2:MC:214:ARG:HD2	13:0Y:44:THR:HG21	1.80	0.62
1:MH:362:LYS:HB2	23:1B:383:ASN:HA	1.82	0.62
2:MK:195:LEU:HD13	2:MK:428:LEU:HD21	1.79	0.62
2:NA:372:GLN:HE22	2:NA:373:ARG:NH1	1.98	0.62
2:NC:67:PHE:HB2	2:NC:92:LEU:HD12	1.81	0.62
1:NF:66:MET:HE1	1:NF:151:LEU:HD22	1.82	0.62
2:NM:271:SER:HA	2:NM:302:LEU:HB2	1.80	0.62
2:OE:204:LEU:HD22	2:OE:231:ILE:HD12	1.82	0.62
2:OK:390:ARG:O	2:OK:394:LYS:HG3	1.99	0.62
1:PJ:276:ARG:NH1	1:PJ:276:ARG:O	2.31	0.62
2:Q:50:ASN:O	2:Q:64:ARG:NH1	2.32	0.62
2:R:332:ILE:O	2:R:336:LYS:HG2	1.99	0.62
2:RL:338:LYS:HD3	2:RL:340:THR:HG22	1.80	0.62
2:SA:316:CYS:HB3	2:SA:378:ILE:HG13	1.80	0.62
2:SE:71:GLU:HB3	2:SE:98:ASP:HB3	1.81	0.62
1:SJ:290:THR:HA	1:SJ:293:MET:HE3	1.80	0.62
1:TB:331:LEU:HD13	2:TC:177:VAL:HG22	1.80	0.62
2:TE:52:PHE:CZ	2:TE:239:THR:HG21	2.33	0.62
1:UF:247:ASN:H	2:UG:11:GLN:HE22	1.46	0.62
1:VH:46:ARG:NH2	2:VI:76:ASP:OD2	2.33	0.62
2:VI:116:ASP:OD1	2:VI:117:LEU:N	2.31	0.62
2:WE:224:TYR:HA	2:WE:227:VAL:HG22	1.81	0.62
24:1J:192:LYS:HZ1	24:1J:198:VAL:H	1.48	0.62
25:1O:481:VAL:HG22	25:1O:492:ILE:HG12	1.81	0.62
26:1Q:239:ARG:HB3	26:1Q:243:ARG:NH1	2.13	0.62
34:2L:77:PHE:O	34:2L:81:VAL:HG23	1.99	0.62
41:2h:364:ASN:O	41:2h:368:HIS:ND1	2.33	0.62
47:3D:347:TRP:HZ3	47:3D:360:ARG:HG3	1.64	0.62
28:4V:252:ILE:HB	28:4W:19:VAL:HG12	1.80	0.62
67:5P:91:PHE:HE2	67:5P:94:LEU:HB2	1.64	0.62
2:BA:174:SER:OG	2:BA:177:VAL:O	2.16	0.62
2:BC:122:ILE:HG21	2:BC:157:LEU:HD21	1.80	0.62
2:BG:271:SER:HA	2:BG:302:LEU:HG	1.80	0.62
1:BL:238:CYS:HB2	1:BL:318:ARG:HH11	1.62	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BM:258:ASN:HD22	1:BN:99:ASN:HD22	1.47	0.62
2:CD:67:PHE:HB2	2:CD:92:LEU:HD12	1.82	0.62
1:ED:19:LYS:HA	1:ED:22:GLU:HG2	1.80	0.62
2:FG:211:ASP:O	2:FG:215:ARG:HG2	1.99	0.62
2:GE:174:SER:OG	2:GE:177:VAL:O	2.16	0.62
2:HK:204:LEU:HD22	2:HK:231:ILE:HD12	1.81	0.62
2:HK:274:PRO:HD2	2:HK:374:ALA:HA	1.81	0.62
1:I:262:ARG:NH1	1:I:417:ASP:OD2	2.31	0.62
1:ID:375:GLN:OE1	1:ID:379:ARG:NH2	2.32	0.62
1:JC:322:SER:OG	2:JD:222:PRO:O	2.17	0.62
1:JE:173:PRO:HG3	1:JE:384:GLN:HE22	1.64	0.62
1:JI:267:MET:N	1:JI:369:GLY:O	2.24	0.62
1:JK:153:SER:HA	1:JK:195:ASN:ND2	2.14	0.62
2:JN:27:GLU:OE1	2:JN:243:ARG:NH2	2.30	0.62
1:KC:244:GLY:HA2	1:KC:355:ASP:HB2	1.82	0.62
2:KD:98:ASP:O	2:KD:105:ARG:NH1	2.33	0.62
2:KN:215:ARG:NH2	2:KN:299:ALA:O	2.32	0.62
2:LB:49:PHE:HD2	2:LB:53:PHE:HB2	1.63	0.62
1:LC:61:PRO:HD3	1:LC:84:LEU:HG	1.80	0.62
1:LI:48:ASN:O	1:LI:62:ARG:NH1	2.33	0.62
2:LJ:76:ASP:OD1	2:LJ:79:ARG:NH2	2.31	0.62
1:LK:257:LEU:HD13	1:LK:368:ILE:HG21	1.81	0.62
1:LO:232:VAL:HG13	1:LO:268:MET:HE2	1.81	0.62
1:MD:218:THR:OG1	23:1A:168:ASP:OD1	2.16	0.62
2:MG:203:MET:HE3	2:MG:203:MET:HA	1.81	0.62
2:MK:265:ILE:HG22	2:MK:380:ASN:HD21	1.64	0.62
1:N:345:ILE:HD12	2:NA:398:MET:HE1	1.81	0.62
1:NB:150:LEU:O	1:NB:154:LYS:HG2	1.99	0.62
2:NK:174:SER:OG	2:NK:177:VAL:O	2.18	0.62
2:OG:364:PRO:HD2	28:1h:50:LYS:HD3	1.81	0.62
2:OK:250:VAL:HA	2:OK:254:GLU:HG3	1.80	0.62
1:OL:386:THR:O	1:OL:390:ARG:HD2	1.98	0.62
1:P:198:GLU:HB2	1:P:266:PHE:CE2	2.34	0.62
2:PE:174:SER:OG	2:PE:177:VAL:O	2.17	0.62
1:QA:336:LYS:HG2	59:4a:140:ILE:HG21	1.79	0.62
2:QH:326:LYS:HZ1	1:QI:220:PRO:C	2.06	0.62
2:QJ:67:PHE:HB2	2:QJ:92:LEU:HD12	1.82	0.62
2:QL:250:VAL:HG21	2:QL:318:MET:HE1	1.79	0.62
2:RB:250:VAL:HG11	2:RB:318:MET:HE1	1.80	0.62
2:RD:53:PHE:HB3	2:RD:61:HIS:HB3	1.81	0.62
2:RF:434:GLU:OE1	58:3m:99:LEU:HD13	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SA:263:PRO:N	56:3d:216:ARG:HH22	1.97	0.62
1:T:276:ARG:HG2	21:0w:451:LEU:HD11	1.81	0.62
2:TA:178:SER:OG	2:TA:183:GLU:OE1	2.16	0.62
1:TL:35:THR:HG23	1:TL:37:GLN:HE22	1.64	0.62
1:UB:299:MET:HE1	1:UB:367:PHE:CE2	2.34	0.62
1:UD:46:ARG:NH2	2:UE:76:ASP:OD2	2.32	0.62
1:UH:186:THR:HG22	1:UH:411:ALA:HB1	1.81	0.62
1:V:42:LEU:HD22	1:V:356:ILE:HD11	1.81	0.62
1:V:45:GLU:OE2	1:V:46:ARG:NH1	2.32	0.62
1:V:316:LEU:HD13	1:V:352:SER:HB2	1.82	0.62
1:V:385:PHE:HE2	1:V:412:GLU:HB3	1.63	0.62
2:VC:170:THR:HG21	2:VC:194:LEU:HD21	1.80	0.62
2:VC:229:ARG:HE	2:VC:363:VAL:HG21	1.63	0.62
1:VH:229:VAL:HG12	1:VH:300:MET:HE1	1.80	0.62
2:VI:224:TYR:HA	2:VI:227:VAL:HG22	1.81	0.62
1:WB:282:ARG:HH12	1:WB:292:GLN:NE2	1.98	0.62
2:WE:44:VAL:HG13	2:WE:45:GLU:OE1	1.99	0.62
1:WJ:49:VAL:HG11	1:WJ:241:ARG:HG2	1.81	0.62
9:0M:12:LEU:HD11	9:0M:617:MET:HB2	1.81	0.62
9:0N:26:LEU:HD21	9:0N:35:LEU:HD22	1.82	0.62
9:0N:581:ARG:HG2	9:0N:628:GLY:HA2	1.80	0.62
21:0w:64:THR:HA	21:0w:70:GLU:HG3	1.81	0.62
23:1B:270:MET:O	23:1B:276:ASN:ND2	2.21	0.62
24:1K:734:ARG:HB3	24:1K:740:SER:HB2	1.82	0.62
31:1q:24:LEU:HD21	35:2N:201:GLY:HA3	1.82	0.62
33:2G:20:LEU:HB3	33:2G:82:LYS:HB3	1.81	0.62
34:2L:52:ASP:OD1	34:2L:55:ARG:NH2	2.29	0.62
34:2L:97:LEU:HD21	34:2L:127:PHE:HE1	1.65	0.62
35:2O:33:GLU:O	35:2O:37:ILE:HG12	1.99	0.62
38:2U:137:LEU:O	38:2U:141:THR:HG23	1.99	0.62
47:3D:248:PHE:HB3	47:3D:253:VAL:HB	1.81	0.62
49:3P:372:MET:O	49:3P:376:ASP:HB2	2.00	0.62
53:3X:51:ALA:HA	53:3X:55:ILE:HG12	1.82	0.62
1:AJ:272:PRO:HD3	1:AJ:364:SER:HA	1.80	0.62
2:BG:254:GLU:CD	1:BH:98:GLY:HA2	2.25	0.62
2:BI:278:ALA:HB3	16:0l:802:SER:HB3	1.80	0.62
1:CC:326:VAL:HG21	1:CC:353:ILE:HD11	1.81	0.62
2:CH:155:GLU:OE2	2:CH:197:HIS:ND1	2.32	0.62
1:DE:204:ASN:ND2	69:DE:500:GDP:O2'	2.32	0.62
1:DE:345:ILE:O	1:DE:348:ASN:ND2	2.33	0.62
2:EG:9:ILE:HG22	2:EG:146:GLY:HA2	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FB:251:ARG:NH1	2:FC:97:GLU:OE2	2.32	0.62
1:FJ:331:LEU:HG	1:FJ:335:ASN:HD21	1.64	0.62
2:FK:88:ASN:OD1	2:FK:89:PRO:HD2	2.00	0.62
2:FK:406:HIS:HA	2:FK:409:VAL:HG12	1.81	0.62
1:FL:211:CYS:HB3	1:FL:220:PRO:CG	2.30	0.62
1:GF:48:ASN:O	1:GF:62:ARG:NH2	2.33	0.62
2:GI:308:ARG:HH22	59:4P:6:VAL:HG22	1.65	0.62
1:H:257:LEU:HD21	1:H:314:SER:HB2	1.81	0.62
1:HB:313:ALA:HB1	1:HB:367:PHE:HE1	1.63	0.62
1:HD:309:ARG:NH1	1:HD:339:SER:O	2.32	0.62
2:HK:345:ASP:OD2	2:HK:346:TRP:N	2.31	0.62
1:I:309:ARG:NH2	1:I:343:GLU:OE2	2.31	0.62
2:IC:318:MET:O	2:IC:375:VAL:HA	2.00	0.62
1:ID:268:MET:HE1	1:ID:366:THR:HB	1.80	0.62
2:IG:63:PRO:O	2:IG:91:GLN:NE2	2.28	0.62
2:JN:416:GLY:HA3	2:NM:308:ARG:NH2	2.15	0.62
2:KJ:209:ILE:HG12	2:KJ:302:LEU:HD22	1.81	0.62
2:KL:180:ALA:HB3	2:KL:183:GLU:HB2	1.80	0.62
2:KL:419:SER:OG	31:1s:65:ARG:NH2	2.32	0.62
1:KM:73:MET:HB3	1:KM:90:PHE:HD2	1.64	0.62
2:L:206:ASN:OD1	71:L:501:GTP:O2'	2.18	0.62
2:LB:11:GLN:OE1	2:LB:15:GLN:NE2	2.30	0.62
1:LG:390:ARG:HH22	48:3G:63:SER:HB3	1.65	0.62
1:MF:247:ASN:OD1	2:MG:11:GLN:NE2	2.33	0.62
2:MI:105:ARG:NH1	5:XP:93:SER:OG	2.32	0.62
1:MJ:375:GLN:HB2	1:MJ:419:VAL:HG23	1.81	0.62
2:NC:91:GLN:H	2:NC:121:ARG:HH11	1.47	0.62
2:NK:241:SER:OG	2:NK:250:VAL:O	2.14	0.62
1:OD:355:ASP:OD1	28:1g:220:ALA:N	2.27	0.62
2:OI:195:LEU:HD13	2:OI:267:PHE:HE1	1.64	0.62
1:OJ:240:LEU:HD11	1:OJ:249:ASP:HA	1.82	0.62
1:QK:4:ILE:HD11	1:QK:134:GLN:HB2	1.82	0.62
2:R:32:PRO:HA	2:R:86:LEU:HD12	1.81	0.62
1:RI:356:ILE:HD13	28:1Y:108:PHE:HZ	1.63	0.62
2:RJ:120:ASP:OD1	2:RJ:121:ARG:N	2.32	0.62
2:SE:11:GLN:HG3	2:SE:74:VAL:HG11	1.81	0.62
2:SE:431:ASP:OD1	58:3m:144:ARG:NH1	2.31	0.62
2:SI:159:VAL:O	61:3x:55:ARG:NH1	2.32	0.62
1:TJ:66:MET:SD	1:TJ:147:MET:HE3	2.40	0.62
1:TJ:163:ILE:O	1:TJ:164:MET:HE2	2.00	0.62
1:TL:149:THR:HA	1:TL:152:ILE:HD12	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UF:323:THR:HG22	2:UG:223:SER:HA	1.82	0.62
2:UK:228:ASN:OD1	71:UK:501:GTP:N1	2.31	0.62
1:V:60:VAL:HG11	1:V:86:ARG:HG3	1.82	0.62
1:VF:67:ASP:OD1	1:VF:68:LEU:N	2.33	0.62
2:WE:177:VAL:N	2:WE:207:GLU:OE2	2.26	0.62
1:WL:67:ASP:O	1:WL:92:PHE:HA	1.99	0.62
1:WL:256:ASN:HD21	2:WM:101:ASN:HD22	1.44	0.62
4:XO:134:ILE:HD12	4:XO:176:LEU:HD22	1.81	0.62
8:0I:166:ASP:HA	8:0I:169:MET:HE2	1.82	0.62
24:1H:699:ARG:NH1	24:1H:704:LEU:O	2.31	0.62
26:1Q:672:ILE:HG12	26:1Q:736:ARG:HG2	1.82	0.62
38:2U:121:GLU:OE2	38:2U:125:GLN:NE2	2.33	0.62
64:5D:97:LEU:HD11	65:5I:87:LYS:HA	1.80	0.62
2:AA:3:GLU:OE2	2:AA:129:CYS:HB3	1.99	0.62
1:AD:236:VAL:HG13	1:AD:237:THR:HG23	1.81	0.62
1:B:237:THR:HG22	1:B:250:LEU:HD21	1.81	0.62
2:BM:241:SER:OG	2:BM:250:VAL:O	2.14	0.62
1:CC:23:VAL:O	1:CC:27:GLU:HG3	2.00	0.62
2:CH:172:TYR:CD1	2:CH:203:MET:HG3	2.33	0.62
2:CJ:215:ARG:HH12	2:CJ:299:ALA:HB1	1.64	0.62
1:EJ:77:ARG:HH22	24:1J:469:GLY:HA3	1.64	0.62
1:FB:293:MET:HG3	1:FB:367:PHE:HB2	1.82	0.62
2:GC:339:ARG:HH12	59:4O:168:PRO:HD2	1.63	0.62
1:GL:211:CYS:HB3	1:GL:220:PRO:HG3	1.81	0.62
1:HJ:249:ASP:H	1:HJ:252:LYS:HB2	1.64	0.62
1:HL:8:GLN:O	1:HL:66:MET:HB3	2.00	0.62
1:IB:236:VAL:HG13	1:IB:237:THR:HG23	1.82	0.62
2:JJ:238:LEU:HD11	2:JJ:378:ILE:HG13	1.81	0.62
1:KC:311:LEU:HA	1:KC:342:ILE:HD12	1.80	0.62
2:KH:54:SER:HB3	2:KH:64:ARG:HE	1.64	0.62
1:KI:347:ASN:ND2	2:KJ:178:SER:O	2.33	0.62
1:LG:113:ILE:HG13	1:LG:117:LEU:HD23	1.81	0.62
1:LI:267:MET:HE1	1:LI:305:PRO:HG3	1.79	0.62
2:LJ:217:LEU:HD21	2:LJ:275:VAL:HG22	1.81	0.62
2:LL:331:ALA:O	2:LL:335:ILE:HG12	2.00	0.62
1:LO:152:ILE:HG23	1:LO:164:MET:HE3	1.80	0.62
1:M:162:ARG:NH2	2:MA:97:GLU:OE1	2.30	0.62
1:M:257:LEU:HD13	1:M:368:ILE:HG21	1.80	0.62
1:MB:99:ASN:HD21	1:MB:178:THR:HG23	1.63	0.62
1:MD:309:ARG:HG3	1:MD:426:GLN:HG3	1.81	0.62
2:ME:248:LEU:HB2	2:ME:355:ILE:H	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MM:269:LEU:HD21	2:MM:305:CYS:HB3	1.81	0.62
1:NB:51:PHE:HB3	1:NB:59:TYR:HB3	1.82	0.62
1:NL:100:ASN:HB3	1:NL:103:LYS:HG2	1.82	0.62
2:NM:211:ASP:O	2:NM:215:ARG:HG2	1.99	0.62
1:OD:314:SER:HB3	1:OD:368:ILE:HB	1.82	0.62
1:OF:10:GLY:O	1:OF:14:ASN:ND2	2.32	0.62
1:OL:213:ARG:HH22	1:OL:297:LYS:HG3	1.64	0.62
1:PB:165:MET:HE3	1:PB:250:LEU:HD22	1.82	0.62
2:PE:101:ASN:OD1	2:PE:186:ASN:ND2	2.31	0.62
2:PK:258:ASN:OD1	1:PL:179:VAL:HG22	1.99	0.62
1:QA:356:ILE:HG23	28:1b:37:PHE:CE1	2.35	0.62
2:QF:431:ASP:O	2:QF:435:VAL:HG13	1.99	0.62
1:QG:378:PHE:HD2	1:QG:418:LEU:HD22	1.65	0.62
2:QL:295:VAL:HG21	2:QL:375:VAL:HG13	1.81	0.62
2:RF:319:TYR:HB3	2:RF:323:VAL:HG21	1.81	0.62
2:RJ:197:HIS:CE1	57:3h:122:ARG:HH12	2.18	0.62
2:SC:100:ALA:O	2:SC:102:ASN:ND2	2.31	0.62
1:SF:380:ARG:HG2	1:SF:380:ARG:HH11	1.63	0.62
1:SH:347:ASN:ND2	2:SI:178:SER:O	2.32	0.62
2:SI:234:VAL:HG21	2:SI:302:LEU:HD22	1.80	0.62
2:TA:11:GLN:HG3	2:TA:74:VAL:HG11	1.82	0.62
1:TB:313:ALA:HB3	1:TB:349:ILE:HG12	1.82	0.62
2:TE:237:SER:HA	2:TE:320:ARG:HD2	1.81	0.62
1:V:268:MET:HB3	1:V:300:MET:HE3	1.82	0.62
3:XD:74:PRO:HD2	3:XD:169:ASP:HA	1.82	0.62
5:XP:23:PRO:HD3	5:XP:127:VAL:HB	1.82	0.62
9:0M:327:VAL:HA	9:0M:344:CYS:HB3	1.82	0.62
23:1E:83:GLU:HA	23:1E:86:ASP:OD2	2.00	0.62
36:2Q:219:TYR:N	36:2Q:237:ILE:O	2.30	0.62
37:2S:194:SER:OG	37:2S:197:ASN:OD1	2.18	0.62
41:2l:398:LYS:NZ	41:2l:402:GLU:OE2	2.30	0.62
45:2y:220:ASP:OD1	45:2y:221:TRP:N	2.33	0.62
1:AF:249:ASP:H	1:AF:252:LYS:HB3	1.63	0.62
2:AG:98:ASP:OD1	2:AG:99:ALA:N	2.32	0.62
2:AM:215:ARG:NH2	2:AM:299:ALA:O	2.32	0.62
1:BD:276:ARG:NH2	27:1S:127:GLU:OE1	2.33	0.62
1:BL:289:LEU:HD11	1:BL:363:MET:HG3	1.81	0.62
2:CD:367:ASP:HA	16:0k:441:ARG:HH12	1.64	0.62
2:CF:212:LEU:HD21	2:CF:275:VAL:HG11	1.81	0.62
1:EB:73:MET:HA	1:EB:73:MET:HE3	1.81	0.62
2:EC:50:ASN:O	2:EC:64:ARG:NH1	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EE:7:ILE:HB	2:EE:137:VAL:HG12	1.82	0.62
1:F:113:ILE:HG13	1:F:117:LEU:HD23	1.82	0.62
1:FH:135:LEU:HG	1:FH:137:HIS:HD2	1.63	0.62
1:GB:322:SER:OG	1:GB:325:GLU:OE1	2.18	0.62
2:GC:11:GLN:O	2:GC:15:GLN:HG2	1.99	0.62
2:GC:215:ARG:NH2	2:GC:299:ALA:O	2.33	0.62
1:GH:121:ARG:NH1	65:5H:137:GLN:HG3	2.14	0.62
1:GH:306:ARG:NH2	1:GH:340:TYR:OH	2.30	0.62
2:GK:174:SER:HB3	2:GK:177:VAL:O	2.00	0.62
1:HB:317:PHE:HE2	1:HB:326:VAL:HG13	1.64	0.62
1:HD:253:LEU:HD11	1:HD:316:LEU:HD21	1.82	0.62
2:HI:50:ASN:O	2:HI:64:ARG:NH1	2.32	0.62
2:IK:248:LEU:HB2	2:IK:355:ILE:H	1.64	0.62
1:JI:46:ARG:HH21	2:JJ:73:THR:HA	1.65	0.62
1:JK:318:ARG:HB3	1:JK:357:PRO:HA	1.81	0.62
2:JN:423:GLU:OE1	60:3t:71:LYS:NZ	2.26	0.62
2:K:203:MET:HA	2:K:203:MET:HE3	1.82	0.62
2:KJ:56:THR:HG23	2:KJ:58:ALA:H	1.64	0.62
1:LC:204:ASN:OD1	69:LC:500:GDP:O2'	2.18	0.62
1:LC:347:ASN:ND2	2:LD:178:SER:OG	2.32	0.62
2:LL:174:SER:HB2	2:LL:207:GLU:HB2	1.82	0.62
2:LN:116:ASP:OD1	2:LN:117:LEU:N	2.33	0.62
2:MA:271:SER:HB3	2:MA:301:MET:HG2	1.82	0.62
1:MB:421:GLU:HG2	33:2F:122:THR:HG21	1.82	0.62
1:MD:324:LYS:NZ	2:ME:210:TYR:HB3	2.14	0.62
2:NE:67:PHE:HB2	2:NE:92:LEU:HD12	1.81	0.62
1:NF:139:LEU:HD12	1:NF:170:ILE:HG12	1.81	0.62
1:O:322:SER:OG	2:OA:222:PRO:O	2.12	0.62
2:OE:174:SER:HB2	2:OE:207:GLU:HG3	1.81	0.62
2:OK:28:HIS:CE1	2:OK:243:ARG:HD2	2.33	0.62
2:QD:2:ARG:H	2:QD:131:GLY:HA3	1.63	0.62
2:R:395:PHE:HE2	2:R:422:ARG:HD3	1.64	0.62
2:RB:172:TYR:CD2	2:RB:203:MET:HG2	2.35	0.62
2:RD:8:HIS:HD1	2:RD:17:GLY:HA3	1.63	0.62
1:RI:392:LYS:NZ	1:RI:405:GLU:OE2	2.28	0.62
2:RL:259:LEU:O	2:RL:380:ASN:ND2	2.33	0.62
1:SJ:326:VAL:HG22	1:SJ:330:MET:HE1	1.82	0.62
1:T:58:ARG:NH1	1:U:280:GLN:OE1	2.33	0.62
2:TA:71:GLU:HB3	2:TA:98:ASP:HB3	1.82	0.62
2:TA:172:TYR:HD2	2:TA:203:MET:HG3	1.62	0.62
1:TB:186:THR:HG23	1:TB:415:MET:HG3	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:TE:215:ARG:HD2	61:3w:237:PRO:HG3	1.81	0.62
2:TG:237:SER:HA	2:TG:320:ARG:HD2	1.81	0.62
1:UB:163:ILE:HG21	1:UB:250:LEU:HB3	1.81	0.62
2:UC:174:SER:OG	2:UC:177:VAL:O	2.16	0.62
1:V:139:LEU:HG	1:V:168:SER:HB2	1.80	0.62
1:WL:219:THR:H	14:0d:317:ARG:HH21	1.46	0.62
1:WL:272:PRO:HD3	1:WL:364:SER:HA	1.81	0.62
4:XR:168:GLU:HG3	4:XR:173:TYR:HB3	1.81	0.62
9:0L:222:ASP:OD2	9:0L:237:GLN:NE2	2.30	0.62
9:0N:432:ASN:ND2	9:0N:478:ASP:OD1	2.33	0.62
9:0N:470:ASN:ND2	9:0N:510:PHE:O	2.32	0.62
11:0U:153:GLU:HB2	11:0U:157:LYS:HE2	1.80	0.62
24:1K:95:LEU:HB2	24:1K:122:PHE:HB3	1.81	0.62
34:2L:64:GLN:NE2	34:2L:113:CYS:SG	2.72	0.62
42:2r:106:PRO:HG3	42:2r:139:VAL:HG13	1.82	0.62
46:3B:213:ARG:HH21	46:3B:221:VAL:HG13	1.64	0.62
48:3F:101:ASP:O	48:3F:104:GLN:HG3	1.99	0.62
57:3f:147:CYS:HA	57:3f:150:ARG:HH21	1.64	0.62
1:AF:359:LYS:HE3	54:3Z:395:GLY:HA3	1.82	0.62
2:AM:288:VAL:HB	2:AM:327:ASP:HB3	1.81	0.62
1:AN:323:THR:HA	1:AN:326:VAL:HG12	1.82	0.62
1:B:316:LEU:HD23	1:B:352:SER:HB2	1.82	0.62
2:BM:316:CYS:HA	2:BM:352:LYS:HB2	1.82	0.62
1:BN:163:ILE:HD11	1:BN:251:ARG:HG3	1.82	0.62
1:CE:66:MET:HE3	1:CE:116:VAL:HG21	1.81	0.62
1:E:412:GLU:HA	1:E:415:MET:HG3	1.82	0.62
1:EB:65:LEU:HB3	1:EB:73:MET:HE1	1.81	0.62
2:EC:204:LEU:HD13	2:EC:231:ILE:HD12	1.81	0.62
1:ED:371:ASN:ND2	1:ED:373:CYS:SG	2.63	0.62
1:EF:235:GLY:HA3	1:EF:366:THR:HG21	1.81	0.62
1:EH:236:VAL:HG13	1:EH:237:THR:HG23	1.82	0.62
2:EI:237:SER:HA	2:EI:320:ARG:HD2	1.81	0.62
2:FA:311:LYS:HE2	2:FA:344:VAL:HA	1.80	0.62
1:FD:318:ARG:HB3	1:FD:357:PRO:HA	1.81	0.62
1:G:14:ASN:HD21	1:G:67:ASP:HB2	1.65	0.62
1:GD:178:THR:HB	1:GD:181:GLU:HG3	1.82	0.62
2:GG:71:GLU:HB3	2:GG:98:ASP:HB3	1.81	0.62
2:HA:170:THR:HG21	2:HA:194:LEU:HD21	1.80	0.62
1:HB:362:LYS:NZ	17:0n:389:ASP:OD2	2.33	0.62
1:HH:63:ALA:O	1:HH:89:ASN:ND2	2.30	0.62
1:HL:153:SER:HB3	1:HL:191:GLN:HE21	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IH:173:PRO:HD2	1:IH:380:ARG:HH22	1.64	0.62
2:IM:51:THR:HG23	2:IM:52:PHE:HD1	1.65	0.62
1:JA:63:ALA:O	1:JA:89:ASN:ND2	2.30	0.62
2:KB:237:SER:HA	2:KB:320:ARG:HD2	1.80	0.62
1:KG:165:MET:HE1	1:KG:236:VAL:HG21	1.82	0.62
1:KG:322:SER:OG	2:KH:222:PRO:O	2.18	0.62
2:KH:292:THR:HG21	2:KH:331:ALA:HB1	1.82	0.62
1:KK:347:ASN:ND2	2:KL:178:SER:OG	2.31	0.62
1:LA:27:GLU:OE2	1:LA:318:ARG:NH2	2.23	0.62
1:LE:334:GLN:HE21	1:LE:349:ILE:HG13	1.64	0.62
2:LN:155:GLU:O	33:2I:235:ASN:ND2	2.33	0.62
1:LO:5:VAL:HG23	1:LO:62:ARG:HG2	1.82	0.62
2:MI:205:ASP:OD1	2:MI:303:THR:HA	1.99	0.62
1:MJ:331:LEU:HD21	2:MK:176:GLN:HB3	1.80	0.62
1:ND:236:VAL:HG13	1:ND:237:THR:HG23	1.81	0.62
1:NF:19:LYS:HE2	1:NF:223:GLY:HA2	1.81	0.62
1:NJ:232:VAL:HG22	1:NJ:268:MET:HE2	1.81	0.62
2:NK:188:VAL:O	2:NK:191:THR:OG1	2.18	0.62
1:NL:59:TYR:HE2	41:2o:154:ASN:HD21	1.48	0.62
1:O:134:GLN:HE22	1:O:136:SER:HB3	1.65	0.62
1:OH:347:ASN:ND2	2:OI:178:SER:O	2.32	0.62
2:OM:315:CYS:SG	2:OM:377:MET:HE1	2.39	0.62
1:PH:262:ARG:HH12	1:PH:421:GLU:HG3	1.65	0.62
2:QF:11:GLN:HG3	2:QF:74:VAL:HG11	1.82	0.62
2:QJ:183:GLU:HG2	2:QJ:184:PRO:HD3	1.81	0.62
2:R:392:ASP:HA	2:R:395:PHE:HB3	1.82	0.62
1:RA:66:MET:HE3	1:RA:116:VAL:HG21	1.82	0.62
2:RH:366:GLY:O	41:2e:262:ARG:NH1	2.33	0.62
1:RI:322:SER:OG	2:RJ:222:PRO:O	2.18	0.62
2:RJ:326:LYS:CE	1:RK:220:PRO:HD2	2.30	0.62
2:SG:269:LEU:HD22	2:SG:303:THR:HG21	1.82	0.62
2:SI:76:ASP:OD1	2:SI:79:ARG:NH2	2.30	0.62
1:U:83:GLN:O	1:V:281:TYR:OH	2.18	0.62
1:UB:290:THR:HA	1:UB:293:MET:HB2	1.82	0.62
2:UE:317:LEU:HD23	2:UE:377:MET:HB2	1.80	0.62
2:UG:71:GLU:HB3	2:UG:98:ASP:HB3	1.82	0.62
2:UG:324:VAL:HG11	2:UG:326:LYS:HE2	1.80	0.62
1:UJ:321:MET:HG2	1:UJ:363:MET:HE2	1.82	0.62
1:VH:77:ARG:NH1	1:VH:83:GLN:OE1	2.33	0.62
5:XN:34:PRO:HB2	5:XN:37:TRP:HB3	1.82	0.62
9:0L:610:VAL:HG12	9:0L:616:VAL:HG22	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:0Z:230:ASN:OD1	13:0Z:234:GLN:NE2	2.33	0.62
24:1I:339:THR:HG23	24:1I:341:GLU:H	1.65	0.62
28:1d:187:TYR:O	28:1d:191:TYR:HB2	2.00	0.62
31:1r:245:LEU:HD22	22:1x:243:VAL:HG13	1.80	0.62
41:2h:394:ARG:HH21	41:2h:395:ARG:HH12	1.46	0.62
44:2w:12:ASP:O	44:2w:18:ARG:NH1	2.32	0.62
49:3P:446:GLU:HG3	49:3P:533:VAL:HA	1.82	0.62
57:3f:27:LEU:HD23	57:3f:30:ARG:HD3	1.81	0.62
57:3i:83:GLU:HB3	57:3i:87:LYS:NZ	2.15	0.62
64:5C:175:GLU:HA	64:5C:178:LEU:HD13	1.80	0.62
1:AF:324:LYS:NZ	2:AG:210:TYR:HB3	2.14	0.62
2:AG:188:VAL:O	2:AG:191:THR:OG1	2.18	0.62
2:BA:324:VAL:HG21	1:BB:219:THR:HB	1.82	0.62
1:BD:159:TYR:HB3	1:BD:162:ARG:HG3	1.80	0.62
1:BJ:324:LYS:HE2	2:BK:222:PRO:HG2	1.82	0.62
1:BL:66:MET:HE2	1:BL:147:MET:HG2	1.80	0.62
1:CA:214:THR:OG1	1:CA:297:LYS:NZ	2.33	0.62
2:CD:326:LYS:NZ	1:CE:220:PRO:HD2	2.15	0.62
1:CM:372:THR:O	1:CM:375:GLN:HG2	2.00	0.62
1:DC:86:ARG:NH1	1:EB:281:TYR:O	2.33	0.62
2:EG:211:ASP:HA	2:EG:214:ARG:HG2	1.81	0.62
1:F:330:MET:HE2	1:F:349:ILE:HG21	1.81	0.62
2:FC:88:ASN:OD1	2:FC:89:PRO:HD2	2.00	0.62
1:FF:167:PHE:CE2	1:FF:200:MET:HE3	2.34	0.62
1:FF:248:SER:HA	1:FF:252:LYS:HD2	1.82	0.62
2:FI:67:PHE:HB2	2:FI:92:LEU:HD12	1.81	0.62
2:FI:254:GLU:O	2:FI:258:ASN:ND2	2.31	0.62
2:FI:326:LYS:HE3	1:FJ:208:TYR:HD2	1.64	0.62
2:FK:175:PRO:HB3	2:FK:390:ARG:NE	2.14	0.62
1:GD:239:CYS:HB3	1:GD:247:ASN:HB2	1.82	0.62
1:HB:245:GLN:HE21	2:HC:224:TYR:HB2	1.65	0.62
1:HL:335:ASN:HB3	64:5D:99:LYS:HE3	1.82	0.62
2:IA:192:HIS:ND1	2:IA:424:ASP:OD2	2.32	0.62
1:ID:375:GLN:HB2	1:ID:419:VAL:HG23	1.80	0.62
2:IE:422:ARG:HH12	2:IE:426:ALA:HB2	1.65	0.62
1:JC:68:LEU:HD12	1:JC:97:ALA:HB2	1.82	0.62
1:JC:198:GLU:HA	1:JC:264:HIS:HB2	1.80	0.62
1:JC:347:ASN:HD22	2:JD:178:SER:HB3	1.65	0.62
2:JH:67:PHE:HB2	2:JH:92:LEU:HD12	1.82	0.62
2:JH:71:GLU:HB3	2:JH:98:ASP:HB3	1.80	0.62
1:JK:263:LEU:HD22	1:JK:422:TYR:CE2	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KC:200:MET:HG3	1:KC:268:MET:HE3	1.82	0.62
2:KH:104:ALA:HB2	2:KH:413:MET:HE3	1.82	0.62
2:KH:234:VAL:HG21	2:KH:302:LEU:HD11	1.82	0.62
1:KI:290:THR:HA	1:KI:293:MET:HE2	1.82	0.62
2:KJ:352:LYS:NZ	1:KK:99:ASN:OD1	2.33	0.62
1:KK:83:GLN:HE21	49:3Q:203:ARG:HE	1.48	0.62
2:KL:377:MET:HE3	2:KL:379:ALA:HB2	1.81	0.62
2:LB:51:THR:HG21	2:LB:243:ARG:HG2	1.82	0.62
2:LF:84:ARG:HG3	2:LF:85:GLN:HG2	1.82	0.62
1:LG:204:ASN:OD1	69:LG:500:GDP:O2'	2.17	0.62
1:MB:332:ASN:OD1	1:MB:336:LYS:NZ	2.27	0.62
2:ME:213:THR:HG22	2:ME:217:LEU:HD12	1.82	0.62
1:ML:236:VAL:HG13	1:ML:237:THR:HG23	1.82	0.62
2:NE:119:LEU:HB3	2:NE:123:ARG:NH1	2.13	0.62
1:OB:46:ARG:HH22	2:OC:73:THR:HA	1.65	0.62
1:OH:301:GLN:HE22	1:OH:303:ALA:HB3	1.64	0.62
1:OH:387:GLY:HA2	1:OH:390:ARG:NH1	2.15	0.62
2:PI:406:HIS:HA	2:PI:409:VAL:HG22	1.82	0.62
2:Q:3:GLU:OE2	2:Q:131:GLY:N	2.33	0.62
1:QC:60:VAL:HG21	1:QC:86:ARG:HG3	1.82	0.62
2:QH:254:GLU:O	2:QH:258:ASN:ND2	2.33	0.62
2:RD:3:GLU:HA	2:RD:51:THR:HA	1.81	0.62
2:RD:406:HIS:HA	2:RD:409:VAL:HG12	1.81	0.62
2:RH:90:GLU:OE1	2:SG:280:LYS:NZ	2.27	0.62
1:RK:73:MET:HE2	1:RK:92:PHE:HB3	1.80	0.62
1:S:152:ILE:HG12	1:S:164:MET:HE2	1.81	0.62
1:SD:113:ILE:HG13	1:SD:117:LEU:HD23	1.82	0.62
1:SH:208:TYR:HE1	1:SH:225:LEU:HD11	1.64	0.62
2:SI:3:GLU:HA	2:SI:51:THR:HA	1.82	0.62
1:T:345:ILE:HG23	1:T:348:ASN:ND2	2.14	0.62
2:TG:258:ASN:HD22	1:TH:179:VAL:HG22	1.63	0.62
2:TI:272:TYR:HD1	2:TI:376:CYS:HB2	1.65	0.62
1:TL:226:ASN:HA	1:TL:229:VAL:HG22	1.82	0.62
2:UI:47:ASP:O	2:UI:50:ASN:ND2	2.33	0.62
1:VB:292:GLN:HG2	1:VB:298:ASN:ND2	2.15	0.62
1:VF:178:THR:HB	1:VF:181:GLU:HG3	1.81	0.62
1:VL:42:LEU:HD22	1:VL:356:ILE:HD11	1.81	0.62
2:WI:188:VAL:O	2:WI:191:THR:OG1	2.16	0.62
2:WI:234:VAL:HG21	2:WI:302:LEU:HD11	1.82	0.62
8:0F:50:GLY:HA3	8:0F:55:HIS:CD2	2.27	0.62
9:0L:484:ALA:HB1	9:0L:510:PHE:HB3	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:0O:131:ASP:OD1	9:0O:133:THR:HG22	2.00	0.62
21:0v:110:GLN:O	21:0v:114:LYS:HG2	2.00	0.62
24:1J:114:ARG:HD2	24:1J:141:PHE:HZ	1.65	0.62
27:1T:627:TYR:HE1	27:1T:631:ARG:HG3	1.65	0.62
39:2X:172:ALA:O	39:2X:176:THR:OG1	2.18	0.62
46:3B:53:PHE:HA	46:3B:80:ASN:HD21	1.64	0.62
53:3X:59:HIS:O	53:3X:63:LYS:NZ	2.32	0.62
67:5O:53:ARG:NH1	67:5O:56:CYS:SG	2.73	0.62
1:AH:375:GLN:NE2	1:AH:423:GLN:OE1	2.33	0.61
2:AI:332:ILE:O	2:AI:336:LYS:HG2	2.00	0.61
1:BD:375:GLN:OE1	1:BD:379:ARG:NH2	2.32	0.61
1:BN:330:MET:HE2	1:BN:349:ILE:HD12	1.82	0.61
2:CJ:237:SER:HA	2:CJ:320:ARG:HD2	1.80	0.61
2:CL:142:GLY:HA3	2:CL:183:GLU:OE2	2.00	0.61
2:DD:345:ASP:OD1	2:DD:346:TRP:N	2.33	0.61
1:DE:129:CYS:SG	2:DF:96:LYS:NZ	2.65	0.61
2:DH:195:LEU:HD21	2:DH:428:LEU:HD22	1.81	0.61
1:EB:27:GLU:OE2	1:EB:318:ARG:NH2	2.33	0.61
1:EL:152:ILE:HG22	1:EL:195:ASN:HB3	1.81	0.61
1:FJ:268:MET:HA	1:FJ:268:MET:HE3	1.82	0.61
1:FL:311:LEU:HD13	1:FL:342:ILE:HD11	1.81	0.61
2:GA:2:ARG:O	2:GA:51:THR:OG1	2.19	0.61
1:GB:35:THR:HG23	1:GB:37:GLN:HE22	1.65	0.61
1:GF:15:GLN:NE2	69:GF:500:GDP:O6	2.33	0.61
2:HA:262:TYR:OH	1:HB:391:ARG:O	2.17	0.61
1:HB:46:ARG:NH2	2:HC:76:ASP:OD2	2.33	0.61
1:HD:20:PHE:HZ	1:HD:50:TYR:HE2	1.47	0.61
1:HF:334:GLN:NE2	1:HF:349:ILE:HG13	2.15	0.61
1:HJ:156:ARG:NH1	1:HJ:160:PRO:O	2.33	0.61
2:IG:226:ASN:ND2	2:IG:367:ASP:OD1	2.33	0.61
1:JA:139:LEU:HG	1:JA:168:SER:HB2	1.82	0.61
2:JB:174:SER:OG	2:JB:177:VAL:O	2.14	0.61
2:JH:270:THR:HG23	2:JH:302:LEU:HB2	1.81	0.61
2:JN:361:THR:HG22	15:0g:67:PRO:HD2	1.82	0.61
1:KM:68:LEU:HB3	1:KM:96:GLY:HA2	1.80	0.61
1:LG:186:THR:HG23	1:LG:415:MET:HG3	1.82	0.61
2:LJ:435:VAL:CG1	22:0z:147:THR:HG21	2.19	0.61
2:LN:423:GLU:CG	6:0A:250:LEU:HD21	2.26	0.61
1:MB:198:GLU:HA	1:MB:264:HIS:HB2	1.81	0.61
1:MF:390:ARG:HB3	33:2G:140:LEU:HD13	1.81	0.61
1:MJ:130:LEU:O	1:MJ:162:ARG:NH1	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MJ:203:ASP:OD2	1:MJ:205:GLU:HG2	2.00	0.61
2:MK:229:ARG:HD3	2:MK:363:VAL:HG21	1.82	0.61
1:ML:280:GLN:NE2	45:2z:112:GLY:O	2.33	0.61
2:NC:265:ILE:HG22	2:NC:380:ASN:HD21	1.65	0.61
2:NK:33:ASP:OD1	2:NK:34:GLY:N	2.33	0.61
2:OC:239:THR:HG23	2:OC:243:ARG:HE	1.65	0.61
2:OE:89:PRO:HB2	2:PE:280:LYS:HZ1	1.65	0.61
1:PD:324:LYS:O	1:PD:328:GLU:HG2	2.00	0.61
1:PF:313:ALA:HB3	1:PF:349:ILE:HG12	1.82	0.61
2:PG:291:ILE:HG22	2:PG:375:VAL:HG12	1.82	0.61
1:QG:121:ARG:NH1	1:QG:158:GLU:OE1	2.33	0.61
1:QK:327:ASP:HB3	2:QL:177:VAL:HG21	1.81	0.61
2:RF:318:MET:O	2:RF:375:VAL:HA	2.00	0.61
1:SD:56:GLY:HA2	21:0w:299:SER:HB2	1.82	0.61
1:SF:152:ILE:HG22	1:SF:195:ASN:HB3	1.82	0.61
2:SG:53:PHE:HB3	2:SG:61:HIS:HB3	1.82	0.61
1:TD:256:ASN:HD21	2:TE:101:ASN:HD22	1.48	0.61
2:TE:5:ILE:HD13	2:TE:64:ARG:HB3	1.81	0.61
2:TG:72:PRO:O	2:TG:76:ASP:HB2	1.99	0.61
1:TL:167:PHE:CE2	1:TL:233:MET:HG3	2.35	0.61
1:UF:8:GLN:HE22	1:UF:21:TRP:HE1	1.48	0.61
2:UG:319:TYR:HB3	2:UG:323:VAL:HG21	1.82	0.61
1:UL:131:GLN:HE22	1:UL:250:LEU:HB2	1.63	0.61
2:VG:127:ASP:OD1	2:VG:128:ASN:N	2.33	0.61
1:WB:190:HIS:HB2	1:WB:414:ASN:HD22	1.65	0.61
2:WG:71:GLU:HB3	2:WG:98:ASP:HB3	1.82	0.61
7:0D:46:THR:OG1	7:0D:51:ARG:NE	2.32	0.61
9:0L:55:GLU:OE1	9:0L:98:ARG:NH1	2.31	0.61
16:0k:57:LEU:HD12	16:0k:61:GLU:HG3	1.81	0.61
22:1x:43:HIS:HE1	22:1x:106:CYS:SG	2.14	0.61
41:2c:320:LYS:O	41:2c:323:GLN:HG3	2.00	0.61
47:3D:191:ARG:NH2	47:3D:259:GLU:OE2	2.33	0.61
1:A:253:LEU:HD21	1:A:316:LEU:HD21	1.83	0.61
1:AB:272:PRO:HD3	1:AB:364:SER:HA	1.82	0.61
1:AB:377:MET:HG3	1:AB:378:PHE:HD2	1.64	0.61
2:AE:2:ARG:HH11	1:AF:70:PRO:HG2	1.65	0.61
1:BF:318:ARG:HB3	1:BF:357:PRO:HA	1.82	0.61
2:BI:332:ILE:O	2:BI:336:LYS:HG2	2.00	0.61
1:CA:272:PRO:HD3	1:CA:364:SER:HA	1.82	0.61
2:CD:240:ALA:HA	2:CD:243:ARG:HB2	1.81	0.61
1:CG:276:ARG:HH12	25:1O:346:ARG:HE	1.45	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DI:204:ASN:OD1	69:DI:500:GDP:O2'	2.18	0.61
1:DM:371:ASN:ND2	1:DM:373:CYS:SG	2.73	0.61
2:EA:89:PRO:HG2	2:FA:280:LYS:HG2	1.82	0.61
1:EF:19:LYS:HG3	1:EF:226:ASN:HB2	1.81	0.61
1:EF:268:MET:HA	1:EF:268:MET:HE3	1.82	0.61
2:EK:224:TYR:HA	2:EK:227:VAL:HG22	1.82	0.61
1:EL:78:ALA:HB2	24:1K:470:LYS:HG3	1.82	0.61
2:FC:81:GLY:HA3	28:4W:43:TYR:HE2	1.64	0.61
1:G:247:ASN:C	1:G:247:ASN:HD22	2.08	0.61
1:GF:371:ASN:ND2	1:GF:373:CYS:SG	2.74	0.61
1:GH:202:ILE:HD12	1:GH:300:MET:HE2	1.81	0.61
2:GI:27:GLU:OE2	2:GI:243:ARG:NH2	2.32	0.61
2:HG:88:ASN:OD1	2:HG:89:PRO:HD2	2.00	0.61
2:IE:117:LEU:HD11	19:0r:21:PRO:HG2	1.82	0.61
1:IF:345:ILE:HG23	2:IG:398:MET:HE1	1.82	0.61
2:JD:75:VAL:HG21	2:JD:94:SER:HB3	1.81	0.61
1:JI:67:ASP:HA	1:JI:143:THR:HG21	1.82	0.61
2:KD:141:VAL:HG11	2:KD:194:LEU:HD11	1.82	0.61
1:KE:3:GLU:HG2	1:KE:127:CYS:SG	2.39	0.61
1:KG:144:GLY:N	69:KG:500:GDP:O2B	2.32	0.61
2:KJ:64:ARG:NH1	2:KJ:129:CYS:SG	2.73	0.61
2:MA:151:ALA:O	2:MA:155:GLU:HG3	1.99	0.61
1:MB:204:ASN:OD1	69:MB:500:GDP:O2'	2.17	0.61
1:MH:66:MET:HE1	1:MH:151:LEU:HD22	1.82	0.61
1:MN:375:GLN:HB2	1:MN:419:VAL:HG23	1.81	0.61
2:NA:167:LEU:HD13	2:NA:200:VAL:HB	1.83	0.61
2:NA:209:ILE:HD12	2:NA:227:VAL:HG13	1.82	0.61
2:NK:250:VAL:HA	2:NK:254:GLU:HG2	1.82	0.61
2:NK:326:LYS:HA	2:NK:329:ASN:HB2	1.81	0.61
1:OB:286:VAL:HG22	1:OB:363:MET:HE1	1.81	0.61
2:OC:269:LEU:HD13	2:OC:301:MET:HE1	1.81	0.61
1:OH:324:LYS:HZ1	2:OI:222:PRO:HB2	1.64	0.61
1:OL:322:SER:HA	2:OM:223:SER:HB2	1.82	0.61
2:PC:26:LEU:HD22	2:PC:363:VAL:HG12	1.81	0.61
1:PH:222:PHE:HD1	1:PH:225:LEU:HD12	1.64	0.61
1:PH:301:GLN:NE2	1:PH:377:MET:HE2	2.14	0.61
2:QB:102:ASN:HB3	2:QB:105:ARG:HB2	1.82	0.61
2:QF:116:ASP:OD1	2:QF:117:LEU:N	2.33	0.61
2:QF:203:MET:HA	2:QF:203:MET:HE3	1.82	0.61
1:QG:256:ASN:HD21	2:QH:101:ASN:HD22	1.46	0.61
2:QJ:137:VAL:HG21	2:QJ:154:LEU:HD21	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:269:LEU:HD12	2:R:301:MET:HE1	1.82	0.61
2:RB:31:GLN:NE2	28:1X:195:GLU:OE2	2.32	0.61
1:RC:66:MET:HG2	1:RC:147:MET:HE1	1.81	0.61
2:RD:64:ARG:NH1	2:RD:129:CYS:SG	2.73	0.61
1:SB:178:THR:HB	1:SB:181:GLU:HG3	1.83	0.61
1:SJ:347:ASN:ND2	2:SK:180:ALA:O	2.33	0.61
2:TC:228:ASN:HA	2:TC:231:ILE:HG22	1.82	0.61
1:TH:8:GLN:HG2	1:TH:17:GLY:HA3	1.82	0.61
2:TK:133:GLN:NE2	2:TK:251:ASP:OD2	2.34	0.61
1:UB:347:ASN:ND2	2:UC:178:SER:O	2.33	0.61
2:UE:325:PRO:O	2:UE:329:ASN:ND2	2.33	0.61
2:VC:127:ASP:OD1	2:VC:128:ASN:N	2.33	0.61
2:VE:295:VAL:HG21	2:VE:375:VAL:HG13	1.80	0.61
1:VL:290:THR:HA	1:VL:293:MET:HG2	1.82	0.61
1:WH:198:GLU:HB2	1:WH:266:PHE:HE2	1.64	0.61
1:WH:322:SER:OG	2:WI:222:PRO:O	2.15	0.61
3:XE:74:PRO:HD2	3:XE:169:ASP:HA	1.82	0.61
6:0A:139:PHE:CD1	14:0d:207:LYS:HD2	2.36	0.61
9:0L:481:CYS:HB2	9:0L:495:LEU:HD11	1.82	0.61
9:0L:566:VAL:HG21	9:0L:607:ILE:HG21	1.81	0.61
11:0U:295:LEU:HA	46:3B:23:GLN:NE2	2.15	0.61
27:1S:338:ARG:NH2	27:1S:373:ASP:OD2	2.34	0.61
28:1g:254:LEU:HG	28:1h:19:VAL:HG21	1.80	0.61
33:2F:215:SER:HA	33:2F:218:ARG:HG3	1.83	0.61
36:2Q:116:THR:HG21	36:2Q:140:VAL:HG23	1.83	0.61
57:3i:79:ASN:O	57:3i:83:GLU:HG2	2.00	0.61
59:4a:270:ARG:HA	59:4a:273:ARG:HD2	1.82	0.61
1:A:207:LEU:HB3	1:A:225:LEU:HD22	1.81	0.61
1:BB:252:LYS:HD3	2:BC:100:ALA:HA	1.82	0.61
1:BH:280:GLN:HE22	25:1O:113:GLU:HB3	1.64	0.61
1:BN:293:MET:HE1	1:BN:315:ALA:HB2	1.81	0.61
2:CF:269:LEU:HD13	2:CF:301:MET:HE3	1.82	0.61
2:DB:188:VAL:HG23	2:DB:189:LEU:HD12	1.82	0.61
2:DF:234:VAL:HG21	2:DF:302:LEU:HD11	1.82	0.61
1:E:322:SER:OG	2:EA:222:PRO:O	2.18	0.61
2:FC:75:VAL:HG13	2:FC:92:LEU:HG	1.83	0.61
2:FE:195:LEU:HD21	2:FE:264:ARG:HE	1.65	0.61
1:FF:236:VAL:HG13	1:FF:237:THR:HG23	1.82	0.61
2:FK:152:LEU:O	2:FK:156:ARG:HG2	2.00	0.61
2:FK:174:SER:OG	2:FK:177:VAL:O	2.17	0.61
1:GB:70:PRO:HA	1:GB:73:MET:HE2	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GD:183:TYR:OH	1:GD:393:ALA:O	2.07	0.61
1:GF:45:GLU:OE2	1:GF:46:ARG:NH1	2.33	0.61
1:GH:208:TYR:CE1	1:GH:225:LEU:HD21	2.36	0.61
2:HA:5:ILE:HD12	2:HA:125:LEU:HD23	1.81	0.61
1:HF:232:VAL:HG23	1:HF:366:THR:HG23	1.81	0.61
1:I:139:LEU:HD12	1:I:170:ILE:HG22	1.82	0.61
1:ID:139:LEU:HG	1:ID:168:SER:HB2	1.81	0.61
2:JJ:67:PHE:HB2	2:JJ:92:LEU:HD12	1.82	0.61
2:JN:9:ILE:HG22	2:JN:146:GLY:HA2	1.82	0.61
2:JN:286:LEU:O	2:JN:373:ARG:NH1	2.34	0.61
1:KG:27:GLU:OE2	1:KG:318:ARG:NH2	2.30	0.61
1:KM:34:GLY:HA3	1:KM:58:ARG:HG3	1.82	0.61
1:KM:346:PRO:O	2:KN:394:LYS:NZ	2.33	0.61
1:LE:253:LEU:HD21	1:LE:316:LEU:HD11	1.81	0.61
1:LE:306:ARG:NH1	35:2N:212:GLY:O	2.34	0.61
2:LL:220:GLU:HG2	2:LL:221:ARG:HG2	1.82	0.61
1:M:301:GLN:NE2	1:M:303:ALA:O	2.27	0.61
2:MC:203:MET:HA	2:MC:203:MET:HE3	1.82	0.61
2:ME:75:VAL:HG21	2:ME:94:SER:HB2	1.81	0.61
2:MM:370:LYS:HG2	23:1B:239:PHE:CD1	2.36	0.61
1:N:251:ARG:NH2	2:NA:105:ARG:HD2	2.14	0.61
2:OM:175:PRO:HG3	2:OM:390:ARG:HE	1.65	0.61
1:P:252:LYS:HZ2	2:PA:100:ALA:HB1	1.64	0.61
2:PC:326:LYS:HG3	1:PD:220:PRO:HD2	1.82	0.61
1:PH:56:GLY:HA2	41:2h:161:TYR:HD2	1.64	0.61
1:PH:186:THR:HG23	1:PH:415:MET:HG3	1.82	0.61
1:QG:112:LEU:HD22	1:QG:147:MET:HE1	1.82	0.61
2:QJ:265:ILE:HG22	2:QJ:380:ASN:HD21	1.65	0.61
1:RA:152:ILE:HG22	1:RA:195:ASN:HB3	1.81	0.61
2:RF:345:ASP:OD2	2:RF:346:TRP:N	2.32	0.61
2:RL:422:ARG:HH11	2:RL:422:ARG:HA	1.65	0.61
1:SD:139:LEU:HD12	1:SD:170:ILE:HG22	1.80	0.61
1:TD:11:GLN:N	69:TD:500:GDP:O1B	2.33	0.61
2:TG:295:VAL:HG21	2:TG:375:VAL:HG13	1.82	0.61
1:TH:247:ASN:ND2	2:TI:73:THR:OG1	2.33	0.61
1:UB:322:SER:OG	2:UC:222:PRO:O	2.18	0.61
1:UL:99:ASN:HD21	1:UL:178:THR:HG21	1.65	0.61
1:VF:232:VAL:HB	1:VF:268:MET:HE2	1.81	0.61
2:VG:439:SER:HB3	1:VH:391:ARG:HD2	1.82	0.61
1:VH:150:LEU:O	1:VH:154:LYS:HG2	2.00	0.61
1:VL:215:LEU:HB3	1:VL:217:LEU:HD23	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:67:ASP:HA	1:W:143:THR:HG21	1.82	0.61
2:WA:173:PRO:HG3	2:WA:183:GLU:HG2	1.82	0.61
3:XE:21:PRO:HG3	3:XE:36:ARG:HD2	1.81	0.61
6:0A:97:VAL:HG12	6:0A:99:ASP:H	1.65	0.61
7:0D:270:VAL:HG13	7:0D:274:LEU:HD23	1.81	0.61
15:0g:48:THR:HG23	15:0g:51:SER:H	1.64	0.61
23:1E:262:SER:O	23:1E:266:MET:HG2	2.01	0.61
29:1j:70:PHE:O	29:1j:84:GLN:NE2	2.33	0.61
33:2G:173:GLN:NE2	33:2G:178:PHE:O	2.32	0.61
37:2S:42:VAL:HB	37:2S:234:LYS:HD3	1.82	0.61
41:2h:291:VAL:HG22	41:2h:295:HIS:CE1	2.36	0.61
49:3Q:517:THR:HG22	49:3Q:522:PRO:HA	1.82	0.61
64:5B:77:CYS:HA	64:5B:80:MET:HG2	1.82	0.61
64:5C:245:LEU:HB2	65:5H:243:MET:HE1	1.82	0.61
68:5T:91:CYS:SG	68:5T:94:CYS:HB2	2.39	0.61
1:AF:389:PHE:HZ	1:AF:405:GLU:HG3	1.65	0.61
2:AK:402:ARG:HG3	4:XQ:302:SER:HA	1.82	0.61
1:BL:237:THR:HG22	1:BL:250:LEU:HD21	1.82	0.61
2:C:2:ARG:NH2	2:C:47:ASP:O	2.34	0.61
2:CH:173:PRO:HB3	2:CH:183:GLU:HG2	1.81	0.61
1:CK:221:THR:HG23	1:CK:223:GLY:H	1.65	0.61
1:DC:385:PHE:HE2	1:DC:412:GLU:HB2	1.64	0.61
1:DM:2:ARG:N	1:DM:129:CYS:O	2.33	0.61
1:E:78:ALA:HB2	24:1H:470:LYS:HG3	1.82	0.61
2:EI:254:GLU:OE2	1:EJ:98:GLY:N	2.30	0.61
1:EL:328:GLU:OE2	1:EL:329:GLN:NE2	2.33	0.61
2:FI:79:ARG:NH2	2:FI:92:LEU:O	2.33	0.61
2:FK:219:ILE:HB	2:FK:222:PRO:HG3	1.81	0.61
1:FL:268:MET:HE3	1:FL:269:GLY:H	1.64	0.61
1:GD:326:VAL:HG11	1:GD:353:ILE:HD11	1.80	0.61
2:HC:212:LEU:HD21	2:HC:275:VAL:HG11	1.81	0.61
2:HK:67:PHE:HB2	2:HK:92:LEU:HD12	1.81	0.61
1:IJ:2:ARG:HH22	1:IJ:46:ARG:HH12	1.48	0.61
2:IM:195:LEU:HD12	2:IM:428:LEU:HD13	1.82	0.61
2:JJ:271:SER:HB3	2:JJ:301:MET:HA	1.82	0.61
1:JK:67:ASP:OD1	1:JK:68:LEU:N	2.33	0.61
1:JK:200:MET:HE2	1:JK:268:MET:SD	2.40	0.61
2:JN:132:LEU:O	2:JN:164:LYS:NZ	2.23	0.61
1:KC:26:ASP:HB2	20:0t:160:PHE:HE2	1.65	0.61
2:KJ:270:THR:HG23	2:KJ:302:LEU:HB2	1.83	0.61
1:LC:113:ILE:HG12	1:LC:117:LEU:HD23	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LD:392:ASP:HB3	2:LD:425:LEU:HD23	1.83	0.61
1:LE:165:MET:HE1	1:LE:198:GLU:OE2	2.01	0.61
2:LH:220:GLU:HB3	2:LH:221:ARG:HE	1.64	0.61
1:MD:307:HIS:HE1	32:2B:238:VAL:O	1.84	0.61
1:MD:322:SER:OG	2:ME:222:PRO:O	2.19	0.61
2:ME:169:TYR:HA	2:ME:202:THR:HB	1.82	0.61
1:MH:336:LYS:NZ	32:2C:214:MET:HE1	2.15	0.61
1:NF:232:VAL:HG23	1:NF:366:THR:HB	1.82	0.61
1:NH:170:ILE:N	1:NH:202:ILE:O	2.30	0.61
1:NL:167:PHE:CD2	1:NL:233:MET:HE1	2.35	0.61
1:OD:150:LEU:O	1:OD:154:LYS:HG2	1.99	0.61
2:OG:212:LEU:HD21	2:OG:275:VAL:HG11	1.82	0.61
1:OJ:113:ILE:HG13	1:OJ:117:LEU:HD23	1.81	0.61
1:PB:324:LYS:HZ1	2:PC:222:PRO:N	1.97	0.61
2:Q:386:GLU:OE2	2:Q:390:ARG:NH1	2.33	0.61
1:QI:2:ARG:HH22	2:QJ:73:THR:HG23	1.64	0.61
1:QI:320:ARG:NH2	28:1b:190:GLU:OE2	2.33	0.61
2:QL:5:ILE:HD13	2:QL:64:ARG:HB3	1.82	0.61
1:RA:178:THR:OG1	1:RA:181:GLU:OE2	2.14	0.61
1:RG:67:ASP:O	1:RG:92:PHE:HA	2.00	0.61
1:RG:309:ARG:HH21	1:RG:342:ILE:HA	1.63	0.61
2:RJ:51:THR:HG21	2:RJ:243:ARG:HG2	1.81	0.61
2:SK:217:LEU:HD21	2:SK:367:ASP:HB2	1.82	0.61
2:TG:258:ASN:HD21	1:TH:180:VAL:HG22	1.66	0.61
2:UG:224:TYR:HA	2:UG:227:VAL:HG22	1.81	0.61
1:VB:324:LYS:HD3	2:VC:222:PRO:HD2	1.82	0.61
2:VC:328:VAL:O	2:VC:332:ILE:HG12	2.00	0.61
1:VF:27:GLU:OE1	1:VF:241:ARG:NH2	2.34	0.61
1:WH:60:VAL:HG11	1:WH:86:ARG:HE	1.65	0.61
2:WK:192:HIS:ND1	2:WK:424:ASP:OD2	2.33	0.61
8:0G:132:ASN:OD1	8:0G:133:ARG:N	2.34	0.61
11:0U:131:GLN:OE1	11:0U:142:GLN:NE2	2.32	0.61
23:1A:56:LYS:HD3	40:2Z:324:ARG:HH12	1.66	0.61
22:1y:189:GLU:O	22:1y:192:GLN:HG3	2.00	0.61
33:2G:5:TYR:HE1	33:2G:67:VAL:HG21	1.65	0.61
39:2X:11:TYR:OH	59:4a:276:GLU:OE1	2.16	0.61
41:2h:389:MET:O	41:2h:393:ASN:ND2	2.27	0.61
53:3W:252:TYR:CD1	53:3W:259:ARG:HD3	2.34	0.61
2:AE:258:ASN:HD22	1:AF:179:VAL:HG22	1.65	0.61
1:AL:337:ASN:HB3	1:AL:340:TYR:HD2	1.65	0.61
2:AM:390:ARG:O	2:AM:394:LYS:HG3	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:385:PHE:HE2	1:AN:412:GLU:HB2	1.65	0.61
1:B:322:SER:OG	2:BA:222:PRO:O	2.18	0.61
2:BC:50:ASN:O	2:BC:64:ARG:NH1	2.33	0.61
2:BM:53:PHE:HB3	2:BM:61:HIS:HB3	1.83	0.61
1:DA:132:GLY:HA2	1:DA:162:ARG:HB3	1.82	0.61
1:DM:22:GLU:HG2	1:DM:81:TYR:CD2	2.35	0.61
1:EB:19:LYS:HD3	1:EB:226:ASN:HB2	1.81	0.61
2:FE:295:VAL:HG21	2:FE:375:VAL:HG13	1.83	0.61
1:HF:253:LEU:HD22	1:HF:368:ILE:HG21	1.83	0.61
1:HH:339:SER:OG	65:5H:139:LEU:HD21	2.01	0.61
2:IA:11:GLN:HG3	2:IA:74:VAL:HG11	1.82	0.61
1:IB:69:GLU:HG2	1:IB:71:GLY:H	1.65	0.61
2:II:178:SER:OG	2:II:183:GLU:OE1	2.16	0.61
1:IL:286:VAL:HB	1:IL:363:MET:HE1	1.83	0.61
2:J:90:GLU:OE2	2:J:121:ARG:NE	2.33	0.61
1:JK:320:ARG:NH1	52:3U:232:ASP:OD2	2.32	0.61
2:JN:219:ILE:HG23	2:JN:222:PRO:HD3	1.82	0.61
2:KH:114:ILE:HD13	35:2N:256:TRP:CZ3	2.34	0.61
1:KK:55:SER:HB2	23:1E:89:ASP:HB2	1.82	0.61
1:LE:226:ASN:OD1	69:LE:500:GDP:N1	2.27	0.61
1:LI:200:MET:HE1	1:LI:368:ILE:HD12	1.81	0.61
1:LM:268:MET:H	1:LM:299:MET:HE1	1.64	0.61
1:LO:66:MET:HE1	1:LO:151:LEU:HD22	1.83	0.61
2:MM:431:ASP:HB3	33:2I:146:HIS:CE1	2.35	0.61
1:ND:309:ARG:NH1	1:ND:341:PHE:O	2.33	0.61
2:NE:117:LEU:O	2:NE:121:ARG:HG2	1.99	0.61
2:OE:387:VAL:HG23	2:OE:390:ARG:HH12	1.66	0.61
2:PA:185:TYR:HE2	2:PA:404:PHE:HB2	1.64	0.61
2:PE:133:GLN:NE2	2:PE:251:ASP:HB3	2.14	0.61
1:PJ:87:PRO:HD3	1:QI:281:TYR:HD2	1.65	0.61
2:Q:2:ARG:HB2	2:Q:51:THR:HG22	1.83	0.61
2:Q:159:VAL:HG13	57:3f:86:ARG:NH2	2.15	0.61
2:QF:206:ASN:OD1	71:QF:501:GTP:N2	2.33	0.61
1:QK:192:LEU:O	1:QK:196:SER:HB3	2.00	0.61
1:RG:331:LEU:HD11	2:RH:176:GLN:HB3	1.83	0.61
1:RI:331:LEU:HD22	2:RJ:177:VAL:HB	1.82	0.61
1:SJ:236:VAL:HG13	1:SJ:237:THR:HG23	1.81	0.61
1:T:3:GLU:O	1:T:131:GLN:N	2.33	0.61
2:UC:254:GLU:O	2:UC:258:ASN:ND2	2.30	0.61
1:UH:222:PHE:HD1	1:UH:225:LEU:HD12	1.65	0.61
1:VB:395:LEU:HD11	1:VB:408:PHE:CE2	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VD:342:ILE:HD11	1:VD:345:ILE:HD12	1.82	0.61
1:VF:239:CYS:SG	1:VF:352:SER:OG	2.57	0.61
9:0N:13:GLU:HG3	9:0N:606:LYS:HZ1	1.64	0.61
23:1A:243:LEU:O	23:1A:247:GLN:HG2	1.99	0.61
23:1A:266:MET:O	23:1A:270:MET:HG3	2.00	0.61
24:1H:531:ILE:HG23	24:1H:577:LEU:HD11	1.81	0.61
24:1H:678:HIS:O	24:1H:681:THR:OG1	2.17	0.61
26:1Q:564:ASN:O	26:1Q:568:VAL:HG23	2.01	0.61
28:1a:237:PRO:HB2	28:1b:22:ILE:HG22	1.82	0.61
40:2Z:33:VAL:HG13	40:2Z:244:GLU:HG3	1.82	0.61
49:3Q:325:ILE:HD11	49:3Q:455:CYS:HB3	1.82	0.61
2:AG:396:ASP:OD1	3:XC:53:ASN:ND2	2.33	0.61
1:AH:347:ASN:ND2	2:AI:178:SER:OG	2.33	0.61
1:AN:85:PHE:HB2	1:AN:90:PHE:HE1	1.65	0.61
2:C:174:SER:OG	2:C:177:VAL:O	2.18	0.61
2:CH:27:GLU:OE1	2:CH:243:ARG:NH1	2.33	0.61
2:D:285:GLN:HE22	2:D:287:SER:HB2	1.64	0.61
2:D:377:MET:HE2	2:D:379:ALA:HB2	1.82	0.61
2:DH:67:PHE:HB2	2:DH:92:LEU:HD12	1.83	0.61
2:DJ:11:GLN:HG3	2:DJ:74:VAL:HG11	1.83	0.61
1:DK:284:LEU:HD23	1:DK:362:LYS:HB3	1.83	0.61
2:EE:88:ASN:HB3	2:EE:91:GLN:HG2	1.81	0.61
2:EE:251:ASP:H	2:EE:254:GLU:HG3	1.66	0.61
2:EG:301:MET:HG3	2:EG:303:THR:H	1.66	0.61
1:EH:209:ASP:OD1	1:EH:213:ARG:NE	2.30	0.61
1:EH:385:PHE:CE2	1:EH:412:GLU:HG3	2.35	0.61
2:EK:69:ASP:OD2	2:EK:70:LEU:N	2.33	0.61
1:FB:347:ASN:ND2	2:FC:178:SER:O	2.32	0.61
1:FH:347:ASN:ND2	2:FI:178:SER:OG	2.33	0.61
1:G:213:ARG:HH21	1:G:297:LYS:HD3	1.66	0.61
2:GG:388:PHE:HA	2:GG:391:ILE:HG22	1.82	0.61
2:HA:27:GLU:OE1	2:HA:243:ARG:NH2	2.32	0.61
1:HB:270:PHE:O	1:HB:298:ASN:ND2	2.34	0.61
2:HC:270:THR:HA	2:HC:377:MET:O	1.99	0.61
1:HF:253:LEU:HD21	1:HF:316:LEU:HD21	1.81	0.61
2:IA:224:TYR:HA	2:IA:227:VAL:HG22	1.83	0.61
2:IA:247:ALA:HB3	2:IA:355:ILE:HB	1.82	0.61
1:IB:152:ILE:HG22	1:IB:195:ASN:HB3	1.81	0.61
1:IH:46:ARG:NH2	2:II:76:ASP:OD2	2.34	0.61
1:JA:58:ARG:HH22	1:JA:83:GLN:HG3	1.65	0.61
1:JA:313:ALA:HB3	1:JA:349:ILE:HG12	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JI:322:SER:OG	2:JJ:222:PRO:O	2.19	0.61
1:JK:113:ILE:HG12	1:JK:117:LEU:HD23	1.82	0.61
2:JL:414:GLU:CD	2:JL:415:GLU:H	2.08	0.61
1:KC:224:ASP:OD1	1:KC:225:LEU:N	2.34	0.61
1:KI:282:ARG:HH21	1:KI:288:GLU:HG3	1.66	0.61
1:LA:239:CYS:HB3	1:LA:248:SER:H	1.66	0.61
1:LC:135:LEU:HB3	1:LC:166:THR:HG22	1.83	0.61
1:LG:347:ASN:ND2	2:LH:178:SER:O	2.28	0.61
1:LI:247:ASN:OD1	2:LJ:11:GLN:NE2	2.34	0.61
1:LM:207:LEU:HB3	1:LM:225:LEU:HD22	1.81	0.61
1:MD:152:ILE:HG23	1:MD:164:MET:SD	2.40	0.61
1:MH:236:VAL:HG22	1:MH:368:ILE:HD11	1.81	0.61
2:NI:71:GLU:HB3	2:NI:98:ASP:HB3	1.83	0.61
2:NK:102:ASN:HB3	2:NK:105:ARG:HB3	1.83	0.61
1:OB:83:GLN:O	1:PB:281:TYR:OH	2.19	0.61
1:OB:256:ASN:HD21	2:OC:101:ASN:HD22	1.48	0.61
2:OE:3:GLU:OE2	2:OE:131:GLY:N	2.34	0.61
1:OF:322:SER:OG	1:OF:325:GLU:OE1	2.08	0.61
1:OH:200:MET:HG2	1:OH:266:PHE:HB2	1.82	0.61
2:OM:213:THR:HA	2:OM:217:LEU:HD23	1.83	0.61
2:PM:98:ASP:OD1	2:PM:99:ALA:N	2.33	0.61
1:QA:245:GLN:O	2:QB:11:GLN:NE2	2.33	0.61
2:QL:321:GLY:HA3	2:QL:372:GLN:O	2.00	0.61
2:RB:434:GLU:OE1	56:3d:172:ARG:NH2	2.32	0.61
2:TA:208:ALA:HB2	2:TA:304:LYS:HD2	1.83	0.61
2:TC:24:PHE:O	2:TC:28:HIS:ND1	2.34	0.61
2:TK:251:ASP:OD1	2:TK:252:LEU:N	2.33	0.61
1:V:237:THR:HG22	1:V:250:LEU:HD21	1.82	0.61
2:VC:117:LEU:HD13	2:VC:121:ARG:HH12	1.65	0.61
1:VJ:86:ARG:HH12	1:WJ:282:ARG:HA	1.66	0.61
2:VK:419:SER:O	2:VK:423:GLU:HG3	2.01	0.61
1:VL:163:ILE:HG21	1:VL:250:LEU:HB3	1.81	0.61
1:VL:260:PHE:HB2	1:VL:263:LEU:HD13	1.83	0.61
1:WD:311:LEU:HA	1:WD:342:ILE:HD12	1.82	0.61
11:0U:182:LYS:HG3	11:0U:186:MET:HE3	1.82	0.61
14:0d:340:ASP:OD1	14:0d:341:ALA:N	2.32	0.61
24:1I:275:THR:HG23	24:1I:290:LYS:HZ2	1.66	0.61
26:1Q:526:ARG:HE	26:1Q:530:ILE:HD11	1.64	0.61
28:1b:256:VAL:HG22	28:1c:17:THR:HG23	1.83	0.61
33:2I:176:TYR:HD2	33:2I:180:PRO:HA	1.66	0.61
49:3P:349:SER:O	49:3P:353:ARG:HG2	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:4W:170:LYS:HA	28:4W:170:LYS:HE3	1.83	0.61
64:5C:148:THR:HG21	68:5T:158:GLN:HG2	1.81	0.61
2:AC:104:ALA:HB2	2:AC:413:MET:HE2	1.81	0.61
1:AD:207:LEU:HD22	1:AD:300:MET:HB2	1.83	0.61
1:BB:385:PHE:HE2	1:BB:412:GLU:HB2	1.66	0.61
1:BD:66:MET:SD	1:BD:151:LEU:HD22	2.41	0.61
2:BI:406:HIS:HA	2:BI:409:VAL:HG22	1.83	0.61
2:CB:248:LEU:HB2	2:CB:355:ILE:H	1.66	0.61
2:CL:406:HIS:HA	2:CL:409:VAL:HG12	1.81	0.61
2:DF:174:SER:HB2	2:DF:207:GLU:HG3	1.81	0.61
1:DI:324:LYS:HZ3	2:DJ:210:TYR:HA	1.65	0.61
1:DI:326:VAL:O	1:DI:330:MET:HG2	2.01	0.61
2:FG:213:THR:HB	2:FG:219:ILE:HD11	1.82	0.61
2:GE:172:TYR:CD2	2:GE:203:MET:HG3	2.35	0.61
2:IC:271:SER:HB3	2:IC:301:MET:HG3	1.82	0.61
1:JC:228:LEU:HD23	15:0f:81:PHE:HZ	1.64	0.61
2:JD:170:THR:HG21	2:JD:194:LEU:HD21	1.83	0.61
2:JF:11:GLN:HG3	2:JF:74:VAL:HG11	1.81	0.61
2:JH:11:GLN:O	2:JH:15:GLN:HG2	2.01	0.61
2:JN:77:GLU:HA	2:JN:80:THR:HG22	1.82	0.61
1:KK:99:ASN:ND2	69:KK:500:GDP:O2A	2.34	0.61
2:KL:159:VAL:HG22	31:1s:22:THR:HA	1.80	0.61
1:LA:285:SER:N	1:LA:288:GLU:OE2	2.34	0.61
2:LB:50:ASN:HD22	27:1S:51:GLN:HG3	1.66	0.61
2:LB:105:ARG:HE	2:LB:110:ILE:HD12	1.64	0.61
2:LL:37:PRO:HB3	44:2w:404:LYS:HD2	1.82	0.61
1:LM:292:GLN:HG2	1:LM:298:ASN:ND2	2.16	0.61
1:LM:334:GLN:HE22	1:LM:348:ASN:HB2	1.65	0.61
2:MC:414:GLU:OE2	33:2F:94:GLN:NE2	2.34	0.61
2:ME:309:HIS:ND1	2:ME:386:GLU:OE2	2.31	0.61
2:MG:37:PRO:HG2	2:MG:40:LYS:HB2	1.82	0.61
1:MJ:178:THR:HB	1:MJ:181:GLU:HG3	1.82	0.61
1:N:318:ARG:HE	1:N:358:PRO:HG3	1.66	0.61
1:NF:262:ARG:HH12	1:NF:421:GLU:HG3	1.66	0.61
1:NL:172:SER:OG	1:NL:380:ARG:NH2	2.34	0.61
1:O:152:ILE:HG23	1:O:164:MET:HG2	1.83	0.61
1:OL:139:LEU:HD11	1:OL:168:SER:HB2	1.83	0.61
2:PA:53:PHE:HB3	2:PA:61:HIS:HB3	1.83	0.61
2:PG:202:THR:HG23	2:PG:270:THR:HG21	1.82	0.61
2:QJ:262:TYR:HB2	2:QJ:265:ILE:HG12	1.82	0.61
2:RL:318:MET:O	2:RL:375:VAL:HA	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SC:274:PRO:HG2	2:SC:371:VAL:HG11	1.82	0.61
1:SJ:331:LEU:HD13	2:SK:177:VAL:HG22	1.82	0.61
1:T:236:VAL:HG13	1:T:237:THR:HG23	1.81	0.61
2:TC:214:ARG:HG2	61:3w:189:PHE:O	2.00	0.61
1:TF:60:VAL:HG11	1:TF:86:ARG:HG3	1.82	0.61
2:TI:251:ASP:H	2:TI:254:GLU:HB2	1.65	0.61
1:U:34:GLY:HA3	1:U:58:ARG:HG3	1.82	0.61
2:UA:167:LEU:HD13	2:UA:200:VAL:HB	1.83	0.61
2:VI:214:ARG:NH2	62:4B:304:LYS:O	2.34	0.61
2:VI:237:SER:HA	2:VI:320:ARG:HD2	1.83	0.61
1:WD:232:VAL:HG11	1:WD:300:MET:HE1	1.82	0.61
1:WJ:215:LEU:HB3	1:WJ:217:LEU:HD13	1.82	0.61
4:XO:76:GLY:HA2	33:2G:89:ASP:HA	1.82	0.61
7:0C:353:TYR:HE1	17:0m:58:GLN:HA	1.65	0.61
8:0I:200:THR:O	8:0I:204:GLU:HG2	2.01	0.61
16:0k:46:PHE:CD1	16:0k:96:VAL:HG11	2.34	0.61
20:0u:190:CYS:SG	20:0u:218:ASN:ND2	2.69	0.61
37:2S:35:MET:HE1	37:2S:81:GLN:HG3	1.82	0.61
44:2w:225:ARG:NE	44:2w:292:ASP:OD1	2.31	0.61
60:3r:30:GLN:NE2	60:3r:31:LYS:O	2.34	0.61
65:5G:149:ASN:O	65:5G:153:ARG:N	2.30	0.61
1:AB:8:GLN:HE22	1:AB:21:TRP:HE1	1.49	0.61
1:B:345:ILE:HG23	2:BA:398:MET:HE2	1.81	0.61
2:BA:259:LEU:HD21	2:BA:268:VAL:HG11	1.83	0.61
1:BD:311:LEU:HA	1:BD:342:ILE:HD12	1.83	0.61
1:CG:232:VAL:HG23	1:CG:366:THR:HB	1.82	0.61
2:EA:50:ASN:O	2:EA:64:ARG:NH1	2.31	0.61
1:EB:41:ASP:OD1	26:1Q:669:THR:OG1	2.12	0.61
2:FA:325:PRO:HA	2:FA:328:VAL:HG22	1.82	0.61
2:FC:76:ASP:OD1	2:FC:79:ARG:NH1	2.34	0.61
1:FD:284:LEU:HD22	1:FD:362:LYS:HE3	1.83	0.61
1:FH:311:LEU:HA	1:FH:342:ILE:HD12	1.82	0.61
2:GA:318:MET:HB2	2:GA:376:CYS:SG	2.40	0.61
1:GB:7:CYS:O	1:GB:135:LEU:HA	2.01	0.61
1:GF:165:MET:SD	1:GF:200:MET:HE1	2.41	0.61
2:GG:156:ARG:NH1	2:GG:160:ASP:OD2	2.30	0.61
1:H:178:THR:HG22	1:H:180:VAL:H	1.65	0.61
1:HD:330:MET:HA	1:HD:333:VAL:HG22	1.81	0.61
1:IF:86:ARG:NH1	1:IF:123:GLU:OE2	2.33	0.61
1:IF:235:GLY:HA3	1:IF:366:THR:HG21	1.83	0.61
2:IK:88:ASN:HB2	2:IK:91:GLN:HE21	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IL:324:LYS:CE	2:IM:210:TYR:HA	2.31	0.61
2:JB:286:LEU:O	2:JB:373:ARG:NH1	2.32	0.61
1:JC:163:ILE:HG21	1:JC:250:LEU:HB3	1.81	0.61
1:JG:404:ASP:OD1	1:JG:405:GLU:N	2.34	0.61
2:KB:45:GLU:O	20:0t:253:ARG:NH2	2.34	0.61
2:KH:84:ARG:HB2	35:2N:260:VAL:HG21	1.82	0.61
2:LD:142:GLY:HA2	2:LD:183:GLU:HG3	1.83	0.61
1:LE:282:ARG:HH21	1:LE:284:LEU:HD21	1.64	0.61
1:LG:316:LEU:HD23	1:LG:352:SER:HB2	1.82	0.61
1:LI:119:VAL:HA	1:LI:122:LYS:HE2	1.83	0.61
1:LI:207:LEU:HD13	1:LI:225:LEU:HB3	1.82	0.61
2:MA:325:PRO:HA	2:MA:328:VAL:HB	1.83	0.61
1:MF:321:MET:HE2	1:MF:363:MET:HE2	1.83	0.61
1:MJ:417:ASP:OD1	33:2H:130:ARG:NH2	2.33	0.61
1:MJ:417:ASP:O	1:MJ:421:GLU:HB2	2.01	0.61
2:OC:32:PRO:HA	2:OC:86:LEU:HD12	1.83	0.61
1:OD:11:GLN:HA	1:OD:72:THR:HG21	1.82	0.61
1:PJ:165:MET:HG3	1:PJ:198:GLU:HG3	1.81	0.61
1:PJ:236:VAL:HG13	1:PJ:237:THR:HG23	1.83	0.61
2:R:104:ALA:HB2	2:R:413:MET:HE3	1.81	0.61
1:RE:347:ASN:ND2	2:RF:180:ALA:O	2.34	0.61
1:RG:155:LEU:HA	1:RG:158:GLU:HG2	1.83	0.61
1:RG:215:LEU:HB3	1:RG:217:LEU:HD13	1.83	0.61
1:RG:245:GLN:O	2:RH:11:GLN:NE2	2.34	0.61
1:SB:158:GLU:HG3	61:3w:182:ARG:HH21	1.65	0.61
2:SC:75:VAL:HG21	2:SC:94:SER:HB2	1.81	0.61
1:TL:3:GLU:HA	1:TL:49:VAL:HG23	1.81	0.61
1:TL:330:MET:O	1:TL:334:GLN:HG2	2.01	0.61
1:U:200:MET:SD	1:U:268:MET:HE3	2.40	0.61
2:UA:174:SER:OG	2:UA:177:VAL:O	2.18	0.61
1:UF:102:ALA:HB2	1:UF:403:MET:HE3	1.80	0.61
2:VC:69:ASP:OD2	2:VC:70:LEU:N	2.34	0.61
1:VJ:346:PRO:O	2:VK:394:LYS:NZ	2.34	0.61
1:VL:45:GLU:OE2	1:VL:46:ARG:NH1	2.34	0.61
1:W:345:ILE:HG23	2:WA:398:MET:HE3	1.83	0.61
1:WJ:267:MET:HE3	1:WJ:299:MET:HE2	1.83	0.61
6:0:98:PRO:HA	6:0:101:THR:HB	1.82	0.61
13:0Y:178:TYR:HB2	32:2B:105:LYS:HD3	1.83	0.61
16:0k:22:ARG:HB2	16:0k:24:ILE:HD11	1.82	0.61
29:1j:20:ILE:HB	29:1j:27:TRP:HB2	1.83	0.61
29:1m:215:ASP:O	29:1m:220:TRP:NE1	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:221:THR:HG22	1:AL:222:PHE:H	1.66	0.61
2:BA:79:ARG:NH2	2:BA:94:SER:OG	2.33	0.61
1:BD:322:SER:OG	2:BE:222:PRO:O	2.18	0.61
2:BM:319:TYR:HB3	2:BM:323:VAL:HG21	1.82	0.61
2:DD:406:HIS:HA	2:DD:409:VAL:HG22	1.82	0.61
1:DE:42:LEU:HD12	1:DE:356:ILE:HD11	1.83	0.61
1:DE:66:MET:HE3	1:DE:147:MET:HE2	1.81	0.61
2:DL:386:GLU:OE2	2:DL:390:ARG:NH1	2.34	0.61
1:DM:207:LEU:HD13	1:DM:225:LEU:HB3	1.82	0.61
1:EF:10:GLY:O	1:EF:14:ASN:ND2	2.34	0.61
1:EH:242:PHE:HB3	1:EH:356:ILE:HD13	1.83	0.61
2:FC:70:LEU:HD22	2:FC:110:ILE:HG22	1.82	0.61
1:FH:371:ASN:ND2	1:FH:373:CYS:SG	2.74	0.61
2:FK:68:LEU:HD23	2:FK:153:LEU:HD11	1.83	0.61
2:GA:319:TYR:HB3	2:GA:323:VAL:HG11	1.81	0.61
1:GD:235:GLY:HA3	1:GD:366:THR:HG21	1.82	0.61
2:GK:265:ILE:HG22	2:GK:380:ASN:HD21	1.64	0.61
1:H:202:ILE:HD11	1:H:229:VAL:HG21	1.82	0.61
1:H:280:GLN:NE2	17:0m:122:ASP:OD2	2.32	0.61
2:HA:338:LYS:HE3	2:HA:338:LYS:HA	1.81	0.61
1:HJ:248:SER:HA	1:HJ:252:LYS:HG3	1.82	0.61
1:I:3:GLU:O	1:I:131:GLN:N	2.34	0.61
1:IB:267:MET:HE2	1:IB:299:MET:HG2	1.83	0.61
1:ID:91:ILE:HG21	1:ID:116:VAL:HG22	1.81	0.61
1:ID:163:ILE:HD11	1:ID:251:ARG:HG3	1.81	0.61
2:J:342:GLN:NE2	2:J:343:PHE:O	2.32	0.61
2:JD:67:PHE:HB2	2:JD:92:LEU:HD12	1.82	0.61
2:JH:64:ARG:NH1	2:JH:129:CYS:SG	2.73	0.61
2:JH:285:GLN:HE22	2:JH:287:SER:HB2	1.65	0.61
2:KB:413:MET:HE3	2:KB:417:GLU:HG2	1.82	0.61
2:KD:237:SER:HA	2:KD:320:ARG:HD2	1.82	0.61
1:KI:268:MET:HE1	1:KI:368:ILE:HG23	1.82	0.61
2:KL:160:ASP:OD1	35:2O:138:GLU:N	2.32	0.61
1:LC:313:ALA:HB3	1:LC:349:ILE:HG12	1.81	0.61
2:LD:212:LEU:HD23	2:LD:275:VAL:HG11	1.83	0.61
1:LE:274:THR:OG1	1:LE:282:ARG:NH1	2.29	0.61
1:LE:297:LYS:O	15:0f:269:ARG:NH2	2.34	0.61
1:LI:200:MET:HG2	1:LI:266:PHE:HB2	1.82	0.61
1:LO:77:ARG:NH1	1:LO:82:GLY:O	2.34	0.61
2:ME:174:SER:HB2	2:ME:207:GLU:HG2	1.82	0.61
2:NC:213:THR:HA	2:NC:217:LEU:HD23	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NJ:48:ASN:O	1:NJ:62:ARG:NH2	2.32	0.61
1:NL:345:ILE:O	1:NL:348:ASN:ND2	2.34	0.61
2:NM:67:PHE:HB2	2:NM:92:LEU:HD12	1.83	0.61
2:OA:223:SER:OG	2:OA:224:TYR:N	2.34	0.61
2:OC:241:SER:O	2:OC:249:ASN:ND2	2.30	0.61
2:OE:334:THR:O	2:OE:338:LYS:HG2	2.01	0.61
2:OG:185:TYR:OH	2:OG:403:ALA:O	2.16	0.61
2:OI:275:VAL:HG23	2:OI:368:LEU:HD11	1.82	0.61
2:OM:322:ASP:HB2	2:OM:373:ARG:HH21	1.64	0.61
2:PC:195:LEU:HD23	2:PC:264:ARG:HE	1.65	0.61
1:QA:236:VAL:HG13	1:QA:237:THR:HG23	1.82	0.61
1:QC:336:LYS:O	59:4a:193:ARG:NH2	2.33	0.61
1:QE:396:HIS:HA	1:QE:399:THR:HG22	1.82	0.61
1:QK:372:THR:HG21	1:QK:426:GLN:HB2	1.83	0.61
1:RA:19:LYS:HZ3	1:RA:227:HIS:HB2	1.66	0.61
1:RG:200:MET:HG2	1:RG:266:PHE:HB2	1.82	0.61
1:RG:235:GLY:HA3	1:RG:366:THR:HG21	1.81	0.61
1:S:161:ASP:O	1:S:251:ARG:NH2	2.33	0.61
1:SD:152:ILE:HG23	1:SD:164:MET:HE2	1.83	0.61
2:SG:203:MET:HA	2:SG:203:MET:HE3	1.82	0.61
2:SG:237:SER:HA	2:SG:320:ARG:HD2	1.82	0.61
1:SJ:324:LYS:HE3	2:SK:222:PRO:HD2	1.82	0.61
1:T:230:ALA:HA	1:T:233:MET:HE2	1.83	0.61
2:TA:258:ASN:HB2	1:TB:179:VAL:HG22	1.83	0.61
2:TC:240:ALA:HA	2:TC:243:ARG:HD3	1.83	0.61
2:TG:195:LEU:HA	2:TG:266:HIS:HE1	1.65	0.61
1:TH:267:MET:HE1	1:TH:303:ALA:HB3	1.83	0.61
1:TL:213:ARG:NH2	1:TL:297:LYS:HB2	2.13	0.61
2:UE:1:MET:N	2:UE:3:GLU:OE2	2.30	0.61
1:UH:252:LYS:HD2	2:UI:100:ALA:HA	1.83	0.61
1:UJ:377:MET:HA	1:UJ:380:ARG:HG2	1.83	0.61
1:VB:46:ARG:NH2	2:VC:76:ASP:OD2	2.34	0.61
1:VH:45:GLU:HG2	1:VH:46:ARG:HG2	1.83	0.61
2:WE:98:ASP:OD1	2:WE:99:ALA:N	2.34	0.61
2:WE:245:ASP:OD1	9:0M:197:ASN:ND2	2.34	0.61
5:XP:24:PRO:HD3	5:XP:126:ARG:HH22	1.66	0.61
9:0N:212:LYS:HG3	9:0N:229:GLN:HE21	1.65	0.61
27:1T:683:ASP:HB3	27:1T:718:LYS:HD2	1.82	0.61
28:1b:5:HIS:CE1	41:2h:355:ASN:OD1	2.54	0.61
46:3B:278:SER:HA	46:3B:415:PRO:HG2	1.82	0.61
47:3D:326:LEU:HD13	47:3D:381:LEU:HD11	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:3Q:31:LEU:HD23	52:3U:208:ASP:OD2	2.00	0.61
66:5L:119:VAL:HG21	66:5L:193:ASP:HB2	1.82	0.61
2:AG:238:LEU:HD11	2:AG:378:ILE:HG13	1.82	0.61
1:AN:51:PHE:HB3	1:AN:59:TYR:HB3	1.83	0.61
2:BC:320:ARG:HE	2:BC:360:PRO:HG3	1.66	0.61
2:BG:320:ARG:HH21	2:BG:360:PRO:HA	1.66	0.61
2:BK:103:TYR:HD1	2:BK:413:MET:HE1	1.65	0.61
2:BK:237:SER:HA	2:BK:320:ARG:HD2	1.83	0.61
2:CB:67:PHE:HB2	2:CB:92:LEU:HD12	1.82	0.61
2:CH:209:ILE:HG21	2:CH:227:VAL:HG13	1.83	0.61
2:CH:254:GLU:HA	1:CI:98:GLY:HA2	1.83	0.61
2:DD:234:VAL:HG21	2:DD:302:LEU:HD22	1.82	0.61
2:DJ:67:PHE:HB2	2:DJ:92:LEU:HD12	1.82	0.61
1:DK:311:LEU:HA	1:DK:342:ILE:HD12	1.83	0.61
1:EB:311:LEU:HA	1:EB:342:ILE:HD12	1.83	0.61
2:EG:402:ARG:HD3	2:EG:405:VAL:HG21	1.82	0.61
2:EI:215:ARG:NH2	2:EI:299:ALA:O	2.34	0.61
1:EL:257:LEU:HD11	1:EL:314:SER:HB3	1.83	0.61
2:FA:50:ASN:O	2:FA:64:ARG:NH1	2.34	0.61
1:FB:322:SER:OG	2:FC:222:PRO:O	2.18	0.61
2:FC:90:GLU:HG3	2:FC:121:ARG:CZ	2.30	0.61
1:FD:247:ASN:ND2	2:FE:73:THR:OG1	2.34	0.61
1:FD:347:ASN:ND2	2:FE:178:SER:O	2.33	0.61
2:FE:88:ASN:OD1	2:FE:89:PRO:HD2	2.01	0.61
2:GC:169:TYR:HB3	2:GC:204:LEU:HD11	1.82	0.61
2:GE:116:ASP:OD1	2:GE:117:LEU:N	2.33	0.61
2:GE:388:PHE:HA	2:GE:391:ILE:HG22	1.82	0.61
2:HM:170:THR:HG21	2:HM:194:LEU:HD21	1.81	0.61
2:IC:64:ARG:NH1	2:IC:129:CYS:SG	2.74	0.61
2:IK:251:ASP:OD1	2:IK:252:LEU:N	2.32	0.61
1:JE:173:PRO:HG3	1:JE:384:GLN:NE2	2.16	0.61
1:JK:256:ASN:HB2	2:JL:181:VAL:HG22	1.81	0.61
1:JM:207:LEU:HD21	1:JM:300:MET:HE3	1.83	0.61
1:KE:27:GLU:OE2	1:KE:318:ARG:NH2	2.34	0.61
2:KF:70:LEU:HD12	2:KF:99:ALA:HB2	1.83	0.61
2:KJ:217:LEU:HD21	2:KJ:367:ASP:HB2	1.83	0.61
1:LA:207:LEU:HB3	1:LA:225:LEU:HD22	1.83	0.61
2:LB:240:ALA:HA	2:LB:243:ARG:HB2	1.83	0.61
2:LH:270:THR:HG23	2:LH:302:LEU:HB2	1.82	0.61
1:MB:148:GLY:O	1:MB:152:ILE:HG13	2.01	0.61
2:MC:357:TYR:HB3	45:2y:232:LYS:HD2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MI:400:SER:OG	32:2C:105:LYS:O	2.16	0.61
2:MK:237:SER:HA	2:MK:320:ARG:HD2	1.83	0.61
1:MN:49:VAL:HG11	1:MN:241:ARG:HG2	1.83	0.61
1:ND:309:ARG:HD3	1:ND:342:ILE:HA	1.83	0.61
1:NF:148:GLY:O	1:NF:152:ILE:HG12	2.00	0.61
1:NH:207:LEU:HD22	1:NH:300:MET:HB2	1.82	0.61
2:NI:228:ASN:HA	2:NI:231:ILE:HG22	1.81	0.61
2:OG:174:SER:OG	2:OG:207:GLU:OE1	2.14	0.61
1:OJ:238:CYS:CB	1:OJ:318:ARG:HE	2.14	0.61
1:OL:114:ASP:OD2	1:OL:115:SER:N	2.34	0.61
1:P:212:PHE:HB3	1:P:213:ARG:CZ	2.30	0.61
1:PB:330:MET:HA	1:PB:333:VAL:HG22	1.81	0.61
2:PE:206:ASN:OD1	71:PE:501:GTP:N2	2.34	0.61
1:PH:42:LEU:HD12	28:1d:217:PHE:HB3	1.82	0.61
2:PM:116:ASP:OD1	2:PM:117:LEU:N	2.33	0.61
2:QJ:72:PRO:O	2:QJ:76:ASP:HB2	2.01	0.61
2:QJ:406:HIS:HA	2:QJ:409:VAL:HG22	1.82	0.61
1:QK:243:PRO:HB3	2:QL:77:GLU:OE2	2.01	0.61
2:RL:167:LEU:HD13	2:RL:252:LEU:HD12	1.82	0.61
1:SD:347:ASN:ND2	2:SE:178:SER:O	2.33	0.61
2:SI:79:ARG:HH22	2:SI:94:SER:HB2	1.66	0.61
2:SK:318:MET:HB2	2:SK:376:CYS:HB3	1.82	0.61
2:TG:90:GLU:HB2	2:TG:121:ARG:HH21	1.66	0.61
2:UE:123:ARG:HG3	62:4B:207:ALA:HB2	1.82	0.61
2:UE:239:THR:HG23	2:UE:243:ARG:HE	1.64	0.61
2:UG:169:TYR:HB3	2:UG:204:LEU:HD11	1.82	0.61
1:V:423:GLN:NE2	1:V:427:ASP:OD2	2.34	0.61
1:VH:11:GLN:HA	1:VH:72:THR:HG21	1.83	0.61
2:VK:1:MET:HG3	2:VK:2:ARG:HG2	1.83	0.61
2:WE:88:ASN:OD1	2:WE:89:PRO:HD2	2.01	0.61
1:WL:22:GLU:HG2	1:WL:81:TYR:CD2	2.36	0.61
3:XB:57:CYS:HB3	3:XB:158:ALA:HB2	1.83	0.61
3:XD:2:PHE:O	3:XD:7:GLN:NE2	2.33	0.61
4:XR:181:CYS:SG	4:XR:221:ILE:HD11	2.41	0.61
9:0N:431:ASP:OD2	9:0N:436:ARG:HB3	2.01	0.61
9:0O:87:GLN:NE2	9:0O:105:LEU:O	2.34	0.61
14:0c:302:CYS:SG	14:0c:306:ARG:NH2	2.70	0.61
17:0n:3:SER:HB2	17:0n:7:ARG:NH1	2.16	0.61
24:1I:360:ASP:OD2	24:1I:361:TYR:N	2.34	0.61
39:2X:162:ASP:OD1	39:2X:165:ARG:NH2	2.34	0.61
41:2o:180:GLN:HG3	41:2o:184:ARG:HH22	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:4B:429:HIS:ND1	62:4B:431:ASN:OD1	2.32	0.61
1:AB:238:CYS:SG	1:AB:318:ARG:HD3	2.41	0.60
1:AL:217:LEU:HD12	1:AL:220:PRO:HD3	1.83	0.60
1:B:238:CYS:HB2	1:B:318:ARG:HD3	1.82	0.60
1:BH:290:THR:HA	1:BH:293:MET:HE2	1.82	0.60
1:CA:403:MET:HE2	1:CA:407:GLU:OE1	2.00	0.60
1:CC:215:LEU:HB3	1:CC:217:LEU:HD13	1.83	0.60
1:CE:293:MET:HG3	1:CE:367:PHE:HB2	1.83	0.60
2:D:186:ASN:OD1	2:D:408:TYR:OH	2.19	0.60
1:DG:32:PRO:HG3	1:DG:81:TYR:CD1	2.36	0.60
1:FB:7:CYS:O	1:FB:135:LEU:HA	2.00	0.60
1:GB:355:ASP:OD2	38:2U:320:THR:OG1	2.18	0.60
2:GG:180:ALA:HB3	2:GG:183:GLU:HB2	1.83	0.60
1:GJ:148:GLY:HA2	1:GJ:151:LEU:HD12	1.83	0.60
1:HB:245:GLN:NE2	2:HC:224:TYR:HB2	2.16	0.60
2:HI:418:PHE:CE2	2:HI:418:PHE:CG	2.89	0.60
1:HL:4:ILE:HB	1:HL:50:TYR:HE2	1.66	0.60
1:HL:385:PHE:HE2	1:HL:412:GLU:HB2	1.64	0.60
2:HM:430:LYS:HA	2:HM:430:LYS:HE3	1.83	0.60
1:ID:152:ILE:HD11	1:ID:164:MET:HG2	1.81	0.60
1:ID:172:SER:OG	1:ID:380:ARG:NH1	2.34	0.60
1:IH:163:ILE:HG21	1:IH:250:LEU:HB3	1.83	0.60
1:IH:202:ILE:HD11	1:IH:268:MET:SD	2.41	0.60
1:IH:344:TRP:HA	2:II:397:LEU:HD11	1.81	0.60
1:IL:341:PHE:HB3	1:IL:348:ASN:OD1	2.01	0.60
1:JC:289:LEU:O	1:JC:293:MET:HG3	2.00	0.60
2:K:352:LYS:HE3	1:KA:178:THR:HG22	1.83	0.60
1:KG:206:ALA:O	1:KG:210:ILE:HG12	2.00	0.60
2:KH:123:ARG:NH2	35:2O:61:GLY:O	2.34	0.60
1:LE:180:VAL:O	1:LE:184:ASN:ND2	2.33	0.60
2:LJ:248:LEU:HB2	2:LJ:355:ILE:H	1.66	0.60
2:MA:18:ASN:HD21	2:MA:78:VAL:HG22	1.64	0.60
1:MD:296:ALA:O	32:2B:242:ARG:NH1	2.31	0.60
1:MF:18:SER:O	1:MF:22:GLU:HG3	2.00	0.60
1:MF:66:MET:HE2	1:MF:151:LEU:HD22	1.83	0.60
2:NA:5:ILE:HD13	2:NA:64:ARG:HB2	1.80	0.60
1:NH:286:VAL:HG11	1:NH:325:GLU:HB3	1.82	0.60
2:NI:240:ALA:HA	2:NI:243:ARG:HD3	1.81	0.60
2:NK:209:ILE:HG21	2:NK:227:VAL:HG13	1.83	0.60
2:OA:76:ASP:OD1	2:OA:79:ARG:NH2	2.34	0.60
2:OC:296:PHE:CE2	2:OC:377:MET:HE1	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OD:68:LEU:HD12	1:OD:97:ALA:HB2	1.83	0.60
2:PE:319:TYR:HB3	2:PE:323:VAL:HG21	1.83	0.60
2:PG:241:SER:HB2	2:PG:318:MET:HE1	1.82	0.60
1:PL:272:PRO:HD3	1:PL:364:SER:HA	1.82	0.60
2:PM:319:TYR:HB3	2:PM:323:VAL:HG11	1.83	0.60
1:QG:172:SER:HB2	1:QG:175:VAL:HB	1.83	0.60
1:QI:337:ASN:HD21	59:4b:30:VAL:H	1.49	0.60
2:QJ:79:ARG:HB3	22:0z:253:GLN:HB2	1.83	0.60
2:SG:214:ARG:HH21	59:3p:154:LEU:HD22	1.66	0.60
2:SI:209:ILE:HG21	2:SI:227:VAL:HG13	1.83	0.60
2:SI:318:MET:O	2:SI:375:VAL:HA	2.01	0.60
2:SK:337:THR:HG23	59:3p:265:LYS:HZ2	1.65	0.60
1:TB:5:VAL:HG23	1:TB:62:ARG:HB3	1.82	0.60
1:TD:262:ARG:HH22	1:TD:417:ASP:HB3	1.66	0.60
2:TE:89:PRO:HB2	2:UE:280:LYS:NZ	2.16	0.60
1:TL:330:MET:HB3	1:TL:349:ILE:HG21	1.81	0.60
1:UH:68:LEU:HD12	1:UH:97:ALA:HB2	1.83	0.60
1:UJ:159:TYR:HB3	1:UJ:162:ARG:HG3	1.82	0.60
1:VH:91:ILE:HD11	1:VH:119:VAL:HG21	1.82	0.60
1:VH:236:VAL:HG13	1:VH:237:THR:HG23	1.83	0.60
2:VK:128:ASN:C	2:VK:128:ASN:HD22	2.06	0.60
1:WB:126:SER:HB2	4:XM:263:MET:HE2	1.82	0.60
1:WJ:91:ILE:HD11	1:WJ:119:VAL:HG21	1.83	0.60
2:WM:216:SER:OG	2:WM:275:VAL:O	2.17	0.60
5:XN:254:PRO:HA	5:XN:306:MET:HE2	1.82	0.60
10:0R:82:GLU:O	10:0R:86:HIS:ND1	2.34	0.60
14:0c:316:MET:SD	14:0c:320:LYS:NZ	2.68	0.60
20:0t:192:GLU:OE2	20:0t:214:ARG:NE	2.34	0.60
24:1J:676:GLU:O	24:1J:680:ILE:HG12	2.01	0.60
25:1O:262:SER:O	25:1O:266:ILE:HG12	2.01	0.60
27:1S:845:THR:O	27:1S:849:MET:HG2	2.01	0.60
29:1j:10:GLU:OE2	49:3P:402:GLN:NE2	2.33	0.60
59:3p:104:TYR:HA	59:3p:109:GLU:HG3	1.83	0.60
67:5O:82:PRO:HB3	67:5O:98:ASN:HA	1.83	0.60
2:AC:119:LEU:HD21	2:AC:156:ARG:HB3	1.83	0.60
1:AD:62:ARG:NH1	1:AD:127:CYS:SG	2.74	0.60
1:AN:32:PRO:HA	1:AN:84:LEU:HD11	1.83	0.60
1:AN:204:ASN:OD1	69:AN:500:GDP:O2'	2.18	0.60
1:BL:165:MET:HE1	1:BL:236:VAL:HG11	1.83	0.60
1:CE:121:ARG:NH1	1:CE:158:GLU:OE2	2.34	0.60
2:CF:7:ILE:HB	2:CF:137:VAL:HG12	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CK:56:GLY:HA2	24:1K:683:TYR:HE1	1.65	0.60
2:D:394:LYS:HE3	2:D:398:MET:HE2	1.83	0.60
2:DB:103:TYR:HD2	2:DB:147:SER:HB3	1.66	0.60
1:DC:27:GLU:OE1	1:DC:241:ARG:NH2	2.33	0.60
1:DE:314:SER:HB3	1:DE:368:ILE:HB	1.82	0.60
2:DH:102:ASN:HB3	2:DH:105:ARG:HB2	1.83	0.60
2:EA:180:ALA:HB3	2:EA:183:GLU:HB2	1.82	0.60
2:EE:269:LEU:N	2:EE:379:ALA:O	2.30	0.60
2:EI:191:THR:HG21	2:EI:425:LEU:HD21	1.84	0.60
1:EJ:66:MET:HE3	1:EJ:151:LEU:HD22	1.83	0.60
1:FF:272:PRO:HD3	1:FF:364:SER:HA	1.83	0.60
1:GB:130:LEU:O	1:GB:162:ARG:NH1	2.34	0.60
1:GJ:235:GLY:HA3	1:GJ:366:THR:HG21	1.83	0.60
2:HA:248:LEU:HD23	2:HA:355:ILE:HD12	1.81	0.60
1:HB:289:LEU:HD11	1:HB:363:MET:HG2	1.82	0.60
1:HD:207:LEU:HD22	1:HD:300:MET:HB2	1.83	0.60
1:IF:152:ILE:HD13	1:IF:164:MET:HE2	1.84	0.60
1:IF:248:SER:HB2	1:IF:252:LYS:HG2	1.83	0.60
2:IG:311:LYS:HE2	2:IG:344:VAL:HA	1.83	0.60
1:IL:271:ALA:HB3	1:IL:365:VAL:HB	1.84	0.60
2:K:67:PHE:HB2	2:K:92:LEU:HD12	1.83	0.60
1:KA:10:GLY:O	1:KA:14:ASN:ND2	2.33	0.60
1:LG:336:LYS:HE3	35:2O:43:PRO:HB2	1.83	0.60
1:LK:121:ARG:HB3	14:0d:85:VAL:HG11	1.83	0.60
1:M:67:ASP:HA	1:M:143:THR:HG21	1.83	0.60
1:ND:324:LYS:HG2	2:NE:210:TYR:CD1	2.36	0.60
1:NF:130:LEU:O	1:NF:162:ARG:NH2	2.33	0.60
1:NL:163:ILE:HG21	1:NL:250:LEU:HB3	1.81	0.60
1:OL:345:ILE:O	1:OL:348:ASN:ND2	2.34	0.60
2:PE:282:TYR:CE1	41:2l:472:MET:HE3	2.37	0.60
2:PE:286:LEU:O	2:PE:373:ARG:NH1	2.34	0.60
2:PG:296:PHE:CE2	2:PG:335:ILE:HG13	2.36	0.60
1:PH:183:TYR:HE2	1:PH:394:PHE:HB2	1.66	0.60
2:PM:195:LEU:HD11	2:PM:428:LEU:HD22	1.82	0.60
1:QI:217:LEU:HD11	1:QI:220:PRO:HB3	1.83	0.60
1:QK:48:ASN:O	1:QK:62:ARG:NH2	2.34	0.60
1:QK:133:PHE:HD2	1:QK:164:MET:HE1	1.65	0.60
2:R:274:PRO:HD2	2:R:374:ALA:HA	1.83	0.60
2:RB:64:ARG:NH1	2:RB:129:CYS:SG	2.74	0.60
1:RC:46:ARG:HH12	2:RD:72:PRO:HG2	1.66	0.60
1:SD:118:ASP:O	1:SD:122:LYS:HG2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:TA:320:ARG:NH2	2:TA:358:GLN:OE1	2.34	0.60
1:TF:3:GLU:HG3	1:TF:49:VAL:HA	1.82	0.60
1:TJ:208:TYR:CE1	1:TJ:225:LEU:HD11	2.35	0.60
2:TK:329:ASN:HD22	1:TL:208:TYR:HE2	1.48	0.60
1:WD:379:ARG:O	1:WD:383:GLU:HG3	2.01	0.60
1:WF:245:GLN:O	2:WG:11:GLN:NE2	2.33	0.60
8:0J:431:GLN:OE1	34:2L:128:THR:HG21	2.01	0.60
9:0N:480:GLU:HG3	21:0w:85:ARG:HH12	1.67	0.60
16:0l:50:LEU:HD12	16:0l:62:MET:HE1	1.83	0.60
17:0n:232:GLU:OE1	17:0n:235:ARG:NH2	2.34	0.60
21:0x:433:THR:HG23	21:0x:436:GLU:H	1.66	0.60
24:1I:529:ASN:OD1	24:1I:530:LYS:NZ	2.29	0.60
24:1K:561:LEU:HB2	24:1K:597:VAL:HG23	1.83	0.60
27:1T:745:ARG:NH1	27:1T:794:ILE:O	2.35	0.60
44:2v:230:ARG:NH2	44:2v:265:ASP:OD1	2.34	0.60
44:2w:35:ASP:HA	44:2w:38:ARG:HD3	1.83	0.60
49:3Q:516:VAL:HG11	49:3Q:554:VAL:HG22	1.83	0.60
51:X1:203:ASP:HB2	51:X1:206:THR:HG23	1.82	0.60
2:AK:326:LYS:HG2	1:AL:212:PHE:HZ	1.66	0.60
2:BA:329:ASN:OD1	2:BA:330:ALA:N	2.34	0.60
1:EB:49:VAL:HG11	1:EB:241:ARG:HG2	1.84	0.60
2:EE:248:LEU:HB2	2:EE:355:ILE:H	1.66	0.60
2:EE:406:HIS:HA	2:EE:409:VAL:HG12	1.83	0.60
2:EI:91:GLN:H	2:EI:121:ARG:NH1	2.00	0.60
1:EJ:246:LEU:HA	2:EK:11:GLN:HE22	1.66	0.60
1:EJ:311:LEU:HD23	1:EJ:342:ILE:HD12	1.81	0.60
1:F:150:LEU:HG	1:F:154:LYS:HZ1	1.66	0.60
2:FC:270:THR:HG23	2:FC:302:LEU:HB2	1.81	0.60
1:FD:11:GLN:HA	1:FD:72:THR:HG21	1.84	0.60
2:FE:120:ASP:OD1	2:FE:123:ARG:NH2	2.34	0.60
1:FF:58:ARG:NH2	1:FF:83:GLN:O	2.34	0.60
2:FG:352:LYS:HZ3	1:FH:178:THR:HG22	1.66	0.60
1:G:328:GLU:O	1:G:332:ASN:ND2	2.35	0.60
2:GA:71:GLU:HB3	2:GA:98:ASP:HB3	1.82	0.60
1:GF:178:THR:HB	1:GF:181:GLU:OE2	2.02	0.60
1:GH:248:SER:HB2	1:GH:252:LYS:HG2	1.83	0.60
2:GI:279:GLU:OE2	59:4O:300:TYR:N	2.34	0.60
2:HC:377:MET:HE3	2:HC:379:ALA:HB2	1.82	0.60
2:HG:141:VAL:HG13	2:HG:170:THR:HG21	1.82	0.60
2:IG:286:LEU:O	2:IG:373:ARG:NH1	2.33	0.60
1:IH:330:MET:HB3	1:IH:349:ILE:HG21	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IJ:344:TRP:CG	2:IK:401:LYS:HZ1	2.19	0.60
1:JA:347:ASN:ND2	2:JB:178:SER:O	2.34	0.60
2:JF:326:LYS:HZ1	1:JG:220:PRO:HG2	1.65	0.60
1:JG:249:ASP:H	1:JG:252:LYS:HB3	1.66	0.60
1:JK:36:TYR:HB2	1:JK:59:TYR:HE2	1.66	0.60
2:KF:345:ASP:OD1	2:KF:346:TRP:N	2.34	0.60
2:LD:439:SER:HB3	1:LE:391:ARG:HD3	1.83	0.60
1:LM:322:SER:OG	2:LN:222:PRO:O	2.19	0.60
1:MF:9:ALA:HB2	1:MF:66:MET:HE3	1.83	0.60
1:MH:210:ILE:O	1:MH:214:THR:OG1	2.19	0.60
2:MM:258:ASN:HD21	1:MN:99:ASN:HD22	1.47	0.60
2:NC:326:LYS:HZ1	1:ND:220:PRO:HG2	1.66	0.60
1:NL:87:PRO:HD3	1:OL:281:TYR:CD2	2.36	0.60
1:O:100:ASN:HB3	1:O:103:LYS:HG2	1.84	0.60
2:OA:155:GLU:HA	2:OA:197:HIS:CD2	2.36	0.60
2:OA:387:VAL:HG23	2:OA:390:ARG:HH12	1.65	0.60
1:OB:268:MET:HE1	1:OB:368:ILE:HG23	1.83	0.60
1:OF:31:ASP:OD2	1:OF:37:GLN:NE2	2.35	0.60
2:OK:297:GLU:HG2	2:OK:299:ALA:H	1.66	0.60
1:OL:10:GLY:O	1:OL:14:ASN:ND2	2.33	0.60
1:PJ:272:PRO:HD3	1:PJ:364:SER:HA	1.83	0.60
2:Q:115:VAL:HG21	2:Q:152:LEU:HG	1.82	0.60
2:QF:67:PHE:HB2	2:QF:92:LEU:HD12	1.83	0.60
2:QL:237:SER:HA	2:QL:320:ARG:HD2	1.83	0.60
1:SF:236:VAL:HG13	1:SF:237:THR:HG23	1.82	0.60
1:SH:239:CYS:SG	1:SH:248:SER:N	2.74	0.60
2:SI:217:LEU:HD21	2:SI:275:VAL:HG22	1.83	0.60
2:SK:361:THR:HA	2:SK:370:LYS:HZ3	1.67	0.60
1:WF:253:LEU:HD21	1:WF:316:LEU:HD21	1.83	0.60
4:XO:116:ARG:HH12	4:XO:210:ARG:CZ	2.14	0.60
5:XP:42:ARG:HH12	9:0M:389:ARG:HH12	1.47	0.60
8:0F:50:GLY:HA3	8:0F:55:HIS:CB	2.30	0.60
9:0L:181:VAL:HG12	9:0L:188:MET:HG2	1.82	0.60
9:0M:523:ILE:HG13	9:0M:556:LEU:HD21	1.82	0.60
14:0c:293:MET:HA	14:0c:293:MET:HE2	1.83	0.60
27:1S:153:ILE:HG21	27:1S:205:LEU:HD13	1.82	0.60
2:AG:251:ASP:H	2:AG:254:GLU:HB2	1.66	0.60
2:DB:70:LEU:HD13	2:DB:145:THR:HG23	1.84	0.60
1:DI:272:PRO:HD3	1:DI:364:SER:HA	1.82	0.60
1:ED:303:ALA:HB2	1:ED:377:MET:HG3	1.82	0.60
1:EF:27:GLU:OE2	1:EF:241:ARG:NH1	2.33	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EJ:73:MET:HG3	1:EJ:92:PHE:HB3	1.82	0.60
2:FE:66:LEU:HD13	2:FE:122:ILE:HG13	1.81	0.60
2:FG:188:VAL:O	2:FG:191:THR:OG1	2.20	0.60
2:FK:178:SER:OG	2:FK:183:GLU:OE1	2.18	0.60
1:G:68:LEU:HB3	1:G:96:GLY:HA2	1.82	0.60
1:HL:318:ARG:HE	1:HL:358:PRO:HG3	1.66	0.60
2:IG:254:GLU:O	2:IG:258:ASN:ND2	2.29	0.60
1:JG:289:LEU:O	1:JG:293:MET:HG3	2.02	0.60
1:JG:313:ALA:HB3	1:JG:349:ILE:HG13	1.83	0.60
2:JH:103:TYR:HD2	2:JH:413:MET:HE1	1.65	0.60
1:JM:406:MET:O	1:JM:410:GLU:HG2	2.01	0.60
2:KD:217:LEU:HD21	2:KD:367:ASP:HB2	1.82	0.60
2:KH:58:ALA:HB3	23:1E:183:ARG:NH1	2.16	0.60
1:KI:324:LYS:HZ1	2:KJ:222:PRO:HG2	1.67	0.60
2:KN:180:ALA:HB3	2:KN:183:GLU:HB2	1.83	0.60
1:LE:326:VAL:HG11	1:LE:353:ILE:HD11	1.83	0.60
1:MF:295:ASP:OD2	1:MF:297:LYS:NZ	2.32	0.60
2:MM:259:LEU:HD11	2:MM:316:CYS:HB2	1.83	0.60
2:NI:326:LYS:HZ3	1:NJ:220:PRO:N	1.98	0.60
1:NL:64:VAL:HA	1:NL:89:ASN:HB3	1.84	0.60
1:O:61:PRO:HD3	1:O:84:LEU:HG	1.82	0.60
2:OE:219:ILE:HG13	2:OE:222:PRO:HG3	1.84	0.60
1:OJ:31:ASP:OD1	1:OJ:37:GLN:NE2	2.33	0.60
2:OK:258:ASN:HB2	1:OL:179:VAL:HG22	1.82	0.60
2:PG:70:LEU:HD12	2:PG:145:THR:HG22	1.82	0.60
1:PJ:87:PRO:HD3	1:QI:281:TYR:CD2	2.37	0.60
1:QI:63:ALA:O	1:QI:89:ASN:ND2	2.28	0.60
2:R:103:TYR:HB2	2:R:186:ASN:HD22	1.66	0.60
1:RC:253:LEU:HD11	1:RC:316:LEU:HD21	1.84	0.60
2:SA:251:ASP:H	2:SA:254:GLU:HG3	1.66	0.60
1:TB:83:GLN:O	1:UB:281:TYR:OH	2.17	0.60
2:TC:319:TYR:HB3	2:TC:323:VAL:HG21	1.82	0.60
2:TE:142:GLY:HA2	2:TE:183:GLU:HG3	1.84	0.60
1:TL:101:TRP:CE2	1:TL:146:GLY:HA2	2.36	0.60
1:U:256:ASN:HD22	1:U:350:LYS:HG3	1.66	0.60
2:UC:271:SER:N	2:UC:377:MET:HB2	2.16	0.60
2:UG:117:LEU:HD12	62:4B:257:TYR:HD2	1.66	0.60
1:VB:286:VAL:HG22	1:VB:363:MET:HE1	1.84	0.60
2:WK:256:GLN:O	2:WK:260:VAL:HG12	2.01	0.60
3:XE:97:LYS:HZ2	3:XE:99:MET:HE3	1.65	0.60
3:XE:97:LYS:NZ	3:XE:99:MET:HE3	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:0:42:GLN:HE21	6:0:136:THR:HG21	1.66	0.60
9:0N:92:ILE:HB	9:0N:102:HIS:HB2	1.82	0.60
10:0R:277:TYR:O	10:0R:281:ARG:HD2	2.02	0.60
13:0Y:91:ARG:HB2	13:0Y:94:GLU:HG3	1.82	0.60
24:1K:681:THR:HG21	24:1K:729:TYR:HB2	1.82	0.60
22:1y:193:ARG:O	22:1y:197:GLU:HG3	2.01	0.60
33:2I:268:ILE:HG23	33:2I:270:THR:HG23	1.83	0.60
39:2X:113:ARG:HA	39:2X:116:ARG:HG2	1.83	0.60
44:2v:217:PHE:CE2	44:2v:228:MET:HG2	2.36	0.60
46:3B:86:GLU:O	46:3B:90:GLN:HG3	2.00	0.60
57:3i:83:GLU:OE1	57:3i:86:ARG:NH2	2.34	0.60
65:5G:125:GLN:NE2	65:5G:129:ASP:OD2	2.35	0.60
65:5H:195:MET:HB3	66:5L:162:ARG:HG3	1.82	0.60
1:A:318:ARG:HB3	1:A:357:PRO:HA	1.83	0.60
1:AF:204:ASN:OD1	69:AF:500:GDP:O2'	2.18	0.60
1:AH:19:LYS:HE2	1:AH:226:ASN:CB	2.29	0.60
2:AM:102:ASN:HB3	2:AM:105:ARG:HB2	1.84	0.60
1:BJ:219:THR:O	24:1I:138:ASN:ND2	2.35	0.60
1:BN:159:TYR:HB3	1:BN:162:ARG:HG2	1.82	0.60
2:CB:274:PRO:HB3	2:CB:286:LEU:HD22	1.82	0.60
2:CH:319:TYR:HB3	2:CH:323:VAL:HG21	1.82	0.60
2:DD:248:LEU:HB2	2:DD:355:ILE:H	1.66	0.60
1:DG:35:THR:OG1	1:DG:37:GLN:NE2	2.24	0.60
1:DI:128:ASP:OD1	1:DI:129:CYS:N	2.31	0.60
2:EE:399:TYR:O	2:EE:402:ARG:NH1	2.34	0.60
2:EI:90:GLU:OE1	2:FI:280:LYS:NZ	2.34	0.60
1:EL:114:ASP:OD1	1:EL:115:SER:N	2.33	0.60
2:FA:88:ASN:HB2	2:FA:91:GLN:HE21	1.65	0.60
2:FG:142:GLY:HA2	2:FG:183:GLU:HG3	1.84	0.60
1:FJ:73:MET:HG3	1:FJ:92:PHE:HB3	1.82	0.60
1:G:101:TRP:HB2	1:G:184:ASN:HD22	1.66	0.60
1:GF:245:GLN:NE2	2:GG:223:SER:OG	2.20	0.60
2:GI:26:LEU:HD13	2:GI:363:VAL:HA	1.83	0.60
1:HD:270:PHE:O	1:HD:298:ASN:ND2	2.34	0.60
2:IE:174:SER:OG	2:IE:177:VAL:O	2.20	0.60
2:IE:212:LEU:HD21	2:IE:275:VAL:HG11	1.83	0.60
1:IF:207:LEU:HB3	1:IF:225:LEU:HG	1.83	0.60
1:IH:86:ARG:HD3	2:JH:284:GLU:HG3	1.84	0.60
1:IL:167:PHE:HD2	1:IL:233:MET:HE3	1.67	0.60
2:J:415:GLU:OE1	60:3r:19:ASN:ND2	2.34	0.60
2:JH:112:LYS:HA	2:JH:115:VAL:HG12	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JJ:402:ARG:HB3	2:JJ:405:VAL:HG11	1.84	0.60
2:KF:98:ASP:OD1	2:KF:99:ALA:N	2.35	0.60
2:KH:22:GLU:OE2	2:KH:229:ARG:NH1	2.35	0.60
1:KI:257:LEU:HA	1:KI:312:THR:HG21	1.83	0.60
1:KK:246:LEU:HD21	2:KL:179:THR:HG21	1.83	0.60
2:LD:5:ILE:HD12	2:LD:125:LEU:HD23	1.84	0.60
2:LD:240:ALA:HA	2:LD:243:ARG:HB2	1.82	0.60
1:LK:43:GLN:HE21	45:2z:79:LEU:HB3	1.67	0.60
1:LK:314:SER:HB3	1:LK:368:ILE:HB	1.82	0.60
2:LL:102:ASN:HB3	2:LL:105:ARG:HB2	1.83	0.60
1:LM:4:ILE:HB	1:LM:50:TYR:HE1	1.65	0.60
1:LO:204:ASN:OD1	69:LO:500:GDP:O2'	2.20	0.60
1:LO:294:PHE:HB3	35:2O:185:PHE:HD2	1.64	0.60
1:MB:11:GLN:HA	1:MB:72:THR:HG21	1.82	0.60
2:MC:116:ASP:OD1	2:MC:117:LEU:N	2.34	0.60
2:ME:336:LYS:NZ	1:MF:174:ARG:HA	2.16	0.60
1:ML:172:SER:OG	1:ML:203:ASP:OD2	2.18	0.60
2:NA:352:LYS:NZ	1:NB:178:THR:HG23	2.16	0.60
1:NF:226:ASN:OD1	69:NF:500:GDP:N1	2.32	0.60
1:NL:200:MET:HB3	1:NL:266:PHE:HB2	1.83	0.60
1:NL:268:MET:HG2	1:NL:300:MET:HE3	1.84	0.60
2:NM:426:ALA:HB1	2:NM:430:LYS:NZ	2.16	0.60
1:OF:417:ASP:O	1:OF:421:GLU:HG3	2.01	0.60
1:PD:246:LEU:HD11	71:PE:501:GTP:H5"	1.84	0.60
1:PH:234:SER:O	1:PH:241:ARG:NH2	2.34	0.60
2:PI:88:ASN:OD1	2:PI:89:PRO:HD2	2.02	0.60
1:PL:139:LEU:HB2	1:PL:170:ILE:HG22	1.84	0.60
2:QF:238:LEU:HD23	2:QF:318:MET:HG3	1.82	0.60
2:QH:332:ILE:O	2:QH:336:LYS:HG3	2.00	0.60
2:QL:51:THR:HG21	2:QL:243:ARG:HG2	1.83	0.60
1:RE:103:LYS:HA	1:RE:107:THR:HG22	1.83	0.60
1:SJ:67:ASP:CG	1:SJ:73:MET:HE2	2.26	0.60
2:TG:104:ALA:HB2	2:TG:413:MET:HE3	1.82	0.60
2:TK:11:GLN:HG3	2:TK:74:VAL:HG11	1.81	0.60
2:UE:241:SER:OG	2:UE:250:VAL:O	2.17	0.60
2:UE:253:THR:HA	2:UE:256:GLN:HG3	1.83	0.60
2:UK:136:MET:HG2	2:UK:169:TYR:HE2	1.67	0.60
1:V:350:LYS:HZ3	2:VA:181:VAL:N	1.99	0.60
2:VA:368:LEU:O	8:0F:147:GLN:NE2	2.34	0.60
2:VA:395:PHE:HE2	2:VA:422:ARG:HB2	1.67	0.60
1:VH:31:ASP:OD2	1:VH:37:GLN:NE2	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VJ:22:GLU:HG3	1:VJ:81:TYR:CE1	2.37	0.60
2:WA:295:VAL:HG21	2:WA:375:VAL:HG13	1.84	0.60
1:WD:313:ALA:HB1	1:WD:367:PHE:HE1	1.65	0.60
1:WJ:173:PRO:HA	1:WJ:176:SER:HB2	1.83	0.60
1:WL:337:ASN:HB3	1:WL:340:TYR:HD2	1.66	0.60
3:XE:125:LEU:HD21	3:XE:132:ILE:HD11	1.83	0.60
9:0N:581:ARG:NH2	9:0N:583:GLU:OE2	2.30	0.60
15:0f:227:ASN:ND2	15:0f:231:ASP:OD2	2.34	0.60
23:1E:202:GLU:HG3	45:2y:420:PRO:HG2	1.83	0.60
24:1H:128:THR:HG21	24:1H:149:ARG:HE	1.66	0.60
44:2v:293:TYR:OH	44:2v:380:ASP:OD1	2.20	0.60
60:3s:123:GLN:HG3	60:3s:127:ARG:NH2	2.16	0.60
2:AG:295:VAL:HG21	2:AG:375:VAL:HG13	1.82	0.60
1:AL:268:MET:HE1	1:AL:368:ILE:HG23	1.82	0.60
1:BF:417:ASP:O	1:BF:421:GLU:HG3	2.02	0.60
1:BJ:238:CYS:HB2	1:BJ:318:ARG:HD3	1.81	0.60
1:CC:27:GLU:OE2	1:CC:234:SER:OG	2.19	0.60
2:CD:237:SER:HA	2:CD:320:ARG:HD2	1.83	0.60
2:CJ:285:GLN:HE22	2:CJ:287:SER:HB3	1.66	0.60
2:DB:388:PHE:HA	2:DB:391:ILE:HG22	1.84	0.60
2:DL:51:THR:HG21	2:DL:243:ARG:HG2	1.83	0.60
1:EB:207:LEU:HB3	1:EB:225:LEU:HD11	1.83	0.60
1:EF:301:GLN:HE22	1:EF:303:ALA:HB3	1.65	0.60
1:EF:347:ASN:ND2	2:EG:178:SER:O	2.30	0.60
2:EG:356:ASN:OD1	2:EG:357:TYR:N	2.35	0.60
1:FD:272:PRO:HD3	1:FD:364:SER:HA	1.83	0.60
2:FK:345:ASP:OD2	2:FK:346:TRP:N	2.34	0.60
2:GA:145:THR:OG1	71:GA:501:GTP:O2B	2.15	0.60
2:GA:237:SER:HA	2:GA:320:ARG:HD2	1.83	0.60
2:GG:274:PRO:HD2	2:GG:371:VAL:HG21	1.84	0.60
1:GJ:200:MET:HG2	1:GJ:266:PHE:HB2	1.81	0.60
2:GK:399:TYR:OH	2:GK:415:GLU:OE2	2.18	0.60
2:HA:54:SER:HB3	2:HA:64:ARG:HE	1.65	0.60
1:HB:242:PHE:HB3	1:HB:356:ILE:HD13	1.82	0.60
1:HD:48:ASN:O	1:HD:62:ARG:NH2	2.32	0.60
2:HE:301:MET:HG2	2:HE:303:THR:H	1.66	0.60
1:HF:198:GLU:HA	1:HF:264:HIS:HB2	1.84	0.60
2:HI:251:ASP:H	2:HI:254:GLU:HB3	1.63	0.60
2:HM:167:LEU:HD13	2:HM:200:VAL:HB	1.83	0.60
1:I:362:LYS:HE3	1:I:362:LYS:HA	1.83	0.60
2:IK:352:LYS:HD2	1:IL:178:THR:HA	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JA:311:LEU:HA	1:JA:342:ILE:HD12	1.82	0.60
1:JE:186:THR:HG23	1:JE:415:MET:HE2	1.82	0.60
1:JM:99:ASN:HD22	1:JM:178:THR:HG21	1.66	0.60
2:JN:215:ARG:HH22	2:JN:299:ALA:C	2.08	0.60
2:LD:11:GLN:HG3	2:LD:74:VAL:HG11	1.84	0.60
1:MD:292:GLN:HG2	1:MD:298:ASN:HD22	1.66	0.60
2:ME:324:VAL:HG13	2:ME:327:ASP:H	1.66	0.60
1:MF:174:ARG:NE	1:MF:205:GLU:OE1	2.35	0.60
1:MF:234:SER:O	1:MF:241:ARG:NH2	2.33	0.60
1:MH:229:VAL:HG12	1:MH:233:MET:HE3	1.84	0.60
2:MK:259:LEU:HD21	2:MK:268:VAL:HG11	1.83	0.60
2:MM:103:TYR:HB3	2:MM:408:TYR:HE2	1.66	0.60
2:NE:56:THR:HG23	2:NE:58:ALA:H	1.66	0.60
1:O:323:THR:HG21	2:OA:224:TYR:CZ	2.37	0.60
2:OA:33:ASP:OD2	2:OA:34:GLY:N	2.35	0.60
1:OD:186:THR:HG22	1:OD:411:ALA:HB1	1.83	0.60
2:OE:26:LEU:HD22	2:OE:363:VAL:HG12	1.83	0.60
1:RC:342:ILE:H	1:RC:348:ASN:HD21	1.48	0.60
1:RG:9:ALA:HB3	1:RG:137:HIS:HB3	1.83	0.60
2:SC:160:ASP:OD1	2:TC:339:ARG:NH2	2.34	0.60
2:SG:27:GLU:OE2	2:SG:320:ARG:NH2	2.35	0.60
2:SG:439:SER:HB3	1:SH:391:ARG:HE	1.67	0.60
2:UA:317:LEU:HD12	2:UA:319:TYR:HE1	1.67	0.60
2:UC:286:LEU:HD12	2:UC:291:ILE:HG22	1.83	0.60
1:UJ:167:PHE:CE1	1:UJ:233:MET:HG2	2.37	0.60
1:VB:247:ASN:O	1:VB:252:LYS:NZ	2.34	0.60
1:VB:257:LEU:HD11	1:VB:314:SER:HB2	1.83	0.60
5:XN:27:GLU:HB2	5:XN:32:PRO:HA	1.83	0.60
8:0J:334:ALA:HA	8:0J:337:ARG:HE	1.67	0.60
9:0L:563:ARG:HB3	9:0L:626:ILE:HG21	1.83	0.60
9:0N:525:CYS:HB3	9:0N:531:ILE:HG12	1.84	0.60
17:0m:127:GLU:OE1	17:0m:131:LYS:NZ	2.34	0.60
28:1g:244:ARG:CG	28:1g:245:PRO:HD2	2.31	0.60
28:1g:251:HIS:CE1	28:1h:18:CYS:SG	2.95	0.60
41:2l:233:TYR:HE1	41:2l:237:LYS:HZ3	1.47	0.60
1:A:327:ASP:HB3	2:AA:177:VAL:HG11	1.83	0.60
1:AB:32:PRO:HA	1:AB:84:LEU:HD11	1.82	0.60
1:AB:55:SER:H	1:BB:283:GLY:HA2	1.66	0.60
2:AE:237:SER:HA	2:AE:320:ARG:HH11	1.67	0.60
2:AI:76:ASP:OD1	2:AI:79:ARG:NH2	2.29	0.60
2:BG:332:ILE:O	2:BG:336:LYS:HG2	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BI:390:ARG:O	2:BI:394:LYS:HG3	2.02	0.60
2:BK:53:PHE:HB3	2:BK:61:HIS:HB3	1.84	0.60
2:BM:172:TYR:CD2	2:BM:203:MET:HG3	2.37	0.60
1:BN:184:ASN:OD1	1:BN:398:TYR:OH	2.18	0.60
1:CA:175:VAL:HG23	1:CA:205:GLU:HG3	1.84	0.60
1:CE:267:MET:HE2	1:CE:299:MET:HE2	1.84	0.60
2:DH:345:ASP:OD1	2:DH:346:TRP:N	2.35	0.60
2:EA:301:MET:HE1	2:EA:307:PRO:HG3	1.83	0.60
1:EB:316:LEU:HD23	1:EB:352:SER:HB2	1.83	0.60
1:FD:336:LYS:HZ2	63:4I:314:LYS:HD3	1.67	0.60
1:FH:68:LEU:HD12	1:FH:97:ALA:HB2	1.84	0.60
2:GA:194:LEU:O	2:GA:266:HIS:NE2	2.33	0.60
2:GC:71:GLU:HB3	2:GC:98:ASP:HB3	1.84	0.60
1:GF:291:GLN:HG2	59:4O:243:PRO:HB2	1.84	0.60
1:HF:45:GLU:HG3	1:HF:46:ARG:HG2	1.83	0.60
1:HF:58:ARG:NH1	1:IF:280:GLN:OE1	2.33	0.60
2:IE:207:GLU:HA	2:IE:210:TYR:HB2	1.83	0.60
1:IH:252:LYS:O	1:IH:256:ASN:ND2	2.32	0.60
2:IM:8:HIS:HE1	2:IM:21:TRP:HE1	1.50	0.60
2:JB:64:ARG:NH1	2:JB:129:CYS:SG	2.75	0.60
1:JI:330:MET:HG2	1:JI:349:ILE:HG21	1.82	0.60
2:JN:138:PHE:HE2	2:JN:235:VAL:HG11	1.67	0.60
1:KA:81:TYR:HD2	1:KA:84:LEU:HD22	1.67	0.60
1:KA:286:VAL:HG11	1:KA:326:VAL:HA	1.84	0.60
1:KC:73:MET:HA	1:KC:76:VAL:HG12	1.83	0.60
2:KL:259:LEU:HD21	2:KL:268:VAL:HG11	1.81	0.60
2:KN:174:SER:HB3	2:KN:207:GLU:OE2	2.01	0.60
2:KN:323:VAL:HG23	2:KN:355:ILE:HG23	1.82	0.60
2:LD:105:ARG:HH21	2:LD:110:ILE:HD11	1.65	0.60
1:LE:336:LYS:HZ2	35:2N:215:ARG:HG3	1.67	0.60
1:LI:200:MET:HE2	1:LI:268:MET:HE2	1.82	0.60
1:LK:87:PRO:HD3	1:MJ:281:TYR:CD2	2.37	0.60
1:MD:346:PRO:HG2	2:ME:394:LYS:HG2	1.82	0.60
1:MH:320:ARG:NH2	40:2Z:342:THR:O	2.34	0.60
2:MI:340:THR:HG21	33:2H:185:THR:H	1.66	0.60
1:N:20:PHE:CD1	1:N:233:MET:HB3	2.36	0.60
1:NB:122:LYS:NZ	1:OB:288:GLU:OE1	2.29	0.60
2:NI:388:PHE:HA	2:NI:391:ILE:HG22	1.84	0.60
2:OE:51:THR:HG21	2:OE:243:ARG:HG2	1.83	0.60
2:OE:208:ALA:HB2	2:OE:304:LYS:HD2	1.83	0.60
1:OL:113:ILE:HA	1:OL:116:VAL:HG22	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OL:266:PHE:HD1	1:OL:368:ILE:HG22	1.66	0.60
1:PB:49:VAL:HG11	1:PB:241:ARG:HG2	1.84	0.60
1:PF:267:MET:C	1:PF:268:MET:HE2	2.27	0.60
2:PI:105:ARG:HG2	2:PI:110:ILE:HG12	1.83	0.60
1:PL:193:VAL:HA	1:PL:264:HIS:NE2	2.16	0.60
1:QG:131:GLN:HE22	1:QG:250:LEU:HB2	1.66	0.60
1:SH:9:ALA:HB3	1:SH:137:HIS:HB3	1.84	0.60
2:SI:159:VAL:HG22	57:3h:163:LEU:HB3	1.84	0.60
2:SK:123:ARG:NH2	61:3x:109:GLU:CG	2.65	0.60
1:T:130:LEU:HD11	1:T:133:PHE:HE1	1.66	0.60
1:T:135:LEU:HB3	1:T:166:THR:HG22	1.81	0.60
2:TA:33:ASP:OD2	2:TA:34:GLY:N	2.34	0.60
2:TK:298:PRO:HA	2:TK:301:MET:HE2	1.83	0.60
2:TK:338:LYS:CA	61:3x:110:PHE:HE1	2.15	0.60
1:TL:12:CYS:O	1:TL:16:ILE:HG12	2.01	0.60
1:UF:159:TYR:HB3	1:UF:162:ARG:HG2	1.83	0.60
1:UJ:309:ARG:H	1:UJ:372:THR:HG22	1.66	0.60
2:VC:320:ARG:HH21	2:VC:360:PRO:HA	1.65	0.60
1:VJ:46:ARG:NH2	2:VK:76:ASP:OD2	2.34	0.60
1:W:257:LEU:HD11	1:W:314:SER:HB3	1.84	0.60
1:W:323:THR:HG22	2:WA:223:SER:HA	1.84	0.60
2:WA:127:ASP:OD1	2:WA:128:ASN:N	2.35	0.60
2:WE:257:THR:HG1	1:WF:397:TRP:CG	2.19	0.60
1:WF:252:LYS:HZ3	71:WG:501:GTP:PB	2.25	0.60
3:X:99:MET:HE2	3:X:101:ARG:HH12	1.65	0.60
3:XB:49:ILE:HG22	3:XB:158:ALA:HA	1.83	0.60
3:XF:39:ASP:HB3	3:XF:42:ILE:HG22	1.82	0.60
3:XF:106:SER:HB2	3:XF:109:GLN:HB2	1.83	0.60
7:0D:399:LYS:HE3	17:0n:50:LEU:HD22	1.84	0.60
21:0w:81:GLU:HG2	21:0w:85:ARG:HD2	1.83	0.60
27:1S:113:THR:HG23	54:3Z:264:VAL:HG12	1.83	0.60
28:1X:227:VAL:HG21	41:2b:144:MET:HB3	1.83	0.60
42:2r:327:ARG:HB3	28:4W:119:PRO:HB3	1.82	0.60
49:3P:327:PHE:HB2	49:3P:478:ASP:OD1	2.02	0.60
67:5O:40:PHE:HB2	67:5O:94:LEU:HD12	1.83	0.60
2:BE:188:VAL:HG11	2:BE:395:PHE:CD1	2.36	0.60
2:BK:212:LEU:HD21	2:BK:275:VAL:HG21	1.84	0.60
1:DG:11:GLN:HA	1:DG:72:THR:HG21	1.84	0.60
2:EG:120:ASP:OD1	2:EG:123:ARG:NH1	2.34	0.60
2:EG:240:ALA:HA	2:EG:243:ARG:HE	1.67	0.60
1:FL:2:ARG:N	1:FL:129:CYS:SG	2.74	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HL:226:ASN:OD1	69:HL:500:GDP:N1	2.33	0.60
2:IE:71:GLU:OE1	2:IE:73:THR:OG1	2.19	0.60
2:IG:217:LEU:HB2	2:IG:275:VAL:HG12	1.84	0.60
2:II:199:ASP:OD2	2:II:256:GLN:NE2	2.35	0.60
1:JC:152:ILE:HG13	1:JC:195:ASN:HD22	1.66	0.60
2:JF:37:PRO:HG2	19:0r:182:ARG:HH22	1.66	0.60
1:JG:347:ASN:ND2	2:JH:178:SER:OG	2.33	0.60
1:JI:217:LEU:HB2	1:JI:220:PRO:HG3	1.82	0.60
2:KB:213:THR:HG23	2:KB:217:LEU:HD12	1.84	0.60
2:KF:174:SER:OG	2:KF:177:VAL:O	2.17	0.60
2:KH:336:LYS:O	2:KH:339:ARG:NH2	2.35	0.60
2:KJ:386:GLU:OE2	2:KJ:390:ARG:NH2	2.35	0.60
1:KK:208:TYR:O	1:KK:212:PHE:HB2	2.01	0.60
1:KK:377:MET:HE2	1:KK:380:ARG:HH12	1.67	0.60
2:LB:199:ASP:OD1	2:LB:200:VAL:N	2.34	0.60
2:LH:9:ILE:HD13	2:LH:150:GLY:HA2	1.83	0.60
1:LM:267:MET:HE3	1:LM:267:MET:HA	1.84	0.60
2:MA:308:ARG:NH2	33:2F:166:CYS:SG	2.74	0.60
1:MD:382:GLY:O	1:MD:386:THR:HG23	2.02	0.60
1:MH:332:ASN:O	1:MH:336:LYS:HG2	2.01	0.60
2:MK:101:ASN:HD22	2:MK:143:GLY:HA2	1.66	0.60
2:MM:116:ASP:OD1	2:MM:117:LEU:N	2.32	0.60
1:MN:198:GLU:HB2	1:MN:266:PHE:HE2	1.67	0.60
1:NF:253:LEU:HD11	1:NF:316:LEU:HD21	1.82	0.60
1:NF:324:LYS:NZ	2:NG:222:PRO:HG2	2.15	0.60
2:OA:268:VAL:HG11	2:OA:378:ILE:HG23	1.83	0.60
2:OC:51:THR:HG21	2:OC:243:ARG:HG2	1.83	0.60
1:OL:245:GLN:HE22	2:OM:224:TYR:HB2	1.66	0.60
2:OM:79:ARG:NH2	2:OM:94:SER:OG	2.25	0.60
2:PA:365:GLY:HA3	41:2k:265:THR:HG21	1.82	0.60
2:PG:39:ASP:HB3	41:2h:184:ARG:HE	1.66	0.60
2:PM:205:ASP:OD1	2:PM:303:THR:HA	2.02	0.60
2:Q:262:TYR:HD2	2:Q:265:ILE:HD12	1.65	0.60
1:QA:159:TYR:HB3	1:QA:162:ARG:HG3	1.83	0.60
2:QD:301:MET:HG2	2:QD:303:THR:H	1.67	0.60
1:QE:122:LYS:NZ	1:RE:288:GLU:OE1	2.34	0.60
1:QE:208:TYR:CE2	1:QE:225:LEU:HD11	2.37	0.60
2:QF:26:LEU:HD12	2:QF:363:VAL:HG12	1.82	0.60
2:RD:306:ASP:OD2	2:RD:308:ARG:NH2	2.35	0.60
2:RF:3:GLU:OE2	2:RF:129:CYS:HA	2.02	0.60
1:RK:272:PRO:HD3	1:RK:364:SER:HA	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SF:267:MET:HG3	1:SF:299:MET:HE3	1.84	0.60
2:TC:271:SER:HB3	2:TC:301:MET:HG3	1.84	0.60
1:TL:20:PHE:CZ	1:TL:24:ILE:HD11	2.37	0.60
2:UA:229:ARG:HD3	2:UA:363:VAL:HG21	1.84	0.60
1:UD:330:MET:HE2	1:UD:351:SER:HB3	1.83	0.60
1:UH:236:VAL:HG13	1:UH:237:THR:HG23	1.84	0.60
1:UJ:130:LEU:HD22	1:UJ:162:ARG:HD3	1.82	0.60
2:UK:372:GLN:NE2	8:0J:303:ASP:OD2	2.34	0.60
1:VB:322:SER:OG	2:VC:222:PRO:O	2.20	0.60
2:VG:259:LEU:HD21	2:VG:268:VAL:HG21	1.83	0.60
1:VH:198:GLU:HB2	1:VH:266:PHE:HE2	1.66	0.60
2:VM:157:LEU:O	2:VM:161:TYR:HB2	2.01	0.60
2:WG:174:SER:OG	2:WG:177:VAL:O	2.19	0.60
3:XB:73:LEU:HB2	3:XB:167:PHE:HB3	1.83	0.60
7:0C:276:SER:HB2	38:2U:86:ARG:HH12	1.67	0.60
9:0M:87:GLN:HG2	9:0M:105:LEU:HD12	1.83	0.60
24:1I:288:VAL:HG22	24:1I:302:LYS:HG2	1.84	0.60
49:3P:424:MET:HE1	49:3P:467:VAL:HG11	1.82	0.60
65:5H:192:ASN:ND2	66:5L:161:PRO:HD2	2.17	0.60
66:5L:147:PRO:HG3	66:5L:152:ASN:HA	1.83	0.60
1:A:268:MET:HE2	1:A:268:MET:HA	1.84	0.60
2:AC:65:CYS:O	2:AC:91:GLN:NE2	2.33	0.60
1:AD:245:GLN:OE1	2:AE:223:SER:OG	2.19	0.60
2:AG:280:LYS:HZ1	2:MG:89:PRO:HB2	1.66	0.60
1:AJ:186:THR:HG23	1:AJ:415:MET:HE2	1.83	0.60
1:AJ:200:MET:HG3	1:AJ:268:MET:HE3	1.83	0.60
1:AJ:267:MET:O	1:AJ:268:MET:HE2	2.02	0.60
2:AM:9:ILE:HD13	2:AM:150:GLY:HA2	1.82	0.60
2:BA:326:LYS:HE2	1:BB:208:TYR:HD2	1.65	0.60
1:BH:347:ASN:HD22	2:BI:178:SER:HG	1.46	0.60
2:BI:178:SER:HB2	2:BI:183:GLU:OE1	2.02	0.60
2:BK:174:SER:OG	2:BK:177:VAL:O	2.19	0.60
2:CB:122:ILE:HG21	2:CB:157:LEU:HD21	1.83	0.60
2:CB:326:LYS:HE3	1:CC:208:TYR:CD1	2.36	0.60
1:CE:62:ARG:NH1	1:CE:127:CYS:SG	2.75	0.60
2:CH:271:SER:HB3	2:CH:301:MET:HA	1.81	0.60
1:CI:324:LYS:HZ1	2:CJ:210:TYR:HB3	1.67	0.60
1:CK:232:VAL:HG22	1:CK:268:MET:HE3	1.83	0.60
2:CL:253:THR:HA	2:CL:256:GLN:HB3	1.81	0.60
2:DJ:53:PHE:HB3	2:DJ:61:HIS:HB3	1.82	0.60
2:EK:175:PRO:HG3	2:EK:390:ARG:HH21	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EL:185:THR:O	1:EL:189:VAL:HG13	2.01	0.60
1:FF:66:MET:HE3	1:FF:116:VAL:HG21	1.82	0.60
1:G:229:VAL:O	1:G:233:MET:HG3	2.02	0.60
1:G:375:GLN:O	1:G:379:ARG:HG2	2.02	0.60
1:GD:109:GLY:HA2	1:GD:147:MET:HE2	1.83	0.60
1:GF:258:VAL:HG23	2:GG:407:TRP:HE1	1.67	0.60
2:HA:319:TYR:HB3	2:HA:323:VAL:HG21	1.84	0.60
2:HE:298:PRO:HD2	2:HE:299:ALA:N	2.17	0.60
2:IK:233:GLN:HG3	2:IK:368:LEU:HD22	1.83	0.60
2:J:251:ASP:OD1	2:J:252:LEU:N	2.33	0.60
2:J:258:ASN:O	2:J:352:LYS:NZ	2.35	0.60
2:JB:324:VAL:HG13	2:JB:327:ASP:H	1.66	0.60
1:JE:217:LEU:HD22	19:0r:148:THR:HG21	1.83	0.60
1:JE:406:MET:HE1	1:ND:306:ARG:CZ	2.31	0.60
1:JI:27:GLU:OE1	1:JI:241:ARG:NH2	2.34	0.60
2:JL:258:ASN:ND2	2:JL:352:LYS:HD3	2.17	0.60
2:JN:187:CYS:O	2:JN:191:THR:HG23	2.02	0.60
2:JN:416:GLY:HA3	2:NM:308:ARG:HH21	1.67	0.60
2:KF:412:GLY:O	22:1x:101:ARG:NH2	2.34	0.60
1:KK:311:LEU:HA	1:KK:342:ILE:HD12	1.84	0.60
1:LA:208:TYR:CE2	1:LA:225:LEU:HD11	2.36	0.60
1:LE:31:ASP:OD2	1:LE:35:THR:OG1	2.19	0.60
2:LJ:198:THR:HG21	2:LJ:201:ALA:HB2	1.84	0.60
2:LL:311:LYS:NZ	31:1s:32:SER:OG	2.35	0.60
2:LN:75:VAL:HG21	2:LN:94:SER:HB2	1.84	0.60
1:M:119:VAL:O	1:M:123:GLU:HG2	2.02	0.60
1:M:232:VAL:HG13	1:M:268:MET:HE2	1.84	0.60
2:MC:408:TYR:HB3	2:MC:413:MET:HE2	1.83	0.60
1:MF:22:GLU:HB2	26:1Q:14:LYS:NZ	2.17	0.60
1:MF:133:PHE:HB2	1:MF:164:MET:HG2	1.84	0.60
1:NH:222:PHE:O	1:NH:226:ASN:ND2	2.35	0.60
1:PB:83:GLN:O	1:QA:281:TYR:OH	2.13	0.60
1:PJ:178:THR:HB	1:PJ:181:GLU:HG3	1.84	0.60
2:PK:50:ASN:OD1	2:PK:64:ARG:NH2	2.34	0.60
1:PL:187:LEU:HD21	1:PL:408:PHE:HE1	1.67	0.60
1:QC:62:ARG:NH1	1:QC:127:CYS:SG	2.75	0.60
2:RH:137:VAL:HG11	2:RH:154:LEU:HD11	1.84	0.60
1:RI:189:VAL:HG21	1:RI:415:MET:SD	2.42	0.60
2:RJ:317:LEU:HD23	2:RJ:377:MET:HB2	1.84	0.60
1:RK:45:GLU:OE1	1:RK:46:ARG:HG2	2.02	0.60
2:SG:159:VAL:HG22	57:3g:163:LEU:HB3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:TA:33:ASP:OD2	2:TA:35:SER:N	2.34	0.60
1:TD:326:VAL:HG11	1:TD:353:ILE:HD11	1.84	0.60
1:TH:347:ASN:ND2	2:TI:178:SER:O	2.32	0.60
2:UA:116:ASP:OD1	2:UA:117:LEU:N	2.35	0.60
1:UD:289:LEU:HD11	1:UD:363:MET:HG3	1.84	0.60
2:UI:206:ASN:OD1	71:UI:501:GTP:O2'	2.19	0.60
2:UK:257:THR:HG1	1:UL:397:TRP:CD1	2.20	0.60
1:UL:6:SER:HA	1:UL:134:GLN:HB3	1.84	0.60
1:UL:67:ASP:O	1:UL:92:PHE:HA	2.01	0.60
2:VA:318:MET:HA	2:VA:318:MET:HE3	1.83	0.60
2:VK:75:VAL:HG21	2:VK:94:SER:HB2	1.82	0.60
1:W:287:ALA:HA	1:W:329:GLN:HE22	1.67	0.60
13:0Y:85:THR:OG1	13:0Y:87:GLU:OE1	2.19	0.60
32:2C:45:ILE:HG22	32:2C:46:LYS:HG3	1.82	0.60
35:2O:21:ARG:HE	51:X1:187:GLN:HG2	1.65	0.60
49:3P:403:ALA:HB1	49:3P:493:LEU:HD11	1.83	0.60
56:3d:172:ARG:HA	56:3d:176:ASP:HB2	1.81	0.60
64:5D:107:GLU:HA	64:5D:110:PHE:CE1	2.37	0.60
1:AD:410:GLU:OE2	5:XN:251:GLN:NE2	2.34	0.60
1:AF:10:GLY:O	1:AF:14:ASN:ND2	2.33	0.60
1:AF:43:GLN:O	1:AF:47:ILE:HB	2.02	0.60
1:AF:347:ASN:ND2	2:AG:178:SER:O	2.35	0.60
1:BL:320:ARG:NH1	1:BL:355:ASP:OD2	2.35	0.60
2:CF:240:ALA:HA	2:CF:243:ARG:HE	1.67	0.60
1:CI:350:LYS:HG2	2:CJ:180:ALA:HA	1.83	0.60
2:CJ:11:GLN:HG3	2:CJ:74:VAL:HG11	1.82	0.60
1:CM:261:PRO:HD2	1:CM:262:ARG:N	2.17	0.60
1:DE:189:VAL:CG1	1:DE:415:MET:HE1	2.31	0.60
1:DK:213:ARG:HH21	1:DK:216:LYS:HE2	1.66	0.60
2:EE:51:THR:HG21	2:EE:243:ARG:HG2	1.84	0.60
1:EJ:267:MET:HG3	1:EJ:268:MET:H	1.66	0.60
1:FH:27:GLU:OE1	1:FH:241:ARG:NH2	2.35	0.60
1:G:190:HIS:HB2	1:G:414:ASN:HD21	1.66	0.60
2:GC:187:CYS:O	2:GC:191:THR:HG23	2.02	0.60
2:GC:259:LEU:HD21	2:GC:268:VAL:HG11	1.84	0.60
2:GI:306:ASP:OD1	2:GI:308:ARG:NH2	2.35	0.60
2:GK:58:ALA:HB3	2:GK:60:LYS:HG2	1.84	0.60
2:GK:335:ILE:HG23	2:GK:341:ILE:HD11	1.84	0.60
1:GL:268:MET:HE1	1:GL:368:ILE:HG12	1.83	0.60
1:H:350:LYS:NZ	1:H:352:SER:OG	2.27	0.60
1:HB:48:ASN:O	1:HB:62:ARG:NH1	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HC:155:GLU:HA	2:HC:197:HIS:CD2	2.37	0.60
2:HM:83:TYR:HB3	2:HM:86:LEU:HB3	1.84	0.60
2:IA:258:ASN:ND2	1:IB:179:VAL:HG22	2.17	0.60
2:IM:53:PHE:HB3	2:IM:61:HIS:HB3	1.84	0.60
1:JA:386:THR:O	1:JA:390:ARG:HG2	2.02	0.60
2:JL:76:ASP:OD1	2:JL:77:GLU:N	2.35	0.60
2:K:326:LYS:HE3	1:KA:212:PHE:CZ	2.37	0.60
1:KA:34:GLY:HA3	1:KA:58:ARG:HG3	1.83	0.60
1:KA:293:MET:HG2	1:KA:367:PHE:HB2	1.84	0.60
2:KH:265:ILE:HG22	2:KH:380:ASN:HD21	1.67	0.60
2:KH:317:LEU:HD23	2:KH:377:MET:HB2	1.83	0.60
1:LE:398:TYR:HB3	1:LE:403:MET:HE2	1.83	0.60
2:LF:49:PHE:HD2	2:LF:53:PHE:HB2	1.66	0.60
1:LG:186:THR:HG22	1:LG:411:ALA:HB1	1.84	0.60
2:MI:372:GLN:HG3	23:1B:359:LEU:HD22	1.82	0.60
2:NA:250:VAL:HA	2:NA:254:GLU:HG2	1.84	0.60
1:OH:347:ASN:ND2	2:OI:178:SER:OG	2.35	0.60
2:PA:138:PHE:HZ	2:PA:235:VAL:HG21	1.67	0.60
1:PD:198:GLU:HB2	1:PD:266:PHE:HE1	1.66	0.60
1:PH:200:MET:HB2	1:PH:268:MET:SD	2.42	0.60
1:PJ:262:ARG:NH2	1:PJ:414:ASN:OD1	2.31	0.60
1:PL:257:LEU:O	1:PL:370:ASN:ND2	2.33	0.60
2:Q:9:ILE:HD13	2:Q:150:GLY:HA2	1.83	0.60
2:QB:172:TYR:CD2	2:QB:203:MET:HG3	2.36	0.60
2:QD:362:VAL:HG12	2:QD:370:LYS:HB3	1.84	0.60
2:QJ:35:SER:HB3	41:2e:190:TRP:HH2	1.67	0.60
1:RA:68:LEU:HD13	1:RA:143:THR:HG23	1.84	0.60
1:RA:87:PRO:HD3	1:S:281:TYR:CD1	2.37	0.60
1:RA:91:ILE:HD11	1:RA:119:VAL:HG11	1.84	0.60
2:RD:209:ILE:HG21	2:RD:227:VAL:HG23	1.84	0.60
2:SE:116:ASP:OD2	61:3w:241:GLU:N	2.35	0.60
1:SF:164:MET:HB3	1:SF:197:ASP:H	1.67	0.60
2:SK:252:LEU:HD13	2:SK:255:PHE:HE2	1.66	0.60
1:TB:236:VAL:HG23	1:TB:237:THR:HG23	1.83	0.60
2:TC:180:ALA:HB3	2:TC:183:GLU:HB2	1.83	0.60
1:TH:252:LYS:NZ	71:TI:501:GTP:O3G	2.34	0.60
2:TI:206:ASN:OD1	71:TI:501:GTP:O2'	2.15	0.60
1:TL:101:TRP:NE1	1:TL:188:SER:OG	2.33	0.60
2:UC:212:LEU:HD21	2:UC:275:VAL:HG11	1.83	0.60
1:UF:2:ARG:HH21	2:UG:72:PRO:HG2	1.67	0.60
1:UF:178:THR:HB	1:UF:181:GLU:HG3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VG:132:LEU:HD22	2:VG:164:LYS:HE3	1.84	0.60
1:WB:178:THR:HG22	1:WB:180:VAL:H	1.67	0.60
1:WH:125:GLU:OE2	3:XD:44:SER:OG	2.20	0.60
1:WL:375:GLN:NE2	1:WL:426:GLN:OE1	2.35	0.60
3:XE:93:ILE:O	3:XE:100:ARG:HA	2.01	0.60
4:XM:164:ASP:OD1	4:XM:167:ARG:NH1	2.29	0.60
4:XR:89:PRO:O	4:XR:100:LYS:NZ	2.33	0.60
6:0A:105:HIS:ND1	14:0d:227:MET:HE3	2.17	0.60
9:0M:558:LEU:HD12	9:0M:565:PHE:HB3	1.84	0.60
9:0N:173:VAL:HA	9:0N:201:SER:HB2	1.84	0.60
14:0d:228:GLN:HE22	33:2I:171:LEU:H	1.50	0.60
16:0k:676:ILE:O	16:0k:717:VAL:N	2.35	0.60
23:1B:261:LEU:HD12	45:2z:146:LEU:HD22	1.84	0.60
26:1Q:176:ARG:NH1	26:1Q:187:PRO:O	2.35	0.60
28:1g:147:GLY:O	28:1g:151:GLU:HG2	2.01	0.60
44:2v:308:ARG:HG3	44:2v:395:PHE:CD1	2.37	0.60
65:5G:70:ALA:O	65:5G:73:GLN:NE2	2.35	0.60
1:AB:63:ALA:O	1:AB:89:ASN:ND2	2.35	0.59
2:AG:255:PHE:HD1	2:AG:259:LEU:HD12	1.66	0.59
2:AI:76:ASP:HB3	16:0l:794:LEU:HD11	1.84	0.59
1:AJ:326:VAL:HG11	1:AJ:353:ILE:HD11	1.83	0.59
2:AK:101:ASN:HB3	2:AK:186:ASN:HD21	1.66	0.59
1:AN:170:ILE:HD11	1:AN:301:GLN:HE21	1.67	0.59
1:BF:139:LEU:HG	1:BF:168:SER:HB3	1.84	0.59
1:BL:163:ILE:HG21	1:BL:250:LEU:HB3	1.83	0.59
1:BL:331:LEU:HB2	2:BM:177:VAL:HG23	1.83	0.59
2:BM:101:ASN:ND2	71:BM:501:GTP:O1A	2.35	0.59
1:CA:232:VAL:HG11	1:CA:268:MET:HG2	1.83	0.59
2:CH:26:LEU:HD22	2:CH:363:VAL:HG12	1.83	0.59
1:CI:214:THR:OG1	1:CI:297:LYS:NZ	2.35	0.59
2:DH:241:SER:HB3	2:DH:318:MET:HE1	1.84	0.59
2:DJ:212:LEU:HD21	2:DJ:275:VAL:HG11	1.84	0.59
1:DK:61:PRO:HD3	1:DK:84:LEU:HG	1.83	0.59
2:DL:90:GLU:HG2	2:DL:91:GLN:OE1	2.01	0.59
1:EH:163:ILE:HG21	1:EH:250:LEU:HB3	1.83	0.59
2:EK:136:MET:HE3	2:EK:138:PHE:HZ	1.67	0.59
2:FE:109:THR:HG23	2:FE:110:ILE:HG12	1.83	0.59
1:FF:226:ASN:OD1	69:FF:500:GDP:N1	2.32	0.59
1:FH:245:GLN:OE1	2:FI:223:SER:OG	2.20	0.59
2:FI:77:GLU:OE1	28:4W:146:LYS:HD3	2.02	0.59
1:GB:165:MET:HE2	1:GB:200:MET:HE3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:421:GLU:HA	1:H:424:GLN:HG3	1.83	0.59
2:HI:328:VAL:O	2:HI:332:ILE:HG12	2.02	0.59
2:HK:259:LEU:HD21	2:HK:378:ILE:HG12	1.84	0.59
2:IC:395:PHE:HE2	2:IC:422:ARG:HB2	1.67	0.59
1:IF:53:GLU:OE2	47:3D:39:GLY:N	2.35	0.59
1:IH:290:THR:HA	1:IH:293:MET:HE2	1.84	0.59
2:IM:336:LYS:HE3	2:IM:351:PHE:HD1	1.66	0.59
1:JC:135:LEU:HB3	1:JC:166:THR:HG22	1.84	0.59
1:JC:207:LEU:HD22	1:JC:300:MET:HB2	1.84	0.59
1:JC:226:ASN:OD1	69:JC:500:GDP:N1	2.29	0.59
1:JM:385:PHE:HE2	1:JM:412:GLU:HB2	1.67	0.59
2:K:325:PRO:HA	2:K:328:VAL:HG22	1.84	0.59
1:KA:236:VAL:HG13	1:KA:237:THR:HG23	1.84	0.59
1:KA:290:THR:HA	1:KA:293:MET:HE3	1.84	0.59
1:KA:316:LEU:HD23	1:KA:352:SER:HB2	1.84	0.59
1:KC:253:LEU:HD21	1:KC:316:LEU:HD21	1.84	0.59
2:KN:138:PHE:HE2	2:KN:235:VAL:HG21	1.67	0.59
2:LB:89:PRO:HB2	2:MA:280:LYS:HZ2	1.67	0.59
2:LN:67:PHE:HB2	2:LN:92:LEU:HD12	1.83	0.59
2:MC:393:HIS:HE1	2:MC:397:LEU:HD12	1.65	0.59
1:MJ:73:MET:HE3	1:MJ:90:PHE:HD2	1.67	0.59
1:NB:134:GLN:HA	1:NB:165:MET:HB2	1.83	0.59
1:ND:139:LEU:HD21	1:ND:168:SER:HB2	1.84	0.59
1:NJ:262:ARG:NH2	1:NJ:414:ASN:OD1	2.34	0.59
1:O:8:GLN:HB2	1:O:65:LEU:HD13	1.83	0.59
1:O:314:SER:HA	1:O:350:LYS:HB3	1.84	0.59
2:OA:112:LYS:HA	2:OA:115:VAL:HG12	1.83	0.59
1:OD:67:ASP:O	1:OD:92:PHE:HA	2.02	0.59
2:OG:195:LEU:HD21	2:OG:264:ARG:HE	1.67	0.59
1:OH:322:SER:OG	2:OI:222:PRO:O	2.18	0.59
1:OL:148:GLY:O	1:OL:152:ILE:HG12	2.02	0.59
2:PK:174:SER:OG	2:PK:177:VAL:O	2.20	0.59
2:PM:259:LEU:HD21	2:PM:268:VAL:HG11	1.84	0.59
2:QB:195:LEU:HD11	2:QB:428:LEU:HD11	1.84	0.59
2:QD:151:ALA:O	2:QD:155:GLU:HG3	2.01	0.59
2:QH:282:TYR:HB3	41:2i:471:LEU:HD13	1.83	0.59
1:QI:330:MET:SD	1:QI:349:ILE:HG21	2.42	0.59
2:RB:298:PRO:HB3	2:RB:307:PRO:HD2	1.83	0.59
1:RE:221:THR:HG22	1:RE:222:PHE:H	1.66	0.59
2:RJ:340:THR:HG23	2:RJ:341:ILE:HD12	1.84	0.59
1:RK:292:GLN:O	1:RK:298:ASN:ND2	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SF:355:ASP:OD1	28:1U:219:THR:OG1	2.19	0.59
1:TF:234:SER:O	1:TF:241:ARG:NH2	2.35	0.59
1:TL:3:GLU:OE2	1:TL:129:CYS:N	2.35	0.59
1:UF:66:MET:HE1	1:UF:147:MET:HG2	1.84	0.59
1:UL:257:LEU:HD21	1:UL:314:SER:HB3	1.83	0.59
2:WI:258:ASN:HD21	1:WJ:99:ASN:HD22	1.47	0.59
6:0A:93:GLN:NE2	6:0A:115:ALA:O	2.33	0.59
14:0d:210:VAL:O	14:0d:214:ILE:HG12	2.01	0.59
16:0l:539:LEU:HG	16:0l:616:LEU:HD21	1.83	0.59
18:0p:192:MET:HE3	18:0p:218:GLU:HG2	1.84	0.59
24:1I:137:ASP:OD1	24:1I:138:ASN:N	2.35	0.59
26:1Q:493:VAL:HG22	26:1Q:502:LEU:HD11	1.84	0.59
28:1V:20:CYS:HB3	28:1V:30:CYS:SG	2.41	0.59
40:2Z:337:ARG:HA	40:2Z:340:ILE:HG22	1.84	0.59
46:3B:237:GLN:HB3	46:3B:259:ARG:HH22	1.66	0.59
49:3P:324:ARG:NH1	49:3P:451:ASP:OD2	2.35	0.59
1:BD:257:LEU:HD11	1:BD:314:SER:OG	2.01	0.59
2:CD:219:ILE:HD11	2:CD:222:PRO:HB3	1.82	0.59
1:CE:263:LEU:HD11	1:CE:425:TYR:HD2	1.66	0.59
1:CG:36:TYR:OH	1:CG:40:SER:O	2.20	0.59
2:CH:116:ASP:OD1	2:CH:117:LEU:N	2.35	0.59
2:CJ:326:LYS:HE3	1:CK:220:PRO:HD2	1.84	0.59
2:CL:183:GLU:HB3	2:CL:184:PRO:HD3	1.83	0.59
2:DB:311:LYS:HE3	2:DB:344:VAL:HA	1.85	0.59
2:DJ:317:LEU:HD23	2:DJ:377:MET:HB2	1.83	0.59
1:DM:314:SER:HB3	1:DM:368:ILE:HG13	1.83	0.59
2:EC:66:LEU:HD13	2:EC:122:ILE:HG12	1.82	0.59
2:EC:70:LEU:HD23	2:EC:145:THR:HG23	1.84	0.59
2:EG:155:GLU:HG2	2:EG:197:HIS:CD2	2.36	0.59
1:FB:161:ASP:O	1:FB:251:ARG:NH2	2.35	0.59
1:FL:318:ARG:HE	1:FL:358:PRO:HG3	1.66	0.59
1:G:336:LYS:HZ1	59:4O:89:ARG:HG3	1.66	0.59
1:GF:83:GLN:CD	10:0R:126:ARG:HH12	2.10	0.59
2:GI:172:TYR:CD2	2:GI:203:MET:HG3	2.36	0.59
1:H:222:PHE:O	1:H:226:ASN:ND2	2.35	0.59
1:HD:51:PHE:HB3	1:HD:59:TYR:HB3	1.83	0.59
2:HK:335:ILE:HG23	2:HK:341:ILE:HD11	1.85	0.59
1:IL:3:GLU:O	1:IL:131:GLN:N	2.35	0.59
2:J:212:LEU:O	2:J:216:SER:HB2	2.02	0.59
1:JE:68:LEU:HD12	1:JE:97:ALA:HB2	1.84	0.59
2:K:88:ASN:OD1	2:K:89:PRO:HD2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KG:235:GLY:HA3	1:KG:366:THR:HG21	1.84	0.59
2:KH:27:GLU:OE2	2:KH:236:SER:OG	2.19	0.59
1:KI:304:ASP:OD2	1:KI:306:ARG:NH1	2.35	0.59
2:KL:155:GLU:HG2	2:KL:197:HIS:CD2	2.36	0.59
2:KL:257:THR:HG1	1:KM:397:TRP:CG	2.19	0.59
1:LA:113:ILE:HG12	1:LA:117:LEU:HD23	1.83	0.59
2:LB:338:LYS:HG2	2:LB:340:THR:HG22	1.83	0.59
2:LD:237:SER:HA	2:LD:320:ARG:HD2	1.84	0.59
1:LG:8:GLN:HE22	1:LG:63:ALA:HB1	1.67	0.59
1:LG:207:LEU:HB3	1:LG:225:LEU:HD22	1.83	0.59
1:LK:39:ASP:CG	45:2z:78:LYS:HD2	2.26	0.59
1:LK:167:PHE:HA	1:LK:200:MET:HB3	1.84	0.59
2:LL:258:ASN:HD22	1:LM:179:VAL:HG22	1.66	0.59
1:MD:66:MET:HG3	1:MD:147:MET:HE3	1.84	0.59
1:MJ:236:VAL:HG13	1:MJ:237:THR:HG23	1.82	0.59
1:NB:167:PHE:CE2	1:NB:233:MET:HG3	2.36	0.59
2:NE:75:VAL:HG21	2:NE:94:SER:HB2	1.84	0.59
1:NF:19:LYS:HA	1:NF:22:GLU:HG2	1.84	0.59
1:NF:167:PHE:CZ	1:NF:233:MET:HG3	2.37	0.59
2:NI:81:GLY:O	2:NI:84:ARG:NH1	2.35	0.59
1:O:345:ILE:HD12	2:OA:398:MET:HG3	1.82	0.59
1:OD:51:PHE:HB3	1:OD:59:TYR:HB3	1.83	0.59
1:OH:113:ILE:HA	1:OH:116:VAL:HG12	1.84	0.59
2:OI:88:ASN:OD1	2:OI:89:PRO:HD2	2.02	0.59
2:PA:121:ARG:NH2	59:4a:101:GLY:O	2.29	0.59
2:PE:268:VAL:HG11	2:PE:378:ILE:HG13	1.84	0.59
2:PG:315:CYS:HB3	2:PG:377:MET:HE2	1.84	0.59
1:PH:109:GLY:O	1:PH:113:ILE:HB	2.01	0.59
2:PI:413:MET:HE3	2:PI:417:GLU:HB2	1.83	0.59
1:PJ:48:ASN:O	1:PJ:62:ARG:NH1	2.21	0.59
1:PJ:121:ARG:NH1	1:PJ:158:GLU:OE2	2.35	0.59
2:Q:166:LYS:HB2	2:Q:199:ASP:H	1.66	0.59
2:Q:392:ASP:OD2	2:Q:422:ARG:NH1	2.35	0.59
2:QH:325:PRO:HA	2:QH:328:VAL:HG12	1.83	0.59
1:QK:46:ARG:NH1	2:QL:73:THR:HG22	2.17	0.59
2:RF:50:ASN:O	2:RF:64:ARG:NH1	2.35	0.59
2:TC:239:THR:HG23	2:TC:243:ARG:HD2	1.83	0.59
2:TE:4:ALA:HB3	2:TE:52:PHE:HE1	1.67	0.59
2:TG:260:VAL:HB	1:TH:397:TRP:HZ2	1.66	0.59
2:TI:133:GLN:O	2:TI:165:SER:HB3	2.01	0.59
1:UD:214:THR:OG1	1:UD:297:LYS:O	2.21	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:UG:203:MET:HE2	2:UG:384:ILE:HD11	1.83	0.59
1:UJ:125:GLU:OE1	62:4B:357:GLY:N	2.35	0.59
1:VH:8:GLN:HB3	1:VH:14:ASN:HA	1.82	0.59
1:VJ:226:ASN:HA	1:VJ:229:VAL:HG22	1.84	0.59
1:WB:10:GLY:O	1:WB:14:ASN:ND2	2.35	0.59
1:WB:274:THR:OG1	1:WB:279:GLN:OE1	2.19	0.59
2:WC:402:ARG:HD3	2:WC:405:VAL:HG21	1.82	0.59
2:WG:251:ASP:H	2:WG:254:GLU:HG3	1.67	0.59
8:0I:45:LEU:HD22	13:0Z:274:VAL:HG11	1.84	0.59
8:0J:455:ARG:HD3	8:0J:476:LEU:HD13	1.84	0.59
9:0M:138:ASP:HB2	9:0M:145:LEU:HD11	1.83	0.59
9:0N:18:TYR:HD2	9:0N:304:SER:HA	1.67	0.59
9:0N:566:VAL:HG21	9:0N:607:ILE:HG21	1.84	0.59
23:1A:152:ASP:OD1	45:2y:255:ARG:NH2	2.27	0.59
25:1O:551:GLY:O	25:1O:555:ILE:HG12	2.02	0.59
27:1S:282:MET:HE3	27:1S:308:PHE:CE1	2.38	0.59
27:1T:714:PRO:HB3	27:1T:724:GLU:HG2	1.84	0.59
38:2U:126:ARG:NH1	38:2U:135:ARG:HG2	2.17	0.59
38:2U:154:PRO:HB2	38:2U:156:TYR:HE2	1.67	0.59
44:2w:234:ARG:O	44:2w:238:ARG:HG3	2.03	0.59
45:2y:350:TYR:O	45:2y:354:TYR:HB2	2.02	0.59
49:3P:393:ARG:NH1	49:3P:478:ASP:HB2	2.16	0.59
53:3W:192:ASP:HB3	53:3W:205:ALA:HA	1.84	0.59
57:3g:113:GLU:OE2	57:3g:117:GLN:NE2	2.34	0.59
63:4I:282:ARG:HB2	63:4I:285:GLU:HB3	1.83	0.59
67:5P:91:PHE:HD1	68:5T:94:CYS:HA	1.66	0.59
2:AE:264:ARG:HD3	3:XB:115:LYS:HD3	1.84	0.59
1:AJ:131:GLN:HE22	1:AJ:250:LEU:HB2	1.66	0.59
1:AN:63:ALA:O	1:AN:89:ASN:ND2	2.34	0.59
2:BI:237:SER:HA	2:BI:320:ARG:HD2	1.84	0.59
1:CI:139:LEU:HG	1:CI:168:SER:HB2	1.84	0.59
2:D:385:ALA:HB2	2:D:432:TYR:HD2	1.68	0.59
1:DA:169:VAL:HA	1:DA:202:ILE:HB	1.82	0.59
1:DG:270:PHE:O	1:DG:298:ASN:ND2	2.34	0.59
2:DL:174:SER:OG	2:DL:177:VAL:O	2.17	0.59
2:EE:64:ARG:HB3	2:EE:125:LEU:HD21	1.83	0.59
1:EF:48:ASN:O	1:EF:62:ARG:NH1	2.35	0.59
1:EH:177:ASP:OD2	1:EH:178:THR:N	2.34	0.59
2:EI:251:ASP:H	2:EI:254:GLU:HB2	1.66	0.59
1:EJ:237:THR:OG1	1:EJ:241:ARG:NH1	2.35	0.59
1:FD:165:MET:HE2	1:FD:167:PHE:CZ	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FF:309:ARG:NH2	1:FF:343:GLU:OE2	2.35	0.59
2:GK:56:THR:HG23	2:GK:58:ALA:H	1.67	0.59
2:GK:199:ASP:HB3	2:GK:256:GLN:NE2	2.16	0.59
1:HF:150:LEU:O	1:HF:154:LYS:HG2	2.02	0.59
1:HH:19:LYS:HG3	1:HH:226:ASN:HB2	1.84	0.59
2:HK:209:ILE:HG12	2:HK:302:LEU:HD22	1.84	0.59
2:IG:335:ILE:HG23	2:IG:341:ILE:HD11	1.84	0.59
2:JB:296:PHE:CE1	2:JB:377:MET:HE1	2.37	0.59
2:JL:307:PRO:HB3	2:JL:312:TYR:CE1	2.34	0.59
2:KD:67:PHE:HB2	2:KD:92:LEU:HD12	1.84	0.59
1:KE:121:ARG:NH1	1:KE:158:GLU:OE2	2.35	0.59
1:KG:2:ARG:HH21	2:KH:96:LYS:HA	1.68	0.59
1:KM:350:LYS:HZ3	2:KN:180:ALA:HB2	1.66	0.59
2:KN:11:GLN:HG2	2:KN:74:VAL:HG11	1.83	0.59
2:L:338:LYS:HG3	2:L:340:THR:HG22	1.84	0.59
1:LG:410:GLU:OE2	13:0Z:92:LYS:HG3	2.02	0.59
2:LH:335:ILE:HA	2:LH:338:LYS:HZ2	1.66	0.59
1:LI:100:ASN:OD1	1:LI:103:LYS:N	2.31	0.59
1:LK:284:LEU:HD21	1:LK:363:MET:HB2	1.85	0.59
1:LM:325:GLU:HA	1:LM:328:GLU:HG3	1.85	0.59
2:LN:192:HIS:HD2	33:2I:229:SER:HB2	1.67	0.59
1:NB:237:THR:HG22	1:NB:250:LEU:HD21	1.84	0.59
2:NC:64:ARG:HG2	2:NC:125:LEU:HD11	1.84	0.59
2:NE:119:LEU:HB3	2:NE:123:ARG:HH12	1.68	0.59
2:NE:199:ASP:HB3	2:NE:256:GLN:NE2	2.17	0.59
2:NG:180:ALA:HB3	2:NG:183:GLU:HB2	1.84	0.59
2:NG:257:THR:HG1	1:NH:397:TRP:CG	2.20	0.59
2:NK:137:VAL:HG11	2:NK:154:LEU:HD21	1.84	0.59
2:OI:90:GLU:HB2	2:OI:121:ARG:NH1	2.17	0.59
2:OM:2:ARG:NH2	2:OM:47:ASP:O	2.35	0.59
1:PD:178:THR:HB	1:PD:181:GLU:HG3	1.84	0.59
1:PF:378:PHE:HD1	1:PF:418:LEU:HD22	1.68	0.59
1:PH:280:GLN:NE2	41:2l:390:GLU:OE1	2.33	0.59
1:QG:49:VAL:HG11	1:QG:241:ARG:HG2	1.83	0.59
2:RD:1:MET:N	2:RD:3:GLU:OE2	2.34	0.59
2:RH:212:LEU:HD21	2:RH:275:VAL:HG21	1.83	0.59
2:RJ:286:LEU:O	2:RJ:373:ARG:NH1	2.31	0.59
1:SD:293:MET:HE2	1:SD:365:VAL:HG11	1.84	0.59
1:TD:371:ASN:OD1	1:TD:372:THR:N	2.36	0.59
2:UE:286:LEU:HB3	2:UE:291:ILE:HD11	1.85	0.59
2:VI:418:PHE:CG	2:VI:418:PHE:CE2	2.89	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VK:172:TYR:CD2	2:VK:203:MET:HG3	2.37	0.59
2:VM:70:LEU:HD12	2:VM:145:THR:HG22	1.84	0.59
2:WA:262:TYR:OH	1:WB:391:ARG:O	2.19	0.59
2:WC:265:ILE:HG21	2:WC:313:MET:HE1	1.83	0.59
1:WH:404:ASP:OD1	1:WH:405:GLU:N	2.36	0.59
3:XA:74:PRO:HD2	3:XA:169:ASP:HA	1.85	0.59
6:0:181:ARG:CZ	6:0:210:ARG:HH21	2.16	0.59
14:0d:293:MET:HE3	14:0d:330:ILE:HG23	1.83	0.59
16:0k:893:ALA:HB1	16:0k:953:LEU:HD11	1.84	0.59
20:0t:73:ASN:ND2	20:0t:226:SER:OG	2.34	0.59
23:1E:94:LEU:HB3	45:2z:75:ILE:HD11	1.83	0.59
25:1O:55:HIS:O	40:2Z:277:ARG:NH1	2.32	0.59
25:1O:594:SER:HB3	25:1O:599:LEU:HB2	1.84	0.59
25:1O:718:ARG:HB3	25:1O:758:ASP:HB3	1.84	0.59
31:1r:216:THR:OG1	31:1r:219:GLU:OE1	2.20	0.59
67:5O:26:VAL:HG22	67:5O:110:VAL:HG22	1.84	0.59
1:BB:268:MET:HE1	1:BB:368:ILE:HG23	1.85	0.59
2:BI:9:ILE:HD11	2:BI:153:LEU:HD23	1.84	0.59
2:CD:1:MET:N	2:CD:3:GLU:OE2	2.34	0.59
2:EE:234:VAL:HG21	2:EE:302:LEU:HD11	1.84	0.59
1:FD:322:SER:OG	2:FE:222:PRO:O	2.19	0.59
1:FH:86:ARG:NH1	1:FH:123:GLU:OE2	2.34	0.59
2:FI:204:LEU:HD22	2:FI:231:ILE:HG12	1.84	0.59
2:FK:11:GLN:HG3	2:FK:74:VAL:HG11	1.85	0.59
2:FK:209:ILE:HG21	2:FK:227:VAL:HG13	1.83	0.59
1:G:267:MET:N	1:G:369:GLY:O	2.30	0.59
1:GH:322:SER:OG	2:GI:222:PRO:O	2.19	0.59
1:H:237:THR:HG22	1:H:250:LEU:HD21	1.83	0.59
1:HB:290:THR:HA	1:HB:293:MET:HE2	1.84	0.59
2:HC:90:GLU:HB2	2:HC:121:ARG:HE	1.68	0.59
1:HD:300:MET:N	1:HD:300:MET:SD	2.75	0.59
2:HG:317:LEU:HD22	2:HG:377:MET:HE1	1.83	0.59
1:HH:309:ARG:H	1:HH:372:THR:HG1	1.50	0.59
2:HK:253:THR:HA	2:HK:256:GLN:HG2	1.84	0.59
1:IB:39:ASP:OD2	38:2U:189:LYS:N	2.33	0.59
1:IF:211:CYS:HB3	1:IF:217:LEU:HD12	1.85	0.59
2:IK:244:PHE:HB2	2:IK:356:ASN:HD21	1.66	0.59
1:IL:314:SER:HA	1:IL:350:LYS:HB3	1.83	0.59
2:JB:301:MET:HG2	2:JB:303:THR:H	1.67	0.59
2:JD:257:THR:HG1	1:JE:397:TRP:CG	2.21	0.59
2:JH:75:VAL:HG21	2:JH:94:SER:HB3	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JM:35:THR:OG1	1:JM:37:GLN:NE2	2.33	0.59
1:JM:296:ALA:HB1	1:JM:305:PRO:HD2	1.83	0.59
2:JN:294:SER:HA	2:JN:297:GLU:OE2	2.03	0.59
2:K:394:LYS:HE3	2:K:398:MET:HE3	1.84	0.59
1:KE:320:ARG:NH2	45:2y:352:THR:OG1	2.34	0.59
1:KE:327:ASP:OD1	1:KE:328:GLU:N	2.34	0.59
1:KG:11:GLN:HE22	69:KG:500:GDP:H8	1.49	0.59
1:KI:235:GLY:HA3	1:KI:366:THR:HG21	1.84	0.59
2:KL:204:LEU:HD13	2:KL:231:ILE:HD13	1.85	0.59
1:KM:324:LYS:HZ3	2:KN:222:PRO:HG2	1.67	0.59
1:LA:36:TYR:HB2	1:LA:59:TYR:HE2	1.68	0.59
1:LA:334:GLN:HB3	22:1w:80:ARG:NH2	2.18	0.59
2:LD:173:PRO:HG3	2:LD:183:GLU:HG2	1.84	0.59
2:LD:335:ILE:HG23	2:LD:341:ILE:HD11	1.85	0.59
1:LG:10:GLY:O	1:LG:14:ASN:ND2	2.34	0.59
1:LO:226:ASN:OD1	69:LO:500:GDP:N1	2.28	0.59
2:MC:262:TYR:HD2	2:MC:265:ILE:HG13	1.67	0.59
2:MG:273:ALA:HB3	2:MG:295:VAL:HG23	1.84	0.59
1:MJ:2:ARG:N	2:MK:96:LYS:HZ1	2.00	0.59
1:MJ:42:LEU:HD21	44:2w:4:ARG:HH21	1.66	0.59
2:MK:251:ASP:H	2:MK:254:GLU:HB3	1.67	0.59
2:MK:409:VAL:O	33:2H:84:ARG:NH2	2.34	0.59
2:NA:257:THR:HA	1:NB:397:TRP:CE2	2.36	0.59
2:NK:338:LYS:HD3	2:NK:340:THR:HG22	1.84	0.59
1:O:52:ASP:OD1	1:O:62:ARG:NH2	2.36	0.59
2:OA:439:SER:HB3	1:OB:391:ARG:HD2	1.84	0.59
2:PC:11:GLN:O	2:PC:15:GLN:HG2	2.03	0.59
2:PE:212:LEU:HD21	2:PE:275:VAL:HG21	1.85	0.59
1:PF:63:ALA:O	1:PF:89:ASN:ND2	2.35	0.59
1:PJ:344:TRP:HB3	1:PJ:430:VAL:HG12	1.85	0.59
2:Q:45:GLU:OE1	41:2e:457:ARG:NH1	2.35	0.59
2:Q:317:LEU:HD23	2:Q:377:MET:HB2	1.84	0.59
1:QC:66:MET:HB3	1:QC:147:MET:HE3	1.85	0.59
1:QI:236:VAL:HG13	1:QI:237:THR:HG23	1.84	0.59
2:R:206:ASN:OD1	71:R:501:GTP:N2	2.33	0.59
2:RB:174:SER:OG	2:RB:177:VAL:O	2.17	0.59
1:RC:44:LEU:HD23	41:2b:150:LEU:HB3	1.85	0.59
1:RC:357:PRO:O	28:1X:215:ARG:NH1	2.35	0.59
2:TE:240:ALA:O	2:TE:356:ASN:ND2	2.35	0.59
2:UC:185:TYR:HE2	2:UC:398:MET:HB3	1.67	0.59
2:UE:259:LEU:HD21	2:UE:268:VAL:HG21	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VD:139:LEU:HG	1:VD:168:SER:HB2	1.82	0.59
2:VE:79:ARG:HG2	2:VE:92:LEU:HD23	1.83	0.59
1:W:62:ARG:NH1	1:W:127:CYS:SG	2.75	0.59
1:WB:33:THR:O	1:WB:58:ARG:NH1	2.35	0.59
1:WD:139:LEU:HG	1:WD:168:SER:HB2	1.83	0.59
6:0A:196:VAL:HG22	6:0A:199:ASP:HB2	1.84	0.59
7:0D:256:THR:O	7:0D:261:SER:OG	2.20	0.59
9:0O:22:LEU:HD22	9:0O:25:SER:HA	1.84	0.59
14:0c:263:GLN:O	14:0c:267:VAL:HG23	2.02	0.59
24:1J:699:ARG:NH2	24:1J:704:LEU:O	2.34	0.59
25:1O:245:ASP:OD1	25:1O:248:ARG:NH1	2.36	0.59
32:2C:219:VAL:HG21	33:2H:173:GLN:HG2	1.85	0.59
33:2I:241:GLY:O	33:2I:281:ARG:NH1	2.35	0.59
41:2e:344:HIS:O	41:2e:348:MET:HG2	2.02	0.59
60:3s:57:ARG:O	60:3s:61:ILE:HG12	2.03	0.59
1:BH:314:SER:HA	1:BH:350:LYS:HB2	1.83	0.59
2:BI:224:TYR:HA	2:BI:227:VAL:HG22	1.84	0.59
2:BM:91:GLN:H	2:BM:121:ARG:HD2	1.66	0.59
2:BM:286:LEU:O	2:BM:373:ARG:NH1	2.36	0.59
1:CA:252:LYS:HG2	2:CB:101:ASN:HB2	1.84	0.59
2:CB:88:ASN:ND2	2:DB:284:GLU:OE2	2.34	0.59
1:CE:26:ASP:O	1:CE:359:LYS:NZ	2.35	0.59
2:EG:27:GLU:OE2	2:EG:243:ARG:NH1	2.34	0.59
2:EG:392:ASP:HB3	2:EG:425:LEU:HD23	1.83	0.59
1:EH:67:ASP:OD1	1:EH:68:LEU:N	2.36	0.59
2:FA:203:MET:N	2:FA:203:MET:SD	2.76	0.59
2:FG:269:LEU:HB3	2:FG:301:MET:CE	2.30	0.59
1:HB:42:LEU:HD12	38:2U:267:ARG:HB2	1.85	0.59
2:HG:71:GLU:HB2	2:HG:98:ASP:HB3	1.84	0.59
2:HM:11:GLN:N	71:HM:501:GTP:O2B	2.23	0.59
2:JB:31:GLN:NE2	15:0f:59:GLU:OE1	2.35	0.59
2:JB:169:TYR:HB3	2:JB:204:LEU:HD11	1.83	0.59
2:JF:268:VAL:HG21	2:JF:378:ILE:HG22	1.84	0.59
1:JI:252:LYS:O	1:JI:256:ASN:ND2	2.31	0.59
2:JJ:174:SER:OG	2:JJ:177:VAL:O	2.20	0.59
1:KA:301:GLN:NE2	1:KA:377:MET:SD	2.75	0.59
1:KK:213:ARG:NH2	1:KK:297:LYS:HG2	2.11	0.59
1:KM:46:ARG:NH2	2:KN:76:ASP:OD2	2.36	0.59
2:KN:26:LEU:HD22	2:KN:363:VAL:HG12	1.84	0.59
1:LG:202:ILE:HG23	1:LG:300:MET:HB3	1.83	0.59
1:M:129:CYS:HB2	2:MA:96:LYS:HE3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ME:22:GLU:O	2:ME:26:LEU:HG	2.02	0.59
2:ME:416:GLY:O	2:ME:420:GLU:HG3	2.03	0.59
1:ML:318:ARG:O	1:ML:363:MET:HA	2.03	0.59
1:MN:10:GLY:O	1:MN:14:ASN:ND2	2.36	0.59
1:NF:304:ASP:HB3	1:NF:307:HIS:CD2	2.38	0.59
2:NG:142:GLY:HA2	2:NG:183:GLU:HG3	1.84	0.59
2:NK:11:GLN:HE21	2:NK:15:GLN:HE22	1.49	0.59
1:NL:28:HIS:C	1:NL:43:GLN:HE21	2.11	0.59
1:NL:326:VAL:HG21	1:NL:353:ILE:HD11	1.82	0.59
2:OK:279:GLU:HA	2:OK:282:TYR:CE1	2.37	0.59
1:PB:313:ALA:HB3	1:PB:349:ILE:HG12	1.83	0.59
2:PI:71:GLU:HB3	2:PI:98:ASP:HB3	1.84	0.59
2:Q:396:ASP:OD2	2:Q:422:ARG:NH2	2.32	0.59
2:QF:396:ASP:OD2	2:QF:422:ARG:NH2	2.35	0.59
2:QL:204:LEU:HD12	2:QL:231:ILE:HG12	1.84	0.59
2:RH:180:ALA:HB3	2:RH:183:GLU:HB2	1.82	0.59
2:SE:53:PHE:HB3	2:SE:61:HIS:HB3	1.84	0.59
2:SI:1:MET:N	2:SI:3:GLU:OE2	2.35	0.59
1:TD:183:TYR:HE2	1:TD:394:PHE:HB2	1.68	0.59
2:TI:11:GLN:O	2:TI:15:GLN:HG2	2.02	0.59
2:UA:33:ASP:O	2:UA:60:LYS:NZ	2.34	0.59
1:UB:45:GLU:HG2	1:UB:46:ARG:HD2	1.83	0.59
1:UB:293:MET:HE1	1:UB:367:PHE:HB2	1.83	0.59
1:UJ:322:SER:HA	2:UK:223:SER:HB2	1.83	0.59
1:VF:11:GLN:HA	1:VF:72:THR:HG21	1.84	0.59
2:WE:142:GLY:HA2	2:WE:183:GLU:HG3	1.83	0.59
2:WI:177:VAL:N	2:WI:207:GLU:OE2	2.28	0.59
3:XB:81:LYS:HB3	3:XB:161:ARG:HB2	1.84	0.59
8:0G:182:GLU:HA	8:0G:185:ARG:HG2	1.85	0.59
23:1F:383:ASN:OD1	23:1F:384:ALA:N	2.35	0.59
24:1J:95:LEU:HB2	24:1J:122:PHE:HB3	1.84	0.59
24:1K:676:GLU:O	24:1K:680:ILE:HG12	2.03	0.59
27:1S:512:VAL:HG21	27:1S:571:ILE:HG21	1.83	0.59
31:1q:252:GLU:CD	22:1w:240:LEU:HG	2.28	0.59
39:2X:153:ASN:OD1	51:X1:197:ASN:ND2	2.35	0.59
47:3D:406:VAL:HG22	47:3D:412:VAL:HG22	1.85	0.59
57:3f:26:ARG:O	57:3f:30:ARG:HG2	2.02	0.59
1:AH:337:ASN:ND2	5:XP:108:GLY:O	2.32	0.59
2:AI:298:PRO:HA	2:AI:301:MET:HG2	1.83	0.59
1:AN:10:GLY:O	1:AN:14:ASN:ND2	2.35	0.59
2:BC:251:ASP:H	2:BC:254:GLU:HB3	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BH:252:LYS:HZ1	2:BI:101:ASN:HB2	1.65	0.59
1:BL:173:PRO:HA	1:BL:176:SER:HB2	1.85	0.59
2:C:260:VAL:HB	1:CA:397:TRP:HH2	1.66	0.59
2:C:265:ILE:HG22	2:C:380:ASN:HD21	1.68	0.59
1:CE:318:ARG:HB3	1:CE:357:PRO:HA	1.84	0.59
2:CF:215:ARG:NH2	2:CF:299:ALA:O	2.35	0.59
1:EJ:87:PRO:HD3	1:FJ:281:TYR:CD2	2.38	0.59
2:EK:386:GLU:HG2	2:EK:390:ARG:HH12	1.67	0.59
1:EL:18:SER:O	1:EL:22:GLU:HG3	2.01	0.59
1:FD:167:PHE:CE2	1:FD:233:MET:HG2	2.37	0.59
1:FF:293:MET:HG3	1:FF:367:PHE:HB2	1.85	0.59
1:FH:178:THR:OG1	1:FH:181:GLU:OE2	2.13	0.59
1:FL:139:LEU:HD21	1:FL:168:SER:HB2	1.84	0.59
1:GB:232:VAL:HG21	1:GB:300:MET:HE1	1.84	0.59
1:H:266:PHE:CE1	1:H:370:ASN:HB2	2.38	0.59
2:HC:67:PHE:HB2	2:HC:92:LEU:HD12	1.83	0.59
2:HI:254:GLU:O	2:HI:258:ASN:ND2	2.35	0.59
1:IB:396:HIS:HA	1:IB:399:THR:HG22	1.85	0.59
1:IF:34:GLY:HA3	1:IF:58:ARG:HG3	1.84	0.59
1:IF:58:ARG:HD2	11:0U:17:GLN:HE22	1.67	0.59
2:IG:216:SER:HA	2:IG:280:LYS:HZ3	1.66	0.59
2:IM:178:SER:OG	2:IM:183:GLU:OE1	2.21	0.59
2:J:392:ASP:OD1	2:J:422:ARG:NH2	2.36	0.59
2:JJ:237:SER:HA	2:JJ:320:ARG:HD2	1.84	0.59
2:JJ:257:THR:HG1	1:JK:397:TRP:CG	2.20	0.59
2:JJ:326:LYS:NZ	1:JK:219:THR:HA	2.17	0.59
2:KF:3:GLU:HA	2:KF:51:THR:HA	1.85	0.59
2:KF:335:ILE:HD13	2:KF:338:LYS:HD3	1.85	0.59
2:LB:335:ILE:HG23	2:LB:341:ILE:HD11	1.85	0.59
1:LE:267:MET:HG2	1:LE:374:ILE:HD11	1.83	0.59
1:LK:43:GLN:HG2	45:2z:79:LEU:HD22	1.85	0.59
1:LK:68:LEU:HD12	1:LK:97:ALA:HB2	1.85	0.59
1:LM:232:VAL:HG11	1:LM:268:MET:HE1	1.82	0.59
1:LO:323:THR:HA	1:LO:326:VAL:HG12	1.85	0.59
2:MG:285:GLN:HE21	23:1A:60:MET:HG2	1.66	0.59
2:MG:335:ILE:HG23	2:MG:341:ILE:HD11	1.85	0.59
1:NF:376:GLU:HA	1:NF:379:ARG:HB2	1.85	0.59
2:NG:22:GLU:OE1	2:NG:83:TYR:OH	2.10	0.59
1:NJ:178:THR:HB	1:NJ:181:GLU:HG3	1.85	0.59
1:OD:55:SER:O	41:2k:165:ARG:NH2	2.36	0.59
1:OF:210:ILE:O	1:OF:214:THR:OG1	2.20	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OL:251:ARG:HE	2:OM:105:ARG:HH12	1.50	0.59
2:OM:318:MET:O	2:OM:375:VAL:HA	2.02	0.59
2:PG:264:ARG:NH1	2:PG:431:ASP:OD2	2.36	0.59
1:PJ:35:THR:OG1	41:2i:439:ARG:NH2	2.35	0.59
2:PK:270:THR:HA	2:PK:377:MET:O	2.03	0.59
2:Q:224:TYR:HA	2:Q:227:VAL:HG22	1.85	0.59
2:QJ:84:ARG:O	22:0z:253:GLN:NE2	2.30	0.59
2:QJ:259:LEU:HD21	2:QJ:268:VAL:HG11	1.83	0.59
1:QK:311:LEU:HD23	1:QK:342:ILE:HD13	1.83	0.59
1:RG:309:ARG:NH1	1:RG:426:GLN:O	2.36	0.59
1:SH:203:ASP:OD2	1:SH:302:ALA:N	2.32	0.59
1:SJ:321:MET:HE2	1:SJ:363:MET:HE3	1.84	0.59
2:SK:88:ASN:OD1	2:SK:90:GLU:HG3	2.03	0.59
2:TA:75:VAL:HG11	2:TA:94:SER:HB3	1.84	0.59
2:TE:295:VAL:HG21	2:TE:375:VAL:HG13	1.84	0.59
1:TH:66:MET:HE3	1:TH:116:VAL:HG21	1.85	0.59
2:TI:53:PHE:HB3	2:TI:61:HIS:HB3	1.84	0.59
1:TL:152:ILE:O	1:TL:195:ASN:ND2	2.34	0.59
1:U:286:VAL:HG11	1:U:325:GLU:HB3	1.85	0.59
1:UJ:167:PHE:CZ	1:UJ:233:MET:HG2	2.37	0.59
2:VA:101:ASN:HD22	2:VA:143:GLY:HA2	1.67	0.59
2:VA:212:LEU:HD21	2:VA:275:VAL:HG21	1.84	0.59
2:VK:104:ALA:HB2	2:VK:413:MET:HE3	1.84	0.59
2:WA:39:ASP:HB2	9:0L:231:ALA:HB2	1.82	0.59
1:WD:23:VAL:O	1:WD:27:GLU:HG3	2.02	0.59
1:WD:68:LEU:HD12	1:WD:97:ALA:HB2	1.84	0.59
8:0F:108:GLN:HG3	9:0L:573:ILE:HD11	1.84	0.59
9:0N:271:SER:HB3	9:0N:276:THR:H	1.68	0.59
24:1I:512:SER:O	24:1I:516:MET:HG2	2.02	0.59
24:1J:96:ARG:HG2	24:1J:184:ASP:HB2	1.84	0.59
26:1Q:9:TYR:HD2	26:1Q:23:LEU:HD13	1.66	0.59
1:AB:324:LYS:HE3	2:AC:222:PRO:HD2	1.82	0.59
2:AG:199:ASP:HB3	2:AG:256:GLN:NE2	2.18	0.59
2:AM:3:GLU:OE2	2:AM:129:CYS:HB3	2.03	0.59
1:BF:268:MET:HA	1:BF:268:MET:HE3	1.84	0.59
1:CA:324:LYS:HD2	2:CB:214:ARG:NH2	2.18	0.59
1:CE:334:GLN:HE22	1:CE:348:ASN:HB2	1.66	0.59
2:CJ:335:ILE:HG23	2:CJ:341:ILE:HD11	1.84	0.59
2:CL:260:VAL:HG23	2:CL:265:ILE:O	2.02	0.59
1:DA:207:LEU:HD13	1:DA:225:LEU:HB3	1.83	0.59
1:DC:165:MET:HG3	1:DC:250:LEU:HD21	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EE:70:LEU:HD22	2:EE:110:ILE:HG22	1.85	0.59
1:EF:200:MET:HB2	1:EF:268:MET:SD	2.43	0.59
2:EG:257:THR:HG1	1:EH:397:TRP:CG	2.20	0.59
1:GB:311:LEU:HA	1:GB:342:ILE:HD12	1.85	0.59
1:GH:60:VAL:HG21	1:GH:86:ARG:HG3	1.84	0.59
1:GL:120:CYS:SG	1:GL:121:ARG:NH2	2.75	0.59
1:GL:273:LEU:O	1:GL:292:GLN:NE2	2.33	0.59
1:GL:290:THR:HG21	1:GL:329:GLN:HB3	1.84	0.59
1:HJ:324:LYS:HB2	2:HK:222:PRO:HD2	1.83	0.59
2:IA:256:GLN:O	2:IA:260:VAL:HG12	2.02	0.59
1:IF:423:GLN:OE1	1:IF:426:GLN:NE2	2.36	0.59
1:IJ:256:ASN:HD21	2:IK:101:ASN:HD22	1.51	0.59
2:J:238:LEU:HD21	2:J:378:ILE:HD11	1.84	0.59
2:JF:167:LEU:HD13	2:JF:200:VAL:HB	1.84	0.59
2:JH:298:PRO:HA	2:JH:301:MET:HE3	1.85	0.59
1:JK:310:TYR:HD2	1:JK:341:PHE:HE2	1.49	0.59
1:KG:216:LYS:HB3	1:KG:275:SER:HB3	1.85	0.59
1:KM:10:GLY:O	1:KM:14:ASN:ND2	2.34	0.59
1:LC:193:VAL:HG11	1:LC:262:ARG:HH21	1.68	0.59
1:LG:165:MET:HE2	1:LG:167:PHE:CE1	2.37	0.59
1:LK:409:THR:HG21	48:3H:70:PHE:HE1	1.68	0.59
2:ME:199:ASP:OD1	2:ME:256:GLN:NE2	2.33	0.59
2:MG:116:ASP:OD1	2:MG:117:LEU:N	2.35	0.59
1:MJ:347:ASN:HD22	2:MK:178:SER:HG	1.45	0.59
1:N:249:ASP:OD1	1:N:252:LYS:N	2.28	0.59
1:NB:203:ASP:OD2	1:NB:205:GLU:HG2	2.03	0.59
2:NM:56:THR:HA	2:OM:285:GLN:HB2	1.84	0.59
2:OC:50:ASN:O	2:OC:64:ARG:NH1	2.35	0.59
1:OD:46:ARG:NH2	2:OE:76:ASP:OD2	2.35	0.59
2:OE:271:SER:HB3	2:OE:301:MET:HG3	1.85	0.59
2:OE:317:LEU:HD23	2:OE:377:MET:HB2	1.84	0.59
1:OL:170:ILE:HD12	1:OL:171:PRO:HD2	1.84	0.59
1:PD:345:ILE:O	1:PD:348:ASN:ND2	2.35	0.59
1:QG:309:ARG:H	1:QG:372:THR:HG1	1.48	0.59
1:QK:66:MET:SD	1:QK:116:VAL:HG11	2.43	0.59
2:R:215:ARG:NH2	2:R:299:ALA:O	2.35	0.59
1:RA:148:GLY:O	1:RA:152:ILE:HG12	2.02	0.59
1:RK:9:ALA:HB3	1:RK:137:HIS:HB3	1.84	0.59
2:RL:174:SER:OG	2:RL:177:VAL:O	2.13	0.59
2:RL:311:LYS:NZ	2:RL:344:VAL:HA	2.18	0.59
2:SE:214:ARG:NH2	59:3p:97:SER:OG	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TB:178:THR:HB	1:TB:181:GLU:HG3	1.84	0.59
2:TE:1:MET:N	2:TE:50:ASN:OD1	2.36	0.59
2:TE:326:LYS:HD3	1:TF:220:PRO:HD2	1.84	0.59
2:TK:175:PRO:HG3	2:TK:390:ARG:NH1	2.16	0.59
2:UA:169:TYR:CE2	2:UA:235:VAL:HG22	2.38	0.59
2:UC:90:GLU:HG3	2:UC:121:ARG:CZ	2.32	0.59
1:UJ:117:LEU:HD11	1:UJ:154:LYS:HD2	1.83	0.59
1:UL:237:THR:HG22	1:UL:250:LEU:HD21	1.84	0.59
1:VD:178:THR:HB	1:VD:181:GLU:HB2	1.84	0.59
1:VF:237:THR:OG1	1:VF:241:ARG:NH1	2.35	0.59
2:VG:199:ASP:HB3	2:VG:256:GLN:NE2	2.18	0.59
2:VK:68:LEU:HD13	2:VK:93:VAL:HB	1.85	0.59
2:WE:286:LEU:O	2:WE:373:ARG:NH1	2.34	0.59
1:WJ:379:ARG:O	1:WJ:383:GLU:HG2	2.03	0.59
8:0I:235:LYS:HG2	8:0I:238:LYS:HE3	1.84	0.59
9:0M:470:ASN:ND2	9:0M:510:PHE:O	2.34	0.59
9:0N:22:LEU:HD22	9:0N:25:SER:HA	1.84	0.59
16:0k:807:CYS:HA	16:0k:810:MET:HE2	1.84	0.59
20:0t:119:MET:HE3	20:0t:120:PRO:HD2	1.85	0.59
24:1H:644:GLU:O	24:1H:648:MET:HG2	2.02	0.59
25:1O:302:ILE:HG12	25:1O:313:ILE:HG12	1.83	0.59
32:2C:54:SER:OG	32:2C:55:THR:N	2.36	0.59
40:2Z:118:ARG:NH2	40:2Z:260:GLU:OE1	2.36	0.59
43:2t:173:GLN:OE1	43:2t:176:ARG:NH2	2.36	0.59
44:2v:25:HIS:HB2	44:2v:136:SER:OG	2.03	0.59
49:3Q:203:ARG:HH11	49:3Q:226:ASN:ND2	2.00	0.59
54:3a:135:HIS:HB3	54:3a:137:VAL:HG12	1.84	0.59
56:3d:181:LYS:O	56:3d:185:MET:HG2	2.01	0.59
65:5H:70:ALA:O	65:5H:73:GLN:HG3	2.03	0.59
66:5L:186:PHE:O	66:5L:190:VAL:HG22	2.03	0.59
68:5T:93:LEU:HD12	68:5T:112:ILE:HG23	1.85	0.59
2:AA:91:GLN:H	2:AA:121:ARG:HH11	1.51	0.59
2:AC:194:LEU:O	2:AC:198:THR:HB	2.03	0.59
1:BD:248:SER:HA	1:BD:252:LYS:HG3	1.85	0.59
2:BM:396:ASP:OD2	2:BM:422:ARG:NH2	2.36	0.59
1:CG:150:LEU:O	1:CG:154:LYS:HG2	2.03	0.59
1:CM:32:PRO:HG2	24:1K:352:TYR:HB3	1.85	0.59
1:CM:165:MET:HE1	1:CM:250:LEU:HD22	1.85	0.59
2:D:121:ARG:HH21	2:D:124:LYS:HD3	1.67	0.59
1:DA:51:PHE:HB3	1:DA:59:TYR:HB3	1.84	0.59
2:DD:291:ILE:O	2:DD:295:VAL:HG23	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DE:252:LYS:HD2	2:DF:100:ALA:HA	1.84	0.59
2:DF:119:LEU:HD11	2:DF:156:ARG:HB3	1.83	0.59
2:EC:68:LEU:HD21	2:EC:118:ALA:HB2	1.85	0.59
1:ED:207:LEU:HB3	1:ED:225:LEU:HG	1.83	0.59
1:FF:334:GLN:HE22	1:FF:348:ASN:HB2	1.67	0.59
2:FI:326:LYS:NZ	1:FJ:220:PRO:O	2.36	0.59
2:GG:320:ARG:HH21	2:GG:358:GLN:HG3	1.68	0.59
2:HE:416:GLY:O	2:HE:420:GLU:HG3	2.02	0.59
1:HF:337:ASN:HB3	1:HF:340:TYR:HB2	1.85	0.59
1:HJ:63:ALA:O	1:HJ:89:ASN:ND2	2.28	0.59
2:HK:1:MET:N	2:HK:3:GLU:OE2	2.35	0.59
2:HM:224:TYR:HA	2:HM:227:VAL:HG12	1.84	0.59
1:IH:236:VAL:HG13	1:IH:237:THR:HG23	1.84	0.59
1:JC:350:LYS:HZ3	2:JD:179:THR:HG22	1.67	0.59
1:JG:409:THR:HA	1:JG:412:GLU:HG2	1.83	0.59
2:JJ:345:ASP:OD1	2:JJ:346:TRP:N	2.36	0.59
1:JK:330:MET:HA	1:JK:333:VAL:HG22	1.85	0.59
2:JL:288:VAL:HG21	2:JL:327:ASP:HB3	1.83	0.59
2:K:377:MET:HE3	2:K:379:ALA:HB2	1.85	0.59
2:KF:136:MET:HG2	2:KF:169:TYR:HE1	1.67	0.59
2:KH:192:HIS:ND1	2:KH:424:ASP:OD2	2.35	0.59
2:L:197:HIS:HE1	14:0c:118:VAL:HG11	1.68	0.59
1:LI:279:GLN:HE22	23:1E:162:GLN:HB3	1.66	0.59
2:LN:49:PHE:HD2	2:LN:53:PHE:HB2	1.67	0.59
1:MD:207:LEU:HD13	1:MD:225:LEU:HB3	1.84	0.59
2:ME:237:SER:HA	2:ME:320:ARG:HD2	1.85	0.59
2:NA:271:SER:HB2	2:NA:301:MET:HA	1.84	0.59
1:NB:268:MET:HG3	1:NB:300:MET:HE3	1.84	0.59
2:NE:102:ASN:HB3	2:NE:105:ARG:HB2	1.83	0.59
1:NH:103:LYS:NZ	1:NH:401:GLU:OE2	2.36	0.59
1:NL:309:ARG:HD3	1:NL:426:GLN:HE21	1.68	0.59
2:NM:413:MET:HG3	2:NM:417:GLU:HG3	1.84	0.59
1:OD:235:GLY:HA3	1:OD:366:THR:HG21	1.85	0.59
1:OL:100:ASN:HB3	1:OL:103:LYS:HG2	1.85	0.59
1:OL:175:VAL:HG23	1:OL:205:GLU:OE2	2.01	0.59
1:P:159:TYR:HB3	1:P:162:ARG:HG3	1.85	0.59
1:PH:326:VAL:O	1:PH:330:MET:HG2	2.03	0.59
1:PH:375:GLN:OE1	1:PH:379:ARG:NH2	2.36	0.59
1:QC:252:LYS:HE3	2:QD:100:ALA:HA	1.85	0.59
2:R:81:GLY:O	2:R:84:ARG:NH1	2.32	0.59
1:RA:63:ALA:O	1:RA:89:ASN:ND2	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RC:20:PHE:HB2	1:RC:233:MET:HE3	1.84	0.59
2:RH:90:GLU:O	2:RH:91:GLN:HB2	2.03	0.59
2:RJ:309:HIS:O	57:3h:95:ASN:ND2	2.35	0.59
1:SD:245:GLN:OE1	28:1U:186:ASN:ND2	2.36	0.59
1:SD:295:ASP:OD2	1:SD:297:LYS:NZ	2.28	0.59
2:SG:177:VAL:N	2:SG:207:GLU:OE2	2.33	0.59
1:SH:10:GLY:O	1:SH:14:ASN:ND2	2.35	0.59
2:SI:260:VAL:HB	1:SJ:397:TRP:HZ2	1.68	0.59
2:TC:256:GLN:O	2:TC:260:VAL:HG12	2.02	0.59
2:TG:258:ASN:OD1	1:TH:99:ASN:ND2	2.36	0.59
1:UL:236:VAL:HG13	1:UL:237:THR:HG23	1.84	0.59
1:VB:313:ALA:HB3	1:VB:349:ILE:HG12	1.85	0.59
1:VH:381:VAL:HG13	1:VH:415:MET:HE1	1.84	0.59
2:VK:255:PHE:HB2	2:VK:259:LEU:HD23	1.85	0.59
1:WB:326:VAL:HG21	1:WB:353:ILE:HD11	1.85	0.59
1:WD:276:ARG:HH11	13:0Y:257:LEU:HD23	1.66	0.59
1:WH:100:ASN:HB3	1:WH:103:LYS:HB3	1.85	0.59
2:WI:2:ARG:NH1	2:WI:242:LEU:O	2.36	0.59
2:WM:5:ILE:HD13	2:WM:64:ARG:HB3	1.84	0.59
3:XC:90:GLU:HB3	3:XC:155:GLN:HB3	1.83	0.59
4:XQ:289:GLY:H	4:XQ:292:ALA:HB2	1.67	0.59
12:0W:92:CYS:SG	12:0W:93:SER:N	2.76	0.59
16:0k:951:LEU:O	16:0k:955:ALA:HB2	2.01	0.59
21:0w:356:THR:HA	21:0w:359:VAL:HG12	1.84	0.59
31:1q:109:ASN:HB2	31:1q:112:ASN:HD22	1.67	0.59
31:1q:220:GLN:O	31:1q:224:ILE:HG12	2.03	0.59
22:1w:260:ARG:HD3	41:2k:193:SER:O	2.03	0.59
22:1x:196:VAL:O	22:1x:200:VAL:HG23	2.03	0.59
37:2S:143:ARG:NH2	54:3Z:313:ASP:OD1	2.35	0.59
41:2e:413:GLN:NE2	41:2e:414:ASP:OD1	2.36	0.59
66:5K:32:ARG:NH1	66:5K:37:MET:O	2.35	0.59
2:AC:105:ARG:HG3	2:AC:411:GLU:HG3	1.84	0.59
1:AF:324:LYS:HZ3	2:AG:210:TYR:HB3	1.66	0.59
2:AI:98:ASP:O	2:AI:105:ARG:NH1	2.36	0.59
1:AJ:413:SER:HA	4:XQ:204:LYS:NZ	2.18	0.59
2:CD:241:SER:HA	2:CD:356:ASN:HD21	1.67	0.59
2:CD:317:LEU:HD23	2:CD:377:MET:HB2	1.83	0.59
2:CJ:43:GLY:HA2	24:1J:254:VAL:HG21	1.84	0.59
1:CK:371:ASN:OD1	1:CK:372:THR:N	2.36	0.59
2:D:75:VAL:HG11	2:D:94:SER:HB3	1.84	0.59
2:DB:241:SER:OG	2:DB:250:VAL:O	2.19	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DF:271:SER:HB3	2:DF:301:MET:HG3	1.85	0.59
2:EC:1:MET:HG3	2:EC:2:ARG:HG3	1.84	0.59
1:ED:8:GLN:HB3	1:ED:14:ASN:HA	1.85	0.59
1:ED:247:ASN:ND2	2:EE:73:THR:OG1	2.35	0.59
1:ED:347:ASN:ND2	2:EE:178:SER:OG	2.35	0.59
1:EL:186:THR:HG21	1:EL:385:PHE:CG	2.38	0.59
1:FB:326:VAL:O	1:FB:330:MET:HG2	2.03	0.59
2:FC:121:ARG:CZ	2:FC:124:LYS:HD2	2.32	0.59
2:FC:416:GLY:O	2:FC:420:GLU:HG3	2.02	0.59
1:FF:113:ILE:HG13	1:FF:117:LEU:HD23	1.83	0.59
1:FF:237:THR:HG22	1:FF:250:LEU:HD11	1.85	0.59
2:FK:129:CYS:SG	2:FK:130:THR:N	2.75	0.59
2:HG:269:LEU:HB3	2:HG:301:MET:CE	2.33	0.59
1:I:262:ARG:NH2	1:I:414:ASN:OD1	2.34	0.59
1:IH:150:LEU:O	1:IH:154:LYS:HG2	2.03	0.59
2:IM:187:CYS:O	2:IM:191:THR:HG23	2.02	0.59
2:J:174:SER:HB2	2:J:207:GLU:OE1	2.03	0.59
2:JD:186:ASN:OD1	2:JD:408:TYR:OH	2.21	0.59
2:JJ:259:LEU:HD21	2:JJ:268:VAL:HG21	1.85	0.59
2:JL:217:LEU:HD12	2:JL:367:ASP:HB2	1.84	0.59
2:JN:51:THR:HG21	2:JN:243:ARG:HG2	1.84	0.59
2:KH:224:TYR:HA	2:KH:227:VAL:HG22	1.84	0.59
1:KM:121:ARG:NH2	1:KM:158:GLU:OE2	2.36	0.59
1:LC:37:GLN:HE21	29:1k:175:ALA:HA	1.68	0.59
2:LD:105:ARG:NH2	2:LD:110:ILE:HD11	2.18	0.59
2:LD:184:PRO:HA	2:LD:391:ILE:HD11	1.85	0.59
2:LH:42:ILE:HG12	40:2Z:327:PRO:HD3	1.84	0.59
2:LJ:209:ILE:HG12	2:LJ:302:LEU:HD22	1.85	0.59
2:LL:172:TYR:CD1	2:LL:203:MET:HG3	2.38	0.59
1:LO:107:THR:HG22	33:2I:256:HIS:HD2	1.67	0.59
1:M:274:THR:OG1	1:M:279:GLN:OE1	2.19	0.59
2:MA:187:CYS:SG	2:MA:391:ILE:HD11	2.43	0.59
2:MK:245:ASP:HA	2:MK:249:ASN:HD21	1.66	0.59
1:NB:67:ASP:OD1	1:NB:69:GLU:N	2.32	0.59
1:NB:404:ASP:OD1	1:NB:405:GLU:N	2.35	0.59
1:ND:87:PRO:HD3	1:OD:281:TYR:HD2	1.65	0.59
1:NF:56:GLY:HA2	41:2o:332:ARG:HH12	1.68	0.59
2:NG:213:THR:HG22	2:NG:217:LEU:HD12	1.84	0.59
2:NK:7:ILE:HD11	2:NK:135:PHE:HD2	1.67	0.59
2:OA:195:LEU:HD11	2:OA:428:LEU:HD13	1.83	0.59
2:OI:180:ALA:HB3	2:OI:183:GLU:HB2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PD:165:MET:HE3	1:PD:250:LEU:HD13	1.85	0.59
1:PD:268:MET:N	1:PD:299:MET:HE1	2.18	0.59
2:PE:55:GLU:O	2:QD:285:GLN:NE2	2.35	0.59
2:PK:326:LYS:HD3	1:PL:208:TYR:CD1	2.38	0.59
1:QA:9:ALA:HB2	1:QA:66:MET:HE3	1.85	0.59
2:QB:322:ASP:OD2	2:QB:373:ARG:NE	2.32	0.59
2:RD:326:LYS:HD2	1:RE:220:PRO:HD2	1.84	0.59
2:RD:408:TYR:HB3	2:RD:413:MET:HE2	1.85	0.59
2:RJ:383:ALA:O	2:RJ:386:GLU:HG2	2.03	0.59
1:RK:35:THR:HG23	1:RK:37:GLN:NE2	2.17	0.59
1:SH:322:SER:OG	2:SI:222:PRO:O	2.20	0.59
1:TF:269:GLY:HA3	1:TF:367:PHE:HB3	1.83	0.59
1:TH:396:HIS:HB3	57:3g:191:SER:HB2	1.84	0.59
1:TL:221:THR:HG22	1:TL:222:PHE:H	1.68	0.59
1:U:46:ARG:NH2	2:UA:76:ASP:OD2	2.35	0.59
2:UA:324:VAL:HG12	2:UA:326:LYS:HG2	1.85	0.59
2:UE:248:LEU:HB2	2:UE:355:ILE:H	1.68	0.59
1:UJ:289:LEU:HD11	1:UJ:363:MET:HG2	1.85	0.59
2:UK:241:SER:HA	2:UK:356:ASN:HD21	1.68	0.59
2:UK:336:LYS:HE3	2:UK:351:PHE:HE2	1.67	0.59
2:VK:259:LEU:HD21	2:VK:316:CYS:HB2	1.85	0.59
1:W:282:ARG:HH21	1:W:288:GLU:HB3	1.68	0.59
1:WB:18:SER:O	1:WB:22:GLU:HG3	2.03	0.59
2:WC:1:MET:SD	1:WD:94:GLN:NE2	2.75	0.59
1:WJ:272:PRO:HD3	1:WJ:364:SER:HA	1.84	0.59
2:WM:1:MET:N	2:WM:3:GLU:OE2	2.35	0.59
5:XN:82:ILE:HG22	5:XN:84:HIS:H	1.67	0.59
18:0p:190:GLY:N	18:0p:217:GLU:OE2	2.35	0.59
23:1A:321:LEU:HB2	44:2v:413:VAL:HG21	1.84	0.59
24:1K:239:ALA:HA	24:1K:242:ARG:HH12	1.68	0.59
24:1K:699:ARG:NH2	24:1K:704:LEU:O	2.36	0.59
26:1Q:545:ILE:HA	26:1Q:606:MET:HE1	1.84	0.59
59:3o:270:ARG:HG2	59:3o:274:GLN:NE2	2.15	0.59
65:5H:88:MET:HE2	65:5H:88:MET:HA	1.84	0.59
1:A:120:CYS:HB2	1:A:133:PHE:HE2	1.68	0.59
1:AN:66:MET:SD	1:AN:116:VAL:HG11	2.42	0.59
2:BA:117:LEU:O	2:BA:121:ARG:HG2	2.03	0.59
2:BA:396:ASP:OD2	2:BA:422:ARG:NH2	2.36	0.59
1:BB:372:THR:HG21	1:BB:426:GLN:HB2	1.85	0.59
2:CB:177:VAL:N	2:CB:207:GLU:OE2	2.27	0.59
2:CB:372:GLN:OE1	2:CB:373:ARG:NH2	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CC:202:ILE:HD12	1:CC:229:VAL:HG22	1.84	0.59
2:CF:215:ARG:NH1	2:CF:216:SER:HB2	2.18	0.59
1:CK:3:GLU:HA	1:CK:49:VAL:HG23	1.84	0.59
1:CK:227:HIS:HE1	24:1J:326:SER:H	1.51	0.59
1:DI:267:MET:HE3	1:DI:371:ASN:HB3	1.84	0.59
1:EJ:10:GLY:O	1:EJ:14:ASN:ND2	2.34	0.59
1:FD:323:THR:HA	1:FD:326:VAL:HG12	1.85	0.59
2:FE:115:VAL:HG21	2:FE:152:LEU:HG	1.85	0.59
2:FG:116:ASP:OD1	59:4O:257:TYR:N	2.27	0.59
1:FJ:293:MET:HE2	1:FJ:293:MET:HA	1.84	0.59
2:GA:247:ALA:HB3	2:GA:355:ILE:HD11	1.84	0.59
2:GA:316:CYS:HB3	2:GA:378:ILE:HG23	1.84	0.59
2:GI:335:ILE:HG23	2:GI:341:ILE:HD11	1.84	0.59
2:HE:75:VAL:HG21	2:HE:94:SER:HB2	1.85	0.59
2:HE:123:ARG:NH2	2:IE:297:GLU:OE1	2.36	0.59
1:HL:238:CYS:HB2	1:HL:318:ARG:HH11	1.68	0.59
2:IA:141:VAL:HG11	2:IA:194:LEU:HD11	1.85	0.59
2:IA:177:VAL:N	2:IA:207:GLU:OE2	2.36	0.59
2:IC:258:ASN:HB2	1:ID:179:VAL:HG22	1.85	0.59
1:ID:51:PHE:HB3	1:ID:59:TYR:HB3	1.84	0.59
2:IE:116:ASP:OD1	2:IE:117:LEU:N	2.36	0.59
2:IK:259:LEU:HD13	2:IK:268:VAL:HG11	1.85	0.59
2:JB:187:CYS:O	2:JB:191:THR:HG23	2.02	0.59
2:K:215:ARG:HH12	2:K:299:ALA:HB1	1.68	0.59
2:KD:174:SER:OG	2:KD:304:LYS:NZ	2.30	0.59
1:KE:324:LYS:HA	1:KE:327:ASP:OD1	2.02	0.59
2:KJ:71:GLU:HB3	2:KJ:98:ASP:HB3	1.83	0.59
1:KK:5:VAL:HG23	1:KK:62:ARG:HG2	1.84	0.59
1:KK:204:ASN:OD1	69:KK:500:GDP:O2'	2.19	0.59
1:KK:208:TYR:CE2	1:KK:225:LEU:HD11	2.38	0.59
1:KM:125:GLU:OE1	1:LM:291:GLN:NE2	2.36	0.59
2:L:274:PRO:HG2	2:L:371:VAL:HG11	1.85	0.59
2:LB:184:PRO:HA	2:LB:391:ILE:HD11	1.85	0.59
2:LJ:288:VAL:HB	2:LJ:327:ASP:HB3	1.84	0.59
2:LN:9:ILE:HD11	2:LN:153:LEU:HD23	1.84	0.59
1:MB:263:LEU:HD21	1:MB:421:GLU:OE1	2.02	0.59
1:MN:236:VAL:HG23	1:MN:237:THR:HG23	1.83	0.59
2:NM:185:TYR:HE1	2:NM:398:MET:HB3	1.68	0.59
2:OA:145:THR:OG1	71:OA:501:GTP:O2B	2.21	0.59
1:OJ:371:ASN:OD1	1:OJ:373:CYS:N	2.36	0.59
2:OK:91:GLN:OE1	2:OK:124:LYS:NZ	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OK:241:SER:OG	2:OK:250:VAL:O	2.17	0.59
1:P:313:ALA:HB3	1:P:349:ILE:HD13	1.84	0.59
1:PB:168:SER:O	1:PB:201:CYS:HA	2.03	0.59
2:PE:250:VAL:HG11	2:PE:318:MET:HE1	1.84	0.59
1:QA:267:MET:SD	1:QA:371:ASN:ND2	2.76	0.59
1:QA:347:ASN:ND2	2:QB:178:SER:O	2.31	0.59
2:QD:64:ARG:NH1	2:QD:129:CYS:SG	2.76	0.59
1:QE:246:LEU:HD11	71:QF:501:GTP:H5"	1.84	0.59
1:QG:117:LEU:HD21	1:QG:154:LYS:HB3	1.85	0.59
2:QH:275:VAL:HG23	2:QH:368:LEU:HD21	1.85	0.59
1:QI:10:GLY:O	1:QI:14:ASN:ND2	2.35	0.59
1:QK:213:ARG:HH11	1:QK:297:LYS:HE3	1.67	0.59
2:RD:76:ASP:OD1	2:RD:77:GLU:N	2.36	0.59
2:RD:318:MET:O	2:RD:375:VAL:HA	2.03	0.59
2:RL:18:ASN:HD22	28:1Y:146:LYS:HD2	1.68	0.59
1:SD:301:GLN:NE2	1:SD:303:ALA:O	2.35	0.59
2:SE:253:THR:HA	2:SE:256:GLN:HG2	1.85	0.59
1:SH:232:VAL:HG11	1:SH:268:MET:SD	2.42	0.59
1:SJ:134:GLN:HA	1:SJ:165:MET:HB3	1.84	0.59
1:T:226:ASN:HA	1:T:229:VAL:HG22	1.85	0.59
1:T:347:ASN:HD22	2:TA:178:SER:HB3	1.67	0.59
2:TA:195:LEU:HD21	2:TA:264:ARG:HE	1.68	0.59
1:TD:180:VAL:HG13	1:TD:183:TYR:HD2	1.66	0.59
1:TD:211:CYS:HB3	1:TD:217:LEU:HD12	1.84	0.59
1:TF:235:GLY:HA3	1:TF:366:THR:HG21	1.85	0.59
1:TH:132:GLY:HA3	1:TH:163:ILE:HG22	1.84	0.59
1:TL:103:LYS:HG3	1:TL:401:GLU:HG3	1.85	0.59
2:UK:174:SER:OG	2:UK:207:GLU:OE1	2.06	0.59
1:V:341:PHE:HB3	1:V:348:ASN:HD22	1.68	0.59
1:VD:313:ALA:HB3	1:VD:349:ILE:HD13	1.85	0.59
1:VH:156:ARG:NH2	1:VH:197:ASP:OD1	2.35	0.59
2:VM:340:THR:HG23	2:VM:341:ILE:HG23	1.85	0.59
1:WL:236:VAL:HG23	1:WL:237:THR:HG23	1.84	0.59
1:WL:324:LYS:HZ1	2:WM:222:PRO:HG2	1.66	0.59
9:0N:388:GLY:HA2	9:0N:425:VAL:HG23	1.85	0.59
9:0O:247:ILE:HA	9:0O:262:SER:HA	1.85	0.59
29:1l:6:LYS:HD2	29:1l:33:ALA:HB1	1.84	0.59
33:2H:249:CYS:O	33:2H:253:MET:HG3	2.03	0.59
37:2S:151:SER:HA	37:2S:159:TRP:HE1	1.68	0.59
38:2U:164:ILE:HD12	38:2U:165:PRO:HD2	1.85	0.59
40:2Z:130:LEU:HD21	40:2Z:270:TRP:CE3	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:2w:292:ASP:HB3	44:2w:295:VAL:HG12	1.85	0.59
48:3H:110:GLU:HG2	48:3H:114:ARG:HH12	1.67	0.59
49:3Q:219:VAL:HG21	49:3Q:263:VAL:HG21	1.84	0.59
68:5S:112:ILE:O	68:5S:116:ARG:N	2.33	0.59
2:AA:264:ARG:HH11	3:X:117:PHE:HB2	1.68	0.58
2:AC:288:VAL:HB	2:AC:327:ASP:HB3	1.85	0.58
2:AM:425:LEU:O	2:AM:429:GLU:HG3	2.02	0.58
1:AN:410:GLU:OE1	4:XR:242:GLN:NE2	2.36	0.58
1:BL:235:GLY:HA3	1:BL:366:THR:HG21	1.85	0.58
2:BM:328:VAL:O	2:BM:332:ILE:HG12	2.03	0.58
2:C:2:ARG:HH11	1:CA:70:PRO:HG2	1.68	0.58
2:CD:408:TYR:HB3	2:CD:413:MET:SD	2.43	0.58
1:CE:61:PRO:HD3	1:CE:84:LEU:HG	1.84	0.58
1:CI:215:LEU:HD21	1:CI:273:LEU:HD23	1.85	0.58
2:CJ:221:ARG:O	16:0l:687:ARG:NH2	2.28	0.58
1:DI:324:LYS:HE3	2:DJ:222:PRO:HB2	1.84	0.58
1:DM:292:GLN:HA	1:DM:295:ASP:OD2	2.03	0.58
1:DM:320:ARG:HH21	27:1T:848:THR:HG22	1.68	0.58
2:EA:396:ASP:OD2	2:EA:422:ARG:NH2	2.33	0.58
2:EI:205:ASP:OD1	2:EI:303:THR:HA	2.03	0.58
2:FA:326:LYS:HD2	1:FB:212:PHE:CZ	2.37	0.58
2:FC:174:SER:OG	2:FC:177:VAL:O	2.19	0.58
1:HD:40:SER:OG	1:HD:43:GLN:NE2	2.28	0.58
2:HK:278:ALA:O	17:0n:152:ARG:NH2	2.35	0.58
2:IA:399:TYR:O	2:IA:402:ARG:NH1	2.35	0.58
1:ID:45:GLU:O	19:0r:72:LEU:HD23	2.02	0.58
2:IE:271:SER:HB3	2:IE:301:MET:HA	1.84	0.58
2:II:319:TYR:HB3	2:II:323:VAL:HG21	1.85	0.58
2:IK:116:ASP:OD1	2:IK:117:LEU:N	2.36	0.58
2:IK:180:ALA:HB3	2:IK:183:GLU:HG3	1.85	0.58
2:J:76:ASP:OD1	2:J:77:GLU:N	2.36	0.58
2:J:347:CYS:HB3	1:JA:388:MET:HE1	1.84	0.58
1:JG:178:THR:HB	1:JG:181:GLU:HG3	1.84	0.58
2:K:429:GLU:HA	2:K:432:TYR:HD2	1.68	0.58
1:KE:322:SER:HB3	2:KF:221:ARG:NE	2.18	0.58
2:KL:400:SER:OG	2:KL:401:LYS:NZ	2.36	0.58
2:LJ:163:LYS:HE3	33:2H:212:ARG:HB3	1.85	0.58
1:LK:383:GLU:O	1:LK:386:THR:OG1	2.17	0.58
1:LM:2:ARG:HB3	1:LM:131:GLN:HB2	1.85	0.58
2:LN:90:GLU:OE1	2:MM:280:LYS:NZ	2.29	0.58
2:MA:247:ALA:HB1	1:MB:222:PHE:HD2	1.66	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MD:144:GLY:N	69:MD:500:GDP:O2B	2.32	0.58
2:MG:259:LEU:HD21	2:MG:268:VAL:HG11	1.85	0.58
1:ML:320:ARG:NH2	45:2z:149:GLN:O	2.36	0.58
1:MN:132:GLY:HA2	1:MN:162:ARG:HB3	1.85	0.58
2:NI:195:LEU:HA	2:NI:266:HIS:HE1	1.67	0.58
1:OJ:99:ASN:ND2	1:OJ:141:GLY:HA2	2.17	0.58
2:OM:27:GLU:OE1	2:OM:243:ARG:NH2	2.35	0.58
2:OM:51:THR:HG21	2:OM:243:ARG:HG2	1.85	0.58
2:PC:211:ASP:OD1	2:PC:212:LEU:N	2.35	0.58
1:PD:404:ASP:OD1	1:PD:405:GLU:N	2.35	0.58
1:PF:19:LYS:HE3	1:PF:223:GLY:HA2	1.84	0.58
1:PH:246:LEU:HA	2:PI:11:GLN:HE22	1.68	0.58
2:QJ:51:THR:HG21	2:QJ:243:ARG:HG2	1.84	0.58
1:RC:10:GLY:O	1:RC:14:ASN:ND2	2.35	0.58
1:RC:321:MET:HE2	1:RC:326:VAL:HB	1.85	0.58
2:RD:55:GLU:OE2	41:2c:464:ARG:NH1	2.30	0.58
2:RF:364:PRO:O	28:1Y:50:LYS:NZ	2.36	0.58
2:RH:3:GLU:HA	2:RH:51:THR:HA	1.85	0.58
1:RI:345:ILE:HG23	2:RJ:398:MET:HE2	1.84	0.58
2:RJ:261:PRO:HB2	1:RK:393:ALA:HB1	1.84	0.58
2:RJ:265:ILE:HG22	2:RJ:380:ASN:ND2	2.17	0.58
1:S:237:THR:HG22	1:S:250:LEU:HD21	1.84	0.58
2:SC:259:LEU:HD21	2:SC:268:VAL:HG11	1.84	0.58
2:SE:317:LEU:HD23	2:SE:377:MET:HB2	1.85	0.58
2:TC:286:LEU:O	2:TC:373:ARG:NH1	2.33	0.58
2:TI:170:THR:HG21	2:TI:194:LEU:HD21	1.84	0.58
1:TL:35:THR:HG23	1:TL:37:GLN:NE2	2.18	0.58
1:UD:371:ASN:ND2	1:UD:373:CYS:SG	2.76	0.58
2:UK:248:LEU:HB2	2:UK:354:GLY:HA2	1.84	0.58
1:VJ:202:ILE:HD12	1:VJ:300:MET:HE2	1.84	0.58
2:VM:319:TYR:HB3	2:VM:323:VAL:HG21	1.85	0.58
1:WB:173:PRO:HA	1:WB:176:SER:HB2	1.85	0.58
1:WF:293:MET:HE1	1:WF:330:MET:HE1	1.85	0.58
2:WK:71:GLU:HB3	2:WK:98:ASP:HB3	1.84	0.58
2:WM:295:VAL:HG21	2:WM:375:VAL:HG13	1.84	0.58
3:XF:73:LEU:HB2	3:XF:167:PHE:HB3	1.85	0.58
5:XN:213:LYS:HD3	5:XN:251:GLN:HB3	1.85	0.58
4:XO:174:MET:O	4:XO:178:ARG:HG3	2.02	0.58
8:0G:391:LYS:NZ	30:1o:66:GLU:OE2	2.31	0.58
23:1A:49:ALA:O	23:1A:53:LYS:HG3	2.02	0.58
25:1O:677:THR:HA	25:1O:680:GLU:HG2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1Q:639:SER:HB2	26:1Q:642:MET:HG2	1.84	0.58
32:2C:243:SER:OG	32:2C:244:GLU:OE1	2.21	0.58
45:2z:69:TYR:HB3	45:2z:72:GLN:HG3	1.85	0.58
49:3Q:231:CYS:HB3	49:3Q:246:ILE:HD13	1.83	0.58
57:3i:65:LEU:HD13	57:3i:68:ARG:HE	1.68	0.58
1:A:149:THR:O	1:A:152:ILE:HG22	2.03	0.58
1:AD:311:LEU:HA	1:AD:342:ILE:HD12	1.85	0.58
2:BE:82:THR:HG21	16:0k:313:ALA:HB2	1.84	0.58
1:BF:256:ASN:OD1	2:BG:181:VAL:HG22	2.04	0.58
1:BJ:324:LYS:HG2	2:BK:222:PRO:HD2	1.84	0.58
2:C:50:ASN:O	2:C:64:ARG:NH1	2.35	0.58
2:C:208:ALA:HA	2:C:304:LYS:HE3	1.86	0.58
2:DB:116:ASP:OD1	2:DB:117:LEU:N	2.35	0.58
2:EC:84:ARG:HD2	26:1Q:740:LEU:HD12	1.84	0.58
1:ED:272:PRO:HG3	1:ED:284:LEU:HD22	1.85	0.58
1:FB:112:LEU:HD22	1:FB:147:MET:HE1	1.85	0.58
1:FF:344:TRP:CG	2:FG:401:LYS:HZ1	2.22	0.58
2:FG:70:LEU:HB3	2:FG:98:ASP:HA	1.85	0.58
2:GE:406:HIS:HA	2:GE:409:VAL:HG12	1.84	0.58
2:GI:387:VAL:HG12	2:GI:390:ARG:HH22	1.68	0.58
2:HA:11:GLN:HG2	2:HA:74:VAL:HG11	1.85	0.58
2:HC:213:THR:HA	2:HC:217:LEU:HD23	1.84	0.58
1:HF:133:PHE:HB2	1:HF:164:MET:HG2	1.83	0.58
2:HG:50:ASN:O	2:HG:64:ARG:NH1	2.36	0.58
1:HH:34:GLY:HA3	1:HH:58:ARG:HG3	1.85	0.58
1:ID:284:LEU:HB3	1:ID:362:LYS:HE3	1.84	0.58
1:ID:289:LEU:HD11	1:ID:363:MET:HG3	1.84	0.58
1:IJ:45:GLU:HG2	49:3Q:14:LEU:HD13	1.85	0.58
1:IJ:253:LEU:HD21	1:IJ:316:LEU:HD11	1.85	0.58
1:IL:66:MET:SD	1:IL:116:VAL:HG11	2.42	0.58
1:JI:362:LYS:HD2	52:3U:149:LEU:HD11	1.85	0.58
1:JM:151:LEU:HG	1:JM:155:LEU:HD13	1.85	0.58
1:KE:36:TYR:OH	1:KE:40:SER:O	2.20	0.58
2:KH:195:LEU:HD22	2:KH:428:LEU:HD22	1.84	0.58
2:KH:229:ARG:HH21	19:0r:240:THR:HG22	1.68	0.58
2:L:237:SER:HA	2:L:320:ARG:HD2	1.85	0.58
1:LO:167:PHE:HZ	1:LO:236:VAL:HG11	1.67	0.58
1:LO:187:LEU:HA	1:LO:190:HIS:CD2	2.38	0.58
2:MC:167:LEU:HD21	2:MC:255:PHE:HZ	1.68	0.58
2:MG:3:GLU:HA	2:MG:51:THR:HA	1.85	0.58
2:MK:33:ASP:HA	2:MK:85:GLN:HE22	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MK:338:LYS:HZ2	2:MK:341:ILE:HG12	1.67	0.58
1:MN:160:PRO:HB2	4:XR:85:ARG:HG3	1.85	0.58
1:O:355:ASP:OD2	28:1g:144:THR:OG1	2.14	0.58
2:OC:392:ASP:HB3	2:OC:425:LEU:HD23	1.85	0.58
2:OG:319:TYR:HB3	2:OG:323:VAL:HG21	1.85	0.58
2:OI:329:ASN:HD22	1:OJ:175:VAL:HG22	1.67	0.58
2:OM:426:ALA:HB1	2:OM:430:LYS:NZ	2.18	0.58
1:QG:329:GLN:NE2	59:4a:285:ALA:O	2.36	0.58
2:R:53:PHE:HB3	2:R:61:HIS:HB3	1.85	0.58
2:RB:188:VAL:HG12	2:RB:421:ALA:HB1	1.86	0.58
2:SE:319:TYR:HB3	2:SE:323:VAL:HG21	1.85	0.58
1:SH:340:TYR:OH	59:3p:190:SER:O	2.20	0.58
2:SK:301:MET:HE1	2:SK:307:PRO:HG3	1.84	0.58
2:TA:237:SER:HA	2:TA:320:ARG:HD2	1.85	0.58
2:TE:270:THR:HG23	2:TE:302:LEU:HB2	1.84	0.58
2:TG:335:ILE:HG23	2:TG:341:ILE:HD11	1.85	0.58
1:U:204:ASN:HA	1:U:207:LEU:HD12	1.85	0.58
1:UD:172:SER:OG	1:UD:205:GLU:OE2	2.18	0.58
2:UE:167:LEU:HD11	2:UE:255:PHE:HZ	1.67	0.58
2:UE:212:LEU:HD21	2:UE:275:VAL:HG11	1.85	0.58
2:UG:254:GLU:O	2:UG:258:ASN:ND2	2.35	0.58
1:UJ:165:MET:HE2	1:UJ:167:PHE:CZ	2.39	0.58
2:VA:258:ASN:HD21	1:VB:99:ASN:HD22	1.49	0.58
1:VF:214:THR:OG1	1:VF:297:LYS:NZ	2.34	0.58
1:VJ:23:VAL:O	1:VJ:27:GLU:HG3	2.03	0.58
1:WD:159:TYR:HB3	1:WD:162:ARG:HG3	1.84	0.58
2:WG:319:TYR:HB3	2:WG:323:VAL:HG21	1.84	0.58
1:WH:221:THR:HG23	1:WH:223:GLY:H	1.68	0.58
1:WJ:311:LEU:HA	1:WJ:342:ILE:HD12	1.86	0.58
2:WK:275:VAL:HG23	2:WK:368:LEU:HD21	1.84	0.58
1:WL:293:MET:HG3	1:WL:367:PHE:HB2	1.84	0.58
5:XP:257:ASN:HB2	5:XP:307:VAL:HG22	1.85	0.58
4:XR:229:ASP:HB2	4:XR:232:ILE:HG12	1.85	0.58
8:0F:145:GLU:HA	8:0F:148:ARG:HD2	1.86	0.58
9:0M:129:PRO:O	9:0M:132:ASN:ND2	2.35	0.58
9:0N:389:ARG:HD3	9:0N:405:ALA:HA	1.85	0.58
9:0O:81:VAL:HG23	9:0O:110:LYS:HG2	1.84	0.58
19:0r:70:ARG:HH22	19:0r:83:GLU:CD	2.11	0.58
21:0x:438:LYS:NZ	21:0x:442:GLU:OE2	2.33	0.58
23:1E:235:ASN:HD22	45:2y:311:ASP:HA	1.67	0.58
37:2S:179:ASN:ND2	37:2S:204:ARG:O	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:2c:304:GLN:HG3	41:2c:308:ARG:HH12	1.68	0.58
41:2o:345:ARG:HA	41:2o:348:MET:HE2	1.84	0.58
57:3g:109:ARG:NH1	57:3g:114:ASP:OD2	2.36	0.58
66:5K:19:ASP:HB2	66:5K:268:ASN:HB3	1.84	0.58
1:AD:331:LEU:HD11	2:AE:176:GLN:HB3	1.85	0.58
2:AE:45:GLU:HB3	2:AE:48:ALA:HB2	1.84	0.58
1:AF:274:THR:OG1	1:AF:278:SER:OG	2.21	0.58
1:AH:52:ASP:OD1	1:AH:62:ARG:NH2	2.36	0.58
1:AN:320:ARG:HD3	54:4Y:245:THR:HG23	1.85	0.58
1:AN:413:SER:HB3	4:XR:204:LYS:HE2	1.84	0.58
1:BB:46:ARG:NH2	2:BC:73:THR:HA	2.18	0.58
1:BF:74:ASP:HA	26:1Q:212:HIS:HE1	1.68	0.58
2:C:172:TYR:CD2	2:C:203:MET:HG3	2.39	0.58
2:CB:295:VAL:HG21	2:CB:375:VAL:HG13	1.84	0.58
2:DB:419:SER:O	2:DB:423:GLU:HG3	2.03	0.58
2:DF:67:PHE:HB2	2:DF:92:LEU:HD12	1.85	0.58
1:DI:311:LEU:HA	1:DI:342:ILE:HD12	1.83	0.58
1:EF:112:LEU:HD22	1:EF:147:MET:HE1	1.84	0.58
2:EG:346:TRP:CD1	1:EH:391:ARG:HG3	2.38	0.58
2:FE:71:GLU:HB3	2:FE:98:ASP:HB3	1.85	0.58
2:FK:116:ASP:OD1	2:FK:117:LEU:N	2.36	0.58
2:GC:51:THR:HG23	2:GC:52:PHE:HD1	1.68	0.58
1:GD:267:MET:HB2	1:GD:301:GLN:NE2	2.18	0.58
1:HB:326:VAL:HG11	1:HB:353:ILE:HD11	1.83	0.58
2:HG:174:SER:HB2	2:HG:207:GLU:OE1	2.03	0.58
2:HK:55:GLU:O	2:IK:285:GLN:NE2	2.35	0.58
2:HK:91:GLN:H	2:HK:121:ARG:HH11	1.50	0.58
1:HL:345:ILE:HG23	2:HM:398:MET:HE1	1.85	0.58
2:IE:2:ARG:NH1	2:IE:242:LEU:O	2.36	0.58
1:IH:267:MET:HE2	1:IH:301:GLN:HG2	1.85	0.58
2:JB:192:HIS:ND1	2:JB:424:ASP:OD2	2.37	0.58
1:JC:249:ASP:H	1:JC:252:LYS:HB3	1.69	0.58
2:JD:257:THR:HG1	1:JE:397:TRP:CD1	2.20	0.58
1:JE:327:ASP:HB3	2:JF:177:VAL:HG13	1.84	0.58
2:JJ:215:ARG:HH21	2:JJ:299:ALA:HA	1.68	0.58
1:KA:315:ALA:HB3	1:KA:330:MET:HE1	1.85	0.58
1:KC:134:GLN:HG3	1:KC:165:MET:HG3	1.84	0.58
2:KH:262:TYR:HD2	2:KH:265:ILE:HD12	1.68	0.58
2:KL:319:TYR:HB3	2:KL:323:VAL:HG21	1.85	0.58
1:KM:80:PRO:HG3	49:3Q:518:TYR:CD2	2.39	0.58
1:LA:169:VAL:HA	1:LA:202:ILE:HB	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LB:75:VAL:HG21	2:LB:94:SER:HB2	1.85	0.58
1:LC:311:LEU:HA	1:LC:342:ILE:HD12	1.85	0.58
1:LI:66:MET:HE2	1:LI:116:VAL:HG11	1.84	0.58
2:LL:69:ASP:O	2:LL:94:SER:HA	2.03	0.58
2:LL:142:GLY:HA2	2:LL:183:GLU:HG3	1.85	0.58
2:LL:180:ALA:HB3	2:LL:183:GLU:HB2	1.86	0.58
2:LN:33:ASP:OD1	2:LN:34:GLY:N	2.36	0.58
1:LO:358:PRO:HB2	1:LO:361:LEU:HD12	1.86	0.58
1:MF:416:ASN:OD1	33:2G:129:ARG:NH1	2.37	0.58
1:MH:62:ARG:NH2	1:MH:127:CYS:SG	2.77	0.58
1:MN:42:LEU:HD12	45:2z:198:PHE:HB3	1.85	0.58
1:N:226:ASN:OD1	69:N:500:GDP:N1	2.35	0.58
2:NC:192:HIS:NE2	2:NC:421:ALA:HA	2.18	0.58
1:NH:322:SER:OG	2:NI:222:PRO:O	2.15	0.58
1:NJ:375:GLN:HA	1:NJ:378:PHE:HB2	1.85	0.58
1:NL:324:LYS:NZ	2:NM:222:PRO:HG2	2.16	0.58
1:OD:152:ILE:HG22	1:OD:195:ASN:HB3	1.84	0.58
2:OI:53:PHE:HB3	2:OI:61:HIS:HB3	1.84	0.58
2:OK:192:HIS:ND1	2:OK:424:ASP:OD1	2.28	0.58
2:PI:175:PRO:HB3	2:PI:390:ARG:HD3	1.85	0.58
1:QE:148:GLY:O	1:QE:152:ILE:HG12	2.03	0.58
1:QG:322:SER:OG	1:QG:325:GLU:OE1	2.20	0.58
2:QH:392:ASP:HB3	2:QH:425:LEU:HD23	1.85	0.58
2:RB:234:VAL:HG21	2:RB:302:LEU:HD21	1.83	0.58
1:RE:26:ASP:O	1:RE:359:LYS:NZ	2.37	0.58
2:RJ:138:PHE:HE2	2:RJ:235:VAL:HG21	1.69	0.58
1:SF:207:LEU:HB3	1:SF:225:LEU:HG	1.85	0.58
1:SH:16:ILE:HD12	1:SH:229:VAL:HG21	1.86	0.58
1:T:276:ARG:O	21:0w:447:TYR:OH	2.16	0.58
2:TC:285:GLN:HE22	2:TC:287:SER:HB3	1.67	0.58
1:TD:73:MET:HA	1:TD:73:MET:HE3	1.85	0.58
1:UH:5:VAL:HG23	1:UH:62:ARG:HB3	1.85	0.58
2:VA:402:ARG:NH1	2:VA:415:GLU:OE2	2.37	0.58
1:VD:35:THR:OG1	1:VD:37:GLN:NE2	2.28	0.58
2:VI:64:ARG:NH1	2:VI:129:CYS:SG	2.77	0.58
1:VJ:178:THR:HB	1:VJ:181:GLU:HG3	1.85	0.58
2:VM:1:MET:N	2:VM:3:GLU:OE2	2.34	0.58
2:VM:323:VAL:HG23	2:VM:355:ILE:HG23	1.85	0.58
1:WJ:113:ILE:HG13	1:WJ:117:LEU:HD23	1.85	0.58
2:WK:326:LYS:HZ2	1:WL:208:TYR:HD1	1.51	0.58
6:0A:19:ILE:HG21	6:0A:152:ILE:HG13	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:0F:104:ILE:HD13	9:0L:587:VAL:HG21	1.84	0.58
9:0N:16:LEU:HD11	9:0N:356:CYS:SG	2.43	0.58
16:0l:387:LEU:HD21	16:0l:393:GLN:HA	1.85	0.58
23:1A:98:HIS:HE1	26:1Q:11:ALA:HB3	1.68	0.58
28:1g:244:ARG:NE	28:1g:254:LEU:CD2	2.66	0.58
29:1m:163:TYR:HE1	29:1m:182:ARG:HG2	1.68	0.58
49:3Q:315:ARG:NH1	49:3Q:392:LEU:O	2.36	0.58
64:5C:223:ASP:OD2	65:5H:219:TYR:OH	2.21	0.58
64:5D:93:LYS:HB3	65:5I:83:TYR:HH	1.67	0.58
66:5L:46:PRO:HD3	66:5L:247:TRP:HE3	1.67	0.58
1:AB:229:VAL:O	1:AB:233:MET:HG3	2.04	0.58
1:AD:149:THR:HA	1:AD:152:ILE:HG12	1.85	0.58
1:AJ:240:LEU:HD11	1:AJ:249:ASP:HA	1.85	0.58
1:B:112:LEU:HD22	1:B:147:MET:HE1	1.85	0.58
1:BD:61:PRO:HD3	1:BD:84:LEU:HG	1.84	0.58
1:BH:27:GLU:OE2	1:BH:318:ARG:NH2	2.34	0.58
1:BH:309:ARG:HH21	1:BH:342:ILE:HA	1.69	0.58
1:BJ:173:PRO:HD3	1:BJ:380:ARG:NH1	2.18	0.58
2:BK:286:LEU:O	2:BK:373:ARG:NH1	2.36	0.58
1:BN:190:HIS:HB2	1:BN:414:ASN:HD22	1.68	0.58
2:CF:116:ASP:OD1	2:CF:117:LEU:N	2.36	0.58
1:CM:101:TRP:NE1	1:CM:188:SER:OG	2.35	0.58
1:DG:267:MET:HE3	1:DG:299:MET:HE2	1.86	0.58
2:DJ:187:CYS:O	2:DJ:191:THR:HG23	2.03	0.58
2:DL:319:TYR:HE2	2:DL:328:VAL:HG13	1.69	0.58
1:E:236:VAL:HG13	1:E:237:THR:HG23	1.84	0.58
2:EE:33:ASP:O	2:EE:60:LYS:NZ	2.37	0.58
2:EE:200:VAL:HG23	2:EE:256:GLN:HE22	1.68	0.58
1:EF:203:ASP:HB3	1:EF:301:GLN:HA	1.84	0.58
1:EH:68:LEU:HD12	1:EH:97:ALA:HB2	1.85	0.58
1:EL:67:ASP:OD1	1:EL:68:LEU:N	2.37	0.58
2:FE:408:TYR:HB3	2:FE:413:MET:HE2	1.85	0.58
1:FH:396:HIS:HA	1:FH:399:THR:HG22	1.85	0.58
1:GH:381:VAL:HG13	1:GH:415:MET:HE1	1.85	0.58
1:GL:332:ASN:O	1:GL:336:LYS:HG3	2.03	0.58
2:HA:136:MET:HE1	2:HA:167:LEU:HD13	1.84	0.58
1:HL:91:ILE:HG21	1:HL:116:VAL:HG12	1.85	0.58
1:JA:48:ASN:O	1:JA:62:ARG:NH2	2.36	0.58
2:JB:51:THR:HG21	2:JB:243:ARG:HG2	1.84	0.58
2:JD:142:GLY:HA2	2:JD:183:GLU:HG3	1.86	0.58
2:JH:364:PRO:HB2	47:3D:165:GLN:OE1	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JJ:326:LYS:HZ3	1:JK:220:PRO:HD2	1.67	0.58
2:KB:71:GLU:HB3	2:KB:98:ASP:HB2	1.86	0.58
2:KD:298:PRO:HG3	2:KD:308:ARG:HH12	1.68	0.58
1:KE:198:GLU:HB2	1:KE:266:PHE:CE2	2.38	0.58
1:KI:10:GLY:O	1:KI:14:ASN:ND2	2.35	0.58
1:KM:3:GLU:O	1:KM:131:GLN:N	2.35	0.58
1:KM:48:ASN:O	1:KM:62:ARG:NH2	2.37	0.58
2:LB:67:PHE:HB2	2:LB:92:LEU:HD12	1.84	0.58
1:LC:362:LYS:HG3	1:LC:363:MET:HE3	1.85	0.58
2:LD:338:LYS:HG3	2:LD:340:THR:HG22	1.83	0.58
1:LE:379:ARG:O	1:LE:382:GLY:N	2.36	0.58
2:LH:123:ARG:NH2	2:MG:297:GLU:OE1	2.19	0.58
2:MA:212:LEU:HD21	2:MA:275:VAL:HG11	1.85	0.58
2:MI:270:THR:HG23	2:MI:302:LEU:HB2	1.86	0.58
1:ML:311:LEU:HA	1:ML:342:ILE:HD12	1.84	0.58
1:N:68:LEU:HD21	1:N:108:GLU:HB3	1.85	0.58
1:ND:347:ASN:OD1	2:NE:178:SER:OG	2.20	0.58
2:NE:212:LEU:O	2:NE:216:SER:OG	2.20	0.58
1:NF:65:LEU:HD21	1:NF:76:VAL:HG11	1.84	0.58
1:NJ:62:ARG:NH1	1:NJ:127:CYS:SG	2.76	0.58
1:NL:203:ASP:HB3	1:NL:302:ALA:H	1.68	0.58
2:OE:213:THR:HA	2:OE:217:LEU:HD23	1.84	0.58
1:P:257:LEU:O	1:P:370:ASN:ND2	2.36	0.58
1:PF:184:ASN:OD1	1:PF:398:TYR:OH	2.20	0.58
2:PM:65:CYS:SG	2:PM:66:LEU:N	2.75	0.58
2:QB:27:GLU:OE1	2:QB:243:ARG:NH2	2.36	0.58
2:QD:263:PRO:HG3	55:3b:74:GLU:OE2	2.01	0.58
1:QG:313:ALA:HB3	1:QG:349:ILE:HG12	1.85	0.58
1:QI:152:ILE:HG22	1:QI:195:ASN:HB3	1.85	0.58
2:R:180:ALA:HB3	2:R:183:GLU:HB2	1.85	0.58
1:RE:178:THR:HB	1:RE:181:GLU:HG3	1.85	0.58
1:RE:309:ARG:H	1:RE:372:THR:HG22	1.68	0.58
2:RF:325:PRO:HA	2:RF:328:VAL:HG22	1.85	0.58
1:S:58:ARG:NH1	1:T:280:GLN:OE1	2.36	0.58
2:SA:177:VAL:N	2:SA:207:GLU:OE2	2.35	0.58
2:SG:167:LEU:HG	2:SG:200:VAL:HB	1.85	0.58
1:SH:206:ALA:HB1	1:SH:300:MET:HA	1.86	0.58
1:SH:226:ASN:HA	1:SH:229:VAL:HG22	1.85	0.58
2:SK:50:ASN:O	2:SK:64:ARG:NH1	2.36	0.58
1:T:257:LEU:HD11	1:T:314:SER:HB2	1.85	0.58
1:TB:226:ASN:OD1	69:TB:500:GDP:N1	2.28	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TD:345:ILE:HG13	2:TE:398:MET:SD	2.44	0.58
1:TD:376:GLU:OE2	1:TD:380:ARG:NH2	2.36	0.58
1:TH:65:LEU:HB3	1:TH:73:MET:HE1	1.85	0.58
1:TH:267:MET:HE2	1:TH:374:ILE:HD13	1.85	0.58
1:TH:326:VAL:HG11	1:TH:353:ILE:HD11	1.85	0.58
2:TK:206:ASN:OD1	71:TK:501:GTP:O2'	2.19	0.58
2:TK:259:LEU:HD21	2:TK:316:CYS:HB2	1.83	0.58
2:TK:262:TYR:HB2	2:TK:265:ILE:HG12	1.85	0.58
2:VG:224:TYR:HA	2:VG:227:VAL:HG22	1.84	0.58
2:VK:98:ASP:O	2:VK:105:ARG:NH1	2.36	0.58
2:VM:187:CYS:O	2:VM:191:THR:HG23	2.03	0.58
2:VM:254:GLU:O	2:VM:258:ASN:ND2	2.37	0.58
1:W:236:VAL:HG13	1:W:237:THR:HG23	1.85	0.58
2:WM:325:PRO:HA	2:WM:328:VAL:HG12	1.84	0.58
3:XF:85:LYS:HB2	3:XF:159:ASN:HB3	1.84	0.58
6:0:196:VAL:HG22	6:0:199:ASP:HB2	1.85	0.58
9:0N:114:LEU:HD22	9:0N:123:LEU:HD21	1.84	0.58
9:0O:106:LEU:HD23	9:0O:135:VAL:HG21	1.85	0.58
24:1K:429:ALA:HB2	24:1K:505:ILE:HD13	1.86	0.58
26:1Q:69:VAL:HA	26:1Q:72:ILE:HG22	1.84	0.58
26:1Q:306:VAL:HG13	26:1Q:307:LEU:HG	1.84	0.58
31:1q:37:LEU:HD22	31:1q:86:VAL:HG11	1.84	0.58
31:1q:216:THR:HG23	31:1q:219:GLU:H	1.68	0.58
32:2C:56:ASP:O	32:2C:60:LYS:HG2	2.03	0.58
41:2e:339:ASN:HA	41:2e:342:ASN:HD22	1.67	0.58
44:2w:130:LYS:HE3	44:2w:223:ASP:HA	1.84	0.58
47:3D:200:GLN:HE21	47:3D:220:VAL:HG21	1.67	0.58
49:3Q:93:LEU:HD11	49:3Q:158:VAL:HG21	1.86	0.58
58:3m:52:LYS:O	58:3m:56:HIS:ND1	2.31	0.58
64:5C:129:ILE:HD11	65:5H:128:VAL:HG22	1.84	0.58
1:A:174:ARG:HG2	1:A:380:ARG:HH22	1.68	0.58
2:AA:316:CYS:HB3	2:AA:378:ILE:HG23	1.84	0.58
2:AC:186:ASN:OD1	2:AC:408:TYR:OH	2.21	0.58
1:AD:163:ILE:HD11	1:AD:251:ARG:HG3	1.85	0.58
1:AF:80:PRO:HA	26:1Q:162:ARG:CZ	2.33	0.58
1:AH:215:LEU:HD11	1:AH:228:LEU:HD21	1.84	0.58
2:AI:83:TYR:HB3	2:AI:86:LEU:HB3	1.85	0.58
2:AI:90:GLU:HB2	2:AI:121:ARG:HE	1.68	0.58
1:AJ:10:GLY:O	1:AJ:14:ASN:ND2	2.36	0.58
1:AN:97:ALA:HB2	1:AN:143:THR:HB	1.84	0.58
1:BB:323:THR:HA	1:BB:326:VAL:HG12	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BJ:345:ILE:HG23	2:BK:398:MET:HE2	1.85	0.58
2:CL:199:ASP:OD2	2:CL:256:GLN:HG3	2.04	0.58
1:CM:227:HIS:HE1	24:1K:325:GLY:HA2	1.68	0.58
1:ED:19:LYS:HD3	1:ED:226:ASN:HB2	1.85	0.58
1:EH:3:GLU:OE2	1:EH:127:CYS:HB3	2.03	0.58
1:FB:342:ILE:HD11	1:FB:345:ILE:HD12	1.84	0.58
2:FE:134:GLY:HA3	2:FE:165:SER:HB2	1.86	0.58
1:GB:68:LEU:H	1:GB:143:THR:HG21	1.68	0.58
1:GB:170:ILE:HD13	1:GB:201:CYS:SG	2.43	0.58
2:GC:195:LEU:HD11	2:GC:428:LEU:HD22	1.86	0.58
1:GD:208:TYR:CE2	1:GD:225:LEU:HD11	2.38	0.58
1:GF:12:CYS:O	1:GF:16:ILE:HG12	2.03	0.58
1:GL:173:PRO:HD3	1:GL:380:ARG:CZ	2.33	0.58
1:HD:8:GLN:HE21	1:HD:65:LEU:HG	1.68	0.58
1:HD:249:ASP:H	1:HD:252:LYS:HB3	1.68	0.58
1:HL:235:GLY:HA3	1:HL:366:THR:HG21	1.85	0.58
1:ID:323:THR:HG21	2:IE:224:TYR:CE1	2.38	0.58
2:II:192:HIS:ND1	2:II:424:ASP:OD2	2.36	0.58
1:JC:216:LYS:HB3	20:0t:12:GLU:OE1	2.03	0.58
2:JJ:101:ASN:HD21	2:JJ:180:ALA:HB1	1.67	0.58
2:JJ:170:THR:HG21	2:JJ:194:LEU:HD21	1.85	0.58
1:JK:207:LEU:HD22	1:JK:300:MET:HB2	1.85	0.58
1:KE:45:GLU:HG2	1:KE:46:ARG:HG2	1.84	0.58
2:KL:323:VAL:HG23	2:KL:355:ILE:HG23	1.85	0.58
2:L:319:TYR:HB3	2:L:323:VAL:HG21	1.85	0.58
2:LB:296:PHE:CZ	2:LB:377:MET:HE1	2.38	0.58
2:LF:89:PRO:HB2	2:ME:280:LYS:HZ2	1.68	0.58
1:LG:345:ILE:O	1:LG:348:ASN:ND2	2.36	0.58
1:LI:375:GLN:OE1	1:LI:379:ARG:NH2	2.37	0.58
1:LM:67:ASP:OD1	1:LM:68:LEU:N	2.35	0.58
1:M:325:GLU:CD	2:MA:221:ARG:HD3	2.28	0.58
2:MG:322:ASP:HB2	23:1A:52:LEU:HD21	1.84	0.58
2:MM:340:THR:HG21	33:2I:185:THR:H	1.67	0.58
1:NJ:172:SER:OG	1:NJ:380:ARG:NH1	2.36	0.58
1:O:311:LEU:HD12	1:O:342:ILE:HD13	1.84	0.58
1:OD:55:SER:H	1:PD:283:GLY:HA2	1.68	0.58
1:OJ:236:VAL:HG13	1:OJ:237:THR:HG23	1.85	0.58
2:OM:71:GLU:OE2	2:OM:73:THR:OG1	2.19	0.58
1:P:121:ARG:NH2	1:P:158:GLU:OE1	2.37	0.58
2:PA:209:ILE:HD11	2:PA:230:LEU:HB2	1.84	0.58
2:QD:405:VAL:O	2:QD:409:VAL:HG23	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QG:239:CYS:SG	1:QG:248:SER:N	2.75	0.58
2:SA:241:SER:HA	2:SA:356:ASN:ND2	2.19	0.58
1:SD:48:ASN:O	1:SD:62:ARG:NH2	2.36	0.58
2:SG:362:VAL:HB	2:SG:370:LYS:HB3	1.83	0.58
1:TD:49:VAL:HG11	1:TD:241:ARG:HG2	1.86	0.58
2:TK:67:PHE:HB2	2:TK:92:LEU:HD12	1.84	0.58
2:UA:67:PHE:HB2	2:UA:92:LEU:HD12	1.84	0.58
1:UD:323:THR:HA	1:UD:326:VAL:HG12	1.86	0.58
1:UF:139:LEU:HG	1:UF:168:SER:HB3	1.83	0.58
1:UF:204:ASN:HD22	1:UF:207:LEU:HD12	1.68	0.58
1:UF:334:GLN:NE2	1:UF:348:ASN:OD1	2.36	0.58
2:UI:119:LEU:HD11	2:UI:156:ARG:HG2	1.86	0.58
2:WI:237:SER:HA	2:WI:320:ARG:HD2	1.84	0.58
2:WM:209:ILE:HG21	2:WM:227:VAL:HG13	1.84	0.58
3:X:123:MET:HE2	3:X:125:LEU:HD21	1.86	0.58
3:XF:92:THR:HB	3:XF:153:ARG:HB3	1.84	0.58
10:0R:181:GLU:OE2	10:0R:184:ARG:NH2	2.24	0.58
11:0U:292:CYS:HB3	11:0U:302:SER:HB2	1.86	0.58
16:0l:565:LYS:HD3	16:0l:588:GLN:HB3	1.85	0.58
17:0n:108:VAL:HA	17:0n:111:GLN:HG3	1.83	0.58
27:1S:764:ARG:HH12	27:1S:773:PHE:HE1	1.52	0.58
33:2F:255:ASP:OD1	33:2F:256:HIS:N	2.34	0.58
35:2O:27:HIS:O	51:X1:196:ARG:NH2	2.37	0.58
37:2S:180:ASN:O	54:3Z:340:VAL:HA	2.02	0.58
43:2t:371:HIS:HE1	43:2t:373:LEU:HD23	1.67	0.58
1:AD:355:ASP:OD2	54:3Z:343:SER:HA	2.03	0.58
2:AE:215:ARG:HH21	2:AE:299:ALA:HB1	1.69	0.58
1:BB:10:GLY:O	1:BB:14:ASN:ND2	2.36	0.58
2:BI:7:ILE:HB	2:BI:137:VAL:HG12	1.84	0.58
1:BJ:384:GLN:O	1:BJ:388:MET:HG2	2.03	0.58
1:BL:236:VAL:HG13	1:BL:237:THR:HG23	1.84	0.58
2:CB:372:GLN:NE2	27:1S:272:SER:HB3	2.19	0.58
1:CK:238:CYS:HB2	1:CK:318:ARG:HD3	1.85	0.58
1:CM:11:GLN:NE2	69:CM:500:GDP:O1A	2.36	0.58
2:EA:167:LEU:HD21	2:EA:255:PHE:HZ	1.68	0.58
2:EE:87:PHE:HB3	2:EE:92:LEU:HD11	1.85	0.58
1:EH:4:ILE:HB	1:EH:50:TYR:HE1	1.68	0.58
1:EH:166:THR:HG21	1:EH:192:LEU:HD12	1.86	0.58
1:F:267:MET:HA	1:F:301:GLN:HE22	1.69	0.58
1:F:268:MET:O	1:F:299:MET:HE3	2.03	0.58
2:FA:326:LYS:HZ1	1:FB:208:TYR:HA	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FE:90:GLU:HB2	2:FE:121:ARG:NH1	2.19	0.58
2:FI:173:PRO:HG3	2:FI:183:GLU:HG2	1.85	0.58
1:G:3:GLU:HB3	1:G:62:ARG:HH12	1.67	0.58
2:GC:11:GLN:OE1	2:GC:15:GLN:NE2	2.36	0.58
1:GJ:68:LEU:HD12	1:GJ:97:ALA:HB2	1.86	0.58
2:GK:11:GLN:O	2:GK:15:GLN:HG2	2.03	0.58
1:GL:267:MET:HE2	1:GL:299:MET:HE2	1.84	0.58
2:HK:295:VAL:HG21	2:HK:375:VAL:HG13	1.86	0.58
2:HK:324:VAL:HG13	2:HK:326:LYS:HB2	1.86	0.58
2:IC:174:SER:HB2	2:IC:207:GLU:OE1	2.04	0.58
2:IG:155:GLU:HG2	2:IG:197:HIS:CD2	2.39	0.58
1:JC:60:VAL:HG11	1:JC:86:ARG:HE	1.69	0.58
1:JG:279:GLN:NE2	47:3D:134:GLY:O	2.36	0.58
1:JK:289:LEU:O	1:JK:293:MET:HG3	2.02	0.58
2:JN:66:LEU:HD13	2:JN:121:ARG:HG2	1.86	0.58
1:KC:316:LEU:HD23	1:KC:352:SER:HB2	1.86	0.58
1:KC:347:ASN:ND2	2:KD:178:SER:O	2.36	0.58
1:KC:379:ARG:HE	1:KC:419:VAL:HG11	1.69	0.58
2:KD:223:SER:OG	2:KD:224:TYR:N	2.36	0.58
2:LD:55:GLU:CD	23:1A:175:LYS:HZ1	2.12	0.58
2:LF:273:ALA:HB3	2:LF:295:VAL:HG23	1.85	0.58
1:LG:214:THR:HG21	1:LG:273:LEU:HB3	1.84	0.58
2:LH:392:ASP:OD1	35:2O:28:HIS:NE2	2.33	0.58
1:LO:256:ASN:HB3	1:LO:350:LYS:HG3	1.86	0.58
1:LO:392:LYS:NZ	22:1y:150:ASN:OD1	2.37	0.58
2:MC:209:ILE:HG21	2:MC:227:VAL:HG13	1.85	0.58
1:MD:375:GLN:HA	1:MD:378:PHE:HD2	1.68	0.58
2:MI:434:GLU:OE2	33:2H:146:HIS:HA	2.04	0.58
1:MJ:70:PRO:HA	1:MJ:73:MET:HG2	1.86	0.58
2:MK:71:GLU:OE2	2:MK:98:ASP:HB2	2.03	0.58
1:ML:161:ASP:OD1	1:ML:162:ARG:NE	2.28	0.58
1:N:330:MET:HE1	1:N:351:SER:HB2	1.85	0.58
2:NE:27:GLU:OE2	2:NE:243:ARG:NH2	2.36	0.58
1:NL:242:PHE:HB3	1:NL:356:ILE:HD13	1.86	0.58
1:O:203:ASP:HB2	1:O:301:GLN:HG3	1.85	0.58
1:OH:275:SER:HB2	1:OH:278:SER:HB3	1.86	0.58
1:OL:216:LYS:HB2	1:OL:275:SER:HB2	1.86	0.58
1:PF:274:THR:HB	1:PF:282:ARG:HH11	1.68	0.58
2:PK:406:HIS:HA	2:PK:409:VAL:HG22	1.84	0.58
2:Q:3:GLU:OE2	2:Q:130:THR:N	2.36	0.58
2:Q:175:PRO:HB3	2:Q:390:ARG:HE	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QC:200:MET:HG2	1:QC:268:MET:SD	2.43	0.58
1:RC:245:GLN:HA	2:RD:15:GLN:HE22	1.68	0.58
2:SA:6:CYS:O	2:SA:65:CYS:HA	2.03	0.58
1:SD:215:LEU:HB3	1:SD:217:LEU:HD23	1.85	0.58
1:TB:272:PRO:HD3	1:TB:364:SER:HA	1.85	0.58
1:UH:172:SER:HA	1:UH:380:ARG:HH12	1.68	0.58
2:UK:26:LEU:HD22	2:UK:364:PRO:HD2	1.86	0.58
1:V:83:GLN:NE2	14:0c:305:GLN:HB3	2.17	0.58
1:VB:316:LEU:HD23	1:VB:352:SER:HB2	1.85	0.58
2:VE:257:THR:HG1	1:VF:397:TRP:CD1	2.22	0.58
2:VM:392:ASP:HB2	2:VM:422:ARG:HH12	1.67	0.58
1:W:218:THR:HG22	14:0c:320:LYS:HD2	1.85	0.58
1:WH:345:ILE:O	1:WH:348:ASN:ND2	2.37	0.58
2:WM:26:LEU:HD22	2:WM:363:VAL:HG12	1.85	0.58
3:X:92:THR:HB	3:X:153:ARG:HB3	1.86	0.58
9:0L:497:ARG:HB3	9:0L:499:LEU:HD13	1.86	0.58
9:0M:22:LEU:HB3	9:0M:25:SER:HB3	1.86	0.58
24:1H:578:THR:N	24:1H:581:GLU:OE1	2.31	0.58
24:1I:256:ARG:HB2	24:1I:362:ASN:HB2	1.84	0.58
66:5K:234:MET:HE2	66:5K:236:LEU:HD11	1.85	0.58
1:A:100:ASN:ND2	1:A:397:TRP:O	2.32	0.58
1:AH:322:SER:OG	2:AI:222:PRO:O	2.20	0.58
1:AL:253:LEU:HD21	1:AL:316:LEU:HD21	1.86	0.58
1:B:377:MET:HA	1:B:380:ARG:HG2	1.85	0.58
1:BB:22:GLU:HA	1:BB:81:TYR:HD2	1.68	0.58
1:BJ:139:LEU:HA	1:BJ:145:SER:HB3	1.85	0.58
1:BJ:272:PRO:HD3	1:BJ:364:SER:HA	1.86	0.58
1:BN:113:ILE:HG12	1:BN:117:LEU:HD23	1.85	0.58
2:C:41:CYS:SG	2:C:42:ILE:N	2.77	0.58
2:CB:90:GLU:HB2	2:CB:121:ARG:HE	1.67	0.58
1:CC:234:SER:O	1:CC:241:ARG:NH2	2.37	0.58
2:CD:3:GLU:HA	2:CD:51:THR:HA	1.86	0.58
1:CE:217:LEU:HD22	26:1Q:314:ASN:HD21	1.67	0.58
1:CI:361:LEU:HD13	24:1I:328:THR:HG22	1.86	0.58
2:CL:174:SER:OG	2:CL:177:VAL:O	2.22	0.58
1:DA:389:PHE:HZ	1:DA:405:GLU:HG3	1.68	0.58
2:DH:240:ALA:O	2:DH:356:ASN:ND2	2.37	0.58
2:DJ:406:HIS:HA	2:DJ:409:VAL:HG22	1.86	0.58
1:E:252:LYS:HG3	2:EA:100:ALA:HA	1.85	0.58
1:E:294:PHE:CD2	1:E:333:VAL:HG11	2.38	0.58
2:EE:335:ILE:HG23	2:EE:341:ILE:HD11	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EF:58:ARG:HD2	25:1O:470:MET:HE1	1.86	0.58
1:EH:139:LEU:HD13	1:EH:168:SER:HB2	1.84	0.58
2:EI:195:LEU:HD21	2:EI:264:ARG:HE	1.68	0.58
2:EI:265:ILE:HG22	2:EI:380:ASN:HD21	1.68	0.58
1:FH:253:LEU:HD11	1:FH:316:LEU:HD11	1.84	0.58
1:FL:133:PHE:O	1:FL:164:MET:HA	2.04	0.58
1:G:8:GLN:HG2	1:G:17:GLY:HA3	1.85	0.58
2:GG:217:LEU:HD21	2:GG:368:LEU:HD23	1.86	0.58
2:GK:67:PHE:HB2	2:GK:92:LEU:HD12	1.85	0.58
1:HF:303:ALA:HB2	1:HF:377:MET:SD	2.43	0.58
1:IF:60:VAL:HG11	1:IF:86:ARG:HB2	1.86	0.58
1:JA:257:LEU:HD23	1:JA:312:THR:HG22	1.86	0.58
2:JB:392:ASP:HB3	2:JB:425:LEU:HD23	1.86	0.58
1:JC:131:GLN:HE22	1:JC:250:LEU:HB2	1.68	0.58
2:JD:332:ILE:O	2:JD:336:LYS:HG3	2.03	0.58
1:KA:69:GLU:HG3	1:KA:71:GLY:H	1.68	0.58
1:KA:289:LEU:HD11	1:KA:363:MET:HG2	1.84	0.58
2:KL:200:VAL:HG23	2:KL:256:GLN:HE21	1.67	0.58
1:MD:172:SER:HB3	1:MD:175:VAL:HG22	1.86	0.58
1:MJ:311:LEU:HD23	1:MJ:342:ILE:HD12	1.86	0.58
1:MJ:361:LEU:O	44:2w:15:ARG:NH2	2.33	0.58
1:NB:174:ARG:NH2	1:NB:205:GLU:OE2	2.36	0.58
2:NC:57:GLY:O	41:2o:408:LYS:NZ	2.29	0.58
2:NC:318:MET:HE3	2:NC:318:MET:HA	1.85	0.58
1:ND:249:ASP:H	1:ND:252:LYS:HB2	1.67	0.58
1:OL:103:LYS:HA	1:OL:107:THR:HG23	1.84	0.58
1:OL:213:ARG:HH12	1:OL:297:LYS:HE3	1.69	0.58
1:P:379:ARG:HE	1:P:419:VAL:HG11	1.68	0.58
2:PA:265:ILE:HG21	2:PA:313:MET:HE1	1.86	0.58
2:PE:213:THR:HG22	2:PE:217:LEU:HD12	1.86	0.58
1:PL:137:HIS:NE2	1:PL:166:THR:OG1	2.36	0.58
2:Q:295:VAL:HG21	2:Q:375:VAL:HG13	1.84	0.58
1:QE:130:LEU:HD21	1:QE:133:PHE:CE1	2.38	0.58
1:RK:299:MET:HE3	1:RK:305:PRO:HG2	1.86	0.58
2:SC:282:TYR:HB3	41:2c:471:LEU:HD23	1.84	0.58
1:SJ:332:ASN:O	1:SJ:336:LYS:HG2	2.04	0.58
1:UD:406:MET:O	1:UD:409:THR:OG1	2.17	0.58
2:UI:372:GLN:HG3	8:0J:357:LEU:HD12	1.85	0.58
1:VB:237:THR:HG23	1:VB:241:ARG:HE	1.67	0.58
2:VC:419:SER:O	2:VC:423:GLU:HG3	2.03	0.58
2:VG:217:LEU:HD21	2:VG:275:VAL:HG22	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VG:220:GLU:HB3	2:VG:221:ARG:HH11	1.67	0.58
2:VK:286:LEU:O	2:VK:373:ARG:NH1	2.35	0.58
1:W:91:ILE:HD11	1:W:119:VAL:HG21	1.86	0.58
1:W:198:GLU:HB2	1:W:266:PHE:HE2	1.69	0.58
1:WD:294:PHE:HE1	1:WD:333:VAL:HG11	1.68	0.58
2:WG:365:GLY:HA3	9:0M:406:ASP:HB3	1.85	0.58
2:WM:39:ASP:OD2	9:0O:230:GLN:NE2	2.37	0.58
3:XA:78:MET:HG2	3:XA:165:LEU:HD22	1.85	0.58
6:0A:155:TYR:OH	6:0A:220:ARG:NH1	2.36	0.58
28:1X:254:LEU:HD21	28:1Y:22:ILE:HD12	1.85	0.58
41:2e:180:GLN:O	41:2e:184:ARG:HG2	2.03	0.58
49:3Q:507:SER:OG	49:3Q:509:GLU:OE1	2.21	0.58
59:4a:191:PRO:O	59:4a:193:ARG:NH1	2.36	0.58
64:5B:101:ILE:HG12	65:5G:90:LYS:HE3	1.85	0.58
66:5L:121:VAL:HG13	66:5L:185:PRO:HG2	1.85	0.58
2:AA:219:ILE:HG12	2:AA:222:PRO:HD3	1.84	0.58
1:AD:21:TRP:CZ3	1:AD:50:TYR:HB3	2.38	0.58
1:AD:208:TYR:CE1	1:AD:225:LEU:HD11	2.39	0.58
2:AE:356:ASN:OD1	2:AE:357:TYR:N	2.37	0.58
2:AE:422:ARG:HH12	2:AE:426:ALA:HB2	1.69	0.58
1:AF:252:LYS:HD3	2:AG:100:ALA:HA	1.86	0.58
1:AJ:332:ASN:HB3	1:AJ:336:LYS:NZ	2.19	0.58
2:AK:51:THR:HG21	2:AK:243:ARG:HG2	1.86	0.58
1:AL:14:ASN:HB3	1:AL:76:VAL:HG21	1.85	0.58
1:BJ:65:LEU:HD21	1:BJ:76:VAL:HG11	1.84	0.58
1:BN:330:MET:HE2	1:BN:349:ILE:HG23	1.85	0.58
2:CD:71:GLU:HB3	2:CD:98:ASP:HB3	1.86	0.58
1:CG:323:THR:HA	1:CG:326:VAL:HG12	1.84	0.58
1:CI:169:VAL:HA	1:CI:202:ILE:HB	1.85	0.58
1:DA:237:THR:HG22	1:DA:250:LEU:HD21	1.86	0.58
1:DC:9:ALA:HB2	1:DC:66:MET:HE3	1.84	0.58
2:DD:347:CYS:HA	1:DE:388:MET:HE2	1.85	0.58
1:DI:229:VAL:HG12	1:DI:233:MET:HE2	1.86	0.58
1:EB:248:SER:HA	1:EB:252:LYS:HE2	1.85	0.58
2:EE:202:THR:HG23	2:EE:270:THR:HG21	1.85	0.58
2:EG:295:VAL:HG21	2:EG:375:VAL:HG13	1.86	0.58
1:GD:172:SER:OG	1:GD:203:ASP:OD1	2.22	0.58
1:GD:404:ASP:HB3	66:5K:168:ARG:NH2	2.18	0.58
1:GH:340:TYR:OH	59:4O:280:LYS:O	2.22	0.58
1:GL:87:PRO:HD3	1:HL:281:TYR:CD1	2.38	0.58
2:HC:212:LEU:HD13	2:HC:300:GLY:HA2	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HM:387:VAL:HG23	2:HM:390:ARG:NH2	2.19	0.58
1:I:293:MET:HE1	1:I:317:PHE:CZ	2.38	0.58
2:IA:335:ILE:HG23	2:IA:341:ILE:HD11	1.85	0.58
2:IC:361:THR:HA	7:0D:14:VAL:HG13	1.86	0.58
1:JA:252:LYS:HZ3	2:JB:101:ASN:HB2	1.66	0.58
2:JF:89:PRO:HB2	2:KF:280:LYS:NZ	2.17	0.58
1:JG:46:ARG:NH2	2:JH:76:ASP:OD2	2.37	0.58
2:JH:187:CYS:O	2:JH:191:THR:HG23	2.04	0.58
1:JK:48:ASN:O	1:JK:62:ARG:NH2	2.24	0.58
1:JM:204:ASN:OD1	69:JM:500:GDP:O2'	2.21	0.58
1:KG:198:GLU:HB2	1:KG:266:PHE:HE2	1.69	0.58
2:KJ:28:HIS:ND1	49:3Q:254:TYR:OH	2.36	0.58
2:LB:191:THR:HG21	2:LB:425:LEU:HD11	1.86	0.58
1:LC:156:ARG:HD2	13:0Y:98:THR:HG21	1.85	0.58
1:LK:43:GLN:HG2	45:2z:79:LEU:HD23	1.86	0.58
1:LM:165:MET:SD	1:LM:250:LEU:HD13	2.43	0.58
1:M:219:THR:OG1	23:1A:277:GLU:OE2	2.20	0.58
2:MA:218:ASP:OD2	29:1j:224:ARG:NH2	2.37	0.58
1:MB:18:SER:O	1:MB:22:GLU:HG3	2.04	0.58
2:MG:211:ASP:HB3	2:MG:215:ARG:HH12	1.69	0.58
1:N:371:ASN:OD1	1:N:372:THR:N	2.37	0.58
2:NC:30:ILE:HD12	2:NC:61:HIS:HD2	1.68	0.58
1:ND:97:ALA:HB2	1:ND:143:THR:HB	1.86	0.58
1:OF:334:GLN:HE22	1:OF:348:ASN:HB2	1.69	0.58
2:OM:54:SER:HA	2:OM:64:ARG:HH21	1.69	0.58
1:P:230:ALA:HA	1:P:233:MET:HB3	1.85	0.58
2:PC:1:MET:N	2:PC:3:GLU:OE2	2.37	0.58
1:PF:178:THR:HB	1:PF:181:GLU:HG3	1.84	0.58
1:PH:201:CYS:SG	1:PH:377:MET:HE1	2.44	0.58
1:PH:344:TRP:HZ3	2:PI:403:ALA:HB2	1.67	0.58
2:PK:257:THR:HG1	1:PL:397:TRP:CD1	2.22	0.58
2:PK:280:LYS:HA	2:PK:283:HIS:HD2	1.68	0.58
1:QA:330:MET:SD	1:QA:349:ILE:HG21	2.44	0.58
2:RD:75:VAL:HG21	2:RD:94:SER:HB2	1.84	0.58
1:RG:186:THR:HG23	1:RG:415:MET:HG3	1.86	0.58
2:RJ:101:ASN:ND2	71:RJ:501:GTP:O1A	2.36	0.58
2:RJ:406:HIS:HA	2:RJ:409:VAL:HG12	1.86	0.58
2:SA:319:TYR:HB3	2:SA:323:VAL:HG21	1.85	0.58
1:SB:226:ASN:HA	1:SB:229:VAL:HG12	1.85	0.58
1:SD:151:LEU:HG	1:SD:155:LEU:HD13	1.86	0.58
2:TC:257:THR:HG1	1:TD:397:TRP:CG	2.22	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TD:31:ASP:OD2	1:TD:37:GLN:NE2	2.35	0.58
2:TK:79:ARG:NH2	2:TK:94:SER:OG	2.24	0.58
1:TL:362:LYS:NZ	21:0x:431:PHE:HA	2.19	0.58
2:UC:244:PHE:HB2	2:UC:356:ASN:HD21	1.69	0.58
1:UF:262:ARG:NH1	1:UF:421:GLU:OE1	2.36	0.58
2:UG:51:THR:HG21	2:UG:243:ARG:HG2	1.85	0.58
1:UH:208:TYR:CE2	1:UH:225:LEU:HD11	2.36	0.58
2:VG:260:VAL:HB	1:VH:397:TRP:HZ2	1.69	0.58
2:VI:240:ALA:HA	2:VI:243:ARG:HE	1.68	0.58
2:VI:390:ARG:O	2:VI:394:LYS:HG3	2.02	0.58
2:WA:71:GLU:HB3	2:WA:98:ASP:HB3	1.86	0.58
9:0N:207:VAL:HG22	9:0N:214:ILE:HG22	1.86	0.58
12:0W:296:GLY:O	12:0W:312:ARG:NH1	2.36	0.58
23:1A:94:LEU:HD13	25:1O:58:HIS:CE1	2.38	0.58
23:1E:97:ARG:HG2	49:3Q:206:VAL:HG12	1.86	0.58
41:2h:241:ALA:HB1	41:2h:245:ARG:NH1	2.19	0.58
41:2l:360:LEU:O	41:2l:364:ASN:ND2	2.26	0.58
2:AE:241:SER:O	2:AE:249:ASN:ND2	2.36	0.58
1:AF:328:GLU:OE2	1:AF:332:ASN:ND2	2.33	0.58
1:AL:256:ASN:O	1:AL:312:THR:HG21	2.04	0.58
1:BD:329:GLN:NE2	1:BD:330:MET:HG3	2.19	0.58
2:BE:116:ASP:OD1	2:BE:117:LEU:N	2.37	0.58
1:BF:42:LEU:HD11	16:0k:22:ARG:HD2	1.86	0.58
1:BL:73:MET:O	1:BL:77:ARG:HG3	2.04	0.58
1:BN:186:THR:HG22	1:BN:411:ALA:HB1	1.85	0.58
2:C:259:LEU:HD11	2:C:316:CYS:SG	2.44	0.58
2:CB:33:ASP:OD2	27:1S:764:ARG:NH1	2.36	0.58
1:CE:65:LEU:HB3	1:CE:73:MET:HE1	1.86	0.58
1:CG:10:GLY:O	1:CG:14:ASN:ND2	2.36	0.58
1:CG:16:ILE:HD11	1:CG:229:VAL:HB	1.86	0.58
2:CH:237:SER:HA	2:CH:320:ARG:HD2	1.84	0.58
2:CJ:298:PRO:HB3	2:CJ:307:PRO:HD2	1.85	0.58
1:CM:133:PHE:HD1	1:CM:164:MET:HE1	1.69	0.58
2:DD:27:GLU:OE1	2:DD:243:ARG:NH1	2.32	0.58
2:DF:173:PRO:HG3	2:DF:183:GLU:HG2	1.85	0.58
1:DG:19:LYS:HD3	42:2r:402:MET:HE1	1.86	0.58
2:DH:167:LEU:HG	2:DH:200:VAL:HB	1.86	0.58
2:DH:207:GLU:HA	2:DH:210:TYR:HB2	1.86	0.58
1:DK:253:LEU:HD21	1:DK:316:LEU:HD21	1.85	0.58
1:DM:263:LEU:HD21	1:DM:425:TYR:HD2	1.69	0.58
1:FB:149:THR:HA	1:FB:152:ILE:HG12	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FE:209:ILE:HG23	2:FE:230:LEU:HD23	1.85	0.58
2:FG:311:LYS:NZ	2:FG:342:GLN:OE1	2.37	0.58
1:FH:322:SER:OG	2:FI:222:PRO:O	2.15	0.58
1:G:251:ARG:O	1:G:255:VAL:HG12	2.04	0.58
2:GC:172:TYR:HD2	2:GC:203:MET:HG3	1.67	0.58
2:GE:259:LEU:HD21	2:GE:268:VAL:HG11	1.85	0.58
2:GI:295:VAL:HG21	2:GI:375:VAL:HG13	1.86	0.58
1:H:61:PRO:HD3	1:H:84:LEU:HG	1.85	0.58
2:HA:171:VAL:HA	2:HA:204:LEU:HB2	1.86	0.58
2:HE:84:ARG:HH21	2:HE:85:GLN:HE22	1.52	0.58
1:HJ:345:ILE:HG23	2:HK:398:MET:HE2	1.86	0.58
2:IA:319:TYR:HB3	2:IA:323:VAL:HG21	1.86	0.58
1:IB:27:GLU:OE2	1:IB:318:ARG:NH2	2.36	0.58
1:IF:392:LYS:HD2	1:IF:395:LEU:HD23	1.85	0.58
1:IH:10:GLY:O	1:IH:14:ASN:ND2	2.37	0.58
1:IJ:148:GLY:O	1:IJ:152:ILE:HG12	2.04	0.58
1:IJ:224:ASP:OD1	7:0D:199:THR:OG1	2.22	0.58
1:IL:165:MET:HE3	1:IL:250:LEU:HD23	1.86	0.58
2:JD:237:SER:HA	2:JD:320:ARG:HD2	1.85	0.58
2:KD:101:ASN:HD21	2:KD:180:ALA:HB1	1.68	0.58
2:KF:101:ASN:ND2	71:KF:501:GTP:O1A	2.37	0.58
2:KF:288:VAL:HB	2:KF:327:ASP:HB3	1.86	0.58
2:KF:396:ASP:OD2	2:KF:422:ARG:NH2	2.35	0.58
2:KL:313:MET:HE2	2:KL:382:THR:HG22	1.86	0.58
2:LJ:434:GLU:HG2	22:0z:148:PHE:CE2	2.38	0.58
2:LN:416:GLY:O	6:0A:244:ARG:NH2	2.36	0.58
1:M:292:GLN:HG2	1:M:298:ASN:ND2	2.19	0.58
2:ME:209:ILE:HG21	2:ME:227:VAL:HA	1.85	0.58
2:MI:245:ASP:HA	24:1I:34:ARG:HH21	1.69	0.58
1:MJ:227:HIS:HE2	24:1I:17:MET:HB3	1.69	0.58
1:MN:175:VAL:HG23	1:MN:205:GLU:CD	2.29	0.58
1:NB:87:PRO:HD3	1:OB:281:TYR:HD1	1.67	0.58
1:NF:256:ASN:HD21	2:NG:101:ASN:HD22	1.51	0.58
2:NI:67:PHE:HB2	2:NI:92:LEU:HD12	1.86	0.58
1:NL:232:VAL:HG22	1:NL:366:THR:HG23	1.86	0.58
1:OD:236:VAL:HG13	1:OD:237:THR:HG23	1.85	0.58
2:OG:377:MET:SD	2:OG:379:ALA:HB2	2.43	0.58
2:OM:102:ASN:HB3	2:OM:105:ARG:HB3	1.86	0.58
1:P:14:ASN:ND2	1:P:72:THR:OG1	2.32	0.58
2:PA:56:THR:OG1	2:Q:285:GLN:NE2	2.36	0.58
2:PE:191:THR:HG21	2:PE:425:LEU:HD21	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PF:235:GLY:HA3	1:PF:366:THR:HG21	1.86	0.58
2:PG:319:TYR:HB3	2:PG:323:VAL:HG21	1.85	0.58
2:Q:33:ASP:OD2	2:Q:34:GLY:N	2.36	0.58
1:QC:316:LEU:HD13	1:QC:352:SER:HB2	1.86	0.58
2:QD:33:ASP:O	2:QD:60:LYS:NZ	2.26	0.58
2:R:185:TYR:HB3	2:R:408:TYR:HE2	1.69	0.58
2:RB:365:GLY:HA2	41:2e:426:ARG:NH1	2.16	0.58
2:RD:174:SER:HB2	2:RD:207:GLU:OE1	2.03	0.58
1:RK:172:SER:OG	1:RK:205:GLU:OE1	2.22	0.58
1:RK:235:GLY:HA3	1:RK:366:THR:HG21	1.85	0.58
1:T:35:THR:HG23	1:T:37:GLN:NE2	2.19	0.58
2:TG:320:ARG:O	2:TG:373:ARG:HA	2.02	0.58
1:TH:236:VAL:HG13	1:TH:237:THR:HG23	1.86	0.58
1:TJ:51:PHE:O	1:TJ:62:ARG:NH1	2.36	0.58
1:TJ:389:PHE:HZ	1:TJ:405:GLU:HG3	1.69	0.58
2:TK:241:SER:OG	2:TK:250:VAL:O	2.17	0.58
2:UG:396:ASP:OD1	2:UG:397:LEU:N	2.36	0.58
1:UL:7:CYS:HB3	1:UL:66:MET:HE2	1.86	0.58
2:VK:406:HIS:HA	2:VK:409:VAL:HG22	1.84	0.58
1:W:73:MET:O	1:W:77:ARG:HG2	2.04	0.58
2:WE:200:VAL:HG23	2:WE:256:GLN:HG2	1.85	0.58
1:WF:248:SER:HB2	1:WF:252:LYS:HG2	1.85	0.58
2:WI:388:PHE:HA	2:WI:391:ILE:HG22	1.86	0.58
3:XD:73:LEU:HB2	3:XD:167:PHE:HB3	1.85	0.58
4:XO:229:ASP:HB3	4:XO:232:ILE:HG12	1.85	0.58
4:XR:134:ILE:O	4:XR:147:LYS:NZ	2.37	0.58
16:0k:728:CYS:N	16:0k:731:GLU:O	2.37	0.58
19:0r:18:THR:HG1	19:0r:76:TRP:CD1	2.21	0.58
24:1H:361:TYR:HB3	24:1H:365:THR:HB	1.84	0.58
24:1J:16:PRO:HD3	45:2z:77:ARG:HG3	1.85	0.58
24:1J:612:ALA:HB3	24:1J:615:SER:HB3	1.85	0.58
24:1K:365:THR:O	24:1K:369:MET:HG2	2.04	0.58
24:1K:566:PHE:HE2	24:1K:582:ILE:HG21	1.68	0.58
31:1q:234:GLN:NE2	31:1q:235:PRO:HD2	2.19	0.58
34:2L:53:ILE:HG21	34:2L:122:GLU:HB3	1.85	0.58
35:2O:22:HIS:CE1	35:2O:36:HIS:HB3	2.39	0.58
42:2r:170:LEU:HD11	42:2r:242:ARG:HE	1.67	0.58
46:3B:309:ARG:NH1	47:3D:246:GLU:OE1	2.37	0.58
66:5L:80:ASN:OD1	66:5L:81:THR:N	2.37	0.58
67:5P:12:ILE:HD12	67:5P:75:ARG:HD3	1.85	0.58
2:AC:396:ASP:OD2	2:AC:422:ARG:NH2	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:186:THR:HG22	1:AJ:411:ALA:HB1	1.84	0.58
2:BK:319:TYR:HB2	2:BK:355:ILE:HG22	1.86	0.58
1:BN:189:VAL:O	1:BN:193:VAL:HG23	2.03	0.58
2:CD:215:ARG:HH21	2:CD:299:ALA:HB1	1.69	0.58
2:CF:334:THR:HA	2:CF:337:THR:HG22	1.86	0.58
1:CI:326:VAL:HG21	1:CI:353:ILE:HD11	1.86	0.58
1:CM:210:ILE:HD11	1:CM:298:ASN:HA	1.84	0.58
2:DL:180:ALA:HB3	2:DL:183:GLU:HB2	1.86	0.58
1:FD:140:GLY:O	1:FD:184:ASN:ND2	2.30	0.58
2:FE:1:MET:N	2:FE:3:GLU:OE2	2.34	0.58
1:G:313:ALA:HB1	1:G:367:PHE:HE1	1.69	0.58
1:G:324:LYS:CE	2:GA:222:PRO:HD2	2.32	0.58
2:GI:145:THR:OG1	71:GI:501:GTP:O3G	2.20	0.58
1:H:117:LEU:HD22	1:H:121:ARG:HH12	1.69	0.58
2:HA:317:LEU:HB3	2:HA:319:TYR:CE1	2.39	0.58
1:HB:252:LYS:HD2	2:HC:100:ALA:HA	1.85	0.58
1:HD:10:GLY:HA2	1:HD:143:THR:HG23	1.85	0.58
1:HD:66:MET:HE1	1:HD:91:ILE:HB	1.85	0.58
1:HH:293:MET:HE2	1:HH:365:VAL:HG11	1.86	0.58
2:IA:196:GLU:HG3	2:IA:197:HIS:CD2	2.39	0.58
2:IE:216:SER:OG	2:IE:275:VAL:O	2.21	0.58
2:IK:286:LEU:O	2:IK:373:ARG:NH1	2.37	0.58
1:IL:420:SER:HA	1:IL:423:GLN:HE22	1.69	0.58
1:JA:235:GLY:HA3	1:JA:366:THR:HG21	1.86	0.58
2:JD:71:GLU:HG3	2:JD:73:THR:HG22	1.86	0.58
2:K:141:VAL:HG11	2:K:194:LEU:HD11	1.84	0.58
2:KB:138:PHE:HE2	2:KB:235:VAL:HG21	1.67	0.58
1:KE:217:LEU:HB2	1:KE:220:PRO:HG3	1.85	0.58
1:KG:9:ALA:HB2	1:KG:66:MET:HE3	1.84	0.58
1:KG:306:ARG:HG3	1:KG:340:TYR:HE1	1.68	0.58
2:KH:216:SER:OG	2:KH:275:VAL:O	2.21	0.58
2:KJ:254:GLU:O	2:KJ:258:ASN:ND2	2.34	0.58
1:KK:207:LEU:HB3	1:KK:225:LEU:HD22	1.86	0.58
2:L:180:ALA:HB3	2:L:183:GLU:HB2	1.84	0.58
2:L:288:VAL:HB	2:L:327:ASP:HB3	1.85	0.58
2:LB:33:ASP:OD1	2:LB:34:GLY:N	2.37	0.58
1:LE:267:MET:HE1	1:LE:305:PRO:HB3	1.86	0.58
1:LE:406:MET:HE2	32:2B:142:TYR:CE2	2.38	0.58
2:LJ:431:ASP:OD1	22:0z:144:LYS:N	2.36	0.58
1:MB:248:SER:HA	1:MB:252:LYS:HD2	1.85	0.58
1:MF:212:PHE:HZ	33:2G:204:PHE:CD1	2.22	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MK:377:MET:HE1	2:MK:379:ALA:HB2	1.86	0.58
2:NA:187:CYS:O	2:NA:191:THR:HG23	2.03	0.58
1:NJ:311:LEU:HA	1:NJ:342:ILE:HD12	1.84	0.58
2:NM:224:TYR:HA	2:NM:227:VAL:HB	1.86	0.58
2:OG:1:MET:N	2:OG:3:GLU:OE2	2.36	0.58
1:PD:332:ASN:HB3	1:PD:336:LYS:NZ	2.19	0.58
2:PG:175:PRO:HB3	2:PG:390:ARG:CZ	2.34	0.58
1:QE:133:PHE:HB2	1:QE:164:MET:SD	2.44	0.58
2:QJ:209:ILE:HG12	2:QJ:302:LEU:HD22	1.85	0.58
1:QK:371:ASN:OD1	1:QK:372:THR:N	2.37	0.58
2:RH:3:GLU:OE2	2:RH:131:GLY:N	2.34	0.58
1:RK:165:MET:HE1	1:RK:198:GLU:OE2	2.03	0.58
1:S:316:LEU:HD23	1:S:352:SER:HB2	1.85	0.58
2:SI:293:ASN:O	2:SI:297:GLU:HG2	2.04	0.58
1:T:178:THR:HG22	1:T:179:VAL:H	1.67	0.58
2:TC:65:CYS:O	2:TC:91:GLN:NE2	2.30	0.58
1:TL:173:PRO:HA	1:TL:176:SER:HB3	1.85	0.58
1:TL:203:ASP:HB2	1:TL:301:GLN:HG2	1.86	0.58
2:UE:157:LEU:O	2:UE:161:TYR:HB2	2.03	0.58
1:UL:293:MET:HA	1:UL:298:ASN:HD22	1.69	0.58
1:V:165:MET:HE1	1:V:250:LEU:HD22	1.86	0.58
2:VA:271:SER:HA	2:VA:302:LEU:HD13	1.86	0.58
2:VE:274:PRO:HG2	2:VE:371:VAL:HG11	1.85	0.58
2:WA:422:ARG:O	2:WA:422:ARG:NH1	2.37	0.58
1:WB:372:THR:HG21	1:WB:426:GLN:HB2	1.84	0.58
2:WC:51:THR:HG21	2:WC:243:ARG:HG2	1.85	0.58
3:XD:92:THR:OG1	3:XD:153:ARG:HB3	2.04	0.58
3:XE:92:THR:OG1	3:XE:153:ARG:HB3	2.04	0.58
9:0O:70:SER:HB2	9:0O:120:GLU:HG2	1.86	0.58
17:0m:9:GLU:HA	17:0m:12:ARG:HG2	1.86	0.58
20:0u:44:LYS:NZ	20:0u:85:ASP:OD2	2.35	0.58
22:0z:267:GLU:OE1	22:0z:271:ARG:NH1	2.35	0.58
24:1H:123:TYR:HB2	24:1H:128:THR:HG22	1.86	0.58
33:2I:233:HIS:HA	33:2I:237:VAL:HB	1.86	0.58
40:2Z:303:LYS:NZ	54:3a:37:ARG:O	2.32	0.58
64:5C:223:ASP:O	64:5C:227:ARG:HG2	2.04	0.58
68:5S:91:CYS:SG	68:5S:94:CYS:N	2.75	0.58
2:AI:180:ALA:HB3	2:AI:183:GLU:HB2	1.86	0.57
2:AK:259:LEU:HD21	2:AK:268:VAL:HG11	1.86	0.57
2:BA:319:TYR:HB2	2:BA:355:ILE:HG22	1.85	0.57
2:C:20:CYS:HB3	2:C:24:PHE:HE2	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:361:LEU:HD13	1:CA:364:SER:HB2	1.85	0.57
1:CC:187:LEU:O	1:CC:190:HIS:CE1	2.56	0.57
1:CE:234:SER:O	1:CE:241:ARG:NH2	2.37	0.57
1:CE:362:LYS:HE3	16:0k:149:SER:HA	1.86	0.57
2:CL:50:ASN:O	2:CL:64:ARG:NH1	2.37	0.57
1:DI:321:MET:HE2	1:DI:326:VAL:HB	1.85	0.57
1:DM:185:THR:O	1:DM:189:VAL:HG23	2.04	0.57
1:EB:215:LEU:HD21	1:EB:273:LEU:HD22	1.85	0.57
2:EK:180:ALA:HB3	2:EK:183:GLU:HB2	1.86	0.57
1:EL:204:ASN:OD1	69:EL:500:GDP:N2	2.34	0.57
1:F:276:ARG:NH2	24:1H:436:GLU:O	2.37	0.57
1:FL:175:VAL:HG23	1:FL:205:GLU:HG3	1.86	0.57
2:GA:209:ILE:HG21	2:GA:227:VAL:HG13	1.84	0.57
1:GB:252:LYS:NZ	71:GC:501:GTP:O3G	2.36	0.57
1:GJ:35:THR:OG1	1:GJ:37:GLN:NE2	2.36	0.57
2:GK:212:LEU:HD21	2:GK:275:VAL:HG11	1.85	0.57
1:HB:3:GLU:HG3	1:HB:127:CYS:HB3	1.86	0.57
2:HC:248:LEU:HB2	2:HC:355:ILE:H	1.69	0.57
1:HF:324:LYS:HG2	2:HG:210:TYR:CD1	2.39	0.57
2:HM:88:ASN:HB2	2:HM:91:GLN:HE21	1.69	0.57
2:IA:260:VAL:HG23	2:IA:265:ILE:O	2.04	0.57
2:IG:27:GLU:OE1	2:IG:243:ARG:NH2	2.37	0.57
2:IG:203:MET:HE1	2:IG:267:PHE:HD2	1.68	0.57
1:IL:354:CYS:SG	1:IL:355:ASP:N	2.76	0.57
2:JD:97:GLU:OE1	2:JD:105:ARG:NH2	2.35	0.57
1:JG:386:THR:O	1:JG:390:ARG:HG2	2.04	0.57
2:JH:167:LEU:HD13	2:JH:200:VAL:HB	1.86	0.57
2:KB:251:ASP:H	2:KB:254:GLU:HG3	1.67	0.57
2:KD:69:ASP:OD2	2:KD:70:LEU:N	2.37	0.57
2:KH:122:ILE:HD13	2:KH:157:LEU:HD21	1.86	0.57
2:KJ:264:ARG:NH2	2:KJ:424:ASP:OD1	2.36	0.57
1:KK:83:GLN:O	1:LK:281:TYR:OH	2.22	0.57
2:LB:45:GLU:HB3	27:1S:50:PRO:HB3	1.86	0.57
1:LC:290:THR:HG21	1:LC:329:GLN:HB3	1.87	0.57
1:LC:375:GLN:OE1	1:LC:379:ARG:NH2	2.37	0.57
2:LD:1:MET:HG2	2:LD:2:ARG:HG3	1.86	0.57
2:LH:167:LEU:HD13	2:LH:200:VAL:HB	1.86	0.57
1:LI:226:ASN:OD1	69:LI:500:GDP:N1	2.27	0.57
2:LL:120:ASP:OD1	2:LL:123:ARG:NH2	2.37	0.57
1:LM:211:CYS:HB3	1:LM:220:PRO:HG3	1.85	0.57
1:MF:152:ILE:O	1:MF:156:ARG:HG2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NM:195:LEU:HD21	2:NM:264:ARG:HH21	1.69	0.57
1:O:2:ARG:NH2	2:OA:71:GLU:OE2	2.37	0.57
1:O:3:GLU:HA	1:O:49:VAL:HA	1.85	0.57
2:OC:265:ILE:HG21	2:OC:313:MET:HE1	1.84	0.57
1:OD:100:ASN:HB3	1:OD:103:LYS:HG2	1.85	0.57
2:OE:56:THR:HA	2:PE:285:GLN:OE1	2.04	0.57
1:OH:209:ASP:OD1	1:OH:213:ARG:NE	2.37	0.57
2:OK:209:ILE:HG21	2:OK:227:VAL:HG13	1.87	0.57
2:OM:88:ASN:HB3	2:OM:91:GLN:HE21	1.68	0.57
2:OM:173:PRO:HG3	2:OM:183:GLU:HG2	1.86	0.57
2:PE:255:PHE:CE1	2:PE:378:ILE:HG21	2.37	0.57
2:PI:313:MET:HE3	2:PI:380:ASN:HB3	1.85	0.57
2:PK:1:MET:N	2:PK:3:GLU:OE2	2.37	0.57
1:PL:313:ALA:HB1	1:PL:367:PHE:HE1	1.69	0.57
1:PL:375:GLN:HB2	1:PL:419:VAL:HG23	1.85	0.57
2:PM:224:TYR:O	2:PM:228:ASN:ND2	2.36	0.57
2:Q:28:HIS:NE2	2:Q:48:ALA:O	2.34	0.57
1:QI:273:LEU:O	1:QI:292:GLN:NE2	2.36	0.57
2:QJ:35:SER:HB3	41:2e:190:TRP:CH2	2.39	0.57
2:RB:138:PHE:HE2	2:RB:235:VAL:HG21	1.69	0.57
2:RD:228:ASN:ND2	71:RD:501:GTP:O6	2.36	0.57
1:RG:209:ASP:OD2	1:RG:213:ARG:NH2	2.36	0.57
2:RH:334:THR:HA	2:RH:337:THR:HG22	1.86	0.57
2:RJ:439:SER:O	57:3h:98:LYS:NZ	2.36	0.57
2:RL:180:ALA:HB3	2:RL:183:GLU:HB2	1.86	0.57
2:SA:346:TRP:CG	1:SB:391:ARG:HD2	2.39	0.57
2:SG:16:VAL:HG21	2:SG:138:PHE:HB3	1.85	0.57
1:T:325:GLU:HA	1:T:328:GLU:HG3	1.86	0.57
1:TB:342:ILE:HG13	1:TB:345:ILE:HG22	1.86	0.57
2:TE:155:GLU:HG2	2:TE:197:HIS:CE1	2.39	0.57
1:TF:322:SER:OG	1:TF:325:GLU:OE1	2.10	0.57
1:TJ:207:LEU:HD13	1:TJ:225:LEU:HB3	1.86	0.57
1:UB:309:ARG:H	1:UB:372:THR:HG1	1.50	0.57
1:UD:73:MET:HG3	1:UD:92:PHE:HB3	1.86	0.57
1:UF:167:PHE:CG	1:UF:233:MET:HE2	2.39	0.57
2:UI:147:SER:HB2	2:UI:190:SER:HB3	1.86	0.57
2:UK:137:VAL:HG21	2:UK:154:LEU:HD21	1.86	0.57
2:UK:346:TRP:CD1	1:UL:391:ARG:HH12	2.21	0.57
1:V:248:SER:HB2	1:V:252:LYS:HG2	1.86	0.57
1:VB:213:ARG:HD2	1:VB:297:LYS:HD2	1.86	0.57
2:VG:265:ILE:HG21	2:VG:313:MET:HE1	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VH:178:THR:OG1	1:VH:181:GLU:HG3	2.04	0.57
1:VH:301:GLN:NE2	1:VH:303:ALA:O	2.36	0.57
2:VI:251:ASP:H	2:VI:254:GLU:HG3	1.69	0.57
2:WA:5:ILE:HD13	2:WA:64:ARG:HB3	1.85	0.57
2:WC:209:ILE:HG23	2:WC:230:LEU:HD23	1.86	0.57
2:WC:325:PRO:HA	2:WC:328:VAL:HG12	1.86	0.57
2:WI:11:GLN:HG3	2:WI:74:VAL:HG11	1.84	0.57
1:WJ:392:LYS:HE2	1:WJ:395:LEU:HD23	1.86	0.57
1:WL:322:SER:HA	2:WM:223:SER:HB2	1.86	0.57
3:XB:2:PHE:O	3:XB:7:GLN:NE2	2.37	0.57
5:XP:164:TYR:OH	5:XP:196:GLY:O	2.18	0.57
6:0:49:VAL:HA	6:0:52:GLU:HG2	1.86	0.57
6:0:75:LYS:NZ	6:0:114:ASP:OD1	2.37	0.57
8:0I:238:LYS:HA	8:0I:241:ARG:HE	1.69	0.57
9:0L:26:LEU:HD21	9:0L:35:LEU:HD22	1.86	0.57
9:0N:535:ASP:HB3	21:0w:89:LYS:NZ	2.19	0.57
10:0R:309:ARG:NH2	10:0R:310:MET:HE2	2.19	0.57
20:0u:69:LEU:HD12	20:0u:114:LEU:HD13	1.85	0.57
23:1B:345:ASP:O	23:1B:349:GLU:HG3	2.04	0.57
26:1Q:439:ASN:HD21	26:1Q:442:ARG:HH21	1.52	0.57
29:1l:64:PHE:HE2	29:1l:80:LEU:HD21	1.67	0.57
31:1q:165:HIS:NE2	22:1w:192:GLN:OE1	2.37	0.57
22:1x:242:ASP:O	22:1x:246:ILE:HG12	2.04	0.57
34:2L:143:ASP:OD1	34:2L:144:TYR:N	2.37	0.57
35:2O:30:TYR:O	39:2X:152:ARG:NH2	2.36	0.57
39:2X:27:ASN:OD1	39:2X:30:ARG:NH2	2.37	0.57
41:2c:348:MET:HB2	41:2c:352:ARG:NH1	2.19	0.57
44:2w:167:LEU:O	44:2w:225:ARG:NH2	2.36	0.57
62:4B:362:TYR:HB2	62:4B:365:GLU:HB2	1.85	0.57
28:4W:20:CYS:O	28:4W:23:CYS:HB3	2.04	0.57
1:AB:295:ASP:OD2	1:AB:297:LYS:NZ	2.28	0.57
1:AH:25:SER:HB3	1:AH:30:VAL:HB	1.85	0.57
2:AK:335:ILE:HG23	2:AK:341:ILE:HD11	1.87	0.57
1:AN:208:TYR:CE2	1:AN:225:LEU:HD11	2.39	0.57
2:BA:104:ALA:HB2	2:BA:413:MET:HE3	1.86	0.57
2:CB:326:LYS:HE3	1:CC:208:TYR:CG	2.39	0.57
1:CM:122:LYS:NZ	1:DM:291:GLN:OE1	2.36	0.57
2:DB:311:LYS:H	2:DB:382:THR:HG1	1.50	0.57
1:DK:149:THR:HA	1:DK:152:ILE:HD12	1.86	0.57
1:F:237:THR:OG1	1:F:241:ARG:NH1	2.37	0.57
2:HA:254:GLU:HA	1:HB:98:GLY:HA2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HB:198:GLU:HA	1:HB:264:HIS:HB2	1.86	0.57
1:HB:207:LEU:HB3	1:HB:225:LEU:HD12	1.84	0.57
1:HH:290:THR:HA	1:HH:293:MET:HE3	1.85	0.57
2:HM:109:THR:HG23	2:HM:110:ILE:HG12	1.85	0.57
2:IC:1:MET:N	2:IC:3:GLU:OE2	2.36	0.57
1:IH:201:CYS:SG	1:IH:374:ILE:HD11	2.44	0.57
2:II:335:ILE:HG23	2:II:341:ILE:HD11	1.85	0.57
1:IJ:5:VAL:HG23	1:IJ:62:ARG:HG2	1.86	0.57
1:IJ:247:ASN:C	1:IJ:247:ASN:HD22	2.09	0.57
1:IL:5:VAL:HG23	1:IL:62:ARG:HG2	1.86	0.57
2:J:122:ILE:HG21	2:J:157:LEU:HD21	1.86	0.57
2:JF:424:ASP:HA	2:NE:339:ARG:HH22	1.68	0.57
1:JM:331:LEU:O	1:JM:335:ASN:ND2	2.37	0.57
2:K:195:LEU:HD11	2:K:264:ARG:HG2	1.86	0.57
1:KC:121:ARG:O	1:KC:125:GLU:HG3	2.05	0.57
2:LD:408:TYR:HB3	2:LD:413:MET:HE2	1.86	0.57
1:LE:323:THR:HG22	2:LF:223:SER:HA	1.86	0.57
1:LE:334:GLN:HE22	1:LE:348:ASN:HB2	1.69	0.57
1:LI:231:ALA:HB2	23:1E:161:LEU:HD22	1.86	0.57
1:LI:279:GLN:HE21	23:1E:147:ALA:HB3	1.68	0.57
2:LN:291:ILE:O	2:LN:295:VAL:HG23	2.03	0.57
1:MD:360:GLY:HA2	23:1A:155:ARG:HB3	1.85	0.57
2:MG:231:ILE:O	2:MG:235:VAL:HG23	2.04	0.57
1:MN:66:MET:HE3	1:MN:147:MET:HE2	1.85	0.57
1:MN:113:ILE:HG13	1:MN:117:LEU:HD23	1.86	0.57
2:NC:122:ILE:HG21	2:NC:157:LEU:HD21	1.87	0.57
1:NF:290:THR:HG21	1:NF:329:GLN:HB3	1.85	0.57
2:NG:103:TYR:HB3	2:NG:408:TYR:HE2	1.70	0.57
2:NI:33:ASP:OD1	2:NI:34:GLY:N	2.37	0.57
1:O:60:VAL:HG21	1:O:86:ARG:HG3	1.86	0.57
2:OC:60:LYS:HZ1	41:2k:194:ARG:HH11	0.58	0.57
1:OH:91:ILE:HD11	1:OH:119:VAL:HG21	1.84	0.57
1:OH:290:THR:HB	1:OH:329:GLN:HE21	1.68	0.57
2:OM:90:GLU:HG3	2:OM:91:GLN:H	1.67	0.57
2:OM:175:PRO:HD2	2:OM:207:GLU:OE2	2.05	0.57
2:OM:405:VAL:HG23	2:OM:418:PHE:HE2	1.69	0.57
1:PF:331:LEU:HD11	2:PG:176:GLN:HB3	1.85	0.57
2:PK:238:LEU:HD21	2:PK:378:ILE:HG13	1.87	0.57
1:PL:122:LYS:NZ	1:QK:291:GLN:OE1	2.25	0.57
2:QB:9:ILE:HD13	2:QB:150:GLY:HA2	1.86	0.57
1:RA:316:LEU:HD23	1:RA:352:SER:HB2	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:11:GLN:HA	1:S:72:THR:HG21	1.87	0.57
2:SA:212:LEU:HD13	2:SA:300:GLY:HA2	1.86	0.57
1:SD:350:LYS:HA	2:SE:179:THR:O	2.04	0.57
2:SG:120:ASP:O	2:SG:124:LYS:HG2	2.04	0.57
1:SH:169:VAL:HA	1:SH:202:ILE:HB	1.85	0.57
1:SH:251:ARG:NH1	2:SI:97:GLU:OE2	2.37	0.57
1:SH:392:LYS:NZ	1:SH:405:GLU:OE2	2.37	0.57
2:SK:101:ASN:HD22	2:SK:143:GLY:HA2	1.69	0.57
1:TB:328:GLU:HB3	61:3w:191:PHE:HE1	1.69	0.57
2:UA:291:ILE:O	2:UA:295:VAL:HG23	2.03	0.57
1:UH:417:ASP:OD2	1:UH:418:LEU:N	2.37	0.57
2:UI:204:LEU:HD23	2:UI:270:THR:HG21	1.86	0.57
2:UK:3:GLU:HA	2:UK:51:THR:HA	1.85	0.57
2:VA:301:MET:HG2	2:VA:303:THR:H	1.69	0.57
2:VG:237:SER:HA	2:VG:320:ARG:HD2	1.86	0.57
1:VJ:91:ILE:HD11	1:VJ:119:VAL:HG21	1.86	0.57
2:WG:195:LEU:HD11	2:WG:428:LEU:HD22	1.86	0.57
1:WJ:68:LEU:HD12	1:WJ:97:ALA:HB2	1.86	0.57
2:WK:209:ILE:HG23	2:WK:230:LEU:HD23	1.86	0.57
1:WL:232:VAL:HG11	1:WL:268:MET:HG3	1.86	0.57
9:0N:106:LEU:HD22	9:0N:135:VAL:HG21	1.86	0.57
10:0R:71:ARG:NH1	11:0U:321:ASP:OD1	2.37	0.57
14:0c:244:TYR:HB2	14:0c:247:ARG:HH21	1.68	0.57
14:0c:293:MET:HB3	14:0c:334:LEU:HD21	1.87	0.57
14:0c:326:THR:O	14:0c:330:ILE:HG12	2.04	0.57
17:0n:169:ARG:HA	17:0n:172:VAL:HG22	1.85	0.57
19:0r:197:VAL:HG11	47:3D:11:PHE:HD2	1.68	0.57
20:0t:117:ALA:HB3	20:0t:140:PRO:HB2	1.86	0.57
24:1H:561:LEU:HB2	24:1H:597:VAL:HG23	1.85	0.57
24:1I:30:ARG:NH1	40:2Z:367:ARG:O	2.36	0.57
24:1K:479:ARG:HH12	24:1K:483:GLU:HB2	1.69	0.57
28:1V:10:LEU:HA	28:1V:21:ARG:HD2	1.86	0.57
41:2e:137:VAL:HG13	41:2f:475:ILE:HG21	1.86	0.57
41:2e:262:ARG:HE	41:2e:266:LEU:CD2	2.17	0.57
41:2o:403:ALA:HA	41:2o:406:ARG:HG2	1.84	0.57
43:2t:274:HIS:HB3	43:2t:277:VAL:HG12	1.85	0.57
44:2v:244:GLY:HA2	49:3P:395:THR:HG23	1.85	0.57
44:2w:10:TYR:HA	44:2w:15:ARG:HD3	1.85	0.57
57:3f:30:ARG:HA	57:3f:33:LYS:HB3	1.86	0.57
1:A:152:ILE:HD11	1:A:164:MET:HG2	1.85	0.57
2:AC:406:HIS:HA	2:AC:409:VAL:HG12	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AI:335:ILE:HG23	2:AI:341:ILE:HD11	1.86	0.57
1:AN:173:PRO:HD2	1:AN:380:ARG:NH2	2.19	0.57
1:BF:10:GLY:O	1:BF:14:ASN:ND2	2.37	0.57
1:BH:11:GLN:NE2	69:BH:500:GDP:O2A	2.33	0.57
1:BH:327:ASP:OD1	1:BH:328:GLU:N	2.37	0.57
1:BN:241:ARG:HG3	1:BN:242:PHE:CD2	2.40	0.57
2:C:26:LEU:HD13	2:C:364:PRO:HD2	1.85	0.57
1:CA:215:LEU:HB3	1:CA:217:LEU:HD13	1.86	0.57
2:CD:217:LEU:HD12	16:0k:441:ARG:NH2	2.18	0.57
1:CE:238:CYS:HB2	1:CE:318:ARG:HH11	1.68	0.57
1:CI:253:LEU:HD21	1:CI:316:LEU:HD21	1.86	0.57
2:CL:132:LEU:O	2:CL:164:LYS:NZ	2.32	0.57
2:DF:116:ASP:OD1	2:DF:117:LEU:N	2.36	0.57
1:DG:10:GLY:O	1:DG:14:ASN:ND2	2.37	0.57
1:DM:43:GLN:HG2	1:DM:44:LEU:HD12	1.85	0.57
1:EB:215:LEU:HB3	1:EB:217:LEU:HD13	1.86	0.57
1:EB:245:GLN:OE1	1:EB:323:THR:OG1	2.22	0.57
2:EC:373:ARG:HH22	26:1Q:413:LYS:HE2	1.68	0.57
2:EI:258:ASN:HD22	1:EJ:179:VAL:HG22	1.69	0.57
2:EI:420:GLU:HA	2:EI:423:GLU:OE2	2.04	0.57
1:EJ:404:ASP:OD1	1:EJ:405:GLU:N	2.37	0.57
1:F:148:GLY:O	1:F:152:ILE:HG12	2.05	0.57
1:FF:10:GLY:O	1:FF:14:ASN:ND2	2.37	0.57
2:FI:123:ARG:HH12	59:4P:12:ASP:HB2	1.68	0.57
2:FI:209:ILE:HG23	2:FI:230:LEU:HD23	1.87	0.57
2:GA:139:HIS:CE1	2:GA:170:THR:HG22	2.40	0.57
1:GF:101:TRP:CD1	1:GF:145:SER:HG	2.22	0.57
2:GK:142:GLY:HA2	2:GK:183:GLU:HG3	1.86	0.57
1:GL:91:ILE:HD12	1:GL:116:VAL:HG22	1.85	0.57
2:HE:301:MET:HE1	2:HE:307:PRO:HG3	1.85	0.57
1:HH:379:ARG:HH21	1:HH:423:GLN:HE22	1.51	0.57
1:HJ:304:ASP:OD1	1:HJ:306:ARG:NH2	2.26	0.57
1:I:345:ILE:O	1:I:348:ASN:ND2	2.37	0.57
1:IF:322:SER:OG	1:IF:324:LYS:NZ	2.36	0.57
2:II:270:THR:HG23	2:II:302:LEU:HB2	1.85	0.57
2:JB:212:LEU:HD21	2:JB:275:VAL:HG11	1.87	0.57
1:JG:35:THR:HG23	1:JG:37:GLN:HE22	1.69	0.57
1:JK:46:ARG:NH2	2:JL:76:ASP:OD2	2.37	0.57
1:JM:324:LYS:HE2	2:JN:222:PRO:HG2	1.85	0.57
2:KL:258:ASN:OD1	1:KM:179:VAL:HG22	2.04	0.57
2:KN:205:ASP:OD1	2:KN:206:ASN:N	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:37:PRO:HB3	44:2v:404:LYS:HD2	1.86	0.57
1:M:171:PRO:HB2	1:M:181:GLU:OE2	2.04	0.57
1:MF:245:GLN:HE21	2:MG:224:TYR:HB2	1.69	0.57
1:MJ:197:ASP:OD1	1:MJ:198:GLU:N	2.36	0.57
1:ML:15:GLN:NE2	69:ML:500:GDP:O6	2.37	0.57
1:NH:326:VAL:HG11	1:NH:353:ILE:HD11	1.86	0.57
2:NM:426:ALA:HB1	2:NM:430:LYS:HZ3	1.68	0.57
1:O:377:MET:HA	1:O:380:ARG:HG2	1.85	0.57
2:OA:11:GLN:O	2:OA:15:GLN:HG3	2.04	0.57
2:OG:240:ALA:HA	2:OG:243:ARG:HB2	1.85	0.57
2:OI:213:THR:HA	2:OI:217:LEU:HD23	1.87	0.57
1:OL:91:ILE:HD11	1:OL:119:VAL:HG21	1.85	0.57
1:OL:128:ASP:OD1	1:OL:129:CYS:N	2.36	0.57
1:OL:396:HIS:HA	1:OL:399:THR:HG22	1.86	0.57
1:P:204:ASN:OD1	69:P:500:GDP:N2	2.33	0.57
2:PA:172:TYR:CD2	2:PA:203:MET:HG3	2.38	0.57
2:PC:257:THR:HG1	1:PD:397:TRP:CD1	2.23	0.57
2:PC:396:ASP:OD2	2:PC:422:ARG:NH2	2.37	0.57
1:PJ:246:LEU:HD11	2:PK:179:THR:HG21	1.85	0.57
1:QK:172:SER:OG	1:QK:205:GLU:OE1	2.18	0.57
2:R:318:MET:HB2	2:R:376:CYS:HB3	1.86	0.57
2:RF:326:LYS:HD3	1:RG:220:PRO:HG2	1.86	0.57
1:RI:267:MET:SD	1:RI:301:GLN:NE2	2.72	0.57
2:RJ:1:MET:N	2:RJ:3:GLU:OE2	2.36	0.57
2:RL:31:GLN:HG3	28:1Y:162:LEU:HD13	1.85	0.57
2:RL:71:GLU:HB3	2:RL:98:ASP:HB3	1.87	0.57
2:RL:174:SER:HB2	2:RL:207:GLU:HG3	1.85	0.57
2:RL:286:LEU:O	2:RL:373:ARG:NH2	2.37	0.57
2:SC:122:ILE:HG21	2:SC:157:LEU:HD21	1.86	0.57
1:SD:49:VAL:HG11	1:SD:241:ARG:HG2	1.85	0.57
1:SJ:267:MET:HE1	1:SJ:371:ASN:HB2	1.85	0.57
1:T:163:ILE:HG21	1:T:250:LEU:HB3	1.87	0.57
1:T:232:VAL:HG11	1:T:268:MET:SD	2.43	0.57
1:TB:294:PHE:HE1	1:TB:333:VAL:HG11	1.69	0.57
2:TI:293:ASN:O	2:TI:297:GLU:HG2	2.04	0.57
1:UF:8:GLN:NE2	1:UF:21:TRP:HE1	2.02	0.57
1:V:186:THR:HG22	1:V:415:MET:HE1	1.86	0.57
1:V:350:LYS:NZ	2:VA:181:VAL:H	2.01	0.57
1:V:385:PHE:CE2	1:V:412:GLU:HB3	2.39	0.57
2:VA:52:PHE:HE2	2:VA:243:ARG:HH11	1.52	0.57
1:VF:392:LYS:HD2	1:VF:395:LEU:HD23	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VH:66:MET:HE3	1:VH:151:LEU:HD22	1.85	0.57
1:VJ:61:PRO:HD3	1:VJ:84:LEU:HG	1.85	0.57
2:VM:11:GLN:N	71:VM:501:GTP:O2B	2.37	0.57
2:VM:117:LEU:HD21	2:VM:121:ARG:HE	1.70	0.57
1:WH:332:ASN:HB3	1:WH:336:LYS:HZ1	1.68	0.57
2:WM:333:ALA:O	2:WM:337:THR:HG23	2.04	0.57
5:XN:130:THR:HG22	5:XN:132:PHE:H	1.69	0.57
4:XQ:90:ARG:HH22	4:XQ:100:LYS:HE2	1.69	0.57
7:0C:372:PHE:HZ	17:0m:50:LEU:HB2	1.68	0.57
8:0H:454:ILE:HA	8:0H:457:ARG:HE	1.69	0.57
9:0N:412:GLN:HG3	9:0N:442:SER:HB3	1.86	0.57
12:0W:157:ARG:NH1	12:0W:158:LYS:O	2.37	0.57
17:0n:8:ALA:O	17:0n:12:ARG:HG2	2.03	0.57
24:1H:647:ARG:NH2	24:1H:648:MET:HE2	2.19	0.57
24:1I:309:ILE:HG21	24:1I:351:LEU:HG	1.85	0.57
24:1J:342:ASP:O	24:1J:347:ASN:ND2	2.37	0.57
24:1K:120:LEU:HD22	24:1K:131:VAL:HG22	1.86	0.57
22:1x:96:ARG:HB3	22:1x:128:ARG:HD3	1.87	0.57
41:2i:351:ARG:HA	41:2i:354:LYS:HG2	1.86	0.57
46:3B:27:LEU:HD22	46:3B:91:ASN:HD22	1.68	0.57
57:3f:39:GLU:OE1	57:3f:42:ARG:NH2	2.38	0.57
64:5B:227:ARG:NH2	65:5G:227:ASP:OD1	2.37	0.57
65:5I:83:TYR:OH	65:5I:87:LYS:HD3	2.05	0.57
66:5K:171:ASN:ND2	66:5K:187:SER:O	2.37	0.57
68:5S:86:GLN:NE2	68:5S:101:ASN:OD1	2.37	0.57
1:AB:2:ARG:NH1	2:AC:71:GLU:OE2	2.38	0.57
1:AD:75:SER:HA	27:1S:172:LYS:HE2	1.85	0.57
1:AF:291:GLN:NE2	4:XO:99:GLU:OE2	2.38	0.57
2:BC:399:TYR:OH	2:BC:415:GLU:OE2	2.22	0.57
1:BL:43:GLN:O	1:BL:47:ILE:HB	2.04	0.57
2:BM:11:GLN:N	71:BM:501:GTP:O2B	2.35	0.57
1:BN:238:CYS:HB2	1:BN:318:ARG:HH11	1.68	0.57
2:C:24:PHE:HA	2:C:27:GLU:HG2	1.86	0.57
2:C:44:VAL:H	24:1H:277:TYR:HE2	1.53	0.57
2:C:79:ARG:HH12	2:C:92:LEU:HB2	1.68	0.57
2:CJ:3:GLU:HA	2:CJ:51:THR:HA	1.85	0.57
1:CM:111:GLU:HG2	1:CM:112:LEU:HD22	1.87	0.57
2:D:258:ASN:HD22	2:D:352:LYS:HB2	1.70	0.57
2:DF:247:ALA:O	1:DG:11:GLN:NE2	2.37	0.57
2:DH:53:PHE:HB3	2:DH:61:HIS:HB3	1.87	0.57
2:DL:318:MET:O	2:DL:375:VAL:HA	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ED:167:PHE:CE1	1:ED:233:MET:HG2	2.39	0.57
1:ED:207:LEU:HD21	1:ED:300:MET:HE3	1.86	0.57
2:EG:71:GLU:HB3	2:EG:98:ASP:HB3	1.86	0.57
1:EH:101:TRP:HE3	1:EH:403:MET:HE1	1.70	0.57
1:EH:346:PRO:O	2:EI:394:LYS:NZ	2.33	0.57
1:EJ:65:LEU:HB2	1:EJ:73:MET:HE1	1.84	0.57
2:FE:390:ARG:O	2:FE:394:LYS:HG3	2.04	0.57
1:FF:259:PRO:HG3	1:FF:311:LEU:HD12	1.85	0.57
2:FG:237:SER:HA	2:FG:320:ARG:HD2	1.85	0.57
1:FJ:316:LEU:HD13	1:FJ:352:SER:HB2	1.85	0.57
1:G:45:GLU:C	1:G:46:ARG:HD2	2.30	0.57
2:GA:3:GLU:HB2	2:GA:132:LEU:HA	1.86	0.57
1:GD:296:ALA:HB1	1:GD:305:PRO:HD2	1.86	0.57
1:GF:331:LEU:HD13	2:GG:177:VAL:HG12	1.86	0.57
1:GJ:190:HIS:HB2	1:GJ:414:ASN:HD22	1.68	0.57
1:GJ:272:PRO:HD2	1:GJ:361:LEU:HD13	1.85	0.57
2:IA:178:SER:OG	2:IA:183:GLU:OE1	2.22	0.57
2:IA:288:VAL:HB	2:IA:327:ASP:HB3	1.86	0.57
1:IB:313:ALA:HB3	1:IB:349:ILE:HG12	1.87	0.57
2:IM:209:ILE:HD13	2:IM:302:LEU:HD12	1.87	0.57
2:JF:251:ASP:H	2:JF:254:GLU:HB3	1.70	0.57
1:JM:327:ASP:HB3	2:JN:177:VAL:HG13	1.86	0.57
2:KB:286:LEU:O	2:KB:373:ARG:NH1	2.37	0.57
2:KF:254:GLU:O	2:KF:258:ASN:ND2	2.37	0.57
1:KK:8:GLN:HG2	1:KK:17:GLY:HA3	1.86	0.57
2:KL:69:ASP:OD2	2:KL:70:LEU:N	2.37	0.57
2:L:90:GLU:HB2	2:L:121:ARG:NH1	2.20	0.57
2:LN:170:THR:HG21	2:LN:194:LEU:HD21	1.86	0.57
1:MD:414:ASN:ND2	5:XN:83:GLY:O	2.37	0.57
2:MG:26:LEU:HD22	2:MG:363:VAL:HG12	1.85	0.57
1:MH:258:VAL:HB	2:MI:407:TRP:HE1	1.70	0.57
1:MH:406:MET:HB3	32:2C:78:TYR:CE2	2.39	0.57
2:MM:430:LYS:HB2	14:0d:239:GLY:O	2.04	0.57
2:NA:413:MET:HB2	2:NA:417:GLU:HG3	1.84	0.57
1:NF:289:LEU:HD12	1:NF:365:VAL:HG12	1.85	0.57
2:NM:311:LYS:N	2:NM:382:THR:OG1	2.37	0.57
1:OB:245:GLN:OE1	28:1g:186:ASN:ND2	2.29	0.57
1:OD:66:MET:SD	1:OD:116:VAL:HG21	2.45	0.57
2:OE:70:LEU:HD12	2:OE:99:ALA:HB2	1.85	0.57
2:OI:212:LEU:HD21	2:OI:275:VAL:HG11	1.86	0.57
1:OL:245:GLN:HB2	1:OL:353:ILE:HB	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OM:338:LYS:HE3	2:OM:340:THR:HB	1.85	0.57
1:PB:226:ASN:OD1	69:PB:500:GDP:N1	2.29	0.57
2:PG:44:VAL:O	39:2X:32:ARG:NH2	2.37	0.57
2:PM:209:ILE:HD11	2:PM:230:LEU:HB2	1.86	0.57
2:Q:2:ARG:HH12	1:QA:69:GLU:HG3	1.69	0.57
2:Q:352:LYS:HA	1:QA:177:ASP:C	2.29	0.57
1:QE:235:GLY:HA3	1:QE:366:THR:HG21	1.86	0.57
1:QG:236:VAL:HG13	1:QG:237:THR:HG23	1.86	0.57
1:RK:135:LEU:HG	1:RK:152:ILE:HD11	1.86	0.57
2:RL:437:ALA:HA	57:3i:97:LYS:HG3	1.85	0.57
1:SD:206:ALA:O	1:SD:210:ILE:HG12	2.05	0.57
1:SF:49:VAL:HG11	1:SF:241:ARG:HG2	1.87	0.57
2:SG:240:ALA:HA	2:SG:243:ARG:HE	1.69	0.57
1:SH:63:ALA:O	1:SH:89:ASN:ND2	2.36	0.57
1:SH:232:VAL:HG23	1:SH:366:THR:HB	1.86	0.57
1:SJ:189:VAL:HG21	1:SJ:415:MET:HE2	1.84	0.57
1:T:8:GLN:HG3	1:T:14:ASN:HA	1.87	0.57
1:TD:86:ARG:HG2	1:UD:281:TYR:HB3	1.86	0.57
1:TD:119:VAL:HG13	1:TD:122:LYS:HE3	1.86	0.57
1:TF:272:PRO:HD3	1:TF:364:SER:HA	1.86	0.57
1:UB:173:PRO:HG3	1:UB:384:GLN:HE22	1.68	0.57
1:UL:22:GLU:HG2	1:UL:81:TYR:HD2	1.69	0.57
1:VD:203:ASP:OD1	1:VD:204:ASN:N	2.38	0.57
2:VG:340:THR:O	62:4B:272:PRO:C	2.47	0.57
1:W:159:TYR:HB3	1:W:162:ARG:HG3	1.86	0.57
2:WA:104:ALA:HB2	2:WA:413:MET:HE3	1.87	0.57
2:WG:257:THR:HG1	1:WH:397:TRP:CD1	2.22	0.57
1:WJ:207:LEU:HB3	1:WJ:225:LEU:HD22	1.86	0.57
1:WJ:226:ASN:OD1	69:WJ:500:GDP:N1	2.25	0.57
9:0L:122:TYR:CE2	9:0L:136:LEU:HD11	2.39	0.57
16:0l:951:LEU:O	16:0l:955:ALA:HB2	2.05	0.57
20:0t:196:PRO:HG3	20:0t:214:ARG:HH22	1.69	0.57
21:0v:67:GLN:HG2	21:0v:69:ALA:H	1.68	0.57
31:1q:153:PHE:CE2	48:3F:107:VAL:HG21	2.40	0.57
31:1q:166:MET:HE2	31:1q:166:MET:HA	1.86	0.57
22:1x:57:TYR:OH	35:2N:232:PRO:O	2.22	0.57
33:2H:62:THR:HG22	33:2H:64:LYS:H	1.68	0.57
33:2I:53:LYS:HE3	33:2I:55:PHE:HE1	1.68	0.57
34:2L:140:MET:HA	34:2L:143:ASP:OD1	2.04	0.57
41:2c:352:ARG:HH21	41:2c:355:ASN:ND2	2.03	0.57
55:3b:25:ARG:HA	55:3b:28:GLU:HG3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:31:ASP:OD2	1:A:37:GLN:NE2	2.23	0.57
1:AB:24:ILE:HG12	1:AB:50:TYR:HD2	1.68	0.57
2:AC:1:MET:N	2:AC:3:GLU:OE2	2.38	0.57
2:AC:402:ARG:HG3	4:XM:302:SER:HA	1.87	0.57
2:AE:212:LEU:HD21	2:AE:275:VAL:HG11	1.86	0.57
1:AF:46:ARG:NH2	2:AG:76:ASP:OD2	2.37	0.57
2:AG:204:LEU:HD12	2:AG:231:ILE:HG12	1.86	0.57
1:AJ:131:GLN:HA	1:AJ:162:ARG:HH21	1.69	0.57
2:AK:26:LEU:HD22	2:AK:363:VAL:HG12	1.86	0.57
1:BB:28:HIS:HA	1:BB:43:GLN:HG2	1.84	0.57
2:BE:67:PHE:HB2	2:BE:92:LEU:HD12	1.86	0.57
2:BE:392:ASP:HB3	2:BE:425:LEU:HD23	1.87	0.57
1:CA:240:LEU:HD11	1:CA:249:ASP:HA	1.85	0.57
2:CB:114:ILE:HD12	2:CB:117:LEU:HD21	1.86	0.57
1:CG:276:ARG:HH22	25:1O:346:ARG:CZ	2.17	0.57
2:CJ:90:GLU:HB3	2:DJ:280:LYS:NZ	2.19	0.57
2:CJ:295:VAL:HG21	2:CJ:375:VAL:HG13	1.85	0.57
1:CK:207:LEU:HD21	1:CK:300:MET:HE3	1.85	0.57
1:DA:204:ASN:OD1	69:DA:500:GDP:O2'	2.17	0.57
2:DH:254:GLU:O	2:DH:258:ASN:ND2	2.38	0.57
2:DJ:335:ILE:HG23	2:DJ:341:ILE:HD11	1.86	0.57
2:DL:417:GLU:HA	2:DL:420:GLU:HG2	1.86	0.57
1:DM:304:ASP:OD2	1:DM:307:HIS:ND1	2.37	0.57
1:E:215:LEU:HD21	1:E:273:LEU:HD22	1.86	0.57
2:EK:53:PHE:HB3	2:EK:61:HIS:HB3	1.86	0.57
2:FA:298:PRO:HB3	2:FA:307:PRO:HD2	1.86	0.57
2:FE:116:ASP:OD1	2:FE:117:LEU:N	2.38	0.57
2:FE:364:PRO:HB2	28:4W:85:LEU:HA	1.86	0.57
1:FF:61:PRO:HD3	1:FF:84:LEU:HG	1.86	0.57
1:G:191:GLN:O	1:G:195:ASN:ND2	2.33	0.57
2:GE:75:VAL:HG21	2:GE:94:SER:HB2	1.86	0.57
1:GJ:65:LEU:HB3	1:GJ:73:MET:HE1	1.85	0.57
1:H:68:LEU:HD13	1:H:93:GLY:HA3	1.87	0.57
2:HI:85:GLN:HA	2:HI:85:GLN:NE2	2.18	0.57
2:HM:90:GLU:HB2	2:HM:121:ARG:NH1	2.19	0.57
1:IB:322:SER:OG	1:IB:325:GLU:OE1	2.23	0.57
1:ID:237:THR:OG1	1:ID:241:ARG:NH1	2.37	0.57
1:ID:375:GLN:HB3	1:ID:422:TYR:HB3	1.86	0.57
1:IH:86:ARG:HG3	2:JH:283:HIS:HB3	1.86	0.57
2:II:39:ASP:OD1	2:II:40:LYS:NZ	2.36	0.57
2:II:257:THR:HG1	1:IJ:397:TRP:CD1	2.22	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KF:173:PRO:HG3	2:KF:183:GLU:HG2	1.86	0.57
1:KI:137:HIS:NE2	1:KI:166:THR:OG1	2.37	0.57
2:KJ:339:ARG:HD3	18:0p:216:ARG:HE	1.69	0.57
1:KM:19:LYS:HZ3	1:KM:227:HIS:HB2	1.69	0.57
1:LA:208:TYR:CZ	1:LA:225:LEU:HD11	2.39	0.57
1:LA:267:MET:CE	1:LA:301:GLN:HE21	2.17	0.57
1:LC:161:ASP:OD1	13:0Y:67:HIS:ND1	2.37	0.57
1:LG:27:GLU:OE1	1:LG:241:ARG:NH2	2.37	0.57
2:LJ:194:LEU:O	2:LJ:198:THR:HB	2.04	0.57
1:LK:167:PHE:CE2	1:LK:200:MET:HG2	2.39	0.57
1:M:166:THR:HB	1:M:199:SER:HA	1.87	0.57
1:M:175:VAL:HG21	1:M:204:ASN:HB2	1.87	0.57
2:MA:308:ARG:NH2	33:2F:167:PRO:O	2.37	0.57
1:MF:316:LEU:HD23	1:MF:352:SER:HB3	1.85	0.57
1:ML:207:LEU:HD13	1:ML:225:LEU:HB3	1.85	0.57
1:NB:67:ASP:OD1	1:NB:68:LEU:N	2.36	0.57
1:ND:9:ALA:HB3	1:ND:137:HIS:HB3	1.87	0.57
1:NH:102:ALA:HB2	1:NH:403:MET:HE2	1.85	0.57
2:NK:90:GLU:HG2	2:NK:91:GLN:OE1	2.05	0.57
1:NL:54:SER:O	41:2o:157:ARG:NH2	2.38	0.57
2:OC:5:ILE:HD12	2:OC:125:LEU:HD23	1.84	0.57
2:OM:17:GLY:HA2	2:OM:20:CYS:SG	2.45	0.57
2:OM:49:PHE:HD2	2:OM:53:PHE:HB2	1.70	0.57
2:OM:265:ILE:HG22	2:OM:380:ASN:HD21	1.70	0.57
2:OM:280:LYS:O	2:OM:284:GLU:HB3	2.03	0.57
2:PA:258:ASN:ND2	2:PA:352:LYS:HD3	2.19	0.57
2:PC:53:PHE:HB3	2:PC:61:HIS:HB3	1.87	0.57
2:PE:326:LYS:NZ	1:PF:220:PRO:O	2.37	0.57
1:PH:388:MET:HE3	1:PH:394:PHE:HD2	1.69	0.57
1:QK:164:MET:HB3	1:QK:197:ASP:H	1.70	0.57
2:R:204:LEU:HD23	2:R:231:ILE:HD13	1.85	0.57
1:RC:295:ASP:OD2	1:RC:297:LYS:HG2	2.03	0.57
1:RG:276:ARG:NH2	41:2e:288:ASN:OD1	2.35	0.57
1:RG:290:THR:HG21	1:RG:329:GLN:HB3	1.86	0.57
1:S:309:ARG:H	1:S:372:THR:HG22	1.69	0.57
2:SA:53:PHE:HB3	2:SA:61:HIS:HB3	1.87	0.57
1:SF:121:ARG:NH1	1:SF:158:GLU:OE2	2.33	0.57
1:SJ:211:CYS:HA	1:SJ:215:LEU:HB2	1.86	0.57
2:SK:53:PHE:HB3	2:SK:61:HIS:HB3	1.87	0.57
2:TA:182:VAL:HG22	2:TA:185:TYR:HB2	1.87	0.57
2:TA:392:ASP:HB3	2:TA:425:LEU:HD23	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:TC:116:ASP:OD1	2:TC:117:LEU:N	2.37	0.57
1:UF:113:ILE:HG13	1:UF:117:LEU:HD23	1.86	0.57
1:UF:172:SER:OG	1:UF:380:ARG:NH1	2.37	0.57
2:UG:141:VAL:HG13	2:UG:170:THR:HG21	1.86	0.57
1:UJ:62:ARG:NH1	1:UJ:127:CYS:SG	2.78	0.57
1:UJ:121:ARG:NH1	1:UJ:158:GLU:OE2	2.37	0.57
2:UK:326:LYS:NZ	1:UL:219:THR:HA	2.18	0.57
1:V:309:ARG:NH1	1:V:339:SER:O	2.37	0.57
1:VB:10:GLY:O	1:VB:14:ASN:ND2	2.37	0.57
1:VD:66:MET:HE3	1:VD:116:VAL:HG21	1.85	0.57
2:WC:216:SER:OG	2:WC:275:VAL:O	2.21	0.57
2:WG:286:LEU:O	2:WG:373:ARG:NH1	2.36	0.57
1:WJ:181:GLU:HB3	1:WJ:182:PRO:HD3	1.85	0.57
2:WK:286:LEU:O	2:WK:373:ARG:NH1	2.37	0.57
2:WM:269:LEU:HD21	2:WM:384:ILE:HG12	1.85	0.57
3:XC:102:ARG:HE	3:XC:118:ILE:HD12	1.68	0.57
5:XP:194:LEU:HD13	5:XP:201:ILE:HD13	1.86	0.57
9:0M:305:ASN:HB3	9:0M:307:TYR:HE2	1.68	0.57
11:0U:37:MET:HG2	11:0U:47:LEU:HB3	1.86	0.57
12:0W:220:CYS:SG	43:2t:161:ARG:NH2	2.77	0.57
25:1O:719:LEU:HD23	25:1O:759:ILE:HD11	1.85	0.57
27:1S:811:PHE:O	27:1S:840:ARG:NH1	2.36	0.57
42:2r:134:ASP:OD1	42:2r:138:PHE:N	2.37	0.57
44:2w:194:ARG:HG2	44:2w:213:MET:HE1	1.85	0.57
46:3B:39:LEU:HB3	46:3B:49:SER:HB3	1.86	0.57
49:3Q:403:ALA:HB1	49:3Q:493:LEU:HD11	1.85	0.57
58:3m:127:GLU:H	59:3p:114:ARG:NH2	2.01	0.57
1:A:3:GLU:HA	1:A:49:VAL:HA	1.86	0.57
2:AA:271:SER:HB2	2:AA:301:MET:HA	1.87	0.57
2:AC:332:ILE:O	2:AC:336:LYS:HG2	2.03	0.57
1:AD:423:GLN:HB3	5:XN:121:ALA:HB2	1.86	0.57
1:AL:10:GLY:O	1:AL:14:ASN:ND2	2.37	0.57
1:AL:174:ARG:HD3	1:AL:380:ARG:HH12	1.68	0.57
2:BA:365:GLY:O	16:0k:809:THR:OG1	2.23	0.57
1:BH:10:GLY:O	1:BH:14:ASN:ND2	2.37	0.57
1:DC:139:LEU:HG	1:DC:168:SER:HB2	1.87	0.57
1:E:112:LEU:HD22	1:E:147:MET:HE1	1.84	0.57
1:E:204:ASN:OD1	69:E:500:GDP:N2	2.38	0.57
1:ED:229:VAL:O	1:ED:233:MET:HG3	2.04	0.57
1:FB:252:LYS:HE3	1:FB:350:LYS:NZ	2.20	0.57
1:FF:99:ASN:HD21	1:FF:178:THR:HG23	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GB:226:ASN:HA	1:GB:229:VAL:HG12	1.86	0.57
2:GC:179:THR:HG21	71:GC:501:GTP:H5'	1.87	0.57
2:GE:174:SER:HB2	2:GE:207:GLU:HG3	1.85	0.57
1:GJ:253:LEU:HD11	1:GJ:316:LEU:HD21	1.85	0.57
1:H:263:LEU:HB3	1:H:370:ASN:HD21	1.70	0.57
1:HB:46:ARG:HH12	38:2U:248:GLY:HA2	1.69	0.57
1:HH:404:ASP:OD1	1:HH:405:GLU:N	2.34	0.57
1:IH:323:THR:HG22	2:II:223:SER:HA	1.86	0.57
2:IK:51:THR:HG21	2:IK:243:ARG:HG2	1.85	0.57
1:IL:280:GLN:C	1:IL:280:GLN:HE21	2.13	0.57
1:JA:156:ARG:HH21	1:JA:164:MET:HB2	1.69	0.57
2:JD:365:GLY:HA3	15:0f:108:VAL:HG11	1.87	0.57
2:JF:122:ILE:HD13	2:JF:157:LEU:HD21	1.87	0.57
2:JN:90:GLU:OE2	2:JN:121:ARG:NE	2.37	0.57
2:K:238:LEU:HD12	2:K:318:MET:HE2	1.85	0.57
1:KC:22:GLU:HA	1:KC:81:TYR:HE2	1.70	0.57
1:KG:229:VAL:HG22	1:KG:300:MET:HE1	1.86	0.57
1:KG:362:LYS:HG2	1:KG:363:MET:HG2	1.86	0.57
2:KL:257:THR:HA	1:KM:397:TRP:CE2	2.39	0.57
2:LB:241:SER:HB2	2:LB:250:VAL:H	1.70	0.57
1:LC:2:ARG:N	1:LC:129:CYS:O	2.37	0.57
1:LE:113:ILE:HG13	1:LE:117:LEU:HD23	1.86	0.57
1:LE:129:CYS:HB2	2:LF:96:LYS:HE3	1.87	0.57
1:LE:291:GLN:HE22	35:2N:217:GLY:HA3	1.69	0.57
1:LG:322:SER:OG	2:LH:222:PRO:O	2.23	0.57
2:LH:271:SER:HB3	2:LH:301:MET:HG3	1.85	0.57
2:MC:335:ILE:HG13	2:MC:341:ILE:HD11	1.85	0.57
1:MD:313:ALA:HB1	1:MD:367:PHE:HE1	1.70	0.57
2:ME:254:GLU:HA	1:MF:98:GLY:HA2	1.86	0.57
2:MK:203:MET:HA	2:MK:203:MET:HE3	1.86	0.57
2:MK:326:LYS:HE2	1:ML:219:THR:HA	1.87	0.57
1:N:5:VAL:HG23	1:N:62:ARG:HG2	1.87	0.57
1:NL:190:HIS:HB2	1:NL:414:ASN:HD22	1.68	0.57
1:OB:66:MET:SD	1:OB:151:LEU:HD22	2.45	0.57
1:OD:163:ILE:HG21	1:OD:250:LEU:HB3	1.87	0.57
1:OD:345:ILE:HG23	2:OE:398:MET:HE1	1.86	0.57
2:OE:265:ILE:HG22	2:OE:380:ASN:HD21	1.68	0.57
1:OF:375:GLN:NE2	1:OF:426:GLN:OE1	2.37	0.57
1:OJ:312:THR:HG21	2:OK:404:PHE:HZ	1.70	0.57
2:OK:26:LEU:HA	28:1h:123:PRO:HB3	1.87	0.57
1:P:347:ASN:ND2	2:PA:178:SER:H	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PE:103:TYR:HB3	2:PE:408:TYR:HE1	1.69	0.57
2:QH:26:LEU:HD12	2:QH:363:VAL:HG12	1.86	0.57
2:QH:171:VAL:HG12	2:QH:204:LEU:HB2	1.85	0.57
2:QJ:269:LEU:HD21	2:QJ:384:ILE:HG12	1.87	0.57
2:R:159:VAL:HG21	57:3f:130:TYR:HD2	1.69	0.57
2:RH:155:GLU:HG2	2:RH:197:HIS:CE1	2.40	0.57
2:RH:158:SER:HB2	2:RH:197:HIS:HD2	1.69	0.57
2:RH:170:THR:HG21	2:RH:194:LEU:HD21	1.87	0.57
1:RI:200:MET:HB3	1:RI:268:MET:SD	2.45	0.57
1:S:10:GLY:O	1:S:14:ASN:ND2	2.36	0.57
1:S:143:THR:OG1	69:S:500:GDP:O2B	2.18	0.57
1:SD:260:PHE:HB2	1:SD:263:LEU:HD13	1.86	0.57
1:SF:178:THR:HB	1:SF:181:GLU:HB2	1.87	0.57
2:SG:326:LYS:HE2	1:SH:220:PRO:HD2	1.86	0.57
2:SI:406:HIS:HA	2:SI:409:VAL:HG22	1.87	0.57
1:SJ:206:ALA:O	1:SJ:210:ILE:HG12	2.04	0.57
2:SK:265:ILE:HG22	2:SK:380:ASN:HD21	1.70	0.57
2:TA:308:ARG:HG2	61:3w:154:ILE:HD11	1.87	0.57
2:TC:224:TYR:HA	2:TC:227:VAL:HG22	1.87	0.57
2:TC:259:LEU:HD23	2:TC:380:ASN:HD21	1.68	0.57
1:TF:139:LEU:HG	1:TF:168:SER:HB2	1.87	0.57
2:TG:53:PHE:HB3	2:TG:61:HIS:HB3	1.86	0.57
1:V:242:PHE:HB3	1:V:356:ILE:HD13	1.87	0.57
1:VB:301:GLN:NE2	1:VB:377:MET:SD	2.75	0.57
2:VG:306:ASP:OD2	62:4B:269:MET:HE1	2.03	0.57
2:VG:328:VAL:O	2:VG:332:ILE:HG12	2.05	0.57
1:VJ:336:LYS:HE3	62:4B:356:PRO:HG3	1.86	0.57
1:W:266:PHE:CE1	1:W:370:ASN:HB2	2.38	0.57
2:WC:50:ASN:O	2:WC:64:ARG:NH1	2.38	0.57
2:WC:388:PHE:HA	2:WC:391:ILE:HG22	1.85	0.57
1:WD:113:ILE:HG13	1:WD:117:LEU:HD23	1.86	0.57
1:WD:309:ARG:NH1	1:WD:339:SER:O	2.37	0.57
1:WF:198:GLU:HA	1:WF:264:HIS:HB2	1.85	0.57
2:WG:271:SER:HA	2:WG:302:LEU:HD13	1.86	0.57
1:WJ:255:VAL:HG11	2:WK:100:ALA:O	2.05	0.57
9:0M:228:LEU:HD23	9:0M:232:ASN:HA	1.86	0.57
9:0N:14:THR:HG22	9:0N:618:ILE:HB	1.86	0.57
9:0N:298:TYR:CE1	9:0N:308:PHE:HD1	2.16	0.57
9:0N:482:VAL:HG12	9:0N:513:LEU:HD21	1.87	0.57
10:0R:309:ARG:HH22	10:0R:313:GLU:HG2	1.68	0.57
10:0S:466:ASN:HB3	36:2Q:309:TYR:HE2	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:0l:904:LEU:HD21	16:0l:938:LEU:HB3	1.87	0.57
16:0k:927:THR:HG22	16:0k:930:GLN:HG2	1.85	0.57
20:0u:213:ILE:HG13	20:0u:214:ARG:H	1.69	0.57
21:0w:184:GLU:OE2	21:0w:188:ASN:ND2	2.37	0.57
23:1A:181:GLN:NE2	45:2y:219:GLU:O	2.30	0.57
23:1A:199:MET:HE1	27:1S:89:LEU:HB2	1.86	0.57
23:1B:348:ARG:NH2	24:1I:25:GLU:OE2	2.38	0.57
24:1J:657:ARG:NE	24:1J:711:GLU:OE2	2.34	0.57
29:1j:38:LYS:HE2	49:3P:416:ARG:HG2	1.85	0.57
33:2I:176:TYR:CD2	33:2I:180:PRO:HA	2.39	0.57
41:2k:221:ARG:HA	41:2k:225:LYS:HB2	1.85	0.57
42:2r:23:VAL:O	42:2r:27:VAL:HG23	2.05	0.57
44:2w:207:GLU:HA	44:2w:384:GLY:HA3	1.87	0.57
46:3B:266:ILE:HD11	46:3B:341:LEU:HB2	1.85	0.57
66:5L:33:ASN:HD21	66:5L:225:TYR:HB2	1.69	0.57
2:AA:142:GLY:HA2	2:AA:183:GLU:HG3	1.86	0.57
1:AD:320:ARG:HH22	54:3Z:340:VAL:HG11	1.70	0.57
2:AI:1:MET:N	2:AI:3:GLU:OE2	2.37	0.57
1:BB:236:VAL:HG13	1:BB:237:THR:HG23	1.85	0.57
2:BC:315:CYS:HB3	2:BC:377:MET:HE1	1.86	0.57
2:BG:237:SER:HA	2:BG:320:ARG:HH11	1.70	0.57
2:CF:75:VAL:HG21	2:CF:94:SER:HB3	1.87	0.57
1:CK:184:ASN:OD1	1:CK:398:TYR:OH	2.23	0.57
2:CL:67:PHE:HD2	2:CL:92:LEU:HD22	1.69	0.57
1:CM:310:TYR:HA	1:CM:371:ASN:HA	1.85	0.57
2:D:251:ASP:H	2:D:254:GLU:HB2	1.70	0.57
1:DE:133:PHE:HB2	1:DE:164:MET:HG3	1.86	0.57
2:DF:167:LEU:HD11	2:DF:255:PHE:HE1	1.69	0.57
2:DH:119:LEU:HD11	2:DH:156:ARG:HB3	1.86	0.57
1:DI:27:GLU:OE1	1:DI:241:ARG:NH2	2.38	0.57
1:DI:215:LEU:HB3	1:DI:217:LEU:HG	1.87	0.57
2:DJ:177:VAL:HB	2:DJ:207:GLU:HB2	1.87	0.57
2:DJ:208:ALA:HB2	2:DJ:304:LYS:HG3	1.86	0.57
1:DK:322:SER:OG	2:DL:222:PRO:O	2.23	0.57
2:EA:70:LEU:HD22	2:EA:110:ILE:HG22	1.87	0.57
1:ED:185:THR:O	1:ED:189:VAL:HG23	2.04	0.57
1:ED:248:SER:HA	1:ED:252:LYS:HD2	1.86	0.57
2:EG:328:VAL:O	2:EG:332:ILE:HG12	2.05	0.57
1:EH:272:PRO:HG3	1:EH:364:SER:HA	1.87	0.57
1:EL:256:ASN:ND2	1:EL:256:ASN:O	2.37	0.57
2:FA:123:ARG:NH2	59:4O:116:GLU:O	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FB:11:GLN:HA	1:FB:72:THR:HG21	1.86	0.57
2:FG:64:ARG:NH1	2:FG:129:CYS:SG	2.78	0.57
1:FJ:16:ILE:HD12	1:FJ:229:VAL:HG21	1.85	0.57
2:FK:3:GLU:HA	2:FK:51:THR:HA	1.87	0.57
1:GF:377:MET:HE2	1:GF:377:MET:HA	1.87	0.57
1:GL:330:MET:SD	1:GL:351:SER:HB3	2.45	0.57
2:HC:76:ASP:OD1	2:HC:77:GLU:N	2.38	0.57
1:HD:27:GLU:OE1	1:HD:241:ARG:NH2	2.37	0.57
2:HG:217:LEU:HD21	2:HG:367:ASP:HB2	1.86	0.57
1:HH:229:VAL:HA	1:HH:300:MET:HE1	1.86	0.57
1:HL:221:THR:HG23	1:HL:223:GLY:H	1.69	0.57
2:IG:259:LEU:HD11	2:IG:316:CYS:HB2	1.86	0.57
2:IK:9:ILE:HD13	2:IK:150:GLY:HA2	1.86	0.57
2:IM:70:LEU:HD22	2:IM:110:ILE:HG22	1.86	0.57
2:JB:377:MET:O	2:JB:378:ILE:HD13	2.04	0.57
1:JE:91:ILE:HD12	1:JE:116:VAL:HG22	1.86	0.57
2:JJ:79:ARG:NH2	2:JJ:94:SER:OG	2.36	0.57
1:JM:409:THR:O	60:3t:45:VAL:HG11	2.05	0.57
2:JN:325:PRO:HA	2:JN:328:VAL:HG22	1.87	0.57
1:KG:217:LEU:HD12	1:KG:220:PRO:HD3	1.87	0.57
1:KK:63:ALA:O	1:KK:89:ASN:ND2	2.36	0.57
2:KL:1:MET:HG3	2:KL:2:ARG:HD3	1.86	0.57
1:LE:347:ASN:H	22:1x:80:ARG:HH22	1.52	0.57
2:LF:240:ALA:HA	2:LF:243:ARG:HE	1.70	0.57
1:MB:222:PHE:HA	1:MB:225:LEU:HD12	1.87	0.57
1:MF:323:THR:HG1	2:MG:210:TYR:HH	1.50	0.57
2:MM:377:MET:SD	2:MM:379:ALA:HB2	2.45	0.57
1:N:304:ASP:HB3	1:N:307:HIS:CD2	2.40	0.57
1:NB:347:ASN:ND2	2:NC:178:SER:O	2.36	0.57
2:NG:101:ASN:HA	2:NG:144:GLY:H	1.69	0.57
1:NL:374:ILE:O	1:NL:377:MET:HG2	2.05	0.57
1:OB:236:VAL:HG13	1:OB:237:THR:HG23	1.87	0.57
2:OC:247:ALA:HB3	2:OC:355:ILE:HB	1.86	0.57
1:OF:27:GLU:HA	1:OF:359:LYS:HD2	1.86	0.57
2:OK:70:LEU:HD13	2:OK:145:THR:HG23	1.86	0.57
1:PF:65:LEU:HD12	1:PF:73:MET:HE1	1.85	0.57
2:PG:296:PHE:CE1	2:PG:377:MET:HE3	2.40	0.57
2:PI:260:VAL:HB	1:PJ:397:TRP:HZ2	1.70	0.57
1:PJ:268:MET:HB3	1:PJ:300:MET:HE3	1.86	0.57
1:QK:33:THR:O	1:QK:58:ARG:NH1	2.38	0.57
1:QK:200:MET:HG2	1:QK:268:MET:SD	2.44	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RA:97:ALA:O	1:RA:103:LYS:HE3	2.05	0.57
2:RB:88:ASN:ND2	2:SA:284:GLU:OE2	2.37	0.57
2:RB:167:LEU:HD21	2:RB:255:PHE:HZ	1.70	0.57
1:RC:396:HIS:HA	1:RC:399:THR:HG22	1.85	0.57
2:RH:431:ASP:HA	2:RH:434:GLU:HG3	1.85	0.57
1:RI:299:MET:HA	1:RI:299:MET:HE2	1.86	0.57
2:RJ:195:LEU:HD11	2:RJ:264:ARG:HE	1.70	0.57
2:RJ:272:TYR:HD1	2:RJ:376:CYS:HB3	1.70	0.57
2:RJ:279:GLU:HG2	22:0z:254:THR:HG22	1.86	0.57
2:SK:3:GLU:HG3	2:SK:129:CYS:HB2	1.86	0.57
1:TB:248:SER:HA	1:TB:252:LYS:NZ	2.19	0.57
2:TC:431:ASP:OD1	2:TC:432:TYR:N	2.38	0.57
2:TE:186:ASN:OD1	2:TE:408:TYR:OH	2.21	0.57
2:TG:5:ILE:HD13	2:TG:64:ARG:HB3	1.86	0.57
1:TH:252:LYS:HD2	2:TI:101:ASN:OD1	2.05	0.57
1:TJ:48:ASN:O	1:TJ:62:ARG:NH1	2.38	0.57
1:TJ:139:LEU:HG	1:TJ:168:SER:HB3	1.85	0.57
2:TK:326:LYS:HZ1	1:TL:219:THR:HA	1.68	0.57
2:UK:11:GLN:O	2:UK:15:GLN:HG2	2.04	0.57
1:V:251:ARG:NH1	2:VA:97:GLU:OE2	2.37	0.57
2:WA:251:ASP:H	2:WA:254:GLU:CB	2.17	0.57
2:WC:215:ARG:HH22	2:WC:299:ALA:HA	1.70	0.57
1:WH:316:LEU:HD23	1:WH:352:SER:HB2	1.87	0.57
2:WI:127:ASP:OD1	2:WI:128:ASN:N	2.37	0.57
1:WL:19:LYS:HZ3	1:WL:227:HIS:HB2	1.69	0.57
3:XB:164:ARG:NH2	3:XB:180:GLU:O	2.35	0.57
3:XD:104:ARG:HH12	3:XD:157:HIS:CD2	2.21	0.57
7:0D:7:SER:HA	7:0D:10:ARG:HE	1.68	0.57
9:0O:83:HIS:HB2	9:0O:86:PHE:HD2	1.69	0.57
10:0R:198:TYR:OH	36:2Q:54:ASP:OD2	2.12	0.57
20:0t:203:ARG:HB2	23:1E:339:ARG:HH22	1.68	0.57
25:1O:699:ARG:HB3	25:1O:706:GLN:NE2	2.20	0.57
26:1Q:457:VAL:H	26:1Q:473:PHE:HB3	1.69	0.57
26:1Q:501:LEU:HG	26:1Q:503:LYS:HE3	1.87	0.57
27:1S:493:ASP:O	27:1S:497:ARG:HG2	2.05	0.57
22:1x:258:LEU:O	22:1x:262:ILE:HG12	2.05	0.57
38:2U:83:THR:CG2	38:2U:85:HIS:HE1	2.18	0.57
39:2X:183:SER:O	39:2X:187:HIS:ND1	2.38	0.57
41:2l:274:ALA:HA	41:2l:277:MET:HE2	1.86	0.57
41:2o:177:THR:HA	41:2o:180:GLN:HG2	1.87	0.57
49:3P:449:VAL:O	49:3P:453:GLU:HG2	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:3S:132:PHE:O	50:3S:136:ARG:HG2	2.03	0.57
57:3i:99:MET:HE1	57:3i:107:GLN:HE22	1.68	0.57
57:3i:140:GLY:N	57:3i:143:GLU:OE2	2.37	0.57
60:3t:15:GLU:HA	60:3t:18:ARG:CD	2.34	0.57
1:A:337:ASN:HB3	1:A:340:TYR:HD2	1.70	0.57
2:AG:402:ARG:NH1	2:AG:415:GLU:OE2	2.38	0.57
1:AJ:311:LEU:HA	1:AJ:342:ILE:HD12	1.87	0.57
1:CA:152:ILE:HG23	1:CA:164:MET:SD	2.45	0.57
1:CE:267:MET:HE1	1:CE:305:PRO:HB3	1.85	0.57
2:CH:212:LEU:O	2:CH:216:SER:HB3	2.04	0.57
1:CK:68:LEU:HD12	1:CK:97:ALA:HB2	1.87	0.57
1:DA:272:PRO:HD3	1:DA:364:SER:HA	1.87	0.57
1:DC:372:THR:HG21	1:DC:426:GLN:HB2	1.86	0.57
2:DD:241:SER:O	2:DD:249:ASN:ND2	2.38	0.57
1:DG:159:TYR:HB3	1:DG:162:ARG:HG3	1.86	0.57
1:DM:22:GLU:HG2	1:DM:81:TYR:HD2	1.69	0.57
1:EF:255:VAL:HG11	2:EG:100:ALA:O	2.04	0.57
2:EG:137:VAL:HG21	2:EG:154:LEU:HD21	1.85	0.57
1:FB:377:MET:HG2	1:FB:380:ARG:NH2	2.19	0.57
1:FD:112:LEU:HD23	1:FD:147:MET:HE1	1.86	0.57
1:FJ:355:ASP:OD1	28:4W:186:ASN:N	2.26	0.57
2:FK:238:LEU:HA	2:FK:318:MET:SD	2.45	0.57
1:GB:173:PRO:HA	1:GB:176:SER:HB2	1.86	0.57
2:GG:15:GLN:NE2	71:GG:501:GTP:O6	2.38	0.57
1:HF:10:GLY:O	1:HF:14:ASN:ND2	2.38	0.57
1:HL:70:PRO:HB2	7:0D:259:THR:HG21	1.87	0.57
1:HL:196:SER:OG	1:HL:198:GLU:O	2.22	0.57
2:HM:116:ASP:OD1	2:HM:117:LEU:N	2.36	0.57
2:HM:395:PHE:HE2	2:HM:422:ARG:HB2	1.70	0.57
2:IC:199:ASP:HB3	2:IC:256:GLN:HE21	1.70	0.57
2:JD:91:GLN:HA	2:JD:121:ARG:HG2	1.86	0.57
2:JH:392:ASP:OD1	2:JH:393:HIS:N	2.37	0.57
2:JL:212:LEU:HD21	2:JL:275:VAL:HG11	1.86	0.57
1:JM:8:GLN:HG2	1:JM:17:GLY:HA3	1.87	0.57
2:K:56:THR:HG23	2:K:58:ALA:H	1.70	0.57
2:K:88:ASN:HB3	2:K:91:GLN:HE21	1.68	0.57
2:KB:193:SER:HA	2:KB:197:HIS:HD2	1.70	0.57
2:KD:177:VAL:N	2:KD:207:GLU:OE2	2.25	0.57
1:KE:324:LYS:HB2	2:KF:221:ARG:NH1	2.13	0.57
2:L:69:ASP:O	2:L:94:SER:HA	2.04	0.57
1:LA:10:GLY:O	1:LA:14:ASN:ND2	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LC:149:THR:HA	1:LC:152:ILE:HG22	1.87	0.57
1:LC:304:ASP:OD2	1:LC:306:ARG:NE	2.30	0.57
2:LF:31:GLN:HG2	45:2y:301:VAL:HG21	1.86	0.57
2:LL:309:HIS:CG	31:1s:35:ARG:HH12	2.23	0.57
1:MF:227:HIS:CE1	26:1Q:14:LYS:HD2	2.40	0.57
2:MG:204:LEU:HD22	2:MG:231:ILE:HG12	1.85	0.57
1:MH:256:ASN:HD21	2:MI:101:ASN:ND2	2.02	0.57
1:ML:4:ILE:HD11	1:ML:240:LEU:HD13	1.85	0.57
1:MN:243:PRO:HG2	45:2z:200:LEU:HD11	1.87	0.57
2:NA:240:ALA:HA	2:NA:243:ARG:HD3	1.87	0.57
2:NE:326:LYS:HE2	1:NF:220:PRO:HD2	1.85	0.57
2:NG:68:LEU:HG	2:NG:93:VAL:HG13	1.87	0.57
1:NH:152:ILE:HG22	1:NH:195:ASN:HB3	1.85	0.57
2:NK:88:ASN:HA	2:OK:283:HIS:CE1	2.40	0.57
2:NK:251:ASP:H	2:NK:254:GLU:HB3	1.68	0.57
1:NL:322:SER:HA	2:NM:223:SER:HB2	1.86	0.57
1:NL:406:MET:O	1:NL:409:THR:OG1	2.16	0.57
2:OA:228:ASN:OD1	71:OA:501:GTP:N1	2.34	0.57
1:OB:375:GLN:NE2	1:OB:419:VAL:O	2.37	0.57
2:OC:18:ASN:OD1	2:OC:19:ALA:N	2.37	0.57
2:OC:27:GLU:OE1	2:OC:243:ARG:NH1	2.33	0.57
1:OF:164:MET:H	1:OF:197:ASP:HB2	1.67	0.57
1:OJ:173:PRO:HA	1:OJ:176:SER:HB2	1.87	0.57
1:OL:258:VAL:HG23	2:OM:407:TRP:HE1	1.70	0.57
1:OL:372:THR:O	1:OL:375:GLN:HG2	2.05	0.57
2:OM:76:ASP:OD1	2:OM:79:ARG:NH2	2.27	0.57
1:PD:217:LEU:HB2	1:PD:220:PRO:HG3	1.85	0.57
1:PF:101:TRP:HB3	1:PF:398:TYR:HE2	1.70	0.57
2:PG:177:VAL:N	2:PG:207:GLU:OE2	2.27	0.57
1:PL:190:HIS:HA	1:PL:193:VAL:HG22	1.87	0.57
2:Q:172:TYR:CD2	2:Q:203:MET:HG2	2.40	0.57
1:QG:177:ASP:OD1	69:QG:500:GDP:O3'	2.19	0.57
1:QI:169:VAL:HG12	1:QI:202:ILE:HB	1.87	0.57
2:RB:392:ASP:HB2	2:RB:422:ARG:NH1	2.20	0.57
2:RJ:437:ALA:O	1:RK:391:ARG:NH2	2.37	0.57
1:RK:39:ASP:HB2	28:1Y:142:TYR:HE2	1.70	0.57
1:RK:320:ARG:HD3	28:1Y:143:VAL:HG13	1.85	0.57
1:S:67:ASP:OD1	1:S:68:LEU:N	2.37	0.57
1:SD:128:ASP:OD1	1:SD:129:CYS:N	2.37	0.57
2:SE:118:ALA:O	2:SE:122:ILE:HG12	2.05	0.57
1:T:133:PHE:CD2	1:T:155:LEU:HD23	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:TA:142:GLY:HA2	2:TA:183:GLU:HG3	1.87	0.57
1:TF:332:ASN:O	1:TF:336:LYS:HG2	2.05	0.57
2:UI:346:TRP:CG	1:UJ:391:ARG:HD2	2.39	0.57
1:UJ:268:MET:HE1	1:UJ:368:ILE:HD13	1.85	0.57
2:UK:1:MET:N	2:UK:3:GLU:OE2	2.37	0.57
1:VJ:83:GLN:O	1:WJ:281:TYR:OH	2.17	0.57
2:WC:89:PRO:HG2	5:XN:34:PRO:HG2	1.87	0.57
1:WD:333:VAL:HA	1:WD:336:LYS:HG2	1.86	0.57
2:WE:167:LEU:HD23	2:WE:200:VAL:HB	1.85	0.57
1:WF:324:LYS:HG2	2:WG:222:PRO:HD2	1.85	0.57
2:WK:180:ALA:HB3	2:WK:183:GLU:HB2	1.85	0.57
8:0I:40:ILE:HG13	13:0Z:274:VAL:HG12	1.87	0.57
14:0d:342:LEU:HD23	21:0w:50:LEU:HD13	1.85	0.57
17:0m:64:ASP:OD1	17:0n:402:ARG:NH2	2.29	0.57
21:0w:332:ASP:HA	21:0w:335:LYS:HD3	1.86	0.57
21:0w:431:PHE:CE1	21:0w:437:GLU:HA	2.40	0.57
23:1A:91:GLN:O	23:1A:95:MET:HG3	2.05	0.57
24:1J:102:ILE:HD11	24:1J:113:GLU:HB3	1.86	0.57
25:1O:195:ASP:OD1	25:1O:196:MET:N	2.37	0.57
25:1O:728:LEU:HD22	25:1O:744:LEU:HD13	1.87	0.57
26:1Q:730:LEU:HD12	26:1Q:731:PRO:HD2	1.87	0.57
27:1T:643:ASP:HB2	27:1T:650:VAL:HG22	1.87	0.57
36:2Q:92:VAL:HG21	36:2Q:98:PHE:HB2	1.87	0.57
44:2w:341:HIS:HD2	44:2w:343:VAL:HB	1.69	0.57
45:2y:345:LYS:HD2	45:2y:346:TRP:CD1	2.39	0.57
49:3P:345:ARG:H	49:3P:386:GLN:HE22	1.52	0.57
56:3d:188:LEU:O	56:3d:192:HIS:HB3	2.04	0.57
58:3m:183:SER:O	58:3m:187:MET:HG3	2.05	0.57
59:4O:266:GLU:OE2	59:4O:270:ARG:NE	2.38	0.57
65:5H:160:ARG:HH21	65:5H:163:ARG:NH2	1.99	0.57
67:5O:30:TYR:OH	68:5S:147:GLN:OE1	2.23	0.57
1:AH:42:LEU:HD12	1:AH:356:ILE:HD11	1.87	0.57
1:AH:67:ASP:OD1	1:AH:68:LEU:N	2.37	0.57
2:AK:97:GLU:OE1	2:AK:105:ARG:NH1	2.38	0.57
2:BA:271:SER:HA	2:BA:302:LEU:HD23	1.86	0.57
1:BF:313:ALA:HB3	1:BF:349:ILE:HG12	1.87	0.57
2:BI:377:MET:HE3	2:BI:379:ALA:HB2	1.87	0.57
1:BJ:309:ARG:H	1:BJ:372:THR:HG1	1.52	0.57
2:BK:254:GLU:OE2	1:BL:99:ASN:ND2	2.38	0.57
1:BL:331:LEU:HD22	2:BM:177:VAL:HB	1.87	0.57
1:CG:27:GLU:OE2	1:CG:318:ARG:NH2	2.29	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EB:113:ILE:HG13	1:EB:117:LEU:HD23	1.87	0.57
2:EK:88:ASN:OD1	2:EK:89:PRO:HD2	2.04	0.57
1:FF:198:GLU:HA	1:FF:264:HIS:HB2	1.87	0.57
2:FK:240:ALA:HB2	2:FK:243:ARG:HH21	1.69	0.57
2:GG:184:PRO:HA	2:GG:391:ILE:HD11	1.86	0.57
1:GL:11:GLN:HA	1:GL:72:THR:HG21	1.87	0.57
1:HL:125:GLU:OE2	1:IL:291:GLN:NE2	2.38	0.57
2:IK:195:LEU:HD21	2:IK:264:ARG:HE	1.70	0.57
1:IL:2:ARG:NH2	2:IM:72:PRO:HD2	2.18	0.57
1:JA:344:TRP:HZ3	2:JB:403:ALA:HB2	1.68	0.57
1:JC:20:PHE:CE1	1:JC:233:MET:HG3	2.39	0.57
1:JE:66:MET:HB3	1:JE:147:MET:HE3	1.87	0.57
2:JF:195:LEU:HD11	2:JF:428:LEU:HD22	1.86	0.57
1:JG:290:THR:HG21	1:JG:329:GLN:HB3	1.86	0.57
1:JM:202:ILE:HD12	1:JM:300:MET:HE2	1.87	0.57
1:KE:170:ILE:N	1:KE:202:ILE:O	2.38	0.57
2:LB:260:VAL:O	1:LC:397:TRP:NE1	2.35	0.57
2:LD:324:VAL:HG11	2:LD:326:LYS:HD2	1.86	0.57
2:LF:22:GLU:OE1	45:2y:296:HIS:ND1	2.37	0.57
1:LG:45:GLU:OE2	1:LG:46:ARG:NH1	2.38	0.57
1:LG:229:VAL:O	1:LG:233:MET:HG3	2.04	0.57
2:LH:142:GLY:HA2	2:LH:183:GLU:HG3	1.86	0.57
1:LM:139:LEU:HG	1:LM:168:SER:HB2	1.87	0.57
2:LN:311:LYS:N	2:LN:382:THR:OG1	2.36	0.57
1:M:336:LYS:O	6:0:113:GLN:NE2	2.37	0.57
2:ME:265:ILE:HG21	2:ME:313:MET:HE2	1.86	0.57
1:MF:10:GLY:O	1:MF:14:ASN:ND2	2.37	0.57
1:MN:193:VAL:HG11	1:MN:262:ARG:HH21	1.69	0.57
1:MN:282:ARG:HG3	1:MN:283:GLY:H	1.69	0.57
2:NA:102:ASN:ND2	2:NA:407:TRP:O	2.38	0.57
1:NB:17:GLY:HA2	1:NB:20:PHE:HB3	1.87	0.57
2:NC:276:VAL:HB	2:NC:280:LYS:HB3	1.85	0.57
2:NE:241:SER:OG	2:NE:250:VAL:O	2.17	0.57
1:NH:31:ASP:OD2	1:NH:37:GLN:NE2	2.34	0.57
1:O:217:LEU:HD13	1:O:220:PRO:CD	2.33	0.57
2:OA:28:HIS:CE1	2:OA:243:ARG:HD2	2.40	0.57
1:OD:206:ALA:O	1:OD:210:ILE:HG12	2.04	0.57
2:OM:172:TYR:CD1	2:OM:203:MET:HG3	2.39	0.57
1:QI:323:THR:HA	1:QI:326:VAL:HG12	1.87	0.57
1:QK:133:PHE:CD2	1:QK:164:MET:HE1	2.38	0.57
1:RA:25:SER:HB2	1:RA:81:TYR:HE2	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RG:173:PRO:HG2	1:RG:380:ARG:HD2	1.86	0.57
1:SB:173:PRO:HD2	1:SB:380:ARG:CZ	2.34	0.57
1:SF:8:GLN:HG2	1:SF:17:GLY:HA3	1.87	0.57
2:SG:22:GLU:OE2	2:SG:229:ARG:NH1	2.37	0.57
2:SI:437:ALA:HB3	57:3h:139:ILE:HD11	1.86	0.57
1:TB:112:LEU:O	1:TB:116:VAL:HG23	2.04	0.57
2:TE:9:ILE:HD11	2:TE:153:LEU:HD13	1.86	0.57
1:TF:323:THR:HG21	2:TG:224:TYR:CZ	2.40	0.57
1:TJ:220:PRO:HA	21:0w:155:ARG:NH1	2.19	0.57
1:TJ:332:ASN:O	1:TJ:336:LYS:HG2	2.04	0.57
2:TK:169:TYR:HD2	2:TK:204:LEU:HD11	1.70	0.57
1:TL:211:CYS:HA	1:TL:215:LEU:HD12	1.86	0.57
1:U:309:ARG:NH1	1:U:339:SER:O	2.38	0.57
1:UB:232:VAL:HG22	1:UB:270:PHE:HB2	1.86	0.57
2:UC:396:ASP:OD1	2:UC:397:LEU:N	2.38	0.57
2:UI:260:VAL:HB	1:UJ:397:TRP:HZ2	1.70	0.57
2:UK:105:ARG:HH21	2:UK:110:ILE:HG13	1.69	0.57
1:V:286:VAL:HG23	1:V:317:PHE:CE2	2.40	0.57
1:VJ:132:GLY:HA2	1:VJ:162:ARG:HB3	1.85	0.57
1:VJ:139:LEU:HG	1:VJ:168:SER:HB2	1.87	0.57
1:VL:325:GLU:OE2	62:4B:412:ASN:ND2	2.29	0.57
2:VM:90:GLU:HB2	2:VM:121:ARG:NH1	2.18	0.57
2:WC:301:MET:HE1	2:WC:307:PRO:HG3	1.86	0.57
2:WK:169:TYR:HA	2:WK:202:THR:HB	1.87	0.57
2:WM:237:SER:HA	2:WM:320:ARG:HD2	1.87	0.57
3:XC:75:PHE:HB2	3:XC:168:SER:O	2.05	0.57
3:XD:97:LYS:HB2	3:XD:99:MET:HE1	1.87	0.57
4:XQ:150:VAL:HG11	4:XQ:187:ARG:HH22	1.69	0.57
4:XR:220:ARG:NH1	4:XR:270:ARG:O	2.38	0.57
6:0:56:GLU:HB3	6:0:60:LYS:HZ1	1.70	0.57
6:0:162:SER:H	33:2F:286:PRO:HD3	1.70	0.57
8:0G:333:GLU:OE1	8:0G:337:ARG:NH1	2.37	0.57
8:0I:182:GLU:OE2	8:0I:186:GLN:NE2	2.37	0.57
8:0I:246:ARG:O	8:0I:250:GLU:HG2	2.05	0.57
9:0M:581:ARG:HH12	9:0M:629:LEU:H	1.51	0.57
12:0W:120:CYS:HB2	12:0W:157:ARG:HE	1.70	0.57
23:1F:373:ARG:NH1	29:1l:193:TYR:OH	2.38	0.57
32:2B:192:VAL:HG11	32:2B:230:VAL:HG22	1.86	0.57
41:2i:358:ARG:HA	41:2i:361:GLN:HG2	1.85	0.57
44:2w:180:VAL:HG12	44:2w:272:PRO:HG2	1.86	0.57
49:3Q:400:ARG:NH1	49:3Q:480:SER:OG	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:3Z:398:ARG:NH1	54:3Z:402:GLY:O	2.38	0.57
57:3h:75:GLU:OE2	57:3h:79:ASN:ND2	2.38	0.57
59:3p:272:MET:HE3	59:3p:275:ARG:HH21	1.69	0.57
67:5O:11:ILE:HG22	67:5O:12:ILE:HG13	1.86	0.57
1:A:61:PRO:HD3	1:A:84:LEU:HG	1.87	0.57
1:AD:130:LEU:O	1:AD:162:ARG:NH1	2.35	0.57
2:AE:38:SER:O	26:1Q:88:ARG:NH2	2.38	0.57
2:BG:67:PHE:HB2	2:BG:92:LEU:HD12	1.86	0.57
1:BJ:286:VAL:CG1	1:BJ:325:GLU:HB3	2.35	0.57
2:BM:89:PRO:HG2	2:CL:280:LYS:HG2	1.87	0.57
1:CG:237:THR:HG22	1:CG:250:LEU:HD21	1.86	0.57
2:CH:310:GLY:HA3	2:CH:383:ALA:HB2	1.87	0.57
1:DA:296:ALA:HB3	1:DA:306:ARG:HH21	1.70	0.57
2:DH:248:LEU:HB2	2:DH:355:ILE:H	1.69	0.57
1:DI:16:ILE:HD11	1:DI:229:VAL:HB	1.86	0.57
2:DL:177:VAL:HG12	2:DL:207:GLU:HB3	1.85	0.57
1:EB:322:SER:OG	2:EC:222:PRO:O	2.23	0.57
1:F:164:MET:H	1:F:197:ASP:HB2	1.70	0.57
2:FC:170:THR:HB	2:FC:172:TYR:CE2	2.40	0.57
2:FC:253:THR:HA	2:FC:256:GLN:HG2	1.86	0.57
2:FI:212:LEU:HD21	2:FI:275:VAL:HG11	1.86	0.57
1:FL:58:ARG:NH1	1:GL:280:GLN:OE1	2.37	0.57
1:GD:10:GLY:HA2	1:GD:143:THR:HG23	1.86	0.57
2:GE:71:GLU:OE1	2:GE:73:THR:HG22	2.05	0.57
1:GF:424:GLN:O	1:GF:428:ALA:HB2	2.05	0.57
2:GK:111:GLY:O	2:GK:115:VAL:HG23	2.04	0.57
2:GK:217:LEU:HD23	2:GK:367:ASP:HB2	1.87	0.57
1:H:139:LEU:HG	1:H:168:SER:HB2	1.86	0.57
1:H:152:ILE:HG23	1:H:164:MET:HG3	1.87	0.57
1:HH:144:GLY:N	69:HH:500:GDP:O2B	2.38	0.57
1:HL:339:SER:N	64:5D:91:LYS:HE3	2.19	0.57
1:I:214:THR:HG22	1:I:297:LYS:HE2	1.86	0.57
1:I:290:THR:HG21	1:I:329:GLN:HB3	1.87	0.57
1:I:329:GLN:HA	1:I:332:ASN:HB2	1.87	0.57
2:IC:138:PHE:HE2	2:IC:235:VAL:HG21	1.69	0.57
2:IC:223:SER:OG	2:IC:224:TYR:N	2.38	0.57
2:IE:406:HIS:HA	2:IE:409:VAL:HG22	1.87	0.57
1:IJ:271:ALA:HB1	1:IJ:292:GLN:HE21	1.70	0.57
2:IK:402:ARG:HD3	2:IK:405:VAL:HG21	1.85	0.57
1:JA:10:GLY:O	1:JA:14:ASN:ND2	2.38	0.57
2:JB:219:ILE:HG22	2:JB:222:PRO:HD3	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JD:406:HIS:HA	2:JD:409:VAL:HG22	1.87	0.57
1:JG:280:GLN:HE22	47:3D:141:PRO:HD3	1.70	0.57
2:JH:98:ASP:O	2:JH:105:ARG:NH1	2.38	0.57
2:JH:116:ASP:OD1	2:JH:117:LEU:N	2.36	0.57
1:JM:159:TYR:HB3	1:JM:162:ARG:HG3	1.85	0.57
2:JN:108:TYR:O	2:JN:112:LYS:NZ	2.25	0.57
1:KI:322:SER:OG	2:KJ:222:PRO:O	2.22	0.57
1:KK:284:LEU:HD21	1:KK:363:MET:HG2	1.87	0.57
1:KK:296:ALA:HB1	1:KK:305:PRO:HD2	1.87	0.57
2:KL:79:ARG:O	2:KL:84:ARG:HG2	2.05	0.57
1:LK:208:TYR:HE1	1:LK:225:LEU:HG	1.69	0.57
1:LM:10:GLY:O	1:LM:14:ASN:ND2	2.38	0.57
2:MC:213:THR:HA	2:MC:217:LEU:HD12	1.87	0.57
1:MF:375:GLN:HB2	1:MF:419:VAL:HG23	1.87	0.57
2:MK:159:VAL:HG11	33:2H:33:TYR:CE1	2.40	0.57
1:ND:232:VAL:HG23	1:ND:366:THR:HB	1.87	0.57
2:NE:169:TYR:HB3	2:NE:204:LEU:HD11	1.85	0.57
1:NF:222:PHE:HD1	1:NF:225:LEU:HD12	1.70	0.57
2:NG:257:THR:HG1	1:NH:397:TRP:CD1	2.22	0.57
1:OD:173:PRO:HD3	1:OD:380:ARG:CZ	2.35	0.57
1:OD:376:GLU:OE1	1:OD:379:ARG:NH2	2.37	0.57
1:OF:11:GLN:HA	1:OF:72:THR:HG21	1.87	0.57
2:OG:56:THR:HG22	2:OG:58:ALA:H	1.69	0.57
2:OG:213:THR:HA	2:OG:217:LEU:HD23	1.87	0.57
2:OI:395:PHE:CD2	2:OI:422:ARG:HD3	2.39	0.57
2:OM:33:ASP:OD1	2:OM:34:GLY:N	2.38	0.57
1:PB:289:LEU:O	1:PB:293:MET:HG3	2.05	0.57
1:PD:313:ALA:HB1	1:PD:367:PHE:HE1	1.70	0.57
2:PK:102:ASN:HB3	2:PK:105:ARG:HB2	1.87	0.57
2:PM:345:ASP:OD2	2:PM:346:TRP:N	2.38	0.57
2:QB:67:PHE:HB2	2:QB:92:LEU:HD12	1.85	0.57
2:QD:402:ARG:HB3	2:QD:405:VAL:HG11	1.87	0.57
1:QE:21:TRP:HA	1:QE:24:ILE:HG22	1.87	0.57
1:QG:289:LEU:O	1:QG:293:MET:HG3	2.05	0.57
1:QK:236:VAL:HG23	1:QK:237:THR:HG23	1.87	0.57
1:RA:323:THR:HA	1:RA:326:VAL:HG12	1.87	0.57
2:RB:116:ASP:OD1	2:RB:117:LEU:N	2.38	0.57
1:RC:19:LYS:HD3	1:RC:226:ASN:HB2	1.87	0.57
2:RH:326:LYS:NZ	1:RI:220:PRO:O	2.37	0.57
1:SB:118:ASP:OD1	1:SB:122:LYS:NZ	2.38	0.57
1:SB:295:ASP:OD1	1:SB:297:LYS:NZ	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SJ:96:GLY:O	1:SJ:103:LYS:NZ	2.33	0.57
2:SK:207:GLU:N	2:SK:207:GLU:OE1	2.38	0.57
1:T:398:TYR:HD2	1:T:408:PHE:HZ	1.53	0.57
2:TI:204:LEU:HD22	2:TI:231:ILE:HG12	1.87	0.57
2:TI:209:ILE:HG12	2:TI:302:LEU:HD22	1.87	0.57
1:U:209:ASP:O	1:U:213:ARG:HG2	2.05	0.57
1:UD:2:ARG:NH2	2:UE:72:PRO:HD2	2.19	0.57
1:VF:322:SER:HG	1:VF:325:GLU:CD	2.11	0.57
1:VJ:236:VAL:HA	1:VJ:316:LEU:HD13	1.87	0.57
2:VK:174:SER:OG	2:VK:177:VAL:O	2.23	0.57
1:WB:392:LYS:HE2	1:WB:395:LEU:HD23	1.87	0.57
2:WG:145:THR:N	71:WG:501:GTP:O3G	2.33	0.57
1:WL:322:SER:OG	2:WM:222:PRO:O	2.20	0.57
7:0D:365:GLN:HA	7:0D:368:HIS:NE2	2.20	0.57
9:0L:204:THR:OG1	9:0L:248:LEU:O	2.22	0.57
9:0N:290:LEU:HD23	9:0N:299:VAL:HG12	1.87	0.57
19:0r:70:ARG:HE	19:0r:80:ASP:CG	2.13	0.57
20:0t:204:ASP:O	27:1S:23:ARG:NH1	2.37	0.57
24:1H:120:LEU:HB3	24:1H:129:MET:HE1	1.86	0.57
24:1I:251:ASP:OD2	24:1I:252:ARG:N	2.37	0.57
29:1l:16:ARG:HA	29:1l:76:GLY:HA3	1.87	0.57
22:1w:72:THR:HA	48:3F:43:LYS:HZ3	1.70	0.57
56:3d:126:ARG:HB2	56:3d:130:LYS:HD2	1.86	0.57
57:3i:24:VAL:O	57:3i:28:TYR:HD2	1.87	0.57
64:5D:87:LEU:O	64:5D:91:LYS:HB2	2.05	0.57
65:5H:134:ARG:HH22	68:5T:138:ARG:HG2	1.69	0.57
1:AH:324:LYS:HB2	2:AI:221:ARG:HH11	1.70	0.56
2:BE:278:ALA:HB3	16:0k:298:ALA:HB2	1.85	0.56
1:BH:165:MET:HE3	1:BH:167:PHE:HE1	1.69	0.56
1:BN:35:THR:HG23	1:BN:37:GLN:HE22	1.69	0.56
2:C:155:GLU:HG2	2:C:197:HIS:ND1	2.21	0.56
1:CA:187:LEU:HD13	1:CA:403:MET:HE1	1.87	0.56
2:CF:311:LYS:HG2	2:CF:342:GLN:HG3	1.87	0.56
2:CL:9:ILE:HG22	2:CL:146:GLY:HA2	1.86	0.56
2:D:173:PRO:HB3	2:D:183:GLU:HG2	1.87	0.56
1:DC:323:THR:HA	1:DC:326:VAL:HG22	1.87	0.56
1:DG:86:ARG:HG3	1:EF:281:TYR:HB3	1.86	0.56
1:EB:44:LEU:HD23	1:EB:47:ILE:HD11	1.88	0.56
1:EH:344:TRP:HZ3	2:EI:403:ALA:HB2	1.69	0.56
1:F:219:THR:OG1	24:1H:462:ARG:NH2	2.38	0.56
2:FA:162:GLY:HA3	59:4O:119:PHE:CZ	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FD:272:PRO:HG2	1:FD:284:LEU:HD11	1.86	0.56
1:FF:344:TRP:CD1	2:FG:401:LYS:HZ1	2.23	0.56
1:FH:375:GLN:NE2	1:FH:423:GLN:HE21	1.99	0.56
1:FL:238:CYS:HB2	1:FL:318:ARG:HH11	1.71	0.56
2:GA:6:CYS:O	2:GA:65:CYS:HA	2.04	0.56
1:GB:386:THR:O	1:GB:390:ARG:HG2	2.04	0.56
2:GE:217:LEU:HD21	2:GE:368:LEU:HD13	1.86	0.56
1:GJ:377:MET:HA	1:GJ:380:ARG:HG2	1.86	0.56
2:GK:187:CYS:O	2:GK:191:THR:HG23	2.05	0.56
2:HA:34:GLY:O	2:HA:61:HIS:N	2.35	0.56
2:HC:79:ARG:NH2	2:HC:92:LEU:O	2.37	0.56
1:HD:293:MET:HE1	1:HD:315:ALA:HB2	1.87	0.56
2:HI:238:LEU:HA	2:HI:318:MET:HG3	1.87	0.56
2:HI:365:GLY:H	17:0n:211:ILE:HD13	1.70	0.56
2:HK:173:PRO:HB3	2:HK:183:GLU:HG2	1.87	0.56
1:I:165:MET:HE3	1:I:250:LEU:HD22	1.86	0.56
1:ID:377:MET:HG2	1:ID:380:ARG:HH21	1.70	0.56
2:IK:322:ASP:OD1	2:IK:373:ARG:NH2	2.38	0.56
1:JA:73:MET:HE3	1:JA:73:MET:HA	1.86	0.56
2:JB:240:ALA:HA	2:JB:243:ARG:HE	1.70	0.56
2:JB:259:LEU:HD21	2:JB:268:VAL:HG11	1.86	0.56
2:JD:258:ASN:OD1	1:JE:179:VAL:HG22	2.05	0.56
2:JF:209:ILE:HG21	2:JF:227:VAL:HG13	1.85	0.56
2:JH:402:ARG:HB2	2:JH:405:VAL:HG11	1.86	0.56
2:JL:169:TYR:HD1	2:JL:202:THR:HB	1.70	0.56
2:KF:335:ILE:HG23	2:KF:341:ILE:HD11	1.87	0.56
2:KL:177:VAL:N	2:KL:207:GLU:OE2	2.32	0.56
2:KN:11:GLN:N	71:KN:501:GTP:O2B	2.31	0.56
1:LC:262:ARG:NH2	1:LC:414:ASN:OD1	2.38	0.56
1:LC:332:ASN:OD1	1:LC:336:LYS:NZ	2.30	0.56
2:LD:236:SER:O	2:LD:243:ARG:NH2	2.38	0.56
2:LD:423:GLU:HG3	31:1q:107:PHE:HD1	1.69	0.56
1:LG:68:LEU:HG	1:LG:143:THR:HG23	1.87	0.56
2:LH:224:TYR:HA	2:LH:227:VAL:HG22	1.85	0.56
1:LI:211:CYS:HA	1:LI:215:LEU:HD12	1.86	0.56
2:LJ:265:ILE:HG22	2:LJ:380:ASN:HD21	1.69	0.56
2:LN:229:ARG:CZ	29:1l:194:GLN:HE22	2.18	0.56
1:M:234:SER:O	1:M:241:ARG:NH2	2.35	0.56
1:M:374:ILE:HD11	1:M:422:TYR:CZ	2.40	0.56
1:MF:178:THR:HB	1:MF:181:GLU:HG3	1.87	0.56
1:MF:204:ASN:OD1	69:MF:500:GDP:O2'	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MG:98:ASP:O	2:MG:105:ARG:NH1	2.38	0.56
1:ML:99:ASN:ND2	1:ML:141:GLY:HA2	2.20	0.56
1:N:173:PRO:HA	1:N:176:SER:HB2	1.87	0.56
2:NA:3:GLU:OE2	2:NA:64:ARG:HD3	2.04	0.56
1:ND:380:ARG:O	1:ND:384:GLN:HG3	2.04	0.56
1:NJ:87:PRO:HD3	1:OJ:281:TYR:CD2	2.40	0.56
1:NL:248:SER:HA	1:NL:252:LYS:HG2	1.87	0.56
1:O:267:MET:HE1	1:O:301:GLN:OE1	2.05	0.56
2:OC:59:GLY:HA2	41:2k:186:ARG:HH12	1.69	0.56
2:OC:335:ILE:HD13	2:OC:338:LYS:NZ	2.20	0.56
2:OE:60:LYS:HD2	2:PE:282:TYR:CE2	2.40	0.56
2:OK:270:THR:HG23	2:OK:302:LEU:HB2	1.87	0.56
1:P:236:VAL:HG13	1:P:237:THR:HG23	1.87	0.56
1:PB:328:GLU:OE2	1:PB:332:ASN:ND2	2.34	0.56
2:PC:104:ALA:HB2	2:PC:413:MET:HE3	1.85	0.56
2:PG:225:THR:HG21	28:1d:190:GLU:HG2	1.87	0.56
1:PH:125:GLU:OE2	59:4a:286:GLY:N	2.38	0.56
2:PI:388:PHE:HE2	2:PI:432:TYR:HE2	1.51	0.56
1:QA:63:ALA:O	1:QA:89:ASN:ND2	2.37	0.56
2:QD:98:ASP:O	2:QD:105:ARG:NH1	2.38	0.56
2:QF:336:LYS:HD2	2:QF:343:PHE:HE2	1.70	0.56
1:QK:162:ARG:NH2	2:QL:97:GLU:OE2	2.30	0.56
1:QK:215:LEU:HD21	1:QK:273:LEU:HD22	1.86	0.56
2:RB:238:LEU:HA	2:RB:318:MET:HG3	1.86	0.56
2:RD:91:GLN:HG2	2:RD:125:LEU:HD21	1.86	0.56
2:RD:204:LEU:HD22	2:RD:231:ILE:HG12	1.86	0.56
2:RF:346:TRP:O	1:RG:388:MET:HG2	2.05	0.56
2:RJ:270:THR:HG22	2:RJ:378:ILE:HG12	1.87	0.56
1:RK:16:ILE:HD12	1:RK:229:VAL:HG11	1.86	0.56
2:SA:263:PRO:HD3	1:SB:396:HIS:NE2	2.20	0.56
1:SD:63:ALA:O	1:SD:89:ASN:ND2	2.35	0.56
1:SD:347:ASN:ND2	2:SE:178:SER:OG	2.37	0.56
1:SJ:2:ARG:HH12	1:SJ:240:LEU:HA	1.69	0.56
2:TG:251:ASP:H	2:TG:254:GLU:HB3	1.70	0.56
2:TI:22:GLU:HG3	48:3M:433:ARG:HH12	1.69	0.56
2:TK:185:TYR:HE2	2:TK:404:PHE:HB2	1.70	0.56
1:UB:267:MET:HE3	1:UB:301:GLN:HB3	1.86	0.56
2:UK:157:LEU:O	2:UK:161:TYR:HB2	2.04	0.56
1:VD:234:SER:O	1:VD:241:ARG:NH2	2.35	0.56
2:VG:70:LEU:HD21	2:VG:149:LEU:HD22	1.86	0.56
1:W:311:LEU:HA	1:W:342:ILE:HD12	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:WE:69:ASP:OD2	2:WE:71:GLU:N	2.36	0.56
10:0S:428:ILE:O	10:0S:432:ILE:HG12	2.05	0.56
14:0c:72:ASP:OD1	14:0c:73:GLY:N	2.37	0.56
16:0l:323:ALA:O	16:0l:327:ILE:HG13	2.04	0.56
22:0z:65:THR:HG22	22:0z:67:ASN:N	2.20	0.56
23:1A:116:GLU:OE1	40:2Z:9:ILE:HB	2.04	0.56
23:1B:332:LEU:HD21	44:2w:52:TYR:CZ	2.40	0.56
25:1O:367:GLN:N	25:1O:372:TYR:OH	2.35	0.56
27:1S:197:LEU:HD12	27:1S:203:VAL:HG11	1.87	0.56
35:2O:48:ARG:NH2	39:2X:142:GLY:O	2.37	0.56
36:2Q:118:VAL:HG21	36:2Q:196:ALA:HB2	1.85	0.56
41:2h:340:GLU:O	41:2h:343:ARG:HD3	2.05	0.56
41:2i:340:GLU:O	41:2i:343:ARG:HD3	2.05	0.56
42:2r:367:HIS:HA	42:2r:370:GLU:HG2	1.87	0.56
45:2y:213:PRO:HB2	45:2y:229:PHE:HE2	1.70	0.56
57:3i:60:ASP:HB2	57:3i:64:ARG:NH1	2.20	0.56
1:AB:173:PRO:HA	1:AB:176:SER:HB2	1.87	0.56
2:AC:237:SER:HA	2:AC:320:ARG:HD2	1.87	0.56
1:AN:122:LYS:O	1:AN:125:GLU:HG3	2.05	0.56
2:BC:241:SER:HA	2:BC:356:ASN:HD22	1.69	0.56
2:BE:1:MET:N	2:BE:3:GLU:OE2	2.37	0.56
2:BE:388:PHE:HA	2:BE:391:ILE:HG22	1.87	0.56
1:BH:245:GLN:NE2	1:BH:321:MET:O	2.38	0.56
1:BJ:60:VAL:HG21	1:BJ:86:ARG:HG3	1.87	0.56
2:BK:406:HIS:HA	2:BK:409:VAL:HG12	1.87	0.56
1:BN:141:GLY:O	1:BN:184:ASN:ND2	2.38	0.56
1:BN:208:TYR:CE1	1:BN:225:LEU:HD11	2.40	0.56
2:CD:200:VAL:HG23	2:CD:256:GLN:HE22	1.70	0.56
2:CL:31:GLN:HE22	2:CL:37:PRO:HG3	1.69	0.56
2:EE:262:TYR:OH	1:EF:391:ARG:O	2.20	0.56
2:GA:268:VAL:HG12	2:GA:380:ASN:HB3	1.87	0.56
1:GJ:51:PHE:HB3	1:GJ:59:TYR:HB3	1.86	0.56
2:GK:240:ALA:HA	2:GK:243:ARG:HE	1.70	0.56
1:HD:112:LEU:O	1:HD:116:VAL:HG23	2.04	0.56
1:IL:324:LYS:HG2	2:IM:222:PRO:HG2	1.86	0.56
2:JB:133:GLN:NE2	2:JB:251:ASP:HB3	2.19	0.56
2:JB:296:PHE:CD2	2:JB:335:ILE:HD13	2.41	0.56
1:JE:11:GLN:HA	1:JE:72:THR:HG21	1.86	0.56
2:JH:285:GLN:NE2	2:JH:287:SER:HB2	2.19	0.56
1:JI:324:LYS:NZ	2:JJ:222:PRO:O	2.38	0.56
1:JK:413:SER:HB2	60:3s:146:SER:HB2	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JL:388:PHE:HA	2:JL:391:ILE:HG22	1.86	0.56
1:KE:11:GLN:HE22	69:KE:500:GDP:H8	1.52	0.56
2:KH:2:ARG:HA	2:KH:133:GLN:HE22	1.69	0.56
1:KI:149:THR:HA	1:KI:152:ILE:HG12	1.86	0.56
2:KL:223:SER:OG	2:KL:224:TYR:N	2.37	0.56
2:LH:430:LYS:HD2	51:X1:205:TYR:HA	1.86	0.56
1:LK:362:LYS:HG3	23:1E:88:TYR:HD2	1.69	0.56
1:LM:245:GLN:NE2	1:LM:323:THR:OG1	2.37	0.56
1:LO:23:VAL:O	1:LO:26:ASP:HB2	2.04	0.56
2:MI:71:GLU:OE1	2:MI:73:THR:HG22	2.05	0.56
1:NF:83:GLN:O	1:OF:281:TYR:OH	2.15	0.56
2:NG:71:GLU:HB3	2:NG:98:ASP:HB3	1.86	0.56
1:O:173:PRO:HD2	1:O:380:ARG:NH2	2.20	0.56
1:OB:9:ALA:HB3	1:OB:137:HIS:HB3	1.87	0.56
2:OC:187:CYS:O	2:OC:191:THR:HG23	2.04	0.56
1:OD:113:ILE:HG13	1:OD:117:LEU:HD23	1.86	0.56
1:OD:272:PRO:HD3	1:OD:364:SER:HA	1.86	0.56
2:OG:335:ILE:HG13	2:OG:338:LYS:HD2	1.85	0.56
1:OJ:257:LEU:HB3	1:OJ:266:PHE:CE1	2.40	0.56
2:OM:250:VAL:HG21	2:OM:318:MET:HE1	1.86	0.56
1:PB:66:MET:SD	1:PB:151:LEU:HD22	2.45	0.56
2:PC:27:GLU:OE1	2:PC:243:ARG:NH2	2.37	0.56
1:PF:377:MET:HG3	1:PF:378:PHE:CD2	2.40	0.56
2:PI:257:THR:HG1	1:PJ:397:TRP:CD1	2.24	0.56
1:PJ:24:ILE:HD12	1:PJ:241:ARG:HH12	1.70	0.56
1:PL:236:VAL:HG13	1:PL:237:THR:HG23	1.87	0.56
2:Q:65:CYS:SG	2:Q:66:LEU:N	2.78	0.56
2:Q:237:SER:HA	2:Q:320:ARG:HD2	1.87	0.56
1:QE:58:ARG:NH2	1:QE:83:GLN:O	2.35	0.56
1:QE:192:LEU:O	1:QE:196:SER:HB3	2.05	0.56
1:RA:320:ARG:NH2	28:1X:184:ILE:H	2.02	0.56
2:RF:254:GLU:OE2	1:RG:99:ASN:ND2	2.38	0.56
2:RJ:3:GLU:HA	2:RJ:51:THR:HA	1.87	0.56
2:SC:284:GLU:HG2	2:SC:286:LEU:HD22	1.88	0.56
1:SJ:274:THR:OG1	1:SJ:279:GLN:OE1	2.20	0.56
2:TA:129:CYS:HB2	2:TA:132:LEU:HD23	1.86	0.56
1:TB:256:ASN:O	1:TB:312:THR:HG21	2.05	0.56
1:TF:211:CYS:HB3	1:TF:220:PRO:HB3	1.87	0.56
1:TH:268:MET:HE3	1:TH:269:GLY:N	2.19	0.56
1:UB:139:LEU:HG	1:UB:168:SER:HB3	1.87	0.56
2:UC:126:ALA:CB	62:4B:168:TYR:HE1	2.17	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:UE:67:PHE:HB2	2:UE:92:LEU:HD12	1.87	0.56
2:UK:326:LYS:NZ	1:UL:220:PRO:HD2	2.20	0.56
2:VA:271:SER:HB3	2:VA:301:MET:HA	1.87	0.56
1:VD:16:ILE:HD12	1:VD:229:VAL:HG21	1.87	0.56
1:VF:290:THR:HG21	1:VF:329:GLN:HB3	1.87	0.56
2:WE:151:ALA:O	2:WE:155:GLU:HG3	2.05	0.56
1:WH:139:LEU:HG	1:WH:168:SER:HB2	1.86	0.56
3:XF:156:VAL:HG11	3:XF:162:ILE:HD11	1.87	0.56
4:XQ:219:LEU:HD22	4:XQ:280:THR:HG21	1.87	0.56
8:0G:333:GLU:O	8:0G:337:ARG:HD3	2.05	0.56
9:0O:173:VAL:HA	9:0O:201:SER:HB2	1.86	0.56
22:1x:187:LEU:HD21	48:3G:111:ASN:HD21	1.70	0.56
38:2U:320:THR:HG23	38:2U:323:GLY:H	1.69	0.56
41:2l:318:ALA:HA	41:2l:321:LYS:HE2	1.87	0.56
44:2v:35:ASP:HA	44:2v:38:ARG:HD2	1.87	0.56
49:3P:455:CYS:HG	49:3P:456:TRP:CD1	2.23	0.56
53:3X:44:LEU:HD21	53:3X:60:MET:HG3	1.85	0.56
56:3d:202:LYS:HD2	56:3d:202:LYS:O	2.05	0.56
64:5C:106:GLU:HA	64:5C:109:ARG:HG2	1.87	0.56
64:5C:150:ARG:HH12	64:5C:154:GLU:HB2	1.70	0.56
1:A:344:TRP:CG	2:AA:401:LYS:HZ3	2.22	0.56
1:AB:58:ARG:HH11	1:BB:280:GLN:HG3	1.71	0.56
2:AE:3:GLU:OE2	2:AE:131:GLY:N	2.37	0.56
2:AE:219:ILE:HB	2:AE:222:PRO:HG3	1.85	0.56
1:AN:330:MET:HE3	1:AN:330:MET:HA	1.87	0.56
1:B:91:ILE:HG21	1:B:116:VAL:HG22	1.88	0.56
2:BC:173:PRO:HG3	2:BC:183:GLU:HG2	1.86	0.56
1:BD:385:PHE:HE2	1:BD:412:GLU:HB2	1.70	0.56
2:BG:352:LYS:HE2	1:BH:99:ASN:HD21	1.70	0.56
2:BI:75:VAL:HG21	2:BI:94:SER:HB2	1.87	0.56
2:BI:223:SER:N	2:BI:226:ASN:OD1	2.30	0.56
2:CD:298:PRO:HD2	2:CD:299:ALA:H	1.71	0.56
1:CE:113:ILE:HG13	1:CE:117:LEU:HD23	1.86	0.56
1:CK:286:VAL:HG11	1:CK:325:GLU:HB3	1.86	0.56
1:DA:31:ASP:OD2	1:DA:35:THR:OG1	2.23	0.56
1:DM:11:GLN:HA	1:DM:72:THR:HG21	1.87	0.56
1:DM:380:ARG:O	1:DM:384:GLN:HG3	2.05	0.56
2:EA:293:ASN:O	2:EA:297:GLU:HG2	2.05	0.56
1:ED:4:ILE:HD12	1:ED:250:LEU:HD21	1.86	0.56
1:EF:276:ARG:HH21	25:1O:424:PRO:HD3	1.70	0.56
1:EJ:324:LYS:NZ	2:EK:222:PRO:O	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EL:409:THR:O	1:EL:412:GLU:HG2	2.05	0.56
1:F:347:ASN:O	1:F:347:ASN:ND2	2.38	0.56
1:FD:236:VAL:HG23	1:FD:237:THR:HG23	1.86	0.56
2:FE:324:VAL:HG13	2:FE:327:ASP:H	1.69	0.56
1:FF:2:ARG:HH12	2:FG:71:GLU:HB2	1.70	0.56
1:FF:322:SER:HB2	42:2r:362:PHE:HB2	1.87	0.56
1:FH:347:ASN:ND2	2:FI:178:SER:O	2.39	0.56
1:FL:116:VAL:HA	1:FL:119:VAL:HG12	1.87	0.56
2:GA:122:ILE:HG21	2:GA:157:LEU:HD11	1.85	0.56
2:GA:195:LEU:HD21	2:GA:264:ARG:HE	1.69	0.56
1:GB:23:VAL:O	1:GB:27:GLU:HG3	2.06	0.56
1:GF:207:LEU:HB3	1:GF:225:LEU:HD22	1.87	0.56
2:GG:377:MET:HE3	2:GG:379:ALA:HB2	1.87	0.56
1:GH:191:GLN:O	1:GH:195:ASN:HB2	2.05	0.56
1:GH:272:PRO:HD3	1:GH:364:SER:HA	1.87	0.56
2:GI:97:GLU:OE1	2:GI:105:ARG:NH1	2.38	0.56
1:H:66:MET:HE2	1:H:116:VAL:HB	1.87	0.56
1:H:156:ARG:HH22	1:H:164:MET:HG2	1.70	0.56
2:HA:257:THR:HG21	1:HB:98:GLY:O	2.05	0.56
2:HC:116:ASP:OD1	2:HC:117:LEU:N	2.38	0.56
2:HC:288:VAL:HB	2:HC:327:ASP:HB3	1.87	0.56
1:HD:324:LYS:HZ1	2:HE:222:PRO:HG2	1.68	0.56
1:HF:51:PHE:HB3	1:HF:59:TYR:HB3	1.86	0.56
2:HI:208:ALA:HB2	2:HI:304:LYS:HG2	1.85	0.56
1:I:77:ARG:HA	1:I:82:GLY:HA3	1.88	0.56
1:I:221:THR:HG23	1:I:224:ASP:H	1.69	0.56
1:IB:209:ASP:OD1	1:IB:213:ARG:NE	2.38	0.56
2:IC:98:ASP:OD1	2:IC:99:ALA:N	2.38	0.56
1:ID:48:ASN:O	1:ID:62:ARG:NH2	2.34	0.56
2:IG:139:HIS:O	2:IG:170:THR:HA	2.05	0.56
2:II:240:ALA:HA	2:II:243:ARG:HE	1.70	0.56
1:IJ:267:MET:HG3	1:IJ:299:MET:SD	2.46	0.56
2:IK:254:GLU:O	2:IK:258:ASN:ND2	2.38	0.56
2:IK:270:THR:HG23	2:IK:302:LEU:HB2	1.86	0.56
1:IL:31:ASP:HB2	1:IL:37:GLN:OE1	2.04	0.56
1:JA:153:SER:HA	1:JA:195:ASN:ND2	2.18	0.56
2:JD:116:ASP:OD1	2:JD:117:LEU:N	2.37	0.56
2:JD:240:ALA:HA	2:JD:243:ARG:HE	1.70	0.56
1:JG:215:LEU:HB3	1:JG:217:LEU:HG	1.87	0.56
1:JG:371:ASN:OD1	1:JG:372:THR:N	2.38	0.56
1:JK:187:LEU:HD22	1:JK:403:MET:HE1	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JL:82:THR:HG22	52:3U:239:TYR:CZ	2.40	0.56
1:KA:128:ASP:OD1	1:KA:129:CYS:N	2.38	0.56
2:KD:2:ARG:O	2:KD:51:THR:OG1	2.21	0.56
2:KD:26:LEU:HD12	15:0f:237:LEU:HD21	1.88	0.56
2:KD:392:ASP:HB3	2:KD:425:LEU:HD23	1.86	0.56
1:KE:22:GLU:HG2	1:KE:81:TYR:CD2	2.40	0.56
1:KG:11:GLN:HA	1:KG:72:THR:HG21	1.88	0.56
1:KK:237:THR:OG1	1:KK:241:ARG:NH1	2.37	0.56
2:LB:180:ALA:HB3	2:LB:183:GLU:HB2	1.87	0.56
1:LE:171:PRO:HB2	1:LE:181:GLU:OE2	2.05	0.56
2:LF:139:HIS:O	2:LF:170:THR:HA	2.05	0.56
1:LG:272:PRO:HD3	1:LG:364:SER:HA	1.86	0.56
2:LH:136:MET:HE2	2:LH:235:VAL:HG13	1.87	0.56
2:LH:286:LEU:O	2:LH:373:ARG:NH1	2.34	0.56
1:LI:2:ARG:HH21	1:LI:240:LEU:HD23	1.70	0.56
1:LI:163:ILE:HG21	1:LI:250:LEU:HB3	1.87	0.56
2:LJ:116:ASP:OD2	2:LJ:117:LEU:N	2.38	0.56
1:LK:322:SER:OG	1:LK:325:GLU:OE1	2.20	0.56
2:LL:111:GLY:HA2	2:LL:149:LEU:HD12	1.86	0.56
1:LM:61:PRO:HD3	1:LM:84:LEU:HG	1.86	0.56
1:LM:181:GLU:CD	1:LM:182:PRO:HD3	2.31	0.56
1:LM:363:MET:HB3	23:1F:383:ASN:ND2	2.20	0.56
1:LO:171:PRO:HB2	1:LO:181:GLU:OE2	2.05	0.56
1:M:2:ARG:HH21	1:M:240:LEU:HD23	1.70	0.56
1:M:2:ARG:HH11	2:MA:72:PRO:HD2	1.70	0.56
1:MF:11:GLN:HA	1:MF:72:THR:HG21	1.87	0.56
1:MF:22:GLU:HG2	1:MF:81:TYR:HB2	1.87	0.56
1:MH:267:MET:HE3	1:MH:301:GLN:HE21	1.70	0.56
2:MK:88:ASN:ND2	2:MK:90:GLU:OE2	2.38	0.56
2:MK:252:LEU:HA	2:MK:255:PHE:CE1	2.40	0.56
2:MK:387:VAL:O	2:MK:391:ILE:HG12	2.06	0.56
1:MN:423:GLN:NE2	1:MN:427:ASP:OD1	2.38	0.56
1:N:167:PHE:CD1	1:N:233:MET:HE1	2.41	0.56
1:N:350:LYS:HA	2:NA:180:ALA:HA	1.88	0.56
2:NK:166:LYS:N	2:NK:199:ASP:OD2	2.37	0.56
1:O:101:TRP:HB3	1:O:398:TYR:HE1	1.71	0.56
2:OA:408:TYR:HB3	2:OA:413:MET:HE3	1.86	0.56
2:OA:413:MET:HG2	2:OA:417:GLU:HG3	1.86	0.56
1:OB:164:MET:HB2	1:OB:197:ASP:H	1.69	0.56
2:OC:326:LYS:NZ	1:OD:219:THR:HA	2.14	0.56
2:OE:178:SER:OG	2:OE:183:GLU:OE2	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OE:384:ILE:HD11	2:OE:432:TYR:CZ	2.40	0.56
2:OG:67:PHE:HB2	2:OG:92:LEU:HD12	1.86	0.56
2:OG:406:HIS:HA	2:OG:409:VAL:HG22	1.87	0.56
1:OH:51:PHE:O	1:OH:62:ARG:NH1	2.38	0.56
1:OL:152:ILE:HD13	1:OL:164:MET:HE2	1.87	0.56
1:OL:334:GLN:HE21	1:OL:341:PHE:HE2	1.53	0.56
2:OM:226:ASN:HA	2:OM:229:ARG:HG2	1.86	0.56
2:PA:31:GLN:NE2	2:PA:35:SER:OG	2.39	0.56
1:PB:236:VAL:HG13	1:PB:237:THR:HG23	1.87	0.56
1:PD:327:ASP:OD2	2:PE:177:VAL:HG13	2.06	0.56
2:PE:71:GLU:HB3	2:PE:98:ASP:HB3	1.86	0.56
1:PF:10:GLY:O	1:PF:14:ASN:ND2	2.39	0.56
1:PF:245:GLN:NE2	2:PG:224:TYR:HB2	2.19	0.56
2:PG:172:TYR:HE2	2:PG:388:PHE:HE1	1.53	0.56
1:PH:311:LEU:HG	1:PH:342:ILE:HD13	1.88	0.56
2:PI:117:LEU:O	2:PI:121:ARG:HG2	2.04	0.56
1:PJ:325:GLU:OE2	2:PK:221:ARG:HG3	2.05	0.56
1:PL:293:MET:HG3	1:PL:367:PHE:HB2	1.87	0.56
1:QA:289:LEU:HD11	1:QA:363:MET:HG3	1.87	0.56
1:QE:63:ALA:O	1:QE:89:ASN:ND2	2.36	0.56
2:QH:239:THR:OG1	2:QH:243:ARG:NH1	2.38	0.56
1:QK:41:ASP:OD2	41:2e:148:ASN:HA	2.04	0.56
2:QL:139:HIS:O	2:QL:170:THR:HA	2.05	0.56
2:R:169:TYR:CE2	2:R:235:VAL:HG22	2.40	0.56
2:R:353:CYS:HB2	1:RA:177:ASP:HB2	1.87	0.56
1:RA:174:ARG:H	1:RA:380:ARG:NH2	2.03	0.56
2:RF:21:TRP:CZ2	2:RF:65:CYS:HB3	2.41	0.56
2:RF:104:ALA:HB2	2:RF:413:MET:HE3	1.87	0.56
1:RG:236:VAL:HG13	1:RG:237:THR:HG23	1.88	0.56
2:RH:362:VAL:HG22	2:RH:370:LYS:HB3	1.86	0.56
1:RK:122:LYS:O	1:SJ:291:GLN:NE2	2.31	0.56
2:SA:301:MET:HG2	2:SA:303:THR:H	1.70	0.56
1:SB:252:LYS:HG2	2:SC:100:ALA:HA	1.86	0.56
2:SC:159:VAL:HG21	55:3b:180:ILE:HG21	1.88	0.56
2:SC:431:ASP:HB2	55:3b:164:MET:HE2	1.86	0.56
1:SD:139:LEU:HG	1:SD:168:SER:HB2	1.86	0.56
2:SE:211:ASP:OD2	2:SE:304:LYS:NZ	2.36	0.56
2:SE:254:GLU:O	2:SE:258:ASN:ND2	2.38	0.56
2:SG:56:THR:HG22	21:0w:221:LYS:HE3	1.87	0.56
1:SH:237:THR:HG22	1:SH:250:LEU:HD21	1.88	0.56
1:SJ:371:ASN:OD1	1:SJ:372:THR:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SK:317:LEU:HD23	2:SK:375:VAL:HG21	1.87	0.56
1:T:35:THR:HG23	1:T:37:GLN:HE22	1.69	0.56
1:TB:334:GLN:HE22	1:TB:348:ASN:HB2	1.70	0.56
1:TD:83:GLN:O	1:UD:281:TYR:OH	2.13	0.56
2:TI:9:ILE:HG22	2:TI:146:GLY:HA2	1.87	0.56
1:TL:134:GLN:HA	1:TL:165:MET:HG2	1.87	0.56
1:UB:107:THR:HG21	1:UB:401:GLU:HB3	1.87	0.56
2:UC:228:ASN:HA	2:UC:231:ILE:HG22	1.87	0.56
2:UE:75:VAL:HG11	2:UE:94:SER:HB2	1.85	0.56
2:UE:138:PHE:HE2	2:UE:235:VAL:HG21	1.70	0.56
1:UF:131:GLN:HE22	1:UF:250:LEU:H	1.54	0.56
1:UH:267:MET:HE1	1:UH:373:CYS:SG	2.45	0.56
2:UK:173:PRO:HB3	2:UK:183:GLU:HG2	1.88	0.56
2:VC:257:THR:HG21	1:VD:98:GLY:O	2.06	0.56
2:VE:172:TYR:CD2	2:VE:203:MET:HG3	2.40	0.56
2:VE:265:ILE:HG21	2:VE:313:MET:HE1	1.86	0.56
1:VF:286:VAL:HG22	1:VF:321:MET:HE3	1.87	0.56
1:VH:163:ILE:HG21	1:VH:250:LEU:HB3	1.87	0.56
2:VK:72:PRO:O	2:VK:76:ASP:HB2	2.03	0.56
1:VL:207:LEU:HD11	1:VL:300:MET:HE3	1.88	0.56
1:VL:287:ALA:HB2	1:VL:325:GLU:HG2	1.88	0.56
1:VL:345:ILE:O	1:VL:348:ASN:ND2	2.38	0.56
1:W:66:MET:HB3	1:W:147:MET:HE2	1.86	0.56
2:WC:217:LEU:HD21	2:WC:275:VAL:HG22	1.87	0.56
2:WG:120:ASP:OD1	2:WG:123:ARG:NH2	2.38	0.56
2:WG:204:LEU:HD13	2:WG:231:ILE:HD12	1.87	0.56
2:WI:228:ASN:OD1	71:WI:501:GTP:N1	2.36	0.56
1:WL:125:GLU:HB3	3:XF:17:ILE:HB	1.87	0.56
1:WL:347:ASN:HD22	2:WM:178:SER:HG	1.51	0.56
3:XB:156:VAL:HG11	3:XB:162:ILE:HD11	1.87	0.56
5:XN:45:SER:HB3	9:0L:363:GLU:HB3	1.87	0.56
6:0:244:ARG:NH1	6:0:262:THR:OG1	2.37	0.56
7:0C:364:ARG:NH2	7:0C:380:ASP:OD1	2.38	0.56
9:0M:431:ASP:OD1	9:0M:434:GLY:N	2.37	0.56
9:0N:577:TRP:CD1	9:0N:584:CYS:HA	2.41	0.56
14:0c:313:THR:HG23	14:0c:316:MET:H	1.68	0.56
14:0d:289:LEU:O	14:0d:293:MET:HG2	2.05	0.56
16:0l:426:LYS:HB2	16:0l:428:ILE:HG12	1.87	0.56
16:0k:536:ASN:O	16:0k:540:GLN:HG3	2.06	0.56
20:0t:225:ALA:HB1	20:0t:261:GLU:HB3	1.87	0.56
21:0v:52:ASP:OD1	21:0v:53:ARG:N	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:1H:317:GLY:O	24:1H:350:ASN:ND2	2.34	0.56
24:1I:30:ARG:NH1	40:2Z:369:GLN:H	2.03	0.56
24:1I:114:ARG:HD3	24:1I:116:ARG:HD3	1.87	0.56
24:1I:540:GLN:NE2	24:1I:612:ALA:O	2.37	0.56
24:1K:433:ASN:HB2	24:1K:435:LYS:NZ	2.20	0.56
28:1d:192:PRO:HD2	28:1d:194:LYS:HZ3	1.70	0.56
28:1g:244:ARG:HG3	28:1g:245:PRO:HD2	1.86	0.56
31:1r:168:ALA:HA	31:1r:171:LYS:HG2	1.87	0.56
33:2I:190:PRO:HG2	33:2I:260:LEU:HD13	1.86	0.56
41:2i:424:GLU:OE2	41:2i:427:ARG:NH2	2.38	0.56
41:2o:180:GLN:HA	41:2o:183:LYS:HG2	1.86	0.56
44:2v:297:MET:SD	44:2v:301:ARG:HD2	2.45	0.56
44:2w:43:CYS:HB3	44:2w:52:TYR:CE1	2.40	0.56
45:2y:345:LYS:HD2	45:2y:346:TRP:HD1	1.69	0.56
48:3G:45:GLU:HG3	48:3G:48:MET:HE2	1.87	0.56
49:3Q:308:THR:HG22	49:3Q:310:LEU:H	1.71	0.56
56:3d:132:LEU:HD23	56:3d:135:LYS:HD3	1.87	0.56
59:4P:1:MET:N	59:4P:3:SER:O	2.31	0.56
66:5L:45:ILE:HG13	66:5L:248:LEU:HB3	1.86	0.56
67:5O:62:GLY:HA3	67:5O:80:MET:HE2	1.87	0.56
67:5O:85:ALA:HB1	67:5O:101:ILE:HD12	1.87	0.56
1:AF:186:THR:HG23	1:AF:415:MET:HG3	1.87	0.56
1:AH:208:TYR:CE1	1:AH:225:LEU:HD11	2.41	0.56
1:AJ:217:LEU:HG	1:AJ:220:PRO:HD3	1.85	0.56
2:AM:192:HIS:ND1	2:AM:424:ASP:OD2	2.34	0.56
1:B:10:GLY:HA2	1:B:143:THR:HG23	1.87	0.56
1:BF:66:MET:SD	1:BF:147:MET:HE2	2.45	0.56
2:BK:209:ILE:O	2:BK:213:THR:HG23	2.05	0.56
2:BK:260:VAL:HB	1:BL:397:TRP:HZ2	1.68	0.56
2:BK:326:LYS:HB3	1:BL:208:TYR:CE2	2.41	0.56
1:BL:148:GLY:O	1:BL:152:ILE:HG12	2.05	0.56
2:BM:88:ASN:HB2	2:BM:91:GLN:HE21	1.70	0.56
2:C:392:ASP:OD2	2:C:422:ARG:NH2	2.30	0.56
1:CA:397:TRP:O	1:CA:400:GLY:N	2.37	0.56
2:CB:301:MET:HG2	2:CB:303:THR:H	1.70	0.56
2:CJ:406:HIS:HA	2:CJ:409:VAL:HG22	1.88	0.56
1:DA:148:GLY:O	1:DA:152:ILE:HG13	2.06	0.56
2:DD:270:THR:HG22	2:DD:378:ILE:HD12	1.87	0.56
2:DJ:26:LEU:HD12	2:DJ:363:VAL:HG12	1.87	0.56
2:DJ:142:GLY:HA3	2:DJ:183:GLU:HG3	1.86	0.56
2:DL:395:PHE:HE2	2:DL:422:ARG:HB2	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DM:325:GLU:OE1	1:DM:329:GLN:NE2	2.38	0.56
2:EA:195:LEU:HD12	2:EA:428:LEU:HD22	1.88	0.56
2:EG:117:LEU:HD22	63:4I:255:PRO:HG3	1.86	0.56
1:EJ:203:ASP:HB3	1:EJ:301:GLN:HA	1.86	0.56
1:F:139:LEU:HA	1:F:145:SER:HB3	1.87	0.56
1:F:344:TRP:CG	2:FA:401:LYS:HZ3	2.24	0.56
2:FA:56:THR:HG22	2:FA:58:ALA:H	1.70	0.56
1:GD:73:MET:HA	1:GD:73:MET:HE3	1.87	0.56
1:GD:247:ASN:ND2	2:GE:73:THR:HG21	2.19	0.56
2:GI:319:TYR:HB3	2:GI:323:VAL:HG11	1.87	0.56
2:HC:319:TYR:CD2	2:HC:328:VAL:HG22	2.41	0.56
2:HC:320:ARG:HD3	2:HC:360:PRO:HG3	1.87	0.56
2:HG:416:GLY:O	2:HG:420:GLU:HG3	2.05	0.56
1:HL:99:ASN:ND2	1:HL:178:THR:HG21	2.21	0.56
1:HL:346:PRO:HG2	2:HM:394:LYS:HZ2	1.71	0.56
2:HM:252:LEU:HA	2:HM:255:PHE:CE1	2.41	0.56
2:IC:173:PRO:HG2	2:IC:187:CYS:HB2	1.88	0.56
2:IE:175:PRO:HA	2:IE:390:ARG:HE	1.71	0.56
2:IG:40:LYS:O	47:3D:184:GLN:NE2	2.39	0.56
2:IK:136:MET:HE1	2:IK:167:LEU:HD13	1.87	0.56
2:JD:414:GLU:OE2	2:NC:215:ARG:NH2	2.38	0.56
1:JE:252:LYS:O	1:JE:256:ASN:ND2	2.26	0.56
1:JE:289:LEU:O	1:JE:293:MET:HG3	2.06	0.56
1:JI:113:ILE:HG12	1:JI:117:LEU:HD23	1.85	0.56
2:JJ:319:TYR:HB3	2:JJ:323:VAL:HG21	1.87	0.56
2:JL:265:ILE:HG21	2:JL:313:MET:HE1	1.86	0.56
2:K:204:LEU:HD13	2:K:231:ILE:HD13	1.86	0.56
1:KC:94:GLN:NE2	35:2N:175:ASP:O	2.34	0.56
2:KD:224:TYR:HA	2:KD:227:VAL:HG22	1.87	0.56
2:KD:335:ILE:HG23	2:KD:341:ILE:HD11	1.88	0.56
1:KE:139:LEU:HG	1:KE:168:SER:HB2	1.87	0.56
1:KE:163:ILE:HG21	1:KE:250:LEU:HB3	1.88	0.56
2:KF:50:ASN:O	2:KF:64:ARG:NH1	2.38	0.56
1:KI:423:GLN:NE2	1:KI:427:ASP:OD2	2.38	0.56
1:LC:202:ILE:HD12	1:LC:300:MET:HE3	1.87	0.56
2:LF:257:THR:HG21	1:LG:98:GLY:O	2.06	0.56
2:LL:217:LEU:HD21	2:LL:275:VAL:HG22	1.86	0.56
1:LO:8:GLN:HG2	1:LO:17:GLY:HA3	1.87	0.56
1:M:320:ARG:HH22	45:2y:149:GLN:HG3	1.71	0.56
1:MB:244:GLY:HA2	1:MB:355:ASP:HB2	1.88	0.56
2:MG:143:GLY:HA3	71:MG:501:GTP:H5'	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MI:258:ASN:HD21	1:MJ:178:THR:HG23	1.68	0.56
2:MK:423:GLU:OE1	14:0d:47:GLY:HA2	2.05	0.56
1:NB:267:MET:HE3	1:NB:371:ASN:HB3	1.87	0.56
2:NE:217:LEU:HD21	2:NE:275:VAL:HG22	1.87	0.56
1:O:389:PHE:O	1:O:392:LYS:NZ	2.30	0.56
1:OD:136:SER:HB3	1:OD:233:MET:HE1	1.87	0.56
2:OI:1:MET:N	2:OI:3:GLU:OE2	2.38	0.56
1:OL:245:GLN:NE2	2:OM:224:TYR:HB2	2.21	0.56
2:OM:229:ARG:HH21	28:1h:149:MET:HE2	1.69	0.56
2:OM:269:LEU:HB2	2:OM:379:ALA:HB3	1.87	0.56
2:PA:150:GLY:O	2:PA:154:LEU:HD23	2.06	0.56
2:PE:316:CYS:HB3	2:PE:378:ILE:HG23	1.88	0.56
1:RA:68:LEU:HD22	1:RA:97:ALA:HB2	1.87	0.56
2:RB:158:SER:HB3	2:RB:197:HIS:HD2	1.70	0.56
2:RF:160:ASP:OD1	59:3p:117:THR:HG22	2.04	0.56
2:RJ:262:TYR:HB2	2:RJ:265:ILE:HG12	1.88	0.56
1:TB:18:SER:O	1:TB:22:GLU:HG3	2.05	0.56
2:TG:437:ALA:O	1:TH:391:ARG:NH2	2.39	0.56
2:TI:297:GLU:OE2	61:3x:51:TRP:NE1	2.38	0.56
2:UE:119:LEU:HD11	2:UE:156:ARG:HG2	1.87	0.56
1:UF:132:GLY:HA3	1:UF:163:ILE:HG22	1.87	0.56
2:UI:112:LYS:HE3	62:4B:320:TYR:HB3	1.88	0.56
1:VB:272:PRO:HD3	1:VB:364:SER:HA	1.87	0.56
2:VC:188:VAL:O	2:VC:191:THR:OG1	2.22	0.56
1:WJ:236:VAL:HG13	1:WJ:237:THR:HG23	1.87	0.56
9:0M:39:LEU:HD11	9:0M:615:ALA:HB2	1.87	0.56
9:0M:62:ASP:HB3	9:0M:80:GLN:HE21	1.70	0.56
9:0N:428:VAL:HG12	9:0N:439:THR:HG22	1.87	0.56
10:0S:308:ARG:HH21	10:0S:309:ARG:NH1	2.03	0.56
11:0U:225:PHE:HB3	11:0U:271:VAL:HB	1.87	0.56
23:1B:361:GLU:HA	23:1B:364:LYS:HG2	1.86	0.56
25:1O:65:GLY:HA2	54:3a:22:ASN:HD21	1.71	0.56
28:1h:5:HIS:NE2	41:2o:355:ASN:OD1	2.36	0.56
30:1o:96:LEU:HG	30:1o:100:LEU:HD12	1.87	0.56
37:2S:38:MET:HG2	37:2S:241:CYS:HB3	1.88	0.56
41:2k:272:ASP:OD1	41:2k:273:GLU:N	2.38	0.56
51:X1:197:ASN:HD22	51:X1:214:GLU:HB2	1.71	0.56
55:3b:33:GLN:OE1	55:3b:36:GLN:NE2	2.36	0.56
1:A:324:LYS:NZ	2:AA:222:PRO:HD2	2.21	0.56
1:AF:209:ASP:OD1	1:AF:213:ARG:HD3	2.06	0.56
1:AH:61:PRO:HD3	1:AH:84:LEU:HG	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:68:LEU:HD12	1:AH:97:ALA:HB2	1.88	0.56
2:AI:425:LEU:O	2:AI:428:LEU:N	2.38	0.56
1:AL:61:PRO:HD3	1:AL:84:LEU:HG	1.88	0.56
1:AN:337:ASN:HD21	4:XR:97:PHE:H	1.53	0.56
1:BB:173:PRO:HA	1:BB:176:SER:HB2	1.88	0.56
1:BD:1:MET:HE2	2:BE:72:PRO:HG3	1.87	0.56
1:BF:311:LEU:N	1:BF:370:ASN:O	2.37	0.56
1:BJ:316:LEU:HB2	1:BJ:366:THR:HG22	1.87	0.56
1:CG:332:ASN:OD1	1:CG:333:VAL:N	2.39	0.56
1:CI:272:PRO:HG3	1:CI:284:LEU:HD11	1.87	0.56
2:CJ:102:ASN:HB3	2:CJ:105:ARG:HB3	1.88	0.56
2:CJ:215:ARG:HH22	2:CJ:299:ALA:C	2.13	0.56
2:CL:316:CYS:SG	2:CL:378:ILE:HB	2.46	0.56
2:DH:71:GLU:OE1	2:DH:73:THR:HG22	2.06	0.56
1:DI:236:VAL:HG13	1:DI:237:THR:HG23	1.86	0.56
2:DJ:55:GLU:O	2:EI:285:GLN:NE2	2.37	0.56
2:DJ:172:TYR:CD1	2:DJ:203:MET:HG3	2.39	0.56
1:ED:173:PRO:HD2	1:ED:380:ARG:HH21	1.69	0.56
1:ED:350:LYS:HD2	2:EE:179:THR:O	2.05	0.56
2:EE:88:ASN:ND2	2:EE:90:GLU:OE2	2.39	0.56
1:EJ:61:PRO:HD3	1:EJ:84:LEU:HG	1.87	0.56
1:EJ:294:PHE:HE2	1:EJ:367:PHE:HE2	1.54	0.56
2:EK:7:ILE:HB	2:EK:137:VAL:HG13	1.86	0.56
1:F:237:THR:HG22	1:F:250:LEU:HD21	1.86	0.56
1:F:323:THR:HA	1:F:326:VAL:HG22	1.88	0.56
1:FF:207:LEU:HB3	1:FF:225:LEU:HG	1.87	0.56
1:GJ:83:GLN:O	1:HJ:281:TYR:OH	2.13	0.56
2:GK:155:GLU:HG3	2:GK:197:HIS:CE1	2.40	0.56
2:HE:167:LEU:HD23	2:HE:200:VAL:HB	1.88	0.56
2:HM:311:LYS:H	2:HM:382:THR:HB	1.69	0.56
1:IH:371:ASN:OD1	1:IH:372:THR:N	2.38	0.56
1:JE:150:LEU:O	1:JE:154:LYS:HG2	2.05	0.56
2:JN:252:LEU:HA	2:JN:255:PHE:CE1	2.41	0.56
1:KA:311:LEU:HA	1:KA:342:ILE:HD12	1.87	0.56
1:KC:57:GLY:O	29:1k:146:GLN:NE2	2.39	0.56
1:KE:208:TYR:CE1	1:KE:225:LEU:HD11	2.40	0.56
1:KI:99:ASN:ND2	1:KI:178:THR:OG1	2.39	0.56
1:KM:74:ASP:OD1	1:KM:75:SER:N	2.39	0.56
1:KM:324:LYS:NZ	2:KN:213:THR:OG1	2.39	0.56
2:LB:120:ASP:OD1	2:LB:123:ARG:NH2	2.39	0.56
1:LC:344:TRP:CE2	2:LD:401:LYS:HD2	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LG:68:LEU:HD12	1:LG:97:ALA:HB2	1.87	0.56
2:LJ:1:MET:HE1	1:LK:70:PRO:HG2	1.88	0.56
1:LK:49:VAL:HG11	1:LK:241:ARG:HG2	1.88	0.56
1:LM:252:LYS:HG3	2:LN:100:ALA:HA	1.88	0.56
1:LO:66:MET:HE2	1:LO:116:VAL:HG11	1.86	0.56
1:MB:340:TYR:OH	13:0Y:77:GLY:O	2.13	0.56
1:MB:386:THR:O	1:MB:390:ARG:HG2	2.05	0.56
1:MD:37:GLN:HE21	45:2y:253:LEU:HD21	1.71	0.56
2:MG:324:VAL:HG13	2:MG:327:ASP:H	1.71	0.56
2:MM:250:VAL:HG21	2:MM:318:MET:HE1	1.87	0.56
2:NI:142:GLY:HA2	2:NI:183:GLU:HG3	1.87	0.56
1:NL:421:GLU:HA	1:NL:424:GLN:HE21	1.71	0.56
1:O:2:ARG:N	1:O:129:CYS:O	2.38	0.56
2:OA:257:THR:HG1	1:OB:397:TRP:CG	2.23	0.56
1:OB:113:ILE:HA	1:OB:116:VAL:HG22	1.86	0.56
1:OB:301:GLN:NE2	1:OB:377:MET:HG2	2.21	0.56
2:OE:273:ALA:HB3	2:OE:295:VAL:HG23	1.88	0.56
1:OF:150:LEU:O	1:OF:154:LYS:HG2	2.05	0.56
2:OM:364:PRO:HB2	28:1h:152:PRO:HB2	1.88	0.56
1:PD:345:ILE:HA	2:PE:398:MET:HE1	1.86	0.56
2:PE:89:PRO:HG2	2:QD:280:LYS:HG2	1.86	0.56
1:PH:404:ASP:OD1	1:PH:405:GLU:N	2.37	0.56
2:PI:116:ASP:OD1	2:PI:117:LEU:N	2.37	0.56
2:PI:195:LEU:HD21	2:PI:428:LEU:HD13	1.87	0.56
1:PJ:103:LYS:NZ	1:PJ:401:GLU:OE2	2.38	0.56
2:QH:346:TRP:CD1	1:QI:391:ARG:HG3	2.41	0.56
2:QJ:293:ASN:O	2:QJ:297:GLU:HG2	2.06	0.56
2:QL:212:LEU:HD21	2:QL:275:VAL:HG21	1.87	0.56
1:RA:226:ASN:OD1	69:RA:500:GDP:N1	2.36	0.56
2:RF:66:LEU:HD22	2:RF:122:ILE:HD11	1.87	0.56
1:RI:236:VAL:HA	1:RI:316:LEU:HD12	1.85	0.56
2:RJ:258:ASN:ND2	2:RJ:352:LYS:HD3	2.21	0.56
1:S:235:GLY:HA3	1:S:366:THR:HG21	1.87	0.56
1:SH:66:MET:HE3	1:SH:147:MET:HE3	1.88	0.56
2:SI:69:ASP:OD2	2:SI:70:LEU:N	2.39	0.56
1:TB:267:MET:HE2	1:TB:299:MET:SD	2.45	0.56
2:UA:141:VAL:HG13	2:UA:170:THR:HG21	1.86	0.56
1:UD:2:ARG:HH22	2:UE:72:PRO:HD2	1.71	0.56
2:UG:11:GLN:O	2:UG:15:GLN:HG2	2.05	0.56
1:UL:97:ALA:HB2	1:UL:143:THR:HB	1.88	0.56
1:V:268:MET:HB2	1:V:300:MET:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VD:290:THR:HA	1:VD:293:MET:HE3	1.87	0.56
1:VF:324:LYS:HD3	2:VG:222:PRO:HD2	1.87	0.56
2:VG:324:VAL:HG13	2:VG:327:ASP:H	1.70	0.56
1:VH:134:GLN:HA	1:VH:165:MET:HB2	1.88	0.56
1:VJ:324:LYS:HD3	2:VK:222:PRO:HG2	1.86	0.56
1:W:229:VAL:HG12	1:W:233:MET:HE3	1.87	0.56
2:WA:328:VAL:O	2:WA:332:ILE:HG12	2.06	0.56
2:WC:68:LEU:HD23	2:WC:93:VAL:HB	1.88	0.56
3:X:73:LEU:HB2	3:X:167:PHE:HB3	1.88	0.56
4:XO:233:GLY:O	4:XO:237:VAL:HG23	2.05	0.56
7:0D:104:MET:HE3	11:0U:294:VAL:HA	1.88	0.56
9:0M:164:HIS:ND1	9:0M:167:LYS:HG2	2.21	0.56
10:0R:243:GLU:OE2	10:0R:246:ARG:NH2	2.39	0.56
13:0Y:156:THR:HA	32:2B:228:TYR:CZ	2.40	0.56
19:0r:283:THR:HG21	19:0r:294:GLY:O	2.04	0.56
26:1Q:718:HIS:HD1	26:1Q:725:TRP:CD1	2.24	0.56
27:1T:817:ALA:HA	27:1T:820:TYR:HE1	1.69	0.56
28:1b:43:TYR:C	28:1b:45:ASP:N	2.63	0.56
33:2G:23:PRO:HG2	33:2G:49:LEU:HB3	1.87	0.56
41:2i:460:ASP:O	41:2i:464:ARG:HG3	2.05	0.56
41:2k:161:TYR:HB3	41:2k:165:ARG:NH1	2.20	0.56
64:5C:97:LEU:HD11	65:5H:87:LYS:HG3	1.87	0.56
1:AD:332:ASN:O	1:AD:336:LYS:HG2	2.05	0.56
2:AE:212:LEU:O	2:AE:216:SER:OG	2.13	0.56
1:AF:63:ALA:O	1:AF:89:ASN:ND2	2.35	0.56
1:AN:226:ASN:OD1	69:AN:500:GDP:N1	2.38	0.56
1:BB:107:THR:OG1	1:BB:401:GLU:OE2	2.17	0.56
2:BC:204:LEU:HD22	2:BC:231:ILE:HD12	1.87	0.56
1:BF:73:MET:HA	1:BF:76:VAL:HG12	1.86	0.56
2:BM:33:ASP:OD2	2:BM:34:GLY:N	2.39	0.56
2:CB:170:THR:HG21	2:CB:194:LEU:HD21	1.87	0.56
2:CH:44:VAL:HG22	2:CH:45:GLU:H	1.69	0.56
1:CI:330:MET:HG2	1:CI:349:ILE:HG21	1.87	0.56
2:CJ:257:THR:HG1	1:CK:397:TRP:CG	2.24	0.56
1:CK:289:LEU:O	1:CK:293:MET:HG3	2.04	0.56
1:DC:28:HIS:HA	1:DC:43:GLN:HG2	1.87	0.56
1:DM:20:PHE:HA	1:DM:230:ALA:HB1	1.88	0.56
2:EG:248:LEU:HB2	2:EG:355:ILE:H	1.70	0.56
1:EH:324:LYS:NZ	2:EI:220:GLU:O	2.33	0.56
1:EL:113:ILE:HA	1:EL:116:VAL:HG12	1.88	0.56
1:EL:175:VAL:HG11	1:EL:204:ASN:HB2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:4:ILE:HG13	1:F:131:GLN:HB3	1.88	0.56
2:FG:1:MET:N	2:FG:3:GLU:OE2	2.37	0.56
2:FG:332:ILE:O	2:FG:336:LYS:HG2	2.05	0.56
1:IH:206:ALA:HB2	1:IH:302:ALA:HB2	1.87	0.56
1:IJ:86:ARG:NH1	1:IJ:123:GLU:OE2	2.39	0.56
1:JA:159:TYR:HB3	1:JA:162:ARG:HG3	1.85	0.56
2:JD:324:VAL:HG22	19:0r:132:VAL:HG21	1.88	0.56
1:JE:324:LYS:HZ3	2:JF:222:PRO:HD2	1.70	0.56
2:JJ:316:CYS:SG	2:JJ:378:ILE:HB	2.46	0.56
1:JK:200:MET:HE1	1:JK:368:ILE:HG22	1.87	0.56
1:JM:332:ASN:O	1:JM:336:LYS:HG2	2.06	0.56
2:KF:170:THR:HG21	2:KF:194:LEU:HD21	1.87	0.56
2:KH:134:GLY:HA3	2:KH:165:SER:O	2.05	0.56
2:KL:203:MET:HA	2:KL:203:MET:HE3	1.88	0.56
1:LK:12:CYS:O	1:LK:16:ILE:HG12	2.05	0.56
1:LM:3:GLU:HG3	1:LM:49:VAL:HA	1.87	0.56
1:M:144:GLY:N	69:M:500:GDP:O2B	2.31	0.56
1:MJ:159:TYR:HB3	1:MJ:162:ARG:HG3	1.86	0.56
2:MK:159:VAL:HG21	33:2H:33:TYR:HE1	1.69	0.56
1:N:258:VAL:HB	2:NA:407:TRP:HE1	1.70	0.56
2:NA:52:PHE:O	2:NA:64:ARG:HG2	2.06	0.56
2:NA:395:PHE:HD2	2:NA:422:ARG:HD3	1.71	0.56
1:ND:150:LEU:O	1:ND:154:LYS:HG2	2.06	0.56
1:NH:2:ARG:HH12	2:NI:72:PRO:HD2	1.70	0.56
1:NH:267:MET:N	1:NH:369:GLY:O	2.39	0.56
1:NH:404:ASP:OD1	1:NH:405:GLU:N	2.38	0.56
2:NI:237:SER:HA	2:NI:320:ARG:HD2	1.88	0.56
1:NJ:248:SER:HA	1:NJ:252:LYS:HD2	1.88	0.56
2:NK:167:LEU:HD22	2:NK:200:VAL:HB	1.88	0.56
1:NL:113:ILE:HA	1:NL:116:VAL:HG22	1.87	0.56
1:OF:245:GLN:O	2:OG:11:GLN:NE2	2.39	0.56
1:OJ:162:ARG:NH1	2:OK:97:GLU:OE2	2.32	0.56
2:OM:291:ILE:O	2:OM:295:VAL:HG23	2.05	0.56
2:PA:367:ASP:OD1	2:PA:368:LEU:N	2.39	0.56
2:PC:437:ALA:HB1	56:3d:82:LEU:HD13	1.88	0.56
1:PD:237:THR:HG22	1:PD:250:LEU:HD21	1.86	0.56
2:PE:292:THR:OG1	2:PE:319:TYR:OH	2.21	0.56
1:PH:391:ARG:HH11	58:3m:21:ARG:HH21	1.54	0.56
2:PI:251:ASP:H	2:PI:254:GLU:HB3	1.71	0.56
1:PL:187:LEU:O	1:PL:191:GLN:NE2	2.39	0.56
1:QA:65:LEU:HB2	1:QA:90:PHE:HA	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QA:237:THR:HG22	1:QA:250:LEU:HD21	1.88	0.56
2:QD:169:TYR:HA	2:QD:202:THR:HB	1.88	0.56
2:QH:175:PRO:HG3	2:QH:304:LYS:HG2	1.88	0.56
2:QL:21:TRP:CZ2	2:QL:65:CYS:HB3	2.41	0.56
2:RB:53:PHE:HB3	2:RB:61:HIS:HB3	1.87	0.56
2:RB:392:ASP:OD1	2:RB:393:HIS:N	2.39	0.56
1:RI:32:PRO:HA	1:RI:84:LEU:HD11	1.87	0.56
1:RK:125:GLU:OE2	59:3p:246:ALA:N	2.38	0.56
1:SD:121:ARG:NH1	1:SD:158:GLU:OE2	2.38	0.56
1:SH:215:LEU:HD11	1:SH:228:LEU:HD21	1.86	0.56
2:SK:237:SER:HA	2:SK:320:ARG:HD2	1.88	0.56
2:TA:71:GLU:OE1	2:TA:73:THR:OG1	2.23	0.56
2:TA:238:LEU:HD11	2:TA:378:ILE:HG21	1.88	0.56
2:TA:251:ASP:H	2:TA:254:GLU:HG3	1.70	0.56
1:TD:113:ILE:HG13	1:TD:116:VAL:HB	1.87	0.56
2:TE:390:ARG:O	2:TE:394:LYS:HG3	2.06	0.56
1:TF:45:GLU:HG2	1:TF:46:ARG:HG2	1.86	0.56
1:VB:7:CYS:HB3	1:VB:66:MET:HE2	1.87	0.56
1:VB:156:ARG:HH22	1:VB:197:ASP:CG	2.14	0.56
2:VC:85:GLN:HG3	9:0L:500:ARG:HH22	1.70	0.56
1:VJ:134:GLN:HG3	1:VJ:165:MET:HG2	1.88	0.56
1:VL:61:PRO:HD3	1:VL:84:LEU:HG	1.88	0.56
2:WA:204:LEU:HD22	2:WA:231:ILE:HD12	1.86	0.56
2:WA:392:ASP:HB3	2:WA:425:LEU:HD23	1.87	0.56
1:WF:293:MET:HG3	1:WF:367:PHE:HB2	1.87	0.56
2:WG:55:GLU:CD	5:XP:12:ARG:HH22	2.13	0.56
6:0A:23:VAL:HA	6:0A:26:MET:HE2	1.87	0.56
6:0A:246:THR:HG21	6:0A:250:LEU:HD11	1.86	0.56
7:0D:358:ARG:NH2	17:0n:57:GLN:OE1	2.38	0.56
9:0M:321:THR:OG1	9:0M:358:GLU:OE1	2.15	0.56
9:0N:383:SER:OG	9:0N:385:TRP:NE1	2.38	0.56
10:0R:72:ARG:NH2	11:0U:245:GLU:OE2	2.38	0.56
18:0p:267:LEU:HD22	49:3Q:29:LEU:HD11	1.86	0.56
20:0t:141:PHE:HE2	20:0t:191:ILE:HB	1.71	0.56
21:0w:485:ARG:HB3	21:0w:486:ARG:NH2	2.20	0.56
21:0v:106:PHE:O	21:0v:110:GLN:HG2	2.06	0.56
24:1J:676:GLU:OE2	24:1J:701:LYS:HG3	2.05	0.56
26:1Q:582:THR:O	26:1Q:586:GLU:HG2	2.06	0.56
28:1b:20:CYS:SG	28:1b:30:CYS:SG	3.00	0.56
31:1r:220:GLN:CD	31:1r:259:ARG:HH21	2.14	0.56
38:2V:164:ILE:HD12	38:2V:165:PRO:HD2	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:2t:234:THR:HG22	43:2t:242:ARG:HH12	1.70	0.56
44:2v:241:ARG:O	44:2v:241:ARG:HD3	2.05	0.56
50:3S:138:SER:O	50:3S:142:LYS:HG2	2.05	0.56
64:5C:216:GLU:O	64:5C:220:GLN:HG2	2.06	0.56
1:AB:324:LYS:O	1:AB:328:GLU:HB2	2.06	0.56
2:AE:286:LEU:O	2:AE:373:ARG:NH1	2.39	0.56
1:BD:139:LEU:HG	1:BD:168:SER:HB2	1.88	0.56
1:CA:267:MET:HE1	1:CA:310:TYR:HE1	1.70	0.56
2:CD:285:GLN:HE22	2:CD:287:SER:HB2	1.71	0.56
2:CJ:1:MET:N	2:CJ:3:GLU:OE2	2.39	0.56
2:CL:212:LEU:O	2:CL:216:SER:HB2	2.06	0.56
1:CM:26:ASP:OD1	24:1K:321:SER:HB3	2.06	0.56
1:DC:239:CYS:HB3	1:DC:248:SER:H	1.71	0.56
2:DF:174:SER:OG	2:DF:177:VAL:O	2.22	0.56
2:DF:298:PRO:HG3	2:DF:308:ARG:HH22	1.70	0.56
1:DG:165:MET:SD	1:DG:200:MET:HE1	2.46	0.56
2:DH:326:LYS:NZ	1:DI:212:PHE:HB2	2.21	0.56
1:E:240:LEU:HD21	1:E:249:ASP:HB3	1.88	0.56
1:EH:260:PHE:HB2	1:EH:263:LEU:HD13	1.88	0.56
2:FA:6:CYS:O	2:FA:65:CYS:HA	2.06	0.56
2:FC:252:LEU:HA	2:FC:255:PHE:CE1	2.41	0.56
1:FD:306:ARG:HB3	63:4I:317:ARG:HG2	1.88	0.56
1:FF:289:LEU:HD11	1:FF:363:MET:HB3	1.85	0.56
1:FH:203:ASP:OD2	1:FH:205:GLU:HG2	2.06	0.56
2:FI:251:ASP:H	2:FI:254:GLU:HG3	1.71	0.56
2:FK:285:GLN:HE22	2:FK:287:SER:HB2	1.71	0.56
1:HB:299:MET:HE3	1:HB:300:MET:N	2.20	0.56
1:HH:178:THR:HB	1:HH:181:GLU:HG3	1.87	0.56
2:HM:164:LYS:HD3	2:HM:165:SER:H	1.70	0.56
1:IH:331:LEU:HD21	2:II:177:VAL:HA	1.87	0.56
2:IK:215:ARG:NH2	2:IK:299:ALA:O	2.39	0.56
2:IM:295:VAL:HG11	2:IM:377:MET:HG2	1.87	0.56
1:JC:345:ILE:HD13	2:JD:398:MET:HG2	1.87	0.56
1:JK:128:ASP:OD1	1:JK:129:CYS:N	2.38	0.56
1:JK:181:GLU:HB3	1:JK:182:PRO:HD3	1.87	0.56
2:JN:18:ASN:HD21	2:JN:78:VAL:HG22	1.71	0.56
2:KB:392:ASP:OD1	2:KB:393:HIS:N	2.38	0.56
2:KF:11:GLN:HG3	2:KF:74:VAL:HG11	1.87	0.56
1:KK:236:VAL:HG13	1:KK:237:THR:HG23	1.87	0.56
1:KK:256:ASN:HD21	2:KL:101:ASN:HD22	1.53	0.56
2:KL:123:ARG:HH12	35:2O:138:GLU:HB2	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:295:VAL:HG21	2:L:375:VAL:HG13	1.88	0.56
1:LC:242:PHE:HB3	1:LC:356:ILE:HD13	1.88	0.56
2:LH:252:LEU:HA	2:LH:255:PHE:CE1	2.41	0.56
1:LI:323:THR:HA	1:LI:326:VAL:HG12	1.86	0.56
1:LK:121:ARG:NH1	1:LK:158:GLU:OE2	2.38	0.56
2:ME:50:ASN:ND2	26:1Q:33:GLN:OE1	2.34	0.56
1:MF:340:TYR:OH	13:0Z:77:GLY:O	2.14	0.56
1:MH:299:MET:O	32:2C:242:ARG:NH2	2.38	0.56
1:MH:306:ARG:NH1	1:MH:340:TYR:OH	2.24	0.56
2:MM:326:LYS:HE2	2:MM:326:LYS:HA	1.86	0.56
1:MN:417:ASP:OD1	33:2I:130:ARG:NH2	2.33	0.56
1:N:40:SER:O	41:2n:155:ARG:NH2	2.38	0.56
1:NB:339:SER:HA	60:3r:96:ASN:HD22	1.71	0.56
1:ND:298:ASN:ND2	1:ND:298:ASN:O	2.37	0.56
1:NL:226:ASN:OD1	69:NL:500:GDP:N1	2.38	0.56
1:O:276:ARG:HH21	41:2n:175:ILE:HB	1.69	0.56
2:OA:90:GLU:HG2	2:OA:91:GLN:OE1	2.06	0.56
1:OF:236:VAL:HG13	1:OF:237:THR:HG23	1.87	0.56
1:P:19:LYS:NZ	1:P:227:HIS:HB2	2.20	0.56
1:PB:167:PHE:CE1	1:PB:233:MET:HG2	2.41	0.56
1:PH:267:MET:HE3	1:PH:371:ASN:HB3	1.87	0.56
1:PL:294:PHE:CD2	1:PL:333:VAL:HG11	2.41	0.56
1:QC:192:LEU:O	1:QC:196:SER:HB3	2.06	0.56
1:QE:73:MET:HG3	1:QE:92:PHE:HD2	1.69	0.56
1:QI:251:ARG:HG2	1:QI:251:ARG:HH11	1.71	0.56
2:RD:372:GLN:HG2	41:2e:360:LEU:HD12	1.87	0.56
2:RF:382:THR:HG21	2:RF:436:GLY:HA3	1.87	0.56
2:RL:332:ILE:HG23	2:RL:351:PHE:CD2	2.40	0.56
2:SA:51:THR:HG21	2:SA:243:ARG:HG2	1.88	0.56
1:SD:134:GLN:HA	1:SD:165:MET:HB3	1.87	0.56
1:SF:112:LEU:HD21	1:SF:147:MET:HE2	1.86	0.56
1:SH:249:ASP:H	1:SH:252:LYS:HB3	1.71	0.56
2:SI:51:THR:HG21	2:SI:243:ARG:HG2	1.88	0.56
1:SJ:125:GLU:OE2	61:3x:82:TYR:CG	2.55	0.56
1:SJ:125:GLU:OE1	61:3x:82:TYR:CA	2.53	0.56
1:TD:286:VAL:HG11	1:TD:325:GLU:HB3	1.88	0.56
2:TE:297:GLU:HG3	2:TE:299:ALA:H	1.71	0.56
1:TL:235:GLY:HA3	1:TL:366:THR:HG21	1.86	0.56
1:UB:35:THR:O	1:UB:37:GLN:NE2	2.38	0.56
2:UC:173:PRO:HG3	2:UC:183:GLU:HG2	1.87	0.56
1:UF:91:ILE:HD11	1:UF:119:VAL:HG21	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UF:326:VAL:HG21	1:UF:353:ILE:HD11	1.87	0.56
1:UF:335:ASN:OD1	1:UF:336:LYS:N	2.39	0.56
2:UG:90:GLU:OE1	2:VG:280:LYS:NZ	2.29	0.56
1:V:222:PHE:O	1:V:226:ASN:ND2	2.38	0.56
1:VB:2:ARG:HH21	2:VC:72:PRO:HG2	1.70	0.56
1:VD:403:MET:HE3	1:VD:408:PHE:CE1	2.41	0.56
2:VG:406:HIS:HA	2:VG:409:VAL:HG22	1.88	0.56
1:WD:312:THR:HG21	2:WE:404:PHE:HZ	1.70	0.56
2:WI:237:SER:HA	2:WI:320:ARG:HH11	1.71	0.56
1:WL:159:TYR:HB3	1:WL:162:ARG:HG3	1.87	0.56
5:XN:159:VAL:HA	5:XN:162:LEU:HD23	1.88	0.56
7:0D:214:SER:O	7:0D:218:LYS:HG2	2.05	0.56
9:0M:212:LYS:HG3	9:0M:229:GLN:HG2	1.86	0.56
9:0O:138:ASP:HB2	9:0O:145:LEU:HD11	1.88	0.56
15:0f:272:TYR:HB2	15:0f:274:GLU:HG2	1.88	0.56
20:0t:41:MET:HE3	20:0t:45:ILE:HD11	1.88	0.56
22:0z:256:MET:HA	22:0z:256:MET:HE3	1.88	0.56
33:2F:119:LYS:O	33:2F:123:LEU:HB2	2.05	0.56
40:2Z:264:THR:O	40:2Z:268:GLN:HG3	2.06	0.56
43:2t:371:HIS:CE1	43:2t:373:LEU:HD23	2.40	0.56
49:3Q:7:GLN:NE2	49:3Q:8:GLN:O	2.38	0.56
57:3g:110:ARG:HA	57:3g:114:ASP:HB2	1.87	0.56
2:AA:127:ASP:OD1	2:AA:128:ASN:N	2.39	0.56
1:AF:210:ILE:O	1:AF:214:THR:OG1	2.21	0.56
1:AJ:48:ASN:O	1:AJ:62:ARG:NH2	2.38	0.56
1:AJ:207:LEU:HD13	1:AJ:225:LEU:HG	1.87	0.56
2:AK:288:VAL:HB	2:AK:327:ASP:HB3	1.88	0.56
1:BL:117:LEU:HA	1:BL:120:CYS:SG	2.45	0.56
1:BL:371:ASN:ND2	1:BL:373:CYS:SG	2.79	0.56
1:CK:337:ASN:HB3	1:CK:340:TYR:CG	2.41	0.56
1:DC:245:GLN:O	2:DD:11:GLN:NE2	2.39	0.56
2:DF:196:GLU:HG3	2:DF:197:HIS:CD2	2.40	0.56
2:DF:236:SER:OG	2:DF:243:ARG:NH2	2.38	0.56
2:DF:254:GLU:OE1	1:DG:99:ASN:ND2	2.38	0.56
2:DH:195:LEU:HA	2:DH:266:HIS:HE1	1.70	0.56
1:DK:189:VAL:O	1:DK:193:VAL:HG23	2.06	0.56
2:EI:27:GLU:OE1	2:EI:243:ARG:NH1	2.33	0.56
1:F:253:LEU:HD11	1:F:316:LEU:HD11	1.88	0.56
2:FK:21:TRP:CZ2	2:FK:65:CYS:HB3	2.41	0.56
2:GI:1:MET:N	2:GI:3:GLU:OE2	2.39	0.56
2:GI:195:LEU:HD21	2:GI:264:ARG:HH21	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:251:ARG:NH1	2:HA:97:GLU:OE2	2.38	0.56
1:HB:256:ASN:HD21	2:HC:101:ASN:ND2	2.04	0.56
2:HE:174:SER:HB3	2:HE:207:GLU:HG3	1.88	0.56
2:HG:387:VAL:O	2:HG:391:ILE:HG12	2.06	0.56
1:HJ:375:GLN:HE22	1:HJ:379:ARG:NH2	2.04	0.56
1:ID:27:GLU:OE1	1:ID:241:ARG:NH2	2.39	0.56
2:IM:209:ILE:HG21	2:IM:227:VAL:HG13	1.87	0.56
2:J:275:VAL:HG23	2:J:368:LEU:HG	1.87	0.56
1:JA:324:LYS:HZ1	2:JB:222:PRO:HG2	1.69	0.56
1:JK:2:ARG:HB3	1:JK:131:GLN:HG3	1.86	0.56
1:JM:46:ARG:NH2	2:JN:76:ASP:OD2	2.36	0.56
2:KB:352:LYS:HD2	2:KB:353:CYS:N	2.20	0.56
2:KH:259:LEU:HD21	2:KH:268:VAL:HG11	1.88	0.56
2:KN:237:SER:HA	2:KN:320:ARG:HD2	1.88	0.56
2:LB:45:GLU:OE1	27:1S:61:ARG:NH1	2.39	0.56
2:LD:174:SER:HB2	2:LD:207:GLU:HG3	1.86	0.56
2:LD:251:ASP:H	2:LD:254:GLU:HB3	1.71	0.56
1:LE:11:GLN:NE2	1:LE:15:GLN:OE1	2.38	0.56
2:LF:258:ASN:OD1	1:LG:99:ASN:ND2	2.30	0.56
1:LG:276:ARG:HH21	23:1E:218:LEU:HD13	1.70	0.56
2:LJ:27:GLU:OE1	2:LJ:243:ARG:NH1	2.35	0.56
2:LJ:64:ARG:NH1	2:LJ:129:CYS:SG	2.78	0.56
1:LO:163:ILE:HD11	1:LO:251:ARG:HG3	1.88	0.56
1:M:311:LEU:HA	1:M:342:ILE:HD12	1.87	0.56
2:MC:67:PHE:HB2	2:MC:92:LEU:HD12	1.87	0.56
2:MC:317:LEU:HD23	2:MC:377:MET:HB2	1.88	0.56
2:MI:402:ARG:HH22	13:0Z:182:ILE:HD12	1.71	0.56
2:NA:91:GLN:H	2:NA:121:ARG:HH11	1.54	0.56
1:ND:163:ILE:HG21	1:ND:250:LEU:HB3	1.86	0.56
2:NE:276:VAL:HB	2:NE:280:LYS:HB3	1.87	0.56
1:NF:91:ILE:HD12	1:NF:116:VAL:HG22	1.86	0.56
1:NF:282:ARG:NH2	1:NF:292:GLN:OE1	2.36	0.56
1:NJ:219:THR:OG1	18:0p:210:MET:SD	2.64	0.56
2:NK:313:MET:HG2	2:NK:344:VAL:HG11	1.88	0.56
1:NL:304:ASP:OD2	1:NL:306:ARG:NE	2.34	0.56
2:OA:152:LEU:O	2:OA:156:ARG:HG2	2.06	0.56
2:OE:265:ILE:HG23	2:OE:432:TYR:HE1	1.70	0.56
2:OK:269:LEU:O	2:OK:378:ILE:HA	2.05	0.56
2:OM:175:PRO:HG3	2:OM:390:ARG:NE	2.20	0.56
2:PA:212:LEU:HD11	2:PA:275:VAL:HG11	1.88	0.56
1:PB:330:MET:SD	1:PB:351:SER:OG	2.64	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PD:298:ASN:O	1:PD:298:ASN:ND2	2.38	0.56
2:PK:261:PRO:HA	1:PL:394:PHE:CD2	2.41	0.56
2:PK:268:VAL:HG21	2:PK:378:ILE:HG22	1.88	0.56
2:QB:326:LYS:HG2	1:QC:212:PHE:CZ	2.41	0.56
1:QC:153:SER:HA	1:QC:195:ASN:HD22	1.71	0.56
2:QL:195:LEU:HD11	2:QL:428:LEU:HD11	1.87	0.56
1:SF:112:LEU:H	1:SF:112:LEU:HD23	1.71	0.56
2:SI:9:ILE:HD13	2:SI:150:GLY:HA2	1.88	0.56
2:TC:141:VAL:HG11	2:TC:194:LEU:HD11	1.87	0.56
1:TD:375:GLN:HG3	1:TD:379:ARG:HE	1.69	0.56
2:TE:319:TYR:HB3	2:TE:323:VAL:HG21	1.87	0.56
2:TG:51:THR:HG21	2:TG:243:ARG:HG2	1.86	0.56
1:TH:147:MET:HE3	1:TH:147:MET:HA	1.86	0.56
1:TJ:292:GLN:HG2	1:TJ:298:ASN:ND2	2.21	0.56
1:UF:323:THR:HA	1:UF:326:VAL:HG12	1.88	0.56
2:UG:258:ASN:HD21	1:UH:99:ASN:HD22	1.53	0.56
2:UG:332:ILE:O	2:UG:336:LYS:HG3	2.06	0.56
1:UJ:324:LYS:HE2	2:UK:210:TYR:HB3	1.87	0.56
2:VC:338:LYS:HA	62:4B:170:LYS:HZ2	1.66	0.56
2:VG:27:GLU:OE1	2:VG:243:ARG:NH2	2.38	0.56
1:VH:27:GLU:OE1	1:VH:241:ARG:NH1	2.38	0.56
1:VH:309:ARG:H	1:VH:372:THR:HG1	1.53	0.56
1:VJ:163:ILE:HG21	1:VJ:250:LEU:HB3	1.88	0.56
1:VJ:253:LEU:HD21	1:VJ:316:LEU:HD21	1.88	0.56
1:VL:219:THR:OG1	8:0G:187:ARG:NH2	2.38	0.56
1:WF:33:THR:O	1:WF:58:ARG:NH1	2.39	0.56
2:WM:315:CYS:HB3	2:WM:351:PHE:CD1	2.41	0.56
4:XM:185:LEU:HD22	4:XM:192:ILE:HD11	1.88	0.56
5:XP:52:SER:HB3	9:0M:359:LEU:HD12	1.88	0.56
8:0I:297:ARG:O	8:0I:301:GLU:HG2	2.05	0.56
13:0Y:104:PRO:HB2	13:0Y:107:ASN:ND2	2.21	0.56
14:0c:303:GLU:HA	14:0c:306:ARG:HG2	1.88	0.56
16:0k:58:SER:N	16:0k:61:GLU:OE2	2.32	0.56
26:1Q:418:LEU:HD23	26:1Q:451:ALA:HB1	1.88	0.56
33:2G:232:CYS:O	33:2G:237:VAL:N	2.27	0.56
36:2Q:31:LYS:NZ	36:2Q:57:ASP:OD1	2.24	0.56
39:2X:165:ARG:HG2	51:X1:206:THR:HG22	1.87	0.56
41:2c:369:ARG:HA	41:2c:372:MET:SD	2.45	0.56
41:2l:471:LEU:O	41:2l:475:ILE:HG12	2.05	0.56
49:3P:319:LEU:HD21	49:3P:481:PRO:HB2	1.87	0.56
64:5D:83:LEU:HB3	65:5I:76:VAL:HG21	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:5D:106:GLU:HA	64:5D:109:ARG:HG2	1.88	0.56
1:AJ:40:SER:HB2	54:3a:143:HIS:HB3	1.87	0.56
2:AM:97:GLU:HG2	2:AM:105:ARG:HH22	1.70	0.56
1:AN:99:ASN:HD21	1:AN:178:THR:HG23	1.71	0.56
1:AN:165:MET:HG2	1:AN:198:GLU:HB2	1.87	0.56
1:BD:323:THR:HA	1:BD:326:VAL:HG12	1.87	0.56
2:BI:186:ASN:OD1	2:BI:408:TYR:OH	2.24	0.56
2:BK:199:ASP:OD2	2:BK:256:GLN:NE2	2.38	0.56
2:BK:219:ILE:HG23	2:BK:222:PRO:HG3	1.87	0.56
1:BN:189:VAL:HG11	1:BN:415:MET:HE2	1.88	0.56
1:CA:311:LEU:HA	1:CA:342:ILE:HD12	1.88	0.56
1:CK:308:GLY:HA3	1:CK:373:CYS:HB2	1.88	0.56
2:CL:273:ALA:HB3	2:CL:295:VAL:HG23	1.88	0.56
2:CL:324:VAL:HG13	2:CL:327:ASP:H	1.71	0.56
2:DJ:388:PHE:HA	2:DJ:391:ILE:HG22	1.87	0.56
2:DL:204:LEU:HD13	2:DL:231:ILE:HD12	1.88	0.56
2:DL:212:LEU:HD21	2:DL:275:VAL:HG11	1.88	0.56
1:DM:172:SER:OG	1:DM:205:GLU:OE1	2.17	0.56
1:E:185:THR:O	1:E:189:VAL:HG23	2.06	0.56
1:ED:20:PHE:HA	1:ED:230:ALA:HB1	1.88	0.56
1:ED:318:ARG:HB3	1:ED:357:PRO:HA	1.88	0.56
1:EH:165:MET:HE3	1:EH:200:MET:HE3	1.88	0.56
2:FE:75:VAL:HG21	2:FE:94:SER:HB2	1.88	0.56
2:FG:3:GLU:HA	2:FG:51:THR:HA	1.87	0.56
2:FI:53:PHE:HB3	2:FI:61:HIS:HB3	1.87	0.56
2:FI:172:TYR:CD2	2:FI:203:MET:HE1	2.41	0.56
2:FI:177:VAL:HG22	2:FI:207:GLU:OE2	2.06	0.56
2:GA:7:ILE:HD11	2:GA:137:VAL:HG12	1.88	0.56
2:GE:195:LEU:HD21	2:GE:264:ARG:HE	1.71	0.56
1:GH:80:PRO:HD2	1:GH:81:TYR:H	1.71	0.56
1:GJ:24:ILE:HG21	1:GJ:50:TYR:HD2	1.71	0.56
1:GJ:318:ARG:HB3	1:GJ:357:PRO:HA	1.87	0.56
1:GL:336:LYS:NZ	59:4P:90:PRO:O	2.26	0.56
2:HG:286:LEU:O	2:HG:373:ARG:NH1	2.39	0.56
1:HJ:73:MET:HG3	1:HJ:92:PHE:HB3	1.88	0.56
2:IG:229:ARG:HD3	2:IG:363:VAL:HG21	1.88	0.56
2:IK:259:LEU:O	2:IK:380:ASN:ND2	2.34	0.56
2:JB:177:VAL:N	2:JB:207:GLU:OE2	2.37	0.56
1:JC:61:PRO:HD3	1:JC:84:LEU:HG	1.88	0.56
2:JF:155:GLU:HG3	2:JF:197:HIS:CE1	2.41	0.56
1:JI:304:ASP:OD1	1:JI:306:ARG:NE	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JK:252:LYS:HD3	2:JL:100:ALA:HA	1.87	0.56
1:JK:304:ASP:OD2	1:JK:306:ARG:NH2	2.37	0.56
2:JN:241:SER:O	2:JN:249:ASN:ND2	2.34	0.56
2:KB:174:SER:HB2	2:KB:207:GLU:OE1	2.06	0.56
2:KB:224:TYR:HA	2:KB:227:VAL:HG22	1.86	0.56
2:KD:245:ASP:O	2:KD:356:ASN:ND2	2.39	0.56
1:KG:77:ARG:NH1	1:KG:82:GLY:O	2.39	0.56
1:KG:247:ASN:OD1	2:KH:11:GLN:NE2	2.39	0.56
1:KK:248:SER:HB2	1:KK:252:LYS:HG2	1.87	0.56
2:KN:224:TYR:HA	2:KN:227:VAL:HG22	1.88	0.56
1:LE:83:GLN:O	1:MD:281:TYR:OH	2.22	0.56
2:MC:322:ASP:OD2	2:MC:373:ARG:NH2	2.38	0.56
2:ME:64:ARG:NH1	2:ME:128:ASN:OD1	2.38	0.56
2:MK:217:LEU:HD11	2:MK:368:LEU:HD22	1.88	0.56
2:MK:328:VAL:O	2:MK:332:ILE:HG12	2.06	0.56
2:MM:325:PRO:HA	2:MM:328:VAL:HB	1.88	0.56
1:MN:163:ILE:HG21	1:MN:250:LEU:HB3	1.88	0.56
1:N:377:MET:HE1	1:N:380:ARG:NH2	2.20	0.56
2:NA:237:SER:HA	2:NA:320:ARG:HD2	1.88	0.56
2:NA:241:SER:OG	2:NA:250:VAL:O	2.19	0.56
1:NH:104:GLY:O	1:NH:147:MET:HB3	2.05	0.56
1:OF:371:ASN:OD1	1:OF:372:THR:N	2.39	0.56
2:PA:270:THR:HG23	2:PA:302:LEU:HB2	1.88	0.56
2:PC:123:ARG:NH1	59:4a:167:ASP:OD2	2.38	0.56
2:PK:90:GLU:O	2:PK:121:ARG:NH1	2.38	0.56
2:Q:293:ASN:O	2:Q:297:GLU:HG2	2.06	0.56
1:QA:173:PRO:HA	1:QA:176:SER:HB2	1.88	0.56
1:QA:267:MET:HE1	1:QA:299:MET:HG2	1.87	0.56
1:QC:144:GLY:N	69:QC:500:GDP:O2B	2.30	0.56
2:QF:178:SER:OG	2:QF:183:GLU:OE1	2.23	0.56
2:R:167:LEU:HD21	2:R:255:PHE:CE1	2.41	0.56
1:RG:68:LEU:HD12	1:RG:143:THR:HB	1.87	0.56
2:RJ:422:ARG:O	2:RJ:422:ARG:NH1	2.38	0.56
2:SC:138:PHE:HE2	2:SC:235:VAL:HG21	1.71	0.56
2:SC:174:SER:OG	2:SC:177:VAL:O	2.24	0.56
2:SK:209:ILE:HG21	2:SK:227:VAL:HG13	1.88	0.56
1:T:357:PRO:HD2	53:3W:154:ARG:HH21	1.70	0.56
1:TL:306:ARG:HD2	61:3x:127:GLY:HA2	1.88	0.56
1:UB:211:CYS:HB3	1:UB:217:LEU:HB2	1.88	0.56
1:UF:73:MET:HG3	1:UF:92:PHE:HB3	1.86	0.56
2:UG:155:GLU:HG3	2:UG:197:HIS:CE1	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UJ:8:GLN:HE21	1:UJ:65:LEU:HG	1.70	0.56
1:UJ:317:PHE:HB3	1:UJ:321:MET:HE1	1.88	0.56
2:UK:136:MET:HG2	2:UK:169:TYR:CE2	2.41	0.56
2:UK:212:LEU:HD21	2:UK:275:VAL:HG11	1.88	0.56
2:VC:253:THR:HA	2:VC:256:GLN:HG3	1.87	0.56
2:VC:337:THR:C	62:4B:170:LYS:NZ	2.63	0.56
2:VE:90:GLU:HB2	2:VE:121:ARG:NH1	2.19	0.56
2:VG:67:PHE:HB2	2:VG:92:LEU:HD12	1.87	0.56
2:VG:71:GLU:HB3	2:VG:98:ASP:HB3	1.88	0.56
1:VL:252:LYS:NZ	71:VM:501:GTP:O2G	2.39	0.56
2:WG:326:LYS:HZ3	1:WH:220:PRO:HD2	1.70	0.56
1:WL:35:THR:HG22	21:0w:32:ILE:HD12	1.87	0.56
3:XC:34:VAL:HG22	3:XC:49:ILE:HG23	1.87	0.56
6:0:104:PHE:CE2	6:0:153:GLY:HA3	2.41	0.56
9:0L:22:LEU:HD21	9:0L:66:CYS:HA	1.86	0.56
9:0M:22:LEU:HD22	9:0M:25:SER:HA	1.87	0.56
9:0O:22:LEU:HD21	9:0O:66:CYS:HA	1.88	0.56
11:0U:126:LEU:HD13	11:0U:145:LEU:HD12	1.88	0.56
12:0W:254:PRO:HG2	18:0p:276:ARG:NH2	2.21	0.56
16:0l:265:LEU:HD13	16:0l:322:LEU:HG	1.87	0.56
27:1S:841:TYR:HA	27:1S:844:MET:HE2	1.87	0.56
28:1e:21:ARG:HG3	41:2l:351:ARG:NH2	2.21	0.56
29:1m:182:ARG:HH21	29:1m:185:PRO:HG3	1.71	0.56
31:1t:175:LEU:HD11	22:1y:203:LEU:HG	1.88	0.56
32:2C:56:ASP:HA	32:2C:59:VAL:HG22	1.87	0.56
33:2H:255:ASP:OD1	33:2H:256:HIS:N	2.36	0.56
36:2Q:141:TRP:HB3	36:2Q:250:LEU:HD11	1.88	0.56
45:2y:294:ARG:O	45:2y:318:ASN:ND2	2.34	0.56
64:5C:149:ILE:HG23	65:5H:149:ASN:HD21	1.71	0.56
67:5O:28:LEU:HD11	67:5O:105:VAL:HG13	1.86	0.56
1:A:134:GLN:NE2	1:A:233:MET:SD	2.79	0.56
1:AB:68:LEU:HB3	1:AB:96:GLY:HA2	1.87	0.56
1:AF:234:SER:O	1:AF:241:ARG:NH2	2.39	0.56
1:AH:5:VAL:HG23	1:AH:62:ARG:HG2	1.88	0.56
1:AH:324:LYS:NZ	2:AI:210:TYR:HB3	2.21	0.56
1:AJ:131:GLN:NE2	1:AJ:250:LEU:HB2	2.20	0.56
2:AK:353:CYS:HB2	1:AL:177:ASP:HB2	1.88	0.56
1:AN:153:SER:O	1:AN:157:GLU:HG3	2.06	0.56
2:BE:192:HIS:HE1	2:BE:421:ALA:HA	1.71	0.56
2:BI:175:PRO:HB3	2:BI:390:ARG:HG2	1.86	0.56
1:BJ:403:MET:HE3	1:BJ:408:PHE:CZ	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:10:GLY:HA2	1:CA:143:THR:HG23	1.86	0.56
2:CF:169:TYR:HA	2:CF:202:THR:HB	1.87	0.56
2:CF:234:VAL:HG21	2:CF:302:LEU:HD11	1.87	0.56
2:CH:213:THR:HA	2:CH:217:LEU:HD23	1.88	0.56
1:CI:159:TYR:HB3	1:CI:162:ARG:HG3	1.86	0.56
2:CJ:388:PHE:HA	2:CJ:391:ILE:HG22	1.88	0.56
2:CL:192:HIS:HE1	2:CL:421:ALA:HA	1.69	0.56
2:CL:260:VAL:HG13	1:CM:397:TRP:CH2	2.41	0.56
1:DM:323:THR:HA	1:DM:326:VAL:HG22	1.88	0.56
1:E:140:GLY:O	1:E:184:ASN:ND2	2.29	0.56
1:E:267:MET:HG2	1:E:301:GLN:HG2	1.86	0.56
1:EB:172:SER:OG	1:EB:205:GLU:OE1	2.22	0.56
1:ED:121:ARG:NE	1:ED:158:GLU:OE2	2.37	0.56
1:ED:167:PHE:CD1	1:ED:268:MET:HE1	2.41	0.56
1:ED:320:ARG:NH1	25:1O:580:ASN:OD1	2.39	0.56
2:EI:104:ALA:HB2	2:EI:413:MET:HE3	1.88	0.56
2:EI:346:TRP:HB3	1:EJ:391:ARG:HD3	1.88	0.56
1:EL:286:VAL:HG21	1:EL:326:VAL:HG12	1.87	0.56
1:FB:252:LYS:HE3	1:FB:350:LYS:HZ2	1.71	0.56
1:FD:2:ARG:HH12	2:FE:71:GLU:HB2	1.71	0.56
2:FE:318:MET:O	2:FE:375:VAL:HA	2.06	0.56
1:GB:385:PHE:HE2	1:GB:412:GLU:HB3	1.71	0.56
2:GE:180:ALA:HB3	2:GE:183:GLU:HB2	1.88	0.56
1:GH:289:LEU:HD22	1:GH:365:VAL:HG12	1.88	0.56
1:HB:324:LYS:HD2	2:HC:222:PRO:HD2	1.88	0.56
2:HG:191:THR:HG21	2:HG:425:LEU:HD21	1.87	0.56
2:HI:239:THR:HG23	2:HI:243:ARG:HH12	1.71	0.56
2:HM:261:PRO:HG2	2:HM:313:MET:HE3	1.87	0.56
2:IE:335:ILE:HG23	2:IE:341:ILE:HD11	1.88	0.56
2:IK:255:PHE:HA	2:IK:258:ASN:HD22	1.71	0.56
2:IM:431:ASP:OD1	2:IM:432:TYR:N	2.39	0.56
2:J:166:LYS:HB2	2:J:199:ASP:H	1.70	0.56
1:JE:163:ILE:HD13	1:JE:250:LEU:HB3	1.88	0.56
1:JG:379:ARG:NH2	1:JG:423:GLN:HE21	2.04	0.56
1:JG:416:ASN:HB3	60:3s:48:ILE:HG12	1.87	0.56
1:KC:350:LYS:HZ3	1:KC:352:SER:HG	1.54	0.56
2:KH:212:LEU:HD21	2:KH:275:VAL:HG11	1.88	0.56
1:KK:320:ARG:NH2	52:3U:385:CYS:O	2.30	0.56
1:KM:163:ILE:HD11	1:KM:251:ARG:HG3	1.88	0.56
1:KM:332:ASN:HB3	1:KM:336:LYS:NZ	2.21	0.56
2:LF:147:SER:HB2	2:LF:190:SER:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MB:324:LYS:NZ	2:MC:210:TYR:HB3	2.20	0.56
1:MD:46:ARG:NH2	2:ME:76:ASP:OD2	2.39	0.56
1:MD:67:ASP:OD2	1:MD:72:THR:OG1	2.21	0.56
1:ND:159:TYR:HB3	1:ND:162:ARG:HG2	1.86	0.56
1:NJ:4:ILE:HB	1:NJ:50:TYR:HE1	1.71	0.56
1:O:355:ASP:OD1	28:1g:145:THR:HG23	2.05	0.56
1:OF:316:LEU:HD13	1:OF:352:SER:HB2	1.88	0.56
2:OG:251:ASP:H	2:OG:254:GLU:HB2	1.70	0.56
2:OG:372:GLN:NE2	41:2o:306:MET:SD	2.79	0.56
2:OK:219:ILE:HB	2:OK:222:PRO:HG3	1.88	0.56
2:OK:320:ARG:HD3	2:OK:360:PRO:HG3	1.88	0.56
1:PL:178:THR:HB	1:PL:181:GLU:HB2	1.88	0.56
1:QA:14:ASN:HD22	1:QA:72:THR:HG23	1.70	0.56
1:QA:163:ILE:HD11	1:QA:251:ARG:HG3	1.88	0.56
1:QA:252:LYS:HZ3	2:QB:100:ALA:HA	1.71	0.56
2:QL:33:ASP:HA	2:QL:85:GLN:HB2	1.88	0.56
2:RH:155:GLU:HA	2:RH:197:HIS:CD2	2.41	0.56
2:RJ:97:GLU:OE1	59:3p:207:HIS:NE2	2.36	0.56
1:SB:309:ARG:NH2	1:SB:343:GLU:OE1	2.38	0.56
1:SD:152:ILE:HG22	1:SD:195:ASN:HB3	1.87	0.56
2:SE:72:PRO:O	2:SE:76:ASP:HB2	2.06	0.56
2:SI:78:VAL:HA	28:1V:43:TYR:HE1	1.71	0.56
1:SJ:292:GLN:HG2	1:SJ:298:ASN:HD22	1.71	0.56
1:TD:117:LEU:O	1:TD:121:ARG:HG2	2.06	0.56
2:TE:105:ARG:HB2	2:TE:411:GLU:HG3	1.87	0.56
2:TG:175:PRO:HG3	2:TG:390:ARG:NH1	2.20	0.56
1:TH:345:ILE:HG23	2:TI:398:MET:HE2	1.86	0.56
2:TI:195:LEU:HD21	2:TI:264:ARG:HE	1.71	0.56
2:TK:295:VAL:HG21	2:TK:375:VAL:HG13	1.88	0.56
1:UD:236:VAL:HG13	1:UD:237:THR:HG23	1.87	0.56
2:UE:150:GLY:O	2:UE:154:LEU:HD23	2.06	0.56
1:UL:19:LYS:HZ1	1:UL:227:HIS:HB2	1.69	0.56
1:VH:313:ALA:HB1	1:VH:367:PHE:HE1	1.71	0.56
1:VL:328:GLU:OE2	1:VL:332:ASN:ND2	2.33	0.56
3:X:2:PHE:O	3:X:7:GLN:NE2	2.39	0.56
3:X:39:ASP:HB3	3:X:42:ILE:HG22	1.86	0.56
3:XB:101:ARG:HG2	3:XB:144:TYR:CE1	2.41	0.56
8:0F:54:GLY:HA2	13:0Y:225:ARG:HH12	1.69	0.56
9:0L:247:ILE:HA	9:0L:262:SER:HA	1.88	0.56
9:0N:531:ILE:HD12	9:0N:577:TRP:CZ3	2.41	0.56
9:0O:169:ILE:HG13	9:0O:178:VAL:HG22	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:0U:203:ILE:HB	11:0U:267:TRP:HB2	1.88	0.56
12:0W:211:LEU:HB2	12:0W:274:TRP:HB2	1.87	0.56
16:0k:412:ILE:HG23	16:0k:446:GLN:HG2	1.87	0.56
23:1A:245:GLU:OE1	23:1A:249:ARG:NH1	2.39	0.56
28:1g:241:VAL:HG21	28:1h:19:VAL:HG13	1.87	0.56
44:2w:301:ARG:HB2	44:2w:387:ALA:HB2	1.87	0.56
49:3Q:152:ARG:HH11	49:3Q:192:ASN:HB2	1.71	0.56
64:5B:111:ILE:HD11	65:5G:104:LEU:HD23	1.88	0.56
1:A:317:PHE:HB3	1:A:321:MET:HE1	1.87	0.55
2:AA:257:THR:HG21	1:AB:98:GLY:O	2.06	0.55
1:AF:102:ALA:HB1	1:AF:401:GLU:HB2	1.87	0.55
1:AL:221:THR:HG22	1:AL:222:PHE:N	2.21	0.55
1:AL:234:SER:O	1:AL:241:ARG:NH2	2.38	0.55
1:AN:173:PRO:HA	1:AN:176:SER:HB2	1.88	0.55
1:B:267:MET:HE3	1:B:371:ASN:HB3	1.88	0.55
1:B:327:ASP:OD1	1:B:328:GLU:N	2.39	0.55
2:BG:270:THR:HG23	2:BG:302:LEU:HB2	1.87	0.55
2:BK:150:GLY:O	2:BK:154:LEU:HD23	2.06	0.55
2:C:240:ALA:HA	2:C:243:ARG:HE	1.71	0.55
1:CC:252:LYS:CD	2:CD:100:ALA:HA	2.36	0.55
1:CE:282:ARG:NH2	1:CE:292:GLN:OE1	2.39	0.55
1:CG:63:ALA:O	1:CG:89:ASN:ND2	2.39	0.55
2:CH:9:ILE:HD13	2:CH:150:GLY:HA2	1.87	0.55
1:CI:40:SER:HA	16:0l:656:VAL:HG13	1.88	0.55
1:CM:309:ARG:H	1:CM:372:THR:HB	1.71	0.55
1:DE:389:PHE:HZ	1:DE:405:GLU:HG3	1.71	0.55
2:DL:257:THR:HG1	1:DM:397:TRP:CD1	2.25	0.55
2:EA:265:ILE:HG22	2:EA:380:ASN:HD21	1.70	0.55
2:EG:215:ARG:NH2	2:EG:300:GLY:HA2	2.21	0.55
2:EI:236:SER:OG	2:EI:243:ARG:NH2	2.39	0.55
1:EJ:1:MET:HE2	2:EK:72:PRO:HG3	1.87	0.55
2:FI:395:PHE:HZ	2:FI:418:PHE:HB3	1.70	0.55
2:FK:120:ASP:OD2	2:FK:124:LYS:NZ	2.39	0.55
1:GB:208:TYR:CE1	1:GB:225:LEU:HD11	2.40	0.55
1:GH:237:THR:HG22	1:GH:250:LEU:HD21	1.88	0.55
2:GK:5:ILE:HD13	2:GK:64:ARG:HB3	1.88	0.55
2:HI:186:ASN:OD1	2:HI:408:TYR:OH	2.23	0.55
1:HJ:257:LEU:HB3	1:HJ:266:PHE:HE2	1.70	0.55
2:HK:180:ALA:HB3	2:HK:183:GLU:HB2	1.88	0.55
2:HM:171:VAL:HA	2:HM:204:LEU:HB2	1.87	0.55
2:IA:67:PHE:HB2	2:IA:92:LEU:HD13	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IG:326:LYS:HD2	1:IH:212:PHE:CE1	2.41	0.55
1:IH:189:VAL:O	1:IH:193:VAL:HG23	2.06	0.55
1:IJ:347:ASN:ND2	2:IK:178:SER:O	2.38	0.55
1:IL:248:SER:HA	1:IL:252:LYS:HE3	1.88	0.55
2:JF:270:THR:HG23	2:JF:302:LEU:HB2	1.88	0.55
2:JJ:328:VAL:O	2:JJ:332:ILE:HG12	2.06	0.55
2:JN:67:PHE:HB2	2:JN:92:LEU:HD12	1.88	0.55
2:KH:173:PRO:HG3	2:KH:183:GLU:OE2	2.06	0.55
1:KK:306:ARG:HH21	1:KK:340:TYR:HD1	1.52	0.55
2:KL:326:LYS:HG3	2:KL:327:ASP:N	2.21	0.55
1:KM:344:TRP:HB3	1:KM:430:VAL:HG12	1.87	0.55
1:LG:251:ARG:HH12	2:LH:105:ARG:NH2	2.04	0.55
1:LM:191:GLN:O	1:LM:195:ASN:HB2	2.07	0.55
2:LN:237:SER:HA	2:LN:320:ARG:HD2	1.88	0.55
1:LO:211:CYS:HA	1:LO:215:LEU:HD12	1.88	0.55
1:MB:277:GLY:HA2	27:1S:62:VAL:HG13	1.88	0.55
2:MG:175:PRO:HB3	2:MG:390:ARG:HD3	1.87	0.55
1:MH:326:VAL:HG11	1:MH:353:ILE:HD11	1.88	0.55
1:NB:238:CYS:HB2	1:NB:318:ARG:HH11	1.69	0.55
2:NC:1:MET:HG3	2:NC:2:ARG:HG3	1.88	0.55
1:ND:213:ARG:NH1	1:ND:297:LYS:HE2	2.21	0.55
1:NF:16:ILE:HD11	1:NF:229:VAL:HG11	1.88	0.55
1:NF:304:ASP:OD1	1:NF:306:ARG:NH2	2.39	0.55
1:NH:66:MET:SD	1:NH:151:LEU:HD22	2.45	0.55
1:NH:263:LEU:HD13	1:NH:311:LEU:HD21	1.89	0.55
2:NI:174:SER:OG	2:NI:177:VAL:O	2.21	0.55
1:NL:66:MET:HE3	1:NL:116:VAL:HB	1.88	0.55
2:OA:71:GLU:HG3	2:OA:73:THR:H	1.70	0.55
1:OB:318:ARG:HB3	1:OB:357:PRO:HA	1.87	0.55
1:OH:167:PHE:CZ	1:OH:233:MET:HG2	2.41	0.55
1:P:323:THR:HA	1:P:326:VAL:HG22	1.88	0.55
1:PD:43:GLN:HG3	28:1d:142:TYR:HE2	1.72	0.55
1:PL:256:ASN:ND2	2:PM:101:ASN:HD21	2.01	0.55
2:QB:434:GLU:O	1:QC:391:ARG:NH2	2.39	0.55
1:QC:8:GLN:HE21	1:QC:65:LEU:HD13	1.71	0.55
2:QD:119:LEU:HD11	2:QD:156:ARG:HB3	1.88	0.55
1:QE:22:GLU:HG3	1:QE:81:TYR:CE1	2.41	0.55
2:QF:268:VAL:HG11	2:QF:378:ILE:HG22	1.89	0.55
2:QJ:170:THR:HG21	2:QJ:194:LEU:HD21	1.87	0.55
2:QL:319:TYR:HB3	2:QL:323:VAL:HG21	1.89	0.55
2:R:265:ILE:HG22	2:R:380:ASN:ND2	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RE:67:ASP:OD1	1:RE:68:LEU:N	2.38	0.55
2:RF:5:ILE:HD12	2:RF:125:LEU:HD23	1.87	0.55
2:RF:175:PRO:O	2:RF:394:LYS:NZ	2.29	0.55
2:RF:252:LEU:HA	2:RF:255:PHE:CE1	2.40	0.55
1:RK:252:LYS:HD3	2:RL:100:ALA:HA	1.88	0.55
2:RL:431:ASP:O	2:RL:435:VAL:HG23	2.06	0.55
2:SA:311:LYS:H	2:SA:382:THR:HG1	1.54	0.55
1:SJ:336:LYS:HZ1	59:3p:242:VAL:HG22	1.70	0.55
1:T:256:ASN:O	1:T:312:THR:HG21	2.06	0.55
1:TB:325:GLU:HA	1:TB:328:GLU:HG3	1.88	0.55
1:TH:248:SER:HA	1:TH:252:LYS:HE2	1.88	0.55
2:UC:275:VAL:HG23	2:UC:368:LEU:HD11	1.87	0.55
2:UE:195:LEU:HD11	2:UE:428:LEU:HD21	1.88	0.55
1:UH:252:LYS:HZ2	2:UI:101:ASN:N	2.04	0.55
1:VJ:165:MET:HE3	1:VJ:198:GLU:HG3	1.87	0.55
1:VL:113:ILE:HA	1:VL:116:VAL:HG12	1.88	0.55
1:W:65:LEU:HD21	1:W:76:VAL:HG11	1.89	0.55
2:WC:55:GLU:OE1	5:XN:12:ARG:NH2	2.38	0.55
1:WD:27:GLU:OE1	1:WD:241:ARG:NH2	2.39	0.55
2:WK:88:ASN:OD1	2:WK:89:PRO:HD2	2.06	0.55
2:WM:271:SER:HB3	2:WM:301:MET:HA	1.87	0.55
3:XB:90:GLU:OE1	3:XB:104:ARG:NH2	2.40	0.55
4:XO:86:LYS:HZ1	33:2G:54:THR:C	2.14	0.55
9:0M:490:CYS:HB2	9:0M:504:MET:HG2	1.88	0.55
9:0N:84:PRO:HA	9:0N:109:VAL:HG22	1.87	0.55
9:0N:112:GLN:N	9:0N:126:VAL:O	2.39	0.55
9:0N:535:ASP:HB3	21:0w:89:LYS:HZ3	1.70	0.55
13:0Z:241:LEU:HD22	13:0Z:246:GLN:HG3	1.86	0.55
16:0l:315:ARG:HH11	16:0l:316:PRO:HD2	1.71	0.55
16:0l:662:MET:HE3	16:0l:666:ALA:HB2	1.87	0.55
17:0n:9:GLU:OE2	17:0n:13:ARG:HD2	2.06	0.55
17:0n:288:GLU:O	17:0n:292:ILE:HD12	2.06	0.55
23:1D:53:LYS:NZ	23:1E:396:CYS:SG	2.63	0.55
27:1T:845:THR:O	27:1T:848:THR:OG1	2.14	0.55
29:1l:204:ASP:OD1	29:1l:205:ALA:N	2.39	0.55
31:1q:37:LEU:HA	31:1q:41:TYR:HB2	1.88	0.55
35:2O:21:ARG:NH1	51:X1:185:VAL:O	2.39	0.55
44:2v:268:PHE:O	44:2v:273:HIS:NE2	2.35	0.55
44:2v:339:GLN:N	44:2v:339:GLN:OE1	2.39	0.55
46:3B:410:ILE:O	46:3B:414:VAL:HG23	2.06	0.55
1:A:11:GLN:HA	1:A:72:THR:HG21	1.86	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:128:ASP:OD1	1:A:129:CYS:N	2.39	0.55
2:AI:134:GLY:HA2	2:AI:164:LYS:HG3	1.89	0.55
2:AI:430:LYS:HA	2:AI:433:GLU:HB3	1.88	0.55
2:AK:71:GLU:HB3	2:AK:98:ASP:HB2	1.88	0.55
1:B:360:GLY:H	16:0k:781:ARG:HH12	1.53	0.55
2:BC:150:GLY:O	2:BC:154:LEU:HD23	2.06	0.55
2:BG:335:ILE:HG23	2:BG:341:ILE:HD11	1.88	0.55
2:BI:204:LEU:HD13	2:BI:231:ILE:HD13	1.89	0.55
2:DF:187:CYS:O	2:DF:191:THR:HG23	2.06	0.55
2:DH:251:ASP:OD1	2:DH:254:GLU:HG2	2.06	0.55
2:EA:203:MET:HE3	2:EA:384:ILE:HD12	1.88	0.55
1:ED:236:VAL:HG13	1:ED:237:THR:HG23	1.88	0.55
1:FD:200:MET:HB3	1:FD:268:MET:CE	2.35	0.55
1:FF:67:ASP:OD1	1:FF:69:GLU:N	2.38	0.55
1:FJ:245:GLN:O	2:FK:11:GLN:NE2	2.39	0.55
1:G:56:GLY:HA3	17:0m:115:MET:HE3	1.88	0.55
1:GB:236:VAL:HG22	1:GB:368:ILE:HD11	1.88	0.55
1:GD:345:ILE:O	1:GD:348:ASN:ND2	2.39	0.55
2:GK:68:LEU:HD23	2:GK:153:LEU:HD11	1.89	0.55
2:GK:301:MET:HE1	2:GK:307:PRO:HD3	1.88	0.55
1:GL:198:GLU:HB2	1:GL:266:PHE:CE2	2.41	0.55
1:H:164:MET:HB2	1:H:197:ASP:H	1.70	0.55
2:HC:316:CYS:HB3	2:HC:378:ILE:HG13	1.87	0.55
2:HE:71:GLU:HB3	2:HE:98:ASP:HB3	1.88	0.55
2:HG:416:GLY:O	2:HG:419:SER:OG	2.21	0.55
1:HH:226:ASN:OD1	69:HH:500:GDP:N1	2.30	0.55
2:IC:270:THR:HG22	2:IC:378:ILE:HD13	1.88	0.55
2:IC:406:HIS:HA	2:IC:409:VAL:HG12	1.89	0.55
1:ID:379:ARG:O	1:ID:383:GLU:HG3	2.06	0.55
1:IH:350:LYS:NZ	2:II:180:ALA:HA	2.21	0.55
2:JF:396:ASP:OD2	2:JF:422:ARG:NH2	2.37	0.55
1:JK:237:THR:HG22	1:JK:250:LEU:HD11	1.88	0.55
2:JN:388:PHE:HA	2:JN:391:ILE:HG22	1.88	0.55
2:K:237:SER:HA	2:K:320:ARG:HD2	1.87	0.55
2:KJ:101:ASN:HD21	2:KJ:180:ALA:HB1	1.70	0.55
2:KL:138:PHE:HE2	2:KL:235:VAL:HG21	1.71	0.55
2:KN:265:ILE:HG21	2:KN:313:MET:HE1	1.88	0.55
2:LD:318:MET:O	2:LD:375:VAL:HA	2.06	0.55
1:LG:19:LYS:NZ	1:LG:227:HIS:HB2	2.21	0.55
2:LH:21:TRP:CZ2	2:LH:65:CYS:HB3	2.41	0.55
2:LL:285:GLN:HE21	23:1E:60:MET:HG3	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LN:9:ILE:HD13	2:LN:150:GLY:HA2	1.88	0.55
2:LN:311:LYS:N	2:LN:382:THR:HG1	2.03	0.55
1:MB:211:CYS:HA	1:MB:215:LEU:HB2	1.88	0.55
1:MD:170:ILE:N	1:MD:202:ILE:O	2.35	0.55
1:MF:125:GLU:OE2	4:XO:100:LYS:NZ	2.37	0.55
1:MF:227:HIS:CE1	26:1Q:14:LYS:HB3	2.41	0.55
1:ML:256:ASN:HD21	2:MM:101:ASN:HD22	1.53	0.55
1:N:20:PHE:HD1	1:N:233:MET:HB3	1.69	0.55
1:NH:269:GLY:HA3	1:NH:367:PHE:HB3	1.86	0.55
2:NI:257:THR:HA	1:NJ:397:TRP:CZ3	2.40	0.55
2:NK:186:ASN:OD1	2:NK:408:TYR:OH	2.24	0.55
1:O:216:LYS:HB2	1:O:275:SER:HB2	1.89	0.55
2:OC:394:LYS:O	2:OC:398:MET:HG3	2.07	0.55
2:OE:326:LYS:HA	2:OE:329:ASN:HD22	1.70	0.55
1:OH:170:ILE:HG12	1:OH:377:MET:SD	2.46	0.55
2:OK:195:LEU:HD21	2:OK:264:ARG:HH21	1.71	0.55
1:OL:107:THR:HG22	1:OL:401:GLU:HG3	1.88	0.55
1:OL:267:MET:N	1:OL:369:GLY:O	2.40	0.55
1:PB:48:ASN:O	1:PB:62:ARG:NH2	2.39	0.55
1:PD:113:ILE:HG13	1:PD:117:LEU:HD23	1.89	0.55
1:PH:10:GLY:O	1:PH:14:ASN:ND2	2.39	0.55
2:PK:261:PRO:HA	1:PL:394:PHE:HD2	1.71	0.55
2:PK:326:LYS:NZ	1:PL:220:PRO:HB2	2.16	0.55
2:PM:75:VAL:HG21	2:PM:94:SER:HB2	1.87	0.55
2:QF:430:LYS:O	58:3m:53:ARG:NH2	2.38	0.55
2:QH:195:LEU:HD21	2:QH:428:LEU:HD13	1.88	0.55
1:RG:173:PRO:HA	1:RG:176:SER:HB3	1.87	0.55
2:RJ:174:SER:HB2	2:RJ:207:GLU:OE1	2.05	0.55
2:RJ:251:ASP:H	2:RJ:254:GLU:HG3	1.71	0.55
2:SC:8:HIS:CD2	2:SC:17:GLY:HA3	2.41	0.55
2:SI:11:GLN:HG2	2:SI:74:VAL:HG11	1.88	0.55
2:SI:251:ASP:H	2:SI:254:GLU:HB2	1.70	0.55
1:TD:392:LYS:HG3	1:TD:395:LEU:HD13	1.87	0.55
1:U:165:MET:HE2	1:U:167:PHE:CE1	2.41	0.55
2:UC:251:ASP:H	2:UC:254:GLU:HG3	1.70	0.55
1:VJ:60:VAL:HG11	1:VJ:86:ARG:HG3	1.88	0.55
2:VM:5:ILE:HD12	2:VM:125:LEU:HD23	1.88	0.55
2:WE:127:ASP:OD2	4:XO:127:TYR:OH	2.10	0.55
1:WF:10:GLY:O	1:WF:14:ASN:ND2	2.39	0.55
1:WJ:323:THR:HA	1:WJ:326:VAL:HG12	1.87	0.55
3:XE:34:VAL:HG23	3:XE:49:ILE:HG12	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:0G:403:ARG:NH1	8:0G:406:ARG:HH21	2.05	0.55
10:0R:106:ARG:NH2	10:0R:109:GLN:HE22	2.04	0.55
13:0Z:178:TYR:O	13:0Z:182:ILE:HG12	2.06	0.55
14:0d:51:LYS:HG3	14:0d:53:MET:HB2	1.88	0.55
20:0t:190:CYS:SG	20:0t:216:ARG:NH1	2.79	0.55
20:0u:90:THR:OG1	20:0u:91:PRO:HD2	2.06	0.55
21:0w:177:LYS:HB3	21:0w:181:LYS:NZ	2.21	0.55
24:1J:15:LEU:HD23	45:2z:77:ARG:HH11	1.71	0.55
24:1J:510:GLU:O	24:1J:514:ASN:ND2	2.39	0.55
27:1S:779:ASP:OD1	27:1S:780:THR:N	2.39	0.55
44:2v:375:TYR:O	44:2v:379:MET:HG3	2.05	0.55
47:3D:168:GLU:O	47:3D:169:ALA:C	2.48	0.55
57:3f:103:GLU:HA	57:3f:106:ASP:HB2	1.87	0.55
66:5L:49:VAL:HG23	66:5L:141:LEU:HB3	1.87	0.55
1:A:44:LEU:HD12	16:0k:795:ARG:NH2	2.22	0.55
2:AG:188:VAL:HG12	2:AG:421:ALA:HB1	1.88	0.55
2:AG:273:ALA:HB3	2:AG:295:VAL:HG23	1.87	0.55
2:AG:280:LYS:NZ	2:MG:89:PRO:HB2	2.21	0.55
1:AH:22:GLU:HG2	1:AH:81:TYR:HB2	1.87	0.55
1:AH:226:ASN:OD1	69:AH:500:GDP:N1	2.40	0.55
1:AH:290:THR:HA	1:AH:293:MET:HE2	1.88	0.55
1:AJ:347:ASN:ND2	2:AK:178:SER:OG	2.29	0.55
2:BA:180:ALA:HB3	2:BA:183:GLU:HB2	1.88	0.55
1:BB:380:ARG:O	1:BB:384:GLN:HG3	2.06	0.55
1:BJ:159:TYR:HB3	1:BJ:162:ARG:HG3	1.88	0.55
1:BJ:322:SER:OG	1:BJ:325:GLU:OE1	2.23	0.55
1:CE:232:VAL:O	1:CE:236:VAL:HG23	2.06	0.55
1:CM:167:PHE:CD2	1:CM:233:MET:HE3	2.41	0.55
1:CM:375:GLN:NE2	1:CM:426:GLN:OE1	2.40	0.55
1:DC:87:PRO:HG2	1:EB:278:SER:HB2	1.88	0.55
1:DE:311:LEU:HA	1:DE:342:ILE:HD12	1.89	0.55
2:DH:237:SER:HA	2:DH:320:ARG:HD2	1.88	0.55
1:DK:130:LEU:HB2	1:DK:162:ARG:NH1	2.21	0.55
1:E:150:LEU:O	1:E:154:LYS:HG2	2.05	0.55
2:EA:66:LEU:HD12	2:EA:91:GLN:HA	1.87	0.55
1:ED:67:ASP:HA	1:ED:143:THR:HG21	1.87	0.55
2:EK:67:PHE:HB2	2:EK:92:LEU:HD23	1.88	0.55
1:EL:66:MET:HE2	1:EL:116:VAL:CG2	2.37	0.55
1:F:200:MET:SD	1:F:368:ILE:HD12	2.47	0.55
2:GG:142:GLY:HA2	2:GG:183:GLU:HG3	1.88	0.55
1:H:257:LEU:HB3	1:H:266:PHE:CE1	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HA:275:VAL:HG23	2:HA:368:LEU:HD11	1.88	0.55
1:HD:139:LEU:HG	1:HD:168:SER:OG	2.06	0.55
1:HD:186:THR:HG21	1:HD:385:PHE:HB2	1.89	0.55
2:IC:361:THR:HG22	7:0D:14:VAL:HG22	1.88	0.55
2:IE:372:GLN:HB3	7:0D:80:ARG:HG2	1.88	0.55
1:IF:274:THR:HG21	1:IF:282:ARG:HG2	1.89	0.55
2:JB:27:GLU:OE1	2:JB:243:ARG:NH2	2.40	0.55
2:JB:152:LEU:O	2:JB:156:ARG:HG2	2.05	0.55
1:JC:350:LYS:NZ	2:JD:179:THR:HG22	2.21	0.55
2:JD:177:VAL:HG12	2:JD:207:GLU:HG2	1.88	0.55
2:JH:237:SER:HA	2:JH:320:ARG:HD2	1.88	0.55
1:JI:170:ILE:N	1:JI:202:ILE:O	2.40	0.55
2:JJ:129:CYS:SG	2:JJ:130:THR:N	2.79	0.55
1:JM:210:ILE:HG23	1:JM:214:THR:HB	1.89	0.55
1:JM:355:ASP:OD2	15:0g:48:THR:OG1	2.22	0.55
1:KC:10:GLY:O	1:KC:14:ASN:ND2	2.40	0.55
2:KD:192:HIS:NE2	31:1q:20:HIS:HE1	2.02	0.55
1:KE:324:LYS:HZ2	2:KF:222:PRO:HG2	1.71	0.55
2:KF:123:ARG:NH2	2:KF:160:ASP:OD1	2.40	0.55
1:LG:49:VAL:O	1:LG:62:ARG:NH2	2.39	0.55
1:LG:191:GLN:HA	1:LG:194:GLU:OE2	2.05	0.55
1:LK:268:MET:HE1	1:LK:368:ILE:HA	1.87	0.55
2:LN:199:ASP:OD1	2:LN:200:VAL:N	2.39	0.55
2:LN:207:GLU:OE1	2:LN:304:LYS:NZ	2.39	0.55
1:M:46:ARG:NH2	2:MA:76:ASP:OD2	2.39	0.55
1:MH:189:VAL:O	1:MH:193:VAL:HG23	2.06	0.55
2:MI:172:TYR:CD2	2:MI:203:MET:HE1	2.41	0.55
2:MM:104:ALA:HB2	2:MM:413:MET:HE3	1.88	0.55
1:N:244:GLY:HA3	1:N:354:CYS:HA	1.89	0.55
1:NB:83:GLN:O	1:OB:281:TYR:OH	2.15	0.55
2:NC:255:PHE:HA	2:NC:258:ASN:HD22	1.71	0.55
2:NI:188:VAL:HG23	2:NI:425:LEU:HD22	1.88	0.55
2:NK:213:THR:HA	2:NK:217:LEU:HD23	1.87	0.55
2:NK:228:ASN:OD1	71:NK:501:GTP:N1	2.38	0.55
1:NL:20:PHE:CD1	1:NL:233:MET:HB3	2.40	0.55
2:NM:322:ASP:OD2	2:NM:372:GLN:NE2	2.40	0.55
2:OK:31:GLN:HG2	2:OK:37:PRO:HD3	1.89	0.55
2:OK:122:ILE:HG21	2:OK:157:LEU:HD21	1.88	0.55
1:PL:309:ARG:HH22	1:PL:342:ILE:HA	1.71	0.55
1:PL:421:GLU:HA	1:PL:424:GLN:HE21	1.70	0.55
2:Q:186:ASN:OD1	2:Q:408:TYR:OH	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QA:27:GLU:OE1	1:QA:241:ARG:NH2	2.39	0.55
2:QB:36:MET:HE2	2:QB:61:HIS:NE2	2.21	0.55
2:QJ:22:GLU:OE2	2:QJ:229:ARG:NE	2.31	0.55
2:QJ:196:GLU:HG3	2:QJ:197:HIS:CD2	2.41	0.55
1:QK:330:MET:HE3	1:QK:349:ILE:HG12	1.88	0.55
2:R:21:TRP:CZ2	2:R:65:CYS:HB3	2.42	0.55
2:RF:195:LEU:HD22	2:RF:264:ARG:HD2	1.89	0.55
2:RH:437:ALA:O	1:RI:391:ARG:NH2	2.40	0.55
1:SJ:10:GLY:O	1:SJ:14:ASN:ND2	2.39	0.55
2:SK:119:LEU:HD12	2:SK:156:ARG:HB3	1.88	0.55
1:TJ:19:LYS:NZ	1:TJ:223:GLY:O	2.38	0.55
2:TK:377:MET:HE2	2:TK:379:ALA:HB2	1.87	0.55
1:U:62:ARG:HG2	1:U:123:GLU:OE2	2.06	0.55
1:U:99:ASN:HA	1:U:142:GLY:HA3	1.87	0.55
2:UA:392:ASP:OD1	2:UA:393:HIS:N	2.39	0.55
1:UF:58:ARG:NH2	1:UF:83:GLN:O	2.40	0.55
1:UH:189:VAL:HG21	1:UH:378:PHE:HE2	1.70	0.55
2:VG:189:LEU:HD13	2:VG:413:MET:HE1	1.88	0.55
2:VK:51:THR:HG21	2:VK:242:LEU:HD13	1.89	0.55
1:WB:121:ARG:NH1	1:WB:158:GLU:OE2	2.39	0.55
1:WB:267:MET:HB2	1:WB:299:MET:HE1	1.87	0.55
2:WC:124:LYS:HE2	5:XN:30:PHE:CD1	2.42	0.55
2:WE:71:GLU:HB3	2:WE:98:ASP:HB2	1.87	0.55
1:WH:228:LEU:HD11	1:WH:273:LEU:HD11	1.89	0.55
1:WH:326:VAL:HG21	1:WH:353:ILE:HD11	1.88	0.55
2:WI:332:ILE:O	2:WI:336:LYS:HG2	2.07	0.55
3:XC:48:GLU:OE1	3:XC:161:ARG:NH1	2.28	0.55
6:0:54:LEU:HD11	6:0:70:LEU:HD11	1.89	0.55
9:0L:84:PRO:HA	9:0L:109:VAL:HG22	1.87	0.55
9:0M:333:PRO:HB2	9:0M:336:PHE:HB3	1.88	0.55
9:0N:558:LEU:HD23	9:0N:565:PHE:HB3	1.87	0.55
16:0l:436:ARG:HE	16:0l:473:SER:HA	1.71	0.55
17:0m:135:GLU:HA	17:0m:138:GLU:HG3	1.88	0.55
19:0r:35:ARG:NH1	19:0r:83:GLU:OE1	2.39	0.55
19:0r:237:TYR:HD1	19:0r:241:MET:HB3	1.70	0.55
24:1K:702:LEU:HG	24:1K:704:LEU:CD1	2.37	0.55
25:1O:363:PRO:HB2	25:1O:396:TYR:HE2	1.71	0.55
29:1m:163:TYR:CE1	29:1m:182:ARG:HG2	2.41	0.55
31:1r:159:ARG:NH2	48:3G:95:VAL:O	2.37	0.55
38:2V:87:HIS:HE1	38:2V:92:TRP:HD1	1.54	0.55
45:2z:16:TYR:CD1	45:2z:19:ARG:HD2	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:3D:401:ARG:NH1	47:3D:423:ILE:O	2.38	0.55
57:3i:164:PHE:HB3	57:3i:169:TYR:CD2	2.41	0.55
2:AC:102:ASN:HB3	2:AC:105:ARG:HB2	1.87	0.55
2:AE:223:SER:OG	2:AE:224:TYR:N	2.39	0.55
1:AJ:232:VAL:O	1:AJ:236:VAL:HG23	2.05	0.55
1:AN:330:MET:HE2	1:AN:349:ILE:HG21	1.87	0.55
1:BD:173:PRO:HA	1:BD:176:SER:HB2	1.89	0.55
1:BF:91:ILE:HD11	1:BF:119:VAL:HG21	1.87	0.55
2:BK:335:ILE:HG23	2:BK:341:ILE:HD11	1.88	0.55
1:CC:10:GLY:O	1:CC:14:ASN:ND2	2.40	0.55
2:CD:212:LEU:O	2:CD:216:SER:HB2	2.06	0.55
2:CJ:209:ILE:HG23	2:CJ:230:LEU:HD12	1.88	0.55
1:CM:237:THR:O	1:CM:241:ARG:NH1	2.39	0.55
1:DK:19:LYS:O	1:DK:22:GLU:HB3	2.06	0.55
1:DM:173:PRO:HG2	1:DM:380:ARG:HH11	1.71	0.55
1:E:152:ILE:HG23	1:E:164:MET:HG2	1.88	0.55
1:ED:67:ASP:OD1	1:ED:68:LEU:N	2.39	0.55
1:ED:186:THR:HA	1:ED:415:MET:HE1	1.88	0.55
1:EF:311:LEU:HA	1:EF:342:ILE:HD12	1.88	0.55
1:EF:326:VAL:HG21	1:EF:353:ILE:HD11	1.87	0.55
1:EL:299:MET:HE3	1:EL:299:MET:HA	1.89	0.55
1:FB:253:LEU:HD11	1:FB:316:LEU:HD21	1.87	0.55
1:FD:149:THR:HB	1:FD:191:GLN:HG2	1.89	0.55
2:FI:33:ASP:HA	2:FI:85:GLN:HB2	1.88	0.55
2:FK:51:THR:HG21	2:FK:243:ARG:HG2	1.88	0.55
2:FK:97:GLU:OE2	2:FK:105:ARG:NH2	2.33	0.55
1:G:56:GLY:HA2	17:0m:111:GLN:HE21	1.71	0.55
2:GE:213:THR:HG22	2:GE:217:LEU:HD12	1.88	0.55
1:GJ:187:LEU:HD21	1:GJ:408:PHE:CD1	2.42	0.55
1:GJ:345:ILE:O	1:GJ:348:ASN:ND2	2.38	0.55
2:GK:167:LEU:HD23	2:GK:200:VAL:HB	1.88	0.55
1:GL:235:GLY:HA3	1:GL:366:THR:HG21	1.88	0.55
1:HB:80:PRO:O	17:0m:66:LYS:NZ	2.36	0.55
2:HE:279:GLU:HA	17:0n:313:LEU:HD11	1.88	0.55
2:HE:298:PRO:HB3	2:HE:307:PRO:HD2	1.88	0.55
1:HF:346:PRO:O	2:HG:394:LYS:NZ	2.35	0.55
1:HH:372:THR:O	1:HH:375:GLN:HG2	2.06	0.55
2:HI:1:MET:N	2:HI:3:GLU:OE2	2.39	0.55
2:HK:396:ASP:OD1	2:HK:397:LEU:N	2.39	0.55
1:HL:186:THR:HG21	1:HL:385:PHE:CG	2.41	0.55
1:I:262:ARG:NH1	1:I:421:GLU:OE1	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:337:ASN:HB3	1:I:340:TYR:HB2	1.88	0.55
1:ID:333:VAL:O	1:ID:337:ASN:HB3	2.06	0.55
2:IE:199:ASP:HB3	2:IE:256:GLN:NE2	2.21	0.55
1:IH:227:HIS:CE1	7:0D:152:GLN:HG3	2.41	0.55
2:II:352:LYS:HD2	1:IJ:177:ASP:O	2.07	0.55
1:IL:360:GLY:HA2	38:2V:87:HIS:H	1.71	0.55
2:J:141:VAL:HG23	2:J:173:PRO:HD3	1.89	0.55
2:J:295:VAL:HG21	2:J:375:VAL:HG13	1.87	0.55
1:KE:246:LEU:HD21	2:KF:179:THR:HG21	1.87	0.55
2:L:258:ASN:HD22	1:LA:179:VAL:HG22	1.71	0.55
1:LA:324:LYS:HD2	2:LB:210:TYR:HB3	1.88	0.55
1:LE:248:SER:HA	1:LE:252:LYS:HD3	1.87	0.55
2:LF:152:LEU:O	2:LF:156:ARG:HG2	2.07	0.55
2:LJ:205:ASP:OD1	2:LJ:303:THR:HA	2.06	0.55
2:LJ:328:VAL:O	2:LJ:332:ILE:HG12	2.06	0.55
2:LL:122:ILE:HG21	2:LL:157:LEU:HD21	1.88	0.55
1:LO:83:GLN:O	1:MN:281:TYR:OH	2.16	0.55
1:LO:118:ASP:OD1	1:LO:122:LYS:HE2	2.06	0.55
1:LO:203:ASP:HB2	1:LO:301:GLN:HG2	1.88	0.55
2:MC:1:MET:N	2:MC:3:GLU:OE2	2.34	0.55
2:MK:419:SER:O	2:MK:423:GLU:HG3	2.06	0.55
2:MM:247:ALA:HB1	1:MN:222:PHE:HD2	1.70	0.55
1:ND:165:MET:CE	1:ND:200:MET:HE3	2.36	0.55
2:NE:120:ASP:OD1	2:NE:123:ARG:NH2	2.40	0.55
2:NE:195:LEU:HD21	2:NE:264:ARG:HE	1.70	0.55
2:NM:6:CYS:O	2:NM:65:CYS:HA	2.07	0.55
1:OD:63:ALA:O	1:OD:89:ASN:ND2	2.39	0.55
1:OD:332:ASN:OD1	1:OD:333:VAL:N	2.39	0.55
1:PF:242:PHE:HB2	1:PF:354:CYS:SG	2.47	0.55
2:PG:135:PHE:HB2	2:PG:166:LYS:HG2	1.88	0.55
2:PI:36:MET:SD	2:PI:61:HIS:NE2	2.80	0.55
2:PK:195:LEU:HD21	2:PK:264:ARG:HE	1.70	0.55
2:QB:212:LEU:HD13	2:QB:300:GLY:HA2	1.88	0.55
1:QC:247:ASN:H	2:QD:11:GLN:HE22	1.55	0.55
2:QF:329:ASN:ND2	1:QG:175:VAL:HG13	2.21	0.55
2:QL:3:GLU:HA	2:QL:51:THR:HA	1.88	0.55
2:R:336:LYS:HD3	2:R:351:PHE:CE2	2.40	0.55
1:RG:3:GLU:OE2	1:RG:62:ARG:NE	2.39	0.55
1:RI:272:PRO:HD2	1:RI:361:LEU:HD21	1.88	0.55
2:RJ:67:PHE:HB2	2:RJ:92:LEU:HD12	1.88	0.55
2:SA:286:LEU:O	2:SA:373:ARG:NH1	2.33	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SG:295:VAL:HG21	2:SG:375:VAL:HG13	1.87	0.55
2:SG:431:ASP:OD1	2:SG:432:TYR:N	2.40	0.55
1:SJ:159:TYR:HB3	1:SJ:162:ARG:HG3	1.88	0.55
2:SK:129:CYS:SG	2:SK:132:LEU:HB2	2.46	0.55
2:TC:118:ALA:O	2:TC:122:ILE:HG12	2.06	0.55
2:TG:286:LEU:HD12	2:TG:371:VAL:HG11	1.89	0.55
2:TI:102:ASN:HB3	2:TI:105:ARG:HB3	1.89	0.55
2:TI:431:ASP:OD1	57:3h:189:ARG:NH1	2.39	0.55
1:TJ:10:GLY:O	1:TJ:14:ASN:ND2	2.30	0.55
1:TL:44:LEU:HD23	1:TL:47:ILE:HG21	1.88	0.55
2:UA:3:GLU:O	2:UA:133:GLN:N	2.31	0.55
2:UC:126:ALA:CB	62:4B:168:TYR:CE1	2.83	0.55
2:UK:174:SER:HB2	2:UK:177:VAL:O	2.07	0.55
1:V:362:LYS:H	8:0F:169:MET:HE1	1.71	0.55
2:VC:173:PRO:HG3	2:VC:183:GLU:OE2	2.06	0.55
2:VG:274:PRO:HG2	2:VG:371:VAL:HG21	1.88	0.55
2:VG:334:THR:HA	2:VG:337:THR:HG22	1.89	0.55
1:VL:337:ASN:HB3	1:VL:340:TYR:HB2	1.87	0.55
1:W:131:GLN:HE21	1:W:250:LEU:HB2	1.71	0.55
1:WD:371:ASN:OD1	1:WD:372:THR:N	2.40	0.55
6:0:24:SER:HA	6:0:31:MET:HE3	1.88	0.55
9:0L:102:HIS:CD2	9:0L:142:GLY:HA3	2.40	0.55
9:0L:350:VAL:HB	9:0L:360:LEU:HB3	1.88	0.55
23:1A:133:TRP:O	23:1A:137:ASP:HB2	2.06	0.55
24:1J:241:VAL:O	24:1J:245:ARG:HG2	2.06	0.55
26:1Q:734:GLU:HA	26:1Q:737:ARG:HG2	1.88	0.55
31:1s:219:GLU:OE2	31:1s:259:ARG:NH2	2.40	0.55
46:3B:128:VAL:HG21	46:3B:212:LEU:HD22	1.88	0.55
57:3i:26:ARG:O	57:3i:30:ARG:HG3	2.07	0.55
65:5I:70:ALA:O	65:5I:73:GLN:HG3	2.06	0.55
1:AB:66:MET:HE2	1:AB:147:MET:HG2	1.88	0.55
1:AB:234:SER:O	1:AB:241:ARG:NH2	2.38	0.55
2:AI:40:LYS:HZ2	24:1I:96:ARG:HE	1.55	0.55
2:AK:129:CYS:SG	2:AK:130:THR:N	2.79	0.55
2:BC:250:VAL:HG11	2:BC:318:MET:HE1	1.88	0.55
1:CC:172:SER:OG	1:CC:205:GLU:OE1	2.18	0.55
1:CE:35:THR:HB	25:1O:762:LYS:HE3	1.88	0.55
1:CG:46:ARG:NH2	2:CH:76:ASP:OD2	2.33	0.55
2:CJ:71:GLU:OE1	2:CJ:73:THR:HG22	2.06	0.55
1:CK:20:PHE:CE1	1:CK:233:MET:HG2	2.41	0.55
1:CM:153:SER:HA	1:CM:195:ASN:HD22	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3:GLU:OE1	2:D:64:ARG:HD3	2.06	0.55
2:DH:91:GLN:HA	2:DH:121:ARG:HG2	1.89	0.55
1:DI:19:LYS:NZ	1:DI:223:GLY:O	2.40	0.55
2:DJ:273:ALA:HB3	2:DJ:295:VAL:HG23	1.89	0.55
1:DK:11:GLN:NE2	69:DK:500:GDP:O1A	2.36	0.55
1:EB:252:LYS:HD2	2:EC:101:ASN:HB2	1.87	0.55
1:EF:249:ASP:H	1:EF:252:LYS:HB2	1.71	0.55
1:EJ:323:THR:HA	1:EJ:326:VAL:HG12	1.88	0.55
2:FA:269:LEU:HD22	2:FA:303:THR:HG21	1.89	0.55
2:FI:271:SER:HB3	2:FI:301:MET:HA	1.89	0.55
1:FJ:22:GLU:HG3	1:FJ:81:TYR:CE1	2.40	0.55
1:FJ:309:ARG:NH2	1:FJ:343:GLU:OE1	2.39	0.55
2:FK:265:ILE:HG21	2:FK:313:MET:HE1	1.88	0.55
1:FL:267:MET:HA	1:FL:301:GLN:NE2	2.18	0.55
1:G:167:PHE:HE2	1:G:233:MET:HB2	1.70	0.55
1:GD:236:VAL:HG23	1:GD:237:THR:HG23	1.89	0.55
2:GG:67:PHE:HB2	2:GG:92:LEU:HD12	1.88	0.55
1:HB:252:LYS:HZ1	2:HC:101:ASN:N	2.04	0.55
2:HM:291:ILE:O	2:HM:295:VAL:HG23	2.07	0.55
1:I:3:GLU:OE1	1:I:62:ARG:NH1	2.40	0.55
1:I:35:THR:HG22	1:I:58:ARG:NH1	2.21	0.55
1:I:324:LYS:HG2	2:IA:210:TYR:CD1	2.42	0.55
2:IA:265:ILE:HG23	2:IA:432:TYR:CE1	2.41	0.55
2:II:293:ASN:O	2:II:297:GLU:HG2	2.07	0.55
1:JA:186:THR:HG21	1:JA:385:PHE:CG	2.42	0.55
1:JA:273:LEU:H	1:JA:292:GLN:HE22	1.54	0.55
1:JE:159:TYR:HB3	1:JE:162:ARG:HG2	1.88	0.55
1:JK:63:ALA:O	1:JK:89:ASN:ND2	2.39	0.55
2:K:88:ASN:HD21	2:L:280:LYS:HZ2	1.55	0.55
2:K:169:TYR:CE2	2:K:235:VAL:HG22	2.41	0.55
1:KC:313:ALA:HB3	1:KC:349:ILE:HD13	1.87	0.55
1:KK:217:LEU:HD21	49:3Q:178:GLN:HE22	1.72	0.55
2:LB:116:ASP:OD1	2:LB:117:LEU:N	2.38	0.55
1:LE:165:MET:SD	1:LE:200:MET:HE1	2.46	0.55
1:LG:215:LEU:HD21	25:1O:27:ILE:HG22	1.88	0.55
1:LI:324:LYS:HE2	35:2O:91:MET:HE1	1.89	0.55
2:LN:362:VAL:HG21	23:1F:366:GLN:HE22	1.71	0.55
2:MA:254:GLU:CD	1:MB:99:ASN:HB2	2.31	0.55
2:MG:295:VAL:HG12	2:MG:377:MET:HE2	1.89	0.55
1:MN:381:VAL:HG13	1:MN:415:MET:HE1	1.88	0.55
1:N:207:LEU:HB3	1:N:225:LEU:HD12	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:246:LEU:HD21	2:NA:179:THR:HB	1.89	0.55
2:NE:199:ASP:HB3	2:NE:256:GLN:HE22	1.71	0.55
2:NM:392:ASP:OD1	2:NM:393:HIS:N	2.39	0.55
1:O:66:MET:HE2	1:O:147:MET:SD	2.46	0.55
1:O:253:LEU:O	1:O:257:LEU:HB2	2.07	0.55
1:OD:133:PHE:HE2	1:OD:159:TYR:HD2	1.54	0.55
1:OJ:238:CYS:HB3	1:OJ:318:ARG:HE	1.70	0.55
1:OJ:360:GLY:HA3	28:1h:106:LEU:HD13	1.87	0.55
1:P:272:PRO:HG3	1:P:289:LEU:HD21	1.89	0.55
2:PA:257:THR:HG1	1:PB:397:TRP:CD1	2.23	0.55
2:PE:159:VAL:HG22	55:3b:45:LEU:HB3	1.89	0.55
2:PG:97:GLU:HG3	2:PG:105:ARG:HH12	1.71	0.55
2:PG:204:LEU:HD13	2:PG:231:ILE:HD13	1.89	0.55
1:PH:186:THR:HG22	1:PH:411:ALA:HB1	1.89	0.55
1:PL:326:VAL:HG21	1:PL:353:ILE:HD11	1.88	0.55
2:PM:212:LEU:HD21	2:PM:275:VAL:HG11	1.88	0.55
1:QA:324:LYS:HZ3	1:QA:325:GLU:CD	2.15	0.55
1:QE:350:LYS:HA	2:QF:179:THR:O	2.07	0.55
2:R:76:ASP:HA	2:R:79:ARG:HG2	1.87	0.55
1:RA:32:PRO:HA	1:RA:84:LEU:HD11	1.87	0.55
1:RA:125:GLU:OE1	1:S:336:LYS:NZ	2.40	0.55
2:RB:11:GLN:N	71:RB:501:GTP:O2B	2.39	0.55
1:RE:113:ILE:HG13	1:RE:117:LEU:HD23	1.88	0.55
2:RF:295:VAL:HG21	2:RF:375:VAL:HG13	1.89	0.55
1:SH:60:VAL:HG11	1:SH:86:ARG:HE	1.72	0.55
2:SI:295:VAL:HG21	2:SI:375:VAL:HG13	1.89	0.55
2:SI:365:GLY:C	41:2c:320:LYS:HZ3	2.15	0.55
1:SJ:185:THR:O	1:SJ:189:VAL:HG13	2.06	0.55
2:SK:52:PHE:HE2	2:SK:243:ARG:HD2	1.70	0.55
2:SK:123:ARG:NH1	61:3x:109:GLU:CG	2.57	0.55
2:SK:174:SER:O	2:SK:390:ARG:NH2	2.40	0.55
1:T:4:ILE:HD11	1:T:50:TYR:HE1	1.70	0.55
2:TI:167:LEU:HD11	2:TI:255:PHE:HZ	1.71	0.55
1:U:36:TYR:CE1	1:U:44:LEU:HG	2.41	0.55
1:UB:237:THR:HG22	1:UB:250:LEU:HD21	1.88	0.55
2:UG:217:LEU:HB3	2:UG:219:ILE:HG12	1.88	0.55
1:UJ:287:ALA:HA	1:UJ:329:GLN:NE2	2.15	0.55
2:UK:346:TRP:CG	1:UL:391:ARG:HH12	2.24	0.55
1:V:350:LYS:HZ1	2:VA:181:VAL:HG22	1.72	0.55
2:VC:55:GLU:OE2	2:VC:61:HIS:NE2	2.39	0.55
1:VD:236:VAL:HG13	1:VD:237:THR:HG23	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VH:323:THR:HG1	2:VI:210:TYR:HH	1.49	0.55
1:VJ:55:SER:H	1:WJ:283:GLY:HA2	1.71	0.55
2:WA:271:SER:HA	2:WA:302:LEU:HG	1.89	0.55
2:WA:406:HIS:HA	2:WA:409:VAL:HG22	1.89	0.55
1:WD:235:GLY:HA3	1:WD:366:THR:HG21	1.88	0.55
1:WH:10:GLY:O	1:WH:14:ASN:ND2	2.36	0.55
3:XB:92:THR:HB	3:XB:153:ARG:HB3	1.89	0.55
7:0D:344:TYR:HE1	17:0n:54:LEU:HD12	1.72	0.55
12:0W:41:MET:HG2	12:0W:48:LEU:HA	1.88	0.55
14:0c:296:ARG:HH11	21:0v:67:GLN:HA	1.71	0.55
16:0l:270:ARG:HH12	16:0l:361:LYS:HD3	1.72	0.55
17:0n:314:ILE:HG22	17:0n:318:ARG:HH11	1.72	0.55
21:0w:158:HIS:O	21:0w:162:MET:HG2	2.07	0.55
22:0z:252:ASN:ND2	22:0z:254:THR:OG1	2.39	0.55
28:1b:21:ARG:HB3	41:2h:351:ARG:CZ	2.35	0.55
28:1g:219:THR:HG23	28:1g:222:SER:H	1.70	0.55
28:1h:112:THR:HG23	28:1h:115:ARG:H	1.72	0.55
22:1w:189:GLU:HG3	22:1w:192:GLN:HE21	1.72	0.55
33:2F:81:ILE:HD12	33:2F:100:PRO:HB3	1.89	0.55
33:2G:203:ASN:OD1	33:2G:204:PHE:N	2.40	0.55
37:2S:91:GLN:NE2	37:2S:163:GLU:OE2	2.40	0.55
38:2U:165:PRO:HG2	38:2U:168:MET:HE2	1.89	0.55
46:3B:369:ARG:HB2	46:3B:403:LYS:HE3	1.87	0.55
48:3H:114:ARG:HA	48:3H:117:GLU:HG3	1.88	0.55
49:3P:356:ILE:HG13	49:3P:363:LEU:HD13	1.89	0.55
57:3i:87:LYS:O	57:3i:91:GLU:HG3	2.05	0.55
58:3m:92:SER:HB2	58:3m:95:GLU:HB2	1.88	0.55
59:3o:290:TYR:HA	59:3o:293:ILE:HB	1.88	0.55
2:AA:346:TRP:CD1	1:AB:391:ARG:HG3	2.42	0.55
1:AB:209:ASP:HA	1:AB:212:PHE:HD2	1.72	0.55
2:AC:387:VAL:O	2:AC:391:ILE:HG12	2.07	0.55
1:AF:326:VAL:O	1:AF:330:MET:HG2	2.07	0.55
1:AJ:424:GLN:HB2	4:XQ:249:LEU:HD13	1.89	0.55
1:AL:10:GLY:HA2	1:AL:143:THR:HG23	1.88	0.55
1:AL:79:GLY:HA2	24:1J:148:LYS:HE2	1.88	0.55
1:AN:165:MET:HE1	1:AN:236:VAL:HG11	1.89	0.55
1:BF:164:MET:HA	1:BF:164:MET:HE3	1.87	0.55
1:BH:59:TYR:OH	16:0l:922:ARG:NH2	2.39	0.55
2:BI:229:ARG:HD2	2:BI:363:VAL:HG21	1.88	0.55
2:BI:254:GLU:OE2	1:BJ:98:GLY:N	2.39	0.55
1:BJ:215:LEU:HB3	1:BJ:217:LEU:HD13	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BK:133:GLN:NE2	2:BK:251:ASP:HB3	2.18	0.55
1:CE:102:ALA:HB2	1:CE:403:MET:HE3	1.88	0.55
2:CF:103:TYR:HB3	2:CF:408:TYR:HE2	1.72	0.55
2:CH:180:ALA:HB3	2:CH:183:GLU:HB2	1.88	0.55
2:DL:295:VAL:HG21	2:DL:375:VAL:HG13	1.89	0.55
2:EA:172:TYR:CD2	2:EA:203:MET:HG3	2.42	0.55
1:ED:202:ILE:HD11	1:ED:268:MET:SD	2.46	0.55
1:EL:267:MET:HE2	1:EL:374:ILE:HD11	1.89	0.55
1:G:371:ASN:ND2	1:G:373:CYS:SG	2.80	0.55
2:GK:11:GLN:N	71:GK:501:GTP:O2B	2.40	0.55
1:H:65:LEU:HG	1:H:73:MET:HE1	1.89	0.55
2:HG:175:PRO:HD2	2:HG:207:GLU:OE1	2.07	0.55
2:HG:288:VAL:HA	2:HG:291:ILE:HG12	1.89	0.55
2:IA:180:ALA:HB3	2:IA:183:GLU:HB2	1.88	0.55
1:IB:244:GLY:HA3	1:IB:354:CYS:HA	1.89	0.55
1:IB:350:LYS:HD3	2:IC:180:ALA:HA	1.88	0.55
2:IE:345:ASP:OD1	2:IE:346:TRP:N	2.39	0.55
1:IF:236:VAL:HG13	1:IF:237:THR:HG23	1.87	0.55
2:II:336:LYS:HE3	2:II:351:PHE:HE2	1.72	0.55
1:IJ:2:ARG:N	2:IK:96:LYS:HZ1	2.05	0.55
2:JB:322:ASP:OD2	2:JB:373:ARG:NE	2.40	0.55
1:JC:404:ASP:OD1	1:JC:405:GLU:N	2.39	0.55
1:JE:256:ASN:HD21	2:JF:101:ASN:ND2	2.04	0.55
2:JH:425:LEU:O	2:JH:429:GLU:HG3	2.06	0.55
1:JK:215:LEU:HD13	1:JK:273:LEU:HD12	1.89	0.55
2:JL:285:GLN:HE22	2:JL:287:SER:HB2	1.71	0.55
2:JN:43:GLY:HA3	20:0u:232:TYR:HB2	1.88	0.55
1:KA:237:THR:OG1	1:KA:241:ARG:NH1	2.39	0.55
2:KD:64:ARG:NH1	2:KD:129:CYS:SG	2.80	0.55
1:KE:377:MET:HA	1:KE:380:ARG:HG2	1.89	0.55
2:KH:205:ASP:OD1	2:KH:303:THR:HA	2.06	0.55
2:KL:9:ILE:HD13	2:KL:150:GLY:HA2	1.88	0.55
2:L:102:ASN:HB3	2:L:105:ARG:HB2	1.88	0.55
2:LJ:209:ILE:HG23	2:LJ:230:LEU:HD23	1.87	0.55
1:LK:126:SER:HA	14:0d:82:ARG:HH11	1.72	0.55
1:M:181:GLU:HB3	1:M:182:PRO:HD3	1.89	0.55
1:MB:267:MET:HE3	1:MB:301:GLN:HB3	1.89	0.55
1:MB:292:GLN:O	1:MB:298:ASN:ND2	2.36	0.55
1:N:200:MET:HB3	1:N:266:PHE:HB2	1.89	0.55
2:NC:326:LYS:HA	2:NC:329:ASN:HD22	1.69	0.55
1:ND:207:LEU:HD13	1:ND:228:LEU:HD23	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ND:344:TRP:H	1:ND:344:TRP:CD1	2.24	0.55
2:NG:219:ILE:HB	2:NG:222:PRO:HG3	1.89	0.55
1:O:324:LYS:NZ	2:OA:222:PRO:O	2.38	0.55
1:OF:347:ASN:ND2	2:OG:178:SER:OG	2.32	0.55
2:OG:169:TYR:HE2	2:OG:235:VAL:HG22	1.72	0.55
2:OK:33:ASP:OD1	2:OK:34:GLY:N	2.40	0.55
1:OL:371:ASN:OD1	1:OL:372:THR:N	2.39	0.55
1:PD:68:LEU:HD12	1:PD:97:ALA:HB2	1.88	0.55
2:PG:89:PRO:HA	22:1x:253:GLN:NE2	2.20	0.55
2:PI:9:ILE:HD11	2:PI:153:LEU:HD23	1.89	0.55
1:PJ:323:THR:HA	1:PJ:326:VAL:HG12	1.89	0.55
1:QC:345:ILE:HG12	2:QD:398:MET:SD	2.46	0.55
2:QD:288:VAL:HB	2:QD:327:ASP:HB3	1.87	0.55
2:QJ:159:VAL:HG13	57:3h:87:LYS:HE2	1.88	0.55
2:RB:206:ASN:HB3	2:RB:210:TYR:CE2	2.41	0.55
2:RB:295:VAL:HG21	2:RB:375:VAL:HG13	1.87	0.55
2:RB:325:PRO:HA	2:RB:328:VAL:HG12	1.87	0.55
2:RH:367:ASP:OD1	2:RH:368:LEU:N	2.39	0.55
1:RK:67:ASP:HA	1:RK:143:THR:HG21	1.87	0.55
1:S:372:THR:HG21	1:S:426:GLN:HG2	1.88	0.55
1:SD:122:LYS:NZ	1:TD:291:GLN:HG2	2.21	0.55
2:SG:215:ARG:NH2	2:SG:299:ALA:HB1	2.22	0.55
1:SH:186:THR:HG23	1:SH:415:MET:HE3	1.87	0.55
2:SI:195:LEU:HD13	2:SI:428:LEU:HD21	1.87	0.55
2:SK:119:LEU:HD22	61:3x:106:HIS:ND1	2.22	0.55
1:T:397:TRP:O	1:T:401:GLU:HG2	2.07	0.55
2:TK:387:VAL:HG12	2:TK:390:ARG:NH1	2.22	0.55
2:VA:3:GLU:HA	2:VA:51:THR:HA	1.89	0.55
2:VA:70:LEU:HD22	2:VA:110:ILE:HG22	1.87	0.55
2:VC:293:ASN:OD1	2:VC:338:LYS:NZ	2.30	0.55
2:VI:180:ALA:HB3	2:VI:183:GLU:HB2	1.88	0.55
1:W:113:ILE:HA	1:W:116:VAL:HG12	1.89	0.55
8:0F:38:ALA:HB2	13:0Y:269:ARG:HD3	1.87	0.55
9:0L:112:GLN:HG2	9:0L:156:LYS:HA	1.89	0.55
11:0U:65:THR:H	11:0U:209:THR:HG21	1.71	0.55
19:0r:196:GLN:NE2	46:3B:242:THR:O	2.39	0.55
20:0t:186:GLU:O	20:0t:217:HIS:NE2	2.38	0.55
20:0u:131:GLU:HA	20:0u:134:ILE:HD12	1.89	0.55
24:1K:445:VAL:HG12	24:1K:456:ILE:HG12	1.88	0.55
27:1S:781:VAL:HB	27:1S:831:ALA:HB1	1.87	0.55
27:1T:762:ALA:C	27:1T:789:ARG:HH22	2.15	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:1j:16:ARG:HB2	29:1j:33:ALA:HB2	1.89	0.55
31:1r:220:GLN:O	31:1r:224:ILE:HG12	2.05	0.55
33:2F:194:PRO:HG2	33:2F:197:VAL:HG21	1.89	0.55
33:2I:284:ARG:NH2	33:2I:285:LYS:O	2.40	0.55
59:3p:102:ASP:OD1	59:3p:103:TYR:N	2.38	0.55
1:AB:2:ARG:HH22	2:AC:72:PRO:HD2	1.72	0.55
1:AB:226:ASN:OD1	69:AB:500:GDP:N1	2.38	0.55
1:AD:340:TYR:OH	5:XN:112:ASP:OD1	2.25	0.55
2:AE:89:PRO:HB2	2:BE:280:LYS:HE2	1.88	0.55
2:AI:188:VAL:O	2:AI:191:THR:OG1	2.23	0.55
2:BA:336:LYS:HD3	2:BA:351:PHE:HE1	1.71	0.55
2:BA:348:PRO:HG2	1:BB:384:GLN:NE2	2.20	0.55
2:BE:174:SER:HB2	2:BE:207:GLU:HG2	1.88	0.55
1:BF:249:ASP:OD1	1:BF:252:LYS:HG2	2.06	0.55
1:BF:316:LEU:HD23	1:BF:352:SER:HB2	1.87	0.55
1:BH:298:ASN:O	1:BH:298:ASN:ND2	2.39	0.55
2:BI:6:CYS:O	2:BI:65:CYS:HA	2.06	0.55
2:BM:2:ARG:NH1	2:BM:242:LEU:O	2.40	0.55
1:BN:276:ARG:HG3	24:1K:140:GLY:HA3	1.89	0.55
1:BN:284:LEU:HD21	1:BN:363:MET:HG2	1.89	0.55
2:CD:237:SER:HA	2:CD:320:ARG:HH11	1.72	0.55
1:CE:287:ALA:O	1:CE:291:GLN:HG2	2.07	0.55
2:CF:182:VAL:HG22	2:CF:185:TYR:HB2	1.88	0.55
1:CI:344:TRP:HB3	1:CI:430:VAL:HG12	1.89	0.55
1:CM:61:PRO:HD3	1:CM:84:LEU:HG	1.88	0.55
1:CM:113:ILE:HA	1:CM:116:VAL:HG12	1.88	0.55
1:CM:114:ASP:OD1	1:CM:115:SER:N	2.39	0.55
1:CM:332:ASN:O	1:CM:336:LYS:HG2	2.07	0.55
2:DB:180:ALA:HB3	2:DB:183:GLU:HB3	1.89	0.55
1:DC:63:ALA:O	1:DC:89:ASN:ND2	2.35	0.55
1:DC:166:THR:HG22	1:DC:199:SER:HA	1.89	0.55
1:DG:46:ARG:NH2	2:DH:76:ASP:OD2	2.39	0.55
1:E:103:LYS:HA	1:E:107:THR:HG22	1.87	0.55
2:EC:414:GLU:HG3	2:EC:416:GLY:H	1.71	0.55
1:ED:27:GLU:OE2	1:ED:318:ARG:NH1	2.38	0.55
1:ED:163:ILE:HG21	1:ED:250:LEU:HB3	1.87	0.55
1:EF:245:GLN:O	2:EG:11:GLN:NE2	2.39	0.55
2:EK:104:ALA:HB2	2:EK:413:MET:HE3	1.87	0.55
2:EK:260:VAL:HG23	2:EK:265:ILE:O	2.06	0.55
2:FA:209:ILE:HG21	2:FA:227:VAL:HG13	1.89	0.55
2:FC:274:PRO:HB3	2:FC:286:LEU:HD22	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FD:314:SER:HB3	1:FD:368:ILE:HB	1.89	0.55
2:FE:241:SER:OG	2:FE:250:VAL:N	2.38	0.55
1:FF:294:PHE:CE2	1:FF:333:VAL:HG21	2.42	0.55
1:FH:66:MET:HE1	1:FH:151:LEU:HD22	1.88	0.55
2:FK:212:LEU:HD21	2:FK:275:VAL:HG11	1.89	0.55
1:FL:10:GLY:O	1:FL:14:ASN:ND2	2.40	0.55
1:FL:215:LEU:HD21	1:FL:273:LEU:HD12	1.88	0.55
1:FL:313:ALA:HB3	1:FL:349:ILE:HG12	1.89	0.55
2:GA:224:TYR:O	2:GA:228:ASN:ND2	2.39	0.55
1:GD:337:ASN:HD21	59:4O:193:ARG:H	1.54	0.55
1:GJ:292:GLN:O	1:GJ:298:ASN:ND2	2.37	0.55
2:GK:258:ASN:HD22	2:GK:352:LYS:HE3	1.71	0.55
2:HA:291:ILE:O	2:HA:295:VAL:HG23	2.07	0.55
1:HD:173:PRO:HD2	1:HD:380:ARG:CZ	2.37	0.55
2:HG:337:THR:O	2:HG:339:ARG:NH1	2.34	0.55
1:HJ:14:ASN:HD21	1:HJ:73:MET:HE2	1.71	0.55
2:IA:223:SER:OG	2:IA:224:TYR:N	2.40	0.55
2:II:208:ALA:HB2	2:II:304:LYS:HG2	1.89	0.55
1:IL:173:PRO:CD	1:IL:380:ARG:HH12	2.20	0.55
1:JE:148:GLY:O	1:JE:152:ILE:HG12	2.06	0.55
1:JI:68:LEU:HD12	1:JI:97:ALA:HB2	1.88	0.55
1:KA:347:ASN:ND2	2:KB:178:SER:O	2.29	0.55
2:KB:352:LYS:HD2	2:KB:353:CYS:H	1.72	0.55
2:KH:101:ASN:OD1	2:KH:186:ASN:ND2	2.40	0.55
1:KI:267:MET:HE2	1:KI:299:MET:HE2	1.88	0.55
2:KL:212:LEU:HD21	2:KL:275:VAL:HG21	1.88	0.55
2:KL:239:THR:HB	2:KL:243:ARG:HH21	1.71	0.55
1:KM:324:LYS:O	1:KM:328:GLU:HB2	2.07	0.55
2:KN:194:LEU:O	2:KN:266:HIS:NE2	2.31	0.55
2:LB:167:LEU:HD13	2:LB:200:VAL:HB	1.88	0.55
1:LE:204:ASN:ND2	69:LE:500:GDP:O2'	2.40	0.55
2:LF:44:VAL:O	25:1O:7:ARG:NH1	2.40	0.55
1:LG:165:MET:HE2	1:LG:167:PHE:HE1	1.72	0.55
1:MB:144:GLY:N	69:MB:500:GDP:O2B	2.39	0.55
1:MF:212:PHE:CE1	33:2G:203:ASN:HA	2.42	0.55
1:MH:19:LYS:NZ	1:MH:223:GLY:O	2.38	0.55
1:N:174:ARG:HH22	1:N:380:ARG:HH21	1.55	0.55
2:NC:33:ASP:OD1	2:NC:34:GLY:N	2.40	0.55
2:OA:362:VAL:HG13	2:OA:370:LYS:HB3	1.89	0.55
1:OH:10:GLY:O	1:OH:14:ASN:ND2	2.39	0.55
2:OK:282:TYR:CD2	41:2o:190:TRP:HZ3	2.24	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OL:309:ARG:H	1:OL:372:THR:HG22	1.70	0.55
2:OM:180:ALA:HB3	2:OM:183:GLU:HB2	1.88	0.55
2:PA:34:GLY:O	2:PA:60:LYS:HG3	2.06	0.55
1:PB:303:ALA:HB1	1:PB:373:CYS:SG	2.47	0.55
2:PE:11:GLN:N	71:PE:501:GTP:O2B	2.39	0.55
1:PJ:172:SER:OG	1:PJ:205:GLU:OE1	2.22	0.55
1:PJ:324:LYS:HD3	2:PK:214:ARG:HH22	1.72	0.55
1:PL:263:LEU:HD11	1:PL:425:TYR:CD2	2.42	0.55
2:QH:53:PHE:HB3	2:QH:61:HIS:HB3	1.89	0.55
2:QH:206:ASN:OD1	71:QH:501:GTP:N2	2.39	0.55
2:RB:1:MET:HE2	1:RC:70:PRO:HG2	1.88	0.55
2:RL:224:TYR:HA	2:RL:227:VAL:HG22	1.88	0.55
1:SF:141:GLY:O	1:SF:145:SER:OG	2.23	0.55
2:SK:207:GLU:HG3	2:SK:210:TYR:HD2	1.72	0.55
1:T:161:ASP:O	1:T:251:ARG:NH2	2.40	0.55
1:UB:152:ILE:HG22	1:UB:195:ASN:HB3	1.88	0.55
1:UB:252:LYS:HD3	2:UC:100:ALA:HA	1.89	0.55
2:UG:269:LEU:HD13	2:UG:301:MET:HE1	1.89	0.55
2:UK:332:ILE:HD12	2:UK:351:PHE:CD1	2.42	0.55
1:UL:328:GLU:OE2	1:UL:332:ASN:ND2	2.34	0.55
2:VG:122:ILE:HG21	2:VG:157:LEU:HD21	1.88	0.55
2:VI:295:VAL:HG21	2:VI:375:VAL:HG13	1.88	0.55
1:VJ:73:MET:HG3	1:VJ:92:PHE:HB3	1.89	0.55
2:VM:406:HIS:HA	2:VM:409:VAL:HG22	1.87	0.55
2:WA:251:ASP:H	2:WA:254:GLU:HB3	1.72	0.55
2:WA:316:CYS:HB3	2:WA:378:ILE:HB	1.87	0.55
1:WB:232:VAL:O	1:WB:236:VAL:HG23	2.07	0.55
1:WB:249:ASP:H	1:WB:252:LYS:HB2	1.71	0.55
2:WE:39:ASP:OD1	2:WE:40:LYS:N	2.39	0.55
1:WL:67:ASP:OD1	1:WL:68:LEU:N	2.39	0.55
1:WL:309:ARG:NH2	1:WL:343:GLU:OE1	2.32	0.55
3:XC:48:GLU:OE2	3:XC:50:MET:HE2	2.07	0.55
4:XO:80:ALA:O	4:XO:85:ARG:NH1	2.40	0.55
16:0k:170:PHE:CG	16:0k:199:VAL:HG21	2.42	0.55
16:0k:404:ARG:HG2	16:0k:484:VAL:HA	1.88	0.55
24:1H:345:ILE:HG13	24:1H:361:TYR:CZ	2.41	0.55
25:1O:99:ASP:O	25:1O:103:PHE:HB2	2.06	0.55
22:1w:72:THR:HA	48:3F:43:LYS:NZ	2.22	0.55
33:2G:119:LYS:HA	33:2G:122:THR:HB	1.89	0.55
33:2G:194:PRO:HG2	33:2G:197:VAL:HG21	1.89	0.55
37:2S:151:SER:HA	37:2S:159:TRP:NE1	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:2Z:321:HIS:CE1	40:2Z:322:MET:HG3	2.40	0.55
41:2e:473:ASP:HA	41:2e:476:MET:HE2	1.88	0.55
44:2w:208:ILE:HG12	44:2w:362:ILE:HD12	1.89	0.55
44:2w:329:ILE:HG21	45:2z:90:PRO:HG3	1.86	0.55
1:AB:2:ARG:NH2	2:AC:72:PRO:HD2	2.22	0.55
1:AB:206:ALA:O	1:AB:210:ILE:HG12	2.07	0.55
1:AB:378:PHE:HE1	1:AB:418:LEU:HD23	1.72	0.55
2:AG:177:VAL:N	2:AG:207:GLU:OE2	2.38	0.55
2:AG:335:ILE:HG23	2:AG:341:ILE:HD11	1.88	0.55
2:AK:388:PHE:HA	2:AK:391:ILE:HG22	1.89	0.55
1:AN:10:GLY:HA2	1:AN:143:THR:HG23	1.89	0.55
1:AN:311:LEU:HA	1:AN:342:ILE:HD12	1.89	0.55
2:BG:258:ASN:HD22	2:BG:352:LYS:HD2	1.71	0.55
1:BH:268:MET:H	1:BH:301:GLN:NE2	2.04	0.55
2:CF:26:LEU:HD22	2:CF:363:VAL:HG12	1.89	0.55
1:CG:190:HIS:HB2	1:CG:414:ASN:ND2	2.21	0.55
1:CG:294:PHE:HD2	1:CG:333:VAL:HG21	1.72	0.55
2:CL:11:GLN:O	2:CL:15:GLN:HG3	2.07	0.55
2:CL:90:GLU:HG2	2:CL:91:GLN:OE1	2.07	0.55
1:DC:118:ASP:O	1:DC:122:LYS:HG2	2.07	0.55
1:DE:129:CYS:O	2:DF:96:LYS:NZ	2.40	0.55
1:DE:200:MET:HE2	1:DE:368:ILE:HD12	1.89	0.55
2:DF:71:GLU:HB3	2:DF:98:ASP:HB3	1.89	0.55
2:DH:141:VAL:O	2:DH:147:SER:OG	2.25	0.55
2:DJ:64:ARG:NH1	2:DJ:129:CYS:SG	2.79	0.55
2:DJ:377:MET:HE2	2:DJ:379:ALA:HB2	1.89	0.55
2:DL:199:ASP:OD2	2:DL:256:GLN:NE2	2.40	0.55
2:EE:293:ASN:O	2:EE:297:GLU:HG2	2.06	0.55
1:EF:178:THR:OG1	1:EF:181:GLU:HG3	2.07	0.55
1:EH:324:LYS:HB2	1:EH:328:GLU:OE1	2.07	0.55
1:EJ:249:ASP:H	1:EJ:252:LYS:HB3	1.71	0.55
2:EK:174:SER:OG	2:EK:177:VAL:O	2.21	0.55
1:EL:173:PRO:HA	1:EL:176:SER:HB3	1.89	0.55
1:F:267:MET:N	1:F:369:GLY:O	2.29	0.55
1:F:309:ARG:HE	1:F:342:ILE:HG12	1.71	0.55
1:FF:165:MET:HA	1:FF:165:MET:HE2	1.88	0.55
1:FF:167:PHE:HE1	1:FF:233:MET:HG2	1.71	0.55
1:FF:273:LEU:O	1:FF:292:GLN:NE2	2.31	0.55
1:FH:237:THR:HG22	1:FH:250:LEU:HD21	1.88	0.55
2:FK:205:ASP:OD1	2:FK:303:THR:HA	2.06	0.55
1:G:384:GLN:O	1:G:388:MET:HG3	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GC:167:LEU:HD11	2:GC:255:PHE:HZ	1.71	0.55
2:GI:204:LEU:HD22	2:GI:231:ILE:HG12	1.89	0.55
1:GJ:56:GLY:HA2	17:0n:169:ARG:CZ	2.36	0.55
2:GK:51:THR:HG21	2:GK:243:ARG:HG2	1.89	0.55
1:H:372:THR:O	1:H:375:GLN:HG2	2.07	0.55
1:HB:316:LEU:HB2	1:HB:366:THR:HG23	1.89	0.55
2:HE:179:THR:HG1	71:HE:501:GTP:HO3'	1.55	0.55
1:I:344:TRP:HZ3	2:IA:403:ALA:HB2	1.72	0.55
1:IB:178:THR:HB	1:IB:181:GLU:HG3	1.88	0.55
1:IH:68:LEU:HD12	1:IH:97:ALA:HB2	1.87	0.55
1:IH:173:PRO:HD2	1:IH:380:ARG:NH2	2.20	0.55
1:IJ:257:LEU:HD11	1:IJ:314:SER:HB3	1.88	0.55
2:IK:332:ILE:O	2:IK:336:LYS:HG2	2.07	0.55
2:IM:317:LEU:HB2	2:IM:353:CYS:HA	1.87	0.55
1:JA:416:ASN:HD21	60:3r:48:ILE:N	2.05	0.55
1:JI:10:GLY:O	1:JI:14:ASN:ND2	2.38	0.55
2:JL:5:ILE:HD12	2:JL:125:LEU:HB3	1.89	0.55
2:K:257:THR:HG1	1:KA:397:TRP:CG	2.25	0.55
1:KA:86:ARG:HG3	1:LA:281:TYR:HB3	1.89	0.55
1:LA:235:GLY:HA3	1:LA:366:THR:HG21	1.89	0.55
1:LA:334:GLN:HB3	22:1w:80:ARG:HH22	1.70	0.55
2:LB:270:THR:HG23	2:LB:302:LEU:HB2	1.89	0.55
1:LC:51:PHE:HB3	1:LC:59:TYR:HB3	1.88	0.55
1:LE:172:SER:HB3	1:LE:175:VAL:HG22	1.89	0.55
1:LM:128:ASP:OD1	1:LM:129:CYS:N	2.40	0.55
1:LM:202:ILE:HD13	1:LM:268:MET:HG3	1.89	0.55
1:LO:203:ASP:HB3	1:LO:301:GLN:HA	1.89	0.55
1:MB:175:VAL:HG21	1:MB:204:ASN:HB2	1.89	0.55
1:MD:294:PHE:CE2	1:MD:333:VAL:HG11	2.42	0.55
2:MG:1:MET:N	2:MG:3:GLU:OE2	2.39	0.55
1:MH:208:TYR:CE1	1:MH:225:LEU:HD11	2.42	0.55
2:MK:288:VAL:HG22	2:MK:373:ARG:HD3	1.88	0.55
1:ML:267:MET:HE1	1:ML:373:CYS:SG	2.46	0.55
1:N:316:LEU:HD13	1:N:352:SER:HB2	1.88	0.55
1:NB:327:ASP:HB3	2:NC:177:VAL:HG13	1.88	0.55
2:NC:291:ILE:O	2:NC:295:VAL:HG23	2.07	0.55
1:ND:215:LEU:HB3	1:ND:217:LEU:HD13	1.88	0.55
2:NM:226:ASN:HA	2:NM:229:ARG:HB2	1.88	0.55
1:O:11:GLN:N	69:O:500:GDP:O2B	2.33	0.55
1:O:39:ASP:H	1:O:43:GLN:HE22	1.55	0.55
1:O:255:VAL:HG23	2:OA:407:TRP:CG	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:350:LYS:HZ3	2:OA:180:ALA:CA	2.18	0.55
2:OA:15:GLN:HA	2:OA:18:ASN:HD21	1.71	0.55
2:OA:64:ARG:NH1	2:OA:129:CYS:SG	2.77	0.55
2:OE:265:ILE:HG23	2:OE:432:TYR:CE1	2.41	0.55
1:OF:173:PRO:HA	1:OF:176:SER:HB3	1.89	0.55
2:OK:7:ILE:HB	2:OK:137:VAL:HG12	1.89	0.55
2:OK:136:MET:HG2	2:OK:167:LEU:HB2	1.88	0.55
2:OM:223:SER:OG	2:OM:224:TYR:N	2.40	0.55
2:PA:223:SER:OG	2:PA:224:TYR:N	2.39	0.55
2:PA:315:CYS:HB3	2:PA:377:MET:HE3	1.88	0.55
1:PD:166:THR:HG21	1:PD:192:LEU:HD22	1.88	0.55
2:PE:435:VAL:O	1:PF:391:ARG:NH2	2.39	0.55
1:PH:377:MET:HG3	1:PH:378:PHE:N	2.21	0.55
2:PI:431:ASP:OD1	2:PI:432:TYR:N	2.40	0.55
2:Q:151:ALA:O	2:Q:154:LEU:N	2.40	0.55
2:Q:256:GLN:O	2:Q:260:VAL:HG22	2.07	0.55
1:QA:130:LEU:O	1:QA:162:ARG:NE	2.40	0.55
2:QD:166:LYS:HB2	2:QD:199:ASP:H	1.72	0.55
2:QD:248:LEU:HB2	2:QD:355:ILE:H	1.72	0.55
1:QE:379:ARG:NH2	1:QE:423:GLN:OE1	2.40	0.55
2:RB:91:GLN:HA	2:RB:121:ARG:HG2	1.89	0.55
1:RI:51:PHE:HB3	1:RI:59:TYR:HB3	1.88	0.55
1:RK:4:ILE:HB	1:RK:50:TYR:CE1	2.40	0.55
2:RL:328:VAL:O	2:RL:332:ILE:HG12	2.06	0.55
1:S:252:LYS:HG3	2:SA:100:ALA:HA	1.89	0.55
1:SB:236:VAL:HG13	1:SB:237:THR:HG23	1.88	0.55
2:SE:67:PHE:HB2	2:SE:92:LEU:HD12	1.89	0.55
1:SJ:117:LEU:HD11	1:SJ:154:LYS:HD2	1.89	0.55
2:TC:24:PHE:HA	2:TC:243:ARG:HH22	1.72	0.55
2:TG:169:TYR:CE2	2:TG:235:VAL:HG22	2.41	0.55
2:TK:71:GLU:HB3	2:TK:98:ASP:HB2	1.89	0.55
2:TK:329:ASN:ND2	1:TL:175:VAL:HG13	2.22	0.55
2:UC:6:CYS:O	2:UC:65:CYS:HA	2.06	0.55
1:UD:309:ARG:NH1	1:UD:339:SER:O	2.40	0.55
2:UE:264:ARG:HH21	2:UE:428:LEU:HD22	1.72	0.55
2:UI:11:GLN:HG3	2:UI:74:VAL:HG11	1.87	0.55
1:VD:292:GLN:HG2	1:VD:298:ASN:ND2	2.22	0.55
2:VI:186:ASN:OD1	2:VI:408:TYR:OH	2.25	0.55
2:VK:55:GLU:HG2	2:VK:61:HIS:HD1	1.71	0.55
1:VL:403:MET:HE3	1:VL:408:PHE:HE1	1.72	0.55
1:WH:130:LEU:O	1:WH:162:ARG:NE	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:WI:11:GLN:N	71:WI:501:GTP:O2B	2.38	0.55
3:XA:85:LYS:HB2	3:XA:159:ASN:HB3	1.89	0.55
4:XM:291:ASP:O	4:XM:295:ASN:ND2	2.38	0.55
9:0N:154:GLU:OE1	9:0N:155:THR:N	2.40	0.55
14:0d:228:GLN:HE22	33:2I:171:LEU:N	2.05	0.55
14:0d:278:ILE:HD11	14:0d:359:ALA:HA	1.88	0.55
16:0k:189:ALA:O	16:0k:193:SER:HB3	2.07	0.55
25:1O:587:ASN:OD1	25:1O:588:GLU:N	2.40	0.55
27:1T:745:ARG:NH2	27:1T:796:THR:OG1	2.40	0.55
22:1x:246:ILE:HD12	22:1x:258:LEU:CD1	2.37	0.55
33:2F:76:LYS:HG2	33:2F:79:GLY:H	1.71	0.55
41:2h:291:VAL:HG22	41:2h:295:HIS:HE1	1.70	0.55
46:3B:50:ILE:HG23	46:3B:113:MET:HE3	1.89	0.55
1:A:251:ARG:HH12	2:AA:105:ARG:CZ	2.20	0.55
1:AB:130:LEU:HB3	1:AB:162:ARG:HD2	1.89	0.55
1:AD:222:PHE:O	1:AD:226:ASN:ND2	2.40	0.55
1:AD:267:MET:HE2	1:AD:299:MET:HE3	1.89	0.55
2:AG:324:VAL:HG23	2:AG:327:ASP:H	1.71	0.55
2:AI:258:ASN:HD21	1:AJ:99:ASN:HD22	1.55	0.55
2:CH:26:LEU:HD21	16:0l:944:PRO:HB3	1.88	0.55
2:CJ:188:VAL:HG21	2:CJ:395:PHE:HB2	1.89	0.55
1:DC:19:LYS:HD3	1:DC:22:GLU:HG3	1.88	0.55
2:DF:254:GLU:O	2:DF:258:ASN:ND2	2.37	0.55
1:DM:53:GLU:OE2	27:1T:635:GLY:N	2.40	0.55
2:EA:271:SER:HA	2:EA:302:LEU:HD23	1.87	0.55
2:EC:330:ALA:O	2:EC:334:THR:HG23	2.07	0.55
2:EE:258:ASN:HD21	1:EF:180:VAL:HG22	1.71	0.55
2:EE:356:ASN:OD1	2:EE:357:TYR:N	2.39	0.55
1:EF:372:THR:HG21	1:EF:426:GLN:HB2	1.88	0.55
1:EH:76:VAL:HG13	1:EH:90:PHE:HE2	1.72	0.55
2:EK:258:ASN:OD1	1:EL:178:THR:OG1	2.19	0.55
1:FD:344:TRP:CG	2:FE:401:LYS:HZ3	2.24	0.55
2:GA:119:LEU:HA	2:GA:122:ILE:HB	1.89	0.55
2:GI:116:ASP:OD1	2:GI:117:LEU:N	2.38	0.55
2:GI:224:TYR:HA	2:GI:227:VAL:HG22	1.89	0.55
1:GL:2:ARG:N	1:GL:129:CYS:O	2.39	0.55
1:HD:170:ILE:HD13	1:HD:377:MET:HE2	1.88	0.55
2:HE:326:LYS:HD3	1:HF:220:PRO:HG2	1.88	0.55
2:HG:315:CYS:HB3	2:HG:377:MET:SD	2.47	0.55
1:HJ:103:LYS:NZ	1:HJ:401:GLU:OE2	2.40	0.55
1:I:99:ASN:HA	1:I:142:GLY:HA3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:167:PHE:HE1	1:I:200:MET:HE3	1.70	0.55
1:IB:153:SER:O	1:IB:157:GLU:HG3	2.07	0.55
1:ID:249:ASP:H	1:ID:252:LYS:HB2	1.71	0.55
1:IF:150:LEU:O	1:IF:154:LYS:HG2	2.07	0.55
2:IG:72:PRO:O	2:IG:76:ASP:HB2	2.07	0.55
1:IL:236:VAL:HG23	1:IL:237:THR:HG23	1.89	0.55
1:JA:260:PHE:HB2	1:JA:263:LEU:HD13	1.89	0.55
2:JB:211:ASP:OD1	2:JB:212:LEU:N	2.39	0.55
1:JC:371:ASN:OD1	1:JC:372:THR:N	2.40	0.55
1:JE:173:PRO:HD2	1:JE:380:ARG:HH12	1.70	0.55
1:JG:360:GLY:HA3	47:3D:143:TRP:CH2	2.42	0.55
2:JH:2:ARG:NH1	2:JH:2:ARG:HB2	2.22	0.55
2:JJ:254:GLU:O	2:JJ:258:ASN:ND2	2.39	0.55
1:JK:217:LEU:HD22	1:JK:220:PRO:HB3	1.88	0.55
1:JK:269:GLY:HA3	1:JK:367:PHE:HB3	1.88	0.55
2:KB:295:VAL:HG21	2:KB:375:VAL:HG13	1.89	0.55
2:KB:345:ASP:OD2	2:KB:346:TRP:N	2.40	0.55
2:KB:420:GLU:CD	22:1w:43:HIS:HD1	2.14	0.55
2:KF:276:VAL:HG13	2:KF:369:ALA:HB3	1.89	0.55
1:KK:226:ASN:OD1	69:KK:500:GDP:N1	2.36	0.55
1:LC:226:ASN:OD1	69:LC:500:GDP:N1	2.38	0.55
1:LO:375:GLN:OE1	1:LO:379:ARG:NH1	2.37	0.55
1:M:207:LEU:HD13	1:M:225:LEU:HB3	1.89	0.55
1:MB:293:MET:HG3	1:MB:367:PHE:HB2	1.89	0.55
1:N:167:PHE:CG	1:N:233:MET:HE1	2.42	0.55
1:N:344:TRP:H	1:N:344:TRP:CD1	2.25	0.55
1:NB:11:GLN:HA	1:NB:72:THR:HG21	1.88	0.55
1:NB:286:VAL:HG11	1:NB:325:GLU:HB3	1.89	0.55
2:NE:295:VAL:HG21	2:NE:375:VAL:HG13	1.89	0.55
2:NI:326:LYS:HZ3	1:NJ:220:PRO:C	2.14	0.55
1:NL:132:GLY:HA3	1:NL:163:ILE:O	2.07	0.55
2:OC:71:GLU:OE1	2:OC:73:THR:HG22	2.06	0.55
2:OE:251:ASP:H	2:OE:254:GLU:HB3	1.71	0.55
2:OI:406:HIS:HA	2:OI:409:VAL:HG22	1.89	0.55
1:P:167:PHE:CE2	1:P:233:MET:HG3	2.40	0.55
1:PD:324:LYS:CE	2:PE:222:PRO:HD2	2.37	0.55
1:PH:189:VAL:HG11	1:PH:415:MET:SD	2.47	0.55
1:PH:203:ASP:HB2	1:PH:301:GLN:OE1	2.06	0.55
2:PK:167:LEU:HD13	2:PK:252:LEU:HD23	1.87	0.55
2:QF:431:ASP:HA	58:3m:53:ARG:HH21	1.72	0.55
2:RB:326:LYS:HZ3	1:RC:220:PRO:HG2	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:RD:89:PRO:HD3	2:SC:283:HIS:CD2	2.41	0.55
1:RI:132:GLY:HA2	1:RI:162:ARG:HB3	1.88	0.55
2:SC:392:ASP:OD1	2:SC:393:HIS:N	2.40	0.55
1:SD:86:ARG:NH1	1:SD:123:GLU:OE2	2.39	0.55
1:TL:417:ASP:O	1:TL:420:SER:N	2.40	0.55
1:U:342:ILE:HG22	1:U:348:ASN:HD21	1.72	0.55
2:UA:2:ARG:HG2	2:UA:51:THR:HG22	1.88	0.55
1:UB:385:PHE:CE2	1:UB:412:GLU:HB2	2.40	0.55
2:UG:103:TYR:HB3	2:UG:408:TYR:HE2	1.71	0.55
2:UG:240:ALA:HA	2:UG:243:ARG:HE	1.72	0.55
1:UL:226:ASN:OD1	69:UL:500:GDP:N1	2.34	0.55
2:VA:157:LEU:O	2:VA:161:TYR:HB2	2.07	0.55
2:VE:117:LEU:HD21	2:VE:121:ARG:HH21	1.71	0.55
2:VK:312:TYR:HB2	2:VK:343:PHE:HD1	1.70	0.55
1:W:158:GLU:HG3	1:W:159:TYR:CD2	2.42	0.55
2:WA:286:LEU:O	2:WA:373:ARG:NH1	2.36	0.55
1:WD:293:MET:HE1	1:WD:317:PHE:CZ	2.42	0.55
1:WD:293:MET:HE2	1:WD:365:VAL:HG21	1.89	0.55
1:WD:294:PHE:HD1	1:WD:333:VAL:HG21	1.72	0.55
1:WF:173:PRO:HD2	1:WF:380:ARG:NH1	2.22	0.55
2:WM:254:GLU:O	2:WM:258:ASN:ND2	2.39	0.55
3:XB:126:ASP:H	3:XB:130:ASN:HD21	1.55	0.55
9:0L:28:ALA:HB2	9:0L:291:ALA:HB1	1.89	0.55
9:0L:329:ASP:HB3	9:0L:343:CYS:HB3	1.88	0.55
9:0M:61:ASN:OD1	9:0M:80:GLN:NE2	2.29	0.55
16:0k:951:LEU:O	16:0k:955:ALA:CB	2.55	0.55
17:0n:169:ARG:HH12	17:0n:170:ILE:HD13	1.72	0.55
19:0r:248:LEU:HD11	35:2N:274:ARG:HG2	1.87	0.55
24:1H:120:LEU:HD22	24:1H:131:VAL:HG22	1.88	0.55
26:1Q:526:ARG:O	26:1Q:530:ILE:HG12	2.07	0.55
27:1T:717:GLY:O	27:1T:720:ALA:N	2.40	0.55
28:1h:75:LYS:HE2	28:1h:80:GLU:HG2	1.89	0.55
29:1l:20:ILE:HG23	29:1l:75:TYR:CZ	2.42	0.55
22:1w:74:GLY:HA3	22:1w:129:ARG:HD2	1.89	0.55
22:1y:59:LEU:HD11	48:3I:45:GLU:HB2	1.89	0.55
33:2H:173:GLN:HA	33:2H:180:PRO:HG3	1.89	0.55
33:2I:89:ASP:OD2	33:2I:91:ARG:NH1	2.39	0.55
38:2U:260:ILE:HD11	38:2U:262:HIS:HE2	1.72	0.55
64:5B:245:LEU:HB2	65:5G:243:MET:HE1	1.88	0.55
2:AE:11:GLN:HG3	2:AE:74:VAL:HG21	1.89	0.55
2:AI:51:THR:HG21	2:AI:243:ARG:HG2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:83:GLN:NE2	24:1J:176:ARG:HH12	2.05	0.55
1:B:41:ASP:N	16:0k:779:GLU:OE2	2.39	0.55
1:BB:316:LEU:HD23	1:BB:352:SER:HB2	1.89	0.55
2:BC:60:LYS:HE2	2:CB:282:TYR:CD1	2.42	0.55
2:BC:116:ASP:OD1	2:BC:117:LEU:N	2.40	0.55
1:BF:262:ARG:NE	1:BF:421:GLU:OE2	2.35	0.55
1:BH:34:GLY:HA3	1:BH:58:ARG:HG3	1.89	0.55
1:CC:46:ARG:NH2	2:CD:76:ASP:OD2	2.40	0.55
2:CD:295:VAL:HG21	2:CD:375:VAL:HG13	1.88	0.55
2:CF:365:GLY:HA2	16:0k:172:ARG:HA	1.89	0.55
1:CI:11:GLN:HA	1:CI:72:THR:HG21	1.87	0.55
1:CI:62:ARG:NH1	1:CI:127:CYS:SG	2.80	0.55
1:CI:66:MET:SD	1:CI:151:LEU:HD22	2.46	0.55
2:CJ:212:LEU:HD21	2:CJ:275:VAL:HG11	1.88	0.55
1:DC:249:ASP:OD1	1:DC:252:LYS:N	2.36	0.55
1:DC:313:ALA:HB3	1:DC:349:ILE:HG12	1.88	0.55
1:DK:226:ASN:OD1	69:DK:500:GDP:N1	2.38	0.55
2:DL:310:GLY:O	2:DL:342:GLN:NE2	2.40	0.55
1:DM:375:GLN:HB3	1:DM:422:TYR:HD2	1.72	0.55
2:EC:90:GLU:HB2	2:EC:121:ARG:HD2	1.88	0.55
1:ED:5:VAL:HG12	1:ED:130:LEU:HD11	1.89	0.55
2:FA:180:ALA:HB3	2:FA:183:GLU:HB2	1.87	0.55
1:FB:200:MET:HG2	1:FB:266:PHE:HB2	1.88	0.55
1:FB:253:LEU:HD21	1:FB:316:LEU:HD11	1.89	0.55
1:FD:377:MET:HA	1:FD:380:ARG:HG2	1.88	0.55
1:FH:270:PHE:O	1:FH:298:ASN:ND2	2.31	0.55
1:GB:35:THR:HG23	1:GB:37:GLN:NE2	2.21	0.55
1:GD:272:PRO:HD3	1:GD:364:SER:HA	1.89	0.55
2:GE:53:PHE:HB3	2:GE:61:HIS:HB3	1.88	0.55
1:GH:324:LYS:O	1:GH:328:GLU:HG2	2.07	0.55
1:GL:299:MET:HE3	1:GL:299:MET:HA	1.87	0.55
1:H:148:GLY:O	1:H:151:LEU:HG	2.07	0.55
1:H:362:LYS:HB2	17:0m:114:TYR:CE2	2.42	0.55
1:HF:73:MET:HG3	1:HF:92:PHE:HB3	1.89	0.55
1:HF:371:ASN:OD1	1:HF:372:THR:N	2.40	0.55
1:HH:4:ILE:HB	1:HH:50:TYR:HE1	1.71	0.55
1:HJ:27:GLU:OE1	1:HJ:241:ARG:NH2	2.40	0.55
1:HJ:346:PRO:HG2	2:HK:394:LYS:NZ	2.22	0.55
2:HK:167:LEU:HD23	2:HK:200:VAL:HB	1.89	0.55
2:HM:172:TYR:HE1	2:HM:203:MET:HE1	1.71	0.55
1:IH:113:ILE:HG13	1:IH:117:LEU:HD23	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IH:292:GLN:HG2	1:IH:298:ASN:ND2	2.22	0.55
2:II:326:LYS:HE3	1:IJ:219:THR:HA	1.89	0.55
2:JF:431:ASP:OD2	60:3s:34:ILE:HD12	2.07	0.55
2:JH:117:LEU:O	2:JH:121:ARG:HG2	2.06	0.55
1:KE:284:LEU:HD23	1:KE:362:LYS:HE3	1.89	0.55
1:KM:309:ARG:NH2	1:KM:343:GLU:OE1	2.39	0.55
1:LA:45:GLU:OE2	29:1j:216:LYS:NZ	2.33	0.55
1:LG:129:CYS:HB2	2:LH:96:LYS:HE3	1.89	0.55
2:LH:3:GLU:HA	2:LH:51:THR:HA	1.88	0.55
1:LK:63:ALA:O	1:LK:89:ASN:ND2	2.39	0.55
2:LL:310:GLY:HA3	2:LL:383:ALA:HB2	1.89	0.55
2:LN:362:VAL:HG21	23:1F:366:GLN:NE2	2.22	0.55
1:M:268:MET:SD	1:M:368:ILE:HD13	2.47	0.55
1:MD:267:MET:HB2	1:MD:301:GLN:HG2	1.89	0.55
1:MD:345:ILE:HG23	1:MD:348:ASN:ND2	2.22	0.55
1:MH:2:ARG:HG3	1:MH:2:ARG:HH11	1.72	0.55
2:MI:26:LEU:HD12	2:MI:363:VAL:HG23	1.88	0.55
1:ML:3:GLU:O	1:ML:131:GLN:N	2.40	0.55
1:N:63:ALA:O	1:N:89:ASN:ND2	2.33	0.55
2:NA:174:SER:OG	2:NA:177:VAL:O	2.20	0.55
1:NB:19:LYS:HA	1:NB:22:GLU:HB2	1.89	0.55
1:NL:91:ILE:HD11	1:NL:119:VAL:HG11	1.89	0.55
1:NL:323:THR:HG22	2:NM:223:SER:HA	1.87	0.55
2:NM:270:THR:O	2:NM:301:MET:HE3	2.07	0.55
2:OA:318:MET:O	2:OA:375:VAL:HA	2.07	0.55
2:OC:150:GLY:O	2:OC:154:LEU:HD23	2.06	0.55
2:OC:213:THR:HA	2:OC:217:LEU:HD23	1.89	0.55
2:OC:237:SER:HA	2:OC:320:ARG:HH11	1.72	0.55
1:OJ:346:PRO:HG3	2:OK:394:LYS:HB3	1.88	0.55
1:PD:4:ILE:HD11	1:PD:240:LEU:HD13	1.88	0.55
2:PE:318:MET:O	2:PE:375:VAL:HA	2.06	0.55
1:PF:167:PHE:CE2	1:PF:233:MET:HG2	2.42	0.55
2:PI:138:PHE:HE2	2:PI:235:VAL:HG21	1.72	0.55
1:PJ:253:LEU:HD21	1:PJ:316:LEU:HD21	1.88	0.55
2:PK:167:LEU:HD21	2:PK:255:PHE:HZ	1.71	0.55
1:PL:183:TYR:CE2	1:PL:394:PHE:HB2	2.38	0.55
2:Q:2:ARG:HH21	1:QA:71:GLY:HA3	1.72	0.55
1:QA:324:LYS:HZ1	2:QB:222:PRO:HD2	1.72	0.55
2:QB:219:ILE:HG13	2:QB:222:PRO:HD3	1.89	0.55
2:QD:26:LEU:HD11	2:QD:364:PRO:HD3	1.88	0.55
1:QI:247:ASN:H	2:QJ:11:GLN:NE2	2.01	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QJ:71:GLU:HB3	2:QJ:98:ASP:HB3	1.89	0.55
1:QK:210:ILE:HA	1:QK:297:LYS:NZ	2.21	0.55
1:RA:67:ASP:OD1	1:RA:68:LEU:N	2.40	0.55
2:RD:175:PRO:HD2	2:RD:207:GLU:OE1	2.06	0.55
2:RD:295:VAL:HG21	2:RD:375:VAL:HG13	1.89	0.55
2:RF:272:TYR:HD1	2:RF:376:CYS:HB2	1.72	0.55
2:RH:178:SER:OG	2:RH:183:GLU:OE1	2.25	0.55
1:RI:2:ARG:HH21	1:RI:240:LEU:HD23	1.72	0.55
2:SA:185:TYR:HE2	2:SA:404:PHE:HB2	1.72	0.55
2:SA:215:ARG:HD2	59:3o:293:ILE:HD11	1.89	0.55
1:SB:73:MET:HG3	1:SB:92:PHE:HB3	1.89	0.55
2:SC:123:ARG:HH12	2:TC:297:GLU:HG3	1.71	0.55
1:SJ:257:LEU:HD11	1:SJ:314:SER:HB2	1.87	0.55
2:SK:212:LEU:HD11	2:SK:275:VAL:HG11	1.89	0.55
2:SK:392:ASP:HB3	2:SK:425:LEU:HD22	1.87	0.55
2:TA:192:HIS:NE2	2:TA:424:ASP:OD2	2.40	0.55
2:TG:229:ARG:HE	2:TG:363:VAL:HG21	1.71	0.55
1:TH:5:VAL:HG23	1:TH:62:ARG:HG2	1.87	0.55
2:TI:184:PRO:HA	2:TI:391:ILE:HD11	1.88	0.55
2:TK:54:SER:OG	2:TK:64:ARG:NE	2.32	0.55
1:UD:74:ASP:OD2	1:UD:75:SER:N	2.40	0.55
1:UD:167:PHE:CE1	1:UD:233:MET:HG2	2.41	0.55
1:UD:345:ILE:HA	2:UE:398:MET:HE1	1.87	0.55
2:UI:212:LEU:HD21	2:UI:275:VAL:HG11	1.89	0.55
1:UJ:347:ASN:HD22	2:UK:178:SER:HB2	1.72	0.55
1:VB:167:PHE:CZ	1:VB:233:MET:HG2	2.42	0.55
1:VD:218:THR:HG23	1:VD:219:THR:HG23	1.88	0.55
1:VD:252:LYS:NZ	71:VE:501:GTP:O1G	2.40	0.55
1:WF:49:VAL:HG11	1:WF:241:ARG:HG2	1.88	0.55
1:WL:346:PRO:HD2	2:WM:398:MET:HG3	1.89	0.55
3:XD:96:ASP:OD1	3:XD:97:LYS:N	2.40	0.55
9:0N:509:TYR:HB2	9:0N:527:SER:HB3	1.88	0.55
16:0k:60:GLU:O	16:0k:63:ARG:HD3	2.07	0.55
16:0k:777:LEU:HD13	16:0k:782:PRO:HD2	1.88	0.55
17:0m:128:GLU:HA	17:0m:131:LYS:HZ2	1.72	0.55
17:0n:408:LEU:O	17:0n:412:LEU:HB2	2.06	0.55
20:0t:213:ILE:HG13	20:0t:214:ARG:H	1.70	0.55
28:1b:12:TYR:CE2	28:1b:18:CYS:HB2	2.38	0.55
37:2S:227:ASN:HD21	37:2S:231:HIS:HB2	1.73	0.55
43:2t:154:ILE:HD11	43:2t:190:LEU:HD11	1.89	0.55
43:2t:239:PRO:HA	43:2t:242:ARG:HD2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:5D:86:SER:OG	65:5I:80:GLU:OE2	2.24	0.55
66:5K:28:ILE:O	66:5K:222:HIS:NE2	2.38	0.55
2:AA:70:LEU:HB3	2:AA:98:ASP:HA	1.88	0.54
1:AH:324:LYS:HZ3	2:AI:210:TYR:HB3	1.72	0.54
2:AK:116:ASP:OD1	2:AK:117:LEU:N	2.40	0.54
1:AL:68:LEU:HD12	1:AL:97:ALA:HB2	1.89	0.54
1:AL:83:GLN:HE22	24:1J:176:ARG:HH12	1.56	0.54
1:AN:207:LEU:HD22	1:AN:228:LEU:HD12	1.89	0.54
1:BF:213:ARG:HH21	1:BF:297:LYS:HG3	1.71	0.54
1:BH:11:GLN:HA	1:BH:72:THR:HG21	1.88	0.54
2:BI:190:SER:O	2:BI:194:LEU:HD12	2.07	0.54
1:BL:58:ARG:NH2	1:BL:83:GLN:O	2.41	0.54
1:BN:311:LEU:O	1:BN:348:ASN:ND2	2.39	0.54
1:BN:344:TRP:HB3	1:BN:430:VAL:HG12	1.89	0.54
2:CD:195:LEU:HD21	2:CD:428:LEU:HD22	1.89	0.54
1:CK:396:HIS:HA	1:CK:399:THR:HG22	1.89	0.54
1:DA:21:TRP:HA	1:DA:24:ILE:HG22	1.89	0.54
2:DJ:27:GLU:OE1	2:DJ:243:ARG:NH2	2.39	0.54
1:DK:97:ALA:HB2	1:DK:143:THR:HB	1.89	0.54
1:DK:139:LEU:HG	1:DK:168:SER:HB2	1.88	0.54
1:DM:320:ARG:NE	27:1T:736:ARG:HH21	2.05	0.54
1:E:347:ASN:ND2	2:EA:178:SER:O	2.37	0.54
1:EB:326:VAL:HG11	1:EB:353:ILE:HD11	1.88	0.54
1:ED:247:ASN:OD1	2:EE:11:GLN:NE2	2.39	0.54
1:EF:267:MET:HE1	1:EF:305:PRO:HG3	1.89	0.54
1:EH:337:ASN:HB3	1:EH:340:TYR:HB2	1.89	0.54
1:EJ:252:LYS:HA	2:EK:100:ALA:HB1	1.89	0.54
1:EJ:267:MET:HE2	1:EJ:299:MET:HG2	1.87	0.54
1:FB:235:GLY:HA3	1:FB:366:THR:HG21	1.89	0.54
2:FE:178:SER:HB2	2:FE:183:GLU:OE1	2.06	0.54
2:FE:274:PRO:HD2	2:FE:374:ALA:HA	1.88	0.54
2:FG:254:GLU:O	2:FG:258:ASN:ND2	2.40	0.54
1:FJ:134:GLN:HA	1:FJ:165:MET:HB2	1.88	0.54
2:FK:81:GLY:HA3	28:4W:187:TYR:HE2	1.72	0.54
1:G:254:ALA:O	1:G:258:VAL:HG22	2.07	0.54
1:GB:41:ASP:HB3	38:2U:316:VAL:HG21	1.89	0.54
1:GB:275:SER:O	1:GB:279:GLN:NE2	2.40	0.54
1:GD:91:ILE:HD11	1:GD:119:VAL:HG21	1.88	0.54
1:GD:156:ARG:HH21	1:GD:164:MET:HG2	1.71	0.54
1:GL:379:ARG:HB3	1:GL:419:VAL:HG21	1.89	0.54
1:HB:198:GLU:HB2	1:HB:266:PHE:HE2	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HD:54:SER:O	7:0D:56:ARG:NH2	2.40	0.54
2:HG:122:ILE:HG21	2:HG:157:LEU:HD21	1.89	0.54
1:HJ:95:SER:OG	1:HJ:108:GLU:OE2	2.25	0.54
2:IA:205:ASP:OD2	2:IA:303:THR:HA	2.08	0.54
1:ID:46:ARG:NH2	2:IE:76:ASP:OD2	2.40	0.54
1:ID:309:ARG:NH2	1:ID:343:GLU:OE1	2.40	0.54
1:IF:215:LEU:HD21	1:IF:273:LEU:HD12	1.89	0.54
1:IF:247:ASN:H	2:IG:11:GLN:HE22	1.56	0.54
1:IH:321:MET:HE2	1:IH:363:MET:HE3	1.89	0.54
2:II:27:GLU:OE1	2:II:243:ARG:NH2	2.39	0.54
1:IJ:274:THR:OG1	1:IJ:279:GLN:OE1	2.25	0.54
2:J:9:ILE:HG12	2:J:68:LEU:HD11	1.88	0.54
2:JF:104:ALA:HB2	2:JF:413:MET:HE3	1.89	0.54
1:JG:86:ARG:HB2	1:JG:89:ASN:OD1	2.07	0.54
1:JG:279:GLN:HE22	47:3D:135:HIS:HA	1.70	0.54
2:K:71:GLU:HB2	2:K:98:ASP:HB2	1.88	0.54
1:KA:129:CYS:HB3	2:KB:96:LYS:HD3	1.89	0.54
1:KC:171:PRO:HB2	1:KC:181:GLU:OE2	2.07	0.54
1:KC:181:GLU:HB3	1:KC:182:PRO:HD3	1.89	0.54
2:KD:297:GLU:CD	2:KD:298:PRO:HD2	2.32	0.54
1:KE:60:VAL:HG11	1:KE:86:ARG:HG3	1.89	0.54
2:KH:334:THR:HA	2:KH:337:THR:HG22	1.89	0.54
2:KJ:50:ASN:O	2:KJ:64:ARG:NE	2.40	0.54
2:KJ:406:HIS:HA	2:KJ:409:VAL:HG22	1.89	0.54
2:KL:58:ALA:HA	23:1E:64:ARG:HH12	1.71	0.54
2:L:72:PRO:HA	2:L:75:VAL:HG22	1.89	0.54
1:LC:377:MET:HB2	1:LC:380:ARG:HH21	1.73	0.54
2:LD:56:THR:HG22	2:LD:58:ALA:H	1.71	0.54
1:LG:68:LEU:H	1:LG:143:THR:HG21	1.72	0.54
1:LG:429:THR:O	2:LH:401:LYS:NZ	2.33	0.54
1:LI:139:LEU:HG	1:LI:168:SER:HB2	1.89	0.54
2:MA:270:THR:HG23	2:MA:302:LEU:HD13	1.87	0.54
1:MD:67:ASP:HA	1:MD:143:THR:HG21	1.88	0.54
2:MI:361:THR:OG1	40:2Z:360:ALA:O	2.23	0.54
2:MK:188:VAL:O	2:MK:421:ALA:HB1	2.08	0.54
1:N:202:ILE:HD11	1:N:268:MET:SD	2.47	0.54
1:N:410:GLU:HA	1:N:413:SER:HB3	1.88	0.54
1:NB:63:ALA:O	1:NB:89:ASN:ND2	2.40	0.54
2:NM:133:GLN:O	2:NM:165:SER:CB	2.52	0.54
1:O:142:GLY:N	69:O:500:GDP:O3B	2.39	0.54
1:OH:387:GLY:HA2	1:OH:390:ARG:HH11	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OI:257:THR:HG1	1:OJ:397:TRP:CD1	2.25	0.54
1:OJ:272:PRO:HD2	1:OJ:361:LEU:HD21	1.89	0.54
1:OL:322:SER:HB2	2:OM:221:ARG:HG2	1.88	0.54
2:OM:67:PHE:HB2	2:OM:92:LEU:HD13	1.89	0.54
2:OM:282:TYR:HB2	41:2p:469:LYS:HZ1	1.71	0.54
2:PE:273:ALA:HB3	2:PE:295:VAL:HG23	1.89	0.54
1:PH:103:LYS:HA	1:PH:107:THR:HG22	1.88	0.54
2:PM:195:LEU:HA	2:PM:266:HIS:CE1	2.43	0.54
2:QD:180:ALA:HB3	2:QD:183:GLU:HB2	1.89	0.54
1:QE:66:MET:SD	1:QE:116:VAL:HG21	2.46	0.54
2:QF:434:GLU:O	58:3m:53:ARG:NH1	2.41	0.54
2:QJ:203:MET:HE2	2:QJ:269:LEU:HD23	1.90	0.54
2:R:361:THR:HG22	28:1X:166:PRO:HD2	1.89	0.54
2:RJ:151:ALA:O	2:RJ:155:GLU:HG3	2.07	0.54
2:SC:348:PRO:HG2	1:SD:384:GLN:NE2	2.22	0.54
2:SC:422:ARG:HH12	2:SC:426:ALA:HB2	1.72	0.54
1:SF:19:LYS:NZ	1:SF:223:GLY:HA2	2.22	0.54
1:SF:293:MET:HE1	1:SF:330:MET:HE1	1.87	0.54
1:SH:263:LEU:HD21	1:SH:421:GLU:HG3	1.89	0.54
1:SH:313:ALA:HB1	1:SH:367:PHE:CE2	2.42	0.54
1:SH:372:THR:HG21	1:SH:426:GLN:HB2	1.89	0.54
2:SI:78:VAL:HA	28:1V:43:TYR:CE1	2.42	0.54
2:SI:306:ASP:HB3	2:SI:309:HIS:CD2	2.42	0.54
1:T:200:MET:HB3	1:T:268:MET:HE1	1.88	0.54
1:T:262:ARG:HG3	1:T:262:ARG:HH11	1.72	0.54
1:T:318:ARG:HB3	1:T:357:PRO:HA	1.89	0.54
1:TB:229:VAL:HG12	1:TB:233:MET:HE3	1.89	0.54
1:TD:215:LEU:HD11	1:TD:228:LEU:HD21	1.89	0.54
2:TI:271:SER:HB3	2:TI:301:MET:HG2	1.89	0.54
2:TK:252:LEU:HA	2:TK:255:PHE:CE1	2.42	0.54
2:UE:215:ARG:NH2	2:UE:299:ALA:O	2.40	0.54
1:UF:237:THR:HB	1:UF:240:LEU:HD12	1.87	0.54
1:VB:23:VAL:O	1:VB:27:GLU:HG3	2.06	0.54
1:VD:213:ARG:NH1	30:1o:29:MET:O	2.38	0.54
2:VG:170:THR:HG21	2:VG:194:LEU:HD21	1.88	0.54
1:VH:222:PHE:HD1	1:VH:225:LEU:HD12	1.73	0.54
1:VH:403:MET:HE1	1:VH:407:GLU:CD	2.32	0.54
1:VL:247:ASN:H	2:VM:11:GLN:HE22	1.53	0.54
1:W:257:LEU:HB3	1:W:266:PHE:CE1	2.42	0.54
1:WD:294:PHE:CD1	1:WD:333:VAL:HG21	2.42	0.54
2:WK:102:ASN:HB3	2:WK:105:ARG:HB3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:WK:388:PHE:HA	2:WK:391:ILE:HG22	1.89	0.54
2:WM:71:GLU:HB3	2:WM:98:ASP:HB3	1.88	0.54
4:XM:4:TYR:HH	9:0L:215:TYR:HH	1.50	0.54
5:XN:23:PRO:HD3	5:XN:127:VAL:HB	1.88	0.54
6:0:245:LEU:HD11	6:0:259:TYR:HB3	1.89	0.54
8:0I:44:GLU:HA	8:0I:47:ILE:HG22	1.89	0.54
9:0M:407:ALA:O	9:0M:447:ARG:NH1	2.40	0.54
9:0O:204:THR:OG1	9:0O:248:LEU:O	2.20	0.54
13:0a:85:THR:OG1	13:0a:87:GLU:OE1	2.23	0.54
16:0l:381:HIS:O	16:0l:476:ASN:ND2	2.40	0.54
16:0l:564:PRO:HD2	16:0l:567:ARG:HE	1.73	0.54
16:0k:933:ALA:HA	16:0k:936:GLN:HE21	1.71	0.54
24:1I:126:ASP:OD2	54:3a:121:THR:OG1	2.22	0.54
24:1K:677:PHE:O	24:1K:681:THR:HG23	2.06	0.54
28:1V:4:LEU:O	41:2c:358:ARG:NH2	2.40	0.54
31:1q:227:GLU:OE1	31:1q:248:LEU:HD22	2.07	0.54
31:1s:61:TYR:HD2	31:1s:72:MET:HB2	1.72	0.54
33:2H:245:MET:HB3	33:2H:277:ILE:HD13	1.89	0.54
41:2b:281:ARG:HH12	41:2b:282:LYS:NZ	2.05	0.54
47:3D:38:TYR:HB3	47:3D:42:THR:CB	2.33	0.54
64:5C:242:HIS:HA	64:5C:245:LEU:HG	1.89	0.54
68:5S:156:GLN:O	68:5S:160:LYS:HG3	2.08	0.54
1:A:119:VAL:O	1:A:123:GLU:HG2	2.07	0.54
1:AD:324:LYS:HB2	1:AD:325:GLU:OE1	2.08	0.54
1:BF:284:LEU:HD23	1:BF:362:LYS:HB3	1.89	0.54
2:BI:98:ASP:O	2:BI:105:ARG:NH2	2.40	0.54
2:BI:402:ARG:HG3	2:BI:405:VAL:HG11	1.89	0.54
2:CB:319:TYR:HB3	2:CB:323:VAL:HG21	1.90	0.54
2:CD:200:VAL:HG23	2:CD:256:GLN:NE2	2.22	0.54
1:CK:324:LYS:HD3	2:CL:210:TYR:CD1	2.41	0.54
2:CL:259:LEU:HD21	2:CL:316:CYS:SG	2.47	0.54
1:CM:137:HIS:ND1	1:CM:144:GLY:O	2.40	0.54
2:D:3:GLU:OE1	2:D:64:ARG:NH1	2.33	0.54
2:D:187:CYS:O	2:D:191:THR:HG23	2.07	0.54
2:DB:90:GLU:HG2	2:DB:91:GLN:HG3	1.89	0.54
1:DG:34:GLY:HA3	1:DG:58:ARG:HG3	1.89	0.54
1:DG:121:ARG:NH1	1:DG:158:GLU:OE2	2.40	0.54
1:DI:173:PRO:HA	1:DI:176:SER:HB2	1.90	0.54
2:DJ:195:LEU:HD21	2:DJ:264:ARG:HE	1.72	0.54
1:DM:73:MET:HG3	1:DM:92:PHE:HB3	1.88	0.54
2:EG:195:LEU:HD11	2:EG:428:LEU:HD13	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EL:215:LEU:HB3	1:EL:217:LEU:HD23	1.88	0.54
1:FB:128:ASP:O	59:4O:145:LYS:NZ	2.38	0.54
2:FC:11:GLN:O	2:FC:15:GLN:HG3	2.05	0.54
1:FJ:324:LYS:HD3	2:FK:210:TYR:CD2	2.42	0.54
2:GA:248:LEU:HB2	2:GA:355:ILE:H	1.72	0.54
2:GC:155:GLU:HA	2:GC:197:HIS:CG	2.43	0.54
1:GH:312:THR:HG21	2:GI:404:PHE:HZ	1.72	0.54
2:GK:234:VAL:HG11	2:GK:270:THR:HG21	1.90	0.54
2:HA:79:ARG:O	2:HA:84:ARG:HG2	2.07	0.54
1:HB:151:LEU:HG	1:HB:155:LEU:HD13	1.89	0.54
2:IA:90:GLU:HB2	2:IA:121:ARG:HE	1.72	0.54
2:IE:1:MET:N	2:IE:3:GLU:OE2	2.40	0.54
2:IG:271:SER:HB3	2:IG:301:MET:HA	1.89	0.54
1:IH:187:LEU:O	1:IH:190:HIS:NE2	2.40	0.54
2:II:204:LEU:HD22	2:II:231:ILE:HD12	1.87	0.54
1:IJ:272:PRO:HA	1:IJ:292:GLN:NE2	2.22	0.54
1:IL:350:LYS:HE2	2:IM:180:ALA:HA	1.88	0.54
1:JE:187:LEU:HD11	1:JE:408:PHE:CZ	2.42	0.54
2:JF:319:TYR:HB3	2:JF:323:VAL:HG21	1.90	0.54
1:JK:177:ASP:OD1	69:JK:500:GDP:O3'	2.24	0.54
1:KG:268:MET:HE1	1:KG:366:THR:HB	1.88	0.54
1:KI:167:PHE:CE1	1:KI:233:MET:HG2	2.42	0.54
1:KM:9:ALA:HB3	1:KM:137:HIS:HB3	1.90	0.54
2:KN:122:ILE:HG21	2:KN:157:LEU:HD21	1.88	0.54
1:LA:68:LEU:HD12	1:LA:97:ALA:HB2	1.89	0.54
2:LB:195:LEU:HA	2:LB:266:HIS:HE1	1.72	0.54
1:LE:246:LEU:HD11	71:LF:501:GTP:H5"	1.90	0.54
1:LE:344:TRP:HB3	1:LE:430:VAL:HG12	1.87	0.54
2:LL:1:MET:N	2:LL:3:GLU:OE2	2.38	0.54
1:LM:178:THR:HG22	1:LM:180:VAL:H	1.71	0.54
2:LN:188:VAL:HG12	2:LN:421:ALA:HB1	1.89	0.54
1:LO:316:LEU:HD23	1:LO:352:SER:HB2	1.89	0.54
1:MB:73:MET:HE2	1:MB:73:MET:HA	1.89	0.54
1:N:341:PHE:HB3	1:N:348:ASN:OD1	2.08	0.54
2:NC:237:SER:HA	2:NC:320:ARG:HD2	1.88	0.54
1:NH:316:LEU:HD23	1:NH:352:SER:HB2	1.87	0.54
2:NI:167:LEU:HD13	2:NI:200:VAL:HB	1.89	0.54
2:OC:60:LYS:HE2	41:2k:194:ARG:NH1	2.07	0.54
1:OF:217:LEU:HG	1:OF:220:PRO:HD3	1.89	0.54
2:OG:91:GLN:HG2	2:OG:121:ARG:HB3	1.88	0.54
1:OH:320:ARG:NH1	28:1h:72:GLY:O	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OH:385:PHE:HE2	1:OH:412:GLU:HB3	1.71	0.54
2:OI:200:VAL:HG23	2:OI:256:GLN:HG2	1.90	0.54
2:OK:287:SER:O	2:OK:291:ILE:HB	2.06	0.54
1:PD:326:VAL:O	1:PD:330:MET:HG2	2.07	0.54
2:PI:9:ILE:HD13	2:PI:150:GLY:HA2	1.90	0.54
1:PL:254:ALA:O	1:PL:258:VAL:HG22	2.07	0.54
2:QF:332:ILE:HD13	2:QF:335:ILE:HD11	1.88	0.54
1:QI:167:PHE:CE2	1:QI:233:MET:HG2	2.42	0.54
2:QJ:120:ASP:O	2:QJ:123:ARG:HG3	2.06	0.54
1:RC:389:PHE:HZ	1:RC:405:GLU:HG3	1.71	0.54
2:RF:187:CYS:O	2:RF:191:THR:HG23	2.07	0.54
1:RG:274:THR:HG22	1:RG:282:ARG:HD3	1.88	0.54
1:RI:347:ASN:ND2	2:RJ:178:SER:O	2.39	0.54
2:RJ:377:MET:SD	2:RJ:379:ALA:HB2	2.47	0.54
1:SH:309:ARG:HH21	1:SH:342:ILE:HA	1.72	0.54
1:SH:313:ALA:HB1	1:SH:367:PHE:HE2	1.72	0.54
1:SJ:269:GLY:HA3	1:SJ:367:PHE:HB3	1.90	0.54
1:T:256:ASN:HD21	2:TA:101:ASN:HD22	1.54	0.54
2:TC:209:ILE:HG12	2:TC:302:LEU:HD22	1.89	0.54
1:TD:202:ILE:HD12	1:TD:300:MET:HE3	1.89	0.54
1:TH:203:ASP:HB2	1:TH:301:GLN:OE1	2.08	0.54
1:TL:313:ALA:HB1	1:TL:367:PHE:HE1	1.72	0.54
1:U:86:ARG:HB3	1:U:89:ASN:ND2	2.23	0.54
1:UH:321:MET:HB3	1:UH:363:MET:HE2	1.89	0.54
1:UH:326:VAL:HG11	1:UH:353:ILE:HD11	1.89	0.54
2:UI:265:ILE:HG22	2:UI:380:ASN:HD21	1.72	0.54
2:UI:317:LEU:HD21	2:UI:377:MET:HE3	1.89	0.54
1:UJ:236:VAL:HG13	1:UJ:237:THR:HG23	1.89	0.54
1:UJ:318:ARG:HB3	1:UJ:357:PRO:HA	1.89	0.54
2:VA:386:GLU:OE1	2:VA:386:GLU:N	2.32	0.54
2:VE:224:TYR:HA	2:VE:227:VAL:HG22	1.88	0.54
2:VK:313:MET:HG2	2:VK:346:TRP:CZ2	2.41	0.54
2:VK:352:LYS:HD2	1:VL:177:ASP:O	2.06	0.54
1:VL:118:ASP:OD1	1:VL:121:ARG:NH2	2.39	0.54
2:VM:318:MET:HB2	2:VM:376:CYS:HB3	1.88	0.54
2:WA:325:PRO:HA	2:WA:328:VAL:HG22	1.88	0.54
2:WE:180:ALA:HB3	2:WE:183:GLU:HB2	1.89	0.54
2:WM:270:THR:HG23	2:WM:302:LEU:HB3	1.89	0.54
3:XB:126:ASP:N	3:XB:130:ASN:HD21	2.05	0.54
4:XM:121:THR:HG21	4:XM:165:GLY:HA2	1.90	0.54
17:0n:369:GLU:O	17:0n:372:ARG:HD3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:0w:81:GLU:HA	21:0w:84:ARG:HG2	1.90	0.54
23:1B:218:LEU:HA	23:1B:221:VAL:HG22	1.89	0.54
23:1E:134:ASP:OD1	23:1E:135:LEU:N	2.40	0.54
24:1H:445:VAL:HG12	24:1H:456:ILE:HG12	1.89	0.54
24:1J:479:ARG:NH2	24:1J:489:ASP:OD2	2.41	0.54
27:1S:181:ARG:NH1	27:1S:184:GLU:OE1	2.40	0.54
28:1a:256:VAL:HG22	28:1b:17:THR:HG23	1.87	0.54
31:1t:175:LEU:HG	22:1y:203:LEU:HD23	1.89	0.54
47:3D:347:TRP:O	47:3D:360:ARG:NH2	2.40	0.54
65:5G:195:MET:HG3	66:5K:162:ARG:HE	1.72	0.54
65:5H:174:GLU:O	65:5H:178:LYS:HG2	2.08	0.54
66:5K:50:VAL:HG13	66:5K:57:ARG:HB3	1.89	0.54
67:5O:32:GLY:HA2	67:5O:103:PHE:HD1	1.71	0.54
1:AB:178:THR:HB	1:AB:181:GLU:HG3	1.88	0.54
2:AC:79:ARG:HG2	2:AC:92:LEU:HD23	1.89	0.54
1:AF:311:LEU:HA	1:AF:342:ILE:HD12	1.90	0.54
1:AL:236:VAL:HG13	1:AL:237:THR:HG23	1.90	0.54
1:AN:21:TRP:HA	1:AN:24:ILE:HG22	1.88	0.54
1:BB:32:PRO:HG3	1:BB:81:TYR:CD1	2.43	0.54
2:BE:152:LEU:O	2:BE:156:ARG:HG2	2.08	0.54
1:BJ:5:VAL:HG12	1:BJ:130:LEU:HD11	1.89	0.54
2:BK:264:ARG:NH1	2:BK:431:ASP:OD2	2.39	0.54
2:CD:298:PRO:HB3	2:CD:307:PRO:HD2	1.89	0.54
1:CE:165:MET:HE1	1:CE:250:LEU:HD22	1.88	0.54
1:CI:309:ARG:H	1:CI:372:THR:HG1	1.54	0.54
1:CK:389:PHE:HZ	1:CK:405:GLU:HG3	1.71	0.54
1:DA:344:TRP:CD2	2:DB:401:LYS:HD2	2.43	0.54
2:DD:237:SER:HA	2:DD:320:ARG:HD2	1.90	0.54
1:DG:200:MET:HG3	1:DG:266:PHE:HB2	1.88	0.54
2:DJ:217:LEU:HD21	2:DJ:275:VAL:HG22	1.88	0.54
1:EH:215:LEU:HD21	1:EH:273:LEU:HD22	1.87	0.54
1:EL:311:LEU:HA	1:EL:342:ILE:HD12	1.89	0.54
2:FA:175:PRO:HB3	2:FA:390:ARG:HE	1.72	0.54
1:FD:207:LEU:HB3	1:FD:225:LEU:HD22	1.88	0.54
1:FF:159:TYR:HB3	1:FF:162:ARG:HG3	1.88	0.54
2:FG:176:GLN:HE22	63:4I:259:GLY:HA2	1.72	0.54
1:FH:371:ASN:OD1	1:FH:372:THR:N	2.39	0.54
2:FK:388:PHE:HA	2:FK:391:ILE:HG22	1.90	0.54
1:GB:27:GLU:OE1	1:GB:241:ARG:NH2	2.32	0.54
2:HC:173:PRO:HB3	2:HC:183:GLU:HG2	1.89	0.54
1:HH:2:ARG:N	1:HH:131:GLN:HB2	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HH:375:GLN:HB2	1:HH:419:VAL:HG23	1.88	0.54
1:HJ:189:VAL:HG21	1:HJ:415:MET:SD	2.46	0.54
2:IA:55:GLU:OE2	2:IA:61:HIS:NE2	2.40	0.54
2:IC:169:TYR:HA	2:IC:202:THR:HB	1.89	0.54
1:IL:189:VAL:HG11	1:IL:415:MET:HG3	1.89	0.54
1:JA:34:GLY:HA3	1:JA:58:ARG:HG3	1.88	0.54
1:JM:388:MET:HG3	1:JM:393:ALA:HB3	1.89	0.54
2:KB:211:ASP:O	2:KB:215:ARG:HG2	2.07	0.54
1:KE:171:PRO:HB2	1:KE:181:GLU:OE2	2.07	0.54
2:KJ:254:GLU:HA	1:KK:98:GLY:HA2	1.89	0.54
1:KM:207:LEU:HB3	1:KM:225:LEU:HD22	1.89	0.54
1:LA:287:ALA:O	1:LA:291:GLN:HG2	2.07	0.54
2:LH:265:ILE:HG23	2:LH:432:TYR:CE1	2.43	0.54
1:LI:201:CYS:SG	1:LI:301:GLN:NE2	2.81	0.54
1:LI:290:THR:HA	1:LI:293:MET:HG2	1.87	0.54
2:MA:265:ILE:HG22	2:MA:380:ASN:HD21	1.72	0.54
2:MA:438:GLU:OE2	33:2F:164:LYS:NZ	2.40	0.54
1:MB:12:CYS:HB2	69:MB:500:GDP:C8	2.43	0.54
2:MI:295:VAL:HG12	2:MI:377:MET:HE3	1.89	0.54
2:MI:318:MET:O	2:MI:375:VAL:HA	2.07	0.54
2:NC:239:THR:HG23	2:NC:243:ARG:NH1	2.23	0.54
2:NC:295:VAL:CG1	2:NC:377:MET:HG2	2.37	0.54
1:ND:248:SER:HA	1:ND:252:LYS:HG2	1.89	0.54
1:NF:316:LEU:HD13	1:NF:352:SER:HB2	1.89	0.54
1:NH:113:ILE:HG13	1:NH:117:LEU:HD23	1.89	0.54
2:NI:209:ILE:HG21	2:NI:227:VAL:HG13	1.90	0.54
2:NI:325:PRO:HA	2:NI:328:VAL:HG12	1.89	0.54
2:NK:184:PRO:HA	2:NK:391:ILE:HD11	1.88	0.54
1:NL:260:PHE:CE1	1:NL:425:TYR:HE2	2.25	0.54
1:NL:332:ASN:HA	1:NL:336:LYS:HZ3	1.72	0.54
2:OA:252:LEU:HA	2:OA:255:PHE:CE1	2.43	0.54
2:OE:89:PRO:HB2	2:PE:280:LYS:NZ	2.22	0.54
2:OI:270:THR:HG23	2:OI:302:LEU:HB2	1.89	0.54
1:OJ:203:ASP:OD1	1:OJ:377:MET:HE1	2.06	0.54
2:PA:104:ALA:HA	2:PA:413:MET:HE3	1.89	0.54
1:PB:345:ILE:HG12	2:PC:398:MET:HG2	1.89	0.54
2:PC:434:GLU:HG3	56:3d:90:HIS:CE1	2.42	0.54
1:PH:309:ARG:N	1:PH:372:THR:OG1	2.38	0.54
2:PI:311:LYS:HG2	2:PI:342:GLN:HG3	1.90	0.54
1:PL:275:SER:O	1:PL:279:GLN:NE2	2.40	0.54
1:QA:396:HIS:HA	1:QA:399:THR:HG22	1.87	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QB:213:THR:HA	2:QB:217:LEU:HD12	1.90	0.54
2:QB:339:ARG:HG3	59:4a:168:PRO:HD2	1.90	0.54
1:QC:164:MET:HA	1:QC:164:MET:HE3	1.89	0.54
1:QI:163:ILE:HD11	1:QI:251:ARG:HE	1.72	0.54
1:QK:99:ASN:HD21	1:QK:178:THR:HG21	1.72	0.54
2:RF:180:ALA:HB3	2:RF:183:GLU:HB2	1.90	0.54
2:RH:212:LEU:HD13	2:RH:300:GLY:HA2	1.89	0.54
1:RK:187:LEU:HA	1:RK:190:HIS:HE1	1.72	0.54
2:RL:422:ARG:HA	2:RL:422:ARG:NH1	2.22	0.54
1:S:130:LEU:HD23	1:S:162:ARG:HH11	1.73	0.54
1:SB:68:LEU:HB3	1:SB:96:GLY:HA2	1.90	0.54
1:SB:207:LEU:HD23	1:SB:225:LEU:HB3	1.89	0.54
2:TI:388:PHE:HA	2:TI:391:ILE:HG22	1.89	0.54
1:TL:234:SER:OG	1:TL:241:ARG:NH2	2.40	0.54
1:TL:332:ASN:HA	1:TL:335:ASN:HD21	1.72	0.54
1:UD:70:PRO:HA	1:UD:73:MET:HB2	1.88	0.54
1:UD:139:LEU:HG	1:UD:168:SER:HB3	1.89	0.54
1:UD:202:ILE:HD11	1:UD:268:MET:SD	2.48	0.54
2:UI:11:GLN:N	71:UI:501:GTP:O2B	2.40	0.54
1:UJ:247:ASN:H	2:UK:11:GLN:NE2	2.05	0.54
1:VB:152:ILE:HG23	1:VB:164:MET:SD	2.47	0.54
2:VC:70:LEU:HD22	2:VC:110:ILE:HG22	1.89	0.54
1:VJ:404:ASP:OD1	1:VJ:405:GLU:N	2.39	0.54
1:VL:256:ASN:O	1:VL:312:THR:HG21	2.06	0.54
1:W:272:PRO:HD3	1:W:364:SER:HA	1.88	0.54
2:WA:39:ASP:OD1	2:WA:40:LYS:N	2.40	0.54
2:WM:5:ILE:HD12	2:WM:125:LEU:HB3	1.89	0.54
5:XN:133:ARG:NH1	5:XN:177:GLU:OE2	2.30	0.54
6:0A:154:LYS:HZ1	14:0d:221:VAL:HG13	1.72	0.54
9:0N:336:PHE:CB	14:0d:25:PHE:HE1	2.20	0.54
16:0l:673:ARG:HG3	16:0l:675:VAL:HG12	1.89	0.54
16:0k:356:ASP:OD2	37:2S:107:ARG:NH1	2.37	0.54
16:0k:912:ILE:HG12	16:0k:967:ALA:HB1	1.88	0.54
24:1H:531:ILE:HG12	24:1H:581:GLU:HG2	1.89	0.54
30:1o:47:LYS:O	30:1o:51:ILE:HG12	2.07	0.54
31:1r:216:THR:C	31:1r:259:ARG:HH22	2.16	0.54
33:2F:74:ASN:HA	33:2F:80:PRO:HG2	1.88	0.54
64:5C:170:GLN:HG2	65:5H:166:PHE:HZ	1.71	0.54
67:5P:85:ALA:HB1	67:5P:101:ILE:HD12	1.90	0.54
2:AA:388:PHE:HA	2:AA:391:ILE:HG22	1.90	0.54
1:AB:336:LYS:HG2	4:XM:101:GLY:HA3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:66:MET:HE3	1:B:147:MET:HE2	1.90	0.54
1:BB:263:LEU:HG	1:BB:422:TYR:HE1	1.72	0.54
2:BG:169:TYR:CE2	2:BG:235:VAL:HG22	2.42	0.54
2:BK:79:ARG:NH2	2:BK:94:SER:OG	2.40	0.54
1:BL:167:PHE:CZ	1:BL:233:MET:HG2	2.42	0.54
1:BL:183:TYR:HE2	1:BL:394:PHE:HB2	1.73	0.54
1:CE:326:VAL:HG11	1:CE:353:ILE:HD11	1.89	0.54
2:CJ:151:ALA:O	2:CJ:155:GLU:HG3	2.06	0.54
1:CK:257:LEU:HD21	1:CK:314:SER:HB2	1.89	0.54
2:D:79:ARG:HG2	2:D:92:LEU:HD23	1.89	0.54
1:DA:20:PHE:HA	1:DA:230:ALA:HB1	1.89	0.54
2:DB:175:PRO:HB3	2:DB:390:ARG:HE	1.72	0.54
1:DE:322:SER:OG	1:DE:323:THR:N	2.40	0.54
1:DG:198:GLU:HB2	1:DG:266:PHE:HE2	1.71	0.54
2:DJ:324:VAL:HG13	2:DJ:327:ASP:H	1.72	0.54
1:DM:21:TRP:CE3	1:DM:24:ILE:HD11	2.42	0.54
2:EA:165:SER:HB3	2:EA:256:GLN:HE22	1.72	0.54
2:EA:174:SER:HB2	2:EA:207:GLU:HB2	1.89	0.54
2:EA:258:ASN:O	2:EA:314:SER:OG	2.18	0.54
1:ED:375:GLN:O	1:ED:379:ARG:HG3	2.08	0.54
2:EG:67:PHE:HB2	2:EG:92:LEU:HD12	1.89	0.54
1:EJ:396:HIS:HA	1:EJ:399:THR:HG22	1.89	0.54
2:EK:240:ALA:HA	2:EK:243:ARG:HB2	1.89	0.54
2:FA:9:ILE:HD13	2:FA:150:GLY:HA2	1.90	0.54
1:FF:167:PHE:HE2	1:FF:200:MET:HE3	1.73	0.54
2:GA:98:ASP:O	2:GA:105:ARG:NH2	2.38	0.54
2:GI:172:TYR:HD2	2:GI:203:MET:HG3	1.72	0.54
1:HB:67:ASP:OD1	1:HB:68:LEU:N	2.41	0.54
1:HB:236:VAL:HG13	1:HB:237:THR:HG23	1.89	0.54
1:HD:235:GLY:HA3	1:HD:366:THR:HG21	1.89	0.54
1:HF:239:CYS:HB3	1:HF:248:SER:H	1.73	0.54
2:HI:241:SER:OG	2:HI:250:VAL:O	2.18	0.54
1:HJ:173:PRO:HD2	1:HJ:380:ARG:NH1	2.22	0.54
2:IC:271:SER:OG	2:IC:295:VAL:HG13	2.08	0.54
1:ID:198:GLU:HB2	1:ID:266:PHE:HE2	1.72	0.54
1:IJ:181:GLU:HB3	1:IJ:182:PRO:HD3	1.90	0.54
1:IL:423:GLN:HA	1:IL:426:GLN:HG2	1.90	0.54
2:IM:317:LEU:HD13	2:IM:377:MET:CE	2.36	0.54
2:J:31:GLN:HG2	2:J:37:PRO:HD3	1.89	0.54
2:J:204:LEU:HD13	2:J:231:ILE:HD12	1.88	0.54
2:JF:31:GLN:HE21	2:JF:37:PRO:HG3	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JF:425:LEU:O	2:JF:429:GLU:HG3	2.07	0.54
1:JG:246:LEU:HB2	1:JG:353:ILE:H	1.72	0.54
2:JJ:240:ALA:HA	2:JJ:243:ARG:HB2	1.89	0.54
2:JJ:265:ILE:HG23	2:JJ:432:TYR:HE2	1.72	0.54
2:JL:430:LYS:HZ3	60:3t:30:GLN:C	2.15	0.54
1:JM:200:MET:HE3	1:JM:368:ILE:HD12	1.89	0.54
1:KI:59:TYR:OH	23:1E:142:ARG:NH2	2.41	0.54
1:KI:327:ASP:HB3	2:KJ:177:VAL:HG21	1.89	0.54
2:KJ:234:VAL:HG13	2:KJ:376:CYS:SG	2.48	0.54
1:KK:20:PHE:HA	1:KK:230:ALA:HB1	1.89	0.54
1:LA:253:LEU:HD21	1:LA:316:LEU:HD11	1.90	0.54
2:LB:102:ASN:HB3	2:LB:105:ARG:HB3	1.89	0.54
2:MA:437:ALA:O	1:MB:391:ARG:NH1	2.35	0.54
2:MC:46:ASP:OD2	45:2y:235:TYR:HB3	2.08	0.54
1:ML:324:LYS:HE3	2:MM:222:PRO:HD2	1.90	0.54
2:MM:293:ASN:O	2:MM:297:GLU:HG2	2.07	0.54
1:N:49:VAL:HG11	1:N:241:ARG:HG2	1.90	0.54
2:NA:239:THR:HG23	2:NA:243:ARG:HD2	1.88	0.54
1:NB:27:GLU:OE1	1:NB:241:ARG:NH2	2.40	0.54
1:NF:322:SER:OG	2:NG:222:PRO:O	2.26	0.54
2:NG:142:GLY:CA	2:NG:183:GLU:HG3	2.37	0.54
1:NH:295:ASP:OD2	1:NH:297:LYS:NZ	2.32	0.54
2:NK:388:PHE:HB2	2:NK:429:GLU:OE2	2.08	0.54
2:OC:331:ALA:O	2:OC:335:ILE:HG12	2.08	0.54
1:OD:185:THR:O	1:OD:189:VAL:HG22	2.08	0.54
2:OE:240:ALA:HA	2:OE:243:ARG:HE	1.72	0.54
2:OG:215:ARG:NH2	2:OG:299:ALA:O	2.39	0.54
2:OK:271:SER:HA	2:OK:302:LEU:HD12	1.88	0.54
2:PC:288:VAL:HA	2:PC:291:ILE:HG12	1.87	0.54
2:PC:326:LYS:HE3	1:PD:208:TYR:CD1	2.42	0.54
2:PC:387:VAL:HG12	2:PC:390:ARG:HH22	1.73	0.54
1:PD:63:ALA:O	1:PD:89:ASN:ND2	2.40	0.54
1:PD:164:MET:H	1:PD:197:ASP:HB2	1.73	0.54
1:PF:85:PHE:HB2	1:PF:90:PHE:HE1	1.72	0.54
1:PH:374:ILE:HG13	1:PH:377:MET:HE3	1.90	0.54
2:PI:179:THR:OG1	71:PI:501:GTP:O3'	2.23	0.54
2:PI:326:LYS:HG2	1:PJ:212:PHE:CZ	2.42	0.54
2:PK:211:ASP:HA	2:PK:214:ARG:HG2	1.89	0.54
2:PM:101:ASN:HA	2:PM:144:GLY:N	2.22	0.54
2:QB:167:LEU:HD21	2:QB:255:PHE:HZ	1.72	0.54
2:QB:268:VAL:HG11	2:QB:378:ILE:HG23	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QB:434:GLU:OE1	56:3d:127:LEU:HD13	2.07	0.54
2:QD:370:LYS:HG2	41:2h:258:GLN:NE2	2.23	0.54
2:QF:1:MET:N	2:QF:3:GLU:OE2	2.36	0.54
2:QF:3:GLU:HA	2:QF:51:THR:HA	1.89	0.54
1:QK:227:HIS:O	1:QK:227:HIS:ND1	2.35	0.54
1:QK:267:MET:N	1:QK:369:GLY:O	2.34	0.54
2:QL:311:LYS:HD3	2:QL:342:GLN:HE22	1.71	0.54
2:RF:387:VAL:O	2:RF:391:ILE:HG12	2.07	0.54
2:RH:11:GLN:N	71:RH:501:GTP:O1A	2.40	0.54
2:RH:271:SER:HB2	2:RH:301:MET:HG3	1.89	0.54
2:RH:325:PRO:HG2	2:RH:326:LYS:HZ3	1.72	0.54
2:SA:167:LEU:HD11	2:SA:255:PHE:HE1	1.73	0.54
2:SE:269:LEU:HD13	2:SE:301:MET:HE1	1.88	0.54
2:SE:338:LYS:HG2	2:SE:340:THR:HG22	1.89	0.54
1:SH:289:LEU:HD11	1:SH:363:MET:HG3	1.90	0.54
1:T:16:ILE:HD12	1:T:229:VAL:HG21	1.88	0.54
2:TE:271:SER:HB3	2:TE:301:MET:HA	1.90	0.54
1:TF:276:ARG:HB3	21:0w:256:GLU:HG3	1.89	0.54
2:UI:224:TYR:HA	2:UI:227:VAL:HG22	1.88	0.54
2:VA:210:TYR:CE1	2:VA:227:VAL:HG21	2.42	0.54
1:VD:226:ASN:HA	1:VD:229:VAL:HG22	1.90	0.54
2:VG:270:THR:HG23	2:VG:302:LEU:HB2	1.90	0.54
1:VJ:22:GLU:HG3	1:VJ:81:TYR:CD1	2.42	0.54
2:VM:212:LEU:HD21	2:VM:275:VAL:HG11	1.88	0.54
1:W:139:LEU:HG	1:W:168:SER:HB2	1.90	0.54
2:WA:177:VAL:N	2:WA:207:GLU:OE2	2.40	0.54
2:WC:49:PHE:HD1	2:WC:53:PHE:HB2	1.73	0.54
4:XQ:164:ASP:OD1	4:XQ:167:ARG:NH2	2.40	0.54
4:XQ:248:ASN:HB2	4:XQ:300:VAL:HG22	1.89	0.54
4:XR:88:ARG:O	4:XR:90:ARG:NH1	2.40	0.54
4:XR:211:HIS:O	4:XR:215:ILE:HG12	2.07	0.54
8:0I:194:ASN:O	8:0I:198:ILE:HD12	2.08	0.54
9:0O:283:VAL:HB	9:0O:307:TYR:CE2	2.43	0.54
10:0S:351:GLN:C	10:0S:351:GLN:HE21	2.14	0.54
11:0U:127:VAL:HG11	11:0U:185:ILE:HG22	1.90	0.54
22:0z:150:ASN:OD1	48:3H:70:PHE:HE2	1.88	0.54
23:1E:77:LEU:HD13	45:2z:85:ASP:OD2	2.08	0.54
24:1I:546:LEU:HG	24:1I:550:PHE:CE2	2.42	0.54
28:1X:156:LEU:HA	28:1X:159:GLN:HE21	1.73	0.54
28:1g:254:LEU:HD12	28:1h:19:VAL:HG21	1.89	0.54
29:1j:5:TYR:HE2	49:3P:402:GLN:HG2	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:1x:261:ARG:NH1	22:1x:265:ARG:HH21	2.05	0.54
42:2r:33:ARG:NH1	46:3B:391:LEU:HG	2.22	0.54
44:2w:162:ASN:OD1	44:2w:177:ARG:NH1	2.39	0.54
46:3B:27:LEU:HB3	46:3B:91:ASN:ND2	2.23	0.54
66:5K:80:ASN:OD1	66:5K:81:THR:N	2.40	0.54
66:5L:238:PHE:HB3	66:5L:246:LEU:HD11	1.90	0.54
67:5P:53:ARG:NH1	67:5P:56:CYS:SG	2.80	0.54
1:A:215:LEU:HD11	1:A:228:LEU:HD21	1.90	0.54
1:AB:21:TRP:HA	1:AB:24:ILE:HG22	1.89	0.54
1:AD:150:LEU:O	1:AD:154:LYS:HG2	2.08	0.54
1:AN:130:LEU:O	1:AN:162:ARG:NH1	2.40	0.54
1:B:282:ARG:HH22	1:B:292:GLN:HE21	1.55	0.54
1:B:378:PHE:HA	1:B:415:MET:HE2	1.89	0.54
2:BE:174:SER:OG	2:BE:177:VAL:O	2.23	0.54
1:BH:267:MET:HE1	1:BH:373:CYS:SG	2.47	0.54
1:BJ:311:LEU:HD23	1:BJ:342:ILE:HG21	1.88	0.54
2:BK:167:LEU:HD23	2:BK:200:VAL:HB	1.89	0.54
1:BL:276:ARG:HH21	24:1J:114:ARG:HD3	1.72	0.54
2:C:27:GLU:OE2	2:C:243:ARG:NH1	2.31	0.54
1:CG:344:TRP:HZ3	2:CH:403:ALA:HB2	1.73	0.54
2:CL:288:VAL:HB	2:CL:327:ASP:HB3	1.87	0.54
2:CL:328:VAL:HG21	2:CL:355:ILE:HD11	1.89	0.54
2:D:248:LEU:HB2	2:D:355:ILE:H	1.73	0.54
1:DA:254:ALA:O	1:DA:258:VAL:HG22	2.07	0.54
2:DB:237:SER:HA	2:DB:320:ARG:HD2	1.88	0.54
1:DC:267:MET:HE1	1:DC:373:CYS:SG	2.47	0.54
1:DE:163:ILE:HD11	1:DE:251:ARG:HB2	1.88	0.54
2:DF:265:ILE:HG21	2:DF:313:MET:HE1	1.89	0.54
1:DG:325:GLU:OE1	1:DG:325:GLU:N	2.40	0.54
2:DL:426:ALA:O	2:DL:430:LYS:HG2	2.08	0.54
1:ED:167:PHE:HD1	1:ED:268:MET:HE1	1.73	0.54
1:ED:203:ASP:HB3	1:ED:302:ALA:H	1.72	0.54
2:EG:53:PHE:HB3	2:EG:61:HIS:HB3	1.89	0.54
1:EH:267:MET:HB2	1:EH:369:GLY:H	1.72	0.54
1:F:91:ILE:HD11	1:F:119:VAL:HG21	1.89	0.54
2:FA:177:VAL:HB	2:FA:207:GLU:HG3	1.88	0.54
2:FE:392:ASP:HB3	2:FE:425:LEU:HD23	1.90	0.54
2:FG:335:ILE:O	2:FG:338:LYS:HB2	2.07	0.54
1:FL:20:PHE:HA	1:FL:230:ALA:HB1	1.88	0.54
2:GA:265:ILE:HG23	2:GA:432:TYR:HE1	1.71	0.54
1:GB:255:VAL:HG11	2:GC:100:ALA:O	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GG:265:ILE:HG21	2:GG:313:MET:HE1	1.88	0.54
1:GJ:163:ILE:HG21	1:GJ:250:LEU:HB3	1.90	0.54
2:GK:169:TYR:HD1	2:GK:202:THR:HB	1.72	0.54
2:HE:237:SER:HA	2:HE:320:ARG:HH11	1.71	0.54
1:HJ:346:PRO:HG2	2:HK:394:LYS:HZ3	1.71	0.54
1:IB:323:THR:HA	1:IB:326:VAL:HG12	1.89	0.54
1:ID:10:GLY:HA2	1:ID:143:THR:HG23	1.89	0.54
1:IF:322:SER:N	1:IF:325:GLU:OE2	2.34	0.54
1:IF:322:SER:HG	2:IG:222:PRO:C	2.14	0.54
2:J:49:PHE:HD1	2:J:53:PHE:HB2	1.71	0.54
2:J:413:MET:HE2	2:J:417:GLU:HB3	1.88	0.54
1:JE:256:ASN:ND2	2:JF:101:ASN:HD21	2.05	0.54
1:JK:267:MET:HE1	1:JK:373:CYS:SG	2.47	0.54
1:JM:347:ASN:ND2	2:JN:178:SER:OG	2.27	0.54
2:K:53:PHE:HB3	2:K:61:HIS:HB3	1.90	0.54
2:K:358:GLN:OE1	49:3P:544:ARG:NH1	2.39	0.54
2:KB:250:VAL:HG11	2:KB:352:LYS:HE3	1.89	0.54
1:KC:330:MET:HE2	1:KC:349:ILE:HD12	1.90	0.54
1:KI:203:ASP:HB2	1:KI:301:GLN:NE2	2.23	0.54
1:LE:181:GLU:HB3	1:LE:182:PRO:HD3	1.89	0.54
1:LE:362:LYS:N	23:1E:265:GLU:OE2	2.40	0.54
2:LF:89:PRO:HB2	2:ME:280:LYS:NZ	2.22	0.54
2:LF:120:ASP:OD1	2:LF:123:ARG:NH2	2.28	0.54
1:LG:194:GLU:HG3	13:0Z:90:LEU:HD11	1.88	0.54
1:LI:273:LEU:O	1:LI:292:GLN:NE2	2.36	0.54
2:LN:66:LEU:HD13	2:LN:122:ILE:HG12	1.90	0.54
1:LO:172:SER:OG	1:LO:174:ARG:NH2	2.40	0.54
1:MB:198:GLU:HB2	1:MB:266:PHE:HE2	1.72	0.54
1:MJ:251:ARG:CZ	2:MK:105:ARG:HE	2.20	0.54
1:MJ:290:THR:HA	1:MJ:293:MET:HE3	1.88	0.54
2:MK:98:ASP:OD1	2:MK:145:THR:OG1	2.25	0.54
2:MK:335:ILE:HG23	2:MK:341:ILE:HD11	1.88	0.54
1:ML:344:TRP:CG	2:MM:401:LYS:HZ1	2.26	0.54
1:MN:73:MET:HE3	1:MN:73:MET:HA	1.90	0.54
2:NA:229:ARG:HD2	2:NA:363:VAL:HG21	1.90	0.54
2:NC:27:GLU:OE2	2:NC:243:ARG:NH2	2.40	0.54
2:NK:170:THR:HB	2:NK:172:TYR:CE2	2.42	0.54
1:O:421:GLU:OE1	1:O:424:GLN:NE2	2.41	0.54
2:OA:384:ILE:HD11	2:OA:432:TYR:CZ	2.43	0.54
1:OF:328:GLU:OE2	1:OF:329:GLN:NE2	2.27	0.54
2:OG:169:TYR:CE2	2:OG:235:VAL:HG22	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OJ:8:GLN:HG2	1:OJ:17:GLY:HA3	1.89	0.54
2:OK:71:GLU:HB3	2:OK:98:ASP:HB3	1.90	0.54
2:PA:185:TYR:CE2	2:PA:404:PHE:HB2	2.42	0.54
1:PD:182:PRO:HG3	1:PD:384:GLN:HG3	1.90	0.54
2:PE:305:CYS:SG	2:PE:384:ILE:HA	2.48	0.54
2:Q:252:LEU:HA	2:Q:255:PHE:CE1	2.43	0.54
2:QH:28:HIS:NE2	2:QH:48:ALA:O	2.39	0.54
2:QH:431:ASP:OD1	2:QH:432:TYR:N	2.40	0.54
1:QI:66:MET:SD	1:QI:151:LEU:HD22	2.47	0.54
2:QL:70:LEU:HD11	2:QL:149:LEU:HD22	1.88	0.54
2:QL:320:ARG:O	2:QL:373:ARG:HA	2.07	0.54
1:RC:375:GLN:NE2	1:RC:423:GLN:OE1	2.40	0.54
2:RD:71:GLU:OE1	2:RD:73:THR:HG22	2.07	0.54
2:RF:209:ILE:HG21	2:RF:227:VAL:HG13	1.89	0.54
1:RG:2:ARG:HB3	1:RG:131:GLN:HB2	1.89	0.54
2:RH:206:ASN:OD1	71:RH:501:GTP:N2	2.40	0.54
1:RI:159:TYR:HB3	1:RI:162:ARG:HG2	1.88	0.54
1:RK:323:THR:HG21	2:RL:224:TYR:HD1	1.68	0.54
2:RL:439:SER:O	57:3i:98:LYS:NZ	2.40	0.54
2:SA:116:ASP:OD2	2:SA:117:LEU:N	2.41	0.54
2:SK:147:SER:HB2	2:SK:190:SER:HB3	1.90	0.54
2:TK:219:ILE:HD11	2:TK:367:ASP:HB3	1.89	0.54
2:TK:348:PRO:HD2	1:TL:388:MET:HE2	1.88	0.54
1:U:166:THR:O	1:U:200:MET:HB2	2.07	0.54
2:UA:288:VAL:HG11	2:UA:327:ASP:HB3	1.90	0.54
2:UE:258:ASN:HB2	1:UF:179:VAL:HG22	1.90	0.54
1:UF:190:HIS:HB2	1:UF:414:ASN:HD21	1.71	0.54
2:UG:76:ASP:HA	2:UG:79:ARG:HB2	1.90	0.54
2:VA:377:MET:HE3	2:VA:379:ALA:HB2	1.89	0.54
1:VD:11:GLN:NE2	69:VD:500:GDP:O1A	2.33	0.54
1:VD:213:ARG:HH12	30:1o:29:MET:HB3	1.72	0.54
2:VK:136:MET:HE3	2:VK:169:TYR:HE2	1.73	0.54
2:WE:64:ARG:NH1	2:WE:129:CYS:SG	2.79	0.54
2:WE:137:VAL:HG11	2:WE:154:LEU:HD21	1.89	0.54
2:WM:103:TYR:HD2	2:WM:413:MET:HE1	1.73	0.54
8:0I:213:LEU:HA	8:0I:216:HIS:NE2	2.22	0.54
23:1E:72:ARG:HH12	49:3Q:342:ARG:HH22	1.54	0.54
25:1O:311:ILE:HB	25:1O:335:ILE:HG12	1.88	0.54
28:1g:259:ILE:HG12	28:1h:22:ILE:HD13	1.89	0.54
49:3Q:327:PHE:HB2	49:3Q:478:ASP:OD1	2.08	0.54
1:AB:113:ILE:HG13	1:AB:117:LEU:HD23	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:404:ASP:OD1	1:AH:405:GLU:N	2.41	0.54
1:AL:226:ASN:OD1	69:AL:500:GDP:N1	2.41	0.54
2:BC:49:PHE:HB2	2:BC:53:PHE:HB2	1.90	0.54
2:BC:145:THR:OG1	71:BC:501:GTP:O1G	2.23	0.54
2:BE:177:VAL:HB	2:BE:207:GLU:HB3	1.90	0.54
1:BF:189:VAL:HG21	1:BF:415:MET:SD	2.47	0.54
2:BG:331:ALA:O	2:BG:335:ILE:HG12	2.07	0.54
2:BI:9:ILE:HD13	2:BI:150:GLY:HA2	1.88	0.54
1:BL:211:CYS:HB3	1:BL:220:PRO:HG2	1.89	0.54
1:CA:148:GLY:O	1:CA:152:ILE:HG12	2.07	0.54
2:CD:192:HIS:CE1	2:CD:421:ALA:HB2	2.42	0.54
2:CD:258:ASN:OD1	1:CE:179:VAL:HG22	2.07	0.54
1:CG:163:ILE:HD11	1:CG:251:ARG:HG3	1.90	0.54
1:CM:156:ARG:HH22	1:CM:197:ASP:CG	2.15	0.54
2:DF:177:VAL:HB	2:DF:207:GLU:HG2	1.89	0.54
1:DK:104:GLY:O	1:DK:147:MET:HB3	2.06	0.54
1:EF:4:ILE:HB	1:EF:50:TYR:HE1	1.72	0.54
1:F:9:ALA:HB3	1:F:137:HIS:HB3	1.89	0.54
1:FB:355:ASP:OD2	28:4W:42:THR:N	2.32	0.54
2:FC:121:ARG:NH1	2:FC:124:LYS:HD2	2.23	0.54
1:G:309:ARG:N	1:G:372:THR:OG1	2.38	0.54
1:G:311:LEU:HA	1:G:342:ILE:HD12	1.88	0.54
2:GA:271:SER:HB3	2:GA:301:MET:HA	1.90	0.54
2:GA:392:ASP:HB2	2:GA:422:ARG:HH12	1.73	0.54
2:GE:336:LYS:HE3	2:GE:351:PHE:CD2	2.42	0.54
2:GK:152:LEU:O	2:GK:156:ARG:HG2	2.08	0.54
1:H:153:SER:HB3	1:H:195:ASN:HD22	1.73	0.54
1:H:205:GLU:HB2	1:H:302:ALA:HB2	1.90	0.54
1:H:311:LEU:HD23	1:H:342:ILE:HG21	1.88	0.54
2:HA:282:TYR:CZ	17:0m:93:ARG:HB3	2.43	0.54
1:HB:186:THR:HG22	1:HB:411:ALA:HB1	1.88	0.54
2:HC:348:PRO:HD2	1:HD:384:GLN:HE22	1.73	0.54
1:HH:173:PRO:HD2	1:HH:380:ARG:CZ	2.38	0.54
2:HI:105:ARG:HH21	2:HI:110:ILE:HD13	1.73	0.54
1:HL:135:LEU:HD12	1:HL:136:SER:N	2.23	0.54
1:HL:139:LEU:HD12	1:HL:170:ILE:HG13	1.90	0.54
2:HM:253:THR:HA	2:HM:256:GLN:HG2	1.88	0.54
2:HM:399:TYR:O	2:HM:402:ARG:NH2	2.41	0.54
1:IB:290:THR:HA	1:IB:293:MET:HE2	1.88	0.54
1:IL:113:ILE:HG13	1:IL:117:LEU:HD23	1.89	0.54
1:JC:149:THR:HA	1:JC:152:ILE:HG12	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JE:379:ARG:O	1:JE:382:GLY:N	2.40	0.54
2:JF:155:GLU:HG3	2:JF:197:HIS:ND1	2.23	0.54
2:JH:188:VAL:HG22	2:JH:421:ALA:HB1	1.90	0.54
1:KK:97:ALA:HA	1:KK:103:LYS:HD2	1.89	0.54
2:KN:91:GLN:HG2	2:KN:121:ARG:HD2	1.90	0.54
2:LB:311:LYS:N	2:LB:382:THR:OG1	2.36	0.54
1:LC:212:PHE:HD2	1:LC:213:ARG:HD2	1.72	0.54
1:LG:191:GLN:O	1:LG:195:ASN:ND2	2.39	0.54
2:LH:46:ASP:OD2	19:0r:294:GLY:HA3	2.07	0.54
2:LH:285:GLN:NE2	2:LH:290:ASP:OD2	2.40	0.54
1:LK:299:MET:HA	1:LK:299:MET:HE2	1.89	0.54
2:LN:370:LYS:HD3	23:1F:362:THR:HG21	1.89	0.54
2:LN:420:GLU:OE1	6:0A:244:ARG:NH1	2.41	0.54
1:MD:18:SER:O	1:MD:22:GLU:HG3	2.08	0.54
1:MJ:270:PHE:HB3	1:MJ:273:LEU:HD11	1.88	0.54
2:MK:53:PHE:HB3	2:MK:61:HIS:HB3	1.90	0.54
1:ML:347:ASN:HB3	2:MM:178:SER:OG	2.07	0.54
1:NL:263:LEU:HD23	1:NL:370:ASN:HD21	1.73	0.54
2:OG:51:THR:HG21	2:OG:243:ARG:HG2	1.89	0.54
2:OI:212:LEU:HD13	2:OI:300:GLY:HA2	1.88	0.54
1:OJ:133:PHE:HB2	1:OJ:164:MET:HG3	1.89	0.54
1:P:127:CYS:SG	1:P:128:ASP:N	2.80	0.54
2:PC:406:HIS:HA	2:PC:409:VAL:HG22	1.88	0.54
1:PD:252:LYS:NZ	71:PE:501:GTP:O2A	2.41	0.54
1:PF:325:GLU:OE2	2:PG:221:ARG:HA	2.06	0.54
2:PK:413:MET:HE3	2:PK:417:GLU:HB2	1.89	0.54
1:QC:213:ARG:HB3	1:QC:297:LYS:HE2	1.90	0.54
2:QF:102:ASN:HB3	2:QF:105:ARG:HB2	1.90	0.54
1:QI:60:VAL:HG11	1:QI:86:ARG:HE	1.71	0.54
1:QK:218:THR:HG22	1:QK:219:THR:HG23	1.89	0.54
2:R:165:SER:HB3	2:R:253:THR:HG22	1.90	0.54
1:RA:263:LEU:HD12	1:RA:311:LEU:HD11	1.90	0.54
1:RC:62:ARG:NH1	1:RC:123:GLU:OE2	2.40	0.54
1:RE:39:ASP:OD2	28:1Y:34:ARG:NH1	2.41	0.54
2:RJ:265:ILE:HD13	2:RJ:432:TYR:CE1	2.43	0.54
2:RL:204:LEU:HG	2:RL:231:ILE:HD12	1.89	0.54
2:SC:315:CYS:HB3	2:SC:377:MET:HE3	1.88	0.54
1:SF:133:PHE:HB2	1:SF:164:MET:HE1	1.90	0.54
2:SI:274:PRO:HD2	2:SI:374:ALA:HA	1.89	0.54
1:SJ:118:ASP:O	1:SJ:122:LYS:HG2	2.07	0.54
1:T:22:GLU:HA	1:T:81:TYR:HD2	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:395:LEU:HD12	1:T:398:TYR:HB2	1.90	0.54
2:TA:214:ARG:NH1	2:TA:220:GLU:OE1	2.40	0.54
2:TI:229:ARG:HH11	2:TI:363:VAL:HG21	1.72	0.54
1:TJ:216:LYS:HB2	1:TJ:275:SER:HB3	1.87	0.54
2:TK:7:ILE:HB	2:TK:137:VAL:HG12	1.90	0.54
2:TK:51:THR:HG21	2:TK:243:ARG:HG2	1.88	0.54
2:TK:191:THR:HA	2:TK:194:LEU:HB2	1.89	0.54
1:TL:152:ILE:HG22	1:TL:195:ASN:CG	2.33	0.54
1:UD:3:GLU:O	1:UD:131:GLN:N	2.41	0.54
2:UE:251:ASP:H	2:UE:254:GLU:HB2	1.72	0.54
2:UI:180:ALA:HB3	2:UI:183:GLU:HB2	1.90	0.54
2:UI:215:ARG:HH21	2:UI:299:ALA:HA	1.72	0.54
2:UK:72:PRO:HD3	2:UK:96:LYS:HA	1.90	0.54
2:UK:268:VAL:HG23	2:UK:378:ILE:HD11	1.90	0.54
1:V:236:VAL:HG13	1:V:237:THR:HG23	1.89	0.54
1:V:255:VAL:HG11	2:VA:100:ALA:O	2.08	0.54
1:VB:268:MET:O	1:VB:299:MET:HG3	2.08	0.54
1:VF:8:GLN:HG3	1:VF:14:ASN:HA	1.89	0.54
1:VH:207:LEU:HD13	1:VH:225:LEU:HB3	1.89	0.54
1:VH:301:GLN:HB2	1:VH:377:MET:HE1	1.89	0.54
2:WG:167:LEU:HD13	2:WG:200:VAL:HB	1.88	0.54
2:WG:270:THR:HA	2:WG:377:MET:O	2.07	0.54
4:XO:121:THR:HG22	4:XO:123:PHE:H	1.72	0.54
8:0G:193:ARG:HH22	53:3X:37:PHE:HD2	1.55	0.54
10:0R:21:MET:HE2	10:0R:21:MET:HA	1.90	0.54
11:0U:124:ILE:HD11	11:0U:145:LEU:HB3	1.89	0.54
15:0f:85:ASP:OD1	20:0t:22:ARG:NH2	2.40	0.54
15:0f:218:GLU:OE2	15:0f:221:ARG:NH2	2.40	0.54
16:0l:924:GLY:O	16:0l:962:HIS:ND1	2.41	0.54
17:0n:209:ALA:HB1	17:0n:213:LYS:HZ3	1.72	0.54
24:1H:670:ARG:O	24:1H:674:MET:HG2	2.08	0.54
26:1Q:724:ASP:OD1	26:1Q:726:THR:OG1	2.24	0.54
28:1Y:52:LEU:HD12	28:1Y:53:GLU:N	2.23	0.54
28:1a:250:GLY:O	28:1b:31:PRO:CD	2.38	0.54
32:2C:123:ARG:HH21	32:2C:229:GLN:H	1.55	0.54
38:2V:120:ARG:NH1	38:2V:124:ASP:OD1	2.41	0.54
41:2e:471:LEU:O	41:2e:475:ILE:HG12	2.07	0.54
42:2r:13:VAL:O	42:2r:17:ARG:HG2	2.08	0.54
46:3B:112:VAL:HG22	46:3B:347:ALA:HB3	1.89	0.54
46:3B:353:LEU:HD11	46:3B:413:TYR:CD2	2.42	0.54
53:3W:158:ARG:HA	53:3W:162:CYS:HB2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:3b:22:GLN:HA	55:3b:25:ARG:NH1	2.19	0.54
57:3i:60:ASP:N	57:3i:60:ASP:OD1	2.41	0.54
64:5C:228:ARG:O	64:5C:231:ILE:HG22	2.08	0.54
66:5L:146:PHE:HB2	66:5L:242:LYS:NZ	2.23	0.54
2:AA:406:HIS:HA	2:AA:409:VAL:HG12	1.89	0.54
1:AD:91:ILE:HD11	1:AD:119:VAL:HG21	1.90	0.54
2:BI:262:TYR:HB2	2:BI:265:ILE:HG12	1.89	0.54
1:BL:44:LEU:HD13	16:0l:432:ARG:HD3	1.89	0.54
1:BL:267:MET:HE3	1:BL:371:ASN:HB3	1.90	0.54
2:BM:406:HIS:HA	2:BM:409:VAL:HG12	1.89	0.54
1:CC:293:MET:HE1	1:CC:330:MET:HE1	1.88	0.54
2:CJ:326:LYS:NZ	1:CK:220:PRO:O	2.41	0.54
1:DA:248:SER:HB2	1:DA:252:LYS:HG2	1.90	0.54
1:DG:153:SER:HA	1:DG:195:ASN:HD22	1.73	0.54
1:DM:208:TYR:CE2	1:DM:225:LEU:HD11	2.43	0.54
2:EA:271:SER:OG	2:EA:377:MET:HB3	2.08	0.54
2:EA:395:PHE:HD2	2:EA:422:ARG:HD3	1.72	0.54
2:EG:259:LEU:HD21	2:EG:268:VAL:HG11	1.90	0.54
2:EG:352:LYS:HA	1:EH:177:ASP:O	2.07	0.54
1:EJ:103:LYS:HA	1:EJ:107:THR:HG22	1.90	0.54
2:FA:33:ASP:O	2:FA:60:LYS:NZ	2.41	0.54
1:FB:324:LYS:HE3	2:FC:222:PRO:HD2	1.89	0.54
2:FC:237:SER:HA	2:FC:320:ARG:HD2	1.89	0.54
2:FE:211:ASP:HA	2:FE:214:ARG:HG2	1.89	0.54
1:FF:121:ARG:NH1	1:FF:158:GLU:OE2	2.40	0.54
1:FL:86:ARG:NH1	1:FL:123:GLU:OE2	2.40	0.54
1:GB:252:LYS:HZ3	2:GC:100:ALA:HA	1.73	0.54
2:GC:5:ILE:HD13	2:GC:135:PHE:HE1	1.73	0.54
1:GL:326:VAL:O	1:GL:330:MET:HG2	2.06	0.54
1:H:4:ILE:HD11	1:H:131:GLN:HE21	1.73	0.54
1:HB:153:SER:HA	1:HB:195:ASN:HD22	1.73	0.54
2:HC:402:ARG:NH1	2:HC:415:GLU:OE2	2.40	0.54
1:HD:190:HIS:HA	1:HD:193:VAL:HG12	1.89	0.54
2:HG:33:ASP:HA	2:HG:85:GLN:HB2	1.88	0.54
2:IA:320:ARG:NH2	2:IA:358:GLN:OE1	2.41	0.54
1:IB:2:ARG:HH21	2:IC:72:PRO:HD2	1.72	0.54
1:IB:330:MET:HA	1:IB:330:MET:HE3	1.90	0.54
2:IC:324:VAL:HG13	2:IC:327:ASP:H	1.73	0.54
2:IG:191:THR:HG21	2:IG:425:LEU:HD13	1.90	0.54
2:IG:392:ASP:HB3	2:IG:425:LEU:HD23	1.89	0.54
2:JH:328:VAL:O	2:JH:332:ILE:HG12	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JL:21:TRP:CZ2	2:JL:65:CYS:HB3	2.43	0.54
2:JL:152:LEU:O	2:JL:156:ARG:HG2	2.06	0.54
2:JN:240:ALA:HA	2:JN:243:ARG:HE	1.73	0.54
2:K:311:LYS:NZ	2:K:342:GLN:HE22	2.06	0.54
2:KD:181:VAL:HG23	2:KD:182:VAL:HG13	1.89	0.54
2:KH:69:ASP:OD1	2:KH:70:LEU:N	2.41	0.54
1:KK:67:ASP:HB2	1:KK:73:MET:HE3	1.90	0.54
1:KK:309:ARG:NH2	1:KK:342:ILE:HA	2.22	0.54
2:KL:195:LEU:HD12	2:KL:428:LEU:HD13	1.88	0.54
1:KM:55:SER:OG	23:1F:383:ASN:O	2.25	0.54
2:KN:211:ASP:O	2:KN:215:ARG:HG2	2.08	0.54
1:LG:156:ARG:NH1	1:LG:162:ARG:O	2.38	0.54
1:LG:401:GLU:OE2	33:2G:212:ARG:NH2	2.39	0.54
2:LH:6:CYS:HA	2:LH:136:MET:HB3	1.89	0.54
1:LI:256:ASN:HD21	2:LJ:101:ASN:HD22	1.56	0.54
1:LK:253:LEU:O	1:LK:257:LEU:HB2	2.08	0.54
2:LN:244:PHE:HB2	2:LN:356:ASN:HD21	1.72	0.54
1:MB:109:GLY:HA2	1:MB:147:MET:HE1	1.89	0.54
1:MB:281:TYR:O	1:MB:282:ARG:NE	2.35	0.54
1:MF:27:GLU:OE1	1:MF:241:ARG:NH1	2.41	0.54
1:MJ:330:MET:SD	1:MJ:349:ILE:HG21	2.48	0.54
1:N:407:GLU:OE1	1:N:407:GLU:N	2.38	0.54
2:NA:5:ILE:HD12	2:NA:125:LEU:HB3	1.88	0.54
1:NB:3:GLU:O	1:NB:131:GLN:N	2.40	0.54
1:NB:226:ASN:OD1	69:NB:500:GDP:N1	2.31	0.54
1:ND:345:ILE:HD12	2:NE:398:MET:SD	2.48	0.54
1:ND:350:LYS:HZ3	2:NE:179:THR:HG22	1.72	0.54
1:NF:385:PHE:HE2	1:NF:412:GLU:HB2	1.72	0.54
1:NH:139:LEU:HG	1:NH:168:SER:HB3	1.89	0.54
1:NH:323:THR:HG22	2:NI:223:SER:HA	1.89	0.54
1:O:170:ILE:N	1:O:202:ILE:O	2.41	0.54
1:O:267:MET:CG	1:O:268:MET:H	2.12	0.54
1:OH:2:ARG:N	1:OH:131:GLN:HB2	2.23	0.54
1:OL:150:LEU:HD11	1:OL:154:LYS:HE2	1.89	0.54
1:OL:316:LEU:HB2	1:OL:366:THR:CG2	2.37	0.54
1:PB:91:ILE:HG22	1:PB:112:LEU:HD21	1.88	0.54
1:PB:295:ASP:OD1	1:PB:296:ALA:N	2.41	0.54
2:PC:298:PRO:HB3	2:PC:307:PRO:HD2	1.89	0.54
2:Q:21:TRP:CZ2	2:Q:65:CYS:HB2	2.43	0.54
2:QD:27:GLU:OE2	2:QD:320:ARG:NH2	2.41	0.54
2:QD:99:ALA:HA	2:QD:110:ILE:HD11	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QE:303:ALA:HB1	1:QE:373:CYS:SG	2.48	0.54
2:QF:434:GLU:H	58:3m:53:ARG:HH22	1.54	0.54
2:R:306:ASP:HB3	2:R:309:HIS:ND1	2.22	0.54
1:RA:405:GLU:HA	1:RA:408:PHE:HD2	1.72	0.54
2:RB:324:VAL:HG13	2:RB:327:ASP:H	1.72	0.54
1:RG:337:ASN:HB3	1:RG:340:TYR:HD2	1.73	0.54
1:RI:139:LEU:HG	1:RI:168:SER:HB3	1.89	0.54
2:RL:372:GLN:HB3	2:RL:373:ARG:HD3	1.89	0.54
2:SA:1:MET:N	2:SA:3:GLU:OE2	2.40	0.54
2:SA:263:PRO:HG2	56:3d:220:LYS:NZ	2.23	0.54
2:SK:25:CYS:SG	2:SK:86:LEU:HD11	2.48	0.54
2:TA:337:THR:HG21	61:3w:161:GLN:HB2	1.90	0.54
1:TB:208:TYR:CE2	1:TB:225:LEU:HD21	2.43	0.54
2:TC:390:ARG:O	2:TC:394:LYS:HG2	2.07	0.54
1:TH:8:GLN:HE22	1:TH:63:ALA:HB1	1.72	0.54
1:TL:104:GLY:O	1:TL:147:MET:HB3	2.07	0.54
1:TL:332:ASN:ND2	61:3x:131:SER:OG	2.39	0.54
1:U:236:VAL:HG13	1:U:237:THR:HG23	1.90	0.54
1:U:331:LEU:HB2	2:UA:177:VAL:HG12	1.89	0.54
2:UK:320:ARG:HH21	2:UK:360:PRO:HA	1.71	0.54
1:UL:311:LEU:O	1:UL:348:ASN:ND2	2.40	0.54
2:VA:142:GLY:HA2	2:VA:183:GLU:HG3	1.90	0.54
1:VB:232:VAL:HG22	1:VB:268:MET:HE2	1.90	0.54
2:VC:225:THR:O	2:VC:229:ARG:HG3	2.07	0.54
1:VD:263:LEU:HD21	1:VD:421:GLU:HG3	1.90	0.54
1:VF:67:ASP:O	1:VF:92:PHE:HA	2.08	0.54
2:VI:286:LEU:O	2:VI:373:ARG:NH1	2.39	0.54
2:VM:175:PRO:HB3	2:VM:390:ARG:CZ	2.38	0.54
1:WB:217:LEU:HB2	1:WB:220:PRO:HG3	1.89	0.54
2:WC:253:THR:HA	2:WC:256:GLN:HG3	1.90	0.54
1:WH:253:LEU:HD11	1:WH:316:LEU:HD11	1.89	0.54
2:WM:387:VAL:HG23	2:WM:390:ARG:NH2	2.23	0.54
7:0D:353:TYR:HE2	17:0n:58:GLN:HA	1.73	0.54
9:0M:566:VAL:HG21	9:0M:607:ILE:HG21	1.89	0.54
9:0N:35:LEU:HD11	9:0N:298:TYR:HE2	1.71	0.54
9:0N:220:SER:C	9:0N:242:LYS:HZ1	2.15	0.54
9:0O:66:CYS:HB3	9:0O:114:LEU:HD23	1.90	0.54
10:0S:410:ARG:HG2	10:0S:413:ARG:HH21	1.71	0.54
12:0W:29:LEU:HD21	12:0W:77:ILE:HD11	1.89	0.54
14:0d:347:ASP:OD1	21:0w:53:ARG:NH1	2.40	0.54
16:0k:307:MET:HE3	16:0k:307:MET:HA	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:0m:100:ARG:HH11	17:0m:104:LYS:HZ1	1.56	0.54
24:1K:345:ILE:HG13	24:1K:361:TYR:CZ	2.42	0.54
24:1K:451:ASP:O	24:1K:476:LYS:NZ	2.34	0.54
25:1O:162:VAL:HB	25:1O:173:LEU:HD12	1.90	0.54
41:2c:307:GLU:HG3	41:2c:311:GLN:NE2	2.22	0.54
28:4W:20:CYS:C	28:4W:23:CYS:H	2.15	0.54
65:5G:237:ARG:O	65:5G:241:THR:HG23	2.07	0.54
1:A:326:VAL:HG11	1:A:353:ILE:HD11	1.89	0.54
1:A:350:LYS:HD2	1:A:351:SER:N	2.22	0.54
1:AD:252:LYS:HD2	2:AE:101:ASN:HB2	1.90	0.54
2:AE:288:VAL:HB	2:AE:327:ASP:HB3	1.89	0.54
1:AH:139:LEU:HA	1:AH:145:SER:HB3	1.90	0.54
2:AI:402:ARG:HB2	5:XP:308:PRO:HB2	1.88	0.54
1:BF:267:MET:N	1:BF:369:GLY:O	2.41	0.54
1:BF:327:ASP:OD2	2:BG:177:VAL:HG13	2.06	0.54
1:BH:330:MET:HA	1:BH:333:VAL:HG12	1.90	0.54
2:BI:133:GLN:HB2	2:BI:252:LEU:HD12	1.89	0.54
2:CD:352:LYS:HD2	1:CE:177:ASP:O	2.07	0.54
2:DD:209:ILE:HG21	2:DD:227:VAL:HG22	1.90	0.54
2:DD:261:PRO:HG3	2:DD:313:MET:HE2	1.89	0.54
1:DE:324:LYS:NZ	2:DF:210:TYR:HB3	2.23	0.54
2:DH:169:TYR:CE2	2:DH:235:VAL:HG22	2.43	0.54
1:DI:248:SER:HB2	1:DI:252:LYS:HG2	1.90	0.54
2:DL:271:SER:HB2	2:DL:377:MET:HG2	1.89	0.54
1:DM:170:ILE:HD11	1:DM:201:CYS:HB3	1.88	0.54
1:EJ:63:ALA:O	1:EJ:89:ASN:ND2	2.40	0.54
2:FA:93:VAL:HG21	2:FA:117:LEU:HD22	1.90	0.54
1:FD:318:ARG:HD3	1:FD:358:PRO:HD3	1.90	0.54
2:FE:122:ILE:HD13	2:FE:157:LEU:HD21	1.90	0.54
1:FH:256:ASN:ND2	2:FI:101:ASN:OD1	2.40	0.54
2:FI:244:PHE:O	2:FI:356:ASN:ND2	2.41	0.54
2:FK:332:ILE:O	2:FK:336:LYS:HG2	2.08	0.54
1:FL:359:LYS:HE2	28:4W:215:ARG:NH1	2.23	0.54
1:G:183:TYR:HA	1:G:385:PHE:HE1	1.72	0.54
1:GB:347:ASN:HD22	2:GC:178:SER:HB3	1.73	0.54
1:GD:139:LEU:HG	1:GD:168:SER:HB2	1.89	0.54
1:GF:198:GLU:HB2	1:GF:266:PHE:HE2	1.73	0.54
1:GF:209:ASP:HA	1:GF:212:PHE:HD2	1.72	0.54
1:GF:245:GLN:O	2:GG:11:GLN:NE2	2.41	0.54
1:H:235:GLY:HA3	1:H:366:THR:HG21	1.90	0.54
2:HC:287:SER:O	2:HC:291:ILE:HG23	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HG:1:MET:N	2:HG:3:GLU:OE2	2.40	0.54
2:IA:22:GLU:OE2	2:IA:229:ARG:NH1	2.41	0.54
1:IB:185:THR:O	1:IB:189:VAL:HG13	2.07	0.54
2:IC:251:ASP:HB3	2:IC:254:GLU:HG2	1.90	0.54
2:IE:150:GLY:O	2:IE:154:LEU:HD23	2.08	0.54
1:IH:256:ASN:HD21	2:II:101:ASN:HD22	1.55	0.54
1:IL:68:LEU:HD12	1:IL:97:ALA:HB2	1.90	0.54
1:IL:375:GLN:NE2	1:IL:423:GLN:HB3	2.23	0.54
2:J:285:GLN:HE22	2:J:287:SER:HB2	1.71	0.54
2:J:414:GLU:CD	2:J:416:GLY:H	2.16	0.54
1:JE:170:ILE:HD11	1:JE:301:GLN:HE21	1.72	0.54
2:JF:67:PHE:HB2	2:JF:92:LEU:HD12	1.90	0.54
2:JF:298:PRO:HB3	2:JF:307:PRO:HD2	1.90	0.54
1:JG:163:ILE:HG21	1:JG:250:LEU:HB3	1.90	0.54
1:JK:347:ASN:ND2	2:JL:178:SER:O	2.34	0.54
2:JN:129:CYS:SG	2:JN:132:LEU:HB2	2.47	0.54
2:KF:53:PHE:HB3	2:KF:61:HIS:HB3	1.89	0.54
2:KH:237:SER:HA	2:KH:320:ARG:HD2	1.90	0.54
1:KI:2:ARG:HH21	2:KJ:72:PRO:HG3	1.73	0.54
2:KJ:208:ALA:HB2	2:KJ:304:LYS:HG3	1.90	0.54
1:KM:51:PHE:O	1:KM:62:ARG:NH2	2.40	0.54
1:KM:257:LEU:HD21	1:KM:314:SER:HB3	1.89	0.54
1:KM:313:ALA:HB3	1:KM:349:ILE:HG12	1.90	0.54
1:LA:69:GLU:HG2	1:LA:71:GLY:H	1.71	0.54
2:LD:32:PRO:HG3	29:1k:199:ARG:HH21	1.72	0.54
1:LE:207:LEU:HB3	1:LE:225:LEU:HD22	1.89	0.54
1:LE:209:ASP:OD2	15:0f:269:ARG:HB3	2.08	0.54
1:LE:313:ALA:HB3	1:LE:349:ILE:HG12	1.89	0.54
2:LH:30:ILE:HG13	2:LH:36:MET:HB3	1.89	0.54
2:LJ:79:ARG:HH22	2:LJ:94:SER:HB2	1.73	0.54
1:LM:22:GLU:HG2	1:LM:81:TYR:CD1	2.43	0.54
1:LM:311:LEU:HD23	1:LM:342:ILE:HD12	1.89	0.54
2:LN:253:THR:HA	2:LN:256:GLN:HG3	1.90	0.54
1:M:173:PRO:HD2	1:M:380:ARG:HH22	1.72	0.54
1:M:289:LEU:HD11	1:M:363:MET:HG3	1.90	0.54
2:MC:267:PHE:HD1	2:MC:432:TYR:HH	1.55	0.54
2:ME:184:PRO:HA	2:ME:391:ILE:HD11	1.88	0.54
1:MF:197:ASP:OD2	1:MF:198:GLU:N	2.41	0.54
1:MJ:420:SER:OG	33:2H:129:ARG:HD3	2.07	0.54
1:MN:344:TRP:HB3	1:MN:430:VAL:HG12	1.89	0.54
1:ND:267:MET:C	1:ND:268:MET:HE2	2.33	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ND:267:MET:HE1	1:ND:373:CYS:SG	2.47	0.54
1:NJ:159:TYR:HB3	1:NJ:162:ARG:HG2	1.89	0.54
1:NJ:221:THR:HG23	1:NJ:223:GLY:H	1.72	0.54
1:NL:229:VAL:HG12	1:NL:233:MET:HE3	1.89	0.54
1:OB:161:ASP:OD1	1:OB:162:ARG:NE	2.41	0.54
2:OI:295:VAL:HG12	2:OI:377:MET:HE3	1.89	0.54
2:OM:3:GLU:HG3	2:OM:64:ARG:NH1	2.22	0.54
1:PD:165:MET:HE1	1:PD:198:GLU:OE2	2.08	0.54
1:PD:299:MET:HE2	1:PD:301:GLN:HG2	1.90	0.54
1:PJ:238:CYS:HB2	1:PJ:318:ARG:HD3	1.89	0.54
2:PM:301:MET:HE1	2:PM:307:PRO:HG3	1.89	0.54
2:PM:365:GLY:HA3	41:2l:265:THR:HG21	1.90	0.54
2:Q:346:TRP:HZ2	2:Q:435:VAL:HB	1.73	0.54
1:QA:62:ARG:NH1	1:QA:127:CYS:SG	2.80	0.54
1:QA:107:THR:HG23	1:QA:108:GLU:HG2	1.90	0.54
1:QA:129:CYS:SG	2:QB:96:LYS:HE3	2.47	0.54
2:QB:295:VAL:HG21	2:QB:375:VAL:HG13	1.89	0.54
2:RB:297:GLU:OE2	2:RB:338:LYS:NZ	2.41	0.54
1:RC:323:THR:HG21	2:RD:224:TYR:CE1	2.43	0.54
2:RD:247:ALA:O	1:RE:11:GLN:NE2	2.40	0.54
2:RF:206:ASN:OD1	71:RF:501:GTP:N2	2.41	0.54
1:RG:215:LEU:HD11	1:RG:228:LEU:HD21	1.89	0.54
1:S:117:LEU:HA	1:S:120:CYS:SG	2.48	0.54
1:S:385:PHE:HE2	1:S:412:GLU:HB3	1.72	0.54
1:SD:229:VAL:HA	1:SD:232:VAL:HG12	1.89	0.54
1:SH:8:GLN:HE21	1:SH:17:GLY:HA3	1.72	0.54
2:TC:395:PHE:HZ	2:TC:418:PHE:HB3	1.71	0.54
2:TG:338:LYS:HD3	61:3x:14:ARG:HD3	1.90	0.54
2:TI:2:ARG:HA	2:TI:133:GLN:HE22	1.73	0.54
2:TK:326:LYS:HG3	2:TK:327:ASP:N	2.21	0.54
1:TL:211:CYS:HB3	1:TL:220:PRO:HG3	1.90	0.54
1:U:207:LEU:HD13	1:U:225:LEU:HB3	1.88	0.54
2:UA:217:LEU:HD21	2:UA:368:LEU:HD23	1.90	0.54
1:UH:99:ASN:HD21	1:UH:178:THR:HG23	1.73	0.54
1:UH:344:TRP:HZ3	2:UI:403:ALA:HB2	1.73	0.54
2:VA:50:ASN:O	2:VA:64:ARG:NH1	2.41	0.54
1:VD:272:PRO:HD3	1:VD:364:SER:HA	1.88	0.54
1:VF:175:VAL:HG11	1:VF:204:ASN:HB2	1.89	0.54
2:WC:98:ASP:OD1	2:WC:99:ALA:N	2.41	0.54
2:WE:213:THR:HG22	2:WE:219:ILE:HB	1.90	0.54
1:WH:375:GLN:OE1	1:WH:379:ARG:NH2	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:XD:4:ASN:OD1	4:XQ:32:GLY:CA	2.51	0.54
3:XD:50:MET:HE3	3:XD:50:MET:HA	1.89	0.54
5:XN:130:THR:HG21	5:XN:174:GLY:HA2	1.89	0.54
5:XP:176:ARG:HG2	5:XP:215:ALA:HA	1.88	0.54
8:0I:193:ARG:NH1	8:0I:197:MET:HE3	2.23	0.54
9:0M:547:GLY:HA2	9:0M:577:TRP:CH2	2.43	0.54
9:0M:563:ARG:NH2	9:0M:626:ILE:O	2.41	0.54
16:0l:830:SER:HB2	16:0l:838:ASP:HB3	1.89	0.54
16:0l:900:ILE:HG12	16:0l:940:VAL:HG21	1.89	0.54
21:0x:524:VAL:HG22	21:0x:528:LYS:NZ	2.23	0.54
23:1E:371:ALA:HA	23:1E:374:LYS:HE3	1.88	0.54
24:1J:13:PHE:CE2	44:2w:124:GLN:HG2	2.43	0.54
26:1Q:494:ARG:NH1	26:1Q:499:ASP:OD2	2.41	0.54
27:1S:19:LYS:HB2	27:1S:23:ARG:HH21	1.73	0.54
29:1k:166:VAL:HG12	29:1k:168:ASP:H	1.73	0.54
41:2b:182:GLU:OE2	41:2b:186:ARG:NH2	2.41	0.54
43:2t:165:LYS:HE2	43:2t:321:ARG:HH12	1.72	0.54
44:2v:318:GLN:HE22	44:2v:407:ASN:H	1.54	0.54
49:3P:548:GLN:HE22	49:3P:549:ARG:NH2	2.06	0.54
28:4V:252:ILE:O	28:4W:18:CYS:HA	2.08	0.54
1:AD:178:THR:HB	1:AD:181:GLU:HG3	1.89	0.54
2:AM:376:CYS:SG	2:AM:377:MET:N	2.81	0.54
2:BA:192:HIS:ND1	2:BA:424:ASP:OD2	2.33	0.54
1:BB:257:LEU:HB3	1:BB:266:PHE:CE1	2.43	0.54
2:BC:90:GLU:O	2:BC:91:GLN:HG2	2.08	0.54
2:BK:50:ASN:ND2	24:1J:235:MET:SD	2.80	0.54
2:BK:79:ARG:O	2:BK:84:ARG:HB3	2.08	0.54
2:CD:88:ASN:HB2	2:CD:91:GLN:HE21	1.73	0.54
2:CH:170:THR:HG21	2:CH:194:LEU:HD21	1.90	0.54
2:CJ:69:ASP:OD2	2:CJ:70:LEU:N	2.41	0.54
2:CJ:213:THR:HA	2:CJ:217:LEU:HD23	1.89	0.54
1:CK:258:VAL:HB	2:CL:407:TRP:HE1	1.73	0.54
1:CM:26:ASP:OD2	24:1K:325:GLY:HA3	2.08	0.54
1:CM:53:GLU:HA	1:CM:59:TYR:HA	1.90	0.54
1:CM:364:SER:OG	1:CM:365:VAL:N	2.41	0.54
1:CM:423:GLN:NE2	1:CM:427:ASP:OD2	2.41	0.54
1:DG:313:ALA:HB1	1:DG:367:PHE:HE1	1.71	0.54
1:F:330:MET:HA	1:F:330:MET:HE3	1.89	0.54
1:F:389:PHE:HZ	1:F:405:GLU:HB2	1.71	0.54
1:FJ:293:MET:SD	1:FJ:367:PHE:HB2	2.48	0.54
1:G:340:TYR:HD2	59:4O:88:PHE:HD1	1.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GF:148:GLY:O	1:GF:152:ILE:HD12	2.07	0.54
1:GF:268:MET:HE1	1:GF:368:ILE:HA	1.90	0.54
2:HA:402:ARG:HB3	2:HA:405:VAL:HG21	1.90	0.54
1:HH:213:ARG:NH1	1:HH:297:LYS:HB2	2.23	0.54
1:HH:249:ASP:H	1:HH:252:LYS:HB3	1.71	0.54
1:HH:324:LYS:HZ1	2:HI:222:PRO:HB2	1.73	0.54
1:HJ:58:ARG:NE	1:IJ:280:GLN:OE1	2.41	0.54
2:HK:22:GLU:OE2	2:HK:229:ARG:NH1	2.41	0.54
2:HK:326:LYS:HE2	1:HL:220:PRO:HD2	1.90	0.54
1:HL:253:LEU:O	1:HL:257:LEU:HB2	2.08	0.54
1:HL:339:SER:OG	64:5D:91:LYS:HD2	2.08	0.54
2:HM:384:ILE:O	2:HM:387:VAL:HG12	2.07	0.54
1:I:172:SER:HB2	1:I:380:ARG:NH2	2.23	0.54
2:IA:271:SER:OG	2:IA:377:MET:HB3	2.07	0.54
2:IA:298:PRO:HA	2:IA:301:MET:HE1	1.90	0.54
1:ID:204:ASN:OD1	69:ID:500:GDP:O2'	2.26	0.54
2:IE:147:SER:HB2	2:IE:190:SER:HB3	1.88	0.54
2:IG:269:LEU:HD13	2:IG:301:MET:HE1	1.88	0.54
1:IH:316:LEU:HD23	1:IH:352:SER:HB2	1.89	0.54
2:J:288:VAL:HG21	2:J:327:ASP:HB3	1.89	0.54
2:JF:406:HIS:HA	2:JF:409:VAL:HG22	1.90	0.54
2:KF:251:ASP:H	2:KF:254:GLU:HB3	1.73	0.54
2:KJ:426:ALA:O	2:KJ:429:GLU:HG2	2.07	0.54
1:KK:174:ARG:NH2	18:0p:226:GLU:OE1	2.41	0.54
2:KN:396:ASP:OD2	2:KN:422:ARG:NH2	2.41	0.54
1:LA:113:ILE:HA	1:LA:116:VAL:HB	1.89	0.54
2:LD:67:PHE:HB2	2:LD:92:LEU:HD12	1.90	0.54
1:LI:4:ILE:HA	1:LI:132:GLY:O	2.08	0.54
2:LL:295:VAL:HG21	2:LL:375:VAL:HG13	1.89	0.54
1:LM:326:VAL:HG11	1:LM:353:ILE:HD11	1.89	0.54
1:LO:37:GLN:HB2	29:1m:174:ASN:HB3	1.88	0.54
1:M:388:MET:HB3	1:M:393:ALA:HB3	1.90	0.54
2:MA:259:LEU:HD21	2:MA:378:ILE:HG12	1.90	0.54
1:MD:178:THR:HB	1:MD:181:GLU:HG3	1.90	0.54
1:MD:257:LEU:HD11	1:MD:314:SER:HB2	1.90	0.54
1:MD:378:PHE:HB3	1:MD:415:MET:HE2	1.90	0.54
1:MJ:10:GLY:O	1:MJ:14:ASN:ND2	2.40	0.54
1:MJ:166:THR:HG21	1:MJ:192:LEU:HD12	1.89	0.54
2:MM:324:VAL:HG22	2:MM:326:LYS:H	1.71	0.54
1:ND:392:LYS:HD2	1:ND:395:LEU:HD23	1.90	0.54
2:NE:186:ASN:OD1	2:NE:408:TYR:OH	2.25	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NF:73:MET:HE3	1:NF:92:PHE:HB3	1.90	0.54
1:NF:207:LEU:HB3	1:NF:225:LEU:HD22	1.90	0.54
1:NH:257:LEU:HB3	1:NH:266:PHE:HE1	1.72	0.54
2:NI:225:THR:HG22	2:NI:229:ARG:HH21	1.72	0.54
2:OC:79:ARG:O	2:OC:84:ARG:HG2	2.08	0.54
2:OG:270:THR:HG23	2:OG:302:LEU:HB2	1.90	0.54
2:OK:3:GLU:CD	2:OK:64:ARG:HH12	2.16	0.54
2:OK:133:GLN:O	2:OK:165:SER:HB2	2.08	0.54
1:OL:256:ASN:HD21	2:OM:101:ASN:HD22	1.54	0.54
1:PB:320:ARG:HG2	22:1w:241:ARG:HH22	1.71	0.54
1:PB:324:LYS:HZ1	2:PC:222:PRO:CD	2.21	0.54
2:PE:9:ILE:HG22	2:PE:146:GLY:HA2	1.90	0.54
1:PF:41:ASP:OD1	31:1r:239:LYS:HD3	2.08	0.54
2:PG:271:SER:HB3	2:PG:301:MET:SD	2.48	0.54
1:QA:392:LYS:HB2	1:QA:395:LEU:HD22	1.90	0.54
1:QC:173:PRO:HG3	1:QC:380:ARG:HD2	1.89	0.54
1:QC:273:LEU:HB2	1:QC:298:ASN:HD21	1.73	0.54
2:QD:271:SER:HB2	2:QD:301:MET:HA	1.88	0.54
1:QE:284:LEU:HD13	1:QE:362:LYS:HG2	1.89	0.54
2:QF:308:ARG:NH2	59:4a:256:GLU:O	2.40	0.54
1:QI:117:LEU:HD11	1:QI:154:LYS:HB3	1.89	0.54
1:QI:236:VAL:HA	1:QI:316:LEU:HD22	1.88	0.54
2:QL:3:GLU:HG2	2:QL:132:LEU:HA	1.90	0.54
1:RG:323:THR:HG1	2:RH:210:TYR:HH	1.51	0.54
1:RK:35:THR:HG23	1:RK:37:GLN:HE22	1.72	0.54
1:TB:251:ARG:NH2	2:TC:98:ASP:O	2.41	0.54
1:TH:324:LYS:HD3	2:TI:222:PRO:HD2	1.90	0.54
2:TI:399:TYR:OH	2:TI:415:GLU:OE2	2.23	0.54
2:TK:262:TYR:HE1	1:TL:393:ALA:HA	1.72	0.54
1:TL:378:PHE:HD1	1:TL:415:MET:HE1	1.73	0.54
1:UD:118:ASP:O	1:UD:122:LYS:HG3	2.08	0.54
2:UI:368:LEU:O	8:0J:364:GLN:NE2	2.40	0.54
2:UK:280:LYS:NZ	2:UK:284:GLU:OE2	2.40	0.54
2:VC:217:LEU:HD21	2:VC:275:VAL:HG22	1.88	0.54
1:VF:67:ASP:OD1	1:VF:69:GLU:N	2.35	0.54
2:VG:64:ARG:NH1	2:VG:129:CYS:SG	2.81	0.54
1:VH:334:GLN:NE2	1:VH:348:ASN:OD1	2.36	0.54
1:VL:3:GLU:O	1:VL:131:GLN:N	2.41	0.54
2:VM:392:ASP:HB2	2:VM:422:ARG:NH1	2.22	0.54
1:WF:78:ALA:HB1	9:0M:198:MET:HA	1.89	0.54
1:WH:129:CYS:SG	2:WI:96:LYS:HG3	2.47	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:XA:34:VAL:HA	3:XA:48:GLU:O	2.07	0.54
3:XC:178:PRO:C	3:XC:182:LYS:HZ3	2.15	0.54
4:XO:132:LEU:HB3	4:XO:134:ILE:HG12	1.90	0.54
6:0A:162:SER:H	33:2I:286:PRO:CD	2.20	0.54
6:0A:235:VAL:HA	6:0A:238:THR:HG22	1.89	0.54
7:0D:334:HIS:CD2	38:2V:178:ASN:HD22	2.26	0.54
9:0L:566:VAL:HG22	9:0L:576:VAL:HG22	1.90	0.54
12:0W:229:LEU:HD11	12:0W:235:PRO:HD3	1.90	0.54
21:0w:374:SER:O	21:0w:378:GLN:HG2	2.08	0.54
24:1J:255:LEU:HB2	24:1J:278:TYR:HB3	1.89	0.54
25:1O:158:SER:HB3	25:1O:160:ARG:HH21	1.73	0.54
25:1O:515:LYS:HB3	25:1O:525:PHE:CE1	2.43	0.54
26:1Q:457:VAL:HG11	26:1Q:500:TYR:HE2	1.72	0.54
28:1b:4:LEU:CB	41:2h:358:ARG:NH1	2.58	0.54
32:2B:56:ASP:O	32:2B:60:LYS:HG2	2.07	0.54
33:2I:284:ARG:HG2	33:2I:285:LYS:H	1.73	0.54
35:2O:28:HIS:ND1	39:2X:165:ARG:NH1	2.56	0.54
41:2f:471:LEU:O	41:2f:475:ILE:HG12	2.07	0.54
41:2i:424:GLU:HG3	41:2i:428:LYS:HE2	1.90	0.54
45:2z:48:TYR:HB3	45:2z:51:ALA:HB3	1.89	0.54
48:3L:428:THR:OG1	48:3L:431:GLN:HG3	2.07	0.54
49:3P:345:ARG:HG2	49:3P:386:GLN:HE22	1.73	0.54
49:3P:450:LEU:HA	49:3P:531:THR:HG23	1.89	0.54
56:3d:116:PRO:O	56:3d:119:THR:OG1	2.25	0.54
66:5L:34:PRO:HD3	66:5L:226:THR:HG22	1.89	0.54
1:A:2:ARG:NH1	2:AA:72:PRO:HD2	2.22	0.54
2:AC:264:ARG:HH21	2:AC:428:LEU:HB2	1.73	0.54
1:AD:262:ARG:NH2	5:XN:305:TYR:O	2.41	0.54
1:AD:324:LYS:CG	2:AE:222:PRO:HD2	2.38	0.54
1:AJ:359:LYS:HG2	54:3a:135:HIS:NE2	2.23	0.54
1:AL:60:VAL:HG21	1:AL:86:ARG:HH11	1.73	0.54
1:AL:181:GLU:HB2	1:AL:182:PRO:HD3	1.90	0.54
1:B:232:VAL:HG13	1:B:268:MET:HE2	1.90	0.54
1:BH:209:ASP:OD1	1:BH:213:ARG:NH1	2.40	0.54
1:BN:290:THR:HA	1:BN:293:MET:HG2	1.90	0.54
1:CE:22:GLU:HG2	1:CE:81:TYR:CD1	2.43	0.54
1:CE:200:MET:HG2	1:CE:266:PHE:HB2	1.89	0.54
1:CG:326:VAL:HG11	1:CG:353:ILE:HD11	1.90	0.54
2:CJ:11:GLN:N	71:CJ:501:GTP:O2B	2.41	0.54
2:CJ:274:PRO:HG2	2:CJ:371:VAL:HG21	1.90	0.54
2:CL:44:VAL:HA	24:1K:277:TYR:CE2	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:195:LEU:HD13	2:D:267:PHE:HE2	1.73	0.54
1:DA:3:GLU:HB2	1:DA:127:CYS:SG	2.47	0.54
2:DB:187:CYS:O	2:DB:191:THR:HG23	2.08	0.54
1:DG:253:LEU:HD12	1:DG:368:ILE:HD11	1.89	0.54
1:E:51:PHE:HB3	1:E:59:TYR:HB3	1.90	0.54
2:EC:184:PRO:HG3	2:EC:394:LYS:HD2	1.91	0.54
1:ED:322:SER:OG	1:ED:325:GLU:OE1	2.19	0.54
1:EF:1:MET:HE2	2:EG:72:PRO:HG3	1.90	0.54
1:EH:344:TRP:CE2	2:EI:401:LYS:HD2	2.43	0.54
1:EJ:311:LEU:HB2	1:EJ:370:ASN:HB3	1.90	0.54
1:FD:178:THR:HG23	1:FD:181:GLU:HG3	1.90	0.54
2:FE:254:GLU:OE2	1:FF:99:ASN:HB2	2.08	0.54
1:FH:165:MET:HE1	1:FH:250:LEU:HD22	1.90	0.54
1:FH:299:MET:HE1	1:FH:367:PHE:HD2	1.73	0.54
1:GB:184:ASN:OD1	1:GB:398:TYR:OH	2.22	0.54
1:HD:239:CYS:HB3	1:HD:248:SER:H	1.73	0.54
2:HE:298:PRO:HD2	2:HE:299:ALA:H	1.73	0.54
1:HF:67:ASP:OD1	1:HF:68:LEU:N	2.41	0.54
1:HH:91:ILE:HD11	1:HH:119:VAL:HG21	1.89	0.54
2:HI:364:PRO:HG3	17:0n:207:LEU:HD21	1.89	0.54
2:HK:326:LYS:HZ1	1:HL:219:THR:C	2.16	0.54
2:HM:3:GLU:OE2	2:HM:131:GLY:N	2.40	0.54
2:IC:285:GLN:HG2	7:0D:23:ILE:HG23	1.90	0.54
2:IC:313:MET:H	2:IC:381:SER:HA	1.73	0.54
1:ID:149:THR:HA	1:ID:152:ILE:HG22	1.90	0.54
1:IF:320:ARG:NH1	47:3D:77:GLU:OE1	2.41	0.54
1:IJ:53:GLU:HA	1:IJ:59:TYR:HA	1.89	0.54
2:IK:64:ARG:HH21	2:IK:129:CYS:HB3	1.71	0.54
2:IK:99:ALA:HA	2:IK:105:ARG:HD3	1.90	0.54
1:IL:245:GLN:HE21	2:IM:224:TYR:HB2	1.72	0.54
2:IM:27:GLU:O	38:2V:162:ARG:NH1	2.41	0.54
2:J:172:TYR:CD2	2:J:203:MET:HG3	2.43	0.54
1:JC:316:LEU:HD23	1:JC:352:SER:HB2	1.90	0.54
1:JC:406:MET:SD	1:NB:306:ARG:NE	2.76	0.54
1:JG:6:SER:O	1:JG:63:ALA:HA	2.07	0.54
1:JI:247:ASN:N	2:JJ:11:GLN:HE22	2.05	0.54
2:JN:248:LEU:H	2:JN:355:ILE:HB	1.73	0.54
1:KC:125:GLU:OE1	35:2N:187:THR:N	2.39	0.54
2:LB:248:LEU:HB2	2:LB:355:ILE:H	1.73	0.54
2:LN:51:THR:HG21	2:LN:243:ARG:HG2	1.90	0.54
2:LN:326:LYS:HA	2:LN:326:LYS:HE2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ME:336:LYS:HZ1	1:MF:174:ARG:HA	1.73	0.54
2:MG:309:HIS:HE1	13:0Z:59:GLY:HA3	1.73	0.54
1:MJ:416:ASN:HD21	33:2H:129:ARG:HG2	1.73	0.54
1:ML:62:ARG:NH1	1:ML:127:CYS:SG	2.81	0.54
1:MN:210:ILE:O	1:MN:214:THR:OG1	2.20	0.54
1:N:58:ARG:NE	1:O:280:GLN:OE1	2.41	0.54
1:ND:311:LEU:HD23	1:ND:342:ILE:HG21	1.90	0.54
2:NE:251:ASP:HB2	2:NE:254:GLU:HG2	1.90	0.54
1:NL:167:PHE:CG	1:NL:233:MET:HE1	2.43	0.54
1:NL:290:THR:HG21	1:NL:329:GLN:HB3	1.89	0.54
2:NM:89:PRO:HD2	2:OM:283:HIS:CE1	2.43	0.54
1:O:232:VAL:HG13	1:O:366:THR:OG1	2.07	0.54
1:O:256:ASN:OD1	1:O:350:LYS:NZ	2.40	0.54
2:OA:142:GLY:HA3	2:OA:183:GLU:HG3	1.90	0.54
1:OH:245:GLN:HB3	2:OI:224:TYR:HD1	1.73	0.54
1:OH:356:ILE:HD12	28:1h:74:PHE:HA	1.90	0.54
1:OJ:311:LEU:O	1:OJ:348:ASN:ND2	2.41	0.54
2:OM:71:GLU:HG3	2:OM:73:THR:H	1.72	0.54
1:PF:62:ARG:HG2	1:PF:123:GLU:OE2	2.08	0.54
2:PI:185:TYR:HE1	2:PI:398:MET:HB2	1.73	0.54
1:PJ:130:LEU:O	1:PJ:162:ARG:NH1	2.41	0.54
1:QE:185:THR:O	1:QE:189:VAL:HG23	2.08	0.54
2:QF:243:ARG:HH21	2:QF:244:PHE:HE2	1.56	0.54
2:QH:186:ASN:OD1	2:QH:408:TYR:OH	2.25	0.54
2:QJ:326:LYS:CE	1:QK:225:LEU:HD21	2.37	0.54
2:RB:316:CYS:HB3	2:RB:378:ILE:HG23	1.89	0.54
1:RE:272:PRO:HD3	1:RE:364:SER:HA	1.90	0.54
2:RF:167:LEU:HD13	2:RF:200:VAL:HB	1.90	0.54
1:RG:33:THR:O	1:RG:58:ARG:NH1	2.41	0.54
1:RG:152:ILE:HG22	1:RG:195:ASN:HB3	1.90	0.54
2:RH:264:ARG:HD3	57:3g:115:GLU:OE1	2.07	0.54
2:RH:324:VAL:HG22	2:RH:325:PRO:HD2	1.90	0.54
1:S:328:GLU:OE1	1:S:332:ASN:ND2	2.40	0.54
1:SD:97:ALA:HB2	1:SD:143:THR:HB	1.89	0.54
2:SK:123:ARG:CZ	61:3x:109:GLU:CG	2.85	0.54
2:TA:318:MET:HA	2:TA:318:MET:HE3	1.90	0.54
1:TB:55:SER:HB3	1:UB:283:GLY:HA2	1.90	0.54
1:TD:2:ARG:HH11	2:TE:72:PRO:HD2	1.73	0.54
1:TD:284:LEU:HD23	1:TD:362:LYS:HE2	1.90	0.54
2:TK:220:GLU:C	2:TK:221:ARG:HD3	2.33	0.54
1:TL:86:ARG:HB2	1:TL:89:ASN:OD1	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UF:357:PRO:O	34:2L:136:ARG:NH2	2.41	0.54
1:UJ:122:LYS:NZ	1:VJ:291:GLN:HB3	2.22	0.54
1:UJ:164:MET:H	1:UJ:197:ASP:HB2	1.73	0.54
2:UK:439:SER:HB3	1:UL:391:ARG:HH21	1.73	0.54
1:UL:282:ARG:HH21	1:UL:288:GLU:HB3	1.73	0.54
1:V:66:MET:SD	1:V:147:MET:HE3	2.48	0.54
1:VF:165:MET:HE3	1:VF:166:THR:H	1.73	0.54
1:VF:331:LEU:HD11	2:VG:176:GLN:HB3	1.89	0.54
2:VG:118:ALA:O	2:VG:122:ILE:HG12	2.08	0.54
2:VI:406:HIS:HA	2:VI:409:VAL:HG22	1.90	0.54
1:W:172:SER:HB3	1:W:205:GLU:CD	2.33	0.54
2:WG:277:SER:OG	2:WG:280:LYS:NZ	2.41	0.54
1:WH:5:VAL:HG12	1:WH:130:LEU:HD11	1.90	0.54
5:XP:82:ILE:HG22	5:XP:84:HIS:H	1.73	0.54
9:0L:39:LEU:HD11	9:0L:615:ALA:HB2	1.90	0.54
9:0L:328:GLN:N	9:0L:343:CYS:O	2.41	0.54
9:0N:480:GLU:OE2	9:0N:501:ARG:NH2	2.41	0.54
14:0d:75:ASN:CG	14:0d:78:PHE:HB2	2.33	0.54
16:0l:434:CYS:O	16:0l:475:VAL:N	2.40	0.54
16:0k:170:PHE:CZ	16:0k:174:LEU:HD21	2.43	0.54
17:0n:74:TYR:CD2	17:0o:400:ILE:HD13	2.42	0.54
19:0r:179:ALA:HA	19:0r:182:ARG:HH11	1.73	0.54
20:0u:73:ASN:ND2	20:0u:226:SER:OG	2.42	0.54
20:0u:226:SER:HB3	20:0u:241:LEU:HD12	1.88	0.54
24:1J:282:ASP:O	24:1J:308:ARG:NH1	2.41	0.54
25:1O:286:LEU:HD13	25:1O:297:LEU:HD21	1.89	0.54
26:1Q:428:PHE:CE2	26:1Q:502:LEU:HB3	2.42	0.54
26:1Q:449:TYR:HB2	26:1Q:454:THR:HG22	1.90	0.54
26:1Q:528:GLN:HG2	26:1Q:587:ARG:NH1	2.23	0.54
26:1Q:585:MET:HA	26:1Q:588:VAL:HG12	1.90	0.54
27:1T:627:TYR:CE1	27:1T:631:ARG:HG3	2.43	0.54
22:1w:191:GLN:HA	22:1w:194:MET:HE2	1.90	0.54
41:2h:241:ALA:HB1	41:2h:245:ARG:HH12	1.72	0.54
47:3D:233:THR:OG1	47:3D:243:GLU:OE2	2.19	0.54
55:3b:178:ASN:HD22	61:3w:208:PRO:HB3	1.72	0.54
58:3m:158:ILE:HD13	61:3w:252:PRO:HB2	1.89	0.54
62:4B:271:GLU:HB3	62:4B:272:PRO:HD3	1.89	0.54
66:5L:44:ARG:HG2	66:5L:62:THR:HG21	1.88	0.54
1:AD:46:ARG:NH2	2:AE:76:ASP:OD2	2.41	0.53
1:AD:268:MET:HE1	1:AD:368:ILE:HG23	1.90	0.53
1:AH:91:ILE:HD12	1:AH:116:VAL:HG22	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:257:LEU:HD11	1:AN:314:SER:HB3	1.90	0.53
1:BB:21:TRP:CZ3	1:BB:50:TYR:HB3	2.43	0.53
1:BF:324:LYS:HD3	2:BG:210:TYR:CD1	2.43	0.53
2:BI:89:PRO:HB2	2:CH:280:LYS:NZ	2.24	0.53
2:BK:1:MET:N	2:BK:50:ASN:OD1	2.41	0.53
2:CB:217:LEU:HD12	2:CB:367:ASP:HB2	1.90	0.53
2:CD:229:ARG:HD3	2:CD:363:VAL:HG21	1.89	0.53
1:CE:319:GLY:HA2	1:CE:357:PRO:HD3	1.90	0.53
1:CE:347:ASN:O	2:CF:181:VAL:HG12	2.08	0.53
2:D:301:MET:HE3	2:D:301:MET:HA	1.90	0.53
1:DE:73:MET:HA	1:DE:73:MET:HE2	1.90	0.53
2:DH:175:PRO:HB3	2:DH:390:ARG:NH1	2.22	0.53
1:DK:2:ARG:HG3	1:DK:3:GLU:OE1	2.07	0.53
1:DK:10:GLY:O	1:DK:14:ASN:ND2	2.37	0.53
2:EA:71:GLU:HB3	2:EA:98:ASP:HB3	1.91	0.53
2:EG:257:THR:HG1	1:EH:397:TRP:CD1	2.26	0.53
1:EL:387:GLY:HA2	1:EL:390:ARG:CZ	2.38	0.53
1:F:359:LYS:HA	28:4V:215:ARG:HD3	1.90	0.53
2:FC:132:LEU:HD22	2:FC:164:LYS:HD2	1.90	0.53
2:FG:209:ILE:HG21	2:FG:227:VAL:HG13	1.91	0.53
2:FI:219:ILE:HG13	2:FI:222:PRO:HG3	1.90	0.53
2:FI:270:THR:HG23	2:FI:302:LEU:HB2	1.90	0.53
1:FJ:66:MET:HE3	1:FJ:116:VAL:HG11	1.90	0.53
2:GA:306:ASP:OD1	2:GA:308:ARG:NH2	2.28	0.53
1:GB:132:GLY:HA2	1:GB:162:ARG:HB3	1.90	0.53
1:GH:150:LEU:O	1:GH:154:LYS:HG2	2.08	0.53
1:GH:311:LEU:HD23	1:GH:342:ILE:HG21	1.90	0.53
2:GK:5:ILE:HD12	2:GK:125:LEU:HB3	1.89	0.53
1:GL:268:MET:O	1:GL:300:MET:HG2	2.08	0.53
1:HB:33:THR:HG22	17:0m:62:VAL:HG12	1.90	0.53
1:HB:256:ASN:HD21	2:HC:101:ASN:HD22	1.54	0.53
1:HD:320:ARG:NH2	1:HD:355:ASP:OD1	2.40	0.53
1:HF:339:SER:HB3	64:5C:91:LYS:HE3	1.89	0.53
1:I:163:ILE:O	1:I:164:MET:HE2	2.08	0.53
2:II:64:ARG:NH1	2:II:129:CYS:SG	2.81	0.53
2:IK:67:PHE:HB2	2:IK:92:LEU:HD12	1.90	0.53
2:IK:310:GLY:HA3	2:IK:383:ALA:HB2	1.90	0.53
2:IM:286:LEU:O	2:IM:373:ARG:NH1	2.41	0.53
2:IM:387:VAL:HA	2:IM:390:ARG:HG2	1.89	0.53
2:J:75:VAL:O	2:J:79:ARG:HG3	2.08	0.53
1:JA:156:ARG:HH22	1:JA:197:ASP:CG	2.16	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JB:223:SER:OG	2:JB:224:TYR:N	2.38	0.53
1:JG:58:ARG:NH2	1:JG:83:GLN:O	2.39	0.53
1:JK:32:PRO:HD3	1:JK:81:TYR:CZ	2.43	0.53
2:JL:241:SER:HG	2:JL:250:VAL:H	1.55	0.53
1:JM:42:LEU:HD12	1:JM:356:ILE:HD11	1.91	0.53
1:JM:60:VAL:HG11	1:JM:86:ARG:HE	1.73	0.53
2:KH:6:CYS:O	2:KH:65:CYS:HA	2.08	0.53
2:KH:265:ILE:HG23	2:KH:432:TYR:HE1	1.73	0.53
2:KL:356:ASN:OD1	2:KL:357:TYR:N	2.41	0.53
2:KL:398:MET:HA	2:KL:398:MET:HE2	1.89	0.53
1:KM:141:GLY:O	1:KM:145:SER:OG	2.26	0.53
1:KM:289:LEU:HD11	1:KM:363:MET:HG2	1.89	0.53
2:L:204:LEU:HD22	2:L:231:ILE:HG12	1.90	0.53
2:LB:392:ASP:OD2	2:LB:425:LEU:HB3	2.07	0.53
2:LF:51:THR:HG21	2:LF:243:ARG:HG2	1.90	0.53
2:LJ:26:LEU:HD13	45:2z:55:VAL:HG23	1.90	0.53
1:LK:324:LYS:HD3	2:LL:222:PRO:HD2	1.90	0.53
2:LL:90:GLU:HB2	2:LL:121:ARG:HH21	1.73	0.53
2:LL:297:GLU:HG3	2:LL:299:ALA:H	1.74	0.53
1:LO:28:HIS:HA	1:LO:43:GLN:HB3	1.90	0.53
1:LO:191:GLN:O	1:LO:195:ASN:ND2	2.40	0.53
1:M:287:ALA:O	1:M:291:GLN:HG2	2.07	0.53
2:ME:64:ARG:NH1	2:ME:129:CYS:SG	2.81	0.53
2:ME:98:ASP:OD1	2:ME:99:ALA:N	2.41	0.53
1:MH:375:GLN:OE1	1:MH:379:ARG:NH1	2.40	0.53
1:ML:165:MET:HE1	1:ML:200:MET:CE	2.36	0.53
2:MM:431:ASP:HA	2:MM:434:GLU:HG3	1.89	0.53
2:NC:187:CYS:O	2:NC:191:THR:HG23	2.08	0.53
1:NF:3:GLU:O	1:NF:131:GLN:N	2.40	0.53
2:NK:60:LYS:NZ	2:NK:85:GLN:O	2.41	0.53
1:OF:276:ARG:HE	41:2o:345:ARG:HH21	1.56	0.53
1:OH:207:LEU:HB3	1:OH:225:LEU:HG	1.91	0.53
1:OL:68:LEU:HB3	1:OL:96:GLY:HA2	1.89	0.53
1:OL:331:LEU:HD21	2:OM:176:GLN:HB3	1.88	0.53
2:OM:115:VAL:HG11	2:OM:156:ARG:HH11	1.72	0.53
2:OM:243:ARG:HH21	2:OM:244:PHE:HE2	1.56	0.53
2:PE:53:PHE:HB3	2:PE:61:HIS:HB3	1.90	0.53
1:PF:163:ILE:HG21	1:PF:250:LEU:HB3	1.90	0.53
2:PG:287:SER:O	2:PG:291:ILE:HG12	2.07	0.53
1:PH:159:TYR:HB3	1:PH:162:ARG:HG3	1.90	0.53
1:PJ:405:GLU:OE2	57:3g:29:TYR:OH	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PL:282:ARG:NH2	1:PL:288:GLU:OE1	2.41	0.53
2:Q:241:SER:HG	2:Q:250:VAL:H	1.57	0.53
2:QF:319:TYR:HB3	2:QF:323:VAL:HG21	1.90	0.53
2:QJ:104:ALA:HB2	2:QJ:413:MET:HE3	1.90	0.53
2:R:250:VAL:HG11	2:R:318:MET:HE1	1.90	0.53
1:RE:131:GLN:HE21	1:RE:250:LEU:HB2	1.73	0.53
1:RE:236:VAL:HG13	1:RE:237:THR:HG23	1.89	0.53
1:RK:170:ILE:HG21	1:RK:377:MET:HE2	1.89	0.53
2:RL:264:ARG:HH21	2:RL:428:LEU:HD22	1.72	0.53
2:SA:259:LEU:HD21	2:SA:316:CYS:HB2	1.90	0.53
1:SB:112:LEU:HD22	1:SB:147:MET:HE2	1.90	0.53
1:SH:114:ASP:OD2	1:SH:115:SER:N	2.41	0.53
2:SK:402:ARG:HD3	2:SK:405:VAL:HG21	1.90	0.53
2:TE:67:PHE:HB2	2:TE:92:LEU:HD12	1.90	0.53
1:TH:163:ILE:O	1:TH:164:MET:HE2	2.08	0.53
1:TH:272:PRO:HD3	1:TH:364:SER:HA	1.89	0.53
1:TL:152:ILE:HG12	1:TL:164:MET:HE1	1.90	0.53
2:UA:310:GLY:O	2:UA:342:GLN:NE2	2.40	0.53
1:UB:347:ASN:ND2	2:UC:178:SER:OG	2.39	0.53
1:UD:313:ALA:HB3	1:UD:349:ILE:HG12	1.89	0.53
1:UF:46:ARG:HH22	2:UG:76:ASP:CG	2.16	0.53
2:UK:324:VAL:HG13	2:UK:327:ASP:HB2	1.89	0.53
1:UL:267:MET:HE1	1:UL:374:ILE:HD13	1.89	0.53
2:VC:11:GLN:O	2:VC:15:GLN:HG2	2.08	0.53
2:VC:319:TYR:HB3	2:VC:323:VAL:HG21	1.91	0.53
2:VC:325:PRO:O	2:VC:328:VAL:HG22	2.08	0.53
2:VC:336:LYS:HE3	2:VC:351:PHE:CE2	2.44	0.53
1:VD:392:LYS:HA	1:VD:395:LEU:HD12	1.90	0.53
2:WA:209:ILE:HG21	2:WA:227:VAL:HG13	1.89	0.53
1:WB:118:ASP:OD1	1:WB:122:LYS:NZ	2.40	0.53
2:WC:316:CYS:HA	2:WC:352:LYS:O	2.07	0.53
2:WM:332:ILE:HG23	2:WM:351:PHE:CD2	2.42	0.53
5:XN:141:LEU:HB3	5:XN:143:LEU:HD23	1.88	0.53
9:0M:90:VAL:HG13	9:0M:104:MET:HB2	1.90	0.53
9:0M:368:THR:HB	9:0M:386:SER:HB3	1.90	0.53
10:0R:163:GLU:OE1	10:0R:166:ARG:NH1	2.39	0.53
20:0t:121:GLN:O	20:0t:122:THR:OG1	2.23	0.53
22:0z:68:TYR:OH	48:3H:44:ASP:OD1	2.23	0.53
22:0z:84:HIS:CE1	22:0z:87:SER:HB3	2.43	0.53
22:0z:186:ILE:HD11	31:1s:158:LEU:HB2	1.90	0.53
23:1A:256:GLU:HA	23:1A:259:THR:HG22	1.88	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:1T:759:MET:HE3	27:1T:760:PRO:HD2	1.89	0.53
28:1V:5:HIS:NE2	41:2c:355:ASN:OD1	2.31	0.53
33:2I:194:PRO:HG2	33:2I:197:VAL:HG21	1.89	0.53
43:2t:273:ARG:HG2	43:2t:334:ARG:HG3	1.89	0.53
62:4A:427:TRP:CZ3	62:4A:429:HIS:HA	2.43	0.53
2:AA:9:ILE:HD11	2:AA:153:LEU:HD23	1.90	0.53
2:AC:64:ARG:NH1	2:AC:129:CYS:SG	2.80	0.53
2:AE:240:ALA:O	2:AE:356:ASN:ND2	2.41	0.53
2:AE:357:TYR:HE2	54:3Z:382:MET:HB2	1.72	0.53
1:AH:309:ARG:NH1	1:AH:339:SER:O	2.41	0.53
2:AK:213:THR:HA	2:AK:217:LEU:HD12	1.90	0.53
1:AL:318:ARG:HB3	1:AL:357:PRO:HA	1.89	0.53
2:BA:59:GLY:HA3	24:1H:245:ARG:NH1	2.19	0.53
2:BC:91:GLN:HA	2:BC:121:ARG:HG2	1.89	0.53
1:CA:4:ILE:HD11	1:CA:240:LEU:HD22	1.90	0.53
1:CA:267:MET:HG3	1:CA:374:ILE:HD11	1.91	0.53
2:CD:122:ILE:HG21	2:CD:157:LEU:HD11	1.89	0.53
1:CE:330:MET:SD	1:CE:349:ILE:HG21	2.48	0.53
2:CL:39:ASP:OD1	24:1K:363:GLN:HB3	2.08	0.53
1:DA:143:THR:HG23	1:DA:147:MET:HE2	1.89	0.53
1:DC:350:LYS:HZ1	2:DD:180:ALA:HB2	1.73	0.53
2:DF:406:HIS:HA	2:DF:409:VAL:HG22	1.89	0.53
2:DH:275:VAL:HG23	2:DH:368:LEU:HD11	1.90	0.53
1:DK:2:ARG:HG3	1:DK:3:GLU:H	1.73	0.53
2:EE:296:PHE:CE2	2:EE:335:ILE:HG21	2.43	0.53
1:FB:62:ARG:NH1	1:FB:127:CYS:SG	2.81	0.53
2:FE:387:VAL:O	2:FE:391:ILE:HG12	2.08	0.53
1:FJ:173:PRO:HD2	1:FJ:380:ARG:CZ	2.38	0.53
1:G:204:ASN:HA	1:G:207:LEU:HD12	1.90	0.53
1:GD:242:PHE:HB3	1:GD:356:ILE:HD13	1.91	0.53
1:GD:404:ASP:OD1	1:GD:404:ASP:N	2.41	0.53
1:GF:68:LEU:HD12	1:GF:97:ALA:HB2	1.91	0.53
2:GG:1:MET:HE1	1:GH:94:GLN:HA	1.90	0.53
1:GH:2:ARG:NH1	2:GI:72:PRO:HD2	2.22	0.53
1:H:60:VAL:HG21	1:H:86:ARG:HG2	1.91	0.53
2:HA:175:PRO:HG2	2:HA:304:LYS:HG2	1.89	0.53
2:HA:316:CYS:HB3	2:HA:378:ILE:HG23	1.89	0.53
2:HC:71:GLU:HB3	2:HC:98:ASP:HB2	1.90	0.53
1:HH:235:GLY:HA2	1:HH:318:ARG:HH11	1.73	0.53
1:HH:273:LEU:H	1:HH:292:GLN:HE22	1.54	0.53
2:HK:3:GLU:HA	2:HK:51:THR:HA	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HK:97:GLU:OE2	2:HK:105:ARG:NH2	2.34	0.53
1:ID:141:GLY:O	1:ID:145:SER:OG	2.23	0.53
1:IJ:45:GLU:OE1	1:IJ:46:ARG:HG2	2.08	0.53
2:IK:425:LEU:O	2:IK:429:GLU:HG3	2.07	0.53
2:J:213:THR:HA	2:J:217:LEU:HD23	1.91	0.53
2:J:239:THR:HG23	2:J:243:ARG:NH1	2.23	0.53
2:J:269:LEU:HD23	2:J:379:ALA:O	2.08	0.53
2:J:387:VAL:HG23	2:J:390:ARG:HH21	1.74	0.53
2:J:430:LYS:HA	2:J:433:GLU:HG3	1.90	0.53
1:JA:235:GLY:HA2	1:JA:318:ARG:HH11	1.73	0.53
1:JC:58:ARG:NE	1:KC:280:GLN:OE1	2.39	0.53
1:JC:323:THR:HG21	2:JD:224:TYR:CZ	2.43	0.53
2:JD:273:ALA:HB3	2:JD:295:VAL:HG23	1.90	0.53
1:JI:66:MET:HG2	1:JI:116:VAL:HG11	1.89	0.53
2:JJ:326:LYS:HG2	1:JK:212:PHE:CZ	2.44	0.53
2:JL:157:LEU:O	2:JL:161:TYR:HB2	2.07	0.53
2:KB:53:PHE:HB3	2:KB:61:HIS:HB3	1.90	0.53
1:KC:22:GLU:HA	1:KC:81:TYR:CE2	2.44	0.53
2:KD:406:HIS:HA	2:KD:409:VAL:HG22	1.89	0.53
1:KE:2:ARG:NH1	2:KF:72:PRO:HD2	2.23	0.53
1:KE:20:PHE:HA	1:KE:230:ALA:HB1	1.90	0.53
1:KE:293:MET:HG3	1:KE:367:PHE:HB2	1.89	0.53
1:KI:332:ASN:HD22	1:KI:336:LYS:NZ	2.06	0.53
1:KI:347:ASN:ND2	2:KJ:178:SER:H	2.06	0.53
2:KN:286:LEU:O	2:KN:373:ARG:NH1	2.38	0.53
1:LE:210:ILE:HD11	1:LE:273:LEU:HD22	1.90	0.53
2:LF:170:THR:HG21	2:LF:194:LEU:HD21	1.90	0.53
2:LH:293:ASN:O	2:LH:297:GLU:HG2	2.09	0.53
1:LI:292:GLN:O	1:LI:298:ASN:ND2	2.38	0.53
2:LN:311:LYS:H	2:LN:382:THR:HG1	1.56	0.53
1:LO:113:ILE:HG12	1:LO:117:LEU:HD23	1.90	0.53
1:M:324:LYS:HG3	2:MA:222:PRO:HG2	1.91	0.53
2:MC:336:LYS:HE3	2:MC:351:PHE:HD2	1.73	0.53
2:MI:203:MET:HE3	2:MI:203:MET:HA	1.91	0.53
1:MJ:216:LYS:HD3	24:1J:42:LEU:HD22	1.91	0.53
2:MK:178:SER:HB2	2:MK:183:GLU:OE1	2.08	0.53
1:ML:323:THR:HG21	2:MM:224:TYR:CZ	2.43	0.53
2:MM:430:LYS:HD3	2:MM:434:GLU:HG2	1.89	0.53
2:NA:166:LYS:HB2	2:NA:199:ASP:H	1.73	0.53
1:NB:207:LEU:HB3	1:NB:225:LEU:HD11	1.89	0.53
2:NE:377:MET:HA	2:NE:377:MET:HE2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NG:229:ARG:HH11	2:NG:363:VAL:HG21	1.73	0.53
2:NG:326:LYS:NZ	1:NH:220:PRO:HG2	2.23	0.53
1:NL:51:PHE:HB3	1:NL:59:TYR:HB3	1.90	0.53
1:O:325:GLU:N	1:O:325:GLU:OE1	2.41	0.53
2:OG:209:ILE:HG12	2:OG:302:LEU:HD13	1.90	0.53
2:OG:387:VAL:O	2:OG:391:ILE:HG12	2.09	0.53
2:OI:334:THR:HA	2:OI:337:THR:HG22	1.90	0.53
2:OK:256:GLN:HE22	1:OL:397:TRP:HH2	1.56	0.53
1:OL:17:GLY:HA2	1:OL:20:PHE:HB3	1.90	0.53
2:OM:316:CYS:SG	2:OM:318:MET:HE3	2.48	0.53
1:P:239:CYS:HB3	1:P:248:SER:H	1.73	0.53
1:PD:170:ILE:HB	1:PD:203:ASP:OD1	2.08	0.53
2:PE:1:MET:N	2:PE:3:GLU:OE2	2.37	0.53
2:PG:377:MET:SD	2:PG:379:ALA:HB2	2.48	0.53
2:PI:90:GLU:HB2	59:4a:295:THR:HG21	1.91	0.53
1:PJ:276:ARG:NH2	41:2l:342:ASN:O	2.42	0.53
1:PJ:326:VAL:O	1:PJ:330:MET:HE2	2.08	0.53
2:PK:251:ASP:H	2:PK:254:GLU:HB2	1.72	0.53
1:QC:330:MET:HE3	1:QC:349:ILE:HD13	1.90	0.53
1:QE:163:ILE:HG21	1:QE:250:LEU:HB3	1.90	0.53
2:QJ:209:ILE:HG21	2:QJ:227:VAL:HG13	1.90	0.53
1:QK:306:ARG:HA	1:QK:340:TYR:CE1	2.43	0.53
2:R:291:ILE:HD13	2:R:373:ARG:HB3	1.90	0.53
2:RB:51:THR:HG21	2:RB:243:ARG:HG2	1.88	0.53
1:RE:268:MET:HE1	1:RE:368:ILE:HA	1.90	0.53
2:RF:9:ILE:HG22	2:RF:146:GLY:HA2	1.88	0.53
2:RJ:51:THR:HG23	2:RJ:52:PHE:CD1	2.44	0.53
2:SK:55:GLU:O	2:TK:285:GLN:NE2	2.40	0.53
2:SK:173:PRO:HB2	2:SK:390:ARG:HH12	1.71	0.53
1:T:272:PRO:HD3	1:T:364:SER:HA	1.89	0.53
1:T:280:GLN:HA	21:0w:444:MET:HE3	1.90	0.53
1:TB:178:THR:HG22	1:TB:180:VAL:H	1.73	0.53
1:TF:133:PHE:HB2	1:TF:164:MET:SD	2.49	0.53
1:TH:52:ASP:HB2	1:TH:62:ARG:HH21	1.73	0.53
1:TJ:208:TYR:HE1	1:TJ:225:LEU:HD11	1.72	0.53
2:UA:319:TYR:CD2	2:UA:323:VAL:HG11	2.42	0.53
1:VD:389:PHE:HZ	1:VD:405:GLU:HG3	1.73	0.53
2:VE:260:VAL:HG12	2:VE:266:HIS:HA	1.90	0.53
1:VF:113:ILE:HG12	1:VF:117:LEU:HD23	1.90	0.53
2:VI:335:ILE:HG23	2:VI:341:ILE:HD11	1.91	0.53
2:VK:247:ALA:HB3	2:VK:355:ILE:HB	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:WF:68:LEU:HA	1:WF:93:GLY:H	1.72	0.53
1:WF:170:ILE:HG21	1:WF:377:MET:HE3	1.90	0.53
2:WI:346:TRP:CD1	1:WJ:391:ARG:HG3	2.42	0.53
2:WM:79:ARG:HG3	2:WM:92:LEU:HD22	1.89	0.53
9:0L:513:LEU:HG	9:0L:524:THR:HG22	1.91	0.53
9:0M:555:SER:HB2	9:0M:597:LYS:HA	1.90	0.53
9:0O:214:ILE:HG23	9:0O:228:LEU:HD22	1.89	0.53
13:0Y:152:MET:HE2	32:2B:203:VAL:HG13	1.90	0.53
16:0l:566:GLU:O	16:0l:570:VAL:HG23	2.09	0.53
23:1A:186:ALA:O	23:1A:190:VAL:HG23	2.08	0.53
23:1B:327:LYS:HE2	44:2w:10:TYR:HE2	1.73	0.53
24:1K:698:VAL:HG11	24:1K:712:MET:HG3	1.90	0.53
27:1S:338:ARG:NH1	27:1S:366:ASP:O	2.41	0.53
36:2Q:63:CYS:SG	36:2Q:75:GLU:HG3	2.48	0.53
41:2k:261:VAL:O	41:2k:265:THR:HG23	2.08	0.53
44:2w:83:ALA:HB1	44:2w:152:VAL:HG13	1.90	0.53
54:3Z:401:HIS:HE2	54:3Z:442:LEU:HB2	1.72	0.53
66:5K:152:ASN:HB2	66:5K:175:ILE:HD12	1.90	0.53
67:5P:6:VAL:HG13	67:5P:84:LEU:HD13	1.89	0.53
1:A:8:GLN:HE22	1:A:21:TRP:HE1	1.55	0.53
1:A:185:THR:O	1:A:189:VAL:HG13	2.08	0.53
1:AD:267:MET:HE1	1:AD:305:PRO:HG3	1.89	0.53
2:AI:326:LYS:HZ1	1:AJ:220:PRO:HG2	1.74	0.53
1:AJ:49:VAL:HG11	1:AJ:241:ARG:HG2	1.91	0.53
2:AK:425:LEU:O	2:AK:429:GLU:HG3	2.08	0.53
2:BA:209:ILE:HD11	2:BA:230:LEU:HD13	1.91	0.53
2:BA:241:SER:OG	2:BA:250:VAL:O	2.26	0.53
2:BC:174:SER:HB3	2:BC:205:ASP:HB2	1.91	0.53
1:BJ:403:MET:HE3	1:BJ:408:PHE:CE1	2.43	0.53
2:C:295:VAL:HG21	2:C:375:VAL:HG13	1.90	0.53
1:CC:170:ILE:HG21	1:CC:377:MET:SD	2.49	0.53
2:CD:209:ILE:HG21	2:CD:227:VAL:HG13	1.91	0.53
2:CD:221:ARG:NH1	16:0k:420:ASP:OD2	2.40	0.53
1:CG:379:ARG:O	1:CG:383:GLU:HG3	2.09	0.53
1:CK:10:GLY:O	1:CK:14:ASN:ND2	2.41	0.53
1:CK:284:LEU:HD23	1:CK:362:LYS:HB3	1.89	0.53
1:CM:236:VAL:HG13	1:CM:237:THR:HG23	1.91	0.53
2:D:384:ILE:O	2:D:387:VAL:HG22	2.07	0.53
2:DB:259:LEU:HD21	2:DB:378:ILE:HG21	1.91	0.53
2:DJ:392:ASP:OD1	2:DJ:393:HIS:N	2.41	0.53
1:DK:323:THR:HG21	2:DL:224:TYR:CE1	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2:ARG:NH1	2:EA:72:PRO:HD2	2.23	0.53
1:EB:289:LEU:HD22	1:EB:365:VAL:HG12	1.89	0.53
2:EE:317:LEU:HD23	2:EE:377:MET:HB2	1.90	0.53
1:EH:268:MET:N	1:EH:299:MET:HE1	2.23	0.53
2:EI:101:ASN:HD22	2:EI:143:GLY:HA2	1.73	0.53
1:FD:385:PHE:HE2	1:FD:412:GLU:HB2	1.72	0.53
2:FE:288:VAL:HB	2:FE:327:ASP:HB3	1.89	0.53
2:FE:340:THR:HG21	63:4I:292:GLY:HA3	1.90	0.53
2:FG:212:LEU:HD13	2:FG:300:GLY:HA2	1.89	0.53
2:FI:273:ALA:HB3	2:FI:295:VAL:HG23	1.89	0.53
1:FJ:66:MET:SD	1:FJ:151:LEU:HD22	2.48	0.53
2:FK:323:VAL:HG23	2:FK:355:ILE:HG23	1.90	0.53
2:GA:259:LEU:HD13	2:GA:378:ILE:HG12	1.89	0.53
1:GF:232:VAL:O	1:GF:236:VAL:HG23	2.08	0.53
2:GG:2:ARG:HG3	2:GG:51:THR:HG22	1.90	0.53
2:GK:199:ASP:HB3	2:GK:256:GLN:HE22	1.74	0.53
1:GL:267:MET:HB3	1:GL:299:MET:HE2	1.89	0.53
1:H:144:GLY:N	69:H:500:GDP:O2B	2.30	0.53
2:HG:139:HIS:O	2:HG:170:THR:HA	2.08	0.53
2:HI:137:VAL:HG11	2:HI:154:LEU:HD21	1.89	0.53
2:HI:270:THR:HA	2:HI:377:MET:O	2.09	0.53
1:HJ:144:GLY:N	69:HJ:500:GDP:O2B	2.36	0.53
2:HK:66:LEU:HD11	2:HK:121:ARG:HB3	1.89	0.53
1:HL:257:LEU:HB3	1:HL:266:PHE:CE2	2.43	0.53
1:I:222:PHE:HB3	69:I:500:GDP:C6	2.42	0.53
1:IL:240:LEU:HD11	1:IL:250:LEU:HD13	1.89	0.53
1:IL:245:GLN:NE2	2:IM:223:SER:HG	2.04	0.53
1:JA:256:ASN:O	1:JA:312:THR:HG21	2.08	0.53
1:JA:289:LEU:HD12	1:JA:363:MET:HE2	1.89	0.53
2:JB:44:VAL:HG23	17:0m:10:ARG:HD3	1.90	0.53
1:JC:276:ARG:HD3	1:JC:279:GLN:OE1	2.08	0.53
2:JD:367:ASP:N	2:JD:367:ASP:OD1	2.41	0.53
1:JK:321:MET:HE2	1:JK:363:MET:SD	2.48	0.53
2:KB:116:ASP:OD1	2:KB:117:LEU:N	2.41	0.53
1:KE:28:HIS:HA	1:KE:43:GLN:HG2	1.89	0.53
1:KE:209:ASP:CG	1:KE:213:ARG:HE	2.17	0.53
1:KE:324:LYS:N	2:KF:221:ARG:HH22	2.05	0.53
1:KG:31:ASP:OD1	1:KG:37:GLN:NE2	2.41	0.53
2:KJ:113:GLU:OE1	35:2O:96:TYR:OH	2.27	0.53
2:KJ:212:LEU:HD13	2:KJ:300:GLY:HA2	1.88	0.53
1:LA:163:ILE:HD11	1:LA:251:ARG:HG3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LA:325:GLU:HA	1:LA:328:GLU:HG3	1.90	0.53
2:LB:186:ASN:OD1	2:LB:408:TYR:OH	2.25	0.53
2:LD:413:MET:CG	2:LD:417:GLU:HG3	2.39	0.53
1:LE:60:VAL:HG11	1:LE:86:ARG:HG3	1.89	0.53
1:LG:289:LEU:HD11	1:LG:363:MET:HG3	1.90	0.53
1:LI:86:ARG:HG3	1:MH:281:TYR:HB3	1.90	0.53
2:LJ:127:ASP:OD1	2:LJ:128:ASN:N	2.41	0.53
1:LO:360:GLY:HA2	23:1F:337:GLN:HE22	1.74	0.53
1:M:323:THR:HA	1:M:326:VAL:HG12	1.89	0.53
2:MA:329:ASN:OD1	2:MA:330:ALA:N	2.42	0.53
2:MC:370:LYS:HG3	23:1A:189:GLN:NE2	2.23	0.53
2:ME:362:VAL:HB	2:ME:370:LYS:HB3	1.90	0.53
2:MG:274:PRO:HG2	2:MG:371:VAL:HG11	1.90	0.53
1:MJ:287:ALA:C	14:0d:82:ARG:HH21	2.16	0.53
1:MJ:424:GLN:O	1:MJ:428:ALA:HB2	2.08	0.53
2:MM:186:ASN:OD1	2:MM:408:TYR:OH	2.26	0.53
1:N:55:SER:OG	41:2n:165:ARG:NH2	2.42	0.53
1:NB:22:GLU:HG2	1:NB:81:TYR:CD2	2.43	0.53
1:ND:113:ILE:HA	1:ND:116:VAL:HB	1.91	0.53
1:NL:314:SER:HB3	1:NL:368:ILE:HG23	1.90	0.53
1:OF:103:LYS:HA	1:OF:107:THR:HG22	1.91	0.53
2:OG:180:ALA:HB3	2:OG:183:GLU:HB2	1.89	0.53
2:OK:291:ILE:O	2:OK:295:VAL:HG23	2.08	0.53
2:PG:21:TRP:CZ2	2:PG:65:CYS:HB3	2.44	0.53
2:PG:195:LEU:HD11	2:PG:428:LEU:HD22	1.91	0.53
2:PG:326:LYS:HE3	1:PH:220:PRO:HD2	1.90	0.53
2:PM:21:TRP:CZ2	2:PM:65:CYS:HB2	2.43	0.53
2:Q:27:GLU:OE2	2:Q:28:HIS:ND1	2.41	0.53
1:QA:49:VAL:HG11	1:QA:241:ARG:HG2	1.90	0.53
1:QE:83:GLN:O	1:RE:281:TYR:OH	2.25	0.53
2:QF:435:VAL:O	1:QG:391:ARG:NH2	2.41	0.53
1:QG:341:PHE:HB3	1:QG:348:ASN:ND2	2.21	0.53
2:QH:273:ALA:HB3	2:QH:295:VAL:HG23	1.91	0.53
2:QJ:237:SER:HA	2:QJ:320:ARG:HD2	1.90	0.53
2:QL:164:LYS:HD3	2:QL:165:SER:H	1.72	0.53
1:RI:260:PHE:HB2	1:RI:263:LEU:HD13	1.90	0.53
1:RK:254:ALA:O	1:RK:258:VAL:HG22	2.08	0.53
1:S:18:SER:O	1:S:22:GLU:HG2	2.08	0.53
1:S:252:LYS:O	1:S:256:ASN:ND2	2.37	0.53
1:SF:149:THR:HG21	1:SF:188:SER:HA	1.90	0.53
1:SF:200:MET:HE2	1:SF:266:PHE:HD2	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SH:66:MET:SD	1:SH:116:VAL:HG11	2.49	0.53
1:T:60:VAL:HG21	1:T:86:ARG:HG3	1.91	0.53
1:TD:105:HIS:CD2	1:TD:150:LEU:HD23	2.44	0.53
2:TE:224:TYR:HA	2:TE:227:VAL:HG22	1.88	0.53
1:TH:267:MET:N	1:TH:369:GLY:O	2.27	0.53
1:TH:330:MET:SD	1:TH:349:ILE:HG21	2.49	0.53
2:UC:319:TYR:CE2	2:UC:328:VAL:HG22	2.43	0.53
2:UG:139:HIS:O	2:UG:170:THR:HA	2.08	0.53
2:VA:53:PHE:O	2:VA:64:ARG:NH1	2.42	0.53
1:VB:189:VAL:HG11	1:VB:415:MET:SD	2.48	0.53
2:VG:212:LEU:HD21	2:VG:275:VAL:HG11	1.90	0.53
2:VK:122:ILE:HG21	2:VK:157:LEU:HD21	1.89	0.53
2:VM:62:VAL:HG21	2:VM:88:ASN:HD22	1.74	0.53
1:W:256:ASN:O	1:W:312:THR:HG21	2.08	0.53
2:WC:33:ASP:OD1	2:WC:34:GLY:N	2.41	0.53
2:WE:169:TYR:HA	2:WE:202:THR:HB	1.90	0.53
1:WF:198:GLU:HB2	1:WF:266:PHE:CE2	2.39	0.53
2:WG:387:VAL:O	2:WG:391:ILE:HG12	2.08	0.53
2:WI:64:ARG:NH1	2:WI:129:CYS:SG	2.81	0.53
2:WK:406:HIS:HA	2:WK:409:VAL:HG22	1.91	0.53
4:XR:223:GLN:HG2	4:XR:280:THR:HG22	1.90	0.53
7:0D:351:SER:HA	7:0D:354:PHE:CZ	2.43	0.53
20:0t:212:VAL:HG22	20:0t:263:LEU:HD12	1.91	0.53
21:0w:155:ARG:HG3	21:0w:155:ARG:HH11	1.74	0.53
21:0x:488:VAL:O	21:0x:491:ARG:HG3	2.08	0.53
28:1U:154:ARG:O	28:1U:158:GLU:HG3	2.08	0.53
32:2C:214:MET:HE2	32:2C:220:LYS:HE3	1.91	0.53
36:2Q:14:PHE:CE2	36:2Q:73:PHE:HB2	2.43	0.53
40:2Z:116:ASN:HD21	40:2Z:119:ARG:HD3	1.73	0.53
57:3f:120:GLN:OE1	57:3f:123:ARG:NH2	2.42	0.53
60:3s:115:LEU:O	60:3s:119:LEU:HD23	2.08	0.53
1:AB:204:ASN:OD1	69:AB:500:GDP:O2'	2.26	0.53
2:AM:434:GLU:OE2	3:XF:100:ARG:NH1	2.33	0.53
1:AN:2:ARG:N	1:AN:129:CYS:O	2.41	0.53
2:BA:172:TYR:CD1	2:BA:203:MET:HG3	2.43	0.53
2:BA:212:LEU:HD21	2:BA:275:VAL:HG21	1.89	0.53
1:BH:33:THR:O	1:BH:58:ARG:NH1	2.41	0.53
1:BJ:392:LYS:NZ	1:BJ:405:GLU:OE2	2.41	0.53
1:BL:203:ASP:HB2	1:BL:377:MET:HE1	1.90	0.53
2:BM:291:ILE:O	2:BM:295:VAL:HG23	2.08	0.53
1:BN:148:GLY:O	1:BN:152:ILE:HG12	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:172:TYR:CD1	2:CB:203:MET:HG3	2.43	0.53
1:CE:268:MET:HB2	1:CE:300:MET:HB3	1.90	0.53
1:CG:236:VAL:HG13	1:CG:237:THR:HG23	1.89	0.53
2:CH:46:ASP:OD1	2:CH:47:ASP:N	2.41	0.53
1:CI:236:VAL:HG13	1:CI:237:THR:HG23	1.89	0.53
1:CM:316:LEU:HB2	1:CM:366:THR:HG22	1.90	0.53
2:DD:237:SER:HA	2:DD:320:ARG:HH11	1.73	0.53
2:DF:269:LEU:HG	2:DF:303:THR:HG21	1.91	0.53
1:DK:207:LEU:HD22	1:DK:300:MET:HB2	1.90	0.53
1:EB:237:THR:HG22	1:EB:250:LEU:HD21	1.89	0.53
1:EH:186:THR:HG22	1:EH:411:ALA:HB1	1.91	0.53
1:EJ:207:LEU:HB3	1:EJ:225:LEU:HD11	1.90	0.53
1:FB:312:THR:HG21	2:FC:404:PHE:HZ	1.74	0.53
2:FG:253:THR:HA	2:FG:256:GLN:HB3	1.90	0.53
2:FI:180:ALA:HB3	2:FI:183:GLU:HB2	1.91	0.53
1:FL:113:ILE:HG13	1:FL:117:LEU:HD23	1.90	0.53
1:FL:172:SER:OG	1:FL:205:GLU:OE2	2.26	0.53
2:GC:67:PHE:HB2	2:GC:92:LEU:HD12	1.89	0.53
1:GH:66:MET:SD	1:GH:116:VAL:HG21	2.49	0.53
2:HC:11:GLN:O	2:HC:15:GLN:HG2	2.08	0.53
2:HE:237:SER:HA	2:HE:320:ARG:HD2	1.90	0.53
2:HG:293:ASN:O	2:HG:297:GLU:HG2	2.09	0.53
1:HH:23:VAL:O	1:HH:27:GLU:HG3	2.07	0.53
2:HI:88:ASN:HB3	2:HI:91:GLN:HG2	1.91	0.53
1:ID:178:THR:HG22	1:ID:180:VAL:H	1.74	0.53
1:ID:229:VAL:O	1:ID:233:MET:HG3	2.09	0.53
2:IG:282:TYR:CD1	7:0D:134:VAL:HG21	2.44	0.53
1:IH:252:LYS:HE3	2:II:101:ASN:ND2	2.23	0.53
1:JA:60:VAL:HG11	1:JA:86:ARG:HE	1.72	0.53
2:JD:400:SER:O	60:3r:112:ASN:ND2	2.28	0.53
1:JK:171:PRO:HG2	1:JK:181:GLU:OE2	2.09	0.53
2:JN:244:PHE:O	2:JN:356:ASN:ND2	2.41	0.53
2:KB:66:LEU:HD22	2:KB:122:ILE:HG13	1.90	0.53
1:KG:313:ALA:HB3	1:KG:349:ILE:HG12	1.91	0.53
2:KH:313:MET:HE3	2:KH:380:ASN:OD1	2.08	0.53
1:KI:293:MET:HE1	1:KI:330:MET:HE1	1.91	0.53
2:KL:262:TYR:HB2	2:KL:265:ILE:HG12	1.91	0.53
2:LB:195:LEU:HD21	2:LB:264:ARG:HH21	1.72	0.53
2:LD:5:ILE:HD13	2:LD:64:ARG:HB3	1.91	0.53
2:LD:108:TYR:CE2	2:LD:413:MET:HG3	2.44	0.53
2:LD:288:VAL:HB	2:LD:327:ASP:HB3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LH:334:THR:HA	2:LH:337:THR:HG22	1.90	0.53
2:LL:340:THR:HG23	2:LL:341:ILE:HG23	1.89	0.53
1:LO:421:GLU:OE1	1:LO:424:GLN:NE2	2.41	0.53
2:ME:211:ASP:OD1	2:ME:304:LYS:NZ	2.42	0.53
2:MG:270:THR:HG23	2:MG:302:LEU:HB2	1.88	0.53
1:MH:345:ILE:O	1:MH:348:ASN:ND2	2.41	0.53
2:MK:338:LYS:NZ	2:MK:341:ILE:HG12	2.23	0.53
2:MM:308:ARG:NH2	33:2I:167:PRO:O	2.41	0.53
1:MN:326:VAL:HG11	1:MN:353:ILE:HD11	1.89	0.53
1:N:148:GLY:O	1:N:152:ILE:HG12	2.08	0.53
1:N:262:ARG:HG2	1:N:262:ARG:O	2.08	0.53
1:NL:202:ILE:HD11	1:NL:268:MET:SD	2.48	0.53
2:NM:167:LEU:HD13	2:NM:200:VAL:HB	1.90	0.53
1:O:321:MET:HE1	1:O:326:VAL:HG13	1.90	0.53
2:OC:26:LEU:HD22	2:OC:363:VAL:HG12	1.90	0.53
2:OC:60:LYS:NZ	41:2k:190:TRP:HE1	2.07	0.53
2:OC:180:ALA:HB3	2:OC:183:GLU:HB2	1.91	0.53
2:OC:304:LYS:HA	2:OC:304:LYS:HE2	1.89	0.53
1:OF:313:ALA:HB3	1:OF:349:ILE:HD13	1.91	0.53
2:OG:209:ILE:HG21	2:OG:227:VAL:HG13	1.91	0.53
2:OI:217:LEU:HD21	2:OI:275:VAL:HG22	1.88	0.53
1:OJ:304:ASP:CB	1:OJ:306:ARG:HH11	2.21	0.53
1:OL:259:PRO:HA	2:OM:404:PHE:HD1	1.72	0.53
2:PE:274:PRO:HD3	2:PE:374:ALA:HA	1.89	0.53
2:PG:206:ASN:OD1	71:PG:501:GTP:O2'	2.27	0.53
2:PI:295:VAL:HG21	2:PI:375:VAL:HG13	1.90	0.53
2:QB:152:LEU:O	2:QB:156:ARG:HG2	2.08	0.53
1:QC:66:MET:HE2	1:QC:147:MET:HE3	1.88	0.53
1:QI:290:THR:HA	1:QI:293:MET:HE2	1.90	0.53
1:QK:163:ILE:HD11	1:QK:251:ARG:HD3	1.90	0.53
2:RD:319:TYR:HB3	2:RD:323:VAL:HG21	1.89	0.53
2:RF:248:LEU:HD11	1:RG:222:PHE:HE2	1.73	0.53
2:RJ:244:PHE:HB2	2:RJ:356:ASN:HD21	1.73	0.53
2:RL:223:SER:OG	2:RL:224:TYR:N	2.41	0.53
1:S:137:HIS:ND1	1:S:144:GLY:O	2.41	0.53
1:SB:2:ARG:NH2	2:SC:71:GLU:OE1	2.41	0.53
2:SC:173:PRO:HG3	2:SC:183:GLU:HG2	1.90	0.53
1:UB:193:VAL:HG11	1:UB:262:ARG:HH21	1.72	0.53
1:UD:159:TYR:HB3	1:UD:162:ARG:HG3	1.90	0.53
1:UH:255:VAL:HG11	2:UI:100:ALA:O	2.09	0.53
1:V:170:ILE:HD12	1:V:201:CYS:HB3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:372:THR:HG21	1:V:426:GLN:HB2	1.91	0.53
1:VF:290:THR:HA	1:VF:293:MET:HG2	1.89	0.53
1:VJ:134:GLN:NE2	1:VJ:233:MET:HE3	2.23	0.53
2:VK:116:ASP:OD1	2:VK:117:LEU:N	2.39	0.53
2:VM:195:LEU:HD21	2:VM:264:ARG:HH21	1.73	0.53
2:WK:134:GLY:HA2	2:WK:164:LYS:HG2	1.91	0.53
1:WL:324:LYS:NZ	2:WM:222:PRO:HG2	2.23	0.53
5:XN:22:LEU:HD21	5:XN:178:LEU:HD12	1.90	0.53
5:XN:290:LEU:HD12	5:XN:293:ARG:HD2	1.89	0.53
4:XR:181:CYS:O	4:XR:185:LEU:HG	2.09	0.53
9:0M:472:ILE:HG12	9:0M:483:THR:HG22	1.91	0.53
9:0M:529:LYS:HG2	9:0M:552:GLU:HA	1.90	0.53
9:0O:107:HIS:ND1	9:0O:131:ASP:OD2	2.37	0.53
11:0U:5:GLN:N	11:0U:31:GLU:OE2	2.41	0.53
11:0U:235:LEU:HD22	11:0U:239:ASP:HB3	1.90	0.53
16:0k:30:PHE:CE1	16:0k:49:VAL:HG11	2.44	0.53
16:0k:777:LEU:HA	16:0k:782:PRO:HD2	1.91	0.53
17:0n:370:GLU:O	17:0n:373:ARG:HG3	2.07	0.53
20:0t:190:CYS:SG	20:0t:216:ARG:HB2	2.48	0.53
22:0z:179:LEU:HD23	22:0z:182:LEU:HD21	1.91	0.53
24:1H:530:LYS:NZ	24:1H:581:GLU:OE2	2.41	0.53
25:1O:100:LEU:HD11	25:1O:207:VAL:HG21	1.90	0.53
27:1S:510:PHE:CZ	27:1S:563:LEU:HD11	2.38	0.53
27:1S:533:VAL:HG21	27:1S:571:ILE:HD13	1.89	0.53
28:1U:159:GLN:O	28:1U:161:ARG:NH1	2.42	0.53
40:2Z:274:ASP:OD2	40:2Z:276:THR:N	2.41	0.53
41:2o:352:ARG:NH2	41:2o:353:GLN:HG3	2.24	0.53
44:2w:308:ARG:NH2	44:2w:392:ASP:OD1	2.41	0.53
44:2w:333:GLN:HB2	44:2w:360:LEU:HD11	1.90	0.53
49:3Q:556:ASP:OD1	49:3Q:557:PHE:N	2.41	0.53
28:4W:186:ASN:C	28:4W:186:ASN:HD22	2.16	0.53
64:5D:96:GLU:HA	64:5D:99:LYS:HD2	1.90	0.53
65:5H:185:ALA:HB2	66:5L:269:LEU:HD12	1.91	0.53
66:5L:91:TYR:HB3	66:5L:94:SER:HB2	1.89	0.53
68:5T:102:GLU:HG2	68:5T:104:PRO:HD3	1.89	0.53
2:AC:204:LEU:HD22	2:AC:231:ILE:HG12	1.90	0.53
2:AI:49:PHE:HE1	2:AI:55:GLU:HB2	1.73	0.53
1:AJ:63:ALA:O	1:AJ:89:ASN:ND2	2.32	0.53
1:AJ:281:TYR:O	1:MJ:86:ARG:NH1	2.41	0.53
1:BD:87:PRO:HD3	1:CC:281:TYR:CD2	2.44	0.53
1:BF:362:LYS:HD2	16:0k:25:PHE:CD1	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BH:350:LYS:CE	2:BI:180:ALA:HA	2.35	0.53
1:BJ:327:ASP:OD2	2:BK:177:VAL:HG13	2.08	0.53
2:BM:187:CYS:O	2:BM:191:THR:HG23	2.08	0.53
2:C:204:LEU:HD13	2:C:231:ILE:HD13	1.90	0.53
2:CD:177:VAL:N	2:CD:207:GLU:OE2	2.24	0.53
1:CE:154:LYS:HZ3	1:CE:154:LYS:HB2	1.72	0.53
2:CF:361:THR:HG22	25:1O:277:ILE:HD13	1.89	0.53
1:CG:289:LEU:HD11	1:CG:363:MET:HG3	1.89	0.53
2:CH:138:PHE:HE2	2:CH:235:VAL:HG11	1.74	0.53
1:CK:181:GLU:HB3	1:CK:182:PRO:HD3	1.91	0.53
1:DG:100:ASN:HB3	1:DG:103:LYS:HG2	1.89	0.53
2:DJ:431:ASP:OD2	2:DJ:432:TYR:N	2.42	0.53
1:E:36:TYR:OH	1:E:40:SER:O	2.25	0.53
2:EA:225:THR:HG22	2:EA:229:ARG:HH21	1.74	0.53
1:EB:323:THR:HA	1:EB:326:VAL:HG12	1.89	0.53
1:EF:199:SER:O	1:EF:265:PHE:HA	2.07	0.53
1:EF:385:PHE:HE2	1:EF:412:GLU:HB2	1.73	0.53
2:EI:227:VAL:O	2:EI:231:ILE:HG12	2.08	0.53
1:EL:186:THR:HG21	1:EL:385:PHE:CD2	2.44	0.53
1:F:100:ASN:ND2	1:F:401:GLU:HG3	2.23	0.53
1:F:156:ARG:NH2	1:F:197:ASP:OD2	2.41	0.53
1:F:268:MET:H	1:F:301:GLN:HE22	1.55	0.53
1:FB:73:MET:HG3	1:FB:92:PHE:HB3	1.89	0.53
1:FD:113:ILE:HG13	1:FD:117:LEU:HD23	1.89	0.53
1:FD:121:ARG:NE	1:FD:158:GLU:OE2	2.41	0.53
1:FH:215:LEU:HB3	1:FH:217:LEU:HG	1.91	0.53
1:FH:217:LEU:HB2	1:FH:220:PRO:HG3	1.91	0.53
1:FH:252:LYS:HE3	2:FI:101:ASN:OD1	2.08	0.53
1:FL:66:MET:SD	1:FL:116:VAL:HG21	2.49	0.53
1:GF:372:THR:HB	1:GF:426:GLN:HB2	1.90	0.53
2:GI:174:SER:HB2	2:GI:207:GLU:HB2	1.90	0.53
1:GJ:270:PHE:O	1:GJ:298:ASN:ND2	2.41	0.53
1:GL:128:ASP:OD1	1:GL:129:CYS:N	2.41	0.53
1:GL:272:PRO:HD3	1:GL:364:SER:HA	1.90	0.53
1:GL:322:SER:OG	1:GL:324:LYS:NZ	2.39	0.53
2:HC:258:ASN:ND2	2:HC:352:LYS:HD3	2.24	0.53
2:HC:360:PRO:HG2	2:HC:374:ALA:HB3	1.90	0.53
2:HI:169:TYR:CE2	2:HI:235:VAL:HG22	2.43	0.53
2:HM:174:SER:OG	2:HM:207:GLU:HG3	2.09	0.53
2:HM:262:TYR:HB2	2:HM:265:ILE:HG12	1.91	0.53
2:IA:155:GLU:HA	2:IA:197:HIS:ND1	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IF:313:ALA:HB3	1:IF:349:ILE:HG12	1.91	0.53
2:IG:205:ASP:OD1	2:IG:303:THR:HA	2.07	0.53
1:IJ:2:ARG:HD2	1:IJ:240:LEU:HD22	1.90	0.53
2:IM:271:SER:HA	2:IM:302:LEU:HD23	1.91	0.53
2:J:180:ALA:HB3	2:J:183:GLU:HG3	1.90	0.53
2:JB:387:VAL:HG12	2:JB:390:ARG:HH12	1.72	0.53
1:JC:344:TRP:H	1:JC:344:TRP:CD1	2.26	0.53
2:JD:64:ARG:NH1	2:JD:129:CYS:SG	2.82	0.53
2:JD:293:ASN:O	2:JD:297:GLU:HG2	2.09	0.53
1:JI:236:VAL:HG13	1:JI:237:THR:HG23	1.90	0.53
1:JK:26:ASP:OD1	1:JK:27:GLU:N	2.42	0.53
2:KF:367:ASP:N	2:KF:367:ASP:OD1	2.42	0.53
1:KG:58:ARG:NH2	23:1E:212:GLU:OE1	2.41	0.53
1:KG:97:ALA:HB2	1:KG:143:THR:HB	1.90	0.53
2:LB:309:HIS:HA	22:1w:60:LEU:O	2.08	0.53
2:LF:430:LYS:HE2	2:LF:430:LYS:HA	1.90	0.53
1:LG:187:LEU:HD23	1:LG:190:HIS:HE1	1.72	0.53
2:LJ:338:LYS:HZ3	2:LJ:340:THR:HG1	1.49	0.53
1:LK:40:SER:HB2	45:2z:80:VAL:HG23	1.80	0.53
2:LL:308:ARG:NH1	35:2O:136:MET:HE3	2.24	0.53
1:LM:257:LEU:HD11	1:LM:314:SER:HB3	1.91	0.53
2:MC:175:PRO:HB3	2:MC:390:ARG:HD3	1.91	0.53
2:MI:254:GLU:HA	1:MJ:98:GLY:HA2	1.90	0.53
2:MM:64:ARG:NH1	2:MM:129:CYS:SG	2.82	0.53
2:MM:218:ASP:OD1	29:1l:224:ARG:NH1	2.41	0.53
2:NA:26:LEU:HD12	2:NA:363:VAL:HG12	1.90	0.53
2:NA:89:PRO:HB2	2:OA:280:LYS:HE3	1.90	0.53
1:NB:175:VAL:HG21	1:NB:204:ASN:HB2	1.89	0.53
1:NB:257:LEU:O	1:NB:312:THR:OG1	2.18	0.53
1:NB:307:HIS:HA	60:3r:88:TRP:CZ3	2.44	0.53
1:ND:226:ASN:HA	1:ND:229:VAL:HG12	1.91	0.53
1:NH:239:CYS:HB3	1:NH:248:SER:H	1.72	0.53
1:NH:255:VAL:HG11	2:NI:100:ALA:O	2.08	0.53
1:OB:222:PHE:HA	1:OB:225:LEU:HD12	1.89	0.53
1:OF:10:GLY:HA2	1:OF:143:THR:HG23	1.90	0.53
1:OF:229:VAL:HA	1:OF:300:MET:HE1	1.89	0.53
1:OJ:270:PHE:HB3	1:OJ:273:LEU:HD11	1.89	0.53
1:P:263:LEU:HG	1:P:422:TYR:CE1	2.44	0.53
2:PA:167:LEU:HD11	2:PA:255:PHE:HE2	1.72	0.53
2:PA:264:ARG:HG3	57:3f:31:GLN:HE21	1.74	0.53
1:PB:156:ARG:HH22	1:PB:197:ASP:CG	2.15	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PC:212:LEU:HD13	2:PC:302:LEU:HD23	1.90	0.53
1:PF:332:ASN:HB3	1:PF:336:LYS:HZ3	1.74	0.53
1:PJ:11:GLN:O	1:PJ:15:GLN:HG3	2.09	0.53
2:PM:274:PRO:HD2	2:PM:374:ALA:HA	1.91	0.53
1:QG:237:THR:HG22	1:QG:250:LEU:HD11	1.89	0.53
2:QJ:326:LYS:NZ	1:QK:220:PRO:O	2.39	0.53
2:QL:271:SER:OG	2:QL:295:VAL:HG13	2.08	0.53
2:QL:311:LYS:N	2:QL:382:THR:OG1	2.41	0.53
2:R:9:ILE:HB	2:R:139:HIS:HB3	1.90	0.53
2:R:241:SER:OG	2:R:250:VAL:O	2.19	0.53
2:RB:195:LEU:HA	2:RB:266:HIS:HE1	1.74	0.53
2:RF:251:ASP:H	2:RF:254:GLU:HB3	1.74	0.53
2:RJ:203:MET:SD	2:RJ:384:ILE:HD11	2.49	0.53
1:RK:14:ASN:ND2	1:RK:66:MET:O	2.38	0.53
2:SA:199:ASP:HB3	2:SA:256:GLN:NE2	2.23	0.53
1:SD:342:ILE:HD11	1:SD:345:ILE:HD12	1.90	0.53
2:SG:431:ASP:HB2	57:3g:151:LEU:HD11	1.89	0.53
2:SK:101:ASN:ND2	2:SK:143:GLY:HA2	2.24	0.53
1:TD:252:LYS:NZ	71:TE:501:GTP:O3G	2.30	0.53
1:TF:237:THR:HG22	1:TF:250:LEU:HD21	1.90	0.53
1:TF:272:PRO:HD2	1:TF:361:LEU:HD13	1.90	0.53
1:TH:20:PHE:HB2	1:TH:233:MET:HE3	1.91	0.53
1:TH:322:SER:OG	1:TH:325:GLU:OE1	2.23	0.53
2:TI:104:ALA:HB2	2:TI:413:MET:HE3	1.90	0.53
1:UB:279:GLN:NE2	53:3W:202:LEU:HA	2.24	0.53
2:UG:90:GLU:HG3	2:UG:121:ARG:NH2	2.23	0.53
2:UI:212:LEU:O	2:UI:216:SER:HB2	2.07	0.53
2:UI:288:VAL:HB	2:UI:327:ASP:HB3	1.91	0.53
2:UK:169:TYR:HB3	2:UK:204:LEU:HD11	1.91	0.53
1:VB:17:GLY:HA2	1:VB:20:PHE:HB3	1.90	0.53
1:VF:163:ILE:HD11	1:VF:251:ARG:NE	2.16	0.53
2:VG:301:MET:HE1	2:VG:307:PRO:HG2	1.91	0.53
1:VH:329:GLN:OE1	62:4B:300:THR:OG1	2.26	0.53
2:VI:217:LEU:HB3	2:VI:219:ILE:HG13	1.90	0.53
1:WF:239:CYS:HB3	1:WF:248:SER:H	1.72	0.53
3:X:2:PHE:HB3	3:X:7:GLN:HE21	1.73	0.53
3:XE:73:LEU:HB2	3:XE:167:PHE:HB3	1.91	0.53
4:XO:88:ARG:HB3	33:2G:59:VAL:HG22	1.91	0.53
5:XP:42:ARG:HH21	9:0M:367:LEU:HD11	1.72	0.53
6:0A:257:SER:HB3	22:1y:141:ALA:CB	2.39	0.53
6:0:63:SER:HB2	6:0:122:PRO:HA	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:0D:402:ALA:O	7:0D:406:GLY:C	2.52	0.53
9:0L:473:VAL:HG21	9:0L:514:GLU:HA	1.91	0.53
9:0M:201:SER:OG	9:0M:219:THR:OG1	2.23	0.53
11:0U:219:ARG:HG2	11:0U:300:LEU:HD11	1.90	0.53
16:0l:258:PRO:HB3	16:0l:315:ARG:HE	1.73	0.53
21:0w:215:GLN:HG2	21:0w:219:GLU:OE2	2.09	0.53
25:1O:628:SER:HB3	25:1O:631:THR:HB	1.91	0.53
41:2o:183:LYS:HA	41:2o:186:ARG:HG2	1.89	0.53
44:2v:233:VAL:HG12	44:2v:264:THR:HG23	1.89	0.53
2:AG:155:GLU:HG3	2:AG:197:HIS:CD2	2.43	0.53
1:AJ:252:LYS:HZ3	2:AK:101:ASN:N	2.07	0.53
1:AL:237:THR:HG22	1:AL:250:LEU:HD21	1.89	0.53
2:AM:257:THR:HG21	1:AN:98:GLY:O	2.09	0.53
2:BA:189:LEU:HD13	2:BA:413:MET:HE1	1.91	0.53
2:BA:326:LYS:HE2	1:BB:208:TYR:CD2	2.43	0.53
2:BC:261:PRO:HA	1:BD:394:PHE:CE2	2.43	0.53
1:BD:100:ASN:HD21	1:BD:397:TRP:HB3	1.72	0.53
2:BE:340:THR:HG23	2:BE:341:ILE:HG23	1.91	0.53
1:BF:178:THR:HB	1:BF:181:GLU:HG3	1.90	0.53
2:BI:365:GLY:HA3	16:0l:809:THR:HG21	1.90	0.53
2:BM:212:LEU:HD21	2:BM:275:VAL:HG11	1.90	0.53
2:BM:313:MET:HG2	2:BM:344:VAL:HG21	1.89	0.53
1:CA:237:THR:HG22	1:CA:250:LEU:HD21	1.90	0.53
1:CK:190:HIS:CE1	1:CK:191:GLN:HG3	2.43	0.53
1:CK:236:VAL:HG13	1:CK:237:THR:HG23	1.89	0.53
2:D:307:PRO:HB3	2:D:312:TYR:CE1	2.44	0.53
1:DA:301:GLN:HE22	1:DA:303:ALA:HB3	1.74	0.53
1:DA:323:THR:HA	1:DA:326:VAL:HG22	1.91	0.53
1:DC:61:PRO:HD3	1:DC:84:LEU:HG	1.89	0.53
2:DD:255:PHE:HA	2:DD:258:ASN:ND2	2.24	0.53
1:DI:344:TRP:CD2	2:DJ:401:LYS:HD2	2.44	0.53
2:DJ:98:ASP:OD1	2:DJ:99:ALA:N	2.42	0.53
2:DL:306:ASP:OD1	2:DL:308:ARG:NH2	2.42	0.53
2:DL:311:LYS:HD3	2:DL:344:VAL:HA	1.90	0.53
1:EB:67:ASP:OD1	1:EB:68:LEU:N	2.42	0.53
1:EH:91:ILE:HD11	1:EH:119:VAL:HG21	1.90	0.53
1:EH:192:LEU:O	1:EH:196:SER:HB3	2.08	0.53
1:EJ:200:MET:HG3	1:EJ:268:MET:SD	2.48	0.53
2:EK:217:LEU:HD11	2:EK:368:LEU:HD23	1.91	0.53
1:EL:385:PHE:CE2	1:EL:412:GLU:HB3	2.43	0.53
1:F:252:LYS:NZ	71:FA:501:GTP:O1G	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FB:55:SER:HB3	1:GB:284:LEU:H	1.74	0.53
2:FC:212:LEU:HG	2:FC:275:VAL:HG11	1.91	0.53
2:FE:295:VAL:HG12	2:FE:377:MET:HE2	1.90	0.53
1:FL:311:LEU:N	1:FL:370:ASN:O	2.41	0.53
1:GB:73:MET:HA	1:GB:76:VAL:HG12	1.90	0.53
1:GB:318:ARG:HH11	1:GB:358:PRO:HG3	1.73	0.53
2:GI:3:GLU:HA	2:GI:51:THR:HA	1.90	0.53
2:GI:207:GLU:HG3	2:GI:304:LYS:HE3	1.90	0.53
1:GL:202:ILE:HD12	1:GL:300:MET:HE2	1.90	0.53
1:HD:371:ASN:OD1	1:HD:372:THR:N	2.41	0.53
1:HL:175:VAL:HG23	1:HL:205:GLU:OE2	2.08	0.53
1:HL:189:VAL:O	1:HL:193:VAL:HG23	2.07	0.53
1:HL:372:THR:O	1:HL:375:GLN:HG3	2.08	0.53
2:IA:31:GLN:HB3	38:2U:156:TYR:HD1	1.73	0.53
1:ID:362:LYS:NZ	1:ID:363:MET:HE3	2.24	0.53
1:IF:267:MET:HB3	1:IF:374:ILE:HD11	1.89	0.53
2:IG:406:HIS:HA	2:IG:409:VAL:HG22	1.90	0.53
2:II:395:PHE:HE2	2:II:422:ARG:HB2	1.74	0.53
2:IK:221:ARG:HD3	7:0D:226:LYS:HG3	1.91	0.53
2:J:122:ILE:HD13	2:J:157:LEU:HD21	1.90	0.53
2:J:315:CYS:HB3	2:J:377:MET:HE1	1.89	0.53
1:JC:112:LEU:O	1:JC:116:VAL:HG23	2.08	0.53
1:JE:204:ASN:OD1	69:JE:500:GDP:O2'	2.24	0.53
1:JG:8:GLN:CD	1:JG:17:GLY:HA3	2.34	0.53
1:JI:73:MET:O	1:JI:77:ARG:HG2	2.08	0.53
2:K:122:ILE:HG21	2:K:157:LEU:HD21	1.91	0.53
2:K:252:LEU:HA	2:K:255:PHE:CE1	2.43	0.53
1:KG:362:LYS:HE2	19:0r:226:MET:HE1	1.88	0.53
2:KH:170:THR:HG21	2:KH:194:LEU:HD21	1.89	0.53
2:KJ:4:ALA:HB1	2:KJ:136:MET:HE1	1.89	0.53
1:KK:121:ARG:HB3	35:2O:119:PHE:HE2	1.74	0.53
1:KK:267:MET:HE3	1:KK:371:ASN:HB3	1.91	0.53
1:LC:347:ASN:ND2	2:LD:178:SER:O	2.41	0.53
2:LD:153:LEU:O	2:LD:157:LEU:HD23	2.09	0.53
1:LE:8:GLN:HE22	1:LE:63:ALA:HB1	1.74	0.53
1:LE:336:LYS:HD3	1:LE:337:ASN:OD1	2.08	0.53
1:LE:389:PHE:CE1	1:LE:395:LEU:HD21	2.43	0.53
2:LJ:195:LEU:HD11	2:LJ:428:LEU:HD22	1.91	0.53
1:LK:221:THR:OG1	24:1J:26:GLU:OE2	2.24	0.53
1:LK:406:MET:SD	14:0d:99:TYR:OH	2.56	0.53
2:LL:137:VAL:HG11	2:LL:154:LEU:HD21	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LO:317:PHE:HB3	1:LO:321:MET:HE1	1.91	0.53
1:LO:414:ASN:HA	13:0a:92:LYS:HE3	1.91	0.53
1:M:269:GLY:HA3	1:M:299:MET:HG2	1.90	0.53
1:MD:268:MET:HG2	1:MD:368:ILE:HD13	1.90	0.53
1:MF:156:ARG:HG3	1:MF:195:ASN:HB3	1.91	0.53
2:MG:296:PHE:CE1	2:MG:377:MET:HE1	2.43	0.53
1:MH:246:LEU:HD21	2:MI:179:THR:HB	1.90	0.53
2:MI:335:ILE:HG23	2:MI:341:ILE:HD11	1.90	0.53
2:MI:359:PRO:HG2	40:2Z:362:PRO:HB2	1.91	0.53
2:MK:393:HIS:O	2:MK:397:LEU:HD23	2.09	0.53
2:MM:265:ILE:HG22	2:MM:380:ASN:HD21	1.74	0.53
1:MN:61:PRO:HD3	1:MN:84:LEU:HG	1.89	0.53
1:NB:105:HIS:ND1	1:NB:146:GLY:O	2.34	0.53
1:NB:198:GLU:HB2	1:NB:266:PHE:HE2	1.73	0.53
2:NK:229:ARG:HH11	2:NK:363:VAL:HG21	1.74	0.53
2:NK:388:PHE:HB3	2:NK:425:LEU:HD21	1.91	0.53
1:O:48:ASN:O	1:O:62:ARG:NH1	2.39	0.53
1:O:320:ARG:HB2	1:O:362:LYS:HE2	1.91	0.53
1:OB:130:LEU:O	1:OB:162:ARG:NH1	2.41	0.53
1:OF:230:ALA:HA	1:OF:233:MET:HB2	1.90	0.53
1:OF:276:ARG:HH21	41:2o:345:ARG:NH2	2.06	0.53
1:OL:292:GLN:HA	1:OL:295:ASP:HB2	1.90	0.53
2:OM:328:VAL:O	2:OM:332:ILE:HD12	2.09	0.53
2:PG:178:SER:HB2	2:PG:183:GLU:OE2	2.09	0.53
2:PI:32:PRO:HG2	28:1d:227:VAL:HG23	1.89	0.53
2:PI:108:TYR:CE1	2:PI:413:MET:HG3	2.44	0.53
1:PJ:334:GLN:NE2	1:PJ:349:ILE:HG12	2.23	0.53
2:PM:176:GLN:NE2	2:PM:207:GLU:HG2	2.23	0.53
2:PM:240:ALA:C	2:PM:356:ASN:HD21	2.17	0.53
2:Q:2:ARG:HB3	2:Q:242:LEU:HD13	1.91	0.53
1:QA:253:LEU:HD21	1:QA:316:LEU:HD21	1.91	0.53
2:QF:17:GLY:HA2	2:QF:20:CYS:SG	2.48	0.53
2:QF:329:ASN:HD21	1:QG:175:VAL:HG13	1.72	0.53
1:QI:11:GLN:HA	1:QI:72:THR:HG21	1.90	0.53
2:RD:262:TYR:HB2	2:RD:265:ILE:HG12	1.91	0.53
2:RH:251:ASP:H	2:RH:254:GLU:HG3	1.74	0.53
1:RI:21:TRP:CZ3	1:RI:50:TYR:HB3	2.43	0.53
1:RI:67:ASP:O	1:RI:92:PHE:HA	2.07	0.53
1:RK:204:ASN:ND2	69:RK:500:GDP:O2'	2.41	0.53
2:SC:269:LEU:HD13	2:SC:301:MET:HE1	1.91	0.53
1:SF:61:PRO:HD3	1:SF:84:LEU:HG	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:293:MET:HG3	1:T:367:PHE:HB2	1.89	0.53
1:T:323:THR:HG22	2:TA:223:SER:HA	1.89	0.53
1:TH:133:PHE:CD2	1:TH:164:MET:HE1	2.43	0.53
2:UC:84:ARG:HD3	53:3W:232:ARG:HG3	1.90	0.53
2:UG:301:MET:HE2	2:UG:303:THR:HB	1.90	0.53
1:UH:175:VAL:HG23	1:UH:205:GLU:OE2	2.08	0.53
1:UH:267:MET:SD	1:UH:299:MET:HE3	2.49	0.53
2:UI:204:LEU:HD22	2:UI:231:ILE:HD12	1.91	0.53
1:UJ:316:LEU:HD23	1:UJ:352:SER:HB2	1.89	0.53
2:UK:254:GLU:OE1	1:UL:99:ASN:HB2	2.08	0.53
1:UL:173:PRO:HA	1:UL:176:SER:HB2	1.91	0.53
1:UL:173:PRO:HD2	1:UL:380:ARG:CZ	2.39	0.53
2:VA:192:HIS:ND1	2:VA:424:ASP:OD2	2.41	0.53
2:VE:6:CYS:O	2:VE:65:CYS:HA	2.08	0.53
1:W:326:VAL:HG21	1:W:353:ILE:HD11	1.90	0.53
1:WB:267:MET:HE1	1:WB:373:CYS:SG	2.48	0.53
2:WC:270:THR:HG23	2:WC:302:LEU:HB2	1.91	0.53
2:WC:275:VAL:HG23	2:WC:368:LEU:HD11	1.91	0.53
2:WE:335:ILE:HD12	2:WE:338:LYS:HD3	1.91	0.53
1:WF:113:ILE:HG13	1:WF:117:LEU:HD23	1.91	0.53
1:WH:9:ALA:HB2	1:WH:66:MET:HE3	1.91	0.53
2:WM:39:ASP:OD1	2:WM:40:LYS:N	2.42	0.53
2:WM:252:LEU:HA	2:WM:255:PHE:CE1	2.43	0.53
3:XC:54:VAL:HA	3:XC:158:ALA:HB3	1.89	0.53
3:XD:1:MET:N	3:XD:68:THR:O	2.40	0.53
3:XE:37:VAL:O	3:XE:45:SER:HA	2.09	0.53
5:XP:27:GLU:HB2	5:XP:32:PRO:HA	1.90	0.53
6:0A:49:VAL:HG23	6:0A:130:ILE:HG23	1.90	0.53
8:0G:340:ARG:HD2	8:0I:102:GLU:OE2	2.08	0.53
8:0G:451:LEU:HA	8:0G:454:ILE:HG22	1.90	0.53
9:0M:438:VAL:HG12	9:0M:474:ILE:HD11	1.91	0.53
10:0R:128:ASP:OD1	10:0S:459:ARG:NH2	2.42	0.53
17:0n:384:LYS:HA	17:0n:387:GLU:HG3	1.90	0.53
23:1A:133:TRP:NE1	23:1A:137:ASP:OD1	2.42	0.53
23:1E:336:MET:HG2	29:1k:180:LEU:HD23	1.90	0.53
24:1K:647:ARG:HH22	24:1K:648:MET:CE	2.21	0.53
38:2U:236:PRO:HA	38:2U:239:LEU:HD23	1.91	0.53
40:2Z:127:TRP:NE1	40:2Z:131:GLU:OE2	2.41	0.53
41:2k:311:GLN:O	41:2k:315:ARG:N	2.32	0.53
44:2w:210:ILE:HD11	44:2w:384:GLY:HA2	1.91	0.53
49:3Q:194:PHE:CD1	49:3Q:222:HIS:HA	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:3Z:377:ALA:HA	54:3Z:382:MET:HE3	1.91	0.53
54:3a:80:ILE:HA	54:3a:83:VAL:HG22	1.90	0.53
58:3m:154:ARG:O	58:3m:158:ILE:HG12	2.09	0.53
68:5S:91:CYS:SG	68:5S:93:LEU:N	2.82	0.53
2:AA:228:ASN:OD1	71:AA:501:GTP:N1	2.39	0.53
2:AA:335:ILE:HG23	2:AA:341:ILE:HD11	1.89	0.53
1:AF:5:VAL:HG23	1:AF:62:ARG:HG2	1.90	0.53
1:AJ:133:PHE:CD2	1:AJ:155:LEU:HD23	2.43	0.53
1:AJ:274:THR:OG1	1:AJ:278:SER:OG	2.26	0.53
2:AK:104:ALA:HB2	2:AK:413:MET:SD	2.49	0.53
2:AK:349:THR:HG23	1:AL:384:GLN:NE2	2.24	0.53
1:AL:128:ASP:OD1	1:AL:129:CYS:N	2.40	0.53
2:AM:237:SER:HA	2:AM:320:ARG:HD2	1.90	0.53
1:AN:337:ASN:ND2	4:XR:102:CYS:SG	2.81	0.53
2:BE:326:LYS:NZ	1:BF:220:PRO:O	2.42	0.53
2:BG:26:LEU:HD21	2:BG:363:VAL:HG23	1.90	0.53
2:BM:6:CYS:O	2:BM:65:CYS:HA	2.09	0.53
1:CA:344:TRP:HB3	1:CA:430:VAL:HG12	1.90	0.53
1:CG:289:LEU:O	1:CG:293:MET:HG3	2.09	0.53
1:CI:119:VAL:O	1:CI:123:GLU:HG2	2.09	0.53
2:CL:237:SER:HA	2:CL:320:ARG:HD2	1.90	0.53
1:DA:152:ILE:HG22	1:DA:195:ASN:HB3	1.90	0.53
1:DI:133:PHE:CD1	1:DI:164:MET:HE1	2.40	0.53
2:DL:395:PHE:HD2	2:DL:422:ARG:HD3	1.74	0.53
1:DM:165:MET:HE2	1:DM:198:GLU:OE2	2.09	0.53
1:EB:150:LEU:O	1:EB:154:LYS:HG2	2.08	0.53
1:EB:309:ARG:NH2	1:EB:343:GLU:OE1	2.40	0.53
2:EC:70:LEU:HD12	2:EC:110:ILE:HG22	1.91	0.53
1:EF:248:SER:HA	1:EF:252:LYS:HG2	1.90	0.53
2:EG:172:TYR:HE2	2:EG:388:PHE:HE1	1.57	0.53
1:EH:234:SER:O	1:EH:241:ARG:NH1	2.41	0.53
1:FF:290:THR:HA	1:FF:293:MET:HE2	1.91	0.53
1:FF:324:LYS:CD	2:FG:222:PRO:HD2	2.38	0.53
1:FL:99:ASN:HA	1:FL:142:GLY:H	1.72	0.53
1:GD:8:GLN:HG3	1:GD:65:LEU:HD23	1.90	0.53
1:GF:202:ILE:HD12	1:GF:300:MET:HE2	1.91	0.53
2:GG:210:TYR:CE1	2:GG:227:VAL:HG11	2.43	0.53
1:H:3:GLU:HG3	1:H:49:VAL:HA	1.89	0.53
2:HA:8:HIS:CE1	2:HA:17:GLY:HA3	2.43	0.53
2:HA:145:THR:OG1	71:HA:501:GTP:O2B	2.27	0.53
1:HB:101:TRP:CE3	1:HB:403:MET:HE1	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HD:165:MET:HE1	1:HD:200:MET:CE	2.38	0.53
1:HD:215:LEU:HD11	1:HD:273:LEU:HD12	1.90	0.53
1:HF:173:PRO:HA	1:HF:176:SER:HB2	1.90	0.53
1:HF:350:LYS:HG2	2:HG:179:THR:O	2.09	0.53
1:HH:207:LEU:HB3	1:HH:225:LEU:HD22	1.90	0.53
1:HL:133:PHE:HB2	1:HL:164:MET:HE1	1.90	0.53
2:HM:174:SER:HB3	2:HM:177:VAL:O	2.08	0.53
2:IC:392:ASP:OD1	2:IC:393:HIS:N	2.41	0.53
2:IG:346:TRP:CD1	1:IH:391:ARG:HG3	2.44	0.53
2:IK:390:ARG:HG3	2:IK:394:LYS:HZ1	1.73	0.53
1:JA:11:GLN:HA	1:JA:72:THR:HG21	1.90	0.53
2:JB:234:VAL:HG21	2:JB:302:LEU:HD22	1.89	0.53
1:JI:371:ASN:OD1	1:JI:372:THR:N	2.40	0.53
2:JN:132:LEU:HG	2:JN:164:LYS:HE2	1.90	0.53
1:KA:1:MET:HE2	2:KB:72:PRO:HG3	1.91	0.53
2:KD:211:ASP:O	2:KD:214:ARG:HG2	2.08	0.53
1:KG:232:VAL:HG13	1:KG:268:MET:HE2	1.90	0.53
2:KH:58:ALA:HB1	23:1E:182:GLN:HB3	1.90	0.53
1:KM:301:GLN:CD	1:KM:377:MET:HE1	2.33	0.53
1:KM:350:LYS:HD2	2:KN:179:THR:HG22	1.89	0.53
2:KN:21:TRP:CZ2	2:KN:65:CYS:HB3	2.44	0.53
2:L:326:LYS:NZ	1:LA:208:TYR:CG	2.76	0.53
2:L:328:VAL:O	2:L:332:ILE:HG12	2.08	0.53
1:LA:117:LEU:HD12	1:LA:121:ARG:HH21	1.73	0.53
1:LA:361:LEU:HD13	1:LA:364:SER:HB2	1.89	0.53
2:LF:180:ALA:HB3	2:LF:183:GLU:HB2	1.91	0.53
2:LF:209:ILE:HG21	2:LF:227:VAL:HG13	1.89	0.53
1:LG:67:ASP:HB2	1:LG:73:MET:HE3	1.91	0.53
2:LL:309:HIS:CD2	31:1s:35:ARG:HH12	2.26	0.53
1:LO:173:PRO:HA	1:LO:176:SER:HB2	1.90	0.53
1:LO:332:ASN:ND2	35:2O:188:GLY:O	2.42	0.53
1:LO:371:ASN:OD1	1:LO:373:CYS:N	2.39	0.53
1:M:16:ILE:HG12	1:M:229:VAL:HG21	1.91	0.53
2:MM:237:SER:HA	2:MM:320:ARG:HD2	1.91	0.53
2:MM:257:THR:HG21	1:MN:99:ASN:HB3	1.91	0.53
1:MN:36:TYR:OH	1:MN:40:SER:O	2.27	0.53
1:NB:134:GLN:HE21	1:NB:167:PHE:HE2	1.56	0.53
1:NB:262:ARG:HD2	1:NB:421:GLU:HG2	1.90	0.53
1:ND:202:ILE:HG23	1:ND:207:LEU:HD21	1.91	0.53
1:NJ:351:SER:O	2:NK:179:THR:OG1	2.26	0.53
2:NM:21:TRP:CZ2	2:NM:65:CYS:HB3	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OB:40:SER:C	31:1q:243:ILE:HD11	2.34	0.53
2:OG:328:VAL:O	2:OG:332:ILE:HG12	2.08	0.53
2:OI:209:ILE:HG21	2:OI:227:VAL:HG13	1.90	0.53
2:OK:195:LEU:HD12	2:OK:266:HIS:CE1	2.44	0.53
2:PC:195:LEU:HD11	2:PC:428:LEU:HD22	1.90	0.53
2:PC:438:GLU:O	56:3d:82:LEU:N	2.42	0.53
1:PF:210:ILE:O	1:PF:214:THR:OG1	2.20	0.53
1:PJ:2:ARG:N	1:PJ:129:CYS:O	2.41	0.53
1:PL:133:PHE:HB2	1:PL:164:MET:HE1	1.91	0.53
1:QA:128:ASP:OD1	1:QA:129:CYS:N	2.39	0.53
1:QE:67:ASP:O	1:QE:92:PHE:HA	2.08	0.53
2:QF:212:LEU:HD13	2:QF:300:GLY:HA2	1.91	0.53
1:QI:251:ARG:NH2	2:QJ:97:GLU:OE2	2.41	0.53
2:QJ:396:ASP:HB3	2:QJ:422:ARG:NH1	2.20	0.53
2:R:254:GLU:HG2	1:RA:98:GLY:HA2	1.90	0.53
1:RC:178:THR:HG22	1:RC:180:VAL:H	1.72	0.53
2:RD:22:GLU:OE2	2:RD:229:ARG:NH1	2.42	0.53
2:RD:102:ASN:HB2	2:RD:105:ARG:HB3	1.91	0.53
2:RD:180:ALA:HB3	2:RD:183:GLU:HB3	1.90	0.53
1:RE:221:THR:HG22	1:RE:222:PHE:N	2.24	0.53
2:RH:127:ASP:OD1	2:RH:128:ASN:N	2.42	0.53
2:RJ:265:ILE:HG21	2:RJ:313:MET:HE1	1.90	0.53
1:RK:21:TRP:CH2	1:RK:50:TYR:HB3	2.44	0.53
2:RL:21:TRP:CZ2	2:RL:65:CYS:HB3	2.43	0.53
1:SB:48:ASN:O	1:SB:62:ARG:NH1	2.30	0.53
1:SF:322:SER:OG	1:SF:325:GLU:OE1	2.14	0.53
1:SH:346:PRO:HD2	2:SI:398:MET:HG3	1.91	0.53
2:SI:167:LEU:HD23	2:SI:200:VAL:HB	1.91	0.53
2:SI:226:ASN:ND2	2:SI:367:ASP:OD2	2.41	0.53
1:T:66:MET:SD	1:T:147:MET:HE1	2.48	0.53
1:T:144:GLY:N	69:T:500:GDP:O2B	2.42	0.53
1:TB:343:GLU:N	1:TB:343:GLU:OE1	2.41	0.53
2:TC:2:ARG:NH2	2:TC:50:ASN:OD1	2.42	0.53
2:TC:352:LYS:HG2	1:TD:178:THR:HA	1.91	0.53
2:TG:176:GLN:HG2	2:TG:207:GLU:OE2	2.09	0.53
1:TL:31:ASP:HB3	1:TL:32:PRO:HD2	1.91	0.53
2:UA:195:LEU:HD22	2:UA:428:LEU:HD21	1.89	0.53
1:UB:243:PRO:HG2	53:3W:216:THR:HG21	1.91	0.53
1:UF:10:GLY:HA2	1:UF:143:THR:HG23	1.90	0.53
1:V:46:ARG:HH21	2:VA:72:PRO:HB2	1.74	0.53
1:VD:328:GLU:OE2	1:VD:332:ASN:ND2	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VF:235:GLY:HA3	1:VF:366:THR:HG21	1.91	0.53
1:VF:252:LYS:HG3	2:VG:100:ALA:HA	1.91	0.53
1:VH:104:GLY:O	1:VH:147:MET:HB3	2.09	0.53
1:VJ:53:GLU:OE1	9:0N:418:LYS:NZ	2.28	0.53
2:VK:349:THR:HG21	1:VL:182:PRO:HD3	1.90	0.53
1:VL:227:HIS:HD1	53:3X:53:PRO:HD2	1.73	0.53
1:W:66:MET:HE2	1:W:147:MET:HG2	1.90	0.53
1:WB:347:ASN:C	1:WB:347:ASN:HD22	2.17	0.53
2:WE:288:VAL:HB	2:WE:327:ASP:HB3	1.90	0.53
2:WG:51:THR:HG21	2:WG:243:ARG:HG2	1.91	0.53
1:WJ:252:LYS:HD2	2:WK:101:ASN:HD22	1.74	0.53
3:XB:94:LEU:HB2	3:XB:152:LEU:HD11	1.90	0.53
3:XD:92:THR:HG22	3:XD:102:ARG:CG	2.39	0.53
3:XF:49:ILE:HG22	3:XF:158:ALA:HA	1.90	0.53
5:XP:210:MET:O	5:XP:214:THR:HG23	2.08	0.53
6:0A:231:LEU:HD22	33:2I:288:PHE:HD2	1.73	0.53
7:0C:349:VAL:HA	17:0m:58:GLN:HE22	1.74	0.53
8:0I:154:ARG:HB3	8:0I:154:ARG:NH1	2.24	0.53
9:0L:428:VAL:HG12	9:0L:439:THR:HG22	1.90	0.53
9:0L:431:ASP:OD2	9:0L:436:ARG:HB3	2.09	0.53
9:0L:502:ASN:ND2	9:0L:539:CYS:SG	2.82	0.53
9:0M:348:ILE:HG23	9:0M:372:LEU:HD11	1.91	0.53
11:0U:107:ALA:O	11:0U:111:ILE:HG12	2.08	0.53
13:0Y:120:LYS:NZ	13:0Y:122:LYS:O	2.42	0.53
16:0l:540:GLN:HA	16:0l:543:GLU:HG2	1.89	0.53
16:0k:143:ILE:HG21	16:0k:150:LEU:HD11	1.91	0.53
16:0k:438:ARG:HA	16:0k:441:ARG:HB2	1.90	0.53
24:1I:564:ASP:OD1	24:1I:565:VAL:N	2.41	0.53
27:1S:282:MET:HE3	27:1S:308:PHE:HE1	1.73	0.53
41:2o:408:LYS:HE3	41:2o:412:ARG:NH1	2.23	0.53
52:3U:389:GLN:O	52:3U:393:THR:HG23	2.09	0.53
64:5B:213:LEU:HB2	65:5G:212:LEU:HD21	1.91	0.53
64:5C:221:ARG:NH1	64:5C:225:GLU:HG3	2.20	0.53
67:5P:60:ILE:HG22	67:5P:62:GLY:H	1.73	0.53
1:A:159:TYR:HB3	1:A:162:ARG:HG3	1.90	0.53
1:AD:66:MET:SD	1:AD:151:LEU:HD13	2.49	0.53
2:AI:251:ASP:H	2:AI:254:GLU:HG3	1.74	0.53
1:AL:42:LEU:HD12	1:AL:356:ILE:HD11	1.91	0.53
1:AL:318:ARG:HE	1:AL:358:PRO:HG3	1.74	0.53
2:AM:251:ASP:OD1	2:AM:254:GLU:HG2	2.08	0.53
2:AM:389:ALA:HA	2:AM:392:ASP:OD1	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:229:VAL:HG12	1:B:233:MET:HE3	1.89	0.53
2:BA:331:ALA:O	2:BA:335:ILE:HG12	2.09	0.53
2:BC:408:TYR:HB3	2:BC:413:MET:HE2	1.91	0.53
2:BI:91:GLN:H	2:BI:121:ARG:NH1	2.04	0.53
2:C:406:HIS:HA	2:C:409:VAL:HG22	1.91	0.53
1:CG:164:MET:HB3	1:CG:197:ASP:H	1.73	0.53
2:CJ:340:THR:HG23	2:CJ:341:ILE:HG23	1.91	0.53
1:DE:272:PRO:HG3	1:DE:364:SER:HA	1.89	0.53
2:DJ:195:LEU:HD22	2:DJ:428:LEU:HD22	1.90	0.53
1:DK:189:VAL:HG21	1:DK:415:MET:SD	2.49	0.53
1:DM:52:ASP:HB2	1:DM:62:ARG:HH21	1.73	0.53
2:EA:137:VAL:HG21	2:EA:154:LEU:HD21	1.89	0.53
2:EE:301:MET:HE1	2:EE:307:PRO:HG3	1.91	0.53
2:EE:301:MET:HG2	2:EE:303:THR:H	1.74	0.53
2:EG:318:MET:O	2:EG:375:VAL:HA	2.09	0.53
1:EH:159:TYR:HB3	1:EH:162:ARG:HG3	1.91	0.53
2:EI:392:ASP:OD1	2:EI:393:HIS:N	2.41	0.53
2:EK:334:THR:O	2:EK:338:LYS:HG2	2.09	0.53
1:F:165:MET:SD	1:F:200:MET:HE2	2.49	0.53
1:F:294:PHE:HE2	1:F:330:MET:HE1	1.73	0.53
1:FB:10:GLY:O	1:FB:14:ASN:ND2	2.40	0.53
2:FI:142:GLY:HA2	2:FI:183:GLU:HG3	1.91	0.53
2:FI:155:GLU:HA	2:FI:197:HIS:ND1	2.23	0.53
2:FK:274:PRO:HD3	2:FK:291:ILE:HD11	1.91	0.53
1:FL:211:CYS:HB3	1:FL:220:PRO:HG2	1.89	0.53
1:GD:12:CYS:O	1:GD:16:ILE:HG12	2.08	0.53
1:GF:51:PHE:HB3	1:GF:59:TYR:HB3	1.91	0.53
2:GG:142:GLY:CA	2:GG:183:GLU:HG3	2.39	0.53
2:GK:212:LEU:HD13	2:GK:300:GLY:HA2	1.91	0.53
2:GK:231:ILE:O	2:GK:235:VAL:HG23	2.08	0.53
2:GK:377:MET:SD	2:GK:379:ALA:HB2	2.49	0.53
1:HB:306:ARG:NE	65:5G:132:GLU:OE2	2.35	0.53
1:HB:406:MET:O	1:HB:409:THR:OG1	2.26	0.53
2:HK:89:PRO:HG2	2:IK:280:LYS:HG2	1.90	0.53
2:HK:293:ASN:O	2:HK:297:GLU:HG2	2.09	0.53
2:HK:372:GLN:HB2	2:HK:373:ARG:HE	1.73	0.53
1:I:252:LYS:HD2	2:IA:100:ALA:HA	1.91	0.53
2:IA:377:MET:HE3	2:IA:379:ALA:HB2	1.89	0.53
1:IB:150:LEU:O	1:IB:154:LYS:HG2	2.09	0.53
2:IC:250:VAL:HG23	2:IC:254:GLU:HB2	1.91	0.53
2:II:237:SER:HA	2:II:320:ARG:HD2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IJ:156:ARG:NH1	1:IJ:160:PRO:O	2.42	0.53
2:IK:320:ARG:HE	2:IK:360:PRO:CA	2.22	0.53
1:IL:324:LYS:HE3	2:IM:210:TYR:CG	2.44	0.53
1:IL:346:PRO:HD3	2:IM:397:LEU:HD11	1.90	0.53
2:IM:51:THR:HG23	2:IM:52:PHE:CD1	2.43	0.53
2:IM:244:PHE:O	2:IM:356:ASN:ND2	2.42	0.53
2:JB:301:MET:HE1	2:JB:307:PRO:HG3	1.91	0.53
2:JD:150:GLY:O	2:JD:154:LEU:HD23	2.09	0.53
1:JE:173:PRO:HD2	1:JE:380:ARG:NH1	2.23	0.53
2:JH:420:GLU:HA	2:JH:423:GLU:HG2	1.90	0.53
2:JJ:325:PRO:HA	2:JJ:328:VAL:HG22	1.91	0.53
1:JK:233:MET:O	1:JK:236:VAL:HG12	2.08	0.53
1:KK:254:ALA:O	1:KK:258:VAL:HG22	2.08	0.53
2:KN:101:ASN:HA	2:KN:144:GLY:H	1.74	0.53
2:L:39:ASP:CG	44:2v:339:GLN:HE21	2.16	0.53
2:LD:122:ILE:HG21	2:LD:157:LEU:HD11	1.90	0.53
2:LF:121:ARG:HA	2:LF:124:LYS:HZ1	1.74	0.53
1:LG:110:ALA:HB3	33:2G:257:ARG:HD2	1.89	0.53
2:LH:103:TYR:HB3	2:LH:408:TYR:HE2	1.74	0.53
1:LI:117:LEU:HD12	1:LI:121:ARG:HH21	1.74	0.53
1:LI:200:MET:HE3	1:LI:368:ILE:HG23	1.90	0.53
1:LK:311:LEU:HA	1:LK:342:ILE:HD12	1.90	0.53
1:LM:5:VAL:HG23	1:LM:62:ARG:HG2	1.91	0.53
1:LM:100:ASN:HB3	1:LM:103:LYS:HG2	1.91	0.53
1:M:314:SER:HB3	1:M:368:ILE:HB	1.90	0.53
1:M:323:THR:HG21	2:MA:224:TYR:CZ	2.44	0.53
2:MA:295:VAL:HG21	2:MA:375:VAL:HG13	1.91	0.53
1:MB:10:GLY:O	1:MB:14:ASN:ND2	2.42	0.53
1:MB:113:ILE:HG13	1:MB:117:LEU:HD23	1.91	0.53
2:MC:237:SER:HA	2:MC:320:ARG:HD2	1.89	0.53
2:MC:312:TYR:HE2	2:MC:341:ILE:HD12	1.73	0.53
2:MG:163:LYS:HB2	32:2C:61:ARG:CG	2.39	0.53
2:MG:431:ASP:OD1	2:MG:432:TYR:N	2.41	0.53
1:MH:305:PRO:HG2	1:MH:306:ARG:HH21	1.73	0.53
1:MN:345:ILE:HG23	1:MN:348:ASN:HD21	1.73	0.53
1:N:324:LYS:HZ1	2:NA:221:ARG:HA	1.74	0.53
2:NC:155:GLU:HG2	2:NC:197:HIS:CD2	2.44	0.53
1:ND:299:MET:HE3	1:ND:299:MET:HA	1.90	0.53
2:NK:318:MET:HE1	2:NK:378:ILE:HG12	1.91	0.53
1:NL:19:LYS:HG3	1:NL:226:ASN:HB2	1.91	0.53
2:NM:173:PRO:CG	2:NM:183:GLU:HB3	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OJ:66:MET:HE2	1:OJ:116:VAL:HG21	1.90	0.53
2:OK:335:ILE:HA	2:OK:338:LYS:HZ2	1.72	0.53
2:OM:175:PRO:HG3	2:OM:390:ARG:NH2	2.24	0.53
2:PE:326:LYS:HZ1	1:PF:220:PRO:N	2.07	0.53
1:PH:156:ARG:HH22	1:PH:197:ASP:CG	2.17	0.53
1:PL:67:ASP:OD1	1:PL:69:GLU:N	2.41	0.53
1:QI:171:PRO:O	1:QI:380:ARG:NH2	2.42	0.53
2:QJ:53:PHE:HB3	2:QJ:61:HIS:HB3	1.91	0.53
1:RA:200:MET:HB3	1:RA:268:MET:SD	2.49	0.53
1:RE:313:ALA:HB3	1:RE:349:ILE:HG12	1.91	0.53
1:RG:6:SER:O	1:RG:63:ALA:HA	2.09	0.53
2:RH:56:THR:HA	2:SG:285:GLN:HB2	1.91	0.53
2:RL:317:LEU:HA	2:RL:377:MET:HE1	1.91	0.53
1:S:207:LEU:HB3	1:S:225:LEU:HD22	1.90	0.53
1:S:236:VAL:HG13	1:S:237:THR:HG23	1.90	0.53
1:S:311:LEU:HA	1:S:342:ILE:HD12	1.90	0.53
2:SE:79:ARG:NH2	2:SE:92:LEU:O	2.42	0.53
2:SG:137:VAL:HG21	2:SG:154:LEU:HD21	1.90	0.53
2:SG:338:LYS:HG2	2:SG:340:THR:H	1.74	0.53
2:SI:6:CYS:O	2:SI:65:CYS:HA	2.08	0.53
2:SI:269:LEU:HD21	2:SI:384:ILE:HG12	1.91	0.53
2:SI:345:ASP:OD1	2:SI:346:TRP:N	2.42	0.53
1:SJ:313:ALA:HB1	1:SJ:367:PHE:HE2	1.73	0.53
1:SJ:323:THR:HG21	2:SK:224:TYR:CZ	2.44	0.53
2:TC:173:PRO:HG3	2:TC:183:GLU:HG2	1.90	0.53
1:TJ:260:PHE:HB2	1:TJ:263:LEU:HD23	1.91	0.53
2:UG:251:ASP:H	2:UG:254:GLU:HG3	1.74	0.53
2:UK:79:ARG:O	2:UK:84:ARG:HG2	2.09	0.53
2:VC:301:MET:HE1	2:VC:307:PRO:HG3	1.91	0.53
1:VD:27:GLU:OE1	1:VD:241:ARG:NH1	2.42	0.53
2:VE:251:ASP:H	2:VE:254:GLU:HG3	1.73	0.53
2:VG:21:TRP:CZ2	2:VG:65:CYS:HB3	2.43	0.53
2:VI:254:GLU:O	2:VI:258:ASN:ND2	2.42	0.53
2:VK:96:LYS:NZ	2:VK:97:GLU:OE2	2.42	0.53
2:VK:245:ASP:HA	2:VK:249:ASN:HD21	1.73	0.53
1:VL:60:VAL:HG11	1:VL:86:ARG:HG3	1.91	0.53
2:WG:195:LEU:HD21	2:WG:428:LEU:HD13	1.90	0.53
1:WJ:316:LEU:HD23	1:WJ:352:SER:OG	2.09	0.53
2:WK:322:ASP:OD2	2:WK:373:ARG:NH2	2.39	0.53
2:WK:402:ARG:HD3	2:WK:405:VAL:HG21	1.91	0.53
2:WM:127:ASP:HB3	4:XR:172:PRO:HG3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:XB:135:ASN:HB3	3:XB:138:ASP:HB3	1.90	0.53
3:XC:74:PRO:HD2	3:XC:169:ASP:HA	1.91	0.53
6:0:56:GLU:HB3	6:0:60:LYS:NZ	2.23	0.53
9:0N:248:LEU:HD13	9:0N:302:LYS:NZ	2.24	0.53
12:0W:40:LEU:HD13	12:0W:50:LEU:HD12	1.89	0.53
20:0t:173:LEU:HD22	20:0t:244:GLY:HA3	1.91	0.53
24:1K:579:GLU:OE1	24:1K:582:ILE:HD11	2.08	0.53
25:1O:689:ARG:HB2	25:1O:747:LEU:HD22	1.91	0.53
28:1d:192:PRO:HD2	28:1d:194:LYS:NZ	2.23	0.53
31:1s:254:ARG:HE	31:1s:255:LEU:HD12	1.74	0.53
32:2B:196:ASP:OD1	32:2B:200:CYS:N	2.42	0.53
32:2C:136:MET:HE2	32:2C:140:TYR:HE2	1.74	0.53
33:2F:92:TYR:CE1	33:2F:112:TYR:HB3	2.44	0.53
33:2F:250:GLU:HA	33:2F:253:MET:HB2	1.90	0.53
36:2Q:2:LEU:HD11	36:2Q:80:HIS:HB3	1.90	0.53
39:2X:12:THR:HG22	39:2X:14:ASN:H	1.72	0.53
39:2X:34:ILE:HD13	39:2X:37:ARG:HH21	1.73	0.53
42:2r:186:VAL:HG21	42:2r:240:VAL:HG21	1.90	0.53
44:2v:385:LEU:HD21	44:2v:398:ILE:HG21	1.90	0.53
45:2z:152:ASN:HA	45:2z:155:ILE:HG12	1.90	0.53
28:4W:146:LYS:NZ	28:4W:150:GLU:OE2	2.37	0.53
66:5L:249:LEU:HB3	66:5L:250:TRP:CE3	2.44	0.53
67:5O:32:GLY:HA2	67:5O:103:PHE:CD1	2.44	0.53
1:A:257:LEU:HD23	1:A:312:THR:HG22	1.91	0.53
1:AB:313:ALA:HB1	1:AB:367:PHE:CE1	2.44	0.53
1:AD:67:ASP:OD1	1:AD:68:LEU:N	2.42	0.53
1:AH:350:LYS:HD2	1:AH:351:SER:N	2.24	0.53
1:BF:255:VAL:HG23	2:BG:407:TRP:CG	2.44	0.53
1:BJ:121:ARG:O	1:BJ:125:GLU:HG3	2.08	0.53
1:BL:276:ARG:HG3	24:1J:140:GLY:HA3	1.90	0.53
1:BN:268:MET:O	1:BN:300:MET:HG2	2.09	0.53
1:CA:20:PHE:HA	1:CA:230:ALA:HB1	1.90	0.53
2:CD:220:GLU:HB2	16:0k:420:ASP:HB3	1.89	0.53
2:CF:69:ASP:OD1	2:CF:70:LEU:N	2.42	0.53
2:CF:288:VAL:HB	2:CF:327:ASP:HB3	1.91	0.53
1:CG:91:ILE:HD11	1:CG:119:VAL:HG21	1.91	0.53
1:CI:324:LYS:HG3	2:CJ:221:ARG:HA	1.89	0.53
2:CL:372:GLN:NE2	24:1K:244:THR:HA	2.23	0.53
2:D:75:VAL:O	2:D:79:ARG:HG3	2.09	0.53
1:DK:337:ASN:HB3	1:DK:340:TYR:HD2	1.73	0.53
2:EA:259:LEU:HD21	2:EA:316:CYS:HB2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EC:276:VAL:HG13	2:EC:369:ALA:HB3	1.90	0.53
2:EE:27:GLU:OE2	2:EE:243:ARG:NH1	2.32	0.53
1:EF:73:MET:HG3	1:EF:92:PHE:HB3	1.90	0.53
2:FE:195:LEU:HD13	2:FE:267:PHE:HE1	1.74	0.53
1:FF:10:GLY:HA2	1:FF:143:THR:HG23	1.91	0.53
1:FF:134:GLN:HA	1:FF:165:MET:HB2	1.91	0.53
2:FI:223:SER:OG	2:FI:224:TYR:N	2.42	0.53
1:FJ:344:TRP:HB3	1:FJ:430:VAL:HG12	1.91	0.53
2:FK:346:TRP:CD1	1:FL:391:ARG:HG2	2.44	0.53
2:GC:117:LEU:O	2:GC:121:ARG:HG2	2.08	0.53
1:GD:48:ASN:O	1:GD:62:ARG:NH2	2.42	0.53
1:GF:254:ALA:O	1:GF:258:VAL:HG22	2.09	0.53
2:GI:345:ASP:OD1	2:GI:346:TRP:N	2.41	0.53
2:HA:222:PRO:HA	2:HA:226:ASN:HD22	1.72	0.53
1:HB:306:ARG:HE	65:5G:132:GLU:CD	2.16	0.53
2:HI:364:PRO:HB3	17:0n:211:ILE:HD11	1.90	0.53
1:HL:61:PRO:HD3	1:HL:84:LEU:HG	1.91	0.53
1:I:346:PRO:HG3	2:IA:394:LYS:HG3	1.91	0.53
2:IA:185:TYR:HE2	2:IA:404:PHE:HB2	1.73	0.53
2:IA:357:TYR:OH	38:2U:171:GLU:OE2	2.20	0.53
2:IE:90:GLU:HG2	2:IE:91:GLN:NE2	2.24	0.53
2:IG:237:SER:HA	2:IG:320:ARG:HD2	1.90	0.53
1:IH:148:GLY:O	1:IH:152:ILE:HG12	2.08	0.53
2:IK:133:GLN:O	2:IK:165:SER:OG	2.27	0.53
1:IL:326:VAL:O	1:IL:330:MET:HG2	2.08	0.53
2:IM:406:HIS:HA	2:IM:409:VAL:HG22	1.90	0.53
1:JG:383:GLU:HA	1:JG:386:THR:HG22	1.90	0.53
2:JH:108:TYR:HA	2:JH:112:LYS:NZ	2.24	0.53
2:JH:326:LYS:HZ2	1:JI:212:PHE:HE1	1.57	0.53
1:JM:413:SER:HB2	60:3t:45:VAL:HG12	1.91	0.53
2:K:139:HIS:CE1	2:K:170:THR:HG22	2.44	0.53
2:KD:167:LEU:HD11	2:KD:255:PHE:HZ	1.74	0.53
2:KF:21:TRP:CZ2	2:KF:65:CYS:HB3	2.44	0.53
2:KH:177:VAL:N	2:KH:207:GLU:OE2	2.41	0.53
1:LA:139:LEU:HG	1:LA:168:SER:HB2	1.91	0.53
1:LA:149:THR:HA	1:LA:152:ILE:HG22	1.90	0.53
1:LA:202:ILE:HD13	1:LA:268:MET:HG2	1.91	0.53
1:LA:406:MET:HE3	6:0:129:THR:HG22	1.91	0.53
2:LF:252:LEU:HD13	2:LF:255:PHE:HE2	1.73	0.53
1:LG:161:ASP:OD2	13:0Z:67:HIS:ND1	2.31	0.53
2:LH:26:LEU:HD12	2:LH:363:VAL:HG12	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LJ:204:LEU:HD22	2:LJ:231:ILE:HD12	1.91	0.53
2:LJ:268:VAL:HG23	2:LJ:379:ALA:C	2.34	0.53
2:LL:209:ILE:HG12	2:LL:302:LEU:HD22	1.90	0.53
1:M:326:VAL:HG11	1:M:353:ILE:HD11	1.91	0.53
1:MB:236:VAL:HG23	1:MB:237:THR:HG23	1.90	0.53
1:MD:309:ARG:H	1:MD:372:THR:HG1	1.54	0.53
1:MF:311:LEU:HD23	1:MF:342:ILE:HD13	1.91	0.53
1:N:41:ASP:OD2	41:2n:152:GLU:N	2.42	0.53
2:NA:223:SER:OG	2:NA:224:TYR:N	2.42	0.53
1:NB:323:THR:HG22	2:NC:223:SER:HA	1.90	0.53
2:NC:211:ASP:HB3	2:NC:215:ARG:NH1	2.24	0.53
1:NF:166:THR:O	1:NF:200:MET:HB2	2.09	0.53
2:NK:320:ARG:HD3	2:NK:360:PRO:HG3	1.89	0.53
1:NL:34:GLY:HA3	1:NL:58:ARG:HG3	1.91	0.53
2:OA:67:PHE:HB2	2:OA:92:LEU:HD12	1.91	0.53
2:OC:287:SER:O	2:OC:291:ILE:HG13	2.08	0.53
1:OD:189:VAL:O	1:OD:193:VAL:HG23	2.09	0.53
1:OD:248:SER:HA	1:OD:252:LYS:HD2	1.91	0.53
2:OE:406:HIS:HA	2:OE:409:VAL:HG22	1.91	0.53
1:OF:312:THR:HG21	2:OG:404:PHE:HZ	1.74	0.53
2:OG:248:LEU:HD13	2:OG:355:ILE:HD13	1.90	0.53
2:OG:293:ASN:O	2:OG:297:GLU:HG2	2.09	0.53
1:P:142:GLY:N	69:P:500:GDP:O3B	2.37	0.53
1:PD:248:SER:HA	1:PD:252:LYS:HD2	1.91	0.53
2:PE:90:GLU:HG2	2:PE:91:GLN:HG2	1.91	0.53
2:PE:269:LEU:HB3	2:PE:303:THR:HG21	1.90	0.53
1:PH:392:LYS:HD3	58:3m:25:ARG:CZ	2.38	0.53
2:PI:258:ASN:OD1	1:PJ:179:VAL:HG22	2.08	0.53
1:PJ:86:ARG:NH1	1:PJ:123:GLU:OE2	2.41	0.53
1:PJ:208:TYR:HE1	1:PJ:225:LEU:HD11	1.73	0.53
1:PL:3:GLU:HB3	1:PL:130:LEU:HA	1.90	0.53
1:PL:322:SER:HB3	2:PM:221:ARG:HE	1.74	0.53
1:QA:26:ASP:OD1	1:QA:359:LYS:HD3	2.09	0.53
1:QA:415:MET:O	1:QA:419:VAL:HG23	2.09	0.53
1:QG:165:MET:HG3	1:QG:198:GLU:HG3	1.91	0.53
1:QG:404:ASP:OD1	1:QG:405:GLU:N	2.41	0.53
2:QJ:172:TYR:CD2	2:QJ:203:MET:HG3	2.38	0.53
2:QJ:234:VAL:HG13	2:QJ:376:CYS:SG	2.49	0.53
1:QK:46:ARG:HH12	2:QL:73:THR:HG22	1.73	0.53
1:QK:322:SER:OG	2:QL:222:PRO:O	2.27	0.53
2:R:170:THR:HB	2:R:172:TYR:CE2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RA:2:ARG:HB3	1:RA:131:GLN:HG3	1.91	0.53
1:RA:91:ILE:HG22	1:RA:112:LEU:HD21	1.89	0.53
1:RE:101:TRP:CE3	1:RE:187:LEU:HD13	2.44	0.53
1:RK:27:GLU:O	1:RK:43:GLN:NE2	2.30	0.53
2:SG:93:VAL:HG13	61:3w:279:TYR:HB3	1.91	0.53
2:SG:301:MET:HE1	2:SG:307:PRO:HD3	1.91	0.53
2:SI:64:ARG:NH1	2:SI:129:CYS:SG	2.82	0.53
1:SJ:165:MET:CE	1:SJ:200:MET:HE3	2.38	0.53
1:TD:179:VAL:HG23	1:TD:180:VAL:HG23	1.90	0.53
2:TE:9:ILE:HG22	2:TE:146:GLY:HA2	1.90	0.53
1:TF:11:GLN:N	69:TF:500:GDP:O1B	2.40	0.53
1:TF:202:ILE:HD13	1:TF:268:MET:HG3	1.90	0.53
1:U:143:THR:OG1	1:U:147:MET:HE1	2.08	0.53
1:U:325:GLU:OE2	2:UA:221:ARG:HA	2.08	0.53
2:UC:85:GLN:HG3	53:3W:247:TYR:HA	1.91	0.53
2:UE:399:TYR:OH	2:UE:415:GLU:OE2	2.16	0.53
2:UG:21:TRP:CZ2	2:UG:65:CYS:HB3	2.44	0.53
1:UH:273:LEU:O	1:UH:292:GLN:NE2	2.42	0.53
2:UI:247:ALA:HB3	2:UI:355:ILE:HB	1.91	0.53
1:VB:239:CYS:HB3	1:VB:248:SER:H	1.74	0.53
2:VC:273:ALA:HB3	2:VC:295:VAL:HG23	1.89	0.53
2:VE:91:GLN:HA	2:VE:121:ARG:HD3	1.91	0.53
2:VE:265:ILE:HG23	2:VE:432:TYR:HE1	1.72	0.53
2:VG:427:ALA:HA	2:VG:430:LYS:HG2	1.90	0.53
1:VH:113:ILE:HG13	1:VH:117:LEU:HD23	1.91	0.53
1:VH:168:SER:O	1:VH:201:CYS:HA	2.08	0.53
1:VJ:274:THR:HG21	1:VJ:282:ARG:HD2	1.89	0.53
2:VM:165:SER:HB2	2:VM:256:GLN:NE2	2.24	0.53
2:WC:239:THR:OG1	2:WC:243:ARG:NH1	2.42	0.53
1:WD:77:ARG:HA	1:WD:82:GLY:HA3	1.90	0.53
1:WL:309:ARG:H	1:WL:372:THR:HG1	1.56	0.53
4:XQ:193:LEU:HD11	4:XQ:231:LEU:HD22	1.90	0.53
4:XR:300:VAL:HG23	4:XR:303:TYR:HB2	1.91	0.53
8:0I:237:GLU:O	8:0I:241:ARG:HG3	2.08	0.53
16:0l:256:THR:HB	16:0l:313:ALA:HB3	1.90	0.53
16:0l:421:PHE:HA	16:0l:424:VAL:HG23	1.90	0.53
20:0u:130:ASP:OD1	20:0u:131:GLU:N	2.42	0.53
21:0w:454:LYS:O	21:0w:454:LYS:NZ	2.42	0.53
24:1H:365:THR:O	24:1H:369:MET:HG2	2.09	0.53
24:1H:666:TYR:O	24:1H:670:ARG:HG3	2.09	0.53
24:1I:425:VAL:HG23	24:1I:512:SER:HB3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:1I:695:LYS:HE2	24:1I:713:ASN:HA	1.91	0.53
24:1J:173:PHE:O	24:1J:176:ARG:HG2	2.09	0.53
27:1S:89:LEU:HD23	45:2y:206:CYS:SG	2.49	0.53
34:2L:97:LEU:HD13	34:2L:106:THR:HG21	1.90	0.53
44:2v:297:MET:O	44:2v:301:ARG:HD3	2.09	0.53
46:3B:51:ARG:HE	46:3B:176:PHE:HE1	1.57	0.53
46:3B:145:GLU:OE2	46:3B:148:ARG:NH1	2.41	0.53
52:3U:141:SER:HB2	52:3U:144:GLN:HB2	1.91	0.53
57:3i:99:MET:SD	57:3i:103:GLU:HG2	2.49	0.53
60:3s:65:ASN:O	60:3s:69:VAL:HG23	2.08	0.53
67:5P:32:GLY:HA2	67:5P:103:PHE:CD1	2.40	0.53
1:AB:239:CYS:SG	1:AB:248:SER:N	2.80	0.53
1:AD:201:CYS:O	1:AD:301:GLN:NE2	2.41	0.53
1:B:190:HIS:HA	1:B:193:VAL:HG12	1.91	0.53
2:BA:406:HIS:HA	2:BA:409:VAL:HG12	1.91	0.53
1:BD:213:ARG:HH12	1:BD:297:LYS:HD2	1.73	0.53
1:BF:290:THR:HA	1:BF:293:MET:HE2	1.90	0.53
1:BJ:46:ARG:NH2	2:BK:76:ASP:OD2	2.42	0.53
2:BK:133:GLN:NE2	2:BK:252:LEU:H	2.07	0.53
2:BK:223:SER:OG	2:BK:224:TYR:N	2.40	0.53
1:BL:150:LEU:HG	1:BL:154:LYS:NZ	2.24	0.53
1:BN:158:GLU:HG3	1:BN:159:TYR:CD2	2.44	0.53
2:C:89:PRO:HG2	2:D:280:LYS:HD3	1.90	0.53
1:CC:83:GLN:HG3	27:1S:385:ARG:HH12	1.74	0.53
2:CF:27:GLU:HA	2:CF:361:THR:HG21	1.90	0.53
1:CG:226:ASN:OD1	69:CG:500:GDP:N1	2.34	0.53
1:CM:100:ASN:HB3	1:CM:103:LYS:HB2	1.91	0.53
1:DC:226:ASN:OD1	69:DC:500:GDP:N1	2.34	0.53
2:DD:258:ASN:HB2	1:DE:179:VAL:HG22	1.91	0.53
2:DD:324:VAL:HG12	2:DD:326:LYS:H	1.74	0.53
1:DG:143:THR:N	69:DG:500:GDP:O2B	2.39	0.53
2:DH:224:TYR:HA	2:DH:227:VAL:HG22	1.91	0.53
2:DH:295:VAL:HG21	2:DH:375:VAL:HG13	1.91	0.53
1:DK:290:THR:HA	1:DK:293:MET:HE2	1.90	0.53
2:EC:188:VAL:HG13	2:EC:189:LEU:HD12	1.91	0.53
1:EJ:86:ARG:HA	1:FJ:281:TYR:HD2	1.72	0.53
1:EL:51:PHE:HB3	1:EL:59:TYR:HB3	1.91	0.53
1:EL:263:LEU:HD21	1:EL:421:GLU:HG3	1.91	0.53
1:FD:345:ILE:HB	1:FD:348:ASN:ND2	2.24	0.53
1:FJ:200:MET:HE3	1:FJ:268:MET:SD	2.49	0.53
1:GD:18:SER:O	1:GD:22:GLU:HG3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GD:186:THR:HG23	1:GD:415:MET:SD	2.49	0.53
1:GJ:344:TRP:CG	2:GK:401:LYS:HZ3	2.27	0.53
2:GK:335:ILE:HD13	2:GK:338:LYS:HZ3	1.73	0.53
1:H:18:SER:O	1:H:22:GLU:HG2	2.09	0.53
2:HA:195:LEU:HD21	2:HA:428:LEU:HD11	1.91	0.53
1:HB:172:SER:HB3	1:HB:205:GLU:CD	2.34	0.53
1:HB:313:ALA:HB1	1:HB:367:PHE:CE1	2.44	0.53
1:HB:415:MET:HA	1:HB:415:MET:HE2	1.91	0.53
1:HD:342:ILE:HD12	1:HD:344:TRP:NE1	2.24	0.53
1:HF:156:ARG:HB2	1:HF:164:MET:HE1	1.91	0.53
1:HJ:318:ARG:HD3	1:HJ:358:PRO:HD3	1.91	0.53
1:HL:101:TRP:HB3	1:HL:398:TYR:HE2	1.73	0.53
2:IG:6:CYS:O	2:IG:65:CYS:HA	2.09	0.53
2:IK:223:SER:OG	2:IK:224:TYR:N	2.42	0.53
1:JA:301:GLN:HE22	1:JA:303:ALA:HB3	1.73	0.53
1:JC:10:GLY:HA2	1:JC:143:THR:HG23	1.90	0.53
1:JC:22:GLU:HA	1:JC:81:TYR:HD2	1.74	0.53
2:JD:237:SER:HA	2:JD:320:ARG:HH11	1.72	0.53
2:JL:340:THR:HG23	2:JL:341:ILE:HG23	1.90	0.53
1:JM:186:THR:HG21	1:JM:385:PHE:CG	2.44	0.53
2:JN:212:LEU:HD21	2:JN:275:VAL:HG11	1.91	0.53
1:KA:330:MET:HA	1:KA:333:VAL:HG12	1.90	0.53
2:KL:90:GLU:OE1	2:KL:121:ARG:HD2	2.09	0.53
2:KL:271:SER:HB3	2:KL:301:MET:HG2	1.91	0.53
1:KM:87:PRO:HD3	1:LM:281:TYR:CD2	2.44	0.53
1:KM:248:SER:HA	1:KM:252:LYS:HD2	1.91	0.53
1:LC:167:PHE:HZ	1:LC:236:VAL:HG11	1.74	0.53
1:LG:163:ILE:HG21	1:LG:250:LEU:HB3	1.91	0.53
2:LJ:295:VAL:HG21	2:LJ:375:VAL:HG13	1.91	0.53
2:LL:319:TYR:HB3	2:LL:323:VAL:HG21	1.90	0.53
2:LN:195:LEU:HD21	2:LN:264:ARG:HH21	1.72	0.53
2:LN:252:LEU:HA	2:LN:255:PHE:CE2	2.44	0.53
2:LN:377:MET:SD	2:LN:379:ALA:HB2	2.49	0.53
2:MG:22:GLU:HG2	54:3a:35:TYR:CD1	2.44	0.53
2:MI:167:LEU:HD11	2:MI:255:PHE:HE1	1.74	0.53
1:ML:226:ASN:HA	1:ML:229:VAL:HG22	1.91	0.53
1:NF:268:MET:HE1	1:NF:368:ILE:HA	1.91	0.53
2:NG:288:VAL:HG13	2:NG:319:TYR:HE2	1.73	0.53
2:NM:186:ASN:OD1	2:NM:408:TYR:OH	2.27	0.53
1:O:67:ASP:O	1:O:92:PHE:HA	2.09	0.53
1:O:371:ASN:OD1	1:O:372:THR:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OA:11:GLN:HB2	2:OA:74:VAL:HG11	1.91	0.53
1:OB:10:GLY:O	1:OB:14:ASN:ND2	2.42	0.53
1:OB:235:GLY:HA3	1:OB:366:THR:HG21	1.91	0.53
1:OB:396:HIS:HA	1:OB:399:THR:HG22	1.92	0.53
2:OC:1:MET:N	2:OC:3:GLU:OE2	2.41	0.53
2:OE:260:VAL:HB	1:OF:397:TRP:HZ2	1.74	0.53
2:OG:360:PRO:HG2	2:OG:374:ALA:HB3	1.89	0.53
1:OH:257:LEU:HD21	1:OH:314:SER:HB3	1.90	0.53
1:P:167:PHE:CD2	1:P:233:MET:HE2	2.44	0.53
2:PC:183:GLU:HG2	2:PC:184:PRO:HD3	1.90	0.53
2:PE:272:TYR:HD1	2:PE:376:CYS:HB3	1.73	0.53
1:PH:274:THR:HG22	1:PH:282:ARG:HD3	1.91	0.53
1:QE:9:ALA:HB3	1:QE:137:HIS:HB3	1.91	0.53
2:QH:298:PRO:HG2	59:4b:6:VAL:HG12	1.90	0.53
2:QL:255:PHE:O	2:QL:259:LEU:HB2	2.09	0.53
2:R:340:THR:HG23	2:R:341:ILE:HD12	1.89	0.53
1:RC:109:GLY:HA3	1:RC:147:MET:HG2	1.91	0.53
2:RD:167:LEU:HD23	2:RD:200:VAL:HB	1.90	0.53
1:RE:83:GLN:O	1:SD:281:TYR:OH	2.19	0.53
1:RE:91:ILE:HG21	1:RE:116:VAL:HG22	1.91	0.53
2:RJ:191:THR:HG21	2:RJ:425:LEU:HD13	1.91	0.53
2:SA:318:MET:HE1	2:SA:378:ILE:HG12	1.91	0.53
2:SE:21:TRP:CZ2	2:SE:65:CYS:HB2	2.43	0.53
2:SE:53:PHE:O	2:SE:64:ARG:NH1	2.42	0.53
1:SH:83:GLN:O	1:TH:281:TYR:OH	2.27	0.53
2:SK:56:THR:HG23	2:SK:58:ALA:H	1.74	0.53
2:SK:123:ARG:HH22	61:3x:109:GLU:CG	2.21	0.53
1:T:316:LEU:HD23	1:T:352:SER:HB2	1.90	0.53
2:TA:329:ASN:ND2	1:TB:175:VAL:HG22	2.24	0.53
1:TB:159:TYR:HB3	1:TB:162:ARG:HG2	1.90	0.53
1:TB:323:THR:HA	1:TB:326:VAL:HG12	1.90	0.53
1:TB:337:ASN:OD1	61:3w:182:ARG:N	2.38	0.53
1:TD:139:LEU:HG	1:TD:168:SER:HB2	1.90	0.53
1:TH:286:VAL:HG22	1:TH:321:MET:HE3	1.90	0.53
1:TJ:344:TRP:CE2	2:TK:401:LYS:HD2	2.43	0.53
2:UC:116:ASP:OD1	2:UC:117:LEU:N	2.41	0.53
2:UC:326:LYS:HZ1	1:UD:220:PRO:HG2	1.74	0.53
2:UE:295:VAL:HG21	2:UE:375:VAL:HG13	1.90	0.53
2:UG:228:ASN:OD1	71:UG:501:GTP:N1	2.38	0.53
1:UH:378:PHE:HB3	1:UH:419:VAL:HG22	1.91	0.53
1:UL:211:CYS:HB3	1:UL:220:PRO:HG3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VC:258:ASN:ND2	1:VD:178:THR:HG23	2.22	0.53
1:VD:323:THR:HG21	2:VE:224:TYR:CZ	2.44	0.53
1:WF:167:PHE:CE2	1:WF:233:MET:HG2	2.44	0.53
1:WF:311:LEU:HA	1:WF:342:ILE:HD12	1.91	0.53
2:WG:11:GLN:HB3	71:WG:501:GTP:O1A	2.08	0.53
1:WJ:257:LEU:HB3	1:WJ:266:PHE:CE1	2.44	0.53
2:WM:186:ASN:OD1	2:WM:408:TYR:OH	2.24	0.53
3:XB:97:LYS:NZ	3:XB:146:THR:HG23	2.24	0.53
3:XD:7:GLN:NE2	3:XD:70:GLY:O	2.40	0.53
3:XF:104:ARG:HH12	3:XF:157:HIS:CD2	2.27	0.53
4:XR:219:LEU:HD21	4:XR:247:LEU:HD22	1.91	0.53
6:0:49:VAL:O	6:0:53:GLN:HG2	2.08	0.53
7:0D:107:LEU:HD21	10:0R:90:MET:HB3	1.91	0.53
9:0M:551:ALA:HB1	9:0M:570:ASN:HB2	1.90	0.53
16:0k:143:ILE:HD12	16:0k:208:MET:HE2	1.90	0.53
17:0m:76:GLU:O	17:0m:79:SER:OG	2.22	0.53
24:1H:520:PRO:HB3	24:1H:527:ASP:HA	1.90	0.53
26:1Q:439:ASN:HD21	26:1Q:442:ARG:NH2	2.07	0.53
27:1S:279:GLY:HA2	27:1S:310:GLU:HB2	1.91	0.53
28:1g:254:LEU:CD1	28:1h:19:VAL:HG21	2.39	0.53
33:2G:141:VAL:HA	33:2G:147:HIS:HA	1.91	0.53
42:2r:155:PRO:HD2	42:2r:158:LEU:HD12	1.91	0.53
1:A:16:ILE:HD11	1:A:229:VAL:HG11	1.91	0.52
1:AB:311:LEU:HA	1:AB:342:ILE:HD12	1.92	0.52
1:AB:377:MET:HG3	1:AB:378:PHE:CD2	2.43	0.52
2:AC:319:TYR:HD2	2:AC:323:VAL:HG11	1.74	0.52
2:AE:3:GLU:HA	2:AE:51:THR:HA	1.91	0.52
2:AG:254:GLU:OE2	1:AH:99:ASN:N	2.42	0.52
1:AJ:252:LYS:HE2	2:AK:100:ALA:HA	1.90	0.52
1:AJ:318:ARG:HD3	1:AJ:358:PRO:HD3	1.91	0.52
1:AJ:359:LYS:HE3	54:3a:135:HIS:CD2	2.45	0.52
2:AK:9:ILE:HD13	2:AK:150:GLY:HA2	1.91	0.52
2:BC:118:ALA:O	2:BC:122:ILE:HG12	2.09	0.52
1:BH:324:LYS:HE3	2:BI:214:ARG:HD3	1.90	0.52
2:BI:3:GLU:HG2	2:BI:129:CYS:HB2	1.90	0.52
1:BJ:267:MET:HE3	1:BJ:371:ASN:HB3	1.90	0.52
1:BN:272:PRO:HD3	1:BN:364:SER:HA	1.90	0.52
1:CA:27:GLU:OE1	1:CA:234:SER:OG	2.28	0.52
1:CC:60:VAL:HG21	1:CC:86:ARG:HG3	1.90	0.52
2:CD:194:LEU:O	2:CD:266:HIS:NE2	2.36	0.52
2:CD:258:ASN:HD22	2:CD:352:LYS:HD3	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CH:295:VAL:HG12	2:CH:377:MET:HE2	1.90	0.52
1:CK:227:HIS:CE1	24:1J:326:SER:H	2.27	0.52
1:DC:301:GLN:OE1	1:DC:377:MET:HE1	2.09	0.52
2:DD:345:ASP:OD1	1:DE:391:ARG:NH1	2.42	0.52
2:DF:240:ALA:O	2:DF:356:ASN:ND2	2.42	0.52
2:DH:367:ASP:N	2:DH:367:ASP:OD1	2.42	0.52
1:DI:10:GLY:O	1:DI:14:ASN:ND2	2.41	0.52
1:DI:61:PRO:HD3	1:DI:84:LEU:HG	1.91	0.52
1:DI:228:LEU:HD11	1:DI:273:LEU:HD11	1.91	0.52
1:DM:321:MET:HE1	1:DM:325:GLU:OE2	2.09	0.52
2:EA:88:ASN:HB3	2:EA:91:GLN:HG2	1.91	0.52
1:EB:66:MET:HB3	1:EB:147:MET:HE3	1.91	0.52
1:EF:229:VAL:HA	1:EF:232:VAL:HG22	1.91	0.52
1:EH:179:VAL:HB	1:EH:388:MET:HE1	1.90	0.52
1:F:255:VAL:HG11	2:FA:100:ALA:O	2.10	0.52
1:GB:246:LEU:HD12	2:GC:11:GLN:HG2	1.91	0.52
2:GE:309:HIS:HE2	59:4O:216:THR:HG1	1.48	0.52
1:GH:170:ILE:HD12	1:GH:377:MET:HE3	1.92	0.52
2:HE:50:ASN:OD1	2:HE:64:ARG:NH2	2.42	0.52
2:HI:207:GLU:OE2	2:HI:304:LYS:NZ	2.41	0.52
2:HI:392:ASP:OD1	2:HI:393:HIS:N	2.42	0.52
2:HM:277:SER:O	2:HM:281:ALA:HB2	2.09	0.52
1:I:207:LEU:HD13	1:I:225:LEU:HB3	1.90	0.52
2:IA:258:ASN:HD22	1:IB:179:VAL:HG22	1.72	0.52
2:IC:212:LEU:O	2:IC:216:SER:OG	2.24	0.52
2:IE:98:ASP:OD1	2:IE:99:ALA:N	2.42	0.52
2:IG:340:THR:HG23	2:IG:341:ILE:HG23	1.91	0.52
2:IG:396:ASP:OD2	2:IG:422:ARG:NH2	2.42	0.52
2:IM:205:ASP:OD1	2:IM:303:THR:HA	2.09	0.52
2:J:291:ILE:O	2:J:295:VAL:HG23	2.09	0.52
2:JB:217:LEU:HB3	2:JB:219:ILE:HG13	1.90	0.52
2:JB:402:ARG:HG3	60:3r:61:ILE:HD12	1.90	0.52
1:JE:347:ASN:ND2	2:JF:178:SER:OG	2.41	0.52
1:JK:132:GLY:HA2	1:JK:162:ARG:HG3	1.90	0.52
2:JN:2:ARG:HH22	2:JN:48:ALA:HA	1.73	0.52
1:KA:208:TYR:CE1	1:KA:225:LEU:HD11	2.43	0.52
2:KD:22:GLU:OE1	15:0f:230:ILE:HG23	2.09	0.52
2:KF:56:THR:HG22	2:KF:58:ALA:H	1.73	0.52
2:KF:122:ILE:HD13	2:KF:157:LEU:HD21	1.90	0.52
1:KK:32:PRO:HG3	1:KK:81:TYR:CE1	2.44	0.52
1:KK:404:ASP:OD1	1:KK:405:GLU:N	2.41	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KL:325:PRO:O	2:KL:329:ASN:ND2	2.42	0.52
2:LB:269:LEU:HD13	2:LB:301:MET:HE3	1.91	0.52
2:LB:273:ALA:O	2:LB:375:VAL:N	2.34	0.52
1:LE:67:ASP:HB3	1:LE:73:MET:HE2	1.90	0.52
2:LF:295:VAL:HG21	2:LF:375:VAL:HG13	1.91	0.52
1:LG:194:GLU:OE1	1:LG:194:GLU:N	2.43	0.52
2:LH:42:ILE:HG22	40:2Z:324:ARG:HE	1.74	0.52
2:LN:240:ALA:HA	2:LN:243:ARG:HB2	1.91	0.52
1:MB:294:PHE:HB3	13:0Y:76:PHE:HE1	1.74	0.52
2:MC:316:CYS:HB3	2:MC:352:LYS:HB3	1.91	0.52
1:MF:342:ILE:HD12	1:MF:344:TRP:CE2	2.44	0.52
1:MJ:261:PRO:HA	4:XQ:79:GLY:HA3	1.90	0.52
1:ML:274:THR:OG1	1:ML:279:GLN:OE1	2.27	0.52
1:MN:317:PHE:CE2	1:MN:330:MET:HE1	2.41	0.52
1:NB:87:PRO:HD3	1:OB:281:TYR:CD1	2.44	0.52
2:NC:431:ASP:OD1	2:NC:432:TYR:N	2.41	0.52
2:NE:328:VAL:O	2:NE:332:ILE:HG12	2.09	0.52
2:OG:345:ASP:OD2	2:OG:346:TRP:N	2.42	0.52
2:PA:89:PRO:HB2	2:Q:280:LYS:HZ3	1.74	0.52
2:PA:155:GLU:HG3	2:PA:197:HIS:CE1	2.44	0.52
2:PA:159:VAL:HG12	59:4a:117:THR:HG21	1.89	0.52
1:PL:416:ASN:HA	1:PL:419:VAL:HG12	1.91	0.52
1:QE:31:ASP:OD2	1:QE:33:THR:OG1	2.15	0.52
2:QH:192:HIS:ND1	2:QH:424:ASP:OD2	2.35	0.52
1:QK:115:SER:O	1:QK:119:VAL:HG23	2.09	0.52
1:QK:226:ASN:O	69:QK:500:GDP:H3'	2.09	0.52
2:QL:320:ARG:HH21	2:QL:360:PRO:HA	1.73	0.52
2:R:169:TYR:HE2	2:R:235:VAL:HG22	1.74	0.52
1:RC:236:VAL:HG22	1:RC:368:ILE:HD11	1.91	0.52
2:RD:346:TRP:CD1	1:RE:391:ARG:HG3	2.44	0.52
2:RJ:262:TYR:CZ	1:RK:393:ALA:HB2	2.44	0.52
2:RJ:328:VAL:HG21	2:RJ:355:ILE:HD11	1.91	0.52
1:RK:128:ASP:OD1	1:RK:129:CYS:N	2.42	0.52
1:RK:226:ASN:HA	1:RK:229:VAL:HG12	1.91	0.52
1:SB:110:ALA:HB3	61:3w:166:ARG:HH12	1.75	0.52
1:SD:289:LEU:HD11	1:SD:363:MET:HG3	1.91	0.52
1:T:209:ASP:OD1	1:T:213:ARG:HD3	2.09	0.52
1:TD:133:PHE:CD2	1:TD:155:LEU:HD23	2.44	0.52
2:TG:98:ASP:O	2:TG:105:ARG:NH2	2.34	0.52
1:TH:313:ALA:HB3	1:TH:349:ILE:HG12	1.92	0.52
1:UB:311:LEU:O	1:UB:348:ASN:ND2	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UB:346:PRO:HD3	2:UC:397:LEU:HD11	1.89	0.52
2:UC:72:PRO:HA	2:UC:94:SER:OG	2.09	0.52
2:UE:166:LYS:HB2	2:UE:199:ASP:H	1.74	0.52
2:UI:209:ILE:HG23	2:UI:230:LEU:HD23	1.92	0.52
2:UI:213:THR:HG21	2:UI:222:PRO:HB3	1.91	0.52
2:UK:102:ASN:HB3	2:UK:105:ARG:HG3	1.90	0.52
2:UK:399:TYR:OH	2:UK:402:ARG:NH1	2.42	0.52
1:UL:289:LEU:O	1:UL:293:MET:HG3	2.09	0.52
1:V:134:GLN:HA	1:V:165:MET:O	2.08	0.52
1:VF:251:ARG:HH12	2:VG:105:ARG:NH2	2.07	0.52
2:VG:205:ASP:OD1	2:VG:303:THR:HA	2.09	0.52
2:VK:195:LEU:HD13	2:VK:264:ARG:HE	1.75	0.52
1:WJ:246:LEU:HA	2:WK:11:GLN:NE2	2.24	0.52
1:WL:245:GLN:HE21	1:WL:353:ILE:HG21	1.74	0.52
1:WL:295:ASP:OD2	1:WL:297:LYS:NZ	2.39	0.52
4:XO:112:ALA:O	4:XO:210:ARG:NH1	2.42	0.52
15:0f:125:ASN:OD1	15:0f:126:LYS:N	2.40	0.52
16:0l:438:ARG:HG3	16:0l:438:ARG:HH11	1.75	0.52
23:1A:126:LYS:HG3	23:1A:129:MET:SD	2.49	0.52
23:1E:329:GLN:O	23:1E:333:GLN:HG2	2.09	0.52
27:1S:815:LEU:HD12	27:1S:816:PRO:HD2	1.91	0.52
28:1a:237:PRO:HB2	28:1b:22:ILE:CG2	2.39	0.52
28:1h:146:LYS:O	28:1h:150:GLU:HG2	2.09	0.52
57:3f:103:GLU:O	57:3f:107:GLN:N	2.38	0.52
65:5H:134:ARG:NH2	68:5T:138:ARG:HG2	2.24	0.52
2:AC:286:LEU:O	2:AC:373:ARG:NH1	2.41	0.52
1:AF:61:PRO:HD3	1:AF:84:LEU:HG	1.91	0.52
1:AJ:178:THR:HB	1:AJ:181:GLU:HG3	1.91	0.52
1:AL:35:THR:OG1	1:AL:37:GLN:NE2	2.42	0.52
1:AL:309:ARG:H	1:AL:372:THR:HG1	1.56	0.52
2:AM:74:VAL:O	2:AM:77:GLU:HG3	2.09	0.52
1:AN:292:GLN:O	1:AN:298:ASN:ND2	2.39	0.52
2:BC:177:VAL:HB	2:BC:207:GLU:OE1	2.10	0.52
2:BE:53:PHE:HB3	2:BE:61:HIS:HB3	1.91	0.52
2:BE:367:ASP:N	2:BE:367:ASP:OD1	2.40	0.52
2:BG:402:ARG:NE	2:BG:415:GLU:OE2	2.42	0.52
1:BH:158:GLU:HG3	1:BH:159:TYR:CD2	2.44	0.52
2:BK:392:ASP:HB3	2:BK:425:LEU:HD23	1.91	0.52
2:BM:150:GLY:O	2:BM:154:LEU:HD23	2.08	0.52
2:C:44:VAL:HG22	2:C:45:GLU:H	1.74	0.52
2:CH:3:GLU:HG2	2:CH:51:THR:HA	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CK:158:GLU:HG3	1:CK:159:TYR:CD1	2.44	0.52
1:DG:101:TRP:CD1	1:DG:145:SER:HG	2.27	0.52
2:EG:256:GLN:HE21	1:EH:397:TRP:HZ2	1.56	0.52
2:EI:293:ASN:O	2:EI:297:GLU:HG2	2.10	0.52
1:FD:289:LEU:HD22	1:FD:365:VAL:HG12	1.91	0.52
2:FI:196:GLU:HG3	2:FI:197:HIS:HD2	1.75	0.52
2:FK:311:LYS:H	2:FK:382:THR:HG22	1.75	0.52
2:GA:251:ASP:H	2:GA:254:GLU:HG3	1.74	0.52
1:GH:159:TYR:HB3	1:GH:162:ARG:HG3	1.92	0.52
1:H:290:THR:HA	1:H:293:MET:HE2	1.91	0.52
1:HB:125:GLU:OE1	1:IB:291:GLN:NE2	2.42	0.52
2:HC:308:ARG:HH11	65:5G:158:VAL:HG11	1.73	0.52
1:HD:323:THR:HG21	2:HE:224:TYR:CD1	2.44	0.52
1:HF:371:ASN:OD1	1:HF:373:CYS:N	2.37	0.52
1:HH:21:TRP:CZ3	1:HH:50:TYR:HB3	2.45	0.52
1:I:170:ILE:HD13	1:I:377:MET:SD	2.49	0.52
1:IB:34:GLY:HA3	1:IB:58:ARG:HG3	1.91	0.52
1:IF:238:CYS:SG	1:IF:318:ARG:NE	2.82	0.52
1:IF:245:GLN:HB3	2:IG:224:TYR:HD2	1.74	0.52
2:IG:223:SER:OG	2:IG:224:TYR:N	2.42	0.52
1:JA:311:LEU:N	1:JA:370:ASN:O	2.42	0.52
2:JB:67:PHE:HB2	2:JB:92:LEU:HD12	1.90	0.52
2:JB:237:SER:HA	2:JB:320:ARG:HD2	1.90	0.52
1:JC:377:MET:HG3	1:JC:378:PHE:CD1	2.44	0.52
1:JM:238:CYS:SG	1:JM:239:CYS:N	2.82	0.52
2:K:301:MET:HG2	2:K:303:THR:H	1.75	0.52
1:KE:344:TRP:HB3	1:KE:430:VAL:HG12	1.91	0.52
2:KF:79:ARG:HG3	2:KF:92:LEU:HD22	1.92	0.52
2:KF:212:LEU:HD21	2:KF:275:VAL:HG11	1.90	0.52
2:KH:144:GLY:N	71:KH:501:GTP:O1B	2.43	0.52
1:KI:189:VAL:HG21	1:KI:415:MET:SD	2.49	0.52
2:KL:409:VAL:HA	2:KL:413:MET:O	2.09	0.52
2:KN:53:PHE:HB3	2:KN:61:HIS:HB3	1.91	0.52
2:KN:75:VAL:HG11	2:KN:94:SER:HB2	1.91	0.52
1:LA:330:MET:HE3	1:LA:330:MET:HA	1.91	0.52
2:LB:66:LEU:HD13	2:LB:122:ILE:HG12	1.91	0.52
2:LB:326:LYS:CE	1:LC:212:PHE:HB2	2.39	0.52
1:LC:122:LYS:HE2	1:MB:291:GLN:CD	2.35	0.52
2:LH:224:TYR:O	2:LH:228:ASN:ND2	2.42	0.52
1:MB:311:LEU:HA	1:MB:342:ILE:HD12	1.91	0.52
2:MC:258:ASN:HD21	1:MD:180:VAL:HG22	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MC:286:LEU:O	2:MC:373:ARG:NH1	2.34	0.52
1:MD:198:GLU:HA	1:MD:264:HIS:HB2	1.90	0.52
1:MH:113:ILE:HG13	1:MH:117:LEU:HD23	1.90	0.52
1:MJ:170:ILE:HG21	1:MJ:377:MET:SD	2.49	0.52
1:MN:173:PRO:HD2	1:MN:174:ARG:NH1	2.24	0.52
1:N:342:ILE:HG13	1:N:345:ILE:HG22	1.90	0.52
1:ND:309:ARG:HB3	60:3r:144:ARG:NH2	2.23	0.52
1:NJ:229:VAL:HA	1:NJ:232:VAL:HG12	1.91	0.52
1:NL:60:VAL:HG11	1:NL:86:ARG:NH2	2.24	0.52
1:NL:80:PRO:HD2	1:NL:81:TYR:H	1.74	0.52
2:NM:11:GLN:HG2	2:NM:15:GLN:NE2	2.24	0.52
2:NM:408:TYR:HB3	2:NM:413:MET:HE2	1.92	0.52
1:OD:331:LEU:HD11	2:OE:176:GLN:HB3	1.91	0.52
1:OH:189:VAL:HG21	1:OH:415:MET:SD	2.48	0.52
2:OK:104:ALA:HB2	2:OK:413:MET:HE3	1.89	0.52
2:PC:129:CYS:HB3	2:PC:132:LEU:HB2	1.91	0.52
1:PD:122:LYS:HE3	1:QC:291:GLN:NE2	2.24	0.52
2:PG:101:ASN:HD22	2:PG:143:GLY:HA2	1.74	0.52
1:PH:83:GLN:HG3	39:2X:33:SER:HB2	1.91	0.52
2:PK:392:ASP:OD2	2:PK:422:ARG:NH2	2.42	0.52
1:PL:301:GLN:HB3	1:PL:377:MET:HE1	1.92	0.52
1:QA:163:ILE:C	1:QA:164:MET:HE2	2.33	0.52
2:QH:196:GLU:HG3	2:QH:197:HIS:ND1	2.24	0.52
1:QI:62:ARG:HG2	1:QI:123:GLU:OE2	2.10	0.52
2:QJ:178:SER:OG	2:QJ:183:GLU:OE2	2.22	0.52
2:QJ:288:VAL:HB	2:QJ:327:ASP:HB3	1.90	0.52
2:QL:224:TYR:HA	2:QL:227:VAL:HG22	1.91	0.52
1:RC:36:TYR:OH	1:RC:40:SER:O	2.26	0.52
2:RD:71:GLU:HB3	2:RD:98:ASP:HB3	1.92	0.52
1:RI:226:ASN:OD1	69:RI:500:GDP:N1	2.32	0.52
1:RK:187:LEU:HA	1:RK:190:HIS:CE1	2.44	0.52
1:SF:193:VAL:HG23	1:SF:194:GLU:OE1	2.09	0.52
1:SJ:253:LEU:O	1:SJ:257:LEU:HB2	2.09	0.52
1:TD:322:SER:O	1:TD:326:VAL:HG23	2.09	0.52
2:TK:425:LEU:HD12	2:TK:428:LEU:HD13	1.89	0.52
1:UB:226:ASN:HA	1:UB:229:VAL:HG12	1.92	0.52
2:UC:3:GLU:CG	2:UC:64:ARG:HH12	2.20	0.52
1:UD:134:GLN:HG3	1:UD:167:PHE:HE2	1.73	0.52
2:UE:319:TYR:HB3	2:UE:323:VAL:HG21	1.90	0.52
2:UG:268:VAL:HG21	2:UG:378:ILE:HG13	1.91	0.52
2:UI:399:TYR:OH	2:UI:415:GLU:OE2	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:UK:172:TYR:CE2	2:UK:203:MET:HE1	2.44	0.52
2:UK:251:ASP:H	2:UK:254:GLU:HG3	1.74	0.52
1:V:306:ARG:HA	1:V:340:TYR:HE1	1.74	0.52
1:VH:22:GLU:HG3	1:VH:81:TYR:CG	2.44	0.52
1:W:234:SER:O	1:W:241:ARG:NH2	2.43	0.52
1:WH:245:GLN:HE21	2:WI:224:TYR:HB2	1.75	0.52
2:WI:21:TRP:CZ2	2:WI:65:CYS:HB3	2.45	0.52
2:WI:184:PRO:HA	2:WI:391:ILE:HD11	1.90	0.52
2:WI:326:LYS:HZ1	1:WJ:212:PHE:HD1	1.57	0.52
1:WJ:323:THR:HG21	2:WK:224:TYR:CD1	2.44	0.52
3:XE:180:GLU:HG2	3:XE:181:PHE:HD1	1.74	0.52
7:0C:270:VAL:HA	7:0C:273:LEU:HB2	1.91	0.52
9:0L:501:ARG:HG3	9:0L:501:ARG:HH11	1.74	0.52
9:0N:39:LEU:HD11	9:0N:615:ALA:HB2	1.91	0.52
9:0N:504:MET:HG2	9:0N:539:CYS:HB3	1.90	0.52
9:0O:220:SER:OG	9:0O:222:ASP:OD1	2.23	0.52
10:0R:59:ARG:HH21	47:3D:122:MET:HE2	1.74	0.52
17:0n:178:ARG:HD2	43:2t:278:ARG:HH22	1.74	0.52
19:0r:262:GLU:OE2	19:0r:292:ARG:NH2	2.33	0.52
20:0u:181:ASP:OD1	20:0u:182:GLY:N	2.42	0.52
23:1E:106:VAL:HG13	24:1J:28:MET:HE2	1.90	0.52
24:1I:566:PHE:HE2	24:1I:582:ILE:HD12	1.75	0.52
27:1T:788:ARG:NH1	27:1T:820:TYR:O	2.42	0.52
29:1l:72:LYS:HD3	29:1l:74:ARG:HE	1.73	0.52
31:1t:161:GLU:OE1	22:1y:186:ILE:HG12	2.09	0.52
39:2X:34:ILE:HD12	41:2h:169:GLU:HG2	1.90	0.52
44:2w:55:GLU:CG	44:2w:71:PHE:HB2	2.39	0.52
45:2z:69:TYR:CD1	45:2z:70:PRO:HD2	2.45	0.52
46:3B:274:VAL:HG21	46:3B:341:LEU:HD21	1.91	0.52
2:AA:105:ARG:HG3	2:AA:411:GLU:HG3	1.91	0.52
2:AA:138:PHE:HE2	2:AA:235:VAL:HG21	1.75	0.52
1:AD:245:GLN:O	2:AE:11:GLN:NE2	2.42	0.52
1:AH:301:GLN:CD	1:AH:377:MET:HE1	2.33	0.52
2:AK:349:THR:HG23	1:AL:384:GLN:HE22	1.74	0.52
1:AL:375:GLN:NE2	1:AL:426:GLN:OE1	2.42	0.52
2:AM:9:ILE:HD11	2:AM:153:LEU:HD23	1.92	0.52
1:AN:417:ASP:CG	4:XR:204:LYS:HZ1	2.16	0.52
2:BA:260:VAL:HB	1:BB:397:TRP:HH2	1.73	0.52
1:BB:246:LEU:HB2	1:BB:353:ILE:H	1.73	0.52
1:BD:344:TRP:HB3	1:BD:430:VAL:HG12	1.91	0.52
1:BL:139:LEU:HG	1:BL:168:SER:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BM:345:ASP:OD1	2:BM:346:TRP:N	2.43	0.52
2:CF:251:ASP:H	2:CF:254:GLU:HG3	1.74	0.52
2:CF:293:ASN:O	2:CF:297:GLU:HG2	2.09	0.52
1:CM:267:MET:N	1:CM:369:GLY:O	2.36	0.52
1:DC:204:ASN:OD1	69:DC:500:GDP:O2'	2.25	0.52
1:DC:327:ASP:HB3	2:DD:177:VAL:HG13	1.92	0.52
1:DM:189:VAL:O	1:DM:193:VAL:HG23	2.09	0.52
1:E:246:LEU:HA	2:EA:11:GLN:HE22	1.74	0.52
1:EB:179:VAL:HG23	1:EB:180:VAL:HG13	1.91	0.52
1:EF:289:LEU:HD11	1:EF:363:MET:HG3	1.90	0.52
1:F:20:PHE:HA	1:F:230:ALA:HB1	1.92	0.52
2:FA:352:LYS:HD2	1:FB:177:ASP:O	2.09	0.52
1:FB:238:CYS:SG	1:FB:239:CYS:N	2.82	0.52
1:FF:139:LEU:HG	1:FF:168:SER:HB2	1.91	0.52
2:FG:167:LEU:HD11	2:FG:255:PHE:HZ	1.75	0.52
1:FH:316:LEU:HB2	1:FH:366:THR:HB	1.91	0.52
2:FK:9:ILE:HD13	2:FK:150:GLY:HA2	1.92	0.52
1:FL:67:ASP:O	1:FL:92:PHE:HA	2.10	0.52
1:G:238:CYS:HB2	1:G:318:ARG:HH11	1.74	0.52
1:GB:310:TYR:HE1	1:GB:367:PHE:HZ	1.57	0.52
1:GB:323:THR:HG21	2:GC:224:TYR:CZ	2.43	0.52
2:GE:324:VAL:HG13	2:GE:327:ASP:H	1.74	0.52
1:GH:139:LEU:O	1:GH:145:SER:OG	2.27	0.52
1:H:313:ALA:HB1	1:H:367:PHE:HE1	1.74	0.52
1:HD:152:ILE:HG22	1:HD:195:ASN:HB3	1.90	0.52
2:IA:291:ILE:O	2:IA:295:VAL:HG23	2.10	0.52
2:IC:21:TRP:CZ2	2:IC:65:CYS:HB3	2.44	0.52
1:ID:335:ASN:OD1	1:ID:336:LYS:N	2.42	0.52
2:IG:308:ARG:NH1	2:IG:340:THR:OG1	2.43	0.52
1:IJ:246:LEU:HA	2:IK:11:GLN:HE21	1.74	0.52
1:IJ:267:MET:O	1:IJ:268:MET:HE2	2.08	0.52
2:IM:55:GLU:OE2	2:IM:61:HIS:NE2	2.42	0.52
2:IM:174:SER:HB3	2:IM:206:ASN:H	1.74	0.52
1:JA:249:ASP:OD2	1:JA:252:LYS:N	2.28	0.52
1:JC:253:LEU:HD11	1:JC:316:LEU:HD11	1.91	0.52
1:JG:42:LEU:HD22	1:JG:356:ILE:HD11	1.90	0.52
1:JG:167:PHE:CD2	1:JG:233:MET:HE2	2.43	0.52
2:JL:28:HIS:NE2	2:JL:243:ARG:HD2	2.23	0.52
2:JL:133:GLN:NE2	2:JL:251:ASP:HB3	2.24	0.52
1:JM:175:VAL:HG13	1:JM:205:GLU:OE2	2.08	0.52
1:JM:224:ASP:OD1	1:JM:225:LEU:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KG:99:ASN:HD21	1:KG:178:THR:HG23	1.74	0.52
1:KG:245:GLN:NE2	2:KH:223:SER:OG	2.35	0.52
1:KI:311:LEU:HA	1:KI:342:ILE:HD12	1.90	0.52
1:KK:117:LEU:HD11	1:KK:154:LYS:HB3	1.91	0.52
2:KN:377:MET:SD	2:KN:379:ALA:HB2	2.50	0.52
1:LE:403:MET:HA	50:3S:136:ARG:NH1	2.24	0.52
1:LK:44:LEU:HD13	44:2w:71:PHE:CE1	2.44	0.52
1:LO:11:GLN:HA	1:LO:72:THR:HG21	1.91	0.52
1:MB:232:VAL:HG21	1:MB:300:MET:HE1	1.91	0.52
1:MB:345:ILE:HD11	2:MC:404:PHE:HE2	1.73	0.52
2:ME:26:LEU:HB3	40:2Z:13:VAL:HG21	1.90	0.52
2:MG:11:GLN:HG3	2:MG:74:VAL:HG11	1.91	0.52
2:MG:243:ARG:HH21	2:MG:244:PHE:HE2	1.56	0.52
2:MK:3:GLU:HA	2:MK:51:THR:HA	1.90	0.52
2:MM:398:MET:HE3	2:MM:403:ALA:HB3	1.91	0.52
1:N:91:ILE:HD11	1:N:119:VAL:HG21	1.90	0.52
2:NA:75:VAL:HG21	2:NA:94:SER:HB2	1.91	0.52
1:NF:10:GLY:O	1:NF:14:ASN:ND2	2.42	0.52
1:NH:248:SER:HA	1:NH:252:LYS:HG2	1.91	0.52
2:NI:116:ASP:OD1	2:NI:117:LEU:N	2.41	0.52
1:NJ:213:ARG:HH22	1:NJ:297:LYS:HB2	1.75	0.52
1:O:172:SER:HB3	1:O:205:GLU:CD	2.34	0.52
1:O:267:MET:CE	1:O:301:GLN:HE22	2.23	0.52
2:OA:345:ASP:OD1	2:OA:346:TRP:N	2.42	0.52
1:OB:237:THR:OG1	1:OB:241:ARG:NH1	2.43	0.52
1:OD:152:ILE:CD1	1:OD:164:MET:HE2	2.40	0.52
1:OF:252:LYS:HB3	2:OG:100:ALA:HA	1.91	0.52
1:OF:257:LEU:HD11	1:OF:314:SER:HB2	1.92	0.52
2:OG:90:GLU:OE1	2:PG:280:LYS:NZ	2.35	0.52
1:OH:152:ILE:HD13	1:OH:164:MET:HE2	1.90	0.52
2:OI:194:LEU:O	2:OI:198:THR:OG1	2.26	0.52
1:OL:221:THR:HG23	1:OL:223:GLY:H	1.73	0.52
1:PB:170:ILE:HD11	1:PB:377:MET:SD	2.49	0.52
2:PE:320:ARG:HG2	2:PE:358:GLN:O	2.09	0.52
2:PG:59:GLY:N	41:2h:186:ARG:HH22	2.08	0.52
2:PI:262:TYR:HB2	2:PI:265:ILE:HG12	1.90	0.52
2:PM:6:CYS:O	2:PM:7:ILE:HD13	2.09	0.52
1:QC:156:ARG:HH22	1:QC:197:ASP:CG	2.17	0.52
2:QF:177:VAL:N	2:QF:207:GLU:OE2	2.41	0.52
1:QG:249:ASP:H	1:QG:252:LYS:HB3	1.74	0.52
2:QL:311:LYS:NZ	2:QL:436:GLY:O	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:RB:195:LEU:HA	2:RB:266:HIS:CE1	2.44	0.52
1:RE:167:PHE:CE2	1:RE:233:MET:HG3	2.45	0.52
1:RE:215:LEU:HD21	1:RE:273:LEU:HD22	1.91	0.52
2:RJ:301:MET:HG2	2:RJ:303:THR:H	1.74	0.52
2:RL:167:LEU:HG	2:RL:200:VAL:HB	1.90	0.52
1:SF:293:MET:HG3	1:SF:367:PHE:HB2	1.90	0.52
2:SG:102:ASN:HB3	2:SG:105:ARG:HB2	1.92	0.52
2:SI:286:LEU:O	2:SI:373:ARG:NH1	2.35	0.52
1:TD:272:PRO:HD3	1:TD:364:SER:HA	1.91	0.52
2:TG:62:VAL:HG11	2:TG:88:ASN:HD22	1.74	0.52
2:TG:262:TYR:HD1	57:3g:191:SER:HB3	1.74	0.52
2:UA:177:VAL:HG22	2:UA:207:GLU:OE2	2.09	0.52
2:UC:185:TYR:HA	2:UC:395:PHE:HE2	1.74	0.52
1:UF:2:ARG:HH11	1:UF:240:LEU:HD23	1.73	0.52
2:UI:265:ILE:HG23	2:UI:432:TYR:CE1	2.45	0.52
1:UJ:148:GLY:O	1:UJ:152:ILE:HG12	2.09	0.52
1:UL:328:GLU:O	1:UL:331:LEU:HG	2.08	0.52
1:VF:36:TYR:OH	1:VF:40:SER:O	2.27	0.52
1:VF:187:LEU:CD2	1:VF:403:MET:HE1	2.39	0.52
2:VG:352:LYS:HD2	1:VH:178:THR:HG22	1.91	0.52
1:VH:159:TYR:HB3	1:VH:162:ARG:HG3	1.91	0.52
2:VI:324:VAL:HG13	2:VI:327:ASP:H	1.74	0.52
1:VJ:208:TYR:CE1	1:VJ:225:LEU:HD11	2.45	0.52
2:VM:315:CYS:HB2	2:VM:351:PHE:HD1	1.75	0.52
1:W:35:THR:OG1	14:0c:356:LYS:NZ	2.35	0.52
1:WF:63:ALA:O	1:WF:89:ASN:ND2	2.39	0.52
1:WF:375:GLN:NE2	1:WF:423:GLN:OE1	2.41	0.52
2:WG:254:GLU:OE1	1:WH:99:ASN:HB2	2.09	0.52
3:XB:78:MET:HG2	3:XB:165:LEU:HG	1.91	0.52
6:0:192:MET:HG2	6:0:201:VAL:HG21	1.90	0.52
7:0D:376:ASP:HA	7:0D:379:ILE:HD12	1.91	0.52
8:0G:135:ILE:HG22	8:0G:139:LYS:NZ	2.25	0.52
8:0J:279:GLU:O	8:0J:282:LYS:HG2	2.09	0.52
8:0J:431:GLN:HA	8:0J:434:ILE:HD12	1.91	0.52
9:0L:573:ILE:HD12	9:0L:589:LEU:HG	1.91	0.52
9:0N:166:GLU:O	9:0N:181:VAL:HG22	2.08	0.52
9:0O:151:HIS:HD2	9:0O:153:THR:H	1.58	0.52
16:0l:438:ARG:HH11	16:0l:441:ARG:HH22	1.58	0.52
19:0r:292:ARG:O	19:0r:294:GLY:N	2.41	0.52
20:0u:137:TYR:HB3	20:0u:199:GLN:HE22	1.74	0.52
23:1B:327:LYS:NZ	44:2w:9:LEU:HD23	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:1I:344:ARG:NH2	24:1I:369:MET:SD	2.82	0.52
28:1e:19:VAL:HA	28:1e:22:ILE:HG12	1.90	0.52
60:3r:63:ARG:HA	60:3r:66:GLN:HB2	1.91	0.52
66:5L:171:ASN:ND2	66:5L:187:SER:O	2.42	0.52
1:A:10:GLY:HA2	1:A:143:THR:HG23	1.92	0.52
2:AC:180:ALA:HB3	2:AC:183:GLU:HB2	1.91	0.52
2:AC:251:ASP:H	2:AC:254:GLU:CB	2.22	0.52
1:AD:66:MET:HE3	1:AD:147:MET:HE2	1.91	0.52
1:AF:235:GLY:HA3	1:AF:366:THR:HG21	1.91	0.52
1:AF:272:PRO:HD3	1:AF:364:SER:HA	1.90	0.52
2:AI:70:LEU:HD12	2:AI:99:ALA:HB2	1.92	0.52
1:BB:36:TYR:OH	1:BB:40:SER:O	2.27	0.52
2:BC:6:CYS:HB3	2:BC:138:PHE:HE1	1.74	0.52
2:BE:237:SER:HA	2:BE:320:ARG:HD2	1.91	0.52
1:BF:113:ILE:HG13	1:BF:117:LEU:HD23	1.91	0.52
1:BH:293:MET:HG3	1:BH:367:PHE:HB2	1.90	0.52
2:BI:11:GLN:HG3	2:BI:74:VAL:HG11	1.91	0.52
1:BL:206:ALA:HB2	1:BL:302:ALA:HB2	1.90	0.52
2:CB:155:GLU:HG2	2:CB:197:HIS:CE1	2.44	0.52
1:CC:87:PRO:HD3	1:DC:281:TYR:HE2	1.74	0.52
1:CG:237:THR:OG1	1:CG:241:ARG:NH1	2.41	0.52
1:CI:189:VAL:HG11	1:CI:415:MET:SD	2.49	0.52
1:CI:323:THR:HA	1:CI:326:VAL:HG12	1.91	0.52
1:CM:34:GLY:HA3	1:CM:58:ARG:HG3	1.91	0.52
1:DE:249:ASP:OD1	1:DE:252:LYS:HB2	2.10	0.52
1:DM:236:VAL:HG13	1:DM:237:THR:HG23	1.91	0.52
1:EB:166:THR:HG21	1:EB:192:LEU:HD22	1.91	0.52
1:EB:190:HIS:HB2	1:EB:414:ASN:ND2	2.21	0.52
1:ED:209:ASP:OD2	1:ED:213:ARG:NH2	2.39	0.52
1:ED:332:ASN:O	1:ED:336:LYS:HG2	2.09	0.52
1:EF:252:LYS:HG3	1:EF:350:LYS:HZ3	1.75	0.52
1:EF:267:MET:HE3	1:EF:301:GLN:NE2	2.24	0.52
1:EF:350:LYS:HD2	2:EG:179:THR:O	2.09	0.52
2:EG:123:ARG:HD2	63:4I:248:GLY:C	2.35	0.52
2:EG:138:PHE:HE2	2:EG:235:VAL:HG21	1.73	0.52
2:EG:167:LEU:HD23	2:EG:200:VAL:HB	1.91	0.52
1:EH:113:ILE:HG13	1:EH:117:LEU:HD23	1.92	0.52
2:EK:259:LEU:O	2:EK:314:SER:OG	2.22	0.52
1:EL:103:LYS:HA	1:EL:107:THR:HG22	1.91	0.52
1:EL:190:HIS:HA	1:EL:193:VAL:HG22	1.92	0.52
1:F:8:GLN:HG2	1:F:17:GLY:HA3	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:239:CYS:HB3	1:F:248:SER:H	1.75	0.52
1:FJ:280:GLN:NE2	24:1J:438:ASP:OD2	2.42	0.52
2:GC:213:THR:HG22	2:GC:219:ILE:HB	1.90	0.52
1:GD:213:ARG:NH2	1:GD:297:LYS:HE3	2.24	0.52
1:GD:406:MET:HE1	66:5K:207:ASN:HD21	1.74	0.52
2:GI:264:ARG:HH11	66:5L:174:ARG:HH12	1.57	0.52
2:GK:71:GLU:HB3	2:GK:98:ASP:HB2	1.91	0.52
1:HF:185:THR:O	1:HF:189:VAL:HG23	2.09	0.52
1:HH:350:LYS:NZ	1:HH:352:SER:OG	2.37	0.52
1:HJ:3:GLU:O	1:HJ:131:GLN:N	2.36	0.52
1:HL:299:MET:HG3	1:HL:301:GLN:H	1.74	0.52
1:ID:61:PRO:HD3	1:ID:84:LEU:HG	1.91	0.52
2:IG:246:GLY:HA2	2:IG:357:TYR:CD1	2.44	0.52
2:IK:2:ARG:NH1	1:IL:69:GLU:OE1	2.42	0.52
2:IK:145:THR:N	71:IK:501:GTP:O2G	2.24	0.52
2:IK:254:GLU:OE2	1:IL:99:ASN:N	2.42	0.52
2:IM:209:ILE:HG21	2:IM:227:VAL:HG22	1.91	0.52
2:JB:388:PHE:HA	2:JB:391:ILE:HG22	1.91	0.52
1:JC:272:PRO:HD3	1:JC:364:SER:HA	1.91	0.52
1:JC:417:ASP:OD1	1:JC:418:LEU:N	2.42	0.52
2:JF:345:ASP:OD1	2:JF:346:TRP:N	2.42	0.52
2:JL:268:VAL:HG11	2:JL:378:ILE:HG22	1.90	0.52
1:JM:313:ALA:HB3	1:JM:349:ILE:HG12	1.92	0.52
2:JN:5:ILE:HG22	2:JN:135:PHE:CD1	2.43	0.52
2:KB:259:LEU:HD21	2:KB:268:VAL:HG11	1.91	0.52
1:KE:323:THR:HG21	2:KF:224:TYR:CE1	2.45	0.52
2:L:364:PRO:HG3	44:2v:330:LYS:HG3	1.91	0.52
2:LF:213:THR:HG22	2:LF:217:LEU:HD12	1.90	0.52
1:LG:3:GLU:HG3	1:LG:127:CYS:HB3	1.91	0.52
1:LI:392:LYS:HE3	13:0Z:132:PRO:HD3	1.91	0.52
2:LJ:338:LYS:NZ	2:LJ:340:THR:OG1	2.21	0.52
1:M:313:ALA:HB3	1:M:349:ILE:HG12	1.90	0.52
2:MA:335:ILE:HG23	2:MA:341:ILE:HD11	1.91	0.52
1:MB:285:SER:HB3	29:1k:225:TYR:CE1	2.44	0.52
2:MC:188:VAL:O	2:MC:191:THR:HG22	2.10	0.52
2:MG:251:ASP:H	2:MG:254:GLU:HB3	1.74	0.52
1:MH:322:SER:OG	2:MI:222:PRO:O	2.28	0.52
2:MI:254:GLU:OE1	1:MJ:99:ASN:N	2.42	0.52
2:MK:177:VAL:HG21	2:MK:210:TYR:HD2	1.74	0.52
2:MM:326:LYS:HE3	1:MN:220:PRO:HG2	1.90	0.52
1:NF:421:GLU:OE1	1:NF:424:GLN:NE2	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NG:264:ARG:HG3	2:NG:264:ARG:HH11	1.74	0.52
2:NM:185:TYR:OH	2:NM:403:ALA:O	2.14	0.52
2:NM:213:THR:HA	2:NM:217:LEU:HD23	1.92	0.52
1:O:379:ARG:HH21	1:O:423:GLN:HG3	1.74	0.52
1:OJ:287:ALA:HA	1:OJ:329:GLN:NE2	2.19	0.52
1:OL:139:LEU:HD23	1:OL:188:SER:HB2	1.91	0.52
1:P:200:MET:N	1:P:200:MET:SD	2.83	0.52
2:PA:94:SER:O	59:4a:98:SER:OG	2.22	0.52
2:PA:326:LYS:HZ3	1:PB:220:PRO:CD	2.21	0.52
2:PC:217:LEU:HD21	2:PC:275:VAL:HG22	1.92	0.52
1:PF:178:THR:HG22	1:PF:180:VAL:H	1.74	0.52
1:PF:247:ASN:H	2:PG:11:GLN:HE22	1.55	0.52
1:PF:344:TRP:CD2	2:PG:401:LYS:HD2	2.44	0.52
2:PG:98:ASP:O	2:PG:105:ARG:NH1	2.43	0.52
2:PG:255:PHE:O	2:PG:259:LEU:HB2	2.09	0.52
1:PH:144:GLY:N	69:PH:500:GDP:O2B	2.29	0.52
1:PJ:131:GLN:NE2	2:PK:97:GLU:OE2	2.37	0.52
1:PL:198:GLU:HB2	1:PL:266:PHE:CE1	2.43	0.52
2:QJ:318:MET:O	2:QJ:375:VAL:HA	2.10	0.52
2:QL:11:GLN:HA	2:QL:74:VAL:HG11	1.91	0.52
1:RC:235:GLY:HA3	1:RC:366:THR:HG21	1.92	0.52
2:RL:362:VAL:HG21	41:2f:474:GLN:HE22	1.74	0.52
1:S:309:ARG:HD3	1:S:342:ILE:HG12	1.90	0.52
2:SG:170:THR:HG21	2:SG:194:LEU:HD21	1.91	0.52
2:SG:191:THR:HG21	2:SG:425:LEU:HD13	1.91	0.52
2:SG:439:SER:O	57:3g:138:LYS:NZ	2.36	0.52
2:SK:123:ARG:CZ	61:3x:109:GLU:OE2	2.58	0.52
2:SK:245:ASP:N	2:SK:245:ASP:OD1	2.41	0.52
1:TB:158:GLU:HG3	1:TB:159:TYR:CD2	2.44	0.52
2:TC:67:PHE:HB2	2:TC:92:LEU:HD12	1.91	0.52
2:TE:104:ALA:HB2	2:TE:413:MET:HE3	1.89	0.52
2:TI:209:ILE:HG23	2:TI:230:LEU:HD23	1.90	0.52
1:TJ:86:ARG:NH2	1:TJ:123:GLU:OE2	2.43	0.52
1:TJ:421:GLU:HA	1:TJ:424:GLN:HE21	1.73	0.52
1:U:282:ARG:HH21	1:U:288:GLU:HB3	1.75	0.52
2:UA:2:ARG:NH2	2:UA:47:ASP:OD2	2.31	0.52
2:UI:237:SER:HA	2:UI:320:ARG:HD2	1.91	0.52
1:V:66:MET:HE2	1:V:116:VAL:HG11	1.92	0.52
2:VC:117:LEU:HD13	2:VC:121:ARG:NH1	2.24	0.52
1:VD:326:VAL:O	1:VD:330:MET:HG2	2.09	0.52
1:VF:236:VAL:HG13	1:VF:237:THR:HG23	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VF:327:ASP:HB3	2:VG:177:VAL:HG13	1.90	0.52
2:VG:387:VAL:O	2:VG:391:ILE:HG12	2.09	0.52
1:VH:8:GLN:HG2	1:VH:17:GLY:HA3	1.90	0.52
2:VK:241:SER:HB2	2:VK:250:VAL:H	1.74	0.52
1:WF:155:LEU:O	1:WF:164:MET:HE1	2.10	0.52
2:WG:406:HIS:HA	2:WG:409:VAL:HG22	1.92	0.52
1:WJ:249:ASP:H	1:WJ:252:LYS:HB3	1.75	0.52
3:XA:91:VAL:HG11	3:XA:136:LEU:HD11	1.91	0.52
3:XB:7:GLN:NE2	3:XB:70:GLY:O	2.41	0.52
7:0C:271:ARG:O	7:0C:275:SER:OG	2.20	0.52
8:0G:413:LEU:HD12	53:3W:307:LEU:HB3	1.91	0.52
8:0I:100:THR:HA	8:0I:104:ILE:HD12	1.91	0.52
9:0L:70:SER:HB2	9:0L:120:GLU:HG2	1.91	0.52
9:0L:329:ASP:OD1	9:0L:330:ILE:N	2.43	0.52
14:0c:310:SER:OG	14:0c:311:LYS:N	2.42	0.52
14:0d:344:ILE:HG12	21:0w:55:LEU:HD22	1.91	0.52
15:0f:78:MET:HG3	15:0f:89:ILE:HD13	1.90	0.52
17:0n:64:ASP:O	17:0n:68:LEU:HG	2.08	0.52
20:0t:121:GLN:C	20:0t:123:ASP:H	2.17	0.52
24:1H:738:GLY:HA2	24:1H:745:THR:HB	1.92	0.52
26:1Q:428:PHE:HE2	26:1Q:502:LEU:HB3	1.74	0.52
27:1S:181:ARG:NE	37:2S:113:CYS:SG	2.82	0.52
28:1Y:20:CYS:SG	28:1Y:21:ARG:N	2.83	0.52
29:1l:12:ASP:OD1	29:1l:13:GLY:N	2.43	0.52
32:2C:113:LYS:HA	32:2C:116:ARG:HE	1.74	0.52
32:2C:207:PRO:HB3	32:2C:230:VAL:HG23	1.91	0.52
46:3B:369:ARG:HG2	46:3B:405:GLU:HG3	1.91	0.52
1:AJ:267:MET:HE3	1:AJ:371:ASN:HB3	1.92	0.52
2:AK:326:LYS:HG2	1:AL:212:PHE:CZ	2.45	0.52
2:AK:326:LYS:NZ	1:AL:220:PRO:HD2	2.25	0.52
2:AM:383:ALA:O	2:AM:386:GLU:HG2	2.10	0.52
2:BA:325:PRO:HA	2:BA:328:VAL:HB	1.91	0.52
2:BA:367:ASP:HB3	16:0k:806:HIS:HD2	1.74	0.52
1:BB:293:MET:HE3	1:BB:367:PHE:CD1	2.45	0.52
2:BG:254:GLU:HA	1:BH:98:GLY:CA	2.37	0.52
1:BL:139:LEU:HD12	1:BL:170:ILE:HG12	1.91	0.52
2:CB:326:LYS:HE3	1:CC:208:TYR:CE1	2.44	0.52
1:CC:245:GLN:OE1	2:CD:223:SER:OG	2.22	0.52
2:CD:439:SER:HB2	1:CE:390:ARG:HH22	1.74	0.52
1:CE:350:LYS:HZ3	2:CF:179:THR:HG22	1.74	0.52
2:CH:179:THR:HG1	71:CH:501:GTP:HO3'	1.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CI:73:MET:HB3	1:CI:90:PHE:HD2	1.75	0.52
2:CJ:7:ILE:HD12	2:CJ:137:VAL:HG22	1.91	0.52
1:CM:28:HIS:ND1	1:CM:43:GLN:O	2.38	0.52
2:DB:70:LEU:HD11	2:DB:149:LEU:HD22	1.91	0.52
1:DC:325:GLU:OE2	2:DD:221:ARG:HG3	2.10	0.52
1:DE:246:LEU:HD21	2:DF:179:THR:HG21	1.90	0.52
2:DH:239:THR:HG23	2:DH:243:ARG:HH11	1.74	0.52
2:DJ:250:VAL:HG11	2:DJ:352:LYS:HE3	1.91	0.52
1:E:375:GLN:HB3	1:E:422:TYR:HD2	1.75	0.52
1:EF:323:THR:HA	1:EF:326:VAL:HG22	1.91	0.52
2:FA:406:HIS:HA	2:FA:409:VAL:HG22	1.90	0.52
1:FD:247:ASN:H	2:FE:11:GLN:HE22	1.58	0.52
2:FG:6:CYS:O	2:FG:65:CYS:HA	2.08	0.52
1:FJ:173:PRO:HA	1:FJ:176:SER:HB2	1.91	0.52
2:FK:133:GLN:HB3	2:FK:252:LEU:HD12	1.92	0.52
1:G:345:ILE:HG23	1:G:348:ASN:OD1	2.10	0.52
1:GB:20:PHE:HA	1:GB:230:ALA:HB1	1.90	0.52
2:GC:234:VAL:HG13	2:GC:376:CYS:SG	2.49	0.52
2:GI:187:CYS:O	2:GI:191:THR:HG23	2.09	0.52
2:GK:57:GLY:C	17:0n:141:GLN:HG2	2.34	0.52
2:GK:138:PHE:HE1	2:GK:235:VAL:HG21	1.74	0.52
1:H:73:MET:HE3	1:H:73:MET:HA	1.92	0.52
2:HA:277:SER:O	2:HA:281:ALA:HB2	2.08	0.52
1:HL:163:ILE:HG12	1:HL:251:ARG:HH21	1.75	0.52
1:HL:232:VAL:HG11	1:HL:268:MET:HB3	1.91	0.52
1:IB:316:LEU:HB2	1:IB:366:THR:OG1	2.08	0.52
2:IC:167:LEU:HG	2:IC:200:VAL:HB	1.91	0.52
2:IC:328:VAL:O	2:IC:332:ILE:HG12	2.10	0.52
2:IG:79:ARG:HH22	2:IG:94:SER:HB3	1.73	0.52
2:IG:173:PRO:HG3	2:IG:183:GLU:HG2	1.92	0.52
2:IG:216:SER:HA	2:IG:280:LYS:NZ	2.25	0.52
2:IG:270:THR:HG23	2:IG:302:LEU:HB2	1.90	0.52
1:IL:197:ASP:OD1	1:IL:198:GLU:N	2.43	0.52
2:J:322:ASP:OD1	38:2U:135:ARG:HD3	2.10	0.52
2:JH:430:LYS:NZ	60:3s:75:ILE:HG23	2.24	0.52
1:JK:62:ARG:HD3	1:JK:123:GLU:OE2	2.09	0.52
2:JL:9:ILE:HD11	2:JL:153:LEU:HD23	1.92	0.52
2:JL:192:HIS:HE1	2:JL:420:GLU:HG2	1.75	0.52
2:JN:192:HIS:ND1	2:JN:424:ASP:OD2	2.42	0.52
2:JN:402:ARG:HB3	2:JN:405:VAL:HG11	1.91	0.52
1:KA:350:LYS:HD2	2:KB:179:THR:HG22	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KB:317:LEU:HD23	2:KB:377:MET:HB2	1.90	0.52
2:KB:431:ASP:OD2	2:KB:432:TYR:N	2.42	0.52
1:KK:255:VAL:HG11	2:KL:100:ALA:O	2.10	0.52
1:KM:323:THR:HG21	2:KN:224:TYR:CZ	2.44	0.52
2:LB:192:HIS:NE2	2:LB:421:ALA:HA	2.25	0.52
1:LE:334:GLN:NE2	1:LE:349:ILE:HG13	2.25	0.52
1:LE:336:LYS:NZ	35:2N:215:ARG:HG3	2.25	0.52
1:LG:186:THR:HA	1:LG:189:VAL:HG12	1.91	0.52
1:LI:410:GLU:O	1:LI:414:ASN:ND2	2.43	0.52
2:LN:254:GLU:OE2	1:LO:99:ASN:N	2.41	0.52
2:LN:288:VAL:HB	2:LN:327:ASP:HB3	1.92	0.52
1:LO:404:ASP:OD2	1:LO:406:MET:HG3	2.10	0.52
1:M:362:LYS:HD2	1:M:363:MET:HE3	1.90	0.52
1:MD:27:GLU:OE1	1:MD:241:ARG:NH1	2.42	0.52
1:MD:417:ASP:OD1	32:2B:32:SER:OG	2.23	0.52
2:ME:9:ILE:HD13	2:ME:150:GLY:HA2	1.91	0.52
1:MH:63:ALA:O	1:MH:89:ASN:ND2	2.33	0.52
1:MH:309:ARG:NH1	1:MH:427:ASP:O	2.43	0.52
2:MI:91:GLN:H	2:MI:121:ARG:HH11	1.56	0.52
2:MI:194:LEU:O	2:MI:198:THR:HB	2.09	0.52
1:ML:113:ILE:HG13	1:ML:117:LEU:HD23	1.91	0.52
1:N:113:ILE:HG13	1:N:117:LEU:HD23	1.92	0.52
1:ND:2:ARG:HE	1:ND:2:ARG:HA	1.74	0.52
1:ND:316:LEU:HD23	1:ND:352:SER:HB2	1.91	0.52
1:NL:3:GLU:O	1:NL:131:GLN:N	2.43	0.52
1:NL:66:MET:HE2	1:NL:147:MET:HE1	1.91	0.52
2:NM:70:LEU:HD23	2:NM:145:THR:HG23	1.90	0.52
2:NM:107:HIS:HD2	2:NM:151:ALA:HB3	1.74	0.52
2:NM:185:TYR:CE1	2:NM:398:MET:HB3	2.44	0.52
1:OB:309:ARG:NH2	1:OB:341:PHE:O	2.36	0.52
2:OC:93:VAL:HG21	2:OC:117:LEU:HD22	1.90	0.52
1:OD:324:LYS:NZ	2:OE:222:PRO:HD2	2.24	0.52
1:OJ:289:LEU:O	1:OJ:293:MET:HG3	2.10	0.52
1:OL:22:GLU:HG3	1:OL:81:TYR:HE1	1.74	0.52
1:P:193:VAL:HA	1:P:264:HIS:NE2	2.24	0.52
1:PD:299:MET:HE3	1:PD:300:MET:H	1.74	0.52
1:PJ:331:LEU:HB2	2:PK:177:VAL:HG12	1.91	0.52
2:PK:209:ILE:HG12	2:PK:302:LEU:HD22	1.91	0.52
2:PK:265:ILE:HG23	2:PK:432:TYR:HE1	1.73	0.52
2:PM:311:LYS:NZ	2:PM:344:VAL:HA	2.25	0.52
2:Q:79:ARG:O	2:Q:84:ARG:HG3	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QD:195:LEU:HD11	2:QD:428:LEU:HD13	1.91	0.52
2:QH:270:THR:HG23	2:QH:302:LEU:HB2	1.92	0.52
1:QI:48:ASN:O	1:QI:62:ARG:NH1	2.43	0.52
1:QI:374:ILE:HG23	1:QI:377:MET:HE2	1.92	0.52
1:QK:208:TYR:CE1	1:QK:225:LEU:HD13	2.44	0.52
2:QL:101:ASN:HA	2:QL:144:GLY:N	2.25	0.52
2:QL:234:VAL:HG21	2:QL:302:LEU:HD11	1.92	0.52
1:RA:81:TYR:HE1	28:1X:175:LEU:HD11	1.73	0.52
1:RC:200:MET:HG2	1:RC:268:MET:SD	2.50	0.52
2:RD:66:LEU:HD13	2:RD:122:ILE:HD13	1.90	0.52
2:RD:308:ARG:NH1	2:RD:308:ARG:HB2	2.24	0.52
1:RG:140:GLY:HA3	1:RG:181:GLU:OE2	2.09	0.52
2:RJ:184:PRO:HG3	2:RJ:394:LYS:HD2	1.92	0.52
2:RL:298:PRO:HG3	2:RL:308:ARG:NH2	2.15	0.52
1:S:33:THR:HG23	1:S:35:THR:HG23	1.91	0.52
1:S:148:GLY:O	1:S:152:ILE:HG13	2.09	0.52
1:S:175:VAL:HG12	1:S:175:VAL:O	2.10	0.52
2:SA:237:SER:HA	2:SA:320:ARG:HD2	1.90	0.52
2:SA:313:MET:SD	2:SA:382:THR:HG23	2.50	0.52
2:SC:89:PRO:HD3	2:TC:283:HIS:HD1	1.73	0.52
1:SD:232:VAL:HG11	1:SD:300:MET:HE1	1.92	0.52
1:SD:344:TRP:H	1:SD:344:TRP:CD1	2.25	0.52
1:TF:379:ARG:HG3	1:TF:419:VAL:HG11	1.90	0.52
2:TK:254:GLU:OE1	1:TL:99:ASN:HB2	2.10	0.52
1:U:222:PHE:O	1:U:226:ASN:ND2	2.42	0.52
1:UB:249:ASP:OD2	1:UB:252:LYS:HB2	2.10	0.52
2:UC:204:LEU:HD13	2:UC:231:ILE:CD1	2.40	0.52
1:UF:211:CYS:HB3	1:UF:220:PRO:HG3	1.92	0.52
1:UH:3:GLU:O	1:UH:131:GLN:N	2.37	0.52
2:UI:138:PHE:HE2	2:UI:235:VAL:HG21	1.75	0.52
1:V:276:ARG:HG2	8:0F:177:GLN:HE22	1.75	0.52
1:VB:268:MET:HE1	1:VB:366:THR:HG23	1.90	0.52
1:VD:309:ARG:HG3	1:VD:309:ARG:HH11	1.75	0.52
2:VE:406:HIS:HA	2:VE:409:VAL:HG22	1.90	0.52
1:VF:83:GLN:O	1:WF:281:TYR:OH	2.21	0.52
2:VG:2:ARG:HG2	2:VG:133:GLN:HE21	1.73	0.52
2:VG:198:THR:HG21	2:VG:201:ALA:HB2	1.92	0.52
2:VG:241:SER:HB2	2:VG:318:MET:HE1	1.90	0.52
2:VI:241:SER:HG	2:VI:250:VAL:H	1.56	0.52
2:VI:399:TYR:OH	2:VI:415:GLU:OE2	2.22	0.52
2:VK:155:GLU:HG2	2:VK:197:HIS:CE1	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VL:210:ILE:O	1:VL:214:THR:OG1	2.24	0.52
1:WJ:60:VAL:HG11	1:WJ:86:ARG:HB2	1.92	0.52
2:WM:122:ILE:HD13	2:WM:157:LEU:HD21	1.91	0.52
7:0D:96:ARG:HG3	7:0D:99:MET:SD	2.50	0.52
8:0F:74:THR:HG23	8:0F:77:ALA:H	1.74	0.52
8:0F:171:GLN:O	8:0F:175:THR:HG23	2.09	0.52
8:0I:83:ARG:HH22	9:0M:581:ARG:NH1	2.08	0.52
10:0R:309:ARG:HH12	10:0R:313:GLU:HB3	1.74	0.52
12:0W:82:ASP:O	12:0W:85:THR:OG1	2.24	0.52
20:0u:123:ASP:OD1	23:1F:335:ASN:ND2	2.42	0.52
22:0z:258:LEU:O	22:0z:262:ILE:HG13	2.09	0.52
23:1B:262:SER:O	23:1B:266:MET:HG2	2.08	0.52
24:1I:253:LYS:HB3	24:1I:280:LEU:HD12	1.91	0.52
24:1I:734:ARG:HB3	24:1I:740:SER:HB2	1.91	0.52
25:1O:286:LEU:HB3	25:1O:297:LEU:HD11	1.92	0.52
28:1X:147:GLY:O	28:1X:151:GLU:HG3	2.09	0.52
32:2C:123:ARG:HH22	32:2C:227:PRO:C	2.16	0.52
35:2O:45:HIS:HB3	35:2O:49:ALA:HB3	1.91	0.52
36:2Q:30:VAL:HG21	36:2Q:71:ILE:HD12	1.92	0.52
43:2t:376:THR:HG22	43:2t:378:ASN:H	1.74	0.52
44:2w:244:GLY:HA2	49:3Q:395:THR:HB	1.92	0.52
48:3G:111:ASN:OD1	48:3G:112:LYS:N	2.42	0.52
66:5L:153:SER:HB2	66:5L:168:ARG:HD2	1.90	0.52
2:AA:215:ARG:NH1	2:AA:299:ALA:O	2.43	0.52
1:AB:173:PRO:HD2	1:AB:380:ARG:CZ	2.40	0.52
2:AC:223:SER:OG	2:AC:224:TYR:N	2.41	0.52
1:AF:86:ARG:NH1	1:BF:281:TYR:O	2.43	0.52
1:AJ:249:ASP:H	1:AJ:252:LYS:HB2	1.74	0.52
2:AK:115:VAL:HG22	2:AK:119:LEU:HD23	1.92	0.52
2:AK:295:VAL:HG12	2:AK:377:MET:HE2	1.91	0.52
1:AL:113:ILE:HG13	1:AL:117:LEU:HD23	1.92	0.52
2:AM:406:HIS:HA	2:AM:409:VAL:HG12	1.92	0.52
2:BG:223:SER:OG	2:BG:224:TYR:N	2.43	0.52
2:BI:251:ASP:HB2	2:BI:254:GLU:HG2	1.90	0.52
2:BK:67:PHE:HB2	2:BK:92:LEU:HD12	1.90	0.52
2:C:328:VAL:HG21	2:C:355:ILE:HD11	1.91	0.52
1:CC:139:LEU:HG	1:CC:168:SER:HB2	1.92	0.52
2:CD:120:ASP:O	2:CD:123:ARG:HG3	2.09	0.52
1:CI:331:LEU:HD22	2:CJ:177:VAL:HG22	1.91	0.52
1:CI:345:ILE:HG23	2:CJ:398:MET:HE2	1.91	0.52
2:CL:209:ILE:CD1	2:CL:302:LEU:HD11	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:69:ASP:OD1	2:D:70:LEU:N	2.43	0.52
2:DB:167:LEU:HD13	2:DB:200:VAL:HB	1.90	0.52
1:DC:175:VAL:HG11	1:DC:204:ASN:HB2	1.92	0.52
2:DD:225:THR:HG22	2:DD:229:ARG:HE	1.74	0.52
2:DH:195:LEU:HA	2:DH:266:HIS:CE1	2.45	0.52
2:DL:209:ILE:HG21	2:DL:227:VAL:HG13	1.92	0.52
2:EE:136:MET:HG2	2:EE:169:TYR:HE2	1.74	0.52
2:EG:79:ARG:HH22	2:EG:94:SER:HG	1.55	0.52
1:FH:323:THR:HG22	2:FI:223:SER:HA	1.91	0.52
1:GD:101:TRP:CE3	1:GD:187:LEU:HD13	2.45	0.52
1:GH:134:GLN:HG3	1:GH:165:MET:HG3	1.91	0.52
2:GI:51:THR:HG21	2:GI:243:ARG:HG2	1.91	0.52
2:GK:298:PRO:HA	2:GK:301:MET:HE2	1.91	0.52
1:HB:175:VAL:N	1:HB:205:GLU:OE2	2.41	0.52
2:HC:114:ILE:HD12	2:HC:117:LEU:HD21	1.92	0.52
2:HC:236:SER:HA	2:HC:239:THR:HG22	1.91	0.52
2:HE:377:MET:HE2	2:HE:377:MET:HA	1.92	0.52
2:HG:97:GLU:OE1	2:HG:105:ARG:NH1	2.43	0.52
1:HH:165:MET:HE1	1:HH:167:PHE:CZ	2.43	0.52
1:HH:270:PHE:O	1:HH:298:ASN:ND2	2.39	0.52
1:HL:309:ARG:H	1:HL:372:THR:HG1	1.57	0.52
2:HM:88:ASN:OD1	2:HM:89:PRO:HD2	2.10	0.52
1:I:99:ASN:O	1:I:398:TYR:OH	2.25	0.52
1:ID:232:VAL:HG22	1:ID:268:MET:HE2	1.91	0.52
1:IF:61:PRO:HD3	1:IF:84:LEU:HG	1.91	0.52
1:IF:67:ASP:OD1	1:IF:68:LEU:N	2.43	0.52
2:J:306:ASP:CG	2:J:308:ARG:HE	2.18	0.52
1:JA:324:LYS:HZ3	2:JB:222:PRO:HG2	1.75	0.52
2:JB:250:VAL:HA	2:JB:254:GLU:HG2	1.91	0.52
1:JC:46:ARG:NH2	2:JD:76:ASP:OD2	2.42	0.52
2:JD:319:TYR:CD2	2:JD:323:VAL:HG11	2.45	0.52
1:JE:311:LEU:HA	1:JE:342:ILE:HD12	1.90	0.52
1:JG:257:LEU:HD21	1:JG:314:SER:HB3	1.91	0.52
2:JH:195:LEU:HD11	2:JH:428:LEU:HD13	1.90	0.52
2:JH:252:LEU:HA	2:JH:255:PHE:CE1	2.44	0.52
2:JH:388:PHE:HA	2:JH:391:ILE:HG22	1.91	0.52
2:KB:1:MET:N	2:KB:3:GLU:OE2	2.39	0.52
1:KE:58:ARG:HD2	1:LE:280:GLN:HB3	1.92	0.52
2:KH:77:GLU:OE1	19:0r:237:TYR:HD2	1.93	0.52
2:KL:173:PRO:HG3	2:KL:183:GLU:HG2	1.91	0.52
1:KM:62:ARG:NH1	1:KM:127:CYS:SG	2.82	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LB:366:GLY:O	23:1E:373:ARG:NH2	2.42	0.52
1:LE:93:GLY:HA2	32:2B:245:PHE:CZ	2.44	0.52
1:LE:217:LEU:HB2	23:1E:277:GLU:OE1	2.10	0.52
2:LH:119:LEU:HD21	2:LH:156:ARG:HB3	1.90	0.52
2:LJ:228:ASN:OD1	71:LJ:501:GTP:N1	2.42	0.52
1:LK:117:LEU:HD12	14:0d:90:VAL:HG21	1.91	0.52
2:LN:80:THR:HG21	29:1l:213:LEU:HD12	1.92	0.52
1:M:10:GLY:O	1:M:14:ASN:ND2	2.41	0.52
1:M:172:SER:HB3	1:M:175:VAL:HG22	1.92	0.52
2:MI:251:ASP:HB2	2:MI:254:GLU:HG2	1.91	0.52
1:MN:416:ASN:HA	1:MN:419:VAL:HG12	1.91	0.52
1:N:56:GLY:HA3	41:2n:165:ARG:HD2	1.91	0.52
1:NH:249:ASP:H	1:NH:252:LYS:HB3	1.75	0.52
2:NI:328:VAL:O	2:NI:332:ILE:HG12	2.10	0.52
2:NK:5:ILE:HG12	2:NK:132:LEU:HD11	1.91	0.52
1:OB:221:THR:HG23	1:OB:223:GLY:H	1.75	0.52
1:OD:268:MET:HE1	1:OD:368:ILE:HG23	1.92	0.52
2:OE:298:PRO:HA	2:OE:301:MET:HE1	1.91	0.52
1:OJ:229:VAL:O	1:OJ:233:MET:HG3	2.09	0.52
2:OK:11:GLN:HG3	2:OK:74:VAL:HG11	1.91	0.52
2:OM:279:GLU:O	2:OM:283:HIS:ND1	2.42	0.52
2:PA:8:HIS:HE1	2:PA:21:TRP:HE1	1.58	0.52
1:PB:16:ILE:HD11	1:PB:229:VAL:HB	1.91	0.52
1:PD:163:ILE:HD11	1:PD:251:ARG:HG3	1.92	0.52
1:PF:8:GLN:HE22	1:PF:21:TRP:CD1	2.28	0.52
1:PF:172:SER:OG	1:PF:205:GLU:OE1	2.19	0.52
2:PG:219:ILE:HD11	2:PG:222:PRO:HB3	1.91	0.52
1:PH:207:LEU:HB3	1:PH:225:LEU:HD22	1.91	0.52
2:QB:396:ASP:OD2	2:QB:422:ARG:NE	2.26	0.52
2:QD:104:ALA:HB2	2:QD:413:MET:HE2	1.90	0.52
1:QE:201:CYS:HB3	1:QE:377:MET:HE1	1.90	0.52
2:QJ:26:LEU:HD12	2:QJ:363:VAL:HG22	1.91	0.52
1:QK:13:GLY:HA2	1:QK:16:ILE:HG12	1.91	0.52
2:QL:175:PRO:HG2	2:QL:304:LYS:HD2	1.92	0.52
1:RA:378:PHE:CD1	1:RA:415:MET:HE1	2.41	0.52
1:RC:386:THR:O	1:RC:390:ARG:HG3	2.10	0.52
2:RF:286:LEU:O	2:RF:373:ARG:NH1	2.41	0.52
2:SA:396:ASP:OD2	2:SA:422:ARG:NH2	2.41	0.52
1:SB:247:ASN:OD1	2:SC:11:GLN:NE2	2.42	0.52
2:SC:203:MET:HE3	2:SC:267:PHE:HB3	1.92	0.52
1:SD:326:VAL:O	1:SD:330:MET:HG2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SH:156:ARG:HH12	1:SH:197:ASP:CG	2.17	0.52
1:SJ:167:PHE:CZ	1:SJ:233:MET:HG3	2.44	0.52
2:SK:21:TRP:CZ2	2:SK:65:CYS:HB3	2.45	0.52
2:SK:369:ALA:HA	41:2c:258:GLN:HE22	1.74	0.52
1:T:313:ALA:HB1	1:T:367:PHE:CE1	2.44	0.52
1:TB:139:LEU:HG	1:TB:168:SER:HB2	1.91	0.52
1:TB:317:PHE:HB2	1:TB:353:ILE:HD13	1.91	0.52
2:TC:104:ALA:HB2	2:TC:413:MET:HE3	1.91	0.52
1:TH:10:GLY:O	1:TH:14:ASN:ND2	2.41	0.52
1:TH:88:ASP:OD2	1:TH:122:LYS:NZ	2.42	0.52
2:UC:72:PRO:O	2:UC:76:ASP:HB2	2.10	0.52
2:UE:216:SER:OG	2:UE:275:VAL:O	2.22	0.52
2:UG:253:THR:HA	2:UG:256:GLN:HB3	1.91	0.52
2:UK:68:LEU:HD13	2:UK:93:VAL:HB	1.92	0.52
1:V:10:GLY:HA2	1:V:143:THR:HG23	1.92	0.52
1:VD:293:MET:HG3	1:VD:367:PHE:HB2	1.91	0.52
2:VE:205:ASP:OD1	2:VE:303:THR:HA	2.09	0.52
1:VL:178:THR:HB	1:VL:181:GLU:HG3	1.92	0.52
1:W:91:ILE:HG22	1:W:112:LEU:HD21	1.91	0.52
2:WC:259:LEU:HD21	2:WC:316:CYS:HB2	1.91	0.52
2:WE:21:TRP:CZ2	2:WE:65:CYS:HB3	2.45	0.52
2:WG:251:ASP:H	2:WG:254:GLU:CG	2.22	0.52
1:WH:113:ILE:HG13	1:WH:117:LEU:HD23	1.92	0.52
2:WI:212:LEU:O	2:WI:216:SER:OG	2.27	0.52
1:WL:2:ARG:HH21	2:WM:72:PRO:HG2	1.74	0.52
8:0F:201:GLN:O	8:0F:205:ARG:HG2	2.09	0.52
9:0L:255:THR:O	9:0L:272:LYS:NZ	2.39	0.52
23:1E:230:ARG:O	23:1E:234:LYS:HG2	2.10	0.52
24:1K:647:ARG:HH12	24:1K:648:MET:HE2	1.74	0.52
22:1w:58:LYS:HA	22:1w:61:THR:HG22	1.91	0.52
22:1x:260:ARG:CD	41:2h:194:ARG:O	2.57	0.52
40:2Z:292:ASP:HB3	40:2Z:295:ALA:HB2	1.91	0.52
41:2l:242:ALA:O	41:2l:246:GLU:HG2	2.09	0.52
43:2t:271:VAL:HG21	43:2t:288:LEU:HD22	1.91	0.52
49:3P:346:PHE:HB3	49:3P:382:VAL:HG21	1.92	0.52
59:3p:153:GLY:O	59:3p:158:LYS:NZ	2.31	0.52
66:5K:158:VAL:HG22	66:5K:235:VAL:HG22	1.92	0.52
67:5O:40:PHE:HB2	67:5O:94:LEU:HB3	1.90	0.52
2:AA:186:ASN:OD1	2:AA:408:TYR:OH	2.26	0.52
1:AB:211:CYS:HB3	1:AB:217:LEU:HB2	1.92	0.52
2:AC:254:GLU:CD	1:AD:99:ASN:HB2	2.34	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:322:ASP:OD2	2:AC:373:ARG:NE	2.41	0.52
1:AH:268:MET:HA	1:AH:268:MET:HE3	1.91	0.52
2:AM:216:SER:OG	2:AM:275:VAL:O	2.21	0.52
1:AN:247:ASN:OD1	1:AN:248:SER:N	2.42	0.52
1:B:233:MET:O	1:B:236:VAL:HG12	2.09	0.52
1:BB:332:ASN:HB3	1:BB:336:LYS:NZ	2.25	0.52
1:BD:42:LEU:HD11	16:0k:276:TYR:HD1	1.75	0.52
1:BJ:139:LEU:HD13	1:BJ:168:SER:OG	2.10	0.52
2:BM:97:GLU:OE1	2:BM:105:ARG:NH2	2.43	0.52
2:C:26:LEU:O	24:1H:252:ARG:NH2	2.41	0.52
2:C:270:THR:HG22	2:C:378:ILE:HD13	1.91	0.52
1:CA:247:ASN:H	2:CB:11:GLN:HE22	1.58	0.52
1:CC:178:THR:HG22	1:CC:180:VAL:H	1.75	0.52
1:CE:316:LEU:HD23	1:CE:352:SER:HB2	1.92	0.52
2:CF:237:SER:HA	2:CF:320:ARG:HD2	1.92	0.52
2:D:183:GLU:OE2	71:D:501:GTP:O3'	2.27	0.52
2:DB:195:LEU:HD21	2:DB:428:LEU:HD13	1.91	0.52
2:DB:212:LEU:HD21	2:DB:275:VAL:HG11	1.90	0.52
2:DB:395:PHE:HE1	2:DB:418:PHE:HD2	1.57	0.52
2:DH:189:LEU:HD13	2:DH:413:MET:HE1	1.92	0.52
1:DK:152:ILE:HG22	1:DK:195:ASN:HB3	1.91	0.52
2:EC:223:SER:O	2:EC:227:VAL:HG23	2.10	0.52
2:EI:352:LYS:HD2	2:EI:353:CYS:N	2.25	0.52
1:EJ:344:TRP:CD2	2:EK:401:LYS:HD2	2.44	0.52
1:F:58:ARG:NH2	1:G:281:TYR:HE1	2.08	0.52
1:F:213:ARG:NH1	1:F:214:THR:OG1	2.43	0.52
1:F:268:MET:HE3	1:F:269:GLY:H	1.75	0.52
1:FD:313:ALA:HB3	1:FD:349:ILE:HG12	1.91	0.52
1:FF:163:ILE:HG21	1:FF:250:LEU:HB3	1.92	0.52
2:FI:155:GLU:HG2	2:FI:197:HIS:CE1	2.45	0.52
1:G:279:GLN:NE2	1:G:279:GLN:O	2.43	0.52
1:GB:198:GLU:HA	1:GB:264:HIS:HB2	1.92	0.52
2:GC:316:CYS:HB3	2:GC:378:ILE:HB	1.89	0.52
1:GD:340:TYR:OH	59:4O:190:SER:O	2.20	0.52
2:GI:143:GLY:HA3	71:GI:501:GTP:O3A	2.10	0.52
1:GJ:46:ARG:NH2	2:GK:76:ASP:OD2	2.42	0.52
1:HB:36:TYR:OH	1:HB:40:SER:O	2.27	0.52
1:HB:204:ASN:OD1	69:HB:500:GDP:O2'	2.28	0.52
1:HD:385:PHE:HE2	1:HD:412:GLU:HB2	1.74	0.52
1:HJ:286:VAL:HG11	1:HJ:325:GLU:HB3	1.91	0.52
2:HK:56:THR:HA	2:IK:285:GLN:HE22	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IA:230:LEU:O	2:IA:234:VAL:HG23	2.10	0.52
2:IC:77:GLU:CD	38:2U:194:GLU:HG3	2.35	0.52
1:ID:284:LEU:O	1:ID:362:LYS:NZ	2.43	0.52
1:ID:304:ASP:OD1	1:ID:306:ARG:NE	2.40	0.52
2:IE:167:LEU:HD22	2:IE:200:VAL:HB	1.91	0.52
1:IF:187:LEU:O	1:IF:190:HIS:NE2	2.42	0.52
1:IL:8:GLN:HG2	1:IL:17:GLY:HA3	1.92	0.52
2:J:339:ARG:NH1	2:J:342:GLN:OE1	2.29	0.52
2:JB:199:ASP:HB3	2:JB:256:GLN:NE2	2.25	0.52
2:JH:209:ILE:HD11	2:JH:231:ILE:HD11	1.92	0.52
1:JI:323:THR:HG21	2:JJ:224:TYR:CZ	2.44	0.52
2:JJ:265:ILE:HG21	2:JJ:313:MET:HE1	1.90	0.52
2:JJ:406:HIS:HA	2:JJ:409:VAL:HG22	1.91	0.52
1:JK:310:TYR:HD2	1:JK:341:PHE:CE2	2.28	0.52
2:JN:351:PHE:O	2:JN:352:LYS:HD3	2.09	0.52
2:KB:189:LEU:HD13	2:KB:413:MET:HE1	1.92	0.52
1:KC:131:GLN:HE22	1:KC:250:LEU:HB2	1.74	0.52
1:KC:167:PHE:CE1	1:KC:200:MET:HG2	2.44	0.52
1:KE:236:VAL:HG13	1:KE:237:THR:HG23	1.92	0.52
1:KI:173:PRO:HA	1:KI:176:SER:HB3	1.92	0.52
2:KJ:172:TYR:CD2	2:KJ:203:MET:HG3	2.45	0.52
1:KK:33:THR:O	1:KK:58:ARG:NH2	2.42	0.52
2:KN:431:ASP:OD1	2:KN:432:TYR:N	2.43	0.52
2:LB:241:SER:HB3	2:LB:318:MET:HE1	1.91	0.52
1:LC:173:PRO:HA	1:LC:176:SER:HB2	1.91	0.52
1:LG:175:VAL:HG12	1:LG:175:VAL:O	2.10	0.52
2:LN:246:GLY:HA3	2:LN:356:ASN:HA	1.91	0.52
2:MC:396:ASP:OD2	2:MC:397:LEU:N	2.42	0.52
1:MD:242:PHE:HB2	1:MD:354:CYS:SG	2.49	0.52
2:ME:335:ILE:HG13	2:ME:341:ILE:HD11	1.91	0.52
1:MF:330:MET:SD	1:MF:349:ILE:HG21	2.49	0.52
1:MH:3:GLU:O	1:MH:131:GLN:N	2.43	0.52
1:MH:27:GLU:HA	1:MH:359:LYS:HD2	1.91	0.52
2:MK:254:GLU:OE1	2:MK:258:ASN:ND2	2.42	0.52
2:MK:372:GLN:HE22	2:MK:373:ARG:CZ	2.22	0.52
2:MM:312:TYR:HB2	2:MM:343:PHE:HA	1.92	0.52
1:N:173:PRO:HD2	1:N:380:ARG:NH1	2.25	0.52
2:NC:387:VAL:O	2:NC:391:ILE:HG12	2.09	0.52
2:NE:223:SER:OG	2:NE:224:TYR:N	2.42	0.52
1:NJ:276:ARG:HH21	18:0p:192:MET:HB3	1.75	0.52
2:OA:119:LEU:O	2:OA:123:ARG:HG2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OB:177:ASP:OD2	69:OB:500:GDP:O2'	2.21	0.52
1:OB:207:LEU:HB3	1:OB:225:LEU:HD22	1.91	0.52
1:OD:380:ARG:O	1:OD:384:GLN:HG3	2.08	0.52
2:OE:293:ASN:O	2:OE:297:GLU:HG2	2.10	0.52
1:OJ:217:LEU:HB2	1:OJ:220:PRO:HG3	1.91	0.52
1:P:322:SER:HB3	2:PA:221:ARG:CZ	2.40	0.52
2:PA:402:ARG:HG3	2:PA:402:ARG:HH11	1.75	0.52
2:PC:174:SER:HB3	2:PC:177:VAL:O	2.08	0.52
2:PE:209:ILE:HG12	2:PE:302:LEU:HD22	1.90	0.52
1:PF:324:LYS:HD3	2:PG:222:PRO:HD2	1.92	0.52
1:QA:392:LYS:HD3	1:QA:395:LEU:HD23	1.91	0.52
2:QD:270:THR:HA	2:QD:377:MET:O	2.09	0.52
2:QF:213:THR:HA	2:QF:217:LEU:HD12	1.91	0.52
1:QI:68:LEU:HD12	1:QI:97:ALA:HB2	1.90	0.52
2:QJ:225:THR:HG21	28:1b:190:GLU:HG3	1.91	0.52
1:QK:226:ASN:O	1:QK:229:VAL:HG22	2.10	0.52
1:QK:251:ARG:HH12	2:QL:105:ARG:CZ	2.23	0.52
1:QK:404:ASP:OD1	1:QK:405:GLU:N	2.42	0.52
1:RA:19:LYS:NZ	1:RA:227:HIS:HB2	2.23	0.52
1:RE:8:GLN:OE1	1:RE:17:GLY:HA3	2.09	0.52
1:S:173:PRO:HA	1:S:176:SER:HB2	1.92	0.52
1:SF:386:THR:HG22	1:SF:412:GLU:OE2	2.10	0.52
2:SG:2:ARG:NH1	2:SG:242:LEU:O	2.43	0.52
2:SG:3:GLU:HA	2:SG:51:THR:HA	1.92	0.52
1:SH:150:LEU:O	1:SH:154:LYS:HG2	2.08	0.52
1:SJ:112:LEU:HD23	1:SJ:116:VAL:HG23	1.91	0.52
2:SK:67:PHE:HB2	2:SK:92:LEU:HD13	1.91	0.52
1:T:65:LEU:HD22	1:T:90:PHE:CE1	2.45	0.52
1:TD:100:ASN:HB2	1:TD:103:LYS:HB2	1.90	0.52
1:TD:375:GLN:HA	1:TD:378:PHE:HD2	1.74	0.52
1:TH:27:GLU:OE1	1:TH:241:ARG:NH2	2.42	0.52
2:TK:11:GLN:O	2:TK:15:GLN:HG2	2.09	0.52
1:TL:263:LEU:HD11	1:TL:425:TYR:HD2	1.74	0.52
1:U:162:ARG:NH1	2:UA:97:GLU:OE2	2.42	0.52
1:UB:323:THR:HG21	2:UC:224:TYR:CZ	2.45	0.52
1:UD:61:PRO:HD3	1:UD:84:LEU:HG	1.92	0.52
2:UG:104:ALA:HB2	2:UG:413:MET:SD	2.50	0.52
2:UI:153:LEU:O	2:UI:157:LEU:HD23	2.09	0.52
2:UI:211:ASP:O	2:UI:215:ARG:HD3	2.10	0.52
2:VC:157:LEU:HB3	2:VC:166:LYS:NZ	2.24	0.52
1:VD:208:TYR:HE2	1:VD:225:LEU:HD11	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VE:91:GLN:H	2:VE:121:ARG:NH1	2.07	0.52
1:VL:171:PRO:HB3	1:VL:181:GLU:HB3	1.92	0.52
1:VL:229:VAL:HA	1:VL:300:MET:HE1	1.91	0.52
2:WC:9:ILE:HD13	2:WC:150:GLY:HA2	1.90	0.52
1:WH:303:ALA:HB2	1:WH:377:MET:HE3	1.91	0.52
1:WH:398:TYR:HB3	1:WH:403:MET:HE2	1.91	0.52
2:WI:88:ASN:HD22	4:XQ:31:PHE:HD2	1.57	0.52
3:X:13:ILE:HD13	3:X:167:PHE:HE1	1.74	0.52
3:XB:2:PHE:HB3	3:XB:7:GLN:HE21	1.75	0.52
6:0:70:LEU:HD22	6:0:94:PHE:HE1	1.75	0.52
6:0:139:PHE:CD1	14:0c:207:LYS:HD2	2.45	0.52
9:0M:70:SER:OG	9:0M:74:ARG:O	2.13	0.52
9:0N:472:ILE:HG12	9:0N:483:THR:HG22	1.92	0.52
21:0w:340:GLN:O	21:0w:343:SER:OG	2.20	0.52
21:0x:524:VAL:HG22	21:0x:528:LYS:HZ3	1.74	0.52
21:0v:64:THR:HA	21:0v:70:GLU:HG3	1.91	0.52
24:1I:478:ARG:HH22	24:1I:483:GLU:N	2.06	0.52
26:1Q:100:SER:OG	26:1Q:101:ARG:N	2.43	0.52
31:1q:35:ARG:NH2	31:1q:78:ARG:HG3	2.25	0.52
31:1q:63:SER:HG	31:1q:69:THR:HG1	1.56	0.52
33:2I:222:VAL:O	33:2I:223:THR:C	2.52	0.52
37:2S:133:TYR:C	37:2S:193:THR:HG22	2.34	0.52
37:2S:136:GLN:HE21	37:2S:188:GLN:HB3	1.75	0.52
37:2S:200:ALA:HB2	54:3Z:325:GLN:HG2	1.90	0.52
38:2V:113:ALA:O	38:2V:117:LYS:HG2	2.09	0.52
49:3P:507:SER:OG	49:3P:509:GLU:OE1	2.25	0.52
59:4O:203:ASP:OD1	59:4O:211:ARG:NH1	2.43	0.52
66:5L:44:ARG:HH22	66:5L:245:ARG:HB3	1.75	0.52
67:5P:9:ASP:HB2	67:5P:77:LYS:HB3	1.90	0.52
2:AA:288:VAL:HB	2:AA:327:ASP:HB3	1.92	0.52
1:AB:316:LEU:HD23	1:AB:352:SER:HB2	1.90	0.52
1:AJ:27:GLU:HA	1:AJ:359:LYS:HD2	1.92	0.52
1:AJ:249:ASP:O	1:AJ:252:LYS:HB3	2.10	0.52
2:AK:142:GLY:HA3	2:AK:183:GLU:HG3	1.91	0.52
2:AK:346:TRP:CG	1:AL:391:ARG:HD2	2.45	0.52
1:B:200:MET:HE1	1:B:266:PHE:HD2	1.75	0.52
1:BB:255:VAL:HG23	2:BC:407:TRP:CG	2.44	0.52
1:BB:256:ASN:ND2	2:BC:101:ASN:HD22	2.06	0.52
1:BH:220:PRO:HA	25:1O:148:ASN:HD21	1.75	0.52
2:BM:332:ILE:HD12	2:BM:351:PHE:CE2	2.44	0.52
1:CE:73:MET:HA	1:CE:73:MET:HE3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CE:148:GLY:O	1:CE:152:ILE:HG13	2.09	0.52
1:CG:344:TRP:CE2	2:CH:401:LYS:HD2	2.45	0.52
1:CG:372:THR:HB	1:CG:426:GLN:HB2	1.92	0.52
2:CL:262:TYR:OH	1:CM:391:ARG:O	2.26	0.52
1:CM:20:PHE:HA	1:CM:230:ALA:HB1	1.92	0.52
1:CM:57:GLY:HA3	27:1T:838:GLN:OE1	2.10	0.52
2:DD:15:GLN:NE2	71:DD:501:GTP:O6	2.43	0.52
1:DE:10:GLY:O	1:DE:14:ASN:ND2	2.43	0.52
1:DE:33:THR:O	1:DE:58:ARG:NH1	2.43	0.52
1:DE:309:ARG:H	1:DE:372:THR:HG1	1.55	0.52
1:DI:28:HIS:HA	1:DI:43:GLN:HG2	1.92	0.52
1:DK:313:ALA:HB3	1:DK:349:ILE:HG12	1.92	0.52
1:DM:276:ARG:NH2	24:1K:295:SER:O	2.42	0.52
1:E:350:LYS:HD3	2:EA:180:ALA:HA	1.91	0.52
2:EA:239:THR:HG23	2:EA:243:ARG:HH21	1.75	0.52
2:EE:104:ALA:HB2	2:EE:413:MET:HE3	1.92	0.52
1:EJ:152:ILE:HD12	1:EJ:164:MET:HE1	1.92	0.52
2:FG:227:VAL:O	2:FG:231:ILE:HG12	2.10	0.52
2:FI:248:LEU:HB2	2:FI:355:ILE:H	1.75	0.52
2:FI:297:GLU:OE2	2:FI:338:LYS:NZ	2.42	0.52
1:FL:3:GLU:HG3	1:FL:49:VAL:HA	1.92	0.52
1:GB:165:MET:SD	1:GB:198:GLU:HG3	2.50	0.52
2:GC:209:ILE:HG23	2:GC:230:LEU:HD12	1.91	0.52
2:GE:323:VAL:HG23	2:GE:355:ILE:HG23	1.92	0.52
1:H:85:PHE:HB2	1:H:90:PHE:CZ	2.45	0.52
1:HB:16:ILE:HD11	1:HB:229:VAL:HG11	1.91	0.52
1:HB:268:MET:H	1:HB:299:MET:HE1	1.74	0.52
1:HB:378:PHE:CD1	1:HB:415:MET:HE1	2.45	0.52
1:HD:415:MET:HA	1:HD:418:LEU:HG	1.91	0.52
2:HK:262:TYR:HB2	2:HK:265:ILE:HG22	1.91	0.52
1:HL:32:PRO:HG3	1:HL:81:TYR:CE1	2.44	0.52
1:HL:144:GLY:N	69:HL:500:GDP:O2B	2.39	0.52
2:IA:75:VAL:HG21	2:IA:94:SER:HB3	1.91	0.52
1:ID:227:HIS:CD2	7:0D:36:LEU:HD21	2.41	0.52
1:IH:32:PRO:HG3	1:IH:81:TYR:CE1	2.44	0.52
1:IH:156:ARG:HH22	1:IH:197:ASP:CG	2.18	0.52
2:II:195:LEU:HD22	2:II:428:LEU:HD22	1.91	0.52
1:IJ:186:THR:HG23	1:IJ:415:MET:HE2	1.92	0.52
2:J:102:ASN:HB3	2:J:105:ARG:HG3	1.92	0.52
2:J:265:ILE:HG21	2:J:313:MET:HE1	1.92	0.52
2:JB:244:PHE:O	2:JB:356:ASN:ND2	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JC:292:GLN:O	1:JC:298:ASN:ND2	2.36	0.52
1:JE:335:ASN:OD1	1:JE:336:LYS:N	2.43	0.52
1:JG:226:ASN:OD1	69:JG:500:GDP:N1	2.37	0.52
2:JH:271:SER:OG	2:JH:295:VAL:HG13	2.10	0.52
1:JI:237:THR:HG22	1:JI:250:LEU:HD21	1.92	0.52
2:JJ:9:ILE:HD13	2:JJ:150:GLY:HA2	1.92	0.52
2:K:199:ASP:HB3	2:K:256:GLN:NE2	2.25	0.52
2:K:435:VAL:HA	1:KA:391:ARG:HH22	1.73	0.52
1:KA:174:ARG:NH2	1:KA:205:GLU:OE1	2.39	0.52
2:KJ:46:ASP:HB2	49:3Q:259:ARG:NH2	2.25	0.52
1:KK:246:LEU:HA	2:KL:11:GLN:NE2	2.18	0.52
1:KK:350:LYS:HZ3	2:KL:179:THR:HG22	1.73	0.52
1:KM:66:MET:HE1	1:KM:151:LEU:HD22	1.92	0.52
2:KN:291:ILE:O	2:KN:295:VAL:HG23	2.10	0.52
1:LA:156:ARG:N	1:LA:164:MET:HE1	2.25	0.52
2:LB:155:GLU:O	33:2F:235:ASN:ND2	2.41	0.52
1:LE:236:VAL:HG13	1:LE:237:THR:HG23	1.90	0.52
2:LF:352:LYS:HA	1:LG:177:ASP:C	2.35	0.52
1:LG:331:LEU:HD21	35:2O:42:ALA:HB3	1.92	0.52
2:LH:155:GLU:HG3	13:0Z:117:HIS:CE1	2.45	0.52
2:LL:410:GLY:HA2	14:0d:109:ILE:HG23	1.91	0.52
1:MB:42:LEU:HD12	45:2y:198:PHE:HB3	1.91	0.52
2:MC:271:SER:HB3	2:MC:301:MET:HA	1.91	0.52
2:ME:261:PRO:HG3	2:ME:313:MET:HE3	1.92	0.52
2:MI:332:ILE:O	2:MI:336:LYS:HG3	2.09	0.52
2:MI:402:ARG:NH2	13:0Z:182:ILE:HD12	2.25	0.52
1:N:173:PRO:HG2	1:N:174:ARG:HH11	1.74	0.52
1:N:330:MET:HE3	1:N:349:ILE:HG21	1.90	0.52
1:NH:371:ASN:OD1	1:NH:372:THR:N	2.42	0.52
1:NJ:323:THR:HG21	2:NK:224:TYR:CD1	2.44	0.52
2:NK:261:PRO:HG2	2:NK:265:ILE:HD11	1.90	0.52
2:NM:11:GLN:HE21	2:NM:15:GLN:HE22	1.56	0.52
1:O:255:VAL:HA	2:OA:407:TRP:NE1	2.25	0.52
2:OA:187:CYS:O	2:OA:191:THR:HG23	2.10	0.52
2:OA:431:ASP:OD1	2:OA:432:TYR:N	2.42	0.52
1:OB:267:MET:HE1	1:OB:373:CYS:SG	2.50	0.52
1:OB:289:LEU:HG	1:OB:363:MET:HE2	1.91	0.52
1:OB:326:VAL:HG11	1:OB:353:ILE:HD11	1.92	0.52
2:OK:72:PRO:O	2:OK:76:ASP:HB2	2.09	0.52
2:OM:54:SER:HB3	2:OM:64:ARG:HE	1.74	0.52
2:OM:426:ALA:HB1	2:OM:430:LYS:HZ1	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PA:188:VAL:HG21	2:PA:395:PHE:CD1	2.45	0.52
1:PB:198:GLU:HB2	1:PB:266:PHE:HE2	1.75	0.52
2:Q:335:ILE:HG23	2:Q:341:ILE:HD11	1.91	0.52
2:QB:70:LEU:HB3	2:QB:98:ASP:HA	1.90	0.52
2:QB:88:ASN:HB2	2:QB:91:GLN:HE21	1.75	0.52
2:QD:209:ILE:HG21	2:QD:227:VAL:HG13	1.92	0.52
1:QE:36:TYR:OH	1:QE:40:SER:O	2.28	0.52
2:QF:213:THR:HG22	2:QF:219:ILE:HB	1.91	0.52
2:QF:345:ASP:N	2:QF:345:ASP:OD1	2.41	0.52
1:RA:375:GLN:HA	1:RA:378:PHE:HD2	1.75	0.52
2:RB:260:VAL:HB	1:RC:397:TRP:HZ2	1.74	0.52
2:RD:9:ILE:HD11	2:RD:153:LEU:HD23	1.91	0.52
1:SB:132:GLY:HA3	1:SB:163:ILE:HG22	1.91	0.52
1:SD:350:LYS:NZ	1:SD:352:SER:OG	2.43	0.52
1:SF:159:TYR:HB3	1:SF:162:ARG:HG2	1.92	0.52
2:TA:180:ALA:HB3	2:TA:183:GLU:HB2	1.92	0.52
1:TH:226:ASN:OD1	69:TH:500:GDP:N1	2.30	0.52
2:TK:152:LEU:O	2:TK:156:ARG:HG2	2.10	0.52
1:TL:61:PRO:HD3	1:TL:84:LEU:HG	1.91	0.52
1:V:274:THR:HG21	1:V:279:GLN:HA	1.92	0.52
1:V:286:VAL:HA	1:V:289:LEU:HB2	1.91	0.52
2:VA:406:HIS:HA	2:VA:409:VAL:HG22	1.91	0.52
1:VB:112:LEU:HD23	1:VB:147:MET:HE1	1.92	0.52
1:VB:121:ARG:NH1	1:VB:158:GLU:OE2	2.33	0.52
1:VB:404:ASP:OD1	1:VB:405:GLU:N	2.41	0.52
1:VD:159:TYR:HB3	1:VD:162:ARG:HG3	1.92	0.52
2:VE:2:ARG:HH21	1:VF:71:GLY:HA3	1.75	0.52
1:VF:189:VAL:HG11	1:VF:415:MET:SD	2.49	0.52
1:VH:330:MET:SD	1:VH:349:ILE:HG21	2.49	0.52
1:VJ:306:ARG:NH1	62:4B:353:LEU:HG	2.24	0.52
1:WD:12:CYS:O	1:WD:16:ILE:HG12	2.10	0.52
2:WG:265:ILE:HG21	2:WG:313:MET:HE1	1.92	0.52
2:WG:301:MET:HG3	2:WG:303:THR:H	1.74	0.52
2:WI:167:LEU:HD23	2:WI:200:VAL:HB	1.92	0.52
1:WJ:207:LEU:HD22	1:WJ:300:MET:HB2	1.91	0.52
2:WK:116:ASP:OD1	2:WK:117:LEU:N	2.42	0.52
3:XE:47:LEU:HB2	3:XE:162:ILE:HB	1.92	0.52
8:0I:256:ASN:O	8:0I:260:ILE:HG12	2.10	0.52
8:0J:284:LYS:HA	8:0J:287:ARG:NH1	2.25	0.52
9:0O:110:LYS:HB2	9:0O:128:GLY:HA3	1.92	0.52
15:0f:209:ARG:CZ	20:0t:151:GLU:HG2	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:0l:558:LEU:HD22	16:0l:560:SER:HB3	1.91	0.52
19:0r:294:GLY:O	19:0r:296:HIS:N	2.43	0.52
27:1S:46:LYS:HD3	27:1S:48:GLY:H	1.75	0.52
28:1g:254:LEU:HB2	28:1h:19:VAL:HG22	1.88	0.52
22:1x:257:ASP:OD1	22:1x:260:ARG:NH1	2.42	0.52
40:2Z:302:VAL:HG22	54:3a:23:MET:HG2	1.91	0.52
41:2h:358:ARG:HA	41:2h:361:GLN:HG2	1.91	0.52
53:3X:23:THR:HG23	53:3X:26:GLU:H	1.74	0.52
62:4B:414:SER:OG	62:4B:415:GLY:N	2.42	0.52
64:5C:93:LYS:HA	64:5C:96:GLU:OE1	2.09	0.52
1:A:323:THR:HG21	2:AA:224:TYR:CD1	2.45	0.52
2:AC:213:THR:HG23	2:AC:217:LEU:HD12	1.91	0.52
2:AC:228:ASN:ND2	54:3Z:251:TYR:OH	2.38	0.52
1:AD:10:GLY:O	1:AD:14:ASN:ND2	2.43	0.52
2:AE:271:SER:OG	2:AE:377:MET:HB3	2.10	0.52
1:AF:178:THR:HG22	1:AF:180:VAL:H	1.75	0.52
2:AG:328:VAL:O	2:AG:332:ILE:HG12	2.10	0.52
2:AG:434:GLU:OE1	3:XC:100:ARG:NH1	2.43	0.52
1:BB:31:ASP:OD1	1:BB:37:GLN:NE2	2.43	0.52
1:BB:317:PHE:CD2	1:BB:365:VAL:HB	2.45	0.52
1:BF:346:PRO:HG2	2:BG:394:LYS:HG2	1.90	0.52
2:BK:174:SER:HB2	2:BK:207:GLU:HG3	1.92	0.52
1:BL:61:PRO:HD3	1:BL:84:LEU:HG	1.90	0.52
1:BL:217:LEU:HB2	1:BL:220:PRO:HG3	1.91	0.52
2:C:117:LEU:O	2:C:121:ARG:HG2	2.10	0.52
2:CF:367:ASP:N	2:CF:367:ASP:OD1	2.43	0.52
2:CH:345:ASP:OD1	2:CH:346:TRP:N	2.43	0.52
2:CL:8:HIS:HE1	2:CL:21:TRP:HE1	1.57	0.52
1:CM:311:LEU:HA	1:CM:342:ILE:HD12	1.92	0.52
2:DB:185:TYR:HE2	2:DB:404:PHE:HB2	1.75	0.52
2:DD:1:MET:N	2:DD:3:GLU:OE2	2.43	0.52
1:DG:102:ALA:HB2	1:DG:403:MET:HE2	1.92	0.52
2:DJ:237:SER:HA	2:DJ:320:ARG:HH11	1.75	0.52
2:EA:313:MET:HG2	2:EA:344:VAL:HG21	1.91	0.52
1:ED:209:ASP:OD1	1:ED:213:ARG:NE	2.43	0.52
2:EK:219:ILE:HG23	2:EK:222:PRO:HD3	1.90	0.52
1:EL:234:SER:O	1:EL:241:ARG:NH2	2.43	0.52
1:F:236:VAL:HG13	1:F:237:THR:HG23	1.90	0.52
2:FA:53:PHE:HB3	2:FA:61:HIS:HB3	1.92	0.52
2:FE:211:ASP:O	2:FE:215:ARG:HG2	2.09	0.52
1:FH:324:LYS:HZ1	2:FI:222:PRO:HG2	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FJ:198:GLU:HA	1:FJ:264:HIS:HB2	1.92	0.52
2:GK:326:LYS:HE3	1:GL:220:PRO:HD2	1.91	0.52
2:HC:257:THR:HG22	1:HD:397:TRP:CD2	2.45	0.52
2:HC:259:LEU:HD21	2:HC:268:VAL:HG11	1.90	0.52
1:HD:375:GLN:HG3	1:HD:379:ARG:HH12	1.75	0.52
2:HG:93:VAL:HG11	2:HG:117:LEU:HD11	1.92	0.52
2:HM:309:HIS:NE2	64:5D:109:ARG:HD2	2.25	0.52
1:I:354:CYS:SG	1:I:355:ASP:N	2.83	0.52
1:IB:371:ASN:OD1	1:IB:372:THR:N	2.42	0.52
2:IC:67:PHE:HB2	2:IC:92:LEU:HD12	1.92	0.52
1:ID:133:PHE:HD2	1:ID:164:MET:HE1	1.74	0.52
1:IF:3:GLU:O	1:IF:131:GLN:N	2.43	0.52
1:IF:163:ILE:HG23	1:IF:251:ARG:HH21	1.74	0.52
1:IH:232:VAL:HG11	1:IH:268:MET:HB2	1.91	0.52
2:II:406:HIS:HA	2:II:409:VAL:HG22	1.92	0.52
1:IJ:107:THR:OG1	1:IJ:401:GLU:OE2	2.17	0.52
2:J:371:VAL:HG22	2:J:373:ARG:H	1.74	0.52
2:JB:319:TYR:HB3	2:JB:323:VAL:HG21	1.92	0.52
2:JB:329:ASN:ND2	1:JC:175:VAL:HG13	2.24	0.52
1:JC:311:LEU:HB2	1:JC:370:ASN:O	2.10	0.52
1:JG:330:MET:HA	1:JG:333:VAL:HG22	1.92	0.52
2:JL:147:SER:HB2	2:JL:190:SER:HB3	1.91	0.52
1:JM:139:LEU:HD12	1:JM:170:ILE:HG13	1.90	0.52
1:KG:229:VAL:HG12	1:KG:233:MET:HE3	1.91	0.52
2:KH:326:LYS:HZ1	1:KI:220:PRO:HD2	1.75	0.52
2:KJ:136:MET:HG2	2:KJ:169:TYR:CE2	2.44	0.52
2:KJ:326:LYS:HZ1	1:KK:220:PRO:C	2.18	0.52
1:KK:332:ASN:OD1	1:KK:336:LYS:NZ	2.25	0.52
2:KL:325:PRO:HA	2:KL:328:VAL:HG22	1.91	0.52
1:KM:122:LYS:HE3	1:LM:291:GLN:HB3	1.92	0.52
2:LB:90:GLU:OE1	2:MA:280:LYS:NZ	2.33	0.52
1:LC:186:THR:HG22	1:LC:411:ALA:HB1	1.91	0.52
1:LG:294:PHE:CE2	1:LG:333:VAL:HG11	2.44	0.52
2:LH:319:TYR:HB3	2:LH:323:VAL:HG11	1.92	0.52
1:LM:66:MET:HE3	1:LM:116:VAL:HG11	1.92	0.52
2:MC:307:PRO:HB3	2:MC:312:TYR:HE1	1.75	0.52
1:MF:226:ASN:HD21	69:MF:500:GDP:HN1	1.58	0.52
1:MF:229:VAL:HG12	1:MF:233:MET:HE2	1.92	0.52
2:MK:402:ARG:HG3	33:2H:117:VAL:HG21	1.90	0.52
2:NE:176:GLN:HE21	60:3s:12:LEU:HD13	1.74	0.52
2:NE:254:GLU:OE1	1:NF:99:ASN:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NE:414:GLU:HG2	2:NE:416:GLY:H	1.74	0.52
1:NH:46:ARG:NH2	2:NI:76:ASP:OD2	2.43	0.52
2:NI:195:LEU:HA	2:NI:266:HIS:CE1	2.45	0.52
2:NI:265:ILE:HG23	2:NI:432:TYR:HE1	1.75	0.52
1:NJ:323:THR:HA	1:NJ:326:VAL:HG12	1.92	0.52
2:NK:323:VAL:HG22	2:NK:373:ARG:HD2	1.92	0.52
2:NM:70:LEU:HB3	2:NM:97:GLU:O	2.10	0.52
1:O:113:ILE:HA	1:O:116:VAL:HG22	1.92	0.52
1:O:318:ARG:HE	1:O:358:PRO:HD3	1.73	0.52
1:OB:28:HIS:HA	1:OB:43:GLN:HG2	1.91	0.52
1:OB:49:VAL:HG11	1:OB:241:ARG:HG2	1.92	0.52
2:OE:195:LEU:HD21	2:OE:264:ARG:HE	1.75	0.52
1:PB:156:ARG:NH2	1:PB:197:ASP:OD1	2.43	0.52
1:PD:172:SER:O	1:PD:176:SER:N	2.42	0.52
1:PH:36:TYR:HE1	1:PH:43:GLN:NE2	2.08	0.52
1:PH:248:SER:HA	1:PH:252:LYS:HD3	1.91	0.52
2:PK:262:TYR:HD2	2:PK:265:ILE:HD13	1.75	0.52
2:PK:388:PHE:HA	2:PK:391:ILE:HG22	1.92	0.52
1:PL:66:MET:HG3	1:PL:147:MET:HE3	1.91	0.52
1:PL:323:THR:HA	1:PL:326:VAL:HG22	1.92	0.52
2:PM:111:GLY:HA2	2:PM:114:ILE:HG22	1.92	0.52
1:QC:8:GLN:OE1	1:QC:17:GLY:HA3	2.10	0.52
2:QJ:328:VAL:O	2:QJ:332:ILE:HG12	2.10	0.52
2:R:7:ILE:O	2:R:137:VAL:HA	2.09	0.52
2:R:252:LEU:HD13	2:R:255:PHE:HZ	1.74	0.52
2:R:329:ASN:OD1	1:RA:175:VAL:HG13	2.09	0.52
1:RA:253:LEU:HD11	1:RA:316:LEU:HD11	1.91	0.52
2:RB:19:ALA:O	2:RB:22:GLU:HG3	2.09	0.52
2:RB:212:LEU:O	2:RB:216:SER:OG	2.21	0.52
2:RB:254:GLU:OE1	1:RC:99:ASN:HB2	2.10	0.52
1:RC:392:LYS:HG2	1:RC:395:LEU:HD22	1.92	0.52
1:RE:2:ARG:HH22	2:RF:73:THR:HG23	1.74	0.52
2:RF:392:ASP:HB3	2:RF:425:LEU:HD23	1.91	0.52
1:RG:130:LEU:O	1:RG:162:ARG:NH2	2.43	0.52
1:RG:290:THR:HA	1:RG:293:MET:HE2	1.92	0.52
1:RI:318:ARG:HB3	1:RI:357:PRO:HA	1.92	0.52
1:RK:222:PHE:HD1	1:RK:225:LEU:HD12	1.74	0.52
2:RL:1:MET:N	2:RL:3:GLU:OE2	2.35	0.52
2:SA:121:ARG:NH2	61:3w:139:TYR:O	2.35	0.52
2:SC:281:ALA:HB3	41:2c:471:LEU:HD21	1.91	0.52
2:SE:174:SER:HB3	2:SE:207:GLU:HB2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SF:42:LEU:HD12	28:1U:217:PHE:HB3	1.91	0.52
1:SF:346:PRO:HD2	2:SG:398:MET:HG3	1.90	0.52
2:SG:213:THR:HG23	2:SG:217:LEU:HD12	1.91	0.52
2:TA:212:LEU:HD21	2:TA:275:VAL:HG21	1.91	0.52
1:TD:323:THR:HG21	2:TE:224:TYR:CZ	2.45	0.52
2:TK:345:ASP:OD1	2:TK:346:TRP:N	2.43	0.52
1:TL:189:VAL:O	1:TL:193:VAL:HG23	2.09	0.52
1:TL:274:THR:HG21	1:TL:279:GLN:HA	1.92	0.52
2:UA:242:LEU:HD12	2:UA:243:ARG:HG3	1.90	0.52
2:UC:185:TYR:HA	2:UC:395:PHE:CE2	2.45	0.52
2:UC:217:LEU:HD21	2:UC:275:VAL:HG22	1.91	0.52
1:UF:204:ASN:OD1	69:UF:500:GDP:O2'	2.27	0.52
2:UI:241:SER:OG	2:UI:250:VAL:O	2.21	0.52
1:UJ:27:GLU:OE1	1:UJ:241:ARG:NH2	2.43	0.52
2:VM:271:SER:HB3	2:VM:377:MET:HB3	1.90	0.52
1:W:213:ARG:HH12	1:W:297:LYS:HD2	1.74	0.52
1:W:379:ARG:O	1:W:383:GLU:HG3	2.09	0.52
1:WB:185:THR:O	1:WB:189:VAL:HG23	2.10	0.52
1:WB:268:MET:N	1:WB:299:MET:HE1	2.25	0.52
2:WC:115:VAL:HG22	2:WC:119:LEU:HD23	1.92	0.52
1:WD:183:TYR:CE2	1:WD:388:MET:HE3	2.45	0.52
1:WF:247:ASN:ND2	2:WG:73:THR:OG1	2.43	0.52
1:WJ:9:ALA:HB3	1:WJ:137:HIS:HB3	1.91	0.52
3:X:102:ARG:NH2	3:X:118:ILE:HD11	2.24	0.52
3:XA:115:LYS:HB3	3:XA:118:ILE:O	2.10	0.52
3:XD:97:LYS:HE2	3:XD:99:MET:HE1	1.91	0.52
3:XE:174:GLU:O	3:XE:182:LYS:NZ	2.29	0.52
8:0F:50:GLY:HA3	8:0F:55:HIS:HB2	1.87	0.52
8:0F:138:ALA:HB1	8:0G:467:VAL:HG11	1.92	0.52
8:0G:246:ARG:O	8:0G:250:GLU:HG2	2.09	0.52
8:0G:427:ARG:NH1	8:0G:428:ARG:HH21	2.07	0.52
9:0L:479:THR:HG23	9:0L:480:GLU:HG3	1.92	0.52
9:0N:547:GLY:HA2	9:0N:577:TRP:CH2	2.44	0.52
11:0U:77:ASP:OD1	11:0U:78:TYR:N	2.42	0.52
23:1B:231:LEU:HD21	45:2z:173:LYS:HG2	1.92	0.52
23:1D:72:ARG:HD2	44:2v:370:PHE:CE1	2.44	0.52
24:1K:695:LYS:HE2	24:1K:713:ASN:OD1	2.09	0.52
25:1O:87:TRP:CZ2	25:1O:89:GLY:HA2	2.44	0.52
26:1Q:295:SER:OG	26:1Q:297:ARG:NH2	2.43	0.52
27:1S:144:ILE:HG23	27:1S:153:ILE:HG23	1.91	0.52
30:1o:77:ARG:HH12	53:3W:270:LEU:HD22	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:1q:27:TYR:OH	35:2N:199:PRO:O	2.27	0.52
32:2B:139:VAL:HG21	50:3S:145:ALA:HB3	1.91	0.52
33:2G:185:THR:HG22	33:2G:187:LEU:H	1.73	0.52
37:2S:140:ILE:HD11	37:2S:152:TYR:HB3	1.91	0.52
40:2Z:22:VAL:HA	40:2Z:25:ARG:HG2	1.92	0.52
41:2c:311:GLN:HA	41:2c:314:LYS:HD2	1.92	0.52
41:2c:428:LYS:HD2	41:2c:429:HIS:CD2	2.44	0.52
41:2e:307:GLU:OE2	41:2e:311:GLN:NE2	2.43	0.52
49:3P:546:LEU:HD22	49:3P:551:LEU:HD12	1.91	0.52
64:5C:146:VAL:HG21	65:5H:142:PHE:HE2	1.74	0.52
68:5T:93:LEU:HB3	68:5T:145:CYS:SG	2.50	0.52
1:AB:404:ASP:OD1	1:AB:405:GLU:N	2.42	0.52
1:AD:86:ARG:HG3	1:BD:281:TYR:HB3	1.92	0.52
2:AE:387:VAL:O	2:AE:391:ILE:HG12	2.10	0.52
2:AG:203:MET:SD	2:AG:384:ILE:HD11	2.50	0.52
2:AG:326:LYS:HE3	1:AH:212:PHE:CE2	2.45	0.52
1:AJ:113:ILE:HG13	1:AJ:117:LEU:HD23	1.91	0.52
1:BD:293:MET:HG3	1:BD:367:PHE:HB2	1.92	0.52
1:BF:67:ASP:OD2	1:BF:72:THR:OG1	2.18	0.52
1:BL:130:LEU:O	1:BL:162:ARG:NE	2.43	0.52
1:BN:97:ALA:HB2	1:BN:143:THR:HB	1.90	0.52
2:C:72:PRO:O	2:C:76:ASP:HB2	2.10	0.52
2:C:186:ASN:OD1	2:C:408:TYR:OH	2.24	0.52
2:CB:273:ALA:HB3	2:CB:295:VAL:HG23	1.92	0.52
1:CC:252:LYS:O	1:CC:256:ASN:ND2	2.27	0.52
2:CL:99:ALA:HA	2:CL:105:ARG:HD3	1.92	0.52
2:D:318:MET:O	2:D:375:VAL:HA	2.09	0.52
1:DA:66:MET:HB3	1:DA:147:MET:HE3	1.91	0.52
2:DL:67:PHE:HB2	2:DL:92:LEU:HD23	1.92	0.52
1:E:130:LEU:HD21	1:E:133:PHE:CE2	2.44	0.52
1:E:326:VAL:HG21	1:E:353:ILE:HD11	1.92	0.52
1:ED:347:ASN:O	2:EE:181:VAL:HG12	2.10	0.52
1:EF:242:PHE:HB2	1:EF:354:CYS:SG	2.50	0.52
1:EF:314:SER:HB3	1:EF:368:ILE:HB	1.90	0.52
1:EH:66:MET:SD	1:EH:116:VAL:HG11	2.49	0.52
1:EH:267:MET:O	1:EH:368:ILE:HA	2.10	0.52
1:F:101:TRP:CE2	1:F:187:LEU:HB3	2.45	0.52
1:F:313:ALA:HB3	1:F:349:ILE:HG12	1.92	0.52
2:FA:237:SER:HA	2:FA:320:ARG:HD2	1.91	0.52
1:FF:172:SER:OG	1:FF:205:GLU:OE1	2.25	0.52
2:FG:69:ASP:OD2	2:FG:71:GLU:HG3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FG:89:PRO:HG2	2:GG:280:LYS:HG2	1.91	0.52
1:FH:240:LEU:HD11	1:FH:249:ASP:HA	1.91	0.52
2:FI:166:LYS:HB2	2:FI:199:ASP:H	1.75	0.52
2:FK:28:HIS:NE2	2:FK:48:ALA:O	2.41	0.52
2:GC:21:TRP:NE1	2:GC:65:CYS:SG	2.83	0.52
2:GC:301:MET:HG3	2:GC:303:THR:H	1.75	0.52
1:GH:239:CYS:HB3	1:GH:248:SER:H	1.75	0.52
1:GL:207:LEU:HD21	1:GL:300:MET:HE3	1.90	0.52
1:H:232:VAL:O	1:H:236:VAL:HG13	2.10	0.52
1:HB:249:ASP:H	1:HB:252:LYS:HB2	1.74	0.52
1:HH:395:LEU:O	1:HH:399:THR:HG23	2.09	0.52
1:I:16:ILE:HD11	1:I:229:VAL:HB	1.91	0.52
1:I:226:ASN:OD1	69:I:500:GDP:N1	2.43	0.52
2:IC:254:GLU:OE1	1:ID:99:ASN:N	2.43	0.52
2:IK:419:SER:O	2:IK:423:GLU:HG3	2.10	0.52
1:IL:317:PHE:HB3	1:IL:321:MET:SD	2.50	0.52
2:IM:207:GLU:HB2	2:IM:304:LYS:HE2	1.92	0.52
2:J:156:ARG:HH11	2:J:156:ARG:HG3	1.75	0.52
1:JE:212:PHE:CD1	19:0r:26:VAL:HG23	2.45	0.52
2:JH:204:LEU:HD22	2:JH:231:ILE:HD12	1.92	0.52
1:JI:22:GLU:HA	1:JI:81:TYR:CD2	2.45	0.52
1:JM:73:MET:HE3	1:JM:92:PHE:HB3	1.90	0.52
1:KC:236:VAL:HG13	1:KC:237:THR:HG23	1.91	0.52
2:KD:207:GLU:HB2	2:KD:304:LYS:NZ	2.24	0.52
2:KD:259:LEU:HD21	2:KD:268:VAL:HG11	1.92	0.52
2:KH:150:GLY:O	2:KH:154:LEU:HD23	2.09	0.52
1:LC:83:GLN:NE2	1:MB:280:GLN:OE1	2.43	0.52
2:LD:298:PRO:HG3	2:LD:308:ARG:CZ	2.40	0.52
2:LF:67:PHE:HB2	2:LF:92:LEU:HD12	1.91	0.52
1:LG:43:GLN:OE1	45:2y:409:TYR:OH	2.12	0.52
2:LJ:70:LEU:HD12	2:LJ:99:ALA:HB2	1.91	0.52
2:LN:3:GLU:OE2	2:LN:131:GLY:N	2.43	0.52
1:MD:346:PRO:CG	2:ME:394:LYS:HG2	2.39	0.52
2:ME:329:ASN:HD21	1:MF:175:VAL:HG22	1.74	0.52
1:MF:309:ARG:H	1:MF:372:THR:HG1	1.58	0.52
2:MK:108:TYR:HE2	2:MK:413:MET:HE2	1.75	0.52
2:MK:204:LEU:HD12	2:MK:231:ILE:HG12	1.91	0.52
2:MM:136:MET:HE1	2:MM:235:VAL:HG13	1.91	0.52
2:MM:213:THR:HA	2:MM:217:LEU:HB2	1.92	0.52
2:NA:295:VAL:HG11	2:NA:377:MET:HE3	1.92	0.52
1:NB:172:SER:HB3	1:NB:175:VAL:HG22	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NC:174:SER:HB2	2:NC:207:GLU:HG2	1.92	0.52
1:ND:190:HIS:HB2	1:ND:414:ASN:HD22	1.75	0.52
2:NE:392:ASP:CB	2:NE:422:ARG:HH22	2.23	0.52
1:NL:371:ASN:OD1	1:NL:372:THR:N	2.43	0.52
1:OB:210:ILE:CD1	1:OB:300:MET:HG2	2.40	0.52
1:OB:255:VAL:HG23	2:OC:407:TRP:CG	2.45	0.52
1:OF:139:LEU:HG	1:OF:168:SER:HB2	1.92	0.52
2:OG:295:VAL:HG12	2:OG:377:MET:HE3	1.91	0.52
1:OH:27:GLU:OE1	1:OH:241:ARG:NH1	2.41	0.52
2:PG:174:SER:OG	2:PG:175:PRO:HD2	2.10	0.52
1:PH:36:TYR:HE1	1:PH:43:GLN:HE21	1.56	0.52
2:PI:288:VAL:HG22	2:PI:323:VAL:HG12	1.90	0.52
1:PJ:200:MET:HE2	1:PJ:368:ILE:HD12	1.91	0.52
1:PL:2:ARG:HH21	2:PM:96:LYS:HD2	1.75	0.52
2:PM:273:ALA:HB3	2:PM:295:VAL:HG23	1.92	0.52
2:Q:40:LYS:HG3	28:1a:240:PHE:HE1	1.75	0.52
1:QK:220:PRO:HB2	1:QK:224:ASP:HB2	1.92	0.52
2:RB:241:SER:HA	2:RB:356:ASN:HD21	1.74	0.52
1:RG:113:ILE:HG13	1:RG:117:LEU:HD23	1.92	0.52
2:RL:269:LEU:HD21	2:RL:384:ILE:HG22	1.91	0.52
2:RL:351:PHE:O	2:RL:352:LYS:HD3	2.10	0.52
2:SC:348:PRO:HG2	1:SD:384:GLN:HE22	1.73	0.52
1:SF:237:THR:HG22	1:SF:250:LEU:HD21	1.91	0.52
1:SJ:9:ALA:HB3	1:SJ:137:HIS:HB3	1.92	0.52
1:SJ:66:MET:HE3	1:SJ:116:VAL:HG21	1.92	0.52
1:SJ:336:LYS:NZ	59:3p:242:VAL:HG13	2.25	0.52
1:T:245:GLN:HB3	2:TA:224:TYR:HD2	1.75	0.52
1:T:320:ARG:HH12	53:3W:159:TRP:CD1	2.28	0.52
2:TA:324:VAL:HG23	2:TA:327:ASP:H	1.75	0.52
1:TB:105:HIS:HD2	1:TB:106:TYR:CE1	2.28	0.52
2:TG:177:VAL:HB	2:TG:207:GLU:HG3	1.91	0.52
2:TG:262:TYR:HB2	2:TG:265:ILE:HG12	1.92	0.52
1:TJ:104:GLY:O	1:TJ:147:MET:HB3	2.09	0.52
1:TJ:246:LEU:HD21	2:TK:179:THR:HG21	1.90	0.52
1:UF:60:VAL:HG11	1:UF:86:ARG:HG3	1.92	0.52
2:UG:173:PRO:HG3	2:UG:183:GLU:HG2	1.92	0.52
2:UG:233:GLN:NE2	2:UG:360:PRO:HB3	2.25	0.52
1:UJ:122:LYS:HE2	1:UJ:122:LYS:HA	1.92	0.52
1:UJ:332:ASN:O	1:UJ:336:LYS:HG2	2.09	0.52
2:UK:122:ILE:HD13	2:UK:157:LEU:HD21	1.92	0.52
1:UL:11:GLN:O	1:UL:15:GLN:HG2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VC:301:MET:HG2	2:VC:303:THR:H	1.75	0.52
1:VD:113:ILE:HD13	1:VD:150:LEU:HD22	1.92	0.52
1:VH:329:GLN:HE22	62:4B:302:PRO:HA	1.74	0.52
1:WH:129:CYS:SG	2:WI:96:LYS:HE3	2.50	0.52
1:WH:172:SER:HB2	1:WH:203:ASP:OD1	2.10	0.52
1:WJ:10:GLY:O	1:WJ:14:ASN:ND2	2.43	0.52
1:WJ:153:SER:O	1:WJ:157:GLU:HG3	2.10	0.52
1:WL:62:ARG:NE	1:WL:127:CYS:SG	2.83	0.52
3:XF:115:LYS:O	3:XF:117:PHE:N	2.43	0.52
9:0N:193:ILE:HG12	9:0N:232:ASN:HB3	1.92	0.52
9:0O:122:TYR:CZ	9:0O:136:LEU:HD21	2.45	0.52
16:0l:16:ARG:NH1	16:0l:105:LEU:HD13	2.20	0.52
17:0n:209:ALA:HB1	17:0n:213:LYS:NZ	2.25	0.52
23:1A:146:PRO:O	23:1A:155:ARG:NH2	2.34	0.52
24:1H:208:VAL:HB	24:1H:212:MET:HE1	1.92	0.52
24:1I:649:ARG:NH2	24:1I:650:HIS:HE1	2.08	0.52
25:1O:197:ASP:OD1	25:1O:198:LYS:N	2.43	0.52
26:1Q:79:TRP:CZ2	26:1Q:85:LYS:HD3	2.45	0.52
28:1b:233:ARG:HH12	28:1b:266:TYR:HD1	1.58	0.52
28:1c:19:VAL:HA	28:1c:22:ILE:HG22	1.92	0.52
30:1o:83:ARG:NH2	30:1o:175:SER:OG	2.42	0.52
33:2G:235:ASN:OD1	33:2G:236:GLU:N	2.43	0.52
44:2v:385:LEU:O	44:2v:389:ILE:HG12	2.10	0.52
48:3H:97:VAL:O	48:3H:101:ASP:N	2.36	0.52
28:4W:18:CYS:SG	28:4W:30:CYS:SG	3.07	0.52
64:5B:223:ASP:OD2	65:5G:219:TYR:OH	2.23	0.52
65:5H:107:SER:HA	65:5H:110:MET:HE2	1.92	0.52
66:5L:236:LEU:HD23	66:5L:248:LEU:HD11	1.92	0.52
1:A:44:LEU:HD12	16:0k:795:ARG:HH21	1.75	0.51
2:AA:55:GLU:OE2	2:AA:61:HIS:NE2	2.43	0.51
2:AC:238:LEU:HD11	2:AC:378:ILE:HD11	1.93	0.51
2:AG:212:LEU:HD21	2:AG:275:VAL:HG21	1.92	0.51
2:AI:60:LYS:HZ2	2:BI:282:TYR:HE2	1.56	0.51
2:AK:298:PRO:HB3	2:AK:307:PRO:HD2	1.92	0.51
1:AL:272:PRO:HG3	1:AL:284:LEU:HD11	1.91	0.51
2:BA:67:PHE:HB2	2:BA:92:LEU:HD12	1.92	0.51
1:BB:14:ASN:O	1:BB:18:SER:OG	2.20	0.51
2:BC:1:MET:N	2:BC:3:GLU:OE2	2.43	0.51
1:BD:218:THR:HG22	1:BD:219:THR:HG23	1.92	0.51
2:BI:257:THR:HG1	1:BJ:397:TRP:CG	2.27	0.51
2:BI:328:VAL:O	2:BI:332:ILE:HG12	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BL:52:ASP:OD1	1:BL:86:ARG:NH2	2.43	0.51
2:BM:316:CYS:HB2	2:BM:378:ILE:HG23	1.91	0.51
1:BN:7:CYS:SG	1:BN:66:MET:HE2	2.50	0.51
1:BN:31:ASP:OD2	1:BN:37:GLN:NE2	2.43	0.51
2:CD:367:ASP:OD1	2:CD:367:ASP:N	2.43	0.51
1:CG:100:ASN:HB3	1:CG:103:LYS:HG2	1.92	0.51
2:CH:211:ASP:O	2:CH:215:ARG:HD3	2.10	0.51
1:DC:311:LEU:N	1:DC:370:ASN:O	2.43	0.51
2:DF:1:MET:N	2:DF:3:GLU:OE2	2.41	0.51
2:DH:186:ASN:OD1	2:DH:408:TYR:OH	2.25	0.51
2:DL:103:TYR:HB3	2:DL:408:TYR:HE1	1.75	0.51
1:DM:267:MET:HE1	1:DM:305:PRO:HG3	1.93	0.51
1:F:213:ARG:NE	1:F:297:LYS:HE2	2.24	0.51
2:FC:296:PHE:CZ	2:FC:377:MET:HE1	2.45	0.51
2:FG:75:VAL:HG21	2:FG:94:SER:HB2	1.92	0.51
2:FG:81:GLY:O	2:FG:84:ARG:NH1	2.43	0.51
1:FH:4:ILE:HD11	1:FH:240:LEU:HD22	1.92	0.51
1:FH:185:THR:HB	1:FH:381:VAL:HG21	1.91	0.51
2:FI:331:ALA:O	2:FI:335:ILE:HG12	2.10	0.51
1:GD:236:VAL:HA	1:GD:316:LEU:HD13	1.92	0.51
1:GD:385:PHE:CZ	1:GD:408:PHE:CE2	2.98	0.51
2:GE:28:HIS:NE2	2:GE:48:ALA:O	2.43	0.51
1:GJ:3:GLU:HA	1:GJ:49:VAL:HA	1.92	0.51
1:GJ:147:MET:O	1:GJ:151:LEU:HG	2.09	0.51
1:HF:286:VAL:HG11	1:HF:325:GLU:HB3	1.92	0.51
2:HG:70:LEU:HD12	2:HG:145:THR:HG22	1.92	0.51
1:HH:139:LEU:HD12	1:HH:170:ILE:HG13	1.92	0.51
1:I:149:THR:HA	1:I:152:ILE:HG22	1.91	0.51
2:IC:352:LYS:HD3	1:ID:177:ASP:O	2.11	0.51
1:ID:284:LEU:HB2	7:0D:39:TYR:CE2	2.45	0.51
1:IF:148:GLY:O	1:IF:152:ILE:HG12	2.09	0.51
2:IG:195:LEU:HD21	2:IG:428:LEU:HD22	1.92	0.51
1:IH:233:MET:O	1:IH:236:VAL:HG12	2.11	0.51
2:II:50:ASN:OD1	2:II:64:ARG:NH2	2.43	0.51
1:IJ:287:ALA:HA	1:IJ:329:GLN:NE2	2.25	0.51
2:IK:81:GLY:O	2:IK:84:ARG:HG3	2.10	0.51
2:JB:224:TYR:HA	2:JB:227:VAL:HG22	1.93	0.51
2:JH:122:ILE:HD13	2:JH:157:LEU:HD21	1.90	0.51
2:JJ:3:GLU:HG3	2:JJ:51:THR:HA	1.91	0.51
2:KB:21:TRP:CZ2	2:KB:65:CYS:HB3	2.45	0.51
2:KD:212:LEU:HD21	2:KD:275:VAL:HG11	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KF:293:ASN:O	2:KF:297:GLU:HG2	2.10	0.51
2:KH:56:THR:HA	2:LH:285:GLN:HB3	1.92	0.51
1:KI:257:LEU:HD23	1:KI:312:THR:HG23	1.91	0.51
1:KI:346:PRO:HG3	2:KJ:394:LYS:HG2	1.91	0.51
2:KN:137:VAL:HG21	2:KN:154:LEU:HD21	1.91	0.51
2:KN:188:VAL:O	2:KN:191:THR:HG22	2.10	0.51
2:L:209:ILE:HG12	2:L:302:LEU:HD22	1.92	0.51
1:LA:252:LYS:HB2	2:LB:100:ALA:HA	1.92	0.51
1:LE:296:ALA:HB1	1:LE:304:ASP:OD1	2.10	0.51
1:LG:193:VAL:O	13:0Z:101:ARG:NH2	2.43	0.51
1:LK:274:THR:HG22	1:LK:282:ARG:HD3	1.91	0.51
1:LO:289:LEU:HD12	1:LO:365:VAL:HG12	1.92	0.51
2:MC:390:ARG:NH2	13:0Y:38:PRO:O	2.40	0.51
2:ME:1:MET:HE1	1:MF:70:PRO:HG2	1.90	0.51
2:ME:91:GLN:HG2	2:ME:125:LEU:HD11	1.92	0.51
2:MG:353:CYS:HB2	1:MH:177:ASP:HB2	1.90	0.51
1:MJ:28:HIS:HA	1:MJ:43:GLN:HG2	1.92	0.51
1:MJ:198:GLU:HA	1:MJ:264:HIS:HB2	1.92	0.51
2:MK:417:GLU:HA	2:MK:420:GLU:HB2	1.92	0.51
1:ML:207:LEU:HD21	1:ML:300:MET:HE3	1.91	0.51
1:ML:355:ASP:OD2	45:2z:150:THR:HA	2.09	0.51
2:MM:166:LYS:H	2:MM:199:ASP:HB3	1.75	0.51
1:N:172:SER:HB2	1:N:380:ARG:HH22	1.75	0.51
1:N:323:THR:HG21	2:NA:224:TYR:CD1	2.45	0.51
1:NB:346:PRO:HG3	2:NC:394:LYS:HG2	1.93	0.51
2:NC:274:PRO:HG2	2:NC:371:VAL:HG21	1.92	0.51
2:NE:292:THR:HG21	2:NE:331:ALA:HB1	1.92	0.51
1:O:337:ASN:HB3	1:O:340:TYR:HB2	1.91	0.51
1:OB:47:ILE:HG21	1:OB:59:TYR:HE2	1.75	0.51
2:OG:237:SER:HA	2:OG:320:ARG:HD2	1.92	0.51
1:OH:234:SER:O	1:OH:241:ARG:NH2	2.38	0.51
1:OJ:321:MET:HB3	1:OJ:363:MET:HE2	1.91	0.51
1:OL:22:GLU:HG3	1:OL:81:TYR:CE1	2.45	0.51
2:OM:167:LEU:HD13	2:OM:200:VAL:HB	1.92	0.51
2:OM:175:PRO:HG3	2:OM:390:ARG:HH21	1.75	0.51
2:OM:205:ASP:OD1	2:OM:303:THR:HA	2.10	0.51
1:P:313:ALA:HB1	1:P:367:PHE:CE1	2.46	0.51
1:PB:252:LYS:HD2	2:PC:100:ALA:HA	1.93	0.51
1:PB:375:GLN:HB2	1:PB:419:VAL:HG13	1.91	0.51
2:PC:9:ILE:HD12	2:PC:68:LEU:HD23	1.93	0.51
2:PG:223:SER:OG	2:PG:224:TYR:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PH:211:CYS:HB3	1:PH:220:PRO:HG3	1.93	0.51
1:PJ:68:LEU:HB3	1:PJ:96:GLY:HA2	1.91	0.51
2:PK:152:LEU:O	2:PK:156:ARG:HG2	2.11	0.51
1:PL:178:THR:HG22	1:PL:180:VAL:H	1.75	0.51
2:PM:81:GLY:O	2:PM:84:ARG:HG3	2.09	0.51
2:PM:311:LYS:HZ2	2:PM:344:VAL:HA	1.75	0.51
2:Q:117:LEU:O	2:Q:121:ARG:HG2	2.10	0.51
1:QC:242:PHE:HB3	1:QC:356:ILE:HD13	1.91	0.51
2:QD:215:ARG:NH2	2:QD:299:ALA:O	2.42	0.51
2:QH:258:ASN:HD21	1:QI:99:ASN:HD22	1.57	0.51
2:QH:288:VAL:HB	2:QH:327:ASP:HB3	1.92	0.51
2:QJ:275:VAL:O	2:QJ:275:VAL:HG13	2.10	0.51
2:QJ:295:VAL:HG11	2:QJ:377:MET:HB2	1.92	0.51
2:QJ:350:GLY:H	1:QK:179:VAL:HG23	1.74	0.51
1:QK:22:GLU:HG3	1:QK:81:TYR:CZ	2.44	0.51
2:QL:67:PHE:HB2	2:QL:92:LEU:HD13	1.90	0.51
2:RB:104:ALA:HB2	2:RB:413:MET:HE3	1.92	0.51
1:RG:326:VAL:O	1:RG:330:MET:HG3	2.11	0.51
2:RH:256:GLN:O	2:RH:260:VAL:HG12	2.10	0.51
2:SA:203:MET:SD	2:SA:267:PHE:HB3	2.50	0.51
1:SB:392:LYS:HD2	1:SB:395:LEU:HD22	1.90	0.51
1:SD:242:PHE:HB2	1:SD:354:CYS:SG	2.50	0.51
2:SG:11:GLN:O	2:SG:15:GLN:HG3	2.10	0.51
1:SH:199:SER:O	1:SH:265:PHE:HA	2.10	0.51
1:T:87:PRO:HA	1:T:90:PHE:HD2	1.74	0.51
1:TD:330:MET:O	1:TD:334:GLN:HG2	2.10	0.51
2:TK:260:VAL:HG13	1:TL:397:TRP:HE1	1.75	0.51
1:U:237:THR:HG22	1:U:250:LEU:HD21	1.92	0.51
1:U:355:ASP:OD2	53:3W:106:THR:N	2.43	0.51
2:UA:216:SER:OG	2:UA:275:VAL:O	2.21	0.51
1:UB:10:GLY:O	1:UB:14:ASN:ND2	2.43	0.51
1:UD:310:TYR:HB2	1:UD:341:PHE:HD1	1.75	0.51
1:V:350:LYS:NZ	2:VA:181:VAL:HG22	2.24	0.51
1:VD:156:ARG:NH2	1:VD:162:ARG:O	2.43	0.51
1:VD:173:PRO:HD3	1:VD:380:ARG:NH1	2.25	0.51
1:VF:73:MET:HG3	1:VF:92:PHE:HB3	1.93	0.51
1:VF:332:ASN:O	1:VF:336:LYS:HG2	2.10	0.51
2:VI:104:ALA:HB1	2:VI:411:GLU:OE2	2.09	0.51
2:VK:285:GLN:HE22	2:VK:287:SER:HB3	1.74	0.51
1:VL:293:MET:HE1	1:VL:315:ALA:HB2	1.93	0.51
2:WA:169:TYR:CE1	2:WA:235:VAL:HG22	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:WB:66:MET:HE2	1:WB:147:MET:HG2	1.92	0.51
2:WC:318:MET:O	2:WC:375:VAL:HA	2.10	0.51
2:WE:55:GLU:OE2	2:WE:61:HIS:NE2	2.43	0.51
2:WE:101:ASN:HD22	2:WE:143:GLY:HA2	1.76	0.51
2:WM:150:GLY:O	2:WM:154:LEU:HD23	2.10	0.51
2:WM:151:ALA:O	2:WM:155:GLU:HG3	2.10	0.51
3:XA:125:LEU:HD13	3:XA:130:ASN:HD21	1.76	0.51
3:XD:20:LYS:HZ3	3:XD:22:LEU:C	2.17	0.51
3:XE:104:ARG:HH12	3:XE:157:HIS:CD2	2.28	0.51
5:XN:127:VAL:HG22	5:XN:218:SER:HB2	1.92	0.51
4:XR:8:PRO:HA	9:0O:236:MET:HE3	1.91	0.51
8:0F:38:ALA:HB3	13:0Y:272:VAL:HG22	1.92	0.51
8:0G:250:GLU:OE1	34:2L:246:LEU:HG	2.10	0.51
9:0N:35:LEU:HD11	9:0N:298:TYR:CE2	2.45	0.51
16:0l:564:PRO:HD2	16:0l:567:ARG:NE	2.25	0.51
17:0n:147:GLN:O	17:0n:151:ILE:HG12	2.10	0.51
24:1I:733:MET:HE2	24:1I:733:MET:HA	1.92	0.51
24:1J:594:GLU:HG3	24:1J:605:ARG:HH12	1.74	0.51
25:1O:57:PRO:O	40:2Z:285:ARG:NH2	2.39	0.51
28:1h:176:GLN:NE2	28:1h:177:ASN:OD1	2.43	0.51
33:2G:77:PRO:HA	33:2G:103:MET:HE1	1.93	0.51
41:2l:357:THR:O	41:2l:361:GLN:HG2	2.10	0.51
44:2v:198:ILE:HA	44:2v:209:GLY:HA3	1.92	0.51
44:2v:213:MET:HG2	44:2v:236:LEU:HD11	1.92	0.51
44:2w:329:ILE:HG22	45:2z:90:PRO:HG3	1.92	0.51
48:3F:44:ASP:OD1	48:3F:45:GLU:N	2.42	0.51
48:3F:105:GLU:HA	48:3F:108:LEU:HG	1.91	0.51
48:3G:97:VAL:HB	48:3G:100:ARG:HG2	1.92	0.51
49:3Q:152:ARG:NH1	49:3Q:192:ASN:HB2	2.25	0.51
52:3U:347:THR:HG23	52:3U:350:SER:H	1.76	0.51
62:4B:249:GLU:HB3	62:4B:259:GLY:HA2	1.92	0.51
64:5C:77:CYS:HA	64:5C:80:MET:HG2	1.92	0.51
66:5K:161:PRO:HD3	66:5K:232:THR:O	2.10	0.51
67:5O:80:MET:HB3	67:5O:85:ALA:HB2	1.92	0.51
67:5P:46:ARG:NH2	67:5P:48:LYS:O	2.27	0.51
1:AB:322:SER:OG	2:AC:222:PRO:O	2.29	0.51
1:AF:211:CYS:HB3	1:AF:220:PRO:HG3	1.91	0.51
1:AF:423:GLN:HG2	4:XO:110:ALA:HB1	1.91	0.51
1:AH:293:MET:HG3	1:AH:367:PHE:HB2	1.92	0.51
2:AI:322:ASP:HB3	54:3a:121:THR:HA	1.92	0.51
2:AM:19:ALA:HA	2:AM:22:GLU:HG2	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BC:169:TYR:HA	2:BC:202:THR:HB	1.92	0.51
2:BC:172:TYR:CE2	2:BC:203:MET:HE1	2.45	0.51
1:BD:42:LEU:HA	1:BD:45:GLU:HB2	1.92	0.51
2:BE:269:LEU:N	2:BE:379:ALA:O	2.39	0.51
2:BG:376:CYS:SG	2:BG:377:MET:N	2.84	0.51
1:BH:226:ASN:OD1	69:BH:500:GDP:N1	2.36	0.51
1:BJ:20:PHE:HB2	1:BJ:233:MET:SD	2.50	0.51
1:BL:415:MET:O	1:BL:419:VAL:HG23	2.10	0.51
2:C:191:THR:HG21	2:C:425:LEU:HD13	1.93	0.51
1:CA:314:SER:HB3	1:CA:368:ILE:HB	1.90	0.51
1:CE:63:ALA:O	1:CE:89:ASN:ND2	2.33	0.51
2:CF:326:LYS:HD3	1:CG:220:PRO:HG2	1.92	0.51
2:CJ:206:ASN:HD21	2:CJ:224:TYR:HE1	1.57	0.51
2:CL:295:VAL:HG21	2:CL:375:VAL:HG13	1.91	0.51
2:D:1:MET:HA	2:D:1:MET:HE2	1.92	0.51
2:D:101:ASN:ND2	71:D:501:GTP:O2G	2.43	0.51
1:DC:139:LEU:HD12	1:DC:170:ILE:HG22	1.90	0.51
1:DE:156:ARG:HH12	1:DE:197:ASP:CG	2.18	0.51
2:DF:260:VAL:HB	1:DG:397:TRP:HZ2	1.76	0.51
2:DJ:170:THR:HG21	2:DJ:194:LEU:HD21	1.93	0.51
1:DK:66:MET:HE2	1:DK:116:VAL:HG21	1.93	0.51
1:DM:249:ASP:OD1	1:DM:252:LYS:HB2	2.10	0.51
1:DM:293:MET:HE2	1:DM:365:VAL:HG21	1.91	0.51
1:EB:234:SER:O	1:EB:241:ARG:NH2	2.43	0.51
2:EG:324:VAL:HG13	2:EG:327:ASP:H	1.75	0.51
1:EH:228:LEU:O	1:EH:232:VAL:HG23	2.10	0.51
2:EI:252:LEU:HA	2:EI:255:PHE:CE2	2.44	0.51
2:EK:56:THR:HG23	2:EK:58:ALA:H	1.75	0.51
1:EL:63:ALA:O	1:EL:89:ASN:ND2	2.43	0.51
2:FA:121:ARG:NH2	59:4O:101:GLY:O	2.43	0.51
2:FG:79:ARG:NH2	2:FG:92:LEU:O	2.43	0.51
1:FJ:246:LEU:HA	2:FK:11:GLN:HE22	1.75	0.51
1:FJ:392:LYS:NZ	1:FJ:405:GLU:OE2	2.35	0.51
1:FL:381:VAL:HG12	1:FL:415:MET:HE1	1.91	0.51
1:G:58:ARG:HH22	1:H:281:TYR:HA	1.74	0.51
2:GA:178:SER:OG	2:GA:183:GLU:OE1	2.18	0.51
2:GA:339:ARG:HH22	59:4O:120:PRO:CD	2.18	0.51
2:GC:31:GLN:NE2	2:GC:35:SER:O	2.43	0.51
2:GE:322:ASP:HB3	10:0R:146:LYS:HE3	1.92	0.51
1:GF:323:THR:HG21	2:GG:224:TYR:CD2	2.45	0.51
1:GF:388:MET:HB3	1:GF:393:ALA:HB3	1.90	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GG:155:GLU:HA	2:GG:197:HIS:CD2	2.45	0.51
1:GJ:252:LYS:NZ	2:GK:101:ASN:OD1	2.44	0.51
1:HB:272:PRO:HD3	1:HB:364:SER:HA	1.91	0.51
2:HC:118:ALA:O	2:HC:122:ILE:HG12	2.09	0.51
1:HD:267:MET:O	1:HD:368:ILE:HD12	2.09	0.51
2:HI:250:VAL:HG23	2:HI:254:GLU:HG3	1.92	0.51
1:HL:163:ILE:HD11	1:HL:251:ARG:NE	2.26	0.51
2:IA:33:ASP:H	38:2U:156:TYR:HE1	1.57	0.51
1:ID:42:LEU:HA	1:ID:45:GLU:HB2	1.92	0.51
1:IJ:51:PHE:HB3	1:IJ:59:TYR:HB3	1.92	0.51
1:IL:172:SER:HB3	1:IL:205:GLU:HG3	1.93	0.51
2:IM:189:LEU:HD21	2:IM:418:PHE:HE1	1.75	0.51
1:JE:345:ILE:O	1:JE:348:ASN:ND2	2.43	0.51
2:JJ:195:LEU:HD21	2:JJ:264:ARG:NE	2.25	0.51
2:K:88:ASN:HD21	2:L:280:LYS:NZ	2.07	0.51
1:KA:284:LEU:HD21	1:KA:363:MET:HB3	1.92	0.51
2:KD:27:GLU:OE1	2:KD:243:ARG:NH1	2.42	0.51
2:KD:239:THR:HG22	2:KD:243:ARG:HG3	1.93	0.51
2:KF:89:PRO:HB2	2:LF:280:LYS:HZ1	1.73	0.51
1:KI:68:LEU:HD12	1:KI:97:ALA:HB2	1.92	0.51
2:KL:185:TYR:CZ	2:KL:398:MET:HB3	2.45	0.51
1:KM:139:LEU:HG	1:KM:168:SER:HB2	1.92	0.51
2:L:225:THR:HG22	2:L:229:ARG:HH21	1.75	0.51
2:LD:240:ALA:C	2:LD:356:ASN:HD21	2.17	0.51
1:LG:19:LYS:O	1:LG:22:GLU:HB2	2.10	0.51
1:LI:143:THR:O	1:LI:147:MET:HB2	2.09	0.51
2:LN:70:LEU:HD12	2:LN:99:ALA:HB2	1.91	0.51
1:LO:172:SER:OG	1:LO:205:GLU:OE2	2.22	0.51
2:MA:64:ARG:NH1	2:MA:129:CYS:SG	2.83	0.51
2:MA:213:THR:HG22	2:MA:219:ILE:HB	1.92	0.51
1:MB:143:THR:O	1:MB:147:MET:HB3	2.10	0.51
2:MC:21:TRP:CZ2	2:MC:65:CYS:HB3	2.45	0.51
2:MG:163:LYS:HB2	32:2C:61:ARG:HG3	1.92	0.51
2:MG:215:ARG:NH1	13:0Z:42:ALA:O	2.43	0.51
2:MM:1:MET:C	2:MM:2:ARG:HD3	2.35	0.51
1:MN:377:MET:O	1:MN:381:VAL:HG12	2.10	0.51
2:NA:7:ILE:HB	2:NA:137:VAL:HG22	1.91	0.51
2:NA:277:SER:OG	2:NA:278:ALA:N	2.43	0.51
1:NB:9:ALA:HB3	1:NB:137:HIS:HB3	1.92	0.51
1:NB:198:GLU:HB2	1:NB:266:PHE:CE2	2.45	0.51
1:ND:350:LYS:NZ	2:NE:179:THR:HG22	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NF:134:GLN:HA	1:NF:165:MET:O	2.11	0.51
1:NF:293:MET:HE1	1:NF:365:VAL:HG22	1.91	0.51
1:NL:180:VAL:O	1:NL:180:VAL:HG12	2.11	0.51
2:OA:326:LYS:HZ2	1:OB:220:PRO:HD2	1.75	0.51
2:OC:177:VAL:N	2:OC:207:GLU:OE2	2.32	0.51
2:OI:49:PHE:HD2	2:OI:53:PHE:HB2	1.75	0.51
2:OK:21:TRP:HZ2	2:OK:65:CYS:HB3	1.75	0.51
2:OK:241:SER:HB2	2:OK:250:VAL:H	1.76	0.51
1:PB:246:LEU:HD22	1:PB:352:SER:HA	1.90	0.51
2:PE:328:VAL:O	2:PE:332:ILE:HG12	2.10	0.51
2:PI:72:PRO:O	2:PI:76:ASP:HB2	2.10	0.51
2:PK:318:MET:O	2:PK:375:VAL:HA	2.10	0.51
1:PL:61:PRO:HG2	1:PL:85:PHE:CD1	2.42	0.51
1:PL:327:ASP:HB3	2:PM:177:VAL:HG13	1.92	0.51
2:PM:36:MET:HE3	2:PM:61:HIS:HE2	1.76	0.51
1:QG:189:VAL:O	1:QG:193:VAL:HG23	2.09	0.51
2:QH:322:ASP:HB3	28:1b:169:PHE:CD2	2.45	0.51
2:R:250:VAL:HA	2:R:254:GLU:OE1	2.10	0.51
1:RC:344:TRP:HZ3	2:RD:403:ALA:HB2	1.76	0.51
1:RK:322:SER:OG	2:RL:222:PRO:O	2.23	0.51
1:S:331:LEU:HD22	2:SA:177:VAL:HG22	1.91	0.51
2:SC:142:GLY:HA2	2:SC:183:GLU:HG3	1.91	0.51
1:SF:63:ALA:O	1:SF:89:ASN:ND2	2.40	0.51
1:SF:66:MET:SD	1:SF:116:VAL:HG11	2.50	0.51
1:SF:245:GLN:O	2:SG:11:GLN:NE2	2.43	0.51
1:SH:121:ARG:NH1	1:SH:158:GLU:OE2	2.42	0.51
1:SH:208:TYR:CE1	1:SH:225:LEU:HD11	2.45	0.51
2:SI:97:GLU:OE2	2:SI:105:ARG:NH2	2.40	0.51
1:T:5:VAL:HG23	1:T:62:ARG:HB3	1.91	0.51
1:T:165:MET:HE1	1:T:236:VAL:HG11	1.91	0.51
1:TB:63:ALA:O	1:TB:89:ASN:ND2	2.44	0.51
2:TE:53:PHE:HB3	2:TE:61:HIS:HB3	1.92	0.51
2:TE:103:TYR:HB3	2:TE:408:TYR:HE2	1.76	0.51
2:TG:326:LYS:HD2	1:TH:212:PHE:CE2	2.45	0.51
1:TH:109:GLY:HA3	1:TH:147:MET:SD	2.50	0.51
1:TJ:331:LEU:HD22	2:TK:177:VAL:HG22	1.92	0.51
2:UA:11:GLN:N	71:UA:501:GTP:O2B	2.29	0.51
2:UC:265:ILE:HG22	2:UC:380:ASN:HD21	1.76	0.51
1:UL:385:PHE:HE2	1:UL:412:GLU:HB2	1.75	0.51
1:UL:406:MET:O	1:UL:410:GLU:HG3	2.09	0.51
2:VA:352:LYS:NZ	1:VB:178:THR:HG22	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VD:32:PRO:HG3	1:VD:81:TYR:HE1	1.76	0.51
2:VE:122:ILE:HG21	2:VE:157:LEU:HD11	1.91	0.51
2:VG:326:LYS:HD3	1:VH:220:PRO:HD2	1.93	0.51
1:VJ:3:GLU:O	1:VJ:131:GLN:N	2.43	0.51
2:VM:320:ARG:NH1	2:VM:360:PRO:HG3	2.26	0.51
2:WC:257:THR:HG21	1:WD:98:GLY:O	2.11	0.51
1:WD:170:ILE:N	1:WD:202:ILE:O	2.41	0.51
1:WH:63:ALA:O	1:WH:89:ASN:ND2	2.41	0.51
1:WH:134:GLN:HG3	1:WH:165:MET:HG3	1.91	0.51
1:WH:311:LEU:HA	1:WH:342:ILE:HD12	1.92	0.51
1:WJ:377:MET:HA	1:WJ:380:ARG:NH1	2.26	0.51
2:WK:328:VAL:O	2:WK:332:ILE:HG12	2.10	0.51
1:WL:73:MET:HG3	1:WL:92:PHE:HB3	1.92	0.51
2:WM:239:THR:OG1	2:WM:243:ARG:NH1	2.43	0.51
9:0L:22:LEU:HD22	9:0L:25:SER:HA	1.91	0.51
13:0Y:164:PRO:HB3	32:2B:115:ALA:HB1	1.92	0.51
21:0w:454:LYS:NZ	21:0w:458:GLU:HG3	2.24	0.51
24:1H:734:ARG:HB3	24:1H:740:SER:HB2	1.92	0.51
24:1I:696:MET:SD	24:1I:700:ARG:NH2	2.84	0.51
24:1I:718:HIS:HB3	24:1I:749:ILE:HD12	1.91	0.51
24:1J:260:THR:OG1	24:1J:359:HIS:NE2	2.35	0.51
25:1O:38:ARG:HD2	25:1O:41:LEU:HD23	1.92	0.51
25:1O:530:PHE:HE1	25:1O:536:VAL:HG21	1.74	0.51
25:1O:537:GLU:OE2	25:1O:540:ARG:N	2.32	0.51
26:1Q:89:PHE:HE2	26:1Q:153:LEU:HB3	1.74	0.51
27:1S:284:ARG:NE	27:1S:304:GLU:OE2	2.43	0.51
28:1X:236:CYS:O	28:1X:239:THR:HG22	2.09	0.51
31:1t:164:ALA:HB3	22:1y:193:ARG:HH12	1.75	0.51
32:2B:217:SER:OG	32:2B:218:ALA:N	2.41	0.51
38:2U:101:ARG:HD3	38:2U:105:ALA:HA	1.92	0.51
41:2o:460:ASP:O	41:2o:463:ARG:HG3	2.11	0.51
44:2w:210:ILE:HA	44:2w:213:MET:HG3	1.93	0.51
49:3Q:69:VAL:O	49:3Q:72:GLU:HG2	2.10	0.51
1:AB:222:PHE:O	1:AB:226:ASN:ND2	2.43	0.51
1:AF:42:LEU:HD23	54:3Z:441:LYS:HE3	1.92	0.51
1:AF:174:ARG:HH12	1:AF:380:ARG:HH11	1.58	0.51
2:AG:167:LEU:HD23	2:AG:200:VAL:HB	1.92	0.51
2:AG:213:THR:HG23	2:AG:217:LEU:HD12	1.91	0.51
1:AH:314:SER:HB3	1:AH:368:ILE:HB	1.93	0.51
1:AH:324:LYS:HD2	2:AI:222:PRO:HD2	1.92	0.51
1:AJ:19:LYS:NZ	1:AJ:223:GLY:O	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:46:ARG:NH2	2:BA:73:THR:HA	2.24	0.51
1:B:206:ALA:HB2	1:B:302:ALA:HB2	1.92	0.51
2:BA:219:ILE:HD13	16:0k:806:HIS:HE2	1.74	0.51
1:BB:259:PRO:HG3	1:BB:311:LEU:HD13	1.92	0.51
2:BC:276:VAL:HB	2:BC:280:LYS:HB3	1.91	0.51
1:BF:36:TYR:OH	1:BF:40:SER:O	2.28	0.51
2:BG:308:ARG:HG3	2:BG:308:ARG:HH11	1.74	0.51
2:BI:27:GLU:OE1	2:BI:243:ARG:NH1	2.43	0.51
2:BI:345:ASP:OD1	2:BI:346:TRP:N	2.43	0.51
1:BL:22:GLU:HA	1:BL:81:TYR:CD2	2.45	0.51
1:CA:113:ILE:HA	1:CA:116:VAL:HG12	1.92	0.51
1:CA:316:LEU:HD13	1:CA:352:SER:OG	2.10	0.51
2:CB:1:MET:N	2:CB:3:GLU:OE2	2.43	0.51
2:CB:52:PHE:HZ	2:CB:239:THR:HG21	1.74	0.51
2:CB:186:ASN:OD1	2:CB:408:TYR:OH	2.27	0.51
2:CB:194:LEU:O	2:CB:266:HIS:NE2	2.36	0.51
2:CD:254:GLU:HG2	1:CE:98:GLY:HA2	1.91	0.51
2:CH:205:ASP:OD1	2:CH:303:THR:HA	2.10	0.51
1:CM:375:GLN:OE1	1:CM:379:ARG:NH2	2.43	0.51
1:DE:385:PHE:HE2	1:DE:412:GLU:HB3	1.76	0.51
1:DE:411:ALA:O	1:DE:415:MET:HG2	2.11	0.51
1:DG:344:TRP:CG	2:DH:401:LYS:HZ3	2.28	0.51
1:DM:36:TYR:CZ	1:DM:44:LEU:HD11	2.45	0.51
1:E:230:ALA:O	1:E:233:MET:HB2	2.10	0.51
1:E:293:MET:HE3	1:E:294:PHE:CE1	2.45	0.51
2:EC:315:CYS:HB3	2:EC:377:MET:HE1	1.91	0.51
1:EF:66:MET:HE1	1:EF:151:LEU:HD22	1.92	0.51
1:EH:253:LEU:HD21	1:EH:316:LEU:HD11	1.90	0.51
1:F:204:ASN:HD21	69:F:500:GDP:H1'	1.75	0.51
2:FA:172:TYR:CD1	2:FA:203:MET:HG3	2.46	0.51
1:FH:284:LEU:HD23	1:FH:362:LYS:HE3	1.91	0.51
2:FI:237:SER:HA	2:FI:320:ARG:HD2	1.93	0.51
1:FJ:19:LYS:NZ	1:FJ:223:GLY:O	2.43	0.51
1:GB:20:PHE:O	1:GB:24:ILE:HG12	2.09	0.51
1:GD:149:THR:HA	1:GD:152:ILE:HD12	1.91	0.51
1:GH:330:MET:SD	1:GH:349:ILE:HG21	2.51	0.51
2:GK:167:LEU:HD21	2:GK:255:PHE:HZ	1.76	0.51
2:HA:277:SER:O	2:HA:281:ALA:CB	2.58	0.51
1:HB:31:ASP:HA	1:HB:37:GLN:HE22	1.75	0.51
1:HD:350:LYS:HD2	2:HE:179:THR:O	2.10	0.51
2:HG:309:HIS:ND1	2:HG:386:GLU:OE2	2.36	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IH:97:ALA:HB2	1:IH:143:THR:HB	1.92	0.51
2:II:144:GLY:N	71:II:501:GTP:O1B	2.44	0.51
2:IK:204:LEU:HD22	2:IK:231:ILE:HD12	1.92	0.51
2:JH:27:GLU:OE1	2:JH:243:ARG:NH2	2.43	0.51
1:JI:32:PRO:HG3	1:JI:81:TYR:CE1	2.45	0.51
2:JL:192:HIS:CE1	2:JL:420:GLU:HG2	2.46	0.51
2:KB:3:GLU:HA	2:KB:51:THR:HA	1.92	0.51
1:KC:309:ARG:H	1:KC:372:THR:HG1	1.56	0.51
2:KH:70:LEU:HD13	2:KH:110:ILE:HG22	1.91	0.51
2:KL:167:LEU:HD23	2:KL:200:VAL:HB	1.92	0.51
2:KN:334:THR:HB	2:KN:338:LYS:HZ3	1.75	0.51
2:LB:9:ILE:HD11	2:LB:153:LEU:HD23	1.91	0.51
2:LB:28:HIS:NE2	2:LB:243:ARG:HD2	2.25	0.51
1:LC:384:GLN:O	1:LC:388:MET:HG3	2.11	0.51
1:LG:145:SER:HB2	1:LG:188:SER:OG	2.11	0.51
1:LG:164:MET:H	1:LG:197:ASP:HB2	1.74	0.51
1:LM:113:ILE:HG12	1:LM:117:LEU:HD23	1.93	0.51
1:LM:245:GLN:HE21	2:LN:224:TYR:HB2	1.76	0.51
2:LN:160:ASP:HB3	2:LN:161:TYR:CD1	2.46	0.51
2:LN:247:ALA:HB3	2:LN:355:ILE:HB	1.93	0.51
2:MG:79:ARG:HH22	2:MG:94:SER:HB2	1.76	0.51
2:MG:295:VAL:HG13	2:MG:377:MET:HB2	1.93	0.51
1:MH:311:LEU:HD23	1:MH:342:ILE:HD13	1.91	0.51
2:MI:298:PRO:HB3	2:MI:307:PRO:HD2	1.92	0.51
2:MI:353:CYS:H	1:MJ:177:ASP:HB2	1.75	0.51
1:MJ:113:ILE:HA	1:MJ:116:VAL:HG12	1.92	0.51
1:MN:323:THR:HA	1:MN:326:VAL:HG12	1.93	0.51
2:NE:213:THR:HG22	2:NE:217:LEU:HD12	1.91	0.51
2:NG:209:ILE:HG21	2:NG:227:VAL:HG13	1.92	0.51
1:NH:253:LEU:HD11	1:NH:316:LEU:HD11	1.91	0.51
1:NJ:185:THR:O	1:NJ:189:VAL:HG23	2.11	0.51
2:NM:372:GLN:OE1	2:NM:373:ARG:NH2	2.42	0.51
1:O:135:LEU:HD23	1:O:152:ILE:HD11	1.91	0.51
2:OA:217:LEU:HA	2:OA:277:SER:HB3	1.91	0.51
2:OE:177:VAL:N	2:OE:207:GLU:OE2	2.31	0.51
2:OE:252:LEU:HA	2:OE:255:PHE:CE1	2.45	0.51
1:OF:323:THR:HG21	2:OG:224:TYR:CE1	2.45	0.51
1:OH:192:LEU:O	1:OH:196:SER:HB3	2.10	0.51
1:OJ:324:LYS:HZ1	2:OK:222:PRO:CB	2.17	0.51
1:PB:113:ILE:HD13	1:PB:150:LEU:HG	1.92	0.51
1:PB:144:GLY:N	69:PB:500:GDP:O2B	2.38	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PC:155:GLU:HG2	2:PC:197:HIS:CD2	2.45	0.51
1:PF:73:MET:HE2	1:PF:73:MET:HA	1.92	0.51
2:PM:51:THR:HG21	2:PM:243:ARG:HA	1.91	0.51
2:Q:196:GLU:HB3	2:Q:197:HIS:CE1	2.45	0.51
1:QA:172:SER:OG	1:QA:205:GLU:OE1	2.25	0.51
1:QC:24:ILE:HG21	1:QC:50:TYR:HD2	1.74	0.51
1:QC:209:ASP:OD1	1:QC:213:ARG:NE	2.22	0.51
1:QG:236:VAL:HA	1:QG:316:LEU:HD22	1.92	0.51
2:QL:185:TYR:HE2	2:QL:404:PHE:HB2	1.76	0.51
2:QL:212:LEU:HD13	2:QL:302:LEU:HD23	1.92	0.51
2:QL:273:ALA:HB3	2:QL:295:VAL:HG23	1.92	0.51
2:RH:319:TYR:HB3	2:RH:323:VAL:HG11	1.90	0.51
1:RI:3:GLU:HG3	1:RI:49:VAL:HA	1.91	0.51
2:RJ:178:SER:OG	2:RJ:183:GLU:OE1	2.28	0.51
1:RK:267:MET:N	1:RK:369:GLY:O	2.44	0.51
2:SA:60:LYS:NZ	2:SA:85:GLN:O	2.44	0.51
2:SA:237:SER:HA	2:SA:320:ARG:HH11	1.75	0.51
1:SD:198:GLU:OE2	1:SD:254:ALA:HB2	2.10	0.51
1:SF:326:VAL:HG21	1:SF:353:ILE:HD11	1.92	0.51
1:SJ:398:TYR:HB3	1:SJ:403:MET:HE3	1.92	0.51
1:T:345:ILE:HD11	2:TA:404:PHE:CE2	2.45	0.51
1:TB:273:LEU:HD13	1:TB:298:ASN:OD1	2.09	0.51
2:TC:120:ASP:OD1	2:TC:123:ARG:NH1	2.38	0.51
2:TE:188:VAL:HG12	2:TE:421:ALA:HB1	1.92	0.51
2:TI:237:SER:HA	2:TI:320:ARG:HD2	1.92	0.51
2:TK:155:GLU:HA	2:TK:197:HIS:ND1	2.25	0.51
1:TL:167:PHE:CD2	1:TL:233:MET:HG3	2.46	0.51
1:UD:20:PHE:HB2	1:UD:233:MET:HE3	1.92	0.51
2:UI:79:ARG:HG3	2:UI:92:LEU:HD22	1.91	0.51
2:VA:252:LEU:O	2:VA:256:GLN:HG3	2.10	0.51
1:VB:392:LYS:HE2	1:VB:395:LEU:HD23	1.91	0.51
2:VE:172:TYR:HH	2:VE:267:PHE:HE2	1.59	0.51
2:VI:1:MET:N	2:VI:3:GLU:OE2	2.41	0.51
2:WA:237:SER:HA	2:WA:320:ARG:HD2	1.93	0.51
2:WA:345:ASP:OD1	2:WA:346:TRP:N	2.43	0.51
1:WD:323:THR:HG21	2:WE:224:TYR:CZ	2.45	0.51
1:WF:347:ASN:ND2	2:WG:178:SER:O	2.41	0.51
1:WH:384:GLN:O	1:WH:388:MET:HG3	2.10	0.51
2:WI:155:GLU:HG2	2:WI:197:HIS:CE1	2.45	0.51
2:WK:5:ILE:HD13	2:WK:64:ARG:HB3	1.93	0.51
3:XA:73:LEU:HB2	3:XA:167:PHE:HB3	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:XM:18:SER:HA	4:XM:21:LYS:HE3	1.93	0.51
6:0A:159:ASN:O	33:2I:286:PRO:HB3	2.09	0.51
11:0U:8:THR:HG22	11:0U:79:GLY:HA3	1.92	0.51
16:0l:41:ILE:O	16:0l:96:VAL:N	2.43	0.51
17:0n:88:TYR:HH	17:0o:411:HIS:HE2	1.56	0.51
28:1X:159:GLN:O	28:1X:161:ARG:NH1	2.43	0.51
32:2B:31:SER:O	32:2B:35:LEU:HG	2.10	0.51
46:3B:38:LEU:HD22	46:3B:42:ARG:HH21	1.74	0.51
48:3G:101:ASP:O	48:3G:104:GLN:HG3	2.10	0.51
62:4B:307:THR:H	62:4B:310:TYR:HD2	1.58	0.51
1:A:238:CYS:HB3	1:A:318:ARG:HH11	1.75	0.51
1:A:274:THR:HG22	1:A:282:ARG:CZ	2.41	0.51
2:AE:37:PRO:HG2	2:AE:40:LYS:HB2	1.92	0.51
2:AE:247:ALA:HB3	2:AE:355:ILE:HB	1.93	0.51
1:B:385:PHE:HE2	1:B:412:GLU:HB2	1.76	0.51
2:BA:304:LYS:HA	2:BA:304:LYS:HE2	1.92	0.51
1:BD:330:MET:HA	1:BD:333:VAL:HG12	1.93	0.51
2:BE:91:GLN:H	2:BE:121:ARG:HH11	1.58	0.51
2:BE:117:LEU:HD11	2:BE:121:ARG:HH21	1.75	0.51
2:BG:70:LEU:HD12	2:BG:99:ALA:HB2	1.92	0.51
2:BG:326:LYS:NZ	1:BH:220:PRO:HG2	2.26	0.51
2:BI:223:SER:OG	2:BI:224:TYR:N	2.41	0.51
2:BI:317:LEU:HD13	2:BI:377:MET:HG3	1.93	0.51
2:CL:270:THR:HG23	2:CL:302:LEU:HD23	1.93	0.51
2:DB:69:ASP:OD1	2:DB:70:LEU:N	2.43	0.51
2:DB:346:TRP:CD1	1:DC:391:ARG:HD3	2.46	0.51
1:DC:358:PRO:HB2	1:DC:361:LEU:HD13	1.92	0.51
2:DL:167:LEU:HD23	2:DL:200:VAL:HB	1.93	0.51
1:DM:113:ILE:HG13	1:DM:117:LEU:HD23	1.91	0.51
1:E:245:GLN:O	2:EA:11:GLN:NE2	2.43	0.51
1:E:344:TRP:CD2	2:EA:401:LYS:HD2	2.45	0.51
1:EB:267:MET:HE2	1:EB:299:MET:HE2	1.93	0.51
1:ED:46:ARG:NH2	2:EE:76:ASP:OD2	2.40	0.51
1:ED:284:LEU:HD11	1:ED:362:LYS:HB3	1.92	0.51
2:EE:9:ILE:HD13	2:EE:150:GLY:HA2	1.92	0.51
1:EH:185:THR:O	1:EH:189:VAL:HG23	2.10	0.51
1:F:56:GLY:O	10:0R:285:LYS:NZ	2.22	0.51
1:F:184:ASN:OD1	1:F:398:TYR:OH	2.26	0.51
2:FA:8:HIS:HE1	2:FA:21:TRP:HE1	1.58	0.51
2:FA:315:CYS:HB3	2:FA:377:MET:HE2	1.91	0.51
1:FB:33:THR:O	1:FB:58:ARG:NH2	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FC:406:HIS:HA	2:FC:409:VAL:HG22	1.92	0.51
1:FL:124:ALA:HB1	1:FL:130:LEU:HD22	1.90	0.51
1:GD:113:ILE:HG12	1:GD:117:LEU:HD23	1.91	0.51
1:GD:245:GLN:NE2	2:GE:223:SER:OG	2.35	0.51
1:GH:251:ARG:HD2	2:GI:105:ARG:NH2	2.26	0.51
2:GI:167:LEU:HD23	2:GI:200:VAL:HB	1.92	0.51
2:GK:70:LEU:HD12	2:GK:99:ALA:HB2	1.91	0.51
2:GK:142:GLY:CA	2:GK:183:GLU:HG3	2.40	0.51
1:H:174:ARG:HB3	1:H:205:GLU:OE2	2.11	0.51
2:HA:118:ALA:O	2:HA:122:ILE:HG12	2.10	0.51
1:HB:323:THR:HA	1:HB:326:VAL:HB	1.92	0.51
2:HC:326:LYS:HD2	1:HD:220:PRO:HG2	1.93	0.51
2:HE:205:ASP:OD1	2:HE:303:THR:HA	2.10	0.51
2:HE:250:VAL:HA	2:HE:254:GLU:HG2	1.93	0.51
1:HF:350:LYS:NZ	1:HF:352:SER:OG	2.37	0.51
1:HJ:139:LEU:HG	1:HJ:168:SER:HB3	1.92	0.51
1:HL:183:TYR:CE1	1:HL:388:MET:HE3	2.45	0.51
2:IA:205:ASP:OD2	2:IA:205:ASP:N	2.41	0.51
1:IF:156:ARG:HH22	1:IF:197:ASP:CG	2.18	0.51
1:IF:239:CYS:HB3	1:IF:248:SER:H	1.75	0.51
2:II:74:VAL:O	2:II:78:VAL:HG23	2.10	0.51
2:II:185:TYR:OH	2:II:403:ALA:O	2.26	0.51
2:IK:259:LEU:HD21	2:IK:316:CYS:SG	2.50	0.51
1:IL:171:PRO:HG3	1:IL:181:GLU:OE1	2.09	0.51
2:J:352:LYS:HZ2	1:JA:179:VAL:HG13	1.75	0.51
2:JB:172:TYR:HE2	2:JB:203:MET:HE1	1.74	0.51
1:JC:355:ASP:OD2	15:0f:95:ALA:HA	2.10	0.51
2:JF:138:PHE:HE2	2:JF:235:VAL:HG21	1.75	0.51
1:JG:164:MET:HE3	1:JG:164:MET:HA	1.92	0.51
1:JG:322:SER:HA	2:JH:223:SER:HB2	1.91	0.51
1:JK:68:LEU:HD12	1:JK:97:ALA:HB2	1.92	0.51
1:JK:113:ILE:HD12	1:JK:150:LEU:HG	1.92	0.51
1:JK:235:GLY:HA3	1:JK:366:THR:HG21	1.91	0.51
1:JM:245:GLN:HB2	1:JM:353:ILE:HD11	1.93	0.51
2:JN:122:ILE:HG21	2:JN:157:LEU:HD11	1.92	0.51
2:JN:253:THR:HA	2:JN:256:GLN:OE1	2.10	0.51
2:KB:55:GLU:OE2	2:KB:61:HIS:NE2	2.43	0.51
1:KE:322:SER:OG	1:KE:323:THR:N	2.43	0.51
1:KG:10:GLY:O	1:KG:14:ASN:ND2	2.39	0.51
1:KG:170:ILE:N	1:KG:202:ILE:O	2.43	0.51
2:KH:58:ALA:HA	23:1E:179:GLN:HG2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LA:83:GLN:O	1:M:281:TYR:OH	2.29	0.51
1:LA:389:PHE:HZ	1:LA:405:GLU:HG3	1.75	0.51
2:LB:390:ARG:O	2:LB:394:LYS:HG2	2.09	0.51
1:LC:358:PRO:HB2	1:LC:361:LEU:HD12	1.91	0.51
1:LC:404:ASP:OD2	1:LC:404:ASP:N	2.44	0.51
1:LE:144:GLY:N	69:LE:500:GDP:O2B	2.42	0.51
1:LE:253:LEU:HD23	1:LE:368:ILE:HD12	1.93	0.51
2:LF:340:THR:HG23	35:2N:233:ASP:OD1	2.11	0.51
1:LG:117:LEU:HG	13:0Z:80:VAL:HG21	1.92	0.51
2:LH:47:ASP:OD1	2:LH:47:ASP:N	2.43	0.51
1:LI:255:VAL:HG23	2:LJ:407:TRP:CG	2.45	0.51
1:LK:350:LYS:NZ	1:LK:352:SER:OG	2.44	0.51
2:LL:309:HIS:HD2	31:1s:35:ARG:HH22	1.58	0.51
1:LM:392:LYS:HG3	1:LM:395:LEU:HD22	1.93	0.51
2:LN:195:LEU:HD21	2:LN:264:ARG:HE	1.76	0.51
1:LO:41:ASP:OD2	29:1m:213:LEU:HG	2.09	0.51
1:M:226:ASN:HA	1:M:229:VAL:HG22	1.92	0.51
2:MA:237:SER:HA	2:MA:320:ARG:HH11	1.75	0.51
1:MF:303:ALA:HB1	1:MF:373:CYS:SG	2.50	0.51
1:MJ:324:LYS:HD3	2:MK:210:TYR:CG	2.46	0.51
1:MN:165:MET:HE2	1:MN:167:PHE:CE2	2.45	0.51
1:N:19:LYS:O	1:N:22:GLU:HB3	2.11	0.51
1:N:372:THR:HG21	1:N:426:GLN:HB2	1.93	0.51
1:NB:153:SER:O	1:NB:157:GLU:HG3	2.11	0.51
1:ND:174:ARG:NH2	1:ND:205:GLU:HB2	2.26	0.51
1:NF:34:GLY:HA3	1:NF:58:ARG:HG3	1.92	0.51
1:NJ:46:ARG:NH2	2:NK:72:PRO:O	2.44	0.51
1:NJ:226:ASN:OD1	69:NJ:500:GDP:N1	2.41	0.51
1:NJ:309:ARG:NH2	1:NJ:426:GLN:O	2.42	0.51
2:NK:84:ARG:NE	2:NK:84:ARG:HA	2.25	0.51
2:NM:158:SER:OG	2:NM:166:LYS:NZ	2.42	0.51
2:NM:182:VAL:HG22	2:NM:185:TYR:HB2	1.92	0.51
2:OA:213:THR:HA	2:OA:217:LEU:HD23	1.91	0.51
1:OB:11:GLN:HE22	69:OB:500:GDP:H8	1.58	0.51
2:OE:237:SER:HA	2:OE:320:ARG:HD2	1.91	0.51
1:OF:226:ASN:HA	1:OF:229:VAL:HG22	1.93	0.51
2:OG:390:ARG:O	2:OG:394:LYS:HG3	2.10	0.51
2:OI:175:PRO:HB2	2:OI:176:GLN:OE1	2.10	0.51
2:OK:254:GLU:CD	1:OL:98:GLY:HA2	2.34	0.51
2:OM:6:CYS:O	2:OM:65:CYS:HA	2.10	0.51
2:PA:335:ILE:HG23	2:PA:341:ILE:HD11	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PB:150:LEU:O	1:PB:154:LYS:HG2	2.11	0.51
1:PF:378:PHE:CD1	1:PF:418:LEU:HD22	2.46	0.51
2:PG:387:VAL:HG12	2:PG:390:ARG:HH22	1.74	0.51
1:PH:149:THR:O	1:PH:152:ILE:HG22	2.11	0.51
1:PH:377:MET:HG3	1:PH:378:PHE:HD1	1.73	0.51
2:PI:167:LEU:HD11	2:PI:255:PHE:HZ	1.75	0.51
2:PI:213:THR:HG23	2:PI:217:LEU:HD12	1.92	0.51
1:PJ:215:LEU:HB3	1:PJ:217:LEU:HD13	1.91	0.51
2:PK:201:ALA:HB3	2:PK:267:PHE:CD1	2.45	0.51
2:PM:211:ASP:O	2:PM:215:ARG:HG2	2.11	0.51
2:QB:155:GLU:HG3	2:QB:197:HIS:CD2	2.45	0.51
2:QB:178:SER:HB2	2:QB:183:GLU:OE1	2.10	0.51
2:QB:253:THR:HA	2:QB:256:GLN:HB3	1.92	0.51
2:QB:254:GLU:HG3	2:QB:352:LYS:NZ	2.25	0.51
1:QE:326:VAL:HG21	1:QE:353:ILE:HD11	1.92	0.51
2:QF:136:MET:HE1	2:QF:235:VAL:HG13	1.93	0.51
1:QG:347:ASN:O	2:QH:181:VAL:HG12	2.11	0.51
2:QL:406:HIS:HA	2:QL:409:VAL:HG22	1.91	0.51
2:R:259:LEU:HD11	2:R:378:ILE:HG13	1.91	0.51
1:RA:10:GLY:O	1:RA:14:ASN:ND2	2.39	0.51
1:RA:260:PHE:HB2	1:RA:263:LEU:HD23	1.92	0.51
1:RA:317:PHE:HD2	1:RA:321:MET:HE1	1.75	0.51
2:RD:326:LYS:NZ	1:RE:220:PRO:HG2	2.24	0.51
2:RF:250:VAL:HA	2:RF:254:GLU:HG2	1.93	0.51
1:RK:46:ARG:HH21	2:RL:73:THR:HA	1.74	0.51
2:SI:103:TYR:HD2	2:SI:413:MET:HE1	1.76	0.51
2:SK:116:ASP:OD1	61:3x:103:PRO:HB2	2.10	0.51
1:T:116:VAL:HG11	1:T:151:LEU:HD11	1.92	0.51
1:T:255:VAL:HG23	2:TA:407:TRP:CG	2.44	0.51
2:TA:325:PRO:HA	2:TA:328:VAL:HG12	1.91	0.51
2:TC:6:CYS:O	2:TC:65:CYS:HA	2.11	0.51
1:TD:113:ILE:HD11	1:TD:151:LEU:HD13	1.91	0.51
1:TH:386:THR:O	1:TH:390:ARG:HB2	2.10	0.51
1:TJ:187:LEU:HD22	1:TJ:403:MET:HE1	1.92	0.51
1:TL:156:ARG:NH2	1:TL:160:PRO:O	2.42	0.51
1:TL:178:THR:HG22	1:TL:180:VAL:H	1.76	0.51
1:TL:221:THR:HG22	1:TL:222:PHE:N	2.25	0.51
2:UA:155:GLU:HG2	2:UA:197:HIS:CD2	2.46	0.51
2:UA:237:SER:HA	2:UA:320:ARG:HH11	1.75	0.51
1:UB:20:PHE:HA	1:UB:230:ALA:HB1	1.93	0.51
2:UC:27:GLU:OE1	2:UC:243:ARG:NH1	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UF:68:LEU:HD12	1:UF:97:ALA:HB2	1.92	0.51
1:UH:73:MET:HG3	1:UH:92:PHE:HB3	1.92	0.51
1:UH:263:LEU:HD11	1:UH:425:TYR:HD2	1.75	0.51
1:VB:91:ILE:HG21	1:VB:116:VAL:HB	1.93	0.51
1:VB:159:TYR:HB3	1:VB:162:ARG:HG3	1.92	0.51
1:VF:10:GLY:HA2	1:VF:143:THR:HG23	1.93	0.51
2:VG:251:ASP:H	2:VG:254:GLU:HB2	1.75	0.51
2:VI:67:PHE:HB2	2:VI:92:LEU:HD23	1.93	0.51
2:VM:204:LEU:HD13	2:VM:231:ILE:HD12	1.92	0.51
1:W:255:VAL:HG11	2:WA:100:ALA:O	2.10	0.51
2:WA:27:GLU:OE1	2:WA:243:ARG:NH1	2.38	0.51
2:WA:127:ASP:HB2	4:XM:172:PRO:HG3	1.92	0.51
1:WD:253:LEU:O	1:WD:257:LEU:HB2	2.10	0.51
2:WG:124:LYS:HD2	5:XP:30:PHE:CD1	2.45	0.51
2:WM:6:CYS:O	2:WM:65:CYS:HA	2.11	0.51
2:WM:139:HIS:O	2:WM:170:THR:HA	2.10	0.51
3:X:25:TRP:CD2	3:X:61:CYS:HB2	2.46	0.51
3:XC:30:ARG:H	3:XC:57:CYS:HB3	1.76	0.51
9:0O:269:LEU:HB3	9:0O:279:ASN:HB2	1.92	0.51
11:0U:92:GLY:HA3	11:0U:155:ARG:HH11	1.75	0.51
11:0U:205:PRO:HD2	11:0U:260:GLN:HE22	1.74	0.51
16:0l:16:ARG:HH22	16:0l:105:LEU:HD22	1.76	0.51
16:0l:418:LEU:HB3	16:0l:477:TYR:CD2	2.45	0.51
19:0r:178:VAL:HG23	19:0r:182:ARG:HH12	1.75	0.51
23:1B:325:GLU:HG2	44:2w:23:ARG:HD2	1.91	0.51
24:1H:509:ASP:OD1	24:1H:510:GLU:N	2.43	0.51
24:1K:110:VAL:HG11	24:1K:209:TYR:HD1	1.75	0.51
25:1O:575:LEU:HD23	25:1O:627:LEU:HD11	1.92	0.51
27:1S:147:PHE:CE1	27:1S:173:ARG:HG3	2.46	0.51
28:1X:152:PRO:O	28:1X:156:LEU:HD23	2.11	0.51
37:2S:222:VAL:HG13	37:2S:236:VAL:HG21	1.93	0.51
44:2w:21:TYR:HB2	44:2w:43:CYS:SG	2.49	0.51
47:3D:324:GLU:HA	47:3D:329:VAL:HG11	1.92	0.51
58:3m:126:TYR:CE2	59:3p:116:GLU:HG3	2.45	0.51
64:5C:92:GLY:O	64:5C:95:THR:OG1	2.25	0.51
64:5D:80:MET:HG2	65:5I:69:LEU:HD21	1.92	0.51
66:5L:125:ASP:OD1	66:5L:126:THR:N	2.43	0.51
67:5O:22:PHE:HA	67:5O:55:GLY:HA3	1.91	0.51
2:AC:172:TYR:CE2	2:AC:203:MET:HE1	2.45	0.51
1:AD:21:TRP:HZ3	1:AD:50:TYR:HB3	1.75	0.51
1:AH:311:LEU:HA	1:AH:342:ILE:HD12	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AI:422:ARG:NH1	2:AI:426:ALA:HB2	2.25	0.51
2:AK:3:GLU:O	2:AK:133:GLN:N	2.25	0.51
2:AK:215:ARG:NH1	2:AK:216:SER:HB2	2.26	0.51
2:AK:348:PRO:HG3	1:AL:384:GLN:HG3	1.92	0.51
1:AL:83:GLN:NE2	24:1J:145:ALA:HB1	2.26	0.51
1:AL:182:PRO:HG2	1:AL:384:GLN:HG2	1.92	0.51
1:AL:327:ASP:HB3	2:AM:177:VAL:HG11	1.92	0.51
1:AN:232:VAL:HG11	1:AN:268:MET:SD	2.51	0.51
2:BC:271:SER:HB3	2:BC:301:MET:HA	1.91	0.51
1:BD:109:GLY:HA2	1:BD:147:MET:HE2	1.91	0.51
1:BL:113:ILE:HG13	1:BL:117:LEU:HD23	1.93	0.51
2:BM:59:GLY:HA3	24:1K:245:ARG:HE	1.75	0.51
1:BN:260:PHE:HB2	1:BN:263:LEU:HD13	1.91	0.51
2:C:370:LYS:HE3	24:1H:251:ASP:HB3	1.91	0.51
1:CG:62:ARG:NH1	1:CG:127:CYS:SG	2.84	0.51
2:CH:273:ALA:HB3	2:CH:295:VAL:HG23	1.91	0.51
1:CK:404:ASP:OD1	1:CK:405:GLU:N	2.39	0.51
2:DF:396:ASP:OD2	2:DF:422:ARG:NH2	2.38	0.51
1:DK:173:PRO:HA	1:DK:176:SER:HB3	1.92	0.51
2:EA:259:LEU:HD11	2:EA:378:ILE:HG23	1.92	0.51
1:ED:10:GLY:O	1:ED:14:ASN:ND2	2.40	0.51
1:EF:45:GLU:OE2	1:EF:46:ARG:NH2	2.44	0.51
1:EH:9:ALA:HB3	1:EH:137:HIS:HB3	1.92	0.51
1:EH:289:LEU:HD11	1:EH:363:MET:HG3	1.91	0.51
2:EI:90:GLU:HB2	2:EI:121:ARG:NH1	2.26	0.51
2:EI:167:LEU:HD13	2:EI:200:VAL:HB	1.93	0.51
1:EJ:121:ARG:NH2	1:EJ:158:GLU:OE2	2.43	0.51
1:EJ:237:THR:HG22	1:EJ:250:LEU:HD21	1.93	0.51
1:FB:316:LEU:HB2	1:FB:366:THR:OG1	2.10	0.51
2:FC:120:ASP:OD1	2:FC:124:LYS:NZ	2.35	0.51
2:FG:150:GLY:O	2:FG:154:LEU:HD23	2.11	0.51
2:FI:295:VAL:HG21	2:FI:375:VAL:HG13	1.93	0.51
1:FL:321:MET:HB3	1:FL:363:MET:HE3	1.93	0.51
1:G:269:GLY:C	1:G:293:MET:HE1	2.36	0.51
1:GB:198:GLU:HB2	1:GB:266:PHE:CE2	2.45	0.51
1:GB:245:GLN:HE21	2:GC:224:TYR:HB2	1.74	0.51
2:GC:112:LYS:HA	2:GC:115:VAL:HG12	1.91	0.51
2:GC:152:LEU:HD11	2:GC:156:ARG:HH21	1.75	0.51
2:GC:205:ASP:OD1	2:GC:303:THR:HA	2.10	0.51
1:GD:2:ARG:N	1:GD:131:GLN:HB2	2.25	0.51
1:GF:322:SER:OG	2:GG:222:PRO:O	2.22	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GH:152:ILE:HD11	1:GH:164:MET:HG3	1.92	0.51
1:GJ:4:ILE:HD11	1:GJ:240:LEU:HD22	1.92	0.51
1:GL:25:SER:OG	1:GL:30:VAL:O	2.28	0.51
1:H:50:TYR:CD2	1:H:241:ARG:HD3	2.46	0.51
1:H:239:CYS:SG	1:H:248:SER:N	2.84	0.51
1:H:287:ALA:O	1:H:290:THR:OG1	2.27	0.51
1:ID:165:MET:SD	1:ID:250:LEU:HD11	2.50	0.51
1:ID:290:THR:HA	1:ID:293:MET:HE3	1.93	0.51
2:IE:8:HIS:HD1	2:IE:17:GLY:HA3	1.75	0.51
1:IH:346:PRO:O	2:II:394:LYS:NZ	2.42	0.51
1:JA:253:LEU:HD11	1:JA:316:LEU:HD11	1.92	0.51
2:JB:392:ASP:HB2	2:JB:422:ARG:CZ	2.41	0.51
1:JC:32:PRO:HG3	1:JC:81:TYR:CD1	2.45	0.51
1:JG:235:GLY:HA3	1:JG:366:THR:HG21	1.92	0.51
1:JK:3:GLU:HA	1:JK:49:VAL:HG13	1.92	0.51
1:JK:388:MET:HB3	1:JK:393:ALA:HB3	1.91	0.51
2:JL:421:ALA:O	2:JL:425:LEU:HD23	2.10	0.51
1:JM:14:ASN:HB3	1:JM:76:VAL:HG21	1.92	0.51
2:JN:402:ARG:HG3	60:3t:61:ILE:HD12	1.93	0.51
2:KF:273:ALA:HB3	2:KF:295:VAL:HG23	1.92	0.51
2:KH:244:PHE:CG	2:KH:358:GLN:HG3	2.45	0.51
1:KK:267:MET:N	1:KK:369:GLY:O	2.22	0.51
1:KM:292:GLN:HG2	1:KM:298:ASN:ND2	2.25	0.51
1:LG:163:ILE:HD11	1:LG:251:ARG:HE	1.74	0.51
2:LH:254:GLU:HG2	1:LI:98:GLY:HA2	1.92	0.51
1:LK:247:ASN:ND2	2:LL:71:GLU:OE2	2.43	0.51
1:LM:268:MET:HB3	1:LM:300:MET:CG	2.41	0.51
1:LO:32:PRO:O	1:LO:83:GLN:HB3	2.10	0.51
1:MB:424:GLN:NE2	33:2F:121:GLU:OE2	2.42	0.51
2:ME:209:ILE:HG21	2:ME:227:VAL:HG13	1.93	0.51
2:MG:373:ARG:CZ	23:1A:61:GLY:H	2.24	0.51
2:MI:174:SER:HB2	2:MI:207:GLU:CD	2.36	0.51
1:MJ:324:LYS:HA	1:MJ:327:ASP:HB3	1.93	0.51
2:MK:19:ALA:O	2:MK:22:GLU:HG3	2.11	0.51
2:MK:105:ARG:HH11	2:MK:110:ILE:HD13	1.74	0.51
1:N:350:LYS:HD2	1:N:351:SER:N	2.25	0.51
2:NA:9:ILE:HG22	2:NA:146:GLY:HA2	1.92	0.51
2:NE:318:MET:O	2:NE:375:VAL:HA	2.10	0.51
2:NE:345:ASP:OD2	2:NE:346:TRP:N	2.43	0.51
1:NJ:67:ASP:HA	1:NJ:143:THR:HG21	1.93	0.51
1:NJ:282:ARG:NH2	1:NJ:292:GLN:OE1	2.37	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OH:151:LEU:HG	1:OH:155:LEU:HD23	1.92	0.51
1:OL:257:LEU:HD11	1:OL:314:SER:HB3	1.93	0.51
1:PB:198:GLU:HB2	1:PB:266:PHE:CE2	2.46	0.51
2:PC:212:LEU:O	2:PC:216:SER:OG	2.17	0.51
2:PE:195:LEU:HD21	2:PE:428:LEU:HD22	1.93	0.51
2:PE:316:CYS:SG	2:PE:318:MET:HE3	2.50	0.51
1:PF:200:MET:HE3	1:PF:268:MET:SD	2.50	0.51
2:PG:326:LYS:NZ	1:PH:220:PRO:O	2.38	0.51
1:PL:33:THR:O	1:PL:58:ARG:NH1	2.44	0.51
1:PL:211:CYS:HB3	1:PL:220:PRO:HG2	1.93	0.51
1:PL:216:LYS:HB2	1:PL:275:SER:HB2	1.91	0.51
2:PM:295:VAL:HG11	2:PM:377:MET:HB2	1.93	0.51
1:QA:333:VAL:HG12	59:4a:141:VAL:HG12	1.92	0.51
2:QB:138:PHE:HE2	2:QB:235:VAL:HG21	1.75	0.51
1:QC:255:VAL:HG11	2:QD:100:ALA:O	2.10	0.51
2:QD:9:ILE:HD13	2:QD:150:GLY:HA2	1.90	0.51
1:QG:286:VAL:HG11	1:QG:325:GLU:CG	2.41	0.51
2:QH:99:ALA:HA	2:QH:105:ARG:HD3	1.92	0.51
1:RI:207:LEU:HD23	1:RI:225:LEU:HB3	1.92	0.51
2:SA:263:PRO:HD3	1:SB:396:HIS:CE1	2.46	0.51
2:SC:370:LYS:H	41:2c:474:GLN:HE22	1.59	0.51
1:SF:324:LYS:HD3	2:SG:222:PRO:HD2	1.91	0.51
1:SH:276:ARG:NH2	41:2c:346:SER:OG	2.35	0.51
2:SI:241:SER:HA	2:SI:356:ASN:HD22	1.75	0.51
1:SJ:276:ARG:HD2	41:2c:288:ASN:OD1	2.10	0.51
1:TD:330:MET:SD	1:TD:349:ILE:HG21	2.50	0.51
1:TH:332:ASN:HB3	1:TH:336:LYS:NZ	2.26	0.51
2:TK:191:THR:HG21	2:TK:425:LEU:HD13	1.92	0.51
2:UK:241:SER:OG	2:UK:250:VAL:N	2.34	0.51
1:UL:258:VAL:HG22	1:UL:266:PHE:HZ	1.74	0.51
1:V:172:SER:OG	1:V:174:ARG:NH2	2.43	0.51
1:VD:170:ILE:HG13	1:VD:201:CYS:HB3	1.93	0.51
1:VJ:3:GLU:HB2	1:VJ:130:LEU:HA	1.91	0.51
1:VJ:255:VAL:HG11	2:VK:100:ALA:O	2.11	0.51
2:VK:431:ASP:OD1	2:VK:432:TYR:N	2.42	0.51
2:WA:271:SER:H	2:WA:377:MET:HB3	1.75	0.51
2:WG:258:ASN:HD21	1:WH:178:THR:HA	1.76	0.51
3:XB:104:ARG:HH12	3:XB:157:HIS:CD2	2.28	0.51
3:XC:78:MET:HE1	3:XC:89:PHE:CG	2.46	0.51
3:XE:102:ARG:HD2	3:XE:118:ILE:HD12	1.92	0.51
4:XO:229:ASP:OD1	4:XO:230:ASP:N	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:0D:48:ASP:OD1	7:0D:49:HIS:N	2.43	0.51
8:0F:44:GLU:O	8:0F:48:ILE:HG12	2.10	0.51
8:0J:438:ASN:HA	8:0J:441:ARG:HD2	1.92	0.51
9:0L:234:PHE:HZ	9:0L:237:GLN:HB2	1.76	0.51
9:0M:349:ARG:HD3	9:0M:358:GLU:OE2	2.09	0.51
9:0N:42:CYS:SG	9:0N:592:SER:HB3	2.51	0.51
14:0c:50:ASP:OD1	14:0c:50:ASP:N	2.44	0.51
14:0d:23:SER:OG	14:0d:24:ILE:O	2.28	0.51
15:0f:78:MET:O	15:0f:82:HIS:HB2	2.10	0.51
16:0l:315:ARG:NH1	16:0l:317:GLU:OE1	2.44	0.51
20:0t:156:LEU:O	20:0t:189:TRP:NE1	2.38	0.51
20:0u:201:ASP:HB3	23:1F:346:ARG:HH21	1.73	0.51
22:0z:259:LEU:HA	22:0z:262:ILE:HD12	1.91	0.51
23:1B:325:GLU:CG	44:2w:23:ARG:HD2	2.40	0.51
23:1D:38:LYS:O	23:1D:42:GLN:HG3	2.11	0.51
24:1H:590:ASP:OD1	24:1H:591:LYS:N	2.44	0.51
24:1K:96:ARG:HB2	24:1K:184:ASP:HB2	1.93	0.51
24:1K:566:PHE:CE1	24:1K:570:MET:HE3	2.45	0.51
26:1Q:352:ARG:NH1	26:1Q:362:GLN:O	2.43	0.51
31:1r:249:VAL:HG11	22:1x:244:LYS:HD3	1.92	0.51
33:2G:250:GLU:HA	33:2G:253:MET:HG3	1.93	0.51
33:2H:33:TYR:CD2	33:2H:47:HIS:HE1	2.29	0.51
33:2I:168:PRO:HG3	33:2I:240:LEU:HD21	1.91	0.51
41:2h:391:GLU:CD	41:2h:394:ARG:HH22	2.16	0.51
42:2r:400:SER:OG	42:2r:402:MET:SD	2.69	0.51
1:A:281:TYR:HB3	1:M:86:ARG:HG3	1.92	0.51
2:AC:346:TRP:CD1	1:AD:391:ARG:HD3	2.45	0.51
2:AC:377:MET:SD	2:AC:379:ALA:HB2	2.50	0.51
1:AD:198:GLU:HB2	1:AD:266:PHE:HE2	1.75	0.51
1:AD:221:THR:HG22	1:AD:223:GLY:H	1.75	0.51
1:AD:263:LEU:HD21	1:AD:421:GLU:HG3	1.92	0.51
2:AE:396:ASP:OD1	3:XB:53:ASN:ND2	2.43	0.51
1:AF:41:ASP:C	54:3Z:441:LYS:HZ1	2.18	0.51
2:AI:194:LEU:O	2:AI:266:HIS:NE2	2.40	0.51
1:B:35:THR:HG23	1:B:37:GLN:OE1	2.11	0.51
1:B:238:CYS:HB3	1:B:318:ARG:HH11	1.74	0.51
1:BB:318:ARG:HB3	1:BB:357:PRO:HA	1.93	0.51
2:BC:259:LEU:HD21	2:BC:268:VAL:HG11	1.92	0.51
1:BD:190:HIS:HB2	1:BD:414:ASN:HD22	1.76	0.51
1:BD:321:MET:HB3	1:BD:363:MET:HE2	1.92	0.51
1:BJ:58:ARG:NH1	1:CI:280:GLN:OE1	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BJ:253:LEU:HD11	1:BJ:316:LEU:HD11	1.93	0.51
1:BN:256:ASN:HB3	1:BN:350:LYS:HG3	1.92	0.51
2:C:315:CYS:SG	2:C:377:MET:HE1	2.51	0.51
2:CB:64:ARG:NH1	2:CB:129:CYS:SG	2.84	0.51
2:CD:212:LEU:HD21	2:CD:275:VAL:HG11	1.92	0.51
1:CE:1:MET:HG2	2:CF:72:PRO:HG3	1.92	0.51
1:CE:344:TRP:HB3	1:CE:430:VAL:HG12	1.93	0.51
2:CH:237:SER:HA	2:CH:320:ARG:HH11	1.74	0.51
2:CJ:209:ILE:HG21	2:CJ:227:VAL:HA	1.93	0.51
2:D:273:ALA:HB3	2:D:295:VAL:HG23	1.91	0.51
1:DA:166:THR:HG21	1:DA:192:LEU:HD22	1.93	0.51
2:DB:221:ARG:HD3	27:1S:743:ASP:O	2.11	0.51
2:DD:150:GLY:O	2:DD:154:LEU:HD23	2.10	0.51
2:DD:212:LEU:HD21	2:DD:275:VAL:HG21	1.92	0.51
2:DD:261:PRO:CG	2:DD:313:MET:HE2	2.41	0.51
1:DE:3:GLU:HB2	1:DE:127:CYS:SG	2.51	0.51
2:DH:295:VAL:HG12	2:DH:377:MET:HE3	1.92	0.51
1:DI:66:MET:HE1	1:DI:151:LEU:HD22	1.92	0.51
1:DI:287:ALA:HB2	1:DI:329:GLN:HE22	1.76	0.51
2:DJ:122:ILE:HG21	2:DJ:157:LEU:HD21	1.93	0.51
1:DM:253:LEU:HD21	1:DM:316:LEU:HD11	1.93	0.51
1:E:66:MET:HE2	1:E:116:VAL:HG13	1.93	0.51
1:EB:255:VAL:HG23	2:EC:407:TRP:CG	2.46	0.51
1:EF:173:PRO:HD2	1:EF:380:ARG:HH11	1.75	0.51
1:EF:274:THR:OG1	1:EF:279:GLN:NE2	2.44	0.51
1:EH:309:ARG:H	1:EH:372:THR:HG1	1.56	0.51
1:EJ:290:THR:HA	1:EJ:293:MET:HB2	1.92	0.51
1:F:102:ALA:HB2	1:F:403:MET:HE2	1.92	0.51
1:F:167:PHE:CE1	1:F:200:MET:HE3	2.46	0.51
1:FB:289:LEU:HD11	1:FB:363:MET:HG3	1.93	0.51
1:FF:344:TRP:HB3	1:FF:430:VAL:HG12	1.93	0.51
2:FI:262:TYR:OH	1:FJ:391:ARG:O	2.27	0.51
2:FK:138:PHE:HZ	2:FK:235:VAL:HG21	1.75	0.51
2:GA:67:PHE:HB2	2:GA:92:LEU:HD12	1.93	0.51
2:GG:134:GLY:HA2	2:GG:164:LYS:HG2	1.92	0.51
2:GG:228:ASN:OD1	71:GG:501:GTP:N1	2.41	0.51
1:GH:3:GLU:OE2	1:GH:127:CYS:HB3	2.11	0.51
2:GI:406:HIS:HA	2:GI:409:VAL:HG22	1.92	0.51
2:GK:260:VAL:HG23	1:GL:397:TRP:HE1	1.75	0.51
1:H:280:GLN:CD	1:H:280:GLN:H	2.18	0.51
2:HE:212:LEU:HD13	2:HE:300:GLY:HA2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HJ:20:PHE:HB2	1:HJ:233:MET:HE3	1.91	0.51
1:HL:105:HIS:CD2	1:HL:150:LEU:HB2	2.46	0.51
2:IA:219:ILE:HG13	2:IA:222:PRO:HG3	1.93	0.51
2:IC:213:THR:HA	2:IC:217:LEU:HB2	1.93	0.51
2:IE:138:PHE:HE2	2:IE:235:VAL:HG21	1.75	0.51
2:IG:103:TYR:HD2	2:IG:413:MET:HE1	1.75	0.51
1:IH:207:LEU:HD13	1:IH:225:LEU:HB3	1.93	0.51
1:IH:293:MET:HG3	1:IH:367:PHE:HB2	1.93	0.51
2:II:1:MET:N	2:II:3:GLU:OE2	2.39	0.51
2:J:316:CYS:HA	2:J:352:LYS:HB2	1.91	0.51
1:JA:249:ASP:H	1:JA:252:LYS:CB	2.23	0.51
1:JA:252:LYS:HZ3	2:JB:101:ASN:HD22	1.57	0.51
1:JA:318:ARG:HA	1:JA:354:CYS:O	2.10	0.51
2:JB:3:GLU:HA	2:JB:51:THR:HA	1.92	0.51
2:JB:227:VAL:O	2:JB:231:ILE:HG12	2.10	0.51
2:JB:431:ASP:OD1	2:JB:432:TYR:N	2.43	0.51
1:JC:379:ARG:NH2	1:JC:423:GLN:HE21	2.08	0.51
1:JE:279:GLN:NE2	19:0r:154:ASP:OD2	2.43	0.51
1:JK:257:LEU:HD11	1:JK:369:GLY:HA2	1.92	0.51
2:JL:286:LEU:HD13	2:JL:371:VAL:HG23	1.92	0.51
1:JM:385:PHE:CE2	1:JM:412:GLU:HB2	2.45	0.51
2:KB:70:LEU:HD12	2:KB:99:ALA:HB2	1.91	0.51
2:KB:264:ARG:HG2	22:1w:42:TYR:CZ	2.46	0.51
2:KD:76:ASP:OD1	2:KD:79:ARG:NH1	2.44	0.51
1:KE:226:ASN:OD1	69:KE:500:GDP:N1	2.41	0.51
1:KG:185:THR:O	1:KG:189:VAL:HG23	2.10	0.51
1:KG:361:LEU:HD23	1:KG:364:SER:HB3	1.93	0.51
1:KI:256:ASN:HD21	2:KJ:101:ASN:HD22	1.58	0.51
1:KK:244:GLY:HA3	1:KK:354:CYS:HA	1.93	0.51
1:KK:324:LYS:NZ	2:KL:222:PRO:O	2.37	0.51
2:L:64:ARG:NH1	2:L:129:CYS:SG	2.84	0.51
1:LC:60:VAL:HG22	1:MB:281:TYR:HD1	1.76	0.51
1:LC:83:GLN:O	1:MB:281:TYR:OH	2.18	0.51
1:LC:91:ILE:HD13	1:LC:116:VAL:HA	1.93	0.51
2:LD:188:VAL:O	2:LD:191:THR:HG22	2.10	0.51
2:LF:1:MET:N	2:LF:3:GLU:OE2	2.42	0.51
2:LF:328:VAL:HG11	2:LF:355:ILE:HD11	1.93	0.51
1:LG:167:PHE:HE2	1:LG:268:MET:HE1	1.75	0.51
1:LG:261:PRO:HG3	2:LH:406:HIS:ND1	2.25	0.51
1:LG:358:PRO:HB2	1:LG:361:LEU:HD12	1.91	0.51
2:LH:28:HIS:CE1	2:LH:243:ARG:HD2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LJ:264:ARG:HH12	22:0z:144:LYS:HD2	0.70	0.51
1:LK:9:ALA:HA	1:LK:66:MET:O	2.10	0.51
2:LN:68:LEU:HD23	2:LN:93:VAL:HB	1.93	0.51
1:M:318:ARG:O	1:M:363:MET:HA	2.11	0.51
1:MB:381:VAL:HG13	1:MB:415:MET:HE1	1.92	0.51
1:MD:74:ASP:HA	1:MD:77:ARG:HG2	1.92	0.51
1:MF:173:PRO:HD3	1:MF:380:ARG:NH1	2.26	0.51
1:N:200:MET:N	1:N:200:MET:SD	2.84	0.51
1:N:252:LYS:O	1:N:256:ASN:ND2	2.39	0.51
1:NB:242:PHE:HB2	1:NB:354:CYS:SG	2.50	0.51
1:NB:254:ALA:O	1:NB:258:VAL:HG22	2.11	0.51
2:NM:277:SER:OG	2:NM:278:ALA:N	2.43	0.51
2:OA:219:ILE:HD11	2:OA:222:PRO:HB3	1.93	0.51
1:OB:190:HIS:CE1	1:OB:191:GLN:HG2	2.46	0.51
2:OC:25:CYS:SG	2:OC:86:LEU:HD11	2.51	0.51
1:OF:207:LEU:HD22	1:OF:228:LEU:HD22	1.93	0.51
1:OF:389:PHE:HZ	1:OF:405:GLU:HG3	1.75	0.51
1:OL:232:VAL:HG23	1:OL:366:THR:OG1	2.11	0.51
2:OM:11:GLN:HB2	2:OM:74:VAL:HG11	1.91	0.51
2:OM:104:ALA:HB1	2:OM:411:GLU:OE1	2.11	0.51
2:OM:332:ILE:HG22	2:OM:336:LYS:NZ	2.26	0.51
2:PA:257:THR:HG1	1:PB:397:TRP:CG	2.29	0.51
1:PD:184:ASN:OD1	1:PD:398:TYR:OH	2.27	0.51
2:PG:77:GLU:OE2	28:1d:187:TYR:HB3	2.11	0.51
1:QA:246:LEU:HD11	71:QB:501:GTP:H5"	1.91	0.51
2:QD:9:ILE:HD11	2:QD:153:LEU:HD23	1.93	0.51
1:QE:330:MET:SD	1:QE:349:ILE:HG21	2.51	0.51
1:QE:345:ILE:HG23	2:QF:398:MET:HE2	1.92	0.51
1:QK:42:LEU:HB2	28:1b:217:PHE:HD2	1.74	0.51
2:QL:105:ARG:HD3	2:QL:110:ILE:HD13	1.91	0.51
1:RA:117:LEU:HD11	1:RA:154:LYS:HB3	1.92	0.51
2:RL:74:VAL:O	2:RL:78:VAL:HG23	2.11	0.51
2:SA:298:PRO:HA	2:SA:301:MET:HE3	1.92	0.51
1:SB:276:ARG:CZ	41:2b:175:ILE:HD12	2.40	0.51
1:SH:355:ASP:OD2	28:1V:42:THR:OG1	2.20	0.51
1:T:8:GLN:NE2	1:T:65:LEU:HG	2.26	0.51
2:TA:340:THR:HG22	61:3w:154:ILE:HG13	1.93	0.51
1:TB:237:THR:HG22	1:TB:250:LEU:HD21	1.92	0.51
1:TB:251:ARG:NH2	2:TC:105:ARG:HG2	2.26	0.51
2:TC:109:THR:HG23	2:TC:110:ILE:HG12	1.93	0.51
2:TC:122:ILE:HG21	2:TC:157:LEU:HD21	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:TE:31:GLN:HG2	2:TE:37:PRO:HD3	1.93	0.51
1:TF:172:SER:OG	1:TF:205:GLU:OE2	2.21	0.51
1:TF:290:THR:HG21	1:TF:329:GLN:HB3	1.92	0.51
1:TF:313:ALA:HB3	1:TF:349:ILE:HG12	1.92	0.51
2:TG:318:MET:O	2:TG:375:VAL:HA	2.11	0.51
1:TH:347:ASN:ND2	2:TI:178:SER:H	2.09	0.51
2:TI:196:GLU:HG3	2:TI:197:HIS:CD2	2.45	0.51
1:TJ:132:GLY:HA3	1:TJ:163:ILE:HG22	1.92	0.51
2:TK:213:THR:HA	2:TK:217:LEU:HD12	1.91	0.51
1:TL:332:ASN:HA	1:TL:335:ASN:ND2	2.26	0.51
1:U:289:LEU:O	1:U:293:MET:HG2	2.09	0.51
1:U:324:LYS:HD2	2:UA:222:PRO:HD2	1.91	0.51
1:UB:279:GLN:HE22	53:3W:202:LEU:HA	1.75	0.51
1:UD:226:ASN:OD1	69:UD:500:GDP:N1	2.23	0.51
1:UJ:316:LEU:HB2	1:UJ:366:THR:HG22	1.92	0.51
2:VI:174:SER:HB2	2:VI:177:VAL:O	2.10	0.51
2:VM:188:VAL:HG11	2:VM:395:PHE:HB2	1.92	0.51
1:W:289:LEU:HD11	1:W:363:MET:HG2	1.92	0.51
2:WE:139:HIS:O	2:WE:170:THR:HA	2.10	0.51
2:WE:258:ASN:ND2	1:WF:179:VAL:H	2.01	0.51
2:WG:66:LEU:HD13	2:WG:122:ILE:HG12	1.92	0.51
2:WG:109:THR:HA	2:WG:112:LYS:NZ	2.26	0.51
1:WJ:247:ASN:ND2	2:WK:11:GLN:OE1	2.44	0.51
2:WM:335:ILE:HG23	2:WM:341:ILE:HD11	1.92	0.51
3:X:115:LYS:O	3:X:117:PHE:N	2.44	0.51
3:XD:26:ASP:HB2	3:XD:63:ALA:HA	1.91	0.51
4:XQ:233:GLY:O	4:XQ:237:VAL:HG23	2.10	0.51
8:0F:50:GLY:C	8:0F:55:HIS:CD2	2.85	0.51
9:0M:62:ASP:OD1	9:0M:63:LYS:N	2.37	0.51
11:0U:13:TYR:HB2	11:0U:73:LEU:HD23	1.93	0.51
11:0U:146:VAL:HG11	11:0U:185:ILE:HD13	1.91	0.51
16:0l:260:LEU:HD23	16:0l:265:LEU:HG	1.93	0.51
20:0t:157:MET:HB3	20:0t:187:ALA:HA	1.93	0.51
20:0t:233:ASN:OD1	20:0t:234:ASP:N	2.39	0.51
23:1E:38:LYS:O	23:1E:42:GLN:HG3	2.10	0.51
26:1Q:526:ARG:HH21	26:1Q:530:ILE:HD11	1.75	0.51
27:1S:375:ASP:OD1	27:1S:376:VAL:N	2.43	0.51
28:1c:14:ASP:N	28:1c:14:ASP:OD1	2.44	0.51
28:1g:254:LEU:CB	28:1h:19:VAL:CG2	2.88	0.51
29:1l:40:ARG:HB2	29:1l:40:ARG:NH1	2.25	0.51
33:2I:249:CYS:O	33:2I:253:MET:HG3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:2r:30:ARG:HG3	42:2r:33:ARG:HH21	1.75	0.51
49:3P:344:ARG:HG3	49:3P:344:ARG:HH11	1.76	0.51
49:3P:401:MET:HA	49:3P:404:VAL:HG12	1.93	0.51
57:3f:22:ASN:O	57:3f:26:ARG:HG2	2.11	0.51
60:3t:41:SER:HA	60:3t:44:TYR:CD2	2.46	0.51
64:5B:224:LEU:HD21	65:5G:222:GLN:HE22	1.76	0.51
64:5C:89:ALA:HB1	64:5C:93:LYS:NZ	2.26	0.51
1:A:132:GLY:HA3	1:A:163:ILE:O	2.11	0.51
1:A:332:ASN:O	1:A:336:LYS:NZ	2.44	0.51
1:AB:235:GLY:HA3	1:AB:366:THR:HG21	1.92	0.51
2:AE:257:THR:HG21	1:AF:98:GLY:O	2.10	0.51
1:AF:31:ASP:HB2	1:AF:37:GLN:HE22	1.74	0.51
1:AH:2:ARG:HH21	1:AH:240:LEU:HD23	1.75	0.51
2:AK:352:LYS:NZ	1:AL:178:THR:HG22	2.26	0.51
2:AK:420:GLU:OE1	3:XE:109:GLN:NE2	2.43	0.51
1:BB:323:THR:HG21	2:BC:224:TYR:CE1	2.46	0.51
1:BD:247:ASN:OD1	2:BE:11:GLN:NE2	2.44	0.51
1:BL:316:LEU:HD13	1:BL:352:SER:OG	2.11	0.51
1:CE:252:LYS:HE3	2:CF:101:ASN:ND2	2.26	0.51
1:CI:63:ALA:O	1:CI:89:ASN:ND2	2.41	0.51
1:CI:158:GLU:HG3	1:CI:159:TYR:CD2	2.46	0.51
1:CI:333:VAL:O	1:CI:337:ASN:HB2	2.10	0.51
2:D:295:VAL:CG1	2:D:377:MET:HG2	2.41	0.51
2:DB:99:ALA:HA	2:DB:110:ILE:HD11	1.93	0.51
2:DB:205:ASP:OD1	2:DB:303:THR:HA	2.11	0.51
1:DE:20:PHE:CD1	1:DE:233:MET:HB3	2.46	0.51
1:DE:86:ARG:HG3	1:ED:281:TYR:HB3	1.92	0.51
1:DI:139:LEU:HG	1:DI:168:SER:HB2	1.92	0.51
1:DI:172:SER:HB3	1:DI:205:GLU:CD	2.35	0.51
1:DI:293:MET:HG3	1:DI:367:PHE:HB2	1.92	0.51
1:DI:327:ASP:HB3	2:DJ:177:VAL:HG13	1.93	0.51
2:EC:237:SER:HA	2:EC:320:ARG:HD2	1.92	0.51
2:EC:240:ALA:HA	2:EC:243:ARG:HE	1.76	0.51
2:EE:53:PHE:HB3	2:EE:61:HIS:HB3	1.93	0.51
1:EL:99:ASN:HA	1:EL:142:GLY:H	1.75	0.51
1:F:45:GLU:OE2	1:F:46:ARG:NH2	2.31	0.51
2:FC:203:MET:HE3	2:FC:384:ILE:HD11	1.93	0.51
2:FE:166:LYS:HB2	2:FE:199:ASP:H	1.75	0.51
2:FE:170:THR:HG21	2:FE:194:LEU:HD21	1.92	0.51
1:GB:190:HIS:HB2	1:GB:414:ASN:HD22	1.75	0.51
2:GC:324:VAL:HG13	2:GC:327:ASP:H	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GC:339:ARG:NH1	59:4O:168:PRO:HD2	2.24	0.51
1:HD:410:GLU:O	1:HD:414:ASN:ND2	2.44	0.51
2:HG:320:ARG:HD3	2:HG:360:PRO:HG3	1.93	0.51
2:HK:186:ASN:OD1	2:HK:408:TYR:OH	2.28	0.51
1:I:286:VAL:O	1:I:290:THR:HG23	2.10	0.51
2:IC:224:TYR:HA	2:IC:227:VAL:HG22	1.92	0.51
1:IJ:316:LEU:HD23	1:IJ:352:SER:HB2	1.93	0.51
2:IK:194:LEU:O	2:IK:198:THR:HB	2.11	0.51
2:IK:211:ASP:O	2:IK:215:ARG:HG2	2.10	0.51
2:J:72:PRO:HA	2:J:75:VAL:HG22	1.91	0.51
1:JC:385:PHE:HE2	1:JC:412:GLU:HB2	1.75	0.51
1:JI:282:ARG:HH12	1:JI:292:GLN:NE2	2.08	0.51
2:JJ:50:ASN:OD1	2:JJ:64:ARG:NH2	2.44	0.51
2:JJ:268:VAL:HG23	2:JJ:379:ALA:C	2.36	0.51
2:JL:101:ASN:HD22	2:JL:143:GLY:HA2	1.74	0.51
2:JN:167:LEU:HD13	2:JN:200:VAL:HB	1.93	0.51
2:JN:223:SER:OG	2:JN:224:TYR:N	2.44	0.51
2:JN:224:TYR:HA	2:JN:227:VAL:HG22	1.92	0.51
1:KA:207:LEU:HD13	1:KA:225:LEU:HB3	1.93	0.51
2:KB:51:THR:HG21	2:KB:243:ARG:HG2	1.93	0.51
1:KI:384:GLN:O	1:KI:388:MET:HG3	2.10	0.51
2:KL:269:LEU:HD21	2:KL:384:ILE:HG22	1.92	0.51
1:LC:53:GLU:OE2	29:1k:223:SER:HB3	2.11	0.51
2:LF:329:ASN:ND2	1:LG:175:VAL:HG22	2.19	0.51
2:LH:386:GLU:OE2	35:2O:36:HIS:NE2	2.44	0.51
1:M:327:ASP:HB3	2:MA:177:VAL:HG13	1.93	0.51
1:MB:164:MET:N	1:MB:197:ASP:OD2	2.41	0.51
1:MB:170:ILE:HG12	1:MB:201:CYS:HB3	1.91	0.51
2:MC:268:VAL:HG12	2:MC:380:ASN:HB2	1.92	0.51
1:MF:412:GLU:OE1	33:2G:137:LEU:HD21	2.10	0.51
1:MH:167:PHE:HE2	1:MH:268:MET:HE1	1.74	0.51
1:MN:97:ALA:HB2	1:MN:143:THR:HB	1.92	0.51
1:N:342:ILE:HD12	1:N:344:TRP:NE1	2.26	0.51
2:NA:259:LEU:HD21	2:NA:316:CYS:HB2	1.92	0.51
2:NA:319:TYR:HB3	2:NA:323:VAL:HG11	1.91	0.51
1:NB:204:ASN:OD1	69:NB:500:GDP:O2'	2.24	0.51
2:NC:277:SER:OG	2:NC:278:ALA:N	2.43	0.51
2:NE:422:ARG:HE	2:NE:422:ARG:HA	1.75	0.51
1:NF:322:SER:HB3	1:NF:325:GLU:OE2	2.10	0.51
2:NG:313:MET:HG2	2:NG:344:VAL:HG21	1.91	0.51
2:NK:26:LEU:HD12	2:NK:363:VAL:HG12	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OA:166:LYS:HB2	2:OA:199:ASP:H	1.76	0.51
1:OB:11:GLN:HA	1:OB:72:THR:HG21	1.93	0.51
1:OD:180:VAL:HG23	1:OD:184:ASN:HD21	1.76	0.51
2:OE:372:GLN:HG2	41:2o:360:LEU:HD22	1.91	0.51
2:OK:224:TYR:O	2:OK:228:ASN:ND2	2.43	0.51
1:P:215:LEU:HD11	1:P:228:LEU:HD21	1.93	0.51
2:PE:50:ASN:O	2:PE:64:ARG:NH1	2.44	0.51
1:PF:113:ILE:HG13	1:PF:117:LEU:HD23	1.91	0.51
1:PH:392:LYS:HA	58:3m:25:ARG:NH2	2.26	0.51
1:PL:257:LEU:HB3	1:PL:266:PHE:HE2	1.76	0.51
1:QA:200:MET:HG2	1:QA:268:MET:HE2	1.92	0.51
1:QE:268:MET:HB2	1:QE:300:MET:HB3	1.92	0.51
1:QG:292:GLN:HG2	1:QG:298:ASN:ND2	2.26	0.51
2:QH:345:ASP:OD1	2:QH:346:TRP:N	2.44	0.51
1:QK:156:ARG:HD3	1:QK:195:ASN:HB2	1.92	0.51
2:RB:251:ASP:H	2:RB:254:GLU:HG3	1.75	0.51
1:RE:324:LYS:HD3	2:RF:214:ARG:NH2	2.26	0.51
1:RG:262:ARG:HG3	1:RG:262:ARG:HH11	1.75	0.51
1:RG:322:SER:OG	1:RG:325:GLU:OE1	2.29	0.51
2:RL:116:ASP:OD1	2:RL:117:LEU:N	2.44	0.51
2:RL:240:ALA:O	2:RL:356:ASN:ND2	2.43	0.51
2:SA:90:GLU:HB2	2:SA:121:ARG:NE	2.25	0.51
1:SD:189:VAL:O	1:SD:193:VAL:HG23	2.10	0.51
1:SF:85:PHE:HB2	1:SF:90:PHE:HE1	1.76	0.51
1:SJ:20:PHE:HB2	1:SJ:233:MET:CE	2.40	0.51
2:SK:69:ASP:OD1	2:SK:70:LEU:N	2.44	0.51
1:T:207:LEU:HD21	1:T:300:MET:HE3	1.91	0.51
1:TD:2:ARG:HH12	2:TE:73:THR:HG23	1.76	0.51
1:TD:86:ARG:HH21	1:TD:122:LYS:NZ	2.09	0.51
1:TD:198:GLU:HB2	1:TD:266:PHE:CE1	2.40	0.51
1:TF:252:LYS:HG3	2:TG:101:ASN:HB2	1.93	0.51
1:U:255:VAL:HG11	2:UA:100:ALA:O	2.11	0.51
1:UB:68:LEU:HD22	1:UB:108:GLU:HG3	1.92	0.51
1:UB:113:ILE:HG13	1:UB:117:LEU:HD23	1.93	0.51
2:UC:182:VAL:HG22	2:UC:185:TYR:HB2	1.92	0.51
2:UE:174:SER:HB2	2:UE:177:VAL:O	2.11	0.51
2:UG:406:HIS:HA	2:UG:409:VAL:HG22	1.91	0.51
2:UI:324:VAL:HG12	2:UI:326:LYS:H	1.74	0.51
1:UJ:19:LYS:O	1:UJ:22:GLU:HB2	2.10	0.51
1:UJ:247:ASN:H	2:UK:11:GLN:HE21	1.58	0.51
1:V:282:ARG:HH21	1:V:288:GLU:HB3	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VA:53:PHE:HB3	2:VA:61:HIS:HB3	1.91	0.51
1:VB:219:THR:OG1	8:0F:129:LYS:HE2	2.11	0.51
2:VE:147:SER:HB2	2:VE:190:SER:HB3	1.93	0.51
1:VF:150:LEU:O	1:VF:154:LYS:HG2	2.11	0.51
2:VG:204:LEU:HD22	2:VG:231:ILE:HD12	1.91	0.51
1:VH:358:PRO:HG2	1:VH:361:LEU:HB2	1.92	0.51
2:VI:329:ASN:ND2	1:VJ:175:VAL:HA	2.25	0.51
1:VJ:344:TRP:HB3	1:VJ:430:VAL:HG12	1.93	0.51
1:W:152:ILE:HG22	1:W:195:ASN:HB3	1.91	0.51
2:WA:69:ASP:OD1	2:WA:70:LEU:N	2.43	0.51
2:WE:68:LEU:HD23	2:WE:93:VAL:HB	1.92	0.51
2:WE:236:SER:HB2	2:WE:243:ARG:HH22	1.75	0.51
1:WH:2:ARG:HH21	1:WH:240:LEU:HA	1.76	0.51
1:WH:200:MET:HG3	1:WH:268:MET:SD	2.50	0.51
1:WJ:253:LEU:O	1:WJ:257:LEU:HB2	2.10	0.51
1:WL:384:GLN:O	1:WL:388:MET:HG3	2.11	0.51
2:WM:237:SER:HA	2:WM:320:ARG:HH11	1.76	0.51
5:XN:183:SER:OG	5:XN:226:LYS:NZ	2.44	0.51
4:XR:241:ARG:HG3	4:XR:241:ARG:HH11	1.76	0.51
7:0C:358:ARG:HD3	7:0C:362:ASP:HB3	1.92	0.51
7:0D:151:THR:O	7:0D:155:MET:HG2	2.11	0.51
9:0L:88:ALA:N	9:0L:107:HIS:O	2.38	0.51
9:0L:163:ASN:N	9:0L:211:ASP:OD2	2.44	0.51
9:0M:88:ALA:N	9:0M:107:HIS:O	2.34	0.51
9:0N:527:SER:HA	9:0N:552:GLU:HG3	1.93	0.51
9:0O:247:ILE:HD11	9:0O:260:VAL:HB	1.92	0.51
9:0O:307:TYR:CE1	9:0O:318:LEU:HD13	2.40	0.51
20:0u:99:SER:OG	20:0u:239:PHE:O	2.21	0.51
23:1E:247:GLN:HA	23:1E:250:GLU:HG2	1.91	0.51
24:1H:564:ASP:N	24:1H:564:ASP:OD1	2.42	0.51
24:1K:317:GLY:O	24:1K:350:ASN:ND2	2.34	0.51
25:1O:699:ARG:HG3	25:1O:700:LYS:H	1.76	0.51
27:1S:770:LEU:HA	27:1S:773:PHE:HB2	1.93	0.51
22:1y:203:LEU:HA	22:1y:206:ILE:HG12	1.91	0.51
35:2N:187:THR:HG22	35:2N:188:GLY:N	2.25	0.51
40:2Z:10:ARG:HH21	40:2Z:110:ARG:HD3	1.76	0.51
41:2f:449:TYR:O	41:2f:452:VAL:HG12	2.11	0.51
41:2h:386:ILE:HG23	41:2h:389:MET:HE2	1.92	0.51
41:2o:159:SER:HA	41:2o:162:GLU:OE1	2.11	0.51
43:2t:333:THR:HA	43:2t:338:LEU:HG	1.93	0.51
49:3Q:95:LEU:O	49:3Q:96:MET:HE2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:4B:167:PRO:HD2	62:4B:170:LYS:HE3	1.93	0.51
66:5K:125:ASP:OD1	66:5K:126:THR:N	2.44	0.51
1:AB:34:GLY:HA3	1:AB:58:ARG:HG3	1.93	0.51
1:AD:113:ILE:HG13	1:AD:117:LEU:HD23	1.92	0.51
1:AD:117:LEU:HA	1:AD:120:CYS:SG	2.50	0.51
2:AE:180:ALA:HB3	2:AE:183:GLU:HB2	1.93	0.51
1:AF:178:THR:HB	1:AF:181:GLU:HG2	1.92	0.51
1:AH:13:GLY:HA2	1:AH:16:ILE:HG22	1.93	0.51
1:AH:167:PHE:CE2	1:AH:233:MET:HG2	2.45	0.51
1:AJ:318:ARG:HB3	1:AJ:357:PRO:HA	1.92	0.51
1:AJ:404:ASP:OD1	1:AJ:405:GLU:N	2.43	0.51
2:AM:228:ASN:OD1	71:AM:501:GTP:N1	2.43	0.51
1:B:61:PRO:HD3	1:B:84:LEU:HG	1.91	0.51
1:B:371:ASN:OD1	1:B:372:THR:N	2.44	0.51
2:BA:58:ALA:O	24:1H:245:ARG:NH1	2.44	0.51
2:BE:2:ARG:HH11	1:BF:70:PRO:HG2	1.76	0.51
1:BF:235:GLY:HA3	1:BF:366:THR:HG21	1.93	0.51
1:BJ:377:MET:SD	1:BJ:380:ARG:NH2	2.76	0.51
1:CC:314:SER:HA	1:CC:350:LYS:HB3	1.91	0.51
2:CF:209:ILE:HG21	2:CF:227:VAL:HG13	1.93	0.51
1:CM:107:THR:HG21	1:CM:401:GLU:HG3	1.92	0.51
2:D:209:ILE:HG21	2:D:227:VAL:HG13	1.93	0.51
1:DC:45:GLU:OE1	1:DC:46:ARG:HG2	2.11	0.51
1:DC:214:THR:OG1	1:DC:297:LYS:NZ	2.36	0.51
2:DF:1:MET:HE2	1:DG:70:PRO:HG2	1.93	0.51
2:DF:75:VAL:HG21	2:DF:94:SER:HB2	1.92	0.51
2:DJ:69:ASP:OD2	2:DJ:70:LEU:N	2.42	0.51
1:E:179:VAL:HG23	1:E:180:VAL:HG13	1.93	0.51
2:EA:345:ASP:OD1	2:EA:346:TRP:N	2.44	0.51
2:EC:1:MET:N	2:EC:3:GLU:OE2	2.37	0.51
2:EC:288:VAL:CB	2:EC:327:ASP:HB3	2.41	0.51
2:EC:289:ALA:O	2:EC:293:ASN:ND2	2.44	0.51
1:F:310:TYR:HD2	1:F:341:PHE:CE1	2.29	0.51
1:F:405:GLU:O	1:F:409:THR:HG23	2.11	0.51
1:FF:313:ALA:HB1	1:FF:367:PHE:CE1	2.46	0.51
2:FI:293:ASN:O	2:FI:297:GLU:HG2	2.11	0.51
2:FI:357:TYR:HD2	28:4W:170:LYS:HZ1	1.59	0.51
1:FL:77:ARG:HH12	1:FL:90:PHE:HE2	1.59	0.51
1:G:350:LYS:HB3	2:GA:179:THR:O	2.11	0.51
2:GA:297:GLU:HG3	2:GA:299:ALA:H	1.76	0.51
1:GB:175:VAL:HG11	1:GB:208:TYR:HE2	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GD:51:PHE:HB3	1:GD:59:TYR:HB3	1.93	0.51
2:GE:9:ILE:HD13	2:GE:150:GLY:HA2	1.93	0.51
1:GF:213:ARG:HA	1:GF:216:LYS:HD2	1.92	0.51
1:GJ:10:GLY:O	1:GJ:14:ASN:ND2	2.44	0.51
1:GJ:145:SER:HB2	1:GJ:188:SER:OG	2.11	0.51
1:GJ:165:MET:HE3	1:GJ:250:LEU:HD11	1.92	0.51
1:GJ:238:CYS:HB2	1:GJ:318:ARG:NH1	2.26	0.51
1:H:19:LYS:HA	1:H:19:LYS:HE2	1.93	0.51
1:H:105:HIS:CD2	1:H:150:LEU:HB2	2.46	0.51
1:H:362:LYS:HB2	17:0m:114:TYR:CZ	2.46	0.51
1:HD:345:ILE:HG23	1:HD:348:ASN:ND2	2.25	0.51
1:HF:167:PHE:CE1	1:HF:233:MET:HG2	2.46	0.51
1:HF:216:LYS:HE2	1:HF:275:SER:OG	2.11	0.51
1:HF:325:GLU:CD	2:HG:221:ARG:HG3	2.36	0.51
1:HJ:371:ASN:O	1:HJ:374:ILE:HG12	2.11	0.51
1:HL:88:ASP:OD1	1:HL:89:ASN:N	2.44	0.51
2:HM:8:HIS:CD2	2:HM:17:GLY:HA3	2.44	0.51
2:IE:277:SER:O	2:IE:281:ALA:HB2	2.10	0.51
2:IM:291:ILE:O	2:IM:295:VAL:HG23	2.11	0.51
2:J:209:ILE:HG21	2:J:227:VAL:HA	1.93	0.51
2:J:311:LYS:HE2	2:J:344:VAL:HG23	1.92	0.51
1:JA:385:PHE:HE2	1:JA:412:GLU:HB2	1.76	0.51
2:JB:46:ASP:OD1	17:0m:10:ARG:NH1	2.44	0.51
2:JF:18:ASN:OD1	2:JF:19:ALA:N	2.43	0.51
2:JJ:116:ASP:OD1	2:JJ:117:LEU:N	2.41	0.51
1:JK:167:PHE:CG	1:JK:233:MET:HE2	2.45	0.51
2:JN:3:GLU:O	2:JN:133:GLN:N	2.29	0.51
2:KB:326:LYS:NZ	1:KC:220:PRO:HD2	2.25	0.51
1:KC:189:VAL:HG11	1:KC:415:MET:SD	2.51	0.51
2:KD:90:GLU:O	2:KD:91:GLN:HG2	2.10	0.51
1:KE:181:GLU:HB3	1:KE:182:PRO:HD3	1.91	0.51
1:KG:255:VAL:HG23	2:KH:407:TRP:CG	2.46	0.51
1:KI:8:GLN:HG2	1:KI:17:GLY:HA3	1.92	0.51
1:KI:202:ILE:HD12	1:KI:300:MET:HE2	1.93	0.51
1:KK:312:THR:HA	1:KK:348:ASN:HB3	1.92	0.51
2:LH:203:MET:O	2:LH:303:THR:OG1	2.28	0.51
2:LH:340:THR:HG23	2:LH:341:ILE:HG13	1.93	0.51
1:LI:375:GLN:HB2	1:LI:419:VAL:HG13	1.92	0.51
1:LK:235:GLY:HA3	1:LK:366:THR:HG21	1.93	0.51
1:LK:332:ASN:HD21	1:LK:336:LYS:HZ2	1.59	0.51
1:LM:237:THR:HG22	1:LM:250:LEU:HD21	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LN:99:ALA:O	2:LN:105:ARG:HD3	2.10	0.51
2:MA:298:PRO:HB3	2:MA:307:PRO:HD2	1.92	0.51
1:MD:309:ARG:N	1:MD:372:THR:OG1	2.33	0.51
2:MG:414:GLU:HB2	33:2G:44:LEU:HD21	1.92	0.51
1:MH:125:GLU:OE2	5:XP:106:SER:OG	2.28	0.51
1:MH:371:ASN:OD1	1:MH:373:CYS:N	2.38	0.51
1:MJ:279:GLN:HE22	23:1B:338:LEU:HD22	1.76	0.51
1:ML:268:MET:SD	1:ML:368:ILE:HD13	2.51	0.51
2:MM:317:LEU:O	2:MM:318:MET:HE2	2.11	0.51
1:MN:135:LEU:HB3	1:MN:166:THR:HG22	1.92	0.51
1:N:213:ARG:HH12	1:N:297:LYS:HB2	1.76	0.51
1:ND:217:LEU:HB3	1:ND:220:PRO:HD3	1.93	0.51
2:NE:204:LEU:HD22	2:NE:231:ILE:HD12	1.91	0.51
2:NK:291:ILE:O	2:NK:295:VAL:HG23	2.11	0.51
1:O:267:MET:SD	1:O:301:GLN:NE2	2.81	0.51
2:OC:217:LEU:HD21	2:OC:275:VAL:HG22	1.93	0.51
2:OC:335:ILE:HG21	2:OC:351:PHE:HZ	1.76	0.51
1:OD:236:VAL:HG23	1:OD:368:ILE:HD11	1.93	0.51
1:OF:332:ASN:OD1	1:OF:336:LYS:HD3	2.10	0.51
2:OG:175:PRO:HB3	2:OG:390:ARG:CD	2.41	0.51
1:OH:236:VAL:HG13	1:OH:237:THR:HG23	1.93	0.51
2:OM:117:LEU:O	2:OM:121:ARG:HG2	2.10	0.51
2:OM:270:THR:HG23	2:OM:302:LEU:HB3	1.93	0.51
1:P:16:ILE:HD11	69:P:500:GDP:HN1	1.76	0.51
1:PF:118:ASP:O	1:PF:122:LYS:HG2	2.10	0.51
1:PF:268:MET:HE1	1:PF:368:ILE:HG23	1.92	0.51
2:PK:213:THR:HG22	2:PK:217:LEU:HD12	1.92	0.51
2:PK:338:LYS:HZ2	2:PK:341:ILE:HG12	1.76	0.51
1:QC:256:ASN:ND2	1:QC:350:LYS:HG3	2.21	0.51
2:QD:288:VAL:HG21	2:QD:323:VAL:HG23	1.92	0.51
1:QE:67:ASP:HB2	1:QE:73:MET:HE3	1.92	0.51
1:QE:68:LEU:HD12	1:QE:97:ALA:HB2	1.91	0.51
2:QF:1:MET:HB3	2:QF:2:ARG:HD3	1.92	0.51
2:QH:325:PRO:O	2:QH:329:ASN:ND2	2.43	0.51
2:QL:22:GLU:OE2	2:QL:229:ARG:NE	2.44	0.51
1:RA:144:GLY:N	69:RA:500:GDP:O2B	2.30	0.51
2:RD:174:SER:OG	2:RD:177:VAL:O	2.26	0.51
2:RF:237:SER:HA	2:RF:320:ARG:HH11	1.75	0.51
2:RH:326:LYS:HE3	1:RI:220:PRO:HD2	1.92	0.51
2:RJ:402:ARG:HB3	2:RJ:405:VAL:HG11	1.92	0.51
2:RL:196:GLU:HB3	57:3i:122:ARG:NH2	2.20	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:5:VAL:HG23	1:S:62:ARG:HB3	1.92	0.51
1:SB:19:LYS:HE3	1:SB:227:HIS:HB2	1.93	0.51
2:SC:98:ASP:O	2:SC:105:ARG:NH1	2.44	0.51
2:SC:147:SER:HB2	2:SC:190:SER:HB3	1.93	0.51
2:SE:215:ARG:NH1	59:3p:101:GLY:O	2.44	0.51
2:SG:437:ALA:O	1:SH:391:ARG:NH2	2.44	0.51
1:SJ:15:GLN:HG3	1:SJ:226:ASN:ND2	2.26	0.51
1:SJ:19:LYS:HE3	1:SJ:227:HIS:HB2	1.92	0.51
2:TC:203:MET:HE3	2:TC:267:PHE:HB3	1.92	0.51
2:TE:74:VAL:O	2:TE:78:VAL:HG23	2.10	0.51
2:TE:195:LEU:HA	2:TE:266:HIS:CE1	2.46	0.51
1:TF:247:ASN:O	1:TF:252:LYS:NZ	2.40	0.51
1:TJ:66:MET:HG3	1:TJ:116:VAL:HG21	1.92	0.51
1:TL:181:GLU:O	1:TL:185:THR:HG22	2.11	0.51
1:TL:239:CYS:HA	1:TL:354:CYS:SG	2.51	0.51
2:UC:80:THR:HA	53:3W:232:ARG:HB2	1.91	0.51
1:UD:12:CYS:HB2	69:UD:500:GDP:C8	2.46	0.51
2:UG:138:PHE:HE1	2:UG:235:VAL:HG21	1.76	0.51
1:UH:301:GLN:HE21	1:UH:377:MET:HE1	1.75	0.51
1:UJ:68:LEU:HD12	1:UJ:97:ALA:HB2	1.93	0.51
1:UJ:282:ARG:HH22	1:UJ:292:GLN:HB2	1.75	0.51
1:UL:8:GLN:HG2	1:UL:17:GLY:HA3	1.93	0.51
2:VA:101:ASN:ND2	2:VA:143:GLY:HA2	2.25	0.51
1:VD:185:THR:O	1:VD:189:VAL:HG23	2.11	0.51
1:VJ:7:CYS:O	1:VJ:135:LEU:HA	2.11	0.51
1:W:253:LEU:O	1:W:257:LEU:HB2	2.10	0.51
2:WE:248:LEU:HB2	2:WE:355:ILE:H	1.76	0.51
1:WJ:326:VAL:HG11	1:WJ:353:ILE:HD11	1.92	0.51
1:WL:311:LEU:HA	1:WL:342:ILE:HD12	1.91	0.51
5:XP:228:PHE:O	5:XP:232:GLN:HG3	2.10	0.51
4:XQ:134:ILE:HG23	4:XQ:144:VAL:HG13	1.93	0.51
4:XR:121:THR:OG1	4:XR:164:ASP:OD2	2.18	0.51
6:0:26:MET:O	6:0:31:MET:HG3	2.11	0.51
7:0C:349:VAL:HA	17:0m:58:GLN:NE2	2.26	0.51
9:0O:123:LEU:HD23	9:0O:124:ALA:N	2.25	0.51
17:0m:128:GLU:HA	17:0m:131:LYS:NZ	2.26	0.51
19:0r:303:LYS:HE3	19:0r:304:TYR:CE2	2.46	0.51
21:0w:422:ARG:HH21	53:3W:159:TRP:HA	1.76	0.51
21:0v:75:ASP:OD2	21:0v:76:ALA:N	2.44	0.51
23:1E:91:GLN:HG3	45:2z:76:ASN:ND2	2.26	0.51
24:1H:699:ARG:HH21	24:1H:712:MET:HG2	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:1I:156:ASP:OD1	24:1I:157:GLY:N	2.44	0.51
24:1K:207:ASP:N	24:1K:207:ASP:OD1	2.42	0.51
26:1Q:354:TYR:HD2	26:1Q:355:MET:HE2	1.76	0.51
28:1g:251:HIS:HA	28:1h:30:CYS:SG	2.50	0.51
22:1w:135:LEU:HG	22:1w:137:LYS:H	1.76	0.51
33:2G:142:ASP:N	33:2G:146:HIS:O	2.36	0.51
36:2Q:292:GLU:O	36:2Q:296:ILE:HG13	2.10	0.51
41:2e:164:LEU:O	41:2e:168:LEU:HD23	2.11	0.51
41:2o:272:ASP:OD1	41:2o:275:ARG:NH1	2.44	0.51
43:2t:253:ASP:OD2	43:2t:256:ALA:N	2.44	0.51
44:2v:218:ARG:NH1	44:2v:377:GLU:HA	2.26	0.51
44:2v:344:VAL:HG21	44:2v:352:ALA:HB2	1.92	0.51
46:3B:33:GLN:HG3	46:3B:116:SER:HB3	1.93	0.51
49:3P:436:PRO:HG3	49:3P:491:GLU:OE2	2.11	0.51
49:3Q:367:GLU:OE2	52:3U:349:ALA:N	2.38	0.51
57:3g:115:GLU:HA	57:3g:118:ARG:HE	1.75	0.51
61:3w:189:PHE:N	61:3w:193:GLU:OE1	2.40	0.51
67:5P:7:VAL:HG23	67:5P:79:THR:HB	1.92	0.51
1:A:385:PHE:CE2	1:A:412:GLU:HB3	2.42	0.51
1:AD:292:GLN:HG2	1:AD:298:ASN:ND2	2.19	0.51
2:AG:271:SER:HB2	2:AG:301:MET:HA	1.93	0.51
1:AH:16:ILE:CA	1:AH:19:LYS:HE3	2.31	0.51
1:AH:22:GLU:HG2	1:AH:81:TYR:CG	2.46	0.51
2:AI:81:GLY:HA3	54:3a:81:TYR:HE2	1.76	0.51
2:AK:250:VAL:HG21	2:AK:318:MET:HE1	1.92	0.51
1:AL:63:ALA:O	1:AL:89:ASN:ND2	2.43	0.51
2:BC:70:LEU:HD12	2:BC:145:THR:HG22	1.93	0.51
2:BG:388:PHE:HA	2:BG:391:ILE:HG22	1.92	0.51
2:BI:116:ASP:OD1	2:BI:117:LEU:N	2.44	0.51
2:BI:199:ASP:HB3	2:BI:256:GLN:NE2	2.26	0.51
2:BI:365:GLY:HA2	16:0l:805:ARG:CG	2.40	0.51
2:BK:396:ASP:OD2	2:BK:422:ARG:NE	2.37	0.51
2:C:392:ASP:HA	2:C:395:PHE:HB3	1.93	0.51
1:CA:263:LEU:HD21	1:CA:421:GLU:HG3	1.92	0.51
1:CA:303:ALA:HB1	1:CA:373:CYS:SG	2.51	0.51
2:CB:53:PHE:HB3	2:CB:61:HIS:HB3	1.93	0.51
2:CF:53:PHE:HB3	2:CF:61:HIS:HB3	1.93	0.51
1:CI:275:SER:HG	1:CI:278:SER:HG	1.51	0.51
2:CL:211:ASP:HA	2:CL:214:ARG:HB2	1.93	0.51
1:CM:232:VAL:HG11	1:CM:268:MET:SD	2.51	0.51
2:D:265:ILE:HG22	2:D:380:ASN:HD21	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:46:ARG:HH12	2:DB:73:THR:HG22	1.76	0.51
1:DK:267:MET:N	1:DK:369:GLY:O	2.29	0.51
2:DL:5:ILE:HD12	2:DL:125:LEU:HD23	1.93	0.51
1:DM:3:GLU:HB2	1:DM:127:CYS:SG	2.51	0.51
1:DM:45:GLU:C	1:DM:46:ARG:HD2	2.35	0.51
1:E:313:ALA:HB1	1:E:367:PHE:HE1	1.76	0.51
1:EF:334:GLN:HE22	1:EF:347:ASN:HA	1.75	0.51
2:EG:122:ILE:HG21	2:EG:157:LEU:HD21	1.91	0.51
2:EI:175:PRO:HG3	2:EI:390:ARG:NH2	2.26	0.51
2:EI:345:ASP:OD1	2:EI:346:TRP:N	2.44	0.51
2:EK:134:GLY:HA2	2:EK:164:LYS:HG3	1.93	0.51
1:F:151:LEU:HD21	1:F:155:LEU:HD12	1.92	0.51
2:FK:352:LYS:HA	1:FL:177:ASP:O	2.11	0.51
1:FL:163:ILE:HG21	1:FL:250:LEU:HB3	1.93	0.51
2:GE:27:GLU:OE1	2:GE:243:ARG:NH1	2.32	0.51
2:GI:326:LYS:HZ3	1:GJ:220:PRO:N	2.08	0.51
1:GJ:116:VAL:HG21	1:GJ:147:MET:HE1	1.92	0.51
1:GJ:344:TRP:HZ3	2:GK:403:ALA:HB2	1.74	0.51
2:GK:178:SER:HB2	2:GK:183:GLU:OE1	2.11	0.51
1:HF:311:LEU:HD23	1:HF:342:ILE:HD13	1.93	0.51
1:HH:222:PHE:HA	1:HH:225:LEU:HD12	1.92	0.51
2:HI:28:HIS:NE2	2:HI:243:ARG:HD2	2.25	0.51
2:IA:11:GLN:O	2:IA:15:GLN:HG2	2.10	0.51
2:IA:326:LYS:NZ	1:IB:220:PRO:O	2.44	0.51
1:ID:318:ARG:HB3	1:ID:357:PRO:HA	1.93	0.51
2:IE:286:LEU:HD22	2:IE:371:VAL:HG11	1.91	0.51
1:IH:304:ASP:OD2	1:IH:307:HIS:ND1	2.40	0.51
2:IK:319:TYR:CD2	2:IK:375:VAL:HG22	2.46	0.51
2:J:90:GLU:HG3	2:J:91:GLN:H	1.76	0.51
2:JD:3:GLU:HA	2:JD:51:THR:HA	1.93	0.51
2:JD:326:LYS:HD2	1:JE:220:PRO:HD2	1.92	0.51
1:JG:375:GLN:HB3	1:JG:422:TYR:HD2	1.75	0.51
2:JH:21:TRP:CZ2	2:JH:65:CYS:HB3	2.45	0.51
2:JN:296:PHE:HZ	2:JN:317:LEU:HD21	1.75	0.51
1:KC:118:ASP:O	1:KC:122:LYS:HG2	2.10	0.51
1:KE:325:GLU:OE1	2:KF:221:ARG:CZ	2.59	0.51
2:KH:191:THR:HG21	2:KH:425:LEU:HD13	1.92	0.51
2:KH:227:VAL:O	2:KH:231:ILE:HG12	2.11	0.51
2:KJ:5:ILE:HD12	2:KJ:125:LEU:HB3	1.92	0.51
2:KJ:59:GLY:HA3	23:1E:115:LYS:NZ	2.26	0.51
1:KK:51:PHE:HB3	1:KK:59:TYR:HB3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KN:240:ALA:HA	2:KN:243:ARG:HB2	1.93	0.51
2:L:1:MET:N	2:L:3:GLU:OE2	2.43	0.51
1:LA:11:GLN:HA	1:LA:72:THR:HG21	1.93	0.51
1:LC:414:ASN:HA	13:0Y:92:LYS:HZ3	1.76	0.51
2:LF:121:ARG:HD3	2:LF:124:LYS:HZ1	1.74	0.51
2:LH:213:THR:HG23	2:LH:217:LEU:HD23	1.92	0.51
1:LI:272:PRO:HG2	23:1E:162:GLN:NE2	2.25	0.51
1:LI:362:LYS:HG3	1:LI:363:MET:HG2	1.93	0.51
1:LK:10:GLY:HA2	1:LK:143:THR:HG23	1.93	0.51
1:LK:100:ASN:HB3	1:LK:103:LYS:HB3	1.93	0.51
1:LO:270:PHE:CD1	1:LO:273:LEU:HD11	2.45	0.51
1:LO:327:ASP:OD1	1:LO:328:GLU:N	2.44	0.51
2:MA:74:VAL:O	2:MA:78:VAL:HG23	2.10	0.51
2:MA:203:MET:HE2	2:MA:384:ILE:HD12	1.92	0.51
2:MA:271:SER:HA	2:MA:302:LEU:HD12	1.92	0.51
1:MF:152:ILE:HG13	1:MF:164:MET:HE2	1.92	0.51
1:MJ:262:ARG:NH2	1:MJ:414:ASN:OD1	2.42	0.51
1:ML:10:GLY:O	1:ML:14:ASN:ND2	2.43	0.51
1:ML:221:THR:HG22	1:ML:222:PHE:N	2.24	0.51
1:ML:267:MET:CB	1:ML:301:GLN:HG2	2.37	0.51
1:N:199:SER:O	1:N:265:PHE:HA	2.11	0.51
1:NF:251:ARG:NE	2:NG:97:GLU:OE2	2.40	0.51
1:NH:329:GLN:HA	1:NH:332:ASN:ND2	2.26	0.51
2:NK:203:MET:SD	2:NK:384:ILE:HD11	2.51	0.51
1:NL:190:HIS:O	1:NL:194:GLU:HG3	2.10	0.51
2:OE:220:GLU:HB2	2:OE:221:ARG:HD3	1.92	0.51
1:OH:148:GLY:O	1:OH:152:ILE:HG12	2.10	0.51
2:OK:435:VAL:O	1:OL:391:ARG:NH2	2.43	0.51
1:OL:97:ALA:O	1:OL:103:LYS:HD3	2.11	0.51
1:OL:392:LYS:HA	1:OL:395:LEU:HD12	1.92	0.51
1:PD:268:MET:HB2	1:PD:300:MET:HG3	1.92	0.51
2:PI:392:ASP:HB3	2:PI:425:LEU:HD23	1.93	0.51
2:PM:318:MET:O	2:PM:375:VAL:HA	2.11	0.51
1:QE:152:ILE:CD1	1:QE:164:MET:HE2	2.39	0.51
1:QG:344:TRP:CE3	2:QH:401:LYS:HD2	2.46	0.51
1:QI:26:ASP:O	1:QI:359:LYS:NZ	2.37	0.51
1:QK:185:THR:O	1:QK:189:VAL:HG23	2.09	0.51
1:RC:344:TRP:H	1:RC:344:TRP:CD1	2.28	0.51
1:RE:252:LYS:HD3	2:RF:100:ALA:HA	1.93	0.51
2:RF:265:ILE:HG22	2:RF:380:ASN:HD21	1.75	0.51
2:RH:402:ARG:HH21	2:RH:405:VAL:HG11	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RI:8:GLN:HB2	1:RI:65:LEU:HA	1.92	0.51
1:RK:371:ASN:OD1	1:RK:372:THR:N	2.44	0.51
2:RL:7:ILE:O	2:RL:137:VAL:HA	2.10	0.51
1:S:113:ILE:HG13	1:S:117:LEU:HD23	1.91	0.51
1:S:272:PRO:HD3	1:S:364:SER:HA	1.93	0.51
2:SA:205:ASP:OD1	2:SA:303:THR:HA	2.11	0.51
2:SK:195:LEU:HD11	2:SK:264:ARG:HD3	1.93	0.51
2:TA:8:HIS:NE2	2:TA:17:GLY:HA3	2.25	0.51
1:TF:152:ILE:HD13	1:TF:164:MET:HE2	1.92	0.51
1:TF:167:PHE:CZ	1:TF:233:MET:HG2	2.44	0.51
1:TF:178:THR:HB	1:TF:181:GLU:HG3	1.92	0.51
2:TI:11:GLN:HG3	2:TI:74:VAL:HG11	1.93	0.51
2:TI:134:GLY:HA3	2:TI:165:SER:HB3	1.92	0.51
1:TJ:379:ARG:HE	1:TJ:419:VAL:HG21	1.76	0.51
2:TK:329:ASN:ND2	1:TL:208:TYR:HE2	2.09	0.51
1:TL:144:GLY:N	69:TL:500:GDP:O2B	2.35	0.51
1:U:290:THR:HA	1:U:293:MET:HG2	1.93	0.51
2:UA:3:GLU:HB3	2:UA:132:LEU:HA	1.93	0.51
2:UC:195:LEU:HD13	2:UC:428:LEU:HD11	1.93	0.51
1:UF:322:SER:HA	2:UG:223:SER:HB2	1.92	0.51
2:UG:50:ASN:O	2:UG:64:ARG:NH1	2.44	0.51
1:UH:19:LYS:HA	1:UH:22:GLU:OE1	2.11	0.51
1:UH:249:ASP:H	1:UH:252:LYS:HB2	1.75	0.51
2:UK:373:ARG:HG3	2:UK:373:ARG:HH11	1.75	0.51
2:VC:353:CYS:H	1:VD:177:ASP:HB2	1.75	0.51
1:VH:253:LEU:HD11	1:VH:316:LEU:HD11	1.93	0.51
1:VH:333:VAL:HG23	1:VH:337:ASN:HD22	1.76	0.51
2:VI:151:ALA:O	2:VI:154:LEU:N	2.44	0.51
1:VL:324:LYS:NZ	2:VM:210:TYR:HB3	2.26	0.51
2:VM:70:LEU:HD22	2:VM:110:ILE:HG22	1.93	0.51
2:VM:98:ASP:O	2:VM:105:ARG:NH2	2.43	0.51
2:VM:301:MET:HE3	2:VM:303:THR:O	2.11	0.51
1:W:167:PHE:HE2	1:W:200:MET:SD	2.34	0.51
1:WB:375:GLN:O	1:WB:379:ARG:HG2	2.11	0.51
1:WD:272:PRO:HD3	1:WD:364:SER:HA	1.93	0.51
1:WF:159:TYR:HB3	1:WF:162:ARG:HG3	1.92	0.51
2:WI:349:THR:HG21	1:WJ:181:GLU:HB3	1.93	0.51
2:WM:332:ILE:HG23	2:WM:351:PHE:HD2	1.76	0.51
3:XF:75:PHE:CE1	3:XF:171:LEU:HG	2.46	0.51
5:XP:126:ARG:NH1	5:XP:127:VAL:O	2.44	0.51
4:XR:121:THR:HG23	4:XR:124:ARG:H	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:0A:178:ARG:NH2	14:0d:227:MET:SD	2.84	0.51
7:0D:108:LEU:O	7:0D:112:ARG:HG2	2.10	0.51
8:0G:130:ALA:O	8:0G:133:ARG:HG2	2.11	0.51
9:0N:71:VAL:HG12	9:0N:120:GLU:HG3	1.93	0.51
9:0N:323:HIS:CE1	9:0N:344:CYS:HG	2.29	0.51
9:0N:512:ALA:HB3	9:0N:525:CYS:SG	2.51	0.51
9:0O:225:CYS:HB3	9:0O:236:MET:HB2	1.92	0.51
16:0l:476:ASN:ND2	16:0l:479:LEU:HD12	2.25	0.51
20:0u:142:TYR:HE1	20:0u:188:MET:HG2	1.76	0.51
24:1I:523:PHE:HB3	24:1I:526:SER:HB3	1.92	0.51
25:1O:270:LYS:HD3	25:1O:270:LYS:N	2.26	0.51
27:1T:680:PRO:HG2	27:1T:684:THR:HG21	1.93	0.51
27:1T:779:ASP:OD1	27:1T:780:THR:N	2.37	0.51
28:1b:227:VAL:HG12	41:2e:144:MET:HE2	1.93	0.51
22:1x:40:HIS:CE1	22:1x:43:HIS:HA	2.44	0.51
22:1x:238:ASP:O	22:1x:241:ARG:HG3	2.10	0.51
38:2V:147:ALA:O	38:2V:150:ARG:HG2	2.11	0.51
39:2X:103:GLU:OE2	39:2X:107:ARG:NH2	2.43	0.51
46:3B:127:ARG:HH12	46:3B:297:GLY:HA3	1.75	0.51
48:3F:101:ASP:OD1	48:3F:102:ARG:N	2.44	0.51
48:3G:78:SER:O	48:3G:82:ARG:HG2	2.11	0.51
1:A:87:PRO:HD3	1:B:281:TYR:CD1	2.46	0.51
1:A:135:LEU:HG	1:A:137:HIS:HD2	1.76	0.51
2:AA:30:ILE:HG13	2:AA:36:MET:HG2	1.93	0.51
1:AB:186:THR:HG23	1:AB:415:MET:HE2	1.92	0.51
1:AB:203:ASP:HB2	1:AB:301:GLN:NE2	2.26	0.51
2:AC:326:LYS:HG3	1:AD:220:PRO:HD2	1.93	0.51
2:AC:430:LYS:HB3	3:XA:102:ARG:NH2	2.25	0.51
1:AD:63:ALA:O	1:AD:89:ASN:ND2	2.32	0.51
1:AD:201:CYS:HB2	1:AD:301:GLN:HE22	1.76	0.51
2:AE:177:VAL:HG13	2:AE:207:GLU:OE2	2.10	0.51
2:AE:248:LEU:HB2	2:AE:354:GLY:HA2	1.93	0.51
2:AI:127:ASP:OD1	2:AI:128:ASN:N	2.44	0.51
2:AK:79:ARG:O	2:AK:84:ARG:HG2	2.11	0.51
2:AK:406:HIS:HA	2:AK:409:VAL:HG22	1.93	0.51
1:AL:392:LYS:HZ1	3:XE:97:LYS:HD3	1.75	0.51
1:B:45:GLU:OE1	1:B:46:ARG:HG2	2.11	0.51
1:BF:289:LEU:HD11	1:BF:363:MET:HG3	1.93	0.51
2:BG:89:PRO:HG3	2:CF:279:GLU:HG3	1.93	0.51
2:BG:326:LYS:HE3	1:BH:220:PRO:HD2	1.92	0.51
1:BH:140:GLY:HA3	1:BH:181:GLU:OE1	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BJ:190:HIS:HA	1:BJ:193:VAL:HG12	1.93	0.51
2:BM:228:ASN:OD1	71:BM:501:GTP:N1	2.39	0.51
1:BN:232:VAL:HG11	1:BN:268:MET:HE3	1.92	0.51
1:CA:31:ASP:OD2	1:CA:37:GLN:HG3	2.12	0.51
1:CA:62:ARG:NH1	1:CA:127:CYS:SG	2.84	0.51
2:CD:170:THR:HG21	2:CD:194:LEU:HD21	1.93	0.51
2:CF:155:GLU:HG2	2:CF:197:HIS:CE1	2.46	0.51
1:CG:200:MET:HB2	1:CG:268:MET:HE1	1.93	0.51
1:CI:3:GLU:O	1:CI:131:GLN:N	2.41	0.51
2:CL:240:ALA:HA	2:CL:243:ARG:HE	1.75	0.51
1:CM:272:PRO:HD3	1:CM:364:SER:HA	1.93	0.51
2:DB:206:ASN:OD1	71:DB:501:GTP:N2	2.43	0.51
1:E:215:LEU:HB3	1:E:217:LEU:HD23	1.92	0.51
2:EE:188:VAL:HG12	2:EE:421:ALA:HB1	1.92	0.51
1:EF:378:PHE:HB3	1:EF:415:MET:HE1	1.92	0.51
2:EG:296:PHE:CE2	2:EG:335:ILE:HG13	2.45	0.51
1:EL:253:LEU:HD12	1:EL:257:LEU:HD13	1.92	0.51
2:FA:119:LEU:HB3	59:4O:115:HIS:NE2	2.26	0.51
1:FF:316:LEU:HD13	1:FF:352:SER:OG	2.10	0.51
1:FL:236:VAL:HG13	1:FL:237:THR:HG23	1.93	0.51
2:GA:223:SER:OG	2:GA:224:TYR:N	2.42	0.51
2:GA:317:LEU:O	2:GA:318:MET:HE2	2.11	0.51
1:GD:257:LEU:HD13	1:GD:368:ILE:HG21	1.93	0.51
1:GD:304:ASP:HB3	1:GD:307:HIS:ND1	2.26	0.51
2:GI:239:THR:OG1	2:GI:243:ARG:NH1	2.44	0.51
1:GL:267:MET:HG3	1:GL:374:ILE:HD11	1.93	0.51
1:HD:100:ASN:HB3	1:HD:103:LYS:HB3	1.93	0.51
1:HD:345:ILE:HG23	1:HD:348:ASN:HD21	1.76	0.51
2:HE:174:SER:HB2	2:HE:177:VAL:O	2.11	0.51
1:HF:113:ILE:HG13	1:HF:117:LEU:HD23	1.93	0.51
2:HG:205:ASP:OD1	2:HG:303:THR:HA	2.11	0.51
1:HH:113:ILE:HG13	1:HH:117:LEU:HD23	1.92	0.51
2:HI:23:LEU:HA	2:HI:363:VAL:HG11	1.93	0.51
1:IF:46:ARG:HH21	2:IG:72:PRO:HG2	1.76	0.51
2:IG:17:GLY:HA2	2:IG:20:CYS:SG	2.51	0.51
2:IG:333:ALA:O	2:IG:337:THR:HG23	2.11	0.51
1:IH:164:MET:N	1:IH:197:ASP:OD2	2.38	0.51
2:IK:184:PRO:HA	2:IK:391:ILE:HD11	1.93	0.51
2:IK:251:ASP:N	2:IK:254:GLU:HB2	2.26	0.51
1:IL:186:THR:HA	1:IL:415:MET:CE	2.37	0.51
1:IL:238:CYS:HB2	1:IL:318:ARG:HH11	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IM:3:GLU:HA	2:IM:51:THR:HA	1.93	0.51
1:JC:52:ASP:OD2	1:JC:86:ARG:NH2	2.44	0.51
1:JG:3:GLU:O	1:JG:131:GLN:N	2.44	0.51
1:JI:61:PRO:HD3	1:JI:84:LEU:HG	1.92	0.51
2:JL:269:LEU:HD23	2:JL:379:ALA:O	2.11	0.51
2:JN:241:SER:HB3	2:JN:318:MET:HE1	1.92	0.51
2:KB:335:ILE:HG23	2:KB:341:ILE:HD11	1.92	0.51
1:KC:66:MET:SD	1:KC:151:LEU:HD22	2.51	0.51
2:KD:295:VAL:HG21	2:KD:375:VAL:HG13	1.93	0.51
1:KI:163:ILE:HG21	1:KI:250:LEU:HB2	1.92	0.51
2:KJ:116:ASP:N	2:KJ:116:ASP:OD1	2.44	0.51
2:KJ:339:ARG:HD3	18:0p:216:ARG:HH21	1.75	0.51
2:KJ:402:ARG:HH11	2:KJ:402:ARG:HG2	1.76	0.51
2:L:39:ASP:OD2	44:2v:339:GLN:NE2	2.37	0.51
2:LF:215:ARG:HH21	2:LF:300:GLY:HA2	1.76	0.51
2:LH:71:GLU:HB2	2:LH:98:ASP:HB3	1.93	0.51
1:LI:316:LEU:HD13	1:LI:352:SER:OG	2.10	0.51
2:LJ:434:GLU:OE1	22:0z:147:THR:OG1	2.28	0.51
1:LK:377:MET:HG3	1:LK:380:ARG:HH12	1.75	0.51
2:MC:295:VAL:HG21	2:MC:375:VAL:HG13	1.93	0.51
2:ME:295:VAL:HG21	2:ME:375:VAL:HG13	1.92	0.51
2:MK:3:GLU:HB2	2:MK:129:CYS:SG	2.51	0.51
1:ML:11:GLN:NE2	1:ML:15:GLN:OE1	2.44	0.51
1:ML:144:GLY:N	69:ML:500:GDP:O2B	2.34	0.51
1:N:293:MET:HE1	1:N:365:VAL:HG11	1.92	0.51
1:N:333:VAL:O	1:N:337:ASN:HB2	2.10	0.51
1:NF:8:GLN:NE2	1:NF:21:TRP:HE1	2.09	0.51
1:NH:173:PRO:HA	1:NH:176:SER:HB3	1.91	0.51
1:NH:339:SER:HA	60:3s:96:ASN:ND2	2.25	0.51
2:NI:203:MET:HE3	2:NI:267:PHE:HB3	1.93	0.51
1:OJ:274:THR:OG1	1:OJ:282:ARG:NH2	2.44	0.51
2:OK:16:VAL:HG22	2:OK:231:ILE:HD11	1.93	0.51
2:OK:67:PHE:HB2	2:OK:92:LEU:HD12	1.93	0.51
1:OL:317:PHE:HD2	1:OL:321:MET:HE1	1.75	0.51
1:P:291:GLN:O	1:P:295:ASP:HB2	2.11	0.51
1:PD:180:VAL:HG12	1:PD:184:ASN:ND2	2.26	0.51
2:PG:185:TYR:CD1	2:PG:418:PHE:HE1	2.29	0.51
2:PI:268:VAL:HG11	2:PI:378:ILE:HG13	1.92	0.51
1:PJ:20:PHE:O	1:PJ:24:ILE:HG12	2.11	0.51
1:PL:134:GLN:HA	1:PL:165:MET:O	2.12	0.51
1:PL:172:SER:OG	1:PL:380:ARG:NH1	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PM:15:GLN:HA	2:PM:18:ASN:HD22	1.76	0.51
1:QG:371:ASN:OD1	1:QG:372:THR:N	2.43	0.51
1:QI:295:ASP:OD1	1:QI:296:ALA:N	2.44	0.51
1:QK:77:ARG:HH11	1:QK:77:ARG:HG2	1.75	0.51
2:RB:269:LEU:HD11	2:RB:305:CYS:HB3	1.92	0.51
1:RC:276:ARG:NH2	41:2e:393:ASN:O	2.43	0.51
2:RD:269:LEU:HD22	2:RD:303:THR:HG21	1.92	0.51
2:RF:274:PRO:HD2	2:RF:374:ALA:HA	1.92	0.51
2:RL:111:GLY:HA2	2:RL:149:LEU:HD12	1.93	0.51
2:SA:79:ARG:O	2:SA:84:ARG:HG2	2.11	0.51
1:SB:69:GLU:HG2	1:SB:71:GLY:H	1.75	0.51
1:SD:91:ILE:HD11	1:SD:119:VAL:HG21	1.92	0.51
1:SF:274:THR:OG1	1:SF:282:ARG:NH2	2.40	0.51
1:SF:382:GLY:O	1:SF:386:THR:HG23	2.10	0.51
1:SJ:15:GLN:HG3	1:SJ:226:ASN:HD21	1.76	0.51
1:SJ:330:MET:HE3	1:SJ:351:SER:HB2	1.91	0.51
1:TD:121:ARG:NH2	1:TD:158:GLU:OE2	2.44	0.51
1:TD:313:ALA:HB1	1:TD:367:PHE:HE1	1.76	0.51
1:TF:375:GLN:NE2	1:TF:423:GLN:OE1	2.44	0.51
1:TH:151:LEU:O	1:TH:155:LEU:HD23	2.10	0.51
2:TK:312:TYR:CD1	2:TK:341:ILE:HG23	2.46	0.51
1:TL:130:LEU:O	1:TL:162:ARG:NH1	2.33	0.51
2:UA:264:ARG:HH22	2:UA:428:LEU:HD22	1.74	0.51
2:UE:274:PRO:HG2	2:UE:371:VAL:HG11	1.93	0.51
2:UE:326:LYS:HE3	1:UF:219:THR:HA	1.92	0.51
1:UF:153:SER:HA	1:UF:195:ASN:HD22	1.76	0.51
2:UG:116:ASP:OD1	2:UG:117:LEU:N	2.43	0.51
1:UH:267:MET:HE3	1:UH:371:ASN:HB3	1.92	0.51
1:UH:385:PHE:HZ	1:UH:408:PHE:HD2	1.58	0.51
1:UL:67:ASP:OD1	1:UL:68:LEU:N	2.44	0.51
1:VF:336:LYS:NZ	62:4B:244:TYR:O	2.37	0.51
1:VH:172:SER:HB3	1:VH:205:GLU:HG3	1.92	0.51
2:VI:285:GLN:HE22	2:VI:287:SER:HB3	1.75	0.51
2:VK:90:GLU:HG2	2:VK:91:GLN:HG3	1.93	0.51
2:VK:199:ASP:CB	2:VK:256:GLN:HE22	2.23	0.51
1:W:170:ILE:HD13	1:W:201:CYS:HB3	1.93	0.51
2:WC:245:ASP:HA	2:WC:249:ASN:HD21	1.76	0.51
2:WC:252:LEU:HA	2:WC:255:PHE:CE1	2.46	0.51
1:WD:41:ASP:O	1:WD:45:GLU:HG3	2.11	0.51
2:WE:120:ASP:OD2	2:WE:121:ARG:HG2	2.10	0.51
2:WG:19:ALA:O	2:WG:22:GLU:HG3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:WG:326:LYS:NZ	1:WH:220:PRO:HD2	2.25	0.51
1:WH:125:GLU:HG3	3:XD:17:ILE:HD12	1.93	0.51
3:XC:7:GLN:NE2	3:XC:72:LYS:HG2	2.26	0.51
3:XE:115:LYS:CB	3:XE:118:ILE:O	2.53	0.51
4:XQ:26:ALA:HB1	4:XQ:170:GLU:OE2	2.10	0.51
9:0N:330:ILE:HD13	9:0N:342:THR:HG22	1.92	0.51
14:0d:280:LEU:HD12	14:0d:343:PHE:HE1	1.76	0.51
16:0l:293:GLY:HA2	16:0l:351:ARG:NH1	2.26	0.51
22:0z:260:ARG:HH22	31:1s:232:ALA:HB2	1.76	0.51
23:1B:314:ARG:HE	44:2w:409:THR:HG21	1.76	0.51
23:1D:48:ARG:HH12	23:1D:51:ARG:HH21	1.58	0.51
23:1E:216:TYR:CE2	45:2y:391:GLU:HB3	2.45	0.51
24:1I:570:MET:HE1	24:1I:577:LEU:HB3	1.93	0.51
25:1O:564:THR:HG23	25:1O:567:ARG:H	1.76	0.51
27:1S:503:TYR:OH	27:1S:508:GLU:OE1	2.28	0.51
31:1q:242:ILE:HG12	22:1w:250:PRO:HB3	1.92	0.51
33:2F:23:PRO:HG2	33:2F:49:LEU:HB3	1.92	0.51
41:2e:356:VAL:O	41:2e:360:LEU:HD23	2.11	0.51
42:2r:318:PHE:O	42:2r:335:ARG:NH2	2.42	0.51
43:2t:157:LYS:HZ3	43:2t:161:ARG:HG3	1.76	0.51
44:2w:75:PRO:HD2	44:2w:122:GLN:HG3	1.92	0.51
45:2y:235:TYR:HA	45:2y:238:VAL:HG12	1.93	0.51
57:3i:103:GLU:HA	57:3i:106:ASP:HB2	1.93	0.51
66:5K:24:GLY:O	66:5K:28:ILE:HG12	2.11	0.51
66:5L:90:LEU:HD21	66:5L:97:ALA:HA	1.93	0.51
1:A:313:ALA:HB3	1:A:349:ILE:HG12	1.93	0.50
2:AA:141:VAL:HG13	2:AA:170:THR:HG21	1.93	0.50
2:AI:264:ARG:HG3	2:AI:264:ARG:HH11	1.75	0.50
1:AN:152:ILE:CD1	1:AN:164:MET:HE2	2.40	0.50
2:BA:187:CYS:O	2:BA:191:THR:OG1	2.23	0.50
2:BC:326:LYS:HZ2	1:BD:208:TYR:HB3	1.76	0.50
2:BE:156:ARG:HG3	2:BE:156:ARG:HH11	1.75	0.50
2:BG:76:ASP:HB3	16:0k:160:LEU:HD21	1.93	0.50
1:BH:113:ILE:HG13	1:BH:117:LEU:HD23	1.92	0.50
1:BH:238:CYS:HB2	1:BH:318:ARG:HH11	1.76	0.50
1:BH:357:PRO:O	16:0l:781:ARG:NH1	2.44	0.50
1:BJ:74:ASP:OD1	24:1I:226:ILE:HG12	2.11	0.50
1:BJ:275:SER:OG	24:1I:140:GLY:O	2.27	0.50
2:BK:313:MET:HE2	2:BK:382:THR:HG22	1.92	0.50
2:BM:80:THR:HG21	16:0l:431:HIS:HE1	1.76	0.50
2:BM:408:TYR:HB3	2:BM:413:MET:HE2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CD:104:ALA:HB2	2:CD:413:MET:SD	2.52	0.50
2:CD:370:LYS:NZ	26:1Q:246:TYR:HA	2.26	0.50
2:CF:252:LEU:HA	2:CF:255:PHE:CE1	2.46	0.50
2:CF:260:VAL:HB	1:CG:397:TRP:HZ2	1.76	0.50
1:CG:262:ARG:HG3	1:CG:262:ARG:HH11	1.75	0.50
1:CK:262:ARG:HE	1:CK:421:GLU:HG3	1.76	0.50
2:DB:115:VAL:HG23	2:DB:153:LEU:HD22	1.93	0.50
1:DC:385:PHE:CE2	1:DC:412:GLU:HB2	2.45	0.50
2:DD:209:ILE:HG21	2:DD:227:VAL:HA	1.93	0.50
1:DE:271:ALA:HB1	1:DE:292:GLN:HB3	1.92	0.50
2:DH:88:ASN:CB	2:DH:91:GLN:HE21	2.24	0.50
1:DK:83:GLN:O	1:EJ:281:TYR:OH	2.25	0.50
2:DL:26:LEU:HD12	2:DL:363:VAL:HG12	1.93	0.50
1:DM:290:THR:O	1:DM:294:PHE:HD2	1.95	0.50
2:EC:209:ILE:HG21	2:EC:227:VAL:HG13	1.92	0.50
1:EF:171:PRO:HG3	1:EF:181:GLU:HG2	1.92	0.50
1:EH:345:ILE:HG23	2:EI:398:MET:HE3	1.93	0.50
2:EI:195:LEU:HD12	2:EI:266:HIS:HE1	1.77	0.50
1:EJ:77:ARG:NH2	24:1J:469:GLY:HA3	2.26	0.50
2:FC:178:SER:HB2	2:FC:183:GLU:OE1	2.10	0.50
1:FF:245:GLN:O	2:FG:11:GLN:NE2	2.44	0.50
1:FH:41:ASP:O	1:FH:45:GLU:HG3	2.12	0.50
1:FL:268:MET:HE3	1:FL:269:GLY:N	2.26	0.50
2:GA:259:LEU:O	2:GA:380:ASN:ND2	2.44	0.50
2:GA:271:SER:HA	2:GA:302:LEU:HG	1.91	0.50
1:GB:198:GLU:HB2	1:GB:266:PHE:HE2	1.76	0.50
1:GB:377:MET:HG2	1:GB:380:ARG:HH21	1.75	0.50
2:GC:6:CYS:O	2:GC:65:CYS:HA	2.10	0.50
2:GC:82:THR:HG21	38:2U:326:LEU:HB3	1.92	0.50
2:GE:252:LEU:HA	2:GE:255:PHE:CE1	2.46	0.50
1:GH:344:TRP:HZ3	2:GI:403:ALA:HB2	1.75	0.50
2:GI:234:VAL:HG21	2:GI:302:LEU:HD11	1.93	0.50
1:GJ:238:CYS:HB2	1:GJ:318:ARG:HH11	1.76	0.50
2:GK:173:PRO:HG3	2:GK:183:GLU:HG2	1.92	0.50
1:HB:266:PHE:CE1	1:HB:370:ASN:HB2	2.46	0.50
2:HC:201:ALA:HB3	2:HC:267:PHE:CD2	2.46	0.50
2:HC:237:SER:HA	2:HC:320:ARG:HD2	1.92	0.50
2:HE:80:THR:HG21	7:0D:67:TRP:NE1	2.26	0.50
1:HH:217:LEU:HD12	1:HH:220:PRO:HB3	1.93	0.50
1:HH:331:LEU:HD21	2:HI:176:GLN:HB3	1.94	0.50
1:HH:342:ILE:HG22	1:HH:348:ASN:HD21	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HL:309:ARG:N	1:HL:372:THR:OG1	2.38	0.50
1:ID:49:VAL:HG11	1:ID:241:ARG:HG2	1.93	0.50
2:IE:239:THR:HG23	2:IE:243:ARG:HH11	1.76	0.50
1:IF:2:ARG:HH21	2:IG:96:LYS:HD3	1.76	0.50
2:IG:212:LEU:HD21	2:IG:275:VAL:HG21	1.92	0.50
2:IG:217:LEU:HG	2:IG:219:ILE:HG12	1.93	0.50
1:IJ:322:SER:HB2	2:IK:221:ARG:HB3	1.92	0.50
1:IL:403:MET:HG2	1:IL:408:PHE:CZ	2.46	0.50
2:IM:317:LEU:HD21	2:IM:351:PHE:CD2	2.46	0.50
2:J:271:SER:HB2	2:J:301:MET:HA	1.91	0.50
1:JA:255:VAL:HG11	2:JB:100:ALA:O	2.11	0.50
1:JC:213:ARG:HG3	1:JC:213:ARG:HH11	1.77	0.50
1:JI:406:MET:HE1	60:3s:88:TRP:HE3	1.76	0.50
2:JJ:434:GLU:OE2	60:3s:128:ALA:HB3	2.11	0.50
2:JL:26:LEU:HD21	52:3U:237:PHE:CZ	2.45	0.50
1:JM:34:GLY:HA3	1:JM:58:ARG:HG3	1.93	0.50
1:KA:66:MET:HE3	1:KA:116:VAL:HG11	1.93	0.50
2:KB:188:VAL:O	2:KB:191:THR:HG22	2.11	0.50
1:KC:312:THR:HG21	2:KD:404:PHE:HZ	1.77	0.50
2:KD:155:GLU:OE2	31:1q:20:HIS:HB2	2.10	0.50
2:KF:199:ASP:HB3	2:KF:256:GLN:NE2	2.26	0.50
1:KG:156:ARG:NH2	1:KG:197:ASP:OD1	2.44	0.50
2:KN:306:ASP:HB3	2:KN:309:HIS:CD2	2.47	0.50
2:LF:194:LEU:O	2:LF:266:HIS:NE2	2.39	0.50
1:LG:3:GLU:O	1:LG:131:GLN:N	2.35	0.50
2:LH:118:ALA:O	2:LH:122:ILE:HG12	2.11	0.50
2:LJ:311:LYS:N	2:LJ:382:THR:OG1	2.43	0.50
1:LK:332:ASN:HD21	1:LK:336:LYS:NZ	2.09	0.50
1:LO:139:LEU:HD22	1:LO:188:SER:OG	2.11	0.50
1:M:341:PHE:HB3	1:M:348:ASN:OD1	2.11	0.50
2:MA:274:PRO:HG2	2:MA:371:VAL:HG11	1.92	0.50
2:MA:386:GLU:HG3	14:0c:232:PRO:HG2	1.93	0.50
2:ME:53:PHE:HB3	2:ME:61:HIS:HB3	1.92	0.50
2:ME:174:SER:HB2	2:ME:207:GLU:CG	2.41	0.50
1:MH:371:ASN:OD1	1:MH:372:THR:N	2.44	0.50
2:MI:203:MET:HB3	2:MI:303:THR:HB	1.94	0.50
2:NA:275:VAL:HG23	2:NA:368:LEU:HD11	1.91	0.50
2:NC:204:LEU:HD22	2:NC:231:ILE:HD12	1.93	0.50
2:NC:220:GLU:HB2	2:NC:221:ARG:HD3	1.92	0.50
2:NE:59:GLY:N	41:2o:361:GLN:OE1	2.43	0.50
2:NE:191:THR:HG21	2:NE:425:LEU:HD13	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NE:293:ASN:O	2:NE:297:GLU:HG2	2.10	0.50
1:NH:66:MET:HE2	1:NH:147:MET:HE1	1.93	0.50
1:NH:344:TRP:CG	2:NI:401:LYS:HZ1	2.29	0.50
1:NJ:25:SER:HB2	1:NJ:81:TYR:HE2	1.76	0.50
2:NK:318:MET:O	2:NK:375:VAL:HA	2.11	0.50
2:NK:431:ASP:HA	2:NK:434:GLU:HG2	1.94	0.50
2:NM:122:ILE:HD13	2:NM:157:LEU:HD11	1.93	0.50
1:O:388:MET:N	1:O:388:MET:HE2	2.26	0.50
2:OA:104:ALA:O	2:OA:108:TYR:HB2	2.12	0.50
1:OB:150:LEU:O	1:OB:154:LYS:HG2	2.11	0.50
1:OF:61:PRO:HD3	1:OF:84:LEU:HG	1.93	0.50
2:OG:278:ALA:HB3	41:2o:317:LEU:CD2	2.38	0.50
2:OI:91:GLN:NE2	2:OI:125:LEU:HD21	2.26	0.50
1:OL:236:VAL:HG13	1:OL:237:THR:HG23	1.92	0.50
1:P:134:GLN:HA	1:P:165:MET:O	2.11	0.50
1:PH:204:ASN:OD1	69:PH:500:GDP:O2'	2.26	0.50
2:PI:67:PHE:HB2	2:PI:92:LEU:HD12	1.92	0.50
2:Q:212:LEU:HD11	2:Q:275:VAL:HG11	1.93	0.50
1:QC:4:ILE:HB	1:QC:50:TYR:HE1	1.76	0.50
2:QD:3:GLU:HG2	2:QD:64:ARG:CZ	2.41	0.50
2:QD:271:SER:HA	2:QD:302:LEU:HD23	1.91	0.50
1:QG:20:PHE:HA	1:QG:230:ALA:HB1	1.93	0.50
1:QG:297:LYS:NZ	39:2X:4:GLY:H	2.10	0.50
1:QG:321:MET:HE2	1:QG:363:MET:HG3	1.93	0.50
2:QH:217:LEU:HD21	2:QH:368:LEU:HD23	1.91	0.50
1:QI:189:VAL:O	1:QI:193:VAL:HG23	2.11	0.50
1:QK:32:PRO:HG3	1:QK:81:TYR:CE1	2.46	0.50
1:QK:62:ARG:HG3	1:QK:123:GLU:OE2	2.10	0.50
2:QL:191:THR:HG22	2:QL:195:LEU:HD23	1.93	0.50
2:RB:188:VAL:O	2:RB:191:THR:HG22	2.11	0.50
1:RE:359:LYS:HG2	28:1Y:35:VAL:HG23	1.92	0.50
2:RJ:3:GLU:O	2:RJ:133:GLN:N	2.34	0.50
2:RJ:217:LEU:HD21	2:RJ:368:LEU:HD23	1.93	0.50
1:RK:209:ASP:O	1:RK:213:ARG:HG2	2.11	0.50
1:RK:215:LEU:HB3	1:RK:217:LEU:HG	1.93	0.50
2:RL:274:PRO:HB3	2:RL:286:LEU:HD12	1.92	0.50
2:SC:295:VAL:HG21	2:SC:375:VAL:HG13	1.93	0.50
1:SD:330:MET:O	1:SD:334:GLN:HG3	2.11	0.50
1:SF:152:ILE:HD12	1:SF:164:MET:HE2	1.93	0.50
2:SG:21:TRP:CZ2	2:SG:65:CYS:HB3	2.46	0.50
1:SH:165:MET:HG3	1:SH:198:GLU:HG3	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SH:235:GLY:HA3	1:SH:366:THR:HG21	1.93	0.50
2:SK:320:ARG:HH21	2:SK:360:PRO:HA	1.75	0.50
1:TD:342:ILE:HG13	1:TD:345:ILE:HG22	1.94	0.50
1:TF:159:TYR:HB3	1:TF:162:ARG:HG3	1.92	0.50
1:TF:167:PHE:CE2	1:TF:200:MET:HE2	2.46	0.50
2:TI:296:PHE:CZ	2:TI:377:MET:HE1	2.46	0.50
2:UA:170:THR:HB	2:UA:172:TYR:CE2	2.46	0.50
1:UD:324:LYS:NZ	2:UE:210:TYR:HB3	2.26	0.50
2:UE:114:ILE:HD12	2:UE:117:LEU:HD21	1.92	0.50
1:UF:389:PHE:CE1	1:UF:395:LEU:HD11	2.46	0.50
1:UH:2:ARG:N	1:UH:129:CYS:O	2.44	0.50
1:UH:210:ILE:HG21	1:UH:228:LEU:HD21	1.93	0.50
2:UK:310:GLY:HA3	2:UK:383:ALA:HB2	1.92	0.50
2:VA:271:SER:CB	2:VA:301:MET:HA	2.40	0.50
1:VB:41:ASP:H	9:0L:507:GLN:NE2	2.09	0.50
2:VE:90:GLU:OE1	2:WE:280:LYS:NZ	2.42	0.50
2:VG:195:LEU:HD21	2:VG:428:LEU:HD22	1.93	0.50
2:VK:21:TRP:CZ2	2:VK:65:CYS:HB3	2.46	0.50
1:W:392:LYS:HD3	1:W:395:LEU:HD23	1.93	0.50
2:WA:153:LEU:O	2:WA:157:LEU:HD23	2.12	0.50
2:WG:21:TRP:CZ2	2:WG:65:CYS:HB3	2.46	0.50
2:WK:1:MET:HE3	1:WL:70:PRO:HG3	1.93	0.50
2:WK:216:SER:OG	2:WK:275:VAL:O	2.26	0.50
1:WL:293:MET:HE1	1:WL:330:MET:SD	2.50	0.50
4:XM:86:LYS:HZ1	33:2F:54:THR:C	2.19	0.50
6:0:147:ASP:OD1	6:0:150:ARG:NH2	2.44	0.50
9:0N:352:ASN:HD22	9:0N:353:ALA:N	2.10	0.50
16:0l:900:ILE:HD11	16:0l:950:LEU:HD11	1.92	0.50
19:0r:124:TRP:HB2	19:0r:159:THR:HB	1.93	0.50
19:0r:132:VAL:HG13	19:0r:133:ILE:HG23	1.93	0.50
20:0t:125:PHE:CE1	23:1E:336:MET:HA	2.47	0.50
21:0w:52:ASP:OD1	21:0w:53:ARG:N	2.44	0.50
23:1A:111:ALA:HB2	25:1O:6:ALA:HB2	1.92	0.50
25:1O:608:LEU:HA	25:1O:611:CYS:SG	2.50	0.50
28:1g:188:THR:HG21	31:1q:239:LYS:HD3	1.93	0.50
31:1s:12:TYR:O	31:1s:14:GLN:NE2	2.44	0.50
22:1x:57:TYR:O	22:1x:61:THR:HG23	2.12	0.50
41:2e:192:ALA:O	41:2e:193:SER:C	2.54	0.50
49:3Q:491:GLU:O	49:3Q:495:LYS:HG2	2.11	0.50
60:3r:76:MET:HE3	60:3r:76:MET:HA	1.93	0.50
65:5H:72:LEU:O	65:5H:75:GLU:HG2	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:5K:258:ASP:N	66:5K:261:THR:OG1	2.44	0.50
2:AA:251:ASP:H	2:AA:254:GLU:HB2	1.76	0.50
2:AC:167:LEU:HD23	2:AC:200:VAL:HB	1.93	0.50
2:AI:56:THR:HA	2:BI:285:GLN:HE22	1.75	0.50
1:AJ:253:LEU:O	1:AJ:257:LEU:HB3	2.11	0.50
1:AL:170:ILE:N	1:AL:202:ILE:O	2.45	0.50
2:AM:88:ASN:ND2	2:AM:90:GLU:OE2	2.44	0.50
2:AM:298:PRO:HG3	2:AM:308:ARG:NH1	2.26	0.50
1:AN:320:ARG:HH21	54:4Y:247:THR:HG22	1.76	0.50
1:BF:53:GLU:OE2	16:0k:155:ARG:HD3	2.12	0.50
2:BG:317:LEU:O	2:BG:318:MET:HE2	2.11	0.50
2:BI:295:VAL:HG11	2:BI:377:MET:HB2	1.93	0.50
1:BJ:200:MET:HE1	1:BJ:266:PHE:HD1	1.75	0.50
1:BL:255:VAL:HG23	2:BM:407:TRP:CG	2.46	0.50
1:BN:139:LEU:CD1	1:BN:168:SER:HB2	2.42	0.50
2:C:195:LEU:HA	2:C:266:HIS:HE1	1.76	0.50
2:CB:439:SER:HB2	1:CC:390:ARG:HH22	1.76	0.50
1:CE:66:MET:HB3	1:CE:147:MET:HE3	1.93	0.50
1:CK:167:PHE:CE1	1:CK:200:MET:HE3	2.46	0.50
2:CL:167:LEU:HD11	2:CL:252:LEU:HD22	1.92	0.50
1:CM:301:GLN:NE2	1:CM:377:MET:HE3	2.26	0.50
2:D:27:GLU:CD	2:D:243:ARG:HH22	2.18	0.50
2:DB:178:SER:HB2	2:DB:183:GLU:OE2	2.11	0.50
1:EB:2:ARG:HH12	2:EC:73:THR:HG23	1.75	0.50
1:ED:1:MET:SD	2:EE:72:PRO:HG3	2.51	0.50
1:FD:257:LEU:O	1:FD:370:ASN:ND2	2.41	0.50
2:FG:90:GLU:HB2	2:FG:121:ARG:NH1	2.25	0.50
1:FJ:274:THR:HB	1:FJ:282:ARG:HH21	1.76	0.50
2:FK:286:LEU:O	2:FK:373:ARG:NH1	2.38	0.50
1:FL:311:LEU:HA	1:FL:342:ILE:HD11	1.92	0.50
2:GA:315:CYS:SG	2:GA:377:MET:HE1	2.52	0.50
2:GC:11:GLN:HB3	71:GC:501:GTP:O1A	2.11	0.50
2:GG:406:HIS:HA	2:GG:409:VAL:HG22	1.92	0.50
1:GH:309:ARG:NH1	1:GH:339:SER:O	2.44	0.50
2:HA:107:HIS:HD2	2:HA:152:LEU:HD12	1.75	0.50
1:HB:58:ARG:HH22	1:HB:83:GLN:HB3	1.76	0.50
2:HE:251:ASP:H	2:HE:254:GLU:HB3	1.74	0.50
1:HF:340:TYR:CZ	64:5C:91:LYS:HD3	2.46	0.50
1:HH:61:PRO:HD3	1:HH:84:LEU:HG	1.92	0.50
2:HM:307:PRO:HB3	2:HM:312:TYR:CE1	2.47	0.50
1:I:255:VAL:HG23	2:IA:407:TRP:CG	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IE:105:ARG:HB2	2:IE:411:GLU:HG3	1.93	0.50
2:II:213:THR:HG22	2:II:219:ILE:HB	1.91	0.50
1:IJ:344:TRP:H	1:IJ:344:TRP:CD1	2.29	0.50
1:IL:224:ASP:OD1	7:0D:270:VAL:HG23	2.11	0.50
2:IM:317:LEU:HD21	2:IM:351:PHE:HD2	1.75	0.50
2:J:306:ASP:HB3	2:J:309:HIS:ND1	2.26	0.50
1:JA:86:ARG:HG3	1:KA:281:TYR:HB3	1.93	0.50
1:JC:22:GLU:HA	1:JC:81:TYR:CD2	2.46	0.50
2:JD:53:PHE:HB3	2:JD:61:HIS:HB3	1.92	0.50
2:JF:27:GLU:OE2	2:JF:320:ARG:NH2	2.44	0.50
2:JF:335:ILE:HG13	2:JF:341:ILE:HD11	1.92	0.50
1:JI:207:LEU:HB3	1:JI:225:LEU:HG	1.93	0.50
2:JL:26:LEU:HD21	52:3U:237:PHE:HZ	1.76	0.50
2:JL:69:ASP:O	2:JL:94:SER:HA	2.11	0.50
2:K:270:THR:HG22	2:K:378:ILE:HD13	1.93	0.50
2:KD:323:VAL:HG23	2:KD:355:ILE:HG23	1.93	0.50
1:KE:347:ASN:ND2	2:KF:178:SER:O	2.38	0.50
2:KH:402:ARG:HG2	2:KH:402:ARG:HH11	1.75	0.50
1:KK:253:LEU:HD11	1:KK:316:LEU:HD11	1.93	0.50
2:L:76:ASP:OD1	2:L:77:GLU:N	2.44	0.50
2:L:191:THR:HG21	2:L:425:LEU:HB2	1.92	0.50
1:LA:36:TYR:OH	1:LA:40:SER:O	2.29	0.50
2:LB:318:MET:O	2:LB:375:VAL:HA	2.11	0.50
1:LC:187:LEU:HA	1:LC:190:HIS:CE1	2.47	0.50
2:LD:254:GLU:OE2	1:LE:99:ASN:HB2	2.12	0.50
2:LF:188:VAL:HG13	2:LF:425:LEU:HD22	1.93	0.50
2:LH:304:LYS:HD3	35:2O:54:GLN:CD	2.36	0.50
2:LL:76:ASP:OD1	2:LL:77:GLU:N	2.44	0.50
2:LL:207:GLU:OE2	35:2O:130:PHE:HB2	2.11	0.50
1:MB:61:PRO:HD3	1:MB:84:LEU:HG	1.92	0.50
1:MB:324:LYS:HD2	2:MC:222:PRO:HD2	1.93	0.50
2:MG:188:VAL:O	2:MG:191:THR:HG22	2.11	0.50
2:MG:212:LEU:HD21	2:MG:275:VAL:HG11	1.92	0.50
2:MI:352:LYS:HA	1:MJ:177:ASP:C	2.35	0.50
1:MJ:304:ASP:HB3	33:2H:198:ARG:HG2	1.92	0.50
2:MM:398:MET:HE2	2:MM:404:PHE:HD2	1.75	0.50
1:N:54:SER:OG	41:2n:165:ARG:NH1	2.36	0.50
1:N:289:LEU:HD11	1:N:363:MET:HG3	1.94	0.50
1:ND:35:THR:HG23	1:ND:37:GLN:OE1	2.12	0.50
1:NF:190:HIS:CE1	1:NF:191:GLN:HG2	2.46	0.50
1:NF:331:LEU:HB2	2:NG:177:VAL:HB	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NG:329:ASN:OD1	1:NH:175:VAL:HA	2.11	0.50
1:NH:163:ILE:HG21	1:NH:250:LEU:HB3	1.92	0.50
1:NH:309:ARG:NH1	1:NH:426:GLN:O	2.37	0.50
2:NI:212:LEU:HD21	2:NI:275:VAL:HG11	1.92	0.50
2:NI:286:LEU:O	2:NI:373:ARG:NH1	2.44	0.50
1:NJ:322:SER:HB2	2:NK:221:ARG:HB3	1.92	0.50
2:NM:223:SER:OG	2:NM:224:TYR:N	2.43	0.50
2:OA:14:CYS:O	2:OA:18:ASN:ND2	2.44	0.50
2:OA:91:GLN:H	2:OA:121:ARG:HD2	1.76	0.50
2:OA:205:ASP:OD1	2:OA:303:THR:HA	2.11	0.50
1:OB:20:PHE:HB2	1:OB:233:MET:HE3	1.92	0.50
1:OB:256:ASN:ND2	2:OC:101:ASN:HD22	2.10	0.50
1:OF:355:ASP:OD2	1:OF:356:ILE:N	2.44	0.50
1:OJ:113:ILE:HG12	1:OJ:150:LEU:HD22	1.92	0.50
2:OK:392:ASP:OD2	2:OK:422:ARG:NH2	2.44	0.50
2:OM:90:GLU:OE2	2:OM:121:ARG:NH2	2.43	0.50
2:OM:268:VAL:HG21	2:OM:378:ILE:HG23	1.94	0.50
2:PE:33:ASP:OD1	2:PE:34:GLY:N	2.44	0.50
1:PF:156:ARG:NH1	1:PF:197:ASP:OD1	2.41	0.50
2:PG:60:LYS:HD3	41:2h:194:ARG:HH21	1.77	0.50
1:PH:236:VAL:HG23	1:PH:237:THR:HG23	1.93	0.50
2:PI:90:GLU:C	2:PI:92:LEU:H	2.18	0.50
2:PI:137:VAL:HG21	2:PI:154:LEU:HD11	1.93	0.50
1:QC:207:LEU:HB3	1:QC:225:LEU:HG	1.92	0.50
2:QH:248:LEU:HB2	2:QH:355:ILE:H	1.76	0.50
2:RD:388:PHE:HA	2:RD:391:ILE:HG22	1.93	0.50
1:RE:247:ASN:ND2	2:RF:73:THR:OG1	2.44	0.50
2:RF:123:ARG:CZ	59:3p:118:GLU:OE2	2.59	0.50
2:RH:258:ASN:HD22	1:RI:179:VAL:H	1.59	0.50
2:RL:274:PRO:HG2	2:RL:371:VAL:HG21	1.93	0.50
1:S:232:VAL:HG11	1:S:268:MET:SD	2.51	0.50
1:SB:247:ASN:H	2:SC:11:GLN:NE2	2.09	0.50
1:SD:125:GLU:OE2	61:3w:228:ARG:HB2	2.11	0.50
1:SF:2:ARG:HB3	1:SF:3:GLU:OE1	2.11	0.50
2:SG:58:ALA:HB2	21:0w:221:LYS:HD2	1.93	0.50
1:SJ:362:LYS:NZ	41:2c:273:GLU:OE2	2.44	0.50
1:TH:378:PHE:HB3	1:TH:415:MET:HE1	1.94	0.50
2:TI:286:LEU:O	2:TI:373:ARG:NH1	2.37	0.50
2:TK:122:ILE:HG21	2:TK:157:LEU:HD21	1.93	0.50
1:TL:4:ILE:HG22	1:TL:49:VAL:HG22	1.93	0.50
1:U:100:ASN:HB3	1:U:103:LYS:HB3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UF:180:VAL:O	1:UF:184:ASN:ND2	2.44	0.50
1:UF:268:MET:HE1	1:UF:368:ILE:HG23	1.94	0.50
1:UH:109:GLY:O	1:UH:113:ILE:HB	2.10	0.50
1:UL:332:ASN:HB3	1:UL:336:LYS:NZ	2.25	0.50
2:VC:369:ALA:HA	8:0G:418:GLN:HE22	1.77	0.50
1:VD:66:MET:HE2	1:VD:147:MET:HG2	1.93	0.50
1:VD:150:LEU:HD21	1:VD:154:LYS:HE2	1.93	0.50
1:VH:61:PRO:HD3	1:VH:84:LEU:HG	1.93	0.50
2:VI:127:ASP:OD1	2:VI:128:ASN:N	2.44	0.50
2:WA:258:ASN:HB2	1:WB:179:VAL:HG22	1.93	0.50
1:WB:190:HIS:HA	1:WB:193:VAL:HG12	1.93	0.50
2:WC:21:TRP:CZ2	2:WC:65:CYS:HB3	2.46	0.50
2:WC:236:SER:HB2	2:WC:243:ARG:HH22	1.75	0.50
2:WC:402:ARG:NH1	2:WC:415:GLU:OE2	2.45	0.50
1:WF:50:TYR:HE2	1:WF:237:THR:HG21	1.77	0.50
1:WH:330:MET:HG2	1:WH:349:ILE:HG21	1.92	0.50
2:WI:311:LYS:H	2:WI:382:THR:HG22	1.77	0.50
2:WK:133:GLN:HE22	2:WK:251:ASP:CG	2.19	0.50
1:WL:267:MET:HG3	1:WL:374:ILE:HD11	1.92	0.50
2:WM:271:SER:CB	2:WM:301:MET:HA	2.41	0.50
3:XA:75:PHE:HB2	3:XA:168:SER:O	2.12	0.50
3:XD:174:GLU:O	3:XD:182:LYS:NZ	2.34	0.50
4:XQ:200:ILE:HD12	4:XQ:243:ILE:HD11	1.93	0.50
8:0I:186:GLN:O	8:0I:190:GLU:HG3	2.11	0.50
9:0N:537:VAL:HG13	21:0w:82:GLU:OE1	2.11	0.50
10:0R:309:ARG:HH21	10:0R:310:MET:CE	2.20	0.50
10:0S:257:GLN:O	10:0S:260:GLN:N	2.44	0.50
10:0S:272:ALA:O	10:0S:275:GLN:HG2	2.10	0.50
16:0k:41:ILE:O	16:0k:96:VAL:N	2.44	0.50
19:0r:191:GLN:O	19:0r:194:MET:HB2	2.10	0.50
24:1I:166:LYS:HB3	24:1I:169:GLN:HG3	1.93	0.50
28:1c:4:LEU:C	41:2i:358:ARG:HH12	2.20	0.50
33:2I:136:ARG:HG3	33:2I:136:ARG:HH11	1.75	0.50
41:2i:445:ALA:HB1	41:2i:449:TYR:CZ	2.47	0.50
44:2w:194:ARG:HA	44:2w:213:MET:HE2	1.93	0.50
57:3i:141:LYS:HA	57:3i:144:LEU:HD12	1.94	0.50
65:5G:94:THR:HA	65:5G:97:TYR:HB3	1.93	0.50
66:5K:249:LEU:HB3	66:5K:250:TRP:CE3	2.46	0.50
2:AA:247:ALA:HB3	2:AA:355:ILE:HB	1.92	0.50
2:AC:181:VAL:HG23	2:AC:182:VAL:HG23	1.93	0.50
1:AF:389:PHE:CZ	1:AF:405:GLU:HG3	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AG:173:PRO:HG3	2:AG:183:GLU:HG2	1.92	0.50
2:AG:402:ARG:NH2	3:XC:52:SER:O	2.39	0.50
1:AH:164:MET:HB3	1:AH:197:ASP:H	1.76	0.50
2:AI:298:PRO:CG	2:AI:308:ARG:HH12	2.24	0.50
1:BD:178:THR:HB	1:BD:181:GLU:CD	2.36	0.50
1:BD:252:LYS:O	1:BD:256:ASN:ND2	2.34	0.50
1:BH:403:MET:HG3	1:BH:407:GLU:OE2	2.11	0.50
1:BN:17:GLY:HA2	1:BN:20:PHE:HB3	1.92	0.50
1:CA:244:GLY:H	1:CA:247:ASN:HD21	1.58	0.50
2:CF:175:PRO:HB3	2:CF:390:ARG:NE	2.27	0.50
1:CG:156:ARG:HH22	1:CG:197:ASP:CG	2.19	0.50
1:CI:20:PHE:HB2	1:CI:233:MET:CE	2.40	0.50
1:CI:35:THR:OG1	1:CI:37:GLN:NE2	2.44	0.50
1:CK:337:ASN:HB3	1:CK:340:TYR:CD1	2.47	0.50
1:DI:83:GLN:O	1:EH:281:TYR:OH	2.17	0.50
2:DJ:195:LEU:HD13	2:DJ:267:PHE:HE2	1.76	0.50
2:DL:264:ARG:HG3	2:DL:264:ARG:HH11	1.76	0.50
1:EB:97:ALA:HA	1:EB:103:LYS:HD2	1.94	0.50
2:EC:326:LYS:HE2	1:ED:208:TYR:CD1	2.46	0.50
1:EF:333:VAL:HA	1:EF:336:LYS:HG2	1.92	0.50
1:EJ:185:THR:O	1:EJ:189:VAL:HG13	2.11	0.50
1:EJ:255:VAL:HG11	2:EK:100:ALA:O	2.11	0.50
2:EK:88:ASN:HB3	2:EK:91:GLN:HG2	1.93	0.50
2:EK:251:ASP:H	2:EK:254:GLU:CB	2.23	0.50
1:G:249:ASP:OD1	1:G:252:LYS:HB2	2.11	0.50
2:GA:79:ARG:HH12	2:GA:92:LEU:HG	1.76	0.50
2:GA:308:ARG:NH1	59:4O:116:GLU:OE1	2.44	0.50
1:GD:65:LEU:HD12	1:GD:90:PHE:CE2	2.46	0.50
1:GD:292:GLN:O	1:GD:298:ASN:ND2	2.39	0.50
2:GI:215:ARG:CZ	59:4P:1:MET:HA	2.41	0.50
1:HB:229:VAL:O	1:HB:233:MET:HG3	2.12	0.50
1:HH:260:PHE:HB2	1:HH:263:LEU:HD23	1.93	0.50
2:HK:215:ARG:HH22	2:HK:299:ALA:HB1	1.75	0.50
1:I:182:PRO:HB2	1:I:385:PHE:HD1	1.76	0.50
1:I:248:SER:HB2	1:I:252:LYS:HG3	1.94	0.50
2:IA:237:SER:HA	2:IA:320:ARG:HD2	1.92	0.50
1:IB:215:LEU:HD21	1:IB:273:LEU:HD12	1.94	0.50
1:ID:42:LEU:HD23	1:ID:356:ILE:HD11	1.93	0.50
1:ID:249:ASP:O	1:ID:252:LYS:HB2	2.11	0.50
2:IE:70:LEU:HD12	2:IE:99:ALA:HB2	1.92	0.50
2:IG:174:SER:HB2	2:IG:177:VAL:O	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:II:185:TYR:HE2	2:II:404:PHE:HB2	1.76	0.50
1:IJ:252:LYS:O	1:IJ:256:ASN:ND2	2.43	0.50
2:IM:152:LEU:O	2:IM:156:ARG:HG2	2.12	0.50
2:IM:205:ASP:OD2	2:IM:304:LYS:N	2.37	0.50
2:JJ:329:ASN:HD22	1:JK:175:VAL:HG13	1.76	0.50
1:JK:139:LEU:HA	1:JK:145:SER:HB3	1.93	0.50
1:JK:305:PRO:HB3	1:JK:310:TYR:HE1	1.75	0.50
2:JL:422:ARG:HB3	60:3t:23:HIS:CE1	2.44	0.50
2:JN:5:ILE:HD12	2:JN:64:ARG:HB3	1.93	0.50
2:KB:240:ALA:HB1	2:KB:356:ASN:HD22	1.77	0.50
1:KE:74:ASP:OD2	15:0f:256:THR:OG1	2.19	0.50
1:KG:143:THR:O	1:KG:147:MET:HB2	2.10	0.50
2:KH:248:LEU:HB2	2:KH:355:ILE:H	1.77	0.50
2:KH:269:LEU:HD22	2:KH:303:THR:HB	1.93	0.50
2:L:285:GLN:HE21	23:1D:60:MET:HB2	1.77	0.50
2:LB:9:ILE:HD13	2:LB:150:GLY:HA2	1.93	0.50
1:LC:289:LEU:HD11	1:LC:363:MET:HG3	1.93	0.50
2:LD:152:LEU:O	2:LD:156:ARG:HG2	2.11	0.50
2:LD:268:VAL:HG21	2:LD:378:ILE:HG22	1.92	0.50
2:LD:306:ASP:OD1	2:LD:308:ARG:NH2	2.33	0.50
1:LG:67:ASP:HA	1:LG:143:THR:HG21	1.93	0.50
1:LI:36:TYR:OH	1:LI:40:SER:O	2.30	0.50
1:LM:91:ILE:HD11	1:LM:119:VAL:HG21	1.93	0.50
1:LM:324:LYS:HD3	2:LN:222:PRO:HD2	1.92	0.50
2:LN:218:ASP:HB2	2:LN:280:LYS:NZ	2.27	0.50
1:LO:355:ASP:OD2	29:1m:190:THR:N	2.44	0.50
1:M:232:VAL:HG21	1:M:300:MET:SD	2.50	0.50
2:MA:431:ASP:HA	2:MA:434:GLU:HG3	1.93	0.50
2:MG:326:LYS:HZ2	1:MH:212:PHE:HE2	1.57	0.50
2:MI:262:TYR:OH	1:MJ:391:ARG:O	2.23	0.50
1:MJ:22:GLU:HB3	24:1I:17:MET:HE1	1.93	0.50
1:MJ:421:GLU:OE2	33:2H:118:PHE:HE2	1.94	0.50
2:MK:252:LEU:O	2:MK:256:GLN:HG3	2.11	0.50
2:MM:72:PRO:O	2:MM:76:ASP:HB2	2.10	0.50
1:MN:340:TYR:OH	13:0a:77:GLY:O	2.17	0.50
2:NC:58:ALA:O	41:2o:412:ARG:NH2	2.44	0.50
1:NF:20:PHE:CD1	1:NF:233:MET:HE2	2.47	0.50
1:NH:252:LYS:HD3	2:NI:100:ALA:HA	1.93	0.50
2:NI:316:CYS:HA	2:NI:352:LYS:O	2.12	0.50
2:NK:205:ASP:O	2:NK:209:ILE:HG12	2.12	0.50
2:NK:326:LYS:HD3	1:NL:208:TYR:CD1	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NL:286:VAL:HG11	1:NL:325:GLU:HB3	1.93	0.50
2:NM:139:HIS:O	2:NM:170:THR:HA	2.10	0.50
1:O:269:GLY:N	1:O:367:PHE:O	2.44	0.50
1:OB:185:THR:HB	1:OB:381:VAL:HG11	1.94	0.50
1:OB:344:TRP:H	1:OB:344:TRP:CD1	2.29	0.50
2:OE:21:TRP:CZ2	2:OE:65:CYS:HB3	2.46	0.50
1:OH:385:PHE:CE2	1:OH:412:GLU:HB3	2.46	0.50
2:OI:392:ASP:OD1	2:OI:393:HIS:N	2.44	0.50
1:OJ:34:GLY:HA3	1:OJ:58:ARG:HG3	1.93	0.50
2:OK:93:VAL:HG11	2:OK:117:LEU:HD11	1.93	0.50
2:OM:267:PHE:HB2	2:OM:384:ILE:HD12	1.91	0.50
1:P:318:ARG:NH1	1:P:358:PRO:HG3	2.26	0.50
2:PE:6:CYS:O	2:PE:65:CYS:HA	2.11	0.50
2:PE:247:ALA:O	1:PF:11:GLN:NE2	2.44	0.50
1:PH:293:MET:HG3	1:PH:367:PHE:HB2	1.93	0.50
2:PK:253:THR:O	2:PK:257:THR:HG22	2.11	0.50
2:PM:232:GLY:HA2	2:PM:235:VAL:HG22	1.94	0.50
2:PM:395:PHE:CD2	2:PM:422:ARG:HD3	2.46	0.50
2:Q:265:ILE:HG23	2:Q:432:TYR:CZ	2.46	0.50
1:QA:331:LEU:HD21	2:QB:176:GLN:HG2	1.93	0.50
2:QD:187:CYS:O	2:QD:191:THR:HG23	2.11	0.50
2:QH:122:ILE:HG21	2:QH:157:LEU:HD21	1.92	0.50
2:QH:189:LEU:HD13	2:QH:413:MET:HE1	1.93	0.50
1:QI:42:LEU:HD13	1:QI:356:ILE:HD11	1.93	0.50
2:QL:11:GLN:N	71:QL:501:GTP:O2B	2.34	0.50
2:R:231:ILE:O	2:R:235:VAL:HG23	2.11	0.50
2:R:261:PRO:HB3	1:RA:394:PHE:CE2	2.46	0.50
2:RB:98:ASP:O	2:RB:105:ARG:NH1	2.44	0.50
2:RD:9:ILE:HG22	2:RD:146:GLY:HA2	1.94	0.50
2:RF:199:ASP:HB3	2:RF:256:GLN:NE2	2.26	0.50
1:RG:399:THR:OG1	58:3m:104:TYR:OH	2.22	0.50
1:SB:208:TYR:CE1	1:SB:225:LEU:HD11	2.46	0.50
1:SD:221:THR:HG23	1:SD:223:GLY:H	1.76	0.50
2:SG:260:VAL:HB	1:SH:397:TRP:HZ2	1.75	0.50
1:SJ:12:CYS:SG	1:SJ:138:SER:HB3	2.52	0.50
1:TB:155:LEU:HA	1:TB:158:GLU:HG2	1.93	0.50
1:TB:200:MET:HE2	1:TB:268:MET:SD	2.52	0.50
2:TC:185:TYR:HE2	2:TC:404:PHE:HB2	1.76	0.50
1:TD:190:HIS:CE1	1:TD:191:GLN:HG2	2.46	0.50
1:TD:403:MET:HG2	1:TD:408:PHE:CE1	2.46	0.50
1:TF:186:THR:HA	1:TF:415:MET:HE1	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:TG:157:LEU:HB3	2:TG:166:LYS:HZ1	1.76	0.50
2:TI:225:THR:HG22	2:TI:229:ARG:HE	1.76	0.50
2:UC:211:ASP:OD2	2:UC:304:LYS:NZ	2.45	0.50
1:UF:362:LYS:NZ	8:0J:436:GLU:HG2	2.27	0.50
1:UH:10:GLY:HA2	1:UH:143:THR:HG23	1.93	0.50
1:UH:107:THR:OG1	1:UH:401:GLU:OE2	2.19	0.50
2:UI:123:ARG:NH1	2:UI:127:ASP:OD2	2.44	0.50
1:UJ:189:VAL:HG11	1:UJ:415:MET:SD	2.52	0.50
1:VB:97:ALA:HB2	1:VB:143:THR:HB	1.92	0.50
2:VC:212:LEU:HD21	2:VC:275:VAL:HG21	1.92	0.50
1:VH:372:THR:HB	1:VH:426:GLN:HB2	1.94	0.50
2:VK:49:PHE:HD2	2:VK:53:PHE:HB2	1.76	0.50
2:VK:107:HIS:CD2	2:VK:152:LEU:HB2	2.46	0.50
2:WA:178:SER:HB2	2:WA:183:GLU:OE1	2.11	0.50
1:WF:215:LEU:HD11	1:WF:228:LEU:HD21	1.92	0.50
1:WH:46:ARG:HH12	2:WI:73:THR:HA	1.76	0.50
1:WL:247:ASN:H	2:WM:11:GLN:NE2	2.08	0.50
1:WL:260:PHE:HB2	1:WL:263:LEU:HG	1.94	0.50
3:XF:102:ARG:HH21	3:XF:118:ILE:HD11	1.75	0.50
4:XM:210:ARG:HA	4:XM:215:ILE:HD11	1.93	0.50
4:XQ:88:ARG:HD2	4:XQ:89:PRO:HD2	1.93	0.50
4:XR:185:LEU:HD22	4:XR:192:ILE:HD11	1.93	0.50
6:0:66:VAL:HG22	6:0:125:VAL:HG21	1.93	0.50
9:0M:506:ARG:NH2	9:0M:528:ASP:OD2	2.44	0.50
9:0N:47:ASP:HB2	9:0N:52:GLU:HG2	1.94	0.50
10:0R:103:ARG:HG3	10:0R:107:LYS:HE2	1.93	0.50
13:0Y:182:ILE:O	13:0Y:186:ILE:HD12	2.10	0.50
16:0l:784:VAL:HA	16:0l:811:LEU:HD21	1.94	0.50
23:1A:73:GLU:OE1	40:2Z:306:LEU:HA	2.11	0.50
23:1A:137:ASP:HB3	23:1A:140:ALA:HB2	1.94	0.50
28:1h:157:ALA:HA	28:1h:162:LEU:HD21	1.92	0.50
31:1q:35:ARG:CZ	31:1q:78:ARG:HG3	2.41	0.50
31:1s:77:PHE:HD2	35:2O:136:MET:HG2	1.77	0.50
31:1s:251:GLU:OE2	41:2e:214:GLY:HA3	2.11	0.50
35:2O:29:LEU:HD21	39:2X:163:ARG:HB2	1.94	0.50
44:2v:308:ARG:HH11	44:2v:386:SER:HB2	1.76	0.50
49:3Q:425:ARG:NE	49:3Q:453:GLU:OE2	2.36	0.50
66:5L:11:MET:SD	66:5L:11:MET:N	2.84	0.50
66:5L:31:LYS:HZ1	66:5L:226:THR:HB	1.75	0.50
1:A:268:MET:HB2	1:A:300:MET:HG2	1.93	0.50
1:A:324:LYS:NZ	2:AA:221:ARG:HA	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:109:GLY:HA2	1:AB:147:MET:HE3	1.93	0.50
1:AD:337:ASN:ND2	5:XN:108:GLY:O	2.37	0.50
2:AE:238:LEU:HD21	2:AE:378:ILE:HG13	1.93	0.50
1:AH:186:THR:HG22	1:AH:411:ALA:HB1	1.93	0.50
2:AI:97:GLU:CD	2:AI:105:ARG:HH12	2.20	0.50
1:AJ:350:LYS:HD2	2:AK:180:ALA:HA	1.92	0.50
1:B:132:GLY:HA3	1:B:163:ILE:O	2.12	0.50
2:BC:252:LEU:HD13	2:BC:255:PHE:HE2	1.76	0.50
2:BE:230:LEU:HD22	2:BE:367:ASP:OD2	2.11	0.50
1:BH:165:MET:HE3	1:BH:167:PHE:CE1	2.47	0.50
1:BN:291:GLN:O	1:BN:295:ASP:HB2	2.12	0.50
1:CA:234:SER:O	1:CA:241:ARG:NH2	2.45	0.50
1:CA:301:GLN:NE2	1:CA:377:MET:SD	2.85	0.50
2:CD:276:VAL:HB	2:CD:280:LYS:HB2	1.92	0.50
1:CE:186:THR:HG21	1:CE:385:PHE:CG	2.46	0.50
1:CE:237:THR:HG22	1:CE:250:LEU:HD21	1.92	0.50
1:CG:344:TRP:HB3	1:CG:430:VAL:HG12	1.93	0.50
2:CH:71:GLU:OE1	2:CH:73:THR:HG22	2.09	0.50
1:CI:406:MET:O	1:CI:409:THR:OG1	2.28	0.50
1:CM:87:PRO:HD3	1:DM:281:TYR:CD2	2.46	0.50
2:D:26:LEU:HD12	2:D:363:VAL:HG12	1.94	0.50
2:DB:270:THR:HG22	2:DB:378:ILE:HG12	1.93	0.50
1:DE:130:LEU:HB2	1:DE:162:ARG:HD3	1.92	0.50
2:DL:191:THR:HG21	2:DL:425:LEU:HD13	1.92	0.50
1:E:406:MET:O	1:E:410:GLU:HG2	2.11	0.50
2:EC:274:PRO:HD3	2:EC:374:ALA:HA	1.94	0.50
2:EC:318:MET:HB2	2:EC:376:CYS:HB3	1.92	0.50
1:ED:376:GLU:O	1:ED:380:ARG:HG2	2.10	0.50
2:EE:155:GLU:HA	2:EE:197:HIS:CD2	2.47	0.50
2:EI:272:TYR:HD1	2:EI:376:CYS:HB2	1.76	0.50
1:EJ:128:ASP:OD1	1:EJ:129:CYS:N	2.42	0.50
2:EK:273:ALA:HB3	2:EK:295:VAL:HG23	1.92	0.50
2:EK:298:PRO:HG3	2:EK:308:ARG:HH12	1.77	0.50
1:EL:186:THR:HG22	1:EL:415:MET:SD	2.51	0.50
1:FB:2:ARG:HH12	2:FC:72:PRO:HD2	1.74	0.50
2:FE:345:ASP:OD2	2:FE:346:TRP:N	2.44	0.50
2:FG:215:ARG:NH1	63:4I:254:ASP:OD2	2.44	0.50
2:FK:123:ARG:NH2	2:GK:297:GLU:OE1	2.44	0.50
1:G:207:LEU:HD13	1:G:225:LEU:HB3	1.93	0.50
1:GB:178:THR:HB	1:GB:181:GLU:HG3	1.93	0.50
2:GC:217:LEU:HD21	2:GC:275:VAL:HG22	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GF:326:VAL:HG21	1:GF:353:ILE:HD11	1.92	0.50
2:GG:178:SER:HB2	2:GG:183:GLU:OE1	2.11	0.50
2:GK:150:GLY:O	2:GK:154:LEU:HD23	2.11	0.50
2:GK:325:PRO:HA	2:GK:328:VAL:HB	1.94	0.50
1:GL:311:LEU:HA	1:GL:342:ILE:HD12	1.92	0.50
1:HB:175:VAL:O	1:HB:175:VAL:HG12	2.12	0.50
2:HE:394:LYS:O	2:HE:398:MET:HG2	2.11	0.50
2:HI:323:VAL:HG13	2:HI:355:ILE:HG23	1.93	0.50
2:HK:157:LEU:O	2:HK:161:TYR:HB2	2.11	0.50
1:HL:135:LEU:HD12	1:HL:136:SER:H	1.75	0.50
2:HM:194:LEU:O	2:HM:198:THR:OG1	2.28	0.50
1:I:376:GLU:OE1	1:I:380:ARG:HD3	2.10	0.50
2:IA:174:SER:HB2	2:IA:207:GLU:OE1	2.11	0.50
2:IC:279:GLU:OE2	38:2U:220:LYS:HE2	2.11	0.50
1:ID:170:ILE:N	1:ID:202:ILE:O	2.43	0.50
2:IE:185:TYR:HE2	2:IE:404:PHE:HB2	1.74	0.50
1:IL:267:MET:O	1:IL:268:MET:HE2	2.11	0.50
2:IM:240:ALA:HA	2:IM:243:ARG:HB3	1.94	0.50
2:J:136:MET:HA	2:J:136:MET:HE3	1.94	0.50
2:JB:269:LEU:HD22	2:JB:303:THR:HG21	1.93	0.50
2:JB:359:PRO:HD2	15:0f:69:GLY:HA2	1.93	0.50
2:JH:150:GLY:O	2:JH:154:LEU:HD23	2.11	0.50
1:JI:406:MET:HA	1:JI:406:MET:HE2	1.93	0.50
2:JJ:142:GLY:HA3	2:JJ:183:GLU:HG3	1.94	0.50
2:JJ:195:LEU:HD22	2:JJ:428:LEU:HD11	1.92	0.50
2:JL:139:HIS:O	2:JL:170:THR:HA	2.11	0.50
2:JL:291:ILE:O	2:JL:295:VAL:HG23	2.11	0.50
2:JN:135:PHE:CE2	2:JN:157:LEU:HD12	2.47	0.50
1:KC:200:MET:HG3	1:KC:268:MET:CE	2.41	0.50
1:KC:213:ARG:HG3	1:KC:297:LYS:HE3	1.93	0.50
1:KE:323:THR:HA	1:KE:326:VAL:HG22	1.93	0.50
1:KI:252:LYS:HG3	2:KJ:101:ASN:HB2	1.93	0.50
2:L:318:MET:O	2:L:375:VAL:HA	2.12	0.50
1:LA:2:ARG:N	1:LA:131:GLN:HB2	2.26	0.50
2:LF:7:ILE:HG21	2:LF:153:LEU:HD21	1.92	0.50
1:LG:404:ASP:OD1	1:LG:405:GLU:N	2.44	0.50
2:LJ:387:VAL:HA	2:LJ:390:ARG:HG2	1.93	0.50
2:LL:139:HIS:O	2:LL:170:THR:HA	2.12	0.50
1:LO:133:PHE:HB2	1:LO:164:MET:HG3	1.93	0.50
1:LO:161:ASP:OD2	13:0a:67:HIS:ND1	2.42	0.50
1:MD:423:GLN:O	1:MD:426:GLN:HB3	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ME:67:PHE:HB2	2:ME:92:LEU:HD12	1.94	0.50
1:MJ:139:LEU:HD22	1:MJ:188:SER:HB3	1.92	0.50
1:N:237:THR:O	1:N:241:ARG:HG3	2.11	0.50
1:N:267:MET:HE2	1:N:267:MET:HA	1.94	0.50
2:NA:269:LEU:HD21	2:NA:301:MET:SD	2.52	0.50
1:ND:49:VAL:HG11	1:ND:241:ARG:HG2	1.93	0.50
1:NF:165:MET:HE3	1:NF:167:PHE:HE1	1.76	0.50
1:NH:189:VAL:HG11	1:NH:415:MET:SD	2.51	0.50
2:NK:194:LEU:O	2:NK:266:HIS:NE2	2.40	0.50
2:OE:388:PHE:HA	2:OE:391:ILE:HG22	1.92	0.50
1:OF:144:GLY:N	69:OF:500:GDP:O2B	2.41	0.50
2:OG:274:PRO:HD3	2:OG:291:ILE:HD11	1.93	0.50
1:OH:172:SER:OG	1:OH:205:GLU:OE1	2.28	0.50
2:OI:218:ASP:HB2	2:OI:280:LYS:HZ1	1.76	0.50
1:OL:304:ASP:HB3	1:OL:306:ARG:NH1	2.26	0.50
2:PA:271:SER:OG	2:PA:377:MET:HB3	2.12	0.50
2:PA:328:VAL:HG11	2:PA:353:CYS:SG	2.52	0.50
1:PB:377:MET:HE2	1:PB:380:ARG:HH21	1.77	0.50
2:PC:207:GLU:HA	2:PC:210:TYR:HB2	1.93	0.50
1:PD:379:ARG:HH21	1:PD:423:GLN:HE21	1.59	0.50
1:PH:189:VAL:HA	1:PH:192:LEU:HD12	1.93	0.50
1:PJ:61:PRO:HD3	1:PJ:84:LEU:HG	1.93	0.50
2:PK:224:TYR:O	2:PK:228:ASN:ND2	2.44	0.50
1:QA:171:PRO:HG3	1:QA:181:GLU:HB2	1.92	0.50
2:QD:271:SER:OG	2:QD:295:VAL:HG13	2.11	0.50
1:QE:20:PHE:HZ	1:QE:50:TYR:CE1	2.30	0.50
2:QF:405:VAL:O	2:QF:409:VAL:HG23	2.11	0.50
2:QH:167:LEU:HD11	2:QH:255:PHE:HZ	1.76	0.50
1:QI:36:TYR:CE2	31:1s:243:ILE:HD11	2.45	0.50
1:QI:67:ASP:HA	1:QI:143:THR:HG21	1.94	0.50
1:QK:51:PHE:O	1:QK:62:ARG:NH2	2.44	0.50
2:R:434:GLU:OE1	57:3f:97:LYS:NZ	2.42	0.50
1:RE:256:ASN:ND2	1:RE:350:LYS:HD3	2.26	0.50
1:RK:207:LEU:HB3	1:RK:225:LEU:HD22	1.94	0.50
1:RK:270:PHE:HD1	1:RK:366:THR:HG22	1.76	0.50
2:RL:258:ASN:HB3	2:RL:352:LYS:HG3	1.93	0.50
1:S:139:LEU:HG	1:S:168:SER:HB2	1.94	0.50
1:S:268:MET:HB2	1:S:367:PHE:O	2.10	0.50
1:SH:68:LEU:HD12	1:SH:97:ALA:HB2	1.92	0.50
1:T:340:TYR:CE2	61:3w:127:GLY:O	2.65	0.50
1:TF:213:ARG:HD3	1:TF:297:LYS:HE3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TF:334:GLN:NE2	1:TF:349:ILE:H	2.09	0.50
2:TG:99:ALA:HA	2:TG:110:ILE:HD11	1.94	0.50
1:TH:178:THR:HG22	1:TH:180:VAL:H	1.76	0.50
1:TJ:222:PHE:CD1	1:TJ:225:LEU:HD12	2.46	0.50
2:TK:388:PHE:HD1	2:TK:428:LEU:HD21	1.77	0.50
1:TL:371:ASN:ND2	1:TL:373:CYS:SG	2.85	0.50
1:UB:135:LEU:HG	1:UB:137:HIS:HD2	1.76	0.50
1:UB:167:PHE:CZ	1:UB:233:MET:HG2	2.47	0.50
1:UB:272:PRO:HD3	1:UB:364:SER:HA	1.92	0.50
1:UB:316:LEU:HD13	1:UB:352:SER:OG	2.12	0.50
2:UE:215:ARG:NH2	2:UE:300:GLY:HA2	2.27	0.50
2:UI:122:ILE:HG21	2:UI:157:LEU:HD11	1.93	0.50
2:UI:241:SER:HB2	2:UI:250:VAL:H	1.75	0.50
1:UL:309:ARG:N	1:UL:372:THR:OG1	2.44	0.50
2:VC:395:PHE:HD2	2:VC:422:ARG:HD3	1.76	0.50
1:VH:200:MET:HB2	1:VH:268:MET:SD	2.50	0.50
2:VK:137:VAL:HG21	2:VK:154:LEU:HD21	1.93	0.50
2:VK:275:VAL:HG23	2:VK:368:LEU:HD11	1.92	0.50
1:VL:344:TRP:CG	2:VM:401:LYS:HZ3	2.29	0.50
1:VL:346:PRO:HG3	2:VM:397:LEU:HD23	1.92	0.50
1:W:290:THR:HB	1:W:329:GLN:NE2	2.27	0.50
2:WA:288:VAL:HB	2:WA:327:ASP:HB3	1.92	0.50
2:WG:116:ASP:OD1	2:WG:117:LEU:N	2.45	0.50
2:WG:139:HIS:O	2:WG:170:THR:HA	2.11	0.50
2:WG:221:ARG:HH22	9:0M:415:ARG:HH12	1.59	0.50
2:WG:227:VAL:O	2:WG:231:ILE:HG12	2.11	0.50
2:WI:9:ILE:HD13	2:WI:150:GLY:HA2	1.92	0.50
2:WK:237:SER:HA	2:WK:320:ARG:HD2	1.93	0.50
1:WL:113:ILE:HG12	1:WL:150:LEU:HD22	1.94	0.50
3:XB:177:LEU:HD23	3:XB:182:LYS:HG2	1.92	0.50
4:XQ:223:GLN:O	4:XQ:227:VAL:HG22	2.11	0.50
4:XR:244:LEU:HD13	4:XR:247:LEU:HD12	1.93	0.50
6:0A:137:ASP:OD1	6:0A:138:ARG:N	2.45	0.50
8:0G:403:ARG:HH12	8:0G:406:ARG:HH21	1.58	0.50
9:0M:224:ILE:HD12	9:0M:234:PHE:HE1	1.76	0.50
9:0N:371:CYS:SG	9:0N:428:VAL:HG13	2.52	0.50
12:0W:99:VAL:HG22	12:0W:152:VAL:HG22	1.93	0.50
14:0d:303:GLU:O	14:0d:307:MET:HG2	2.11	0.50
24:1J:245:ARG:HH11	24:1J:245:ARG:HG3	1.75	0.50
30:1o:84:HIS:O	30:1o:88:VAL:HG12	2.10	0.50
22:1y:135:LEU:HG	22:1y:137:LYS:H	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:2F:99:ALA:HB3	33:2F:102:VAL:HG22	1.93	0.50
33:2G:255:ASP:HB3	33:2G:259:ARG:HB2	1.93	0.50
35:2O:39:ARG:HG2	35:2O:54:GLN:HG3	1.93	0.50
36:2Q:184:ARG:NH2	36:2Q:200:GLU:OE2	2.43	0.50
41:2k:190:TRP:HE1	41:2k:194:ARG:NE	2.06	0.50
46:3B:32:ALA:HB1	46:3B:113:MET:HA	1.94	0.50
48:3H:103:LEU:HD23	48:3H:106:LEU:HD12	1.93	0.50
49:3Q:17:ASN:OD1	49:3Q:20:GLU:HB2	2.12	0.50
28:4V:234:HIS:ND1	28:4V:263:ASP:OD1	2.32	0.50
65:5G:185:ALA:HB2	66:5K:269:LEU:HD12	1.92	0.50
2:AA:6:CYS:O	2:AA:65:CYS:HA	2.12	0.50
1:AB:9:ALA:HA	1:AB:66:MET:HG3	1.94	0.50
2:AC:21:TRP:CZ2	2:AC:65:CYS:HB3	2.47	0.50
1:AD:163:ILE:HG21	1:AD:250:LEU:HB3	1.91	0.50
1:AD:272:PRO:HD3	1:AD:364:SER:HA	1.94	0.50
2:AI:269:LEU:HD21	2:AI:305:CYS:HB3	1.93	0.50
1:BF:347:ASN:O	2:BG:181:VAL:HG12	2.12	0.50
2:BI:101:ASN:OD1	2:BI:143:GLY:HA2	2.11	0.50
1:BL:156:ARG:NH1	1:BL:160:PRO:O	2.44	0.50
2:C:194:LEU:O	2:C:266:HIS:NE2	2.35	0.50
2:CD:7:ILE:HB	2:CD:137:VAL:HG12	1.93	0.50
2:CD:233:GLN:NE2	2:CD:361:THR:O	2.44	0.50
2:CD:291:ILE:O	2:CD:295:VAL:HG23	2.11	0.50
1:CE:350:LYS:HE2	1:CE:350:LYS:HA	1.93	0.50
2:CF:326:LYS:HG3	1:CG:220:PRO:HD2	1.93	0.50
1:CI:334:GLN:HE22	1:CI:348:ASN:HB2	1.77	0.50
2:CJ:9:ILE:HG22	2:CJ:146:GLY:HA2	1.92	0.50
2:CL:301:MET:HE1	2:CL:307:PRO:CG	2.41	0.50
1:CM:152:ILE:HD11	1:CM:164:MET:HB3	1.93	0.50
1:DA:11:GLN:HA	1:DA:72:THR:HG21	1.94	0.50
1:DC:185:THR:O	1:DC:189:VAL:HG13	2.11	0.50
2:DD:260:VAL:HB	1:DE:397:TRP:HZ2	1.76	0.50
1:DE:271:ALA:HB2	1:DE:298:ASN:HD21	1.76	0.50
1:DG:22:GLU:HA	1:DG:81:TYR:HD2	1.77	0.50
2:DH:2:ARG:HG2	2:DH:133:GLN:HE22	1.76	0.50
2:DH:352:LYS:HD2	2:DH:353:CYS:H	1.77	0.50
2:EC:291:ILE:O	2:EC:295:VAL:HG23	2.10	0.50
1:ED:19:LYS:O	1:ED:22:GLU:HB2	2.12	0.50
2:EG:314:SER:OG	2:EG:352:LYS:NZ	2.41	0.50
1:EH:55:SER:HG	1:FH:284:LEU:H	1.59	0.50
2:EI:11:GLN:N	71:EI:501:GTP:O1A	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EL:387:GLY:HA2	1:EL:390:ARG:NH2	2.27	0.50
2:FA:174:SER:HB2	2:FA:207:GLU:HB2	1.93	0.50
2:FA:390:ARG:NH1	2:FA:390:ARG:HB2	2.26	0.50
1:FB:87:PRO:HA	1:FB:90:PHE:HD2	1.77	0.50
2:FE:224:TYR:HA	2:FE:227:VAL:HG22	1.92	0.50
2:FG:195:LEU:HD22	2:FG:428:LEU:HD22	1.93	0.50
2:FG:241:SER:HB2	2:FG:250:VAL:H	1.76	0.50
2:FG:338:LYS:HZ3	63:4I:248:GLY:N	2.05	0.50
2:FK:169:TYR:HB3	2:FK:204:LEU:HD12	1.94	0.50
1:G:350:LYS:HE3	2:GA:181:VAL:HG13	1.94	0.50
2:GC:295:VAL:HG21	2:GC:375:VAL:HG13	1.92	0.50
2:GC:396:ASP:OD2	2:GC:422:ARG:NH2	2.43	0.50
1:GD:193:VAL:HG12	1:GD:265:PHE:HE1	1.75	0.50
1:GD:290:THR:HG21	1:GD:329:GLN:HB3	1.94	0.50
2:GE:236:SER:HB2	2:GE:243:ARG:HH22	1.77	0.50
2:GE:392:ASP:N	2:GE:392:ASP:OD1	2.44	0.50
1:GF:256:ASN:O	1:GF:312:THR:HG21	2.12	0.50
2:GG:135:PHE:HB2	2:GG:166:LYS:HG2	1.93	0.50
1:GH:324:LYS:HD3	2:GI:222:PRO:HD2	1.94	0.50
1:GJ:77:ARG:HB2	1:GJ:77:ARG:NH1	2.27	0.50
1:HB:203:ASP:O	1:HB:207:LEU:HD23	2.11	0.50
1:HB:267:MET:HE1	1:HB:371:ASN:OD1	2.11	0.50
1:HD:252:LYS:HA	2:HE:100:ALA:HB1	1.93	0.50
1:HF:304:ASP:OD2	1:HF:306:ARG:NH2	2.44	0.50
2:HG:67:PHE:HB2	2:HG:92:LEU:HD12	1.93	0.50
2:HI:291:ILE:O	2:HI:295:VAL:HG23	2.12	0.50
1:HJ:253:LEU:HD21	1:HJ:316:LEU:HD21	1.93	0.50
1:I:218:THR:HG22	7:0C:267:GLN:HE21	1.77	0.50
1:IB:294:PHE:HE2	1:IB:330:MET:HE1	1.77	0.50
2:IC:311:LYS:H	2:IC:382:THR:HG1	1.56	0.50
1:ID:327:ASP:HB3	2:IE:177:VAL:HG13	1.93	0.50
1:IH:325:GLU:CD	2:II:221:ARG:HG3	2.36	0.50
2:II:251:ASP:H	2:II:254:GLU:HG3	1.76	0.50
1:IL:139:LEU:HA	1:IL:145:SER:HB3	1.93	0.50
1:IL:175:VAL:HG11	1:IL:208:TYR:HE2	1.76	0.50
1:JA:294:PHE:CE2	1:JA:333:VAL:HG11	2.47	0.50
2:JB:185:TYR:HE2	2:JB:405:VAL:HG22	1.76	0.50
1:JC:187:LEU:HD22	1:JC:403:MET:HE1	1.92	0.50
1:JE:46:ARG:HH21	2:JF:73:THR:HA	1.76	0.50
1:JE:190:HIS:HB2	1:JE:414:ASN:ND2	2.27	0.50
1:JI:371:ASN:ND2	1:JI:373:CYS:SG	2.84	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JK:177:ASP:OD1	1:JK:177:ASP:N	2.43	0.50
1:JK:309:ARG:HH21	1:JK:342:ILE:HA	1.75	0.50
2:JL:103:TYR:CD1	2:JL:189:LEU:HB3	2.47	0.50
2:JN:91:GLN:HA	2:JN:121:ARG:HD2	1.93	0.50
2:JN:203:MET:HG3	2:JN:384:ILE:HD11	1.93	0.50
2:KB:67:PHE:HB2	2:KB:92:LEU:HD12	1.92	0.50
1:KE:113:ILE:HD13	1:KE:154:LYS:HD3	1.94	0.50
1:KG:198:GLU:HB2	1:KG:266:PHE:CE2	2.47	0.50
2:KH:18:ASN:OD1	2:KH:19:ALA:N	2.45	0.50
2:KH:268:VAL:HG12	2:KH:380:ASN:HB2	1.92	0.50
1:KI:63:ALA:O	1:KI:89:ASN:ND2	2.34	0.50
1:KI:184:ASN:OD1	1:KI:398:TYR:OH	2.23	0.50
1:LA:162:ARG:HG3	1:LA:162:ARG:HH11	1.77	0.50
2:LB:274:PRO:HG3	2:LB:286:LEU:HD12	1.94	0.50
2:LD:395:PHE:HZ	2:LD:418:PHE:HB3	1.77	0.50
1:LE:330:MET:SD	1:LE:349:ILE:HG21	2.52	0.50
1:LG:165:MET:HE1	1:LG:236:VAL:HG11	1.92	0.50
1:LI:297:LYS:HA	35:2O:75:ARG:HD2	1.94	0.50
2:LJ:22:GLU:O	2:LJ:26:LEU:HD23	2.11	0.50
1:LM:186:THR:O	1:LM:190:HIS:HD2	1.95	0.50
2:MC:49:PHE:HD2	2:MC:53:PHE:HB2	1.76	0.50
1:MF:256:ASN:O	1:MF:312:THR:HG21	2.11	0.50
1:MH:167:PHE:CE2	1:MH:268:MET:HE1	2.47	0.50
1:MH:245:GLN:NE2	1:MH:323:THR:OG1	2.44	0.50
1:MJ:178:THR:O	1:MJ:181:GLU:HG3	2.11	0.50
1:MJ:211:CYS:HA	1:MJ:215:LEU:HB2	1.92	0.50
2:MK:172:TYR:CD1	2:MK:203:MET:HE1	2.46	0.50
1:ML:330:MET:HA	1:ML:333:VAL:HG12	1.93	0.50
2:MM:271:SER:OG	2:MM:295:VAL:HG13	2.11	0.50
1:N:305:PRO:HA	1:N:373:CYS:HB3	1.94	0.50
1:N:403:MET:HE3	1:N:407:GLU:OE2	2.11	0.50
1:NB:333:VAL:HG12	1:NB:336:LYS:HZ3	1.76	0.50
2:NE:70:LEU:HD12	2:NE:99:ALA:HB2	1.92	0.50
1:NF:9:ALA:HA	1:NF:66:MET:HB3	1.93	0.50
1:NF:121:ARG:O	1:NF:125:GLU:HG3	2.12	0.50
2:NK:89:PRO:HB2	2:OK:280:LYS:NZ	2.26	0.50
1:NL:385:PHE:HD1	1:NL:412:GLU:OE2	1.95	0.50
1:O:128:ASP:OD1	1:O:129:CYS:N	2.44	0.50
1:O:255:VAL:HG23	2:OA:407:TRP:CD1	2.46	0.50
1:O:309:ARG:NH2	1:O:343:GLU:OE1	2.42	0.50
2:OA:89:PRO:HB2	2:PA:280:LYS:HE2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OC:11:GLN:N	71:OC:501:GTP:O2B	2.32	0.50
2:OE:75:VAL:HG13	2:OE:92:LEU:HG	1.93	0.50
1:OL:316:LEU:HG	1:OL:352:SER:OG	2.12	0.50
2:OM:187:CYS:O	2:OM:191:THR:HG23	2.11	0.50
2:PA:111:GLY:O	2:PA:115:VAL:HG12	2.10	0.50
1:PB:125:GLU:OE2	59:4a:140:ILE:HD12	2.12	0.50
2:PC:346:TRP:CD1	1:PD:391:ARG:HD3	2.47	0.50
1:PD:268:MET:H	1:PD:299:MET:HE1	1.75	0.50
1:PF:11:GLN:HA	1:PF:72:THR:HG21	1.94	0.50
1:PH:132:GLY:CA	1:PH:163:ILE:O	2.59	0.50
2:PI:286:LEU:O	2:PI:373:ARG:NH1	2.40	0.50
2:PK:362:VAL:HG11	2:PK:370:LYS:HB2	1.93	0.50
1:PL:249:ASP:OD1	1:PL:252:LYS:N	2.35	0.50
1:PL:375:GLN:OE1	1:PL:379:ARG:NH2	2.45	0.50
2:PM:74:VAL:O	2:PM:78:VAL:HG23	2.10	0.50
1:QA:345:ILE:HG23	1:QA:348:ASN:ND2	2.25	0.50
2:QD:209:ILE:HG21	2:QD:227:VAL:HA	1.93	0.50
1:QE:324:LYS:HE3	2:QF:214:ARG:HD2	1.93	0.50
2:QH:172:TYR:CE2	2:QH:203:MET:HG2	2.46	0.50
2:RD:84:ARG:HH22	41:2b:146:ARG:HA	1.77	0.50
1:RE:392:LYS:NZ	1:RE:405:GLU:OE2	2.45	0.50
2:RH:211:ASP:HA	2:RH:214:ARG:HG2	1.92	0.50
2:RJ:392:ASP:OD1	2:RJ:393:HIS:N	2.45	0.50
2:RL:229:ARG:HD3	2:RL:363:VAL:HG21	1.93	0.50
1:SB:46:ARG:NH2	2:SC:76:ASP:OD2	2.44	0.50
1:SB:324:LYS:HZ2	1:SB:328:GLU:HG3	1.77	0.50
1:SD:290:THR:HA	1:SD:293:MET:HE3	1.93	0.50
1:SF:173:PRO:HA	1:SF:176:SER:HB3	1.92	0.50
1:SH:67:ASP:O	1:SH:92:PHE:HA	2.11	0.50
1:SH:311:LEU:HA	1:SH:342:ILE:HD12	1.92	0.50
2:SK:160:ASP:OD1	2:SK:161:TYR:N	2.44	0.50
1:T:267:MET:HE1	1:T:305:PRO:HB3	1.93	0.50
1:TB:3:GLU:HA	1:TB:49:VAL:HA	1.93	0.50
1:TB:234:SER:O	1:TB:241:ARG:NH2	2.45	0.50
1:TD:105:HIS:CG	1:TD:150:LEU:HD23	2.46	0.50
1:TD:322:SER:OG	1:TD:325:GLU:OE1	2.30	0.50
1:TH:229:VAL:HG12	1:TH:233:MET:HE2	1.94	0.50
1:TJ:337:ASN:CG	61:3x:81:VAL:HG22	2.35	0.50
1:U:22:GLU:HG2	1:U:81:TYR:CD1	2.47	0.50
1:UB:50:TYR:HD2	1:UB:241:ARG:HD3	1.76	0.50
2:UE:155:GLU:HB3	2:UE:197:HIS:ND1	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:UE:394:LYS:O	2:UE:398:MET:HG2	2.11	0.50
1:UH:248:SER:HA	1:UH:252:LYS:HG2	1.93	0.50
2:UK:402:ARG:NH1	2:UK:415:GLU:OE2	2.45	0.50
1:UL:421:GLU:HA	1:UL:424:GLN:HG3	1.93	0.50
1:VF:175:VAL:O	1:VF:175:VAL:HG12	2.12	0.50
1:VH:330:MET:HA	1:VH:333:VAL:HG12	1.94	0.50
2:VI:195:LEU:HD11	2:VI:428:LEU:HD22	1.92	0.50
1:VJ:293:MET:HE1	1:VJ:330:MET:HE1	1.94	0.50
1:VL:309:ARG:NH1	1:VL:426:GLN:O	2.44	0.50
2:VM:88:ASN:HB3	2:WM:283:HIS:HB3	1.93	0.50
2:WA:252:LEU:HA	2:WA:255:PHE:CE1	2.47	0.50
1:WB:267:MET:HB2	1:WB:299:MET:HE2	1.93	0.50
2:WE:313:MET:HE3	2:WE:346:TRP:HH2	1.76	0.50
2:WG:205:ASP:OD1	2:WG:303:THR:HA	2.11	0.50
2:WI:1:MET:N	2:WI:3:GLU:OE2	2.34	0.50
1:WJ:139:LEU:HD12	1:WJ:170:ILE:HG13	1.93	0.50
3:XD:88:SER:OG	3:XD:104:ARG:NH1	2.43	0.50
3:XF:153:ARG:HB2	3:XF:153:ARG:NH1	2.26	0.50
8:0J:413:LEU:O	8:0J:417:LYS:HG2	2.12	0.50
9:0M:12:LEU:HD21	9:0M:15:ALA:HB2	1.92	0.50
9:0M:16:LEU:HD11	9:0M:356:CYS:SG	2.51	0.50
9:0M:84:PRO:HA	9:0M:109:VAL:HG22	1.94	0.50
16:0l:433:THR:HG22	16:0l:464:VAL:HG21	1.93	0.50
16:0l:561:GLY:O	16:0l:602:ALA:N	2.37	0.50
20:0t:195:ASN:HB3	20:0t:198:PHE:HB2	1.93	0.50
20:0u:65:PHE:CE2	20:0u:116:PRO:HG3	2.46	0.50
24:1J:30:ARG:HH11	45:2z:59:ALA:HB1	1.76	0.50
27:1T:739:LYS:NZ	27:1T:743:ASP:OD2	2.34	0.50
28:1g:186:ASN:O	28:1g:190:GLU:HG2	2.12	0.50
29:1j:9:TYR:CE1	44:2v:196:ALA:HB2	2.47	0.50
31:1r:151:LYS:O	31:1r:155:ARG:HG2	2.12	0.50
22:1w:268:HIS:NE2	22:1w:272:GLN:OE1	2.45	0.50
33:2I:92:TYR:HE1	33:2I:112:TYR:HD2	1.59	0.50
38:2U:211:LEU:HD21	38:2U:221:VAL:HG21	1.93	0.50
56:3d:125:ASP:O	56:3d:129:THR:HG22	2.12	0.50
65:5G:161:GLU:OE1	65:5G:164:ARG:NH2	2.44	0.50
1:A:68:LEU:HB3	1:A:95:SER:O	2.11	0.50
1:A:73:MET:HA	1:A:73:MET:HE2	1.94	0.50
2:AA:250:VAL:HG11	2:AA:318:MET:HE1	1.92	0.50
1:AB:327:ASP:HB3	2:AC:177:VAL:HG13	1.93	0.50
2:AE:29:GLY:HA3	2:AE:42:ILE:HG13	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AE:90:GLU:HB2	2:AE:121:ARG:NH1	2.26	0.50
1:AF:280:GLN:OE1	1:AF:280:GLN:N	2.28	0.50
2:AG:170:THR:HG21	2:AG:194:LEU:HD21	1.93	0.50
2:AK:273:ALA:HB3	2:AK:295:VAL:HG23	1.94	0.50
1:AL:248:SER:HA	1:AL:252:LYS:HD2	1.94	0.50
1:B:385:PHE:CZ	1:B:389:PHE:HE2	2.30	0.50
2:BA:221:ARG:NH1	16:0k:790:ASP:OD2	2.45	0.50
2:BA:295:VAL:HG21	2:BA:375:VAL:HG13	1.92	0.50
2:BA:332:ILE:O	2:BA:336:LYS:HG2	2.12	0.50
2:BC:227:VAL:O	2:BC:231:ILE:HG12	2.12	0.50
2:BC:298:PRO:HB3	2:BC:307:PRO:HD2	1.94	0.50
1:BF:59:TYR:OH	16:0k:161:ARG:NH2	2.45	0.50
2:BM:258:ASN:ND2	1:BN:99:ASN:HD22	2.09	0.50
1:CA:83:GLN:O	1:DA:281:TYR:OH	2.24	0.50
1:CA:362:LYS:HE2	16:0k:659:ALA:C	2.37	0.50
1:CI:273:LEU:H	1:CI:292:GLN:HE22	1.58	0.50
1:CK:61:PRO:HD3	1:CK:84:LEU:HG	1.93	0.50
1:DC:2:ARG:N	1:DC:129:CYS:O	2.45	0.50
1:DI:362:LYS:HZ1	24:1J:681:THR:HG22	1.77	0.50
2:DJ:5:ILE:HD13	2:DJ:64:ARG:HB3	1.94	0.50
2:DJ:184:PRO:HG2	2:DJ:394:LYS:HE3	1.94	0.50
1:DK:379:ARG:HE	1:DK:419:VAL:CG1	2.24	0.50
1:DM:83:GLN:O	1:EL:281:TYR:OH	2.27	0.50
1:EB:22:GLU:CD	1:EB:81:TYR:HD1	2.19	0.50
2:EE:69:ASP:OD1	2:EE:70:LEU:N	2.43	0.50
1:EJ:148:GLY:O	1:EJ:152:ILE:HG12	2.11	0.50
2:EK:260:VAL:O	1:EL:397:TRP:HH2	1.94	0.50
1:EL:242:PHE:HB2	1:EL:354:CYS:SG	2.51	0.50
1:F:200:MET:HG2	1:F:266:PHE:CB	2.41	0.50
1:FH:301:GLN:HE22	1:FH:303:ALA:HB2	1.77	0.50
1:GB:204:ASN:OD1	69:GB:500:GDP:O2'	2.30	0.50
1:GB:238:CYS:HB3	1:GB:318:ARG:HE	1.76	0.50
2:GC:188:VAL:HG13	2:GC:425:LEU:HD12	1.93	0.50
1:GD:226:ASN:HA	1:GD:229:VAL:HG12	1.94	0.50
1:GF:61:PRO:HD3	1:GF:84:LEU:HG	1.93	0.50
2:GI:288:VAL:HB	2:GI:327:ASP:HB3	1.92	0.50
2:GK:79:ARG:NH2	2:GK:92:LEU:O	2.44	0.50
1:H:178:THR:HB	1:H:181:GLU:HG3	1.92	0.50
1:HD:178:THR:HB	1:HD:181:GLU:HG2	1.92	0.50
2:HE:1:MET:N	2:HE:3:GLU:OE2	2.39	0.50
2:HG:237:SER:HA	2:HG:320:ARG:HD2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HJ:113:ILE:HG13	1:HJ:117:LEU:HD23	1.94	0.50
1:I:405:GLU:HA	1:I:408:PHE:HD2	1.75	0.50
2:IA:21:TRP:CZ2	2:IA:65:CYS:HB3	2.47	0.50
1:IB:325:GLU:OE2	2:IC:221:ARG:HA	2.12	0.50
1:IF:262:ARG:HG3	1:IF:262:ARG:HH11	1.77	0.50
2:IM:189:LEU:HD11	2:IM:418:PHE:CD1	2.47	0.50
2:IM:428:LEU:O	2:IM:432:TYR:HD2	1.94	0.50
1:JC:257:LEU:HA	1:JC:312:THR:HG21	1.92	0.50
1:JE:310:TYR:HA	1:JE:371:ASN:HA	1.93	0.50
1:JE:350:LYS:NZ	2:JF:179:THR:HG22	2.26	0.50
2:JJ:254:GLU:HA	1:JK:98:GLY:HA2	1.94	0.50
2:JJ:307:PRO:HB3	2:JJ:312:TYR:CE1	2.44	0.50
2:JL:54:SER:HB3	2:JL:64:ARG:HH12	1.76	0.50
2:JN:269:LEU:HD11	2:JN:305:CYS:SG	2.51	0.50
2:KD:175:PRO:HB3	2:KD:390:ARG:HE	1.74	0.50
1:KI:113:ILE:HG13	1:KI:117:LEU:HD23	1.94	0.50
2:KJ:138:PHE:HE2	2:KJ:235:VAL:HG21	1.77	0.50
2:KJ:224:TYR:HA	2:KJ:227:VAL:HG22	1.94	0.50
1:KM:316:LEU:HD23	1:KM:352:SER:HB2	1.92	0.50
1:LK:43:GLN:HE21	45:2z:79:LEU:HB2	1.76	0.50
1:LK:249:ASP:OD2	1:LK:252:LYS:N	2.33	0.50
2:LL:68:LEU:HD21	2:LL:149:LEU:HD21	1.93	0.50
1:MB:324:LYS:HZ2	2:MC:210:TYR:HB3	1.77	0.50
1:MD:10:GLY:O	1:MD:14:ASN:ND2	2.44	0.50
2:ME:178:SER:OG	2:ME:180:ALA:O	2.27	0.50
2:ME:192:HIS:HE1	2:ME:424:ASP:OD2	1.94	0.50
1:MH:161:ASP:OD2	1:MH:162:ARG:NH1	2.45	0.50
1:MH:360:GLY:HA2	23:1B:386:ASP:OD1	2.12	0.50
1:MJ:187:LEU:HD13	1:MJ:403:MET:HE1	1.94	0.50
1:N:232:VAL:HG11	1:N:268:MET:HG3	1.93	0.50
2:NA:439:SER:HB3	1:NB:391:ARG:HH11	1.76	0.50
1:NB:117:LEU:HA	1:NB:120:CYS:SG	2.51	0.50
1:NB:132:GLY:HA3	1:NB:163:ILE:HG22	1.93	0.50
2:NC:51:THR:HG21	2:NC:243:ARG:HG2	1.94	0.50
2:NE:260:VAL:HB	1:NF:397:TRP:HZ2	1.76	0.50
1:NH:256:ASN:HB3	1:NH:350:LYS:HE3	1.94	0.50
1:NL:87:PRO:HD3	1:OL:281:TYR:HD2	1.75	0.50
1:O:252:LYS:HA	2:OA:100:ALA:HB1	1.92	0.50
1:OB:332:ASN:HB3	1:OB:336:LYS:NZ	2.26	0.50
2:OG:9:ILE:HG22	2:OG:146:GLY:HA2	1.92	0.50
2:OG:175:PRO:HB3	2:OG:390:ARG:NE	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OH:392:LYS:NZ	1:OH:405:GLU:OE2	2.30	0.50
2:OM:252:LEU:HA	2:OM:255:PHE:CE2	2.46	0.50
2:PA:287:SER:O	2:PA:291:ILE:HG12	2.11	0.50
1:PD:276:ARG:NH2	41:2k:172:ASP:OD1	2.45	0.50
2:PE:320:ARG:HH21	2:PE:360:PRO:HA	1.77	0.50
2:PG:333:ALA:O	2:PG:337:THR:HG23	2.11	0.50
2:PI:59:GLY:HA2	41:2i:464:ARG:HE	1.75	0.50
1:PL:91:ILE:HD11	1:PL:119:VAL:HG21	1.94	0.50
1:PL:392:LYS:HG2	57:3h:29:TYR:HE1	1.76	0.50
1:QG:267:MET:HB3	1:QG:374:ILE:HD11	1.94	0.50
1:QI:326:VAL:HG11	1:QI:353:ILE:HD11	1.94	0.50
1:QI:375:GLN:NE2	1:QI:426:GLN:OE1	2.44	0.50
2:RD:28:HIS:HE1	2:RD:243:ARG:HE	1.60	0.50
1:RE:226:ASN:HA	1:RE:229:VAL:HG22	1.93	0.50
1:RI:3:GLU:O	1:RI:131:GLN:N	2.43	0.50
1:RK:8:GLN:HG2	1:RK:17:GLY:HA3	1.92	0.50
1:SB:5:VAL:HG23	1:SB:62:ARG:HG2	1.92	0.50
2:SC:28:HIS:NE2	2:SC:243:ARG:HD2	2.26	0.50
1:SD:284:LEU:HD12	1:SD:362:LYS:HE2	1.94	0.50
2:SI:280:LYS:HA	2:SI:283:HIS:HD2	1.77	0.50
1:T:222:PHE:O	1:T:226:ASN:ND2	2.43	0.50
2:TA:234:VAL:HG13	2:TA:376:CYS:SG	2.52	0.50
1:TD:62:ARG:NH2	1:TD:127:CYS:SG	2.76	0.50
1:TD:80:PRO:HG3	21:0w:320:VAL:HG21	1.93	0.50
1:TD:257:LEU:HB3	1:TD:266:PHE:CE2	2.46	0.50
1:TF:3:GLU:HA	1:TF:49:VAL:HG23	1.94	0.50
2:TG:406:HIS:HA	2:TG:409:VAL:HG22	1.92	0.50
1:TH:161:ASP:OD2	1:TH:162:ARG:NH1	2.44	0.50
1:UB:360:GLY:HA3	53:3W:203:THR:HG23	1.94	0.50
1:UF:105:HIS:ND1	1:UF:146:GLY:O	2.39	0.50
1:UF:327:ASP:HB3	2:UG:177:VAL:HG13	1.93	0.50
1:UL:239:CYS:HG	1:UL:248:SER:HG	1.60	0.50
1:VB:232:VAL:O	1:VB:236:VAL:HG23	2.11	0.50
2:VG:345:ASP:N	2:VG:345:ASP:OD1	2.43	0.50
2:VI:167:LEU:HD13	2:VI:200:VAL:HB	1.94	0.50
1:VL:55:SER:HB3	1:WL:284:LEU:H	1.77	0.50
1:VL:346:PRO:HG2	2:VM:394:LYS:NZ	2.26	0.50
2:VM:48:ALA:HB1	2:VM:244:PHE:HE1	1.77	0.50
2:VM:173:PRO:HG3	2:VM:183:GLU:HG2	1.94	0.50
2:WA:187:CYS:O	2:WA:191:THR:HG23	2.12	0.50
2:WA:212:LEU:HD21	2:WA:275:VAL:HG11	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:WA:388:PHE:HD2	2:WA:432:TYR:HE2	1.59	0.50
2:WE:9:ILE:HG22	2:WE:146:GLY:HA2	1.93	0.50
2:WK:228:ASN:OD1	71:WK:501:GTP:N1	2.43	0.50
1:WL:37:GLN:HA	21:0w:34:ASN:OD1	2.12	0.50
2:WM:178:SER:HB2	2:WM:183:GLU:OE1	2.12	0.50
3:XA:112:THR:HG23	3:XA:121:MET:HG2	1.93	0.50
3:XB:73:LEU:HD22	3:XB:169:ASP:HB3	1.92	0.50
3:XF:102:ARG:HB2	3:XF:118:ILE:HG12	1.93	0.50
6:0:57:MET:HE1	6:0:125:VAL:HG22	1.93	0.50
10:0R:145:LEU:HA	10:0R:148:MET:HE2	1.94	0.50
16:0l:777:LEU:HA	16:0l:782:PRO:HD2	1.92	0.50
17:0n:87:ALA:O	17:0n:91:LYS:HG2	2.11	0.50
19:0r:207:ALA:HA	19:0r:210:ARG:NH1	2.27	0.50
23:1A:109:ILE:HD13	40:2Z:121:ARG:HH22	1.76	0.50
23:1E:297:MET:HA	23:1E:301:GLN:HE21	1.75	0.50
24:1I:95:LEU:HD22	24:1I:187:THR:HG23	1.94	0.50
24:1J:2:ALA:N	44:2w:80:LEU:O	2.44	0.50
24:1J:182:ASP:OD1	24:1J:183:VAL:N	2.44	0.50
27:1S:767:ARG:HH21	27:1S:824:ARG:NH2	2.09	0.50
33:2G:91:ARG:HG2	33:2G:113:SER:HB2	1.93	0.50
38:2V:171:GLU:C	38:2V:172:LYS:HD3	2.37	0.50
41:2h:291:VAL:O	41:2h:295:HIS:ND1	2.40	0.50
42:2r:43:ARG:NH2	42:2r:244:ASP:OD1	2.45	0.50
45:2z:184:LEU:O	45:2z:187:THR:OG1	2.28	0.50
47:3D:137:PRO:HB3	47:3D:143:TRP:CH2	2.47	0.50
49:3P:325:ILE:HD11	49:3P:455:CYS:HB3	1.94	0.50
60:3r:104:ARG:O	60:3r:108:ILE:HG12	2.12	0.50
65:5H:160:ARG:NH2	65:5H:163:ARG:HE	2.09	0.50
67:5P:78:LEU:HB2	67:5P:103:PHE:HB2	1.94	0.50
1:A:255:VAL:HG23	2:AA:407:TRP:CG	2.46	0.50
1:A:268:MET:HE1	1:A:368:ILE:HG12	1.93	0.50
1:AF:236:VAL:HG13	1:AF:237:THR:HG23	1.92	0.50
2:AI:40:LYS:HE3	24:1I:96:ARG:HH21	1.76	0.50
1:AL:323:THR:HG22	2:AM:223:SER:HA	1.93	0.50
1:AN:377:MET:HA	1:AN:380:ARG:HG2	1.92	0.50
1:B:322:SER:OG	1:B:323:THR:N	2.44	0.50
2:BA:367:ASP:HB3	16:0k:806:HIS:CD2	2.47	0.50
1:BF:253:LEU:HD11	1:BF:316:LEU:HD11	1.93	0.50
1:BH:255:VAL:HG23	2:BI:407:TRP:CG	2.46	0.50
1:BH:313:ALA:HB1	1:BH:367:PHE:CE1	2.47	0.50
1:BL:22:GLU:HA	1:BL:81:TYR:HD2	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BM:250:VAL:HG23	2:BM:254:GLU:HB3	1.94	0.50
2:BM:257:THR:HG21	1:BN:98:GLY:O	2.12	0.50
1:CA:318:ARG:HB3	1:CA:357:PRO:HA	1.92	0.50
2:CD:269:LEU:N	2:CD:379:ALA:O	2.38	0.50
1:CI:226:ASN:OD1	69:CI:500:GDP:N1	2.40	0.50
1:CK:347:ASN:OD1	2:CL:178:SER:O	2.29	0.50
2:D:271:SER:HB2	2:D:377:MET:HG2	1.93	0.50
1:DE:232:VAL:HG11	1:DE:268:MET:HG2	1.94	0.50
2:DF:221:ARG:O	25:1O:698:GLN:HG2	2.12	0.50
2:DF:367:ASP:N	2:DF:367:ASP:OD1	2.44	0.50
2:DJ:211:ASP:HB3	2:DJ:215:ARG:NH1	2.26	0.50
1:DK:272:PRO:HG3	1:DK:289:LEU:HD21	1.94	0.50
2:DL:308:ARG:HB2	2:DL:308:ARG:NH1	2.27	0.50
2:EE:315:CYS:HB3	2:EE:377:MET:HE2	1.93	0.50
1:EF:44:LEU:HD21	42:2r:356:PRO:HD3	1.93	0.50
2:EG:237:SER:HA	2:EG:320:ARG:HD2	1.92	0.50
1:EJ:130:LEU:O	1:EJ:162:ARG:NH1	2.37	0.50
1:EJ:153:SER:HA	1:EJ:195:ASN:HD22	1.77	0.50
2:FA:317:LEU:HD23	2:FA:377:MET:HB2	1.93	0.50
1:FD:31:ASP:OD2	1:FD:35:THR:OG1	2.29	0.50
2:FE:212:LEU:HD23	2:FE:230:LEU:HD21	1.92	0.50
1:FF:294:PHE:HB3	63:4I:277:PHE:CE1	2.46	0.50
2:FG:254:GLU:OE2	2:FG:352:LYS:NZ	2.31	0.50
1:FH:10:GLY:O	1:FH:14:ASN:ND2	2.43	0.50
2:FI:316:CYS:O	2:FI:377:MET:HA	2.12	0.50
1:FJ:215:LEU:HB3	1:FJ:217:LEU:HD13	1.94	0.50
1:GB:139:LEU:HD12	1:GB:170:ILE:HG13	1.94	0.50
1:GB:232:VAL:O	1:GB:236:VAL:HG23	2.12	0.50
1:GD:316:LEU:HD23	1:GD:352:SER:OG	2.11	0.50
2:GG:270:THR:HG23	2:GG:302:LEU:HB2	1.92	0.50
1:GH:139:LEU:HD12	1:GH:170:ILE:HG22	1.94	0.50
2:GK:171:VAL:HG13	2:GK:205:ASP:HA	1.94	0.50
2:GK:271:SER:HB3	2:GK:301:MET:HG2	1.92	0.50
1:GL:340:TYR:HE2	59:4P:88:PHE:HB2	1.77	0.50
1:HB:322:SER:HB2	2:HC:222:PRO:O	2.11	0.50
2:HC:175:PRO:HD2	2:HC:304:LYS:HE3	1.94	0.50
2:HI:349:THR:HG22	1:HJ:173:PRO:HB3	1.94	0.50
1:HL:246:LEU:HD22	1:HL:352:SER:HA	1.92	0.50
2:HM:322:ASP:OD2	17:0n:85:LYS:NZ	2.44	0.50
2:HM:332:ILE:HD12	2:HM:351:PHE:CD1	2.47	0.50
2:IC:123:ARG:NH1	2:IC:127:ASP:HB3	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ID:251:ARG:HB3	2:IE:100:ALA:HB2	1.92	0.50
1:IJ:308:GLY:HA2	1:IJ:426:GLN:HE21	1.77	0.50
1:IL:167:PHE:CE1	1:IL:200:MET:HE3	2.46	0.50
1:IL:291:GLN:O	1:IL:295:ASP:HB2	2.12	0.50
2:IM:135:PHE:O	2:IM:136:MET:HE2	2.12	0.50
2:IM:170:THR:HB	2:IM:172:TYR:CE1	2.47	0.50
2:J:54:SER:HB2	2:J:64:ARG:HH12	1.77	0.50
2:J:205:ASP:N	2:J:205:ASP:OD1	2.43	0.50
2:J:205:ASP:OD1	2:J:303:THR:HA	2.12	0.50
2:J:244:PHE:CD2	2:J:358:GLN:HG3	2.47	0.50
1:JC:248:SER:HA	1:JC:252:LYS:HG2	1.93	0.50
1:JC:273:LEU:O	1:JC:292:GLN:NE2	2.30	0.50
2:JF:133:GLN:HG3	2:JF:252:LEU:HB2	1.93	0.50
2:JF:217:LEU:HD21	2:JF:367:ASP:HB2	1.93	0.50
2:JF:223:SER:OG	2:JF:224:TYR:N	2.45	0.50
1:JI:228:LEU:HD11	1:JI:273:LEU:HD11	1.94	0.50
2:JJ:318:MET:O	2:JJ:375:VAL:HA	2.12	0.50
1:JK:323:THR:HG21	2:JL:224:TYR:CD1	2.47	0.50
1:JM:86:ARG:HG3	1:KM:281:TYR:HB3	1.93	0.50
2:K:257:THR:HA	1:KA:397:TRP:CE2	2.47	0.50
2:KB:420:GLU:HA	2:KB:423:GLU:OE1	2.12	0.50
2:KJ:58:ALA:O	23:1E:118:GLN:NE2	2.36	0.50
2:LB:352:LYS:HG3	1:LC:177:ASP:O	2.12	0.50
2:LD:89:PRO:HG2	2:MC:280:LYS:HG2	1.93	0.50
1:LG:236:VAL:HA	1:LG:316:LEU:HD13	1.94	0.50
2:LH:1:MET:HB2	2:LH:131:GLY:HA3	1.92	0.50
1:LK:65:LEU:HB3	1:LK:73:MET:HE1	1.94	0.50
2:LL:50:ASN:OD1	2:LL:64:ARG:NH2	2.45	0.50
2:LL:309:HIS:CD2	31:1s:35:ARG:HH22	2.30	0.50
1:M:61:PRO:HD3	1:M:84:LEU:HG	1.93	0.50
2:MA:11:GLN:HG3	2:MA:74:VAL:HG21	1.94	0.50
1:MB:237:THR:HG22	1:MB:250:LEU:HD21	1.93	0.50
2:MC:309:HIS:ND1	2:MC:386:GLU:OE2	2.35	0.50
1:MD:73:MET:HA	1:MD:76:VAL:HG12	1.94	0.50
1:MD:212:PHE:CE2	1:MD:220:PRO:HG2	2.47	0.50
2:ME:203:MET:HG3	2:ME:269:LEU:HD23	1.94	0.50
2:ME:364:PRO:HB3	40:2Z:90:TYR:CE2	2.47	0.50
1:MH:152:ILE:HG22	1:MH:195:ASN:HB3	1.94	0.50
1:MH:336:LYS:HZ3	32:2C:222:PRO:HD3	1.76	0.50
2:MI:365:GLY:H	23:1B:373:ARG:NH2	2.10	0.50
2:MM:103:TYR:HD2	2:MM:413:MET:HE1	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MN:156:ARG:HH12	1:MN:197:ASP:CG	2.18	0.50
1:N:346:PRO:HG2	2:NA:394:LYS:NZ	2.27	0.50
2:NA:372:GLN:NE2	2:NA:373:ARG:HG2	2.27	0.50
1:ND:19:LYS:HE2	1:ND:223:GLY:O	2.11	0.50
2:NE:91:GLN:HG2	2:NE:125:LEU:HD21	1.94	0.50
1:O:323:THR:HG22	1:O:327:ASP:OD2	2.11	0.50
2:OC:335:ILE:HG23	2:OC:341:ILE:HD11	1.93	0.50
2:OE:11:GLN:HG2	2:OE:74:VAL:HG11	1.92	0.50
2:OG:4:ALA:HB1	2:OG:136:MET:HE2	1.94	0.50
2:OK:58:ALA:HA	41:2l:306:MET:SD	2.52	0.50
2:OK:115:VAL:HG23	2:OK:153:LEU:HD22	1.94	0.50
2:OK:348:PRO:HG2	1:OL:384:GLN:HG2	1.93	0.50
1:OL:135:LEU:HD12	1:OL:151:LEU:HD22	1.93	0.50
1:P:172:SER:OG	1:P:205:GLU:OE1	2.25	0.50
2:PA:319:TYR:HB3	2:PA:323:VAL:HG11	1.94	0.50
1:PB:164:MET:HB3	1:PB:197:ASP:H	1.76	0.50
1:PF:22:GLU:HG2	1:PF:81:TYR:CD1	2.46	0.50
1:PF:245:GLN:HE21	2:PG:224:TYR:HB2	1.77	0.50
1:PF:327:ASP:HB3	2:PG:177:VAL:HG13	1.93	0.50
2:PG:195:LEU:HD21	2:PG:428:LEU:HD13	1.93	0.50
2:PG:388:PHE:HA	2:PG:391:ILE:HG22	1.94	0.50
1:QA:308:GLY:HA3	1:QA:373:CYS:HB3	1.93	0.50
1:QG:129:CYS:HB2	2:QH:96:LYS:HE2	1.94	0.50
1:QK:267:MET:HE1	1:QK:310:TYR:CE1	2.47	0.50
2:RD:322:ASP:OD2	2:RD:373:ARG:NH2	2.45	0.50
2:RF:65:CYS:O	2:RF:91:GLN:NE2	2.43	0.50
1:RI:323:THR:HG22	2:RJ:223:SER:HA	1.92	0.50
2:RJ:2:ARG:HG3	2:RJ:2:ARG:HH11	1.75	0.50
2:RJ:212:LEU:O	2:RJ:216:SER:OG	2.19	0.50
2:RL:212:LEU:HD11	2:RL:275:VAL:HG11	1.93	0.50
1:SJ:340:TYR:OH	59:3p:239:LYS:O	2.23	0.50
2:SK:166:LYS:HB2	2:SK:199:ASP:H	1.76	0.50
1:T:388:MET:HE1	1:T:394:PHE:HD2	1.77	0.50
2:TA:2:ARG:HH11	1:TB:70:PRO:HG2	1.77	0.50
2:TE:50:ASN:O	2:TE:64:ARG:NH1	2.45	0.50
2:TE:352:LYS:HD2	1:TF:177:ASP:O	2.12	0.50
1:TF:150:LEU:O	1:TF:154:LYS:HG2	2.12	0.50
2:TK:388:PHE:CD1	2:TK:428:LEU:HD21	2.47	0.50
2:UC:311:LYS:H	2:UC:382:THR:HG1	1.58	0.50
1:UF:200:MET:HB2	1:UF:268:MET:HE3	1.94	0.50
1:VD:325:GLU:OE2	2:VE:221:ARG:HA	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VF:151:LEU:HG	1:VF:155:LEU:HD13	1.93	0.50
2:VG:214:ARG:HG2	62:4B:260:CYS:HB3	1.92	0.50
1:VJ:77:ARG:HG3	1:VJ:90:PHE:CE2	2.47	0.50
2:VM:3:GLU:HG2	2:VM:64:ARG:CZ	2.42	0.50
2:VM:116:ASP:OD1	2:VM:117:LEU:N	2.43	0.50
1:W:247:ASN:H	2:WA:11:GLN:NE2	2.09	0.50
2:WE:124:LYS:NZ	4:XO:31:PHE:HE1	2.10	0.50
2:WG:50:ASN:O	2:WG:64:ARG:NH1	2.45	0.50
1:WH:20:PHE:HA	1:WH:230:ALA:HB1	1.92	0.50
1:WH:36:TYR:OH	1:WH:40:SER:O	2.28	0.50
1:WL:417:ASP:O	1:WL:421:GLU:HG3	2.11	0.50
2:WM:388:PHE:HD2	2:WM:432:TYR:HE2	1.58	0.50
4:XM:153:LEU:HD22	4:XM:158:TYR:HE2	1.77	0.50
5:XN:121:ALA:O	5:XN:219:ARG:NH1	2.39	0.50
4:XR:123:PHE:CE2	4:XR:177:ALA:HB2	2.47	0.50
9:0M:164:HIS:HD1	9:0M:167:LYS:HG2	1.76	0.50
10:0S:362:LEU:O	10:0S:366:ILE:HG12	2.12	0.50
12:0W:110:ARG:NH2	43:2t:192:ASP:OD1	2.44	0.50
14:0c:274:HIS:HE1	14:0c:278:ILE:HD11	1.77	0.50
16:0l:12:MET:O	16:0l:16:ARG:HG2	2.12	0.50
16:0l:849:MET:HG2	16:0l:854:ALA:HB3	1.92	0.50
17:0m:134:LYS:HA	17:0m:137:MET:HE2	1.93	0.50
23:1E:56:LYS:HE2	23:1E:56:LYS:HA	1.93	0.50
24:1I:2:ALA:HB2	40:2Z:365:THR:HG22	1.92	0.50
24:1J:456:ILE:HB	24:1J:471:PHE:HB3	1.94	0.50
24:1K:122:PHE:CD2	24:1K:129:MET:HE1	2.46	0.50
28:1a:219:THR:HG23	28:1a:222:SER:H	1.76	0.50
22:1w:68:TYR:HD1	48:3F:47:TYR:CD2	2.30	0.50
22:1x:64:ARG:HG3	22:1x:69:TYR:HE2	1.77	0.50
33:2H:22:LEU:HD22	33:2H:81:ILE:HD11	1.93	0.50
33:2H:98:VAL:HB	33:2H:105:SER:HB2	1.94	0.50
35:2O:42:ALA:HB3	35:2O:43:PRO:HD3	1.94	0.50
36:2Q:194:TYR:CG	36:2Q:250:LEU:HD21	2.46	0.50
44:2v:394:VAL:O	44:2v:398:ILE:HG12	2.12	0.50
44:2w:58:SER:HB2	44:2w:68:LEU:HD23	1.92	0.50
44:2w:297:MET:HB3	44:2w:301:ARG:HE	1.77	0.50
49:3Q:130:GLU:O	49:3Q:150:ARG:HD3	2.11	0.50
57:3i:17:PRO:HA	57:3i:20:GLU:HG3	1.92	0.50
62:4B:334:ASP:O	62:4B:337:ARG:HG3	2.11	0.50
66:5K:168:ARG:NH2	66:5K:203:SER:O	2.44	0.50
2:AC:292:THR:HA	2:AC:295:VAL:HG12	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:325:PRO:HA	2:AC:328:VAL:HG12	1.94	0.50
1:AD:201:CYS:HB2	1:AD:301:GLN:NE2	2.26	0.50
2:AE:98:ASP:OD1	2:AE:99:ALA:N	2.44	0.50
2:AG:33:ASP:OD1	2:AG:34:GLY:N	2.45	0.50
1:AH:102:ALA:HB1	1:AH:401:GLU:HB2	1.94	0.50
2:AI:274:PRO:HD2	2:AI:374:ALA:HA	1.94	0.50
2:AI:283:HIS:CE1	2:MI:60:LYS:HZ1	2.29	0.50
1:AJ:362:LYS:NZ	54:3a:137:VAL:HA	2.27	0.50
2:AK:177:VAL:N	2:AK:207:GLU:OE2	2.37	0.50
1:AL:233:MET:O	1:AL:236:VAL:HG12	2.11	0.50
2:AM:120:ASP:OD1	2:AM:123:ARG:NH2	2.45	0.50
1:B:5:VAL:HG12	1:B:130:LEU:HD11	1.94	0.50
1:B:242:PHE:HB3	1:B:356:ILE:HD13	1.93	0.50
2:BG:123:ARG:NH1	2:BG:127:ASP:HB3	2.27	0.50
2:BG:237:SER:HA	2:BG:320:ARG:HD2	1.93	0.50
2:BG:402:ARG:HB2	2:BG:402:ARG:NH1	2.26	0.50
2:BM:88:ASN:OD1	2:CL:283:HIS:HB3	2.12	0.50
1:BN:178:THR:O	1:BN:181:GLU:HG3	2.11	0.50
1:BN:295:ASP:OD2	1:BN:297:LYS:HG2	2.12	0.50
2:CD:2:ARG:NH1	2:CD:242:LEU:O	2.44	0.50
2:CF:209:ILE:HD11	2:CF:302:LEU:HB3	1.94	0.50
1:CG:79:GLY:HA2	25:1O:331:HIS:CD2	2.46	0.50
1:CK:227:HIS:HE1	24:1J:326:SER:N	2.10	0.50
1:CM:193:VAL:HA	1:CM:264:HIS:NE2	2.27	0.50
2:D:252:LEU:HA	2:D:255:PHE:CE1	2.47	0.50
2:DD:99:ALA:HA	2:DD:110:ILE:HD11	1.94	0.50
2:DD:346:TRP:CD1	1:DE:391:ARG:HD2	2.46	0.50
2:DH:392:ASP:OD2	2:DH:422:ARG:NH2	2.45	0.50
1:E:58:ARG:NH2	1:E:83:GLN:O	2.45	0.50
1:EB:1:MET:SD	2:EC:72:PRO:HG3	2.52	0.50
1:ED:166:THR:HG21	1:ED:192:LEU:HD22	1.94	0.50
2:EE:170:THR:HG21	2:EE:194:LEU:HD21	1.94	0.50
1:EH:309:ARG:HE	1:EH:342:ILE:HG12	1.76	0.50
2:EI:71:GLU:HB3	2:EI:98:ASP:HB3	1.93	0.50
1:EL:293:MET:HE1	1:EL:365:VAL:HG21	1.94	0.50
1:F:213:ARG:HE	1:F:297:LYS:HE2	1.77	0.50
1:F:325:GLU:OE1	2:FA:221:ARG:NH2	2.45	0.50
1:FB:86:ARG:HG3	1:GB:281:TYR:HB3	1.93	0.50
2:FG:387:VAL:O	2:FG:391:ILE:HG12	2.11	0.50
1:FH:113:ILE:HA	1:FH:116:VAL:HG12	1.94	0.50
1:FH:385:PHE:HZ	1:FH:408:PHE:HB3	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FL:117:LEU:HA	1:FL:120:CYS:SG	2.52	0.50
1:GB:5:VAL:HG12	1:GB:130:LEU:HD11	1.92	0.50
1:GB:83:GLN:O	1:HB:281:TYR:OH	2.25	0.50
2:GC:104:ALA:HB2	2:GC:413:MET:HE3	1.92	0.50
1:GD:254:ALA:O	1:GD:258:VAL:HG22	2.11	0.50
1:GD:329:GLN:HE21	59:4O:198:SER:HB3	1.76	0.50
1:GF:255:VAL:HG11	2:GG:100:ALA:O	2.12	0.50
1:GF:274:THR:HG23	1:GF:282:ARG:HH11	1.75	0.50
1:GH:326:VAL:O	1:GH:330:MET:HG2	2.12	0.50
1:GL:275:SER:OG	1:GL:278:SER:OG	2.27	0.50
1:H:185:THR:O	1:H:189:VAL:HG23	2.11	0.50
2:HA:290:ASP:OD1	2:HA:291:ILE:N	2.44	0.50
2:HA:328:VAL:O	2:HA:332:ILE:HG12	2.11	0.50
1:HB:25:SER:HB2	1:HB:81:TYR:HE2	1.77	0.50
1:HF:377:MET:SD	1:HF:377:MET:N	2.85	0.50
1:HH:347:ASN:HD22	2:HI:178:SER:HB3	1.77	0.50
2:HK:147:SER:HB2	2:HK:190:SER:HB3	1.94	0.50
2:HK:288:VAL:HB	2:HK:327:ASP:HB3	1.94	0.50
2:HM:135:PHE:O	2:HM:136:MET:HE2	2.12	0.50
2:HM:203:MET:HE3	2:HM:384:ILE:HD11	1.93	0.50
1:I:167:PHE:CD2	1:I:233:MET:HG2	2.47	0.50
1:IB:183:TYR:CE2	1:IB:388:MET:HE3	2.46	0.50
1:IF:309:ARG:H	1:IF:372:THR:HG1	1.57	0.50
1:IJ:91:ILE:HD11	1:IJ:119:VAL:HG11	1.93	0.50
2:IK:205:ASP:OD1	2:IK:206:ASN:N	2.45	0.50
1:JA:103:LYS:HA	1:JA:107:THR:HG22	1.94	0.50
2:JD:257:THR:HA	1:JE:397:TRP:CE2	2.47	0.50
2:JF:237:SER:HA	2:JF:320:ARG:HD2	1.92	0.50
1:JI:413:SER:O	60:3s:93:LYS:NZ	2.26	0.50
2:JJ:398:MET:HG2	2:JJ:403:ALA:HB3	1.94	0.50
1:JK:189:VAL:HG11	1:JK:415:MET:SD	2.51	0.50
2:JL:5:ILE:HD13	2:JL:64:ARG:HG2	1.93	0.50
2:JL:9:ILE:HD13	2:JL:150:GLY:HA2	1.94	0.50
2:K:274:PRO:HD3	2:K:374:ALA:HA	1.94	0.50
1:KC:330:MET:HA	1:KC:333:VAL:HG12	1.93	0.50
1:KG:65:LEU:HB3	1:KG:73:MET:HE1	1.94	0.50
2:KH:174:SER:OG	2:KH:177:VAL:O	2.18	0.50
2:LD:22:GLU:OE2	29:1k:198:GLY:HA3	2.12	0.50
2:LD:172:TYR:HE2	2:LD:388:PHE:HE1	1.58	0.50
1:LE:174:ARG:HD2	1:LE:205:GLU:OE2	2.11	0.50
2:LF:41:CYS:O	23:1A:115:LYS:NZ	2.37	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LI:236:VAL:HG23	1:LI:237:THR:HG23	1.92	0.50
1:LK:87:PRO:HD3	1:MJ:281:TYR:HD2	1.75	0.50
2:LL:188:VAL:O	2:LL:191:THR:HG22	2.11	0.50
1:LM:27:GLU:O	1:LM:43:GLN:NE2	2.35	0.50
1:M:299:MET:CE	1:M:305:PRO:HG2	2.41	0.50
2:MA:318:MET:O	2:MA:375:VAL:HA	2.11	0.50
1:MB:8:GLN:HE21	1:MB:17:GLY:HA3	1.77	0.50
1:MB:36:TYR:OH	1:MB:40:SER:O	2.29	0.50
1:MB:397:TRP:O	1:MB:401:GLU:HG2	2.12	0.50
2:MG:45:GLU:OE1	2:MG:244:PHE:HD1	1.94	0.50
2:MK:184:PRO:HG3	2:MK:394:LYS:HG2	1.92	0.50
2:MM:431:ASP:HB3	33:2I:146:HIS:HE1	1.75	0.50
2:NA:152:LEU:O	2:NA:156:ARG:HG2	2.12	0.50
2:NC:203:MET:N	2:NC:203:MET:HE2	2.26	0.50
2:NE:270:THR:HG22	2:NE:378:ILE:HD13	1.93	0.50
2:NG:167:LEU:HD11	2:NG:252:LEU:HD12	1.92	0.50
2:NI:47:ASP:OD1	2:NI:47:ASP:N	2.45	0.50
2:NI:173:PRO:HG3	2:NI:183:GLU:HG2	1.93	0.50
1:NJ:273:LEU:H	1:NJ:292:GLN:HE22	1.60	0.50
1:NL:245:GLN:HE21	2:NM:224:TYR:HB2	1.77	0.50
1:O:389:PHE:HZ	1:O:405:GLU:HG3	1.76	0.50
2:OA:172:TYR:HE2	2:OA:388:PHE:HE1	1.60	0.50
2:OE:205:ASP:N	2:OE:205:ASP:OD1	2.41	0.50
2:OG:223:SER:OG	2:OG:224:TYR:N	2.42	0.50
1:OH:61:PRO:HD3	1:OH:84:LEU:HG	1.94	0.50
1:OH:187:LEU:HD11	1:OH:408:PHE:HE1	1.77	0.50
2:OI:160:ASP:OD1	2:OI:161:TYR:N	2.44	0.50
2:OI:218:ASP:HB2	2:OI:280:LYS:NZ	2.27	0.50
1:OL:321:MET:HB3	1:OL:363:MET:HE1	1.94	0.50
2:OM:23:LEU:O	2:OM:27:GLU:HG3	2.12	0.50
1:P:254:ALA:O	1:P:258:VAL:HG22	2.12	0.50
1:P:323:THR:OG1	1:P:327:ASP:OD2	2.29	0.50
1:PB:163:ILE:HG21	1:PB:250:LEU:HB3	1.94	0.50
1:PB:423:GLN:NE2	1:PB:426:GLN:OE1	2.45	0.50
2:PG:252:LEU:HA	2:PG:255:PHE:CE1	2.47	0.50
2:PG:431:ASP:OD1	2:PG:432:TYR:N	2.45	0.50
1:PH:305:PRO:HA	1:PH:371:ASN:HD21	1.77	0.50
2:PI:173:PRO:HG3	2:PI:183:GLU:HG2	1.93	0.50
1:PJ:46:ARG:HH22	2:PK:73:THR:HA	1.77	0.50
1:PJ:66:MET:SD	1:PJ:151:LEU:HD22	2.52	0.50
1:PJ:299:MET:HA	1:PJ:299:MET:HE2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QB:175:PRO:HD2	2:QB:207:GLU:CG	2.41	0.50
1:QC:282:ARG:NH1	1:QC:288:GLU:OE2	2.44	0.50
1:QC:282:ARG:NH2	1:QC:292:GLN:OE1	2.44	0.50
2:QF:129:CYS:SG	2:QF:132:LEU:HB2	2.52	0.50
2:QF:204:LEU:HD22	2:QF:231:ILE:HG12	1.94	0.50
1:QI:232:VAL:HG21	1:QI:268:MET:HB3	1.92	0.50
1:QI:235:GLY:HA3	1:QI:366:THR:HG21	1.93	0.50
2:QJ:152:LEU:O	2:QJ:156:ARG:HG3	2.11	0.50
2:QL:418:PHE:O	2:QL:422:ARG:HG2	2.11	0.50
2:R:319:TYR:CD1	2:R:323:VAL:HG11	2.47	0.50
1:RA:33:THR:O	1:RA:58:ARG:NE	2.45	0.50
1:RA:311:LEU:HD23	1:RA:342:ILE:HD12	1.94	0.50
2:RB:258:ASN:HD22	2:RB:352:LYS:HD2	1.76	0.50
1:RE:326:VAL:HG11	1:RE:353:ILE:HD11	1.93	0.50
1:RG:83:GLN:O	1:SF:281:TYR:OH	2.21	0.50
1:RG:246:LEU:HD11	2:RH:179:THR:HG21	1.93	0.50
2:RH:275:VAL:HG13	2:RH:368:LEU:HD21	1.92	0.50
2:SA:151:ALA:HB1	2:SA:193:SER:HB2	1.94	0.50
1:SD:175:VAL:HG23	1:SD:205:GLU:OE2	2.12	0.50
2:SK:138:PHE:CD1	2:SK:169:TYR:HB2	2.46	0.50
2:SK:337:THR:HG23	59:3p:265:LYS:NZ	2.27	0.50
2:SK:349:THR:OG1	2:SK:350:GLY:N	2.45	0.50
1:T:32:PRO:HD3	1:T:81:TYR:CE1	2.47	0.50
2:TA:257:THR:HG1	1:TB:397:TRP:CD1	2.29	0.50
1:TD:117:LEU:HD21	1:TD:154:LYS:HD2	1.92	0.50
1:TD:183:TYR:OH	1:TD:393:ALA:O	2.20	0.50
1:TH:16:ILE:HD11	1:TH:229:VAL:HG11	1.93	0.50
2:TI:326:LYS:HE3	1:TJ:220:PRO:HD2	1.94	0.50
1:TJ:316:LEU:HG	1:TJ:352:SER:HB2	1.93	0.50
1:UF:190:HIS:HB2	1:UF:414:ASN:ND2	2.26	0.50
2:UK:138:PHE:HE2	2:UK:235:VAL:HG21	1.75	0.50
1:V:16:ILE:HD11	1:V:229:VAL:HG11	1.93	0.50
2:VA:21:TRP:CZ2	2:VA:65:CYS:HB3	2.47	0.50
2:VA:209:ILE:HG21	2:VA:227:VAL:HG13	1.93	0.50
2:VA:227:VAL:O	2:VA:231:ILE:HG12	2.12	0.50
1:VB:309:ARG:NH1	1:VB:426:GLN:O	2.38	0.50
2:VK:3:GLU:HB2	2:VK:129:CYS:SG	2.51	0.50
2:VK:291:ILE:O	2:VK:295:VAL:HG23	2.12	0.50
2:WC:74:VAL:O	2:WC:78:VAL:HG23	2.11	0.50
2:WC:178:SER:HB2	2:WC:183:GLU:OE1	2.12	0.50
1:WD:183:TYR:CD2	1:WD:388:MET:HE3	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:WD:313:ALA:HB1	1:WD:367:PHE:CE1	2.45	0.50
2:WE:11:GLN:O	2:WE:15:GLN:HG3	2.12	0.50
2:WE:258:ASN:HD21	1:WF:179:VAL:N	2.05	0.50
2:WG:75:VAL:HG21	2:WG:94:SER:HB2	1.94	0.50
2:WG:388:PHE:HD1	2:WG:432:TYR:HE2	1.58	0.50
2:WI:195:LEU:HD21	2:WI:428:LEU:HD22	1.94	0.50
3:XC:93:ILE:HA	3:XC:151:THR:HA	1.93	0.50
4:XQ:219:LEU:O	4:XQ:223:GLN:HG3	2.12	0.50
7:0C:332:ASP:OD1	38:2U:178:ASN:ND2	2.44	0.50
11:0U:218:HIS:O	11:0U:222:GLU:HG3	2.12	0.50
23:1E:315:GLU:OE2	29:1k:201:TYR:HB3	2.11	0.50
24:1I:167:VAL:HB	24:1I:199:PRO:HD2	1.93	0.50
24:1I:413:LYS:O	24:1I:417:ARG:HG2	2.11	0.50
25:1O:146:GLN:N	25:1O:146:GLN:OE1	2.45	0.50
28:1U:187:TYR:HA	28:1U:191:TYR:HD2	1.77	0.50
22:1x:46:ARG:HB3	22:1x:107:ILE:HD11	1.93	0.50
33:2F:159:PRO:HB2	33:2F:240:LEU:HG	1.92	0.50
38:2V:138:ASP:OD1	38:2V:139:ILE:N	2.44	0.50
44:2v:210:ILE:HB	44:2v:213:MET:HE3	1.93	0.50
46:3B:74:ARG:O	46:3B:78:GLN:HG2	2.12	0.50
53:3W:245:PRO:HG2	53:3W:314:LEU:HD22	1.92	0.50
63:4I:280:ARG:HG2	63:4I:281:TRP:CD2	2.46	0.50
66:5L:187:SER:HA	66:5L:198:LEU:HD13	1.94	0.50
68:5S:112:ILE:HG22	68:5S:116:ARG:HG3	1.93	0.50
1:A:233:MET:O	1:A:236:VAL:HG12	2.12	0.50
2:AA:205:ASP:N	2:AA:205:ASP:OD1	2.43	0.50
1:AD:392:LYS:HD2	1:AD:395:LEU:HD22	1.94	0.50
2:AE:206:ASN:HB3	2:AE:210:TYR:CE1	2.47	0.50
1:AF:311:LEU:HB2	1:AF:370:ASN:O	2.11	0.50
1:AH:240:LEU:HD11	1:AH:250:LEU:HG	1.94	0.50
1:AJ:286:VAL:HG12	1:AJ:329:GLN:HG3	1.94	0.50
1:AJ:332:ASN:O	1:AJ:336:LYS:HG2	2.12	0.50
1:AN:113:ILE:HG13	1:AN:117:LEU:HD23	1.92	0.50
1:B:286:VAL:HG11	1:B:325:GLU:HB3	1.92	0.50
1:BF:167:PHE:CZ	1:BF:233:MET:HG2	2.46	0.50
1:BH:208:TYR:CE1	1:BH:225:LEU:HD11	2.47	0.50
1:BH:237:THR:HG22	1:BH:250:LEU:HD21	1.94	0.50
1:BH:330:MET:SD	1:BH:349:ILE:HG12	2.52	0.50
1:BH:357:PRO:HD2	16:0l:781:ARG:HG3	1.93	0.50
1:BJ:360:GLY:HA3	24:1I:109:ALA:HA	1.94	0.50
1:BN:61:PRO:HD3	1:BN:84:LEU:HG	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CC:346:PRO:HB2	2:CD:394:LYS:HE3	1.94	0.50
2:CD:167:LEU:HD13	2:CD:200:VAL:HB	1.94	0.50
2:CD:326:LYS:HZ3	1:CE:220:PRO:HD2	1.75	0.50
1:CE:170:ILE:HG21	1:CE:377:MET:SD	2.52	0.50
1:CE:255:VAL:HG11	2:CF:100:ALA:O	2.12	0.50
1:CG:43:GLN:HA	1:CG:242:PHE:HE1	1.75	0.50
1:CG:66:MET:SD	1:CG:116:VAL:HG11	2.52	0.50
1:CG:293:MET:HE3	1:CG:367:PHE:HB2	1.93	0.50
1:CG:344:TRP:CD2	2:CH:401:LYS:HD2	2.47	0.50
2:CH:11:GLN:HB2	2:CH:74:VAL:HG11	1.93	0.50
2:CH:240:ALA:HB2	2:CH:243:ARG:HH21	1.77	0.50
2:CJ:44:VAL:HG11	24:1J:302:LYS:NZ	2.26	0.50
1:CK:301:GLN:HE22	1:CK:303:ALA:HB3	1.77	0.50
2:D:317:LEU:O	2:D:318:MET:HE2	2.12	0.50
1:DA:350:LYS:HD3	2:DB:180:ALA:HA	1.94	0.50
1:DG:165:MET:HE1	1:DG:236:VAL:HG11	1.94	0.50
1:DG:267:MET:N	1:DG:369:GLY:O	2.32	0.50
1:DI:11:GLN:HA	1:DI:72:THR:HG21	1.92	0.50
2:DJ:211:ASP:HB3	2:DJ:215:ARG:HH12	1.75	0.50
2:DL:27:GLU:OE1	2:DL:243:ARG:NH2	2.45	0.50
1:DM:117:LEU:HA	1:DM:120:CYS:SG	2.52	0.50
1:E:345:ILE:HG23	1:E:348:ASN:OD1	2.12	0.50
2:EA:251:ASP:H	2:EA:254:GLU:CB	2.25	0.50
1:EB:207:LEU:HB3	1:EB:225:LEU:CD1	2.42	0.50
2:EC:288:VAL:HA	2:EC:291:ILE:HG12	1.94	0.50
2:EE:265:ILE:HG21	2:EE:313:MET:HE1	1.93	0.50
2:EG:312:TYR:CD1	2:EG:381:SER:HB2	2.46	0.50
1:F:150:LEU:HG	1:F:154:LYS:NZ	2.25	0.50
1:F:322:SER:OG	2:FA:221:ARG:NE	2.45	0.50
1:FB:91:ILE:HG22	1:FB:112:LEU:HD21	1.94	0.50
1:FD:2:ARG:HH12	2:FE:71:GLU:CB	2.25	0.50
1:FD:238:CYS:SG	1:FD:239:CYS:N	2.85	0.50
1:FF:253:LEU:HD21	1:FF:316:LEU:HD21	1.94	0.50
2:FG:174:SER:HB2	2:FG:207:GLU:HG3	1.93	0.50
1:FH:332:ASN:O	1:FH:336:LYS:HG2	2.12	0.50
1:FJ:113:ILE:HG13	1:FJ:117:LEU:HD23	1.93	0.50
2:GE:22:GLU:HG2	2:GE:83:TYR:CZ	2.47	0.50
2:HA:88:ASN:HB3	2:HA:91:GLN:HG2	1.94	0.50
2:HA:109:THR:HG23	2:HA:110:ILE:HG12	1.92	0.50
2:HC:19:ALA:O	2:HC:22:GLU:HG3	2.12	0.50
1:HD:46:ARG:NH2	2:HE:76:ASP:OD2	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HE:88:ASN:OD1	2:HE:89:PRO:HD2	2.12	0.50
1:HH:147:MET:HA	1:HH:147:MET:HE2	1.94	0.50
1:HL:293:MET:HE1	1:HL:365:VAL:HG21	1.93	0.50
2:IA:3:GLU:HA	2:IA:51:THR:HA	1.94	0.50
2:IA:271:SER:OG	2:IA:295:VAL:HG13	2.12	0.50
1:IH:189:VAL:HG11	1:IH:415:MET:HG3	1.94	0.50
2:II:435:VAL:HA	1:IJ:391:ARG:HH21	1.77	0.50
1:IJ:245:GLN:HB3	2:IK:224:TYR:HD2	1.77	0.50
2:IK:27:GLU:OE2	2:IK:243:ARG:NH1	2.42	0.50
2:IK:53:PHE:HB3	2:IK:61:HIS:HB3	1.94	0.50
2:IM:392:ASP:HB3	2:IM:425:LEU:HD23	1.94	0.50
1:JA:114:ASP:OD1	1:JA:115:SER:N	2.44	0.50
1:JE:306:ARG:HG3	1:JE:340:TYR:CZ	2.46	0.50
2:JH:186:ASN:OD1	2:JH:408:TYR:OH	2.29	0.50
1:JK:404:ASP:OD1	1:JK:405:GLU:N	2.45	0.50
2:JL:18:ASN:HD22	52:3U:230:TYR:HE2	1.58	0.50
2:JL:90:GLU:OE2	2:JL:121:ARG:NH1	2.45	0.50
2:JL:325:PRO:HA	2:JL:328:VAL:HG12	1.93	0.50
2:K:90:GLU:O	2:K:91:GLN:HG3	2.12	0.50
2:KF:252:LEU:HA	2:KF:255:PHE:CE2	2.47	0.50
2:KH:76:ASP:OD1	2:KH:79:ARG:NH2	2.42	0.50
1:KI:65:LEU:HD22	1:KI:90:PHE:CE1	2.47	0.50
2:KJ:123:ARG:NH2	2:LJ:297:GLU:OE1	2.44	0.50
2:KL:144:GLY:N	71:KL:501:GTP:O1G	2.30	0.50
1:KM:226:ASN:OD1	69:KM:500:GDP:N1	2.37	0.50
2:LB:311:LYS:H	2:LB:382:THR:HG1	1.60	0.50
1:LG:167:PHE:CZ	1:LG:233:MET:HG2	2.46	0.50
1:LI:204:ASN:ND2	69:LI:500:GDP:O2'	2.44	0.50
2:LJ:6:CYS:O	2:LJ:65:CYS:HA	2.10	0.50
2:LJ:322:ASP:OD2	2:LJ:373:ARG:NE	2.37	0.50
1:MD:209:ASP:OD2	32:2B:242:ARG:NE	2.45	0.50
1:MD:324:LYS:HZ3	2:ME:210:TYR:HB3	1.76	0.50
2:ME:194:LEU:O	2:ME:198:THR:HG22	2.11	0.50
1:MF:204:ASN:HD21	69:MF:500:GDP:HN22	1.60	0.50
1:MJ:175:VAL:HG11	1:MJ:204:ASN:HB2	1.93	0.50
1:NB:202:ILE:HG23	1:NB:207:LEU:HD21	1.94	0.50
2:NE:116:ASP:OD1	2:NE:117:LEU:N	2.45	0.50
1:NF:4:ILE:HB	1:NF:50:TYR:HE1	1.76	0.50
1:NH:91:ILE:HD13	1:NH:116:VAL:HG12	1.93	0.50
2:NI:184:PRO:HG3	2:NI:394:LYS:HD2	1.94	0.50
2:NK:422:ARG:NH1	2:NK:426:ALA:HB2	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NM:138:PHE:HE2	2:NM:235:VAL:HG21	1.76	0.50
1:O:91:ILE:HD11	1:O:119:VAL:HG21	1.93	0.50
1:O:292:GLN:HA	1:O:295:ASP:HB2	1.92	0.50
1:OB:139:LEU:HD12	1:OB:170:ILE:HG13	1.94	0.50
1:OB:415:MET:O	1:OB:419:VAL:HG23	2.11	0.50
2:OC:211:ASP:HA	2:OC:214:ARG:HG2	1.93	0.50
1:OD:61:PRO:HG2	1:OD:85:PHE:HD1	1.77	0.50
1:OH:324:LYS:NZ	2:OI:222:PRO:O	2.45	0.50
2:OI:79:ARG:O	2:OI:84:ARG:HG2	2.12	0.50
2:OK:129:CYS:HB2	2:OK:132:LEU:HD23	1.94	0.50
2:OK:225:THR:HG21	28:1h:117:ASP:HB3	1.94	0.50
2:OK:261:PRO:HA	1:OL:394:PHE:CD2	2.47	0.50
2:OK:318:MET:O	2:OK:375:VAL:HA	2.12	0.50
2:PA:262:TYR:HB2	2:PA:265:ILE:HG12	1.94	0.50
2:PE:205:ASP:OD1	2:PE:303:THR:HA	2.12	0.50
2:PI:1:MET:N	2:PI:3:GLU:OE2	2.36	0.50
1:PL:342:ILE:HD11	1:PL:344:TRP:CH2	2.47	0.50
2:PM:118:ALA:O	2:PM:122:ILE:HG12	2.11	0.50
1:QC:233:MET:O	1:QC:236:VAL:HG12	2.12	0.50
2:QD:259:LEU:HD21	2:QD:268:VAL:HG11	1.93	0.50
1:QE:149:THR:HA	1:QE:152:ILE:HG12	1.94	0.50
1:QE:337:ASN:ND2	59:4a:242:VAL:O	2.45	0.50
2:QF:5:ILE:HG23	2:QF:125:LEU:HD13	1.94	0.50
1:QG:249:ASP:O	1:QG:253:LEU:HG	2.12	0.50
1:QI:210:ILE:HD11	1:QI:298:ASN:HA	1.94	0.50
2:QL:252:LEU:HA	2:QL:255:PHE:CE2	2.47	0.50
2:RB:256:GLN:HE21	1:RC:397:TRP:HH2	1.59	0.50
1:RC:377:MET:HG2	1:RC:380:ARG:HH22	1.77	0.50
2:RD:1:MET:SD	1:RE:94:GLN:NE2	2.84	0.50
2:RD:7:ILE:HB	2:RD:137:VAL:HG22	1.93	0.50
1:RK:244:GLY:HA2	1:RK:355:ASP:CG	2.36	0.50
1:S:167:PHE:CZ	1:S:233:MET:HG2	2.46	0.50
1:S:293:MET:SD	1:S:367:PHE:HB2	2.52	0.50
2:SC:22:GLU:O	2:SC:26:LEU:HD23	2.12	0.50
1:T:314:SER:HB3	1:T:368:ILE:HG13	1.93	0.50
2:TA:320:ARG:HG2	2:TA:320:ARG:HH11	1.77	0.50
1:TD:55:SER:HB3	1:UD:284:LEU:H	1.77	0.50
2:TE:276:VAL:HG12	2:TE:280:LYS:HE2	1.93	0.50
1:TF:324:LYS:O	1:TF:328:GLU:HG2	2.12	0.50
1:UB:334:GLN:HA	1:UB:341:PHE:HE2	1.76	0.50
2:UC:228:ASN:O	2:UC:231:ILE:HG22	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UD:282:ARG:HH11	1:UD:282:ARG:HG2	1.76	0.50
2:UE:76:ASP:HA	2:UE:79:ARG:HB2	1.93	0.50
2:UE:262:TYR:HB2	2:UE:265:ILE:HG12	1.94	0.50
1:UF:257:LEU:HA	1:UF:312:THR:HG21	1.94	0.50
1:UH:290:THR:HG21	1:UH:329:GLN:HB3	1.94	0.50
2:UI:288:VAL:HA	2:UI:291:ILE:HG12	1.94	0.50
2:UK:211:ASP:HA	2:UK:214:ARG:HG2	1.93	0.50
1:VB:267:MET:HG3	1:VB:369:GLY:O	2.12	0.50
1:VF:347:ASN:ND2	2:VG:180:ALA:O	2.44	0.50
1:VH:234:SER:O	1:VH:241:ARG:NH2	2.44	0.50
1:VJ:170:ILE:HG21	1:VJ:377:MET:SD	2.52	0.50
2:VM:139:HIS:O	2:VM:170:THR:HA	2.12	0.50
2:VM:320:ARG:HH12	2:VM:360:PRO:HG3	1.76	0.50
1:WD:222:PHE:O	1:WD:226:ASN:ND2	2.44	0.50
2:WE:192:HIS:NE2	2:WE:421:ALA:HA	2.27	0.50
1:WF:374:ILE:O	1:WF:377:MET:HG2	2.11	0.50
1:WJ:27:GLU:OE2	1:WJ:318:ARG:NH2	2.34	0.50
8:0G:312:ASN:O	8:0G:315:ARG:HD3	2.12	0.50
8:0H:451:LEU:HA	8:0H:454:ILE:HD13	1.92	0.50
9:0N:162:ASN:HD22	9:0N:209:LYS:HA	1.76	0.50
9:0N:234:PHE:HZ	9:0N:237:GLN:HB2	1.77	0.50
9:0O:322:CYS:SG	9:0O:323:HIS:N	2.83	0.50
11:0U:61:TYR:CE1	11:0U:64:ALA:HB2	2.46	0.50
11:0U:212:HIS:O	11:0U:216:ILE:HG12	2.11	0.50
15:0f:127:THR:O	15:0f:131:GLN:HG3	2.12	0.50
16:0l:563:ILE:HG22	16:0l:568:LEU:HB2	1.93	0.50
17:0n:18:LYS:O	17:0n:21:GLN:HG3	2.12	0.50
17:0n:109:GLU:O	17:0n:112:ARG:HG3	2.11	0.50
17:0n:357:LYS:HA	17:0n:360:HIS:CD2	2.47	0.50
23:1B:203:ARG:HH22	45:2z:199:ARG:CZ	2.24	0.50
23:1E:255:LYS:HD2	45:2y:334:ARG:HH12	1.77	0.50
25:1O:430:GLU:OE1	25:1O:522:THR:OG1	2.29	0.50
27:1S:144:ILE:HG12	27:1S:155:ILE:HG12	1.94	0.50
27:1S:273:VAL:O	27:1S:277:ARG:HG2	2.11	0.50
27:1S:361:ASP:OD1	27:1S:362:MET:N	2.45	0.50
31:1r:175:LEU:HD13	22:1x:203:LEU:HD22	1.94	0.50
31:1s:35:ARG:HG2	31:1s:78:ARG:NH2	2.27	0.50
32:2C:215:HIS:CD2	32:2C:223:ILE:HG13	2.47	0.50
37:2S:113:CYS:SG	37:2S:144:VAL:HG11	2.52	0.50
44:2w:336:PHE:CD2	44:2w:338:ALA:HB2	2.47	0.50
49:3P:324:ARG:NH1	49:3P:447:GLU:OE2	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:3Q:194:PHE:HD1	49:3Q:222:HIS:HA	1.77	0.50
1:A:67:ASP:OD2	1:A:72:THR:HB	2.12	0.49
1:A:311:LEU:HD23	1:A:342:ILE:HD12	1.94	0.49
2:AA:268:VAL:HG21	2:AA:378:ILE:HD11	1.94	0.49
1:AD:318:ARG:HA	1:AD:354:CYS:O	2.12	0.49
2:AG:67:PHE:HB2	2:AG:92:LEU:HD12	1.94	0.49
1:AJ:289:LEU:O	1:AJ:293:MET:HG3	2.12	0.49
1:AJ:358:PRO:HG2	1:AJ:361:LEU:HD12	1.93	0.49
1:AN:131:GLN:HG2	1:AN:240:LEU:HD21	1.94	0.49
1:B:16:ILE:HD11	1:B:229:VAL:HG11	1.93	0.49
1:B:236:VAL:HG13	1:B:237:THR:HG23	1.94	0.49
1:BD:109:GLY:O	1:BD:113:ILE:HB	2.12	0.49
1:BD:392:LYS:HD2	1:BD:395:LEU:HD23	1.93	0.49
1:BF:92:PHE:CE2	26:1Q:219:ILE:HD13	2.47	0.49
1:BF:371:ASN:OD1	1:BF:372:THR:N	2.45	0.49
1:BH:2:ARG:HE	1:BH:2:ARG:HA	1.76	0.49
1:BH:85:PHE:HB3	1:BH:90:PHE:HE1	1.77	0.49
2:CB:44:VAL:HB	27:1S:308:PHE:HZ	1.77	0.49
1:CE:66:MET:SD	1:CE:151:LEU:HD22	2.52	0.49
1:CE:381:VAL:HG13	1:CE:415:MET:HE1	1.93	0.49
1:CK:310:TYR:HB2	1:CK:341:PHE:HD1	1.77	0.49
1:CM:226:ASN:ND2	69:CM:500:GDP:O6	2.32	0.49
1:DA:99:ASN:HD21	1:DA:178:THR:HG21	1.76	0.49
2:DB:122:ILE:HG21	2:DB:157:LEU:HD11	1.92	0.49
2:DH:192:HIS:NE2	2:DH:421:ALA:HA	2.26	0.49
2:DH:311:LYS:HE3	2:DH:344:VAL:HA	1.94	0.49
1:DM:296:ALA:HB3	1:DM:306:ARG:HH21	1.75	0.49
2:EA:431:ASP:OD1	2:EA:432:TYR:N	2.45	0.49
1:ED:1:MET:N	1:ED:3:GLU:OE2	2.45	0.49
1:ED:125:GLU:HG2	63:4I:314:LYS:HE3	1.93	0.49
1:ED:404:ASP:OD1	1:ED:405:GLU:N	2.45	0.49
2:EE:224:TYR:O	2:EE:228:ASN:ND2	2.45	0.49
2:EG:5:ILE:HG12	2:EG:132:LEU:HD13	1.93	0.49
1:EH:112:LEU:HD23	1:EH:147:MET:HE1	1.94	0.49
1:EH:239:CYS:HB3	1:EH:248:SER:H	1.77	0.49
2:EI:89:PRO:HB2	2:FI:280:LYS:HZ3	1.77	0.49
2:EK:3:GLU:HA	2:EK:51:THR:HA	1.93	0.49
1:EL:337:ASN:HB3	1:EL:340:TYR:CD2	2.40	0.49
1:F:135:LEU:HD13	1:F:152:ILE:HD11	1.93	0.49
1:FD:36:TYR:OH	1:FD:40:SER:O	2.30	0.49
1:FD:332:ASN:HB3	63:4I:312:ALA:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FI:89:PRO:HB3	59:4O:298:ILE:HG12	1.94	0.49
1:FJ:331:LEU:O	1:FJ:335:ASN:ND2	2.45	0.49
2:FK:142:GLY:HA2	2:FK:183:GLU:HG3	1.94	0.49
2:FK:155:GLU:HG2	2:FK:197:HIS:CE1	2.47	0.49
1:FL:2:ARG:N	1:FL:129:CYS:HG	2.10	0.49
2:GA:392:ASP:HB2	2:GA:422:ARG:NH1	2.27	0.49
1:GD:313:ALA:HB3	1:GD:349:ILE:HG12	1.93	0.49
1:GD:323:THR:HG1	2:GE:210:TYR:HH	1.58	0.49
1:GL:371:ASN:OD1	1:GL:372:THR:N	2.45	0.49
1:HD:207:LEU:HB3	1:HD:225:LEU:HD22	1.94	0.49
1:HF:313:ALA:O	1:HF:349:ILE:HA	2.12	0.49
1:HF:376:GLU:O	1:HF:380:ARG:HG2	2.12	0.49
2:HG:195:LEU:HD12	2:HG:264:ARG:HE	1.76	0.49
2:HK:318:MET:HE3	2:HK:318:MET:HA	1.93	0.49
1:I:91:ILE:HD13	1:I:116:VAL:HA	1.93	0.49
1:I:237:THR:HG22	1:I:250:LEU:HD21	1.94	0.49
1:I:324:LYS:O	1:I:328:GLU:HG3	2.12	0.49
2:IA:315:CYS:SG	2:IA:377:MET:HE1	2.52	0.49
2:IC:127:ASP:OD1	2:IC:128:ASN:N	2.45	0.49
2:IC:291:ILE:O	2:IC:295:VAL:HG23	2.12	0.49
2:IE:5:ILE:HD13	2:IE:64:ARG:HG2	1.94	0.49
2:IE:80:THR:HG22	19:0r:68:PRO:HG2	1.93	0.49
1:IF:185:THR:O	1:IF:189:VAL:HG13	2.11	0.49
2:IG:257:THR:HG1	1:IH:397:TRP:CD1	2.29	0.49
1:IJ:189:VAL:HG11	1:IJ:415:MET:SD	2.52	0.49
2:J:264:ARG:HH12	60:3r:33:TYR:HB2	1.77	0.49
1:JC:276:ARG:NH1	1:JC:279:GLN:OE1	2.45	0.49
2:JD:212:LEU:HD21	2:JD:275:VAL:HG11	1.94	0.49
2:JF:254:GLU:OE2	1:JG:99:ASN:HB2	2.11	0.49
1:JG:10:GLY:O	1:JG:14:ASN:ND2	2.39	0.49
2:JH:27:GLU:OE2	2:JH:236:SER:OG	2.27	0.49
2:JH:216:SER:OG	2:JH:275:VAL:O	2.28	0.49
2:JJ:214:ARG:NH2	2:JJ:220:GLU:O	2.42	0.49
1:JK:406:MET:HE3	1:NJ:306:ARG:HB2	1.94	0.49
2:JL:416:GLY:O	2:JL:419:SER:OG	2.26	0.49
1:JM:320:ARG:HH12	15:0g:49:THR:HA	1.77	0.49
2:JN:209:ILE:HG12	2:JN:302:LEU:HD12	1.93	0.49
2:K:254:GLU:OE2	1:KA:99:ASN:HB2	2.12	0.49
1:KA:404:ASP:OD1	1:KA:405:GLU:N	2.37	0.49
1:KE:199:SER:O	1:KE:265:PHE:HA	2.12	0.49
2:KF:237:SER:HA	2:KF:320:ARG:HD2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KF:328:VAL:O	2:KF:332:ILE:HG12	2.11	0.49
2:KH:224:TYR:O	2:KH:228:ASN:ND2	2.44	0.49
2:KJ:166:LYS:N	2:KJ:199:ASP:OD2	2.45	0.49
1:KK:392:LYS:HE2	1:KK:395:LEU:HD23	1.93	0.49
1:KM:253:LEU:HD11	1:KM:316:LEU:HD21	1.93	0.49
2:L:188:VAL:O	2:L:191:THR:HG22	2.12	0.49
2:LB:195:LEU:HD21	2:LB:264:ARG:HE	1.77	0.49
2:LB:237:SER:HA	2:LB:320:ARG:HD2	1.93	0.49
2:LD:326:LYS:HG2	15:0f:263:MET:HE3	1.93	0.49
2:LF:326:LYS:HB2	1:LG:220:PRO:HD2	1.94	0.49
2:LH:282:TYR:HD1	23:1E:186:ALA:HB1	1.77	0.49
1:LM:215:LEU:HB3	1:LM:217:LEU:HG	1.94	0.49
2:LN:11:GLN:NE2	2:LN:15:GLN:HE22	2.10	0.49
2:LN:195:LEU:HA	2:LN:266:HIS:HE1	1.76	0.49
2:LN:223:SER:OG	2:LN:224:TYR:N	2.45	0.49
1:LO:262:ARG:NH2	1:LO:414:ASN:OD1	2.44	0.49
2:MA:329:ASN:ND2	1:MB:208:TYR:CD2	2.78	0.49
2:MG:111:GLY:O	2:MG:115:VAL:HG13	2.11	0.49
2:MI:209:ILE:HG23	2:MI:230:LEU:HD23	1.92	0.49
2:MI:388:PHE:HA	2:MI:391:ILE:HG22	1.93	0.49
1:MN:11:GLN:HA	1:MN:72:THR:HG21	1.93	0.49
1:N:246:LEU:HB3	1:N:353:ILE:H	1.77	0.49
2:NC:195:LEU:HD11	2:NC:428:LEU:HD13	1.94	0.49
2:NC:269:LEU:HD11	2:NC:305:CYS:HB3	1.94	0.49
2:NE:291:ILE:O	2:NE:295:VAL:HG23	2.12	0.49
2:NE:373:ARG:HG2	2:NE:373:ARG:HH11	1.77	0.49
1:NL:173:PRO:HG2	1:NL:380:ARG:HH21	1.77	0.49
2:OA:259:LEU:HG	2:OA:378:ILE:HG22	1.93	0.49
1:OD:189:VAL:CG2	1:OD:415:MET:HE1	2.41	0.49
1:OD:280:GLN:HG2	1:OD:281:TYR:CD1	2.47	0.49
1:OD:309:ARG:H	1:OD:372:THR:HG1	1.55	0.49
1:OH:253:LEU:HD21	1:OH:316:LEU:HD21	1.93	0.49
2:OI:186:ASN:OD1	2:OI:408:TYR:OH	2.26	0.49
2:OM:70:LEU:HD12	2:OM:99:ALA:HB2	1.94	0.49
1:PB:186:THR:HG22	1:PB:415:MET:HE1	1.94	0.49
2:PM:70:LEU:HD21	2:PM:149:LEU:HD13	1.92	0.49
2:Q:122:ILE:HG21	2:Q:157:LEU:HD21	1.94	0.49
2:QB:238:LEU:HD11	2:QB:378:ILE:HD11	1.93	0.49
2:QB:273:ALA:HB3	2:QB:295:VAL:HG23	1.93	0.49
1:QC:301:GLN:NE2	1:QC:377:MET:HE3	2.26	0.49
1:QE:46:ARG:NH2	2:QF:76:ASP:OD2	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QF:205:ASP:CG	2:QF:304:LYS:H	2.20	0.49
2:QH:144:GLY:N	71:QH:501:GTP:O1B	2.45	0.49
2:QJ:179:THR:OG1	71:QJ:501:GTP:O3'	2.29	0.49
2:R:309:HIS:HA	57:3f:95:ASN:ND2	2.26	0.49
1:RA:51:PHE:O	1:RA:62:ARG:NH1	2.44	0.49
2:RB:60:LYS:HE2	2:SA:283:HIS:CD2	2.46	0.49
2:RB:237:SER:HA	2:RB:320:ARG:HD2	1.93	0.49
1:RC:272:PRO:HD3	1:RC:364:SER:HA	1.93	0.49
1:RE:371:ASN:OD1	1:RE:372:THR:N	2.45	0.49
2:RJ:21:TRP:CZ2	2:RJ:65:CYS:HB3	2.47	0.49
2:RJ:98:ASP:OD2	2:RJ:99:ALA:N	2.45	0.49
2:RJ:205:ASP:OD1	2:RJ:303:THR:HA	2.11	0.49
1:RK:265:PHE:HB3	1:RK:374:ILE:HD13	1.94	0.49
2:RL:332:ILE:HG23	2:RL:351:PHE:CE2	2.47	0.49
1:S:326:VAL:HG11	1:S:353:ILE:HD11	1.92	0.49
1:SB:34:GLY:HA3	1:SB:58:ARG:HG3	1.94	0.49
1:SD:10:GLY:O	1:SD:14:ASN:ND2	2.45	0.49
2:SI:116:ASP:OD2	61:3x:47:LEU:HG	2.11	0.49
2:TA:153:LEU:O	2:TA:157:LEU:HD23	2.12	0.49
2:TA:189:LEU:HD13	2:TA:413:MET:HE1	1.94	0.49
1:TF:318:ARG:HB3	1:TF:357:PRO:HA	1.94	0.49
2:TG:167:LEU:HD11	2:TG:252:LEU:HD22	1.93	0.49
1:TJ:131:GLN:HA	1:TJ:162:ARG:NH2	2.27	0.49
1:UF:198:GLU:HB2	1:UF:266:PHE:HE2	1.76	0.49
1:UF:378:PHE:HB3	1:UF:419:VAL:HG22	1.94	0.49
2:UG:26:LEU:HD12	2:UG:363:VAL:HG12	1.94	0.49
1:UH:326:VAL:O	1:UH:330:MET:HE3	2.12	0.49
1:UJ:83:GLN:O	1:VJ:281:TYR:OH	2.13	0.49
2:UK:395:PHE:HD2	2:UK:422:ARG:HD3	1.77	0.49
2:VA:254:GLU:O	2:VA:258:ASN:ND2	2.45	0.49
2:VC:27:GLU:OE1	2:VC:243:ARG:NH2	2.42	0.49
1:VD:32:PRO:HG3	1:VD:81:TYR:CE1	2.47	0.49
1:VD:66:MET:SD	1:VD:151:LEU:HD22	2.52	0.49
1:VH:161:ASP:O	1:VH:251:ARG:NH2	2.36	0.49
1:W:233:MET:O	1:W:236:VAL:HG12	2.11	0.49
2:WA:318:MET:O	2:WA:375:VAL:HA	2.11	0.49
1:WH:272:PRO:HD3	1:WH:364:SER:HA	1.94	0.49
1:WJ:144:GLY:N	69:WJ:500:GDP:O2B	2.36	0.49
1:WL:272:PRO:HD2	1:WL:361:LEU:HD23	1.93	0.49
1:WL:282:ARG:NH2	1:WL:292:GLN:OE1	2.44	0.49
2:WM:180:ALA:HB3	2:WM:183:GLU:HB2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:XF:90:GLU:OE2	3:XF:104:ARG:NH2	2.45	0.49
6:0A:257:SER:CB	22:1y:141:ALA:HB2	2.41	0.49
7:0D:361:GLU:HA	7:0D:364:ARG:HH12	1.76	0.49
9:0M:500:ARG:HE	9:0M:503:ILE:HB	1.77	0.49
9:0M:577:TRP:CD1	9:0M:584:CYS:HA	2.46	0.49
9:0N:173:VAL:HG12	9:0N:201:SER:HB2	1.92	0.49
9:0O:267:VAL:HG22	9:0O:287:VAL:HG21	1.94	0.49
16:0l:721:SER:O	16:0l:724:ARG:HG3	2.12	0.49
16:0k:798:HIS:ND1	16:0k:836:ASP:OD2	2.45	0.49
21:0w:79:GLN:O	21:0w:82:GLU:HB3	2.12	0.49
21:0w:371:LEU:O	21:0w:374:SER:OG	2.18	0.49
22:0z:243:VAL:HA	22:0z:246:ILE:HG22	1.94	0.49
25:1O:471:VAL:HG22	25:1O:474:ASP:HB2	1.93	0.49
27:1S:401:MET:HE3	27:1S:401:MET:HA	1.94	0.49
28:1b:146:LYS:HG2	28:1b:150:GLU:OE1	2.12	0.49
28:1g:241:VAL:HG13	28:1g:254:LEU:HD12	1.93	0.49
32:2B:131:LEU:HD11	32:2B:136:MET:SD	2.52	0.49
38:2U:257:VAL:O	38:2U:260:ILE:HG22	2.12	0.49
41:2b:281:ARG:HH12	41:2b:282:LYS:HZ2	1.58	0.49
41:2f:464:ARG:HG2	41:2f:464:ARG:HH11	1.76	0.49
41:2k:165:ARG:HD2	41:2k:165:ARG:N	2.28	0.49
49:3Q:396:MET:SD	49:3Q:480:SER:HB2	2.52	0.49
57:3g:107:GLN:HG2	57:3g:111:MET:HE2	1.94	0.49
64:5D:101:ILE:HG12	65:5I:90:LYS:HE3	1.93	0.49
65:5G:83:TYR:HD2	65:5G:84:GLN:HE21	1.58	0.49
66:5K:233:ARG:HB2	66:5K:255:ARG:HB2	1.94	0.49
66:5L:109:ASP:N	66:5L:109:ASP:OD1	2.44	0.49
1:AB:207:LEU:HB3	1:AB:225:LEU:HD22	1.93	0.49
2:AC:179:THR:OG1	71:AC:501:GTP:O3'	2.25	0.49
1:AJ:4:ILE:HD11	1:AJ:240:LEU:HD22	1.92	0.49
2:AK:203:MET:N	2:AK:203:MET:SD	2.85	0.49
1:AL:209:ASP:OD1	1:AL:213:ARG:NH1	2.44	0.49
1:AL:281:TYR:HB3	1:ML:86:ARG:HG3	1.92	0.49
2:BA:311:LYS:NZ	2:BA:342:GLN:HG3	2.27	0.49
1:BD:327:ASP:OD1	1:BD:328:GLU:N	2.45	0.49
2:BI:301:MET:HG3	2:BI:303:THR:H	1.77	0.49
1:BJ:173:PRO:HA	1:BJ:176:SER:HB2	1.94	0.49
1:BJ:185:THR:O	1:BJ:189:VAL:HG13	2.11	0.49
2:BK:194:LEU:HD21	2:BK:201:ALA:HB2	1.95	0.49
2:CB:103:TYR:HB3	2:CB:408:TYR:HE1	1.76	0.49
1:CG:346:PRO:HG2	2:CH:394:LYS:HZ3	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CH:6:CYS:HA	2:CH:136:MET:HB3	1.93	0.49
1:CK:3:GLU:OE2	1:CK:129:CYS:N	2.46	0.49
1:CM:41:ASP:OD1	1:CM:42:LEU:N	2.45	0.49
2:D:346:TRP:CD1	1:DA:391:ARG:HD2	2.47	0.49
1:DA:150:LEU:O	1:DA:154:LYS:HG2	2.12	0.49
2:DJ:123:ARG:NH2	2:DJ:160:ASP:OD2	2.44	0.49
2:DJ:295:VAL:HG21	2:DJ:375:VAL:HG13	1.94	0.49
1:DM:161:ASP:OD2	1:DM:162:ARG:NH1	2.45	0.49
1:EF:322:SER:OG	2:EG:222:PRO:O	2.29	0.49
2:EG:286:LEU:O	2:EG:373:ARG:NH1	2.43	0.49
1:EH:207:LEU:HB3	1:EH:225:LEU:HD11	1.93	0.49
2:EK:319:TYR:HB3	2:EK:323:VAL:HG21	1.93	0.49
2:FE:349:THR:OG1	2:FE:350:GLY:N	2.43	0.49
1:FF:267:MET:HB2	1:FF:301:GLN:HB3	1.94	0.49
2:FG:308:ARG:HD3	63:4I:250:GLY:O	2.12	0.49
1:FH:46:ARG:HH21	2:FI:73:THR:HA	1.77	0.49
2:FI:79:ARG:HG2	2:FI:92:LEU:HD23	1.92	0.49
1:G:377:MET:HA	1:G:380:ARG:HG2	1.94	0.49
2:GC:70:LEU:HD12	2:GC:99:ALA:HB2	1.93	0.49
2:GC:237:SER:HA	2:GC:320:ARG:HD2	1.92	0.49
2:GI:388:PHE:HA	2:GI:391:ILE:HG22	1.93	0.49
2:GK:115:VAL:HG21	2:GK:152:LEU:HD23	1.94	0.49
1:GL:198:GLU:HB2	1:GL:266:PHE:HE2	1.76	0.49
1:GL:328:GLU:N	1:GL:328:GLU:OE1	2.45	0.49
1:HH:232:VAL:HG23	1:HH:366:THR:OG1	2.12	0.49
1:HJ:67:ASP:OD1	1:HJ:68:LEU:N	2.44	0.49
2:HK:278:ALA:HA	2:HK:369:ALA:HB2	1.94	0.49
1:HL:268:MET:HE3	1:HL:300:MET:SD	2.53	0.49
1:ID:323:THR:HA	1:ID:326:VAL:HG12	1.93	0.49
2:IG:167:LEU:HD11	2:IG:255:PHE:HZ	1.77	0.49
2:II:251:ASP:H	2:II:254:GLU:CG	2.25	0.49
1:IL:133:PHE:HB2	1:IL:164:MET:SD	2.52	0.49
1:IL:318:ARG:HB3	1:IL:357:PRO:HA	1.94	0.49
2:IM:67:PHE:HB2	2:IM:92:LEU:HD13	1.93	0.49
2:IM:271:SER:OG	2:IM:377:MET:HB2	2.13	0.49
1:JC:213:ARG:HH12	1:JC:297:LYS:CB	2.24	0.49
2:JL:209:ILE:HG23	2:JL:230:LEU:HD23	1.94	0.49
2:JL:223:SER:OG	2:JL:224:TYR:N	2.43	0.49
2:JL:260:VAL:HB	1:JM:397:TRP:HZ2	1.77	0.49
2:K:144:GLY:N	71:K:501:GTP:O1G	2.34	0.49
1:KI:185:THR:O	1:KI:189:VAL:HG22	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KN:174:SER:OG	2:KN:206:ASN:HB2	2.11	0.49
2:KN:297:GLU:HG3	2:KN:299:ALA:H	1.77	0.49
1:LG:58:ARG:NH2	23:1A:93:LEU:HD22	2.27	0.49
1:LG:74:ASP:O	25:1O:46:ASN:ND2	2.44	0.49
2:LJ:237:SER:HA	2:LJ:320:ARG:HH11	1.76	0.49
2:LL:271:SER:OG	2:LL:295:VAL:HG13	2.13	0.49
1:LM:7:CYS:O	1:LM:135:LEU:HA	2.12	0.49
2:LN:431:ASP:OD1	22:1y:143:GLY:HA3	2.12	0.49
1:LO:12:CYS:HB2	69:LO:500:GDP:C8	2.47	0.49
1:M:337:ASN:HB3	1:M:340:TYR:HD2	1.76	0.49
1:MB:295:ASP:OD2	1:MB:297:LYS:HG2	2.11	0.49
2:MC:75:VAL:HG21	2:MC:94:SER:HB2	1.94	0.49
2:MI:155:GLU:HG2	2:MI:197:HIS:CE1	2.46	0.49
2:MI:406:HIS:HA	2:MI:409:VAL:HG12	1.93	0.49
2:MM:21:TRP:CZ2	2:MM:65:CYS:HB3	2.46	0.49
2:MM:209:ILE:HG21	2:MM:227:VAL:HG13	1.93	0.49
1:MN:262:ARG:NH2	1:MN:414:ASN:OD1	2.44	0.49
1:ND:33:THR:HG23	1:ND:35:THR:HG22	1.94	0.49
1:ND:46:ARG:NH2	2:NE:76:ASP:OD2	2.45	0.49
2:NG:158:SER:HB3	2:NG:166:LYS:HE3	1.94	0.49
1:NH:257:LEU:HD21	1:NH:314:SER:HB3	1.94	0.49
1:NH:321:MET:HB3	1:NH:363:MET:HE2	1.94	0.49
1:NL:389:PHE:CE1	1:NL:395:LEU:HD21	2.44	0.49
1:O:421:GLU:HA	1:O:424:GLN:HE21	1.77	0.49
1:OB:289:LEU:HD12	1:OB:365:VAL:HG12	1.94	0.49
2:OE:75:VAL:HG11	2:OE:94:SER:HB2	1.93	0.49
2:OE:98:ASP:OD1	2:OE:99:ALA:N	2.46	0.49
1:OH:139:LEU:HG	1:OH:168:SER:HB2	1.93	0.49
1:OJ:91:ILE:HD11	1:OJ:119:VAL:HG21	1.93	0.49
1:OJ:253:LEU:HD21	1:OJ:316:LEU:HD11	1.94	0.49
1:OL:268:MET:O	1:OL:300:MET:HG2	2.12	0.49
1:OL:386:THR:HB	1:OL:390:ARG:NH1	2.27	0.49
2:PA:431:ASP:O	2:PA:435:VAL:HG13	2.12	0.49
1:PB:377:MET:HE2	1:PB:380:ARG:NH2	2.27	0.49
2:PE:361:THR:HG22	28:1d:166:PRO:HD2	1.93	0.49
1:PF:122:LYS:NZ	1:QE:291:GLN:HG2	2.26	0.49
2:PG:228:ASN:OD1	71:PG:501:GTP:N1	2.37	0.49
2:PI:271:SER:OG	2:PI:377:MET:HE2	2.12	0.49
2:PK:422:ARG:NH1	2:PK:422:ARG:O	2.45	0.49
2:PM:123:ARG:HH22	59:4b:114:ARG:HH12	1.59	0.49
1:QA:176:SER:OG	1:QA:181:GLU:OE2	2.20	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QL:340:THR:HG23	2:QL:341:ILE:HG23	1.93	0.49
2:RF:262:TYR:HB2	2:RF:265:ILE:HG12	1.95	0.49
1:RG:119:VAL:HA	1:RG:122:LYS:HD3	1.94	0.49
1:RI:4:ILE:HG22	1:RI:131:GLN:HB3	1.93	0.49
2:RJ:27:GLU:OE1	2:RJ:243:ARG:NH2	2.37	0.49
1:S:293:MET:HE1	1:S:365:VAL:HG13	1.93	0.49
1:SB:345:ILE:O	1:SB:348:ASN:ND2	2.41	0.49
1:SD:101:TRP:HB3	1:SD:398:TYR:HE2	1.77	0.49
2:SK:57:GLY:O	21:0x:466:ALA:HB1	2.11	0.49
2:SK:91:GLN:H	2:SK:121:ARG:NH1	2.10	0.49
2:TA:116:ASP:N	2:TA:116:ASP:OD1	2.44	0.49
2:TA:387:VAL:O	2:TA:391:ILE:HG12	2.12	0.49
2:TC:235:VAL:O	2:TC:239:THR:HG22	2.12	0.49
1:TD:246:LEU:HD13	2:TE:179:THR:HG21	1.94	0.49
2:TG:195:LEU:HA	2:TG:266:HIS:CE1	2.47	0.49
1:TH:117:LEU:HB3	1:TH:121:ARG:NH2	2.27	0.49
1:TH:280:GLN:HB3	21:0w:195:PHE:HE2	1.76	0.49
1:TJ:337:ASN:ND2	61:3x:81:VAL:CG2	2.74	0.49
1:TL:226:ASN:OD1	69:TL:500:GDP:N1	2.44	0.49
1:TL:287:ALA:HB1	1:TL:291:GLN:HE22	1.77	0.49
1:U:58:ARG:HH11	1:V:281:TYR:HE2	1.59	0.49
1:U:311:LEU:O	1:U:348:ASN:ND2	2.45	0.49
1:UB:206:ALA:O	1:UB:210:ILE:HG12	2.11	0.49
1:UH:167:PHE:CZ	1:UH:233:MET:HG2	2.47	0.49
2:UK:326:LYS:HZ1	1:UL:220:PRO:HD2	1.75	0.49
1:V:133:PHE:HB2	1:V:164:MET:HG2	1.93	0.49
1:V:141:GLY:O	1:V:145:SER:OG	2.24	0.49
1:VB:3:GLU:O	1:VB:131:GLN:N	2.45	0.49
2:VC:336:LYS:HE3	2:VC:351:PHE:HE2	1.77	0.49
1:VH:316:LEU:HD23	1:VH:352:SER:HB2	1.93	0.49
2:VI:172:TYR:HD2	2:VI:203:MET:HE3	1.77	0.49
2:VM:27:GLU:OE1	2:VM:243:ARG:NH2	2.37	0.49
2:VM:307:PRO:HB3	2:VM:312:TYR:CE1	2.47	0.49
1:W:32:PRO:HG3	1:W:81:TYR:CE1	2.47	0.49
2:WA:122:ILE:HG21	2:WA:157:LEU:HD11	1.93	0.49
1:WB:248:SER:HA	1:WB:252:LYS:HG3	1.94	0.49
2:WC:3:GLU:OE2	2:WC:130:THR:N	2.45	0.49
1:WD:5:VAL:HG12	1:WD:130:LEU:HD11	1.94	0.49
1:WD:19:LYS:HD2	1:WD:22:GLU:OE1	2.12	0.49
1:WD:61:PRO:HD3	1:WD:84:LEU:HG	1.94	0.49
2:WE:271:SER:OG	2:WE:377:MET:HB3	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:XE:104:ARG:HB2	3:XE:118:ILE:HD11	1.93	0.49
6:0A:154:LYS:HZ1	14:0d:221:VAL:HG22	1.77	0.49
8:0J:452:GLU:OE1	39:2X:316:MET:HG2	2.12	0.49
9:0L:60:HIS:ND1	9:0L:80:GLN:OE1	2.33	0.49
11:0U:94:CYS:HB2	11:0U:158:VAL:HG21	1.94	0.49
13:0Z:176:PRO:HG2	13:0Z:179:ILE:HD12	1.94	0.49
17:0n:251:LYS:HD2	17:0n:254:ILE:HD12	1.94	0.49
20:0u:113:VAL:CG1	20:0u:144:MET:HB2	2.43	0.49
21:0x:527:ARG:HA	21:0x:530:ILE:HG12	1.94	0.49
22:0z:148:PHE:HB3	48:3H:59:ALA:HA	1.93	0.49
24:1J:27:MET:HA	24:1J:27:MET:HE3	1.94	0.49
27:1T:791:ILE:HA	27:1T:795:LEU:HB2	1.94	0.49
22:1x:68:TYR:HA	48:3G:47:TYR:CE2	2.47	0.49
35:2O:27:HIS:C	51:X1:196:ARG:HH22	2.20	0.49
36:2Q:26:SER:O	36:2Q:30:VAL:HG23	2.12	0.49
36:2Q:220:ASP:OD1	36:2Q:235:GLY:N	2.44	0.49
42:2r:49:GLU:HB3	42:2r:104:ILE:HD11	1.93	0.49
46:3B:111:SER:HA	46:3B:114:TYR:CE1	2.46	0.49
48:3H:86:LYS:NZ	48:3H:90:LEU:HD11	2.27	0.49
64:5D:97:LEU:HD21	65:5I:87:LYS:HG3	1.94	0.49
65:5G:83:TYR:HD2	65:5G:84:GLN:NE2	2.10	0.49
66:5L:92:ASP:N	66:5L:92:ASP:OD1	2.46	0.49
1:A:174:ARG:H	1:A:380:ARG:HH22	1.60	0.49
1:A:239:CYS:HB3	1:A:248:SER:H	1.78	0.49
1:A:256:ASN:O	1:A:312:THR:HG21	2.12	0.49
1:AD:267:MET:SD	1:AD:371:ASN:HB3	2.52	0.49
1:AF:208:TYR:CE1	1:AF:225:LEU:HD11	2.47	0.49
2:AK:211:ASP:O	2:AK:214:ARG:HG3	2.11	0.49
1:AL:48:ASN:O	1:AL:62:ARG:NH1	2.39	0.49
1:AL:86:ARG:HG2	1:BL:281:TYR:HB3	1.94	0.49
2:AM:21:TRP:CZ2	2:AM:65:CYS:HB3	2.47	0.49
2:BA:394:LYS:HD2	2:BA:397:LEU:HD11	1.93	0.49
2:BC:27:GLU:OE1	2:BC:243:ARG:NH2	2.45	0.49
1:BD:256:ASN:O	1:BD:312:THR:HG21	2.12	0.49
2:BG:79:ARG:O	2:BG:84:ARG:HG2	2.13	0.49
2:BK:1:MET:HG3	2:BK:2:ARG:HG3	1.93	0.49
1:BL:133:PHE:HB2	1:BL:164:MET:SD	2.52	0.49
2:BM:88:ASN:HB2	2:BM:91:GLN:NE2	2.27	0.49
2:BM:312:TYR:HD1	2:BM:381:SER:HB3	1.77	0.49
2:CD:49:PHE:HD2	2:CD:53:PHE:HB2	1.78	0.49
1:CE:156:ARG:HH21	1:CE:164:MET:HB2	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CE:268:MET:HE1	1:CE:368:ILE:HG23	1.95	0.49
2:D:437:ALA:O	1:DA:391:ARG:NH2	2.46	0.49
2:DH:250:VAL:HG11	2:DH:352:LYS:HE2	1.94	0.49
2:DH:271:SER:HB3	2:DH:301:MET:SD	2.52	0.49
1:DI:31:ASP:OD2	1:DI:35:THR:OG1	2.29	0.49
1:EB:163:ILE:O	1:EB:164:MET:HE2	2.12	0.49
2:EE:296:PHE:CZ	2:EE:377:MET:HE1	2.46	0.49
1:EF:31:ASP:OD2	1:EF:35:THR:OG1	2.29	0.49
1:EF:167:PHE:CG	1:EF:233:MET:HE2	2.47	0.49
2:EG:343:PHE:CZ	2:EG:351:PHE:HE1	2.30	0.49
1:EJ:323:THR:HG21	2:EK:224:TYR:CE1	2.46	0.49
1:FH:8:GLN:HG2	1:FH:17:GLY:HA3	1.94	0.49
1:FL:323:THR:HA	1:FL:326:VAL:HG22	1.94	0.49
1:GB:332:ASN:HD21	59:4O:142:ASN:HB2	1.77	0.49
2:GC:171:VAL:HG12	2:GC:204:LEU:HB2	1.93	0.49
1:GJ:286:VAL:HG22	1:GJ:321:MET:HE3	1.94	0.49
1:GL:336:LYS:HB2	59:4P:89:ARG:NH2	2.27	0.49
2:HC:156:ARG:HA	2:HC:159:VAL:HG12	1.94	0.49
2:HC:158:SER:HB2	2:HC:197:HIS:HD2	1.78	0.49
2:HC:241:SER:HG	2:HC:250:VAL:H	1.57	0.49
2:HC:254:GLU:HA	1:HD:98:GLY:HA2	1.94	0.49
1:HD:379:ARG:HG3	1:HD:379:ARG:HH11	1.76	0.49
1:HH:292:GLN:HG2	1:HH:298:ASN:ND2	2.27	0.49
2:HI:67:PHE:HB2	2:HI:92:LEU:HD12	1.93	0.49
2:HI:205:ASP:OD1	2:HI:303:THR:HA	2.11	0.49
1:HJ:156:ARG:HE	1:HJ:164:MET:HE2	1.76	0.49
2:HK:229:ARG:HH11	2:HK:363:VAL:HG21	1.78	0.49
1:I:175:VAL:O	1:I:175:VAL:HG12	2.12	0.49
1:IB:253:LEU:HD21	1:IB:316:LEU:HD21	1.95	0.49
2:IC:122:ILE:HG21	2:IC:157:LEU:HD11	1.94	0.49
2:IE:265:ILE:HG21	2:IE:313:MET:HE1	1.94	0.49
2:IE:332:ILE:O	2:IE:336:LYS:HG2	2.13	0.49
1:IF:322:SER:OG	2:IG:222:PRO:O	2.30	0.49
1:IF:375:GLN:HB3	1:IF:422:TYR:HB2	1.94	0.49
1:IH:324:LYS:HG3	2:II:210:TYR:CG	2.47	0.49
2:IK:3:GLU:HG3	2:IK:129:CYS:HB2	1.94	0.49
2:IK:311:LYS:HZ1	2:IK:344:VAL:HA	1.78	0.49
1:IL:2:ARG:HG3	1:IL:240:LEU:HD22	1.95	0.49
1:IL:43:GLN:HE21	38:2V:92:TRP:HZ3	1.60	0.49
2:IM:11:GLN:HE21	2:IM:15:GLN:HE22	1.59	0.49
2:J:11:GLN:HE21	2:J:15:GLN:HE22	1.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JE:322:SER:HA	2:JF:223:SER:HB2	1.95	0.49
2:JH:103:TYR:CD2	2:JH:413:MET:HE1	2.45	0.49
2:JJ:257:THR:HG1	1:JK:397:TRP:CD1	2.30	0.49
2:JL:331:ALA:O	2:JL:335:ILE:HG12	2.13	0.49
1:JM:109:GLY:HA2	1:JM:147:MET:HE2	1.93	0.49
2:JN:88:ASN:OD1	2:JN:89:PRO:HD2	2.12	0.49
2:JN:240:ALA:O	2:JN:356:ASN:ND2	2.45	0.49
2:K:79:ARG:HG3	2:K:92:LEU:HD23	1.93	0.49
1:KA:344:TRP:HB3	1:KA:430:VAL:HG12	1.93	0.49
1:KC:139:LEU:HD12	1:KC:170:ILE:HD13	1.94	0.49
1:KE:135:LEU:HB3	1:KE:166:THR:HG22	1.94	0.49
2:KJ:79:ARG:NH2	2:KJ:94:SER:OG	2.41	0.49
2:KJ:259:LEU:HG	2:KJ:268:VAL:HG11	1.93	0.49
2:KN:116:ASP:OD1	2:KN:117:LEU:N	2.46	0.49
2:LB:1:MET:HG3	2:LB:131:GLY:HA3	1.93	0.49
2:LB:247:ALA:HB3	2:LB:355:ILE:HB	1.94	0.49
1:LC:119:VAL:O	1:LC:122:LYS:HB3	2.10	0.49
1:LG:45:GLU:OE1	1:LG:46:ARG:HG2	2.12	0.49
2:LJ:195:LEU:HA	2:LJ:266:HIS:CE1	2.47	0.49
2:LL:167:LEU:HD23	2:LL:200:VAL:HB	1.95	0.49
1:M:149:THR:HA	1:M:152:ILE:HG22	1.95	0.49
2:ME:36:MET:HG3	2:ME:61:HIS:CD2	2.48	0.49
2:ME:396:ASP:OD2	2:ME:422:ARG:NE	2.45	0.49
2:MG:358:GLN:NE2	40:2Z:313:SER:OG	2.45	0.49
1:MH:311:LEU:N	1:MH:370:ASN:O	2.46	0.49
2:MI:181:VAL:HG22	2:MI:398:MET:HE1	1.93	0.49
2:MK:319:TYR:HB3	2:MK:323:VAL:HG21	1.94	0.49
1:ML:305:PRO:HA	1:ML:373:CYS:SG	2.52	0.49
1:MN:164:MET:N	1:MN:197:ASP:OD2	2.41	0.49
1:MN:278:SER:O	1:MN:282:ARG:HB2	2.12	0.49
1:N:163:ILE:HG21	1:N:250:LEU:HB3	1.95	0.49
2:NC:90:GLU:O	2:NC:91:GLN:HG2	2.12	0.49
2:NE:258:ASN:OD1	2:NE:352:LYS:NZ	2.45	0.49
1:NF:63:ALA:O	1:NF:89:ASN:ND2	2.29	0.49
1:NF:257:LEU:HD13	1:NF:368:ILE:HG21	1.92	0.49
2:OC:406:HIS:HA	2:OC:409:VAL:HG22	1.94	0.49
2:OI:319:TYR:CD1	2:OI:323:VAL:HG11	2.47	0.49
1:OJ:257:LEU:HB3	1:OJ:266:PHE:HE1	1.77	0.49
1:OJ:404:ASP:OD1	1:OJ:405:GLU:N	2.46	0.49
1:OL:254:ALA:O	1:OL:258:VAL:HG22	2.12	0.49
1:P:198:GLU:HB2	1:P:266:PHE:HE2	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PC:175:PRO:HG3	2:PC:390:ARG:NH1	2.26	0.49
1:PF:62:ARG:NH1	1:PF:127:CYS:SG	2.85	0.49
1:PF:371:ASN:OD1	1:PF:372:THR:N	2.44	0.49
2:PG:69:ASP:OD1	2:PG:70:LEU:N	2.45	0.49
2:PI:241:SER:OG	2:PI:250:VAL:O	2.29	0.49
2:PK:21:TRP:CZ2	2:PK:65:CYS:HB3	2.47	0.49
1:PL:290:THR:HG23	1:PL:293:MET:HE2	1.94	0.49
1:QC:63:ALA:O	1:QC:89:ASN:ND2	2.46	0.49
1:QE:36:TYR:CE2	1:QE:44:LEU:HG	2.47	0.49
1:QI:91:ILE:HD11	1:QI:119:VAL:HG21	1.94	0.49
2:QL:212:LEU:HD21	2:QL:275:VAL:HG11	1.92	0.49
2:R:237:SER:HA	2:R:320:ARG:HD2	1.95	0.49
1:RA:388:MET:HE3	1:RA:393:ALA:HB3	1.94	0.49
1:RC:27:GLU:O	28:1X:215:ARG:NH2	2.45	0.49
1:RC:172:SER:OG	1:RC:205:GLU:OE1	2.23	0.49
1:RG:165:MET:HG2	1:RG:198:GLU:HG3	1.93	0.49
1:RG:171:PRO:HG3	1:RG:181:GLU:HG3	1.93	0.49
2:RH:81:GLY:O	2:RH:84:ARG:HG3	2.12	0.49
2:RJ:237:SER:HA	2:RJ:320:ARG:HD2	1.93	0.49
1:S:248:SER:HA	1:S:252:LYS:HD3	1.94	0.49
2:SA:235:VAL:O	2:SA:239:THR:HG22	2.12	0.49
1:TB:234:SER:C	1:TB:241:ARG:HH22	2.20	0.49
2:TC:207:GLU:HB3	2:TC:304:LYS:HD3	1.94	0.49
1:TH:133:PHE:HD2	1:TH:164:MET:HE1	1.77	0.49
2:TK:196:GLU:HG3	2:TK:197:HIS:CD2	2.47	0.49
1:TL:161:ASP:OD1	1:TL:162:ARG:NH2	2.45	0.49
1:TL:268:MET:SD	1:TL:368:ILE:HG22	2.52	0.49
1:U:182:PRO:O	1:U:186:THR:HG23	2.13	0.49
2:UC:79:ARG:HH22	2:UC:94:SER:HB3	1.77	0.49
1:UD:22:GLU:HG2	1:UD:81:TYR:CD1	2.47	0.49
1:UD:42:LEU:HD22	1:UD:356:ILE:HD11	1.94	0.49
1:UH:257:LEU:HD21	1:UH:314:SER:HB2	1.93	0.49
1:UH:311:LEU:HD23	1:UH:342:ILE:HD12	1.94	0.49
2:UK:316:CYS:HA	2:UK:352:LYS:O	2.13	0.49
1:V:284:LEU:HD23	1:V:362:LYS:HB3	1.95	0.49
2:VG:252:LEU:HA	2:VG:255:PHE:CE1	2.47	0.49
2:VG:427:ALA:HA	2:VG:430:LYS:HE3	1.93	0.49
2:VI:3:GLU:HA	2:VI:51:THR:HA	1.93	0.49
1:VL:31:ASP:OD1	1:VL:35:THR:N	2.45	0.49
1:VL:91:ILE:HD11	1:VL:119:VAL:HG21	1.94	0.49
1:VL:255:VAL:HG11	2:VM:100:ALA:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VL:399:THR:HA	1:VL:403:MET:O	2.13	0.49
2:WA:257:THR:HG21	1:WB:98:GLY:O	2.12	0.49
1:WB:312:THR:HG21	2:WC:404:PHE:HZ	1.77	0.49
1:WL:28:HIS:NE2	1:WL:241:ARG:HD2	2.27	0.49
3:XA:90:GLU:HB2	3:XA:155:GLN:HB3	1.94	0.49
4:XQ:195:THR:O	4:XQ:199:LEU:HG	2.12	0.49
7:0D:46:THR:HG1	7:0D:51:ARG:HE	1.60	0.49
7:0D:219:ASP:O	7:0D:223:ILE:HG12	2.11	0.49
8:0I:260:ILE:HD13	8:0I:263:LYS:NZ	2.27	0.49
9:0L:202:VAL:HG13	9:0L:216:CYS:HB2	1.93	0.49
9:0M:330:ILE:HD11	9:0M:340:PHE:HD2	1.77	0.49
9:0N:228:LEU:HA	9:0N:232:ASN:H	1.77	0.49
10:0S:343:LYS:HA	10:0S:346:ARG:HG2	1.93	0.49
12:0W:31:TYR:HD1	12:0W:38:VAL:HG12	1.77	0.49
14:0c:303:GLU:O	14:0c:307:MET:HG2	2.13	0.49
14:0d:24:ILE:O	14:0d:25:PHE:HB2	2.12	0.49
16:0k:403:LEU:O	16:0k:407:VAL:HG23	2.13	0.49
17:0n:384:LYS:O	17:0n:387:GLU:HG3	2.13	0.49
18:0p:267:LEU:HB2	49:3Q:29:LEU:HD11	1.93	0.49
19:0r:304:TYR:HB3	23:1A:59:LYS:HG2	1.95	0.49
20:0u:113:VAL:HG13	20:0u:144:MET:HB2	1.93	0.49
21:0w:222:ASN:O	21:0w:226:GLU:HG2	2.12	0.49
23:1D:79:ARG:O	23:1D:82:LYS:HG3	2.12	0.49
23:1E:134:ASP:OD1	23:1E:135:LEU:HG	2.13	0.49
24:1H:647:ARG:HH21	24:1H:648:MET:HE2	1.77	0.49
24:1K:122:PHE:HD2	24:1K:129:MET:HE1	1.77	0.49
27:1T:675:PHE:HA	27:1T:678:ILE:HG22	1.94	0.49
28:1a:251:HIS:HD2	28:1b:30:CYS:SG	2.35	0.49
40:2Z:51:ARG:HH12	40:2Z:65:VAL:HG12	1.78	0.49
41:2o:287:GLN:O	41:2o:291:VAL:HG23	2.11	0.49
43:2t:276:GLU:OE2	43:2t:282:ARG:NE	2.45	0.49
44:2w:22:LEU:HD12	44:2w:142:LEU:HD22	1.95	0.49
49:3Q:314:ILE:HD11	49:3Q:367:GLU:HG2	1.94	0.49
57:3f:21:GLU:O	57:3f:25:GLN:HG2	2.12	0.49
60:3s:73:VAL:HA	60:3s:76:MET:HE2	1.94	0.49
63:4I:300:ALA:HA	63:4I:303:LYS:HD2	1.94	0.49
67:5O:102:VAL:O	67:5O:102:VAL:HG12	2.12	0.49
1:AF:226:ASN:OD1	69:AF:500:GDP:N1	2.44	0.49
2:AG:276:VAL:HG13	2:AG:280:LYS:HB2	1.94	0.49
2:AG:319:TYR:HB3	2:AG:323:VAL:HG21	1.94	0.49
1:AH:326:VAL:HG11	1:AH:353:ILE:HD11	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:204:ASN:OD1	69:AJ:500:GDP:O2'	2.31	0.49
2:AK:219:ILE:HG12	2:AK:222:PRO:HD3	1.94	0.49
1:AL:311:LEU:HB2	1:AL:370:ASN:O	2.13	0.49
1:B:316:LEU:HB2	1:B:366:THR:CG2	2.42	0.49
2:BC:60:LYS:HE2	2:CB:282:TYR:HD1	1.75	0.49
1:BD:167:PHE:CZ	1:BD:233:MET:HG2	2.47	0.49
1:BD:379:ARG:O	1:BD:382:GLY:N	2.45	0.49
1:BD:385:PHE:CE2	1:BD:412:GLU:HB2	2.47	0.49
2:BE:187:CYS:O	2:BE:191:THR:HG23	2.11	0.49
1:BH:293:MET:HE1	1:BH:330:MET:HE1	1.94	0.49
1:BJ:230:ALA:HA	1:BJ:233:MET:SD	2.53	0.49
1:BL:134:GLN:NE2	1:BL:233:MET:HE3	2.27	0.49
2:C:260:VAL:HB	1:CA:397:TRP:CH2	2.48	0.49
2:CB:335:ILE:HG23	2:CB:341:ILE:HD11	1.94	0.49
2:CD:269:LEU:HD11	2:CD:305:CYS:HB2	1.95	0.49
2:CD:293:ASN:O	2:CD:297:GLU:HG2	2.13	0.49
1:CK:233:MET:O	1:CK:236:VAL:HG12	2.12	0.49
1:CK:312:THR:HA	1:CK:348:ASN:HB3	1.94	0.49
1:DA:41:ASP:O	1:DA:45:GLU:HG3	2.12	0.49
2:DD:138:PHE:HE2	2:DD:235:VAL:HG21	1.77	0.49
2:DJ:167:LEU:HD23	2:DJ:200:VAL:HB	1.95	0.49
1:DK:165:MET:HG2	1:DK:198:GLU:OE2	2.12	0.49
1:DM:311:LEU:HA	1:DM:342:ILE:CD1	2.42	0.49
1:EF:257:LEU:HD11	1:EF:314:SER:HB2	1.94	0.49
2:EG:328:VAL:HG21	2:EG:355:ILE:HD11	1.94	0.49
1:EH:102:ALA:HB2	1:EH:403:MET:HE2	1.94	0.49
1:EH:293:MET:HG3	1:EH:367:PHE:HB2	1.94	0.49
2:EI:367:ASP:N	2:EI:367:ASP:OD1	2.42	0.49
1:EJ:67:ASP:OD2	1:EJ:72:THR:OG1	2.30	0.49
1:EL:36:TYR:OH	1:EL:40:SER:O	2.30	0.49
1:FB:158:GLU:HG3	1:FB:159:TYR:CD2	2.47	0.49
2:FE:365:GLY:H	28:4W:88:LYS:HD2	1.77	0.49
1:FF:20:PHE:HA	1:FF:230:ALA:HB1	1.94	0.49
2:FI:71:GLU:OE1	2:FI:73:THR:HG22	2.12	0.49
2:FK:317:LEU:O	2:FK:353:CYS:HA	2.11	0.49
2:GC:225:THR:HG21	38:2U:325:MET:SD	2.52	0.49
2:GC:358:GLN:NE2	2:GC:359:PRO:O	2.45	0.49
2:GE:174:SER:CB	2:GE:207:GLU:HG3	2.43	0.49
1:GF:345:ILE:O	1:GF:348:ASN:ND2	2.46	0.49
1:GH:46:ARG:NH2	2:GI:76:ASP:OD2	2.45	0.49
1:GH:286:VAL:HG11	1:GH:325:GLU:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:253:LEU:O	1:H:257:LEU:HB2	2.12	0.49
1:H:263:LEU:HD13	1:H:311:LEU:HD13	1.95	0.49
1:HD:167:PHE:CE2	1:HD:233:MET:HG2	2.47	0.49
2:HE:387:VAL:O	2:HE:391:ILE:HG12	2.13	0.49
1:HF:374:ILE:HA	1:HF:377:MET:HE1	1.95	0.49
1:HH:12:CYS:O	1:HH:16:ILE:HG12	2.11	0.49
2:HI:387:VAL:O	2:HI:391:ILE:HG12	2.11	0.49
2:HK:224:TYR:HE2	71:HK:501:GTP:C4	2.30	0.49
1:HL:182:PRO:O	1:HL:186:THR:HG23	2.13	0.49
2:HM:11:GLN:HE21	2:HM:15:GLN:HE21	1.60	0.49
1:IF:311:LEU:HD23	1:IF:342:ILE:HG21	1.95	0.49
1:IJ:271:ALA:HB1	1:IJ:292:GLN:NE2	2.27	0.49
1:IJ:272:PRO:HA	1:IJ:292:GLN:HE22	1.77	0.49
2:IK:287:SER:O	2:IK:291:ILE:HG12	2.12	0.49
2:IM:384:ILE:HD11	2:IM:432:TYR:CZ	2.48	0.49
2:JB:153:LEU:O	2:JB:157:LEU:HD23	2.12	0.49
2:JB:270:THR:HG23	2:JB:302:LEU:HB3	1.93	0.49
2:JF:150:GLY:O	2:JF:154:LEU:HD23	2.12	0.49
2:JH:223:SER:OG	2:JH:224:TYR:N	2.45	0.49
2:JL:219:ILE:HG13	2:JL:222:PRO:HG3	1.94	0.49
1:JM:62:ARG:HD3	1:JM:127:CYS:SG	2.52	0.49
2:K:231:ILE:O	2:K:235:VAL:HG23	2.12	0.49
1:KC:141:GLY:O	1:KC:145:SER:OG	2.30	0.49
2:KD:66:LEU:HD22	2:KD:122:ILE:HG12	1.94	0.49
1:KE:323:THR:HG21	2:KF:224:TYR:CZ	2.47	0.49
1:KE:324:LYS:NZ	2:KF:222:PRO:HG2	2.27	0.49
2:KF:70:LEU:HD22	2:KF:110:ILE:HG22	1.95	0.49
1:KI:66:MET:HE2	1:KI:147:MET:HE2	1.95	0.49
1:KK:139:LEU:HG	1:KK:168:SER:HB2	1.95	0.49
1:KK:207:LEU:HD13	1:KK:225:LEU:HB3	1.94	0.49
1:KK:292:GLN:O	1:KK:298:ASN:ND2	2.37	0.49
2:KL:271:SER:OG	2:KL:295:VAL:HG13	2.11	0.49
1:LA:312:THR:HG21	2:LB:404:PHE:HZ	1.77	0.49
1:LC:149:THR:HG21	1:LC:188:SER:HA	1.93	0.49
2:LF:212:LEU:HD23	2:LF:230:LEU:HD13	1.95	0.49
2:LN:396:ASP:OD1	2:LN:422:ARG:NE	2.45	0.49
1:LO:309:ARG:HH11	1:LO:309:ARG:HG2	1.77	0.49
1:LO:325:GLU:HA	1:LO:328:GLU:HG2	1.93	0.49
2:MA:55:GLU:OE2	2:MA:61:HIS:NE2	2.45	0.49
1:MB:164:MET:HB3	1:MB:197:ASP:H	1.77	0.49
1:MD:159:TYR:HB3	1:MD:162:ARG:HG2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MM:286:LEU:O	2:MM:373:ARG:NH1	2.38	0.49
1:MN:287:ALA:HB2	1:MN:329:GLN:HE22	1.76	0.49
1:MN:417:ASP:CG	33:2I:130:ARG:HH22	2.20	0.49
1:N:204:ASN:OD1	69:N:500:GDP:O2'	2.27	0.49
1:N:346:PRO:O	2:NA:394:LYS:NZ	2.45	0.49
2:NA:203:MET:N	2:NA:203:MET:HE2	2.27	0.49
1:NH:233:MET:O	1:NH:236:VAL:HG12	2.12	0.49
1:O:355:ASP:CG	28:1g:145:THR:H	2.19	0.49
1:OB:379:ARG:HE	1:OB:419:VAL:HG13	1.77	0.49
1:OD:226:ASN:HA	1:OD:229:VAL:HG22	1.93	0.49
2:OE:27:GLU:OE1	2:OE:243:ARG:NH2	2.45	0.49
1:OF:133:PHE:HB2	1:OF:164:MET:HE1	1.94	0.49
1:OF:345:ILE:HA	2:OG:398:MET:HE1	1.94	0.49
1:OF:403:MET:HE3	1:OF:408:PHE:CE1	2.47	0.49
1:OH:110:ALA:O	1:OH:113:ILE:HG22	2.12	0.49
1:OH:234:SER:OG	1:OH:241:ARG:NH2	2.45	0.49
1:OH:321:MET:HE2	1:OH:363:MET:HG2	1.94	0.49
1:OJ:311:LEU:HD13	1:OJ:342:ILE:HD12	1.94	0.49
2:OK:277:SER:O	2:OK:281:ALA:HB2	2.13	0.49
2:OK:312:TYR:CD1	2:OK:381:SER:HB3	2.47	0.49
1:OL:229:VAL:HA	1:OL:232:VAL:HG12	1.94	0.49
1:OL:346:PRO:HG2	2:OM:394:LYS:NZ	2.27	0.49
1:P:324:LYS:HB2	2:PA:221:ARG:HH11	1.77	0.49
1:P:350:LYS:HG2	2:PA:179:THR:O	2.13	0.49
2:PA:67:PHE:HB2	2:PA:92:LEU:HD13	1.94	0.49
1:PB:62:ARG:HD3	1:PB:127:CYS:SG	2.53	0.49
1:PF:226:ASN:OD1	69:PF:500:GDP:N1	2.43	0.49
2:PG:332:ILE:O	2:PG:336:LYS:HG2	2.11	0.49
1:PJ:311:LEU:HA	1:PJ:342:ILE:HD12	1.93	0.49
2:PM:182:VAL:HG13	2:PM:185:TYR:HD2	1.77	0.49
1:QA:161:ASP:OD1	1:QA:162:ARG:NH1	2.46	0.49
2:QB:319:TYR:HD2	2:QB:323:VAL:HG11	1.78	0.49
1:QE:313:ALA:HB3	1:QE:349:ILE:HG12	1.94	0.49
1:QG:355:ASP:OD2	28:1b:145:THR:N	2.45	0.49
1:QK:395:LEU:HD21	1:QK:405:GLU:HG3	1.94	0.49
1:RA:180:VAL:O	1:RA:180:VAL:HG12	2.12	0.49
1:RG:267:MET:HE1	1:RG:305:PRO:HD3	1.94	0.49
2:RH:295:VAL:HG21	2:RH:375:VAL:HG13	1.94	0.49
2:SA:273:ALA:HB3	2:SA:295:VAL:HG23	1.94	0.49
1:SD:184:ASN:OD1	1:SD:398:TYR:OH	2.30	0.49
2:SG:138:PHE:HE2	2:SG:235:VAL:HG21	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SH:67:ASP:OD1	1:SH:68:LEU:N	2.46	0.49
1:SH:329:GLN:NE2	59:3p:198:SER:HB3	2.26	0.49
2:SI:240:ALA:O	2:SI:356:ASN:ND2	2.45	0.49
2:TA:304:LYS:HE2	2:TA:304:LYS:HA	1.95	0.49
2:TC:9:ILE:HD11	2:TC:153:LEU:HD23	1.94	0.49
1:TD:183:TYR:HD1	1:TD:385:PHE:CE1	2.30	0.49
2:TG:3:GLU:HA	2:TG:51:THR:HA	1.94	0.49
2:TG:318:MET:HB2	2:TG:376:CYS:HB3	1.93	0.49
1:TH:317:PHE:CD2	1:TH:321:MET:HE1	2.48	0.49
1:TJ:68:LEU:HD12	1:TJ:97:ALA:HB2	1.94	0.49
1:UL:113:ILE:HA	1:UL:116:VAL:HG12	1.94	0.49
2:VI:102:ASN:HB3	2:VI:105:ARG:HB3	1.95	0.49
2:VI:136:MET:HE2	2:VI:252:LEU:HD11	1.94	0.49
1:VJ:255:VAL:HG23	2:VK:407:TRP:CG	2.48	0.49
1:VJ:384:GLN:O	1:VJ:388:MET:HG3	2.12	0.49
2:VK:282:TYR:HE2	8:0G:202:LEU:HD11	1.77	0.49
2:VK:301:MET:HE3	2:VK:303:THR:O	2.12	0.49
2:WA:26:LEU:HD12	2:WA:363:VAL:HG12	1.95	0.49
2:WA:255:PHE:HA	2:WA:258:ASN:HD21	1.78	0.49
1:WB:113:ILE:HG13	1:WB:117:LEU:HD23	1.94	0.49
1:WF:324:LYS:HZ3	2:WG:210:TYR:HB3	1.77	0.49
2:WG:89:PRO:HG3	5:XP:34:PRO:HG3	1.93	0.49
1:WH:280:GLN:HE22	13:0Z:234:GLN:HE22	1.60	0.49
1:WH:332:ASN:HB3	1:WH:336:LYS:NZ	2.27	0.49
1:WJ:309:ARG:NH2	1:WJ:343:GLU:OE2	2.46	0.49
2:WM:108:TYR:O	2:WM:112:LYS:NZ	2.29	0.49
2:WM:223:SER:OG	2:WM:224:TYR:N	2.46	0.49
7:0D:121:ARG:C	7:0D:123:PRO:HD3	2.37	0.49
8:0J:428:ARG:NH1	8:0J:432:GLU:OE2	2.46	0.49
9:0N:122:TYR:CZ	9:0N:136:LEU:HD21	2.47	0.49
9:0N:177:ARG:NE	9:0N:192:ASP:OD1	2.43	0.49
9:0O:287:VAL:HG13	9:0O:299:VAL:HG13	1.94	0.49
14:0c:228:GLN:HE21	14:0c:228:GLN:HA	1.76	0.49
14:0d:24:ILE:C	14:0d:26:GLY:H	2.20	0.49
14:0d:297:ASN:O	14:0d:301:ILE:HG12	2.12	0.49
16:0k:829:ALA:HA	16:0k:837:ILE:HD13	1.93	0.49
19:0r:197:VAL:HG11	47:3D:11:PHE:CD2	2.48	0.49
23:1B:342:ASN:HD22	24:1J:48:ILE:HB	1.76	0.49
24:1J:678:HIS:HB2	24:1J:729:TYR:CZ	2.47	0.49
26:1Q:145:PRO:HG2	26:1Q:148:VAL:HB	1.92	0.49
27:1S:796:THR:HG22	27:1S:796:THR:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:1U:259:ILE:HD11	28:1V:17:THR:HG21	1.94	0.49
28:1Y:52:LEU:HD13	28:1Y:54:ARG:HG3	1.94	0.49
31:1q:13:HIS:HE1	31:1q:62:CYS:SG	2.36	0.49
32:2C:122:PHE:HB3	32:2C:126:ARG:HH21	1.77	0.49
34:2L:39:GLU:OE2	39:2X:302:LYS:NZ	2.39	0.49
36:2Q:302:LYS:NZ	36:2Q:308:GLN:HA	2.27	0.49
48:3F:51:LEU:O	48:3F:55:LEU:HD23	2.12	0.49
53:3W:195:ILE:O	53:3W:199:ILE:HG12	2.12	0.49
57:3f:69:MET:HA	57:3f:72:GLN:HB3	1.93	0.49
66:5K:107:THR:HG23	66:5K:113:THR:HG22	1.94	0.49
1:A:415:MET:O	1:A:419:VAL:HG23	2.13	0.49
2:AC:298:PRO:HB3	2:AC:307:PRO:HD2	1.93	0.49
2:BE:172:TYR:CD2	2:BE:203:MET:HG3	2.47	0.49
1:BJ:293:MET:HG3	1:BJ:367:PHE:HB2	1.92	0.49
2:BK:90:GLU:HB2	2:BK:121:ARG:HE	1.77	0.49
1:CA:80:PRO:HD3	24:1H:307:GLN:HE22	1.77	0.49
1:CC:324:LYS:NZ	2:CD:221:ARG:HA	2.27	0.49
2:CD:142:GLY:HA3	2:CD:183:GLU:HG3	1.94	0.49
2:CD:166:LYS:O	2:CD:199:ASP:HB3	2.13	0.49
1:CG:294:PHE:CD2	1:CG:333:VAL:HG21	2.47	0.49
2:CH:241:SER:HB2	2:CH:250:VAL:H	1.77	0.49
1:CI:19:LYS:NZ	1:CI:223:GLY:O	2.45	0.49
1:CI:163:ILE:HG21	1:CI:250:LEU:HB3	1.94	0.49
2:CJ:236:SER:HB2	2:CJ:243:ARG:HH22	1.78	0.49
1:CK:21:TRP:HA	1:CK:24:ILE:HG22	1.94	0.49
2:CL:31:GLN:NE2	2:CL:37:PRO:HG3	2.27	0.49
2:CL:254:GLU:HA	1:CM:98:GLY:HA2	1.93	0.49
2:DD:9:ILE:HG22	2:DD:146:GLY:HA2	1.93	0.49
2:DD:247:ALA:O	1:DE:11:GLN:NE2	2.45	0.49
1:DG:130:LEU:O	1:DG:162:ARG:NE	2.42	0.49
1:DG:404:ASP:OD1	1:DG:405:GLU:N	2.45	0.49
1:DM:342:ILE:HG22	1:DM:344:TRP:H	1.77	0.49
1:EB:167:PHE:HE2	1:EB:268:MET:HE1	1.76	0.49
2:EC:33:ASP:O	2:EC:60:LYS:NZ	2.45	0.49
1:ED:337:ASN:O	1:ED:340:TYR:HB2	2.13	0.49
2:EE:228:ASN:OD1	71:EE:501:GTP:N1	2.42	0.49
1:EJ:198:GLU:HA	1:EJ:264:HIS:HB2	1.94	0.49
1:EJ:249:ASP:O	1:EJ:253:LEU:HG	2.12	0.49
1:EJ:320:ARG:HH22	1:EJ:355:ASP:CB	2.25	0.49
1:EL:309:ARG:N	1:EL:372:THR:OG1	2.39	0.49
1:FB:226:ASN:OD1	69:FB:500:GDP:N1	2.29	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FB:372:THR:O	1:FB:375:GLN:HG3	2.12	0.49
2:FC:142:GLY:HA2	2:FC:183:GLU:HG3	1.95	0.49
2:FE:167:LEU:HD11	2:FE:255:PHE:HZ	1.77	0.49
2:FE:398:MET:HE1	2:FE:404:PHE:CD2	2.46	0.49
1:FJ:5:VAL:HG12	1:FJ:130:LEU:HD11	1.94	0.49
1:FJ:164:MET:O	1:FJ:165:MET:HE2	2.12	0.49
1:FJ:371:ASN:OD1	1:FJ:372:THR:N	2.45	0.49
1:GD:66:MET:HE3	1:GD:116:VAL:HG21	1.93	0.49
1:GF:328:GLU:OE1	1:GF:329:GLN:NE2	2.45	0.49
1:GJ:207:LEU:HD13	1:GJ:225:LEU:HB3	1.94	0.49
1:GL:67:ASP:OD1	1:GL:143:THR:HG21	2.12	0.49
1:GL:134:GLN:HG3	1:GL:165:MET:HG3	1.94	0.49
2:HA:102:ASN:HD21	2:HA:411:GLU:HG3	1.77	0.49
2:HC:76:ASP:HA	2:HC:79:ARG:HG2	1.95	0.49
1:HD:61:PRO:HD3	1:HD:84:LEU:HG	1.95	0.49
2:HE:169:TYR:CE1	2:HE:235:VAL:HG22	2.47	0.49
1:HH:139:LEU:HD21	1:HH:192:LEU:HD11	1.94	0.49
2:HK:270:THR:HA	2:HK:377:MET:O	2.13	0.49
1:IB:198:GLU:HB2	1:IB:266:PHE:CE2	2.45	0.49
2:IC:268:VAL:HG21	2:IC:378:ILE:HG23	1.94	0.49
1:IF:10:GLY:O	1:IF:14:ASN:ND2	2.40	0.49
2:II:282:TYR:HB3	7:0D:189:PHE:CD1	2.47	0.49
2:IK:265:ILE:HG22	2:IK:380:ASN:HD21	1.76	0.49
1:IL:227:HIS:ND1	7:0D:270:VAL:HG12	2.27	0.49
1:IL:237:THR:HB	1:IL:240:LEU:HD12	1.94	0.49
1:JA:322:SER:N	1:JA:325:GLU:OE2	2.45	0.49
1:JA:406:MET:HE1	1:N:306:ARG:HB2	1.94	0.49
1:JC:101:TRP:NE1	1:JC:188:SER:OG	2.43	0.49
1:JC:301:GLN:HE21	1:JC:377:MET:HE2	1.76	0.49
1:JE:139:LEU:HG	1:JE:168:SER:HB2	1.94	0.49
1:JE:164:MET:HB2	1:JE:197:ASP:H	1.78	0.49
2:JF:53:PHE:HB3	2:JF:61:HIS:HB3	1.93	0.49
1:JG:25:SER:HB2	1:JG:81:TYR:HE2	1.77	0.49
2:JJ:191:THR:HG21	2:JJ:425:LEU:HD13	1.94	0.49
1:JK:172:SER:OG	1:JK:205:GLU:OE1	2.23	0.49
2:JN:188:VAL:HG11	2:JN:395:PHE:CD1	2.47	0.49
2:K:58:ALA:HA	23:1D:64:ARG:NH1	2.26	0.49
2:KD:212:LEU:O	2:KD:216:SER:OG	2.25	0.49
2:KF:326:LYS:HZ3	1:KG:220:PRO:HD2	1.77	0.49
1:KG:299:MET:HE1	1:KG:367:PHE:CD2	2.48	0.49
1:KI:208:TYR:CE1	1:KI:225:LEU:HD11	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KN:44:VAL:HG22	20:0u:255:GLY:O	2.11	0.49
2:KN:103:TYR:HD2	2:KN:413:MET:HE1	1.77	0.49
1:LA:46:ARG:NH2	2:LB:76:ASP:OD2	2.45	0.49
2:LB:70:LEU:HA	2:LB:95:GLY:HA3	1.94	0.49
2:LF:39:ASP:OD1	2:LF:40:LYS:N	2.45	0.49
2:LF:286:LEU:O	2:LF:373:ARG:NH1	2.44	0.49
1:LG:4:ILE:HD12	1:LG:250:LEU:HD11	1.95	0.49
1:LG:261:PRO:HB2	13:0Z:101:ARG:NH1	2.22	0.49
2:LL:243:ARG:HH21	2:LL:244:PHE:HE2	1.61	0.49
2:MA:392:ASP:HB3	2:MA:425:LEU:HD23	1.95	0.49
2:MC:163:LYS:CB	32:2B:61:ARG:HG3	2.21	0.49
2:MC:178:SER:HB2	2:MC:183:GLU:OE1	2.12	0.49
2:MC:362:VAL:HG22	2:MC:370:LYS:HB3	1.94	0.49
1:MD:74:ASP:OD1	45:2y:234:ARG:HD2	2.13	0.49
1:MD:279:GLN:NE2	23:1A:162:GLN:HE21	2.08	0.49
2:ME:136:MET:HE1	2:ME:235:VAL:HG13	1.95	0.49
2:ME:332:ILE:HG22	2:ME:336:LYS:HE2	1.95	0.49
1:MH:102:ALA:HB2	1:MH:403:MET:HE2	1.94	0.49
1:MH:187:LEU:HA	1:MH:190:HIS:CE1	2.48	0.49
2:MK:357:TYR:HE2	23:1B:291:ALA:HA	1.77	0.49
2:MM:291:ILE:O	2:MM:295:VAL:HG23	2.13	0.49
1:ND:109:GLY:HA2	1:ND:147:MET:CE	2.42	0.49
2:NE:279:GLU:O	2:NE:283:HIS:ND1	2.42	0.49
2:NG:288:VAL:HG13	2:NG:319:TYR:CE2	2.46	0.49
1:NL:59:TYR:HE2	41:2o:154:ASN:ND2	2.10	0.49
1:O:149:THR:HB	1:O:191:GLN:HG3	1.93	0.49
1:O:167:PHE:CE2	1:O:233:MET:HG2	2.47	0.49
2:OA:70:LEU:HD12	2:OA:145:THR:HG22	1.95	0.49
1:OB:167:PHE:CZ	1:OB:233:MET:HG2	2.47	0.49
1:OF:68:LEU:HD12	1:OF:97:ALA:HB2	1.93	0.49
2:OG:85:GLN:O	2:PG:283:HIS:NE2	2.46	0.49
2:OG:108:TYR:O	2:OG:112:LYS:NZ	2.28	0.49
1:OH:282:ARG:HH21	1:OH:288:GLU:HB3	1.78	0.49
1:OJ:158:GLU:HG3	1:OJ:159:TYR:CD2	2.48	0.49
1:OJ:215:LEU:HB3	1:OJ:217:LEU:HG	1.94	0.49
2:OK:312:TYR:HD1	2:OK:381:SER:HB3	1.77	0.49
2:OM:269:LEU:N	2:OM:379:ALA:O	2.32	0.49
1:P:16:ILE:HG22	1:P:233:MET:HE1	1.93	0.49
2:PE:406:HIS:HA	2:PE:409:VAL:HG22	1.94	0.49
2:PI:229:ARG:HD2	2:PI:363:VAL:HG21	1.93	0.49
2:PI:252:LEU:HD13	2:PI:255:PHE:HE1	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PJ:179:VAL:HG23	1:PJ:180:VAL:HG13	1.94	0.49
2:PK:33:ASP:O	2:PK:60:LYS:NZ	2.43	0.49
2:PM:192:HIS:CE1	2:PM:420:GLU:HG2	2.48	0.49
2:Q:194:LEU:O	2:Q:266:HIS:NE2	2.45	0.49
2:QB:270:THR:HG22	2:QB:378:ILE:HD13	1.93	0.49
1:QE:236:VAL:HG13	1:QE:237:THR:HG23	1.94	0.49
2:QF:252:LEU:HD13	2:QF:255:PHE:HE1	1.76	0.49
2:QJ:227:VAL:O	2:QJ:231:ILE:HG12	2.13	0.49
2:QL:155:GLU:O	2:QL:159:VAL:HG23	2.12	0.49
2:QL:160:ASP:OD1	2:QL:161:TYR:N	2.45	0.49
2:R:195:LEU:HD11	2:R:264:ARG:NH2	2.27	0.49
1:RA:175:VAL:HG12	1:RA:175:VAL:O	2.12	0.49
1:RA:263:LEU:HD13	1:RA:422:TYR:CE1	2.47	0.49
2:RB:99:ALA:HA	2:RB:110:ILE:HD11	1.94	0.49
1:RC:240:LEU:HD21	1:RC:249:ASP:HB2	1.94	0.49
2:RD:185:TYR:CD1	2:RD:398:MET:HE3	2.48	0.49
1:RG:65:LEU:HD13	1:RG:90:PHE:CE1	2.47	0.49
2:RL:217:LEU:HD21	2:RL:275:VAL:HG22	1.93	0.49
2:SA:147:SER:HB2	2:SA:190:SER:HB3	1.93	0.49
1:SD:276:ARG:NE	41:2c:449:TYR:CE1	2.68	0.49
2:SE:332:ILE:HD11	2:SE:353:CYS:SG	2.53	0.49
1:SJ:215:LEU:HB3	1:SJ:217:LEU:HG	1.95	0.49
2:SK:91:GLN:H	2:SK:121:ARG:HH11	1.59	0.49
2:TC:1:MET:N	2:TC:3:GLU:OE2	2.43	0.49
1:TD:139:LEU:HD12	1:TD:170:ILE:HG12	1.93	0.49
1:TD:377:MET:HA	1:TD:380:ARG:HG2	1.95	0.49
1:TF:58:ARG:NH2	1:TF:83:GLN:O	2.46	0.49
1:TF:287:ALA:O	1:TF:291:GLN:HG3	2.13	0.49
1:TJ:351:SER:H	2:TK:179:THR:HG23	1.78	0.49
1:TL:371:ASN:OD1	1:TL:372:THR:N	2.45	0.49
2:UC:84:ARG:HE	2:UC:85:GLN:HE22	1.59	0.49
2:UC:188:VAL:HG12	2:UC:421:ALA:HB1	1.93	0.49
1:UF:80:PRO:HG3	8:0I:120:MET:HG2	1.93	0.49
1:UF:357:PRO:HG2	34:2L:136:ARG:HH12	1.78	0.49
2:UG:156:ARG:HA	2:UG:159:VAL:HG12	1.94	0.49
2:UI:1:MET:N	2:UI:3:GLU:OE2	2.42	0.49
1:UJ:139:LEU:HG	1:UJ:168:SER:HB2	1.92	0.49
1:VB:109:GLY:HA2	1:VB:147:MET:HE2	1.94	0.49
1:VB:217:LEU:HG	1:VB:220:PRO:HD3	1.94	0.49
2:VC:143:GLY:O	2:VC:186:ASN:ND2	2.45	0.49
1:VD:130:LEU:HG	1:VD:162:ARG:HD3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VE:117:LEU:HD23	2:VE:121:ARG:HE	1.78	0.49
2:VI:319:TYR:HB3	2:VI:323:VAL:HG21	1.94	0.49
1:VJ:316:LEU:HD23	1:VJ:352:SER:OG	2.12	0.49
2:VK:362:VAL:HG21	8:0G:201:GLN:NE2	2.28	0.49
1:WB:72:THR:O	1:WB:76:VAL:HG23	2.12	0.49
1:WB:97:ALA:HB2	1:WB:143:THR:HB	1.94	0.49
1:WB:131:GLN:HE22	1:WB:249:ASP:HB2	1.78	0.49
1:WH:301:GLN:OE1	1:WH:302:ALA:N	2.46	0.49
2:WI:31:GLN:HE22	2:WI:37:PRO:CG	2.24	0.49
1:WJ:141:GLY:O	1:WJ:145:SER:OG	2.28	0.49
3:XE:115:LYS:HG2	3:XE:118:ILE:HG23	1.94	0.49
4:XO:174:MET:HG3	4:XO:175:PHE:N	2.27	0.49
5:XP:246:VAL:HG13	5:XP:302:ASN:HD22	1.78	0.49
6:0A:25:HIS:CD2	6:0A:232:GLN:HG2	2.47	0.49
6:0:97:VAL:HG13	6:0:100:PHE:H	1.77	0.49
8:0F:16:ARG:HE	8:0F:19:GLN:HE22	1.59	0.49
8:0I:15:ARG:HG2	8:0I:19:GLN:HB2	1.95	0.49
8:0J:256:ASN:O	8:0J:259:GLN:HG2	2.13	0.49
9:0N:297:TYR:HB2	9:0N:309:VAL:CG1	2.42	0.49
9:0O:163:ASN:N	9:0O:211:ASP:OD2	2.44	0.49
10:0R:32:GLU:O	10:0R:36:ARG:HG2	2.12	0.49
10:0R:54:LEU:HA	10:0R:57:MET:HE2	1.94	0.49
15:0f:227:ASN:HA	15:0f:231:ASP:HB2	1.94	0.49
16:0l:385:THR:HG21	16:0l:465:PRO:HG3	1.93	0.49
16:0l:839:TYR:CG	16:0l:840:PRO:HD3	2.47	0.49
16:0k:294:LYS:HZ1	16:0k:347:VAL:N	2.11	0.49
23:1B:321:LEU:HD22	44:2w:413:VAL:HG11	1.94	0.49
27:1S:4:ASP:OD1	27:1S:7:LEU:HB2	2.12	0.49
27:1S:19:LYS:HE3	27:1S:23:ARG:HH21	1.78	0.49
28:1U:219:THR:HG23	28:1U:222:SER:H	1.77	0.49
28:1a:236:CYS:CB	28:1b:28:HIS:HE1	2.26	0.49
22:1x:239:LEU:O	22:1x:243:VAL:HG23	2.12	0.49
34:2L:47:THR:HA	39:2X:287:PRO:HD3	1.94	0.49
36:2Q:77:LEU:O	36:2Q:81:GLU:HG3	2.13	0.49
41:2n:162:GLU:C	41:2n:166:LYS:HZ3	2.20	0.49
41:2o:409:GLU:O	41:2o:412:ARG:HB2	2.13	0.49
44:2w:229:THR:HG23	44:2w:232:GLY:H	1.77	0.49
57:3g:20:GLU:O	57:3g:24:VAL:HG23	2.12	0.49
59:4O:119:PHE:HB3	59:4O:120:PRO:HD3	1.94	0.49
64:5C:114:GLU:OE1	65:5H:108:ARG:NH1	2.45	0.49
2:AA:205:ASP:OD1	2:AA:303:THR:HA	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AG:288:VAL:HA	2:AG:291:ILE:HG12	1.93	0.49
1:AH:112:LEU:O	1:AH:116:VAL:HG23	2.12	0.49
1:AH:246:LEU:HD22	1:AH:352:SER:HA	1.94	0.49
1:AL:371:ASN:OD1	1:AL:372:THR:N	2.45	0.49
1:AN:62:ARG:HG2	1:AN:123:GLU:OE2	2.13	0.49
1:AN:239:CYS:SG	1:AN:248:SER:OG	2.65	0.49
1:AN:345:ILE:O	1:AN:348:ASN:ND2	2.45	0.49
1:B:116:VAL:CG1	1:B:151:LEU:HD11	2.43	0.49
1:BB:32:PRO:HG3	1:BB:81:TYR:HD1	1.78	0.49
2:BC:274:PRO:HG2	2:BC:371:VAL:HG11	1.94	0.49
2:BC:277:SER:C	2:BC:369:ALA:HB2	2.37	0.49
1:BD:20:PHE:HA	1:BD:230:ALA:HB1	1.95	0.49
1:BD:318:ARG:HB2	1:BD:364:SER:HB3	1.93	0.49
2:BE:206:ASN:OD1	71:BE:501:GTP:O2'	2.30	0.49
1:BF:286:VAL:HG21	1:BF:326:VAL:HA	1.95	0.49
1:BF:373:CYS:O	1:BF:376:GLU:HG3	2.12	0.49
1:BH:65:LEU:HB3	1:BH:73:MET:HE1	1.94	0.49
2:BI:90:GLU:HB2	2:BI:121:ARG:NH1	2.28	0.49
1:BL:21:TRP:CZ3	1:BL:50:TYR:HB3	2.48	0.49
1:BL:203:ASP:OD1	1:BL:205:GLU:HG2	2.13	0.49
1:BL:217:LEU:CB	1:BL:220:PRO:HG3	2.43	0.49
1:BN:161:ASP:OD1	1:BN:162:ARG:NH1	2.33	0.49
1:CA:77:ARG:HD3	1:CA:90:PHE:HE2	1.77	0.49
2:CJ:326:LYS:HD2	1:CK:212:PHE:CZ	2.48	0.49
1:DG:156:ARG:HH22	1:DG:197:ASP:CG	2.20	0.49
1:DI:113:ILE:HG13	1:DI:117:LEU:HD23	1.93	0.49
1:DK:50:TYR:HD2	1:DK:241:ARG:HD3	1.77	0.49
1:DK:246:LEU:HA	2:DL:11:GLN:OE1	2.12	0.49
2:DL:322:ASP:OD2	2:DL:373:ARG:NH2	2.46	0.49
2:EA:102:ASN:HB3	2:EA:105:ARG:HB2	1.95	0.49
2:EC:5:ILE:HD13	2:EC:64:ARG:HB3	1.93	0.49
2:EC:187:CYS:O	2:EC:191:THR:HG23	2.13	0.49
2:EE:244:PHE:HB2	2:EE:356:ASN:HD21	1.77	0.49
2:EE:317:LEU:HD21	2:EE:377:MET:HE3	1.95	0.49
2:EG:70:LEU:HD11	2:EG:149:LEU:HD22	1.94	0.49
2:EG:298:PRO:HB3	2:EG:307:PRO:HD2	1.94	0.49
2:EK:216:SER:OG	2:EK:275:VAL:O	2.30	0.49
2:EK:336:LYS:HE2	1:EL:174:ARG:HH21	1.78	0.49
2:EK:367:ASP:N	2:EK:367:ASP:OD1	2.42	0.49
1:EL:22:GLU:HG2	1:EL:81:TYR:HB2	1.93	0.49
2:FA:295:VAL:HG21	2:FA:375:VAL:HG13	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FD:139:LEU:HA	1:FD:145:SER:HB3	1.94	0.49
1:FD:246:LEU:HD21	2:FE:179:THR:HG21	1.94	0.49
2:FK:33:ASP:OD1	2:FK:34:GLY:N	2.46	0.49
2:FK:319:TYR:HB3	2:FK:323:VAL:HG11	1.93	0.49
1:G:347:ASN:HD22	2:GA:178:SER:HB3	1.77	0.49
1:GB:52:ASP:HB2	1:GB:62:ARG:HD3	1.94	0.49
1:GF:245:GLN:HE22	2:GG:223:SER:HG	1.52	0.49
2:GI:75:VAL:O	2:GI:79:ARG:HG3	2.12	0.49
2:GK:237:SER:HA	2:GK:320:ARG:HD2	1.94	0.49
1:H:175:VAL:O	1:H:175:VAL:HG12	2.13	0.49
2:HA:91:GLN:OE1	2:HA:125:LEU:HD11	2.12	0.49
1:HB:206:ALA:O	1:HB:210:ILE:HG12	2.12	0.49
1:HF:32:PRO:HG3	1:HF:81:TYR:CE1	2.47	0.49
2:HK:318:MET:O	2:HK:375:VAL:HA	2.12	0.49
1:HL:68:LEU:HD13	1:HL:93:GLY:HA3	1.95	0.49
1:HL:309:ARG:HD3	1:HL:339:SER:O	2.12	0.49
2:IA:352:LYS:CE	1:IB:178:THR:HA	2.43	0.49
2:IC:137:VAL:HG12	2:IC:139:HIS:HD1	1.78	0.49
2:IC:248:LEU:HG	1:ID:222:PHE:HE2	1.77	0.49
1:ID:9:ALA:HB3	1:ID:137:HIS:HB3	1.94	0.49
2:IE:372:GLN:HE22	7:0D:82:GLY:C	2.20	0.49
2:IE:390:ARG:HH12	2:IE:394:LYS:HD3	1.77	0.49
2:IG:293:ASN:O	2:IG:297:GLU:HG2	2.13	0.49
2:II:336:LYS:HE3	2:II:351:PHE:CE2	2.47	0.49
2:IK:103:TYR:HD2	2:IK:413:MET:HE1	1.77	0.49
1:IL:237:THR:O	1:IL:241:ARG:HG3	2.12	0.49
2:IM:185:TYR:HE2	2:IM:404:PHE:HB2	1.77	0.49
1:JC:326:VAL:HG11	1:JC:353:ILE:HD11	1.94	0.49
1:JE:32:PRO:HG3	1:JE:81:TYR:CE1	2.48	0.49
2:JF:219:ILE:HG13	2:JF:222:PRO:HD3	1.93	0.49
1:JG:2:ARG:HH22	2:JH:73:THR:HG23	1.78	0.49
1:JK:187:LEU:HD11	1:JK:408:PHE:CE1	2.47	0.49
1:JM:324:LYS:CE	2:JN:222:PRO:HG2	2.43	0.49
2:K:209:ILE:HG21	2:K:227:VAL:HG13	1.94	0.49
2:K:258:ASN:CG	2:K:352:LYS:HD3	2.37	0.49
2:KB:47:ASP:HB2	2:KB:50:ASN:HB2	1.94	0.49
2:KB:388:PHE:HA	2:KB:391:ILE:HG22	1.94	0.49
1:KC:54:SER:OG	1:KC:55:SER:N	2.45	0.49
1:KC:303:ALA:HB2	1:KC:377:MET:HE1	1.93	0.49
1:KE:3:GLU:OE2	1:KE:62:ARG:HD2	2.12	0.49
1:KE:274:THR:HG23	1:KE:279:GLN:HG2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KJ:59:GLY:HA3	23:1E:115:LYS:HZ1	1.77	0.49
2:KL:155:GLU:OE1	2:KL:197:HIS:NE2	2.46	0.49
2:L:248:LEU:HB2	2:L:355:ILE:H	1.76	0.49
2:L:285:GLN:HE22	2:L:287:SER:HB3	1.77	0.49
1:LA:256:ASN:HD21	2:LB:101:ASN:HD22	1.60	0.49
1:LG:273:LEU:HD21	25:1O:27:ILE:HD12	1.95	0.49
2:LH:37:PRO:HB2	19:0r:288:MET:HE1	1.95	0.49
2:LH:170:THR:HG21	2:LH:194:LEU:HD21	1.93	0.49
1:LI:66:MET:HE2	1:LI:116:VAL:CG1	2.42	0.49
2:LJ:203:MET:HG3	2:LJ:269:LEU:HD23	1.95	0.49
1:LK:276:ARG:HH12	24:1J:21:LEU:HA	1.78	0.49
1:LO:31:ASP:OD2	1:LO:35:THR:OG1	2.30	0.49
1:M:165:MET:HE3	1:M:250:LEU:HB3	1.94	0.49
2:MA:212:LEU:HD13	2:MA:300:GLY:HA2	1.94	0.49
1:MB:339:SER:HB2	13:0Y:72:PRO:HB2	1.95	0.49
2:MC:262:TYR:HB2	2:MC:265:ILE:HG12	1.94	0.49
1:MH:5:VAL:HG23	1:MH:62:ARG:HB3	1.95	0.49
2:MK:105:ARG:HG3	2:MK:109:THR:OG1	2.12	0.49
1:MN:293:MET:HG3	1:MN:367:PHE:HB2	1.95	0.49
1:N:229:VAL:O	1:N:233:MET:HG2	2.13	0.49
1:NB:290:THR:HA	1:NB:293:MET:HB2	1.94	0.49
2:NC:202:THR:C	2:NC:203:MET:HE2	2.37	0.49
1:NH:267:MET:HA	1:NH:301:GLN:HE22	1.78	0.49
2:NI:326:LYS:NZ	1:NJ:220:PRO:C	2.70	0.49
2:NM:88:ASN:OD1	2:NM:90:GLU:N	2.45	0.49
1:O:324:LYS:NZ	2:OA:222:PRO:HG2	2.28	0.49
2:OA:71:GLU:OE2	2:OA:73:THR:OG1	2.28	0.49
1:OB:286:VAL:HG11	1:OB:325:GLU:O	2.13	0.49
2:OC:56:THR:HA	2:PC:285:GLN:HB2	1.95	0.49
2:OC:317:LEU:O	2:OC:318:MET:HE2	2.11	0.49
1:OD:386:THR:HG22	1:OD:412:GLU:OE2	2.12	0.49
1:OF:159:TYR:HB3	1:OF:162:ARG:HG3	1.93	0.49
2:OG:3:GLU:HA	2:OG:51:THR:HA	1.94	0.49
1:OH:376:GLU:HG2	1:OH:380:ARG:HH21	1.78	0.49
1:OJ:396:HIS:HA	1:OJ:399:THR:HG1	1.77	0.49
2:OM:217:LEU:HD12	2:OM:367:ASP:HB2	1.95	0.49
2:PA:238:LEU:HD11	2:PA:378:ILE:HG13	1.95	0.49
2:PC:219:ILE:HG22	2:PC:222:PRO:HD3	1.93	0.49
2:PC:306:ASP:HB3	2:PC:309:HIS:CD2	2.47	0.49
2:PG:139:HIS:O	2:PG:170:THR:HA	2.13	0.49
2:PK:238:LEU:HD23	2:PK:318:MET:HG3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QD:265:ILE:HG21	2:QD:313:MET:HE1	1.94	0.49
1:QG:350:LYS:HD2	1:QG:351:SER:N	2.27	0.49
1:QK:237:THR:OG1	1:QK:241:ARG:NH1	2.46	0.49
2:QL:271:SER:OG	2:QL:377:MET:HE2	2.13	0.49
2:QL:372:GLN:HE22	41:2i:360:LEU:HD21	1.77	0.49
2:R:317:LEU:HB2	2:R:353:CYS:HA	1.95	0.49
2:RB:319:TYR:HB3	2:RB:323:VAL:HG21	1.95	0.49
2:RD:28:HIS:NE2	2:RD:48:ALA:O	2.43	0.49
1:RE:235:GLY:HA3	1:RE:366:THR:HG21	1.92	0.49
1:RE:341:PHE:HB3	1:RE:348:ASN:HD22	1.78	0.49
1:RE:379:ARG:HE	1:RE:419:VAL:HG11	1.77	0.49
2:RF:293:ASN:O	2:RF:297:GLU:HG2	2.13	0.49
1:SB:316:LEU:HG	1:SB:352:SER:HB2	1.94	0.49
1:SD:125:GLU:OE2	61:3w:228:ARG:NH1	2.44	0.49
2:SE:210:TYR:HD2	59:3p:107:PHE:HE2	1.60	0.49
1:SH:11:GLN:NE2	69:SH:500:GDP:O1A	2.31	0.49
1:SH:344:TRP:CG	2:SI:401:LYS:HZ1	2.30	0.49
2:SK:145:THR:OG1	71:SK:501:GTP:O1G	2.27	0.49
2:SK:174:SER:HB2	2:SK:207:GLU:OE1	2.13	0.49
1:TB:269:GLY:HA2	1:TB:299:MET:HA	1.94	0.49
1:TF:253:LEU:HD21	1:TF:316:LEU:HD21	1.94	0.49
1:TH:51:PHE:HB3	1:TH:59:TYR:HB3	1.94	0.49
2:TI:229:ARG:NH1	2:TI:363:VAL:HG21	2.28	0.49
2:TK:54:SER:HA	2:TK:64:ARG:HH21	1.77	0.49
2:TK:258:ASN:OD1	1:TL:179:VAL:HG12	2.12	0.49
2:TK:313:MET:HE1	2:TK:435:VAL:HG12	1.95	0.49
1:TL:161:ASP:O	1:TL:251:ARG:NH2	2.45	0.49
1:UF:267:MET:HE1	1:UF:299:MET:SD	2.52	0.49
2:UG:9:ILE:HG22	2:UG:146:GLY:HA2	1.94	0.49
2:VE:388:PHE:HA	2:VE:391:ILE:HG22	1.95	0.49
1:VF:334:GLN:HE22	1:VF:348:ASN:HB2	1.77	0.49
2:VG:68:LEU:HG	2:VG:149:LEU:HD21	1.94	0.49
1:VJ:66:MET:HE2	1:VJ:147:MET:SD	2.52	0.49
1:VJ:68:LEU:HD12	1:VJ:97:ALA:HB2	1.95	0.49
1:VJ:344:TRP:CD2	2:VK:401:LYS:HD2	2.48	0.49
2:VK:254:GLU:HA	1:VL:98:GLY:HA2	1.94	0.49
1:W:134:GLN:HA	1:W:165:MET:HB2	1.95	0.49
1:W:371:ASN:ND2	1:W:373:CYS:SG	2.85	0.49
1:WB:125:GLU:HG2	3:XA:17:ILE:HD12	1.94	0.49
1:WB:376:GLU:HA	1:WB:379:ARG:HG2	1.94	0.49
2:WC:269:LEU:HD11	2:WC:384:ILE:HD13	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:WG:238:LEU:HD12	2:WG:318:MET:HE2	1.95	0.49
2:WK:244:PHE:HB2	2:WK:356:ASN:HD21	1.77	0.49
2:WM:215:ARG:NH2	2:WM:299:ALA:O	2.45	0.49
7:0D:359:PRO:HD2	7:0D:362:ASP:OD2	2.12	0.49
8:0G:398:LEU:HD22	53:3W:263:PHE:HB3	1.95	0.49
9:0L:490:CYS:HB2	9:0L:504:MET:HE3	1.94	0.49
10:0R:60:ILE:HB	19:0r:197:VAL:HG23	1.95	0.49
12:0W:105:PHE:HD1	12:0W:108:LEU:HD12	1.77	0.49
14:0d:231:LEU:O	14:0d:234:SER:OG	2.30	0.49
18:0p:198:ARG:HH12	18:0p:210:MET:HE2	1.77	0.49
23:1A:94:LEU:HD11	40:2Z:293:PRO:HB2	1.95	0.49
23:1E:98:HIS:ND1	45:2z:72:GLN:HG3	2.28	0.49
23:1E:210:ARG:HH12	45:2y:421:ASN:HB2	1.78	0.49
24:1H:338:TYR:CE1	24:1H:349:LEU:HD22	2.48	0.49
24:1H:514:ASN:OD1	24:1H:587:ARG:NH1	2.45	0.49
24:1K:509:ASP:OD1	24:1K:510:GLU:N	2.45	0.49
26:1Q:370:CYS:SG	26:1Q:371:GLU:N	2.85	0.49
26:1Q:530:ILE:HD12	26:1Q:574:VAL:HG21	1.93	0.49
28:1U:254:LEU:O	28:1V:17:THR:N	2.45	0.49
31:1s:234:GLN:HB2	31:1s:241:ASN:HD21	1.77	0.49
22:1w:59:LEU:HD22	48:3F:48:MET:HE1	1.93	0.49
33:2G:1:MET:N	33:2G:106:LEU:HB3	2.28	0.49
44:2v:297:MET:HA	44:2v:300:ILE:HG22	1.94	0.49
48:3G:45:GLU:HG2	48:3G:49:LYS:HZ2	1.78	0.49
57:3f:17:PRO:HA	57:3f:20:GLU:HG2	1.94	0.49
66:5L:218:ASN:O	66:5L:221:GLN:HG3	2.12	0.49
2:AC:288:VAL:HG22	2:AC:323:VAL:HG12	1.95	0.49
1:AD:75:SER:HA	27:1S:172:LYS:CE	2.43	0.49
1:AD:166:THR:HG21	1:AD:192:LEU:HD22	1.94	0.49
1:AJ:249:ASP:OD1	1:AJ:252:LYS:HB2	2.13	0.49
1:AJ:316:LEU:HD23	1:AJ:352:SER:OG	2.12	0.49
1:B:117:LEU:HA	1:B:120:CYS:SG	2.52	0.49
1:B:317:PHE:CE2	1:B:326:VAL:HG23	2.48	0.49
2:BE:50:ASN:C	2:BE:50:ASN:ND2	2.64	0.49
1:BH:66:MET:HE1	1:BH:151:LEU:HB2	1.95	0.49
2:BI:218:ASP:O	16:0l:803:ARG:NH1	2.46	0.49
1:BJ:175:VAL:O	1:BJ:175:VAL:HG12	2.13	0.49
1:BJ:238:CYS:HB3	1:BJ:318:ARG:HH11	1.77	0.49
2:BK:70:LEU:HD22	2:BK:99:ALA:HB2	1.95	0.49
1:CE:293:MET:HE1	1:CE:330:MET:HE1	1.94	0.49
1:CE:417:ASP:OD1	1:CE:418:LEU:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CG:347:ASN:OD1	2:CH:178:SER:OG	2.28	0.49
2:CH:285:GLN:HE21	24:1I:236:LEU:HD21	1.77	0.49
2:CJ:134:GLY:HA2	2:CJ:164:LYS:HG3	1.94	0.49
2:CJ:288:VAL:HB	2:CJ:327:ASP:HB3	1.94	0.49
1:CK:139:LEU:HD12	1:CK:170:ILE:HG12	1.95	0.49
1:DA:185:THR:O	1:DA:189:VAL:HG23	2.12	0.49
1:DC:91:ILE:HG22	1:DC:112:LEU:HD21	1.94	0.49
1:DG:97:ALA:HB2	1:DG:143:THR:HG23	1.93	0.49
1:DI:309:ARG:NH2	1:DI:343:GLU:OE1	2.46	0.49
1:DK:11:GLN:HB3	1:DK:72:THR:HG21	1.95	0.49
1:DK:14:ASN:HB3	1:DK:76:VAL:HG21	1.93	0.49
1:E:396:HIS:HA	1:E:399:THR:HG22	1.95	0.49
2:EA:367:ASP:N	2:EA:367:ASP:OD1	2.41	0.49
2:EA:406:HIS:HA	2:EA:409:VAL:HG22	1.95	0.49
2:EC:319:TYR:HB3	2:EC:323:VAL:HG21	1.94	0.49
1:EF:63:ALA:O	1:EF:89:ASN:ND2	2.45	0.49
2:EI:406:HIS:HA	2:EI:409:VAL:HG22	1.94	0.49
1:EJ:91:ILE:HG22	1:EJ:112:LEU:HD21	1.94	0.49
1:EL:20:PHE:HZ	1:EL:50:TYR:CE1	2.31	0.49
1:EL:203:ASP:OD2	1:EL:380:ARG:NH2	2.46	0.49
1:FD:235:GLY:HA3	1:FD:366:THR:HG21	1.95	0.49
2:FG:21:TRP:CZ2	2:FG:65:CYS:HB3	2.47	0.49
2:FG:262:TYR:HB2	2:FG:265:ILE:HG12	1.95	0.49
1:FJ:272:PRO:HD2	1:FJ:361:LEU:HD21	1.94	0.49
2:GA:75:VAL:HG21	2:GA:94:SER:HB3	1.93	0.49
2:GA:239:THR:HG23	2:GA:243:ARG:NH1	2.28	0.49
1:GB:311:LEU:H	1:GB:371:ASN:HA	1.77	0.49
2:GC:252:LEU:HA	2:GC:255:PHE:CE2	2.48	0.49
2:GE:52:PHE:HZ	2:GE:239:THR:HG21	1.78	0.49
1:GJ:267:MET:HG3	1:GJ:369:GLY:O	2.13	0.49
2:GK:205:ASP:OD1	2:GK:303:THR:HA	2.12	0.49
1:H:32:PRO:HG3	1:H:81:TYR:CE1	2.47	0.49
2:HA:132:LEU:O	2:HA:164:LYS:NZ	2.28	0.49
2:HA:317:LEU:HB3	2:HA:319:TYR:HE1	1.78	0.49
1:HB:27:GLU:OE1	1:HB:241:ARG:NH1	2.45	0.49
2:HC:62:VAL:HG11	2:HC:88:ASN:HD22	1.77	0.49
1:HF:211:CYS:HB3	1:HF:220:PRO:HG3	1.94	0.49
1:HH:255:VAL:HG11	2:HI:100:ALA:O	2.13	0.49
1:I:1:MET:HE3	2:IA:72:PRO:HG3	1.94	0.49
1:I:245:GLN:NE2	2:IA:223:SER:HG	2.09	0.49
2:IG:316:CYS:SG	2:IG:318:MET:HE3	2.52	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IM:324:VAL:HG12	2:IM:326:LYS:H	1.77	0.49
2:J:117:LEU:HG	2:J:121:ARG:HH12	1.78	0.49
2:JD:71:GLU:HB2	2:JD:98:ASP:HB2	1.94	0.49
2:JF:26:LEU:HD12	2:JF:363:VAL:HG12	1.95	0.49
2:JH:200:VAL:HG23	2:JH:256:GLN:NE2	2.27	0.49
1:JI:267:MET:SD	1:JI:301:GLN:NE2	2.86	0.49
1:JM:371:ASN:OD1	1:JM:373:CYS:N	2.46	0.49
2:K:22:GLU:OE2	2:K:229:ARG:NH1	2.45	0.49
2:K:357:TYR:O	49:3P:544:ARG:NH2	2.46	0.49
1:KA:112:LEU:O	1:KA:116:VAL:HG23	2.13	0.49
2:KB:122:ILE:HG21	2:KB:157:LEU:HD21	1.95	0.49
2:KF:102:ASN:HB3	2:KF:105:ARG:HB3	1.95	0.49
1:KG:135:LEU:HB3	1:KG:166:THR:HG22	1.95	0.49
2:KH:166:LYS:N	2:KH:199:ASP:OD2	2.45	0.49
2:KJ:337:THR:C	18:0p:216:ARG:HH12	2.20	0.49
1:KM:69:GLU:OE2	1:KM:96:GLY:HA3	2.12	0.49
2:KN:195:LEU:HD11	2:KN:264:ARG:HD3	1.94	0.49
1:LC:227:HIS:CE1	27:1S:33:ARG:HA	2.48	0.49
2:LD:21:TRP:CZ2	2:LD:65:CYS:HB3	2.47	0.49
2:LD:116:ASP:OD1	2:LD:117:LEU:N	2.45	0.49
2:LJ:415:GLU:OE1	13:0Z:151:THR:HA	2.13	0.49
2:LN:70:LEU:HA	2:LN:95:GLY:HA3	1.94	0.49
2:LN:169:TYR:HE1	2:LN:235:VAL:HG23	1.78	0.49
2:LN:212:LEU:HD21	2:LN:275:VAL:HG21	1.93	0.49
2:MC:51:THR:HG21	2:MC:243:ARG:HG2	1.95	0.49
1:MD:227:HIS:NE2	23:1A:158:PRO:O	2.44	0.49
2:ME:127:ASP:OD1	2:ME:128:ASN:N	2.45	0.49
1:MF:39:ASP:HB2	25:1O:64:ASN:ND2	2.28	0.49
2:MG:155:GLU:O	2:MG:158:SER:OG	2.30	0.49
2:MG:252:LEU:HA	2:MG:255:PHE:CE1	2.47	0.49
2:MI:329:ASN:HD22	1:MJ:208:TYR:HD2	1.59	0.49
2:NA:21:TRP:CZ2	2:NA:65:CYS:HB3	2.47	0.49
1:NB:318:ARG:HE	1:NB:358:PRO:HG3	1.78	0.49
1:ND:11:GLN:HE22	69:ND:500:GDP:H8	1.60	0.49
2:NE:103:TYR:HB3	2:NE:408:TYR:HE2	1.78	0.49
2:NE:205:ASP:OD1	2:NE:303:THR:HA	2.13	0.49
2:NE:271:SER:OG	2:NE:295:VAL:HG13	2.13	0.49
2:NG:199:ASP:HB3	2:NG:256:GLN:HE21	1.78	0.49
2:NG:296:PHE:CZ	2:NG:377:MET:HE1	2.47	0.49
1:NH:175:VAL:O	1:NH:175:VAL:HG12	2.13	0.49
1:NJ:8:GLN:HB2	1:NJ:65:LEU:HD23	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NK:178:SER:HB2	2:NK:183:GLU:OE1	2.13	0.49
1:NL:256:ASN:O	1:NL:312:THR:HG21	2.11	0.49
2:NM:306:ASP:HB2	2:NM:308:ARG:NH1	2.28	0.49
2:OA:376:CYS:O	2:OA:377:MET:HE2	2.12	0.49
1:OB:187:LEU:HD11	1:OB:408:PHE:CZ	2.48	0.49
2:OC:98:ASP:OD1	2:OC:99:ALA:N	2.46	0.49
2:OE:287:SER:HA	2:OE:373:ARG:HH11	1.76	0.49
1:OH:350:LYS:HE2	2:OI:101:ASN:HD21	1.77	0.49
2:OK:246:GLY:HA3	2:OK:356:ASN:HA	1.93	0.49
2:OK:301:MET:HG3	2:OK:303:THR:H	1.78	0.49
1:OL:142:GLY:N	69:OL:500:GDP:O3B	2.44	0.49
2:OM:1:MET:C	2:OM:2:ARG:HD3	2.38	0.49
2:OM:121:ARG:HA	2:OM:124:LYS:HZ3	1.78	0.49
2:OM:338:LYS:HE2	2:OM:341:ILE:HG12	1.94	0.49
1:P:85:PHE:HB2	1:P:90:PHE:CZ	2.47	0.49
1:P:347:ASN:ND2	2:PA:178:SER:O	2.45	0.49
1:PB:62:ARG:NH1	1:PB:127:CYS:SG	2.85	0.49
1:PD:242:PHE:HB2	1:PD:354:CYS:SG	2.53	0.49
1:PF:164:MET:HB3	1:PF:197:ASP:H	1.78	0.49
2:PI:392:ASP:OD1	2:PI:393:HIS:N	2.46	0.49
1:PL:175:VAL:HG12	1:PL:175:VAL:O	2.13	0.49
1:QA:232:VAL:HG21	1:QA:300:MET:HE1	1.94	0.49
1:QE:381:VAL:HG13	1:QE:415:MET:HE1	1.94	0.49
2:QF:241:SER:OG	2:QF:250:VAL:N	2.34	0.49
1:QG:255:VAL:HG11	2:QH:100:ALA:O	2.13	0.49
1:QG:345:ILE:HG13	1:QG:348:ASN:OD1	2.11	0.49
2:QH:79:ARG:O	2:QH:84:ARG:HG2	2.11	0.49
2:QJ:56:THR:HG22	2:QJ:58:ALA:H	1.77	0.49
2:QJ:324:VAL:HG13	2:QJ:327:ASP:H	1.75	0.49
1:QK:210:ILE:HA	1:QK:297:LYS:HZ1	1.76	0.49
2:QL:328:VAL:O	2:QL:332:ILE:HG12	2.12	0.49
1:RA:112:LEU:CD2	1:RA:147:MET:HE1	2.42	0.49
1:RA:374:ILE:HG22	1:RA:378:PHE:CE2	2.47	0.49
1:RC:322:SER:OG	1:RC:325:GLU:OE1	2.19	0.49
1:RC:350:LYS:NZ	1:RC:352:SER:OG	2.45	0.49
2:RD:356:ASN:OD1	2:RD:357:TYR:N	2.45	0.49
2:RF:5:ILE:HG12	2:RF:132:LEU:HD11	1.93	0.49
2:RF:88:ASN:HB3	2:RF:91:GLN:HB2	1.93	0.49
2:RH:211:ASP:O	2:RH:214:ARG:HG2	2.13	0.49
1:RK:55:SER:HB3	1:SJ:284:LEU:H	1.76	0.49
1:RK:211:CYS:HB3	1:RK:220:PRO:HG2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:RL:211:ASP:HB3	2:RL:215:ARG:NH2	2.28	0.49
1:S:128:ASP:OD2	61:3w:135:LYS:N	2.40	0.49
2:SA:285:GLN:HE22	2:SA:287:SER:HB3	1.76	0.49
2:SA:311:LYS:NZ	2:SA:436:GLY:O	2.33	0.49
1:SJ:122:LYS:HE2	61:3x:82:TYR:CE1	2.42	0.49
2:SK:177:VAL:HB	2:SK:207:GLU:HG2	1.94	0.49
2:SK:331:ALA:O	2:SK:335:ILE:HG12	2.13	0.49
1:TF:9:ALA:HB2	1:TF:66:MET:HE3	1.95	0.49
1:TF:325:GLU:OE2	2:TG:221:ARG:HA	2.13	0.49
2:TG:187:CYS:O	2:TG:191:THR:HG23	2.13	0.49
1:TH:159:TYR:HB3	1:TH:162:ARG:HG3	1.94	0.49
1:TJ:375:GLN:HB2	1:TJ:419:VAL:HG23	1.93	0.49
2:UC:70:LEU:HD22	2:UC:110:ILE:HG22	1.93	0.49
1:UD:417:ASP:OD2	1:UD:418:LEU:N	2.44	0.49
1:UF:375:GLN:OE1	1:UF:379:ARG:NH2	2.46	0.49
2:UG:282:TYR:HB2	8:0J:419:ILE:HD11	1.93	0.49
2:UI:191:THR:O	2:UI:195:LEU:HG	2.12	0.49
2:UK:21:TRP:CZ2	2:UK:65:CYS:HB3	2.47	0.49
1:UL:135:LEU:HD21	1:UL:148:GLY:HA2	1.93	0.49
1:UL:378:PHE:CD2	1:UL:415:MET:HE1	2.48	0.49
2:VA:9:ILE:HD13	2:VA:150:GLY:HA2	1.93	0.49
2:VC:395:PHE:HZ	2:VC:418:PHE:HB3	1.78	0.49
1:VJ:55:SER:HB3	1:WJ:284:LEU:H	1.77	0.49
1:VJ:175:VAL:O	1:VJ:175:VAL:HG12	2.13	0.49
2:VK:324:VAL:HG12	2:VK:326:LYS:H	1.76	0.49
1:VL:385:PHE:CE2	1:VL:412:GLU:HB2	2.48	0.49
1:W:190:HIS:HB2	1:W:414:ASN:HD22	1.77	0.49
2:WA:21:TRP:CZ2	2:WA:65:CYS:HB3	2.48	0.49
1:WD:37:GLN:OE1	8:0F:25:ARG:NH1	2.45	0.49
1:WD:175:VAL:HG12	1:WD:175:VAL:O	2.13	0.49
2:WE:19:ALA:O	2:WE:22:GLU:HG2	2.12	0.49
2:WE:388:PHE:HA	2:WE:391:ILE:HG22	1.95	0.49
1:WF:34:GLY:HA3	1:WF:58:ARG:HG3	1.95	0.49
2:WG:212:LEU:HD21	2:WG:275:VAL:HG11	1.94	0.49
2:WI:9:ILE:HD11	2:WI:153:LEU:HD23	1.93	0.49
1:WJ:156:ARG:HH22	1:WJ:197:ASP:CG	2.21	0.49
3:XC:71:ILE:HG21	3:XC:167:PHE:CG	2.47	0.49
3:XE:131:GLN:OE1	3:XE:133:GLN:NE2	2.45	0.49
3:XF:81:LYS:HD3	3:XF:161:ARG:HD2	1.95	0.49
4:XO:299:MET:HA	4:XO:299:MET:HE3	1.94	0.49
4:XQ:150:VAL:CG1	4:XQ:187:ARG:HH12	2.24	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:0A:31:MET:HA	6:0A:31:MET:HE2	1.95	0.49
6:0:77:GLN:HB2	6:0:89:LYS:HB3	1.93	0.49
7:0D:111:GLN:HG2	10:0R:94:PRO:HG3	1.95	0.49
8:0G:406:ARG:O	8:0G:410:GLU:HG3	2.12	0.49
9:0M:329:ASP:OD1	9:0M:330:ILE:N	2.45	0.49
9:0N:156:LYS:HG2	9:0N:172:GLY:HA2	1.95	0.49
11:0U:24:TYR:HD1	11:0U:39:ASP:HA	1.78	0.49
14:0c:274:HIS:HA	14:0c:277:TYR:CE1	2.48	0.49
22:0z:64:ARG:HH11	22:0z:68:TYR:HE2	1.59	0.49
23:1A:116:GLU:OE2	40:2Z:10:ARG:HG3	2.12	0.49
23:1E:91:GLN:HG3	45:2z:76:ASN:HD21	1.77	0.49
26:1Q:299:ILE:HD13	26:1Q:337:ILE:HG23	1.93	0.49
27:1T:681:ALA:O	27:1T:682:ARG:HG2	2.12	0.49
28:1Y:5:HIS:CE1	41:2e:355:ASN:HD21	2.30	0.49
28:1a:254:LEU:HD11	28:1b:22:ILE:CD1	2.42	0.49
22:1x:83:ALA:HB1	22:1x:89:ARG:HG3	1.93	0.49
32:2B:14:SER:O	32:2B:18:ARG:HG3	2.13	0.49
36:2Q:2:LEU:HD22	36:2Q:6:GLU:HB3	1.93	0.49
38:2V:97:HIS:HA	38:2V:100:THR:HG22	1.94	0.49
40:2Z:76:LEU:HB3	40:2Z:81:VAL:HB	1.94	0.49
40:2Z:245:TYR:CZ	40:2Z:249:TYR:HE2	2.31	0.49
45:2z:119:LEU:O	45:2z:123:ARG:HG3	2.13	0.49
46:3B:108:ASP:OD1	46:3B:355:ARG:NH2	2.33	0.49
65:5H:159:ILE:HD12	65:5H:162:GLU:HB3	1.94	0.49
66:5L:96:ILE:HD11	66:5L:188:ILE:HD11	1.95	0.49
2:AE:176:GLN:HB2	2:AE:207:GLU:OE2	2.12	0.49
1:AF:263:LEU:HD13	1:AF:311:LEU:HD11	1.94	0.49
1:AH:32:PRO:HG3	1:AH:81:TYR:CZ	2.46	0.49
1:AH:236:VAL:HG13	1:AH:237:THR:HG23	1.95	0.49
1:AJ:156:ARG:NH2	1:AJ:197:ASP:OD1	2.45	0.49
1:AJ:311:LEU:HB2	1:AJ:370:ASN:O	2.12	0.49
1:B:276:ARG:HA	1:B:279:GLN:HG2	1.94	0.49
2:BC:248:LEU:HD23	2:BC:355:ILE:HD12	1.94	0.49
2:BE:254:GLU:HG3	2:BE:352:LYS:HZ1	1.76	0.49
2:BG:406:HIS:HA	2:BG:409:VAL:HG22	1.94	0.49
1:BH:362:LYS:HG3	16:0l:783:CYS:SG	2.52	0.49
2:BK:295:VAL:HG21	2:BK:375:VAL:HG13	1.94	0.49
1:BN:20:PHE:HA	1:BN:230:ALA:HB1	1.94	0.49
2:C:251:ASP:H	2:C:254:GLU:HB2	1.77	0.49
2:CB:318:MET:O	2:CB:375:VAL:HA	2.11	0.49
1:CC:36:TYR:OH	1:CC:40:SER:O	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CC:344:TRP:HB3	1:CC:430:VAL:HG12	1.94	0.49
1:CE:318:ARG:HE	1:CE:358:PRO:HD3	1.77	0.49
1:CG:10:GLY:HA2	1:CG:143:THR:HG23	1.93	0.49
1:CK:181:GLU:O	1:CK:185:THR:HG22	2.13	0.49
2:DB:259:LEU:HG	2:DB:268:VAL:HG11	1.94	0.49
1:DG:267:MET:HB3	1:DG:299:MET:HE2	1.94	0.49
1:DK:242:PHE:HB2	1:DK:354:CYS:SG	2.53	0.49
2:EA:67:PHE:HB2	2:EA:92:LEU:HD13	1.94	0.49
1:EB:135:LEU:HG	1:EB:137:HIS:HD2	1.77	0.49
2:EC:88:ASN:HB3	2:EC:91:GLN:HG2	1.93	0.49
2:EE:19:ALA:O	2:EE:22:GLU:HG3	2.13	0.49
2:EE:241:SER:OG	2:EE:250:VAL:O	2.25	0.49
2:EE:259:LEU:HD21	2:EE:378:ILE:HG12	1.95	0.49
1:EF:345:ILE:HD12	2:EG:404:PHE:HE2	1.76	0.49
1:EH:203:ASP:HB3	1:EH:301:GLN:HA	1.95	0.49
2:EK:237:SER:HA	2:EK:320:ARG:HD2	1.94	0.49
1:F:175:VAL:O	1:F:175:VAL:HG12	2.13	0.49
1:F:183:TYR:HB3	1:F:398:TYR:CE2	2.47	0.49
1:FB:299:MET:HE1	1:FB:367:PHE:HD2	1.78	0.49
1:FB:344:TRP:HB3	1:FB:430:VAL:HG12	1.95	0.49
2:FC:7:ILE:HB	2:FC:137:VAL:HG12	1.94	0.49
2:FC:123:ARG:O	2:FC:123:ARG:HD3	2.13	0.49
1:FD:124:ALA:HB1	1:FD:130:LEU:HD22	1.94	0.49
1:FD:294:PHE:HB3	63:4I:315:PHE:HZ	1.77	0.49
2:FE:187:CYS:O	2:FE:191:THR:HG23	2.12	0.49
2:FI:298:PRO:HG2	2:FI:308:ARG:HE	1.78	0.49
2:FK:53:PHE:HB3	2:FK:61:HIS:HB3	1.94	0.49
2:FK:329:ASN:HD22	1:FL:175:VAL:HA	1.78	0.49
2:GA:71:GLU:OE1	2:GA:73:THR:OG1	2.31	0.49
2:GA:229:ARG:HH11	2:GA:363:VAL:HG21	1.78	0.49
2:GA:291:ILE:O	2:GA:295:VAL:HG23	2.12	0.49
1:GB:32:PRO:HG3	1:GB:81:TYR:CD1	2.48	0.49
1:GB:249:ASP:H	1:GB:252:LYS:HB3	1.78	0.49
2:GE:172:TYR:HD2	2:GE:203:MET:HG3	1.76	0.49
1:GL:268:MET:HE1	1:GL:368:ILE:HG23	1.94	0.49
2:HA:227:VAL:O	2:HA:231:ILE:HG12	2.13	0.49
2:HA:306:ASP:OD2	2:HA:308:ARG:NH1	2.46	0.49
1:HD:248:SER:HA	1:HD:252:LYS:HG2	1.95	0.49
1:HD:290:THR:HA	1:HD:293:MET:HG2	1.94	0.49
2:HE:384:ILE:HG12	2:HE:388:PHE:CE2	2.48	0.49
1:HF:52:ASP:OD2	1:HF:126:SER:OG	2.19	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HF:268:MET:SD	1:HF:368:ILE:HD12	2.53	0.49
2:HG:219:ILE:HB	2:HG:222:PRO:HG3	1.95	0.49
1:HH:172:SER:HB2	1:HH:377:MET:HE1	1.94	0.49
1:HJ:215:LEU:HD21	1:HJ:273:LEU:HD22	1.95	0.49
2:HM:5:ILE:HD11	2:HM:129:CYS:SG	2.52	0.49
2:HM:282:TYR:OH	2:HM:370:LYS:O	2.22	0.49
2:IE:292:THR:HG21	2:IE:331:ALA:HB1	1.95	0.49
2:II:227:VAL:O	2:II:231:ILE:HG12	2.13	0.49
2:IK:196:GLU:HG3	2:IK:197:HIS:CE1	2.48	0.49
1:IL:21:TRP:HA	1:IL:24:ILE:HG22	1.94	0.49
1:IL:322:SER:OG	2:IM:222:PRO:O	2.28	0.49
2:J:169:TYR:HD2	2:J:202:THR:HB	1.78	0.49
2:JB:187:CYS:SG	2:JB:391:ILE:HG12	2.52	0.49
1:JC:204:ASN:HD21	69:JC:500:GDP:HN22	1.59	0.49
1:JC:320:ARG:NH2	15:0f:117:MET:O	2.42	0.49
2:JD:120:ASP:O	2:JD:123:ARG:HG3	2.12	0.49
2:JD:205:ASP:OD1	2:JD:303:THR:HA	2.13	0.49
2:JD:251:ASP:H	2:JD:254:GLU:HG3	1.78	0.49
2:JF:372:GLN:HE22	47:3D:31:THR:HG22	1.76	0.49
1:JG:141:GLY:O	1:JG:145:SER:OG	2.28	0.49
1:JG:175:VAL:HG12	1:JG:175:VAL:O	2.13	0.49
1:JG:323:THR:HG21	2:JH:224:TYR:CE1	2.48	0.49
1:JI:20:PHE:HA	1:JI:230:ALA:HB1	1.95	0.49
1:JK:229:VAL:HG12	1:JK:233:MET:HE3	1.95	0.49
2:JL:419:SER:HA	60:3t:23:HIS:CE1	2.48	0.49
2:JN:307:PRO:HB3	2:JN:312:TYR:CE1	2.48	0.49
1:KC:31:ASP:OD2	1:KC:33:THR:HG22	2.12	0.49
1:KC:286:VAL:HG21	1:KC:326:VAL:HA	1.95	0.49
2:KD:21:TRP:CZ2	2:KD:65:CYS:HB3	2.47	0.49
1:KG:299:MET:HE1	1:KG:367:PHE:HD2	1.78	0.49
2:KN:67:PHE:HB2	2:KN:92:LEU:HD12	1.95	0.49
2:KN:70:LEU:HD12	2:KN:145:THR:HG22	1.95	0.49
2:KN:333:ALA:O	2:KN:337:THR:HG23	2.13	0.49
1:LA:39:ASP:OD1	1:LA:40:SER:N	2.46	0.49
2:LD:46:ASP:OD1	32:2B:257:ARG:NH1	2.46	0.49
2:LJ:103:TYR:HD1	2:LJ:413:MET:HE1	1.78	0.49
2:LJ:224:TYR:HA	2:LJ:227:VAL:HG22	1.95	0.49
2:LN:122:ILE:HA	2:LN:125:LEU:HD12	1.95	0.49
1:MD:36:TYR:OH	1:MD:40:SER:O	2.31	0.49
2:ME:105:ARG:HB2	2:ME:411:GLU:HG3	1.94	0.49
2:ME:247:ALA:HB1	1:MF:222:PHE:CD2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MH:313:ALA:HB1	1:MH:367:PHE:HE1	1.78	0.49
2:MI:244:PHE:HD2	2:MI:356:ASN:HD21	1.61	0.49
2:MK:298:PRO:HB3	2:MK:307:PRO:HD2	1.94	0.49
2:NC:207:GLU:HA	2:NC:210:TYR:CD2	2.47	0.49
1:NF:332:ASN:HB3	1:NF:336:LYS:NZ	2.28	0.49
2:NG:155:GLU:HG2	2:NG:197:HIS:ND1	2.28	0.49
2:NG:254:GLU:CD	1:NH:98:GLY:HA2	2.37	0.49
1:NH:306:ARG:HG2	1:NH:340:TYR:CZ	2.47	0.49
1:NJ:66:MET:SD	1:NJ:147:MET:HE1	2.53	0.49
1:NJ:371:ASN:OD1	1:NJ:372:THR:N	2.46	0.49
2:NM:297:GLU:OE1	2:NM:300:GLY:N	2.43	0.49
1:O:163:ILE:HG13	1:O:251:ARG:HB2	1.95	0.49
2:OA:9:ILE:CG1	2:OA:139:HIS:HB3	2.41	0.49
1:OB:208:TYR:HE1	1:OB:225:LEU:HD11	1.77	0.49
1:OF:181:GLU:HB3	1:OF:182:PRO:HD3	1.94	0.49
2:OG:331:ALA:O	2:OG:335:ILE:HG22	2.13	0.49
1:OL:34:GLY:HA3	1:OL:58:ARG:HG3	1.93	0.49
2:OM:166:LYS:O	2:OM:199:ASP:HB3	2.12	0.49
2:PC:21:TRP:CZ2	2:PC:65:CYS:HB3	2.47	0.49
2:PE:324:VAL:HG11	2:PE:326:LYS:HE2	1.95	0.49
1:PF:73:MET:HG3	1:PF:92:PHE:HB3	1.95	0.49
2:PG:56:THR:HA	2:QF:285:GLN:HB3	1.95	0.49
2:PM:3:GLU:N	2:PM:3:GLU:OE1	2.44	0.49
2:PM:171:VAL:HG12	2:PM:204:LEU:O	2.13	0.49
2:Q:349:THR:OG1	2:Q:350:GLY:N	2.44	0.49
1:QC:346:PRO:HD2	2:QD:398:MET:CE	2.42	0.49
2:QH:45:GLU:OE1	41:2e:245:ARG:NH1	2.44	0.49
2:QH:91:GLN:HE21	2:QH:125:LEU:HG	1.78	0.49
1:QK:315:ALA:HB2	1:QK:330:MET:HE2	1.94	0.49
2:R:317:LEU:HD12	2:R:319:TYR:CE2	2.48	0.49
2:RB:317:LEU:O	2:RB:318:MET:HE2	2.13	0.49
1:RC:67:ASP:OD1	1:RC:68:LEU:N	2.46	0.49
2:SI:138:PHE:HE2	2:SI:235:VAL:HG21	1.77	0.49
2:SI:362:VAL:HG11	2:SI:370:LYS:HA	1.95	0.49
1:SJ:91:ILE:HD11	1:SJ:119:VAL:HG21	1.95	0.49
1:SJ:272:PRO:HG3	1:SJ:364:SER:HA	1.94	0.49
2:SK:90:GLU:OE1	2:SK:121:ARG:HD2	2.13	0.49
2:SK:291:ILE:O	2:SK:295:VAL:HG23	2.13	0.49
1:TD:3:GLU:CD	1:TD:3:GLU:H	2.21	0.49
1:TD:101:TRP:HE3	1:TD:403:MET:HE1	1.77	0.49
2:TE:11:GLN:O	2:TE:15:GLN:HG3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TF:27:GLU:HA	1:TF:359:LYS:HE2	1.94	0.49
1:TF:173:PRO:HD2	1:TF:380:ARG:NH1	2.27	0.49
1:TF:374:ILE:HD11	1:TF:422:TYR:CZ	2.48	0.49
2:TG:254:GLU:CD	1:TH:99:ASN:HB2	2.38	0.49
1:TH:28:HIS:HA	1:TH:43:GLN:HG2	1.95	0.49
2:TK:291:ILE:HG22	2:TK:375:VAL:HG12	1.95	0.49
1:UD:133:PHE:HB2	1:UD:164:MET:SD	2.53	0.49
1:UF:350:LYS:HD2	2:UG:179:THR:O	2.12	0.49
1:UH:249:ASP:OD1	1:UH:252:LYS:HB2	2.13	0.49
2:UK:387:VAL:O	2:UK:391:ILE:HG12	2.12	0.49
1:V:22:GLU:HG2	1:V:81:TYR:HB2	1.93	0.49
1:V:211:CYS:HB3	1:V:220:PRO:HB3	1.93	0.49
1:VD:10:GLY:O	1:VD:14:ASN:ND2	2.45	0.49
1:VD:255:VAL:HG11	2:VE:100:ALA:O	2.12	0.49
2:VE:271:SER:OG	2:VE:295:VAL:HG13	2.13	0.49
1:VH:226:ASN:HA	1:VH:229:VAL:HG22	1.94	0.49
1:VH:252:LYS:HB2	2:VI:100:ALA:HA	1.95	0.49
1:VH:345:ILE:HG23	1:VH:348:ASN:ND2	2.28	0.49
2:VK:238:LEU:HD23	2:VK:318:MET:HE1	1.95	0.49
1:W:323:THR:HA	1:W:326:VAL:HG22	1.95	0.49
2:WA:326:LYS:HE3	1:WB:219:THR:HA	1.94	0.49
1:WB:163:ILE:HG21	1:WB:250:LEU:HB3	1.95	0.49
2:WE:315:CYS:SG	2:WE:377:MET:HE3	2.53	0.49
3:XD:95:ASP:OD1	3:XD:99:MET:N	2.31	0.49
4:XQ:211:HIS:O	4:XQ:215:ILE:HG12	2.12	0.49
9:0L:204:THR:O	9:0L:216:CYS:HA	2.13	0.49
9:0L:372:LEU:HD11	9:0L:381:ILE:HD11	1.94	0.49
9:0M:57:PHE:HD2	9:0M:93:PHE:HD2	1.61	0.49
9:0M:104:MET:HB3	9:0M:137:TRP:CZ3	2.48	0.49
9:0M:178:VAL:HG23	9:0M:193:ILE:HD11	1.94	0.49
9:0M:389:ARG:HD2	9:0M:405:ALA:HA	1.94	0.49
9:0N:407:ALA:O	9:0N:447:ARG:NH1	2.45	0.49
12:0W:292:ARG:HD3	12:0W:328:ASP:HA	1.95	0.49
13:0Y:175:VAL:HB	13:0Y:180:LYS:HE3	1.95	0.49
15:0g:58:THR:O	15:0g:62:ILE:HG12	2.13	0.49
16:0k:682:ALA:HA	16:0k:697:MET:CE	2.43	0.49
16:0k:685:CYS:HB2	16:0k:697:MET:HE3	1.95	0.49
26:1Q:507:GLU:HA	26:1Q:510:LYS:HG2	1.94	0.49
28:1g:148:ALA:HA	28:1g:151:GLU:HG2	1.95	0.49
22:1w:159:ALA:HB2	48:3F:60:PHE:HE1	1.78	0.49
33:2I:227:HIS:NE2	33:2I:246:ASP:OD2	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:2o:404:ALA:O	41:2o:407:LYS:HG3	2.13	0.49
42:2r:259:LEU:HD23	42:2r:263:ILE:HB	1.95	0.49
46:3B:263:MET:HA	46:3B:263:MET:HE2	1.94	0.49
61:3x:95:TYR:HD2	61:3x:103:PRO:HB3	1.77	0.49
67:5O:71:SER:OG	67:5O:74:GLU:OE1	2.21	0.49
67:5P:91:PHE:CD1	68:5T:94:CYS:HA	2.47	0.49
1:AB:215:LEU:HD11	1:AB:228:LEU:HD21	1.94	0.49
2:AC:439:SER:HB3	1:AD:391:ARG:HD2	1.95	0.49
1:AD:309:ARG:NH1	1:AD:426:GLN:O	2.46	0.49
2:AG:210:TYR:HE2	2:AG:227:VAL:HG21	1.78	0.49
2:AI:79:ARG:O	2:AI:84:ARG:HG2	2.13	0.49
1:AJ:207:LEU:HB3	1:AJ:225:LEU:HD11	1.93	0.49
1:AN:52:ASP:OD2	1:AN:86:ARG:NH2	2.43	0.49
1:AN:398:TYR:O	1:AN:403:MET:HG2	2.13	0.49
2:BC:324:VAL:O	2:BC:328:VAL:HG23	2.12	0.49
2:BE:204:LEU:HD22	2:BE:231:ILE:HG12	1.95	0.49
1:BH:229:VAL:O	1:BH:233:MET:HG2	2.13	0.49
1:BH:403:MET:HE3	1:BH:408:PHE:CE2	2.48	0.49
1:BJ:31:ASP:OD2	1:BJ:37:GLN:NE2	2.37	0.49
1:BN:161:ASP:OD1	1:BN:162:ARG:HD2	2.12	0.49
1:CA:73:MET:HG3	1:CA:92:PHE:HB3	1.94	0.49
1:CA:286:VAL:HG12	1:CA:329:GLN:HG3	1.94	0.49
1:CE:332:ASN:HB3	1:CE:336:LYS:NZ	2.27	0.49
1:CG:327:ASP:OD1	1:CG:328:GLU:N	2.46	0.49
2:CH:53:PHE:HB3	2:CH:61:HIS:HB3	1.93	0.49
1:DA:113:ILE:HG13	1:DA:117:LEU:HD23	1.94	0.49
1:DG:202:ILE:HD13	1:DG:268:MET:HG3	1.95	0.49
1:DM:67:ASP:OD1	1:DM:68:LEU:N	2.46	0.49
1:DM:289:LEU:O	1:DM:293:MET:HG3	2.13	0.49
2:EC:53:PHE:HB3	2:EC:61:HIS:HB3	1.95	0.49
2:EC:237:SER:HA	2:EC:320:ARG:HH11	1.78	0.49
1:ED:166:THR:HG22	1:ED:199:SER:HA	1.94	0.49
1:EF:303:ALA:HB1	1:EF:373:CYS:SG	2.53	0.49
2:EG:21:TRP:CZ2	2:EG:65:CYS:HB3	2.48	0.49
1:EJ:215:LEU:HD11	1:EJ:228:LEU:HD21	1.93	0.49
2:EK:98:ASP:O	2:EK:105:ARG:NH1	2.45	0.49
1:F:2:ARG:NH1	2:FA:71:GLU:HG2	2.25	0.49
1:FD:229:VAL:HA	1:FD:232:VAL:HG22	1.93	0.49
1:FF:200:MET:HE1	1:FF:236:VAL:HG21	1.95	0.49
2:FG:195:LEU:HD21	2:FG:264:ARG:HH21	1.78	0.49
1:FJ:10:GLY:O	1:FJ:14:ASN:ND2	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FJ:279:GLN:NE2	24:1J:437:GLU:OE2	2.45	0.49
1:FL:207:LEU:HD13	1:FL:225:LEU:HB3	1.95	0.49
2:GC:209:ILE:HG21	2:GC:227:VAL:HG13	1.95	0.49
1:GF:284:LEU:HD21	1:GF:363:MET:HB3	1.95	0.49
2:GG:138:PHE:HE2	2:GG:235:VAL:HG21	1.78	0.49
1:GH:2:ARG:HH11	2:GI:72:PRO:HD2	1.77	0.49
2:GI:105:ARG:HG3	2:GI:109:THR:OG1	2.13	0.49
1:GJ:371:ASN:OD1	1:GJ:372:THR:N	2.46	0.49
1:GL:316:LEU:HD13	1:GL:352:SER:OG	2.13	0.49
2:HC:271:SER:OG	2:HC:295:VAL:HG13	2.13	0.49
1:HD:323:THR:HG22	2:HE:223:SER:HA	1.95	0.49
1:HH:48:ASN:O	1:HH:62:ARG:NH2	2.45	0.49
1:HH:256:ASN:HD22	1:HH:350:LYS:HG3	1.78	0.49
1:HJ:60:VAL:HG11	1:HJ:86:ARG:HE	1.76	0.49
2:HM:392:ASP:OD1	2:HM:393:HIS:N	2.45	0.49
1:I:202:ILE:HG21	1:I:229:VAL:HG22	1.95	0.49
1:IB:205:GLU:HB2	1:IB:302:ALA:HB2	1.94	0.49
1:IB:350:LYS:HA	2:IC:179:THR:O	2.13	0.49
2:IC:91:GLN:HG2	2:IC:125:LEU:HD21	1.95	0.49
2:IC:236:SER:O	2:IC:243:ARG:NH2	2.46	0.49
1:ID:113:ILE:HG13	1:ID:117:LEU:HD23	1.94	0.49
1:ID:267:MET:HE3	1:ID:371:ASN:HB3	1.94	0.49
1:ID:324:LYS:HG3	2:IE:210:TYR:HB3	1.95	0.49
2:IE:91:GLN:HG2	2:IE:125:LEU:HD21	1.94	0.49
2:IG:67:PHE:HB2	2:IG:92:LEU:HD12	1.95	0.49
2:II:431:ASP:OD1	2:II:432:TYR:N	2.46	0.49
2:IK:231:ILE:O	2:IK:234:VAL:HG12	2.13	0.49
2:J:133:GLN:O	2:J:165:SER:HB3	2.13	0.49
2:J:252:LEU:HA	2:J:255:PHE:CE1	2.48	0.49
1:JA:208:TYR:HE1	1:JA:225:LEU:HD11	1.78	0.49
2:JB:79:ARG:HH22	2:JB:94:SER:HB3	1.78	0.49
1:JE:182:PRO:HB3	1:JE:385:PHE:HA	1.95	0.49
1:JG:233:MET:O	1:JG:236:VAL:HG12	2.13	0.49
2:JJ:51:THR:HG21	2:JJ:243:ARG:HG2	1.95	0.49
2:JL:188:VAL:HG23	2:JL:425:LEU:HG	1.94	0.49
1:JM:173:PRO:HD2	1:JM:380:ARG:NH1	2.28	0.49
1:JM:409:THR:C	60:3t:45:VAL:HG11	2.37	0.49
1:KC:122:LYS:HE3	1:LC:291:GLN:NE2	2.28	0.49
1:KE:233:MET:O	1:KE:236:VAL:HG12	2.12	0.49
1:KE:324:LYS:HE3	2:KF:221:ARG:NH1	2.28	0.49
1:KE:325:GLU:H	2:KF:221:ARG:HH22	1.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KF:406:HIS:HA	2:KF:409:VAL:HG22	1.94	0.49
1:KG:3:GLU:HA	1:KG:49:VAL:HA	1.95	0.49
2:KH:240:ALA:HA	2:KH:243:ARG:HE	1.78	0.49
2:KJ:101:ASN:HD21	2:KJ:180:ALA:CB	2.26	0.49
1:KK:27:GLU:OE1	1:KK:241:ARG:NH2	2.46	0.49
1:KK:252:LYS:HD2	2:KL:101:ASN:ND2	2.28	0.49
2:KN:178:SER:OG	2:KN:183:GLU:OE1	2.30	0.49
1:LA:91:ILE:HD13	1:LA:116:VAL:HA	1.94	0.49
1:LE:206:ALA:O	1:LE:210:ILE:HG22	2.12	0.49
2:LF:156:ARG:HA	2:LF:159:VAL:HG12	1.95	0.49
1:LG:100:ASN:HB3	1:LG:103:LYS:HB2	1.94	0.49
1:LG:170:ILE:HD11	1:LG:203:ASP:HB2	1.95	0.49
2:LH:267:PHE:HB2	2:LH:432:TYR:OH	2.12	0.49
2:LL:215:ARG:HD3	35:2O:129:LEU:HD21	1.95	0.49
1:LO:51:PHE:HB3	1:LO:59:TYR:HB3	1.94	0.49
1:M:229:VAL:HG12	1:M:300:MET:HE1	1.94	0.49
1:MD:276:ARG:HG3	23:1A:167:GLU:OE2	2.13	0.49
1:MD:345:ILE:O	1:MD:348:ASN:ND2	2.44	0.49
1:MF:143:THR:O	1:MF:147:MET:HB3	2.13	0.49
2:MG:169:TYR:HE2	2:MG:235:VAL:HG13	1.77	0.49
1:N:33:THR:O	1:N:58:ARG:NH2	2.46	0.49
2:NC:11:GLN:HG3	2:NC:74:VAL:HG11	1.94	0.49
1:ND:323:THR:HG21	2:NE:224:TYR:CZ	2.48	0.49
2:NG:240:ALA:HB2	2:NG:243:ARG:HH21	1.78	0.49
1:NH:103:LYS:HZ3	1:NH:401:GLU:CD	2.20	0.49
2:NI:205:ASP:OD1	2:NI:303:THR:HA	2.12	0.49
2:NK:269:LEU:HD13	2:NK:301:MET:SD	2.53	0.49
1:NL:346:PRO:HG2	2:NM:394:LYS:NZ	2.28	0.49
2:NM:28:HIS:CE1	2:NM:243:ARG:HD2	2.47	0.49
2:NM:217:LEU:HD21	2:NM:275:VAL:HG22	1.94	0.49
1:O:139:LEU:HG	1:O:168:SER:HB2	1.94	0.49
1:OD:327:ASP:OD1	1:OD:328:GLU:N	2.46	0.49
2:OE:189:LEU:HD13	2:OE:413:MET:HE1	1.95	0.49
2:OG:326:LYS:HZ1	1:OH:219:THR:HA	1.78	0.49
1:OH:131:GLN:HG2	1:OH:240:LEU:HD11	1.94	0.49
1:OL:46:ARG:HH22	2:OM:76:ASP:HB2	1.78	0.49
1:OL:317:PHE:CD2	1:OL:321:MET:HE1	2.48	0.49
2:OM:252:LEU:HD23	2:OM:255:PHE:HE2	1.77	0.49
2:PE:155:GLU:HG2	2:PE:197:HIS:CE1	2.48	0.49
1:PF:156:ARG:NH2	1:PF:197:ASP:OD1	2.45	0.49
2:PG:286:LEU:O	2:PG:373:ARG:NH1	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QB:185:TYR:CE1	2:QB:398:MET:HG2	2.45	0.49
1:QC:375:GLN:HB3	1:QC:422:TYR:HB2	1.95	0.49
2:QF:174:SER:HB2	2:QF:177:VAL:O	2.13	0.49
1:QG:148:GLY:O	1:QG:152:ILE:HG13	2.13	0.49
2:QJ:431:ASP:O	2:QJ:435:VAL:HG13	2.13	0.49
1:QK:16:ILE:HG23	69:QK:500:GDP:O5'	2.12	0.49
2:QL:183:GLU:HG3	2:QL:184:PRO:HD3	1.95	0.49
2:RF:301:MET:HE1	2:RF:307:PRO:HG3	1.94	0.49
1:RI:152:ILE:O	1:RI:156:ARG:HG2	2.13	0.49
1:RI:355:ASP:OD2	28:1Y:113:THR:HG23	2.12	0.49
2:RL:206:ASN:ND2	71:RL:501:GTP:O2'	2.45	0.49
1:SH:350:LYS:HG2	2:SI:180:ALA:HA	1.95	0.49
2:SK:370:LYS:N	41:2c:258:GLN:HE22	2.06	0.49
2:TA:117:LEU:O	2:TA:121:ARG:HG2	2.13	0.49
1:TB:165:MET:HE1	1:TB:250:LEU:HD12	1.94	0.49
1:TD:347:ASN:HD22	2:TE:178:SER:HB3	1.78	0.49
2:TE:174:SER:HB2	2:TE:177:VAL:O	2.12	0.49
2:TI:335:ILE:HG23	2:TI:341:ILE:HD11	1.95	0.49
1:TL:151:LEU:O	1:TL:155:LEU:HD23	2.13	0.49
1:U:134:GLN:HA	1:U:165:MET:O	2.12	0.49
2:UA:205:ASP:OD1	2:UA:303:THR:HA	2.12	0.49
2:UC:392:ASP:HB3	2:UC:425:LEU:HD23	1.93	0.49
1:UD:148:GLY:O	1:UD:152:ILE:HG12	2.12	0.49
1:UH:16:ILE:HD11	1:UH:229:VAL:HG11	1.94	0.49
1:UH:295:ASP:OD2	1:UH:297:LYS:NZ	2.32	0.49
2:UI:296:PHE:CZ	2:UI:377:MET:HE1	2.48	0.49
2:UI:310:GLY:HA3	2:UI:383:ALA:HB2	1.94	0.49
1:UL:193:VAL:HA	1:UL:264:HIS:CE1	2.47	0.49
2:VA:318:MET:HB2	2:VA:376:CYS:HB3	1.94	0.49
1:VD:10:GLY:HA2	1:VD:143:THR:HG23	1.94	0.49
2:VE:80:THR:CG2	30:1o:172:ARG:HH12	2.26	0.49
2:VI:328:VAL:O	2:VI:332:ILE:HG12	2.12	0.49
2:VI:439:SER:HB3	1:VJ:391:ARG:HH11	1.77	0.49
2:VM:331:ALA:O	2:VM:335:ILE:HG12	2.12	0.49
1:W:10:GLY:O	1:W:14:ASN:ND2	2.43	0.49
2:WA:134:GLY:HA2	2:WA:164:LYS:HG3	1.94	0.49
2:WA:352:LYS:HD2	1:WB:177:ASP:O	2.12	0.49
1:WB:148:GLY:O	1:WB:152:ILE:HG12	2.12	0.49
2:WC:329:ASN:HD21	1:WD:175:VAL:HG22	1.78	0.49
1:WH:309:ARG:H	1:WH:372:THR:HG1	1.57	0.49
1:WL:164:MET:H	1:WL:197:ASP:HB2	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:WM:165:SER:HB2	2:WM:256:GLN:HE22	1.77	0.49
8:0F:182:GLU:HG3	8:0F:186:GLN:HE22	1.78	0.49
9:0M:267:VAL:HG22	9:0M:287:VAL:HG21	1.95	0.49
11:0U:124:ILE:HD13	11:0U:147:LEU:HD13	1.93	0.49
12:0W:154:LEU:HD21	12:0W:187:GLY:HA2	1.94	0.49
16:0l:16:ARG:HH12	16:0l:105:LEU:HA	1.78	0.49
16:0l:419:ARG:HH21	16:0l:477:TYR:HE2	1.60	0.49
16:0l:685:CYS:SG	16:0l:692:LEU:HD12	2.53	0.49
17:0m:80:LEU:HA	17:0m:83:GLN:HG2	1.93	0.49
23:1B:290:LYS:HB3	23:1B:293:ARG:HG3	1.95	0.49
23:1E:113:ARG:HG2	24:1J:30:ARG:HH21	1.78	0.49
24:1H:680:ILE:HG13	24:1H:697:CYS:HB2	1.95	0.49
24:1I:674:MET:HG2	24:1I:733:MET:SD	2.53	0.49
28:1Y:119:PRO:HD2	28:1Y:121:TRP:CZ2	2.48	0.49
28:1h:159:GLN:HB3	28:1h:161:ARG:CZ	2.42	0.49
33:2I:236:GLU:OE1	33:2I:247:PHE:HB2	2.13	0.49
41:2h:153:THR:OG1	41:2i:482:ARG:NH1	2.45	0.49
46:3B:225:PHE:CD2	46:3B:328:GLY:HA3	2.47	0.49
47:3D:191:ARG:O	47:3D:194:ARG:HG3	2.13	0.49
48:3L:430:ASN:HA	48:3L:433:ARG:HE	1.77	0.49
53:3W:266:SER:O	53:3W:270:LEU:HG	2.11	0.49
62:4A:436:SER:O	62:4A:440:GLN:NE2	2.45	0.49
28:4V:251:HIS:CD2	28:4W:30:CYS:SG	3.06	0.49
65:5H:64:VAL:HG23	65:5H:65:LYS:HD3	1.95	0.49
2:AE:3:GLU:OE2	2:AE:130:THR:N	2.46	0.49
1:AF:101:TRP:NE1	1:AF:188:SER:OG	2.45	0.49
1:AF:150:LEU:O	1:AF:154:LYS:HG2	2.13	0.49
2:AG:97:GLU:OE1	2:AG:105:ARG:NH1	2.46	0.49
2:AG:352:LYS:HD2	1:AH:178:THR:HA	1.95	0.49
1:AH:19:LYS:HG3	1:AH:20:PHE:N	2.25	0.49
1:AJ:141:GLY:O	1:AJ:145:SER:OG	2.27	0.49
1:AJ:404:ASP:HB3	1:AJ:407:GLU:HG2	1.94	0.49
2:AK:431:ASP:OD1	2:AK:432:TYR:N	2.46	0.49
1:AN:148:GLY:O	1:AN:152:ILE:HG12	2.12	0.49
2:BA:79:ARG:O	2:BA:84:ARG:HB3	2.12	0.49
1:BB:311:LEU:HB2	1:BB:370:ASN:O	2.13	0.49
2:BG:142:GLY:HA3	2:BG:183:GLU:OE1	2.13	0.49
1:BJ:216:LYS:HB2	1:BJ:275:SER:HB2	1.94	0.49
2:BK:152:LEU:O	2:BK:156:ARG:HG2	2.13	0.49
2:C:33:ASP:OD1	2:C:34:GLY:N	2.45	0.49
2:C:325:PRO:HB2	1:CA:208:TYR:OH	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:155:GLU:HG2	2:CB:197:HIS:ND1	2.28	0.49
1:CC:207:LEU:HD21	1:CC:229:VAL:HG23	1.95	0.49
2:CD:153:LEU:O	2:CD:157:LEU:HD23	2.12	0.49
2:CD:319:TYR:HB3	2:CD:323:VAL:HG21	1.94	0.49
1:CE:27:GLU:OE1	1:CE:241:ARG:NH1	2.42	0.49
1:CI:189:VAL:O	1:CI:193:VAL:HG23	2.12	0.49
2:CJ:155:GLU:HA	2:CJ:197:HIS:CD2	2.48	0.49
2:CJ:367:ASP:N	2:CJ:367:ASP:OD1	2.43	0.49
2:DB:238:LEU:HD11	2:DB:378:ILE:HD11	1.93	0.49
1:DG:208:TYR:CE2	1:DG:225:LEU:HD11	2.48	0.49
1:DG:239:CYS:HB3	1:DG:248:SER:H	1.78	0.49
2:DL:213:THR:HG23	2:DL:222:PRO:HG2	1.95	0.49
1:E:121:ARG:NH1	1:E:158:GLU:OE2	2.45	0.49
1:ED:173:PRO:HD2	1:ED:380:ARG:NH2	2.28	0.49
2:EE:66:LEU:HD22	2:EE:122:ILE:HG12	1.94	0.49
1:EJ:27:GLU:OE2	1:EJ:318:ARG:NH2	2.41	0.49
1:EJ:175:VAL:O	1:EJ:175:VAL:HG12	2.13	0.49
2:EK:99:ALA:HA	2:EK:105:ARG:HH11	1.78	0.49
2:EK:241:SER:HB3	2:EK:250:VAL:H	1.78	0.49
1:FB:9:ALA:HB2	1:FB:66:MET:HE3	1.93	0.49
2:FC:156:ARG:HA	2:FC:159:VAL:HG12	1.94	0.49
2:FC:291:ILE:O	2:FC:295:VAL:HG23	2.13	0.49
2:FG:174:SER:CB	2:FG:207:GLU:HG3	2.43	0.49
2:FI:175:PRO:HB3	2:FI:390:ARG:HE	1.78	0.49
2:GA:239:THR:HG23	2:GA:243:ARG:HH12	1.78	0.49
1:GB:174:ARG:HB2	1:GB:205:GLU:OE2	2.13	0.49
1:GB:244:GLY:HA3	1:GB:354:CYS:HA	1.95	0.49
2:GE:392:ASP:HB3	2:GE:425:LEU:HD23	1.95	0.49
1:GF:312:THR:HA	1:GF:348:ASN:HB3	1.94	0.49
2:GG:362:VAL:HG12	2:GG:370:LYS:HG3	1.94	0.49
1:GH:232:VAL:O	1:GH:236:VAL:HG23	2.13	0.49
2:GI:142:GLY:HA2	2:GI:183:GLU:HG3	1.94	0.49
1:GJ:179:VAL:HG23	1:GJ:180:VAL:HG13	1.95	0.49
2:GK:156:ARG:HG3	2:GK:156:ARG:HH11	1.78	0.49
1:GL:150:LEU:O	1:GL:154:LYS:HG2	2.12	0.49
1:HB:347:ASN:HD22	2:HC:178:SER:HG	1.53	0.49
1:HD:163:ILE:HG21	1:HD:250:LEU:HB3	1.95	0.49
1:HF:292:GLN:OE1	1:HF:298:ASN:ND2	2.46	0.49
1:HJ:244:GLY:HA3	1:HJ:354:CYS:HA	1.95	0.49
1:HJ:371:ASN:OD1	1:HJ:372:THR:N	2.45	0.49
2:HK:27:GLU:OE2	2:HK:320:ARG:NH2	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HM:191:THR:HG21	2:HM:425:LEU:HD11	1.95	0.49
1:I:172:SER:HB3	1:I:205:GLU:CD	2.38	0.49
2:IC:123:ARG:HH12	2:IC:127:ASP:HB3	1.78	0.49
2:IE:50:ASN:O	2:IE:64:ARG:NH2	2.46	0.49
2:IE:64:ARG:HD3	2:IE:129:CYS:SG	2.53	0.49
2:IM:248:LEU:HB2	2:IM:354:GLY:HA2	1.93	0.49
2:J:274:PRO:HD2	2:J:374:ALA:HA	1.95	0.49
1:JC:301:GLN:NE2	1:JC:377:MET:HE2	2.27	0.49
2:JD:209:ILE:HG21	2:JD:227:VAL:HA	1.95	0.49
1:JG:332:ASN:HB3	1:JG:336:LYS:HZ2	1.78	0.49
1:JI:179:VAL:HG13	1:JI:180:VAL:HG13	1.95	0.49
2:JJ:167:LEU:HD11	2:JJ:252:LEU:HG	1.95	0.49
1:JK:184:ASN:OD1	1:JK:398:TYR:OH	2.25	0.49
2:JL:65:CYS:O	2:JL:91:GLN:NE2	2.22	0.49
1:KA:327:ASP:CG	2:KB:177:VAL:HG21	2.38	0.49
1:KG:314:SER:HB3	1:KG:368:ILE:HB	1.95	0.49
2:KJ:11:GLN:HG3	2:KJ:74:VAL:HG11	1.95	0.49
2:KJ:47:ASP:OD1	49:3Q:258:SER:HB2	2.12	0.49
2:KJ:166:LYS:HB2	2:KJ:199:ASP:H	1.77	0.49
2:KJ:335:ILE:HG23	2:KJ:341:ILE:HD11	1.95	0.49
1:KM:172:SER:HB3	1:KM:175:VAL:HG22	1.93	0.49
1:LA:3:GLU:OE1	1:LA:62:ARG:HD2	2.13	0.49
2:LB:326:LYS:HZ3	1:LC:220:PRO:HG3	1.77	0.49
1:LG:151:LEU:HG	1:LG:155:LEU:HD13	1.95	0.49
2:LH:352:LYS:NZ	2:LH:353:CYS:O	2.45	0.49
2:LJ:67:PHE:HB2	2:LJ:92:LEU:HD12	1.95	0.49
2:LL:251:ASP:H	2:LL:254:GLU:CB	2.24	0.49
1:LM:46:ARG:NH2	2:LN:76:ASP:OD2	2.45	0.49
1:MB:330:MET:HG2	1:MB:349:ILE:HG21	1.94	0.49
2:MC:431:ASP:OD1	2:MC:432:TYR:N	2.46	0.49
1:MD:209:ASP:OD1	1:MD:210:ILE:N	2.46	0.49
2:ME:237:SER:HA	2:ME:320:ARG:HH11	1.76	0.49
1:MH:325:GLU:CD	2:MI:221:ARG:HG3	2.38	0.49
2:MI:318:MET:HA	2:MI:318:MET:HE3	1.94	0.49
1:MJ:318:ARG:HB3	1:MJ:357:PRO:HA	1.94	0.49
2:MM:90:GLU:HB2	2:MM:121:ARG:HE	1.78	0.49
1:MN:167:PHE:HE1	1:MN:268:MET:HE1	1.78	0.49
1:MN:339:SER:HB2	13:0a:72:PRO:HB2	1.94	0.49
1:N:256:ASN:HD21	2:NA:101:ASN:HD22	1.61	0.49
1:N:318:ARG:HB3	1:N:357:PRO:HA	1.95	0.49
2:NA:60:LYS:NZ	41:2o:468:ARG:HH12	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NE:189:LEU:HD13	2:NE:413:MET:HE1	1.95	0.49
2:NI:271:SER:HA	2:NI:302:LEU:HD13	1.95	0.49
1:NJ:87:PRO:HD3	1:OJ:281:TYR:HD2	1.76	0.49
1:NL:58:ARG:HG2	1:NL:59:TYR:N	2.28	0.49
1:NL:173:PRO:HA	1:NL:176:SER:HB2	1.95	0.49
1:O:316:LEU:HG	1:O:352:SER:OG	2.13	0.49
2:OA:236:SER:HB2	2:OA:243:ARG:HH22	1.78	0.49
1:OD:67:ASP:OD1	1:OD:68:LEU:N	2.45	0.49
1:OF:301:GLN:NE2	1:OF:377:MET:HE2	2.28	0.49
2:OM:74:VAL:O	2:OM:78:VAL:HG23	2.13	0.49
2:OM:234:VAL:HG13	2:OM:376:CYS:SG	2.53	0.49
2:PC:326:LYS:NZ	1:PD:208:TYR:HB3	2.27	0.49
2:PC:392:ASP:OD1	2:PC:393:HIS:N	2.46	0.49
2:PE:104:ALA:HB2	2:PE:413:MET:SD	2.53	0.49
2:PE:252:LEU:O	2:PE:255:PHE:HB3	2.12	0.49
2:PG:402:ARG:NE	2:PG:415:GLU:OE2	2.45	0.49
1:PH:22:GLU:HG2	1:PH:81:TYR:CD1	2.48	0.49
2:PI:30:ILE:HG12	2:PI:36:MET:HG2	1.95	0.49
2:PK:256:GLN:O	2:PK:260:VAL:HG12	2.12	0.49
2:PK:263:PRO:HB2	57:3h:31:GLN:NE2	2.28	0.49
2:Q:406:HIS:HA	2:Q:409:VAL:HG12	1.95	0.49
2:QB:326:LYS:HE3	1:QC:212:PHE:CE2	2.48	0.49
1:QC:350:LYS:HG2	2:QD:179:THR:O	2.13	0.49
1:QE:73:MET:HG3	1:QE:92:PHE:CD2	2.48	0.49
1:QG:8:GLN:HE21	1:QG:65:LEU:HD13	1.77	0.49
2:QL:1:MET:HE3	2:QL:1:MET:HA	1.94	0.49
1:RC:63:ALA:O	1:RC:89:ASN:ND2	2.46	0.49
1:RE:248:SER:HA	1:RE:252:LYS:HE2	1.95	0.49
1:RE:287:ALA:HA	1:RE:290:THR:HG22	1.95	0.49
2:RF:26:LEU:HD22	2:RF:363:VAL:HG12	1.95	0.49
2:RH:287:SER:O	2:RH:291:ILE:HG13	2.12	0.49
1:RI:73:MET:HG3	1:RI:92:PHE:HB3	1.95	0.49
1:RI:175:VAL:O	1:RI:175:VAL:HG12	2.13	0.49
2:RL:187:CYS:O	2:RL:191:THR:HG23	2.12	0.49
2:SA:159:VAL:HG22	56:3d:227:LEU:HB3	1.94	0.49
1:SD:178:THR:OG1	1:SD:181:GLU:HG3	2.13	0.49
2:SK:225:THR:O	2:SK:229:ARG:HG3	2.13	0.49
1:T:66:MET:HE1	1:T:151:LEU:HD21	1.94	0.49
1:T:207:LEU:HB3	1:T:225:LEU:HG	1.94	0.49
1:T:229:VAL:HG23	1:T:233:MET:HE1	1.95	0.49
1:TH:164:MET:N	1:TH:197:ASP:OD2	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TJ:178:THR:HB	1:TJ:181:GLU:OE2	2.13	0.49
2:TK:293:ASN:O	2:TK:297:GLU:HG2	2.13	0.49
1:TL:22:GLU:HG2	1:TL:81:TYR:CD1	2.48	0.49
1:TL:141:GLY:HA3	69:TL:500:GDP:PB	2.53	0.49
1:U:207:LEU:HB3	1:U:225:LEU:HD22	1.94	0.49
1:U:404:ASP:OD2	1:U:406:MET:HE1	2.13	0.49
2:UC:16:VAL:HG22	2:UC:231:ILE:HG21	1.95	0.49
1:UF:10:GLY:O	1:UF:14:ASN:ND2	2.46	0.49
1:UF:332:ASN:O	1:UF:336:LYS:HG2	2.13	0.49
2:VA:259:LEU:HD21	2:VA:268:VAL:HG11	1.95	0.49
2:VC:312:TYR:HB2	2:VC:343:PHE:CD1	2.48	0.49
1:VJ:20:PHE:HA	1:VJ:230:ALA:HB1	1.95	0.49
2:VK:53:PHE:HB3	2:VK:61:HIS:HB3	1.95	0.49
1:WB:286:VAL:HG11	1:WB:325:GLU:HB3	1.94	0.49
2:WC:177:VAL:N	2:WC:207:GLU:OE2	2.43	0.49
2:WC:431:ASP:OD2	2:WC:432:TYR:N	2.46	0.49
1:WF:91:ILE:HD11	1:WF:119:VAL:HG21	1.95	0.49
1:WH:138:SER:HA	1:WH:169:VAL:HB	1.95	0.49
2:WK:188:VAL:HG21	2:WK:395:PHE:HB2	1.95	0.49
3:XB:1:MET:HE1	3:XB:62:PRO:HB3	1.94	0.49
3:XB:49:ILE:O	3:XB:159:ASN:N	2.46	0.49
4:XR:241:ARG:HA	4:XR:299:MET:HE3	1.95	0.49
6:0A:249:GLU:HG3	22:1y:142:THR:HG22	1.95	0.49
8:0G:422:VAL:O	8:0G:425:ARG:HG2	2.13	0.49
9:0M:93:PHE:CE1	9:0M:100:LEU:HD13	2.48	0.49
9:0M:380:LEU:HD22	9:0M:392:ALA:HB1	1.95	0.49
9:0M:506:ARG:HH12	9:0M:532:VAL:HG21	1.78	0.49
9:0O:92:ILE:HG12	9:0O:104:MET:HE1	1.94	0.49
10:0R:67:VAL:HG11	46:3B:249:LYS:HG2	1.95	0.49
10:0R:72:ARG:HH21	11:0U:248:SER:HB3	1.78	0.49
10:0R:201:LYS:O	10:0R:205:ILE:HG12	2.13	0.49
16:0k:294:LYS:NZ	16:0k:348:VAL:H	2.11	0.49
16:0k:691:PRO:HB2	27:1S:776:PRO:HB2	1.95	0.49
17:0n:349:ASN:HA	17:0n:352:LYS:HG2	1.94	0.49
17:0n:369:GLU:HA	17:0n:372:ARG:CD	2.43	0.49
21:0w:97:ASP:HB2	21:0w:102:ARG:HH21	1.78	0.49
23:1D:45:MET:HA	23:1D:45:MET:HE3	1.95	0.49
24:1I:8:LYS:HA	24:1I:11:LYS:HE2	1.95	0.49
24:1K:105:VAL:HG21	24:1K:108:SER:HB3	1.95	0.49
24:1K:564:ASP:OD1	24:1K:564:ASP:N	2.46	0.49
24:1K:578:THR:OG1	24:1K:581:GLU:HG2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1Q:721:GLY:O	28:4W:51:LYS:N	2.46	0.49
28:1e:10:LEU:HD23	28:1e:21:ARG:HG2	1.93	0.49
29:1l:27:TRP:CZ3	44:2w:341:HIS:HA	2.47	0.49
32:2B:221:LYS:HD3	32:2B:222:PRO:HD2	1.94	0.49
33:2G:242:ASP:OD2	33:2G:280:ARG:NH1	2.45	0.49
41:2l:348:MET:O	41:2l:352:ARG:HG2	2.13	0.49
46:3B:321:LEU:HD23	46:3B:332:VAL:HG21	1.95	0.49
48:3I:101:ASP:OD1	48:3I:102:ARG:N	2.46	0.49
48:3F:190:ILE:HG12	48:3F:209:LYS:HD2	1.94	0.49
49:3P:345:ARG:HG2	49:3P:386:GLN:NE2	2.27	0.49
56:3d:123:MET:HA	56:3d:126:ARG:CD	2.43	0.49
28:4V:252:ILE:HB	28:4W:19:VAL:CG1	2.43	0.49
1:A:247:ASN:H	2:AA:11:GLN:HE22	1.61	0.48
2:AA:395:PHE:CD2	2:AA:422:ARG:HD3	2.48	0.48
1:AB:19:LYS:HG3	1:AB:226:ASN:HB2	1.94	0.48
1:AB:48:ASN:O	1:AB:62:ARG:NH1	2.46	0.48
2:AE:104:ALA:HB2	2:AE:413:MET:SD	2.53	0.48
2:AE:194:LEU:O	2:AE:266:HIS:NE2	2.41	0.48
1:AF:263:LEU:HD21	1:AF:421:GLU:HG3	1.94	0.48
2:AG:216:SER:OG	2:AG:275:VAL:O	2.31	0.48
2:AG:270:THR:HG23	2:AG:302:LEU:HB2	1.95	0.48
2:AG:271:SER:OG	2:AG:295:VAL:HG13	2.13	0.48
1:AL:16:ILE:HD11	1:AL:229:VAL:HG11	1.95	0.48
2:BC:66:LEU:HD13	2:BC:121:ARG:HG2	1.95	0.48
2:BC:247:ALA:O	1:BD:11:GLN:NE2	2.46	0.48
1:BD:86:ARG:HG2	1:BD:88:ASP:OD2	2.13	0.48
2:BG:71:GLU:HB3	2:BG:98:ASP:HB3	1.95	0.48
1:BH:73:MET:HE2	1:BH:73:MET:HA	1.95	0.48
2:BI:63:PRO:HG2	2:BI:87:PHE:HD1	1.78	0.48
2:BK:27:GLU:OE2	2:BK:320:ARG:NH2	2.41	0.48
2:BM:261:PRO:HD3	2:BM:380:ASN:HD22	1.77	0.48
1:BN:180:VAL:O	1:BN:180:VAL:HG12	2.13	0.48
1:CC:19:LYS:O	1:CC:22:GLU:HB2	2.12	0.48
2:CD:422:ARG:HG3	2:CD:422:ARG:HH11	1.78	0.48
2:CH:297:GLU:CD	2:CH:298:PRO:HD2	2.38	0.48
2:CJ:377:MET:SD	2:CJ:379:ALA:HB2	2.54	0.48
1:CK:242:PHE:HB2	1:CK:354:CYS:SG	2.53	0.48
1:CM:21:TRP:CZ2	1:CM:63:ALA:HB2	2.48	0.48
2:D:145:THR:N	71:D:501:GTP:O1G	2.32	0.48
1:DA:178:THR:HB	1:DA:181:GLU:OE2	2.13	0.48
1:DC:242:PHE:HB2	1:DC:354:CYS:SG	2.53	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DD:257:THR:HG1	1:DE:397:TRP:CD1	2.31	0.48
1:DG:246:LEU:HA	2:DH:11:GLN:OE1	2.13	0.48
2:DH:76:ASP:OD1	2:DH:79:ARG:NH1	2.46	0.48
2:DJ:3:GLU:HA	2:DJ:51:THR:HA	1.94	0.48
1:DM:135:LEU:HG	1:DM:137:HIS:HD2	1.77	0.48
1:E:310:TYR:O	1:E:348:ASN:ND2	2.45	0.48
1:EB:67:ASP:OD1	1:EB:143:THR:HG21	2.13	0.48
2:EC:188:VAL:HG23	2:EC:425:LEU:HD22	1.95	0.48
1:EJ:60:VAL:HG11	1:FJ:281:TYR:HB3	1.95	0.48
2:EK:212:LEU:HD21	2:EK:275:VAL:HG11	1.95	0.48
2:FA:296:PHE:CZ	2:FA:377:MET:HE1	2.48	0.48
2:FE:117:LEU:O	2:FE:121:ARG:HG2	2.12	0.48
2:FI:166:LYS:H	2:FI:199:ASP:HB2	1.77	0.48
2:FK:328:VAL:O	2:FK:332:ILE:HG12	2.12	0.48
1:FL:118:ASP:O	1:FL:122:LYS:HG2	2.13	0.48
1:GB:65:LEU:O	1:GB:66:MET:HE2	2.13	0.48
1:GB:215:LEU:HB3	1:GB:217:LEU:HG	1.94	0.48
1:GB:344:TRP:HB3	1:GB:430:VAL:HG12	1.95	0.48
2:GC:331:ALA:O	2:GC:335:ILE:HG12	2.13	0.48
2:GE:365:GLY:N	10:0R:164:ARG:HH21	2.10	0.48
1:GH:257:LEU:HB3	1:GH:266:PHE:HE2	1.78	0.48
2:GI:204:LEU:HD13	2:GI:231:ILE:HD13	1.95	0.48
1:GJ:61:PRO:HD3	1:GJ:84:LEU:HG	1.94	0.48
2:HA:251:ASP:H	2:HA:254:GLU:HB3	1.76	0.48
1:HB:234:SER:O	1:HB:241:ARG:NH2	2.46	0.48
2:HC:277:SER:OG	2:HC:278:ALA:N	2.47	0.48
2:HC:402:ARG:HB3	2:HC:405:VAL:HG21	1.95	0.48
2:HI:167:LEU:HD11	2:HI:252:LEU:HD22	1.94	0.48
2:HK:102:ASN:HB3	2:HK:105:ARG:HB2	1.94	0.48
1:HL:9:ALA:HB3	1:HL:137:HIS:HB3	1.95	0.48
1:IB:43:GLN:NE2	38:2U:189:LYS:HE2	2.27	0.48
1:ID:97:ALA:HB2	1:ID:143:THR:HB	1.95	0.48
2:IE:246:GLY:H	2:IE:249:ASN:HD21	1.59	0.48
2:IE:262:TYR:HB2	2:IE:265:ILE:HG12	1.94	0.48
1:IF:3:GLU:H	1:IF:131:GLN:H	1.60	0.48
2:IG:388:PHE:HA	2:IG:391:ILE:HG22	1.95	0.48
2:II:140:ALA:HB3	71:II:501:GTP:H5'	1.95	0.48
1:IJ:307:HIS:O	1:IJ:426:GLN:NE2	2.46	0.48
2:J:388:PHE:HA	2:J:391:ILE:HG22	1.95	0.48
1:JA:290:THR:HA	1:JA:293:MET:HG2	1.94	0.48
1:JC:379:ARG:HH12	1:JC:419:VAL:HG11	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JD:286:LEU:O	2:JD:373:ARG:NH1	2.42	0.48
2:JD:424:ASP:OD1	2:NC:339:ARG:NH2	2.46	0.48
1:JI:72:THR:O	1:JI:76:VAL:HG23	2.12	0.48
1:JK:3:GLU:OE2	1:JK:127:CYS:HB3	2.13	0.48
1:JK:323:THR:HG22	2:JL:223:SER:HA	1.95	0.48
1:JM:8:GLN:HB2	1:JM:65:LEU:HD13	1.95	0.48
2:JN:430:LYS:HE3	60:3t:76:MET:HE2	1.94	0.48
1:KI:272:PRO:HD3	1:KI:364:SER:HA	1.95	0.48
2:KJ:122:ILE:HG21	2:KJ:157:LEU:HD11	1.94	0.48
1:KK:32:PRO:HD2	49:3Q:223:SER:O	2.13	0.48
2:KL:251:ASP:H	2:KL:254:GLU:HB3	1.77	0.48
1:KM:86:ARG:NH1	1:LM:281:TYR:O	2.46	0.48
1:KM:91:ILE:HD11	1:KM:116:VAL:HG22	1.94	0.48
1:KM:172:SER:HB2	1:KM:203:ASP:OD1	2.13	0.48
1:KM:334:GLN:HE22	1:KM:348:ASN:HD22	1.61	0.48
2:KN:142:GLY:CA	2:KN:183:GLU:HG3	2.43	0.48
1:LA:210:ILE:HD12	1:LA:300:MET:HB3	1.95	0.48
2:LB:11:GLN:N	71:LB:501:GTP:O2B	2.44	0.48
2:LH:319:TYR:HB3	2:LH:323:VAL:HG21	1.94	0.48
2:LL:328:VAL:O	2:LL:332:ILE:HG12	2.13	0.48
1:LO:113:ILE:HD13	1:LO:154:LYS:HD2	1.95	0.48
1:M:91:ILE:HG22	1:M:112:LEU:HD21	1.94	0.48
1:MD:252:LYS:HZ3	2:ME:101:ASN:N	2.11	0.48
2:MI:138:PHE:HE2	2:MI:235:VAL:HG21	1.78	0.48
2:MI:333:ALA:O	2:MI:337:THR:HG23	2.13	0.48
1:MJ:334:GLN:OE1	1:MJ:348:ASN:N	2.45	0.48
2:MK:104:ALA:HB2	2:MK:413:MET:HE3	1.95	0.48
1:ML:259:PRO:HG3	1:ML:311:LEU:HD12	1.95	0.48
1:ML:350:LYS:HG2	2:MM:179:THR:O	2.12	0.48
2:MM:91:GLN:HG2	2:MM:125:LEU:HD11	1.95	0.48
2:MM:237:SER:HA	2:MM:320:ARG:HH11	1.78	0.48
1:MN:417:ASP:O	1:MN:421:GLU:HG3	2.13	0.48
2:NA:58:ALA:HB1	41:2o:468:ARG:HH22	1.74	0.48
2:NA:257:THR:HG1	1:NB:397:TRP:CG	2.31	0.48
1:ND:19:LYS:HG3	1:ND:22:GLU:OE2	2.13	0.48
1:ND:312:THR:HA	1:ND:348:ASN:HB3	1.95	0.48
2:NG:312:TYR:HD1	2:NG:381:SER:HB2	1.78	0.48
1:NJ:246:LEU:HD11	2:NK:179:THR:HG21	1.93	0.48
2:NM:167:LEU:HD23	2:NM:252:LEU:HD12	1.93	0.48
1:OB:172:SER:OG	1:OB:380:ARG:NH2	2.46	0.48
1:OB:375:GLN:HE22	1:OB:419:VAL:CA	2.23	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OC:203:MET:N	2:OC:203:MET:HE2	2.28	0.48
2:OG:264:ARG:HG3	2:OG:264:ARG:HH11	1.78	0.48
1:OH:313:ALA:HB1	1:OH:367:PHE:CE1	2.48	0.48
2:OI:21:TRP:CZ2	2:OI:65:CYS:HB3	2.48	0.48
1:OJ:163:ILE:HG21	1:OJ:250:LEU:HB3	1.94	0.48
2:OK:288:VAL:O	2:OK:291:ILE:HG22	2.13	0.48
1:OL:251:ARG:NH2	2:OM:105:ARG:HH12	2.10	0.48
1:OL:272:PRO:HD3	1:OL:364:SER:HA	1.95	0.48
2:OM:216:SER:C	2:OM:280:LYS:HZ3	2.20	0.48
1:P:290:THR:HA	1:P:293:MET:HG2	1.95	0.48
1:PF:9:ALA:HB2	1:PF:66:MET:HE3	1.95	0.48
1:PF:309:ARG:O	1:PF:372:THR:HG23	2.13	0.48
1:PF:332:ASN:HB3	1:PF:336:LYS:NZ	2.28	0.48
1:PH:325:GLU:OE2	2:PI:221:ARG:HA	2.13	0.48
1:PJ:232:VAL:HG11	1:PJ:268:MET:HE2	1.95	0.48
1:PL:253:LEU:HD11	1:PL:368:ILE:HD12	1.94	0.48
2:Q:259:LEU:HD21	2:Q:268:VAL:HG11	1.95	0.48
1:QA:395:LEU:HD11	1:QA:408:PHE:CE2	2.48	0.48
2:QD:319:TYR:CE1	2:QD:328:VAL:HG13	2.47	0.48
1:QE:113:ILE:HA	1:QE:116:VAL:HG12	1.94	0.48
2:QF:103:TYR:HB3	2:QF:408:TYR:HE2	1.77	0.48
2:QH:291:ILE:HD13	2:QH:373:ARG:HB3	1.94	0.48
2:R:5:ILE:HG12	2:R:132:LEU:HD13	1.95	0.48
1:RA:156:ARG:NH1	1:RA:197:ASP:OD1	2.46	0.48
1:RA:295:ASP:OD2	1:RA:297:LYS:HG2	2.13	0.48
1:RC:44:LEU:HD11	1:RC:59:TYR:OH	2.13	0.48
1:RE:421:GLU:HA	1:RE:424:GLN:HE21	1.78	0.48
2:RH:79:ARG:O	2:RH:84:ARG:HG2	2.13	0.48
1:RK:86:ARG:HG2	1:SJ:281:TYR:HB3	1.95	0.48
2:SA:234:VAL:HG21	2:SA:302:LEU:HD11	1.94	0.48
2:SK:159:VAL:HG21	57:3i:167:TYR:CD2	2.45	0.48
2:TC:342:GLN:HE21	61:3w:213:ARG:HH11	1.60	0.48
1:TH:279:GLN:HB3	21:0w:195:PHE:CZ	2.48	0.48
1:TH:289:LEU:HD21	1:TH:363:MET:HG3	1.95	0.48
1:TH:344:TRP:HZ3	2:TI:403:ALA:HB2	1.78	0.48
2:TK:256:GLN:O	2:TK:260:VAL:HG12	2.12	0.48
2:TK:322:ASP:OD1	2:TK:373:ARG:NE	2.43	0.48
2:UC:21:TRP:NE1	2:UC:65:CYS:SG	2.86	0.48
2:UC:395:PHE:CD1	2:UC:422:ARG:HD3	2.47	0.48
1:UD:391:ARG:HG3	1:UD:391:ARG:HH11	1.78	0.48
2:UE:298:PRO:HA	2:UE:301:MET:HE3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:UG:345:ASP:OD1	2:UG:346:TRP:N	2.46	0.48
1:UH:267:MET:O	1:UH:268:MET:HE2	2.12	0.48
2:UI:21:TRP:CZ2	2:UI:65:CYS:HB3	2.47	0.48
1:UJ:175:VAL:O	1:UJ:175:VAL:HG12	2.13	0.48
1:UJ:295:ASP:OD2	1:UJ:297:LYS:NZ	2.35	0.48
1:V:379:ARG:O	1:V:383:GLU:HG2	2.13	0.48
2:VE:396:ASP:OD2	2:VE:422:ARG:NH2	2.37	0.48
1:VF:293:MET:HE1	1:VF:317:PHE:CZ	2.48	0.48
2:VG:288:VAL:HB	2:VG:327:ASP:HB3	1.95	0.48
1:VH:77:ARG:NH1	1:VH:83:GLN:HA	2.28	0.48
1:VJ:3:GLU:HG3	1:VJ:127:CYS:HB3	1.95	0.48
2:VK:3:GLU:HA	2:VK:51:THR:HG23	1.95	0.48
2:WA:212:LEU:HD21	2:WA:275:VAL:HG21	1.94	0.48
2:WA:402:ARG:HB3	2:WA:405:VAL:HG11	1.94	0.48
1:WB:268:MET:H	1:WB:299:MET:HE1	1.78	0.48
2:WI:104:ALA:HB2	2:WI:413:MET:SD	2.53	0.48
2:WI:396:ASP:CG	2:WI:422:ARG:HE	2.21	0.48
2:WK:238:LEU:HD12	2:WK:318:MET:HG3	1.93	0.48
2:WK:260:VAL:HG23	2:WK:265:ILE:O	2.13	0.48
1:WL:263:LEU:HD22	1:WL:422:TYR:CE1	2.48	0.48
2:WM:160:ASP:OD1	2:WM:161:TYR:N	2.46	0.48
3:XC:14:LEU:HD12	3:XC:25:TRP:CE2	2.48	0.48
3:XC:106:SER:OG	3:XC:109:GLN:HG2	2.12	0.48
3:XE:25:TRP:CD2	3:XE:61:CYS:HB2	2.48	0.48
4:XO:90:ARG:HG2	4:XO:95:ALA:HB2	1.95	0.48
4:XO:241:ARG:HA	4:XO:299:MET:SD	2.53	0.48
6:0A:79:ILE:HG13	6:0A:87:ALA:HB3	1.94	0.48
8:0F:53:ASP:OD1	8:0F:55:HIS:NE2	2.42	0.48
8:0F:124:ASP:N	8:0F:124:ASP:OD1	2.46	0.48
8:0H:453:VAL:HB	8:0H:457:ARG:HH21	1.78	0.48
9:0M:131:ASP:OD2	9:0M:133:THR:HG22	2.12	0.48
9:0N:323:HIS:NE2	9:0N:342:THR:OG1	2.37	0.48
9:0N:470:ASN:HD21	9:0N:486:ASP:CG	2.19	0.48
10:0R:39:GLU:OE1	10:0R:43:ARG:NH1	2.46	0.48
11:0U:205:PRO:HD2	11:0U:260:GLN:NE2	2.27	0.48
16:0l:315:ARG:HD3	16:0l:317:GLU:H	1.77	0.48
16:0l:778:GLN:HE22	16:0l:859:VAL:HG21	1.77	0.48
16:0k:728:CYS:N	16:0k:732:SER:OG	2.45	0.48
20:0u:268:HIS:H	20:0u:271:GLN:HE21	1.61	0.48
23:1E:106:VAL:HG13	24:1J:28:MET:CE	2.42	0.48
23:1F:372:GLU:O	23:1F:376:GLN:HG3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:1H:342:ASP:O	24:1H:347:ASN:ND2	2.46	0.48
24:1H:477:VAL:HG21	24:1H:498:LEU:HD13	1.94	0.48
24:1K:590:ASP:OD1	24:1K:591:LYS:N	2.46	0.48
26:1Q:90:PHE:HB2	26:1Q:170:ASP:HB3	1.94	0.48
27:1S:542:PRO:HG2	27:1S:545:ALA:HB2	1.95	0.48
32:2C:8:LEU:HD21	32:2C:21:LEU:HD23	1.95	0.48
37:2S:43:PHE:HB2	37:2S:235:TYR:HB3	1.95	0.48
44:2v:374:PRO:HD2	44:2v:377:GLU:CD	2.38	0.48
44:2w:312:VAL:HG13	44:2w:382:TYR:HD2	1.78	0.48
46:3B:38:LEU:HD22	46:3B:42:ARG:NH2	2.28	0.48
49:3Q:30:LYS:HD2	52:3U:217:PRO:HG2	1.95	0.48
54:3a:79:THR:O	54:3a:83:VAL:HG13	2.13	0.48
59:4a:217:LYS:HG2	59:4a:218:PRO:HD2	1.94	0.48
65:5G:152:LEU:O	65:5G:155:SER:OG	2.28	0.48
1:AB:272:PRO:HG3	1:AB:289:LEU:HD11	1.94	0.48
2:AC:250:VAL:HA	2:AC:254:GLU:HG2	1.95	0.48
1:AD:27:GLU:CD	1:AD:241:ARG:HH12	2.21	0.48
1:AD:395:LEU:HD12	1:AD:395:LEU:HA	1.69	0.48
1:AF:217:LEU:HB2	1:AF:220:PRO:HD3	1.94	0.48
2:AI:187:CYS:O	2:AI:191:THR:HG23	2.13	0.48
2:AI:241:SER:OG	2:AI:250:VAL:O	2.25	0.48
1:AJ:66:MET:SD	1:AJ:116:VAL:HG11	2.52	0.48
1:AL:311:LEU:HA	1:AL:342:ILE:HD12	1.95	0.48
1:B:20:PHE:O	1:B:24:ILE:HG12	2.13	0.48
2:BA:392:ASP:HB2	2:BA:422:ARG:NE	2.28	0.48
2:BC:212:LEU:HD21	2:BC:275:VAL:HG21	1.95	0.48
2:BC:234:VAL:HG21	2:BC:302:LEU:HD21	1.94	0.48
2:BC:388:PHE:HA	2:BC:391:ILE:HG22	1.95	0.48
1:BD:121:ARG:NH2	1:BD:158:GLU:OE2	2.46	0.48
2:BE:373:ARG:HG2	2:BE:373:ARG:HH11	1.78	0.48
2:BI:256:GLN:HG2	1:BJ:397:TRP:CH2	2.48	0.48
1:CC:322:SER:HB2	1:CC:324:LYS:HZ3	1.77	0.48
2:CD:223:SER:OG	2:CD:224:TYR:N	2.45	0.48
2:CD:367:ASP:HA	16:0k:441:ARG:HH22	1.77	0.48
2:CF:99:ALA:HA	2:CF:110:ILE:HD11	1.95	0.48
2:CF:104:ALA:HB2	2:CF:413:MET:SD	2.54	0.48
1:CK:299:MET:HA	1:CK:299:MET:HE2	1.95	0.48
1:CK:403:MET:HG3	1:CK:407:GLU:OE1	2.13	0.48
1:DE:257:LEU:HD13	1:DE:368:ILE:HG21	1.96	0.48
1:DE:371:ASN:OD1	1:DE:372:THR:N	2.46	0.48
2:DJ:269:LEU:HD23	2:DJ:301:MET:SD	2.54	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DK:67:ASP:OD1	1:DK:143:THR:HG21	2.13	0.48
1:DK:379:ARG:HE	1:DK:419:VAL:HG11	1.78	0.48
1:E:232:VAL:HG23	1:E:366:THR:HG23	1.94	0.48
1:ED:289:LEU:HD22	1:ED:365:VAL:HG12	1.95	0.48
1:EH:247:ASN:H	2:EI:11:GLN:HE22	1.61	0.48
1:EH:290:THR:HA	1:EH:293:MET:HE2	1.95	0.48
2:EI:188:VAL:O	2:EI:191:THR:HG22	2.13	0.48
1:F:22:GLU:HG3	1:F:81:TYR:CD1	2.48	0.48
1:F:121:ARG:HB3	59:4O:90:PRO:HD2	1.96	0.48
1:FJ:99:ASN:HD21	1:FJ:178:THR:HG23	1.77	0.48
2:FK:195:LEU:HD21	2:FK:264:ARG:HE	1.77	0.48
1:FL:237:THR:HG22	1:FL:250:LEU:HD21	1.95	0.48
2:GC:149:LEU:O	2:GC:153:LEU:HD23	2.12	0.48
2:GE:31:GLN:HG2	2:GE:37:PRO:HD3	1.95	0.48
1:GF:200:MET:HG2	1:GF:268:MET:CE	2.39	0.48
1:GH:257:LEU:HD11	1:GH:314:SER:HB2	1.96	0.48
1:GH:316:LEU:HD13	1:GH:352:SER:OG	2.13	0.48
1:GJ:55:SER:H	1:HJ:283:GLY:HA2	1.78	0.48
1:GL:165:MET:SD	1:GL:200:MET:HE1	2.53	0.48
1:GL:334:GLN:NE2	1:GL:348:ASN:H	2.11	0.48
1:GL:336:LYS:HB2	59:4P:89:ARG:HH21	1.78	0.48
1:H:324:LYS:HZ1	2:HA:221:ARG:HA	1.78	0.48
2:HC:75:VAL:HG21	2:HC:94:SER:HB2	1.94	0.48
2:HC:426:ALA:HA	2:HC:429:GLU:HG2	1.95	0.48
2:HE:204:LEU:HD22	2:HE:231:ILE:HD12	1.95	0.48
1:HF:322:SER:OG	2:HG:222:PRO:O	2.29	0.48
1:HJ:314:SER:HB3	1:HJ:368:ILE:HG23	1.94	0.48
1:I:234:SER:O	1:I:241:ARG:NH2	2.44	0.48
2:IA:388:PHE:HA	2:IA:391:ILE:HG22	1.94	0.48
2:IC:364:PRO:HD2	38:2U:202:PRO:HB2	1.96	0.48
1:ID:52:ASP:HA	19:0r:31:TYR:HE1	1.78	0.48
2:IE:191:THR:HG21	2:IE:425:LEU:HD13	1.94	0.48
2:IG:377:MET:SD	2:IG:379:ALA:HB2	2.53	0.48
1:IJ:371:ASN:ND2	1:IJ:373:CYS:SG	2.86	0.48
1:IL:191:GLN:O	1:IL:195:ASN:HB2	2.13	0.48
2:IM:66:LEU:HD12	2:IM:91:GLN:HA	1.94	0.48
1:JA:4:ILE:HD11	1:JA:240:LEU:HD13	1.95	0.48
2:JB:1:MET:N	2:JB:3:GLU:OE2	2.44	0.48
2:JB:246:GLY:HA2	2:JB:357:TYR:CD1	2.49	0.48
1:JC:189:VAL:HB	1:JC:415:MET:HE1	1.96	0.48
2:JD:219:ILE:HD11	2:JD:367:ASP:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JF:329:ASN:HD21	1:JG:175:VAL:HG13	1.78	0.48
1:JI:360:GLY:N	52:3U:146:GLN:HE22	2.08	0.48
1:JK:61:PRO:HD3	1:JK:84:LEU:HG	1.95	0.48
1:KA:310:TYR:HA	1:KA:371:ASN:HA	1.94	0.48
1:KE:310:TYR:HA	1:KE:371:ASN:HA	1.95	0.48
1:KE:328:GLU:OE2	1:KE:332:ASN:ND2	2.42	0.48
1:KI:36:TYR:OH	1:KI:40:SER:O	2.31	0.48
1:KK:172:SER:HB3	1:KK:175:VAL:HB	1.93	0.48
2:KL:88:ASN:OD1	2:KL:90:GLU:HG3	2.13	0.48
2:KL:252:LEU:HA	2:KL:255:PHE:CE1	2.48	0.48
2:KL:437:ALA:O	1:KM:391:ARG:NH2	2.46	0.48
1:LC:166:THR:HG1	1:LC:199:SER:HG	1.61	0.48
1:LC:191:GLN:O	1:LC:195:ASN:ND2	2.38	0.48
2:LH:105:ARG:NH1	2:LH:110:ILE:HG13	2.28	0.48
2:LH:298:PRO:HB3	2:LH:307:PRO:HD2	1.96	0.48
1:LM:291:GLN:HE22	1:LM:336:LYS:NZ	2.11	0.48
1:LM:398:TYR:O	1:LM:403:MET:HB2	2.13	0.48
2:LN:335:ILE:HG23	2:LN:341:ILE:HD11	1.95	0.48
2:MA:21:TRP:CZ2	2:MA:65:CYS:HB3	2.48	0.48
2:MA:334:THR:O	2:MA:338:LYS:HG2	2.13	0.48
2:MC:258:ASN:HD22	1:MD:179:VAL:HG22	1.78	0.48
1:MD:290:THR:HA	1:MD:293:MET:HG2	1.94	0.48
1:MD:311:LEU:HD23	1:MD:342:ILE:HD13	1.95	0.48
2:ME:207:GLU:HB3	2:ME:304:LYS:HE3	1.95	0.48
1:ML:51:PHE:HB3	1:ML:59:TYR:HB3	1.95	0.48
2:MM:295:VAL:HG21	2:MM:375:VAL:HG13	1.95	0.48
1:N:249:ASP:H	1:N:252:LYS:HB3	1.78	0.48
1:NB:11:GLN:HE22	69:NB:500:GDP:H8	1.59	0.48
2:NE:71:GLU:OE1	2:NE:73:THR:OG1	2.30	0.48
2:NG:250:VAL:HG11	2:NG:318:MET:HE1	1.95	0.48
1:NH:60:VAL:HG11	1:NH:86:ARG:HE	1.76	0.48
2:NK:238:LEU:HD13	2:NK:318:MET:HE3	1.94	0.48
2:NM:57:GLY:H	2:OM:285:GLN:HA	1.77	0.48
2:OA:174:SER:HB3	2:OA:177:VAL:O	2.13	0.48
2:OC:328:VAL:O	2:OC:332:ILE:HG12	2.13	0.48
1:OD:253:LEU:HD21	1:OD:316:LEU:HD11	1.95	0.48
2:OE:121:ARG:HE	2:OE:124:LYS:NZ	2.11	0.48
1:OF:286:VAL:HG22	1:OF:321:MET:HE3	1.94	0.48
2:OI:155:GLU:HG2	2:OI:197:HIS:CD2	2.48	0.48
2:OK:6:CYS:O	2:OK:65:CYS:HA	2.13	0.48
2:OK:21:TRP:CZ2	2:OK:65:CYS:HB3	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OL:101:TRP:HB3	1:OL:398:TYR:HE2	1.79	0.48
1:OL:211:CYS:SG	1:OL:217:LEU:HD21	2.53	0.48
2:OM:330:ALA:O	2:OM:334:THR:HG23	2.13	0.48
1:P:191:GLN:O	1:P:195:ASN:HB2	2.13	0.48
1:P:342:ILE:HD11	1:P:344:TRP:CH2	2.47	0.48
1:PB:175:VAL:O	1:PB:175:VAL:HG12	2.13	0.48
1:PD:178:THR:HG22	1:PD:180:VAL:H	1.78	0.48
2:PE:116:ASP:OD1	59:4a:213:TYR:HB2	2.13	0.48
1:PF:266:PHE:HE1	1:PF:370:ASN:HD22	1.60	0.48
1:PL:171:PRO:HD2	1:PL:181:GLU:OE2	2.13	0.48
1:PL:208:TYR:HE1	1:PL:225:LEU:HD11	1.73	0.48
2:PM:237:SER:HA	2:PM:320:ARG:HD2	1.94	0.48
1:QC:210:ILE:O	1:QC:214:THR:HB	2.13	0.48
2:QD:71:GLU:HB3	2:QD:98:ASP:HB3	1.94	0.48
2:QF:175:PRO:HB2	2:QF:176:GLN:OE1	2.13	0.48
1:QG:229:VAL:O	1:QG:233:MET:HG3	2.12	0.48
2:QH:184:PRO:HB2	2:QH:398:MET:HE1	1.95	0.48
2:QH:260:VAL:HG23	1:QI:397:TRP:HE1	1.78	0.48
2:QL:71:GLU:HG3	2:QL:98:ASP:HB2	1.95	0.48
2:R:169:TYR:OH	2:R:238:LEU:HD23	2.13	0.48
1:RA:383:GLU:HA	1:RA:386:THR:HG22	1.94	0.48
1:RC:384:GLN:O	1:RC:388:MET:HG3	2.13	0.48
2:RD:138:PHE:HZ	2:RD:235:VAL:HG21	1.78	0.48
1:RE:73:MET:HG3	1:RE:92:PHE:HB3	1.95	0.48
2:RF:155:GLU:HG2	2:RF:197:HIS:CE1	2.47	0.48
2:RJ:122:ILE:HG21	2:RJ:157:LEU:HD21	1.95	0.48
2:RJ:346:TRP:CZ3	1:RK:393:ALA:HB3	2.47	0.48
1:RK:193:VAL:HA	1:RK:264:HIS:CE1	2.47	0.48
1:SD:381:VAL:HA	1:SD:384:GLN:HB3	1.95	0.48
1:TB:210:ILE:HD11	1:TB:300:MET:HB3	1.95	0.48
1:TD:229:VAL:O	1:TD:233:MET:HG3	2.13	0.48
2:TI:118:ALA:O	2:TI:122:ILE:HG12	2.13	0.48
2:TK:31:GLN:HG2	2:TK:37:PRO:HD3	1.95	0.48
2:UC:260:VAL:HB	1:UD:397:TRP:HZ2	1.77	0.48
1:UF:100:ASN:HB3	1:UF:103:LYS:HB3	1.95	0.48
2:UG:177:VAL:N	2:UG:207:GLU:OE2	2.45	0.48
1:UH:209:ASP:O	1:UH:213:ARG:HG2	2.13	0.48
1:V:65:LEU:HD13	1:V:90:PHE:CE1	2.48	0.48
1:V:135:LEU:HD22	1:V:151:LEU:HD23	1.95	0.48
1:V:257:LEU:HB3	1:V:266:PHE:CE1	2.48	0.48
1:VB:58:ARG:NH2	1:VB:83:GLN:O	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VB:165:MET:HE2	1:VB:167:PHE:CZ	2.48	0.48
1:VD:382:GLY:O	1:VD:386:THR:HG23	2.13	0.48
2:VE:153:LEU:O	2:VE:157:LEU:HD23	2.13	0.48
2:VG:285:GLN:HE22	2:VG:287:SER:HB3	1.78	0.48
2:VI:103:TYR:HB3	2:VI:408:TYR:HE2	1.77	0.48
1:VL:272:PRO:HD3	1:VL:364:SER:HA	1.95	0.48
2:VM:3:GLU:HA	2:VM:51:THR:HA	1.95	0.48
2:WA:217:LEU:HD22	2:WA:367:ASP:HB2	1.94	0.48
1:WB:215:LEU:HD21	1:WB:273:LEU:HD22	1.95	0.48
2:WE:141:VAL:HG13	2:WE:170:THR:HG21	1.95	0.48
1:WF:270:PHE:O	1:WF:298:ASN:ND2	2.42	0.48
1:WH:2:ARG:NH1	2:WI:72:PRO:HD2	2.28	0.48
1:WH:175:VAL:O	1:WH:175:VAL:HG12	2.14	0.48
1:WJ:309:ARG:NH1	1:WJ:339:SER:O	2.46	0.48
3:XD:72:LYS:HD2	4:XQ:129:ARG:HG2	1.94	0.48
3:XF:75:PHE:HE1	3:XF:171:LEU:HG	1.78	0.48
4:XO:133:PRO:HB3	4:XO:147:LYS:HD3	1.95	0.48
5:XP:306:MET:HE3	5:XP:306:MET:HB3	1.72	0.48
7:0D:344:TYR:CE1	17:0n:54:LEU:HD12	2.48	0.48
9:0M:329:ASP:HB3	9:0M:343:CYS:SG	2.53	0.48
9:0M:506:ARG:NH1	9:0M:532:VAL:HG21	2.28	0.48
10:0S:278:GLU:O	10:0S:282:ARG:HG2	2.13	0.48
14:0c:27:LEU:HA	14:0c:30:LYS:HZ2	1.77	0.48
14:0c:317:ARG:O	14:0c:321:THR:HG23	2.14	0.48
14:0c:319:ARG:O	14:0c:323:LEU:HG	2.13	0.48
16:0l:544:ARG:HB3	16:0l:546:LEU:HG	1.94	0.48
16:0k:170:PHE:O	16:0k:174:LEU:HG	2.12	0.48
16:0k:316:PRO:HA	16:0k:319:ILE:HG12	1.94	0.48
17:0n:13:ARG:HA	17:0n:16:ARG:HG3	1.94	0.48
22:0z:182:LEU:HD11	31:1s:154:LEU:HD13	1.95	0.48
24:1K:452:ASN:OD1	24:1K:487:ALA:N	2.43	0.48
24:1K:530:LYS:HE3	24:1K:534:LYS:HE2	1.96	0.48
25:1O:530:PHE:CE1	25:1O:536:VAL:HG21	2.47	0.48
26:1Q:156:GLY:N	26:1Q:168:LEU:O	2.46	0.48
31:1r:238:SER:OG	31:1r:241:ASN:OD1	2.30	0.48
22:1w:245:TYR:O	22:1w:249:ARG:HG2	2.13	0.48
42:2r:189:ALA:O	42:2r:193:ILE:HG12	2.13	0.48
43:2t:157:LYS:HB3	43:2t:195:VAL:HG23	1.95	0.48
45:2z:164:LEU:O	45:2z:168:ARG:HD2	2.12	0.48
48:3F:52:ARG:HD2	48:3F:56:ARG:NH2	2.28	0.48
49:3Q:321:ILE:HA	52:3U:407:VAL:HG23	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:3Q:400:ARG:NE	49:3Q:486:ASP:OD1	2.47	0.48
57:3f:60:ASP:OD1	57:3f:61:GLU:N	2.47	0.48
64:5C:228:ARG:HA	64:5C:231:ILE:HG22	1.95	0.48
67:5P:58:GLU:N	67:5P:58:GLU:OE1	2.46	0.48
2:AA:271:SER:OG	2:AA:295:VAL:HG13	2.13	0.48
1:AB:238:CYS:SG	1:AB:239:CYS:N	2.86	0.48
1:AD:424:GLN:O	1:AD:428:ALA:HB2	2.13	0.48
2:AI:319:TYR:HB3	2:AI:323:VAL:HG21	1.95	0.48
1:AL:391:ARG:HA	3:XE:99:MET:HE1	1.95	0.48
2:AM:142:GLY:HA2	2:AM:183:GLU:HG3	1.94	0.48
2:AM:340:THR:HG23	2:AM:341:ILE:HG23	1.94	0.48
2:AM:377:MET:SD	2:AM:379:ALA:HB2	2.53	0.48
1:B:245:GLN:OE1	2:BA:224:TYR:HB2	2.14	0.48
1:B:286:VAL:HG11	1:B:325:GLU:HG2	1.95	0.48
1:BB:180:VAL:O	1:BB:180:VAL:HG12	2.13	0.48
2:BC:70:LEU:HD22	2:BC:110:ILE:HG22	1.93	0.48
2:BE:15:GLN:HB3	2:BE:228:ASN:ND2	2.28	0.48
2:BE:329:ASN:ND2	1:BF:175:VAL:HG22	2.29	0.48
2:BI:102:ASN:HB3	2:BI:105:ARG:HB2	1.96	0.48
1:BJ:279:GLN:HE22	24:1I:108:SER:HB2	1.78	0.48
1:BJ:322:SER:HB3	2:BK:221:ARG:HG3	1.95	0.48
2:BM:183:GLU:HA	2:BM:186:ASN:HD22	1.78	0.48
2:BM:326:LYS:HG3	1:BN:219:THR:HA	1.95	0.48
1:BN:217:LEU:HD11	1:BN:220:PRO:HB3	1.94	0.48
1:BN:276:ARG:HB3	24:1K:141:PHE:CD1	2.49	0.48
2:C:325:PRO:HA	2:C:328:VAL:HB	1.95	0.48
1:CA:207:LEU:HB3	1:CA:225:LEU:HG	1.95	0.48
2:CB:226:ASN:OD1	16:0k:687:ARG:NH2	2.46	0.48
1:CC:87:PRO:HD3	1:DC:281:TYR:CE2	2.49	0.48
1:CC:163:ILE:HG21	1:CC:250:LEU:HB3	1.94	0.48
2:CD:46:ASP:OD2	26:1Q:265:ARG:NH2	2.45	0.48
1:CE:255:VAL:HG23	2:CF:407:TRP:CG	2.48	0.48
1:CE:384:GLN:O	1:CE:388:MET:HG3	2.14	0.48
2:CH:236:SER:O	2:CH:243:ARG:NH2	2.47	0.48
2:D:240:ALA:HA	2:D:243:ARG:HE	1.79	0.48
2:DD:246:GLY:HA3	2:DD:356:ASN:HA	1.95	0.48
1:DE:165:MET:HG3	1:DE:198:GLU:HG3	1.94	0.48
2:DF:27:GLU:OE1	2:DF:243:ARG:NH1	2.44	0.48
1:DK:3:GLU:O	1:DK:131:GLN:N	2.38	0.48
1:E:319:GLY:HA2	1:E:357:PRO:HD3	1.94	0.48
1:EF:327:ASP:HB2	2:EG:177:VAL:HG13	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EH:156:ARG:HH22	1:EH:197:ASP:CG	2.21	0.48
1:EH:290:THR:HG21	1:EH:329:GLN:HB3	1.95	0.48
1:EJ:100:ASN:HB3	1:EJ:103:LYS:HG3	1.95	0.48
1:EJ:167:PHE:CZ	1:EJ:233:MET:HG2	2.48	0.48
2:EK:265:ILE:HG23	2:EK:432:TYR:CE1	2.49	0.48
2:EK:296:PHE:CZ	2:EK:377:MET:HE1	2.48	0.48
2:EK:306:ASP:HB3	2:EK:309:HIS:ND1	2.28	0.48
1:F:54:SER:OG	1:F:55:SER:N	2.46	0.48
1:F:321:MET:HE2	1:F:363:MET:HG2	1.96	0.48
2:FA:384:ILE:O	2:FA:387:VAL:HG12	2.13	0.48
2:FC:238:LEU:HD12	2:FC:239:THR:HG23	1.93	0.48
1:FD:315:ALA:HB1	1:FD:317:PHE:CE1	2.48	0.48
1:FL:122:LYS:HE3	1:GL:291:GLN:HG3	1.96	0.48
1:FL:150:LEU:HD23	1:FL:154:LYS:NZ	2.28	0.48
1:GD:46:ARG:NH2	2:GE:76:ASP:OD2	2.40	0.48
2:GE:270:THR:HA	2:GE:377:MET:O	2.13	0.48
1:GH:2:ARG:HE	1:GH:2:ARG:HA	1.78	0.48
2:GI:169:TYR:HD2	2:GI:204:LEU:HD11	1.77	0.48
1:GL:27:GLU:OE1	1:GL:241:ARG:NH2	2.46	0.48
1:H:91:ILE:HG21	1:H:116:VAL:HG12	1.94	0.48
1:H:248:SER:HB2	1:H:252:LYS:HG2	1.95	0.48
1:H:324:LYS:HZ3	2:HA:221:ARG:HA	1.78	0.48
1:H:375:GLN:HB3	1:H:422:TYR:HB3	1.94	0.48
2:HE:288:VAL:HB	2:HE:327:ASP:HB3	1.94	0.48
1:HF:267:MET:HE1	1:HF:299:MET:SD	2.53	0.48
2:HG:79:ARG:O	2:HG:84:ARG:HB3	2.13	0.48
2:HI:91:GLN:H	2:HI:121:ARG:HD3	1.79	0.48
1:HL:310:TYR:N	1:HL:340:TYR:O	2.35	0.48
2:HM:248:LEU:HD23	2:HM:355:ILE:HD12	1.95	0.48
1:I:66:MET:SD	1:I:116:VAL:HG11	2.53	0.48
1:I:170:ILE:HG13	1:I:203:ASP:HB3	1.95	0.48
2:IA:102:ASN:OD1	2:IA:105:ARG:N	2.41	0.48
2:IE:102:ASN:HB3	2:IE:105:ARG:HB3	1.95	0.48
1:IF:87:PRO:HB2	2:JF:280:LYS:HZ3	1.78	0.48
2:IG:102:ASN:HB3	2:IG:105:ARG:HB3	1.95	0.48
2:II:118:ALA:O	2:II:122:ILE:HG12	2.12	0.48
2:II:254:GLU:O	2:II:258:ASN:ND2	2.46	0.48
1:IJ:252:LYS:NZ	71:IK:501:GTP:O1A	2.43	0.48
2:IK:91:GLN:HA	2:IK:121:ARG:HG2	1.95	0.48
2:IM:21:TRP:CZ2	2:IM:65:CYS:HB3	2.48	0.48
2:IM:316:CYS:SG	2:IM:318:MET:HE3	2.53	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:422:ARG:HH12	2:J:426:ALA:HB2	1.78	0.48
1:JA:375:GLN:HB2	1:JA:419:VAL:HG13	1.94	0.48
1:JE:10:GLY:O	1:JE:14:ASN:ND2	2.45	0.48
1:JG:316:LEU:HD23	1:JG:352:SER:OG	2.13	0.48
2:JH:97:GLU:HG2	2:JH:105:ARG:HH22	1.76	0.48
1:JI:153:SER:O	1:JI:157:GLU:HG2	2.13	0.48
2:K:213:THR:HG22	2:K:219:ILE:HD11	1.95	0.48
2:K:262:TYR:OH	1:KA:391:ARG:O	2.25	0.48
2:K:328:VAL:O	2:K:332:ILE:HG12	2.13	0.48
1:KA:72:THR:O	1:KA:75:SER:OG	2.29	0.48
1:KA:226:ASN:OD1	69:KA:500:GDP:N1	2.42	0.48
1:KA:267:MET:HE1	1:KA:373:CYS:SG	2.53	0.48
1:KA:293:MET:CG	1:KA:367:PHE:HB2	2.43	0.48
1:KC:186:THR:HG22	1:KC:411:ALA:HB1	1.94	0.48
2:KH:58:ALA:HB3	23:1E:183:ARG:HH12	1.78	0.48
2:KH:234:VAL:HG13	2:KH:376:CYS:SG	2.53	0.48
2:KJ:262:TYR:HB2	2:KJ:265:ILE:HG12	1.96	0.48
1:KK:292:GLN:HG2	1:KK:298:ASN:ND2	2.29	0.48
1:LK:391:ARG:CZ	22:0z:148:PHE:HE1	2.27	0.48
1:LM:313:ALA:HB3	1:LM:349:ILE:HG12	1.96	0.48
1:LM:324:LYS:HE3	2:LN:220:GLU:O	2.12	0.48
1:LM:411:ALA:O	1:LM:415:MET:HG2	2.12	0.48
2:LN:139:HIS:O	2:LN:170:THR:HA	2.14	0.48
1:M:244:GLY:HA2	1:M:355:ASP:HB2	1.95	0.48
1:M:299:MET:HE1	1:M:305:PRO:HG2	1.94	0.48
2:MA:121:ARG:HA	2:MA:124:LYS:NZ	2.28	0.48
2:MC:288:VAL:HG22	2:MC:323:VAL:HG12	1.95	0.48
1:MD:37:GLN:HB2	45:2y:257:ARG:NH1	2.25	0.48
1:MD:350:LYS:HD2	2:ME:179:THR:O	2.14	0.48
2:ME:175:PRO:HD2	2:ME:207:GLU:HG3	1.96	0.48
1:MH:310:TYR:HE1	1:MH:367:PHE:HZ	1.61	0.48
1:MJ:425:TYR:CE2	33:2H:118:PHE:HE1	2.31	0.48
1:N:293:MET:SD	1:N:367:PHE:HB2	2.53	0.48
1:ND:91:ILE:HD12	1:ND:116:VAL:HG22	1.95	0.48
1:ND:100:ASN:HB3	1:ND:103:LYS:HB2	1.94	0.48
2:NE:68:LEU:HD13	2:NE:93:VAL:HB	1.95	0.48
1:NF:113:ILE:HG12	1:NF:117:LEU:HD23	1.94	0.48
1:NH:67:ASP:O	1:NH:92:PHE:HA	2.13	0.48
1:NJ:167:PHE:CZ	1:NJ:233:MET:HG2	2.48	0.48
1:NJ:270:PHE:O	1:NJ:298:ASN:ND2	2.42	0.48
1:NL:143:THR:OG1	69:NL:500:GDP:O2B	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OA:216:SER:OG	2:OA:275:VAL:O	2.16	0.48
2:OA:276:VAL:HG13	2:OA:280:LYS:HB2	1.95	0.48
1:OB:384:GLN:O	1:OB:388:MET:HG3	2.12	0.48
1:OD:265:PHE:HB3	1:OD:374:ILE:HD13	1.95	0.48
1:OF:275:SER:HB2	1:OF:278:SER:HB2	1.96	0.48
2:OG:292:THR:HG22	2:OG:296:PHE:CE2	2.48	0.48
2:OG:427:ALA:O	2:OG:430:LYS:HG3	2.12	0.48
2:OI:373:ARG:HG2	2:OI:373:ARG:HH11	1.79	0.48
1:OJ:32:PRO:HG3	1:OJ:81:TYR:CE1	2.48	0.48
2:OK:17:GLY:HA2	2:OK:20:CYS:SG	2.53	0.48
2:OK:103:TYR:HD2	2:OK:413:MET:HE1	1.78	0.48
1:OL:2:ARG:NH2	2:OM:71:GLU:OE2	2.45	0.48
1:OL:217:LEU:HD13	1:OL:220:PRO:CD	2.40	0.48
1:OL:417:ASP:OD1	1:OL:418:LEU:N	2.46	0.48
2:PC:51:THR:HG21	2:PC:243:ARG:HG2	1.94	0.48
1:PD:163:ILE:HG21	1:PD:250:LEU:HB3	1.96	0.48
1:PD:190:HIS:CE1	1:PD:191:GLN:HG2	2.49	0.48
1:PH:257:LEU:HD11	1:PH:314:SER:HB3	1.95	0.48
2:PM:67:PHE:HB2	2:PM:92:LEU:HD13	1.95	0.48
2:PM:136:MET:HE1	2:PM:167:LEU:HD23	1.94	0.48
1:QA:292:GLN:HG2	1:QA:298:ASN:ND2	2.28	0.48
1:QG:134:GLN:HG3	1:QG:165:MET:HE3	1.95	0.48
2:QJ:243:ARG:HH21	2:QJ:244:PHE:HE2	1.60	0.48
2:QJ:274:PRO:HG2	2:QJ:371:VAL:HG11	1.95	0.48
2:R:356:ASN:OD1	2:R:357:TYR:N	2.46	0.48
1:RA:167:PHE:CZ	1:RA:233:MET:HG2	2.48	0.48
1:RE:175:VAL:O	1:RE:175:VAL:HG12	2.13	0.48
2:RF:182:VAL:HG22	2:RF:185:TYR:HB2	1.95	0.48
2:RH:53:PHE:HB3	2:RH:61:HIS:HB3	1.94	0.48
1:S:344:TRP:O	1:S:345:ILE:HD13	2.13	0.48
1:SB:323:THR:HG21	2:SC:224:TYR:CZ	2.48	0.48
2:SC:387:VAL:O	2:SC:391:ILE:HG12	2.13	0.48
2:SE:191:THR:HG21	2:SE:425:LEU:HD13	1.94	0.48
1:SH:101:TRP:NE1	1:SH:146:GLY:HA2	2.29	0.48
1:SJ:125:GLU:OE1	61:3x:82:TYR:O	2.31	0.48
2:SK:9:ILE:HB	2:SK:139:HIS:HB3	1.95	0.48
1:T:417:ASP:OD1	1:T:418:LEU:N	2.47	0.48
1:TB:36:TYR:CE1	1:TB:44:LEU:HG	2.49	0.48
2:TC:115:VAL:HG21	2:TC:152:LEU:HG	1.95	0.48
2:TE:173:PRO:HG3	2:TE:183:GLU:HG2	1.95	0.48
1:TH:392:LYS:HZ1	57:3g:186:MET:C	2.20	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TJ:237:THR:HG22	1:TJ:250:LEU:HD21	1.95	0.48
2:TK:68:LEU:HD11	2:TK:149:LEU:HD21	1.95	0.48
1:TL:362:LYS:HZ3	21:0x:431:PHE:HA	1.78	0.48
2:UA:5:ILE:HD11	2:UA:129:CYS:SG	2.54	0.48
1:UB:46:ARG:HH22	2:UC:72:PRO:HB2	1.78	0.48
1:UB:384:GLN:O	1:UB:388:MET:HG3	2.12	0.48
2:UC:328:VAL:HG21	2:UC:355:ILE:HD11	1.96	0.48
1:UD:19:LYS:HE2	1:UD:19:LYS:HA	1.96	0.48
2:UG:167:LEU:HD13	2:UG:200:VAL:HB	1.94	0.48
2:UI:296:PHE:CZ	2:UI:335:ILE:HG21	2.49	0.48
2:UI:345:ASP:N	2:UI:345:ASP:OD1	2.44	0.48
1:UL:109:GLY:O	1:UL:113:ILE:HB	2.13	0.48
1:V:45:GLU:OE1	1:V:46:ARG:HG2	2.13	0.48
1:VB:2:ARG:HH11	1:VB:240:LEU:HD23	1.77	0.48
2:VC:91:GLN:NE2	2:VC:125:LEU:HD11	2.28	0.48
2:VE:227:VAL:O	2:VE:231:ILE:HG12	2.13	0.48
2:VE:339:ARG:NH1	62:4B:218:GLY:O	2.46	0.48
2:VG:90:GLU:HB2	2:VG:121:ARG:NH1	2.28	0.48
2:VI:172:TYR:CD2	2:VI:203:MET:HG2	2.48	0.48
1:VJ:375:GLN:O	1:VJ:379:ARG:HG3	2.14	0.48
2:WA:98:ASP:N	2:WA:98:ASP:OD1	2.45	0.48
2:WI:205:ASP:OD1	2:WI:303:THR:HA	2.14	0.48
2:WI:209:ILE:HG21	2:WI:227:VAL:HG13	1.95	0.48
1:WL:311:LEU:O	1:WL:348:ASN:ND2	2.45	0.48
1:WL:324:LYS:HD3	2:WM:210:TYR:CG	2.48	0.48
3:XA:44:SER:OG	3:XA:163:ARG:NH1	2.46	0.48
3:XD:80:ILE:HG22	3:XD:162:ILE:HG12	1.95	0.48
5:XP:87:THR:HG21	32:2C:7:GLN:HG2	1.95	0.48
7:0D:361:GLU:HA	7:0D:364:ARG:NH1	2.28	0.48
23:1E:320:ARG:HD2	29:1k:141:GLU:OE2	2.12	0.48
23:1F:376:GLN:NE2	29:1l:203:GLU:OE2	2.46	0.48
24:1H:452:ASN:OD1	24:1H:487:ALA:N	2.42	0.48
24:1I:343:ILE:HG22	24:1I:361:TYR:HE1	1.78	0.48
24:1J:103:GLU:OE2	24:1J:114:ARG:NE	2.41	0.48
26:1Q:263:LYS:NZ	26:1Q:345:TYR:OH	2.38	0.48
27:1T:824:ARG:HG3	27:1T:824:ARG:HH11	1.78	0.48
31:1r:239:LYS:HE2	31:1r:239:LYS:HA	1.95	0.48
33:2H:118:PHE:O	33:2H:121:GLU:HG3	2.13	0.48
35:2O:121:ARG:HB2	35:2O:124:PRO:HB3	1.95	0.48
38:2U:199:ASP:OD1	38:2U:200:SER:N	2.46	0.48
38:2V:87:HIS:HE1	38:2V:92:TRP:CD1	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:2r:194:PHE:C	42:2r:196:ALA:H	2.21	0.48
44:2w:167:LEU:HB2	44:2w:177:ARG:HE	1.78	0.48
57:3h:87:LYS:HA	57:3h:90:GLU:HG2	1.95	0.48
61:3w:186:ARG:NH2	61:3w:193:GLU:OE2	2.45	0.48
67:5O:9:ASP:HB2	67:5O:77:LYS:HB3	1.95	0.48
1:AD:3:GLU:OE2	1:AD:129:CYS:N	2.38	0.48
2:AE:258:ASN:HD21	1:AF:180:VAL:HG22	1.78	0.48
2:AK:33:ASP:O	2:AK:60:LYS:NZ	2.47	0.48
2:AK:68:LEU:HD11	2:AK:149:LEU:HD21	1.95	0.48
2:AK:133:GLN:HB3	2:AK:252:LEU:HD12	1.95	0.48
1:AL:66:MET:SD	1:AL:116:VAL:HG11	2.53	0.48
1:AL:387:GLY:C	1:AL:390:ARG:HH11	2.21	0.48
1:AN:238:CYS:SG	1:AN:318:ARG:HD3	2.54	0.48
2:BA:21:TRP:CZ2	2:BA:65:CYS:HB3	2.48	0.48
2:BC:6:CYS:O	2:BC:65:CYS:HA	2.13	0.48
2:BC:203:MET:HG3	2:BC:269:LEU:HD23	1.95	0.48
1:BF:175:VAL:O	1:BF:175:VAL:HG12	2.13	0.48
1:BJ:385:PHE:CZ	1:BJ:389:PHE:HE2	2.32	0.48
2:BK:332:ILE:O	2:BK:336:LYS:HG2	2.13	0.48
1:BN:170:ILE:N	1:BN:202:ILE:O	2.46	0.48
1:CA:19:LYS:HD3	1:CA:22:GLU:OE2	2.13	0.48
2:CB:19:ALA:HA	2:CB:22:GLU:HG2	1.95	0.48
1:CE:91:ILE:HD11	1:CE:119:VAL:HG21	1.94	0.48
1:CE:187:LEU:HD13	1:CE:403:MET:HE1	1.95	0.48
1:CI:27:GLU:O	1:CI:43:GLN:NE2	2.46	0.48
2:CJ:52:PHE:HZ	2:CJ:239:THR:HG21	1.78	0.48
2:CJ:221:ARG:HG3	2:CJ:221:ARG:HH11	1.79	0.48
2:D:307:PRO:HB3	2:D:312:TYR:HE1	1.77	0.48
2:D:324:VAL:HG22	2:D:326:LYS:H	1.79	0.48
2:D:336:LYS:NZ	2:D:348:PRO:O	2.38	0.48
1:DA:174:ARG:NH2	1:DA:205:GLU:OE2	2.46	0.48
1:DA:233:MET:O	1:DA:236:VAL:HG12	2.13	0.48
1:DC:3:GLU:O	1:DC:131:GLN:N	2.47	0.48
1:DG:282:ARG:HH11	1:DG:284:LEU:HD23	1.77	0.48
1:DG:306:ARG:HG2	1:DG:340:TYR:HE2	1.78	0.48
1:DG:347:ASN:ND2	2:DH:178:SER:OG	2.46	0.48
1:DI:32:PRO:HG3	1:DI:81:TYR:CE1	2.49	0.48
1:DI:159:TYR:HB3	1:DI:162:ARG:HG3	1.94	0.48
2:DL:173:PRO:HB3	2:DL:183:GLU:HG2	1.95	0.48
1:E:102:ALA:HB2	1:E:403:MET:HE3	1.95	0.48
1:EB:167:PHE:CE2	1:EB:268:MET:HE1	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ED:148:GLY:O	1:ED:152:ILE:HG12	2.13	0.48
2:EE:237:SER:HA	2:EE:320:ARG:HH11	1.78	0.48
1:EF:19:LYS:O	1:EF:22:GLU:HG2	2.12	0.48
1:EJ:156:ARG:HH22	1:EJ:197:ASP:HB3	1.78	0.48
2:FA:102:ASN:HB3	2:FA:105:ARG:HB2	1.95	0.48
1:FB:193:VAL:HG13	1:FB:194:GLU:HG3	1.96	0.48
2:FC:27:GLU:HG2	2:FC:361:THR:HG21	1.95	0.48
1:FD:10:GLY:O	1:FD:14:ASN:ND2	2.44	0.48
1:FF:326:VAL:HG11	1:FF:353:ILE:HD11	1.94	0.48
2:FI:316:CYS:SG	2:FI:318:MET:HE3	2.53	0.48
1:G:161:ASP:O	1:G:251:ARG:NH2	2.47	0.48
2:GC:288:VAL:HG22	2:GC:323:VAL:HG12	1.95	0.48
2:GC:292:THR:OG1	2:GC:319:TYR:OH	2.26	0.48
2:GC:372:GLN:NE2	10:0R:204:MET:SD	2.82	0.48
1:GD:87:PRO:HD3	1:HD:281:TYR:CD2	2.43	0.48
2:GE:105:ARG:HG3	2:GE:109:THR:OG1	2.14	0.48
1:GF:181:GLU:HB2	1:GF:182:PRO:HD3	1.94	0.48
1:GH:32:PRO:HG3	1:GH:81:TYR:CD1	2.48	0.48
2:GK:274:PRO:HD2	2:GK:374:ALA:HA	1.95	0.48
1:H:4:ILE:HD11	1:H:131:GLN:NE2	2.28	0.48
1:H:289:LEU:O	1:H:293:MET:HG3	2.13	0.48
1:HB:317:PHE:CE2	1:HB:326:VAL:HG13	2.45	0.48
1:HF:190:HIS:CE1	1:HF:191:GLN:HG2	2.48	0.48
2:HG:103:TYR:HB3	2:HG:408:TYR:HE2	1.79	0.48
2:HG:288:VAL:CG1	2:HG:327:ASP:HB3	2.43	0.48
2:HG:406:HIS:HA	2:HG:409:VAL:HG22	1.95	0.48
2:HI:192:HIS:ND1	2:HI:424:ASP:OD2	2.45	0.48
1:I:104:GLY:O	1:I:109:GLY:HA3	2.13	0.48
1:I:138:SER:HA	1:I:169:VAL:H	1.78	0.48
1:IJ:377:MET:SD	1:IJ:380:ARG:NH2	2.86	0.48
2:JB:89:PRO:HB2	2:KB:280:LYS:NZ	2.28	0.48
2:JB:334:THR:O	2:JB:337:THR:OG1	2.27	0.48
1:JE:215:LEU:HD21	1:JE:273:LEU:HD22	1.94	0.48
1:JK:153:SER:HA	1:JK:195:ASN:HD21	1.76	0.48
2:JL:306:ASP:HB3	2:JL:309:HIS:CE1	2.48	0.48
1:JM:244:GLY:HA3	1:JM:354:CYS:HA	1.94	0.48
1:KA:65:LEU:HD21	1:KA:76:VAL:HG11	1.94	0.48
2:KD:32:PRO:HB2	15:0f:238:PHE:HE1	1.79	0.48
2:KF:224:TYR:HA	2:KF:227:VAL:HG22	1.93	0.48
1:KI:133:PHE:CD2	1:KI:155:LEU:HD23	2.48	0.48
1:KM:311:LEU:HA	1:KM:342:ILE:HD12	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:122:ILE:HG21	2:L:157:LEU:HD21	1.95	0.48
1:LC:74:ASP:HA	27:1S:53:LEU:HD23	1.94	0.48
1:LE:301:GLN:NE2	1:LE:303:ALA:O	2.40	0.48
2:LF:184:PRO:HA	2:LF:391:ILE:HD11	1.95	0.48
1:LI:11:GLN:NE2	1:LI:15:GLN:OE1	2.46	0.48
2:LL:27:GLU:HG2	2:LL:243:ARG:NH2	2.28	0.48
1:LO:341:PHE:HB3	1:LO:348:ASN:ND2	2.28	0.48
1:M:161:ASP:N	1:M:161:ASP:OD1	2.43	0.48
1:M:257:LEU:HD21	1:M:314:SER:HB2	1.94	0.48
2:MA:91:GLN:HG2	2:MA:125:LEU:HD11	1.96	0.48
2:MA:431:ASP:HB3	33:2F:146:HIS:HE1	1.79	0.48
1:MB:287:ALA:HA	1:MB:329:GLN:OE1	2.13	0.48
1:MF:345:ILE:HG13	2:MG:398:MET:HE3	1.95	0.48
2:MM:55:GLU:OE2	2:MM:61:HIS:NE2	2.47	0.48
1:N:152:ILE:HG22	1:N:195:ASN:HB2	1.95	0.48
2:NA:291:ILE:O	2:NA:295:VAL:HG23	2.13	0.48
1:NH:309:ARG:NH2	1:NH:343:GLU:OE1	2.47	0.48
1:NJ:141:GLY:O	1:NJ:145:SER:OG	2.27	0.48
1:O:211:CYS:SG	1:O:217:LEU:HD21	2.54	0.48
2:OA:7:ILE:HG22	2:OA:9:ILE:HG23	1.96	0.48
2:OA:307:PRO:HB3	2:OA:312:TYR:CE1	2.48	0.48
2:OC:335:ILE:HD13	2:OC:338:LYS:HZ3	1.77	0.48
1:OF:121:ARG:HH12	1:OF:158:GLU:CD	2.20	0.48
1:OF:330:MET:HA	1:OF:333:VAL:HG22	1.94	0.48
2:OG:219:ILE:HG23	2:OG:222:PRO:HG3	1.95	0.48
2:OM:215:ARG:HH12	2:OM:299:ALA:HB1	1.79	0.48
2:OM:238:LEU:HD11	2:OM:378:ILE:HG13	1.94	0.48
1:PF:21:TRP:HA	1:PF:24:ILE:HG22	1.94	0.48
2:PG:167:LEU:HD11	2:PG:252:LEU:HD22	1.95	0.48
2:PI:192:HIS:ND1	2:PI:424:ASP:OD2	2.43	0.48
1:PJ:274:THR:HG22	1:PJ:282:ARG:HD3	1.95	0.48
1:PL:73:MET:O	1:PL:77:ARG:HG2	2.14	0.48
2:Q:2:ARG:HH22	1:QA:69:GLU:HG2	1.77	0.48
2:Q:308:ARG:HD3	2:Q:308:ARG:H	1.78	0.48
2:QB:134:GLY:HA2	2:QB:164:LYS:HG2	1.96	0.48
2:QF:247:ALA:O	1:QG:11:GLN:NE2	2.47	0.48
2:QH:31:GLN:HG2	2:QH:37:PRO:HD3	1.95	0.48
1:QK:16:ILE:HD12	69:QK:500:GDP:O5'	2.13	0.48
1:RC:135:LEU:HD13	1:RC:152:ILE:HG12	1.96	0.48
1:RC:248:SER:HA	1:RC:252:LYS:HD3	1.96	0.48
1:RI:347:ASN:HD21	2:RJ:178:SER:H	1.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SB:341:PHE:CE1	1:SB:349:ILE:HD11	2.48	0.48
2:SK:269:LEU:O	2:SK:378:ILE:HD12	2.12	0.48
2:SK:334:THR:HA	2:SK:337:THR:HG22	1.95	0.48
2:SK:367:ASP:OD1	2:SK:368:LEU:N	2.46	0.48
1:TD:313:ALA:HB1	1:TD:367:PHE:CE1	2.49	0.48
1:TD:346:PRO:HG3	2:TE:394:LYS:HB3	1.95	0.48
2:TE:288:VAL:HB	2:TE:327:ASP:HB3	1.95	0.48
1:TF:232:VAL:HG22	1:TF:270:PHE:HB2	1.94	0.48
2:TI:93:VAL:HG12	2:TI:114:ILE:HD11	1.96	0.48
1:UB:18:SER:O	1:UB:22:GLU:HG3	2.13	0.48
1:UB:216:LYS:HB2	1:UB:275:SER:HB2	1.95	0.48
1:UD:9:ALA:HB2	1:UD:66:MET:HE3	1.94	0.48
2:UG:377:MET:HE3	2:UG:379:ALA:HB2	1.95	0.48
1:UH:11:GLN:HA	1:UH:72:THR:HG21	1.96	0.48
2:UI:174:SER:HB3	2:UI:207:GLU:HG2	1.96	0.48
1:UJ:167:PHE:HE1	1:UJ:200:MET:SD	2.36	0.48
1:VB:139:LEU:HG	1:VB:168:SER:OG	2.14	0.48
1:VB:347:ASN:ND2	2:VC:178:SER:OG	2.29	0.48
1:VD:316:LEU:HB2	1:VD:366:THR:OG1	2.13	0.48
2:VG:11:GLN:HG3	2:VG:74:VAL:HG21	1.95	0.48
2:VK:238:LEU:HD21	2:VK:378:ILE:HG13	1.96	0.48
1:WB:350:LYS:HA	2:WC:179:THR:O	2.12	0.48
2:WG:296:PHE:CD2	2:WG:335:ILE:HG12	2.49	0.48
2:WG:328:VAL:O	2:WG:332:ILE:HG12	2.13	0.48
2:WI:213:THR:O	2:WI:217:LEU:HB2	2.14	0.48
1:WJ:298:ASN:O	1:WJ:298:ASN:ND2	2.47	0.48
1:WL:324:LYS:HB3	2:WM:210:TYR:CD2	2.49	0.48
3:XA:83:MET:SD	3:XA:161:ARG:NE	2.86	0.48
3:XA:90:GLU:HG2	3:XA:104:ARG:HD3	1.95	0.48
4:XM:247:LEU:HB3	4:XM:277:VAL:HG13	1.95	0.48
4:XQ:88:ARG:NH2	33:2H:58:PRO:O	2.45	0.48
8:0G:196:SER:HA	8:0G:199:LYS:NZ	2.29	0.48
9:0N:547:GLY:HA2	9:0N:577:TRP:HH2	1.77	0.48
11:0U:182:LYS:CG	11:0U:186:MET:HE3	2.43	0.48
16:0l:563:ILE:HG23	16:0l:567:ARG:CZ	2.43	0.48
16:0k:284:PHE:CZ	16:0k:303:VAL:HG11	2.49	0.48
17:0n:85:LYS:HA	17:0n:88:TYR:HB2	1.96	0.48
17:0n:191:ARG:HH22	43:2t:243:HIS:HB3	1.78	0.48
18:0p:281:GLN:O	18:0p:285:GLN:HG3	2.13	0.48
21:0w:183:GLU:OE1	48:3M:439:ARG:NH1	2.47	0.48
21:0w:268:ARG:HE	21:0w:272:LEU:HG	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:1K:662:PHE:HE2	24:1K:736:LEU:HD11	1.78	0.48
25:1O:305:PHE:CD1	25:1O:332:ARG:HD3	2.49	0.48
27:1T:719:GLU:HA	27:1T:722:LEU:HG	1.96	0.48
29:1m:178:SER:HA	29:1m:181:LEU:HD13	1.94	0.48
35:2O:127:ARG:NH1	35:2O:132:GLU:OE2	2.47	0.48
42:2r:21:GLU:HG3	42:2r:22:PRO:HD3	1.95	0.48
45:2z:70:PRO:HG3	49:3Q:208:PHE:O	2.13	0.48
49:3Q:450:LEU:HA	49:3Q:531:THR:HG23	1.95	0.48
66:5L:31:LYS:NZ	66:5L:226:THR:HB	2.28	0.48
68:5S:94:CYS:HB3	68:5S:96:GLN:OE1	2.14	0.48
1:AF:87:PRO:HD3	1:BF:281:TYR:CD2	2.44	0.48
2:AG:211:ASP:O	2:AG:215:ARG:HG2	2.13	0.48
2:AG:265:ILE:HG21	2:AG:313:MET:HE1	1.95	0.48
2:AI:328:VAL:O	2:AI:332:ILE:HG12	2.14	0.48
1:AN:175:VAL:HG12	1:AN:175:VAL:O	2.13	0.48
1:BB:217:LEU:HD11	1:BB:220:PRO:HB3	1.95	0.48
1:BD:60:VAL:HB	1:BD:86:ARG:HH21	1.79	0.48
2:BG:298:PRO:HG3	2:BG:308:ARG:NH1	2.29	0.48
1:BH:46:ARG:NH1	2:BI:76:ASP:OD2	2.44	0.48
2:BK:180:ALA:HB3	2:BK:183:GLU:HB2	1.94	0.48
2:BK:422:ARG:HH12	2:BK:426:ALA:HB2	1.79	0.48
2:C:43:GLY:HA2	24:1H:277:TYR:CE2	2.49	0.48
2:CB:221:ARG:NH1	16:0k:667:ASP:OD2	2.45	0.48
2:CD:169:TYR:CE2	2:CD:235:VAL:HG22	2.48	0.48
2:CD:188:VAL:HG12	2:CD:421:ALA:HB1	1.95	0.48
1:CE:105:HIS:ND1	1:CE:146:GLY:O	2.42	0.48
2:CH:240:ALA:HA	2:CH:243:ARG:HE	1.79	0.48
2:CH:298:PRO:HA	2:CH:301:MET:HE2	1.95	0.48
1:CK:21:TRP:CZ3	1:CK:61:PRO:HB3	2.47	0.48
1:CM:177:ASP:OD2	69:CM:500:GDP:O2'	2.25	0.48
1:DA:361:LEU:C	27:1S:849:MET:HE1	2.38	0.48
1:DG:4:ILE:HD11	1:DG:250:LEU:HG	1.94	0.48
1:DG:19:LYS:NZ	42:2r:404:LEU:HD21	2.28	0.48
2:DH:326:LYS:HZ2	1:DI:212:PHE:HB2	1.78	0.48
2:DL:229:ARG:CD	2:DL:363:VAL:HG21	2.43	0.48
1:DM:193:VAL:HG22	1:DM:265:PHE:HE2	1.78	0.48
1:DM:237:THR:HG22	1:DM:250:LEU:HD21	1.96	0.48
1:ED:186:THR:HA	1:ED:415:MET:CE	2.43	0.48
2:EE:6:CYS:O	2:EE:65:CYS:HA	2.14	0.48
2:EE:209:ILE:HG23	2:EE:230:LEU:HD23	1.95	0.48
2:EE:265:ILE:HG23	2:EE:432:TYR:CE1	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EH:266:PHE:HB3	1:EH:368:ILE:HG23	1.95	0.48
1:EH:322:SER:HB3	2:EI:221:ARG:HB3	1.96	0.48
2:EI:91:GLN:H	2:EI:121:ARG:HH12	1.60	0.48
1:EJ:1:MET:N	1:EJ:3:GLU:OE2	2.39	0.48
2:FA:155:GLU:HG2	2:FA:197:HIS:CE1	2.49	0.48
2:FA:322:ASP:OD1	2:FA:322:ASP:N	2.44	0.48
1:FB:233:MET:O	1:FB:236:VAL:HG22	2.13	0.48
2:FG:11:GLN:O	2:FG:15:GLN:HG2	2.14	0.48
2:FG:11:GLN:HG3	2:FG:74:VAL:HG11	1.95	0.48
1:FH:379:ARG:HH22	1:FH:423:GLN:NE2	2.12	0.48
1:FJ:189:VAL:HG21	1:FJ:415:MET:SD	2.53	0.48
1:FJ:314:SER:OG	1:FJ:368:ILE:HB	2.13	0.48
1:FL:260:PHE:HB2	1:FL:263:LEU:HD23	1.94	0.48
2:GA:26:LEU:HD12	2:GA:363:VAL:HG12	1.95	0.48
1:GB:323:THR:HA	1:GB:326:VAL:HG12	1.94	0.48
2:GG:370:LYS:HE2	10:0S:423:TYR:CE2	2.47	0.48
1:GH:344:TRP:CG	2:GI:401:LYS:HZ3	2.32	0.48
1:GJ:56:GLY:HA2	17:0n:169:ARG:NH2	2.28	0.48
1:GL:137:HIS:NE2	1:GL:166:THR:OG1	2.39	0.48
1:GL:286:VAL:O	1:GL:290:THR:HG22	2.14	0.48
1:H:19:LYS:HE2	1:H:22:GLU:HG3	1.95	0.48
1:H:20:PHE:HZ	1:H:50:TYR:CE1	2.31	0.48
2:HA:1:MET:HE2	1:HB:70:PRO:HG2	1.95	0.48
2:HA:370:LYS:H	17:0m:96:GLN:HE22	1.61	0.48
1:HD:190:HIS:CE1	1:HD:191:GLN:HG2	2.49	0.48
2:HE:286:LEU:O	2:HE:373:ARG:NH1	2.42	0.48
1:HF:60:VAL:HG11	1:HF:86:ARG:HE	1.78	0.48
2:HI:180:ALA:HB3	2:HI:183:GLU:HB2	1.95	0.48
1:HJ:200:MET:HG3	1:HJ:268:MET:HE3	1.95	0.48
1:HJ:215:LEU:HD11	1:HJ:228:LEU:HD21	1.95	0.48
1:HL:346:PRO:O	2:HM:394:LYS:NZ	2.46	0.48
2:HM:127:ASP:OD1	2:HM:128:ASN:N	2.46	0.48
2:IA:119:LEU:HG	2:IA:156:ARG:HG2	1.95	0.48
1:IB:267:MET:O	1:IB:268:MET:HE2	2.14	0.48
1:ID:214:THR:OG1	1:ID:297:LYS:NZ	2.37	0.48
2:IE:67:PHE:HB2	2:IE:92:LEU:HD12	1.94	0.48
1:IF:67:ASP:OD1	1:IF:143:THR:HG21	2.13	0.48
1:IF:183:TYR:HE2	1:IF:395:LEU:HD13	1.77	0.48
2:IG:8:HIS:CD2	2:IG:17:GLY:HA3	2.48	0.48
2:II:295:VAL:HG21	2:II:375:VAL:HG13	1.95	0.48
2:IK:311:LYS:NZ	2:IK:344:VAL:HA	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IL:318:ARG:HH21	1:IL:358:PRO:HG3	1.77	0.48
2:IM:9:ILE:HG22	2:IM:146:GLY:HA2	1.95	0.48
2:IM:88:ASN:OD1	2:IM:89:PRO:HD2	2.13	0.48
2:IM:336:LYS:HE3	2:IM:351:PHE:CD1	2.48	0.48
2:IM:426:ALA:O	2:IM:430:LYS:HG2	2.13	0.48
2:J:167:LEU:HD13	2:J:200:VAL:HB	1.94	0.48
1:JA:58:ARG:HH11	1:KA:280:GLN:HG3	1.78	0.48
1:JC:330:MET:HE3	1:JC:349:ILE:HD13	1.96	0.48
1:JE:344:TRP:HZ3	2:JF:403:ALA:HB2	1.77	0.48
1:JG:167:PHE:CG	1:JG:233:MET:HE2	2.49	0.48
2:JL:408:TYR:O	2:JL:413:MET:HB3	2.13	0.48
2:K:103:TYR:HD2	2:K:413:MET:HE1	1.78	0.48
2:K:367:ASP:OD1	2:K:368:LEU:N	2.46	0.48
2:KB:142:GLY:CA	2:KB:183:GLU:HG3	2.44	0.48
2:KD:1:MET:HE1	15:0f:259:CYS:CB	2.40	0.48
2:KD:156:ARG:HA	2:KD:159:VAL:HG12	1.95	0.48
1:KE:68:LEU:HD23	1:KE:112:LEU:HD13	1.94	0.48
2:KF:177:VAL:HB	2:KF:207:GLU:HB2	1.94	0.48
1:KG:128:ASP:OD1	35:2N:253:ARG:HB2	2.13	0.48
2:KJ:26:LEU:HD12	2:KJ:363:VAL:HG12	1.94	0.48
1:LA:186:THR:O	1:LA:190:HIS:HD2	1.97	0.48
2:LB:120:ASP:O	2:LB:124:LYS:HG2	2.13	0.48
1:LC:10:GLY:HA2	1:LC:143:THR:HG23	1.96	0.48
1:LC:20:PHE:HA	1:LC:230:ALA:HB1	1.96	0.48
2:LF:174:SER:HB2	2:LF:177:VAL:O	2.14	0.48
2:LH:382:THR:HG21	2:LH:436:GLY:HA3	1.95	0.48
1:LI:172:SER:HB3	1:LI:175:VAL:HB	1.95	0.48
1:LI:272:PRO:HD3	1:LI:364:SER:HA	1.96	0.48
1:LK:31:ASP:OD1	1:LK:32:PRO:HD2	2.14	0.48
1:LK:293:MET:HG3	1:LK:367:PHE:HB2	1.96	0.48
1:LM:45:GLU:OE2	29:1l:216:LYS:NZ	2.44	0.48
1:LM:267:MET:HB2	1:LM:369:GLY:H	1.78	0.48
1:LM:317:PHE:HB3	1:LM:321:MET:HE1	1.95	0.48
1:LM:336:LYS:HE3	1:LM:337:ASN:OD1	2.14	0.48
1:LO:33:THR:O	1:MN:280:GLN:NE2	2.45	0.48
1:M:405:GLU:O	1:M:409:THR:HG23	2.14	0.48
2:MA:275:VAL:HG23	2:MA:368:LEU:HD11	1.95	0.48
2:ME:291:ILE:O	2:ME:295:VAL:HG23	2.13	0.48
2:ME:340:THR:HB	33:2G:185:THR:HB	1.96	0.48
1:MF:378:PHE:HD1	1:MF:415:MET:HE3	1.78	0.48
2:MG:172:TYR:CD2	2:MG:203:MET:HE2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MH:145:SER:HB2	1:MH:188:SER:HB3	1.96	0.48
2:MK:209:ILE:HG21	2:MK:227:VAL:HG13	1.95	0.48
1:N:238:CYS:HB2	1:N:318:ARG:NH1	2.27	0.48
2:NA:395:PHE:HA	2:NA:398:MET:HB2	1.96	0.48
2:NE:270:THR:OG1	2:NE:302:LEU:HD23	2.13	0.48
2:NG:360:PRO:HG2	2:NG:371:VAL:HG23	1.96	0.48
2:NI:150:GLY:O	2:NI:154:LEU:HD23	2.14	0.48
1:NJ:213:ARG:HD3	18:0p:178:SER:OG	2.14	0.48
2:NM:76:ASP:HA	2:NM:79:ARG:HD2	1.94	0.48
1:OB:46:ARG:NH2	2:OC:76:ASP:OD2	2.46	0.48
1:OD:301:GLN:NE2	1:OD:377:MET:HG2	2.28	0.48
2:OE:234:VAL:HG13	2:OE:376:CYS:SG	2.53	0.48
2:OE:295:VAL:HG21	2:OE:375:VAL:HG13	1.95	0.48
1:OF:73:MET:HE3	1:OF:90:PHE:HD2	1.78	0.48
2:OG:188:VAL:O	2:OG:191:THR:HG22	2.13	0.48
1:OH:236:VAL:HA	1:OH:316:LEU:HD12	1.94	0.48
2:OI:82:THR:HG21	28:1h:82:ALA:HB1	1.95	0.48
2:OK:344:VAL:HG22	2:OK:346:TRP:H	1.78	0.48
1:OL:323:THR:HG22	2:OM:223:SER:HA	1.96	0.48
2:OM:145:THR:OG1	71:OM:501:GTP:O2B	2.31	0.48
1:P:239:CYS:SG	1:P:248:SER:OG	2.53	0.48
1:PB:10:GLY:HA2	1:PB:143:THR:HG23	1.96	0.48
1:PD:322:SER:OG	1:PD:325:GLU:OE1	2.19	0.48
2:PE:388:PHE:HA	2:PE:391:ILE:HG22	1.95	0.48
2:PG:72:PRO:O	2:PG:76:ASP:HB2	2.13	0.48
1:QA:330:MET:SD	1:QA:349:ILE:HD13	2.53	0.48
2:QD:365:GLY:O	41:2h:262:ARG:NH1	2.46	0.48
2:QF:172:TYR:CD2	2:QF:203:MET:HE1	2.48	0.48
2:QH:195:LEU:HD11	2:QH:428:LEU:HD22	1.95	0.48
1:RA:323:THR:HG21	2:RB:224:TYR:CE1	2.49	0.48
2:RB:311:LYS:H	2:RB:382:THR:HG1	1.60	0.48
1:RE:139:LEU:HD12	1:RE:170:ILE:HD11	1.95	0.48
1:RE:323:THR:HA	1:RE:326:VAL:HG12	1.95	0.48
1:RI:66:MET:HB3	1:RI:147:MET:HE3	1.95	0.48
1:RI:326:VAL:O	1:RI:330:MET:HG2	2.14	0.48
2:RJ:211:ASP:O	2:RJ:215:ARG:HG2	2.13	0.48
2:RJ:388:PHE:HE2	2:RJ:432:TYR:HE2	1.61	0.48
1:S:86:ARG:HG3	1:T:281:TYR:HB3	1.96	0.48
2:SC:6:CYS:HB3	2:SC:8:HIS:CE1	2.49	0.48
2:SC:69:ASP:OD2	2:SC:71:GLU:HG3	2.13	0.48
1:SD:56:GLY:HA2	21:0w:299:SER:CB	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SD:105:HIS:CE1	1:SD:150:LEU:HB2	2.48	0.48
1:SD:122:LYS:HZ2	1:TD:291:GLN:HG2	1.77	0.48
1:SD:268:MET:HB3	1:SD:300:MET:HE3	1.95	0.48
2:SE:431:ASP:O	2:SE:435:VAL:HG23	2.12	0.48
1:SF:86:ARG:HH12	1:TF:282:ARG:HA	1.78	0.48
1:SH:257:LEU:HA	1:SH:312:THR:HG21	1.95	0.48
2:SI:192:HIS:ND1	2:SI:424:ASP:OD1	2.39	0.48
2:SK:70:LEU:HD21	2:SK:114:ILE:HG21	1.95	0.48
2:TE:58:ALA:HB2	8:0I:141:ILE:HD11	1.94	0.48
1:TH:167:PHE:CZ	1:TH:233:MET:HG2	2.49	0.48
1:TH:268:MET:HE3	1:TH:269:GLY:H	1.76	0.48
1:TJ:337:ASN:HD21	61:3x:81:VAL:HG23	1.77	0.48
1:TJ:371:ASN:OD1	1:TJ:372:THR:N	2.47	0.48
1:U:2:ARG:HA	1:U:131:GLN:HB2	1.95	0.48
1:UB:5:VAL:HG23	1:UB:62:ARG:HG2	1.95	0.48
1:UD:313:ALA:HB3	1:UD:349:ILE:HG23	1.95	0.48
2:UE:21:TRP:CZ2	2:UE:65:CYS:HB3	2.48	0.48
2:UI:258:ASN:HD21	2:UI:352:LYS:HE2	1.78	0.48
1:UL:318:ARG:CZ	1:UL:358:PRO:HG3	2.42	0.48
2:VC:8:HIS:CE1	2:VC:17:GLY:HA3	2.49	0.48
1:VH:246:LEU:HD12	2:VI:11:GLN:HE22	1.79	0.48
2:VK:334:THR:O	2:VK:338:LYS:HG3	2.13	0.48
2:WA:5:ILE:HD12	2:WA:125:LEU:HB3	1.95	0.48
2:WC:329:ASN:ND2	1:WD:175:VAL:HG22	2.28	0.48
2:WC:367:ASP:N	2:WC:367:ASP:OD1	2.44	0.48
2:WE:36:MET:HG2	2:WE:41:CYS:HB3	1.96	0.48
1:WJ:115:SER:HB2	4:XQ:268:ARG:HD2	1.94	0.48
1:WJ:330:MET:SD	1:WJ:349:ILE:HG21	2.53	0.48
3:XE:79:ILE:HB	3:XE:163:ARG:HB3	1.96	0.48
3:XF:68:THR:HG22	3:XF:153:ARG:HH22	1.78	0.48
3:XF:87:PHE:HD2	3:XF:123:MET:HE1	1.78	0.48
8:0G:137:GLU:HA	8:0G:140:CYS:SG	2.52	0.48
8:0G:315:ARG:HH22	9:0M:540:HIS:CE1	2.31	0.48
10:0S:456:TYR:O	10:0S:460:ILE:HG12	2.13	0.48
16:0k:661:LEU:HA	16:0k:688:HIS:CE1	2.48	0.48
20:0t:48:HIS:HB3	20:0t:109:ARG:HD3	1.96	0.48
20:0u:156:LEU:HB2	20:0u:178:PHE:CE1	2.48	0.48
23:1A:78:ARG:HH11	23:1A:78:ARG:HG2	1.78	0.48
23:1B:262:SER:O	23:1B:265:GLU:HB2	2.12	0.48
24:1I:359:HIS:HB2	24:1I:384:ALA:HB2	1.95	0.48
24:1I:665:LEU:HD13	24:1I:704:LEU:HD22	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:1a:236:CYS:CB	28:1b:28:HIS:CE1	2.97	0.48
28:1a:256:VAL:HA	28:1b:17:THR:HG23	1.96	0.48
28:1b:188:THR:HG21	31:1s:239:LYS:HE2	1.94	0.48
28:1g:241:VAL:HG11	28:1h:19:VAL:HG13	1.87	0.48
29:1l:222:LYS:HD2	29:1l:225:TYR:HD1	1.78	0.48
31:1q:220:GLN:NE2	31:1q:252:GLU:HG2	2.28	0.48
32:2C:22:LEU:O	32:2C:26:GLN:HG3	2.13	0.48
33:2F:190:PRO:HG2	33:2F:260:LEU:HD13	1.95	0.48
33:2H:191:GLN:HG3	33:2H:208:LYS:HG3	1.96	0.48
38:2U:201:ALA:O	38:2U:204:SER:OG	2.30	0.48
38:2V:178:ASN:OD1	38:2V:179:TYR:N	2.46	0.48
40:2Z:43:GLN:HG3	40:2Z:105:ASP:HB3	1.96	0.48
41:2e:141:PRO:HA	41:2e:144:MET:HB2	1.96	0.48
41:2h:389:MET:O	41:2h:392:ARG:HG3	2.13	0.48
41:2i:449:TYR:HA	41:2i:452:VAL:HG12	1.94	0.48
48:3G:112:LYS:HE2	48:3G:115:LEU:HD21	1.96	0.48
49:3Q:319:LEU:HD21	49:3Q:481:PRO:HB2	1.96	0.48
54:3Z:318:GLN:HB2	54:3Z:338:HIS:ND1	2.28	0.48
54:3Z:368:PRO:O	54:3Z:371:THR:HG22	2.13	0.48
54:3a:137:VAL:HG11	54:3a:144:PRO:HB3	1.96	0.48
55:3b:31:TYR:O	55:3b:35:LEU:HD23	2.13	0.48
67:5P:7:VAL:CG2	67:5P:79:THR:HB	2.43	0.48
1:A:91:ILE:HD11	1:A:119:VAL:HG21	1.94	0.48
2:AA:259:LEU:HD21	2:AA:268:VAL:HG11	1.95	0.48
2:AE:362:VAL:HG23	2:AE:370:LYS:HD3	1.95	0.48
2:AG:102:ASN:ND2	2:AG:411:GLU:HG3	2.28	0.48
2:AG:388:PHE:HA	2:AG:391:ILE:HG22	1.94	0.48
1:AH:21:TRP:CZ3	1:AH:50:TYR:HB3	2.49	0.48
1:AH:186:THR:HG23	1:AH:415:MET:HE3	1.95	0.48
1:AH:375:GLN:HG3	1:AH:379:ARG:NH2	2.28	0.48
2:AK:46:ASP:N	2:AK:46:ASP:OD1	2.47	0.48
1:AL:191:GLN:O	1:AL:195:ASN:ND2	2.45	0.48
1:AN:3:GLU:HG3	1:AN:49:VAL:HA	1.95	0.48
1:AN:87:PRO:HD3	1:BN:281:TYR:CD2	2.48	0.48
1:AN:374:ILE:HG13	1:AN:377:MET:HE2	1.95	0.48
2:BA:206:ASN:HB3	2:BA:210:TYR:CE2	2.48	0.48
1:BB:268:MET:HB2	1:BB:300:MET:HG3	1.96	0.48
2:BE:255:PHE:HD1	2:BE:259:LEU:HD12	1.79	0.48
1:BH:45:GLU:HG2	1:BH:46:ARG:HG2	1.96	0.48
1:BJ:294:PHE:HZ	1:BJ:349:ILE:HD11	1.79	0.48
2:BK:210:TYR:CE1	2:BK:227:VAL:HG11	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BK:257:THR:O	1:BL:397:TRP:NE1	2.46	0.48
2:BM:174:SER:HB2	2:BM:177:VAL:O	2.13	0.48
2:BM:195:LEU:HA	2:BM:266:HIS:NE2	2.29	0.48
1:BN:42:LEU:HA	1:BN:45:GLU:OE1	2.14	0.48
1:BN:233:MET:O	1:BN:236:VAL:HG12	2.14	0.48
2:C:8:HIS:CD2	2:C:17:GLY:HA3	2.48	0.48
1:CA:273:LEU:H	1:CA:292:GLN:HE22	1.61	0.48
1:CI:37:GLN:HG2	24:1I:318:LYS:HD2	1.95	0.48
1:CI:175:VAL:O	1:CI:175:VAL:HG12	2.13	0.48
2:CL:241:SER:HB2	2:CL:250:VAL:H	1.78	0.48
1:CM:45:GLU:HA	27:1T:754:ARG:HD3	1.95	0.48
2:D:319:TYR:HE1	2:D:328:VAL:HG13	1.78	0.48
1:DG:22:GLU:HA	1:DG:81:TYR:CD2	2.48	0.48
2:DH:273:ALA:HB3	2:DH:295:VAL:HG23	1.94	0.48
1:DM:5:VAL:HG23	1:DM:62:ARG:HG2	1.94	0.48
1:E:178:THR:HG22	1:E:180:VAL:H	1.79	0.48
1:E:309:ARG:HB3	1:E:342:ILE:HG13	1.95	0.48
1:E:331:LEU:HD11	2:EA:176:GLN:HB3	1.95	0.48
2:EC:259:LEU:HD21	2:EC:268:VAL:HG11	1.95	0.48
1:ED:233:MET:O	1:ED:236:VAL:HG12	2.13	0.48
2:EG:26:LEU:HD13	2:EG:364:PRO:HD2	1.95	0.48
1:EH:21:TRP:CZ3	1:EH:50:TYR:HB3	2.49	0.48
1:EH:248:SER:HA	1:EH:252:LYS:HD2	1.95	0.48
1:EL:68:LEU:HD12	1:EL:97:ALA:HB2	1.96	0.48
1:EL:371:ASN:OD1	1:EL:372:THR:N	2.47	0.48
1:F:156:ARG:HH21	1:F:164:MET:HB2	1.78	0.48
1:FD:63:ALA:O	1:FD:89:ASN:ND2	2.44	0.48
2:FG:352:LYS:HZ3	1:FH:99:ASN:HD21	1.62	0.48
1:FL:375:GLN:OE1	1:FL:379:ARG:NH2	2.45	0.48
2:GC:103:TYR:CE2	2:GC:148:GLY:HA2	2.49	0.48
2:GC:293:ASN:O	2:GC:297:GLU:HG2	2.13	0.48
2:GE:21:TRP:CZ2	2:GE:65:CYS:HB3	2.49	0.48
2:GE:191:THR:HG21	2:GE:425:LEU:HD13	1.95	0.48
2:GE:254:GLU:OE2	1:GF:99:ASN:N	2.46	0.48
1:GF:35:THR:OG1	1:GF:37:GLN:NE2	2.43	0.48
1:GH:2:ARG:HA	1:GH:2:ARG:NE	2.28	0.48
1:GH:61:PRO:HD3	1:GH:84:LEU:HG	1.96	0.48
1:GH:207:LEU:HD21	1:GH:300:MET:HE3	1.94	0.48
1:H:125:GLU:OE1	1:I:291:GLN:NE2	2.45	0.48
2:HA:230:LEU:HD13	2:HA:368:LEU:HD21	1.95	0.48
2:HC:315:CYS:HB3	2:HC:377:MET:HE1	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HC:435:VAL:HA	1:HD:391:ARG:HH22	1.79	0.48
1:HD:50:TYR:OH	1:HD:237:THR:OG1	2.17	0.48
1:HD:182:PRO:HA	1:HD:185:THR:HG22	1.95	0.48
1:HD:372:THR:O	1:HD:375:GLN:HG2	2.14	0.48
1:HD:417:ASP:O	1:HD:421:GLU:HG2	2.13	0.48
2:HI:252:LEU:HA	2:HI:255:PHE:CE1	2.49	0.48
1:HL:222:PHE:O	1:HL:226:ASN:ND2	2.47	0.48
2:IA:76:ASP:OD1	2:IA:79:ARG:NH1	2.46	0.48
2:IE:390:ARG:HD2	2:IE:390:ARG:O	2.14	0.48
2:II:155:GLU:HB2	2:II:197:HIS:HD2	1.79	0.48
1:IJ:176:SER:HB2	1:IJ:181:GLU:OE1	2.13	0.48
1:IJ:203:ASP:OD2	1:IJ:302:ALA:HB3	2.13	0.48
2:IK:52:PHE:HD2	2:IK:243:ARG:HD3	1.79	0.48
2:J:349:THR:HG23	1:JA:384:GLN:NE2	2.28	0.48
2:JF:105:ARG:HG3	2:JF:105:ARG:HH11	1.78	0.48
2:JF:294:SER:HA	2:JF:297:GLU:OE1	2.14	0.48
2:JH:91:GLN:NE2	2:JH:125:LEU:HG	2.29	0.48
2:JH:214:ARG:HG3	2:JH:215:ARG:HG3	1.94	0.48
2:JJ:268:VAL:HG21	2:JJ:378:ILE:HG22	1.95	0.48
2:JL:15:GLN:HB3	2:JL:228:ASN:ND2	2.29	0.48
2:JL:27:GLU:HB3	2:JL:361:THR:HG21	1.94	0.48
2:K:402:ARG:HD3	2:K:405:VAL:HG21	1.96	0.48
1:KA:164:MET:H	1:KA:197:ASP:HB2	1.78	0.48
2:KB:10:GLY:HA2	2:KB:69:ASP:OD1	2.13	0.48
2:KD:22:GLU:OE2	2:KD:229:ARG:NH1	2.46	0.48
1:KM:81:TYR:HD2	1:KM:84:LEU:HD22	1.78	0.48
1:KM:112:LEU:O	1:KM:116:VAL:HG23	2.12	0.48
2:L:21:TRP:CZ2	2:L:65:CYS:HB3	2.48	0.48
2:L:155:GLU:HG2	2:L:197:HIS:CD2	2.49	0.48
2:LB:70:LEU:HB3	2:LB:97:GLU:O	2.13	0.48
1:LC:276:ARG:NH1	23:1E:345:ASP:OD2	2.46	0.48
2:LD:15:GLN:HB3	2:LD:228:ASN:ND2	2.29	0.48
2:LF:113:GLU:OE2	32:2B:217:SER:OG	2.31	0.48
2:LH:2:ARG:NE	19:0r:295:LYS:HD2	2.28	0.48
1:LK:29:GLY:HA3	1:LK:38:GLY:HA2	1.95	0.48
1:LK:258:VAL:HB	2:LL:407:TRP:CH2	2.44	0.48
1:LM:65:LEU:HB3	1:LM:73:MET:HE1	1.96	0.48
1:LM:105:HIS:CE1	1:LM:150:LEU:HD13	2.49	0.48
1:LM:185:THR:O	1:LM:189:VAL:HG12	2.14	0.48
1:MB:66:MET:SD	1:MB:116:VAL:HG11	2.53	0.48
2:MC:112:LYS:HD3	2:MC:152:LEU:HD21	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MF:304:ASP:OD2	1:MF:306:ARG:HB2	2.13	0.48
2:MI:39:ASP:HB3	2:MI:42:ILE:HB	1.96	0.48
2:MI:245:ASP:HA	24:1I:34:ARG:NH2	2.29	0.48
2:MK:318:MET:HE3	2:MK:318:MET:HA	1.95	0.48
2:MK:431:ASP:OD1	2:MK:432:TYR:N	2.46	0.48
1:MN:313:ALA:HB3	1:MN:349:ILE:CD1	2.43	0.48
2:NA:104:ALA:HB2	2:NA:413:MET:HE3	1.94	0.48
1:NB:260:PHE:HB2	1:NB:263:LEU:HD23	1.94	0.48
1:NB:385:PHE:HE2	1:NB:412:GLU:HB2	1.79	0.48
2:NC:91:GLN:HA	2:NC:121:ARG:HG2	1.94	0.48
1:ND:377:MET:HG2	1:ND:380:ARG:NH2	2.28	0.48
2:NE:211:ASP:O	2:NE:215:ARG:HD3	2.14	0.48
1:NF:267:MET:C	1:NF:268:MET:HE2	2.38	0.48
1:NF:309:ARG:NH1	1:NF:426:GLN:O	2.47	0.48
2:NI:215:ARG:NH2	2:NI:299:ALA:O	2.46	0.48
1:NJ:123:GLU:O	1:NJ:126:SER:OG	2.24	0.48
2:NK:88:ASN:HB3	2:NK:90:GLU:O	2.12	0.48
2:NK:104:ALA:HB2	2:NK:413:MET:HE3	1.95	0.48
1:NL:36:TYR:CZ	1:NL:44:LEU:HG	2.49	0.48
1:O:139:LEU:O	1:O:184:ASN:ND2	2.46	0.48
1:O:252:LYS:HG3	2:OA:100:ALA:HA	1.94	0.48
2:OC:295:VAL:HG21	2:OC:375:VAL:HG13	1.96	0.48
1:OD:10:GLY:O	1:OD:14:ASN:ND2	2.35	0.48
1:OD:377:MET:O	1:OD:380:ARG:HG3	2.14	0.48
2:OE:271:SER:HB3	2:OE:301:MET:HA	1.95	0.48
1:OF:170:ILE:N	1:OF:202:ILE:O	2.46	0.48
1:OH:133:PHE:CE1	1:OH:155:LEU:HD12	2.48	0.48
1:OH:166:THR:HG21	1:OH:192:LEU:HD22	1.95	0.48
2:OI:392:ASP:HB2	2:OI:422:ARG:CZ	2.43	0.48
1:OL:324:LYS:HD3	2:OM:214:ARG:HD3	1.94	0.48
1:P:101:TRP:CD1	1:P:146:GLY:HA3	2.48	0.48
2:PA:251:ASP:H	2:PA:254:GLU:HG3	1.77	0.48
1:PD:245:GLN:HG3	28:1d:145:THR:HG21	1.96	0.48
2:PG:90:GLU:HB2	2:PG:121:ARG:NH1	2.28	0.48
1:PH:122:LYS:HD2	39:2X:3:TYR:CG	2.49	0.48
1:PL:392:LYS:HG3	1:PL:395:LEU:HD22	1.94	0.48
2:PM:169:TYR:HB3	2:PM:204:LEU:HD11	1.96	0.48
2:Q:88:ASN:CG	2:Q:90:GLU:HB3	2.39	0.48
1:QA:33:THR:O	1:QA:58:ARG:NH1	2.47	0.48
2:QB:55:GLU:O	2:RB:285:GLN:NE2	2.45	0.48
1:QC:17:GLY:HA2	1:QC:20:PHE:HB3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QH:193:SER:HA	2:QH:196:GLU:HG2	1.96	0.48
1:QI:133:PHE:HB2	1:QI:164:MET:SD	2.54	0.48
1:QK:173:PRO:HG2	1:QK:380:ARG:HD3	1.94	0.48
2:R:332:ILE:HG23	2:R:351:PHE:CE2	2.48	0.48
2:RD:6:CYS:HB3	2:RD:8:HIS:NE2	2.28	0.48
1:RG:209:ASP:OD1	1:RG:213:ARG:NE	2.46	0.48
1:RI:262:ARG:NE	1:RI:421:GLU:OE2	2.38	0.48
1:RI:374:ILE:HD11	1:RI:422:TYR:CZ	2.48	0.48
1:RK:12:CYS:O	1:RK:16:ILE:HG12	2.13	0.48
1:RK:198:GLU:HG3	1:RK:266:PHE:CE1	2.48	0.48
2:RL:311:LYS:HZ3	2:RL:344:VAL:HG23	1.79	0.48
2:SA:139:HIS:HE1	2:SA:194:LEU:HD21	1.79	0.48
2:SG:274:PRO:HB3	2:SG:286:LEU:HD22	1.95	0.48
2:TC:187:CYS:O	2:TC:191:THR:OG1	2.31	0.48
2:TC:420:GLU:HA	2:TC:423:GLU:OE1	2.13	0.48
2:TE:178:SER:OG	2:TE:183:GLU:OE1	2.32	0.48
2:TE:372:GLN:HE21	21:0w:274:ASN:HD22	1.62	0.48
2:TG:157:LEU:HB3	2:TG:166:LYS:NZ	2.29	0.48
1:TH:221:THR:HG22	1:TH:222:PHE:N	2.25	0.48
2:TI:360:PRO:HG2	2:TI:374:ALA:HB3	1.95	0.48
1:TJ:204:ASN:OD1	69:TJ:500:GDP:O2'	2.32	0.48
1:TJ:330:MET:HE3	1:TJ:349:ILE:HG22	1.94	0.48
2:TK:50:ASN:O	2:TK:64:ARG:NH1	2.47	0.48
2:UC:259:LEU:HD21	2:UC:268:VAL:HG11	1.96	0.48
1:UD:18:SER:OG	1:UD:76:VAL:HG23	2.13	0.48
2:UE:98:ASP:OD1	2:UE:99:ALA:N	2.47	0.48
2:UE:264:ARG:NH2	2:UE:428:LEU:HD22	2.28	0.48
2:UG:241:SER:HB2	2:UG:250:VAL:H	1.79	0.48
1:V:20:PHE:O	1:V:24:ILE:HG12	2.12	0.48
2:VE:298:PRO:HG2	62:4B:204:LEU:HB3	1.95	0.48
2:VG:336:LYS:HE3	2:VG:351:PHE:CE2	2.48	0.48
1:VJ:322:SER:HB3	2:VK:221:ARG:HG2	1.95	0.48
2:VK:11:GLN:HG3	2:VK:74:VAL:HG11	1.95	0.48
1:VL:172:SER:HB2	1:VL:205:GLU:HG2	1.95	0.48
1:W:22:GLU:HG2	1:W:81:TYR:CD2	2.48	0.48
2:WC:215:ARG:HH12	2:WC:299:ALA:HB1	1.79	0.48
2:WE:251:ASP:H	2:WE:254:GLU:HG3	1.78	0.48
1:WF:109:GLY:HA2	1:WF:147:MET:HE2	1.96	0.48
1:WH:193:VAL:HG11	1:WH:262:ARG:HH21	1.78	0.48
1:WJ:163:ILE:HG21	1:WJ:250:LEU:HB3	1.96	0.48
2:WK:205:ASP:OD1	2:WK:303:THR:HA	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:WL:371:ASN:OD1	1:WL:372:THR:N	2.46	0.48
6:0A:49:VAL:HG21	6:0A:134:VAL:HG23	1.94	0.48
8:0G:248:LEU:O	8:0G:251:GLU:HG3	2.13	0.48
9:0M:145:LEU:HD23	9:0M:186:ARG:HH12	1.78	0.48
9:0M:164:HIS:CE1	9:0M:166:GLU:HB2	2.49	0.48
9:0N:155:THR:HA	9:0N:172:GLY:HA3	1.96	0.48
9:0N:576:VAL:HB	9:0N:586:ALA:HB3	1.95	0.48
9:0O:179:TRP:HE3	9:0O:188:MET:HB3	1.79	0.48
16:0k:157:LEU:HD22	16:0k:169:GLN:HB2	1.95	0.48
17:0n:192:ASP:OD1	17:0n:193:ARG:N	2.47	0.48
17:0n:276:LEU:HG	17:0n:280:TYR:CE2	2.49	0.48
17:0n:357:LYS:HA	17:0n:360:HIS:NE2	2.29	0.48
21:0w:26:LYS:HE2	21:0w:40:GLY:HA2	1.95	0.48
24:1I:691:SER:O	24:1I:695:LYS:HG2	2.13	0.48
25:1O:247:LYS:O	25:1O:251:GLU:HG3	2.14	0.48
26:1Q:677:SER:OG	26:1Q:699:ARG:NH2	2.47	0.48
27:1S:19:LYS:HE3	27:1S:23:ARG:NH2	2.28	0.48
28:1b:43:TYR:O	28:1b:45:ASP:N	2.46	0.48
29:1l:200:PHE:CD1	29:1l:206:ALA:HA	2.48	0.48
22:1x:207:GLN:HA	22:1x:212:ALA:HB2	1.95	0.48
32:2B:8:LEU:O	32:2B:18:ARG:NH1	2.46	0.48
32:2C:225:ALA:HB2	32:2C:233:PRO:HG3	1.94	0.48
35:2O:23:TRP:O	35:2O:28:HIS:HB2	2.14	0.48
37:2S:126:PHE:HA	37:2S:137:GLY:HA3	1.96	0.48
38:2U:268:ARG:HG2	38:2U:272:LYS:HE3	1.96	0.48
41:2l:257:GLU:O	41:2l:261:VAL:HG23	2.13	0.48
42:2r:39:TYR:CZ	42:2r:150:PRO:HD3	2.48	0.48
42:2r:46:TYR:HE1	42:2r:109:LEU:HD13	1.78	0.48
44:2w:194:ARG:HA	44:2w:213:MET:CE	2.43	0.48
49:3P:469:LEU:O	49:3P:473:VAL:HG12	2.12	0.48
49:3Q:352:LEU:O	49:3Q:356:ILE:HG12	2.14	0.48
58:3m:144:ARG:HG2	58:3m:148:GLU:OE1	2.14	0.48
60:3r:124:PRO:HD2	60:3r:127:ARG:HH11	1.79	0.48
61:3w:164:ASN:O	61:3w:167:CYS:N	2.47	0.48
61:3w:189:PHE:CD2	61:3w:190:THR:HG23	2.49	0.48
28:4W:23:CYS:SG	28:4W:24:GLU:N	2.86	0.48
66:5K:109:ASP:N	66:5K:109:ASP:OD1	2.45	0.48
67:5P:91:PHE:HE1	68:5T:93:LEU:HD23	1.78	0.48
1:A:67:ASP:OD2	1:A:73:MET:HE3	2.14	0.48
2:AA:258:ASN:ND2	2:AA:352:LYS:HD2	2.29	0.48
2:AA:326:LYS:HD2	1:AB:208:TYR:HD1	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:2:ARG:O	2:AC:51:THR:OG1	2.25	0.48
1:AD:385:PHE:HZ	1:AD:408:PHE:HD2	1.60	0.48
2:AI:295:VAL:HG21	2:AI:375:VAL:HG13	1.96	0.48
1:AN:121:ARG:NH2	1:AN:158:GLU:OE2	2.45	0.48
1:B:229:VAL:O	1:B:233:MET:HG3	2.13	0.48
1:B:255:VAL:HG11	2:BA:100:ALA:O	2.13	0.48
1:BB:131:GLN:HE22	1:BB:249:ASP:HB2	1.79	0.48
2:BE:262:TYR:HB2	2:BE:265:ILE:HG12	1.95	0.48
1:BF:304:ASP:OD1	1:BF:306:ARG:NH2	2.47	0.48
1:BJ:217:LEU:HD23	1:BJ:220:PRO:HB3	1.95	0.48
1:BL:332:ASN:O	1:BL:336:LYS:HG2	2.12	0.48
1:BN:27:GLU:O	1:BN:43:GLN:NE2	2.45	0.48
1:BN:155:LEU:HA	1:BN:158:GLU:HG2	1.94	0.48
1:CC:324:LYS:HG3	1:CC:325:GLU:N	2.28	0.48
1:DA:344:TRP:HZ3	2:DB:403:ALA:HB2	1.79	0.48
2:DB:105:ARG:HB2	2:DB:411:GLU:HG3	1.95	0.48
1:DC:314:SER:OG	1:DC:368:ILE:HB	2.13	0.48
1:DE:218:THR:HG23	1:DE:219:THR:HG23	1.94	0.48
1:DG:66:MET:HE2	1:DG:151:LEU:HD22	1.95	0.48
1:DG:312:THR:HG21	2:DH:404:PHE:HZ	1.79	0.48
1:E:178:THR:HB	1:E:181:GLU:HG3	1.94	0.48
2:EA:316:CYS:HB3	2:EA:378:ILE:HG23	1.95	0.48
2:EE:200:VAL:HG23	2:EE:256:GLN:NE2	2.28	0.48
2:EE:217:LEU:HD12	2:EE:367:ASP:HB2	1.95	0.48
1:EH:226:ASN:OD1	69:EH:500:GDP:N1	2.39	0.48
2:EK:328:VAL:O	2:EK:332:ILE:HG12	2.14	0.48
1:EL:209:ASP:OD1	1:EL:213:ARG:NH1	2.47	0.48
1:EL:268:MET:O	1:EL:300:MET:HG2	2.13	0.48
1:FB:113:ILE:HG13	1:FB:117:LEU:HD23	1.95	0.48
1:FB:236:VAL:HG23	1:FB:237:THR:HG23	1.96	0.48
1:FD:91:ILE:HD11	1:FD:119:VAL:HG21	1.95	0.48
1:FH:22:GLU:OE2	1:FH:80:PRO:HG2	2.14	0.48
1:FJ:175:VAL:O	1:FJ:175:VAL:HG12	2.13	0.48
2:FK:331:ALA:O	2:FK:335:ILE:HG12	2.14	0.48
1:FL:117:LEU:HD21	1:FL:154:LYS:HD2	1.95	0.48
1:FL:121:ARG:HD2	59:4P:90:PRO:HD3	1.95	0.48
2:GA:142:GLY:HA3	2:GA:183:GLU:HG3	1.94	0.48
2:GA:156:ARG:NH2	2:GA:160:ASP:OD2	2.42	0.48
1:GB:42:LEU:HD22	38:2U:316:VAL:HG13	1.96	0.48
1:GB:73:MET:HE3	1:GB:92:PHE:HB3	1.95	0.48
1:GB:167:PHE:CE1	1:GB:233:MET:HE3	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GC:2:ARG:HB3	2:GC:242:LEU:HB2	1.95	0.48
1:GD:253:LEU:HD21	1:GD:316:LEU:HD21	1.94	0.48
1:GD:317:PHE:HD1	1:GD:321:MET:HE1	1.79	0.48
2:GE:269:LEU:HD13	2:GE:301:MET:SD	2.54	0.48
1:GF:167:PHE:CZ	1:GF:233:MET:HG2	2.48	0.48
2:GG:167:LEU:HD13	2:GG:252:LEU:HD12	1.96	0.48
2:GG:268:VAL:HG12	2:GG:380:ASN:HB2	1.95	0.48
2:GG:322:ASP:OD2	2:GG:372:GLN:NE2	2.47	0.48
1:GJ:389:PHE:CZ	1:GJ:405:GLU:HG3	2.45	0.48
1:GJ:417:ASP:O	1:GJ:421:GLU:HG3	2.13	0.48
2:HA:167:LEU:HD21	2:HA:255:PHE:HZ	1.79	0.48
2:HC:167:LEU:HD22	2:HC:200:VAL:HB	1.96	0.48
2:HC:241:SER:O	2:HC:249:ASN:ND2	2.46	0.48
1:HD:178:THR:O	1:HD:181:GLU:HG3	2.13	0.48
1:HH:309:ARG:NH2	1:HH:425:TYR:O	2.46	0.48
2:HI:341:ILE:HD12	2:HI:343:PHE:HE1	1.78	0.48
2:HK:265:ILE:HG12	2:HK:380:ASN:HD21	1.78	0.48
1:HL:16:ILE:HD11	1:HL:229:VAL:HG13	1.96	0.48
1:HL:285:SER:N	1:HL:288:GLU:OE2	2.43	0.48
2:IA:431:ASP:OD1	2:IA:432:TYR:N	2.47	0.48
2:IC:209:ILE:HG12	2:IC:302:LEU:HD22	1.95	0.48
2:IE:157:LEU:O	2:IE:161:TYR:HB2	2.13	0.48
1:IJ:247:ASN:C	1:IJ:247:ASN:ND2	2.72	0.48
2:J:295:VAL:CG1	2:J:377:MET:HB2	2.43	0.48
2:J:352:LYS:HA	1:JA:177:ASP:O	2.14	0.48
2:JB:395:PHE:CD2	2:JB:422:ARG:HD3	2.49	0.48
2:JD:264:ARG:HG3	60:3r:125:THR:HG21	1.96	0.48
1:JE:151:LEU:HG	1:JE:155:LEU:HD23	1.94	0.48
2:JF:358:GLN:OE1	2:JF:359:PRO:HD2	2.13	0.48
2:JH:253:THR:HA	2:JH:256:GLN:HB2	1.95	0.48
2:JL:199:ASP:HB3	2:JL:256:GLN:OE1	2.13	0.48
2:JL:265:ILE:HG23	2:JL:432:TYR:HE1	1.77	0.48
1:JM:48:ASN:O	1:JM:62:ARG:NH2	2.47	0.48
1:JM:67:ASP:OD1	1:JM:68:LEU:N	2.47	0.48
1:JM:72:THR:O	1:JM:76:VAL:HG23	2.14	0.48
2:JN:431:ASP:OD1	2:JN:432:TYR:N	2.47	0.48
2:KB:272:TYR:HD1	2:KB:376:CYS:HB2	1.79	0.48
1:KE:8:GLN:HG2	1:KE:17:GLY:HA3	1.94	0.48
1:KG:334:GLN:HE22	1:KG:347:ASN:HA	1.79	0.48
2:KH:67:PHE:HB2	2:KH:92:LEU:HD12	1.94	0.48
2:KH:213:THR:HG22	2:KH:219:ILE:HB	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KH:244:PHE:HB2	2:KH:356:ASN:HD21	1.79	0.48
1:LA:334:GLN:HG2	1:LA:349:ILE:HD12	1.95	0.48
1:LC:414:ASN:HA	13:0Y:92:LYS:NZ	2.28	0.48
2:LF:36:MET:HE2	23:1A:115:LYS:HE3	1.96	0.48
2:LH:1:MET:N	19:0r:301:GLU:OE1	2.47	0.48
2:LH:174:SER:OG	2:LH:177:VAL:O	2.20	0.48
2:LH:295:VAL:CG1	2:LH:377:MET:HB2	2.44	0.48
2:LJ:319:TYR:HB3	2:LJ:323:VAL:HG11	1.95	0.48
1:LK:330:MET:HE3	1:LK:349:ILE:HD13	1.95	0.48
1:LO:41:ASP:OD1	29:1m:212:THR:HA	2.14	0.48
1:M:311:LEU:HA	1:M:342:ILE:CD1	2.44	0.48
2:MA:103:TYR:HB3	2:MA:408:TYR:HE2	1.78	0.48
1:MB:103:LYS:HA	1:MB:107:THR:HG22	1.95	0.48
1:MB:252:LYS:HD3	1:MB:350:LYS:HZ1	1.78	0.48
1:MB:294:PHE:CD1	1:MB:333:VAL:HG21	2.47	0.48
1:MB:323:THR:HA	1:MB:326:VAL:HG12	1.95	0.48
1:MB:344:TRP:CD2	2:MC:401:LYS:HD2	2.48	0.48
2:MG:129:CYS:SG	2:MG:130:THR:N	2.86	0.48
2:MI:64:ARG:NH1	2:MI:129:CYS:SG	2.87	0.48
1:ML:371:ASN:OD1	1:ML:372:THR:N	2.47	0.48
2:MM:251:ASP:H	2:MM:254:GLU:HB2	1.79	0.48
1:MN:381:VAL:HG13	1:MN:415:MET:CE	2.44	0.48
2:NC:9:ILE:HG22	2:NC:146:GLY:HA2	1.95	0.48
2:NG:399:TYR:O	2:NG:402:ARG:NH2	2.47	0.48
2:NK:244:PHE:HB2	2:NK:356:ASN:HD21	1.78	0.48
1:NL:175:VAL:HG11	1:NL:204:ASN:HB2	1.95	0.48
2:NM:268:VAL:HG13	2:NM:378:ILE:HD11	1.95	0.48
2:NM:269:LEU:CD1	2:NM:301:MET:HE2	2.44	0.48
2:OC:250:VAL:HG11	2:OC:352:LYS:HZ1	1.78	0.48
2:OG:70:LEU:HD21	2:OG:114:ILE:HG21	1.96	0.48
2:OG:252:LEU:HA	2:OG:255:PHE:CE1	2.48	0.48
1:OH:133:PHE:HB2	1:OH:164:MET:SD	2.53	0.48
1:OJ:99:ASN:HD21	1:OJ:141:GLY:HA2	1.76	0.48
2:OK:206:ASN:HB3	2:OK:210:TYR:CE1	2.49	0.48
2:OK:326:LYS:HB3	1:OL:212:PHE:CZ	2.49	0.48
1:OL:296:ALA:HB1	1:OL:304:ASP:OD1	2.13	0.48
1:P:16:ILE:CG2	1:P:233:MET:HE1	2.44	0.48
1:P:175:VAL:HG12	1:P:175:VAL:O	2.13	0.48
2:PC:262:TYR:HB2	2:PC:265:ILE:HG12	1.96	0.48
1:PF:247:ASN:ND2	2:PG:73:THR:OG1	2.47	0.48
1:PH:172:SER:OG	1:PH:205:GLU:OE1	2.23	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PJ:35:THR:O	1:PJ:37:GLN:NE2	2.45	0.48
2:PM:56:THR:N	2:PM:60:LYS:O	2.41	0.48
1:QA:3:GLU:HA	1:QA:49:VAL:HA	1.95	0.48
1:QA:403:MET:HG2	1:QA:408:PHE:CZ	2.48	0.48
2:QB:288:VAL:HG22	2:QB:323:VAL:HG12	1.95	0.48
1:QK:175:VAL:HG12	1:QK:175:VAL:O	2.14	0.48
2:QL:167:LEU:HD13	2:QL:200:VAL:HB	1.96	0.48
2:QL:335:ILE:HG23	2:QL:341:ILE:HD11	1.95	0.48
1:RA:235:GLY:HA3	1:RA:366:THR:HG21	1.95	0.48
1:RA:320:ARG:HD2	1:RA:320:ARG:N	2.29	0.48
2:RF:145:THR:HG22	71:RF:501:GTP:O3B	2.14	0.48
2:RF:212:LEU:HD13	2:RF:300:GLY:HA2	1.95	0.48
2:RH:328:VAL:O	2:RH:332:ILE:HG12	2.13	0.48
2:RJ:120:ASP:OD1	2:RJ:121:ARG:HG2	2.14	0.48
1:RK:238:CYS:SG	1:RK:318:ARG:NE	2.87	0.48
1:SB:2:ARG:N	2:SC:96:LYS:HZ1	2.11	0.48
1:SD:100:ASN:HB3	1:SD:103:LYS:HB3	1.95	0.48
1:SD:215:LEU:HD21	1:SD:273:LEU:HD22	1.94	0.48
2:SG:265:ILE:HG21	2:SG:313:MET:HE1	1.95	0.48
2:SG:384:ILE:O	2:SG:387:VAL:HG22	2.13	0.48
1:SH:167:PHE:CE2	1:SH:233:MET:HG2	2.49	0.48
1:SH:331:LEU:HD11	2:SI:176:GLN:HG2	1.95	0.48
2:SK:76:ASP:OD1	2:SK:79:ARG:NH1	2.46	0.48
1:T:178:THR:HG22	1:T:179:VAL:N	2.28	0.48
2:TA:84:ARG:HG3	2:TA:85:GLN:HE21	1.77	0.48
1:TB:20:PHE:HA	1:TB:230:ALA:HB1	1.96	0.48
2:TC:238:LEU:HA	2:TC:318:MET:CE	2.38	0.48
2:TC:388:PHE:HA	2:TC:391:ILE:HG22	1.94	0.48
1:TF:371:ASN:OD1	1:TF:372:THR:N	2.46	0.48
2:TI:47:ASP:N	2:TI:47:ASP:OD1	2.47	0.48
2:TI:225:THR:O	2:TI:229:ARG:HG3	2.13	0.48
2:TI:259:LEU:HD21	2:TI:378:ILE:HG22	1.95	0.48
1:TJ:267:MET:HE3	1:TJ:371:ASN:HB3	1.94	0.48
1:TJ:323:THR:HA	1:TJ:326:VAL:HG12	1.96	0.48
2:TK:362:VAL:HG21	21:0x:476:GLN:HE22	1.79	0.48
1:TL:22:GLU:HG2	1:TL:81:TYR:HD1	1.79	0.48
2:UA:21:TRP:CZ2	2:UA:65:CYS:HB3	2.48	0.48
2:UA:318:MET:HB2	2:UA:376:CYS:HB3	1.94	0.48
1:VB:163:ILE:HD11	1:VB:251:ARG:HG3	1.95	0.48
1:VB:165:MET:HE2	1:VB:167:PHE:CE1	2.49	0.48
2:VC:240:ALA:HA	2:VC:243:ARG:HE	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VC:422:ARG:HG3	2:VC:422:ARG:HH11	1.78	0.48
1:VD:237:THR:HG22	1:VD:250:LEU:HD21	1.96	0.48
1:VF:167:PHE:CE2	1:VF:233:MET:HG2	2.48	0.48
1:VL:217:LEU:HD11	8:0G:180:TYR:CE1	2.49	0.48
1:VL:253:LEU:HD21	1:VL:316:LEU:HD21	1.95	0.48
2:VM:60:LYS:HZ1	2:WM:282:TYR:HD2	1.60	0.48
1:WF:322:SER:O	1:WF:326:VAL:HG23	2.14	0.48
1:WJ:32:PRO:HG3	1:WJ:81:TYR:CZ	2.48	0.48
1:WL:31:ASP:OD2	14:0d:356:LYS:NZ	2.26	0.48
3:XA:57:CYS:HB3	3:XA:158:ALA:HB2	1.96	0.48
3:XF:99:MET:HE2	3:XF:101:ARG:HH12	1.77	0.48
4:XO:233:GLY:HA3	4:XO:287:HIS:O	2.14	0.48
4:XQ:125:ARG:HG3	4:XQ:125:ARG:HH11	1.78	0.48
8:0G:238:LYS:O	8:0G:242:ILE:HG12	2.14	0.48
9:0L:337:SER:HB2	9:0L:601:SER:HB2	1.95	0.48
9:0L:576:VAL:HB	9:0L:586:ALA:HB3	1.95	0.48
9:0N:233:VAL:HG23	9:0N:235:LYS:HD3	1.94	0.48
11:0U:131:GLN:HA	11:0U:142:GLN:HE22	1.78	0.48
13:0Y:119:GLU:H	13:0Y:119:GLU:CD	2.22	0.48
16:0l:463:THR:OG1	16:0l:472:SER:O	2.31	0.48
17:0m:107:GLU:OE2	17:0m:108:VAL:HG23	2.14	0.48
17:0n:222:GLU:O	17:0n:226:ILE:HG12	2.14	0.48
21:0w:331:PHE:CD2	21:0w:335:LYS:HD2	2.48	0.48
23:1B:222:GLU:HA	23:1B:225:VAL:HG12	1.95	0.48
23:1E:72:ARG:CZ	49:3Q:342:ARG:HH12	2.27	0.48
24:1J:655:ALA:HB2	24:1J:714:ALA:HB1	1.94	0.48
26:1Q:693:GLN:O	26:1Q:697:LYS:HG3	2.12	0.48
39:2X:288:ILE:HG21	39:2X:309:LEU:HD11	1.96	0.48
40:2Z:15:PHE:O	40:2Z:20:LYS:HG2	2.14	0.48
42:2r:369:ILE:O	42:2r:373:LEU:HG	2.14	0.48
45:2y:265:ARG:HG3	45:2y:265:ARG:HH11	1.78	0.48
46:3B:129:TRP:CE2	46:3B:134:LYS:HE2	2.48	0.48
48:3I:29:MET:HB3	48:3I:33:MET:HE1	1.95	0.48
49:3Q:76:ILE:HG13	49:3Q:126:LEU:HB2	1.95	0.48
54:3Z:404:LEU:HD11	54:3Z:423:MET:HE2	1.95	0.48
59:3o:265:LYS:O	59:3o:268:LYS:HG3	2.13	0.48
64:5C:111:ILE:HD11	65:5H:104:LEU:HD23	1.96	0.48
65:5G:69:LEU:HD23	65:5G:72:LEU:HD12	1.95	0.48
65:5H:127:GLN:NE2	68:5T:132:PRO:HG3	2.27	0.48
68:5T:144:PHE:O	68:5T:147:GLN:HG2	2.14	0.48
1:AD:73:MET:HG3	1:AD:92:PHE:HB3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AK:252:LEU:HA	2:AK:255:PHE:CE1	2.48	0.48
2:AM:97:GLU:HG2	2:AM:105:ARG:NH2	2.28	0.48
1:B:324:LYS:HE3	2:BA:210:TYR:HB3	1.96	0.48
1:BB:61:PRO:HD3	1:BB:84:LEU:HG	1.95	0.48
1:BB:240:LEU:HD11	1:BB:250:LEU:HG	1.94	0.48
2:BC:5:ILE:HD13	2:BC:64:ARG:HB3	1.95	0.48
2:BC:345:ASP:N	2:BC:345:ASP:OD1	2.44	0.48
2:BE:71:GLU:HB3	2:BE:98:ASP:HB2	1.95	0.48
1:BF:344:TRP:HB3	1:BF:430:VAL:HG12	1.96	0.48
1:BJ:209:ASP:OD1	1:BJ:213:ARG:NH1	2.47	0.48
1:BJ:371:ASN:OD1	1:BJ:372:THR:N	2.47	0.48
1:BL:175:VAL:O	1:BL:175:VAL:HG12	2.13	0.48
2:BM:1:MET:N	2:BM:3:GLU:OE2	2.45	0.48
2:BM:192:HIS:ND1	2:BM:424:ASP:OD1	2.47	0.48
1:BN:105:HIS:HD2	1:BN:106:TYR:CE1	2.32	0.48
1:BN:169:VAL:HG13	1:BN:202:ILE:HG22	1.95	0.48
2:C:6:CYS:O	2:C:65:CYS:HA	2.13	0.48
1:CE:313:ALA:HB3	1:CE:349:ILE:HG12	1.96	0.48
2:CF:21:TRP:CZ2	2:CF:65:CYS:HB3	2.49	0.48
1:CG:144:GLY:N	69:CG:500:GDP:O2B	2.32	0.48
1:CG:296:ALA:HB2	1:CG:305:PRO:HD2	1.96	0.48
2:CH:268:VAL:HG21	2:CH:378:ILE:HG22	1.95	0.48
2:CL:25:CYS:HB3	2:CL:30:ILE:O	2.13	0.48
2:CL:186:ASN:OD1	2:CL:408:TYR:OH	2.23	0.48
1:CM:311:LEU:HB2	1:CM:370:ASN:O	2.14	0.48
1:DE:316:LEU:HD23	1:DE:352:SER:HB2	1.94	0.48
2:DF:338:LYS:HG3	2:DF:340:THR:HG22	1.95	0.48
1:DG:268:MET:O	1:DG:300:MET:N	2.30	0.48
1:DI:276:ARG:HG2	1:DI:276:ARG:HH11	1.78	0.48
1:DK:175:VAL:O	1:DK:175:VAL:HG12	2.13	0.48
2:DL:3:GLU:HG3	2:DL:5:ILE:HG12	1.95	0.48
2:DL:209:ILE:HG23	2:DL:230:LEU:HD23	1.95	0.48
2:EA:93:VAL:HG22	2:EA:121:ARG:HH11	1.78	0.48
1:EB:2:ARG:HE	1:EB:240:LEU:HD22	1.79	0.48
2:EC:6:CYS:O	2:EC:65:CYS:HA	2.13	0.48
2:EC:83:TYR:HB3	2:EC:86:LEU:HB3	1.95	0.48
2:EC:408:TYR:HB3	2:EC:413:MET:HE2	1.96	0.48
2:EE:167:LEU:HD21	2:EE:255:PHE:HE1	1.77	0.48
1:EF:252:LYS:HG3	1:EF:350:LYS:NZ	2.29	0.48
1:EH:217:LEU:HG	1:EH:220:PRO:HD3	1.95	0.48
1:EJ:316:LEU:HD23	1:EJ:352:SER:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EJ:334:GLN:HE21	1:EJ:349:ILE:HG13	1.79	0.48
1:F:323:THR:OG1	2:FA:210:TYR:OH	2.20	0.48
1:FB:371:ASN:OD1	1:FB:372:THR:N	2.46	0.48
2:FC:137:VAL:HG21	2:FC:154:LEU:HD21	1.95	0.48
1:FF:296:ALA:O	63:4I:280:ARG:NH1	2.46	0.48
1:FH:117:LEU:HD11	1:FH:154:LYS:HD3	1.95	0.48
1:FH:218:THR:HG21	24:1I:462:ARG:HE	1.79	0.48
1:FJ:237:THR:HG22	1:FJ:250:LEU:HD21	1.96	0.48
1:FJ:314:SER:HG	1:FJ:368:ILE:HB	1.79	0.48
1:FL:187:LEU:HD21	1:FL:408:PHE:CE2	2.49	0.48
1:GB:102:ALA:HB2	1:GB:403:MET:HE2	1.96	0.48
1:GB:238:CYS:CB	1:GB:318:ARG:HE	2.27	0.48
2:GC:101:ASN:ND2	2:GC:143:GLY:HA2	2.28	0.48
2:GE:372:GLN:CD	2:GE:372:GLN:H	2.22	0.48
1:GF:207:LEU:HD22	1:GF:228:LEU:HD12	1.96	0.48
2:GI:118:ALA:O	2:GI:122:ILE:HG12	2.13	0.48
2:GI:338:LYS:HZ1	59:4P:8:LEU:HD13	1.79	0.48
2:GK:158:SER:OG	2:GK:197:HIS:HB3	2.14	0.48
1:GL:139:LEU:HD12	1:GL:170:ILE:HG13	1.96	0.48
1:GL:289:LEU:HD11	1:GL:363:MET:HG3	1.96	0.48
2:HC:200:VAL:HG23	2:HC:256:GLN:OE1	2.13	0.48
1:HD:411:ALA:HA	1:HD:414:ASN:HD21	1.78	0.48
2:HI:158:SER:OG	2:HI:166:LYS:NZ	2.47	0.48
1:HL:104:GLY:O	1:HL:147:MET:HB2	2.13	0.48
1:I:208:TYR:HA	1:I:211:CYS:SG	2.54	0.48
2:IA:166:LYS:HB2	2:IA:199:ASP:H	1.79	0.48
2:IA:274:PRO:HG2	2:IA:371:VAL:HG21	1.95	0.48
1:ID:242:PHE:HB2	1:ID:354:CYS:SG	2.53	0.48
1:IF:109:GLY:HA2	1:IF:147:MET:HE2	1.95	0.48
2:IK:213:THR:HA	2:IK:217:LEU:HB2	1.96	0.48
2:JB:173:PRO:HG3	2:JB:183:GLU:HG2	1.95	0.48
2:JD:90:GLU:HG3	2:JD:91:GLN:H	1.79	0.48
1:JG:193:VAL:HG13	1:JG:194:GLU:HG3	1.96	0.48
1:JI:204:ASN:OD1	69:JI:500:GDP:O2'	2.23	0.48
1:JK:203:ASP:HB3	1:JK:301:GLN:HA	1.94	0.48
2:JL:430:LYS:O	2:JL:433:GLU:HG3	2.13	0.48
2:K:288:VAL:HA	2:K:291:ILE:HG12	1.94	0.48
1:KC:347:ASN:ND2	2:KD:178:SER:HB3	2.26	0.48
2:KH:21:TRP:CZ2	2:KH:65:CYS:HB3	2.49	0.48
2:KH:115:VAL:HG21	2:KH:156:ARG:HG3	1.94	0.48
2:KJ:237:SER:HA	2:KJ:320:ARG:HD2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KJ:247:ALA:HB3	2:KJ:355:ILE:HB	1.95	0.48
1:KK:55:SER:HB3	1:LK:283:GLY:HA2	1.94	0.48
1:KK:121:ARG:NH1	1:KK:158:GLU:OE2	2.46	0.48
1:KK:357:PRO:O	52:3U:383:ARG:NH2	2.47	0.48
1:KM:343:GLU:O	1:KM:346:PRO:HD3	2.14	0.48
2:L:26:LEU:HD12	2:L:363:VAL:HG12	1.95	0.48
1:LA:299:MET:HE1	1:LA:367:PHE:CD2	2.48	0.48
1:LC:344:TRP:CZ3	2:LD:403:ALA:HB2	2.46	0.48
2:LF:70:LEU:HD22	2:LF:110:ILE:HG22	1.96	0.48
1:LG:282:ARG:HD3	1:LG:288:GLU:HG2	1.96	0.48
2:LH:187:CYS:O	2:LH:191:THR:HG23	2.13	0.48
1:LI:270:PHE:CE2	23:1E:161:LEU:HD23	2.49	0.48
1:LI:404:ASP:HB3	1:LI:407:GLU:HG3	1.96	0.48
2:LJ:164:LYS:HA	2:LJ:164:LYS:HD2	1.66	0.48
2:LL:173:PRO:HG3	2:LL:183:GLU:HG2	1.95	0.48
2:LL:275:VAL:O	2:LL:275:VAL:HG13	2.14	0.48
1:LO:362:LYS:HZ3	23:1F:330:TRP:HB3	1.77	0.48
2:MA:237:SER:HA	2:MA:320:ARG:HD2	1.96	0.48
1:MF:336:LYS:HD2	13:0Z:71:LYS:NZ	2.28	0.48
2:MI:67:PHE:HB2	2:MI:92:LEU:HD12	1.94	0.48
2:MI:349:THR:OG1	2:MI:350:GLY:N	2.47	0.48
2:MK:324:VAL:HG12	2:MK:326:LYS:H	1.79	0.48
2:MK:406:HIS:HA	2:MK:409:VAL:HG22	1.95	0.48
1:ML:68:LEU:HD12	1:ML:97:ALA:HB2	1.95	0.48
1:ML:233:MET:O	1:ML:236:VAL:HG12	2.13	0.48
2:NA:67:PHE:HB2	2:NA:92:LEU:HD12	1.96	0.48
2:NC:91:GLN:H	2:NC:121:ARG:HD2	1.79	0.48
2:NG:251:ASP:H	2:NG:254:GLU:CB	2.26	0.48
2:NK:346:TRP:CG	1:NL:391:ARG:HG3	2.49	0.48
2:NK:388:PHE:HA	2:NK:391:ILE:HG22	1.95	0.48
2:NM:3:GLU:OE2	2:NM:64:ARG:HD3	2.13	0.48
2:NM:311:LYS:HD3	2:NM:342:GLN:HG3	1.96	0.48
2:OC:340:THR:HG23	2:OC:341:ILE:HG23	1.95	0.48
1:OF:213:ARG:HD2	1:OF:297:LYS:HD2	1.95	0.48
2:OG:330:ALA:O	2:OG:334:THR:HG23	2.14	0.48
2:OI:275:VAL:O	2:OI:275:VAL:HG13	2.14	0.48
1:OJ:73:MET:HA	1:OJ:76:VAL:HG12	1.96	0.48
1:OJ:310:TYR:CD1	1:OJ:371:ASN:HB3	2.49	0.48
2:PA:258:ASN:HD21	2:PA:352:LYS:HD3	1.78	0.48
1:PB:8:GLN:HE22	1:PB:21:TRP:CD1	2.32	0.48
2:PC:236:SER:HA	2:PC:239:THR:HG22	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PC:345:ASP:OD1	2:PC:346:TRP:N	2.46	0.48
1:PD:5:VAL:HG12	1:PD:130:LEU:HD11	1.96	0.48
1:PD:276:ARG:HH22	41:2k:172:ASP:HA	1.79	0.48
2:PE:26:LEU:HD21	2:PE:364:PRO:HD3	1.95	0.48
2:PE:133:GLN:HE22	2:PE:251:ASP:HB3	1.78	0.48
2:PE:215:ARG:NH1	2:PE:216:SER:OG	2.47	0.48
1:PF:292:GLN:O	1:PF:298:ASN:ND2	2.32	0.48
1:PH:19:LYS:HG3	1:PH:226:ASN:HB2	1.95	0.48
1:PH:208:TYR:HE1	1:PH:225:LEU:HD11	1.79	0.48
2:PI:251:ASP:H	2:PI:254:GLU:CB	2.26	0.48
2:PI:311:LYS:H	2:PI:382:THR:HB	1.79	0.48
1:PJ:152:ILE:HG12	1:PJ:164:MET:HE2	1.96	0.48
1:PL:239:CYS:HB3	1:PL:248:SER:H	1.79	0.48
1:QA:215:LEU:HD11	1:QA:228:LEU:HD21	1.96	0.48
2:QB:175:PRO:HB2	2:QB:390:ARG:HE	1.78	0.48
2:QB:260:VAL:HB	1:QC:397:TRP:HZ2	1.77	0.48
2:QB:365:GLY:O	41:2h:320:LYS:NZ	2.37	0.48
2:QJ:3:GLU:HA	2:QJ:51:THR:HA	1.95	0.48
1:QK:256:ASN:OD1	2:QL:101:ASN:ND2	2.40	0.48
2:QL:279:GLU:HA	2:QL:282:TYR:HE1	1.78	0.48
1:RA:262:ARG:HH12	1:RA:418:LEU:HB2	1.77	0.48
1:RE:107:THR:HG23	1:RE:108:GLU:HG2	1.95	0.48
1:RE:133:PHE:HD1	1:RE:164:MET:HE1	1.77	0.48
1:RE:377:MET:HG2	1:RE:380:ARG:NH2	2.29	0.48
1:RG:141:GLY:O	1:RG:145:SER:OG	2.23	0.48
1:RG:392:LYS:HZ3	1:RG:405:GLU:CD	2.22	0.48
2:RH:241:SER:HB2	2:RH:250:VAL:H	1.78	0.48
2:RJ:258:ASN:HD22	2:RJ:352:LYS:HD3	1.77	0.48
1:RK:355:ASP:OD2	28:1Y:144:THR:OG1	2.32	0.48
2:SA:66:LEU:HA	2:SA:91:GLN:HG2	1.96	0.48
1:SB:245:GLN:CD	28:1U:145:THR:HG21	2.39	0.48
1:SD:20:PHE:HA	1:SD:230:ALA:HB1	1.95	0.48
1:SD:185:THR:O	1:SD:189:VAL:HG23	2.13	0.48
2:SG:64:ARG:NH1	2:SG:129:CYS:SG	2.87	0.48
2:SG:204:LEU:HD12	2:SG:231:ILE:HG12	1.96	0.48
2:SI:244:PHE:HB2	2:SI:356:ASN:HD21	1.79	0.48
1:SJ:345:ILE:HD13	2:SK:398:MET:HG2	1.95	0.48
1:T:12:CYS:O	1:T:16:ILE:HG12	2.14	0.48
1:T:22:GLU:HG2	1:T:81:TYR:CD2	2.49	0.48
1:T:274:THR:HG22	1:T:282:ARG:HH11	1.78	0.48
1:T:330:MET:O	1:T:334:GLN:HG2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:TG:269:LEU:HD22	2:TG:303:THR:HB	1.95	0.48
1:TH:175:VAL:O	1:TH:175:VAL:HG12	2.14	0.48
2:TI:239:THR:HG23	2:TI:243:ARG:HH11	1.79	0.48
2:TK:265:ILE:HD11	57:3i:190:LEU:HD21	1.95	0.48
1:TL:3:GLU:OE2	1:TL:128:ASP:N	2.47	0.48
1:TL:276:ARG:HA	1:TL:279:GLN:HE22	1.79	0.48
1:TL:305:PRO:HB2	1:TL:306:ARG:NH2	2.29	0.48
2:UA:53:PHE:C	2:UA:64:ARG:HD2	2.38	0.48
2:UA:169:TYR:HE2	2:UA:235:VAL:HG22	1.77	0.48
2:UE:89:PRO:HG2	2:VE:280:LYS:HG2	1.95	0.48
2:UE:131:GLY:O	2:UE:133:GLN:NE2	2.47	0.48
2:UE:147:SER:HB2	2:UE:190:SER:HB3	1.96	0.48
1:UF:247:ASN:OD1	2:UG:11:GLN:NE2	2.46	0.48
1:UH:332:ASN:HD22	1:UH:336:LYS:NZ	2.05	0.48
1:UJ:253:LEU:HD21	1:UJ:316:LEU:HD21	1.96	0.48
1:UL:131:GLN:NE2	1:UL:250:LEU:HB2	2.27	0.48
1:V:161:ASP:OD1	1:V:162:ARG:HD2	2.13	0.48
2:VA:158:SER:OG	2:VA:197:HIS:HB3	2.14	0.48
2:VA:326:LYS:NZ	1:VB:219:THR:HA	2.29	0.48
2:VE:167:LEU:HD13	2:VE:252:LEU:HD12	1.95	0.48
1:VF:168:SER:O	1:VF:201:CYS:HA	2.14	0.48
1:VH:141:GLY:O	1:VH:145:SER:OG	2.23	0.48
1:W:287:ALA:HA	1:W:329:GLN:NE2	2.28	0.48
2:WG:345:ASP:OD2	2:WG:346:TRP:N	2.46	0.48
1:WH:204:ASN:OD1	69:WH:500:GDP:O2'	2.23	0.48
2:WI:160:ASP:OD2	2:WI:161:TYR:N	2.47	0.48
3:X:34:VAL:HG22	3:X:49:ILE:HG12	1.95	0.48
3:XC:115:LYS:HD2	3:XC:118:ILE:HG23	1.94	0.48
3:XF:34:VAL:HG22	3:XF:49:ILE:HG23	1.96	0.48
7:0D:215:LYS:HD2	18:0p:296:ARG:HD3	1.96	0.48
8:0G:173:ALA:O	8:0G:177:GLN:HG2	2.14	0.48
8:0G:209:ARG:NH1	8:0G:209:ARG:HB2	2.28	0.48
8:0J:444:GLU:OE2	8:0J:448:GLN:NE2	2.46	0.48
9:0L:551:ALA:HB1	9:0L:570:ASN:HB2	1.94	0.48
9:0L:594:SER:OG	9:0L:612:ASP:OD2	2.32	0.48
9:0N:447:ARG:HD2	9:0N:458:LEU:HD11	1.95	0.48
9:0O:155:THR:HA	9:0O:172:GLY:HA3	1.95	0.48
10:0R:72:ARG:NH1	47:3D:5:GLU:OE2	2.47	0.48
11:0U:277:VAL:HB	11:0U:278:PRO:HD3	1.94	0.48
13:0Z:152:MET:HE1	32:2C:168:TYR:HA	1.95	0.48
13:0Z:168:ASP:HA	33:2H:155:ARG:HH12	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:0k:33:PHE:O	16:0k:35:ARG:NH1	2.46	0.48
17:0o:396:ILE:HD12	17:0o:396:ILE:H	1.78	0.48
18:0p:295:LEU:HA	18:0p:298:ARG:HB3	1.96	0.48
20:0t:137:TYR:HA	20:0t:191:ILE:HG23	1.95	0.48
20:0u:216:ARG:HG3	20:0u:216:ARG:HH11	1.79	0.48
23:1A:105:GLU:O	23:1A:109:ILE:HG12	2.14	0.48
23:1B:340:MET:HA	24:1J:51:VAL:HG11	1.96	0.48
23:1E:376:GLN:NE2	29:1j:203:GLU:OE2	2.47	0.48
24:1I:93:ARG:HG3	54:3a:98:LEU:HD11	1.96	0.48
24:1I:257:CYS:HB2	24:1I:276:LEU:HB3	1.95	0.48
24:1J:261:TRP:HB2	24:1J:356:VAL:HG22	1.95	0.48
24:1K:101:CYS:HB3	24:1K:178:TYR:CD2	2.48	0.48
25:1O:464:ALA:HB3	25:1O:479:PHE:HB2	1.96	0.48
25:1O:519:ASN:HD21	42:2r:386:VAL:HG13	1.79	0.48
26:1Q:238:GLU:HA	26:1Q:241:LYS:HG2	1.96	0.48
27:1S:40:ASP:OD1	27:1S:41:GLN:N	2.47	0.48
29:1j:16:ARG:NH2	29:1j:29:ASN:OD1	2.46	0.48
30:1o:77:ARG:NH1	53:3W:270:LEU:HD22	2.29	0.48
38:2U:116:ARG:HB3	38:2U:120:ARG:NH1	2.27	0.48
44:2v:211:LYS:HA	44:2v:380:ASP:OD2	2.14	0.48
49:3Q:344:ARG:NE	49:3Q:384:CYS:SG	2.87	0.48
64:5C:89:ALA:HB1	64:5C:93:LYS:HZ1	1.78	0.48
64:5C:150:ARG:HG2	64:5C:150:ARG:HH11	1.78	0.48
66:5K:90:LEU:HD21	66:5K:97:ALA:HA	1.96	0.48
1:A:324:LYS:HZ1	2:AA:221:ARG:HA	1.78	0.48
1:AB:8:GLN:HE22	1:AB:21:TRP:NE1	2.11	0.48
2:AE:150:GLY:O	2:AE:154:LEU:HD23	2.13	0.48
1:AF:34:GLY:HA3	1:AF:58:ARG:HG3	1.94	0.48
1:AF:226:ASN:HA	1:AF:229:VAL:HG12	1.96	0.48
1:AH:163:ILE:HG21	1:AH:250:LEU:HB3	1.96	0.48
2:AI:121:ARG:HA	2:AI:124:LYS:NZ	2.28	0.48
1:AN:313:ALA:HB3	1:AN:349:ILE:HD13	1.95	0.48
1:BB:346:PRO:HG2	2:BC:394:LYS:HD3	1.95	0.48
2:BC:331:ALA:O	2:BC:335:ILE:HG12	2.13	0.48
1:BD:4:ILE:HB	1:BD:50:TYR:HE1	1.78	0.48
1:BD:324:LYS:NZ	2:BE:222:PRO:HD2	2.28	0.48
2:BE:219:ILE:HD11	16:0k:306:ARG:HH22	1.79	0.48
2:BG:123:ARG:HH12	2:BG:127:ASP:HB3	1.79	0.48
2:BG:209:ILE:HG23	2:BG:230:LEU:HD23	1.95	0.48
1:BJ:61:PRO:HD3	1:BJ:84:LEU:HG	1.95	0.48
2:BK:209:ILE:HG12	2:BK:302:LEU:CD1	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BL:248:SER:HB2	1:BL:252:LYS:HG2	1.94	0.48
1:BN:325:GLU:N	1:BN:325:GLU:OE1	2.46	0.48
2:C:209:ILE:HG21	2:C:227:VAL:HA	1.96	0.48
1:CA:61:PRO:HD3	1:CA:84:LEU:HG	1.95	0.48
1:CC:324:LYS:CE	2:CD:222:PRO:HD2	2.44	0.48
1:CC:345:ILE:HD11	2:CD:404:PHE:CE2	2.49	0.48
2:CD:332:ILE:O	2:CD:336:LYS:HG2	2.12	0.48
2:CF:254:GLU:O	2:CF:258:ASN:ND2	2.47	0.48
2:CJ:133:GLN:O	2:CJ:165:SER:CB	2.61	0.48
2:CJ:138:PHE:HE1	2:CJ:235:VAL:HG21	1.77	0.48
2:D:204:LEU:HD13	2:D:231:ILE:HG23	1.96	0.48
2:DB:153:LEU:O	2:DB:157:LEU:HD23	2.13	0.48
1:DC:179:VAL:HG23	1:DC:180:VAL:HG13	1.94	0.48
1:DE:215:LEU:HB3	1:DE:217:LEU:HG	1.96	0.48
2:DF:352:LYS:NZ	1:DG:99:ASN:HD21	2.12	0.48
1:DK:290:THR:HG21	1:DK:329:GLN:HB3	1.96	0.48
1:DK:309:ARG:HH21	1:DK:342:ILE:HA	1.78	0.48
2:DL:251:ASP:H	2:DL:254:GLU:CB	2.25	0.48
1:EB:273:LEU:H	1:EB:292:GLN:HE22	1.62	0.48
2:EC:252:LEU:HA	2:EC:255:PHE:CE1	2.49	0.48
1:ED:76:VAL:HG13	1:ED:90:PHE:HE2	1.79	0.48
1:ED:203:ASP:OD2	1:ED:302:ALA:HB3	2.13	0.48
2:EG:211:ASP:O	2:EG:215:ARG:HG2	2.14	0.48
1:EJ:150:LEU:O	1:EJ:154:LYS:HG2	2.13	0.48
1:FD:7:CYS:O	1:FD:135:LEU:HA	2.13	0.48
1:FD:22:GLU:HG2	1:FD:81:TYR:CD1	2.48	0.48
2:FE:173:PRO:HG3	2:FE:183:GLU:HG2	1.96	0.48
1:FH:133:PHE:CD1	1:FH:164:MET:HE1	2.48	0.48
1:FJ:255:VAL:HG21	2:FK:100:ALA:O	2.14	0.48
1:G:247:ASN:C	1:G:247:ASN:ND2	2.72	0.48
1:GB:210:ILE:HD11	1:GB:298:ASN:HA	1.95	0.48
2:GE:145:THR:HG22	71:GE:501:GTP:PG	2.53	0.48
1:GJ:143:THR:O	1:GJ:147:MET:HB3	2.14	0.48
2:GK:208:ALA:HB3	2:GK:302:LEU:C	2.39	0.48
1:H:285:SER:OG	1:H:288:GLU:OE1	2.23	0.48
1:HB:347:ASN:ND2	2:HC:178:SER:O	2.46	0.48
2:HE:278:ALA:HB1	17:0n:313:LEU:HD22	1.95	0.48
1:HF:175:VAL:HG12	1:HF:175:VAL:O	2.14	0.48
1:HJ:416:ASN:HA	1:HJ:419:VAL:HG22	1.95	0.48
1:HL:77:ARG:HD3	1:HL:90:PHE:CE2	2.49	0.48
1:I:44:LEU:HD13	38:2U:116:ARG:HG3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:350:LYS:HZ3	2:IA:180:ALA:CA	2.22	0.48
2:IA:5:ILE:HD12	2:IA:132:LEU:HD13	1.96	0.48
1:IB:292:GLN:HG2	1:IB:298:ASN:ND2	2.29	0.48
2:IE:293:ASN:O	2:IE:297:GLU:HG2	2.14	0.48
2:II:207:GLU:HG3	2:II:304:LYS:HG3	1.96	0.48
2:J:322:ASP:OD2	2:J:373:ARG:HG3	2.14	0.48
2:J:367:ASP:OD2	2:J:368:LEU:HD12	2.13	0.48
2:JB:205:ASP:OD2	2:JB:303:THR:HA	2.14	0.48
1:JC:327:ASP:HA	1:JC:330:MET:HG2	1.95	0.48
2:JD:152:LEU:O	2:JD:156:ARG:HG2	2.13	0.48
1:JE:364:SER:OG	1:JE:365:VAL:N	2.47	0.48
2:JF:328:VAL:O	2:JF:332:ILE:HG12	2.13	0.48
2:JF:349:THR:OG1	1:JG:179:VAL:HA	2.14	0.48
2:JJ:3:GLU:HB2	2:JJ:129:CYS:SG	2.54	0.48
1:JK:197:ASP:OD1	1:JK:198:GLU:N	2.47	0.48
1:JM:371:ASN:OD1	1:JM:372:THR:N	2.47	0.48
2:JN:132:LEU:HD21	2:JN:135:PHE:CE1	2.49	0.48
2:K:180:ALA:HB3	2:K:183:GLU:HB2	1.96	0.48
1:KA:345:ILE:HG23	2:KB:398:MET:HE1	1.95	0.48
2:KB:240:ALA:HA	2:KB:243:ARG:HB2	1.95	0.48
1:KE:248:SER:HA	1:KE:252:LYS:HD2	1.96	0.48
1:KE:320:ARG:HH12	45:2y:349:THR:HA	1.78	0.48
1:KI:385:PHE:CE2	1:KI:412:GLU:HB2	2.48	0.48
2:KJ:296:PHE:CE2	2:KJ:377:MET:HE1	2.49	0.48
1:KK:289:LEU:HD22	1:KK:365:VAL:HG12	1.95	0.48
1:KM:99:ASN:ND2	1:KM:141:GLY:HA2	2.29	0.48
2:KN:70:LEU:HD22	2:KN:110:ILE:HG22	1.95	0.48
1:LA:189:VAL:O	1:LA:193:VAL:HG23	2.13	0.48
1:LE:235:GLY:HA3	1:LE:366:THR:HG21	1.96	0.48
1:LE:375:GLN:HB2	1:LE:419:VAL:HG13	1.96	0.48
1:LG:165:MET:HG3	1:LG:200:MET:HE1	1.96	0.48
2:LH:262:TYR:HB2	2:LH:265:ILE:HG12	1.94	0.48
1:LI:326:VAL:HG21	1:LI:353:ILE:HD11	1.95	0.48
2:LJ:90:GLU:O	2:LJ:91:GLN:HG3	2.14	0.48
1:LK:43:GLN:NE2	45:2z:79:LEU:HB2	2.28	0.48
1:LK:325:GLU:OE2	2:LL:221:ARG:HA	2.13	0.48
2:LN:122:ILE:HG21	2:LN:157:LEU:HD21	1.96	0.48
1:M:139:LEU:HD13	1:M:188:SER:HB2	1.96	0.48
1:M:149:THR:O	1:M:152:ILE:HG22	2.13	0.48
1:MB:210:ILE:O	1:MB:214:THR:OG1	2.31	0.48
1:MD:336:LYS:HA	32:2B:222:PRO:CB	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MG:33:ASP:O	2:MG:60:LYS:NZ	2.45	0.48
2:MG:240:ALA:HA	2:MG:243:ARG:HG3	1.96	0.48
2:MI:11:GLN:N	71:MI:501:GTP:O2B	2.47	0.48
2:MK:265:ILE:HG21	2:MK:313:MET:HE1	1.94	0.48
1:ML:73:MET:HE1	1:ML:91:ILE:O	2.13	0.48
1:ML:316:LEU:HB2	1:ML:366:THR:HB	1.95	0.48
1:MN:316:LEU:HD13	1:MN:352:SER:OG	2.13	0.48
1:N:389:PHE:HD2	1:N:390:ARG:HH12	1.61	0.48
2:NC:98:ASP:OD1	2:NC:99:ALA:N	2.46	0.48
2:NE:11:GLN:HE21	2:NE:15:GLN:HE22	1.61	0.48
2:NE:64:ARG:HD3	2:NE:129:CYS:SG	2.54	0.48
2:NI:219:ILE:HG13	2:NI:222:PRO:HG3	1.95	0.48
1:NJ:165:MET:HE3	1:NJ:167:PHE:CE2	2.48	0.48
2:NK:25:CYS:HB2	2:NK:30:ILE:HG13	1.94	0.48
1:NL:20:PHE:HD1	1:NL:233:MET:HB3	1.76	0.48
2:NM:51:THR:HG21	2:NM:243:ARG:HG2	1.94	0.48
2:NM:105:ARG:HG2	2:NM:411:GLU:HG2	1.96	0.48
1:OB:406:MET:O	1:OB:409:THR:OG1	2.28	0.48
2:OC:5:ILE:HD13	2:OC:64:ARG:HB3	1.95	0.48
1:OH:311:LEU:O	1:OH:348:ASN:ND2	2.39	0.48
1:OJ:204:ASN:OD1	69:OJ:500:GDP:O2'	2.29	0.48
2:OM:372:GLN:OE1	41:2p:465:GLN:HG3	2.14	0.48
2:PC:390:ARG:O	2:PC:394:LYS:HG3	2.14	0.48
1:PH:175:VAL:O	1:PH:175:VAL:HG12	2.14	0.48
1:PH:313:ALA:HB3	1:PH:349:ILE:HG12	1.94	0.48
2:PI:213:THR:HG22	2:PI:219:ILE:HB	1.96	0.48
1:PL:6:SER:O	1:PL:63:ALA:HA	2.14	0.48
1:PL:226:ASN:OD1	69:PL:500:GDP:N1	2.32	0.48
1:QA:395:LEU:HD11	1:QA:408:PHE:CD2	2.49	0.48
1:QC:331:LEU:HD12	2:QD:177:VAL:HA	1.95	0.48
1:QE:347:ASN:O	2:QF:181:VAL:HG12	2.13	0.48
2:QF:21:TRP:CZ2	2:QF:65:CYS:HB3	2.49	0.48
2:QF:186:ASN:OD1	2:QF:408:TYR:OH	2.27	0.48
2:QH:313:MET:HG3	2:QH:344:VAL:HG11	1.96	0.48
2:QJ:21:TRP:CZ2	2:QJ:65:CYS:HB3	2.49	0.48
1:QK:293:MET:HE1	1:QK:315:ALA:HB2	1.96	0.48
2:R:271:SER:HB3	2:R:301:MET:HB2	1.95	0.48
1:RA:242:PHE:HB2	1:RA:354:CYS:SG	2.54	0.48
1:RE:317:PHE:HD2	1:RE:321:MET:HE1	1.77	0.48
1:RG:48:ASN:O	1:RG:62:ARG:NH2	2.46	0.48
1:RG:313:ALA:HB3	1:RG:349:ILE:HG12	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RI:3:GLU:HA	1:RI:49:VAL:HG13	1.96	0.48
2:RJ:254:GLU:OE1	1:RK:99:ASN:HB2	2.14	0.48
1:RK:255:VAL:HG23	2:RL:407:TRP:CG	2.49	0.48
1:S:350:LYS:HA	2:SA:179:THR:O	2.13	0.48
1:SB:233:MET:O	1:SB:236:VAL:HG12	2.14	0.48
2:SE:189:LEU:HD23	2:SE:413:MET:HE1	1.96	0.48
1:SH:126:SER:OG	61:3x:32:ARG:NH1	2.46	0.48
1:SH:215:LEU:HB3	1:SH:217:LEU:HD13	1.95	0.48
2:SI:167:LEU:HD11	2:SI:255:PHE:HZ	1.78	0.48
1:T:185:THR:O	1:T:189:VAL:HG22	2.13	0.48
1:T:306:ARG:HD2	61:3w:125:PRO:HG2	1.96	0.48
2:TA:118:ALA:O	2:TA:122:ILE:HG12	2.14	0.48
2:TC:184:PRO:HA	2:TC:391:ILE:HD11	1.95	0.48
1:TD:208:TYR:CZ	1:TD:225:LEU:HD11	2.49	0.48
1:TF:86:ARG:HH12	1:UF:282:ARG:HA	1.79	0.48
2:TK:71:GLU:OE1	2:TK:73:THR:OG1	2.25	0.48
2:TK:311:LYS:N	2:TK:382:THR:OG1	2.43	0.48
1:U:244:GLY:HA3	1:U:354:CYS:HA	1.96	0.48
1:UB:267:MET:HG2	1:UB:299:MET:HE3	1.96	0.48
1:UD:244:GLY:HA3	1:UD:354:CYS:HA	1.96	0.48
1:UD:248:SER:HA	1:UD:252:LYS:HE2	1.96	0.48
1:UF:385:PHE:O	1:UF:389:PHE:HB2	2.14	0.48
1:UH:377:MET:HA	1:UH:380:ARG:HG2	1.95	0.48
1:UL:11:GLN:HB2	69:UL:500:GDP:O1A	2.13	0.48
1:V:35:THR:OG1	1:V:37:GLN:NE2	2.46	0.48
1:VB:113:ILE:HA	1:VB:116:VAL:HG12	1.96	0.48
2:VC:180:ALA:HB3	2:VC:183:GLU:HB2	1.96	0.48
1:VD:20:PHE:HA	1:VD:230:ALA:HB1	1.96	0.48
2:VE:118:ALA:O	2:VE:122:ILE:HG12	2.14	0.48
1:VF:161:ASP:OD1	1:VF:161:ASP:N	2.47	0.48
2:VG:244:PHE:HB2	2:VG:356:ASN:HD21	1.78	0.48
2:VI:138:PHE:HE2	2:VI:235:VAL:HG21	1.79	0.48
2:VK:1:MET:N	2:VK:3:GLU:OE2	2.29	0.48
2:VK:138:PHE:HE2	2:VK:235:VAL:HG21	1.77	0.48
2:VK:399:TYR:O	2:VK:402:ARG:NH1	2.46	0.48
2:VM:119:LEU:O	2:VM:123:ARG:HG2	2.13	0.48
2:VM:322:ASP:OD2	2:VM:373:ARG:NH2	2.45	0.48
2:VM:396:ASP:O	2:VM:400:SER:OG	2.31	0.48
1:WF:101:TRP:HB3	1:WF:398:TYR:HE2	1.78	0.48
2:WG:268:VAL:HG23	2:WG:379:ALA:C	2.39	0.48
2:WI:288:VAL:HB	2:WI:327:ASP:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:WI:291:ILE:O	2:WI:295:VAL:HG23	2.14	0.48
3:XA:49:ILE:O	3:XA:159:ASN:N	2.47	0.48
3:XC:68:THR:HG21	3:XC:152:LEU:HD23	1.96	0.48
4:XM:293:TYR:CE1	4:XM:297:LYS:NZ	2.82	0.48
5:XN:101:ALA:O	5:XN:113:PRO:HG2	2.14	0.48
4:XQ:293:TYR:OH	4:XQ:297:LYS:NZ	2.47	0.48
6:0A:58:LEU:HD22	6:0A:170:VAL:HG11	1.96	0.48
8:0J:257:ALA:HA	8:0J:260:ILE:HG12	1.96	0.48
10:0R:65:ASN:HB2	47:3D:118:GLN:HG3	1.94	0.48
10:0R:265:MET:O	10:0R:269:LEU:HD23	2.14	0.48
13:0Y:104:PRO:HB2	13:0Y:107:ASN:HD21	1.79	0.48
16:0k:14:LYS:HD2	16:0k:57:LEU:HD13	1.96	0.48
20:0t:162:THR:H	20:0t:165:CYS:HB3	1.79	0.48
21:0x:431:PHE:HD2	21:0x:436:GLU:HG3	1.79	0.48
23:1A:220:GLU:HB3	45:2y:184:LEU:HD21	1.95	0.48
24:1K:111:GLU:OE2	24:1K:114:ARG:NE	2.47	0.48
24:1K:209:TYR:OH	24:1K:213:ARG:NH2	2.47	0.48
24:1K:239:ALA:HA	24:1K:242:ARG:NH1	2.28	0.48
27:1S:641:SER:O	27:1S:644:ARG:NH1	2.47	0.48
29:1j:39:SER:OG	49:3P:414:GLU:OE2	2.25	0.48
32:2B:255:THR:N	32:2B:258:THR:O	2.44	0.48
38:2U:222:ILE:HA	38:2U:225:MET:HG2	1.95	0.48
44:2w:341:HIS:CG	44:2w:342:PRO:HD2	2.49	0.48
60:3r:19:ASN:OD1	60:3r:20:TYR:N	2.47	0.48
1:AD:324:LYS:HG3	2:AE:222:PRO:HD2	1.94	0.48
1:AF:255:VAL:HG11	2:AG:100:ALA:O	2.14	0.48
2:AG:167:LEU:HD21	2:AG:255:PHE:HZ	1.79	0.48
1:AN:133:PHE:HB2	1:AN:164:MET:SD	2.54	0.48
2:BA:224:TYR:HA	2:BA:227:VAL:HG22	1.94	0.48
1:BD:280:GLN:HE21	1:BD:280:GLN:H	1.62	0.48
2:BE:51:THR:HG21	2:BE:243:ARG:HG2	1.95	0.48
2:BE:157:LEU:O	2:BE:161:TYR:HB2	2.13	0.48
2:BE:192:HIS:CE1	2:BE:421:ALA:HA	2.49	0.48
1:BF:252:LYS:CD	2:BG:100:ALA:HA	2.44	0.48
1:BN:236:VAL:HG13	1:BN:237:THR:HG23	1.96	0.48
2:C:173:PRO:HG3	2:C:183:GLU:HG2	1.96	0.48
2:C:395:PHE:HE2	2:C:422:ARG:HB2	1.78	0.48
1:CC:18:SER:O	1:CC:22:GLU:HG2	2.13	0.48
1:CE:177:ASP:N	1:CE:177:ASP:OD1	2.46	0.48
1:CE:200:MET:HG2	1:CE:268:MET:HE3	1.95	0.48
2:CL:191:THR:HG21	2:CL:425:LEU:HD13	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:405:GLU:O	1:DA:409:THR:HG23	2.13	0.48
1:DG:324:LYS:HB3	1:DG:325:GLU:OE1	2.14	0.48
2:DJ:408:TYR:HB3	2:DJ:413:MET:HE2	1.96	0.48
2:DL:205:ASP:OD1	2:DL:303:THR:HA	2.13	0.48
1:DM:110:ALA:O	1:DM:113:ILE:HG22	2.14	0.48
1:EB:236:VAL:HG13	1:EB:237:THR:HG23	1.96	0.48
1:ED:249:ASP:O	1:ED:253:LEU:HG	2.13	0.48
1:EF:156:ARG:NH1	1:EF:160:PRO:O	2.47	0.48
1:EF:324:LYS:HB2	2:EG:222:PRO:HD2	1.95	0.48
1:EH:252:LYS:HZ3	2:EI:100:ALA:HA	1.79	0.48
2:EI:241:SER:HB2	2:EI:250:VAL:H	1.79	0.48
1:EL:183:TYR:CE1	1:EL:389:PHE:CZ	3.02	0.48
2:FC:295:VAL:HG21	2:FC:375:VAL:HG13	1.95	0.48
2:FG:365:GLY:H	42:2r:319:GLU:CD	2.22	0.48
2:GE:336:LYS:HE3	2:GE:351:PHE:HD2	1.79	0.48
2:GG:346:TRP:HE3	1:GH:388:MET:HG2	1.78	0.48
1:GH:42:LEU:HD13	1:GH:356:ILE:HD11	1.96	0.48
2:GK:256:GLN:O	2:GK:260:VAL:HG22	2.13	0.48
1:GL:7:CYS:O	1:GL:135:LEU:HA	2.14	0.48
1:GL:172:SER:OG	1:GL:205:GLU:OE1	2.25	0.48
1:H:113:ILE:HA	1:H:116:VAL:HG22	1.95	0.48
1:HB:170:ILE:HD13	1:HB:201:CYS:HB3	1.96	0.48
2:HG:147:SER:HB2	2:HG:190:SER:HB3	1.95	0.48
2:HI:425:LEU:O	2:HI:428:LEU:HB2	2.14	0.48
1:HJ:229:VAL:HG12	1:HJ:233:MET:HE2	1.95	0.48
2:HK:105:ARG:HG2	2:HK:411:GLU:CD	2.39	0.48
2:HK:323:VAL:HG23	2:HK:355:ILE:HG23	1.94	0.48
2:HK:328:VAL:O	2:HK:332:ILE:HG12	2.14	0.48
1:HL:68:LEU:HD23	1:HL:143:THR:HG23	1.96	0.48
2:HM:258:ASN:HB3	2:HM:352:LYS:HG3	1.96	0.48
2:HM:271:SER:HB3	2:HM:301:MET:HG3	1.95	0.48
1:I:19:LYS:NZ	7:0C:271:ARG:HH12	2.12	0.48
1:I:183:TYR:OH	1:I:395:LEU:HD22	2.14	0.48
1:I:309:ARG:H	1:I:372:THR:HG1	1.58	0.48
2:IA:88:ASN:ND2	2:IA:90:GLU:OE2	2.46	0.48
1:ID:172:SER:HB3	1:ID:205:GLU:OE2	2.14	0.48
1:IF:53:GLU:OE2	47:3D:38:TYR:HA	2.14	0.48
1:IJ:371:ASN:OD1	1:IJ:372:THR:N	2.47	0.48
2:IK:21:TRP:CZ2	2:IK:65:CYS:HB3	2.48	0.48
1:IL:324:LYS:HB2	2:IM:222:PRO:O	2.14	0.48
2:JB:257:THR:HG1	1:JC:397:TRP:CD1	2.32	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JE:324:LYS:HZ3	2:JF:222:PRO:CD	2.27	0.48
2:JH:134:GLY:HA2	2:JH:164:LYS:HG3	1.95	0.48
1:JM:11:GLN:HA	1:JM:72:THR:HG21	1.96	0.48
1:JM:314:SER:OG	1:JM:368:ILE:HB	2.14	0.48
2:KJ:1:MET:N	2:KJ:3:GLU:OE2	2.35	0.48
1:KK:83:GLN:NE2	49:3Q:203:ARG:HH21	2.12	0.48
1:KK:175:VAL:O	1:KK:175:VAL:HG12	2.14	0.48
2:KL:7:ILE:HD13	2:KL:153:LEU:HD21	1.96	0.48
2:KL:215:ARG:HH21	2:KL:300:GLY:HA2	1.79	0.48
1:KM:20:PHE:HA	1:KM:230:ALA:HB1	1.96	0.48
2:L:68:LEU:HD13	2:L:93:VAL:HG23	1.96	0.48
2:L:295:VAL:CG1	2:L:377:MET:HB2	2.44	0.48
2:LB:3:GLU:HG3	2:LB:129:CYS:HB2	1.96	0.48
2:LB:21:TRP:CZ2	2:LB:65:CYS:HB3	2.49	0.48
2:LB:47:ASP:HA	2:LB:49:PHE:CE1	2.49	0.48
1:LC:8:GLN:HG2	1:LC:17:GLY:HA3	1.95	0.48
1:LE:304:ASP:OD2	1:LE:306:ARG:HB2	2.14	0.48
2:LF:64:ARG:NH1	2:LF:129:CYS:SG	2.87	0.48
2:LF:158:SER:HB2	33:2G:214:ARG:HD2	1.95	0.48
2:LF:437:ALA:HB2	48:3G:55:LEU:HD13	1.95	0.48
2:LH:273:ALA:HB3	2:LH:295:VAL:HG23	1.95	0.48
2:LJ:2:ARG:NH1	24:1J:36:GLN:HG2	2.29	0.48
1:LK:139:LEU:HG	1:LK:168:SER:HB2	1.96	0.48
1:LK:362:LYS:HG3	23:1E:88:TYR:CD2	2.48	0.48
2:MA:396:ASP:OD2	2:MA:422:ARG:NE	2.39	0.48
1:MB:313:ALA:HB1	1:MB:367:PHE:CE1	2.48	0.48
2:MC:230:LEU:HD23	2:MC:368:LEU:HD21	1.94	0.48
1:MD:295:ASP:OD1	1:MD:296:ALA:N	2.46	0.48
1:MD:299:MET:HE1	1:MD:367:PHE:CE2	2.49	0.48
1:MF:99:ASN:ND2	69:MF:500:GDP:O2A	2.47	0.48
1:MF:339:SER:HB2	13:0Z:72:PRO:HB2	1.96	0.48
2:MI:240:ALA:O	2:MI:356:ASN:ND2	2.47	0.48
1:MJ:323:THR:HG21	2:MK:224:TYR:CE1	2.49	0.48
2:MK:70:LEU:HB3	2:MK:98:ASP:HA	1.96	0.48
1:ML:358:PRO:HG2	1:ML:361:LEU:HD12	1.95	0.48
1:ML:405:GLU:O	1:ML:409:THR:HG23	2.13	0.48
2:MM:254:GLU:OE1	1:MN:99:ASN:HB2	2.14	0.48
1:MN:139:LEU:HG	1:MN:168:SER:HB2	1.95	0.48
2:NC:200:VAL:HG23	2:NC:256:GLN:HG2	1.96	0.48
1:NF:322:SER:HB3	1:NF:325:GLU:CD	2.39	0.48
2:NG:324:VAL:HG13	2:NG:327:ASP:H	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NK:257:THR:HG21	1:NL:99:ASN:HB2	1.96	0.48
2:NK:271:SER:OG	2:NK:295:VAL:HG13	2.13	0.48
2:NK:395:PHE:CD1	2:NK:422:ARG:HD3	2.49	0.48
1:NL:61:PRO:HD3	1:NL:84:LEU:HG	1.96	0.48
1:NL:215:LEU:HD21	1:NL:273:LEU:HD22	1.96	0.48
1:OB:41:ASP:OD2	31:1q:239:LYS:HE2	2.14	0.48
2:OE:241:SER:OG	2:OE:250:VAL:O	2.30	0.48
1:OF:109:GLY:HA2	1:OF:147:MET:HE2	1.96	0.48
2:OI:295:VAL:HG21	2:OI:375:VAL:HG13	1.95	0.48
1:PB:12:CYS:SG	1:PB:169:VAL:HG11	2.54	0.48
1:PB:65:LEU:HB3	1:PB:73:MET:HE1	1.95	0.48
1:PB:125:GLU:HB3	59:4a:141:VAL:O	2.13	0.48
1:PD:46:ARG:NH2	2:PE:76:ASP:OD2	2.33	0.48
2:PE:173:PRO:HG3	2:PE:183:GLU:HG2	1.95	0.48
1:PF:232:VAL:HG21	1:PF:300:MET:SD	2.54	0.48
2:PG:88:ASN:OD1	2:PG:89:PRO:HD2	2.13	0.48
1:PJ:268:MET:HE1	1:PJ:368:ILE:CD1	2.39	0.48
2:PK:212:LEU:HD23	2:PK:230:LEU:HD21	1.96	0.48
1:PL:58:ARG:NH2	1:PL:83:GLN:O	2.35	0.48
1:QA:183:TYR:CD1	1:QA:385:PHE:HE1	2.32	0.48
1:QA:206:ALA:O	1:QA:210:ILE:HG12	2.14	0.48
1:QC:292:GLN:HG2	1:QC:298:ASN:HD22	1.79	0.48
1:QG:257:LEU:HB3	1:QG:266:PHE:HE2	1.77	0.48
2:QJ:84:ARG:HB2	22:0z:253:GLN:HG3	1.95	0.48
1:QK:14:ASN:HD21	1:QK:73:MET:HA	1.79	0.48
2:R:321:GLY:HA3	2:R:372:GLN:O	2.14	0.48
1:RA:203:ASP:OD2	1:RA:301:GLN:NE2	2.46	0.48
2:RB:251:ASP:H	2:RB:254:GLU:HB2	1.79	0.48
2:RF:29:GLY:HA3	28:1Y:54:ARG:HD2	1.96	0.48
1:RG:113:ILE:O	1:RG:117:LEU:HD23	2.14	0.48
1:RI:152:ILE:HG22	1:RI:195:ASN:HB3	1.95	0.48
2:SE:147:SER:HB2	2:SE:190:SER:HB3	1.96	0.48
1:SF:130:LEU:O	1:SF:162:ARG:NH1	2.47	0.48
1:SF:144:GLY:N	69:SF:500:GDP:O2B	2.46	0.48
2:SG:270:THR:HG23	2:SG:302:LEU:HB2	1.94	0.48
1:SH:152:ILE:HG23	1:SH:164:MET:SD	2.54	0.48
1:SH:328:GLU:OE2	1:SH:332:ASN:ND2	2.46	0.48
2:TA:1:MET:N	2:TA:3:GLU:OE2	2.43	0.48
1:TD:152:ILE:HG22	1:TD:195:ASN:HB3	1.94	0.48
2:TG:56:THR:O	8:0J:408:GLN:NE2	2.46	0.48
2:TI:155:GLU:HA	2:TI:197:HIS:ND1	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:TI:384:ILE:O	2:TI:387:VAL:HG22	2.14	0.48
2:TK:326:LYS:NZ	1:TL:219:THR:HA	2.29	0.48
2:TK:329:ASN:HD21	1:TL:175:VAL:HG13	1.78	0.48
1:U:293:MET:HE2	1:U:367:PHE:HD1	1.78	0.48
1:UD:375:GLN:NE2	1:UD:423:GLN:OE1	2.47	0.48
1:UF:418:LEU:O	1:UF:421:GLU:HG2	2.14	0.48
2:UG:213:THR:HA	2:UG:217:LEU:HB2	1.95	0.48
1:UH:290:THR:HA	1:UH:293:MET:HG2	1.96	0.48
1:V:135:LEU:HG	1:V:137:HIS:HD2	1.78	0.48
1:VB:175:VAL:HG21	1:VB:205:GLU:HB2	1.96	0.48
1:VB:342:ILE:HG13	1:VB:345:ILE:HG22	1.96	0.48
2:VC:291:ILE:HD13	2:VC:373:ARG:HG3	1.95	0.48
2:VE:21:TRP:CZ3	2:VE:52:PHE:HB3	2.48	0.48
2:VM:250:VAL:HG11	2:VM:318:MET:HE1	1.96	0.48
1:WB:139:LEU:HG	1:WB:168:SER:OG	2.13	0.48
1:WF:244:GLY:HA3	1:WF:354:CYS:HA	1.95	0.48
1:WF:309:ARG:NH2	1:WF:343:GLU:OE2	2.47	0.48
2:WG:237:SER:HA	2:WG:320:ARG:HD2	1.95	0.48
1:WJ:324:LYS:HD3	2:WK:222:PRO:O	2.14	0.48
3:XF:54:VAL:O	3:XF:157:HIS:ND1	2.40	0.48
5:XN:226:LYS:O	5:XN:230:VAL:HG23	2.14	0.48
4:XO:26:ALA:HB1	4:XO:170:GLU:CD	2.39	0.48
5:XP:6:THR:HB	5:XP:9:GLN:HB3	1.96	0.48
4:XQ:121:THR:HG22	4:XQ:167:ARG:CZ	2.44	0.48
8:0I:284:LYS:NZ	8:0I:285:GLU:OE2	2.47	0.48
9:0M:304:SER:OG	9:0M:304:SER:O	2.31	0.48
9:0O:88:ALA:N	9:0O:107:HIS:O	2.39	0.48
12:0W:129:VAL:HG11	12:0W:189:LEU:HD21	1.96	0.48
14:0c:67:LYS:N	14:0c:67:LYS:HD3	2.28	0.48
14:0d:228:GLN:NE2	33:2I:171:LEU:H	2.11	0.48
15:0f:270:ILE:HD11	35:2N:208:ARG:HD3	1.95	0.48
16:0k:294:LYS:HZ1	16:0k:346:PRO:C	2.21	0.48
17:0n:218:ARG:NH2	17:0n:221:LYS:HD2	2.27	0.48
19:0r:112:PRO:O	19:0r:116:MET:HG2	2.13	0.48
23:1A:122:GLN:O	23:1A:126:LYS:NZ	2.46	0.48
25:1O:434:ARG:HE	25:1O:442:GLY:HA2	1.79	0.48
27:1S:391:ASP:OD1	27:1S:392:CYS:N	2.47	0.48
27:1T:828:THR:O	27:1T:828:THR:HG22	2.13	0.48
29:1l:37:LEU:O	49:3Q:410:GLN:NE2	2.47	0.48
29:1l:59:ASP:N	29:1l:59:ASP:OD1	2.47	0.48
29:1m:224:ARG:HG3	29:1m:225:TYR:CE2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2C:8:LEU:HD23	32:2C:18:ARG:HA	1.95	0.48
41:2h:408:LYS:HG3	41:2h:409:GLU:OE1	2.13	0.48
44:2v:263:MET:O	44:2v:267:ILE:HG12	2.14	0.48
44:2v:308:ARG:HH21	44:2v:392:ASP:HA	1.78	0.48
44:2w:343:VAL:O	44:2w:348:ALA:N	2.47	0.48
47:3D:228:LEU:HD11	47:3D:244:LEU:HD12	1.95	0.48
47:3D:268:ASP:OD1	47:3D:269:CYS:N	2.47	0.48
49:3P:438:VAL:HG11	49:3P:445:ARG:HA	1.96	0.48
49:3Q:129:CYS:SG	49:3Q:152:ARG:HG3	2.54	0.48
64:5C:239:ALA:HA	64:5C:242:HIS:HE1	1.78	0.48
66:5L:118:LEU:HD13	66:5L:276:PRO:HG3	1.96	0.48
67:5P:61:LYS:HE2	67:5P:84:LEU:HD23	1.96	0.48
2:AA:265:ILE:HG22	2:AA:380:ASN:HD21	1.78	0.47
2:AA:273:ALA:HB3	2:AA:295:VAL:HG23	1.96	0.47
2:AC:205:ASP:N	2:AC:205:ASP:OD1	2.45	0.47
2:AC:205:ASP:OD1	2:AC:303:THR:HA	2.13	0.47
2:AC:212:LEU:HD21	2:AC:275:VAL:HG11	1.94	0.47
1:AD:152:ILE:O	1:AD:156:ARG:HG2	2.14	0.47
1:AD:323:THR:HA	1:AD:326:VAL:CG1	2.38	0.47
2:AE:41:CYS:SG	26:1Q:88:ARG:HD3	2.54	0.47
2:AE:62:VAL:HG21	2:BE:283:HIS:O	2.14	0.47
2:AI:142:GLY:HA3	2:AI:183:GLU:HG3	1.96	0.47
2:AK:326:LYS:HZ1	1:AL:220:PRO:CD	2.27	0.47
1:AL:11:GLN:HE21	1:AL:15:GLN:HE21	1.62	0.47
1:B:175:VAL:O	1:B:175:VAL:HG12	2.14	0.47
2:BA:84:ARG:HG3	2:BA:85:GLN:OE1	2.14	0.47
2:BG:322:ASP:OD1	2:BG:373:ARG:NE	2.46	0.47
1:BH:268:MET:HA	1:BH:367:PHE:O	2.14	0.47
2:C:40:LYS:HD2	24:1H:256:ARG:HD3	1.96	0.47
2:CB:221:ARG:HG2	16:0k:667:ASP:OD2	2.13	0.47
2:CB:237:SER:HA	2:CB:320:ARG:HD2	1.96	0.47
1:CC:375:GLN:HB2	1:CC:419:VAL:HG23	1.94	0.47
2:CH:297:GLU:HG3	2:CH:299:ALA:H	1.79	0.47
1:CI:121:ARG:NH1	1:CI:158:GLU:OE1	2.43	0.47
1:CI:178:THR:HG22	1:CI:180:VAL:H	1.79	0.47
2:CL:209:ILE:HG21	2:CL:227:VAL:HG22	1.96	0.47
2:CL:247:ALA:HB1	1:CM:222:PHE:HD2	1.79	0.47
2:CL:301:MET:HE1	2:CL:307:PRO:HG2	1.96	0.47
1:DE:150:LEU:O	1:DE:154:LYS:HG2	2.13	0.47
1:DE:208:TYR:CE1	1:DE:225:LEU:HD11	2.49	0.47
1:DI:253:LEU:HD21	1:DI:316:LEU:HD11	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DJ:169:TYR:HB3	2:DJ:204:LEU:HD11	1.96	0.47
1:DK:251:ARG:NH2	2:DL:97:GLU:OE2	2.37	0.47
1:DM:21:TRP:CZ3	1:DM:61:PRO:HB3	2.48	0.47
1:DM:342:ILE:HG22	1:DM:344:TRP:N	2.29	0.47
1:E:408:PHE:O	1:E:411:ALA:N	2.46	0.47
2:EC:388:PHE:HA	2:EC:391:ILE:HG22	1.96	0.47
1:ED:325:GLU:CD	2:EE:221:ARG:HG3	2.39	0.47
2:EE:209:ILE:HD13	2:EE:302:LEU:HD22	1.95	0.47
2:EG:173:PRO:HB2	2:EG:391:ILE:HD11	1.94	0.47
2:EG:351:PHE:C	2:EG:352:LYS:HD2	2.39	0.47
2:EI:199:ASP:HB3	2:EI:256:GLN:OE1	2.13	0.47
2:EK:11:GLN:HG3	2:EK:74:VAL:HG11	1.96	0.47
1:F:244:GLY:HA3	1:F:354:CYS:HA	1.96	0.47
1:FB:2:ARG:HH22	2:FC:73:THR:HG23	1.78	0.47
2:FC:93:VAL:HG12	2:FC:114:ILE:HD11	1.95	0.47
1:FD:167:PHE:CE1	1:FD:200:MET:HB2	2.49	0.47
2:FE:57:GLY:HA3	10:0R:147:VAL:HG11	1.96	0.47
1:FJ:257:LEU:HD23	1:FJ:312:THR:HG22	1.95	0.47
2:GA:220:GLU:O	2:GA:221:ARG:HD3	2.14	0.47
2:GA:396:ASP:OD2	2:GA:422:ARG:NH1	2.47	0.47
1:GB:101:TRP:HH2	1:GB:149:THR:HG21	1.78	0.47
2:GE:8:HIS:HD2	2:GE:67:PHE:CE1	2.32	0.47
2:GG:261:PRO:HA	1:GH:394:PHE:HD1	1.79	0.47
2:GG:291:ILE:O	2:GG:295:VAL:HG23	2.14	0.47
2:GI:251:ASP:H	2:GI:254:GLU:HG3	1.78	0.47
1:GJ:97:ALA:HB2	1:GJ:143:THR:HB	1.95	0.47
1:GJ:154:LYS:HA	1:GJ:157:GLU:HG2	1.95	0.47
1:H:344:TRP:H	1:H:344:TRP:CD1	2.32	0.47
2:HA:54:SER:HB3	2:HA:64:ARG:HH21	1.79	0.47
2:HC:177:VAL:HG22	2:HC:207:GLU:HG3	1.95	0.47
2:HE:270:THR:HG23	2:HE:302:LEU:HD12	1.96	0.47
1:HF:282:ARG:HH12	1:HF:292:GLN:HG3	1.79	0.47
2:HG:91:GLN:H	2:HG:121:ARG:HH11	1.61	0.47
2:HI:178:SER:OG	2:HI:183:GLU:OE1	2.31	0.47
2:HK:239:THR:HG23	2:HK:243:ARG:HH11	1.78	0.47
2:HM:381:SER:O	2:HM:384:ILE:HG22	2.14	0.47
1:I:180:VAL:HG12	1:I:180:VAL:O	2.14	0.47
1:ID:68:LEU:HD12	1:ID:97:ALA:HB2	1.95	0.47
1:ID:252:LYS:HE3	1:ID:252:LYS:HA	1.95	0.47
1:ID:346:PRO:O	2:IE:394:LYS:NZ	2.47	0.47
2:IG:186:ASN:OD1	2:IG:408:TYR:OH	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IK:22:GLU:O	2:IK:26:LEU:HD23	2.14	0.47
2:IM:18:ASN:HD21	2:IM:78:VAL:HG22	1.78	0.47
2:IM:138:PHE:HE2	2:IM:235:VAL:HG21	1.79	0.47
2:IM:357:TYR:HD2	38:2V:172:LYS:HZ1	1.61	0.47
2:J:288:VAL:CG2	2:J:327:ASP:HB3	2.44	0.47
2:J:312:TYR:HA	2:J:381:SER:HB2	1.94	0.47
2:JD:209:ILE:HD13	2:JD:302:LEU:HD22	1.95	0.47
1:JE:255:VAL:HG23	2:JF:407:TRP:CG	2.49	0.47
1:JE:301:GLN:NE2	1:JE:377:MET:HG3	2.29	0.47
1:JG:222:PHE:HD1	1:JG:225:LEU:HD12	1.79	0.47
2:JH:191:THR:O	2:JH:195:LEU:HD23	2.14	0.47
1:JI:77:ARG:HG3	1:JI:77:ARG:HH11	1.79	0.47
1:JI:167:PHE:CE1	1:JI:233:MET:HG2	2.49	0.47
1:JI:282:ARG:HH12	1:JI:292:GLN:HE22	1.62	0.47
2:JL:268:VAL:HG13	2:JL:379:ALA:C	2.39	0.47
1:JM:3:GLU:H	1:JM:131:GLN:H	1.62	0.47
1:JM:3:GLU:O	1:JM:131:GLN:N	2.47	0.47
1:JM:372:THR:HB	1:JM:426:GLN:HB2	1.96	0.47
2:JN:1:MET:HA	2:JN:131:GLY:HA3	1.96	0.47
2:JN:65:CYS:O	2:JN:91:GLN:HB3	2.14	0.47
1:KA:70:PRO:HB3	1:KA:92:PHE:CD2	2.49	0.47
1:KC:49:VAL:HG11	1:KC:241:ARG:HG2	1.96	0.47
2:KD:167:LEU:HD13	2:KD:200:VAL:HB	1.96	0.47
2:KD:274:PRO:HD3	2:KD:374:ALA:HA	1.96	0.47
2:KD:291:ILE:O	2:KD:295:VAL:HG23	2.14	0.47
1:LA:190:HIS:CE1	1:LA:191:GLN:HG2	2.49	0.47
1:LA:293:MET:HG2	1:LA:367:PHE:HB2	1.96	0.47
1:LA:333:VAL:HA	1:LA:336:LYS:HG2	1.96	0.47
2:LB:223:SER:OG	2:LB:224:TYR:N	2.47	0.47
1:LC:295:ASP:OD1	1:LC:296:ALA:N	2.47	0.47
1:LE:236:VAL:HA	1:LE:316:LEU:HD13	1.96	0.47
2:LF:75:VAL:HG21	2:LF:94:SER:HB2	1.95	0.47
2:LH:21:TRP:CZ3	2:LH:52:PHE:HB3	2.49	0.47
1:LI:291:GLN:HE21	35:2O:80:ARG:NH1	2.08	0.47
1:LI:404:ASP:OD1	1:LI:405:GLU:N	2.47	0.47
1:LM:320:ARG:NH1	29:1l:188:GLU:OE2	2.46	0.47
1:M:330:MET:HA	1:M:333:VAL:HG12	1.96	0.47
1:MB:286:VAL:O	1:MB:290:THR:HG23	2.13	0.47
2:MM:329:ASN:HD22	1:MN:208:TYR:HD2	1.61	0.47
1:MN:167:PHE:CZ	1:MN:233:MET:HG2	2.49	0.47
1:N:152:ILE:HD13	1:N:164:MET:HE2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:363:MET:HA	1:N:363:MET:HE2	1.96	0.47
1:NB:255:VAL:HG23	2:NC:407:TRP:CG	2.48	0.47
2:NC:90:GLU:HB2	2:NC:121:ARG:NH1	2.29	0.47
1:NH:344:TRP:H	1:NH:344:TRP:CD1	2.32	0.47
2:NK:326:LYS:NZ	1:NL:204:ASN:HB3	2.29	0.47
2:NM:240:ALA:HA	2:NM:243:ARG:HB2	1.96	0.47
1:OB:237:THR:O	1:OB:241:ARG:HG3	2.14	0.47
1:OB:341:PHE:CE2	1:OB:349:ILE:HD11	2.49	0.47
1:OD:382:GLY:O	1:OD:386:THR:HG23	2.14	0.47
2:OI:372:GLN:OE1	28:1h:96:TYR:OH	2.29	0.47
1:OL:61:PRO:HD2	1:OL:85:PHE:HA	1.95	0.47
2:PG:205:ASP:OD1	2:PG:303:THR:HA	2.13	0.47
1:PJ:42:LEU:HD13	1:PJ:356:ILE:HG12	1.95	0.47
1:PL:35:THR:HB	1:PL:37:GLN:HE22	1.79	0.47
2:PM:328:VAL:O	2:PM:332:ILE:HG12	2.14	0.47
2:Q:2:ARG:NH2	1:QA:71:GLY:HA3	2.30	0.47
2:Q:41:CYS:SG	28:1a:235:ASP:HB2	2.54	0.47
2:Q:167:LEU:CD2	2:Q:252:LEU:HD12	2.43	0.47
2:Q:311:LYS:N	2:Q:382:THR:OG1	2.47	0.47
1:QA:97:ALA:HB2	1:QA:143:THR:HB	1.95	0.47
1:QA:209:ASP:HA	1:QA:212:PHE:HD2	1.78	0.47
2:QD:169:TYR:OH	2:QD:238:LEU:HD13	2.13	0.47
1:QI:175:VAL:O	1:QI:175:VAL:HG12	2.14	0.47
2:QJ:295:VAL:HG21	2:QJ:375:VAL:HG13	1.95	0.47
2:RB:31:GLN:HG2	2:RB:37:PRO:HD3	1.96	0.47
1:RE:207:LEU:HB3	1:RE:225:LEU:HG	1.95	0.47
1:RE:345:ILE:HG23	2:RF:398:MET:HE3	1.96	0.47
1:S:113:ILE:HA	1:S:116:VAL:HG22	1.94	0.47
1:SD:156:ARG:HD2	1:SD:195:ASN:HA	1.96	0.47
2:SE:176:GLN:NE2	59:3p:107:PHE:HB3	2.29	0.47
2:SE:251:ASP:H	2:SE:254:GLU:HB2	1.78	0.47
1:SF:41:ASP:OD2	61:3w:287:ARG:NH1	2.48	0.47
2:SK:204:LEU:HD22	2:SK:231:ILE:HD12	1.95	0.47
1:T:65:LEU:HB3	1:T:73:MET:HE1	1.95	0.47
2:TC:155:GLU:HA	2:TC:197:HIS:ND1	2.29	0.47
1:TD:232:VAL:O	1:TD:236:VAL:HG23	2.13	0.47
1:TD:347:ASN:ND2	2:TE:178:SER:O	2.43	0.47
2:TE:387:VAL:O	2:TE:391:ILE:HG12	2.14	0.47
1:TF:91:ILE:HD11	1:TF:119:VAL:HG21	1.96	0.47
2:TG:209:ILE:HG12	2:TG:302:LEU:HD22	1.95	0.47
2:TI:60:LYS:HE2	2:UI:283:HIS:CD2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:TI:122:ILE:HG21	2:TI:157:LEU:HD21	1.96	0.47
1:UB:175:VAL:HG12	1:UB:175:VAL:O	2.14	0.47
2:UE:173:PRO:HG3	2:UE:183:GLU:HG2	1.96	0.47
2:UE:174:SER:HB3	2:UE:207:GLU:HG3	1.95	0.47
1:UF:257:LEU:HD23	1:UF:312:THR:HG23	1.96	0.47
1:UH:167:PHE:CE1	1:UH:200:MET:HG2	2.48	0.47
1:UH:289:LEU:O	1:UH:293:MET:HG2	2.13	0.47
1:UJ:7:CYS:SG	1:UJ:66:MET:HE3	2.54	0.47
1:UL:22:GLU:HG2	1:UL:81:TYR:CE2	2.49	0.47
2:VA:33:ASP:OD2	2:VA:34:GLY:N	2.47	0.47
2:VA:269:LEU:HD21	2:VA:305:CYS:SG	2.54	0.47
2:VC:98:ASP:OD1	2:VC:99:ALA:N	2.47	0.47
1:VH:139:LEU:HG	1:VH:168:SER:HB2	1.96	0.47
2:VI:53:PHE:HB3	2:VI:61:HIS:HB3	1.96	0.47
1:VL:45:GLU:OE1	1:VL:46:ARG:HG2	2.14	0.47
1:VL:87:PRO:HD3	1:WL:281:TYR:CD2	2.49	0.47
2:WA:47:ASP:OD1	2:WA:47:ASP:N	2.47	0.47
2:WA:227:VAL:O	2:WA:231:ILE:HG12	2.14	0.47
1:WB:34:GLY:HA3	1:WB:58:ARG:HG3	1.96	0.47
1:WB:226:ASN:HA	1:WB:229:VAL:HG22	1.96	0.47
2:WC:127:ASP:OD2	5:XN:136:TYR:OH	2.22	0.47
2:WE:319:TYR:HB3	2:WE:323:VAL:HG21	1.95	0.47
1:WF:200:MET:HE3	1:WF:200:MET:HB3	1.80	0.47
1:WF:209:ASP:OD1	1:WF:213:ARG:NH2	2.46	0.47
1:WF:210:ILE:O	1:WF:214:THR:HB	2.14	0.47
2:WG:84:ARG:HH21	5:XP:40:LYS:NZ	2.12	0.47
2:WI:156:ARG:HA	2:WI:159:VAL:HG12	1.96	0.47
1:WJ:166:THR:HG21	1:WJ:192:LEU:HD22	1.96	0.47
3:XC:156:VAL:HG11	3:XC:162:ILE:HD11	1.96	0.47
3:XF:109:GLN:HB3	3:XF:122:PRO:HA	1.95	0.47
4:XM:185:LEU:HD13	4:XM:225:LEU:HB2	1.96	0.47
6:0A:101:THR:HG21	6:0A:108:ASN:HD21	1.79	0.47
7:0D:359:PRO:O	7:0D:363:ILE:HG12	2.14	0.47
10:0R:72:ARG:NH2	11:0U:248:SER:HB3	2.30	0.47
12:0W:288:VAL:O	12:0W:292:ARG:HG2	2.14	0.47
16:0l:928:GLU:HG2	16:0l:961:VAL:HG13	1.95	0.47
17:0n:384:LYS:HB2	17:0n:384:LYS:HE3	1.65	0.47
17:0n:401:ARG:HG2	17:0n:401:ARG:HH11	1.79	0.47
24:1H:351:LEU:O	24:1H:354:ARG:HG2	2.14	0.47
24:1H:535:MET:HA	24:1H:538:MET:HE3	1.96	0.47
24:1H:695:LYS:HD2	24:1H:712:MET:HE1	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:1Y:172:ASP:N	28:1Y:172:ASP:OD1	2.47	0.47
29:1l:36:PHE:CD2	49:3Q:413:ILE:HG13	2.48	0.47
22:1x:260:ARG:CZ	41:2h:194:ARG:O	2.60	0.47
36:2Q:17:MET:HE1	36:2Q:30:VAL:HA	1.95	0.47
36:2Q:207:ASP:OD1	36:2Q:208:TYR:N	2.46	0.47
41:2h:387:ALA:O	41:2h:391:GLU:HG2	2.14	0.47
41:2k:181:GLU:OE1	41:2k:184:ARG:NH2	2.47	0.47
42:2r:220:VAL:HG21	42:2r:256:HIS:NE2	2.28	0.47
44:2v:336:PHE:CD2	44:2v:338:ALA:HB2	2.49	0.47
44:2w:354:LYS:HD2	44:2w:357:LYS:HD2	1.96	0.47
53:3X:22:MET:HE1	53:3X:27:ALA:HB2	1.96	0.47
28:4W:43:TYR:CD1	28:4W:47:TYR:HD2	2.32	0.47
1:A:190:HIS:HB2	1:A:414:ASN:HD22	1.79	0.47
2:AE:211:ASP:O	2:AE:215:ARG:HD3	2.14	0.47
2:AI:43:GLY:O	24:1I:123:TYR:OH	2.24	0.47
2:AI:431:ASP:OD1	2:AI:432:TYR:N	2.47	0.47
1:AJ:68:LEU:HD21	1:AJ:147:MET:HE1	1.95	0.47
1:AN:222:PHE:O	1:AN:226:ASN:ND2	2.47	0.47
1:B:286:VAL:HG21	1:B:325:GLU:HB3	1.95	0.47
2:BA:326:LYS:NZ	1:BB:208:TYR:O	2.47	0.47
1:BB:255:VAL:HG11	2:BC:100:ALA:O	2.13	0.47
2:BC:188:VAL:HG12	2:BC:421:ALA:HB1	1.96	0.47
2:BE:89:PRO:HB2	2:CD:280:LYS:NZ	2.29	0.47
1:BH:178:THR:HB	1:BH:181:GLU:HG2	1.96	0.47
1:BH:322:SER:HB3	2:BI:223:SER:HB2	1.95	0.47
1:CA:182:PRO:HG3	1:CA:384:GLN:HG3	1.96	0.47
2:CB:365:GLY:HA3	16:0k:686:VAL:HG21	1.96	0.47
1:CI:208:TYR:CE2	1:CI:225:LEU:HD22	2.50	0.47
2:CJ:253:THR:HA	2:CJ:256:GLN:HB3	1.96	0.47
2:CJ:328:VAL:O	2:CJ:332:ILE:HG12	2.14	0.47
1:CK:15:GLN:O	1:CK:226:ASN:ND2	2.47	0.47
1:CK:237:THR:HG22	1:CK:250:LEU:HD21	1.95	0.47
1:CM:101:TRP:HE3	1:CM:403:MET:HE1	1.79	0.47
1:CM:322:SER:OG	1:CM:324:LYS:HG2	2.13	0.47
1:CM:330:MET:HA	1:CM:333:VAL:HG12	1.96	0.47
1:DC:255:VAL:HG11	2:DD:100:ALA:O	2.14	0.47
1:DC:268:MET:HB2	1:DC:300:MET:HG2	1.96	0.47
1:DC:350:LYS:NZ	2:DD:101:ASN:HD21	2.12	0.47
1:DE:67:ASP:OD1	1:DE:69:GLU:N	2.47	0.47
2:DF:326:LYS:HD3	1:DG:220:PRO:HD2	1.96	0.47
1:DG:294:PHE:CE2	1:DG:333:VAL:HG11	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DJ:209:ILE:HG21	2:DJ:227:VAL:HG13	1.96	0.47
1:EB:42:LEU:HD11	26:1Q:543:SER:OG	2.14	0.47
1:EF:347:ASN:HD22	2:EG:178:SER:HG	1.52	0.47
1:EJ:2:ARG:HH21	1:EJ:240:LEU:HD23	1.79	0.47
1:EJ:36:TYR:OH	1:EJ:40:SER:O	2.33	0.47
1:EJ:164:MET:N	1:EJ:197:ASP:OD2	2.46	0.47
2:EK:155:GLU:HG2	2:EK:197:HIS:CE1	2.48	0.47
1:EL:309:ARG:NH2	1:EL:342:ILE:HG23	2.28	0.47
2:FA:59:GLY:HA3	10:0R:256:ARG:HH12	1.77	0.47
1:FD:242:PHE:HB2	1:FD:354:CYS:SG	2.54	0.47
1:FF:350:LYS:HE2	1:FF:350:LYS:HA	1.96	0.47
2:FG:90:GLU:O	2:FG:91:GLN:HG2	2.14	0.47
2:FI:346:TRP:CD1	1:FJ:391:ARG:HG3	2.49	0.47
1:FJ:148:GLY:O	1:FJ:152:ILE:HG12	2.13	0.47
2:FK:175:PRO:HD2	2:FK:207:GLU:OE1	2.14	0.47
1:FL:132:GLY:HA3	1:FL:163:ILE:O	2.14	0.47
1:G:312:THR:HG21	2:GA:404:PHE:CZ	2.46	0.47
1:G:313:ALA:O	1:G:350:LYS:NZ	2.33	0.47
1:GB:11:GLN:HE22	69:GB:500:GDP:H8	1.62	0.47
1:GD:279:GLN:NE2	10:0R:179:ASN:OD1	2.30	0.47
1:GF:187:LEU:HD11	1:GF:408:PHE:CZ	2.49	0.47
2:GG:68:LEU:HD21	2:GG:149:LEU:HD21	1.94	0.47
2:GI:332:ILE:O	2:GI:336:LYS:HG2	2.13	0.47
1:GL:399:THR:HA	1:GL:403:MET:HB3	1.97	0.47
1:H:195:ASN:OD1	1:H:196:SER:N	2.48	0.47
1:HB:322:SER:O	1:HB:326:VAL:HG23	2.13	0.47
1:HD:237:THR:O	1:HD:241:ARG:HG3	2.14	0.47
2:HE:240:ALA:HA	2:HE:243:ARG:HG3	1.96	0.47
1:HJ:156:ARG:HB2	1:HJ:164:MET:HE1	1.96	0.47
1:HJ:255:VAL:HG21	2:HK:100:ALA:O	2.14	0.47
2:HK:367:ASP:OD1	2:HK:367:ASP:N	2.47	0.47
1:HL:183:TYR:HE1	1:HL:388:MET:HE3	1.79	0.47
1:I:139:LEU:HG	1:I:168:SER:HB3	1.95	0.47
2:IA:85:GLN:O	1:JA:281:TYR:OH	2.23	0.47
2:IA:202:THR:HG23	2:IA:270:THR:HG21	1.96	0.47
2:IA:204:LEU:HD13	2:IA:231:ILE:HD13	1.95	0.47
2:IC:189:LEU:HD13	2:IC:413:MET:HE1	1.96	0.47
1:IF:326:VAL:HG11	1:IF:353:ILE:HD11	1.95	0.47
2:IG:220:GLU:OE1	7:0D:122:LYS:NZ	2.44	0.47
1:IH:308:GLY:HA2	1:IH:426:GLN:HE21	1.79	0.47
1:IH:326:VAL:O	1:IH:330:MET:HG2	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IM:422:ARG:NH1	2:IM:422:ARG:O	2.46	0.47
2:JB:17:GLY:HA2	2:JB:20:CYS:SG	2.54	0.47
2:JB:352:LYS:HD2	1:JC:177:ASP:O	2.14	0.47
1:JC:249:ASP:H	1:JC:252:LYS:CB	2.27	0.47
2:JD:335:ILE:HG23	2:JD:341:ILE:HD11	1.95	0.47
1:JE:186:THR:HG22	1:JE:411:ALA:HB1	1.95	0.47
2:JJ:194:LEU:O	2:JJ:266:HIS:NE2	2.37	0.47
1:JK:182:PRO:HD2	1:JK:388:MET:HE1	1.95	0.47
1:JK:392:LYS:NZ	60:3s:134:ASP:OD2	2.47	0.47
2:JL:336:LYS:HE2	1:JM:174:ARG:HH21	1.78	0.47
1:KA:55:SER:HA	23:1E:382:LYS:NZ	2.29	0.47
2:KB:346:TRP:CD1	1:KC:391:ARG:HG3	2.48	0.47
2:KD:288:VAL:HA	2:KD:291:ILE:HG12	1.95	0.47
1:KE:25:SER:HB3	1:KE:30:VAL:HB	1.95	0.47
1:KI:389:PHE:HZ	1:KI:405:GLU:HG3	1.79	0.47
2:KJ:311:LYS:HG2	2:KJ:342:GLN:HG3	1.95	0.47
2:KN:334:THR:HB	2:KN:338:LYS:NZ	2.29	0.47
1:LA:128:ASP:OD1	29:1j:222:LYS:HG3	2.15	0.47
1:LA:181:GLU:CD	1:LA:182:PRO:HD3	2.38	0.47
2:LB:3:GLU:OE2	2:LB:131:GLY:N	2.48	0.47
2:LB:174:SER:CB	2:LB:207:GLU:HG3	2.43	0.47
2:LF:292:THR:OG1	2:LF:319:TYR:OH	2.30	0.47
1:LG:107:THR:HG22	33:2G:256:HIS:ND1	2.29	0.47
1:LG:148:GLY:O	1:LG:152:ILE:HG12	2.13	0.47
2:LJ:195:LEU:HA	2:LJ:266:HIS:HE1	1.78	0.47
2:LJ:219:ILE:HG23	23:1E:136:ASN:HD21	1.78	0.47
2:LN:250:VAL:HG21	2:LN:352:LYS:HE3	1.95	0.47
1:LO:10:GLY:HA2	1:LO:143:THR:HG23	1.95	0.47
1:LO:390:ARG:HG3	22:1y:151:LEU:HA	1.95	0.47
2:MI:275:VAL:HG23	2:MI:368:LEU:HD11	1.96	0.47
1:ML:312:THR:HG21	2:MM:404:PHE:HZ	1.77	0.47
1:NB:202:ILE:HD11	1:NB:268:MET:HE3	1.96	0.47
1:ND:256:ASN:ND2	2:NE:101:ASN:HD22	2.08	0.47
1:ND:268:MET:HB3	1:ND:300:MET:HE3	1.96	0.47
1:NF:192:LEU:O	1:NF:196:SER:HB3	2.14	0.47
1:NF:330:MET:SD	1:NF:349:ILE:HG21	2.54	0.47
2:OA:311:LYS:HG3	2:OA:342:GLN:HE22	1.79	0.47
2:OG:231:ILE:O	2:OG:235:VAL:HG23	2.14	0.47
2:OI:167:LEU:HG	2:OI:200:VAL:HB	1.97	0.47
1:OL:385:PHE:CZ	1:OL:408:PHE:HD2	2.32	0.47
2:OM:1:MET:HB2	2:OM:2:ARG:HH11	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OM:47:ASP:OD1	2:OM:47:ASP:N	2.43	0.47
2:PA:319:TYR:HB2	2:PA:355:ILE:HD13	1.96	0.47
1:PB:255:VAL:HG11	2:PC:100:ALA:O	2.14	0.47
2:PC:152:LEU:O	2:PC:156:ARG:HG2	2.14	0.47
1:PD:4:ILE:HB	1:PD:50:TYR:HE1	1.79	0.47
1:PD:85:PHE:HB2	1:PD:90:PHE:HE1	1.79	0.47
1:PD:185:THR:O	1:PD:189:VAL:HG23	2.13	0.47
2:PG:296:PHE:HE2	2:PG:335:ILE:HG13	1.77	0.47
1:PH:377:MET:HA	1:PH:380:ARG:HH12	1.79	0.47
1:PJ:68:LEU:HD22	1:PJ:97:ALA:HB2	1.97	0.47
2:PK:175:PRO:HA	2:PK:390:ARG:HH12	1.79	0.47
2:PK:311:LYS:N	2:PK:382:THR:OG1	2.39	0.47
1:PL:183:TYR:HD1	1:PL:385:PHE:CD1	2.32	0.47
2:PM:7:ILE:HG22	2:PM:9:ILE:HD11	1.96	0.47
2:PM:70:LEU:HB3	2:PM:97:GLU:O	2.14	0.47
2:Q:25:CYS:HB3	2:Q:30:ILE:O	2.14	0.47
2:Q:154:LEU:HB3	2:Q:197:HIS:HB2	1.95	0.47
2:Q:262:TYR:CE1	57:3f:69:MET:HE2	2.49	0.47
1:QC:386:THR:HG22	1:QC:412:GLU:OE2	2.14	0.47
2:QD:11:GLN:HG3	2:QD:74:VAL:HG11	1.96	0.47
2:QH:261:PRO:HB2	1:QI:393:ALA:HB1	1.96	0.47
2:QL:434:GLU:CD	57:3i:65:LEU:HB3	2.39	0.47
2:R:317:LEU:HA	2:R:377:MET:HE1	1.95	0.47
2:RB:97:GLU:HG2	2:RB:105:ARG:HH22	1.78	0.47
1:RE:17:GLY:HA2	1:RE:20:PHE:HB3	1.96	0.47
1:RE:54:SER:OG	1:RE:55:SER:N	2.46	0.47
1:RE:101:TRP:HB3	1:RE:398:TYR:HE1	1.80	0.47
1:RG:65:LEU:HD13	1:RG:90:PHE:HE1	1.79	0.47
1:RG:122:LYS:NZ	1:SF:291:GLN:OE1	2.47	0.47
2:RJ:21:TRP:CZ3	2:RJ:52:PHE:HB3	2.49	0.47
2:RJ:60:LYS:HE2	2:SI:282:TYR:HD2	1.79	0.47
2:RJ:253:THR:HA	2:RJ:256:GLN:HB3	1.95	0.47
1:S:344:TRP:HZ3	2:SA:403:ALA:HB2	1.78	0.47
2:SC:47:ASP:N	2:SC:47:ASP:OD1	2.47	0.47
2:SC:323:VAL:HG13	2:SC:355:ILE:HG23	1.96	0.47
1:SD:205:GLU:HB2	1:SD:302:ALA:HB2	1.96	0.47
2:SG:84:ARG:HB2	61:3w:283:ILE:HG21	1.96	0.47
1:SJ:122:LYS:CE	61:3x:82:TYR:CD1	2.89	0.47
1:SJ:198:GLU:HB2	1:SJ:266:PHE:HE2	1.79	0.47
1:SJ:268:MET:HE3	1:SJ:268:MET:HA	1.95	0.47
2:SK:251:ASP:H	2:SK:254:GLU:HB2	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SK:316:CYS:HA	2:SK:352:LYS:O	2.14	0.47
1:T:323:THR:HA	1:T:326:VAL:HG12	1.95	0.47
2:TA:241:SER:OG	2:TA:250:VAL:O	2.24	0.47
2:TA:317:LEU:HG	2:TA:377:MET:HG3	1.96	0.47
1:TF:334:GLN:HE22	1:TF:348:ASN:N	2.12	0.47
1:U:113:ILE:HA	1:U:116:VAL:HG12	1.96	0.47
1:U:113:ILE:HG12	1:U:154:LYS:NZ	2.29	0.47
2:UA:268:VAL:HG23	2:UA:378:ILE:HD11	1.95	0.47
1:UH:139:LEU:HD21	1:UH:192:LEU:HD11	1.95	0.47
1:UH:415:MET:O	1:UH:419:VAL:HG23	2.14	0.47
2:VA:180:ALA:HB3	2:VA:183:GLU:HB2	1.96	0.47
2:VE:98:ASP:OD1	2:VE:99:ALA:N	2.47	0.47
2:VE:150:GLY:O	2:VE:154:LEU:HD23	2.14	0.47
1:VH:226:ASN:OD1	69:VH:500:GDP:N1	2.37	0.47
2:VI:388:PHE:HA	2:VI:391:ILE:HG22	1.95	0.47
1:W:255:VAL:HG23	2:WA:407:TRP:CG	2.49	0.47
2:WA:101:ASN:HA	2:WA:144:GLY:H	1.79	0.47
2:WA:270:THR:HG22	2:WA:378:ILE:HD13	1.95	0.47
2:WC:345:ASP:OD1	2:WC:346:TRP:N	2.47	0.47
2:WK:194:LEU:O	2:WK:198:THR:HG22	2.13	0.47
2:WK:271:SER:OG	2:WK:377:MET:HB3	2.14	0.47
2:WM:105:ARG:NH1	2:WM:110:ILE:HD11	2.28	0.47
2:WM:392:ASP:HB2	2:WM:422:ARG:NH1	2.29	0.47
3:XA:36:ARG:HB2	4:XM:263:MET:HG2	1.96	0.47
9:0M:22:LEU:HD21	9:0M:66:CYS:HA	1.95	0.47
9:0M:490:CYS:HB2	9:0M:504:MET:CG	2.43	0.47
9:0O:72:SER:N	9:0O:120:GLU:OE2	2.35	0.47
10:0R:142:GLU:O	10:0R:146:LYS:HG3	2.13	0.47
11:0U:121:ILE:HG21	11:0U:267:TRP:HZ2	1.79	0.47
12:0W:29:LEU:HB3	12:0W:40:LEU:HG	1.95	0.47
14:0d:221:VAL:HB	14:0d:222:PRO:HD2	1.97	0.47
16:0l:57:LEU:HD23	16:0l:61:GLU:HB3	1.95	0.47
16:0k:426:LYS:HE2	16:0k:428:ILE:HD13	1.95	0.47
16:0k:966:PHE:O	16:0k:970:VAL:HG22	2.14	0.47
24:1I:120:LEU:HD22	24:1I:131:VAL:HG22	1.95	0.47
24:1I:188:ARG:O	24:1I:192:LYS:HG2	2.14	0.47
26:1Q:190:LEU:O	26:1Q:191:GLU:HG3	2.14	0.47
26:1Q:235:THR:O	26:1Q:239:ARG:HG3	2.15	0.47
28:1Y:21:ARG:O	41:2e:351:ARG:NH2	2.46	0.47
31:1q:47:CYS:HB3	31:1q:84:HIS:HB2	1.96	0.47
22:1w:260:ARG:CD	41:2k:193:SER:O	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:2Q:27:LEU:O	36:2Q:31:LYS:HG2	2.14	0.47
40:2Z:150:GLU:OE2	40:2Z:190:GLN:NE2	2.44	0.47
41:2i:434:PRO:HG2	41:2i:437:VAL:HG23	1.96	0.47
44:2v:29:LEU:HB2	44:2v:131:ARG:HG3	1.95	0.47
44:2v:354:LYS:HD3	49:3P:418:SER:HB3	1.95	0.47
60:3s:95:ILE:O	60:3s:99:ARG:HG3	2.14	0.47
65:5H:65:LYS:O	65:5H:69:LEU:HG	2.14	0.47
68:5S:85:LEU:O	68:5S:88:ARG:HG2	2.14	0.47
1:A:183:TYR:CD2	1:A:388:MET:HE3	2.48	0.47
1:A:425:TYR:HE1	2:AA:401:LYS:HD3	1.79	0.47
2:AA:248:LEU:HB2	2:AA:354:GLY:HA2	1.95	0.47
1:AB:2:ARG:NH2	2:AC:71:GLU:OE1	2.48	0.47
1:AD:9:ALA:HA	1:AD:66:MET:HB2	1.95	0.47
2:AE:251:ASP:H	2:AE:254:GLU:HG3	1.78	0.47
1:AH:323:THR:HG21	2:AI:210:TYR:OH	2.15	0.47
1:AH:421:GLU:OE1	1:AH:424:GLN:NE2	2.47	0.47
2:AI:322:ASP:HA	54:3a:122:ALA:HB2	1.96	0.47
1:AL:83:GLN:OE1	24:1J:176:ARG:NH2	2.47	0.47
1:AL:247:ASN:N	2:AM:11:GLN:HE22	2.11	0.47
1:AN:8:GLN:HG2	1:AN:17:GLY:HA3	1.95	0.47
1:AN:239:CYS:HG	1:AN:248:SER:HG	1.53	0.47
2:BA:310:GLY:HA3	2:BA:383:ALA:HB2	1.97	0.47
2:BA:338:LYS:HG2	2:BA:340:THR:HG22	1.96	0.47
1:BB:156:ARG:HD3	1:BB:164:MET:HG3	1.96	0.47
1:BB:166:THR:HG21	1:BB:192:LEU:HD22	1.96	0.47
1:BF:350:LYS:HA	2:BG:179:THR:O	2.15	0.47
2:BG:258:ASN:ND2	1:BH:178:THR:HG23	2.29	0.47
2:BK:270:THR:HG23	2:BK:302:LEU:HB2	1.96	0.47
2:BK:310:GLY:HA3	2:BK:383:ALA:HB2	1.97	0.47
2:C:234:VAL:HG13	2:C:376:CYS:SG	2.54	0.47
2:CB:388:PHE:HA	2:CB:391:ILE:HG22	1.96	0.47
2:CF:247:ALA:O	1:CG:11:GLN:NE2	2.47	0.47
2:CL:2:ARG:NH1	2:CL:2:ARG:HB2	2.29	0.47
1:DA:263:LEU:HD23	1:DA:311:LEU:HD11	1.96	0.47
2:DB:1:MET:N	2:DB:3:GLU:OE2	2.45	0.47
2:DF:205:ASP:OD1	2:DF:303:THR:HA	2.13	0.47
2:DH:26:LEU:HD12	2:DH:363:VAL:HG12	1.96	0.47
1:DI:375:GLN:HB2	1:DI:419:VAL:HG23	1.95	0.47
1:DK:87:PRO:HD3	1:EJ:281:TYR:CD2	2.48	0.47
1:DM:375:GLN:O	1:DM:379:ARG:HG2	2.14	0.47
1:EB:19:LYS:HE3	1:EB:223:GLY:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EG:265:ILE:HG22	2:EG:380:ASN:HD21	1.78	0.47
1:EL:395:LEU:HD21	1:EL:405:GLU:HG2	1.95	0.47
2:FC:247:ALA:O	1:FD:11:GLN:NE2	2.47	0.47
2:FC:304:LYS:HD2	2:FC:304:LYS:HA	1.71	0.47
1:FF:198:GLU:HB2	1:FF:266:PHE:CE2	2.49	0.47
1:FH:7:CYS:HB2	1:FH:135:LEU:HD13	1.96	0.47
1:FJ:28:HIS:HA	1:FJ:43:GLN:HG2	1.95	0.47
2:FK:139:HIS:HE2	2:FK:194:LEU:HD21	1.79	0.47
1:FL:109:GLY:O	1:FL:113:ILE:HB	2.15	0.47
1:FL:270:PHE:O	1:FL:298:ASN:ND2	2.47	0.47
2:GA:199:ASP:HB3	2:GA:256:GLN:NE2	2.30	0.47
2:GA:255:PHE:HD2	2:GA:259:LEU:HD12	1.78	0.47
1:GB:175:VAL:O	1:GB:175:VAL:HG12	2.13	0.47
1:GB:332:ASN:ND2	59:4O:142:ASN:HB2	2.29	0.47
2:GC:322:ASP:OD2	2:GC:373:ARG:NH2	2.46	0.47
1:GF:101:TRP:HB3	1:GF:398:TYR:HE1	1.78	0.47
2:GG:188:VAL:HG12	2:GG:425:LEU:HD12	1.95	0.47
1:GH:5:VAL:HG22	1:GH:62:ARG:HG2	1.95	0.47
1:GH:172:SER:HB3	1:GH:175:VAL:HG22	1.97	0.47
1:GH:232:VAL:HG21	1:GH:300:MET:SD	2.54	0.47
1:GH:278:SER:O	1:GH:278:SER:OG	2.30	0.47
2:GK:32:PRO:HD3	43:2t:390:TYR:HE2	1.79	0.47
1:GL:165:MET:HE2	1:GL:165:MET:HA	1.95	0.47
2:HA:332:ILE:O	2:HA:336:LYS:HG2	2.14	0.47
2:HC:167:LEU:HD11	2:HC:255:PHE:HZ	1.79	0.47
1:HF:134:GLN:HA	1:HF:165:MET:HB2	1.96	0.47
1:HH:155:LEU:HB3	1:HH:164:MET:SD	2.54	0.47
1:HH:318:ARG:HE	1:HH:358:PRO:HD3	1.79	0.47
1:IB:322:SER:OG	2:IC:222:PRO:O	2.22	0.47
2:IC:102:ASN:HB3	2:IC:105:ARG:HB3	1.97	0.47
2:IE:253:THR:HA	2:IE:256:GLN:HB3	1.97	0.47
2:IG:328:VAL:O	2:IG:332:ILE:HG12	2.14	0.47
2:IG:352:LYS:HD2	1:IH:177:ASP:O	2.15	0.47
2:II:169:TYR:HB3	2:II:204:LEU:HD11	1.95	0.47
1:IL:324:LYS:HE3	2:IM:210:TYR:CD1	2.48	0.47
2:IM:3:GLU:HG2	2:IM:132:LEU:HA	1.95	0.47
2:J:147:SER:HB2	2:J:190:SER:HB3	1.97	0.47
2:JB:296:PHE:HD2	2:JB:335:ILE:HG21	1.79	0.47
1:JC:67:ASP:CG	1:JC:73:MET:HE2	2.40	0.47
1:JC:83:GLN:O	1:KC:281:TYR:OH	2.26	0.47
1:JE:326:VAL:O	1:JE:330:MET:HG2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JG:83:GLN:HG3	10:0R:48:HIS:ND1	2.29	0.47
2:JH:89:PRO:HD3	2:KH:283:HIS:ND1	2.28	0.47
2:JH:212:LEU:HD21	2:JH:275:VAL:HG11	1.95	0.47
2:JJ:265:ILE:HG23	2:JJ:432:TYR:CE2	2.50	0.47
1:JK:305:PRO:HA	1:JK:373:CYS:SG	2.54	0.47
2:JL:316:CYS:HA	2:JL:352:LYS:HB2	1.95	0.47
1:JM:58:ARG:HH21	1:JM:84:LEU:HA	1.79	0.47
1:JM:249:ASP:OD1	1:JM:252:LYS:N	2.36	0.47
1:JM:311:LEU:N	1:JM:370:ASN:O	2.48	0.47
2:K:167:LEU:HD23	2:K:200:VAL:HB	1.95	0.47
1:KA:311:LEU:HD23	1:KA:342:ILE:HD11	1.96	0.47
1:KC:334:GLN:HE22	1:KC:348:ASN:N	2.12	0.47
1:KE:67:ASP:HA	1:KE:143:THR:HG21	1.96	0.47
2:KF:89:PRO:HB2	2:LF:280:LYS:NZ	2.29	0.47
1:KK:181:GLU:CD	1:KK:182:PRO:HD3	2.39	0.47
2:KL:18:ASN:OD1	2:KL:19:ALA:N	2.48	0.47
2:KL:270:THR:HG22	2:KL:378:ILE:HD13	1.95	0.47
2:KL:326:LYS:HZ1	1:KM:219:THR:HA	1.79	0.47
1:KM:31:ASP:N	1:KM:31:ASP:OD2	2.47	0.47
1:KM:232:VAL:HG21	1:KM:300:MET:SD	2.54	0.47
2:LB:430:LYS:O	2:LB:434:GLU:HG2	2.14	0.47
1:LC:344:TRP:CZ2	2:LD:401:LYS:HD2	2.49	0.47
2:LD:264:ARG:HD2	13:0Y:120:LYS:HZ3	1.78	0.47
2:LD:274:PRO:HG2	2:LD:371:VAL:HG21	1.96	0.47
2:LD:338:LYS:NZ	35:2N:200:GLN:HB3	2.29	0.47
1:LG:73:MET:HB3	25:1O:47:LEU:HD11	1.95	0.47
1:LI:11:GLN:HA	1:LI:72:THR:HG21	1.96	0.47
1:LI:155:LEU:HB3	1:LI:164:MET:HE1	1.96	0.47
1:LI:309:ARG:H	1:LI:372:THR:HG1	1.58	0.47
2:LJ:279:GLU:HA	2:LJ:282:TYR:HE1	1.80	0.47
2:LN:136:MET:CE	2:LN:239:THR:HG21	2.44	0.47
1:LO:190:HIS:HB2	1:LO:414:ASN:HD22	1.79	0.47
1:M:68:LEU:HD12	1:M:97:ALA:HB2	1.95	0.47
2:MC:142:GLY:CA	2:MC:183:GLU:HG3	2.45	0.47
2:MC:393:HIS:HD1	2:MC:393:HIS:C	2.23	0.47
2:ME:191:THR:O	2:ME:195:LEU:HD23	2.14	0.47
1:MF:50:TYR:HD1	1:MF:241:ARG:HD3	1.78	0.47
1:MF:255:VAL:HG11	2:MG:100:ALA:O	2.14	0.47
1:ML:313:ALA:HB3	1:ML:349:ILE:HG12	1.96	0.47
2:MM:352:LYS:HD2	1:MN:177:ASP:O	2.14	0.47
1:MN:38:GLY:HA3	1:MN:43:GLN:HE21	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:35:THR:CG2	1:N:37:GLN:HE22	2.27	0.47
1:N:133:PHE:HB2	1:N:164:MET:SD	2.54	0.47
2:NG:3:GLU:HA	2:NG:51:THR:HA	1.96	0.47
1:NH:156:ARG:HH22	1:NH:197:ASP:CG	2.21	0.47
1:NH:332:ASN:OD1	1:NH:333:VAL:N	2.48	0.47
2:NI:21:TRP:CZ2	2:NI:65:CYS:HB3	2.48	0.47
1:NL:119:VAL:HA	1:NL:122:LYS:HG2	1.96	0.47
1:NL:290:THR:HA	1:NL:293:MET:HE3	1.96	0.47
1:O:350:LYS:NZ	2:OA:180:ALA:HA	2.27	0.47
2:OA:36:MET:HE2	2:OA:61:HIS:CE1	2.47	0.47
1:OB:282:ARG:HH12	1:OB:292:GLN:CD	2.22	0.47
1:OB:371:ASN:OD1	1:OB:372:THR:N	2.47	0.47
1:OF:376:GLU:HA	1:OF:379:ARG:HG3	1.96	0.47
2:OM:155:GLU:OE2	2:OM:197:HIS:ND1	2.47	0.47
1:P:309:ARG:HD3	1:P:342:ILE:HA	1.97	0.47
1:PD:183:TYR:HE2	1:PD:395:LEU:HD13	1.78	0.47
1:PF:217:LEU:HB2	1:PF:220:PRO:HG3	1.97	0.47
1:PH:147:MET:HB2	1:PH:147:MET:HE3	1.76	0.47
1:PJ:24:ILE:HD12	1:PJ:241:ARG:NH1	2.30	0.47
2:Q:71:GLU:HB2	2:Q:98:ASP:HB3	1.97	0.47
1:QA:347:ASN:O	2:QB:181:VAL:HG12	2.14	0.47
2:QD:377:MET:HE3	2:QD:378:ILE:N	2.29	0.47
2:QF:384:ILE:HD11	2:QF:432:TYR:CE2	2.49	0.47
1:QG:397:TRP:O	1:QG:401:GLU:HG2	2.14	0.47
1:QK:113:ILE:HD11	1:QK:151:LEU:HD13	1.95	0.47
1:QK:256:ASN:CG	2:QL:101:ASN:HD21	2.22	0.47
1:QK:267:MET:HG2	1:QK:301:GLN:NE2	2.28	0.47
2:QL:32:PRO:HB3	2:QL:83:TYR:CD2	2.49	0.47
2:R:141:VAL:HG23	2:R:173:PRO:HD3	1.96	0.47
2:RD:195:LEU:HD21	2:RD:428:LEU:HD22	1.97	0.47
1:RG:21:TRP:CZ3	1:RG:50:TYR:HB3	2.48	0.47
1:RG:259:PRO:HG2	1:RG:263:LEU:HD12	1.96	0.47
2:RH:323:VAL:HG23	2:RH:355:ILE:HG23	1.96	0.47
2:RJ:159:VAL:HG21	57:3h:130:TYR:HD2	1.78	0.47
2:SA:263:PRO:HG2	56:3d:220:LYS:HZ3	1.79	0.47
2:SC:199:ASP:OD1	55:3b:168:LYS:NZ	2.40	0.47
1:SD:148:GLY:O	1:SD:152:ILE:HG13	2.14	0.47
2:SE:102:ASN:HB3	2:SE:105:ARG:HB3	1.96	0.47
1:SF:60:VAL:HG11	1:SF:86:ARG:HG3	1.96	0.47
1:SH:131:GLN:O	1:SH:163:ILE:HG22	2.14	0.47
2:SI:301:MET:SD	2:SI:307:PRO:HD3	2.54	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SK:93:VAL:HG12	2:SK:114:ILE:HD11	1.96	0.47
1:T:345:ILE:HG13	2:TA:398:MET:HE2	1.95	0.47
1:T:392:LYS:HD2	1:T:395:LEU:HD23	1.96	0.47
1:TH:309:ARG:HH22	1:TH:342:ILE:HA	1.77	0.47
2:TI:191:THR:HB	2:TI:425:LEU:HD21	1.97	0.47
1:TJ:341:PHE:CE1	1:TJ:349:ILE:HD11	2.49	0.47
2:TK:8:HIS:HD2	2:TK:138:PHE:HD1	1.62	0.47
2:TK:328:VAL:O	2:TK:332:ILE:HG12	2.14	0.47
1:TL:268:MET:O	1:TL:299:MET:HE3	2.14	0.47
2:UA:316:CYS:HB3	2:UA:378:ILE:CG2	2.45	0.47
1:UF:240:LEU:HD11	1:UF:250:LEU:HD23	1.95	0.47
1:UF:242:PHE:HB2	1:UF:354:CYS:SG	2.54	0.47
2:UG:209:ILE:HG12	2:UG:302:LEU:HD22	1.95	0.47
2:UG:244:PHE:HB2	2:UG:356:ASN:HD21	1.78	0.47
2:UG:311:LYS:N	2:UG:382:THR:OG1	2.34	0.47
2:UK:298:PRO:HG3	2:UK:308:ARG:NH2	2.29	0.47
1:UL:87:PRO:HD3	1:VL:281:TYR:CE2	2.48	0.47
1:UL:113:ILE:HG13	1:UL:117:LEU:HD23	1.95	0.47
1:VB:73:MET:HA	1:VB:76:VAL:HG12	1.94	0.47
1:VB:227:HIS:HD1	1:VB:227:HIS:C	2.22	0.47
2:VC:75:VAL:HG21	2:VC:94:SER:HB2	1.96	0.47
2:VC:157:LEU:O	2:VC:161:TYR:HB2	2.14	0.47
2:VK:326:LYS:HE3	1:VL:220:PRO:HG2	1.96	0.47
1:VL:100:ASN:HB3	1:VL:103:LYS:HB3	1.94	0.47
1:WB:290:THR:HG21	1:WB:329:GLN:O	2.14	0.47
1:WB:332:ASN:OD1	1:WB:333:VAL:N	2.47	0.47
2:WC:116:ASP:OD1	2:WC:117:LEU:N	2.47	0.47
1:WD:372:THR:O	1:WD:375:GLN:HG2	2.14	0.47
1:WF:42:LEU:HD13	1:WF:356:ILE:HD11	1.96	0.47
1:WF:139:LEU:HG	1:WF:168:SER:HB2	1.96	0.47
2:WG:295:VAL:HG21	2:WG:375:VAL:HG13	1.96	0.47
2:WI:177:VAL:HG22	2:WI:207:GLU:OE2	2.15	0.47
6:0A:59:ILE:HD13	6:0A:192:MET:SD	2.53	0.47
8:0F:109:LEU:HD11	9:0L:550:THR:HG21	1.97	0.47
11:0U:327:GLU:OE2	46:3B:242:THR:OG1	2.31	0.47
16:0l:461:LYS:HD2	16:0l:462:TYR:CD1	2.49	0.47
16:0l:602:ALA:HA	16:0l:605:LEU:HB3	1.96	0.47
16:0k:391:ASP:OD1	16:0k:394:ARG:NH1	2.47	0.47
16:0k:544:ARG:NH1	16:0k:578:GLN:OE1	2.47	0.47
18:0p:184:ARG:NH2	18:0p:188:ARG:O	2.47	0.47
21:0x:524:VAL:HA	21:0x:527:ARG:HG2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:1A:56:LYS:HD3	40:2Z:324:ARG:NH1	2.30	0.47
24:1K:116:ARG:NH2	24:1K:133:GLU:OE1	2.45	0.47
28:1h:18:CYS:O	28:1h:19:VAL:HB	2.15	0.47
32:2B:50:ALA:HA	32:2B:53:MET:HG2	1.95	0.47
35:2N:292:TYR:CE2	35:2N:294:LYS:HG3	2.48	0.47
41:2b:137:VAL:HB	41:2c:475:ILE:HG21	1.95	0.47
41:2c:348:MET:HB2	41:2c:352:ARG:HH11	1.80	0.47
45:2y:400:THR:HG23	45:2y:403:GLU:H	1.79	0.47
48:3G:110:GLU:HA	48:3G:113:HIS:HD2	1.79	0.47
49:3Q:203:ARG:NH1	49:3Q:226:ASN:HD22	2.08	0.47
57:3f:58:SER:OG	57:3f:60:ASP:OD1	2.24	0.47
57:3i:24:VAL:HG22	57:3i:28:TYR:HE2	1.79	0.47
57:3i:122:ARG:O	57:3i:125:GLU:HG3	2.14	0.47
60:3r:20:TYR:O	60:3r:24:ILE:HG12	2.15	0.47
66:5L:46:PRO:HG2	66:5L:142:GLN:OE1	2.15	0.47
68:5S:91:CYS:HB2	68:5S:142:CYS:SG	2.53	0.47
2:AA:318:MET:O	2:AA:375:VAL:HA	2.14	0.47
2:AA:383:ALA:O	2:AA:386:GLU:HG2	2.14	0.47
1:AB:163:ILE:HG21	1:AB:250:LEU:HB3	1.96	0.47
2:AG:167:LEU:HD21	2:AG:255:PHE:CZ	2.50	0.47
2:AG:264:ARG:NH1	3:XC:115:LYS:HD3	2.29	0.47
1:AL:239:CYS:HB3	1:AL:248:SER:H	1.79	0.47
2:AM:295:VAL:HG21	2:AM:375:VAL:HG13	1.96	0.47
1:AN:237:THR:OG1	1:AN:241:ARG:NH1	2.46	0.47
2:BA:400:SER:OG	2:BA:401:LYS:NZ	2.46	0.47
1:BB:51:PHE:HB3	1:BB:59:TYR:HB3	1.96	0.47
1:BB:299:MET:HE1	1:BB:367:PHE:CD2	2.50	0.47
1:BD:27:GLU:OE2	1:BD:318:ARG:NH2	2.39	0.47
1:BF:272:PRO:HD3	1:BF:364:SER:HA	1.97	0.47
1:BH:256:ASN:HB3	1:BH:350:LYS:HE2	1.97	0.47
1:BJ:156:ARG:HH21	1:BJ:164:MET:HG2	1.78	0.47
2:BK:155:GLU:HG2	2:BK:197:HIS:CE1	2.49	0.47
2:BM:324:VAL:HG21	1:BN:219:THR:HB	1.97	0.47
2:C:211:ASP:O	2:C:215:ARG:HG2	2.14	0.47
1:CA:257:LEU:HD13	1:CA:368:ILE:HG21	1.97	0.47
1:CA:289:LEU:HD22	1:CA:365:VAL:HG12	1.96	0.47
1:CC:65:LEU:HB3	1:CC:73:MET:HE1	1.97	0.47
1:CC:100:ASN:HB3	1:CC:103:LYS:HB2	1.95	0.47
1:CC:252:LYS:HE3	2:CD:101:ASN:ND2	2.29	0.47
1:CE:165:MET:HE2	1:CE:198:GLU:OE2	2.14	0.47
1:CE:203:ASP:HB2	1:CE:302:ALA:H	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CG:309:ARG:N	1:CG:372:THR:OG1	2.36	0.47
2:CH:129:CYS:SG	2:CH:130:THR:N	2.87	0.47
2:CH:134:GLY:HA2	2:CH:164:LYS:HG3	1.96	0.47
2:CL:46:ASP:OD1	24:1K:301:PRO:HB2	2.14	0.47
2:CL:150:GLY:O	2:CL:154:LEU:HD23	2.14	0.47
1:CM:67:ASP:OD1	1:CM:68:LEU:N	2.46	0.47
2:DB:129:CYS:SG	2:DB:130:THR:N	2.87	0.47
1:DC:226:ASN:HA	1:DC:229:VAL:HG22	1.97	0.47
2:DD:255:PHE:HA	2:DD:258:ASN:HD21	1.78	0.47
1:DG:290:THR:HA	1:DG:293:MET:SD	2.54	0.47
1:DM:318:ARG:HB3	1:DM:357:PRO:HA	1.95	0.47
1:ED:87:PRO:HG2	1:FD:278:SER:HB2	1.96	0.47
1:EJ:87:PRO:HD3	1:FJ:281:TYR:HD2	1.79	0.47
1:EL:233:MET:O	1:EL:236:VAL:HG12	2.13	0.47
1:FB:2:ARG:HE	1:FB:240:LEU:CD2	2.27	0.47
1:FB:323:THR:HG21	2:FC:224:TYR:CZ	2.48	0.47
2:FC:74:VAL:O	2:FC:77:GLU:HG3	2.14	0.47
1:FD:372:THR:HB	1:FD:426:GLN:HB2	1.95	0.47
1:FJ:7:CYS:O	1:FJ:135:LEU:HA	2.14	0.47
1:G:165:MET:HB3	1:G:167:PHE:CE1	2.50	0.47
2:GI:142:GLY:CA	2:GI:183:GLU:HG3	2.44	0.47
2:GK:195:LEU:HD12	2:GK:266:HIS:HE1	1.79	0.47
2:HA:3:GLU:N	2:HA:3:GLU:OE1	2.47	0.47
2:HA:99:ALA:O	2:HA:105:ARG:NH1	2.45	0.47
1:HB:268:MET:HE1	1:HB:367:PHE:N	2.29	0.47
1:HD:173:PRO:HA	1:HD:176:SER:HB2	1.96	0.47
1:HD:324:LYS:HE2	2:HE:210:TYR:HA	1.96	0.47
2:HE:8:HIS:ND1	2:HE:17:GLY:HA3	2.29	0.47
2:HG:8:HIS:CD2	2:HG:17:GLY:HA3	2.50	0.47
1:HH:317:PHE:HB3	1:HH:321:MET:HE1	1.96	0.47
2:HI:316:CYS:HB3	2:HI:378:ILE:CG2	2.44	0.47
2:HK:241:SER:OG	2:HK:250:VAL:O	2.32	0.47
1:HL:237:THR:HG22	1:HL:250:LEU:HD21	1.96	0.47
2:HM:239:THR:HG23	2:HM:243:ARG:HH11	1.79	0.47
2:IA:316:CYS:HA	2:IA:352:LYS:HB2	1.97	0.47
1:IB:208:TYR:CE1	1:IB:225:LEU:HD11	2.49	0.47
2:IC:372:GLN:HA	7:0D:11:LEU:HD13	1.96	0.47
1:ID:344:TRP:H	1:ID:344:TRP:CD1	2.31	0.47
2:IG:204:LEU:HD12	2:IG:231:ILE:HG12	1.96	0.47
1:IJ:21:TRP:CZ3	1:IJ:50:TYR:HB3	2.50	0.47
1:IJ:267:MET:HB2	1:IJ:301:GLN:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IM:317:LEU:HA	2:IM:377:MET:HE1	1.95	0.47
2:J:15:GLN:HA	2:J:18:ASN:HB2	1.96	0.47
2:J:235:VAL:O	2:J:239:THR:HG22	2.14	0.47
2:J:421:ALA:O	2:J:425:LEU:HD23	2.13	0.47
2:JB:70:LEU:HD12	2:JB:99:ALA:HB2	1.96	0.47
1:JE:189:VAL:HG21	1:JE:378:PHE:HE1	1.79	0.47
1:JI:327:ASP:HB3	2:JJ:177:VAL:HG13	1.96	0.47
2:JJ:250:VAL:HG11	2:JJ:352:LYS:HE3	1.97	0.47
1:JK:238:CYS:SG	1:JK:239:CYS:N	2.87	0.47
1:JM:10:GLY:HA2	1:JM:143:THR:HG23	1.96	0.47
1:JM:174:ARG:HB2	1:JM:205:GLU:OE2	2.13	0.47
1:JM:187:LEU:HD22	1:JM:403:MET:HE1	1.96	0.47
2:JN:324:VAL:HG13	2:JN:327:ASP:H	1.78	0.47
2:JN:328:VAL:O	2:JN:332:ILE:HG12	2.14	0.47
2:K:9:ILE:HG22	2:K:146:GLY:HA2	1.96	0.47
1:KA:385:PHE:HE2	1:KA:412:GLU:HB3	1.78	0.47
2:KB:212:LEU:O	2:KB:216:SER:OG	2.26	0.47
2:KB:420:GLU:OE2	22:1w:43:HIS:ND1	2.43	0.47
1:KE:19:LYS:HG2	1:KE:226:ASN:C	2.39	0.47
1:KI:97:ALA:HB2	1:KI:143:THR:HB	1.96	0.47
2:KJ:156:ARG:HH21	35:2O:101:THR:HG21	1.78	0.47
2:KJ:296:PHE:CZ	2:KJ:335:ILE:HG21	2.50	0.47
2:KN:49:PHE:HB2	2:KN:53:PHE:HB2	1.96	0.47
2:KN:345:ASP:OD2	2:KN:346:TRP:N	2.48	0.47
1:LC:130:LEU:HB3	1:LC:162:ARG:HH11	1.79	0.47
1:LE:3:GLU:CB	1:LE:49:VAL:HA	2.44	0.47
2:LH:275:VAL:O	2:LH:275:VAL:HG13	2.15	0.47
2:LH:426:ALA:O	2:LH:429:GLU:HG3	2.14	0.47
2:LJ:264:ARG:HH22	2:LJ:427:ALA:HB3	1.77	0.47
2:LL:156:ARG:HG3	2:LL:156:ARG:HH11	1.79	0.47
1:LM:318:ARG:HB2	1:LM:358:PRO:HD3	1.96	0.47
1:LO:102:ALA:HB1	1:LO:401:GLU:HB2	1.96	0.47
1:MD:267:MET:HG2	1:MD:369:GLY:O	2.13	0.47
2:ME:285:GLN:OE1	2:ME:287:SER:OG	2.31	0.47
2:ME:367:ASP:OD1	2:ME:367:ASP:N	2.43	0.47
2:MI:1:MET:HG3	2:MI:131:GLY:HA3	1.96	0.47
2:MI:70:LEU:HD22	2:MI:110:ILE:HG22	1.96	0.47
1:ML:165:MET:HE2	1:ML:167:PHE:CZ	2.49	0.47
1:ML:209:ASP:OD1	1:ML:213:ARG:NH1	2.46	0.47
1:N:249:ASP:H	1:N:252:LYS:CB	2.26	0.47
1:N:345:ILE:HD12	2:NA:398:MET:CE	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NC:59:GLY:HA3	41:2o:412:ARG:HH22	1.78	0.47
1:ND:252:LYS:NZ	71:NE:501:GTP:O1A	2.44	0.47
2:NM:252:LEU:HA	2:NM:255:PHE:CE1	2.50	0.47
2:OA:406:HIS:HA	2:OA:409:VAL:HG12	1.96	0.47
1:OD:55:SER:C	41:2k:157:ARG:HH22	2.22	0.47
1:OD:324:LYS:HZ2	2:OE:222:PRO:HD2	1.80	0.47
2:OE:258:ASN:HD22	1:OF:179:VAL:HG22	1.80	0.47
1:OF:323:THR:HG21	2:OG:224:TYR:CZ	2.49	0.47
2:OI:103:TYR:HB3	2:OI:408:TYR:HE1	1.78	0.47
2:OM:54:SER:HA	2:OM:64:ARG:NH2	2.29	0.47
1:P:25:SER:HB2	1:P:81:TYR:CE2	2.49	0.47
1:P:67:ASP:OD1	1:P:68:LEU:N	2.48	0.47
1:PH:378:PHE:CE2	1:PH:418:LEU:HD23	2.49	0.47
2:PK:105:ARG:NH2	2:PK:110:ILE:HD13	2.25	0.47
2:PK:377:MET:HE2	2:PK:379:ALA:HB2	1.96	0.47
1:PL:230:ALA:HA	1:PL:233:MET:HB3	1.96	0.47
2:PM:111:GLY:O	2:PM:115:VAL:HG22	2.14	0.47
2:PM:172:TYR:CZ	2:PM:203:MET:HE1	2.49	0.47
2:PM:225:THR:O	2:PM:229:ARG:HG2	2.13	0.47
2:PM:240:ALA:HA	2:PM:243:ARG:HB2	1.95	0.47
2:Q:247:ALA:HB3	2:Q:355:ILE:HB	1.96	0.47
2:Q:324:VAL:HG12	2:Q:326:LYS:H	1.79	0.47
2:QB:259:LEU:HD11	2:QB:378:ILE:O	2.15	0.47
2:QD:252:LEU:HA	2:QD:255:PHE:CE2	2.49	0.47
2:QF:155:GLU:HG2	2:QF:197:HIS:CE1	2.49	0.47
1:QG:201:CYS:HB2	1:QG:377:MET:HE1	1.97	0.47
2:QJ:174:SER:CB	2:QJ:207:GLU:HG3	2.41	0.47
2:QL:372:GLN:HE22	41:2i:360:LEU:CD2	2.27	0.47
2:R:21:TRP:HZ2	2:R:65:CYS:HB3	1.80	0.47
1:RA:190:HIS:HB2	1:RA:414:ASN:HD22	1.80	0.47
2:RB:192:HIS:HE1	2:RB:421:ALA:HB2	1.79	0.47
2:RB:259:LEU:HD11	2:RB:378:ILE:HG23	1.96	0.47
1:RC:16:ILE:HD11	1:RC:136:SER:HB2	1.95	0.47
2:RD:11:GLN:HG3	2:RD:74:VAL:HG21	1.95	0.47
2:RD:362:VAL:HG22	2:RD:370:LYS:HB2	1.95	0.47
2:RH:90:GLU:HB2	59:3p:149:TYR:HB3	1.95	0.47
1:RI:391:ARG:NH1	57:3g:107:GLN:OE1	2.48	0.47
1:RK:6:SER:HA	1:RK:134:GLN:HB3	1.95	0.47
1:SB:295:ASP:OD2	1:SB:297:LYS:HG2	2.14	0.47
1:SB:301:GLN:OE1	1:SB:303:ALA:N	2.47	0.47
1:SD:260:PHE:HE2	1:SD:344:TRP:HH2	1.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SK:213:THR:OG1	2:SK:217:LEU:HD23	2.14	0.47
1:T:165:MET:HE2	1:T:167:PHE:CZ	2.50	0.47
1:TH:67:ASP:CG	1:TH:73:MET:HE2	2.40	0.47
1:TJ:153:SER:O	1:TJ:156:ARG:N	2.47	0.47
2:TK:431:ASP:HB2	57:3i:190:LEU:HD22	1.96	0.47
1:TL:22:GLU:HA	1:TL:81:TYR:HD1	1.78	0.47
1:TL:153:SER:HA	1:TL:195:ASN:HD22	1.79	0.47
1:TL:175:VAL:HG12	1:TL:175:VAL:O	2.14	0.47
1:U:221:THR:OG1	1:U:224:ASP:OD2	2.33	0.47
2:UA:209:ILE:HG23	2:UA:230:LEU:HD12	1.97	0.47
2:UA:241:SER:OG	2:UA:250:VAL:N	2.38	0.47
2:UE:22:GLU:HG2	2:UE:83:TYR:CZ	2.49	0.47
1:UH:257:LEU:HA	1:UH:312:THR:HG21	1.95	0.47
1:UJ:210:ILE:HG21	1:UJ:228:LEU:HD21	1.96	0.47
2:UK:175:PRO:HD2	2:UK:207:GLU:OE2	2.15	0.47
1:UL:362:LYS:NZ	1:UL:363:MET:HE2	2.29	0.47
1:V:68:LEU:HD12	1:V:97:ALA:HB2	1.95	0.47
2:VC:269:LEU:O	2:VC:378:ILE:HD12	2.13	0.47
2:VK:237:SER:HA	2:VK:320:ARG:HH11	1.79	0.47
2:VM:180:ALA:HB3	2:VM:183:GLU:HB2	1.95	0.47
2:VM:201:ALA:HB3	2:VM:267:PHE:CD1	2.50	0.47
2:VM:214:ARG:HH22	62:4B:415:GLY:HA2	1.78	0.47
2:VM:262:TYR:HB2	2:VM:265:ILE:HG12	1.96	0.47
1:W:324:LYS:HG2	2:WA:222:PRO:HD2	1.96	0.47
2:WA:167:LEU:HD23	2:WA:200:VAL:HB	1.96	0.47
1:WB:67:ASP:OD1	1:WB:143:THR:HG21	2.15	0.47
2:WC:271:SER:OG	2:WC:377:MET:HB3	2.14	0.47
1:WF:316:LEU:HB2	1:WF:366:THR:HG22	1.97	0.47
2:WK:150:GLY:O	2:WK:154:LEU:HD23	2.14	0.47
4:XO:90:ARG:HH12	4:XO:100:LYS:HD3	1.79	0.47
8:0F:54:GLY:CA	13:0Y:225:ARG:HH12	2.28	0.47
8:0F:141:ILE:HD13	8:0G:471:PHE:CE2	2.49	0.47
8:0G:413:LEU:HD12	53:3W:307:LEU:CB	2.44	0.47
9:0M:571:ASP:N	9:0M:571:ASP:OD1	2.46	0.47
9:0N:271:SER:HB3	9:0N:276:THR:N	2.27	0.47
9:0O:117:SER:CB	9:0O:122:TYR:HB3	2.44	0.47
9:0O:138:ASP:HB2	9:0O:145:LEU:CD1	2.44	0.47
16:0k:29:PHE:HB3	16:0k:49:VAL:HG23	1.96	0.47
16:0k:302:SER:OG	16:0k:306:ARG:NH2	2.42	0.47
16:0k:771:THR:O	16:0k:775:VAL:HG23	2.14	0.47
17:0n:296:LYS:HG2	17:0n:299:ARG:HH12	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:1E:143:LYS:HD3	45:2z:21:ALA:HB2	1.96	0.47
24:1H:447:VAL:HA	24:1H:453:SER:O	2.14	0.47
24:1K:678:HIS:O	24:1K:681:THR:OG1	2.27	0.47
27:1S:117:LYS:NZ	54:3Z:264:VAL:O	2.37	0.47
29:1j:83:ASP:OD1	29:1j:83:ASP:N	2.46	0.47
37:2S:193:THR:OG1	37:2S:219:MET:HE1	2.15	0.47
41:2c:348:MET:O	41:2c:352:ARG:HG2	2.14	0.47
41:2i:467:TYR:CZ	41:2i:471:LEU:HD11	2.49	0.47
41:2l:272:ASP:OD1	41:2l:273:GLU:N	2.47	0.47
42:2r:30:ARG:O	42:2r:33:ARG:HG2	2.15	0.47
43:2t:148:LYS:HB2	43:2t:151:LEU:HD12	1.97	0.47
43:2t:157:LYS:HZ3	43:2t:161:ARG:CG	2.28	0.47
46:3B:121:ARG:NH1	46:3B:199:SER:OG	2.44	0.47
49:3Q:310:LEU:HD23	49:3Q:370:VAL:HG11	1.95	0.47
61:3w:168:GLU:HA	61:3w:171:MET:HG3	1.97	0.47
62:4A:427:TRP:CH2	62:4A:430:PRO:HD3	2.49	0.47
28:4V:237:PRO:HB2	28:4W:22:ILE:CG2	2.35	0.47
66:5K:54:ASN:OD1	66:5K:136:LYS:N	2.46	0.47
66:5L:28:ILE:O	66:5L:222:HIS:NE2	2.46	0.47
67:5P:40:PHE:HB2	67:5P:94:LEU:HB3	1.95	0.47
2:AA:269:LEU:HD11	2:AA:305:CYS:HB3	1.96	0.47
2:AC:3:GLU:HA	2:AC:51:THR:HA	1.97	0.47
2:AC:331:ALA:O	2:AC:335:ILE:HG12	2.15	0.47
2:AE:117:LEU:O	2:AE:121:ARG:HG2	2.14	0.47
2:AE:241:SER:HB2	2:AE:318:MET:HE1	1.97	0.47
1:AJ:139:LEU:HG	1:AJ:168:SER:HB2	1.97	0.47
1:B:167:PHE:HD2	1:B:233:MET:HE2	1.80	0.47
2:BA:241:SER:HB2	2:BA:250:VAL:H	1.79	0.47
2:BC:278:ALA:HB3	16:0k:566:GLU:CD	2.39	0.47
2:BE:271:SER:HA	2:BE:302:LEU:HD13	1.95	0.47
1:BF:113:ILE:HG21	1:BF:154:LYS:HE2	1.95	0.47
1:BF:267:MET:CG	1:BF:301:GLN:HE22	2.26	0.47
1:BF:267:MET:HE1	1:BF:373:CYS:SG	2.54	0.47
1:BH:424:GLN:O	1:BH:428:ALA:HB2	2.13	0.47
1:BL:8:GLN:CD	1:BL:17:GLY:HA3	2.39	0.47
2:BM:18:ASN:HD21	2:BM:78:VAL:HG22	1.79	0.47
1:BN:360:GLY:HA3	24:1K:109:ALA:HA	1.96	0.47
2:C:256:GLN:NE2	1:CA:397:TRP:HZ2	2.11	0.47
1:CA:346:PRO:HG2	2:CB:394:LYS:HD3	1.95	0.47
2:CD:21:TRP:CZ2	2:CD:65:CYS:HB3	2.49	0.47
2:CF:390:ARG:HB2	2:CF:390:ARG:NH1	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CJ:273:ALA:HB3	2:CJ:295:VAL:HG23	1.96	0.47
1:CK:66:MET:HE3	1:CK:116:VAL:HG21	1.95	0.47
1:CK:255:VAL:HG11	2:CL:100:ALA:O	2.15	0.47
1:CK:350:LYS:HA	2:CL:179:THR:O	2.14	0.47
2:CL:27:GLU:OE2	2:CL:243:ARG:NH1	2.37	0.47
2:CL:387:VAL:O	2:CL:390:ARG:HG2	2.14	0.47
1:CM:7:CYS:HB3	1:CM:66:MET:CE	2.44	0.47
1:CM:380:ARG:HA	1:CM:383:GLU:OE1	2.14	0.47
2:D:51:THR:O	2:D:64:ARG:HD2	2.15	0.47
2:D:205:ASP:OD1	2:D:303:THR:HA	2.14	0.47
1:DE:268:MET:SD	1:DE:368:ILE:HD13	2.54	0.47
1:DE:282:ARG:NH1	1:DE:283:GLY:O	2.47	0.47
2:EG:145:THR:HG22	71:EG:501:GTP:PG	2.54	0.47
2:EG:204:LEU:HD12	2:EG:231:ILE:HG12	1.97	0.47
2:EI:66:LEU:HD13	2:EI:122:ILE:HG12	1.95	0.47
2:EI:422:ARG:HA	2:EI:422:ARG:HD2	1.65	0.47
2:FE:152:LEU:HA	2:FE:155:GLU:OE1	2.14	0.47
1:FF:3:GLU:HB2	1:FF:130:LEU:HA	1.95	0.47
1:FF:8:GLN:HE22	1:FF:21:TRP:CD1	2.32	0.47
1:FF:125:GLU:OE2	59:4O:242:VAL:HG22	2.14	0.47
1:FF:404:ASP:OD1	1:FF:405:GLU:N	2.47	0.47
2:FG:176:GLN:NE2	63:4I:259:GLY:HA2	2.29	0.47
2:FK:11:GLN:O	2:FK:15:GLN:HG2	2.15	0.47
2:FK:298:PRO:HB3	2:FK:307:PRO:HD2	1.96	0.47
1:FL:372:THR:HA	1:FL:422:TYR:HD2	1.78	0.47
1:G:210:ILE:HD11	1:G:298:ASN:HA	1.95	0.47
2:GG:6:CYS:O	2:GG:65:CYS:HA	2.15	0.47
2:GI:157:LEU:O	2:GI:161:TYR:HB2	2.15	0.47
2:GI:297:GLU:HG3	2:GI:299:ALA:H	1.80	0.47
1:GJ:276:ARG:HH11	10:0S:345:TRP:HB3	1.79	0.47
1:GJ:317:PHE:CD1	1:GJ:321:MET:HE1	2.49	0.47
2:HA:93:VAL:HG11	2:HA:117:LEU:HD11	1.97	0.47
2:HC:269:LEU:HD13	2:HC:301:MET:HE2	1.96	0.47
2:HE:199:ASP:HB3	2:HE:256:GLN:OE1	2.15	0.47
2:HG:17:GLY:HA2	2:HG:20:CYS:SG	2.55	0.47
2:HG:199:ASP:HB3	2:HG:256:GLN:HE22	1.78	0.47
2:HG:228:ASN:OD1	71:HG:501:GTP:N1	2.46	0.47
2:HM:279:GLU:HG2	2:HM:280:LYS:N	2.29	0.47
1:I:172:SER:HB3	1:I:205:GLU:OE2	2.15	0.47
2:IA:133:GLN:HB3	2:IA:252:LEU:HD23	1.97	0.47
2:IC:118:ALA:O	2:IC:122:ILE:HG12	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IF:103:LYS:HB3	1:IF:401:GLU:HG3	1.96	0.47
1:IF:268:MET:HE2	1:IF:268:MET:HA	1.97	0.47
1:IH:66:MET:SD	1:IH:116:VAL:HG11	2.54	0.47
1:IL:58:ARG:NH1	2:JL:282:TYR:O	2.47	0.47
1:IL:101:TRP:HD1	1:IL:403:MET:CE	2.27	0.47
1:JE:279:GLN:HG2	19:0r:155:SER:H	1.80	0.47
2:JJ:103:TYR:CD1	2:JJ:189:LEU:HB3	2.48	0.47
2:JJ:346:TRP:CD1	1:JK:391:ARG:HD2	2.50	0.47
1:JM:328:GLU:CD	1:JM:332:ASN:HD21	2.23	0.47
1:KA:309:ARG:H	1:KA:372:THR:HG1	1.57	0.47
1:KC:233:MET:O	1:KC:236:VAL:HG12	2.14	0.47
2:KD:27:GLU:HG2	2:KD:361:THR:HG21	1.97	0.47
1:KE:26:ASP:OD1	1:KE:359:LYS:HD3	2.15	0.47
1:KE:149:THR:HA	1:KE:152:ILE:HG22	1.96	0.47
1:KE:286:VAL:HG11	1:KE:325:GLU:HB3	1.96	0.47
2:KH:111:GLY:HA2	2:KH:114:ILE:HG22	1.96	0.47
1:KM:318:ARG:HB2	1:KM:358:PRO:HD3	1.95	0.47
1:KM:324:LYS:HD3	2:KN:210:TYR:CD1	2.48	0.47
2:KN:200:VAL:HG23	2:KN:256:GLN:HE22	1.80	0.47
2:KN:207:GLU:HB2	2:KN:304:LYS:HG3	1.96	0.47
2:LB:167:LEU:HG	2:LB:252:LEU:HD22	1.97	0.47
2:LF:322:ASP:OD1	2:LF:373:ARG:NE	2.45	0.47
2:LH:265:ILE:HG21	2:LH:313:MET:HE1	1.97	0.47
1:LM:345:ILE:HG23	1:LM:348:ASN:ND2	2.28	0.47
2:MA:72:PRO:O	2:MA:76:ASP:HB2	2.13	0.47
2:MA:74:VAL:O	2:MA:77:GLU:HG3	2.14	0.47
2:MA:388:PHE:CD1	2:MA:425:LEU:HD11	2.50	0.47
1:MB:278:SER:O	1:MB:282:ARG:HG2	2.14	0.47
2:ME:17:GLY:HA2	2:ME:20:CYS:SG	2.54	0.47
1:MF:3:GLU:HB2	1:MF:130:LEU:HD23	1.97	0.47
1:MF:113:ILE:HA	1:MF:116:VAL:HG12	1.96	0.47
1:MH:392:LYS:HE3	1:MH:405:GLU:OE2	2.15	0.47
2:MI:257:THR:OG1	1:MJ:98:GLY:O	2.25	0.47
2:MI:293:ASN:O	2:MI:297:GLU:HG2	2.15	0.47
2:MI:388:PHE:HD2	2:MI:432:TYR:HE2	1.61	0.47
1:MJ:386:THR:OG1	1:MJ:412:GLU:OE2	2.23	0.47
1:ML:91:ILE:HG22	1:ML:112:LEU:HD21	1.96	0.47
2:MM:262:TYR:HB2	2:MM:265:ILE:HG12	1.97	0.47
1:MN:187:LEU:HA	1:MN:190:HIS:CE1	2.50	0.47
1:ND:267:MET:O	1:ND:268:MET:HE2	2.15	0.47
1:NF:375:GLN:NE2	1:NF:423:GLN:OE1	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NG:319:TYR:HD2	2:NG:323:VAL:HG11	1.79	0.47
2:NI:252:LEU:HA	2:NI:255:PHE:CE1	2.49	0.47
2:NI:324:VAL:HG12	2:NI:326:LYS:HE3	1.97	0.47
1:NJ:305:PRO:HA	1:NJ:371:ASN:ND2	2.29	0.47
1:O:49:VAL:HG11	1:O:241:ARG:HG2	1.97	0.47
1:OB:139:LEU:HG	1:OB:168:SER:HB2	1.95	0.47
1:OB:187:LEU:O	1:OB:190:HIS:NE2	2.47	0.47
1:OB:217:LEU:HB2	1:OB:220:PRO:HG3	1.96	0.47
1:OB:247:ASN:HD22	2:OC:73:THR:HG23	1.80	0.47
1:OB:255:VAL:HG11	2:OC:100:ALA:O	2.14	0.47
2:OC:60:LYS:NZ	41:2k:190:TRP:NE1	2.62	0.47
2:OC:71:GLU:HB3	2:OC:98:ASP:HA	1.97	0.47
2:OC:271:SER:HB3	2:OC:301:MET:HA	1.97	0.47
2:OE:84:ARG:NH2	41:2k:145:THR:O	2.41	0.47
1:OF:113:ILE:HG13	1:OF:117:LEU:HD23	1.96	0.47
1:OF:248:SER:HA	1:OF:252:LYS:HD2	1.96	0.47
1:OH:179:VAL:HG23	1:OH:180:VAL:HG13	1.95	0.47
2:OI:91:GLN:HE21	2:OI:125:LEU:HD21	1.80	0.47
1:OJ:255:VAL:HG11	2:OK:100:ALA:O	2.14	0.47
1:OL:61:PRO:HD3	1:OL:84:LEU:HG	1.96	0.47
2:OM:271:SER:HB2	2:OM:300:GLY:O	2.14	0.47
1:P:10:GLY:HA2	69:P:500:GDP:O1B	2.14	0.47
2:PG:50:ASN:O	2:PG:64:ARG:NH2	2.48	0.47
2:PK:328:VAL:O	2:PK:332:ILE:HG12	2.13	0.47
1:PL:317:PHE:HB2	1:PL:353:ILE:HD13	1.96	0.47
1:PL:347:ASN:ND2	2:PM:178:SER:O	2.44	0.47
2:Q:273:ALA:HB3	2:Q:295:VAL:HG23	1.96	0.47
1:QA:91:ILE:HD11	1:QA:119:VAL:HG21	1.97	0.47
2:QB:119:LEU:HD21	2:QB:160:ASP:OD2	2.15	0.47
1:QE:319:GLY:HA2	1:QE:357:PRO:HD3	1.96	0.47
1:QI:267:MET:HE3	1:QI:299:MET:HE2	1.95	0.47
2:QJ:390:ARG:NE	2:QJ:394:LYS:HE3	2.30	0.47
1:QK:392:LYS:HG3	1:QK:395:LEU:HD22	1.97	0.47
2:RB:28:HIS:NE2	2:RB:48:ALA:O	2.47	0.47
2:RD:372:GLN:HG2	41:2e:360:LEU:CD1	2.44	0.47
71:RD:501:GTP:H8	71:RD:501:GTP:O2A	1.97	0.47
1:RE:135:LEU:HD23	1:RE:152:ILE:HD11	1.97	0.47
1:RE:341:PHE:HB3	1:RE:348:ASN:ND2	2.29	0.47
1:RG:175:VAL:O	1:RG:175:VAL:HG12	2.14	0.47
1:RI:21:TRP:HZ3	1:RI:50:TYR:HB3	1.78	0.47
1:RK:172:SER:HB2	1:RK:203:ASP:OD1	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:367:PHE:HE2	1:S:369:GLY:HA3	1.78	0.47
2:SA:159:VAL:HG21	56:3d:231:TYR:CD1	2.47	0.47
1:SB:255:VAL:HG11	2:SC:102:ASN:HD21	1.79	0.47
2:SC:138:PHE:CE2	2:SC:235:VAL:HG21	2.50	0.47
2:SI:254:GLU:O	2:SI:258:ASN:ND2	2.44	0.47
2:TE:119:LEU:HD11	2:TE:156:ARG:HB3	1.96	0.47
1:TF:172:SER:OG	1:TF:380:ARG:NH1	2.47	0.47
1:TF:213:ARG:CG	1:TF:297:LYS:HE3	2.44	0.47
2:TK:142:GLY:HA2	2:TK:183:GLU:HG3	1.96	0.47
2:TK:273:ALA:HB3	2:TK:295:VAL:HG23	1.97	0.47
1:TL:167:PHE:HE2	1:TL:233:MET:HG3	1.78	0.47
2:UA:175:PRO:HD2	2:UA:207:GLU:HG3	1.96	0.47
2:UC:147:SER:HB2	2:UC:190:SER:HB3	1.97	0.47
2:UC:326:LYS:NZ	1:UD:220:PRO:HG2	2.29	0.47
1:UJ:19:LYS:HA	1:UJ:22:GLU:HG2	1.95	0.47
1:VB:67:ASP:OD2	1:VB:73:MET:HG2	2.14	0.47
2:VC:177:VAL:N	2:VC:207:GLU:OE2	2.48	0.47
2:VG:199:ASP:HB3	2:VG:256:GLN:HE22	1.80	0.47
2:VI:111:GLY:O	2:VI:115:VAL:HG23	2.14	0.47
2:VK:271:SER:HA	2:VK:302:LEU:HD23	1.96	0.47
1:VL:236:VAL:HG13	1:VL:237:THR:HG23	1.95	0.47
2:WA:260:VAL:HB	1:WB:397:TRP:HZ2	1.79	0.47
2:WE:123:ARG:HA	2:WE:161:TYR:OH	2.14	0.47
1:WH:235:GLY:HA3	1:WH:366:THR:HG21	1.96	0.47
1:WJ:273:LEU:H	1:WJ:292:GLN:HE22	1.62	0.47
1:WJ:293:MET:HG3	1:WJ:367:PHE:HB2	1.97	0.47
1:WL:323:THR:HG21	2:WM:224:TYR:CZ	2.48	0.47
4:XM:232:ILE:O	4:XM:236:LEU:HD23	2.14	0.47
5:XP:84:HIS:ND1	32:2C:85:LYS:HD3	2.30	0.47
5:XP:228:PHE:O	5:XP:231:ILE:HG22	2.14	0.47
9:0M:572:ARG:HG2	9:0M:593:CYS:C	2.39	0.47
9:0N:80:GLN:HE21	9:0N:89:ASP:CG	2.22	0.47
10:0S:398:SER:O	10:0S:401:LYS:HG3	2.14	0.47
16:0l:16:ARG:NH1	16:0l:105:LEU:HA	2.29	0.47
17:0m:100:ARG:HH11	17:0m:104:LYS:NZ	2.12	0.47
24:1I:103:GLU:N	24:1I:113:GLU:OE2	2.47	0.47
24:1J:93:ARG:NH1	24:1J:124:LEU:HB2	2.30	0.47
24:1J:530:LYS:O	24:1J:533:ARG:HG3	2.14	0.47
26:1Q:725:TRP:O	26:1Q:728:ARG:HG2	2.14	0.47
31:1t:153:PHE:O	31:1t:156:SER:OG	2.23	0.47
22:1w:233:ASP:OD1	22:1w:234:ALA:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:1x:96:ARG:HA	22:1x:128:ARG:HE	1.78	0.47
36:2Q:68:GLU:N	36:2Q:68:GLU:OE1	2.48	0.47
40:2Z:11:GLU:HB3	40:2Z:16:LYS:HB2	1.97	0.47
41:2c:351:ARG:HA	41:2c:354:LYS:HD2	1.95	0.47
41:2e:217:ALA:O	41:2e:221:ARG:HG2	2.14	0.47
47:3D:43:LEU:HB2	47:3D:47:TRP:CG	2.49	0.47
48:3I:101:ASP:O	48:3I:104:GLN:HG3	2.15	0.47
49:3Q:372:MET:O	49:3Q:376:ASP:CB	2.61	0.47
49:3Q:503:SER:HB2	49:3Q:506:LEU:HD23	1.96	0.47
57:3h:114:ASP:HB3	57:3h:118:ARG:NH1	2.28	0.47
65:5H:163:ARG:HG2	65:5H:163:ARG:HH11	1.79	0.47
67:5P:31:ILE:HB	67:5P:104:GLU:HG2	1.96	0.47
1:AH:21:TRP:CE3	1:AH:61:PRO:HB3	2.50	0.47
2:AK:81:GLY:HA3	54:3a:148:TYR:HE2	1.79	0.47
1:AL:236:VAL:HG23	1:AL:368:ILE:HD11	1.96	0.47
2:BC:2:ARG:HB2	2:BC:242:LEU:HD13	1.96	0.47
2:BC:393:HIS:O	2:BC:397:LEU:HG	2.15	0.47
1:BD:171:PRO:HG3	1:BD:181:GLU:OE1	2.13	0.47
2:BE:345:ASP:OD1	2:BE:346:TRP:N	2.47	0.47
1:BH:240:LEU:HD11	1:BH:249:ASP:HA	1.96	0.47
2:BI:150:GLY:O	2:BI:154:LEU:HD23	2.14	0.47
2:BI:244:PHE:HB2	2:BI:356:ASN:HD21	1.78	0.47
2:BM:258:ASN:HD22	1:BN:99:ASN:ND2	2.12	0.47
1:BN:334:GLN:HA	1:BN:341:PHE:CE2	2.49	0.47
1:CA:272:PRO:HG3	1:CA:289:LEU:HD21	1.96	0.47
1:CI:275:SER:OG	1:CI:278:SER:OG	2.27	0.47
2:CJ:42:ILE:HD13	24:1J:252:ARG:HH21	1.80	0.47
2:D:392:ASP:OD1	2:D:393:HIS:N	2.48	0.47
1:DC:245:GLN:H	1:DC:245:GLN:HE21	1.61	0.47
1:DC:350:LYS:HD3	2:DD:179:THR:HG22	1.96	0.47
2:DD:88:ASN:OD1	2:DD:89:PRO:HD2	2.14	0.47
1:E:174:ARG:HB2	1:E:205:GLU:OE2	2.15	0.47
2:EC:227:VAL:O	2:EC:231:ILE:HG12	2.14	0.47
1:EF:249:ASP:OD1	1:EF:252:LYS:HB2	2.15	0.47
1:EH:2:ARG:HB3	1:EH:240:LEU:HD23	1.95	0.47
2:EI:332:ILE:HD11	2:EI:353:CYS:SG	2.54	0.47
1:EJ:16:ILE:HD12	1:EJ:229:VAL:HG11	1.96	0.47
1:EJ:113:ILE:HG13	1:EJ:117:LEU:HD23	1.97	0.47
1:EL:15:GLN:O	1:EL:19:LYS:HG2	2.13	0.47
2:FA:91:GLN:H	2:FA:121:ARG:HH11	1.62	0.47
1:FD:270:PHE:HD1	1:FD:366:THR:HG22	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FE:293:ASN:O	2:FE:297:GLU:HG2	2.15	0.47
2:FE:358:GLN:OE1	2:FE:359:PRO:HD2	2.15	0.47
1:FF:4:ILE:HD11	1:FF:240:LEU:HD13	1.97	0.47
1:FF:16:ILE:HD11	1:FF:229:VAL:HG11	1.96	0.47
2:FI:156:ARG:HA	2:FI:159:VAL:HG12	1.96	0.47
1:FJ:66:MET:HE2	1:FJ:147:MET:HG3	1.96	0.47
2:FK:167:LEU:HD21	2:FK:255:PHE:HZ	1.79	0.47
2:FK:186:ASN:OD1	2:FK:408:TYR:OH	2.23	0.47
2:FK:288:VAL:O	2:FK:291:ILE:HG22	2.15	0.47
2:FK:291:ILE:O	2:FK:295:VAL:HG23	2.14	0.47
1:FL:397:TRP:O	1:FL:401:GLU:HG2	2.15	0.47
1:GB:6:SER:O	1:GB:63:ALA:HA	2.13	0.47
2:GC:155:GLU:HG2	2:GC:197:HIS:CE1	2.50	0.47
1:GD:77:ARG:NH1	1:GD:90:PHE:HE1	2.12	0.47
1:GD:245:GLN:HG2	2:GE:224:TYR:HD1	1.79	0.47
2:GE:402:ARG:HG2	2:GE:402:ARG:HH11	1.80	0.47
1:GF:143:THR:OG1	1:GF:147:MET:SD	2.72	0.47
1:GF:226:ASN:OD1	69:GF:500:GDP:N1	2.28	0.47
2:GK:138:PHE:CE1	2:GK:169:TYR:HD2	2.33	0.47
1:GL:6:SER:O	1:GL:63:ALA:HA	2.15	0.47
2:HE:312:TYR:HD1	2:HE:381:SER:HB2	1.80	0.47
2:HI:271:SER:HB3	2:HI:301:MET:HA	1.96	0.47
2:HK:298:PRO:HB3	2:HK:307:PRO:HD2	1.96	0.47
1:HL:318:ARG:HB3	1:HL:357:PRO:HA	1.96	0.47
2:HM:8:HIS:HD2	2:HM:67:PHE:CZ	2.32	0.47
2:HM:275:VAL:HG23	2:HM:368:LEU:HD11	1.95	0.47
1:I:6:SER:O	1:I:63:ALA:HA	2.14	0.47
1:I:202:ILE:HD12	1:I:300:MET:HG2	1.97	0.47
1:I:263:LEU:HD11	1:I:425:TYR:CE2	2.50	0.47
2:IA:335:ILE:HD13	2:IA:338:LYS:HZ2	1.79	0.47
1:IB:130:LEU:HD21	1:IB:133:PHE:CE1	2.49	0.47
1:ID:252:LYS:NZ	2:IE:101:ASN:OD1	2.48	0.47
1:ID:417:ASP:O	1:ID:420:SER:OG	2.25	0.47
1:IF:19:LYS:HG3	1:IF:22:GLU:OE1	2.15	0.47
1:IF:50:TYR:HD2	1:IF:241:ARG:HD3	1.79	0.47
1:IF:323:THR:HA	1:IF:326:VAL:HG12	1.97	0.47
2:IG:32:PRO:HA	2:IG:86:LEU:HD12	1.96	0.47
2:II:90:GLU:HB2	2:II:121:ARG:NE	2.29	0.47
1:IL:19:LYS:NZ	1:IL:227:HIS:HB2	2.29	0.47
2:J:90:GLU:HG3	2:J:91:GLN:N	2.29	0.47
2:JB:103:TYR:HB3	2:JB:408:TYR:HE2	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JC:374:ILE:O	1:JC:377:MET:HG2	2.14	0.47
2:JF:264:ARG:HG2	2:JF:264:ARG:HH11	1.80	0.47
2:JF:269:LEU:HD22	2:JF:303:THR:HG21	1.96	0.47
2:JH:241:SER:HA	2:JH:356:ASN:HD22	1.79	0.47
1:KA:51:PHE:O	1:KA:62:ARG:NH2	2.48	0.47
2:KH:102:ASN:HB3	2:KH:105:ARG:HB2	1.96	0.47
1:KI:22:GLU:HG2	1:KI:81:TYR:HD1	1.78	0.47
1:KI:145:SER:HB2	1:KI:188:SER:OG	2.15	0.47
2:KJ:248:LEU:HG	1:KK:222:PHE:HE2	1.79	0.47
2:L:91:GLN:H	2:L:121:ARG:NH1	2.12	0.47
1:LE:242:PHE:HB3	1:LE:356:ILE:HD12	1.96	0.47
1:LE:404:ASP:HB3	50:3S:139:VAL:HG11	1.96	0.47
2:LF:267:PHE:CD2	2:LF:388:PHE:HZ	2.32	0.47
1:LG:227:HIS:ND1	25:1O:27:ILE:HG12	2.30	0.47
2:LH:408:TYR:HB3	2:LH:413:MET:HE2	1.96	0.47
2:LJ:71:GLU:OE2	2:LJ:73:THR:OG1	2.27	0.47
1:LK:41:ASP:OD2	44:2w:59:ILE:HG21	2.14	0.47
2:LL:370:LYS:H	23:1E:70:GLN:NE2	2.13	0.47
1:LM:324:LYS:HZ1	2:LN:221:ARG:HA	1.79	0.47
1:LO:289:LEU:O	1:LO:293:MET:HG3	2.15	0.47
1:MB:313:ALA:HB3	1:MB:349:ILE:HD13	1.97	0.47
1:MD:41:ASP:O	1:MD:45:GLU:HG3	2.15	0.47
1:MD:141:GLY:O	1:MD:145:SER:OG	2.29	0.47
1:MD:226:ASN:OD1	69:MD:500:GDP:N1	2.41	0.47
2:ME:199:ASP:CG	2:ME:256:GLN:HE21	2.19	0.47
2:ME:223:SER:O	2:ME:227:VAL:HG23	2.15	0.47
1:MF:406:MET:HE2	1:MF:406:MET:HA	1.95	0.47
2:MG:275:VAL:HG13	2:MG:275:VAL:O	2.14	0.47
2:MG:408:TYR:HB3	2:MG:413:MET:SD	2.55	0.47
2:MK:271:SER:HB3	2:MK:301:MET:HG2	1.96	0.47
2:MK:372:GLN:NE2	2:MK:373:ARG:HB2	2.29	0.47
1:MN:198:GLU:HB2	1:MN:266:PHE:CE2	2.48	0.47
1:MN:229:VAL:O	1:MN:233:MET:HG3	2.15	0.47
1:NB:252:LYS:HE2	2:NC:101:ASN:ND2	2.30	0.47
2:NC:50:ASN:O	2:NC:64:ARG:NH1	2.48	0.47
1:ND:375:GLN:NE2	1:ND:379:ARG:HE	2.13	0.47
2:NE:51:THR:HG21	2:NE:243:ARG:HG2	1.96	0.47
2:NG:234:VAL:HG21	2:NG:302:LEU:HG	1.96	0.47
2:NG:260:VAL:HB	1:NH:397:TRP:HZ2	1.78	0.47
2:NG:296:PHE:CE2	2:NG:377:MET:HE1	2.48	0.47
1:NH:347:ASN:O	2:NI:181:VAL:HG12	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NI:138:PHE:HE2	2:NI:235:VAL:HG21	1.79	0.47
1:NJ:233:MET:O	1:NJ:236:VAL:HG12	2.14	0.47
2:OA:11:GLN:HE22	71:OA:501:GTP:H8	1.62	0.47
2:OE:103:TYR:HB3	2:OE:408:TYR:HE2	1.80	0.47
1:OJ:2:ARG:N	1:OJ:131:GLN:HB2	2.29	0.47
1:OJ:175:VAL:HG12	1:OJ:175:VAL:O	2.13	0.47
1:OJ:318:ARG:HB2	1:OJ:358:PRO:HD3	1.97	0.47
2:OK:22:GLU:OE2	28:1h:118:PHE:HB3	2.14	0.47
2:OK:215:ARG:NE	2:OK:299:ALA:HB1	2.28	0.47
2:OM:288:VAL:HG11	2:OM:327:ASP:HB3	1.95	0.47
1:P:245:GLN:O	2:PA:11:GLN:NE2	2.46	0.47
1:PB:128:ASP:OD1	1:PB:129:CYS:N	2.44	0.47
2:PE:54:SER:HB3	2:PE:64:ARG:HE	1.79	0.47
1:PF:344:TRP:HB3	1:PF:430:VAL:HG12	1.97	0.47
2:PG:79:ARG:HG2	2:PG:92:LEU:HD21	1.95	0.47
2:PG:346:TRP:HB3	1:PH:391:ARG:HD3	1.96	0.47
2:PI:205:ASP:OD2	2:PI:303:THR:HA	2.15	0.47
1:PL:19:LYS:O	1:PL:22:GLU:HB2	2.13	0.47
2:PM:175:PRO:HD2	2:PM:207:GLU:OE1	2.15	0.47
2:PM:209:ILE:HD12	2:PM:302:LEU:HD11	1.97	0.47
1:QC:347:ASN:ND2	2:QD:178:SER:O	2.48	0.47
1:QE:326:VAL:HG11	1:QE:353:ILE:HD11	1.97	0.47
1:QG:33:THR:O	1:QG:58:ARG:NH2	2.45	0.47
1:QG:139:LEU:HG	1:QG:168:SER:HB2	1.97	0.47
1:QG:306:ARG:HA	1:QG:306:ARG:NH1	2.29	0.47
2:QH:274:PRO:HG2	2:QH:371:VAL:HG11	1.95	0.47
2:QJ:81:GLY:HA3	28:1b:187:TYR:HE2	1.80	0.47
1:QK:8:GLN:OE1	1:QK:14:ASN:HA	2.13	0.47
2:QL:307:PRO:HB3	2:QL:312:TYR:HE1	1.80	0.47
1:RA:150:LEU:O	1:RA:154:LYS:HG2	2.13	0.47
2:RB:252:LEU:HA	2:RB:255:PHE:CE1	2.49	0.47
2:RD:96:LYS:HD2	2:RD:96:LYS:N	2.29	0.47
2:RD:183:GLU:HG2	2:RD:184:PRO:HD3	1.96	0.47
1:RE:252:LYS:HD2	2:RF:101:ASN:OD1	2.15	0.47
2:RH:326:LYS:HG2	1:RI:212:PHE:HE2	1.79	0.47
2:RJ:239:THR:HG23	2:RJ:243:ARG:HE	1.80	0.47
2:SA:2:ARG:HD2	2:SA:242:LEU:O	2.14	0.47
1:SB:156:ARG:HH22	1:SB:197:ASP:CG	2.22	0.47
1:SB:360:GLY:HA3	28:1U:138:LEU:HD13	1.95	0.47
2:SE:96:LYS:HZ1	61:3w:234:ASP:HB3	1.80	0.47
1:SF:4:ILE:HG22	1:SF:131:GLN:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SF:151:LEU:HG	1:SF:155:LEU:HD13	1.96	0.47
1:SF:181:GLU:HB3	1:SF:182:PRO:HD3	1.95	0.47
1:SF:199:SER:O	1:SF:265:PHE:HA	2.14	0.47
1:SH:306:ARG:HG2	1:SH:340:TYR:CE2	2.46	0.47
1:SJ:55:SER:HB2	21:0x:495:PHE:HE2	1.79	0.47
2:TE:1:MET:HE2	1:TF:70:PRO:HG2	1.97	0.47
1:TJ:311:LEU:HA	1:TJ:342:ILE:HD13	1.96	0.47
1:TL:175:VAL:HG23	1:TL:205:GLU:OE2	2.14	0.47
1:UF:375:GLN:HB3	1:UF:422:TYR:HB2	1.97	0.47
2:UG:69:ASP:OD1	2:UG:71:GLU:HG3	2.14	0.47
2:UG:396:ASP:HB3	2:UG:422:ARG:CZ	2.43	0.47
1:UJ:61:PRO:HD3	1:UJ:84:LEU:HG	1.95	0.47
1:UL:362:LYS:HZ2	1:UL:363:MET:HE2	1.79	0.47
2:VA:270:THR:HA	2:VA:377:MET:O	2.15	0.47
2:VE:2:ARG:O	2:VE:51:THR:OG1	2.26	0.47
2:VE:215:ARG:NH2	62:4B:204:LEU:O	2.47	0.47
2:VK:102:ASN:HB3	2:VK:105:ARG:HB2	1.97	0.47
1:WB:267:MET:HG2	1:WB:369:GLY:O	2.15	0.47
2:WE:257:THR:HG1	1:WF:397:TRP:CD1	2.33	0.47
2:WI:125:LEU:HG	4:XQ:31:PHE:HZ	1.79	0.47
2:WK:69:ASP:OD1	2:WK:70:LEU:N	2.48	0.47
5:XN:100:CYS:O	5:XN:109:ARG:NH2	2.48	0.47
6:0A:104:PHE:CE2	6:0A:153:GLY:HA3	2.50	0.47
7:0D:116:TYR:HE2	7:0D:118:SER:HB3	1.80	0.47
7:0D:350:GLU:CD	7:0D:352:LYS:H	2.22	0.47
16:0l:777:LEU:O	16:0l:781:ARG:HA	2.15	0.47
16:0l:951:LEU:O	16:0l:955:ALA:CB	2.62	0.47
16:0k:50:LEU:HB2	16:0k:62:MET:HE1	1.95	0.47
20:0t:231:PHE:CD1	20:0t:240:GLU:HG2	2.50	0.47
22:0z:74:GLY:HA3	22:0z:129:ARG:HD2	1.96	0.47
23:1D:63:ASP:O	23:1D:67:LEU:HD23	2.14	0.47
24:1H:647:ARG:NH1	24:1H:651:GLU:HB2	2.25	0.47
24:1K:351:LEU:HD12	24:1K:356:VAL:HG21	1.96	0.47
31:1q:153:PHE:HE2	48:3F:107:VAL:HG21	1.78	0.47
22:1w:57:TYR:CD1	22:1w:60:LEU:HD21	2.50	0.47
22:1x:45:CYS:SG	22:1x:50:HIS:NE2	2.86	0.47
33:2H:74:ASN:HA	33:2H:80:PRO:HG2	1.95	0.47
34:2L:38:VAL:HG22	34:2L:130:CYS:HB3	1.96	0.47
38:2U:239:LEU:HD11	38:2U:260:ILE:HD13	1.95	0.47
41:2l:215:SER:OG	41:2l:218:ARG:NH2	2.48	0.47
44:2w:43:CYS:HB3	44:2w:52:TYR:CZ	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:3Q:351:GLY:HA2	49:3Q:354:LYS:HE3	1.96	0.47
49:3Q:360:GLY:O	52:3U:344:THR:OG1	2.22	0.47
49:3Q:476:TYR:OH	49:3Q:497:TRP:NE1	2.47	0.47
57:3g:69:MET:HE3	57:3g:69:MET:HB3	1.81	0.47
57:3h:72:GLN:O	57:3h:76:ARG:N	2.32	0.47
60:3s:72:MET:O	60:3s:75:ILE:HG22	2.14	0.47
68:5T:93:LEU:HD21	68:5T:119:TRP:CZ3	2.49	0.47
2:AA:202:THR:HG23	2:AA:270:THR:HG21	1.96	0.47
1:AB:8:GLN:HE21	1:AB:17:GLY:HA3	1.80	0.47
1:AB:85:PHE:HB2	1:AB:90:PHE:HE1	1.79	0.47
2:AC:169:TYR:HA	2:AC:202:THR:HB	1.97	0.47
1:AD:78:ALA:HB3	27:1S:172:LYS:NZ	2.28	0.47
2:AE:352:LYS:HD2	1:AF:177:ASP:O	2.14	0.47
2:AE:408:TYR:HB3	2:AE:413:MET:SD	2.54	0.47
1:AH:67:ASP:OD1	1:AH:143:THR:HG21	2.14	0.47
1:AH:211:CYS:HB3	1:AH:220:PRO:HB3	1.96	0.47
1:AJ:163:ILE:HD11	1:AJ:251:ARG:HG3	1.95	0.47
2:AK:142:GLY:CA	2:AK:183:GLU:HG3	2.45	0.47
2:AK:260:VAL:HB	1:AL:397:TRP:HZ2	1.80	0.47
2:AK:423:GLU:OE2	3:XE:108:TYR:OH	2.26	0.47
1:AL:6:SER:HA	1:AL:134:GLN:O	2.15	0.47
1:AL:247:ASN:H	2:AM:11:GLN:NE2	2.11	0.47
2:AM:430:LYS:HZ1	3:XF:102:ARG:HD3	1.80	0.47
1:AN:49:VAL:HG11	1:AN:241:ARG:HG2	1.97	0.47
1:AN:133:PHE:CD2	1:AN:155:LEU:HD13	2.49	0.47
1:B:282:ARG:HH22	1:B:292:GLN:NE2	2.13	0.47
2:BA:346:TRP:O	1:BB:388:MET:HG2	2.15	0.47
1:BB:148:GLY:O	1:BB:152:ILE:HG12	2.14	0.47
2:BC:83:TYR:HB3	2:BC:86:LEU:HB3	1.96	0.47
2:BC:142:GLY:CA	2:BC:183:GLU:HG3	2.44	0.47
2:BE:26:LEU:HD11	2:BE:363:VAL:HA	1.97	0.47
2:BE:229:ARG:NH1	2:BE:366:GLY:HA2	2.30	0.47
1:BF:58:ARG:NH2	1:BF:83:GLN:O	2.48	0.47
1:BF:248:SER:HA	1:BF:252:LYS:HG3	1.97	0.47
1:BF:305:PRO:HA	1:BF:373:CYS:SG	2.54	0.47
1:BH:232:VAL:HG11	1:BH:268:MET:HB3	1.96	0.47
2:BI:101:ASN:HA	2:BI:144:GLY:CA	2.45	0.47
2:BI:156:ARG:HG3	2:BI:156:ARG:HH11	1.80	0.47
2:BK:7:ILE:HG21	2:BK:153:LEU:HD21	1.97	0.47
2:BK:85:GLN:O	2:CJ:283:HIS:NE2	2.42	0.47
2:BK:194:LEU:O	2:BK:198:THR:CB	2.59	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BL:185:THR:O	1:BL:189:VAL:HG23	2.15	0.47
1:BL:256:ASN:O	1:BL:312:THR:HG21	2.15	0.47
1:BL:316:LEU:HB2	1:BL:366:THR:OG1	2.14	0.47
2:CB:21:TRP:CZ2	2:CB:65:CYS:HB3	2.50	0.47
1:CC:175:VAL:HG12	1:CC:175:VAL:O	2.15	0.47
2:CD:265:ILE:HG22	2:CD:380:ASN:HD21	1.79	0.47
1:CE:207:LEU:HB3	1:CE:225:LEU:CD1	2.44	0.47
1:CE:272:PRO:HB3	1:CE:282:ARG:HH21	1.79	0.47
2:CF:158:SER:HB2	2:CF:166:LYS:HZ1	1.78	0.47
2:CH:203:MET:HE3	2:CH:384:ILE:CD1	2.45	0.47
1:CI:170:ILE:HG21	1:CI:377:MET:CE	2.45	0.47
2:CL:166:LYS:H	2:CL:199:ASP:HB3	1.80	0.47
2:CL:372:GLN:HE22	24:1K:244:THR:HA	1.79	0.47
2:D:238:LEU:HA	2:D:318:MET:HG3	1.97	0.47
1:DC:377:MET:HA	1:DC:380:ARG:HG2	1.96	0.47
1:DE:189:VAL:O	1:DE:193:VAL:HG23	2.14	0.47
2:DF:392:ASP:HB3	2:DF:425:LEU:HD23	1.97	0.47
1:DI:41:ASP:O	1:DI:45:GLU:HG3	2.14	0.47
1:DM:330:MET:HG2	1:DM:349:ILE:HD13	1.96	0.47
2:EA:195:LEU:HD21	2:EA:264:ARG:NE	2.30	0.47
2:EE:212:LEU:HD21	2:EE:275:VAL:HG11	1.95	0.47
2:EG:182:VAL:HG22	2:EG:185:TYR:HB2	1.96	0.47
2:EG:220:GLU:HB2	2:EG:221:ARG:HH11	1.79	0.47
1:EH:404:ASP:OD1	1:EH:405:GLU:N	2.48	0.47
1:EL:152:ILE:O	1:EL:156:ARG:HG2	2.13	0.47
2:FA:200:VAL:HG23	2:FA:256:GLN:OE1	2.15	0.47
2:FC:67:PHE:HB2	2:FC:92:LEU:HD12	1.96	0.47
1:FD:272:PRO:HD2	1:FD:361:LEU:HD21	1.97	0.47
1:FF:242:PHE:HB2	1:FF:354:CYS:SG	2.55	0.47
2:FG:251:ASP:H	2:FG:254:GLU:HB3	1.79	0.47
2:FG:352:LYS:NZ	1:FH:99:ASN:HD21	2.12	0.47
1:FH:20:PHE:CD1	1:FH:233:MET:HB2	2.50	0.47
2:FI:65:CYS:H	2:FI:91:GLN:NE2	2.13	0.47
2:FI:345:ASP:OD1	2:FI:346:TRP:N	2.47	0.47
1:G:183:TYR:HD1	1:G:385:PHE:CE1	2.33	0.47
2:GA:188:VAL:HG13	2:GA:425:LEU:HD12	1.97	0.47
2:GA:225:THR:O	2:GA:229:ARG:HG3	2.14	0.47
2:GA:329:ASN:OD1	2:GA:330:ALA:N	2.48	0.47
1:GB:230:ALA:HA	1:GB:233:MET:HG2	1.96	0.47
1:GB:404:ASP:OD1	1:GB:405:GLU:N	2.48	0.47
1:GD:20:PHE:HA	1:GD:230:ALA:HB1	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GD:186:THR:HB	1:GD:408:PHE:CZ	2.50	0.47
1:GD:255:VAL:HG11	2:GE:100:ALA:O	2.15	0.47
1:GD:323:THR:HG21	2:GE:224:TYR:CD1	2.50	0.47
2:GE:142:GLY:CA	2:GE:183:GLU:HG3	2.45	0.47
1:GF:248:SER:HA	1:GF:252:LYS:HG3	1.97	0.47
1:GF:274:THR:HG21	1:GF:282:ARG:HD2	1.95	0.47
2:GG:182:VAL:HG23	2:GG:186:ASN:HD21	1.79	0.47
1:GH:2:ARG:N	1:GH:129:CYS:O	2.48	0.47
1:GJ:67:ASP:OD1	1:GJ:68:LEU:N	2.47	0.47
2:GK:264:ARG:NH2	2:GK:431:ASP:OD1	2.48	0.47
1:HB:113:ILE:HG13	1:HB:117:LEU:HD23	1.96	0.47
1:HB:133:PHE:CD1	1:HB:164:MET:HE1	2.49	0.47
2:HC:217:LEU:HD21	2:HC:275:VAL:HG22	1.96	0.47
2:HC:291:ILE:O	2:HC:295:VAL:HG23	2.15	0.47
1:HD:334:GLN:HG2	1:HD:349:ILE:HD12	1.95	0.47
2:HE:264:ARG:NH1	2:HE:431:ASP:OD1	2.46	0.47
1:HF:39:ASP:OD2	17:0n:280:TYR:OH	2.27	0.47
2:HG:328:VAL:HG21	2:HG:355:ILE:HD11	1.97	0.47
1:HH:109:GLY:HA2	1:HH:147:MET:HE1	1.96	0.47
2:HI:269:LEU:HD23	2:HI:301:MET:SD	2.55	0.47
2:HI:315:CYS:SG	2:HI:377:MET:HE1	2.54	0.47
1:HJ:46:ARG:NH2	2:HK:76:ASP:OD2	2.48	0.47
1:HJ:361:LEU:HD23	1:HJ:364:SER:HB2	1.96	0.47
2:HK:352:LYS:HE3	1:HL:178:THR:HG22	1.95	0.47
1:HL:185:THR:O	1:HL:189:VAL:HG23	2.14	0.47
1:HL:255:VAL:HG11	2:HM:100:ALA:O	2.15	0.47
2:HM:319:TYR:HD2	2:HM:323:VAL:HG21	1.80	0.47
1:I:325:GLU:HA	1:I:328:GLU:HG3	1.97	0.47
2:IA:402:ARG:H	2:IA:402:ARG:HH11	1.61	0.47
1:IB:189:VAL:O	1:IB:193:VAL:HG23	2.15	0.47
2:IC:147:SER:HB2	2:IC:190:SER:HB3	1.95	0.47
1:ID:36:TYR:CZ	1:ID:44:LEU:HB2	2.50	0.47
2:IE:7:ILE:O	2:IE:137:VAL:HA	2.15	0.47
2:IE:234:VAL:HG21	2:IE:302:LEU:HD11	1.96	0.47
2:IE:285:GLN:HG2	2:IE:285:GLN:O	2.14	0.47
2:IE:328:VAL:O	2:IE:332:ILE:HG12	2.14	0.47
1:IF:290:THR:HG22	1:IF:330:MET:HE2	1.96	0.47
2:IG:170:THR:HG23	2:IG:172:TYR:CE2	2.49	0.47
2:II:85:GLN:O	1:JI:281:TYR:OH	2.30	0.47
2:II:373:ARG:NH2	7:0D:191:LYS:O	2.43	0.47
2:IK:181:VAL:O	2:IK:398:MET:HE1	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IK:326:LYS:HE2	1:IL:220:PRO:CD	2.40	0.47
1:IL:51:PHE:HB3	1:IL:59:TYR:HB3	1.96	0.47
1:IL:260:PHE:HE1	2:IM:403:ALA:HA	1.80	0.47
1:IL:379:ARG:HH22	1:IL:423:GLN:NE2	2.12	0.47
1:JA:112:LEU:HD23	1:JA:116:VAL:HG23	1.97	0.47
1:JA:205:GLU:HB2	1:JA:302:ALA:HB2	1.96	0.47
1:JA:222:PHE:HD1	1:JA:225:LEU:HD12	1.80	0.47
1:JA:421:GLU:HA	1:JA:424:GLN:HG3	1.97	0.47
2:JB:361:THR:HG22	15:0f:67:PRO:HD3	1.97	0.47
1:JC:215:LEU:HD21	1:JC:273:LEU:HD12	1.97	0.47
1:JC:268:MET:O	1:JC:300:MET:HG2	2.14	0.47
1:JC:319:GLY:HA2	1:JC:357:PRO:HD3	1.96	0.47
2:JD:15:GLN:HB3	2:JD:228:ASN:ND2	2.29	0.47
1:JE:156:ARG:HH22	1:JE:197:ASP:CG	2.23	0.47
1:JE:309:ARG:H	1:JE:372:THR:HG1	1.60	0.47
2:JF:6:CYS:O	2:JF:65:CYS:HA	2.13	0.47
2:JH:60:LYS:HE3	2:KH:283:HIS:CD2	2.48	0.47
2:JH:430:LYS:HZ2	60:3s:75:ILE:HG23	1.80	0.47
1:JI:169:VAL:HA	1:JI:202:ILE:HB	1.97	0.47
2:JJ:165:SER:HB2	2:JJ:256:GLN:HE22	1.79	0.47
2:JL:53:PHE:HB3	2:JL:61:HIS:HB3	1.96	0.47
1:JM:164:MET:HA	1:JM:164:MET:HE2	1.97	0.47
1:JM:267:MET:N	1:JM:369:GLY:O	2.38	0.47
1:KA:186:THR:HG22	1:KA:411:ALA:HB1	1.97	0.47
1:KA:342:ILE:HG22	1:KA:345:ILE:H	1.79	0.47
2:KB:75:VAL:HG11	2:KB:94:SER:HB2	1.97	0.47
2:KB:326:LYS:HZ3	1:KC:220:PRO:HD2	1.79	0.47
1:KC:13:GLY:HA2	1:KC:16:ILE:HG22	1.97	0.47
2:KD:1:MET:HG2	2:KD:2:ARG:N	2.25	0.47
2:KD:104:ALA:HB2	2:KD:413:MET:SD	2.54	0.47
2:KD:297:GLU:HG3	2:KD:299:ALA:H	1.80	0.47
1:KE:337:ASN:HB3	1:KE:340:TYR:HB2	1.97	0.47
2:KF:241:SER:HB2	2:KF:318:MET:HE1	1.96	0.47
2:KH:109:THR:OG1	2:KH:411:GLU:OE2	2.20	0.47
2:KH:388:PHE:HA	2:KH:391:ILE:HG22	1.97	0.47
1:KI:66:MET:HE3	1:KI:116:VAL:HG21	1.96	0.47
1:KI:91:ILE:HG22	1:KI:112:LEU:HD21	1.97	0.47
2:KJ:21:TRP:CZ2	2:KJ:65:CYS:HB3	2.50	0.47
2:KL:90:GLU:OE1	2:KL:91:GLN:N	2.47	0.47
2:KL:123:ARG:HD3	2:KL:123:ARG:O	2.13	0.47
2:KN:33:ASP:OD2	2:KN:33:ASP:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:120:ASP:OD1	2:L:123:ARG:NH2	2.48	0.47
1:LA:236:VAL:HG13	1:LA:237:THR:HG23	1.97	0.47
1:LA:268:MET:HG3	1:LA:300:MET:HG3	1.97	0.47
2:LB:177:VAL:N	2:LB:207:GLU:OE2	2.47	0.47
2:LB:319:TYR:HB3	2:LB:323:VAL:HG21	1.97	0.47
2:LB:431:ASP:OD1	22:1w:143:GLY:HA3	2.15	0.47
1:LC:175:VAL:HG23	1:LC:205:GLU:OE1	2.14	0.47
2:LD:33:ASP:HA	2:LD:85:GLN:HB2	1.96	0.47
1:LE:202:ILE:HD12	1:LE:300:MET:HE2	1.97	0.47
1:LE:345:ILE:HG23	1:LE:348:ASN:ND2	2.29	0.47
1:LE:345:ILE:HG23	1:LE:348:ASN:HD21	1.80	0.47
2:LF:21:TRP:NE1	2:LF:65:CYS:SG	2.88	0.47
1:LG:350:LYS:NZ	1:LG:352:SER:OG	2.37	0.47
2:LH:318:MET:O	2:LH:375:VAL:HA	2.15	0.47
1:LI:172:SER:OG	1:LI:205:GLU:OE1	2.31	0.47
2:LJ:334:THR:HG21	35:2O:107:VAL:HA	1.97	0.47
1:LK:287:ALA:HB2	35:2O:122:LYS:HA	1.96	0.47
2:LL:172:TYR:CE1	2:LL:203:MET:HG3	2.49	0.47
2:LL:326:LYS:HZ1	1:LM:220:PRO:C	2.21	0.47
2:LL:340:THR:HB	35:2O:138:GLU:OE2	2.15	0.47
1:LM:256:ASN:HD21	2:LN:101:ASN:HD22	1.63	0.47
1:LM:327:ASP:OD2	2:LN:177:VAL:HG13	2.14	0.47
1:LM:334:GLN:NE2	1:LM:348:ASN:HB2	2.29	0.47
1:LO:267:MET:HE3	1:LO:374:ILE:HG12	1.97	0.47
1:M:248:SER:HA	1:M:252:LYS:HD2	1.96	0.47
1:M:347:ASN:HB3	2:MA:178:SER:OG	2.14	0.47
2:MA:122:ILE:HG21	2:MA:157:LEU:HD21	1.95	0.47
2:MA:147:SER:HB2	2:MA:190:SER:HB3	1.96	0.47
2:MA:395:PHE:CD2	2:MA:422:ARG:HD3	2.50	0.47
2:MC:293:ASN:O	2:MC:297:GLU:HG2	2.15	0.47
1:MD:208:TYR:CE1	1:MD:225:LEU:HD11	2.49	0.47
1:MD:324:LYS:HE2	2:ME:222:PRO:HD2	1.97	0.47
1:MD:324:LYS:HZ1	2:ME:210:TYR:HB3	1.80	0.47
2:ME:434:GLU:OE1	33:2G:146:HIS:HA	2.15	0.47
1:MF:150:LEU:O	1:MF:154:LYS:HG3	2.15	0.47
1:MF:174:ARG:HD3	1:MF:174:ARG:H	1.78	0.47
1:MF:175:VAL:CG2	1:MF:205:GLU:HB2	2.39	0.47
1:MH:34:GLY:HA3	1:MH:58:ARG:HG3	1.95	0.47
1:MJ:222:PHE:HE2	69:MJ:500:GDP:C6	2.33	0.47
1:MJ:416:ASN:HA	1:MJ:419:VAL:HG12	1.96	0.47
1:ML:232:VAL:HG13	1:ML:268:MET:HE2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ML:270:PHE:O	1:ML:298:ASN:ND2	2.37	0.47
1:N:326:VAL:HG11	1:N:353:ILE:HD11	1.96	0.47
2:NA:431:ASP:OD1	2:NA:432:TYR:N	2.48	0.47
1:NB:163:ILE:HG12	1:NB:250:LEU:HB3	1.96	0.47
2:NC:21:TRP:CZ2	2:NC:65:CYS:HB3	2.50	0.47
2:NC:150:GLY:O	2:NC:154:LEU:HD23	2.14	0.47
2:NC:414:GLU:HG3	2:NC:416:GLY:H	1.78	0.47
1:ND:46:ARG:O	1:ND:49:VAL:HG12	2.15	0.47
1:ND:215:LEU:HD11	1:ND:273:LEU:HD22	1.96	0.47
1:ND:324:LYS:NZ	2:NE:222:PRO:HB2	2.29	0.47
2:NE:68:LEU:HD11	2:NE:118:ALA:HB2	1.97	0.47
1:NF:109:GLY:HA2	1:NF:147:MET:HE2	1.96	0.47
1:NH:246:LEU:HD13	2:NI:179:THR:HG21	1.97	0.47
1:NH:326:VAL:O	1:NH:330:MET:HE2	2.15	0.47
2:NI:188:VAL:O	2:NI:191:THR:HG22	2.15	0.47
1:NJ:65:LEU:HB3	1:NJ:73:MET:HE1	1.96	0.47
1:NJ:272:PRO:HD3	1:NJ:364:SER:HA	1.96	0.47
2:NK:105:ARG:HD3	2:NK:109:THR:OG1	2.15	0.47
2:NM:203:MET:HG3	2:NM:384:ILE:HD11	1.95	0.47
2:OA:49:PHE:HE1	2:OA:61:HIS:CD2	2.33	0.47
2:OA:79:ARG:NH2	2:OA:94:SER:OG	2.36	0.47
1:OB:175:VAL:O	1:OB:175:VAL:HG12	2.15	0.47
1:OB:351:SER:H	2:OC:179:THR:HG23	1.79	0.47
1:OD:58:ARG:HH12	1:PD:280:GLN:NE2	2.13	0.47
2:OE:3:GLU:HA	2:OE:51:THR:HA	1.95	0.47
2:OE:167:LEU:HD21	2:OE:255:PHE:HZ	1.79	0.47
2:OE:262:TYR:HB2	2:OE:265:ILE:HG12	1.96	0.47
2:OE:335:ILE:HG23	2:OE:341:ILE:HD11	1.96	0.47
2:OG:68:LEU:HG	2:OG:149:LEU:HD21	1.96	0.47
2:OG:77:GLU:HA	2:OG:80:THR:HG22	1.95	0.47
2:OG:175:PRO:HB3	2:OG:390:ARG:HD3	1.97	0.47
1:OH:159:TYR:HB3	1:OH:162:ARG:HG3	1.96	0.47
1:OH:392:LYS:C	1:OH:395:LEU:HD23	2.40	0.47
2:OI:93:VAL:HG11	2:OI:117:LEU:HD11	1.97	0.47
1:OJ:3:GLU:O	1:OJ:131:GLN:N	2.44	0.47
2:OK:28:HIS:NE2	2:OK:243:ARG:HD2	2.29	0.47
1:OL:5:VAL:HG12	1:OL:130:LEU:HD11	1.96	0.47
1:OL:263:LEU:O	1:OL:370:ASN:ND2	2.47	0.47
2:OM:214:ARG:NH1	2:OM:220:GLU:O	2.48	0.47
2:OM:311:LYS:HG3	2:OM:342:GLN:HG2	1.96	0.47
2:OM:332:ILE:HG22	2:OM:336:LYS:HZ3	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PA:75:VAL:O	2:PA:79:ARG:HG3	2.13	0.47
2:PA:312:TYR:HD1	2:PA:381:SER:HB2	1.79	0.47
2:PA:328:VAL:O	2:PA:332:ILE:HG12	2.14	0.47
2:PC:211:ASP:O	2:PC:215:ARG:HD3	2.14	0.47
2:PE:79:ARG:NH2	2:PE:92:LEU:O	2.48	0.47
2:PE:178:SER:OG	2:PE:183:GLU:OE1	2.27	0.47
1:PF:200:MET:HE1	1:PF:236:VAL:HG21	1.96	0.47
1:PF:337:ASN:HB3	1:PF:340:TYR:HD2	1.80	0.47
1:PF:345:ILE:HG23	1:PF:348:ASN:ND2	2.30	0.47
1:PH:208:TYR:CE1	1:PH:225:LEU:HD11	2.49	0.47
1:PH:332:ASN:O	1:PH:336:LYS:HG3	2.15	0.47
2:PI:90:GLU:O	2:PI:91:GLN:HB3	2.15	0.47
2:PI:237:SER:HA	2:PI:320:ARG:HD2	1.95	0.47
1:PJ:314:SER:OG	1:PJ:368:ILE:HB	2.14	0.47
1:PL:199:SER:O	1:PL:266:PHE:N	2.39	0.47
1:PL:267:MET:HE3	1:PL:299:MET:HE2	1.97	0.47
2:PM:218:ASP:HB2	2:PM:280:LYS:NZ	2.30	0.47
2:QB:219:ILE:HD11	2:QB:222:PRO:HB3	1.97	0.47
1:QE:323:THR:HA	1:QE:326:VAL:HG12	1.97	0.47
2:QF:346:TRP:CD1	1:QG:391:ARG:HG3	2.49	0.47
2:QH:84:ARG:HB2	2:QH:84:ARG:NH1	2.30	0.47
2:QH:205:ASP:OD1	2:QH:303:THR:HA	2.15	0.47
1:QI:101:TRP:CE3	1:QI:187:LEU:HD23	2.50	0.47
1:QI:207:LEU:HD13	1:QI:225:LEU:HB3	1.97	0.47
1:QI:371:ASN:OD1	1:QI:372:THR:N	2.47	0.47
1:QK:257:LEU:HB3	1:QK:266:PHE:HE2	1.80	0.47
2:QL:9:ILE:HG22	2:QL:146:GLY:HA2	1.96	0.47
2:QL:138:PHE:CE2	2:QL:235:VAL:HG11	2.47	0.47
2:QL:317:LEU:O	2:QL:318:MET:HE2	2.14	0.47
2:R:269:LEU:HD23	2:R:379:ALA:O	2.15	0.47
2:R:395:PHE:CE2	2:R:422:ARG:HD3	2.48	0.47
2:RB:205:ASP:OD1	2:RB:303:THR:HA	2.15	0.47
2:RB:270:THR:HG23	2:RB:302:LEU:HB2	1.97	0.47
1:RC:406:MET:O	1:RC:410:GLU:HG2	2.15	0.47
2:RD:251:ASP:H	2:RD:254:GLU:HB2	1.78	0.47
2:RD:291:ILE:O	2:RD:295:VAL:HG23	2.14	0.47
2:RF:65:CYS:H	2:RF:91:GLN:NE2	2.13	0.47
2:RF:195:LEU:HD21	2:RF:428:LEU:HD13	1.96	0.47
1:RG:66:MET:SD	1:RG:116:VAL:HG11	2.55	0.47
1:RG:151:LEU:HD12	1:RG:155:LEU:CD1	2.44	0.47
1:RG:189:VAL:HG11	1:RG:415:MET:SD	2.54	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RI:344:TRP:H	1:RI:344:TRP:CD1	2.32	0.47
2:RJ:89:PRO:HD2	2:RJ:90:GLU:H	1.79	0.47
1:RK:33:THR:HG23	1:RK:35:THR:HG22	1.95	0.47
1:RK:309:ARG:HD2	1:RK:342:ILE:HG22	1.96	0.47
2:RL:244:PHE:HB2	2:RL:356:ASN:HD21	1.79	0.47
1:S:19:LYS:NZ	1:S:223:GLY:O	2.47	0.47
1:S:180:VAL:HG22	1:S:183:TYR:HB2	1.97	0.47
2:SA:136:MET:HG2	2:SA:167:LEU:HB2	1.97	0.47
2:SA:139:HIS:CE1	2:SA:194:LEU:HD21	2.49	0.47
2:SA:270:THR:HA	2:SA:377:MET:O	2.14	0.47
2:SA:331:ALA:O	2:SA:335:ILE:HG12	2.15	0.47
1:SB:290:THR:HG21	1:SB:329:GLN:HG2	1.95	0.47
1:SB:299:MET:HE1	1:SB:367:PHE:CD1	2.49	0.47
1:SD:18:SER:O	1:SD:22:GLU:HG3	2.14	0.47
2:SE:382:THR:HG21	2:SE:436:GLY:HA3	1.96	0.47
2:SG:71:GLU:OE1	2:SG:73:THR:HG22	2.15	0.47
2:SI:142:GLY:CA	2:SI:183:GLU:HG3	2.43	0.47
1:SJ:286:VAL:HG21	2:SK:221:ARG:HH22	1.79	0.47
1:SJ:386:THR:HG23	1:SJ:390:ARG:HH12	1.80	0.47
1:SJ:396:HIS:HB2	57:3h:154:VAL:HG21	1.97	0.47
2:TA:132:LEU:HD11	2:TA:164:LYS:HD3	1.97	0.47
2:TA:152:LEU:O	2:TA:156:ARG:HG2	2.14	0.47
1:TB:67:ASP:O	1:TB:92:PHE:HA	2.14	0.47
2:TC:201:ALA:HB3	2:TC:267:PHE:HD1	1.79	0.47
2:TC:216:SER:OG	2:TC:275:VAL:O	2.26	0.47
1:TD:107:THR:OG1	1:TD:401:GLU:OE2	2.29	0.47
1:TD:316:LEU:HD23	1:TD:352:SER:OG	2.15	0.47
1:TD:342:ILE:HD12	1:TD:344:TRP:NE1	2.30	0.47
2:TE:326:LYS:HG3	2:TE:327:ASP:N	2.29	0.47
1:TF:257:LEU:HA	1:TF:312:THR:HG21	1.96	0.47
1:TF:324:LYS:HD2	2:TG:222:PRO:HD2	1.97	0.47
1:TH:173:PRO:HA	1:TH:176:SER:HB2	1.96	0.47
2:TI:156:ARG:HA	2:TI:159:VAL:HG12	1.97	0.47
1:TJ:72:THR:O	1:TJ:75:SER:OG	2.24	0.47
1:TJ:265:PHE:HB3	1:TJ:374:ILE:HD13	1.97	0.47
1:TL:86:ARG:HA	1:TL:86:ARG:NH1	2.30	0.47
1:TL:193:VAL:HG22	1:TL:265:PHE:HE1	1.78	0.47
1:TL:237:THR:O	1:TL:241:ARG:HG3	2.14	0.47
1:U:268:MET:HE1	1:U:368:ILE:HG12	1.96	0.47
2:UA:292:THR:HG21	2:UA:331:ALA:HB1	1.97	0.47
1:UB:36:TYR:OH	1:UB:40:SER:O	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:UC:345:ASP:N	2:UC:345:ASP:OD1	2.47	0.47
1:UD:173:PRO:HG3	1:UD:384:GLN:OE1	2.15	0.47
1:UF:125:GLU:HG2	1:VF:336:LYS:NZ	2.30	0.47
2:UG:89:PRO:HB3	62:4B:254:PRO:HG2	1.97	0.47
1:UH:200:MET:SD	1:UH:268:MET:HE3	2.53	0.47
1:UH:350:LYS:HA	2:UI:179:THR:O	2.14	0.47
2:UK:122:ILE:HG21	2:UK:157:LEU:HD21	1.96	0.47
2:UK:313:MET:HE1	2:UK:435:VAL:HG22	1.97	0.47
1:UL:9:ALA:HB2	1:UL:66:MET:HE3	1.96	0.47
1:UL:10:GLY:HA2	1:UL:143:THR:HG23	1.96	0.47
1:UL:296:ALA:HA	1:UL:299:MET:HG2	1.97	0.47
1:VB:40:SER:HA	9:0L:507:GLN:NE2	2.30	0.47
2:VC:275:VAL:O	2:VC:275:VAL:HG13	2.14	0.47
1:VD:19:LYS:HG3	1:VD:226:ASN:HB2	1.96	0.47
1:VF:133:PHE:CD1	1:VF:155:LEU:HD23	2.50	0.47
1:VH:178:THR:HG1	1:VH:181:GLU:HG3	1.79	0.47
2:VI:75:VAL:HG11	2:VI:94:SER:HB2	1.97	0.47
2:VI:141:VAL:HB	2:VI:190:SER:OG	2.14	0.47
2:VI:184:PRO:HA	2:VI:391:ILE:HD11	1.96	0.47
2:VI:214:ARG:NH1	2:VI:220:GLU:OE2	2.48	0.47
2:VI:253:THR:O	2:VI:256:GLN:HG2	2.15	0.47
2:VI:269:LEU:HD13	2:VI:301:MET:HE1	1.97	0.47
2:VI:276:VAL:HB	2:VI:280:LYS:HB2	1.96	0.47
2:VI:295:VAL:HG12	2:VI:377:MET:HE2	1.96	0.47
1:VJ:204:ASN:OD1	69:VJ:500:GDP:O2'	2.30	0.47
1:VL:28:HIS:HA	1:VL:43:GLN:HG2	1.96	0.47
2:VM:227:VAL:O	2:VM:231:ILE:HG12	2.14	0.47
2:VM:269:LEU:HD21	2:VM:384:ILE:HG12	1.96	0.47
2:VM:275:VAL:O	2:VM:275:VAL:HG13	2.15	0.47
1:WB:111:GLU:OE2	4:XM:140:SER:HB3	2.15	0.47
1:WB:299:MET:HG3	1:WB:301:GLN:H	1.79	0.47
1:WD:238:CYS:SG	1:WD:239:CYS:N	2.87	0.47
1:WD:253:LEU:HD21	1:WD:316:LEU:HD21	1.97	0.47
1:WD:379:ARG:HH12	1:WD:423:GLN:NE2	2.13	0.47
2:WE:75:VAL:HG12	2:WE:79:ARG:HE	1.79	0.47
2:WE:295:VAL:HG21	2:WE:375:VAL:HG13	1.96	0.47
2:WG:263:PRO:HD3	1:WH:396:HIS:CD2	2.50	0.47
1:WH:19:LYS:HA	1:WH:22:GLU:HB2	1.96	0.47
2:WI:286:LEU:O	2:WI:373:ARG:NH1	2.43	0.47
1:WJ:65:LEU:C	1:WJ:73:MET:HE1	2.40	0.47
1:WJ:175:VAL:O	1:WJ:175:VAL:HG12	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:WL:219:THR:OG1	14:0d:317:ARG:NE	2.47	0.47
1:WL:262:ARG:NH1	1:WL:421:GLU:OE2	2.39	0.47
2:WM:247:ALA:HB3	2:WM:355:ILE:HB	1.97	0.47
2:WM:388:PHE:HA	2:WM:391:ILE:HG22	1.96	0.47
3:XC:73:LEU:HB2	3:XC:167:PHE:HB3	1.97	0.47
3:XC:169:ASP:OD1	3:XC:169:ASP:N	2.47	0.47
3:XD:101:ARG:HD2	3:XD:144:TYR:CZ	2.50	0.47
3:XE:169:ASP:N	3:XE:169:ASP:OD1	2.46	0.47
5:XN:220:HIS:HD2	5:XN:223:VAL:H	1.62	0.47
5:XP:80:ILE:HG13	32:2C:78:TYR:HB2	1.97	0.47
5:XP:143:LEU:HD12	5:XP:153:LEU:HD13	1.97	0.47
4:XR:122:GLU:OE1	4:XR:161:ILE:HD12	2.15	0.47
6:0:49:VAL:HG23	6:0:130:ILE:HG23	1.95	0.47
7:0D:362:ASP:HA	7:0D:365:GLN:HG3	1.95	0.47
8:0H:454:ILE:O	8:0H:457:ARG:HG2	2.14	0.47
8:0J:447:ARG:HD2	39:2X:296:ILE:HG23	1.96	0.47
9:0L:169:ILE:HG13	9:0L:178:VAL:HG22	1.97	0.47
9:0L:506:ARG:NE	9:0L:532:VAL:HG21	2.30	0.47
9:0N:352:ASN:HD22	9:0N:353:ALA:H	1.61	0.47
9:0N:484:ALA:HB1	9:0N:510:PHE:HB3	1.97	0.47
9:0O:283:VAL:HG12	9:0O:316:VAL:HG11	1.95	0.47
10:0R:68:LEU:HA	10:0R:71:ARG:HD3	1.96	0.47
10:0S:263:ILE:O	10:0S:266:ASN:HB2	2.15	0.47
11:0U:124:ILE:HD11	11:0U:145:LEU:HD23	1.97	0.47
15:0f:78:MET:HE3	15:0f:78:MET:HA	1.97	0.47
16:0k:135:PHE:O	16:0k:138:MET:HG3	2.15	0.47
16:0k:433:THR:HG22	16:0k:474:GLU:HB3	1.96	0.47
16:0k:692:LEU:HB3	16:0k:697:MET:HG3	1.97	0.47
16:0k:784:VAL:HA	16:0k:811:LEU:HD21	1.96	0.47
16:0k:839:TYR:N	16:0k:840:PRO:HD2	2.29	0.47
17:0n:203:GLU:OE2	17:0n:206:ARG:NH2	2.48	0.47
17:0n:261:ARG:O	17:0n:264:GLU:HG2	2.15	0.47
18:0p:198:ARG:NH1	18:0p:210:MET:HE2	2.29	0.47
23:1B:332:LEU:HD21	44:2w:52:TYR:CE1	2.49	0.47
23:1E:330:TRP:CH2	29:1k:182:ARG:HD2	2.49	0.47
23:1F:342:ASN:HB3	23:1F:346:ARG:HH12	1.79	0.47
24:1I:274:LEU:HD22	24:1I:287:PHE:HD2	1.78	0.47
24:1J:339:THR:HG23	24:1J:341:GLU:H	1.79	0.47
24:1K:437:GLU:HA	24:1K:437:GLU:OE2	2.14	0.47
26:1Q:172:ASP:OD2	26:1Q:173:ALA:N	2.47	0.47
26:1Q:448:TYR:OH	26:1Q:483:ASP:O	2.25	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:1S:337:PRO:HA	27:1S:368:TYR:HD1	1.79	0.47
27:1T:686:TYR:OH	27:1T:714:PRO:O	2.18	0.47
28:1a:252:ILE:HB	28:1b:19:VAL:CG2	2.44	0.47
31:1q:27:TYR:HA	31:1q:31:ILE:HB	1.96	0.47
31:1r:138:CYS:SG	31:1r:142:LYS:HE3	2.55	0.47
32:2B:27:GLU:HA	32:2B:30:ARG:HG2	1.96	0.47
32:2B:137:ASP:OD1	32:2B:141:ARG:NH1	2.48	0.47
33:2F:164:LYS:HB3	33:2F:275:SER:HA	1.96	0.47
33:2G:142:ASP:OD1	33:2G:143:GLU:N	2.42	0.47
33:2G:191:GLN:HG2	33:2G:193:PRO:HD3	1.95	0.47
33:2G:249:CYS:HB2	33:2G:276:SER:HB2	1.96	0.47
33:2G:266:SER:OG	33:2G:270:THR:OG1	2.24	0.47
33:2I:92:TYR:CZ	33:2I:112:TYR:HB3	2.49	0.47
34:2L:57:ILE:O	34:2L:61:ILE:HG13	2.14	0.47
35:2O:5:ARG:HH11	35:2O:7:GLU:HB3	1.79	0.47
35:2O:21:ARG:NH2	51:X1:187:GLN:H	2.11	0.47
37:2S:97:ARG:O	37:2S:101:ASN:ND2	2.48	0.47
37:2S:216:ASP:N	37:2S:216:ASP:OD1	2.46	0.47
40:2Z:129:SER:HA	40:2Z:132:LYS:HE3	1.96	0.47
40:2Z:249:TYR:HH	40:2Z:270:TRP:NE1	2.11	0.47
41:2h:161:TYR:O	41:2h:165:ARG:HG2	2.14	0.47
41:2h:305:TYR:HA	41:2h:308:ARG:HD3	1.96	0.47
41:2o:408:LYS:HE3	41:2o:412:ARG:HH12	1.79	0.47
41:2p:447:ARG:O	41:2p:448:SER:C	2.57	0.47
42:2r:341:ARG:HH12	42:2r:372:ASP:HA	1.78	0.47
43:2t:177:LEU:HD21	43:2t:189:ALA:HB3	1.97	0.47
44:2w:171:ARG:HD3	44:2w:176:GLU:OE2	2.15	0.47
46:3B:173:GLN:O	46:3B:177:SER:HB3	2.15	0.47
47:3D:289:ASN:HB3	47:3D:292:ARG:HG3	1.96	0.47
48:3F:101:ASP:O	48:3F:105:GLU:OE1	2.32	0.47
49:3P:328:ARG:N	49:3P:478:ASP:OD2	2.48	0.47
49:3P:503:SER:HB2	49:3P:506:LEU:HD23	1.97	0.47
49:3Q:18:TRP:O	49:3Q:22:ILE:HG23	2.14	0.47
53:3W:223:MET:HB2	53:3W:226:ALA:HB2	1.96	0.47
55:3b:67:VAL:O	55:3b:70:GLN:HG3	2.15	0.47
57:3f:114:ASP:O	57:3f:118:ARG:N	2.37	0.47
57:3h:61:GLU:OE2	57:3h:64:ARG:NH2	2.47	0.47
57:3h:99:MET:HA	57:3h:99:MET:HE3	1.97	0.47
57:3i:180:ARG:NE	57:3i:180:ARG:HA	2.30	0.47
58:3m:183:SER:HB2	58:3m:193:LEU:HD11	1.96	0.47
59:3p:106:THR:HG22	59:3p:108:SER:H	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:5C:96:GLU:HA	64:5C:99:LYS:HD2	1.95	0.47
66:5K:120:GLU:HB3	66:5K:122:PHE:CE1	2.50	0.47
67:5O:52:PHE:HZ	67:5O:67:ILE:HG13	1.80	0.47
67:5O:76:SER:OG	67:5O:77:LYS:N	2.43	0.47
1:A:86:ARG:HD2	1:B:281:TYR:HB3	1.97	0.47
1:A:102:ALA:HB1	1:A:401:GLU:HB2	1.96	0.47
1:A:110:ALA:O	1:A:113:ILE:HG22	2.15	0.47
2:AC:7:ILE:HG21	2:AC:153:LEU:HD21	1.97	0.47
1:AD:252:LYS:O	1:AD:256:ASN:ND2	2.48	0.47
2:AG:251:ASP:N	2:AG:254:GLU:HB2	2.30	0.47
1:AH:178:THR:HG22	1:AH:179:VAL:H	1.80	0.47
2:AI:253:THR:HA	2:AI:256:GLN:HB3	1.96	0.47
1:AJ:156:ARG:HH22	1:AJ:197:ASP:CG	2.23	0.47
1:AJ:189:VAL:O	1:AJ:193:VAL:HG23	2.15	0.47
2:AK:139:HIS:CE1	2:AK:170:THR:HG22	2.50	0.47
2:AK:224:TYR:HA	2:AK:227:VAL:HG22	1.95	0.47
2:AK:250:VAL:HA	2:AK:254:GLU:HG2	1.95	0.47
1:AL:112:LEU:O	1:AL:116:VAL:HG23	2.15	0.47
2:AM:93:VAL:HG12	2:AM:114:ILE:HD11	1.96	0.47
2:AM:175:PRO:HB3	2:AM:390:ARG:CZ	2.45	0.47
1:AN:41:ASP:O	1:AN:45:GLU:HG3	2.15	0.47
1:AN:113:ILE:HG21	1:AN:154:LYS:HE3	1.95	0.47
1:B:192:LEU:O	1:B:196:SER:HB3	2.15	0.47
2:BC:7:ILE:HB	2:BC:137:VAL:HG12	1.96	0.47
2:BC:9:ILE:HD12	2:BC:68:LEU:HD23	1.96	0.47
2:BC:120:ASP:O	2:BC:123:ARG:HG3	2.15	0.47
2:BC:318:MET:HA	2:BC:318:MET:HE3	1.96	0.47
2:BE:90:GLU:HB2	2:BE:121:ARG:NH1	2.29	0.47
1:BH:279:GLN:OE1	25:1O:119:SER:HB2	2.15	0.47
1:BN:63:ALA:O	1:BN:89:ASN:ND2	2.42	0.47
1:CC:324:LYS:HE3	2:CD:222:PRO:HD2	1.97	0.47
2:CD:186:ASN:OD1	2:CD:408:TYR:OH	2.30	0.47
2:CD:241:SER:HG	2:CD:250:VAL:H	1.58	0.47
1:CE:22:GLU:OE1	26:1Q:307:LEU:HD21	2.15	0.47
1:CE:170:ILE:N	1:CE:202:ILE:O	2.45	0.47
1:CE:246:LEU:HD22	1:CE:352:SER:HA	1.97	0.47
1:CG:318:ARG:HE	1:CG:318:ARG:HB3	1.55	0.47
2:CH:9:ILE:HG22	2:CH:146:GLY:HA2	1.97	0.47
1:CI:181:GLU:O	1:CI:185:THR:HG22	2.15	0.47
2:CJ:21:TRP:CZ2	2:CJ:65:CYS:HB3	2.50	0.47
2:CJ:75:VAL:HG11	2:CJ:94:SER:HB2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CK:66:MET:HB3	1:CK:147:MET:HE2	1.97	0.47
1:DA:323:THR:HG22	2:DB:223:SER:HA	1.96	0.47
2:DB:175:PRO:HB3	2:DB:390:ARG:NE	2.29	0.47
1:DC:215:LEU:HD21	1:DC:273:LEU:HD22	1.96	0.47
2:DD:313:MET:HE3	2:DD:346:TRP:HZ2	1.79	0.47
2:DF:258:ASN:HD21	1:DG:99:ASN:HD22	1.63	0.47
1:DI:379:ARG:HB3	1:DI:419:VAL:HG21	1.97	0.47
2:DL:201:ALA:O	2:DL:268:VAL:HG22	2.14	0.47
1:DM:150:LEU:O	1:DM:154:LYS:HG2	2.14	0.47
1:DM:309:ARG:NH2	1:DM:426:GLN:O	2.48	0.47
1:E:68:LEU:HD21	1:E:147:MET:HE3	1.95	0.47
2:EC:8:HIS:HB3	2:EC:13:GLY:O	2.15	0.47
1:EF:256:ASN:C	1:EF:257:LEU:HD12	2.39	0.47
1:EH:273:LEU:HB2	1:EH:292:GLN:HE22	1.79	0.47
1:EH:344:TRP:HB3	1:EH:430:VAL:HG12	1.97	0.47
1:EJ:178:THR:HB	1:EJ:181:GLU:HG3	1.96	0.47
1:EJ:249:ASP:H	1:EJ:252:LYS:CB	2.26	0.47
2:EK:422:ARG:NH1	2:EK:426:ALA:HB2	2.29	0.47
1:EL:73:MET:HG3	1:EL:92:PHE:HB3	1.97	0.47
1:EL:267:MET:HE1	1:EL:371:ASN:HB3	1.97	0.47
1:F:164:MET:HB3	1:F:197:ASP:H	1.80	0.47
2:FA:392:ASP:OD1	2:FA:393:HIS:N	2.47	0.47
1:FB:272:PRO:HD3	1:FB:364:SER:HA	1.97	0.47
2:FC:119:LEU:HD11	2:FC:156:ARG:HB3	1.97	0.47
2:FE:334:THR:O	2:FE:338:LYS:CB	2.58	0.47
2:FG:205:ASP:OD1	2:FG:303:THR:HA	2.15	0.47
2:FG:297:GLU:OE1	63:4I:250:GLY:N	2.33	0.47
2:FG:318:MET:O	2:FG:375:VAL:HA	2.15	0.47
1:FL:27:GLU:HA	1:FL:359:LYS:HE3	1.96	0.47
2:GC:56:THR:HG22	2:GC:58:ALA:H	1.79	0.47
2:GG:216:SER:OG	2:GG:275:VAL:O	2.26	0.47
1:GH:285:SER:OG	1:GH:288:GLU:OE1	2.23	0.47
2:GI:98:ASP:N	2:GI:98:ASP:OD1	2.47	0.47
2:GI:136:MET:HE3	2:GI:167:LEU:HD12	1.96	0.47
1:HB:320:ARG:NH2	38:2U:270:PHE:O	2.35	0.47
2:HE:151:ALA:O	2:HE:155:GLU:HG3	2.15	0.47
1:HF:35:THR:OG1	1:HF:37:GLN:NE2	2.36	0.47
2:HG:27:GLU:OE1	2:HG:243:ARG:NH2	2.48	0.47
2:HG:377:MET:HE2	2:HG:377:MET:HA	1.97	0.47
1:HH:139:LEU:HA	1:HH:145:SER:HB3	1.97	0.47
2:HI:396:ASP:CG	2:HI:422:ARG:HE	2.22	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HL:288:GLU:O	1:HL:291:GLN:HG3	2.14	0.47
1:HL:306:ARG:HA	1:HL:340:TYR:CE2	2.49	0.47
1:I:167:PHE:CE1	1:I:200:MET:HE3	2.50	0.47
1:IB:7:CYS:HB2	1:IB:135:LEU:HD13	1.96	0.47
1:IB:167:PHE:HA	1:IB:200:MET:HB3	1.97	0.47
1:IF:22:GLU:HG2	1:IF:81:TYR:CD1	2.49	0.47
2:IG:21:TRP:NE1	2:IG:65:CYS:SG	2.88	0.47
1:IH:139:LEU:HG	1:IH:168:SER:HB2	1.96	0.47
2:IM:265:ILE:HG13	2:IM:432:TYR:CE1	2.50	0.47
2:JB:21:TRP:CZ2	2:JB:65:CYS:HB3	2.50	0.47
1:JE:273:LEU:H	1:JE:292:GLN:HE22	1.63	0.47
2:JF:273:ALA:HB3	2:JF:295:VAL:HG23	1.97	0.47
2:JH:324:VAL:HG12	2:JH:326:LYS:H	1.79	0.47
2:JH:326:LYS:HZ1	1:JI:220:PRO:HD2	1.76	0.47
1:JI:63:ALA:O	1:JI:89:ASN:ND2	2.36	0.47
2:JL:22:GLU:O	2:JL:26:LEU:HD23	2.14	0.47
2:JL:136:MET:HE2	2:JL:169:TYR:HE2	1.80	0.47
2:JL:240:ALA:O	2:JL:356:ASN:ND2	2.48	0.47
2:JL:371:VAL:HG22	2:JL:373:ARG:H	1.80	0.47
2:JN:127:ASP:N	2:JN:127:ASP:OD1	2.48	0.47
2:K:395:PHE:HE2	2:K:422:ARG:HB2	1.80	0.47
1:KA:301:GLN:NE2	1:KA:302:ALA:H	2.12	0.47
2:KB:194:LEU:O	2:KB:266:HIS:NE2	2.38	0.47
1:KC:299:MET:HE3	1:KC:299:MET:HA	1.96	0.47
1:KG:225:LEU:O	1:KG:229:VAL:HG23	2.15	0.47
1:KG:313:ALA:HB1	1:KG:367:PHE:CE1	2.50	0.47
1:KK:256:ASN:ND2	2:KL:101:ASN:HD22	2.12	0.47
2:LB:267:PHE:HE2	2:LB:428:LEU:HD21	1.80	0.47
1:LC:68:LEU:HD12	1:LC:97:ALA:HB2	1.96	0.47
1:LC:83:GLN:OE1	27:1S:63:PHE:HD2	1.97	0.47
2:LD:75:VAL:HG11	2:LD:94:SER:HB2	1.95	0.47
2:LD:352:LYS:HD2	1:LE:177:ASP:O	2.15	0.47
2:LD:393:HIS:CD2	31:1q:48:PRO:HD2	2.50	0.47
2:LH:75:VAL:HG21	2:LH:94:SER:HB2	1.97	0.47
2:LH:259:LEU:HD21	2:LH:268:VAL:HG11	1.97	0.47
2:LH:328:VAL:O	2:LH:332:ILE:HG12	2.15	0.47
1:LI:293:MET:HE1	1:LI:315:ALA:HB2	1.97	0.47
2:LJ:31:GLN:HG2	2:LJ:37:PRO:HD3	1.96	0.47
2:LJ:114:ILE:HD12	2:LJ:117:LEU:HD21	1.96	0.47
2:LJ:191:THR:HB	2:LJ:425:LEU:HD21	1.97	0.47
1:LK:247:ASN:H	2:LL:11:GLN:HE22	1.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LL:1:MET:HE3	2:LL:1:MET:HA	1.96	0.47
2:MC:1:MET:HE2	2:MC:1:MET:HA	1.96	0.47
2:MC:66:LEU:HD13	2:MC:122:ILE:HG12	1.97	0.47
1:MD:200:MET:SD	1:MD:200:MET:N	2.77	0.47
1:MD:371:ASN:OD1	1:MD:372:THR:N	2.47	0.47
1:MJ:2:ARG:NE	2:MK:71:GLU:OE1	2.46	0.47
1:MN:232:VAL:HG11	1:MN:268:MET:HE3	1.96	0.47
1:N:255:VAL:HG11	2:NA:100:ALA:O	2.15	0.47
2:NA:51:THR:O	2:NA:64:ARG:HD2	2.15	0.47
2:NA:202:THR:C	2:NA:203:MET:HE2	2.40	0.47
2:NA:328:VAL:O	2:NA:332:ILE:HG12	2.14	0.47
1:NB:339:SER:HA	60:3r:96:ASN:ND2	2.29	0.47
1:NF:190:HIS:O	1:NF:194:GLU:HG3	2.15	0.47
2:NG:21:TRP:CZ2	2:NG:65:CYS:HB3	2.50	0.47
2:NG:116:ASP:N	2:NG:116:ASP:OD1	2.44	0.47
2:NG:203:MET:HB2	2:NG:303:THR:HG21	1.97	0.47
2:NI:277:SER:OG	2:NI:278:ALA:N	2.45	0.47
2:NI:324:VAL:CG1	2:NI:326:LYS:HE3	2.45	0.47
1:NJ:161:ASP:OD1	1:NJ:162:ARG:HD2	2.14	0.47
1:NJ:363:MET:HE2	1:NJ:363:MET:HB2	1.76	0.47
2:NK:262:TYR:OH	1:NL:391:ARG:O	2.23	0.47
1:NL:322:SER:HB2	2:NM:222:PRO:O	2.15	0.47
2:OA:98:ASP:OD1	2:OA:99:ALA:N	2.48	0.47
2:OA:222:PRO:CB	2:OA:226:ASN:HD21	2.27	0.47
2:OC:219:ILE:HG13	2:OC:222:PRO:HD3	1.97	0.47
1:OD:20:PHE:HA	1:OD:230:ALA:HB1	1.97	0.47
1:OD:301:GLN:HE22	1:OD:377:MET:HG2	1.80	0.47
1:OF:67:ASP:O	1:OF:92:PHE:HA	2.14	0.47
1:OH:25:SER:HB2	1:OH:81:TYR:HE2	1.80	0.47
1:OJ:4:ILE:HD11	1:OJ:240:LEU:HD22	1.97	0.47
1:OJ:11:GLN:HA	1:OJ:72:THR:HG21	1.97	0.47
1:OJ:345:ILE:HB	1:OJ:348:ASN:HD21	1.80	0.47
2:OK:69:ASP:OD1	2:OK:70:LEU:N	2.48	0.47
2:OM:246:GLY:HA2	2:OM:357:TYR:HD2	1.79	0.47
2:OM:280:LYS:HA	2:OM:283:HIS:CE1	2.49	0.47
2:PA:96:LYS:NZ	59:4a:104:TYR:HD2	2.13	0.47
2:PA:123:ARG:NH2	59:4a:116:GLU:O	2.45	0.47
2:PC:392:ASP:HB2	2:PC:422:ARG:NE	2.30	0.47
1:PD:208:TYR:CZ	1:PD:225:LEU:HD22	2.49	0.47
2:PG:229:ARG:NH2	28:1d:190:GLU:O	2.48	0.47
2:PI:6:CYS:O	2:PI:65:CYS:HA	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PK:167:LEU:HD21	2:PK:255:PHE:CZ	2.49	0.47
2:PM:384:ILE:HD12	2:PM:384:ILE:H	1.78	0.47
2:Q:188:VAL:O	2:Q:191:THR:OG1	2.26	0.47
2:QF:1:MET:H2	2:QF:3:GLU:CD	2.21	0.47
2:QF:156:ARG:HA	2:QF:159:VAL:HG12	1.97	0.47
2:QJ:215:ARG:HH21	59:4b:43:THR:HG21	1.80	0.47
1:QK:189:VAL:O	1:QK:193:VAL:HG23	2.15	0.47
1:QK:317:PHE:HB2	1:QK:353:ILE:HD13	1.95	0.47
2:QL:3:GLU:OE2	2:QL:131:GLY:N	2.40	0.47
2:R:107:HIS:HD2	2:R:108:TYR:CE1	2.33	0.47
2:RB:229:ARG:NH2	28:1X:190:GLU:O	2.47	0.47
1:RE:66:MET:HE3	1:RE:116:VAL:HG11	1.96	0.47
1:RE:190:HIS:HB2	1:RE:414:ASN:HD22	1.80	0.47
1:RE:327:ASP:HB3	2:RF:177:VAL:HG13	1.96	0.47
2:RF:5:ILE:HD11	2:RF:129:CYS:SG	2.55	0.47
2:RH:68:LEU:HD13	2:RH:93:VAL:HG23	1.97	0.47
1:RI:187:LEU:HD21	1:RI:403:MET:HE1	1.96	0.47
2:RJ:316:CYS:SG	2:RJ:318:MET:HE3	2.54	0.47
2:RL:282:TYR:OH	41:2e:137:VAL:HG21	2.15	0.47
1:S:324:LYS:HE3	2:SA:222:PRO:HD2	1.95	0.47
2:SE:154:LEU:HB3	2:SE:197:HIS:HB2	1.96	0.47
1:SF:156:ARG:HH22	1:SF:197:ASP:HB3	1.80	0.47
1:SJ:421:GLU:O	1:SJ:424:GLN:HG3	2.14	0.47
1:TH:217:LEU:HD13	1:TH:220:PRO:HG3	1.96	0.47
2:TK:8:HIS:CD2	2:TK:138:PHE:HD1	2.32	0.47
2:TK:212:LEU:HD11	2:TK:275:VAL:HG11	1.97	0.47
2:TK:392:ASP:OD1	2:TK:393:HIS:N	2.48	0.47
1:TL:67:ASP:OD2	1:TL:72:THR:HB	2.13	0.47
1:TL:340:TYR:OH	61:3x:126:ARG:O	2.27	0.47
1:UB:232:VAL:HG21	1:UB:268:MET:SD	2.54	0.47
2:UE:370:LYS:O	8:0I:144:ARG:NH2	2.48	0.47
2:UG:293:ASN:ND2	2:UG:338:LYS:HE3	2.29	0.47
1:UH:163:ILE:HG21	1:UH:250:LEU:HB3	1.97	0.47
2:UK:31:GLN:NE2	2:UK:37:PRO:HD3	2.26	0.47
1:V:55:SER:H	1:W:283:GLY:HA2	1.80	0.47
2:VA:241:SER:OG	2:VA:250:VAL:O	2.28	0.47
1:VB:61:PRO:HD3	1:VB:84:LEU:HG	1.97	0.47
2:VC:367:ASP:OD1	2:VC:367:ASP:N	2.44	0.47
1:VF:318:ARG:HB2	1:VF:358:PRO:HD3	1.97	0.47
2:VI:220:GLU:C	2:VI:221:ARG:HD2	2.40	0.47
1:VL:66:MET:SD	1:VL:151:LEU:HD22	2.55	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:WA:271:SER:HB3	2:WA:301:MET:HA	1.97	0.47
2:WC:240:ALA:HA	2:WC:243:ARG:HB2	1.96	0.47
1:WF:183:TYR:HE2	1:WF:395:LEU:HD13	1.79	0.47
2:WG:104:ALA:HB2	2:WG:413:MET:HE3	1.95	0.47
1:WH:234:SER:HB2	1:WH:241:ARG:NH2	2.29	0.47
2:WI:5:ILE:HD13	2:WI:64:ARG:HB3	1.97	0.47
2:WK:115:VAL:HG22	2:WK:119:LEU:HD23	1.97	0.47
1:WL:88:ASP:N	1:WL:88:ASP:OD1	2.48	0.47
1:WL:421:GLU:HA	1:WL:424:GLN:HG2	1.96	0.47
3:XE:79:ILE:HD12	3:XE:164:ARG:HB3	1.96	0.47
4:XO:164:ASP:HA	4:XO:202:PRO:HB3	1.95	0.47
6:0:234:GLN:HB3	33:2F:288:PHE:C	2.40	0.47
8:0H:469:ASP:HA	8:0H:472:ARG:HH11	1.79	0.47
9:0N:554:ASN:ND2	9:0N:570:ASN:OD1	2.42	0.47
9:0O:177:ARG:HD3	9:0O:190:PRO:HB2	1.97	0.47
10:0R:156:GLU:HA	10:0R:159:ASP:OD2	2.15	0.47
16:0k:407:VAL:HA	16:0k:412:ILE:HD12	1.97	0.47
17:0m:135:GLU:O	17:0m:138:GLU:HG3	2.14	0.47
25:1O:688:LEU:HA	25:1O:691:VAL:HG12	1.97	0.47
27:1S:76:PRO:O	27:1S:78:MET:HG3	2.15	0.47
27:1S:121:PHE:CE2	27:1S:197:LEU:HB3	2.49	0.47
28:1U:181:PHE:CE1	28:1U:183:GLY:HA3	2.50	0.47
28:1h:65:PHE:CZ	41:2o:291:VAL:HG22	2.50	0.47
28:1h:76:THR:HG23	28:1h:79:GLN:H	1.80	0.47
34:2L:93:TYR:CZ	34:2L:124:ARG:HD3	2.49	0.47
35:2N:286:LEU:HD21	45:2y:419:ALA:HB2	1.96	0.47
41:2o:465:GLN:O	41:2o:468:ARG:HB2	2.15	0.47
44:2v:196:ALA:O	44:2v:200:HIS:HB2	2.14	0.47
54:3Z:390:ARG:HH21	54:3Z:393:GLU:CD	2.23	0.47
57:3i:68:ARG:HH11	57:3i:69:MET:HG3	1.79	0.47
65:5H:83:TYR:CZ	65:5H:87:LYS:HD3	2.50	0.47
1:A:8:GLN:HE22	1:A:21:TRP:NE1	2.13	0.47
1:A:139:LEU:HG	1:A:168:SER:OG	2.15	0.47
1:A:318:ARG:HE	1:A:358:PRO:HG3	1.80	0.47
1:AB:148:GLY:O	1:AB:152:ILE:HG12	2.15	0.47
2:AE:70:LEU:HD12	2:AE:99:ALA:HB2	1.96	0.47
1:AF:130:LEU:HD21	1:AF:133:PHE:CE1	2.49	0.47
2:AG:215:ARG:HH22	2:AG:300:GLY:HA2	1.80	0.47
2:AK:212:LEU:O	2:AK:216:SER:HB3	2.14	0.47
1:AN:136:SER:HB2	1:AN:233:MET:HE1	1.95	0.47
1:B:112:LEU:HD23	1:B:116:VAL:HG23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:114:ASP:OD1	1:B:115:SER:N	2.48	0.47
1:B:326:VAL:HG11	1:B:353:ILE:HD11	1.96	0.47
1:BB:34:GLY:HA3	1:BB:58:ARG:HG3	1.97	0.47
2:BC:335:ILE:HG23	2:BC:341:ILE:HD11	1.95	0.47
1:BD:398:TYR:HB3	1:BD:403:MET:HG3	1.97	0.47
2:BE:141:VAL:HG23	2:BE:173:PRO:HD3	1.96	0.47
1:BH:253:LEU:HD12	1:BH:253:LEU:HA	1.76	0.47
1:BH:319:GLY:HA2	1:BH:357:PRO:HD3	1.96	0.47
1:BJ:139:LEU:HD23	1:BJ:185:THR:HA	1.96	0.47
1:BJ:250:LEU:HD23	1:BJ:250:LEU:HA	1.81	0.47
1:BN:99:ASN:HD21	1:BN:178:THR:HB	1.79	0.47
1:BN:392:LYS:HD3	1:BN:395:LEU:HD23	1.97	0.47
1:CA:289:LEU:HD11	1:CA:363:MET:HG2	1.96	0.47
1:CA:350:LYS:HA	2:CB:179:THR:O	2.15	0.47
2:CD:23:LEU:O	2:CD:27:GLU:HG3	2.15	0.47
1:CG:255:VAL:HG11	2:CH:100:ALA:O	2.15	0.47
2:CH:191:THR:O	2:CH:195:LEU:HD23	2.15	0.47
1:CI:326:VAL:O	1:CI:330:MET:HE2	2.15	0.47
2:CJ:285:GLN:NE2	2:CJ:287:SER:HB3	2.30	0.47
2:CL:155:GLU:HG2	2:CL:197:HIS:ND1	2.30	0.47
2:CL:348:PRO:HG3	1:CM:384:GLN:HB2	1.97	0.47
2:D:51:THR:HG21	2:D:243:ARG:CG	2.45	0.47
1:DC:113:ILE:HG12	1:DC:117:LEU:HD23	1.96	0.47
1:DC:379:ARG:O	1:DC:383:GLU:HG3	2.15	0.47
2:DF:234:VAL:HG13	2:DF:376:CYS:SG	2.55	0.47
2:DJ:188:VAL:HG21	2:DJ:395:PHE:HB2	1.97	0.47
1:DK:326:VAL:HG11	1:DK:353:ILE:HD11	1.97	0.47
2:DL:240:ALA:O	2:DL:356:ASN:ND2	2.47	0.47
2:DL:275:VAL:HG13	2:DL:275:VAL:O	2.15	0.47
1:ED:290:THR:HG21	1:ED:329:GLN:HB3	1.97	0.47
1:EF:186:THR:HG23	1:EF:415:MET:HG3	1.97	0.47
2:EG:79:ARG:NH2	2:EG:94:SER:OG	2.31	0.47
2:EK:72:PRO:O	2:EK:76:ASP:HB2	2.15	0.47
1:EL:267:MET:HB3	1:EL:301:GLN:HG2	1.97	0.47
2:FA:119:LEU:HB3	59:4O:115:HIS:CE1	2.50	0.47
2:FC:139:HIS:O	2:FC:170:THR:HA	2.14	0.47
2:FC:364:PRO:HD2	28:4W:50:LYS:HD3	1.97	0.47
2:FE:286:LEU:O	2:FE:373:ARG:NH1	2.47	0.47
2:FI:93:VAL:HG13	59:4O:294:TYR:HB3	1.97	0.47
1:FL:152:ILE:HG23	1:FL:164:MET:CE	2.44	0.47
1:FL:208:TYR:CE1	1:FL:225:LEU:HD11	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:236:VAL:HG13	1:G:237:THR:HG23	1.97	0.47
2:GA:280:LYS:HB3	2:GA:280:LYS:HZ2	1.80	0.47
2:GC:195:LEU:HA	2:GC:266:HIS:NE2	2.30	0.47
1:GD:212:PHE:HD2	1:GD:213:ARG:HG3	1.80	0.47
2:GE:7:ILE:HD11	2:GE:122:ILE:HD11	1.96	0.47
2:GE:183:GLU:HA	2:GE:186:ASN:HD22	1.80	0.47
2:GE:241:SER:HA	2:GE:356:ASN:HD21	1.80	0.47
1:GF:113:ILE:HG13	1:GF:117:LEU:HD23	1.97	0.47
2:GI:47:ASP:N	2:GI:47:ASP:OD1	2.47	0.47
2:GI:178:SER:HB2	2:GI:183:GLU:OE1	2.15	0.47
1:GJ:346:PRO:HG2	2:GK:394:LYS:NZ	2.30	0.47
1:GL:340:TYR:OH	59:4P:86:PRO:O	2.28	0.47
1:HD:347:ASN:HD21	2:HE:178:SER:HB2	1.80	0.47
2:HI:251:ASP:N	2:HI:254:GLU:HB3	2.29	0.47
1:HL:202:ILE:HD11	1:HL:268:MET:HE1	1.96	0.47
1:HL:376:GLU:HA	1:HL:379:ARG:HG2	1.97	0.47
2:HM:320:ARG:HH12	2:HM:360:PRO:HA	1.79	0.47
2:IA:136:MET:HA	2:IA:136:MET:HE3	1.97	0.47
1:IF:344:TRP:HZ3	2:IG:403:ALA:HB2	1.79	0.47
2:IG:72:PRO:O	2:IG:76:ASP:CB	2.63	0.47
2:IG:138:PHE:HE2	2:IG:235:VAL:HG21	1.79	0.47
2:IM:419:SER:O	2:IM:423:GLU:HG2	2.15	0.47
2:JD:11:GLN:HG2	2:JD:15:GLN:OE1	2.15	0.47
2:JD:234:VAL:HG13	2:JD:376:CYS:SG	2.55	0.47
2:JD:265:ILE:HG23	2:JD:432:TYR:CE1	2.49	0.47
2:JH:240:ALA:O	2:JH:356:ASN:ND2	2.48	0.47
2:JJ:209:ILE:HG21	2:JJ:227:VAL:HG13	1.97	0.47
1:JK:87:PRO:HD3	1:KK:281:TYR:CD2	2.45	0.47
1:JK:134:GLN:HA	1:JK:165:MET:O	2.14	0.47
1:JK:200:MET:HE1	1:JK:368:ILE:CG2	2.44	0.47
2:JN:419:SER:HB2	60:3t:68:LEU:HD13	1.97	0.47
2:K:291:ILE:O	2:K:295:VAL:HG23	2.15	0.47
2:KD:301:MET:HE1	2:KD:307:PRO:HD3	1.97	0.47
2:KH:328:VAL:HG21	2:KH:355:ILE:HD11	1.97	0.47
1:KI:207:LEU:HD21	1:KI:300:MET:HE3	1.95	0.47
2:KJ:223:SER:OG	2:KJ:224:TYR:N	2.48	0.47
2:KL:185:TYR:OH	2:KL:403:ALA:O	2.32	0.47
2:KN:195:LEU:HD12	2:KN:428:LEU:HD22	1.97	0.47
2:L:138:PHE:HE1	2:L:235:VAL:HG21	1.79	0.47
2:LF:113:GLU:HB2	33:2G:174:PRO:HG2	1.97	0.47
2:LF:265:ILE:HG23	2:LF:432:TYR:CE1	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LG:36:TYR:CZ	1:LG:38:GLY:HA3	2.49	0.47
1:LG:152:ILE:HA	1:LG:164:MET:HE2	1.96	0.47
1:LG:322:SER:HB3	1:LG:325:GLU:OE2	2.15	0.47
1:LI:200:MET:HB3	1:LI:268:MET:HE2	1.96	0.47
1:LI:313:ALA:HB3	1:LI:349:ILE:HG12	1.97	0.47
2:LJ:298:PRO:HB2	35:2O:98:PRO:HB2	1.97	0.47
1:LO:268:MET:HE1	1:LO:368:ILE:HG12	1.97	0.47
1:LO:294:PHE:HB3	35:2O:185:PHE:HB2	1.95	0.47
2:MA:260:VAL:HB	1:MB:397:TRP:HZ2	1.80	0.47
2:MC:388:PHE:HA	2:MC:391:ILE:HG22	1.96	0.47
1:MD:276:ARG:NH1	23:1A:167:GLU:OE2	2.48	0.47
2:ME:98:ASP:O	2:ME:105:ARG:NH2	2.46	0.47
1:MF:187:LEU:HA	1:MF:190:HIS:CE1	2.50	0.47
2:MG:326:LYS:HD2	1:MH:220:PRO:HG2	1.97	0.47
1:MH:375:GLN:HB3	1:MH:422:TYR:HD2	1.80	0.47
1:MJ:66:MET:SD	1:MJ:151:LEU:HD13	2.55	0.47
1:ML:66:MET:SD	1:ML:151:LEU:HD22	2.55	0.47
2:MM:319:TYR:CD1	2:MM:323:VAL:HG11	2.50	0.47
1:NB:293:MET:SD	1:NB:367:PHE:HB2	2.55	0.47
1:ND:86:ARG:HG3	1:OD:281:TYR:HB3	1.96	0.47
1:ND:290:THR:HG21	1:ND:329:GLN:HB3	1.97	0.47
2:NE:206:ASN:HB3	2:NE:210:TYR:CE2	2.49	0.47
2:NK:21:TRP:CZ2	2:NK:65:CYS:HB3	2.50	0.47
2:OA:257:THR:HG1	1:OB:397:TRP:CD1	2.33	0.47
1:OB:189:VAL:O	1:OB:193:VAL:HG23	2.14	0.47
2:OC:68:LEU:HD11	2:OC:149:LEU:HD21	1.96	0.47
2:OC:333:ALA:O	2:OC:337:THR:HG23	2.14	0.47
1:OF:19:LYS:O	1:OF:22:GLU:HB2	2.14	0.47
2:OG:310:GLY:HA3	2:OG:383:ALA:HB2	1.97	0.47
1:OH:186:THR:HG22	1:OH:411:ALA:HB1	1.96	0.47
1:OH:320:ARG:HD2	28:1h:75:LYS:O	2.14	0.47
1:OJ:149:THR:HA	1:OJ:152:ILE:HG22	1.97	0.47
2:OK:225:THR:HG23	28:1h:118:PHE:CZ	2.50	0.47
1:OL:172:SER:HB3	1:OL:205:GLU:HG2	1.97	0.47
2:PI:383:ALA:O	2:PI:386:GLU:HG3	2.15	0.47
2:PK:312:TYR:CD1	2:PK:381:SER:HB2	2.50	0.47
1:PL:2:ARG:HH22	2:PM:72:PRO:HG3	1.79	0.47
1:PL:200:MET:N	1:PL:200:MET:SD	2.88	0.47
2:PM:331:ALA:O	2:PM:335:ILE:HG12	2.14	0.47
2:QB:26:LEU:HD22	2:QB:363:VAL:HG12	1.97	0.47
2:QD:141:VAL:HG13	2:QD:170:THR:HG21	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QD:291:ILE:O	2:QD:295:VAL:HG23	2.15	0.47
1:QE:139:LEU:HD12	1:QE:170:ILE:HD11	1.96	0.47
1:QG:326:VAL:O	1:QG:330:MET:HG2	2.14	0.47
1:QG:340:TYR:OH	59:4a:282:TRP:HA	2.14	0.47
2:QH:199:ASP:HB3	2:QH:256:GLN:OE1	2.15	0.47
2:QH:278:ALA:HA	2:QH:369:ALA:HB2	1.97	0.47
1:QK:167:PHE:CE2	1:QK:268:MET:HE1	2.50	0.47
2:QL:252:LEU:O	2:QL:256:GLN:HG3	2.15	0.47
1:RA:5:VAL:HG12	1:RA:62:ARG:HD3	1.97	0.47
2:RD:244:PHE:HB2	2:RD:356:ASN:HD21	1.79	0.47
1:RE:9:ALA:HA	1:RE:66:MET:HB2	1.96	0.47
1:RE:61:PRO:HD3	1:RE:84:LEU:HG	1.97	0.47
2:RF:372:GLN:NE2	41:2e:306:MET:HG2	2.30	0.47
2:RH:69:ASP:O	2:RH:94:SER:HA	2.15	0.47
2:RJ:192:HIS:O	2:RJ:196:GLU:HG2	2.15	0.47
1:S:193:VAL:HG11	1:S:262:ARG:HH21	1.80	0.47
1:SB:164:MET:H	1:SB:197:ASP:HB2	1.80	0.47
1:SD:85:PHE:HB2	1:SD:90:PHE:HE1	1.79	0.47
1:SD:286:VAL:O	1:SD:290:THR:HG22	2.15	0.47
2:SE:169:TYR:HB3	2:SE:204:LEU:HD12	1.96	0.47
2:SE:323:VAL:HG23	2:SE:355:ILE:HG23	1.97	0.47
1:SH:276:ARG:NH1	41:2c:349:ASP:OD2	2.47	0.47
1:SH:385:PHE:HE2	1:SH:412:GLU:HB2	1.79	0.47
1:SJ:344:TRP:H	1:SJ:344:TRP:CD1	2.32	0.47
2:TC:296:PHE:HZ	2:TC:317:LEU:HD11	1.80	0.47
1:TF:4:ILE:HD11	1:TF:240:LEU:HD13	1.97	0.47
1:TF:100:ASN:HB3	1:TF:103:LYS:HB3	1.97	0.47
1:UB:25:SER:HB2	1:UB:81:TYR:HE2	1.80	0.47
2:UC:71:GLU:HB2	2:UC:98:ASP:HB3	1.97	0.47
2:UC:185:TYR:CE2	2:UC:398:MET:HB3	2.49	0.47
2:UG:208:ALA:O	2:UG:212:LEU:HG	2.14	0.47
2:UK:227:VAL:O	2:UK:231:ILE:HG12	2.15	0.47
1:UL:52:ASP:HB2	1:UL:62:ARG:NH1	2.30	0.47
1:V:186:THR:HG21	1:V:385:PHE:CD2	2.50	0.47
1:V:249:ASP:O	1:V:252:LYS:HB3	2.15	0.47
2:VC:244:PHE:HB2	2:VC:356:ASN:HD21	1.80	0.47
1:VF:141:GLY:O	1:VF:145:SER:OG	2.30	0.47
1:VH:242:PHE:HB2	1:VH:354:CYS:SG	2.55	0.47
1:VH:246:LEU:HD12	2:VI:11:GLN:NE2	2.29	0.47
1:W:119:VAL:O	1:W:123:GLU:HG2	2.15	0.47
1:W:210:ILE:HD11	1:W:298:ASN:HA	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:WA:319:TYR:HB3	2:WA:323:VAL:HG21	1.97	0.47
1:WF:257:LEU:HB3	1:WF:266:PHE:CE1	2.50	0.47
2:WG:167:LEU:HD11	2:WG:255:PHE:HZ	1.80	0.47
1:WH:125:GLU:CD	3:XD:45:SER:H	2.22	0.47
1:WH:198:GLU:HB2	1:WH:266:PHE:CE2	2.47	0.47
2:WI:395:PHE:CD2	2:WI:422:ARG:HD3	2.50	0.47
2:WK:262:TYR:HB2	2:WK:265:ILE:HG12	1.96	0.47
1:WL:91:ILE:HD13	1:WL:116:VAL:HA	1.97	0.47
3:XD:21:PRO:HG3	3:XD:36:ARG:HD2	1.96	0.47
3:XF:74:PRO:HD2	3:XF:169:ASP:HA	1.96	0.47
3:XF:112:THR:HA	3:XF:120:THR:O	2.15	0.47
5:XN:132:PHE:HD1	5:XN:170:ILE:HG22	1.79	0.47
8:0I:226:HIS:CD2	53:3W:205:ALA:H	2.32	0.47
9:0M:26:LEU:HD11	9:0M:35:LEU:HD22	1.96	0.47
9:0O:169:ILE:HG22	9:0O:205:ILE:HD13	1.97	0.47
11:0U:230:LEU:HG	11:0U:269:ILE:HG12	1.96	0.47
12:0W:123:ILE:HD13	12:0W:155:CYS:HB3	1.97	0.47
12:0W:157:ARG:HD3	12:0W:163:LYS:HG3	1.96	0.47
22:0z:182:LEU:O	22:0z:186:ILE:HG12	2.14	0.47
22:0z:259:LEU:HD12	22:0z:262:ILE:HD12	1.97	0.47
23:1F:384:ALA:HB3	29:1l:183:LEU:HD21	1.97	0.47
24:1H:105:VAL:HG21	24:1H:108:SER:HB3	1.96	0.47
24:1J:55:ARG:HG3	44:2w:49:HIS:CG	2.49	0.47
26:1Q:22:GLU:HG3	26:1Q:25:HIS:NE2	2.30	0.47
26:1Q:326:ALA:HB1	26:1Q:355:MET:HE1	1.97	0.47
26:1Q:578:ASP:O	26:1Q:582:THR:HG23	2.15	0.47
28:1a:242:PRO:HG2	28:1a:244:ARG:HE	1.80	0.47
29:1j:6:LYS:NZ	29:1j:76:GLY:O	2.44	0.47
33:2H:94:GLN:OE1	33:2H:110:THR:OG1	2.31	0.47
34:2L:250:ARG:HH11	34:2L:254:ARG:HE	1.61	0.47
38:2U:217:VAL:O	38:2U:221:VAL:HB	2.15	0.47
49:3P:353:ARG:HD2	49:3P:363:LEU:HD23	1.97	0.47
49:3Q:517:THR:OG1	49:3Q:556:ASP:HB3	2.15	0.47
60:3s:134:ASP:O	60:3s:138:ASN:ND2	2.30	0.47
65:5G:76:VAL:O	65:5G:80:GLU:HG3	2.15	0.47
65:5G:131:LEU:HD21	68:5S:136:TYR:CZ	2.49	0.47
66:5K:17:GLU:OE2	66:5K:256:VAL:HG12	2.15	0.47
66:5L:56:PRO:HB2	66:5L:77:LEU:HB3	1.96	0.47
68:5T:90:LYS:HG2	68:5T:97:ILE:HD13	1.97	0.47
1:AB:173:PRO:HG3	1:AB:384:GLN:NE2	2.30	0.47
2:AC:288:VAL:HA	2:AC:291:ILE:HG12	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:2:ARG:NH1	2:AE:72:PRO:HD2	2.30	0.47
1:AH:324:LYS:HB2	2:AI:221:ARG:NH1	2.29	0.47
1:AJ:135:LEU:HB3	1:AJ:166:THR:HG22	1.97	0.47
1:AN:215:LEU:HB3	1:AN:217:LEU:HG	1.95	0.47
1:B:301:GLN:HG2	1:B:377:MET:HE1	1.96	0.47
1:BB:267:MET:HE1	1:BB:305:PRO:HB3	1.97	0.47
2:BC:192:HIS:NE2	2:BC:421:ALA:HA	2.30	0.47
1:BD:153:SER:O	1:BD:157:GLU:HG3	2.14	0.47
1:BD:323:THR:HG21	2:BE:224:TYR:CE1	2.50	0.47
2:BG:241:SER:HA	2:BG:356:ASN:HD21	1.79	0.47
1:BJ:19:LYS:NZ	1:BJ:223:GLY:O	2.48	0.47
2:BK:257:THR:HG21	1:BL:98:GLY:O	2.15	0.47
2:BK:326:LYS:NZ	1:BL:220:PRO:O	2.41	0.47
1:BL:255:VAL:HG11	2:BM:100:ALA:O	2.15	0.47
1:BL:309:ARG:HG2	1:BL:426:GLN:HE22	1.80	0.47
1:CA:167:PHE:CZ	1:CA:233:MET:HG2	2.50	0.47
1:CE:60:VAL:HG21	1:DE:281:TYR:HB3	1.96	0.47
2:CH:270:THR:HG22	2:CH:378:ILE:HD13	1.96	0.47
1:CI:346:PRO:HG2	2:CJ:394:LYS:NZ	2.30	0.47
2:CJ:262:TYR:HB2	2:CJ:265:ILE:HG12	1.96	0.47
1:CK:211:CYS:HB3	1:CK:220:PRO:HG3	1.96	0.47
2:CL:212:LEU:HD21	2:CL:275:VAL:HG11	1.97	0.47
2:CL:238:LEU:HD11	2:CL:378:ILE:HG13	1.97	0.47
2:DD:205:ASP:OD1	2:DD:205:ASP:N	2.48	0.47
2:DF:202:THR:C	2:DF:203:MET:HE2	2.40	0.47
2:DL:219:ILE:HB	2:DL:222:PRO:HG3	1.96	0.47
1:DM:164:MET:H	1:DM:197:ASP:HB2	1.79	0.47
1:DM:164:MET:HB2	1:DM:197:ASP:H	1.81	0.47
1:ED:239:CYS:HB3	1:ED:247:ASN:HB2	1.96	0.47
1:ED:322:SER:O	1:ED:326:VAL:HG23	2.15	0.47
1:EF:276:ARG:HG3	25:1O:424:PRO:HA	1.96	0.47
2:EI:324:VAL:HG12	2:EI:326:LYS:H	1.79	0.47
1:EL:133:PHE:CD2	1:EL:164:MET:HE1	2.42	0.47
1:EL:143:THR:HG23	69:EL:500:GDP:O2B	2.15	0.47
2:FA:75:VAL:HG21	2:FA:94:SER:HB3	1.97	0.47
1:FD:8:GLN:NE2	1:FD:17:GLY:HA3	2.30	0.47
1:FH:190:HIS:O	1:FH:194:GLU:HG3	2.15	0.47
2:FI:209:ILE:HG21	2:FI:227:VAL:HG13	1.96	0.47
2:FI:332:ILE:HD11	2:FI:353:CYS:SG	2.55	0.47
1:FJ:324:LYS:HD3	2:FK:210:TYR:CG	2.49	0.47
1:FL:175:VAL:HG11	1:FL:204:ASN:HB3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GB:66:MET:SD	1:GB:116:VAL:HG22	2.55	0.47
1:GB:133:PHE:HE2	1:GB:159:TYR:HD2	1.62	0.47
1:GH:398:TYR:HB3	1:GH:403:MET:HE3	1.97	0.47
2:GI:298:PRO:HD3	59:4P:8:LEU:HG	1.96	0.47
1:GJ:149:THR:HG21	1:GJ:188:SER:HA	1.96	0.47
1:GL:115:SER:HA	1:GL:118:ASP:OD2	2.15	0.47
1:H:87:PRO:HD3	1:I:281:TYR:CD2	2.45	0.47
1:HB:321:MET:HE2	1:HB:326:VAL:HG22	1.97	0.47
2:HC:258:ASN:OD1	1:HD:179:VAL:HG22	2.15	0.47
1:HD:156:ARG:HH22	1:HD:197:ASP:CG	2.23	0.47
2:HE:322:ASP:OD2	2:HE:373:ARG:NH2	2.47	0.47
2:HE:406:HIS:HA	2:HE:409:VAL:HG22	1.96	0.47
2:HG:186:ASN:OD1	2:HG:408:TYR:OH	2.31	0.47
2:HG:207:GLU:HA	2:HG:210:TYR:HB2	1.97	0.47
2:HG:213:THR:HA	2:HG:217:LEU:HB3	1.97	0.47
1:HL:324:LYS:HE3	2:HM:222:PRO:HG2	1.96	0.47
2:HM:9:ILE:HB	2:HM:139:HIS:HB3	1.97	0.47
1:I:279:GLN:NE2	7:0C:277:TRP:HA	2.30	0.47
1:I:314:SER:HA	1:I:350:LYS:HB3	1.97	0.47
1:I:372:THR:HA	1:I:422:TYR:HD1	1.79	0.47
2:IA:66:LEU:HD22	2:IA:122:ILE:HD11	1.96	0.47
2:IC:219:ILE:HG22	2:IC:221:ARG:H	1.80	0.47
1:ID:131:GLN:NE2	1:ID:250:LEU:HB2	2.27	0.47
1:ID:325:GLU:N	1:ID:325:GLU:OE1	2.47	0.47
1:IF:131:GLN:O	1:IF:163:ILE:HG12	2.15	0.47
1:IH:405:GLU:O	1:IH:409:THR:HG23	2.15	0.47
2:IK:132:LEU:HG	2:IK:164:LYS:HD2	1.97	0.47
1:JA:406:MET:HG3	1:N:307:HIS:CE1	2.50	0.47
2:JB:295:VAL:HG21	2:JB:375:VAL:HG13	1.96	0.47
2:JB:422:ARG:CZ	60:3r:72:MET:HE1	2.45	0.47
2:JD:384:ILE:O	2:JD:387:VAL:HG12	2.15	0.47
1:JG:34:GLY:HA3	1:JG:58:ARG:HG3	1.96	0.47
1:JI:324:LYS:HB3	2:JJ:210:TYR:CD1	2.50	0.47
2:KB:297:GLU:HG3	2:KB:299:ALA:H	1.79	0.47
1:KC:113:ILE:HG13	1:KC:117:LEU:HD23	1.97	0.47
1:KC:234:SER:O	1:KC:241:ARG:NH2	2.40	0.47
1:KC:320:ARG:NH2	15:0f:220:GLU:O	2.41	0.47
2:KD:322:ASP:OD2	2:KD:373:ARG:NH2	2.48	0.47
2:KD:345:ASP:OD1	2:KD:346:TRP:N	2.48	0.47
1:KE:90:PHE:HB2	15:0f:255:MET:HE1	1.95	0.47
1:KE:247:ASN:H	2:KF:11:GLN:HE22	1.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KF:58:ALA:HB3	2:KF:60:LYS:HG3	1.96	0.47
2:KH:251:ASP:H	2:KH:254:GLU:HB3	1.79	0.47
2:KH:324:VAL:HG13	2:KH:327:ASP:H	1.79	0.47
1:KK:213:ARG:HH12	1:KK:214:THR:HG1	1.61	0.47
2:KL:316:CYS:HB3	2:KL:318:MET:HE3	1.97	0.47
2:KN:274:PRO:HG2	2:KN:371:VAL:HG11	1.96	0.47
1:LA:189:VAL:HG21	1:LA:378:PHE:HE1	1.80	0.47
1:LE:323:THR:O	1:LE:326:VAL:HG12	2.15	0.47
1:LE:359:LYS:HD3	45:2y:283:TYR:HB3	1.98	0.47
1:LI:27:GLU:HA	1:LI:359:LYS:NZ	2.29	0.47
1:LI:255:VAL:HG11	2:LJ:100:ALA:O	2.15	0.47
1:LK:3:GLU:HA	1:LK:49:VAL:HA	1.97	0.47
1:LK:272:PRO:HG3	1:LK:284:LEU:HD11	1.97	0.47
1:LK:304:ASP:OD2	1:LK:304:ASP:N	2.47	0.47
1:LK:390:ARG:HG3	22:0z:151:LEU:HD22	1.92	0.47
1:LO:186:THR:HA	1:LO:189:VAL:HG12	1.96	0.47
2:MA:247:ALA:HB1	1:MB:222:PHE:CD2	2.49	0.47
1:MB:65:LEU:HB3	1:MB:73:MET:HE1	1.97	0.47
1:MB:345:ILE:HG23	1:MB:348:ASN:OD1	2.15	0.47
1:MB:386:THR:HB	1:MB:412:GLU:OE2	2.15	0.47
1:MD:2:ARG:HH21	1:MD:240:LEU:HD23	1.79	0.47
1:MD:218:THR:HA	32:2B:252:TRP:NE1	2.30	0.47
1:MF:144:GLY:N	69:MF:500:GDP:O2B	2.44	0.47
1:MF:252:LYS:HG3	1:MF:350:LYS:HE3	1.96	0.47
2:MI:112:LYS:HD2	2:MI:152:LEU:HD21	1.95	0.47
1:MJ:202:ILE:HD11	1:MJ:268:MET:SD	2.54	0.47
2:MM:376:CYS:SG	2:MM:377:MET:N	2.87	0.47
1:NB:2:ARG:N	1:NB:129:CYS:O	2.47	0.47
1:NB:255:VAL:HG11	2:NC:100:ALA:O	2.15	0.47
2:NC:132:LEU:HG	2:NC:164:LYS:HE2	1.96	0.47
2:NG:191:THR:HG21	2:NG:425:LEU:HD21	1.96	0.47
2:NK:265:ILE:HG22	2:NK:432:TYR:CE1	2.50	0.47
1:NL:420:SER:O	1:NL:424:GLN:HG3	2.14	0.47
2:OA:158:SER:HB2	2:OA:197:HIS:HD2	1.80	0.47
2:OA:212:LEU:HD21	2:OA:275:VAL:HG21	1.95	0.47
2:OA:331:ALA:HA	2:OA:334:THR:HG22	1.97	0.47
2:OA:335:ILE:HD12	2:OA:338:LYS:HD3	1.97	0.47
1:OB:362:LYS:NZ	41:2o:433:GLU:OE1	2.31	0.47
2:OC:60:LYS:HE2	41:2k:194:ARG:HH12	1.66	0.47
2:OC:326:LYS:NZ	1:OD:220:PRO:HD2	2.30	0.47
1:OF:273:LEU:H	1:OF:292:GLN:HE22	1.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OL:66:MET:HG2	1:OL:147:MET:HE1	1.95	0.47
1:OL:105:HIS:CE1	1:OL:150:LEU:HB2	2.50	0.47
1:OL:251:ARG:HE	2:OM:105:ARG:NH1	2.13	0.47
1:PB:332:ASN:HB3	1:PB:336:LYS:HZ1	1.80	0.47
2:PI:188:VAL:HG22	2:PI:425:LEU:HD22	1.97	0.47
2:PK:392:ASP:HB3	2:PK:425:LEU:HD23	1.95	0.47
1:PL:8:GLN:NE2	1:PL:65:LEU:HG	2.30	0.47
1:QA:203:ASP:HB2	1:QA:301:GLN:NE2	2.29	0.47
2:QB:167:LEU:HD21	2:QB:255:PHE:CZ	2.50	0.47
1:QE:255:VAL:HG11	2:QF:100:ALA:O	2.15	0.47
2:QH:396:ASP:OD2	2:QH:422:ARG:NH2	2.43	0.47
1:QK:9:ALA:O	1:QK:13:GLY:HA3	2.15	0.47
2:QL:265:ILE:O	2:QL:265:ILE:HG13	2.15	0.47
2:RB:158:SER:CB	2:RB:197:HIS:HD2	2.28	0.47
2:RB:346:TRP:CD1	1:RC:391:ARG:HH11	2.33	0.47
1:RC:371:ASN:OD1	1:RC:372:THR:N	2.48	0.47
2:RH:76:ASP:HA	2:RH:79:ARG:HD2	1.97	0.47
2:RJ:195:LEU:HD21	2:RJ:264:ARG:HE	1.78	0.47
1:RK:311:LEU:HD23	1:RK:342:ILE:HD13	1.96	0.47
1:RK:324:LYS:HD3	2:RL:222:PRO:HG2	1.97	0.47
2:SA:184:PRO:HG2	2:SA:398:MET:HE2	1.96	0.47
1:SB:20:PHE:HA	1:SB:230:ALA:HB1	1.97	0.47
1:SB:150:LEU:O	1:SB:154:LYS:HG2	2.15	0.47
2:SE:205:ASP:OD1	2:SE:303:THR:HA	2.14	0.47
1:SF:148:GLY:O	1:SF:152:ILE:HG12	2.15	0.47
1:SF:170:ILE:HG21	1:SF:377:MET:SD	2.54	0.47
2:SG:212:LEU:HD21	2:SG:275:VAL:HG11	1.96	0.47
2:TC:176:GLN:HG2	2:TC:207:GLU:OE2	2.15	0.47
2:TG:26:LEU:HD12	2:TG:363:VAL:HG12	1.97	0.47
1:TL:22:GLU:HA	1:TL:81:TYR:CD1	2.50	0.47
1:U:246:LEU:HD13	2:UA:179:THR:HG21	1.96	0.47
2:UE:27:GLU:OE1	2:UE:243:ARG:NH1	2.32	0.47
2:UG:205:ASP:OD1	2:UG:303:THR:HA	2.15	0.47
1:UH:200:MET:HE2	1:UH:200:MET:HB2	1.65	0.47
1:UH:351:SER:HB3	2:UI:179:THR:HG23	1.97	0.47
2:UK:123:ARG:HH22	2:VK:297:GLU:HG3	1.80	0.47
1:UL:318:ARG:NH1	1:UL:358:PRO:HG3	2.29	0.47
2:VA:295:VAL:HG22	2:VA:377:MET:HB2	1.96	0.47
2:VE:195:LEU:HD22	2:VE:428:LEU:HD12	1.95	0.47
2:VE:338:LYS:HD2	2:VE:341:ILE:HD13	1.97	0.47
2:VI:188:VAL:HG21	2:VI:395:PHE:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:WB:74:ASP:OD1	1:WB:77:ARG:NH2	2.48	0.47
1:WB:193:VAL:HA	1:WB:264:HIS:NE2	2.30	0.47
1:WD:173:PRO:HD3	1:WD:380:ARG:NH1	2.29	0.47
1:WF:156:ARG:HH22	1:WF:197:ASP:CG	2.23	0.47
1:WF:286:VAL:HG11	1:WF:325:GLU:CB	2.45	0.47
1:WH:323:THR:HG21	2:WI:224:TYR:CE1	2.50	0.47
2:WI:32:PRO:HG3	2:WI:83:TYR:CE2	2.50	0.47
1:WJ:173:PRO:CD	1:WJ:380:ARG:HE	2.29	0.47
1:WJ:246:LEU:HA	2:WK:11:GLN:HE22	1.80	0.47
2:WK:101:ASN:OD1	2:WK:143:GLY:HA2	2.14	0.47
4:XO:219:LEU:HD21	4:XO:247:LEU:HD22	1.96	0.47
5:XP:42:ARG:NH2	9:0M:391:ARG:HH22	2.13	0.47
4:XQ:136:ILE:HG12	4:XQ:176:LEU:HD21	1.96	0.47
8:0I:115:GLU:O	8:0I:119:LEU:HD13	2.15	0.47
9:0O:114:LEU:HD12	9:0O:123:LEU:HD21	1.97	0.47
11:0U:153:GLU:O	11:0U:157:LYS:HG3	2.15	0.47
17:0n:354:ALA:HA	17:0n:357:LYS:HD3	1.97	0.47
21:0v:50:LEU:HD23	21:0v:51:SER:O	2.15	0.47
24:1H:672:LEU:HG	24:1H:675:LYS:HE3	1.96	0.47
26:1Q:28:THR:HG22	26:1Q:30:GLY:N	2.28	0.47
27:1S:7:LEU:HB3	27:1S:11:MET:HG2	1.96	0.47
33:2H:92:TYR:HE1	33:2H:112:TYR:HD2	1.63	0.47
34:2L:71:PRO:HD3	34:2L:112:HIS:CE1	2.50	0.47
34:2L:137:ARG:HH12	34:2L:142:THR:HA	1.80	0.47
35:2O:14:PRO:HG2	35:2O:17:TRP:HB2	1.97	0.47
46:3B:178:GLU:OE1	46:3B:178:GLU:N	2.48	0.47
49:3Q:336:VAL:O	49:3Q:336:VAL:HG12	2.15	0.47
57:3f:67:SER:HA	57:3f:70:TYR:CD2	2.50	0.47
64:5C:174:THR:HG23	65:5H:173:MET:HE3	1.96	0.47
67:5P:30:TYR:O	67:5P:43:THR:HG22	2.15	0.47
1:A:198:GLU:HB2	1:A:266:PHE:HE2	1.81	0.46
1:A:252:LYS:HD3	1:A:350:LYS:HZ1	1.80	0.46
2:AA:188:VAL:HG11	2:AA:395:PHE:CD1	2.50	0.46
1:AB:10:GLY:HA2	1:AB:143:THR:HG23	1.96	0.46
1:AB:350:LYS:HD2	2:AC:179:THR:O	2.15	0.46
1:AD:132:GLY:HA2	1:AD:162:ARG:HB3	1.97	0.46
2:AE:211:ASP:C	2:AE:215:ARG:HH11	2.23	0.46
1:AH:226:ASN:CG	69:AH:500:GDP:HN1	2.21	0.46
2:AI:21:TRP:CZ2	2:AI:65:CYS:HB3	2.50	0.46
2:AI:269:LEU:N	2:AI:379:ALA:O	2.47	0.46
1:AL:385:PHE:CE2	1:AL:412:GLU:HB3	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:229:VAL:HA	1:B:232:VAL:HG12	1.96	0.46
1:B:232:VAL:CG1	1:B:268:MET:HE2	2.45	0.46
1:BD:66:MET:HE3	1:BD:116:VAL:HG11	1.97	0.46
1:BF:324:LYS:NZ	2:BG:222:PRO:O	2.47	0.46
2:BG:291:ILE:O	2:BG:295:VAL:HG23	2.16	0.46
2:BI:346:TRP:HZ3	1:BJ:394:PHE:HE2	1.62	0.46
1:BJ:190:HIS:HB2	1:BJ:414:ASN:HD22	1.80	0.46
1:BJ:313:ALA:HB1	1:BJ:367:PHE:HE1	1.80	0.46
1:CA:3:GLU:H	1:CA:131:GLN:H	1.63	0.46
1:CA:177:ASP:OD1	1:CA:177:ASP:N	2.47	0.46
1:CE:19:LYS:HZ2	1:CE:227:HIS:HB2	1.80	0.46
1:CE:113:ILE:HG12	1:CE:154:LYS:HZ2	1.80	0.46
2:CH:5:ILE:HG23	2:CH:125:LEU:HD13	1.97	0.46
1:CM:8:GLN:HE22	1:CM:21:TRP:HE1	1.62	0.46
2:D:248:LEU:HB3	2:D:354:GLY:HA2	1.97	0.46
1:DA:293:MET:HG3	1:DA:367:PHE:HB2	1.97	0.46
2:DB:352:LYS:HD2	1:DC:177:ASP:O	2.14	0.46
2:DD:259:LEU:HD21	2:DD:268:VAL:HG11	1.97	0.46
2:DD:271:SER:OG	2:DD:295:VAL:HG13	2.15	0.46
1:DE:226:ASN:HA	1:DE:229:VAL:HG22	1.97	0.46
1:DK:89:ASN:ND2	1:DK:123:GLU:OE2	2.48	0.46
1:DM:286:VAL:HB	1:DM:329:GLN:HE22	1.80	0.46
1:E:233:MET:O	1:E:236:VAL:HG12	2.14	0.46
2:EA:251:ASP:H	2:EA:254:GLU:HB2	1.79	0.46
1:EB:83:GLN:O	1:FB:281:TYR:OH	2.13	0.46
1:EL:113:ILE:HG13	1:EL:117:LEU:HD23	1.95	0.46
1:FD:324:LYS:HE3	2:FE:222:PRO:HD2	1.97	0.46
1:FF:65:LEU:HD12	1:FF:73:MET:HE1	1.97	0.46
1:FF:193:VAL:HA	1:FF:264:HIS:HE2	1.80	0.46
1:FJ:207:LEU:HD22	1:FJ:300:MET:HB2	1.96	0.46
1:FJ:232:VAL:HG22	1:FJ:270:PHE:HB2	1.97	0.46
2:FK:120:ASP:O	2:FK:123:ARG:HG3	2.15	0.46
2:FK:309:HIS:ND1	2:FK:386:GLU:OE2	2.41	0.46
1:FL:113:ILE:O	1:FL:117:LEU:HD23	2.16	0.46
1:GD:119:VAL:O	1:GD:123:GLU:HG2	2.15	0.46
1:GD:320:ARG:NH2	10:0R:175:TYR:OH	2.48	0.46
2:GE:77:GLU:OE2	36:2Q:282:SER:OG	2.26	0.46
2:GE:296:PHE:CZ	2:GE:377:MET:HE1	2.50	0.46
1:GF:141:GLY:O	1:GF:184:ASN:ND2	2.48	0.46
1:GF:267:MET:O	1:GF:268:MET:HE2	2.15	0.46
2:GG:212:LEU:HD13	2:GG:300:GLY:HA2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GG:384:ILE:O	2:GG:387:VAL:HG12	2.14	0.46
1:GH:156:ARG:HH22	1:GH:197:ASP:CG	2.23	0.46
1:GL:51:PHE:HB3	1:GL:59:TYR:HB3	1.97	0.46
1:H:117:LEU:O	1:H:121:ARG:HG2	2.15	0.46
1:H:156:ARG:NH2	1:H:164:MET:HG2	2.29	0.46
2:HA:204:LEU:HD22	2:HA:231:ILE:HD12	1.97	0.46
1:HD:186:THR:HG22	1:HD:415:MET:HE1	1.97	0.46
1:HF:346:PRO:HG2	2:HG:394:LYS:NZ	2.30	0.46
2:HI:393:HIS:NE2	2:HI:397:LEU:HD12	2.29	0.46
2:HM:91:GLN:OE1	2:HM:125:LEU:HD11	2.15	0.46
1:I:101:TRP:H	1:I:398:TYR:HE2	1.63	0.46
1:I:249:ASP:O	1:I:252:LYS:HB2	2.15	0.46
1:IB:314:SER:HB3	1:IB:368:ILE:HB	1.97	0.46
1:ID:113:ILE:HG12	1:ID:150:LEU:HD22	1.95	0.46
2:IE:155:GLU:HG3	2:IE:197:HIS:ND1	2.29	0.46
2:IE:336:LYS:HE3	2:IE:351:PHE:CD2	2.50	0.46
2:IG:326:LYS:NZ	1:IH:220:PRO:O	2.46	0.46
2:J:68:LEU:HD12	2:J:68:LEU:O	2.14	0.46
2:JB:326:LYS:HD2	1:JC:212:PHE:CZ	2.51	0.46
1:JE:320:ARG:NH2	19:0r:164:ASP:HB3	2.29	0.46
2:JF:177:VAL:N	2:JF:207:GLU:OE2	2.36	0.46
1:JI:290:THR:HG21	1:JI:329:GLN:O	2.14	0.46
2:JJ:388:PHE:HA	2:JJ:391:ILE:HG22	1.97	0.46
1:JK:20:PHE:CD2	1:JK:233:MET:HB3	2.51	0.46
1:JK:406:MET:HA	1:JK:409:THR:HG23	1.96	0.46
2:JL:15:GLN:HG3	52:3U:230:TYR:OH	2.14	0.46
2:JL:252:LEU:HA	2:JL:255:PHE:CE1	2.50	0.46
1:JM:249:ASP:H	1:JM:252:LYS:HB3	1.80	0.46
2:JN:9:ILE:HB	2:JN:139:HIS:HB3	1.97	0.46
2:JN:31:GLN:NE2	15:0g:59:GLU:OE2	2.45	0.46
2:JN:201:ALA:HB3	2:JN:267:PHE:CD1	2.50	0.46
2:KL:31:GLN:HE22	2:KL:37:PRO:HG3	1.79	0.46
1:LC:165:MET:HA	1:LC:198:GLU:O	2.14	0.46
2:LH:208:ALA:HB2	2:LH:304:LYS:HB2	1.98	0.46
2:LJ:5:ILE:HG12	2:LJ:132:LEU:HD13	1.97	0.46
2:LJ:70:LEU:HD21	2:LJ:114:ILE:HG21	1.97	0.46
1:LK:185:THR:O	1:LK:189:VAL:HG22	2.15	0.46
1:LK:247:ASN:OD1	2:LL:11:GLN:NE2	2.48	0.46
2:LL:296:PHE:HZ	2:LL:351:PHE:HE1	1.63	0.46
2:LN:116:ASP:OD1	2:LN:117:LEU:HD12	2.15	0.46
1:LO:294:PHE:HB3	35:2O:185:PHE:CD2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:15:GLN:NE2	69:M:500:GDP:O6	2.49	0.46
1:MB:244:GLY:HA3	1:MB:354:CYS:HA	1.95	0.46
1:MB:316:LEU:HD13	1:MB:352:SER:OG	2.14	0.46
2:ME:304:LYS:HD3	33:2G:181:ILE:HD11	1.97	0.46
1:MF:416:ASN:HA	1:MF:419:VAL:HG12	1.98	0.46
2:MG:352:LYS:HD2	2:MG:353:CYS:H	1.79	0.46
1:MH:186:THR:HG22	1:MH:411:ALA:HB1	1.97	0.46
2:MI:328:VAL:O	2:MI:332:ILE:HG12	2.15	0.46
1:ML:140:GLY:HA2	1:ML:181:GLU:OE2	2.15	0.46
1:MN:4:ILE:HD12	1:MN:250:LEU:HD12	1.97	0.46
1:N:36:TYR:OH	41:2n:155:ARG:NH2	2.41	0.46
1:NF:19:LYS:HD2	1:NF:226:ASN:HB2	1.97	0.46
1:NF:249:ASP:O	1:NF:253:LEU:HD23	2.15	0.46
2:NG:257:THR:HA	1:NH:397:TRP:CE2	2.50	0.46
2:NI:79:ARG:NH2	2:NI:94:SER:OG	2.36	0.46
1:O:423:GLN:O	1:O:426:GLN:HG3	2.15	0.46
1:OB:76:VAL:O	1:OB:82:GLY:HA3	2.16	0.46
2:OI:123:ARG:HA	2:OI:161:TYR:OH	2.16	0.46
2:OI:156:ARG:HA	2:OI:159:VAL:HG12	1.97	0.46
2:OI:231:ILE:O	2:OI:235:VAL:HG13	2.15	0.46
1:OL:233:MET:O	1:OL:236:VAL:HG12	2.15	0.46
1:OL:327:ASP:HB3	2:OM:177:VAL:HG13	1.97	0.46
2:PA:439:SER:HB2	1:PB:390:ARG:HH12	1.80	0.46
1:PB:113:ILE:HG12	1:PB:117:LEU:HD23	1.96	0.46
1:PB:249:ASP:H	1:PB:252:LYS:HB2	1.80	0.46
2:PE:312:TYR:HA	2:PE:381:SER:HB2	1.97	0.46
2:PE:359:PRO:HD3	28:1d:168:SER:HA	1.96	0.46
2:PG:142:GLY:O	2:PG:186:ASN:ND2	2.40	0.46
2:PG:261:PRO:HB3	1:PH:394:PHE:HE1	1.79	0.46
1:PH:377:MET:HG3	1:PH:378:PHE:CD1	2.48	0.46
2:PI:291:ILE:O	2:PI:295:VAL:HG23	2.15	0.46
1:PL:323:THR:HG21	2:PM:224:TYR:CD2	2.50	0.46
2:PM:90:GLU:O	2:PM:91:GLN:HG3	2.15	0.46
2:PM:128:ASN:HD21	2:QL:285:GLN:HG3	1.81	0.46
1:QC:263:LEU:HG	1:QC:422:TYR:CE1	2.51	0.46
2:QD:257:THR:HG21	1:QE:98:GLY:O	2.15	0.46
2:QF:202:THR:HG23	2:QF:270:THR:HG21	1.96	0.46
2:QH:155:GLU:HA	2:QH:197:HIS:CD2	2.50	0.46
2:QH:321:GLY:HA3	2:QH:372:GLN:O	2.15	0.46
1:QI:208:TYR:CE1	1:QI:225:LEU:HD11	2.50	0.46
2:QJ:9:ILE:HG22	2:QJ:146:GLY:HA2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QJ:188:VAL:O	2:QJ:191:THR:OG1	2.33	0.46
2:RB:194:LEU:O	2:RB:266:HIS:NE2	2.39	0.46
1:RG:198:GLU:HB2	1:RG:266:PHE:HE2	1.80	0.46
1:RG:324:LYS:HG2	2:RH:222:PRO:HD2	1.97	0.46
2:RJ:273:ALA:HB3	2:RJ:295:VAL:HG23	1.95	0.46
2:RJ:399:TYR:O	2:RJ:402:ARG:NH1	2.48	0.46
1:RK:7:CYS:HB2	1:RK:135:LEU:HD13	1.97	0.46
2:SA:392:ASP:OD1	2:SA:393:HIS:N	2.48	0.46
2:SE:252:LEU:HA	2:SE:255:PHE:CE1	2.50	0.46
1:SF:91:ILE:HD13	1:SF:116:VAL:HA	1.97	0.46
2:SK:88:ASN:ND2	2:TK:283:HIS:HB3	2.30	0.46
1:T:229:VAL:HG12	1:T:300:MET:HE1	1.95	0.46
1:T:311:LEU:HB2	1:T:370:ASN:O	2.15	0.46
1:TD:187:LEU:O	1:TD:190:HIS:NE2	2.48	0.46
1:TF:97:ALA:HB2	1:TF:143:THR:HB	1.96	0.46
1:TF:247:ASN:H	2:TG:11:GLN:HE22	1.63	0.46
2:TG:244:PHE:O	2:TG:356:ASN:ND2	2.48	0.46
1:TH:73:MET:HA	1:TH:76:VAL:HG12	1.97	0.46
2:TI:318:MET:O	2:TI:375:VAL:HA	2.14	0.46
1:TJ:186:THR:HG23	1:TJ:415:MET:HE3	1.97	0.46
2:TK:188:VAL:O	2:TK:191:THR:HG22	2.15	0.46
1:U:272:PRO:HD2	1:U:361:LEU:HD13	1.96	0.46
2:UA:264:ARG:NH1	2:UA:431:ASP:OD2	2.48	0.46
1:UB:61:PRO:HD3	1:UB:84:LEU:HG	1.97	0.46
1:UB:385:PHE:HE2	1:UB:412:GLU:HB2	1.79	0.46
2:UC:75:VAL:HB	2:UC:94:SER:HB2	1.97	0.46
2:UC:384:ILE:O	2:UC:387:VAL:HG22	2.15	0.46
2:UE:268:VAL:CG2	2:UE:378:ILE:HG13	2.45	0.46
1:UJ:10:GLY:O	1:UJ:14:ASN:ND2	2.45	0.46
2:UK:334:THR:O	2:UK:338:LYS:HG3	2.16	0.46
2:VE:78:VAL:HG12	2:VE:92:LEU:HD21	1.96	0.46
2:VE:199:ASP:HB3	2:VE:256:GLN:HE21	1.80	0.46
2:VE:203:MET:SD	2:VE:267:PHE:HB3	2.56	0.46
2:VE:204:LEU:HD13	2:VE:231:ILE:HD12	1.97	0.46
1:VF:97:ALA:HB2	1:VF:143:THR:HB	1.95	0.46
1:VH:267:MET:HE2	1:VH:371:ASN:HB2	1.96	0.46
2:VK:238:LEU:HD23	2:VK:318:MET:CE	2.45	0.46
1:VL:48:ASN:O	1:VL:62:ARG:NH1	2.25	0.46
2:VM:291:ILE:HD13	2:VM:373:ARG:HG3	1.97	0.46
1:W:253:LEU:HD21	1:W:316:LEU:HD11	1.97	0.46
1:WD:392:LYS:HD2	1:WD:395:LEU:HD23	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:WI:419:SER:O	2:WI:423:GLU:HG3	2.14	0.46
2:WK:209:ILE:HG12	2:WK:302:LEU:HD12	1.97	0.46
2:WM:315:CYS:HB3	2:WM:351:PHE:HD1	1.77	0.46
4:XM:134:ILE:O	4:XM:147:LYS:NZ	2.48	0.46
6:0:8:SER:HA	33:2F:285:LYS:HE2	1.96	0.46
8:0J:461:GLU:HA	8:0J:464:GLU:OE2	2.15	0.46
9:0M:87:GLN:H	9:0M:87:GLN:CD	2.22	0.46
9:0N:112:GLN:HB3	9:0N:126:VAL:HG12	1.97	0.46
9:0N:537:VAL:HB	21:0w:89:LYS:NZ	2.30	0.46
12:0W:18:ASP:OD2	12:0W:25:ARG:NH1	2.47	0.46
14:0d:289:LEU:HD13	21:0w:59:GLN:HG2	1.97	0.46
16:0l:414:LEU:HA	16:0l:446:GLN:HG3	1.97	0.46
16:0l:572:LEU:HD13	16:0l:577:LEU:HD23	1.98	0.46
16:0l:654:VAL:HG21	16:0l:726:VAL:HG12	1.97	0.46
16:0k:16:ARG:NH1	16:0k:105:LEU:O	2.48	0.46
17:0n:364:ALA:HA	17:0n:367:ARG:NH1	2.30	0.46
20:0t:173:LEU:HG	20:0t:227:LEU:HD21	1.96	0.46
21:0w:471:HIS:O	21:0w:475:LEU:HD23	2.14	0.46
23:1E:324:VAL:HG12	23:1E:328:LYS:HE2	1.96	0.46
24:1H:666:TYR:CE1	24:1H:670:ARG:HG2	2.50	0.46
24:1I:570:MET:HE1	24:1I:577:LEU:CB	2.44	0.46
28:1h:172:ASP:N	28:1h:172:ASP:OD1	2.48	0.46
29:1k:135:PHE:O	29:1k:152:THR:HG21	2.16	0.46
32:2C:212:PRO:HD2	32:2C:236:PRO:HD3	1.97	0.46
34:2L:250:ARG:HH11	34:2L:250:ARG:HG2	1.79	0.46
36:2Q:52:ALA:O	36:2Q:55:THR:HG22	2.15	0.46
37:2S:99:LEU:HD22	37:2S:140:ILE:HG21	1.97	0.46
40:2Z:95:PHE:HB3	40:2Z:103:ILE:HG23	1.97	0.46
40:2Z:307:HIS:NE2	40:2Z:309:GLU:HB2	2.29	0.46
41:2e:188:ALA:HA	41:2e:191:THR:OG1	2.15	0.46
41:2l:235:LEU:O	41:2l:238:GLU:N	2.48	0.46
44:2v:194:ARG:HD3	44:2v:300:ILE:O	2.15	0.46
44:2v:237:VAL:HG12	44:2v:260:ILE:HD12	1.97	0.46
47:3D:292:ARG:HD2	47:3D:369:SER:OG	2.15	0.46
48:3G:47:TYR:HE1	48:3G:51:LEU:HD22	1.80	0.46
48:3H:83:ARG:NH1	48:3H:87:ASP:OD2	2.39	0.46
57:3h:132:PRO:HG2	59:3p:218:PRO:HB3	1.96	0.46
66:5L:123:ASN:N	66:5L:126:THR:OG1	2.48	0.46
66:5L:174:ARG:HG2	66:5L:176:PHE:H	1.79	0.46
1:A:187:LEU:HD21	1:A:408:PHE:CD1	2.50	0.46
1:A:364:SER:OG	1:A:365:VAL:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:398:TYR:HB3	1:A:408:PHE:HZ	1.80	0.46
2:AC:190:SER:O	2:AC:194:LEU:HD23	2.15	0.46
2:AI:155:GLU:HG2	2:AI:197:HIS:CE1	2.49	0.46
2:AI:264:ARG:HG3	2:AI:264:ARG:NH1	2.30	0.46
1:AJ:167:PHE:CE2	1:AJ:233:MET:HG2	2.50	0.46
2:AK:227:VAL:O	2:AK:231:ILE:HG12	2.15	0.46
1:B:358:PRO:O	16:0k:781:ARG:NH2	2.48	0.46
2:BA:324:VAL:HG12	2:BA:326:LYS:H	1.78	0.46
2:BC:223:SER:O	2:BC:227:VAL:HG23	2.14	0.46
2:BI:185:TYR:CE2	2:BI:398:MET:HE3	2.49	0.46
2:BI:257:THR:HG1	1:BJ:397:TRP:CD1	2.33	0.46
2:BI:288:VAL:HB	2:BI:327:ASP:HB3	1.96	0.46
2:BM:152:LEU:HA	2:BM:155:GLU:OE1	2.15	0.46
2:C:172:TYR:HD2	2:C:203:MET:HG3	1.78	0.46
2:CB:3:GLU:HA	2:CB:51:THR:HA	1.96	0.46
1:CC:377:MET:O	1:CC:380:ARG:HG2	2.14	0.46
2:CF:60:LYS:HZ2	2:CF:60:LYS:HG2	1.55	0.46
2:CF:215:ARG:HH11	2:CF:216:SER:HB2	1.80	0.46
1:CI:46:ARG:HH21	2:CJ:73:THR:HA	1.79	0.46
2:CJ:178:SER:HB2	2:CJ:183:GLU:OE2	2.15	0.46
1:CK:40:SER:HB3	1:CK:43:GLN:HG3	1.96	0.46
2:CL:211:ASP:O	2:CL:215:ARG:HD3	2.15	0.46
1:CM:121:ARG:O	1:CM:125:GLU:HG3	2.14	0.46
2:D:122:ILE:HG21	2:D:157:LEU:HD11	1.97	0.46
2:D:422:ARG:HH12	2:D:426:ALA:HB2	1.80	0.46
2:DB:248:LEU:HB2	2:DB:355:ILE:H	1.79	0.46
2:DD:346:TRP:HB3	1:DE:391:ARG:NH1	2.31	0.46
1:DE:219:THR:OG1	26:1Q:284:ASN:ND2	2.48	0.46
2:DF:4:ALA:HB3	2:DF:52:PHE:HE1	1.80	0.46
2:DF:134:GLY:HA2	2:DF:164:LYS:HG3	1.96	0.46
2:DF:167:LEU:HD13	2:DF:200:VAL:HB	1.97	0.46
2:DH:352:LYS:HD2	2:DH:353:CYS:N	2.29	0.46
1:DI:344:TRP:HZ3	2:DJ:403:ALA:HB2	1.81	0.46
2:DL:195:LEU:HD12	2:DL:266:HIS:NE2	2.31	0.46
1:E:66:MET:HE2	1:E:116:VAL:CG1	2.45	0.46
1:EJ:267:MET:CE	1:EJ:301:GLN:HE21	2.19	0.46
2:EK:136:MET:HE3	2:EK:138:PHE:CZ	2.48	0.46
1:EL:286:VAL:O	1:EL:290:THR:HG23	2.15	0.46
1:F:26:ASP:OD2	1:F:359:LYS:HD3	2.15	0.46
2:FA:79:ARG:NH1	59:4O:98:SER:O	2.49	0.46
1:FB:125:GLU:HG2	59:4O:140:ILE:HG23	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FC:298:PRO:HG3	2:FC:308:ARG:HH12	1.80	0.46
2:FC:398:MET:HE1	2:FC:404:PHE:CD2	2.50	0.46
1:FD:276:ARG:NH1	26:1Q:465:SER:O	2.39	0.46
1:FD:290:THR:HA	1:FD:293:MET:HE2	1.97	0.46
1:FD:341:PHE:HB3	1:FD:348:ASN:OD1	2.15	0.46
1:GD:312:THR:HG21	2:GE:404:PHE:HZ	1.79	0.46
1:GD:344:TRP:CD2	2:GE:401:LYS:HD3	2.51	0.46
2:GE:22:GLU:OE1	36:2Q:285:TYR:HB3	2.15	0.46
2:GE:107:HIS:HD2	2:GE:108:TYR:CE1	2.33	0.46
1:GF:73:MET:HA	1:GF:73:MET:HE2	1.97	0.46
2:GI:215:ARG:NH1	59:4P:1:MET:HA	2.31	0.46
2:GK:227:VAL:O	2:GK:231:ILE:HG12	2.15	0.46
1:H:86:ARG:NH1	1:I:282:ARG:HH22	2.13	0.46
2:HA:123:ARG:NH2	2:IA:297:GLU:OE2	2.47	0.46
2:HA:133:GLN:HG3	2:HA:252:LEU:HD12	1.97	0.46
2:HA:185:TYR:HE2	2:HA:398:MET:HB2	1.79	0.46
1:HB:173:PRO:HA	1:HB:176:SER:HB2	1.96	0.46
2:HI:7:ILE:HG21	2:HI:153:LEU:HD21	1.97	0.46
2:HM:227:VAL:O	2:HM:231:ILE:HG12	2.15	0.46
2:IA:333:ALA:O	2:IA:337:THR:HG23	2.15	0.46
1:ID:313:ALA:HB1	1:ID:367:PHE:CE1	2.51	0.46
1:IF:344:TRP:H	1:IF:344:TRP:CD1	2.33	0.46
1:IJ:229:VAL:O	1:IJ:233:MET:HG3	2.15	0.46
1:IJ:253:LEU:O	1:IJ:257:LEU:HB2	2.15	0.46
2:IK:252:LEU:HA	2:IK:255:PHE:CE2	2.50	0.46
2:J:105:ARG:NH1	2:J:105:ARG:HB3	2.30	0.46
2:JB:5:ILE:HD13	2:JB:64:ARG:HB3	1.97	0.46
2:JB:102:ASN:HB3	2:JB:105:ARG:HB2	1.98	0.46
1:JE:301:GLN:HE22	1:JE:377:MET:HG3	1.80	0.46
2:JH:108:TYR:HA	2:JH:112:LYS:HZ1	1.79	0.46
2:JJ:27:GLU:OE1	2:JJ:243:ARG:NH2	2.48	0.46
1:JK:237:THR:O	1:JK:241:ARG:HG3	2.15	0.46
1:JK:276:ARG:HD3	1:JK:276:ARG:HA	1.76	0.46
1:JK:309:ARG:NH2	1:JK:342:ILE:HA	2.30	0.46
2:JL:11:GLN:OE1	2:JL:15:GLN:NE2	2.48	0.46
2:K:90:GLU:OE1	2:K:91:GLN:N	2.48	0.46
1:KA:66:MET:HE1	1:KA:151:LEU:HB2	1.97	0.46
2:KB:5:ILE:HD12	2:KB:132:LEU:HD13	1.97	0.46
1:KE:18:SER:O	1:KE:22:GLU:HG3	2.15	0.46
1:KE:252:LYS:HE2	2:KF:100:ALA:HA	1.96	0.46
1:KE:301:GLN:HE22	1:KE:303:ALA:HB2	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KF:189:LEU:HD22	2:KF:417:GLU:HG3	1.97	0.46
2:KF:241:SER:OG	2:KF:250:VAL:N	2.34	0.46
2:KJ:317:LEU:HD21	2:KJ:377:MET:HE3	1.96	0.46
1:KK:293:MET:HG3	1:KK:367:PHE:HB2	1.96	0.46
1:KK:323:THR:HG21	2:KL:224:TYR:CZ	2.51	0.46
1:LA:73:MET:HE2	1:LA:73:MET:HA	1.97	0.46
1:LA:263:LEU:HD21	1:LA:421:GLU:HG3	1.97	0.46
2:LB:9:ILE:HG22	2:LB:146:GLY:HA2	1.97	0.46
2:LB:248:LEU:HG	1:LC:222:PHE:HE2	1.79	0.46
2:LD:395:PHE:CE2	2:LD:422:ARG:HB2	2.50	0.46
1:LE:293:MET:HG3	1:LE:367:PHE:HB2	1.98	0.46
1:LG:144:GLY:N	69:LG:500:GDP:O2B	2.37	0.46
1:LG:190:HIS:HB2	1:LG:414:ASN:HD22	1.80	0.46
1:LG:317:PHE:CD1	1:LG:365:VAL:HB	2.50	0.46
2:LH:165:SER:HB2	2:LH:256:GLN:HE22	1.81	0.46
1:LI:324:LYS:CD	2:LJ:222:PRO:HD2	2.34	0.46
2:LN:11:GLN:N	71:LN:501:GTP:O2B	2.47	0.46
1:LO:66:MET:N	1:LO:73:MET:HE1	2.30	0.46
1:M:11:GLN:NE2	1:M:15:GLN:OE1	2.47	0.46
2:MC:112:LYS:NZ	33:2F:48:PRO:O	2.42	0.46
1:MD:42:LEU:HD13	1:MD:356:ILE:HD11	1.97	0.46
2:MG:21:TRP:CZ2	2:MG:65:CYS:HB3	2.51	0.46
2:MG:288:VAL:HG22	2:MG:323:VAL:HG12	1.97	0.46
1:MH:211:CYS:HA	1:MH:215:LEU:HD12	1.97	0.46
2:MI:324:VAL:HG12	2:MI:326:LYS:H	1.80	0.46
1:NB:178:THR:HB	1:NB:181:GLU:HG2	1.97	0.46
2:NC:199:ASP:HB3	2:NC:256:GLN:HE21	1.79	0.46
2:NC:205:ASP:OD1	2:NC:303:THR:HA	2.15	0.46
1:ND:421:GLU:HA	1:ND:424:GLN:HG3	1.97	0.46
2:NK:191:THR:HG21	2:NK:425:LEU:HD12	1.97	0.46
2:NK:195:LEU:HA	2:NK:266:HIS:HE1	1.81	0.46
2:NM:152:LEU:O	2:NM:156:ARG:HG2	2.15	0.46
2:OC:116:ASP:OD1	2:OC:116:ASP:N	2.47	0.46
2:OC:252:LEU:HA	2:OC:255:PHE:CE2	2.51	0.46
2:OC:319:TYR:CD2	2:OC:323:VAL:HG11	2.50	0.46
1:OF:51:PHE:O	1:OF:62:ARG:NH1	2.47	0.46
2:OG:104:ALA:HB2	2:OG:413:MET:HE3	1.97	0.46
2:OG:291:ILE:HD11	2:OG:374:ALA:HA	1.97	0.46
1:OJ:207:LEU:HB3	1:OJ:225:LEU:HG	1.96	0.46
1:OJ:364:SER:OG	1:OJ:365:VAL:N	2.46	0.46
1:OJ:427:ASP:OD1	1:OJ:427:ASP:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OL:14:ASN:OD1	1:OL:65:LEU:HD12	2.15	0.46
1:P:74:ASP:HA	1:P:77:ARG:HG2	1.98	0.46
2:PA:211:ASP:OD2	2:PA:212:LEU:N	2.48	0.46
2:PC:273:ALA:HB3	2:PC:295:VAL:HG23	1.97	0.46
1:PD:100:ASN:HB3	1:PD:103:LYS:HG3	1.97	0.46
1:PD:344:TRP:CZ2	2:PE:401:LYS:HE2	2.50	0.46
2:PE:9:ILE:HB	2:PE:139:HIS:HB3	1.96	0.46
1:PF:253:LEU:HD21	1:PF:316:LEU:HD11	1.98	0.46
2:PG:275:VAL:HG23	2:PG:368:LEU:HD21	1.97	0.46
2:PK:250:VAL:HG21	2:PK:318:MET:HE1	1.96	0.46
1:PL:257:LEU:HD11	1:PL:314:SER:HB3	1.97	0.46
1:QA:15:GLN:O	1:QA:226:ASN:ND2	2.49	0.46
1:QA:165:MET:HE1	1:QA:250:LEU:HD22	1.97	0.46
1:QA:273:LEU:O	1:QA:292:GLN:NE2	2.43	0.46
2:QD:301:MET:HE1	2:QD:307:PRO:CG	2.44	0.46
1:QE:256:ASN:OD1	2:QF:181:VAL:HG22	2.14	0.46
1:QG:40:SER:HB2	28:1b:142:TYR:HD2	1.79	0.46
1:QI:152:ILE:HG23	1:QI:164:MET:HG2	1.96	0.46
2:QJ:260:VAL:HB	1:QK:397:TRP:HZ2	1.80	0.46
2:RB:209:ILE:HG21	2:RB:227:VAL:HG13	1.97	0.46
2:RB:392:ASP:HB3	2:RB:425:LEU:HD23	1.97	0.46
2:RD:217:LEU:HD21	2:RD:275:VAL:HG22	1.97	0.46
2:RF:209:ILE:HD13	2:RF:302:LEU:HD22	1.96	0.46
1:RG:257:LEU:HD21	1:RG:314:SER:HB2	1.98	0.46
1:RK:252:LYS:HD2	2:RL:101:ASN:OD1	2.16	0.46
2:RL:275:VAL:O	2:RL:275:VAL:HG13	2.15	0.46
2:SA:434:GLU:HG3	56:3d:208:PHE:CD1	2.51	0.46
2:SC:192:HIS:ND1	2:SC:424:ASP:OD1	2.36	0.46
2:SC:280:LYS:NZ	2:SC:284:GLU:OE2	2.44	0.46
2:SC:310:GLY:HA3	2:SC:383:ALA:HB2	1.97	0.46
2:SE:161:TYR:HB3	2:SE:164:LYS:HG3	1.97	0.46
1:SJ:336:LYS:HZ1	59:3p:242:VAL:HG13	1.79	0.46
2:SK:155:GLU:HA	2:SK:197:HIS:CD2	2.49	0.46
2:SK:389:ALA:N	2:SK:429:GLU:OE2	2.48	0.46
2:TA:372:GLN:HG3	2:TA:373:ARG:HE	1.80	0.46
2:TC:204:LEU:HD13	2:TC:231:ILE:HD11	1.98	0.46
1:TD:334:GLN:HE22	1:TD:348:ASN:H	1.62	0.46
2:TG:324:VAL:HG12	2:TG:326:LYS:HG2	1.97	0.46
1:TH:237:THR:O	1:TH:241:ARG:HG3	2.15	0.46
2:TI:11:GLN:N	71:TI:501:GTP:O2B	2.45	0.46
1:UB:334:GLN:HA	1:UB:341:PHE:CE2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:UE:195:LEU:HD21	2:UE:428:LEU:HD11	1.95	0.46
1:UH:267:MET:C	1:UH:268:MET:HE2	2.40	0.46
2:UI:159:VAL:HG11	62:4B:324:TRP:HZ3	1.80	0.46
1:UJ:170:ILE:HD13	1:UJ:377:MET:HE1	1.96	0.46
1:UJ:192:LEU:O	1:UJ:196:SER:HB3	2.15	0.46
1:UJ:292:GLN:HG2	1:UJ:298:ASN:ND2	2.28	0.46
2:UK:97:GLU:CD	2:UK:105:ARG:HH22	2.24	0.46
1:V:151:LEU:O	1:V:155:LEU:HD13	2.15	0.46
1:VD:73:MET:HG3	1:VD:92:PHE:HB3	1.96	0.46
1:VF:152:ILE:HD12	1:VF:164:MET:HG3	1.96	0.46
2:VG:115:VAL:HG21	2:VG:152:LEU:HG	1.98	0.46
2:VK:296:PHE:CE2	2:VK:317:LEU:HD11	2.51	0.46
1:VL:113:ILE:O	1:VL:117:LEU:HD23	2.14	0.46
1:VL:222:PHE:HD1	1:VL:225:LEU:HD12	1.81	0.46
2:WA:99:ALA:HA	2:WA:105:ARG:HD3	1.97	0.46
2:WE:213:THR:HG23	2:WE:217:LEU:HD23	1.96	0.46
2:WE:328:VAL:O	2:WE:332:ILE:HG12	2.15	0.46
2:WG:180:ALA:HB3	2:WG:183:GLU:HB2	1.97	0.46
2:WK:269:LEU:HD13	2:WK:301:MET:HE1	1.97	0.46
2:WM:69:ASP:OD2	2:WM:71:GLU:HG3	2.15	0.46
2:WM:153:LEU:O	2:WM:157:LEU:HD23	2.14	0.46
2:WM:231:ILE:O	2:WM:234:VAL:HG12	2.16	0.46
3:X:112:THR:HA	3:X:120:THR:O	2.16	0.46
3:XD:25:TRP:CD2	3:XD:61:CYS:HB2	2.50	0.46
3:XE:92:THR:HG22	3:XE:102:ARG:HG3	1.97	0.46
5:XN:22:LEU:HD11	5:XN:178:LEU:HD12	1.97	0.46
5:XN:45:SER:N	9:0L:363:GLU:O	2.47	0.46
4:XO:196:ILE:HD11	4:XO:225:LEU:HD11	1.96	0.46
5:XP:209:ILE:HG13	5:XP:248:TYR:CD1	2.50	0.46
7:0C:243:ASP:OD1	7:0C:246:LYS:HG2	2.16	0.46
7:0D:365:GLN:HA	7:0D:368:HIS:CD2	2.51	0.46
9:0M:182:ASP:O	9:0M:186:ARG:N	2.48	0.46
11:0U:324:LEU:HD12	46:3B:240:TYR:HB3	1.98	0.46
13:0a:90:LEU:H	13:0a:90:LEU:HD23	1.80	0.46
14:0d:72:ASP:OD1	14:0d:73:GLY:N	2.48	0.46
16:0k:60:GLU:O	16:0k:63:ARG:NH1	2.48	0.46
17:0n:250:VAL:N	42:2r:105:ASN:HD21	2.13	0.46
23:1A:198:TRP:NE1	23:1A:202:GLU:OE1	2.49	0.46
23:1F:359:LEU:O	23:1F:363:GLN:HG3	2.15	0.46
24:1I:479:ARG:NH2	24:1I:489:ASP:OD2	2.48	0.46
25:1O:149:SER:C	25:1O:151:LEU:H	2.21	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:1O:155:LYS:NZ	25:1O:158:SER:HA	2.30	0.46
25:1O:171:ASP:OD1	25:1O:172:ILE:N	2.48	0.46
27:1T:749:GLY:HA2	27:1T:752:MET:HE3	1.97	0.46
41:2o:457:ARG:HH22	41:2o:458:LEU:HD23	1.79	0.46
41:2p:436:GLU:O	41:2p:439:ARG:HD3	2.15	0.46
42:2r:249:ILE:O	42:2r:253:LEU:HG	2.15	0.46
43:2t:307:THR:H	43:2t:310:GLU:CD	2.23	0.46
44:2w:343:VAL:HG13	44:2w:349:ILE:HB	1.97	0.46
45:2y:337:ARG:HA	45:2y:340:THR:HG22	1.98	0.46
49:3P:336:VAL:HG21	49:3P:389:LEU:HD23	1.97	0.46
55:3b:22:GLN:HG3	55:3b:25:ARG:HH22	1.79	0.46
57:3f:88:VAL:HG13	57:3f:92:LYS:HG3	1.96	0.46
60:3r:60:GLN:HA	60:3r:63:ARG:NH1	2.30	0.46
59:4a:287:ASN:O	59:4a:289:PRO:HD3	2.15	0.46
66:5L:172:LYS:NZ	66:5L:197:PHE:O	2.32	0.46
68:5S:77:LEU:HA	68:5S:80:ARG:HB3	1.97	0.46
1:AB:256:ASN:C	1:AB:257:LEU:HD12	2.40	0.46
2:AE:298:PRO:HA	2:AE:301:MET:HE3	1.97	0.46
1:AF:240:LEU:HD11	1:AF:250:LEU:HD23	1.96	0.46
2:AI:261:PRO:HG3	2:AI:313:MET:HE2	1.97	0.46
1:AJ:299:MET:HE1	1:AJ:367:PHE:CE2	2.49	0.46
2:AK:191:THR:HA	2:AK:194:LEU:HB2	1.95	0.46
2:AK:292:THR:HG21	2:AK:331:ALA:HB1	1.98	0.46
1:AL:77:ARG:HA	1:AL:82:GLY:HA3	1.97	0.46
1:AL:182:PRO:HD2	1:AL:388:MET:HE1	1.97	0.46
1:AN:170:ILE:HD11	1:AN:301:GLN:NE2	2.31	0.46
2:BA:102:ASN:HB3	2:BA:105:ARG:HB3	1.97	0.46
1:BB:282:ARG:NH2	1:BB:292:GLN:OE1	2.42	0.46
2:BC:340:THR:HG23	2:BC:341:ILE:HG23	1.97	0.46
1:BF:200:MET:HE1	1:BF:236:VAL:HG21	1.97	0.46
2:BG:196:GLU:HG3	2:BG:197:HIS:CE1	2.50	0.46
2:BG:252:LEU:HA	2:BG:255:PHE:CE2	2.50	0.46
2:BG:271:SER:HB3	2:BG:301:MET:HA	1.98	0.46
2:BG:367:ASP:O	16:0k:48:ARG:NH1	2.48	0.46
2:BI:298:PRO:HB3	2:BI:307:PRO:HD2	1.97	0.46
2:BI:392:ASP:HB3	2:BI:425:LEU:HD23	1.96	0.46
1:BJ:45:GLU:OE1	1:BJ:46:ARG:HG2	2.15	0.46
1:BJ:322:SER:HA	2:BK:223:SER:HB2	1.97	0.46
1:CA:21:TRP:CD1	1:CA:85:PHE:HE1	2.33	0.46
2:CB:195:LEU:HA	2:CB:266:HIS:HE1	1.79	0.46
2:CB:259:LEU:HD21	2:CB:268:VAL:HG11	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CD:301:MET:HE3	2:CD:307:PRO:HG2	1.96	0.46
2:CD:346:TRP:CD1	1:CE:391:ARG:HG3	2.51	0.46
1:CE:267:MET:C	1:CE:268:MET:HE2	2.39	0.46
1:CG:218:THR:HG22	1:CG:219:THR:HG23	1.98	0.46
1:CI:293:MET:HG3	1:CI:367:PHE:HB2	1.97	0.46
1:CI:311:LEU:HD23	1:CI:342:ILE:HD12	1.97	0.46
2:CJ:275:VAL:HG13	2:CJ:275:VAL:O	2.15	0.46
1:DC:208:TYR:CE1	1:DC:225:LEU:HD11	2.50	0.46
1:DE:209:ASP:HA	1:DE:212:PHE:HB2	1.98	0.46
1:DE:270:PHE:CE2	1:DE:272:PRO:HD2	2.50	0.46
1:DE:324:LYS:HE2	2:DF:222:PRO:HD2	1.97	0.46
2:DF:220:GLU:OE2	25:1O:701:GLY:N	2.37	0.46
1:DI:143:THR:N	69:DI:500:GDP:O2B	2.48	0.46
1:DI:343:GLU:O	1:DI:346:PRO:HD3	2.16	0.46
2:DL:223:SER:OG	2:DL:224:TYR:N	2.49	0.46
1:E:165:MET:HE2	1:E:167:PHE:CE1	2.50	0.46
1:EB:54:SER:OG	1:EB:55:SER:N	2.48	0.46
1:EB:78:ALA:HB3	27:1S:529:LYS:HD3	1.96	0.46
2:EC:257:THR:HA	1:ED:397:TRP:CE2	2.50	0.46
2:EC:396:ASP:OD2	2:EC:422:ARG:NH2	2.46	0.46
1:EF:313:ALA:HB1	1:EF:367:PHE:CE1	2.50	0.46
1:EJ:230:ALA:HA	1:EJ:233:MET:HE3	1.96	0.46
2:EK:217:LEU:HD12	2:EK:367:ASP:HB2	1.98	0.46
2:FA:17:GLY:HA2	2:FA:20:CYS:SG	2.55	0.46
2:FC:243:ARG:HB2	2:FC:244:PHE:CD1	2.50	0.46
1:FD:232:VAL:O	1:FD:236:VAL:HG13	2.15	0.46
1:FH:228:LEU:O	1:FH:232:VAL:HG23	2.15	0.46
2:FI:142:GLY:CA	2:FI:183:GLU:HG3	2.45	0.46
1:GB:112:LEU:O	1:GB:116:VAL:HG23	2.15	0.46
1:GD:156:ARG:HH22	1:GD:197:ASP:CG	2.23	0.46
2:GE:311:LYS:HG2	2:GE:342:GLN:HG3	1.98	0.46
1:GH:10:GLY:HA2	1:GH:143:THR:HG23	1.97	0.46
1:GJ:66:MET:SD	1:GJ:151:LEU:HD11	2.55	0.46
2:GK:7:ILE:HG12	2:GK:122:ILE:HD11	1.96	0.46
1:GL:32:PRO:HG3	1:GL:81:TYR:CZ	2.51	0.46
2:HA:338:LYS:HZ1	65:5G:114:VAL:HG11	1.80	0.46
1:HB:267:MET:HB3	1:HB:299:MET:CE	2.44	0.46
2:HE:155:GLU:HG2	2:HE:197:HIS:CD2	2.50	0.46
1:HJ:101:TRP:HZ3	1:HJ:106:TYR:HE1	1.63	0.46
1:HJ:175:VAL:O	1:HJ:175:VAL:HG12	2.15	0.46
1:HL:253:LEU:HD12	1:HL:368:ILE:HG21	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HM:373:ARG:HG3	2:HM:373:ARG:HH11	1.81	0.46
1:I:255:VAL:HG11	2:IA:100:ALA:O	2.16	0.46
2:IA:87:PHE:HB3	2:IA:92:LEU:HD21	1.97	0.46
1:IB:191:GLN:O	1:IB:195:ASN:HB2	2.15	0.46
2:IE:218:ASP:OD1	7:0D:64:ARG:HB3	2.15	0.46
1:IJ:317:PHE:HB2	1:IJ:353:ILE:HD13	1.96	0.46
2:IK:265:ILE:HD11	2:IK:431:ASP:OD2	2.15	0.46
1:IL:25:SER:HB2	1:IL:30:VAL:HB	1.97	0.46
2:IM:426:ALA:HA	2:IM:429:GLU:OE2	2.15	0.46
1:JA:252:LYS:NZ	2:JB:101:ASN:HD22	2.14	0.46
1:JE:112:LEU:O	1:JE:116:VAL:HG23	2.15	0.46
2:JF:101:ASN:HA	2:JF:144:GLY:N	2.30	0.46
2:JH:271:SER:HA	2:JH:302:LEU:HD23	1.97	0.46
1:JI:133:PHE:CD2	1:JI:155:LEU:HD13	2.50	0.46
1:JI:163:ILE:HA	1:JI:197:ASP:OD2	2.15	0.46
1:JI:324:LYS:HB3	2:JJ:210:TYR:CG	2.49	0.46
2:JJ:236:SER:HB2	2:JJ:243:ARG:HH22	1.80	0.46
2:JN:173:PRO:HG3	2:JN:183:GLU:HG2	1.96	0.46
1:KA:208:TYR:CZ	1:KA:225:LEU:HD11	2.50	0.46
2:KB:145:THR:HG22	71:KB:501:GTP:PG	2.56	0.46
2:KD:19:ALA:O	2:KD:22:GLU:HG2	2.16	0.46
2:KD:264:ARG:HG2	31:1q:12:TYR:CE1	2.50	0.46
1:KG:66:MET:HE1	1:KG:151:LEU:HD22	1.97	0.46
1:KG:145:SER:HB2	1:KG:188:SER:OG	2.15	0.46
2:KH:326:LYS:NZ	1:KI:220:PRO:HD2	2.30	0.46
1:KI:236:VAL:HG23	1:KI:237:THR:HG23	1.97	0.46
2:KN:269:LEU:HD22	2:KN:301:MET:HE1	1.95	0.46
1:LA:149:THR:O	1:LA:152:ILE:HG22	2.16	0.46
1:LA:260:PHE:HD2	1:LA:263:LEU:HD12	1.80	0.46
1:LA:406:MET:O	1:LA:409:THR:OG1	2.28	0.46
2:LB:259:LEU:HG	2:LB:268:VAL:HG11	1.97	0.46
2:LJ:431:ASP:CG	22:0z:144:LYS:H	2.22	0.46
1:LK:165:MET:HE1	1:LK:236:VAL:HG21	1.96	0.46
1:LK:391:ARG:HD2	22:0z:151:LEU:HD21	1.96	0.46
2:LN:105:ARG:HB2	2:LN:411:GLU:HG2	1.97	0.46
2:LN:113:GLU:HA	33:2I:172:CYS:SG	2.56	0.46
1:LO:20:PHE:HA	1:LO:230:ALA:HB1	1.97	0.46
1:LO:61:PRO:HD3	1:LO:84:LEU:HG	1.97	0.46
1:LO:117:LEU:HB3	1:LO:121:ARG:NH2	2.30	0.46
1:LO:150:LEU:O	1:LO:154:LYS:HB2	2.15	0.46
1:LO:207:LEU:HB3	1:LO:225:LEU:HD22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MA:257:THR:HG21	1:MB:98:GLY:O	2.16	0.46
1:MB:362:LYS:NZ	23:1A:204:ASP:OD1	2.39	0.46
1:MD:252:LYS:HG3	2:ME:101:ASN:HB2	1.97	0.46
2:ME:203:MET:HE3	2:ME:267:PHE:HB3	1.97	0.46
1:ML:184:ASN:OD1	1:ML:398:TYR:OH	2.20	0.46
1:ML:255:VAL:HG11	2:MM:100:ALA:O	2.15	0.46
2:MM:11:GLN:HG3	2:MM:74:VAL:HG11	1.97	0.46
1:MN:145:SER:HB2	1:MN:188:SER:OG	2.15	0.46
1:N:293:MET:HE1	1:N:365:VAL:CG1	2.44	0.46
2:NA:346:TRP:O	1:NB:388:MET:HG2	2.15	0.46
1:NB:20:PHE:HB2	1:NB:233:MET:CE	2.45	0.46
2:NC:317:LEU:HD12	2:NC:319:TYR:CE2	2.49	0.46
1:NF:208:TYR:CE1	1:NF:225:LEU:HD11	2.51	0.46
2:NG:296:PHE:CZ	2:NG:335:ILE:HG21	2.50	0.46
2:NG:317:LEU:HD11	2:NG:377:MET:HE3	1.97	0.46
1:NH:316:LEU:HB2	1:NH:366:THR:OG1	2.15	0.46
2:NI:332:ILE:O	2:NI:336:LYS:HG2	2.15	0.46
1:NJ:102:ALA:HB2	1:NJ:403:MET:HE2	1.96	0.46
1:NJ:156:ARG:NH2	1:NJ:197:ASP:OD1	2.48	0.46
1:NJ:267:MET:HE1	1:NJ:299:MET:SD	2.56	0.46
2:NK:271:SER:HG	2:NK:295:VAL:HG13	1.81	0.46
1:O:259:PRO:HA	2:OA:404:PHE:CD1	2.50	0.46
1:O:276:ARG:HE	41:2n:175:ILE:HG21	1.80	0.46
1:OB:377:MET:HA	1:OB:380:ARG:HB3	1.97	0.46
2:OC:127:ASP:OD1	2:OC:128:ASN:N	2.49	0.46
1:OD:3:GLU:HA	1:OD:49:VAL:HA	1.97	0.46
2:OE:5:ILE:HD11	2:OE:129:CYS:SG	2.54	0.46
2:OE:85:GLN:HE22	41:2k:137:VAL:HA	1.81	0.46
2:OG:311:LYS:HD3	2:OG:344:VAL:HA	1.97	0.46
1:OH:129:CYS:HB2	2:OI:96:LYS:HE2	1.98	0.46
1:OH:330:MET:HA	1:OH:333:VAL:HG12	1.96	0.46
2:OI:268:VAL:HG23	2:OI:379:ALA:C	2.40	0.46
2:OM:121:ARG:HD3	2:OM:124:LYS:NZ	2.31	0.46
1:PB:139:LEU:HA	1:PB:145:SER:HB3	1.97	0.46
2:PC:270:THR:HG23	2:PC:302:LEU:HB2	1.97	0.46
1:PD:423:GLN:OE1	1:PD:426:GLN:NE2	2.48	0.46
1:PH:109:GLY:HA2	1:PH:147:MET:HE2	1.97	0.46
2:PK:84:ARG:HG3	2:PK:85:GLN:N	2.30	0.46
1:PL:187:LEU:HD11	1:PL:408:PHE:CD1	2.49	0.46
2:PM:288:VAL:HA	2:PM:291:ILE:HG12	1.98	0.46
1:QA:175:VAL:HG12	1:QA:175:VAL:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QA:255:VAL:HG11	2:QB:100:ALA:O	2.15	0.46
1:QC:177:ASP:OD1	69:QC:500:GDP:O3'	2.26	0.46
2:QD:72:PRO:O	2:QD:76:ASP:HB2	2.16	0.46
2:QF:265:ILE:HG23	2:QF:432:TYR:CE2	2.50	0.46
1:QI:2:ARG:NH2	2:QJ:72:PRO:HD2	2.28	0.46
1:QI:163:ILE:HD11	1:QI:251:ARG:NE	2.30	0.46
2:QL:213:THR:O	2:QL:217:LEU:HB2	2.15	0.46
2:R:323:VAL:HG22	2:R:373:ARG:HG2	1.96	0.46
2:R:372:GLN:HG3	28:1X:169:PHE:CZ	2.51	0.46
1:RA:276:ARG:HH22	41:2e:452:VAL:HG11	1.81	0.46
2:RB:155:GLU:HG3	56:3d:188:LEU:HD23	1.97	0.46
1:RC:247:ASN:ND2	2:RD:73:THR:HG23	2.30	0.46
2:RF:326:LYS:HD2	1:RG:212:PHE:CZ	2.49	0.46
1:RG:12:CYS:SG	1:RG:138:SER:HB3	2.56	0.46
1:SB:276:ARG:NH2	41:2b:175:ILE:HD12	2.30	0.46
1:SB:404:ASP:OD1	1:SB:405:GLU:N	2.48	0.46
1:SD:226:ASN:OD1	69:SD:500:GDP:N1	2.42	0.46
2:SG:189:LEU:HD22	2:SG:413:MET:HE1	1.97	0.46
1:T:104:GLY:O	1:T:147:MET:HB3	2.16	0.46
2:TA:79:ARG:O	2:TA:84:ARG:HB3	2.16	0.46
2:TC:296:PHE:CE1	2:TC:317:LEU:HD21	2.46	0.46
1:TD:19:LYS:HD3	1:TD:22:GLU:OE2	2.15	0.46
1:TD:309:ARG:HE	1:TD:342:ILE:HG22	1.81	0.46
1:TF:113:ILE:HG13	1:TF:117:LEU:HD23	1.96	0.46
1:TF:329:GLN:HE21	61:3w:274:ASN:ND2	2.14	0.46
2:TI:172:TYR:HB2	2:TI:203:MET:HE1	1.97	0.46
1:TJ:8:GLN:HE21	1:TJ:65:LEU:HG	1.79	0.46
2:TK:176:GLN:N	2:TK:176:GLN:OE1	2.48	0.46
2:TK:308:ARG:NH2	61:3x:105:ILE:O	2.49	0.46
2:UK:105:ARG:HG2	2:UK:411:GLU:HG2	1.96	0.46
2:UK:173:PRO:HG2	2:UK:187:CYS:HB2	1.96	0.46
2:UK:189:LEU:HD13	2:UK:413:MET:HE1	1.96	0.46
1:UL:175:VAL:O	1:UL:175:VAL:HG12	2.15	0.46
1:UL:238:CYS:SG	1:UL:318:ARG:HD3	2.55	0.46
1:VB:232:VAL:HG13	1:VB:268:MET:HE2	1.96	0.46
2:VC:155:GLU:HG2	2:VC:197:HIS:CE1	2.50	0.46
1:VD:3:GLU:OE2	1:VD:62:ARG:HD3	2.15	0.46
2:VE:66:LEU:HG	2:VE:68:LEU:HG	1.96	0.46
1:VF:192:LEU:O	1:VF:196:SER:HB2	2.15	0.46
1:W:155:LEU:HA	1:W:158:GLU:HG2	1.97	0.46
2:WA:169:TYR:HE1	2:WA:235:VAL:HG22	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:WB:311:LEU:O	1:WB:348:ASN:ND2	2.46	0.46
2:WC:258:ASN:HD22	1:WD:179:VAL:HG22	1.78	0.46
1:WD:187:LEU:HD22	1:WD:403:MET:HE1	1.97	0.46
2:WI:155:GLU:HG2	2:WI:197:HIS:ND1	2.31	0.46
3:XC:168:SER:HB2	3:XC:172:TYR:HE1	1.79	0.46
3:XD:115:LYS:HB3	3:XD:116:PRO:HD2	1.97	0.46
5:XP:130:THR:HA	5:XP:176:ARG:HH21	1.80	0.46
4:XQ:164:ASP:CG	4:XQ:167:ARG:HH21	2.23	0.46
4:XQ:178:ARG:HD3	4:XQ:217:ALA:HB1	1.97	0.46
8:0F:48:ILE:O	8:0F:52:ILE:HG12	2.14	0.46
8:0J:388:ALA:O	8:0J:392:ILE:HG12	2.15	0.46
9:0L:178:VAL:HG23	9:0L:193:ILE:HD11	1.98	0.46
10:0R:254:LYS:O	10:0R:258:LEU:HD23	2.16	0.46
11:0U:295:LEU:HA	46:3B:23:GLN:HE22	1.79	0.46
16:0l:354:LEU:HA	16:0l:357:ILE:HG12	1.97	0.46
21:0w:30:ARG:HH11	21:0w:35:GLY:HA3	1.79	0.46
21:0w:37:ALA:HB1	21:0w:42:LEU:HD12	1.96	0.46
25:1O:332:ARG:O	25:1O:333:GLN:NE2	2.47	0.46
28:1b:4:LEU:N	41:2h:359:MET:HE1	2.31	0.46
28:1c:6:SER:OG	28:1c:9:SER:OG	2.28	0.46
29:1j:200:PHE:CD1	29:1j:206:ALA:HA	2.50	0.46
35:2O:25:ASN:ND2	51:X1:187:GLN:HB2	2.31	0.46
41:2e:389:MET:HA	41:2e:392:ARG:HG2	1.98	0.46
41:2o:427:ARG:NH2	41:2o:428:LYS:HE3	2.17	0.46
44:2w:228:MET:HE1	44:2w:296:PHE:CD2	2.51	0.46
46:3B:353:LEU:HD22	46:3B:430:LEU:HD11	1.97	0.46
47:3D:256:VAL:HG12	47:3D:258:ALA:H	1.79	0.46
57:3i:158:LYS:O	57:3i:162:GLU:OE1	2.34	0.46
60:3r:143:ALA:O	60:3r:146:SER:OG	2.31	0.46
64:5B:79:LYS:HB2	65:5G:69:LEU:HD13	1.97	0.46
64:5B:174:THR:HG21	65:5G:170:HIS:CE1	2.50	0.46
2:AA:237:SER:HA	2:AA:320:ARG:HH11	1.81	0.46
1:AB:8:GLN:HG2	1:AB:17:GLY:HA3	1.97	0.46
1:AB:322:SER:O	1:AB:326:VAL:HG23	2.15	0.46
2:AC:324:VAL:HG12	2:AC:326:LYS:N	2.28	0.46
1:AD:67:ASP:OD1	1:AD:143:THR:HG21	2.16	0.46
1:AF:350:LYS:NZ	2:AG:101:ASN:OD1	2.41	0.46
2:AG:134:GLY:HA2	2:AG:164:LYS:HG2	1.97	0.46
1:AH:105:HIS:CE1	1:AH:150:LEU:HB2	2.50	0.46
2:AK:387:VAL:HA	2:AK:390:ARG:HH12	1.80	0.46
1:AL:344:TRP:HB3	1:AL:430:VAL:HG12	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:24:ILE:HD11	1:AN:241:ARG:NE	2.30	0.46
1:BF:200:MET:HE3	1:BF:368:ILE:HD12	1.97	0.46
1:BF:255:VAL:HG11	2:BG:100:ALA:O	2.16	0.46
2:BG:255:PHE:O	2:BG:259:LEU:HD23	2.16	0.46
1:BH:287:ALA:O	1:BH:291:GLN:HG2	2.16	0.46
2:BK:206:ASN:OD1	71:BK:501:GTP:O2'	2.31	0.46
1:BL:371:ASN:OD1	1:BL:372:THR:N	2.48	0.46
2:BM:219:ILE:HG23	16:0l:306:ARG:HH21	1.81	0.46
2:BM:258:ASN:ND2	2:BM:352:LYS:HD3	2.30	0.46
2:C:52:PHE:CE2	2:C:243:ARG:HD3	2.51	0.46
2:C:214:ARG:NH1	2:C:220:GLU:O	2.48	0.46
1:CA:171:PRO:HG3	1:CA:181:GLU:HG2	1.98	0.46
1:CA:252:LYS:HG3	2:CB:100:ALA:HA	1.97	0.46
2:CD:205:ASP:OD1	2:CD:303:THR:HA	2.16	0.46
2:CD:241:SER:O	2:CD:249:ASN:ND2	2.35	0.46
1:CG:286:VAL:HG11	1:CG:325:GLU:HB3	1.97	0.46
1:CI:255:VAL:HG11	2:CJ:100:ALA:O	2.16	0.46
2:D:1:MET:HG3	2:D:2:ARG:HG3	1.97	0.46
2:D:188:VAL:HG21	2:D:395:PHE:HB2	1.97	0.46
2:DB:291:ILE:O	2:DB:295:VAL:HG23	2.15	0.46
2:DD:98:ASP:OD1	2:DD:98:ASP:N	2.47	0.46
1:DG:148:GLY:O	1:DG:152:ILE:HG12	2.14	0.46
1:DM:309:ARG:HG2	1:DM:340:TYR:C	2.40	0.46
1:E:256:ASN:HD22	1:E:350:LYS:HD3	1.80	0.46
1:E:310:TYR:CE1	1:E:371:ASN:HB2	2.50	0.46
1:EB:2:ARG:NH1	2:EC:72:PRO:HD2	2.30	0.46
1:EB:42:LEU:HD12	1:EB:356:ILE:HD11	1.97	0.46
2:EC:240:ALA:HB2	2:EC:243:ARG:HH21	1.80	0.46
2:EG:5:ILE:HD12	2:EG:125:LEU:HB3	1.98	0.46
2:EK:52:PHE:HZ	2:EK:239:THR:HG21	1.79	0.46
2:EK:301:MET:HG2	2:EK:303:THR:H	1.80	0.46
1:EL:389:PHE:HE1	1:EL:395:LEU:HD13	1.79	0.46
1:F:293:MET:HG3	1:F:367:PHE:HB2	1.98	0.46
1:FB:166:THR:OG1	1:FB:199:SER:HA	2.15	0.46
2:FC:69:ASP:OD1	2:FC:71:GLU:HG3	2.16	0.46
1:FF:156:ARG:HD3	1:FF:164:MET:HG3	1.97	0.46
1:FF:200:MET:HB3	1:FF:268:MET:HE2	1.97	0.46
2:FG:204:LEU:HD13	2:FG:231:ILE:HD12	1.98	0.46
2:FG:257:THR:HG21	1:FH:98:GLY:O	2.15	0.46
1:FH:171:PRO:HG3	1:FH:181:GLU:OE1	2.16	0.46
2:FI:245:ASP:HA	2:FI:249:ASN:HD21	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FL:27:GLU:OE1	1:FL:241:ARG:NH2	2.49	0.46
1:FL:267:MET:N	1:FL:369:GLY:O	2.26	0.46
2:GA:298:PRO:HG3	2:GA:308:ARG:NH2	2.29	0.46
2:GA:430:LYS:O	2:GA:433:GLU:HG3	2.15	0.46
1:GB:308:GLY:HA3	1:GB:373:CYS:HB3	1.96	0.46
2:GC:315:CYS:HB3	2:GC:377:MET:HE1	1.97	0.46
2:GC:388:PHE:HA	2:GC:391:ILE:HG22	1.97	0.46
2:GE:139:HIS:O	2:GE:170:THR:HA	2.15	0.46
1:GF:152:ILE:HG23	1:GF:164:MET:HG2	1.98	0.46
1:GF:161:ASP:OD1	1:GF:162:ARG:NH1	2.49	0.46
1:GH:237:THR:O	1:GH:241:ARG:HG3	2.16	0.46
1:GH:382:GLY:O	1:GH:386:THR:HG23	2.14	0.46
2:GI:203:MET:HE3	2:GI:384:ILE:CD1	2.45	0.46
1:GJ:404:ASP:HB3	66:5L:168:ARG:NH2	2.31	0.46
1:GL:301:GLN:NE2	1:GL:303:ALA:HB3	2.25	0.46
1:GL:322:SER:N	1:GL:325:GLU:OE2	2.48	0.46
1:H:49:VAL:HG12	1:H:50:TYR:CD2	2.51	0.46
1:H:219:THR:O	1:H:219:THR:HG23	2.15	0.46
2:HC:345:ASP:OD1	2:HC:346:TRP:N	2.48	0.46
1:HF:314:SER:HB3	1:HF:368:ILE:CG2	2.46	0.46
1:HH:66:MET:SD	1:HH:116:VAL:HG11	2.56	0.46
2:HI:31:GLN:HG2	2:HI:37:PRO:HD3	1.96	0.46
2:HI:122:ILE:HG21	2:HI:157:LEU:HD21	1.98	0.46
1:HJ:374:ILE:HA	1:HJ:377:MET:HE1	1.98	0.46
1:HJ:389:PHE:O	1:HJ:392:LYS:NZ	2.45	0.46
2:HK:282:TYR:HB3	17:0n:148:LEU:HD22	1.98	0.46
1:HL:77:ARG:HD3	1:HL:90:PHE:HE2	1.79	0.46
2:IA:335:ILE:HA	2:IA:338:LYS:HZ2	1.80	0.46
1:IB:245:GLN:HB2	1:IB:353:ILE:HB	1.96	0.46
2:IG:439:SER:HB3	1:IH:391:ARG:HD3	1.97	0.46
2:II:392:ASP:OD1	2:II:393:HIS:N	2.48	0.46
2:IK:129:CYS:SG	2:IK:132:LEU:HB2	2.55	0.46
2:J:137:VAL:HG13	2:J:168:GLY:HA2	1.98	0.46
2:J:344:VAL:HG22	2:J:345:ASP:H	1.80	0.46
1:JC:91:ILE:CD1	1:JC:116:VAL:HG22	2.46	0.46
2:JD:251:ASP:H	2:JD:254:GLU:CG	2.28	0.46
2:JF:288:VAL:HB	2:JF:327:ASP:HB3	1.96	0.46
2:JH:384:ILE:O	2:JH:387:VAL:HG22	2.14	0.46
1:JK:200:MET:HB2	1:JK:266:PHE:HB2	1.96	0.46
2:JL:11:GLN:HE21	71:JL:501:GTP:PA	2.39	0.46
1:JM:330:MET:SD	1:JM:349:ILE:HG21	2.56	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JN:279:GLU:OE2	2:JN:280:LYS:HG2	2.16	0.46
2:K:301:MET:HE1	2:K:307:PRO:HG3	1.97	0.46
1:KA:66:MET:SD	1:KA:151:LEU:HD22	2.56	0.46
1:KA:308:GLY:HA3	1:KA:373:CYS:HB3	1.98	0.46
2:KB:219:ILE:HD11	2:KB:222:PRO:HB3	1.96	0.46
2:KB:271:SER:HA	2:KB:301:MET:HA	1.98	0.46
1:KC:33:THR:HG23	1:KC:35:THR:HG23	1.95	0.46
2:KF:1:MET:HE2	2:KF:130:THR:HG23	1.97	0.46
1:KG:323:THR:OG1	2:KH:210:TYR:OH	2.31	0.46
1:KG:344:TRP:CE3	1:KG:345:ILE:HG13	2.50	0.46
1:KI:21:TRP:CZ3	1:KI:61:PRO:HB3	2.50	0.46
1:KK:3:GLU:O	1:KK:131:GLN:N	2.48	0.46
1:KK:202:ILE:HD13	1:KK:268:MET:HG3	1.96	0.46
1:KK:376:GLU:O	1:KK:380:ARG:NH1	2.45	0.46
2:KN:169:TYR:CE2	2:KN:235:VAL:HG22	2.51	0.46
2:KN:269:LEU:HD13	2:KN:301:MET:HE3	1.98	0.46
2:L:96:LYS:HE2	2:L:96:LYS:HA	1.96	0.46
2:L:209:ILE:HG23	2:L:230:LEU:HD23	1.97	0.46
2:L:340:THR:HG23	2:L:341:ILE:HG23	1.98	0.46
2:LB:58:ALA:N	23:1A:233:GLU:OE2	2.48	0.46
1:LC:334:GLN:HE21	1:LC:349:ILE:HG13	1.79	0.46
1:LE:381:VAL:HG13	1:LE:415:MET:HE1	1.96	0.46
1:LG:12:CYS:O	1:LG:16:ILE:HG12	2.16	0.46
1:LG:19:LYS:HZ3	1:LG:227:HIS:HB2	1.80	0.46
1:LG:222:PHE:HA	1:LG:225:LEU:HB2	1.97	0.46
1:LI:323:THR:HG21	2:LJ:224:TYR:CZ	2.50	0.46
2:LJ:167:LEU:HD11	2:LJ:255:PHE:HE1	1.79	0.46
1:LM:322:SER:HB3	1:LM:325:GLU:CD	2.39	0.46
1:LM:330:MET:SD	1:LM:349:ILE:HG21	2.56	0.46
1:LO:66:MET:SD	1:LO:147:MET:HG2	2.55	0.46
1:LO:109:GLY:HA2	1:LO:147:MET:HE2	1.97	0.46
1:LO:163:ILE:HD12	1:LO:163:ILE:H	1.80	0.46
1:M:385:PHE:CE2	1:M:412:GLU:HB2	2.50	0.46
2:MA:169:TYR:HB3	2:MA:204:LEU:HD12	1.98	0.46
2:MA:376:CYS:SG	2:MA:377:MET:N	2.88	0.46
2:MC:117:LEU:HD11	2:MC:121:ARG:NH2	2.31	0.46
1:MD:85:PHE:HB2	1:MD:90:PHE:HE1	1.81	0.46
2:ME:21:TRP:CZ2	2:ME:65:CYS:HB3	2.50	0.46
2:ME:340:THR:HG21	33:2G:185:THR:H	1.80	0.46
1:MF:65:LEU:HB3	1:MF:73:MET:HE1	1.96	0.46
1:MF:110:ALA:O	1:MF:113:ILE:HG22	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MF:113:ILE:O	1:MF:117:LEU:HD23	2.16	0.46
2:MG:178:SER:HB3	2:MG:183:GLU:OE1	2.15	0.46
2:MG:328:VAL:O	2:MG:332:ILE:HG12	2.15	0.46
1:MH:46:ARG:NH2	2:MI:76:ASP:OD2	2.48	0.46
2:MM:141:VAL:HG13	2:MM:170:THR:HG21	1.98	0.46
1:MN:383:GLU:OE2	33:2I:136:ARG:NH2	2.48	0.46
1:N:294:PHE:CD2	1:N:333:VAL:HG11	2.50	0.46
2:NC:273:ALA:HB3	2:NC:295:VAL:CG2	2.45	0.46
2:NG:332:ILE:HG23	2:NG:351:PHE:CD2	2.51	0.46
1:O:320:ARG:HH21	28:1g:143:VAL:HG22	1.80	0.46
1:O:321:MET:HG2	1:O:363:MET:HE1	1.97	0.46
1:OB:11:GLN:NE2	69:OB:500:GDP:O2A	2.39	0.46
1:OD:110:ALA:O	1:OD:113:ILE:HG22	2.15	0.46
1:OD:273:LEU:HA	1:OD:273:LEU:HD23	1.81	0.46
1:OF:18:SER:O	1:OF:22:GLU:HG2	2.16	0.46
1:OF:206:ALA:HB2	1:OF:302:ALA:HB2	1.98	0.46
1:OH:175:VAL:O	1:OH:175:VAL:HG12	2.15	0.46
2:OI:47:ASP:N	2:OI:47:ASP:OD1	2.49	0.46
2:OI:205:ASP:OD2	2:OI:303:THR:HA	2.14	0.46
1:OJ:293:MET:HE2	1:OJ:365:VAL:HG21	1.96	0.46
2:OK:47:ASP:N	2:OK:47:ASP:OD1	2.45	0.46
1:OL:64:VAL:HG12	1:OL:66:MET:SD	2.56	0.46
1:OL:255:VAL:HG23	2:OM:407:TRP:CG	2.50	0.46
2:PA:103:TYR:CD2	2:PA:189:LEU:HB3	2.50	0.46
1:PB:342:ILE:HD11	1:PB:345:ILE:HD12	1.98	0.46
2:PC:387:VAL:HA	2:PC:390:ARG:NH1	2.31	0.46
2:PC:387:VAL:O	2:PC:391:ILE:HG12	2.15	0.46
1:PD:189:VAL:O	1:PD:193:VAL:HG23	2.16	0.46
1:PF:290:THR:HA	1:PF:293:MET:HB2	1.96	0.46
1:PH:374:ILE:O	1:PH:377:MET:HG2	2.15	0.46
2:PI:84:ARG:HG3	2:PI:85:GLN:HE21	1.80	0.46
1:PJ:2:ARG:NH1	2:PK:72:PRO:HG3	2.29	0.46
1:PJ:391:ARG:C	57:3g:25:GLN:HE22	2.23	0.46
2:PM:155:GLU:HG3	2:PM:197:HIS:CD2	2.51	0.46
2:PM:319:TYR:CE2	2:PM:328:VAL:HG22	2.50	0.46
2:Q:317:LEU:O	2:Q:318:MET:HE2	2.15	0.46
2:Q:425:LEU:O	2:Q:429:GLU:HG2	2.15	0.46
1:QA:337:ASN:CG	59:4a:140:ILE:HG22	2.41	0.46
2:QD:174:SER:HB3	2:QD:177:VAL:O	2.14	0.46
1:QE:6:SER:O	1:QE:63:ALA:HA	2.15	0.46
1:QE:17:GLY:HA2	1:QE:20:PHE:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QE:255:VAL:HG23	2:QF:407:TRP:CG	2.50	0.46
2:QF:344:VAL:HG23	2:QF:436:GLY:HA2	1.98	0.46
1:QG:12:CYS:HB2	69:QG:500:GDP:C8	2.51	0.46
1:QG:133:PHE:CD1	1:QG:164:MET:HE1	2.50	0.46
2:QJ:435:VAL:HG12	57:3h:69:MET:HE3	1.97	0.46
2:RB:173:PRO:HG3	2:RB:183:GLU:OE2	2.16	0.46
2:RH:175:PRO:HG3	2:RH:304:LYS:HG2	1.98	0.46
2:RJ:197:HIS:HE1	57:3h:122:ARG:HH12	1.64	0.46
2:RJ:288:VAL:HB	2:RJ:327:ASP:HB3	1.96	0.46
1:RK:293:MET:SD	1:RK:367:PHE:HB2	2.55	0.46
1:S:312:THR:HG21	2:SA:404:PHE:HZ	1.81	0.46
2:SA:65:CYS:N	2:SA:91:GLN:OE1	2.49	0.46
2:SC:212:LEU:HD21	2:SC:275:VAL:HG11	1.96	0.46
2:SE:291:ILE:HD13	2:SE:373:ARG:HB3	1.97	0.46
2:SI:217:LEU:HB3	2:SI:219:ILE:HG12	1.97	0.46
1:SJ:139:LEU:HD22	1:SJ:188:SER:OG	2.16	0.46
1:SJ:230:ALA:HA	1:SJ:233:MET:HE2	1.97	0.46
1:T:100:ASN:OD1	1:T:103:LYS:N	2.35	0.46
1:TD:102:ALA:H	1:TD:398:TYR:HE1	1.64	0.46
1:TF:11:GLN:HA	1:TF:72:THR:HG21	1.96	0.46
2:TK:209:ILE:HG12	2:TK:302:LEU:HD22	1.97	0.46
2:TK:434:GLU:HG3	57:3i:186:MET:HE3	1.97	0.46
1:TL:139:LEU:HA	1:TL:145:SER:HB3	1.98	0.46
1:TL:185:THR:O	1:TL:189:VAL:HG13	2.16	0.46
1:UD:2:ARG:HB2	1:UD:131:GLN:HB2	1.96	0.46
1:UD:69:GLU:HG2	1:UD:71:GLY:H	1.79	0.46
2:UE:142:GLY:HA3	2:UE:183:GLU:HG3	1.97	0.46
2:UE:392:ASP:HB2	2:UE:422:ARG:NE	2.31	0.46
1:UF:329:GLN:HA	1:UF:332:ASN:HB2	1.98	0.46
2:UG:217:LEU:HD21	2:UG:275:VAL:HG22	1.98	0.46
2:UI:402:ARG:HB3	2:UI:405:VAL:HG21	1.97	0.46
1:V:58:ARG:HH11	1:W:280:GLN:HG2	1.80	0.46
1:V:406:MET:O	1:V:409:THR:OG1	2.30	0.46
2:VA:116:ASP:OD1	2:VA:116:ASP:N	2.49	0.46
2:VA:387:VAL:O	2:VA:391:ILE:HG12	2.15	0.46
2:VC:209:ILE:HG21	2:VC:227:VAL:HG13	1.98	0.46
2:VC:268:VAL:HG23	2:VC:378:ILE:HD11	1.97	0.46
1:VF:311:LEU:HD23	1:VF:342:ILE:HD13	1.96	0.46
1:VJ:134:GLN:HA	1:VJ:165:MET:HB3	1.97	0.46
2:VK:288:VAL:HB	2:VK:327:ASP:HB3	1.97	0.46
1:VL:152:ILE:HG22	1:VL:195:ASN:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VL:257:LEU:HB3	1:VL:266:PHE:CE1	2.51	0.46
2:VM:138:PHE:HZ	2:VM:235:VAL:HG21	1.81	0.46
2:VM:252:LEU:O	2:VM:256:GLN:HG3	2.15	0.46
1:W:203:ASP:OD2	1:W:302:ALA:HB3	2.15	0.46
2:WA:231:ILE:O	2:WA:234:VAL:HG12	2.16	0.46
2:WC:102:ASN:HB3	2:WC:105:ARG:HB3	1.96	0.46
2:WE:6:CYS:O	2:WE:65:CYS:HA	2.16	0.46
2:WG:17:GLY:HA2	2:WG:20:CYS:SG	2.56	0.46
2:WI:205:ASP:OD1	2:WI:205:ASP:N	2.49	0.46
2:WI:345:ASP:N	2:WI:345:ASP:OD1	2.45	0.46
2:WK:21:TRP:CZ2	2:WK:65:CYS:HB3	2.51	0.46
2:WK:155:GLU:HG2	2:WK:197:HIS:CE1	2.49	0.46
2:WK:395:PHE:CD2	2:WK:422:ARG:HD3	2.50	0.46
3:XA:122:PRO:HD2	3:XA:122:PRO:O	2.16	0.46
3:XB:109:GLN:HB3	3:XB:122:PRO:HB3	1.97	0.46
6:0:181:ARG:HD3	6:0:207:PRO:HB2	1.97	0.46
7:0D:51:ARG:O	7:0D:54:HIS:CE1	2.68	0.46
9:0L:283:VAL:HG12	9:0L:316:VAL:HG11	1.96	0.46
9:0L:334:HIS:CG	9:0L:376:ARG:HH21	2.33	0.46
9:0M:173:VAL:HA	9:0M:201:SER:HB2	1.97	0.46
9:0M:350:VAL:HG23	9:0M:359:LEU:HB2	1.97	0.46
9:0N:287:VAL:HG22	9:0N:301:THR:HG22	1.97	0.46
9:0N:331:VAL:HG11	9:0N:372:LEU:HD22	1.96	0.46
9:0N:436:ARG:HH12	9:0N:495:LEU:HD13	1.80	0.46
10:0R:56:TYR:CD1	19:0r:204:MET:HE2	2.50	0.46
10:0R:272:ALA:O	10:0R:275:GLN:HG2	2.16	0.46
20:0t:191:ILE:HD11	20:0t:213:ILE:CG1	2.45	0.46
21:0w:177:LYS:HB3	21:0w:181:LYS:HZ1	1.79	0.46
21:0w:480:LYS:O	21:0w:484:GLU:HG2	2.15	0.46
25:1O:330:ILE:HG21	25:1O:335:ILE:HD11	1.97	0.46
27:1S:227:GLY:HA3	54:3Z:277:ALA:HB1	1.98	0.46
28:1d:151:GLU:HA	28:1d:154:ARG:HG2	1.97	0.46
28:1g:172:ASP:N	28:1g:172:ASP:OD1	2.48	0.46
28:1g:241:VAL:HG13	28:1g:254:LEU:HD11	1.97	0.46
31:1q:220:GLN:HE21	31:1q:252:GLU:HG2	1.79	0.46
33:2H:194:PRO:HG2	33:2H:197:VAL:HB	1.98	0.46
41:2o:448:SER:HA	41:2o:451:LEU:HD12	1.97	0.46
46:3B:353:LEU:HD11	46:3B:413:TYR:HD2	1.80	0.46
49:3P:328:ARG:NH1	49:3P:475:TYR:HA	2.29	0.46
49:3Q:24:LEU:O	49:3Q:28:GLN:HG2	2.15	0.46
57:3i:30:ARG:HB3	57:3i:30:ARG:NH1	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:5P:70:MET:HE2	67:5P:107:LEU:HD23	1.96	0.46
2:AA:26:LEU:HD22	2:AA:363:VAL:HG12	1.97	0.46
2:AA:191:THR:O	2:AA:195:LEU:HD23	2.14	0.46
2:AA:315:CYS:HB3	2:AA:377:MET:HE1	1.98	0.46
1:AB:386:THR:HG22	1:AB:412:GLU:OE2	2.16	0.46
1:AF:130:LEU:O	1:AF:162:ARG:NE	2.49	0.46
2:AK:132:LEU:HG	2:AK:164:LYS:HD2	1.97	0.46
1:B:165:MET:SD	1:B:250:LEU:HD13	2.56	0.46
1:B:323:THR:HG21	2:BA:210:TYR:OH	2.16	0.46
1:BB:253:LEU:HD11	1:BB:316:LEU:HD21	1.98	0.46
2:BC:89:PRO:HG2	2:CB:280:LYS:HD2	1.98	0.46
2:BC:324:VAL:HG11	1:BD:219:THR:HB	1.98	0.46
1:BF:73:MET:HG3	1:BF:92:PHE:CG	2.51	0.46
2:BI:422:ARG:HH12	2:BI:426:ALA:HB2	1.80	0.46
2:BK:279:GLU:HA	2:BK:282:TYR:CE1	2.51	0.46
2:BM:275:VAL:HG23	2:BM:368:LEU:HD11	1.98	0.46
1:BN:316:LEU:HD23	1:BN:352:SER:HB2	1.97	0.46
1:CG:242:PHE:HB2	1:CG:354:CYS:SG	2.56	0.46
2:CH:21:TRP:CZ2	2:CH:65:CYS:HB3	2.50	0.46
2:CH:346:TRP:CD1	1:CI:391:ARG:HG3	2.51	0.46
1:DA:161:ASP:OD1	1:DA:161:ASP:N	2.44	0.46
1:DE:61:PRO:HD3	1:DE:84:LEU:HG	1.97	0.46
2:DH:79:ARG:O	2:DH:84:ARG:HB3	2.15	0.46
2:DJ:101:ASN:ND2	2:DJ:143:GLY:HA2	2.30	0.46
2:DL:356:ASN:OD1	2:DL:357:TYR:N	2.49	0.46
1:EB:415:MET:O	1:EB:419:VAL:HG23	2.15	0.46
1:EF:249:ASP:H	1:EF:252:LYS:CB	2.28	0.46
1:EF:273:LEU:H	1:EF:292:GLN:HE22	1.63	0.46
1:EH:85:PHE:HB2	1:EH:90:PHE:HE1	1.80	0.46
2:EI:195:LEU:HD21	2:EI:264:ARG:HH21	1.80	0.46
1:EJ:252:LYS:HD2	2:EK:100:ALA:HA	1.95	0.46
1:EJ:268:MET:HB3	1:EJ:300:MET:CG	2.46	0.46
2:EK:270:THR:HG23	2:EK:302:LEU:HB2	1.96	0.46
1:EL:139:LEU:HD13	1:EL:168:SER:OG	2.16	0.46
1:F:263:LEU:HD22	1:F:422:TYR:CE2	2.50	0.46
2:FC:53:PHE:HB3	2:FC:61:HIS:HB3	1.97	0.46
2:FE:98:ASP:N	2:FE:98:ASP:OD1	2.47	0.46
1:FF:237:THR:HB	1:FF:240:LEU:HD12	1.98	0.46
2:FG:177:VAL:HB	2:FG:207:GLU:HG2	1.97	0.46
2:FG:274:PRO:HD3	2:FG:374:ALA:HA	1.97	0.46
2:FI:21:TRP:CZ2	2:FI:65:CYS:HB3	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FI:196:GLU:HG3	2:FI:197:HIS:CD2	2.51	0.46
1:FJ:289:LEU:O	1:FJ:293:MET:HG2	2.15	0.46
1:FL:293:MET:HE1	1:FL:317:PHE:CZ	2.50	0.46
2:GC:83:TYR:HB3	2:GC:86:LEU:HB3	1.97	0.46
1:GD:202:ILE:HD12	1:GD:300:MET:HE2	1.96	0.46
2:GE:5:ILE:HD13	2:GE:64:ARG:HB3	1.98	0.46
1:GF:331:LEU:HD11	2:GG:176:GLN:HG3	1.97	0.46
1:GF:343:GLU:O	1:GF:346:PRO:HD3	2.16	0.46
2:GI:326:LYS:HZ3	1:GJ:220:PRO:HD2	1.81	0.46
1:HB:58:ARG:HD3	1:IB:280:GLN:OE1	2.15	0.46
1:HD:317:PHE:CD2	1:HD:365:VAL:HB	2.50	0.46
2:HE:264:ARG:HH22	2:HE:428:LEU:HD22	1.80	0.46
2:HE:271:SER:HB3	2:HE:301:MET:HG3	1.98	0.46
2:HG:273:ALA:HB3	2:HG:295:VAL:HB	1.96	0.46
2:HI:335:ILE:HD13	2:HI:338:LYS:NZ	2.31	0.46
1:HL:251:ARG:NH1	2:HM:105:ARG:NH1	2.64	0.46
1:HL:280:GLN:NE2	17:0n:122:ASP:OD2	2.35	0.46
1:ID:63:ALA:O	1:ID:89:ASN:ND2	2.37	0.46
1:IF:133:PHE:HB2	1:IF:164:MET:SD	2.56	0.46
2:IK:319:TYR:HB3	2:IK:323:VAL:HG21	1.97	0.46
2:J:70:LEU:HD22	2:J:99:ALA:HB2	1.98	0.46
2:J:288:VAL:HG11	2:J:323:VAL:HG12	1.98	0.46
1:JA:20:PHE:HA	1:JA:230:ALA:HB1	1.98	0.46
2:JB:179:THR:OG1	71:JB:501:GTP:O3'	2.30	0.46
1:JC:189:VAL:O	1:JC:193:VAL:HG23	2.16	0.46
2:JD:288:VAL:HB	19:0r:28:GLU:OE2	2.16	0.46
2:JF:250:VAL:HA	2:JF:254:GLU:HG2	1.98	0.46
2:JF:422:ARG:HH12	2:JF:426:ALA:HB2	1.81	0.46
2:JH:318:MET:N	2:JH:318:MET:SD	2.88	0.46
1:JI:150:LEU:HG	1:JI:154:LYS:NZ	2.30	0.46
2:JL:116:ASP:OD1	2:JL:117:LEU:N	2.49	0.46
2:JN:41:CYS:SG	2:JN:42:ILE:N	2.87	0.46
2:JN:75:VAL:HG11	2:JN:94:SER:HB2	1.97	0.46
2:K:172:TYR:HE2	2:K:388:PHE:HE1	1.63	0.46
1:KA:174:ARG:HH12	1:KA:302:ALA:HB1	1.80	0.46
2:KB:185:TYR:HE2	2:KB:404:PHE:HB2	1.79	0.46
2:KD:360:PRO:HG2	2:KD:371:VAL:HG23	1.97	0.46
1:KE:162:ARG:HG3	1:KE:162:ARG:HH11	1.80	0.46
1:KE:170:ILE:HG21	1:KE:377:MET:SD	2.55	0.46
1:KG:164:MET:HB2	1:KG:197:ASP:H	1.81	0.46
1:KG:375:GLN:OE1	1:KG:379:ARG:NH2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KH:326:LYS:CE	1:KI:220:PRO:HD2	2.45	0.46
1:KK:143:THR:O	1:KK:147:MET:HB2	2.16	0.46
2:KL:167:LEU:HD11	2:KL:255:PHE:HZ	1.80	0.46
2:KL:258:ASN:HD21	2:KL:352:LYS:HD3	1.80	0.46
2:KL:328:VAL:O	2:KL:332:ILE:HG12	2.16	0.46
2:L:269:LEU:HD13	2:L:301:MET:SD	2.56	0.46
2:LB:274:PRO:HD3	2:LB:374:ALA:HA	1.97	0.46
2:LD:269:LEU:HD13	2:LD:301:MET:HE1	1.96	0.46
1:LE:228:LEU:HD22	1:LE:273:LEU:HD21	1.97	0.46
1:LG:19:LYS:HZ1	25:1O:30:ASP:CG	2.19	0.46
1:LI:272:PRO:HG2	23:1E:162:GLN:HE22	1.80	0.46
1:LK:236:VAL:HG23	1:LK:237:THR:HG23	1.97	0.46
1:LK:334:GLN:OE1	1:LK:347:ASN:HA	2.15	0.46
1:LM:11:GLN:HA	1:LM:72:THR:HG21	1.97	0.46
2:LN:241:SER:O	2:LN:249:ASN:ND2	2.48	0.46
2:LN:270:THR:HG23	2:LN:302:LEU:HB2	1.96	0.46
1:LO:208:TYR:CE1	1:LO:225:LEU:HD11	2.51	0.46
1:LO:362:LYS:HZ1	23:1F:330:TRP:HB3	1.79	0.46
2:MC:250:VAL:HG21	2:MC:318:MET:HE1	1.97	0.46
2:ME:70:LEU:HD12	2:ME:99:ALA:HB2	1.98	0.46
2:MI:259:LEU:HD21	2:MI:378:ILE:HG22	1.96	0.46
1:MJ:263:LEU:HD11	1:MJ:421:GLU:HG2	1.96	0.46
2:MK:384:ILE:O	2:MK:387:VAL:HG12	2.15	0.46
1:ML:270:PHE:HD2	1:ML:273:LEU:HD11	1.81	0.46
1:MN:152:ILE:HG22	1:MN:195:ASN:HB3	1.97	0.46
1:NB:42:LEU:O	1:NB:45:GLU:HG2	2.15	0.46
2:NC:59:GLY:HA3	41:2o:412:ARG:NH2	2.31	0.46
1:ND:13:GLY:HA2	1:ND:16:ILE:HG22	1.97	0.46
1:ND:249:ASP:H	1:ND:252:LYS:CB	2.29	0.46
2:NE:53:PHE:HB3	2:NE:61:HIS:HB3	1.98	0.46
2:NE:258:ASN:HD22	1:NF:179:VAL:HG22	1.80	0.46
2:NG:36:MET:HE1	2:NG:61:HIS:NE2	2.31	0.46
1:NJ:237:THR:HG22	1:NJ:250:LEU:HD21	1.97	0.46
2:OA:70:LEU:HA	2:OA:95:GLY:HA3	1.97	0.46
1:OB:86:ARG:HH12	1:PB:282:ARG:HA	1.80	0.46
2:OC:341:ILE:HG13	2:OC:341:ILE:O	2.16	0.46
2:OC:431:ASP:OD2	2:OC:432:TYR:N	2.49	0.46
1:OD:55:SER:N	1:PD:283:GLY:HA2	2.30	0.46
1:OD:167:PHE:CD1	1:OD:233:MET:HE2	2.50	0.46
1:OJ:181:GLU:HB3	1:OJ:182:PRO:HD3	1.96	0.46
1:P:138:SER:HA	1:P:169:VAL:HB	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PA:99:ALA:O	2:PA:105:ARG:HD3	2.16	0.46
2:PA:259:LEU:HD21	2:PA:378:ILE:HG22	1.97	0.46
2:PC:213:THR:HA	2:PC:217:LEU:HD23	1.98	0.46
2:PG:296:PHE:HE1	2:PG:317:LEU:HD21	1.81	0.46
2:PI:75:VAL:HG21	2:PI:94:SER:HB2	1.98	0.46
1:PJ:304:ASP:OD2	1:PJ:307:HIS:CE1	2.68	0.46
1:PL:267:MET:SD	1:PL:371:ASN:ND2	2.89	0.46
2:PM:324:VAL:O	2:PM:328:VAL:HG23	2.16	0.46
1:QA:7:CYS:HB2	1:QA:135:LEU:HG	1.98	0.46
1:QA:322:SER:OG	1:QA:325:GLU:OE1	2.33	0.46
1:QC:12:CYS:O	1:QC:16:ILE:HG12	2.15	0.46
2:QD:388:PHE:CD2	2:QD:432:TYR:HE2	2.34	0.46
2:QF:252:LEU:HA	2:QF:255:PHE:CE1	2.51	0.46
2:QL:217:LEU:HD23	2:QL:367:ASP:HB3	1.98	0.46
1:RA:267:MET:HB3	1:RA:374:ILE:HD11	1.98	0.46
2:RB:16:VAL:HA	2:RB:228:ASN:HB3	1.97	0.46
2:RB:238:LEU:HD21	2:RB:255:PHE:CZ	2.50	0.46
2:RB:251:ASP:H	2:RB:254:GLU:CG	2.29	0.46
1:RC:355:ASP:CG	28:1X:219:THR:HA	2.40	0.46
1:RK:320:ARG:HH11	28:1Y:145:THR:HA	1.81	0.46
1:S:208:TYR:CE2	1:S:225:LEU:HD11	2.51	0.46
1:SB:41:ASP:O	1:SB:45:GLU:HG3	2.16	0.46
1:SB:107:THR:O	61:3w:166:ARG:NH2	2.48	0.46
2:SC:389:ALA:HA	2:SC:429:GLU:OE2	2.16	0.46
2:SE:396:ASP:OD2	2:SE:422:ARG:NH2	2.37	0.46
1:SH:3:GLU:O	1:SH:131:GLN:N	2.49	0.46
2:SI:234:VAL:HG13	2:SI:376:CYS:SG	2.56	0.46
1:T:347:ASN:ND2	2:TA:178:SER:HB3	2.30	0.46
1:TB:46:ARG:NH1	2:TC:73:THR:HG22	2.27	0.46
1:TB:232:VAL:HG13	1:TB:366:THR:HB	1.97	0.46
1:TB:299:MET:SD	1:TB:305:PRO:HG3	2.56	0.46
2:TG:117:LEU:HD11	2:TG:121:ARG:HH12	1.81	0.46
2:TG:195:LEU:HD21	2:TG:428:LEU:HD12	1.98	0.46
2:TK:27:GLU:OE1	2:TK:243:ARG:NH2	2.49	0.46
1:U:154:LYS:O	1:U:158:GLU:HG3	2.16	0.46
2:UA:229:ARG:HH21	53:3W:110:ALA:HB1	1.79	0.46
2:UA:244:PHE:HB2	2:UA:356:ASN:ND2	2.29	0.46
2:UC:186:ASN:OD1	2:UC:408:TYR:OH	2.29	0.46
2:UC:291:ILE:O	2:UC:295:VAL:HG23	2.16	0.46
1:UD:282:ARG:HH22	1:UD:284:LEU:HD23	1.79	0.46
2:UE:291:ILE:HG22	2:UE:375:VAL:HG12	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UF:22:GLU:HA	1:UF:81:TYR:CE2	2.50	0.46
2:UG:119:LEU:HD21	2:UG:156:ARG:HB3	1.97	0.46
1:UH:139:LEU:HG	1:UH:168:SER:HB2	1.97	0.46
2:UI:201:ALA:HB3	2:UI:267:PHE:HD1	1.81	0.46
1:UJ:251:ARG:HG2	2:UK:105:ARG:HH11	1.81	0.46
1:UJ:310:TYR:HB2	1:UJ:341:PHE:HD1	1.80	0.46
1:V:295:ASP:OD2	1:V:297:LYS:HG2	2.16	0.46
2:VA:326:LYS:HD2	1:VB:212:PHE:CZ	2.50	0.46
1:VB:249:ASP:OD1	1:VB:252:LYS:HB2	2.16	0.46
1:VD:324:LYS:HD3	2:VE:222:PRO:HG2	1.98	0.46
2:VI:69:ASP:OD2	2:VI:70:LEU:N	2.48	0.46
2:VI:88:ASN:ND2	2:WI:284:GLU:OE2	2.40	0.46
1:VL:246:LEU:HD12	1:VL:246:LEU:HA	1.78	0.46
1:VL:249:ASP:H	1:VL:252:LYS:HB3	1.81	0.46
1:VL:385:PHE:HE2	1:VL:412:GLU:HB2	1.79	0.46
2:WA:64:ARG:HA	2:WA:125:LEU:HD12	1.97	0.46
2:WA:332:ILE:HD12	2:WA:351:PHE:CD1	2.51	0.46
2:WC:298:PRO:HB3	2:WC:307:PRO:HD2	1.96	0.46
1:WH:42:LEU:HD22	1:WH:356:ILE:HD11	1.98	0.46
2:WK:27:GLU:HA	2:WK:361:THR:HG21	1.97	0.46
3:XB:84:LYS:HG2	5:XN:313:CYS:HB2	1.98	0.46
3:XE:84:LYS:HD2	4:XQ:306:CYS:O	2.16	0.46
3:XF:4:ASN:ND2	4:XR:31:PHE:O	2.48	0.46
8:0G:211:ARG:HD2	8:0G:215:ARG:NH1	2.31	0.46
8:0I:294:GLU:O	8:0I:298:ILE:HG12	2.16	0.46
8:0J:264:GLN:O	8:0J:267:ARG:HD3	2.16	0.46
9:0L:482:VAL:HG22	9:0L:492:VAL:HG13	1.97	0.46
9:0M:198:MET:HE1	9:0M:200:ARG:HG2	1.98	0.46
9:0M:606:LYS:HE2	9:0M:618:ILE:HG21	1.97	0.46
16:0l:436:ARG:HB2	16:0l:459:ILE:HD13	1.97	0.46
16:0k:806:HIS:CE1	16:0k:810:MET:SD	3.09	0.46
20:0u:191:ILE:HD11	20:0u:213:ILE:HG12	1.96	0.46
24:1H:96:ARG:HB2	24:1H:184:ASP:HB2	1.97	0.46
24:1H:289:GLU:HG2	24:1H:297:ARG:HH12	1.80	0.46
24:1I:562:GLU:HB2	24:1I:565:VAL:HG22	1.97	0.46
24:1J:144:PRO:HG2	24:1J:146:ASN:OD1	2.16	0.46
24:1J:733:MET:O	24:1J:737:ASN:ND2	2.49	0.46
27:1T:784:PRO:HG3	27:1T:812:PHE:CD2	2.50	0.46
28:1d:172:ASP:N	28:1d:172:ASP:OD1	2.45	0.46
31:1q:227:GLU:HG3	31:1q:248:LEU:HD13	1.97	0.46
31:1r:155:ARG:HD3	22:1x:182:LEU:HD21	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:2e:305:TYR:O	41:2e:309:LEU:HD23	2.16	0.46
41:2e:362:LEU:O	41:2e:366:GLU:OE1	2.33	0.46
41:2i:417:ASP:O	41:2i:421:ARG:HG3	2.16	0.46
46:3B:356:LEU:HD11	46:3B:434:TRP:CD1	2.51	0.46
48:3G:41:MET:SD	48:3G:49:LYS:NZ	2.88	0.46
57:3f:139:ILE:HG23	57:3f:144:LEU:HG	1.96	0.46
58:3m:148:GLU:O	58:3m:152:ARG:HG3	2.16	0.46
59:3p:250:ASP:HB3	59:3p:253:LYS:HD3	1.97	0.46
64:5B:156:LEU:HA	64:5B:159:ARG:HG2	1.97	0.46
67:5P:60:ILE:HG21	67:5P:85:ALA:O	2.15	0.46
2:AA:246:GLY:HA3	2:AA:356:ASN:HD22	1.80	0.46
1:AB:189:VAL:O	1:AB:193:VAL:HG13	2.15	0.46
2:AC:173:PRO:HG3	2:AC:183:GLU:HG2	1.97	0.46
1:AF:113:ILE:HG13	1:AF:117:LEU:HD23	1.98	0.46
1:AF:189:VAL:O	1:AF:193:VAL:HG23	2.15	0.46
2:AG:223:SER:OG	2:AG:224:TYR:N	2.48	0.46
2:AG:326:LYS:HG3	1:AH:220:PRO:HG2	1.97	0.46
1:AH:327:ASP:HB3	2:AI:177:VAL:HG13	1.97	0.46
2:AM:167:LEU:HD21	2:AM:255:PHE:CZ	2.51	0.46
1:B:113:ILE:HG13	1:B:117:LEU:HD23	1.98	0.46
1:B:272:PRO:HD3	1:B:364:SER:HA	1.97	0.46
1:BD:163:ILE:HG21	1:BD:250:LEU:HB3	1.97	0.46
2:BG:122:ILE:HD13	2:BG:125:LEU:HD12	1.98	0.46
2:BG:324:VAL:HG12	2:BG:326:LYS:HG2	1.98	0.46
1:BH:2:ARG:N	1:BH:129:CYS:HG	2.14	0.46
1:BH:97:ALA:HA	1:BH:103:LYS:HD2	1.98	0.46
2:BI:22:GLU:HB3	2:BI:83:TYR:HE2	1.81	0.46
2:BK:76:ASP:O	2:BK:80:THR:HG23	2.16	0.46
2:BK:81:GLY:O	2:BK:84:ARG:NH1	2.47	0.46
1:BL:68:LEU:HD12	1:BL:97:ALA:HB2	1.97	0.46
2:C:8:HIS:HD2	2:C:67:PHE:CZ	2.34	0.46
2:C:63:PRO:HG2	2:C:87:PHE:CE1	2.51	0.46
1:CA:144:GLY:N	69:CA:500:GDP:O2B	2.48	0.46
2:CB:6:CYS:O	2:CB:65:CYS:HA	2.16	0.46
2:CB:139:HIS:CE1	2:CB:170:THR:HG22	2.51	0.46
2:CF:227:VAL:O	2:CF:231:ILE:HG12	2.16	0.46
1:CG:211:CYS:HB3	1:CG:220:PRO:HG3	1.98	0.46
1:CI:385:PHE:HE2	1:CI:412:GLU:HB2	1.79	0.46
1:CK:145:SER:HB2	1:CK:188:SER:OG	2.15	0.46
2:D:311:LYS:HE3	2:D:311:LYS:HB3	1.75	0.46
2:D:316:CYS:SG	2:D:378:ILE:HB	2.56	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:254:GLU:CD	1:DC:99:ASN:HB2	2.40	0.46
1:DC:178:THR:HG22	1:DC:179:VAL:H	1.80	0.46
2:DD:69:ASP:OD1	2:DD:71:GLU:HG3	2.16	0.46
2:DD:105:ARG:HG2	2:DD:110:ILE:HG12	1.98	0.46
1:DE:69:GLU:HG2	1:DE:71:GLY:H	1.80	0.46
1:DG:20:PHE:O	1:DG:24:ILE:HG12	2.16	0.46
2:DL:255:PHE:HD1	2:DL:259:LEU:HD23	1.79	0.46
1:E:102:ALA:HB1	1:E:401:GLU:OE1	2.15	0.46
1:ED:66:MET:SD	1:ED:147:MET:HE2	2.56	0.46
1:ED:156:ARG:HH21	1:ED:164:MET:HG3	1.80	0.46
2:EE:66:LEU:HD12	2:EE:91:GLN:O	2.16	0.46
2:EI:147:SER:OG	2:EI:190:SER:HB3	2.15	0.46
2:EK:313:MET:HG2	2:EK:344:VAL:HG21	1.96	0.46
1:EL:6:SER:HA	1:EL:134:GLN:HG3	1.97	0.46
1:FB:316:LEU:HD23	1:FB:352:SER:OG	2.15	0.46
2:FC:243:ARG:HE	2:FC:244:PHE:HE1	1.61	0.46
2:FC:265:ILE:HG23	2:FC:432:TYR:CE2	2.51	0.46
1:FD:72:THR:O	1:FD:76:VAL:HG23	2.15	0.46
1:FD:346:PRO:HG3	2:FE:394:LYS:HB3	1.98	0.46
1:FD:392:LYS:HD2	1:FD:395:LEU:HD12	1.97	0.46
1:FF:172:SER:HB2	1:FF:203:ASP:OD1	2.16	0.46
1:FF:345:ILE:O	1:FF:348:ASN:ND2	2.49	0.46
2:FG:318:MET:HE3	2:FG:318:MET:HA	1.98	0.46
1:FH:73:MET:HE2	1:FH:73:MET:HA	1.98	0.46
1:FJ:163:ILE:HG21	1:FJ:250:LEU:HB3	1.98	0.46
1:FJ:232:VAL:HG11	1:FJ:268:MET:HE2	1.98	0.46
1:FJ:332:ASN:O	1:FJ:336:LYS:HG2	2.16	0.46
1:FL:54:SER:OG	1:FL:55:SER:N	2.49	0.46
1:G:49:VAL:HG11	1:G:240:LEU:HB3	1.97	0.46
1:GB:274:THR:OG1	1:GB:279:GLN:HG3	2.15	0.46
2:GC:153:LEU:O	2:GC:157:LEU:HB2	2.15	0.46
2:GE:251:ASP:H	2:GE:254:GLU:HB2	1.79	0.46
2:GE:317:LEU:O	2:GE:318:MET:HE2	2.15	0.46
1:GH:27:GLU:OE2	1:GH:241:ARG:NH2	2.49	0.46
1:GL:86:ARG:NH1	1:GL:123:GLU:OE2	2.47	0.46
2:HA:165:SER:O	2:HA:166:LYS:HD3	2.15	0.46
2:HA:270:THR:HG23	2:HA:302:LEU:HD12	1.98	0.46
2:HA:308:ARG:HB3	64:5B:113:GLN:CD	2.40	0.46
2:HC:288:VAL:O	2:HC:291:ILE:HG12	2.16	0.46
1:HJ:20:PHE:HZ	1:HJ:50:TYR:CE2	2.33	0.46
1:HJ:190:HIS:CE1	1:HJ:191:GLN:HG2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HJ:210:ILE:HG12	1:HJ:297:LYS:O	2.16	0.46
2:HK:90:GLU:HB2	2:HK:121:ARG:NH1	2.30	0.46
1:HL:122:LYS:O	1:HL:125:GLU:HG3	2.15	0.46
2:HM:138:PHE:HE2	2:HM:235:VAL:HG21	1.80	0.46
1:IB:91:ILE:HG21	1:IB:116:VAL:HG22	1.98	0.46
1:IB:237:THR:HG22	1:IB:250:LEU:HD21	1.97	0.46
1:IB:286:VAL:HG11	1:IB:326:VAL:HA	1.97	0.46
2:IC:334:THR:O	2:IC:338:LYS:HG3	2.16	0.46
1:IF:209:ASP:OD1	1:IF:213:ARG:NH1	2.48	0.46
1:IH:311:LEU:HD23	1:IH:342:ILE:HG21	1.97	0.46
2:II:195:LEU:HD21	2:II:264:ARG:HE	1.81	0.46
2:II:209:ILE:HG21	2:II:227:VAL:HG13	1.98	0.46
1:IL:279:GLN:NE2	7:0D:277:TRP:HA	2.31	0.46
2:IM:209:ILE:CD1	2:IM:302:LEU:HD12	2.45	0.46
2:J:428:LEU:HA	2:J:431:ASP:OD2	2.16	0.46
2:JD:352:LYS:HD2	1:JE:177:ASP:O	2.15	0.46
2:JH:17:GLY:HA2	2:JH:20:CYS:SG	2.56	0.46
2:JH:318:MET:O	2:JH:375:VAL:HA	2.16	0.46
2:JJ:251:ASP:H	2:JJ:254:GLU:HG3	1.81	0.46
2:JJ:271:SER:HA	2:JJ:302:LEU:HB2	1.96	0.46
1:JK:386:THR:O	1:JK:390:ARG:HG2	2.15	0.46
2:K:358:GLN:HE22	49:3P:548:GLN:HB3	1.80	0.46
1:KA:100:ASN:HB3	1:KA:103:LYS:HG3	1.98	0.46
2:KH:406:HIS:HA	2:KH:409:VAL:HG22	1.97	0.46
1:KI:34:GLY:HA3	1:KI:58:ARG:HG3	1.98	0.46
1:KM:165:MET:HE3	1:KM:250:LEU:HD13	1.98	0.46
2:L:252:LEU:HA	2:L:255:PHE:CE1	2.50	0.46
2:L:285:GLN:NE2	2:L:287:SER:HB3	2.30	0.46
1:LA:347:ASN:O	2:LB:181:VAL:HG12	2.15	0.46
1:LA:413:SER:HB2	6:0:138:ARG:CZ	2.46	0.46
2:LB:433:GLU:HB3	22:1w:63:PRO:HG2	1.96	0.46
1:LC:360:GLY:HA2	23:1E:337:GLN:HE22	1.80	0.46
2:LD:328:VAL:HG21	2:LD:355:ILE:HD11	1.97	0.46
2:LF:237:SER:HA	2:LF:320:ARG:HD2	1.98	0.46
1:LG:185:THR:HG21	1:LG:381:VAL:HG21	1.97	0.46
1:LG:311:LEU:HD23	1:LG:342:ILE:HD12	1.96	0.46
1:LK:77:ARG:HB3	24:1J:37:ILE:HD11	1.97	0.46
1:MD:263:LEU:HD21	1:MD:421:GLU:HB3	1.98	0.46
2:ME:145:THR:HG22	71:ME:501:GTP:O3G	2.15	0.46
1:MF:50:TYR:CD1	1:MF:241:ARG:HD3	2.50	0.46
2:MG:264:ARG:HD3	32:2C:53:MET:SD	2.55	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MH:167:PHE:CZ	1:MH:233:MET:HG2	2.50	0.46
2:MI:142:GLY:HA2	2:MI:183:GLU:HG3	1.98	0.46
1:MJ:331:LEU:CD2	2:MK:176:GLN:HB3	2.44	0.46
1:MJ:386:THR:HG21	33:2H:136:ARG:HD2	1.98	0.46
2:MK:18:ASN:HD21	44:2w:2:SER:N	2.13	0.46
2:MK:239:THR:HG23	2:MK:243:ARG:HH21	1.80	0.46
2:MM:108:TYR:HA	2:MM:112:LYS:HE2	1.97	0.46
1:MN:174:ARG:HB2	1:MN:205:GLU:OE1	2.15	0.46
1:MN:240:LEU:HD11	1:MN:249:ASP:HA	1.97	0.46
2:NA:138:PHE:HE2	2:NA:235:VAL:HG21	1.81	0.46
1:NH:135:LEU:HD23	1:NH:152:ILE:HD11	1.97	0.46
2:NI:52:PHE:CE2	2:NI:243:ARG:HD2	2.50	0.46
2:NI:195:LEU:HD21	2:NI:264:ARG:HE	1.79	0.46
1:O:304:ASP:HB3	1:O:306:ARG:HD2	1.98	0.46
1:O:345:ILE:CD1	2:OA:398:MET:HG3	2.43	0.46
1:O:404:ASP:OD2	1:O:407:GLU:N	2.42	0.46
2:OA:275:VAL:HG23	2:OA:368:LEU:HD11	1.97	0.46
2:OC:271:SER:HA	2:OC:302:LEU:HD23	1.98	0.46
1:OH:9:ALA:HB3	1:OH:137:HIS:HB3	1.98	0.46
1:OJ:233:MET:O	1:OJ:236:VAL:HG12	2.16	0.46
2:OK:170:THR:HB	2:OK:172:TYR:CE2	2.51	0.46
2:OK:254:GLU:OE2	1:OL:98:GLY:HA2	2.16	0.46
1:OL:6:SER:O	1:OL:63:ALA:HA	2.15	0.46
1:OL:287:ALA:HA	1:OL:329:GLN:HE22	1.81	0.46
1:OL:344:TRP:HZ3	2:OM:403:ALA:HB2	1.81	0.46
1:OL:416:ASN:HA	1:OL:419:VAL:HG22	1.97	0.46
2:OM:185:TYR:CZ	2:OM:398:MET:HG2	2.50	0.46
2:OM:207:GLU:HA	2:OM:210:TYR:HB2	1.98	0.46
2:OM:298:PRO:HA	2:OM:301:MET:HG2	1.98	0.46
2:PA:89:PRO:HB2	2:Q:280:LYS:NZ	2.29	0.46
1:PB:19:LYS:HE2	1:PB:19:LYS:HB2	1.65	0.46
2:PC:297:GLU:CD	2:PC:298:PRO:HD2	2.41	0.46
1:PJ:317:PHE:HD2	1:PJ:321:MET:HE2	1.81	0.46
2:PK:175:PRO:HB3	2:PK:390:ARG:HH12	1.81	0.46
1:PL:137:HIS:HE1	1:PL:168:SER:HB3	1.80	0.46
2:PM:173:PRO:HB3	2:PM:183:GLU:HG3	1.98	0.46
1:QA:222:PHE:HD1	1:QA:225:LEU:HD12	1.81	0.46
2:QB:223:SER:OG	2:QB:224:TYR:N	2.48	0.46
1:QC:346:PRO:HD2	2:QD:398:MET:HE1	1.97	0.46
2:QD:1:MET:N	2:QD:3:GLU:OE2	2.48	0.46
2:QD:185:TYR:HE1	2:QD:398:MET:HB3	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QD:207:GLU:HB3	2:QD:304:LYS:HZ2	1.80	0.46
2:QF:180:ALA:HB3	2:QF:183:GLU:HB2	1.96	0.46
1:QI:143:THR:N	69:QI:500:GDP:O2B	2.49	0.46
1:QI:190:HIS:CE1	1:QI:191:GLN:HG2	2.51	0.46
1:QK:50:TYR:CD2	1:QK:241:ARG:HD3	2.51	0.46
1:QK:183:TYR:HB3	1:QK:398:TYR:HE2	1.81	0.46
2:R:271:SER:OG	2:R:377:MET:HB2	2.16	0.46
2:RB:258:ASN:HD21	1:RC:99:ASN:ND2	2.14	0.46
1:RC:22:GLU:HG3	1:RC:81:TYR:CD1	2.51	0.46
1:RE:48:ASN:O	1:RE:62:ARG:NH2	2.40	0.46
1:RE:91:ILE:HG13	1:RE:112:LEU:HD21	1.97	0.46
1:RE:255:VAL:HG11	2:RF:100:ALA:O	2.16	0.46
2:RF:205:ASP:OD1	2:RF:303:THR:HA	2.14	0.46
2:RF:367:ASP:N	2:RF:367:ASP:OD1	2.48	0.46
1:RG:246:LEU:HA	2:RH:11:GLN:HE22	1.80	0.46
1:RK:161:ASP:OD1	1:RK:161:ASP:N	2.44	0.46
2:SA:174:SER:HB2	2:SA:177:VAL:O	2.15	0.46
2:SA:211:ASP:O	2:SA:215:ARG:HD3	2.16	0.46
1:SD:159:TYR:HB3	1:SD:162:ARG:HG2	1.97	0.46
1:SD:392:LYS:HG3	1:SD:395:LEU:HD23	1.98	0.46
1:SF:151:LEU:O	1:SF:155:LEU:HD13	2.16	0.46
2:SG:90:GLU:O	2:SG:91:GLN:HG2	2.15	0.46
1:SH:340:TYR:CZ	59:3p:192:PHE:HB2	2.51	0.46
1:SJ:161:ASP:OD1	1:SJ:161:ASP:N	2.49	0.46
2:SK:119:LEU:CD1	2:SK:156:ARG:HB3	2.46	0.46
2:SK:427:ALA:HA	2:SK:430:LYS:HG2	1.96	0.46
1:T:200:MET:HB3	1:T:268:MET:CE	2.45	0.46
1:TB:106:TYR:CE2	1:TB:403:MET:HG3	2.51	0.46
1:TB:345:ILE:HG23	1:TB:345:ILE:O	2.15	0.46
2:TC:192:HIS:ND1	2:TC:424:ASP:OD2	2.37	0.46
2:TC:439:SER:HB3	1:TD:391:ARG:HH12	1.80	0.46
1:TD:102:ALA:HB2	1:TD:403:MET:HE2	1.98	0.46
2:TE:21:TRP:CZ2	2:TE:65:CYS:HB3	2.51	0.46
1:U:66:MET:HE3	1:U:116:VAL:HG11	1.98	0.46
1:U:152:ILE:HD13	1:U:164:MET:HE2	1.98	0.46
1:U:279:GLN:OE1	8:0I:284:LYS:NZ	2.49	0.46
2:UG:195:LEU:HG	2:UG:428:LEU:HD21	1.98	0.46
2:UI:167:LEU:HA	2:UI:200:VAL:O	2.16	0.46
2:UK:288:VAL:HA	2:UK:291:ILE:HG12	1.97	0.46
2:UK:328:VAL:O	2:UK:332:ILE:HG12	2.14	0.46
1:UL:32:PRO:HG3	1:UL:81:TYR:CE1	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UL:253:LEU:HD21	1:UL:316:LEU:HD21	1.96	0.46
1:V:290:THR:HA	1:V:293:MET:HE2	1.97	0.46
1:VF:290:THR:HA	1:VF:293:MET:HE3	1.97	0.46
2:VG:326:LYS:HE2	1:VH:218:THR:O	2.16	0.46
1:VJ:222:PHE:HD1	1:VJ:225:LEU:HD12	1.80	0.46
1:VJ:332:ASN:CG	62:4B:356:PRO:HG2	2.41	0.46
1:VL:7:CYS:HB2	1:VL:135:LEU:HD13	1.96	0.46
1:VL:229:VAL:O	1:VL:233:MET:HG3	2.16	0.46
2:WA:234:VAL:O	2:WA:237:SER:OG	2.32	0.46
1:WB:97:ALA:O	1:WB:103:LYS:HD2	2.16	0.46
1:WF:3:GLU:O	1:WF:131:GLN:N	2.45	0.46
2:WI:122:ILE:HG21	2:WI:157:LEU:HD21	1.97	0.46
2:WI:203:MET:N	2:WI:203:MET:HE2	2.30	0.46
2:WK:88:ASN:HD22	2:WK:91:GLN:NE2	2.14	0.46
2:WK:419:SER:O	2:WK:423:GLU:HG3	2.15	0.46
1:WL:327:ASP:HB3	2:WM:177:VAL:HG13	1.97	0.46
3:XB:115:LYS:HB2	3:XB:118:ILE:O	2.16	0.46
4:XM:168:GLU:OE1	4:XM:168:GLU:HA	2.16	0.46
5:XN:178:LEU:HD11	5:XN:220:HIS:CD2	2.50	0.46
4:XO:8:PRO:HB3	9:0M:236:MET:HB3	1.97	0.46
5:XP:12:ARG:O	5:XP:16:ARG:HG2	2.16	0.46
7:0C:276:SER:OG	38:2U:84:LEU:HB3	2.15	0.46
8:0G:302:LYS:O	8:0G:305:GLU:HG3	2.15	0.46
8:0I:154:ARG:HA	8:0I:157:GLU:HG2	1.96	0.46
9:0N:563:ARG:NH2	9:0N:626:ILE:HB	2.31	0.46
16:0l:315:ARG:HB3	16:0l:318:ASN:OD1	2.16	0.46
17:0m:97:VAL:O	17:0m:100:ARG:HG3	2.16	0.46
17:0n:181:GLU:OE2	43:2t:333:THR:OG1	2.24	0.46
18:0p:290:GLU:HA	18:0p:293:VAL:HG12	1.97	0.46
20:0u:213:ILE:HG13	20:0u:214:ARG:N	2.31	0.46
23:1B:266:MET:HB2	45:2z:114:PHE:CZ	2.51	0.46
24:1I:432:ASP:OD2	24:1I:504:LEU:HB2	2.16	0.46
26:1Q:233:LEU:H	26:1Q:233:LEU:HD23	1.81	0.46
28:1g:170:LYS:HA	28:1g:170:LYS:HD2	1.81	0.46
29:1j:20:ILE:HD11	29:1j:29:ASN:HB3	1.98	0.46
31:1r:217:PRO:N	31:1r:259:ARG:HH22	2.13	0.46
22:1x:258:LEU:HA	22:1x:261:ARG:CG	2.43	0.46
33:2F:246:ASP:OD1	33:2F:248:ALA:N	2.37	0.46
38:2U:223:THR:O	38:2U:229:ASN:ND2	2.36	0.46
40:2Z:119:ARG:O	40:2Z:122:VAL:HG12	2.16	0.46
41:2e:213:PRO:O	41:2e:218:ARG:NH2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:2w:211:LYS:HD2	44:2w:381:TYR:HD1	1.81	0.46
44:2w:231:ASP:O	44:2w:234:ARG:HG2	2.16	0.46
46:3B:274:VAL:HG12	46:3B:342:LEU:HD21	1.97	0.46
48:3F:71:ILE:HG13	48:3F:71:ILE:O	2.15	0.46
49:3Q:126:LEU:HB3	49:3Q:151:VAL:HG21	1.96	0.46
57:3f:37:GLN:HA	57:3f:40:GLU:HG3	1.97	0.46
28:4W:4:LEU:HD23	28:4W:24:GLU:HG2	1.96	0.46
67:5P:78:LEU:HD12	67:5P:105:VAL:HG21	1.97	0.46
68:5T:78:ASN:OD1	68:5T:82:ARG:NH2	2.42	0.46
1:A:344:TRP:HB3	1:A:430:VAL:HG12	1.97	0.46
2:AC:396:ASP:OD1	2:AC:422:ARG:NE	2.48	0.46
1:AD:267:MET:HG2	1:AD:369:GLY:O	2.16	0.46
2:AG:7:ILE:HD12	2:AG:137:VAL:HG22	1.97	0.46
2:AG:237:SER:HA	2:AG:320:ARG:HD2	1.98	0.46
2:AK:70:LEU:HD12	2:AK:99:ALA:HB2	1.98	0.46
2:AK:97:GLU:CD	2:AK:105:ARG:HH12	2.24	0.46
1:AN:252:LYS:HA	1:AN:252:LYS:HD3	1.66	0.46
1:B:305:PRO:HA	1:B:373:CYS:SG	2.56	0.46
2:BA:137:VAL:HG21	2:BA:154:LEU:HD21	1.97	0.46
1:BB:344:TRP:HB3	1:BB:430:VAL:HG12	1.96	0.46
1:BF:161:ASP:OD2	1:BF:161:ASP:N	2.49	0.46
2:BK:259:LEU:HD21	2:BK:268:VAL:HG11	1.96	0.46
1:BN:106:TYR:HE2	1:BN:403:MET:HG2	1.81	0.46
2:CB:70:LEU:HD12	2:CB:99:ALA:HB2	1.97	0.46
2:CB:195:LEU:HD21	2:CB:428:LEU:HD22	1.98	0.46
2:CB:340:THR:HG23	2:CB:341:ILE:HG23	1.97	0.46
1:CC:237:THR:HG22	1:CC:240:LEU:HD12	1.98	0.46
1:CC:246:LEU:HD12	1:CC:246:LEU:HA	1.78	0.46
1:CC:289:LEU:HD11	1:CC:363:MET:HG3	1.98	0.46
2:CD:194:LEU:HA	2:CD:198:THR:OG1	2.16	0.46
2:CD:335:ILE:HG23	2:CD:341:ILE:HD11	1.97	0.46
1:CE:186:THR:HG22	1:CE:415:MET:SD	2.55	0.46
2:CF:174:SER:HB2	2:CF:175:PRO:HD2	1.97	0.46
2:CF:250:VAL:HG11	2:CF:352:LYS:NZ	2.30	0.46
2:CH:400:SER:OG	2:CH:401:LYS:NZ	2.46	0.46
1:CK:133:PHE:HD2	1:CK:164:MET:HE1	1.81	0.46
2:CL:84:ARG:HH12	24:1K:670:ARG:CZ	2.28	0.46
1:DA:210:ILE:HD11	1:DA:298:ASN:HA	1.96	0.46
1:DC:232:VAL:O	1:DC:236:VAL:HG23	2.16	0.46
1:DE:242:PHE:HB2	1:DE:354:CYS:SG	2.56	0.46
1:DE:293:MET:HE2	1:DE:367:PHE:CD1	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DF:184:PRO:HG2	2:DF:394:LYS:HE3	1.97	0.46
1:DG:200:MET:HB3	1:DG:268:MET:SD	2.56	0.46
2:DH:399:TYR:OH	2:DH:415:GLU:OE2	2.29	0.46
1:DI:121:ARG:NH1	1:DI:158:GLU:OE2	2.42	0.46
2:DJ:56:THR:HA	2:EI:285:GLN:HE22	1.79	0.46
2:DL:117:LEU:HB2	2:DL:121:ARG:NH1	2.31	0.46
2:DL:145:THR:HG22	71:DL:501:GTP:O1G	2.16	0.46
2:EA:241:SER:HB2	2:EA:250:VAL:H	1.81	0.46
2:EA:288:VAL:HB	2:EA:327:ASP:OD2	2.15	0.46
2:EC:406:HIS:HA	2:EC:409:VAL:HG22	1.97	0.46
2:EE:185:TYR:HE2	2:EE:404:PHE:HB2	1.81	0.46
1:EH:2:ARG:NH1	2:EI:72:PRO:HD2	2.31	0.46
1:EJ:268:MET:HA	1:EJ:268:MET:HE3	1.97	0.46
1:EL:174:ARG:HB2	1:EL:205:GLU:OE2	2.16	0.46
1:F:10:GLY:HA2	1:F:143:THR:HG23	1.97	0.46
2:FE:392:ASP:OD2	2:FE:422:ARG:NH2	2.49	0.46
1:FF:385:PHE:HE2	1:FF:412:GLU:HB2	1.81	0.46
2:FG:173:PRO:HB3	2:FG:183:GLU:OE2	2.16	0.46
2:FG:346:TRP:CD1	1:FH:391:ARG:HD3	2.51	0.46
1:FH:163:ILE:O	1:FH:164:MET:HE2	2.14	0.46
2:GC:326:LYS:HZ1	1:GD:212:PHE:HD1	1.63	0.46
1:GD:133:PHE:HB2	1:GD:164:MET:SD	2.56	0.46
1:GF:245:GLN:HG2	2:GG:224:TYR:HD2	1.80	0.46
2:GG:205:ASP:OD1	2:GG:303:THR:HA	2.16	0.46
2:GI:211:ASP:CG	59:4P:1:MET:HB3	2.40	0.46
1:GJ:144:GLY:N	69:GJ:500:GDP:O2B	2.28	0.46
1:GJ:320:ARG:HH12	43:2t:377:THR:N	2.13	0.46
2:GK:139:HIS:O	2:GK:170:THR:HA	2.15	0.46
2:GK:395:PHE:HD2	2:GK:422:ARG:HD3	1.81	0.46
1:GL:31:ASP:OD1	1:GL:32:PRO:HD2	2.16	0.46
2:HA:353:CYS:HB2	1:HB:177:ASP:HB2	1.98	0.46
1:HB:221:THR:HG23	1:HB:223:GLY:H	1.79	0.46
2:HC:6:CYS:O	2:HC:65:CYS:HA	2.16	0.46
2:HC:262:TYR:OH	1:HD:391:ARG:O	2.33	0.46
2:HE:195:LEU:HG	2:HE:428:LEU:HD21	1.97	0.46
1:HF:67:ASP:O	1:HF:92:PHE:HA	2.15	0.46
1:HF:226:ASN:OD1	69:HF:500:GDP:N1	2.24	0.46
2:HI:239:THR:HG23	2:HI:243:ARG:NH1	2.31	0.46
2:HI:342:GLN:NE2	65:5H:165:VAL:HG13	2.30	0.46
2:HM:241:SER:HA	2:HM:356:ASN:HD21	1.81	0.46
2:HM:282:TYR:OH	2:HM:371:VAL:HA	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:158:GLU:HG3	1:I:159:TYR:CD2	2.51	0.46
1:I:360:GLY:HA3	7:0C:275:SER:O	2.16	0.46
1:IB:355:ASP:OD1	38:2U:193:GLU:HG2	2.16	0.46
2:IC:377:MET:HE3	2:IC:379:ALA:HB2	1.98	0.46
1:IF:152:ILE:CD1	1:IF:164:MET:HE2	2.46	0.46
1:IF:345:ILE:HA	2:IG:398:MET:HE1	1.96	0.46
2:II:326:LYS:HD3	1:IJ:208:TYR:CE1	2.50	0.46
2:IK:164:LYS:HB2	2:IK:164:LYS:HE2	1.68	0.46
2:IK:239:THR:O	2:IK:243:ARG:HG3	2.16	0.46
71:IK:501:GTP:H5'	71:IK:501:GTP:PB	2.56	0.46
2:IM:203:MET:O	2:IM:204:LEU:HD22	2.16	0.46
2:J:150:GLY:O	2:J:154:LEU:HD23	2.16	0.46
1:JA:68:LEU:HD12	1:JA:97:ALA:HB2	1.98	0.46
2:JB:395:PHE:HD2	2:JB:422:ARG:HD3	1.80	0.46
1:JE:25:SER:HB2	1:JE:81:TYR:HE2	1.81	0.46
2:JF:205:ASP:OD1	2:JF:303:THR:HA	2.15	0.46
1:JG:344:TRP:HB3	1:JG:430:VAL:HG12	1.97	0.46
1:JG:416:ASN:CB	60:3s:48:ILE:HG12	2.44	0.46
2:JH:325:PRO:HA	2:JH:328:VAL:HG22	1.96	0.46
2:JJ:130:THR:OG1	18:0p:231:ILE:HD12	2.16	0.46
1:JK:165:MET:HE1	1:JK:200:MET:SD	2.56	0.46
2:JL:259:LEU:HD21	2:JL:268:VAL:HG11	1.97	0.46
2:JN:8:HIS:HB3	2:JN:13:GLY:O	2.16	0.46
2:JN:287:SER:O	2:JN:291:ILE:HG12	2.16	0.46
2:KB:139:HIS:O	2:KB:170:THR:HA	2.16	0.46
2:KB:251:ASP:H	2:KB:254:GLU:CG	2.29	0.46
2:KD:352:LYS:HD2	2:KD:353:CYS:N	2.30	0.46
1:KE:161:ASP:OD2	22:1x:89:ARG:NH2	2.49	0.46
2:KH:211:ASP:HB3	2:KH:215:ARG:NH1	2.30	0.46
1:KI:135:LEU:HG	1:KI:137:HIS:HD2	1.81	0.46
1:KK:325:GLU:H	1:KK:325:GLU:CD	2.23	0.46
2:L:7:ILE:HG12	2:L:122:ILE:HD11	1.97	0.46
1:LA:141:GLY:O	1:LA:145:SER:OG	2.30	0.46
1:LA:167:PHE:CG	1:LA:233:MET:HE2	2.50	0.46
1:LA:221:THR:O	1:LA:225:LEU:HG	2.16	0.46
1:LA:389:PHE:CZ	1:LA:405:GLU:HG3	2.51	0.46
2:LB:312:TYR:HE2	2:LB:341:ILE:HD12	1.81	0.46
1:LC:326:VAL:O	1:LC:330:MET:HG2	2.15	0.46
2:LF:103:TYR:HB3	2:LF:408:TYR:HE1	1.81	0.46
1:LG:139:LEU:HD12	1:LG:170:ILE:HG22	1.98	0.46
1:LG:232:VAL:HG21	1:LG:300:MET:HE1	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LH:79:ARG:HH22	2:LH:94:SER:HB2	1.81	0.46
2:LJ:127:ASP:HA	33:2H:206:HIS:HE1	1.80	0.46
2:LJ:247:ALA:HB1	1:LK:222:PHE:CD2	2.51	0.46
1:LK:61:PRO:HD3	1:LK:84:LEU:HG	1.96	0.46
1:LK:324:LYS:HE2	2:LL:214:ARG:HG3	1.97	0.46
1:LK:382:GLY:O	1:LK:386:THR:HG23	2.15	0.46
2:LL:90:GLU:HG3	2:LL:124:LYS:NZ	2.30	0.46
1:LM:263:LEU:HD21	1:LM:421:GLU:HG3	1.97	0.46
2:MC:163:LYS:HG2	32:2B:60:LYS:HG3	1.97	0.46
1:MF:2:ARG:HE	1:MF:2:ARG:HB2	1.59	0.46
1:MF:100:ASN:HD22	1:MF:103:LYS:NZ	2.14	0.46
1:MF:170:ILE:HD12	1:MF:377:MET:HG3	1.98	0.46
2:MG:39:ASP:OD1	2:MG:40:LYS:N	2.48	0.46
2:MG:251:ASP:N	2:MG:254:GLU:HB3	2.31	0.46
2:MG:334:THR:O	2:MG:338:LYS:HG3	2.16	0.46
1:MN:256:ASN:HD21	1:MN:350:LYS:HE2	1.81	0.46
1:N:169:VAL:HA	1:N:202:ILE:HB	1.97	0.46
1:N:375:GLN:OE1	1:N:379:ARG:NH1	2.48	0.46
2:NA:395:PHE:CD2	2:NA:422:ARG:HD3	2.49	0.46
2:NC:209:ILE:HG21	2:NC:227:VAL:HG13	1.96	0.46
1:ND:14:ASN:ND2	1:ND:67:ASP:HB2	2.30	0.46
1:ND:184:ASN:OD1	1:ND:398:TYR:OH	2.23	0.46
1:NF:11:GLN:HA	1:NF:72:THR:HG21	1.98	0.46
2:NK:259:LEU:HD21	2:NK:268:VAL:HG11	1.98	0.46
1:NL:134:GLN:HA	1:NL:165:MET:O	2.16	0.46
1:O:54:SER:OG	1:O:55:SER:N	2.47	0.46
1:O:140:GLY:C	1:O:184:ASN:HD21	2.24	0.46
2:OA:222:PRO:HB3	2:OA:226:ASN:HD21	1.81	0.46
2:OE:116:ASP:OD1	2:OE:116:ASP:N	2.47	0.46
2:OE:251:ASP:H	2:OE:254:GLU:CB	2.28	0.46
2:OI:105:ARG:HG2	2:OI:105:ARG:HH11	1.81	0.46
1:OJ:68:LEU:HB3	1:OJ:96:GLY:HA2	1.98	0.46
2:OK:186:ASN:OD1	2:OK:408:TYR:OH	2.33	0.46
2:OK:234:VAL:HG13	2:OK:376:CYS:SG	2.56	0.46
1:OL:175:VAL:HG21	1:OL:204:ASN:HB3	1.96	0.46
1:OL:257:LEU:HD21	1:OL:314:SER:HB2	1.98	0.46
1:PB:324:LYS:O	1:PB:328:GLU:CB	2.64	0.46
2:PC:11:GLN:N	71:PC:501:GTP:O2B	2.29	0.46
1:PF:152:ILE:HG22	1:PF:195:ASN:HB3	1.98	0.46
1:PH:327:ASP:HB3	2:PI:177:VAL:HG13	1.96	0.46
1:PH:395:LEU:HA	1:PH:398:TYR:HD1	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PI:136:MET:HE3	2:PI:252:LEU:HD11	1.98	0.46
2:PI:335:ILE:HD12	2:PI:338:LYS:HD3	1.96	0.46
2:PM:141:VAL:HG13	2:PM:170:THR:HG21	1.97	0.46
2:Q:248:LEU:HB2	2:Q:354:GLY:HA2	1.96	0.46
1:QC:267:MET:HE1	1:QC:305:PRO:HG3	1.98	0.46
1:QE:404:ASP:OD1	1:QE:405:GLU:N	2.48	0.46
1:QG:10:GLY:O	1:QG:14:ASN:ND2	2.49	0.46
2:QH:209:ILE:HG23	2:QH:230:LEU:HD22	1.97	0.46
2:QJ:7:ILE:HG23	2:QJ:66:LEU:HD23	1.98	0.46
1:QK:345:ILE:HB	1:QK:348:ASN:ND2	2.30	0.46
2:R:98:ASP:N	2:R:98:ASP:OD1	2.49	0.46
1:RC:67:ASP:OD2	1:RC:72:THR:OG1	2.28	0.46
1:RE:350:LYS:NZ	1:RE:352:SER:OG	2.49	0.46
1:RG:362:LYS:HG3	1:RG:363:MET:HG3	1.98	0.46
2:RH:136:MET:HE1	2:RH:235:VAL:HG13	1.98	0.46
2:RH:319:TYR:HB3	2:RH:323:VAL:HG21	1.97	0.46
1:RI:200:MET:HG3	1:RI:266:PHE:HB2	1.97	0.46
1:RK:26:ASP:OD1	1:RK:359:LYS:HG2	2.15	0.46
2:RL:147:SER:HB2	2:RL:190:SER:HB3	1.97	0.46
2:RL:172:TYR:CE2	2:RL:203:MET:HE1	2.50	0.46
2:RL:269:LEU:HD22	2:RL:303:THR:HG21	1.97	0.46
2:SC:127:ASP:N	2:SC:127:ASP:OD2	2.46	0.46
2:SC:182:VAL:HG22	2:SC:185:TYR:HB2	1.98	0.46
2:SE:5:ILE:HG23	2:SE:125:LEU:HD13	1.98	0.46
2:SE:206:ASN:OD1	71:SE:501:GTP:N2	2.47	0.46
2:SE:434:GLU:OE2	58:3m:133:LEU:HD11	2.15	0.46
1:SF:134:GLN:HA	1:SF:165:MET:HB3	1.97	0.46
2:SG:387:VAL:HA	2:SG:390:ARG:HH12	1.79	0.46
1:SH:12:CYS:O	1:SH:16:ILE:HG12	2.16	0.46
2:SI:270:THR:HG23	2:SI:302:LEU:HD23	1.97	0.46
2:SK:173:PRO:HB3	2:SK:183:GLU:OE2	2.15	0.46
1:TF:329:GLN:O	1:TF:333:VAL:HG23	2.16	0.46
1:TF:417:ASP:O	1:TF:421:GLU:HG3	2.15	0.46
1:UD:173:PRO:HD2	1:UD:380:ARG:NH2	2.30	0.46
2:UE:205:ASP:OD1	2:UE:303:THR:HA	2.14	0.46
2:UE:257:THR:HG21	1:UF:98:GLY:O	2.15	0.46
1:UF:251:ARG:HG3	1:UF:251:ARG:HH11	1.81	0.46
2:UG:227:VAL:O	2:UG:231:ILE:HG12	2.16	0.46
1:VB:40:SER:HB3	1:VB:43:GLN:HG3	1.98	0.46
1:VL:324:LYS:HZ1	2:VM:210:TYR:HB3	1.79	0.46
2:VM:313:MET:HE2	2:VM:313:MET:HB3	1.74	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:22:GLU:HA	1:W:81:TYR:CD2	2.51	0.46
2:WA:53:PHE:HB3	2:WA:61:HIS:HB3	1.97	0.46
2:WC:9:ILE:HD11	2:WC:153:LEU:HD23	1.96	0.46
2:WC:246:GLY:HA3	2:WC:356:ASN:HA	1.98	0.46
2:WC:275:VAL:O	2:WC:275:VAL:HG13	2.15	0.46
1:WD:210:ILE:HD11	1:WD:298:ASN:HA	1.97	0.46
2:WE:33:ASP:HA	2:WE:85:GLN:HB2	1.97	0.46
2:WE:306:ASP:OD2	2:WE:308:ARG:NH2	2.35	0.46
1:WF:100:ASN:HB3	1:WF:103:LYS:HB2	1.97	0.46
1:WF:233:MET:O	1:WF:236:VAL:HG12	2.15	0.46
2:WG:63:PRO:HG2	2:WG:87:PHE:CE1	2.51	0.46
1:WJ:74:ASP:HA	1:WJ:77:ARG:HG2	1.96	0.46
1:WJ:276:ARG:NH1	9:0N:130:ASP:OD1	2.49	0.46
3:XD:134:PHE:CE1	3:XD:139:PHE:HD2	2.33	0.46
3:XE:170:ARG:HG3	3:XE:170:ARG:HH11	1.80	0.46
4:XR:218:THR:HA	4:XR:221:ILE:HG22	1.97	0.46
6:0A:220:ARG:HH21	6:0A:226:THR:HG21	1.81	0.46
8:0I:118:ARG:HG2	8:0I:118:ARG:HH11	1.80	0.46
8:0I:135:ILE:HG22	8:0I:139:LYS:HE3	1.98	0.46
8:0I:308:ARG:HE	8:0I:309:LEU:HD22	1.81	0.46
8:0J:262:LEU:O	8:0J:266:GLU:HG3	2.15	0.46
8:0J:452:GLU:HG3	8:0J:455:ARG:HE	1.80	0.46
9:0N:475:SER:HB3	9:0N:480:GLU:HB2	1.97	0.46
9:0N:597:LYS:HE2	9:0N:597:LYS:HB2	1.71	0.46
10:0S:476:ARG:HG3	10:0S:476:ARG:HH11	1.81	0.46
12:0W:100:ILE:HD13	12:0W:111:TYR:HD2	1.81	0.46
12:0W:114:MET:SD	43:2t:191:ARG:NH1	2.89	0.46
14:0c:289:LEU:HD13	21:0v:59:GLN:OE1	2.15	0.46
16:0l:408:GLN:O	16:0l:411:ARG:NH1	2.49	0.46
16:0k:16:ARG:HA	16:0k:19:VAL:HG22	1.97	0.46
16:0k:798:HIS:HB2	16:0k:836:ASP:HB3	1.97	0.46
20:0t:73:ASN:OD1	20:0t:74:ALA:N	2.48	0.46
23:1A:57:MET:HA	23:1A:57:MET:HE2	1.97	0.46
23:1E:68:ASP:OD2	23:1E:72:ARG:NH2	2.48	0.46
23:1F:376:GLN:HE22	29:1l:203:GLU:CD	2.23	0.46
24:1H:674:MET:HE1	24:1H:733:MET:HE1	1.97	0.46
26:1Q:552:TYR:CG	26:1Q:568:VAL:HG22	2.50	0.46
27:1S:344:LYS:HB2	27:1S:362:MET:SD	2.55	0.46
28:1h:75:LYS:HE3	28:1h:83:GLU:OE1	2.16	0.46
22:1w:80:ARG:HA	22:1w:80:ARG:HD2	1.74	0.46
22:1y:182:LEU:O	22:1y:186:ILE:HG13	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2C:112:VAL:HG11	33:2H:155:ARG:CZ	2.45	0.46
33:2G:103:MET:HE2	33:2G:103:MET:HB2	1.77	0.46
33:2H:96:GLU:OE2	33:2H:109:THR:OG1	2.26	0.46
33:2H:227:HIS:HB3	33:2H:232:CYS:HB3	1.97	0.46
34:2L:27:TYR:HB3	34:2L:35:ARG:HH12	1.81	0.46
37:2S:150:ASN:O	37:2S:186:GLY:HA3	2.16	0.46
40:2Z:116:ASN:ND2	40:2Z:119:ARG:HD3	2.30	0.46
41:2k:289:CYS:O	41:2k:293:GLU:OE1	2.33	0.46
41:2l:351:ARG:HB3	41:2l:351:ARG:CZ	2.46	0.46
42:2r:199:SER:O	42:2r:202:GLU:HG2	2.16	0.46
44:2w:385:LEU:O	44:2w:389:ILE:HG12	2.16	0.46
49:3P:350:ASN:HB2	49:3P:354:LYS:NZ	2.31	0.46
49:3Q:15:ILE:O	49:3Q:15:ILE:HG13	2.14	0.46
49:3Q:22:ILE:HG22	49:3Q:25:ARG:NH2	2.30	0.46
56:3d:189:ARG:HG3	56:3d:189:ARG:HH11	1.80	0.46
59:3o:247:LEU:HD12	59:3o:251:LEU:HD11	1.97	0.46
60:3r:127:ARG:O	60:3r:130:LYS:HG3	2.16	0.46
65:5G:189:GLU:HG2	66:5K:233:ARG:HE	1.80	0.46
67:5P:33:TYR:CE1	67:5P:37:GLY:HA2	2.50	0.46
1:A:67:ASP:HB3	1:A:69:GLU:H	1.81	0.46
1:A:152:ILE:HG23	1:A:195:ASN:HB2	1.97	0.46
2:AC:252:LEU:HA	2:AC:255:PHE:CE1	2.51	0.46
2:AG:396:ASP:OD2	2:AG:422:ARG:NH2	2.41	0.46
1:AJ:362:LYS:HA	1:AJ:362:LYS:HE2	1.97	0.46
1:AL:255:VAL:HG11	2:AM:100:ALA:O	2.16	0.46
1:AL:324:LYS:HZ2	2:AM:222:PRO:HG2	1.81	0.46
2:AM:108:TYR:CE2	2:AM:413:MET:HB2	2.50	0.46
2:AM:156:ARG:HA	2:AM:159:VAL:HG12	1.97	0.46
2:AM:215:ARG:HH21	2:AM:299:ALA:C	2.23	0.46
2:AM:237:SER:HA	2:AM:320:ARG:HH11	1.80	0.46
1:BF:12:CYS:SG	1:BF:169:VAL:HG21	2.55	0.46
1:BF:68:LEU:HD12	1:BF:97:ALA:HB2	1.96	0.46
1:BH:333:VAL:HA	1:BH:336:LYS:HG2	1.98	0.46
2:BK:71:GLU:HB2	2:BK:98:ASP:HB2	1.96	0.46
1:BN:68:LEU:HD12	1:BN:97:ALA:HB2	1.97	0.46
2:C:15:GLN:HB3	2:C:228:ASN:ND2	2.30	0.46
2:C:21:TRP:CZ3	2:C:63:PRO:HB3	2.51	0.46
2:C:84:ARG:HH22	24:1H:670:ARG:NH1	2.13	0.46
2:C:204:LEU:HD22	2:C:231:ILE:HG12	1.98	0.46
2:C:258:ASN:HB3	1:CA:179:VAL:HG23	1.97	0.46
2:CB:11:GLN:N	71:CB:501:GTP:O2B	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:26:LEU:HD21	2:CB:363:VAL:HG12	1.98	0.46
1:CC:262:ARG:HH22	1:CC:418:LEU:HB2	1.81	0.46
2:CD:220:GLU:HG2	16:0k:424:VAL:HG23	1.97	0.46
1:CE:87:PRO:HD3	1:DE:281:TYR:CD1	2.51	0.46
1:CG:9:ALA:HB3	1:CG:137:HIS:HB3	1.98	0.46
2:CJ:2:ARG:HA	2:CJ:133:GLN:HE21	1.80	0.46
2:CJ:5:ILE:HD12	2:CJ:125:LEU:HD13	1.96	0.46
2:CJ:15:GLN:HB3	2:CJ:228:ASN:ND2	2.31	0.46
2:CJ:39:ASP:HB2	24:1J:363:GLN:HB3	1.97	0.46
1:CM:274:THR:HG22	1:CM:282:ARG:HD3	1.97	0.46
1:CM:361:LEU:HD11	24:1K:327:VAL:HG21	1.98	0.46
1:DC:116:VAL:HA	1:DC:119:VAL:HG22	1.97	0.46
2:DD:103:TYR:HB3	2:DD:408:TYR:HE2	1.80	0.46
2:DF:157:LEU:HB3	2:DF:166:LYS:HE2	1.98	0.46
1:DG:113:ILE:O	1:DG:117:LEU:HD23	2.16	0.46
1:DG:268:MET:HA	1:DG:268:MET:HE3	1.98	0.46
2:DJ:271:SER:HB3	2:DJ:301:MET:HG2	1.98	0.46
1:DM:134:GLN:HE21	1:DM:167:PHE:HE2	1.64	0.46
1:EB:2:ARG:HH11	2:EC:72:PRO:HD2	1.80	0.46
1:EF:240:LEU:HD21	1:EF:249:ASP:HB3	1.98	0.46
1:EF:255:VAL:HG23	2:EG:407:TRP:CG	2.51	0.46
2:EK:311:LYS:NZ	2:EK:436:GLY:O	2.47	0.46
2:EK:422:ARG:HH12	2:EK:426:ALA:HB2	1.81	0.46
1:EL:215:LEU:HD21	1:EL:273:LEU:HD22	1.98	0.46
1:F:304:ASP:HB3	1:F:307:HIS:CD2	2.51	0.46
2:FK:174:SER:HB2	2:FK:207:GLU:OE1	2.14	0.46
2:GA:258:ASN:OD1	1:GB:179:VAL:HG22	2.15	0.46
2:GE:285:GLN:HE22	2:GE:287:SER:HB3	1.80	0.46
1:GJ:46:ARG:HH21	2:GK:73:THR:HA	1.79	0.46
2:GK:1:MET:N	2:GK:3:GLU:OE2	2.37	0.46
1:GL:165:MET:HE3	1:GL:250:LEU:HD12	1.96	0.46
1:H:21:TRP:CD1	1:H:85:PHE:HE1	2.33	0.46
1:HB:180:VAL:O	1:HB:180:VAL:HG12	2.15	0.46
1:HD:206:ALA:HB1	1:HD:300:MET:HA	1.98	0.46
2:HE:160:ASP:OD1	2:HE:161:TYR:N	2.48	0.46
2:HE:395:PHE:HD2	2:HE:422:ARG:HD3	1.81	0.46
2:HG:138:PHE:HE2	2:HG:235:VAL:HG21	1.81	0.46
2:HI:123:ARG:NH2	2:II:297:GLU:OE1	2.37	0.46
2:HI:392:ASP:HB2	2:HI:422:ARG:CZ	2.46	0.46
1:HL:372:THR:HG21	1:HL:426:GLN:HB3	1.97	0.46
1:I:14:ASN:ND2	1:I:67:ASP:HB2	2.27	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:372:THR:HA	1:I:422:TYR:CD1	2.51	0.46
2:IA:31:GLN:HB3	38:2U:156:TYR:CD1	2.51	0.46
2:IA:108:TYR:HA	2:IA:112:LYS:HE2	1.97	0.46
2:IA:127:ASP:OD1	2:IA:128:ASN:N	2.48	0.46
2:IA:136:MET:HE1	2:IA:169:TYR:HE1	1.79	0.46
2:IA:195:LEU:HD21	2:IA:264:ARG:HD2	1.96	0.46
1:IB:272:PRO:HG3	1:IB:289:LEU:HD21	1.97	0.46
2:IC:21:TRP:HZ2	2:IC:65:CYS:HB3	1.81	0.46
2:IE:390:ARG:HD2	2:IE:390:ARG:C	2.41	0.46
2:IK:52:PHE:CD2	2:IK:243:ARG:HD3	2.50	0.46
2:IK:251:ASP:H	2:IK:254:GLU:HB2	1.81	0.46
2:IM:142:GLY:HA2	2:IM:183:GLU:HG3	1.97	0.46
2:J:127:ASP:OD1	2:J:128:ASN:N	2.49	0.46
1:JA:237:THR:OG1	1:JA:241:ARG:NH1	2.49	0.46
1:JA:255:VAL:HG23	2:JB:407:TRP:CG	2.51	0.46
1:JC:323:THR:HG21	2:JD:224:TYR:CE1	2.51	0.46
1:JG:236:VAL:HA	1:JG:316:LEU:HD13	1.96	0.46
2:JJ:5:ILE:HD12	2:JJ:125:LEU:HB3	1.98	0.46
1:JK:51:PHE:C	1:JK:62:ARG:HH21	2.24	0.46
1:JM:189:VAL:O	1:JM:193:VAL:HG23	2.16	0.46
2:JN:205:ASP:OD2	2:JN:206:ASN:N	2.44	0.46
1:KA:215:LEU:HD11	1:KA:228:LEU:HD21	1.97	0.46
2:KH:109:THR:HG21	35:2O:9:ILE:HG22	1.98	0.46
2:KJ:211:ASP:O	2:KJ:215:ARG:HG2	2.16	0.46
2:KN:319:TYR:HB3	2:KN:323:VAL:HG21	1.98	0.46
2:L:274:PRO:HD2	2:L:371:VAL:HG21	1.98	0.46
1:LC:272:PRO:HD3	1:LC:364:SER:HA	1.97	0.46
2:LD:293:ASN:O	2:LD:297:GLU:HG2	2.15	0.46
1:LG:111:GLU:OE2	33:2G:257:ARG:HG2	2.15	0.46
2:LH:173:PRO:HG3	2:LH:183:GLU:HG2	1.97	0.46
2:LH:353:CYS:HB2	1:LI:177:ASP:HB2	1.97	0.46
1:LI:74:ASP:OD1	19:0r:297:THR:HA	2.15	0.46
1:LI:219:THR:HG23	1:LI:219:THR:O	2.16	0.46
2:LJ:395:PHE:CD1	2:LJ:422:ARG:HD3	2.51	0.46
1:LK:66:MET:SD	1:LK:151:LEU:HD22	2.55	0.46
1:LK:215:LEU:HD21	1:LK:273:LEU:HG	1.97	0.46
1:LM:360:GLY:HA2	23:1F:386:ASP:OD1	2.16	0.46
2:LN:102:ASN:HB3	2:LN:105:ARG:HB3	1.98	0.46
2:LN:122:ILE:HG22	2:LN:161:TYR:OH	2.16	0.46
1:LO:336:LYS:HB2	35:2O:186:ARG:HH11	1.81	0.46
1:M:290:THR:HA	1:M:293:MET:HE2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MC:326:LYS:HB3	1:MD:208:TYR:HE2	1.79	0.46
1:MD:248:SER:HA	1:MD:252:LYS:HD2	1.98	0.46
1:MF:317:PHE:CD1	1:MF:365:VAL:HB	2.50	0.46
2:MI:117:LEU:O	2:MI:121:ARG:HG2	2.16	0.46
1:MJ:91:ILE:HD11	1:MJ:119:VAL:HG11	1.98	0.46
1:MJ:222:PHE:CE2	69:MJ:500:GDP:C6	3.03	0.46
1:ML:165:MET:HE2	1:ML:167:PHE:CE1	2.51	0.46
1:ML:362:LYS:HE2	23:1B:261:LEU:HD23	1.98	0.46
2:MM:27:GLU:OE2	2:MM:236:SER:OG	2.26	0.46
2:MM:307:PRO:HB3	2:MM:312:TYR:CE1	2.41	0.46
2:NA:201:ALA:O	2:NA:268:VAL:HG12	2.15	0.46
2:NC:142:GLY:CA	2:NC:183:GLU:HG3	2.46	0.46
2:NC:384:ILE:O	2:NC:387:VAL:HG22	2.15	0.46
1:ND:332:ASN:O	1:ND:336:LYS:HG2	2.15	0.46
2:NE:142:GLY:CA	2:NE:183:GLU:HG3	2.46	0.46
1:NH:175:VAL:HG11	1:NH:204:ASN:HB3	1.96	0.46
2:NI:68:LEU:HG	2:NI:149:LEU:HD21	1.98	0.46
2:NI:251:ASP:H	2:NI:254:GLU:HB3	1.79	0.46
1:NJ:211:CYS:HB3	1:NJ:220:PRO:HG3	1.98	0.46
2:NK:9:ILE:HD12	2:NK:68:LEU:HD23	1.97	0.46
1:NL:183:TYR:OH	1:NL:393:ALA:O	2.14	0.46
1:OD:358:PRO:C	28:1g:215:ARG:HH21	2.23	0.46
1:OD:389:PHE:HZ	1:OD:405:GLU:HG3	1.81	0.46
2:OG:123:ARG:NH2	2:PG:297:GLU:OE2	2.49	0.46
1:OL:20:PHE:O	1:OL:24:ILE:HG12	2.15	0.46
1:OL:312:THR:HG22	1:OL:370:ASN:HB3	1.98	0.46
1:OL:420:SER:HA	1:OL:423:GLN:HG3	1.97	0.46
2:OM:135:PHE:CG	2:OM:157:LEU:HD21	2.51	0.46
2:OM:311:LYS:N	2:OM:382:THR:OG1	2.39	0.46
1:P:6:SER:HA	1:P:134:GLN:HB3	1.96	0.46
1:P:128:ASP:N	1:P:128:ASP:OD1	2.43	0.46
1:P:331:LEU:HD11	2:PA:176:GLN:HB3	1.98	0.46
2:PA:105:ARG:HH21	2:PA:110:ILE:HD11	1.80	0.46
2:PA:232:GLY:HA2	2:PA:235:VAL:HG12	1.98	0.46
1:PB:207:LEU:HB3	1:PB:225:LEU:HD11	1.98	0.46
2:PC:153:LEU:O	2:PC:157:LEU:HD23	2.16	0.46
2:PC:250:VAL:HG11	2:PC:352:LYS:HE2	1.97	0.46
1:PF:97:ALA:HB2	1:PF:143:THR:HB	1.98	0.46
1:PF:215:LEU:HD11	1:PF:228:LEU:HD21	1.98	0.46
1:PF:221:THR:HG23	1:PF:223:GLY:H	1.80	0.46
1:PH:371:ASN:OD1	1:PH:372:THR:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PI:167:LEU:HD13	2:PI:200:VAL:CG2	2.46	0.46
2:PI:252:LEU:HA	2:PI:255:PHE:CE1	2.51	0.46
2:PK:426:ALA:HA	2:PK:429:GLU:OE1	2.16	0.46
1:PL:144:GLY:N	69:PL:500:GDP:O2B	2.37	0.46
2:QB:237:SER:HA	2:QB:320:ARG:HD2	1.96	0.46
1:QC:51:PHE:HB3	1:QC:59:TYR:HB3	1.97	0.46
2:QD:192:HIS:ND1	2:QD:424:ASP:OD2	2.44	0.46
2:QD:208:ALA:HB1	2:QD:301:MET:O	2.16	0.46
1:QE:60:VAL:HG11	1:QE:86:ARG:HB2	1.98	0.46
1:QG:100:ASN:HB3	1:QG:103:LYS:HB3	1.98	0.46
1:QG:103:LYS:NZ	1:QG:401:GLU:OE2	2.41	0.46
2:QH:105:ARG:HE	2:QH:110:ILE:HD13	1.80	0.46
1:QI:20:PHE:HA	1:QI:230:ALA:HB1	1.98	0.46
1:QK:16:ILE:HD12	69:QK:500:GDP:PA	2.56	0.46
2:QL:91:GLN:HG2	2:QL:91:GLN:O	2.15	0.46
2:QL:115:VAL:HG21	2:QL:152:LEU:CD2	2.43	0.46
2:R:224:TYR:O	2:R:228:ASN:ND2	2.48	0.46
2:RD:172:TYR:HB3	2:RD:173:PRO:HD2	1.97	0.46
2:RF:118:ALA:O	2:RF:122:ILE:HG12	2.16	0.46
1:RG:27:GLU:OE1	1:RG:241:ARG:NH1	2.48	0.46
1:RI:173:PRO:N	1:RI:380:ARG:HH12	2.13	0.46
1:S:286:VAL:HG11	1:S:326:VAL:HA	1.96	0.46
1:SB:128:ASP:O	61:3w:186:ARG:NH1	2.35	0.46
2:SC:335:ILE:HG23	2:SC:341:ILE:HD11	1.97	0.46
2:SE:317:LEU:HD21	2:SE:377:MET:HE3	1.98	0.46
2:SG:258:ASN:HD21	1:SH:99:ASN:HD22	1.64	0.46
1:SH:210:ILE:O	1:SH:214:THR:OG1	2.27	0.46
2:SI:203:MET:HE3	2:SI:267:PHE:HB3	1.96	0.46
1:SJ:68:LEU:HD12	1:SJ:97:ALA:HB2	1.96	0.46
2:TA:57:GLY:O	8:0I:246:ARG:NH1	2.49	0.46
1:TB:173:PRO:HD3	1:TB:380:ARG:CZ	2.46	0.46
2:TC:257:THR:HG1	1:TD:397:TRP:CD1	2.34	0.46
1:TF:203:ASP:OD2	1:TF:302:ALA:HB3	2.15	0.46
2:TG:31:GLN:HG2	2:TG:37:PRO:HD3	1.98	0.46
2:TG:344:VAL:HG11	2:TG:346:TRP:CE2	2.51	0.46
1:TJ:202:ILE:HG23	1:TJ:300:MET:HB3	1.97	0.46
2:TK:202:THR:HG23	2:TK:270:THR:HG21	1.98	0.46
1:TL:276:ARG:HG2	21:0x:451:LEU:HD11	1.97	0.46
2:UA:252:LEU:HA	2:UA:255:PHE:CE1	2.50	0.46
2:UA:345:ASP:OD1	2:UA:345:ASP:N	2.48	0.46
1:UB:173:PRO:HG3	1:UB:384:GLN:NE2	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:UE:268:VAL:HG21	2:UE:378:ILE:HG13	1.97	0.46
1:UJ:329:GLN:O	1:UJ:333:VAL:HG23	2.15	0.46
1:UL:135:LEU:HD23	1:UL:152:ILE:HD11	1.98	0.46
2:VA:247:ALA:HB3	2:VA:355:ILE:HB	1.98	0.46
1:VD:213:ARG:NH1	30:1o:29:MET:HB3	2.30	0.46
2:VE:21:TRP:CZ2	2:VE:65:CYS:HB3	2.51	0.46
2:VE:116:ASP:OD1	2:VE:116:ASP:N	2.49	0.46
2:VE:199:ASP:HB3	2:VE:256:GLN:NE2	2.31	0.46
2:VG:136:MET:HE2	2:VG:169:TYR:HE1	1.81	0.46
2:VG:174:SER:HB3	2:VG:207:GLU:HG3	1.98	0.46
1:VJ:232:VAL:HG11	1:VJ:268:MET:HG2	1.96	0.46
1:VL:192:LEU:O	1:VL:196:SER:OG	2.29	0.46
1:VL:257:LEU:HB3	1:VL:266:PHE:CZ	2.49	0.46
1:VL:347:ASN:C	1:VL:347:ASN:HD22	2.24	0.46
2:VM:33:ASP:OD2	2:VM:34:GLY:N	2.49	0.46
2:VM:318:MET:HA	2:VM:318:MET:HE2	1.97	0.46
1:WB:203:ASP:HB3	1:WB:301:GLN:HA	1.97	0.46
1:WH:215:LEU:HD21	1:WH:273:LEU:HD22	1.97	0.46
1:WH:263:LEU:HD21	1:WH:421:GLU:HG3	1.97	0.46
2:WI:32:PRO:HB3	2:WI:83:TYR:HA	1.97	0.46
2:WI:204:LEU:HD13	2:WI:231:ILE:HD13	1.97	0.46
2:WK:268:VAL:HG23	2:WK:378:ILE:HD11	1.97	0.46
5:XP:124:LYS:HA	5:XP:219:ARG:HB3	1.97	0.46
5:XP:232:GLN:HG2	5:XP:287:THR:HG22	1.97	0.46
6:0A:176:LYS:HE3	6:0A:210:ARG:NH1	2.31	0.46
6:0:159:ASN:ND2	33:2F:287:ARG:H	2.13	0.46
9:0M:93:PHE:HE1	9:0M:100:LEU:HD13	1.81	0.46
9:0M:591:HIS:CG	9:0M:595:ILE:HG12	2.50	0.46
9:0N:257:ASP:OD1	9:0N:272:LYS:HB2	2.15	0.46
9:0O:265:GLY:O	9:0O:283:VAL:HG22	2.15	0.46
10:0R:272:ALA:HA	10:0R:275:GLN:HG2	1.96	0.46
15:0f:111:ASN:O	15:0f:115:LEU:HD23	2.15	0.46
16:0l:26:LEU:HD23	16:0l:101:PHE:HE2	1.80	0.46
16:0k:563:ILE:O	16:0k:600:VAL:N	2.48	0.46
17:0n:304:ALA:O	17:0n:308:ARG:HG2	2.16	0.46
19:0r:302:PHE:HD2	19:0r:305:ALA:HB3	1.81	0.46
24:1I:578:THR:OG1	24:1I:581:GLU:OE1	2.20	0.46
22:1w:158:ARG:HH22	48:3F:82:ARG:NH2	2.14	0.46
41:2o:171:GLU:OE2	41:2o:174:ARG:NH2	2.46	0.46
44:2v:218:ARG:HH12	44:2v:380:ASP:HB3	1.81	0.46
44:2w:263:MET:O	44:2w:267:ILE:HG12	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:2w:380:ASP:HA	44:2w:383:ASN:HD22	1.80	0.46
46:3B:125:LEU:HD11	46:3B:195:TYR:HD2	1.81	0.46
49:3Q:9:TYR:CD2	49:3Q:15:ILE:HD11	2.51	0.46
49:3Q:93:LEU:HD23	49:3Q:124:TRP:CH2	2.51	0.46
53:3W:303:GLU:O	53:3W:307:LEU:HG	2.16	0.46
57:3f:166:LYS:HD2	57:3f:167:TYR:CE2	2.51	0.46
57:3g:93:HIS:HA	57:3g:96:ASP:OD2	2.16	0.46
58:3m:50:LEU:O	58:3m:54:ILE:HG12	2.16	0.46
65:5H:234:LYS:HA	65:5H:237:ARG:HD3	1.98	0.46
68:5T:81:VAL:HG13	68:5T:88:ARG:NH2	2.24	0.46
1:A:186:THR:HG21	1:A:385:PHE:CE2	2.51	0.46
1:A:286:VAL:HG11	1:A:325:GLU:HB3	1.98	0.46
1:A:375:GLN:HB2	1:A:419:VAL:HG13	1.96	0.46
2:AA:90:GLU:O	2:AA:91:GLN:HG3	2.15	0.46
1:AB:313:ALA:HB1	1:AB:367:PHE:HE1	1.80	0.46
1:AD:316:LEU:HD22	1:AD:352:SER:HB2	1.96	0.46
1:AD:375:GLN:OE1	1:AD:379:ARG:NH2	2.49	0.46
2:AI:241:SER:HB2	2:AI:250:VAL:H	1.81	0.46
1:AL:46:ARG:NH2	2:AM:76:ASP:OD2	2.46	0.46
1:AN:359:LYS:HE3	1:AN:359:LYS:HB3	1.83	0.46
2:BA:99:ALA:O	2:BA:105:ARG:HD3	2.15	0.46
2:BA:307:PRO:HB3	2:BA:312:TYR:CE1	2.51	0.46
1:BD:173:PRO:HD2	1:BD:380:ARG:NH1	2.31	0.46
2:BE:129:CYS:SG	2:BE:132:LEU:HB2	2.56	0.46
2:BG:119:LEU:HD21	2:BG:156:ARG:HB2	1.98	0.46
2:BI:70:LEU:HD21	2:BI:114:ILE:HG21	1.97	0.46
2:BI:181:VAL:O	2:BI:398:MET:HE1	2.16	0.46
2:BI:325:PRO:HG2	1:BJ:222:PHE:CE1	2.51	0.46
2:BK:205:ASP:OD1	2:BK:303:THR:HA	2.16	0.46
1:BL:272:PRO:HG3	1:BL:284:LEU:HD13	1.97	0.46
1:CA:10:GLY:O	1:CA:14:ASN:ND2	2.44	0.46
2:CB:322:ASP:OD1	2:CB:372:GLN:HB3	2.16	0.46
1:CK:3:GLU:OE2	1:CK:127:CYS:HB3	2.15	0.46
1:CK:22:GLU:OE2	1:CK:80:PRO:HG2	2.16	0.46
1:CM:290:THR:HA	1:CM:293:MET:HG3	1.98	0.46
2:D:96:LYS:HA	2:D:96:LYS:HD2	1.75	0.46
1:DA:259:PRO:HA	2:DB:404:PHE:CD2	2.51	0.46
1:DC:163:ILE:HD11	1:DC:251:ARG:HG3	1.97	0.46
1:DC:235:GLY:HA3	1:DC:366:THR:HG21	1.98	0.46
2:DD:177:VAL:N	2:DD:207:GLU:OE2	2.27	0.46
2:DH:88:ASN:HB3	2:DH:91:GLN:HE21	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DH:129:CYS:SG	2:DH:132:LEU:HB2	2.56	0.46
1:DI:255:VAL:HG11	2:DJ:100:ALA:O	2.16	0.46
2:DL:224:TYR:O	2:DL:228:ASN:ND2	2.49	0.46
1:E:242:PHE:HB2	1:E:354:CYS:SG	2.56	0.46
1:E:330:MET:O	1:E:334:GLN:HG2	2.15	0.46
2:EA:173:PRO:HG3	2:EA:183:GLU:HG2	1.97	0.46
1:EB:263:LEU:HD21	1:EB:421:GLU:HG3	1.97	0.46
2:EG:212:LEU:HD21	2:EG:275:VAL:HG11	1.98	0.46
1:F:350:LYS:HG2	2:FA:179:THR:O	2.16	0.46
2:FA:331:ALA:O	2:FA:335:ILE:HG12	2.15	0.46
2:FC:350:GLY:H	1:FD:179:VAL:HG23	1.79	0.46
1:FD:313:ALA:HB1	1:FD:367:PHE:CE2	2.51	0.46
2:FE:175:PRO:HB3	2:FE:390:ARG:NH1	2.31	0.46
1:FF:301:GLN:NE2	1:FF:377:MET:HG3	2.31	0.46
2:FG:205:ASP:OD1	2:FG:205:ASP:N	2.45	0.46
1:FH:67:ASP:OD1	1:FH:68:LEU:N	2.49	0.46
1:FJ:121:ARG:O	1:FJ:125:GLU:HG3	2.16	0.46
1:GB:100:ASN:OD1	1:GB:102:ALA:N	2.48	0.46
1:GB:253:LEU:HD21	1:GB:316:LEU:HD11	1.97	0.46
1:GB:267:MET:HB2	1:GB:299:MET:HE1	1.97	0.46
2:GC:167:LEU:HD22	2:GC:200:VAL:HB	1.97	0.46
1:GD:20:PHE:O	1:GD:24:ILE:HG12	2.16	0.46
1:GF:86:ARG:HG3	1:GF:87:PRO:HD2	1.98	0.46
2:GK:275:VAL:HG23	2:GK:368:LEU:HD11	1.97	0.46
2:GK:291:ILE:O	2:GK:295:VAL:HG23	2.15	0.46
1:H:288:GLU:O	1:H:291:GLN:HG3	2.16	0.46
2:HA:222:PRO:HA	2:HA:226:ASN:ND2	2.31	0.46
2:HE:79:ARG:NH1	2:HE:92:LEU:O	2.49	0.46
2:HG:346:TRP:O	1:HH:388:MET:HG2	2.16	0.46
2:HI:6:CYS:O	2:HI:65:CYS:HA	2.16	0.46
2:HK:189:LEU:HD13	2:HK:413:MET:HE1	1.98	0.46
1:HL:174:ARG:HB3	1:HL:205:GLU:OE2	2.16	0.46
1:HL:336:LYS:O	64:5D:92:GLY:HA2	2.16	0.46
1:I:9:ALA:HB2	1:I:66:MET:HE3	1.98	0.46
1:I:68:LEU:HD23	1:I:112:LEU:HD13	1.97	0.46
1:I:246:LEU:HB3	1:I:353:ILE:H	1.81	0.46
2:IA:269:LEU:HD23	2:IA:379:ALA:O	2.16	0.46
1:ID:375:GLN:NE2	1:ID:376:GLU:OE2	2.49	0.46
1:IH:178:THR:HG22	1:IH:180:VAL:H	1.81	0.46
1:IH:285:SER:HB2	7:0D:164:LEU:HD12	1.98	0.46
1:IH:322:SER:HB2	7:0D:167:VAL:HG13	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:II:115:VAL:O	2:II:119:LEU:HD23	2.16	0.46
1:IJ:173:PRO:HA	1:IJ:176:SER:HB3	1.98	0.46
2:IK:186:ASN:OD1	2:IK:408:TYR:OH	2.34	0.46
2:IM:274:PRO:HG2	2:IM:371:VAL:HG21	1.98	0.46
1:JA:189:VAL:O	1:JA:193:VAL:HG23	2.16	0.46
1:JC:276:ARG:HH21	15:0f:79:LEU:C	2.19	0.46
2:JD:21:TRP:CZ2	2:JD:65:CYS:HB3	2.50	0.46
2:JF:152:LEU:O	2:JF:156:ARG:HG2	2.15	0.46
1:JG:101:TRP:HE3	1:JG:403:MET:HE1	1.80	0.46
2:JJ:219:ILE:HB	2:JJ:222:PRO:HG3	1.97	0.46
2:JJ:367:ASP:OD1	2:JJ:367:ASP:N	2.49	0.46
1:JK:199:SER:O	1:JK:265:PHE:HA	2.16	0.46
1:JK:206:ALA:HB2	1:JK:302:ALA:HB2	1.98	0.46
2:JL:3:GLU:O	2:JL:133:GLN:N	2.46	0.46
2:JN:74:VAL:HA	2:JN:77:GLU:HG3	1.98	0.46
2:K:52:PHE:HZ	2:K:239:THR:HG21	1.81	0.46
2:K:155:GLU:OE2	2:K:197:HIS:NE2	2.49	0.46
2:K:323:VAL:HG23	2:K:355:ILE:HG23	1.98	0.46
1:KC:322:SER:HA	2:KD:223:SER:HB2	1.98	0.46
1:KG:249:ASP:O	1:KG:253:LEU:HG	2.16	0.46
2:KH:57:GLY:H	2:LH:285:GLN:CB	2.29	0.46
2:KH:188:VAL:O	2:KH:191:THR:HG22	2.16	0.46
1:KI:200:MET:HB2	1:KI:268:MET:HE3	1.98	0.46
1:KM:253:LEU:HD21	1:KM:316:LEU:HD11	1.98	0.46
2:L:11:GLN:HG3	2:L:15:GLN:HE22	1.80	0.46
1:LA:221:THR:HG23	1:LA:223:GLY:H	1.78	0.46
1:LC:91:ILE:HG22	1:LC:112:LEU:HD21	1.98	0.46
1:LE:211:CYS:HA	1:LE:215:LEU:HD12	1.98	0.46
1:LE:268:MET:HE1	1:LE:368:ILE:HG23	1.98	0.46
1:LK:207:LEU:HD11	1:LK:300:MET:HE3	1.98	0.46
1:LM:68:LEU:HD22	1:LM:97:ALA:HB2	1.97	0.46
1:LO:122:LYS:NZ	13:0a:75:THR:O	2.47	0.46
1:M:404:ASP:OD2	1:M:404:ASP:N	2.45	0.46
2:MC:158:SER:HB2	2:MC:163:LYS:HZ2	1.80	0.46
1:MH:65:LEU:HB3	1:MH:73:MET:HE1	1.98	0.46
2:MM:247:ALA:HB1	1:MN:222:PHE:CD2	2.50	0.46
2:MM:365:GLY:HA3	45:2z:156:PRO:HB2	1.97	0.46
1:MN:38:GLY:HA3	1:MN:43:GLN:NE2	2.30	0.46
1:NB:326:VAL:O	1:NB:330:MET:HG3	2.16	0.46
1:ND:185:THR:O	1:ND:189:VAL:HG23	2.16	0.46
1:NF:13:GLY:HA2	1:NF:16:ILE:HG22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NH:177:ASP:OD1	1:NH:177:ASP:N	2.49	0.46
1:NH:305:PRO:HB3	1:NH:310:TYR:CE1	2.50	0.46
1:NH:350:LYS:HA	1:NH:350:LYS:HE2	1.98	0.46
2:NI:137:VAL:HG21	2:NI:154:LEU:HD11	1.98	0.46
1:NJ:131:GLN:OE1	1:NJ:240:LEU:HD21	2.16	0.46
1:NJ:174:ARG:NH2	18:0p:177:GLU:HG2	2.31	0.46
2:NM:328:VAL:HG21	2:NM:355:ILE:HD11	1.97	0.46
1:O:8:GLN:NE2	1:O:21:TRP:HE1	2.13	0.46
1:O:143:THR:N	69:O:500:GDP:O3B	2.48	0.46
1:O:211:CYS:SG	1:O:217:LEU:HD11	2.56	0.46
1:O:322:SER:HA	2:OA:223:SER:HB2	1.97	0.46
1:OD:67:ASP:HB2	1:OD:73:MET:HE3	1.97	0.46
1:OD:152:ILE:HD12	1:OD:164:MET:HE2	1.98	0.46
1:OD:178:THR:HB	1:OD:181:GLU:HG3	1.97	0.46
1:OD:207:LEU:HB3	1:OD:225:LEU:HG	1.98	0.46
2:OE:195:LEU:HD12	2:OE:266:HIS:CE1	2.51	0.46
2:OE:205:ASP:OD1	2:OE:303:THR:HA	2.16	0.46
1:OF:378:PHE:HA	1:OF:381:VAL:HB	1.97	0.46
1:OH:18:SER:O	1:OH:22:GLU:HG2	2.15	0.46
1:OH:215:LEU:HB3	1:OH:217:LEU:HG	1.98	0.46
1:OH:287:ALA:HA	1:OH:329:GLN:NE2	2.19	0.46
1:OH:350:LYS:HD2	2:OI:179:THR:O	2.15	0.46
2:PA:352:LYS:HD2	1:PB:177:ASP:O	2.15	0.46
1:PD:21:TRP:CZ3	1:PD:50:TYR:HB3	2.51	0.46
1:PD:273:LEU:H	1:PD:292:GLN:HE22	1.62	0.46
1:PD:379:ARG:NH2	1:PD:423:GLN:HE21	2.14	0.46
1:PF:68:LEU:HD12	1:PF:97:ALA:HB2	1.97	0.46
1:PF:221:THR:OG1	1:PF:222:PHE:N	2.49	0.46
1:PH:259:PRO:HG2	1:PH:263:LEU:HD23	1.98	0.46
2:PI:236:SER:HA	2:PI:239:THR:HG22	1.98	0.46
2:PK:186:ASN:OD1	2:PK:408:TYR:OH	2.33	0.46
1:PL:268:MET:HE2	1:PL:368:ILE:HD11	1.97	0.46
2:Q:260:VAL:HG23	1:QA:397:TRP:HE1	1.80	0.46
2:QB:126:ALA:O	2:QB:129:CYS:HB2	2.15	0.46
1:QC:112:LEU:O	1:QC:116:VAL:HG23	2.16	0.46
2:QD:169:TYR:CE2	2:QD:235:VAL:HG22	2.50	0.46
2:QD:390:ARG:O	2:QD:394:LYS:HG3	2.16	0.46
1:QE:186:THR:HG22	1:QE:415:MET:SD	2.56	0.46
1:QE:296:ALA:HA	1:QE:299:MET:CE	2.46	0.46
2:QJ:121:ARG:HG3	2:QJ:121:ARG:HH11	1.81	0.46
1:QK:206:ALA:O	1:QK:210:ILE:HG13	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QK:313:ALA:HB1	1:QK:367:PHE:CE1	2.50	0.46
1:QK:392:LYS:O	1:QK:392:LYS:HG2	2.15	0.46
2:R:240:ALA:C	2:R:356:ASN:HD22	2.24	0.46
2:RB:9:ILE:HD13	2:RB:150:GLY:HA2	1.98	0.46
2:RD:298:PRO:HB3	2:RD:307:PRO:HD2	1.97	0.46
2:RD:372:GLN:CD	2:RD:372:GLN:H	2.24	0.46
2:RD:392:ASP:HB3	2:RD:425:LEU:HD23	1.98	0.46
1:RE:346:PRO:HD2	2:RF:398:MET:HG2	1.98	0.46
2:RF:100:ALA:N	71:RF:501:GTP:O2G	2.48	0.46
1:RG:385:PHE:HE2	1:RG:412:GLU:HB2	1.81	0.46
2:RH:248:LEU:HB2	2:RH:355:ILE:H	1.81	0.46
2:RH:317:LEU:HD23	2:RH:377:MET:HB2	1.98	0.46
1:RI:133:PHE:HB2	1:RI:164:MET:SD	2.56	0.46
1:S:345:ILE:HB	1:S:348:ASN:ND2	2.31	0.46
2:SA:265:ILE:HG23	2:SA:432:TYR:CZ	2.50	0.46
1:SD:132:GLY:HA2	1:SD:162:ARG:HB3	1.97	0.46
1:SD:401:GLU:OE1	1:SD:401:GLU:HA	2.16	0.46
1:SF:200:MET:HE2	1:SF:200:MET:HB3	1.67	0.46
1:SH:20:PHE:CD1	1:SH:233:MET:HE2	2.51	0.46
1:SJ:200:MET:SD	1:SJ:268:MET:SD	3.14	0.46
2:SK:153:LEU:O	2:SK:157:LEU:HD23	2.16	0.46
2:SK:369:ALA:HA	41:2c:258:GLN:NE2	2.31	0.46
2:SK:370:LYS:H	41:2c:258:GLN:NE2	2.07	0.46
1:T:68:LEU:HD22	1:T:97:ALA:HB2	1.97	0.46
1:T:326:VAL:HG11	1:T:353:ILE:HD11	1.98	0.46
1:T:341:PHE:HB3	1:T:348:ASN:OD1	2.15	0.46
2:TA:203:MET:SD	2:TA:267:PHE:HB3	2.56	0.46
2:TC:142:GLY:HA3	2:TC:183:GLU:HG3	1.97	0.46
2:TG:1:MET:N	2:TG:3:GLU:OE2	2.37	0.46
1:TH:228:LEU:HD11	1:TH:273:LEU:HD21	1.98	0.46
1:TJ:156:ARG:HH22	1:TJ:197:ASP:HB3	1.81	0.46
1:TJ:310:TYR:HB2	1:TJ:341:PHE:CD1	2.51	0.46
2:TK:279:GLU:HA	2:TK:282:TYR:HE1	1.81	0.46
1:TL:211:CYS:HB3	1:TL:220:PRO:CG	2.45	0.46
1:U:60:VAL:HG11	1:U:86:ARG:HE	1.81	0.46
2:UE:192:HIS:ND1	2:UE:424:ASP:OD1	2.44	0.46
1:UF:322:SER:OG	1:UF:325:GLU:OE1	2.32	0.46
1:UH:167:PHE:CE2	1:UH:233:MET:HG2	2.50	0.46
2:UI:267:PHE:HE2	2:UI:428:LEU:HD11	1.81	0.46
1:UL:326:VAL:O	1:UL:330:MET:HG2	2.16	0.46
1:V:318:ARG:HB2	1:V:358:PRO:HD3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VE:422:ARG:HA	2:VE:422:ARG:HD2	1.70	0.46
1:VH:289:LEU:HD11	1:VH:363:MET:HG3	1.97	0.46
2:VI:352:LYS:HA	1:VJ:177:ASP:C	2.41	0.46
2:VK:47:ASP:HB3	14:0d:311:LYS:HD2	1.98	0.46
2:WC:258:ASN:ND2	1:WD:179:VAL:HG22	2.31	0.46
2:WC:269:LEU:HD21	2:WC:305:CYS:HB3	1.96	0.46
1:WD:294:PHE:HE2	1:WD:367:PHE:CE1	2.33	0.46
2:WE:138:PHE:HE2	2:WE:235:VAL:HG21	1.81	0.46
1:WF:99:ASN:ND2	1:WF:178:THR:OG1	2.47	0.46
1:WH:4:ILE:HD11	1:WH:240:LEU:HD22	1.97	0.46
2:WK:313:MET:HE2	2:WK:382:THR:HG22	1.98	0.46
3:XB:97:LYS:HZ3	3:XB:146:THR:HG23	1.80	0.46
3:XF:113:LYS:NZ	3:XF:115:LYS:HB2	2.31	0.46
8:0I:164:GLN:O	8:0I:168:LEU:HD23	2.16	0.46
9:0M:305:ASN:HB3	9:0M:307:TYR:CE2	2.49	0.46
9:0M:591:HIS:CE1	9:0M:617:MET:HE3	2.50	0.46
9:0N:204:THR:HG21	9:0N:249:SER:HA	1.96	0.46
16:0k:280:TYR:HD2	16:0k:303:VAL:HG22	1.81	0.46
17:0n:67:MET:O	17:0n:71:VAL:HG13	2.16	0.46
23:1E:218:LEU:HG	25:1O:23:LEU:HD23	1.97	0.46
24:1I:664:GLN:NE2	24:1I:665:LEU:HG	2.31	0.46
24:1J:456:ILE:HD11	24:1J:498:LEU:HG	1.97	0.46
24:1K:566:PHE:CE2	24:1K:582:ILE:HG21	2.50	0.46
26:1Q:89:PHE:HB3	26:1Q:168:LEU:HD11	1.96	0.46
26:1Q:427:ARG:HG2	26:1Q:445:LEU:HD11	1.97	0.46
26:1Q:553:ALA:O	27:1S:542:PRO:HB2	2.15	0.46
27:1S:33:ARG:H	27:1S:36:HIS:HB2	1.80	0.46
27:1S:226:LEU:HD13	54:3Z:266:LEU:HD11	1.97	0.46
27:1S:836:GLU:O	27:1S:840:ARG:HG2	2.16	0.46
35:2O:21:ARG:HH21	51:X1:187:GLN:H	1.62	0.46
36:2Q:223:TRP:CZ3	36:2Q:232:GLY:HA2	2.51	0.46
37:2S:128:LYS:NZ	54:3Z:317:PRO:O	2.48	0.46
37:2S:146:PRO:HB3	54:3Z:311:THR:HG22	1.98	0.46
39:2X:295:HIS:HB2	39:2X:298:THR:HG23	1.98	0.46
41:2l:304:GLN:O	41:2l:308:ARG:HG3	2.16	0.46
44:2v:366:ASN:HB3	44:2v:369:TYR:O	2.16	0.46
44:2w:396:LEU:O	44:2w:400:LYS:HG2	2.16	0.46
46:3B:357:TRP:CH2	46:3B:370:VAL:HG12	2.51	0.46
47:3D:300:TYR:OH	47:3D:356:ILE:O	2.27	0.46
48:3M:431:GLN:HA	48:3M:434:GLU:HB2	1.97	0.46
56:3d:87:LEU:O	56:3d:91:ILE:HG12	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:3i:78:ALA:HA	57:3i:81:LYS:HG2	1.98	0.46
57:3i:83:GLU:HB3	57:3i:87:LYS:HZ3	1.81	0.46
1:AB:321:MET:HB3	1:AB:363:MET:HE2	1.98	0.46
2:AE:263:PRO:HD2	3:XB:116:PRO:HG3	1.97	0.46
2:AE:295:VAL:HG21	2:AE:375:VAL:HG13	1.96	0.46
1:AJ:253:LEU:O	1:AJ:257:LEU:CB	2.64	0.46
2:AM:167:LEU:HD21	2:AM:255:PHE:HZ	1.79	0.46
1:AN:46:ARG:O	1:AN:49:VAL:HG12	2.16	0.46
1:AN:272:PRO:HD3	1:AN:364:SER:HA	1.98	0.46
1:B:317:PHE:CD2	1:B:326:VAL:HG23	2.51	0.46
2:BA:79:ARG:HG2	2:BA:92:LEU:HD21	1.99	0.46
2:BC:151:ALA:O	2:BC:155:GLU:OE1	2.34	0.46
1:BD:313:ALA:HB1	1:BD:367:PHE:CE1	2.51	0.46
1:BD:346:PRO:HG3	2:BE:394:LYS:HG2	1.98	0.46
2:BE:346:TRP:CD1	1:BF:391:ARG:HG3	2.51	0.46
1:BH:311:LEU:HD13	1:BH:342:ILE:HG13	1.98	0.46
2:BK:262:TYR:OH	1:BL:391:ARG:O	2.25	0.46
1:BL:344:TRP:HA	2:BM:397:LEU:HG	1.98	0.46
2:C:301:MET:HG3	2:C:303:THR:H	1.81	0.46
1:CA:66:MET:SD	1:CA:116:VAL:HG21	2.56	0.46
2:CF:205:ASP:OD1	2:CF:303:THR:HA	2.16	0.46
2:D:270:THR:OG1	2:D:302:LEU:HB2	2.15	0.46
2:DB:80:THR:HB	27:1S:646:ARG:HD3	1.98	0.46
2:DB:89:PRO:HG2	2:EA:280:LYS:HG2	1.98	0.46
1:DC:326:VAL:HG21	1:DC:353:ILE:HD11	1.98	0.46
2:DD:139:HIS:CE1	2:DD:170:THR:HG22	2.51	0.46
1:DG:257:LEU:HB3	1:DG:266:PHE:CE1	2.51	0.46
2:DH:212:LEU:HD13	2:DH:300:GLY:HA2	1.98	0.46
1:DI:180:VAL:HG12	1:DI:180:VAL:O	2.16	0.46
2:DJ:396:ASP:OD2	2:DJ:397:LEU:N	2.49	0.46
1:DK:268:MET:HB3	1:DK:300:MET:HG2	1.98	0.46
2:DL:75:VAL:HG11	2:DL:94:SER:HB2	1.98	0.46
2:EA:139:HIS:O	2:EA:170:THR:HA	2.16	0.46
2:EG:271:SER:HB3	2:EG:301:MET:HA	1.97	0.46
2:EI:265:ILE:HG22	2:EI:380:ASN:ND2	2.29	0.46
1:EJ:11:GLN:HG3	1:EJ:72:THR:HG22	1.98	0.46
1:EJ:143:THR:O	1:EJ:147:MET:HB3	2.16	0.46
1:EL:31:ASP:OD2	1:EL:37:GLN:HG3	2.17	0.46
1:FD:323:THR:HG22	2:FE:223:SER:HA	1.97	0.46
1:FH:34:GLY:HA3	1:FH:58:ARG:HG3	1.98	0.46
1:FJ:344:TRP:CZ3	1:FJ:345:ILE:HB	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FL:198:GLU:HB2	1:FL:266:PHE:CE2	2.51	0.46
1:FL:217:LEU:CD2	1:FL:220:PRO:HB3	2.45	0.46
1:G:117:LEU:HD11	1:G:154:LYS:HD3	1.97	0.46
1:G:294:PHE:HA	1:G:299:MET:HE1	1.98	0.46
2:GA:115:VAL:O	2:GA:119:LEU:HD23	2.15	0.46
2:GA:319:TYR:CE2	2:GA:328:VAL:HG22	2.51	0.46
1:GD:68:LEU:HD12	1:GD:97:ALA:HA	1.98	0.46
2:GE:104:ALA:HB2	2:GE:413:MET:HE2	1.97	0.46
2:GE:178:SER:HB2	2:GE:183:GLU:OE1	2.16	0.46
2:GE:234:VAL:HG11	2:GE:302:LEU:HD11	1.98	0.46
1:GF:45:GLU:OE1	1:GF:46:ARG:HG2	2.15	0.46
2:GI:252:LEU:HA	2:GI:255:PHE:CE1	2.50	0.46
2:GK:21:TRP:CZ2	2:GK:65:CYS:HB3	2.51	0.46
2:HA:107:HIS:CD2	2:HA:152:LEU:HD12	2.51	0.46
2:HC:247:ALA:O	1:HD:11:GLN:NE2	2.47	0.46
1:HD:185:THR:O	1:HD:189:VAL:HG23	2.15	0.46
1:HD:217:LEU:HD22	1:HD:220:PRO:HB3	1.97	0.46
2:HE:326:LYS:HE3	1:HF:219:THR:HA	1.97	0.46
1:HF:156:ARG:NH1	1:HF:160:PRO:O	2.49	0.46
2:HG:60:LYS:HZ1	2:IG:283:HIS:CE1	2.34	0.46
2:HG:199:ASP:HB3	2:HG:256:GLN:NE2	2.31	0.46
2:HI:257:THR:HA	1:HJ:397:TRP:NE1	2.31	0.46
2:HI:332:ILE:HD12	2:HI:351:PHE:CD2	2.51	0.46
1:HJ:173:PRO:HD2	1:HJ:380:ARG:HH12	1.80	0.46
1:HJ:337:ASN:HB3	1:HJ:340:TYR:HD2	1.81	0.46
2:HK:251:ASP:N	2:HK:254:GLU:HB2	2.31	0.46
2:HK:261:PRO:HG2	2:HK:313:MET:SD	2.55	0.46
1:HL:113:ILE:HG12	1:HL:154:LYS:HD3	1.98	0.46
1:HL:286:VAL:HA	1:HL:289:LEU:HB3	1.98	0.46
2:HM:3:GLU:HA	2:HM:51:THR:HA	1.97	0.46
2:IA:413:MET:HE1	2:IA:418:PHE:CE1	2.51	0.46
1:ID:66:MET:SD	1:ID:116:VAL:HG11	2.56	0.46
2:IE:166:LYS:H	2:IE:199:ASP:HB2	1.80	0.46
2:IE:195:LEU:HD13	2:IE:267:PHE:HE1	1.81	0.46
1:IF:68:LEU:HB3	1:IF:95:SER:O	2.15	0.46
1:IF:78:ALA:HB1	11:0U:48:LYS:N	2.30	0.46
2:II:21:TRP:CZ2	2:II:65:CYS:HB3	2.51	0.46
2:II:234:VAL:HG13	2:II:376:CYS:SG	2.56	0.46
1:IL:189:VAL:HG11	1:IL:415:MET:CG	2.46	0.46
1:IL:403:MET:HG2	1:IL:408:PHE:CE1	2.51	0.46
1:JA:178:THR:HB	1:JA:181:GLU:HG3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JB:273:ALA:HB3	2:JB:295:VAL:HG23	1.97	0.46
1:JC:207:LEU:HB3	1:JC:225:LEU:CD1	2.37	0.46
2:JD:142:GLY:CA	2:JD:183:GLU:HG3	2.45	0.46
1:JE:183:TYR:CZ	1:JE:388:MET:HG3	2.51	0.46
2:JF:356:ASN:OD1	2:JF:357:TYR:N	2.49	0.46
1:JG:337:ASN:HB3	1:JG:340:TYR:HD2	1.81	0.46
2:JH:96:LYS:HA	2:JH:96:LYS:HD2	1.70	0.46
2:JJ:102:ASN:HB3	2:JJ:105:ARG:HB2	1.98	0.46
2:JL:91:GLN:CD	2:JL:125:LEU:HD21	2.41	0.46
2:JL:238:LEU:HD21	2:JL:378:ILE:HD11	1.97	0.46
2:JL:413:MET:HE2	2:JL:417:GLU:HG3	1.98	0.46
2:JN:205:ASP:HB2	2:JN:303:THR:HG23	1.98	0.46
2:JN:214:ARG:HH22	2:JN:215:ARG:HB3	1.81	0.46
2:K:271:SER:OG	2:K:295:VAL:HG13	2.15	0.46
1:KA:327:ASP:OD2	1:KA:328:GLU:N	2.49	0.46
1:KC:67:ASP:OD1	1:KC:68:LEU:N	2.49	0.46
1:KC:311:LEU:O	1:KC:348:ASN:ND2	2.37	0.46
2:KF:318:MET:O	2:KF:375:VAL:HA	2.16	0.46
2:KH:58:ALA:O	23:1E:183:ARG:HD3	2.16	0.46
1:KI:20:PHE:HA	1:KI:230:ALA:HB1	1.98	0.46
2:KJ:337:THR:HG23	18:0p:220:LEU:HD22	1.97	0.46
1:LE:187:LEU:O	1:LE:190:HIS:NE2	2.49	0.46
1:LE:276:ARG:NH1	23:1E:276:ASN:OD1	2.49	0.46
2:LF:388:PHE:HA	2:LF:391:ILE:HG22	1.97	0.46
2:LH:274:PRO:HG2	2:LH:371:VAL:HG21	1.98	0.46
1:LI:139:LEU:HD12	1:LI:170:ILE:HG13	1.98	0.46
1:LI:326:VAL:HG11	1:LI:353:ILE:HD11	1.99	0.46
1:LK:324:LYS:HE2	2:LL:214:ARG:CG	2.46	0.46
2:LL:60:LYS:HG2	44:2w:408:TRP:CH2	2.51	0.46
1:LM:167:PHE:CZ	1:LM:233:MET:HG2	2.51	0.46
2:MA:186:ASN:OD1	2:MA:408:TYR:OH	2.32	0.46
1:MD:152:ILE:HG22	1:MD:195:ASN:HB3	1.99	0.46
1:MD:213:ARG:HH12	32:2B:244:GLU:HB2	1.81	0.46
1:MD:290:THR:HA	1:MD:293:MET:HE2	1.98	0.46
1:MF:313:ALA:HB3	1:MF:349:ILE:HG12	1.98	0.46
1:MH:217:LEU:HD11	1:MH:220:PRO:HB3	1.98	0.46
1:MH:361:LEU:HG	1:MH:364:SER:HB2	1.98	0.46
1:MJ:260:PHE:HA	2:MK:406:HIS:CE1	2.51	0.46
1:ML:276:ARG:HD3	23:1B:276:ASN:OD1	2.16	0.46
1:MN:332:ASN:O	1:MN:336:LYS:HG2	2.16	0.46
1:N:138:SER:HA	1:N:169:VAL:HB	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NH:143:THR:OG1	69:NH:500:GDP:O2B	2.29	0.46
1:OB:91:ILE:HD11	1:OB:116:VAL:HG12	1.97	0.46
2:OC:90:GLU:HB2	2:OC:121:ARG:NH1	2.31	0.46
2:OC:274:PRO:HD3	2:OC:291:ILE:HD13	1.99	0.46
2:OC:291:ILE:HG22	2:OC:375:VAL:HG12	1.98	0.46
1:OD:323:THR:O	1:OD:326:VAL:HG12	2.16	0.46
1:OD:404:ASP:N	1:OD:404:ASP:OD1	2.49	0.46
1:OH:248:SER:HA	1:OH:252:LYS:HD2	1.97	0.46
2:OI:105:ARG:HA	2:OI:109:THR:HG22	1.97	0.46
2:OM:195:LEU:CD1	2:OM:264:ARG:HH21	2.26	0.46
2:OM:323:VAL:HG23	2:OM:355:ILE:HG23	1.98	0.46
1:P:186:THR:O	1:P:189:VAL:HG22	2.15	0.46
1:PD:350:LYS:HD3	2:PE:180:ALA:HA	1.99	0.46
1:PF:155:LEU:HB3	1:PF:164:MET:HE1	1.98	0.46
1:PF:186:THR:HG21	1:PF:385:PHE:CD1	2.51	0.46
1:PF:323:THR:HG21	2:PG:224:TYR:CZ	2.50	0.46
2:PG:79:ARG:HB3	22:1x:253:GLN:HB3	1.97	0.46
2:PG:244:PHE:HB2	2:PG:356:ASN:HD21	1.80	0.46
1:PH:395:LEU:HD21	58:3m:25:ARG:NH2	2.31	0.46
2:PI:70:LEU:HG	2:PI:149:LEU:HD22	1.98	0.46
1:PL:50:TYR:HD2	1:PL:241:ARG:HD3	1.81	0.46
2:PM:185:TYR:HE2	2:PM:404:PHE:HB2	1.81	0.46
1:QA:42:LEU:HD11	28:1b:41:THR:CG2	2.46	0.46
2:QB:132:LEU:HG	2:QB:164:LYS:HD3	1.98	0.46
1:QC:235:GLY:HA3	1:QC:366:THR:HG21	1.97	0.46
1:QG:386:THR:HG22	1:QG:412:GLU:OE2	2.15	0.46
2:QH:265:ILE:HG21	2:QH:313:MET:HE1	1.98	0.46
2:R:116:ASP:OD1	2:R:117:LEU:N	2.49	0.46
2:RD:275:VAL:HG23	2:RD:368:LEU:HD11	1.97	0.46
2:RF:3:GLU:CB	2:RF:51:THR:HA	2.46	0.46
2:RH:296:PHE:CZ	2:RH:377:MET:HE1	2.51	0.46
2:RL:70:LEU:HB2	2:RL:98:ASP:HA	1.98	0.46
2:RL:169:TYR:CE2	2:RL:235:VAL:HG22	2.51	0.46
1:SD:36:TYR:CZ	1:SD:38:GLY:HA3	2.51	0.46
1:SD:60:VAL:HG11	1:SD:86:ARG:HH21	1.81	0.46
1:SD:313:ALA:HB3	1:SD:349:ILE:HG12	1.98	0.46
1:SF:256:ASN:CG	1:SF:350:LYS:HD2	2.41	0.46
2:SI:278:ALA:CB	41:2c:316:GLU:OE2	2.46	0.46
2:SK:3:GLU:OE2	2:SK:131:GLY:N	2.49	0.46
2:SK:109:THR:OG1	2:SK:110:ILE:HD12	2.15	0.46
1:T:22:GLU:HA	1:T:81:TYR:CD2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TH:61:PRO:HD3	1:TH:84:LEU:HG	1.98	0.46
2:TK:387:VAL:HG12	2:TK:390:ARG:HH12	1.79	0.46
1:TL:56:GLY:O	8:0J:275:ARG:NH1	2.49	0.46
1:U:138:SER:HA	1:U:169:VAL:H	1.81	0.46
1:U:176:SER:OG	1:U:181:GLU:OE1	2.32	0.46
1:UB:323:THR:HA	1:UB:326:VAL:HG12	1.98	0.46
2:UC:422:ARG:HH11	2:UC:422:ARG:HA	1.80	0.46
1:UD:306:ARG:HG3	1:UD:340:TYR:HE2	1.81	0.46
1:UD:386:THR:HG23	1:UD:390:ARG:HH12	1.81	0.46
2:UE:36:MET:HG3	2:UE:61:HIS:NE2	2.31	0.46
2:UE:275:VAL:HG23	2:UE:368:LEU:HD11	1.98	0.46
1:UH:371:ASN:OD1	1:UH:372:THR:N	2.48	0.46
2:UI:265:ILE:HG23	2:UI:432:TYR:HE1	1.80	0.46
1:UL:2:ARG:N	1:UL:131:GLN:HB2	2.31	0.46
1:UL:151:LEU:HD22	1:UL:155:LEU:HD11	1.97	0.46
1:UL:205:GLU:HA	1:UL:208:TYR:HD2	1.81	0.46
1:V:350:LYS:HZ3	2:VA:181:VAL:HG13	1.80	0.46
2:VC:413:MET:HE2	2:VC:413:MET:HB3	1.87	0.46
1:VF:19:LYS:HD3	1:VF:22:GLU:OE2	2.16	0.46
1:VF:145:SER:HB2	1:VF:188:SER:OG	2.16	0.46
2:VG:60:LYS:HE3	2:VG:60:LYS:HB2	1.68	0.46
2:VI:164:LYS:O	2:VI:166:LYS:NZ	2.49	0.46
1:VJ:21:TRP:CZ3	1:VJ:61:PRO:HB3	2.51	0.46
1:VJ:159:TYR:HB3	1:VJ:162:ARG:HG3	1.97	0.46
1:VL:346:PRO:HG2	2:VM:394:LYS:HZ3	1.81	0.46
2:WC:126:ALA:HB1	2:WC:132:LEU:HD11	1.97	0.46
1:WD:253:LEU:HD11	1:WD:316:LEU:HD11	1.97	0.46
2:WE:213:THR:HG21	2:WE:222:PRO:HB3	1.97	0.46
1:WF:274:THR:HG22	1:WF:282:ARG:HH11	1.81	0.46
1:WH:154:LYS:HA	1:WH:157:GLU:HG2	1.98	0.46
2:WI:258:ASN:HD22	2:WI:352:LYS:HE2	1.81	0.46
1:WL:67:ASP:CG	1:WL:69:GLU:H	2.23	0.46
2:WM:155:GLU:HG2	2:WM:197:HIS:CD2	2.51	0.46
2:WM:169:TYR:CE2	2:WM:235:VAL:HG22	2.51	0.46
2:WM:425:LEU:HD12	2:WM:425:LEU:HA	1.83	0.46
3:XE:97:LYS:NZ	3:XE:101:ARG:HH22	2.14	0.46
4:XQ:163:PHE:CD2	4:XQ:199:LEU:HD22	2.51	0.46
9:0M:69:VAL:HG22	9:0M:76:VAL:HG22	1.98	0.46
9:0N:22:LEU:HD21	9:0N:66:CYS:HA	1.97	0.46
9:0N:348:ILE:HB	9:0N:362:ILE:HB	1.97	0.46
9:0N:372:LEU:HD23	9:0N:373:GLN:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:0k:201:TYR:CE2	16:0k:202:MET:HG2	2.51	0.46
17:0m:105:ALA:O	17:0m:109:GLU:HG2	2.16	0.46
17:0n:347:ARG:NH1	17:0n:351:GLN:HG2	2.30	0.46
18:0p:288:LEU:O	18:0p:292:GLU:HG2	2.16	0.46
19:0r:259:LEU:HB2	35:2N:292:TYR:OH	2.16	0.46
20:0t:144:MET:HE3	20:0t:155:PHE:CE2	2.50	0.46
21:0w:374:SER:HA	21:0w:377:ARG:CZ	2.45	0.46
23:1A:311:GLU:O	23:1A:315:GLU:HG2	2.16	0.46
23:1D:54:ASP:OD1	23:1D:56:LYS:HG3	2.16	0.46
24:1H:729:TYR:O	24:1H:733:MET:HG2	2.15	0.46
24:1I:297:ARG:HG3	24:1I:297:ARG:HH11	1.80	0.46
27:1S:763:TYR:CE1	27:1S:785:VAL:HG13	2.52	0.46
27:1T:636:VAL:O	27:1T:640:LEU:HD23	2.16	0.46
29:1l:203:GLU:HG2	29:1l:204:ASP:N	2.31	0.46
22:1x:64:ARG:HG3	22:1x:69:TYR:CE2	2.51	0.46
22:1x:265:ARG:HG3	22:1x:266:GLN:N	2.31	0.46
37:2S:219:MET:HA	37:2S:219:MET:HE3	1.96	0.46
38:2U:126:ARG:HH12	38:2U:135:ARG:HG2	1.81	0.46
40:2Z:321:HIS:ND1	40:2Z:322:MET:HG3	2.31	0.46
41:2h:391:GLU:HA	41:2h:394:ARG:CZ	2.46	0.46
41:2p:469:LYS:C	41:2p:469:LYS:HD3	2.41	0.46
44:2v:361:SER:HB2	49:3P:468:THR:HG22	1.97	0.46
47:3D:58:ASP:OD1	47:3D:59:GLY:N	2.49	0.46
47:3D:217:PRO:HB2	47:3D:368:VAL:HG22	1.98	0.46
49:3P:430:LEU:HD22	49:3P:505:TYR:HB3	1.98	0.46
49:3Q:27:ASP:OD1	49:3Q:28:GLN:N	2.49	0.46
52:3U:210:ALA:O	52:3U:214:SER:OG	2.30	0.46
1:AB:382:GLY:O	1:AB:386:THR:HG23	2.16	0.45
2:AC:192:HIS:CE1	2:AC:424:ASP:OD2	2.69	0.45
2:AE:346:TRP:O	1:AF:388:MET:HG2	2.15	0.45
1:AJ:189:VAL:HG11	1:AJ:415:MET:SD	2.56	0.45
2:AK:21:TRP:CZ2	2:AK:65:CYS:HB3	2.51	0.45
2:BC:58:ALA:HB3	2:BC:60:LYS:HG2	1.97	0.45
1:BF:323:THR:HG21	2:BG:224:TYR:CZ	2.51	0.45
1:BF:344:TRP:HZ3	2:BG:403:ALA:HB2	1.81	0.45
2:BG:217:LEU:HD21	2:BG:275:VAL:HG22	1.98	0.45
1:BL:86:ARG:NH1	1:CK:281:TYR:O	2.49	0.45
1:BL:324:LYS:HG2	2:BM:222:PRO:HD2	1.98	0.45
2:BM:116:ASP:OD2	2:BM:117:LEU:N	2.49	0.45
1:BN:283:GLY:O	1:BN:288:GLU:HG3	2.16	0.45
2:C:189:LEU:HD13	2:C:413:MET:HE1	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:226:ASN:HD21	16:0k:687:ARG:HH22	1.63	0.45
1:CC:257:LEU:HD11	1:CC:314:SER:HB2	1.97	0.45
2:CF:274:PRO:HG2	2:CF:371:VAL:HG21	1.99	0.45
2:CF:346:TRP:CD1	1:CG:391:ARG:HG3	2.51	0.45
2:CH:212:LEU:HD21	2:CH:275:VAL:HG21	1.99	0.45
1:CK:86:ARG:HG3	1:DK:281:TYR:HB3	1.98	0.45
1:CK:156:ARG:HH22	1:CK:197:ASP:CG	2.24	0.45
2:CL:142:GLY:O	2:CL:186:ASN:ND2	2.34	0.45
1:CM:67:ASP:O	1:CM:92:PHE:HA	2.16	0.45
2:D:51:THR:HG21	2:D:243:ARG:HG2	1.98	0.45
2:D:258:ASN:ND2	1:DA:178:THR:HG23	2.28	0.45
1:DA:135:LEU:HD23	1:DA:152:ILE:HD11	1.97	0.45
2:DB:313:MET:HG2	2:DB:346:TRP:CZ2	2.52	0.45
2:DD:381:SER:OG	2:DD:382:THR:N	2.48	0.45
1:DE:181:GLU:HG2	1:DE:182:PRO:HD3	1.98	0.45
2:DF:252:LEU:HA	2:DF:255:PHE:CE2	2.51	0.45
2:DF:291:ILE:O	2:DF:295:VAL:HG23	2.16	0.45
2:DL:276:VAL:HB	2:DL:280:LYS:HB2	1.98	0.45
1:E:99:ASN:ND2	1:E:178:THR:HG23	2.26	0.45
2:EA:269:LEU:HG	2:EA:384:ILE:HD11	1.97	0.45
2:EE:174:SER:HB2	2:EE:177:VAL:O	2.16	0.45
1:EH:344:TRP:CZ3	2:EI:403:ALA:HB2	2.50	0.45
2:EI:326:LYS:HE2	2:EI:326:LYS:HA	1.96	0.45
1:EL:20:PHE:HA	1:EL:230:ALA:HB1	1.97	0.45
1:F:275:SER:OG	24:1H:465:GLY:O	2.34	0.45
1:FB:51:PHE:HB3	1:FB:59:TYR:HB3	1.98	0.45
1:FB:263:LEU:HD11	1:FB:425:TYR:CE2	2.52	0.45
1:FD:199:SER:O	1:FD:265:PHE:HA	2.16	0.45
2:FI:313:MET:HG2	2:FI:344:VAL:HG21	1.98	0.45
1:FJ:83:GLN:O	1:GJ:281:TYR:OH	2.19	0.45
2:FK:209:ILE:HD12	2:FK:230:LEU:HD22	1.98	0.45
1:G:7:CYS:HA	1:G:64:VAL:O	2.15	0.45
2:GA:221:ARG:HG3	2:GA:221:ARG:HH11	1.79	0.45
1:GB:187:LEU:HD22	1:GB:408:PHE:HE1	1.81	0.45
2:GC:78:VAL:HG11	2:GC:92:LEU:HD11	1.98	0.45
1:GH:268:MET:CE	1:GH:368:ILE:HG22	2.43	0.45
1:GH:314:SER:HB3	1:GH:368:ILE:HD11	1.98	0.45
1:GJ:236:VAL:HA	1:GJ:316:LEU:HD12	1.98	0.45
2:GK:7:ILE:O	2:GK:137:VAL:HA	2.15	0.45
1:H:20:PHE:O	1:H:24:ILE:HG12	2.17	0.45
2:HA:174:SER:HB3	2:HA:177:VAL:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HA:308:ARG:HH22	64:5B:110:PHE:HB2	1.81	0.45
2:HA:344:VAL:HG11	2:HA:346:TRP:CE2	2.51	0.45
1:HB:165:MET:HE1	1:HB:200:MET:HE1	1.97	0.45
1:HB:182:PRO:HG3	1:HB:384:GLN:HE21	1.80	0.45
2:HC:335:ILE:HD11	2:HC:341:ILE:HG13	1.98	0.45
1:HD:163:ILE:HG12	1:HD:251:ARG:HH21	1.80	0.45
1:HD:190:HIS:O	1:HD:194:GLU:HG3	2.16	0.45
2:HE:64:ARG:NH1	2:HE:129:CYS:SG	2.89	0.45
2:HE:384:ILE:O	2:HE:387:VAL:HG12	2.15	0.45
1:HF:2:ARG:HH21	2:HG:96:LYS:HE2	1.81	0.45
1:HH:73:MET:HG3	1:HH:92:PHE:HB3	1.98	0.45
2:HI:260:VAL:HG12	1:HJ:396:HIS:HE1	1.81	0.45
1:HJ:61:PRO:HD3	1:HJ:84:LEU:HG	1.98	0.45
2:HK:237:SER:HA	2:HK:320:ARG:HD2	1.98	0.45
1:HL:86:ARG:HB2	1:HL:89:ASN:OD1	2.16	0.45
1:I:101:TRP:CD1	1:I:403:MET:HE1	2.52	0.45
2:IA:358:GLN:NE2	2:IA:359:PRO:O	2.49	0.45
1:IB:392:LYS:HE2	1:IB:395:LEU:HD13	1.98	0.45
2:IC:252:LEU:HA	2:IC:255:PHE:CE2	2.50	0.45
2:IE:188:VAL:HG21	2:IE:395:PHE:HB2	1.98	0.45
1:IF:202:ILE:HG23	1:IF:300:MET:HB3	1.98	0.45
1:IF:324:LYS:CE	2:IG:221:ARG:HA	2.44	0.45
2:JD:207:GLU:OE1	2:JD:304:LYS:HG3	2.15	0.45
2:JF:240:ALA:HA	2:JF:243:ARG:HE	1.80	0.45
2:JN:19:ALA:O	2:JN:22:GLU:HG3	2.16	0.45
2:K:21:TRP:CZ2	2:K:65:CYS:HB3	2.50	0.45
2:K:359:PRO:HD2	49:3P:544:ARG:CZ	2.46	0.45
1:KA:32:PRO:HG3	1:KA:81:TYR:CE1	2.52	0.45
1:KA:203:ASP:CG	1:KA:302:ALA:HB2	2.41	0.45
1:KA:295:ASP:OD2	1:KA:297:LYS:HG2	2.15	0.45
1:KA:324:LYS:HZ3	2:KB:222:PRO:HD2	1.81	0.45
2:KD:431:ASP:OD1	31:1q:12:TYR:OH	2.23	0.45
2:KF:93:VAL:HG11	2:KF:117:LEU:HD21	1.98	0.45
1:KG:113:ILE:HG12	1:KG:150:LEU:CD2	2.46	0.45
1:KG:309:ARG:NE	1:KG:426:GLN:O	2.49	0.45
2:KH:241:SER:OG	2:KH:250:VAL:N	2.40	0.45
2:KJ:228:ASN:OD1	71:KJ:501:GTP:N1	2.43	0.45
2:KL:93:VAL:HG11	2:KL:117:LEU:HD11	1.98	0.45
1:LA:152:ILE:HG13	1:LA:164:MET:SD	2.55	0.45
1:LA:330:MET:HE2	1:LA:349:ILE:HG21	1.98	0.45
1:LI:371:ASN:OD1	1:LI:372:THR:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LJ:271:SER:HB3	2:LJ:301:MET:HA	1.98	0.45
1:LK:40:SER:HG	45:2z:80:VAL:HG21	1.76	0.45
1:LK:295:ASP:OD2	1:LK:297:LYS:HG2	2.16	0.45
1:LM:174:ARG:NH1	1:LM:205:GLU:OE1	2.49	0.45
1:LM:187:LEU:O	1:LM:190:HIS:NE2	2.48	0.45
1:LM:206:ALA:HB2	1:LM:302:ALA:HB2	1.99	0.45
1:LM:424:GLN:O	1:LM:428:ALA:HB2	2.16	0.45
1:LO:280:GLN:NE2	23:1F:338:LEU:HD21	2.31	0.45
1:MB:160:PRO:HB2	4:XM:85:ARG:HG3	1.98	0.45
2:MG:81:GLY:O	2:MG:84:ARG:HG3	2.15	0.45
2:MG:214:ARG:NH1	2:MG:214:ARG:O	2.50	0.45
1:MJ:9:ALA:HB3	1:MJ:137:HIS:HB3	1.98	0.45
1:ML:35:THR:OG1	1:ML:37:GLN:NE2	2.39	0.45
1:ML:139:LEU:HA	1:ML:145:SER:HB3	1.97	0.45
1:ML:209:ASP:OD1	1:ML:213:ARG:HD2	2.15	0.45
2:NA:11:GLN:HE21	71:NA:501:GTP:PA	2.39	0.45
2:NG:258:ASN:HD22	2:NG:352:LYS:HD3	1.80	0.45
1:NH:350:LYS:HZ1	2:NI:180:ALA:HA	1.77	0.45
2:NK:50:ASN:O	2:NK:64:ARG:NH1	2.49	0.45
1:NL:244:GLY:HA2	1:NL:354:CYS:HA	1.98	0.45
1:O:257:LEU:HD23	1:O:266:PHE:CE2	2.51	0.45
2:OC:202:THR:C	2:OC:203:MET:HE2	2.41	0.45
2:OE:3:GLU:HG2	2:OE:132:LEU:HA	1.97	0.45
1:OF:97:ALA:HB2	1:OF:143:THR:HB	1.98	0.45
1:OF:347:ASN:ND2	2:OG:178:SER:O	2.47	0.45
1:OF:350:LYS:HD2	2:OG:179:THR:O	2.17	0.45
2:OI:195:LEU:HD12	2:OI:266:HIS:CE1	2.52	0.45
2:OK:3:GLU:HA	2:OK:51:THR:HA	1.97	0.45
1:OL:257:LEU:HA	1:OL:312:THR:HG21	1.97	0.45
1:OL:290:THR:HA	1:OL:293:MET:HB2	1.98	0.45
1:P:112:LEU:O	1:P:116:VAL:HG23	2.16	0.45
1:P:239:CYS:HA	1:P:354:CYS:SG	2.56	0.45
2:PA:328:VAL:HG21	2:PA:355:ILE:HD11	1.98	0.45
2:PC:324:VAL:HG23	2:PC:327:ASP:H	1.81	0.45
1:PF:28:HIS:NE2	1:PF:241:ARG:HD2	2.31	0.45
1:PF:60:VAL:HB	1:PF:86:ARG:HH21	1.81	0.45
1:PH:46:ARG:NH2	2:PI:76:ASP:OD2	2.47	0.45
2:PI:167:LEU:CD2	2:PI:252:LEU:HD12	2.46	0.45
2:PI:257:THR:HG1	1:PJ:397:TRP:CG	2.34	0.45
1:PL:198:GLU:HA	1:PL:264:HIS:HB2	1.97	0.45
1:PL:404:ASP:OD1	1:PL:405:GLU:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:430:LYS:HB3	57:3f:68:ARG:NH1	2.31	0.45
2:QB:248:LEU:HB2	2:QB:355:ILE:H	1.80	0.45
2:QB:387:VAL:O	2:QB:391:ILE:HG12	2.16	0.45
2:QD:178:SER:OG	2:QD:183:GLU:OE1	2.33	0.45
1:QE:378:PHE:HD1	1:QE:418:LEU:HD22	1.81	0.45
1:QG:170:ILE:HD11	1:QG:301:GLN:HE21	1.81	0.45
1:QG:323:THR:HG21	2:QH:224:TYR:CE2	2.51	0.45
2:QH:323:VAL:HG12	2:QH:373:ARG:HG2	1.99	0.45
2:QJ:232:GLY:HA2	2:QJ:235:VAL:HG12	1.98	0.45
2:QJ:297:GLU:HA	59:4b:50:LEU:HG	1.98	0.45
2:R:1:MET:HA	2:R:1:MET:HE2	1.98	0.45
2:R:367:ASP:OD1	2:R:368:LEU:N	2.49	0.45
1:RA:187:LEU:HD11	1:RA:408:PHE:CE1	2.52	0.45
2:RB:6:CYS:O	2:RB:65:CYS:HA	2.16	0.45
2:RD:332:ILE:O	2:RD:336:LYS:HG3	2.16	0.45
2:RF:175:PRO:HB3	2:RF:390:ARG:NH1	2.31	0.45
1:RK:19:LYS:HG2	1:RK:226:ASN:C	2.41	0.45
2:RL:159:VAL:HG21	57:3i:130:TYR:CD2	2.47	0.45
2:RL:395:PHE:HD2	2:RL:422:ARG:HD3	1.81	0.45
1:S:3:GLU:O	1:S:131:GLN:N	2.49	0.45
1:SB:65:LEU:HD21	1:SB:76:VAL:HG11	1.98	0.45
1:SB:359:LYS:HD3	28:1U:138:LEU:O	2.16	0.45
1:SB:391:ARG:HB2	56:3d:208:PHE:CE2	2.51	0.45
2:SC:104:ALA:HB2	2:SC:413:MET:HE3	1.98	0.45
1:SF:133:PHE:CD2	1:SF:155:LEU:HD23	2.51	0.45
2:SG:331:ALA:O	2:SG:335:ILE:HG12	2.15	0.45
2:SI:88:ASN:HB3	2:SI:91:GLN:HE21	1.81	0.45
2:SK:79:ARG:O	2:SK:84:ARG:HG2	2.16	0.45
1:T:161:ASP:CG	1:T:162:ARG:HH21	2.24	0.45
2:TA:3:GLU:O	2:TA:133:GLN:N	2.41	0.45
2:TA:70:LEU:HB3	2:TA:98:ASP:HA	1.98	0.45
1:TB:133:PHE:HB2	1:TB:164:MET:SD	2.56	0.45
2:TC:105:ARG:NH1	2:TC:411:GLU:OE1	2.45	0.45
2:TC:325:PRO:HB2	1:TD:208:TYR:OH	2.15	0.45
1:TD:21:TRP:CH2	1:TD:50:TYR:HB3	2.51	0.45
1:TH:22:GLU:HA	1:TH:81:TYR:CD2	2.51	0.45
1:TH:112:LEU:HD23	1:TH:116:VAL:HG23	1.98	0.45
2:TI:317:LEU:HD21	2:TI:377:MET:HE3	1.98	0.45
1:TJ:118:ASP:HA	1:TJ:121:ARG:HH11	1.81	0.45
1:TL:16:ILE:HD12	1:TL:229:VAL:HG21	1.96	0.45
1:TL:112:LEU:HD23	1:TL:116:VAL:HG23	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TL:397:TRP:O	1:TL:401:GLU:HG2	2.16	0.45
2:UC:316:CYS:HB3	2:UC:378:ILE:CG2	2.46	0.45
1:UH:267:MET:HB2	1:UH:301:GLN:HB2	1.98	0.45
2:UI:173:PRO:HB3	2:UI:183:GLU:HG2	1.98	0.45
2:UI:211:ASP:C	2:UI:215:ARG:HH11	2.24	0.45
1:V:260:PHE:HD2	1:V:263:LEU:HD12	1.81	0.45
2:VC:68:LEU:HD13	2:VC:93:VAL:HB	1.98	0.45
2:VC:331:ALA:O	2:VC:335:ILE:HG12	2.15	0.45
1:VD:19:LYS:HG3	1:VD:226:ASN:CB	2.46	0.45
1:VD:67:ASP:OD1	1:VD:143:THR:HG21	2.16	0.45
1:VD:97:ALA:HB2	1:VD:143:THR:HB	1.99	0.45
1:VD:347:ASN:O	2:VE:181:VAL:HG12	2.16	0.45
1:VF:201:CYS:O	1:VF:301:GLN:NE2	2.49	0.45
1:VF:239:CYS:HB3	1:VF:248:SER:H	1.81	0.45
2:VG:3:GLU:HA	2:VG:51:THR:HA	1.98	0.45
1:VH:313:ALA:HB3	1:VH:349:ILE:HG12	1.98	0.45
1:VJ:206:ALA:HB2	1:VJ:302:ALA:HB2	1.97	0.45
1:VL:213:ARG:HH12	1:VL:297:LYS:NZ	2.14	0.45
2:VM:103:TYR:CD2	2:VM:189:LEU:HB3	2.51	0.45
1:W:145:SER:HB2	1:W:188:SER:OG	2.15	0.45
1:WB:8:GLN:HE21	1:WB:65:LEU:HG	1.81	0.45
1:WB:20:PHE:HA	1:WB:230:ALA:HB1	1.98	0.45
2:WC:90:GLU:OE2	2:WC:91:GLN:N	2.49	0.45
2:WC:142:GLY:HA2	2:WC:183:GLU:HG3	1.97	0.45
2:WE:23:LEU:HD11	2:WE:233:GLN:OE1	2.16	0.45
2:WE:204:LEU:HD13	2:WE:231:ILE:HD13	1.98	0.45
1:WF:311:LEU:N	1:WF:370:ASN:O	2.49	0.45
2:WG:1:MET:N	2:WG:3:GLU:OE2	2.35	0.45
2:WG:269:LEU:HD22	2:WG:303:THR:HG21	1.96	0.45
2:WI:31:GLN:HE22	2:WI:37:PRO:HG3	1.80	0.45
2:WI:180:ALA:HB3	2:WI:183:GLU:HB2	1.97	0.45
2:WK:312:TYR:CD1	2:WK:381:SER:HB2	2.51	0.45
1:WL:232:VAL:HG22	1:WL:366:THR:HG23	1.98	0.45
2:WM:167:LEU:HD23	2:WM:200:VAL:HB	1.98	0.45
3:XF:38:THR:HA	3:XF:45:SER:HA	1.98	0.45
4:XQ:163:PHE:CE2	4:XQ:199:LEU:HD13	2.51	0.45
4:XR:227:VAL:O	4:XR:227:VAL:HG13	2.16	0.45
7:0C:268:PRO:HB2	7:0C:272:GLU:HB2	1.97	0.45
9:0L:431:ASP:HB2	9:0L:478:ASP:CG	2.41	0.45
9:0M:438:VAL:HG13	9:0M:472:ILE:HG21	1.98	0.45
10:0S:263:ILE:O	10:0S:267:GLU:OE1	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:0U:185:ILE:HG13	11:0U:186:MET:N	2.31	0.45
13:0Z:113:LYS:HB2	13:0Z:113:LYS:HE2	1.79	0.45
14:0d:281:LEU:HD22	14:0d:342:LEU:HB2	1.98	0.45
20:0u:217:HIS:HE1	20:0u:219:MET:HB2	1.81	0.45
24:1I:193:GLU:HG2	54:3a:99:ALA:HB2	1.96	0.45
24:1I:487:ALA:HB1	24:1I:523:PHE:CE1	2.50	0.45
24:1J:642:ALA:O	24:1J:646:GLU:HG3	2.16	0.45
24:1K:351:LEU:O	24:1K:354:ARG:HG2	2.15	0.45
25:1O:728:LEU:HD23	25:1O:732:LEU:HD12	1.97	0.45
27:1S:121:PHE:HE2	27:1S:197:LEU:HB3	1.81	0.45
27:1T:741:ARG:NH1	27:1T:795:LEU:O	2.48	0.45
28:1a:252:ILE:O	28:1b:19:VAL:HG23	2.16	0.45
28:1b:18:CYS:SG	28:1b:30:CYS:SG	3.14	0.45
31:1q:153:PHE:O	31:1q:157:VAL:HG23	2.15	0.45
31:1r:214:VAL:HG12	31:1r:258:LEU:HB3	1.97	0.45
33:2F:253:MET:HG2	33:2F:262:LYS:HE3	1.98	0.45
33:2G:190:PRO:HG2	33:2G:260:LEU:HD13	1.96	0.45
33:2I:17:TYR:HA	33:2I:84:ARG:O	2.16	0.45
37:2S:40:LEU:HD12	37:2S:236:VAL:HG12	1.97	0.45
41:2c:352:ARG:O	41:2c:356:VAL:HG23	2.16	0.45
41:2e:410:GLN:O	41:2e:413:GLN:HG3	2.16	0.45
41:2h:363:GLN:HB3	41:2h:367:PHE:CE2	2.51	0.45
41:2h:390:GLU:OE1	41:2h:394:ARG:NH1	2.49	0.45
41:2h:391:GLU:O	41:2h:395:ARG:HG2	2.16	0.45
44:2w:22:LEU:HB2	44:2w:142:LEU:HD13	1.98	0.45
47:3D:292:ARG:HD3	47:3D:378:PHE:CD2	2.50	0.45
49:3Q:129:CYS:SG	49:3Q:152:ARG:NE	2.89	0.45
52:3U:288:SER:HA	52:3U:291:ARG:HG2	1.98	0.45
28:4W:172:ASP:N	28:4W:172:ASP:OD1	2.49	0.45
59:4a:241:TRP:CD1	59:4a:243:PRO:HD3	2.51	0.45
64:5C:150:ARG:NH2	64:5C:154:GLU:OE1	2.49	0.45
67:5P:28:LEU:HD12	67:5P:105:VAL:CG1	2.47	0.45
67:5P:70:MET:HE3	67:5P:76:SER:HB3	1.99	0.45
1:A:389:PHE:CZ	1:A:405:GLU:HG3	2.52	0.45
2:AA:346:TRP:CZ2	2:AA:435:VAL:HG22	2.51	0.45
1:AB:325:GLU:HA	1:AB:328:GLU:HB3	1.98	0.45
2:AE:27:GLU:HA	2:AE:361:THR:HG21	1.98	0.45
1:AF:151:LEU:O	1:AF:155:LEU:HD13	2.16	0.45
1:AF:239:CYS:HB3	1:AF:248:SER:H	1.81	0.45
2:AG:6:CYS:O	2:AG:65:CYS:HA	2.16	0.45
1:AJ:21:TRP:CZ3	1:AJ:50:TYR:HB3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AK:152:LEU:O	2:AK:156:ARG:HG2	2.16	0.45
1:AL:20:PHE:HA	1:AL:230:ALA:HB1	1.98	0.45
2:AM:60:LYS:HE2	2:AM:60:LYS:HB3	1.83	0.45
2:BA:188:VAL:HG11	2:BA:395:PHE:CD1	2.52	0.45
1:BB:318:ARG:HE	1:BB:358:PRO:HD3	1.80	0.45
2:BE:223:SER:OG	2:BE:224:TYR:N	2.49	0.45
1:BF:73:MET:HG3	1:BF:92:PHE:CD1	2.50	0.45
1:BF:190:HIS:HB2	1:BF:414:ASN:ND2	2.29	0.45
2:BG:21:TRP:CZ2	2:BG:65:CYS:HB3	2.51	0.45
2:BG:228:ASN:OD1	71:BG:501:GTP:N1	2.38	0.45
2:BI:259:LEU:HD21	2:BI:268:VAL:HG11	1.99	0.45
1:BJ:11:GLN:HA	1:BJ:72:THR:HG21	1.99	0.45
1:BJ:330:MET:O	1:BJ:334:GLN:HG2	2.17	0.45
2:BK:388:PHE:HA	2:BK:391:ILE:HG22	1.98	0.45
1:CA:263:LEU:HD22	1:CA:422:TYR:CD1	2.51	0.45
1:CA:268:MET:SD	1:CA:368:ILE:HD13	2.56	0.45
1:CK:18:SER:O	1:CK:22:GLU:HG3	2.16	0.45
1:CK:51:PHE:HB3	1:CK:59:TYR:HB3	1.98	0.45
1:CK:232:VAL:HG11	1:CK:300:MET:SD	2.55	0.45
1:CM:309:ARG:NE	1:CM:341:PHE:O	2.32	0.45
2:DB:238:LEU:HD23	2:DB:238:LEU:HA	1.76	0.45
2:DB:251:ASP:H	2:DB:254:GLU:CB	2.25	0.45
2:DB:392:ASP:OD1	2:DB:393:HIS:N	2.49	0.45
2:DD:124:LYS:NZ	2:EC:284:GLU:OE2	2.49	0.45
2:DD:188:VAL:HG11	2:DD:395:PHE:CD1	2.51	0.45
2:DH:3:GLU:HA	2:DH:51:THR:HA	1.98	0.45
2:DL:22:GLU:OE1	2:DL:83:TYR:OH	2.23	0.45
2:DL:31:GLN:OE1	2:DL:31:GLN:N	2.49	0.45
2:DL:265:ILE:HG21	2:DL:313:MET:HE1	1.97	0.45
1:E:229:VAL:HG12	1:E:233:MET:HE2	1.97	0.45
1:E:347:ASN:HD21	2:EA:178:SER:C	2.22	0.45
2:EA:296:PHE:CD2	2:EA:335:ILE:HD13	2.52	0.45
2:EA:395:PHE:HE2	2:EA:422:ARG:HB2	1.80	0.45
2:EE:267:PHE:HB2	2:EE:432:TYR:OH	2.16	0.45
1:EF:60:VAL:HG21	1:EF:86:ARG:HH21	1.81	0.45
1:EF:245:GLN:C	2:EG:11:GLN:HE22	2.23	0.45
2:EI:231:ILE:O	2:EI:235:VAL:HG13	2.15	0.45
1:F:257:LEU:HD21	1:F:314:SER:HB3	1.98	0.45
1:F:267:MET:HG3	1:F:299:MET:CE	2.42	0.45
2:FA:3:GLU:OE2	2:FA:130:THR:N	2.47	0.45
2:FA:331:ALA:HA	2:FA:334:THR:HG22	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FB:54:SER:OG	1:FB:55:SER:N	2.50	0.45
2:FC:259:LEU:HD21	2:FC:268:VAL:HG11	1.98	0.45
2:FC:345:ASP:OD1	2:FC:346:TRP:N	2.49	0.45
2:FG:326:LYS:HZ1	1:FH:220:PRO:HG2	1.80	0.45
2:FG:335:ILE:HG23	2:FG:341:ILE:HD11	1.98	0.45
1:FH:253:LEU:HD21	1:FH:316:LEU:HD21	1.99	0.45
1:FH:289:LEU:HD12	1:FH:365:VAL:HG12	1.97	0.45
1:FJ:167:PHE:CE2	1:FJ:233:MET:HG2	2.51	0.45
1:FJ:256:ASN:O	1:FJ:312:THR:HG21	2.16	0.45
1:GD:362:LYS:HE3	1:GD:363:MET:HE3	1.98	0.45
2:GE:170:THR:HG21	2:GE:194:LEU:HD21	1.97	0.45
1:GF:180:VAL:O	1:GF:180:VAL:HG12	2.16	0.45
1:GH:156:ARG:HA	1:GH:156:ARG:HD3	1.76	0.45
1:GJ:403:MET:HG2	1:GJ:404:ASP:H	1.80	0.45
1:GL:8:GLN:HG3	1:GL:14:ASN:HA	1.99	0.45
1:GL:226:ASN:OD1	69:GL:500:GDP:N1	2.45	0.45
2:HA:132:LEU:HD22	2:HA:164:LYS:HZ3	1.81	0.45
2:HA:209:ILE:HD11	2:HA:302:LEU:HB3	1.98	0.45
2:HA:270:THR:HA	2:HA:377:MET:O	2.16	0.45
2:HA:279:GLU:OE2	17:0m:100:ARG:NH2	2.49	0.45
2:HC:219:ILE:HG22	2:HC:221:ARG:H	1.81	0.45
1:HD:113:ILE:HD13	1:HD:147:MET:HE1	1.98	0.45
1:HF:60:VAL:HG21	1:IF:281:TYR:HB3	1.98	0.45
1:HJ:48:ASN:O	1:HJ:62:ARG:NH1	2.28	0.45
1:HJ:344:TRP:H	1:HJ:344:TRP:CD1	2.34	0.45
2:HK:185:TYR:HD2	2:HK:418:PHE:CE1	2.35	0.45
1:HL:226:ASN:CG	69:HL:500:GDP:HN1	2.23	0.45
2:HM:224:TYR:HA	2:HM:227:VAL:CG1	2.47	0.45
1:ID:232:VAL:O	1:ID:236:VAL:HG23	2.16	0.45
1:ID:322:SER:OG	2:IE:222:PRO:O	2.34	0.45
2:IG:21:TRP:CZ2	2:IG:65:CYS:HB3	2.51	0.45
2:II:177:VAL:HG12	2:II:207:GLU:OE1	2.16	0.45
1:IJ:170:ILE:O	1:IJ:170:ILE:HG13	2.15	0.45
1:IJ:226:ASN:OD1	69:IJ:500:GDP:N1	2.44	0.45
2:IK:231:ILE:O	2:IK:235:VAL:HG13	2.16	0.45
1:IL:255:VAL:HG11	2:IM:100:ALA:O	2.17	0.45
1:JE:252:LYS:HA	1:JE:255:VAL:HG12	1.98	0.45
1:JE:267:MET:HB2	1:JE:301:GLN:HB3	1.98	0.45
2:JJ:195:LEU:HA	2:JJ:266:HIS:HE1	1.82	0.45
1:JK:190:HIS:HA	1:JK:193:VAL:HG12	1.97	0.45
2:JL:345:ASP:N	2:JL:345:ASP:OD1	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JM:152:ILE:HD12	1:JM:164:MET:SD	2.56	0.45
2:JN:122:ILE:HD13	2:JN:125:LEU:HD12	1.98	0.45
2:K:169:TYR:HE2	2:K:235:VAL:HG22	1.81	0.45
2:KB:120:ASP:OD1	2:KB:124:LYS:HE2	2.17	0.45
1:KC:60:VAL:HG11	1:KC:86:ARG:HG3	1.98	0.45
2:KF:47:ASP:N	2:KF:47:ASP:OD1	2.49	0.45
2:KH:138:PHE:HE2	2:KH:235:VAL:HG21	1.80	0.45
2:KJ:9:ILE:HD11	2:KJ:153:LEU:HD23	1.98	0.45
2:KN:160:ASP:O	35:2O:172:PRO:HA	2.16	0.45
2:L:116:ASP:HB2	14:0c:73:GLY:HA3	1.97	0.45
1:LC:3:GLU:O	1:LC:131:GLN:N	2.46	0.45
1:LG:174:ARG:NH2	1:LG:205:GLU:OE1	2.41	0.45
1:LK:170:ILE:N	1:LK:202:ILE:O	2.49	0.45
1:LK:311:LEU:HB2	1:LK:370:ASN:O	2.16	0.45
2:LL:254:GLU:OE2	1:LM:99:ASN:ND2	2.49	0.45
1:LM:66:MET:SD	1:LM:151:LEU:HD22	2.56	0.45
1:LO:322:SER:OG	1:LO:325:GLU:OE1	2.23	0.45
2:MA:251:ASP:H	2:MA:254:GLU:HB3	1.81	0.45
1:MB:20:PHE:HA	1:MB:230:ALA:HB1	1.97	0.45
2:MC:360:PRO:HG2	2:MC:374:ALA:HB3	1.98	0.45
1:MD:267:MET:HE3	1:MD:301:GLN:HE21	1.81	0.45
2:MK:34:GLY:HA2	2:MK:86:LEU:HD13	1.99	0.45
1:ML:311:LEU:HB2	1:ML:370:ASN:O	2.16	0.45
1:MN:386:THR:HB	1:MN:412:GLU:OE2	2.17	0.45
1:N:261:PRO:HG3	2:NA:406:HIS:CG	2.50	0.45
2:NA:212:LEU:HD21	2:NA:275:VAL:HG11	1.98	0.45
2:NA:340:THR:OG1	2:NA:341:ILE:HD12	2.17	0.45
1:NB:210:ILE:HD12	1:NB:300:MET:HB3	1.96	0.45
1:NB:344:TRP:HZ3	2:NC:403:ALA:HB2	1.81	0.45
2:NE:21:TRP:CZ2	2:NE:65:CYS:HB3	2.52	0.45
2:NE:212:LEU:HD21	2:NE:275:VAL:HG11	1.99	0.45
1:NF:113:ILE:HA	1:NF:116:VAL:HB	1.98	0.45
1:NF:198:GLU:HA	1:NF:264:HIS:HB2	1.97	0.45
2:NG:188:VAL:HG23	2:NG:425:LEU:CD1	2.47	0.45
2:NI:1:MET:N	2:NI:3:GLU:OE2	2.49	0.45
2:NI:357:TYR:HB3	18:0p:203:PRO:HG3	1.99	0.45
1:NJ:173:PRO:HG3	1:NJ:384:GLN:NE2	2.30	0.45
2:NK:247:ALA:HB3	2:NK:355:ILE:HB	1.97	0.45
1:NL:66:MET:HE1	1:NL:151:LEU:HD22	1.99	0.45
1:NL:255:VAL:HG11	2:NM:100:ALA:O	2.16	0.45
1:O:184:ASN:OD1	1:O:185:THR:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OH:268:MET:HE1	1:OH:368:ILE:HG23	1.99	0.45
2:OI:261:PRO:HA	1:OJ:394:PHE:CD1	2.51	0.45
2:OM:259:LEU:HD13	2:OM:314:SER:OG	2.16	0.45
2:OM:280:LYS:O	2:OM:284:GLU:CB	2.64	0.45
1:P:4:ILE:HD12	1:P:250:LEU:HD21	1.98	0.45
1:P:258:VAL:HG12	1:P:263:LEU:O	2.16	0.45
2:PG:174:SER:HB3	2:PG:177:VAL:O	2.15	0.45
2:PG:328:VAL:O	2:PG:332:ILE:HG12	2.16	0.45
2:PI:109:THR:HG22	2:PI:110:ILE:HG23	1.98	0.45
2:PK:3:GLU:HA	2:PK:51:THR:HA	1.97	0.45
2:PK:70:LEU:CD1	2:PK:149:LEU:HD22	2.46	0.45
2:PM:115:VAL:HA	2:PM:118:ALA:HB3	1.97	0.45
2:Q:150:GLY:O	2:Q:154:LEU:HG	2.15	0.45
1:QA:139:LEU:CD1	1:QA:168:SER:HB2	2.47	0.45
1:QA:173:PRO:HD2	1:QA:174:ARG:NH1	2.31	0.45
1:QA:228:LEU:HD22	1:QA:273:LEU:HD21	1.99	0.45
2:QB:173:PRO:HG3	2:QB:183:GLU:HG2	1.97	0.45
2:QB:211:ASP:OD1	59:4a:156:ILE:HG22	2.16	0.45
2:QD:3:GLU:HA	2:QD:51:THR:HA	1.98	0.45
1:QI:40:SER:HB3	28:1b:181:PHE:HD2	1.80	0.45
1:QI:334:GLN:NE2	1:QI:348:ASN:H	2.14	0.45
1:QK:105:HIS:HD2	1:QK:106:TYR:CE1	2.34	0.45
2:R:97:GLU:OE2	2:R:105:ARG:NH2	2.49	0.45
2:R:319:TYR:CG	2:R:323:VAL:HG11	2.50	0.45
1:RA:326:VAL:HG11	1:RA:353:ILE:HD11	1.98	0.45
2:RB:91:GLN:NE2	2:RB:121:ARG:HG3	2.31	0.45
2:RB:291:ILE:O	2:RB:295:VAL:HG23	2.16	0.45
2:RD:32:PRO:HB2	41:2b:144:MET:HE1	1.97	0.45
2:RD:88:ASN:HD22	2:RD:91:GLN:NE2	2.14	0.45
1:RE:133:PHE:CD1	1:RE:164:MET:HE1	2.51	0.45
2:RJ:155:GLU:O	2:RJ:159:VAL:HG23	2.15	0.45
1:S:166:THR:OG1	1:S:199:SER:HA	2.16	0.45
1:S:385:PHE:CE2	1:S:412:GLU:HB3	2.51	0.45
2:SA:91:GLN:OE1	2:SA:125:LEU:HD21	2.16	0.45
2:SA:439:SER:HB3	1:SB:391:ARG:HH21	1.82	0.45
1:SB:350:LYS:HZ2	2:SC:180:ALA:C	2.23	0.45
2:SC:324:VAL:O	2:SC:328:VAL:HG23	2.16	0.45
1:SD:268:MET:HB2	1:SD:300:MET:HB2	1.99	0.45
1:SF:36:TYR:OH	1:SF:40:SER:O	2.34	0.45
2:SI:265:ILE:HG12	2:SI:432:TYR:HE1	1.81	0.45
2:SI:270:THR:HG23	2:SI:302:LEU:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:TA:92:LEU:O	2:TA:92:LEU:HD23	2.16	0.45
1:TB:385:PHE:HZ	1:TB:408:PHE:HD2	1.64	0.45
1:TD:65:LEU:HB3	1:TD:73:MET:HE1	1.97	0.45
1:TF:256:ASN:HD22	2:TG:181:VAL:HG22	1.81	0.45
1:TH:293:MET:HE1	1:TH:317:PHE:CZ	2.51	0.45
1:TH:309:ARG:HH12	1:TH:342:ILE:HG22	1.80	0.45
2:TK:331:ALA:O	2:TK:335:ILE:HG12	2.16	0.45
1:TL:133:PHE:O	1:TL:164:MET:HA	2.17	0.45
1:UD:172:SER:OG	1:UD:380:ARG:NH2	2.49	0.45
2:UE:393:HIS:O	2:UE:397:LEU:HD13	2.16	0.45
1:UF:65:LEU:HB3	1:UF:73:MET:SD	2.56	0.45
2:UG:331:ALA:O	2:UG:335:ILE:HG12	2.16	0.45
2:UI:259:LEU:HD21	2:UI:378:ILE:HG22	1.96	0.45
1:UJ:346:PRO:HD2	2:UK:398:MET:SD	2.57	0.45
1:UL:252:LYS:HD2	1:UL:252:LYS:HA	1.81	0.45
1:UL:385:PHE:CE2	1:UL:412:GLU:HB2	2.51	0.45
2:VC:116:ASP:OD1	2:VC:116:ASP:N	2.49	0.45
2:VC:320:ARG:O	2:VC:373:ARG:HA	2.16	0.45
1:VH:273:LEU:O	1:VH:292:GLN:NE2	2.50	0.45
1:VJ:304:ASP:HB3	1:VJ:307:HIS:CD2	2.52	0.45
1:VL:22:GLU:HG2	1:VL:81:TYR:HB2	1.98	0.45
1:VL:295:ASP:OD1	1:VL:296:ALA:N	2.49	0.45
1:W:8:GLN:HB3	1:W:14:ASN:HA	1.97	0.45
2:WC:137:VAL:HG11	2:WC:154:LEU:HD21	1.98	0.45
1:WD:104:GLY:O	1:WD:147:MET:HB3	2.15	0.45
1:WD:177:ASP:O	1:WD:178:THR:OG1	2.33	0.45
2:WE:75:VAL:O	2:WE:79:ARG:HG3	2.15	0.45
2:WE:293:ASN:O	2:WE:297:GLU:HG2	2.15	0.45
1:WF:384:GLN:O	1:WF:388:MET:HG3	2.15	0.45
1:WH:168:SER:O	1:WH:201:CYS:HA	2.16	0.45
1:WJ:69:GLU:CD	1:WJ:71:GLY:H	2.24	0.45
1:WJ:350:LYS:HA	2:WK:179:THR:O	2.16	0.45
1:WJ:378:PHE:O	1:WJ:415:MET:HE2	2.16	0.45
2:WM:316:CYS:HB3	2:WM:378:ILE:HB	1.97	0.45
3:XD:134:PHE:HE1	3:XD:139:PHE:HD2	1.64	0.45
4:XM:19:LEU:HD21	4:XM:170:GLU:HG2	1.98	0.45
4:XO:207:LEU:HB3	4:XO:246:VAL:HG21	1.98	0.45
5:XP:124:LYS:HE3	5:XP:221:PRO:HD2	1.97	0.45
4:XR:202:PRO:HA	4:XR:205:THR:HG22	1.98	0.45
6:0A:70:LEU:HD22	6:0A:94:PHE:HE1	1.80	0.45
6:0:98:PRO:HG3	6:0:112:MET:HE3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:0D:53:PHE:HB3	7:0D:55:HIS:CD2	2.50	0.45
8:0G:135:ILE:HG22	8:0G:139:LYS:HZ1	1.80	0.45
12:0W:80:PHE:CD2	12:0W:86:ARG:HG2	2.51	0.45
12:0W:309:MET:SD	43:2t:166:GLN:NE2	2.82	0.45
13:0Z:210:ILE:HB	13:0Z:272:VAL:HG13	1.98	0.45
14:0d:280:LEU:HD12	14:0d:343:PHE:CE1	2.52	0.45
15:0f:58:THR:O	15:0f:62:ILE:HG12	2.16	0.45
16:0k:933:ALA:HA	16:0k:936:GLN:NE2	2.31	0.45
17:0n:13:ARG:O	17:0n:16:ARG:HG3	2.17	0.45
17:0n:74:TYR:CD2	17:0o:400:ILE:HG21	2.51	0.45
20:0t:131:GLU:OE1	20:0t:206:PRO:HG3	2.17	0.45
20:0u:88:LYS:HG2	20:0u:95:GLN:HB2	1.98	0.45
23:1B:224:LYS:HG2	45:2z:181:LEU:HD13	1.97	0.45
23:1E:248:ARG:HH11	23:1E:248:ARG:HG2	1.81	0.45
24:1I:659:ALA:HB2	24:1I:715:LEU:HD13	1.97	0.45
24:1I:663:LEU:HD13	24:1I:746:LEU:HD23	1.98	0.45
26:1Q:275:ILE:HB	26:1Q:299:ILE:HD12	1.98	0.45
27:1T:759:MET:SD	27:1T:760:PRO:HD2	2.57	0.45
29:1j:32:PRO:HG3	49:3P:409:GLN:HG2	1.98	0.45
29:1k:202:THR:HG22	29:1k:204:ASP:H	1.82	0.45
22:1w:158:ARG:HH12	48:3F:82:ARG:NH2	2.14	0.45
22:1w:242:ASP:OD2	22:1w:262:ILE:HD12	2.16	0.45
22:1y:54:LEU:HD12	22:1y:55:PRO:HD2	1.99	0.45
22:1y:198:GLU:O	22:1y:202:GLU:HG2	2.16	0.45
33:2F:17:TYR:HA	33:2F:84:ARG:O	2.16	0.45
33:2G:99:ALA:HB3	33:2G:102:VAL:HG12	1.99	0.45
35:2O:29:LEU:HD12	39:2X:152:ARG:HH11	1.81	0.45
35:2O:100:ASP:OD1	35:2O:101:THR:N	2.49	0.45
37:2S:35:MET:HE3	37:2S:35:MET:HB3	1.64	0.45
42:2r:222:GLN:NE2	42:2r:226:GLN:OE1	2.49	0.45
47:3D:383:ARG:O	47:3D:397:ASN:ND2	2.50	0.45
47:3D:386:TRP:O	47:3D:421:LEU:HD21	2.15	0.45
49:3P:319:LEU:HG	49:3P:327:PHE:CZ	2.50	0.45
49:3Q:153:ILE:HD13	49:3Q:194:PHE:HD2	1.81	0.45
49:3Q:323:GLY:O	49:3Q:324:ARG:HG2	2.16	0.45
53:3W:266:SER:OG	53:3W:267:ILE:HD12	2.16	0.45
60:3r:35:ASP:HA	60:3r:37:ARG:HH12	1.81	0.45
64:5B:232:GLU:O	64:5B:236:GLN:N	2.46	0.45
64:5C:160:LEU:HD21	65:5H:159:ILE:HG12	1.98	0.45
66:5L:161:PRO:HD3	66:5L:232:THR:O	2.16	0.45
2:AA:105:ARG:NH2	2:AA:110:ILE:HD13	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:167:LEU:HD21	2:AA:255:PHE:CZ	2.52	0.45
1:AB:151:LEU:O	1:AB:155:LEU:HD13	2.17	0.45
1:AB:214:THR:HG21	1:AB:273:LEU:HD12	1.97	0.45
2:AC:44:VAL:HB	27:1S:118:VAL:HG11	1.96	0.45
2:AC:257:THR:HG21	1:AD:98:GLY:O	2.16	0.45
2:AC:323:VAL:HG23	2:AC:355:ILE:HG23	1.98	0.45
2:AE:329:ASN:HD22	1:AF:175:VAL:HG13	1.81	0.45
2:AG:108:TYR:O	2:AG:112:LYS:HE2	2.16	0.45
2:AG:215:ARG:NH2	2:AG:300:GLY:HA2	2.32	0.45
1:AJ:267:MET:C	1:AJ:268:MET:HE2	2.42	0.45
1:AJ:267:MET:HE1	1:AJ:373:CYS:SG	2.56	0.45
1:AJ:359:LYS:HE2	54:3a:133:SER:O	2.16	0.45
2:AK:11:GLN:N	71:AK:501:GTP:O2B	2.48	0.45
1:AL:268:MET:HE2	1:AL:268:MET:HA	1.98	0.45
1:B:88:ASP:OD2	1:B:89:ASN:N	2.50	0.45
2:BA:287:SER:OG	2:BA:288:VAL:N	2.49	0.45
2:BC:312:TYR:HE1	2:BC:379:ALA:HB1	1.81	0.45
2:BG:262:TYR:OH	1:BH:391:ARG:O	2.26	0.45
1:BH:129:CYS:SG	2:BI:96:LYS:HE2	2.56	0.45
2:BI:21:TRP:NE1	2:BI:65:CYS:SG	2.89	0.45
1:BJ:92:PHE:HZ	24:1I:230:SER:HB3	1.81	0.45
1:BJ:305:PRO:HA	1:BJ:373:CYS:SG	2.56	0.45
2:BM:67:PHE:HB2	2:BM:92:LEU:HD12	1.99	0.45
2:C:195:LEU:HA	2:C:266:HIS:CE1	2.50	0.45
2:C:248:LEU:HB2	2:C:355:ILE:H	1.81	0.45
1:CA:45:GLU:HG3	27:1S:754:ARG:NH1	2.31	0.45
1:CA:68:LEU:HG	1:CA:147:MET:HE1	1.98	0.45
1:CA:190:HIS:HB2	1:CA:414:ASN:ND2	2.31	0.45
1:CC:66:MET:SD	1:CC:151:LEU:HD22	2.57	0.45
1:CE:222:PHE:CD1	1:CE:225:LEU:HD23	2.51	0.45
2:CH:166:LYS:N	2:CH:199:ASP:OD2	2.48	0.45
2:CL:326:LYS:NZ	1:CM:208:TYR:HA	2.31	0.45
2:DB:156:ARG:HA	2:DB:159:VAL:HG22	1.97	0.45
2:DF:335:ILE:HG23	2:DF:341:ILE:HD11	1.98	0.45
2:DF:364:PRO:HB3	25:1O:736:MET:HG2	1.98	0.45
1:DI:344:TRP:HB3	1:DI:430:VAL:HG12	1.99	0.45
2:DL:186:ASN:OD1	2:DL:408:TYR:OH	2.30	0.45
1:EB:91:ILE:HD13	1:EB:116:VAL:HA	1.98	0.45
1:EF:344:TRP:HA	2:EG:397:LEU:HG	1.98	0.45
1:EL:58:ARG:NH2	1:EL:83:GLN:O	2.50	0.45
1:EL:113:ILE:O	1:EL:117:LEU:HD23	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EL:344:TRP:HB3	1:EL:430:VAL:HG12	1.98	0.45
1:F:2:ARG:HA	1:F:129:CYS:O	2.17	0.45
1:F:103:LYS:HE3	1:F:103:LYS:HB2	1.79	0.45
1:FB:179:VAL:HG23	1:FB:180:VAL:HG13	1.98	0.45
2:FC:205:ASP:OD1	2:FC:303:THR:HA	2.16	0.45
2:FC:213:THR:HG22	2:FC:217:LEU:HD12	1.99	0.45
1:FF:63:ALA:O	1:FF:89:ASN:ND2	2.47	0.45
1:FF:335:ASN:OD1	63:4I:266:GLN:NE2	2.40	0.45
2:FG:215:ARG:NH2	63:4I:257:THR:HG22	2.29	0.45
1:FJ:226:ASN:HA	1:FJ:229:VAL:HG22	1.98	0.45
1:FJ:272:PRO:HD3	1:FJ:364:SER:HA	1.97	0.45
2:FK:326:LYS:HZ3	1:FL:220:PRO:HD2	1.81	0.45
2:FK:352:LYS:HD2	1:FL:177:ASP:O	2.16	0.45
1:FL:218:THR:HG22	24:1K:463:ASN:H	1.81	0.45
1:G:403:MET:HE1	1:G:408:PHE:CZ	2.52	0.45
2:GA:7:ILE:O	2:GA:137:VAL:HA	2.16	0.45
2:GC:119:LEU:HD21	2:GC:156:ARG:HD2	1.99	0.45
2:GE:329:ASN:HA	2:GE:332:ILE:HG12	1.99	0.45
1:GH:272:PRO:HD2	1:GH:361:LEU:HD11	1.98	0.45
2:GI:1:MET:HG3	2:GI:2:ARG:HG3	1.97	0.45
2:GI:262:TYR:OH	1:GJ:391:ARG:O	2.30	0.45
2:GK:90:GLU:HB2	2:GK:121:ARG:NH1	2.32	0.45
1:HB:20:PHE:HA	1:HB:230:ALA:HB1	1.98	0.45
1:HB:100:ASN:ND2	1:HB:103:LYS:HG3	2.32	0.45
1:HB:133:PHE:HD1	1:HB:164:MET:HE1	1.81	0.45
2:HC:336:LYS:NZ	2:HC:348:PRO:O	2.45	0.45
1:HD:178:THR:HG22	1:HD:180:VAL:H	1.81	0.45
1:HD:181:GLU:O	1:HD:185:THR:HG22	2.17	0.45
2:HG:116:ASP:OD1	2:HG:116:ASP:N	2.50	0.45
2:HG:200:VAL:HG23	2:HG:256:GLN:NE2	2.31	0.45
2:HK:21:TRP:CZ2	2:HK:65:CYS:HB3	2.51	0.45
2:HK:169:TYR:HB3	2:HK:204:LEU:HD11	1.98	0.45
1:HL:77:ARG:HH22	1:IL:281:TYR:HE2	1.62	0.45
2:HM:51:THR:HG21	2:HM:243:ARG:HG2	1.98	0.45
1:I:140:GLY:HA3	1:I:171:PRO:HG3	1.98	0.45
1:I:267:MET:C	1:I:268:MET:HE2	2.42	0.45
2:IG:167:LEU:HD23	2:IG:200:VAL:HB	1.99	0.45
2:II:142:GLY:O	2:II:186:ASN:ND2	2.33	0.45
2:II:395:PHE:CD2	2:II:422:ARG:HD3	2.51	0.45
1:IJ:86:ARG:HG3	2:JJ:283:HIS:HB3	1.97	0.45
1:IL:316:LEU:HD13	1:IL:352:SER:OG	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:257:THR:HG1	1:JA:397:TRP:CG	2.35	0.45
1:JC:423:GLN:OE1	1:JC:423:GLN:HA	2.17	0.45
2:JD:295:VAL:HG11	2:JD:377:MET:HB2	1.98	0.45
2:JD:340:THR:HG23	2:JD:341:ILE:HG23	1.98	0.45
2:JF:271:SER:OG	2:JF:377:MET:HB3	2.16	0.45
1:JG:45:GLU:HG3	1:JG:46:ARG:HG2	1.98	0.45
2:JH:408:TYR:HD2	2:JH:413:MET:HE2	1.81	0.45
2:JL:326:LYS:HE2	1:JM:208:TYR:CD2	2.51	0.45
2:JL:326:LYS:HE3	1:JM:212:PHE:HE2	1.80	0.45
2:JL:414:GLU:OE1	2:JL:416:GLY:N	2.40	0.45
2:JN:1:MET:N	2:JN:3:GLU:OE2	2.47	0.45
1:KA:113:ILE:HG13	1:KA:117:LEU:HD23	1.99	0.45
1:KK:350:LYS:HE2	1:KK:350:LYS:HA	1.98	0.45
2:KL:75:VAL:HG21	2:KL:94:SER:HB2	1.98	0.45
1:KM:326:VAL:HG11	1:KM:353:ILE:HD11	1.98	0.45
1:LA:170:ILE:N	1:LA:202:ILE:O	2.48	0.45
1:LC:245:GLN:O	2:LD:11:GLN:NE2	2.50	0.45
2:LD:308:ARG:HB3	35:2N:198:MET:HE1	1.97	0.45
2:LF:189:LEU:HD13	2:LF:413:MET:HE1	1.98	0.45
1:LG:117:LEU:HB3	1:LG:121:ARG:CZ	2.47	0.45
2:LL:390:ARG:O	2:LL:394:LYS:HG3	2.16	0.45
1:LM:36:TYR:OH	1:LM:40:SER:O	2.34	0.45
2:LN:47:ASP:HA	2:LN:49:PHE:CE1	2.52	0.45
1:LO:377:MET:HE2	1:LO:380:ARG:NH2	2.32	0.45
1:MB:355:ASP:OD2	45:2y:201:THR:N	2.33	0.45
1:MD:139:LEU:HG	1:MD:168:SER:HB2	1.97	0.45
2:ME:402:ARG:HG3	32:2B:103:TYR:CZ	2.51	0.45
1:MF:381:VAL:HB	1:MF:415:MET:HE1	1.98	0.45
1:MH:208:TYR:HE1	1:MH:225:LEU:HD11	1.82	0.45
1:MJ:279:GLN:NE2	23:1B:338:LEU:HD22	2.31	0.45
1:ML:101:TRP:NE1	1:ML:188:SER:OG	2.50	0.45
2:MM:1:MET:HB2	2:MM:2:ARG:HH11	1.82	0.45
1:N:190:HIS:NE2	1:N:191:GLN:OE1	2.49	0.45
2:NA:96:LYS:HA	2:NA:96:LYS:HD2	1.75	0.45
2:NA:395:PHE:O	2:NA:398:MET:HB2	2.17	0.45
1:ND:139:LEU:CD2	1:ND:168:SER:HB2	2.45	0.45
2:NE:229:ARG:HE	2:NE:363:VAL:HG21	1.80	0.45
2:NG:326:LYS:HE2	1:NH:208:TYR:CD1	2.51	0.45
1:NH:50:TYR:HD2	1:NH:241:ARG:HD3	1.82	0.45
1:NH:324:LYS:NZ	2:NI:222:PRO:HB2	2.31	0.45
2:NI:5:ILE:HD13	2:NI:64:ARG:HB3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NL:232:VAL:HG11	1:NL:268:MET:HG3	1.99	0.45
1:NL:239:CYS:SG	1:NL:248:SER:OG	2.58	0.45
2:NM:228:ASN:OD1	71:NM:501:GTP:N1	2.49	0.45
2:NM:247:ALA:HB3	2:NM:355:ILE:HB	1.98	0.45
1:O:9:ALA:HB3	1:O:137:HIS:HB3	1.98	0.45
1:O:22:GLU:HG2	1:O:81:TYR:CD1	2.52	0.45
2:OA:4:ALA:HB3	2:OA:52:PHE:HE1	1.81	0.45
1:OF:152:ILE:HD12	1:OF:166:THR:HG21	1.98	0.45
2:OG:174:SER:HB3	2:OG:177:VAL:O	2.16	0.45
1:OH:66:MET:SD	1:OH:116:VAL:HG21	2.57	0.45
1:OH:68:LEU:HD12	1:OH:97:ALA:HB2	1.98	0.45
2:OI:69:ASP:OD1	2:OI:70:LEU:N	2.49	0.45
1:OL:276:ARG:HH21	41:2o:171:GLU:HB3	1.79	0.45
1:OL:371:ASN:ND2	1:OL:373:CYS:SG	2.89	0.45
2:PA:252:LEU:HA	2:PA:255:PHE:CE1	2.51	0.45
2:PE:348:PRO:HG2	1:PF:384:GLN:OE1	2.16	0.45
1:PF:385:PHE:HZ	1:PF:408:PHE:HB3	1.81	0.45
1:PF:421:GLU:O	1:PF:424:GLN:HG3	2.17	0.45
1:PH:359:LYS:HB3	28:1d:215:ARG:NH1	2.31	0.45
1:PL:228:LEU:HD11	1:PL:273:LEU:HD21	1.98	0.45
2:Q:155:GLU:O	2:Q:159:VAL:HG23	2.16	0.45
2:QB:118:ALA:O	2:QB:122:ILE:HG12	2.17	0.45
2:QH:250:VAL:CG1	2:QH:318:MET:HE1	2.47	0.45
2:QH:265:ILE:HG23	2:QH:432:TYR:CE1	2.52	0.45
1:QI:275:SER:HB3	1:QI:278:SER:HB3	1.97	0.45
1:QK:249:ASP:OD1	1:QK:252:LYS:N	2.41	0.45
1:RA:132:GLY:HA2	1:RA:162:ARG:HG3	1.99	0.45
2:RD:310:GLY:HA3	2:RD:383:ALA:HB2	1.98	0.45
1:RE:344:TRP:HZ3	2:RF:403:ALA:HB2	1.81	0.45
2:RF:209:ILE:HG21	2:RF:227:VAL:HA	1.98	0.45
2:RF:331:ALA:O	2:RF:335:ILE:HG12	2.16	0.45
1:RG:167:PHE:CE2	1:RG:233:MET:HG3	2.51	0.45
1:RG:317:PHE:HB2	1:RG:353:ILE:HD13	1.98	0.45
1:RI:144:GLY:N	69:RI:500:GDP:O2B	2.42	0.45
1:RK:189:VAL:HG12	1:RK:415:MET:HE1	1.98	0.45
1:S:293:MET:HA	1:S:293:MET:HE2	1.99	0.45
2:SA:252:LEU:HA	2:SA:255:PHE:CZ	2.50	0.45
1:SB:124:ALA:HB1	1:SB:130:LEU:HD22	1.98	0.45
1:SB:276:ARG:NH2	41:2b:171:GLU:HG3	2.31	0.45
1:SB:317:PHE:HB3	1:SB:321:MET:HE1	1.97	0.45
2:SC:422:ARG:NH1	2:SC:426:ALA:HB2	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SE:196:GLU:HG2	58:3m:156:LYS:HD3	1.99	0.45
1:SF:171:PRO:HB2	1:SF:181:GLU:OE2	2.16	0.45
1:SF:272:PRO:HD3	1:SF:364:SER:HA	1.99	0.45
1:SF:323:THR:HA	1:SF:326:VAL:HG12	1.98	0.45
2:SG:206:ASN:OD1	71:SG:501:GTP:N2	2.44	0.45
1:SH:330:MET:SD	1:SH:349:ILE:HG21	2.56	0.45
2:SK:117:LEU:HD12	61:3x:95:TYR:CD2	2.52	0.45
2:SK:158:SER:OG	2:SK:197:HIS:HD2	1.98	0.45
1:T:61:PRO:HD3	1:T:84:LEU:HG	1.99	0.45
1:T:113:ILE:HA	1:T:116:VAL:HB	1.97	0.45
1:TB:91:ILE:CD1	1:TB:116:VAL:HG22	2.43	0.45
1:TF:293:MET:HE1	1:TF:330:MET:HE1	1.98	0.45
1:TF:314:SER:HB3	1:TF:368:ILE:HB	1.99	0.45
2:TG:140:ALA:HB3	71:TG:501:GTP:H5'	1.99	0.45
1:TJ:337:ASN:CG	61:3x:81:VAL:CG2	2.89	0.45
2:TK:251:ASP:HB3	2:TK:254:GLU:HG2	1.99	0.45
2:TK:332:ILE:O	2:TK:336:LYS:HG2	2.16	0.45
1:U:316:LEU:HB2	1:U:366:THR:HG22	1.97	0.45
1:UB:282:ARG:NH2	1:UB:292:GLN:OE1	2.48	0.45
2:UC:150:GLY:O	2:UC:154:LEU:HD23	2.16	0.45
2:UG:34:GLY:O	2:UG:61:HIS:N	2.50	0.45
2:UK:191:THR:O	2:UK:195:LEU:HD23	2.16	0.45
2:VA:27:GLU:OE1	2:VA:243:ARG:NH2	2.49	0.45
2:VA:254:GLU:OE2	1:VB:98:GLY:N	2.49	0.45
1:VB:311:LEU:HD23	1:VB:342:ILE:HD13	1.99	0.45
2:VC:137:VAL:HG11	2:VC:154:LEU:HD11	1.98	0.45
2:VE:23:LEU:O	2:VE:27:GLU:HG3	2.16	0.45
2:VG:2:ARG:HG2	2:VG:133:GLN:NE2	2.31	0.45
1:VL:392:LYS:HE2	1:VL:395:LEU:HD22	1.99	0.45
1:W:294:PHE:CD2	1:W:333:VAL:HG11	2.52	0.45
2:WC:262:TYR:HB2	2:WC:265:ILE:HG12	1.98	0.45
1:WH:323:THR:HA	1:WH:326:VAL:HG22	1.97	0.45
2:WI:116:ASP:N	2:WI:116:ASP:OD1	2.49	0.45
2:WM:21:TRP:CZ2	2:WM:65:CYS:HB3	2.51	0.45
2:WM:127:ASP:OD1	4:XR:127:TYR:OH	2.34	0.45
6:0:69:PHE:CD2	6:0:70:LEU:HD23	2.51	0.45
8:0F:54:GLY:N	13:0Y:225:ARG:HH12	2.14	0.45
9:0N:332:PHE:CE1	9:0N:340:PHE:HB3	2.50	0.45
10:0R:39:GLU:O	10:0R:42:LEU:HG	2.16	0.45
14:0c:35:GLN:NE2	14:0c:36:LYS:HG2	2.31	0.45
14:0c:265:ALA:O	14:0c:268:GLU:HG2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:0l:424:VAL:HG12	16:0l:425:ARG:HG2	1.99	0.45
16:0l:436:ARG:HH21	16:0l:473:SER:HA	1.81	0.45
16:0l:800:THR:HG22	16:0l:803:ARG:HG3	1.98	0.45
16:0k:324:ARG:HA	16:0k:327:ILE:HG12	1.98	0.45
16:0k:436:ARG:HD3	16:0k:459:ILE:HD12	1.98	0.45
17:0n:401:ARG:HG2	17:0n:401:ARG:NH1	2.31	0.45
20:0u:136:HIS:ND1	20:0u:204:ASP:O	2.50	0.45
20:0u:137:TYR:HA	20:0u:191:ILE:HG23	1.98	0.45
23:1B:217:ARG:NH2	45:2z:184:LEU:HG	2.31	0.45
23:1E:145:LEU:HD12	45:2z:38:ARG:HG3	1.99	0.45
24:1H:267:LEU:HG	24:1H:268:TYR:CD2	2.52	0.45
24:1I:27:MET:O	40:2Z:366:ARG:NH1	2.49	0.45
24:1I:332:ASP:OD1	24:1I:332:ASP:N	2.47	0.45
24:1I:448:TYR:CE1	24:1I:474:ARG:HG3	2.51	0.45
24:1I:544:THR:HB	24:1I:575:LEU:HD11	1.99	0.45
25:1O:601:TYR:HA	25:1O:624:VAL:HG21	1.98	0.45
26:1Q:234:LEU:HB3	26:1Q:238:GLU:HG3	1.98	0.45
27:1S:638:SER:O	27:1S:642:LEU:HD23	2.16	0.45
27:1S:767:ARG:HH21	27:1S:824:ARG:HH21	1.64	0.45
27:1T:783:THR:HG23	27:1T:786:GLN:H	1.81	0.45
28:1h:70:GLU:OE1	41:2o:280:LEU:HD22	2.16	0.45
29:1j:55:SER:OG	29:1j:56:LEU:N	2.48	0.45
22:1w:69:TYR:HA	22:1w:72:THR:OG1	2.16	0.45
33:2G:20:LEU:HG	33:2G:50:ALA:HB1	1.98	0.45
36:2Q:174:ILE:HG12	36:2Q:209:VAL:HB	1.97	0.45
41:2e:166:LYS:HE2	41:2e:166:LYS:HA	1.98	0.45
41:2h:356:VAL:O	41:2h:360:LEU:HD23	2.16	0.45
42:2r:106:PRO:HB3	42:2r:129:PHE:CE2	2.51	0.45
44:2v:243:PHE:HZ	44:2v:263:MET:HE3	1.81	0.45
45:2z:19:ARG:NH1	45:2z:41:GLU:OE2	2.49	0.45
46:3B:265:MET:HE2	46:3B:315:VAL:HG13	1.98	0.45
54:3Z:285:ALA:HA	54:3Z:288:ARG:HD2	1.97	0.45
55:3b:62:THR:HA	55:3b:65:LYS:HD2	1.97	0.45
57:3h:37:GLN:O	57:3h:40:GLU:HG2	2.16	0.45
64:5C:202:ALA:O	64:5C:206:VAL:HG23	2.15	0.45
65:5H:184:MET:HE1	66:5L:269:LEU:HD13	1.98	0.45
66:5K:31:LYS:NZ	66:5K:226:THR:HB	2.32	0.45
67:5P:91:PHE:HD2	67:5P:95:ILE:HG22	1.80	0.45
68:5S:113:LEU:HD22	68:5S:123:VAL:HG13	1.98	0.45
1:A:323:THR:HG22	2:AA:223:SER:HA	1.98	0.45
2:AA:352:LYS:HG3	1:AB:177:ASP:O	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:434:GLU:OE2	3:X:100:ARG:NE	2.50	0.45
2:AG:326:LYS:HA	2:AG:326:LYS:HD3	1.31	0.45
1:AH:306:ARG:HA	1:AH:340:TYR:HE2	1.82	0.45
1:AL:131:GLN:HE22	1:AL:249:ASP:HB2	1.81	0.45
1:B:111:GLU:OE1	1:B:111:GLU:N	2.49	0.45
1:BB:178:THR:O	1:BB:181:GLU:HG3	2.17	0.45
2:BC:169:TYR:HB3	2:BC:204:LEU:HD11	1.98	0.45
1:BD:152:ILE:HG22	1:BD:195:ASN:HB3	1.98	0.45
2:BE:211:ASP:HB3	2:BE:215:ARG:NH1	2.31	0.45
1:BF:323:THR:HG21	2:BG:224:TYR:CE1	2.52	0.45
2:BG:326:LYS:CE	1:BH:220:PRO:HD2	2.47	0.45
1:BH:22:GLU:HG2	1:BH:81:TYR:HB2	1.99	0.45
2:BI:26:LEU:HD13	2:BI:363:VAL:HA	1.99	0.45
2:BI:317:LEU:HB3	2:BI:319:TYR:CE1	2.51	0.45
2:BM:75:VAL:HG21	2:BM:94:SER:HB2	1.97	0.45
2:BM:169:TYR:CE2	2:BM:235:VAL:HG22	2.51	0.45
1:BN:91:ILE:HD11	1:BN:119:VAL:HG11	1.98	0.45
1:BN:361:LEU:HD22	24:1K:109:ALA:HB2	1.98	0.45
2:CB:367:ASP:N	2:CB:367:ASP:OD1	2.50	0.45
2:CD:195:LEU:HD11	2:CD:428:LEU:HD13	1.98	0.45
2:CD:262:TYR:HB2	2:CD:265:ILE:HG12	1.96	0.45
1:CE:330:MET:HA	1:CE:333:VAL:HG22	1.98	0.45
1:CG:87:PRO:HD3	1:DG:281:TYR:CD1	2.51	0.45
1:CG:324:LYS:HE3	2:CH:210:TYR:CG	2.51	0.45
1:CI:56:GLY:HA3	24:1I:267:LEU:HD21	1.98	0.45
1:CI:276:ARG:HD3	24:1I:331:GLU:HB3	1.98	0.45
1:CI:322:SER:CB	2:CJ:221:ARG:HB3	2.46	0.45
1:CI:344:TRP:CD2	2:CJ:401:LYS:HD2	2.52	0.45
2:CL:188:VAL:HG22	2:CL:421:ALA:HB1	1.98	0.45
1:CM:280:GLN:NE2	1:CM:280:GLN:O	2.47	0.45
1:DC:8:GLN:CD	1:DC:17:GLY:HA3	2.42	0.45
1:DE:68:LEU:HD12	1:DE:97:ALA:HA	1.98	0.45
1:DE:316:LEU:HB2	1:DE:366:THR:OG1	2.16	0.45
1:DE:385:PHE:CE2	1:DE:412:GLU:HB3	2.51	0.45
1:DI:242:PHE:HB2	1:DI:354:CYS:SG	2.57	0.45
2:DJ:212:LEU:O	2:DJ:216:SER:HB2	2.17	0.45
2:DJ:265:ILE:HG23	2:DJ:432:TYR:HE2	1.82	0.45
1:DK:317:PHE:CD2	1:DK:326:VAL:HG23	2.51	0.45
1:EB:61:PRO:HD3	1:EB:84:LEU:HG	1.98	0.45
1:EB:267:MET:HE3	1:EB:301:GLN:NE2	2.19	0.45
1:EB:325:GLU:O	1:EB:329:GLN:HG2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EC:167:LEU:HG	2:EC:200:VAL:HB	1.98	0.45
1:ED:301:GLN:HE22	1:ED:303:ALA:HB3	1.81	0.45
2:EE:217:LEU:HB3	2:EE:219:ILE:HG12	1.98	0.45
1:EH:105:HIS:HD2	1:EH:106:TYR:CE1	2.34	0.45
2:EK:33:ASP:OD1	2:EK:34:GLY:N	2.49	0.45
2:EK:88:ASN:HA	2:FK:283:HIS:CD2	2.51	0.45
1:FD:344:TRP:CZ2	2:FE:401:LYS:HD2	2.52	0.45
1:FF:20:PHE:O	1:FF:24:ILE:HG12	2.16	0.45
2:FG:76:ASP:OD1	2:FG:79:ARG:NH1	2.49	0.45
2:FG:309:HIS:HB3	2:FG:386:GLU:OE2	2.16	0.45
1:FH:198:GLU:HA	1:FH:264:HIS:HB2	1.98	0.45
2:FK:3:GLU:HB2	2:FK:129:CYS:SG	2.56	0.45
2:FK:201:ALA:O	2:FK:268:VAL:HG22	2.16	0.45
2:GC:58:ALA:HA	17:0n:360:HIS:HE1	1.80	0.45
1:GD:186:THR:HA	1:GD:189:VAL:HG22	1.98	0.45
2:GG:285:GLN:HE22	2:GG:287:SER:HB3	1.80	0.45
1:GJ:257:LEU:HD23	1:GJ:312:THR:HB	1.98	0.45
1:GL:404:ASP:N	1:GL:407:GLU:OE1	2.49	0.45
1:H:31:ASP:HB2	1:H:37:GLN:HG2	1.98	0.45
2:HA:259:LEU:HD21	2:HA:316:CYS:CB	2.43	0.45
1:HB:267:MET:SD	1:HB:374:ILE:HD13	2.56	0.45
2:HC:265:ILE:HG13	2:HC:380:ASN:HD21	1.81	0.45
2:HG:173:PRO:HG3	2:HG:183:GLU:HG2	1.97	0.45
1:HH:204:ASN:HD21	69:HH:500:GDP:HN22	1.64	0.45
1:HJ:163:ILE:HD11	1:HJ:251:ARG:NE	2.29	0.45
1:HJ:327:ASP:OD2	2:HK:177:VAL:HB	2.17	0.45
1:HL:317:PHE:HZ	1:HL:330:MET:HE3	1.81	0.45
1:HL:322:SER:HB2	2:HM:221:ARG:HE	1.82	0.45
1:I:41:ASP:OD2	38:2U:112:TYR:HB2	2.16	0.45
2:IA:257:THR:HG23	1:IB:397:TRP:CG	2.50	0.45
2:IA:311:LYS:HE2	2:IA:344:VAL:HA	1.97	0.45
1:IB:174:ARG:HH12	1:IB:380:ARG:NE	2.15	0.45
2:IC:250:VAL:HG21	2:IC:352:LYS:HE2	1.98	0.45
1:ID:65:LEU:HB3	1:ID:73:MET:HE1	1.98	0.45
2:IE:101:ASN:ND2	71:IE:501:GTP:O1A	2.48	0.45
1:IF:224:ASP:HA	1:IF:227:HIS:CD2	2.45	0.45
1:IF:358:PRO:HB2	1:IF:361:LEU:HD12	1.98	0.45
2:IG:53:PHE:HB3	2:IG:61:HIS:HB3	1.98	0.45
1:IH:267:MET:HG2	1:IH:369:GLY:O	2.17	0.45
1:IL:267:MET:C	1:IL:268:MET:HE2	2.40	0.45
2:IM:5:ILE:HG12	2:IM:132:LEU:HD13	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JC:267:MET:HE2	1:JC:371:ASN:CB	2.43	0.45
1:JG:355:ASP:OD2	47:3D:154:THR:HG22	2.17	0.45
1:JK:198:GLU:HA	1:JK:264:HIS:HB2	1.98	0.45
2:JL:268:VAL:HG22	2:JL:380:ASN:HB2	1.98	0.45
2:JN:195:LEU:HD13	2:JN:428:LEU:HD13	1.98	0.45
2:JN:318:MET:O	2:JN:375:VAL:HA	2.17	0.45
2:KB:252:LEU:HA	2:KB:255:PHE:CE1	2.52	0.45
1:KC:385:PHE:HZ	1:KC:408:PHE:HD1	1.63	0.45
1:KE:3:GLU:HB3	1:KE:130:LEU:HA	1.98	0.45
2:KF:23:LEU:HD22	2:KF:236:SER:OG	2.16	0.45
1:KG:256:ASN:HD21	2:KH:101:ASN:HD22	1.65	0.45
2:KJ:153:LEU:O	2:KJ:157:LEU:HD23	2.16	0.45
2:KJ:326:LYS:CE	1:KK:220:PRO:HD2	2.41	0.45
2:KN:122:ILE:HD13	2:KN:157:LEU:HD21	1.98	0.45
2:L:104:ALA:HA	2:L:108:TYR:HD2	1.82	0.45
2:LB:204:LEU:HD22	2:LB:231:ILE:HG12	1.99	0.45
2:LB:234:VAL:HG13	2:LB:376:CYS:SG	2.56	0.45
2:LB:326:LYS:HD3	1:LC:220:PRO:HG2	1.98	0.45
2:LB:395:PHE:CD1	2:LB:422:ARG:HD3	2.51	0.45
1:LC:166:THR:OG1	1:LC:199:SER:OG	2.34	0.45
2:LD:291:ILE:O	2:LD:295:VAL:HG23	2.15	0.45
2:LJ:268:VAL:HG21	2:LJ:378:ILE:HG13	1.97	0.45
1:LK:390:ARG:HG3	22:0z:151:LEU:HA	1.98	0.45
2:LN:1:MET:HE2	1:LO:70:PRO:HG2	1.98	0.45
2:LN:422:ARG:HH12	2:LN:426:ALA:HB2	1.81	0.45
1:M:406:MET:HA	1:M:406:MET:HE2	1.99	0.45
2:MA:134:GLY:HA2	2:MA:164:LYS:HG3	1.99	0.45
2:MA:291:ILE:O	2:MA:295:VAL:HG23	2.16	0.45
1:MB:415:MET:O	1:MB:419:VAL:HG23	2.16	0.45
2:MC:364:PRO:HD3	45:2y:216:TYR:HB3	1.98	0.45
1:MD:63:ALA:O	1:MD:89:ASN:ND2	2.31	0.45
1:MD:267:MET:HE2	1:MD:299:MET:SD	2.56	0.45
2:ME:328:VAL:HG21	2:ME:355:ILE:HD11	1.98	0.45
2:MI:167:LEU:HD13	2:MI:200:VAL:HB	1.99	0.45
2:MI:296:PHE:HZ	2:MI:351:PHE:HE1	1.64	0.45
2:MI:304:LYS:HA	2:MI:304:LYS:HD3	1.73	0.45
1:MN:335:ASN:HB3	13:0a:70:ARG:HD2	1.97	0.45
2:NA:392:ASP:OD1	2:NA:393:HIS:N	2.48	0.45
2:NE:152:LEU:O	2:NE:156:ARG:HG2	2.15	0.45
1:NF:60:VAL:HG11	1:NF:86:ARG:HE	1.80	0.45
1:NF:397:TRP:O	1:NF:401:GLU:HG2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NH:165:MET:CE	1:NH:250:LEU:HD11	2.37	0.45
2:NI:260:VAL:HB	1:NJ:397:TRP:CH2	2.52	0.45
1:NJ:306:ARG:HG2	1:NJ:340:TYR:CE2	2.51	0.45
2:NK:71:GLU:HG2	2:NK:98:ASP:HB3	1.99	0.45
1:OF:134:GLN:HE21	1:OF:233:MET:HE2	1.82	0.45
1:OF:293:MET:HE2	1:OF:367:PHE:HB2	1.97	0.45
1:OH:171:PRO:HB2	1:OH:181:GLU:HG2	1.98	0.45
1:OH:210:ILE:HG12	1:OH:297:LYS:O	2.16	0.45
2:OI:105:ARG:HG2	2:OI:105:ARG:NH1	2.31	0.45
2:OI:268:VAL:CG2	2:OI:378:ILE:HG13	2.46	0.45
2:OI:291:ILE:O	2:OI:295:VAL:HG23	2.16	0.45
1:OJ:99:ASN:O	1:OJ:180:VAL:HG21	2.17	0.45
2:OK:103:TYR:H	2:OK:408:TYR:HE1	1.65	0.45
1:OL:20:PHE:HA	1:OL:230:ALA:HB1	1.98	0.45
2:PA:36:MET:HE2	2:PA:61:HIS:HE2	1.80	0.45
2:PE:70:LEU:HD22	2:PE:110:ILE:HG22	1.99	0.45
2:PE:293:ASN:O	2:PE:297:GLU:HG2	2.17	0.45
2:PE:359:PRO:HG3	28:1d:169:PHE:CE2	2.51	0.45
2:PE:392:ASP:OD2	2:PE:422:ARG:NH1	2.50	0.45
1:PF:278:SER:O	1:PF:278:SER:OG	2.32	0.45
1:PF:322:SER:OG	1:PF:325:GLU:OE1	2.35	0.45
1:PH:332:ASN:HB3	1:PH:336:LYS:NZ	2.31	0.45
2:PI:251:ASP:O	2:PI:254:GLU:HB3	2.15	0.45
2:PI:275:VAL:HG13	2:PI:368:LEU:HD21	1.97	0.45
2:PI:431:ASP:O	2:PI:435:VAL:HG13	2.16	0.45
1:PJ:91:ILE:HG22	1:PJ:112:LEU:HD21	1.99	0.45
2:PK:175:PRO:HB3	2:PK:390:ARG:NH1	2.32	0.45
1:QA:291:GLN:HB2	59:4a:141:VAL:HG21	1.97	0.45
2:QD:234:VAL:HG22	2:QD:272:TYR:HB2	1.98	0.45
1:QE:190:HIS:CE1	1:QE:191:GLN:HG2	2.52	0.45
1:QE:202:ILE:HG23	1:QE:300:MET:HG2	1.98	0.45
1:QE:256:ASN:HD21	2:QF:180:ALA:HA	1.81	0.45
2:QF:169:TYR:HA	2:QF:202:THR:HB	1.97	0.45
1:QK:246:LEU:HD21	2:QL:179:THR:OG1	2.16	0.45
1:QK:309:ARG:NH1	1:QK:342:ILE:HG22	2.31	0.45
1:RE:69:GLU:HG2	1:RE:71:GLY:H	1.82	0.45
1:RE:255:VAL:HG23	2:RF:407:TRP:CG	2.52	0.45
1:RI:170:ILE:HG21	1:RI:377:MET:SD	2.56	0.45
2:SA:227:VAL:O	2:SA:231:ILE:HG12	2.17	0.45
1:SD:180:VAL:O	1:SD:180:VAL:HG12	2.17	0.45
2:SE:22:GLU:OE1	28:1U:191:TYR:HD1	2.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SJ:73:MET:HA	1:SJ:76:VAL:HG12	1.98	0.45
1:SJ:198:GLU:HA	1:SJ:264:HIS:HB2	1.97	0.45
2:SK:123:ARG:NH2	61:3x:109:GLU:HG2	2.26	0.45
2:TA:196:GLU:HG3	2:TA:197:HIS:CD2	2.51	0.45
2:TA:399:TYR:OH	2:TA:415:GLU:OE2	2.33	0.45
1:TB:16:ILE:HA	1:TB:226:ASN:HB3	1.99	0.45
1:TB:46:ARG:HH22	2:TC:73:THR:HA	1.81	0.45
1:TB:117:LEU:O	1:TB:121:ARG:NE	2.42	0.45
1:TD:139:LEU:HD21	1:TD:192:LEU:HD11	1.99	0.45
1:TD:316:LEU:HB2	1:TD:366:THR:HG22	1.98	0.45
1:TF:290:THR:HA	1:TF:293:MET:HG2	1.99	0.45
2:TI:82:THR:HA	2:TI:84:ARG:HH11	1.79	0.45
1:UB:185:THR:O	1:UB:189:VAL:HG23	2.16	0.45
1:UB:202:ILE:HD12	1:UB:268:MET:HE2	1.98	0.45
1:UH:317:PHE:HE2	1:UH:330:MET:HE1	1.82	0.45
2:UI:291:ILE:O	2:UI:295:VAL:HG23	2.15	0.45
1:V:65:LEU:HD13	1:V:90:PHE:HE1	1.82	0.45
1:V:67:ASP:O	1:V:92:PHE:HA	2.16	0.45
2:VA:91:GLN:HG2	2:VA:125:LEU:HD21	1.99	0.45
1:VB:267:MET:HE1	1:VB:299:MET:HE3	1.99	0.45
2:VC:293:ASN:O	2:VC:297:GLU:HG2	2.17	0.45
1:VH:42:LEU:HD12	1:VH:356:ILE:HD11	1.97	0.45
1:VL:133:PHE:CD2	1:VL:155:LEU:HD13	2.51	0.45
1:W:333:VAL:HA	1:W:336:LYS:HG2	1.98	0.45
1:WD:2:ARG:HH22	2:WE:73:THR:HG23	1.80	0.45
1:WD:310:TYR:HA	1:WD:371:ASN:HA	1.98	0.45
1:WF:50:TYR:CE2	1:WF:237:THR:HG21	2.51	0.45
1:WF:172:SER:OG	1:WF:205:GLU:OE2	2.25	0.45
2:WI:90:GLU:O	2:WI:91:GLN:HG2	2.16	0.45
2:WK:217:LEU:HB3	2:WK:219:ILE:HG13	1.98	0.45
1:WL:162:ARG:NH2	2:WM:97:GLU:OE2	2.49	0.45
1:WL:252:LYS:HD2	2:WM:101:ASN:ND2	2.32	0.45
2:WM:177:VAL:N	2:WM:207:GLU:OE2	2.47	0.45
3:XE:13:ILE:HD12	3:XE:154:VAL:HG11	1.98	0.45
7:0C:402:ALA:O	7:0C:406:GLY:C	2.58	0.45
9:0L:212:LYS:HD3	9:0L:213:TYR:CE2	2.51	0.45
9:0M:145:LEU:HB3	9:0M:186:ARG:CZ	2.47	0.45
9:0N:122:TYR:OH	9:0N:181:VAL:HG21	2.16	0.45
9:0N:513:LEU:HD11	9:0N:522:LEU:HD12	1.98	0.45
10:0R:77:GLU:OE1	46:3B:260:SER:OG	2.35	0.45
15:0g:57:LEU:HB3	15:0g:62:ILE:HD11	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:0l:317:GLU:O	16:0l:321:THR:HG23	2.17	0.45
16:0l:781:ARG:N	16:0l:782:PRO:HD3	2.31	0.45
16:0k:297:VAL:O	16:0k:301:GLU:HG2	2.16	0.45
19:0r:237:TYR:CE1	19:0r:241:MET:HB3	2.52	0.45
23:1B:347:GLN:OE1	23:1B:350:ARG:NH1	2.48	0.45
24:1H:311:LYS:HE3	24:1H:342:ASP:OD1	2.16	0.45
24:1I:493:GLY:HA3	24:1I:579:GLU:OE1	2.16	0.45
24:1I:534:LYS:HD2	24:1I:577:LEU:HD13	1.99	0.45
25:1O:279:GLU:HG3	25:1O:306:LEU:HD12	1.99	0.45
27:1S:305:VAL:HG22	27:1S:316:ILE:HG12	1.99	0.45
28:1b:172:ASP:N	28:1b:172:ASP:OD1	2.49	0.45
22:1w:252:ASN:ND2	22:1w:254:THR:OG1	2.49	0.45
35:2O:24:THR:O	35:2O:29:LEU:HA	2.15	0.45
44:2v:292:ASP:HB3	44:2v:294:ASP:OD1	2.17	0.45
44:2w:358:GLY:O	44:2w:362:ILE:HG12	2.16	0.45
45:2z:52:THR:HG23	45:2z:54:GLU:H	1.81	0.45
46:3B:355:ARG:O	46:3B:359:ARG:HG2	2.15	0.45
49:3Q:128:ARG:HH22	49:3Q:138:ASN:ND2	2.14	0.45
49:3Q:236:VAL:HB	49:3Q:245:ALA:HB2	1.97	0.45
49:3Q:259:ARG:HD2	49:3Q:264:VAL:HG11	1.97	0.45
49:3Q:400:ARG:HH11	49:3Q:480:SER:HG	1.62	0.45
57:3i:158:LYS:O	57:3i:161:GLU:HB3	2.15	0.45
62:4B:429:HIS:CD2	62:4B:430:PRO:HD2	2.52	0.45
28:4W:17:THR:HG21	28:4W:22:ILE:HD11	1.98	0.45
59:4a:298:ILE:HB	59:4a:300:TYR:CE1	2.52	0.45
64:5B:239:ALA:HA	64:5B:242:HIS:CE1	2.51	0.45
64:5C:164:GLN:HG3	65:5H:159:ILE:HD11	1.98	0.45
67:5O:80:MET:HB2	67:5O:101:ILE:HB	1.98	0.45
2:AA:237:SER:HA	2:AA:320:ARG:HD2	1.98	0.45
2:AA:328:VAL:O	2:AA:332:ILE:HG12	2.16	0.45
2:AC:204:LEU:HD13	2:AC:231:ILE:HD13	1.99	0.45
2:AC:268:VAL:HB	2:AC:378:ILE:HG22	1.99	0.45
1:AD:113:ILE:HD11	1:AD:151:LEU:HB2	1.99	0.45
1:AD:246:LEU:HD21	2:AE:179:THR:HG23	1.97	0.45
2:AE:31:GLN:HG2	2:AE:37:PRO:HD3	1.98	0.45
1:AF:66:MET:HE3	1:AF:147:MET:HE2	1.98	0.45
1:AF:139:LEU:HA	1:AF:145:SER:HB3	1.98	0.45
1:AF:385:PHE:HZ	1:AF:408:PHE:HD1	1.65	0.45
1:AH:91:ILE:CD1	1:AH:116:VAL:HG22	2.46	0.45
1:AH:344:TRP:HB3	1:AH:430:VAL:HG12	1.98	0.45
2:AI:399:TYR:O	2:AI:402:ARG:NH1	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:371:ASN:O	1:AL:374:ILE:HG12	2.17	0.45
1:B:309:ARG:HH22	1:B:343:GLU:HG3	1.80	0.45
2:BA:223:SER:OG	2:BA:224:TYR:N	2.50	0.45
2:BA:250:VAL:HA	2:BA:254:GLU:HG2	1.99	0.45
1:BB:152:ILE:O	1:BB:156:ARG:HG2	2.16	0.45
2:BC:17:GLY:HA2	2:BC:20:CYS:SG	2.56	0.45
2:BC:164:LYS:HE2	2:BC:164:LYS:HB2	1.72	0.45
2:BC:205:ASP:OD1	2:BC:303:THR:HA	2.16	0.45
1:BD:60:VAL:HG11	1:BD:86:ARG:HE	1.80	0.45
2:BE:395:PHE:CD2	2:BE:422:ARG:HD3	2.52	0.45
1:BF:385:PHE:HZ	1:BF:408:PHE:HB3	1.81	0.45
2:BG:188:VAL:HG12	2:BG:421:ALA:HB1	1.99	0.45
2:BI:395:PHE:CD2	2:BI:422:ARG:HD3	2.52	0.45
1:BJ:164:MET:HE2	1:BJ:164:MET:HB3	1.83	0.45
1:BJ:330:MET:HB3	1:BJ:349:ILE:HG13	1.98	0.45
2:BK:177:VAL:N	2:BK:207:GLU:OE2	2.38	0.45
1:CA:151:LEU:HG	1:CA:155:LEU:HD23	1.98	0.45
2:CB:31:GLN:HB2	2:CB:33:ASP:OD1	2.17	0.45
2:CD:298:PRO:HD2	2:CD:299:ALA:N	2.30	0.45
2:CF:186:ASN:OD1	2:CF:408:TYR:OH	2.32	0.45
2:CH:251:ASP:H	2:CH:254:GLU:CB	2.29	0.45
2:CH:295:VAL:HG21	2:CH:375:VAL:HG13	1.98	0.45
1:CI:240:LEU:HD11	1:CI:249:ASP:HA	1.98	0.45
1:CI:346:PRO:HG2	2:CJ:394:LYS:HZ3	1.81	0.45
1:CK:139:LEU:HG	1:CK:168:SER:HB2	1.99	0.45
2:CL:217:LEU:HD23	2:CL:217:LEU:HA	1.80	0.45
2:CL:257:THR:HG21	1:CM:98:GLY:O	2.17	0.45
2:DD:47:ASP:N	2:DD:47:ASP:OD1	2.46	0.45
2:DD:252:LEU:HA	2:DD:255:PHE:CE1	2.51	0.45
2:DF:311:LYS:HE2	2:DF:344:VAL:HA	1.97	0.45
1:DG:27:GLU:OE1	1:DG:241:ARG:NH1	2.49	0.45
2:DH:231:ILE:O	2:DH:235:VAL:HG23	2.17	0.45
2:DL:306:ASP:HB3	2:DL:309:HIS:CE1	2.51	0.45
1:DM:148:GLY:O	1:DM:152:ILE:HG13	2.17	0.45
1:E:82:GLY:HA2	1:E:85:PHE:HE2	1.80	0.45
2:EA:195:LEU:HD21	2:EA:264:ARG:HE	1.80	0.45
2:EC:326:LYS:HA	2:EC:326:LYS:HD3	1.37	0.45
2:EE:113:GLU:HB2	63:4I:304:ARG:HD3	1.98	0.45
2:EE:199:ASP:HB3	2:EE:256:GLN:NE2	2.32	0.45
2:EG:70:LEU:HD13	2:EG:145:THR:OG1	2.16	0.45
1:EH:166:THR:N	1:EH:200:MET:HE1	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EI:262:TYR:OH	1:EJ:391:ARG:O	2.33	0.45
1:EL:272:PRO:HD2	1:EL:361:LEU:HD13	1.99	0.45
1:F:61:PRO:HD3	1:F:84:LEU:HG	1.98	0.45
2:FA:71:GLU:HB2	2:FA:98:ASP:HB3	1.97	0.45
1:FB:198:GLU:OE2	1:FB:254:ALA:HB2	2.17	0.45
2:FC:251:ASP:H	2:FC:254:GLU:HB3	1.82	0.45
1:FD:317:PHE:CD2	1:FD:321:MET:HE1	2.51	0.45
1:FF:66:MET:SD	1:FF:151:LEU:HD22	2.57	0.45
1:FF:91:ILE:HD11	1:FF:119:VAL:HG21	1.99	0.45
1:FF:99:ASN:HD21	1:FF:178:THR:CG2	2.29	0.45
1:FF:132:GLY:HA2	1:FF:162:ARG:HB3	1.97	0.45
2:FK:93:VAL:HG12	2:FK:114:ILE:HD11	1.98	0.45
2:FK:145:THR:HG22	71:FK:501:GTP:O3B	2.17	0.45
1:GB:100:ASN:OD1	1:GB:101:TRP:N	2.50	0.45
2:GC:69:ASP:OD1	2:GC:71:GLU:HG3	2.16	0.45
1:GD:58:ARG:HG3	17:0n:332:ARG:NH2	2.31	0.45
2:GE:155:GLU:HG2	2:GE:197:HIS:ND1	2.32	0.45
1:GF:19:LYS:HB3	1:GF:19:LYS:HE2	1.73	0.45
1:GF:144:GLY:N	69:GF:500:GDP:O2B	2.43	0.45
2:GG:195:LEU:HD21	2:GG:264:ARG:HH21	1.79	0.45
2:GI:367:ASP:OD1	2:GI:368:LEU:N	2.50	0.45
1:GJ:311:LEU:HB2	1:GJ:370:ASN:O	2.17	0.45
2:HA:102:ASN:HD22	2:HA:105:ARG:CZ	2.30	0.45
1:HL:4:ILE:HB	1:HL:50:TYR:CE2	2.50	0.45
2:HM:396:ASP:OD1	2:HM:397:LEU:N	2.49	0.45
1:I:236:VAL:HG23	1:I:237:THR:HG23	1.98	0.45
1:I:284:LEU:HD23	1:I:362:LYS:HB2	1.98	0.45
2:IA:169:TYR:HA	2:IA:202:THR:HB	1.98	0.45
1:IB:217:LEU:HD13	1:IB:220:PRO:HB3	1.98	0.45
1:IB:309:ARG:NH2	1:IB:342:ILE:HG22	2.31	0.45
1:IB:327:ASP:HB3	2:IC:177:VAL:HG13	1.97	0.45
1:IJ:172:SER:HG	1:IJ:174:ARG:NH1	2.14	0.45
1:IL:180:VAL:HG12	1:IL:180:VAL:O	2.17	0.45
1:IL:203:ASP:O	1:IL:207:LEU:HD23	2.16	0.45
1:IL:211:CYS:HB3	1:IL:220:PRO:HG3	1.98	0.45
2:IM:135:PHE:CZ	2:IM:157:LEU:HD11	2.51	0.45
2:J:50:ASN:OD1	2:J:51:THR:N	2.49	0.45
1:JC:20:PHE:HE1	1:JC:234:SER:HB3	1.82	0.45
1:JE:320:ARG:NH2	19:0r:164:ASP:O	2.42	0.45
1:JI:332:ASN:HB2	1:JI:336:LYS:NZ	2.31	0.45
2:JJ:215:ARG:NH2	2:JJ:299:ALA:O	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JK:19:LYS:HA	1:JK:22:GLU:OE1	2.16	0.45
1:JK:21:TRP:CZ2	1:JK:63:ALA:HB2	2.51	0.45
2:JL:285:GLN:NE2	2:JL:287:SER:HB2	2.31	0.45
1:JM:409:THR:HG21	60:3t:41:SER:OG	2.17	0.45
2:JN:49:PHE:HD2	2:JN:53:PHE:HB2	1.82	0.45
2:JN:203:MET:N	2:JN:203:MET:HE2	2.32	0.45
2:K:109:THR:OG1	2:K:110:ILE:HD12	2.16	0.45
2:K:215:ARG:HH22	2:K:299:ALA:HB1	1.80	0.45
1:KA:102:ALA:HB2	1:KA:403:MET:HE2	1.99	0.45
2:KB:69:ASP:OD2	2:KB:71:GLU:HG3	2.17	0.45
2:KB:244:PHE:HD2	2:KB:356:ASN:HD21	1.64	0.45
2:KB:395:PHE:CD2	2:KB:422:ARG:HD3	2.52	0.45
1:KC:235:GLY:HA3	1:KC:366:THR:HG21	1.99	0.45
2:KF:408:TYR:HB3	2:KF:413:MET:HE2	1.97	0.45
2:LB:119:LEU:HD11	2:LB:156:ARG:HB3	1.98	0.45
2:LD:80:THR:HB	29:1k:213:LEU:HD23	1.98	0.45
2:LD:364:PRO:HB3	29:1k:201:TYR:CD1	2.48	0.45
1:LE:209:ASP:HB2	15:0f:268:LEU:HB3	1.98	0.45
1:LE:291:GLN:NE2	35:2N:217:GLY:HA3	2.31	0.45
2:LF:205:ASP:O	2:LF:209:ILE:HG13	2.16	0.45
2:LF:248:LEU:HB2	2:LF:355:ILE:H	1.82	0.45
2:LF:276:VAL:HB	2:LF:280:LYS:HB2	1.98	0.45
2:LF:319:TYR:HD2	2:LF:323:VAL:HG11	1.81	0.45
1:LG:213:ARG:NH2	35:2N:241:ARG:HG3	2.20	0.45
1:LG:313:ALA:HB1	1:LG:367:PHE:CE2	2.52	0.45
1:LI:206:ALA:HB2	35:2O:75:ARG:HH22	1.80	0.45
1:LI:227:HIS:NE2	23:1E:158:PRO:O	2.45	0.45
1:LM:324:LYS:CD	2:LN:222:PRO:HD2	2.47	0.45
1:LO:156:ARG:HD2	13:0a:98:THR:HG21	1.99	0.45
1:MB:262:ARG:NH2	1:MB:414:ASN:OD1	2.50	0.45
1:MB:377:MET:O	1:MB:381:VAL:HG12	2.15	0.45
2:MC:317:LEU:O	2:MC:318:MET:HE2	2.17	0.45
1:MH:2:ARG:NH1	2:MI:72:PRO:HD2	2.31	0.45
1:MH:246:LEU:HB3	1:MH:353:ILE:H	1.81	0.45
1:NB:109:GLY:O	1:NB:113:ILE:HB	2.15	0.45
2:NC:264:ARG:HG3	2:NC:264:ARG:HH11	1.82	0.45
1:NF:133:PHE:HB2	1:NF:164:MET:SD	2.56	0.45
2:NG:291:ILE:O	2:NG:295:VAL:HG23	2.17	0.45
2:NK:254:GLU:OE2	1:NL:99:ASN:ND2	2.50	0.45
1:OB:18:SER:O	1:OB:22:GLU:HG3	2.17	0.45
1:OB:282:ARG:HH22	1:OB:292:GLN:HB2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OB:398:TYR:HB3	1:OB:403:MET:HE3	1.99	0.45
2:OC:228:ASN:OD1	71:OC:501:GTP:N1	2.44	0.45
1:OD:204:ASN:OD1	69:OD:500:GDP:O2'	2.24	0.45
1:OF:286:VAL:HG11	1:OF:326:VAL:HA	1.98	0.45
1:OH:371:ASN:OD1	1:OH:372:THR:N	2.49	0.45
1:OJ:210:ILE:HG21	1:OJ:228:LEU:CD2	2.45	0.45
1:OJ:332:ASN:HB3	1:OJ:336:LYS:NZ	2.31	0.45
2:OM:212:LEU:O	2:OM:216:SER:HB3	2.17	0.45
1:P:263:LEU:HG	1:P:422:TYR:HE1	1.80	0.45
1:PD:130:LEU:O	1:PD:162:ARG:HD2	2.16	0.45
2:PE:196:GLU:HG3	2:PE:197:HIS:CD2	2.51	0.45
2:PE:267:PHE:HB3	2:PE:384:ILE:HD13	1.98	0.45
1:PH:74:ASP:OD2	39:2X:25:HIS:ND1	2.48	0.45
2:Q:322:ASP:OD2	2:Q:373:ARG:NH2	2.50	0.45
2:QB:316:CYS:SG	2:QB:318:MET:HE3	2.56	0.45
1:QC:150:LEU:O	1:QC:154:LYS:HG2	2.16	0.45
2:QH:352:LYS:HD2	2:QH:353:CYS:H	1.82	0.45
2:QJ:169:TYR:HD1	2:QJ:202:THR:HB	1.81	0.45
1:QK:61:PRO:HD3	1:QK:84:LEU:HG	1.99	0.45
1:QK:240:LEU:HD21	1:QK:249:ASP:HB2	1.99	0.45
1:QK:268:MET:O	1:QK:300:MET:HG2	2.16	0.45
1:QK:276:ARG:HD2	41:2i:397:THR:HG23	1.99	0.45
2:QL:234:VAL:O	2:QL:238:LEU:HG	2.16	0.45
2:R:174:SER:HB2	2:R:207:GLU:HG3	1.97	0.45
2:R:273:ALA:HB3	2:R:295:VAL:HB	1.99	0.45
1:RA:189:VAL:O	1:RA:193:VAL:HG23	2.16	0.45
1:RA:229:VAL:HG12	1:RA:233:MET:HE2	1.98	0.45
1:RA:362:LYS:NZ	41:2e:433:GLU:OE1	2.42	0.45
1:RC:11:GLN:HB3	69:RC:500:GDP:O1A	2.17	0.45
1:RE:301:GLN:NE2	1:RE:377:MET:SD	2.89	0.45
2:RF:234:VAL:HG13	2:RF:376:CYS:SG	2.57	0.45
2:RF:320:ARG:O	2:RF:373:ARG:HA	2.16	0.45
2:RJ:295:VAL:HG21	2:RJ:375:VAL:HG13	1.99	0.45
2:RL:102:ASN:HB3	2:RL:105:ARG:HB3	1.97	0.45
2:RL:275:VAL:HG23	2:RL:368:LEU:HD11	1.98	0.45
1:S:170:ILE:HG13	1:S:171:PRO:HD2	1.99	0.45
1:SF:275:SER:O	1:SF:279:GLN:HG3	2.17	0.45
1:SF:304:ASP:OD1	1:SF:306:ARG:HB2	2.17	0.45
1:SF:364:SER:OG	1:SF:365:VAL:N	2.50	0.45
2:SG:259:LEU:HD21	2:SG:268:VAL:HG11	1.99	0.45
2:SI:227:VAL:O	2:SI:231:ILE:HG12	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SK:8:HIS:HE1	2:SK:21:TRP:HE1	1.63	0.45
1:T:68:LEU:HB3	1:T:96:GLY:HA2	1.97	0.45
1:T:267:MET:HE2	1:T:371:ASN:HB3	1.97	0.45
1:T:289:LEU:HD11	1:T:363:MET:HB3	1.98	0.45
2:TA:225:THR:OG1	21:0w:424:ALA:HB1	2.17	0.45
2:TE:295:VAL:HG11	2:TE:377:MET:HB2	1.97	0.45
1:TF:170:ILE:HG12	1:TF:202:ILE:O	2.16	0.45
2:TG:204:LEU:HD22	2:TG:231:ILE:HG12	1.97	0.45
1:U:200:MET:HE1	1:U:268:MET:HG2	1.99	0.45
2:UA:102:ASN:HB3	2:UA:105:ARG:HB3	1.98	0.45
1:UB:122:LYS:HA	1:UB:122:LYS:HD2	1.61	0.45
1:UD:257:LEU:HB3	1:UD:266:PHE:CE1	2.52	0.45
2:UE:195:LEU:HD21	2:UE:428:LEU:HD21	1.98	0.45
2:UI:229:ARG:HH11	2:UI:363:VAL:HG21	1.81	0.45
2:UI:253:THR:HA	2:UI:256:GLN:HG3	1.97	0.45
2:VA:252:LEU:HA	2:VA:255:PHE:CE1	2.51	0.45
1:VD:263:LEU:HD22	1:VD:422:TYR:CE1	2.51	0.45
2:VG:89:PRO:HG2	2:WG:280:LYS:HG2	1.99	0.45
1:VH:252:LYS:HG3	2:VI:101:ASN:HB2	1.99	0.45
2:VI:70:LEU:HD22	2:VI:110:ILE:HG22	1.99	0.45
1:W:198:GLU:HA	1:W:264:HIS:HB2	1.99	0.45
2:WC:90:GLU:CD	2:WC:91:GLN:HG3	2.42	0.45
1:WD:190:HIS:HB2	1:WD:414:ASN:HD22	1.81	0.45
1:WF:36:TYR:OH	1:WF:40:SER:O	2.35	0.45
2:WG:175:PRO:HG2	2:WG:207:GLU:OE2	2.16	0.45
3:XB:84:LYS:NZ	3:XB:127:GLU:HG3	2.31	0.45
3:XC:177:LEU:O	3:XC:182:LYS:NZ	2.50	0.45
4:XQ:162:PHE:HB3	4:XQ:181:CYS:SG	2.57	0.45
4:XQ:196:ILE:O	4:XQ:200:ILE:HG12	2.16	0.45
4:XR:203:ILE:HD13	4:XR:222:LEU:HD13	1.99	0.45
8:0G:357:LEU:HD11	8:0G:361:ARG:HH21	1.81	0.45
9:0O:283:VAL:HB	9:0O:307:TYR:HE2	1.81	0.45
17:0n:97:VAL:O	17:0n:100:ARG:HG3	2.16	0.45
18:0p:216:ARG:O	18:0p:220:LEU:HD23	2.17	0.45
19:0r:68:PRO:HB3	19:0r:80:ASP:OD2	2.17	0.45
24:1I:258:ASP:HB3	24:1I:384:ALA:HB1	1.98	0.45
26:1Q:457:VAL:HG11	26:1Q:500:TYR:CE2	2.51	0.45
27:1S:748:LYS:C	27:1S:752:MET:HE3	2.42	0.45
27:1T:689:SER:O	27:1T:693:MET:HG2	2.16	0.45
28:1X:172:ASP:N	28:1X:172:ASP:OD1	2.50	0.45
28:1g:237:PRO:O	28:1g:241:VAL:HG23	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:1x:233:ASP:N	22:1x:233:ASP:OD1	2.48	0.45
33:2H:190:PRO:HB2	33:2H:260:LEU:HD12	1.98	0.45
35:2O:38:THR:O	35:2O:45:HIS:NE2	2.45	0.45
36:2Q:251:ARG:HA	36:2Q:254:VAL:HG12	1.98	0.45
40:2Z:337:ARG:NH2	40:2Z:341:MET:SD	2.89	0.45
41:2o:156:LEU:HB3	41:2p:482:ARG:NH2	2.31	0.45
44:2v:197:TYR:CG	44:2v:213:MET:HB2	2.52	0.45
44:2w:47:ARG:HG2	44:2w:48:TRP:CE2	2.52	0.45
44:2w:384:GLY:O	44:2w:388:ILE:HG23	2.16	0.45
45:2z:151:THR:O	45:2z:155:ILE:HG23	2.17	0.45
48:3F:205:GLU:C	48:3F:209:LYS:HZ2	2.25	0.45
55:3b:178:ASN:HD21	61:3w:209:PHE:N	2.14	0.45
57:3i:83:GLU:HB3	57:3i:87:LYS:HZ1	1.79	0.45
2:AA:181:VAL:HG23	2:AA:182:VAL:HG23	1.98	0.45
1:AB:12:CYS:O	1:AB:16:ILE:HD12	2.17	0.45
1:AB:51:PHE:HB3	1:AB:59:TYR:HB3	1.99	0.45
2:AE:269:LEU:HD22	2:AE:384:ILE:HD11	1.98	0.45
1:AF:164:MET:HE2	1:AF:164:MET:HB2	1.89	0.45
2:AG:9:ILE:HB	2:AG:139:HIS:HB3	1.99	0.45
1:AH:133:PHE:CG	1:AH:155:LEU:HD23	2.52	0.45
1:AH:209:ASP:O	1:AH:213:ARG:HG2	2.17	0.45
1:AH:247:ASN:N	2:AI:11:GLN:HE22	2.14	0.45
2:AI:152:LEU:O	2:AI:156:ARG:HG2	2.17	0.45
2:AK:170:THR:HG21	2:AK:194:LEU:HD21	1.99	0.45
1:AL:178:THR:OG1	1:AL:181:GLU:OE2	2.23	0.45
1:B:238:CYS:CB	1:B:318:ARG:HD3	2.46	0.45
2:BC:317:LEU:HB3	2:BC:319:TYR:CE1	2.51	0.45
1:BD:107:THR:O	1:BD:111:GLU:OE1	2.34	0.45
1:BF:53:GLU:HB3	16:0k:161:ARG:HH12	1.81	0.45
1:BF:325:GLU:OE1	2:BG:221:ARG:HD3	2.17	0.45
1:BH:373:CYS:O	1:BH:376:GLU:HG2	2.16	0.45
2:BI:326:LYS:HZ3	1:BJ:220:PRO:HG2	1.82	0.45
1:BJ:102:ALA:HB2	1:BJ:403:MET:HE2	1.98	0.45
1:BJ:334:GLN:HE22	1:BJ:348:ASN:N	2.15	0.45
2:BM:167:LEU:HD23	2:BM:200:VAL:HB	1.98	0.45
1:BN:257:LEU:HD21	1:BN:314:SER:OG	2.16	0.45
2:C:93:VAL:HG11	2:C:117:LEU:HD11	1.97	0.45
2:C:271:SER:HB3	2:C:301:MET:HA	1.99	0.45
1:CC:252:LYS:HE3	2:CD:101:ASN:HD21	1.81	0.45
2:CD:93:VAL:HG11	2:CD:114:ILE:HD11	1.99	0.45
2:CD:139:HIS:O	2:CD:170:THR:HA	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CD:202:THR:HG23	2:CD:270:THR:HG21	1.99	0.45
2:CD:419:SER:O	2:CD:423:GLU:OE1	2.34	0.45
1:CE:21:TRP:CZ3	1:CE:50:TYR:HB3	2.52	0.45
1:CE:226:ASN:CG	69:CE:500:GDP:HN1	2.24	0.45
1:CG:151:LEU:HG	1:CG:155:LEU:HD13	1.98	0.45
1:CI:165:MET:HE2	1:CI:198:GLU:OE2	2.16	0.45
1:CI:252:LYS:HD3	2:CJ:100:ALA:HA	1.98	0.45
1:CK:330:MET:SD	1:CK:349:ILE:HG21	2.57	0.45
2:D:153:LEU:O	2:D:157:LEU:HD23	2.16	0.45
1:DC:273:LEU:H	1:DC:282:ARG:HH12	1.65	0.45
2:DD:151:ALA:O	2:DD:155:GLU:OE1	2.34	0.45
1:DG:323:THR:HG21	2:DH:224:TYR:CE1	2.52	0.45
1:E:344:TRP:CG	2:EA:401:LYS:HD2	2.52	0.45
2:EA:268:VAL:HG23	2:EA:378:ILE:HD11	1.99	0.45
2:EE:274:PRO:HG2	2:EE:371:VAL:HG21	1.99	0.45
1:EF:207:LEU:HD22	1:EF:300:MET:HB2	1.98	0.45
1:EF:333:VAL:HA	1:EF:336:LYS:HE3	1.99	0.45
2:EI:211:ASP:HA	2:EI:214:ARG:HG2	1.98	0.45
2:EK:326:LYS:HD3	1:EL:212:PHE:CZ	2.52	0.45
1:EL:256:ASN:OD1	1:EL:350:LYS:HG3	2.16	0.45
2:FC:21:TRP:CZ2	2:FC:65:CYS:HB3	2.52	0.45
2:FC:99:ALA:HA	2:FC:105:ARG:HG2	1.97	0.45
1:FD:350:LYS:HG2	2:FE:179:THR:O	2.16	0.45
1:FD:389:PHE:CZ	1:FD:405:GLU:HG3	2.51	0.45
2:FE:431:ASP:OD1	2:FE:432:TYR:N	2.50	0.45
2:GA:204:LEU:HD13	2:GA:231:ILE:HG23	1.98	0.45
2:GA:312:TYR:CE2	2:GA:341:ILE:HD12	2.52	0.45
1:GB:246:LEU:HD11	71:GC:501:GTP:H5"	1.99	0.45
2:GC:9:ILE:HG13	2:GC:68:LEU:HB2	1.99	0.45
2:GE:7:ILE:HG22	2:GE:9:ILE:HG13	1.97	0.45
2:GE:258:ASN:HD21	1:GF:99:ASN:HD22	1.65	0.45
1:GF:347:ASN:HD22	1:GF:347:ASN:C	2.24	0.45
2:GG:132:LEU:HG	2:GG:164:LYS:HD3	1.99	0.45
2:GG:175:PRO:HB3	2:GG:390:ARG:CZ	2.47	0.45
2:GI:104:ALA:HB2	2:GI:413:MET:HE2	1.99	0.45
1:GL:185:THR:O	1:GL:189:VAL:HG13	2.16	0.45
1:GL:292:GLN:HG2	1:GL:298:ASN:ND2	2.32	0.45
1:GL:320:ARG:HH12	1:GL:355:ASP:HA	1.81	0.45
1:H:87:PRO:HG2	1:I:278:SER:HA	1.98	0.45
1:H:210:ILE:HG22	1:H:297:LYS:O	2.15	0.45
2:HA:271:SER:OG	2:HA:377:MET:HB3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HA:329:ASN:HD22	1:HB:208:TYR:HD2	1.63	0.45
2:HA:392:ASP:OD1	2:HA:393:HIS:N	2.49	0.45
1:HB:113:ILE:HG12	1:HB:150:LEU:HG	1.97	0.45
1:HB:257:LEU:HB3	1:HB:266:PHE:CE1	2.52	0.45
2:HC:120:ASP:O	2:HC:123:ARG:HG3	2.17	0.45
1:HD:330:MET:HE2	1:HD:349:ILE:CG2	2.45	0.45
2:HE:295:VAL:HG11	2:HE:377:MET:HB2	1.98	0.45
2:HG:188:VAL:O	2:HG:191:THR:OG1	2.34	0.45
1:HL:207:LEU:HD13	1:HL:228:LEU:HD23	1.98	0.45
2:HM:212:LEU:O	2:HM:216:SER:OG	2.30	0.45
1:I:218:THR:H	7:0C:267:GLN:NE2	2.14	0.45
2:IC:427:ALA:HA	2:IC:430:LYS:HG2	1.99	0.45
2:IE:362:VAL:HG22	2:IE:370:LYS:HB3	1.99	0.45
1:IF:286:VAL:HG21	1:IF:325:GLU:HG3	1.97	0.45
1:IF:324:LYS:HZ1	2:IG:221:ARG:C	2.25	0.45
2:IG:296:PHE:HZ	2:IG:351:PHE:HE1	1.63	0.45
2:II:51:THR:HG23	2:II:52:PHE:HD2	1.81	0.45
2:II:373:ARG:HH21	7:0D:193:SER:HB2	1.81	0.45
1:IJ:32:PRO:HB2	12:0W:73:LYS:HE3	1.97	0.45
1:IJ:53:GLU:OE2	49:3Q:10:SER:N	2.31	0.45
1:IJ:323:THR:HG21	2:IK:224:TYR:CZ	2.52	0.45
2:IM:331:ALA:O	2:IM:335:ILE:HG12	2.16	0.45
2:J:107:HIS:HB3	2:J:108:TYR:CD1	2.51	0.45
1:JA:207:LEU:HB3	1:JA:225:LEU:HD22	1.97	0.45
2:JB:195:LEU:HD21	2:JB:264:ARG:HE	1.82	0.45
1:JC:46:ARG:HA	1:JC:46:ARG:HD3	1.85	0.45
1:JC:66:MET:HG2	1:JC:147:MET:HE3	1.98	0.45
1:JC:253:LEU:HD21	1:JC:316:LEU:HD21	1.98	0.45
2:JD:258:ASN:ND2	1:JE:178:THR:HG23	2.31	0.45
2:JD:316:CYS:SG	2:JD:318:MET:HE3	2.56	0.45
2:JF:81:GLY:HA3	19:0r:167:TYR:HE1	1.82	0.45
2:JF:251:ASP:H	2:JF:254:GLU:CB	2.29	0.45
1:JG:178:THR:HG22	1:JG:180:VAL:H	1.81	0.45
2:JH:227:VAL:O	2:JH:231:ILE:HG12	2.17	0.45
2:JJ:195:LEU:HA	2:JJ:266:HIS:CE1	2.51	0.45
1:JK:379:ARG:HG2	1:JK:383:GLU:OE2	2.17	0.45
2:KB:79:ARG:O	2:KB:84:ARG:HG2	2.17	0.45
2:KD:2:ARG:NH2	15:0f:252:VAL:HG22	2.31	0.45
2:KD:188:VAL:O	2:KD:191:THR:HG22	2.16	0.45
2:KD:425:LEU:O	2:KD:429:GLU:HG2	2.16	0.45
1:KE:86:ARG:HG2	1:LE:281:TYR:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KE:304:ASP:HB3	1:KE:307:HIS:ND1	2.32	0.45
1:KE:331:LEU:HD13	2:KF:176:GLN:HB3	1.98	0.45
2:KJ:36:MET:HE3	2:KJ:61:HIS:NE2	2.31	0.45
1:KK:289:LEU:HD11	1:KK:363:MET:HG3	1.98	0.45
2:L:326:LYS:HD3	2:L:326:LYS:HA	1.36	0.45
1:LA:345:ILE:HG23	1:LA:348:ASN:ND2	2.31	0.45
2:LD:295:VAL:HG21	2:LD:375:VAL:HG13	1.99	0.45
1:LG:290:THR:HB	1:LG:329:GLN:HE21	1.82	0.45
1:LK:105:HIS:ND1	1:LK:146:GLY:O	2.41	0.45
1:LM:389:PHE:HZ	1:LM:405:GLU:HG3	1.81	0.45
2:LN:68:LEU:HD13	2:LN:149:LEU:HD21	1.99	0.45
2:LN:113:GLU:HG3	33:2I:174:PRO:HG2	1.98	0.45
2:LN:326:LYS:HE3	1:LO:208:TYR:CG	2.51	0.45
1:LO:91:ILE:HD13	1:LO:116:VAL:HA	1.98	0.45
1:M:240:LEU:HD21	1:M:249:ASP:HB2	1.99	0.45
1:M:361:LEU:HA	23:1A:265:GLU:OE1	2.17	0.45
2:MA:209:ILE:HG12	2:MA:302:LEU:HD23	1.98	0.45
1:MB:313:ALA:HB1	1:MB:367:PHE:HE1	1.82	0.45
2:MC:301:MET:HE3	2:MC:301:MET:HB3	1.83	0.45
2:ME:117:LEU:O	2:ME:121:ARG:HG2	2.17	0.45
2:ME:223:SER:OG	2:ME:224:TYR:N	2.49	0.45
2:ME:410:GLY:HA2	32:2B:21:LEU:HD11	1.97	0.45
1:MF:145:SER:HB2	1:MF:188:SER:OG	2.16	0.45
2:MG:52:PHE:HE2	2:MG:243:ARG:HH11	1.65	0.45
2:MI:138:PHE:CE2	2:MI:235:VAL:HG21	2.52	0.45
2:MI:225:THR:HG21	40:2Z:348:THR:HG21	1.97	0.45
1:MJ:170:ILE:HG13	1:MJ:201:CYS:HB3	1.98	0.45
1:MN:165:MET:HE2	1:MN:167:PHE:CZ	2.52	0.45
1:N:165:MET:HE1	1:N:200:MET:HE1	1.99	0.45
1:NF:206:ALA:HB2	1:NF:302:ALA:HB2	1.99	0.45
2:NG:1:MET:N	2:NG:3:GLU:OE2	2.39	0.45
2:NG:155:GLU:HG2	2:NG:197:HIS:CE1	2.51	0.45
2:NK:105:ARG:HE	2:NK:411:GLU:CD	2.24	0.45
1:NL:58:ARG:NH2	1:OL:280:GLN:OE1	2.50	0.45
1:NL:139:LEU:HD13	1:NL:168:SER:HB3	1.98	0.45
2:NM:238:LEU:HA	2:NM:318:MET:CE	2.43	0.45
2:NM:279:GLU:O	2:NM:283:HIS:ND1	2.46	0.45
1:O:271:ALA:HB1	1:O:292:GLN:NE2	2.31	0.45
2:OA:2:ARG:O	2:OA:51:THR:OG1	2.29	0.45
2:OA:271:SER:H	2:OA:377:MET:HB2	1.81	0.45
2:OC:326:LYS:HZ3	1:OD:220:PRO:HD2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OD:263:LEU:HD11	1:OD:425:TYR:CD2	2.44	0.45
2:OE:127:ASP:OD1	2:OE:128:ASN:N	2.49	0.45
1:OF:313:ALA:HB1	1:OF:367:PHE:CE1	2.51	0.45
2:OI:66:LEU:HD13	2:OI:122:ILE:HG12	1.99	0.45
1:OJ:11:GLN:O	1:OJ:15:GLN:HG2	2.17	0.45
1:OJ:323:THR:HG23	1:OJ:324:LYS:HD3	1.98	0.45
1:OJ:385:PHE:HE2	1:OJ:412:GLU:HB2	1.81	0.45
1:OL:65:LEU:HB2	1:OL:90:PHE:HD1	1.80	0.45
1:OL:280:GLN:HG2	41:2o:165:ARG:NH1	2.32	0.45
2:OM:60:LYS:HD3	2:PM:282:TYR:HD2	1.82	0.45
1:P:193:VAL:HG11	1:P:262:ARG:NH2	2.32	0.45
1:P:347:ASN:HD22	2:PA:178:SER:H	1.64	0.45
2:PA:104:ALA:O	2:PA:108:TYR:HB2	2.17	0.45
2:PC:70:LEU:HD12	2:PC:99:ALA:HB2	1.98	0.45
1:PD:350:LYS:HA	2:PE:179:THR:O	2.15	0.45
1:PF:347:ASN:ND2	2:PG:180:ALA:O	2.45	0.45
1:PH:345:ILE:HG13	1:PH:348:ASN:ND2	2.31	0.45
1:PH:395:LEU:HD21	58:3m:25:ARG:CZ	2.47	0.45
2:PI:269:LEU:O	2:PI:378:ILE:HD12	2.15	0.45
1:PJ:257:LEU:HD13	1:PJ:368:ILE:HG21	1.98	0.45
1:PJ:332:ASN:OD1	1:PJ:336:LYS:HE2	2.16	0.45
1:PL:73:MET:HB3	1:PL:77:ARG:HH12	1.82	0.45
2:Q:250:VAL:HG21	2:Q:318:MET:HE1	1.99	0.45
1:QC:342:ILE:HD11	1:QC:345:ILE:HD12	1.98	0.45
2:QD:127:ASP:OD1	2:QD:128:ASN:N	2.49	0.45
2:QD:213:THR:HG23	2:QD:217:LEU:HD12	1.98	0.45
1:QG:167:PHE:CE2	1:QG:233:MET:HG2	2.52	0.45
1:QG:286:VAL:HG11	1:QG:325:GLU:HG2	1.96	0.45
1:QI:140:GLY:HA3	1:QI:181:GLU:HG3	1.99	0.45
2:QJ:316:CYS:HB3	2:QJ:378:ILE:HG22	1.98	0.45
2:R:176:GLN:HB3	2:R:207:GLU:OE2	2.16	0.45
1:RA:344:TRP:CG	2:RB:401:LYS:HZ3	2.35	0.45
1:RE:175:VAL:HG11	1:RE:208:TYR:HE2	1.81	0.45
2:RH:338:LYS:HG2	2:RH:340:THR:HG22	1.98	0.45
2:RL:167:LEU:HD21	2:RL:255:PHE:CE1	2.52	0.45
2:SE:434:GLU:HG2	58:3m:141:ALA:HB1	1.99	0.45
1:SF:173:PRO:HD3	1:SF:380:ARG:CZ	2.46	0.45
1:SJ:66:MET:SD	1:SJ:151:LEU:HD22	2.56	0.45
2:TE:216:SER:O	2:TE:280:LYS:NZ	2.23	0.45
2:TE:291:ILE:O	2:TE:295:VAL:HG23	2.16	0.45
1:TF:21:TRP:CZ3	1:TF:50:TYR:HB3	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TF:62:ARG:NH1	1:TF:127:CYS:SG	2.89	0.45
2:TG:291:ILE:O	2:TG:295:VAL:HG23	2.16	0.45
2:TG:358:GLN:HA	2:TG:358:GLN:OE1	2.16	0.45
2:TG:387:VAL:O	2:TG:391:ILE:HG12	2.17	0.45
1:TH:65:LEU:HD22	1:TH:90:PHE:CE2	2.51	0.45
2:TK:422:ARG:HA	2:TK:422:ARG:HD2	1.72	0.45
1:U:193:VAL:HG12	1:U:265:PHE:HE1	1.82	0.45
1:UB:309:ARG:NH2	1:UB:341:PHE:O	2.49	0.45
2:UC:224:TYR:HA	2:UC:227:VAL:HG22	1.98	0.45
1:UD:156:ARG:HH22	1:UD:197:ASP:CG	2.24	0.45
2:UE:212:LEU:HD21	2:UE:275:VAL:HG21	1.98	0.45
1:UH:91:ILE:HD11	1:UH:119:VAL:HG21	1.98	0.45
1:UH:309:ARG:NH1	1:UH:339:SER:O	2.50	0.45
2:UI:111:GLY:HA2	2:UI:114:ILE:HG22	1.98	0.45
2:UI:326:LYS:HG3	1:UJ:220:PRO:HD2	1.98	0.45
1:V:137:HIS:NE2	1:V:166:THR:OG1	2.46	0.45
2:VA:31:GLN:HG2	2:VA:37:PRO:HD3	1.98	0.45
2:VA:208:ALA:HB2	2:VA:304:LYS:HG2	1.98	0.45
2:VA:265:ILE:HG23	2:VA:432:TYR:HE1	1.82	0.45
1:VB:67:ASP:N	1:VB:67:ASP:OD1	2.47	0.45
1:VD:31:ASP:OD2	1:VD:35:THR:OG1	2.35	0.45
2:VI:60:LYS:HZ1	2:WI:283:HIS:CE1	2.35	0.45
2:VI:205:ASP:OD2	2:VI:303:THR:HA	2.16	0.45
2:VK:152:LEU:O	2:VK:156:ARG:HG2	2.16	0.45
2:VK:318:MET:HA	2:VK:354:GLY:O	2.17	0.45
1:VL:236:VAL:HA	1:VL:316:LEU:HD13	1.98	0.45
2:VM:21:TRP:CZ2	2:VM:65:CYS:HB3	2.52	0.45
1:W:42:LEU:HD22	1:W:356:ILE:HD11	1.98	0.45
1:WB:3:GLU:CD	1:WB:127:CYS:HB2	2.41	0.45
1:WB:311:LEU:HB2	1:WB:370:ASN:O	2.16	0.45
1:WD:152:ILE:HG22	1:WD:195:ASN:HB3	1.99	0.45
1:WD:209:ASP:OD1	1:WD:297:LYS:NZ	2.36	0.45
2:WE:39:ASP:OD2	9:0M:230:GLN:NE2	2.48	0.45
2:WE:101:ASN:ND2	2:WE:143:GLY:HA2	2.32	0.45
1:WH:61:PRO:HD3	1:WH:84:LEU:HG	1.98	0.45
1:WH:290:THR:HA	1:WH:293:MET:HG2	1.97	0.45
1:WJ:260:PHE:HD2	1:WJ:263:LEU:HD12	1.81	0.45
1:WJ:323:THR:HG22	2:WK:223:SER:HA	1.98	0.45
2:WK:395:PHE:HD2	2:WK:422:ARG:HD3	1.82	0.45
2:WM:11:GLN:O	2:WM:15:GLN:HG3	2.16	0.45
5:XN:46:LYS:HE2	9:0L:398:GLY:HA3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:XO:22:TYR:CE2	4:XO:115:LYS:HE3	2.52	0.45
5:XP:181:PRO:HB2	5:XP:185:LEU:HD23	1.99	0.45
7:0D:65:ARG:HG3	7:0D:65:ARG:HH11	1.82	0.45
8:0J:472:ARG:O	8:0J:476:LEU:HD23	2.16	0.45
9:0L:485:SER:OG	9:0L:486:ASP:N	2.50	0.45
9:0M:492:VAL:HG13	9:0M:501:ARG:HB3	1.99	0.45
9:0O:117:SER:HB2	9:0O:122:TYR:HB3	1.99	0.45
16:0l:579:LEU:HD21	16:0l:587:LEU:HD12	1.98	0.45
16:0k:419:ARG:HH21	16:0k:477:TYR:HE2	1.63	0.45
16:0k:900:ILE:HG21	16:0k:966:PHE:HZ	1.82	0.45
20:0t:231:PHE:HD1	20:0t:240:GLU:HG2	1.82	0.45
23:1E:94:LEU:HB3	45:2z:75:ILE:CD1	2.45	0.45
24:1H:674:MET:HA	24:1H:674:MET:HE2	1.98	0.45
24:1I:563:MET:HE1	24:1I:582:ILE:HB	1.98	0.45
26:1Q:79:TRP:CE2	26:1Q:85:LYS:HD3	2.51	0.45
33:2H:225:THR:HG22	33:2H:227:HIS:H	1.81	0.45
33:2I:266:SER:HG	33:2I:270:THR:HG1	1.63	0.45
34:2L:124:ARG:O	34:2L:128:THR:HG22	2.16	0.45
36:2Q:178:VAL:HG11	36:2Q:195:PHE:CD1	2.52	0.45
38:2U:176:ARG:NH1	38:2U:182:ILE:HA	2.32	0.45
40:2Z:125:LYS:HE3	40:2Z:125:LYS:HB3	1.80	0.45
41:2c:430:ASN:OD1	41:2c:431:TYR:N	2.50	0.45
44:2v:183:ASN:OD1	44:2v:185:SER:OG	2.32	0.45
46:3B:135:ASP:OD2	46:3B:185:LYS:NZ	2.50	0.45
48:3F:38:ARG:HE	48:3F:39:PRO:HD2	1.81	0.45
48:3F:217:GLN:O	48:3F:220:LYS:HG3	2.16	0.45
49:3Q:359:LEU:HD23	52:3U:400:LEU:HD21	1.97	0.45
64:5C:160:LEU:HD23	64:5C:160:LEU:C	2.42	0.45
1:A:45:GLU:HG2	1:A:46:ARG:HG2	1.98	0.45
1:AD:379:ARG:HG3	1:AD:379:ARG:HH11	1.81	0.45
1:AF:41:ASP:CG	54:3Z:441:LYS:HZ1	2.24	0.45
2:AG:53:PHE:HB3	2:AG:61:HIS:HB3	1.99	0.45
2:AG:97:GLU:CD	2:AG:105:ARG:HH12	2.24	0.45
2:AI:195:LEU:HD22	2:AI:267:PHE:HZ	1.81	0.45
1:AJ:203:ASP:CB	1:AJ:301:GLN:HA	2.45	0.45
2:BA:1:MET:SD	1:BB:94:GLN:NE2	2.71	0.45
2:BC:398:MET:HE3	2:BC:398:MET:HB3	1.85	0.45
1:BH:379:ARG:O	1:BH:383:GLU:OE1	2.35	0.45
1:BH:399:THR:HA	1:BH:403:MET:O	2.17	0.45
2:BK:225:THR:HG22	2:BK:229:ARG:HE	1.82	0.45
1:BL:330:MET:SD	1:BL:349:ILE:HG21	2.57	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BM:268:VAL:HG23	2:BM:378:ILE:HD11	1.98	0.45
1:BN:19:LYS:NZ	1:BN:227:HIS:HB2	2.32	0.45
1:CA:362:LYS:HZ3	16:0k:660:LEU:HD13	1.82	0.45
2:CD:367:ASP:HA	16:0k:441:ARG:NH1	2.31	0.45
2:CH:70:LEU:HD21	2:CH:114:ILE:HG21	1.99	0.45
2:CJ:134:GLY:HA3	2:CJ:165:SER:HB3	1.97	0.45
1:CK:323:THR:HG21	2:CL:224:TYR:CE1	2.51	0.45
2:D:262:TYR:OH	1:DA:391:ARG:O	2.26	0.45
1:DA:2:ARG:N	1:DA:129:CYS:O	2.50	0.45
2:DB:91:GLN:HG2	2:DB:125:LEU:HD11	1.99	0.45
2:DD:156:ARG:HD2	2:DD:156:ARG:HA	1.80	0.45
2:DF:2:ARG:HB2	2:DF:2:ARG:NH1	2.31	0.45
2:DH:259:LEU:HD21	2:DH:316:CYS:HB2	1.98	0.45
2:DH:328:VAL:O	2:DH:332:ILE:HG12	2.17	0.45
1:DI:203:ASP:OD2	1:DI:302:ALA:N	2.41	0.45
2:DJ:6:CYS:O	2:DJ:65:CYS:HA	2.17	0.45
1:DK:280:GLN:NE2	24:1J:267:LEU:O	2.49	0.45
2:EC:26:LEU:CD2	2:EC:364:PRO:HD3	2.46	0.45
2:EC:402:ARG:HG3	2:EC:402:ARG:HH11	1.82	0.45
1:EF:145:SER:HB2	1:EF:188:SER:OG	2.17	0.45
1:EH:188:SER:O	1:EH:192:LEU:HD23	2.16	0.45
1:EJ:208:TYR:CE2	1:EJ:225:LEU:HD22	2.52	0.45
2:EK:260:VAL:HG13	1:EL:397:TRP:CH2	2.51	0.45
2:EK:419:SER:O	2:EK:423:GLU:OE1	2.35	0.45
1:EL:330:MET:SD	1:EL:349:ILE:HG21	2.57	0.45
1:FB:177:ASP:OD2	69:FB:500:GDP:H3'	2.17	0.45
1:FD:406:MET:HE3	1:FD:406:MET:O	2.16	0.45
2:FI:101:ASN:ND2	2:FI:143:GLY:HA2	2.32	0.45
2:FI:256:GLN:HE21	1:FJ:397:TRP:HH2	1.63	0.45
1:FJ:27:GLU:OE2	1:FJ:241:ARG:NH2	2.40	0.45
2:FK:234:VAL:HG21	2:FK:302:LEU:HD21	1.97	0.45
1:FL:139:LEU:CD2	1:FL:168:SER:HB2	2.45	0.45
1:G:180:VAL:HG13	1:G:184:ASN:OD1	2.16	0.45
1:G:286:VAL:HA	1:G:289:LEU:HD12	1.98	0.45
1:G:344:TRP:HB3	1:G:430:VAL:HG12	1.97	0.45
2:GA:104:ALA:HA	2:GA:413:MET:HE3	1.98	0.45
1:GB:268:MET:O	1:GB:300:MET:HG2	2.17	0.45
1:GD:163:ILE:HG12	1:GD:251:ARG:HB3	1.98	0.45
2:GE:223:SER:OG	2:GE:224:TYR:N	2.50	0.45
1:GF:210:ILE:O	1:GF:214:THR:HB	2.17	0.45
2:GG:392:ASP:OD2	2:GG:422:ARG:NH2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GH:267:MET:HB2	1:GH:301:GLN:HB3	1.99	0.45
2:GI:155:GLU:HG3	2:GI:197:HIS:CE1	2.51	0.45
2:GI:234:VAL:HG13	2:GI:376:CYS:SG	2.57	0.45
1:GJ:190:HIS:HB2	1:GJ:414:ASN:ND2	2.32	0.45
1:GL:324:LYS:O	1:GL:325:GLU:C	2.59	0.45
1:HB:34:GLY:HA3	1:HB:58:ARG:HG3	1.98	0.45
1:HB:139:LEU:HD12	1:HB:170:ILE:HG13	1.97	0.45
1:HD:421:GLU:O	1:HD:424:GLN:HG3	2.17	0.45
2:HE:169:TYR:HB3	2:HE:204:LEU:HD11	1.99	0.45
2:HG:210:TYR:HE2	2:HG:227:VAL:HG21	1.82	0.45
2:HG:262:TYR:HB2	2:HG:265:ILE:HG12	1.98	0.45
1:HJ:167:PHE:CE1	1:HJ:233:MET:HG2	2.52	0.45
1:HJ:375:GLN:HE22	1:HJ:379:ARG:HH22	1.64	0.45
2:HK:223:SER:OG	2:HK:224:TYR:N	2.49	0.45
1:HL:66:MET:HE1	1:HL:151:LEU:HD22	1.99	0.45
1:IB:26:ASP:OD2	1:IB:359:LYS:NZ	2.42	0.45
1:IB:63:ALA:O	1:IB:89:ASN:ND2	2.36	0.45
2:IC:352:LYS:HD2	2:IC:353:CYS:N	2.32	0.45
2:IE:254:GLU:HG3	2:IE:352:LYS:NZ	2.31	0.45
1:IF:282:ARG:HE	1:IF:283:GLY:H	1.63	0.45
2:II:39:ASP:HA	12:0W:83:GLU:OE2	2.17	0.45
2:II:142:GLY:CA	2:II:183:GLU:HG3	2.46	0.45
2:IK:320:ARG:HD3	2:IK:360:PRO:HG3	1.97	0.45
2:IK:388:PHE:HA	2:IK:391:ILE:HG22	1.98	0.45
2:J:185:TYR:CD2	2:J:398:MET:HE1	2.52	0.45
1:JA:91:ILE:HG12	1:JA:112:LEU:HD21	1.98	0.45
1:JA:91:ILE:HG21	1:JA:116:VAL:HG22	1.98	0.45
1:JC:97:ALA:HB2	1:JC:143:THR:HB	1.97	0.45
2:JD:9:ILE:HB	2:JD:139:HIS:HB3	1.99	0.45
2:JD:396:ASP:CG	2:JD:422:ARG:HE	2.25	0.45
1:JE:58:ARG:HE	1:JE:58:ARG:HB3	1.63	0.45
1:JE:263:LEU:HD11	1:JE:425:TYR:CD2	2.51	0.45
1:JG:301:GLN:NE2	1:JG:303:ALA:H	2.14	0.45
2:JJ:258:ASN:HD21	1:JK:99:ASN:HD22	1.63	0.45
1:JK:91:ILE:HD11	1:JK:119:VAL:HG21	1.99	0.45
2:JN:139:HIS:CE1	2:JN:170:THR:HG22	2.52	0.45
2:JN:296:PHE:CZ	2:JN:317:LEU:HD21	2.51	0.45
2:K:136:MET:HE1	2:K:235:VAL:HG13	1.97	0.45
2:K:169:TYR:HD1	2:K:202:THR:HB	1.82	0.45
1:KA:73:MET:HB3	1:KA:90:PHE:HD2	1.81	0.45
1:KA:317:PHE:CD2	1:KA:321:MET:HE1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KC:19:LYS:O	1:KC:22:GLU:HB3	2.17	0.45
2:KJ:250:VAL:HG11	2:KJ:352:LYS:HE2	1.99	0.45
2:KL:109:THR:OG1	2:KL:110:ILE:HD12	2.16	0.45
2:KL:137:VAL:HG11	2:KL:154:LEU:HD11	1.98	0.45
2:KL:413:MET:SD	2:KL:417:GLU:HG2	2.57	0.45
1:KM:296:ALA:HB2	1:KM:306:ARG:NH1	2.28	0.45
2:L:19:ALA:HA	2:L:22:GLU:HG2	1.98	0.45
1:LA:156:ARG:HD3	1:LA:156:ARG:O	2.16	0.45
2:LB:113:GLU:N	2:LB:113:GLU:OE1	2.50	0.45
2:LB:212:LEU:HD21	2:LB:275:VAL:HG11	1.99	0.45
2:LB:421:ALA:O	2:LB:425:LEU:HD23	2.17	0.45
1:LC:97:ALA:HB2	1:LC:143:THR:HB	1.99	0.45
1:LE:60:VAL:HG22	1:MD:281:TYR:HD2	1.81	0.45
2:LF:332:ILE:HA	2:LF:335:ILE:HG22	1.99	0.45
1:LG:320:ARG:NH2	45:2y:417:LEU:O	2.50	0.45
2:LH:382:THR:HG21	2:LH:436:GLY:CA	2.46	0.45
1:LI:144:GLY:N	69:LI:500:GDP:O2B	2.47	0.45
1:LK:247:ASN:H	2:LL:11:GLN:NE2	2.15	0.45
2:LL:19:ALA:HA	2:LL:22:GLU:HG2	1.99	0.45
2:LN:3:GLU:N	2:LN:3:GLU:OE1	2.50	0.45
1:LO:9:ALA:HA	1:LO:66:MET:HB3	1.99	0.45
2:MA:271:SER:OG	2:MA:295:VAL:HG13	2.16	0.45
1:MB:12:CYS:SG	1:MB:138:SER:HB3	2.57	0.45
2:MC:252:LEU:HA	2:MC:255:PHE:CE1	2.51	0.45
1:MD:135:LEU:HD23	1:MD:137:HIS:CD2	2.52	0.45
1:MD:275:SER:O	1:MD:279:GLN:HB2	2.16	0.45
2:ME:409:VAL:HG12	32:2B:21:LEU:HG	1.98	0.45
1:MF:238:CYS:SG	1:MF:239:CYS:N	2.90	0.45
2:MI:53:PHE:HB3	2:MI:61:HIS:HB3	1.98	0.45
2:MI:137:VAL:HG21	2:MI:154:LEU:HD21	1.98	0.45
2:MI:175:PRO:HD2	2:MI:207:GLU:OE1	2.16	0.45
2:MK:122:ILE:HG21	2:MK:157:LEU:HD21	1.99	0.45
2:NA:71:GLU:HB3	2:NA:98:ASP:HB2	1.99	0.45
1:NB:174:ARG:HB2	1:NB:205:GLU:OE1	2.17	0.45
2:NC:325:PRO:O	2:NC:329:ASN:ND2	2.50	0.45
1:ND:2:ARG:N	1:ND:129:CYS:SG	2.82	0.45
1:ND:124:ALA:HA	1:ND:130:LEU:HD12	1.98	0.45
1:ND:246:LEU:HD21	2:NE:179:THR:HG21	1.98	0.45
1:ND:296:ALA:HB1	1:ND:305:PRO:HD2	1.99	0.45
2:NE:316:CYS:SG	2:NE:318:MET:HE3	2.57	0.45
2:NE:352:LYS:HZ1	1:NF:99:ASN:HD22	1.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NF:323:THR:HG21	2:NG:224:TYR:CZ	2.52	0.45
1:NH:304:ASP:HB3	1:NH:307:HIS:ND1	2.31	0.45
1:NL:68:LEU:HD22	1:NL:97:ALA:HB2	1.98	0.45
2:NM:107:HIS:O	2:NM:107:HIS:ND1	2.50	0.45
2:OA:329:ASN:HD22	1:OB:175:VAL:HG22	1.81	0.45
1:OB:156:ARG:NH2	1:OB:197:ASP:OD1	2.50	0.45
2:OG:185:TYR:OH	2:OG:398:MET:HB3	2.16	0.45
2:OG:301:MET:HE3	2:OG:307:PRO:HD3	1.98	0.45
2:OI:27:GLU:OE1	2:OI:243:ARG:NH2	2.50	0.45
2:OI:70:LEU:CD2	2:OI:149:LEU:HD22	2.47	0.45
2:OK:251:ASP:OD1	2:OK:254:GLU:HG2	2.16	0.45
1:OL:412:GLU:HA	1:OL:415:MET:HB3	1.98	0.45
2:OM:297:GLU:HG2	2:OM:299:ALA:H	1.82	0.45
2:OM:384:ILE:O	2:OM:387:VAL:HG12	2.17	0.45
1:P:288:GLU:O	1:P:291:GLN:HG3	2.15	0.45
1:PB:234:SER:O	1:PB:241:ARG:NH2	2.43	0.45
1:PF:187:LEU:HD21	1:PF:408:PHE:CD2	2.51	0.45
1:PF:190:HIS:CE1	1:PF:191:GLN:HG2	2.51	0.45
2:PG:31:GLN:OE1	2:PG:31:GLN:HA	2.17	0.45
1:PH:406:MET:O	1:PH:409:THR:OG1	2.30	0.45
2:PK:188:VAL:O	2:PK:191:THR:HG22	2.17	0.45
1:PL:2:ARG:NH2	2:PM:72:PRO:HG3	2.31	0.45
1:PL:14:ASN:HD21	1:PL:72:THR:HG22	1.81	0.45
2:PM:205:ASP:OD1	2:PM:205:ASP:N	2.50	0.45
2:QB:6:CYS:O	2:QB:65:CYS:HA	2.16	0.45
2:QB:47:ASP:N	2:QB:47:ASP:OD1	2.47	0.45
1:QC:165:MET:HE3	1:QC:167:PHE:HE1	1.81	0.45
2:QD:319:TYR:HE1	2:QD:328:VAL:HG13	1.82	0.45
1:QG:16:ILE:HD11	1:QG:136:SER:HB2	1.99	0.45
1:QG:306:ARG:HH21	59:4a:280:LYS:HB3	1.82	0.45
1:QG:379:ARG:O	1:QG:383:GLU:HG3	2.16	0.45
2:QH:318:MET:HA	2:QH:318:MET:HE3	1.97	0.45
1:QK:124:ALA:HB1	1:QK:130:LEU:HD22	1.98	0.45
2:R:252:LEU:HA	2:R:255:PHE:CZ	2.51	0.45
2:RD:240:ALA:O	2:RD:356:ASN:ND2	2.50	0.45
1:RE:5:VAL:HG12	1:RE:130:LEU:HD11	1.99	0.45
1:RG:320:ARG:NE	28:1Y:80:GLU:OE2	2.40	0.45
1:RG:327:ASP:HB3	2:RH:177:VAL:HG13	1.99	0.45
2:RH:297:GLU:CD	2:RH:298:PRO:HD3	2.42	0.45
1:RI:242:PHE:HB2	1:RI:354:CYS:SG	2.57	0.45
2:RJ:259:LEU:O	2:RJ:380:ASN:ND2	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:RJ:318:MET:HB2	2:RJ:376:CYS:SG	2.57	0.45
2:RJ:434:GLU:OE2	57:3h:110:ARG:NH2	2.37	0.45
1:RK:208:TYR:CE1	1:RK:225:LEU:HD11	2.52	0.45
1:RK:257:LEU:HD21	1:RK:314:SER:HB2	1.99	0.45
2:SC:217:LEU:HD21	2:SC:368:LEU:HD13	1.99	0.45
1:SD:9:ALA:HB3	1:SD:137:HIS:HB3	1.98	0.45
1:SD:272:PRO:HD3	1:SD:364:SER:HA	1.98	0.45
2:SE:195:LEU:HD22	2:SE:428:LEU:HD12	1.99	0.45
1:SF:3:GLU:HA	1:SF:49:VAL:HA	1.98	0.45
1:SF:332:ASN:O	1:SF:336:LYS:HG2	2.16	0.45
1:SF:374:ILE:HD11	1:SF:422:TYR:CE1	2.52	0.45
1:SH:324:LYS:HD2	2:SI:222:PRO:HG2	1.98	0.45
2:SI:275:VAL:HG13	2:SI:275:VAL:O	2.17	0.45
2:SI:339:ARG:NH1	57:3h:131:MET:SD	2.90	0.45
1:T:271:ALA:O	1:T:365:VAL:N	2.43	0.45
2:TC:215:ARG:HD2	61:3w:203:TYR:OH	2.17	0.45
2:TC:223:SER:OG	2:TC:224:TYR:N	2.50	0.45
2:TE:71:GLU:HB3	2:TE:98:ASP:HB2	1.98	0.45
2:TE:244:PHE:HB2	2:TE:356:ASN:HD21	1.80	0.45
1:TH:121:ARG:O	1:TH:125:GLU:HG3	2.17	0.45
2:TK:19:ALA:HA	2:TK:22:GLU:HG2	1.99	0.45
1:U:404:ASP:OD1	1:U:405:GLU:N	2.49	0.45
2:UA:253:THR:HA	2:UA:256:GLN:HB3	1.98	0.45
2:UA:258:ASN:ND2	1:UB:99:ASN:OD1	2.33	0.45
1:UB:350:LYS:HG2	2:UC:179:THR:O	2.17	0.45
1:UB:415:MET:O	1:UB:419:VAL:HG23	2.17	0.45
2:UC:93:VAL:HG12	2:UC:114:ILE:HD11	1.98	0.45
2:UI:70:LEU:HD21	2:UI:149:LEU:HD22	1.99	0.45
2:UI:246:GLY:HA3	2:UI:356:ASN:HA	1.98	0.45
1:UL:99:ASN:HA	1:UL:142:GLY:HA3	1.99	0.45
1:V:326:VAL:O	1:V:330:MET:HG2	2.17	0.45
2:VA:328:VAL:O	2:VA:332:ILE:HG12	2.17	0.45
1:VH:19:LYS:HA	1:VH:22:GLU:OE1	2.16	0.45
1:VL:143:THR:OG1	69:VL:500:GDP:O2B	2.24	0.45
1:W:186:THR:HA	1:W:189:VAL:HG12	1.98	0.45
1:WD:268:MET:HB2	1:WD:300:MET:HE2	1.98	0.45
2:WE:253:THR:O	2:WE:257:THR:HG22	2.16	0.45
2:WG:122:ILE:HG21	2:WG:157:LEU:HD21	1.99	0.45
2:WG:212:LEU:HD21	2:WG:275:VAL:HG21	1.99	0.45
2:WG:291:ILE:O	2:WG:295:VAL:HG23	2.16	0.45
2:WG:326:LYS:HD3	1:WH:212:PHE:CE1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:WH:207:LEU:HD13	1:WH:228:LEU:HD23	1.98	0.45
2:WI:25:CYS:HB3	2:WI:30:ILE:O	2.17	0.45
2:WI:429:GLU:O	2:WI:433:GLU:OE1	2.35	0.45
2:WK:5:ILE:HD12	2:WK:125:LEU:HB3	1.99	0.45
2:WK:169:TYR:HD2	2:WK:235:VAL:HG22	1.81	0.45
2:WK:258:ASN:HD21	1:WL:99:ASN:HD22	1.64	0.45
3:XF:34:VAL:HG22	3:XF:49:ILE:HG12	1.98	0.45
7:0C:404:ALA:C	7:0C:405:LYS:HD3	2.42	0.45
7:0D:31:THR:HB	7:0D:34:GLU:OE1	2.17	0.45
9:0L:370:ASN:ND2	9:0L:423:VAL:O	2.50	0.45
9:0M:36:LEU:HG	9:0M:45:ILE:HG13	1.99	0.45
14:0c:318:LYS:O	14:0c:321:THR:OG1	2.29	0.45
16:0k:700:LEU:HD13	16:0k:722:PHE:HE1	1.81	0.45
19:0r:207:ALA:HA	19:0r:210:ARG:HH12	1.81	0.45
20:0u:245:ARG:HA	20:0u:262:ASN:HD21	1.82	0.45
23:1B:318:ARG:NH2	23:1B:321:LEU:HD23	2.32	0.45
24:1J:734:ARG:HG2	24:1J:740:SER:HB2	1.98	0.45
26:1Q:87:LEU:HG	26:1Q:116:LEU:HD11	1.99	0.45
27:1S:342:VAL:HG22	27:1S:345:ALA:HB3	1.99	0.45
27:1S:788:ARG:NH1	27:1S:822:GLN:O	2.41	0.45
27:1T:741:ARG:O	27:1T:745:ARG:HG2	2.17	0.45
28:1c:26:GLY:HA3	41:2i:352:ARG:HD3	1.99	0.45
32:2B:61:ARG:HE	32:2B:61:ARG:HB2	1.50	0.45
34:2L:87:ARG:HG2	34:2L:87:ARG:HH11	1.81	0.45
41:2b:283:LEU:O	41:2b:286:GLU:HG3	2.17	0.45
41:2e:289:CYS:O	41:2e:293:GLU:OE1	2.34	0.45
41:2i:354:LYS:HA	41:2i:357:THR:HG22	1.97	0.45
44:2v:354:LYS:NZ	49:3P:418:SER:H	2.15	0.45
45:2z:29:ASP:OD1	45:2z:30:ALA:N	2.50	0.45
60:3s:64:ASP:O	60:3s:67:LYS:HG3	2.16	0.45
65:5H:128:VAL:O	65:5H:132:GLU:HG2	2.17	0.45
2:AA:34:GLY:HA3	2:AA:60:LYS:HE3	1.99	0.45
2:AC:139:HIS:CE1	2:AC:170:THR:HG22	2.52	0.45
2:AC:191:THR:HG21	2:AC:425:LEU:HD13	1.99	0.45
1:AD:242:PHE:HB2	1:AD:354:CYS:SG	2.57	0.45
1:AF:321:MET:C	54:3Z:432:ILE:HD11	2.42	0.45
2:AG:36:MET:N	2:AG:36:MET:SD	2.89	0.45
1:AH:34:GLY:HA3	1:AH:58:ARG:HG3	1.98	0.45
1:AH:165:MET:HE3	1:AH:250:LEU:HD22	1.99	0.45
2:AI:177:VAL:N	2:AI:207:GLU:OE2	2.47	0.45
1:AJ:248:SER:HA	1:AJ:252:LYS:HG2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AK:138:PHE:HE2	2:AK:235:VAL:HG21	1.82	0.45
1:AL:77:ARG:HG3	1:AL:82:GLY:O	2.17	0.45
1:AL:174:ARG:H	1:AL:380:ARG:NH2	2.13	0.45
1:AL:347:ASN:ND2	2:AM:178:SER:H	2.15	0.45
2:AM:98:ASP:OD1	2:AM:99:ALA:N	2.48	0.45
2:AM:388:PHE:HB3	2:AM:429:GLU:HG2	1.99	0.45
1:B:85:PHE:HB2	1:B:90:PHE:CE1	2.52	0.45
1:BB:46:ARG:HH22	2:BC:73:THR:HA	1.82	0.45
1:BB:237:THR:HG22	1:BB:250:LEU:HD21	1.99	0.45
2:BE:326:LYS:HE3	1:BF:220:PRO:HD2	1.98	0.45
1:BF:43:GLN:O	1:BF:47:ILE:HB	2.17	0.45
2:BG:167:LEU:HD13	2:BG:200:VAL:HB	1.99	0.45
2:BG:345:ASP:OD1	2:BG:346:TRP:N	2.50	0.45
1:BH:221:THR:HG23	1:BH:223:GLY:H	1.81	0.45
2:BK:209:ILE:HG12	2:BK:302:LEU:HD12	1.98	0.45
2:BK:253:THR:HA	2:BK:256:GLN:HB3	1.99	0.45
1:BL:32:PRO:HG3	1:BL:81:TYR:CE1	2.51	0.45
2:C:68:LEU:HD21	2:C:149:LEU:HD21	1.99	0.45
1:CC:371:ASN:OD1	1:CC:372:THR:N	2.50	0.45
2:CF:3:GLU:O	2:CF:133:GLN:N	2.35	0.45
2:CF:345:ASP:OD1	2:CF:346:TRP:N	2.50	0.45
2:CH:352:LYS:HD2	1:CI:177:ASP:O	2.17	0.45
2:CJ:67:PHE:HB2	2:CJ:92:LEU:HD12	1.98	0.45
2:CJ:90:GLU:HB3	2:DJ:280:LYS:HZ3	1.80	0.45
2:CJ:208:ALA:HB2	2:CJ:304:LYS:HD2	1.99	0.45
2:CJ:270:THR:HG23	2:CJ:302:LEU:HB2	1.99	0.45
1:CK:24:ILE:HG12	1:CK:50:TYR:HD2	1.80	0.45
1:CK:65:LEU:HD22	1:CK:90:PHE:CE2	2.52	0.45
1:CK:262:ARG:HG2	1:CK:262:ARG:HH11	1.82	0.45
1:CK:272:PRO:HD3	1:CK:364:SER:HA	1.99	0.45
1:CM:184:ASN:OD1	1:CM:398:TYR:OH	2.28	0.45
2:D:9:ILE:HA	2:D:68:LEU:O	2.17	0.45
2:D:23:LEU:O	2:D:27:GLU:HG3	2.17	0.45
2:D:70:LEU:HD12	2:D:145:THR:HG22	1.99	0.45
1:DA:21:TRP:CZ3	1:DA:61:PRO:HB3	2.52	0.45
2:DB:71:GLU:OE1	2:DB:73:THR:OG1	2.34	0.45
2:DB:217:LEU:HD11	2:DB:367:ASP:O	2.17	0.45
2:DJ:174:SER:OG	2:DJ:177:VAL:O	2.27	0.45
1:DK:186:THR:HG23	1:DK:415:MET:HE2	1.98	0.45
1:DM:233:MET:O	1:DM:236:VAL:HG12	2.17	0.45
1:E:101:TRP:CE3	1:E:403:MET:HE1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EB:406:MET:O	1:EB:409:THR:OG1	2.29	0.45
1:ED:165:MET:HE1	1:ED:236:VAL:HG11	1.99	0.45
1:ED:293:MET:HE2	1:ED:367:PHE:HD1	1.81	0.45
2:EG:11:GLN:O	2:EG:15:GLN:HG2	2.17	0.45
2:EG:297:GLU:CD	2:EG:298:PRO:HD2	2.42	0.45
1:EL:325:GLU:HA	1:EL:328:GLU:HG3	1.98	0.45
2:FA:67:PHE:HB2	2:FA:92:LEU:HA	1.99	0.45
2:FA:254:GLU:OE1	1:FB:99:ASN:HB2	2.16	0.45
1:FB:56:GLY:O	10:0R:234:TYR:OH	2.28	0.45
2:FC:392:ASP:HB3	2:FC:425:LEU:HD23	1.97	0.45
1:FD:101:TRP:HB3	1:FD:398:TYR:HE2	1.82	0.45
1:FD:294:PHE:HB3	63:4I:315:PHE:CZ	2.51	0.45
2:FG:291:ILE:O	2:FG:295:VAL:HG23	2.17	0.45
1:FH:316:LEU:HD23	1:FH:352:SER:HB2	1.98	0.45
1:FH:321:MET:HE2	1:FH:321:MET:HB3	1.83	0.45
1:FJ:139:LEU:HG	1:FJ:168:SER:HB2	1.99	0.45
1:G:46:ARG:NH2	2:GA:76:ASP:HB2	2.28	0.45
1:GB:174:ARG:HH12	1:GB:380:ARG:HH11	1.65	0.45
2:GC:181:VAL:O	2:GC:398:MET:HE1	2.16	0.45
2:GC:396:ASP:OD1	2:GC:422:ARG:NE	2.48	0.45
1:GD:406:MET:HE2	1:GD:406:MET:HB2	1.78	0.45
2:GE:5:ILE:HG12	2:GE:132:LEU:HD13	1.98	0.45
2:GE:33:ASP:HA	2:GE:85:GLN:HB2	1.98	0.45
1:GF:267:MET:HB2	1:GF:301:GLN:HB3	1.98	0.45
1:GF:330:MET:SD	1:GF:349:ILE:HG21	2.57	0.45
2:GG:53:PHE:HB3	2:GG:61:HIS:HB3	1.98	0.45
1:GH:19:LYS:HG2	1:GH:226:ASN:C	2.42	0.45
1:GH:256:ASN:ND2	2:GI:101:ASN:OD1	2.48	0.45
1:H:92:PHE:CZ	7:0C:259:THR:HG23	2.52	0.45
2:HA:377:MET:HE3	2:HA:379:ALA:HB2	1.98	0.45
2:HC:21:TRP:CZ2	2:HC:65:CYS:HB3	2.51	0.45
2:HC:215:ARG:NH1	2:HC:299:ALA:O	2.50	0.45
2:HC:349:THR:HG22	1:HD:173:PRO:HB3	1.98	0.45
1:HH:190:HIS:HB2	1:HH:414:ASN:HD22	1.80	0.45
2:HI:119:LEU:HG	2:HI:156:ARG:HG2	1.99	0.45
2:HI:309:HIS:HB3	2:HI:386:GLU:OE2	2.15	0.45
2:HI:331:ALA:O	2:HI:335:ILE:HG12	2.17	0.45
2:HK:116:ASP:OD1	2:HK:116:ASP:N	2.50	0.45
2:HK:117:LEU:HD21	2:HK:121:ARG:NH2	2.32	0.45
1:HL:178:THR:OG1	1:HL:181:GLU:HG3	2.17	0.45
2:HM:288:VAL:HA	2:HM:291:ILE:HG12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:68:LEU:HD11	1:I:104:GLY:HA2	1.97	0.45
1:I:251:ARG:HG2	1:I:251:ARG:HH11	1.82	0.45
1:ID:282:ARG:HE	1:ID:283:GLY:H	1.63	0.45
1:IH:208:TYR:CE1	1:IH:225:LEU:HD11	2.52	0.45
1:IJ:275:SER:O	1:IJ:279:GLN:HG2	2.17	0.45
2:IK:90:GLU:HB2	2:IK:121:ARG:NH1	2.31	0.45
1:IL:198:GLU:HA	1:IL:264:HIS:HB2	1.98	0.45
1:IL:207:LEU:HD12	1:IL:225:LEU:HG	1.99	0.45
2:JB:9:ILE:HG22	2:JB:146:GLY:HA2	1.98	0.45
2:JB:160:ASP:OD1	2:JB:161:TYR:N	2.50	0.45
2:JB:419:SER:O	2:JB:423:GLU:OE1	2.35	0.45
1:JC:74:ASP:OD1	17:0m:7:ARG:HG2	2.17	0.45
2:JJ:271:SER:OG	2:JJ:377:MET:HE2	2.16	0.45
1:JK:258:VAL:HA	1:JK:370:ASN:HD21	1.82	0.45
1:JK:308:GLY:HA3	1:JK:373:CYS:HB3	1.98	0.45
1:JK:322:SER:HB3	2:JL:221:ARG:HE	1.82	0.45
2:JL:189:LEU:HD13	2:JL:413:MET:HE1	1.99	0.45
1:JM:67:ASP:O	1:JM:92:PHE:HA	2.15	0.45
1:JM:85:PHE:HB2	1:JM:90:PHE:CZ	2.51	0.45
2:JN:2:ARG:HA	2:JN:133:GLN:HG2	1.99	0.45
2:JN:5:ILE:HD11	2:JN:125:LEU:HD13	1.98	0.45
2:JN:359:PRO:HG2	15:0g:67:PRO:HG2	1.99	0.45
2:K:298:PRO:HG3	2:K:308:ARG:CZ	2.47	0.45
2:K:359:PRO:HD2	49:3P:544:ARG:NH1	2.32	0.45
2:KB:83:TYR:HB3	2:KB:86:LEU:HB3	1.98	0.45
2:KB:274:PRO:HG2	2:KB:371:VAL:HG11	1.98	0.45
2:KB:291:ILE:O	2:KB:295:VAL:HG23	2.17	0.45
1:KE:388:MET:HE3	1:KE:388:MET:HB2	1.82	0.45
2:KJ:137:VAL:HG11	2:KJ:154:LEU:HD21	1.98	0.45
2:KJ:240:ALA:O	2:KJ:356:ASN:ND2	2.49	0.45
2:KL:90:GLU:O	2:KL:91:GLN:HG3	2.16	0.45
2:KL:213:THR:HA	2:KL:217:LEU:HD23	1.97	0.45
1:KM:21:TRP:CZ2	1:KM:63:ALA:HB2	2.52	0.45
1:KM:267:MET:HE3	1:KM:371:ASN:HB3	1.98	0.45
2:L:271:SER:HB3	2:L:301:MET:SD	2.57	0.45
1:LA:106:TYR:CD1	6:0:121:VAL:HG11	2.52	0.45
1:LA:152:ILE:HD12	1:LA:166:THR:HG21	1.98	0.45
1:LA:404:ASP:N	1:LA:404:ASP:OD2	2.48	0.45
1:LE:330:MET:HA	1:LE:333:VAL:HG12	1.97	0.45
1:LE:406:MET:HE3	50:3S:143:LYS:HD3	1.98	0.45
2:LF:80:THR:O	2:LF:84:ARG:NH2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LF:167:LEU:HD13	2:LF:200:VAL:HB	1.98	0.45
1:LG:22:GLU:OE2	1:LG:80:PRO:HG2	2.17	0.45
1:LG:249:ASP:O	1:LG:253:LEU:HD23	2.17	0.45
2:LH:142:GLY:CA	2:LH:183:GLU:HG3	2.47	0.45
2:LJ:332:ILE:O	2:LJ:336:LYS:HG3	2.17	0.45
1:LK:341:PHE:CE2	35:2O:118:MET:HE1	2.52	0.45
1:LK:391:ARG:CZ	22:0z:148:PHE:CE1	3.00	0.45
1:LK:403:MET:HE3	1:LK:407:GLU:HG2	1.99	0.45
2:LL:234:VAL:HG22	2:LL:272:TYR:HB2	1.99	0.45
1:LM:293:MET:SD	1:LM:330:MET:HE1	2.57	0.45
2:LN:221:ARG:HD2	23:1F:381:TYR:HD1	1.82	0.45
2:LN:257:THR:HG21	1:LO:98:GLY:O	2.16	0.45
1:LO:2:ARG:N	1:LO:131:GLN:HB2	2.31	0.45
1:LO:33:THR:HA	1:LO:83:GLN:HG2	1.98	0.45
1:M:26:ASP:OD2	1:M:27:GLU:N	2.50	0.45
1:M:73:MET:CE	1:M:92:PHE:HB3	2.47	0.45
1:M:379:ARG:HD2	1:M:423:GLN:NE2	2.32	0.45
1:MB:9:ALA:HB3	1:MB:137:HIS:HB3	1.99	0.45
2:MC:7:ILE:HG21	2:MC:153:LEU:HD21	1.97	0.45
2:MC:123:ARG:HA	2:MC:161:TYR:OH	2.16	0.45
1:MD:299:MET:H	32:2B:242:ARG:HH22	1.64	0.45
2:ME:258:ASN:HA	1:MF:179:VAL:HG22	1.98	0.45
1:MF:36:TYR:OH	1:MF:40:SER:O	2.34	0.45
1:MF:170:ILE:HD11	1:MF:301:GLN:HE21	1.82	0.45
1:MF:202:ILE:HG12	1:MF:268:MET:HE1	1.99	0.45
2:MG:6:CYS:HB3	2:MG:8:HIS:CE1	2.52	0.45
1:MH:51:PHE:HB3	1:MH:59:TYR:HB3	1.99	0.45
1:MH:248:SER:HA	1:MH:252:LYS:HD3	1.99	0.45
1:MJ:320:ARG:O	44:2w:9:LEU:HD13	2.17	0.45
2:MK:81:GLY:HA2	44:2w:3:VAL:HG23	1.98	0.45
2:MK:98:ASP:OD1	2:MK:99:ALA:N	2.49	0.45
1:ML:27:GLU:OE2	1:ML:318:ARG:NH2	2.45	0.45
1:ML:63:ALA:O	1:ML:89:ASN:ND2	2.39	0.45
1:ML:73:MET:SD	1:ML:92:PHE:HB3	2.57	0.45
1:ML:91:ILE:HD11	1:ML:119:VAL:HG21	1.98	0.45
1:ML:386:THR:O	1:ML:390:ARG:HG3	2.17	0.45
2:MM:170:THR:HB	2:MM:172:TYR:CE1	2.52	0.45
2:MM:251:ASP:H	2:MM:254:GLU:CG	2.30	0.45
2:MM:335:ILE:HG23	2:MM:341:ILE:HD11	1.99	0.45
2:MM:388:PHE:HA	2:MM:391:ILE:HG22	1.99	0.45
1:NB:121:ARG:NH1	1:NB:158:GLU:OE1	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ND:10:GLY:O	1:ND:14:ASN:ND2	2.43	0.45
1:NF:267:MET:HE1	1:NF:373:CYS:SG	2.57	0.45
1:NF:344:TRP:HZ3	2:NG:403:ALA:HB2	1.82	0.45
1:NH:158:GLU:HG3	1:NH:159:TYR:CD2	2.52	0.45
1:NH:267:MET:HA	1:NH:301:GLN:NE2	2.32	0.45
2:NI:22:GLU:O	2:NI:26:LEU:HD13	2.17	0.45
1:NJ:299:MET:SD	1:NJ:310:TYR:OH	2.74	0.45
2:NM:66:LEU:HA	2:NM:91:GLN:O	2.16	0.45
2:NM:169:TYR:OH	2:NM:238:LEU:HD13	2.17	0.45
1:O:101:TRP:HB2	1:O:184:ASN:HB2	1.99	0.45
1:O:318:ARG:HE	1:O:358:PRO:CD	2.30	0.45
1:OD:241:ARG:HH11	1:OD:241:ARG:HG3	1.81	0.45
2:OE:138:PHE:HE2	2:OE:235:VAL:HG21	1.81	0.45
1:OF:330:MET:HB3	1:OF:349:ILE:HG21	1.98	0.45
1:OH:317:PHE:HB3	1:OH:321:MET:SD	2.57	0.45
1:OJ:398:TYR:O	1:OJ:403:MET:HB2	2.17	0.45
2:OK:101:ASN:ND2	2:OK:143:GLY:HA2	2.29	0.45
1:OL:211:CYS:SG	1:OL:217:LEU:HD11	2.56	0.45
1:OL:255:VAL:HG23	2:OM:407:TRP:CD1	2.52	0.45
1:OL:308:GLY:HA3	1:OL:373:CYS:HB3	1.98	0.45
2:OM:387:VAL:HA	2:OM:390:ARG:NH1	2.31	0.45
2:PE:225:THR:O	2:PE:229:ARG:HG2	2.16	0.45
1:PF:177:ASP:OD1	1:PF:177:ASP:N	2.44	0.45
2:PG:21:TRP:CZ3	2:PG:52:PHE:HB3	2.51	0.45
1:PH:183:TYR:HD1	1:PH:385:PHE:CE2	2.35	0.45
1:PJ:371:ASN:OD1	1:PJ:372:THR:N	2.49	0.45
2:PM:262:TYR:CG	57:3i:28:TYR:CE1	3.05	0.45
2:Q:234:VAL:HG21	2:Q:302:LEU:CD1	2.47	0.45
1:QA:286:VAL:HG11	1:QA:325:GLU:HB3	1.98	0.45
2:QB:2:ARG:O	2:QB:242:LEU:HD13	2.16	0.45
2:QB:27:GLU:OE2	2:QB:236:SER:OG	2.26	0.45
2:QB:124:LYS:HA	2:QB:127:ASP:OD2	2.17	0.45
2:QB:211:ASP:O	2:QB:215:ARG:HG3	2.17	0.45
1:QC:273:LEU:HD12	1:QC:298:ASN:HD21	1.81	0.45
1:QC:299:MET:HE2	1:QC:299:MET:HB2	1.91	0.45
2:QD:299:ALA:HB2	59:4a:213:TYR:CE1	2.52	0.45
2:QF:324:VAL:HG13	2:QF:327:ASP:H	1.82	0.45
1:QG:258:VAL:HB	2:QH:407:TRP:HZ2	1.82	0.45
1:QG:267:MET:HE2	1:QG:299:MET:HE2	1.98	0.45
1:QG:312:THR:HG21	2:QH:404:PHE:HZ	1.81	0.45
2:QH:295:VAL:HG21	2:QH:375:VAL:HG13	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QH:328:VAL:O	2:QH:332:ILE:HG12	2.16	0.45
2:QL:136:MET:SD	2:QL:239:THR:HG21	2.57	0.45
1:RA:2:ARG:HH21	1:RA:240:LEU:HD12	1.81	0.45
2:RB:191:THR:HG21	2:RB:425:LEU:HD13	1.98	0.45
2:RB:326:LYS:HD2	1:RC:212:PHE:CE2	2.52	0.45
1:RG:135:LEU:HD23	1:RG:152:ILE:HD11	1.97	0.45
1:RG:372:THR:O	1:RG:375:GLN:HG3	2.17	0.45
2:RH:213:THR:HG22	2:RH:219:ILE:HB	1.98	0.45
1:S:167:PHE:CE2	1:S:233:MET:HG2	2.51	0.45
2:SA:345:ASP:OD1	2:SA:346:TRP:N	2.50	0.45
2:SC:28:HIS:CE1	2:SC:243:ARG:HD2	2.52	0.45
2:SC:223:SER:OG	2:SC:224:TYR:N	2.50	0.45
2:SG:175:PRO:HB3	2:SG:390:ARG:CZ	2.46	0.45
2:SI:66:LEU:HD22	2:SI:122:ILE:HG12	1.99	0.45
2:SI:250:VAL:CG1	2:SI:318:MET:HE1	2.47	0.45
2:SK:178:SER:OG	2:SK:183:GLU:OE1	2.31	0.45
1:TB:380:ARG:HG2	1:TB:380:ARG:HH11	1.82	0.45
2:TC:253:THR:HA	2:TC:256:GLN:HG2	1.98	0.45
1:TD:311:LEU:HD23	1:TD:342:ILE:HD13	1.98	0.45
2:TE:211:ASP:O	2:TE:215:ARG:HG2	2.16	0.45
2:TE:274:PRO:HG3	2:TE:286:LEU:HD13	1.99	0.45
1:TF:130:LEU:HD21	1:TF:133:PHE:CE1	2.51	0.45
2:TG:231:ILE:O	2:TG:235:VAL:HG23	2.16	0.45
2:TI:133:GLN:HB3	2:TI:252:LEU:HB2	1.99	0.45
2:TI:250:VAL:HG21	2:TI:255:PHE:HB3	1.98	0.45
1:U:130:LEU:HD21	1:U:133:PHE:CE2	2.52	0.45
1:U:257:LEU:HB3	1:U:266:PHE:CE1	2.52	0.45
1:UD:322:SER:HA	2:UE:223:SER:HB2	1.99	0.45
2:UG:79:ARG:O	2:UG:84:ARG:HB3	2.17	0.45
2:UG:255:PHE:HA	2:UG:258:ASN:HB2	1.98	0.45
2:UG:352:LYS:HD2	1:UH:177:ASP:O	2.17	0.45
2:UI:203:MET:HE2	2:UI:267:PHE:HB3	1.99	0.45
2:UI:215:ARG:HH21	2:UI:299:ALA:C	2.25	0.45
2:VA:93:VAL:HG12	2:VA:114:ILE:HD11	1.99	0.45
2:VC:237:SER:HA	2:VC:320:ARG:HD2	1.99	0.45
1:VF:229:VAL:HA	1:VF:232:VAL:HG22	1.98	0.45
2:VK:295:VAL:HG21	2:VK:375:VAL:HG13	1.98	0.45
1:VL:316:LEU:HB2	1:VL:366:THR:CG2	2.47	0.45
1:W:22:GLU:HA	1:W:81:TYR:HD2	1.82	0.45
1:W:247:ASN:N	2:WA:11:GLN:HE22	2.14	0.45
2:WA:326:LYS:HE3	1:WB:220:PRO:HD2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:WD:292:GLN:O	1:WD:298:ASN:ND2	2.35	0.45
1:WD:296:ALA:HB1	1:WD:305:PRO:HD2	1.99	0.45
2:WE:167:LEU:HD11	2:WE:255:PHE:HZ	1.81	0.45
2:WE:225:THR:O	2:WE:229:ARG:HG3	2.16	0.45
1:WF:124:ALA:HB1	1:WF:130:LEU:HD22	1.98	0.45
2:WG:199:ASP:OD2	2:WG:256:GLN:NE2	2.46	0.45
2:WG:326:LYS:NZ	1:WH:219:THR:HA	2.32	0.45
2:WG:395:PHE:HD2	2:WG:422:ARG:HD3	1.82	0.45
1:WH:165:MET:HE2	1:WH:165:MET:HA	1.98	0.45
1:WH:226:ASN:OD1	69:WH:500:GDP:N1	2.40	0.45
2:WK:138:PHE:HE1	2:WK:235:VAL:HG21	1.82	0.45
1:WL:316:LEU:HB2	1:WL:366:THR:HB	1.98	0.45
1:WL:350:LYS:HA	2:WM:179:THR:O	2.16	0.45
3:XD:95:ASP:OD2	3:XD:99:MET:HE2	2.17	0.45
4:XM:192:ILE:HG23	4:XM:232:ILE:HD11	1.97	0.45
6:0A:127:TYR:CE1	6:0A:145:VAL:HG21	2.52	0.45
6:0:26:MET:HG2	6:0:27:ASN:N	2.31	0.45
6:0:98:PRO:HD2	6:0:99:ASP:H	1.82	0.45
7:0C:342:CYS:HA	38:2U:187:GLN:NE2	2.28	0.45
7:0D:117:LEU:CD2	7:0D:121:ARG:HH12	2.29	0.45
8:0J:264:GLN:HG2	8:0J:267:ARG:CZ	2.47	0.45
8:0J:388:ALA:O	8:0J:391:LYS:HG2	2.16	0.45
9:0L:601:SER:OG	9:0L:603:ASP:OD1	2.26	0.45
9:0N:399:LYS:HE3	14:0d:22:GLU:HG3	1.98	0.45
9:0O:70:SER:HA	9:0O:116:PHE:HD2	1.82	0.45
9:0O:214:ILE:HG12	9:0O:226:ALA:HB3	1.99	0.45
10:0S:305:GLU:O	10:0S:309:ARG:HD3	2.17	0.45
12:0W:93:SER:O	12:0W:93:SER:OG	2.34	0.45
13:0Z:148:VAL:HG12	13:0Z:152:MET:HE3	1.99	0.45
16:0l:911:THR:HA	16:0l:938:LEU:HD21	1.99	0.45
16:0k:12:MET:HE2	16:0k:12:MET:HA	1.98	0.45
17:0n:166:GLU:O	17:0n:169:ARG:NH2	2.49	0.45
19:0r:192:ARG:HE	19:0r:192:ARG:HA	1.81	0.45
23:1A:51:ARG:HG3	23:1A:57:MET:HG3	1.98	0.45
23:1B:193:LYS:O	23:1B:196:LYS:HB2	2.17	0.45
24:1H:324:LEU:HD11	24:1H:352:TYR:HE1	1.82	0.45
24:1J:258:ASP:HB3	24:1J:384:ALA:HB1	1.98	0.45
24:1J:343:ILE:O	24:1J:344:ARG:NH1	2.45	0.45
24:1K:643:GLU:O	24:1K:646:GLU:HG3	2.16	0.45
28:1Y:14:ASP:OD1	28:1Y:14:ASP:N	2.46	0.45
28:1h:159:GLN:HB3	28:1h:161:ARG:NH2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:2Q:300:LYS:O	36:2Q:303:THR:OG1	2.29	0.45
40:2Z:119:ARG:O	40:2Z:123:ILE:HG12	2.16	0.45
43:2t:252:LEU:HB3	43:2t:260:ILE:HD12	1.99	0.45
44:2v:301:ARG:HB2	44:2v:387:ALA:CB	2.44	0.45
44:2w:197:TYR:OH	44:2w:236:LEU:O	2.22	0.45
44:2w:210:ILE:HD11	44:2w:383:ASN:C	2.42	0.45
49:3P:435:ILE:HB	49:3P:438:VAL:HG22	1.97	0.45
49:3P:556:ASP:OD1	49:3P:557:PHE:N	2.50	0.45
49:3Q:471:GLU:O	49:3Q:474:GLU:HG3	2.16	0.45
57:3g:73:GLN:O	57:3g:77:PHE:N	2.40	0.45
61:3x:13:ASP:OD1	61:3x:14:ARG:N	2.50	0.45
68:5T:115:LEU:HD13	68:5T:149:PHE:CE2	2.47	0.45
1:A:87:PRO:HD3	1:B:281:TYR:HD1	1.81	0.45
1:A:272:PRO:HG3	1:A:284:LEU:HD11	1.99	0.45
1:AB:133:PHE:CD2	1:AB:155:LEU:HD23	2.52	0.45
2:AC:138:PHE:HE2	2:AC:235:VAL:HG21	1.82	0.45
2:AC:263:PRO:HG2	3:XA:116:PRO:HG3	1.98	0.45
2:AG:288:VAL:CB	2:AG:327:ASP:HB3	2.43	0.45
2:AG:318:MET:O	2:AG:375:VAL:HA	2.17	0.45
1:AJ:292:GLN:O	1:AJ:298:ASN:ND2	2.36	0.45
2:AK:261:PRO:HD2	2:AK:265:ILE:HB	1.99	0.45
2:AK:265:ILE:HG22	2:AK:380:ASN:HD21	1.82	0.45
2:AK:271:SER:HB3	2:AK:301:MET:HA	1.98	0.45
2:AM:88:ASN:HB3	2:AM:91:GLN:NE2	2.28	0.45
2:AM:326:LYS:HG3	1:AN:220:PRO:HD2	1.99	0.45
1:AN:294:PHE:HE2	1:AN:330:MET:HE1	1.82	0.45
2:BA:262:TYR:HB2	2:BA:265:ILE:HG12	1.99	0.45
1:BB:273:LEU:H	1:BB:292:GLN:HE22	1.65	0.45
1:BD:232:VAL:CG2	1:BD:300:MET:HE1	2.43	0.45
2:BG:195:LEU:HD13	2:BG:267:PHE:HE2	1.81	0.45
2:BG:422:ARG:HA	2:BG:422:ARG:HD2	1.61	0.45
1:BH:218:THR:OG1	1:BH:219:THR:N	2.50	0.45
1:BJ:220:PRO:HB2	1:BJ:224:ASP:HB2	1.98	0.45
2:BK:296:PHE:HZ	2:BK:351:PHE:HE1	1.64	0.45
2:BK:395:PHE:CD2	2:BK:422:ARG:HD3	2.52	0.45
1:BL:347:ASN:ND2	2:BM:178:SER:HB3	2.31	0.45
2:CD:117:LEU:O	2:CD:121:ARG:HG2	2.17	0.45
2:CD:306:ASP:OD2	2:CD:308:ARG:NE	2.44	0.45
1:CE:311:LEU:HB2	1:CE:370:ASN:O	2.16	0.45
2:CJ:246:GLY:HA3	2:CJ:356:ASN:HA	1.99	0.45
1:CK:320:ARG:NE	16:0l:446:GLN:OE1	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CM:263:LEU:HD11	1:CM:425:TYR:CD2	2.51	0.45
2:D:172:TYR:CE1	2:D:203:MET:HE1	2.51	0.45
2:DB:51:THR:OG1	2:DB:243:ARG:HG2	2.16	0.45
1:DC:203:ASP:HB2	1:DC:301:GLN:OE1	2.17	0.45
2:DD:70:LEU:HD21	2:DD:114:ILE:HG21	1.99	0.45
2:DD:223:SER:O	2:DD:227:VAL:HG23	2.17	0.45
2:DD:238:LEU:HD21	2:DD:255:PHE:CZ	2.52	0.45
2:DF:3:GLU:HG2	2:DF:64:ARG:CZ	2.46	0.45
1:DG:113:ILE:HG13	1:DG:117:LEU:HD23	1.98	0.45
2:DH:51:THR:HG21	2:DH:243:ARG:HG2	1.99	0.45
2:DH:208:ALA:HB2	2:DH:304:LYS:HG2	1.98	0.45
1:DK:253:LEU:O	1:DK:257:LEU:HB2	2.17	0.45
1:DK:255:VAL:HG11	2:DL:100:ALA:O	2.16	0.45
2:DL:123:ARG:NH2	2:DL:160:ASP:OD2	2.48	0.45
2:DL:147:SER:HB2	2:DL:190:SER:HB3	1.98	0.45
1:E:319:GLY:HA2	1:E:357:PRO:HG3	1.99	0.45
1:EB:226:ASN:CG	69:EB:500:GDP:HN1	2.25	0.45
1:ED:344:TRP:CD1	1:ED:344:TRP:H	2.34	0.45
1:EH:10:GLY:HA2	1:EH:143:THR:HG23	1.99	0.45
1:EH:299:MET:HE2	1:EH:301:GLN:HG3	1.99	0.45
2:EI:250:VAL:HG11	2:EI:352:LYS:HE2	1.99	0.45
1:EJ:87:PRO:HA	1:EJ:90:PHE:CD2	2.52	0.45
1:EJ:344:TRP:CE2	2:EK:401:LYS:HD2	2.52	0.45
2:EK:288:VAL:HB	2:EK:327:ASP:HB3	1.99	0.45
2:EK:295:VAL:HG21	2:EK:375:VAL:HG13	1.99	0.45
1:EL:385:PHE:CD1	1:EL:389:PHE:CE2	3.05	0.45
2:FA:346:TRP:O	1:FB:388:MET:HG2	2.17	0.45
1:FB:2:ARG:HH12	2:FC:71:GLU:HB2	1.82	0.45
1:FB:385:PHE:HE2	1:FB:412:GLU:HB2	1.82	0.45
1:FD:144:GLY:N	69:FD:500:GDP:O2B	2.48	0.45
2:FE:250:VAL:HA	2:FE:254:GLU:HG2	1.99	0.45
1:FF:325:GLU:OE2	2:FG:221:ARG:HD3	2.17	0.45
1:FF:330:MET:HE2	1:FF:349:ILE:HD12	1.98	0.45
1:FH:350:LYS:HD3	2:FI:180:ALA:HA	1.97	0.45
2:FI:127:ASP:OD1	2:FI:128:ASN:N	2.50	0.45
2:FK:237:SER:HA	2:FK:320:ARG:HD2	1.99	0.45
1:G:313:ALA:O	1:G:350:LYS:HG2	2.17	0.45
2:GC:63:PRO:HG2	2:GC:87:PHE:CD1	2.52	0.45
2:GC:98:ASP:N	2:GC:98:ASP:OD1	2.50	0.45
2:GE:308:ARG:HH12	59:4O:215:LEU:HD11	1.81	0.45
1:GF:97:ALA:HB2	1:GF:143:THR:HB	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GI:9:ILE:HG12	2:GI:68:LEU:HD21	1.98	0.45
2:GI:175:PRO:HG3	2:GI:390:ARG:CZ	2.47	0.45
2:GI:315:CYS:HB3	2:GI:377:MET:HE2	1.99	0.45
1:GJ:113:ILE:HG12	1:GJ:150:LEU:HD22	1.99	0.45
2:GK:213:THR:HG22	2:GK:219:ILE:HB	1.99	0.45
2:GK:275:VAL:O	2:GK:275:VAL:HG13	2.17	0.45
1:GL:320:ARG:NE	1:GL:320:ARG:HA	2.32	0.45
1:H:232:VAL:HG22	1:H:270:PHE:HB2	1.98	0.45
1:HB:153:SER:HA	1:HB:195:ASN:ND2	2.31	0.45
1:HD:135:LEU:HB3	1:HD:166:THR:HG22	1.98	0.45
2:HE:209:ILE:HD11	2:HE:231:ILE:HD11	1.99	0.45
2:HI:156:ARG:HA	2:HI:159:VAL:HG12	1.98	0.45
2:HI:316:CYS:HA	2:HI:352:LYS:O	2.17	0.45
1:HJ:172:SER:OG	1:HJ:205:GLU:OE2	2.34	0.45
2:HM:178:SER:HB2	2:HM:183:GLU:OE1	2.16	0.45
2:HM:271:SER:HA	2:HM:302:LEU:HG	1.99	0.45
2:HM:426:ALA:HA	2:HM:429:GLU:OE1	2.17	0.45
1:I:134:GLN:HA	1:I:165:MET:HB3	1.98	0.45
2:IA:257:THR:HG23	1:IB:397:TRP:CD1	2.51	0.45
2:IA:335:ILE:HD13	2:IA:338:LYS:NZ	2.31	0.45
2:IC:332:ILE:HG23	2:IC:351:PHE:CD2	2.52	0.45
1:ID:8:GLN:HB3	1:ID:14:ASN:HA	1.98	0.45
1:ID:174:ARG:HH22	1:ID:380:ARG:NH1	2.15	0.45
1:IF:66:MET:SD	1:IF:151:LEU:HD22	2.56	0.45
1:IF:139:LEU:HG	1:IF:168:SER:HB2	1.99	0.45
2:IG:90:GLU:C	2:IG:92:LEU:H	2.24	0.45
1:IH:91:ILE:HD11	1:IH:119:VAL:HG11	1.99	0.45
1:IL:9:ALA:HB3	1:IL:137:HIS:HB3	1.99	0.45
1:IL:322:SER:HB2	2:IM:221:ARG:HB3	1.98	0.45
2:IM:322:ASP:OD2	2:IM:373:ARG:NE	2.49	0.45
2:J:192:HIS:HE1	2:J:420:GLU:HG2	1.82	0.45
1:JA:416:ASN:ND2	60:3r:47:PRO:O	2.46	0.45
2:JH:3:GLU:HA	2:JH:51:THR:HA	1.99	0.45
2:JH:122:ILE:HG21	2:JH:157:LEU:HD11	1.99	0.45
2:JH:175:PRO:HG3	2:JH:390:ARG:CZ	2.47	0.45
2:JL:203:MET:H	2:JL:203:MET:HE2	1.81	0.45
2:JL:204:LEU:HD13	2:JL:231:ILE:HD12	1.99	0.45
1:KC:19:LYS:HE2	1:KC:226:ASN:HB2	1.98	0.45
1:KI:152:ILE:HB	1:KI:164:MET:HE1	1.99	0.45
2:KJ:259:LEU:HD22	2:KJ:378:ILE:HD12	1.99	0.45
2:KL:239:THR:O	2:KL:242:LEU:HG	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KL:335:ILE:HG23	2:KL:341:ILE:HD11	1.99	0.45
1:KM:67:ASP:HB3	1:KM:73:MET:HE3	1.99	0.45
1:KM:345:ILE:HG23	2:KN:398:MET:HE3	1.98	0.45
1:LA:125:GLU:HB3	1:M:291:GLN:HE22	1.81	0.45
1:LA:363:MET:HB3	23:1E:383:ASN:ND2	2.32	0.45
1:LC:33:THR:O	1:MB:280:GLN:NE2	2.50	0.45
1:LC:324:LYS:HD2	2:LD:222:PRO:HD2	1.99	0.45
1:LC:332:ASN:O	1:LC:336:LYS:HG2	2.17	0.45
1:LE:280:GLN:NE2	23:1E:270:MET:HE1	2.32	0.45
1:LE:316:LEU:HD23	1:LE:352:SER:OG	2.17	0.45
2:LF:393:HIS:HD2	22:1x:134:VAL:HG22	1.82	0.45
2:LH:186:ASN:OD1	2:LH:408:TYR:OH	2.32	0.45
1:LI:200:MET:HB3	1:LI:268:MET:CE	2.47	0.45
1:LI:330:MET:HB3	1:LI:349:ILE:HG21	1.98	0.45
1:LI:337:ASN:HB3	1:LI:340:TYR:CD1	2.52	0.45
2:LJ:223:SER:OG	2:LJ:224:TYR:N	2.49	0.45
1:LK:237:THR:HG22	1:LK:250:LEU:HD11	1.99	0.45
2:LN:79:ARG:HH22	2:LN:94:SER:HB2	1.82	0.45
2:LN:253:THR:HA	2:LN:256:GLN:CG	2.47	0.45
1:LO:117:LEU:HA	1:LO:120:CYS:SG	2.57	0.45
1:M:62:ARG:NH1	1:M:127:CYS:SG	2.90	0.45
2:MA:160:ASP:OD1	2:MA:161:TYR:N	2.50	0.45
2:MC:115:VAL:HG21	2:MC:152:LEU:HG	1.98	0.45
2:ME:215:ARG:HB3	2:ME:215:ARG:NH1	2.32	0.45
2:ME:406:HIS:HD2	5:XN:90:MET:HG2	1.82	0.45
1:MF:198:GLU:HA	1:MF:264:HIS:HB2	1.98	0.45
1:MF:257:LEU:HD23	1:MF:312:THR:HG22	1.98	0.45
1:MH:330:MET:HB3	1:MH:349:ILE:HG21	1.98	0.45
2:MI:352:LYS:HA	1:MJ:177:ASP:HA	1.99	0.45
1:MJ:141:GLY:O	1:MJ:145:SER:OG	2.24	0.45
1:MJ:277:GLY:O	24:1J:46:THR:HG21	2.17	0.45
2:MK:141:VAL:HG11	2:MK:194:LEU:HD11	1.98	0.45
1:N:172:SER:CB	1:N:380:ARG:HH22	2.29	0.45
2:NC:235:VAL:O	2:NC:239:THR:HG22	2.17	0.45
2:NE:244:PHE:CG	2:NE:358:GLN:HG3	2.52	0.45
2:NI:425:LEU:HD12	2:NI:425:LEU:HA	1.86	0.45
2:NK:150:GLY:O	2:NK:154:LEU:HD23	2.17	0.45
1:NL:143:THR:O	1:NL:147:MET:HG3	2.16	0.45
1:O:238:CYS:SG	1:O:316:LEU:HD23	2.57	0.45
1:OB:253:LEU:HD21	1:OB:316:LEU:HD11	1.98	0.45
1:OB:272:PRO:HD3	1:OB:364:SER:HA	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OB:347:ASN:C	1:OB:347:ASN:HD22	2.24	0.45
2:OE:182:VAL:HG13	2:OE:186:ASN:HD21	1.82	0.45
1:OJ:32:PRO:HG3	1:OJ:81:TYR:CD1	2.52	0.45
1:OJ:266:PHE:CD1	1:OJ:370:ASN:HB2	2.52	0.45
2:OK:279:GLU:OE2	2:OK:280:LYS:HE3	2.17	0.45
1:OL:252:LYS:HE2	2:OM:101:ASN:ND2	2.32	0.45
1:P:291:GLN:NE2	1:P:292:GLN:HG3	2.32	0.45
2:PA:21:TRP:CZ2	2:PA:65:CYS:HB3	2.51	0.45
1:PB:173:PRO:HD3	1:PB:380:ARG:NH1	2.32	0.45
1:PB:328:GLU:O	1:PB:332:ASN:ND2	2.48	0.45
2:PE:26:LEU:HD22	2:PE:363:VAL:HG12	1.98	0.45
1:PF:165:MET:HE2	1:PF:200:MET:SD	2.56	0.45
2:PG:251:ASP:H	2:PG:254:GLU:CB	2.26	0.45
1:PH:21:TRP:CZ3	1:PH:50:TYR:HB3	2.52	0.45
1:PH:235:GLY:HA3	1:PH:366:THR:HG21	1.98	0.45
1:PH:377:MET:HA	1:PH:380:ARG:NH1	2.32	0.45
2:PI:34:GLY:O	2:PI:60:LYS:HB2	2.17	0.45
2:PI:185:TYR:CE1	2:PI:398:MET:HB2	2.51	0.45
1:PL:164:MET:HB3	1:PL:197:ASP:H	1.82	0.45
2:QH:338:LYS:HZ1	59:4b:8:LEU:HB3	1.82	0.45
1:QK:200:MET:SD	1:QK:368:ILE:HD12	2.57	0.45
2:QL:122:ILE:HG21	2:QL:157:LEU:HD21	1.99	0.45
2:QL:260:VAL:HG23	2:QL:265:ILE:O	2.17	0.45
2:R:252:LEU:HD13	2:R:255:PHE:CZ	2.52	0.45
1:RE:167:PHE:CZ	1:RE:233:MET:HG3	2.52	0.45
1:RE:187:LEU:HD11	1:RE:408:PHE:CE1	2.46	0.45
2:RF:156:ARG:HA	2:RF:159:VAL:HG12	1.99	0.45
2:RF:239:THR:HG23	2:RF:243:ARG:HE	1.82	0.45
2:RH:49:PHE:HD2	2:RH:53:PHE:HB2	1.80	0.45
2:RH:260:VAL:HG23	2:RH:265:ILE:O	2.17	0.45
1:RI:208:TYR:CE1	1:RI:225:LEU:HD11	2.52	0.45
1:RI:316:LEU:HD22	1:RI:352:SER:OG	2.17	0.45
2:RL:369:ALA:HA	41:2f:474:GLN:OE1	2.17	0.45
1:S:158:GLU:OE2	61:3w:126:ARG:NE	2.50	0.45
2:SA:259:LEU:HD11	2:SA:378:ILE:HG13	1.98	0.45
2:SA:317:LEU:HG	2:SA:377:MET:SD	2.57	0.45
2:SC:36:MET:HE3	2:SC:61:HIS:NE2	2.32	0.45
1:SD:202:ILE:HD11	1:SD:268:MET:HG3	1.99	0.45
2:SE:185:TYR:O	2:SE:189:LEU:HD13	2.17	0.45
2:SG:197:HIS:HE1	57:3g:163:LEU:HD21	1.81	0.45
1:SH:109:GLY:O	1:SH:113:ILE:N	2.36	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SH:344:TRP:CD1	2:SI:401:LYS:HZ1	2.34	0.45
2:SI:209:ILE:O	2:SI:213:THR:OG1	2.29	0.45
2:SI:223:SER:OG	2:SI:224:TYR:N	2.50	0.45
2:SK:180:ALA:HB3	2:SK:183:GLU:HB2	1.99	0.45
1:T:239:CYS:HG	1:T:248:SER:HG	1.63	0.45
2:TA:93:VAL:HG11	2:TA:117:LEU:HD11	1.99	0.45
1:TD:46:ARG:HB2	1:TD:241:ARG:HA	1.98	0.45
2:TG:79:ARG:HH22	2:TG:94:SER:HB3	1.80	0.45
2:TG:295:VAL:HG11	2:TG:377:MET:HB2	1.98	0.45
2:TI:51:THR:HG21	2:TI:243:ARG:HG2	1.98	0.45
1:TJ:273:LEU:O	1:TJ:292:GLN:NE2	2.49	0.45
1:TJ:305:PRO:HA	1:TJ:373:CYS:SG	2.56	0.45
2:UC:26:LEU:HD12	2:UC:363:VAL:HG12	1.99	0.45
1:UD:86:ARG:HG3	1:VD:281:TYR:HB3	1.99	0.45
1:UD:133:PHE:CD2	1:UD:155:LEU:HD13	2.52	0.45
2:UE:326:LYS:HB3	1:UF:212:PHE:HZ	1.80	0.45
2:UG:399:TYR:OH	2:UG:415:GLU:OE2	2.24	0.45
1:UH:247:ASN:H	2:UI:11:GLN:HE22	1.64	0.45
2:UI:17:GLY:HA2	2:UI:20:CYS:SG	2.55	0.45
2:VA:5:ILE:HD12	2:VA:125:LEU:HB3	1.98	0.45
2:VA:55:GLU:OE2	2:VA:61:HIS:NE2	2.50	0.45
1:VD:61:PRO:HD3	1:VD:84:LEU:HG	1.98	0.45
1:VD:106:TYR:OH	1:VD:407:GLU:OE2	2.32	0.45
2:VG:274:PRO:HD3	2:VG:374:ALA:HA	1.99	0.45
1:VH:246:LEU:HD13	2:VI:224:TYR:HE2	1.82	0.45
1:WB:272:PRO:HD3	1:WB:364:SER:HA	1.98	0.45
2:WC:251:ASP:H	2:WC:254:GLU:CB	2.28	0.45
1:WF:241:ARG:HH22	1:WF:318:ARG:HH12	1.65	0.45
2:WG:97:GLU:OE1	2:WG:105:ARG:NH2	2.34	0.45
1:WH:208:TYR:CE1	1:WH:225:LEU:HD11	2.51	0.45
1:WL:148:GLY:O	1:WL:152:ILE:HG12	2.17	0.45
2:WM:115:VAL:HG21	2:WM:156:ARG:HG3	1.99	0.45
2:WM:187:CYS:O	2:WM:191:THR:HG23	2.16	0.45
3:X:103:PHE:CE2	3:X:139:PHE:HB3	2.52	0.45
3:XC:25:TRP:CD2	3:XC:61:CYS:HB2	2.52	0.45
4:XO:222:LEU:O	4:XO:226:ILE:HG12	2.17	0.45
4:XO:222:LEU:HD12	4:XO:225:LEU:HD23	1.99	0.45
8:0G:238:LYS:HG2	8:0G:241:ARG:NH2	2.32	0.45
8:0G:275:ARG:HH21	8:0G:276:LYS:HD3	1.82	0.45
8:0I:235:LYS:O	8:0I:238:LYS:HG3	2.16	0.45
8:0J:261:SER:O	8:0J:264:GLN:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:0L:304:SER:OG	9:0L:322:CYS:O	2.33	0.45
9:0M:204:THR:HG21	9:0M:249:SER:HA	1.98	0.45
9:0O:164:HIS:NE2	9:0O:166:GLU:HB2	2.32	0.45
11:0U:96:ILE:HB	11:0U:147:LEU:HB2	1.99	0.45
12:0W:12:PHE:HB3	12:0W:77:ILE:HG23	1.99	0.45
16:0k:766:VAL:HG11	16:0k:827:ALA:HB2	1.98	0.45
17:0m:91:LYS:HA	17:0m:91:LYS:HD3	1.80	0.45
24:1I:447:VAL:HG21	24:1I:490:PHE:HD1	1.81	0.45
24:1J:746:LEU:O	24:1J:750:THR:HG23	2.16	0.45
25:1O:407:THR:N	25:1O:408:PRO:HD2	2.32	0.45
27:1S:119:LEU:HD21	27:1S:194:LEU:HD13	1.98	0.45
27:1T:799:PRO:HG2	27:1T:804:MET:HE2	1.99	0.45
28:1V:24:GLU:O	41:2c:359:MET:HE1	2.17	0.45
28:1X:159:GLN:OE1	28:1X:161:ARG:NE	2.50	0.45
28:1Y:49:GLY:C	28:1Y:50:LYS:HD3	2.42	0.45
29:1j:27:TRP:CD2	44:2v:342:PRO:HD3	2.52	0.45
31:1t:251:GLU:OE2	41:2l:214:GLY:HA3	2.17	0.45
32:2B:253:SER:OG	32:2B:254:SER:N	2.50	0.45
35:2O:25:ASN:N	35:2O:25:ASN:OD1	2.49	0.45
35:2O:28:HIS:HA	39:2X:165:ARG:NH2	2.32	0.45
36:2Q:38:ALA:HB1	36:2Q:105:GLU:HB3	1.99	0.45
36:2Q:137:MET:HB3	36:2Q:196:ALA:O	2.17	0.45
40:2Z:93:ARG:HA	40:2Z:93:ARG:HD2	1.77	0.45
41:2c:268:GLN:NE2	41:2c:272:ASP:OD2	2.50	0.45
41:2c:443:GLU:HG3	41:2c:447:ARG:HH12	1.82	0.45
43:2t:317:GLY:HA2	43:2t:320:MET:HE2	1.99	0.45
57:3h:144:LEU:O	57:3h:148:VAL:HG23	2.17	0.45
57:3i:114:ASP:HA	57:3i:117:GLN:HG3	1.98	0.45
64:5B:130:ARG:NH2	64:5B:133:GLU:OE2	2.48	0.45
66:5L:59:TRP:HB3	66:5L:72:LYS:HB2	1.98	0.45
66:5L:160:SER:OG	66:5L:163:ILE:O	2.32	0.45
67:5P:22:PHE:HA	67:5P:55:GLY:HA3	1.98	0.45
67:5P:75:ARG:HG2	67:5P:106:THR:HG22	1.99	0.45
2:AA:174:SER:OG	2:AA:177:VAL:O	2.29	0.45
2:AA:422:ARG:NH1	2:AA:426:ALA:HB2	2.31	0.45
1:AB:314:SER:OG	1:AB:368:ILE:HB	2.16	0.45
2:AC:420:GLU:OE1	3:XA:109:GLN:HA	2.17	0.45
2:AC:431:ASP:HB2	3:XA:117:PHE:HD2	1.82	0.45
1:AH:77:ARG:HG2	1:AH:77:ARG:HH11	1.82	0.45
2:AI:191:THR:HG21	2:AI:425:LEU:HD21	1.99	0.45
2:AI:252:LEU:HA	2:AI:255:PHE:CE1	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:242:PHE:HB2	1:AJ:354:CYS:SG	2.57	0.45
2:AM:430:LYS:HZ2	3:XF:102:ARG:NH1	2.15	0.45
2:BA:131:GLY:HA3	1:BB:94:GLN:HE21	1.82	0.45
1:BB:244:GLY:HA3	1:BB:354:CYS:HA	1.98	0.45
1:BD:163:ILE:HD11	1:BD:251:ARG:HD3	1.99	0.45
1:BF:165:MET:CE	1:BF:250:LEU:HD12	2.41	0.45
2:BG:204:LEU:HD22	2:BG:231:ILE:HD12	1.98	0.45
2:BI:101:ASN:HA	2:BI:144:GLY:HA3	1.99	0.45
2:BI:396:ASP:OD2	2:BI:422:ARG:NH2	2.49	0.45
1:BJ:203:ASP:HB2	1:BJ:301:GLN:OE1	2.17	0.45
1:BJ:255:VAL:HG11	2:BK:100:ALA:O	2.17	0.45
2:BK:402:ARG:HB3	2:BK:405:VAL:HG11	1.98	0.45
2:BM:110:ILE:O	2:BM:113:GLU:HG2	2.18	0.45
1:BN:101:TRP:HB3	1:BN:398:TYR:HE2	1.81	0.45
2:C:109:THR:O	2:C:112:LYS:NZ	2.40	0.45
2:CD:39:ASP:OD2	2:CD:40:LYS:N	2.50	0.45
2:CD:316:CYS:SG	2:CD:378:ILE:HB	2.57	0.45
1:CE:245:GLN:O	2:CF:11:GLN:NE2	2.50	0.45
1:CG:190:HIS:CE1	1:CG:191:GLN:HG2	2.52	0.45
2:CH:40:LYS:NZ	24:1I:256:ARG:HH11	2.08	0.45
2:CJ:211:ASP:OD2	2:CJ:212:LEU:N	2.49	0.45
1:CM:263:LEU:HD11	1:CM:425:TYR:HD2	1.81	0.45
2:D:21:TRP:CZ3	2:D:52:PHE:HB3	2.51	0.45
2:D:262:TYR:HB2	2:D:265:ILE:HG12	1.99	0.45
2:DB:313:MET:HE2	2:DB:382:THR:HG23	1.97	0.45
2:DF:51:THR:HG21	2:DF:243:ARG:HG2	1.98	0.45
1:DG:198:GLU:HA	1:DG:264:HIS:HB2	1.99	0.45
2:DH:155:GLU:HG2	2:DH:197:HIS:CD2	2.51	0.45
2:DH:431:ASP:OD1	2:DH:432:TYR:N	2.50	0.45
1:DI:107:THR:OG1	1:DI:401:GLU:OE2	2.23	0.45
1:DK:186:THR:HG22	1:DK:411:ALA:HB1	1.97	0.45
1:DK:200:MET:HE3	1:DK:268:MET:SD	2.57	0.45
2:DL:1:MET:HE3	2:DL:2:ARG:H	1.81	0.45
1:DM:167:PHE:CD2	1:DM:233:MET:HE3	2.52	0.45
2:EC:188:VAL:HG11	2:EC:395:PHE:CD1	2.52	0.45
2:EC:422:ARG:NH1	2:EC:426:ALA:HB2	2.32	0.45
1:ED:255:VAL:HG23	2:EE:407:TRP:CG	2.51	0.45
2:EE:387:VAL:O	2:EE:391:ILE:HG12	2.16	0.45
1:EF:91:ILE:HG22	1:EF:112:LEU:HD21	1.99	0.45
1:EF:170:ILE:HD13	1:EF:201:CYS:SG	2.57	0.45
1:EH:253:LEU:O	1:EH:257:LEU:HB2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EI:274:PRO:HG2	2:EI:371:VAL:HG21	1.99	0.45
1:EJ:321:MET:HB3	1:EJ:363:MET:HE2	1.98	0.45
1:F:74:ASP:OD1	1:F:77:ARG:NH2	2.50	0.45
1:F:270:PHE:O	1:F:298:ASN:ND2	2.48	0.45
2:FA:229:ARG:HD2	2:FA:363:VAL:HG21	1.99	0.45
2:FA:270:THR:HG23	2:FA:302:LEU:HB2	1.98	0.45
1:FB:247:ASN:HD21	2:FC:71:GLU:CD	2.25	0.45
2:FE:69:ASP:OD1	2:FE:71:GLU:HG3	2.17	0.45
2:FE:142:GLY:HA2	2:FE:183:GLU:HG3	1.99	0.45
1:FF:22:GLU:HG3	1:FF:81:TYR:CE1	2.52	0.45
1:FJ:347:ASN:ND2	2:FK:178:SER:HB3	2.32	0.45
1:FL:154:LYS:HA	1:FL:157:GLU:HG3	1.99	0.45
1:GB:206:ALA:O	1:GB:210:ILE:HG12	2.17	0.45
1:GD:180:VAL:HG23	1:GD:184:ASN:HD21	1.82	0.45
2:GE:79:ARG:O	2:GE:84:ARG:HG2	2.16	0.45
2:GE:98:ASP:O	2:GE:105:ARG:NH1	2.50	0.45
2:GI:298:PRO:HA	2:GI:301:MET:HG3	1.99	0.45
1:GJ:325:GLU:OE2	2:GK:221:ARG:HA	2.17	0.45
1:GL:207:LEU:HD23	1:GL:207:LEU:HA	1.85	0.45
1:GL:291:GLN:NE2	1:GL:295:ASP:OD2	2.50	0.45
1:H:252:LYS:HA	2:HA:100:ALA:HB1	1.99	0.45
1:H:342:ILE:HD11	1:H:345:ILE:HD12	1.99	0.45
1:HF:8:GLN:CD	1:HF:17:GLY:HA3	2.42	0.45
2:HI:262:TYR:OH	1:HJ:391:ARG:O	2.28	0.45
1:HJ:33:THR:O	1:HJ:58:ARG:NH2	2.50	0.45
2:HK:109:THR:HA	2:HK:112:LYS:NZ	2.31	0.45
1:HL:161:ASP:O	1:HL:251:ARG:NH2	2.50	0.45
1:HL:245:GLN:O	2:HM:11:GLN:NE2	2.50	0.45
1:I:1:MET:SD	1:I:2:ARG:N	2.82	0.45
1:I:9:ALA:HA	1:I:66:MET:O	2.17	0.45
2:IA:134:GLY:HA2	2:IA:164:LYS:HG3	1.99	0.45
1:IB:200:MET:HE2	1:IB:200:MET:HB2	1.71	0.45
1:IB:360:GLY:HA2	38:2U:187:GLN:NE2	2.32	0.45
1:IF:318:ARG:HB3	1:IF:357:PRO:HA	1.97	0.45
2:IG:209:ILE:O	2:IG:213:THR:HG22	2.16	0.45
2:IG:279:GLU:HA	2:IG:282:TYR:HE1	1.82	0.45
1:IJ:36:TYR:OH	1:IJ:40:SER:O	2.35	0.45
1:IJ:156:ARG:HH21	1:IJ:164:MET:HG3	1.82	0.45
1:IL:27:GLU:O	1:IL:43:GLN:NE2	2.50	0.45
1:JG:99:ASN:HD21	1:JG:178:THR:HG21	1.82	0.45
2:JJ:346:TRP:CG	1:JK:391:ARG:HD2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JL:177:VAL:N	2:JL:207:GLU:OE2	2.49	0.45
2:JL:234:VAL:O	2:JL:237:SER:OG	2.24	0.45
2:KB:238:LEU:HD12	2:KB:318:MET:HE2	1.98	0.45
1:KC:242:PHE:HB2	1:KC:354:CYS:SG	2.57	0.45
1:KC:310:TYR:HA	1:KC:371:ASN:HA	1.99	0.45
1:KC:327:ASP:OD1	1:KC:328:GLU:N	2.50	0.45
1:KE:247:ASN:H	2:KF:11:GLN:NE2	2.15	0.45
2:KH:60:LYS:CG	23:1E:183:ARG:HH21	2.07	0.45
2:KH:252:LEU:HD13	2:KH:255:PHE:HE2	1.81	0.45
1:KI:165:MET:HE1	1:KI:236:VAL:HG21	1.98	0.45
1:KI:244:GLY:H	1:KI:247:ASN:HD21	1.64	0.45
1:KI:378:PHE:CD1	1:KI:415:MET:HE1	2.52	0.45
2:KL:18:ASN:ND2	52:3U:388:LYS:HD2	2.32	0.45
2:KL:245:ASP:OD1	49:3Q:552:ARG:HB2	2.17	0.45
2:LB:320:ARG:O	2:LB:373:ARG:HA	2.16	0.45
1:LE:293:MET:CG	1:LE:367:PHE:HB2	2.47	0.45
2:LF:257:THR:HG1	1:LG:397:TRP:CD1	2.35	0.45
1:LG:267:MET:HE1	1:LG:305:PRO:HG3	1.99	0.45
2:LH:254:GLU:HA	1:LI:98:GLY:HA2	1.99	0.45
2:LL:370:LYS:HD3	23:1E:66:ALA:HB1	1.98	0.45
1:LM:198:GLU:OE2	1:LM:200:MET:HE3	2.16	0.45
1:M:141:GLY:O	1:M:145:SER:OG	2.32	0.45
1:M:184:ASN:OD1	1:M:398:TYR:OH	2.20	0.45
2:MA:248:LEU:HB2	2:MA:355:ILE:H	1.82	0.45
1:MD:180:VAL:HG23	1:MD:184:ASN:HD21	1.81	0.45
2:ME:392:ASP:OD2	2:ME:425:LEU:HD22	2.17	0.45
2:MG:251:ASP:H	2:MG:254:GLU:CB	2.30	0.45
2:MG:285:GLN:HG2	23:1A:60:MET:HG2	1.99	0.45
1:MH:344:TRP:H	1:MH:344:TRP:CD1	2.35	0.45
2:MI:70:LEU:HD21	2:MI:114:ILE:HG21	1.99	0.45
2:MK:109:THR:OG1	2:MK:110:ILE:HD12	2.17	0.45
2:MM:252:LEU:HA	2:MM:255:PHE:CZ	2.51	0.45
1:N:35:THR:HG23	1:N:37:GLN:HE22	1.82	0.45
1:N:180:VAL:O	1:N:180:VAL:HG12	2.17	0.45
2:NA:139:HIS:CE1	2:NA:170:THR:HG22	2.52	0.45
2:NC:256:GLN:HE22	1:ND:397:TRP:HH2	1.64	0.45
2:NI:291:ILE:O	2:NI:295:VAL:HG23	2.17	0.45
2:NM:156:ARG:HA	2:NM:159:VAL:HG22	1.99	0.45
2:OC:105:ARG:HG3	2:OC:411:GLU:HG3	1.98	0.45
1:OD:350:LYS:HA	2:OE:179:THR:O	2.17	0.45
1:OL:169:VAL:HG22	1:OL:202:ILE:HB	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:173:PRO:HD2	1:P:380:ARG:HH22	1.82	0.45
2:PA:279:GLU:HA	2:PA:282:TYR:HE1	1.82	0.45
2:PE:22:GLU:OE1	2:PE:83:TYR:OH	2.32	0.45
2:PE:177:VAL:HB	2:PE:207:GLU:HG3	1.99	0.45
2:PE:434:GLU:HG3	55:3b:26:LEU:HD22	1.99	0.45
2:PG:212:LEU:HD21	2:PG:275:VAL:HG11	1.99	0.45
1:PH:172:SER:HB2	1:PH:203:ASP:OD2	2.17	0.45
2:PK:93:VAL:HG12	2:PK:114:ILE:HD11	1.99	0.45
2:PM:36:MET:HE3	2:PM:61:HIS:NE2	2.31	0.45
2:PM:96:LYS:HG2	59:4b:104:TYR:CZ	2.52	0.45
1:QA:66:MET:HB3	1:QA:147:MET:HE3	1.98	0.45
1:QA:190:HIS:HB2	1:QA:414:ASN:ND2	2.32	0.45
1:QA:333:VAL:O	1:QA:337:ASN:HB2	2.18	0.45
2:QD:288:VAL:CG2	2:QD:323:VAL:HG23	2.47	0.45
2:QD:392:ASP:HB3	2:QD:425:LEU:HD23	1.99	0.45
1:QE:296:ALA:HA	1:QE:299:MET:HE2	1.99	0.45
2:QF:195:LEU:HD22	2:QF:267:PHE:HZ	1.82	0.45
2:R:430:LYS:O	2:R:434:GLU:HB2	2.17	0.45
2:RB:293:ASN:O	2:RB:297:GLU:HG2	2.16	0.45
2:RD:66:LEU:HD13	2:RD:122:ILE:CD1	2.47	0.45
2:RH:21:TRP:CZ2	2:RH:65:CYS:HB3	2.52	0.45
1:RK:8:GLN:HE21	1:RK:17:GLY:HA3	1.82	0.45
2:RL:364:PRO:HB2	28:1Y:152:PRO:HB2	1.98	0.45
2:SC:203:MET:O	2:SC:204:LEU:HD22	2.17	0.45
2:SC:359:PRO:HG2	28:1U:166:PRO:HB2	1.99	0.45
2:SE:123:ARG:HD3	2:SE:123:ARG:O	2.17	0.45
1:SJ:378:PHE:CE2	1:SJ:418:LEU:HD23	2.52	0.45
1:T:292:GLN:HG2	1:T:298:ASN:HD22	1.81	0.45
1:T:316:LEU:HB2	1:T:366:THR:HG22	1.99	0.45
1:TB:248:SER:HA	1:TB:252:LYS:HZ2	1.81	0.45
1:TB:322:SER:HB2	2:TC:223:SER:HB2	1.99	0.45
2:TC:20:CYS:HB3	2:TC:24:PHE:CE2	2.52	0.45
2:TE:98:ASP:OD1	2:TE:99:ALA:N	2.48	0.45
2:TE:342:GLN:HE21	58:3m:169:ARG:NH1	2.15	0.45
2:TG:265:ILE:HG23	2:TG:432:TYR:CZ	2.52	0.45
2:TG:295:VAL:CG1	2:TG:377:MET:HB2	2.47	0.45
2:TI:69:ASP:OD2	2:TI:70:LEU:N	2.50	0.45
2:TI:329:ASN:ND2	1:TJ:175:VAL:HA	2.31	0.45
1:TJ:267:MET:HE1	1:TJ:373:CYS:SG	2.57	0.45
2:TK:121:ARG:HA	2:TK:121:ARG:HD3	1.78	0.45
2:TK:439:SER:HB3	1:TL:391:ARG:NH1	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TL:85:PHE:HB2	1:TL:90:PHE:CE2	2.52	0.45
1:U:50:TYR:CE2	1:U:241:ARG:HD3	2.51	0.45
1:U:161:ASP:O	1:U:251:ARG:NH2	2.50	0.45
2:UG:119:LEU:HB3	62:4B:268:TYR:CD2	2.52	0.45
2:UI:47:ASP:N	2:UI:47:ASP:OD1	2.49	0.45
1:UJ:290:THR:HB	1:UJ:329:GLN:NE2	2.32	0.45
2:UK:155:GLU:O	2:UK:159:VAL:HG23	2.17	0.45
2:UK:384:ILE:O	2:UK:387:VAL:HG22	2.16	0.45
1:VB:259:PRO:O	2:VC:406:HIS:CE1	2.70	0.45
1:VD:165:MET:HE1	1:VD:236:VAL:HG11	1.99	0.45
2:VG:105:ARG:NH1	2:VG:110:ILE:HG13	2.32	0.45
2:VG:275:VAL:O	2:VG:275:VAL:HG13	2.17	0.45
2:VG:352:LYS:HA	1:VH:177:ASP:O	2.17	0.45
2:VM:3:GLU:O	2:VM:133:GLN:N	2.35	0.45
2:VM:201:ALA:HB3	2:VM:267:PHE:HD1	1.81	0.45
2:VM:265:ILE:HG22	2:VM:380:ASN:HD21	1.82	0.45
1:W:27:GLU:OE1	1:W:234:SER:OG	2.34	0.45
1:W:101:TRP:CE3	1:W:187:LEU:HD13	2.51	0.45
1:WF:14:ASN:O	1:WF:18:SER:OG	2.29	0.45
1:WJ:159:TYR:HB3	1:WJ:162:ARG:HG3	1.99	0.45
2:WM:27:GLU:OE1	2:WM:243:ARG:NH2	2.50	0.45
2:WM:93:VAL:HG12	2:WM:114:ILE:HD11	1.99	0.45
3:X:49:ILE:O	3:X:50:MET:HE2	2.17	0.45
3:XC:50:MET:HA	3:XC:159:ASN:HD22	1.82	0.45
4:XM:9:ILE:HG12	9:0L:274:ASN:HB2	1.99	0.45
4:XO:150:VAL:HG13	4:XO:184:LEU:HD23	1.99	0.45
5:XP:133:ARG:HE	5:XP:177:GLU:CD	2.25	0.45
4:XR:233:GLY:O	4:XR:237:VAL:HG23	2.16	0.45
8:0I:39:ILE:HG23	13:0Z:207:TRP:HH2	1.82	0.45
9:0L:12:LEU:HD21	9:0L:15:ALA:HB2	1.99	0.45
9:0L:74:ARG:HH21	9:0L:120:GLU:HB3	1.81	0.45
9:0N:45:ILE:HD11	9:0N:57:PHE:CD2	2.52	0.45
9:0N:204:THR:HB	9:0N:250:THR:HG22	1.98	0.45
10:0S:468:GLU:HG2	10:0S:480:LEU:HD12	1.99	0.45
11:0U:125:ARG:NH1	11:0U:185:ILE:O	2.50	0.45
11:0U:307:ASP:HB2	11:0U:308:PRO:HD2	1.99	0.45
11:0U:332:LEU:HB3	19:0r:188:VAL:HB	1.99	0.45
16:0l:18:GLN:OE1	16:0l:56:HIS:N	2.42	0.45
16:0k:668:PHE:HB3	16:0k:680:GLN:CD	2.42	0.45
16:0k:720:LEU:O	16:0k:724:ARG:HG2	2.17	0.45
16:0k:723:VAL:HA	16:0k:726:VAL:HG22	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:0k:728:CYS:O	16:0k:732:SER:OG	2.19	0.45
17:0n:239:ILE:HA	17:0n:242:LYS:HD2	1.99	0.45
17:0o:395:GLN:HA	17:0o:398:GLU:OE1	2.16	0.45
19:0r:255:SER:OG	23:1E:188:GLN:HG2	2.17	0.45
19:0r:278:THR:N	23:1E:165:GLU:OE2	2.37	0.45
23:1D:68:ASP:OD2	49:3P:464:ILE:HD11	2.17	0.45
24:1H:456:ILE:HB	24:1H:471:PHE:HB3	1.99	0.45
24:1J:598:SER:OG	24:1J:599:TYR:N	2.50	0.45
24:1K:101:CYS:SG	24:1K:116:ARG:HB2	2.57	0.45
28:1h:17:THR:OG1	28:1h:22:ILE:HD11	2.17	0.45
31:1s:240:TYR:HA	31:1s:243:ILE:HG22	1.99	0.45
34:2L:44:MET:HE3	34:2L:44:MET:HB3	1.77	0.45
37:2S:127:HIS:CD2	37:2S:137:GLY:HA2	2.51	0.45
40:2Z:129:SER:O	40:2Z:133:ARG:HG2	2.16	0.45
40:2Z:156:ARG:HG2	40:2Z:156:ARG:HH11	1.82	0.45
41:2c:424:GLU:CD	41:2c:427:ARG:HH12	2.25	0.45
44:2v:248:ASP:N	44:2v:248:ASP:OD1	2.48	0.45
45:2y:253:LEU:O	45:2y:257:ARG:HG3	2.17	0.45
48:3G:96:PRO:HA	48:3G:100:ARG:HH21	1.82	0.45
49:3Q:353:ARG:HD3	49:3Q:363:LEU:HB2	1.99	0.45
57:3h:161:GLU:HG3	57:3h:165:LYS:NZ	2.32	0.45
63:4I:258:ILE:HA	63:4I:261:ARG:HG2	1.99	0.45
67:5O:25:VAL:HA	67:5O:53:ARG:HA	2.00	0.45
1:A:137:HIS:NE2	1:A:166:THR:OG1	2.47	0.44
2:AA:324:VAL:HG12	2:AA:326:LYS:H	1.81	0.44
1:AB:20:PHE:HA	1:AB:230:ALA:HB1	1.99	0.44
2:AE:402:ARG:HB2	5:XN:308:PRO:HB2	1.98	0.44
1:AF:102:ALA:HB2	1:AF:403:MET:HE3	1.98	0.44
1:AF:163:ILE:HG21	1:AF:250:LEU:HB3	1.99	0.44
2:AG:116:ASP:OD1	2:AG:116:ASP:N	2.50	0.44
1:AL:164:MET:HB3	1:AL:197:ASP:H	1.82	0.44
1:AL:364:SER:OG	1:AL:365:VAL:N	2.49	0.44
1:B:11:GLN:HA	1:B:72:THR:HG21	1.99	0.44
1:BB:67:ASP:OD1	1:BB:143:THR:HG21	2.17	0.44
1:BB:207:LEU:HD22	1:BB:300:MET:HB2	1.99	0.44
2:BC:53:PHE:HB3	2:BC:61:HIS:HB3	1.98	0.44
2:BE:32:PRO:HG3	2:BE:83:TYR:HE1	1.82	0.44
2:C:25:CYS:HB3	2:C:30:ILE:O	2.17	0.44
2:C:311:LYS:H	2:C:382:THR:HB	1.80	0.44
2:C:317:LEU:HD23	2:C:377:MET:HG2	1.97	0.44
2:CD:98:ASP:OD1	2:CD:98:ASP:N	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CE:290:THR:HA	1:CE:293:MET:HE2	1.98	0.44
1:CE:325:GLU:CD	2:CF:221:ARG:HG2	2.42	0.44
2:CF:71:GLU:OE1	2:CF:73:THR:OG1	2.34	0.44
2:CF:88:ASN:OD1	2:CF:89:PRO:HD2	2.17	0.44
2:CF:223:SER:OG	2:CF:224:TYR:N	2.49	0.44
1:CG:38:GLY:HA3	1:CG:43:GLN:NE2	2.32	0.44
2:CH:217:LEU:HD11	2:CH:368:LEU:HD23	1.99	0.44
1:CI:21:TRP:HZ3	1:CI:50:TYR:HB3	1.82	0.44
1:CI:374:ILE:O	1:CI:377:MET:HG3	2.17	0.44
1:CK:331:LEU:HD21	2:CL:176:GLN:HB3	1.99	0.44
1:CM:66:MET:SD	1:CM:116:VAL:HG21	2.57	0.44
1:CM:110:ALA:O	1:CM:113:ILE:HG22	2.17	0.44
2:D:201:ALA:O	2:D:268:VAL:HG22	2.17	0.44
1:DA:133:PHE:HB2	1:DA:164:MET:SD	2.57	0.44
1:DC:200:MET:HG2	1:DC:268:MET:CE	2.47	0.44
1:DC:248:SER:HA	1:DC:252:LYS:HG3	1.99	0.44
2:DD:6:CYS:O	2:DD:65:CYS:HA	2.17	0.44
2:DF:384:ILE:O	2:DF:387:VAL:HG22	2.17	0.44
2:DL:206:ASN:OD1	71:DL:501:GTP:O2'	2.20	0.44
2:DL:293:ASN:O	2:DL:297:GLU:HG2	2.17	0.44
1:DM:224:ASP:O	1:DM:228:LEU:HD12	2.17	0.44
1:E:19:LYS:HG3	1:E:226:ASN:CB	2.45	0.44
1:E:234:SER:OG	1:E:241:ARG:NH2	2.50	0.44
1:EB:246:LEU:HD11	1:EB:352:SER:HA	2.00	0.44
1:EB:247:ASN:ND2	2:EC:73:THR:OG1	2.50	0.44
1:EB:320:ARG:HH22	26:1Q:543:SER:HB3	1.81	0.44
2:EC:251:ASP:H	2:EC:254:GLU:HB2	1.82	0.44
1:EJ:66:MET:HE2	1:EJ:147:MET:HE2	1.99	0.44
1:EL:141:GLY:N	69:EL:500:GDP:O2A	2.29	0.44
1:EL:156:ARG:HD3	1:EL:195:ASN:O	2.17	0.44
1:F:218:THR:HG23	24:1H:462:ARG:NH2	2.32	0.44
1:F:415:MET:HA	1:F:418:LEU:CD2	2.46	0.44
2:FA:187:CYS:O	2:FA:191:THR:OG1	2.33	0.44
1:FB:200:MET:HB3	1:FB:268:MET:SD	2.56	0.44
1:FD:316:LEU:HB2	1:FD:366:THR:OG1	2.17	0.44
1:FF:11:GLN:N	69:FF:500:GDP:O1B	2.40	0.44
1:FF:207:LEU:HD13	1:FF:225:LEU:HB3	1.97	0.44
1:FF:311:LEU:HA	1:FF:342:ILE:HD12	1.97	0.44
1:FH:54:SER:OG	1:FH:55:SER:N	2.48	0.44
1:FH:268:MET:HE3	1:FH:269:GLY:O	2.16	0.44
2:FK:377:MET:SD	2:FK:379:ALA:HB2	2.57	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GB:316:LEU:HB2	1:GB:366:THR:OG1	2.17	0.44
1:GD:65:LEU:HD12	1:GD:90:PHE:CZ	2.52	0.44
1:GD:186:THR:HB	1:GD:408:PHE:CE1	2.53	0.44
1:GD:256:ASN:ND2	1:GD:350:LYS:HD2	2.32	0.44
1:GF:257:LEU:HD11	1:GF:314:SER:HB3	2.00	0.44
1:GF:267:MET:HE1	1:GF:371:ASN:HB3	1.98	0.44
1:GF:318:ARG:HE	1:GF:358:PRO:HD3	1.83	0.44
1:GH:198:GLU:HB2	1:GH:266:PHE:HE1	1.82	0.44
1:GH:204:ASN:OD1	69:GH:500:GDP:O2'	2.35	0.44
1:GJ:406:MET:O	1:GJ:409:THR:OG1	2.27	0.44
2:GK:258:ASN:ND2	2:GK:352:LYS:HE3	2.31	0.44
1:GL:182:PRO:O	1:GL:186:THR:HG22	2.17	0.44
1:GL:329:GLN:HA	1:GL:329:GLN:OE1	2.17	0.44
2:HA:84:ARG:NH2	2:HA:85:GLN:HE22	2.14	0.44
2:HA:324:VAL:HG13	2:HA:327:ASP:H	1.82	0.44
2:HC:123:ARG:NH2	2:IC:297:GLU:HG3	2.32	0.44
2:HC:205:ASP:OD1	2:HC:303:THR:HA	2.17	0.44
1:HF:315:ALA:HA	1:HF:366:THR:O	2.17	0.44
1:HL:170:ILE:N	1:HL:202:ILE:O	2.48	0.44
2:HM:155:GLU:O	2:HM:159:VAL:HG23	2.16	0.44
2:HM:228:ASN:OD1	71:HM:501:GTP:N1	2.38	0.44
2:HM:383:ALA:O	2:HM:386:GLU:HG3	2.17	0.44
1:I:356:ILE:HD13	38:2U:92:TRP:HE1	1.82	0.44
2:IE:90:GLU:HG2	2:IE:91:GLN:HE22	1.81	0.44
2:IE:124:LYS:HA	2:IE:127:ASP:OD2	2.17	0.44
2:IE:223:SER:OG	2:IE:224:TYR:N	2.50	0.44
2:IE:224:TYR:HA	2:IE:227:VAL:HG22	1.99	0.44
1:IF:42:LEU:HA	1:IF:45:GLU:CG	2.47	0.44
1:IH:20:PHE:HA	1:IH:230:ALA:HB1	1.99	0.44
1:IJ:172:SER:HG	1:IJ:174:ARG:HH12	1.64	0.44
1:IL:331:LEU:HD21	2:IM:176:GLN:HG3	1.98	0.44
2:J:9:ILE:HG22	2:J:146:GLY:HA2	1.99	0.44
1:JA:257:LEU:HD21	1:JA:314:SER:HB2	1.98	0.44
2:JF:207:GLU:HB3	2:JF:304:LYS:NZ	2.33	0.44
2:JL:5:ILE:HD11	2:JL:129:CYS:SG	2.58	0.44
2:JN:18:ASN:ND2	15:0g:50:TYR:HE2	2.15	0.44
2:K:326:LYS:N	2:K:326:LYS:HD3	2.32	0.44
1:KE:325:GLU:HA	1:KE:329:GLN:OE1	2.17	0.44
2:KF:23:LEU:O	2:KF:27:GLU:HG2	2.16	0.44
1:KI:332:ASN:HA	1:KI:336:LYS:HZ3	1.81	0.44
1:KK:19:LYS:HG3	1:KK:226:ASN:CB	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KL:47:ASP:OD1	49:3Q:549:ARG:HD3	2.16	0.44
2:KL:258:ASN:HD21	1:KM:178:THR:HB	1.81	0.44
2:KN:295:VAL:HG21	2:KN:375:VAL:HG13	2.00	0.44
1:LC:131:GLN:HE22	1:LC:250:LEU:HB2	1.82	0.44
1:LC:143:THR:O	1:LC:147:MET:HB3	2.17	0.44
1:LC:322:SER:HB2	2:LD:222:PRO:O	2.17	0.44
1:LE:268:MET:HE1	1:LE:368:ILE:HG12	1.99	0.44
1:LG:135:LEU:HD12	1:LG:151:LEU:HD23	2.00	0.44
1:LI:290:THR:HG21	1:LI:329:GLN:HB3	1.98	0.44
1:LI:392:LYS:C	1:LI:395:LEU:HD23	2.42	0.44
2:LJ:387:VAL:O	2:LJ:391:ILE:HG12	2.17	0.44
2:LL:39:ASP:OD1	44:2w:404:LYS:NZ	2.49	0.44
2:LL:212:LEU:HD21	2:LL:275:VAL:CG1	2.47	0.44
1:LO:186:THR:HG22	1:LO:411:ALA:HB1	1.99	0.44
1:LO:385:PHE:HZ	1:LO:408:PHE:HB3	1.80	0.44
2:MC:146:GLY:N	71:MC:501:GTP:O2B	2.50	0.44
1:MD:174:ARG:NH2	1:MD:205:GLU:HG2	2.32	0.44
1:MD:344:TRP:CD2	2:ME:401:LYS:HG3	2.53	0.44
1:MF:356:ILE:HD12	54:3a:27:TYR:CD1	2.52	0.44
2:MG:392:ASP:HB3	2:MG:425:LEU:HD23	1.99	0.44
1:ML:145:SER:HB2	1:ML:188:SER:OG	2.16	0.44
2:MM:304:LYS:HA	2:MM:304:LYS:HD3	1.82	0.44
2:MM:324:VAL:HG13	2:MM:327:ASP:H	1.82	0.44
2:MM:326:LYS:HZ3	1:MN:208:TYR:CA	2.30	0.44
2:NA:154:LEU:HD23	2:NA:154:LEU:HA	1.83	0.44
1:NB:116:VAL:HA	1:NB:119:VAL:HG12	1.99	0.44
1:ND:323:THR:HG21	2:NE:224:TYR:CE1	2.52	0.44
2:NG:201:ALA:O	2:NG:268:VAL:HG22	2.17	0.44
1:NH:66:MET:HG3	1:NH:66:MET:O	2.17	0.44
1:NH:113:ILE:HA	1:NH:116:VAL:HG22	1.99	0.44
2:NI:260:VAL:HB	1:NJ:397:TRP:HH2	1.82	0.44
2:NK:115:VAL:HG21	2:NK:152:LEU:HG	1.98	0.44
1:O:173:PRO:HA	1:O:176:SER:HB3	1.98	0.44
2:OA:68:LEU:HD23	2:OA:93:VAL:HB	1.99	0.44
2:OA:116:ASP:OD1	2:OA:117:LEU:N	2.50	0.44
2:OC:21:TRP:CZ2	2:OC:65:CYS:HB3	2.52	0.44
1:OD:233:MET:O	1:OD:236:VAL:HG12	2.16	0.44
1:OF:316:LEU:HB2	1:OF:366:THR:OG1	2.17	0.44
1:OF:324:LYS:HD2	2:OG:210:TYR:HB3	1.98	0.44
1:OF:350:LYS:HA	2:OG:179:THR:O	2.16	0.44
2:OG:201:ALA:HB3	2:OG:267:PHE:CD1	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OG:212:LEU:O	2:OG:216:SER:OG	2.22	0.44
2:OG:264:ARG:HG3	2:OG:264:ARG:NH1	2.32	0.44
2:OK:329:ASN:OD1	1:OL:175:VAL:HA	2.17	0.44
1:OL:267:MET:HG2	1:OL:299:MET:SD	2.57	0.44
1:P:267:MET:O	1:P:368:ILE:HA	2.16	0.44
2:PC:189:LEU:HD13	2:PC:413:MET:HE1	1.99	0.44
2:PC:258:ASN:HD21	1:PD:178:THR:HA	1.83	0.44
2:PE:76:ASP:HA	2:PE:79:ARG:HB2	1.99	0.44
1:PH:391:ARG:NH1	58:3m:21:ARG:HH21	2.15	0.44
2:PI:387:VAL:O	2:PI:391:ILE:HG12	2.17	0.44
2:PK:338:LYS:HZ3	2:PK:340:THR:HG1	1.60	0.44
1:PL:320:ARG:NH2	41:2l:276:GLN:OE1	2.50	0.44
1:PL:331:LEU:HD11	2:PM:176:GLN:C	2.42	0.44
2:PM:65:CYS:O	2:PM:125:LEU:HD11	2.18	0.44
2:Q:172:TYR:HD2	2:Q:203:MET:HG2	1.82	0.44
2:Q:432:TYR:HA	2:Q:435:VAL:HG22	1.99	0.44
2:QB:254:GLU:HG3	2:QB:352:LYS:HZ3	1.82	0.44
1:QE:345:ILE:O	1:QE:348:ASN:ND2	2.49	0.44
2:QH:6:CYS:O	2:QH:65:CYS:HA	2.17	0.44
1:QI:203:ASP:OD2	1:QI:205:GLU:HB2	2.17	0.44
1:QK:249:ASP:O	1:QK:253:LEU:HG	2.17	0.44
2:R:3:GLU:H	2:R:3:GLU:CD	2.26	0.44
1:RA:85:PHE:HB2	1:RA:90:PHE:CE1	2.52	0.44
2:RB:265:ILE:HG22	2:RB:380:ASN:HD21	1.82	0.44
1:RC:19:LYS:HA	1:RC:22:GLU:OE1	2.17	0.44
1:RC:189:VAL:HG21	1:RC:415:MET:SD	2.58	0.44
1:RC:207:LEU:HB3	1:RC:225:LEU:HG	1.99	0.44
2:RD:21:TRP:CZ2	2:RD:65:CYS:HB3	2.52	0.44
1:RE:132:GLY:HA2	1:RE:162:ARG:HB3	1.98	0.44
1:RE:324:LYS:CD	2:RF:222:PRO:HD2	2.47	0.44
2:RF:435:VAL:HG12	58:3m:99:LEU:HD11	1.98	0.44
1:RK:186:THR:HG23	1:RK:415:MET:HG3	1.99	0.44
2:RL:246:GLY:HA2	2:RL:357:TYR:CD2	2.52	0.44
1:S:330:MET:HG2	1:S:349:ILE:HG21	1.99	0.44
2:SA:263:PRO:CD	56:3d:216:ARG:HH22	2.29	0.44
1:SB:61:PRO:HG3	1:SB:84:LEU:HD23	1.99	0.44
1:SB:236:VAL:HG23	1:SB:368:ILE:HD11	1.98	0.44
1:SB:242:PHE:HB2	1:SB:354:CYS:SG	2.58	0.44
1:SF:404:ASP:OD1	1:SF:405:GLU:N	2.50	0.44
1:SH:101:TRP:CD1	1:SH:146:GLY:HA2	2.51	0.44
1:SH:180:VAL:HG12	1:SH:180:VAL:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SI:137:VAL:HG21	2:SI:154:LEU:HD21	1.98	0.44
1:SJ:210:ILE:HG22	1:SJ:215:LEU:HD23	2.00	0.44
2:SK:167:LEU:HD21	2:SK:255:PHE:HZ	1.82	0.44
1:TB:294:PHE:CE1	1:TB:333:VAL:HG21	2.52	0.44
2:TC:1:MET:O	2:TC:50:ASN:ND2	2.50	0.44
2:TC:260:VAL:HG23	2:TC:265:ILE:O	2.17	0.44
2:TE:212:LEU:HD21	2:TE:275:VAL:HG11	1.99	0.44
2:TI:101:ASN:ND2	2:TI:143:GLY:HA2	2.32	0.44
1:TJ:2:ARG:HH12	2:TK:71:GLU:HB2	1.82	0.44
1:TJ:242:PHE:HB2	1:TJ:354:CYS:SG	2.57	0.44
2:TK:26:LEU:HD13	2:TK:363:VAL:HA	1.99	0.44
1:TL:3:GLU:OE2	1:TL:127:CYS:HB3	2.17	0.44
1:UD:41:ASP:O	1:UD:45:GLU:HG3	2.17	0.44
2:UE:152:LEU:HD12	2:UE:155:GLU:OE2	2.17	0.44
2:UG:137:VAL:HG11	2:UG:154:LEU:HD11	2.00	0.44
2:UG:247:ALA:HB3	2:UG:355:ILE:HB	1.98	0.44
1:UH:20:PHE:HA	1:UH:230:ALA:HB1	1.98	0.44
2:UI:89:PRO:HD2	2:VI:280:LYS:HZ1	1.82	0.44
1:UJ:272:PRO:HD3	1:UJ:364:SER:HA	1.99	0.44
2:UK:286:LEU:HD23	2:UK:286:LEU:HA	1.84	0.44
1:V:249:ASP:H	1:V:252:LYS:HB3	1.82	0.44
1:VB:8:GLN:NE2	1:VB:17:GLY:HA3	2.33	0.44
2:VC:406:HIS:HA	2:VC:409:VAL:HG22	1.98	0.44
1:VD:148:GLY:O	1:VD:152:ILE:HG12	2.16	0.44
1:VD:377:MET:HG2	1:VD:380:ARG:NH2	2.31	0.44
1:VF:234:SER:O	1:VF:241:ARG:NH1	2.32	0.44
1:VL:318:ARG:HG2	1:VL:354:CYS:HB3	2.00	0.44
2:VM:75:VAL:HG21	2:VM:94:SER:HB2	1.99	0.44
2:WA:139:HIS:O	2:WA:170:THR:HA	2.17	0.44
2:WA:255:PHE:HA	2:WA:258:ASN:ND2	2.33	0.44
2:WC:188:VAL:HG21	2:WC:395:PHE:CD1	2.52	0.44
1:WD:213:ARG:HG3	1:WD:297:LYS:CE	2.44	0.44
1:WH:170:ILE:HG12	1:WH:201:CYS:HB2	1.97	0.44
1:WL:44:LEU:HD11	21:0w:35:GLY:HA2	1.99	0.44
1:WL:255:VAL:HG11	2:WM:100:ALA:O	2.18	0.44
3:XB:68:THR:HG21	3:XB:152:LEU:HD23	1.99	0.44
3:XD:15:TYR:CE1	3:XD:17:ILE:HG12	2.52	0.44
4:XR:178:ARG:O	4:XR:182:LEU:HD23	2.16	0.44
6:0A:103:LYS:NZ	14:0d:221:VAL:H	2.16	0.44
6:0A:162:SER:OG	33:2I:286:PRO:HG2	2.18	0.44
7:0D:31:THR:O	7:0D:35:LEU:HG	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:0J:417:LYS:HD2	34:2L:84:GLU:HG2	2.00	0.44
9:0L:547:GLY:HA3	9:0L:553:LEU:HD11	1.99	0.44
9:0L:575:LYS:HE3	9:0L:577:TRP:HE1	1.81	0.44
9:0N:337:SER:HA	9:0N:602:PRO:HD2	1.99	0.44
13:0Y:148:VAL:O	13:0Y:152:MET:HG2	2.17	0.44
16:0l:284:PHE:HB3	16:0l:350:TYR:CE1	2.51	0.44
16:0k:796:HIS:HB3	16:0k:798:HIS:CD2	2.51	0.44
16:0k:900:ILE:O	16:0k:904:LEU:HD23	2.16	0.44
17:0n:23:GLU:O	17:0n:24:LEU:C	2.61	0.44
23:1A:102:LEU:HD22	26:1Q:23:LEU:HD11	2.00	0.44
24:1H:530:LYS:O	24:1H:533:ARG:HG2	2.17	0.44
24:1J:348:VAL:HG22	24:1J:357:LYS:HG3	1.98	0.44
24:1J:360:ASP:OD2	24:1J:361:TYR:N	2.50	0.44
24:1J:702:LEU:HB3	24:1J:704:LEU:HG	1.99	0.44
24:1K:506:LEU:HD12	24:1K:507:ASN:HB2	1.99	0.44
24:1K:729:TYR:HE1	24:1K:733:MET:HE3	1.82	0.44
25:1O:304:VAL:HG11	25:1O:363:PRO:HG3	1.99	0.44
31:1q:147:ALA:O	31:1q:151:LYS:HG2	2.17	0.44
22:1x:118:CYS:HG	22:1x:120:HIS:CD2	2.35	0.44
22:1y:191:GLN:O	22:1y:194:MET:HG3	2.17	0.44
33:2G:66:ALA:HB1	33:2G:85:LEU:HD11	1.98	0.44
33:2G:74:ASN:HA	33:2G:80:PRO:HG2	1.98	0.44
33:2H:92:TYR:CZ	33:2H:112:TYR:HB3	2.52	0.44
38:2V:87:HIS:CE1	38:2V:92:TRP:CD1	3.04	0.44
38:2V:178:ASN:O	38:2V:182:ILE:HG23	2.17	0.44
41:2i:468:ARG:HE	41:2i:468:ARG:HA	1.82	0.44
41:2o:180:GLN:HB2	41:2o:184:ARG:HH12	1.82	0.44
43:2t:167:LEU:O	43:2t:170:VAL:HG22	2.17	0.44
44:2w:116:LEU:HD23	44:2w:134:ILE:HD11	1.98	0.44
47:3D:317:LEU:HD12	47:3D:386:TRP:HH2	1.82	0.44
54:3Z:378:THR:HB	54:3Z:381:GLU:HB2	1.98	0.44
61:3w:169:ARG:HE	61:3w:169:ARG:HB2	1.58	0.44
28:4V:230:VAL:HG23	28:4V:266:TYR:HB3	1.98	0.44
64:5B:216:GLU:O	64:5B:220:GLN:HG2	2.17	0.44
65:5H:210:ALA:O	65:5H:214:GLU:OE1	2.35	0.44
66:5L:108:THR:OG1	66:5L:112:GLU:O	2.35	0.44
67:5P:63:TRP:HD1	67:5P:67:ILE:HD11	1.81	0.44
1:A:117:LEU:HA	1:A:120:CYS:SG	2.57	0.44
1:A:257:LEU:HD21	1:A:314:SER:HB2	1.99	0.44
1:AB:270:PHE:CD1	1:AB:366:THR:HG22	2.51	0.44
1:AF:324:LYS:HZ1	2:AG:210:TYR:C	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:246:LEU:HA	2:AI:11:GLN:NE2	2.32	0.44
2:AI:49:PHE:CE1	2:AI:55:GLU:HB2	2.52	0.44
2:AI:155:GLU:HG2	2:AI:197:HIS:ND1	2.33	0.44
2:AI:223:SER:OG	2:AI:224:TYR:N	2.50	0.44
2:AI:230:LEU:HD11	2:AI:275:VAL:HG21	1.98	0.44
2:AK:296:PHE:CE2	2:AK:377:MET:HE1	2.52	0.44
1:AL:186:THR:HG22	1:AL:411:ALA:HB1	1.99	0.44
1:AL:198:GLU:HB2	1:AL:266:PHE:CE2	2.45	0.44
2:BA:6:CYS:O	2:BA:65:CYS:HA	2.18	0.44
1:BB:235:GLY:HA3	1:BB:366:THR:HG21	1.99	0.44
1:BB:293:MET:HE1	1:BB:330:MET:HE1	1.98	0.44
1:BB:347:ASN:C	1:BB:347:ASN:HD22	2.25	0.44
1:BF:252:LYS:HZ1	2:BG:101:ASN:CG	2.25	0.44
2:BG:5:ILE:HG12	2:BG:132:LEU:HD13	2.00	0.44
2:BG:58:ALA:C	25:1O:270:LYS:HZ2	2.24	0.44
2:BG:182:VAL:HG22	2:BG:185:TYR:HB2	1.99	0.44
2:BG:250:VAL:HG21	2:BG:318:MET:HE1	1.99	0.44
2:BG:346:TRP:CD1	1:BH:391:ARG:HG3	2.52	0.44
1:BH:263:LEU:HD22	1:BH:422:TYR:CE1	2.52	0.44
1:BJ:404:ASP:OD1	1:BJ:404:ASP:N	2.49	0.44
2:BK:8:HIS:CE1	2:BK:17:GLY:HA3	2.52	0.44
2:BK:196:GLU:HG3	2:BK:197:HIS:CD2	2.52	0.44
1:BL:189:VAL:HG21	1:BL:415:MET:HE3	2.00	0.44
1:BL:200:MET:HB2	1:BL:268:MET:SD	2.58	0.44
2:C:257:THR:HA	1:CA:397:TRP:CH2	2.53	0.44
1:CA:171:PRO:HG3	1:CA:181:GLU:CG	2.48	0.44
2:CB:28:HIS:NE2	2:CB:243:ARG:HD2	2.32	0.44
2:CD:285:GLN:NE2	2:CD:287:SER:HB2	2.32	0.44
1:CI:10:GLY:O	1:CI:14:ASN:ND2	2.48	0.44
1:CI:156:ARG:HH22	1:CI:197:ASP:CG	2.25	0.44
2:D:175:PRO:HD3	2:D:304:LYS:HE2	1.98	0.44
2:D:367:ASP:HA	24:1H:734:ARG:NH1	2.23	0.44
1:DA:299:MET:HE1	1:DA:367:PHE:CE2	2.53	0.44
1:DC:204:ASN:HD21	69:DC:500:GDP:HN22	1.65	0.44
1:DE:130:LEU:O	1:DE:162:ARG:NE	2.51	0.44
1:DE:145:SER:OG	1:DE:188:SER:HB2	2.18	0.44
1:DE:230:ALA:HA	1:DE:233:MET:HB2	1.99	0.44
1:DG:10:GLY:HA2	1:DG:143:THR:OG1	2.17	0.44
1:DG:234:SER:O	1:DG:241:ARG:NH2	2.41	0.44
2:DL:175:PRO:HD2	2:DL:207:GLU:OE2	2.17	0.44
1:DM:330:MET:HA	1:DM:333:VAL:HG12	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EA:254:GLU:OE1	1:EB:98:GLY:HA2	2.17	0.44
2:EC:39:ASP:OD1	26:1Q:508:ARG:NE	2.49	0.44
1:ED:8:GLN:HG2	1:ED:17:GLY:HA3	1.99	0.44
1:ED:386:THR:O	1:ED:390:ARG:HG3	2.17	0.44
2:EE:195:LEU:HD11	2:EE:428:LEU:HD22	1.99	0.44
2:EI:213:THR:O	2:EI:217:LEU:HB2	2.17	0.44
2:EI:384:ILE:O	2:EI:387:VAL:HG22	2.18	0.44
2:EK:296:PHE:CZ	2:EK:335:ILE:HG21	2.52	0.44
1:EL:182:PRO:O	1:EL:186:THR:OG1	2.22	0.44
2:FA:3:GLU:OE2	2:FA:131:GLY:N	2.37	0.44
1:FB:172:SER:O	1:FB:176:SER:N	2.50	0.44
2:FE:219:ILE:HD11	2:FE:367:ASP:HB3	1.99	0.44
1:FH:100:ASN:HB3	1:FH:103:LYS:CB	2.48	0.44
2:FI:175:PRO:HB3	2:FI:390:ARG:NE	2.32	0.44
2:FI:397:LEU:HD23	2:FI:397:LEU:HA	1.88	0.44
1:FL:293:MET:HG2	1:FL:367:PHE:CD2	2.53	0.44
1:G:112:LEU:O	1:G:116:VAL:HG23	2.18	0.44
1:G:330:MET:SD	1:G:349:ILE:HG21	2.56	0.44
2:GA:216:SER:OG	2:GA:275:VAL:O	2.29	0.44
1:GF:32:PRO:HD2	10:0R:123:ILE:HD12	1.99	0.44
1:GF:203:ASP:HB2	1:GF:301:GLN:HE22	1.82	0.44
1:GF:306:ARG:HA	1:GF:340:TYR:HE2	1.82	0.44
2:GG:261:PRO:HA	1:GH:394:PHE:CD1	2.53	0.44
1:GJ:143:THR:O	1:GJ:147:MET:CB	2.65	0.44
2:GK:259:LEU:HD21	2:GK:268:VAL:HG11	1.99	0.44
1:GL:193:VAL:HA	1:GL:264:HIS:CE1	2.52	0.44
1:H:122:LYS:O	1:H:125:GLU:HG3	2.17	0.44
2:HA:9:ILE:HB	2:HA:139:HIS:HB3	1.98	0.44
2:HA:135:PHE:O	2:HA:136:MET:HE2	2.17	0.44
2:HA:176:GLN:NE2	2:HA:207:GLU:OE2	2.49	0.44
2:HA:213:THR:HA	2:HA:217:LEU:HD23	1.99	0.44
2:HC:305:CYS:SG	2:HC:306:ASP:N	2.90	0.44
2:HE:79:ARG:O	2:HE:84:ARG:HG2	2.18	0.44
2:HE:395:PHE:CD2	2:HE:422:ARG:HD3	2.53	0.44
1:HJ:286:VAL:HG22	1:HJ:329:GLN:HE22	1.82	0.44
2:HK:252:LEU:HA	2:HK:255:PHE:CE1	2.51	0.44
1:HL:385:PHE:CE2	1:HL:412:GLU:HB2	2.50	0.44
2:HM:90:GLU:O	2:HM:91:GLN:HG2	2.17	0.44
2:HM:265:ILE:HD12	2:HM:313:MET:HE1	1.99	0.44
2:HM:319:TYR:CD2	2:HM:323:VAL:HG21	2.52	0.44
2:IA:69:ASP:OD2	2:IA:71:GLU:HG2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IA:249:ASN:ND2	1:IB:69:GLU:OE2	2.50	0.44
1:IB:22:GLU:HG2	1:IB:81:TYR:CD1	2.52	0.44
2:IC:79:ARG:O	2:IC:84:ARG:HG2	2.17	0.44
2:IC:220:GLU:HG2	38:2U:235:THR:HG23	1.99	0.44
2:IE:352:LYS:HD2	1:IF:177:ASP:O	2.17	0.44
2:IG:185:TYR:CZ	2:IG:398:MET:HB3	2.53	0.44
2:II:142:GLY:HA2	2:II:183:GLU:HG3	1.99	0.44
2:IK:185:TYR:HE2	2:IK:404:PHE:HB2	1.83	0.44
2:IM:223:SER:O	2:IM:227:VAL:HG23	2.17	0.44
2:J:156:ARG:HA	2:J:159:VAL:HG12	1.98	0.44
2:J:296:PHE:HE2	2:J:317:LEU:HD11	1.82	0.44
2:JB:217:LEU:HD21	2:JB:275:VAL:HG22	1.99	0.44
1:JC:244:GLY:HA2	1:JC:355:ASP:HB2	2.00	0.44
1:JC:327:ASP:OD2	1:JC:328:GLU:N	2.51	0.44
2:JD:105:ARG:HD2	2:JD:411:GLU:CD	2.42	0.44
2:JF:191:THR:O	2:JF:195:LEU:HD23	2.17	0.44
1:JG:190:HIS:HA	1:JG:193:VAL:HG12	1.99	0.44
1:JK:167:PHE:CZ	1:JK:233:MET:HG2	2.52	0.44
1:JK:276:ARG:NH1	1:JK:279:GLN:OE1	2.49	0.44
2:JL:264:ARG:HH12	60:3t:33:TYR:HB2	1.81	0.44
2:JL:392:ASP:OD1	2:JL:393:HIS:N	2.51	0.44
1:JM:2:ARG:NH2	2:JN:71:GLU:HG2	2.29	0.44
1:KE:131:GLN:HE22	1:KE:250:LEU:HB2	1.83	0.44
2:KF:6:CYS:O	2:KF:65:CYS:HA	2.17	0.44
2:KF:52:PHE:HZ	2:KF:239:THR:HG21	1.82	0.44
1:KG:19:LYS:HG2	1:KG:226:ASN:C	2.43	0.44
1:KG:22:GLU:HG2	1:KG:81:TYR:CE1	2.52	0.44
1:KG:319:GLY:O	1:KG:321:MET:HG2	2.17	0.44
2:KH:56:THR:O	2:KH:58:ALA:N	2.50	0.44
2:KJ:313:MET:HE2	2:KJ:382:THR:HG22	1.98	0.44
1:KK:245:GLN:NE2	2:KL:224:TYR:HB2	2.32	0.44
2:KL:395:PHE:CD2	2:KL:422:ARG:HD3	2.52	0.44
1:KM:72:THR:O	1:KM:75:SER:OG	2.32	0.44
1:KM:301:GLN:OE1	1:KM:302:ALA:N	2.43	0.44
2:L:315:CYS:HB3	2:L:377:MET:SD	2.57	0.44
1:LA:130:LEU:HB3	1:LA:162:ARG:NH1	2.32	0.44
2:LB:246:GLY:HA3	2:LB:356:ASN:HA	1.98	0.44
1:LE:167:PHE:CZ	1:LE:233:MET:HG2	2.52	0.44
1:LE:170:ILE:HG13	1:LE:201:CYS:HB3	1.99	0.44
2:LH:231:ILE:O	2:LH:234:VAL:HG12	2.17	0.44
2:LH:398:MET:HE3	2:LH:398:MET:HB3	1.84	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LJ:111:GLY:HA2	2:LJ:149:LEU:HD13	1.99	0.44
1:LK:302:ALA:HA	35:2O:114:ARG:HH12	1.82	0.44
2:LN:46:ASP:OD1	2:LN:46:ASP:N	2.50	0.44
2:LN:430:LYS:HG2	22:1y:142:THR:HA	1.99	0.44
1:LO:4:ILE:HD11	1:LO:240:LEU:HD12	1.99	0.44
2:MA:364:PRO:HA	45:2y:159:PHE:CE1	2.53	0.44
2:MA:419:SER:O	2:MA:423:GLU:OE1	2.35	0.44
1:MB:221:THR:HG23	1:MB:223:GLY:H	1.82	0.44
2:MC:393:HIS:CE1	2:MC:397:LEU:HD12	2.49	0.44
1:MD:386:THR:HG22	1:MD:412:GLU:OE2	2.17	0.44
1:MH:189:VAL:HG21	1:MH:415:MET:HE3	2.00	0.44
1:MH:308:GLY:HA3	1:MH:373:CYS:HB3	1.99	0.44
2:MK:28:HIS:NE2	2:MK:243:ARG:HD2	2.32	0.44
1:MN:178:THR:O	1:MN:181:GLU:HG3	2.16	0.44
1:MN:299:MET:HE1	1:MN:367:PHE:HD2	1.82	0.44
1:MN:379:ARG:HB2	1:MN:419:VAL:HG21	1.98	0.44
2:NA:316:CYS:HA	2:NA:352:LYS:HB2	1.99	0.44
2:NC:201:ALA:O	2:NC:268:VAL:HG22	2.17	0.44
2:NC:250:VAL:HG11	2:NC:318:MET:HE1	1.98	0.44
2:NE:194:LEU:O	2:NE:198:THR:HB	2.18	0.44
1:NH:324:LYS:HZ3	2:NI:222:PRO:C	2.24	0.44
2:NI:242:LEU:HD12	2:NI:243:ARG:HG3	1.98	0.44
2:NK:392:ASP:CG	2:NK:425:LEU:HD22	2.42	0.44
1:NL:175:VAL:O	1:NL:175:VAL:HG12	2.18	0.44
1:NL:413:SER:O	1:NL:417:ASP:HB2	2.17	0.44
2:OA:9:ILE:HG22	2:OA:68:LEU:HB2	1.97	0.44
2:OA:65:CYS:O	2:OA:91:GLN:HG3	2.18	0.44
2:OA:261:PRO:HG3	2:OA:313:MET:SD	2.57	0.44
2:OA:311:LYS:HD3	2:OA:344:VAL:HA	1.98	0.44
2:OA:402:ARG:NH2	2:OA:415:GLU:OE1	2.50	0.44
1:OB:301:GLN:HE22	1:OB:377:MET:HG2	1.82	0.44
1:OD:86:ARG:HG3	1:PD:281:TYR:HB3	2.00	0.44
1:OD:379:ARG:O	1:OD:383:GLU:HG3	2.17	0.44
1:OF:301:GLN:CD	1:OF:377:MET:HE2	2.43	0.44
1:OF:360:GLY:HA2	28:1h:35:VAL:HG21	1.99	0.44
2:OG:103:TYR:HD1	2:OG:413:MET:HE1	1.82	0.44
1:OJ:295:ASP:OD2	1:OJ:297:LYS:NZ	2.38	0.44
2:OM:192:HIS:CE1	2:OM:421:ALA:HA	2.52	0.44
2:OM:271:SER:N	2:OM:377:MET:HB3	2.33	0.44
1:P:253:LEU:HD11	1:P:368:ILE:HG13	2.00	0.44
2:PA:182:VAL:HG13	2:PA:185:TYR:HD2	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PB:186:THR:HG21	1:PB:385:PHE:CG	2.52	0.44
2:PC:167:LEU:HD13	2:PC:252:LEU:HD12	1.98	0.44
1:PF:345:ILE:HD11	2:PG:404:PHE:HE2	1.82	0.44
2:PG:324:VAL:HG13	2:PG:327:ASP:H	1.81	0.44
1:PH:246:LEU:HA	2:PI:11:GLN:NE2	2.33	0.44
2:PI:254:GLU:CD	1:PJ:99:ASN:HB2	2.42	0.44
2:PK:72:PRO:HB2	2:PK:76:ASP:OD2	2.18	0.44
1:PL:26:ASP:O	1:PL:359:LYS:HE2	2.17	0.44
1:PL:171:PRO:HD2	1:PL:181:GLU:CD	2.41	0.44
1:PL:344:TRP:CD1	1:PL:345:ILE:HG13	2.52	0.44
2:Q:269:LEU:HD13	2:Q:301:MET:HE3	2.00	0.44
2:QB:53:PHE:HB3	2:QB:61:HIS:HB3	1.99	0.44
2:QB:332:ILE:O	2:QB:336:LYS:HG2	2.17	0.44
1:QC:364:SER:OG	1:QC:365:VAL:N	2.48	0.44
2:QD:111:GLY:HA2	2:QD:114:ILE:HG22	1.98	0.44
2:QD:319:TYR:HB3	2:QD:323:VAL:HG11	1.98	0.44
2:QF:142:GLY:CA	2:QF:183:GLU:HG3	2.46	0.44
2:QJ:217:LEU:HD13	2:QJ:367:ASP:OD2	2.18	0.44
2:QJ:308:ARG:HD3	59:4b:50:LEU:HA	1.98	0.44
1:QK:99:ASN:HA	1:QK:142:GLY:HA3	2.00	0.44
2:RD:88:ASN:OD1	2:RD:89:PRO:HD2	2.16	0.44
1:RE:189:VAL:HG21	1:RE:415:MET:SD	2.57	0.44
1:RG:21:TRP:CH2	1:RG:50:TYR:HB3	2.52	0.44
2:RH:47:ASP:N	2:RH:47:ASP:OD1	2.50	0.44
2:RH:69:ASP:OD1	2:RH:71:GLU:HG3	2.18	0.44
2:RH:91:GLN:HG2	2:RH:121:ARG:HD3	1.99	0.44
1:RI:128:ASP:OD1	1:RI:128:ASP:N	2.48	0.44
1:RI:359:LYS:HD2	28:1Y:106:LEU:O	2.17	0.44
2:RJ:422:ARG:HA	2:RJ:422:ARG:HD2	1.79	0.44
2:RL:5:ILE:HD13	2:RL:64:ARG:HB3	1.99	0.44
2:RL:297:GLU:HG2	2:RL:298:PRO:HD2	1.99	0.44
2:RL:338:LYS:NZ	2:RL:341:ILE:HD13	2.32	0.44
2:SC:139:HIS:O	2:SC:170:THR:HA	2.17	0.44
2:SC:384:ILE:O	2:SC:387:VAL:HG22	2.17	0.44
1:SD:210:ILE:HG23	1:SD:214:THR:OG1	2.17	0.44
2:SE:136:MET:HE1	2:SE:235:VAL:HG13	1.99	0.44
2:SE:138:PHE:HE1	2:SE:235:VAL:HG21	1.82	0.44
2:SE:339:ARG:CG	59:3p:118:GLU:HA	2.45	0.44
2:SG:2:ARG:HB3	2:SG:242:LEU:HD13	2.00	0.44
1:SJ:268:MET:HB2	1:SJ:300:MET:CG	2.48	0.44
2:TC:202:THR:HG22	2:TC:204:LEU:HG	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:TE:277:SER:H	2:TE:280:LYS:HZ3	1.65	0.44
1:TF:21:TRP:CZ3	1:TF:61:PRO:HB3	2.52	0.44
1:TH:105:HIS:CD2	1:TH:150:LEU:HB2	2.52	0.44
1:TH:206:ALA:HB2	1:TH:302:ALA:HB2	1.99	0.44
1:TH:252:LYS:O	1:TH:256:ASN:ND2	2.45	0.44
2:TI:31:GLN:HG2	2:TI:37:PRO:HD3	1.99	0.44
1:TJ:273:LEU:H	1:TJ:292:GLN:NE2	2.15	0.44
1:U:66:MET:SD	1:U:151:LEU:HD11	2.58	0.44
1:U:346:PRO:HD2	2:UA:398:MET:SD	2.57	0.44
2:UA:264:ARG:NH1	2:UA:264:ARG:HB3	2.32	0.44
1:UB:232:VAL:HG11	1:UB:268:MET:HG2	1.99	0.44
2:UC:228:ASN:OD1	71:UC:501:GTP:N1	2.47	0.44
2:UC:312:TYR:HB2	2:UC:343:PHE:CD1	2.51	0.44
1:UF:189:VAL:HG21	1:UF:415:MET:SD	2.57	0.44
1:UF:247:ASN:H	2:UG:11:GLN:NE2	2.12	0.44
1:V:233:MET:O	1:V:236:VAL:HG12	2.17	0.44
2:VC:53:PHE:HE2	2:VC:86:LEU:HD11	1.81	0.44
2:VC:111:GLY:HA2	2:VC:114:ILE:HG22	2.00	0.44
2:VE:369:ALA:HA	8:0G:364:GLN:OE1	2.17	0.44
2:VG:174:SER:HB2	2:VG:177:VAL:O	2.17	0.44
2:VG:390:ARG:O	2:VG:394:LYS:HG3	2.17	0.44
2:VK:139:HIS:O	2:VK:170:THR:HA	2.16	0.44
2:VM:315:CYS:HB2	2:VM:351:PHE:CD1	2.50	0.44
2:WA:115:VAL:HG21	2:WA:156:ARG:HG3	1.99	0.44
1:WB:268:MET:HE1	1:WB:368:ILE:HG23	1.99	0.44
1:WB:323:THR:HA	1:WB:326:VAL:HG22	1.98	0.44
2:WC:71:GLU:HB3	2:WC:98:ASP:HB2	1.99	0.44
1:WD:124:ALA:HB1	1:WD:130:LEU:HD22	2.00	0.44
2:WE:164:LYS:HD3	2:WE:164:LYS:HA	1.73	0.44
2:WE:384:ILE:O	2:WE:387:VAL:HG22	2.17	0.44
2:WG:264:ARG:HG3	2:WG:264:ARG:HH11	1.82	0.44
1:WH:125:GLU:OE2	3:XD:45:SER:N	2.47	0.44
2:WI:309:HIS:HB3	2:WI:386:GLU:OE2	2.17	0.44
1:WJ:267:MET:HE2	1:WJ:371:ASN:HB2	2.00	0.44
5:XN:6:THR:HB	5:XN:9:GLN:HB3	1.97	0.44
4:XO:153:LEU:HD22	4:XO:158:TYR:CE2	2.52	0.44
4:XO:165:GLY:O	4:XO:168:GLU:HG2	2.17	0.44
4:XQ:219:LEU:HD21	4:XQ:247:LEU:HD22	1.98	0.44
8:0G:210:VAL:O	8:0G:214:GLU:HG2	2.17	0.44
9:0M:296:ASN:OD1	9:0M:311:GLY:N	2.38	0.44
9:0N:146:CYS:HB3	9:0N:188:MET:HG3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:0N:214:ILE:O	9:0N:225:CYS:HA	2.18	0.44
9:0O:16:LEU:HA	9:0O:320:LEU:HD11	1.98	0.44
9:0O:122:TYR:OH	9:0O:181:VAL:HG11	2.17	0.44
10:0R:146:LYS:O	10:0R:150:VAL:HG23	2.17	0.44
10:0R:210:VAL:HG21	38:2U:336:ARG:HB2	1.99	0.44
14:0c:299:GLU:O	14:0c:303:GLU:HG2	2.17	0.44
14:0c:332:VAL:O	14:0c:336:LYS:HG2	2.17	0.44
15:0f:132:ARG:O	15:0f:135:MET:HG2	2.17	0.44
19:0r:75:ASN:OD1	19:0r:75:ASN:N	2.50	0.44
23:1B:260:LEU:HD11	45:2z:125:GLY:HA3	1.98	0.44
23:1E:206:ALA:HB2	45:2y:429:ARG:HH21	1.81	0.44
24:1H:647:ARG:NH1	24:1H:647:ARG:O	2.50	0.44
24:1J:533:ARG:O	24:1J:536:GLN:HG3	2.17	0.44
24:1K:274:LEU:C	24:1K:290:LYS:HZ3	2.25	0.44
25:1O:116:SER:HA	25:1O:122:LYS:HA	1.99	0.44
26:1Q:445:LEU:HB2	26:1Q:460:LEU:HD11	2.00	0.44
28:1g:254:LEU:HD12	28:1h:19:VAL:CG2	2.46	0.44
22:1w:231:ILE:HG12	22:1w:273:ARG:NH1	2.32	0.44
33:2H:1:MET:HE3	33:2H:95:PHE:HD1	1.81	0.44
41:2e:162:GLU:O	41:2e:166:LYS:HG2	2.17	0.44
41:2e:162:GLU:HB3	41:2e:163:PRO:HD3	1.98	0.44
41:2k:171:GLU:O	41:2k:175:ILE:HG12	2.17	0.44
41:2l:231:SER:O	41:2l:235:LEU:HD23	2.17	0.44
44:2v:131:ARG:HH12	44:2v:225:ARG:CD	2.25	0.44
44:2w:394:VAL:O	44:2w:398:ILE:HG12	2.18	0.44
48:3H:72:PRO:HG2	48:3H:75:GLN:HB2	2.00	0.44
49:3Q:328:ARG:NH2	49:3Q:455:CYS:O	2.29	0.44
53:3W:308:ARG:HB3	53:3W:312:ARG:NH1	2.31	0.44
57:3h:99:MET:HB2	57:3h:104:ILE:HD11	1.98	0.44
64:5B:81:CYS:O	64:5B:85:ARG:HG2	2.16	0.44
65:5G:201:GLN:HA	65:5G:204:GLU:HB3	2.00	0.44
66:5K:19:ASP:OD1	66:5K:19:ASP:N	2.50	0.44
66:5L:255:ARG:HH21	66:5L:267:VAL:HA	1.81	0.44
1:AD:378:PHE:HA	1:AD:381:VAL:HG12	2.00	0.44
2:AE:101:ASN:HD21	2:AE:180:ALA:HB1	1.82	0.44
2:AE:169:TYR:HA	2:AE:202:THR:HB	1.97	0.44
1:AF:25:SER:HB3	1:AF:30:VAL:HB	1.98	0.44
2:AG:271:SER:HA	2:AG:302:LEU:HD23	1.99	0.44
1:AJ:316:LEU:HB2	1:AJ:366:THR:OG1	2.17	0.44
2:AK:439:SER:HB3	1:AL:391:ARG:HH21	1.82	0.44
1:AN:389:PHE:O	1:AN:392:LYS:HD3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:76:VAL:O	1:B:82:GLY:HA3	2.18	0.44
1:B:113:ILE:O	1:B:117:LEU:HD23	2.17	0.44
1:B:385:PHE:CE2	1:B:412:GLU:HB2	2.52	0.44
2:BA:274:PRO:HG2	2:BA:371:VAL:HG21	1.99	0.44
2:BC:62:VAL:HA	2:CB:282:TYR:OH	2.17	0.44
1:BD:163:ILE:HG13	1:BD:250:LEU:HB3	1.99	0.44
2:BE:102:ASN:ND2	2:BE:411:GLU:HG3	2.32	0.44
1:BF:350:LYS:HD2	1:BF:351:SER:N	2.33	0.44
2:BG:151:ALA:O	2:BG:155:GLU:HG2	2.16	0.44
2:BG:364:PRO:HB3	16:0k:59:PRO:HG3	1.98	0.44
1:BH:311:LEU:HA	1:BH:342:ILE:HG13	1.99	0.44
2:BI:45:GLU:OE2	24:1I:238:SER:OG	2.27	0.44
2:BI:96:LYS:HA	2:BI:96:LYS:HD2	1.73	0.44
1:BJ:316:LEU:HB2	1:BJ:366:THR:CG2	2.46	0.44
2:BK:301:MET:HG3	2:BK:303:THR:H	1.82	0.44
2:BM:275:VAL:O	2:BM:275:VAL:HG13	2.16	0.44
1:BN:299:MET:HE1	1:BN:367:PHE:CD2	2.53	0.44
2:C:320:ARG:O	2:C:373:ARG:HA	2.17	0.44
1:CA:172:SER:HB3	1:CA:205:GLU:CD	2.43	0.44
2:CB:139:HIS:O	2:CB:170:THR:HA	2.18	0.44
1:CC:145:SER:HB2	1:CC:188:SER:OG	2.17	0.44
1:CE:267:MET:O	1:CE:268:MET:HE2	2.17	0.44
1:CG:61:PRO:HD3	1:CG:84:LEU:HG	1.99	0.44
2:CH:174:SER:HB2	2:CH:207:GLU:OE1	2.17	0.44
1:CI:322:SER:HB2	2:CJ:221:ARG:HB3	1.98	0.44
2:CJ:46:ASP:OD1	2:CJ:47:ASP:N	2.51	0.44
1:CK:171:PRO:HB2	1:CK:181:GLU:OE2	2.17	0.44
2:D:381:SER:O	2:D:384:ILE:HG22	2.17	0.44
1:DC:150:LEU:O	1:DC:154:LYS:HG2	2.17	0.44
1:DE:100:ASN:HB3	1:DE:103:LYS:HG2	1.99	0.44
2:DF:21:TRP:CZ2	2:DF:65:CYS:HB3	2.52	0.44
2:DH:47:ASP:N	2:DH:47:ASP:OD1	2.48	0.44
1:DI:21:TRP:CZ3	1:DI:50:TYR:HB3	2.53	0.44
1:DI:267:MET:CE	1:DI:371:ASN:HB3	2.47	0.44
2:DL:11:GLN:O	2:DL:15:GLN:HG3	2.17	0.44
1:DM:377:MET:HA	1:DM:380:ARG:HE	1.81	0.44
1:EB:20:PHE:HA	1:EB:230:ALA:HB1	1.99	0.44
2:EC:33:ASP:OD1	26:1Q:612:SER:HB3	2.17	0.44
2:EE:70:LEU:HD21	2:EE:114:ILE:HG21	1.99	0.44
2:EE:234:VAL:HG13	2:EE:376:CYS:SG	2.57	0.44
1:EF:73:MET:HA	1:EF:73:MET:HE2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EH:218:THR:HG23	1:EH:219:THR:N	2.33	0.44
1:EJ:217:LEU:HD11	1:EJ:220:PRO:HB3	1.99	0.44
1:EJ:350:LYS:NZ	1:EJ:352:SER:OG	2.48	0.44
1:FB:314:SER:OG	1:FB:368:ILE:HB	2.17	0.44
1:FD:91:ILE:HD13	1:FD:116:VAL:HA	1.98	0.44
1:FD:163:ILE:HA	1:FD:197:ASP:OD2	2.18	0.44
1:FD:362:LYS:NZ	1:FD:363:MET:HE3	2.32	0.44
2:FE:105:ARG:HA	2:FE:109:THR:HG22	1.99	0.44
2:FE:291:ILE:O	2:FE:295:VAL:HG23	2.18	0.44
1:FF:322:SER:OG	1:FF:325:GLU:OE1	2.35	0.44
1:FH:271:ALA:HB3	1:FH:365:VAL:HG12	1.99	0.44
2:FK:3:GLU:O	2:FK:133:GLN:N	2.36	0.44
2:FK:103:TYR:H	2:FK:408:TYR:HE1	1.66	0.44
2:GC:435:VAL:HA	1:GD:391:ARG:HH22	1.79	0.44
1:GD:77:ARG:NE	1:GD:77:ARG:HA	2.33	0.44
1:GD:101:TRP:HB3	1:GD:398:TYR:CE2	2.53	0.44
1:GF:165:MET:HE3	1:GF:250:LEU:HD22	2.00	0.44
2:GG:195:LEU:HD21	2:GG:264:ARG:HE	1.82	0.44
1:GH:20:PHE:O	1:GH:23:VAL:HG12	2.17	0.44
1:GJ:3:GLU:OE2	1:GJ:129:CYS:N	2.50	0.44
1:GJ:27:GLU:OE2	1:GJ:318:ARG:NH2	2.50	0.44
1:GJ:276:ARG:HE	1:GJ:276:ARG:HB3	1.47	0.44
2:HA:127:ASP:OD1	2:HA:128:ASN:N	2.50	0.44
2:HC:219:ILE:HG23	38:2U:279:GLU:H	1.82	0.44
2:HE:93:VAL:HG11	2:HE:117:LEU:HD11	1.97	0.44
2:HE:136:MET:SD	2:HE:167:LEU:HD12	2.57	0.44
2:HE:229:ARG:HD3	2:HE:363:VAL:HG21	2.00	0.44
1:HF:324:LYS:HZ1	2:HG:222:PRO:HB2	1.81	0.44
2:HG:156:ARG:HA	2:HG:159:VAL:HG12	1.99	0.44
2:HG:275:VAL:O	2:HG:275:VAL:HG23	2.17	0.44
1:HJ:260:PHE:HB2	1:HJ:263:LEU:HG	1.99	0.44
2:HK:227:VAL:O	2:HK:231:ILE:HG12	2.17	0.44
2:HK:291:ILE:HD13	2:HK:373:ARG:HG3	1.98	0.44
2:IA:174:SER:HB2	2:IA:207:GLU:CD	2.42	0.44
2:IA:251:ASP:OD1	2:IA:254:GLU:HG2	2.17	0.44
1:IB:294:PHE:CE2	1:IB:330:MET:HE1	2.52	0.44
1:ID:25:SER:HB2	1:ID:81:TYR:HE2	1.82	0.44
1:ID:86:ARG:HG2	1:ID:88:ASP:H	1.82	0.44
2:IE:175:PRO:HA	2:IE:390:ARG:NE	2.32	0.44
2:IG:244:PHE:HB2	2:IG:356:ASN:HD21	1.82	0.44
2:II:212:LEU:HD21	2:II:275:VAL:CG1	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IJ:58:ARG:HH21	2:JJ:282:TYR:HB2	1.82	0.44
2:IK:316:CYS:HA	2:IK:352:LYS:HB2	1.98	0.44
2:IM:68:LEU:CD2	2:IM:149:LEU:HD21	2.46	0.44
2:J:71:GLU:CD	2:J:72:PRO:HD2	2.41	0.44
2:J:89:PRO:HG3	2:K:279:GLU:HG3	1.98	0.44
2:J:98:ASP:O	2:J:105:ARG:NH1	2.50	0.44
1:JA:102:ALA:HB2	1:JA:403:MET:HG3	1.98	0.44
1:JC:213:ARG:HG3	1:JC:213:ARG:NH1	2.31	0.44
1:JE:247:ASN:ND2	2:JF:73:THR:OG1	2.51	0.44
1:JE:255:VAL:HG11	2:JF:100:ALA:O	2.17	0.44
1:JG:101:TRP:CE3	1:JG:403:MET:HE1	2.53	0.44
1:JI:268:MET:O	1:JI:300:MET:HG2	2.17	0.44
2:JJ:169:TYR:HD1	2:JJ:202:THR:HB	1.81	0.44
2:JJ:188:VAL:HG23	2:JJ:425:LEU:HD22	2.00	0.44
2:JJ:430:LYS:HB2	60:3s:124:PRO:HB3	1.99	0.44
1:JM:58:ARG:NH2	1:JM:83:GLN:O	2.51	0.44
1:JM:130:LEU:H	1:JM:130:LEU:HD23	1.82	0.44
2:JN:166:LYS:N	2:JN:199:ASP:OD2	2.50	0.44
2:K:288:VAL:HG22	2:K:373:ARG:HD3	2.00	0.44
1:KA:10:GLY:HA2	1:KA:143:THR:HG23	1.99	0.44
1:KA:156:ARG:HH22	1:KA:197:ASP:CG	2.26	0.44
1:KA:323:THR:HA	1:KA:326:VAL:HG12	2.00	0.44
2:KD:164:LYS:HA	2:KD:164:LYS:HD3	1.76	0.44
2:KF:364:PRO:HD2	45:2y:357:ARG:HH22	1.82	0.44
2:KH:116:ASP:OD1	2:KH:117:LEU:N	2.50	0.44
2:KJ:319:TYR:CD1	2:KJ:323:VAL:HG11	2.52	0.44
2:KN:174:SER:HB3	2:KN:207:GLU:CD	2.42	0.44
1:LA:6:SER:O	1:LA:63:ALA:HA	2.18	0.44
1:LC:60:VAL:HG11	1:LC:86:ARG:HG3	2.00	0.44
1:LE:97:ALA:HB2	1:LE:143:THR:HB	1.99	0.44
2:LF:195:LEU:HD11	2:LF:264:ARG:HE	1.81	0.44
2:LJ:338:LYS:HD2	2:LJ:341:ILE:HD12	2.00	0.44
1:LM:65:LEU:HD13	1:LM:90:PHE:CE1	2.52	0.44
1:LM:249:ASP:OD1	1:LM:252:LYS:HB2	2.17	0.44
1:LM:291:GLN:OE1	1:LM:291:GLN:HA	2.17	0.44
2:LN:1:MET:HG3	2:LN:131:GLY:HA3	1.98	0.44
1:LO:67:ASP:HB3	1:LO:73:MET:HE2	1.99	0.44
1:MB:356:ILE:HD12	45:2y:198:PHE:HA	1.98	0.44
2:MC:311:LYS:HB3	2:MC:344:VAL:HB	1.99	0.44
2:ME:370:LYS:NZ	40:2Z:9:ILE:HG23	2.32	0.44
2:ME:396:ASP:HB3	13:0Y:178:TYR:OH	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MH:211:CYS:HA	1:MH:215:LEU:HB2	1.99	0.44
2:MI:269:LEU:HD22	2:MI:384:ILE:HD11	1.98	0.44
2:MK:105:ARG:HB2	2:MK:411:GLU:HG3	1.99	0.44
2:MK:177:VAL:HG11	2:MK:210:TYR:HE2	1.81	0.44
1:N:215:LEU:HB3	1:N:217:LEU:HD23	1.98	0.44
2:NA:384:ILE:O	2:NA:387:VAL:HG22	2.18	0.44
1:NB:68:LEU:HD12	1:NB:97:ALA:HB2	2.00	0.44
1:NB:350:LYS:HG3	2:NC:179:THR:O	2.17	0.44
2:NG:188:VAL:HG23	2:NG:425:LEU:HD12	1.99	0.44
1:NH:234:SER:O	1:NH:241:ARG:NH2	2.44	0.44
2:NI:395:PHE:HE2	2:NI:422:ARG:HB2	1.82	0.44
2:NK:270:THR:HB	2:NK:302:LEU:HD23	2.00	0.44
1:NL:226:ASN:CG	69:NL:500:GDP:HN1	2.24	0.44
2:NM:215:ARG:NH1	2:NM:216:SER:OG	2.51	0.44
1:O:69:GLU:CD	1:O:71:GLY:H	2.26	0.44
1:O:344:TRP:CE3	1:O:345:ILE:HG12	2.52	0.44
2:OA:240:ALA:O	2:OA:356:ASN:ND2	2.50	0.44
1:OB:61:PRO:HD3	1:OB:84:LEU:HG	1.99	0.44
1:OB:242:PHE:HB2	1:OB:354:CYS:SG	2.58	0.44
2:OE:53:PHE:HE2	2:OE:86:LEU:HD11	1.82	0.44
2:OE:167:LEU:HD11	2:OE:252:LEU:HD12	1.99	0.44
2:OE:209:ILE:HG23	2:OE:230:LEU:HD23	1.99	0.44
1:OH:379:ARG:HG3	1:OH:379:ARG:HH11	1.82	0.44
2:OK:203:MET:HG3	2:OK:384:ILE:HD11	1.99	0.44
1:OL:299:MET:HG3	1:OL:301:GLN:OE1	2.17	0.44
1:OL:385:PHE:HZ	1:OL:408:PHE:HD2	1.65	0.44
1:P:22:GLU:HA	1:P:81:TYR:CD2	2.53	0.44
1:P:377:MET:O	1:P:380:ARG:HG2	2.18	0.44
2:PC:169:TYR:CE2	2:PC:235:VAL:HG22	2.52	0.44
1:PF:99:ASN:HD21	1:PF:178:THR:CG2	2.30	0.44
2:PG:70:LEU:HD21	2:PG:149:LEU:HD22	2.00	0.44
1:PH:131:GLN:O	1:PH:163:ILE:HG22	2.16	0.44
2:PK:205:ASP:OD1	2:PK:303:THR:HA	2.17	0.44
2:PK:417:GLU:HA	2:PK:420:GLU:HG2	1.99	0.44
1:PL:180:VAL:HG12	1:PL:184:ASN:ND2	2.32	0.44
2:PM:262:TYR:CG	57:3i:28:TYR:HE1	2.35	0.44
2:Q:3:GLU:HG3	2:Q:129:CYS:SG	2.57	0.44
2:QB:26:LEU:HD21	28:1b:50:LYS:HB2	1.99	0.44
2:QB:103:TYR:HB3	2:QB:408:TYR:HE2	1.82	0.44
2:QB:136:MET:HE1	2:QB:235:VAL:HG13	2.00	0.44
2:QB:274:PRO:HD2	2:QB:374:ALA:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QC:172:SER:HB2	1:QC:203:ASP:OD1	2.17	0.44
1:QC:374:ILE:HA	1:QC:377:MET:HG3	2.00	0.44
1:QE:5:VAL:HG12	1:QE:130:LEU:HD11	1.99	0.44
1:QE:131:GLN:HE22	1:QE:249:ASP:HB2	1.81	0.44
1:QG:28:HIS:NE2	1:QG:241:ARG:HD2	2.32	0.44
2:QH:357:TYR:CD2	28:1b:170:LYS:HG2	2.52	0.44
1:QI:36:TYR:CZ	1:QI:38:GLY:HA3	2.52	0.44
2:QJ:36:MET:SD	2:QJ:61:HIS:NE2	2.90	0.44
2:QJ:199:ASP:OD1	2:QJ:256:GLN:NE2	2.50	0.44
1:QK:133:PHE:CD2	1:QK:155:LEU:HD13	2.52	0.44
1:QK:186:THR:HA	1:QK:415:MET:HE2	1.99	0.44
2:QL:203:MET:O	2:QL:204:LEU:HD22	2.18	0.44
2:R:345:ASP:N	2:R:345:ASP:OD1	2.50	0.44
1:RA:173:PRO:HA	1:RA:176:SER:HB2	1.98	0.44
1:RA:359:LYS:NZ	28:1X:179:LEU:O	2.42	0.44
2:RB:112:LYS:HA	2:RB:115:VAL:HG12	2.00	0.44
2:RB:345:ASP:OD1	2:RB:346:TRP:N	2.50	0.44
1:RC:267:MET:HE2	1:RC:301:GLN:OE1	2.17	0.44
2:RD:62:VAL:HG21	2:SC:283:HIS:O	2.17	0.44
2:RD:174:SER:HB2	2:RD:207:GLU:CD	2.43	0.44
1:RE:139:LEU:HG	1:RE:168:SER:HB3	1.99	0.44
2:RF:217:LEU:HD21	2:RF:368:LEU:HD22	2.00	0.44
2:RF:240:ALA:HA	2:RF:243:ARG:HB2	1.97	0.44
1:RG:66:MET:HE3	1:RG:66:MET:HB2	1.64	0.44
2:RJ:36:MET:N	2:RJ:36:MET:SD	2.91	0.44
1:RK:232:VAL:HG23	1:RK:366:THR:HB	1.98	0.44
2:RL:212:LEU:HD21	2:RL:275:VAL:HG21	1.99	0.44
2:SA:349:THR:OG1	2:SA:350:GLY:N	2.50	0.44
1:SB:42:LEU:HD13	1:SB:356:ILE:HD11	1.99	0.44
1:SD:3:GLU:H	1:SD:131:GLN:H	1.64	0.44
1:SD:276:ARG:NE	41:2c:449:TYR:CD1	2.76	0.44
1:SD:364:SER:OG	1:SD:365:VAL:N	2.50	0.44
1:SD:381:VAL:HG13	1:SD:415:MET:HE1	1.98	0.44
2:SE:205:ASP:OD1	2:SE:205:ASP:N	2.49	0.44
1:SJ:323:THR:HG21	2:SK:224:TYR:CE1	2.52	0.44
2:TA:3:GLU:H	2:TA:132:LEU:HA	1.82	0.44
2:TA:139:HIS:O	2:TA:170:THR:HA	2.18	0.44
2:TC:20:CYS:SG	2:TC:232:GLY:HA2	2.58	0.44
2:TC:395:PHE:HD2	2:TC:422:ARG:HD3	1.81	0.44
2:TC:406:HIS:HA	2:TC:409:VAL:HG22	1.98	0.44
2:TG:139:HIS:O	2:TG:170:THR:HA	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TL:204:ASN:HA	1:TL:207:LEU:HB2	1.99	0.44
1:U:46:ARG:HB2	1:U:241:ARG:O	2.18	0.44
1:UB:200:MET:HE1	1:UB:236:VAL:HG21	2.00	0.44
1:UB:224:ASP:OD1	53:3W:200:PRO:HB3	2.17	0.44
1:UB:293:MET:CE	1:UB:367:PHE:HB2	2.48	0.44
1:UB:398:TYR:O	1:UB:403:MET:HB2	2.17	0.44
2:UC:275:VAL:O	2:UC:275:VAL:HG13	2.18	0.44
1:UD:10:GLY:HA2	1:UD:143:THR:HG23	2.00	0.44
2:UE:346:TRP:CD1	1:UF:391:ARG:HD3	2.53	0.44
2:UG:402:ARG:NH1	2:UG:402:ARG:HG3	2.31	0.44
1:UH:21:TRP:CZ2	1:UH:63:ALA:HB2	2.52	0.44
1:UL:162:ARG:HA	1:UL:162:ARG:HD3	1.77	0.44
1:UL:242:PHE:HB2	1:UL:354:CYS:SG	2.57	0.44
1:V:267:MET:O	1:V:268:MET:HE2	2.17	0.44
2:VA:312:TYR:HB2	2:VA:343:PHE:CD1	2.52	0.44
2:VA:396:ASP:CG	2:VA:422:ARG:HE	2.25	0.44
2:VC:11:GLN:N	71:VC:501:GTP:O2B	2.50	0.44
2:VC:115:VAL:O	2:VC:119:LEU:HD23	2.16	0.44
2:VC:390:ARG:O	2:VC:394:LYS:HG3	2.17	0.44
1:VD:275:SER:O	1:VD:279:GLN:HG3	2.18	0.44
1:VH:208:TYR:CE1	1:VH:225:LEU:HD11	2.52	0.44
2:VI:291:ILE:O	2:VI:295:VAL:HG23	2.17	0.44
1:VJ:263:LEU:HD22	1:VJ:422:TYR:CE1	2.51	0.44
2:VK:2:ARG:NH2	2:VK:251:ASP:OD2	2.43	0.44
2:WA:419:SER:O	2:WA:423:GLU:OE1	2.35	0.44
1:WB:245:GLN:O	2:WC:11:GLN:NE2	2.50	0.44
2:WC:69:ASP:OD2	2:WC:71:GLU:HG3	2.17	0.44
2:WC:70:LEU:HD12	2:WC:99:ALA:HB2	1.99	0.44
1:WH:169:VAL:HG22	1:WH:202:ILE:HB	1.98	0.44
1:WH:257:LEU:HB3	1:WH:266:PHE:CE1	2.52	0.44
1:WJ:209:ASP:O	1:WJ:213:ARG:HG2	2.18	0.44
1:WJ:322:SER:HB2	2:WK:222:PRO:O	2.18	0.44
1:WJ:388:MET:HE2	1:WJ:388:MET:HB3	1.82	0.44
1:WL:19:LYS:NZ	1:WL:227:HIS:HB2	2.31	0.44
2:WM:142:GLY:CA	2:WM:183:GLU:HG3	2.48	0.44
3:XB:47:LEU:HB3	3:XB:162:ILE:HB	1.99	0.44
5:XN:173:ASP:OD1	5:XN:176:ARG:NH1	2.45	0.44
8:0G:243:ASP:O	8:0G:247:ARG:HG3	2.17	0.44
8:0I:250:GLU:O	8:0I:254:ILE:HG12	2.17	0.44
9:0M:428:VAL:HG12	9:0M:439:THR:HG22	1.99	0.44
9:0N:12:LEU:HD21	9:0N:15:ALA:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:0N:76:VAL:HG13	9:0N:93:PHE:HD2	1.82	0.44
9:0N:231:ALA:HB1	9:0N:233:VAL:HG22	2.00	0.44
9:0N:329:ASP:HB3	9:0N:343:CYS:SG	2.58	0.44
13:0Z:128:ARG:NH2	51:X1:208:ARG:O	2.36	0.44
14:0d:242:PRO:HD2	14:0d:245:ILE:HG13	1.99	0.44
14:0d:275:ALA:HA	14:0d:278:ILE:O	2.17	0.44
16:0l:268:VAL:O	16:0l:271:GLN:HG3	2.17	0.44
17:0n:72:SER:O	17:0n:78:ARG:NH1	2.48	0.44
20:0u:67:VAL:O	20:0u:113:VAL:HG23	2.17	0.44
20:0u:200:GLU:OE1	23:1F:346:ARG:HD3	2.16	0.44
22:0z:242:ASP:OD2	22:0z:262:ILE:HG12	2.17	0.44
23:1B:378:ASP:O	23:1B:382:LYS:HG3	2.17	0.44
23:1E:325:GLU:OE1	29:1k:157:THR:OG1	2.34	0.44
24:1H:363:GLN:OE1	24:1H:363:GLN:HA	2.18	0.44
24:1J:642:ALA:HA	24:1J:645:LYS:HG2	1.99	0.44
24:1K:579:GLU:HA	24:1K:582:ILE:HG12	1.98	0.44
32:2B:212:PRO:HD2	32:2B:236:PRO:HD3	1.98	0.44
33:2F:244:THR:HG23	33:2F:278:VAL:HB	1.99	0.44
38:2U:265:ASP:HB3	38:2U:268:ARG:HB3	2.00	0.44
38:2V:131:GLY:C	38:2V:132:ARG:HD3	2.41	0.44
44:2w:211:LYS:HE3	44:2w:362:ILE:HG22	1.99	0.44
44:2w:374:PRO:O	44:2w:377:GLU:HB2	2.16	0.44
47:3D:183:SER:O	47:3D:186:THR:HG22	2.17	0.44
49:3P:410:GLN:HA	49:3P:410:GLN:NE2	2.32	0.44
49:3P:517:THR:HG22	49:3P:522:PRO:HA	1.99	0.44
56:3d:220:LYS:O	56:3d:223:THR:HG22	2.17	0.44
57:3f:67:SER:HA	57:3f:70:TYR:CE2	2.52	0.44
59:3o:288:ASP:OD1	59:3o:291:ARG:HB2	2.17	0.44
59:4O:177:ALA:HA	59:4O:180:LYS:HD2	1.99	0.44
59:4P:104:TYR:HA	59:4P:109:GLU:HG3	1.99	0.44
64:5B:198:ALA:O	65:5G:198:ARG:NH1	2.50	0.44
64:5C:146:VAL:HA	64:5C:149:ILE:HG22	2.00	0.44
66:5L:102:CYS:HB3	66:5L:137:PRO:HB2	1.98	0.44
1:A:20:PHE:HA	1:A:230:ALA:HB1	1.99	0.44
1:AB:97:ALA:HB2	1:AB:143:THR:HB	2.00	0.44
2:AC:155:GLU:HG2	2:AC:197:HIS:ND1	2.33	0.44
2:AC:346:TRP:CZ3	2:AC:347:CYS:HB2	2.53	0.44
2:AG:47:ASP:OD1	2:AG:47:ASP:N	2.51	0.44
2:AG:264:ARG:HH11	3:XC:115:LYS:HD3	1.83	0.44
2:AG:282:TYR:O	2:MG:60:LYS:HD2	2.17	0.44
2:AG:353:CYS:HB2	1:AH:177:ASP:HB2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AI:11:GLN:HG3	2:AI:15:GLN:HE22	1.81	0.44
2:AI:188:VAL:HG11	2:AI:395:PHE:CD1	2.52	0.44
2:AK:107:HIS:CD2	2:AK:152:LEU:HB2	2.52	0.44
1:AL:385:PHE:HE2	1:AL:412:GLU:HB3	1.82	0.44
1:AN:12:CYS:SG	1:AN:169:VAL:HG21	2.58	0.44
1:B:139:LEU:HD23	1:B:185:THR:HA	2.00	0.44
1:B:167:PHE:CD2	1:B:233:MET:HE2	2.53	0.44
2:BA:297:GLU:OE2	2:BA:338:LYS:NZ	2.41	0.44
2:BC:315:CYS:HB2	2:BC:351:PHE:HD2	1.81	0.44
1:BD:183:TYR:HE1	1:BD:394:PHE:HB2	1.81	0.44
2:BE:89:PRO:HA	16:0k:425:ARG:NH2	2.32	0.44
1:BJ:267:MET:HE1	1:BJ:373:CYS:SG	2.57	0.44
1:BJ:406:MET:O	1:BJ:409:THR:OG1	2.34	0.44
2:BK:413:MET:HG3	2:BK:417:GLU:HG3	1.99	0.44
1:BL:40:SER:HA	16:0l:275:LEU:HD13	1.99	0.44
2:CB:213:THR:HG22	2:CB:219:ILE:HB	1.99	0.44
1:CC:286:VAL:HG11	1:CC:325:GLU:HG3	1.99	0.44
2:CD:213:THR:HG23	2:CD:217:LEU:HG	1.99	0.44
2:CF:251:ASP:H	2:CF:254:GLU:CG	2.30	0.44
1:CG:145:SER:HB2	1:CG:188:SER:OG	2.17	0.44
2:CH:325:PRO:O	2:CH:329:ASN:ND2	2.51	0.44
1:CI:178:THR:HB	1:CI:181:GLU:HG2	1.99	0.44
1:CI:284:LEU:HB3	1:CI:362:LYS:HD3	2.00	0.44
2:CL:141:VAL:HB	2:CL:190:SER:OG	2.18	0.44
2:CL:422:ARG:HA	2:CL:422:ARG:HD2	1.87	0.44
1:DE:389:PHE:CZ	1:DE:405:GLU:HG3	2.52	0.44
2:DF:311:LYS:HB2	2:DF:311:LYS:NZ	2.32	0.44
2:DH:346:TRP:CE3	2:DH:347:CYS:HB2	2.52	0.44
2:DJ:21:TRP:CZ2	2:DJ:65:CYS:HB3	2.52	0.44
2:DJ:123:ARG:HG2	2:DJ:123:ARG:HH11	1.82	0.44
1:DM:235:GLY:HA3	1:DM:366:THR:HG21	1.99	0.44
1:DM:406:MET:O	1:DM:410:GLU:HG2	2.16	0.44
1:ED:313:ALA:HB3	1:ED:349:ILE:HG12	1.99	0.44
2:EE:225:THR:HG22	2:EE:229:ARG:HH21	1.82	0.44
2:EI:26:LEU:HD13	2:EI:363:VAL:HG12	1.99	0.44
1:F:2:ARG:NH1	2:FA:72:PRO:HD2	2.32	0.44
1:F:35:THR:HG23	1:F:37:GLN:OE1	2.17	0.44
1:F:113:ILE:HG12	1:F:154:LYS:NZ	2.32	0.44
2:FA:175:PRO:HG3	2:FA:390:ARG:HH21	1.82	0.44
2:FC:227:VAL:O	2:FC:231:ILE:HG12	2.17	0.44
2:FE:338:LYS:HZ3	63:4I:292:GLY:HA2	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FF:329:GLN:O	1:FF:333:VAL:HG13	2.18	0.44
2:FG:22:GLU:HG3	2:FG:83:TYR:OH	2.17	0.44
2:FI:28:HIS:CE1	2:FI:243:ARG:HD2	2.53	0.44
1:FJ:248:SER:HA	1:FJ:252:LYS:HG2	1.99	0.44
2:GC:2:ARG:HA	2:GC:133:GLN:HG3	1.99	0.44
2:GC:273:ALA:HB3	2:GC:295:VAL:HG23	1.98	0.44
1:GD:287:ALA:O	1:GD:291:GLN:HG2	2.18	0.44
2:GE:365:GLY:HA2	10:0R:164:ARG:HE	1.81	0.44
2:GI:362:VAL:HG13	2:GI:370:LYS:HB3	1.98	0.44
1:GJ:116:VAL:HG11	1:GJ:151:LEU:HD21	1.98	0.44
1:HB:332:ASN:O	1:HB:336:LYS:HB2	2.18	0.44
1:HD:55:SER:OG	7:0D:40:ASN:OD1	2.27	0.44
1:HF:229:VAL:O	1:HF:233:MET:HG3	2.18	0.44
1:HF:314:SER:HA	1:HF:350:LYS:O	2.18	0.44
2:HG:212:LEU:HD12	2:HG:215:ARG:NH1	2.33	0.44
1:HH:209:ASP:HA	1:HH:212:PHE:HD2	1.82	0.44
1:HH:215:LEU:HB3	1:HH:217:LEU:HG	1.99	0.44
2:HI:174:SER:HB2	2:HI:207:GLU:HG2	1.99	0.44
1:HJ:83:GLN:O	1:IJ:281:TYR:OH	2.19	0.44
2:HK:394:LYS:HE3	2:HK:394:LYS:HB3	1.68	0.44
2:HM:134:GLY:HA2	2:HM:164:LYS:HD2	2.00	0.44
2:HM:311:LYS:HE2	2:HM:311:LYS:HB2	1.80	0.44
2:HM:332:ILE:HG23	2:HM:351:PHE:CD1	2.53	0.44
2:IA:326:LYS:HZ1	1:IB:220:PRO:C	2.24	0.44
2:IA:408:TYR:HB3	2:IA:413:MET:HE3	1.98	0.44
1:IB:267:MET:C	1:IB:268:MET:HE2	2.42	0.44
2:IE:15:GLN:HB3	2:IE:228:ASN:ND2	2.32	0.44
2:IG:394:LYS:NZ	2:IG:398:MET:HE3	2.33	0.44
1:IJ:46:ARG:NH2	2:IK:76:ASP:OD2	2.45	0.44
2:IK:241:SER:O	2:IK:249:ASN:ND2	2.46	0.44
2:J:238:LEU:HA	2:J:318:MET:HE1	1.98	0.44
1:JG:32:PRO:HG3	1:JG:81:TYR:CD1	2.53	0.44
1:JI:187:LEU:HD11	1:JI:408:PHE:CE1	2.53	0.44
1:JK:236:VAL:HG13	1:JK:237:THR:HG23	2.00	0.44
1:JK:390:ARG:HA	60:3s:135:ARG:HG3	1.99	0.44
1:JM:420:SER:HA	1:JM:423:GLN:HG3	1.99	0.44
2:JN:133:GLN:HB3	2:JN:252:LEU:HD12	1.99	0.44
2:K:70:LEU:HD12	2:K:99:ALA:HB2	1.99	0.44
2:KB:104:ALA:HB2	2:KB:413:MET:SD	2.58	0.44
1:KE:111:GLU:CD	35:2N:208:ARG:HE	2.19	0.44
1:KE:344:TRP:CE3	2:KF:401:LYS:HD2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KE:364:SER:OG	1:KE:365:VAL:N	2.51	0.44
2:KF:105:ARG:NH1	2:KF:110:ILE:HG13	2.33	0.44
1:KI:424:GLN:HA	1:KI:427:ASP:OD1	2.18	0.44
1:KM:174:ARG:NH2	1:KM:205:GLU:OE1	2.40	0.44
2:KN:223:SER:OG	2:KN:224:TYR:N	2.50	0.44
1:LC:331:LEU:HD11	2:LD:176:GLN:HB3	1.99	0.44
2:LD:102:ASN:ND2	2:LD:105:ARG:HG3	2.33	0.44
1:LE:112:LEU:HD23	1:LE:147:MET:HE1	1.99	0.44
2:LF:329:ASN:HD22	1:LG:208:TYR:HE2	1.63	0.44
1:LG:284:LEU:HD23	1:LG:362:LYS:HB3	1.98	0.44
2:LH:77:GLU:OE1	45:2y:413:TYR:HB3	2.18	0.44
2:LJ:296:PHE:CD1	2:LJ:341:ILE:HD13	2.53	0.44
1:LK:267:MET:C	1:LK:268:MET:HE2	2.43	0.44
1:LK:312:THR:HG21	2:LL:404:PHE:HZ	1.82	0.44
2:LL:240:ALA:HA	2:LL:243:ARG:HB2	1.98	0.44
1:LM:324:LYS:HG2	1:LM:325:GLU:OE2	2.18	0.44
2:LN:3:GLU:HG3	2:LN:129:CYS:HB2	2.00	0.44
1:LO:6:SER:O	1:LO:63:ALA:HA	2.17	0.44
2:MA:317:LEU:HD21	2:MA:377:MET:HE3	1.98	0.44
1:MB:253:LEU:HD11	1:MB:316:LEU:HD21	1.98	0.44
1:MB:261:PRO:HA	4:XM:79:GLY:HA3	2.00	0.44
2:MC:21:TRP:HZ3	2:MC:52:PHE:HB3	1.81	0.44
1:MD:344:TRP:CG	2:ME:401:LYS:HG3	2.52	0.44
1:MH:238:CYS:SG	1:MH:239:CYS:N	2.90	0.44
1:MJ:332:ASN:HA	1:MJ:335:ASN:HB2	1.99	0.44
1:MJ:384:GLN:O	1:MJ:388:MET:HG3	2.18	0.44
1:ML:237:THR:OG1	1:ML:241:ARG:NH1	2.50	0.44
1:MN:66:MET:SD	1:MN:151:LEU:HD22	2.58	0.44
1:N:331:LEU:HD11	2:NA:176:GLN:HB3	2.00	0.44
1:N:343:GLU:O	1:N:346:PRO:HD3	2.18	0.44
2:NA:54:SER:HB3	2:NA:64:ARG:NH2	2.32	0.44
2:NC:383:ALA:O	2:NC:386:GLU:HG3	2.18	0.44
1:ND:113:ILE:HG12	1:ND:117:LEU:HD23	1.99	0.44
2:NE:392:ASP:HB2	2:NE:422:ARG:NH1	2.29	0.44
2:NG:195:LEU:HD12	2:NG:266:HIS:HE1	1.82	0.44
2:NG:258:ASN:ND2	2:NG:352:LYS:HD3	2.32	0.44
1:NH:342:ILE:HD11	1:NH:345:ILE:HD13	1.99	0.44
2:NI:139:HIS:O	2:NI:170:THR:HA	2.17	0.44
2:NM:274:PRO:HG3	2:NM:286:LEU:HD12	1.99	0.44
1:O:304:ASP:HB3	1:O:306:ARG:HH11	1.80	0.44
2:OA:191:THR:O	2:OA:195:LEU:HD23	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OA:320:ARG:HG2	2:OA:356:ASN:HB3	2.00	0.44
2:OC:270:THR:HG23	2:OC:302:LEU:HB2	2.00	0.44
2:OC:387:VAL:O	2:OC:391:ILE:HG12	2.16	0.44
1:OD:66:MET:SD	1:OD:151:LEU:HD22	2.57	0.44
2:OE:117:LEU:HD11	2:OE:121:ARG:NH2	2.32	0.44
2:OE:318:MET:O	2:OE:375:VAL:HA	2.17	0.44
2:OG:177:VAL:O	2:OG:177:VAL:HG13	2.18	0.44
1:OJ:293:MET:HE2	1:OJ:365:VAL:HG11	1.99	0.44
2:OK:173:PRO:HB3	2:OK:183:GLU:CD	2.42	0.44
1:OL:251:ARG:NE	2:OM:105:ARG:HH12	2.15	0.44
2:PC:247:ALA:O	1:PD:11:GLN:NE2	2.50	0.44
2:PC:254:GLU:HG2	1:PD:98:GLY:HA2	1.98	0.44
2:PC:328:VAL:HG21	2:PC:355:ILE:HD11	1.99	0.44
1:PD:8:GLN:HG2	1:PD:17:GLY:HA3	1.99	0.44
1:PD:212:PHE:HD2	1:PD:213:ARG:HG3	1.82	0.44
1:PD:260:PHE:HD2	1:PD:263:LEU:HD12	1.81	0.44
1:PD:324:LYS:HE3	2:PE:222:PRO:HD2	1.99	0.44
1:PD:375:GLN:OE1	1:PD:379:ARG:NH2	2.50	0.44
2:PE:184:PRO:HA	2:PE:391:ILE:HD11	1.99	0.44
1:PF:222:PHE:HD2	1:PF:225:LEU:HD23	1.82	0.44
2:PG:36:MET:HE2	2:PG:61:HIS:NE2	2.33	0.44
1:PH:301:GLN:OE1	1:PH:301:GLN:HA	2.18	0.44
1:PJ:200:MET:HE1	1:PJ:236:VAL:HG21	1.99	0.44
2:PK:263:PRO:HB2	57:3h:31:GLN:CD	2.41	0.44
2:PK:296:PHE:CD2	2:PK:335:ILE:HG13	2.52	0.44
2:Q:27:GLU:HB3	2:Q:361:THR:OG1	2.17	0.44
1:QA:139:LEU:HD23	1:QA:185:THR:HG23	2.00	0.44
1:QC:317:PHE:HB2	1:QC:353:ILE:HD13	1.99	0.44
1:QE:50:TYR:CE2	1:QE:241:ARG:HD3	2.52	0.44
2:QF:72:PRO:O	2:QF:76:ASP:HB2	2.18	0.44
1:QG:344:TRP:CE3	1:QG:345:ILE:HG23	2.52	0.44
2:QH:265:ILE:HG22	2:QH:380:ASN:ND2	2.32	0.44
2:QJ:155:GLU:HG2	2:QJ:197:HIS:CD2	2.52	0.44
2:R:123:ARG:HD2	2:R:123:ARG:HA	1.86	0.44
2:R:223:SER:N	2:R:226:ASN:OD1	2.44	0.44
2:RB:21:TRP:CZ2	2:RB:65:CYS:HB3	2.52	0.44
2:RB:75:VAL:HA	2:RB:78:VAL:HG12	1.99	0.44
1:RE:173:PRO:HA	1:RE:176:SER:HB2	1.99	0.44
1:RG:415:MET:HB3	1:RG:415:MET:HE3	1.69	0.44
2:RH:139:HIS:CE1	2:RH:170:THR:HG22	2.53	0.44
2:RJ:75:VAL:HG21	2:RJ:94:SER:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:RJ:123:ARG:NH1	2:SI:297:GLU:OE2	2.50	0.44
2:RJ:267:PHE:HD1	2:RJ:432:TYR:OH	1.99	0.44
1:S:28:HIS:HE2	1:S:241:ARG:HD2	1.82	0.44
2:SC:332:ILE:HD11	2:SC:353:CYS:SG	2.58	0.44
2:SE:119:LEU:HD11	2:SE:156:ARG:HG3	1.98	0.44
1:SJ:187:LEU:HD11	1:SJ:408:PHE:CE2	2.53	0.44
1:TB:186:THR:HG22	1:TB:411:ALA:HB1	2.00	0.44
1:TB:314:SER:OG	1:TB:368:ILE:HB	2.17	0.44
1:TD:180:VAL:HG13	1:TD:183:TYR:CD2	2.51	0.44
2:TG:21:TRP:CZ2	2:TG:65:CYS:HB3	2.53	0.44
2:TG:334:THR:O	2:TG:338:LYS:HG2	2.17	0.44
1:TH:22:GLU:HA	1:TH:81:TYR:HD2	1.83	0.44
1:TH:139:LEU:HG	1:TH:168:SER:HB2	1.99	0.44
1:TL:140:GLY:HA2	1:TL:181:GLU:OE2	2.17	0.44
1:UB:6:SER:O	1:UB:63:ALA:HA	2.18	0.44
1:UB:166:THR:HG21	1:UB:192:LEU:HD22	1.99	0.44
1:UD:3:GLU:H	1:UD:131:GLN:H	1.64	0.44
2:UG:223:SER:OG	2:UG:224:TYR:N	2.50	0.44
2:UI:213:THR:HG22	2:UI:219:ILE:HB	2.00	0.44
2:UI:297:GLU:HG2	2:UI:299:ALA:H	1.83	0.44
1:UJ:134:GLN:NE2	1:UJ:167:PHE:HE2	2.11	0.44
1:UJ:209:ASP:OD2	1:UJ:213:ARG:NH1	2.50	0.44
2:VA:155:GLU:OE2	2:VA:197:HIS:ND1	2.48	0.44
1:VB:66:MET:HE1	1:VB:151:LEU:HD22	1.98	0.44
2:VC:260:VAL:HB	1:VD:397:TRP:HZ2	1.83	0.44
2:VE:141:VAL:HB	2:VE:190:SER:OG	2.18	0.44
1:VF:144:GLY:N	69:VF:500:GDP:O2B	2.37	0.44
1:VF:385:PHE:CE2	1:VF:412:GLU:HB2	2.52	0.44
1:VH:139:LEU:HB2	1:VH:170:ILE:HG22	2.00	0.44
1:VJ:332:ASN:OD1	62:4B:356:PRO:HG2	2.18	0.44
2:VK:251:ASP:H	2:VK:254:GLU:HG3	1.82	0.44
1:VL:237:THR:HG22	1:VL:250:LEU:HD11	1.99	0.44
2:VM:207:GLU:HB2	2:VM:304:LYS:HG3	1.99	0.44
1:WB:78:ALA:HB1	9:0L:198:MET:HA	2.00	0.44
1:WB:139:LEU:HD13	1:WB:188:SER:HB2	1.98	0.44
1:WD:67:ASP:CG	1:WD:73:MET:HE2	2.43	0.44
2:WE:28:HIS:NE2	2:WE:243:ARG:HD2	2.32	0.44
2:WE:313:MET:HE3	2:WE:346:TRP:CH2	2.53	0.44
1:WF:66:MET:SD	1:WF:116:VAL:HG11	2.57	0.44
1:WF:232:VAL:HG22	1:WF:268:MET:HE3	2.00	0.44
2:WG:178:SER:OG	2:WG:183:GLU:OE1	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:WK:296:PHE:CZ	2:WK:335:ILE:HG12	2.53	0.44
2:WK:388:PHE:HD2	2:WK:432:TYR:HE2	1.65	0.44
1:WL:10:GLY:O	1:WL:14:ASN:ND2	2.49	0.44
3:XC:114:VAL:HG13	3:XC:144:TYR:HE2	1.82	0.44
4:XQ:125:ARG:HG3	4:XQ:125:ARG:NH1	2.32	0.44
9:0L:608:VAL:HG22	9:0L:618:ILE:HG13	1.99	0.44
9:0M:350:VAL:HG22	9:0M:360:LEU:HB3	1.99	0.44
12:0W:114:MET:HG2	12:0W:118:GLU:HG3	1.98	0.44
12:0W:203:GLU:HG3	12:0W:206:SER:HB2	1.99	0.44
16:0l:791:GLY:HA2	16:0l:803:ARG:HE	1.82	0.44
16:0k:327:ILE:HA	16:0k:347:VAL:O	2.17	0.44
18:0p:189:TYR:HB3	18:0p:217:GLU:OE2	2.17	0.44
20:0t:188:MET:HB3	20:0t:218:ASN:HD22	1.82	0.44
24:1H:126:ASP:OD1	24:1H:126:ASP:N	2.50	0.44
24:1J:476:LYS:HE3	24:1J:484:TYR:CD2	2.52	0.44
24:1J:644:GLU:HA	24:1J:647:ARG:HG3	1.99	0.44
24:1K:479:ARG:HD2	24:1K:481:ASP:CG	2.42	0.44
24:1K:546:LEU:HD12	24:1K:546:LEU:HA	1.84	0.44
25:1O:762:LYS:HE2	25:1O:762:LYS:HA	1.98	0.44
26:1Q:110:VAL:HG21	26:1Q:166:TYR:CD2	2.53	0.44
27:1T:719:GLU:HB3	27:1T:723:LYS:NZ	2.33	0.44
28:1Y:23:CYS:SG	28:1Y:28:HIS:HB2	2.57	0.44
28:1h:154:ARG:O	28:1h:158:GLU:OE1	2.36	0.44
30:1o:12:ILE:O	30:1o:14:PRO:HD3	2.17	0.44
22:1x:260:ARG:CD	41:2h:193:SER:O	2.63	0.44
33:2F:158:ALA:HB3	33:2F:161:GLU:OE1	2.18	0.44
33:2H:20:LEU:HD21	33:2H:50:ALA:HB1	1.99	0.44
33:2I:159:PRO:HB2	33:2I:240:LEU:HD22	1.99	0.44
36:2Q:122:PHE:HB2	36:2Q:123:PRO:HD2	1.99	0.44
41:2i:340:GLU:HA	41:2i:343:ARG:CD	2.48	0.44
44:2w:95:CYS:SG	44:2w:96:ASP:N	2.91	0.44
46:3B:415:PRO:HA	46:3B:418:VAL:HG12	1.98	0.44
54:3Z:379:ALA:O	54:3Z:383:MET:HG2	2.17	0.44
57:3f:164:PHE:HA	57:3f:168:VAL:HB	1.99	0.44
64:5B:202:ALA:HB2	65:5G:198:ARG:HH22	1.81	0.44
64:5C:90:VAL:HG22	65:5H:80:GLU:OE2	2.17	0.44
65:5H:106:HIS:O	65:5H:109:LYS:HB3	2.18	0.44
65:5H:221:GLU:HG3	65:5H:224:ARG:HH12	1.82	0.44
1:A:236:VAL:HG13	1:A:237:THR:HG23	1.98	0.44
2:AG:21:TRP:CZ2	2:AG:65:CYS:HB3	2.53	0.44
2:AG:311:LYS:HE2	2:AG:343:PHE:C	2.42	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:169:VAL:HA	1:AH:202:ILE:HB	1.98	0.44
1:AH:316:LEU:HB2	1:AH:366:THR:OG1	2.18	0.44
2:AI:156:ARG:HA	2:AI:159:VAL:HG12	2.00	0.44
1:AJ:36:TYR:OH	1:AJ:40:SER:O	2.35	0.44
1:AJ:51:PHE:HB3	1:AJ:59:TYR:HB3	1.99	0.44
2:AK:251:ASP:H	2:AK:254:GLU:HB3	1.81	0.44
2:AK:322:ASP:OD2	2:AK:373:ARG:NH2	2.49	0.44
1:AL:113:ILE:HD11	1:AL:151:LEU:HB2	2.00	0.44
2:AM:127:ASP:OD1	2:AM:128:ASN:N	2.48	0.44
2:AM:139:HIS:CE1	2:AM:170:THR:HG22	2.53	0.44
2:AM:247:ALA:HB3	2:AM:355:ILE:HB	2.00	0.44
1:B:116:VAL:HG11	1:B:151:LEU:HD11	1.99	0.44
1:BB:398:TYR:O	1:BB:403:MET:HB2	2.18	0.44
2:BC:142:GLY:HA2	2:BC:183:GLU:HG3	2.00	0.44
1:BD:21:TRP:CZ3	1:BD:50:TYR:HB3	2.52	0.44
1:BF:293:MET:HG3	1:BF:367:PHE:HB2	1.99	0.44
1:BH:31:ASP:OD1	1:BH:34:GLY:N	2.51	0.44
1:BH:68:LEU:HB3	1:BH:95:SER:O	2.18	0.44
1:BH:318:ARG:HH11	1:BH:318:ARG:HG2	1.82	0.44
1:BH:347:ASN:HD21	2:BI:178:SER:C	2.26	0.44
2:BI:138:PHE:CE1	2:BI:235:VAL:HG21	2.53	0.44
2:BK:174:SER:CB	2:BK:207:GLU:HG3	2.48	0.44
2:BK:326:LYS:HE2	1:BL:208:TYR:HE2	1.82	0.44
2:BK:358:GLN:OE1	2:BK:358:GLN:HA	2.18	0.44
2:BK:419:SER:O	2:BK:423:GLU:HG3	2.17	0.44
2:BM:326:LYS:HG3	1:BN:220:PRO:HD2	1.99	0.44
2:CB:90:GLU:OE1	2:CB:90:GLU:N	2.43	0.44
1:CC:83:GLN:O	1:DC:281:TYR:OH	2.27	0.44
1:CC:150:LEU:O	1:CC:154:LYS:HG3	2.17	0.44
1:CE:178:THR:HB	1:CE:181:GLU:OE2	2.17	0.44
1:CG:133:PHE:HB2	1:CG:164:MET:HE1	2.00	0.44
1:CG:414:ASN:HA	1:CG:417:ASP:OD2	2.17	0.44
2:CH:394:LYS:HE3	2:CH:398:MET:HE3	1.99	0.44
1:CI:103:LYS:NZ	1:CI:108:GLU:HG3	2.33	0.44
1:CK:133:PHE:CD2	1:CK:164:MET:HE1	2.52	0.44
2:CL:320:ARG:O	2:CL:373:ARG:HA	2.17	0.44
2:D:110:ILE:HG23	2:D:113:GLU:OE2	2.18	0.44
1:DA:99:ASN:HD21	1:DA:178:THR:CG2	2.31	0.44
1:DA:267:MET:HE2	1:DA:301:GLN:NE2	2.32	0.44
1:DC:257:LEU:HB3	1:DC:266:PHE:HE2	1.83	0.44
2:DD:119:LEU:HD11	2:DD:156:ARG:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DD:269:LEU:HD23	2:DD:379:ALA:O	2.18	0.44
1:DE:256:ASN:CG	1:DE:350:LYS:HD2	2.43	0.44
2:DF:174:SER:CB	2:DF:207:GLU:HG3	2.47	0.44
2:DL:338:LYS:HG3	2:DL:340:THR:HG22	1.98	0.44
1:E:167:PHE:CG	1:E:233:MET:HE1	2.53	0.44
1:EB:347:ASN:O	2:EC:181:VAL:HG12	2.17	0.44
2:EE:142:GLY:HA3	2:EE:183:GLU:HG3	1.98	0.44
1:EF:112:LEU:HD23	1:EF:116:VAL:HG23	1.99	0.44
2:EI:346:TRP:CE3	2:EI:347:CYS:HB2	2.52	0.44
2:EK:9:ILE:HG22	2:EK:146:GLY:HA2	1.98	0.44
1:EL:3:GLU:N	1:EL:3:GLU:OE1	2.51	0.44
2:FC:269:LEU:HD22	2:FC:303:THR:HG21	2.00	0.44
2:FC:388:PHE:HB3	2:FC:425:LEU:HD11	1.98	0.44
2:FC:416:GLY:O	2:FC:419:SER:OG	2.23	0.44
1:FD:186:THR:HG21	1:FD:385:PHE:CG	2.53	0.44
1:FF:372:THR:HG21	1:FF:426:GLN:HB2	2.00	0.44
1:FH:55:SER:H	1:GH:283:GLY:HA2	1.83	0.44
2:FI:388:PHE:HA	2:FI:391:ILE:HG22	1.99	0.44
1:FJ:10:GLY:HA2	1:FJ:143:THR:HG23	1.99	0.44
1:FJ:327:ASP:OD1	1:FJ:328:GLU:N	2.50	0.44
2:FK:49:PHE:CE1	2:FK:61:HIS:HD2	2.36	0.44
1:FL:66:MET:SD	1:FL:151:LEU:HD22	2.58	0.44
1:FL:86:ARG:HB3	1:FL:89:ASN:ND2	2.33	0.44
1:FL:242:PHE:HB2	1:FL:354:CYS:SG	2.58	0.44
1:G:102:ALA:H	1:G:398:TYR:HE2	1.66	0.44
1:GD:109:GLY:O	1:GD:113:ILE:HB	2.18	0.44
2:GE:22:GLU:HG2	2:GE:83:TYR:CE2	2.53	0.44
1:GF:165:MET:HB2	1:GF:165:MET:HE2	1.57	0.44
2:GI:53:PHE:HB3	2:GI:61:HIS:HB3	1.99	0.44
1:GL:267:MET:O	1:GL:268:MET:HE2	2.18	0.44
1:H:324:LYS:HE2	1:H:325:GLU:OE2	2.18	0.44
2:HA:70:LEU:HD12	2:HA:110:ILE:HG22	1.98	0.44
2:HA:399:TYR:O	2:HA:402:ARG:NH2	2.49	0.44
1:HB:99:ASN:HA	1:HB:142:GLY:HA3	1.99	0.44
1:HB:101:TRP:HE3	1:HB:403:MET:HE1	1.83	0.44
2:HC:90:GLU:HG2	2:HC:91:GLN:HG3	1.99	0.44
2:HC:217:LEU:HB3	2:HC:219:ILE:CD1	2.48	0.44
2:HC:388:PHE:HD2	2:HC:432:TYR:HE2	1.64	0.44
1:HD:330:MET:HE2	1:HD:349:ILE:HG23	2.00	0.44
2:HE:278:ALA:O	17:0n:313:LEU:HD21	2.17	0.44
2:HE:306:ASP:CG	2:HE:308:ARG:HE	2.26	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HI:167:LEU:HD22	2:HI:200:VAL:HB	2.00	0.44
1:HJ:173:PRO:HG2	1:HJ:384:GLN:NE2	2.31	0.44
1:HJ:325:GLU:O	1:HJ:329:GLN:NE2	2.50	0.44
2:HK:205:ASP:CG	2:HK:304:LYS:H	2.25	0.44
2:HM:209:ILE:HD12	2:HM:230:LEU:HD23	1.99	0.44
1:I:392:LYS:C	1:I:395:LEU:HD23	2.42	0.44
2:IA:99:ALA:HA	2:IA:105:ARG:HD3	1.98	0.44
2:IA:228:ASN:OD1	71:IA:501:GTP:N1	2.38	0.44
1:IB:403:MET:HE3	1:IB:408:PHE:HE2	1.82	0.44
1:ID:133:PHE:CD2	1:ID:155:LEU:HD23	2.53	0.44
1:ID:371:ASN:OD1	1:ID:372:THR:N	2.51	0.44
2:IE:315:CYS:HA	2:IE:379:ALA:HA	1.99	0.44
2:IE:395:PHE:HE2	2:IE:422:ARG:HB2	1.83	0.44
1:IF:145:SER:HB2	1:IF:188:SER:OG	2.18	0.44
2:IG:237:SER:HA	2:IG:320:ARG:HH11	1.83	0.44
2:IK:190:SER:O	2:IK:194:LEU:HD23	2.17	0.44
1:IL:227:HIS:ND1	7:0D:271:ARG:HA	2.33	0.44
2:JB:276:VAL:HG23	2:JB:280:LYS:NZ	2.32	0.44
1:JC:139:LEU:CD1	1:JC:168:SER:HB2	2.47	0.44
2:JF:72:PRO:HA	2:JF:94:SER:HB2	2.00	0.44
1:JG:208:TYR:CE1	1:JG:225:LEU:HD11	2.52	0.44
1:JI:257:LEU:HA	1:JI:312:THR:HG21	1.99	0.44
1:JI:316:LEU:HD13	1:JI:352:SER:OG	2.17	0.44
1:JI:316:LEU:O	1:JI:365:VAL:HA	2.17	0.44
1:JI:332:ASN:OD1	1:JI:333:VAL:N	2.51	0.44
2:JJ:319:TYR:CD2	2:JJ:323:VAL:HG11	2.53	0.44
2:JJ:326:LYS:HE2	1:JK:220:PRO:HG2	1.98	0.44
1:JK:62:ARG:HD2	1:JK:127:CYS:SG	2.58	0.44
2:JL:50:ASN:O	2:JL:64:ARG:NH2	2.50	0.44
2:JL:75:VAL:HG11	2:JL:92:LEU:O	2.18	0.44
2:JN:298:PRO:HG2	2:JN:308:ARG:HH21	1.82	0.44
1:KA:332:ASN:HB3	1:KA:336:LYS:HZ1	1.83	0.44
1:KE:209:ASP:O	1:KE:213:ARG:HG2	2.18	0.44
1:KE:253:LEU:HD21	1:KE:316:LEU:HD11	2.00	0.44
2:KF:248:LEU:HB2	2:KF:355:ILE:H	1.82	0.44
1:KG:262:ARG:HH21	1:KG:421:GLU:HG3	1.81	0.44
2:KH:271:SER:OG	2:KH:377:MET:HE2	2.18	0.44
2:KJ:27:GLU:HG2	2:KJ:243:ARG:NH1	2.33	0.44
2:KJ:155:GLU:HG2	2:KJ:197:HIS:CE1	2.52	0.44
1:KK:22:GLU:HG2	1:KK:81:TYR:CD2	2.53	0.44
1:KK:249:ASP:H	1:KK:252:LYS:HB3	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KK:259:PRO:HG2	1:KK:263:LEU:HD12	1.99	0.44
2:KL:27:GLU:HA	2:KL:361:THR:HG21	2.00	0.44
1:KM:19:LYS:NZ	1:KM:227:HIS:HB2	2.30	0.44
1:KM:301:GLN:OE1	1:KM:377:MET:HE1	2.18	0.44
2:L:362:VAL:HG21	23:1D:70:GLN:NE2	2.32	0.44
1:LC:229:VAL:O	1:LC:233:MET:HG3	2.17	0.44
2:LF:259:LEU:HD21	2:LF:268:VAL:HG11	1.99	0.44
2:LH:51:THR:HG21	2:LH:243:ARG:HG3	1.98	0.44
2:LH:250:VAL:HG21	2:LH:318:MET:HE1	2.00	0.44
2:LJ:172:TYR:CE2	2:LJ:203:MET:HE1	2.52	0.44
1:LK:323:THR:HA	1:LK:326:VAL:HG12	2.00	0.44
2:LL:21:TRP:CZ2	2:LL:65:CYS:HB3	2.52	0.44
2:LL:215:ARG:HH21	2:LL:299:ALA:HB1	1.82	0.44
2:LN:56:THR:HA	2:MM:285:GLN:HG3	1.98	0.44
1:M:162:ARG:NE	1:M:162:ARG:HA	2.32	0.44
1:M:392:LYS:HE3	1:M:392:LYS:HB3	1.84	0.44
2:MC:33:ASP:HA	2:MC:85:GLN:HB2	2.00	0.44
2:MC:295:VAL:HG12	2:MC:377:MET:HE2	1.98	0.44
1:MD:65:LEU:HD11	1:MD:76:VAL:HG21	1.99	0.44
1:MD:279:GLN:HE22	23:1A:162:GLN:HB3	1.82	0.44
1:MD:306:ARG:HD2	1:MD:340:TYR:HE1	1.82	0.44
1:MH:21:TRP:CZ3	1:MH:50:TYR:HB3	2.53	0.44
2:MI:21:TRP:CZ2	2:MI:65:CYS:HB3	2.53	0.44
1:MJ:251:ARG:CZ	2:MK:105:ARG:HH21	2.31	0.44
1:ML:255:VAL:HG23	2:MM:407:TRP:CG	2.52	0.44
1:ML:395:LEU:HD12	1:ML:395:LEU:HA	1.80	0.44
2:MM:174:SER:OG	2:MM:207:GLU:HG2	2.17	0.44
1:N:68:LEU:HB3	1:N:96:GLY:HA2	2.00	0.44
2:NA:217:LEU:HD12	2:NA:367:ASP:HB2	1.99	0.44
1:NB:293:MET:HE1	1:NB:365:VAL:HG11	1.99	0.44
2:NC:175:PRO:HB3	2:NC:390:ARG:CD	2.48	0.44
1:NF:262:ARG:HH22	1:NF:421:GLU:HG3	1.82	0.44
2:NI:265:ILE:HG23	2:NI:432:TYR:CE1	2.52	0.44
2:NI:326:LYS:NZ	1:NJ:219:THR:C	2.76	0.44
1:NJ:211:CYS:HB3	1:NJ:220:PRO:CG	2.47	0.44
2:NK:287:SER:HA	2:NK:373:ARG:HH21	1.82	0.44
1:NL:215:LEU:HB3	1:NL:217:LEU:HD23	1.98	0.44
1:OB:20:PHE:HA	1:OB:230:ALA:HB1	2.00	0.44
1:OB:207:LEU:HA	1:OB:210:ILE:HD12	2.00	0.44
2:OE:175:PRO:HG3	2:OE:390:ARG:NH1	2.33	0.44
2:OG:318:MET:O	2:OG:375:VAL:HA	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OH:316:LEU:HD22	1:OH:352:SER:OG	2.17	0.44
2:OI:422:ARG:HD2	2:OI:422:ARG:HA	1.80	0.44
1:OJ:215:LEU:HD21	1:OJ:273:LEU:HD23	1.99	0.44
2:OK:167:LEU:HD23	2:OK:200:VAL:HB	1.99	0.44
2:OK:277:SER:O	2:OK:281:ALA:CB	2.66	0.44
1:OL:287:ALA:HA	1:OL:329:GLN:NE2	2.32	0.44
2:OM:195:LEU:HD21	2:OM:428:LEU:HD22	2.00	0.44
2:OM:241:SER:OG	2:OM:250:VAL:N	2.35	0.44
2:PA:172:TYR:HD2	2:PA:203:MET:HG3	1.82	0.44
2:PA:306:ASP:HB3	2:PA:309:HIS:ND1	2.32	0.44
2:PA:402:ARG:HG3	2:PA:402:ARG:NH1	2.33	0.44
1:PB:11:GLN:HA	1:PB:72:THR:HG21	2.00	0.44
1:PB:165:MET:HE1	1:PB:198:GLU:OE2	2.17	0.44
2:PC:258:ASN:ND2	2:PC:352:LYS:HB2	2.32	0.44
2:PE:326:LYS:HD2	1:PF:212:PHE:CE1	2.53	0.44
2:PG:90:GLU:HB2	2:PG:121:ARG:CZ	2.47	0.44
1:PH:73:MET:HG3	1:PH:92:PHE:HB3	1.99	0.44
1:PH:334:GLN:HE22	1:PH:348:ASN:N	2.15	0.44
1:PJ:295:ASP:OD2	1:PJ:297:LYS:NZ	2.48	0.44
2:PM:422:ARG:HH11	2:PM:422:ARG:HA	1.82	0.44
2:Q:99:ALA:HA	2:Q:110:ILE:HD11	1.99	0.44
1:QA:324:LYS:HZ2	2:QB:222:PRO:HD2	1.79	0.44
2:QB:98:ASP:N	2:QB:98:ASP:OD1	2.50	0.44
2:QB:182:VAL:HG22	2:QB:185:TYR:HB2	1.98	0.44
2:QB:212:LEU:HD21	2:QB:275:VAL:HG11	1.99	0.44
2:QB:352:LYS:HD2	1:QC:177:ASP:O	2.18	0.44
1:QC:20:PHE:O	1:QC:24:ILE:HG12	2.17	0.44
1:QC:87:PRO:HD3	1:RC:281:TYR:CD1	2.53	0.44
2:QD:215:ARG:HG3	59:4a:201:TYR:HE1	1.83	0.44
2:QD:257:THR:HG21	1:QE:99:ASN:HB2	2.00	0.44
1:QE:61:PRO:HD3	1:QE:84:LEU:HG	1.99	0.44
2:QF:121:ARG:HH11	2:QF:124:LYS:NZ	2.16	0.44
2:QH:170:THR:O	2:QH:203:MET:HA	2.18	0.44
2:QJ:74:VAL:O	2:QJ:78:VAL:HG23	2.18	0.44
2:QJ:273:ALA:HB3	2:QJ:295:VAL:HG23	1.99	0.44
1:QK:102:ALA:HB2	1:QK:403:MET:HE2	1.98	0.44
1:RA:183:TYR:OH	1:RA:393:ALA:O	2.25	0.44
1:RA:186:THR:HA	1:RA:189:VAL:HG22	1.99	0.44
1:RC:85:PHE:HB2	1:RC:90:PHE:HE1	1.82	0.44
1:RC:232:VAL:HG23	1:RC:366:THR:HB	1.99	0.44
2:RD:345:ASP:OD1	2:RD:346:TRP:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RE:187:LEU:HD21	1:RE:408:PHE:CE1	2.52	0.44
2:RJ:89:PRO:HD2	2:RJ:90:GLU:OE1	2.17	0.44
2:RJ:318:MET:O	2:RJ:375:VAL:HA	2.18	0.44
1:SB:131:GLN:O	1:SB:163:ILE:HG22	2.16	0.44
1:SD:325:GLU:HG2	1:SD:326:VAL:N	2.33	0.44
2:SE:296:PHE:CE2	2:SE:377:MET:HE1	2.52	0.44
2:SG:252:LEU:HA	2:SG:255:PHE:CE1	2.53	0.44
2:SK:11:GLN:N	71:SK:501:GTP:O2B	2.51	0.44
2:SK:117:LEU:O	2:SK:121:ARG:HG2	2.18	0.44
1:T:345:ILE:HD11	2:TA:404:PHE:HE2	1.83	0.44
2:TA:273:ALA:HB3	2:TA:295:VAL:HG23	1.99	0.44
2:TA:288:VAL:HG22	2:TA:323:VAL:HG12	1.99	0.44
1:TB:152:ILE:HG22	1:TB:195:ASN:HB3	2.00	0.44
1:TB:210:ILE:CD1	1:TB:300:MET:HB3	2.47	0.44
1:TB:334:GLN:NE2	1:TB:348:ASN:HB2	2.31	0.44
2:TC:205:ASP:OD1	2:TC:303:THR:HA	2.17	0.44
2:TC:285:GLN:NE2	2:TC:287:SER:HB3	2.32	0.44
2:TC:292:THR:HA	2:TC:295:VAL:HG12	1.98	0.44
2:TE:253:THR:HA	2:TE:256:GLN:HG3	1.99	0.44
1:TH:185:THR:O	1:TH:189:VAL:HG13	2.17	0.44
1:TJ:168:SER:O	1:TJ:201:CYS:HA	2.18	0.44
2:TK:83:TYR:HB3	2:TK:86:LEU:HB3	2.00	0.44
1:UB:21:TRP:CZ2	1:UB:63:ALA:HB2	2.53	0.44
1:UD:237:THR:HG22	1:UD:250:LEU:HD21	1.99	0.44
2:UE:326:LYS:HE3	1:UF:220:PRO:HD2	1.99	0.44
2:UG:241:SER:OG	2:UG:250:VAL:O	2.18	0.44
2:UG:402:ARG:HG3	2:UG:402:ARG:HH11	1.81	0.44
2:UK:19:ALA:HA	2:UK:22:GLU:HG2	2.00	0.44
2:UK:319:TYR:CD2	2:UK:323:VAL:HG11	2.52	0.44
1:UL:377:MET:HA	1:UL:380:ARG:HB3	1.98	0.44
1:V:303:ALA:HB1	1:V:373:CYS:SG	2.57	0.44
1:V:398:TYR:HD1	1:V:408:PHE:HZ	1.64	0.44
1:VB:316:LEU:HB2	1:VB:366:THR:HB	1.99	0.44
1:VB:390:ARG:HH11	1:VB:390:ARG:HG3	1.82	0.44
2:VC:102:ASN:HB3	2:VC:105:ARG:HB2	1.99	0.44
1:VD:350:LYS:HD3	2:VE:180:ALA:HA	2.00	0.44
2:VE:3:GLU:OE1	2:VE:4:ALA:N	2.49	0.44
2:VE:169:TYR:HA	2:VE:202:THR:HB	1.99	0.44
1:VH:198:GLU:HB2	1:VH:266:PHE:CE2	2.49	0.44
1:VH:214:THR:OG1	1:VH:297:LYS:NZ	2.51	0.44
2:VI:84:ARG:HB2	2:VI:84:ARG:NH1	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VJ:35:THR:OG1	1:VJ:37:GLN:NE2	2.26	0.44
2:VK:115:VAL:HG22	2:VK:119:LEU:HD23	1.98	0.44
2:VK:301:MET:HE2	2:VK:301:MET:HB3	1.84	0.44
1:VL:267:MET:HE3	1:VL:299:MET:HE2	2.00	0.44
2:VM:293:ASN:O	2:VM:297:GLU:HG2	2.18	0.44
2:WA:3:GLU:HA	2:WA:51:THR:HA	1.99	0.44
2:WC:184:PRO:HA	2:WC:391:ILE:HD11	2.00	0.44
2:WC:328:VAL:O	2:WC:332:ILE:HG12	2.18	0.44
1:WD:232:VAL:O	1:WD:236:VAL:HG23	2.17	0.44
1:WF:256:ASN:ND2	2:WG:101:ASN:HD22	2.05	0.44
2:WG:172:TYR:OH	2:WG:267:PHE:HE2	1.99	0.44
2:WG:352:LYS:NZ	1:WH:99:ASN:HD22	2.14	0.44
1:WH:13:GLY:HA2	1:WH:16:ILE:HG22	1.99	0.44
1:WH:13:GLY:O	1:WH:16:ILE:HG22	2.18	0.44
1:WH:111:GLU:OE1	5:XP:150:LYS:NZ	2.41	0.44
1:WH:204:ASN:HD21	69:WH:500:GDP:HN22	1.64	0.44
2:WM:341:ILE:O	2:WM:341:ILE:HG13	2.18	0.44
5:XN:127:VAL:HG13	5:XN:176:ARG:HD2	1.98	0.44
5:XP:80:ILE:HG12	32:2C:74:ARG:HG3	1.98	0.44
6:0:126:SER:OG	6:0:129:THR:OG1	2.17	0.44
7:0D:116:TYR:CE2	7:0D:118:SER:HB3	2.53	0.44
9:0M:464:GLU:HB2	9:0M:493:TRP:HH2	1.80	0.44
11:0U:216:ILE:HD12	11:0U:300:LEU:HD23	1.98	0.44
11:0U:316:THR:HG21	11:0U:322:GLY:HA2	1.99	0.44
12:0W:136:ILE:HD12	12:0W:141:LEU:HB2	1.98	0.44
13:0Z:262:PHE:CZ	13:0Z:266:LYS:HE2	2.52	0.44
14:0d:247:ARG:O	14:0d:251:GLU:OE1	2.36	0.44
14:0d:364:GLN:HE21	21:0w:34:ASN:HD22	1.63	0.44
16:0l:899:HIS:O	16:0l:903:THR:HG23	2.17	0.44
16:0l:969:LYS:HD3	16:0l:969:LYS:HA	1.79	0.44
16:0k:773:ILE:O	16:0k:777:LEU:HD23	2.17	0.44
24:1H:476:LYS:HE2	24:1H:484:TYR:HE2	1.83	0.44
24:1J:357:LYS:HZ3	24:1J:359:HIS:CE1	2.35	0.44
24:1J:454:VAL:HG11	24:1J:498:LEU:HD11	1.99	0.44
27:1T:788:ARG:HD2	27:1T:808:LEU:HD11	1.99	0.44
27:1T:824:ARG:HG3	27:1T:824:ARG:NH1	2.33	0.44
28:1a:239:THR:HG23	28:1b:28:HIS:NE2	2.07	0.44
28:1h:114:ASN:HA	28:1h:118:PHE:HD2	1.82	0.44
29:1j:59:ASP:OD1	29:1j:59:ASP:N	2.48	0.44
29:1l:200:PHE:HD1	29:1l:206:ALA:HA	1.83	0.44
30:1o:49:GLU:HG2	30:1o:52:ARG:NH2	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:1q:61:TYR:HD1	31:1q:72:MET:HG3	1.83	0.44
37:2S:128:LYS:HG3	37:2S:230:GLY:HA3	2.00	0.44
38:2U:87:HIS:NE2	38:2U:92:TRP:HB2	2.32	0.44
41:2c:342:ASN:O	41:2c:345:ARG:HD3	2.18	0.44
41:2h:171:GLU:OE1	41:2h:174:ARG:NH2	2.51	0.44
41:2p:447:ARG:O	41:2p:450:ARG:N	2.51	0.44
42:2r:190:PHE:HZ	42:2r:245:VAL:HG13	1.81	0.44
44:2v:228:MET:HB2	44:2v:291:ILE:HB	2.00	0.44
44:2v:337:ASN:ND2	44:2v:401:THR:O	2.51	0.44
44:2w:293:TYR:CE1	44:2w:297:MET:HG3	2.53	0.44
45:2y:213:PRO:HB2	45:2y:229:PHE:CE2	2.51	0.44
45:2z:177:LEU:HD12	45:2z:177:LEU:HA	1.82	0.44
46:3B:274:VAL:HG13	46:3B:281:ALA:HA	1.99	0.44
49:3P:401:MET:HE3	49:3P:405:ILE:HG12	1.99	0.44
57:3h:26:ARG:HD2	57:3h:29:TYR:HD2	1.82	0.44
57:3i:86:ARG:HA	57:3i:89:GLU:HG3	1.98	0.44
60:3r:26:ARG:O	60:3r:30:GLN:HB2	2.18	0.44
60:3r:140:GLU:O	60:3r:144:ARG:HB2	2.18	0.44
64:5B:170:GLN:HG2	65:5G:166:PHE:HZ	1.82	0.44
64:5C:160:LEU:HD21	65:5H:159:ILE:CG1	2.48	0.44
66:5L:95:PRO:HA	66:5L:124:ARG:NH1	2.32	0.44
68:5T:94:CYS:HB3	68:5T:96:GLN:OE1	2.17	0.44
1:A:208:TYR:O	1:A:212:PHE:HD1	2.01	0.44
2:AC:110:ILE:O	2:AC:113:GLU:HG2	2.17	0.44
1:AD:183:TYR:HA	1:AD:385:PHE:CE2	2.53	0.44
1:AD:183:TYR:OH	1:AD:393:ALA:O	2.32	0.44
2:AE:240:ALA:HB2	2:AE:320:ARG:HH12	1.82	0.44
1:AF:11:GLN:HA	1:AF:72:THR:HG21	1.98	0.44
2:AG:26:LEU:HD12	25:1O:91:PHE:HE1	1.83	0.44
1:AH:246:LEU:HA	2:AI:11:GLN:HE22	1.83	0.44
2:AK:346:TRP:CD1	1:AL:391:ARG:HD2	2.52	0.44
1:AL:347:ASN:ND2	2:AM:178:SER:OG	2.47	0.44
2:BC:169:TYR:CE2	2:BC:235:VAL:HG22	2.53	0.44
2:BC:398:MET:HE1	2:BC:404:PHE:CD2	2.53	0.44
2:BG:152:LEU:O	2:BG:156:ARG:HG2	2.18	0.44
2:BG:262:TYR:HB2	2:BG:265:ILE:HG12	1.99	0.44
2:BK:340:THR:HG23	2:BK:341:ILE:HG23	1.99	0.44
2:BM:122:ILE:HD13	2:BM:157:LEU:HD21	1.99	0.44
2:BM:387:VAL:O	2:BM:391:ILE:HG12	2.18	0.44
1:CA:139:LEU:HA	1:CA:145:SER:HB3	1.98	0.44
2:CB:326:LYS:HA	2:CB:326:LYS:HD3	1.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CD:231:ILE:O	2:CD:235:VAL:HG23	2.18	0.44
1:CG:186:THR:HG22	1:CG:411:ALA:HB1	1.99	0.44
2:CH:211:ASP:C	2:CH:215:ARG:HH11	2.25	0.44
1:CI:77:ARG:HG2	24:1I:300:PHE:CD2	2.52	0.44
2:CJ:214:ARG:HA	2:CJ:219:ILE:O	2.17	0.44
1:DE:148:GLY:O	1:DE:152:ILE:HG12	2.18	0.44
2:DH:122:ILE:HG21	2:DH:157:LEU:HD21	1.98	0.44
2:DJ:358:GLN:OE1	2:DJ:358:GLN:HA	2.18	0.44
1:DK:324:LYS:HG3	2:DL:221:ARG:HA	1.99	0.44
2:DL:123:ARG:HH11	2:DL:123:ARG:HG2	1.83	0.44
1:DM:179:VAL:HG23	1:DM:180:VAL:HG13	1.99	0.44
1:ED:238:CYS:HA	1:ED:241:ARG:HH21	1.82	0.44
2:EG:215:ARG:HH22	2:EG:300:GLY:HA2	1.83	0.44
2:EI:138:PHE:HE2	2:EI:235:VAL:HG11	1.83	0.44
2:EI:153:LEU:HD23	2:EI:157:LEU:HG	1.99	0.44
2:EK:2:ARG:HG3	2:EK:2:ARG:HH11	1.83	0.44
2:EK:149:LEU:HD12	2:EK:149:LEU:HA	1.82	0.44
1:FB:37:GLN:OE1	1:FB:37:GLN:N	2.50	0.44
2:FC:274:PRO:HG2	2:FC:371:VAL:HG21	2.00	0.44
1:FD:121:ARG:HE	1:FD:158:GLU:CD	2.25	0.44
2:FG:9:ILE:HG22	2:FG:146:GLY:HA2	1.99	0.44
2:FG:58:ALA:HB1	10:0S:421:GLN:OE1	2.17	0.44
2:FG:270:THR:HG23	2:FG:302:LEU:HB2	1.99	0.44
1:FH:270:PHE:CD2	1:FH:273:LEU:HD11	2.53	0.44
2:FI:165:SER:C	2:FI:166:LYS:HD2	2.43	0.44
2:FI:254:GLU:OE1	1:FJ:99:ASN:HB2	2.18	0.44
2:FK:326:LYS:HZ1	1:FL:220:PRO:C	2.22	0.44
1:FL:167:PHE:CZ	1:FL:233:MET:HG2	2.52	0.44
1:G:403:MET:HE1	1:G:408:PHE:HZ	1.82	0.44
1:G:419:VAL:O	1:G:423:GLN:HG2	2.18	0.44
2:GA:301:MET:HE2	2:GA:301:MET:HB2	1.84	0.44
1:GB:398:TYR:HB3	1:GB:403:MET:HG3	1.98	0.44
2:GC:275:VAL:HG13	2:GC:275:VAL:O	2.16	0.44
2:GC:345:ASP:OD2	2:GC:439:SER:N	2.49	0.44
2:GC:362:VAL:HG11	10:0R:211:GLN:NE2	2.32	0.44
2:GE:335:ILE:HG23	2:GE:341:ILE:HD11	1.99	0.44
2:GG:209:ILE:HG12	2:GG:302:LEU:HG	1.99	0.44
1:GH:83:GLN:O	1:HH:281:TYR:OH	2.21	0.44
1:GH:165:MET:HA	1:GH:165:MET:HE2	1.99	0.44
1:GH:279:GLN:HG2	10:0S:399:LEU:HD11	1.99	0.44
1:GJ:21:TRP:CZ3	1:GJ:50:TYR:HB3	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GK:32:PRO:HD3	43:2t:390:TYR:CE2	2.53	0.44
1:HB:4:ILE:HD11	1:HB:131:GLN:NE2	2.33	0.44
2:HC:104:ALA:HB1	2:HC:411:GLU:HB2	1.99	0.44
1:HD:179:VAL:HG21	1:HD:394:PHE:CE1	2.53	0.44
1:HD:193:VAL:HA	1:HD:264:HIS:CE1	2.53	0.44
1:HD:268:MET:SD	1:HD:269:GLY:N	2.91	0.44
2:HI:60:LYS:HD3	2:II:282:TYR:HE2	1.82	0.44
2:HI:227:VAL:O	2:HI:231:ILE:HG13	2.17	0.44
1:HL:342:ILE:HD12	1:HL:344:TRP:CE2	2.52	0.44
2:IC:204:LEU:HD13	2:IC:231:ILE:HD13	1.99	0.44
1:ID:190:HIS:CE1	1:ID:191:GLN:HG2	2.52	0.44
1:IF:329:GLN:HA	1:IF:332:ASN:HB2	1.99	0.44
1:IH:283:GLY:HA3	7:0D:164:LEU:HD21	2.00	0.44
1:IJ:211:CYS:HB3	1:IJ:220:PRO:HG2	2.00	0.44
2:J:21:TRP:CZ2	2:J:65:CYS:HB3	2.53	0.44
2:J:294:SER:O	2:J:297:GLU:HG3	2.17	0.44
1:JA:61:PRO:HD3	1:JA:84:LEU:HG	2.00	0.44
1:JC:331:LEU:HD11	2:JD:176:GLN:HB3	2.00	0.44
1:JE:61:PRO:HD3	1:JE:84:LEU:HG	1.98	0.44
2:JF:9:ILE:HD13	2:JF:68:LEU:HB3	2.00	0.44
2:JF:252:LEU:HA	2:JF:255:PHE:CE1	2.53	0.44
1:JG:324:LYS:HD3	2:JH:210:TYR:CD1	2.53	0.44
2:JH:319:TYR:HB3	2:JH:323:VAL:HG21	1.99	0.44
2:JJ:70:LEU:HD22	2:JJ:110:ILE:HG22	1.99	0.44
2:JL:230:LEU:HG	2:JL:302:LEU:HD21	1.98	0.44
1:KA:327:ASP:OD2	2:KB:177:VAL:HG21	2.17	0.44
1:KC:129:CYS:HB3	2:KD:96:LYS:HE2	2.00	0.44
2:KF:288:VAL:HA	2:KF:291:ILE:HG12	2.00	0.44
1:KG:272:PRO:HD2	1:KG:361:LEU:HD21	2.00	0.44
1:KK:144:GLY:N	69:KK:500:GDP:O2B	2.45	0.44
1:KK:200:MET:HB3	1:KK:268:MET:SD	2.58	0.44
1:KK:268:MET:HB3	1:KK:300:MET:HG2	2.00	0.44
1:KK:284:LEU:HD22	1:KK:362:LYS:HE3	1.99	0.44
2:KL:53:PHE:HB3	2:KL:61:HIS:HB3	1.99	0.44
2:KL:234:VAL:HG13	2:KL:376:CYS:SG	2.58	0.44
1:KM:209:ASP:O	1:KM:213:ARG:HG2	2.18	0.44
2:KN:68:LEU:HD23	2:KN:93:VAL:HB	1.99	0.44
2:KN:392:ASP:OD1	2:KN:393:HIS:N	2.51	0.44
2:L:297:GLU:HG3	2:L:299:ALA:H	1.83	0.44
2:LB:251:ASP:H	2:LB:254:GLU:HB3	1.82	0.44
1:LC:198:GLU:HB2	1:LC:266:PHE:CE2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LE:50:TYR:HD2	1:LE:241:ARG:HD3	1.83	0.44
1:LE:304:ASP:OD2	35:2N:211:TYR:HD2	2.01	0.44
1:LE:306:ARG:HD2	35:2N:214:PHE:HB2	1.99	0.44
1:LG:99:ASN:HD21	1:LG:178:THR:CG2	2.31	0.44
2:LH:367:ASP:OD1	2:LH:368:LEU:N	2.51	0.44
1:LI:322:SER:OG	1:LI:325:GLU:OE1	2.30	0.44
1:LK:344:TRP:HZ3	2:LL:403:ALA:HB2	1.83	0.44
2:LL:431:ASP:OD2	2:LL:432:TYR:N	2.50	0.44
1:LM:359:LYS:HB3	23:1F:388:ASP:OD2	2.18	0.44
2:LN:191:THR:HB	2:LN:425:LEU:HD21	2.00	0.44
2:LN:195:LEU:HA	2:LN:266:HIS:CE1	2.52	0.44
1:LO:40:SER:HB2	29:1m:211:MET:HE3	1.99	0.44
1:LO:344:TRP:CD1	1:LO:344:TRP:H	2.35	0.44
1:M:325:GLU:OE1	2:MA:221:ARG:HD3	2.16	0.44
2:MC:102:ASN:HB3	2:MC:105:ARG:HB3	1.99	0.44
2:MC:304:LYS:NZ	13:0Y:41:THR:O	2.34	0.44
1:MF:194:GLU:OE2	4:XO:75:HIS:HA	2.17	0.44
1:MF:309:ARG:HB3	1:MF:342:ILE:HG23	1.99	0.44
1:MF:392:LYS:HD2	33:2G:142:ASP:O	2.18	0.44
2:MG:167:LEU:HD23	2:MG:200:VAL:HB	1.98	0.44
1:MH:228:LEU:O	1:MH:232:VAL:HG23	2.18	0.44
1:MH:317:PHE:HB2	1:MH:353:ILE:HD13	1.98	0.44
2:MI:204:LEU:HD22	2:MI:231:ILE:HG12	2.00	0.44
2:MI:422:ARG:HG2	13:0Z:179:ILE:HD13	2.00	0.44
1:MJ:15:GLN:HB2	69:MJ:500:GDP:O6	2.17	0.44
1:MJ:46:ARG:NH2	2:MK:76:ASP:OD2	2.50	0.44
1:N:379:ARG:HH22	1:N:423:GLN:NE2	2.14	0.44
2:NC:88:ASN:HB3	2:NC:91:GLN:HG2	1.98	0.44
2:NE:223:SER:O	2:NE:227:VAL:HG23	2.18	0.44
2:NI:346:TRP:CZ3	2:NI:347:CYS:HB2	2.52	0.44
1:NJ:170:ILE:HD13	1:NJ:377:MET:HE2	1.99	0.44
1:NL:347:ASN:C	1:NL:347:ASN:HD22	2.24	0.44
2:OA:295:VAL:HG11	2:OA:377:MET:SD	2.57	0.44
2:OC:169:TYR:CE1	2:OC:235:VAL:HG22	2.53	0.44
2:OC:250:VAL:HG11	2:OC:352:LYS:NZ	2.32	0.44
2:OE:3:GLU:OE2	2:OE:129:CYS:HB3	2.16	0.44
2:OE:80:THR:OG1	41:2k:146:ARG:NH2	2.51	0.44
2:OE:360:PRO:HG2	2:OE:374:ALA:HB3	1.99	0.44
1:OF:97:ALA:O	1:OF:103:LYS:HD2	2.17	0.44
1:OF:249:ASP:OD1	1:OF:252:LYS:HG2	2.17	0.44
2:OG:64:ARG:HD3	2:OG:129:CYS:SG	2.58	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OG:116:ASP:OD1	2:OG:116:ASP:N	2.48	0.44
2:OI:257:THR:HG21	1:OJ:98:GLY:O	2.18	0.44
1:OJ:379:ARG:HG3	1:OJ:379:ARG:HH11	1.83	0.44
2:OK:22:GLU:HG2	2:OK:83:TYR:CE2	2.53	0.44
2:PA:180:ALA:HB3	2:PA:183:GLU:HB3	1.99	0.44
2:PC:288:VAL:HG21	2:PC:323:VAL:HG23	1.99	0.44
1:PD:346:PRO:HD2	2:PE:398:MET:CE	2.47	0.44
2:PI:112:LYS:HA	2:PI:115:VAL:HG22	2.00	0.44
1:PJ:133:PHE:CD2	1:PJ:155:LEU:HD13	2.53	0.44
2:PM:195:LEU:HA	2:PM:266:HIS:HE1	1.82	0.44
2:PM:248:LEU:HD22	2:PM:353:CYS:O	2.17	0.44
2:Q:119:LEU:HD11	2:Q:160:ASP:OD2	2.18	0.44
1:QA:65:LEU:HG	1:QA:90:PHE:CD2	2.53	0.44
1:QA:110:ALA:O	1:QA:113:ILE:HG22	2.18	0.44
1:QA:255:VAL:HG23	2:QB:407:TRP:CG	2.53	0.44
1:QA:276:ARG:HA	1:QA:276:ARG:HD2	1.74	0.44
1:QC:4:ILE:HB	1:QC:50:TYR:CE1	2.53	0.44
2:QD:345:ASP:OD1	2:QD:346:TRP:N	2.50	0.44
2:QF:260:VAL:HB	1:QG:397:TRP:HZ2	1.82	0.44
2:QF:293:ASN:O	2:QF:297:GLU:HG2	2.18	0.44
2:QH:413:MET:HE2	2:QH:417:GLU:HG2	2.00	0.44
1:QK:117:LEU:HD11	1:QK:154:LYS:HD3	2.00	0.44
2:QL:134:GLY:HA3	2:QL:165:SER:HB2	2.00	0.44
1:RA:125:GLU:HB3	59:3o:286:GLY:HA2	2.00	0.44
1:RA:167:PHE:CE1	1:RA:233:MET:HG2	2.53	0.44
1:RC:202:ILE:HD12	1:RC:229:VAL:HG22	2.00	0.44
2:RD:8:HIS:ND1	2:RD:17:GLY:HA3	2.31	0.44
2:RD:250:VAL:CG1	2:RD:318:MET:HE1	2.48	0.44
2:RF:5:ILE:HD13	2:RF:64:ARG:HG2	2.00	0.44
1:RG:193:VAL:HG11	1:RG:262:ARG:HH21	1.82	0.44
2:RH:431:ASP:O	2:RH:435:VAL:HG23	2.17	0.44
1:RI:107:THR:HG21	1:RI:401:GLU:OE1	2.18	0.44
1:S:346:PRO:HG3	2:SA:394:LYS:HG2	1.98	0.44
1:SB:239:CYS:HB2	1:SB:248:SER:O	2.18	0.44
2:SC:68:LEU:HD12	2:SC:93:VAL:HB	2.00	0.44
2:SC:225:THR:HG22	28:1U:149:MET:HE2	1.99	0.44
1:SD:166:THR:HG22	1:SD:198:GLU:O	2.18	0.44
1:SD:326:VAL:HG21	1:SD:353:ILE:HD11	2.00	0.44
2:SE:65:CYS:SG	2:SE:66:LEU:N	2.91	0.44
2:SI:195:LEU:HA	2:SI:266:HIS:CE1	2.51	0.44
2:SI:365:GLY:C	41:2c:320:LYS:NZ	2.76	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:184:ASN:ND2	1:T:398:TYR:OH	2.49	0.44
2:TE:52:PHE:CE2	2:TE:243:ARG:HD2	2.53	0.44
1:TJ:362:LYS:HG2	21:0x:495:PHE:CE1	2.52	0.44
1:U:20:PHE:HA	1:U:230:ALA:HB1	1.99	0.44
2:UA:295:VAL:HG11	2:UA:377:MET:HG3	2.00	0.44
2:UC:331:ALA:O	2:UC:335:ILE:HG12	2.18	0.44
2:UI:352:LYS:HA	1:UJ:177:ASP:C	2.43	0.44
1:UJ:245:GLN:OE1	2:UK:223:SER:OG	2.34	0.44
1:UL:143:THR:N	69:UL:500:GDP:O2B	2.50	0.44
1:UL:384:GLN:O	1:UL:388:MET:HG2	2.18	0.44
1:V:310:TYR:HB2	1:V:341:PHE:HD1	1.83	0.44
1:VB:345:ILE:HA	2:VC:398:MET:HE3	2.00	0.44
1:VD:145:SER:HB2	1:VD:188:SER:OG	2.17	0.44
2:VI:396:ASP:OD2	2:VI:422:ARG:NH2	2.46	0.44
1:VJ:232:VAL:HG21	1:VJ:300:MET:SD	2.57	0.44
2:VM:425:LEU:O	2:VM:429:GLU:OE1	2.36	0.44
2:WA:155:GLU:HG2	2:WA:197:HIS:CD2	2.53	0.44
2:WA:273:ALA:HB3	2:WA:295:VAL:HG23	1.99	0.44
2:WA:346:TRP:CD1	1:WB:391:ARG:HG3	2.52	0.44
1:WD:110:ALA:O	1:WD:113:ILE:HG22	2.17	0.44
1:WF:125:GLU:OE2	3:XC:17:ILE:HA	2.17	0.44
1:WF:204:ASN:OD1	69:WF:500:GDP:O2'	2.34	0.44
1:WF:386:THR:HG22	1:WF:412:GLU:OE2	2.17	0.44
1:WJ:151:LEU:O	1:WJ:155:LEU:HD13	2.17	0.44
2:WK:75:VAL:HG13	2:WK:92:LEU:HG	1.98	0.44
2:WK:234:VAL:HG13	2:WK:376:CYS:SG	2.58	0.44
3:XF:180:GLU:HG2	3:XF:181:PHE:HD1	1.82	0.44
4:XQ:4:TYR:HH	9:0N:215:TYR:HH	1.58	0.44
4:XQ:174:MET:O	4:XQ:178:ARG:HG3	2.18	0.44
6:0:156:LEU:HA	6:0:160:ALA:HB2	1.98	0.44
7:0D:220:TYR:O	7:0D:224:VAL:HG12	2.17	0.44
9:0M:391:ARG:HD3	9:0M:393:PHE:HZ	1.83	0.44
9:0N:349:ARG:HG2	9:0N:361:ARG:HD2	1.99	0.44
9:0N:509:TYR:O	9:0N:511:ARG:HG3	2.16	0.44
9:0N:535:ASP:OD1	21:0w:89:LYS:HD3	2.18	0.44
9:0O:101:ILE:HG22	9:0O:102:HIS:CD2	2.52	0.44
11:0U:11:VAL:HG12	11:0U:75:ILE:HG12	1.99	0.44
11:0U:284:CYS:SG	11:0U:313:VAL:HG11	2.57	0.44
12:0W:95:SER:HA	12:0W:156:THR:HG22	1.99	0.44
14:0d:248:VAL:O	14:0d:252:ILE:HG12	2.18	0.44
14:0d:339:LYS:H	14:0d:339:LYS:HG2	1.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:0l:548:VAL:HG12	16:0l:552:PHE:CE2	2.52	0.44
16:0l:570:VAL:O	16:0l:574:GLN:HG3	2.18	0.44
16:0k:19:VAL:O	16:0k:23:ARG:HA	2.18	0.44
17:0n:278:GLU:O	17:0n:282:GLU:HG2	2.18	0.44
20:0t:191:ILE:HD11	20:0t:213:ILE:HG12	1.99	0.44
23:1A:45:MET:HB3	23:1B:397:LEU:HD22	2.00	0.44
23:1B:353:ARG:HG3	23:1B:353:ARG:HH11	1.81	0.44
23:1E:359:LEU:HA	23:1E:362:THR:HG22	1.99	0.44
24:1H:516:MET:HG3	24:1H:526:SER:HB2	2.00	0.44
24:1H:680:ILE:HD13	24:1H:683:TYR:HD2	1.83	0.44
24:1I:730:GLU:OE1	24:1I:734:ARG:NH2	2.50	0.44
24:1J:361:TYR:HB3	24:1J:365:THR:HB	2.00	0.44
24:1K:148:LYS:O	24:1K:150:HIS:ND1	2.43	0.44
25:1O:734:PHE:CD1	25:1O:736:MET:HE2	2.52	0.44
27:1S:269:VAL:O	27:1S:273:VAL:HG23	2.17	0.44
28:1h:18:CYS:HB3	28:1h:21:ARG:HB3	2.00	0.44
28:1h:97:LYS:HD3	28:1h:98:PRO:HD2	1.98	0.44
22:1y:151:LEU:HB2	48:3I:63:SER:OG	2.18	0.44
33:2G:70:VAL:HG13	33:2G:83:ILE:HG21	2.00	0.44
40:2Z:126:ALA:O	40:2Z:130:LEU:HD23	2.18	0.44
44:2v:35:ASP:HA	44:2v:38:ARG:CD	2.48	0.44
44:2v:379:MET:HE3	74:2v:501:ATP:C4	2.52	0.44
44:2w:247:ALA:HB3	49:3Q:481:PRO:HB3	2.00	0.44
47:3D:127:ARG:HG3	47:3D:130:ARG:CZ	2.48	0.44
48:3F:80:ILE:HA	48:3F:83:ARG:HG2	1.99	0.44
49:3P:364:SER:HB3	49:3P:367:GLU:HG2	2.00	0.44
49:3P:518:TYR:C	49:3P:520:ASP:H	2.25	0.44
54:3a:23:MET:HA	54:3a:28:MET:SD	2.58	0.44
60:3r:36:ASN:H	60:3r:37:ARG:NH1	2.16	0.44
61:3w:257:LYS:O	61:3w:260:VAL:HG22	2.17	0.44
59:4O:174:ARG:O	59:4O:178:LEU:HG	2.18	0.44
65:5H:124:VAL:O	65:5H:128:VAL:HG23	2.18	0.44
65:5H:184:MET:O	65:5H:188:ILE:HG12	2.18	0.44
66:5K:99:THR:HA	66:5K:121:VAL:HA	1.99	0.44
67:5P:35:GLN:HG2	67:5P:99:GLU:OE2	2.18	0.44
1:A:189:VAL:O	1:A:193:VAL:HG13	2.17	0.44
1:A:309:ARG:N	1:A:372:THR:OG1	2.42	0.44
2:AA:60:LYS:HE2	2:AA:60:LYS:HB3	1.79	0.44
1:AB:41:ASP:O	1:AB:45:GLU:HG3	2.18	0.44
1:AB:85:PHE:HB2	1:AB:90:PHE:CE1	2.53	0.44
2:AE:207:GLU:HA	2:AE:210:TYR:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:267:MET:HG3	1:AH:374:ILE:HD11	1.98	0.44
2:AI:75:VAL:HG11	2:AI:94:SER:HB2	1.98	0.44
2:AM:219:ILE:HG13	2:AM:222:PRO:HD3	1.99	0.44
2:AM:264:ARG:NH1	3:XF:117:PHE:HB2	2.28	0.44
1:AN:113:ILE:O	1:AN:117:LEU:HD23	2.18	0.44
1:B:274:THR:HG23	1:B:279:GLN:OE1	2.18	0.44
2:BA:205:ASP:OD1	2:BA:303:THR:HA	2.18	0.44
1:BB:22:GLU:HA	1:BB:81:TYR:CD2	2.49	0.44
1:BD:22:GLU:OE2	1:BD:80:PRO:HG2	2.17	0.44
1:BD:178:THR:HG22	1:BD:180:VAL:H	1.82	0.44
1:BF:2:ARG:HA	1:BF:2:ARG:HD2	1.74	0.44
2:BG:419:SER:O	2:BG:423:GLU:OE1	2.36	0.44
2:BI:121:ARG:HD3	2:BI:121:ARG:HA	1.86	0.44
1:BJ:113:ILE:HG13	1:BJ:117:LEU:HD23	1.99	0.44
2:C:124:LYS:HB2	2:C:124:LYS:HE3	1.84	0.44
1:CA:255:VAL:HG12	2:CB:407:TRP:CD2	2.52	0.44
1:CA:260:PHE:HD2	1:CA:263:LEU:HD12	1.83	0.44
1:CA:334:GLN:HE22	1:CA:348:ASN:N	2.16	0.44
2:CB:229:ARG:HD2	2:CB:363:VAL:HG21	2.00	0.44
2:CJ:387:VAL:HG12	2:CJ:390:ARG:NH2	2.32	0.44
2:CL:255:PHE:O	2:CL:259:LEU:HD23	2.18	0.44
2:CL:363:VAL:HG13	2:CL:366:GLY:HA3	1.99	0.44
2:DB:117:LEU:O	2:DB:121:ARG:HG2	2.18	0.44
1:DC:299:MET:HE1	1:DC:367:PHE:CE2	2.53	0.44
2:DF:151:ALA:O	2:DF:155:GLU:HG2	2.18	0.44
1:DG:66:MET:CE	1:DG:151:LEU:HD22	2.46	0.44
1:DG:207:LEU:HB3	1:DG:225:LEU:HD22	1.99	0.44
2:DJ:138:PHE:HE2	2:DJ:235:VAL:HG21	1.83	0.44
2:DJ:346:TRP:CD1	1:DK:391:ARG:HG3	2.53	0.44
1:DK:9:ALA:HB3	1:DK:137:HIS:HB3	2.00	0.44
2:DL:207:GLU:OE2	2:DL:304:LYS:HG2	2.16	0.44
1:DM:405:GLU:HA	1:DM:408:PHE:CD2	2.53	0.44
1:E:345:ILE:HG13	2:EA:398:MET:HE3	1.98	0.44
2:EA:395:PHE:CE2	2:EA:422:ARG:HB2	2.52	0.44
1:EB:5:VAL:HG12	1:EB:130:LEU:HD11	2.00	0.44
1:ED:134:GLN:HG3	1:ED:167:PHE:CE2	2.46	0.44
1:EH:313:ALA:HA	1:EH:369:GLY:HA2	2.00	0.44
1:EL:131:GLN:O	1:EL:163:ILE:HG22	2.18	0.44
1:F:138:SER:HA	1:F:169:VAL:HB	2.00	0.44
1:FB:10:GLY:O	1:FB:14:ASN:HB2	2.17	0.44
2:FC:136:MET:HG2	2:FC:167:LEU:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FC:297:GLU:HG3	2:FC:299:ALA:H	1.83	0.44
1:FF:113:ILE:HG12	1:FF:150:LEU:CD2	2.47	0.44
1:FF:202:ILE:HD11	1:FF:268:MET:HE3	1.99	0.44
2:FG:53:PHE:HB3	2:FG:61:HIS:HB3	1.98	0.44
2:FG:155:GLU:HG3	2:FG:197:HIS:ND1	2.32	0.44
1:FH:323:THR:HG21	2:FI:224:TYR:CD1	2.52	0.44
2:FI:70:LEU:HD21	2:FI:149:LEU:HD22	1.99	0.44
1:FL:113:ILE:HG13	1:FL:117:LEU:CD2	2.47	0.44
1:GD:257:LEU:HB3	1:GD:266:PHE:CE1	2.52	0.44
2:GE:9:ILE:HG22	2:GE:146:GLY:HA2	2.00	0.44
1:GF:314:SER:OG	1:GF:368:ILE:HB	2.17	0.44
1:GH:398:TYR:HD2	1:GH:403:MET:HE1	1.83	0.44
2:GI:88:ASN:HB3	2:GI:91:GLN:HG2	1.99	0.44
2:GI:89:PRO:HD3	2:HI:283:HIS:HD2	1.80	0.44
1:GJ:246:LEU:HD12	1:GJ:246:LEU:HA	1.90	0.44
1:GL:3:GLU:HG2	1:GL:62:ARG:HH12	1.82	0.44
1:H:267:MET:HE2	1:H:299:MET:HE3	1.99	0.44
2:HA:268:VAL:HG21	2:HA:378:ILE:HD11	1.99	0.44
2:HA:297:GLU:HG2	2:HA:298:PRO:HD2	1.99	0.44
2:HA:319:TYR:CB	2:HA:323:VAL:HG21	2.46	0.44
2:HA:319:TYR:CE2	2:HA:328:VAL:HG22	2.52	0.44
1:HB:344:TRP:CE3	1:HB:345:ILE:HG13	2.53	0.44
1:HD:12:CYS:HB2	69:HD:500:GDP:C8	2.53	0.44
1:HD:26:ASP:C	1:HD:359:LYS:HZ1	2.26	0.44
1:HF:270:PHE:O	1:HF:298:ASN:ND2	2.51	0.44
1:HH:323:THR:HG22	2:HI:223:SER:HA	1.99	0.44
2:HI:99:ALA:HA	2:HI:110:ILE:HD11	2.00	0.44
2:HK:269:LEU:HD13	2:HK:301:MET:SD	2.57	0.44
1:I:53:GLU:HB3	1:I:59:TYR:HE1	1.81	0.44
1:I:180:VAL:HG11	1:I:398:TYR:OH	2.17	0.44
2:IA:250:VAL:HA	2:IA:254:GLU:HG3	2.00	0.44
1:ID:249:ASP:OD1	1:ID:252:LYS:HG2	2.18	0.44
2:IG:68:LEU:HG	2:IG:149:LEU:HD21	2.00	0.44
1:IH:224:ASP:OD2	7:0D:151:THR:N	2.37	0.44
2:II:38:SER:HA	2:II:41:CYS:SG	2.58	0.44
2:II:310:GLY:HA3	2:II:383:ALA:HB2	1.99	0.44
2:IK:103:TYR:CD2	2:IK:413:MET:HE1	2.53	0.44
1:IL:256:ASN:HD21	2:IM:101:ASN:HD22	1.64	0.44
2:IM:269:LEU:HD23	2:IM:379:ALA:O	2.17	0.44
2:JB:205:ASP:OD1	2:JB:304:LYS:N	2.44	0.44
2:JF:17:GLY:HA2	2:JF:20:CYS:SG	2.58	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JI:239:CYS:HB3	1:JI:247:ASN:OD1	2.17	0.44
1:JI:317:PHE:CD1	1:JI:365:VAL:HB	2.53	0.44
1:JK:324:LYS:HZ1	2:JL:222:PRO:CD	2.31	0.44
2:JL:205:ASP:OD1	2:JL:303:THR:HA	2.17	0.44
2:JN:227:VAL:O	2:JN:231:ILE:HG12	2.18	0.44
2:JN:265:ILE:HG23	2:JN:432:TYR:CE1	2.53	0.44
1:KC:68:LEU:HD12	1:KC:97:ALA:HB2	2.00	0.44
2:KD:250:VAL:HG11	2:KD:352:LYS:HE3	1.99	0.44
1:KE:68:LEU:HD12	1:KE:97:ALA:HB2	2.00	0.44
1:KE:326:VAL:HG21	1:KE:353:ILE:HD11	2.00	0.44
2:KF:166:LYS:N	2:KF:199:ASP:OD2	2.48	0.44
2:KH:23:LEU:HD11	2:KH:233:GLN:OE1	2.17	0.44
2:KH:147:SER:HB2	2:KH:190:SER:OG	2.18	0.44
1:KK:232:VAL:HG11	1:KK:268:MET:HE1	1.98	0.44
2:KL:335:ILE:HG21	2:KL:351:PHE:HZ	1.83	0.44
1:LA:27:GLU:CD	1:LA:241:ARG:HH12	2.25	0.44
1:LC:66:MET:SD	1:LC:151:LEU:HD22	2.57	0.44
2:LD:195:LEU:HD21	2:LD:264:ARG:HH12	1.83	0.44
1:LE:425:TYR:CE1	13:0Y:143:VAL:HG12	2.53	0.44
1:LG:154:LYS:HD2	13:0Z:80:VAL:HG23	1.99	0.44
1:LI:156:ARG:HH22	1:LI:197:ASP:CG	2.25	0.44
1:LI:403:MET:HE3	1:LI:408:PHE:CE1	2.53	0.44
2:LJ:245:ASP:HB2	24:1J:32:TYR:HB3	2.00	0.44
2:LN:20:CYS:SG	2:LN:235:VAL:HG11	2.58	0.44
1:LO:14:ASN:HD21	1:LO:67:ASP:HB2	1.83	0.44
1:LO:170:ILE:N	1:LO:202:ILE:O	2.51	0.44
1:LO:285:SER:O	1:LO:289:LEU:HD23	2.18	0.44
1:MB:100:ASN:HB3	1:MB:103:LYS:HB3	2.00	0.44
1:MB:335:ASN:HA	13:0Y:70:ARG:NH2	2.32	0.44
1:MD:313:ALA:HB1	1:MD:367:PHE:CE1	2.52	0.44
2:ME:422:ARG:NH1	2:ME:426:ALA:HB2	2.33	0.44
1:MF:11:GLN:O	1:MF:15:GLN:OE1	2.36	0.44
1:MF:156:ARG:HD3	1:MF:195:ASN:O	2.18	0.44
1:MH:3:GLU:CD	1:MH:130:LEU:HA	2.42	0.44
1:MH:267:MET:HB2	1:MH:301:GLN:HE21	1.83	0.44
1:MH:323:THR:HA	1:MH:326:VAL:HG12	1.99	0.44
2:MI:201:ALA:O	2:MI:268:VAL:HG22	2.18	0.44
2:MI:204:LEU:HD13	2:MI:231:ILE:HD13	1.98	0.44
1:MJ:209:ASP:OD1	1:MJ:213:ARG:NH2	2.51	0.44
1:ML:134:GLN:HA	1:ML:165:MET:HB3	1.99	0.44
2:MM:96:LYS:HA	2:MM:96:LYS:HD2	1.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MM:384:ILE:HG22	2:MM:388:PHE:CD2	2.52	0.44
1:MN:168:SER:O	1:MN:201:CYS:HA	2.18	0.44
1:MN:316:LEU:HB2	1:MN:366:THR:OG1	2.17	0.44
2:NA:105:ARG:HG3	2:NA:109:THR:OG1	2.17	0.44
2:NA:313:MET:HG2	2:NA:380:ASN:O	2.17	0.44
1:ND:344:TRP:HZ3	2:NE:403:ALA:HB2	1.83	0.44
2:NG:264:ARG:HG3	2:NG:264:ARG:NH1	2.32	0.44
1:NH:13:GLY:HA2	1:NH:16:ILE:HG22	1.99	0.44
1:NH:42:LEU:HD22	1:NH:356:ILE:HD11	2.00	0.44
1:NH:183:TYR:OH	1:NH:393:ALA:O	2.27	0.44
2:NK:195:LEU:HD21	2:NK:264:ARG:HE	1.82	0.44
2:NM:316:CYS:SG	2:NM:378:ILE:HG22	2.58	0.44
1:O:330:MET:HA	1:O:333:VAL:HG23	1.98	0.44
2:OA:265:ILE:HG23	2:OA:432:TYR:CE1	2.52	0.44
2:OA:346:TRP:CZ3	2:OA:347:CYS:HB2	2.52	0.44
2:OA:405:VAL:HA	2:OA:408:TYR:HD2	1.82	0.44
1:OB:5:VAL:HG12	1:OB:130:LEU:HD11	1.99	0.44
1:OB:148:GLY:O	1:OB:152:ILE:HG12	2.17	0.44
2:OC:151:ALA:O	2:OC:155:GLU:OE1	2.35	0.44
2:OC:223:SER:OG	2:OC:224:TYR:N	2.50	0.44
2:OC:279:GLU:HA	2:OC:282:TYR:HE1	1.82	0.44
1:OD:107:THR:OG1	1:OD:401:GLU:OE1	2.36	0.44
2:OG:9:ILE:HB	2:OG:139:HIS:HB3	2.00	0.44
2:OG:127:ASP:OD1	2:OG:128:ASN:N	2.51	0.44
2:OI:115:VAL:HG21	2:OI:152:LEU:HG	1.98	0.44
2:OI:261:PRO:HB2	2:OI:262:TYR:CD2	2.53	0.44
1:OJ:68:LEU:HD22	1:OJ:97:ALA:HB2	2.00	0.44
1:OJ:304:ASP:CG	1:OJ:306:ARG:HH11	2.26	0.44
1:OL:200:MET:HG3	1:OL:266:PHE:HB2	1.99	0.44
2:OM:142:GLY:HA3	2:OM:183:GLU:HG3	1.99	0.44
2:OM:234:VAL:O	2:OM:238:LEU:HD23	2.18	0.44
2:PE:17:GLY:HA2	2:PE:20:CYS:SG	2.58	0.44
2:PG:44:VAL:HG13	2:PG:45:GLU:OE1	2.18	0.44
2:PG:212:LEU:HD13	2:PG:300:GLY:HA2	2.00	0.44
2:PI:230:LEU:HD23	2:PI:230:LEU:HA	1.86	0.44
2:PK:258:ASN:HD21	1:PL:178:THR:HG23	1.82	0.44
2:PK:388:PHE:HB3	2:PK:429:GLU:OE2	2.17	0.44
1:PL:173:PRO:HD2	1:PL:380:ARG:NH1	2.33	0.44
2:PM:188:VAL:HG21	2:PM:395:PHE:CD1	2.52	0.44
1:QA:221:THR:HG23	1:QA:223:GLY:H	1.82	0.44
2:QB:79:ARG:O	2:QB:84:ARG:HG3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QB:142:GLY:CA	2:QB:183:GLU:HG3	2.48	0.44
2:QB:336:LYS:HD3	2:QB:351:PHE:HE2	1.83	0.44
1:QC:2:ARG:HE	1:QC:2:ARG:HA	1.82	0.44
2:QD:155:GLU:HG2	2:QD:197:HIS:CD2	2.52	0.44
1:QE:139:LEU:HA	1:QE:145:SER:HB3	1.99	0.44
1:QE:379:ARG:O	1:QE:382:GLY:N	2.51	0.44
1:QG:372:THR:O	1:QG:375:GLN:HG3	2.17	0.44
2:QH:243:ARG:HH21	2:QH:244:PHE:HE2	1.65	0.44
2:QJ:116:ASP:OD1	2:QJ:116:ASP:N	2.50	0.44
1:QK:65:LEU:HB2	1:QK:90:PHE:HA	1.99	0.44
2:R:119:LEU:O	2:R:119:LEU:HD23	2.17	0.44
2:RB:387:VAL:O	2:RB:391:ILE:HG12	2.18	0.44
1:RC:41:ASP:OD2	41:2b:148:ASN:HA	2.17	0.44
1:RC:405:GLU:O	1:RC:409:THR:HG23	2.18	0.44
2:RD:139:HIS:O	2:RD:170:THR:HA	2.18	0.44
2:RD:205:ASP:OD1	2:RD:303:THR:HA	2.18	0.44
2:RF:250:VAL:HG23	2:RF:254:GLU:CG	2.47	0.44
1:RI:101:TRP:CE3	1:RI:187:LEU:HD23	2.53	0.44
2:RJ:326:LYS:HB2	1:RK:212:PHE:HZ	1.83	0.44
2:SA:110:ILE:O	2:SA:113:GLU:HG2	2.18	0.44
2:SA:137:VAL:HG11	2:SA:154:LEU:HD21	1.98	0.44
2:SA:172:TYR:CD2	2:SA:203:MET:HG3	2.52	0.44
1:SB:175:VAL:HG11	1:SB:204:ASN:HB2	2.00	0.44
1:SB:384:GLN:O	1:SB:388:MET:HG3	2.18	0.44
2:SC:60:LYS:HE2	2:TC:283:HIS:CD2	2.53	0.44
1:SD:76:VAL:HG13	1:SD:90:PHE:HE2	1.82	0.44
2:SE:108:TYR:CE2	2:SE:413:MET:HG3	2.53	0.44
2:SE:249:ASN:HB2	1:SF:11:GLN:HE22	1.83	0.44
1:SF:213:ARG:HH12	1:SF:297:LYS:HD3	1.83	0.44
1:SJ:322:SER:HB2	2:SK:222:PRO:O	2.18	0.44
1:T:255:VAL:HG11	2:TA:100:ALA:O	2.17	0.44
2:TC:2:ARG:HA	2:TC:133:GLN:NE2	2.29	0.44
1:TF:8:GLN:HG3	1:TF:14:ASN:HD22	1.82	0.44
1:TJ:73:MET:CE	1:TJ:92:PHE:HB3	2.48	0.44
1:TL:18:SER:O	1:TL:22:GLU:HG3	2.17	0.44
1:TL:407:GLU:O	1:TL:410:GLU:HG3	2.18	0.44
2:UC:67:PHE:HB2	2:UC:92:LEU:HD12	1.99	0.44
1:UD:173:PRO:HD2	1:UD:380:ARG:CZ	2.48	0.44
2:UE:151:ALA:O	2:UE:155:GLU:OE1	2.36	0.44
2:UE:331:ALA:O	2:UE:335:ILE:HG12	2.17	0.44
2:UI:251:ASP:H	2:UI:254:GLU:HG3	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:UK:70:LEU:HD22	2:UK:110:ILE:HG22	2.00	0.44
2:VA:205:ASP:OD1	2:VA:303:THR:HA	2.17	0.44
1:VB:156:ARG:N	1:VB:164:MET:HE1	2.33	0.44
2:VC:205:ASP:OD1	2:VC:303:THR:HA	2.18	0.44
2:VG:201:ALA:O	2:VG:268:VAL:HG12	2.17	0.44
2:VK:70:LEU:HB3	2:VK:97:GLU:O	2.17	0.44
2:VK:271:SER:HB3	2:VK:301:MET:HG3	1.99	0.44
1:VL:186:THR:HG23	1:VL:415:MET:HE2	1.99	0.44
1:VL:267:MET:HB2	1:VL:301:GLN:HB3	1.99	0.44
2:WC:304:LYS:HA	2:WC:304:LYS:HD2	1.82	0.44
1:WD:35:THR:HB	8:0F:25:ARG:NH2	2.28	0.44
1:WD:347:ASN:OD1	2:WE:178:SER:O	2.35	0.44
1:WF:310:TYR:HA	1:WF:371:ASN:HA	1.99	0.44
2:WI:138:PHE:HE2	2:WI:235:VAL:HG21	1.82	0.44
1:WJ:344:TRP:HA	2:WK:397:LEU:HG	1.99	0.44
3:XB:30:ARG:HB2	3:XB:56:THR:HB	1.99	0.44
3:XC:92:THR:HB	3:XC:153:ARG:HB3	1.99	0.44
6:0:42:GLN:NE2	6:0:136:THR:HG21	2.32	0.44
7:0D:215:LYS:HD2	18:0p:296:ARG:CD	2.48	0.44
8:0H:459:LEU:O	8:0H:463:GLU:OE1	2.36	0.44
9:0L:287:VAL:HG13	9:0L:299:VAL:HG13	2.00	0.44
9:0L:492:VAL:HB	9:0L:502:ASN:OD1	2.17	0.44
9:0M:422:LYS:HE2	9:0M:422:LYS:HA	2.00	0.44
10:0S:294:SER:O	10:0S:298:GLU:OE1	2.36	0.44
12:0W:254:PRO:O	18:0p:277:ARG:HD3	2.17	0.44
16:0l:690:LEU:O	16:0l:692:LEU:N	2.46	0.44
17:0m:11:LEU:HA	17:0m:14:VAL:HG12	2.00	0.44
20:0t:174:GLN:OE1	20:0t:220:THR:HG21	2.18	0.44
21:0v:98:THR:HG23	21:0v:101:ALA:H	1.83	0.44
23:1A:84:ARG:HD2	54:3a:23:MET:HE3	1.98	0.44
23:1B:336:MET:HE1	44:2w:48:TRP:CE3	2.53	0.44
23:1E:134:ASP:HA	45:2z:16:TYR:CE2	2.53	0.44
23:1E:213:GLU:O	23:1E:217:ARG:HG3	2.18	0.44
24:1H:684:ALA:HB2	24:1H:693:GLU:HG2	2.00	0.44
26:1Q:421:TYR:CE1	26:1Q:517:MET:HE3	2.53	0.44
26:1Q:427:ARG:HG3	26:1Q:447:CYS:SG	2.57	0.44
27:1S:271:HIS:HB3	27:1S:358:ARG:HH22	1.82	0.44
27:1S:311:ASP:OD1	27:1S:335:TRP:NE1	2.50	0.44
27:1S:718:LYS:O	27:1S:722:LEU:HD13	2.17	0.44
27:1T:781:VAL:HB	27:1T:831:ALA:HB1	2.00	0.44
28:1h:20:CYS:SG	28:1h:30:CYS:HB2	2.57	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:2C:11:SER:OG	32:2C:12:THR:N	2.50	0.44
33:2F:188:LEU:HD12	33:2F:211:TYR:HD2	1.82	0.44
33:2G:159:PRO:HB2	33:2G:240:LEU:HB3	2.00	0.44
35:2N:230:TRP:CH2	35:2N:232:PRO:HG3	2.53	0.44
35:2O:26:TRP:O	51:X1:196:ARG:NH1	2.45	0.44
37:2S:132:SER:O	37:2S:194:SER:OG	2.34	0.44
41:2e:476:MET:O	41:2e:480:THR:HG23	2.18	0.44
42:2r:331:TRP:H	42:2r:331:TRP:CD1	2.36	0.44
43:2t:175:GLU:OE2	43:2t:307:THR:OG1	2.33	0.44
47:3D:9:GLU:HB2	47:3D:27:TYR:HB2	1.99	0.44
47:3D:387:HIS:HB2	47:3D:421:LEU:HD22	2.00	0.44
48:3G:107:VAL:HG12	48:3G:108:LEU:N	2.33	0.44
57:3h:16:SER:HB2	57:3h:17:PRO:HD3	1.99	0.44
65:5G:155:SER:O	65:5G:159:ILE:HG12	2.18	0.44
1:A:68:LEU:HD12	1:A:97:ALA:HB2	1.99	0.44
1:A:242:PHE:HB2	1:A:354:CYS:SG	2.57	0.44
2:AA:169:TYR:HA	2:AA:202:THR:HB	1.99	0.44
1:AB:309:ARG:HH22	1:AB:343:GLU:CD	2.26	0.44
2:AC:241:SER:OG	2:AC:250:VAL:N	2.36	0.44
1:AD:246:LEU:HD11	2:AE:179:THR:HG21	2.00	0.44
2:AE:80:THR:O	2:AE:84:ARG:NH2	2.51	0.44
2:AE:140:ALA:HB3	71:AE:501:GTP:H5'	2.00	0.44
1:AF:347:ASN:HD22	2:AG:178:SER:HG	1.63	0.44
1:AH:20:PHE:CE1	1:AH:233:MET:HB3	2.53	0.44
1:AH:86:ARG:HG3	1:BH:281:TYR:HB3	2.00	0.44
1:AJ:78:ALA:O	24:1I:147:LEU:HA	2.18	0.44
1:AJ:240:LEU:CD1	1:AJ:249:ASP:HA	2.46	0.44
2:AK:204:LEU:HD13	2:AK:231:ILE:HD12	2.00	0.44
2:AK:331:ALA:O	2:AK:335:ILE:HG12	2.18	0.44
1:AL:255:VAL:HG23	2:AM:407:TRP:CG	2.53	0.44
1:AN:200:MET:HE2	1:AN:200:MET:HB3	1.90	0.44
1:B:66:MET:HE1	1:B:147:MET:HG2	1.99	0.44
2:BA:210:TYR:HE1	2:BA:227:VAL:HG11	1.83	0.44
1:BB:324:LYS:NZ	2:BC:222:PRO:HD2	2.26	0.44
2:BC:392:ASP:OD1	2:BC:393:HIS:N	2.50	0.44
1:BD:143:THR:O	1:BD:147:MET:HB3	2.18	0.44
2:BE:270:THR:HG23	2:BE:302:LEU:HB2	1.99	0.44
2:BG:313:MET:HG3	2:BG:344:VAL:HG21	1.98	0.44
1:BJ:165:MET:HE1	1:BJ:236:VAL:HG11	2.00	0.44
1:BJ:218:THR:OG1	24:1I:137:ASP:O	2.34	0.44
2:BK:33:ASP:OD1	2:BK:34:GLY:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BM:6:CYS:HB2	2:BM:65:CYS:HB3	2.00	0.44
2:C:195:LEU:HD12	2:C:428:LEU:HD22	2.00	0.44
1:CA:67:ASP:O	1:CA:92:PHE:HA	2.18	0.44
1:CA:77:ARG:HD3	1:CA:90:PHE:CE2	2.53	0.44
2:CB:209:ILE:HD13	2:CB:227:VAL:HG13	2.00	0.44
1:CE:122:LYS:HA	1:CE:122:LYS:HD3	1.68	0.44
2:CH:234:VAL:HG13	2:CH:376:CYS:SG	2.57	0.44
2:CH:255:PHE:HB2	2:CH:259:LEU:HD23	2.00	0.44
1:CK:91:ILE:CD1	1:CK:116:VAL:HG22	2.47	0.44
1:CK:272:PRO:HG3	1:CK:284:LEU:HD11	1.99	0.44
1:CK:337:ASN:O	1:CK:340:TYR:HB2	2.18	0.44
1:CM:32:PRO:HG3	1:CM:81:TYR:CE1	2.53	0.44
2:D:310:GLY:HA3	2:D:383:ALA:HB2	2.00	0.44
1:DA:61:PRO:HD3	1:DA:84:LEU:HG	2.00	0.44
2:DD:145:THR:OG1	71:DD:501:GTP:O1G	2.27	0.44
1:DE:133:PHE:CD2	1:DE:155:LEU:HD13	2.53	0.44
2:DF:324:VAL:HG13	2:DF:327:ASP:H	1.83	0.44
1:DI:303:ALA:HB1	1:DI:373:CYS:SG	2.57	0.44
1:DK:263:LEU:HD21	1:DK:421:GLU:HG3	1.99	0.44
1:DK:272:PRO:HD3	1:DK:364:SER:HA	2.00	0.44
2:DL:133:GLN:O	2:DL:165:SER:OG	2.36	0.44
1:DM:62:ARG:HG3	1:DM:123:GLU:OE1	2.18	0.44
1:DM:272:PRO:HD3	1:DM:364:SER:HA	2.00	0.44
2:EA:241:SER:OG	2:EA:250:VAL:O	2.21	0.44
1:EJ:307:HIS:O	1:EJ:426:GLN:NE2	2.51	0.44
2:EK:296:PHE:CE2	2:EK:377:MET:HE1	2.53	0.44
1:EL:202:ILE:HG23	1:EL:207:LEU:HD21	2.00	0.44
1:FB:163:ILE:HD11	1:FB:251:ARG:HB2	1.99	0.44
1:FB:167:PHE:CD2	1:FB:233:MET:HE2	2.53	0.44
2:FC:3:GLU:HA	2:FC:51:THR:HA	2.00	0.44
1:FH:287:ALA:HA	1:FH:290:THR:HG22	2.00	0.44
2:FI:188:VAL:O	2:FI:191:THR:HG22	2.18	0.44
2:FI:188:VAL:HG21	2:FI:395:PHE:HB2	1.99	0.44
1:FJ:165:MET:HE1	1:FJ:198:GLU:CD	2.43	0.44
2:FK:72:PRO:O	2:FK:76:ASP:HB2	2.17	0.44
2:FK:269:LEU:HD22	2:FK:303:THR:HB	2.00	0.44
1:FL:192:LEU:O	1:FL:196:SER:HB3	2.17	0.44
1:FL:371:ASN:OD1	1:FL:372:THR:N	2.51	0.44
1:G:323:THR:HG21	2:GA:224:TYR:CD2	2.53	0.44
1:GB:8:GLN:NE2	1:GB:65:LEU:HG	2.33	0.44
1:GB:18:SER:O	1:GB:22:GLU:HG2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GB:73:MET:HE3	1:GB:92:PHE:CB	2.48	0.44
2:GC:311:LYS:HE3	2:GC:344:VAL:HG12	2.00	0.44
2:GG:252:LEU:HD13	2:GG:255:PHE:CZ	2.53	0.44
2:GG:269:LEU:HA	2:GG:303:THR:HG21	1.99	0.44
2:GI:325:PRO:HA	2:GI:328:VAL:HG22	1.99	0.44
1:GJ:257:LEU:HD21	1:GJ:314:SER:HB2	2.00	0.44
1:GJ:385:PHE:CE2	1:GJ:412:GLU:HB3	2.53	0.44
1:H:255:VAL:HG21	2:HA:105:ARG:HH12	1.83	0.44
1:H:295:ASP:OD2	1:H:297:LYS:NZ	2.42	0.44
2:HA:282:TYR:CE2	17:0m:93:ARG:HB3	2.53	0.44
1:HB:344:TRP:CD1	2:HC:401:LYS:HZ1	2.36	0.44
2:HE:396:ASP:OD1	2:HE:397:LEU:N	2.51	0.44
1:HF:234:SER:O	1:HF:241:ARG:NH2	2.45	0.44
1:HF:345:ILE:O	1:HF:348:ASN:ND2	2.50	0.44
2:HI:50:ASN:O	2:HI:50:ASN:ND2	2.50	0.44
2:HI:346:TRP:CD1	1:HJ:391:ARG:HG3	2.52	0.44
1:HJ:267:MET:C	1:HJ:268:MET:HE2	2.43	0.44
1:HJ:324:LYS:HG3	2:HK:222:PRO:HG2	2.00	0.44
2:HK:138:PHE:HE2	2:HK:235:VAL:HG21	1.83	0.44
2:HK:212:LEU:HD21	2:HK:275:VAL:HG11	2.00	0.44
2:HK:251:ASP:H	2:HK:254:GLU:HB2	1.82	0.44
2:HM:328:VAL:HG21	2:HM:355:ILE:HD11	2.00	0.44
2:HM:431:ASP:OD1	2:HM:432:TYR:N	2.50	0.44
1:IB:135:LEU:HD23	1:IB:152:ILE:HD11	2.00	0.44
2:IC:156:ARG:HA	2:IC:159:VAL:HG12	2.00	0.44
2:IE:189:LEU:HD23	2:IE:413:MET:HE1	1.99	0.44
1:IF:257:LEU:HD21	1:IF:314:SER:HB2	1.99	0.44
1:IH:263:LEU:HD21	1:IH:421:GLU:HG3	1.99	0.44
1:IH:344:TRP:HZ3	2:II:403:ALA:HB2	1.83	0.44
1:IJ:213:ARG:HH11	1:IJ:297:LYS:HB2	1.83	0.44
1:IJ:324:LYS:HD3	2:IK:210:TYR:HB3	2.00	0.44
1:IL:299:MET:HE1	1:IL:367:PHE:CE2	2.52	0.44
1:JA:66:MET:HE1	1:JA:151:LEU:HD13	1.99	0.44
2:JB:245:ASP:N	2:JB:245:ASP:OD1	2.49	0.44
2:JD:97:GLU:CD	2:JD:105:ARG:HH22	2.23	0.44
1:JE:187:LEU:HD22	1:JE:403:MET:HE1	2.00	0.44
1:JG:139:LEU:HG	1:JG:168:SER:HB2	1.99	0.44
1:JI:347:ASN:ND2	1:JI:349:ILE:H	2.16	0.44
2:JJ:326:LYS:HZ3	1:JK:219:THR:HA	1.82	0.44
2:JL:9:ILE:HB	2:JL:139:HIS:HB3	2.00	0.44
1:JM:165:MET:HE1	1:JM:250:LEU:HD22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JN:71:GLU:HB2	2:JN:98:ASP:OD1	2.17	0.44
2:K:84:ARG:HH12	2:K:85:GLN:HE22	1.64	0.44
2:K:352:LYS:HE2	2:K:352:LYS:HA	2.00	0.44
1:KA:221:THR:H	1:KA:224:ASP:HB2	1.82	0.44
2:KB:253:THR:HA	2:KB:256:GLN:HB3	2.00	0.44
1:KC:210:ILE:HG12	1:KC:297:LYS:O	2.18	0.44
1:KC:252:LYS:HG3	2:KD:101:ASN:HB2	2.00	0.44
1:KC:347:ASN:O	2:KD:181:VAL:HG12	2.18	0.44
2:KD:269:LEU:HD11	2:KD:305:CYS:HB2	2.00	0.44
2:KF:259:LEU:HD21	2:KF:268:VAL:HG11	2.00	0.44
2:KJ:147:SER:HB2	2:KJ:190:SER:HB2	2.00	0.44
1:KM:145:SER:HB2	1:KM:188:SER:OG	2.17	0.44
1:LA:161:ASP:OD1	1:LA:161:ASP:N	2.47	0.44
1:LE:406:MET:HE2	32:2B:142:TYR:HE2	1.79	0.44
2:LJ:50:ASN:ND2	24:1J:36:GLN:OE1	2.35	0.44
2:LJ:96:LYS:HA	2:LJ:96:LYS:HD2	1.84	0.44
2:LJ:431:ASP:OD1	22:0z:143:GLY:CA	2.62	0.44
2:LL:70:LEU:HD23	2:LL:145:THR:HG23	2.00	0.44
1:LM:290:THR:HG21	1:LM:329:GLN:HB3	2.00	0.44
2:LN:110:ILE:HA	2:LN:113:GLU:OE2	2.18	0.44
1:M:292:GLN:HG2	1:M:298:ASN:HD22	1.82	0.44
2:MA:431:ASP:HB3	33:2F:146:HIS:CE1	2.53	0.44
1:MB:170:ILE:CG1	1:MB:201:CYS:HB3	2.48	0.44
1:MD:272:PRO:HD3	1:MD:364:SER:HA	1.99	0.44
1:MF:12:CYS:SG	1:MF:138:SER:HB2	2.58	0.44
2:MG:274:PRO:HG3	2:MG:286:LEU:HD12	1.99	0.44
2:MI:248:LEU:HB2	2:MI:355:ILE:H	1.82	0.44
2:MI:433:GLU:O	33:2H:156:THR:OG1	2.34	0.44
1:MJ:163:ILE:HG21	1:MJ:250:LEU:HB3	1.98	0.44
2:MK:209:ILE:HG21	2:MK:227:VAL:HA	2.00	0.44
2:MM:430:LYS:NZ	33:2I:146:HIS:CD2	2.86	0.44
1:MN:226:ASN:OD1	69:MN:500:GDP:N1	2.43	0.44
1:NB:165:MET:HE3	1:NB:167:PHE:CE1	2.53	0.44
2:NC:275:VAL:O	2:NC:275:VAL:HG13	2.18	0.44
1:ND:165:MET:HE2	1:ND:167:PHE:CE1	2.53	0.44
2:NE:69:ASP:OD1	2:NE:71:GLU:HG3	2.17	0.44
1:NF:337:ASN:HB3	1:NF:340:TYR:HB2	2.00	0.44
2:NG:19:ALA:O	2:NG:22:GLU:HB3	2.17	0.44
2:NG:139:HIS:CE1	2:NG:170:THR:HG22	2.53	0.44
2:NI:140:ALA:HB2	2:NI:171:VAL:HB	2.00	0.44
1:NJ:213:ARG:HH22	1:NJ:297:LYS:CB	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NJ:389:PHE:HZ	1:NJ:405:GLU:HG3	1.83	0.44
1:NL:267:MET:HE1	1:NL:305:PRO:HB3	2.00	0.44
1:NL:375:GLN:OE1	1:NL:379:ARG:NH2	2.50	0.44
2:NM:70:LEU:HD12	2:NM:110:ILE:HG22	2.00	0.44
2:NM:209:ILE:HD13	2:NM:227:VAL:HG13	1.99	0.44
1:O:289:LEU:O	1:O:293:MET:HG2	2.18	0.44
2:OA:392:ASP:OD2	2:OA:422:ARG:NH1	2.50	0.44
1:OB:350:LYS:HA	2:OC:179:THR:O	2.17	0.44
2:OC:274:PRO:HG2	2:OC:371:VAL:HG11	2.00	0.44
1:OD:26:ASP:OD2	1:OD:359:LYS:HG3	2.17	0.44
1:OD:43:GLN:HG3	28:1g:217:PHE:CE2	2.52	0.44
2:OE:394:LYS:HE3	2:OE:398:MET:HE3	1.99	0.44
1:OH:19:LYS:HG3	1:OH:226:ASN:HB2	2.00	0.44
1:OH:66:MET:HE1	1:OH:151:LEU:HD22	1.99	0.44
1:OH:290:THR:CB	1:OH:329:GLN:HE21	2.31	0.44
1:OH:323:THR:HG21	2:OI:224:TYR:CZ	2.53	0.44
1:OJ:112:LEU:O	1:OJ:112:LEU:HD23	2.17	0.44
2:PC:17:GLY:HA2	2:PC:20:CYS:SG	2.58	0.44
2:PE:326:LYS:HD2	1:PF:212:PHE:HE1	1.83	0.44
2:PG:56:THR:CG2	2:PG:60:LYS:HB2	2.48	0.44
2:PI:93:VAL:HA	59:4a:295:THR:HG22	2.00	0.44
1:PJ:386:THR:HG22	1:PJ:412:GLU:OE2	2.17	0.44
1:PL:19:LYS:HA	1:PL:22:GLU:CG	2.48	0.44
2:PM:88:ASN:ND2	2:PM:90:GLU:OE2	2.51	0.44
2:PM:339:ARG:NH2	2:PM:340:THR:HA	2.32	0.44
2:Q:89:PRO:HG2	2:R:280:LYS:HD2	2.00	0.44
1:QA:276:ARG:HH21	41:2h:342:ASN:CA	2.22	0.44
2:QB:336:LYS:HD3	2:QB:351:PHE:CE2	2.53	0.44
2:QB:382:THR:HG22	2:QB:435:VAL:HG23	1.99	0.44
2:QF:91:GLN:H	2:QF:121:ARG:HD2	1.83	0.44
2:QF:392:ASP:HB2	2:QF:422:ARG:NE	2.33	0.44
2:QH:1:MET:HG3	2:QH:2:ARG:HD3	2.00	0.44
2:QH:2:ARG:HG3	2:QH:133:GLN:NE2	2.33	0.44
2:QH:11:GLN:HE21	2:QH:15:GLN:NE2	2.16	0.44
2:QH:64:ARG:NH1	2:QH:129:CYS:SG	2.91	0.44
1:QI:258:VAL:HB	2:QJ:407:TRP:HZ2	1.82	0.44
2:QJ:8:HIS:HD1	2:QJ:138:PHE:HB2	1.82	0.44
1:QK:46:ARG:HG3	1:QK:49:VAL:HG23	2.00	0.44
1:QK:181:GLU:HB2	1:QK:182:PRO:HD3	2.00	0.44
1:QK:289:LEU:O	1:QK:293:MET:HG3	2.17	0.44
2:QL:317:LEU:HD23	2:QL:377:MET:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RA:152:ILE:CD1	1:RA:164:MET:HE2	2.48	0.44
2:RB:326:LYS:NZ	1:RC:220:PRO:HG2	2.33	0.44
1:RC:327:ASP:OD2	2:RD:177:VAL:HG11	2.18	0.44
1:RE:165:MET:HE3	1:RE:250:LEU:HD22	2.00	0.44
1:RE:417:ASP:O	1:RE:421:GLU:OE1	2.35	0.44
2:RF:26:LEU:HD11	28:1Y:50:LYS:HB2	1.99	0.44
2:RJ:104:ALA:HB2	2:RJ:413:MET:SD	2.58	0.44
2:RJ:257:THR:HG21	1:RK:98:GLY:O	2.18	0.44
1:RK:278:SER:O	1:RK:278:SER:OG	2.31	0.44
1:S:174:ARG:NE	1:S:205:GLU:OE2	2.43	0.44
1:SB:9:ALA:HA	1:SB:66:MET:HB3	1.99	0.44
2:SC:7:ILE:HG22	2:SC:9:ILE:HD11	1.99	0.44
1:SD:316:LEU:HB2	1:SD:366:THR:CG2	2.48	0.44
2:SE:223:SER:OG	2:SE:224:TYR:N	2.51	0.44
1:SF:247:ASN:O	1:SF:252:LYS:NZ	2.40	0.44
2:SK:250:VAL:CG1	2:SK:318:MET:HE1	2.48	0.44
2:SK:390:ARG:O	2:SK:394:LYS:HG2	2.18	0.44
2:SK:395:PHE:CD2	2:SK:422:ARG:HD3	2.53	0.44
1:T:286:VAL:HG12	1:T:329:GLN:HG3	2.00	0.44
1:TD:415:MET:HE2	1:TD:415:MET:HA	1.99	0.44
2:TE:329:ASN:ND2	1:TF:175:VAL:HG22	2.33	0.44
1:TF:313:ALA:HB1	1:TF:367:PHE:CE1	2.49	0.44
2:TG:319:TYR:HB3	2:TG:323:VAL:HG21	1.99	0.44
1:TH:62:ARG:HG3	1:TH:123:GLU:OE1	2.18	0.44
1:TH:165:MET:HG3	1:TH:198:GLU:HG3	2.00	0.44
2:TI:173:PRO:HB3	2:TI:183:GLU:HG2	2.00	0.44
2:TI:252:LEU:HA	2:TI:255:PHE:CE1	2.53	0.44
2:TI:273:ALA:HB3	2:TI:295:VAL:HG23	2.00	0.44
1:TJ:65:LEU:HD22	1:TJ:90:PHE:CE2	2.53	0.44
1:TJ:273:LEU:H	1:TJ:292:GLN:HE22	1.63	0.44
1:TJ:372:THR:HA	1:TJ:422:TYR:HD1	1.82	0.44
1:TL:8:GLN:CD	1:TL:17:GLY:HA3	2.43	0.44
1:TL:275:SER:HB2	1:TL:278:SER:HB2	2.00	0.44
1:U:286:VAL:O	1:U:290:THR:HG23	2.18	0.44
1:U:309:ARG:NH2	1:U:343:GLU:HG3	2.33	0.44
2:UA:141:VAL:HB	2:UA:187:CYS:HA	1.99	0.44
2:UC:332:ILE:HG23	2:UC:351:PHE:CD2	2.53	0.44
2:UG:205:ASP:OD1	2:UG:205:ASP:N	2.51	0.44
1:UH:403:MET:HE2	1:UH:403:MET:HB3	1.84	0.44
1:UJ:91:ILE:HD11	1:UJ:119:VAL:HG11	2.00	0.44
2:UK:371:VAL:HG22	2:UK:373:ARG:H	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:396:HIS:HA	1:V:399:THR:OG1	2.18	0.44
2:VE:309:HIS:HB2	2:VE:386:GLU:OE2	2.18	0.44
1:VF:249:ASP:O	1:VF:253:LEU:HG	2.18	0.44
1:VF:344:TRP:CD1	1:VF:344:TRP:H	2.35	0.44
2:VG:173:PRO:HG3	2:VG:183:GLU:HG2	2.00	0.44
2:VG:178:SER:HB2	2:VG:183:GLU:OE1	2.18	0.44
1:VH:210:ILE:O	1:VH:214:THR:HB	2.18	0.44
1:W:156:ARG:HH21	1:W:164:MET:HG2	1.82	0.44
1:W:187:LEU:HD11	1:W:408:PHE:CE1	2.53	0.44
2:WC:160:ASP:OD1	2:WC:161:TYR:N	2.51	0.44
1:WD:350:LYS:HA	2:WE:179:THR:O	2.18	0.44
1:WH:89:ASN:ND2	1:WH:123:GLU:OE2	2.40	0.44
2:WI:43:GLY:O	4:XQ:15:ARG:NH1	2.51	0.44
2:WI:125:LEU:HG	4:XQ:31:PHE:CZ	2.52	0.44
2:WK:156:ARG:HA	2:WK:159:VAL:HG12	2.00	0.44
3:XA:83:MET:HE3	3:XA:83:MET:HB3	1.76	0.44
4:XM:233:GLY:HA3	4:XM:287:HIS:O	2.18	0.44
4:XO:122:GLU:HA	4:XO:125:ARG:HE	1.83	0.44
4:XR:115:LYS:HB2	4:XR:211:HIS:CD2	2.52	0.44
4:XR:115:LYS:HB2	4:XR:211:HIS:HD2	1.82	0.44
6:0A:26:MET:HG2	6:0A:27:ASN:N	2.31	0.44
6:0:159:ASN:HD21	33:2F:287:ARG:H	1.66	0.44
7:0C:269:THR:HG23	7:0C:271:ARG:HB2	1.98	0.44
8:0F:101:ALA:HB1	8:0F:104:ILE:HB	2.00	0.44
8:0I:213:LEU:HA	8:0I:216:HIS:CD2	2.53	0.44
9:0L:36:LEU:HD22	9:0L:45:ILE:HD12	2.00	0.44
9:0O:60:HIS:ND1	9:0O:80:GLN:HB3	2.33	0.44
13:0a:91:ARG:HB2	13:0a:94:GLU:HG3	1.99	0.44
14:0c:247:ARG:O	14:0c:251:GLU:OE1	2.36	0.44
15:0f:248:SER:O	15:0f:248:SER:OG	2.35	0.44
17:0n:228:ALA:HA	17:0n:231:ASP:OD2	2.18	0.44
17:0n:261:ARG:NH1	17:0n:265:GLU:HB2	2.33	0.44
18:0p:295:LEU:CB	18:0p:301:ALA:HB2	2.48	0.44
19:0r:70:ARG:NH2	19:0r:83:GLU:OE1	2.48	0.44
20:0t:193:ASP:OD2	20:0t:199:GLN:HB2	2.17	0.44
20:0t:210:ASP:OD1	20:0t:210:ASP:N	2.51	0.44
23:1F:365:MET:HE1	29:1l:201:TYR:CD1	2.53	0.44
23:1F:390:PHE:HA	23:1F:393:TRP:CD1	2.53	0.44
24:1I:536:GLN:HG3	24:1I:606:ILE:HG22	2.00	0.44
24:1J:207:ASP:N	24:1J:207:ASP:OD1	2.48	0.44
24:1J:640:LYS:HD2	24:1J:641:GLU:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:1K:479:ARG:HG2	24:1K:480:ALA:N	2.33	0.44
26:1Q:426:PHE:HB2	26:1Q:448:TYR:HB3	1.99	0.44
27:1T:811:PHE:O	27:1T:840:ARG:NH1	2.51	0.44
28:1U:251:HIS:HB3	28:1V:18:CYS:SG	2.58	0.44
29:1k:224:ARG:HG3	29:1k:225:TYR:CD2	2.52	0.44
29:1l:31:LEU:HD21	44:2w:349:ILE:HG21	2.00	0.44
31:1r:171:LYS:NZ	22:1x:200:VAL:HG13	2.33	0.44
32:2B:168:TYR:HD2	32:2B:188:ALA:HB2	1.82	0.44
32:2C:85:LYS:O	32:2C:89:ILE:HG12	2.18	0.44
33:2H:168:PRO:HD2	33:2H:238:PHE:CD2	2.45	0.44
33:2H:233:HIS:HA	33:2H:237:VAL:HB	1.99	0.44
33:2I:182:SER:OG	33:2I:183:TYR:N	2.51	0.44
37:2S:14:THR:OG1	37:2S:27:HIS:HB2	2.17	0.44
37:2S:93:CYS:SG	37:2S:208:ILE:HG23	2.58	0.44
38:2U:115:ALA:HA	38:2U:118:ILE:HD12	1.99	0.44
40:2Z:22:VAL:HG12	40:2Z:25:ARG:HH21	1.83	0.44
41:2l:215:SER:HA	41:2l:218:ARG:HE	1.82	0.44
41:2o:248:ASN:O	41:2o:252:GLU:HG3	2.18	0.44
41:2o:344:HIS:ND1	41:2o:348:MET:SD	2.85	0.44
41:2o:426:ARG:HG2	41:2o:426:ARG:HH11	1.83	0.44
42:2r:17:ARG:HD3	42:2r:131:ALA:HB1	1.98	0.44
44:2v:115:ILE:HG23	44:2v:131:ARG:HD3	1.98	0.44
44:2v:358:GLY:O	44:2v:362:ILE:HG12	2.18	0.44
44:2v:389:ILE:HD11	44:2v:395:PHE:HA	1.99	0.44
44:2w:231:ASP:HA	44:2w:234:ARG:HG2	2.00	0.44
45:2z:69:TYR:HD1	45:2z:70:PRO:HD2	1.81	0.44
47:3D:374:GLN:HB2	47:3D:377:THR:HG22	1.99	0.44
48:3G:81:LYS:HA	48:3G:81:LYS:HD3	1.73	0.44
49:3P:342:ARG:HG3	49:3P:342:ARG:HH11	1.82	0.44
49:3Q:418:SER:OG	49:3Q:419:VAL:N	2.51	0.44
54:3Z:398:ARG:HD3	54:3Z:402:GLY:HA2	1.99	0.44
57:3i:84:ARG:O	57:3i:88:VAL:HG23	2.17	0.44
59:3o:257:TYR:CE2	59:3o:259:GLU:HA	2.52	0.44
66:5K:118:LEU:HD13	66:5K:276:PRO:HG3	2.00	0.44
66:5K:147:PRO:HG3	66:5K:152:ASN:HA	2.00	0.44
66:5K:222:HIS:O	66:5K:226:THR:OG1	2.35	0.44
1:A:385:PHE:O	1:A:389:PHE:HB2	2.18	0.44
1:AH:113:ILE:HG12	1:AH:150:LEU:HD22	1.98	0.44
1:AH:299:MET:HE1	1:AH:367:PHE:CE2	2.53	0.44
1:AH:392:LYS:HE2	1:AH:392:LYS:HA	2.00	0.44
2:AI:22:GLU:O	2:AI:26:LEU:HD23	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AI:259:LEU:HG	2:AI:268:VAL:HG11	1.99	0.44
1:AJ:318:ARG:HA	1:AJ:354:CYS:O	2.18	0.44
2:AM:430:LYS:NZ	3:XF:102:ARG:HD3	2.33	0.44
2:BA:352:LYS:HG3	1:BB:177:ASP:O	2.18	0.44
1:BB:309:ARG:NH2	1:BB:343:GLU:OE1	2.50	0.44
1:BB:317:PHE:HB2	1:BB:353:ILE:HD13	2.00	0.44
2:BC:351:PHE:O	1:BD:178:THR:N	2.51	0.44
1:BD:268:MET:HE1	1:BD:368:ILE:HG23	2.00	0.44
2:BE:98:ASP:OD2	2:BE:99:ALA:N	2.50	0.44
2:BE:219:ILE:HG12	2:BE:222:PRO:HD3	1.98	0.44
1:BF:198:GLU:HA	1:BF:264:HIS:HB2	2.00	0.44
1:BF:273:LEU:HD23	1:BF:273:LEU:HA	1.83	0.44
1:BH:267:MET:HB2	1:BH:301:GLN:CD	2.42	0.44
1:BJ:343:GLU:O	1:BJ:346:PRO:HD3	2.18	0.44
2:BK:215:ARG:HH12	2:BK:299:ALA:HB1	1.83	0.44
2:BK:348:PRO:HG2	1:BL:384:GLN:HG3	1.99	0.44
1:CA:141:GLY:O	1:CA:145:SER:OG	2.33	0.44
1:CA:334:GLN:HE22	1:CA:348:ASN:H	1.65	0.44
2:CB:60:LYS:HE2	2:DB:282:TYR:HD2	1.81	0.44
2:CD:43:GLY:HA3	26:1Q:252:VAL:HG21	1.99	0.44
1:CE:198:GLU:HA	1:CE:264:HIS:HB2	2.00	0.44
1:CE:324:LYS:HD3	2:CF:210:TYR:CD1	2.53	0.44
1:CE:332:ASN:HB3	1:CE:336:LYS:HZ1	1.82	0.44
1:CE:362:LYS:HA	1:CE:362:LYS:HD2	1.80	0.44
2:CF:129:CYS:SG	2:CF:132:LEU:HB2	2.58	0.44
1:CG:165:MET:HE2	1:CG:198:GLU:OE2	2.18	0.44
2:CH:274:PRO:HD2	2:CH:374:ALA:HA	2.00	0.44
2:CH:370:LYS:NZ	24:1I:248:LEU:HD13	2.33	0.44
1:CI:334:GLN:HE21	1:CI:349:ILE:HG13	1.82	0.44
1:CI:343:GLU:O	1:CI:346:PRO:HD3	2.17	0.44
2:CJ:352:LYS:HD2	1:CK:177:ASP:O	2.17	0.44
1:CK:80:PRO:HB3	24:1J:352:TYR:CZ	2.53	0.44
2:DB:289:ALA:O	2:DB:293:ASN:ND2	2.38	0.44
1:DC:323:THR:HG21	2:DD:224:TYR:CZ	2.53	0.44
1:DE:186:THR:HA	1:DE:415:MET:CE	2.46	0.44
1:DE:249:ASP:O	1:DE:253:LEU:HG	2.18	0.44
2:DF:331:ALA:O	2:DF:335:ILE:HG12	2.17	0.44
2:DL:331:ALA:O	2:DL:335:ILE:HG12	2.17	0.44
2:DL:395:PHE:CD2	2:DL:422:ARG:HD3	2.53	0.44
2:EA:292:THR:HA	2:EA:295:VAL:HG12	2.00	0.44
1:EB:238:CYS:SG	1:EB:239:CYS:N	2.91	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EC:152:LEU:O	2:EC:156:ARG:HG2	2.17	0.44
2:EE:147:SER:HB2	2:EE:190:SER:HB3	2.00	0.44
2:EE:221:ARG:CZ	25:1O:584:SER:HB3	2.48	0.44
1:EH:311:LEU:HD23	1:EH:342:ILE:CD1	2.48	0.44
1:EJ:60:VAL:HG21	1:EJ:86:ARG:HE	1.83	0.44
2:EK:229:ARG:HD3	2:EK:363:VAL:HG21	2.00	0.44
1:F:249:ASP:OD1	1:F:252:LYS:HB2	2.18	0.44
1:FB:264:HIS:HA	1:FB:266:PHE:CE2	2.53	0.44
2:FC:91:GLN:HA	2:FC:121:ARG:HG2	1.99	0.44
2:FI:116:ASP:OD1	2:FI:117:LEU:N	2.49	0.44
2:FI:169:TYR:OH	2:FI:238:LEU:HD23	2.18	0.44
1:FJ:136:SER:HB3	1:FJ:233:MET:HE1	2.00	0.44
2:FK:226:ASN:ND2	2:FK:367:ASP:OD2	2.50	0.44
1:FL:26:ASP:OD1	1:FL:359:LYS:HG3	2.17	0.44
1:FL:253:LEU:HD21	1:FL:316:LEU:HD21	1.99	0.44
1:G:255:VAL:HG23	2:GA:407:TRP:CG	2.53	0.44
2:GA:352:LYS:HA	1:GB:177:ASP:C	2.43	0.44
1:GB:161:ASP:C	1:GB:251:ARG:HH22	2.25	0.44
1:GD:97:ALA:HB2	1:GD:143:THR:HB	2.00	0.44
2:GE:122:ILE:HD13	2:GE:122:ILE:HA	1.80	0.44
2:GG:167:LEU:HD21	2:GG:255:PHE:CE1	2.53	0.44
1:GH:8:GLN:NE2	1:GH:17:GLY:HA3	2.33	0.44
1:GH:350:LYS:HA	2:GI:179:THR:O	2.17	0.44
2:GK:26:LEU:HD23	43:2t:390:TYR:CE1	2.53	0.44
2:GK:282:TYR:HE2	10:0S:320:LEU:HD13	1.67	0.44
1:HD:377:MET:O	1:HD:381:VAL:HG23	2.18	0.44
1:HF:53:GLU:HG3	7:0D:116:TYR:CD2	2.53	0.44
1:HF:309:ARG:NH2	1:HF:341:PHE:O	2.51	0.44
1:HF:346:PRO:HG2	2:HG:394:LYS:HZ3	1.82	0.44
2:HG:21:TRP:CZ2	2:HG:65:CYS:HB3	2.53	0.44
1:HH:50:TYR:OH	1:HH:237:THR:OG1	2.27	0.44
1:HH:86:ARG:HG3	1:IH:281:TYR:HB3	2.00	0.44
2:HI:21:TRP:CZ2	2:HI:65:CYS:HB3	2.53	0.44
2:HM:150:GLY:O	2:HM:154:LEU:HD23	2.18	0.44
2:HM:345:ASP:OD1	2:HM:346:TRP:N	2.51	0.44
2:HM:424:ASP:O	2:HM:428:LEU:HD23	2.17	0.44
2:IA:97:GLU:OE2	2:IA:105:ARG:NH2	2.51	0.44
1:IB:183:TYR:OH	1:IB:393:ALA:O	2.24	0.44
2:IC:79:ARG:NH2	2:IC:94:SER:OG	2.42	0.44
2:IC:304:LYS:HA	2:IC:304:LYS:HD2	1.83	0.44
1:ID:293:MET:HE2	1:ID:365:VAL:HG21	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IE:103:TYR:HD1	2:IE:413:MET:HE1	1.82	0.44
2:IE:185:TYR:CZ	2:IE:398:MET:HB3	2.52	0.44
1:IF:27:GLU:CD	1:IF:241:ARG:HH12	2.25	0.44
1:IF:233:MET:O	1:IF:236:VAL:HG12	2.18	0.44
1:IF:324:LYS:HZ1	2:IG:221:ARG:HA	1.83	0.44
2:IG:285:GLN:HG3	7:0D:143:VAL:HB	1.99	0.44
2:II:5:ILE:HD13	2:II:64:ARG:HB3	2.00	0.44
1:IJ:50:TYR:CE2	1:IJ:237:THR:HG21	2.52	0.44
1:IL:174:ARG:HB2	1:IL:205:GLU:OE2	2.18	0.44
2:IM:208:ALA:HB2	2:IM:304:LYS:N	2.33	0.44
2:JB:211:ASP:O	2:JB:215:ARG:HG2	2.18	0.44
2:JB:288:VAL:HG22	2:JB:323:VAL:HG12	1.99	0.44
1:JC:228:LEU:O	1:JC:232:VAL:HG22	2.18	0.44
2:JD:325:PRO:HB2	1:JE:208:TYR:OH	2.18	0.44
1:JE:3:GLU:O	1:JE:131:GLN:N	2.51	0.44
1:JE:232:VAL:HG23	1:JE:366:THR:HB	1.99	0.44
2:JF:70:LEU:HD12	2:JF:99:ALA:HB2	2.00	0.44
2:JF:264:ARG:HG2	2:JF:264:ARG:NH1	2.33	0.44
1:JG:20:PHE:HA	1:JG:230:ALA:HB1	2.00	0.44
2:JH:103:TYR:CD2	2:JH:189:LEU:HB3	2.53	0.44
2:JH:173:PRO:HG3	2:JH:183:GLU:HG2	2.00	0.44
2:JJ:206:ASN:HD21	71:JJ:501:GTP:N2	2.16	0.44
2:JJ:400:SER:O	60:3s:112:ASN:ND2	2.46	0.44
2:JJ:426:ALA:HA	2:JJ:429:GLU:CD	2.43	0.44
2:JL:414:GLU:CD	2:JL:416:GLY:H	2.23	0.44
1:JM:73:MET:HG3	1:JM:90:PHE:HD2	1.83	0.44
2:JN:3:GLU:HA	2:JN:51:THR:HA	1.99	0.44
2:JN:96:LYS:HA	2:JN:96:LYS:HD2	1.75	0.44
2:JN:225:THR:O	2:JN:229:ARG:HG2	2.18	0.44
2:JN:370:LYS:HD2	2:JN:370:LYS:HA	1.67	0.44
2:K:84:ARG:HH12	2:K:85:GLN:NE2	2.16	0.44
2:K:319:TYR:HB3	2:K:323:VAL:HG11	2.00	0.44
1:KA:86:ARG:NH1	1:LA:281:TYR:O	2.51	0.44
1:KA:324:LYS:NZ	2:KB:222:PRO:O	2.32	0.44
2:KB:204:LEU:HD13	2:KB:231:ILE:HD13	1.99	0.44
2:KB:239:THR:HG23	2:KB:243:ARG:HH11	1.82	0.44
1:KC:204:ASN:HD22	1:KC:225:LEU:HD23	1.83	0.44
2:KD:9:ILE:HB	2:KD:139:HIS:HB3	2.00	0.44
2:KD:119:LEU:HD13	35:2N:197:TRP:CE2	2.53	0.44
2:KF:392:ASP:OD1	2:KF:393:HIS:N	2.51	0.44
2:KH:431:ASP:OD1	2:KH:432:TYR:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KM:73:MET:HB3	1:KM:90:PHE:CD2	2.50	0.44
2:LB:244:PHE:HB3	27:1S:47:GLN:O	2.18	0.44
2:LD:275:VAL:HG13	2:LD:275:VAL:O	2.18	0.44
1:LE:6:SER:O	1:LE:63:ALA:HA	2.18	0.44
1:LE:208:TYR:CZ	1:LE:225:LEU:HD11	2.53	0.44
1:LI:311:LEU:HB2	1:LI:370:ASN:O	2.18	0.44
1:LK:11:GLN:HA	1:LK:72:THR:HG21	2.00	0.44
2:LL:75:VAL:HG21	2:LL:94:SER:HB2	2.00	0.44
2:LL:433:GLU:HG3	31:1s:36:THR:HG21	2.00	0.44
2:LN:155:GLU:OE1	33:2I:235:ASN:HB2	2.17	0.44
2:LN:164:LYS:HA	2:LN:164:LYS:HD3	1.71	0.44
2:LN:248:LEU:HB2	2:LN:355:ILE:H	1.83	0.44
1:LO:267:MET:N	1:LO:369:GLY:O	2.41	0.44
1:LO:296:ALA:HB2	35:2O:183:TRP:CD2	2.53	0.44
1:M:40:SER:HB2	45:2y:148:LEU:HD21	2.00	0.44
1:MB:232:VAL:HG13	1:MB:366:THR:OG1	2.18	0.44
1:MD:74:ASP:OD2	1:MD:75:SER:N	2.50	0.44
1:MD:207:LEU:HB3	1:MD:225:LEU:HD22	2.00	0.44
1:MD:273:LEU:H	1:MD:292:GLN:HE22	1.65	0.44
2:ME:167:LEU:HD13	2:ME:252:LEU:HD12	2.00	0.44
2:MG:225:THR:HB	54:3a:30:ARG:HH21	1.83	0.44
2:MK:70:LEU:HD13	2:MK:145:THR:HG23	2.00	0.44
1:ML:253:LEU:O	1:ML:257:LEU:HD12	2.18	0.44
2:MM:88:ASN:ND2	2:MM:90:GLU:OE2	2.51	0.44
1:N:16:ILE:HD11	1:N:229:VAL:HG11	2.00	0.44
1:N:147:MET:O	1:N:151:LEU:HD23	2.18	0.44
1:ND:61:PRO:HD3	1:ND:84:LEU:HG	2.00	0.44
1:ND:101:TRP:NE1	1:ND:188:SER:OG	2.51	0.44
1:ND:286:VAL:HG22	1:ND:363:MET:HE1	2.00	0.44
2:NG:241:SER:OG	2:NG:250:VAL:O	2.28	0.44
1:NH:314:SER:OG	1:NH:368:ILE:HB	2.17	0.44
2:NK:352:LYS:HA	1:NL:177:ASP:O	2.18	0.44
2:NM:101:ASN:HB3	2:NM:182:VAL:CG1	2.46	0.44
2:NM:203:MET:HA	2:NM:203:MET:HE2	1.99	0.44
1:OB:304:ASP:OD2	1:OB:307:HIS:ND1	2.49	0.44
2:OC:143:GLY:HA3	71:OC:501:GTP:O1B	2.17	0.44
1:OF:134:GLN:NE2	1:OF:233:MET:HE2	2.33	0.44
1:OF:294:PHE:CE2	1:OF:333:VAL:HG21	2.53	0.44
1:OH:233:MET:O	1:OH:236:VAL:HG12	2.18	0.44
2:OI:324:VAL:HG23	2:OI:327:ASP:H	1.82	0.44
1:OL:101:TRP:CD1	1:OL:146:GLY:HA2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OL:113:ILE:HG12	1:OL:154:LYS:HD2	2.00	0.44
1:OL:190:HIS:O	1:OL:414:ASN:ND2	2.50	0.44
1:OL:259:PRO:HA	2:OM:404:PHE:CD1	2.52	0.44
2:PA:98:ASP:O	2:PA:105:ARG:NH1	2.51	0.44
1:PB:181:GLU:HB3	1:PB:182:PRO:HD3	2.00	0.44
1:PD:320:ARG:HG3	1:PD:320:ARG:HH11	1.82	0.44
1:PD:379:ARG:HG3	1:PD:379:ARG:HH11	1.82	0.44
2:PE:155:GLU:O	2:PE:159:VAL:HG23	2.17	0.44
1:PF:245:GLN:HB3	2:PG:224:TYR:HD1	1.83	0.44
2:PG:145:THR:OG1	71:PG:501:GTP:O2B	2.36	0.44
2:PG:240:ALA:HB1	2:PG:356:ASN:HD22	1.83	0.44
1:PH:265:PHE:HB3	1:PH:374:ILE:HD13	2.00	0.44
1:PJ:350:LYS:HD2	2:PK:179:THR:O	2.18	0.44
2:PK:288:VAL:HB	2:PK:327:ASP:HB3	1.99	0.44
2:Q:160:ASP:OD1	2:Q:161:TYR:N	2.51	0.44
2:Q:195:LEU:HD11	2:Q:428:LEU:HD11	2.00	0.44
2:Q:395:PHE:HE2	2:Q:422:ARG:HD3	1.83	0.44
1:QA:156:ARG:NH2	1:QA:164:MET:HG2	2.33	0.44
1:QC:163:ILE:HD11	1:QC:251:ARG:HE	1.83	0.44
2:QD:139:HIS:O	2:QD:170:THR:HA	2.18	0.44
2:QD:231:ILE:O	2:QD:235:VAL:HG23	2.18	0.44
1:QE:180:VAL:HG12	1:QE:180:VAL:O	2.18	0.44
1:QE:322:SER:OG	2:QF:222:PRO:O	2.35	0.44
1:QG:322:SER:HB2	2:QH:222:PRO:O	2.18	0.44
1:QI:37:GLN:HE21	41:2e:221:ARG:NH1	2.15	0.44
2:QJ:331:ALA:O	2:QJ:335:ILE:HG12	2.18	0.44
1:QK:173:PRO:HA	1:QK:176:SER:HB2	2.00	0.44
2:QL:152:LEU:HA	2:QL:155:GLU:HG3	2.00	0.44
2:RB:288:VAL:HB	2:RB:327:ASP:HB3	2.00	0.44
1:RC:28:HIS:NE2	1:RC:241:ARG:HD2	2.32	0.44
2:RF:213:THR:HA	2:RF:217:LEU:HB2	2.00	0.44
1:RG:120:CYS:SG	1:RG:155:LEU:HD21	2.57	0.44
2:RH:50:ASN:O	2:RH:64:ARG:NH1	2.51	0.44
2:RH:79:ARG:NH2	2:RH:92:LEU:O	2.50	0.44
2:RL:230:LEU:HD11	2:RL:275:VAL:HG21	2.00	0.44
2:RL:291:ILE:O	2:RL:295:VAL:HG23	2.18	0.44
1:S:128:ASP:OD2	61:3w:135:LYS:HG2	2.17	0.44
1:S:250:LEU:HD13	1:S:250:LEU:HA	1.88	0.44
2:SA:232:GLY:HA2	2:SA:235:VAL:HG12	2.00	0.44
2:SC:219:ILE:HD11	2:SC:367:ASP:HB3	2.00	0.44
2:SC:252:LEU:HA	2:SC:255:PHE:CE1	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SF:215:LEU:HD21	1:SF:273:LEU:HD22	2.00	0.44
2:SI:331:ALA:O	2:SI:335:ILE:HG12	2.18	0.44
2:SK:119:LEU:HD22	61:3x:106:HIS:HD1	1.81	0.44
1:T:186:THR:HG21	1:T:385:PHE:CG	2.52	0.44
1:T:239:CYS:HB3	1:T:248:SER:H	1.83	0.44
1:TB:169:VAL:HA	1:TB:202:ILE:HB	2.00	0.44
1:TB:290:THR:HG21	1:TB:329:GLN:HB3	2.00	0.44
2:TC:384:ILE:O	2:TC:387:VAL:HG12	2.17	0.44
1:TD:322:SER:OG	2:TE:222:PRO:O	2.28	0.44
1:TF:169:VAL:HG22	1:TF:202:ILE:HB	1.99	0.44
2:TI:186:ASN:OD1	2:TI:408:TYR:OH	2.32	0.44
1:TJ:340:TYR:HE1	61:3x:75:LEU:HB2	1.82	0.44
2:TK:70:LEU:HD12	2:TK:99:ALA:HB2	1.99	0.44
2:TK:419:SER:O	2:TK:423:GLU:OE1	2.35	0.44
1:U:263:LEU:HD13	1:U:311:LEU:HD13	1.99	0.44
2:UA:1:MET:C	2:UA:2:ARG:HD3	2.42	0.44
2:UA:75:VAL:HG21	2:UA:94:SER:HB2	1.99	0.44
2:UA:187:CYS:O	2:UA:191:THR:OG1	2.33	0.44
1:UB:113:ILE:O	1:UB:117:LEU:HD23	2.17	0.44
1:UB:274:THR:HG22	53:3W:202:LEU:HB2	1.98	0.44
1:UD:165:MET:HE1	1:UD:236:VAL:HG11	1.99	0.44
2:UE:22:GLU:HG2	2:UE:83:TYR:CE1	2.52	0.44
2:UE:70:LEU:HD23	2:UE:145:THR:HG23	1.99	0.44
1:UF:21:TRP:CZ2	1:UF:63:ALA:HB2	2.53	0.44
1:UF:357:PRO:HG2	34:2L:136:ARG:HH22	1.82	0.44
1:UF:364:SER:OG	1:UF:365:VAL:N	2.51	0.44
1:UH:50:TYR:CE1	1:UH:241:ARG:HD3	2.53	0.44
1:UL:207:LEU:HD23	1:UL:300:MET:HG2	2.00	0.44
1:UL:310:TYR:HB2	1:UL:341:PHE:CD1	2.52	0.44
1:UL:344:TRP:O	1:UL:345:ILE:HD13	2.17	0.44
1:VB:66:MET:HG2	1:VB:116:VAL:HG21	1.99	0.44
1:VD:274:THR:HG22	1:VD:282:ARG:HD3	2.00	0.44
2:VG:22:GLU:O	2:VG:26:LEU:HD23	2.18	0.44
2:VG:66:LEU:HA	2:VG:91:GLN:O	2.18	0.44
1:VH:257:LEU:HB3	1:VH:266:PHE:CE1	2.52	0.44
1:VJ:209:ASP:HA	1:VJ:212:PHE:HB2	1.99	0.44
1:VL:311:LEU:O	1:VL:348:ASN:ND2	2.51	0.44
1:WB:226:ASN:OD1	69:WB:500:GDP:N1	2.50	0.44
2:WC:295:VAL:HG21	2:WC:375:VAL:HG13	2.00	0.44
1:WD:198:GLU:HB2	1:WD:266:PHE:HE2	1.82	0.44
2:WE:124:LYS:HZ2	4:XO:31:PHE:HE1	1.64	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:WK:365:GLY:HA3	9:0N:406:ASP:HB3	2.00	0.44
1:WL:252:LYS:HD3	2:WM:100:ALA:HA	2.00	0.44
2:WM:227:VAL:O	2:WM:231:ILE:HG12	2.17	0.44
3:X:74:PRO:HD2	3:X:169:ASP:HA	1.99	0.44
3:XC:30:ARG:NH1	3:XC:31:ASN:OD1	2.51	0.44
9:0L:331:VAL:HG21	9:0L:373:GLN:HA	2.00	0.44
9:0N:212:LYS:O	9:0N:228:LEU:HD23	2.18	0.44
9:0N:352:ASN:ND2	9:0N:353:ALA:N	2.66	0.44
10:0S:464:MET:O	10:0S:468:GLU:HG3	2.18	0.44
14:0c:75:ASN:HB2	14:0c:78:PHE:HB2	2.00	0.44
14:0d:313:THR:H	14:0d:316:MET:HB3	1.83	0.44
17:0m:26:ARG:HH22	20:0t:21:GLN:HE22	1.66	0.44
17:0n:272:LEU:O	17:0n:275:LEU:HG	2.17	0.44
19:0r:263:PRO:HA	23:1E:185:TRP:HH2	1.83	0.44
24:1I:30:ARG:HH12	40:2Z:369:GLN:H	1.66	0.44
24:1J:11:LYS:HZ3	24:1J:13:PHE:HE1	1.64	0.44
25:1O:434:ARG:HH21	25:1O:442:GLY:HA3	1.83	0.44
26:1Q:486:LEU:O	26:1Q:491:ASN:ND2	2.51	0.44
27:1T:693:MET:N	27:1T:693:MET:HE2	2.33	0.44
27:1T:823:THR:HG23	27:1T:824:ARG:HG2	2.00	0.44
28:1X:159:GLN:HE22	28:1X:161:ARG:HB2	1.83	0.44
28:1Y:70:GLU:CD	41:2e:280:LEU:HD23	2.43	0.44
28:1g:215:ARG:HD2	28:1g:217:PHE:CZ	2.53	0.44
29:1l:5:TYR:HB2	49:3Q:406:TYR:CD1	2.53	0.44
31:1q:61:TYR:CD1	31:1q:72:MET:HG3	2.53	0.44
32:2B:22:LEU:O	32:2B:26:GLN:HG2	2.18	0.44
35:2O:125:LEU:H	35:2O:125:LEU:HD23	1.82	0.44
36:2Q:113:LEU:HD23	36:2Q:193:GLY:HA2	2.00	0.44
37:2S:128:LYS:HE2	37:2S:136:GLN:OE1	2.18	0.44
41:2h:267:LYS:HG2	41:2h:270:ARG:HH22	1.82	0.44
41:2i:471:LEU:O	41:2i:475:ILE:HG12	2.18	0.44
41:2o:368:HIS:CE1	41:2o:372:MET:HE3	2.53	0.44
44:2v:208:ILE:HD12	44:2v:362:ILE:HG21	1.99	0.44
44:2w:366:ASN:HB3	44:2w:369:TYR:O	2.18	0.44
46:3B:206:GLU:HG2	46:3B:236:TYR:H	1.82	0.44
49:3Q:430:LEU:HD22	49:3Q:505:TYR:HB3	1.99	0.44
52:3U:127:ALA:HB3	52:3U:130:ILE:HD11	2.00	0.44
52:3U:291:ARG:HA	52:3U:294:VAL:HG12	1.98	0.44
57:3f:16:SER:HB3	57:3f:17:PRO:HD3	2.00	0.44
57:3f:32:MET:O	57:3f:35:MET:N	2.44	0.44
58:3m:168:ARG:HD3	61:3w:243:TRP:CG	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:3p:272:MET:CE	59:3p:275:ARG:HH21	2.31	0.44
60:3s:75:ILE:HA	60:3s:78:THR:HG22	1.99	0.44
62:4A:429:HIS:O	62:4A:433:THR:HG23	2.18	0.44
64:5C:160:LEU:HD12	65:5H:160:ARG:NH1	2.32	0.44
67:5O:20:PRO:HG3	67:5O:110:VAL:HG21	1.98	0.44
1:A:222:PHE:O	1:A:226:ASN:ND2	2.50	0.43
2:AA:31:GLN:HB3	2:AA:32:PRO:HD2	1.99	0.43
2:AA:102:ASN:HB3	2:AA:105:ARG:HB2	1.99	0.43
2:AC:53:PHE:HB3	2:AC:61:HIS:HB3	2.00	0.43
1:AD:156:ARG:HG3	1:AD:195:ASN:HA	2.00	0.43
2:AE:169:TYR:CD2	2:AE:235:VAL:HG22	2.52	0.43
2:AE:319:TYR:HB3	2:AE:323:VAL:HG21	2.00	0.43
1:AF:289:LEU:O	1:AF:293:MET:HG3	2.18	0.43
2:AG:295:VAL:CG1	2:AG:377:MET:HE3	2.46	0.43
2:AG:439:SER:HB3	1:AH:391:ARG:HD3	2.00	0.43
1:AH:19:LYS:HD3	1:AH:226:ASN:HB3	1.96	0.43
1:AH:207:LEU:HD22	1:AH:300:MET:HB2	1.98	0.43
1:AH:320:ARG:HB2	1:AH:320:ARG:NH1	2.33	0.43
1:AJ:385:PHE:CZ	1:AJ:408:PHE:HD2	2.36	0.43
2:AK:211:ASP:O	2:AK:215:ARG:HD3	2.18	0.43
2:AM:142:GLY:CA	2:AM:183:GLU:HG3	2.48	0.43
1:AN:221:THR:HG23	1:AN:223:GLY:H	1.82	0.43
1:AN:336:LYS:HG3	1:AN:337:ASN:OD1	2.18	0.43
1:AN:344:TRP:HZ2	1:AN:425:TYR:HB3	1.82	0.43
1:B:247:ASN:H	2:BA:11:GLN:HE22	1.66	0.43
2:BA:70:LEU:HD13	2:BA:145:THR:HG23	2.00	0.43
2:BA:251:ASP:H	2:BA:254:GLU:HB3	1.81	0.43
2:BC:207:GLU:HA	2:BC:210:TYR:CD2	2.53	0.43
2:BG:22:GLU:OE2	2:BG:229:ARG:NH1	2.50	0.43
2:BG:254:GLU:CD	1:BH:98:GLY:CA	2.91	0.43
1:BJ:139:LEU:CD2	1:BJ:188:SER:HB2	2.48	0.43
1:BJ:238:CYS:CB	1:BJ:318:ARG:HD3	2.48	0.43
1:BJ:388:MET:HE3	1:BJ:388:MET:HB3	1.92	0.43
1:BL:288:GLU:HA	1:BL:291:GLN:HG3	2.00	0.43
1:BL:375:GLN:HB2	1:BL:419:VAL:HG13	1.99	0.43
2:BM:88:ASN:H	2:BM:91:GLN:NE2	2.15	0.43
2:C:312:TYR:HB2	2:C:343:PHE:CD1	2.53	0.43
2:C:349:THR:OG1	2:C:350:GLY:N	2.50	0.43
1:CA:177:ASP:OD2	69:CA:500:GDP:O2'	2.32	0.43
2:CB:226:ASN:ND2	16:0k:687:ARG:HH22	2.16	0.43
1:CC:22:GLU:HB3	27:1S:346:ASN:ND2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CF:439:SER:HB2	1:CG:390:ARG:HH12	1.83	0.43
1:CG:309:ARG:HH21	1:CG:342:ILE:HG13	1.83	0.43
2:CH:172:TYR:CE1	2:CH:203:MET:HG3	2.52	0.43
1:CI:19:LYS:O	1:CI:23:VAL:HG23	2.18	0.43
1:CK:201:CYS:SG	1:CK:374:ILE:HD11	2.58	0.43
1:CK:341:PHE:HB3	1:CK:348:ASN:OD1	2.17	0.43
2:CL:41:CYS:SG	24:1K:254:VAL:HG13	2.58	0.43
2:D:227:VAL:O	2:D:231:ILE:HG12	2.18	0.43
2:D:238:LEU:HD13	2:D:318:MET:HG3	2.00	0.43
1:DE:313:ALA:HB3	1:DE:349:ILE:HG12	1.98	0.43
2:DF:8:HIS:HE1	2:DF:21:TRP:HE1	1.65	0.43
1:DG:141:GLY:HA3	69:DG:500:GDP:O3A	2.18	0.43
1:DI:292:GLN:HG2	1:DI:298:ASN:ND2	2.33	0.43
2:DJ:246:GLY:HA3	2:DJ:356:ASN:HA	2.00	0.43
2:DJ:269:LEU:HD21	2:DJ:305:CYS:SG	2.57	0.43
2:DJ:271:SER:OG	2:DJ:295:VAL:HG13	2.18	0.43
1:E:372:THR:O	1:E:375:GLN:HG2	2.18	0.43
1:EF:293:MET:HE3	1:EF:293:MET:HB2	1.80	0.43
1:EH:311:LEU:HD23	1:EH:342:ILE:HD12	2.00	0.43
1:F:228:LEU:O	1:F:232:VAL:HG23	2.18	0.43
1:F:248:SER:HA	1:F:252:LYS:HD3	1.98	0.43
2:FA:199:ASP:HB3	2:FA:256:GLN:NE2	2.33	0.43
1:FD:167:PHE:CD1	1:FD:200:MET:HB2	2.53	0.43
1:FD:267:MET:N	1:FD:369:GLY:O	2.45	0.43
1:FH:10:GLY:HA2	1:FH:143:THR:HG23	2.00	0.43
1:FH:197:ASP:OD1	1:FH:198:GLU:HG2	2.17	0.43
1:FH:386:THR:O	1:FH:390:ARG:HG2	2.18	0.43
1:FL:181:GLU:O	1:FL:185:THR:HG22	2.18	0.43
2:GA:185:TYR:HE2	2:GA:404:PHE:HB2	1.83	0.43
2:GC:274:PRO:HB2	2:GC:276:VAL:HG23	1.98	0.43
1:GD:36:TYR:OH	1:GD:43:GLN:HB2	2.18	0.43
1:GD:233:MET:O	1:GD:236:VAL:HG22	2.17	0.43
1:GF:60:VAL:HG21	1:GF:86:ARG:HH21	1.82	0.43
2:GG:345:ASP:OD1	2:GG:346:TRP:N	2.51	0.43
1:GH:8:GLN:O	1:GH:14:ASN:ND2	2.51	0.43
1:GH:293:MET:HG3	1:GH:367:PHE:HB2	1.99	0.43
2:GK:352:LYS:HD3	1:GL:178:THR:HA	2.00	0.43
1:GL:19:LYS:HB2	1:GL:19:LYS:HE2	1.77	0.43
1:GL:65:LEU:HD22	1:GL:90:PHE:CE1	2.52	0.43
1:HB:266:PHE:CD1	1:HB:370:ASN:HB2	2.53	0.43
1:HF:116:VAL:HG11	1:HF:151:LEU:HD12	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HF:257:LEU:HD22	1:HF:368:ILE:HG13	2.00	0.43
2:HI:103:TYR:HB3	2:HI:408:TYR:HE2	1.83	0.43
1:HJ:180:VAL:HG12	1:HJ:180:VAL:O	2.17	0.43
2:HK:372:GLN:NE2	17:0n:144:GLN:HG2	2.14	0.43
1:HL:313:ALA:HB1	1:HL:367:PHE:HE1	1.82	0.43
1:HL:346:PRO:HG2	2:HM:394:LYS:NZ	2.33	0.43
2:HM:17:GLY:HA2	2:HM:20:CYS:SG	2.58	0.43
2:HM:21:TRP:CZ2	2:HM:65:CYS:HB3	2.53	0.43
1:I:249:ASP:OD1	1:I:252:LYS:HG2	2.19	0.43
1:I:309:ARG:HD3	1:I:426:GLN:HB2	2.00	0.43
1:I:378:PHE:HD1	1:I:415:MET:HE1	1.83	0.43
2:IA:88:ASN:OD1	2:IA:89:PRO:HD2	2.17	0.43
2:IC:3:GLU:HA	2:IC:51:THR:HA	2.00	0.43
2:II:90:GLU:HA	2:II:121:ARG:HH21	1.83	0.43
1:IJ:3:GLU:O	1:IJ:131:GLN:N	2.51	0.43
1:IL:289:LEU:HD13	1:IL:365:VAL:HG23	2.00	0.43
1:IL:386:THR:HA	1:IL:389:PHE:HB3	1.99	0.43
2:IM:82:THR:OG1	38:2V:100:THR:OG1	2.26	0.43
2:IM:402:ARG:HD3	2:IM:402:ARG:HA	1.82	0.43
2:J:56:THR:HA	2:K:285:GLN:NE2	2.28	0.43
2:J:211:ASP:O	2:J:215:ARG:HG2	2.18	0.43
2:J:325:PRO:HA	2:J:328:VAL:HG12	2.00	0.43
1:JA:139:LEU:HD12	1:JA:170:ILE:HG13	2.01	0.43
1:JE:388:MET:HE2	1:JE:388:MET:HA	1.99	0.43
1:JE:392:LYS:HD2	1:JE:395:LEU:HD23	2.00	0.43
1:JG:372:THR:HG21	1:JG:426:GLN:HA	1.99	0.43
1:JI:350:LYS:HA	2:JJ:179:THR:O	2.17	0.43
2:JJ:21:TRP:CZ2	2:JJ:65:CYS:HB3	2.52	0.43
1:JK:252:LYS:CD	2:JL:100:ALA:HA	2.48	0.43
1:JK:314:SER:OG	1:JK:368:ILE:HG13	2.18	0.43
2:JL:232:GLY:HA2	2:JL:235:VAL:HG12	1.99	0.43
2:JL:238:LEU:HA	2:JL:318:MET:CE	2.48	0.43
2:JL:238:LEU:HD13	2:JL:318:MET:HE2	1.99	0.43
2:JN:255:PHE:HD2	2:JN:259:LEU:HD12	1.83	0.43
2:JN:275:VAL:HG13	2:JN:275:VAL:O	2.18	0.43
2:K:176:GLN:HB2	2:K:207:GLU:OE2	2.18	0.43
1:KA:289:LEU:O	1:KA:293:MET:HB2	2.18	0.43
1:KC:20:PHE:HA	1:KC:230:ALA:HB1	1.99	0.43
1:KC:186:THR:HG23	1:KC:415:MET:HG3	2.00	0.43
1:KC:296:ALA:HB2	1:KC:306:ARG:NH1	2.22	0.43
2:KD:101:ASN:HA	2:KD:144:GLY:H	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KE:286:VAL:CG1	1:KE:325:GLU:HB3	2.48	0.43
2:KF:167:LEU:HD11	2:KF:252:LEU:HD22	2.00	0.43
2:KJ:167:LEU:HG	2:KJ:252:LEU:HD22	2.00	0.43
2:KJ:340:THR:HG23	2:KJ:341:ILE:HG23	2.00	0.43
1:KK:165:MET:CE	1:KK:198:GLU:HG3	2.48	0.43
1:KK:350:LYS:NZ	2:KL:179:THR:HG22	2.32	0.43
1:KM:203:ASP:CG	1:KM:302:ALA:HB2	2.42	0.43
2:KN:264:ARG:HD2	2:KN:431:ASP:OD2	2.18	0.43
2:L:226:ASN:ND2	2:L:367:ASP:OD2	2.51	0.43
2:L:338:LYS:HD2	2:L:339:ARG:H	1.83	0.43
2:LB:3:GLU:N	2:LB:3:GLU:OE1	2.51	0.43
2:LB:109:THR:OG1	2:LB:411:GLU:OE2	2.33	0.43
2:LB:396:ASP:OD1	2:LB:422:ARG:NE	2.50	0.43
2:LD:248:LEU:H	2:LD:355:ILE:HB	1.83	0.43
2:LD:265:ILE:HG23	2:LD:432:TYR:CE1	2.53	0.43
2:LH:31:GLN:HA	2:LH:31:GLN:OE1	2.18	0.43
2:LH:184:PRO:HA	2:LH:391:ILE:HD11	2.00	0.43
1:LI:42:LEU:HD21	45:2z:8:ARG:NH1	2.33	0.43
1:LI:125:GLU:OE1	1:MH:291:GLN:NE2	2.51	0.43
2:LJ:274:PRO:HG2	2:LJ:371:VAL:HG11	2.00	0.43
1:LK:237:THR:O	1:LK:241:ARG:HG3	2.16	0.43
1:LK:285:SER:H	1:LK:288:GLU:HG3	1.83	0.43
2:LL:291:ILE:O	2:LL:295:VAL:HG23	2.17	0.43
2:LN:248:LEU:HG	1:LO:222:PHE:HE2	1.82	0.43
1:LO:184:ASN:OD1	1:LO:398:TYR:OH	2.22	0.43
1:LO:424:GLN:HA	1:LO:427:ASP:OD1	2.18	0.43
2:MA:276:VAL:HB	2:MA:280:LYS:HB2	2.00	0.43
1:MB:251:ARG:HG3	1:MB:251:ARG:HH11	1.82	0.43
1:MF:226:ASN:ND2	69:MF:500:GDP:HN1	2.16	0.43
2:MG:115:VAL:HG11	2:MG:152:LEU:HG	2.00	0.43
2:MI:211:ASP:O	2:MI:215:ARG:HG3	2.18	0.43
1:MJ:234:SER:O	1:MJ:241:ARG:NH2	2.39	0.43
2:MK:207:GLU:HG3	2:MK:304:LYS:NZ	2.33	0.43
2:MK:333:ALA:O	2:MK:337:THR:HG23	2.18	0.43
2:NA:51:THR:HG21	2:NA:243:ARG:HG2	1.99	0.43
2:NA:84:ARG:HG3	2:NA:85:GLN:N	2.32	0.43
2:NA:169:TYR:HB3	2:NA:204:LEU:HD11	1.99	0.43
2:NA:275:VAL:O	2:NA:275:VAL:HG13	2.18	0.43
2:NC:49:PHE:HD2	2:NC:53:PHE:HB2	1.82	0.43
1:ND:12:CYS:SG	1:ND:138:SER:HB3	2.58	0.43
1:ND:257:LEU:HA	1:ND:312:THR:HG21	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ND:344:TRP:O	2:NE:397:LEU:HB3	2.18	0.43
2:NI:392:ASP:OD1	2:NI:393:HIS:N	2.51	0.43
2:NK:234:VAL:HG21	2:NK:302:LEU:HD22	1.99	0.43
2:NK:237:SER:HA	2:NK:320:ARG:HD2	2.00	0.43
2:NK:388:PHE:O	2:NK:391:ILE:HG22	2.18	0.43
2:NM:173:PRO:HG2	2:NM:183:GLU:HB3	1.99	0.43
2:OA:205:ASP:OD2	2:OA:304:LYS:N	2.32	0.43
2:OC:118:ALA:O	2:OC:122:ILE:HG12	2.18	0.43
1:OD:226:ASN:OD1	69:OD:500:GDP:N1	2.46	0.43
2:OE:301:MET:HB3	2:OE:303:THR:HG22	2.00	0.43
1:OH:377:MET:O	1:OH:380:ARG:HG2	2.18	0.43
2:OK:24:PHE:HA	2:OK:27:GLU:HG2	2.00	0.43
2:OK:335:ILE:HD13	2:OK:338:LYS:NZ	2.33	0.43
2:OM:31:GLN:HG2	2:OM:33:ASP:OD1	2.18	0.43
2:OM:331:ALA:O	2:OM:335:ILE:HG12	2.17	0.43
2:PA:15:GLN:HA	2:PA:15:GLN:OE1	2.17	0.43
2:PA:337:THR:O	2:PA:339:ARG:NH1	2.51	0.43
1:PB:323:THR:HG21	2:PC:224:TYR:CZ	2.52	0.43
2:PC:238:LEU:HD22	2:PC:376:CYS:SG	2.58	0.43
1:PD:130:LEU:HD21	1:PD:133:PHE:CE2	2.53	0.43
1:PD:331:LEU:HD21	2:PE:176:GLN:HB3	2.00	0.43
1:PD:423:GLN:O	1:PD:426:GLN:HG3	2.18	0.43
2:PE:239:THR:O	2:PE:243:ARG:HG3	2.18	0.43
2:PG:296:PHE:CD2	2:PG:335:ILE:HG13	2.53	0.43
1:PJ:207:LEU:HB3	1:PJ:225:LEU:HD22	2.00	0.43
2:PK:262:TYR:CE1	1:PL:393:ALA:HA	2.48	0.43
1:PL:66:MET:HE1	1:PL:151:LEU:HD22	1.99	0.43
1:PL:131:GLN:HG2	1:PL:163:ILE:HD13	2.00	0.43
1:PL:245:GLN:O	2:PM:11:GLN:NE2	2.50	0.43
2:PM:56:THR:HA	2:QL:285:GLN:OE1	2.17	0.43
2:Q:268:VAL:HG23	2:Q:378:ILE:HD11	2.00	0.43
2:Q:295:VAL:HG12	2:Q:377:MET:HE2	2.00	0.43
1:QA:321:MET:HE2	1:QA:321:MET:HB3	1.84	0.43
2:QD:52:PHE:HE2	2:QD:239:THR:HG21	1.83	0.43
2:QD:212:LEU:HD21	2:QD:275:VAL:HG21	2.00	0.43
1:QE:173:PRO:HG2	1:QE:380:ARG:HG2	2.00	0.43
1:QE:274:THR:OG1	1:QE:278:SER:OG	2.27	0.43
1:QE:337:ASN:HB3	1:QE:340:TYR:HD1	1.83	0.43
1:QG:8:GLN:HE21	1:QG:65:LEU:CD1	2.31	0.43
1:QG:130:LEU:HD22	1:QG:162:ARG:HG3	2.00	0.43
1:QI:344:TRP:CD1	1:QI:344:TRP:H	2.35	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:269:LEU:HD23	2:R:269:LEU:H	1.83	0.43
1:RA:66:MET:HE3	1:RA:116:VAL:HG11	1.99	0.43
2:RD:155:GLU:HB2	2:RD:197:HIS:CD2	2.53	0.43
1:RE:6:SER:O	1:RE:63:ALA:HA	2.18	0.43
1:RE:139:LEU:HD11	1:RE:192:LEU:HD12	1.99	0.43
1:RE:395:LEU:HB3	55:3b:122:TYR:HE2	1.83	0.43
2:RF:221:ARG:N	2:RF:222:PRO:HD3	2.33	0.43
1:RG:3:GLU:H	1:RG:131:GLN:H	1.65	0.43
2:RH:156:ARG:HA	2:RH:159:VAL:HG12	2.00	0.43
2:RH:282:TYR:CD2	41:2e:255:ALA:HB1	2.53	0.43
1:RI:178:THR:OG1	1:RI:181:GLU:HG3	2.18	0.43
2:RJ:275:VAL:HG23	2:RJ:368:LEU:HD21	1.99	0.43
1:RK:27:GLU:OE2	1:RK:241:ARG:NH1	2.50	0.43
1:S:255:VAL:HG23	2:SA:407:TRP:CG	2.53	0.43
2:SA:127:ASP:OD1	2:SA:128:ASN:N	2.51	0.43
2:SA:167:LEU:HD21	2:SA:252:LEU:HB3	2.00	0.43
2:SA:318:MET:O	2:SA:375:VAL:HA	2.18	0.43
1:SB:130:LEU:HD21	1:SB:133:PHE:CE1	2.53	0.43
1:SB:175:VAL:HG12	1:SB:175:VAL:O	2.18	0.43
1:SB:350:LYS:HE2	1:SB:350:LYS:HA	1.99	0.43
2:SI:155:GLU:O	2:SI:159:VAL:HG23	2.19	0.43
2:SI:306:ASP:HB3	2:SI:309:HIS:HD2	1.80	0.43
1:SJ:8:GLN:OE1	1:SJ:17:GLY:HA3	2.17	0.43
2:SK:3:GLU:HA	2:SK:51:THR:HG23	2.00	0.43
2:TA:27:GLU:HB2	2:TA:361:THR:HG21	2.00	0.43
1:TD:306:ARG:HA	1:TD:340:TYR:HE1	1.83	0.43
1:TF:207:LEU:HD13	1:TF:225:LEU:HB3	2.00	0.43
2:TG:183:GLU:HG2	2:TG:184:PRO:HD3	2.00	0.43
2:TG:384:ILE:O	2:TG:387:VAL:HG12	2.18	0.43
1:TH:245:GLN:OE1	1:TH:323:THR:OG1	2.36	0.43
1:U:406:MET:SD	1:U:406:MET:N	2.91	0.43
2:UC:195:LEU:HD21	2:UC:264:ARG:NE	2.27	0.43
2:UC:316:CYS:HA	2:UC:352:LYS:O	2.18	0.43
1:UF:164:MET:HB3	1:UF:197:ASP:H	1.83	0.43
1:UH:344:TRP:CE2	2:UI:401:LYS:HE2	2.53	0.43
1:UJ:329:GLN:HA	1:UJ:332:ASN:OD1	2.18	0.43
1:UJ:385:PHE:CE2	1:UJ:412:GLU:HB2	2.53	0.43
2:UK:155:GLU:HG2	2:UK:197:HIS:ND1	2.33	0.43
1:UL:202:ILE:HD11	1:UL:268:MET:HG3	1.99	0.43
1:V:91:ILE:HD13	1:V:116:VAL:HA	2.00	0.43
1:V:267:MET:HG2	1:V:301:GLN:NE2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VA:425:LEU:O	2:VA:429:GLU:OE1	2.36	0.43
1:VD:399:THR:HA	1:VD:403:MET:O	2.18	0.43
1:VF:8:GLN:NE2	1:VF:65:LEU:HG	2.34	0.43
2:VG:98:ASP:N	2:VG:98:ASP:OD1	2.51	0.43
1:VH:164:MET:N	1:VH:197:ASP:OD2	2.34	0.43
2:VM:31:GLN:HG2	2:VM:37:PRO:HD3	2.00	0.43
2:VM:155:GLU:HG3	2:VM:197:HIS:CE1	2.53	0.43
1:W:294:PHE:CE2	1:W:333:VAL:HG11	2.52	0.43
1:W:321:MET:HE2	1:W:363:MET:HG3	2.00	0.43
1:WD:323:THR:HA	1:WD:326:VAL:HG12	2.00	0.43
1:WF:88:ASP:OD2	4:XO:266:GLY:N	2.50	0.43
1:WJ:395:LEU:HD12	1:WJ:398:TYR:HB2	2.00	0.43
1:WL:51:PHE:O	1:WL:62:ARG:NH1	2.51	0.43
1:WL:68:LEU:HD12	1:WL:97:ALA:HB2	2.00	0.43
1:WL:242:PHE:HB2	1:WL:354:CYS:SG	2.58	0.43
3:XA:96:ASP:N	3:XA:96:ASP:OD1	2.51	0.43
3:XE:31:ASN:HD22	3:XE:31:ASN:HA	1.58	0.43
3:XE:91:VAL:HG12	3:XE:103:PHE:HB2	1.98	0.43
5:XN:82:ILE:HG21	32:2B:85:LYS:HE2	1.99	0.43
4:XO:186:GLU:HG3	4:XO:187:ARG:HG3	1.99	0.43
5:XP:23:PRO:HA	5:XP:126:ARG:HH12	1.83	0.43
5:XP:47:ALA:HB3	9:0M:361:ARG:HB2	2.00	0.43
4:XR:220:ARG:HG3	4:XR:276:LEU:HD21	1.99	0.43
7:0D:159:ARG:HB2	7:0D:159:ARG:NH1	2.33	0.43
8:0F:131:MET:O	8:0F:135:ILE:HG12	2.18	0.43
8:0G:362:LEU:O	8:0G:365:ILE:HG22	2.17	0.43
9:0L:48:ALA:HB3	9:0L:293:MET:HE1	1.99	0.43
9:0M:305:ASN:OD1	9:0M:321:THR:HG22	2.18	0.43
9:0N:438:VAL:HG12	9:0N:474:ILE:HD11	2.00	0.43
9:0N:551:ALA:HB3	9:0N:571:ASP:HB3	1.99	0.43
13:0Z:260:VAL:HG12	13:0Z:264:MET:HE2	2.00	0.43
14:0d:294:ARG:HH11	14:0d:294:ARG:HG2	1.83	0.43
16:0l:101:PHE:O	16:0l:105:LEU:HD23	2.18	0.43
16:0l:272:GLN:HE22	16:0l:278:LEU:HB2	1.83	0.43
16:0k:25:PHE:CE1	16:0k:27:LYS:HB3	2.53	0.43
16:0k:55:VAL:HG12	16:0k:57:LEU:CD2	2.47	0.43
17:0n:113:LYS:HE2	17:0n:113:LYS:HB2	1.79	0.43
17:0n:353:GLN:O	17:0n:357:LYS:HG3	2.18	0.43
23:1E:41:LYS:O	23:1E:45:MET:HG2	2.18	0.43
24:1H:654:ALA:HA	24:1H:657:ARG:NH1	2.32	0.43
24:1I:651:GLU:CD	24:1I:717:LYS:HZ3	2.24	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1Q:661:LEU:HD11	26:1Q:668:ARG:HE	1.82	0.43
27:1S:371:ASP:OD1	27:1S:372:VAL:N	2.51	0.43
29:1l:6:LYS:HD3	29:1l:13:GLY:HA2	2.00	0.43
22:1x:88:TRP:CZ3	22:1x:98:SER:HB2	2.53	0.43
33:2G:92:TYR:CE1	33:2G:112:TYR:HB3	2.53	0.43
33:2G:133:GLN:HA	33:2G:136:ARG:HD3	1.99	0.43
33:2H:242:ASP:OD1	33:2H:243:HIS:ND1	2.43	0.43
41:2c:316:GLU:O	41:2c:320:LYS:HG2	2.17	0.43
41:2l:218:ARG:O	41:2l:221:ARG:HG3	2.18	0.43
41:2l:385:GLU:H	41:2l:385:GLU:CD	2.25	0.43
44:2w:370:PHE:HB3	45:2z:87:THR:HG23	2.00	0.43
48:3L:429:THR:O	48:3L:433:ARG:HG3	2.17	0.43
49:3Q:31:LEU:CD2	52:3U:208:ASP:OD2	2.65	0.43
57:3g:16:SER:HB2	57:3g:17:PRO:HD3	2.00	0.43
57:3i:119:SER:O	57:3i:123:ARG:NH1	2.51	0.43
58:3m:128:ARG:HB2	58:3m:128:ARG:NH1	2.33	0.43
66:5L:46:PRO:HD3	66:5L:247:TRP:CE3	2.51	0.43
66:5L:229:LYS:HB3	66:5L:256:VAL:CG1	2.48	0.43
1:A:42:LEU:HD12	1:A:356:ILE:HD11	2.01	0.43
1:A:139:LEU:HD13	1:A:188:SER:HB2	2.01	0.43
1:A:251:ARG:HH12	2:AA:105:ARG:NH1	2.16	0.43
2:AA:150:GLY:O	2:AA:154:LEU:HD23	2.17	0.43
1:AB:175:VAL:HG12	1:AB:175:VAL:O	2.18	0.43
2:AC:188:VAL:HG12	2:AC:421:ALA:HB1	2.00	0.43
2:AC:419:SER:O	2:AC:423:GLU:OE1	2.35	0.43
1:AD:21:TRP:CZ3	1:AD:61:PRO:HB3	2.53	0.43
1:AH:66:MET:SD	1:AH:151:LEU:HD22	2.58	0.43
2:AI:340:THR:HG23	2:AI:341:ILE:HG23	1.99	0.43
2:AK:150:GLY:O	2:AK:154:LEU:HD23	2.18	0.43
2:AM:174:SER:OG	2:AM:177:VAL:O	2.26	0.43
1:B:316:LEU:HB2	1:B:366:THR:HG22	2.00	0.43
1:BB:293:MET:SD	1:BB:365:VAL:HG21	2.58	0.43
1:BB:311:LEU:HD23	1:BB:342:ILE:HD12	2.01	0.43
2:BC:109:THR:OG1	2:BC:110:ILE:HD12	2.18	0.43
2:BC:253:THR:HA	2:BC:256:GLN:HG3	1.99	0.43
2:BC:384:ILE:HD12	2:BC:384:ILE:H	1.82	0.43
1:BD:51:PHE:O	1:BD:62:ARG:NH2	2.52	0.43
1:BD:137:HIS:HE1	1:BD:166:THR:HB	1.83	0.43
2:BE:251:ASP:H	2:BE:254:GLU:HB2	1.83	0.43
1:BF:3:GLU:OE2	1:BF:128:ASP:N	2.51	0.43
1:BF:175:VAL:HG11	1:BF:204:ASN:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:234:SER:O	1:BF:241:ARG:NH2	2.51	0.43
2:BG:239:THR:HG23	2:BG:243:ARG:HE	1.83	0.43
1:BH:83:GLN:O	1:CG:281:TYR:OH	2.34	0.43
1:BJ:371:ASN:ND2	1:BJ:373:CYS:SG	2.91	0.43
1:BL:220:PRO:HB3	1:BL:224:ASP:OD1	2.18	0.43
2:BM:174:SER:CB	2:BM:207:GLU:HG3	2.44	0.43
1:BN:32:PRO:HG3	1:BN:81:TYR:CD1	2.53	0.43
1:CA:322:SER:OG	1:CA:325:GLU:OE1	2.31	0.43
2:CB:2:ARG:HA	2:CB:133:GLN:HG3	1.98	0.43
2:CB:296:PHE:CE1	2:CB:377:MET:HE1	2.53	0.43
2:CF:9:ILE:HG22	2:CF:146:GLY:HA2	2.00	0.43
2:CH:139:HIS:O	2:CH:170:THR:HA	2.18	0.43
1:CI:113:ILE:O	1:CI:117:LEU:HD23	2.18	0.43
2:CL:259:LEU:HD11	2:CL:378:ILE:O	2.18	0.43
2:CL:332:ILE:HD12	2:CL:351:PHE:CD2	2.53	0.43
1:CM:20:PHE:CE2	1:CM:24:ILE:HG13	2.53	0.43
1:CM:252:LYS:HA	1:CM:252:LYS:HD3	1.67	0.43
1:CM:396:HIS:HA	1:CM:399:THR:OG1	2.18	0.43
2:D:332:ILE:HD11	2:D:353:CYS:SG	2.58	0.43
2:DB:326:LYS:HG2	1:DC:212:PHE:HE2	1.83	0.43
1:DC:113:ILE:HG12	1:DC:117:LEU:CD2	2.48	0.43
2:DD:326:LYS:HD2	1:DE:220:PRO:HD2	2.00	0.43
2:DD:422:ARG:HH12	2:DD:426:ALA:HB2	1.83	0.43
2:DF:103:TYR:HD2	2:DF:413:MET:HE1	1.83	0.43
1:DG:113:ILE:HA	1:DG:116:VAL:HG12	2.00	0.43
1:DG:371:ASN:OD1	1:DG:372:THR:N	2.51	0.43
1:DK:4:ILE:HG13	1:DK:131:GLN:HB3	2.00	0.43
1:DM:334:GLN:NE2	1:DM:349:ILE:HG22	2.33	0.43
1:E:134:GLN:HA	1:E:165:MET:O	2.19	0.43
1:E:344:TRP:HB3	1:E:430:VAL:HG12	2.00	0.43
2:EA:338:LYS:HZ1	2:EA:340:THR:HG1	1.66	0.43
1:EB:171:PRO:HG3	1:EB:181:GLU:HB3	2.00	0.43
2:EC:98:ASP:O	2:EC:105:ARG:NH1	2.51	0.43
1:ED:14:ASN:ND2	1:ED:66:MET:O	2.34	0.43
2:EE:87:PHE:HB3	2:EE:92:LEU:CD1	2.46	0.43
2:EI:75:VAL:HG13	2:EI:92:LEU:HG	2.00	0.43
2:EI:143:GLY:HA3	71:EI:501:GTP:O3A	2.18	0.43
2:EK:272:TYR:HD1	2:EK:376:CYS:HB2	1.83	0.43
1:F:213:ARG:NH1	1:F:213:ARG:HG3	2.34	0.43
1:F:326:VAL:O	1:F:330:MET:HG2	2.19	0.43
1:FD:372:THR:HG21	1:FD:426:GLN:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FE:9:ILE:HG22	2:FE:146:GLY:HA2	1.99	0.43
1:FF:274:THR:OG1	1:FF:278:SER:OG	2.29	0.43
2:FG:384:ILE:O	2:FG:387:VAL:HG12	2.18	0.43
1:FH:321:MET:HE2	1:FH:363:MET:HE3	2.00	0.43
1:FJ:67:ASP:HB2	1:FJ:73:MET:HE3	2.00	0.43
2:FK:69:ASP:OD2	2:FK:70:LEU:N	2.51	0.43
1:FL:208:TYR:HE1	1:FL:225:LEU:HD11	1.83	0.43
1:GB:272:PRO:HD3	1:GB:364:SER:HA	2.00	0.43
2:GC:58:ALA:HA	17:0n:360:HIS:CE1	2.53	0.43
2:GC:215:ARG:HH12	2:GC:299:ALA:HB1	1.83	0.43
1:GD:257:LEU:O	1:GD:312:THR:OG1	2.34	0.43
1:GD:296:ALA:CB	1:GD:305:PRO:HD2	2.47	0.43
1:GD:325:GLU:OE2	2:GE:221:ARG:HG2	2.18	0.43
2:GE:70:LEU:HD21	2:GE:114:ILE:HG21	1.99	0.43
1:GF:139:LEU:HG	1:GF:168:SER:HB2	2.00	0.43
1:GF:237:THR:O	1:GF:241:ARG:HG3	2.18	0.43
1:GF:270:PHE:CD2	1:GF:273:LEU:HD11	2.52	0.43
1:GH:255:VAL:HG11	2:GI:100:ALA:O	2.19	0.43
1:GH:265:PHE:HB3	1:GH:374:ILE:HD13	2.00	0.43
2:GI:122:ILE:HG21	2:GI:157:LEU:HD21	1.99	0.43
2:GI:278:ALA:N	2:GI:369:ALA:HB2	2.33	0.43
1:GJ:2:ARG:N	1:GJ:129:CYS:O	2.51	0.43
1:GJ:19:LYS:HG2	1:GJ:226:ASN:HB3	2.00	0.43
1:GJ:164:MET:HB3	1:GJ:197:ASP:H	1.82	0.43
1:GJ:325:GLU:OE2	2:GK:221:ARG:HD3	2.18	0.43
2:HA:213:THR:O	2:HA:217:LEU:HB2	2.18	0.43
2:HC:174:SER:HB3	2:HC:177:VAL:O	2.17	0.43
2:HC:324:VAL:O	2:HC:328:VAL:HG23	2.17	0.43
2:HE:353:CYS:HB2	1:HF:177:ASP:HB2	2.01	0.43
1:HF:163:ILE:HA	1:HF:197:ASP:OD2	2.18	0.43
1:HF:299:MET:HE3	1:HF:299:MET:HB2	1.68	0.43
1:HH:273:LEU:HB2	1:HH:292:GLN:HE22	1.82	0.43
1:HH:416:ASN:HA	1:HH:419:VAL:HG12	2.00	0.43
1:HL:129:CYS:SG	2:HM:96:LYS:HG3	2.58	0.43
1:HL:238:CYS:HB2	1:HL:318:ARG:NH1	2.32	0.43
2:IA:395:PHE:CD2	2:IA:422:ARG:HD3	2.53	0.43
1:IB:253:LEU:HD11	1:IB:316:LEU:HD11	1.99	0.43
1:ID:53:GLU:O	2:JD:285:GLN:NE2	2.44	0.43
1:ID:350:LYS:HZ3	2:IE:179:THR:C	2.27	0.43
1:IF:42:LEU:HA	1:IF:45:GLU:HG2	1.99	0.43
2:IG:190:SER:O	2:IG:194:LEU:HD23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IG:219:ILE:HD11	2:IG:367:ASP:HB2	1.99	0.43
2:IG:338:LYS:HG2	2:IG:340:THR:HG22	1.99	0.43
1:IJ:133:PHE:CD1	1:IJ:155:LEU:HD23	2.53	0.43
1:IJ:375:GLN:HB2	1:IJ:419:VAL:HG23	2.00	0.43
1:IJ:427:ASP:OD1	1:IJ:428:ALA:N	2.50	0.43
2:IK:352:LYS:NZ	1:IL:178:THR:HG22	2.32	0.43
1:IL:65:LEU:HD11	1:IL:85:PHE:CD2	2.53	0.43
1:IL:324:LYS:HG2	2:IM:222:PRO:HD2	2.00	0.43
2:J:178:SER:HB2	2:J:183:GLU:OE2	2.18	0.43
1:JA:344:TRP:HB3	1:JA:430:VAL:HG12	2.01	0.43
1:JC:187:LEU:HD11	1:JC:408:PHE:CE2	2.53	0.43
1:JC:377:MET:HG3	1:JC:378:PHE:HD1	1.83	0.43
2:JD:89:PRO:HD2	2:JD:90:GLU:H	1.82	0.43
2:JF:367:ASP:OD1	2:JF:367:ASP:N	2.46	0.43
1:JG:57:GLY:HA3	19:0r:219:ARG:NH2	2.33	0.43
1:JG:172:SER:OG	1:JG:173:PRO:HD2	2.17	0.43
2:JJ:3:GLU:HA	2:JJ:51:THR:HA	2.00	0.43
1:JK:4:ILE:HA	1:JK:132:GLY:O	2.18	0.43
1:JK:240:LEU:HD12	1:JK:249:ASP:HB2	1.99	0.43
1:JM:373:CYS:O	1:JM:376:GLU:HB2	2.18	0.43
1:KA:305:PRO:HA	1:KA:373:CYS:SG	2.58	0.43
2:KB:91:GLN:H	2:KB:121:ARG:HH11	1.66	0.43
1:KE:66:MET:HE3	1:KE:147:MET:HG2	1.99	0.43
2:KF:288:VAL:HG21	2:KF:323:VAL:HG13	2.00	0.43
2:KH:411:GLU:HA	35:2O:9:ILE:HG21	1.99	0.43
1:KI:299:MET:HE1	1:KI:367:PHE:HD2	1.84	0.43
1:KI:322:SER:OG	1:KI:323:THR:N	2.50	0.43
2:KJ:339:ARG:CD	18:0p:216:ARG:HH21	2.30	0.43
1:KK:150:LEU:HD11	1:KK:154:LYS:HE2	2.00	0.43
2:KL:57:GLY:HA3	23:1E:62:ILE:HG22	2.00	0.43
2:KL:79:ARG:HH22	2:KL:94:SER:HB2	1.83	0.43
2:L:1:MET:HE3	2:L:2:ARG:H	1.83	0.43
1:LA:31:ASP:OD1	1:LA:35:THR:N	2.51	0.43
1:LA:197:ASP:N	1:LA:197:ASP:OD2	2.44	0.43
1:LC:203:ASP:HB3	1:LC:301:GLN:HA	2.00	0.43
1:LC:237:THR:HG23	1:LC:241:ARG:HH11	1.84	0.43
1:LE:406:MET:HE2	32:2B:142:TYR:CD2	2.53	0.43
2:LF:203:MET:HG3	2:LF:384:ILE:HD11	2.00	0.43
1:LG:3:GLU:OE1	1:LG:62:ARG:NH2	2.51	0.43
1:LG:187:LEU:HD11	1:LG:408:PHE:HE1	1.82	0.43
2:LH:133:GLN:HB3	2:LH:252:LEU:HD12	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LH:388:PHE:HA	2:LH:391:ILE:HG22	2.00	0.43
1:LI:316:LEU:HB2	1:LI:366:THR:OG1	2.19	0.43
2:LJ:273:ALA:HB3	2:LJ:295:VAL:HG23	1.99	0.43
2:LJ:288:VAL:HA	2:LJ:291:ILE:HG12	1.99	0.43
2:LJ:420:GLU:HA	2:LJ:423:GLU:CD	2.43	0.43
1:LM:260:PHE:HD2	1:LM:263:LEU:HD12	1.83	0.43
1:LM:325:GLU:OE1	2:LN:221:ARG:HD3	2.18	0.43
1:LO:122:LYS:HD3	1:LO:122:LYS:N	2.33	0.43
1:M:256:ASN:HD21	2:MA:101:ASN:HD22	1.65	0.43
1:MB:299:MET:HE2	1:MB:299:MET:HA	2.00	0.43
1:MD:301:GLN:OE1	1:MD:377:MET:HE1	2.19	0.43
2:ME:122:ILE:HG21	2:ME:157:LEU:HD21	2.00	0.43
1:MF:55:SER:C	54:3Z:426:MET:HE1	2.42	0.43
1:MF:345:ILE:CG2	1:MF:348:ASN:HD21	2.21	0.43
2:MG:112:LYS:HD3	2:MG:152:LEU:HD21	2.00	0.43
1:MH:67:ASP:OD1	1:MH:143:THR:HG21	2.18	0.43
1:MH:203:ASP:OD2	1:MH:302:ALA:HB3	2.18	0.43
1:MH:310:TYR:CD2	1:MH:340:TYR:HB3	2.52	0.43
1:ML:171:PRO:HG3	1:ML:181:GLU:OE2	2.18	0.43
1:MN:103:LYS:HA	1:MN:107:THR:HG22	2.00	0.43
1:N:173:PRO:HG2	1:N:174:ARG:NH1	2.33	0.43
2:NA:331:ALA:O	2:NA:335:ILE:HG12	2.19	0.43
2:NA:422:ARG:HH12	2:NA:425:LEU:HB3	1.82	0.43
1:NB:190:HIS:CE1	1:NB:191:GLN:HG2	2.54	0.43
2:NC:301:MET:HE1	2:NC:307:PRO:HG2	2.00	0.43
2:NE:25:CYS:SG	2:NE:86:LEU:HD21	2.57	0.43
1:NH:170:ILE:HG21	1:NH:377:MET:HE3	1.99	0.43
2:NI:19:ALA:HA	2:NI:22:GLU:HG2	1.99	0.43
2:NI:185:TYR:HE2	2:NI:404:PHE:HB2	1.82	0.43
2:NI:267:PHE:O	2:NI:380:ASN:ND2	2.51	0.43
2:NI:271:SER:OG	2:NI:295:VAL:HG13	2.17	0.43
1:NL:259:PRO:HA	2:NM:404:PHE:CD1	2.53	0.43
1:NL:272:PRO:HD3	1:NL:364:SER:HA	1.99	0.43
1:O:141:GLY:O	1:O:184:ASN:ND2	2.51	0.43
1:OB:210:ILE:HD11	1:OB:300:MET:HG2	1.98	0.43
1:OD:189:VAL:HA	1:OD:192:LEU:HB2	1.98	0.43
1:OD:280:GLN:HB3	41:2o:390:GLU:OE2	2.18	0.43
1:OF:2:ARG:N	1:OF:131:GLN:HB2	2.33	0.43
1:OF:232:VAL:HG22	1:OF:366:THR:HG22	2.00	0.43
2:OG:362:VAL:HG11	2:OG:370:LYS:HB2	1.98	0.43
2:OI:22:GLU:O	2:OI:26:LEU:HD12	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OK:347:CYS:CB	1:OL:388:MET:HE3	2.47	0.43
1:P:310:TYR:HE2	1:P:367:PHE:HZ	1.65	0.43
1:PD:303:ALA:HB1	1:PD:373:CYS:SG	2.58	0.43
2:PE:318:MET:HB2	2:PE:376:CYS:SG	2.58	0.43
2:PG:160:ASP:O	59:4a:261:PRO:HA	2.18	0.43
1:PH:322:SER:HB2	2:PI:222:PRO:O	2.18	0.43
1:PH:392:LYS:HD3	58:3m:25:ARG:NH2	2.34	0.43
2:PI:241:SER:HB2	2:PI:250:VAL:H	1.82	0.43
2:PI:301:MET:HE1	2:PI:307:PRO:HG2	2.00	0.43
1:PJ:2:ARG:HH12	2:PK:72:PRO:HG3	1.83	0.43
2:Q:24:PHE:HE1	2:Q:236:SER:HB2	1.82	0.43
1:QA:380:ARG:HG2	1:QA:384:GLN:HE22	1.83	0.43
2:QB:9:ILE:HG22	2:QB:146:GLY:HA2	1.99	0.43
2:QB:259:LEU:HD21	2:QB:316:CYS:HB2	2.00	0.43
1:QC:193:VAL:HG22	1:QC:265:PHE:HE1	1.83	0.43
1:QC:222:PHE:O	1:QC:226:ASN:ND2	2.51	0.43
1:QE:392:LYS:HG2	1:QE:395:LEU:HD22	2.01	0.43
1:QI:344:TRP:CE3	1:QI:345:ILE:HG13	2.53	0.43
1:QK:159:TYR:HB3	1:QK:162:ARG:HG2	1.99	0.43
2:RF:81:GLY:HA3	28:1Y:43:TYR:CE1	2.53	0.43
2:RH:6:CYS:O	2:RH:65:CYS:HA	2.18	0.43
2:RH:205:ASP:OD1	2:RH:303:THR:HA	2.18	0.43
2:RH:282:TYR:CD2	41:2e:259:LEU:HD11	2.54	0.43
2:RH:422:ARG:HD2	2:RH:422:ARG:HA	1.76	0.43
1:RI:21:TRP:CE3	1:RI:61:PRO:HB3	2.52	0.43
1:RI:60:VAL:HG11	1:RI:86:ARG:HB2	2.00	0.43
1:RK:23:VAL:O	1:RK:27:GLU:OE1	2.35	0.43
1:RK:193:VAL:HG12	1:RK:265:PHE:HE1	1.82	0.43
2:RL:97:GLU:CG	2:RL:105:ARG:HH22	2.25	0.43
2:SA:75:VAL:HA	2:SA:78:VAL:HG12	1.99	0.43
1:SB:334:GLN:NE2	1:SB:349:ILE:H	2.16	0.43
2:SE:175:PRO:O	2:SE:394:LYS:NZ	2.51	0.43
2:SE:197:HIS:CE1	58:3m:156:LYS:HE3	2.53	0.43
1:SF:377:MET:HB3	1:SF:377:MET:HE3	1.75	0.43
2:SG:111:GLY:HA2	2:SG:114:ILE:HG22	2.01	0.43
2:SG:265:ILE:HG23	2:SG:432:TYR:CZ	2.54	0.43
2:SI:71:GLU:OE1	2:SI:73:THR:OG1	2.35	0.43
2:SI:259:LEU:HD21	2:SI:268:VAL:HG11	2.00	0.43
1:SJ:51:PHE:HB3	1:SJ:59:TYR:HB3	2.00	0.43
1:SJ:314:SER:HB2	1:SJ:350:LYS:HE3	1.99	0.43
2:SK:123:ARG:HD2	61:3x:106:HIS:CE1	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:331:LEU:HD22	2:TA:177:VAL:HG23	2.00	0.43
2:TA:155:GLU:HA	2:TA:197:HIS:ND1	2.32	0.43
1:TB:231:ALA:O	1:TB:234:SER:OG	2.28	0.43
2:TG:122:ILE:HG21	2:TG:157:LEU:HD21	2.00	0.43
2:TG:326:LYS:HD2	1:TH:212:PHE:HE2	1.83	0.43
2:TK:49:PHE:CD2	2:TK:61:HIS:HD2	2.36	0.43
2:TK:70:LEU:HD22	2:TK:110:ILE:HG22	1.99	0.43
1:TL:337:ASN:HD21	61:3x:126:ARG:HH22	1.66	0.43
1:TL:417:ASP:N	1:TL:417:ASP:OD2	2.50	0.43
1:UB:66:MET:HE2	1:UB:147:MET:HG2	2.00	0.43
2:UC:291:ILE:HD12	2:UC:375:VAL:HG23	2.00	0.43
1:UD:324:LYS:HD2	2:UE:222:PRO:HG2	2.00	0.43
2:UE:271:SER:OG	2:UE:377:MET:HE2	2.18	0.43
2:UG:31:GLN:HG2	2:UG:35:SER:O	2.18	0.43
1:UH:311:LEU:HB2	1:UH:370:ASN:O	2.18	0.43
1:UJ:316:LEU:HB2	1:UJ:366:THR:CG2	2.48	0.43
2:UK:123:ARG:NH2	2:VK:297:GLU:HG3	2.33	0.43
1:UL:68:LEU:HD12	1:UL:97:ALA:HB2	2.00	0.43
2:VA:369:ALA:HA	8:0F:147:GLN:HE22	1.83	0.43
1:VD:15:GLN:O	1:VD:19:LYS:HG2	2.19	0.43
1:VD:186:THR:HG22	1:VD:415:MET:SD	2.58	0.43
1:VD:221:THR:O	1:VD:225:LEU:HG	2.18	0.43
2:VK:3:GLU:HG2	2:VK:64:ARG:CZ	2.48	0.43
1:VL:238:CYS:CB	1:VL:318:ARG:HE	2.31	0.43
1:VL:268:MET:HA	1:VL:367:PHE:O	2.19	0.43
2:VM:230:LEU:HD21	2:VM:368:LEU:HD21	2.00	0.43
2:WA:340:THR:HG23	2:WA:341:ILE:HG23	2.00	0.43
1:WB:66:MET:HE3	1:WB:116:VAL:HG11	2.00	0.43
1:WD:200:MET:HG2	1:WD:268:MET:SD	2.58	0.43
1:WD:210:ILE:O	1:WD:214:THR:OG1	2.22	0.43
2:WE:271:SER:OG	2:WE:295:VAL:HG13	2.18	0.43
1:WJ:7:CYS:HB3	1:WJ:66:MET:HE3	1.99	0.43
2:WK:251:ASP:H	2:WK:254:GLU:HG3	1.83	0.43
3:XA:156:VAL:HG11	3:XA:162:ILE:HD11	2.01	0.43
3:XB:78:MET:HE1	3:XB:89:PHE:CD2	2.53	0.43
4:XM:150:VAL:HA	4:XM:153:LEU:HG	2.00	0.43
5:XP:158:GLU:OE1	5:XP:160:SER:OG	2.30	0.43
4:XQ:263:MET:HE2	4:XQ:263:MET:HB3	1.91	0.43
4:XR:137:CYS:HB3	4:XR:143:THR:HG23	2.00	0.43
4:XR:185:LEU:HD13	4:XR:225:LEU:HB2	1.99	0.43
6:0A:154:LYS:NZ	14:0d:221:VAL:HG22	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:0I:187:ARG:O	8:0I:191:GLN:OE1	2.37	0.43
8:0I:297:ARG:HA	8:0I:300:ARG:HD2	2.00	0.43
9:0L:308:PHE:HE2	33:2F:3:SER:HB3	1.83	0.43
9:0M:87:GLN:CG	9:0M:105:LEU:HD12	2.48	0.43
9:0N:131:ASP:OD2	9:0N:133:THR:HG22	2.19	0.43
9:0N:563:ARG:NH2	9:0N:626:ILE:O	2.51	0.43
10:0R:68:LEU:HD21	11:0U:245:GLU:OE2	2.18	0.43
14:0c:26:GLY:C	14:0c:30:LYS:HZ1	2.26	0.43
14:0c:66:GLU:HB3	14:0c:69:LYS:NZ	2.33	0.43
16:0k:22:ARG:HB2	16:0k:24:ILE:CD1	2.46	0.43
16:0k:153:PRO:O	16:0k:157:LEU:HG	2.18	0.43
19:0r:264:ILE:HG12	23:1E:181:GLN:OE1	2.19	0.43
21:0x:431:PHE:CD2	21:0x:436:GLU:HG3	2.54	0.43
21:0x:432:LEU:N	21:0x:436:GLU:OE2	2.39	0.43
23:1E:383:ASN:OD1	23:1E:384:ALA:N	2.51	0.43
24:1K:647:ARG:HH22	24:1K:648:MET:HE2	1.83	0.43
24:1K:733:MET:O	24:1K:737:ASN:ND2	2.36	0.43
27:1S:147:PHE:CD1	27:1S:173:ARG:HG3	2.53	0.43
27:1S:649:ILE:HD12	27:1S:686:TYR:CG	2.53	0.43
28:1V:18:CYS:SG	28:1V:19:VAL:N	2.91	0.43
28:1V:44:ARG:HG2	28:1V:44:ARG:HH11	1.83	0.43
32:2C:120:ASP:O	32:2C:124:THR:HG23	2.18	0.43
33:2I:92:TYR:CE1	33:2I:112:TYR:HB3	2.53	0.43
35:2N:235:TYR:CE1	35:2N:237:LYS:HE3	2.54	0.43
38:2U:220:LYS:HD2	38:2U:239:LEU:O	2.18	0.43
38:2U:334:LEU:HB2	38:2U:337:GLU:HG3	1.99	0.43
41:2o:161:TYR:CE1	41:2o:165:ARG:HG2	2.53	0.43
43:2t:307:THR:OG1	43:2t:310:GLU:OE1	2.36	0.43
44:2v:23:ARG:HA	44:2v:23:ARG:NE	2.33	0.43
44:2v:235:GLN:HA	44:2v:238:ARG:HG2	2.00	0.43
44:2w:198:ILE:HD13	44:2w:206:PRO:HB3	1.99	0.43
46:3B:367:ALA:HB3	46:3B:369:ARG:HE	1.83	0.43
49:3Q:490:CYS:O	49:3Q:493:LEU:HG	2.17	0.43
57:3f:36:GLU:O	57:3f:40:GLU:N	2.42	0.43
57:3f:162:GLU:O	57:3f:166:LYS:HG2	2.18	0.43
61:3x:109:GLU:O	61:3x:111:PRO:HD3	2.18	0.43
59:4O:270:ARG:O	59:4O:274:GLN:HG2	2.19	0.43
65:5H:126:ARG:HE	65:5H:130:ILE:HG13	1.82	0.43
67:5P:72:LYS:NZ	67:5P:110:VAL:HG23	2.33	0.43
2:AA:21:TRP:NE1	2:AA:65:CYS:SG	2.92	0.43
2:AA:63:PRO:HB2	2:AA:65:CYS:SG	2.57	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:313:MET:HG2	2:AA:344:VAL:HG21	1.99	0.43
1:AB:151:LEU:HG	1:AB:155:LEU:HD13	2.00	0.43
1:AB:350:LYS:NZ	1:AB:351:SER:O	2.48	0.43
1:AD:239:CYS:HB3	1:AD:248:SER:H	1.82	0.43
1:AF:5:VAL:HG12	1:AF:130:LEU:HD11	2.01	0.43
2:AI:46:ASP:N	2:AI:46:ASP:OD1	2.51	0.43
2:AI:53:PHE:HB3	2:AI:61:HIS:HB3	2.00	0.43
2:AI:246:GLY:H	2:AI:249:ASN:HD21	1.67	0.43
1:AJ:125:GLU:OE1	1:BJ:291:GLN:NE2	2.51	0.43
1:AJ:315:ALA:HB1	1:AJ:317:PHE:CE1	2.53	0.43
2:AK:122:ILE:HG21	2:AK:157:LEU:HD21	2.00	0.43
1:AN:141:GLY:O	1:AN:145:SER:OG	2.36	0.43
2:BC:324:VAL:HG12	2:BC:326:LYS:H	1.83	0.43
2:BE:2:ARG:NH1	1:BF:70:PRO:HG2	2.34	0.43
2:BE:269:LEU:HD23	2:BE:301:MET:HE1	2.00	0.43
2:BG:219:ILE:CG2	2:BG:222:PRO:HG3	2.48	0.43
1:BH:169:VAL:HG22	1:BH:202:ILE:HB	2.00	0.43
1:BL:331:LEU:HB2	2:BM:177:VAL:CG2	2.47	0.43
2:BM:231:ILE:O	2:BM:235:VAL:HG23	2.19	0.43
2:C:180:ALA:HB3	2:C:183:GLU:HB2	2.00	0.43
1:CA:267:MET:HE3	1:CA:267:MET:HB2	1.71	0.43
2:CB:413:MET:SD	2:CB:417:GLU:HG2	2.58	0.43
2:CD:188:VAL:O	2:CD:191:THR:HG22	2.18	0.43
2:CF:384:ILE:O	2:CF:387:VAL:HG22	2.18	0.43
2:CH:40:LYS:HZ1	24:1I:256:ARG:HD3	1.83	0.43
2:CH:259:LEU:HD11	2:CH:378:ILE:O	2.18	0.43
1:CI:252:LYS:HD2	2:CJ:101:ASN:ND2	2.33	0.43
1:CI:324:LYS:HD2	2:CJ:222:PRO:HD2	1.99	0.43
2:CJ:345:ASP:OD2	2:CJ:346:TRP:N	2.51	0.43
2:CL:151:ALA:O	2:CL:155:GLU:HG3	2.18	0.43
2:CL:276:VAL:HG23	2:CL:369:ALA:HB3	2.01	0.43
2:CL:326:LYS:HD2	1:CM:220:PRO:HG2	2.01	0.43
1:CM:175:VAL:HG12	1:CM:175:VAL:O	2.19	0.43
2:D:11:GLN:NE2	71:D:501:GTP:O3A	2.52	0.43
2:D:326:LYS:HE2	1:DA:212:PHE:CZ	2.53	0.43
1:DA:134:GLN:HE21	1:DA:167:PHE:HE2	1.66	0.43
2:DD:346:TRP:CE3	2:DD:347:CYS:HB2	2.54	0.43
1:DG:20:PHE:HA	1:DG:230:ALA:HB1	2.00	0.43
1:DI:284:LEU:HD21	1:DI:363:MET:HG2	2.00	0.43
2:DJ:173:PRO:HG3	2:DJ:183:GLU:HG2	1.99	0.43
1:DK:159:TYR:HB3	1:DK:162:ARG:HG2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DK:324:LYS:HG2	2:DL:222:PRO:O	2.18	0.43
1:DM:236:VAL:HA	1:DM:316:LEU:HD12	2.00	0.43
2:EA:316:CYS:SG	2:EA:318:MET:HE3	2.57	0.43
1:EB:202:ILE:HD11	1:EB:268:MET:SD	2.58	0.43
2:EC:331:ALA:O	2:EC:335:ILE:HG12	2.18	0.43
1:EF:177:ASP:N	1:EF:177:ASP:OD2	2.51	0.43
1:EF:247:ASN:O	1:EF:252:LYS:NZ	2.51	0.43
2:EG:136:MET:HE1	2:EG:235:VAL:HG13	1.99	0.43
2:EG:169:TYR:HA	2:EG:202:THR:HB	1.98	0.43
1:EH:301:GLN:NE2	1:EH:303:ALA:HB3	2.28	0.43
1:EJ:12:CYS:SG	1:EJ:138:SER:HB3	2.58	0.43
1:EJ:331:LEU:HD11	2:EK:176:GLN:HB3	2.00	0.43
2:EK:69:ASP:OD2	2:EK:71:GLU:N	2.39	0.43
1:F:375:GLN:NE2	1:F:423:GLN:HE21	2.16	0.43
2:FC:328:VAL:O	2:FC:332:ILE:HG23	2.18	0.43
2:FE:265:ILE:HG23	2:FE:432:TYR:CE1	2.54	0.43
2:FG:117:LEU:O	2:FG:121:ARG:HG2	2.17	0.43
1:FH:40:SER:HB3	28:4W:142:TYR:HD2	1.84	0.43
2:FK:142:GLY:CA	2:FK:183:GLU:HG3	2.48	0.43
1:FL:320:ARG:NH1	28:4W:218:GLN:O	2.49	0.43
2:GA:219:ILE:O	2:GA:222:PRO:HD3	2.17	0.43
2:GA:223:SER:HB3	2:GA:225:THR:HG22	2.00	0.43
1:GB:19:LYS:HG3	1:GB:226:ASN:HB2	1.99	0.43
2:GC:136:MET:HE1	2:GC:239:THR:HG22	1.99	0.43
1:GD:113:ILE:HA	1:GD:116:VAL:HB	1.99	0.43
1:GD:323:THR:OG1	2:GE:210:TYR:OH	2.30	0.43
1:GH:21:TRP:CZ2	1:GH:63:ALA:HB2	2.54	0.43
2:GI:316:CYS:SG	2:GI:318:MET:HE3	2.58	0.43
1:GL:112:LEU:O	1:GL:116:VAL:HG23	2.18	0.43
2:HC:275:VAL:HG23	2:HC:368:LEU:HD11	1.99	0.43
1:HF:330:MET:O	1:HF:334:GLN:HG2	2.18	0.43
1:HF:339:SER:CB	64:5C:91:LYS:HE3	2.48	0.43
2:HG:88:ASN:HD22	2:HG:91:GLN:NE2	2.16	0.43
1:HH:80:PRO:CD	1:HH:81:TYR:N	2.80	0.43
2:HK:93:VAL:HG12	2:HK:114:ILE:HD11	2.00	0.43
2:HK:270:THR:HG23	2:HK:302:LEU:HB2	2.00	0.43
2:HM:271:SER:HB2	2:HM:301:MET:HA	1.99	0.43
1:I:63:ALA:O	1:I:89:ASN:ND2	2.51	0.43
2:IA:88:ASN:O	2:IA:92:LEU:HD23	2.18	0.43
1:ID:152:ILE:CD1	1:ID:164:MET:HG2	2.48	0.43
1:IF:41:ASP:O	1:IF:45:GLU:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IF:52:ASP:HA	47:3D:38:TYR:CE1	2.52	0.43
1:IH:289:LEU:HD23	1:IH:289:LEU:HA	1.88	0.43
2:IK:15:GLN:HB3	2:IK:228:ASN:ND2	2.32	0.43
1:IL:19:LYS:HA	1:IL:22:GLU:HG2	2.00	0.43
1:JA:13:GLY:HA2	1:JA:16:ILE:HG22	2.00	0.43
1:JA:267:MET:CE	1:JA:299:MET:HG2	2.48	0.43
1:JC:78:ALA:HA	17:0m:12:ARG:HH12	1.83	0.43
1:JC:262:ARG:HG3	1:JC:262:ARG:HH11	1.83	0.43
2:JD:262:TYR:HB3	60:3r:126:TYR:CZ	2.53	0.43
1:JE:8:GLN:CD	1:JE:17:GLY:HA3	2.43	0.43
1:JE:239:CYS:HB3	1:JE:247:ASN:HB2	2.01	0.43
1:JG:280:GLN:NE2	47:3D:139:LEU:O	2.51	0.43
2:JH:295:VAL:HG21	2:JH:375:VAL:HG13	2.00	0.43
1:JI:174:ARG:HD3	1:JI:205:GLU:HG3	2.00	0.43
2:JJ:70:LEU:HD12	2:JJ:99:ALA:HB2	1.99	0.43
1:JK:45:GLU:CD	1:JK:46:ARG:HG2	2.43	0.43
2:K:11:GLN:N	71:K:501:GTP:O1A	2.51	0.43
2:K:277:SER:OG	2:K:278:ALA:N	2.51	0.43
2:KB:26:LEU:HD12	2:KB:363:VAL:HG12	1.99	0.43
1:KC:326:VAL:HG11	1:KC:353:ILE:HD11	2.01	0.43
2:KD:271:SER:OG	2:KD:377:MET:HB3	2.18	0.43
1:KE:197:ASP:OD2	1:KE:198:GLU:N	2.51	0.43
2:KF:234:VAL:HG13	2:KF:376:CYS:SG	2.58	0.43
2:KF:301:MET:HG2	2:KF:303:THR:H	1.82	0.43
1:KG:208:TYR:CE2	1:KG:225:LEU:HD11	2.53	0.43
2:KH:271:SER:HB3	2:KH:301:MET:HA	2.00	0.43
2:KH:313:MET:HG2	2:KH:344:VAL:HG11	1.99	0.43
1:KI:294:PHE:HE2	1:KI:341:PHE:HZ	1.64	0.43
2:KJ:215:ARG:HD2	2:KJ:299:ALA:HB1	2.01	0.43
1:KK:345:ILE:HG23	2:KL:398:MET:HE1	2.00	0.43
2:KL:212:LEU:O	2:KL:216:SER:HB2	2.18	0.43
1:KM:73:MET:HE1	1:KM:91:ILE:O	2.17	0.43
1:KM:167:PHE:CZ	1:KM:233:MET:HG2	2.54	0.43
2:KN:253:THR:HA	2:KN:256:GLN:HB3	1.99	0.43
2:L:288:VAL:HA	2:L:291:ILE:HG12	2.00	0.43
1:LE:156:ARG:HD3	1:LE:164:MET:HG3	2.00	0.43
1:LE:187:LEU:HD11	1:LE:408:PHE:HE1	1.83	0.43
1:LE:304:ASP:HB3	35:2N:211:TYR:HE2	1.83	0.43
2:LF:118:ALA:O	2:LF:122:ILE:HG12	2.18	0.43
1:LG:54:SER:HB3	1:LG:58:ARG:HG3	1.98	0.43
1:LG:110:ALA:O	1:LG:113:ILE:HG22	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LG:244:GLY:HA3	1:LG:354:CYS:HA	2.00	0.43
2:LH:42:ILE:HG22	40:2Z:324:ARG:NE	2.32	0.43
2:LH:306:ASP:OD2	35:2O:39:ARG:NH1	2.39	0.43
1:LI:309:ARG:NH1	1:LI:341:PHE:O	2.51	0.43
2:LL:90:GLU:HB2	2:LL:121:ARG:HE	1.82	0.43
1:LM:262:ARG:HB2	1:LM:421:GLU:HG2	2.00	0.43
1:LM:316:LEU:HG	1:LM:352:SER:HB2	2.00	0.43
2:LN:339:ARG:NH2	22:1y:54:LEU:HD21	2.32	0.43
1:LO:286:VAL:HG22	1:LO:363:MET:HE1	1.99	0.43
1:M:72:THR:O	1:M:76:VAL:HG23	2.18	0.43
1:M:100:ASN:HB3	1:M:103:LYS:HB3	1.99	0.43
1:MD:309:ARG:NH2	1:MD:342:ILE:HG22	2.33	0.43
1:MD:343:GLU:HB2	1:MD:430:VAL:HG11	2.01	0.43
1:MD:375:GLN:H	1:MD:375:GLN:HG3	1.64	0.43
2:ME:246:GLY:HA3	2:ME:356:ASN:HA	2.00	0.43
1:MF:20:PHE:HZ	1:MF:50:TYR:CZ	2.36	0.43
1:MF:141:GLY:O	1:MF:145:SER:OG	2.28	0.43
1:MF:317:PHE:CE2	1:MF:326:VAL:HG23	2.53	0.43
2:MG:345:ASP:OD1	2:MG:346:TRP:N	2.52	0.43
2:MG:370:LYS:H	23:1A:70:GLN:HE22	1.64	0.43
1:MH:112:LEU:HD23	1:MH:147:MET:HE1	2.01	0.43
2:MI:109:THR:OG1	2:MI:110:ILE:HD12	2.18	0.43
2:MI:209:ILE:HG21	2:MI:227:VAL:HG13	1.99	0.43
1:MJ:282:ARG:HH12	1:MJ:292:GLN:HE21	1.66	0.43
1:MJ:386:THR:HG23	33:2H:137:LEU:HD13	2.00	0.43
2:MK:343:PHE:HB2	6:0A:82:PHE:CE2	2.52	0.43
1:ML:143:THR:O	1:ML:147:MET:HB3	2.17	0.43
1:ML:179:VAL:O	1:ML:388:MET:HE1	2.18	0.43
1:ML:191:GLN:O	1:ML:195:ASN:ND2	2.42	0.43
1:ML:232:VAL:HG21	1:ML:300:MET:SD	2.59	0.43
2:MM:385:ALA:HB2	2:MM:432:TYR:HB3	2.00	0.43
1:N:213:ARG:NH1	1:N:297:LYS:HB2	2.33	0.43
2:NA:56:THR:C	2:NA:58:ALA:H	2.26	0.43
2:NA:213:THR:HA	2:NA:217:LEU:HD23	2.00	0.43
1:NB:31:ASP:OD2	1:NB:37:GLN:NE2	2.52	0.43
1:NB:171:PRO:HG3	1:NB:181:GLU:HB3	1.99	0.43
2:NE:225:THR:HG22	2:NE:229:ARG:NH1	2.34	0.43
1:NF:31:ASP:OD2	1:NF:37:GLN:NE2	2.52	0.43
1:NF:159:TYR:HB3	1:NF:162:ARG:HG2	2.00	0.43
1:NF:175:VAL:O	1:NF:175:VAL:HG12	2.18	0.43
2:NK:60:LYS:HD2	2:OK:283:HIS:CD2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:257:LEU:HD12	1:O:312:THR:HG23	1.99	0.43
2:OA:115:VAL:HG23	2:OA:153:LEU:HD22	2.00	0.43
2:OA:195:LEU:HD13	2:OA:267:PHE:HE1	1.82	0.43
1:OB:113:ILE:HG13	1:OB:117:LEU:HD23	2.00	0.43
1:OB:247:ASN:HD22	2:OC:73:THR:CG2	2.31	0.43
2:OC:53:PHE:HB3	2:OC:61:HIS:HB3	2.00	0.43
2:OC:133:GLN:HG2	2:OC:252:LEU:HD23	2.00	0.43
1:OD:280:GLN:HB3	41:2o:390:GLU:CD	2.43	0.43
1:OF:309:ARG:H	1:OF:372:THR:HG1	1.62	0.43
2:OG:70:LEU:HD12	2:OG:99:ALA:HB2	2.00	0.43
1:OH:21:TRP:CZ2	1:OH:63:ALA:HB2	2.53	0.43
1:OH:32:PRO:HG3	1:OH:81:TYR:CD1	2.53	0.43
1:OH:68:LEU:HB3	1:OH:95:SER:O	2.19	0.43
1:OJ:200:MET:HE3	1:OJ:200:MET:HB3	1.69	0.43
2:OM:367:ASP:OD1	2:OM:367:ASP:N	2.51	0.43
2:PA:348:PRO:HG2	1:PB:384:GLN:OE1	2.18	0.43
1:PF:17:GLY:HA2	1:PF:20:PHE:HB3	2.00	0.43
1:PF:21:TRP:CZ3	1:PF:61:PRO:HB3	2.53	0.43
2:PG:84:ARG:HH22	22:1x:255:ASN:HB2	1.83	0.43
1:PL:156:ARG:NH2	1:PL:197:ASP:HB3	2.33	0.43
2:PM:75:VAL:O	2:PM:79:ARG:HG3	2.19	0.43
2:Q:267:PHE:HB2	2:Q:384:ILE:HG21	2.01	0.43
1:QA:73:MET:HG2	1:QA:92:PHE:HB3	1.99	0.43
1:QC:19:LYS:HG3	1:QC:226:ASN:HB2	1.99	0.43
1:QC:267:MET:HE1	1:QC:299:MET:HG2	2.00	0.43
1:QE:134:GLN:HA	1:QE:165:MET:O	2.18	0.43
1:QG:380:ARG:HG3	1:QG:384:GLN:HE22	1.84	0.43
2:QH:187:CYS:SG	2:QH:391:ILE:HD13	2.58	0.43
2:QH:188:VAL:O	2:QH:191:THR:HG22	2.18	0.43
2:QH:387:VAL:HG12	2:QH:390:ARG:HH21	1.82	0.43
2:QJ:240:ALA:O	2:QJ:356:ASN:ND2	2.51	0.43
1:QK:46:ARG:NH2	2:QL:76:ASP:OD2	2.31	0.43
1:QK:229:VAL:HG11	69:QK:500:GDP:O2A	2.19	0.43
2:QL:166:LYS:O	2:QL:199:ASP:HB2	2.19	0.43
1:RA:87:PRO:HD3	1:S:281:TYR:HD1	1.82	0.43
2:RB:234:VAL:HG21	2:RB:302:LEU:CD2	2.47	0.43
2:RB:271:SER:OG	2:RB:377:MET:HB3	2.18	0.43
2:RB:326:LYS:HD2	1:RC:212:PHE:CZ	2.53	0.43
1:RI:8:GLN:OE1	1:RI:17:GLY:HA3	2.17	0.43
1:RK:266:PHE:CD2	1:RK:370:ASN:ND2	2.86	0.43
2:RL:213:THR:HA	2:RL:217:LEU:HD23	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:97:ALA:O	1:S:103:LYS:HE3	2.19	0.43
1:SD:105:HIS:CD2	1:SD:150:LEU:HD12	2.53	0.43
1:SD:252:LYS:HG2	2:SE:100:ALA:HA	1.98	0.43
2:SE:33:ASP:OD1	2:SE:34:GLY:N	2.51	0.43
2:SE:112:LYS:HD2	2:SE:152:LEU:HD21	2.00	0.43
2:SG:392:ASP:OD1	2:SG:393:HIS:N	2.51	0.43
2:SI:205:ASP:N	2:SI:205:ASP:OD2	2.50	0.43
2:SI:278:ALA:CB	41:2c:316:GLU:CD	2.90	0.43
2:SK:66:LEU:HD22	2:SK:122:ILE:HG13	2.00	0.43
1:TB:283:GLY:O	1:TB:288:GLU:HG3	2.17	0.43
1:TB:372:THR:HG21	1:TB:426:GLN:HB2	1.99	0.43
1:TJ:175:VAL:O	1:TJ:175:VAL:HG12	2.18	0.43
1:TJ:274:THR:HG21	1:TJ:282:ARG:HD3	2.00	0.43
2:TK:180:ALA:HB3	2:TK:183:GLU:HB2	1.99	0.43
2:TK:372:GLN:HE21	21:0x:469:ILE:HG13	1.82	0.43
1:U:153:SER:HA	1:U:195:ASN:HD22	1.84	0.43
1:UB:50:TYR:CD2	1:UB:241:ARG:HD3	2.52	0.43
1:UF:208:TYR:CE2	1:UF:225:LEU:HD11	2.53	0.43
1:UF:296:ALA:HB2	1:UF:306:ARG:HH12	1.82	0.43
2:UG:319:TYR:CD2	2:UG:323:VAL:HG11	2.53	0.43
2:UG:419:SER:O	2:UG:423:GLU:OE1	2.36	0.43
1:UH:242:PHE:HB2	1:UH:354:CYS:SG	2.58	0.43
1:UH:309:ARG:HG2	1:UH:342:ILE:HG12	1.99	0.43
1:UH:377:MET:HG2	1:UH:380:ARG:HE	1.83	0.43
2:UI:9:ILE:HG22	2:UI:146:GLY:HA2	2.00	0.43
2:UI:182:VAL:HG22	2:UI:185:TYR:HB2	2.00	0.43
2:UK:115:VAL:HG21	2:UK:152:LEU:HG	2.00	0.43
1:V:14:ASN:HD22	1:V:72:THR:CG2	2.31	0.43
2:VA:384:ILE:O	2:VA:387:VAL:HG12	2.18	0.43
1:VB:49:VAL:HG12	1:VB:50:TYR:CD2	2.54	0.43
1:VD:172:SER:HA	1:VD:380:ARG:NH1	2.33	0.43
1:VD:240:LEU:HD11	1:VD:250:LEU:HD23	1.99	0.43
1:VF:273:LEU:H	1:VF:292:GLN:HE22	1.65	0.43
2:VG:209:ILE:HG12	2:VG:302:LEU:HD12	2.00	0.43
2:VK:388:PHE:HD2	2:VK:432:TYR:HE2	1.67	0.43
1:W:276:ARG:HH21	14:0c:327:VAL:CG2	2.30	0.43
2:WA:381:SER:O	2:WA:384:ILE:HG12	2.17	0.43
2:WC:328:VAL:HG11	2:WC:355:ILE:HD11	2.00	0.43
1:WD:9:ALA:HB3	1:WD:137:HIS:HB3	2.00	0.43
2:WE:35:SER:HB3	2:WE:60:LYS:NZ	2.34	0.43
2:WE:328:VAL:HG21	2:WE:355:ILE:HD11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:WH:8:GLN:CD	1:WH:17:GLY:HA3	2.43	0.43
1:WH:167:PHE:CE2	1:WH:233:MET:HG2	2.53	0.43
1:WJ:40:SER:HB3	1:WJ:43:GLN:HG3	1.99	0.43
1:WJ:67:ASP:OD1	1:WJ:68:LEU:N	2.51	0.43
2:WK:326:LYS:HD2	1:WL:212:PHE:CZ	2.53	0.43
3:XE:164:ARG:HD3	3:XE:166:TYR:CD1	2.54	0.43
4:XO:143:THR:HG22	4:XO:144:VAL:N	2.34	0.43
5:XP:304:LYS:NZ	5:XP:308:PRO:O	2.48	0.43
4:XR:149:GLU:OE2	4:XR:151:GLU:HG3	2.18	0.43
6:0A:58:LEU:HG	6:0A:74:ILE:HD11	2.00	0.43
7:0C:239:PRO:HA	7:0C:242:TRP:CD2	2.53	0.43
7:0D:17:GLN:HB3	38:2U:211:LEU:HB3	2.00	0.43
9:0L:624:LEU:HD23	9:0L:624:LEU:HA	1.90	0.43
9:0O:92:ILE:HB	9:0O:102:HIS:HB2	2.00	0.43
9:0O:279:ASN:HB3	9:0O:314:PHE:CD1	2.54	0.43
10:0S:378:ARG:HG3	10:0S:378:ARG:HH11	1.83	0.43
12:0W:100:ILE:HB	12:0W:151:VAL:HG22	2.00	0.43
13:0Y:141:ASN:HB3	13:0Y:144:VAL:HG22	2.00	0.43
14:0c:221:VAL:HB	14:0c:222:PRO:HD2	2.01	0.43
14:0c:274:HIS:CE1	14:0c:278:ILE:HD11	2.54	0.43
16:0k:724:ARG:NH2	16:0k:731:GLU:HB3	2.25	0.43
16:0k:805:ARG:HD3	16:0k:821:LEU:HD13	1.98	0.43
17:0m:133:HIS:ND1	17:0m:137:MET:SD	2.91	0.43
17:0n:74:TYR:CD1	17:0n:75:PRO:HD2	2.54	0.43
20:0u:212:VAL:HG21	20:0u:263:LEU:HD23	1.99	0.43
20:0u:233:ASN:OD1	20:0u:234:ASP:N	2.39	0.43
21:0w:122:LYS:O	21:0w:126:GLU:OE1	2.36	0.43
22:0z:240:LEU:HD21	31:1s:252:GLU:HG2	2.01	0.43
23:1A:294:TYR:OH	23:1A:297:MET:HG2	2.18	0.43
23:1E:153:ASP:HB3	23:1E:156:ASN:CG	2.43	0.43
24:1I:130:SER:HB3	24:1I:149:ARG:HB3	2.01	0.43
24:1J:188:ARG:O	24:1J:192:LYS:HG2	2.18	0.43
24:1K:536:GLN:HE21	24:1K:540:GLN:HG3	1.83	0.43
24:1K:641:GLU:CD	24:1K:641:GLU:H	2.26	0.43
27:1S:272:SER:HA	27:1S:275:PHE:HB3	2.00	0.43
27:1T:656:THR:OG1	27:1T:668:ARG:NH2	2.43	0.43
27:1T:810:PHE:O	27:1T:840:ARG:NH1	2.51	0.43
28:1c:6:SER:O	28:1c:10:LEU:HG	2.18	0.43
30:1o:49:GLU:HG2	30:1o:52:ARG:HH21	1.83	0.43
31:1r:168:ALA:CB	22:1x:193:ARG:HH12	2.31	0.43
33:2G:1:MET:N	33:2G:106:LEU:O	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:2S:60:ARG:NH2	37:2S:122:CYS:SG	2.91	0.43
38:2U:169:SER:HA	38:2U:173:PHE:HD2	1.83	0.43
41:2c:255:ALA:O	41:2c:259:LEU:HD23	2.17	0.43
41:2e:472:MET:HE3	41:2e:476:MET:SD	2.58	0.43
41:2k:165:ARG:O	41:2k:169:GLU:HG3	2.18	0.43
42:2r:163:SER:HA	42:2r:166:MET:CE	2.48	0.43
44:2v:316:PHE:CE2	44:2v:375:TYR:HA	2.52	0.43
44:2w:227:TRP:CG	44:2w:290:ARG:HD2	2.53	0.43
47:3D:295:LEU:HD22	47:3D:379:GLU:HG3	2.00	0.43
59:4O:201:TYR:N	59:4O:204:GLU:OE1	2.52	0.43
64:5C:93:LYS:HB3	65:5H:83:TYR:OH	2.18	0.43
64:5C:137:ASP:OD1	68:5T:108:THR:OG1	2.29	0.43
1:A:164:MET:HE2	1:A:164:MET:HB2	1.93	0.43
1:A:234:SER:O	1:A:241:ARG:NH2	2.50	0.43
2:AA:152:LEU:O	2:AA:156:ARG:HG2	2.19	0.43
2:AA:170:THR:HB	2:AA:172:TYR:CE2	2.53	0.43
1:AD:99:ASN:HD21	1:AD:178:THR:CG2	2.30	0.43
1:AD:282:ARG:NH1	1:AD:292:GLN:OE1	2.50	0.43
2:AE:122:ILE:HG21	2:AE:157:LEU:HD21	2.00	0.43
2:AE:420:GLU:OE2	3:XB:109:GLN:HA	2.18	0.43
1:AF:385:PHE:CZ	1:AF:408:PHE:HD1	2.36	0.43
1:AH:230:ALA:HA	1:AH:233:MET:HB2	1.99	0.43
1:AJ:144:GLY:N	69:AJ:500:GDP:O2B	2.45	0.43
2:AM:191:THR:O	2:AM:195:LEU:HG	2.18	0.43
1:AN:309:ARG:NH2	1:AN:343:GLU:OE1	2.50	0.43
2:BG:238:LEU:HA	2:BG:318:MET:HG3	2.01	0.43
1:BL:5:VAL:HG12	1:BL:130:LEU:HD11	1.99	0.43
1:BL:21:TRP:HZ3	1:BL:50:TYR:HB3	1.83	0.43
2:C:322:ASP:OD2	2:C:373:ARG:NH2	2.52	0.43
2:CD:192:HIS:HE1	2:CD:421:ALA:HB2	1.81	0.43
2:CD:363:VAL:HG23	2:CD:366:GLY:HA3	2.00	0.43
1:CE:190:HIS:O	1:CE:194:GLU:HG2	2.19	0.43
1:CI:347:ASN:C	1:CI:347:ASN:HD22	2.27	0.43
1:CK:310:TYR:N	1:CK:340:TYR:O	2.44	0.43
1:CK:324:LYS:HD3	2:CL:210:TYR:CG	2.53	0.43
1:DA:325:GLU:OE2	2:DB:221:ARG:HG2	2.17	0.43
1:DA:346:PRO:HG2	2:DB:394:LYS:NZ	2.33	0.43
1:DC:173:PRO:HD3	1:DC:380:ARG:NH1	2.33	0.43
2:DF:129:CYS:SG	2:DF:132:LEU:HB2	2.58	0.43
2:DF:215:ARG:NH2	2:DF:299:ALA:O	2.47	0.43
2:DH:241:SER:OG	2:DH:250:VAL:O	2.28	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DI:87:PRO:HD3	1:EH:281:TYR:CD1	2.52	0.43
2:DJ:326:LYS:HD3	1:DK:220:PRO:HD2	2.01	0.43
1:DK:226:ASN:HA	1:DK:229:VAL:HG22	2.01	0.43
1:DM:320:ARG:NH2	27:1T:848:THR:HG22	2.31	0.43
1:E:159:TYR:HB3	1:E:162:ARG:HG3	2.00	0.43
1:E:318:ARG:HB2	1:E:358:PRO:HD3	2.01	0.43
1:EB:4:ILE:HG22	1:EB:49:VAL:HG22	1.99	0.43
1:EF:167:PHE:CZ	1:EF:233:MET:HG2	2.53	0.43
2:EG:39:ASP:HB2	24:1I:511:HIS:HB2	1.99	0.43
2:EG:54:SER:HB2	2:EG:62:VAL:HG23	2.00	0.43
2:EG:117:LEU:O	2:EG:121:ARG:HG2	2.19	0.43
1:EH:268:MET:H	1:EH:299:MET:CE	2.26	0.43
1:EH:327:ASP:HB3	2:EI:177:VAL:HG13	2.00	0.43
2:EI:105:ARG:NH2	2:EI:110:ILE:HD11	2.33	0.43
1:EL:207:LEU:HD13	1:EL:228:LEU:HD23	2.00	0.43
1:F:101:TRP:CD2	1:F:187:LEU:HB3	2.54	0.43
1:F:155:LEU:HA	1:F:155:LEU:HD23	1.69	0.43
2:FA:179:THR:OG1	71:FA:501:GTP:O3'	2.32	0.43
2:FC:408:TYR:HB3	2:FC:413:MET:SD	2.58	0.43
2:FG:182:VAL:O	2:FG:186:ASN:ND2	2.50	0.43
2:FG:187:CYS:O	2:FG:191:THR:HG23	2.18	0.43
2:FG:325:PRO:HB2	1:FH:208:TYR:OH	2.18	0.43
1:FH:135:LEU:HG	1:FH:137:HIS:CD2	2.49	0.43
1:FL:175:VAL:O	1:FL:175:VAL:HG12	2.18	0.43
1:G:176:SER:OG	1:G:181:GLU:OE1	2.31	0.43
1:GD:77:ARG:HG2	1:GD:77:ARG:HH11	1.83	0.43
1:GD:245:GLN:HE21	2:GE:224:TYR:HB2	1.84	0.43
1:GF:130:LEU:O	1:GF:162:ARG:NE	2.51	0.43
1:GH:374:ILE:O	1:GH:377:MET:HG3	2.18	0.43
2:GI:213:THR:HA	2:GI:217:LEU:HB2	2.00	0.43
2:GK:301:MET:HE1	2:GK:305:CYS:O	2.17	0.43
2:GK:328:VAL:HG21	2:GK:355:ILE:HD11	2.00	0.43
1:HB:60:VAL:HG11	1:HB:86:ARG:HG3	2.01	0.43
2:HC:310:GLY:O	2:HC:342:GLN:NE2	2.52	0.43
2:HE:49:PHE:HD2	2:HE:53:PHE:HB2	1.83	0.43
2:HE:269:LEU:HD22	2:HE:303:THR:HG21	2.00	0.43
2:HG:236:SER:HA	2:HG:239:THR:HG22	1.99	0.43
1:HJ:293:MET:HE3	1:HJ:367:PHE:HD1	1.83	0.43
2:HK:296:PHE:CE2	2:HK:377:MET:HE1	2.54	0.43
1:HL:117:LEU:HD11	1:HL:154:LYS:HE3	1.98	0.43
1:HL:147:MET:HA	1:HL:150:LEU:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:19:LYS:HG2	1:I:226:ASN:HB3	1.99	0.43
2:IA:229:ARG:NH1	2:IA:363:VAL:HG11	2.32	0.43
2:IA:392:ASP:OD1	2:IA:393:HIS:N	2.51	0.43
1:IB:167:PHE:CD1	1:IB:200:MET:HG2	2.53	0.43
2:IE:383:ALA:O	2:IE:386:GLU:HG2	2.18	0.43
2:IG:219:ILE:HB	2:IG:222:PRO:HG3	1.99	0.43
2:IG:352:LYS:HE2	1:IH:99:ASN:HD22	1.82	0.43
2:II:396:ASP:CG	2:II:422:ARG:HE	2.26	0.43
1:IL:45:GLU:HG3	1:IL:46:ARG:HH11	1.83	0.43
2:J:264:ARG:HG3	2:J:264:ARG:HH11	1.84	0.43
2:JD:18:ASN:HB3	15:0f:101:HIS:CE1	2.53	0.43
1:JE:212:PHE:CD2	1:JE:213:ARG:HG3	2.54	0.43
1:JE:317:PHE:HD2	1:JE:321:MET:HE1	1.82	0.43
1:JK:247:ASN:OD1	1:JK:248:SER:N	2.50	0.43
1:JM:208:TYR:CE1	1:JM:225:LEU:HD11	2.53	0.43
2:JN:211:ASP:O	2:JN:215:ARG:HG2	2.19	0.43
2:KD:152:LEU:O	2:KD:156:ARG:HG2	2.18	0.43
1:KE:141:GLY:O	1:KE:145:SER:OG	2.35	0.43
2:KF:364:PRO:HD2	45:2y:357:ARG:NH2	2.33	0.43
1:KG:105:HIS:HD2	1:KG:106:TYR:CE1	2.36	0.43
1:KI:293:MET:HG3	1:KI:367:PHE:HB2	2.00	0.43
1:KK:371:ASN:OD1	1:KK:372:THR:N	2.51	0.43
2:KL:69:ASP:OD2	2:KL:71:GLU:HG3	2.18	0.43
2:KN:98:ASP:OD2	2:KN:99:ALA:N	2.51	0.43
2:LB:1:MET:SD	1:LC:70:PRO:HG2	2.59	0.43
2:LB:340:THR:HG23	2:LB:341:ILE:HG23	2.00	0.43
1:LC:28:HIS:HA	1:LC:43:GLN:HB3	2.01	0.43
1:LC:181:GLU:HB3	1:LC:182:PRO:HD3	2.01	0.43
1:LC:415:MET:O	1:LC:419:VAL:HG23	2.18	0.43
2:LD:115:VAL:HG11	2:LD:152:LEU:HG	2.00	0.43
1:LE:139:LEU:HA	1:LE:145:SER:HB3	1.99	0.43
1:LK:189:VAL:HG21	1:LK:415:MET:SD	2.58	0.43
2:LL:155:GLU:O	2:LL:159:VAL:HG23	2.18	0.43
2:LN:320:ARG:O	2:LN:373:ARG:HA	2.18	0.43
2:LN:392:ASP:OD2	2:LN:425:LEU:HB3	2.18	0.43
1:LO:77:ARG:HA	1:LO:82:GLY:HA3	2.00	0.43
1:LO:203:ASP:O	1:LO:207:LEU:HD23	2.18	0.43
2:MA:315:CYS:HB3	2:MA:377:MET:HE2	2.01	0.43
2:MC:176:GLN:OE1	13:0Y:40:PRO:HG2	2.18	0.43
1:MD:163:ILE:HD11	1:MD:251:ARG:HG3	2.00	0.43
1:MF:23:VAL:N	26:1Q:14:LYS:HZ1	2.15	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MG:45:GLU:HG3	23:1A:41:LYS:NZ	2.33	0.43
2:MG:295:VAL:HG21	2:MG:375:VAL:HG13	2.00	0.43
1:MJ:65:LEU:CB	1:MJ:73:MET:HE1	2.48	0.43
1:MJ:167:PHE:CE2	1:MJ:233:MET:HG2	2.54	0.43
2:MK:275:VAL:HG23	2:MK:275:VAL:O	2.18	0.43
1:ML:119:VAL:O	1:ML:123:GLU:HG2	2.18	0.43
2:MM:1:MET:N	2:MM:3:GLU:OE2	2.41	0.43
1:MN:61:PRO:HD2	1:MN:85:PHE:HA	2.00	0.43
1:MN:364:SER:OG	1:MN:365:VAL:N	2.51	0.43
2:NA:217:LEU:HD21	2:NA:275:VAL:HG22	2.00	0.43
2:NC:22:GLU:HG3	2:NC:83:TYR:OH	2.18	0.43
1:ND:113:ILE:HD13	1:ND:150:LEU:HG	2.01	0.43
2:NG:52:PHE:CD1	2:NG:243:ARG:HD3	2.53	0.43
2:NI:250:VAL:HG21	2:NI:255:PHE:HB3	2.00	0.43
1:NJ:347:ASN:HD22	1:NJ:347:ASN:C	2.25	0.43
2:NK:169:TYR:OH	2:NK:238:LEU:HD23	2.19	0.43
2:OA:333:ALA:O	2:OA:337:THR:HG23	2.18	0.43
1:OJ:166:THR:HG21	1:OJ:192:LEU:HD22	2.00	0.43
1:OL:188:SER:O	1:OL:192:LEU:HB2	2.18	0.43
1:OL:420:SER:O	1:OL:423:GLN:HG3	2.19	0.43
2:OM:52:PHE:CE2	2:OM:243:ARG:HD3	2.53	0.43
1:P:128:ASP:OD2	59:4a:96:LYS:HG2	2.18	0.43
1:P:256:ASN:ND2	1:P:350:LYS:HE3	2.33	0.43
2:PA:7:ILE:HG23	2:PA:66:LEU:HD23	1.99	0.43
2:PA:275:VAL:O	2:PA:275:VAL:HG13	2.17	0.43
1:PB:62:ARG:HG3	1:PB:123:GLU:OE2	2.18	0.43
1:PD:124:ALA:HB1	1:PD:130:LEU:HD22	2.01	0.43
2:PG:352:LYS:HD2	2:PG:353:CYS:H	1.83	0.43
1:PH:345:ILE:HG22	2:PI:398:MET:HG2	2.00	0.43
2:PI:58:ALA:HB2	2:QH:282:TYR:HB2	2.00	0.43
2:PK:338:LYS:NZ	2:PK:340:THR:HG1	2.13	0.43
2:Q:282:TYR:HB3	41:2h:368:HIS:CE1	2.53	0.43
1:QA:21:TRP:CZ3	1:QA:61:PRO:HB3	2.53	0.43
1:QC:56:GLY:HA2	41:2e:386:ILE:HD13	2.00	0.43
2:QD:199:ASP:HB3	2:QD:256:GLN:NE2	2.33	0.43
2:QD:212:LEU:HD13	2:QD:300:GLY:HA2	1.99	0.43
1:QG:323:THR:HA	1:QG:326:VAL:HG12	2.00	0.43
2:QH:88:ASN:HB3	2:QH:90:GLU:O	2.18	0.43
1:QI:304:ASP:OD2	1:QI:306:ARG:HG2	2.17	0.43
2:QJ:139:HIS:O	2:QJ:170:THR:HA	2.18	0.43
2:QJ:224:TYR:O	2:QJ:228:ASN:ND2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:RB:117:LEU:HD11	2:RB:121:ARG:NH2	2.33	0.43
2:RD:392:ASP:HB2	2:RD:422:ARG:NE	2.33	0.43
2:RH:104:ALA:HA	2:RH:108:TYR:HD2	1.83	0.43
2:RH:117:LEU:O	2:RH:121:ARG:HG2	2.18	0.43
2:RH:195:LEU:HD11	2:RH:428:LEU:HD22	2.00	0.43
2:RH:291:ILE:O	2:RH:295:VAL:HG23	2.18	0.43
2:RJ:201:ALA:O	2:RJ:268:VAL:HG22	2.17	0.43
2:RJ:203:MET:HG2	2:RJ:268:VAL:O	2.19	0.43
1:RK:322:SER:CB	2:RL:221:ARG:HG2	2.47	0.43
1:SB:170:ILE:N	1:SB:202:ILE:O	2.51	0.43
2:SC:298:PRO:O	2:SC:301:MET:HG2	2.18	0.43
2:SC:352:LYS:HA	1:SD:177:ASP:O	2.18	0.43
1:SD:55:SER:H	1:TD:283:GLY:HA2	1.83	0.43
1:SD:182:PRO:HG3	1:SD:384:GLN:HG3	1.99	0.43
1:SF:125:GLU:O	61:3w:272:SER:HA	2.19	0.43
2:TA:324:VAL:HG11	1:TB:219:THR:HB	1.99	0.43
2:TA:356:ASN:ND2	2:TA:358:GLN:H	2.16	0.43
2:TC:26:LEU:HD12	2:TC:363:VAL:HG12	2.00	0.43
1:TF:68:LEU:HD12	1:TF:97:ALA:HB2	2.00	0.43
2:TK:195:LEU:HD23	2:TK:264:ARG:HE	1.83	0.43
2:TK:322:ASP:OD2	2:TK:373:ARG:NH2	2.46	0.43
2:UE:7:ILE:O	2:UE:137:VAL:HA	2.18	0.43
2:UE:293:ASN:O	2:UE:297:GLU:HG2	2.17	0.43
2:UG:392:ASP:O	2:UG:422:ARG:NH1	2.44	0.43
2:UI:28:HIS:CE1	2:UI:243:ARG:HD2	2.53	0.43
2:UK:166:LYS:O	2:UK:198:THR:OG1	2.35	0.43
2:UK:335:ILE:HD12	2:UK:338:LYS:HD2	2.00	0.43
1:UL:69:GLU:HG2	1:UL:71:GLY:H	1.82	0.43
1:UL:253:LEU:HD23	1:UL:350:LYS:HZ2	1.83	0.43
2:VA:142:GLY:CA	2:VA:183:GLU:HG3	2.48	0.43
2:VA:312:TYR:HB2	2:VA:343:PHE:HD1	1.83	0.43
2:VC:292:THR:HG21	2:VC:331:ALA:HB1	1.99	0.43
2:VC:389:ALA:HA	2:VC:392:ASP:OD2	2.19	0.43
1:VH:67:ASP:HA	1:VH:143:THR:HG21	1.99	0.43
2:VM:178:SER:HB2	2:VM:183:GLU:OE1	2.18	0.43
1:W:206:ALA:HB2	1:W:302:ALA:N	2.33	0.43
1:WB:50:TYR:CE2	1:WB:241:ARG:HD3	2.54	0.43
1:WB:163:ILE:HD11	1:WB:251:ARG:HG3	1.99	0.43
2:WC:205:ASP:OD1	2:WC:303:THR:HA	2.18	0.43
2:WC:212:LEU:O	2:WC:216:SER:HB3	2.18	0.43
2:WC:212:LEU:HD13	2:WC:230:LEU:HD21	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:WC:312:TYR:CD1	2:WC:381:SER:HB2	2.53	0.43
2:WC:387:VAL:HA	2:WC:390:ARG:HG2	2.00	0.43
1:WD:19:LYS:HZ1	1:WD:227:HIS:HB2	1.83	0.43
2:WE:27:GLU:HG3	2:WE:361:THR:HG21	2.00	0.43
2:WE:212:LEU:O	2:WE:216:SER:OG	2.36	0.43
1:WF:327:ASP:HB3	2:WG:177:VAL:HG13	2.01	0.43
2:WG:275:VAL:O	2:WG:275:VAL:HG13	2.19	0.43
1:WH:221:THR:OG1	1:WH:222:PHE:N	2.52	0.43
1:WH:294:PHE:CE2	1:WH:333:VAL:HG11	2.53	0.43
1:WH:347:ASN:HB3	2:WI:178:SER:OG	2.18	0.43
2:WM:45:GLU:HA	4:XR:14:LYS:HD2	2.00	0.43
2:WM:175:PRO:HG3	2:WM:390:ARG:NH2	2.34	0.43
3:XB:137:SER:HG	3:XB:148:TYR:HD2	1.65	0.43
3:XE:26:ASP:HB2	3:XE:63:ALA:HA	2.00	0.43
3:XF:78:MET:HE2	3:XF:80:ILE:HD11	2.00	0.43
4:XR:215:ILE:HG13	4:XR:250:PHE:CE2	2.53	0.43
6:0:9:GLY:C	6:0:11:VAL:H	2.26	0.43
7:0D:361:GLU:HG2	7:0D:362:ASP:N	2.33	0.43
8:0G:183:ARG:HD3	53:3X:45:MET:HG3	1.99	0.43
9:0L:389:ARG:HD2	9:0L:405:ALA:HA	1.99	0.43
9:0N:41:ALA:H	9:0N:592:SER:HB2	1.83	0.43
9:0N:182:ASP:HB3	9:0N:185:GLN:HB2	2.00	0.43
10:0R:68:LEU:HD12	10:0R:71:ARG:HE	1.84	0.43
11:0U:16:PRO:HG3	11:0U:259:GLU:OE2	2.18	0.43
16:0l:271:GLN:O	16:0l:275:LEU:HD23	2.18	0.43
16:0l:300:PHE:HA	16:0l:303:VAL:HG12	2.00	0.43
16:0l:430:GLU:OE2	16:0l:432:ARG:NH1	2.47	0.43
16:0k:677:THR:HG22	16:0k:680:GLN:HG2	2.00	0.43
21:0w:297:ALA:O	21:0w:300:VAL:HG12	2.18	0.43
23:1A:198:TRP:O	23:1A:202:GLU:HG2	2.18	0.43
23:1B:368:GLU:O	23:1B:372:GLU:OE1	2.36	0.43
23:1F:390:PHE:HA	23:1F:393:TRP:HD1	1.83	0.43
24:1I:435:LYS:HZ2	24:1I:435:LYS:HG3	1.60	0.43
24:1I:490:PHE:CZ	24:1I:498:LEU:HD21	2.53	0.43
24:1J:498:LEU:O	24:1J:501:PHE:HB2	2.19	0.43
24:1K:732:PHE:O	24:1K:736:LEU:HD23	2.18	0.43
25:1O:220:GLN:HG2	25:1O:224:SER:OG	2.18	0.43
25:1O:535:VAL:HA	25:1O:544:LEU:HA	2.01	0.43
28:1Y:112:THR:HG22	28:1Y:114:ASN:H	1.83	0.43
22:1w:70:ALA:HB1	22:1w:136:ASP:OD1	2.18	0.43
33:2F:105:SER:O	33:2F:105:SER:OG	2.37	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:2Z:18:ARG:HD3	40:2Z:87:GLU:OE1	2.17	0.43
41:2e:334:LEU:HD23	41:2e:334:LEU:HA	1.90	0.43
41:2o:357:THR:O	41:2o:361:GLN:HG2	2.18	0.43
43:2t:181:ALA:O	43:2t:223:ILE:N	2.45	0.43
46:3B:301:GLU:O	46:3B:305:MET:HG2	2.18	0.43
46:3B:333:ASP:OD2	46:3B:336:TYR:HB2	2.19	0.43
48:3H:110:GLU:HG2	48:3H:114:ARG:NH1	2.31	0.43
57:3i:182:ASP:OD1	57:3i:182:ASP:N	2.52	0.43
58:3m:99:LEU:HD12	58:3m:103:LEU:HD13	2.00	0.43
66:5L:147:PRO:HA	66:5L:240:GLY:O	2.18	0.43
66:5L:208:ILE:O	66:5L:212:LEU:HD23	2.19	0.43
1:A:295:ASP:OD2	1:A:297:LYS:HG2	2.18	0.43
1:AB:379:ARG:HG3	1:AB:419:VAL:HG11	2.00	0.43
2:AC:88:ASN:OD1	2:AC:89:PRO:HD2	2.19	0.43
2:AC:188:VAL:HG21	2:AC:395:PHE:HB2	2.00	0.43
2:AE:26:LEU:HD11	54:3Z:352:GLN:HG3	2.01	0.43
2:AE:53:PHE:HB3	2:AE:61:HIS:HB3	2.00	0.43
1:AF:112:LEU:HD23	1:AF:116:VAL:HG23	2.00	0.43
2:AG:75:VAL:HG11	2:AG:94:SER:HB2	2.00	0.43
2:AI:110:ILE:O	2:AI:113:GLU:HB3	2.18	0.43
2:AI:326:LYS:NZ	1:AJ:220:PRO:HG2	2.34	0.43
1:AJ:234:SER:O	1:AJ:241:ARG:NH2	2.40	0.43
2:AK:6:CYS:O	2:AK:65:CYS:HA	2.18	0.43
2:AM:261:PRO:HG3	2:AM:313:MET:HE2	1.99	0.43
1:AN:144:GLY:N	69:AN:500:GDP:O2B	2.34	0.43
2:BA:70:LEU:HB3	2:BA:97:GLU:O	2.18	0.43
2:BC:91:GLN:H	2:BC:121:ARG:NH1	2.14	0.43
2:BE:1:MET:HE2	1:BF:70:PRO:HG3	2.00	0.43
2:BI:26:LEU:HD13	2:BI:364:PRO:HD2	2.00	0.43
2:BI:429:GLU:O	2:BI:433:GLU:OE1	2.35	0.43
1:BJ:229:VAL:HA	1:BJ:232:VAL:HG12	2.00	0.43
1:BJ:380:ARG:O	1:BJ:384:GLN:HG3	2.18	0.43
1:BL:323:THR:HG21	2:BM:224:TYR:CD1	2.53	0.43
1:BN:152:ILE:HG22	1:BN:195:ASN:HB3	2.01	0.43
1:BN:229:VAL:HG12	1:BN:233:MET:HE3	2.01	0.43
1:CA:19:LYS:HD3	1:CA:19:LYS:HA	1.80	0.43
2:CB:204:LEU:HD22	2:CB:231:ILE:HG12	2.01	0.43
2:CB:326:LYS:HE3	1:CC:208:TYR:CD2	2.53	0.43
1:CC:345:ILE:HD12	2:CD:398:MET:HG2	2.00	0.43
1:CE:263:LEU:HD11	1:CE:425:TYR:CD2	2.51	0.43
1:CG:344:TRP:CZ3	1:CG:345:ILE:HD11	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CH:156:ARG:HA	2:CH:159:VAL:HG12	2.01	0.43
2:CH:326:LYS:NZ	1:CI:208:TYR:CG	2.83	0.43
1:CI:8:GLN:CD	1:CI:17:GLY:HA3	2.44	0.43
1:CI:148:GLY:O	1:CI:152:ILE:HG12	2.18	0.43
1:CM:103:LYS:HD3	1:CM:108:GLU:HG2	1.99	0.43
2:D:136:MET:HA	2:D:167:LEU:O	2.18	0.43
2:D:285:GLN:NE2	2:D:287:SER:HB2	2.32	0.43
1:DA:267:MET:HE1	1:DA:371:ASN:HD22	1.82	0.43
2:DB:431:ASP:OD1	2:DB:432:TYR:N	2.51	0.43
1:DK:350:LYS:HD2	2:DL:179:THR:O	2.18	0.43
2:DL:98:ASP:OD1	2:DL:99:ALA:N	2.51	0.43
2:DL:392:ASP:OD1	2:DL:393:HIS:N	2.52	0.43
1:E:211:CYS:HB3	1:E:220:PRO:HB3	2.01	0.43
1:EB:129:CYS:CB	2:EC:96:LYS:HE3	2.45	0.43
2:EE:167:LEU:HD21	2:EE:255:PHE:CE1	2.53	0.43
2:EG:352:LYS:NZ	1:EH:179:VAL:HG13	2.33	0.43
1:EH:167:PHE:CE2	1:EH:233:MET:HG2	2.53	0.43
1:EJ:375:GLN:NE2	1:EJ:426:GLN:OE1	2.51	0.43
1:EL:294:PHE:CE2	1:EL:333:VAL:HG11	2.54	0.43
1:EL:382:GLY:HA2	1:EL:385:PHE:HB3	2.00	0.43
1:F:232:VAL:HG11	1:F:268:MET:CE	2.43	0.43
1:F:292:GLN:HG2	1:F:298:ASN:ND2	2.32	0.43
2:FA:234:VAL:O	2:FA:238:LEU:HG	2.18	0.43
1:FB:181:GLU:HB2	1:FB:182:PRO:HD3	2.00	0.43
2:FC:102:ASN:HB3	2:FC:105:ARG:HB3	2.00	0.43
1:FD:347:ASN:ND2	2:FE:178:SER:H	2.16	0.43
2:FE:115:VAL:O	2:FE:119:LEU:HD23	2.18	0.43
1:FF:101:TRP:NE1	1:FF:188:SER:OG	2.51	0.43
1:FF:316:LEU:HB2	1:FF:366:THR:OG1	2.19	0.43
2:FG:29:GLY:HA2	28:4W:123:PRO:HB2	2.01	0.43
1:FH:229:VAL:O	1:FH:233:MET:HG3	2.18	0.43
1:FJ:322:SER:OG	2:FK:222:PRO:O	2.35	0.43
1:FL:193:VAL:HA	1:FL:264:HIS:CE1	2.54	0.43
1:FL:211:CYS:HB3	1:FL:220:PRO:HG3	1.99	0.43
1:FL:217:LEU:HD23	1:FL:220:PRO:HB3	2.00	0.43
1:GB:65:LEU:HD13	1:GB:90:PHE:HE1	1.83	0.43
1:GB:133:PHE:CG	1:GB:155:LEU:HD13	2.53	0.43
2:GC:31:GLN:NE2	2:GC:37:PRO:HD3	2.31	0.43
2:GC:268:VAL:HG12	2:GC:380:ASN:HB2	1.99	0.43
1:GF:208:TYR:CE1	1:GF:225:LEU:HD11	2.54	0.43
1:GH:67:ASP:HB2	1:GH:73:MET:HE3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GI:260:VAL:HB	1:GJ:397:TRP:HE1	1.82	0.43
1:H:42:LEU:HA	1:H:45:GLU:HG3	1.99	0.43
1:H:228:LEU:HD11	1:H:273:LEU:HD11	1.99	0.43
1:H:330:MET:HE2	1:H:351:SER:HB2	1.99	0.43
1:HB:267:MET:HB3	1:HB:299:MET:HE1	1.99	0.43
1:HD:280:GLN:OE1	17:0n:339:MET:HE1	2.19	0.43
2:HE:6:CYS:HB3	2:HE:8:HIS:NE2	2.33	0.43
1:HH:156:ARG:NH1	1:HH:164:MET:HE2	2.34	0.43
2:HI:21:TRP:NE1	2:HI:65:CYS:SG	2.91	0.43
1:HJ:235:GLY:HA3	1:HJ:366:THR:HG21	2.01	0.43
2:HM:277:SER:O	2:HM:281:ALA:CB	2.67	0.43
1:I:4:ILE:HD12	1:I:132:GLY:C	2.44	0.43
1:IB:8:GLN:HB3	1:IB:14:ASN:HA	1.99	0.43
1:IB:322:SER:OG	1:IB:323:THR:N	2.51	0.43
2:IE:22:GLU:OE2	2:IE:229:ARG:NH1	2.52	0.43
2:IE:336:LYS:HE3	2:IE:351:PHE:HD2	1.83	0.43
1:IF:3:GLU:OE2	1:IF:127:CYS:HB3	2.18	0.43
1:IF:170:ILE:HG21	1:IF:377:MET:SD	2.59	0.43
2:IG:324:VAL:HG12	2:IG:326:LYS:H	1.82	0.43
2:II:279:GLU:OE2	7:0D:173:ARG:HG2	2.18	0.43
1:IJ:313:ALA:HB3	1:IJ:349:ILE:HD13	1.99	0.43
1:IL:201:CYS:O	1:IL:202:ILE:HD13	2.19	0.43
2:IM:169:TYR:OH	2:IM:238:LEU:HD13	2.17	0.43
2:J:276:VAL:HG23	2:J:369:ALA:HB3	2.01	0.43
2:J:422:ARG:HA	2:J:422:ARG:HD2	1.69	0.43
2:JD:209:ILE:HG21	2:JD:227:VAL:HG13	2.01	0.43
2:JF:177:VAL:HB	2:JF:207:GLU:HG3	2.00	0.43
2:JF:191:THR:HB	2:JF:195:LEU:HD23	1.99	0.43
2:JF:329:ASN:ND2	1:JG:175:VAL:HG13	2.33	0.43
2:JJ:288:VAL:HB	2:JJ:327:ASP:HB3	1.99	0.43
2:JL:133:GLN:NE2	2:JL:252:LEU:H	2.17	0.43
1:JM:2:ARG:HH12	2:JN:72:PRO:HD2	1.82	0.43
1:JM:24:ILE:HA	1:JM:27:GLU:HG2	2.01	0.43
2:JN:31:GLN:OE1	2:JN:31:GLN:N	2.52	0.43
1:KA:172:SER:HB2	1:KA:203:ASP:OD1	2.19	0.43
2:KB:172:TYR:CZ	2:KB:203:MET:HE1	2.53	0.43
2:KD:11:GLN:N	71:KD:501:GTP:O2B	2.51	0.43
2:KD:99:ALA:HA	2:KD:110:ILE:HD11	2.01	0.43
1:KG:126:SER:O	35:2N:253:ARG:NH2	2.51	0.43
1:KG:263:LEU:HD11	1:KG:425:TYR:CD2	2.54	0.43
1:KG:377:MET:O	1:KG:381:VAL:HG23	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KG:410:GLU:O	1:KG:414:ASN:ND2	2.42	0.43
2:KH:149:LEU:HA	2:KH:149:LEU:HD12	1.75	0.43
2:KH:194:LEU:HD12	2:KH:198:THR:OG1	2.19	0.43
2:KH:260:VAL:HG12	2:KH:266:HIS:HA	2.00	0.43
2:KJ:240:ALA:HB1	2:KJ:356:ASN:HD22	1.83	0.43
1:KM:32:PRO:HG3	1:KM:81:TYR:CE1	2.53	0.43
1:KM:207:LEU:HD21	1:KM:300:MET:HE3	2.01	0.43
2:KN:188:VAL:HG21	2:KN:395:PHE:HB2	2.00	0.43
1:LA:198:GLU:HB2	1:LA:266:PHE:CE2	2.53	0.43
2:LB:5:ILE:HG23	2:LB:125:LEU:HD13	2.00	0.43
2:LB:70:LEU:HD12	2:LB:99:ALA:HB2	2.01	0.43
2:LB:429:GLU:HB3	22:1w:65:THR:OG1	2.19	0.43
2:LD:9:ILE:HD11	2:LD:153:LEU:HD23	1.99	0.43
1:LE:324:LYS:HA	1:LE:327:ASP:OD1	2.19	0.43
1:LG:320:ARG:NH1	45:2y:411:THR:O	2.41	0.43
2:LH:31:GLN:HG3	35:2N:296:ASN:HB3	2.01	0.43
2:LJ:173:PRO:HB3	2:LJ:183:GLU:CD	2.43	0.43
2:LJ:297:GLU:CD	2:LJ:298:PRO:HD2	2.43	0.43
2:LL:296:PHE:CZ	2:LL:335:ILE:HG21	2.54	0.43
2:LL:388:PHE:HA	2:LL:391:ILE:HG12	2.00	0.43
1:LM:150:LEU:HD21	6:0A:121:VAL:HG12	1.99	0.43
1:LM:189:VAL:O	1:LM:193:VAL:HG23	2.18	0.43
2:LN:217:LEU:HD13	2:LN:367:ASP:OD2	2.18	0.43
2:LN:286:LEU:HD23	2:LN:286:LEU:HA	1.84	0.43
2:LN:395:PHE:CE1	2:LN:422:ARG:HB2	2.53	0.43
1:LO:228:LEU:HB3	1:LO:300:MET:HE1	1.99	0.43
1:MB:2:ARG:NH1	2:MC:72:PRO:HD2	2.34	0.43
1:MD:294:PHE:HD2	1:MD:333:VAL:HG21	1.84	0.43
2:ME:212:LEU:HD21	2:ME:300:GLY:HA2	1.99	0.43
2:ME:430:LYS:O	2:ME:434:GLU:HG2	2.18	0.43
1:MF:336:LYS:HD2	13:0Z:71:LYS:HZ3	1.82	0.43
2:MG:79:ARG:O	2:MG:84:ARG:HG2	2.19	0.43
2:MI:90:GLU:HB2	2:MI:121:ARG:NH1	2.33	0.43
2:MI:390:ARG:HB2	2:MI:390:ARG:HH11	1.83	0.43
1:MJ:156:ARG:HD2	4:XQ:77:TYR:CE2	2.53	0.43
2:MK:169:TYR:OH	2:MK:238:LEU:HD13	2.18	0.43
2:MK:185:TYR:HE2	2:MK:404:PHE:HB2	1.84	0.43
1:MN:20:PHE:HA	1:MN:230:ALA:HB1	2.01	0.43
1:MN:173:PRO:HD3	1:MN:380:ARG:NH1	2.34	0.43
1:N:309:ARG:HE	1:N:342:ILE:HG22	1.84	0.43
1:NB:101:TRP:NE1	1:NB:188:SER:OG	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NB:151:LEU:HG	1:NB:155:LEU:HD13	2.00	0.43
1:NB:265:PHE:HE2	1:NB:418:LEU:HD21	1.83	0.43
2:NC:69:ASP:OD1	2:NC:71:GLU:HG3	2.18	0.43
2:NC:237:SER:HB3	2:NC:272:TYR:HE2	1.84	0.43
2:NC:273:ALA:HB3	2:NC:295:VAL:HG22	2.00	0.43
1:ND:291:GLN:O	1:ND:295:ASP:HB2	2.19	0.43
2:NE:275:VAL:O	2:NE:275:VAL:HG13	2.18	0.43
1:NF:20:PHE:CG	1:NF:233:MET:HE2	2.54	0.43
1:NF:144:GLY:N	69:NF:500:GDP:O2B	2.39	0.43
1:NF:406:MET:HE3	1:NF:406:MET:HB3	1.92	0.43
2:NG:320:ARG:HH12	2:NG:360:PRO:CA	2.31	0.43
1:NH:2:ARG:NH1	2:NI:72:PRO:HD2	2.32	0.43
1:NH:249:ASP:H	1:NH:252:LYS:CB	2.31	0.43
1:NH:293:MET:HE1	1:NH:315:ALA:CB	2.48	0.43
2:NK:8:HIS:ND1	2:NK:17:GLY:HA3	2.33	0.43
2:NK:227:VAL:O	2:NK:231:ILE:HG12	2.19	0.43
1:NL:229:VAL:O	1:NL:233:MET:HG2	2.19	0.43
1:OB:68:LEU:HD12	1:OB:97:ALA:HB2	2.00	0.43
1:OB:210:ILE:O	1:OB:214:THR:HB	2.18	0.43
2:OC:209:ILE:HD13	2:OC:227:VAL:HG13	2.00	0.43
1:OD:55:SER:HA	41:2k:157:ARG:HH22	1.83	0.43
1:OD:58:ARG:NH1	1:PD:280:GLN:OE1	2.51	0.43
2:OG:40:LYS:HD2	2:OG:40:LYS:HA	1.84	0.43
2:OG:115:VAL:HG22	2:OG:119:LEU:HD23	2.01	0.43
1:OH:113:ILE:HG13	1:OH:117:LEU:HD23	2.00	0.43
2:OI:70:LEU:HD23	2:OI:145:THR:HG23	2.00	0.43
1:OJ:161:ASP:OD1	1:OJ:161:ASP:N	2.50	0.43
1:OJ:189:VAL:O	1:OJ:193:VAL:HG23	2.19	0.43
2:OK:212:LEU:HD21	2:OK:275:VAL:HB	2.00	0.43
2:OK:326:LYS:HB3	1:OL:212:PHE:HZ	1.83	0.43
1:P:141:GLY:HA3	69:P:500:GDP:O3A	2.19	0.43
1:P:222:PHE:HD1	1:P:225:LEU:HD12	1.84	0.43
2:PC:133:GLN:HB3	2:PC:252:LEU:HD23	2.00	0.43
2:PC:251:ASP:H	2:PC:254:GLU:HG3	1.84	0.43
1:PD:330:MET:O	1:PD:334:GLN:HG3	2.18	0.43
2:PE:191:THR:O	2:PE:195:LEU:HD23	2.18	0.43
1:PH:385:PHE:CZ	1:PH:408:PHE:HD2	2.36	0.43
2:PI:209:ILE:HD13	2:PI:227:VAL:HG13	2.01	0.43
1:PJ:317:PHE:HB2	1:PJ:353:ILE:HD13	2.00	0.43
2:QD:54:SER:HB3	2:QD:64:ARG:CZ	2.48	0.43
2:QD:101:ASN:O	2:QD:186:ASN:ND2	2.42	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QD:377:MET:HE3	2:QD:378:ILE:H	1.83	0.43
1:QE:28:HIS:HA	1:QE:43:GLN:HG2	2.00	0.43
2:QF:422:ARG:NH1	2:QF:426:ALA:HB2	2.33	0.43
2:QH:88:ASN:ND2	2:QH:91:GLN:OE1	2.43	0.43
2:QJ:8:HIS:HB3	2:QJ:13:GLY:C	2.43	0.43
2:QJ:213:THR:HG22	2:QJ:219:ILE:HB	2.01	0.43
2:QJ:311:LYS:HD2	2:QJ:344:VAL:HG12	1.99	0.43
1:QK:364:SER:OG	1:QK:365:VAL:N	2.52	0.43
2:QL:205:ASP:O	2:QL:209:ILE:HG12	2.18	0.43
1:RC:330:MET:HE3	1:RC:349:ILE:HG21	2.00	0.43
2:RD:36:MET:HE1	2:RD:61:HIS:NE2	2.34	0.43
2:RD:121:ARG:HH11	2:RD:124:LYS:HD3	1.83	0.43
2:RF:189:LEU:HD13	2:RF:413:MET:HE1	2.01	0.43
2:RF:225:THR:HG21	28:1Y:46:GLU:HG2	1.99	0.43
1:RI:347:ASN:ND2	2:RJ:178:SER:H	2.17	0.43
1:RK:73:MET:HE3	1:RK:90:PHE:HB3	2.00	0.43
1:RK:121:ARG:HD2	59:3p:242:VAL:HA	2.01	0.43
1:RK:189:VAL:O	1:RK:193:VAL:HG13	2.18	0.43
1:S:170:ILE:HD13	1:S:377:MET:HE3	2.01	0.43
2:SA:275:VAL:O	2:SA:275:VAL:HG13	2.19	0.43
2:SC:83:TYR:HB3	2:SC:86:LEU:HB3	2.00	0.43
1:SD:382:GLY:O	1:SD:386:THR:HG23	2.18	0.43
1:SH:124:ALA:HB1	1:SH:130:LEU:HD22	2.00	0.43
1:TB:344:TRP:H	1:TB:344:TRP:CD1	2.35	0.43
1:TD:101:TRP:CE3	1:TD:403:MET:HE1	2.53	0.43
2:TE:213:THR:HG23	2:TE:219:ILE:HD12	2.01	0.43
2:TE:259:LEU:HD11	2:TE:378:ILE:HG23	2.01	0.43
2:TG:212:LEU:HD21	2:TG:275:VAL:HG11	2.00	0.43
2:TG:438:GLU:HB2	57:3g:177:ARG:HH21	1.82	0.43
1:TJ:153:SER:HA	1:TJ:195:ASN:HD22	1.84	0.43
1:TL:171:PRO:HG3	1:TL:181:GLU:OE2	2.18	0.43
1:TL:368:ILE:O	1:TL:368:ILE:HG13	2.18	0.43
2:UA:68:LEU:HD11	2:UA:114:ILE:HG12	2.01	0.43
1:UF:66:MET:HE3	1:UF:147:MET:HE2	2.00	0.43
1:UF:69:GLU:HG2	1:UF:71:GLY:H	1.83	0.43
1:UF:318:ARG:NH2	1:UF:356:ILE:O	2.44	0.43
2:UG:212:LEU:HD23	2:UG:215:ARG:HH22	1.83	0.43
1:UH:377:MET:HA	1:UH:380:ARG:NE	2.33	0.43
2:UK:209:ILE:HG21	2:UK:227:VAL:HG13	2.00	0.43
2:UK:373:ARG:HG3	2:UK:373:ARG:NH1	2.33	0.43
1:UL:290:THR:HA	1:UL:293:MET:HG3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VD:106:TYR:HE2	1:VD:403:MET:SD	2.42	0.43
1:VD:265:PHE:HB2	1:VD:422:TYR:OH	2.19	0.43
1:VD:312:THR:HG21	2:VE:404:PHE:HZ	1.82	0.43
1:VD:321:MET:HB3	1:VD:363:MET:HE2	2.00	0.43
2:VG:428:LEU:HA	2:VG:431:ASP:OD2	2.19	0.43
1:VH:51:PHE:O	1:VH:62:ARG:NH1	2.51	0.43
1:VJ:105:HIS:ND1	1:VJ:105:HIS:O	2.52	0.43
1:VJ:173:PRO:HD3	1:VJ:380:ARG:NH1	2.33	0.43
2:VK:282:TYR:CE2	8:0G:202:LEU:HD11	2.54	0.43
2:WC:107:HIS:CD2	2:WC:152:LEU:HB2	2.53	0.43
1:WF:344:TRP:CD2	2:WG:401:LYS:HD2	2.54	0.43
2:WK:155:GLU:HG2	2:WK:197:HIS:ND1	2.33	0.43
1:WL:345:ILE:HB	1:WL:348:ASN:HD21	1.82	0.43
2:WM:72:PRO:O	2:WM:76:ASP:HB2	2.18	0.43
3:X:81:LYS:HB3	3:X:161:ARG:HB2	2.01	0.43
3:XA:48:GLU:OE2	3:XA:161:ARG:HG2	2.19	0.43
3:XA:62:PRO:HD2	3:XA:153:ARG:HH12	1.84	0.43
3:XB:81:LYS:HD2	3:XB:161:ARG:HG3	2.00	0.43
3:XC:51:GLY:HA3	3:XC:57:CYS:SG	2.59	0.43
3:XE:171:LEU:HD23	3:XE:171:LEU:HA	1.83	0.43
4:XM:196:ILE:O	4:XM:200:ILE:HG12	2.19	0.43
5:XN:257:ASN:HB2	5:XN:307:VAL:HG22	2.00	0.43
4:XQ:121:THR:OG1	4:XQ:168:GLU:OE1	2.23	0.43
7:0D:90:GLY:O	7:0D:92:ASP:N	2.52	0.43
8:0I:99:ARG:O	8:0I:103:GLU:HB2	2.19	0.43
9:0L:501:ARG:HG3	9:0L:501:ARG:NH1	2.34	0.43
9:0N:119:ASP:CG	9:0N:121:GLN:HE21	2.26	0.43
9:0N:349:ARG:HD3	9:0N:358:GLU:OE1	2.19	0.43
9:0O:22:LEU:HB3	9:0O:25:SER:HB2	2.00	0.43
19:0r:86:MET:HE2	19:0r:86:MET:HB3	1.94	0.43
20:0t:272:GLY:O	20:0t:273:ARG:HG2	2.19	0.43
20:0u:176:THR:HG22	20:0u:242:GLY:HA2	1.98	0.43
21:0v:67:GLN:HG2	21:0v:69:ALA:N	2.34	0.43
23:1A:139:GLU:CD	23:1A:142:ARG:HH21	2.25	0.43
23:1E:72:ARG:O	23:1E:75:GLU:HG3	2.18	0.43
27:1S:840:ARG:O	27:1S:844:MET:HG3	2.18	0.43
28:1d:156:LEU:HB3	28:1d:162:LEU:HD23	2.00	0.43
32:2C:181:THR:HG22	32:2C:182:THR:N	2.33	0.43
33:2G:168:PRO:HA	33:2G:169:PRO:HD3	1.87	0.43
37:2S:127:HIS:CE1	37:2S:188:GLN:HE21	2.37	0.43
39:2X:64:GLU:O	39:2X:67:ARG:HG3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:2t:166:GLN:O	43:2t:169:ARG:HG2	2.19	0.43
44:2v:333:GLN:HG3	44:2v:356:LEU:HD21	1.98	0.43
49:3Q:203:ARG:HD3	49:3Q:226:ASN:ND2	2.33	0.43
52:3U:207:ILE:HD11	52:3U:212:LEU:HD13	1.99	0.43
54:3a:86:THR:O	54:3a:88:LYS:HG3	2.18	0.43
57:3h:166:LYS:HZ3	57:3h:167:TYR:HE2	1.64	0.43
62:4B:161:ASP:OD2	62:4B:163:LYS:NZ	2.47	0.43
28:4W:161:ARG:O	28:4W:161:ARG:HG2	2.18	0.43
66:5K:92:ASP:N	66:5K:92:ASP:OD1	2.49	0.43
1:A:63:ALA:O	1:A:89:ASN:ND2	2.51	0.43
1:A:163:ILE:HD13	1:A:163:ILE:HA	1.83	0.43
2:AA:167:LEU:HD21	2:AA:255:PHE:HZ	1.84	0.43
2:AC:288:VAL:CB	2:AC:327:ASP:HB3	2.49	0.43
1:AD:235:GLY:HA3	1:AD:366:THR:HG21	2.01	0.43
2:AE:320:ARG:HD3	2:AE:360:PRO:HG3	1.99	0.43
1:AF:42:LEU:HD11	54:3Z:438:HIS:CD2	2.52	0.43
1:AH:164:MET:HE2	1:AH:164:MET:HB2	1.87	0.43
1:AL:173:PRO:HB3	1:AL:384:GLN:HE22	1.84	0.43
2:AM:9:ILE:HG22	2:AM:146:GLY:HA2	1.99	0.43
2:AM:152:LEU:O	2:AM:156:ARG:HG2	2.19	0.43
1:AN:9:ALA:HB3	1:AN:137:HIS:HB3	2.00	0.43
1:B:36:TYR:OH	1:B:40:SER:O	2.36	0.43
1:B:343:GLU:O	1:B:346:PRO:HD3	2.18	0.43
2:BA:152:LEU:O	2:BA:156:ARG:HG2	2.19	0.43
1:BB:39:ASP:O	16:0k:620:ARG:NH1	2.51	0.43
1:BB:346:PRO:O	2:BC:394:LYS:NZ	2.44	0.43
2:BC:207:GLU:HA	2:BC:210:TYR:CG	2.54	0.43
2:BC:398:MET:HE1	2:BC:404:PHE:HD2	1.83	0.43
1:BD:249:ASP:O	1:BD:252:LYS:HB2	2.19	0.43
2:BE:178:SER:HB2	2:BE:183:GLU:OE2	2.18	0.43
2:BE:180:ALA:HB3	2:BE:183:GLU:HB3	2.01	0.43
1:BF:356:ILE:HG23	16:0k:23:ARG:NH1	2.29	0.43
2:BI:269:LEU:HD13	2:BI:301:MET:SD	2.58	0.43
2:BI:324:VAL:HG21	1:BJ:219:THR:CG2	2.48	0.43
1:BL:102:ALA:HB2	1:BL:403:MET:HE2	2.01	0.43
2:BM:143:GLY:HA3	71:BM:501:GTP:O1B	2.18	0.43
2:BM:188:VAL:HG21	2:BM:395:PHE:HB2	2.01	0.43
2:BM:249:ASN:HB2	1:BN:11:GLN:HE22	1.83	0.43
2:C:11:GLN:HA	2:C:74:VAL:HG11	1.99	0.43
2:C:365:GLY:HA2	16:0k:932:PHE:CD1	2.54	0.43
2:CB:277:SER:OG	2:CB:279:GLU:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CC:170:ILE:HD13	1:CC:201:CYS:HB2	2.00	0.43
2:CH:247:ALA:HB3	2:CH:355:ILE:HB	2.00	0.43
2:CL:225:THR:O	2:CL:229:ARG:HG3	2.18	0.43
1:CM:4:ILE:HD12	1:CM:132:GLY:O	2.19	0.43
1:CM:91:ILE:HD11	1:CM:119:VAL:HG11	1.99	0.43
1:CM:100:ASN:HB3	1:CM:103:LYS:CB	2.48	0.43
2:D:422:ARG:NH1	2:D:426:ALA:HB2	2.34	0.43
1:DC:178:THR:HG22	1:DC:179:VAL:N	2.34	0.43
1:DE:65:LEU:HD22	1:DE:90:PHE:CE2	2.53	0.43
2:DF:97:GLU:CD	2:DF:105:ARG:HH22	2.26	0.43
2:DF:392:ASP:OD1	2:DF:393:HIS:N	2.52	0.43
2:DJ:352:LYS:HD2	2:DJ:353:CYS:H	1.84	0.43
1:DK:371:ASN:OD1	1:DK:372:THR:N	2.51	0.43
2:DL:127:ASP:OD1	2:DL:128:ASN:N	2.51	0.43
1:DM:221:THR:HG22	1:DM:222:PHE:H	1.84	0.43
2:EC:66:LEU:HD11	2:EC:121:ARG:HB2	2.01	0.43
2:EE:117:LEU:HD11	2:EE:121:ARG:NH2	2.34	0.43
1:EH:117:LEU:HA	1:EH:120:CYS:SG	2.59	0.43
2:EI:5:ILE:HD11	2:EI:129:CYS:SG	2.59	0.43
2:EK:326:LYS:HD3	1:EL:212:PHE:HZ	1.83	0.43
1:EL:165:MET:HA	1:EL:198:GLU:O	2.18	0.43
1:EL:309:ARG:NE	1:EL:342:ILE:HG12	2.33	0.43
1:EL:377:MET:HA	1:EL:380:ARG:HG2	1.99	0.43
1:F:218:THR:HG23	24:1H:462:ARG:HH21	1.83	0.43
1:FB:139:LEU:HD22	1:FB:188:SER:OG	2.18	0.43
2:FG:295:VAL:HG21	2:FG:375:VAL:HG13	2.00	0.43
1:FH:170:ILE:HD11	1:FH:377:MET:SD	2.58	0.43
1:FH:322:SER:HA	2:FI:223:SER:HB2	2.00	0.43
2:FK:395:PHE:O	2:FK:399:TYR:HB2	2.18	0.43
1:G:242:PHE:HB2	1:G:354:CYS:SG	2.58	0.43
2:GA:388:PHE:HA	2:GA:391:ILE:HG12	2.01	0.43
1:GF:33:THR:HG23	10:0R:123:ILE:HD11	2.01	0.43
1:GF:83:GLN:OE1	10:0R:126:ARG:NH1	2.43	0.43
2:GI:241:SER:OG	2:GI:250:VAL:O	2.30	0.43
2:GI:264:ARG:HH11	66:5L:174:ARG:NH1	2.16	0.43
2:GI:288:VAL:HA	2:GI:291:ILE:HG12	2.01	0.43
1:GJ:186:THR:HG21	1:GJ:385:PHE:CD2	2.53	0.43
1:H:322:SER:OG	1:H:325:GLU:OE2	2.36	0.43
2:HA:49:PHE:CE2	2:HA:61:HIS:HD2	2.36	0.43
2:HA:83:TYR:HD2	2:HA:86:LEU:HD23	1.84	0.43
1:HB:263:LEU:HD13	1:HB:311:LEU:HD13	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HC:328:VAL:O	2:HC:332:ILE:HG12	2.18	0.43
2:HC:406:HIS:HA	2:HC:409:VAL:HG22	2.00	0.43
1:HD:406:MET:O	1:HD:409:THR:OG1	2.31	0.43
1:HF:139:LEU:HD21	1:HF:192:LEU:HD11	1.99	0.43
1:HF:232:VAL:O	1:HF:236:VAL:HG13	2.18	0.43
1:HJ:66:MET:CE	1:HJ:147:MET:HE2	2.49	0.43
1:HJ:68:LEU:HD11	1:HJ:108:GLU:HB3	2.00	0.43
1:HJ:251:ARG:HG2	2:HK:105:ARG:HH11	1.83	0.43
2:HM:240:ALA:C	2:HM:356:ASN:HD21	2.25	0.43
2:HM:387:VAL:HG13	2:HM:388:PHE:CD1	2.54	0.43
1:I:44:LEU:HD12	38:2U:113:ALA:HA	2.00	0.43
1:ID:313:ALA:HB3	1:ID:349:ILE:HD13	1.99	0.43
2:IE:3:GLU:HA	2:IE:51:THR:HA	2.00	0.43
2:IE:51:THR:HG21	2:IE:243:ARG:HG2	2.00	0.43
2:IE:157:LEU:HD12	2:IE:161:TYR:CD2	2.53	0.43
2:IE:288:VAL:HG22	2:IE:323:VAL:HG12	2.00	0.43
1:IF:350:LYS:HA	1:IF:350:LYS:HE2	1.99	0.43
1:IH:310:TYR:CD1	1:IH:371:ASN:HB2	2.54	0.43
2:II:11:GLN:O	2:II:15:GLN:HG3	2.19	0.43
2:II:241:SER:OG	2:II:250:VAL:O	2.20	0.43
2:II:320:ARG:HB3	2:II:358:GLN:O	2.19	0.43
2:II:371:VAL:HA	7:0D:189:PHE:O	2.18	0.43
1:IJ:133:PHE:HD1	1:IJ:164:MET:SD	2.42	0.43
2:IK:2:ARG:HD3	2:IK:242:LEU:HB2	2.00	0.43
2:IK:91:GLN:OE1	2:IK:125:LEU:HD21	2.18	0.43
1:IL:104:GLY:O	1:IL:109:GLY:HA3	2.17	0.43
2:J:170:THR:HB	2:J:172:TYR:CE2	2.54	0.43
2:JD:27:GLU:OE1	2:JD:243:ARG:NH2	2.52	0.43
2:JF:215:ARG:NH2	2:JF:299:ALA:O	2.51	0.43
2:JF:422:ARG:HD2	2:JF:422:ARG:HA	1.76	0.43
1:JG:57:GLY:HA3	19:0r:219:ARG:HH22	1.83	0.43
2:JH:209:ILE:HG23	2:JH:230:LEU:HD23	1.99	0.43
2:JH:292:THR:HG21	2:JH:331:ALA:HB1	2.01	0.43
2:JH:416:GLY:O	2:JH:419:SER:OG	2.21	0.43
1:JI:267:MET:HB2	1:JI:369:GLY:H	1.84	0.43
1:JI:309:ARG:N	1:JI:372:THR:OG1	2.43	0.43
1:JI:322:SER:HA	2:JJ:223:SER:HB2	2.00	0.43
2:JJ:9:ILE:HG23	2:JJ:149:LEU:HD22	2.01	0.43
1:JK:8:GLN:HB3	1:JK:14:ASN:HA	2.01	0.43
2:JL:274:PRO:HD2	2:JL:374:ALA:HA	2.00	0.43
1:JM:161:ASP:OD1	1:JM:162:ARG:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JM:161:ASP:OD1	1:JM:162:ARG:NH1	2.51	0.43
1:JM:186:THR:HG22	1:JM:415:MET:SD	2.57	0.43
1:JM:313:ALA:HB1	1:JM:367:PHE:HE1	1.83	0.43
2:JN:152:LEU:O	2:JN:156:ARG:HG2	2.18	0.43
2:JN:156:ARG:HA	2:JN:159:VAL:HG22	2.01	0.43
1:KA:73:MET:CE	1:KA:92:PHE:HB3	2.48	0.43
2:KB:391:ILE:HG23	2:KB:425:LEU:HD21	2.01	0.43
1:KE:312:THR:HG21	2:KF:404:PHE:HZ	1.82	0.43
2:KF:11:GLN:N	71:KF:501:GTP:O2B	2.52	0.43
1:KG:344:TRP:HB3	1:KG:430:VAL:HG12	1.99	0.43
2:KH:89:PRO:HG2	2:LH:279:GLU:HG3	2.00	0.43
2:KH:295:VAL:HG21	2:KH:375:VAL:HG13	2.00	0.43
1:KI:114:ASP:OD2	35:2O:78:GLY:N	2.51	0.43
1:KI:240:LEU:HD23	1:KI:240:LEU:HA	1.89	0.43
1:KK:10:GLY:HA2	1:KK:143:THR:OG1	2.19	0.43
2:KL:187:CYS:SG	2:KL:391:ILE:HG12	2.58	0.43
2:KL:269:LEU:HD22	2:KL:303:THR:HG21	2.00	0.43
2:LB:52:PHE:HZ	2:LB:239:THR:HG21	1.82	0.43
1:LC:161:ASP:OD2	1:LC:161:ASP:N	2.51	0.43
2:LD:230:LEU:HD23	2:LD:230:LEU:HA	1.90	0.43
1:LE:152:ILE:O	1:LE:156:ARG:HG2	2.18	0.43
1:LE:246:LEU:HA	2:LF:11:GLN:NE2	2.29	0.43
1:LE:334:GLN:HE22	1:LE:348:ASN:CB	2.30	0.43
2:LF:214:ARG:NH2	2:LF:220:GLU:O	2.52	0.43
1:LG:61:PRO:HD3	1:LG:84:LEU:HG	1.99	0.43
1:LG:234:SER:O	1:LG:241:ARG:NH1	2.51	0.43
2:LJ:2:ARG:HB2	2:LJ:133:GLN:HE21	1.83	0.43
1:LK:68:LEU:HG	1:LK:143:THR:OG1	2.19	0.43
1:LK:242:PHE:CE1	45:2z:79:LEU:HD21	2.53	0.43
1:LK:291:GLN:O	1:LK:295:ASP:HB2	2.17	0.43
1:LM:182:PRO:HD2	1:LM:388:MET:HE1	2.01	0.43
1:LO:272:PRO:HG3	1:LO:284:LEU:HD11	2.00	0.43
1:MB:257:LEU:HB3	1:MB:266:PHE:CE1	2.53	0.43
2:MC:80:THR:OG1	27:1S:96:ARG:NH2	2.52	0.43
1:MD:16:ILE:HA	1:MD:226:ASN:HB3	2.00	0.43
1:MD:294:PHE:CD2	1:MD:333:VAL:HG21	2.53	0.43
2:ME:166:LYS:O	2:ME:199:ASP:HB3	2.19	0.43
2:MG:141:VAL:HB	2:MG:190:SER:OG	2.19	0.43
2:MG:212:LEU:HD21	2:MG:275:VAL:HG21	1.99	0.43
2:MG:318:MET:O	2:MG:375:VAL:HA	2.18	0.43
1:MJ:227:HIS:NE2	24:1I:17:MET:HB3	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MN:178:THR:HB	1:MN:181:GLU:CG	2.47	0.43
1:MN:397:TRP:O	1:MN:401:GLU:HG2	2.19	0.43
2:NC:295:VAL:HG11	2:NC:377:MET:HG2	1.99	0.43
1:NF:85:PHE:HB2	1:NF:90:PHE:CE1	2.54	0.43
1:NF:130:LEU:HD11	1:NF:162:ARG:HG3	2.00	0.43
2:NM:426:ALA:HA	2:NM:429:GLU:OE1	2.18	0.43
2:OA:158:SER:HB2	2:OA:197:HIS:CD2	2.53	0.43
2:OA:184:PRO:HA	2:OA:187:CYS:SG	2.59	0.43
2:OA:250:VAL:HA	2:OA:254:GLU:OE1	2.18	0.43
1:OD:61:PRO:HD3	1:OD:84:LEU:HG	2.00	0.43
1:OF:156:ARG:HH22	1:OF:197:ASP:CG	2.27	0.43
1:OH:165:MET:HE3	1:OH:250:LEU:CD1	2.48	0.43
1:OH:324:LYS:HD3	2:OI:210:TYR:CD1	2.52	0.43
2:OI:392:ASP:HB3	2:OI:425:LEU:HD23	2.01	0.43
1:OJ:177:ASP:OD1	1:OJ:177:ASP:N	2.48	0.43
2:OM:175:PRO:HG3	2:OM:390:ARG:CZ	2.48	0.43
2:OM:250:VAL:HG12	2:OM:352:LYS:HE3	2.00	0.43
2:PA:60:LYS:HZ1	2:Q:282:TYR:HD2	1.62	0.43
2:PA:291:ILE:O	2:PA:295:VAL:HG23	2.19	0.43
1:PB:232:VAL:HG21	1:PB:300:MET:SD	2.58	0.43
1:PD:241:ARG:HE	1:PD:241:ARG:HB2	1.61	0.43
1:PD:260:PHE:HZ	1:PD:344:TRP:HH2	1.66	0.43
1:PD:355:ASP:OD1	1:PD:356:ILE:N	2.51	0.43
2:PE:396:ASP:OD2	2:PE:422:ARG:NH2	2.36	0.43
1:PF:351:SER:OG	2:PG:179:THR:OG1	2.31	0.43
1:PJ:55:SER:HB3	1:QI:284:LEU:H	1.84	0.43
2:PK:260:VAL:HG13	1:PL:397:TRP:HE1	1.84	0.43
1:PL:3:GLU:OE2	1:PL:62:ARG:NH1	2.52	0.43
1:PL:50:TYR:CD2	1:PL:241:ARG:HD3	2.54	0.43
1:PL:313:ALA:HB1	1:PL:367:PHE:CE1	2.51	0.43
2:Q:2:ARG:HH22	1:QA:69:GLU:CG	2.32	0.43
2:QB:269:LEU:HD13	2:QB:301:MET:SD	2.58	0.43
2:QB:384:ILE:HB	2:QB:432:TYR:CE2	2.54	0.43
1:QE:144:GLY:N	69:QE:500:GDP:O2B	2.39	0.43
1:QE:171:PRO:HB2	1:QE:181:GLU:OE1	2.18	0.43
1:QE:173:PRO:HD2	1:QE:380:ARG:HE	1.84	0.43
1:QE:186:THR:HG21	1:QE:385:PHE:CG	2.52	0.43
1:QE:292:GLN:HG2	1:QE:298:ASN:ND2	2.34	0.43
2:QF:279:GLU:OE2	22:1x:258:LEU:N	2.52	0.43
1:QI:280:GLN:HG3	1:QI:281:TYR:CD1	2.53	0.43
1:QI:392:LYS:O	1:QI:392:LYS:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QL:434:GLU:OE2	57:3i:65:LEU:HB3	2.18	0.43
2:R:195:LEU:HG	2:R:264:ARG:HE	1.83	0.43
2:R:262:TYR:CG	57:3f:111:MET:HE1	2.54	0.43
1:RA:255:VAL:HG23	2:RB:407:TRP:CG	2.54	0.43
1:RA:389:PHE:HZ	1:RA:405:GLU:HB2	1.82	0.43
1:RC:20:PHE:HA	1:RC:230:ALA:HB1	2.01	0.43
1:RC:73:MET:HG3	1:RC:92:PHE:HB3	2.00	0.43
1:RC:355:ASP:OD2	28:1X:219:THR:HA	2.18	0.43
1:RE:152:ILE:HG22	1:RE:195:ASN:HB3	2.00	0.43
2:RF:384:ILE:O	2:RF:387:VAL:HG12	2.19	0.43
1:RG:164:MET:HE2	1:RG:164:MET:HB2	1.83	0.43
1:RG:262:ARG:HG3	1:RG:262:ARG:NH1	2.34	0.43
1:RI:42:LEU:HD13	1:RI:356:ILE:HD11	1.99	0.43
1:RI:73:MET:HE3	1:RI:90:PHE:HD1	1.83	0.43
2:RJ:229:ARG:NH2	28:1Y:117:ASP:O	2.52	0.43
1:RK:2:ARG:NH2	1:RK:240:LEU:HD23	2.33	0.43
1:RK:36:TYR:CZ	1:RK:38:GLY:HA3	2.53	0.43
1:S:110:ALA:O	1:S:113:ILE:HG22	2.18	0.43
2:SA:155:GLU:HG2	56:3d:231:TYR:HE1	1.84	0.43
2:SE:392:ASP:OD1	2:SE:393:HIS:N	2.52	0.43
1:SF:153:SER:HA	1:SF:195:ASN:OD1	2.19	0.43
1:SH:148:GLY:O	1:SH:152:ILE:HG12	2.19	0.43
1:T:4:ILE:HA	1:T:132:GLY:O	2.19	0.43
1:T:253:LEU:HD22	1:T:368:ILE:HD11	2.01	0.43
2:TA:167:LEU:HD11	2:TA:255:PHE:HE2	1.84	0.43
1:TB:86:ARG:HH11	1:TB:122:LYS:NZ	2.16	0.43
1:TB:379:ARG:O	1:TB:383:GLU:OE1	2.37	0.43
2:TC:117:LEU:HD21	2:TC:121:ARG:NH1	2.34	0.43
2:TC:132:LEU:HD23	2:TC:164:LYS:NZ	2.34	0.43
1:TD:42:LEU:HD12	1:TD:356:ILE:HD11	2.01	0.43
1:TF:46:ARG:NH2	2:TG:76:ASP:OD2	2.52	0.43
1:TH:164:MET:HB2	1:TH:197:ASP:H	1.82	0.43
1:TH:341:PHE:HB3	1:TH:348:ASN:ND2	2.33	0.43
2:TI:156:ARG:HG3	2:TI:156:ARG:HH11	1.82	0.43
1:TL:180:VAL:HG12	1:TL:394:PHE:HB3	2.00	0.43
1:U:139:LEU:HD12	1:U:170:ILE:HG13	2.01	0.43
1:U:167:PHE:CG	1:U:233:MET:HE2	2.54	0.43
2:UC:346:TRP:CD1	1:UD:391:ARG:HG3	2.54	0.43
1:UF:20:PHE:CD1	1:UF:233:MET:HB3	2.53	0.43
1:UF:225:LEU:O	1:UF:229:VAL:HG23	2.19	0.43
2:UG:105:ARG:HG3	2:UG:411:GLU:OE1	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:UG:174:SER:HB2	2:UG:177:VAL:O	2.18	0.43
2:UG:271:SER:OG	2:UG:377:MET:HB3	2.18	0.43
1:UH:46:ARG:HH22	2:UI:73:THR:HA	1.83	0.43
1:UL:233:MET:O	1:UL:236:VAL:HG12	2.18	0.43
1:V:13:GLY:HA2	1:V:16:ILE:HG22	2.01	0.43
1:V:51:PHE:HB3	1:V:59:TYR:HB3	2.01	0.43
2:VA:178:SER:HB2	2:VA:183:GLU:OE1	2.18	0.43
1:VB:299:MET:HE2	1:VB:299:MET:HB2	1.95	0.43
2:VC:21:TRP:NE1	2:VC:65:CYS:SG	2.91	0.43
2:VC:138:PHE:HE2	2:VC:235:VAL:HG21	1.83	0.43
2:VC:272:TYR:HD1	2:VC:376:CYS:HB2	1.83	0.43
1:VD:51:PHE:HB3	1:VD:59:TYR:HB3	2.00	0.43
1:VD:170:ILE:N	1:VD:202:ILE:O	2.36	0.43
1:VD:242:PHE:HB2	1:VD:354:CYS:SG	2.59	0.43
1:VD:385:PHE:CE2	1:VD:412:GLU:HB2	2.53	0.43
1:VH:9:ALA:HB3	1:VH:137:HIS:HB3	2.00	0.43
2:VK:71:GLU:HB3	2:VK:98:ASP:HB3	2.00	0.43
2:VK:229:ARG:HD3	2:VK:363:VAL:HG21	2.00	0.43
1:VL:19:LYS:HA	1:VL:19:LYS:HD3	1.83	0.43
2:VM:281:ALA:HB3	8:0G:144:ARG:HD3	2.00	0.43
2:WA:142:GLY:CA	2:WA:183:GLU:HG3	2.48	0.43
1:WB:21:TRP:CZ3	1:WB:50:TYR:HB3	2.53	0.43
1:WB:377:MET:HE2	1:WB:377:MET:HA	1.98	0.43
2:WC:37:PRO:HG3	9:0L:455:THR:HG21	2.01	0.43
2:WC:322:ASP:OD2	2:WC:373:ARG:NE	2.41	0.43
1:WD:174:ARG:HD3	1:WD:205:GLU:HG3	2.01	0.43
1:WD:392:LYS:HG3	1:WD:392:LYS:O	2.19	0.43
2:WE:223:SER:OG	2:WE:224:TYR:N	2.51	0.43
1:WF:189:VAL:HG21	1:WF:415:MET:SD	2.58	0.43
1:WH:172:SER:HB3	1:WH:175:VAL:HB	2.01	0.43
1:WH:388:MET:HE2	1:WH:388:MET:HB3	1.95	0.43
1:WJ:295:ASP:OD2	1:WJ:297:LYS:NZ	2.38	0.43
1:WL:173:PRO:HA	1:WL:176:SER:HB2	2.01	0.43
3:XB:105:ALA:HA	3:XB:121:MET:O	2.19	0.43
3:XC:26:ASP:HB2	3:XC:63:ALA:HA	1.99	0.43
3:XD:2:PHE:HB3	3:XD:7:GLN:HE21	1.82	0.43
7:0D:91:ALA:HA	7:0D:94:CYS:HB3	2.00	0.43
7:0D:113:GLU:HG2	7:0D:116:TYR:HE1	1.81	0.43
9:0M:431:ASP:OD2	9:0M:436:ARG:HB2	2.18	0.43
10:0R:106:ARG:CZ	10:0R:109:GLN:HE22	2.32	0.43
10:0R:141:ALA:HB1	10:0S:480:LEU:HD13	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:0U:223:GLU:HG3	11:0U:283:VAL:HG11	2.01	0.43
12:0W:128:MET:HG3	12:0W:238:LEU:HB3	2.01	0.43
14:0c:340:ASP:OD1	14:0c:341:ALA:N	2.52	0.43
16:0k:170:PHE:CD1	16:0k:199:VAL:HG21	2.53	0.43
18:0p:227:GLU:O	18:0p:231:ILE:HG12	2.18	0.43
19:0r:150:TYR:CD1	19:0r:155:SER:HA	2.54	0.43
20:0t:252:LYS:HD3	20:0t:252:LYS:HA	1.81	0.43
20:0u:169:VAL:HB	20:0u:240:GLU:OE1	2.19	0.43
20:0u:217:HIS:CE1	20:0u:219:MET:HB2	2.53	0.43
21:0w:468:ARG:HH12	21:0w:472:ILE:HB	1.83	0.43
21:0x:465:GLU:O	21:0x:469:ILE:HG12	2.18	0.43
22:0z:262:ILE:HA	22:0z:265:ARG:HE	1.83	0.43
23:1A:154:PRO:HB2	45:2y:259:ALA:HB2	2.00	0.43
23:1E:248:ARG:HG2	23:1E:248:ARG:NH1	2.33	0.43
23:1E:285:LEU:O	23:1E:289:VAL:HG22	2.18	0.43
24:1H:369:MET:HE3	24:1H:369:MET:HB3	1.84	0.43
24:1I:549:ALA:HB2	24:1I:573:LEU:HD11	2.00	0.43
24:1K:182:ASP:OD2	24:1K:183:VAL:N	2.52	0.43
26:1Q:79:TRP:HZ2	26:1Q:174:PHE:HE1	1.66	0.43
27:1T:818:GLU:OE1	27:1T:818:GLU:N	2.52	0.43
28:1X:235:ASP:HB2	28:1X:240:PHE:HE2	1.84	0.43
28:1h:17:THR:O	28:1h:18:CYS:C	2.60	0.43
29:1l:73:SER:OG	29:1l:78:THR:HG22	2.18	0.43
31:1q:38:GLN:OE1	31:1q:38:GLN:HA	2.19	0.43
31:1s:162:MET:O	31:1s:166:MET:HG3	2.18	0.43
33:2H:20:LEU:HB3	33:2H:82:LYS:HB3	2.00	0.43
34:2L:109:TRP:CD1	34:2L:113:CYS:HB2	2.52	0.43
41:2e:283:LEU:HD13	41:2e:286:GLU:OE2	2.18	0.43
42:2r:343:MET:HE2	42:2r:375:GLN:HB3	2.00	0.43
43:2t:168:TRP:CB	43:2t:310:GLU:HB2	2.46	0.43
44:2w:131:ARG:CZ	44:2w:225:ARG:HD3	2.49	0.43
45:2y:151:THR:O	45:2y:155:ILE:HG13	2.19	0.43
46:3B:211:ILE:O	46:3B:215:VAL:HG22	2.18	0.43
49:3Q:167:GLN:HG3	49:3Q:185:ALA:HB3	2.00	0.43
57:3f:83:GLU:O	57:3f:86:ARG:NH1	2.52	0.43
57:3i:100:ASP:CG	57:3i:101:SER:H	2.25	0.43
59:3o:256:GLU:OE2	59:3o:256:GLU:N	2.51	0.43
60:3r:68:LEU:O	60:3r:72:MET:HG2	2.18	0.43
28:4W:184:ILE:HD12	28:4W:184:ILE:HA	1.92	0.43
64:5D:100:GLU:OE2	65:5I:90:LYS:HD2	2.19	0.43
65:5H:127:GLN:HE22	68:5T:132:PRO:HG3	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:5S:88:ARG:NH1	68:5S:88:ARG:HB3	2.34	0.43
1:A:225:LEU:O	1:A:229:VAL:HG23	2.18	0.43
2:AA:427:ALA:HB1	3:X:118:ILE:HD12	2.01	0.43
1:AB:347:ASN:O	2:AC:181:VAL:HG12	2.18	0.43
1:AD:347:ASN:HD22	1:AD:347:ASN:C	2.26	0.43
1:AD:350:LYS:HA	2:AE:179:THR:O	2.18	0.43
2:AE:112:LYS:HA	2:AE:115:VAL:HG12	2.01	0.43
2:AE:251:ASP:HB2	2:AE:254:GLU:HG2	2.00	0.43
2:AE:296:PHE:CG	2:AE:335:ILE:HG12	2.53	0.43
1:AF:21:TRP:HZ3	1:AF:50:TYR:HB3	1.84	0.43
1:AF:242:PHE:HB2	1:AF:354:CYS:SG	2.59	0.43
2:AG:15:GLN:HB3	2:AG:228:ASN:ND2	2.33	0.43
1:AH:105:HIS:ND1	1:AH:146:GLY:O	2.46	0.43
1:AL:170:ILE:HG13	1:AL:201:CYS:HB3	2.00	0.43
2:AM:271:SER:OG	2:AM:377:MET:HB3	2.18	0.43
2:AM:310:GLY:O	2:AM:342:GLN:NE2	2.52	0.43
2:AM:324:VAL:HG21	1:AN:219:THR:OG1	2.19	0.43
1:AN:322:SER:HB3	1:AN:325:GLU:OE1	2.18	0.43
1:B:36:TYR:CE1	1:B:44:LEU:HD11	2.53	0.43
2:BA:91:GLN:H	2:BA:121:ARG:HH11	1.67	0.43
1:BB:139:LEU:HG	1:BB:168:SER:HB3	2.00	0.43
1:BB:324:LYS:NZ	2:BC:222:PRO:O	2.50	0.43
2:BE:335:ILE:HG23	2:BE:341:ILE:HD11	2.00	0.43
2:BG:70:LEU:HB2	2:BG:98:ASP:HA	2.00	0.43
1:BH:66:MET:HE2	1:BH:147:MET:HG2	2.00	0.43
1:BH:175:VAL:HG23	1:BH:205:GLU:HB3	2.01	0.43
2:BI:151:ALA:O	2:BI:155:GLU:HG2	2.19	0.43
2:BI:346:TRP:CE3	2:BI:347:CYS:HB2	2.54	0.43
1:BJ:256:ASN:O	1:BJ:312:THR:HG21	2.19	0.43
1:BJ:313:ALA:HB1	1:BJ:367:PHE:CE1	2.54	0.43
1:BJ:399:THR:HA	1:BJ:403:MET:O	2.19	0.43
1:BL:319:GLY:HA2	1:BL:357:PRO:HD3	2.01	0.43
2:BM:301:MET:HE3	2:BM:307:PRO:HG3	2.01	0.43
1:CA:68:LEU:HD22	1:CA:108:GLU:HG3	2.00	0.43
1:CC:198:GLU:HB2	1:CC:266:PHE:HE2	1.84	0.43
2:CD:191:THR:HG21	2:CD:425:LEU:HD21	2.00	0.43
2:CF:428:LEU:HA	2:CF:431:ASP:OD2	2.19	0.43
1:CG:25:SER:HB2	1:CG:81:TYR:HE2	1.84	0.43
1:CG:321:MET:N	1:CG:321:MET:SD	2.91	0.43
2:CH:25:CYS:HB3	2:CH:30:ILE:O	2.18	0.43
1:CI:174:ARG:HH22	1:CI:380:ARG:HH12	1.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CI:236:VAL:HG23	1:CI:368:ILE:HD11	2.00	0.43
1:CK:5:VAL:HG12	1:CK:130:LEU:HD11	2.01	0.43
1:CK:238:CYS:CB	1:CK:318:ARG:HD3	2.48	0.43
1:CM:104:GLY:O	1:CM:147:MET:HB2	2.18	0.43
1:CM:167:PHE:HZ	1:CM:236:VAL:HG11	1.84	0.43
1:DA:239:CYS:HB2	1:DA:248:SER:O	2.18	0.43
1:DC:76:VAL:O	1:DC:82:GLY:HA3	2.18	0.43
1:DC:245:GLN:HB3	2:DD:224:TYR:HD2	1.83	0.43
1:DC:311:LEU:HA	1:DC:342:ILE:HD12	2.01	0.43
1:DE:245:GLN:O	2:DF:11:GLN:NE2	2.43	0.43
1:DE:321:MET:HE2	1:DE:363:MET:HE2	2.00	0.43
2:DH:419:SER:O	2:DH:423:GLU:OE1	2.37	0.43
1:DI:207:LEU:HD22	1:DI:228:LEU:HD23	2.00	0.43
2:DJ:203:MET:HE3	2:DJ:384:ILE:HD13	2.00	0.43
1:DK:124:ALA:HA	1:DK:130:LEU:HD11	2.01	0.43
2:EA:338:LYS:NZ	2:EA:341:ILE:HG12	2.34	0.43
1:EB:374:ILE:O	1:EB:377:MET:HG2	2.19	0.43
1:EB:375:GLN:HB2	1:EB:419:VAL:HG13	2.01	0.43
2:EC:143:GLY:O	2:EC:147:SER:OG	2.34	0.43
1:EF:169:VAL:HG22	1:EF:202:ILE:HB	2.00	0.43
1:F:253:LEU:HD21	1:F:316:LEU:HD21	2.01	0.43
2:FA:40:LYS:HD2	2:FA:40:LYS:HA	1.86	0.43
2:FC:142:GLY:CA	2:FC:183:GLU:HG3	2.48	0.43
2:FG:173:PRO:HG2	2:FG:391:ILE:HD12	2.01	0.43
2:FG:196:GLU:HG3	2:FG:197:HIS:CD2	2.54	0.43
2:FG:232:GLY:HA2	2:FG:235:VAL:HG12	2.00	0.43
1:FJ:413:SER:HA	1:FJ:416:ASN:HD21	1.84	0.43
1:G:2:ARG:N	1:G:131:GLN:HB2	2.34	0.43
1:GB:200:MET:HE1	1:GB:236:VAL:HG21	2.01	0.43
1:GD:189:VAL:O	1:GD:193:VAL:HG13	2.19	0.43
1:GF:83:GLN:HB2	1:HF:281:TYR:OH	2.19	0.43
1:GH:20:PHE:HA	1:GH:230:ALA:HB1	2.01	0.43
1:GH:46:ARG:HA	1:GH:46:ARG:HD3	1.70	0.43
1:GJ:314:SER:HB3	1:GJ:368:ILE:HB	2.00	0.43
2:GK:234:VAL:HG21	2:GK:302:LEU:CD1	2.48	0.43
1:H:240:LEU:HD12	1:H:249:ASP:HB2	2.01	0.43
2:HC:176:GLN:HB2	2:HC:207:GLU:OE2	2.18	0.43
2:HC:376:CYS:SG	2:HC:377:MET:N	2.92	0.43
2:HI:216:SER:OG	2:HI:275:VAL:O	2.30	0.43
1:HL:211:CYS:HB3	1:HL:220:PRO:HG3	1.99	0.43
1:IB:240:LEU:HD11	1:IB:250:LEU:HG	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IB:342:ILE:HG13	1:IB:345:ILE:HG22	2.01	0.43
2:IC:217:LEU:O	2:IC:219:ILE:HG13	2.19	0.43
2:IC:279:GLU:OE2	38:2U:220:LYS:HG2	2.18	0.43
1:ID:271:ALA:O	1:ID:364:SER:OG	2.27	0.43
1:IF:50:TYR:CD2	1:IF:241:ARG:HD3	2.53	0.43
2:II:150:GLY:O	2:II:154:LEU:HD23	2.18	0.43
2:IK:27:GLU:HB3	2:IK:361:THR:OG1	2.18	0.43
2:IK:109:THR:OG1	2:IK:411:GLU:OE2	2.29	0.43
1:IL:177:ASP:OD2	69:IL:500:GDP:H3'	2.18	0.43
1:IL:325:GLU:HA	1:IL:328:GLU:HG3	2.01	0.43
2:JB:257:THR:HA	1:JC:397:TRP:CE2	2.53	0.43
1:JC:4:ILE:HB	1:JC:50:TYR:HE1	1.84	0.43
1:JC:100:ASN:HB3	1:JC:103:LYS:HB3	2.01	0.43
1:JC:170:ILE:N	1:JC:202:ILE:O	2.45	0.43
1:JC:215:LEU:HB3	1:JC:217:LEU:HG	1.99	0.43
1:JC:347:ASN:O	2:JD:181:VAL:HG12	2.18	0.43
2:JF:359:PRO:HD3	47:3D:19:GLN:OE1	2.18	0.43
1:JI:175:VAL:HG12	1:JI:175:VAL:O	2.18	0.43
1:JK:3:GLU:HB2	1:JK:62:ARG:HH12	1.84	0.43
2:JN:305:CYS:O	2:JN:307:PRO:HD3	2.19	0.43
2:JN:422:ARG:HA	2:JN:422:ARG:HD2	1.74	0.43
1:KA:139:LEU:HA	1:KA:145:SER:HB3	2.00	0.43
1:KA:268:MET:HE3	1:KA:269:GLY:O	2.17	0.43
2:KB:185:TYR:CZ	2:KB:398:MET:HB3	2.53	0.43
2:KB:269:LEU:HD23	2:KB:379:ALA:O	2.19	0.43
2:KD:271:SER:OG	2:KD:295:VAL:HG13	2.18	0.43
2:KF:110:ILE:O	2:KF:113:GLU:HG2	2.19	0.43
2:KH:337:THR:O	2:KH:339:ARG:NH1	2.51	0.43
2:KJ:252:LEU:HA	2:KJ:255:PHE:CE2	2.53	0.43
1:KK:324:LYS:NZ	2:KL:222:PRO:HG2	2.29	0.43
2:KL:352:LYS:HD2	1:KM:177:ASP:O	2.18	0.43
1:KM:296:ALA:CB	1:KM:306:ARG:HH12	2.31	0.43
2:KN:352:LYS:HA	2:KN:352:LYS:HD3	1.80	0.43
1:LA:77:ARG:HG3	23:1D:38:LYS:NZ	2.34	0.43
1:LA:288:GLU:H	1:LA:288:GLU:CD	2.27	0.43
1:LA:399:THR:HA	1:LA:403:MET:HB3	2.00	0.43
2:LB:323:VAL:HG22	2:LB:373:ARG:HB2	2.00	0.43
2:LD:270:THR:HG23	2:LD:302:LEU:HB2	2.00	0.43
1:LE:318:ARG:C	1:LE:321:MET:HE1	2.43	0.43
2:LF:200:VAL:HG21	2:LF:259:LEU:HD23	1.99	0.43
1:LG:294:PHE:CD2	1:LG:333:VAL:HG21	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LH:282:TYR:CD1	23:1E:186:ALA:HB1	2.53	0.43
1:LI:174:ARG:NE	1:LI:205:GLU:OE2	2.29	0.43
1:LI:178:THR:HB	1:LI:181:GLU:HG3	2.00	0.43
2:LJ:47:ASP:OD1	2:LJ:47:ASP:N	2.51	0.43
2:LJ:99:ALA:O	2:LJ:105:ARG:HD3	2.19	0.43
2:LJ:316:CYS:HB3	2:LJ:378:ILE:HG23	2.00	0.43
1:LK:91:ILE:HG22	1:LK:112:LEU:HD23	2.00	0.43
1:LK:283:GLY:O	1:LK:288:GLU:HG2	2.19	0.43
1:LM:62:ARG:HD3	1:LM:127:CYS:SG	2.58	0.43
1:LO:31:ASP:OD1	1:LO:37:GLN:NE2	2.52	0.43
2:MA:271:SER:OG	2:MA:377:MET:HB3	2.19	0.43
1:MB:294:PHE:CE1	1:MB:333:VAL:HG11	2.54	0.43
2:MC:115:VAL:HG11	2:MC:156:ARG:HG3	2.01	0.43
2:MC:304:LYS:HD2	2:MC:304:LYS:HA	1.62	0.43
1:MD:37:GLN:O	45:2y:257:ARG:NH1	2.52	0.43
1:MD:342:ILE:HG13	1:MD:345:ILE:HG22	1.99	0.43
1:MF:139:LEU:HD12	1:MF:170:ILE:HG22	2.01	0.43
2:MG:3:GLU:HB2	2:MG:129:CYS:SG	2.59	0.43
2:MG:287:SER:HB3	23:1A:59:LYS:HZ3	1.82	0.43
2:MG:320:ARG:O	2:MG:373:ARG:HA	2.18	0.43
1:MH:2:ARG:HG3	1:MH:2:ARG:NH1	2.34	0.43
2:MI:269:LEU:HD12	2:MI:301:MET:HG2	2.01	0.43
2:MI:308:ARG:NH2	33:2H:166:CYS:SG	2.91	0.43
1:MJ:173:PRO:HG3	1:MJ:384:GLN:NE2	2.34	0.43
2:MK:205:ASP:OD1	2:MK:303:THR:HA	2.18	0.43
1:ML:168:SER:O	1:ML:201:CYS:HA	2.19	0.43
1:MN:307:HIS:ND1	33:2I:196:GLY:HA2	2.33	0.43
1:N:407:GLU:HA	1:N:410:GLU:OE2	2.19	0.43
2:NC:227:VAL:O	2:NC:231:ILE:HG12	2.18	0.43
1:ND:274:THR:HG23	1:ND:282:ARG:HH11	1.83	0.43
2:NE:156:ARG:HG3	2:NE:156:ARG:HH11	1.83	0.43
2:NG:70:LEU:HD22	2:NG:110:ILE:HG22	2.01	0.43
2:NI:177:VAL:HB	2:NI:207:GLU:HB3	2.00	0.43
2:NI:187:CYS:SG	2:NI:391:ILE:HG12	2.58	0.43
1:NJ:326:VAL:HG21	1:NJ:353:ILE:HD11	2.00	0.43
1:NL:18:SER:O	1:NL:22:GLU:HG2	2.18	0.43
1:NL:113:ILE:O	1:NL:117:LEU:HD23	2.18	0.43
2:NM:328:VAL:O	2:NM:332:ILE:HG12	2.19	0.43
2:NM:344:VAL:HG21	2:NM:346:TRP:CE2	2.54	0.43
1:OB:11:GLN:HE21	69:OB:500:GDP:PA	2.41	0.43
1:OD:133:PHE:HB2	1:OD:164:MET:SD	2.59	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OE:1:MET:HG3	2:OE:2:ARG:NH1	2.28	0.43
1:OF:86:ARG:HG2	1:OF:87:PRO:HD2	2.01	0.43
2:OG:91:GLN:NE2	2:OG:125:LEU:HG	2.34	0.43
1:OH:255:VAL:HG12	2:OI:182:VAL:HG21	1.99	0.43
1:OJ:139:LEU:HD11	1:OJ:192:LEU:HD11	2.00	0.43
2:OK:328:VAL:O	2:OK:332:ILE:HG12	2.18	0.43
2:OM:7:ILE:HG22	2:OM:9:ILE:HG23	2.00	0.43
2:OM:377:MET:HE2	2:OM:379:ALA:HB2	2.00	0.43
1:P:197:ASP:OD1	1:P:197:ASP:N	2.51	0.43
1:PB:324:LYS:O	1:PB:328:GLU:HB2	2.18	0.43
1:PF:318:ARG:HA	1:PF:354:CYS:O	2.19	0.43
1:PF:355:ASP:OD2	28:1d:186:ASN:N	2.52	0.43
2:PG:155:GLU:HA	2:PG:197:HIS:ND1	2.33	0.43
2:PI:21:TRP:CZ2	2:PI:65:CYS:HB3	2.53	0.43
1:PJ:60:VAL:HG21	1:PJ:86:ARG:HB2	1.99	0.43
1:PL:22:GLU:OE2	1:PL:80:PRO:HG2	2.19	0.43
2:Q:167:LEU:HD21	2:Q:252:LEU:HD12	1.99	0.43
1:QA:42:LEU:HD11	28:1b:41:THR:HG22	2.00	0.43
1:QA:190:HIS:HB2	1:QA:414:ASN:HD22	1.83	0.43
1:QA:359:LYS:NZ	28:1b:34:ARG:NH2	2.67	0.43
2:QB:139:HIS:CE1	2:QB:170:THR:HG22	2.54	0.43
1:QC:8:GLN:HE21	1:QC:65:LEU:CD1	2.31	0.43
2:QD:312:TYR:O	2:QD:344:VAL:HG23	2.18	0.43
1:QE:334:GLN:HE22	1:QE:347:ASN:HA	1.83	0.43
2:QF:133:GLN:HG3	2:QF:252:LEU:HB2	2.01	0.43
2:QF:268:VAL:HG13	2:QF:379:ALA:C	2.43	0.43
2:QJ:172:TYR:HD1	2:QJ:173:PRO:HD2	1.83	0.43
2:QJ:362:VAL:HG21	41:2i:418:CYS:SG	2.58	0.43
1:QK:8:GLN:NE2	1:QK:65:LEU:HD13	2.34	0.43
1:RC:12:CYS:HB2	69:RC:500:GDP:C8	2.54	0.43
1:RK:185:THR:O	1:RK:189:VAL:HG23	2.19	0.43
1:RK:347:ASN:O	2:RL:181:VAL:HG12	2.18	0.43
1:S:65:LEU:HB3	1:S:73:MET:HE1	2.01	0.43
1:S:135:LEU:HD23	1:S:152:ILE:HD11	2.01	0.43
1:S:288:GLU:OE2	1:S:291:GLN:NE2	2.51	0.43
1:S:395:LEU:HA	1:S:395:LEU:HD23	1.74	0.43
1:SB:311:LEU:HD11	1:SB:372:THR:HG23	2.00	0.43
1:SF:73:MET:HG3	1:SF:92:PHE:HB3	1.99	0.43
1:SF:289:LEU:HD11	1:SF:363:MET:HG2	2.01	0.43
1:T:390:ARG:NH2	57:3f:183:GLU:HG2	2.33	0.43
2:TA:247:ALA:HB3	2:TA:355:ILE:HB	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TB:113:ILE:HG12	1:TB:154:LYS:HZ1	1.84	0.43
1:TD:66:MET:HE1	1:TD:151:LEU:HD22	2.01	0.43
1:TD:293:MET:SD	1:TD:330:MET:HE1	2.59	0.43
2:TE:203:MET:HE1	2:TE:267:PHE:HD2	1.83	0.43
1:TF:242:PHE:HB2	1:TF:354:CYS:SG	2.59	0.43
1:TH:112:LEU:O	1:TH:116:VAL:HG23	2.19	0.43
1:TH:371:ASN:OD1	1:TH:372:THR:N	2.50	0.43
2:TI:308:ARG:HE	61:3x:48:ARG:HH21	1.66	0.43
2:TI:345:ASP:OD2	2:TI:346:TRP:N	2.51	0.43
1:TL:313:ALA:HB1	1:TL:367:PHE:CE1	2.51	0.43
1:U:226:ASN:OD1	69:U:500:GDP:N1	2.43	0.43
1:U:229:VAL:HG12	1:U:233:MET:HE3	2.01	0.43
1:UD:232:VAL:HG13	1:UD:366:THR:HB	2.01	0.43
1:UD:240:LEU:HD11	1:UD:249:ASP:HA	1.99	0.43
1:UD:246:LEU:HD13	2:UE:179:THR:HG21	1.99	0.43
1:UD:255:VAL:HG11	2:UE:100:ALA:O	2.18	0.43
1:UF:361:LEU:HD23	1:UF:363:MET:H	1.83	0.43
1:UH:165:MET:HE2	1:UH:167:PHE:CE2	2.53	0.43
1:UH:404:ASP:HB3	1:UH:407:GLU:HG3	2.01	0.43
2:UI:70:LEU:HB3	2:UI:97:GLU:O	2.19	0.43
2:UI:70:LEU:HD23	2:UI:145:THR:OG1	2.18	0.43
2:UI:212:LEU:HD21	2:UI:275:VAL:CG1	2.49	0.43
1:UL:293:MET:HA	1:UL:298:ASN:ND2	2.33	0.43
2:VA:19:ALA:O	2:VA:22:GLU:HG2	2.18	0.43
1:VD:73:MET:O	1:VD:77:ARG:HG2	2.19	0.43
1:VD:198:GLU:HB2	1:VD:266:PHE:HE1	1.83	0.43
2:VE:275:VAL:HG23	2:VE:368:LEU:HD11	2.01	0.43
1:VH:19:LYS:O	1:VH:23:VAL:HG23	2.18	0.43
1:VH:171:PRO:O	1:VH:380:ARG:NH2	2.41	0.43
1:W:218:THR:OG1	1:W:219:THR:N	2.52	0.43
2:WA:262:TYR:HB2	2:WA:265:ILE:HG12	1.99	0.43
1:WB:156:ARG:HD3	1:WB:164:MET:HG3	2.01	0.43
1:WB:377:MET:HE1	1:WB:380:ARG:HH21	1.82	0.43
2:WC:173:PRO:HG3	2:WC:183:GLU:HG2	2.00	0.43
2:WC:203:MET:HE3	2:WC:384:ILE:CD1	2.49	0.43
1:WD:237:THR:O	1:WD:241:ARG:HG3	2.19	0.43
2:WG:175:PRO:HB3	2:WG:390:ARG:CD	2.49	0.43
1:WH:290:THR:HA	1:WH:293:MET:HE3	2.00	0.43
1:WH:377:MET:HE2	1:WH:380:ARG:NH1	2.31	0.43
1:WJ:203:ASP:OD2	1:WJ:302:ALA:HB3	2.18	0.43
1:WJ:236:VAL:HA	1:WJ:316:LEU:HD13	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:WK:223:SER:OG	2:WK:224:TYR:N	2.51	0.43
2:WM:271:SER:HA	2:WM:302:LEU:HB2	1.99	0.43
2:WM:384:ILE:O	2:WM:387:VAL:HG12	2.19	0.43
3:X:34:VAL:HG22	3:X:49:ILE:HG23	2.00	0.43
3:XA:90:GLU:OE2	3:XA:104:ARG:NH1	2.52	0.43
3:XB:71:ILE:HG21	3:XB:167:PHE:CG	2.54	0.43
3:XC:46:VAL:HG11	3:XC:129:TRP:CH2	2.54	0.43
3:XD:180:GLU:HG2	3:XD:181:PHE:CD1	2.54	0.43
3:XE:36:ARG:HE	4:XQ:263:MET:HG2	1.82	0.43
7:0D:113:GLU:HA	7:0D:116:TYR:CD1	2.53	0.43
8:0I:281:ILE:HA	8:0I:284:LYS:HE3	1.99	0.43
9:0L:515:TYR:HD2	9:0L:519:ASP:HA	1.84	0.43
9:0M:269:LEU:HB3	9:0M:279:ASN:HB2	2.00	0.43
9:0M:578:ASP:HB3	9:0M:581:ARG:HB2	1.99	0.43
9:0N:305:ASN:HB3	9:0N:307:TYR:CE2	2.53	0.43
10:0S:279:GLN:O	10:0S:283:GLU:OE1	2.37	0.43
13:0Z:160:PRO:HG3	32:2C:221:LYS:HG3	2.00	0.43
16:0l:562:THR:HA	16:0l:601:ASP:N	2.33	0.43
20:0t:213:ILE:HG13	20:0t:214:ARG:N	2.34	0.43
21:0w:208:HIS:CD2	21:0w:212:ARG:HE	2.36	0.43
21:0v:50:LEU:HG	21:0v:54:GLU:OE1	2.19	0.43
23:1A:128:GLU:OE2	23:1A:128:GLU:N	2.49	0.43
23:1B:276:ASN:HB2	23:1B:278:ARG:HE	1.83	0.43
24:1H:478:ARG:HE	24:1H:484:TYR:HE1	1.64	0.43
26:1Q:253:LEU:HD22	26:1Q:351:THR:HG23	1.99	0.43
27:1T:717:GLY:O	27:1T:718:LYS:C	2.61	0.43
28:1b:240:PHE:HE2	28:1b:262:GLY:HA2	1.84	0.43
28:1c:29:GLN:NE2	41:2i:348:MET:SD	2.91	0.43
28:1h:94:GLU:OE1	28:1h:99:ARG:NH2	2.41	0.43
31:1r:165:HIS:NE2	22:1x:192:GLN:OE1	2.51	0.43
33:2F:92:TYR:HE1	33:2F:112:TYR:HD2	1.65	0.43
36:2Q:132:TYR:O	36:2Q:197:TYR:OH	2.29	0.43
37:2S:227:ASN:ND2	37:2S:231:HIS:HB2	2.33	0.43
38:2U:141:THR:O	38:2U:145:GLU:HG3	2.18	0.43
39:2X:60:ALA:O	39:2X:64:GLU:OE1	2.37	0.43
40:2Z:14:VAL:HG21	40:2Z:90:TYR:HD2	1.83	0.43
41:2h:404:ALA:O	41:2h:408:LYS:HG2	2.18	0.43
41:2k:310:LYS:HE3	41:2k:314:LYS:HD3	2.01	0.43
41:2l:351:ARG:HB2	41:2l:352:ARG:NH1	2.33	0.43
47:3D:57:TYR:CE2	47:3D:59:GLY:HA2	2.54	0.43
47:3D:323:VAL:HG21	47:3D:340:ARG:HG3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:3D:402:ARG:N	47:3D:402:ARG:HD2	2.33	0.43
48:3F:222:ARG:NH1	48:3F:223:GLU:HG3	2.33	0.43
48:3H:86:LYS:HZ3	48:3H:90:LEU:HD11	1.82	0.43
49:3Q:455:CYS:HG	49:3Q:475:TYR:HE1	1.65	0.43
56:3d:183:ALA:O	56:3d:187:GLN:HG3	2.18	0.43
57:3g:186:MET:SD	57:3g:190:LEU:HD13	2.58	0.43
60:3s:126:TYR:HB3	60:3s:131:PHE:HE2	1.84	0.43
61:3w:163:ILE:O	61:3w:166:ARG:HB2	2.19	0.43
62:4B:263:ASN:OD1	62:4B:264:ARG:NH1	2.52	0.43
28:4W:191:TYR:HA	28:4W:194:LYS:NZ	2.33	0.43
64:5B:199:ARG:HD3	65:5G:194:ASP:OD1	2.17	0.43
64:5B:237:GLN:NE2	65:5G:237:ARG:HH12	2.17	0.43
64:5C:157:LEU:HD13	65:5H:156:ILE:HD13	2.01	0.43
1:AB:253:LEU:HD21	1:AB:316:LEU:HD21	2.00	0.43
1:AB:320:ARG:HD3	54:3Z:245:THR:HG23	2.00	0.43
2:AC:317:LEU:HB3	2:AC:319:TYR:CE1	2.54	0.43
1:AD:311:LEU:HD23	1:AD:342:ILE:CD1	2.49	0.43
1:AF:249:ASP:CG	1:AF:252:LYS:HB2	2.44	0.43
2:AG:39:ASP:HA	25:1O:197:ASP:OD2	2.19	0.43
2:AI:9:ILE:HB	2:AI:139:HIS:HB3	2.01	0.43
2:AI:70:LEU:HD21	2:AI:114:ILE:HG21	2.00	0.43
2:AI:204:LEU:HD22	2:AI:231:ILE:HG12	2.00	0.43
2:AI:377:MET:HE2	2:AI:379:ALA:HB2	2.00	0.43
2:AM:318:MET:O	2:AM:375:VAL:HA	2.18	0.43
1:B:350:LYS:NZ	1:B:352:SER:OG	2.52	0.43
1:B:375:GLN:HB2	1:B:419:VAL:HG13	1.99	0.43
1:BD:130:LEU:O	1:BD:162:ARG:NE	2.51	0.43
1:BD:263:LEU:HD13	1:BD:311:LEU:HD11	1.99	0.43
1:BF:267:MET:CE	1:BF:371:ASN:HB3	2.49	0.43
1:BH:42:LEU:HB3	16:0l:780:ARG:NH2	2.30	0.43
2:BI:208:ALA:HB2	2:BI:304:LYS:HB2	2.00	0.43
2:BK:22:GLU:HG3	2:BK:83:TYR:OH	2.19	0.43
1:BL:249:ASP:H	1:BL:252:LYS:HB3	1.84	0.43
2:C:225:THR:O	2:C:229:ARG:HG3	2.19	0.43
1:CA:68:LEU:HB3	1:CA:95:SER:O	2.18	0.43
1:CC:287:ALA:HA	1:CC:329:GLN:NE2	2.34	0.43
2:CD:234:VAL:HG13	2:CD:376:CYS:SG	2.59	0.43
1:CE:228:LEU:HG	26:1Q:313:LEU:HD21	2.01	0.43
2:CF:1:MET:N	2:CF:3:GLU:OE2	2.50	0.43
2:CF:167:LEU:HD23	2:CF:200:VAL:HB	2.01	0.43
1:CG:324:LYS:HE3	2:CH:210:TYR:CD1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CH:85:GLN:O	2:DH:283:HIS:NE2	2.40	0.43
2:CJ:413:MET:HE3	2:CJ:417:GLU:HB3	2.00	0.43
2:CL:192:HIS:CE1	2:CL:421:ALA:HA	2.51	0.43
1:CM:276:ARG:NH1	24:1K:331:GLU:H	2.16	0.43
2:D:167:LEU:HD13	2:D:200:VAL:HB	2.00	0.43
2:D:234:VAL:HG13	2:D:376:CYS:SG	2.59	0.43
1:DA:255:VAL:HG11	2:DB:100:ALA:O	2.18	0.43
2:DB:414:GLU:HG3	2:DB:416:GLY:H	1.84	0.43
1:DC:159:TYR:HB3	1:DC:162:ARG:HG3	2.00	0.43
1:DC:344:TRP:HB3	1:DC:430:VAL:HG12	2.00	0.43
2:DD:71:GLU:HB3	2:DD:98:ASP:HB3	2.01	0.43
1:DE:187:LEU:HD11	1:DE:408:PHE:CE1	2.53	0.43
1:DE:396:HIS:CE1	1:DE:397:TRP:CE2	3.06	0.43
2:DF:255:PHE:HB2	2:DF:259:LEU:HD13	2.01	0.43
2:DH:191:THR:O	2:DH:195:LEU:HD23	2.18	0.43
2:DJ:115:VAL:HG22	2:DJ:119:LEU:HD23	2.01	0.43
2:DJ:313:MET:HE3	2:DJ:346:TRP:CH2	2.54	0.43
2:DJ:316:CYS:SG	2:DJ:318:MET:HE3	2.59	0.43
2:DJ:384:ILE:O	2:DJ:387:VAL:HG22	2.19	0.43
1:DK:361:LEU:HD23	1:DK:364:SER:HB2	2.00	0.43
2:DL:188:VAL:HG21	2:DL:395:PHE:HB2	2.01	0.43
2:DL:254:GLU:OE2	1:DM:99:ASN:HB2	2.18	0.43
1:E:165:MET:HE2	1:E:167:PHE:HE1	1.84	0.43
2:EA:93:VAL:HG22	2:EA:121:ARG:NH1	2.34	0.43
2:EA:169:TYR:CE2	2:EA:235:VAL:HG12	2.54	0.43
2:EA:170:THR:HG21	2:EA:194:LEU:HD21	2.01	0.43
1:EB:41:ASP:HB3	26:1Q:544:ARG:HG3	2.00	0.43
1:EB:265:PHE:HB2	1:EB:422:TYR:OH	2.18	0.43
1:ED:83:GLN:NE2	26:1Q:472:ILE:HG23	2.34	0.43
1:ED:178:THR:HG22	1:ED:180:VAL:H	1.83	0.43
1:EF:130:LEU:O	1:EF:162:ARG:NH1	2.48	0.43
2:EG:240:ALA:HB2	2:EG:243:ARG:HH21	1.83	0.43
1:EH:220:PRO:HB2	1:EH:224:ASP:HB2	2.00	0.43
1:EL:375:GLN:HB3	1:EL:422:TYR:HD2	1.84	0.43
1:F:6:SER:HG	1:F:21:TRP:HZ2	1.67	0.43
1:F:189:VAL:O	1:F:193:VAL:HG13	2.19	0.43
1:F:350:LYS:HB2	2:FA:181:VAL:HG23	2.00	0.43
2:FA:188:VAL:HG21	2:FA:395:PHE:HB2	2.01	0.43
2:FC:275:VAL:HG13	2:FC:275:VAL:O	2.19	0.43
1:FD:238:CYS:HB3	1:FD:318:ARG:HE	1.83	0.43
1:FF:378:PHE:O	1:FF:415:MET:HE2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FG:275:VAL:HG23	2:FG:368:LEU:HD21	2.00	0.43
1:FH:63:ALA:O	1:FH:89:ASN:ND2	2.42	0.43
2:FK:82:THR:HG21	28:4W:192:PRO:HA	1.99	0.43
1:FL:300:MET:HG3	1:FL:300:MET:O	2.18	0.43
1:G:152:ILE:HD13	1:G:192:LEU:HD21	2.00	0.43
1:GB:3:GLU:HB3	1:GB:62:ARG:NH2	2.34	0.43
1:GB:187:LEU:HD22	1:GB:408:PHE:CE1	2.53	0.43
2:GC:321:GLY:HA3	2:GC:372:GLN:O	2.19	0.43
2:GG:189:LEU:HD13	2:GG:413:MET:HE1	2.00	0.43
2:GG:254:GLU:HG2	1:GH:98:GLY:HA2	2.01	0.43
1:GH:215:LEU:HD11	1:GH:273:LEU:HD12	2.00	0.43
2:GI:195:LEU:HD21	2:GI:264:ARG:HE	1.83	0.43
2:GK:209:ILE:HG21	2:GK:227:VAL:HG13	2.00	0.43
1:GL:3:GLU:O	1:GL:131:GLN:N	2.51	0.43
1:H:202:ILE:HD11	1:H:268:MET:HE1	2.00	0.43
2:HA:431:ASP:HA	2:HA:434:GLU:HB3	2.00	0.43
1:HB:172:SER:HB3	1:HB:205:GLU:OE1	2.18	0.43
2:HC:33:ASP:OD2	2:HC:33:ASP:N	2.50	0.43
1:HD:6:SER:O	1:HD:63:ALA:HA	2.18	0.43
2:HE:178:SER:HB3	2:HE:183:GLU:OE1	2.19	0.43
2:HE:291:ILE:O	2:HE:295:VAL:HG23	2.19	0.43
2:HE:392:ASP:OD1	2:HE:393:HIS:N	2.52	0.43
1:HF:61:PRO:HD3	1:HF:84:LEU:HG	2.01	0.43
1:HF:358:PRO:HG2	1:HF:361:LEU:HD12	2.01	0.43
2:HG:88:ASN:HB3	2:HG:90:GLU:O	2.18	0.43
2:HG:251:ASP:H	2:HG:254:GLU:HB2	1.84	0.43
2:HG:425:LEU:O	2:HG:429:GLU:OE1	2.36	0.43
1:HH:260:PHE:HE2	1:HH:344:TRP:HH2	1.66	0.43
2:HI:21:TRP:HZ2	2:HI:65:CYS:HB3	1.83	0.43
2:HK:115:VAL:O	2:HK:119:LEU:HD23	2.18	0.43
2:HK:139:HIS:O	2:HK:170:THR:HA	2.19	0.43
2:HK:305:CYS:HB3	2:HK:383:ALA:HB1	2.01	0.43
1:HL:173:PRO:HG3	1:HL:384:GLN:NE2	2.34	0.43
1:HL:202:ILE:CD1	1:HL:268:MET:HE1	2.48	0.43
1:HL:207:LEU:HB3	1:HL:225:LEU:HD13	2.00	0.43
2:HM:189:LEU:HD21	2:HM:418:PHE:CD1	2.53	0.43
2:HM:238:LEU:HA	2:HM:318:MET:HG3	2.01	0.43
1:I:197:ASP:OD1	1:I:198:GLU:N	2.52	0.43
1:IB:12:CYS:HB2	69:IB:500:GDP:C8	2.54	0.43
1:IB:132:GLY:HA2	1:IB:162:ARG:HB3	2.00	0.43
2:IC:331:ALA:O	2:IC:335:ILE:HG12	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IE:234:VAL:HG22	2:IE:272:TYR:HB2	2.00	0.43
2:IG:47:ASP:OD1	2:IG:47:ASP:N	2.45	0.43
1:IH:105:HIS:ND1	1:IH:146:GLY:O	2.46	0.43
1:IH:190:HIS:O	1:IH:194:GLU:HG3	2.18	0.43
1:IH:227:HIS:ND1	7:0D:152:GLN:OE1	2.52	0.43
1:IH:255:VAL:HG11	2:II:100:ALA:O	2.18	0.43
1:IJ:374:ILE:HD11	1:IJ:422:TYR:CZ	2.53	0.43
2:IK:309:HIS:HB2	2:IK:386:GLU:OE2	2.19	0.43
2:IK:393:HIS:CE1	2:IK:397:LEU:HD11	2.54	0.43
1:IL:295:ASP:OD2	1:IL:297:LYS:HG2	2.19	0.43
2:IM:36:MET:HE1	2:IM:61:HIS:CE1	2.54	0.43
2:IM:156:ARG:HG3	2:IM:156:ARG:HH11	1.83	0.43
2:JB:142:GLY:CA	2:JB:183:GLU:HG3	2.49	0.43
2:JB:262:TYR:OH	1:JC:391:ARG:O	2.26	0.43
2:JB:335:ILE:HG23	2:JB:338:LYS:HE3	2.01	0.43
2:JD:155:GLU:HG3	2:JD:197:HIS:CE1	2.54	0.43
2:JH:205:ASP:OD1	2:JH:303:THR:HA	2.19	0.43
1:JI:306:ARG:HG3	1:JI:340:TYR:CE2	2.54	0.43
2:JJ:258:ASN:ND2	2:JJ:352:LYS:HE2	2.33	0.43
1:JK:22:GLU:HG3	1:JK:81:TYR:HB2	2.01	0.43
1:JK:313:ALA:HB1	1:JK:367:PHE:CE1	2.52	0.43
2:JL:322:ASP:OD2	2:JL:373:ARG:NH1	2.52	0.43
1:JM:253:LEU:HD11	1:JM:316:LEU:HD11	2.00	0.43
2:K:397:LEU:HD23	2:K:398:MET:HE2	2.01	0.43
1:KA:323:THR:HG21	2:KB:224:TYR:CZ	2.54	0.43
1:KA:346:PRO:O	2:KB:394:LYS:NZ	2.36	0.43
2:KD:211:ASP:HA	2:KD:214:ARG:HE	1.84	0.43
1:KG:130:LEU:HD22	1:KG:162:ARG:HG2	2.00	0.43
1:KG:152:ILE:HD12	1:KG:195:ASN:HB2	2.01	0.43
1:KG:330:MET:SD	1:KG:349:ILE:HG21	2.58	0.43
1:KG:362:LYS:HE2	19:0r:226:MET:CE	2.49	0.43
1:KI:164:MET:HE2	1:KI:164:MET:HB3	1.80	0.43
1:KI:372:THR:O	1:KI:375:GLN:HG2	2.19	0.43
1:KK:256:ASN:CG	1:KK:350:LYS:HE3	2.43	0.43
2:KL:435:VAL:HA	1:KM:391:ARG:HH12	1.84	0.43
1:KM:311:LEU:HB2	1:KM:370:ASN:O	2.19	0.43
2:KN:211:ASP:HA	2:KN:214:ARG:HG3	2.01	0.43
2:KN:324:VAL:HG12	2:KN:326:LYS:HG2	2.01	0.43
2:L:338:LYS:HD2	2:L:339:ARG:N	2.34	0.43
1:LA:193:VAL:O	1:LA:264:HIS:NE2	2.46	0.43
2:LF:66:LEU:HD21	2:LF:68:LEU:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LH:138:PHE:HE2	2:LH:235:VAL:HG21	1.83	0.43
2:LJ:241:SER:HB2	2:LJ:250:VAL:H	1.84	0.43
2:LL:142:GLY:CA	2:LL:183:GLU:HG3	2.49	0.43
1:LO:60:VAL:HG22	1:MN:281:TYR:CD1	2.48	0.43
1:LO:165:MET:HE2	1:LO:198:GLU:OE2	2.19	0.43
2:MA:430:LYS:O	2:MA:433:GLU:HG3	2.19	0.43
2:MC:8:HIS:HB3	2:MC:13:GLY:O	2.18	0.43
1:MD:261:PRO:HB3	5:XN:90:MET:HG3	2.01	0.43
1:MF:313:ALA:O	1:MF:349:ILE:HA	2.18	0.43
2:MI:429:GLU:HG3	13:0Z:173:GLY:HA2	1.99	0.43
1:MJ:20:PHE:HA	1:MJ:230:ALA:HB1	2.00	0.43
1:MJ:291:GLN:O	1:MJ:295:ASP:HB2	2.19	0.43
2:MK:90:GLU:OE1	2:MK:91:GLN:HG3	2.19	0.43
2:MK:116:ASP:OD1	2:MK:117:LEU:N	2.52	0.43
2:MK:138:PHE:HE2	2:MK:235:VAL:HG21	1.83	0.43
2:MK:177:VAL:HG11	2:MK:210:TYR:CE2	2.54	0.43
2:MK:343:PHE:HB2	6:0A:82:PHE:CZ	2.54	0.43
2:MM:211:ASP:O	2:MM:215:ARG:HG2	2.19	0.43
2:MM:273:ALA:HB3	2:MM:295:VAL:HG23	2.00	0.43
2:MM:275:VAL:O	2:MM:275:VAL:HG13	2.19	0.43
2:NA:30:ILE:HD13	2:NA:61:HIS:HB2	2.01	0.43
1:NB:249:ASP:OD1	1:NB:252:LYS:HB2	2.19	0.43
2:NC:322:ASP:OD1	2:NC:373:ARG:NH2	2.52	0.43
1:ND:46:ARG:HA	1:ND:46:ARG:HD3	1.72	0.43
2:NE:155:GLU:O	2:NE:159:VAL:HG23	2.19	0.43
1:NF:377:MET:O	1:NF:380:ARG:HG2	2.18	0.43
2:NG:295:VAL:HG21	2:NG:375:VAL:HG13	2.01	0.43
1:NH:135:LEU:HG	1:NH:137:HIS:HD2	1.84	0.43
1:NJ:132:GLY:HA2	1:NJ:162:ARG:HB3	2.01	0.43
1:NJ:290:THR:HG21	1:NJ:329:GLN:HB3	2.01	0.43
1:NL:374:ILE:HD11	1:NL:422:TYR:CZ	2.53	0.43
1:O:193:VAL:HA	1:O:264:HIS:NE2	2.33	0.43
2:OA:171:VAL:HG22	2:OA:204:LEU:HB3	2.00	0.43
2:OE:221:ARG:N	2:OE:222:PRO:HD3	2.34	0.43
2:OE:265:ILE:HG21	2:OE:313:MET:HE1	2.01	0.43
2:OI:230:LEU:HD21	2:OI:368:LEU:HD21	2.01	0.43
2:OK:282:TYR:HD2	41:2o:190:TRP:CZ3	2.27	0.43
1:OL:315:ALA:HB2	1:OL:330:MET:HE1	2.00	0.43
1:P:25:SER:HB3	1:P:30:VAL:HB	2.00	0.43
1:P:27:GLU:OE1	1:P:318:ARG:NH2	2.52	0.43
1:P:310:TYR:HE2	1:P:367:PHE:CZ	2.37	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PD:151:LEU:O	1:PD:155:LEU:HD13	2.19	0.43
1:PF:113:ILE:O	1:PF:117:LEU:HD23	2.19	0.43
1:PF:262:ARG:HH21	1:PF:418:LEU:HB2	1.84	0.43
1:PJ:267:MET:HB3	1:PJ:374:ILE:HD11	2.00	0.43
1:PJ:382:GLY:O	1:PJ:386:THR:HG23	2.18	0.43
2:PK:116:ASP:N	2:PK:116:ASP:OD1	2.51	0.43
2:PK:175:PRO:O	2:PK:394:LYS:NZ	2.51	0.43
2:PK:370:LYS:O	41:2l:309:LEU:HD11	2.19	0.43
2:PM:11:GLN:N	71:PM:501:GTP:O2B	2.52	0.43
2:PM:75:VAL:HG21	2:PM:94:SER:CB	2.49	0.43
2:PM:392:ASP:OD1	2:PM:393:HIS:N	2.51	0.43
2:QB:295:VAL:HG12	2:QB:377:MET:HE2	2.00	0.43
2:QD:315:CYS:SG	2:QD:377:MET:HE1	2.59	0.43
2:QD:429:GLU:O	2:QD:433:GLU:OE1	2.36	0.43
1:QE:31:ASP:OD1	1:QE:35:THR:OG1	2.29	0.43
2:QF:236:SER:HA	2:QF:239:THR:HG22	2.00	0.43
2:QH:288:VAL:HG13	2:QH:319:TYR:CE2	2.53	0.43
1:QK:313:ALA:HB1	1:QK:367:PHE:HE1	1.84	0.43
2:QL:23:LEU:O	2:QL:27:GLU:HG3	2.19	0.43
2:R:8:HIS:HD1	2:R:67:PHE:HE1	1.65	0.43
2:RD:119:LEU:O	2:RD:123:ARG:HG2	2.19	0.43
1:RE:107:THR:HG21	1:RE:401:GLU:OE1	2.19	0.43
1:RI:165:MET:HE3	1:RI:167:PHE:HE2	1.82	0.43
1:RI:221:THR:HG23	1:RI:223:GLY:H	1.84	0.43
1:RI:324:LYS:HD3	2:RJ:222:PRO:HG2	2.00	0.43
1:RK:203:ASP:HB2	1:RK:301:GLN:OE1	2.19	0.43
2:RL:224:TYR:O	2:RL:228:ASN:ND2	2.51	0.43
2:RL:264:ARG:HA	2:RL:264:ARG:HD2	1.80	0.43
2:SA:122:ILE:HG22	2:SA:161:TYR:OH	2.19	0.43
2:SA:367:ASP:OD2	2:SA:368:LEU:HD22	2.18	0.43
2:SC:234:VAL:HG21	2:SC:302:LEU:HD22	2.01	0.43
1:SD:257:LEU:HD23	1:SD:312:THR:HB	2.01	0.43
1:SF:3:GLU:HA	1:SF:49:VAL:HG23	2.00	0.43
2:SG:16:VAL:HG12	2:SG:228:ASN:ND2	2.28	0.43
2:SG:90:GLU:HG3	2:SG:121:ARG:CZ	2.49	0.43
2:SG:304:LYS:HD2	2:SG:304:LYS:HA	1.92	0.43
1:SH:364:SER:OG	1:SH:365:VAL:N	2.52	0.43
2:TC:316:CYS:SG	2:TC:378:ILE:HG23	2.59	0.43
1:TD:189:VAL:HB	1:TD:415:MET:HE1	2.00	0.43
1:TH:332:ASN:O	1:TH:336:LYS:HG2	2.18	0.43
2:TI:107:HIS:CD2	2:TI:152:LEU:HB2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:TI:258:ASN:ND2	2:TI:352:LYS:HD2	2.21	0.43
2:TI:308:ARG:HE	61:3x:48:ARG:NH2	2.16	0.43
2:TK:173:PRO:HG3	2:TK:183:GLU:HG2	2.00	0.43
2:TK:392:ASP:HB3	2:TK:425:LEU:HD23	2.00	0.43
1:TL:139:LEU:HD13	1:TL:168:SER:OG	2.18	0.43
1:TL:268:MET:O	1:TL:300:MET:HG2	2.18	0.43
1:TL:316:LEU:HB2	1:TL:366:THR:OG1	2.18	0.43
1:U:43:GLN:HG2	53:3W:103:MET:HE1	2.00	0.43
1:U:211:CYS:HA	1:U:215:LEU:HB2	2.01	0.43
2:UA:21:TRP:HZ2	2:UA:65:CYS:HB3	1.82	0.43
2:UC:21:TRP:CZ2	2:UC:65:CYS:HB3	2.53	0.43
1:UF:66:MET:CE	1:UF:147:MET:HG2	2.48	0.43
1:UF:395:LEU:HD23	1:UF:395:LEU:HA	1.92	0.43
1:UH:19:LYS:HZ3	1:UH:227:HIS:HB2	1.84	0.43
2:UI:69:ASP:OD2	2:UI:71:GLU:HG3	2.19	0.43
2:UI:271:SER:HA	2:UI:302:LEU:HD13	2.00	0.43
2:UI:371:VAL:HG12	8:0J:361:ARG:NH2	2.34	0.43
1:V:392:LYS:HE2	1:V:392:LYS:HB2	1.80	0.43
2:VC:269:LEU:HD21	2:VC:384:ILE:HD13	2.01	0.43
1:VD:314:SER:HB3	1:VD:368:ILE:HB	2.01	0.43
2:VE:80:THR:O	30:1o:172:ARG:NH2	2.42	0.43
2:VG:268:VAL:HG21	2:VG:378:ILE:HG13	2.00	0.43
1:VH:313:ALA:HB1	1:VH:367:PHE:CE1	2.51	0.43
2:VI:264:ARG:NH1	2:VI:424:ASP:OD1	2.50	0.43
1:VJ:141:GLY:HA3	69:VJ:500:GDP:O3A	2.19	0.43
2:VK:60:LYS:HE2	2:WK:282:TYR:HD2	1.83	0.43
1:VL:115:SER:O	1:VL:119:VAL:HG23	2.19	0.43
1:VL:345:ILE:HB	1:VL:348:ASN:HD21	1.84	0.43
2:VM:76:ASP:OD1	2:VM:79:ARG:NH1	2.52	0.43
1:W:222:PHE:O	1:W:226:ASN:ND2	2.51	0.43
1:W:267:MET:HE1	1:W:299:MET:HE2	2.01	0.43
2:WA:188:VAL:HG23	2:WA:425:LEU:HD22	2.01	0.43
2:WC:204:LEU:HD12	2:WC:231:ILE:HG12	2.00	0.43
2:WG:189:LEU:HD21	2:WG:418:PHE:CD1	2.54	0.43
1:WJ:204:ASN:OD1	69:WJ:500:GDP:O2'	2.27	0.43
2:WK:70:LEU:HD22	2:WK:110:ILE:HG22	2.00	0.43
1:WL:183:TYR:HE2	1:WL:394:PHE:HB2	1.83	0.43
1:WL:230:ALA:HA	1:WL:233:MET:HB2	2.01	0.43
1:WL:330:MET:HA	1:WL:333:VAL:HG23	2.00	0.43
1:WL:399:THR:HA	1:WL:403:MET:O	2.19	0.43
2:WM:201:ALA:O	2:WM:268:VAL:HG22	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:XN:191:MET:HE1	5:XN:230:VAL:HA	2.00	0.43
6:0A:137:ASP:HB3	6:0A:140:VAL:HG23	2.00	0.43
8:0G:256:ASN:O	8:0G:259:GLN:HG3	2.19	0.43
8:0I:131:MET:O	8:0I:135:ILE:HG12	2.18	0.43
9:0L:297:TYR:HB2	9:0L:309:VAL:CG2	2.49	0.43
9:0L:438:VAL:HG11	9:0L:474:ILE:HD11	2.00	0.43
9:0L:450:ALA:HB2	9:0L:459:GLU:OE2	2.19	0.43
9:0N:336:PHE:HB3	14:0d:25:PHE:HE1	1.82	0.43
9:0O:307:TYR:HA	9:0O:317:ARG:O	2.18	0.43
10:0R:65:ASN:CB	47:3D:118:GLN:HG3	2.49	0.43
11:0U:117:GLN:HG2	11:0U:157:LYS:HD3	2.00	0.43
12:0W:101:THR:HG23	12:0W:103:GLU:HG2	2.01	0.43
15:0f:209:ARG:NH1	20:0t:151:GLU:HG2	2.34	0.43
16:0k:312:PHE:HB2	16:0k:467:PRO:HG2	2.01	0.43
16:0k:459:ILE:O	16:0k:463:THR:HB	2.19	0.43
17:0m:68:LEU:HA	17:0m:71:VAL:HG22	2.00	0.43
17:0m:129:GLU:HA	17:0m:132:LYS:HG2	2.00	0.43
17:0n:80:LEU:HD23	17:0o:404:ARG:HG3	2.01	0.43
23:1D:53:LYS:HZ1	23:1E:395:ARG:C	2.26	0.43
24:1H:338:TYR:CD1	24:1H:349:LEU:HD22	2.54	0.43
24:1I:655:ALA:HB2	24:1I:714:ALA:HB1	2.01	0.43
24:1J:245:ARG:HG3	24:1J:245:ARG:NH1	2.34	0.43
24:1J:344:ARG:HD3	24:1J:344:ARG:HA	1.84	0.43
24:1K:258:ASP:HB3	24:1K:384:ALA:HB1	2.00	0.43
24:1K:287:PHE:CZ	24:1K:351:LEU:HD11	2.53	0.43
24:1K:673:PHE:HA	24:1K:676:GLU:OE1	2.18	0.43
25:1O:417:SER:OG	25:1O:418:VAL:N	2.52	0.43
26:1Q:428:PHE:O	26:1Q:445:LEU:HD12	2.19	0.43
27:1S:275:PHE:O	27:1S:279:GLY:HA3	2.19	0.43
28:1d:238:ALA:O	28:1d:241:VAL:HG12	2.18	0.43
28:1g:254:LEU:CB	28:1h:19:VAL:HG21	2.48	0.43
22:1w:226:ARG:O	22:1w:230:GLN:HG2	2.18	0.43
22:1x:58:LYS:HB3	48:3G:48:MET:SD	2.58	0.43
22:1y:151:LEU:HD22	48:3I:59:ALA:HB1	1.99	0.43
33:2G:136:ARG:HG2	33:2G:136:ARG:HH11	1.83	0.43
34:2L:85:GLN:O	34:2L:89:LEU:HD23	2.18	0.43
36:2Q:178:VAL:HA	36:2Q:236:ILE:O	2.18	0.43
37:2S:178:ALA:HB1	54:3Z:316:ASN:O	2.19	0.43
39:2X:116:ARG:HA	39:2X:119:GLU:OE1	2.18	0.43
41:2e:345:ARG:HA	41:2e:348:MET:HG2	2.00	0.43
41:2k:167:GLN:HA	41:2k:170:GLU:OE1	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:2t:320:MET:HB2	43:2t:320:MET:HE3	1.80	0.43
45:2z:70:PRO:CG	49:3Q:206:VAL:O	2.66	0.43
46:3B:68:VAL:HG13	46:3B:72:LYS:HB3	2.01	0.43
49:3P:330:LEU:HA	49:3P:359:LEU:HD11	2.01	0.43
49:3Q:73:ASP:HB3	49:3Q:144:VAL:HG23	2.01	0.43
49:3Q:310:LEU:O	49:3Q:314:ILE:HG12	2.19	0.43
54:3Z:316:ASN:OD1	54:3Z:338:HIS:HB2	2.19	0.43
57:3g:139:ILE:HD11	57:3g:144:LEU:HD13	2.01	0.43
65:5G:229:ALA:O	65:5G:233:ILE:HD12	2.19	0.43
67:5O:28:LEU:HB3	67:5O:50:PHE:HB3	2.00	0.43
67:5O:33:TYR:CE1	67:5O:37:GLY:HA2	2.54	0.43
1:A:16:ILE:HD11	1:A:229:VAL:CG1	2.49	0.43
1:A:66:MET:HB3	1:A:147:MET:HE3	2.00	0.43
2:AC:332:ILE:HD13	2:AC:332:ILE:HA	1.88	0.43
1:AD:345:ILE:HG23	2:AE:398:MET:HE3	2.00	0.43
1:AH:204:ASN:OD1	69:AH:500:GDP:O2'	2.36	0.43
1:AJ:385:PHE:HZ	1:AJ:408:PHE:HD2	1.66	0.43
2:AK:200:VAL:HG23	2:AK:256:GLN:HG3	2.01	0.43
2:AK:265:ILE:HG22	2:AK:380:ASN:ND2	2.34	0.43
1:AL:105:HIS:ND1	1:AL:150:LEU:HB2	2.34	0.43
1:AL:409:THR:HA	1:AL:412:GLU:OE1	2.19	0.43
2:BC:174:SER:OG	2:BC:207:GLU:OE1	2.37	0.43
2:BC:189:LEU:HD11	2:BC:413:MET:HE1	2.00	0.43
2:BC:236:SER:HA	2:BC:239:THR:HG22	2.00	0.43
2:BE:319:TYR:HB3	2:BE:323:VAL:HG21	2.00	0.43
1:BF:31:ASP:OD1	1:BF:35:THR:OG1	2.32	0.43
1:BH:21:TRP:CZ3	1:BH:61:PRO:HB3	2.53	0.43
1:BH:322:SER:OG	2:BI:221:ARG:HB3	2.19	0.43
2:BI:115:VAL:HG22	2:BI:119:LEU:HD23	2.01	0.43
2:BM:3:GLU:HG2	2:BM:64:ARG:NH1	2.33	0.43
1:BN:131:GLN:OE1	1:BN:250:LEU:HD22	2.19	0.43
1:BN:313:ALA:HB1	1:BN:367:PHE:CE1	2.54	0.43
1:CA:28:HIS:ND1	1:CA:43:GLN:O	2.41	0.43
2:CB:102:ASN:HD22	2:CB:411:GLU:HG3	1.83	0.43
1:CC:289:LEU:O	1:CC:293:MET:HB2	2.19	0.43
2:CD:240:ALA:O	2:CD:356:ASN:ND2	2.52	0.43
2:CD:422:ARG:HG3	2:CD:422:ARG:NH1	2.33	0.43
1:CE:131:GLN:HE22	1:CE:249:ASP:HB2	1.84	0.43
1:CE:242:PHE:HB2	1:CE:354:CYS:SG	2.59	0.43
2:CF:154:LEU:HD12	2:CF:197:HIS:O	2.19	0.43
2:CH:189:LEU:HD13	2:CH:413:MET:HE1	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CJ:310:GLY:HA3	2:CJ:383:ALA:HB2	2.01	0.43
1:CK:414:ASN:HD22	1:CK:414:ASN:C	2.27	0.43
2:CL:247:ALA:O	2:CL:248:LEU:HD23	2.18	0.43
1:CM:276:ARG:HH12	24:1K:331:GLU:H	1.67	0.43
1:DA:289:LEU:HD11	1:DA:363:MET:HG3	2.01	0.43
1:DA:321:MET:HE3	1:DA:326:VAL:HG11	2.01	0.43
2:DF:79:ARG:O	2:DF:84:ARG:HG3	2.18	0.43
1:DG:130:LEU:HD22	1:DG:162:ARG:HD3	2.01	0.43
1:DG:175:VAL:O	1:DG:175:VAL:HG12	2.19	0.43
1:DI:316:LEU:HB2	1:DI:366:THR:OG1	2.19	0.43
1:DK:309:ARG:H	1:DK:372:THR:HG1	1.60	0.43
1:DK:322:SER:CB	2:DL:221:ARG:HB2	2.48	0.43
1:DM:260:PHE:HB2	1:DM:263:LEU:HD13	2.01	0.43
1:DM:334:GLN:HE21	1:DM:349:ILE:HG22	1.83	0.43
1:DM:408:PHE:O	1:DM:412:GLU:OE1	2.37	0.43
1:EB:262:ARG:HG2	1:EB:262:ARG:HH11	1.84	0.43
1:EB:350:LYS:HA	2:EC:179:THR:O	2.18	0.43
2:EC:141:VAL:HG11	2:EC:194:LEU:HD11	2.00	0.43
2:EE:213:THR:HA	2:EE:217:LEU:HD23	2.01	0.43
2:EI:103:TYR:HD2	2:EI:413:MET:HE1	1.83	0.43
2:EI:172:TYR:CD2	2:EI:203:MET:HE1	2.54	0.43
1:EL:200:MET:HG2	1:EL:266:PHE:HB2	2.01	0.43
1:EL:299:MET:HE1	1:EL:367:PHE:HD2	1.83	0.43
1:F:158:GLU:HG2	1:F:159:TYR:CE1	2.54	0.43
2:FA:309:HIS:ND1	2:FA:386:GLU:OE2	2.52	0.43
2:FA:328:VAL:O	2:FA:332:ILE:HG12	2.19	0.43
2:FC:173:PRO:HG3	2:FC:183:GLU:HG2	1.99	0.43
1:FD:141:GLY:O	1:FD:145:SER:OG	2.35	0.43
2:FE:387:VAL:HG12	2:FE:390:ARG:NH2	2.31	0.43
1:FF:20:PHE:CD1	1:FF:233:MET:HE2	2.53	0.43
2:FG:221:ARG:HB2	42:2r:362:PHE:HA	2.00	0.43
1:FH:253:LEU:O	1:FH:257:LEU:HB2	2.19	0.43
2:FI:6:CYS:O	2:FI:65:CYS:HA	2.19	0.43
2:FI:288:VAL:HB	2:FI:327:ASP:HB3	2.01	0.43
2:FK:211:ASP:O	2:FK:215:ARG:HG2	2.19	0.43
1:FL:21:TRP:CZ3	1:FL:61:PRO:HB3	2.54	0.43
2:GA:172:TYR:CD1	2:GA:203:MET:HG3	2.54	0.43
2:GA:218:ASP:OD2	59:4O:100:LYS:HD2	2.18	0.43
1:GB:113:ILE:O	1:GB:117:LEU:HD23	2.19	0.43
1:GD:274:THR:HG21	1:GD:282:ARG:HH22	1.83	0.43
1:GD:350:LYS:HG3	2:GE:179:THR:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GD:371:ASN:OD1	1:GD:372:THR:N	2.51	0.43
1:GD:385:PHE:CZ	1:GD:389:PHE:HB2	2.54	0.43
1:GF:424:GLN:HA	1:GF:427:ASP:OD1	2.19	0.43
1:GH:178:THR:HG22	1:GH:179:VAL:H	1.84	0.43
2:GK:56:THR:HG22	2:GK:60:LYS:O	2.18	0.43
1:GL:244:GLY:HA3	1:GL:354:CYS:HA	2.00	0.43
1:H:139:LEU:HA	1:H:145:SER:HB3	2.00	0.43
1:H:342:ILE:HD12	1:H:344:TRP:CE2	2.54	0.43
2:HC:195:LEU:HD11	2:HC:428:LEU:HD11	2.01	0.43
2:HE:251:ASP:N	2:HE:254:GLU:HB3	2.33	0.43
1:HF:4:ILE:HB	1:HF:50:TYR:HE1	1.83	0.43
1:HF:375:GLN:H	1:HF:375:GLN:HG3	1.69	0.43
1:HH:233:MET:O	1:HH:236:VAL:HG12	2.18	0.43
1:HH:272:PRO:HD2	1:HH:361:LEU:HD23	2.00	0.43
1:HH:324:LYS:HG3	2:HI:222:PRO:HD2	2.01	0.43
2:HI:195:LEU:HD22	2:HI:428:LEU:HD21	2.00	0.43
1:HJ:256:ASN:HD22	1:HJ:350:LYS:HD2	1.84	0.43
1:HL:116:VAL:HA	1:HL:119:VAL:HG12	2.01	0.43
1:HL:186:THR:HG22	1:HL:415:MET:CE	2.45	0.43
1:HL:347:ASN:C	1:HL:347:ASN:HD22	2.25	0.43
2:HM:31:GLN:OE1	2:HM:37:PRO:HD3	2.18	0.43
2:HM:262:TYR:HB2	2:HM:265:ILE:CG1	2.48	0.43
2:HM:370:LYS:NZ	17:0n:89:LEU:HA	2.34	0.43
1:I:346:PRO:HD2	2:IA:398:MET:HG3	1.99	0.43
2:IA:422:ARG:HH12	2:IA:426:ALA:HB2	1.84	0.43
2:IC:285:GLN:NE2	2:IC:287:SER:HB2	2.34	0.43
1:ID:167:PHE:CZ	1:ID:233:MET:HG2	2.54	0.43
1:IF:249:ASP:O	1:IF:252:LYS:HB3	2.19	0.43
1:IH:2:ARG:HH21	1:IH:240:LEU:HD23	1.83	0.43
2:II:339:ARG:HD3	2:II:339:ARG:H	1.83	0.43
2:IK:178:SER:HB2	2:IK:183:GLU:OE1	2.19	0.43
2:IK:215:ARG:HH22	2:IK:300:GLY:HA2	1.84	0.43
1:IL:34:GLY:HA2	1:IL:84:LEU:HD13	2.01	0.43
2:JD:69:ASP:OD1	2:JD:70:LEU:N	2.52	0.43
2:JD:188:VAL:HG12	2:JD:421:ALA:HB1	1.99	0.43
1:JG:22:GLU:HA	1:JG:81:TYR:CD2	2.54	0.43
1:JG:247:ASN:OD1	2:JH:11:GLN:NE2	2.52	0.43
1:JG:276:ARG:HG2	47:3D:49:GLU:OE2	2.19	0.43
2:JH:211:ASP:HA	2:JH:214:ARG:HG2	2.00	0.43
2:JH:377:MET:HE2	2:JH:377:MET:HB3	1.91	0.43
1:JI:245:GLN:HG3	52:3U:153:THR:HG21	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JJ:138:PHE:HE2	2:JJ:235:VAL:HG11	1.83	0.43
1:JK:66:MET:HB3	1:JK:147:MET:HE3	2.00	0.43
2:JL:172:TYR:CD1	2:JL:203:MET:HG3	2.54	0.43
2:JL:201:ALA:HB3	2:JL:267:PHE:CD1	2.54	0.43
2:JN:2:ARG:NH2	2:JN:47:ASP:O	2.52	0.43
2:K:233:GLN:HG3	2:K:368:LEU:HD12	2.00	0.43
1:KA:234:SER:O	1:KA:241:ARG:NH1	2.39	0.43
1:KC:270:PHE:O	1:KC:298:ASN:ND2	2.48	0.43
2:KD:417:GLU:HG2	31:1q:60:LEU:HD21	2.01	0.43
1:KE:113:ILE:HA	1:KE:116:VAL:HB	2.01	0.43
1:KE:324:LYS:H	2:KF:221:ARG:HH22	1.66	0.43
1:KG:208:TYR:O	1:KG:212:PHE:CB	2.66	0.43
1:KG:226:ASN:OD1	69:KG:500:GDP:N1	2.33	0.43
1:KG:306:ARG:HG3	1:KG:340:TYR:CE1	2.50	0.43
2:KH:145:THR:OG1	71:KH:501:GTP:O2G	2.33	0.43
1:KK:170:ILE:N	1:KK:202:ILE:O	2.51	0.43
2:KL:388:PHE:HA	2:KL:391:ILE:HG22	2.00	0.43
1:KM:247:ASN:OD1	2:KN:11:GLN:HG3	2.19	0.43
1:LA:167:PHE:CD2	1:LA:233:MET:HE2	2.54	0.43
2:LF:254:GLU:OE1	1:LG:99:ASN:HB2	2.19	0.43
2:LF:429:GLU:HB3	22:1x:65:THR:HG23	2.01	0.43
1:LG:227:HIS:CE1	25:1O:27:ILE:HG12	2.54	0.43
2:LJ:55:GLU:CD	2:LJ:57:GLY:H	2.27	0.43
2:LJ:430:LYS:HG2	22:0z:142:THR:C	2.44	0.43
1:LM:83:GLN:O	1:ML:281:TYR:OH	2.25	0.43
2:LN:208:ALA:HB2	2:LN:304:LYS:HG2	2.01	0.43
2:LN:212:LEU:HD11	2:LN:275:VAL:HG11	2.00	0.43
2:MC:173:PRO:HG3	2:MC:183:GLU:CG	2.47	0.43
2:ME:167:LEU:HD21	2:ME:255:PHE:CE1	2.53	0.43
2:ME:328:VAL:O	2:ME:332:ILE:HG12	2.18	0.43
2:ME:425:LEU:O	2:ME:425:LEU:HD23	2.19	0.43
1:MH:139:LEU:HD22	1:MH:188:SER:HB2	2.01	0.43
1:MH:186:THR:HA	1:MH:189:VAL:HG22	2.01	0.43
2:MI:173:PRO:HG3	2:MI:183:GLU:HG2	2.00	0.43
1:MJ:309:ARG:H	1:MJ:372:THR:HG1	1.63	0.43
1:MJ:371:ASN:O	1:MJ:374:ILE:HG12	2.19	0.43
2:MK:292:THR:HA	2:MK:295:VAL:HG12	1.99	0.43
2:MK:297:GLU:HG3	2:MK:299:ALA:H	1.84	0.43
2:MK:319:TYR:CG	2:MK:323:VAL:HG11	2.54	0.43
1:ML:330:MET:SD	1:ML:349:ILE:HG21	2.58	0.43
2:MM:150:GLY:O	2:MM:154:LEU:HD23	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:421:GLU:HA	1:N:424:GLN:HG3	2.01	0.43
2:NA:195:LEU:HD21	2:NA:264:ARG:HE	1.83	0.43
2:NA:271:SER:OG	2:NA:295:VAL:HG13	2.18	0.43
2:NE:3:GLU:HA	2:NE:51:THR:HA	1.99	0.43
2:NE:310:GLY:HA3	2:NE:383:ALA:HB2	2.00	0.43
2:NE:377:MET:SD	2:NE:379:ALA:HB2	2.59	0.43
1:NF:50:TYR:OH	1:NF:237:THR:OG1	2.22	0.43
1:NH:173:PRO:HD3	1:NH:380:ARG:HH11	1.83	0.43
1:NH:268:MET:O	1:NH:299:MET:HE2	2.18	0.43
1:NJ:247:ASN:OD1	2:NK:11:GLN:NE2	2.52	0.43
2:NM:164:LYS:HD3	2:NM:165:SER:H	1.83	0.43
2:NM:340:THR:OG1	2:NM:341:ILE:HD12	2.18	0.43
2:OA:199:ASP:HB3	2:OA:256:GLN:NE2	2.33	0.43
1:OB:200:MET:CB	1:OB:268:MET:HE3	2.48	0.43
2:OC:145:THR:HG22	71:OC:501:GTP:PG	2.59	0.43
2:OC:254:GLU:HA	1:OD:98:GLY:HA2	2.01	0.43
2:OC:271:SER:OG	2:OC:377:MET:HB3	2.19	0.43
2:OC:346:TRP:CG	1:OD:391:ARG:HD2	2.54	0.43
1:OD:245:GLN:OE1	2:OE:223:SER:OG	2.33	0.43
2:OE:311:LYS:HE2	2:OE:342:GLN:HG2	2.01	0.43
2:OG:164:LYS:HA	2:OG:164:LYS:HD3	1.80	0.43
2:OI:68:LEU:HG	2:OI:149:LEU:HD21	2.01	0.43
1:OL:252:LYS:HA	2:OM:100:ALA:HB1	2.01	0.43
2:OM:25:CYS:HB3	2:OM:30:ILE:O	2.18	0.43
1:P:25:SER:HB2	1:P:81:TYR:HE2	1.84	0.43
1:P:167:PHE:HD1	1:P:200:MET:SD	2.42	0.43
1:P:323:THR:HG22	2:PA:223:SER:HA	2.01	0.43
1:PD:344:TRP:HB3	1:PD:430:VAL:HG12	2.00	0.43
1:PF:323:THR:HG21	2:PG:224:TYR:CE1	2.54	0.43
2:PG:67:PHE:HB2	2:PG:92:LEU:HD12	2.00	0.43
2:PG:122:ILE:HG21	2:PG:157:LEU:HD21	2.01	0.43
1:PH:391:ARG:NH1	58:3m:21:ARG:HE	2.17	0.43
2:PI:18:ASN:HD21	2:PI:78:VAL:HG22	1.84	0.43
2:PI:167:LEU:HD21	2:PI:252:LEU:HD12	1.99	0.43
1:PJ:19:LYS:O	1:PJ:23:VAL:HG23	2.19	0.43
1:PJ:66:MET:HE3	1:PJ:66:MET:HB2	1.94	0.43
1:PJ:186:THR:HG21	1:PJ:385:PHE:CG	2.54	0.43
1:PJ:316:LEU:HB2	1:PJ:366:THR:OG1	2.18	0.43
2:PK:26:LEU:HD21	28:1e:50:LYS:HB2	1.99	0.43
1:PL:9:ALA:HA	1:PL:66:MET:O	2.19	0.43
1:PL:259:PRO:HA	2:PM:404:PHE:CD1	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PL:374:ILE:HD11	1:PL:422:TYR:CZ	2.54	0.43
2:Q:40:LYS:HD2	2:Q:40:LYS:HA	1.85	0.43
2:Q:298:PRO:O	2:Q:301:MET:HG2	2.18	0.43
1:QA:186:THR:HG21	1:QA:385:PHE:CG	2.53	0.43
1:QC:32:PRO:HG3	1:QC:81:TYR:CE1	2.54	0.43
1:QC:45:GLU:OE1	1:QC:46:ARG:HG2	2.19	0.43
2:QJ:352:LYS:HD2	2:QJ:353:CYS:H	1.84	0.43
1:QK:13:GLY:O	1:QK:16:ILE:HG12	2.19	0.43
2:QL:269:LEU:HD22	2:QL:303:THR:OG1	2.19	0.43
1:RA:170:ILE:HG21	1:RA:377:MET:SD	2.59	0.43
2:RB:36:MET:HE1	2:RB:61:HIS:NE2	2.34	0.43
1:RC:247:ASN:HD22	2:RD:73:THR:HG23	1.84	0.43
1:RC:342:ILE:HG22	1:RC:348:ASN:HD21	1.84	0.43
2:RD:349:THR:OG1	1:RE:179:VAL:HA	2.19	0.43
1:RE:20:PHE:HB2	1:RE:233:MET:HE3	2.01	0.43
1:RG:20:PHE:HA	1:RG:230:ALA:HB1	2.01	0.43
1:RG:301:GLN:HE22	1:RG:303:ALA:HB2	1.84	0.43
1:RK:331:LEU:HD22	2:RL:177:VAL:HB	2.01	0.43
2:SA:36:MET:HE1	2:SA:49:PHE:CD1	2.54	0.43
1:SF:113:ILE:HG13	1:SF:117:LEU:HD23	2.01	0.43
1:SF:232:VAL:HG21	1:SF:268:MET:HG2	2.01	0.43
2:TA:265:ILE:HG23	2:TA:432:TYR:CE1	2.54	0.43
1:TD:334:GLN:HE21	1:TD:347:ASN:HA	1.84	0.43
2:TE:377:MET:HE2	2:TE:377:MET:HB3	1.96	0.43
1:TF:317:PHE:HD2	1:TF:321:MET:HE1	1.82	0.43
2:TI:139:HIS:O	2:TI:170:THR:HA	2.19	0.43
2:TI:238:LEU:HD21	2:TI:255:PHE:CZ	2.53	0.43
1:TJ:403:MET:HE2	1:TJ:403:MET:HB3	1.81	0.43
2:TK:205:ASP:OD1	2:TK:303:THR:HA	2.19	0.43
1:UB:342:ILE:HD11	1:UB:345:ILE:HD12	2.01	0.43
2:UC:234:VAL:HG21	2:UC:302:LEU:HD21	2.01	0.43
2:UC:252:LEU:HA	2:UC:255:PHE:CE1	2.53	0.43
2:UE:105:ARG:HG3	2:UE:105:ARG:HH11	1.83	0.43
2:UG:419:SER:O	2:UG:422:ARG:HB3	2.18	0.43
2:UI:239:THR:OG1	2:UI:243:ARG:NH1	2.52	0.43
2:UK:194:LEU:O	2:UK:198:THR:HG22	2.19	0.43
1:UL:70:PRO:HB3	1:UL:92:PHE:CD2	2.54	0.43
1:V:165:MET:HE2	1:V:198:GLU:OE2	2.18	0.43
1:VD:9:ALA:HB3	1:VD:137:HIS:HB3	2.01	0.43
1:VD:133:PHE:CD2	1:VD:155:LEU:HD13	2.54	0.43
1:VD:371:ASN:OD1	1:VD:372:THR:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VE:80:THR:HG23	30:1o:172:ARG:HH12	1.83	0.43
1:VF:10:GLY:O	1:VF:14:ASN:ND2	2.48	0.43
1:VF:330:MET:SD	1:VF:349:ILE:HG21	2.59	0.43
1:VH:229:VAL:O	1:VH:233:MET:HG3	2.18	0.43
1:VL:26:ASP:O	1:VL:359:LYS:NZ	2.30	0.43
2:VM:9:ILE:HG22	2:VM:146:GLY:HA2	2.00	0.43
1:W:187:LEU:HD21	1:W:408:PHE:CE1	2.54	0.43
1:WB:65:LEU:HB3	1:WB:73:MET:HE1	2.01	0.43
1:WB:68:LEU:HD12	1:WB:97:ALA:HB2	2.01	0.43
2:WE:332:ILE:O	2:WE:336:LYS:HG2	2.18	0.43
1:WF:350:LYS:HD2	2:WG:179:THR:O	2.19	0.43
1:WH:222:PHE:HD1	1:WH:225:LEU:HD12	1.84	0.43
1:WJ:233:MET:O	1:WJ:236:VAL:HG12	2.19	0.43
2:WK:69:ASP:OD1	2:WK:71:GLU:HG3	2.18	0.43
1:WL:234:SER:O	1:WL:241:ARG:NH2	2.49	0.43
2:WM:251:ASP:H	2:WM:254:GLU:HB3	1.84	0.43
3:XE:81:LYS:HD3	3:XE:161:ARG:HD2	2.01	0.43
4:XM:150:VAL:HG11	4:XM:187:ARG:HE	1.84	0.43
6:0A:183:LYS:HE3	6:0A:207:PRO:O	2.19	0.43
8:0I:238:LYS:HA	8:0I:241:ARG:NE	2.34	0.43
9:0L:156:LYS:HZ2	9:0L:156:LYS:HG2	1.58	0.43
9:0M:65:SER:HB3	9:0M:81:VAL:HB	2.00	0.43
9:0M:112:GLN:N	9:0M:126:VAL:O	2.51	0.43
9:0M:371:CYS:SG	9:0M:428:VAL:HG22	2.59	0.43
9:0N:104:MET:HE3	9:0N:104:MET:HB2	1.89	0.43
11:0U:119:LEU:HD11	11:0U:157:LYS:HB2	1.99	0.43
12:0W:163:LYS:HA	12:0W:163:LYS:HE3	2.01	0.43
13:0Z:78:ARG:HG3	13:0Z:78:ARG:HH11	1.84	0.43
14:0c:275:ALA:HA	14:0c:278:ILE:O	2.18	0.43
16:0l:775:VAL:HG22	16:0l:855:GLY:HA2	2.00	0.43
16:0k:281:GLU:H	16:0k:281:GLU:CD	2.26	0.43
16:0k:301:GLU:CD	16:0k:319:ILE:HD12	2.43	0.43
17:0m:100:ARG:HD2	17:0m:101:ASN:N	2.33	0.43
17:0n:76:GLU:O	17:0n:79:SER:OG	2.29	0.43
17:0n:197:ILE:HG22	17:0n:198:MET:HE2	2.00	0.43
20:0u:115:THR:HG23	20:0u:142:TYR:HB2	2.01	0.43
21:0w:176:TYR:O	21:0w:180:LEU:HD23	2.18	0.43
21:0w:482:GLU:O	21:0w:486:ARG:HG2	2.19	0.43
23:1B:336:MET:HA	23:1B:339:ARG:HB3	2.00	0.43
24:1H:533:ARG:O	24:1H:536:GLN:HG3	2.18	0.43
24:1I:244:THR:O	24:1I:248:LEU:HD23	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:1I:479:ARG:HD2	24:1I:481:ASP:HB2	2.00	0.43
24:1J:581:GLU:O	24:1J:585:VAL:HG23	2.18	0.43
26:1Q:86:ALA:HB2	26:1Q:115:PHE:CD2	2.53	0.43
27:1S:283:LEU:HD22	27:1S:396:THR:HG23	2.01	0.43
27:1T:710:ILE:HB	27:1T:713:MET:HE2	2.01	0.43
31:1q:92:VAL:HB	31:1q:108:PRO:HG3	2.01	0.43
31:1q:173:ALA:O	31:1q:176:GLU:HG3	2.18	0.43
31:1r:142:LYS:HB3	39:2X:204:TYR:OH	2.19	0.43
22:1w:144:LYS:HD2	33:2F:220:GLU:OE1	2.18	0.43
22:1x:183:GLU:O	22:1x:187:LEU:HD23	2.19	0.43
33:2F:86:ASN:HA	33:2F:91:ARG:O	2.19	0.43
33:2H:1:MET:HE3	33:2H:95:PHE:CD1	2.53	0.43
37:2S:85:PHE:CD2	37:2S:209:GLY:HA2	2.52	0.43
41:2h:388:ALA:HA	41:2h:391:GLU:HG2	2.01	0.43
41:2k:190:TRP:NE1	41:2k:194:ARG:HE	2.11	0.43
44:2v:221:SER:HB3	44:2v:224:GLY:O	2.19	0.43
44:2w:44:TYR:HD1	44:2w:51:PHE:HB3	1.82	0.43
44:2w:308:ARG:HG3	44:2w:395:PHE:CD1	2.53	0.43
47:3D:68:ARG:N	47:3D:69:PRO:HD3	2.34	0.43
48:3L:431:GLN:HA	48:3L:434:GLU:OE1	2.18	0.43
58:3m:153:GLU:O	58:3m:157:HIS:ND1	2.39	0.43
60:3s:128:ALA:HA	60:3s:131:PHE:HB2	2.01	0.43
65:5H:212:LEU:HB3	65:5H:216:ARG:NH2	2.34	0.43
1:A:221:THR:O	1:A:225:LEU:HG	2.19	0.43
1:AD:295:ASP:OD2	1:AD:297:LYS:NZ	2.51	0.43
2:AE:195:LEU:HD21	2:AE:428:LEU:HD22	2.01	0.43
1:AH:252:LYS:HB2	2:AI:100:ALA:HA	2.01	0.43
1:AH:340:TYR:CE1	5:XP:115:GLY:HA2	2.54	0.43
2:AK:395:PHE:CD2	2:AK:422:ARG:HD3	2.54	0.43
1:AN:3:GLU:HA	1:AN:49:VAL:HA	2.00	0.43
1:AN:8:GLN:CG	1:AN:17:GLY:HA3	2.49	0.43
1:AN:320:ARG:NH2	54:4Y:247:THR:HG22	2.33	0.43
1:B:256:ASN:O	1:B:312:THR:HG21	2.19	0.43
1:B:267:MET:HE1	1:B:373:CYS:SG	2.59	0.43
2:BA:7:ILE:HG21	2:BA:153:LEU:HD21	1.99	0.43
2:BA:150:GLY:O	2:BA:154:LEU:HD23	2.19	0.43
2:BC:270:THR:HG22	2:BC:378:ILE:HD13	2.01	0.43
2:BE:21:TRP:CZ2	2:BE:65:CYS:HB3	2.54	0.43
2:BE:150:GLY:O	2:BE:154:LEU:HD23	2.18	0.43
2:BE:326:LYS:HZ1	1:BF:219:THR:HA	1.83	0.43
2:BG:91:GLN:HA	2:BG:121:ARG:HG2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BG:259:LEU:HD21	2:BG:316:CYS:HB2	2.00	0.43
2:BI:3:GLU:O	2:BI:133:GLN:N	2.34	0.43
2:BI:352:LYS:HA	1:BJ:177:ASP:C	2.43	0.43
1:BJ:294:PHE:CE2	1:BJ:333:VAL:HG11	2.53	0.43
1:BL:317:PHE:CD1	1:BL:321:MET:HE1	2.54	0.43
2:BM:139:HIS:O	2:BM:170:THR:HA	2.19	0.43
2:BM:209:ILE:HD13	2:BM:227:VAL:HG13	2.00	0.43
2:BM:348:PRO:HG3	1:BN:384:GLN:HG2	2.01	0.43
1:CA:36:TYR:HE2	27:1S:780:THR:HG21	1.83	0.43
2:CB:195:LEU:HA	2:CB:266:HIS:CE1	2.53	0.43
2:CD:325:PRO:O	2:CD:328:VAL:HG22	2.19	0.43
2:CF:275:VAL:O	2:CF:275:VAL:HG13	2.19	0.43
1:CG:313:ALA:HB1	1:CG:367:PHE:HE1	1.83	0.43
1:CG:405:GLU:OE1	1:CG:405:GLU:HA	2.18	0.43
1:CI:424:GLN:HA	1:CI:427:ASP:OD1	2.19	0.43
1:CK:91:ILE:HD11	1:CK:116:VAL:HG22	1.99	0.43
2:CL:7:ILE:HG21	2:CL:153:LEU:HD21	2.00	0.43
2:CL:217:LEU:HG	2:CL:275:VAL:HG22	2.01	0.43
1:CM:8:GLN:HB2	1:CM:65:LEU:HD23	2.00	0.43
1:DA:178:THR:HG22	1:DA:180:VAL:N	2.31	0.43
1:DA:236:VAL:HA	1:DA:316:LEU:HD12	2.01	0.43
1:DA:377:MET:HA	1:DA:380:ARG:HE	1.84	0.43
2:DB:75:VAL:O	2:DB:79:ARG:HG3	2.19	0.43
2:DD:263:PRO:HD3	1:DE:396:HIS:CD2	2.54	0.43
1:DE:324:LYS:HZ1	2:DF:210:TYR:HB3	1.82	0.43
1:DG:172:SER:OG	1:DG:205:GLU:OE1	2.31	0.43
1:DI:324:LYS:HD2	2:DJ:222:PRO:O	2.18	0.43
1:DK:163:ILE:HD11	1:DK:251:ARG:HG3	2.00	0.43
2:DL:171:VAL:HG23	2:DL:171:VAL:O	2.19	0.43
1:DM:292:GLN:HG2	1:DM:298:ASN:ND2	2.34	0.43
1:E:3:GLU:HG2	1:E:62:ARG:CZ	2.49	0.43
2:EA:338:LYS:NZ	2:EA:340:THR:HG1	2.14	0.43
1:EB:45:GLU:HG2	1:EB:46:ARG:HH11	1.84	0.43
1:ED:175:VAL:HG12	1:ED:175:VAL:O	2.18	0.43
1:ED:375:GLN:HB2	1:ED:419:VAL:HG13	2.00	0.43
1:ED:385:PHE:HE2	1:ED:412:GLU:HB2	1.84	0.43
1:ED:385:PHE:CE2	1:ED:412:GLU:HB2	2.53	0.43
2:EE:47:ASP:N	2:EE:47:ASP:OD1	2.51	0.43
1:EF:193:VAL:HG22	1:EF:265:PHE:HE1	1.83	0.43
2:EK:3:GLU:O	2:EK:133:GLN:N	2.35	0.43
1:EL:163:ILE:O	1:EL:164:MET:HE2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FA:99:ALA:HA	2:FA:110:ILE:HD11	2.00	0.43
1:FB:73:MET:HA	1:FB:73:MET:HE3	2.01	0.43
1:FB:276:ARG:HD3	27:1S:493:ASP:OD2	2.19	0.43
2:FE:275:VAL:O	2:FE:275:VAL:HG13	2.19	0.43
2:FK:102:ASN:HB3	2:FK:105:ARG:HB3	1.99	0.43
2:FK:271:SER:OG	2:FK:377:MET:HB3	2.18	0.43
2:FK:398:MET:HE3	2:FK:398:MET:HB2	1.86	0.43
1:FL:342:ILE:HB	1:FL:348:ASN:HD21	1.83	0.43
2:GA:103:TYR:HD1	2:GA:189:LEU:HB3	1.84	0.43
2:GA:205:ASP:CG	2:GA:304:LYS:HZ1	2.27	0.43
1:GD:294:PHE:CE2	1:GD:333:VAL:HG11	2.54	0.43
1:GF:20:PHE:HB2	1:GF:233:MET:HE3	2.00	0.43
1:GF:87:PRO:HD3	1:HF:281:TYR:CD1	2.54	0.43
1:GF:110:ALA:O	1:GF:113:ILE:HG22	2.18	0.43
2:GG:9:ILE:HG22	2:GG:146:GLY:HA2	2.01	0.43
2:GG:156:ARG:NH1	65:5H:109:LYS:HB2	2.33	0.43
2:GI:391:ILE:HD12	2:GI:391:ILE:HA	1.87	0.43
1:GL:280:GLN:HG3	1:GL:281:TYR:CD1	2.54	0.43
1:H:97:ALA:HA	1:H:103:LYS:HE3	2.01	0.43
1:H:339:SER:N	64:5B:91:LYS:HE3	2.28	0.43
1:HB:215:LEU:HB3	1:HB:217:LEU:HG	2.00	0.43
2:HC:233:GLN:NE2	2:HC:361:THR:O	2.52	0.43
2:HE:31:GLN:HG2	2:HE:37:PRO:HD3	2.01	0.43
2:HE:425:LEU:O	2:HE:428:LEU:HB2	2.18	0.43
1:HF:221:THR:HG23	1:HF:223:GLY:H	1.83	0.43
2:HI:101:ASN:ND2	2:HI:143:GLY:HA2	2.34	0.43
2:HI:223:SER:OG	2:HI:224:TYR:N	2.52	0.43
2:HI:231:ILE:O	2:HI:235:VAL:HG23	2.18	0.43
2:HI:310:GLY:HA3	2:HI:383:ALA:HB2	2.01	0.43
1:HJ:303:ALA:HB2	1:HJ:377:MET:SD	2.59	0.43
2:HK:324:VAL:HG13	2:HK:327:ASP:H	1.83	0.43
1:I:142:GLY:N	69:I:500:GDP:O3B	2.52	0.43
2:IC:77:GLU:OE2	38:2U:194:GLU:HG3	2.18	0.43
2:IC:185:TYR:CZ	2:IC:398:MET:HB3	2.54	0.43
2:IC:275:VAL:HG23	2:IC:368:LEU:HD11	1.99	0.43
1:ID:316:LEU:HB2	1:ID:366:THR:OG1	2.19	0.43
2:IE:188:VAL:HG11	2:IE:395:PHE:CD2	2.54	0.43
1:IH:244:GLY:HA3	1:IH:354:CYS:HA	1.99	0.43
1:IL:139:LEU:HG	1:IL:168:SER:OG	2.18	0.43
1:IL:153:SER:HA	1:IL:195:ASN:ND2	2.34	0.43
1:IL:200:MET:SD	1:IL:368:ILE:HD12	2.59	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IM:103:TYR:CD1	2:IM:189:LEU:HD23	2.53	0.43
2:IM:122:ILE:HD13	2:IM:122:ILE:HA	1.85	0.43
2:J:213:THR:HB	2:J:219:ILE:HD11	2.01	0.43
2:JB:246:GLY:N	2:JB:249:ASN:HD21	2.17	0.43
2:JB:275:VAL:O	2:JB:275:VAL:HG13	2.19	0.43
2:JB:296:PHE:CE2	2:JB:335:ILE:HG21	2.54	0.43
2:JB:329:ASN:HD21	1:JC:175:VAL:HG13	1.84	0.43
2:JD:127:ASP:OD1	2:JD:128:ASN:N	2.52	0.43
2:JD:316:CYS:HA	2:JD:352:LYS:HB3	2.00	0.43
1:JG:186:THR:O	1:JG:411:ALA:HB1	2.19	0.43
1:JI:299:MET:HE1	1:JI:367:PHE:CE2	2.54	0.43
2:JJ:214:ARG:HH12	2:JJ:220:GLU:HA	1.84	0.43
1:JK:175:VAL:O	1:JK:175:VAL:HG12	2.19	0.43
1:JM:139:LEU:HG	1:JM:168:SER:HB2	2.01	0.43
2:JN:9:ILE:HD13	2:JN:68:LEU:HB3	2.00	0.43
2:JN:236:SER:HA	2:JN:239:THR:HG22	2.01	0.43
2:KF:138:PHE:HE2	2:KF:235:VAL:HG21	1.83	0.43
1:KG:371:ASN:OD1	1:KG:372:THR:N	2.52	0.43
2:KH:326:LYS:HE3	1:KI:220:PRO:HD2	2.01	0.43
1:KI:322:SER:HA	2:KJ:223:SER:HB2	2.00	0.43
2:KJ:251:ASP:H	2:KJ:254:GLU:HB2	1.84	0.43
1:KK:10:GLY:O	1:KK:14:ASN:ND2	2.52	0.43
1:KK:19:LYS:HG3	1:KK:226:ASN:HB2	2.00	0.43
1:KK:133:PHE:CD2	1:KK:155:LEU:HD13	2.54	0.43
1:KK:193:VAL:HA	1:KK:264:HIS:CE1	2.53	0.43
1:KK:272:PRO:HG3	1:KK:289:LEU:HD21	2.01	0.43
2:KL:81:GLY:O	2:KL:84:ARG:HG3	2.18	0.43
2:KN:1:MET:HE2	2:KN:1:MET:HB2	1.84	0.43
2:KN:177:VAL:HG22	2:KN:207:GLU:HG3	2.01	0.43
1:LG:71:GLY:O	25:1O:43:LYS:NZ	2.49	0.43
1:LI:149:THR:HA	1:LI:152:ILE:HG12	2.00	0.43
2:LL:274:PRO:HG2	2:LL:371:VAL:HG21	2.01	0.43
2:LN:174:SER:CB	2:LN:207:GLU:HB2	2.47	0.43
1:LO:194:GLU:HG3	13:0a:101:ARG:HH22	1.84	0.43
1:LO:240:LEU:HD23	1:LO:240:LEU:HA	1.89	0.43
2:MA:275:VAL:O	2:MA:275:VAL:HG13	2.18	0.43
2:MA:279:GLU:O	2:MA:283:HIS:HD2	2.02	0.43
1:MB:121:ARG:NH1	1:MB:121:ARG:HB2	2.34	0.43
1:MJ:259:PRO:HA	2:MK:404:PHE:CE1	2.54	0.43
2:MK:47:ASP:OD1	2:MK:47:ASP:N	2.49	0.43
2:MK:112:LYS:O	2:MK:115:VAL:HG12	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ML:72:THR:O	1:ML:76:VAL:HG23	2.18	0.43
1:ML:141:GLY:O	1:ML:145:SER:OG	2.34	0.43
1:ML:339:SER:HB2	6:0A:110:LEU:HD12	2.01	0.43
2:MM:160:ASP:OD1	2:MM:161:TYR:N	2.51	0.43
2:MM:270:THR:OG1	2:MM:302:LEU:HB2	2.19	0.43
1:NB:256:ASN:HD21	2:NC:101:ASN:HB2	1.84	0.43
2:NC:47:ASP:OD1	2:NC:47:ASP:N	2.50	0.43
2:NC:142:GLY:HA3	2:NC:183:GLU:HG3	2.01	0.43
1:ND:10:GLY:HA2	1:ND:143:THR:HG23	2.01	0.43
1:NF:9:ALA:HB3	1:NF:137:HIS:HB3	2.01	0.43
1:NH:100:ASN:HB3	1:NH:103:LYS:HB3	2.00	0.43
1:NH:173:PRO:HG3	1:NH:384:GLN:HE21	1.84	0.43
1:NH:371:ASN:ND2	1:NH:373:CYS:SG	2.91	0.43
2:NI:184:PRO:HA	2:NI:391:ILE:HD11	2.00	0.43
2:NK:67:PHE:HB2	2:NK:92:LEU:HD13	2.00	0.43
1:NL:8:GLN:O	1:NL:66:MET:HB2	2.19	0.43
1:NL:342:ILE:HD12	1:NL:344:TRP:NE1	2.34	0.43
2:NM:241:SER:HA	2:NM:356:ASN:OD1	2.19	0.43
2:NM:422:ARG:HD2	2:NM:422:ARG:HA	1.88	0.43
1:O:192:LEU:O	1:O:196:SER:HB3	2.19	0.43
1:O:358:PRO:HD2	1:O:364:SER:HB3	2.01	0.43
2:OA:142:GLY:CA	2:OA:183:GLU:HG3	2.49	0.43
2:OA:241:SER:HB2	2:OA:250:VAL:H	1.83	0.43
1:OB:109:GLY:HA2	1:OB:147:MET:HE2	2.01	0.43
2:OC:324:VAL:CG2	2:OC:326:LYS:HE2	2.46	0.43
2:OE:64:ARG:NH1	2:OE:129:CYS:SG	2.92	0.43
2:OE:426:ALA:O	2:OE:430:LYS:HG3	2.19	0.43
1:OF:86:ARG:HG3	1:PF:281:TYR:HB3	2.01	0.43
1:OF:113:ILE:HD12	1:OF:113:ILE:HA	1.89	0.43
2:OG:335:ILE:HG13	2:OG:338:LYS:HG2	2.01	0.43
1:OH:16:ILE:HG22	1:OH:233:MET:HE1	2.01	0.43
2:OI:250:VAL:HG11	2:OI:318:MET:HE1	2.01	0.43
2:OI:250:VAL:CG1	2:OI:318:MET:HE1	2.49	0.43
2:OI:312:TYR:HA	2:OI:381:SER:HB2	2.01	0.43
1:OJ:19:LYS:O	1:OJ:22:GLU:HB3	2.18	0.43
1:OJ:65:LEU:HD22	1:OJ:90:PHE:CE1	2.54	0.43
1:OJ:357:PRO:HB2	1:OJ:361:LEU:O	2.19	0.43
2:OK:325:PRO:HB2	1:OL:208:TYR:OH	2.18	0.43
2:OM:372:GLN:CD	41:2p:465:GLN:HG3	2.44	0.43
1:P:19:LYS:HA	1:P:22:GLU:CG	2.48	0.43
1:PB:249:ASP:OD2	1:PB:252:LYS:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PD:316:LEU:HB2	1:PD:366:THR:OG1	2.18	0.43
1:PF:180:VAL:HG12	1:PF:180:VAL:O	2.19	0.43
1:PF:344:TRP:CE2	2:PG:401:LYS:HD2	2.54	0.43
1:PH:107:THR:HG23	1:PH:108:GLU:HG2	2.01	0.43
2:PI:33:ASP:HA	2:PI:85:GLN:HB2	1.99	0.43
2:PK:99:ALA:HA	2:PK:110:ILE:HD11	2.01	0.43
2:QB:339:ARG:HD3	2:QB:339:ARG:N	2.32	0.43
1:QC:326:VAL:HG21	1:QC:353:ILE:HD11	2.00	0.43
2:QF:304:LYS:HD3	2:QF:304:LYS:HA	1.75	0.43
1:QI:233:MET:O	1:QI:236:VAL:HG12	2.18	0.43
2:QJ:270:THR:HA	2:QJ:377:MET:O	2.19	0.43
2:QJ:390:ARG:O	2:QJ:394:LYS:HG2	2.19	0.43
1:QK:251:ARG:NH1	2:QL:105:ARG:CZ	2.82	0.43
1:QK:261:PRO:HG3	2:QL:406:HIS:CD2	2.53	0.43
2:R:370:LYS:NZ	41:2e:470:ASP:OD2	2.38	0.43
2:R:434:GLU:CG	57:3f:107:GLN:HG3	2.43	0.43
1:RA:112:LEU:HD23	1:RA:116:VAL:HG23	1.99	0.43
1:RA:207:LEU:HD22	1:RA:300:MET:HB2	2.01	0.43
1:RC:190:HIS:HB2	1:RC:414:ASN:HD22	1.84	0.43
2:RD:326:LYS:HZ1	1:RE:208:TYR:HD1	1.67	0.43
1:RE:66:MET:SD	1:RE:151:LEU:HD22	2.59	0.43
1:RG:11:GLN:HA	1:RG:72:THR:HG21	2.01	0.43
1:RG:356:ILE:HD12	28:1Y:74:PHE:HA	2.00	0.43
1:RI:325:GLU:CD	2:RJ:221:ARG:HG3	2.44	0.43
2:RL:184:PRO:HG2	2:RL:398:MET:HE1	2.00	0.43
2:RL:224:TYR:CD2	71:RL:501:GTP:C6	3.06	0.43
1:S:236:VAL:HG23	1:S:368:ILE:HD11	2.01	0.43
1:SB:313:ALA:HB1	1:SB:367:PHE:CE2	2.53	0.43
2:SC:139:HIS:CE1	2:SC:170:THR:HG22	2.54	0.43
1:SD:80:PRO:HG3	28:1U:173:ASP:OD2	2.19	0.43
1:SD:245:GLN:O	2:SE:11:GLN:NE2	2.52	0.43
1:SF:326:VAL:HG11	1:SF:353:ILE:HD11	2.01	0.43
2:SG:70:LEU:HD22	2:SG:110:ILE:HG22	2.00	0.43
2:SG:251:ASP:H	2:SG:254:GLU:CB	2.26	0.43
2:SG:280:LYS:HE2	2:SG:280:LYS:HB3	1.88	0.43
2:SG:402:ARG:NE	2:SG:415:GLU:OE2	2.38	0.43
1:SH:201:CYS:O	1:SH:202:ILE:HD13	2.19	0.43
2:SI:103:TYR:HB3	2:SI:408:TYR:HE2	1.83	0.43
2:SI:213:THR:O	2:SI:217:LEU:HB2	2.19	0.43
1:SJ:198:GLU:HB2	1:SJ:266:PHE:CE2	2.54	0.43
1:SJ:392:LYS:HB2	1:SJ:392:LYS:HE2	1.79	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SK:98:ASP:N	2:SK:98:ASP:OD1	2.49	0.43
1:T:180:VAL:HG23	1:T:184:ASN:OD1	2.19	0.43
2:TA:257:THR:O	1:TB:397:TRP:NE1	2.51	0.43
2:TA:265:ILE:HG23	2:TA:432:TYR:CZ	2.54	0.43
2:TA:358:GLN:NE2	2:TA:359:PRO:O	2.52	0.43
1:TD:241:ARG:HE	1:TD:241:ARG:HB2	1.67	0.43
1:TF:344:TRP:CD1	1:TF:344:TRP:H	2.35	0.43
2:TI:234:VAL:HG13	2:TI:376:CYS:SG	2.58	0.43
2:TI:291:ILE:HD13	2:TI:373:ARG:HG3	2.01	0.43
1:TJ:9:ALA:HA	1:TJ:66:MET:O	2.19	0.43
2:TK:439:SER:HB3	1:TL:391:ARG:HH12	1.84	0.43
1:TL:222:PHE:O	1:TL:226:ASN:ND2	2.51	0.43
1:UB:66:MET:HE3	1:UB:116:VAL:HG21	2.00	0.43
1:UB:232:VAL:HG11	1:UB:268:MET:CG	2.49	0.43
2:UC:155:GLU:HG2	2:UC:197:HIS:ND1	2.33	0.43
1:UD:234:SER:O	1:UD:241:ARG:NH2	2.50	0.43
1:UF:19:LYS:HA	1:UF:19:LYS:HD3	1.87	0.43
1:UF:264:HIS:ND1	1:UF:264:HIS:O	2.51	0.43
1:UF:290:THR:HA	1:UF:293:MET:HB2	2.00	0.43
1:UF:334:GLN:NE2	1:UF:348:ASN:H	2.17	0.43
1:UH:113:ILE:HG12	1:UH:117:LEU:HD23	2.01	0.43
2:VA:265:ILE:HG23	2:VA:432:TYR:CE1	2.54	0.43
2:VC:156:ARG:HA	2:VC:159:VAL:HG12	2.01	0.43
2:VC:311:LYS:HD3	2:VC:342:GLN:HG3	2.01	0.43
2:VC:391:ILE:HD12	2:VC:391:ILE:HA	1.95	0.43
2:VE:349:THR:HG21	1:VF:182:PRO:HD3	2.00	0.43
1:VF:257:LEU:HB3	1:VF:266:PHE:CE1	2.54	0.43
2:VI:111:GLY:HA2	2:VI:114:ILE:HG22	2.01	0.43
2:VI:275:VAL:O	2:VI:275:VAL:HG13	2.19	0.43
1:VJ:149:THR:HA	1:VJ:152:ILE:HG22	2.00	0.43
1:VJ:267:MET:HG3	1:VJ:374:ILE:HD11	2.01	0.43
2:VK:326:LYS:NZ	1:VL:212:PHE:HB2	2.31	0.43
1:VL:110:ALA:O	1:VL:113:ILE:HG22	2.18	0.43
2:VM:155:GLU:HG3	2:VM:197:HIS:ND1	2.34	0.43
2:VM:204:LEU:HD13	2:VM:231:ILE:HG23	2.00	0.43
2:VM:382:THR:HG21	2:VM:436:GLY:HA3	2.01	0.43
1:W:186:THR:HG21	1:W:385:PHE:CD2	2.54	0.43
1:W:271:ALA:O	1:W:365:VAL:N	2.47	0.43
2:WA:336:LYS:HE3	2:WA:351:PHE:CE2	2.54	0.43
1:WD:347:ASN:C	1:WD:347:ASN:HD22	2.26	0.43
2:WE:150:GLY:O	2:WE:154:LEU:HD23	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:WE:346:TRP:CD1	1:WF:391:ARG:HG3	2.53	0.43
2:WG:123:ARG:HA	2:WG:161:TYR:OH	2.18	0.43
2:WG:307:PRO:HB3	2:WG:312:TYR:HE1	1.84	0.43
1:WH:21:TRP:HZ3	1:WH:50:TYR:HB3	1.83	0.43
2:WI:23:LEU:HD11	2:WI:233:GLN:OE1	2.19	0.43
2:WK:169:TYR:CD2	2:WK:235:VAL:HG22	2.54	0.43
1:WL:317:PHE:CE2	1:WL:326:VAL:HB	2.54	0.43
3:X:15:TYR:OH	3:X:17:ILE:HD11	2.18	0.43
3:XA:81:LYS:HD2	3:XA:161:ARG:HD2	2.00	0.43
3:XE:62:PRO:HD3	3:XE:69:LEU:HG	2.01	0.43
6:0:61:LYS:HZ3	6:0:90:LEU:HD11	1.84	0.43
7:0D:403:ARG:HH22	17:0n:47:ASP:CG	2.27	0.43
8:0I:281:ILE:O	8:0I:285:GLU:HG2	2.19	0.43
9:0M:48:ALA:HB3	9:0M:293:MET:HE1	1.99	0.43
9:0M:122:TYR:CD1	9:0M:136:LEU:HD21	2.54	0.43
9:0M:146:CYS:SG	9:0M:186:ARG:NH2	2.91	0.43
9:0N:243:LEU:HD12	9:0N:247:ILE:HD11	2.00	0.43
9:0N:315:MET:SD	33:2H:2:ASN:HA	2.59	0.43
9:0O:318:LEU:O	9:0O:319:ARG:HD2	2.18	0.43
10:0R:273:ARG:HD3	10:0R:277:TYR:CE2	2.54	0.43
15:0f:236:TYR:HB2	29:1k:123:PHE:HE1	1.83	0.43
16:0l:556:ASP:HB2	16:0l:567:ARG:NH1	2.34	0.43
16:0l:587:LEU:HD22	16:0l:591:PHE:HE2	1.84	0.43
20:0u:201:ASP:OD1	20:0u:202:MET:N	2.51	0.43
21:0w:160:MET:SD	21:0x:528:LYS:HE2	2.59	0.43
23:1D:72:ARG:CZ	49:3P:342:ARG:HD3	2.48	0.43
24:1H:461:ILE:HB	24:1H:464:SER:HB3	2.01	0.43
24:1H:681:THR:O	24:1H:687:SER:HA	2.19	0.43
24:1H:727:VAL:HB	24:1H:731:GLU:HB3	2.01	0.43
24:1J:487:ALA:HB3	24:1J:522:GLU:HB3	2.01	0.43
25:1O:569:LYS:O	25:1O:573:VAL:HG23	2.19	0.43
26:1Q:89:PHE:HE1	26:1Q:175:THR:HB	1.84	0.43
28:1b:21:ARG:C	41:2h:351:ARG:NH2	2.72	0.43
28:1b:238:ALA:O	28:1b:241:VAL:HG22	2.17	0.43
31:1t:156:SER:HA	31:1t:159:ARG:CD	2.49	0.43
31:1t:257:GLN:O	31:1t:261:GLN:OE1	2.37	0.43
33:2G:14:PRO:HA	33:2G:87:PHE:HA	1.99	0.43
36:2Q:24:MET:HG3	36:2Q:70:SER:HB3	2.01	0.43
36:2Q:302:LYS:HZ3	36:2Q:308:GLN:HA	1.83	0.43
41:2e:398:LYS:HA	41:2e:401:GLN:OE1	2.18	0.43
41:2f:464:ARG:O	41:2f:468:ARG:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:2h:355:ASN:O	41:2h:359:MET:HG2	2.19	0.43
45:2y:265:ARG:HG3	45:2y:265:ARG:NH1	2.34	0.43
48:3H:52:ARG:HG2	48:3H:56:ARG:NH1	2.34	0.43
52:3U:393:THR:OG1	52:3U:394:PRO:HD3	2.18	0.43
53:3W:267:ILE:HA	53:3W:270:LEU:HD12	1.99	0.43
54:3Z:425:SER:O	54:3Z:429:THR:HG23	2.19	0.43
66:5K:108:THR:OG1	66:5K:112:GLU:O	2.37	0.43
1:A:175:VAL:O	1:A:175:VAL:HG12	2.19	0.42
2:AC:280:LYS:HG3	2:MC:89:PRO:HG2	2.01	0.42
1:AD:46:ARG:HH12	2:AE:73:THR:HA	1.84	0.42
1:AD:144:GLY:N	69:AD:500:GDP:O2B	2.39	0.42
2:AE:65:CYS:O	2:AE:91:GLN:HB3	2.19	0.42
1:AF:3:GLU:HA	1:AF:49:VAL:HA	2.01	0.42
1:AF:76:VAL:HG13	1:AF:90:PHE:HE2	1.84	0.42
1:AF:139:LEU:HG	1:AF:168:SER:HB2	2.00	0.42
1:AF:268:MET:HB2	1:AF:300:MET:HG2	2.01	0.42
1:AF:324:LYS:HE3	2:AG:222:PRO:HG2	2.01	0.42
1:AF:345:ILE:HB	1:AF:348:ASN:HD21	1.84	0.42
1:AH:239:CYS:HB3	1:AH:248:SER:H	1.84	0.42
2:AI:268:VAL:HG23	2:AI:378:ILE:HD11	2.01	0.42
2:AI:331:ALA:O	2:AI:334:THR:HG22	2.19	0.42
2:AK:305:CYS:SG	2:AK:384:ILE:HA	2.59	0.42
1:AL:110:ALA:O	1:AL:113:ILE:HG22	2.18	0.42
1:AL:263:LEU:HD21	1:AL:421:GLU:HG3	2.01	0.42
2:AM:96:LYS:HE2	2:AM:96:LYS:HB2	1.90	0.42
1:B:200:MET:HB3	1:B:268:MET:SD	2.58	0.42
2:BA:195:LEU:HA	2:BA:266:HIS:NE2	2.34	0.42
2:BA:261:PRO:HG2	2:BA:313:MET:SD	2.59	0.42
2:BE:26:LEU:HD23	2:BE:26:LEU:H	1.83	0.42
2:BG:296:PHE:HZ	2:BG:351:PHE:HE1	1.67	0.42
1:BH:152:ILE:HD13	1:BH:164:MET:HE2	2.00	0.42
2:BI:63:PRO:HG2	2:BI:87:PHE:CD1	2.54	0.42
1:BJ:35:THR:HG23	1:BJ:37:GLN:OE1	2.19	0.42
2:BM:194:LEU:O	2:BM:198:THR:HB	2.18	0.42
2:BM:214:ARG:HH11	2:BM:220:GLU:HA	1.84	0.42
1:BN:97:ALA:CB	1:BN:143:THR:HB	2.49	0.42
1:CA:161:ASP:OD1	1:CA:161:ASP:N	2.51	0.42
1:CA:363:MET:HE3	1:CA:363:MET:HB2	1.83	0.42
1:CC:247:ASN:H	2:CD:11:GLN:HE22	1.66	0.42
1:CC:268:MET:HG3	1:CC:368:ILE:HD13	2.00	0.42
1:CE:19:LYS:HB2	1:CE:19:LYS:HE2	1.76	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CG:262:ARG:HG3	1:CG:262:ARG:NH1	2.34	0.42
1:CI:206:ALA:O	1:CI:210:ILE:HG12	2.19	0.42
2:CJ:6:CYS:O	2:CJ:65:CYS:HA	2.19	0.42
2:CL:250:VAL:HG21	2:CL:318:MET:HE1	2.00	0.42
1:CM:78:ALA:HB2	24:1K:302:LYS:HG3	2.01	0.42
1:CM:263:LEU:HD22	1:CM:422:TYR:CE1	2.53	0.42
2:D:322:ASP:OD2	2:D:373:ARG:NH2	2.52	0.42
1:DA:313:ALA:HB1	1:DA:367:PHE:CE1	2.54	0.42
1:DE:46:ARG:HG3	1:DE:49:VAL:HG23	2.01	0.42
1:DE:50:TYR:HD2	1:DE:241:ARG:HD3	1.84	0.42
1:DE:178:THR:HG22	1:DE:180:VAL:H	1.82	0.42
1:DG:311:LEU:HD23	1:DG:342:ILE:CD1	2.49	0.42
2:DJ:203:MET:HE1	2:DJ:267:PHE:C	2.44	0.42
2:DJ:286:LEU:O	2:DJ:373:ARG:NH1	2.42	0.42
2:DJ:313:MET:HG3	2:DJ:381:SER:HA	2.01	0.42
2:DJ:352:LYS:HD2	2:DJ:353:CYS:N	2.34	0.42
1:DK:11:GLN:HE22	69:DK:500:GDP:H8	1.67	0.42
1:DK:164:MET:HB2	1:DK:197:ASP:H	1.83	0.42
2:DL:326:LYS:HE3	1:DM:212:PHE:CZ	2.54	0.42
1:EB:320:ARG:NH2	1:EB:355:ASP:HB3	2.33	0.42
1:ED:36:TYR:OH	1:ED:40:SER:O	2.37	0.42
1:ED:306:ARG:NH1	1:ED:340:TYR:CZ	2.87	0.42
2:EE:278:ALA:HB3	25:1O:610:ALA:O	2.18	0.42
2:EG:85:GLN:OE1	2:EG:85:GLN:HA	2.19	0.42
1:EJ:242:PHE:HB2	1:EJ:354:CYS:SG	2.59	0.42
1:EJ:321:MET:HE2	1:EJ:363:MET:HG3	2.01	0.42
1:F:243:PRO:HG2	28:4V:219:THR:HG21	2.00	0.42
1:F:267:MET:HE3	1:F:299:MET:HE2	2.01	0.42
1:F:288:GLU:O	1:F:291:GLN:HG3	2.19	0.42
2:FA:5:ILE:HD12	2:FA:125:LEU:HB3	2.00	0.42
2:FA:234:VAL:HG13	2:FA:376:CYS:SG	2.59	0.42
2:FA:247:ALA:HB3	2:FA:355:ILE:HB	2.00	0.42
2:FA:251:ASP:H	2:FA:254:GLU:CB	2.29	0.42
2:FA:323:VAL:HG13	2:FA:355:ILE:HG23	2.00	0.42
1:FB:20:PHE:HA	1:FB:230:ALA:HB1	2.00	0.42
1:FD:34:GLY:HA3	1:FD:58:ARG:HH11	1.84	0.42
2:FE:359:PRO:HG3	28:4W:96:TYR:CD2	2.54	0.42
1:FF:347:ASN:OD1	2:FG:178:SER:OG	2.23	0.42
2:FG:67:PHE:HB2	2:FG:92:LEU:HD13	1.99	0.42
2:FG:70:LEU:HD13	2:FG:145:THR:HG23	2.00	0.42
2:FG:319:TYR:HB3	2:FG:323:VAL:HG21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FI:238:LEU:HD12	2:FI:318:MET:HG3	2.01	0.42
1:FJ:54:SER:OG	1:FJ:55:SER:N	2.52	0.42
1:FJ:207:LEU:HD13	1:FJ:228:LEU:HD23	2.01	0.42
1:FJ:257:LEU:HA	1:FJ:312:THR:HG21	1.99	0.42
1:FJ:263:LEU:HD21	1:FJ:421:GLU:HG3	2.01	0.42
1:FJ:307:HIS:O	1:FJ:426:GLN:NE2	2.51	0.42
1:G:56:GLY:HA2	17:0m:111:GLN:NE2	2.32	0.42
1:G:149:THR:HG21	1:G:191:GLN:HE21	1.84	0.42
1:GB:129:CYS:HB2	2:GC:96:LYS:HE3	2.00	0.42
1:GB:350:LYS:HG2	2:GC:179:THR:O	2.18	0.42
2:GC:68:LEU:HD23	2:GC:149:LEU:HD21	2.01	0.42
2:GE:142:GLY:HA2	2:GE:183:GLU:HG3	2.01	0.42
2:GE:340:THR:HG23	2:GE:341:ILE:HG23	2.01	0.42
2:GG:69:ASP:OD1	2:GG:145:THR:HG21	2.18	0.42
2:GG:183:GLU:HA	2:GG:186:ASN:HD22	1.83	0.42
2:GG:212:LEU:HD21	2:GG:275:VAL:HG21	2.01	0.42
2:GI:392:ASP:OD1	2:GI:393:HIS:N	2.52	0.42
1:GJ:130:LEU:O	1:GJ:162:ARG:NE	2.51	0.42
1:H:257:LEU:HD21	1:H:314:SER:CB	2.49	0.42
1:H:385:PHE:HE2	1:H:412:GLU:HB2	1.84	0.42
1:HB:134:GLN:HA	1:HB:165:MET:HB3	2.00	0.42
1:HD:289:LEU:HD11	1:HD:363:MET:HG3	2.01	0.42
1:HD:324:LYS:HZ2	2:HE:222:PRO:HG2	1.79	0.42
2:HE:276:VAL:HG23	2:HE:280:LYS:NZ	2.34	0.42
1:HF:3:GLU:OE2	1:HF:128:ASP:N	2.52	0.42
1:HH:65:LEU:HB3	1:HH:73:MET:HE1	2.01	0.42
2:HI:116:ASP:OD1	2:HI:117:LEU:N	2.49	0.42
2:HK:136:MET:SD	2:HK:167:LEU:HD12	2.59	0.42
1:HL:13:GLY:HA2	1:HL:16:ILE:HG22	2.00	0.42
1:HL:99:ASN:HD22	1:HL:178:THR:HG21	1.83	0.42
1:IB:257:LEU:HD21	1:IB:314:SER:HB2	2.00	0.42
2:IC:212:LEU:HD21	2:IC:275:VAL:HG21	2.01	0.42
1:ID:133:PHE:CE2	1:ID:155:LEU:HD23	2.53	0.42
2:IE:8:HIS:ND1	2:IE:17:GLY:HA3	2.34	0.42
2:IE:439:SER:HB3	1:IF:391:ARG:HH11	1.84	0.42
1:IF:346:PRO:C	2:IG:394:LYS:HZ3	2.25	0.42
2:IG:259:LEU:O	2:IG:380:ASN:ND2	2.39	0.42
2:II:133:GLN:O	2:II:165:SER:OG	2.36	0.42
2:II:331:ALA:O	2:II:334:THR:HG22	2.18	0.42
1:IJ:190:HIS:CE1	1:IJ:191:GLN:HG2	2.54	0.42
1:IJ:267:MET:C	1:IJ:268:MET:HE2	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IJ:299:MET:HE2	1:IJ:299:MET:HB2	1.84	0.42
2:IK:23:LEU:O	2:IK:27:GLU:HG2	2.19	0.42
2:IK:119:LEU:HD21	2:IK:156:ARG:HB3	2.00	0.42
1:IL:35:THR:OG1	1:IL:37:GLN:NE2	2.47	0.42
1:IL:344:TRP:CE3	1:IL:345:ILE:HG12	2.54	0.42
2:IM:328:VAL:O	2:IM:332:ILE:HG12	2.19	0.42
1:JA:307:HIS:O	1:JA:426:GLN:NE2	2.52	0.42
1:JA:350:LYS:NZ	1:JA:352:SER:OG	2.33	0.42
1:JE:133:PHE:HB2	1:JE:164:MET:SD	2.59	0.42
1:JE:167:PHE:CD1	1:JE:233:MET:HE2	2.54	0.42
1:JG:301:GLN:HE21	1:JG:303:ALA:CB	2.32	0.42
1:JI:161:ASP:N	1:JI:161:ASP:OD1	2.52	0.42
1:JI:350:LYS:HD3	2:JJ:180:ALA:HA	2.00	0.42
1:JM:316:LEU:HB2	1:JM:366:THR:HG22	2.00	0.42
2:KB:246:GLY:H	2:KB:249:ASN:HD21	1.66	0.42
1:KE:222:PHE:HD1	1:KE:225:LEU:HD12	1.83	0.42
1:KE:252:LYS:HA	2:KF:100:ALA:HB1	2.00	0.42
1:KE:375:GLN:HG2	1:KE:422:TYR:HB3	2.01	0.42
2:KF:74:VAL:HA	2:KF:77:GLU:HG3	2.00	0.42
2:KH:56:THR:C	2:KH:58:ALA:N	2.77	0.42
1:KI:344:TRP:HB3	1:KI:430:VAL:HG12	2.01	0.42
2:KJ:248:LEU:HB2	2:KJ:355:ILE:H	1.83	0.42
1:KK:378:PHE:HA	1:KK:381:VAL:HG12	2.00	0.42
1:KM:221:THR:O	1:KM:225:LEU:HG	2.19	0.42
1:KM:350:LYS:NZ	2:KN:101:ASN:HD21	2.16	0.42
1:LA:162:ARG:HG3	1:LA:162:ARG:NH1	2.34	0.42
1:LE:52:ASP:OD2	1:LE:60:VAL:HB	2.19	0.42
1:LE:251:ARG:NH2	2:LF:97:GLU:OE2	2.51	0.42
2:LH:390:ARG:HG2	35:2O:23:TRP:CE2	2.53	0.42
1:LI:165:MET:HE2	1:LI:236:VAL:HG21	2.00	0.42
1:LI:171:PRO:HG3	1:LI:181:GLU:HB3	2.01	0.42
1:LI:176:SER:OG	1:LI:181:GLU:OE1	2.34	0.42
2:LJ:295:VAL:CG1	2:LJ:377:MET:HB2	2.49	0.42
2:LL:429:GLU:OE2	31:1s:36:THR:HG22	2.18	0.42
1:LM:165:MET:HA	1:LM:198:GLU:OE1	2.19	0.42
1:LM:290:THR:O	1:LM:293:MET:HG2	2.19	0.42
2:LN:11:GLN:HE21	2:LN:15:GLN:HE22	1.67	0.42
1:M:21:TRP:CZ3	1:M:50:TYR:HB3	2.54	0.42
2:MA:259:LEU:HG	2:MA:268:VAL:HG11	2.00	0.42
1:MB:172:SER:OG	1:MB:174:ARG:NH2	2.52	0.42
2:MC:36:MET:HA	2:MC:36:MET:HE3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MD:211:CYS:HB3	1:MD:220:PRO:HG3	2.00	0.42
1:MD:262:ARG:HH12	1:MD:414:ASN:HD21	1.67	0.42
2:ME:8:HIS:HB3	2:ME:13:GLY:O	2.18	0.42
2:ME:178:SER:HB2	2:ME:183:GLU:OE1	2.19	0.42
2:ME:277:SER:OG	2:ME:280:LYS:HG2	2.19	0.42
1:MF:70:PRO:HG3	1:MF:92:PHE:HB2	2.01	0.42
2:MG:171:VAL:HG13	2:MG:205:ASP:HA	2.01	0.42
1:MH:3:GLU:OE1	1:MH:3:GLU:N	2.52	0.42
1:MH:294:PHE:CE1	1:MH:333:VAL:HG21	2.54	0.42
1:MJ:149:THR:HA	1:MJ:152:ILE:HG22	2.01	0.42
2:MM:141:VAL:HB	2:MM:187:CYS:HA	2.00	0.42
2:MM:316:CYS:HB3	2:MM:378:ILE:CG2	2.49	0.42
1:N:407:GLU:H	1:N:407:GLU:CD	2.25	0.42
2:NC:203:MET:HG3	2:NC:384:ILE:HD11	2.01	0.42
2:NE:195:LEU:HD13	2:NE:267:PHE:HE1	1.84	0.42
1:NF:292:GLN:HG2	1:NF:298:ASN:HD22	1.83	0.42
1:NF:379:ARG:HH11	1:NF:379:ARG:HG2	1.83	0.42
1:NH:73:MET:HG3	1:NH:92:PHE:HD2	1.84	0.42
2:NI:91:GLN:H	2:NI:121:ARG:HH11	1.65	0.42
1:NL:175:VAL:HG11	1:NL:204:ASN:CB	2.49	0.42
1:OD:168:SER:O	1:OD:201:CYS:HA	2.19	0.42
2:OE:340:THR:HG23	2:OE:341:ILE:HG23	2.01	0.42
2:OI:287:SER:OG	2:OI:288:VAL:N	2.52	0.42
1:OJ:318:ARG:HD3	1:OJ:358:PRO:HG3	2.01	0.42
1:OL:202:ILE:HD11	1:OL:268:MET:HG3	2.01	0.42
2:OM:174:SER:OG	2:OM:207:GLU:OE1	2.35	0.42
1:P:2:ARG:O	1:P:49:VAL:HG23	2.19	0.42
1:P:331:LEU:HD22	2:PA:177:VAL:HG23	2.01	0.42
2:PA:136:MET:HE1	2:PA:167:LEU:HD23	1.99	0.42
1:PD:290:THR:HA	1:PD:293:MET:HG2	2.00	0.42
2:PE:56:THR:HA	2:QD:285:GLN:NE2	2.29	0.42
1:PF:163:ILE:HG12	1:PF:251:ARG:NH2	2.33	0.42
1:PJ:294:PHE:HD2	1:PJ:310:TYR:HE1	1.67	0.42
2:PK:87:PHE:HB3	2:PK:92:LEU:HD11	2.00	0.42
2:PK:251:ASP:HB2	2:PK:254:GLU:HG2	2.01	0.42
2:PK:254:GLU:CD	1:PL:98:GLY:HA2	2.44	0.42
2:QB:346:TRP:CD1	1:QC:391:ARG:HG3	2.54	0.42
1:QC:139:LEU:CD2	1:QC:168:SER:HB3	2.49	0.42
2:QD:236:SER:HA	2:QD:239:THR:HG22	2.00	0.42
2:QD:282:TYR:CE1	41:2h:259:LEU:HD11	2.54	0.42
2:QF:19:ALA:O	2:QF:22:GLU:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QF:133:GLN:HG2	2:QF:252:LEU:HD23	2.00	0.42
2:QF:175:PRO:HB3	2:QF:390:ARG:NH1	2.34	0.42
2:QF:271:SER:OG	2:QF:377:MET:HB3	2.18	0.42
1:QG:330:MET:SD	1:QG:349:ILE:HG21	2.59	0.42
1:QI:21:TRP:NE1	1:QI:63:ALA:HB2	2.33	0.42
2:QJ:393:HIS:O	2:QJ:397:LEU:HD13	2.19	0.42
1:QK:316:LEU:HB2	1:QK:366:THR:OG1	2.19	0.42
2:R:143:GLY:HA3	71:R:501:GTP:O1B	2.19	0.42
2:R:435:VAL:O	1:RA:391:ARG:NH2	2.52	0.42
2:RB:322:ASP:OD1	2:RB:373:ARG:NE	2.51	0.42
1:RC:389:PHE:CZ	1:RC:405:GLU:HG3	2.52	0.42
2:RD:173:PRO:HB3	2:RD:183:GLU:HG3	2.00	0.42
1:RE:245:GLN:HG2	28:1Y:42:THR:HG21	2.01	0.42
1:RE:253:LEU:HD11	1:RE:316:LEU:HD11	2.00	0.42
1:RG:81:TYR:HD2	1:RG:84:LEU:HD22	1.84	0.42
1:RI:268:MET:O	1:RI:300:MET:HG2	2.19	0.42
2:SA:376:CYS:SG	2:SA:377:MET:N	2.92	0.42
1:SB:202:ILE:HD11	1:SB:268:MET:SD	2.59	0.42
1:SB:344:TRP:CD1	1:SB:344:TRP:H	2.36	0.42
1:SD:54:SER:OG	1:SD:55:SER:N	2.52	0.42
2:SE:88:ASN:OD1	2:SE:89:PRO:HD2	2.19	0.42
2:SG:155:GLU:HA	2:SG:197:HIS:ND1	2.34	0.42
2:SG:160:ASP:HA	61:3x:13:ASP:OD1	2.18	0.42
1:SH:178:THR:OG1	1:SH:181:GLU:HG3	2.18	0.42
1:SJ:11:GLN:HA	1:SJ:72:THR:HG21	2.01	0.42
1:SJ:336:LYS:NZ	59:3p:243:PRO:O	2.27	0.42
1:T:372:THR:HG21	1:T:426:GLN:HB2	2.00	0.42
1:TB:141:GLY:O	1:TB:145:SER:OG	2.28	0.42
1:TB:347:ASN:ND2	2:TC:180:ALA:O	2.49	0.42
1:TF:27:GLU:OE2	1:TF:241:ARG:NH1	2.52	0.42
1:TF:244:GLY:HA2	1:TF:355:ASP:OD2	2.19	0.42
2:TG:91:GLN:NE2	2:TG:125:LEU:HG	2.34	0.42
1:TH:330:MET:HA	1:TH:333:VAL:HG22	2.00	0.42
2:TI:237:SER:HA	2:TI:320:ARG:HH11	1.83	0.42
1:TJ:21:TRP:CZ3	1:TJ:61:PRO:HB3	2.54	0.42
1:TJ:415:MET:HE2	1:TJ:415:MET:HB2	1.76	0.42
2:TK:313:MET:HE3	2:TK:313:MET:HB2	1.77	0.42
1:TL:189:VAL:HG21	1:TL:415:MET:SD	2.59	0.42
1:TL:300:MET:O	1:TL:300:MET:HG3	2.19	0.42
1:TL:337:ASN:ND2	61:3x:126:ARG:HH12	2.16	0.42
1:U:66:MET:SD	1:U:116:VAL:HG21	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:UA:240:ALA:HB2	2:UA:320:ARG:HH12	1.83	0.42
1:UB:215:LEU:HB3	1:UB:217:LEU:HD13	2.00	0.42
1:UD:256:ASN:HD21	2:UE:101:ASN:HD22	1.67	0.42
2:UE:133:GLN:O	2:UE:165:SER:CB	2.64	0.42
1:UF:36:TYR:OH	1:UF:43:GLN:HB2	2.19	0.42
1:UF:180:VAL:HG23	1:UF:184:ASN:HD21	1.83	0.42
1:UH:267:MET:CE	1:UH:371:ASN:HB3	2.47	0.42
1:UH:317:PHE:CD1	1:UH:365:VAL:HB	2.54	0.42
1:UH:351:SER:H	2:UI:179:THR:HG23	1.83	0.42
2:UI:269:LEU:HD12	2:UI:303:THR:HB	2.01	0.42
2:UK:269:LEU:O	2:UK:378:ILE:HD12	2.19	0.42
1:VB:175:VAL:HG12	1:VB:175:VAL:O	2.19	0.42
1:VB:259:PRO:O	2:VC:406:HIS:HE1	2.01	0.42
2:VC:90:GLU:O	2:VC:91:GLN:HB3	2.20	0.42
2:VE:88:ASN:HB3	2:VE:90:GLU:O	2.19	0.42
2:VE:155:GLU:HG2	2:VE:197:HIS:CE1	2.54	0.42
1:VF:267:MET:HE3	1:VF:267:MET:HB2	1.81	0.42
1:VH:130:LEU:HD23	1:VH:162:ARG:HD3	2.00	0.42
1:VJ:60:VAL:HG11	1:VJ:86:ARG:CG	2.49	0.42
1:VJ:242:PHE:HB2	1:VJ:354:CYS:SG	2.59	0.42
2:VK:3:GLU:HA	2:VK:51:THR:HA	2.00	0.42
2:VK:103:TYR:HD1	2:VK:147:SER:HB3	1.83	0.42
1:W:43:GLN:O	1:W:47:ILE:HB	2.19	0.42
1:WD:100:ASN:HB3	1:WD:103:LYS:HB3	2.00	0.42
2:WG:1:MET:H2	2:WG:3:GLU:CD	2.22	0.42
2:WG:90:GLU:OE1	2:WG:91:GLN:N	2.52	0.42
2:WG:207:GLU:HA	2:WG:210:TYR:CD2	2.54	0.42
2:WG:268:VAL:HG21	2:WG:378:ILE:HG22	2.00	0.42
2:WI:44:VAL:HG12	2:WI:45:GLU:CD	2.44	0.42
2:WI:333:ALA:O	2:WI:337:THR:HG23	2.19	0.42
3:XC:90:GLU:OE2	3:XC:102:ARG:HD2	2.18	0.42
3:XC:138:ASP:CG	3:XC:142:ARG:HH21	2.27	0.42
5:XN:18:ASP:HB3	5:XN:22:LEU:HD23	2.00	0.42
7:0D:331:ASP:HB2	38:2V:179:TYR:CE2	2.54	0.42
8:0G:415:LEU:O	8:0G:419:ILE:HG12	2.19	0.42
9:0N:345:ASP:O	9:0N:368:THR:HA	2.18	0.42
9:0N:395:PRO:HG2	14:0d:24:ILE:HG13	2.01	0.42
10:0R:310:MET:O	10:0R:313:GLU:HG3	2.18	0.42
13:0Y:158:VAL:HB	32:2B:215:HIS:HB3	2.01	0.42
14:0c:277:TYR:CE2	14:0c:278:ILE:HG12	2.54	0.42
16:0l:265:LEU:HD21	16:0l:318:ASN:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:0l:419:ARG:O	16:0l:423:ARG:HG2	2.18	0.42
16:0k:287:PHE:HZ	16:0k:306:ARG:HH12	1.65	0.42
16:0k:326:TYR:HE2	16:0k:353:PHE:HD1	1.67	0.42
16:0k:568:LEU:HD22	16:0k:600:VAL:HG11	2.00	0.42
19:0r:115:HIS:O	19:0r:118:ARG:HG2	2.19	0.42
23:1E:73:GLU:O	23:1E:77:LEU:HD23	2.19	0.42
24:1I:411:LYS:NZ	24:1I:415:ILE:HD11	2.34	0.42
24:1I:677:PHE:HA	24:1I:680:ILE:HG22	2.00	0.42
24:1J:676:GLU:OE1	24:1J:702:LEU:HD23	2.19	0.42
24:1K:289:GLU:HG2	24:1K:303:PHE:HB2	2.00	0.42
25:1O:162:VAL:HG11	25:1O:186:ILE:HG23	2.01	0.42
27:1S:330:TYR:OH	27:1S:385:ARG:NH1	2.42	0.42
27:1T:652:LEU:HB3	27:1T:653:PRO:HD3	2.00	0.42
27:1T:722:LEU:CD1	27:1T:723:LYS:HD3	2.46	0.42
28:1U:216:ASP:O	28:1U:218:GLN:N	2.50	0.42
22:1x:118:CYS:SG	22:1x:120:HIS:NE2	2.92	0.42
32:2C:82:LYS:O	32:2C:86:GLU:OE1	2.36	0.42
34:2L:97:LEU:HB2	34:2L:103:LYS:HD3	1.99	0.42
34:2L:98:SER:OG	34:2L:102:GLY:N	2.48	0.42
38:2U:322:GLU:O	38:2U:326:LEU:HD23	2.19	0.42
40:2Z:119:ARG:HG3	40:2Z:262:PHE:CD1	2.54	0.42
42:2r:260:SER:HA	42:2r:263:ILE:HG22	2.00	0.42
44:2v:115:ILE:CG2	44:2v:131:ARG:HD3	2.49	0.42
44:2w:172:ALA:HB3	44:2w:176:GLU:HG2	2.01	0.42
53:3W:255:ASP:OD2	53:3W:312:ARG:NH2	2.51	0.42
59:4a:282:TRP:CZ2	59:4a:284:PRO:HA	2.54	0.42
66:5L:231:ILE:HG12	66:5L:256:VAL:HG22	2.00	0.42
68:5S:91:CYS:SG	68:5S:92:ALA:N	2.92	0.42
1:A:300:MET:HE2	1:A:300:MET:HB3	1.78	0.42
1:AB:186:THR:HG21	1:AB:385:PHE:CE2	2.54	0.42
2:AC:398:MET:HE2	2:AC:398:MET:HB2	1.94	0.42
1:AD:205:GLU:HG2	1:AD:206:ALA:N	2.33	0.42
1:AF:10:GLY:HA2	1:AF:143:THR:HG23	2.01	0.42
1:AF:256:ASN:ND2	2:AG:181:VAL:H	2.18	0.42
2:AG:345:ASP:OD1	2:AG:345:ASP:N	2.49	0.42
1:AH:262:ARG:NH1	5:XP:306:MET:SD	2.92	0.42
1:AJ:220:PRO:HB2	1:AJ:224:ASP:HB2	2.01	0.42
1:B:77:ARG:HG2	1:B:90:PHE:HE2	1.83	0.42
1:BB:72:THR:O	1:BB:76:VAL:HG12	2.20	0.42
1:BD:225:LEU:O	1:BD:229:VAL:HG22	2.18	0.42
2:BE:6:CYS:O	2:BE:65:CYS:HA	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BE:211:ASP:HB3	2:BE:215:ARG:HH12	1.84	0.42
2:BG:214:ARG:HG2	2:BG:214:ARG:HH11	1.84	0.42
2:BG:219:ILE:HG23	2:BG:222:PRO:HG3	2.02	0.42
1:BH:60:VAL:HG11	1:BH:86:ARG:HB2	2.01	0.42
2:BI:70:LEU:HD12	2:BI:99:ALA:HB2	2.00	0.42
2:BI:147:SER:HB2	2:BI:190:SER:HB3	2.01	0.42
2:BI:372:GLN:HE21	2:BI:373:ARG:NH1	2.17	0.42
1:BL:273:LEU:H	1:BL:292:GLN:HE22	1.67	0.42
1:CC:144:GLY:N	69:CC:500:GDP:O2B	2.46	0.42
1:CC:309:ARG:NH1	1:CC:339:SER:O	2.52	0.42
2:CD:234:VAL:HG21	2:CD:302:LEU:HD22	2.00	0.42
1:CE:41:ASP:OD2	25:1O:715:ALA:HA	2.19	0.42
2:CH:179:THR:OG1	71:CH:501:GTP:O3'	2.28	0.42
2:CH:298:PRO:HG3	2:CH:308:ARG:CZ	2.49	0.42
1:CK:267:MET:HB2	1:CK:301:GLN:HG2	2.00	0.42
1:CM:301:GLN:O	1:CM:303:ALA:N	2.52	0.42
2:DB:21:TRP:CZ3	2:DB:63:PRO:HB3	2.55	0.42
2:DB:84:ARG:NE	27:1S:644:ARG:HB3	2.34	0.42
2:DD:254:GLU:O	2:DD:258:ASN:ND2	2.53	0.42
1:DE:21:TRP:CZ3	1:DE:61:PRO:HB3	2.54	0.42
1:DE:268:MET:HE3	1:DE:269:GLY:O	2.19	0.42
1:DE:325:GLU:OE1	2:DF:221:ARG:HG3	2.19	0.42
2:DF:326:LYS:HE3	1:DG:212:PHE:CE1	2.54	0.42
1:DI:377:MET:SD	1:DI:377:MET:N	2.92	0.42
1:DK:2:ARG:HH22	2:DL:72:PRO:HG3	1.84	0.42
1:DM:25:SER:HB2	1:DM:30:VAL:HB	2.01	0.42
1:DM:120:CYS:HB2	1:DM:133:PHE:HE2	1.85	0.42
2:EA:202:THR:HG23	2:EA:270:THR:OG1	2.18	0.42
1:EB:175:VAL:O	1:EB:175:VAL:HG12	2.19	0.42
1:ED:200:MET:HB3	1:ED:268:MET:HE3	2.00	0.42
1:ED:324:LYS:HG2	2:EE:222:PRO:HD2	2.00	0.42
2:EE:268:VAL:HG21	2:EE:378:ILE:HD11	2.00	0.42
2:EE:422:ARG:HA	2:EE:422:ARG:HD2	1.72	0.42
1:EF:201:CYS:O	1:EF:202:ILE:HD13	2.19	0.42
2:EG:251:ASP:H	2:EG:254:GLU:HB3	1.83	0.42
2:EG:269:LEU:H	2:EG:269:LEU:HD23	1.84	0.42
2:EG:323:VAL:HG13	2:EG:355:ILE:HG23	2.01	0.42
1:EJ:65:LEU:HD12	1:EJ:90:PHE:CE1	2.54	0.42
1:EL:21:TRP:CZ3	1:EL:61:PRO:HB3	2.54	0.42
1:F:314:SER:HA	1:F:350:LYS:O	2.19	0.42
1:FB:21:TRP:CZ3	1:FB:61:PRO:HB3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FC:9:ILE:HG22	2:FC:146:GLY:HA2	2.00	0.42
1:FH:268:MET:HE1	1:FH:366:THR:CG2	2.44	0.42
2:FI:176:GLN:OE1	2:FI:304:LYS:NZ	2.52	0.42
2:FI:285:GLN:HE22	2:FI:287:SER:HB3	1.83	0.42
1:G:46:ARG:HB2	1:G:241:ARG:O	2.19	0.42
1:GB:36:TYR:CD1	1:GB:44:LEU:HD21	2.54	0.42
1:GD:62:ARG:HH12	1:GD:127:CYS:HA	1.84	0.42
1:GD:350:LYS:NZ	1:GD:352:SER:HB3	2.34	0.42
2:GE:260:VAL:HB	1:GF:397:TRP:HZ2	1.84	0.42
1:GF:173:PRO:HG3	1:GF:384:GLN:NE2	2.33	0.42
1:GF:311:LEU:HA	1:GF:342:ILE:HD12	2.00	0.42
2:GG:425:LEU:HD23	2:GG:425:LEU:HA	1.84	0.42
2:GI:297:GLU:CD	2:GI:298:PRO:HD2	2.44	0.42
1:GJ:141:GLY:O	1:GJ:145:SER:OG	2.31	0.42
2:GK:392:ASP:OD1	2:GK:393:HIS:N	2.52	0.42
1:H:249:ASP:H	1:H:252:LYS:HB3	1.84	0.42
1:H:418:LEU:HA	1:H:421:GLU:OE1	2.19	0.42
2:HA:309:HIS:NE2	64:5B:109:ARG:HD2	2.34	0.42
2:HA:338:LYS:NZ	65:5G:114:VAL:HG11	2.34	0.42
1:HB:8:GLN:O	1:HB:66:MET:HG2	2.19	0.42
1:HB:42:LEU:HD21	38:2U:268:ARG:HE	1.84	0.42
1:HB:249:ASP:OD1	1:HB:252:LYS:HG2	2.19	0.42
2:HC:326:LYS:HD2	1:HD:220:PRO:HD2	2.01	0.42
1:HD:200:MET:HE2	1:HD:200:MET:HB3	1.57	0.42
1:HD:320:ARG:HH22	1:HD:355:ASP:HA	1.84	0.42
2:HG:169:TYR:CD1	2:HG:202:THR:HB	2.54	0.42
1:HH:326:VAL:O	1:HH:330:MET:HG2	2.19	0.42
2:HI:318:MET:O	2:HI:375:VAL:HA	2.19	0.42
1:HL:323:THR:HA	1:HL:326:VAL:HG12	2.01	0.42
1:I:221:THR:H	1:I:224:ASP:HB3	1.83	0.42
1:I:310:TYR:HA	1:I:371:ASN:HA	2.01	0.42
1:IB:228:LEU:HD23	7:0C:339:LEU:HD21	2.00	0.42
1:IB:239:CYS:HB3	1:IB:248:SER:H	1.84	0.42
1:IB:323:THR:HG21	2:IC:224:TYR:CD1	2.54	0.42
2:IC:23:LEU:O	2:IC:27:GLU:HG3	2.18	0.42
2:IC:334:THR:HG22	2:IC:338:LYS:HE2	2.00	0.42
1:ID:306:ARG:HA	1:ID:340:TYR:CE2	2.54	0.42
1:ID:316:LEU:HD23	1:ID:352:SER:HB2	2.00	0.42
1:ID:344:TRP:HB3	1:ID:430:VAL:HG12	2.01	0.42
2:IE:53:PHE:HB3	2:IE:61:HIS:HB3	2.01	0.42
2:IE:326:LYS:NZ	1:IF:220:PRO:HD2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IF:229:VAL:O	1:IF:233:MET:HG3	2.19	0.42
2:IG:326:LYS:HD2	1:IH:212:PHE:HE1	1.83	0.42
1:IH:133:PHE:CD2	1:IH:155:LEU:HD13	2.53	0.42
1:IJ:67:ASP:OD1	1:IJ:143:THR:HG21	2.18	0.42
2:IK:139:HIS:O	2:IK:170:THR:HA	2.18	0.42
2:IK:395:PHE:CD2	2:IK:422:ARG:HD3	2.54	0.42
1:IL:203:ASP:OD2	1:IL:206:ALA:N	2.43	0.42
2:IM:64:ARG:HA	2:IM:125:LEU:HD11	2.01	0.42
1:JA:355:ASP:OD2	15:0f:49:THR:N	2.52	0.42
2:JB:251:ASP:N	2:JB:254:GLU:HB3	2.34	0.42
2:JB:271:SER:HB3	2:JB:301:MET:HA	2.00	0.42
1:JC:350:LYS:HA	1:JC:350:LYS:HE2	2.01	0.42
2:JD:174:SER:HB2	2:JD:207:GLU:HG3	2.00	0.42
1:JE:129:CYS:SG	2:JF:96:LYS:HE3	2.59	0.42
2:JF:3:GLU:HA	2:JF:51:THR:HA	2.01	0.42
2:JF:253:THR:HA	2:JF:256:GLN:HB3	2.01	0.42
1:JG:313:ALA:HB1	1:JG:367:PHE:CE1	2.54	0.42
1:JI:211:CYS:HA	1:JI:215:LEU:HB2	2.00	0.42
1:JK:193:VAL:HA	1:JK:264:HIS:CE1	2.55	0.42
1:JK:242:PHE:HB2	1:JK:354:CYS:SG	2.59	0.42
2:K:172:TYR:HE2	2:K:388:PHE:CE1	2.37	0.42
2:KH:402:ARG:HG2	2:KH:402:ARG:NH1	2.33	0.42
1:KI:251:ARG:NE	2:KJ:97:GLU:OE2	2.45	0.42
1:KK:68:LEU:HG	1:KK:143:THR:HG22	2.00	0.42
1:KK:156:ARG:HA	1:KK:156:ARG:HD3	1.90	0.42
1:KK:172:SER:HB2	1:KK:203:ASP:OD1	2.19	0.42
2:KL:164:LYS:HB2	2:KL:164:LYS:HE2	1.75	0.42
1:LA:201:CYS:SG	1:LA:374:ILE:HD11	2.59	0.42
1:LA:335:ASN:HA	22:1w:80:ARG:NH1	2.35	0.42
1:LC:26:ASP:OD1	27:1S:32:PRO:HG2	2.20	0.42
1:LC:32:PRO:O	1:LC:83:GLN:HB3	2.20	0.42
2:LD:334:THR:HA	2:LD:337:THR:HG22	2.00	0.42
2:LF:288:VAL:HG22	2:LF:323:VAL:HG12	2.01	0.42
2:LH:151:ALA:O	2:LH:155:GLU:OE1	2.37	0.42
2:LH:182:VAL:HG22	2:LH:185:TYR:HB2	2.01	0.42
1:LI:150:LEU:HG	1:LI:154:LYS:NZ	2.34	0.42
1:LI:157:GLU:HB2	32:2C:209:SER:HB2	2.01	0.42
1:LK:325:GLU:OE2	2:LL:221:ARG:HD3	2.19	0.42
1:LK:391:ARG:NH2	22:0z:148:PHE:CE1	2.87	0.42
2:LL:262:TYR:HB2	2:LL:265:ILE:HG12	2.01	0.42
1:LM:150:LEU:HD12	1:LM:150:LEU:HA	1.90	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LM:215:LEU:HD21	1:LM:273:LEU:HD22	2.02	0.42
2:LN:203:MET:HE2	2:LN:203:MET:H	1.84	0.42
1:M:345:ILE:HA	2:MA:398:MET:HE1	2.00	0.42
2:MA:251:ASP:H	2:MA:254:GLU:CB	2.32	0.42
2:MA:369:ALA:HB1	23:1A:240:ASN:OD1	2.19	0.42
1:MB:286:VAL:HG23	1:MB:317:PHE:CE1	2.54	0.42
1:MD:272:PRO:O	1:MD:273:LEU:HD12	2.19	0.42
2:ME:182:VAL:HG23	2:ME:186:ASN:HD21	1.84	0.42
2:MG:169:TYR:HB3	2:MG:204:LEU:HD12	2.01	0.42
2:MG:209:ILE:HG23	2:MG:230:LEU:HD23	2.00	0.42
2:MI:234:VAL:HG13	2:MI:376:CYS:SG	2.60	0.42
2:MI:339:ARG:HH12	33:2H:250:GLU:CD	2.27	0.42
1:MJ:21:TRP:CD1	1:MJ:85:PHE:HE1	2.36	0.42
1:MJ:293:MET:HE1	1:MJ:317:PHE:CZ	2.55	0.42
2:MK:7:ILE:HD12	2:MK:137:VAL:HG22	2.00	0.42
2:MK:17:GLY:HA2	2:MK:20:CYS:SG	2.59	0.42
2:MM:318:MET:O	2:MM:375:VAL:HA	2.18	0.42
1:MN:273:LEU:HB2	1:MN:292:GLN:HE22	1.85	0.42
1:N:17:GLY:O	1:N:20:PHE:HB3	2.19	0.42
1:NB:113:ILE:O	1:NB:117:LEU:HD23	2.19	0.42
1:NB:200:MET:SD	1:NB:268:MET:HE1	2.59	0.42
1:ND:173:PRO:HB3	1:ND:380:ARG:CZ	2.49	0.42
1:ND:385:PHE:HE2	1:ND:412:GLU:HB2	1.84	0.42
2:NE:422:ARG:HE	2:NE:422:ARG:CA	2.32	0.42
1:NH:91:ILE:HD11	1:NH:119:VAL:HG21	2.00	0.42
2:NI:253:THR:HA	2:NI:256:GLN:HG3	2.00	0.42
2:NI:261:PRO:HG3	2:NI:313:MET:HE3	2.01	0.42
2:NI:338:LYS:HG2	2:NI:340:THR:HG22	2.01	0.42
2:NK:232:GLY:HA2	2:NK:235:VAL:HG12	2.01	0.42
1:O:169:VAL:HA	1:O:202:ILE:HB	2.00	0.42
1:O:316:LEU:HB2	1:O:366:THR:CG2	2.49	0.42
1:OB:378:PHE:CE2	1:OB:418:LEU:HD23	2.54	0.42
1:OD:240:LEU:HD23	1:OD:240:LEU:HA	1.89	0.42
1:OF:206:ALA:HB2	1:OF:302:ALA:N	2.34	0.42
1:OH:62:ARG:HG2	1:OH:123:GLU:OE2	2.19	0.42
2:OI:102:ASN:ND2	2:OI:411:GLU:HG3	2.34	0.42
1:OJ:187:LEU:HD22	1:OJ:403:MET:HE1	1.99	0.42
1:OJ:289:LEU:HD11	1:OJ:363:MET:HG2	2.00	0.42
2:OK:258:ASN:HB2	1:OL:179:VAL:CG2	2.48	0.42
1:OL:19:LYS:NZ	1:OL:22:GLU:OE1	2.47	0.42
2:OM:115:VAL:HG11	2:OM:156:ARG:NH1	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OM:116:ASP:OD2	2:OM:116:ASP:N	2.51	0.42
2:OM:361:THR:HG22	28:1h:166:PRO:HD2	2.00	0.42
1:PB:27:GLU:OE1	1:PB:241:ARG:NH1	2.52	0.42
1:PB:121:ARG:O	1:PB:125:GLU:HG3	2.19	0.42
1:PB:300:MET:HE2	1:PB:300:MET:HB3	1.88	0.42
2:PC:156:ARG:HA	2:PC:159:VAL:HG12	2.01	0.42
2:PC:228:ASN:OD1	71:PC:501:GTP:N1	2.52	0.42
1:PD:323:THR:HG21	2:PE:224:TYR:CE1	2.54	0.42
2:PG:285:GLN:HE22	2:PG:287:SER:HB3	1.84	0.42
2:PI:152:LEU:O	2:PI:156:ARG:HG2	2.19	0.42
2:PK:252:LEU:HA	2:PK:255:PHE:CE2	2.54	0.42
2:PK:267:PHE:HB2	2:PK:432:TYR:OH	2.18	0.42
1:PL:318:ARG:NH1	1:PL:358:PRO:HG3	2.34	0.42
1:PL:396:HIS:HA	1:PL:399:THR:OG1	2.19	0.42
1:QC:100:ASN:ND2	1:QC:397:TRP:HB3	2.34	0.42
1:QC:113:ILE:HD12	1:QC:113:ILE:HA	1.95	0.42
1:QC:130:LEU:HD12	1:QC:130:LEU:HA	1.90	0.42
2:QD:392:ASP:OD1	2:QD:393:HIS:N	2.52	0.42
1:QE:131:GLN:HE21	1:QE:250:LEU:HG	1.84	0.42
1:QE:207:LEU:HB3	1:QE:225:LEU:HD22	2.00	0.42
2:QF:75:VAL:HG11	2:QF:94:SER:HB2	2.01	0.42
1:QG:112:LEU:HD23	1:QG:116:VAL:HG23	2.01	0.42
1:QG:133:PHE:HD1	1:QG:164:MET:HE1	1.82	0.42
2:QH:72:PRO:HB2	2:QH:76:ASP:OD2	2.19	0.42
1:QI:139:LEU:HD22	1:QI:188:SER:OG	2.18	0.42
2:QL:36:MET:HE3	2:QL:61:HIS:NE2	2.35	0.42
2:QL:292:THR:HG21	2:QL:335:ILE:HD11	2.00	0.42
2:R:68:LEU:HD11	2:R:149:LEU:HD22	2.01	0.42
2:RB:326:LYS:NZ	1:RC:208:TYR:HD1	2.17	0.42
1:RC:165:MET:HE2	1:RC:165:MET:HB3	1.87	0.42
1:RC:378:PHE:CB	1:RC:415:MET:HE1	2.47	0.42
2:RD:335:ILE:HG23	2:RD:341:ILE:HD11	2.02	0.42
1:RE:165:MET:CE	1:RE:250:LEU:HD22	2.49	0.42
2:RF:428:LEU:HA	2:RF:431:ASP:OD2	2.19	0.42
1:RG:342:ILE:HD12	1:RG:344:TRP:CE2	2.54	0.42
2:RH:166:LYS:H	2:RH:199:ASP:HB2	1.83	0.42
1:RK:268:MET:HA	1:RK:367:PHE:O	2.20	0.42
1:S:66:MET:HE2	1:S:116:VAL:HB	2.01	0.42
1:S:83:GLN:O	1:T:281:TYR:OH	2.19	0.42
2:SA:352:LYS:HD2	1:SB:177:ASP:O	2.18	0.42
1:SD:329:GLN:O	1:SD:333:VAL:HG23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SF:313:ALA:HB1	1:SF:367:PHE:CE1	2.54	0.42
2:SG:392:ASP:HB3	2:SG:425:LEU:HD23	2.02	0.42
1:SJ:122:LYS:HZ2	61:3x:82:TYR:HE1	0.46	0.42
2:SK:237:SER:HA	2:SK:320:ARG:HH11	1.84	0.42
2:SK:316:CYS:HB3	2:SK:352:LYS:HB3	2.01	0.42
2:TA:295:VAL:HG11	2:TA:377:MET:HB2	2.01	0.42
1:TB:66:MET:HE2	1:TB:116:VAL:HG13	2.00	0.42
2:TC:136:MET:HA	2:TC:167:LEU:O	2.19	0.42
1:TD:113:ILE:HD13	1:TD:150:LEU:CD1	2.50	0.42
1:TD:256:ASN:HB3	2:TE:181:VAL:HG12	2.02	0.42
2:TE:177:VAL:HB	2:TE:207:GLU:HG3	2.00	0.42
1:TF:346:PRO:HG3	2:TG:394:LYS:HG2	2.00	0.42
2:TG:392:ASP:OD1	2:TG:393:HIS:N	2.52	0.42
1:TH:246:LEU:HD23	1:TH:352:SER:HA	2.01	0.42
2:TK:133:GLN:O	2:TK:165:SER:OG	2.38	0.42
1:TL:32:PRO:HB3	1:TL:81:TYR:HD2	1.84	0.42
1:TL:165:MET:HE2	1:TL:165:MET:HB3	1.82	0.42
1:U:8:GLN:CD	1:U:17:GLY:HA3	2.44	0.42
1:U:113:ILE:HG13	1:U:117:LEU:HD23	2.00	0.42
2:UC:17:GLY:HA2	2:UC:20:CYS:SG	2.59	0.42
2:UC:216:SER:OG	2:UC:275:VAL:O	2.25	0.42
1:UD:177:ASP:OD1	1:UD:177:ASP:N	2.51	0.42
1:UD:306:ARG:HG3	1:UD:340:TYR:CE2	2.54	0.42
1:UF:28:HIS:NE2	1:UF:241:ARG:HD2	2.34	0.42
1:UF:323:THR:HG21	2:UG:224:TYR:CD1	2.54	0.42
2:UI:139:HIS:O	2:UI:170:THR:HA	2.18	0.42
1:UL:152:ILE:HD13	1:UL:164:MET:HE2	2.01	0.42
1:V:18:SER:O	1:V:22:GLU:HG3	2.19	0.42
1:V:55:SER:HB3	1:W:284:LEU:H	1.84	0.42
2:VA:395:PHE:HD2	2:VA:422:ARG:HD3	1.85	0.42
1:VB:309:ARG:NH2	1:VB:342:ILE:HA	2.35	0.42
2:VC:64:ARG:NE	2:VC:129:CYS:SG	2.90	0.42
2:VC:214:ARG:NH1	62:4B:148:GLY:H	2.17	0.42
2:VC:259:LEU:HD21	2:VC:268:VAL:HG21	2.01	0.42
2:VG:6:CYS:O	2:VG:65:CYS:HA	2.19	0.42
1:VH:130:LEU:O	1:VH:162:ARG:NE	2.52	0.42
2:VI:18:ASN:HD21	2:VI:78:VAL:HG22	1.84	0.42
1:VL:316:LEU:HB2	1:VL:366:THR:HG22	2.01	0.42
2:VM:344:VAL:HB	2:VM:347:CYS:SG	2.59	0.42
1:W:133:PHE:HB2	1:W:164:MET:SD	2.59	0.42
1:W:330:MET:SD	1:W:349:ILE:HG21	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:WB:395:LEU:HD12	1:WB:398:TYR:HB2	2.01	0.42
2:WC:155:GLU:O	2:WC:159:VAL:HG23	2.19	0.42
2:WC:296:PHE:CD2	2:WC:335:ILE:HG13	2.54	0.42
1:WD:295:ASP:OD2	1:WD:297:LYS:HB3	2.19	0.42
1:WF:73:MET:HE3	1:WF:90:PHE:CD2	2.54	0.42
2:WG:167:LEU:HD11	2:WG:255:PHE:CZ	2.53	0.42
2:WI:252:LEU:HA	2:WI:255:PHE:CE1	2.54	0.42
1:WJ:33:THR:HG21	9:0N:243:LEU:O	2.19	0.42
1:WJ:246:LEU:HD22	1:WJ:352:SER:HA	2.01	0.42
1:WL:226:ASN:HA	1:WL:229:VAL:HG22	2.02	0.42
5:XN:256:PHE:O	5:XN:260:MET:HG2	2.19	0.42
5:XP:242:GLY:O	5:XP:246:VAL:HG23	2.19	0.42
7:0D:116:TYR:CZ	7:0D:119:ASN:ND2	2.87	0.42
9:0L:225:CYS:HB3	9:0L:236:MET:HG2	2.01	0.42
9:0M:28:ALA:HB2	9:0M:291:ALA:HB1	2.00	0.42
9:0N:516:TYR:HB2	9:0N:521:GLN:HB2	2.01	0.42
10:0R:37:THR:O	10:0R:41:GLU:HG3	2.18	0.42
10:0S:313:GLU:O	10:0S:317:MET:HG2	2.19	0.42
11:0U:257:LEU:HD23	11:0U:257:LEU:HA	1.91	0.42
16:0k:404:ARG:O	16:0k:408:GLN:OE1	2.37	0.42
16:0k:420:ASP:O	16:0k:424:VAL:HB	2.19	0.42
16:0k:916:ARG:HH21	16:0k:922:ARG:NH2	2.17	0.42
21:0w:75:ASP:OD1	21:0w:76:ALA:N	2.53	0.42
23:1E:72:ARG:HG2	44:2w:370:PHE:CE1	2.54	0.42
24:1H:184:ASP:CG	24:1H:185:PRO:HD2	2.44	0.42
24:1H:473:GLN:HG3	24:1H:474:ARG:H	1.85	0.42
24:1H:598:SER:O	24:1H:602:VAL:HG23	2.18	0.42
24:1I:578:THR:O	24:1I:582:ILE:HG12	2.19	0.42
25:1O:481:VAL:HG13	25:1O:490:LEU:HD11	2.01	0.42
26:1Q:89:PHE:CD2	26:1Q:168:LEU:HD21	2.54	0.42
28:1b:32:GLY:O	28:1b:33:LEU:C	2.61	0.42
28:1h:70:GLU:HG2	28:1h:73:HIS:HB2	2.01	0.42
32:2B:254:SER:HA	32:2B:259:THR:HA	2.02	0.42
41:2o:329:ALA:O	41:2o:332:ARG:HB2	2.20	0.42
41:2o:408:LYS:HA	41:2o:408:LYS:HD2	1.85	0.42
41:2o:464:ARG:O	41:2o:468:ARG:HG2	2.19	0.42
44:2v:397:GLY:O	44:2v:400:LYS:N	2.52	0.42
45:2z:14:LEU:O	45:2z:18:GLN:HG2	2.19	0.42
46:3B:63:LEU:HA	46:3B:351:MET:HE1	2.01	0.42
46:3B:121:ARG:NE	46:3B:205:ASP:OD1	2.39	0.42
46:3B:356:LEU:O	46:3B:360:CYS:CB	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:3H:99:ARG:O	48:3H:102:ARG:HG2	2.19	0.42
49:3P:328:ARG:HD2	49:3P:475:TYR:HD1	1.84	0.42
57:3f:20:GLU:O	57:3f:24:VAL:HG23	2.17	0.42
57:3i:33:LYS:HA	57:3i:36:GLU:CD	2.45	0.42
60:3s:107:THR:O	60:3s:111:GLU:OE1	2.37	0.42
62:4A:430:PRO:HA	62:4A:433:THR:OG1	2.19	0.42
64:5B:83:LEU:HD11	65:5G:73:GLN:HB3	2.01	0.42
65:5G:106:HIS:O	65:5G:109:LYS:HB3	2.19	0.42
65:5H:237:ARG:O	65:5H:241:THR:HG23	2.18	0.42
66:5L:45:ILE:CG1	66:5L:248:LEU:HB3	2.49	0.42
67:5P:30:TYR:HB3	67:5P:105:VAL:HG22	2.01	0.42
67:5P:60:ILE:HD13	67:5P:63:TRP:HZ3	1.84	0.42
1:A:107:THR:OG1	1:A:108:GLU:N	2.52	0.42
2:AA:217:LEU:HD13	2:AA:367:ASP:OD2	2.19	0.42
2:AC:65:CYS:C	2:AC:91:GLN:HE21	2.26	0.42
2:AC:275:VAL:O	2:AC:275:VAL:HG13	2.19	0.42
2:AC:384:ILE:O	2:AC:387:VAL:HG12	2.19	0.42
2:AE:273:ALA:HB3	2:AE:295:VAL:HG23	1.99	0.42
1:AF:253:LEU:HD21	1:AF:316:LEU:HD11	2.01	0.42
2:AG:69:ASP:OD2	2:AG:70:LEU:N	2.51	0.42
2:AG:195:LEU:HD11	2:AG:428:LEU:HD22	2.01	0.42
2:AG:252:LEU:HA	2:AG:255:PHE:CE2	2.55	0.42
1:AH:19:LYS:O	1:AH:22:GLU:HB2	2.18	0.42
1:AH:252:LYS:HB2	1:AH:252:LYS:HE2	1.86	0.42
2:AK:384:ILE:O	2:AK:387:VAL:HG22	2.19	0.42
2:AM:252:LEU:HA	2:AM:255:PHE:CE2	2.55	0.42
1:AN:23:VAL:HG11	1:AN:230:ALA:HB1	2.00	0.42
1:AN:187:LEU:HD11	1:AN:408:PHE:CE1	2.54	0.42
2:BA:33:ASP:HA	2:BA:85:GLN:HB2	2.02	0.42
2:BC:166:LYS:HB2	2:BC:199:ASP:H	1.83	0.42
1:BD:246:LEU:HD21	2:BE:179:THR:HG21	2.01	0.42
1:BD:323:THR:O	1:BD:326:VAL:HG12	2.19	0.42
2:BG:145:THR:HG22	71:BG:501:GTP:O3G	2.19	0.42
1:BJ:189:VAL:HG21	1:BJ:415:MET:SD	2.60	0.42
1:BJ:200:MET:SD	1:BJ:368:ILE:HD12	2.59	0.42
2:BM:206:ASN:HB3	2:BM:210:TYR:CE2	2.55	0.42
2:C:36:MET:HE2	2:C:61:HIS:CE1	2.54	0.42
1:CC:268:MET:HG3	1:CC:368:ILE:CD1	2.50	0.42
1:CE:226:ASN:OD1	69:CE:500:GDP:N1	2.45	0.42
2:CH:259:LEU:HD21	2:CH:316:CYS:HB2	2.01	0.42
1:CI:5:VAL:HG23	1:CI:62:ARG:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CI:167:PHE:CE2	1:CI:233:MET:HG3	2.54	0.42
1:CI:385:PHE:CE2	1:CI:412:GLU:HB2	2.54	0.42
1:CK:327:ASP:HB3	2:CL:177:VAL:HG13	2.01	0.42
1:CK:347:ASN:C	1:CK:347:ASN:HD22	2.26	0.42
2:CL:138:PHE:HE2	2:CL:235:VAL:HG21	1.84	0.42
2:CL:251:ASP:H	2:CL:254:GLU:HB3	1.84	0.42
2:CL:256:GLN:O	2:CL:260:VAL:HG12	2.20	0.42
1:CM:269:GLY:HA3	1:CM:367:PHE:HB3	2.01	0.42
1:CM:409:THR:O	1:CM:412:GLU:HG3	2.19	0.42
2:D:155:GLU:HG2	2:D:197:HIS:CE1	2.54	0.42
2:D:260:VAL:HG12	2:D:266:HIS:HA	2.01	0.42
1:DA:42:LEU:HD13	1:DA:356:ILE:HD11	2.00	0.42
1:DA:170:ILE:HD11	1:DA:377:MET:SD	2.59	0.42
1:DC:70:PRO:HB3	1:DC:92:PHE:CD2	2.55	0.42
2:DF:26:LEU:HD12	2:DF:363:VAL:HG12	2.01	0.42
1:DG:273:LEU:H	1:DG:292:GLN:NE2	2.17	0.42
2:DJ:239:THR:O	2:DJ:243:ARG:HG3	2.19	0.42
1:DK:109:GLY:O	1:DK:113:ILE:N	2.52	0.42
1:DK:170:ILE:N	1:DK:202:ILE:O	2.50	0.42
1:DK:234:SER:O	1:DK:241:ARG:NH2	2.52	0.42
1:DM:65:LEU:HD21	1:DM:85:PHE:CD2	2.53	0.42
1:DM:135:LEU:HD23	1:DM:152:ILE:HD11	2.01	0.42
1:DM:190:HIS:O	1:DM:194:GLU:OE1	2.37	0.42
1:DM:284:LEU:HB2	1:DM:362:LYS:HE3	2.01	0.42
1:E:289:LEU:HD11	1:E:363:MET:HG3	2.02	0.42
2:EA:19:ALA:O	2:EA:22:GLU:HG2	2.19	0.42
2:EA:221:ARG:HB2	27:1S:630:SER:HA	2.01	0.42
1:EB:149:THR:HA	1:EB:152:ILE:HG22	2.00	0.42
1:EB:323:THR:HG21	2:EC:224:TYR:CZ	2.53	0.42
2:EC:76:ASP:OD1	2:EC:79:ARG:NH1	2.53	0.42
2:EE:431:ASP:OD2	2:EE:432:TYR:N	2.52	0.42
2:EG:291:ILE:O	2:EG:295:VAL:HG23	2.19	0.42
1:EH:72:THR:O	1:EH:76:VAL:HG12	2.19	0.42
1:EH:371:ASN:OD1	1:EH:372:THR:N	2.52	0.42
2:EI:275:VAL:HG23	2:EI:368:LEU:HD11	1.99	0.42
1:EJ:253:LEU:HD21	1:EJ:316:LEU:HD21	2.01	0.42
2:EK:260:VAL:HG13	1:EL:397:TRP:HH2	1.84	0.42
2:FC:167:LEU:HD23	2:FC:200:VAL:HB	2.01	0.42
1:FF:65:LEU:HG	1:FF:90:PHE:CE1	2.54	0.42
1:FF:246:LEU:HA	2:FG:11:GLN:HE22	1.84	0.42
2:FG:274:PRO:HG2	2:FG:371:VAL:HG21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FH:86:ARG:HG3	1:GH:281:TYR:HB3	2.01	0.42
1:FH:114:ASP:OD1	1:FH:115:SER:N	2.50	0.42
2:FI:169:TYR:CE2	2:FI:235:VAL:HG22	2.53	0.42
2:FI:252:LEU:HD13	2:FI:255:PHE:HE1	1.84	0.42
1:FJ:331:LEU:HG	1:FJ:335:ASN:ND2	2.32	0.42
1:FJ:415:MET:O	1:FJ:419:VAL:HG23	2.19	0.42
2:FK:275:VAL:O	2:FK:275:VAL:HG13	2.19	0.42
1:FL:222:PHE:HD1	1:FL:225:LEU:HD12	1.83	0.42
1:GB:110:ALA:O	1:GB:113:ILE:HG22	2.19	0.42
2:GC:152:LEU:O	2:GC:156:ARG:HG2	2.19	0.42
2:GC:331:ALA:HA	2:GC:334:THR:HG22	2.01	0.42
1:GD:203:ASP:O	1:GD:207:LEU:HG	2.20	0.42
2:GE:21:TRP:CZ3	2:GE:52:PHE:HB3	2.54	0.42
2:GE:258:ASN:HD22	2:GE:352:LYS:NZ	2.18	0.42
2:GG:47:ASP:N	2:GG:47:ASP:OD1	2.50	0.42
2:GG:103:TYR:CD2	2:GG:189:LEU:HB3	2.54	0.42
1:GH:97:ALA:HB2	1:GH:143:THR:HB	2.00	0.42
2:GI:8:HIS:HD2	2:GI:67:PHE:CE1	2.38	0.42
1:GL:276:ARG:HG3	10:0S:295:LEU:HD11	2.01	0.42
1:H:193:VAL:HG21	1:H:418:LEU:HD13	2.01	0.42
2:HA:3:GLU:HA	2:HA:51:THR:HA	2.01	0.42
2:HA:105:ARG:HA	2:HA:109:THR:HG22	2.02	0.42
2:HC:346:TRP:CD1	1:HD:391:ARG:HG3	2.54	0.42
1:HD:53:GLU:OE1	7:0D:55:HIS:HB2	2.19	0.42
1:HD:144:GLY:N	69:HD:500:GDP:O2B	2.52	0.42
1:HD:318:ARG:HB3	1:HD:357:PRO:HA	2.01	0.42
2:HE:60:LYS:HE3	2:HE:60:LYS:HB2	1.91	0.42
2:HE:252:LEU:HA	2:HE:255:PHE:CE1	2.55	0.42
1:HF:342:ILE:HD12	1:HF:344:TRP:NE1	2.33	0.42
1:HH:322:SER:OG	2:HI:222:PRO:O	2.28	0.42
2:HI:105:ARG:NH2	2:HI:110:ILE:HD13	2.33	0.42
2:HI:188:VAL:O	2:HI:191:THR:HG22	2.18	0.42
2:HI:326:LYS:HE3	1:HJ:220:PRO:HD2	2.01	0.42
1:I:68:LEU:HD12	1:I:97:ALA:HB2	2.00	0.42
1:I:240:LEU:HD11	1:I:250:LEU:HG	2.01	0.42
2:IE:47:ASP:OD1	2:IE:47:ASP:N	2.50	0.42
1:IF:20:PHE:HE1	1:IF:234:SER:N	2.18	0.42
1:IF:219:THR:HG21	7:0D:87:GLU:HG2	2.00	0.42
2:IG:431:ASP:OD2	2:IG:432:TYR:N	2.51	0.42
2:II:399:TYR:O	2:II:402:ARG:NH2	2.51	0.42
2:IK:6:CYS:O	2:IK:65:CYS:HA	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IK:70:LEU:HG	2:IK:145:THR:HG23	2.02	0.42
2:IK:238:LEU:HG	2:IK:318:MET:HE1	2.01	0.42
1:IL:152:ILE:CD1	1:IL:164:MET:HE2	2.49	0.42
2:J:223:SER:OG	2:J:224:TYR:N	2.52	0.42
1:JA:244:GLY:HA3	1:JA:354:CYS:HA	2.00	0.42
2:JD:255:PHE:HA	2:JD:258:ASN:HB3	2.01	0.42
1:JE:200:MET:HB2	1:JE:268:MET:SD	2.59	0.42
2:JF:66:LEU:HD22	2:JF:122:ILE:HG13	2.02	0.42
2:JF:288:VAL:HA	2:JF:291:ILE:HG12	2.01	0.42
1:JG:163:ILE:HG21	1:JG:250:LEU:HD12	2.00	0.42
1:JG:316:LEU:HB2	1:JG:366:THR:OG1	2.19	0.42
2:JH:203:MET:HG3	2:JH:384:ILE:HD11	2.02	0.42
2:JH:420:GLU:OE2	2:NG:308:ARG:NH2	2.53	0.42
1:JI:286:VAL:HG12	1:JI:329:GLN:HG3	2.01	0.42
1:JI:414:ASN:HD22	1:JI:414:ASN:C	2.26	0.42
1:JK:333:VAL:HA	1:JK:336:LYS:HG2	2.00	0.42
2:JN:169:TYR:HB3	2:JN:204:LEU:HD12	2.01	0.42
2:K:3:GLU:HA	2:K:51:THR:HA	2.00	0.42
1:KA:385:PHE:CE2	1:KA:412:GLU:HB3	2.54	0.42
1:KC:315:ALA:HB2	1:KC:330:MET:HE1	2.00	0.42
1:KE:228:LEU:HD21	1:KE:273:LEU:HD21	2.01	0.42
2:KF:194:LEU:O	2:KF:198:THR:OG1	2.36	0.42
1:KG:316:LEU:HD23	1:KG:316:LEU:HA	1.83	0.42
2:KH:72:PRO:O	2:KH:76:ASP:HB2	2.19	0.42
2:KH:256:GLN:O	2:KH:260:VAL:HG22	2.19	0.42
2:KH:301:MET:HE3	2:KH:303:THR:O	2.19	0.42
1:KI:178:THR:HG23	1:KI:181:GLU:HB2	2.00	0.42
2:KJ:291:ILE:O	2:KJ:295:VAL:HG23	2.19	0.42
2:KJ:296:PHE:CZ	2:KJ:377:MET:HE1	2.54	0.42
2:KJ:312:TYR:HB2	2:KJ:343:PHE:CD1	2.55	0.42
1:KK:22:GLU:HG2	1:KK:81:TYR:HE2	1.83	0.42
1:KM:65:LEU:HD21	1:KM:76:VAL:HG11	2.01	0.42
1:KM:267:MET:HE1	1:KM:373:CYS:SG	2.59	0.42
1:KM:329:GLN:OE1	1:KM:329:GLN:N	2.45	0.42
1:LA:187:LEU:O	1:LA:190:HIS:NE2	2.52	0.42
2:LB:142:GLY:HA2	2:LB:183:GLU:HG3	2.02	0.42
2:LB:339:ARG:HD3	2:LB:339:ARG:H	1.84	0.42
1:LC:252:LYS:NZ	2:LD:101:ASN:OD1	2.51	0.42
2:LD:401:LYS:HA	31:1q:120:ARG:NH2	2.35	0.42
2:LF:330:ALA:HB1	45:2y:377:ASP:OD2	2.18	0.42
1:LG:72:THR:O	1:LG:76:VAL:HG23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LG:167:PHE:CE2	1:LG:233:MET:HG2	2.54	0.42
1:LG:350:LYS:HA	2:LH:179:THR:O	2.19	0.42
2:LH:60:LYS:NZ	2:LH:85:GLN:O	2.49	0.42
2:LH:398:MET:HE1	2:LH:404:PHE:CD2	2.54	0.42
2:LH:416:GLY:O	2:LH:420:GLU:HG2	2.20	0.42
1:LI:8:GLN:HG3	1:LI:14:ASN:HA	2.00	0.42
1:LI:65:LEU:HB3	1:LI:73:MET:SD	2.60	0.42
2:LJ:269:LEU:HD21	2:LJ:384:ILE:HG12	2.01	0.42
2:LJ:422:ARG:HD2	2:LJ:422:ARG:HA	1.68	0.42
2:MA:241:SER:HA	2:MA:356:ASN:HD21	1.84	0.42
1:MD:70:PRO:HB3	1:MD:92:PHE:CD2	2.54	0.42
1:MF:92:PHE:H	26:1Q:43:ARG:HD3	1.85	0.42
1:MF:261:PRO:HG2	33:2G:114:PRO:HB2	2.02	0.42
1:MH:330:MET:HA	1:MH:330:MET:HE3	2.02	0.42
2:MI:1:MET:HG2	2:MI:2:ARG:H	1.83	0.42
1:MJ:156:ARG:HA	1:MJ:156:ARG:HD3	1.84	0.42
1:ML:178:THR:OG1	1:ML:181:GLU:HB2	2.18	0.42
2:MM:178:SER:HB2	2:MM:180:ALA:O	2.19	0.42
1:MN:294:PHE:HB3	13:0a:76:PHE:HE1	1.83	0.42
1:NB:178:THR:HG22	1:NB:180:VAL:H	1.84	0.42
1:ND:253:LEU:O	1:ND:257:LEU:HB2	2.19	0.42
2:NE:271:SER:HA	2:NE:302:LEU:HB2	2.01	0.42
1:NF:193:VAL:HA	1:NF:264:HIS:HE2	1.85	0.42
2:NG:270:THR:HA	2:NG:377:MET:O	2.19	0.42
2:NG:360:PRO:HD2	2:NG:371:VAL:O	2.19	0.42
1:NH:132:GLY:HA2	1:NH:162:ARG:HG3	2.01	0.42
1:NJ:20:PHE:HA	1:NJ:230:ALA:HB1	2.01	0.42
1:NJ:121:ARG:O	1:NJ:124:ALA:N	2.52	0.42
1:NJ:220:PRO:HA	18:0p:198:ARG:HH21	1.84	0.42
1:NL:272:PRO:HA	1:NL:292:GLN:NE2	2.34	0.42
1:O:21:TRP:HZ3	1:O:50:TYR:HB3	1.84	0.42
2:OA:121:ARG:HD3	2:OA:124:LYS:HZ3	1.84	0.42
2:OA:376:CYS:C	2:OA:377:MET:HE2	2.44	0.42
1:OB:316:LEU:HB2	1:OB:366:THR:OG1	2.18	0.42
2:OC:352:LYS:HD2	1:OD:177:ASP:O	2.19	0.42
1:OD:246:LEU:HD21	2:OE:179:THR:HG21	2.01	0.42
1:OH:344:TRP:CD1	1:OH:344:TRP:H	2.37	0.42
1:OJ:193:VAL:HG22	1:OJ:265:PHE:HE1	1.83	0.42
1:OL:175:VAL:HG11	1:OL:204:ASN:HB3	2.00	0.42
1:OL:251:ARG:HH21	2:OM:105:ARG:NH1	2.14	0.42
1:OL:325:GLU:N	1:OL:325:GLU:OE1	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OM:324:VAL:O	2:OM:328:VAL:HG23	2.20	0.42
1:P:87:PRO:HA	1:P:90:PHE:HD2	1.84	0.42
1:P:267:MET:HB2	1:P:301:GLN:HE22	1.83	0.42
1:PB:207:LEU:HB3	1:PB:225:LEU:CD1	2.49	0.42
2:PC:240:ALA:O	2:PC:356:ASN:ND2	2.52	0.42
2:PC:246:GLY:HA3	2:PC:356:ASN:HA	2.01	0.42
1:PD:102:ALA:HB2	1:PD:403:MET:HE2	2.00	0.42
1:PH:83:GLN:HG3	39:2X:33:SER:CB	2.49	0.42
1:PH:304:ASP:N	1:PH:373:CYS:SG	2.88	0.42
2:PI:165:SER:HA	2:PI:199:ASP:OD2	2.18	0.42
2:PI:384:ILE:O	2:PI:387:VAL:HG12	2.20	0.42
2:PI:422:ARG:HD2	2:PI:422:ARG:HA	1.75	0.42
1:PJ:18:SER:O	1:PJ:22:GLU:HG3	2.19	0.42
2:PK:70:LEU:HD13	2:PK:145:THR:HG23	2.01	0.42
2:PM:358:GLN:HA	2:PM:358:GLN:OE1	2.20	0.42
2:Q:246:GLY:HA3	2:Q:356:ASN:HA	2.01	0.42
2:QD:17:GLY:HA2	2:QD:20:CYS:SG	2.59	0.42
2:QD:195:LEU:HD22	2:QD:267:PHE:CZ	2.55	0.42
2:QF:88:ASN:OD1	2:QF:89:PRO:HD2	2.19	0.42
2:QJ:203:MET:HE1	2:QJ:267:PHE:HB3	2.01	0.42
2:QJ:346:TRP:HB3	1:QK:391:ARG:HG3	2.01	0.42
2:R:88:ASN:O	2:R:92:LEU:HD13	2.19	0.42
2:R:93:VAL:HG21	2:R:118:ALA:HA	2.01	0.42
2:R:301:MET:HE3	2:R:307:PRO:HG3	2.01	0.42
2:R:352:LYS:HE2	1:RA:99:ASN:HD22	1.84	0.42
1:RA:67:ASP:HB3	1:RA:73:MET:CE	2.43	0.42
1:RA:355:ASP:OD2	28:1X:186:ASN:N	2.52	0.42
2:RB:367:ASP:OD1	2:RB:367:ASP:N	2.52	0.42
1:RC:193:VAL:HG12	1:RC:265:PHE:HE1	1.83	0.42
1:RC:261:PRO:O	1:RC:264:HIS:ND1	2.48	0.42
1:RC:270:PHE:HD1	1:RC:366:THR:HG22	1.84	0.42
2:RD:115:VAL:HG22	2:RD:119:LEU:HD23	1.99	0.42
2:RF:81:GLY:HA3	28:1Y:43:TYR:HE1	1.83	0.42
2:RF:97:GLU:HG2	2:RF:105:ARG:NH2	2.33	0.42
2:RF:209:ILE:HG23	2:RF:230:LEU:HD12	2.01	0.42
2:RF:336:LYS:HE3	2:RF:351:PHE:CD2	2.55	0.42
1:RI:17:GLY:O	1:RI:21:TRP:HD1	2.03	0.42
1:SB:21:TRP:CZ2	1:SB:63:ALA:HB2	2.54	0.42
1:SB:238:CYS:HB2	1:SB:318:ARG:HH11	1.84	0.42
2:SE:47:ASP:N	2:SE:47:ASP:OD1	2.50	0.42
2:SG:142:GLY:CA	2:SG:183:GLU:HG3	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SI:269:LEU:HD22	2:SI:303:THR:HG21	2.01	0.42
2:SI:422:ARG:HA	2:SI:422:ARG:HD2	1.80	0.42
2:TE:254:GLU:O	2:TE:258:ASN:ND2	2.50	0.42
1:TF:7:CYS:O	1:TF:135:LEU:HA	2.20	0.42
1:TF:213:ARG:CD	1:TF:297:LYS:HE3	2.49	0.42
1:TF:256:ASN:O	1:TF:312:THR:HG21	2.19	0.42
1:TH:69:GLU:CD	1:TH:71:GLY:H	2.27	0.42
1:TH:326:VAL:HG21	1:TH:353:ILE:HD11	2.00	0.42
1:TH:377:MET:HB3	1:TH:377:MET:HE2	1.78	0.42
2:TI:32:PRO:O	2:TI:86:LEU:HB2	2.19	0.42
2:TI:171:VAL:HG13	2:TI:205:ASP:HA	2.01	0.42
2:TI:206:ASN:HD22	2:TI:227:VAL:HG11	1.84	0.42
1:TJ:130:LEU:HD11	1:TJ:162:ARG:HG3	2.00	0.42
1:TJ:332:ASN:OD1	1:TJ:336:LYS:HE3	2.20	0.42
2:TK:195:LEU:HD21	2:TK:428:LEU:HD12	2.01	0.42
1:TL:11:GLN:HA	1:TL:72:THR:HG21	2.00	0.42
1:U:355:ASP:CG	53:3W:106:THR:HG23	2.44	0.42
2:UC:27:GLU:OE2	2:UC:243:ARG:NH2	2.52	0.42
2:UC:84:ARG:HE	2:UC:85:GLN:NE2	2.16	0.42
1:UF:193:VAL:HG22	1:UF:265:PHE:HE1	1.83	0.42
1:UF:210:ILE:HG12	1:UF:297:LYS:O	2.19	0.42
2:UG:7:ILE:HD11	2:UG:122:ILE:HD11	2.01	0.42
2:UG:71:GLU:OE1	2:UG:73:THR:OG1	2.35	0.42
2:UG:292:THR:HG21	2:UG:331:ALA:HB1	2.02	0.42
1:V:372:THR:O	1:V:375:GLN:HG2	2.19	0.42
1:V:380:ARG:O	1:V:384:GLN:OE1	2.37	0.42
2:VA:326:LYS:HB3	1:VB:208:TYR:CE1	2.54	0.42
1:VF:151:LEU:O	1:VF:155:LEU:HD13	2.20	0.42
2:VG:215:ARG:HH12	2:VG:299:ALA:HB1	1.85	0.42
1:VH:135:LEU:HG	1:VH:137:HIS:HD1	1.83	0.42
1:VH:350:LYS:HG3	2:VI:179:THR:O	2.19	0.42
1:VL:273:LEU:HA	53:3X:52:TYR:OH	2.18	0.42
1:VL:377:MET:HA	1:VL:380:ARG:HD2	2.01	0.42
2:VM:251:ASP:H	2:VM:254:GLU:HB2	1.84	0.42
2:VM:325:PRO:HA	2:VM:328:VAL:HG22	2.00	0.42
1:W:5:VAL:HG23	1:W:62:ARG:HB3	2.00	0.42
1:W:198:GLU:HB2	1:W:266:PHE:CE2	2.53	0.42
2:WA:49:PHE:HB2	2:WA:53:PHE:HB2	2.01	0.42
2:WC:22:GLU:HB3	2:WC:83:TYR:HE2	1.83	0.42
2:WC:47:ASP:OD1	2:WC:47:ASP:N	2.49	0.42
2:WC:142:GLY:CA	2:WC:183:GLU:HG3	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:WD:172:SER:HA	1:WD:380:ARG:HH12	1.84	0.42
1:WD:330:MET:HE3	1:WD:351:SER:HB3	2.00	0.42
2:WI:297:GLU:CD	2:WI:298:PRO:HD2	2.44	0.42
1:WL:165:MET:HE1	1:WL:236:VAL:HG21	2.01	0.42
1:WL:177:ASP:OD1	1:WL:177:ASP:N	2.52	0.42
1:WL:317:PHE:HB2	1:WL:353:ILE:HD13	2.01	0.42
2:WM:19:ALA:O	2:WM:22:GLU:HG3	2.19	0.42
3:X:180:GLU:HG2	3:X:181:PHE:HD1	1.84	0.42
3:XA:25:TRP:CD2	3:XA:61:CYS:HB2	2.55	0.42
3:XF:26:ASP:HB2	3:XF:63:ALA:HA	2.01	0.42
3:XF:87:PHE:CD1	3:XF:160:CYS:HB3	2.54	0.42
5:XN:254:PRO:CA	5:XN:306:MET:HE2	2.46	0.42
4:XO:176:LEU:HD23	4:XO:176:LEU:HA	1.88	0.42
8:0G:133:ARG:O	8:0G:137:GLU:OE1	2.37	0.42
8:0I:297:ARG:HG2	8:0I:297:ARG:HH11	1.83	0.42
9:0L:101:ILE:HG22	9:0L:102:HIS:CE1	2.54	0.42
9:0L:558:LEU:HD11	9:0L:562:GLY:HA2	2.01	0.42
9:0M:204:THR:O	9:0M:216:CYS:HA	2.19	0.42
9:0N:218:THR:OG1	9:0N:222:ASP:OD1	2.32	0.42
12:0W:51:LYS:O	12:0W:53:THR:HG23	2.19	0.42
12:0W:292:ARG:HD2	12:0W:326:CYS:SG	2.59	0.42
14:0d:322:GLU:O	14:0d:326:THR:HG23	2.18	0.42
17:0n:191:ARG:NH2	43:2t:243:HIS:HB3	2.33	0.42
22:0z:79:PRO:HG2	22:0z:128:ARG:HB2	2.02	0.42
23:1E:63:ASP:O	23:1E:67:LEU:HD23	2.19	0.42
24:1I:247:PHE:O	24:1I:251:ASP:HB2	2.20	0.42
24:1J:528:ILE:HD13	24:1J:584:THR:HG22	2.01	0.42
24:1K:318:LYS:HD3	24:1K:318:LYS:HA	1.77	0.42
26:1Q:173:ALA:HB2	37:2S:25:VAL:HG12	2.02	0.42
26:1Q:549:PHE:HZ	26:1Q:559:GLY:HA2	1.83	0.42
27:1T:643:ASP:O	27:1T:646:ARG:NH2	2.47	0.42
28:1a:254:LEU:HD11	28:1b:22:ILE:HD13	2.02	0.42
33:2F:168:PRO:HA	33:2F:169:PRO:HD3	1.92	0.42
33:2I:136:ARG:HG3	33:2I:136:ARG:NH1	2.34	0.42
35:2O:45:HIS:HB3	35:2O:49:ALA:CB	2.50	0.42
37:2S:95:ASN:HD22	37:2S:160:LEU:HD12	1.83	0.42
37:2S:108:GLN:NE2	37:2S:110:GLN:OE1	2.38	0.42
37:2S:198:GLU:O	37:2S:202:ASN:HB2	2.19	0.42
41:2c:364:ASN:HA	41:2c:367:PHE:CD2	2.54	0.42
41:2h:173:LEU:O	41:2h:177:THR:HG23	2.19	0.42
44:2v:218:ARG:HH12	44:2v:380:ASP:CB	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:2v:292:ASP:HB2	44:2v:295:VAL:CG1	2.44	0.42
44:2w:368:ARG:NE	44:2w:368:ARG:HA	2.35	0.42
47:3D:68:ARG:O	47:3D:68:ARG:HG2	2.18	0.42
48:3F:219:LYS:O	48:3F:222:ARG:HD3	2.18	0.42
59:3p:247:LEU:HD12	59:3p:251:LEU:HB3	2.01	0.42
61:3w:234:ASP:O	61:3w:236:LYS:HG2	2.19	0.42
64:5C:97:LEU:HA	64:5C:100:GLU:HG3	2.01	0.42
66:5L:159:TRP:O	66:5L:233:ARG:HA	2.19	0.42
67:5P:6:VAL:HB	67:5P:80:MET:HE1	2.01	0.42
1:A:187:LEU:HD13	1:A:403:MET:HE1	2.01	0.42
2:AA:49:PHE:HB2	2:AA:53:PHE:HB2	2.02	0.42
2:AA:223:SER:OG	2:AA:224:TYR:N	2.52	0.42
2:AA:324:VAL:HG21	1:AB:219:THR:OG1	2.19	0.42
2:AE:322:ASP:OD1	2:AE:373:ARG:NH2	2.53	0.42
2:AE:422:ARG:HA	2:AE:422:ARG:HD2	1.70	0.42
1:AF:309:ARG:N	1:AF:372:THR:OG1	2.46	0.42
2:AI:31:GLN:HB2	2:AI:33:ASP:OD1	2.19	0.42
2:AM:344:VAL:HG11	2:AM:346:TRP:CE2	2.54	0.42
2:AM:346:TRP:CD1	1:AN:391:ARG:HG3	2.54	0.42
2:BA:254:GLU:OE2	1:BB:99:ASN:HB2	2.20	0.42
1:BB:187:LEU:HD13	1:BB:403:MET:HE1	2.01	0.42
1:BB:244:GLY:H	1:BB:247:ASN:HD21	1.68	0.42
2:BE:50:ASN:O	2:BE:64:ARG:NH1	2.52	0.42
2:BE:156:ARG:HG3	2:BE:156:ARG:NH1	2.34	0.42
1:BF:65:LEU:C	1:BF:73:MET:HE1	2.44	0.42
1:BH:135:LEU:HG	1:BH:137:HIS:HD2	1.85	0.42
2:BI:3:GLU:HG2	2:BI:129:CYS:CB	2.49	0.42
2:BK:268:VAL:HG11	2:BK:378:ILE:HG22	2.00	0.42
2:BK:269:LEU:HG	2:BK:379:ALA:O	2.19	0.42
1:BL:150:LEU:HG	1:BL:154:LYS:HZ1	1.83	0.42
2:BM:182:VAL:HG22	2:BM:185:TYR:HB2	2.00	0.42
2:C:393:HIS:O	2:C:397:LEU:HD23	2.20	0.42
1:CA:44:LEU:H	1:CA:44:LEU:HD23	1.83	0.42
1:CE:73:MET:HG3	1:CE:92:PHE:CD1	2.55	0.42
2:CF:317:LEU:HD21	2:CF:377:MET:HE3	2.00	0.42
2:CH:188:VAL:HG12	2:CH:421:ALA:HB1	2.01	0.42
2:CH:306:ASP:CG	2:CH:308:ARG:HE	2.27	0.42
2:CH:313:MET:HG2	2:CH:344:VAL:HG21	2.02	0.42
1:CI:178:THR:HB	1:CI:181:GLU:CG	2.49	0.42
2:CJ:331:ALA:O	2:CJ:334:THR:HG22	2.20	0.42
1:CK:9:ALA:HB3	1:CK:137:HIS:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CL:209:ILE:HD11	2:CL:302:LEU:HD11	2.00	0.42
1:CM:46:ARG:HG3	1:CM:46:ARG:HH11	1.84	0.42
1:DA:132:GLY:HA3	1:DA:163:ILE:O	2.19	0.42
2:DF:262:TYR:HB2	2:DF:265:ILE:HG12	2.01	0.42
2:DH:6:CYS:O	2:DH:65:CYS:HA	2.19	0.42
2:DH:174:SER:HB3	2:DH:177:VAL:O	2.19	0.42
1:DK:249:ASP:OD1	1:DK:252:LYS:HG2	2.18	0.42
2:DL:109:THR:OG1	2:DL:110:ILE:HD12	2.18	0.42
1:DM:48:ASN:HA	1:DM:51:PHE:O	2.19	0.42
1:DM:238:CYS:HA	1:DM:241:ARG:HH12	1.84	0.42
2:EA:209:ILE:HG12	2:EA:302:LEU:HD12	2.01	0.42
2:EA:439:SER:HB2	1:EB:390:ARG:HH22	1.84	0.42
1:EB:67:ASP:O	1:EB:92:PHE:HA	2.18	0.42
1:EB:252:LYS:HA	1:EB:255:VAL:HG12	2.02	0.42
2:EE:324:VAL:HG13	2:EE:327:ASP:H	1.84	0.42
1:EF:45:GLU:HG2	42:2r:351:TYR:OH	2.19	0.42
1:EF:345:ILE:HD13	2:EG:398:MET:HG2	2.01	0.42
2:EG:7:ILE:HG12	2:EG:122:ILE:HD11	2.02	0.42
2:EG:166:LYS:HB2	2:EG:199:ASP:H	1.84	0.42
2:EI:269:LEU:HD12	2:EI:269:LEU:H	1.84	0.42
1:EJ:12:CYS:O	1:EJ:16:ILE:HG12	2.18	0.42
1:EJ:51:PHE:HB3	1:EJ:59:TYR:HB3	2.01	0.42
2:EK:312:TYR:HA	2:EK:381:SER:HB2	2.00	0.42
2:EK:328:VAL:HG21	2:EK:355:ILE:HD11	2.02	0.42
2:EK:386:GLU:HG2	2:EK:390:ARG:NH1	2.32	0.42
1:F:408:PHE:O	1:F:412:GLU:HG2	2.19	0.42
1:FB:140:GLY:O	1:FB:184:ASN:ND2	2.49	0.42
2:FC:326:LYS:HB2	1:FD:212:PHE:HZ	1.84	0.42
2:FC:389:ALA:HA	2:FC:392:ASP:OD2	2.19	0.42
2:FC:414:GLU:HB2	2:FC:417:GLU:HG3	2.02	0.42
2:FE:19:ALA:HA	2:FE:22:GLU:HG2	2.00	0.42
2:FE:352:LYS:HD2	1:FF:177:ASP:O	2.20	0.42
1:FF:210:ILE:HD11	1:FF:298:ASN:HA	2.02	0.42
2:FG:240:ALA:HA	2:FG:243:ARG:HE	1.83	0.42
2:FG:406:HIS:HA	2:FG:409:VAL:HG22	2.00	0.42
1:FH:110:ALA:O	1:FH:113:ILE:HG22	2.20	0.42
1:FJ:164:MET:HA	1:FJ:164:MET:HE3	2.01	0.42
2:GA:338:LYS:HG2	2:GA:340:THR:HG22	2.01	0.42
1:GB:330:MET:SD	1:GB:349:ILE:HG21	2.60	0.42
1:GD:101:TRP:CE2	1:GD:187:LEU:HB3	2.53	0.42
2:GE:251:ASP:O	2:GE:254:GLU:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GE:251:ASP:N	2:GE:254:GLU:HB2	2.35	0.42
1:GF:317:PHE:HB3	1:GF:321:MET:CE	2.49	0.42
2:GG:252:LEU:HD13	2:GG:255:PHE:HZ	1.84	0.42
2:GG:270:THR:HA	2:GG:377:MET:O	2.19	0.42
2:GI:393:HIS:O	2:GI:397:LEU:HD23	2.20	0.42
2:GK:293:ASN:OD1	2:GK:338:LYS:NZ	2.36	0.42
2:GK:297:GLU:CD	2:GK:298:PRO:HD2	2.44	0.42
1:H:8:GLN:HB2	1:H:13:GLY:O	2.20	0.42
2:HC:213:THR:HA	2:HC:217:LEU:HB2	2.01	0.42
1:HF:314:SER:HB3	1:HF:368:ILE:HG23	2.01	0.42
2:HG:187:CYS:O	2:HG:191:THR:HG23	2.19	0.42
2:HI:88:ASN:OD1	2:HI:89:PRO:HD2	2.19	0.42
1:HJ:333:VAL:HA	1:HJ:336:LYS:HG3	2.01	0.42
2:HK:311:LYS:HD2	2:HK:344:VAL:HA	2.00	0.42
1:HL:324:LYS:HZ1	2:HM:222:PRO:N	2.17	0.42
2:HM:153:LEU:O	2:HM:157:LEU:HD23	2.20	0.42
1:I:423:GLN:HA	1:I:426:GLN:HG3	2.01	0.42
1:IB:403:MET:HE3	1:IB:408:PHE:CE2	2.54	0.42
2:IC:9:ILE:HB	2:IC:139:HIS:HB3	2.00	0.42
2:IG:51:THR:HG21	2:IG:243:ARG:HG2	2.02	0.42
2:IG:221:ARG:HB2	7:0D:123:PRO:O	2.19	0.42
1:IH:9:ALA:HB3	1:IH:137:HIS:HB3	2.01	0.42
1:IH:167:PHE:CD2	1:IH:268:MET:HE1	2.54	0.42
1:IH:230:ALA:HA	1:IH:233:MET:HG3	2.01	0.42
1:IH:323:THR:HA	1:IH:326:VAL:HG12	2.02	0.42
2:II:91:GLN:OE1	2:II:125:LEU:HD21	2.20	0.42
1:IL:73:MET:HA	1:IL:76:VAL:HG12	2.02	0.42
1:IL:190:HIS:HA	1:IL:193:VAL:HB	2.01	0.42
2:J:284:GLU:OE2	2:J:284:GLU:N	2.51	0.42
1:JA:183:TYR:CZ	1:JA:388:MET:HB3	2.53	0.42
2:JD:103:TYR:HB3	2:JD:408:TYR:HE2	1.84	0.42
2:JF:395:PHE:CD2	2:JF:422:ARG:HD3	2.55	0.42
1:JG:21:TRP:CZ3	1:JG:50:TYR:HB3	2.54	0.42
2:JH:25:CYS:HB3	2:JH:30:ILE:O	2.20	0.42
1:JI:144:GLY:N	69:JI:500:GDP:O2B	2.45	0.42
1:JI:323:THR:HA	1:JI:326:VAL:HG12	2.01	0.42
2:JJ:135:PHE:HB2	2:JJ:166:LYS:HG2	2.01	0.42
2:JJ:234:VAL:O	2:JJ:237:SER:OG	2.31	0.42
1:JK:20:PHE:HA	1:JK:230:ALA:HB1	2.01	0.42
1:JK:194:GLU:OE2	1:JK:414:ASN:ND2	2.52	0.42
1:JK:324:LYS:HG2	2:JL:210:TYR:CD1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JL:155:GLU:O	2:JL:159:VAL:HG23	2.20	0.42
2:JL:422:ARG:HD2	2:JL:422:ARG:HA	1.80	0.42
1:JM:148:GLY:O	1:JM:152:ILE:HG12	2.19	0.42
2:KB:68:LEU:HD11	2:KB:118:ALA:HB1	2.01	0.42
1:KC:74:ASP:OD1	20:0t:253:ARG:HD2	2.19	0.42
1:KC:226:ASN:OD1	69:KC:500:GDP:N1	2.39	0.42
1:KC:330:MET:O	1:KC:333:VAL:HG12	2.19	0.42
1:KC:344:TRP:HB3	1:KC:430:VAL:HG12	2.00	0.42
2:KD:156:ARG:O	2:KD:160:ASP:HB2	2.20	0.42
2:KF:169:TYR:HB3	2:KF:204:LEU:HD12	2.00	0.42
1:KG:114:ASP:HB3	35:2N:245:HIS:NE2	2.34	0.42
1:KG:331:LEU:HD11	2:KH:176:GLN:HB3	2.01	0.42
2:KH:66:LEU:HG	2:KH:68:LEU:HG	2.02	0.42
1:KI:87:PRO:HG2	1:LI:278:SER:HB3	2.02	0.42
2:KJ:271:SER:OG	2:KJ:377:MET:HB3	2.19	0.42
1:KK:62:ARG:HG3	1:KK:123:GLU:OE2	2.19	0.42
1:KK:372:THR:O	1:KK:375:GLN:NE2	2.52	0.42
2:KL:258:ASN:HD21	1:KM:178:THR:CB	2.32	0.42
1:KM:80:PRO:HG3	49:3Q:518:TYR:HD2	1.81	0.42
2:L:291:ILE:O	2:L:295:VAL:HG23	2.19	0.42
1:LA:324:LYS:HB3	2:LB:222:PRO:HD2	2.01	0.42
1:LC:164:MET:HE2	1:LC:164:MET:HB2	1.96	0.42
1:LE:28:HIS:NE2	1:LE:241:ARG:HD2	2.33	0.42
2:LF:63:PRO:HG2	2:LF:87:PHE:CD1	2.55	0.42
2:LF:215:ARG:HD2	2:LF:216:SER:HB3	2.01	0.42
1:LG:11:GLN:HA	1:LG:72:THR:HG21	2.01	0.42
1:LI:323:THR:HG21	2:LJ:224:TYR:CE1	2.55	0.42
1:LI:421:GLU:HA	13:0Z:142:PHE:CD2	2.50	0.42
2:LJ:117:LEU:HA	2:LJ:120:ASP:OD2	2.20	0.42
1:LK:306:ARG:NH1	35:2O:117:ALA:HB2	2.35	0.42
2:LL:206:ASN:OD1	71:LL:501:GTP:O2'	2.31	0.42
2:LN:236:SER:O	2:LN:243:ARG:NH2	2.52	0.42
1:LO:65:LEU:HD22	1:LO:90:PHE:CE2	2.54	0.42
1:M:131:GLN:O	1:M:163:ILE:HG22	2.18	0.42
2:MC:199:ASP:HB3	2:MC:256:GLN:OE1	2.19	0.42
1:MD:292:GLN:HG2	1:MD:298:ASN:ND2	2.34	0.42
2:ME:22:GLU:OE2	23:1A:131:ARG:NH2	2.38	0.42
1:MF:16:ILE:HG22	1:MF:233:MET:HE1	1.99	0.42
1:MF:197:ASP:OD2	1:MF:198:GLU:HG2	2.19	0.42
2:MG:5:ILE:HG23	2:MG:125:LEU:HD13	2.01	0.42
2:MG:142:GLY:CA	2:MG:183:GLU:HG3	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MH:201:CYS:SG	1:MH:374:ILE:HD11	2.59	0.42
2:MI:272:TYR:HD1	2:MI:376:CYS:HB2	1.85	0.42
1:MJ:31:ASP:CG	1:MJ:37:GLN:HE22	2.27	0.42
1:MJ:121:ARG:O	1:MJ:125:GLU:HG3	2.19	0.42
1:MJ:163:ILE:HG23	1:MJ:197:ASP:OD2	2.18	0.42
1:MJ:274:THR:HB	1:MJ:279:GLN:HB3	2.01	0.42
2:MK:90:GLU:CD	2:MK:91:GLN:HG3	2.44	0.42
1:ML:27:GLU:HG3	45:2z:145:PHE:HZ	1.84	0.42
1:MN:112:LEU:HD23	1:MN:116:VAL:HG23	2.01	0.42
1:NB:102:ALA:HB2	1:NB:403:MET:HE2	2.01	0.42
1:NB:104:GLY:O	1:NB:147:MET:HE3	2.19	0.42
2:NC:119:LEU:HD23	2:NC:119:LEU:HA	1.90	0.42
2:NC:395:PHE:HZ	2:NC:418:PHE:HB3	1.84	0.42
2:NE:209:ILE:HG21	2:NE:227:VAL:HG13	2.01	0.42
2:NE:252:LEU:HA	2:NE:255:PHE:CE2	2.54	0.42
1:NF:161:ASP:OD1	1:NF:161:ASP:N	2.48	0.42
1:NF:307:HIS:HB3	60:3s:44:TYR:HE2	1.84	0.42
2:NG:9:ILE:HG22	2:NG:146:GLY:HA2	2.02	0.42
1:NH:313:ALA:HA	1:NH:369:GLY:HA2	2.01	0.42
2:NK:260:VAL:HG12	2:NK:266:HIS:HA	2.01	0.42
1:NL:46:ARG:HH22	2:NM:72:PRO:C	2.27	0.42
1:NL:211:CYS:HA	1:NL:215:LEU:HB2	2.01	0.42
2:NM:239:THR:HG23	2:NM:243:ARG:HE	1.83	0.42
2:NM:422:ARG:HA	2:NM:422:ARG:HH11	1.84	0.42
1:O:296:ALA:HB1	1:O:304:ASP:OD1	2.19	0.42
2:OA:15:GLN:HA	2:OA:18:ASN:ND2	2.34	0.42
2:OC:220:GLU:HB2	2:OC:221:ARG:HD3	2.02	0.42
2:OE:2:ARG:HG3	2:OE:2:ARG:HH11	1.85	0.42
2:OG:141:VAL:HG11	2:OG:194:LEU:HD21	2.00	0.42
1:OH:65:LEU:HD13	1:OH:90:PHE:CD1	2.53	0.42
1:OH:101:TRP:CE3	1:OH:187:LEU:HD13	2.54	0.42
1:OJ:173:PRO:HD2	1:OJ:380:ARG:NH1	2.33	0.42
1:OL:322:SER:OG	2:OM:222:PRO:O	2.26	0.42
2:OM:90:GLU:O	2:OM:91:GLN:HG3	2.19	0.42
1:P:22:GLU:HA	1:P:81:TYR:CE2	2.54	0.42
2:PA:195:LEU:HA	2:PA:266:HIS:CE1	2.54	0.42
2:PA:428:LEU:HG	2:PA:432:TYR:CE2	2.54	0.42
1:PB:130:LEU:HD23	1:PB:130:LEU:H	1.84	0.42
1:PB:177:ASP:N	1:PB:177:ASP:OD1	2.52	0.42
2:PC:138:PHE:HE2	2:PC:235:VAL:HG21	1.84	0.42
1:PD:21:TRP:CZ3	1:PD:61:PRO:HB3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PF:151:LEU:HD12	1:PF:151:LEU:HA	1.81	0.42
1:PF:226:ASN:CG	69:PF:500:GDP:HN1	2.24	0.42
1:PF:248:SER:HA	1:PF:252:LYS:HD2	2.02	0.42
2:PI:247:ALA:HB1	1:PJ:222:PHE:HE1	1.85	0.42
1:PL:27:GLU:CD	1:PL:241:ARG:HH12	2.26	0.42
2:PM:275:VAL:O	2:PM:275:VAL:HG13	2.19	0.42
2:QB:9:ILE:HD11	2:QB:153:LEU:HD23	2.00	0.42
1:QC:218:THR:HG22	1:QC:219:THR:HG23	2.00	0.42
1:QC:424:GLN:O	1:QC:428:ALA:HB2	2.18	0.42
2:QD:205:ASP:OD1	2:QD:303:THR:HA	2.20	0.42
2:QD:271:SER:CB	2:QD:301:MET:HA	2.49	0.42
2:QF:188:VAL:O	2:QF:191:THR:HG22	2.20	0.42
1:QG:32:PRO:HG3	1:QG:81:TYR:CE1	2.55	0.42
2:QH:40:LYS:HA	2:QH:40:LYS:HD2	1.85	0.42
2:QJ:203:MET:SD	2:QJ:267:PHE:HD2	2.42	0.42
2:QJ:313:MET:HE2	2:QJ:346:TRP:HZ2	1.83	0.42
1:QK:167:PHE:HE2	1:QK:268:MET:HE1	1.85	0.42
1:QK:186:THR:HG23	1:QK:415:MET:HG3	2.02	0.42
2:R:74:VAL:O	2:R:78:VAL:HG23	2.20	0.42
1:RA:12:CYS:HB2	69:RA:500:GDP:C8	2.54	0.42
1:RA:327:ASP:OD2	2:RB:177:VAL:HG11	2.20	0.42
2:RB:276:VAL:HG23	2:RB:280:LYS:HD3	2.02	0.42
1:RC:268:MET:HB2	1:RC:300:MET:HG3	2.01	0.42
1:RE:60:VAL:HG11	1:RE:86:ARG:HB2	2.01	0.42
1:RE:324:LYS:HE3	2:RF:210:TYR:HB3	2.01	0.42
2:RF:217:LEU:HD22	2:RF:367:ASP:HB2	2.01	0.42
1:RG:318:ARG:HB3	1:RG:357:PRO:HA	2.01	0.42
2:RH:68:LEU:HD11	2:RH:149:LEU:HD21	2.02	0.42
2:RH:204:LEU:HD13	2:RH:231:ILE:HD12	2.02	0.42
1:RK:255:VAL:HG11	2:RL:100:ALA:O	2.19	0.42
1:S:152:ILE:HG23	1:S:164:MET:HE2	2.01	0.42
1:S:242:PHE:HB2	1:S:354:CYS:SG	2.58	0.42
1:SB:321:MET:HG2	1:SB:363:MET:HE2	2.02	0.42
1:SB:329:GLN:O	1:SB:333:VAL:HG23	2.19	0.42
1:SF:54:SER:OG	1:SF:55:SER:N	2.52	0.42
1:SF:77:ARG:HH11	1:SF:77:ARG:HB2	1.84	0.42
1:SF:131:GLN:NE2	2:SG:97:GLU:OE2	2.52	0.42
1:SH:19:LYS:HG3	1:SH:226:ASN:HB2	2.00	0.42
2:SI:12:ALA:HB2	71:SI:501:GTP:C8	2.54	0.42
2:SI:234:VAL:HG21	2:SI:302:LEU:CD2	2.49	0.42
1:SJ:268:MET:HB2	1:SJ:300:MET:HG3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SK:90:GLU:O	2:SK:91:GLN:HG2	2.19	0.42
1:T:73:MET:HA	1:T:73:MET:HE3	2.01	0.42
1:T:416:ASN:OD1	1:T:417:ASP:N	2.52	0.42
1:TB:24:ILE:HG21	1:TB:50:TYR:HD2	1.84	0.42
1:TB:313:ALA:HB1	1:TB:367:PHE:CE1	2.54	0.42
2:TC:93:VAL:HG21	2:TC:117:LEU:HD22	2.00	0.42
2:TE:345:ASP:OD1	2:TE:346:TRP:N	2.52	0.42
1:TF:184:ASN:OD1	1:TF:398:TYR:OH	2.31	0.42
1:TF:346:PRO:HD2	2:TG:398:MET:HG3	2.01	0.42
1:TH:150:LEU:HD11	1:TH:154:LYS:NZ	2.35	0.42
1:TL:306:ARG:NE	1:TL:306:ARG:HA	2.34	0.42
2:UA:19:ALA:O	2:UA:22:GLU:HG2	2.19	0.42
1:UB:134:GLN:HE21	1:UB:167:PHE:HE1	1.67	0.42
2:UC:30:ILE:HD13	53:3W:251:ALA:HB2	2.00	0.42
2:UC:136:MET:HE1	2:UC:235:VAL:HG13	2.00	0.42
2:UE:326:LYS:HD3	1:UF:220:PRO:HG2	2.01	0.42
1:UF:272:PRO:HD3	1:UF:364:SER:HA	2.01	0.42
2:UI:319:TYR:HB3	2:UI:323:VAL:HG21	2.00	0.42
2:UK:298:PRO:O	2:UK:301:MET:HG2	2.20	0.42
2:UK:396:ASP:OD2	2:UK:396:ASP:N	2.52	0.42
1:VB:117:LEU:HD11	1:VB:158:GLU:OE1	2.20	0.42
1:VB:163:ILE:HG21	1:VB:250:LEU:HB3	2.01	0.42
1:VD:20:PHE:HB2	1:VD:233:MET:HE3	2.01	0.42
1:VD:135:LEU:HD12	1:VD:151:LEU:HD23	2.01	0.42
1:VD:295:ASP:OD1	1:VD:296:ALA:N	2.53	0.42
2:VE:54:SER:HB3	2:VE:64:ARG:HH21	1.84	0.42
1:VF:219:THR:O	1:VF:219:THR:OG1	2.34	0.42
1:VF:240:LEU:HD11	1:VF:249:ASP:HA	2.00	0.42
1:VF:344:TRP:CE3	2:VG:401:LYS:HD2	2.54	0.42
2:VG:338:LYS:HG2	2:VG:340:THR:HG22	2.02	0.42
1:VL:233:MET:O	1:VL:236:VAL:HG12	2.20	0.42
2:VM:169:TYR:OH	2:VM:238:LEU:HD23	2.19	0.42
2:WA:338:LYS:HG2	2:WA:340:THR:HG22	2.01	0.42
1:WB:371:ASN:OD1	1:WB:372:THR:N	2.51	0.42
2:WC:139:HIS:O	2:WC:170:THR:HA	2.19	0.42
2:WC:150:GLY:O	2:WC:154:LEU:HD23	2.19	0.42
1:WD:28:HIS:HA	1:WD:43:GLN:HG2	2.01	0.42
1:WD:324:LYS:NZ	2:WE:214:ARG:HB2	2.34	0.42
2:WE:204:LEU:HD22	2:WE:231:ILE:HG12	2.00	0.42
1:WF:199:SER:O	1:WF:265:PHE:HA	2.20	0.42
2:WG:188:VAL:O	2:WG:191:THR:HG22	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:WG:301:MET:HE2	2:WG:301:MET:HB2	1.88	0.42
2:WG:396:ASP:OD2	2:WG:422:ARG:NH2	2.52	0.42
1:WH:347:ASN:O	2:WI:181:VAL:HG12	2.20	0.42
2:WI:260:VAL:HB	1:WJ:397:TRP:HZ2	1.84	0.42
1:WJ:256:ASN:O	1:WJ:312:THR:HG21	2.19	0.42
2:WK:215:ARG:NH2	2:WK:299:ALA:O	2.49	0.42
3:X:49:ILE:HG22	3:X:158:ALA:HA	2.01	0.42
3:XA:10:PHE:CG	3:XA:181:PHE:HE2	2.38	0.42
3:XF:25:TRP:CD2	3:XF:61:CYS:HB2	2.54	0.42
4:XO:235:ALA:O	4:XO:238:PRO:HD2	2.20	0.42
5:XP:194:LEU:HD12	5:XP:234:LEU:HA	2.02	0.42
7:0D:366:LEU:HD23	7:0D:395:ILE:HG12	2.02	0.42
8:0F:102:GLU:HG2	9:0L:549:ARG:NH1	2.34	0.42
9:0M:100:LEU:HD12	9:0M:101:ILE:N	2.34	0.42
9:0M:470:ASN:HD21	9:0M:486:ASP:CG	2.28	0.42
9:0M:494:ASP:O	9:0M:498:TYR:N	2.51	0.42
9:0N:436:ARG:HG3	9:0N:449:TRP:O	2.19	0.42
9:0O:98:ARG:HH11	9:0O:98:ARG:HA	1.84	0.42
9:0O:303:THR:O	9:0O:303:THR:HG22	2.19	0.42
11:0U:25:GLN:HG2	11:0U:38:TYR:HB2	2.01	0.42
14:0c:281:LEU:HD13	21:0v:55:LEU:HD11	2.02	0.42
15:0f:223:LEU:HD11	29:1k:130:LEU:HD23	2.01	0.42
16:0l:270:ARG:HH22	16:0l:361:LYS:HB2	1.84	0.42
19:0r:133:ILE:O	19:0r:133:ILE:HG13	2.19	0.42
21:0w:468:ARG:NH1	21:0w:472:ILE:HB	2.35	0.42
23:1E:54:ASP:OD2	23:1E:56:LYS:HB3	2.19	0.42
24:1H:538:MET:HG3	24:1H:539:LEU:HD12	2.01	0.42
24:1H:641:GLU:H	24:1H:641:GLU:CD	2.27	0.42
24:1I:528:ILE:HD13	24:1I:584:THR:HG22	2.02	0.42
24:1I:745:THR:O	24:1I:749:ILE:HG12	2.19	0.42
24:1J:641:GLU:C	24:1J:645:LYS:HZ2	2.28	0.42
24:1J:699:ARG:HG2	24:1J:712:MET:HE2	2.01	0.42
25:1O:455:GLU:HA	25:1O:458:ARG:HG2	2.02	0.42
28:1U:187:TYR:HA	28:1U:191:TYR:CD2	2.55	0.42
28:1h:18:CYS:CB	28:1h:21:ARG:HB3	2.49	0.42
32:2B:249:ILE:HB	32:2B:266:THR:HG21	2.01	0.42
33:2H:158:ALA:HB3	33:2H:161:GLU:OE1	2.18	0.42
33:2I:70:VAL:HG13	33:2I:83:ILE:HD13	2.01	0.42
35:2O:39:ARG:HG2	35:2O:54:GLN:CG	2.49	0.42
35:2O:49:ALA:O	35:2O:52:GLN:NE2	2.42	0.42
41:2e:345:ARG:HA	41:2e:348:MET:CG	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:2h:369:ARG:O	41:2h:373:LYS:HG2	2.19	0.42
41:2i:435:ALA:O	41:2i:439:ARG:HG2	2.19	0.42
41:2k:147:ARG:NH1	41:2k:152:GLU:OE1	2.50	0.42
42:2r:25:SER:HA	42:2r:28:THR:HG22	2.01	0.42
42:2r:182:THR:HG23	42:2r:185:SER:H	1.85	0.42
43:2t:174:LEU:HB3	43:2t:229:ILE:HD11	2.01	0.42
44:2w:228:MET:HB2	44:2w:291:ILE:HG12	2.00	0.42
44:2w:385:LEU:HA	44:2w:388:ILE:HG12	2.02	0.42
53:3W:308:ARG:HB3	53:3W:312:ARG:HH11	1.84	0.42
56:3d:123:MET:HG3	56:3d:126:ARG:CZ	2.50	0.42
57:3i:24:VAL:HG22	57:3i:28:TYR:CE2	2.54	0.42
57:3i:174:LYS:C	57:3i:174:LYS:HD3	2.44	0.42
28:4V:237:PRO:O	28:4V:241:VAL:HG23	2.19	0.42
59:4a:106:THR:OG1	59:4a:108:SER:OG	2.32	0.42
64:5B:97:LEU:HD21	65:5G:87:LYS:HA	2.01	0.42
66:5L:193:ASP:OD1	66:5L:193:ASP:N	2.53	0.42
67:5O:81:PRO:HG2	67:5O:84:LEU:HD13	2.02	0.42
67:5P:5:ALA:N	67:5P:81:PRO:HG3	2.34	0.42
1:A:173:PRO:HD2	1:A:380:ARG:CZ	2.49	0.42
2:AA:208:ALA:HB2	2:AA:304:LYS:N	2.34	0.42
1:AB:271:ALA:O	1:AB:365:VAL:N	2.50	0.42
2:AC:19:ALA:O	2:AC:22:GLU:HG3	2.18	0.42
2:AC:331:ALA:O	2:AC:334:THR:HG22	2.19	0.42
2:AE:203:MET:O	2:AE:204:LEU:HD22	2.19	0.42
1:AF:252:LYS:HA	2:AG:100:ALA:HB1	2.01	0.42
2:AG:3:GLU:HG2	2:AG:51:THR:O	2.19	0.42
2:AG:187:CYS:O	2:AG:191:THR:HG23	2.19	0.42
2:AG:283:HIS:HD2	2:MG:62:VAL:HG12	1.84	0.42
1:AH:185:THR:O	1:AH:189:VAL:HG23	2.19	0.42
1:AH:272:PRO:HD3	1:AH:364:SER:HA	2.02	0.42
2:AI:28:HIS:C	2:AI:42:ILE:HD13	2.44	0.42
1:AJ:323:THR:HG21	2:AK:224:TYR:CE1	2.54	0.42
2:AK:223:SER:OG	2:AK:224:TYR:N	2.51	0.42
2:AK:251:ASP:N	2:AK:254:GLU:HB3	2.34	0.42
1:AL:257:LEU:HB3	1:AL:266:PHE:CE1	2.55	0.42
2:AM:25:CYS:HB3	2:AM:30:ILE:O	2.19	0.42
2:AM:273:ALA:HB3	2:AM:295:VAL:HG23	2.02	0.42
1:AN:113:ILE:HG13	1:AN:117:LEU:CD2	2.50	0.42
2:BA:210:TYR:CE1	2:BA:227:VAL:HG11	2.55	0.42
1:BB:100:ASN:HB3	1:BB:103:LYS:HB3	2.00	0.42
1:BB:343:GLU:O	1:BB:346:PRO:HD3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BE:17:GLY:HA2	2:BE:20:CYS:SG	2.59	0.42
1:BF:320:ARG:NH1	16:0k:53:ASN:O	2.53	0.42
2:BG:91:GLN:H	2:BG:121:ARG:HH11	1.67	0.42
2:BG:325:PRO:HG2	1:BH:222:PHE:CD1	2.54	0.42
2:BI:101:ASN:HA	2:BI:144:GLY:N	2.35	0.42
2:BI:302:LEU:O	2:BI:302:LEU:HD23	2.19	0.42
1:BL:362:LYS:HZ3	1:BL:363:MET:HE3	1.84	0.42
1:BN:85:PHE:HB2	1:BN:90:PHE:HE1	1.83	0.42
1:CA:118:ASP:O	1:CA:122:LYS:HG2	2.20	0.42
1:CC:276:ARG:NH1	27:1S:354:VAL:HG22	2.35	0.42
1:CC:412:GLU:OE2	1:CC:416:ASN:ND2	2.53	0.42
2:CD:181:VAL:O	2:CD:184:PRO:HD2	2.19	0.42
1:CE:154:LYS:HB2	1:CE:154:LYS:NZ	2.33	0.42
2:CH:288:VAL:HG21	2:CH:323:VAL:HG13	2.01	0.42
2:CH:288:VAL:HA	2:CH:291:ILE:HG12	2.00	0.42
2:CH:370:LYS:NZ	24:1I:248:LEU:HA	2.33	0.42
2:CJ:392:ASP:OD1	2:CJ:393:HIS:N	2.52	0.42
2:CL:1:MET:N	2:CL:3:GLU:OE2	2.42	0.42
2:CL:163:LYS:O	2:CL:163:LYS:HG2	2.20	0.42
1:CM:113:ILE:O	1:CM:117:LEU:HD23	2.20	0.42
2:D:261:PRO:HA	1:DA:394:PHE:CD1	2.55	0.42
2:DB:11:GLN:N	71:DB:501:GTP:O2B	2.52	0.42
2:DB:188:VAL:HG21	2:DB:395:PHE:CD1	2.54	0.42
1:DC:404:ASP:OD2	1:DC:406:MET:HG3	2.20	0.42
2:DD:227:VAL:O	2:DD:231:ILE:HG12	2.20	0.42
1:DE:346:PRO:C	2:DF:394:LYS:HZ3	2.26	0.42
2:DF:271:SER:HB3	2:DF:301:MET:HA	2.00	0.42
1:DG:153:SER:HA	1:DG:195:ASN:ND2	2.35	0.42
2:DH:169:TYR:OH	2:DH:238:LEU:HD23	2.19	0.42
2:DH:238:LEU:HD12	2:DH:318:MET:HG3	2.01	0.42
2:DH:353:CYS:HB2	1:DI:177:ASP:HB2	2.01	0.42
2:DJ:108:TYR:O	2:DJ:112:LYS:HE2	2.20	0.42
2:DJ:127:ASP:OD1	2:DJ:128:ASN:N	2.52	0.42
1:DM:152:ILE:HG22	1:DM:195:ASN:HB3	2.02	0.42
1:E:395:LEU:HD11	1:E:408:PHE:CE2	2.55	0.42
1:EB:12:CYS:SG	1:EB:138:SER:HB3	2.59	0.42
1:EB:228:LEU:O	1:EB:232:VAL:HG23	2.20	0.42
2:EE:142:GLY:CA	2:EE:183:GLU:HG3	2.49	0.42
2:EE:335:ILE:HD13	2:EE:338:LYS:HD3	2.02	0.42
1:EF:47:ILE:HG21	1:EF:59:TYR:CE2	2.55	0.42
2:EG:211:ASP:OD2	2:EG:212:LEU:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EG:320:ARG:O	2:EG:373:ARG:HA	2.19	0.42
2:EI:346:TRP:CZ3	2:EI:347:CYS:HB2	2.54	0.42
1:EJ:86:ARG:HA	1:FJ:281:TYR:CD2	2.53	0.42
1:EL:313:ALA:HB1	1:EL:367:PHE:HE1	1.85	0.42
1:F:268:MET:HE3	1:F:269:GLY:N	2.34	0.42
1:F:415:MET:HA	1:F:418:LEU:HD23	2.02	0.42
2:FA:27:GLU:OE2	2:FA:236:SER:OG	2.27	0.42
2:FA:89:PRO:HB3	59:4O:100:LYS:HG3	2.00	0.42
2:FA:165:SER:HA	2:FA:199:ASP:OD2	2.19	0.42
2:FA:317:LEU:HD21	2:FA:377:MET:HE3	2.01	0.42
1:FB:61:PRO:HD3	1:FB:84:LEU:HG	2.01	0.42
1:FB:208:TYR:CE1	1:FB:225:LEU:HD21	2.54	0.42
1:FD:8:GLN:CD	1:FD:17:GLY:HA3	2.45	0.42
1:FF:133:PHE:HB2	1:FF:164:MET:SD	2.59	0.42
2:FG:431:ASP:OD1	2:FG:432:TYR:N	2.53	0.42
2:FK:75:VAL:O	2:FK:79:ARG:HG3	2.19	0.42
1:G:330:MET:O	1:G:334:GLN:HG2	2.18	0.42
1:GB:289:LEU:HD11	1:GB:363:MET:HG3	2.01	0.42
2:GC:270:THR:HG22	2:GC:378:ILE:HD13	2.01	0.42
1:GD:68:LEU:HD21	1:GD:147:MET:HE1	2.01	0.42
1:GD:76:VAL:HG12	1:GD:77:ARG:NH2	2.34	0.42
1:GD:344:TRP:HZ3	2:GE:403:ALA:HB2	1.84	0.42
2:GE:33:ASP:O	2:GE:60:LYS:NZ	2.43	0.42
2:GI:241:SER:HA	2:GI:356:ASN:HD21	1.84	0.42
2:HA:71:GLU:OE1	2:HA:73:THR:HG22	2.19	0.42
2:HA:269:LEU:HD23	2:HA:379:ALA:O	2.19	0.42
1:HB:330:MET:HA	1:HB:333:VAL:HG12	2.01	0.42
2:HC:319:TYR:CE2	2:HC:328:VAL:HG22	2.54	0.42
1:HD:310:TYR:HD2	1:HD:341:PHE:CE1	2.37	0.42
2:HE:251:ASP:H	2:HE:254:GLU:CB	2.32	0.42
1:HF:4:ILE:HG13	1:HF:131:GLN:HB3	2.01	0.42
1:HF:74:ASP:HA	1:HF:77:ARG:HG2	2.00	0.42
1:HF:323:THR:HG21	2:HG:224:TYR:CE1	2.55	0.42
2:HI:236:SER:HA	2:HI:239:THR:HG22	2.01	0.42
1:HL:164:MET:O	1:HL:165:MET:HE2	2.20	0.42
1:HL:423:GLN:O	1:HL:426:GLN:HG3	2.20	0.42
2:HM:156:ARG:NE	2:HM:156:ARG:HA	2.35	0.42
2:HM:351:PHE:O	2:HM:352:LYS:HD3	2.20	0.42
1:I:211:CYS:O	1:I:217:LEU:N	2.30	0.42
1:I:356:ILE:HA	38:2U:92:TRP:HE1	1.84	0.42
2:IA:310:GLY:HA3	2:IA:383:ALA:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ID:102:ALA:HB1	1:ID:401:GLU:HB2	2.01	0.42
2:IE:109:THR:O	2:IE:112:LYS:NZ	2.51	0.42
2:IE:253:THR:HG21	1:IF:103:LYS:HE2	2.02	0.42
2:IE:422:ARG:NH1	2:IE:426:ALA:HB2	2.32	0.42
1:IF:403:MET:HG2	1:IF:408:PHE:HE1	1.84	0.42
1:IH:289:LEU:HD12	1:IH:363:MET:HE2	2.00	0.42
2:II:175:PRO:HD2	2:II:207:GLU:OE2	2.20	0.42
2:II:220:GLU:HG3	2:II:221:ARG:HD2	2.01	0.42
1:IJ:385:PHE:HE2	1:IJ:412:GLU:HB2	1.85	0.42
2:IK:2:ARG:O	2:IK:51:THR:OG1	2.33	0.42
2:IK:319:TYR:CB	2:IK:323:VAL:HG21	2.49	0.42
1:IL:371:ASN:OD1	1:IL:372:THR:N	2.53	0.42
1:IL:375:GLN:HE22	1:IL:423:GLN:HB3	1.84	0.42
1:JA:62:ARG:HD3	1:JA:127:CYS:SG	2.59	0.42
1:JA:210:ILE:HG23	1:JA:214:THR:HB	2.02	0.42
1:JA:347:ASN:ND2	2:JB:178:SER:OG	2.27	0.42
1:JG:323:THR:HG21	2:JH:224:TYR:CZ	2.54	0.42
2:JH:11:GLN:N	71:JH:501:GTP:O1A	2.53	0.42
1:JI:145:SER:HB2	1:JI:188:SER:OG	2.20	0.42
1:JI:255:VAL:HG23	2:JJ:407:TRP:CG	2.54	0.42
2:JL:251:ASP:N	2:JL:254:GLU:HB3	2.34	0.42
2:K:93:VAL:HG11	2:K:117:LEU:HD11	2.01	0.42
2:KB:244:PHE:HB3	20:0t:250:ALA:O	2.20	0.42
1:KC:306:ARG:HG3	1:KC:340:TYR:CZ	2.55	0.42
2:KD:1:MET:SD	2:KD:1:MET:N	2.84	0.42
2:KD:7:ILE:O	2:KD:137:VAL:HA	2.20	0.42
2:KD:71:GLU:HB3	2:KD:98:ASP:HB2	2.00	0.42
2:KD:425:LEU:HD12	2:KD:425:LEU:HA	1.93	0.42
1:KE:58:ARG:HH11	1:LE:280:GLN:HG2	1.84	0.42
2:KF:306:ASP:OD2	2:KF:308:ARG:HB2	2.18	0.42
2:KF:326:LYS:HZ1	1:KG:220:PRO:C	2.18	0.42
1:KG:246:LEU:HD12	1:KG:246:LEU:HA	1.88	0.42
2:KL:112:LYS:HD3	2:KL:112:LYS:HA	1.90	0.42
1:KM:19:LYS:O	1:KM:22:GLU:HB3	2.18	0.42
1:KM:60:VAL:HG21	1:LM:281:TYR:O	2.19	0.42
2:KN:172:TYR:CE1	2:KN:203:MET:HE1	2.54	0.42
2:KN:256:GLN:O	2:KN:260:VAL:HG22	2.20	0.42
2:L:107:HIS:O	2:L:112:LYS:HE3	2.19	0.42
1:LC:362:LYS:HA	1:LC:362:LYS:HD3	1.89	0.42
2:LD:84:ARG:HD3	29:1k:214:PRO:HG2	2.01	0.42
1:LE:4:ILE:HD11	1:LE:50:TYR:CZ	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LG:326:VAL:O	1:LG:330:MET:HG2	2.19	0.42
2:LH:209:ILE:HG23	2:LH:230:LEU:HD23	2.00	0.42
2:LH:419:SER:O	2:LH:423:GLU:OE1	2.37	0.42
1:LI:67:ASP:N	1:LI:67:ASP:OD2	2.51	0.42
1:LI:117:LEU:HD12	1:LI:121:ARG:NH2	2.34	0.42
1:LI:344:TRP:HB3	1:LI:430:VAL:HG12	2.02	0.42
1:LI:364:SER:OG	1:LI:365:VAL:N	2.52	0.42
1:LK:20:PHE:CG	1:LK:233:MET:HE2	2.54	0.42
2:LL:214:ARG:HD2	2:LL:214:ARG:HA	1.90	0.42
2:LL:322:ASP:HB3	23:1E:52:LEU:HD21	2.01	0.42
1:LM:21:TRP:HZ3	1:LM:50:TYR:HB3	1.84	0.42
2:LN:19:ALA:O	2:LN:22:GLU:HG2	2.20	0.42
2:LN:221:ARG:NH1	23:1F:378:ASP:HA	2.30	0.42
2:MA:280:LYS:HE3	2:MA:280:LYS:HB3	1.75	0.42
1:MD:424:GLN:NE2	32:2B:36:SER:HB3	2.33	0.42
2:MG:70:LEU:HD12	2:MG:99:ALA:HB2	2.01	0.42
1:MH:132:GLY:HA2	1:MH:162:ARG:HB3	2.02	0.42
1:MH:242:PHE:HB2	1:MH:354:CYS:SG	2.60	0.42
1:MH:252:LYS:HZ2	1:MH:252:LYS:HG2	1.66	0.42
2:MI:390:ARG:HB2	2:MI:390:ARG:NH1	2.34	0.42
2:MK:21:TRP:CZ2	2:MK:65:CYS:HB3	2.54	0.42
2:MK:414:GLU:HG2	2:MK:417:GLU:HG2	2.01	0.42
1:MN:77:ARG:HG3	1:MN:77:ARG:HH11	1.83	0.42
1:N:210:ILE:HG22	1:N:215:LEU:HD23	2.01	0.42
1:N:390:ARG:HA	1:N:390:ARG:CZ	2.48	0.42
2:NA:132:LEU:HD23	2:NA:164:LYS:HE3	2.01	0.42
2:NC:223:SER:OG	2:NC:224:TYR:N	2.52	0.42
2:NC:274:PRO:HD2	2:NC:374:ALA:HA	2.01	0.42
1:NF:167:PHE:CE2	1:NF:233:MET:HG3	2.54	0.42
1:NF:210:ILE:O	1:NF:214:THR:HB	2.20	0.42
1:NF:290:THR:HG21	1:NF:329:GLN:CB	2.50	0.42
2:NG:102:ASN:ND2	2:NG:411:GLU:HG3	2.34	0.42
2:NG:143:GLY:HA3	71:NG:501:GTP:PB	2.59	0.42
2:NG:211:ASP:HA	2:NG:214:ARG:HG2	2.01	0.42
1:NH:256:ASN:CB	1:NH:350:LYS:HE3	2.49	0.42
1:NH:262:ARG:HG2	1:NH:262:ARG:HH11	1.84	0.42
1:NH:383:GLU:HA	1:NH:386:THR:HG22	2.01	0.42
2:NI:234:VAL:HG13	2:NI:376:CYS:SG	2.59	0.42
1:NL:344:TRP:H	1:NL:344:TRP:CD1	2.37	0.42
1:O:183:TYR:OH	1:O:393:ALA:O	2.32	0.42
1:O:207:LEU:HD11	1:O:300:MET:HE2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OA:53:PHE:HB3	2:OA:61:HIS:HB3	2.01	0.42
1:OD:190:HIS:HB2	1:OD:414:ASN:ND2	2.35	0.42
2:OG:52:PHE:CD2	2:OG:243:ARG:HD3	2.55	0.42
1:OH:19:LYS:HB3	1:OH:19:LYS:HE2	1.91	0.42
1:OH:267:MET:C	1:OH:268:MET:HE2	2.44	0.42
1:OJ:186:THR:HG22	1:OJ:411:ALA:HB1	2.02	0.42
1:OJ:308:GLY:HA3	1:OJ:373:CYS:HB3	2.01	0.42
2:OK:132:LEU:CD1	2:OK:164:LYS:HD3	2.49	0.42
1:OL:54:SER:OG	1:OL:55:SER:N	2.50	0.42
2:OM:70:LEU:HA	2:OM:95:GLY:HA3	2.02	0.42
1:P:324:LYS:HG3	2:PA:222:PRO:HD2	2.01	0.42
2:PA:3:GLU:OE1	2:PA:3:GLU:N	2.47	0.42
2:PA:96:LYS:HZ2	59:4a:104:TYR:HD2	1.67	0.42
2:PE:197:HIS:CE1	55:3b:45:LEU:HD11	2.55	0.42
2:PG:1:MET:HE3	2:PG:2:ARG:H	1.84	0.42
2:PG:1:MET:N	2:PG:3:GLU:OE2	2.48	0.42
1:PH:48:ASN:O	1:PH:62:ARG:NH2	2.42	0.42
1:PH:253:LEU:O	1:PH:257:LEU:HB2	2.19	0.42
2:Q:263:PRO:HD2	57:3f:72:GLN:NE2	2.34	0.42
2:Q:331:ALA:O	2:Q:335:ILE:HG12	2.19	0.42
2:Q:434:GLU:CD	57:3f:65:LEU:HB3	2.44	0.42
1:QA:13:GLY:HA2	1:QA:16:ILE:HG22	2.00	0.42
2:QB:268:VAL:HG11	2:QB:378:ILE:CG2	2.49	0.42
1:QC:20:PHE:HA	1:QC:230:ALA:HB1	2.02	0.42
2:QD:352:LYS:HA	1:QE:177:ASP:O	2.19	0.42
2:QD:439:SER:HA	55:3b:63:LEU:HD11	2.01	0.42
1:QE:122:LYS:HZ2	1:RE:291:GLN:HG2	1.84	0.42
1:QE:221:THR:HG22	1:QE:222:PHE:N	2.35	0.42
2:QF:195:LEU:HD22	2:QF:267:PHE:CZ	2.55	0.42
1:QG:49:VAL:HG13	1:QG:50:TYR:HD1	1.83	0.42
1:QG:65:LEU:HG	1:QG:90:PHE:CD2	2.54	0.42
1:QG:66:MET:SD	1:QG:151:LEU:HD22	2.60	0.42
2:QH:322:ASP:OD1	2:QH:373:ARG:HG3	2.19	0.42
1:QI:101:TRP:HB3	1:QI:398:TYR:HE2	1.84	0.42
2:QJ:155:GLU:O	2:QJ:159:VAL:HG23	2.20	0.42
2:QJ:298:PRO:HD3	59:4b:50:LEU:HG	2.00	0.42
2:QL:21:TRP:HZ2	2:QL:65:CYS:HB3	1.80	0.42
1:RC:53:GLU:HB3	1:RC:59:TYR:HE2	1.83	0.42
2:RD:231:ILE:HA	2:RD:234:VAL:HG12	2.01	0.42
1:RE:21:TRP:CZ3	1:RE:50:TYR:HB3	2.55	0.42
2:RF:152:LEU:O	2:RF:156:ARG:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:RF:251:ASP:H	2:RF:254:GLU:CB	2.32	0.42
1:RG:226:ASN:HA	1:RG:229:VAL:HG12	2.02	0.42
1:RI:113:ILE:HG13	1:RI:117:LEU:HG	2.00	0.42
1:RK:65:LEU:HD22	1:RK:76:VAL:HG11	2.01	0.42
1:RK:88:ASP:N	1:RK:88:ASP:OD1	2.49	0.42
1:RK:259:PRO:HA	2:RL:404:PHE:CD1	2.54	0.42
1:RK:344:TRP:CD1	1:RK:344:TRP:H	2.37	0.42
2:RL:31:GLN:HE22	2:RL:37:PRO:HG3	1.84	0.42
2:RL:421:ALA:O	2:RL:425:LEU:HD23	2.19	0.42
2:SA:5:ILE:HD12	2:SA:132:LEU:HD11	2.00	0.42
2:SA:248:LEU:HG	1:SB:222:PHE:HE2	1.84	0.42
1:SB:271:ALA:HB3	1:SB:365:VAL:HG12	2.01	0.42
1:SF:173:PRO:HG2	1:SF:380:ARG:HD2	2.01	0.42
1:SF:325:GLU:OE2	2:SG:221:ARG:HD3	2.19	0.42
1:SF:377:MET:HG2	1:SF:380:ARG:NH2	2.34	0.42
2:SG:352:LYS:HA	1:SH:177:ASP:O	2.20	0.42
2:SG:392:ASP:OD2	2:SG:422:ARG:NH1	2.50	0.42
1:SH:206:ALA:O	1:SH:210:ILE:HG12	2.19	0.42
1:T:68:LEU:HD13	1:T:143:THR:HG23	2.00	0.42
2:TA:167:LEU:HD13	2:TA:200:VAL:HB	2.01	0.42
2:TA:282:TYR:HB3	21:0w:393:ARG:HH22	1.84	0.42
1:TB:2:ARG:N	1:TB:131:GLN:HB2	2.33	0.42
1:TB:198:GLU:HB2	1:TB:266:PHE:HE2	1.83	0.42
1:TB:333:VAL:HB	61:3w:184:ALA:HB2	2.01	0.42
1:TD:151:LEU:O	1:TD:155:LEU:HD13	2.20	0.42
1:TD:232:VAL:HG11	1:TD:268:MET:HG2	2.01	0.42
1:TF:109:GLY:O	1:TF:113:ILE:HB	2.18	0.42
1:TH:247:ASN:HD21	2:TI:71:GLU:CD	2.27	0.42
1:TH:323:THR:HG21	2:TI:224:TYR:CZ	2.54	0.42
1:TH:391:ARG:C	1:TH:392:LYS:HG2	2.43	0.42
2:TI:265:ILE:HG23	2:TI:432:TYR:CZ	2.54	0.42
1:TJ:328:GLU:OE1	1:TJ:329:GLN:NE2	2.53	0.42
2:TK:1:MET:N	2:TK:3:GLU:OE2	2.44	0.42
1:TL:291:GLN:O	1:TL:295:ASP:HB2	2.20	0.42
1:U:139:LEU:HD21	1:U:192:LEU:HD11	2.01	0.42
1:U:313:ALA:HB3	1:U:349:ILE:HD13	2.02	0.42
2:UA:231:ILE:O	2:UA:235:VAL:HG23	2.19	0.42
2:UA:274:PRO:HG2	2:UA:371:VAL:HG21	2.01	0.42
1:UB:67:ASP:OD1	1:UB:68:LEU:N	2.53	0.42
1:UH:91:ILE:HG22	1:UH:112:LEU:HD21	2.01	0.42
1:UJ:20:PHE:HA	1:UJ:230:ALA:HB1	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UJ:268:MET:HE1	1:UJ:368:ILE:CD1	2.50	0.42
2:UK:395:PHE:HE2	2:UK:422:ARG:HB2	1.84	0.42
1:V:317:PHE:CD2	1:V:365:VAL:HB	2.54	0.42
2:VA:166:LYS:HB2	2:VA:199:ASP:H	1.85	0.42
1:VD:253:LEU:HD21	1:VD:316:LEU:HD11	2.00	0.42
1:VF:186:THR:HG23	1:VF:415:MET:HG3	2.00	0.42
1:VH:316:LEU:HB2	1:VH:366:THR:OG1	2.18	0.42
1:VH:398:TYR:HB3	1:VH:403:MET:CG	2.49	0.42
1:VJ:282:ARG:HH22	1:VJ:292:GLN:HB2	1.83	0.42
2:VK:285:GLN:NE2	2:VK:287:SER:HB3	2.35	0.42
1:VL:113:ILE:HG13	1:VL:117:LEU:HD23	2.01	0.42
1:W:139:LEU:HD12	1:W:170:ILE:HG13	2.01	0.42
2:WA:271:SER:CB	2:WA:301:MET:HA	2.49	0.42
2:WA:271:SER:N	2:WA:377:MET:HB3	2.33	0.42
2:WA:352:LYS:HD2	1:WB:178:THR:HA	2.02	0.42
1:WB:2:ARG:HH22	2:WC:73:THR:HG23	1.84	0.42
1:WF:403:MET:HE3	1:WF:408:PHE:CE1	2.54	0.42
2:WG:298:PRO:HB3	2:WG:307:PRO:HD2	2.02	0.42
1:WH:232:VAL:HG11	1:WH:268:MET:HG2	2.00	0.42
2:WM:324:VAL:HG12	2:WM:326:LYS:HG2	2.01	0.42
3:XB:62:PRO:HD3	3:XB:69:LEU:HG	2.01	0.42
3:XC:13:ILE:HD13	3:XC:167:PHE:HE1	1.85	0.42
3:XE:170:ARG:NH2	3:XE:176:GLU:OE2	2.49	0.42
4:XM:219:LEU:HD21	4:XM:247:LEU:HD22	2.01	0.42
4:XO:200:ILE:HG13	4:XO:239:TYR:CD1	2.55	0.42
4:XO:201:ILE:HA	4:XO:204:LYS:HE3	2.01	0.42
4:XO:278:ASN:O	4:XO:282:GLN:HG2	2.19	0.42
5:XP:244:ALA:O	5:XP:247:PRO:HD2	2.20	0.42
8:0F:150:GLU:O	8:0F:154:ARG:HG2	2.19	0.42
9:0L:43:ILE:HD11	9:0L:78:SER:HB3	2.00	0.42
9:0L:530:CYS:HA	9:0L:546:CYS:HA	2.01	0.42
9:0M:138:ASP:HB3	9:0M:141:THR:HB	2.02	0.42
9:0O:278:GLN:N	9:0O:278:GLN:OE1	2.52	0.42
12:0W:225:CYS:O	12:0W:229:LEU:HD23	2.18	0.42
16:0l:460:ARG:O	16:0l:463:THR:HG22	2.20	0.42
16:0k:303:VAL:HA	16:0k:306:ARG:NE	2.34	0.42
20:0u:112:VAL:CG2	20:0u:143:LEU:HD22	2.49	0.42
24:1K:534:LYS:O	24:1K:538:MET:HG2	2.20	0.42
25:1O:267:ALA:O	25:1O:271:GLU:HG3	2.19	0.42
26:1Q:89:PHE:CD2	26:1Q:153:LEU:HD12	2.54	0.42
26:1Q:354:TYR:O	26:1Q:358:ARG:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:1S:33:ARG:HG2	27:1S:34:VAL:H	1.85	0.42
27:1S:336:LEU:HD11	27:1S:382:VAL:HG13	2.02	0.42
27:1T:745:ARG:NH1	27:1T:795:LEU:HA	2.34	0.42
28:1X:235:ASP:HB2	28:1X:240:PHE:CE2	2.54	0.42
28:1Y:54:ARG:NH2	28:1Y:56:ARG:HH12	2.17	0.42
28:1b:25:CYS:SG	28:1b:27:LYS:NZ	2.93	0.42
29:1j:31:LEU:HD23	29:1j:77:THR:HG21	2.01	0.42
30:1o:13:ASP:OD2	30:1o:16:LEU:HD13	2.19	0.42
32:2C:226:CYS:SG	32:2C:228:TYR:HB2	2.59	0.42
34:2L:86:VAL:O	34:2L:90:LEU:HD23	2.19	0.42
37:2S:168:ARG:HA	37:2S:202:ASN:OD1	2.19	0.42
38:2V:176:ARG:HD3	38:2V:182:ILE:HG22	2.00	0.42
40:2Z:115:LEU:HD11	40:2Z:250:ALA:HA	2.01	0.42
41:2e:149:PHE:CE2	41:2e:150:LEU:HD22	2.55	0.42
41:2h:302:GLU:O	41:2h:306:MET:HG3	2.20	0.42
41:2l:347:GLU:HG2	41:2l:348:MET:HE2	2.01	0.42
42:2r:158:LEU:HD23	42:2r:158:LEU:HA	1.92	0.42
42:2r:183:VAL:HA	42:2r:186:VAL:HG22	2.02	0.42
44:2w:194:ARG:HG3	44:2w:300:ILE:O	2.19	0.42
45:2y:289:MET:SD	45:2y:294:ARG:HB3	2.59	0.42
46:3B:215:VAL:HG23	46:3B:216:TRP:CD1	2.54	0.42
47:3D:135:HIS:HD2	47:3D:137:PRO:HD3	1.85	0.42
47:3D:360:ARG:HD2	47:3D:360:ARG:HA	1.81	0.42
48:3M:433:ARG:O	48:3M:437:MET:HG2	2.20	0.42
49:3P:344:ARG:HG3	49:3P:344:ARG:NH1	2.34	0.42
49:3P:476:TYR:OH	49:3P:497:TRP:NE1	2.52	0.42
49:3P:489:PHE:O	49:3P:492:LEU:HB3	2.19	0.42
49:3Q:539:ARG:HB3	49:3Q:557:PHE:CE1	2.54	0.42
55:3b:157:LEU:O	55:3b:161:VAL:HG23	2.20	0.42
57:3i:30:ARG:O	57:3i:34:LEU:HD23	2.20	0.42
62:4B:158:SER:HA	62:4B:165:THR:HG23	2.02	0.42
64:5C:237:GLN:OE1	65:5H:237:ARG:NH2	2.53	0.42
65:5H:153:ARG:HA	65:5H:153:ARG:HD2	1.94	0.42
65:5H:240:GLN:OE1	65:5H:244:GLN:NE2	2.52	0.42
66:5K:144:PHE:CE2	66:5K:175:ILE:HD11	2.55	0.42
66:5L:229:LYS:HB3	66:5L:256:VAL:HG11	2.02	0.42
67:5O:72:LYS:NZ	67:5O:110:VAL:HG23	2.34	0.42
67:5O:91:PHE:HD2	67:5O:95:ILE:HG22	1.84	0.42
1:AB:144:GLY:N	69:AB:500:GDP:O2B	2.35	0.42
1:AB:237:THR:HG22	1:AB:250:LEU:HD11	2.01	0.42
2:AE:174:SER:HB3	2:AE:177:VAL:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AF:137:HIS:NE2	1:AF:166:THR:OG1	2.52	0.42
1:AF:350:LYS:HA	2:AG:179:THR:O	2.20	0.42
2:AG:194:LEU:O	2:AG:266:HIS:NE2	2.42	0.42
2:AG:205:ASP:OD2	2:AG:303:THR:HA	2.20	0.42
2:AI:96:LYS:HD2	2:AI:96:LYS:O	2.20	0.42
2:AK:237:SER:HA	2:AK:320:ARG:HE	1.84	0.42
1:AL:174:ARG:HD3	1:AL:380:ARG:NH1	2.32	0.42
1:AL:174:ARG:NE	1:AL:205:GLU:OE1	2.52	0.42
2:AM:90:GLU:CD	2:BM:280:LYS:HE3	2.44	0.42
1:AN:318:ARG:HB3	1:AN:357:PRO:HA	2.02	0.42
1:B:36:TYR:CD1	1:B:44:LEU:HD21	2.55	0.42
1:B:346:PRO:O	2:BA:394:LYS:NZ	2.46	0.42
2:BA:90:GLU:HG2	2:BA:91:GLN:HG3	2.02	0.42
2:BE:164:LYS:HE2	2:BE:164:LYS:HB2	1.66	0.42
2:BE:220:GLU:HB2	16:0k:286:ASP:OD2	2.19	0.42
1:BF:344:TRP:H	1:BF:344:TRP:CD1	2.36	0.42
1:BH:232:VAL:HG11	1:BH:268:MET:HG2	2.01	0.42
2:BK:220:GLU:C	2:BK:222:PRO:HD3	2.45	0.42
2:BM:115:VAL:O	2:BM:119:LEU:HD23	2.20	0.42
2:BM:209:ILE:HG21	2:BM:227:VAL:HG13	2.01	0.42
1:CA:2:ARG:HE	1:CA:2:ARG:HB2	1.65	0.42
1:CA:100:ASN:ND2	1:CA:401:GLU:OE2	2.52	0.42
1:CC:67:ASP:OD1	1:CC:143:THR:HG21	2.19	0.42
1:CC:293:MET:CG	1:CC:367:PHE:HB2	2.50	0.42
1:CE:20:PHE:HA	1:CE:230:ALA:HB1	2.01	0.42
2:CF:236:SER:HB2	2:CF:243:ARG:HH22	1.85	0.42
1:CG:11:GLN:HA	1:CG:72:THR:HG21	2.01	0.42
1:CG:345:ILE:HB	1:CG:348:ASN:ND2	2.34	0.42
1:CI:164:MET:HB3	1:CI:197:ASP:H	1.83	0.42
2:CJ:221:ARG:HG3	2:CJ:221:ARG:NH1	2.34	0.42
2:CL:209:ILE:HD13	2:CL:302:LEU:HD11	2.02	0.42
2:CL:248:LEU:HB2	2:CL:355:ILE:H	1.84	0.42
2:CL:318:MET:O	2:CL:375:VAL:HA	2.20	0.42
1:CM:379:ARG:HE	1:CM:419:VAL:CG1	2.33	0.42
2:D:239:THR:O	2:D:243:ARG:HD3	2.19	0.42
2:D:325:PRO:HB2	1:DA:208:TYR:OH	2.19	0.42
1:DC:103:LYS:O	1:DC:108:GLU:HB3	2.19	0.42
1:DC:239:CYS:HB3	1:DC:247:ASN:HB2	2.00	0.42
2:DD:97:GLU:OE2	2:DD:105:ARG:NH2	2.52	0.42
2:DF:90:GLU:OE1	2:EE:280:LYS:HG3	2.19	0.42
2:DF:214:ARG:HA	2:DF:219:ILE:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DH:172:TYR:HH	2:DH:267:PHE:HE2	1.66	0.42
1:DI:67:ASP:OD1	1:DI:68:LEU:N	2.52	0.42
1:DI:377:MET:HB2	1:DI:380:ARG:NH2	2.34	0.42
2:DJ:265:ILE:HG23	2:DJ:432:TYR:CE2	2.54	0.42
1:DK:20:PHE:HA	1:DK:230:ALA:HB1	2.02	0.42
1:DK:304:ASP:OD2	1:DK:306:ARG:HB2	2.20	0.42
2:DL:9:ILE:HG22	2:DL:146:GLY:HA2	2.02	0.42
2:DL:260:VAL:HG12	2:DL:266:HIS:HA	2.00	0.42
1:DM:8:GLN:HG2	1:DM:17:GLY:HA3	2.00	0.42
1:E:225:LEU:O	1:E:229:VAL:HG23	2.19	0.42
1:E:286:VAL:HG11	1:E:325:GLU:HB3	2.00	0.42
1:E:323:THR:HA	1:E:326:VAL:HG22	2.01	0.42
2:EC:79:ARG:HG2	2:EC:92:LEU:HD21	2.02	0.42
2:EC:189:LEU:HD11	2:EC:418:PHE:CD1	2.55	0.42
1:ED:130:LEU:HD21	1:ED:133:PHE:CE1	2.54	0.42
2:EI:188:VAL:HG21	2:EI:395:PHE:HB2	2.00	0.42
1:EJ:293:MET:HE3	1:EJ:367:PHE:HD2	1.84	0.42
1:EJ:344:TRP:HZ3	2:EK:403:ALA:HB2	1.84	0.42
2:EK:166:LYS:O	2:EK:199:ASP:HB3	2.19	0.42
2:EK:265:ILE:HD12	2:EK:432:TYR:CD1	2.55	0.42
1:EL:326:VAL:HG21	1:EL:353:ILE:HD11	2.02	0.42
1:F:133:PHE:HB2	1:F:164:MET:SD	2.59	0.42
1:F:252:LYS:HG3	2:FA:100:ALA:HA	2.01	0.42
1:F:311:LEU:N	1:F:370:ASN:O	2.52	0.42
2:FA:241:SER:HB2	2:FA:250:VAL:H	1.85	0.42
1:FB:234:SER:O	1:FB:241:ARG:NH2	2.50	0.42
1:FB:293:MET:HE1	1:FB:330:MET:HE1	2.01	0.42
1:FB:377:MET:HE3	1:FB:377:MET:HB2	1.82	0.42
2:FC:286:LEU:O	2:FC:373:ARG:NH1	2.50	0.42
1:FD:61:PRO:HD3	1:FD:84:LEU:HG	2.01	0.42
1:FD:210:ILE:HD12	1:FD:300:MET:HB3	2.02	0.42
1:FD:282:ARG:NH1	1:FD:292:GLN:OE1	2.50	0.42
2:FE:60:LYS:HE3	2:FE:60:LYS:HB2	1.74	0.42
1:FH:141:GLY:HA3	69:FH:500:GDP:O3A	2.19	0.42
1:FH:213:ARG:HH12	1:FH:297:LYS:HD2	1.85	0.42
1:FH:286:VAL:HG11	1:FH:325:GLU:HB3	2.02	0.42
2:FI:178:SER:HB2	2:FI:183:GLU:OE1	2.20	0.42
1:FJ:178:THR:HB	1:FJ:181:GLU:HG3	2.01	0.42
2:FK:115:VAL:HG23	2:FK:153:LEU:HD23	2.01	0.42
2:FK:274:PRO:HD3	2:FK:374:ALA:HA	2.02	0.42
2:GA:75:VAL:HG21	2:GA:94:SER:CB	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GF:4:ILE:HD11	1:GF:240:LEU:HD13	2.02	0.42
2:GI:352:LYS:HD2	1:GJ:177:ASP:O	2.20	0.42
1:GJ:51:PHE:HE2	1:GJ:84:LEU:HD21	1.83	0.42
1:GJ:323:THR:HG21	2:GK:224:TYR:CZ	2.54	0.42
2:GK:295:VAL:HG21	2:GK:375:VAL:HG13	2.01	0.42
1:GL:297:LYS:HB2	1:GL:297:LYS:NZ	2.35	0.42
2:HA:31:GLN:OE1	2:HA:37:PRO:HD3	2.20	0.42
2:HA:265:ILE:HG21	2:HA:313:MET:HE1	2.01	0.42
2:HA:320:ARG:HG2	2:HA:358:GLN:O	2.18	0.42
2:HA:387:VAL:HA	2:HA:390:ARG:HG2	2.02	0.42
2:HA:426:ALA:O	2:HA:430:LYS:HG3	2.20	0.42
1:HB:28:HIS:HA	1:HB:43:GLN:HB3	2.01	0.42
1:HB:166:THR:O	1:HB:199:SER:HB2	2.19	0.42
1:HB:198:GLU:HB2	1:HB:266:PHE:CE2	2.53	0.42
1:HD:46:ARG:HH21	2:HE:73:THR:HA	1.85	0.42
1:HD:232:VAL:HG11	1:HD:268:MET:HE2	2.00	0.42
1:HD:316:LEU:HB2	1:HD:366:THR:OG1	2.18	0.42
2:HE:102:ASN:HB3	2:HE:105:ARG:HB3	2.01	0.42
2:HE:152:LEU:O	2:HE:156:ARG:HG2	2.20	0.42
2:HE:155:GLU:O	2:HE:159:VAL:HG23	2.20	0.42
1:HF:19:LYS:HG3	1:HF:226:ASN:CB	2.50	0.42
1:HF:347:ASN:ND2	2:HG:178:SER:HB2	2.34	0.42
1:HJ:403:MET:HE2	1:HJ:407:GLU:HG2	2.02	0.42
2:HK:319:TYR:CE1	2:HK:328:VAL:HG22	2.54	0.42
2:HM:88:ASN:HB2	2:HM:91:GLN:NE2	2.34	0.42
1:I:292:GLN:HG3	1:I:298:ASN:ND2	2.35	0.42
2:IA:118:ALA:O	2:IA:122:ILE:HG12	2.19	0.42
1:IB:44:LEU:O	20:0t:5:ALA:HA	2.20	0.42
2:IC:177:VAL:N	2:IC:207:GLU:OE2	2.52	0.42
2:IC:203:MET:SD	2:IC:384:ILE:HD11	2.60	0.42
2:IG:116:ASP:OD1	2:IG:116:ASP:N	2.47	0.42
1:IH:262:ARG:HG2	1:IH:262:ARG:HH11	1.84	0.42
1:IJ:386:THR:O	1:IJ:390:ARG:HG3	2.19	0.42
2:IM:89:PRO:HD3	1:JM:281:TYR:CE2	2.55	0.42
2:IM:175:PRO:HB3	2:IM:390:ARG:CD	2.50	0.42
1:JA:36:TYR:CZ	1:JA:44:LEU:HG	2.55	0.42
2:JB:254:GLU:OE2	1:JC:99:ASN:HB2	2.19	0.42
1:JC:78:ALA:HA	17:0m:12:ARG:NH1	2.35	0.42
2:JD:308:ARG:HD3	2:JD:308:ARG:H	1.85	0.42
2:JF:139:HIS:O	2:JF:170:THR:HA	2.19	0.42
2:JF:240:ALA:O	2:JF:356:ASN:ND2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JG:62:ARG:HH12	1:JG:127:CYS:HA	1.84	0.42
1:JG:346:PRO:HB2	2:JH:394:LYS:NZ	2.34	0.42
2:JJ:80:THR:O	2:JJ:84:ARG:NH2	2.52	0.42
1:JK:86:ARG:HD2	1:JK:88:ASP:OD1	2.20	0.42
1:JK:380:ARG:O	1:JK:384:GLN:HG3	2.18	0.42
1:JM:229:VAL:HG22	1:JM:300:MET:HE1	2.02	0.42
2:K:359:PRO:HD2	49:3P:544:ARG:NH2	2.34	0.42
2:KB:102:ASN:HB3	2:KB:105:ARG:HB3	2.02	0.42
1:KC:83:GLN:O	1:LC:281:TYR:OH	2.26	0.42
1:KC:167:PHE:CD2	1:KC:233:MET:HE3	2.54	0.42
1:KC:170:ILE:N	1:KC:202:ILE:O	2.51	0.42
1:KC:289:LEU:O	1:KC:293:MET:HG3	2.20	0.42
2:KD:263:PRO:HG3	1:KE:396:HIS:CG	2.55	0.42
2:KF:425:LEU:O	2:KF:429:GLU:OE1	2.37	0.42
1:KG:8:GLN:HE21	1:KG:65:LEU:HG	1.85	0.42
2:KH:328:VAL:HG12	2:KH:332:ILE:HD11	2.01	0.42
1:KK:377:MET:HA	1:KK:380:ARG:NH1	2.35	0.42
2:L:70:LEU:HD23	2:L:145:THR:HG23	2.00	0.42
1:LA:279:GLN:HG3	23:1E:385:VAL:HG21	2.00	0.42
2:LB:68:LEU:HD13	2:LB:93:VAL:HB	2.02	0.42
1:LC:267:MET:N	1:LC:369:GLY:O	2.29	0.42
1:LE:198:GLU:HB2	1:LE:266:PHE:CE2	2.54	0.42
1:LE:234:SER:O	1:LE:241:ARG:NH2	2.53	0.42
1:LE:405:GLU:OE2	13:0Y:132:PRO:HB3	2.20	0.42
2:LF:58:ALA:HB1	23:1A:118:GLN:CD	2.45	0.42
2:LH:143:GLY:HA3	71:LH:501:GTP:O2B	2.20	0.42
1:LI:270:PHE:HD1	1:LI:366:THR:HG22	1.84	0.42
2:LJ:260:VAL:HB	1:LK:397:TRP:HZ2	1.85	0.42
1:LK:258:VAL:HG22	1:LK:266:PHE:HZ	1.83	0.42
2:LL:245:ASP:N	2:LL:245:ASP:OD2	2.53	0.42
2:LL:298:PRO:HD3	2:LL:308:ARG:HD3	2.00	0.42
2:LN:339:ARG:HD3	2:LN:339:ARG:H	1.84	0.42
1:M:306:ARG:HB2	6:0:117:TYR:CE2	2.55	0.42
1:M:343:GLU:O	1:M:346:PRO:HD3	2.20	0.42
2:MA:127:ASP:OD1	2:MA:128:ASN:N	2.52	0.42
1:MB:309:ARG:H	1:MB:372:THR:HG1	1.67	0.42
2:MC:273:ALA:HB3	2:MC:295:VAL:HG23	2.01	0.42
2:ME:240:ALA:HB2	2:ME:243:ARG:HH21	1.85	0.42
2:ME:316:CYS:HB3	2:ME:378:ILE:HG22	2.00	0.42
2:ME:333:ALA:O	2:ME:337:THR:HG23	2.20	0.42
1:MH:309:ARG:NH2	1:MH:342:ILE:HA	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MJ:356:ILE:HD13	44:2w:14:VAL:O	2.20	0.42
1:ML:21:TRP:CZ3	1:ML:61:PRO:HB3	2.54	0.42
1:ML:41:ASP:O	1:ML:45:GLU:HG3	2.20	0.42
1:MN:43:GLN:HA	1:MN:242:PHE:HE1	1.85	0.42
1:N:200:MET:HB3	1:N:200:MET:HE3	1.97	0.42
2:NA:108:TYR:HE2	2:NA:413:MET:HB3	1.85	0.42
2:NA:324:VAL:HG12	2:NA:326:LYS:HG2	2.01	0.42
2:NC:402:ARG:HB3	2:NC:405:VAL:HG11	2.01	0.42
1:NF:141:GLY:O	1:NF:145:SER:OG	2.32	0.42
2:NG:27:GLU:OE1	2:NG:243:ARG:NH2	2.52	0.42
2:NG:298:PRO:HB3	2:NG:308:ARG:HH22	1.85	0.42
1:NH:263:LEU:HD21	1:NH:421:GLU:HG3	2.02	0.42
2:NI:195:LEU:HD11	2:NI:264:ARG:HE	1.84	0.42
2:NK:33:ASP:HA	2:NK:85:GLN:HB2	2.02	0.42
2:NK:241:SER:HA	2:NK:356:ASN:HD22	1.85	0.42
2:NM:102:ASN:ND2	2:NM:407:TRP:O	2.41	0.42
2:NM:215:ARG:NH2	2:NM:300:GLY:HA2	2.32	0.42
1:O:301:GLN:C	1:O:303:ALA:H	2.27	0.42
2:OA:207:GLU:HA	2:OA:210:TYR:HB2	2.01	0.42
2:OA:268:VAL:HG13	2:OA:379:ALA:C	2.45	0.42
2:OA:323:VAL:HG23	2:OA:355:ILE:HG23	2.01	0.42
1:OB:132:GLY:HA2	1:OB:162:ARG:HB3	2.01	0.42
2:OC:253:THR:HA	2:OC:256:GLN:HB3	2.02	0.42
1:OD:55:SER:HB3	1:PD:284:LEU:H	1.84	0.42
2:OE:60:LYS:HD2	2:PE:282:TYR:CD2	2.55	0.42
2:OE:212:LEU:HD21	2:OE:275:VAL:HG11	2.01	0.42
2:OE:263:PRO:O	2:OE:266:HIS:ND1	2.49	0.42
1:OF:26:ASP:OD1	1:OF:359:LYS:HD3	2.20	0.42
2:OG:367:ASP:OD1	2:OG:367:ASP:N	2.52	0.42
2:OI:384:ILE:O	2:OI:387:VAL:HG12	2.19	0.42
2:OI:401:LYS:HE3	2:OI:401:LYS:HB3	1.94	0.42
1:P:22:GLU:OE2	1:P:80:PRO:HG2	2.19	0.42
2:PA:395:PHE:CD2	2:PA:422:ARG:HD3	2.54	0.42
1:PD:20:PHE:O	1:PD:24:ILE:HG12	2.20	0.42
1:PF:28:HIS:HA	1:PF:43:GLN:HG2	2.02	0.42
1:PF:172:SER:O	1:PF:176:SER:N	2.52	0.42
1:PF:364:SER:OG	1:PF:365:VAL:N	2.53	0.42
2:PG:326:LYS:HB2	2:PG:326:LYS:HE2	1.86	0.42
2:PI:323:VAL:HG23	2:PI:355:ILE:HG23	2.02	0.42
1:PJ:26:ASP:OD1	1:PJ:359:LYS:HD3	2.20	0.42
1:QA:218:THR:HG23	1:QA:219:THR:HG23	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QA:392:LYS:HD3	1:QA:395:LEU:CD2	2.50	0.42
2:QB:151:ALA:O	2:QB:155:GLU:OE1	2.37	0.42
1:QC:11:GLN:HA	1:QC:72:THR:HG21	2.00	0.42
1:QC:121:ARG:O	1:QC:125:GLU:HG3	2.20	0.42
1:QE:375:GLN:HB3	1:QE:422:TYR:HB3	2.02	0.42
2:QF:199:ASP:HB3	2:QF:256:GLN:NE2	2.33	0.42
2:QF:312:TYR:HB2	2:QF:343:PHE:HD1	1.85	0.42
1:QG:3:GLU:HA	1:QG:49:VAL:HA	2.02	0.42
2:QJ:254:GLU:O	2:QJ:258:ASN:ND2	2.51	0.42
1:QK:19:LYS:HE2	1:QK:227:HIS:CD2	2.54	0.42
1:QK:105:HIS:ND1	1:QK:146:GLY:O	2.48	0.42
2:QL:185:TYR:CE2	2:QL:404:PHE:HB2	2.54	0.42
2:R:191:THR:HG21	2:R:425:LEU:HD13	2.02	0.42
2:R:205:ASP:OD1	2:R:303:THR:HA	2.20	0.42
2:RD:326:LYS:NZ	1:RE:208:TYR:HD1	2.17	0.42
2:RH:3:GLU:OE2	2:RH:130:THR:N	2.52	0.42
2:RH:271:SER:HA	2:RH:301:MET:HA	2.02	0.42
2:RH:388:PHE:CD2	2:RH:425:LEU:HD11	2.55	0.42
1:RI:178:THR:HG1	1:RI:181:GLU:HG3	1.85	0.42
1:RI:267:MET:HG3	1:RI:299:MET:SD	2.60	0.42
2:RJ:2:ARG:HG3	2:RJ:2:ARG:NH1	2.34	0.42
2:RJ:62:VAL:HG21	2:SI:283:HIS:O	2.20	0.42
2:RJ:279:GLU:OE1	22:0z:257:ASP:HB2	2.20	0.42
1:RK:21:TRP:CZ3	1:RK:50:TYR:HB3	2.54	0.42
1:RK:103:LYS:HZ3	1:RK:401:GLU:CD	2.28	0.42
2:RL:189:LEU:HD23	2:RL:413:MET:HE1	2.02	0.42
2:RL:227:VAL:O	2:RL:231:ILE:HG12	2.20	0.42
2:SA:7:ILE:O	2:SA:137:VAL:HA	2.19	0.42
2:SA:70:LEU:HD22	2:SA:110:ILE:HG22	2.00	0.42
2:SA:81:GLY:O	2:SA:84:ARG:HG3	2.19	0.42
1:SD:274:THR:OG1	1:SD:282:ARG:NH1	2.44	0.42
2:SE:296:PHE:CZ	2:SE:377:MET:HE1	2.54	0.42
2:SE:324:VAL:HG21	2:SE:326:LYS:HE3	2.02	0.42
1:SF:282:ARG:NH2	1:SF:292:GLN:OE1	2.52	0.42
1:SJ:32:PRO:HG3	1:SJ:81:TYR:CD2	2.54	0.42
2:SK:431:ASP:OD2	57:3i:151:LEU:HD11	2.20	0.42
1:TB:252:LYS:HB2	1:TB:252:LYS:HE3	1.83	0.42
2:TC:143:GLY:C	2:TC:186:ASN:HD22	2.27	0.42
1:TD:322:SER:HB2	2:TE:221:ARG:HB3	2.02	0.42
1:TD:364:SER:OG	1:TD:365:VAL:N	2.52	0.42
1:TF:175:VAL:O	1:TF:175:VAL:HG12	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TF:203:ASP:HB3	1:TF:302:ALA:H	1.85	0.42
2:TI:434:GLU:HG3	57:3h:186:MET:HE3	2.02	0.42
2:TK:395:PHE:CD1	2:TK:422:ARG:HD3	2.54	0.42
1:TL:141:GLY:O	1:TL:145:SER:OG	2.34	0.42
1:TL:248:SER:OG	1:TL:249:ASP:N	2.52	0.42
1:U:255:VAL:HG13	1:U:256:ASN:OD1	2.20	0.42
1:U:329:GLN:O	1:U:333:VAL:HG23	2.19	0.42
2:UA:22:GLU:O	2:UA:26:LEU:HD23	2.19	0.42
2:UA:240:ALA:O	2:UA:356:ASN:ND2	2.53	0.42
1:UB:249:ASP:O	1:UB:253:LEU:HG	2.20	0.42
2:UC:11:GLN:HG3	2:UC:74:VAL:HG11	2.01	0.42
2:UC:316:CYS:HB3	2:UC:378:ILE:HG22	2.02	0.42
1:UD:404:ASP:OD1	1:UD:407:GLU:HB2	2.20	0.42
1:UF:236:VAL:HG13	1:UF:237:THR:HG23	2.02	0.42
2:UG:203:MET:HG3	2:UG:269:LEU:HD23	2.01	0.42
2:UG:254:GLU:OE1	1:UH:99:ASN:HB2	2.19	0.42
1:UH:45:GLU:CD	1:UH:46:ARG:HE	2.26	0.42
2:UI:371:VAL:HG12	8:0J:361:ARG:HH21	1.84	0.42
2:UI:406:HIS:HA	2:UI:409:VAL:HG22	2.02	0.42
2:UK:319:TYR:HB3	2:UK:323:VAL:HG21	2.02	0.42
2:UK:319:TYR:HB2	2:UK:355:ILE:HG12	2.01	0.42
1:V:304:ASP:HB3	1:V:307:HIS:ND1	2.34	0.42
1:VB:20:PHE:HZ	1:VB:50:TYR:HE1	1.67	0.42
1:VB:304:ASP:HB3	1:VB:307:HIS:CE1	2.55	0.42
1:VD:131:GLN:NE2	1:VD:163:ILE:HD13	2.35	0.42
1:VD:198:GLU:HB2	1:VD:266:PHE:CE1	2.54	0.42
2:VE:75:VAL:HG21	2:VE:94:SER:HB2	2.01	0.42
1:VJ:2:ARG:HD2	1:VJ:240:LEU:HD23	2.01	0.42
1:VJ:207:LEU:HD21	1:VJ:300:MET:HE3	2.01	0.42
1:VJ:268:MET:HA	1:VJ:367:PHE:O	2.20	0.42
2:VK:328:VAL:O	2:VK:332:ILE:HG12	2.19	0.42
1:W:68:LEU:HB3	1:W:95:SER:O	2.19	0.42
1:WB:164:MET:H	1:WB:197:ASP:HB2	1.83	0.42
1:WB:325:GLU:OE2	2:WC:221:ARG:HG3	2.19	0.42
1:WJ:84:LEU:HD12	1:WJ:84:LEU:HA	1.90	0.42
1:WJ:139:LEU:HD21	1:WJ:192:LEU:HD11	2.00	0.42
1:WL:330:MET:HE2	1:WL:349:ILE:CG2	2.50	0.42
3:X:102:ARG:HH21	3:X:118:ILE:HD11	1.83	0.42
3:XE:86:TYR:O	3:XE:159:ASN:HB2	2.19	0.42
4:XM:245:PRO:HG3	4:XM:299:MET:HE2	2.01	0.42
5:XP:84:HIS:CE1	32:2C:29:GLU:HG3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:XQ:4:TYR:OH	9:0N:215:TYR:OH	2.30	0.42
4:XQ:235:ALA:O	4:XQ:238:PRO:HD2	2.20	0.42
4:XR:118:ILE:HD11	4:XR:211:HIS:ND1	2.35	0.42
4:XR:276:LEU:O	4:XR:280:THR:HG23	2.19	0.42
6:0:53:GLN:NE2	6:0:133:ILE:HD12	2.35	0.42
8:0G:131:MET:CG	8:0H:458:LYS:HG3	2.50	0.42
8:0G:193:ARG:O	8:0G:197:MET:HG3	2.19	0.42
9:0N:535:ASP:OD2	9:0N:540:HIS:HB2	2.19	0.42
11:0U:279:ALA:O	11:0U:283:VAL:HG23	2.20	0.42
13:0Z:97:LEU:HD12	13:0Z:103:ALA:HB2	2.02	0.42
16:0l:295:VAL:O	16:0l:348:VAL:HG12	2.20	0.42
16:0l:904:LEU:HD12	16:0l:970:VAL:HG11	2.01	0.42
16:0k:591:PHE:CD2	16:0k:605:LEU:HD12	2.55	0.42
17:0m:25:ALA:HA	17:0m:28:LYS:HG2	2.01	0.42
21:0w:69:ALA:O	21:0w:73:GLN:OE1	2.37	0.42
24:1H:647:ARG:HH12	24:1H:651:GLU:CB	2.29	0.42
24:1I:661:GLU:O	24:1I:664:GLN:HG3	2.19	0.42
25:1O:258:TYR:HE2	25:1O:261:HIS:HA	1.85	0.42
25:1O:420:TYR:CE1	42:2r:394:GLY:HA3	2.54	0.42
26:1Q:498:VAL:HG12	26:1Q:500:TYR:HE1	1.85	0.42
33:2H:217:LEU:O	33:2H:218:ARG:C	2.61	0.42
34:2L:97:LEU:O	34:2L:103:LYS:NZ	2.51	0.42
37:2S:180:ASN:O	54:3Z:340:VAL:O	2.38	0.42
37:2S:199:ARG:HB3	54:3Z:325:GLN:HB3	2.01	0.42
38:2U:236:PRO:HB3	38:2U:246:TYR:HB3	2.02	0.42
40:2Z:120:LEU:O	40:2Z:124:LYS:HG2	2.20	0.42
41:2h:217:ALA:O	41:2h:221:ARG:HG2	2.20	0.42
41:2l:460:ASP:O	41:2l:463:ARG:HG3	2.19	0.42
41:2n:175:ILE:HD13	41:2n:178:ILE:HD12	2.01	0.42
41:2p:452:VAL:O	41:2p:455:GLU:HG3	2.20	0.42
44:2v:208:ILE:HD12	44:2v:362:ILE:CG2	2.50	0.42
46:3B:326:THR:HG22	46:3B:333:ASP:HB2	2.02	0.42
48:3I:48:MET:O	48:3I:51:LEU:HB3	2.20	0.42
49:3P:514:LEU:HD12	49:3P:528:LEU:HD11	2.01	0.42
57:3f:36:GLU:CD	57:3f:36:GLU:H	2.28	0.42
60:3s:68:LEU:O	60:3s:72:MET:HG2	2.19	0.42
62:4B:340:ARG:HD2	62:4B:340:ARG:HA	1.88	0.42
59:4a:288:ASP:HB2	59:4a:291:ARG:HB2	2.01	0.42
64:5C:150:ARG:HG2	64:5C:150:ARG:NH1	2.34	0.42
65:5H:80:GLU:OE1	65:5H:84:GLN:NE2	2.52	0.42
65:5H:99:LEU:HA	65:5H:102:ILE:HD12	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:5H:156:ILE:O	65:5H:160:ARG:HG2	2.20	0.42
2:AA:259:LEU:HD21	2:AA:378:ILE:HG12	2.02	0.42
2:AE:91:GLN:H	2:AE:121:ARG:NH1	2.17	0.42
2:AE:362:VAL:CG1	54:3Z:359:PRO:HD3	2.49	0.42
1:AF:181:GLU:HB2	1:AF:182:PRO:HD3	2.01	0.42
1:AH:139:LEU:HG	1:AH:168:SER:HB2	2.01	0.42
1:AH:252:LYS:HG3	2:AI:101:ASN:HB2	2.01	0.42
2:AI:240:ALA:O	2:AI:356:ASN:ND2	2.53	0.42
1:AJ:66:MET:HE2	1:AJ:66:MET:HB3	1.76	0.42
1:AJ:113:ILE:HG13	1:AJ:117:LEU:CD2	2.50	0.42
2:AM:211:ASP:O	2:AM:215:ARG:HG2	2.20	0.42
2:AM:213:THR:HG22	2:AM:217:LEU:HD12	2.01	0.42
2:AM:352:LYS:HA	1:AN:177:ASP:C	2.45	0.42
2:AM:430:LYS:O	2:AM:433:GLU:HG3	2.20	0.42
1:AN:105:HIS:HD2	1:AN:106:TYR:CE1	2.38	0.42
1:AN:385:PHE:CE2	1:AN:412:GLU:HB2	2.51	0.42
1:B:324:LYS:NZ	2:BA:222:PRO:HB2	2.33	0.42
2:BC:11:GLN:O	2:BC:15:GLN:HG2	2.19	0.42
2:BC:21:TRP:CZ2	2:BC:65:CYS:HB3	2.55	0.42
2:BC:184:PRO:HG2	2:BC:394:LYS:HE3	2.00	0.42
1:BD:1:MET:HE1	2:BE:96:LYS:HA	2.01	0.42
1:BD:28:HIS:ND1	1:BD:43:GLN:O	2.42	0.42
2:BE:324:VAL:HB	2:BE:327:ASP:CG	2.44	0.42
1:BF:63:ALA:O	1:BF:89:ASN:ND2	2.39	0.42
1:BF:191:GLN:O	1:BF:195:ASN:HB2	2.19	0.42
1:BF:310:TYR:CD1	1:BF:371:ASN:HB2	2.55	0.42
1:BF:315:ALA:HB3	1:BF:330:MET:HE1	2.02	0.42
2:BG:275:VAL:O	2:BG:275:VAL:HG13	2.20	0.42
1:BH:265:PHE:CD2	1:BH:378:PHE:HZ	2.37	0.42
1:BH:266:PHE:HB3	1:BH:368:ILE:HG22	2.02	0.42
2:BI:212:LEU:HD11	2:BI:230:LEU:HD22	2.01	0.42
1:BL:362:LYS:NZ	1:BL:363:MET:HE3	2.34	0.42
2:C:43:GLY:HA2	24:1H:277:TYR:CD2	2.54	0.42
2:C:231:ILE:O	2:C:235:VAL:HG23	2.20	0.42
2:CB:60:LYS:HE2	2:DB:282:TYR:CD2	2.55	0.42
2:CB:252:LEU:HA	2:CB:255:PHE:CE1	2.54	0.42
2:CB:346:TRP:CE3	2:CB:347:CYS:HB2	2.55	0.42
1:CC:1:MET:HE2	2:CD:72:PRO:HG3	2.01	0.42
2:CD:104:ALA:HB1	2:CD:411:GLU:OE2	2.19	0.42
1:CE:2:ARG:HE	1:CE:2:ARG:HB2	1.71	0.42
1:CE:203:ASP:OD2	1:CE:302:ALA:N	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CE:211:CYS:HA	1:CE:215:LEU:HB2	2.02	0.42
1:CG:377:MET:HA	1:CG:380:ARG:HG2	2.02	0.42
2:CH:260:VAL:HB	1:CI:397:TRP:HE1	1.85	0.42
2:CJ:105:ARG:HB2	2:CJ:411:GLU:HG3	2.00	0.42
2:CJ:322:ASP:OD1	2:CJ:372:GLN:NE2	2.52	0.42
1:CK:3:GLU:OE2	1:CK:128:ASP:N	2.53	0.42
1:CK:229:VAL:HA	1:CK:232:VAL:HG12	2.01	0.42
2:CL:213:THR:HG22	2:CL:217:LEU:HD12	2.00	0.42
2:CL:270:THR:CG2	2:CL:302:LEU:HD23	2.50	0.42
1:CM:396:HIS:CE1	1:CM:397:TRP:CZ3	3.07	0.42
1:DA:346:PRO:HG2	2:DB:394:LYS:HZ2	1.85	0.42
2:DB:21:TRP:CZ2	2:DB:65:CYS:HB3	2.55	0.42
2:DF:393:HIS:HE1	2:DF:397:LEU:HD11	1.84	0.42
1:DI:122:LYS:HB2	1:DI:122:LYS:HZ3	1.84	0.42
1:DI:183:TYR:CE2	1:DI:388:MET:HE3	2.54	0.42
1:DI:226:ASN:OD1	69:DI:500:GDP:N1	2.46	0.42
1:DI:326:VAL:HG11	1:DI:353:ILE:HD11	2.01	0.42
2:DJ:91:GLN:NE2	2:DJ:125:LEU:HG	2.34	0.42
2:DJ:103:TYR:H	2:DJ:408:TYR:HE1	1.67	0.42
2:DJ:392:ASP:HB2	2:DJ:422:ARG:CZ	2.50	0.42
1:DK:91:ILE:HD11	1:DK:119:VAL:HG11	2.02	0.42
1:DK:190:HIS:HB2	1:DK:414:ASN:ND2	2.34	0.42
1:DM:330:MET:O	1:DM:334:GLN:NE2	2.53	0.42
1:E:102:ALA:CB	1:E:403:MET:HE3	2.49	0.42
2:EA:332:ILE:HD13	2:EA:332:ILE:HA	1.89	0.42
1:EB:19:LYS:HA	1:EB:22:GLU:CG	2.46	0.42
1:EB:167:PHE:CZ	1:EB:233:MET:HG2	2.54	0.42
2:EE:268:VAL:HG12	2:EE:380:ASN:HB2	2.02	0.42
1:EF:4:ILE:HB	1:EF:50:TYR:CE1	2.53	0.42
1:EL:240:LEU:HD11	1:EL:250:LEU:HD13	2.01	0.42
1:F:316:LEU:HB2	1:F:366:THR:OG1	2.19	0.42
1:FB:375:GLN:HB2	1:FB:419:VAL:HG13	2.01	0.42
2:FC:362:VAL:HG11	2:FC:370:LYS:HA	2.02	0.42
1:FD:344:TRP:CE2	2:FE:401:LYS:HD2	2.55	0.42
2:FE:47:ASP:OD1	2:FE:47:ASP:N	2.45	0.42
1:FF:306:ARG:HD2	1:FF:340:TYR:HE1	1.84	0.42
1:FF:322:SER:OG	2:FG:222:PRO:O	2.32	0.42
2:FG:32:PRO:O	2:FG:86:LEU:HB2	2.19	0.42
2:FI:229:ARG:O	2:FI:233:GLN:HG2	2.20	0.42
1:FJ:31:ASP:OD1	1:FJ:35:THR:N	2.40	0.42
1:FJ:201:CYS:O	1:FJ:202:ILE:HD13	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FK:324:VAL:HG12	2:FK:326:LYS:H	1.84	0.42
1:FL:9:ALA:HB3	1:FL:137:HIS:HB3	2.01	0.42
1:FL:21:TRP:CZ3	1:FL:50:TYR:HB3	2.54	0.42
1:FL:187:LEU:HD11	1:FL:408:PHE:CE2	2.55	0.42
2:GA:212:LEU:HD21	2:GA:275:VAL:HG21	2.02	0.42
2:GE:169:TYR:HB3	2:GE:204:LEU:HD12	2.00	0.42
1:GH:113:ILE:HD11	1:GH:151:LEU:HB2	2.01	0.42
1:GH:263:LEU:HD21	1:GH:421:GLU:HG3	2.02	0.42
2:GI:180:ALA:HB3	2:GI:183:GLU:HB2	2.02	0.42
1:GJ:385:PHE:HZ	1:GJ:408:PHE:HB3	1.84	0.42
2:GK:166:LYS:N	2:GK:199:ASP:OD2	2.52	0.42
2:GK:313:MET:HG2	2:GK:380:ASN:O	2.19	0.42
1:GL:3:GLU:HG2	1:GL:62:ARG:NH1	2.35	0.42
1:GL:265:PHE:HB2	1:GL:374:ILE:HG21	2.02	0.42
2:HA:196:GLU:HB3	2:HA:197:HIS:CE1	2.55	0.42
1:HB:139:LEU:HG	1:HB:168:SER:HB3	2.02	0.42
2:HC:277:SER:O	2:HC:281:ALA:HB2	2.19	0.42
1:HD:347:ASN:ND2	2:HE:178:SER:HB2	2.34	0.42
1:HF:112:LEU:HD23	1:HF:116:VAL:HG23	2.01	0.42
2:HK:99:ALA:O	2:HK:105:ARG:HD3	2.20	0.42
1:I:404:ASP:O	1:I:407:GLU:HG2	2.20	0.42
1:IB:62:ARG:NH1	1:IB:127:CYS:SG	2.93	0.42
1:IB:325:GLU:CD	2:IC:221:ARG:HD3	2.45	0.42
2:IC:31:GLN:HG2	2:IC:37:PRO:HD3	2.02	0.42
2:IC:142:GLY:HA2	2:IC:183:GLU:HG3	2.02	0.42
2:IC:311:LYS:HD2	2:IC:342:GLN:HG3	2.02	0.42
1:ID:133:PHE:HB2	1:ID:164:MET:SD	2.59	0.42
1:ID:140:GLY:HA3	1:ID:181:GLU:OE1	2.20	0.42
2:IG:420:GLU:O	2:IG:423:GLU:HG2	2.19	0.42
1:IH:377:MET:HA	1:IH:380:ARG:CG	2.47	0.42
2:II:301:MET:HE1	2:II:307:PRO:HG3	2.02	0.42
2:IK:89:PRO:HG2	1:JK:277:GLY:HA2	2.00	0.42
2:IK:257:THR:HG21	1:IL:99:ASN:HB3	2.01	0.42
2:IK:349:THR:OG1	2:IK:350:GLY:N	2.53	0.42
1:IL:8:GLN:HB2	1:IL:65:LEU:HD23	2.02	0.42
2:JD:76:ASP:OD1	2:JD:77:GLU:N	2.53	0.42
1:JE:220:PRO:HA	1:JE:224:ASP:OD2	2.19	0.42
2:JF:402:ARG:HG2	2:JF:402:ARG:HH11	1.84	0.42
1:JG:19:LYS:HA	1:JG:19:LYS:HD3	1.84	0.42
2:JH:304:LYS:O	2:JH:390:ARG:NH2	2.52	0.42
1:JI:21:TRP:CZ3	1:JI:61:PRO:HB3	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JI:217:LEU:HB2	1:JI:220:PRO:CG	2.50	0.42
2:JL:226:ASN:ND2	2:JL:367:ASP:OD2	2.27	0.42
2:JL:295:VAL:HG21	2:JL:375:VAL:HG13	2.01	0.42
1:JM:169:VAL:HA	1:JM:202:ILE:HB	2.00	0.42
2:JN:99:ALA:HA	2:JN:110:ILE:HD12	2.02	0.42
2:JN:204:LEU:HD23	2:JN:204:LEU:HA	1.85	0.42
1:KA:58:ARG:NH2	1:KA:83:GLN:O	2.52	0.42
1:KA:263:LEU:HD22	1:KA:422:TYR:CD1	2.55	0.42
1:KC:113:ILE:HG12	1:KC:150:LEU:HG	2.02	0.42
2:KD:88:ASN:ND2	2:KD:90:GLU:OE2	2.53	0.42
1:KE:112:LEU:HD23	1:KE:116:VAL:HG23	2.02	0.42
1:KE:263:LEU:HD11	1:KE:425:TYR:CD2	2.55	0.42
2:KF:91:GLN:H	2:KF:121:ARG:HH11	1.67	0.42
1:KG:284:LEU:HB2	1:KG:362:LYS:HD3	2.02	0.42
2:KH:7:ILE:O	2:KH:137:VAL:HA	2.19	0.42
2:KH:28:HIS:NE2	2:KH:243:ARG:HD2	2.34	0.42
2:KH:234:VAL:HG21	2:KH:302:LEU:CD1	2.50	0.42
2:KH:399:TYR:OH	2:KH:415:GLU:OE2	2.29	0.42
2:KN:19:ALA:O	2:KN:22:GLU:HG3	2.19	0.42
2:KN:241:SER:N	2:KN:356:ASN:HD21	2.17	0.42
2:L:326:LYS:NZ	1:LA:208:TYR:CD2	2.87	0.42
2:L:334:THR:HA	2:L:337:THR:HG22	2.01	0.42
2:L:388:PHE:HA	2:L:391:ILE:HG22	2.02	0.42
1:LC:186:THR:HA	1:LC:189:VAL:HG12	2.00	0.42
1:LC:253:LEU:HD11	1:LC:316:LEU:HD21	2.02	0.42
2:LH:165:SER:HA	2:LH:199:ASP:OD2	2.20	0.42
2:LJ:225:THR:HB	23:1E:132:GLU:OE2	2.18	0.42
1:LK:229:VAL:HA	1:LK:232:VAL:HG22	2.01	0.42
2:LL:258:ASN:HD21	1:LM:180:VAL:HG22	1.85	0.42
1:LM:2:ARG:NH1	2:LN:71:GLU:HG3	2.35	0.42
1:LM:267:MET:HE1	1:LM:301:GLN:OE1	2.19	0.42
2:LN:422:ARG:NH1	2:LN:426:ALA:HB2	2.35	0.42
1:LO:8:GLN:O	1:LO:66:MET:HB3	2.20	0.42
1:LO:174:ARG:NH2	1:LO:205:GLU:OE2	2.51	0.42
1:MB:2:ARG:HH21	1:MB:240:LEU:HA	1.83	0.42
1:MB:187:LEU:HA	1:MB:190:HIS:CE1	2.55	0.42
2:MC:252:LEU:HA	2:MC:255:PHE:HE1	1.84	0.42
1:MF:113:ILE:HG13	1:MF:117:LEU:HD23	2.00	0.42
1:MF:135:LEU:HB3	1:MF:166:THR:HG22	2.02	0.42
1:MF:232:VAL:O	1:MF:236:VAL:HG13	2.20	0.42
1:MF:325:GLU:OE2	2:MG:221:ARG:HD2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MF:421:GLU:OE2	33:2G:122:THR:HA	2.20	0.42
2:MI:66:LEU:HD22	2:MI:122:ILE:HG12	2.01	0.42
2:MI:429:GLU:CD	13:0Z:173:GLY:H	2.27	0.42
2:MK:237:SER:HA	2:MK:320:ARG:HH11	1.85	0.42
2:MK:336:LYS:HE3	2:MK:336:LYS:HB3	1.77	0.42
1:MN:239:CYS:HB3	1:MN:248:SER:H	1.84	0.42
2:NA:104:ALA:HB1	2:NA:411:GLU:HB2	2.01	0.42
2:NA:207:GLU:HB3	2:NA:304:LYS:HZ2	1.85	0.42
2:NA:332:ILE:HD12	2:NA:351:PHE:CD1	2.55	0.42
1:ND:20:PHE:CD1	1:ND:233:MET:HE3	2.54	0.42
1:ND:318:ARG:HB3	1:ND:357:PRO:HA	2.01	0.42
2:NE:70:LEU:HD22	2:NE:110:ILE:HG22	2.01	0.42
1:NF:350:LYS:HG2	2:NG:179:THR:O	2.19	0.42
1:NH:68:LEU:HD12	1:NH:143:THR:HG22	2.02	0.42
2:NK:115:VAL:O	2:NK:119:LEU:HD23	2.19	0.42
2:NK:332:ILE:HD12	2:NK:351:PHE:CD2	2.54	0.42
2:NM:211:ASP:HA	2:NM:214:ARG:HG2	2.02	0.42
2:OC:328:VAL:HG21	2:OC:355:ILE:HD11	2.01	0.42
1:OD:311:LEU:HD23	1:OD:342:ILE:HG21	2.01	0.42
2:OE:238:LEU:HD21	2:OE:255:PHE:CZ	2.55	0.42
2:OE:414:GLU:HB2	2:OE:417:GLU:HG2	2.01	0.42
1:OF:91:ILE:HD11	1:OF:119:VAL:HG21	2.00	0.42
1:OF:311:LEU:HA	1:OF:342:ILE:HD12	2.02	0.42
1:OL:139:LEU:CD1	1:OL:168:SER:HB2	2.48	0.42
2:OM:93:VAL:HG12	2:OM:114:ILE:HD11	2.02	0.42
1:P:21:TRP:CD1	1:P:85:PHE:HE1	2.37	0.42
1:P:101:TRP:CD1	1:P:105:HIS:HB2	2.55	0.42
1:P:293:MET:HE1	1:P:315:ALA:HB2	2.01	0.42
2:PA:69:ASP:O	2:PA:94:SER:HA	2.20	0.42
2:PC:98:ASP:OD1	2:PC:99:ALA:N	2.52	0.42
2:PC:210:TYR:HB3	2:PC:214:ARG:NH2	2.35	0.42
1:PH:73:MET:HA	1:PH:76:VAL:HG12	2.02	0.42
2:PK:219:ILE:HD11	2:PK:367:ASP:HB2	2.02	0.42
1:PL:167:PHE:HE2	1:PL:233:MET:HG3	1.81	0.42
1:PL:263:LEU:HD22	1:PL:422:TYR:CE1	2.54	0.42
1:PL:267:MET:HG3	1:PL:301:GLN:OE1	2.19	0.42
1:PL:309:ARG:HH12	1:PL:342:ILE:HD12	1.84	0.42
1:QA:2:ARG:HD2	1:QA:2:ARG:HA	1.85	0.42
1:QA:274:THR:HG22	1:QA:282:ARG:HD2	2.01	0.42
2:QB:72:PRO:HA	2:QB:94:SER:OG	2.20	0.42
2:QB:336:LYS:HA	2:QB:336:LYS:HD2	1.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QF:32:PRO:HG3	2:QF:83:TYR:HE1	1.85	0.42
1:QG:325:GLU:OE1	1:QG:325:GLU:N	2.49	0.42
2:QH:264:ARG:NH1	2:QH:264:ARG:HB3	2.34	0.42
2:QH:288:VAL:HG13	2:QH:319:TYR:HE2	1.85	0.42
1:QI:178:THR:HB	1:QI:181:GLU:HB2	2.01	0.42
2:QL:269:LEU:O	2:QL:378:ILE:HD12	2.19	0.42
1:RC:46:ARG:HA	1:RC:46:ARG:HD3	1.83	0.42
1:RC:320:ARG:HB2	1:RC:362:LYS:NZ	2.35	0.42
1:RC:347:ASN:HD22	1:RC:347:ASN:C	2.27	0.42
2:RD:224:TYR:HA	2:RD:227:VAL:CG1	2.47	0.42
2:RD:395:PHE:HD2	2:RD:422:ARG:HD3	1.85	0.42
1:RE:242:PHE:HB2	1:RE:354:CYS:SG	2.59	0.42
2:RJ:23:LEU:HD12	2:RJ:23:LEU:HA	1.88	0.42
2:RL:402:ARG:HD2	2:RL:405:VAL:HG11	2.01	0.42
1:S:2:ARG:NH1	2:SA:72:PRO:HD2	2.35	0.42
1:S:290:THR:HG21	1:S:329:GLN:HB3	2.02	0.42
1:SB:389:PHE:HZ	1:SB:405:GLU:HG3	1.85	0.42
2:SC:24:PHE:O	2:SC:28:HIS:ND1	2.37	0.42
2:SC:203:MET:HE3	2:SC:384:ILE:HD11	2.02	0.42
2:SC:408:TYR:HD1	2:SC:413:MET:HE3	1.84	0.42
2:SC:431:ASP:HB2	55:3b:164:MET:CE	2.48	0.42
1:SD:80:PRO:HB2	1:SD:81:TYR:CD1	2.54	0.42
1:SD:311:LEU:CD1	1:SD:372:THR:HG23	2.46	0.42
2:SE:28:HIS:NE2	2:SE:243:ARG:HD2	2.35	0.42
1:SF:191:GLN:O	1:SF:195:ASN:HB2	2.19	0.42
2:SG:6:CYS:O	2:SG:65:CYS:HA	2.19	0.42
2:SI:273:ALA:HB3	2:SI:295:VAL:HG23	2.01	0.42
2:SI:425:LEU:O	2:SI:429:GLU:OE1	2.37	0.42
1:SJ:152:ILE:HG22	1:SJ:195:ASN:HB3	2.02	0.42
1:SJ:235:GLY:HA3	1:SJ:366:THR:HG21	2.02	0.42
2:SK:275:VAL:O	2:SK:275:VAL:HG13	2.20	0.42
2:TA:242:LEU:HD12	2:TA:243:ARG:HG2	2.02	0.42
1:TB:180:VAL:O	1:TB:180:VAL:HG12	2.20	0.42
2:TC:339:ARG:HA	61:3w:212:LYS:HE2	2.02	0.42
1:TD:193:VAL:HG21	1:TD:418:LEU:HD12	2.01	0.42
1:TD:251:ARG:HG3	1:TD:251:ARG:HH11	1.84	0.42
1:TF:86:ARG:HB3	1:TF:88:ASP:OD1	2.18	0.42
1:TF:334:GLN:HE22	1:TF:349:ILE:H	1.67	0.42
1:TH:404:ASP:OD1	1:TH:405:GLU:N	2.48	0.42
2:TK:102:ASN:ND2	2:TK:105:ARG:HG3	2.34	0.42
1:TL:156:ARG:HA	1:TL:156:ARG:HD2	1.91	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TL:390:ARG:HH12	57:3i:183:GLU:HG2	1.85	0.42
2:UA:377:MET:HE2	2:UA:377:MET:HB3	1.84	0.42
1:UD:20:PHE:HZ	1:UD:50:TYR:CE2	2.37	0.42
1:UF:293:MET:HE3	1:UF:315:ALA:HB2	2.00	0.42
1:UF:377:MET:HG2	1:UF:380:ARG:HH21	1.83	0.42
1:UH:36:TYR:OH	1:UH:40:SER:O	2.37	0.42
1:UH:46:ARG:HD3	1:UH:46:ARG:HA	1.93	0.42
2:UI:211:ASP:HB3	2:UI:215:ARG:HH11	1.85	0.42
2:UI:241:SER:HA	2:UI:356:ASN:HD22	1.85	0.42
2:UK:223:SER:OG	2:UK:224:TYR:N	2.53	0.42
2:UK:246:GLY:HA3	2:UK:356:ASN:HA	2.01	0.42
1:V:364:SER:OG	1:V:365:VAL:N	2.53	0.42
1:VB:31:ASP:OD2	1:VB:37:GLN:NE2	2.52	0.42
2:VC:89:PRO:HG2	2:WC:280:LYS:HG2	2.01	0.42
1:VF:257:LEU:HA	1:VF:312:THR:HG21	1.99	0.42
1:VJ:25:SER:HB3	1:VJ:30:VAL:HB	2.02	0.42
1:VJ:200:MET:HE3	1:VJ:200:MET:HB3	1.87	0.42
1:VL:141:GLY:O	1:VL:145:SER:OG	2.33	0.42
2:VM:134:GLY:HA3	2:VM:165:SER:OG	2.19	0.42
1:W:218:THR:OG1	14:0c:321:THR:HG22	2.19	0.42
1:W:229:VAL:HA	1:W:232:VAL:HG12	2.00	0.42
2:WA:215:ARG:NH2	2:WA:299:ALA:O	2.41	0.42
1:WB:139:LEU:HD22	1:WB:188:SER:HB3	2.02	0.42
1:WB:372:THR:O	1:WB:375:GLN:HG3	2.19	0.42
1:WF:424:GLN:O	1:WF:428:ALA:HB2	2.20	0.42
2:WG:295:VAL:HG11	2:WG:377:MET:HB2	2.01	0.42
1:WH:113:ILE:O	1:WH:117:LEU:HD23	2.20	0.42
2:WI:102:ASN:HB3	2:WI:105:ARG:HB3	2.02	0.42
2:WI:251:ASP:H	2:WI:254:GLU:CG	2.33	0.42
1:WJ:173:PRO:HD3	1:WJ:380:ARG:HE	1.85	0.42
1:WJ:316:LEU:HB2	1:WJ:366:THR:OG1	2.19	0.42
2:WK:333:ALA:O	2:WK:337:THR:HG23	2.20	0.42
3:X:85:LYS:O	3:X:107:ASN:ND2	2.52	0.42
3:XB:14:LEU:HD12	3:XB:25:TRP:CE2	2.54	0.42
4:XM:273:VAL:O	4:XM:277:VAL:HG23	2.19	0.42
5:XN:80:ILE:HD11	32:2B:74:ARG:HG2	2.01	0.42
5:XN:289:TYR:CE2	5:XN:293:ARG:NH2	2.87	0.42
4:XQ:251:LYS:HA	4:XQ:277:VAL:HG11	2.00	0.42
6:0A:103:LYS:HD2	14:0d:223:LYS:HB3	2.01	0.42
6:0A:176:LYS:HD3	6:0A:177:ASP:H	1.85	0.42
7:0D:358:ARG:HB3	7:0D:362:ASP:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:0I:195:ALA:O	8:0I:199:LYS:HG2	2.19	0.42
9:0M:251:ILE:HG13	9:0M:259:LEU:HB3	2.02	0.42
9:0N:179:TRP:CE2	9:0N:190:PRO:HB3	2.53	0.42
10:0R:52:GLU:HA	10:0R:55:VAL:HG22	2.02	0.42
10:0R:236:LEU:O	10:0R:240:GLU:OE1	2.37	0.42
13:0Z:243:THR:HB	13:0Z:246:GLN:OE1	2.20	0.42
14:0c:274:HIS:NE2	14:0c:362:GLU:OE2	2.53	0.42
16:0k:916:ARG:NH1	16:0k:963:TYR:HE1	2.18	0.42
16:0k:935:LEU:HD22	16:0k:940:VAL:HG21	2.01	0.42
19:0r:194:MET:HE2	47:3D:11:PHE:CE2	2.54	0.42
19:0r:254:LEU:HD21	23:1E:195:ALA:HB2	2.01	0.42
21:0w:132:LEU:O	21:0w:135:GLN:HG3	2.19	0.42
22:0z:233:ASP:O	22:0z:236:LEU:N	2.53	0.42
23:1A:196:LYS:O	23:1A:200:GLU:OE1	2.37	0.42
23:1B:330:TRP:CG	44:2w:10:TYR:CE1	3.07	0.42
24:1H:723:GLU:OE2	24:1H:744:HIS:ND1	2.53	0.42
24:1I:427:PHE:HB3	24:1I:505:ILE:HG23	2.02	0.42
24:1I:535:MET:HA	24:1I:538:MET:HG2	2.02	0.42
24:1K:279:PHE:HB2	24:1K:284:SER:OG	2.20	0.42
24:1K:680:ILE:HD12	24:1K:696:MET:SD	2.60	0.42
25:1O:284:LEU:HB3	25:1O:382:TYR:CZ	2.55	0.42
27:1T:761:ARG:HH22	27:1T:779:ASP:HB3	1.84	0.42
22:1x:254:THR:O	22:1x:258:LEU:HG	2.19	0.42
33:2F:94:GLN:O	33:2F:108:SER:HA	2.19	0.42
33:2G:213:PRO:HD3	33:2G:258:ASN:ND2	2.34	0.42
33:2I:20:LEU:HB3	33:2I:82:LYS:HB2	2.02	0.42
33:2I:218:ARG:HH22	33:2I:227:HIS:CE1	2.38	0.42
36:2Q:17:MET:HE1	36:2Q:30:VAL:HG22	2.02	0.42
44:2w:304:MET:HE3	44:2w:308:ARG:HG2	2.01	0.42
46:3B:63:LEU:O	46:3B:355:ARG:NE	2.45	0.42
46:3B:283:ALA:HB1	46:3B:311:HIS:HE1	1.84	0.42
46:3B:397:ARG:H	46:3B:397:ARG:HG2	1.62	0.42
48:3L:433:ARG:O	48:3L:437:MET:HG2	2.20	0.42
49:3P:436:PRO:HA	49:3P:439:VAL:HG22	2.00	0.42
55:3b:25:ARG:HA	55:3b:28:GLU:CG	2.49	0.42
57:3i:92:LYS:HA	57:3i:95:ASN:HB3	2.02	0.42
57:3i:94:ARG:H	57:3i:94:ARG:HG2	1.65	0.42
60:3r:20:TYR:O	60:3r:23:HIS:HB3	2.19	0.42
65:5G:241:THR:HA	65:5G:244:GLN:HB2	2.01	0.42
65:5H:227:ASP:HA	65:5H:230:MET:HE2	2.02	0.42
66:5L:195:PRO:HG2	66:5L:198:LEU:HG	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:5O:78:LEU:HB2	67:5O:103:PHE:HB2	2.02	0.42
68:5S:78:ASN:HA	68:5S:82:ARG:NH2	2.35	0.42
68:5T:129:MET:CG	68:5T:130:PRO:HD2	2.50	0.42
1:A:8:GLN:HG2	1:A:17:GLY:HA3	2.02	0.42
2:AA:189:LEU:HD11	2:AA:418:PHE:CE1	2.55	0.42
2:AC:258:ASN:HD22	2:AC:352:LYS:HD3	1.85	0.42
1:AD:2:ARG:HH11	2:AE:72:PRO:HD2	1.83	0.42
1:AF:324:LYS:HG2	2:AG:222:PRO:HD2	2.00	0.42
1:AH:19:LYS:HZ3	1:AH:230:ALA:HB2	1.82	0.42
1:AJ:362:LYS:HZ1	54:3a:137:VAL:HA	1.85	0.42
1:AL:159:TYR:HB3	1:AL:162:ARG:HG3	2.01	0.42
2:AM:223:SER:OG	2:AM:224:TYR:N	2.52	0.42
2:AM:259:LEU:HD21	2:AM:268:VAL:HG11	2.02	0.42
1:AN:36:TYR:CZ	1:AN:38:GLY:HA3	2.55	0.42
1:B:268:MET:O	1:B:300:MET:HG2	2.19	0.42
1:BB:247:ASN:OD1	2:BC:11:GLN:NE2	2.52	0.42
2:BC:33:ASP:OD1	2:BC:34:GLY:N	2.52	0.42
2:BC:294:SER:HA	2:BC:297:GLU:OE1	2.19	0.42
1:BD:314:SER:HA	1:BD:350:LYS:O	2.20	0.42
1:BF:173:PRO:HA	1:BF:176:SER:HB2	2.00	0.42
2:BG:271:SER:OG	2:BG:377:MET:HB3	2.19	0.42
2:BI:175:PRO:HD2	2:BI:207:GLU:OE2	2.19	0.42
2:BK:389:ALA:HA	2:BK:392:ASP:OD2	2.19	0.42
1:BL:290:THR:HA	1:BL:293:MET:HE2	2.02	0.42
2:C:170:THR:HG21	2:C:194:LEU:HD21	2.02	0.42
2:C:262:TYR:OH	1:CA:391:ARG:O	2.28	0.42
2:C:269:LEU:HD23	2:C:379:ALA:O	2.19	0.42
1:CA:65:LEU:HD22	1:CA:90:PHE:CE1	2.54	0.42
1:CA:131:GLN:HG2	1:CA:240:LEU:HD21	2.02	0.42
1:CA:267:MET:HE1	1:CA:310:TYR:CE1	2.52	0.42
2:CB:262:TYR:OH	1:CC:391:ARG:O	2.30	0.42
1:CC:204:ASN:HB3	1:CC:208:TYR:CE2	2.54	0.42
1:CE:213:ARG:NH2	1:CE:297:LYS:HB2	2.29	0.42
2:CH:31:GLN:H	2:CH:31:GLN:CD	2.26	0.42
2:CH:142:GLY:HA3	2:CH:183:GLU:HG3	2.01	0.42
2:CH:172:TYR:HD1	2:CH:203:MET:HG3	1.80	0.42
2:CH:311:LYS:HZ3	2:CH:344:VAL:HG22	1.84	0.42
2:CJ:271:SER:HA	2:CJ:302:LEU:HG	2.00	0.42
1:CK:319:GLY:HA2	1:CK:357:PRO:HD3	2.02	0.42
2:CL:66:LEU:HD11	2:CL:121:ARG:HB2	2.01	0.42
2:CL:251:ASP:O	2:CL:254:GLU:HB3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CL:311:LYS:H	2:CL:382:THR:HB	1.84	0.42
1:DA:253:LEU:HD21	1:DA:316:LEU:HD21	2.02	0.42
2:DB:345:ASP:OD1	2:DB:346:TRP:N	2.52	0.42
2:DD:8:HIS:CE1	2:DD:17:GLY:HA3	2.55	0.42
1:DG:48:ASN:O	1:DG:62:ARG:NH2	2.43	0.42
2:DH:90:GLU:O	2:DH:91:GLN:HG3	2.18	0.42
1:DI:249:ASP:H	1:DI:252:LYS:HB3	1.84	0.42
2:DJ:31:GLN:HB2	2:DJ:33:ASP:OD1	2.20	0.42
1:DK:63:ALA:O	1:DK:89:ASN:ND2	2.49	0.42
2:DL:152:LEU:O	2:DL:156:ARG:HG2	2.19	0.42
1:E:323:THR:HG21	2:EA:224:TYR:CZ	2.55	0.42
2:EA:133:GLN:OE1	2:EA:251:ASP:HB3	2.19	0.42
1:EB:326:VAL:HG21	1:EB:353:ILE:HD11	2.02	0.42
2:EC:40:LYS:HD3	26:1Q:427:ARG:HH21	1.84	0.42
2:EC:209:ILE:HG12	2:EC:302:LEU:HD22	2.00	0.42
1:ED:110:ALA:O	1:ED:113:ILE:HG22	2.20	0.42
1:ED:139:LEU:HD13	1:ED:188:SER:HB2	2.00	0.42
1:ED:151:LEU:O	1:ED:155:LEU:HD13	2.20	0.42
1:ED:256:ASN:OD1	2:EE:181:VAL:HG22	2.20	0.42
1:ED:344:TRP:CE3	1:ED:345:ILE:HG13	2.55	0.42
2:EE:46:ASP:HA	25:1O:493:PHE:CE2	2.54	0.42
1:EF:299:MET:HA	1:EF:299:MET:HE2	2.00	0.42
2:EG:171:VAL:HG13	2:EG:204:LEU:O	2.20	0.42
2:EG:223:SER:O	2:EG:227:VAL:HG23	2.20	0.42
2:EG:272:TYR:HD1	2:EG:376:CYS:HB2	1.85	0.42
1:EH:67:ASP:OD1	1:EH:143:THR:HG21	2.19	0.42
2:EI:251:ASP:HB2	2:EI:254:GLU:HG2	2.01	0.42
1:EJ:320:ARG:NH2	1:EJ:355:ASP:OD1	2.52	0.42
1:EJ:324:LYS:HA	1:EJ:327:ASP:OD2	2.18	0.42
1:F:117:LEU:HD21	1:F:154:LYS:HD2	2.02	0.42
2:FA:47:ASP:HB2	2:FA:50:ASN:ND2	2.34	0.42
1:FB:207:LEU:HB3	1:FB:225:LEU:HG	2.02	0.42
2:FC:251:ASP:N	2:FC:254:GLU:HB3	2.34	0.42
1:FF:181:GLU:HG2	1:FF:182:PRO:HD3	2.01	0.42
2:FG:346:TRP:CZ3	2:FG:347:CYS:HB2	2.55	0.42
1:FH:133:PHE:CD2	1:FH:155:LEU:HD23	2.54	0.42
1:FH:397:TRP:O	1:FH:401:GLU:HG2	2.20	0.42
1:FJ:12:CYS:O	1:FJ:16:ILE:HG12	2.20	0.42
1:FJ:347:ASN:O	2:FK:181:VAL:HG12	2.20	0.42
1:FL:267:MET:HG3	1:FL:299:MET:HE3	2.00	0.42
1:FL:314:SER:HA	1:FL:350:LYS:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:68:LEU:HD12	1:G:97:ALA:HB2	2.02	0.42
1:G:313:ALA:HB1	1:G:367:PHE:CE1	2.53	0.42
2:GA:161:TYR:HB3	2:GA:164:LYS:HE2	2.02	0.42
2:GE:177:VAL:HG23	2:GE:207:GLU:OE2	2.20	0.42
2:GE:282:TYR:CE1	10:0R:158:MET:HE1	2.55	0.42
2:GG:398:MET:HE3	2:GG:398:MET:HB2	1.86	0.42
1:GH:149:THR:HA	1:GH:152:ILE:HG22	2.02	0.42
1:H:119:VAL:O	1:H:123:GLU:HG2	2.19	0.42
2:HA:288:VAL:HA	2:HA:291:ILE:HG12	2.00	0.42
1:HB:330:MET:O	1:HB:349:ILE:HD11	2.19	0.42
2:HC:364:PRO:HB3	17:0n:370:GLU:OE2	2.19	0.42
1:HD:221:THR:HG23	1:HD:223:GLY:H	1.85	0.42
1:HD:379:ARG:HG3	1:HD:379:ARG:NH1	2.35	0.42
2:HE:21:TRP:CZ2	2:HE:65:CYS:HB3	2.55	0.42
2:HE:70:LEU:HD21	2:HE:149:LEU:HD22	2.00	0.42
2:HE:338:LYS:HE2	2:HE:338:LYS:HB3	1.66	0.42
1:HF:19:LYS:HD2	1:HF:22:GLU:OE1	2.20	0.42
1:HH:26:ASP:OD2	17:0n:229:TYR:OH	2.32	0.42
1:HH:185:THR:O	1:HH:189:VAL:HG23	2.19	0.42
1:HJ:13:GLY:HA2	1:HJ:16:ILE:HG22	2.02	0.42
1:HJ:342:ILE:HD12	1:HJ:344:TRP:CE2	2.55	0.42
1:HL:11:GLN:HE22	69:HL:500:GDP:H8	1.66	0.42
1:HL:97:ALA:O	1:HL:103:LYS:HE2	2.20	0.42
1:HL:138:SER:HA	1:HL:169:VAL:H	1.85	0.42
1:HL:165:MET:SD	1:HL:250:LEU:HD22	2.60	0.42
2:HM:270:THR:O	2:HM:302:LEU:HB2	2.19	0.42
2:HM:282:TYR:CE1	17:0n:89:LEU:HD21	2.55	0.42
2:IA:245:ASP:N	2:IA:245:ASP:OD1	2.52	0.42
2:IC:105:ARG:CZ	2:IC:110:ILE:HD11	2.49	0.42
2:IC:297:GLU:OE1	2:IC:298:PRO:HD2	2.20	0.42
1:ID:347:ASN:ND2	2:IE:178:SER:HB2	2.34	0.42
2:IE:38:SER:C	2:IE:40:LYS:H	2.27	0.42
2:IE:151:ALA:O	2:IE:154:LEU:N	2.53	0.42
2:IG:215:ARG:HH21	2:IG:299:ALA:C	2.27	0.42
1:IH:61:PRO:HD3	1:IH:84:LEU:HG	2.02	0.42
1:IJ:233:MET:HA	1:IJ:236:VAL:HG12	2.00	0.42
1:IL:360:GLY:HA2	38:2V:87:HIS:N	2.35	0.42
2:J:345:ASP:N	2:J:345:ASP:OD1	2.53	0.42
1:JA:246:LEU:HA	2:JB:11:GLN:NE2	2.23	0.42
2:JB:156:ARG:HA	2:JB:159:VAL:HG22	2.01	0.42
2:JD:358:GLN:OE1	2:JD:358:GLN:HA	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JF:145:THR:N	71:JF:501:GTP:O2G	2.53	0.42
2:JF:346:TRP:CE3	2:JF:347:CYS:HB2	2.54	0.42
1:JG:164:MET:N	1:JG:197:ASP:OD2	2.52	0.42
1:JI:137:HIS:HE1	1:JI:166:THR:HB	1.84	0.42
1:JI:148:GLY:O	1:JI:152:ILE:HG13	2.20	0.42
1:JI:344:TRP:CD1	1:JI:344:TRP:H	2.38	0.42
2:JJ:225:THR:HG22	2:JJ:229:ARG:HE	1.84	0.42
2:JJ:275:VAL:O	2:JJ:275:VAL:HG13	2.20	0.42
1:JK:45:GLU:OE1	1:JK:46:ARG:HG2	2.20	0.42
1:JM:19:LYS:HB2	1:JM:19:LYS:HE2	1.87	0.42
1:JM:132:GLY:HA3	1:JM:163:ILE:HG22	2.01	0.42
1:JM:173:PRO:HD2	1:JM:380:ARG:CZ	2.50	0.42
2:JN:69:ASP:OD2	2:JN:70:LEU:N	2.53	0.42
2:KD:1:MET:CG	2:KD:2:ARG:H	2.21	0.42
2:KD:167:LEU:HD11	2:KD:255:PHE:CZ	2.53	0.42
2:KH:326:LYS:HD2	1:KI:212:PHE:CZ	2.55	0.42
2:KJ:320:ARG:O	2:KJ:373:ARG:HA	2.20	0.42
2:L:91:GLN:NE2	2:L:125:LEU:HG	2.35	0.42
2:L:353:CYS:HB2	1:LA:177:ASP:HB2	2.02	0.42
1:LA:32:PRO:HG3	1:LA:81:TYR:CZ	2.55	0.42
2:LB:405:VAL:O	2:LB:409:VAL:HG23	2.20	0.42
1:LC:208:TYR:CE1	1:LC:225:LEU:HD11	2.55	0.42
2:LD:346:TRP:CD1	1:LE:391:ARG:HG3	2.55	0.42
1:LE:317:PHE:HB2	1:LE:353:ILE:HD13	2.02	0.42
2:LF:212:LEU:O	2:LF:216:SER:OG	2.23	0.42
2:LJ:177:VAL:HG23	2:LJ:207:GLU:HG3	2.01	0.42
2:LJ:270:THR:HA	2:LJ:377:MET:O	2.20	0.42
2:LJ:345:ASP:OD2	2:LJ:345:ASP:N	2.53	0.42
2:LL:250:VAL:HA	2:LL:254:GLU:HG2	2.02	0.42
2:LN:247:ALA:HB1	1:LO:222:PHE:CD2	2.55	0.42
2:LN:330:ALA:O	2:LN:334:THR:HG23	2.19	0.42
1:LO:22:GLU:HG2	1:LO:81:TYR:CD1	2.54	0.42
1:M:312:THR:HG21	2:MA:404:PHE:HZ	1.85	0.42
2:MA:101:ASN:HD21	2:MA:180:ALA:HB1	1.85	0.42
2:MA:109:THR:OG1	2:MA:411:GLU:OE2	2.27	0.42
2:MA:250:VAL:CG2	2:MA:318:MET:HE1	2.50	0.42
2:MC:158:SER:HB2	2:MC:163:LYS:NZ	2.35	0.42
1:MD:208:TYR:HE1	1:MD:225:LEU:HD11	1.84	0.42
2:MK:322:ASP:OD1	23:1B:296:GLY:HA2	2.20	0.42
1:ML:339:SER:CB	6:0A:111:GLU:H	2.31	0.42
2:NA:36:MET:SD	2:NA:36:MET:N	2.93	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NC:56:THR:HG23	2:NC:58:ALA:N	2.35	0.42
2:NC:98:ASP:O	2:NC:105:ARG:NH1	2.53	0.42
2:NC:335:ILE:HD13	2:NC:335:ILE:HA	1.93	0.42
1:ND:252:LYS:HD3	2:NE:100:ALA:HA	2.02	0.42
1:ND:305:PRO:HA	1:ND:371:ASN:ND2	2.34	0.42
2:NE:32:PRO:O	2:NE:86:LEU:HB2	2.19	0.42
2:NE:251:ASP:H	2:NE:254:GLU:HG3	1.84	0.42
1:NF:27:GLU:OE1	1:NF:241:ARG:NH1	2.49	0.42
1:NF:267:MET:O	1:NF:268:MET:HE2	2.19	0.42
1:NH:19:LYS:HD2	1:NH:19:LYS:HA	1.95	0.42
2:NI:139:HIS:CE1	2:NI:170:THR:HG22	2.55	0.42
1:NJ:175:VAL:HG12	1:NJ:175:VAL:O	2.19	0.42
1:NJ:217:LEU:HG	1:NJ:220:PRO:HB3	2.01	0.42
1:NJ:221:THR:OG1	1:NJ:222:PHE:N	2.51	0.42
2:NM:227:VAL:O	2:NM:231:ILE:HG12	2.20	0.42
2:OA:213:THR:O	2:OA:217:LEU:HB2	2.18	0.42
2:OA:271:SER:HA	2:OA:302:LEU:HB2	2.01	0.42
1:OB:208:TYR:CE1	1:OB:225:LEU:HD11	2.54	0.42
1:OH:306:ARG:HG3	1:OH:340:TYR:CE2	2.55	0.42
2:OI:166:LYS:HE2	2:OI:197:HIS:O	2.19	0.42
1:OJ:329:GLN:O	1:OJ:333:VAL:HG23	2.20	0.42
2:OM:431:ASP:OD1	2:OM:432:TYR:N	2.53	0.42
1:P:245:GLN:HE21	1:P:353:ILE:HG21	1.84	0.42
1:PB:175:VAL:HG11	1:PB:208:TYR:HE1	1.85	0.42
1:PD:172:SER:OG	1:PD:205:GLU:OE1	2.25	0.42
1:PD:299:MET:CE	1:PD:301:GLN:HG2	2.49	0.42
1:PF:282:ARG:HH21	1:PF:288:GLU:HG3	1.84	0.42
1:PJ:256:ASN:HD21	2:PK:101:ASN:ND2	2.11	0.42
2:PK:204:LEU:HD12	2:PK:231:ILE:HG12	2.01	0.42
2:PM:164:LYS:HD3	2:PM:164:LYS:HA	1.83	0.42
1:QA:174:ARG:HH12	1:QA:380:ARG:NE	2.18	0.42
2:QD:217:LEU:HD11	2:QD:230:LEU:HD21	2.02	0.42
2:QD:295:VAL:CG1	2:QD:377:MET:HB2	2.50	0.42
2:QF:191:THR:HA	2:QF:194:LEU:HB2	2.02	0.42
1:QG:54:SER:OG	1:QG:55:SER:N	2.53	0.42
2:QH:234:VAL:HG21	2:QH:302:LEU:HD22	2.02	0.42
1:QI:282:ARG:NH2	1:QI:292:GLN:OE1	2.53	0.42
2:QL:105:ARG:O	2:QL:110:ILE:HG12	2.19	0.42
2:QL:275:VAL:O	2:QL:275:VAL:HG13	2.19	0.42
2:QL:319:TYR:HB2	2:QL:355:ILE:HG12	2.00	0.42
1:RA:156:ARG:HH12	1:RA:197:ASP:CG	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RA:313:ALA:HB3	1:RA:349:ILE:HG12	2.01	0.42
1:RC:293:MET:CG	1:RC:367:PHE:HB2	2.50	0.42
2:RD:384:ILE:O	2:RD:387:VAL:HG22	2.20	0.42
1:RE:36:TYR:CZ	1:RE:44:LEU:HB2	2.55	0.42
1:RG:21:TRP:CZ2	1:RG:63:ALA:HB2	2.55	0.42
1:RI:172:SER:C	1:RI:380:ARG:HH12	2.28	0.42
2:RJ:262:TYR:HD2	2:RJ:265:ILE:HG13	1.85	0.42
2:RJ:286:LEU:HD23	2:RJ:286:LEU:HA	1.87	0.42
2:RL:101:ASN:HA	2:RL:144:GLY:N	2.34	0.42
2:SA:88:ASN:OD1	2:SA:89:PRO:HD2	2.19	0.42
1:SB:28:HIS:NE2	1:SB:241:ARG:HD2	2.34	0.42
1:SB:65:LEU:HB3	1:SB:73:MET:HE1	2.01	0.42
2:SC:213:THR:HG22	2:SC:219:ILE:HB	2.02	0.42
2:SC:339:ARG:NH1	55:3b:144:PRO:HG3	2.35	0.42
1:SF:273:LEU:HD23	1:SF:273:LEU:HA	1.83	0.42
1:SH:91:ILE:HD11	1:SH:119:VAL:HG21	2.01	0.42
2:SI:346:TRP:CD1	1:SJ:391:ARG:HG3	2.55	0.42
1:SJ:311:LEU:HD23	1:SJ:342:ILE:HD13	2.01	0.42
2:SK:21:TRP:CH2	2:SK:52:PHE:HB3	2.55	0.42
1:T:324:LYS:HB3	2:TA:222:PRO:HD2	1.99	0.42
1:T:392:LYS:O	1:T:392:LYS:HG3	2.20	0.42
2:TA:201:ALA:O	2:TA:268:VAL:HG22	2.19	0.42
2:TA:422:ARG:HH12	2:TA:426:ALA:HB2	1.84	0.42
1:TB:139:LEU:HD21	1:TB:192:LEU:HD11	2.01	0.42
1:TB:323:THR:HG21	2:TC:224:TYR:CZ	2.55	0.42
1:TD:77:ARG:HD3	1:TD:90:PHE:HE2	1.85	0.42
1:TF:250:LEU:HD13	1:TF:250:LEU:HA	1.77	0.42
1:TF:276:ARG:HD3	21:0w:252:GLU:OE2	2.20	0.42
2:TG:116:ASP:OD1	2:TG:116:ASP:N	2.52	0.42
2:TG:275:VAL:O	2:TG:275:VAL:HG13	2.20	0.42
1:TJ:200:MET:HB2	1:TJ:266:PHE:HB2	2.02	0.42
2:TK:387:VAL:HG23	2:TK:388:PHE:CD2	2.54	0.42
1:U:183:TYR:HE2	1:U:394:PHE:HB2	1.85	0.42
2:UA:352:LYS:HD2	1:UB:177:ASP:O	2.20	0.42
1:UB:372:THR:HA	1:UB:422:TYR:CD1	2.54	0.42
2:UC:64:ARG:NH1	2:UC:129:CYS:SG	2.93	0.42
2:UC:101:ASN:ND2	2:UC:143:GLY:HA2	2.34	0.42
2:UC:156:ARG:HA	2:UC:156:ARG:HD2	1.91	0.42
2:UG:91:GLN:NE2	2:UG:121:ARG:HB3	2.33	0.42
2:UG:203:MET:O	2:UG:204:LEU:HD23	2.19	0.42
2:UG:268:VAL:CG2	2:UG:378:ILE:HG13	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:UG:329:ASN:OD1	1:UH:175:VAL:HG13	2.20	0.42
2:UI:208:ALA:HB2	2:UI:304:LYS:HG2	2.02	0.42
1:UJ:163:ILE:HD11	1:UJ:251:ARG:HD3	2.01	0.42
2:UK:392:ASP:HB3	2:UK:425:LEU:HD23	2.01	0.42
1:UL:355:ASP:HB3	1:UL:356:ILE:HD12	2.02	0.42
1:V:183:TYR:HB3	1:V:398:TYR:HE1	1.85	0.42
1:VB:21:TRP:CZ2	1:VB:63:ALA:HB2	2.55	0.42
2:VC:9:ILE:HG22	2:VC:146:GLY:HA2	2.00	0.42
1:VD:19:LYS:HE2	1:VD:19:LYS:HA	2.01	0.42
1:VH:311:LEU:HA	1:VH:342:ILE:HD12	2.00	0.42
1:VJ:252:LYS:NZ	71:VK:501:GTP:O2G	2.31	0.42
2:VK:271:SER:OG	2:VK:377:MET:HB3	2.19	0.42
2:VK:333:ALA:O	2:VK:337:THR:HG23	2.20	0.42
2:VM:115:VAL:HG21	2:VM:152:LEU:CD2	2.50	0.42
1:W:110:ALA:O	1:W:113:ILE:HG22	2.20	0.42
2:WA:160:ASP:OD1	2:WA:161:TYR:N	2.52	0.42
2:WC:272:TYR:HD1	2:WC:376:CYS:HB2	1.85	0.42
2:WC:319:TYR:HB3	2:WC:323:VAL:HG21	2.01	0.42
1:WF:141:GLY:O	1:WF:145:SER:OG	2.36	0.42
1:WF:183:TYR:HE1	1:WF:388:MET:HB2	1.83	0.42
1:WF:252:LYS:HD3	2:WG:100:ALA:HA	2.01	0.42
2:WI:19:ALA:HA	2:WI:22:GLU:HG2	2.01	0.42
2:WI:422:ARG:NH1	2:WI:426:ALA:HB2	2.35	0.42
1:WJ:20:PHE:HA	1:WJ:230:ALA:HB1	2.01	0.42
1:WJ:324:LYS:NZ	2:WK:227:VAL:HG23	2.35	0.42
2:WK:122:ILE:HD13	2:WK:157:LEU:HD21	2.01	0.42
2:WK:274:PRO:HG2	2:WK:371:VAL:HG11	2.00	0.42
1:WL:113:ILE:HD12	1:WL:116:VAL:HB	2.01	0.42
2:WM:203:MET:HE2	2:WM:203:MET:N	2.34	0.42
3:XF:49:ILE:O	3:XF:159:ASN:N	2.52	0.42
4:XO:137:CYS:SG	4:XO:143:THR:HB	2.60	0.42
6:0A:61:LYS:HZ3	6:0A:90:LEU:HD21	1.85	0.42
6:0A:176:LYS:HE3	6:0A:210:ARG:HH11	1.85	0.42
6:0:176:LYS:HB2	6:0:210:ARG:HH12	1.84	0.42
7:0C:372:PHE:CE1	17:0m:46:THR:HB	2.55	0.42
9:0L:467:ALA:HB1	9:0L:486:ASP:HB2	2.01	0.42
9:0M:287:VAL:HG13	9:0M:299:VAL:HG13	2.02	0.42
9:0M:310:ASN:ND2	33:2G:3:SER:O	2.48	0.42
9:0N:108:LYS:O	9:0N:110:LYS:N	2.50	0.42
9:0N:484:ALA:HB2	9:0N:513:LEU:HD22	2.02	0.42
9:0O:122:TYR:CE2	9:0O:136:LEU:HD11	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:0R:280:LEU:HA	10:0R:283:GLU:CD	2.44	0.42
12:0W:238:LEU:HD12	12:0W:276:LEU:HD13	2.01	0.42
16:0l:704:TYR:HB2	16:0l:717:VAL:HG13	2.01	0.42
17:0n:74:TYR:HD2	17:0o:400:ILE:HG21	1.84	0.42
22:0z:259:LEU:HD11	31:1s:228:LEU:HG	2.01	0.42
23:1B:321:LEU:HB2	44:2w:413:VAL:HG21	2.00	0.42
23:1B:327:LYS:HE2	23:1B:327:LYS:HA	2.01	0.42
23:1E:177:ALA:CA	23:1E:180:ARG:HH21	2.33	0.42
23:1E:261:LEU:O	23:1E:265:GLU:HG2	2.20	0.42
24:1H:275:THR:OG1	24:1H:288:VAL:HB	2.20	0.42
24:1I:413:LYS:HA	24:1I:416:ARG:HD2	2.02	0.42
24:1K:729:TYR:CE1	24:1K:733:MET:HE3	2.55	0.42
25:1O:705:ASP:N	25:1O:705:ASP:OD1	2.51	0.42
26:1Q:245:PHE:O	26:1Q:249:ASP:HB2	2.20	0.42
26:1Q:687:LEU:HD22	26:1Q:691:GLU:HB3	2.02	0.42
27:1S:840:ARG:HA	27:1S:840:ARG:HD3	1.91	0.42
28:1d:184:ILE:HD12	28:1d:184:ILE:HA	1.87	0.42
28:1g:190:GLU:HB3	28:1g:191:TYR:CE1	2.55	0.42
31:1q:221:TYR:CG	22:1w:231:ILE:HD12	2.55	0.42
31:1r:139:ALA:HA	31:1r:142:LYS:HD2	2.02	0.42
22:1y:175:SER:O	22:1y:178:LYS:HG3	2.20	0.42
34:2L:99:ASP:HA	34:2L:103:LYS:HE2	2.01	0.42
35:2O:19:ASN:O	35:2O:21:ARG:NH2	2.53	0.42
38:2U:116:ARG:O	38:2U:120:ARG:HD3	2.20	0.42
38:2U:151:PRO:HA	38:2U:152:PRO:HD3	1.93	0.42
40:2Z:35:VAL:HG22	40:2Z:79:TYR:CE2	2.54	0.42
41:2l:290:LYS:O	41:2l:293:GLU:HG3	2.19	0.42
44:2w:131:ARG:HG2	44:2w:167:LEU:HD22	2.01	0.42
47:3D:130:ARG:HB3	47:3D:135:HIS:HB3	2.02	0.42
48:3F:43:LYS:O	48:3F:46:LEU:HB3	2.20	0.42
49:3P:356:ILE:HG22	49:3P:361:VAL:O	2.20	0.42
49:3Q:554:VAL:C	49:3Q:555:LYS:HD3	2.45	0.42
57:3f:107:GLN:O	57:3f:111:MET:HG3	2.20	0.42
57:3i:99:MET:HE1	57:3i:107:GLN:CD	2.45	0.42
60:3r:141:PHE:O	60:3r:144:ARG:HB3	2.20	0.42
64:5D:79:LYS:HA	64:5D:82:VAL:HG12	2.02	0.42
64:5D:93:LYS:O	64:5D:97:LEU:HD23	2.20	0.42
66:5K:59:TRP:HD1	66:5K:60:TYR:N	2.18	0.42
66:5L:241:ASP:OD2	66:5L:245:ARG:HB2	2.19	0.42
1:A:255:VAL:HG11	2:AA:100:ALA:O	2.20	0.42
1:A:330:MET:SD	1:A:349:ILE:HG21	2.60	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:265:ILE:HG22	2:AC:380:ASN:ND2	2.35	0.42
1:AD:145:SER:HB2	1:AD:188:SER:OG	2.19	0.42
1:AD:236:VAL:HA	1:AD:316:LEU:HD12	2.01	0.42
1:AD:310:TYR:CD1	1:AD:371:ASN:HB2	2.55	0.42
2:AE:252:LEU:HA	2:AE:255:PHE:CE1	2.55	0.42
1:AF:21:TRP:CZ3	1:AF:50:TYR:HB3	2.54	0.42
2:AI:154:LEU:HD13	2:AI:166:LYS:HE2	2.02	0.42
2:AK:251:ASP:H	2:AK:254:GLU:CB	2.33	0.42
1:AN:73:MET:HA	1:AN:76:VAL:HG12	2.00	0.42
1:AN:304:ASP:OD1	1:AN:306:ARG:HB2	2.19	0.42
1:AN:374:ILE:HG21	1:AN:422:TYR:CZ	2.55	0.42
1:B:150:LEU:O	1:B:154:LYS:HG3	2.19	0.42
2:BA:70:LEU:HD22	2:BA:99:ALA:HB2	2.02	0.42
2:BA:118:ALA:O	2:BA:122:ILE:HG12	2.19	0.42
2:BA:133:GLN:HB3	2:BA:252:LEU:HD23	2.02	0.42
2:BG:363:VAL:HG13	2:BG:366:GLY:HA3	2.02	0.42
1:BH:200:MET:HB3	1:BH:268:MET:SD	2.60	0.42
1:BH:203:ASP:HB2	1:BH:301:GLN:HA	2.02	0.42
2:BK:254:GLU:OE1	1:BL:98:GLY:HA2	2.20	0.42
2:BM:70:LEU:HD22	2:BM:110:ILE:HG22	2.01	0.42
1:BN:3:GLU:O	1:BN:131:GLN:HG3	2.20	0.42
1:BN:213:ARG:HG3	1:BN:214:THR:N	2.35	0.42
2:C:238:LEU:HA	2:C:318:MET:HG3	2.02	0.42
2:C:254:GLU:HG2	1:CA:98:GLY:HA2	2.01	0.42
1:CA:99:ASN:HD22	1:CA:99:ASN:HA	1.74	0.42
2:CB:223:SER:OG	2:CB:224:TYR:N	2.53	0.42
1:CC:235:GLY:HA3	1:CC:366:THR:HG21	2.01	0.42
1:CC:271:ALA:HB3	1:CC:365:VAL:HG12	2.02	0.42
1:CG:350:LYS:HD2	2:CH:179:THR:O	2.20	0.42
2:CH:335:ILE:HD13	2:CH:338:LYS:NZ	2.35	0.42
1:CK:113:ILE:O	1:CK:117:LEU:HG	2.19	0.42
1:CK:175:VAL:O	1:CK:175:VAL:HG12	2.20	0.42
2:CL:398:MET:HE3	2:CL:398:MET:HB2	1.88	0.42
2:D:275:VAL:HG13	2:D:275:VAL:O	2.20	0.42
2:DB:246:GLY:HA3	2:DB:356:ASN:HA	2.01	0.42
2:DB:262:TYR:HB2	2:DB:265:ILE:HG12	2.01	0.42
1:DC:32:PRO:HA	1:DC:81:TYR:HD1	1.84	0.42
2:DD:269:LEU:HD13	2:DD:305:CYS:HB2	2.01	0.42
2:DF:105:ARG:HG2	2:DF:110:ILE:HD12	2.02	0.42
2:DF:393:HIS:CE1	2:DF:397:LEU:HD11	2.54	0.42
1:DG:76:VAL:O	1:DG:82:GLY:HA3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DJ:248:LEU:HB2	2:DJ:355:ILE:H	1.84	0.42
2:DJ:297:GLU:CD	2:DJ:298:PRO:HD2	2.45	0.42
1:DK:135:LEU:HD23	1:DK:152:ILE:HD11	2.02	0.42
1:EB:260:PHE:HB2	1:EB:263:LEU:HD12	2.02	0.42
2:EE:119:LEU:HB3	63:4I:296:TYR:CZ	2.55	0.42
2:EE:203:MET:HE2	2:EE:267:PHE:HB3	2.02	0.42
2:EG:209:ILE:HG21	2:EG:227:VAL:HG13	2.02	0.42
2:EG:251:ASP:H	2:EG:254:GLU:CB	2.32	0.42
2:EI:288:VAL:HA	2:EI:291:ILE:HG12	2.02	0.42
1:EL:111:GLU:OE1	1:EL:111:GLU:N	2.53	0.42
2:FC:110:ILE:O	2:FC:113:GLU:HG2	2.20	0.42
1:FD:19:LYS:HZ3	1:FD:227:HIS:HB2	1.85	0.42
2:FE:142:GLY:CA	2:FE:183:GLU:HG3	2.50	0.42
2:FE:405:VAL:HG13	2:FE:418:PHE:CE2	2.55	0.42
1:FF:131:GLN:NE2	1:FF:163:ILE:HD13	2.34	0.42
1:FF:323:THR:O	1:FF:326:VAL:HG12	2.20	0.42
2:FK:2:ARG:HB2	2:FK:2:ARG:NH1	2.35	0.42
2:FK:187:CYS:SG	2:FK:391:ILE:HG12	2.60	0.42
2:FK:319:TYR:HB2	2:FK:323:VAL:HG21	2.02	0.42
1:FL:119:VAL:O	1:FL:122:LYS:HB2	2.19	0.42
2:GA:199:ASP:HB3	2:GA:256:GLN:HE21	1.85	0.42
1:GB:64:VAL:HG12	1:GB:66:MET:HE3	2.01	0.42
2:GC:218:ASP:HB2	59:4O:149:TYR:CZ	2.55	0.42
2:GC:296:PHE:HD2	2:GC:341:ILE:HG13	1.84	0.42
1:GD:100:ASN:HB3	1:GD:103:LYS:HB2	2.02	0.42
2:GE:22:GLU:OE2	36:2Q:285:TYR:HB3	2.20	0.42
1:GF:221:THR:HG22	1:GF:222:PHE:N	2.34	0.42
1:GF:318:ARG:HH21	1:GF:358:PRO:HB3	1.84	0.42
1:GH:3:GLU:N	1:GH:3:GLU:OE1	2.52	0.42
2:GI:21:TRP:CZ2	2:GI:65:CYS:HB3	2.54	0.42
2:GI:385:ALA:HB1	2:GI:429:GLU:OE2	2.19	0.42
2:GK:121:ARG:HA	2:GK:121:ARG:HD3	1.83	0.42
2:GK:335:ILE:HD13	2:GK:338:LYS:NZ	2.35	0.42
1:GL:421:GLU:HA	1:GL:424:GLN:HE21	1.84	0.42
1:H:252:LYS:NZ	2:HA:101:ASN:OD1	2.22	0.42
1:H:280:GLN:HE21	17:0m:122:ASP:HB3	1.85	0.42
2:HA:47:ASP:N	2:HA:47:ASP:OD1	2.51	0.42
2:HA:212:LEU:O	2:HA:216:SER:OG	2.31	0.42
2:HC:301:MET:HG2	2:HC:303:THR:H	1.84	0.42
1:HD:252:LYS:HZ1	2:HE:101:ASN:CG	2.27	0.42
2:HE:176:GLN:HB2	2:HE:207:GLU:OE2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HF:97:ALA:O	1:HF:103:LYS:HD2	2.20	0.42
1:HF:292:GLN:HE22	1:HF:298:ASN:CG	2.27	0.42
1:HF:385:PHE:HZ	1:HF:408:PHE:HD2	1.66	0.42
2:HG:223:SER:OG	2:HG:224:TYR:N	2.48	0.42
2:HG:323:VAL:HG22	2:HG:373:ARG:HD3	2.01	0.42
1:HH:324:LYS:HE3	2:HI:222:PRO:HB2	2.02	0.42
1:HJ:19:LYS:HD2	1:HJ:226:ASN:HB2	2.02	0.42
1:HJ:326:VAL:HG11	1:HJ:353:ILE:HD11	2.01	0.42
2:HK:34:GLY:O	2:HK:60:LYS:HG3	2.19	0.42
2:HK:311:LYS:H	2:HK:382:THR:HB	1.85	0.42
2:HM:318:MET:HB2	2:HM:376:CYS:HB3	2.01	0.42
1:I:304:ASP:OD2	1:I:306:ARG:HB3	2.19	0.42
2:IA:177:VAL:HG12	2:IA:207:GLU:HG3	2.02	0.42
1:ID:174:ARG:HH12	1:ID:380:ARG:HH11	1.65	0.42
2:IE:70:LEU:HD22	2:IE:110:ILE:HG22	2.02	0.42
2:IE:274:PRO:HD3	2:IE:374:ALA:HA	2.02	0.42
1:IF:37:GLN:HG2	11:0U:256:LYS:NZ	2.30	0.42
1:IH:28:HIS:HA	1:IH:43:GLN:HG2	2.01	0.42
2:II:102:ASN:HB3	2:II:105:ARG:HB3	2.02	0.42
2:II:209:ILE:HD11	2:II:302:LEU:HB3	2.01	0.42
2:II:253:THR:HA	2:II:256:GLN:HB2	2.01	0.42
1:IL:97:ALA:HB2	1:IL:143:THR:HB	2.01	0.42
1:IL:183:TYR:HE2	1:IL:394:PHE:HB2	1.85	0.42
1:IL:363:MET:HE2	1:IL:363:MET:HB3	1.80	0.42
2:IM:127:ASP:OD1	2:IM:128:ASN:N	2.52	0.42
2:IM:258:ASN:HD22	2:IM:352:LYS:HG3	1.84	0.42
1:JA:156:ARG:O	1:JA:156:ARG:HD3	2.19	0.42
1:JA:175:VAL:O	1:JA:175:VAL:HG12	2.20	0.42
1:JA:320:ARG:NH2	15:0f:47:ASN:OD1	2.53	0.42
1:JC:3:GLU:HA	1:JC:49:VAL:HA	2.02	0.42
1:JC:178:THR:HB	1:JC:181:GLU:HB2	2.00	0.42
1:JC:347:ASN:HD21	2:JD:178:SER:C	2.26	0.42
2:JD:90:GLU:HG3	2:JD:91:GLN:N	2.35	0.42
2:JF:11:GLN:HE21	2:JF:15:GLN:HE22	1.67	0.42
1:JG:105:HIS:HD2	1:JG:106:TYR:CE1	2.38	0.42
2:JH:60:LYS:HE3	2:KH:283:HIS:HD2	1.84	0.42
2:JH:203:MET:HE1	2:JH:267:PHE:HD2	1.84	0.42
2:JH:324:VAL:HB	2:JH:327:ASP:OD2	2.20	0.42
2:JH:352:LYS:NZ	1:JI:178:THR:HG22	2.35	0.42
2:JH:431:ASP:OD1	2:JH:432:TYR:N	2.53	0.42
2:JJ:316:CYS:HA	2:JJ:352:LYS:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JL:138:PHE:CE2	2:JL:169:TYR:HD2	2.37	0.42
1:JM:255:VAL:HG11	2:JN:100:ALA:O	2.20	0.42
1:JM:284:LEU:CD2	1:JM:363:MET:HB3	2.48	0.42
1:JM:330:MET:O	1:JM:333:VAL:HG12	2.19	0.42
2:JN:107:HIS:HD2	2:JN:108:TYR:CE2	2.37	0.42
2:K:83:TYR:HB3	2:K:86:LEU:HB3	2.02	0.42
1:KI:386:THR:O	1:KI:390:ARG:HG3	2.20	0.42
2:KN:39:ASP:OD1	2:KN:40:LYS:N	2.52	0.42
2:KN:246:GLY:H	2:KN:249:ASN:HD21	1.67	0.42
2:L:251:ASP:H	2:L:254:GLU:CB	2.27	0.42
1:LC:37:GLN:NE2	29:1k:174:ASN:O	2.53	0.42
1:LC:60:VAL:HG22	1:MB:281:TYR:CD1	2.55	0.42
1:LC:177:ASP:OD2	69:LC:500:GDP:H3'	2.20	0.42
1:LE:164:MET:HB2	1:LE:197:ASP:H	1.83	0.42
1:LE:233:MET:O	1:LE:236:VAL:HG12	2.20	0.42
1:LI:103:LYS:HG3	1:LI:401:GLU:OE2	2.20	0.42
1:LI:185:THR:O	1:LI:189:VAL:HG23	2.19	0.42
2:LJ:3:GLU:HG2	2:LJ:64:ARG:CZ	2.50	0.42
2:LJ:50:ASN:HA	2:LJ:53:PHE:O	2.20	0.42
2:LJ:311:LYS:NZ	22:0z:61:THR:HB	2.35	0.42
1:LK:229:VAL:HG12	1:LK:300:MET:HE1	2.02	0.42
1:M:164:MET:HE2	1:M:164:MET:HB2	1.79	0.42
1:M:362:LYS:NZ	23:1A:261:LEU:HB3	2.35	0.42
2:MA:27:GLU:OE1	2:MA:243:ARG:NH2	2.53	0.42
2:MA:265:ILE:HG21	2:MA:313:MET:HE1	2.02	0.42
2:MA:384:ILE:HG22	2:MA:388:PHE:HD2	1.84	0.42
2:MA:422:ARG:HA	2:MA:422:ARG:HD2	1.85	0.42
1:MD:19:LYS:HB2	1:MD:19:LYS:HE3	1.93	0.42
2:ME:230:LEU:HD21	2:ME:368:LEU:HD21	2.01	0.42
2:ME:293:ASN:O	2:ME:297:GLU:HG2	2.20	0.42
2:MG:267:PHE:N	2:MG:432:TYR:OH	2.49	0.42
1:MH:246:LEU:HB3	1:MH:353:ILE:N	2.35	0.42
1:MH:273:LEU:H	1:MH:292:GLN:NE2	2.18	0.42
2:MI:142:GLY:CA	2:MI:183:GLU:HG3	2.50	0.42
2:MI:386:GLU:HG2	2:MI:390:ARG:HH12	1.85	0.42
1:MJ:324:LYS:HG3	2:MK:221:ARG:HH22	1.85	0.42
2:MK:251:ASP:O	2:MK:254:GLU:HB3	2.19	0.42
2:MK:337:THR:HG22	6:0A:84:ASN:HB2	2.01	0.42
1:ML:385:PHE:CE2	1:ML:412:GLU:HB2	2.55	0.42
1:MN:345:ILE:HG23	1:MN:348:ASN:ND2	2.35	0.42
1:N:347:ASN:O	2:NA:181:VAL:HG23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NC:5:ILE:HD12	2:NC:125:LEU:HG	2.02	0.42
2:NC:127:ASP:OD1	2:NC:128:ASN:N	2.53	0.42
2:NC:219:ILE:HG13	2:NC:222:PRO:HG3	2.01	0.42
2:NE:102:ASN:HD21	2:NE:411:GLU:HG3	1.85	0.42
2:NE:155:GLU:HG2	2:NE:197:HIS:CD2	2.55	0.42
2:NE:195:LEU:HD21	2:NE:264:ARG:HH21	1.83	0.42
1:NF:318:ARG:HB3	1:NF:357:PRO:HA	2.01	0.42
2:NG:40:LYS:HA	2:NG:40:LYS:HD2	1.89	0.42
1:NH:101:TRP:CD1	1:NH:146:GLY:HA2	2.55	0.42
2:NI:170:THR:HG21	2:NI:194:LEU:HD21	2.02	0.42
2:NI:220:GLU:C	2:NI:222:PRO:HD3	2.45	0.42
1:NL:424:GLN:HA	1:NL:427:ASP:OD1	2.19	0.42
2:NM:222:PRO:HB2	2:NM:226:ASN:ND2	2.35	0.42
1:O:371:ASN:ND2	1:O:373:CYS:SG	2.93	0.42
1:OB:324:LYS:HZ1	2:OC:222:PRO:N	2.17	0.42
2:OC:272:TYR:HD1	2:OC:376:CYS:HB2	1.84	0.42
1:OD:172:SER:HA	1:OD:380:ARG:NH2	2.35	0.42
1:OF:67:ASP:OD1	1:OF:68:LEU:N	2.52	0.42
1:OF:345:ILE:HA	2:OG:398:MET:CE	2.49	0.42
1:OH:229:VAL:HG22	1:OH:300:MET:HE1	2.01	0.42
1:OH:312:THR:HG21	2:OI:404:PHE:HZ	1.84	0.42
2:OI:250:VAL:HG23	2:OI:254:GLU:HB3	2.01	0.42
2:OI:319:TYR:CG	2:OI:323:VAL:HG11	2.55	0.42
2:OI:364:PRO:HG2	28:1h:90:LEU:HD22	2.02	0.42
1:OJ:225:LEU:O	1:OJ:229:VAL:HG23	2.20	0.42
1:OJ:238:CYS:SG	1:OJ:239:CYS:N	2.93	0.42
1:OJ:246:LEU:HD13	2:OK:179:THR:HG21	2.01	0.42
1:OJ:345:ILE:HB	1:OJ:348:ASN:ND2	2.35	0.42
1:OJ:350:LYS:HD3	2:OK:180:ALA:HA	2.01	0.42
2:OK:282:TYR:CD2	41:2o:190:TRP:CZ3	3.06	0.42
2:OK:363:VAL:HG23	2:OK:366:GLY:HA3	2.02	0.42
2:OM:217:LEU:HA	2:OM:277:SER:HB2	2.01	0.42
2:OM:238:LEU:HD11	2:OM:378:ILE:CG1	2.50	0.42
1:P:42:LEU:HD12	1:P:45:GLU:OE2	2.19	0.42
2:PA:56:THR:HA	2:Q:285:GLN:OE1	2.20	0.42
2:PA:102:ASN:HB3	2:PA:105:ARG:HG2	2.01	0.42
2:PC:306:ASP:OD2	2:PC:308:ARG:HB2	2.20	0.42
2:PC:328:VAL:O	2:PC:332:ILE:HG12	2.20	0.42
1:PD:110:ALA:O	1:PD:113:ILE:HG22	2.20	0.42
1:PD:226:ASN:OD1	69:PD:500:GDP:N1	2.45	0.42
1:PH:300:MET:H	1:PH:300:MET:HG2	1.69	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PH:309:ARG:NH2	1:PH:343:GLU:OE1	2.52	0.42
2:PI:27:GLU:OE1	2:PI:243:ARG:NH1	2.39	0.42
1:PL:170:ILE:HG12	1:PL:201:CYS:SG	2.60	0.42
1:PL:170:ILE:HD11	1:PL:377:MET:SD	2.59	0.42
2:QD:195:LEU:HD22	2:QD:267:PHE:HZ	1.84	0.42
1:QE:8:GLN:OE1	1:QE:17:GLY:HA3	2.20	0.42
1:QE:346:PRO:HD2	2:QF:398:MET:HE3	2.01	0.42
2:QF:69:ASP:OD2	2:QF:70:LEU:N	2.53	0.42
1:QG:309:ARG:HD3	1:QG:426:GLN:HG3	2.01	0.42
2:QH:8:HIS:HB3	2:QH:13:GLY:C	2.45	0.42
2:QL:172:TYR:OH	2:QL:194:LEU:HD23	2.18	0.42
2:R:47:ASP:OD1	2:R:47:ASP:N	2.46	0.42
1:RC:145:SER:O	1:RC:149:THR:HG23	2.20	0.42
2:RD:99:ALA:HA	2:RD:110:ILE:HD11	2.01	0.42
1:RE:245:GLN:OE1	1:RE:323:THR:OG1	2.37	0.42
2:RF:20:CYS:SG	2:RF:235:VAL:HG11	2.60	0.42
2:RF:251:ASP:N	2:RF:254:GLU:HB3	2.34	0.42
2:RF:258:ASN:ND2	1:RG:178:THR:HG23	2.34	0.42
1:RG:16:ILE:HD11	1:RG:229:VAL:HG11	2.00	0.42
2:RH:367:ASP:HA	41:2e:262:ARG:HH12	1.84	0.42
2:RJ:188:VAL:HG12	2:RJ:421:ALA:HB1	2.02	0.42
2:RJ:251:ASP:H	2:RJ:254:GLU:CG	2.32	0.42
2:RL:196:GLU:CB	57:3i:122:ARG:HH22	2.25	0.42
2:SA:123:ARG:O	2:SA:123:ARG:HD3	2.20	0.42
1:SB:62:ARG:HG3	1:SB:123:GLU:OE2	2.20	0.42
2:SC:23:LEU:O	2:SC:27:GLU:OE1	2.37	0.42
2:SE:237:SER:HA	2:SE:320:ARG:HD2	2.02	0.42
1:SH:323:THR:HG21	2:SI:224:TYR:CZ	2.54	0.42
1:SJ:273:LEU:HB2	1:SJ:292:GLN:OE1	2.19	0.42
2:SK:201:ALA:HB3	2:SK:267:PHE:CD1	2.54	0.42
2:SK:305:CYS:HB3	2:SK:387:VAL:HG13	2.02	0.42
2:TA:167:LEU:HD12	2:TA:169:TYR:HE1	1.85	0.42
2:TA:301:MET:HG2	2:TA:303:THR:HG22	2.02	0.42
1:TB:375:GLN:OE1	1:TB:379:ARG:NH2	2.53	0.42
1:TD:21:TRP:O	1:TD:25:SER:OG	2.25	0.42
1:TD:143:THR:OG1	69:TD:500:GDP:O2B	2.30	0.42
1:TF:208:TYR:CE1	1:TF:225:LEU:HD11	2.54	0.42
2:TG:138:PHE:HE2	2:TG:235:VAL:HG21	1.84	0.42
2:TG:212:LEU:HD21	2:TG:275:VAL:HG21	2.01	0.42
2:TG:251:ASP:N	2:TG:254:GLU:HB3	2.32	0.42
1:TJ:34:GLY:HA3	1:TJ:58:ARG:HG3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TJ:113:ILE:HA	1:TJ:116:VAL:HG12	2.01	0.42
1:TJ:198:GLU:HG3	1:TJ:266:PHE:CE2	2.47	0.42
2:TK:301:MET:HE1	2:TK:307:PRO:HD3	2.00	0.42
1:TL:174:ARG:HB2	1:TL:205:GLU:OE2	2.20	0.42
1:U:36:TYR:OH	1:U:40:SER:O	2.37	0.42
2:UA:316:CYS:HB3	2:UA:378:ILE:HG22	2.02	0.42
2:UA:326:LYS:HD2	1:UB:220:PRO:HD2	2.02	0.42
2:UC:50:ASN:O	2:UC:50:ASN:ND2	2.51	0.42
2:UC:84:ARG:HH21	2:UC:85:GLN:HE22	1.68	0.42
2:UE:54:SER:HB3	2:UE:64:ARG:NH1	2.35	0.42
1:UF:91:ILE:HG22	1:UF:112:LEU:HD21	2.02	0.42
1:UF:156:ARG:HH22	1:UF:197:ASP:CG	2.27	0.42
1:UF:405:GLU:O	1:UF:409:THR:HG23	2.20	0.42
1:UJ:267:MET:HG2	1:UJ:301:GLN:HB3	2.02	0.42
1:UJ:350:LYS:HA	2:UK:179:THR:O	2.20	0.42
1:UL:166:THR:O	1:UL:200:MET:HG2	2.20	0.42
1:UL:316:LEU:HB2	1:UL:366:THR:HG22	2.00	0.42
1:V:144:GLY:N	69:V:500:GDP:O2B	2.44	0.42
2:VA:60:LYS:NZ	2:WA:283:HIS:CD2	2.88	0.42
1:VB:86:ARG:HG3	1:WB:281:TYR:HB3	2.01	0.42
1:VB:300:MET:H	1:VB:300:MET:HG2	1.74	0.42
1:VD:164:MET:HB2	1:VD:196:SER:HA	2.02	0.42
2:VI:21:TRP:CZ2	2:VI:65:CYS:HB3	2.55	0.42
2:VI:68:LEU:HG	2:VI:93:VAL:HB	2.01	0.42
1:VJ:20:PHE:CD1	1:VJ:233:MET:HE2	2.54	0.42
1:VJ:130:LEU:HG	1:VJ:132:GLY:N	2.34	0.42
1:VJ:192:LEU:O	1:VJ:196:SER:HB3	2.20	0.42
2:VK:6:CYS:O	2:VK:65:CYS:HA	2.20	0.42
1:VL:172:SER:OG	1:VL:175:VAL:O	2.31	0.42
2:VM:214:ARG:HG2	2:VM:222:PRO:HG3	2.02	0.42
1:W:130:LEU:HD21	1:W:133:PHE:CE1	2.55	0.42
1:W:187:LEU:HA	1:W:190:HIS:CE1	2.55	0.42
1:W:226:ASN:OD1	69:W:500:GDP:N2	2.43	0.42
2:WA:50:ASN:OD1	2:WA:50:ASN:N	2.53	0.42
2:WA:271:SER:OG	2:WA:295:VAL:HG13	2.19	0.42
1:WB:207:LEU:HD11	1:WB:300:MET:HE3	2.02	0.42
1:WB:323:THR:HG21	2:WC:224:TYR:CZ	2.55	0.42
2:WC:270:THR:HA	2:WC:377:MET:O	2.19	0.42
1:WD:66:MET:HE1	1:WD:151:LEU:HD22	2.01	0.42
1:WD:97:ALA:O	1:WD:103:LYS:HD2	2.20	0.42
1:WD:171:PRO:HB2	1:WD:181:GLU:OE1	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:WD:246:LEU:HD11	2:WE:179:THR:HG21	2.01	0.42
1:WD:268:MET:SD	1:WD:268:MET:N	2.93	0.42
1:WF:252:LYS:NZ	71:WG:501:GTP:O1B	2.53	0.42
2:WI:223:SER:OG	2:WI:224:TYR:N	2.53	0.42
1:WJ:31:ASP:OD2	9:0N:245:GLY:N	2.29	0.42
1:WL:208:TYR:CE1	1:WL:225:LEU:HD21	2.54	0.42
2:WM:225:THR:O	2:WM:229:ARG:HG3	2.20	0.42
3:XA:85:LYS:O	3:XA:107:ASN:ND2	2.52	0.42
3:XA:134:PHE:HD2	3:XA:136:LEU:HD22	1.85	0.42
3:XA:173:ALA:HB3	3:XA:176:GLU:HG3	2.01	0.42
3:XD:27:SER:HA	3:XD:59:ILE:HG22	2.01	0.42
3:XD:125:LEU:HD21	3:XD:132:ILE:HD11	2.01	0.42
4:XM:153:LEU:HD22	4:XM:158:TYR:CE2	2.55	0.42
4:XM:200:ILE:HG13	4:XM:239:TYR:CG	2.55	0.42
5:XP:80:ILE:HG12	32:2C:74:ARG:CG	2.50	0.42
8:0G:246:ARG:HA	8:0G:246:ARG:HD2	1.78	0.42
8:0J:267:ARG:NH1	8:0J:268:GLU:HG2	2.34	0.42
9:0L:38:ALA:HB2	9:0L:67:LEU:HD11	2.01	0.42
9:0L:270:LEU:HD23	9:0L:277:VAL:HA	2.01	0.42
9:0L:596:THR:H	9:0L:611:GLY:HA2	1.85	0.42
9:0M:332:PHE:CE1	9:0M:340:PHE:HB3	2.55	0.42
9:0N:66:CYS:SG	9:0N:114:LEU:HG	2.59	0.42
9:0N:512:ALA:HB2	9:0N:555:SER:HA	2.01	0.42
9:0N:522:LEU:HB2	9:0N:534:TRP:HB2	2.01	0.42
10:0S:291:ILE:O	10:0S:295:LEU:HD23	2.19	0.42
11:0U:15:ASP:OD1	11:0U:18:ALA:HB3	2.19	0.42
11:0U:192:THR:OG1	11:0U:228:SER:O	2.25	0.42
14:0c:58:LYS:NZ	14:0c:71:TYR:HA	2.35	0.42
16:0k:294:LYS:HA	16:0k:294:LYS:HD2	1.66	0.42
16:0k:393:GLN:O	16:0k:397:GLU:OE1	2.37	0.42
16:0k:580:LEU:HB2	16:0k:581:PRO:HD2	2.00	0.42
18:0p:235:MET:HA	18:0p:238:LYS:HD2	2.02	0.42
19:0r:205:GLN:O	19:0r:209:LEU:HD23	2.19	0.42
25:1O:626:ASN:HD21	25:1O:664:VAL:HG22	1.85	0.42
31:1q:231:VAL:HG11	31:1q:245:LEU:HD21	2.02	0.42
31:1t:156:SER:O	31:1t:159:ARG:HD3	2.20	0.42
22:1x:224:ARG:HA	22:1x:224:ARG:HD3	1.77	0.42
22:1y:146:ASP:OD2	33:2I:221:GLU:OE1	2.36	0.42
32:2B:49:PRO:O	32:2B:53:MET:HG2	2.20	0.42
32:2C:226:CYS:C	32:2C:228:TYR:H	2.28	0.42
33:2G:51:SER:OG	33:2G:53:LYS:HE3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:2G:190:PRO:HB2	33:2G:260:LEU:HB2	2.01	0.42
33:2H:255:ASP:HB2	33:2H:261:VAL:HG13	2.02	0.42
34:2L:87:ARG:HG2	34:2L:87:ARG:NH1	2.34	0.42
39:2X:35:LEU:HD21	41:2h:173:LEU:HD11	2.02	0.42
40:2Z:119:ARG:HE	40:2Z:259:ASP:HA	1.84	0.42
41:2e:472:MET:HG3	41:2e:476:MET:HE1	2.01	0.42
41:2l:244:LYS:O	41:2l:248:ASN:HB2	2.20	0.42
41:2o:329:ALA:O	41:2o:333:GLN:OE1	2.37	0.42
41:2p:460:ASP:O	41:2p:463:ARG:HD3	2.19	0.42
44:2v:382:TYR:HB3	44:2v:395:PHE:HZ	1.85	0.42
44:2w:180:VAL:HG11	44:2w:295:VAL:HG21	2.01	0.42
47:3D:10:ARG:HB2	47:3D:13:GLU:OE1	2.19	0.42
47:3D:315:ASP:OD1	47:3D:316:LYS:N	2.52	0.42
57:3h:100:ASP:O	57:3h:104:ILE:HG12	2.20	0.42
62:4A:430:PRO:O	62:4A:434:GLN:HG2	2.20	0.42
64:5C:224:LEU:O	64:5C:228:ARG:HG2	2.19	0.42
64:5C:238:LEU:HA	64:5C:238:LEU:HD23	1.88	0.42
67:5O:28:LEU:HD23	67:5O:50:PHE:HD2	1.84	0.42
1:A:139:LEU:HA	1:A:145:SER:HB3	2.01	0.42
2:AA:206:ASN:OD1	71:AA:501:GTP:O2'	2.26	0.42
1:AB:165:MET:HE2	1:AB:200:MET:HE3	2.02	0.42
1:AB:344:TRP:HZ2	1:AB:425:TYR:HB3	1.84	0.42
2:AC:240:ALA:HB2	2:AC:320:ARG:NH1	2.35	0.42
1:AD:2:ARG:HH11	2:AE:71:GLU:HB2	1.85	0.42
2:AE:27:GLU:O	2:AE:44:VAL:HG11	2.20	0.42
2:AE:308:ARG:HE	2:AE:308:ARG:HB2	1.73	0.42
2:AE:383:ALA:O	2:AE:386:GLU:HG2	2.20	0.42
1:AF:325:GLU:OE1	2:AG:221:ARG:HG2	2.20	0.42
1:AH:284:LEU:HG	1:AH:363:MET:HE3	2.02	0.42
1:AJ:149:THR:HA	1:AJ:152:ILE:HG22	2.01	0.42
2:AK:408:TYR:HB3	2:AK:413:MET:SD	2.60	0.42
2:AM:248:LEU:HB2	2:AM:354:GLY:HA2	2.01	0.42
1:AN:179:VAL:HG23	1:AN:180:VAL:HG13	2.02	0.42
2:BA:33:ASP:OD2	2:BA:34:GLY:N	2.53	0.42
1:BB:48:ASN:HA	1:BB:51:PHE:O	2.20	0.42
1:BB:322:SER:HA	2:BC:223:SER:HB2	2.00	0.42
1:BF:134:GLN:HA	1:BF:165:MET:HB3	2.01	0.42
1:BF:251:ARG:O	1:BF:255:VAL:HG12	2.20	0.42
2:BG:169:TYR:HE2	2:BG:235:VAL:HG22	1.85	0.42
2:BG:310:GLY:HA3	2:BG:383:ALA:HB2	2.02	0.42
1:BH:395:LEU:O	1:BH:399:THR:HG23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BI:26:LEU:CD1	2:BI:364:PRO:HD2	2.50	0.42
2:BK:319:TYR:HB3	2:BK:323:VAL:HG21	2.02	0.42
1:BL:144:GLY:N	69:BL:500:GDP:O2B	2.45	0.42
2:BM:122:ILE:HG21	2:BM:157:LEU:HD21	2.02	0.42
2:BM:204:LEU:HD13	2:BM:231:ILE:HD12	2.02	0.42
2:BM:237:SER:HA	2:BM:320:ARG:NE	2.35	0.42
1:BN:167:PHE:CG	1:BN:233:MET:HE2	2.55	0.42
1:CA:246:LEU:HD11	2:CB:179:THR:HG21	2.01	0.42
2:CB:335:ILE:HD13	2:CB:335:ILE:HA	1.94	0.42
1:CC:316:LEU:HB2	1:CC:366:THR:OG1	2.20	0.42
2:CH:75:VAL:HG11	2:CH:94:SER:HB2	2.02	0.42
2:CH:311:LYS:NZ	2:CH:344:VAL:HA	2.34	0.42
1:CM:213:ARG:HH11	1:CM:213:ARG:HG2	1.85	0.42
2:DB:326:LYS:HD3	1:DC:208:TYR:CG	2.54	0.42
2:DB:399:TYR:OH	2:DB:415:GLU:OE2	2.24	0.42
2:DD:346:TRP:CZ3	2:DD:347:CYS:HB2	2.55	0.42
1:DE:330:MET:HA	1:DE:333:VAL:HG22	2.02	0.42
2:DF:237:SER:HA	2:DF:320:ARG:HD2	2.02	0.42
1:DG:77:ARG:HA	1:DG:77:ARG:HD2	1.88	0.42
1:DG:282:ARG:NH1	1:DG:284:LEU:HA	2.34	0.42
1:DG:415:MET:O	1:DG:419:VAL:HG23	2.20	0.42
2:DH:391:ILE:HD12	2:DH:391:ILE:HA	1.92	0.42
2:DJ:261:PRO:HB3	1:DK:394:PHE:CE2	2.55	0.42
1:EB:260:PHE:HD2	1:EB:263:LEU:HD12	1.85	0.42
1:EB:295:ASP:OD2	1:EB:297:LYS:HG2	2.20	0.42
1:ED:113:ILE:HG13	1:ED:117:LEU:HD23	2.02	0.42
2:EG:296:PHE:CE1	2:EG:377:MET:HE1	2.55	0.42
1:EH:186:THR:HA	1:EH:415:MET:HE3	2.02	0.42
1:EH:273:LEU:HD23	1:EH:273:LEU:HA	1.90	0.42
2:EI:21:TRP:CZ2	2:EI:65:CYS:HB3	2.55	0.42
2:EI:273:ALA:HB3	2:EI:295:VAL:HG23	2.01	0.42
1:EL:221:THR:O	1:EL:225:LEU:HG	2.20	0.42
2:FA:58:ALA:O	10:0R:256:ARG:NH1	2.53	0.42
2:FA:88:ASN:HB3	2:FA:91:GLN:HG2	2.02	0.42
2:FC:90:GLU:O	2:FC:91:GLN:HG2	2.20	0.42
2:FC:275:VAL:HG23	2:FC:368:LEU:HD11	2.01	0.42
1:FD:156:ARG:HD3	1:FD:156:ARG:HA	1.66	0.42
1:FF:335:ASN:CG	63:4I:266:GLN:HE21	2.27	0.42
2:FG:142:GLY:CA	2:FG:183:GLU:HG3	2.48	0.42
1:FH:66:MET:HB3	1:FH:147:MET:HE2	2.02	0.42
1:FH:190:HIS:HB2	1:FH:414:ASN:ND2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FH:350:LYS:HA	2:FI:179:THR:O	2.20	0.42
2:FI:259:LEU:CD1	2:FI:316:CYS:HB2	2.45	0.42
1:FL:225:LEU:O	1:FL:229:VAL:HG22	2.20	0.42
1:G:30:VAL:HG21	1:G:51:PHE:HE2	1.84	0.42
1:G:239:CYS:SG	1:G:247:ASN:HA	2.60	0.42
2:GC:116:ASP:OD1	2:GC:116:ASP:N	2.53	0.42
1:GD:139:LEU:HD12	1:GD:170:ILE:HD13	2.01	0.42
2:GE:3:GLU:HA	2:GE:51:THR:HA	2.02	0.42
2:GE:138:PHE:HE2	2:GE:235:VAL:HG21	1.84	0.42
1:GH:51:PHE:HB3	1:GH:59:TYR:HB3	2.01	0.42
1:GH:188:SER:O	1:GH:192:LEU:HD23	2.20	0.42
2:GI:402:ARG:HA	2:GI:402:ARG:HD3	1.85	0.42
1:GJ:167:PHE:CZ	1:GJ:233:MET:HG2	2.55	0.42
1:GJ:255:VAL:HG11	2:GK:100:ALA:O	2.20	0.42
1:GL:324:LYS:O	1:GL:328:GLU:OE1	2.38	0.42
1:H:207:LEU:HD22	1:H:300:MET:HB2	2.02	0.42
1:H:233:MET:HA	1:H:233:MET:HE2	2.01	0.42
1:HB:232:VAL:HG21	1:HB:268:MET:SD	2.60	0.42
2:HC:122:ILE:HG21	2:HC:157:LEU:HD21	2.02	0.42
1:HD:323:THR:O	1:HD:326:VAL:HG12	2.20	0.42
2:HE:275:VAL:O	2:HE:275:VAL:HG13	2.20	0.42
2:HE:309:HIS:HB3	2:HE:386:GLU:OE2	2.19	0.42
1:HF:5:VAL:HG21	1:HF:123:GLU:HB3	2.02	0.42
1:HF:19:LYS:HG3	1:HF:226:ASN:HB3	2.02	0.42
1:HF:55:SER:OG	1:IF:282:ARG:O	2.31	0.42
2:HG:268:VAL:HG21	2:HG:378:ILE:HD11	2.02	0.42
2:HG:277:SER:H	2:HG:280:LYS:HZ1	1.68	0.42
1:HH:8:GLN:HG2	1:HH:17:GLY:HA3	2.02	0.42
1:HH:186:THR:HG21	1:HH:385:PHE:CE2	2.55	0.42
1:HH:318:ARG:NE	1:HH:358:PRO:HD3	2.35	0.42
2:HK:275:VAL:O	2:HK:275:VAL:HG13	2.19	0.42
1:I:156:ARG:HD2	1:I:156:ARG:HA	1.76	0.42
1:I:181:GLU:HG2	1:I:182:PRO:HD3	2.01	0.42
1:I:316:LEU:O	1:I:365:VAL:HA	2.19	0.42
1:IB:167:PHE:CE1	1:IB:200:MET:HG2	2.55	0.42
1:IB:330:MET:HE2	1:IB:349:ILE:HG21	2.02	0.42
2:IE:392:ASP:HB3	2:IE:425:LEU:HD23	2.01	0.42
1:IF:317:PHE:HE2	1:IF:330:MET:HE3	1.82	0.42
2:IG:209:ILE:HG21	2:IG:227:VAL:HG23	2.02	0.42
1:IH:211:CYS:HA	1:IH:215:LEU:HB2	2.01	0.42
2:II:90:GLU:O	2:II:91:GLN:HG2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:II:257:THR:HA	1:IJ:397:TRP:CE2	2.55	0.42
2:IK:27:GLU:OE2	2:IK:243:ARG:NH2	2.52	0.42
1:IL:101:TRP:HD1	1:IL:403:MET:HE1	1.85	0.42
2:IM:8:HIS:HE1	2:IM:21:TRP:NE1	2.17	0.42
2:IM:26:LEU:HD23	2:IM:26:LEU:HA	1.90	0.42
2:J:152:LEU:O	2:J:156:ARG:HG2	2.19	0.42
1:JA:2:ARG:HH21	1:JA:240:LEU:HD23	1.85	0.42
1:JA:350:LYS:HG2	2:JB:179:THR:O	2.20	0.42
1:JC:21:TRP:CZ3	1:JC:61:PRO:HB3	2.55	0.42
2:JF:105:ARG:HG3	2:JF:105:ARG:NH1	2.34	0.42
1:JG:355:ASP:OD2	47:3D:153:SER:OG	2.20	0.42
1:JG:375:GLN:HB3	1:JG:422:TYR:CD2	2.55	0.42
1:JI:226:ASN:HA	1:JI:229:VAL:HG22	2.01	0.42
1:JI:413:SER:HB3	60:3s:93:LYS:HE3	2.02	0.42
2:JJ:122:ILE:HD13	2:JJ:157:LEU:HD11	2.00	0.42
2:JN:66:LEU:HD13	2:JN:121:ARG:CG	2.49	0.42
2:JN:179:THR:OG1	71:JN:501:GTP:O3'	2.29	0.42
1:KA:364:SER:OG	1:KA:365:VAL:N	2.53	0.42
2:KD:136:MET:HB3	2:KD:169:TYR:HE1	1.84	0.42
2:KD:203:MET:HA	2:KD:203:MET:HE3	2.02	0.42
1:KE:61:PRO:HD3	1:KE:84:LEU:HG	2.01	0.42
1:KE:267:MET:HB3	1:KE:374:ILE:HD13	2.01	0.42
1:KG:263:LEU:HD11	1:KG:425:TYR:HD2	1.85	0.42
1:KI:144:GLY:N	69:KI:500:GDP:O2B	2.53	0.42
1:KI:332:ASN:HD22	1:KI:336:LYS:HZ3	1.67	0.42
1:KK:26:ASP:OD2	49:3Q:170:LEU:HB3	2.20	0.42
1:KM:252:LYS:HG3	2:KN:100:ALA:HA	2.01	0.42
2:KN:60:LYS:HG2	2:KN:61:HIS:N	2.34	0.42
1:LA:145:SER:O	1:LA:149:THR:HG23	2.19	0.42
2:LB:235:VAL:O	2:LB:239:THR:HG22	2.20	0.42
2:LB:267:PHE:CE2	2:LB:428:LEU:HD21	2.54	0.42
2:LB:308:ARG:HG2	35:2N:169:ILE:HD11	2.02	0.42
1:LC:107:THR:HG21	1:LC:401:GLU:OE1	2.20	0.42
1:LC:172:SER:HB3	1:LC:205:GLU:OE1	2.20	0.42
2:LD:326:LYS:HZ1	1:LE:219:THR:C	2.28	0.42
1:LE:291:GLN:O	1:LE:295:ASP:HB2	2.20	0.42
1:LE:311:LEU:HB2	1:LE:370:ASN:O	2.20	0.42
2:LF:57:GLY:O	23:1A:114:GLU:HG3	2.19	0.42
2:LF:70:LEU:HD12	2:LF:145:THR:HB	2.00	0.42
2:LH:298:PRO:HG2	35:2O:56:GLU:CD	2.45	0.42
2:LH:335:ILE:HD13	2:LH:338:LYS:NZ	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LI:46:ARG:NH2	2:LJ:76:ASP:OD2	2.53	0.42
2:LJ:120:ASP:HA	2:LJ:123:ARG:HH12	1.85	0.42
1:LK:290:THR:HA	1:LK:293:MET:HE2	2.01	0.42
2:LL:33:ASP:HA	2:LL:85:GLN:HB2	2.02	0.42
1:LM:45:GLU:OE1	1:LM:46:ARG:HG2	2.20	0.42
1:LM:121:ARG:O	1:LM:125:GLU:OE1	2.38	0.42
1:LO:42:LEU:HD13	1:LO:356:ILE:HD11	2.02	0.42
1:MB:381:VAL:HG13	1:MB:415:MET:CE	2.50	0.42
2:MC:275:VAL:O	2:MC:275:VAL:HG13	2.20	0.42
1:MD:7:CYS:O	1:MD:135:LEU:HA	2.20	0.42
1:MD:406:MET:H	1:MD:406:MET:HG2	1.62	0.42
1:MF:172:SER:HB3	1:MF:175:VAL:HB	2.01	0.42
1:MF:197:ASP:HA	4:XO:78:GLY:O	2.19	0.42
1:MF:330:MET:HG3	1:MF:351:SER:OG	2.20	0.42
2:MG:18:ASN:O	2:MG:22:GLU:OE1	2.38	0.42
1:MH:285:SER:O	1:MH:289:LEU:HD23	2.20	0.42
2:MI:195:LEU:HA	2:MI:266:HIS:NE2	2.35	0.42
1:MJ:261:PRO:HG3	2:MK:406:HIS:CD2	2.55	0.42
1:MJ:347:ASN:O	2:MK:181:VAL:HG12	2.20	0.42
2:MM:5:ILE:HD13	2:MM:64:ARG:HB3	2.01	0.42
2:MM:122:ILE:HG21	2:MM:157:LEU:HD21	2.01	0.42
2:MM:296:PHE:HZ	2:MM:351:PHE:HE1	1.67	0.42
1:MN:232:VAL:HG21	1:MN:300:MET:HE1	2.00	0.42
1:MN:375:GLN:HB3	1:MN:422:TYR:CB	2.50	0.42
1:N:332:ASN:OD1	1:N:336:LYS:HE2	2.19	0.42
2:NA:212:LEU:HD21	2:NA:275:VAL:HG21	2.01	0.42
1:NB:10:GLY:O	1:NB:14:ASN:ND2	2.45	0.42
1:NB:193:VAL:HA	1:NB:264:HIS:NE2	2.35	0.42
1:NB:202:ILE:HD12	1:NB:229:VAL:HG22	2.01	0.42
1:NB:217:LEU:H	1:NB:217:LEU:HD23	1.85	0.42
1:NF:216:LYS:HB2	1:NF:275:SER:HB3	2.00	0.42
2:NG:223:SER:OG	2:NG:224:TYR:N	2.52	0.42
2:NG:269:LEU:HD13	2:NG:303:THR:HG23	2.01	0.42
2:NG:298:PRO:HB3	2:NG:308:ARG:HH12	1.85	0.42
2:NG:335:ILE:HD13	2:NG:335:ILE:HA	1.91	0.42
2:NI:3:GLU:HA	2:NI:51:THR:HA	2.01	0.42
2:NI:287:SER:OG	2:NI:288:VAL:N	2.53	0.42
2:NI:319:TYR:HD2	2:NI:323:VAL:HG11	1.85	0.42
1:NJ:115:SER:O	1:NJ:119:VAL:HG23	2.20	0.42
1:NJ:148:GLY:O	1:NJ:152:ILE:HG12	2.20	0.42
1:NJ:380:ARG:O	1:NJ:384:GLN:HG3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NL:203:ASP:OD2	1:NL:302:ALA:HB3	2.20	0.42
1:OB:112:LEU:O	1:OB:116:VAL:HG13	2.20	0.42
1:OB:221:THR:OG1	1:OB:222:PHE:N	2.53	0.42
2:OC:84:ARG:NH2	22:1w:255:ASN:HB2	2.34	0.42
1:OD:58:ARG:HH12	1:PD:280:GLN:HE22	1.67	0.42
2:OE:19:ALA:HB2	28:1g:225:TYR:OH	2.20	0.42
2:OE:90:GLU:C	2:OE:92:LEU:N	2.78	0.42
1:OF:356:ILE:HD13	1:OF:356:ILE:HA	1.95	0.42
2:OG:52:PHE:CE1	2:OG:136:MET:HE1	2.55	0.42
2:OG:326:LYS:NZ	1:OH:220:PRO:HD2	2.35	0.42
1:OJ:151:LEU:HG	1:OJ:155:LEU:HD23	2.01	0.42
1:OJ:245:GLN:HB2	1:OJ:353:ILE:HB	2.00	0.42
1:OJ:324:LYS:HD2	2:OK:210:TYR:CG	2.54	0.42
1:OJ:421:GLU:HA	1:OJ:424:GLN:HE21	1.84	0.42
1:OL:293:MET:HG2	1:OL:330:MET:HE3	2.01	0.42
1:OL:334:GLN:HE22	1:OL:349:ILE:HB	1.85	0.42
2:OM:225:THR:HG22	28:1h:149:MET:HE3	2.01	0.42
2:OM:225:THR:O	2:OM:229:ARG:HG2	2.20	0.42
1:P:207:LEU:CB	1:P:225:LEU:HD22	2.47	0.42
2:PA:103:TYR:CD2	2:PA:413:MET:HE1	2.55	0.42
2:PA:167:LEU:HD13	2:PA:200:VAL:HB	2.00	0.42
1:PD:379:ARG:O	1:PD:383:GLU:OE1	2.38	0.42
2:PE:268:VAL:HG13	2:PE:379:ALA:C	2.44	0.42
2:PE:275:VAL:O	2:PE:275:VAL:HG13	2.20	0.42
1:PF:163:ILE:HA	1:PF:197:ASP:OD2	2.19	0.42
2:PG:117:LEU:HD11	2:PG:121:ARG:CZ	2.50	0.42
1:PH:68:LEU:HG	1:PH:147:MET:HE1	2.01	0.42
1:PH:272:PRO:HG2	1:PH:361:LEU:HD22	2.01	0.42
2:PI:31:GLN:HE21	28:1d:266:TYR:HE2	1.68	0.42
2:PI:328:VAL:O	2:PI:332:ILE:HG12	2.20	0.42
1:PJ:166:THR:HG21	1:PJ:192:LEU:HD11	2.02	0.42
2:PK:297:GLU:CD	2:PK:299:ALA:H	2.27	0.42
1:PL:222:PHE:CD1	1:PL:225:LEU:HD12	2.55	0.42
2:Q:6:CYS:HB3	2:Q:8:HIS:HE1	1.85	0.42
2:Q:128:ASN:ND2	2:R:285:GLN:HE21	2.18	0.42
1:QA:131:GLN:HG2	1:QA:240:LEU:HD21	2.00	0.42
1:QA:204:ASN:HD21	69:QA:500:GDP:HN22	1.66	0.42
2:QB:328:VAL:O	2:QB:332:ILE:HG12	2.20	0.42
1:QC:73:MET:HG3	1:QC:92:PHE:HB3	2.01	0.42
2:QD:174:SER:OG	2:QD:207:GLU:HG2	2.19	0.42
1:QE:397:TRP:O	1:QE:401:GLU:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QG:113:ILE:HD11	1:QG:151:LEU:HB2	2.01	0.42
2:QH:1:MET:N	2:QH:3:GLU:OE2	2.43	0.42
2:QH:269:LEU:O	2:QH:378:ILE:HD12	2.20	0.42
1:QI:112:LEU:HD23	1:QI:147:MET:HE1	2.02	0.42
2:QL:85:GLN:OE1	41:2e:137:VAL:HG23	2.19	0.42
2:R:271:SER:HA	2:R:302:LEU:HG	2.02	0.42
1:RC:238:CYS:SG	1:RC:239:CYS:N	2.93	0.42
1:RC:276:ARG:HH21	41:2e:393:ASN:HA	1.85	0.42
2:RD:51:THR:HG21	2:RD:243:ARG:HG3	2.02	0.42
1:RE:99:ASN:C	1:RE:99:ASN:HD22	2.28	0.42
1:RE:244:GLY:HA2	1:RE:355:ASP:CG	2.45	0.42
1:RE:345:ILE:HD12	2:RF:398:MET:HE3	2.02	0.42
2:RH:195:LEU:HA	2:RH:266:HIS:HE1	1.85	0.42
1:RI:21:TRP:CZ2	1:RI:63:ALA:HB2	2.55	0.42
1:RI:91:ILE:HD11	1:RI:119:VAL:HG21	2.01	0.42
1:RI:292:GLN:OE1	1:RI:298:ASN:ND2	2.53	0.42
2:RJ:240:ALA:HB1	2:RJ:356:ASN:HD22	1.85	0.42
2:SA:57:GLY:HA3	21:0w:385:TYR:HE1	1.84	0.42
1:SB:36:TYR:CZ	1:SB:44:LEU:HG	2.54	0.42
1:SB:68:LEU:HD23	1:SB:112:LEU:HD13	2.02	0.42
1:SD:135:LEU:HD23	1:SD:152:ILE:HD11	2.02	0.42
1:SF:377:MET:HE1	1:SF:378:PHE:CE1	2.55	0.42
2:SG:139:HIS:CE1	2:SG:170:THR:HG22	2.55	0.42
1:SH:3:GLU:HA	1:SH:49:VAL:HA	2.02	0.42
1:SH:311:LEU:HB2	1:SH:370:ASN:O	2.20	0.42
2:SI:28:HIS:NE2	2:SI:48:ALA:O	2.53	0.42
2:SI:204:LEU:HD22	2:SI:231:ILE:HD12	2.02	0.42
2:SI:430:LYS:O	2:SI:434:GLU:HG2	2.19	0.42
2:SK:269:LEU:HD21	2:SK:305:CYS:SG	2.60	0.42
2:SK:345:ASP:OD1	2:SK:346:TRP:N	2.52	0.42
1:T:187:LEU:O	1:T:190:HIS:NE2	2.53	0.42
1:T:262:ARG:HG3	1:T:262:ARG:NH1	2.32	0.42
2:TA:3:GLU:HA	2:TA:51:THR:HA	2.01	0.42
2:TA:238:LEU:HD23	2:TA:238:LEU:HA	1.93	0.42
2:TA:275:VAL:HA	2:TA:368:LEU:HD11	2.02	0.42
1:TB:330:MET:HA	1:TB:333:VAL:HG12	2.02	0.42
1:TB:355:ASP:O	21:0w:357:GLN:NE2	2.53	0.42
2:TC:389:ALA:HA	2:TC:392:ASP:OD2	2.20	0.42
1:TH:99:ASN:HD21	1:TH:178:THR:HG23	1.84	0.42
1:TH:290:THR:HA	1:TH:293:MET:HB2	2.02	0.42
2:TI:326:LYS:HG2	1:TJ:208:TYR:CD1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TJ:68:LEU:HB3	1:TJ:96:GLY:HA2	2.02	0.42
2:TK:155:GLU:HG3	2:TK:197:HIS:HE1	1.85	0.42
2:TK:234:VAL:HG21	2:TK:302:LEU:HD11	2.01	0.42
2:TK:294:SER:HA	2:TK:297:GLU:HG2	2.02	0.42
2:UA:194:LEU:O	2:UA:198:THR:HB	2.20	0.42
2:UC:11:GLN:N	71:UC:501:GTP:O2B	2.52	0.42
2:UC:209:ILE:HG12	2:UC:302:LEU:HG	2.00	0.42
1:UD:54:SER:OG	1:UD:55:SER:N	2.53	0.42
2:UE:298:PRO:HB3	2:UE:307:PRO:HD2	2.02	0.42
1:UJ:205:GLU:HB2	1:UJ:302:ALA:HB2	2.02	0.42
1:UJ:334:GLN:HA	1:UJ:341:PHE:CD2	2.55	0.42
1:UL:19:LYS:HZ3	1:UL:227:HIS:HB2	1.83	0.42
1:UL:207:LEU:HB3	1:UL:225:LEU:HD22	2.01	0.42
1:UL:233:MET:HE3	1:UL:233:MET:HA	2.02	0.42
1:V:316:LEU:HB2	1:V:366:THR:CG2	2.50	0.42
2:VA:367:ASP:OD1	2:VA:368:LEU:N	2.53	0.42
1:VB:139:LEU:HD22	1:VB:188:SER:HB2	2.02	0.42
1:VB:225:LEU:O	1:VB:229:VAL:HG23	2.20	0.42
1:VB:268:MET:SD	1:VB:368:ILE:HD13	2.59	0.42
2:VC:395:PHE:CD2	2:VC:422:ARG:HD3	2.54	0.42
1:VD:227:HIS:NE2	53:3W:278:GLU:O	2.53	0.42
2:VE:81:GLY:HA2	30:1o:169:LEU:HD22	2.02	0.42
1:VF:172:SER:OG	1:VF:173:PRO:HD2	2.20	0.42
1:VF:242:PHE:HB2	1:VF:354:CYS:SG	2.60	0.42
2:VG:340:THR:CB	62:4B:269:MET:O	2.68	0.42
1:VH:19:LYS:HG3	1:VH:226:ASN:HB2	2.02	0.42
1:VH:325:GLU:OE1	1:VH:325:GLU:N	2.53	0.42
1:VH:392:LYS:C	1:VH:395:LEU:HD23	2.45	0.42
2:VI:213:THR:HG22	2:VI:219:ILE:HB	2.02	0.42
2:VI:214:ARG:NH2	62:4B:313:LEU:HD22	2.35	0.42
1:VJ:97:ALA:HB2	1:VJ:143:THR:HB	2.02	0.42
1:VJ:246:LEU:HA	2:VK:11:GLN:NE2	2.35	0.42
1:W:200:MET:CE	1:W:368:ILE:HD12	2.44	0.42
2:WA:288:VAL:HA	2:WA:291:ILE:HG12	2.02	0.42
1:WB:178:THR:HB	1:WB:181:GLU:OE2	2.20	0.42
2:WC:6:CYS:O	2:WC:65:CYS:HA	2.20	0.42
1:WD:66:MET:N	1:WD:73:MET:HE1	2.35	0.42
1:WD:350:LYS:HZ2	1:WD:350:LYS:HG2	1.71	0.42
1:WD:379:ARG:HH12	1:WD:423:GLN:HE21	1.68	0.42
1:WF:282:ARG:NH2	1:WF:288:GLU:HB3	2.31	0.42
2:WI:344:VAL:HG11	2:WI:346:TRP:CE2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:WM:343:PHE:HZ	2:WM:351:PHE:CZ	2.37	0.42
3:XC:51:GLY:H	3:XC:159:ASN:HD21	1.67	0.42
3:XC:173:ALA:O	3:XC:177:LEU:HG	2.19	0.42
3:XE:13:ILE:HD13	3:XE:167:PHE:HE1	1.85	0.42
3:XF:86:TYR:HA	3:XF:107:ASN:HD21	1.85	0.42
4:XM:77:TYR:HB2	4:XM:80:ALA:HB3	2.00	0.42
4:XM:134:ILE:HG13	4:XM:176:LEU:HD22	2.00	0.42
4:XQ:90:ARG:HH12	4:XQ:100:LYS:HE3	1.85	0.42
4:XR:285:GLU:OE1	4:XR:303:TYR:OH	2.22	0.42
6:0A:112:MET:SD	6:0A:116:HIS:NE2	2.93	0.42
8:0F:135:ILE:HD12	8:0G:461:GLU:OE1	2.19	0.42
8:0G:429:GLN:O	8:0G:433:GLU:OE1	2.37	0.42
9:0M:186:ARG:O	9:0M:186:ARG:HG3	2.19	0.42
9:0M:199:ARG:NH1	9:0M:199:ARG:HB2	2.35	0.42
9:0M:380:LEU:HD21	9:0M:401:VAL:HG11	2.01	0.42
9:0N:233:VAL:HG23	9:0N:235:LYS:CD	2.49	0.42
9:0N:431:ASP:HB2	9:0N:478:ASP:CG	2.44	0.42
12:0W:100:ILE:HB	12:0W:151:VAL:CG2	2.50	0.42
14:0c:36:LYS:HB3	14:0c:40:LYS:NZ	2.34	0.42
15:0f:229:SER:OG	15:0f:230:ILE:HG12	2.20	0.42
16:0l:784:VAL:HG22	16:0l:811:LEU:HD11	2.01	0.42
16:0k:463:THR:HA	16:0k:475:VAL:HA	2.01	0.42
17:0m:10:ARG:HA	17:0m:10:ARG:HD2	1.93	0.42
17:0m:36:MET:HE3	17:0m:36:MET:HB3	1.89	0.42
17:0n:258:GLN:O	17:0n:262:ILE:HG12	2.20	0.42
17:0o:401:ARG:HA	17:0o:401:ARG:HD3	1.71	0.42
21:0v:57:PHE:HA	21:0v:60:ARG:HG2	2.02	0.42
23:1B:342:ASN:ND2	24:1J:48:ILE:HB	2.35	0.42
23:1E:74:LYS:HG2	23:1E:78:ARG:NH1	2.34	0.42
23:1F:360:ALA:O	23:1F:364:LYS:HG2	2.20	0.42
24:1H:348:VAL:HG12	24:1H:357:LYS:HB2	2.02	0.42
24:1I:28:MET:N	24:1I:28:MET:HE2	2.35	0.42
24:1I:278:TYR:HD1	24:1I:285:ILE:HG12	1.85	0.42
24:1J:492:VAL:H	24:1J:580:GLN:HB2	1.85	0.42
24:1J:640:LYS:O	24:1J:644:GLU:OE1	2.38	0.42
25:1O:684:ARG:O	25:1O:688:LEU:HD23	2.20	0.42
27:1T:742:LEU:HB3	27:1T:752:MET:SD	2.60	0.42
29:1m:210:GLU:HG3	29:1m:212:THR:H	1.85	0.42
22:1w:75:CYS:SG	22:1w:132:HIS:HB2	2.60	0.42
33:2F:20:LEU:HD12	33:2F:52:TRP:CE2	2.55	0.42
40:2Z:15:PHE:O	40:2Z:19:VAL:HB	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:2w:354:LYS:HA	44:2w:357:LYS:HG2	2.01	0.42
45:2z:25:PRO:O	45:2z:31:LEU:HD21	2.19	0.42
46:3B:129:TRP:NE1	46:3B:134:LYS:HE2	2.34	0.42
46:3B:271:ALA:O	46:3B:275:LEU:HB2	2.19	0.42
49:3P:410:GLN:CA	49:3P:410:GLN:HE21	2.33	0.42
57:3g:107:GLN:HG2	57:3g:111:MET:CE	2.49	0.42
57:3h:26:ARG:HD2	57:3h:29:TYR:CD2	2.55	0.42
57:3i:123:ARG:O	57:3i:127:ASN:ND2	2.53	0.42
28:4W:114:ASN:O	28:4W:118:PHE:HB2	2.20	0.42
64:5B:79:LYS:O	64:5B:83:LEU:HB2	2.19	0.42
65:5G:201:GLN:O	65:5G:205:VAL:N	2.29	0.42
66:5L:217:GLY:HA2	66:5L:220:VAL:HG22	2.01	0.42
2:AC:122:ILE:HD13	2:AC:122:ILE:HA	1.87	0.41
2:AC:311:LYS:HE3	2:AC:344:VAL:HA	2.02	0.41
1:AF:345:ILE:HB	1:AF:348:ASN:ND2	2.35	0.41
2:AG:9:ILE:HG22	2:AG:146:GLY:HA2	2.01	0.41
2:AG:229:ARG:HH12	2:AG:363:VAL:HG11	1.85	0.41
1:AH:6:SER:O	1:AH:63:ALA:HA	2.20	0.41
1:AH:183:TYR:HD1	1:AH:385:PHE:CE1	2.38	0.41
1:AH:273:LEU:H	1:AH:292:GLN:HE22	1.66	0.41
1:AH:423:GLN:HB3	5:XP:121:ALA:HB2	2.02	0.41
1:AJ:145:SER:HB2	1:AJ:188:SER:OG	2.19	0.41
2:AM:396:ASP:OD1	2:AM:422:ARG:NH2	2.52	0.41
2:BA:221:ARG:HD3	16:0k:790:ASP:OD2	2.20	0.41
2:BA:258:ASN:HD21	2:BA:352:LYS:HD2	1.85	0.41
2:BA:311:LYS:HZ3	2:BA:342:GLN:HG3	1.85	0.41
2:BA:377:MET:HE2	2:BA:377:MET:HB3	1.96	0.41
1:BB:259:PRO:HA	2:BC:404:PHE:CD1	2.56	0.41
1:BB:322:SER:OG	1:BB:323:THR:N	2.53	0.41
2:BC:208:ALA:HB2	2:BC:304:LYS:HG3	2.01	0.41
1:BD:292:GLN:HG2	1:BD:298:ASN:ND2	2.35	0.41
1:BD:371:ASN:OD1	1:BD:372:THR:N	2.53	0.41
2:BE:221:ARG:O	16:0k:306:ARG:NH1	2.53	0.41
2:BG:5:ILE:HD12	2:BG:125:LEU:HB3	2.02	0.41
1:BJ:86:ARG:HB3	1:BJ:88:ASP:OD1	2.20	0.41
1:BJ:112:LEU:O	1:BJ:116:VAL:HG23	2.20	0.41
1:BL:170:ILE:N	1:BL:202:ILE:O	2.52	0.41
2:BM:211:ASP:OD2	2:BM:304:LYS:NZ	2.50	0.41
2:BM:268:VAL:CG2	2:BM:378:ILE:HD11	2.50	0.41
1:BN:175:VAL:HG12	1:BN:175:VAL:O	2.20	0.41
1:BN:252:LYS:HA	1:BN:252:LYS:HD3	1.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:50:ASN:HA	2:C:53:PHE:O	2.20	0.41
2:C:271:SER:OG	2:C:377:MET:HB2	2.20	0.41
1:CA:2:ARG:HH22	2:CB:73:THR:HG23	1.85	0.41
1:CA:332:ASN:O	1:CA:336:LYS:HE2	2.19	0.41
1:CA:398:TYR:O	1:CA:403:MET:HB3	2.19	0.41
2:CD:88:ASN:OD1	2:CD:89:PRO:HD2	2.19	0.41
2:CD:258:ASN:ND2	1:CE:178:THR:HG23	2.35	0.41
2:CF:7:ILE:HG23	2:CF:66:LEU:HD23	2.02	0.41
2:CJ:223:SER:OG	16:0l:687:ARG:NH2	2.52	0.41
2:CL:205:ASP:OD2	2:CL:303:THR:HA	2.20	0.41
2:CL:220:GLU:HB2	16:0l:420:ASP:HB3	2.02	0.41
2:DB:167:LEU:HD11	2:DB:255:PHE:HZ	1.85	0.41
2:DB:406:HIS:HA	2:DB:409:VAL:HG22	2.02	0.41
1:DE:101:TRP:CE3	1:DE:187:LEU:HD13	2.55	0.41
2:DH:312:TYR:HD1	2:DH:381:SER:HB2	1.84	0.41
1:DI:323:THR:HA	1:DI:326:VAL:HG12	2.01	0.41
1:DK:2:ARG:O	1:DK:49:VAL:HG13	2.20	0.41
1:DK:208:TYR:CE1	1:DK:225:LEU:HD11	2.55	0.41
2:DL:3:GLU:OE1	2:DL:64:ARG:NE	2.53	0.41
2:DL:426:ALA:O	2:DL:429:GLU:HG3	2.20	0.41
1:DM:183:TYR:HE2	1:DM:394:PHE:HB2	1.85	0.41
1:DM:290:THR:O	1:DM:293:MET:HB2	2.20	0.41
1:DM:325:GLU:O	1:DM:329:GLN:HG2	2.20	0.41
2:EA:79:ARG:NH2	2:EA:92:LEU:O	2.53	0.41
2:EG:66:LEU:HD22	2:EG:122:ILE:HG12	2.02	0.41
1:EJ:12:CYS:HB2	69:EJ:500:GDP:C8	2.55	0.41
1:EL:2:ARG:HB3	1:EL:2:ARG:NH1	2.35	0.41
1:EL:319:GLY:O	1:EL:321:MET:HG2	2.20	0.41
1:EL:404:ASP:OD2	1:EL:406:MET:HB2	2.20	0.41
2:FA:271:SER:OG	2:FA:295:VAL:HG13	2.20	0.41
2:FA:275:VAL:HG13	2:FA:275:VAL:O	2.20	0.41
1:FB:236:VAL:HA	1:FB:316:LEU:CD1	2.49	0.41
2:FC:195:LEU:HD13	2:FC:267:PHE:HE1	1.85	0.41
1:FD:110:ALA:O	1:FD:113:ILE:HG22	2.20	0.41
1:FH:379:ARG:HH22	1:FH:423:GLN:CD	2.28	0.41
2:FI:241:SER:OG	2:FI:250:VAL:O	2.21	0.41
1:FJ:330:MET:SD	1:FJ:349:ILE:HG21	2.60	0.41
1:FL:170:ILE:HG21	1:FL:377:MET:SD	2.60	0.41
1:FL:229:VAL:O	1:FL:233:MET:HG3	2.20	0.41
1:G:198:GLU:HB2	1:G:266:PHE:CZ	2.54	0.41
2:GA:214:ARG:HH12	59:4O:105:GLY:HA3	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GA:275:VAL:O	2:GA:275:VAL:HG13	2.20	0.41
2:GA:315:CYS:HB3	2:GA:350:GLY:O	2.20	0.41
2:GC:285:GLN:O	2:GC:285:GLN:HG2	2.19	0.41
1:GF:36:TYR:OH	1:GF:40:SER:O	2.37	0.41
2:GG:392:ASP:OD1	2:GG:393:HIS:N	2.53	0.41
1:GH:64:VAL:HG11	1:GH:116:VAL:HG23	2.01	0.41
1:GJ:113:ILE:HD11	1:GJ:151:LEU:HD23	2.02	0.41
1:GJ:192:LEU:O	1:GJ:196:SER:OG	2.30	0.41
1:GJ:359:LYS:HB3	10:0S:340:GLU:OE2	2.19	0.41
1:GL:364:SER:OG	1:GL:365:VAL:N	2.53	0.41
1:H:251:ARG:HH11	1:H:251:ARG:HG2	1.83	0.41
1:H:330:MET:HE1	1:H:349:ILE:HG22	2.01	0.41
2:HA:107:HIS:CD2	2:HA:152:LEU:HB2	2.55	0.41
2:HA:282:TYR:CE1	17:0m:93:ARG:HD2	2.55	0.41
1:HB:200:MET:HE3	1:HB:200:MET:HB3	1.92	0.41
1:HB:317:PHE:HB3	1:HB:321:MET:SD	2.60	0.41
2:HC:17:GLY:HA2	2:HC:20:CYS:SG	2.59	0.41
2:HC:208:ALA:HB2	2:HC:304:LYS:N	2.35	0.41
1:HD:66:MET:HE2	1:HD:112:LEU:HD21	2.00	0.41
2:HE:80:THR:HG22	7:0D:68:GLY:HA3	2.02	0.41
2:HG:246:GLY:O	2:HG:249:ASN:ND2	2.53	0.41
1:HH:165:MET:HG2	1:HH:250:LEU:HD13	2.02	0.41
1:HJ:392:LYS:HA	1:HJ:392:LYS:HD3	1.80	0.41
2:HK:173:PRO:HB3	2:HK:183:GLU:CG	2.50	0.41
1:HL:66:MET:CG	1:HL:147:MET:HE3	2.50	0.41
1:HL:272:PRO:HD3	1:HL:364:SER:HA	2.01	0.41
2:HM:341:ILE:O	2:HM:341:ILE:HG23	2.20	0.41
2:IA:210:TYR:HE1	2:IA:227:VAL:HG11	1.84	0.41
2:IC:68:LEU:HD13	2:IC:93:VAL:HB	2.01	0.41
2:IC:269:LEU:HD13	2:IC:301:MET:HG2	2.01	0.41
2:IC:316:CYS:HB3	2:IC:378:ILE:HB	2.01	0.41
1:ID:309:ARG:NH1	1:ID:426:GLN:O	2.53	0.41
2:IE:53:PHE:O	2:IE:64:ARG:NH2	2.51	0.41
2:IE:133:GLN:HB3	2:IE:252:LEU:HD23	2.01	0.41
2:IE:275:VAL:O	2:IE:275:VAL:HG13	2.20	0.41
1:IF:172:SER:HB3	1:IF:175:VAL:HG22	2.02	0.41
1:IF:324:LYS:HZ1	2:IG:222:PRO:N	2.18	0.41
1:IF:324:LYS:HB2	1:IF:324:LYS:HE2	1.65	0.41
2:IG:41:CYS:HA	47:3D:184:GLN:HE22	1.85	0.41
1:IH:344:TRP:CD1	1:IH:344:TRP:H	2.38	0.41
2:II:291:ILE:O	2:II:295:VAL:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:II:395:PHE:HD2	2:II:422:ARG:HD3	1.85	0.41
2:IM:322:ASP:OD1	2:IM:373:ARG:NH2	2.49	0.41
2:J:301:MET:HG2	2:J:303:THR:HG22	2.01	0.41
2:J:384:ILE:O	2:J:387:VAL:HG12	2.19	0.41
1:JA:112:LEU:HD22	1:JA:147:MET:HE1	2.02	0.41
1:JA:249:ASP:H	1:JA:252:LYS:HB2	1.85	0.41
1:JA:324:LYS:HD3	2:JB:210:TYR:CD1	2.55	0.41
2:JB:358:GLN:HE22	15:0f:66:LYS:NZ	2.18	0.41
1:JC:45:GLU:HG3	1:JC:46:ARG:HG2	2.01	0.41
1:JC:322:SER:HB3	1:JC:325:GLU:OE1	2.20	0.41
2:JF:261:PRO:C	1:JG:396:HIS:HE1	2.27	0.41
2:JH:209:ILE:HG12	2:JH:302:LEU:HD12	2.03	0.41
1:JI:113:ILE:HA	1:JI:116:VAL:HG22	2.00	0.41
1:JK:166:THR:HG23	1:JK:199:SER:HA	2.02	0.41
1:JK:173:PRO:HA	1:JK:176:SER:HB2	2.02	0.41
1:JK:258:VAL:HG12	1:JK:370:ASN:ND2	2.35	0.41
2:JL:69:ASP:OD1	2:JL:70:LEU:N	2.53	0.41
2:JN:70:LEU:HD12	2:JN:99:ALA:HB2	2.02	0.41
2:K:213:THR:HA	2:K:217:LEU:HD23	2.01	0.41
1:KA:19:LYS:HG3	1:KA:226:ASN:HB2	2.02	0.41
2:KB:44:VAL:HG22	20:0t:255:GLY:O	2.20	0.41
2:KB:209:ILE:HG12	2:KB:302:LEU:HD22	2.01	0.41
1:KC:67:ASP:HB3	1:KC:73:MET:HE3	2.01	0.41
1:KG:21:TRP:CZ3	1:KG:61:PRO:HB3	2.55	0.41
1:KG:256:ASN:HD21	2:KH:101:ASN:ND2	2.18	0.41
2:KH:60:LYS:H	23:1E:183:ARG:NH2	2.18	0.41
2:KH:254:GLU:O	2:KH:258:ASN:ND2	2.53	0.41
2:KH:270:THR:HG23	2:KH:302:LEU:HB2	2.02	0.41
1:KK:216:LYS:HB2	1:KK:275:SER:HB3	2.02	0.41
1:KK:233:MET:HE3	1:KK:233:MET:HB2	1.88	0.41
1:KM:293:MET:HG3	1:KM:367:PHE:HB2	2.00	0.41
2:KN:52:PHE:CE2	2:KN:239:THR:HG21	2.55	0.41
2:KN:200:VAL:HG23	2:KN:256:GLN:NE2	2.35	0.41
1:LA:63:ALA:O	1:LA:89:ASN:ND2	2.37	0.41
1:LA:308:GLY:HA3	1:LA:373:CYS:HB3	2.01	0.41
2:LB:89:PRO:HB2	2:MA:280:LYS:NZ	2.32	0.41
2:LB:339:ARG:HH21	22:1w:54:LEU:HD13	1.85	0.41
1:LC:198:GLU:HB2	1:LC:266:PHE:HE2	1.85	0.41
1:LC:225:LEU:O	1:LC:229:VAL:HG23	2.20	0.41
2:LD:326:LYS:NZ	1:LE:220:PRO:C	2.78	0.41
1:LE:20:PHE:HA	1:LE:230:ALA:HB1	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LF:85:GLN:O	2:ME:283:HIS:CE1	2.59	0.41
1:LG:253:LEU:HD21	1:LG:316:LEU:HD21	2.02	0.41
2:LH:88:ASN:HB3	2:LH:90:GLU:O	2.20	0.41
2:LH:291:ILE:O	2:LH:295:VAL:HG23	2.19	0.41
2:LJ:296:PHE:CZ	2:LJ:377:MET:HE1	2.55	0.41
1:LK:430:VAL:HG21	31:1s:84:HIS:HD2	1.85	0.41
2:LL:309:HIS:HB3	31:1s:35:ARG:HH12	1.84	0.41
1:LM:20:PHE:HB2	1:LM:233:MET:HE3	2.02	0.41
1:LM:268:MET:HA	1:LM:268:MET:HE3	2.02	0.41
1:LM:324:LYS:NZ	1:LM:325:GLU:OE2	2.50	0.41
1:M:267:MET:CB	1:M:301:GLN:HG2	2.43	0.41
2:MA:271:SER:CB	2:MA:301:MET:HG2	2.48	0.41
1:MB:27:GLU:OE1	1:MB:241:ARG:NH1	2.47	0.41
1:MB:206:ALA:O	1:MB:210:ILE:HG12	2.20	0.41
2:ME:26:LEU:HD13	2:ME:364:PRO:HD2	2.01	0.41
2:ME:141:VAL:HB	2:ME:190:SER:OG	2.20	0.41
2:ME:177:VAL:HG12	2:ME:207:GLU:OE2	2.19	0.41
1:MF:131:GLN:NE2	1:MF:250:LEU:HB2	2.35	0.41
2:MI:265:ILE:HG22	2:MI:380:ASN:HD21	1.84	0.41
2:MM:251:ASP:H	2:MM:254:GLU:HG3	1.84	0.41
2:MM:264:ARG:HH22	2:MM:427:ALA:HB3	1.85	0.41
1:N:314:SER:HA	1:N:350:LYS:O	2.20	0.41
2:NA:184:PRO:HG3	2:NA:394:LYS:HG3	2.02	0.41
2:NC:116:ASP:N	2:NC:116:ASP:OD1	2.49	0.41
2:NC:195:LEU:HA	2:NC:266:HIS:CE1	2.55	0.41
2:NC:211:ASP:HB3	2:NC:215:ARG:HH11	1.85	0.41
2:NE:306:ASP:HA	2:NE:307:PRO:HD3	1.90	0.41
1:NF:219:THR:HG21	10:0R:14:ARG:HH21	1.85	0.41
1:NH:193:VAL:HG22	1:NH:265:PHE:HE1	1.85	0.41
1:NH:236:VAL:HG13	1:NH:237:THR:HG23	2.01	0.41
1:NH:310:TYR:HD2	1:NH:341:PHE:CE2	2.38	0.41
2:NI:91:GLN:H	2:NI:121:ARG:NH1	2.17	0.41
2:NI:117:LEU:O	2:NI:121:ARG:HG2	2.20	0.41
2:NK:392:ASP:OD2	2:NK:425:LEU:HD22	2.19	0.41
1:NL:187:LEU:HD21	1:NL:408:PHE:CE1	2.55	0.41
1:O:65:LEU:HG	1:O:90:PHE:HE1	1.84	0.41
1:O:73:MET:HA	1:O:76:VAL:HG12	2.02	0.41
1:OB:252:LYS:HD2	2:OC:101:ASN:ND2	2.34	0.41
2:OC:212:LEU:O	2:OC:216:SER:OG	2.37	0.41
2:OC:425:LEU:HD12	2:OC:425:LEU:HA	1.92	0.41
1:OF:276:ARG:HD3	1:OF:276:ARG:O	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OF:415:MET:O	1:OF:419:VAL:HG23	2.20	0.41
1:OH:185:THR:O	1:OH:189:VAL:HG13	2.20	0.41
2:OI:116:ASP:OD1	2:OI:116:ASP:N	2.50	0.41
2:OK:2:ARG:HA	2:OK:133:GLN:HE22	1.84	0.41
2:OK:155:GLU:HA	2:OK:197:HIS:CD2	2.55	0.41
1:OL:8:GLN:CD	1:OL:17:GLY:HA3	2.45	0.41
2:OM:26:LEU:HD12	28:1h:163:PRO:HG2	2.02	0.41
2:OM:107:HIS:O	2:OM:112:LYS:NZ	2.53	0.41
2:OM:229:ARG:NH2	28:1h:149:MET:HG3	2.34	0.41
2:OM:255:PHE:O	2:OM:259:LEU:HB2	2.20	0.41
1:P:310:TYR:HB2	1:P:341:PHE:HD1	1.85	0.41
1:PD:293:MET:HE1	1:PD:315:ALA:HB2	2.02	0.41
2:PG:6:CYS:O	2:PG:65:CYS:HA	2.20	0.41
2:PG:56:THR:HG21	2:PG:60:LYS:HB2	2.02	0.41
2:PG:84:ARG:HH21	22:1x:253:GLN:HA	1.85	0.41
1:PH:61:PRO:HD3	1:PH:84:LEU:HG	2.01	0.41
2:PI:49:PHE:CD2	2:PI:61:HIS:HD2	2.38	0.41
2:PK:274:PRO:HD3	2:PK:374:ALA:HA	2.02	0.41
2:PK:311:LYS:HG2	2:PK:342:GLN:HG3	2.01	0.41
1:PL:267:MET:N	1:PL:369:GLY:O	2.53	0.41
1:PL:392:LYS:HG2	57:3h:29:TYR:CE1	2.54	0.41
1:QA:139:LEU:HD11	1:QA:168:SER:HB2	2.02	0.41
1:QC:213:ARG:HH22	1:QC:297:LYS:HA	1.84	0.41
2:QD:289:ALA:HA	2:QD:331:ALA:HB2	2.02	0.41
2:QD:388:PHE:HA	2:QD:391:ILE:HG22	2.01	0.41
1:QE:344:TRP:H	1:QE:344:TRP:CD1	2.37	0.41
2:QF:181:VAL:HG21	2:QF:404:PHE:CZ	2.54	0.41
1:QG:306:ARG:HA	1:QG:306:ARG:HH11	1.84	0.41
2:QH:293:ASN:O	2:QH:297:GLU:HG2	2.19	0.41
2:QJ:195:LEU:HD12	2:QJ:424:ASP:OD2	2.20	0.41
1:QK:91:ILE:HD11	1:QK:119:VAL:HG21	2.01	0.41
2:QL:238:LEU:HA	2:QL:318:MET:HG3	2.02	0.41
1:RA:139:LEU:HD13	1:RA:170:ILE:HD13	2.02	0.41
2:RB:105:ARG:NH2	2:RB:110:ILE:HD13	2.36	0.41
1:RE:22:GLU:HG2	1:RE:81:TYR:CD1	2.55	0.41
1:RE:403:MET:HE3	1:RE:403:MET:HB2	1.90	0.41
1:RG:322:SER:HB2	2:RH:222:PRO:O	2.20	0.41
2:RH:156:ARG:HD3	57:3g:130:TYR:CE1	2.55	0.41
1:RI:113:ILE:HA	1:RI:116:VAL:HB	2.01	0.41
1:RI:276:ARG:HA	1:RI:276:ARG:HD3	1.94	0.41
1:RI:310:TYR:CE1	1:RI:367:PHE:HZ	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:RL:8:HIS:CE1	2:RL:17:GLY:HA3	2.54	0.41
2:RL:191:THR:OG1	2:RL:425:LEU:HD21	2.20	0.41
2:SA:66:LEU:HA	2:SA:91:GLN:O	2.20	0.41
2:SE:25:CYS:SG	2:SE:86:LEU:HD21	2.59	0.41
2:SG:22:GLU:OE1	28:1U:225:TYR:HD1	2.03	0.41
2:SG:98:ASP:OD1	2:SG:98:ASP:N	2.51	0.41
1:SH:113:ILE:O	1:SH:117:LEU:HD23	2.20	0.41
1:SH:137:HIS:HE1	1:SH:166:THR:HB	1.85	0.41
1:SH:286:VAL:O	1:SH:290:THR:HG23	2.20	0.41
2:SI:69:ASP:OD2	2:SI:71:GLU:HG3	2.20	0.41
2:SI:326:LYS:NZ	1:SJ:208:TYR:HD2	2.17	0.41
1:SJ:274:THR:HG22	1:SJ:282:ARG:HD3	2.02	0.41
1:SJ:332:ASN:OD1	59:3p:248:VAL:HG13	2.20	0.41
2:SK:387:VAL:O	2:SK:391:ILE:HG23	2.20	0.41
1:T:2:ARG:HE	1:T:2:ARG:HB2	1.73	0.41
1:T:260:PHE:HD1	1:T:263:LEU:HD12	1.85	0.41
1:T:304:ASP:CG	1:T:306:ARG:HH21	2.28	0.41
2:TA:2:ARG:HD3	1:TB:70:PRO:HD2	2.01	0.41
2:TA:332:ILE:O	2:TA:336:LYS:HG2	2.20	0.41
2:TC:259:LEU:HD11	2:TC:268:VAL:HG21	2.01	0.41
1:TD:242:PHE:HB2	1:TD:354:CYS:SG	2.60	0.41
2:TE:101:ASN:HA	2:TE:144:GLY:N	2.35	0.41
1:TF:161:ASP:O	1:TF:251:ARG:NH2	2.53	0.41
1:TJ:217:LEU:HB3	1:TJ:220:PRO:HD3	2.02	0.41
1:TL:156:ARG:NH1	1:TL:159:TYR:O	2.53	0.41
1:U:109:GLY:O	1:U:113:ILE:HB	2.20	0.41
1:UB:315:ALA:CB	1:UB:330:MET:HE1	2.50	0.41
2:UC:333:ALA:O	2:UC:337:THR:HG23	2.20	0.41
1:UD:232:VAL:HB	1:UD:268:MET:HE2	2.02	0.41
2:UE:261:PRO:HG3	2:UE:313:MET:SD	2.60	0.41
1:UH:310:TYR:O	1:UH:342:ILE:HG13	2.19	0.41
1:UJ:129:CYS:SG	2:UK:96:LYS:HG3	2.60	0.41
1:UL:396:HIS:HA	1:UL:399:THR:HG22	2.02	0.41
1:V:77:ARG:HD2	1:V:90:PHE:HE2	1.83	0.41
1:V:341:PHE:HB3	1:V:348:ASN:ND2	2.33	0.41
2:VE:204:LEU:HD23	2:VE:204:LEU:HA	1.86	0.41
2:VE:260:VAL:HG23	1:VF:397:TRP:HE1	1.85	0.41
1:VF:143:THR:O	1:VF:147:MET:HB3	2.20	0.41
2:VG:212:LEU:HD11	2:VG:275:VAL:HG11	2.02	0.41
2:VK:312:TYR:CD1	2:VK:381:SER:HB2	2.55	0.41
1:VL:304:ASP:N	1:VL:373:CYS:SG	2.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VM:252:LEU:HA	2:VM:255:PHE:CE2	2.55	0.41
1:WB:267:MET:C	1:WB:268:MET:HE2	2.45	0.41
1:WB:310:TYR:CE1	1:WB:371:ASN:HB2	2.55	0.41
1:WB:404:ASP:OD1	1:WB:405:GLU:N	2.49	0.41
2:WC:213:THR:HG22	2:WC:219:ILE:HB	2.02	0.41
2:WC:413:MET:HE2	2:WC:413:MET:HB3	1.91	0.41
1:WD:177:ASP:N	1:WD:181:GLU:OE2	2.45	0.41
1:WF:65:LEU:CB	1:WF:73:MET:HE1	2.50	0.41
2:WG:157:LEU:C	2:WG:166:LYS:HZ1	2.27	0.41
2:WG:388:PHE:CD1	2:WG:432:TYR:HE2	2.38	0.41
2:WI:21:TRP:HZ3	2:WI:52:PHE:HB3	1.85	0.41
2:WI:32:PRO:HG2	2:WI:82:THR:HG22	2.02	0.41
2:WK:212:LEU:HD11	2:WK:275:VAL:CG1	2.50	0.41
3:XC:28:GLN:O	3:XC:57:CYS:HA	2.20	0.41
3:XD:46:VAL:HB	3:XD:162:ILE:O	2.20	0.41
3:XD:75:PHE:HB2	3:XD:168:SER:O	2.20	0.41
4:XO:153:LEU:HD23	4:XO:153:LEU:HA	1.92	0.41
5:XP:176:ARG:HD3	5:XP:214:THR:OG1	2.19	0.41
4:XR:118:ILE:HD11	4:XR:211:HIS:CE1	2.55	0.41
8:0F:154:ARG:HA	8:0F:154:ARG:HD3	1.87	0.41
8:0I:201:GLN:HE22	8:0I:205:ARG:HD2	1.85	0.41
9:0M:555:SER:CB	9:0M:597:LYS:HA	2.50	0.41
9:0M:624:LEU:HD23	9:0M:624:LEU:HA	1.89	0.41
9:0N:43:ILE:HD11	9:0N:78:SER:HB2	2.02	0.41
9:0N:110:LYS:O	9:0N:128:GLY:N	2.51	0.41
9:0O:80:GLN:HE21	9:0O:82:THR:HG22	1.86	0.41
12:0W:69:MET:HE3	12:0W:69:MET:HB3	1.82	0.41
13:0Z:128:ARG:HH12	51:X1:207:ILE:HG23	1.85	0.41
15:0f:224:THR:HG22	15:0f:226:LYS:H	1.85	0.41
16:0k:265:LEU:HG	16:0k:269:PHE:HE2	1.85	0.41
17:0n:176:VAL:HG22	17:0n:178:ARG:NH2	2.35	0.41
23:1A:197:LYS:O	23:1A:201:GLN:HG3	2.20	0.41
23:1B:227:GLU:OE1	45:2z:177:LEU:HD21	2.20	0.41
24:1H:536:GLN:HA	24:1H:607:MET:HE1	2.02	0.41
24:1I:348:VAL:HG12	24:1I:357:LYS:HB2	2.02	0.41
25:1O:282:THR:HB	25:1O:385:ASP:OD2	2.20	0.41
26:1Q:89:PHE:HB2	26:1Q:112:LEU:HB2	2.01	0.41
26:1Q:696:LEU:HD23	26:1Q:700:LEU:HD12	2.01	0.41
27:1S:336:LEU:HD11	27:1S:382:VAL:HG22	2.00	0.41
28:1V:20:CYS:SG	28:1V:21:ARG:N	2.93	0.41
22:1x:201:ASP:OD1	22:1x:202:GLU:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:2F:164:LYS:HE2	33:2F:164:LYS:HB2	1.83	0.41
33:2G:173:GLN:HA	33:2G:180:PRO:HG3	2.02	0.41
33:2H:227:HIS:NE2	33:2H:246:ASP:OD2	2.49	0.41
33:2I:74:ASN:ND2	33:2I:106:LEU:HD13	2.35	0.41
33:2I:158:ALA:HB3	33:2I:161:GLU:OE1	2.19	0.41
37:2S:43:PHE:O	37:2S:234:LYS:HG3	2.20	0.41
38:2U:197:GLY:O	38:2U:205:ARG:NH2	2.52	0.41
40:2Z:353:ASN:OD1	40:2Z:356:GLU:HG2	2.19	0.41
44:2v:215:ARG:O	44:2v:218:ARG:HG2	2.20	0.41
44:2w:117:VAL:HG21	44:2w:169:THR:HG22	2.02	0.41
44:2w:218:ARG:HD2	44:2w:376:THR:OG1	2.20	0.41
45:2y:344:GLY:O	45:2y:345:LYS:HG3	2.20	0.41
46:3B:312:ARG:CZ	47:3D:240:ASN:HD22	2.33	0.41
47:3D:51:ARG:HG2	47:3D:56:TYR:CZ	2.55	0.41
48:3I:78:SER:HA	48:3I:81:LYS:HB2	2.02	0.41
57:3i:120:GLN:O	57:3i:124:GLU:HG3	2.20	0.41
62:4B:375:TYR:O	62:4B:376:ALA:C	2.63	0.41
64:5C:76:LEU:HG	64:5C:80:MET:CE	2.50	0.41
66:5K:33:ASN:HB3	66:5K:38:LYS:O	2.20	0.41
66:5L:19:ASP:HB2	66:5L:268:ASN:HB3	2.01	0.41
68:5S:113:LEU:HA	68:5S:116:ARG:HB2	2.02	0.41
68:5S:130:PRO:HA	68:5S:131:PRO:HD3	1.94	0.41
1:A:193:VAL:HG23	1:A:194:GLU:HG3	2.00	0.41
1:AD:215:LEU:HD11	1:AD:228:LEU:HD21	2.02	0.41
2:AE:138:PHE:HE2	2:AE:235:VAL:HG21	1.85	0.41
1:AF:318:ARG:HB3	1:AF:357:PRO:HA	2.02	0.41
2:AG:76:ASP:HB2	16:0k:36:LEU:HD11	2.02	0.41
2:AG:76:ASP:OD1	2:AG:77:GLU:N	2.53	0.41
1:AH:175:VAL:HG21	1:AH:204:ASN:HB2	2.01	0.41
1:AJ:27:GLU:OE1	1:AJ:241:ARG:NH1	2.51	0.41
1:AJ:252:LYS:HZ3	2:AK:101:ASN:H	1.67	0.41
1:AL:326:VAL:HG11	1:AL:353:ILE:HD11	2.01	0.41
1:AN:65:LEU:HD22	1:AN:90:PHE:CE2	2.55	0.41
1:AN:178:THR:HB	1:AN:181:GLU:CG	2.46	0.41
1:AN:332:ASN:O	1:AN:336:LYS:HG2	2.19	0.41
1:B:185:THR:O	1:B:189:VAL:HG13	2.20	0.41
2:BA:352:LYS:HA	1:BB:177:ASP:C	2.46	0.41
1:BB:165:MET:HE3	1:BB:250:LEU:HD13	2.02	0.41
2:BC:33:ASP:HA	2:BC:85:GLN:HB2	2.01	0.41
2:BC:167:LEU:HD22	2:BC:200:VAL:HB	2.02	0.41
1:BD:19:LYS:HD3	1:BD:19:LYS:HA	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BD:203:ASP:OD1	1:BD:204:ASN:N	2.53	0.41
1:BD:245:GLN:HE21	1:BD:245:GLN:HB2	1.57	0.41
1:BD:346:PRO:HD2	2:BE:398:MET:HG3	2.02	0.41
2:BE:251:ASP:H	2:BE:254:GLU:CB	2.33	0.41
2:BE:275:VAL:HG23	2:BE:275:VAL:O	2.20	0.41
1:BF:267:MET:SD	1:BF:371:ASN:HB3	2.60	0.41
1:BF:280:GLN:NE2	26:1Q:96:ASP:O	2.54	0.41
2:BG:81:GLY:O	2:BG:84:ARG:HG3	2.20	0.41
2:BG:221:ARG:N	2:BG:222:PRO:HD3	2.35	0.41
1:BH:304:ASP:HB3	1:BH:307:HIS:CD2	2.55	0.41
1:BH:415:MET:O	1:BH:419:VAL:HG23	2.20	0.41
2:BK:251:ASP:H	2:BK:254:GLU:CB	2.32	0.41
2:BM:117:LEU:HD11	2:BM:121:ARG:CZ	2.50	0.41
2:C:370:LYS:HE3	24:1H:251:ASP:CB	2.50	0.41
2:CB:21:TRP:CZ3	2:CB:52:PHE:HB3	2.56	0.41
1:CC:178:THR:HG22	1:CC:179:VAL:N	2.34	0.41
1:CC:274:THR:HG21	1:CC:282:ARG:HD3	2.01	0.41
1:CC:392:LYS:HE2	1:CC:392:LYS:HB2	1.81	0.41
1:CE:133:PHE:HB2	1:CE:164:MET:SD	2.60	0.41
1:CE:276:ARG:NH2	26:1Q:317:GLN:O	2.54	0.41
1:CG:325:GLU:CD	2:CH:221:ARG:HG2	2.45	0.41
2:CH:40:LYS:HE3	2:CH:44:VAL:HG12	2.01	0.41
2:CH:44:VAL:HG22	2:CH:45:GLU:N	2.34	0.41
2:CH:328:VAL:O	2:CH:332:ILE:HG12	2.21	0.41
1:CI:31:ASP:HB2	1:CI:37:GLN:OE1	2.19	0.41
1:CI:232:VAL:CG2	1:CI:270:PHE:HB2	2.49	0.41
1:CK:20:PHE:HA	1:CK:230:ALA:HB1	2.01	0.41
1:CK:66:MET:SD	1:CK:151:LEU:HD22	2.59	0.41
1:CK:143:THR:O	1:CK:147:MET:HB3	2.20	0.41
2:CL:215:ARG:HH21	2:CL:299:ALA:HA	1.85	0.41
1:DG:36:TYR:OH	1:DG:40:SER:O	2.36	0.41
2:DH:212:LEU:O	2:DH:216:SER:HB2	2.21	0.41
1:DM:145:SER:OG	1:DM:146:GLY:N	2.53	0.41
1:DM:309:ARG:HD3	1:DM:341:PHE:C	2.45	0.41
1:E:156:ARG:NH2	1:E:160:PRO:O	2.53	0.41
1:E:165:MET:HA	1:E:198:GLU:O	2.20	0.41
2:EA:346:TRP:CD1	1:EB:391:ARG:HG3	2.55	0.41
2:EC:402:ARG:NH2	2:EC:415:GLU:OE2	2.52	0.41
1:ED:66:MET:SD	1:ED:116:VAL:HG11	2.60	0.41
2:EE:352:LYS:HD2	1:EF:177:ASP:O	2.20	0.41
2:EI:142:GLY:CA	2:EI:183:GLU:HG2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EK:28:HIS:NE2	2:EK:243:ARG:HD2	2.35	0.41
1:EL:345:ILE:HG23	1:EL:348:ASN:ND2	2.35	0.41
1:F:226:ASN:HA	1:F:229:VAL:CG2	2.50	0.41
1:F:226:ASN:HA	1:F:229:VAL:HG22	2.01	0.41
2:FA:21:TRP:CZ2	2:FA:65:CYS:HB3	2.54	0.41
1:FB:87:PRO:HA	1:FB:90:PHE:CD2	2.55	0.41
1:FD:180:VAL:O	1:FD:180:VAL:HG12	2.20	0.41
1:FD:186:THR:HG22	1:FD:415:MET:SD	2.60	0.41
1:FD:389:PHE:HZ	1:FD:405:GLU:HG3	1.84	0.41
2:FE:304:LYS:NZ	63:4I:299:LEU:HD13	2.35	0.41
2:FG:254:GLU:OE2	1:FH:99:ASN:ND2	2.52	0.41
2:FG:322:ASP:OD2	2:FG:373:ARG:NH2	2.53	0.41
1:FJ:26:ASP:O	1:FJ:359:LYS:NZ	2.52	0.41
2:FK:212:LEU:O	2:FK:216:SER:OG	2.34	0.41
1:G:152:ILE:HG12	1:G:164:MET:HE2	2.01	0.41
1:G:232:VAL:HG11	1:G:268:MET:SD	2.60	0.41
2:GA:304:LYS:HE2	2:GA:304:LYS:HB2	1.80	0.41
1:GB:320:ARG:HH12	38:2U:324:ARG:CZ	2.33	0.41
2:GC:32:PRO:HG2	38:2U:330:LEU:HD21	2.02	0.41
2:GE:54:SER:HA	2:GE:64:ARG:NH2	2.34	0.41
1:GF:295:ASP:OD1	1:GF:296:ALA:N	2.52	0.41
2:GG:336:LYS:HD3	2:GG:351:PHE:CE2	2.55	0.41
1:GL:139:LEU:HG	1:GL:168:SER:HB2	2.02	0.41
1:H:9:ALA:HA	1:H:66:MET:O	2.20	0.41
2:HA:276:VAL:HG13	2:HA:281:ALA:HB2	2.03	0.41
2:HA:369:ALA:HA	17:0m:96:GLN:HE22	1.84	0.41
2:HC:120:ASP:OD1	2:HC:123:ARG:NH2	2.42	0.41
2:HC:250:VAL:HG11	2:HC:352:LYS:HE3	2.02	0.41
1:HD:31:ASP:OD1	1:HD:35:THR:N	2.54	0.41
1:HF:208:TYR:CZ	1:HF:225:LEU:HD11	2.55	0.41
2:HG:419:SER:O	2:HG:422:ARG:N	2.53	0.41
1:HH:313:ALA:HB3	1:HH:349:ILE:HD13	2.02	0.41
1:HH:318:ARG:HB3	1:HH:357:PRO:HA	2.01	0.41
1:I:284:LEU:HD13	7:0C:277:TRP:CZ3	2.55	0.41
2:IA:230:LEU:HD23	2:IA:368:LEU:HD21	2.02	0.41
1:ID:186:THR:HG22	1:ID:411:ALA:HB1	2.01	0.41
2:IE:79:ARG:HD2	19:0r:76:TRP:CZ2	2.55	0.41
1:IF:324:LYS:NZ	2:IG:222:PRO:HD2	2.35	0.41
1:IJ:342:ILE:HG21	1:IJ:345:ILE:HD12	2.02	0.41
2:IK:319:TYR:HD2	2:IK:375:VAL:HG22	1.85	0.41
1:IL:231:ALA:HB1	1:IL:270:PHE:CZ	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IM:207:GLU:HA	2:IM:210:TYR:HB2	2.02	0.41
2:IM:220:GLU:C	2:IM:221:ARG:HD2	2.44	0.41
1:JA:204:ASN:OD1	69:JA:500:GDP:O2'	2.36	0.41
1:JC:330:MET:HB3	1:JC:349:ILE:HD13	2.02	0.41
2:JD:322:ASP:OD1	2:JD:373:ARG:HB3	2.20	0.41
1:JE:13:GLY:HA2	1:JE:16:ILE:HG22	2.01	0.41
1:JE:175:VAL:O	1:JE:175:VAL:HG12	2.19	0.41
1:JE:325:GLU:HG2	1:JE:326:VAL:N	2.35	0.41
2:JF:21:TRP:CZ2	2:JF:65:CYS:HB3	2.55	0.41
2:JF:70:LEU:HD22	2:JF:110:ILE:HG22	2.01	0.41
1:JG:32:PRO:HG3	1:JG:81:TYR:CE1	2.55	0.41
2:JH:53:PHE:HB3	2:JH:61:HIS:HB3	2.02	0.41
2:JJ:424:ASP:HA	2:NI:339:ARG:HH22	1.85	0.41
1:JK:263:LEU:HD21	1:JK:421:GLU:HG3	2.02	0.41
2:JN:21:TRP:CE2	2:JN:65:CYS:HB3	2.55	0.41
2:JN:55:GLU:HA	2:JN:55:GLU:OE2	2.19	0.41
2:KB:160:ASP:O	35:2N:172:PRO:HA	2.19	0.41
1:KC:165:MET:HE2	1:KC:165:MET:HA	2.01	0.41
2:KD:81:GLY:O	2:KD:84:ARG:NH1	2.52	0.41
1:KE:24:ILE:HG22	1:KE:51:PHE:HE1	1.84	0.41
1:KE:322:SER:OG	2:KF:223:SER:HA	2.19	0.41
2:KF:211:ASP:HA	2:KF:214:ARG:HG2	2.02	0.41
1:KG:78:ALA:HB1	45:2y:370:LYS:HG3	2.00	0.41
1:KG:209:ASP:OD1	1:KG:213:ARG:NH1	2.53	0.41
1:KI:225:LEU:O	1:KI:229:VAL:HG23	2.21	0.41
1:KK:320:ARG:HB2	1:KK:320:ARG:CZ	2.50	0.41
2:KL:185:TYR:HB3	2:KL:408:TYR:HE2	1.84	0.41
2:L:27:GLU:OE1	2:L:361:THR:OG1	2.33	0.41
2:L:112:LYS:HD3	2:L:152:LEU:HD21	2.02	0.41
2:L:212:LEU:HD21	2:L:275:VAL:HG11	2.01	0.41
1:LA:61:PRO:HD3	1:LA:84:LEU:HG	2.02	0.41
2:LB:91:GLN:NE2	2:LB:125:LEU:HG	2.35	0.41
1:LC:141:GLY:O	1:LC:145:SER:OG	2.31	0.41
1:LC:246:LEU:HD21	2:LD:179:THR:HB	2.02	0.41
2:LD:195:LEU:HD21	2:LD:264:ARG:NH1	2.35	0.41
2:LD:343:PHE:O	31:1q:28:ARG:NH1	2.38	0.41
1:LE:2:ARG:HH22	2:LF:96:LYS:HG2	1.85	0.41
1:LE:210:ILE:O	1:LE:214:THR:OG1	2.29	0.41
1:LE:316:LEU:HB2	1:LE:366:THR:OG1	2.20	0.41
2:LF:136:MET:HE3	2:LF:136:MET:HB3	1.83	0.41
2:LH:139:HIS:O	2:LH:170:THR:HA	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LH:206:ASN:OD1	71:LH:501:GTP:N2	2.54	0.41
1:LI:54:SER:OG	1:LI:55:SER:N	2.52	0.41
1:LI:68:LEU:HB3	1:LI:95:SER:O	2.21	0.41
2:LJ:275:VAL:O	2:LJ:275:VAL:HG13	2.20	0.41
1:LK:275:SER:OG	1:LK:276:ARG:N	2.53	0.41
2:LN:261:PRO:HD2	2:LN:265:ILE:O	2.21	0.41
1:LO:156:ARG:HH22	1:LO:197:ASP:CG	2.27	0.41
2:MA:346:TRP:O	1:MB:388:MET:HG2	2.20	0.41
2:MC:345:ASP:OD1	2:MC:346:TRP:N	2.53	0.41
2:MC:399:TYR:O	2:MC:402:ARG:NH1	2.51	0.41
1:MD:331:LEU:HD11	2:ME:176:GLN:CD	2.45	0.41
1:MF:62:ARG:HD3	1:MF:127:CYS:SG	2.60	0.41
2:MG:70:LEU:HD21	2:MG:149:LEU:HD22	2.02	0.41
1:MH:42:LEU:HD12	1:MH:356:ILE:HD11	2.02	0.41
2:MI:1:MET:HG2	2:MI:2:ARG:N	2.36	0.41
2:MI:430:LYS:HA	2:MI:433:GLU:OE1	2.20	0.41
1:MJ:306:ARG:HD2	14:0d:87:GLY:O	2.20	0.41
2:MK:338:LYS:NZ	2:MK:340:THR:HG22	2.35	0.41
2:MM:306:ASP:OD2	2:MM:309:HIS:N	2.53	0.41
1:MN:322:SER:HB3	1:MN:325:GLU:OE1	2.20	0.41
2:NA:394:LYS:HZ2	2:NA:398:MET:HE3	1.84	0.41
1:NB:246:LEU:HD12	1:NB:246:LEU:HA	1.94	0.41
2:NC:164:LYS:HE3	2:NC:164:LYS:HB3	1.73	0.41
2:NC:291:ILE:HD13	2:NC:373:ARG:HG3	2.02	0.41
1:NH:385:PHE:CE2	1:NH:412:GLU:HB3	2.56	0.41
2:NI:103:TYR:HB3	2:NI:408:TYR:HE2	1.85	0.41
2:NI:295:VAL:CG1	2:NI:377:MET:HB2	2.50	0.41
1:NJ:347:ASN:O	2:NK:181:VAL:HG12	2.19	0.41
1:NL:87:PRO:HD3	1:OL:281:TYR:CE2	2.54	0.41
1:NL:309:ARG:HG2	1:NL:339:SER:O	2.21	0.41
1:O:172:SER:HB3	1:O:205:GLU:OE2	2.19	0.41
1:O:254:ALA:O	1:O:258:VAL:HG22	2.20	0.41
2:OA:195:LEU:HD21	2:OA:428:LEU:HD22	2.02	0.41
2:OA:320:ARG:HA	2:OA:356:ASN:O	2.20	0.41
1:OB:3:GLU:HA	1:OB:49:VAL:HA	2.02	0.41
2:OE:275:VAL:O	2:OE:275:VAL:HG13	2.19	0.41
2:OE:352:LYS:HD2	1:OF:177:ASP:O	2.20	0.41
1:OF:167:PHE:CG	1:OF:233:MET:HE3	2.55	0.41
1:OF:379:ARG:O	1:OF:383:GLU:HG3	2.20	0.41
1:OH:88:ASP:OD1	1:OH:88:ASP:N	2.52	0.41
2:OI:225:THR:O	2:OI:229:ARG:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OL:19:LYS:HB3	1:OL:19:LYS:HE3	1.64	0.41
2:OM:195:LEU:HA	2:OM:266:HIS:CE1	2.55	0.41
2:OM:210:TYR:O	2:OM:214:ARG:HG2	2.20	0.41
1:P:117:LEU:HD21	1:P:121:ARG:CZ	2.50	0.41
2:PA:195:LEU:HA	2:PA:266:HIS:HE1	1.84	0.41
2:PC:365:GLY:HA2	22:1w:265:ARG:NE	2.35	0.41
2:PE:33:ASP:HA	2:PE:85:GLN:HB2	2.02	0.41
2:PE:295:VAL:HG21	2:PE:375:VAL:HG13	2.00	0.41
1:PF:102:ALA:HB2	1:PF:403:MET:HE3	2.01	0.41
2:PG:288:VAL:HB	2:PG:327:ASP:HB3	2.02	0.41
1:PH:232:VAL:HG21	1:PH:300:MET:SD	2.60	0.41
2:PK:108:TYR:CE2	2:PK:413:MET:HG3	2.55	0.41
2:PK:138:PHE:HE2	2:PK:235:VAL:HG21	1.85	0.41
2:PM:252:LEU:HA	2:PM:255:PHE:CE2	2.55	0.41
2:PM:288:VAL:HG21	2:PM:323:VAL:HG23	2.02	0.41
2:PM:392:ASP:HB3	2:PM:425:LEU:HD22	2.02	0.41
2:QB:288:VAL:HB	2:QB:327:ASP:HB3	2.02	0.41
2:QD:246:GLY:HA3	2:QD:356:ASN:HA	2.01	0.41
1:QE:122:LYS:HZ3	1:RE:291:GLN:NE2	2.18	0.41
2:QH:274:PRO:HB3	2:QH:286:LEU:HD12	2.02	0.41
1:QI:317:PHE:CE2	1:QI:365:VAL:HB	2.55	0.41
2:QL:206:ASN:OD1	71:QL:501:GTP:N2	2.52	0.41
2:QL:433:GLU:OE1	2:QL:433:GLU:HA	2.20	0.41
1:RA:112:LEU:HD22	1:RA:147:MET:HE1	2.02	0.41
1:RA:259:PRO:HB3	2:RB:404:PHE:CE2	2.55	0.41
1:RA:299:MET:HE3	1:RA:305:PRO:HG3	2.02	0.41
1:RA:389:PHE:O	1:RA:392:LYS:HD2	2.20	0.41
2:RH:280:LYS:HG3	2:RH:284:GLU:OE2	2.19	0.41
1:RI:161:ASP:OD1	1:RI:162:ARG:HD3	2.20	0.41
1:RI:167:PHE:CD2	1:RI:233:MET:HE2	2.55	0.41
2:RJ:324:VAL:HG13	2:RJ:327:ASP:H	1.84	0.41
1:RK:55:SER:N	1:SJ:283:GLY:HA2	2.36	0.41
1:RK:322:SER:HB3	2:RL:221:ARG:HG2	2.02	0.41
2:RL:5:ILE:HD12	2:RL:125:LEU:HB3	2.02	0.41
2:RL:188:VAL:HG21	2:RL:395:PHE:CD1	2.55	0.41
2:RL:295:VAL:HG11	2:RL:377:MET:HG2	2.02	0.41
2:RL:395:PHE:CE2	2:RL:422:ARG:HD3	2.55	0.41
2:SA:200:VAL:HA	2:SA:266:HIS:HB2	2.02	0.41
1:SB:33:THR:HG23	1:SB:35:THR:HG22	2.02	0.41
1:SB:70:PRO:HB3	1:SB:92:PHE:CD2	2.55	0.41
1:SB:189:VAL:HG11	1:SB:415:MET:SD	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SC:175:PRO:HB3	2:SC:390:ARG:NH1	2.35	0.41
1:SD:290:THR:HG21	1:SD:329:GLN:HB3	2.01	0.41
2:SE:189:LEU:CD2	2:SE:413:MET:HE1	2.50	0.41
2:SE:197:HIS:HE1	58:3m:160:LEU:HD11	1.84	0.41
2:SE:225:THR:HG21	28:1U:190:GLU:CG	2.45	0.41
2:SE:271:SER:HB2	2:SE:295:VAL:HG13	2.02	0.41
2:SE:326:LYS:HG2	1:SF:220:PRO:HD2	2.02	0.41
1:SF:8:GLN:HG3	1:SF:136:SER:OG	2.20	0.41
1:SF:239:CYS:SG	1:SF:247:ASN:HA	2.59	0.41
2:SG:93:VAL:HG12	2:SG:114:ILE:HD11	2.02	0.41
1:SH:35:THR:HG23	1:SH:37:GLN:NE2	2.29	0.41
1:SJ:316:LEU:HB2	1:SJ:366:THR:OG1	2.19	0.41
2:SK:119:LEU:HD21	2:SK:160:ASP:OD2	2.20	0.41
2:SK:256:GLN:O	2:SK:260:VAL:HG22	2.20	0.41
1:T:345:ILE:O	1:T:345:ILE:HG23	2.20	0.41
2:TA:169:TYR:CE2	2:TA:235:VAL:HG22	2.55	0.41
1:TB:14:ASN:HD21	1:TB:67:ASP:HB2	1.84	0.41
1:TB:175:VAL:HG11	1:TB:204:ASN:HB2	2.02	0.41
1:TB:373:CYS:O	1:TB:376:GLU:HB2	2.19	0.41
1:TD:68:LEU:HB3	1:TD:96:GLY:HA2	2.02	0.41
1:TD:119:VAL:O	1:TD:122:LYS:HG3	2.19	0.41
2:TE:64:ARG:NE	2:TE:129:CYS:SG	2.91	0.41
1:TF:20:PHE:HA	1:TF:230:ALA:HB1	2.02	0.41
2:TG:173:PRO:HB3	2:TG:183:GLU:OE2	2.21	0.41
1:TJ:256:ASN:CG	1:TJ:350:LYS:HD2	2.45	0.41
1:TJ:372:THR:HA	1:TJ:422:TYR:CD1	2.54	0.41
2:TK:263:PRO:HD3	1:TL:396:HIS:ND1	2.35	0.41
1:TL:185:THR:HG21	1:TL:381:VAL:HG13	2.02	0.41
1:TL:268:MET:C	1:TL:300:MET:HG2	2.45	0.41
2:UA:291:ILE:HD13	2:UA:373:ARG:HG3	2.02	0.41
1:UB:101:TRP:HZ3	1:UB:106:TYR:HE1	1.67	0.41
1:UD:232:VAL:CG2	1:UD:270:PHE:HB2	2.51	0.41
1:UF:293:MET:HE2	1:UF:367:PHE:HE1	1.85	0.41
1:UF:317:PHE:HB3	1:UF:321:MET:HE1	2.02	0.41
2:UG:70:LEU:HD22	2:UG:110:ILE:HG22	2.01	0.41
2:UG:194:LEU:O	2:UG:198:THR:HB	2.20	0.41
1:UH:163:ILE:HD11	1:UH:251:ARG:HG3	2.02	0.41
1:UJ:119:VAL:O	1:UJ:122:LYS:HB3	2.20	0.41
1:UL:252:LYS:HA	1:UL:255:VAL:HG12	2.01	0.41
1:V:25:SER:HB2	1:V:81:TYR:HE2	1.85	0.41
1:V:174:ARG:HH12	1:V:380:ARG:NH1	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VA:21:TRP:CZ3	2:VA:52:PHE:HB3	2.55	0.41
2:VA:181:VAL:O	2:VA:184:PRO:HD2	2.20	0.41
2:VA:325:PRO:HA	2:VA:328:VAL:HG22	2.02	0.41
2:VG:346:TRP:CD1	1:VH:391:ARG:HD3	2.56	0.41
2:VI:109:THR:HG23	2:VI:411:GLU:OE1	2.20	0.41
2:VI:189:LEU:HD13	2:VI:413:MET:HE1	2.02	0.41
1:VJ:105:HIS:CG	1:VJ:150:LEU:HD12	2.55	0.41
1:VJ:322:SER:HB2	2:VK:222:PRO:O	2.19	0.41
2:VK:47:ASP:OD1	2:VK:47:ASP:N	2.53	0.41
1:VL:73:MET:O	1:VL:77:ARG:HG2	2.20	0.41
1:VL:263:LEU:HD11	1:VL:421:GLU:HG3	2.02	0.41
2:WC:238:LEU:HD21	2:WC:255:PHE:CZ	2.55	0.41
2:WC:291:ILE:O	2:WC:295:VAL:HG23	2.20	0.41
2:WC:320:ARG:HE	2:WC:320:ARG:HB3	1.72	0.41
1:WD:178:THR:HG22	1:WD:180:VAL:H	1.85	0.41
1:WD:294:PHE:CE1	1:WD:333:VAL:HG11	2.51	0.41
2:WE:431:ASP:OD1	2:WE:432:TYR:N	2.52	0.41
1:WF:274:THR:HG22	1:WF:282:ARG:HD3	2.02	0.41
2:WG:422:ARG:NH1	2:WG:426:ALA:HB2	2.35	0.41
1:WH:314:SER:OG	1:WH:368:ILE:HB	2.20	0.41
2:WK:367:ASP:OD1	2:WK:368:LEU:N	2.53	0.41
2:WM:275:VAL:O	2:WM:275:VAL:HG13	2.20	0.41
3:XB:153:ARG:CZ	3:XB:153:ARG:HB2	2.50	0.41
4:XO:19:LEU:HD21	4:XO:170:GLU:CG	2.50	0.41
6:0A:69:PHE:CD2	6:0A:70:LEU:HD23	2.55	0.41
6:0A:176:LYS:HE2	6:0A:210:ARG:HD3	2.03	0.41
7:0C:377:ALA:O	7:0C:381:THR:HG23	2.20	0.41
8:0I:279:GLU:HG2	8:0I:282:LYS:NZ	2.36	0.41
8:0J:448:GLN:OE1	8:0J:451:LEU:HD13	2.19	0.41
9:0L:267:VAL:HG22	9:0L:287:VAL:HG21	2.02	0.41
9:0M:32:GLN:NE2	9:0M:32:GLN:HA	2.33	0.41
9:0O:26:LEU:HG	9:0O:37:TYR:HB3	2.02	0.41
9:0O:112:GLN:N	9:0O:126:VAL:O	2.47	0.41
9:0O:151:HIS:HB2	9:0O:177:ARG:NH1	2.33	0.41
10:0R:235:ARG:O	10:0R:239:GLU:OE1	2.39	0.41
10:0R:295:LEU:O	10:0R:298:GLU:HG3	2.19	0.41
11:0U:25:GLN:O	11:0U:37:MET:HA	2.20	0.41
15:0f:50:TYR:O	15:0f:54:TYR:HB2	2.20	0.41
16:0k:436:ARG:H	16:0k:436:ARG:HG3	1.64	0.41
20:0t:85:ASP:HA	20:0t:87:ARG:NH1	2.35	0.41
20:0t:154:LEU:HD23	20:0t:178:PHE:HB3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:1E:105:GLU:OE1	45:2z:65:SER:OG	2.32	0.41
24:1I:90:LEU:HA	24:1I:93:ARG:HG2	2.02	0.41
24:1I:255:LEU:HB2	24:1I:278:TYR:HB3	2.02	0.41
24:1I:649:ARG:NH2	24:1I:650:HIS:CE1	2.87	0.41
24:1J:575:LEU:HD23	24:1J:575:LEU:HA	1.90	0.41
27:1S:689:SER:O	27:1S:693:MET:HG3	2.21	0.41
28:1c:21:ARG:HD3	41:2i:351:ARG:NH2	2.34	0.41
30:1o:24:ALA:O	62:4B:171:ARG:HA	2.20	0.41
31:1s:243:ILE:HD12	31:1s:243:ILE:HA	1.90	0.41
33:2F:165:ASN:OD1	33:2F:274:ASN:O	2.37	0.41
34:2L:33:ASP:OD1	34:2L:34:LYS:N	2.53	0.41
35:2N:250:TRP:HH2	35:2O:46:ASP:HB2	1.84	0.41
39:2X:307:LEU:HB3	39:2X:311:ARG:HH21	1.85	0.41
41:2e:171:GLU:OE2	41:2e:174:ARG:NH2	2.41	0.41
41:2f:460:ASP:O	41:2f:464:ARG:HG3	2.21	0.41
41:2l:303:ARG:HD2	41:2l:307:GLU:OE1	2.20	0.41
42:2r:129:PHE:O	42:2r:133:SER:OG	2.26	0.41
43:2t:183:ALA:HB1	43:2t:202:TYR:OH	2.20	0.41
44:2w:312:VAL:HG13	44:2w:382:TYR:CD2	2.55	0.41
45:2z:70:PRO:CD	49:3Q:206:VAL:O	2.68	0.41
46:3B:45:SER:O	46:3B:49:SER:OG	2.33	0.41
46:3B:59:ILE:HD11	46:3B:106:PRO:HB2	2.02	0.41
47:3D:193:ARG:HE	47:3D:193:ARG:HB2	1.70	0.41
48:3I:54:SER:OG	48:3I:55:LEU:HD12	2.20	0.41
48:3F:222:ARG:HA	48:3F:225:VAL:HB	2.01	0.41
49:3Q:544:ARG:HD2	49:3Q:544:ARG:HA	1.84	0.41
53:3W:256:ASP:OD2	53:3W:258:ARG:NH2	2.48	0.41
54:3Z:404:LEU:HD23	54:3Z:404:LEU:HA	1.89	0.41
62:4A:429:HIS:HB3	62:4A:431:ASN:OD1	2.21	0.41
62:4B:153:PRO:HA	62:4B:154:PRO:HD3	1.88	0.41
59:4a:190:SER:N	59:4a:191:PRO:HD2	2.35	0.41
64:5B:97:LEU:HD13	65:5G:86:GLU:HG3	2.02	0.41
65:5G:142:PHE:CZ	65:5G:146:LEU:HD11	2.56	0.41
65:5G:178:LYS:HD2	66:5K:270:ILE:HB	2.02	0.41
66:5L:24:GLY:O	66:5L:28:ILE:HG12	2.21	0.41
68:5S:93:LEU:HD12	68:5S:112:ILE:HG23	2.01	0.41
1:A:183:TYR:CE2	1:A:388:MET:HE3	2.55	0.41
1:A:322:SER:HA	2:AA:223:SER:HB2	2.01	0.41
1:AB:325:GLU:HB3	1:AB:329:GLN:OE1	2.20	0.41
2:AC:346:TRP:CE3	2:AC:347:CYS:HB2	2.55	0.41
2:AC:431:ASP:OD1	2:AC:432:TYR:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:100:ASN:HB3	1:AD:103:LYS:HB2	2.02	0.41
2:AE:42:ILE:HG23	26:1Q:84:ASP:HB3	2.01	0.41
2:AE:97:GLU:CD	2:AE:105:ARG:HH22	2.29	0.41
1:AF:174:ARG:NE	1:AF:205:GLU:OE2	2.53	0.41
2:AG:332:ILE:HG22	2:AG:336:LYS:NZ	2.35	0.41
1:AH:73:MET:O	1:AH:77:ARG:HG3	2.21	0.41
2:AI:352:LYS:HD2	2:AI:353:CYS:H	1.85	0.41
2:AK:216:SER:OG	2:AK:275:VAL:HG13	2.20	0.41
1:AL:206:ALA:HB2	1:AL:302:ALA:HB2	2.00	0.41
1:AL:226:ASN:CG	69:AL:500:GDP:HN1	2.26	0.41
1:AL:268:MET:O	1:AL:299:MET:HG3	2.21	0.41
2:AM:188:VAL:HG11	2:AM:395:PHE:CD1	2.55	0.41
1:B:316:LEU:CD2	1:B:352:SER:HB2	2.50	0.41
2:BA:33:ASP:OD2	2:BA:35:SER:N	2.40	0.41
1:BB:50:TYR:CE1	1:BB:241:ARG:HD3	2.55	0.41
2:BG:90:GLU:HB2	2:BG:121:ARG:NH1	2.35	0.41
1:BH:350:LYS:HD3	1:BH:350:LYS:HA	1.71	0.41
2:BI:23:LEU:O	2:BI:27:GLU:HG3	2.20	0.41
2:BI:296:PHE:HZ	2:BI:351:PHE:HE1	1.66	0.41
1:BJ:50:TYR:CD2	1:BJ:241:ARG:HD3	2.55	0.41
1:BJ:217:LEU:HB3	1:BJ:220:PRO:HD3	2.01	0.41
2:BK:36:MET:HG3	2:BK:61:HIS:CE1	2.55	0.41
2:BK:172:TYR:HE2	2:BK:203:MET:HE1	1.85	0.41
2:BK:229:ARG:HH11	2:BK:363:VAL:HG21	1.85	0.41
1:BL:311:LEU:HA	1:BL:342:ILE:HD12	2.01	0.41
1:BN:139:LEU:HD11	1:BN:168:SER:HB2	2.02	0.41
2:C:187:CYS:SG	2:C:391:ILE:HD13	2.60	0.41
2:C:269:LEU:HD23	2:C:269:LEU:H	1.85	0.41
2:C:315:CYS:HB3	2:C:377:MET:HE1	2.02	0.41
2:C:372:GLN:HG2	24:1H:247:PHE:CD2	2.56	0.41
1:CC:135:LEU:HD13	1:CC:151:LEU:HD23	2.02	0.41
1:CC:242:PHE:HB2	1:CC:354:CYS:SG	2.60	0.41
2:CD:103:TYR:HD1	2:CD:147:SER:HB2	1.85	0.41
1:CE:73:MET:HE2	1:CE:90:PHE:HD2	1.85	0.41
2:CF:402:ARG:HD3	2:CF:402:ARG:HA	1.89	0.41
1:CG:268:MET:HA	1:CG:367:PHE:O	2.21	0.41
2:CJ:97:GLU:HG2	2:CJ:105:ARG:HH21	1.84	0.41
2:CJ:181:VAL:O	2:CJ:398:MET:HE1	2.20	0.41
1:CK:45:GLU:HG2	1:CK:46:ARG:HG2	2.02	0.41
2:CL:21:TRP:CZ2	2:CL:65:CYS:HB3	2.55	0.41
2:CL:244:PHE:HB2	2:CL:356:ASN:HD21	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CM:130:LEU:O	1:CM:162:ARG:NH2	2.53	0.41
2:D:24:PHE:HA	2:D:27:GLU:CD	2.45	0.41
2:DB:47:ASP:OD1	2:DB:47:ASP:N	2.53	0.41
2:DB:313:MET:HG2	2:DB:346:TRP:CH2	2.54	0.41
2:DB:352:LYS:HA	1:DC:177:ASP:C	2.46	0.41
1:DC:7:CYS:O	1:DC:135:LEU:HD12	2.20	0.41
1:DC:58:ARG:CZ	1:EB:281:TYR:HE1	2.34	0.41
2:DD:270:THR:OG1	2:DD:302:LEU:HD23	2.20	0.41
2:DD:316:CYS:HB3	2:DD:378:ILE:CG2	2.51	0.41
2:DD:392:ASP:HB2	2:DD:422:ARG:NE	2.35	0.41
1:DE:32:PRO:HB3	1:DE:81:TYR:HA	2.02	0.41
1:DE:385:PHE:HZ	1:DE:408:PHE:HB3	1.85	0.41
2:DF:255:PHE:HA	2:DF:258:ASN:HB2	2.03	0.41
2:DH:70:LEU:HD12	2:DH:99:ALA:HB2	2.00	0.41
2:DH:246:GLY:HA3	2:DH:356:ASN:HA	2.01	0.41
1:DI:207:LEU:HB3	1:DI:225:LEU:HG	2.03	0.41
1:DI:273:LEU:HB2	1:DI:292:GLN:NE2	2.35	0.41
2:DL:326:LYS:HD3	1:DM:220:PRO:HD2	2.02	0.41
2:DL:330:ALA:O	2:DL:334:THR:HG23	2.21	0.41
1:DM:232:VAL:HG21	1:DM:268:MET:HG2	2.03	0.41
1:E:31:ASP:O	1:E:84:LEU:HD21	2.21	0.41
1:E:33:THR:HG22	24:1H:501:PHE:CE1	2.55	0.41
1:E:91:ILE:HD11	1:E:119:VAL:HG11	2.01	0.41
2:EA:316:CYS:HB3	2:EA:378:ILE:CG2	2.50	0.41
2:EC:205:ASP:OD1	2:EC:303:THR:HA	2.19	0.41
2:EC:252:LEU:HD13	2:EC:255:PHE:CE1	2.55	0.41
1:EF:268:MET:HB2	1:EF:300:MET:CG	2.50	0.41
2:EG:234:VAL:HG13	2:EG:376:CYS:SG	2.60	0.41
2:EG:343:PHE:CZ	2:EG:351:PHE:CE1	3.09	0.41
1:EH:51:PHE:HB3	1:EH:59:TYR:HB3	2.01	0.41
1:EH:109:GLY:HA2	1:EH:147:MET:HE3	2.02	0.41
1:EH:386:THR:O	1:EH:390:ARG:HG3	2.20	0.41
2:EI:25:CYS:HB3	2:EI:30:ILE:O	2.20	0.41
2:EK:93:VAL:HG12	2:EK:114:ILE:HD11	2.03	0.41
2:EK:167:LEU:HD23	2:EK:252:LEU:HD12	2.01	0.41
1:EL:67:ASP:CG	1:EL:69:GLU:H	2.28	0.41
1:F:396:HIS:HA	1:F:399:THR:HG22	2.02	0.41
2:FC:26:LEU:HD21	28:4W:50:LYS:HB2	2.02	0.41
1:FD:66:MET:CE	1:FD:151:LEU:HD21	2.43	0.41
1:FD:371:ASN:HD22	1:FD:373:CYS:H	1.67	0.41
2:FG:270:THR:HA	2:FG:377:MET:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:183:TYR:CE2	1:G:388:MET:HE1	2.55	0.41
1:G:330:MET:HE2	1:G:330:MET:HB2	1.78	0.41
1:GB:46:ARG:HG3	1:GB:49:VAL:HG23	2.01	0.41
1:GB:66:MET:HE1	1:GB:91:ILE:HG13	2.01	0.41
1:GB:174:ARG:HH12	1:GB:380:ARG:NH1	2.19	0.41
2:GC:173:PRO:HG3	2:GC:183:GLU:HB3	2.01	0.41
1:GD:305:PRO:HA	1:GD:373:CYS:SG	2.60	0.41
2:GE:215:ARG:NH2	2:GE:299:ALA:O	2.53	0.41
1:GF:253:LEU:O	1:GF:257:LEU:HB2	2.20	0.41
2:GG:167:LEU:HD21	2:GG:255:PHE:CZ	2.55	0.41
2:GI:6:CYS:O	2:GI:7:ILE:HD13	2.20	0.41
1:GJ:21:TRP:CE3	1:GJ:61:PRO:HB3	2.56	0.41
1:GJ:165:MET:HE3	1:GJ:250:LEU:CD1	2.50	0.41
1:GJ:278:SER:O	1:GJ:282:ARG:HG2	2.21	0.41
1:GJ:343:GLU:O	1:GJ:346:PRO:HD3	2.20	0.41
2:GK:75:VAL:HG21	2:GK:94:SER:HB3	2.02	0.41
2:GK:105:ARG:O	2:GK:110:ILE:HG22	2.20	0.41
1:HD:253:LEU:HD21	1:HD:316:LEU:HD11	2.02	0.41
2:HE:70:LEU:HD23	2:HE:145:THR:OG1	2.21	0.41
2:HE:239:THR:HG23	2:HE:243:ARG:HH11	1.86	0.41
1:HF:329:GLN:O	1:HF:333:VAL:HG23	2.21	0.41
2:HG:336:LYS:HD3	2:HG:351:PHE:HE2	1.85	0.41
1:HH:68:LEU:HD12	1:HH:97:ALA:HB2	2.03	0.41
2:HI:195:LEU:HD21	2:HI:264:ARG:NE	2.35	0.41
2:HI:345:ASP:OD1	2:HI:345:ASP:N	2.52	0.41
2:HK:307:PRO:HB3	2:HK:312:TYR:CE1	2.55	0.41
1:HL:129:CYS:SG	2:HM:96:LYS:HE3	2.60	0.41
1:HL:139:LEU:HA	1:HL:145:SER:HB3	2.01	0.41
1:I:20:PHE:O	1:I:23:VAL:HG12	2.20	0.41
1:I:239:CYS:HB3	1:I:248:SER:H	1.84	0.41
1:I:371:ASN:OD1	1:I:372:THR:N	2.54	0.41
2:IA:328:VAL:HG11	2:IA:353:CYS:HB3	2.02	0.41
2:IA:395:PHE:HD2	2:IA:422:ARG:HD3	1.86	0.41
1:IB:68:LEU:HD11	1:IB:108:GLU:HB3	2.01	0.41
2:IC:153:LEU:O	2:IC:157:LEU:HD23	2.21	0.41
1:ID:42:LEU:HD11	1:ID:243:PRO:CD	2.50	0.41
1:ID:245:GLN:O	2:IE:11:GLN:NE2	2.53	0.41
2:IE:5:ILE:HG12	2:IE:132:LEU:HD13	2.02	0.41
1:IF:250:LEU:HD23	1:IF:253:LEU:HD12	2.01	0.41
1:IF:347:ASN:O	2:IG:181:VAL:HG12	2.20	0.41
2:IG:138:PHE:CE2	2:IG:235:VAL:HG21	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IK:174:SER:OG	2:IK:177:VAL:O	2.26	0.41
2:IK:258:ASN:ND2	2:IK:352:LYS:HD3	2.35	0.41
2:IM:316:CYS:HB3	2:IM:378:ILE:HB	2.00	0.41
2:IM:345:ASP:OD2	2:IM:346:TRP:N	2.53	0.41
2:J:338:LYS:HD2	2:J:341:ILE:HD12	2.02	0.41
1:JA:413:SER:OG	60:3r:46:ARG:HB3	2.20	0.41
2:JB:392:ASP:OD1	2:JB:393:HIS:N	2.54	0.41
1:JC:77:ARG:C	17:0m:12:ARG:HH12	2.24	0.41
1:JE:292:GLN:HG2	1:JE:298:ASN:ND2	2.35	0.41
1:JI:190:HIS:HA	1:JI:193:VAL:HG12	2.01	0.41
2:JJ:324:VAL:HG12	2:JJ:326:LYS:H	1.85	0.41
2:JJ:329:ASN:HD21	1:JK:208:TYR:HE2	1.67	0.41
1:JK:11:GLN:O	1:JK:15:GLN:HG3	2.20	0.41
1:JK:54:SER:OG	1:JK:58:ARG:N	2.52	0.41
1:JK:347:ASN:O	2:JL:181:VAL:HG12	2.20	0.41
2:JL:110:ILE:O	2:JL:113:GLU:HG3	2.20	0.41
1:JM:377:MET:CA	1:JM:380:ARG:HG2	2.49	0.41
1:KA:328:GLU:CD	1:KA:332:ASN:HD21	2.29	0.41
1:KA:344:TRP:H	1:KA:344:TRP:CD1	2.37	0.41
1:KE:311:LEU:HD23	1:KE:342:ILE:CD1	2.49	0.41
2:KF:112:LYS:HA	2:KF:115:VAL:HG12	2.02	0.41
1:KG:113:ILE:HG13	1:KG:117:LEU:HD23	2.03	0.41
1:KG:330:MET:HA	1:KG:333:VAL:HG12	2.01	0.41
1:KI:164:MET:H	1:KI:197:ASP:HB2	1.85	0.41
1:KI:166:THR:HG21	1:KI:192:LEU:HD22	2.02	0.41
2:KJ:395:PHE:CD1	2:KJ:422:ARG:HD3	2.54	0.41
1:KK:141:GLY:O	1:KK:145:SER:OG	2.34	0.41
1:KK:143:THR:OG1	69:KK:500:GDP:O2B	2.20	0.41
2:KL:136:MET:SD	2:KL:167:LEU:HD12	2.60	0.41
2:KN:298:PRO:O	2:KN:301:MET:HG2	2.20	0.41
2:KN:301:MET:HE2	2:KN:303:THR:HB	2.03	0.41
2:L:1:MET:HA	2:L:131:GLY:HA3	2.02	0.41
2:L:90:GLU:HB2	2:L:121:ARG:HH12	1.82	0.41
2:L:155:GLU:HA	2:L:197:HIS:ND1	2.34	0.41
2:LD:425:LEU:O	2:LD:429:GLU:HG2	2.20	0.41
1:LG:331:LEU:HD12	2:LH:176:GLN:O	2.20	0.41
2:LH:62:VAL:HG21	2:MG:283:HIS:O	2.21	0.41
2:LH:81:GLY:O	2:LH:84:ARG:NH1	2.46	0.41
2:LH:178:SER:HB2	2:LH:183:GLU:OE1	2.20	0.41
1:LI:215:LEU:HB2	1:LI:217:LEU:HG	2.02	0.41
1:LK:173:PRO:HD2	1:LK:174:ARG:NH1	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LK:409:THR:HG21	48:3H:70:PHE:CE1	2.51	0.41
1:LK:424:GLN:HA	1:LK:427:ASP:OD1	2.20	0.41
2:LL:297:GLU:CD	2:LL:298:PRO:HD2	2.44	0.41
2:LL:332:ILE:HG22	2:LL:336:LYS:NZ	2.36	0.41
2:LN:301:MET:HE2	2:LN:303:THR:HB	2.02	0.41
1:LO:3:GLU:O	1:LO:131:GLN:N	2.53	0.41
1:LO:233:MET:O	1:LO:236:VAL:HG12	2.20	0.41
1:M:22:GLU:HG2	1:M:81:TYR:CD1	2.55	0.41
2:MA:124:LYS:NZ	2:MA:124:LYS:HB2	2.35	0.41
1:MB:152:ILE:HG22	1:MB:195:ASN:HB3	2.02	0.41
2:MC:9:ILE:HD13	2:MC:137:VAL:HG13	2.02	0.41
2:MC:328:VAL:O	2:MC:332:ILE:HG12	2.20	0.41
2:ME:70:LEU:HD23	2:ME:70:LEU:HA	1.90	0.41
2:ME:257:THR:HA	1:MF:397:TRP:NE1	2.35	0.41
1:MF:3:GLU:H	1:MF:131:GLN:H	1.68	0.41
1:MF:21:TRP:CZ3	1:MF:61:PRO:HB3	2.54	0.41
1:MF:313:ALA:HB1	1:MF:367:PHE:CE1	2.55	0.41
1:MH:232:VAL:HG11	1:MH:268:MET:HE2	2.02	0.41
1:MJ:324:LYS:O	1:MJ:327:ASP:N	2.51	0.41
1:MN:386:THR:O	1:MN:390:ARG:HG3	2.20	0.41
1:N:267:MET:HE1	1:N:301:GLN:HB3	2.02	0.41
1:NB:304:ASP:HB3	1:NB:307:HIS:ND1	2.35	0.41
1:ND:85:PHE:HB2	1:ND:90:PHE:CE1	2.55	0.41
1:NH:268:MET:HE3	1:NH:268:MET:HA	2.02	0.41
2:NI:175:PRO:HG3	2:NI:390:ARG:NH1	2.36	0.41
1:NJ:63:ALA:O	1:NJ:89:ASN:ND2	2.50	0.41
1:NJ:322:SER:OG	1:NJ:325:GLU:OE1	2.29	0.41
2:NK:349:THR:HB	1:NL:176:SER:OG	2.20	0.41
2:NM:201:ALA:O	2:NM:268:VAL:HG12	2.20	0.41
1:O:267:MET:O	1:O:368:ILE:HG23	2.20	0.41
2:OA:212:LEU:HD21	2:OA:275:VAL:HG11	2.02	0.41
2:OC:59:GLY:HA3	41:2k:190:TRP:CE3	2.55	0.41
1:OD:415:MET:HE2	1:OD:415:MET:HA	2.02	0.41
2:OI:3:GLU:HA	2:OI:51:THR:HA	2.02	0.41
1:OL:355:ASP:OD2	28:1h:145:THR:N	2.33	0.41
2:OM:392:ASP:CG	2:OM:422:ARG:HH22	2.28	0.41
1:P:19:LYS:O	1:P:22:GLU:HB2	2.21	0.41
2:PA:50:ASN:O	2:PA:64:ARG:NH1	2.54	0.41
2:PA:185:TYR:OH	2:PA:403:ALA:O	2.36	0.41
2:PA:253:THR:HA	2:PA:256:GLN:HB3	2.02	0.41
1:PB:135:LEU:HD13	1:PB:152:ILE:HG13	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PC:7:ILE:HG22	2:PC:9:ILE:HD11	2.02	0.41
2:PC:275:VAL:O	2:PC:275:VAL:HG13	2.20	0.41
2:PC:326:LYS:CG	1:PD:220:PRO:HD2	2.50	0.41
1:PD:62:ARG:HG2	1:PD:123:GLU:OE2	2.20	0.41
2:PG:145:THR:N	71:PG:501:GTP:O3G	2.40	0.41
2:PG:232:GLY:HA2	2:PG:235:VAL:HG12	2.03	0.41
1:PH:97:ALA:O	1:PH:100:ASN:HB2	2.20	0.41
2:PI:227:VAL:HG11	71:PI:501:GTP:HN21	1.85	0.41
2:PI:331:ALA:HA	2:PI:334:THR:HG22	2.03	0.41
1:PJ:331:LEU:HD22	2:PK:177:VAL:HG13	2.01	0.41
2:PK:188:VAL:HG21	2:PK:395:PHE:HB2	2.02	0.41
2:PK:311:LYS:HE2	2:PK:344:VAL:HG12	2.02	0.41
2:PM:367:ASP:OD1	41:2l:262:ARG:NH2	2.50	0.41
2:PM:431:ASP:OD1	2:PM:432:TYR:N	2.53	0.41
2:Q:48:ALA:HB1	2:Q:244:PHE:HE1	1.85	0.41
1:QA:117:LEU:HD11	1:QA:154:LYS:HB3	2.02	0.41
1:QA:329:GLN:O	1:QA:333:VAL:HG13	2.21	0.41
2:QB:276:VAL:HG23	2:QB:280:LYS:HG3	2.02	0.41
2:QD:220:GLU:C	2:QD:221:ARG:HD2	2.44	0.41
2:QF:105:ARG:NH2	2:QF:110:ILE:HD13	2.35	0.41
2:QF:331:ALA:O	2:QF:335:ILE:HG12	2.21	0.41
2:QF:431:ASP:CA	58:3m:53:ARG:HH21	2.32	0.41
1:QG:203:ASP:OD2	1:QG:302:ALA:HB3	2.21	0.41
2:QH:21:TRP:CZ2	2:QH:65:CYS:HB3	2.55	0.41
2:QH:340:THR:HG21	59:4b:8:LEU:HB3	2.01	0.41
1:QI:32:PRO:HG3	1:QI:81:TYR:CE1	2.55	0.41
2:QJ:52:PHE:HZ	2:QJ:239:THR:HG21	1.84	0.41
2:QJ:187:CYS:O	2:QJ:191:THR:HG23	2.20	0.41
1:QK:178:THR:OG1	1:QK:181:GLU:HG3	2.20	0.41
2:R:212:LEU:HD11	2:R:275:VAL:HG11	2.02	0.41
1:RA:175:VAL:HG21	1:RA:205:GLU:HB2	2.01	0.41
1:RA:185:THR:O	1:RA:189:VAL:HG22	2.20	0.41
1:RC:4:ILE:HD11	1:RC:240:LEU:HD12	2.02	0.41
1:RC:310:TYR:O	1:RC:348:ASN:ND2	2.53	0.41
1:RC:342:ILE:HG22	1:RC:348:ASN:ND2	2.36	0.41
2:RF:201:ALA:O	2:RF:268:VAL:HG22	2.20	0.41
2:RF:220:GLU:C	2:RF:222:PRO:HD3	2.46	0.41
1:RG:139:LEU:HD12	1:RG:170:ILE:CG2	2.50	0.41
2:RH:138:PHE:HE2	2:RH:235:VAL:HG21	1.84	0.41
2:RH:296:PHE:CZ	2:RH:335:ILE:HG21	2.55	0.41
1:RI:27:GLU:OE1	1:RI:241:ARG:NH1	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RI:172:SER:HB2	1:RI:175:VAL:H	1.84	0.41
1:RK:258:VAL:HG23	2:RL:407:TRP:HE1	1.85	0.41
2:RL:231:ILE:O	2:RL:235:VAL:HG23	2.20	0.41
2:RL:338:LYS:HE3	2:RL:338:LYS:HB3	1.85	0.41
1:S:73:MET:HE3	1:S:73:MET:HA	2.02	0.41
2:SA:3:GLU:O	2:SA:133:GLN:N	2.37	0.41
2:SA:166:LYS:N	2:SA:199:ASP:OD2	2.53	0.41
2:SA:422:ARG:NH1	2:SA:426:ALA:HB2	2.36	0.41
2:SC:89:PRO:CD	2:TC:283:HIS:HD1	2.33	0.41
2:SC:213:THR:HA	2:SC:217:LEU:HB2	2.02	0.41
2:SC:426:ALA:O	2:SC:430:LYS:HG2	2.20	0.41
1:SD:13:GLY:O	1:SD:16:ILE:HG22	2.20	0.41
2:SE:209:ILE:HG21	2:SE:227:VAL:HG13	2.01	0.41
1:SF:138:SER:HA	1:SF:169:VAL:HB	2.02	0.41
2:SG:241:SER:HB2	2:SG:318:MET:HE1	2.02	0.41
2:SK:90:GLU:OE1	2:SK:91:GLN:N	2.53	0.41
2:TA:384:ILE:HD11	2:TA:432:TYR:OH	2.21	0.41
1:TD:13:GLY:HA2	1:TD:16:ILE:HG22	2.03	0.41
1:TD:60:VAL:HG23	1:TD:84:LEU:O	2.20	0.41
2:TE:105:ARG:HG3	2:TE:109:THR:HB	2.02	0.41
2:TE:276:VAL:HA	2:TE:280:LYS:HZ3	1.86	0.41
1:TH:148:GLY:O	1:TH:152:ILE:HG12	2.20	0.41
1:TJ:119:VAL:O	1:TJ:123:GLU:HG2	2.20	0.41
1:TJ:323:THR:HG21	2:TK:224:TYR:CZ	2.56	0.41
2:TK:220:GLU:O	2:TK:221:ARG:HD3	2.19	0.41
1:TL:44:LEU:HD21	1:TL:59:TYR:CE2	2.55	0.41
2:UC:86:LEU:HB2	53:3W:249:TYR:CD1	2.55	0.41
1:UD:386:THR:O	1:UD:390:ARG:HG3	2.21	0.41
2:UE:238:LEU:HD23	2:UE:318:MET:HG3	2.03	0.41
2:UE:291:ILE:O	2:UE:295:VAL:HG23	2.19	0.41
1:UF:175:VAL:O	1:UF:175:VAL:HG12	2.19	0.41
1:UF:247:ASN:O	1:UF:252:LYS:NZ	2.49	0.41
1:UH:222:PHE:CD1	1:UH:225:LEU:HD12	2.52	0.41
1:UH:313:ALA:HB3	1:UH:349:ILE:HG13	2.02	0.41
1:UJ:203:ASP:OD1	1:UJ:301:GLN:HA	2.19	0.41
1:V:167:PHE:CG	1:V:233:MET:HE2	2.55	0.41
1:VB:20:PHE:HZ	1:VB:50:TYR:CE1	2.38	0.41
2:VC:55:GLU:HB2	13:0Y:244:PRO:HD2	2.02	0.41
2:VE:71:GLU:HB3	2:VE:98:ASP:HB2	2.01	0.41
2:VE:269:LEU:HD13	2:VE:301:MET:HE1	2.02	0.41
2:VG:154:LEU:HD23	2:VG:154:LEU:HA	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VG:217:LEU:HD11	2:VG:368:LEU:HD23	2.02	0.41
1:VJ:247:ASN:N	2:VK:11:GLN:HE22	1.98	0.41
1:VL:295:ASP:CG	1:VL:297:LYS:HG2	2.45	0.41
1:VL:406:MET:HA	1:VL:409:THR:HG22	2.01	0.41
2:VM:209:ILE:HG21	2:VM:227:VAL:HG13	2.02	0.41
2:VM:212:LEU:HD21	2:VM:275:VAL:HG21	2.01	0.41
1:W:199:SER:O	1:W:265:PHE:HA	2.20	0.41
1:W:211:CYS:HB3	1:W:220:PRO:HB3	2.02	0.41
1:W:327:ASP:HB3	2:WA:177:VAL:CG1	2.50	0.41
2:WC:169:TYR:HE1	2:WC:235:VAL:HG23	1.86	0.41
2:WE:75:VAL:HG11	2:WE:94:SER:HB2	2.01	0.41
2:WG:315:CYS:SG	2:WG:377:MET:HE3	2.60	0.41
1:WH:58:ARG:NH2	1:WH:83:GLN:O	2.54	0.41
2:WI:39:ASP:OD1	9:0N:231:ALA:HB2	2.20	0.41
2:WI:425:LEU:O	2:WI:429:GLU:OE1	2.38	0.41
1:WJ:229:VAL:O	1:WJ:233:MET:HG3	2.20	0.41
1:WJ:324:LYS:HE3	2:WK:210:TYR:CD1	2.55	0.41
2:WK:104:ALA:HB2	2:WK:413:MET:HE2	2.02	0.41
1:WL:256:ASN:CG	1:WL:350:LYS:HD2	2.45	0.41
5:XN:290:LEU:HA	5:XN:293:ARG:HG2	2.02	0.41
4:XO:121:THR:HG22	4:XO:123:PHE:N	2.35	0.41
8:0I:135:ILE:HD12	8:0J:461:GLU:OE1	2.20	0.41
9:0M:208:GLU:OE2	9:0M:212:LYS:HB3	2.21	0.41
9:0M:322:CYS:O	9:0M:349:ARG:NH1	2.47	0.41
9:0N:212:LYS:HD3	9:0N:213:TYR:CE1	2.55	0.41
9:0N:443:ASP:OD1	9:0N:443:ASP:N	2.53	0.41
9:0O:306:LEU:HB2	9:0O:320:LEU:HB3	2.01	0.41
12:0W:52:ARG:HE	12:0W:52:ARG:HB3	1.70	0.41
12:0W:115:LEU:HG	12:0W:167:PHE:CE2	2.55	0.41
14:0d:90:VAL:O	14:0d:94:VAL:HG23	2.20	0.41
17:0n:352:LYS:O	17:0n:356:ILE:HG12	2.19	0.41
21:0w:343:SER:O	21:0w:347:LYS:HG3	2.20	0.41
21:0x:521:MET:HE2	21:0x:525:LEU:HB3	2.01	0.41
23:1A:75:GLU:OE2	23:1A:78:ARG:NE	2.53	0.41
23:1A:180:ARG:HB3	23:1A:180:ARG:CZ	2.50	0.41
23:1E:83:GLU:OE1	44:2w:368:ARG:NH2	2.47	0.41
24:1I:746:LEU:O	24:1I:750:THR:HG23	2.20	0.41
24:1J:13:PHE:CD2	44:2w:124:GLN:HG2	2.55	0.41
24:1J:345:ILE:HG13	24:1J:361:TYR:CE1	2.55	0.41
24:1K:261:TRP:HB2	24:1K:356:VAL:HG22	2.03	0.41
24:1K:518:HIS:C	24:1K:520:PRO:HD3	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:1K:528:ILE:HD12	24:1K:528:ILE:HA	1.94	0.41
25:1O:24:PRO:HG3	45:2y:401:PRO:HB3	2.02	0.41
25:1O:515:LYS:HD3	25:1O:525:PHE:HD1	1.86	0.41
26:1Q:661:LEU:HD21	26:1Q:668:ARG:HH21	1.84	0.41
27:1S:49:LYS:HZ3	27:1S:49:LYS:HG3	1.66	0.41
27:1S:70:ASN:C	27:1S:70:ASN:ND2	2.78	0.41
27:1S:238:ASP:HB3	27:1S:241:PHE:HB2	2.02	0.41
28:1h:24:GLU:HB3	41:2o:359:MET:HG3	2.01	0.41
31:1q:17:CYS:HA	31:1q:61:TYR:O	2.20	0.41
31:1s:42:ALA:HB3	31:1s:43:PRO:HD3	2.01	0.41
22:1w:59:LEU:HD11	48:3F:45:GLU:HG3	2.03	0.41
22:1x:190:HIS:CG	48:3G:108:LEU:HD21	2.56	0.41
22:1y:58:LYS:HA	22:1y:61:THR:HG22	2.03	0.41
22:1y:144:LYS:O	33:2I:221:GLU:HG2	2.20	0.41
33:2F:63:TYR:HE1	33:2F:87:PHE:HZ	1.68	0.41
41:2e:166:LYS:HA	41:2e:169:GLU:OE1	2.21	0.41
41:2i:443:GLU:HB3	41:2i:447:ARG:HH22	1.85	0.41
44:2w:238:ARG:HH11	44:2w:238:ARG:HG2	1.85	0.41
45:2z:25:PRO:HD2	45:2z:31:LEU:HD23	2.02	0.41
47:3D:46:ASN:OD1	47:3D:49:GLU:HB3	2.20	0.41
47:3D:54:ALA:O	47:3D:113:ARG:NH1	2.53	0.41
57:3f:122:ARG:O	57:3f:125:GLU:HG3	2.20	0.41
57:3g:127:ASN:O	57:3g:131:MET:HB2	2.21	0.41
57:3i:109:ARG:O	57:3i:110:ARG:C	2.63	0.41
66:5L:186:PHE:CZ	66:5L:190:VAL:HG21	2.55	0.41
66:5L:231:ILE:HA	66:5L:256:VAL:HA	2.01	0.41
67:5P:102:VAL:O	67:5P:102:VAL:HG12	2.20	0.41
1:AB:87:PRO:HD3	1:BB:281:TYR:CD2	2.55	0.41
1:AB:320:ARG:NE	54:3Z:247:THR:HG22	2.35	0.41
2:AC:212:LEU:HD13	2:AC:300:GLY:HA2	2.02	0.41
2:AE:265:ILE:HG21	2:AE:313:MET:HE1	2.02	0.41
1:AF:52:ASP:OD2	1:AF:52:ASP:N	2.53	0.41
1:AF:174:ARG:HB2	1:AF:205:GLU:OE2	2.21	0.41
2:AI:26:LEU:HA	54:3a:90:ARG:NH2	2.36	0.41
1:AJ:175:VAL:O	1:AJ:175:VAL:HG12	2.20	0.41
2:AK:2:ARG:NH1	2:AK:2:ARG:HB2	2.36	0.41
2:AK:85:GLN:NE2	2:BK:282:TYR:OH	2.43	0.41
2:AM:69:ASP:OD2	2:AM:70:LEU:N	2.53	0.41
1:B:152:ILE:HG22	1:B:195:ASN:HB2	2.02	0.41
1:B:204:ASN:C	1:B:204:ASN:ND2	2.75	0.41
1:BB:385:PHE:HZ	1:BB:408:PHE:HB3	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BD:240:LEU:HD11	1:BD:250:LEU:HD23	2.01	0.41
1:BD:244:GLY:H	1:BD:247:ASN:HD21	1.68	0.41
1:BF:28:HIS:NE2	1:BF:241:ARG:HD2	2.35	0.41
1:BF:309:ARG:NH1	1:BF:426:GLN:O	2.54	0.41
1:BF:324:LYS:HD3	2:BG:210:TYR:CG	2.54	0.41
2:BG:24:PHE:HA	2:BG:27:GLU:HG2	2.02	0.41
2:BG:318:MET:O	2:BG:375:VAL:HA	2.20	0.41
2:BG:402:ARG:HB2	2:BG:402:ARG:CZ	2.50	0.41
1:BH:3:GLU:HA	1:BH:49:VAL:HA	2.02	0.41
1:BH:244:GLY:HA3	1:BH:354:CYS:HA	2.02	0.41
1:BH:325:GLU:O	1:BH:329:GLN:HG3	2.20	0.41
2:BI:331:ALA:O	2:BI:334:THR:HG22	2.20	0.41
2:BK:392:ASP:OD1	2:BK:422:ARG:NH2	2.54	0.41
2:BM:259:LEU:HD21	2:BM:378:ILE:HG13	2.01	0.41
2:BM:352:LYS:HA	2:BM:352:LYS:HE2	2.03	0.41
2:C:271:SER:HA	2:C:302:LEU:HG	2.03	0.41
1:CA:386:THR:O	1:CA:390:ARG:HG3	2.20	0.41
1:CA:424:GLN:HA	1:CA:427:ASP:OD1	2.20	0.41
1:CE:323:THR:HG21	2:CF:224:TYR:CE1	2.55	0.41
2:CH:228:ASN:OD1	71:CH:501:GTP:N1	2.43	0.41
1:CK:187:LEU:O	1:CK:190:HIS:NE2	2.53	0.41
1:CK:324:LYS:NZ	2:CL:222:PRO:HD2	2.35	0.41
1:CM:7:CYS:HB3	1:CM:66:MET:HE2	2.02	0.41
1:CM:21:TRP:CZ3	1:CM:61:PRO:HB3	2.56	0.41
1:CM:424:GLN:HA	1:CM:427:ASP:OD1	2.19	0.41
2:D:147:SER:HB2	2:D:190:SER:HB2	2.02	0.41
2:D:232:GLY:HA2	2:D:235:VAL:HG22	2.03	0.41
1:DA:22:GLU:HG2	1:DA:81:TYR:CD1	2.55	0.41
1:DA:186:THR:HA	1:DA:415:MET:SD	2.59	0.41
1:DA:347:ASN:C	1:DA:347:ASN:HD22	2.28	0.41
2:DB:20:CYS:HB3	2:DB:24:PHE:CE2	2.55	0.41
2:DB:271:SER:HA	2:DB:302:LEU:HD23	2.01	0.41
2:DB:275:VAL:HG23	2:DB:368:LEU:HD11	2.03	0.41
1:DC:186:THR:HG21	1:DC:385:PHE:CE2	2.55	0.41
2:DD:167:LEU:HD21	2:DD:255:PHE:HZ	1.85	0.41
2:DD:301:MET:HE1	2:DD:307:PRO:CG	2.50	0.41
1:DE:189:VAL:HG12	1:DE:415:MET:HE1	2.02	0.41
2:DF:169:TYR:HB3	2:DF:204:LEU:HD11	2.03	0.41
1:DI:31:ASP:OD1	1:DI:35:THR:N	2.51	0.41
2:DL:75:VAL:O	2:DL:79:ARG:HG3	2.20	0.41
1:DM:101:TRP:CZ3	1:DM:187:LEU:HD23	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DM:263:LEU:HD23	1:DM:311:LEU:HD13	2.01	0.41
1:E:22:GLU:HG2	1:E:81:TYR:CG	2.55	0.41
1:EB:327:ASP:HB3	2:EC:177:VAL:HG13	2.02	0.41
2:EC:21:TRP:CZ3	2:EC:52:PHE:HB3	2.55	0.41
2:EC:195:LEU:HD21	2:EC:264:ARG:NH1	2.35	0.41
1:ED:164:MET:H	1:ED:197:ASP:HB2	1.85	0.41
1:ED:274:THR:OG1	1:ED:279:GLN:OE1	2.37	0.41
2:EE:75:VAL:HG11	2:EE:94:SER:HB3	2.01	0.41
2:EE:246:GLY:HA3	2:EE:356:ASN:HA	2.02	0.41
2:EG:182:VAL:HG21	2:EG:408:TYR:HE1	1.85	0.41
2:EG:408:TYR:HB3	2:EG:413:MET:HE3	2.02	0.41
1:EJ:44:LEU:HD23	1:EJ:44:LEU:HA	1.95	0.41
1:EJ:98:GLY:HA3	1:EJ:103:LYS:HE2	2.01	0.41
1:EJ:153:SER:HA	1:EJ:195:ASN:ND2	2.36	0.41
1:EJ:263:LEU:HD13	1:EJ:422:TYR:CE1	2.55	0.41
1:EL:229:VAL:O	1:EL:232:VAL:HG22	2.19	0.41
1:F:187:LEU:HD21	1:F:408:PHE:HE1	1.85	0.41
1:FB:182:PRO:HD2	1:FB:388:MET:HE1	2.03	0.41
1:FB:239:CYS:HB3	1:FB:248:SER:H	1.85	0.41
2:FC:191:THR:HG21	2:FC:425:LEU:HD13	2.03	0.41
1:FD:267:MET:HE3	1:FD:299:MET:SD	2.61	0.41
1:FD:320:ARG:CZ	28:4W:75:LYS:HB3	2.50	0.41
1:FD:333:VAL:HG22	63:4I:313:PRO:HD2	2.02	0.41
2:FE:353:CYS:HB2	1:FF:177:ASP:HB2	2.02	0.41
1:FF:20:PHE:CG	1:FF:233:MET:HE2	2.55	0.41
1:FF:181:GLU:CD	1:FF:182:PRO:HD3	2.45	0.41
2:FG:70:LEU:HD22	2:FG:99:ALA:HB2	2.02	0.41
2:FK:5:ILE:HB	2:FK:135:PHE:CD1	2.55	0.41
1:FL:152:ILE:HG23	1:FL:164:MET:HE2	2.00	0.41
1:FL:171:PRO:HB2	1:FL:181:GLU:OE2	2.21	0.41
1:FL:342:ILE:HD12	1:FL:345:ILE:HD12	2.02	0.41
1:G:134:GLN:OE1	1:G:165:MET:HG3	2.21	0.41
1:G:251:ARG:NE	2:GA:105:ARG:HH12	2.17	0.41
1:GB:268:MET:HA	1:GB:268:MET:CE	2.49	0.41
1:GB:322:SER:HB2	2:GC:222:PRO:O	2.20	0.41
2:GC:252:LEU:HD13	2:GC:255:PHE:CE2	2.55	0.41
2:GC:324:VAL:HG22	2:GC:326:LYS:H	1.85	0.41
1:GD:113:ILE:HG12	1:GD:117:LEU:CD2	2.51	0.41
2:GG:7:ILE:HB	2:GG:137:VAL:HG12	2.01	0.41
1:GH:101:TRP:CE3	1:GH:187:LEU:HD23	2.55	0.41
1:GJ:116:VAL:HG21	1:GJ:147:MET:CE	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GJ:193:VAL:HG23	1:GJ:265:PHE:HE1	1.85	0.41
1:GJ:341:PHE:HB3	1:GJ:348:ASN:OD1	2.20	0.41
1:GJ:415:MET:O	1:GJ:419:VAL:HG23	2.21	0.41
1:GL:282:ARG:HH21	1:GL:288:GLU:HB3	1.85	0.41
1:H:347:ASN:C	1:H:347:ASN:HD22	2.27	0.41
2:HC:271:SER:HB2	2:HC:301:MET:HA	2.01	0.41
1:HD:253:LEU:HB3	1:HD:257:LEU:HD12	2.03	0.41
1:HD:264:HIS:O	1:HD:264:HIS:ND1	2.53	0.41
2:HE:177:VAL:HG12	2:HE:207:GLU:OE2	2.21	0.41
2:HE:425:LEU:O	2:HE:429:GLU:OE1	2.38	0.41
1:HF:221:THR:OG1	1:HF:222:PHE:N	2.53	0.41
2:HG:90:GLU:HB2	2:HG:121:ARG:NH1	2.36	0.41
1:HH:309:ARG:HD2	1:HH:342:ILE:HA	2.03	0.41
1:HJ:20:PHE:O	1:HJ:24:ILE:HG12	2.21	0.41
1:HJ:204:ASN:O	1:HJ:208:TYR:HD1	2.03	0.41
2:HK:84:ARG:CZ	7:0D:236:PHE:HE1	2.34	0.41
2:HK:386:GLU:O	2:HK:390:ARG:HG2	2.20	0.41
2:HM:175:PRO:HD3	2:HM:390:ARG:NH2	2.35	0.41
2:IC:70:LEU:HD12	2:IC:99:ALA:HB2	2.03	0.41
2:IC:164:LYS:HE2	2:IC:164:LYS:HB2	1.88	0.41
1:ID:10:GLY:O	1:ID:14:ASN:ND2	2.53	0.41
1:ID:252:LYS:HZ1	2:IE:101:ASN:CG	2.28	0.41
2:IE:68:LEU:HD23	2:IE:149:LEU:HD21	2.01	0.41
1:IF:10:GLY:O	1:IF:14:ASN:HB2	2.21	0.41
2:IK:215:ARG:NH1	2:IK:216:SER:HG	2.18	0.41
1:IL:255:VAL:HG23	2:IM:407:TRP:CG	2.55	0.41
1:IL:375:GLN:CD	1:IL:423:GLN:HB3	2.45	0.41
1:IL:378:PHE:HA	1:IL:381:VAL:HG12	2.03	0.41
2:IM:209:ILE:HG13	2:IM:227:VAL:HG13	2.02	0.41
2:J:25:CYS:HA	2:J:30:ILE:HG22	2.01	0.41
2:J:174:SER:HB2	2:J:207:GLU:CD	2.45	0.41
2:J:289:ALA:HA	2:J:331:ALA:HB2	2.03	0.41
1:JA:364:SER:OG	1:JA:365:VAL:N	2.53	0.41
1:JC:91:ILE:HD12	1:JC:116:VAL:HG22	2.01	0.41
2:JF:31:GLN:NE2	2:JF:37:PRO:HG3	2.35	0.41
2:JF:69:ASP:OD1	2:JF:70:LEU:N	2.53	0.41
2:JF:151:ALA:O	2:JF:155:GLU:OE1	2.38	0.41
2:JH:31:GLN:HE21	2:JH:37:PRO:HD2	1.86	0.41
2:JH:215:ARG:HH12	2:JH:299:ALA:HB1	1.85	0.41
2:JH:275:VAL:O	2:JH:275:VAL:HG13	2.19	0.41
1:JI:385:PHE:CE2	1:JI:412:GLU:HB2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JJ:1:MET:HE3	2:JJ:2:ARG:H	1.85	0.41
2:JJ:217:LEU:HG	2:JJ:219:ILE:CD1	2.49	0.41
2:JJ:232:GLY:HA2	2:JJ:235:VAL:HG22	2.02	0.41
2:JJ:241:SER:OG	2:JJ:250:VAL:O	2.26	0.41
2:JJ:311:LYS:HD2	2:JJ:344:VAL:HA	2.01	0.41
1:JK:218:THR:HG22	49:3Q:21:ASP:OD1	2.20	0.41
1:JK:372:THR:HG21	1:JK:426:GLN:HA	2.02	0.41
2:JL:22:GLU:OE1	52:3U:234:TYR:HD1	2.03	0.41
2:JL:67:PHE:HB2	2:JL:92:LEU:HA	2.02	0.41
2:JL:312:TYR:HD2	2:JL:315:CYS:SG	2.43	0.41
2:K:150:GLY:O	2:K:154:LEU:HD23	2.21	0.41
2:K:229:ARG:O	2:K:233:GLN:HG2	2.20	0.41
2:KB:169:TYR:CZ	2:KB:235:VAL:HG22	2.56	0.41
1:KG:161:ASP:OD2	35:2O:5:ARG:NH2	2.53	0.41
1:KI:42:LEU:HD22	1:KI:356:ILE:HD11	2.02	0.41
2:KJ:102:ASN:HB3	2:KJ:105:ARG:HB3	2.02	0.41
1:KK:23:VAL:O	1:KK:27:GLU:HG3	2.19	0.41
1:KK:48:ASN:O	1:KK:62:ARG:NH2	2.54	0.41
1:KM:326:VAL:O	1:KM:330:MET:HG3	2.20	0.41
2:KN:217:LEU:HB3	2:KN:219:ILE:HG12	2.02	0.41
2:L:155:GLU:HG2	2:L:197:HIS:NE2	2.36	0.41
2:L:214:ARG:HG2	2:L:215:ARG:HD2	2.02	0.41
2:L:236:SER:HA	2:L:239:THR:HG22	2.02	0.41
1:LE:359:LYS:HE3	45:2y:288:TRP:CH2	2.55	0.41
1:LG:7:CYS:O	1:LG:135:LEU:HA	2.19	0.41
1:LG:134:GLN:NE2	1:LG:233:MET:HE3	2.34	0.41
1:LG:346:PRO:HB2	2:LH:394:LYS:HE3	2.03	0.41
2:LH:213:THR:O	2:LH:218:ASP:N	2.53	0.41
1:LI:174:ARG:H	1:LI:174:ARG:HG2	1.70	0.41
1:LI:180:VAL:HB	1:LI:398:TYR:OH	2.21	0.41
1:LI:186:THR:HG21	1:LI:385:PHE:CG	2.55	0.41
2:LJ:5:ILE:HD13	2:LJ:5:ILE:HA	1.93	0.41
1:LK:133:PHE:HB2	1:LK:164:MET:SD	2.60	0.41
2:LL:252:LEU:HA	2:LL:255:PHE:CE1	2.55	0.41
1:LM:73:MET:HB3	1:LM:77:ARG:HH21	1.86	0.41
1:LO:320:ARG:NH2	29:1m:188:GLU:O	2.53	0.41
2:MA:3:GLU:O	2:MA:133:GLN:N	2.38	0.41
1:MB:193:VAL:HG11	1:MB:262:ARG:HH21	1.86	0.41
1:MB:237:THR:O	1:MB:241:ARG:HG3	2.20	0.41
2:MC:160:ASP:OD1	2:MC:160:ASP:N	2.54	0.41
2:MC:407:TRP:HZ3	4:XM:81:CYS:HB2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MD:139:LEU:HA	1:MD:145:SER:HB3	2.02	0.41
2:ME:298:PRO:HB2	33:2G:181:ILE:HG22	2.02	0.41
1:MH:130:LEU:O	1:MH:162:ARG:HG2	2.20	0.41
2:MI:319:TYR:CD1	2:MI:323:VAL:HG11	2.55	0.41
1:MJ:12:CYS:SG	1:MJ:138:SER:HB2	2.60	0.41
1:MJ:110:ALA:O	1:MJ:113:ILE:HG22	2.19	0.41
2:MK:96:LYS:HD2	2:MK:96:LYS:HA	1.78	0.41
2:MK:223:SER:O	2:MK:227:VAL:HG23	2.21	0.41
1:ML:359:LYS:HD3	1:ML:360:GLY:N	2.35	0.41
1:N:48:ASN:O	1:N:62:ARG:NH1	2.47	0.41
1:N:105:HIS:HD2	1:N:106:TYR:CE1	2.39	0.41
1:N:419:VAL:O	1:N:423:GLN:HG2	2.20	0.41
2:NA:195:LEU:HD11	2:NA:264:ARG:HE	1.84	0.41
1:NB:67:ASP:O	1:NB:92:PHE:HA	2.21	0.41
1:NB:91:ILE:HD11	1:NB:119:VAL:HG11	2.01	0.41
2:NC:11:GLN:N	71:NC:501:GTP:O2B	2.52	0.41
2:NC:40:LYS:HA	2:NC:40:LYS:HD2	1.89	0.41
1:ND:99:ASN:HD21	1:ND:178:THR:HG23	1.86	0.41
1:NF:242:PHE:HB2	1:NF:354:CYS:SG	2.60	0.41
1:NF:332:ASN:O	1:NF:336:LYS:HG2	2.20	0.41
2:NG:169:TYR:CZ	2:NG:235:VAL:HG23	2.55	0.41
2:NG:232:GLY:HA2	2:NG:235:VAL:HG12	2.01	0.41
2:NI:40:LYS:HA	2:NI:40:LYS:HD2	1.88	0.41
2:NI:53:PHE:HB3	2:NI:61:HIS:HB3	2.03	0.41
2:NI:189:LEU:HD13	2:NI:413:MET:HE1	2.01	0.41
2:NI:251:ASP:H	2:NI:254:GLU:CB	2.34	0.41
2:NI:288:VAL:HG11	2:NI:327:ASP:HB3	2.02	0.41
1:NJ:423:GLN:O	1:NJ:426:GLN:HG2	2.20	0.41
2:NK:187:CYS:O	2:NK:191:THR:HG23	2.20	0.41
2:NK:288:VAL:HA	2:NK:291:ILE:HG12	2.01	0.41
1:NL:331:LEU:HD11	2:NM:176:GLN:HB3	2.03	0.41
1:NL:376:GLU:HG2	1:NL:379:ARG:HH22	1.85	0.41
2:NM:169:TYR:HB3	2:NM:204:LEU:HD11	2.02	0.41
2:NM:209:ILE:HG13	2:NM:230:LEU:HD23	2.03	0.41
1:O:103:LYS:HE3	1:O:103:LYS:HB2	1.86	0.41
1:O:210:ILE:HG23	1:O:214:THR:HB	2.02	0.41
1:O:239:CYS:HB2	1:O:248:SER:O	2.20	0.41
2:OA:384:ILE:O	2:OA:387:VAL:HG12	2.20	0.41
1:OB:388:MET:HE2	1:OB:388:MET:HB3	1.95	0.41
2:OE:256:GLN:HG2	1:OF:397:TRP:CH2	2.56	0.41
2:OE:258:ASN:ND2	1:OF:99:ASN:HD21	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OG:275:VAL:HG13	2:OG:275:VAL:O	2.21	0.41
1:OJ:178:THR:HG23	1:OJ:181:GLU:HB2	2.03	0.41
2:OK:108:TYR:HA	2:OK:112:LYS:HE3	2.00	0.41
2:OK:157:LEU:HB3	2:OK:166:LYS:NZ	2.35	0.41
1:P:27:GLU:CD	1:P:241:ARG:HH12	2.28	0.41
1:P:73:MET:SD	1:P:90:PHE:HD1	2.44	0.41
2:PA:154:LEU:HD12	2:PA:197:HIS:O	2.21	0.41
2:PA:363:VAL:HG23	2:PA:366:GLY:HA3	2.02	0.41
1:PD:131:GLN:HE22	1:PD:250:LEU:HB2	1.85	0.41
1:PD:207:LEU:HB3	1:PD:225:LEU:HD11	2.02	0.41
2:PE:179:THR:HG21	71:PE:501:GTP:H3'	2.03	0.41
2:PE:269:LEU:HD22	2:PE:303:THR:HG21	2.02	0.41
2:PG:26:LEU:HD21	28:1d:194:LYS:HD3	2.01	0.41
2:PG:70:LEU:HD21	2:PG:114:ILE:HG21	2.02	0.41
1:PH:232:VAL:O	1:PH:236:VAL:HG13	2.20	0.41
1:PH:289:LEU:HD11	1:PH:363:MET:HG3	2.01	0.41
1:PL:138:SER:HA	1:PL:169:VAL:HB	2.01	0.41
1:PL:177:ASP:O	1:PL:178:THR:OG1	2.33	0.41
1:PL:316:LEU:HB2	1:PL:366:THR:OG1	2.20	0.41
2:Q:40:LYS:HG3	28:1a:240:PHE:CE1	2.54	0.41
2:Q:223:SER:OG	2:Q:224:TYR:N	2.53	0.41
2:Q:422:ARG:HD2	2:Q:422:ARG:HA	1.86	0.41
1:QA:8:GLN:HE21	1:QA:17:GLY:HA3	1.84	0.41
1:QA:275:SER:OG	1:QA:278:SER:OG	2.32	0.41
2:QB:8:HIS:HB3	2:QB:13:GLY:O	2.20	0.41
2:QB:315:CYS:HB3	2:QB:377:MET:SD	2.60	0.41
2:QB:384:ILE:O	2:QB:387:VAL:HG12	2.21	0.41
2:QB:390:ARG:HB2	2:QB:390:ARG:NH1	2.35	0.41
2:QB:420:GLU:HA	2:QB:423:GLU:OE1	2.21	0.41
1:QC:256:ASN:C	1:QC:257:LEU:HD12	2.45	0.41
2:QD:247:ALA:O	1:QE:11:GLN:NE2	2.52	0.41
1:QE:260:PHE:HE2	1:QE:344:TRP:HH2	1.67	0.41
2:QF:88:ASN:ND2	2:QF:90:GLU:OE2	2.54	0.41
1:QG:317:PHE:HB3	1:QG:321:MET:SD	2.61	0.41
2:QH:267:PHE:HB2	2:QH:432:TYR:OH	2.20	0.41
1:QI:2:ARG:N	2:QJ:96:LYS:HE3	2.36	0.41
1:QK:341:PHE:HB3	1:QK:348:ASN:OD1	2.21	0.41
2:QL:422:ARG:NH1	2:QL:425:LEU:HD21	2.36	0.41
1:RA:257:LEU:CD1	1:RA:314:SER:HB2	2.48	0.41
2:RB:428:LEU:HD12	2:RB:428:LEU:HA	1.89	0.41
1:RE:304:ASP:OD1	1:RE:306:ARG:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RE:330:MET:SD	1:RE:349:ILE:HG21	2.59	0.41
1:RG:189:VAL:O	1:RG:193:VAL:HG23	2.20	0.41
2:RH:27:GLU:O	28:1Y:92:PRO:HB3	2.21	0.41
2:RH:263:PRO:HD2	57:3g:115:GLU:OE2	2.20	0.41
2:RL:313:MET:HG2	2:RL:380:ASN:O	2.21	0.41
2:SA:33:ASP:OD1	2:SA:34:GLY:N	2.52	0.41
1:SB:299:MET:HA	1:SB:299:MET:HE2	2.03	0.41
1:SF:44:LEU:HD11	1:SF:59:TYR:OH	2.20	0.41
1:SJ:107:THR:OG1	1:SJ:108:GLU:N	2.53	0.41
1:SJ:386:THR:O	1:SJ:390:ARG:HG3	2.20	0.41
2:SK:360:PRO:HG2	2:SK:374:ALA:HB3	2.02	0.41
1:T:119:VAL:O	1:T:123:GLU:HG2	2.19	0.41
1:T:191:GLN:O	1:T:195:ASN:ND2	2.36	0.41
2:TC:298:PRO:HG3	2:TC:308:ARG:NE	2.35	0.41
1:TD:3:GLU:HA	1:TD:49:VAL:HG23	2.02	0.41
1:TF:28:HIS:NE2	1:TF:241:ARG:HD2	2.36	0.41
1:TF:326:VAL:HG11	1:TF:353:ILE:HD11	2.01	0.41
2:TI:257:THR:HG21	1:TJ:98:GLY:O	2.20	0.41
2:TI:270:THR:OG1	2:TI:302:LEU:HB2	2.21	0.41
1:TJ:2:ARG:HH12	2:TK:72:PRO:HD2	1.84	0.41
2:TK:147:SER:OG	2:TK:190:SER:HB3	2.19	0.41
2:TK:282:TYR:HB2	21:0x:470:GLU:OE2	2.20	0.41
1:TL:178:THR:HB	1:TL:181:GLU:HG2	2.03	0.41
2:UA:275:VAL:O	2:UA:275:VAL:HG23	2.19	0.41
1:UB:311:LEU:HD23	1:UB:342:ILE:HD13	2.03	0.41
1:UD:267:MET:HE2	1:UD:371:ASN:HB2	2.02	0.41
1:UF:27:GLU:O	1:UF:43:GLN:NE2	2.53	0.41
1:UF:222:PHE:HD1	1:UF:225:LEU:HD12	1.85	0.41
1:UH:252:LYS:HE3	2:UI:101:ASN:OD1	2.19	0.41
1:UH:272:PRO:HD3	1:UH:364:SER:HA	2.02	0.41
1:UJ:347:ASN:ND2	2:UK:178:SER:HB2	2.33	0.41
2:UK:258:ASN:HB2	1:UL:179:VAL:HG22	2.01	0.41
1:V:141:GLY:HA3	69:V:500:GDP:O3A	2.20	0.41
1:VB:379:ARG:O	1:VB:383:GLU:OE1	2.39	0.41
2:VC:151:ALA:O	2:VC:155:GLU:HG3	2.20	0.41
1:VF:170:ILE:HD13	1:VF:377:MET:HE2	2.03	0.41
1:VH:22:GLU:HG3	1:VH:81:TYR:CD1	2.55	0.41
1:VJ:167:PHE:CZ	1:VJ:233:MET:HG2	2.56	0.41
1:VJ:190:HIS:HB2	1:VJ:414:ASN:HD22	1.85	0.41
1:VJ:311:LEU:HA	1:VJ:342:ILE:HD12	2.01	0.41
2:VK:52:PHE:CD2	2:VK:243:ARG:HD3	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VK:395:PHE:HD2	2:VK:422:ARG:HD3	1.85	0.41
1:VL:103:LYS:HE2	1:VL:401:GLU:CD	2.45	0.41
2:VM:270:THR:HG23	2:VM:302:LEU:HB2	2.02	0.41
1:W:229:VAL:O	1:W:233:MET:HG3	2.19	0.41
1:WB:247:ASN:ND2	2:WC:73:THR:OG1	2.54	0.41
2:WE:122:ILE:HG21	2:WE:157:LEU:HD11	2.02	0.41
2:WE:275:VAL:O	2:WE:275:VAL:HG13	2.21	0.41
1:WF:46:ARG:NH2	2:WG:76:ASP:OD2	2.45	0.41
1:WF:65:LEU:HB3	1:WF:73:MET:HE1	2.02	0.41
1:WH:190:HIS:CE1	1:WH:191:GLN:HG2	2.55	0.41
3:X:169:ASP:OD1	3:X:169:ASP:N	2.52	0.41
3:XB:37:VAL:O	3:XB:45:SER:HA	2.21	0.41
3:XE:81:LYS:HB2	3:XE:129:TRP:CE2	2.54	0.41
3:XE:180:GLU:HG2	3:XE:181:PHE:CD1	2.54	0.41
3:XF:22:LEU:HD21	3:XF:47:LEU:HD21	2.02	0.41
5:XN:86:GLY:HA2	32:2B:4:LEU:N	2.36	0.41
5:XN:242:GLY:O	5:XN:246:VAL:HG23	2.21	0.41
4:XQ:293:TYR:CE1	4:XQ:305:SER:HB2	2.56	0.41
7:0D:199:THR:HG23	7:0D:202:THR:H	1.86	0.41
8:0G:392:ILE:O	8:0G:396:GLN:HG2	2.20	0.41
8:0J:459:LEU:CD2	8:0J:475:LEU:HD22	2.51	0.41
9:0M:600:VAL:HG22	9:0M:607:ILE:HG22	2.03	0.41
9:0N:464:GLU:HB2	9:0N:493:TRP:HH2	1.85	0.41
10:0R:27:GLU:O	10:0R:31:GLN:HG3	2.20	0.41
10:0S:450:GLN:O	10:0S:454:LYS:HG2	2.20	0.41
11:0U:206:HIS:CE1	11:0U:310:ARG:HB3	2.55	0.41
11:0U:244:LEU:HD13	11:0U:257:LEU:HB3	2.02	0.41
12:0W:10:MET:O	12:0W:30:ARG:HA	2.20	0.41
14:0c:297:ASN:O	14:0c:301:ILE:HG12	2.20	0.41
16:0l:652:HIS:O	16:0l:656:VAL:HG23	2.20	0.41
16:0l:676:ILE:HB	16:0l:680:GLN:HE21	1.85	0.41
17:0m:37:ARG:O	17:0m:41:VAL:HG23	2.20	0.41
19:0r:192:ARG:HA	19:0r:192:ARG:NE	2.35	0.41
20:0u:143:LEU:HD12	20:0u:156:LEU:HD23	2.03	0.41
20:0u:193:ASP:OD2	20:0u:193:ASP:C	2.63	0.41
20:0u:216:ARG:HG3	20:0u:216:ARG:NH1	2.35	0.41
23:1A:139:GLU:OE1	23:1A:142:ARG:NH2	2.46	0.41
23:1A:189:GLN:O	23:1A:193:LYS:HG2	2.20	0.41
23:1B:261:LEU:HD11	45:2z:146:LEU:HB3	2.01	0.41
23:1B:377:LEU:HD23	23:1B:377:LEU:HA	1.88	0.41
24:1H:426:LYS:HA	24:1H:446:ALA:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:1I:369:MET:HA	24:1I:373:PHE:HB2	2.03	0.41
24:1I:640:LYS:HA	24:1I:643:GLU:OE2	2.21	0.41
24:1J:696:MET:HE3	24:1J:696:MET:HB3	1.88	0.41
24:1K:520:PRO:HB3	24:1K:527:ASP:HA	2.01	0.41
26:1Q:89:PHE:CE2	26:1Q:153:LEU:HB3	2.53	0.41
26:1Q:426:PHE:HE2	26:1Q:450:LEU:HD21	1.86	0.41
27:1T:845:THR:HA	27:1T:848:THR:HG23	2.02	0.41
28:1U:172:ASP:N	28:1U:172:ASP:OD1	2.53	0.41
29:1l:55:SER:OG	29:1l:56:LEU:N	2.52	0.41
38:2V:151:PRO:HA	38:2V:152:PRO:HD3	1.99	0.41
39:2X:15:GLN:OE1	59:4a:273:ARG:NH2	2.53	0.41
39:2X:64:GLU:HA	39:2X:67:ARG:HG3	2.01	0.41
41:2c:392:ARG:O	41:2c:396:LEU:HD23	2.19	0.41
41:2l:272:ASP:HA	41:2l:275:ARG:NH1	2.34	0.41
41:2l:356:VAL:O	41:2l:360:LEU:HD23	2.20	0.41
41:2p:439:ARG:NH1	41:2p:440:GLU:HG3	2.35	0.41
44:2v:341:HIS:CD2	44:2v:342:PRO:HD2	2.55	0.41
45:2y:299:TYR:HB2	45:2y:316:LEU:HD21	2.01	0.41
46:3B:74:ARG:NH1	46:3B:74:ARG:HB2	2.35	0.41
46:3B:120:LEU:HB2	46:3B:336:TYR:HE2	1.85	0.41
47:3D:239:ILE:HD12	47:3D:244:LEU:HD13	2.02	0.41
49:3Q:205:ASP:OD1	49:3Q:206:VAL:N	2.52	0.41
49:3Q:365:PRO:HA	49:3Q:368:VAL:HG12	2.03	0.41
49:3Q:411:LEU:O	49:3Q:414:GLU:HG3	2.20	0.41
60:3r:42:CYS:O	60:3r:45:VAL:HG12	2.20	0.41
64:5D:93:LYS:HB3	65:5I:83:TYR:CZ	2.54	0.41
65:5G:96:ARG:O	65:5G:100:ALA:N	2.46	0.41
65:5H:80:GLU:CD	65:5H:84:GLN:HE22	2.28	0.41
68:5S:150:ASP:HB3	68:5S:155:MET:HE1	2.01	0.41
1:A:187:LEU:HD21	1:A:408:PHE:CE1	2.56	0.41
1:A:189:VAL:HG21	1:A:415:MET:SD	2.60	0.41
2:AA:201:ALA:O	2:AA:268:VAL:HG22	2.20	0.41
1:AB:406:MET:O	1:AB:409:THR:OG1	2.36	0.41
2:AG:203:MET:O	2:AG:204:LEU:HD22	2.19	0.41
1:AH:121:ARG:NH1	1:AH:158:GLU:OE2	2.54	0.41
1:AJ:20:PHE:HA	1:AJ:230:ALA:HB1	2.03	0.41
1:AJ:22:GLU:HG3	54:3a:129:ARG:HE	1.85	0.41
1:AJ:67:ASP:OD1	1:AJ:143:THR:HG21	2.20	0.41
1:AJ:149:THR:O	1:AJ:152:ILE:HG22	2.21	0.41
1:AJ:323:THR:HG21	2:AK:224:TYR:CZ	2.55	0.41
2:AK:105:ARG:HG2	2:AK:110:ILE:HG12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AK:269:LEU:N	2:AK:379:ALA:O	2.42	0.41
2:AK:288:VAL:HA	2:AK:291:ILE:HG12	2.02	0.41
1:B:191:GLN:OE1	1:B:191:GLN:HA	2.21	0.41
2:BA:264:ARG:HH12	2:BA:428:LEU:HA	1.85	0.41
2:BA:345:ASP:OD2	2:BA:346:TRP:N	2.54	0.41
2:BC:219:ILE:HG13	2:BC:222:PRO:HG3	2.02	0.41
1:BF:135:LEU:HD13	1:BF:152:ILE:HG13	2.02	0.41
2:BI:71:GLU:HB3	2:BI:98:ASP:HB2	2.02	0.41
2:BI:194:LEU:HB3	2:BI:198:THR:OG1	2.21	0.41
2:BI:260:VAL:HG13	2:BI:265:ILE:O	2.19	0.41
1:BJ:349:ILE:HD13	1:BJ:349:ILE:HA	1.94	0.41
2:BK:221:ARG:N	2:BK:222:PRO:HD3	2.36	0.41
1:BL:52:ASP:HB3	1:BL:62:ARG:HE	1.85	0.41
1:BL:267:MET:HE1	1:BL:373:CYS:SG	2.60	0.41
1:BL:272:PRO:HD3	1:BL:364:SER:HA	2.03	0.41
2:BM:200:VAL:HG23	2:BM:256:GLN:HG2	2.02	0.41
1:BN:14:ASN:O	1:BN:18:SER:OG	2.20	0.41
1:BN:34:GLY:HA3	1:BN:58:ARG:HG3	2.03	0.41
1:BN:323:THR:HA	1:BN:326:VAL:HG12	2.03	0.41
2:C:26:LEU:HD12	2:C:363:VAL:HG23	2.02	0.41
2:C:84:ARG:HG3	2:C:85:GLN:N	2.35	0.41
2:C:91:GLN:O	2:C:92:LEU:HD23	2.21	0.41
2:CB:81:GLY:O	27:1S:774:THR:HG21	2.20	0.41
1:CC:188:SER:O	1:CC:192:LEU:HD23	2.20	0.41
1:CC:200:MET:HB3	1:CC:268:MET:SD	2.60	0.41
1:CC:213:ARG:HD2	1:CC:297:LYS:HB2	2.02	0.41
2:CD:275:VAL:O	2:CD:275:VAL:HG13	2.20	0.41
1:CE:165:MET:CE	1:CE:250:LEU:HD13	2.50	0.41
1:CE:361:LEU:HD22	26:1Q:311:GLU:HG2	2.03	0.41
2:CF:6:CYS:O	2:CF:65:CYS:HA	2.20	0.41
1:CI:68:LEU:HB3	1:CI:95:SER:O	2.20	0.41
1:CI:109:GLY:HA2	1:CI:147:MET:HE2	2.03	0.41
1:CI:304:ASP:OD1	1:CI:306:ARG:HG3	2.20	0.41
1:CK:62:ARG:NH1	1:CK:127:CYS:SG	2.94	0.41
2:CL:93:VAL:CG1	2:CL:114:ILE:HD11	2.51	0.41
1:CM:32:PRO:HG3	1:CM:81:TYR:CD1	2.55	0.41
2:DB:394:LYS:HB3	2:DB:394:LYS:HE3	1.81	0.41
1:DC:66:MET:SD	1:DC:151:LEU:HD22	2.60	0.41
1:DC:66:MET:SD	1:DC:116:VAL:HG21	2.60	0.41
1:DE:66:MET:SD	1:DE:151:LEU:HD22	2.61	0.41
2:DF:80:THR:HG23	25:1O:595:SER:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DH:2:ARG:HA	2:DH:133:GLN:HE22	1.85	0.41
2:DH:252:LEU:HA	2:DH:255:PHE:CE1	2.55	0.41
2:DH:396:ASP:OD1	2:DH:422:ARG:NE	2.45	0.41
1:DI:208:TYR:CE2	1:DI:225:LEU:HD21	2.56	0.41
2:DJ:5:ILE:HD12	2:DJ:125:LEU:HD13	2.03	0.41
1:DK:173:PRO:HG2	1:DK:380:ARG:HD2	2.01	0.41
1:DM:3:GLU:HG3	1:DM:49:VAL:HA	2.03	0.41
1:DM:244:GLY:HA3	1:DM:353:ILE:O	2.20	0.41
1:DM:263:LEU:HD23	1:DM:311:LEU:CD1	2.50	0.41
1:DM:311:LEU:HA	1:DM:342:ILE:HD12	2.02	0.41
1:E:209:ASP:OD1	1:E:213:ARG:NH1	2.46	0.41
1:E:313:ALA:HB1	1:E:367:PHE:CE1	2.56	0.41
1:EB:198:GLU:OE2	1:EB:250:LEU:HD12	2.20	0.41
1:EB:262:ARG:HG2	1:EB:262:ARG:NH1	2.36	0.41
1:EB:403:MET:HG3	1:EB:407:GLU:OE2	2.21	0.41
2:EC:21:TRP:CZ2	2:EC:65:CYS:HB3	2.56	0.41
2:EE:352:LYS:HE3	1:EF:178:THR:HG22	2.01	0.41
1:EF:165:MET:HE2	1:EF:250:LEU:HD11	2.01	0.41
1:EF:173:PRO:HD3	1:EF:380:ARG:HD3	2.02	0.41
1:EF:175:VAL:O	1:EF:175:VAL:HG12	2.20	0.41
1:EH:204:ASN:ND2	69:EH:500:GDP:O2'	2.54	0.41
2:EI:101:ASN:ND2	2:EI:143:GLY:HA2	2.35	0.41
2:EI:295:VAL:HG21	2:EI:375:VAL:HG13	2.02	0.41
1:FB:55:SER:H	1:GB:283:GLY:HA2	1.84	0.41
2:FC:231:ILE:HA	2:FC:234:VAL:HG12	2.02	0.41
2:FC:419:SER:O	2:FC:422:ARG:N	2.52	0.41
1:FF:233:MET:O	1:FF:236:VAL:HG12	2.21	0.41
1:FF:323:THR:HG21	2:FG:224:TYR:CE1	2.55	0.41
1:FF:371:ASN:ND2	1:FF:373:CYS:SG	2.80	0.41
2:FI:389:ALA:HA	2:FI:392:ASP:OD1	2.21	0.41
1:FL:326:VAL:O	1:FL:330:MET:HG2	2.20	0.41
2:GA:348:PRO:HG2	1:GB:384:GLN:OE1	2.21	0.41
2:GC:63:PRO:HG2	2:GC:87:PHE:HD1	1.85	0.41
2:GC:296:PHE:HE2	2:GC:341:ILE:HG21	1.86	0.41
2:GC:425:LEU:HD23	2:GC:425:LEU:HA	1.85	0.41
1:GD:87:PRO:HG2	1:HD:278:SER:HB2	2.02	0.41
1:GD:415:MET:O	1:GD:419:VAL:HG23	2.20	0.41
1:GF:272:PRO:C	1:GF:273:LEU:HD12	2.46	0.41
2:GG:21:TRP:NE1	2:GG:65:CYS:SG	2.94	0.41
2:GG:325:PRO:HA	2:GG:328:VAL:HB	2.02	0.41
1:GH:8:GLN:HE22	1:GH:21:TRP:CD1	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GH:274:THR:HB	1:GH:282:ARG:HH11	1.85	0.41
2:GI:220:GLU:O	2:GI:221:ARG:HD3	2.19	0.41
1:GJ:9:ALA:HB3	1:GJ:137:HIS:HB3	2.02	0.41
2:GK:229:ARG:O	2:GK:233:GLN:HG2	2.21	0.41
2:GK:260:VAL:HG12	2:GK:266:HIS:HA	2.03	0.41
2:GK:297:GLU:HG3	2:GK:299:ALA:H	1.84	0.41
1:GL:60:VAL:HG21	1:GL:86:ARG:HH21	1.84	0.41
1:GL:320:ARG:HH12	1:GL:355:ASP:CA	2.33	0.41
2:HA:9:ILE:HG22	2:HA:146:GLY:HA2	2.02	0.41
2:HA:326:LYS:HE2	1:HB:220:PRO:HD2	2.03	0.41
1:HB:350:LYS:HG3	2:HC:179:THR:O	2.19	0.41
2:HC:329:ASN:ND2	1:HD:175:VAL:HG13	2.35	0.41
2:HC:332:ILE:O	2:HC:336:LYS:HG2	2.20	0.41
1:HD:182:PRO:HG2	1:HD:388:MET:CE	2.50	0.41
2:HG:188:VAL:HG22	2:HG:421:ALA:HB1	2.02	0.41
2:HI:184:PRO:O	2:HI:188:VAL:HG23	2.21	0.41
2:HK:11:GLN:N	71:HK:501:GTP:O2B	2.31	0.41
2:HK:156:ARG:HA	2:HK:159:VAL:HG12	2.01	0.41
2:HK:167:LEU:HD11	2:HK:255:PHE:HZ	1.85	0.41
2:HK:230:LEU:HD23	2:HK:230:LEU:HA	1.95	0.41
1:HL:113:ILE:HA	1:HL:116:VAL:HG22	2.01	0.41
1:HL:257:LEU:HD21	1:HL:314:SER:HB2	2.02	0.41
1:HL:318:ARG:HH11	1:HL:318:ARG:HG2	1.85	0.41
1:IB:113:ILE:HG13	1:IB:117:LEU:HD23	2.03	0.41
1:IB:164:MET:HE2	1:IB:164:MET:HB2	1.92	0.41
2:IC:167:LEU:HD13	2:IC:252:LEU:HD12	2.01	0.41
2:IC:285:GLN:HE21	7:0D:23:ILE:HD13	1.86	0.41
1:ID:19:LYS:NZ	1:ID:227:HIS:HB2	2.35	0.41
1:ID:156:ARG:HH22	1:ID:197:ASP:CG	2.28	0.41
2:IE:94:SER:HB3	19:0r:19:CYS:HA	2.01	0.41
2:IG:377:MET:HE3	2:IG:377:MET:HB3	1.96	0.41
1:IH:322:SER:OG	2:II:222:PRO:O	2.39	0.41
2:II:117:LEU:HD11	2:II:121:ARG:NH1	2.35	0.41
2:II:169:TYR:OH	2:II:238:LEU:HD23	2.20	0.41
1:IJ:65:LEU:HB3	1:IJ:73:MET:HE1	2.01	0.41
1:IJ:145:SER:HB2	1:IJ:188:SER:OG	2.20	0.41
1:IJ:224:ASP:CG	7:0D:199:THR:HG1	2.28	0.41
2:IK:69:ASP:OD2	2:IK:71:GLU:HG3	2.21	0.41
1:IL:39:ASP:OD2	1:IL:39:ASP:O	2.38	0.41
1:IL:317:PHE:CD1	1:IL:365:VAL:HG22	2.55	0.41
1:JA:130:LEU:H	1:JA:130:LEU:HD23	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JA:144:GLY:N	69:JA:500:GDP:O2B	2.37	0.41
2:JB:9:ILE:HD13	2:JB:68:LEU:HB3	2.03	0.41
2:JB:258:ASN:HD21	1:JC:99:ASN:HD22	1.67	0.41
2:JB:402:ARG:CG	60:3r:61:ILE:HD12	2.50	0.41
1:JG:165:MET:HE3	1:JG:167:PHE:CE2	2.55	0.41
2:JH:2:ARG:HB2	2:JH:2:ARG:HH11	1.84	0.41
2:JH:217:LEU:HB3	2:JH:219:ILE:HG13	2.02	0.41
2:JH:393:HIS:O	2:JH:397:LEU:HD23	2.21	0.41
1:JI:167:PHE:CZ	1:JI:233:MET:HG2	2.54	0.41
1:JI:248:SER:HA	1:JI:252:LYS:HD3	2.02	0.41
2:JJ:1:MET:O	2:JJ:2:ARG:HG2	2.20	0.41
2:JJ:189:LEU:HD13	2:JJ:413:MET:HE1	2.02	0.41
2:JJ:234:VAL:HG13	2:JJ:376:CYS:SG	2.60	0.41
1:JK:19:LYS:O	1:JK:23:VAL:HG13	2.21	0.41
1:JK:344:TRP:CE3	1:JK:345:ILE:HG13	2.55	0.41
1:JM:295:ASP:OD2	1:JM:297:LYS:HB3	2.21	0.41
2:KB:139:HIS:CE1	2:KB:170:THR:HG22	2.55	0.41
1:KC:165:MET:HE1	1:KC:198:GLU:OE2	2.21	0.41
1:KC:199:SER:OG	1:KC:200:MET:N	2.54	0.41
1:KC:200:MET:HE2	1:KC:200:MET:HB2	1.81	0.41
1:KE:268:MET:HG3	1:KE:300:MET:HG3	2.03	0.41
1:KE:324:LYS:HZ1	2:KF:222:PRO:C	2.27	0.41
2:KF:19:ALA:HA	2:KF:22:GLU:HG2	2.02	0.41
2:KF:90:GLU:HB2	2:KF:121:ARG:NH1	2.35	0.41
2:KF:422:ARG:NH1	2:KF:426:ALA:HB2	2.36	0.41
1:KG:361:LEU:HD12	1:KG:361:LEU:HA	1.94	0.41
1:KI:19:LYS:HB2	1:KI:19:LYS:HE2	1.92	0.41
1:KI:66:MET:HB3	1:KI:147:MET:HE2	2.03	0.41
1:KI:299:MET:HG3	1:KI:305:PRO:HG3	2.03	0.41
2:KJ:275:VAL:O	2:KJ:275:VAL:HG13	2.20	0.41
1:KK:326:VAL:O	1:KK:330:MET:HG2	2.20	0.41
2:KL:31:GLN:NE2	2:KL:37:PRO:HG3	2.36	0.41
2:KL:244:PHE:CE1	49:3Q:548:GLN:HA	2.55	0.41
1:KM:310:TYR:HA	1:KM:371:ASN:HA	2.03	0.41
1:KM:385:PHE:HZ	1:KM:408:PHE:HB3	1.84	0.41
2:KN:142:GLY:HA3	2:KN:183:GLU:HG3	2.02	0.41
2:L:166:LYS:HE2	2:L:197:HIS:O	2.20	0.41
1:LA:297:LYS:HA	1:LA:297:LYS:HD3	1.87	0.41
2:LB:18:ASN:OD1	29:1j:195:LEU:HD21	2.20	0.41
2:LB:173:PRO:HG3	2:LB:183:GLU:HG2	2.02	0.41
2:LD:138:PHE:HE2	2:LD:235:VAL:HG21	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LD:169:TYR:OH	2:LD:238:LEU:HD23	2.21	0.41
2:LD:423:GLU:HA	2:LD:423:GLU:OE2	2.19	0.41
2:LF:3:GLU:HA	2:LF:51:THR:HA	2.01	0.41
2:LF:191:THR:O	2:LF:195:LEU:HB2	2.19	0.41
2:LF:203:MET:HB2	2:LF:303:THR:OG1	2.20	0.41
1:LG:167:PHE:CE2	1:LG:268:MET:HE1	2.55	0.41
1:LG:246:LEU:HD21	2:LH:179:THR:CG2	2.51	0.41
1:LG:311:LEU:HD23	1:LG:342:ILE:CD1	2.51	0.41
2:LH:88:ASN:OD1	2:MG:283:HIS:HB3	2.20	0.41
2:LJ:295:VAL:HG12	2:LJ:377:MET:HE2	2.02	0.41
2:LJ:329:ASN:ND2	1:LK:208:TYR:CE2	2.88	0.41
1:LM:221:THR:H	1:LM:224:ASP:CG	2.27	0.41
2:LN:102:ASN:HB3	2:LN:105:ARG:CB	2.49	0.41
1:LO:107:THR:HG22	33:2I:256:HIS:CD2	2.52	0.41
1:LO:309:ARG:HG2	1:LO:309:ARG:NH1	2.35	0.41
1:M:145:SER:HB2	1:M:188:SER:OG	2.20	0.41
1:M:165:MET:HG2	1:M:250:LEU:HD13	2.01	0.41
2:MC:310:GLY:HA3	2:MC:383:ALA:HB2	2.02	0.41
2:ME:25:CYS:HB3	2:ME:30:ILE:O	2.20	0.41
2:ME:142:GLY:CA	2:ME:183:GLU:HG3	2.50	0.41
1:MF:50:TYR:CE1	1:MF:237:THR:HG21	2.55	0.41
1:MF:83:GLN:OE1	1:MF:83:GLN:HA	2.20	0.41
1:MF:149:THR:HG21	1:MF:188:SER:HA	2.02	0.41
1:MF:321:MET:HE2	1:MF:321:MET:HB3	1.94	0.41
2:MG:155:GLU:OE2	33:2G:48:PRO:HG3	2.20	0.41
2:MG:157:LEU:HB3	2:MG:166:LYS:HE2	2.03	0.41
1:MH:3:GLU:HA	1:MH:49:VAL:HG13	2.02	0.41
2:MI:275:VAL:O	2:MI:275:VAL:HG13	2.21	0.41
1:MN:202:ILE:HD11	1:MN:268:MET:SD	2.61	0.41
1:MN:246:LEU:HD12	1:MN:246:LEU:HA	1.95	0.41
1:N:346:PRO:HG2	2:NA:394:LYS:HZ3	1.83	0.41
1:NB:178:THR:HB	1:NB:181:GLU:CG	2.50	0.41
1:ND:2:ARG:HA	1:ND:2:ARG:NE	2.36	0.41
1:ND:63:ALA:O	1:ND:89:ASN:ND2	2.34	0.41
1:ND:316:LEU:HB2	1:ND:366:THR:OG1	2.20	0.41
2:NE:40:LYS:HA	2:NE:40:LYS:HD2	1.88	0.41
2:NE:173:PRO:HG3	2:NE:183:GLU:HG2	2.02	0.41
1:NF:19:LYS:HE3	1:NF:19:LYS:HB3	1.89	0.41
1:NF:97:ALA:C	1:NF:103:LYS:HD2	2.45	0.41
1:NF:161:ASP:C	1:NF:162:ARG:HD2	2.44	0.41
1:NF:206:ALA:O	1:NF:210:ILE:HG12	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NL:175:VAL:HG23	1:NL:205:GLU:OE2	2.21	0.41
1:NL:318:ARG:NH1	1:NL:358:PRO:HG3	2.36	0.41
2:NM:215:ARG:HG3	2:NM:216:SER:N	2.36	0.41
1:O:114:ASP:OD1	1:O:114:ASP:N	2.52	0.41
2:OA:28:HIS:NE2	2:OA:243:ARG:HD2	2.35	0.41
1:OB:192:LEU:O	1:OB:196:SER:HB3	2.20	0.41
1:OB:215:LEU:HD21	1:OB:273:LEU:HD23	2.02	0.41
1:OB:233:MET:O	1:OB:236:VAL:HG12	2.20	0.41
2:OC:402:ARG:HG3	2:OC:405:VAL:HB	2.02	0.41
1:OD:18:SER:O	1:OD:22:GLU:HG3	2.20	0.41
1:OD:165:MET:HE3	1:OD:250:LEU:CD1	2.51	0.41
1:OD:282:ARG:HH21	1:OD:288:GLU:HB3	1.85	0.41
1:OF:304:ASP:N	1:OF:304:ASP:OD1	2.53	0.41
2:OG:79:ARG:HH22	2:OG:94:SER:HB3	1.85	0.41
2:OG:271:SER:HB3	2:OG:301:MET:HA	2.02	0.41
1:OH:60:VAL:HG21	1:PH:281:TYR:HB3	2.03	0.41
1:OH:185:THR:HG21	1:OH:381:VAL:HG11	2.02	0.41
1:OH:232:VAL:HG23	1:OH:366:THR:HB	2.01	0.41
1:OJ:20:PHE:HA	1:OJ:230:ALA:HB1	2.02	0.41
1:OJ:55:SER:HG	1:PJ:284:LEU:H	1.67	0.41
1:OJ:189:VAL:HG11	1:OJ:415:MET:SD	2.60	0.41
2:OK:329:ASN:ND2	1:OL:175:VAL:HG22	2.35	0.41
1:OL:165:MET:HG3	1:OL:200:MET:HE1	2.02	0.41
2:OM:52:PHE:HZ	2:OM:239:THR:HB	1.85	0.41
2:OM:224:TYR:HA	2:OM:227:VAL:HB	2.02	0.41
2:OM:346:TRP:CZ3	2:OM:347:CYS:HB2	2.55	0.41
1:P:246:LEU:HD12	1:P:246:LEU:HA	1.84	0.41
1:PB:2:ARG:NH2	2:PC:96:LYS:HD3	2.35	0.41
1:PB:87:PRO:HD3	1:QA:281:TYR:CD1	2.55	0.41
1:PD:152:ILE:HG23	1:PD:164:MET:HE2	2.03	0.41
1:PD:164:MET:HB2	1:PD:197:ASP:H	1.84	0.41
1:PF:99:ASN:HD21	1:PF:178:THR:HG23	1.84	0.41
1:PF:246:LEU:HA	2:PG:11:GLN:OE1	2.21	0.41
1:PH:357:PRO:O	28:1d:215:ARG:HD3	2.20	0.41
2:PI:155:GLU:HG2	2:PI:197:HIS:CE1	2.56	0.41
2:PK:143:GLY:HA3	71:PK:501:GTP:O1B	2.20	0.41
1:PL:172:SER:OG	1:PL:205:GLU:OE1	2.23	0.41
1:PL:175:VAL:HG11	1:PL:204:ASN:HB2	2.01	0.41
1:PL:310:TYR:HB2	1:PL:341:PHE:HD1	1.86	0.41
2:Q:28:HIS:HE1	2:Q:243:ARG:HD2	1.85	0.41
2:Q:88:ASN:ND2	2:Q:90:GLU:HB3	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QA:162:ARG:HB2	1:QA:164:MET:HE1	2.01	0.41
1:QA:252:LYS:HA	1:QA:255:VAL:HG12	2.03	0.41
1:QC:293:MET:HG3	1:QC:367:PHE:HB2	2.02	0.41
2:QD:237:SER:HA	2:QD:320:ARG:HD2	2.01	0.41
1:QG:257:LEU:HD11	1:QG:314:SER:HB3	2.02	0.41
2:QJ:75:VAL:O	2:QJ:79:ARG:HG3	2.20	0.41
1:QK:245:GLN:HB3	2:QL:224:TYR:HD2	1.85	0.41
1:QK:344:TRP:O	2:QL:398:MET:HA	2.21	0.41
2:QL:101:ASN:C	2:QL:186:ASN:HD21	2.27	0.41
2:R:363:VAL:HG23	2:R:366:GLY:HA3	2.02	0.41
1:RA:232:VAL:HG11	1:RA:268:MET:HG2	2.03	0.41
1:RC:66:MET:CG	1:RC:147:MET:HE1	2.50	0.41
1:RC:326:VAL:HG11	1:RC:353:ILE:HD11	2.01	0.41
1:RE:7:CYS:O	1:RE:135:LEU:HA	2.20	0.41
2:RF:275:VAL:O	2:RF:275:VAL:HG13	2.21	0.41
2:RF:286:LEU:HD12	2:RF:291:ILE:HG22	2.02	0.41
1:RG:21:TRP:CZ3	1:RG:61:PRO:HB3	2.55	0.41
2:RH:88:ASN:HD21	2:SG:280:LYS:HE3	1.86	0.41
2:RH:194:LEU:O	2:RH:266:HIS:NE2	2.49	0.41
2:RH:237:SER:HA	2:RH:320:ARG:HD2	2.01	0.41
2:RH:255:PHE:O	2:RH:259:LEU:HB2	2.21	0.41
2:RH:339:ARG:HB3	57:3g:92:LYS:HE3	2.03	0.41
1:RI:371:ASN:OD1	1:RI:372:THR:N	2.54	0.41
2:RJ:171:VAL:HG13	2:RJ:204:LEU:O	2.21	0.41
1:RK:68:LEU:HD12	1:RK:97:ALA:HB2	2.02	0.41
1:RK:384:GLN:O	1:RK:388:MET:HG3	2.19	0.41
1:S:293:MET:SD	1:S:367:PHE:HD1	2.44	0.41
2:SA:102:ASN:HB3	2:SA:105:ARG:HB2	2.02	0.41
1:SB:316:LEU:HB2	1:SB:366:THR:CG2	2.50	0.41
2:SC:205:ASP:OD1	2:SC:303:THR:HA	2.20	0.41
1:SD:113:ILE:HD12	1:SD:116:VAL:CG2	2.50	0.41
2:SE:251:ASP:H	2:SE:254:GLU:HG3	1.85	0.41
2:SG:103:TYR:HB3	2:SG:408:TYR:HE2	1.85	0.41
2:SK:159:VAL:HG22	57:3i:163:LEU:HB3	2.03	0.41
2:SK:260:VAL:HG23	2:SK:260:VAL:O	2.21	0.41
1:T:31:ASP:HB3	1:T:32:PRO:HD2	2.01	0.41
2:TC:51:THR:HG22	2:TC:52:PHE:CD1	2.56	0.41
2:TC:145:THR:HG23	2:TC:149:LEU:HD13	2.01	0.41
2:TE:252:LEU:HA	2:TE:255:PHE:CZ	2.55	0.41
2:TG:251:ASP:H	2:TG:254:GLU:CB	2.31	0.41
1:TH:224:ASP:O	1:TH:228:LEU:HD23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TH:309:ARG:H	1:TH:372:THR:HG1	1.63	0.41
2:TI:250:VAL:HG11	2:TI:318:MET:HE2	2.03	0.41
2:TK:338:LYS:CA	61:3x:110:PHE:CE1	2.96	0.41
1:TL:156:ARG:HB2	1:TL:195:ASN:CG	2.46	0.41
1:TL:170:ILE:HD12	1:TL:171:PRO:HD2	2.01	0.41
1:TL:299:MET:HE1	1:TL:367:PHE:CD2	2.56	0.41
1:U:21:TRP:CZ3	1:U:50:TYR:HB3	2.56	0.41
1:U:252:LYS:HE2	2:UA:101:ASN:CG	2.46	0.41
1:UB:66:MET:HE3	1:UB:116:VAL:HG11	2.02	0.41
1:UF:167:PHE:CD2	1:UF:233:MET:HE2	2.54	0.41
1:UF:319:GLY:HA2	1:UF:357:PRO:HD3	2.01	0.41
2:UG:97:GLU:OE1	2:UG:105:ARG:NH2	2.52	0.41
2:UG:246:GLY:HA3	2:UG:356:ASN:HA	2.03	0.41
2:UI:201:ALA:HB3	2:UI:267:PHE:CD1	2.56	0.41
1:UJ:350:LYS:HD2	1:UJ:351:SER:N	2.35	0.41
2:UK:141:VAL:HB	2:UK:190:SER:OG	2.21	0.41
2:UK:151:ALA:O	2:UK:155:GLU:HG3	2.21	0.41
1:UL:52:ASP:HB2	1:UL:62:ARG:HH12	1.85	0.41
1:UL:167:PHE:CZ	1:UL:200:MET:HG3	2.56	0.41
1:UL:269:GLY:O	1:UL:367:PHE:N	2.46	0.41
1:V:324:LYS:HA	1:V:324:LYS:HD2	1.76	0.41
2:VA:60:LYS:HG2	2:VA:61:HIS:N	2.35	0.41
2:VA:80:THR:O	2:VA:84:ARG:NH2	2.53	0.41
2:VA:154:LEU:HD12	2:VA:197:HIS:O	2.20	0.41
2:VA:221:ARG:HH11	2:VA:221:ARG:HG2	1.86	0.41
2:VA:413:MET:HE3	2:VA:417:GLU:HB3	2.03	0.41
1:VB:406:MET:SD	1:VB:406:MET:N	2.90	0.41
2:VC:157:LEU:HB3	2:VC:166:LYS:HZ1	1.84	0.41
2:VE:295:VAL:HG11	2:VE:377:MET:HB2	2.02	0.41
1:VF:229:VAL:O	1:VF:233:MET:HG3	2.20	0.41
2:VG:338:LYS:HE2	2:VG:338:LYS:HB2	1.89	0.41
2:VG:392:ASP:HB2	2:VG:422:ARG:CZ	2.50	0.41
1:VH:83:GLN:O	1:WH:281:TYR:OH	2.21	0.41
2:VM:2:ARG:HA	2:VM:133:GLN:HG2	2.01	0.41
2:VM:419:SER:O	2:VM:422:ARG:HB3	2.20	0.41
1:W:87:PRO:HA	1:W:90:PHE:CD2	2.56	0.41
2:WA:66:LEU:HD12	2:WA:91:GLN:O	2.21	0.41
1:WB:179:VAL:HG23	1:WB:180:VAL:HG13	2.02	0.41
2:WE:1:MET:HE2	1:WF:94:GLN:HE22	1.86	0.41
2:WG:215:ARG:NH2	2:WG:300:GLY:HA2	2.35	0.41
2:WI:191:THR:O	2:WI:195:LEU:HD23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:WI:200:VAL:HG23	2:WI:256:GLN:OE1	2.20	0.41
1:WL:141:GLY:HA3	69:WL:500:GDP:O3A	2.19	0.41
1:WL:193:VAL:HG11	1:WL:262:ARG:HH21	1.86	0.41
1:WL:379:ARG:O	1:WL:383:GLU:OE1	2.38	0.41
3:XE:163:ARG:HG2	3:XE:183:LEU:HD13	2.03	0.41
4:XM:163:PHE:CE2	4:XM:199:LEU:HD11	2.56	0.41
6:0A:18:GLU:HB3	33:2I:288:PHE:HE2	1.85	0.41
6:0A:29:VAL:HG12	6:0A:143:ALA:HB1	2.02	0.41
8:0G:269:MET:O	8:0G:272:GLU:HB3	2.20	0.41
9:0L:221:GLY:HA2	9:0L:247:ILE:H	1.85	0.41
9:0L:513:LEU:HD21	9:0L:522:LEU:HD22	2.01	0.41
9:0L:596:THR:OG1	9:0L:612:ASP:OD1	2.37	0.41
9:0M:272:LYS:HE3	9:0M:272:LYS:HB2	1.93	0.41
9:0N:397:SER:OG	14:0d:22:GLU:OE1	2.33	0.41
9:0O:271:SER:HA	9:0O:278:GLN:HE22	1.85	0.41
10:0R:154:ARG:O	10:0R:158:MET:HG3	2.20	0.41
10:0S:480:LEU:HD23	10:0S:480:LEU:HA	1.95	0.41
11:0U:218:HIS:ND1	11:0U:222:GLU:OE2	2.53	0.41
14:0c:35:GLN:HE22	14:0c:36:LYS:NZ	2.18	0.41
14:0c:344:ILE:HA	21:0v:50:LEU:O	2.21	0.41
15:0f:80:LEU:HD12	15:0f:80:LEU:HA	1.83	0.41
16:0l:449:MET:N	16:0l:449:MET:SD	2.94	0.41
16:0k:561:GLY:HA2	16:0k:603:GLN:HE22	1.85	0.41
17:0n:176:VAL:HA	17:0n:178:ARG:HE	1.85	0.41
19:0r:70:ARG:HH21	19:0r:80:ASP:HA	1.85	0.41
20:0u:210:ASP:O	20:0u:265:MET:HE1	2.20	0.41
22:0z:240:LEU:HD11	31:1s:256:ASN:ND2	2.36	0.41
23:1A:63:ASP:CG	23:1A:66:ALA:HB3	2.45	0.41
23:1E:221:VAL:HG13	25:1O:31:PHE:CE2	2.56	0.41
23:1E:252:VAL:O	23:1E:256:GLU:HG2	2.20	0.41
24:1H:120:LEU:HB3	24:1H:129:MET:CE	2.49	0.41
24:1H:478:ARG:HG2	24:1H:478:ARG:HH11	1.84	0.41
24:1H:676:GLU:OE1	24:1H:702:LEU:HD13	2.21	0.41
24:1J:565:VAL:O	24:1J:569:ILE:HD12	2.21	0.41
24:1J:695:LYS:HD2	24:1J:712:MET:HE1	2.03	0.41
24:1K:673:PHE:CZ	24:1K:702:LEU:HD21	2.55	0.41
25:1O:281:LEU:HD22	25:1O:388:THR:HG23	2.02	0.41
26:1Q:345:TYR:CD2	26:1Q:367:VAL:HG12	2.54	0.41
28:1b:254:LEU:O	28:1c:17:THR:N	2.47	0.41
29:1j:200:PHE:CE1	29:1j:207:PRO:HD3	2.55	0.41
29:1l:70:PHE:HB2	29:1l:84:GLN:HE22	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:1q:165:HIS:CD2	22:1w:192:GLN:HE22	2.38	0.41
22:1x:187:LEU:HD13	22:1x:187:LEU:HA	1.89	0.41
32:2B:56:ASP:HA	32:2B:59:VAL:HB	2.01	0.41
32:2B:261:MET:HA	32:2B:261:MET:HE3	2.02	0.41
33:2H:52:TRP:O	33:2H:53:LYS:HE2	2.20	0.41
34:2L:53:ILE:HG12	34:2L:56:ARG:HH21	1.85	0.41
35:2N:250:TRP:CH2	35:2O:46:ASP:HB2	2.56	0.41
37:2S:163:GLU:HA	54:3Z:354:LEU:HD13	2.01	0.41
41:2c:329:ALA:O	41:2c:332:ARG:HD3	2.21	0.41
44:2v:394:VAL:O	44:2v:395:PHE:C	2.64	0.41
44:2w:167:LEU:HD12	44:2w:177:ARG:HE	1.85	0.41
44:2w:312:VAL:HG22	44:2w:382:TYR:HD2	1.86	0.41
49:3Q:538:ASP:OD1	49:3Q:541:ALA:N	2.51	0.41
53:3W:211:LEU:HD23	53:3W:211:LEU:HA	1.92	0.41
64:5B:202:ALA:CB	65:5G:198:ARG:HH22	2.33	0.41
65:5H:212:LEU:HB3	65:5H:216:ARG:HH21	1.84	0.41
66:5L:49:VAL:CG2	66:5L:141:LEU:HB3	2.49	0.41
1:A:83:GLN:O	1:B:281:TYR:OH	2.27	0.41
2:AA:25:CYS:HB3	2:AA:30:ILE:O	2.21	0.41
1:AB:177:ASP:OD1	1:AB:177:ASP:N	2.51	0.41
1:AD:320:ARG:NH1	54:3Z:342:MET:O	2.53	0.41
1:AF:12:CYS:HB2	69:AF:500:GDP:C8	2.56	0.41
1:AF:28:HIS:HA	1:AF:43:GLN:HB3	2.03	0.41
1:AF:37:GLN:N	1:AF:37:GLN:OE1	2.54	0.41
1:AH:8:GLN:HB2	1:AH:13:GLY:O	2.20	0.41
1:AH:22:GLU:HG2	1:AH:81:TYR:CD1	2.55	0.41
2:AI:19:ALA:O	2:AI:22:GLU:HG2	2.21	0.41
1:AL:189:VAL:HG21	1:AL:415:MET:CE	2.51	0.41
2:BA:199:ASP:O	2:BA:266:HIS:HB2	2.20	0.41
1:BB:2:ARG:N	1:BB:131:GLN:HB2	2.35	0.41
1:BB:299:MET:HE1	1:BB:367:PHE:CE2	2.55	0.41
1:BB:311:LEU:HD23	1:BB:342:ILE:CD1	2.51	0.41
1:BB:350:LYS:HD2	2:BC:179:THR:O	2.21	0.41
2:BE:138:PHE:HE2	2:BE:235:VAL:HG21	1.85	0.41
2:BG:19:ALA:HA	2:BG:22:GLU:HG2	2.03	0.41
2:BG:306:ASP:OD1	2:BG:308:ARG:NH1	2.53	0.41
1:BH:238:CYS:HB2	1:BH:318:ARG:NH1	2.36	0.41
1:BJ:183:TYR:HA	1:BJ:385:PHE:HE1	1.85	0.41
1:BJ:249:ASP:OD1	1:BJ:252:LYS:HG2	2.20	0.41
1:BJ:406:MET:SD	1:BJ:407:GLU:N	2.93	0.41
2:BK:62:VAL:HG22	2:CJ:283:HIS:HD2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BK:307:PRO:HB3	2:BK:312:TYR:CE1	2.56	0.41
1:BN:6:SER:O	1:BN:63:ALA:HA	2.20	0.41
1:CA:248:SER:HA	1:CA:252:LYS:HD3	2.02	0.41
2:CB:211:ASP:HA	2:CB:214:ARG:HG2	2.02	0.41
2:CF:213:THR:HA	2:CF:217:LEU:HD23	2.01	0.41
1:CG:233:MET:O	1:CG:236:VAL:HG12	2.21	0.41
2:CJ:142:GLY:HA2	2:CJ:183:GLU:HB2	2.03	0.41
1:CK:345:ILE:HB	1:CK:348:ASN:HD21	1.84	0.41
1:CM:9:ALA:HB3	1:CM:137:HIS:HB3	2.03	0.41
1:CM:267:MET:HG2	1:CM:301:GLN:OE1	2.20	0.41
2:D:257:THR:HA	1:DA:397:TRP:CE2	2.55	0.41
1:DC:8:GLN:NE2	1:DC:17:GLY:HA3	2.36	0.41
1:DC:42:LEU:HD12	1:DC:356:ILE:HD11	2.02	0.41
1:DC:133:PHE:CD2	1:DC:155:LEU:HD13	2.56	0.41
2:DD:122:ILE:HG21	2:DD:157:LEU:HD21	2.01	0.41
1:DE:35:THR:CG2	1:DE:37:GLN:HE22	2.27	0.41
2:DF:8:HIS:HD2	2:DF:138:PHE:HB2	1.84	0.41
2:DF:352:LYS:HZ1	1:DG:99:ASN:HD21	1.69	0.41
1:DG:83:GLN:O	1:EF:281:TYR:OH	2.30	0.41
1:DG:158:GLU:HG2	1:DG:159:TYR:CE1	2.56	0.41
2:DH:70:LEU:HD22	2:DH:110:ILE:HG22	2.03	0.41
2:DH:426:ALA:O	2:DH:430:LYS:HG2	2.21	0.41
1:DI:156:ARG:NH2	1:DI:197:ASP:OD1	2.54	0.41
2:DJ:19:ALA:HA	2:DJ:22:GLU:HG2	2.03	0.41
2:DJ:365:GLY:N	24:1J:741:THR:OG1	2.54	0.41
2:DL:139:HIS:O	2:DL:170:THR:HA	2.21	0.41
1:DM:74:ASP:HA	1:DM:77:ARG:HG2	2.02	0.41
1:E:9:ALA:HA	1:E:66:MET:HB2	2.02	0.41
1:E:50:TYR:CD2	1:E:241:ARG:HD3	2.55	0.41
2:EC:316:CYS:SG	2:EC:318:MET:HE3	2.60	0.41
2:EC:407:TRP:O	2:EC:411:GLU:HG2	2.20	0.41
2:EE:31:GLN:HE22	2:EE:37:PRO:HG3	1.85	0.41
2:EE:160:ASP:OD2	63:4I:296:TYR:OH	2.26	0.41
1:EF:143:THR:O	1:EF:147:MET:HB3	2.20	0.41
1:EF:187:LEU:HD11	1:EF:408:PHE:CE1	2.54	0.41
1:EH:5:VAL:HG12	1:EH:130:LEU:HD11	2.02	0.41
2:FA:345:ASP:OD1	2:FA:346:TRP:N	2.53	0.41
1:FD:259:PRO:HB3	2:FE:404:PHE:CE2	2.55	0.41
2:FE:136:MET:HE3	2:FE:252:LEU:HD11	2.02	0.41
2:FE:182:VAL:HG23	2:FE:186:ASN:HD21	1.85	0.41
2:FE:269:LEU:HD13	2:FE:301:MET:SD	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FF:3:GLU:O	1:FF:131:GLN:N	2.54	0.41
1:FH:232:VAL:HG13	1:FH:268:MET:CE	2.50	0.41
2:FI:70:LEU:HG	2:FI:145:THR:OG1	2.21	0.41
2:FI:271:SER:HA	2:FI:302:LEU:HD23	2.02	0.41
1:FJ:350:LYS:HD2	2:FK:179:THR:O	2.20	0.41
2:FK:215:ARG:HH21	2:FK:300:GLY:HA2	1.86	0.41
1:FL:66:MET:HE3	1:FL:66:MET:HB2	1.95	0.41
1:FL:375:GLN:HE22	1:FL:379:ARG:CZ	2.33	0.41
1:G:193:VAL:HA	1:G:264:HIS:NE2	2.35	0.41
1:G:198:GLU:HB2	1:G:266:PHE:CE2	2.55	0.41
2:GA:269:LEU:HD11	2:GA:384:ILE:HD13	2.03	0.41
2:GC:139:HIS:O	2:GC:170:THR:HA	2.20	0.41
2:GC:176:GLN:HB2	2:GC:207:GLU:OE2	2.20	0.41
1:GD:187:LEU:HG	1:GD:408:PHE:CD1	2.55	0.41
1:GF:6:SER:HA	1:GF:134:GLN:HG2	2.03	0.41
1:GF:134:GLN:HA	1:GF:165:MET:O	2.20	0.41
2:GG:11:GLN:HG3	2:GG:74:VAL:HG11	2.03	0.41
1:GJ:12:CYS:O	1:GJ:16:ILE:HG22	2.21	0.41
1:GJ:56:GLY:O	17:0n:170:ILE:HD11	2.20	0.41
1:GJ:247:ASN:ND2	2:GK:71:GLU:OE2	2.54	0.41
1:GL:69:GLU:CD	1:GL:97:ALA:H	2.28	0.41
1:GL:156:ARG:HD3	1:GL:156:ARG:O	2.21	0.41
1:GL:340:TYR:HD2	59:4P:88:PHE:HD1	1.69	0.41
2:HA:167:LEU:HD21	2:HA:255:PHE:CZ	2.55	0.41
2:HA:275:VAL:O	2:HA:275:VAL:HG13	2.21	0.41
2:HA:346:TRP:HB3	1:HB:391:ARG:HD3	2.02	0.41
1:HB:271:ALA:HB3	1:HB:365:VAL:CG1	2.51	0.41
1:HH:166:THR:O	1:HH:200:MET:HE2	2.21	0.41
2:HI:397:LEU:O	2:HI:397:LEU:HD23	2.20	0.41
1:HJ:122:LYS:HE2	1:IJ:291:GLN:NE2	2.34	0.41
2:HK:112:LYS:HA	2:HK:115:VAL:HG12	2.02	0.41
2:HK:295:VAL:HG11	2:HK:377:MET:HB2	2.01	0.41
1:HL:238:CYS:SG	1:HL:239:CYS:N	2.93	0.41
1:HL:263:LEU:HD11	1:HL:425:TYR:CD2	2.55	0.41
1:HL:340:TYR:CG	64:5D:91:LYS:NZ	2.89	0.41
1:I:101:TRP:HZ3	1:I:187:LEU:HB2	1.86	0.41
1:I:267:MET:O	1:I:268:MET:HE2	2.21	0.41
1:IB:9:ALA:HB3	1:IB:137:HIS:HB3	2.02	0.41
2:IC:361:THR:HA	7:0D:14:VAL:CG1	2.50	0.41
1:ID:178:THR:O	1:ID:181:GLU:HG2	2.21	0.41
1:ID:183:TYR:CE1	1:ID:388:MET:HE3	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IF:267:MET:HG3	1:IF:369:GLY:O	2.21	0.41
1:IF:289:LEU:HD23	1:IF:365:VAL:HG12	2.02	0.41
2:IG:262:TYR:OH	1:IH:391:ARG:O	2.26	0.41
2:II:139:HIS:O	2:II:170:THR:HA	2.20	0.41
1:IJ:53:GLU:HB3	1:IJ:59:TYR:CD1	2.56	0.41
1:IJ:152:ILE:HG23	1:IJ:164:MET:CE	2.51	0.41
1:IJ:219:THR:HG21	7:0D:194:THR:O	2.20	0.41
1:IL:237:THR:HG22	1:IL:250:LEU:HD11	2.02	0.41
2:IM:201:ALA:H	2:IM:266:HIS:HD1	1.68	0.41
2:IM:388:PHE:O	2:IM:391:ILE:HG22	2.20	0.41
2:J:138:PHE:CE2	2:J:169:TYR:HD1	2.39	0.41
1:JA:208:TYR:CE1	1:JA:225:LEU:HD11	2.55	0.41
1:JC:175:VAL:O	1:JC:175:VAL:HG12	2.21	0.41
1:JC:276:ARG:HH22	15:0f:82:HIS:HB3	1.85	0.41
2:JD:213:THR:O	2:JD:217:LEU:HB2	2.21	0.41
1:JE:129:CYS:SG	2:JF:96:LYS:HG3	2.60	0.41
1:JE:135:LEU:HD13	1:JE:152:ILE:HD11	2.01	0.41
1:JG:99:ASN:ND2	1:JG:178:THR:HG21	2.36	0.41
2:JH:88:ASN:HB3	2:JH:90:GLU:O	2.21	0.41
1:JI:3:GLU:O	1:JI:131:GLN:N	2.51	0.41
1:JI:226:ASN:OD1	69:JI:500:GDP:N1	2.49	0.41
2:JJ:167:LEU:HD22	2:JJ:200:VAL:HB	2.02	0.41
2:JL:98:ASP:OD1	2:JL:99:ALA:N	2.53	0.41
1:JM:46:ARG:HH21	2:JN:73:THR:HA	1.86	0.41
2:JN:105:ARG:HH21	2:JN:110:ILE:HD11	1.85	0.41
1:KE:347:ASN:HD21	2:KF:178:SER:C	2.26	0.41
2:KH:271:SER:HA	2:KH:302:LEU:HG	2.02	0.41
1:KI:12:CYS:HB2	69:KI:500:GDP:C8	2.55	0.41
1:KI:199:SER:O	1:KI:265:PHE:HA	2.21	0.41
2:KJ:230:LEU:HD23	2:KJ:230:LEU:HA	1.93	0.41
2:KJ:326:LYS:HE3	2:KJ:326:LYS:HB3	1.88	0.41
1:KK:149:THR:HA	1:KK:152:ILE:HG12	2.03	0.41
2:KL:21:TRP:CZ2	2:KL:65:CYS:HB3	2.56	0.41
1:KM:61:PRO:HD3	1:KM:84:LEU:HG	2.03	0.41
1:KM:416:ASN:HA	1:KM:419:VAL:HG22	2.02	0.41
2:KN:209:ILE:HD13	2:KN:302:LEU:HD22	2.03	0.41
2:KN:211:ASP:O	2:KN:214:ARG:HG3	2.20	0.41
2:KN:254:GLU:OE1	2:KN:254:GLU:HA	2.20	0.41
1:LA:187:LEU:HD11	1:LA:408:PHE:CZ	2.55	0.41
1:LA:335:ASN:HA	22:1w:80:ARG:HH12	1.84	0.41
1:LA:403:MET:HG2	1:LA:408:PHE:HE1	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LB:77:GLU:HG3	29:1j:191:CYS:SG	2.60	0.41
2:LD:319:TYR:O	2:LD:356:ASN:HB2	2.19	0.41
1:LE:301:GLN:OE1	1:LE:303:ALA:HB3	2.20	0.41
1:LG:332:ASN:O	1:LG:336:LYS:HG2	2.21	0.41
1:LG:385:PHE:HZ	1:LG:408:PHE:HB3	1.84	0.41
2:LH:187:CYS:SG	2:LH:391:ILE:HG12	2.61	0.41
2:LH:258:ASN:ND2	2:LH:352:LYS:HD3	2.36	0.41
2:LH:386:GLU:O	2:LH:390:ARG:HG3	2.19	0.41
2:LL:279:GLU:HA	2:LL:282:TYR:CE1	2.56	0.41
1:LM:390:ARG:HH22	1:LM:391:ARG:HD3	1.85	0.41
2:LN:396:ASP:CG	2:LN:422:ARG:HE	2.27	0.41
1:MB:97:ALA:HB2	1:MB:143:THR:HB	2.02	0.41
2:MC:291:ILE:O	2:MC:295:VAL:HG23	2.21	0.41
1:MD:221:THR:HG22	1:MD:222:PHE:N	2.36	0.41
1:MD:262:ARG:HH12	1:MD:414:ASN:ND2	2.18	0.41
1:MF:50:TYR:HE1	1:MF:237:THR:HG21	1.85	0.41
1:MF:256:ASN:HD21	2:MG:182:VAL:HG22	1.86	0.41
1:MH:212:PHE:O	1:MH:216:LYS:HG2	2.20	0.41
2:MI:50:ASN:O	2:MI:64:ARG:NE	2.54	0.41
2:MI:72:PRO:HA	2:MI:94:SER:OG	2.21	0.41
2:MI:212:LEU:HD21	2:MI:275:VAL:HG11	2.02	0.41
1:MJ:200:MET:HE3	1:MJ:200:MET:HB3	1.78	0.41
1:ML:253:LEU:HD21	1:ML:316:LEU:HD21	2.01	0.41
2:MM:169:TYR:HA	2:MM:202:THR:HB	2.01	0.41
2:MM:393:HIS:HB2	14:0d:235:ARG:HH11	1.85	0.41
1:N:42:LEU:HD13	1:N:356:ILE:HD11	2.02	0.41
1:NB:133:PHE:CD2	1:NB:155:LEU:HD23	2.55	0.41
1:ND:21:TRP:CZ3	1:ND:61:PRO:HB3	2.55	0.41
2:NE:250:VAL:HG21	2:NE:318:MET:HE1	2.02	0.41
1:NF:313:ALA:HB1	1:NF:367:PHE:CE1	2.56	0.41
1:NH:179:VAL:HG12	1:NH:388:MET:HE1	2.03	0.41
2:NI:7:ILE:HG23	2:NI:66:LEU:HD23	2.03	0.41
2:NI:241:SER:HB3	2:NI:318:MET:HE1	2.03	0.41
1:NJ:200:MET:HE2	1:NJ:200:MET:H	1.85	0.41
1:NL:347:ASN:OD1	2:NM:178:SER:OG	2.24	0.41
1:NL:350:LYS:HD2	1:NL:351:SER:H	1.86	0.41
1:O:286:VAL:HG11	1:O:325:GLU:HG2	2.02	0.41
1:OD:345:ILE:HD12	2:OE:398:MET:SD	2.60	0.41
2:OE:91:GLN:HG2	2:OE:125:LEU:HD21	2.02	0.41
2:OE:240:ALA:HB2	2:OE:243:ARG:HH21	1.85	0.41
2:OE:258:ASN:CG	2:OE:352:LYS:HD3	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OG:209:ILE:HG23	2:OG:230:LEU:HD23	2.02	0.41
2:OG:247:ALA:O	1:OH:11:GLN:NE2	2.52	0.41
2:OI:298:PRO:HA	2:OI:301:MET:HE3	2.02	0.41
1:OJ:255:VAL:HG23	2:OK:407:TRP:CG	2.56	0.41
1:OJ:290:THR:HB	1:OJ:329:GLN:NE2	2.36	0.41
2:OK:278:ALA:O	2:OK:282:TYR:HD1	2.02	0.41
1:OL:177:ASP:HB2	69:OL:500:GDP:H3'	2.02	0.41
1:OL:187:LEU:HD11	1:OL:408:PHE:CZ	2.55	0.41
1:OL:385:PHE:CD2	1:OL:412:GLU:OE2	2.73	0.41
2:OM:90:GLU:OE2	2:OM:121:ARG:NE	2.53	0.41
2:OM:388:PHE:CD2	2:OM:432:TYR:HE2	2.38	0.41
1:P:58:ARG:NH2	1:P:83:GLN:O	2.53	0.41
2:PC:301:MET:HE2	2:PC:301:MET:HB3	1.85	0.41
1:PD:9:ALA:HB3	1:PD:137:HIS:HB3	2.02	0.41
2:PE:31:GLN:HB2	2:PE:33:ASP:OD1	2.20	0.41
2:PE:229:ARG:HH21	28:1d:149:MET:HG2	1.85	0.41
2:PG:39:ASP:O	41:2h:184:ARG:NH2	2.43	0.41
2:PG:275:VAL:HG13	2:PG:275:VAL:O	2.20	0.41
2:PI:2:ARG:NH1	2:PI:2:ARG:HB2	2.35	0.41
2:PI:28:HIS:NE2	2:PI:243:ARG:HD2	2.36	0.41
1:PJ:7:CYS:HB3	1:PJ:66:MET:HE1	2.01	0.41
1:PL:313:ALA:HB3	1:PL:349:ILE:HD13	2.02	0.41
1:PL:424:GLN:HA	1:PL:427:ASP:OD1	2.20	0.41
2:PM:362:VAL:HG21	2:PM:368:LEU:HB3	2.01	0.41
2:Q:340:THR:OG1	59:4a:116:GLU:OE2	2.23	0.41
2:QF:53:PHE:HB3	2:QF:61:HIS:HB3	2.01	0.41
1:QG:22:GLU:HG2	1:QG:81:TYR:CG	2.56	0.41
1:QG:200:MET:HE1	1:QG:236:VAL:HG21	2.02	0.41
2:QH:268:VAL:HG23	2:QH:378:ILE:HD11	2.02	0.41
1:QI:21:TRP:CZ3	1:QI:50:TYR:HB3	2.54	0.41
1:QI:21:TRP:HZ3	1:QI:50:TYR:HB3	1.84	0.41
1:QI:276:ARG:HA	1:QI:276:ARG:HD3	1.95	0.41
1:QK:217:LEU:HB3	1:QK:220:PRO:HG3	2.03	0.41
2:QL:288:VAL:HB	2:QL:327:ASP:HB3	2.03	0.41
2:R:245:ASP:HB2	28:1X:170:LYS:NZ	2.35	0.41
2:R:349:THR:OG1	2:R:350:GLY:N	2.53	0.41
1:RA:173:PRO:HD2	1:RA:380:ARG:CZ	2.49	0.41
2:RB:207:GLU:HA	2:RB:210:TYR:CD2	2.48	0.41
1:RC:346:PRO:HD2	2:RD:398:MET:SD	2.60	0.41
2:RD:76:ASP:OD1	2:RD:76:ASP:C	2.63	0.41
2:RD:143:GLY:HA3	71:RD:501:GTP:O1B	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:RD:187:CYS:O	2:RD:191:THR:HG23	2.21	0.41
2:RF:94:SER:O	59:3p:98:SER:OG	2.28	0.41
2:RF:431:ASP:O	2:RF:435:VAL:HG13	2.21	0.41
1:RG:326:VAL:HG21	1:RG:353:ILE:HD11	2.01	0.41
2:RH:110:ILE:O	2:RH:113:GLU:HG2	2.21	0.41
1:RI:50:TYR:CE2	1:RI:241:ARG:HD3	2.55	0.41
1:RK:270:PHE:CD1	1:RK:366:THR:HG22	2.55	0.41
2:RL:156:ARG:HA	2:RL:156:ARG:HD2	1.88	0.41
1:S:63:ALA:O	1:S:89:ASN:ND2	2.40	0.41
1:S:233:MET:O	1:S:236:VAL:HG12	2.21	0.41
1:SB:55:SER:H	1:TB:283:GLY:HA2	1.85	0.41
1:SB:244:GLY:HA3	1:SB:354:CYS:HA	2.03	0.41
1:SB:316:LEU:HB2	1:SB:366:THR:HG22	2.03	0.41
2:SC:79:ARG:HG3	2:SC:92:LEU:HD22	2.02	0.41
1:SD:103:LYS:HZ3	1:SD:108:GLU:HG3	1.86	0.41
2:SE:141:VAL:HG13	2:SE:170:THR:HG21	2.03	0.41
2:SG:272:TYR:HD1	2:SG:376:CYS:HB2	1.86	0.41
1:SH:83:GLN:HA	1:SH:83:GLN:OE1	2.21	0.41
1:SJ:18:SER:O	1:SJ:22:GLU:HG2	2.21	0.41
1:SJ:334:GLN:HE22	1:SJ:349:ILE:H	1.69	0.41
2:TA:214:ARG:NH2	61:3w:134:GLN:O	2.53	0.41
2:TC:296:PHE:CD2	2:TC:335:ILE:HG12	2.55	0.41
1:TD:253:LEU:O	1:TD:257:LEU:HB2	2.20	0.41
2:TE:47:ASP:OD1	2:TE:47:ASP:N	2.54	0.41
2:TE:116:ASP:N	2:TE:116:ASP:OD1	2.50	0.41
1:TF:28:HIS:HA	1:TF:43:GLN:HG2	2.02	0.41
1:TH:32:PRO:HG3	1:TH:81:TYR:CD1	2.56	0.41
1:TH:65:LEU:HB3	1:TH:73:MET:CE	2.51	0.41
1:TH:276:ARG:NH2	21:0w:206:GLU:OE1	2.54	0.41
2:TI:206:ASN:HD21	71:TI:501:GTP:N2	2.18	0.41
2:TI:335:ILE:HG21	2:TI:351:PHE:HZ	1.85	0.41
2:TK:3:GLU:HB2	2:TK:132:LEU:HA	2.03	0.41
2:TK:64:ARG:HG2	2:TK:125:LEU:HD22	2.01	0.41
2:TK:69:ASP:OD2	2:TK:71:GLU:HG3	2.21	0.41
2:TK:195:LEU:HD11	2:TK:428:LEU:HD12	2.03	0.41
1:U:54:SER:OG	1:U:55:SER:N	2.54	0.41
1:U:193:VAL:HG12	1:U:265:PHE:CE1	2.55	0.41
1:U:371:ASN:OD1	1:U:372:THR:N	2.53	0.41
1:U:404:ASP:CG	1:U:405:GLU:H	2.29	0.41
2:UA:270:THR:HG22	2:UA:378:ILE:HD13	2.03	0.41
1:UB:346:PRO:HG3	2:UC:394:LYS:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UD:334:GLN:NE2	1:UD:349:ILE:HG13	2.36	0.41
2:UE:212:LEU:HD13	2:UE:302:LEU:HD23	2.02	0.41
1:UF:133:PHE:HB2	1:UF:164:MET:SD	2.60	0.41
1:UF:415:MET:O	1:UF:419:VAL:HG23	2.20	0.41
2:UG:127:ASP:OD1	2:UG:128:ASN:N	2.54	0.41
2:UG:182:VAL:HG21	2:UG:408:TYR:HE1	1.86	0.41
2:UG:328:VAL:O	2:UG:332:ILE:HG12	2.20	0.41
1:UH:97:ALA:HB2	1:UH:143:THR:HB	2.02	0.41
1:UH:249:ASP:H	1:UH:252:LYS:CB	2.33	0.41
2:UK:296:PHE:CE2	2:UK:335:ILE:HG12	2.55	0.41
2:UK:425:LEU:HD12	2:UK:425:LEU:HA	1.90	0.41
1:V:202:ILE:HD13	1:V:268:MET:HG3	2.03	0.41
2:VA:139:HIS:O	2:VA:170:THR:HA	2.20	0.41
2:VE:88:ASN:OD1	2:VE:89:PRO:HD2	2.21	0.41
2:VE:213:THR:HG21	2:VE:222:PRO:HB3	2.03	0.41
2:VG:223:SER:OG	2:VG:224:TYR:N	2.54	0.41
2:VK:177:VAL:N	2:VK:207:GLU:OE2	2.38	0.41
2:VM:11:GLN:HA	2:VM:74:VAL:HG11	2.02	0.41
2:WC:240:ALA:HB1	2:WC:356:ASN:HD22	1.85	0.41
1:WF:313:ALA:HB1	1:WF:367:PHE:HE1	1.85	0.41
1:WH:209:ASP:OD1	1:WH:213:ARG:NH2	2.54	0.41
1:WJ:5:VAL:HG23	1:WJ:62:ARG:HG2	2.02	0.41
2:WK:47:ASP:OD1	2:WK:47:ASP:N	2.53	0.41
2:WK:275:VAL:O	2:WK:275:VAL:HG13	2.20	0.41
1:WL:172:SER:HB2	1:WL:203:ASP:OD2	2.21	0.41
1:WL:203:ASP:OD2	1:WL:302:ALA:HB3	2.21	0.41
1:WL:257:LEU:HD21	1:WL:368:ILE:HG23	2.03	0.41
3:XB:25:TRP:CD2	3:XB:61:CYS:HB2	2.55	0.41
3:XE:170:ARG:HG3	3:XE:170:ARG:NH1	2.35	0.41
3:XF:46:VAL:HG12	3:XF:163:ARG:HD3	2.03	0.41
4:XM:181:CYS:O	4:XM:185:LEU:HG	2.20	0.41
5:XP:130:THR:HA	5:XP:176:ARG:NH2	2.35	0.41
4:XQ:207:LEU:HD23	4:XQ:215:ILE:HD12	2.02	0.41
6:0:103:LYS:HA	14:0c:223:LYS:HB2	2.03	0.41
8:0J:357:LEU:HD21	8:0J:361:ARG:CZ	2.51	0.41
9:0L:36:LEU:HD22	9:0L:45:ILE:CD1	2.50	0.41
9:0L:538:ASP:HB3	9:0L:540:HIS:ND1	2.35	0.41
9:0M:9:ARG:HA	9:0M:587:VAL:O	2.20	0.41
9:0M:115:ALA:O	9:0M:123:LEU:HD12	2.20	0.41
9:0O:36:LEU:HD22	9:0O:45:ILE:HD12	2.02	0.41
10:0R:32:GLU:HA	10:0R:35:LYS:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:0S:308:ARG:HH21	10:0S:309:ARG:HH12	1.68	0.41
11:0U:254:TYR:O	11:0U:258:VAL:HG23	2.21	0.41
12:0W:305:LYS:HE3	18:0p:300:LEU:HD11	2.02	0.41
13:0Y:264:MET:HG2	13:0Y:268:ARG:NH2	2.35	0.41
14:0c:287:ASP:HA	14:0c:290:VAL:HG12	2.02	0.41
14:0c:363:ALA:O	21:0v:47:VAL:HG11	2.21	0.41
17:0n:144:GLN:HE21	17:0n:148:LEU:HD11	1.86	0.41
21:0x:446:ARG:O	21:0x:449:GLU:HG3	2.19	0.41
22:0z:153:PHE:CD2	22:0z:154:LYS:HG2	2.55	0.41
24:1H:318:LYS:HD3	24:1H:318:LYS:HA	1.78	0.41
24:1I:478:ARG:NE	24:1I:479:ARG:O	2.43	0.41
24:1I:479:ARG:NH1	24:1I:483:GLU:O	2.53	0.41
26:1Q:426:PHE:HZ	26:1Q:518:PRO:HD3	1.86	0.41
31:1q:234:GLN:CD	31:1q:235:PRO:HD2	2.45	0.41
22:1w:260:ARG:NE	41:2k:194:ARG:O	2.54	0.41
32:2C:8:LEU:HD21	32:2C:21:LEU:HB3	2.03	0.41
33:2F:82:LYS:HG3	33:2F:96:GLU:HG2	2.01	0.41
33:2F:173:GLN:OE1	33:2F:173:GLN:HA	2.21	0.41
33:2H:155:ARG:HE	33:2H:158:ALA:HB2	1.86	0.41
33:2H:250:GLU:O	33:2H:254:VAL:HG13	2.21	0.41
34:2L:41:TRP:HH2	34:2L:126:VAL:HG13	1.85	0.41
36:2Q:172:ARG:HG2	36:2Q:207:ASP:HB3	2.02	0.41
37:2S:211:VAL:O	37:2S:215:LEU:HD21	2.21	0.41
41:2b:256:LYS:HB2	41:2b:256:LYS:HE2	1.95	0.41
41:2e:385:GLU:O	41:2e:389:MET:HG2	2.20	0.41
41:2e:445:ALA:HB1	41:2e:449:TYR:CZ	2.56	0.41
41:2l:299:MET:O	41:2l:302:GLU:HG3	2.20	0.41
41:2o:468:ARG:HA	41:2o:468:ARG:NE	2.36	0.41
42:2r:36:PHE:CD1	42:2r:251:LEU:HD21	2.55	0.41
44:2v:297:MET:HB3	44:2v:301:ARG:NE	2.35	0.41
44:2v:389:ILE:CD1	44:2v:395:PHE:HA	2.51	0.41
45:2y:291:THR:HA	45:2y:294:ARG:HG2	2.02	0.41
45:2z:163:VAL:O	45:2z:167:LEU:HD23	2.21	0.41
46:3B:387:LYS:HA	46:3B:390:PHE:HB3	2.03	0.41
48:3I:41:MET:SD	48:3I:42:SER:N	2.94	0.41
48:3F:38:ARG:NE	48:3F:39:PRO:HD2	2.36	0.41
54:3Z:350:ILE:HD11	54:3Z:355:LEU:HD11	2.02	0.41
57:3f:178:ILE:HD12	57:3f:178:ILE:HA	1.88	0.41
59:4O:262:TYR:HB3	59:4O:265:LYS:HG3	2.02	0.41
66:5L:146:PHE:HB2	66:5L:242:LYS:HZ2	1.85	0.41
67:5O:75:ARG:HG2	67:5O:106:THR:HB	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:5P:95:ILE:HG13	67:5P:99:GLU:HG2	2.03	0.41
1:A:301:GLN:HE21	1:A:377:MET:HE2	1.85	0.41
1:A:312:THR:HG23	2:AA:181:VAL:HG11	2.01	0.41
2:AA:74:VAL:O	2:AA:77:GLU:HG3	2.20	0.41
1:AB:291:GLN:OE1	1:AB:291:GLN:HA	2.21	0.41
1:AB:295:ASP:OD1	1:AB:296:ALA:N	2.54	0.41
1:AD:28:HIS:HA	1:AD:43:GLN:HG2	2.03	0.41
1:AD:68:LEU:HD12	1:AD:97:ALA:HB2	2.02	0.41
2:AE:21:TRP:CZ2	2:AE:65:CYS:HB3	2.56	0.41
2:AE:421:ALA:O	2:AE:425:LEU:HD23	2.21	0.41
1:AH:267:MET:HE3	1:AH:267:MET:HB2	1.82	0.41
1:AJ:244:GLY:HA3	1:AJ:354:CYS:HA	2.02	0.41
2:AK:316:CYS:SG	2:AK:318:MET:HE3	2.61	0.41
2:AM:246:GLY:HA2	2:AM:357:TYR:CD1	2.56	0.41
1:B:301:GLN:NE2	1:B:374:ILE:HD12	2.36	0.41
1:BB:20:PHE:HA	1:BB:230:ALA:HB1	2.03	0.41
1:BB:295:ASP:OD2	1:BB:297:LYS:HG2	2.20	0.41
1:BB:323:THR:O	1:BB:326:VAL:HG12	2.20	0.41
2:BC:88:ASN:HB3	2:BC:91:GLN:HG2	2.02	0.41
2:BC:129:CYS:SG	2:BC:132:LEU:HB2	2.61	0.41
2:BE:121:ARG:HA	2:BE:121:ARG:HD3	1.82	0.41
2:BE:184:PRO:HA	2:BE:391:ILE:HD11	2.02	0.41
2:BE:189:LEU:HD13	2:BE:413:MET:HE1	2.03	0.41
1:BF:334:GLN:HE21	1:BF:349:ILE:HG13	1.85	0.41
2:BG:69:ASP:OD2	2:BG:71:GLU:HG3	2.21	0.41
2:BG:212:LEU:HD12	2:BG:300:GLY:HA2	2.02	0.41
2:BI:372:GLN:HE21	2:BI:373:ARG:HH12	1.69	0.41
1:BJ:10:GLY:HA2	1:BJ:143:THR:HG23	2.01	0.41
2:BK:309:HIS:HB3	2:BK:386:GLU:OE2	2.20	0.41
2:BK:320:ARG:HH21	2:BK:360:PRO:HA	1.84	0.41
1:BL:16:ILE:HD12	1:BL:229:VAL:HG11	2.02	0.41
1:BL:77:ARG:HH12	24:1J:226:ILE:H	1.69	0.41
1:BL:183:TYR:CE2	1:BL:394:PHE:HB2	2.55	0.41
1:BL:314:SER:OG	1:BL:368:ILE:HB	2.20	0.41
2:BM:79:ARG:HD2	16:0l:426:LYS:HA	2.02	0.41
1:BN:105:HIS:CE1	1:BN:149:THR:HG23	2.55	0.41
1:CA:262:ARG:HH12	1:CA:418:LEU:HA	1.85	0.41
1:CA:380:ARG:O	1:CA:384:GLN:HG2	2.21	0.41
2:CB:228:ASN:OD1	71:CB:501:GTP:N1	2.38	0.41
1:CC:177:ASP:OD1	1:CC:177:ASP:N	2.51	0.41
2:CD:93:VAL:HG11	2:CD:117:LEU:HD11	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CE:371:ASN:OD1	1:CE:372:THR:N	2.54	0.41
2:CF:170:THR:HG21	2:CF:194:LEU:HD21	2.03	0.41
2:CF:335:ILE:HD13	2:CF:335:ILE:HA	1.94	0.41
1:CG:170:ILE:HG21	1:CG:377:MET:HE2	2.01	0.41
1:CG:171:PRO:HG3	1:CG:181:GLU:HB3	2.01	0.41
1:CG:332:ASN:HB2	1:CG:336:LYS:NZ	2.35	0.41
2:CH:372:GLN:HA	24:1I:247:PHE:CE2	2.55	0.41
2:CJ:205:ASP:OD1	2:CJ:303:THR:HA	2.20	0.41
1:CK:295:ASP:OD1	1:CK:296:ALA:N	2.53	0.41
1:CK:404:ASP:N	1:CK:407:GLU:OE1	2.53	0.41
2:CL:251:ASP:N	2:CL:254:GLU:HB3	2.36	0.41
2:D:277:SER:C	2:D:369:ALA:HB2	2.45	0.41
2:DB:3:GLU:HB2	2:DB:129:CYS:SG	2.60	0.41
2:DB:28:HIS:NE2	2:DB:243:ARG:HD2	2.35	0.41
2:DB:282:TYR:OH	27:1S:793:GLU:OE2	2.38	0.41
1:DE:48:ASN:O	1:DE:62:ARG:NH2	2.53	0.41
1:DE:210:ILE:O	1:DE:214:THR:OG1	2.28	0.41
2:DF:220:GLU:OE2	25:1O:700:LYS:HD2	2.21	0.41
2:DH:346:TRP:CZ3	2:DH:347:CYS:HB2	2.56	0.41
2:DJ:172:TYR:CE1	2:DJ:203:MET:HG3	2.56	0.41
1:DK:161:ASP:OD1	1:DK:161:ASP:N	2.51	0.41
1:DM:18:SER:O	1:DM:22:GLU:HG3	2.19	0.41
1:DM:28:HIS:HA	1:DM:43:GLN:HB2	2.03	0.41
1:E:148:GLY:O	1:E:152:ILE:HG12	2.21	0.41
1:E:294:PHE:CE2	1:E:333:VAL:HG11	2.56	0.41
2:EA:90:GLU:O	2:EA:91:GLN:HG2	2.21	0.41
2:EA:205:ASP:OD1	2:EA:303:THR:HA	2.20	0.41
1:EB:210:ILE:HG22	1:EB:215:LEU:HD23	2.02	0.41
1:EB:316:LEU:HB2	1:EB:366:THR:OG1	2.20	0.41
2:EG:172:TYR:CE2	2:EG:388:PHE:HE1	2.37	0.41
2:EG:349:THR:OG1	1:EH:179:VAL:HA	2.19	0.41
1:EH:152:ILE:HG23	1:EH:164:MET:SD	2.60	0.41
1:EH:252:LYS:HG2	1:EH:350:LYS:HE2	2.02	0.41
2:EK:301:MET:HE1	2:EK:307:PRO:HG3	2.03	0.41
1:EL:252:LYS:HA	1:EL:252:LYS:HD2	1.89	0.41
1:EL:284:LEU:HD23	1:EL:362:LYS:HG2	2.02	0.41
1:F:237:THR:O	1:F:241:ARG:HG3	2.20	0.41
2:FA:352:LYS:HD2	2:FA:352:LYS:HA	1.94	0.41
1:FB:125:GLU:HB3	59:4O:142:ASN:ND2	2.36	0.41
2:FC:177:VAL:N	2:FC:207:GLU:OE2	2.53	0.41
2:FC:211:ASP:O	2:FC:215:ARG:HG2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FC:230:LEU:HD23	2:FC:230:LEU:HA	1.91	0.41
1:FD:326:VAL:HG11	1:FD:353:ILE:HD11	2.02	0.41
2:FE:88:ASN:HD22	2:FE:91:GLN:CD	2.29	0.41
2:FE:223:SER:OG	2:FE:224:TYR:N	2.53	0.41
1:FF:396:HIS:HA	1:FF:399:THR:OG1	2.21	0.41
1:FJ:310:TYR:O	1:FJ:348:ASN:ND2	2.54	0.41
1:FL:22:GLU:HG3	1:FL:81:TYR:CE1	2.55	0.41
1:FL:267:MET:HG3	1:FL:299:MET:CE	2.51	0.41
1:G:334:GLN:HE22	1:G:348:ASN:N	2.18	0.41
2:GC:103:TYR:CD1	2:GC:189:LEU:HB3	2.55	0.41
2:GC:155:GLU:HG2	2:GC:197:HIS:ND1	2.36	0.41
2:GC:217:LEU:HB3	2:GC:219:ILE:HG13	2.02	0.41
1:GD:203:ASP:OD1	1:GD:204:ASN:N	2.53	0.41
2:GE:172:TYR:CE2	2:GE:203:MET:HG3	2.56	0.41
1:GF:86:ARG:HG2	1:GF:88:ASP:OD1	2.19	0.41
2:GG:250:VAL:HG21	2:GG:318:MET:HE1	2.01	0.41
2:GG:271:SER:HB2	2:GG:301:MET:HA	2.02	0.41
1:GH:156:ARG:NH1	1:GH:160:PRO:O	2.53	0.41
1:GH:323:THR:HG21	2:GI:224:TYR:CZ	2.56	0.41
1:GH:344:TRP:HA	2:GI:397:LEU:HD12	2.01	0.41
2:GI:394:LYS:HZ1	2:GI:398:MET:HE1	1.85	0.41
2:GK:250:VAL:HG12	2:GK:352:LYS:NZ	2.35	0.41
1:GL:105:HIS:CE1	1:GL:150:LEU:HB2	2.55	0.41
2:HE:219:ILE:HG13	2:HE:222:PRO:HG3	2.03	0.41
1:HF:377:MET:HA	1:HF:380:ARG:HG2	2.02	0.41
2:HG:155:GLU:HG2	2:HG:197:HIS:CD2	2.55	0.41
2:HG:156:ARG:HA	2:HG:156:ARG:HD2	1.95	0.41
2:HG:167:LEU:HD22	2:HG:200:VAL:HB	2.01	0.41
1:HH:167:PHE:CE2	1:HH:233:MET:HE3	2.55	0.41
2:HI:275:VAL:O	2:HI:275:VAL:HG23	2.20	0.41
2:HI:320:ARG:HH12	2:HI:360:PRO:HA	1.85	0.41
1:HJ:344:TRP:HZ3	2:HK:403:ALA:HB2	1.86	0.41
2:HK:203:MET:O	2:HK:204:LEU:HD23	2.20	0.41
1:HL:67:ASP:OD1	1:HL:67:ASP:N	2.52	0.41
1:HL:87:PRO:HD3	1:IL:281:TYR:CD2	2.48	0.41
1:HL:205:GLU:HB2	1:HL:302:ALA:CB	2.50	0.41
1:HL:222:PHE:HA	1:HL:225:LEU:HB2	2.02	0.41
1:HL:237:THR:O	1:HL:241:ARG:HG3	2.21	0.41
2:HM:118:ALA:O	2:HM:122:ILE:HG12	2.21	0.41
1:I:18:SER:HB2	1:I:76:VAL:HG23	2.03	0.41
1:IB:103:LYS:NZ	1:IB:108:GLU:HG3	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IC:212:LEU:HD21	2:IC:275:VAL:HG11	2.02	0.41
2:IC:288:VAL:HG22	2:IC:323:VAL:HG12	2.02	0.41
1:IF:113:ILE:HG13	1:IF:117:LEU:HD23	2.03	0.41
2:IG:15:GLN:HB3	2:IG:228:ASN:ND2	2.36	0.41
2:IG:21:TRP:HZ2	2:IG:65:CYS:HB3	1.85	0.41
1:IH:73:MET:HA	1:IH:76:VAL:HG12	2.03	0.41
1:IJ:228:LEU:HD12	1:IJ:228:LEU:HA	1.94	0.41
1:IL:421:GLU:HA	1:IL:424:GLN:HE21	1.84	0.41
1:JA:193:VAL:HG22	1:JA:265:PHE:CE1	2.56	0.41
1:JA:193:VAL:HG22	1:JA:265:PHE:HE1	1.85	0.41
2:JB:2:ARG:HG3	2:JB:2:ARG:HH11	1.85	0.41
1:JC:255:VAL:HG11	2:JD:100:ALA:O	2.21	0.41
2:JD:209:ILE:HD11	2:JD:302:LEU:HD13	2.02	0.41
1:JE:311:LEU:HB2	1:JE:370:ASN:O	2.21	0.41
2:JF:88:ASN:HB2	2:JF:91:GLN:HE21	1.86	0.41
2:JF:251:ASP:O	2:JF:254:GLU:HB3	2.21	0.41
1:JG:147:MET:HE2	1:JG:147:MET:HB3	1.81	0.41
1:JG:227:HIS:HB3	47:3D:133:PRO:HG3	2.03	0.41
1:JG:315:ALA:HB1	1:JG:317:PHE:CE1	2.56	0.41
1:JI:311:LEU:O	1:JI:348:ASN:ND2	2.53	0.41
1:JK:169:VAL:HG22	1:JK:202:ILE:HB	2.03	0.41
2:JL:167:LEU:HD21	2:JL:255:PHE:HZ	1.85	0.41
2:JN:91:GLN:HG2	2:JN:125:LEU:HD21	2.02	0.41
1:KA:48:ASN:O	1:KA:62:ARG:NH2	2.54	0.41
1:KA:240:LEU:HD21	1:KA:249:ASP:CB	2.50	0.41
2:KB:81:GLY:O	2:KB:84:ARG:HG3	2.20	0.41
2:KB:395:PHE:HZ	2:KB:418:PHE:HB3	1.85	0.41
1:KC:246:LEU:HD12	1:KC:246:LEU:HA	1.93	0.41
1:KC:357:PRO:HG2	15:0f:221:ARG:HG3	2.02	0.41
2:KD:21:TRP:CE2	2:KD:65:CYS:HB3	2.56	0.41
1:KE:6:SER:O	1:KE:63:ALA:HA	2.20	0.41
1:KE:245:GLN:HG3	45:2y:349:THR:HG21	2.02	0.41
2:KH:240:ALA:HB2	2:KH:243:ARG:HH21	1.86	0.41
2:KH:395:PHE:HE1	2:KH:418:PHE:HD2	1.68	0.41
1:KI:242:PHE:HB2	1:KI:354:CYS:SG	2.61	0.41
2:KJ:240:ALA:HA	2:KJ:243:ARG:HB2	2.03	0.41
2:KL:47:ASP:OD2	2:KL:48:ALA:N	2.54	0.41
2:KL:326:LYS:NZ	1:KM:220:PRO:HD2	2.35	0.41
2:KL:422:ARG:HG3	2:KL:422:ARG:HH11	1.85	0.41
1:KM:246:LEU:HD21	2:KN:179:THR:HG21	2.02	0.41
1:KM:371:ASN:OD1	1:KM:372:THR:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KN:93:VAL:HG12	2:KN:114:ILE:HD11	2.02	0.41
2:L:70:LEU:HB3	2:L:98:ASP:HA	2.02	0.41
1:LA:200:MET:HE3	1:LA:200:MET:HB3	1.95	0.41
1:LA:262:ARG:HB2	1:LA:421:GLU:HG2	2.03	0.41
1:LA:334:GLN:HE21	1:LA:349:ILE:HG13	1.85	0.41
1:LE:358:PRO:HG2	1:LE:361:LEU:HB2	2.03	0.41
2:LF:121:ARG:HD3	2:LF:124:LYS:NZ	2.35	0.41
2:LF:145:THR:O	2:LF:149:LEU:HB3	2.20	0.41
2:LJ:138:PHE:HE2	2:LJ:235:VAL:HG21	1.85	0.41
1:LK:73:MET:HE2	1:LK:73:MET:HA	2.02	0.41
1:LK:131:GLN:O	1:LK:163:ILE:HG22	2.20	0.41
1:LK:217:LEU:HD13	1:LK:220:PRO:HB3	2.02	0.41
2:LL:264:ARG:NH2	2:LL:431:ASP:OD1	2.50	0.41
2:LL:270:THR:HA	2:LL:377:MET:O	2.21	0.41
2:LL:271:SER:HB2	2:LL:301:MET:HA	2.03	0.41
1:LM:321:MET:HE3	1:LM:353:ILE:HG23	2.01	0.41
1:LM:390:ARG:NH2	1:LM:391:ARG:HB2	2.35	0.41
2:LN:137:VAL:HG21	2:LN:154:LEU:HD21	2.03	0.41
1:LO:244:GLY:HA3	1:LO:354:CYS:HA	2.03	0.41
2:MA:258:ASN:HD21	1:MB:99:ASN:ND2	2.09	0.41
2:MA:296:PHE:CZ	2:MA:335:ILE:HG21	2.56	0.41
1:MB:161:ASP:OD2	1:MB:161:ASP:N	2.53	0.41
2:MC:195:LEU:HD22	2:MC:428:LEU:HD22	2.01	0.41
2:MC:269:LEU:O	2:MC:378:ILE:HD12	2.19	0.41
1:MD:21:TRP:CZ3	1:MD:50:TYR:HB3	2.56	0.41
1:MD:99:ASN:HD21	1:MD:178:THR:HG23	1.84	0.41
1:MF:77:ARG:HD3	1:MF:90:PHE:CZ	2.55	0.41
2:MG:285:GLN:HE21	23:1A:60:MET:CG	2.31	0.41
1:MH:4:ILE:HA	1:MH:132:GLY:O	2.21	0.41
2:MI:91:GLN:H	2:MI:121:ARG:NH1	2.18	0.41
2:MI:132:LEU:O	2:MI:164:LYS:HE3	2.20	0.41
1:MJ:311:LEU:HB2	1:MJ:370:ASN:O	2.21	0.41
2:MK:79:ARG:NH2	2:MK:94:SER:OG	2.53	0.41
2:MM:369:ALA:HB1	23:1B:240:ASN:OD1	2.21	0.41
1:MN:31:ASP:OD1	1:MN:33:THR:HG22	2.20	0.41
1:MN:232:VAL:HA	1:MN:366:THR:HG21	2.03	0.41
1:MN:273:LEU:H	1:MN:292:GLN:HE22	1.69	0.41
1:N:106:TYR:HE2	1:N:403:MET:SD	2.44	0.41
2:NA:426:ALA:O	2:NA:430:LYS:HG2	2.20	0.41
1:ND:101:TRP:HB3	1:ND:398:TYR:HE1	1.85	0.41
1:NF:326:VAL:HG11	1:NF:353:ILE:HD11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NG:196:GLU:HG3	2:NG:197:HIS:CD2	2.56	0.41
1:NH:257:LEU:HB3	1:NH:266:PHE:CE1	2.55	0.41
2:NI:226:ASN:O	2:NI:230:LEU:HD23	2.21	0.41
1:NJ:239:CYS:HA	1:NJ:354:CYS:SG	2.61	0.41
1:NJ:322:SER:OG	2:NK:222:PRO:O	2.38	0.41
2:NK:285:GLN:HE22	2:NK:287:SER:HB3	1.85	0.41
1:NL:99:ASN:CG	1:NL:178:THR:HG21	2.46	0.41
1:OB:27:GLU:OE1	1:OB:241:ARG:NH2	2.54	0.41
1:OB:252:LYS:HG3	1:OB:256:ASN:ND2	2.36	0.41
1:OD:58:ARG:HH12	1:PD:280:GLN:CD	2.28	0.41
1:OD:67:ASP:CG	1:OD:69:GLU:H	2.28	0.41
2:OE:417:GLU:HA	2:OE:420:GLU:OE1	2.21	0.41
2:OG:12:ALA:HB2	71:OG:501:GTP:C8	2.56	0.41
2:OG:57:GLY:C	41:2l:408:LYS:HZ2	2.29	0.41
1:OH:150:LEU:O	1:OH:154:LYS:HG2	2.20	0.41
1:OH:257:LEU:HD13	1:OH:368:ILE:HG21	2.02	0.41
1:OH:267:MET:HG2	1:OH:369:GLY:O	2.21	0.41
1:OH:392:LYS:HA	1:OH:395:LEU:HD23	2.02	0.41
1:OH:405:GLU:O	1:OH:409:THR:HG23	2.20	0.41
2:OI:6:CYS:O	2:OI:65:CYS:HA	2.20	0.41
1:OJ:330:MET:HB3	1:OJ:349:ILE:HG21	2.02	0.41
1:OJ:377:MET:HE3	1:OJ:377:MET:HB2	1.81	0.41
2:OK:2:ARG:NH1	2:OK:2:ARG:HB2	2.36	0.41
2:OK:195:LEU:HD21	2:OK:264:ARG:HE	1.86	0.41
2:OK:233:GLN:HE21	2:OK:368:LEU:HG	1.85	0.41
2:OK:275:VAL:O	2:OK:275:VAL:HG23	2.21	0.41
1:OL:58:ARG:NH2	1:OL:83:GLN:O	2.53	0.41
2:OM:191:THR:O	2:OM:195:LEU:HD23	2.21	0.41
2:OM:275:VAL:O	2:OM:275:VAL:HG13	2.21	0.41
1:P:258:VAL:O	1:P:258:VAL:HG23	2.21	0.41
1:PB:10:GLY:O	1:PB:14:ASN:ND2	2.54	0.41
1:PB:131:GLN:NE2	1:PB:250:LEU:HG	2.35	0.41
2:PE:195:LEU:HD11	2:PE:428:LEU:HD13	2.02	0.41
2:PG:274:PRO:HB2	2:PG:276:VAL:HG23	2.01	0.41
2:PG:293:ASN:O	2:PG:297:GLU:HG2	2.20	0.41
1:PH:67:ASP:OD1	1:PH:68:LEU:N	2.54	0.41
2:PI:145:THR:N	71:PI:501:GTP:O3G	2.39	0.41
2:PI:318:MET:O	2:PI:375:VAL:HA	2.21	0.41
2:PK:60:LYS:HE3	2:QJ:282:TYR:HD2	1.85	0.41
2:PK:265:ILE:HG21	2:PK:313:MET:HE1	2.03	0.41
1:PL:133:PHE:HB2	1:PL:164:MET:CE	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:198:THR:HG21	2:Q:201:ALA:HB2	2.02	0.41
1:QA:12:CYS:HB3	1:QA:138:SER:HB3	2.01	0.41
2:QB:264:ARG:NH2	2:QB:428:LEU:HD22	2.36	0.41
2:QF:105:ARG:HG3	2:QF:411:GLU:HG3	2.03	0.41
1:QG:152:ILE:HG22	1:QG:195:ASN:HB3	2.01	0.41
1:QG:372:THR:HG21	1:QG:426:GLN:HB2	2.03	0.41
2:QH:3:GLU:HA	2:QH:51:THR:HA	2.02	0.41
2:QH:311:LYS:HG2	2:QH:342:GLN:HB2	2.03	0.41
1:QI:276:ARG:HD2	41:2i:449:TYR:CE1	2.56	0.41
1:QK:76:VAL:HG13	1:QK:90:PHE:HE2	1.85	0.41
1:QK:326:VAL:HG21	1:QK:353:ILE:HD11	2.03	0.41
2:QL:19:ALA:O	2:QL:22:GLU:HG2	2.21	0.41
2:QL:180:ALA:HB3	2:QL:183:GLU:HB3	2.03	0.41
1:RA:101:TRP:CE3	1:RA:187:LEU:HD13	2.55	0.41
2:RD:19:ALA:HB2	2:RD:228:ASN:HB3	2.01	0.41
1:RE:344:TRP:H	1:RE:344:TRP:CD1	2.39	0.41
2:RF:3:GLU:O	2:RF:132:LEU:HA	2.21	0.41
2:RF:139:HIS:O	2:RF:170:THR:HA	2.21	0.41
2:RF:238:LEU:HD11	2:RF:255:PHE:CZ	2.56	0.41
2:RF:288:VAL:HB	2:RF:327:ASP:HB3	2.02	0.41
1:RI:11:GLN:HE22	69:RI:500:GDP:H8	1.69	0.41
1:S:192:LEU:O	1:S:196:SER:HB3	2.20	0.41
1:S:222:PHE:O	1:S:226:ASN:ND2	2.53	0.41
1:S:290:THR:HA	1:S:293:MET:HB2	2.02	0.41
2:SA:169:TYR:HE2	2:SA:235:VAL:HG23	1.85	0.41
2:SA:324:VAL:HG13	2:SA:327:ASP:H	1.85	0.41
1:SJ:125:GLU:OE1	61:3x:82:TYR:C	2.63	0.41
2:SK:376:CYS:SG	2:SK:377:MET:N	2.93	0.41
1:T:292:GLN:HG2	1:T:298:ASN:ND2	2.36	0.41
2:TC:231:ILE:HD12	2:TC:231:ILE:HA	1.91	0.41
1:TD:86:ARG:HH21	1:TD:122:LYS:HZ3	1.68	0.41
1:TD:148:GLY:O	1:TD:152:ILE:HG13	2.20	0.41
2:TE:322:ASP:OD2	2:TE:373:ARG:NH2	2.53	0.41
1:TF:199:SER:O	1:TF:265:PHE:HA	2.21	0.41
1:TF:256:ASN:HD21	2:TG:182:VAL:HG22	1.86	0.41
2:TG:90:GLU:HB2	2:TG:121:ARG:NE	2.32	0.41
2:TG:145:THR:HG22	71:TG:501:GTP:O3G	2.20	0.41
1:TH:317:PHE:HB2	1:TH:353:ILE:HD13	2.01	0.41
1:TJ:226:ASN:HA	1:TJ:229:VAL:HG22	2.03	0.41
1:TL:309:ARG:H	1:TL:372:THR:HG1	1.65	0.41
1:U:248:SER:HA	1:U:252:LYS:HD2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:337:ASN:HB3	1:U:340:TYR:HD2	1.84	0.41
1:U:381:VAL:HA	1:U:384:GLN:NE2	2.36	0.41
2:UA:219:ILE:HG22	2:UA:221:ARG:H	1.86	0.41
1:UF:295:ASP:OD1	1:UF:296:ALA:N	2.53	0.41
1:UF:357:PRO:HG2	34:2L:136:ARG:NH1	2.36	0.41
2:UG:270:THR:HG23	2:UG:302:LEU:HB2	2.03	0.41
2:UG:392:ASP:OD1	2:UG:393:HIS:N	2.53	0.41
1:UH:324:LYS:HB2	2:UI:222:PRO:HG2	2.01	0.41
2:UI:70:LEU:HD12	2:UI:110:ILE:HG22	2.03	0.41
1:VB:100:ASN:ND2	1:VB:401:GLU:HG3	2.36	0.41
2:VE:164:LYS:O	2:VE:166:LYS:HG2	2.21	0.41
2:VE:274:PRO:HD3	2:VE:374:ALA:HA	2.03	0.41
1:VF:183:TYR:O	1:VF:187:LEU:HG	2.21	0.41
1:VH:268:MET:SD	1:VH:268:MET:N	2.93	0.41
1:VJ:166:THR:HG23	1:VJ:199:SER:HA	2.01	0.41
2:VK:381:SER:O	2:VK:384:ILE:HG12	2.21	0.41
1:VL:167:PHE:CE2	1:VL:233:MET:HG2	2.55	0.41
2:VM:1:MET:O	2:VM:2:ARG:HG2	2.21	0.41
2:VM:103:TYR:HB3	2:VM:408:TYR:HE1	1.86	0.41
2:VM:267:PHE:HD2	2:VM:388:PHE:CE1	2.39	0.41
1:W:117:LEU:HA	1:W:120:CYS:SG	2.60	0.41
1:W:242:PHE:HB2	1:W:354:CYS:SG	2.61	0.41
1:W:268:MET:O	1:W:300:MET:HG2	2.21	0.41
2:WC:217:LEU:HD12	2:WC:367:ASP:HB2	2.03	0.41
2:WC:313:MET:HG2	2:WC:346:TRP:CH2	2.56	0.41
1:WD:183:TYR:OH	1:WD:393:ALA:O	2.20	0.41
2:WE:5:ILE:HD11	2:WE:126:ALA:HA	2.02	0.41
1:WF:175:VAL:O	1:WF:175:VAL:HG12	2.21	0.41
1:WF:208:TYR:CE1	1:WF:225:LEU:HD21	2.56	0.41
2:WG:53:PHE:HB3	2:WG:61:HIS:HB3	2.03	0.41
2:WG:264:ARG:HG3	2:WG:264:ARG:NH1	2.36	0.41
1:WH:77:ARG:HA	1:WH:82:GLY:HA3	2.03	0.41
1:WH:204:ASN:HD22	1:WH:204:ASN:HA	1.72	0.41
1:WH:211:CYS:HB3	1:WH:220:PRO:HG3	2.02	0.41
1:WJ:99:ASN:HD21	1:WJ:178:THR:HG23	1.84	0.41
1:WJ:125:GLU:OE2	3:XE:17:ILE:HA	2.20	0.41
1:WJ:253:LEU:HD21	1:WJ:316:LEU:HD11	2.02	0.41
1:WJ:327:ASP:HB3	2:WK:177:VAL:HG11	2.03	0.41
2:WM:143:GLY:HA3	71:WM:501:GTP:O3B	2.20	0.41
3:XA:77:VAL:HG11	3:XA:131:GLN:HE21	1.86	0.41
3:XA:103:PHE:CE2	3:XA:139:PHE:HB3	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:XC:78:MET:HE1	3:XC:89:PHE:CD1	2.55	0.41
5:XN:210:MET:HB3	5:XN:211:PRO:HD3	2.03	0.41
6:0A:150:ARG:O	6:0A:154:LYS:HD3	2.20	0.41
7:0D:117:LEU:HA	7:0D:120:ARG:NE	2.29	0.41
7:0D:218:LYS:HZ1	18:0p:301:ALA:HB3	1.83	0.41
8:0G:238:LYS:HG2	8:0G:241:ARG:HH22	1.86	0.41
8:0G:269:MET:O	8:0G:273:GLU:OE1	2.39	0.41
8:0J:428:ARG:O	8:0J:432:GLU:HG3	2.21	0.41
9:0L:108:LYS:O	9:0L:110:LYS:N	2.51	0.41
9:0L:509:TYR:HB2	9:0L:527:SER:HB3	2.01	0.41
9:0M:243:LEU:HD21	9:0M:268:GLN:HG3	2.02	0.41
9:0N:271:SER:N	9:0N:276:THR:O	2.48	0.41
9:0N:299:VAL:CG2	9:0N:307:TYR:HB2	2.51	0.41
9:0N:607:ILE:HG12	9:0N:619:TRP:HB2	2.03	0.41
9:0O:199:ARG:CZ	9:0O:199:ARG:HB2	2.51	0.41
12:0W:224:ILE:O	12:0W:228:LEU:HD23	2.21	0.41
16:0l:577:LEU:HD12	16:0l:577:LEU:HA	1.96	0.41
16:0k:164:ARG:NH1	16:0k:194:ASP:OD2	2.54	0.41
16:0k:568:LEU:HD11	16:0k:605:LEU:HD13	2.02	0.41
17:0m:42:LYS:O	17:0m:46:THR:HG23	2.20	0.41
17:0n:184:PHE:CE2	43:2t:338:LEU:HB2	2.56	0.41
17:0n:373:ARG:HD2	17:0n:374:LEU:HD22	2.03	0.41
23:1A:202:GLU:OE2	23:1A:202:GLU:HA	2.21	0.41
23:1E:177:ALA:N	23:1E:180:ARG:HH21	2.18	0.41
23:1E:223:GLN:HE22	45:2y:384:HIS:CG	2.39	0.41
23:1E:232:MET:HE2	45:2y:310:ARG:HD3	2.03	0.41
24:1H:344:ARG:NH1	24:1H:369:MET:HE1	2.35	0.41
25:1O:105:VAL:HB	25:1O:132:PHE:HB3	2.02	0.41
27:1T:840:ARG:HA	27:1T:840:ARG:HD3	1.84	0.41
28:1X:251:HIS:HB3	28:1Y:18:CYS:HB2	2.02	0.41
31:1r:161:GLU:HB3	22:1x:189:GLU:OE1	2.21	0.41
32:2C:219:VAL:HG21	33:2H:173:GLN:CG	2.48	0.41
33:2F:173:GLN:HA	33:2F:180:PRO:HG3	2.02	0.41
35:2O:99:LEU:HD12	35:2O:99:LEU:HA	1.96	0.41
36:2Q:64:ALA:O	36:2Q:69:GLY:N	2.47	0.41
41:2c:318:ALA:O	41:2c:321:LYS:HG3	2.21	0.41
41:2e:306:MET:O	41:2e:310:LYS:HG3	2.20	0.41
41:2e:341:ASN:O	41:2e:345:ARG:HD3	2.21	0.41
41:2i:342:ASN:O	41:2i:345:ARG:HG3	2.20	0.41
41:2l:415:PHE:O	41:2l:419:ILE:HG12	2.20	0.41
44:2v:259:THR:HA	44:2v:262:ASP:OD2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:3B:63:LEU:HA	46:3B:63:LEU:HD23	1.87	0.41
47:3D:47:TRP:HE3	47:3D:51:ARG:HD2	1.86	0.41
48:3F:84:ASP:O	48:3F:88:LEU:HD23	2.21	0.41
49:3P:352:LEU:O	49:3P:356:ILE:HG12	2.21	0.41
49:3P:410:GLN:HA	49:3P:410:GLN:HE21	1.85	0.41
49:3Q:362:LEU:HD23	52:3U:346:TRP:O	2.20	0.41
49:3Q:553:GLY:HA2	49:3Q:555:LYS:NZ	2.35	0.41
28:4V:237:PRO:HB3	28:4V:260:PRO:HG2	2.02	0.41
66:5K:66:ALA:O	66:5K:67:LYS:HG2	2.20	0.41
66:5K:208:ILE:HG22	66:5K:212:LEU:HD23	2.02	0.41
1:AB:14:ASN:HD21	1:AB:67:ASP:HB2	1.84	0.41
1:AB:186:THR:HG21	1:AB:385:PHE:CD2	2.56	0.41
2:AC:262:TYR:HB2	2:AC:265:ILE:HG12	2.03	0.41
2:AE:127:ASP:OD1	2:AE:128:ASN:N	2.54	0.41
2:AE:326:LYS:HD2	1:AF:212:PHE:CE2	2.55	0.41
1:AF:207:LEU:HD22	1:AF:300:MET:HB2	2.02	0.41
1:AF:221:THR:HG21	54:3Z:382:MET:HG2	2.02	0.41
2:AG:22:GLU:OE2	2:AG:229:ARG:NH1	2.53	0.41
2:AG:139:HIS:O	2:AG:170:THR:HA	2.20	0.41
1:AH:86:ARG:HD2	1:AH:88:ASP:OD1	2.21	0.41
1:AH:183:TYR:OH	1:AH:393:ALA:O	2.19	0.41
1:AL:187:LEU:HD11	1:AL:408:PHE:CZ	2.56	0.41
1:AL:252:LYS:HE3	2:AM:100:ALA:HA	2.03	0.41
2:AM:188:VAL:HG23	2:AM:425:LEU:HD22	2.03	0.41
1:AN:397:TRP:O	1:AN:400:GLY:N	2.53	0.41
1:B:105:HIS:HD2	1:B:106:TYR:CE1	2.39	0.41
2:BA:88:ASN:ND2	2:C:283:HIS:HB3	2.36	0.41
2:BA:147:SER:HB2	2:BA:190:SER:HB3	2.02	0.41
1:BB:305:PRO:HA	1:BB:371:ASN:ND2	2.36	0.41
1:BB:316:LEU:HB2	1:BB:366:THR:OG1	2.21	0.41
1:BD:177:ASP:OD2	69:BD:500:GDP:H3'	2.20	0.41
1:BD:362:LYS:HZ1	27:1S:131:GLU:H	1.68	0.41
1:BF:198:GLU:HA	1:BF:264:HIS:ND1	2.36	0.41
1:BH:232:VAL:O	1:BH:236:VAL:HG23	2.20	0.41
1:BH:350:LYS:NZ	2:BI:181:VAL:N	2.69	0.41
1:BJ:324:LYS:HE2	2:BK:222:PRO:CG	2.49	0.41
2:BK:262:TYR:HB2	2:BK:265:ILE:HG12	2.03	0.41
2:BK:348:PRO:CG	1:BL:384:GLN:HG3	2.50	0.41
1:BL:199:SER:O	1:BL:265:PHE:HA	2.20	0.41
2:BM:298:PRO:HB3	2:BM:307:PRO:HD2	2.03	0.41
2:C:90:GLU:HG3	2:C:91:GLN:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CC:165:MET:HE2	1:CC:250:LEU:HD11	2.03	0.41
2:CF:147:SER:OG	2:CF:190:SER:HB3	2.20	0.41
1:CI:56:GLY:HA3	24:1I:267:LEU:CD2	2.51	0.41
2:CJ:238:LEU:HD13	2:CJ:318:MET:HE3	2.01	0.41
1:CM:44:LEU:H	1:CM:44:LEU:HD23	1.86	0.41
1:CM:156:ARG:HD3	1:CM:156:ARG:O	2.21	0.41
2:D:142:GLY:HA3	2:D:183:GLU:HG3	2.03	0.41
1:DA:175:VAL:HG21	1:DA:205:GLU:HG3	2.03	0.41
1:DA:372:THR:HB	1:DA:426:GLN:HB2	2.03	0.41
2:DB:63:PRO:HB2	2:DB:65:CYS:SG	2.61	0.41
2:DB:167:LEU:HD11	2:DB:255:PHE:CZ	2.56	0.41
2:DF:142:GLY:CA	2:DF:183:GLU:HG3	2.51	0.41
2:DF:270:THR:HG23	2:DF:302:LEU:HB2	2.03	0.41
2:DF:304:LYS:HD2	2:DF:304:LYS:HA	1.87	0.41
1:DG:19:LYS:HD3	42:2r:402:MET:CE	2.49	0.41
2:DH:235:VAL:O	2:DH:239:THR:HG22	2.19	0.41
1:DI:21:TRP:CD1	1:DI:85:PHE:HE1	2.39	0.41
1:DI:236:VAL:HA	1:DI:316:LEU:HD22	2.03	0.41
2:DJ:3:GLU:OE1	2:DJ:3:GLU:N	2.54	0.41
2:DJ:142:GLY:CA	2:DJ:183:GLU:HG3	2.50	0.41
2:DJ:313:MET:HE3	2:DJ:346:TRP:HH2	1.86	0.41
1:DK:346:PRO:O	2:DL:394:LYS:NZ	2.32	0.41
2:DL:137:VAL:HG13	2:DL:168:GLY:HA2	2.03	0.41
1:DM:42:LEU:O	1:DM:45:GLU:HG2	2.21	0.41
1:DM:141:GLY:HA3	69:DM:500:GDP:O3A	2.20	0.41
1:E:21:TRP:CZ2	1:E:63:ALA:HB2	2.56	0.41
1:E:73:MET:HE3	1:E:73:MET:HB3	1.93	0.41
1:E:346:PRO:HD2	2:EA:398:MET:HG2	2.03	0.41
2:EA:394:LYS:O	2:EA:398:MET:HG3	2.21	0.41
1:EB:91:ILE:HD11	1:EB:119:VAL:HG21	2.02	0.41
1:EB:178:THR:N	1:EB:181:GLU:OE2	2.54	0.41
1:ED:50:TYR:CD2	1:ED:241:ARG:HD3	2.56	0.41
2:EE:46:ASP:OD1	2:EE:46:ASP:N	2.54	0.41
1:EF:58:ARG:HH11	25:1O:470:MET:HE3	1.85	0.41
1:EF:143:THR:N	69:EF:500:GDP:O2B	2.45	0.41
1:EF:203:ASP:O	1:EF:207:LEU:HD23	2.21	0.41
1:EF:347:ASN:O	2:EG:181:VAL:HG12	2.21	0.41
1:EH:24:ILE:HD13	1:EH:24:ILE:HA	1.88	0.41
2:EK:70:LEU:CD2	2:EK:149:LEU:HD22	2.51	0.41
2:EK:204:LEU:HD12	2:EK:231:ILE:HG12	2.02	0.41
2:EK:241:SER:N	2:EK:356:ASN:HD21	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FA:139:HIS:NE2	2:FA:194:LEU:HD21	2.36	0.41
1:FD:237:THR:HG22	1:FD:250:LEU:HD11	2.03	0.41
1:FF:127:CYS:SG	1:FF:130:LEU:HD13	2.61	0.41
1:FH:189:VAL:HG11	1:FH:415:MET:SD	2.61	0.41
2:FK:274:PRO:HG2	2:FK:371:VAL:HG11	2.03	0.41
2:FK:327:ASP:OD2	2:FK:327:ASP:N	2.53	0.41
1:G:110:ALA:O	1:G:113:ILE:HG22	2.21	0.41
2:GA:28:HIS:NE2	2:GA:243:ARG:HD2	2.36	0.41
2:GA:307:PRO:HB3	2:GA:312:TYR:CE1	2.56	0.41
2:GC:9:ILE:HG22	2:GC:146:GLY:HA2	2.02	0.41
2:GC:251:ASP:H	2:GC:254:GLU:HB2	1.86	0.41
2:GC:428:LEU:HA	2:GC:431:ASP:OD2	2.20	0.41
1:GD:286:VAL:O	1:GD:290:THR:HG23	2.20	0.41
1:GD:347:ASN:O	2:GE:181:VAL:HG12	2.21	0.41
2:GE:22:GLU:CD	36:2Q:285:TYR:HB3	2.46	0.41
2:GG:1:MET:HE2	1:GH:70:PRO:HG3	2.02	0.41
2:GG:36:MET:HG3	2:GG:61:HIS:NE2	2.35	0.41
2:GG:170:THR:HG21	2:GG:194:LEU:HD21	2.02	0.41
2:GG:431:ASP:OD1	2:GG:432:TYR:N	2.54	0.41
2:GI:173:PRO:HG3	2:GI:183:GLU:HG2	2.02	0.41
2:GI:199:ASP:OD2	2:GI:200:VAL:HG23	2.21	0.41
2:GI:203:MET:HE3	2:GI:384:ILE:HD13	2.02	0.41
1:GJ:16:ILE:HD11	1:GJ:229:VAL:HG11	2.03	0.41
1:HB:14:ASN:HD22	1:HB:72:THR:HG23	1.84	0.41
1:HD:44:LEU:O	7:0D:55:HIS:NE2	2.49	0.41
1:HD:150:LEU:O	1:HD:154:LYS:HG2	2.20	0.41
2:HE:345:ASP:OD1	2:HE:345:ASP:N	2.53	0.41
2:HE:428:LEU:HA	2:HE:431:ASP:OD1	2.21	0.41
1:HF:21:TRP:CZ2	1:HF:63:ALA:HB2	2.55	0.41
2:HG:251:ASP:H	2:HG:254:GLU:HG3	1.85	0.41
1:HH:211:CYS:HB3	1:HH:220:PRO:HG3	2.03	0.41
1:HH:324:LYS:NZ	2:HI:222:PRO:HB2	2.35	0.41
1:HH:344:TRP:HA	2:HI:397:LEU:CD2	2.51	0.41
2:HI:68:LEU:HD13	2:HI:93:VAL:HB	2.02	0.41
2:HI:70:LEU:HA	2:HI:95:GLY:HA3	2.03	0.41
1:HJ:300:MET:HE3	1:HJ:300:MET:HB3	1.96	0.41
1:HJ:321:MET:HB3	1:HJ:321:MET:HE2	1.81	0.41
2:HM:136:MET:HE1	2:HM:167:LEU:HD23	2.02	0.41
2:HM:204:LEU:HD22	2:HM:231:ILE:HD12	2.01	0.41
2:IA:422:ARG:HA	2:IA:422:ARG:HD2	1.79	0.41
2:IC:70:LEU:HD23	2:IC:70:LEU:HA	1.94	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IE:319:TYR:CB	2:IE:323:VAL:HG21	2.45	0.41
1:IF:207:LEU:HD13	1:IF:225:LEU:HB3	2.03	0.41
1:IF:237:THR:O	1:IF:241:ARG:HG3	2.20	0.41
2:IG:32:PRO:O	2:IG:86:LEU:HB2	2.21	0.41
2:IG:79:ARG:HE	47:3D:47:TRP:HZ2	1.67	0.41
1:IH:11:GLN:NE2	1:IH:15:GLN:HE21	2.19	0.41
1:IH:187:LEU:HD11	1:IH:408:PHE:CZ	2.56	0.41
2:II:207:GLU:HA	2:II:210:TYR:CD2	2.56	0.41
2:II:295:VAL:HG12	2:II:377:MET:HE3	2.02	0.41
1:IL:66:MET:HG2	1:IL:147:MET:CE	2.50	0.41
1:IL:347:ASN:ND2	2:IM:178:SER:O	2.53	0.41
2:IM:19:ALA:O	2:IM:22:GLU:HG2	2.20	0.41
2:J:11:GLN:HE21	2:J:15:GLN:NE2	2.18	0.41
2:JB:293:ASN:O	2:JB:297:GLU:HG2	2.21	0.41
2:JB:387:VAL:HA	2:JB:390:ARG:NH1	2.35	0.41
1:JC:133:PHE:HB2	1:JC:164:MET:SD	2.61	0.41
1:JE:172:SER:O	1:JE:176:SER:N	2.54	0.41
1:JE:202:ILE:HG23	1:JE:207:LEU:HD21	2.01	0.41
2:JH:112:LYS:HA	2:JH:115:VAL:CG1	2.50	0.41
2:JJ:264:ARG:HA	2:JJ:264:ARG:HD2	1.91	0.41
2:JJ:298:PRO:HG2	2:JJ:308:ARG:NH2	2.36	0.41
1:JM:173:PRO:HD2	1:JM:380:ARG:NH2	2.36	0.41
2:JN:301:MET:HG2	2:JN:303:THR:H	1.86	0.41
2:K:223:SER:OG	2:K:224:TYR:N	2.52	0.41
2:K:234:VAL:HG21	2:K:302:LEU:HD11	2.02	0.41
1:KA:21:TRP:CZ3	1:KA:50:TYR:HB3	2.56	0.41
1:KA:208:TYR:CD1	1:KA:225:LEU:HD21	2.55	0.41
2:KB:68:LEU:HD23	2:KB:93:VAL:HB	2.03	0.41
2:KD:335:ILE:HD13	2:KD:335:ILE:HA	1.89	0.41
1:KE:2:ARG:NH1	2:KF:71:GLU:OE1	2.54	0.41
1:KE:9:ALA:HB3	1:KE:137:HIS:HB3	2.01	0.41
1:KE:311:LEU:HA	1:KE:342:ILE:HD12	2.02	0.41
1:KE:319:GLY:HA2	1:KE:357:PRO:HD3	2.03	0.41
2:KF:213:THR:HG23	2:KF:217:LEU:HD23	2.03	0.41
2:KH:211:ASP:O	2:KH:215:ARG:HG2	2.20	0.41
2:KJ:100:ALA:HB3	2:KJ:105:ARG:HD3	2.03	0.41
2:KJ:234:VAL:HG21	2:KJ:302:LEU:HD11	2.02	0.41
2:KJ:259:LEU:HD21	2:KJ:268:VAL:HG21	2.02	0.41
2:KJ:426:ALA:O	2:KJ:430:LYS:HG2	2.20	0.41
2:KL:139:HIS:O	2:KL:170:THR:HA	2.21	0.41
1:KM:190:HIS:CE1	1:KM:191:GLN:HG2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LA:8:GLN:HB3	1:LA:14:ASN:HA	2.03	0.41
1:LA:86:ARG:HH12	1:M:282:ARG:HA	1.84	0.41
2:LB:139:HIS:CE1	2:LB:170:THR:HG22	2.56	0.41
2:LB:142:GLY:CA	2:LB:183:GLU:HG3	2.50	0.41
2:LF:82:THR:HG21	45:2y:297:ALA:HA	2.01	0.41
1:LG:66:MET:SD	1:LG:151:LEU:HD22	2.61	0.41
1:LG:237:THR:O	1:LG:241:ARG:HG3	2.21	0.41
2:LH:260:VAL:O	1:LI:397:TRP:NE1	2.47	0.41
1:LI:299:MET:HE1	1:LI:367:PHE:CE2	2.56	0.41
1:LK:276:ARG:HD2	1:LK:276:ARG:HA	1.86	0.41
1:LK:330:MET:HB3	1:LK:349:ILE:HG21	2.03	0.41
1:LK:385:PHE:CZ	1:LK:408:PHE:HB3	2.47	0.41
2:LL:395:PHE:CE2	2:LL:422:ARG:HB2	2.55	0.41
1:LM:37:GLN:N	1:LM:37:GLN:OE1	2.53	0.41
2:LN:257:THR:HG23	2:LN:258:ASN:ND2	2.35	0.41
1:MB:355:ASP:OD2	45:2y:201:THR:HG23	2.21	0.41
2:MC:286:LEU:HD12	2:MC:371:VAL:HG21	2.02	0.41
1:MD:43:GLN:O	1:MD:47:ILE:HB	2.21	0.41
1:MD:274:THR:OG1	1:MD:278:SER:OG	2.36	0.41
1:MD:277:GLY:O	1:MD:281:TYR:HD1	2.04	0.41
1:MD:293:MET:HE3	1:MD:294:PHE:CZ	2.56	0.41
2:MG:5:ILE:HD13	2:MG:64:ARG:HB3	2.02	0.41
1:MH:21:TRP:CZ3	1:MH:61:PRO:HB3	2.56	0.41
1:MJ:163:ILE:HD11	1:MJ:251:ARG:HG3	2.03	0.41
1:MJ:251:ARG:NH2	2:MK:105:ARG:HH21	2.19	0.41
2:MK:219:ILE:HG13	2:MK:222:PRO:HG3	2.02	0.41
2:MK:243:ARG:HG2	2:MK:244:PHE:CE2	2.56	0.41
2:MK:425:LEU:O	2:MK:429:GLU:OE1	2.38	0.41
1:ML:267:MET:HE2	1:ML:374:ILE:HD11	2.03	0.41
2:MM:209:ILE:HG23	2:MM:230:LEU:HD23	2.02	0.41
2:MM:367:ASP:OD1	2:MM:368:LEU:HD22	2.21	0.41
2:MM:395:PHE:CE2	2:MM:422:ARG:HD3	2.56	0.41
1:N:117:LEU:C	1:N:121:ARG:HE	2.28	0.41
2:NA:200:VAL:HA	2:NA:266:HIS:HB2	2.02	0.41
1:NB:113:ILE:HG13	1:NB:117:LEU:CD2	2.47	0.41
1:ND:204:ASN:OD1	69:ND:500:GDP:O2'	2.34	0.41
1:ND:242:PHE:HB2	1:ND:354:CYS:SG	2.60	0.41
1:NF:4:ILE:HG12	1:NF:131:GLN:HB3	2.03	0.41
2:NG:185:TYR:HA	2:NG:188:VAL:HG12	2.02	0.41
2:NG:250:VAL:HA	2:NG:254:GLU:HG2	2.03	0.41
1:NH:255:VAL:HG23	2:NI:407:TRP:CG	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NI:8:HIS:CE1	2:NI:17:GLY:HA3	2.56	0.41
2:NI:203:MET:HG3	2:NI:384:ILE:HD11	2.03	0.41
1:NJ:137:HIS:HE2	1:NJ:168:SER:HG	1.62	0.41
2:NK:333:ALA:O	2:NK:337:THR:HG23	2.21	0.41
1:NL:202:ILE:HG23	1:NL:207:LEU:HD21	2.02	0.41
1:NL:317:PHE:HB3	1:NL:321:MET:SD	2.60	0.41
2:NM:205:ASP:OD1	2:NM:303:THR:HA	2.20	0.41
2:OA:174:SER:CB	2:OA:177:VAL:HB	2.51	0.41
1:OB:21:TRP:CZ3	1:OB:61:PRO:HB3	2.56	0.41
1:OB:301:GLN:OE1	1:OB:303:ALA:HB2	2.20	0.41
2:OC:322:ASP:OD1	2:OC:373:ARG:HB3	2.21	0.41
2:OE:3:GLU:OE2	2:OE:130:THR:N	2.53	0.41
1:OF:100:ASN:HB3	1:OF:103:LYS:HB3	2.03	0.41
2:OG:428:LEU:HA	2:OG:431:ASP:OD2	2.21	0.41
1:OJ:198:GLU:OE2	1:OJ:250:LEU:HD12	2.20	0.41
2:OK:191:THR:HB	2:OK:425:LEU:HD21	2.03	0.41
2:OM:274:PRO:HD3	2:OM:374:ALA:HA	2.03	0.41
2:PA:122:ILE:HD13	2:PA:122:ILE:HA	1.97	0.41
1:PD:74:ASP:HA	1:PD:77:ARG:HG2	2.03	0.41
2:PG:384:ILE:O	2:PG:387:VAL:HG22	2.21	0.41
2:PI:247:ALA:HB1	1:PJ:222:PHE:CE1	2.56	0.41
1:PJ:6:SER:O	1:PJ:63:ALA:HA	2.21	0.41
2:PK:195:LEU:HA	2:PK:266:HIS:CE1	2.55	0.41
2:PK:195:LEU:HD22	2:PK:428:LEU:HD13	2.03	0.41
2:PK:270:THR:O	2:PK:302:LEU:HB2	2.21	0.41
1:PL:113:ILE:HD12	1:PL:116:VAL:HB	2.03	0.41
2:Q:212:LEU:HD21	2:Q:275:VAL:CG1	2.50	0.41
1:QA:86:ARG:HG3	1:RA:281:TYR:HB3	2.03	0.41
1:QC:232:VAL:HG22	1:QC:270:PHE:HB2	2.03	0.41
1:QC:290:THR:O	1:QC:293:MET:HB3	2.21	0.41
2:QD:98:ASP:N	2:QD:98:ASP:OD1	2.51	0.41
1:QE:344:TRP:CD2	2:QF:401:LYS:HD2	2.55	0.41
2:QF:5:ILE:HG12	2:QF:132:LEU:HD13	2.03	0.41
2:QH:203:MET:HE1	2:QH:267:PHE:HB3	2.03	0.41
2:QH:264:ARG:HB3	2:QH:264:ARG:HH11	1.85	0.41
2:QH:316:CYS:CB	2:QH:352:LYS:HB3	2.50	0.41
1:QK:345:ILE:HB	1:QK:348:ASN:HD21	1.84	0.41
1:RA:311:LEU:HD23	1:RA:342:ILE:CD1	2.51	0.41
1:RA:320:ARG:HH22	28:1X:183:GLY:HA2	1.85	0.41
2:RD:19:ALA:CB	2:RD:228:ASN:HB3	2.51	0.41
2:RF:291:ILE:O	2:RF:295:VAL:HG23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RG:313:ALA:HB1	1:RG:367:PHE:HE1	1.86	0.41
2:RH:307:PRO:HB3	2:RH:312:TYR:HE1	1.86	0.41
2:RH:326:LYS:H	2:RH:326:LYS:HE2	1.86	0.41
1:RI:121:ARG:HD2	59:3p:193:ARG:HE	1.86	0.41
1:RK:317:PHE:HB2	1:RK:353:ILE:HD13	2.02	0.41
2:RL:2:ARG:O	2:RL:2:ARG:HG3	2.21	0.41
2:SA:431:ASP:HA	2:SA:434:GLU:HB3	2.02	0.41
1:SB:152:ILE:HG22	1:SB:195:ASN:HB3	2.03	0.41
2:SC:137:VAL:O	2:SC:168:GLY:HA2	2.21	0.41
1:SD:330:MET:HB3	1:SD:349:ILE:HG21	2.02	0.41
2:SE:288:VAL:HG22	2:SE:323:VAL:HG12	2.01	0.41
1:SF:113:ILE:O	1:SF:117:LEU:HD23	2.21	0.41
1:SF:233:MET:O	1:SF:236:VAL:HG12	2.20	0.41
1:SF:418:LEU:HD23	1:SF:418:LEU:C	2.45	0.41
2:SG:212:LEU:HD21	2:SG:275:VAL:HG21	2.03	0.41
1:SH:152:ILE:HG22	1:SH:195:ASN:HB3	2.02	0.41
1:SH:418:LEU:HD12	1:SH:418:LEU:HA	1.91	0.41
1:T:3:GLU:HG3	1:T:49:VAL:HA	2.03	0.41
1:T:280:GLN:HE22	21:0w:448:PRO:HG3	1.86	0.41
1:TB:385:PHE:CZ	1:TB:408:PHE:HD2	2.39	0.41
2:TC:81:GLY:O	2:TC:84:ARG:NH1	2.45	0.41
2:TC:242:LEU:HD23	2:TC:242:LEU:H	1.86	0.41
2:TC:293:ASN:O	2:TC:297:GLU:HG2	2.21	0.41
1:TF:51:PHE:HE1	1:TF:61:PRO:HG3	1.85	0.41
2:TG:156:ARG:HA	2:TG:156:ARG:HD2	1.91	0.41
1:TH:306:ARG:HD3	61:3x:26:ALA:O	2.21	0.41
1:TH:331:LEU:HD22	2:TI:177:VAL:HG23	2.03	0.41
2:TI:317:LEU:HD23	2:TI:377:MET:HB2	2.03	0.41
1:TJ:11:GLN:HA	1:TJ:72:THR:HG21	2.03	0.41
1:TJ:45:GLU:OE2	1:TJ:46:ARG:NH1	2.54	0.41
2:TK:25:CYS:SG	2:TK:86:LEU:HD11	2.60	0.41
2:TK:195:LEU:HD11	2:TK:428:LEU:CD1	2.50	0.41
2:TK:253:THR:HG23	1:TL:98:GLY:HA2	2.02	0.41
1:TL:287:ALA:HB1	1:TL:291:GLN:NE2	2.34	0.41
1:U:189:VAL:HG11	1:U:415:MET:SD	2.60	0.41
2:UA:139:HIS:O	2:UA:170:THR:HA	2.20	0.41
2:UA:251:ASP:N	2:UA:254:GLU:HB3	2.36	0.41
1:UB:310:TYR:HB2	1:UB:341:PHE:HD1	1.85	0.41
2:UC:71:GLU:HG2	2:UC:73:THR:H	1.86	0.41
2:UC:352:LYS:HD2	1:UD:177:ASP:O	2.21	0.41
1:UD:58:ARG:NH2	1:UD:83:GLN:O	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:UE:352:LYS:HD2	1:UF:177:ASP:O	2.21	0.41
1:UF:164:MET:H	1:UF:197:ASP:HB2	1.86	0.41
2:UG:392:ASP:HB2	2:UG:422:ARG:NH1	2.35	0.41
2:UK:311:LYS:HD3	2:UK:344:VAL:HA	2.03	0.41
1:UL:50:TYR:CE2	1:UL:241:ARG:HD3	2.56	0.41
1:UL:221:THR:O	1:UL:225:LEU:HG	2.21	0.41
1:V:225:LEU:O	1:V:229:VAL:HG23	2.20	0.41
2:VA:173:PRO:HG3	2:VA:183:GLU:HG2	2.02	0.41
1:VB:44:LEU:HB3	9:0L:417:HIS:CD2	2.56	0.41
1:VB:321:MET:HE3	1:VB:353:ILE:HG23	2.03	0.41
2:VC:133:GLN:O	2:VC:164:LYS:HE2	2.21	0.41
2:VC:195:LEU:HD13	2:VC:267:PHE:HE1	1.86	0.41
1:VD:176:SER:OG	1:VD:181:GLU:OE1	2.33	0.41
1:VD:267:MET:HE1	1:VD:299:MET:HE3	2.02	0.41
2:VG:335:ILE:HD13	2:VG:335:ILE:HA	1.96	0.41
1:VH:170:ILE:HD11	1:VH:377:MET:SD	2.60	0.41
2:VI:60:LYS:NZ	2:WI:283:HIS:CE1	2.89	0.41
2:VI:339:ARG:H	2:VI:339:ARG:HD3	1.85	0.41
1:VJ:139:LEU:HD22	1:VJ:188:SER:HB2	2.02	0.41
2:VK:118:ALA:O	2:VK:122:ILE:HG12	2.21	0.41
2:VK:296:PHE:HZ	2:VK:351:PHE:HE1	1.69	0.41
1:VL:163:ILE:HD11	1:VL:251:ARG:HG3	2.02	0.41
1:VL:252:LYS:HZ1	71:VM:501:GTP:PG	2.43	0.41
1:VL:378:PHE:HA	1:VL:381:VAL:HG12	2.02	0.41
2:VM:274:PRO:HD3	2:VM:374:ALA:HA	2.01	0.41
2:WA:170:THR:HG21	2:WA:194:LEU:HD11	2.03	0.41
2:WA:186:ASN:OD1	2:WA:408:TYR:OH	2.28	0.41
2:WA:205:ASP:OD1	2:WA:303:THR:HA	2.21	0.41
2:WA:231:ILE:O	2:WA:235:VAL:HG23	2.21	0.41
2:WA:260:VAL:HG13	2:WA:265:ILE:O	2.21	0.41
1:WB:161:ASP:OD1	1:WB:161:ASP:C	2.64	0.41
2:WE:345:ASP:OD2	2:WE:346:TRP:N	2.54	0.41
1:WF:8:GLN:CD	1:WF:14:ASN:HA	2.46	0.41
2:WG:311:LYS:HD2	2:WG:311:LYS:HA	1.78	0.41
1:WH:310:TYR:HA	1:WH:371:ASN:HA	2.02	0.41
1:WH:324:LYS:HE2	1:WH:324:LYS:HB2	1.78	0.41
1:WJ:237:THR:O	1:WJ:241:ARG:HG3	2.21	0.41
2:WK:212:LEU:HD11	2:WK:275:VAL:HG11	2.03	0.41
2:WM:430:LYS:HB2	2:WM:430:LYS:HE3	1.79	0.41
3:XA:106:SER:OG	3:XA:109:GLN:HB2	2.21	0.41
3:XD:125:LEU:HB3	3:XD:130:ASN:ND2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:XE:96:ASP:OD1	3:XE:97:LYS:N	2.54	0.41
5:XN:12:ARG:O	5:XN:16:ARG:HG2	2.21	0.41
5:XN:84:HIS:ND1	32:2B:29:GLU:OE1	2.54	0.41
5:XP:138:ARG:NH1	5:XP:140:ASP:OD2	2.53	0.41
5:XP:141:LEU:HB3	5:XP:143:LEU:CD2	2.49	0.41
4:XQ:23:ASN:ND2	4:XQ:26:ALA:HB2	2.35	0.41
6:0:18:GLU:HB2	33:2F:288:PHE:HE2	1.86	0.41
8:0G:387:LEU:HD11	30:1o:68:LYS:HZ2	1.86	0.41
8:0G:450:ALA:O	8:0G:453:VAL:HG12	2.19	0.41
8:0J:417:LYS:CD	34:2L:84:GLU:HG2	2.50	0.41
9:0L:475:SER:OG	9:0L:477:ASP:OD1	2.30	0.41
9:0M:162:ASN:N	9:0M:211:ASP:OD1	2.47	0.41
9:0M:195:MET:HE3	9:0M:198:MET:SD	2.61	0.41
9:0M:528:ASP:OD1	9:0M:528:ASP:N	2.54	0.41
9:0N:32:GLN:OE1	9:0N:294:GLY:N	2.53	0.41
9:0O:297:TYR:HB2	9:0O:309:VAL:CG2	2.51	0.41
10:0R:32:GLU:HG3	10:0R:35:LYS:HE3	2.03	0.41
10:0R:299:LYS:HE3	10:0R:299:LYS:HB2	1.88	0.41
11:0U:11:VAL:HB	11:0U:73:LEU:HB3	2.02	0.41
14:0d:99:TYR:CE1	14:0d:101:LYS:HD3	2.56	0.41
16:0l:438:ARG:NH1	16:0l:441:ARG:HH22	2.16	0.41
16:0k:426:LYS:HG2	16:0k:428:ILE:HD13	2.03	0.41
16:0k:700:LEU:HD13	16:0k:722:PHE:CE1	2.55	0.41
17:0m:62:VAL:O	17:0m:66:LYS:HG2	2.20	0.41
17:0n:82:SER:HA	17:0n:85:LYS:HG2	2.03	0.41
17:0n:292:ILE:O	17:0n:296:LYS:HG3	2.21	0.41
20:0t:17:GLU:O	20:0t:21:GLN:OE1	2.39	0.41
20:0u:228:ARG:HA	20:0u:239:PHE:HB3	2.03	0.41
21:0x:488:VAL:HG12	21:0x:492:ARG:HH12	1.85	0.41
23:1A:167:GLU:O	23:1A:167:GLU:HG3	2.21	0.41
23:1A:210:ARG:O	23:1A:214:VAL:HG23	2.21	0.41
23:1B:322:LEU:O	23:1B:325:GLU:HB3	2.19	0.41
24:1H:167:VAL:HG13	24:1H:199:PRO:HG2	2.02	0.41
24:1H:456:ILE:O	24:1H:471:PHE:N	2.54	0.41
24:1H:647:ARG:HH11	24:1H:647:ARG:HG2	1.85	0.41
24:1I:153:PRO:HA	24:1I:159:PRO:HA	2.03	0.41
24:1I:644:GLU:O	24:1I:648:MET:HG2	2.21	0.41
24:1J:368:TYR:CE2	24:1J:372:LYS:HD2	2.56	0.41
24:1J:663:LEU:HD13	24:1J:746:LEU:HD23	2.03	0.41
24:1K:680:ILE:CG2	24:1K:693:GLU:HB3	2.51	0.41
25:1O:635:ILE:HG23	25:1O:639:ASP:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:1S:14:GLN:OE1	29:1k:169:PRO:HA	2.21	0.41
28:1b:48:VAL:HG12	28:1b:49:GLY:N	2.35	0.41
29:1l:200:PHE:CE1	29:1l:207:PRO:HD3	2.55	0.41
29:1m:224:ARG:O	29:1m:225:TYR:HB2	2.20	0.41
31:1q:227:GLU:O	31:1q:231:VAL:HG23	2.20	0.41
31:1r:248:LEU:O	31:1r:252:GLU:HG2	2.21	0.41
22:1w:45:CYS:HB3	22:1w:50:HIS:CD2	2.55	0.41
22:1w:59:LEU:O	22:1w:62:ILE:HG12	2.20	0.41
32:2B:136:MET:O	32:2B:139:VAL:HG12	2.20	0.41
32:2C:110:LYS:HD2	32:2C:111:PHE:H	1.86	0.41
33:2I:222:VAL:HG13	33:2I:225:THR:O	2.20	0.41
36:2Q:96:ALA:O	36:2Q:100:GLU:OE1	2.39	0.41
37:2S:42:VAL:HG12	37:2S:236:VAL:HG22	2.02	0.41
38:2U:109:LEU:HD23	38:2U:109:LEU:HA	1.93	0.41
38:2U:333:THR:HB	38:2U:337:GLU:HB2	2.03	0.41
39:2X:113:ARG:O	39:2X:116:ARG:HG2	2.21	0.41
41:2e:191:THR:O	41:2e:194:ARG:HG3	2.20	0.41
41:2k:310:LYS:HG2	41:2k:314:LYS:NZ	2.36	0.41
41:2o:335:GLN:HA	41:2o:338:VAL:HG22	2.01	0.41
41:2p:434:PRO:O	41:2p:438:THR:HG23	2.21	0.41
48:3F:77:LEU:O	48:3F:81:LYS:HG2	2.21	0.41
49:3Q:166:VAL:O	49:3Q:192:ASN:HA	2.20	0.41
53:3W:306:ARG:HH12	53:3W:307:LEU:CD2	2.34	0.41
57:3i:118:ARG:O	57:3i:122:ARG:HG2	2.21	0.41
59:3p:204:GLU:C	59:3p:211:ARG:HE	2.29	0.41
60:3s:105:LEU:HA	60:3s:108:ILE:HG22	2.02	0.41
28:4W:10:LEU:HD13	28:4W:21:ARG:HB3	2.02	0.41
64:5B:91:LYS:O	64:5B:95:THR:OG1	2.38	0.41
64:5C:148:THR:O	64:5C:152:THR:HG23	2.19	0.41
66:5L:25:LEU:O	66:5L:29:LEU:HG	2.21	0.41
1:A:226:ASN:OD1	69:A:500:GDP:N1	2.45	0.41
1:A:282:ARG:HD3	1:A:288:GLU:HG2	2.03	0.41
1:A:379:ARG:HE	1:A:419:VAL:CG1	2.30	0.41
2:AA:344:VAL:HG11	2:AA:346:TRP:CE2	2.56	0.41
2:AA:346:TRP:HZ2	2:AA:435:VAL:HG22	1.86	0.41
1:AB:4:ILE:HB	1:AB:50:TYR:HE1	1.86	0.41
1:AB:291:GLN:HE22	4:XM:98:SER:HA	1.85	0.41
2:AC:112:LYS:HD2	2:AC:152:LEU:HD21	2.02	0.41
2:AC:116:ASP:OD1	2:AC:116:ASP:N	2.52	0.41
1:AD:261:PRO:HB2	5:XN:305:TYR:HE2	1.85	0.41
2:AE:209:ILE:HG12	2:AE:302:LEU:HD12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AE:254:GLU:OE2	1:AF:98:GLY:N	2.54	0.41
1:AF:4:ILE:HD13	1:AF:131:GLN:HB3	2.03	0.41
1:AF:161:ASP:OD1	1:AF:162:ARG:N	2.54	0.41
1:AF:165:MET:HE3	1:AF:250:LEU:CD1	2.50	0.41
1:AF:261:PRO:HB2	4:XO:298:TYR:HE1	1.86	0.41
1:AH:65:LEU:HD22	1:AH:90:PHE:CE2	2.56	0.41
1:AH:178:THR:HG22	1:AH:179:VAL:N	2.36	0.41
1:AH:247:ASN:ND2	2:AI:11:GLN:OE1	2.54	0.41
2:AI:9:ILE:HG22	2:AI:146:GLY:HA2	2.03	0.41
1:AJ:113:ILE:O	1:AJ:117:LEU:HD23	2.21	0.41
2:AK:44:VAL:HG12	2:AK:358:GLN:HE22	1.84	0.41
1:AN:3:GLU:HA	1:AN:49:VAL:HG23	2.02	0.41
1:AN:178:THR:HG22	1:AN:180:VAL:H	1.86	0.41
1:AN:377:MET:HE3	1:AN:378:PHE:CE1	2.56	0.41
1:B:311:LEU:HD23	1:B:370:ASN:ND2	2.36	0.41
1:B:317:PHE:HD2	1:B:321:MET:SD	2.44	0.41
2:BA:8:HIS:CE1	2:BA:17:GLY:HA3	2.56	0.41
1:BB:145:SER:HB2	1:BB:188:SER:OG	2.20	0.41
1:BB:266:PHE:CE1	1:BB:370:ASN:HB2	2.56	0.41
1:BB:330:MET:HB3	1:BB:349:ILE:HG13	2.01	0.41
1:BB:398:TYR:HB3	1:BB:408:PHE:HZ	1.86	0.41
1:BD:350:LYS:HA	2:BE:179:THR:O	2.20	0.41
2:BE:257:THR:HG23	1:BF:397:TRP:CD1	2.56	0.41
2:BE:309:HIS:ND1	2:BE:386:GLU:OE2	2.54	0.41
2:BE:316:CYS:HB3	2:BE:318:MET:HE3	2.02	0.41
2:BG:143:GLY:HA3	71:BG:501:GTP:O3A	2.21	0.41
1:BH:217:LEU:CB	1:BH:220:PRO:HG3	2.51	0.41
1:BH:375:GLN:HB2	1:BH:419:VAL:HG13	2.01	0.41
2:BI:67:PHE:HB2	2:BI:92:LEU:HG	2.02	0.41
2:BI:156:ARG:HG3	2:BI:156:ARG:NH1	2.35	0.41
2:BI:194:LEU:O	2:BI:198:THR:HB	2.20	0.41
1:BJ:187:LEU:HD21	1:BJ:408:PHE:CD1	2.56	0.41
1:BJ:262:ARG:NH2	1:BJ:414:ASN:OD1	2.53	0.41
2:BK:326:LYS:NZ	1:BL:220:PRO:HD2	2.35	0.41
1:BL:20:PHE:HA	1:BL:230:ALA:HB1	2.03	0.41
1:BL:182:PRO:HG3	1:BL:384:GLN:HG2	2.03	0.41
1:BL:233:MET:O	1:BL:236:VAL:HG12	2.20	0.41
2:BM:270:THR:HA	2:BM:377:MET:O	2.21	0.41
2:BM:329:ASN:ND2	1:BN:208:TYR:CE2	2.89	0.41
2:C:320:ARG:HH21	2:C:358:GLN:HG3	1.85	0.41
2:C:352:LYS:HD3	1:CA:178:THR:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:206:ALA:O	1:CA:210:ILE:HG12	2.20	0.41
1:CA:330:MET:O	1:CA:333:VAL:HG12	2.21	0.41
2:CB:142:GLY:CA	2:CB:183:GLU:HG3	2.51	0.41
1:CC:102:ALA:HB1	1:CC:401:GLU:HB2	2.03	0.41
1:CC:361:LEU:HD13	1:CC:364:SER:HB2	2.03	0.41
2:CD:142:GLY:CA	2:CD:183:GLU:HG3	2.50	0.41
2:CD:155:GLU:O	2:CD:159:VAL:HG23	2.21	0.41
2:CD:367:ASP:O	16:0k:441:ARG:NH2	2.54	0.41
1:CE:117:LEU:HD21	1:CE:154:LYS:HZ1	1.86	0.41
1:CE:224:ASP:HA	1:CE:227:HIS:HB2	2.03	0.41
1:CE:361:LEU:CD2	26:1Q:311:GLU:HG2	2.50	0.41
2:CF:234:VAL:HG21	2:CF:302:LEU:CD1	2.51	0.41
1:CG:341:PHE:HB3	1:CG:348:ASN:OD1	2.21	0.41
2:CH:212:LEU:HD21	2:CH:275:VAL:HG11	2.03	0.41
2:CH:365:GLY:HA2	16:0l:932:PHE:CG	2.55	0.41
1:CI:25:SER:HB3	1:CI:30:VAL:HB	2.03	0.41
1:CI:187:LEU:HD11	1:CI:408:PHE:CZ	2.55	0.41
1:CI:361:LEU:HD23	1:CI:364:SER:HB3	2.03	0.41
1:CK:131:GLN:HE22	1:CK:249:ASP:HB2	1.86	0.41
1:CK:323:THR:HG21	2:CL:224:TYR:CZ	2.55	0.41
1:CM:83:GLN:HA	1:CM:83:GLN:OE1	2.21	0.41
2:D:107:HIS:HD2	2:D:152:LEU:HB2	1.85	0.41
2:D:195:LEU:HD12	2:D:266:HIS:NE2	2.36	0.41
1:DA:214:THR:HG21	1:DA:273:LEU:HB3	2.02	0.41
1:DA:252:LYS:HD2	2:DB:101:ASN:ND2	2.36	0.41
1:DA:258:VAL:HG23	2:DB:407:TRP:HE1	1.86	0.41
1:DA:309:ARG:O	1:DA:372:THR:OG1	2.32	0.41
2:DB:26:LEU:HD12	2:DB:363:VAL:HG12	2.03	0.41
2:DB:66:LEU:HD11	2:DB:121:ARG:HB2	2.03	0.41
2:DB:275:VAL:HG13	2:DB:275:VAL:O	2.21	0.41
1:DC:100:ASN:OD1	1:DC:102:ALA:HB3	2.21	0.41
1:DC:135:LEU:HG	1:DC:137:HIS:HD2	1.86	0.41
2:DD:21:TRP:CZ2	2:DD:65:CYS:HB3	2.56	0.41
1:DE:9:ALA:HB3	1:DE:137:HIS:HB3	2.02	0.41
1:DE:185:THR:O	1:DE:189:VAL:HG12	2.21	0.41
2:DF:312:TYR:HA	2:DF:381:SER:HB2	2.03	0.41
2:DF:328:VAL:HG11	2:DF:353:CYS:SG	2.61	0.41
1:DG:32:PRO:CB	1:DG:83:GLN:HE21	2.31	0.41
1:DG:203:ASP:HB2	1:DG:301:GLN:HA	2.02	0.41
2:DH:110:ILE:O	2:DH:113:GLU:HG2	2.21	0.41
2:DH:217:LEU:HD12	2:DH:367:ASP:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DH:319:TYR:CD1	2:DH:323:VAL:HG21	2.56	0.41
1:DI:167:PHE:CE1	1:DI:233:MET:HG2	2.56	0.41
1:DI:230:ALA:HA	1:DI:233:MET:HE3	2.02	0.41
1:DI:324:LYS:HE3	2:DJ:222:PRO:CB	2.49	0.41
2:DJ:203:MET:CE	2:DJ:384:ILE:HD13	2.50	0.41
1:DK:249:ASP:H	1:DK:252:LYS:HG2	1.86	0.41
1:DK:356:ILE:HD13	1:DK:356:ILE:HA	1.94	0.41
2:DL:234:VAL:HG21	2:DL:302:LEU:CD2	2.51	0.41
1:DM:45:GLU:O	1:DM:46:ARG:HD2	2.21	0.41
1:DM:45:GLU:HG3	1:DM:46:ARG:HG2	2.02	0.41
1:E:82:GLY:HA2	1:E:85:PHE:CE2	2.56	0.41
1:E:327:ASP:HB3	2:EA:177:VAL:HG13	2.03	0.41
1:EB:47:ILE:CG2	1:EB:51:PHE:HB2	2.51	0.41
1:EB:50:TYR:CD2	1:EB:241:ARG:HD3	2.56	0.41
1:EB:344:TRP:CD2	2:EC:401:LYS:HD3	2.56	0.41
2:EC:110:ILE:O	2:EC:113:GLU:HG2	2.20	0.41
2:EC:346:TRP:CE3	2:EC:347:CYS:HB2	2.56	0.41
2:EE:229:ARG:HD2	2:EE:363:VAL:HG21	2.03	0.41
2:EE:282:TYR:HD2	25:1O:609:ARG:HH12	1.69	0.41
2:EE:352:LYS:HA	1:EF:177:ASP:O	2.21	0.41
2:EE:413:MET:HG2	2:EE:417:GLU:HG3	2.03	0.41
1:EF:200:MET:HB3	1:EF:200:MET:HE2	1.73	0.41
1:EF:268:MET:HE1	1:EF:368:ILE:CD1	2.50	0.41
1:EF:371:ASN:OD1	1:EF:372:THR:N	2.54	0.41
1:EF:385:PHE:CE2	1:EF:412:GLU:HB2	2.55	0.41
1:EF:389:PHE:HZ	1:EF:405:GLU:HG3	1.86	0.41
2:EG:396:ASP:OD2	2:EG:422:ARG:NH2	2.51	0.41
2:EG:422:ARG:HH12	2:EG:426:ALA:HB2	1.86	0.41
2:EI:33:ASP:OD1	2:EI:34:GLY:N	2.54	0.41
2:EI:122:ILE:HG21	2:EI:157:LEU:HD21	2.03	0.41
2:EI:271:SER:OG	2:EI:377:MET:HB3	2.20	0.41
1:EJ:8:GLN:OE1	1:EJ:65:LEU:HD22	2.21	0.41
1:EJ:165:MET:CE	1:EJ:200:MET:HE1	2.51	0.41
1:EJ:282:ARG:NH2	1:EJ:288:GLU:HB3	2.35	0.41
1:EJ:294:PHE:HE2	1:EJ:367:PHE:CE2	2.37	0.41
1:EJ:299:MET:HE2	1:EJ:299:MET:HB2	1.95	0.41
2:EK:69:ASP:OD2	2:EK:71:GLU:HG3	2.21	0.41
2:EK:223:SER:OG	2:EK:224:TYR:N	2.50	0.41
2:EK:323:VAL:HG22	2:EK:373:ARG:HB2	2.03	0.41
2:EK:324:VAL:HG13	2:EK:327:ASP:H	1.85	0.41
2:EK:425:LEU:O	2:EK:429:GLU:OE1	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EL:132:GLY:HA2	1:EL:162:ARG:HB3	2.03	0.41
1:EL:316:LEU:HD23	1:EL:352:SER:HB2	2.01	0.41
2:FA:325:PRO:O	2:FA:328:VAL:HG22	2.21	0.41
1:FB:247:ASN:H	2:FC:11:GLN:HE22	1.68	0.41
1:FB:250:LEU:HA	1:FB:250:LEU:HD13	1.83	0.41
1:FB:313:ALA:HB1	1:FB:367:PHE:CE1	2.55	0.41
1:FB:327:ASP:HB3	2:FC:177:VAL:HG13	2.03	0.41
2:FC:262:TYR:OH	1:FD:391:ARG:O	2.31	0.41
1:FD:327:ASP:HB3	2:FE:177:VAL:HG21	2.03	0.41
1:FD:389:PHE:HD1	1:FD:395:LEU:HD11	1.86	0.41
2:FE:74:VAL:O	2:FE:78:VAL:HG23	2.21	0.41
1:FF:225:LEU:O	1:FF:229:VAL:HG23	2.21	0.41
1:FF:267:MET:HG3	1:FF:299:MET:HE2	2.01	0.41
2:FG:200:VAL:HG23	2:FG:256:GLN:HE22	1.86	0.41
2:FG:274:PRO:HG2	2:FG:286:LEU:HD13	2.02	0.41
1:FH:24:ILE:HD13	1:FH:24:ILE:HA	1.95	0.41
1:FH:103:LYS:HD3	1:FH:107:THR:OG1	2.21	0.41
2:FI:26:LEU:HD12	2:FI:363:VAL:HG12	2.03	0.41
1:FJ:19:LYS:HD3	1:FJ:19:LYS:HA	1.86	0.41
1:FJ:113:ILE:O	1:FJ:117:LEU:HD23	2.20	0.41
1:FJ:323:THR:HG21	2:FK:224:TYR:CE2	2.55	0.41
2:FK:19:ALA:HA	2:FK:22:GLU:HG2	2.03	0.41
2:FK:71:GLU:OE1	2:FK:73:THR:OG1	2.35	0.41
2:FK:331:ALA:HA	2:FK:334:THR:HG22	2.02	0.41
2:FK:428:LEU:HD12	2:FK:428:LEU:HA	1.92	0.41
1:FL:128:ASP:OD1	1:FL:129:CYS:N	2.53	0.41
1:G:48:ASN:HA	1:G:51:PHE:O	2.21	0.41
1:G:257:LEU:HD11	1:G:368:ILE:O	2.20	0.41
2:GA:212:LEU:HD21	2:GA:275:VAL:HG11	2.03	0.41
2:GA:268:VAL:HG21	2:GA:378:ILE:HD11	2.03	0.41
1:GB:232:VAL:HG22	1:GB:270:PHE:HB2	2.03	0.41
2:GC:152:LEU:HG	2:GC:156:ARG:HE	1.85	0.41
2:GC:302:LEU:O	2:GC:302:LEU:HD23	2.20	0.41
2:GC:317:LEU:HD12	2:GC:332:ILE:HD11	2.03	0.41
1:GD:167:PHE:CZ	1:GD:233:MET:HG2	2.56	0.41
1:GD:249:ASP:H	1:GD:252:LYS:HB3	1.86	0.41
1:GD:316:LEU:HB2	1:GD:366:THR:OG1	2.21	0.41
1:GD:372:THR:HB	1:GD:426:GLN:HB2	2.03	0.41
2:GE:291:ILE:O	2:GE:295:VAL:HG23	2.20	0.41
1:GF:202:ILE:HG23	1:GF:300:MET:HE2	2.03	0.41
1:GF:350:LYS:HA	2:GG:179:THR:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GG:5:ILE:HG12	2:GG:132:LEU:HD13	2.02	0.41
1:GH:66:MET:HE3	1:GH:66:MET:HB2	1.85	0.41
2:GI:11:GLN:HB2	71:GI:501:GTP:O1A	2.21	0.41
2:GI:395:PHE:CD2	2:GI:422:ARG:HD3	2.56	0.41
1:GJ:178:THR:HB	1:GJ:181:GLU:OE2	2.21	0.41
2:GK:101:ASN:HB3	2:GK:182:VAL:CG2	2.51	0.41
2:GK:147:SER:OG	2:GK:190:SER:HB3	2.20	0.41
2:GK:322:ASP:OD1	2:GK:373:ARG:NE	2.50	0.41
2:GK:389:ALA:HA	2:GK:392:ASP:OD2	2.21	0.41
2:GK:399:TYR:O	2:GK:402:ARG:NH1	2.54	0.41
1:GL:189:VAL:HG21	1:GL:415:MET:SD	2.61	0.41
1:H:207:LEU:HB3	1:H:225:LEU:HD22	2.02	0.41
1:H:244:GLY:HA2	1:H:354:CYS:HA	2.01	0.41
2:HA:254:GLU:HG3	1:HB:99:ASN:OD1	2.21	0.41
2:HA:306:ASP:HB3	2:HA:309:HIS:HD1	1.86	0.41
1:HB:31:ASP:OD2	1:HB:33:THR:OG1	2.39	0.41
1:HB:97:ALA:CB	1:HB:143:THR:HB	2.51	0.41
1:HB:112:LEU:O	1:HB:116:VAL:HG23	2.21	0.41
1:HB:193:VAL:HA	1:HB:264:HIS:NE2	2.35	0.41
1:HB:259:PRO:HG2	1:HB:263:LEU:HD12	2.03	0.41
1:HB:304:ASP:HB3	1:HB:307:HIS:CD2	2.55	0.41
2:HC:326:LYS:HD3	1:HD:212:PHE:HE1	1.86	0.41
2:HE:293:ASN:O	2:HE:297:GLU:HG2	2.21	0.41
2:HE:319:TYR:CG	2:HE:323:VAL:HG11	2.56	0.41
1:HF:4:ILE:HD11	1:HF:240:LEU:HD13	2.02	0.41
1:HF:22:GLU:HA	1:HF:81:TYR:CD2	2.55	0.41
1:HF:63:ALA:O	1:HF:89:ASN:ND2	2.49	0.41
1:HF:301:GLN:NE2	1:HF:377:MET:HE3	2.36	0.41
1:HF:306:ARG:HD3	64:5C:88:ASN:ND2	2.36	0.41
1:HF:321:MET:HE2	1:HF:363:MET:HE3	2.02	0.41
1:HF:395:LEU:HD12	1:HF:395:LEU:HA	1.81	0.41
2:HG:257:THR:HA	1:HH:397:TRP:NE1	2.36	0.41
1:HH:198:GLU:HG2	1:HH:266:PHE:CE2	2.55	0.41
1:HH:268:MET:SD	1:HH:268:MET:N	2.94	0.41
1:HH:347:ASN:ND2	2:HI:178:SER:HB3	2.36	0.41
2:HI:124:LYS:HB3	2:HI:124:LYS:HE2	1.82	0.41
1:HJ:156:ARG:HH21	1:HJ:164:MET:HE2	1.86	0.41
1:HJ:329:GLN:HA	1:HJ:332:ASN:HB2	2.02	0.41
1:HL:86:ARG:HH12	1:IL:282:ARG:HA	1.84	0.41
1:HL:130:LEU:HD23	1:HL:132:GLY:H	1.86	0.41
1:I:158:GLU:HG3	1:I:159:TYR:HD2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:270:PHE:O	1:I:273:LEU:HD13	2.21	0.41
1:I:311:LEU:HB2	1:I:370:ASN:O	2.20	0.41
2:IA:93:VAL:HG12	2:IA:114:ILE:HD11	2.02	0.41
1:IB:10:GLY:HA2	1:IB:143:THR:HG23	2.03	0.41
2:IC:195:LEU:HD13	2:IC:267:PHE:HE1	1.85	0.41
1:ID:57:GLY:HA3	19:0r:34:VAL:HG12	2.02	0.41
1:ID:139:LEU:HD21	1:ID:192:LEU:HD11	2.02	0.41
1:ID:185:THR:O	1:ID:189:VAL:HG13	2.21	0.41
2:IE:301:MET:HE2	2:IE:301:MET:HB3	1.75	0.41
1:IF:301:GLN:OE1	1:IF:301:GLN:HA	2.20	0.41
2:II:205:ASP:OD1	2:II:303:THR:HA	2.21	0.41
1:IJ:211:CYS:HB3	1:IJ:220:PRO:CG	2.51	0.41
2:IK:93:VAL:HG12	2:IK:114:ILE:HD11	2.02	0.41
2:IK:185:TYR:CE2	2:IK:404:PHE:HB2	2.56	0.41
2:IK:326:LYS:O	2:IK:329:ASN:HB2	2.21	0.41
1:IL:288:GLU:HA	1:IL:291:GLN:NE2	2.36	0.41
2:IM:88:ASN:O	2:IM:92:LEU:HD23	2.21	0.41
2:IM:115:VAL:O	2:IM:119:LEU:HD23	2.21	0.41
2:J:36:MET:HE2	2:J:36:MET:HB3	2.00	0.41
1:JA:22:GLU:HG2	1:JA:81:TYR:CD2	2.55	0.41
1:JA:267:MET:SD	1:JA:371:ASN:ND2	2.91	0.41
1:JA:326:VAL:O	1:JA:330:MET:HG2	2.21	0.41
2:JB:422:ARG:HD2	2:JB:422:ARG:HA	1.71	0.41
1:JC:10:GLY:O	1:JC:14:ASN:HB2	2.19	0.41
1:JC:313:ALA:HB1	1:JC:367:PHE:CE1	2.56	0.41
2:JD:167:LEU:HD21	2:JD:255:PHE:CE1	2.56	0.41
2:JD:345:ASP:OD1	2:JD:345:ASP:N	2.52	0.41
1:JE:20:PHE:O	1:JE:24:ILE:HG12	2.21	0.41
1:JE:46:ARG:NH2	2:JF:73:THR:HA	2.35	0.41
1:JE:152:ILE:HG22	1:JE:195:ASN:HB3	2.03	0.41
1:JE:361:LEU:HD13	1:JE:364:SER:HB2	2.01	0.41
2:JF:199:ASP:HB3	2:JF:256:GLN:CD	2.46	0.41
1:JG:165:MET:SD	1:JG:250:LEU:HD11	2.61	0.41
2:JH:199:ASP:HB3	2:JH:256:GLN:NE2	2.36	0.41
2:JH:212:LEU:HD21	2:JH:275:VAL:HG21	2.03	0.41
2:JH:254:GLU:O	2:JH:258:ASN:ND2	2.53	0.41
2:JH:274:PRO:HD3	2:JH:374:ALA:HA	2.03	0.41
2:JH:387:VAL:HG12	2:JH:390:ARG:NH2	2.35	0.41
1:JI:242:PHE:HB2	1:JI:354:CYS:SG	2.61	0.41
1:JI:310:TYR:HE2	1:JI:367:PHE:HZ	1.69	0.41
2:JJ:251:ASP:H	2:JJ:254:GLU:CG	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JK:22:GLU:HG3	1:JK:81:TYR:CG	2.55	0.41
1:JK:92:PHE:CZ	18:0p:232:ARG:HD3	2.56	0.41
2:JL:257:THR:HG1	1:JM:397:TRP:CG	2.38	0.41
2:JL:428:LEU:HA	2:JL:431:ASP:OD1	2.20	0.41
1:JM:73:MET:HE2	1:JM:73:MET:HB2	1.97	0.41
2:JN:21:TRP:NE1	2:JN:65:CYS:HB3	2.36	0.41
2:JN:62:VAL:HG21	2:KN:283:HIS:O	2.21	0.41
2:JN:232:GLY:HA2	2:JN:235:VAL:HG22	2.03	0.41
2:JN:284:GLU:OE2	2:JN:286:LEU:HD22	2.20	0.41
2:JN:391:ILE:HD12	2:JN:394:LYS:HD3	2.02	0.41
2:K:275:VAL:O	2:K:275:VAL:HG13	2.20	0.41
1:KA:174:ARG:HE	1:KA:205:GLU:HG3	1.84	0.41
1:KA:350:LYS:HA	2:KB:179:THR:O	2.21	0.41
2:KB:6:CYS:O	2:KB:65:CYS:HA	2.20	0.41
2:KB:40:LYS:HD3	20:0t:257:PRO:HG2	2.02	0.41
2:KB:91:GLN:HA	2:KB:121:ARG:HG2	2.02	0.41
2:KB:195:LEU:HD13	2:KB:428:LEU:HD22	2.03	0.41
1:KC:263:LEU:HD11	1:KC:425:TYR:CD1	2.56	0.41
1:KC:301:GLN:OE1	1:KC:377:MET:HE3	2.20	0.41
1:KC:350:LYS:NZ	1:KC:352:SER:HG	2.11	0.41
2:KD:70:LEU:HD12	2:KD:99:ALA:HB2	2.03	0.41
2:KD:298:PRO:CG	2:KD:308:ARG:HH12	2.34	0.41
1:KE:317:PHE:CD1	1:KE:365:VAL:HB	2.56	0.41
1:KE:325:GLU:H	2:KF:221:ARG:NH2	2.18	0.41
2:KF:413:MET:SD	2:KF:417:GLU:HG2	2.60	0.41
1:KG:10:GLY:HA2	1:KG:143:THR:HG23	2.01	0.41
1:KG:267:MET:HE2	1:KG:371:ASN:HB2	2.02	0.41
2:KH:72:PRO:HA	2:KH:94:SER:OG	2.21	0.41
2:KJ:121:ARG:HA	2:KJ:121:ARG:HD3	1.92	0.41
2:KJ:186:ASN:OD1	2:KJ:408:TYR:OH	2.30	0.41
2:KL:31:GLN:OE1	2:KL:31:GLN:N	2.54	0.41
2:KL:233:GLN:HG3	2:KL:368:LEU:HD12	2.02	0.41
2:KL:275:VAL:O	2:KL:275:VAL:HG13	2.21	0.41
1:KM:10:GLY:HA2	1:KM:143:THR:HG23	2.03	0.41
1:KM:246:LEU:HD12	1:KM:246:LEU:HA	1.89	0.41
1:KM:371:ASN:ND2	1:KM:373:CYS:SG	2.94	0.41
2:KN:387:VAL:HG23	2:KN:388:PHE:CD2	2.54	0.41
2:L:35:SER:CB	44:2v:406:PRO:HG3	2.51	0.41
2:L:42:ILE:HG22	2:L:46:ASP:HB2	2.03	0.41
1:LA:105:HIS:CE1	1:LA:150:LEU:HD13	2.55	0.41
2:LB:172:TYR:CD2	2:LB:203:MET:HG3	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LB:275:VAL:O	2:LB:275:VAL:HG13	2.21	0.41
1:LC:45:GLU:HG3	1:LC:46:ARG:HH11	1.86	0.41
2:LD:51:THR:HG21	2:LD:243:ARG:HG3	2.03	0.41
2:LD:91:GLN:HG2	2:LD:125:LEU:HD11	2.02	0.41
2:LD:264:ARG:HD2	13:0Y:120:LYS:NZ	2.36	0.41
2:LF:223:SER:OG	2:LF:224:TYR:N	2.54	0.41
2:LF:396:ASP:CG	2:LF:422:ARG:HE	2.29	0.41
1:LG:189:VAL:HG11	1:LG:415:MET:SD	2.61	0.41
2:LH:5:ILE:HG12	2:LH:132:LEU:HD13	2.02	0.41
2:LH:271:SER:OG	2:LH:295:VAL:HG13	2.21	0.41
1:LI:41:ASP:OD2	45:2z:8:ARG:HG2	2.21	0.41
1:LI:246:LEU:HD11	71:LJ:501:GTP:H5"	2.03	0.41
1:LK:7:CYS:O	1:LK:135:LEU:HA	2.21	0.41
2:LL:88:ASN:OD1	2:LL:89:PRO:HD2	2.21	0.41
2:LL:101:ASN:ND2	2:LL:143:GLY:HA2	2.36	0.41
2:LL:206:ASN:HD22	2:LL:227:VAL:HG11	1.85	0.41
1:LM:21:TRP:CZ3	1:LM:50:TYR:HB3	2.56	0.41
1:LM:112:LEU:HD22	1:LM:147:MET:HE1	2.02	0.41
1:LM:267:MET:HB3	1:LM:299:MET:CE	2.43	0.41
2:LN:71:GLU:OE2	2:LN:73:THR:OG1	2.22	0.41
2:LN:225:THR:HB	29:1l:194:GLN:OE1	2.21	0.41
1:LO:109:GLY:CA	1:LO:147:MET:HE2	2.51	0.41
1:M:113:ILE:O	1:M:117:LEU:HD23	2.21	0.41
1:M:134:GLN:HA	1:M:165:MET:HB2	2.03	0.41
1:M:267:MET:HE2	1:M:371:ASN:HB2	2.03	0.41
2:MA:141:VAL:HB	2:MA:187:CYS:HA	2.03	0.41
2:MA:296:PHE:HZ	2:MA:351:PHE:HE1	1.69	0.41
2:MA:319:TYR:CD1	2:MA:323:VAL:HG11	2.56	0.41
2:MA:349:THR:HG21	1:MB:182:PRO:HD3	2.02	0.41
1:MB:99:ASN:ND2	1:MB:178:THR:HG23	2.32	0.41
2:MC:79:ARG:HH22	2:MC:94:SER:HB2	1.86	0.41
1:MD:54:SER:OG	1:MD:55:SER:N	2.54	0.41
1:MD:231:ALA:HB1	1:MD:270:PHE:CD2	2.56	0.41
1:MD:294:PHE:HE2	1:MD:333:VAL:HG11	1.84	0.41
2:ME:118:ALA:O	2:ME:122:ILE:HG12	2.21	0.41
2:ME:396:ASP:OD1	2:ME:422:ARG:NH2	2.53	0.41
1:MF:385:PHE:HZ	1:MF:408:PHE:HD1	1.69	0.41
2:MG:81:GLY:O	2:MG:84:ARG:NH1	2.54	0.41
2:MG:211:ASP:HB3	2:MG:215:ARG:NH1	2.34	0.41
2:MG:250:VAL:HG21	2:MG:318:MET:HE1	2.02	0.41
2:MG:285:GLN:NE2	2:MG:287:SER:HB3	2.31	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MH:174:ARG:NH2	32:2C:243:SER:O	2.36	0.41
1:MH:323:THR:HG21	2:MI:224:TYR:CZ	2.56	0.41
2:MI:80:THR:O	2:MI:84:ARG:NH1	2.54	0.41
2:MI:207:GLU:HB3	33:2H:178:PHE:HD2	1.85	0.41
2:MI:329:ASN:ND2	1:MJ:175:VAL:HG22	2.35	0.41
2:MI:349:THR:HB	1:MJ:176:SER:OG	2.20	0.41
2:MI:388:PHE:CD2	2:MI:432:TYR:HE2	2.39	0.41
1:MJ:8:GLN:NE2	1:MJ:17:GLY:HA3	2.35	0.41
2:MK:155:GLU:HB3	2:MK:197:HIS:CD2	2.56	0.41
2:MK:392:ASP:HA	2:MK:395:PHE:HB3	2.01	0.41
2:MK:393:HIS:CD2	14:0d:56:PRO:HD3	2.56	0.41
1:ML:198:GLU:HA	1:ML:264:HIS:HB2	2.03	0.41
2:MM:127:ASP:OD1	2:MM:128:ASN:N	2.54	0.41
2:MM:309:HIS:CE1	14:0d:231:LEU:HD21	2.55	0.41
2:MM:398:MET:CE	2:MM:404:PHE:HD2	2.33	0.41
1:MN:12:CYS:SG	1:MN:138:SER:HB3	2.60	0.41
1:MN:148:GLY:O	1:MN:152:ILE:HG12	2.20	0.41
1:N:2:ARG:HD3	2:NA:96:LYS:HE3	2.03	0.41
1:N:46:ARG:NH2	2:NA:76:ASP:OD2	2.54	0.41
1:N:143:THR:HG1	69:N:500:GDP:PB	2.44	0.41
2:NA:311:LYS:HD2	2:NA:344:VAL:HG12	2.02	0.41
1:NB:332:ASN:O	1:NB:336:LYS:HG2	2.21	0.41
2:NC:151:ALA:O	2:NC:155:GLU:HG3	2.20	0.41
2:NC:319:TYR:CD1	2:NC:323:VAL:HG11	2.56	0.41
2:NC:346:TRP:CD1	2:NC:346:TRP:H	2.38	0.41
1:ND:19:LYS:HG3	1:ND:22:GLU:CD	2.46	0.41
1:ND:19:LYS:HA	1:ND:22:GLU:HG2	2.03	0.41
1:ND:190:HIS:HB2	1:ND:414:ASN:ND2	2.35	0.41
2:NE:332:ILE:O	2:NE:336:LYS:HG2	2.20	0.41
1:NF:67:ASP:OD1	1:NF:143:THR:HG21	2.21	0.41
1:NF:87:PRO:HD3	1:OF:281:TYR:CD1	2.56	0.41
1:NF:170:ILE:N	1:NF:202:ILE:O	2.54	0.41
2:NG:312:TYR:CD1	2:NG:381:SER:HB2	2.56	0.41
1:NH:50:TYR:CD2	1:NH:241:ARG:HD3	2.56	0.41
1:NH:67:ASP:OD2	1:NH:72:THR:HG21	2.20	0.41
1:NH:313:ALA:HB1	1:NH:367:PHE:CE1	2.56	0.41
2:NI:292:THR:HG21	2:NI:331:ALA:HB1	2.01	0.41
1:NJ:151:LEU:O	1:NJ:155:LEU:HD23	2.21	0.41
1:NJ:268:MET:HG3	1:NJ:368:ILE:CD1	2.51	0.41
1:NJ:329:GLN:O	1:NJ:333:VAL:HG23	2.20	0.41
2:NK:112:LYS:HA	2:NK:115:VAL:HG12	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NK:145:THR:H	71:NK:501:GTP:PG	2.44	0.41
2:NK:169:TYR:HB3	2:NK:204:LEU:HD11	2.03	0.41
2:NK:257:THR:HA	1:NL:397:TRP:NE1	2.35	0.41
2:NK:295:VAL:HG21	2:NK:375:VAL:HG13	2.01	0.41
2:NK:329:ASN:OD1	1:NL:175:VAL:HG22	2.20	0.41
1:NL:187:LEU:HD21	1:NL:408:PHE:CD1	2.56	0.41
2:NM:40:LYS:HD2	2:NM:40:LYS:HA	1.89	0.41
2:NM:167:LEU:HD11	2:NM:255:PHE:HE2	1.86	0.41
2:NM:237:SER:HA	2:NM:320:ARG:HD2	2.02	0.41
1:O:417:ASP:OD1	1:O:418:LEU:N	2.54	0.41
2:OA:164:LYS:HD3	2:OA:164:LYS:HA	1.92	0.41
2:OA:356:ASN:OD1	2:OA:357:TYR:N	2.54	0.41
1:OB:322:SER:HB2	2:OC:222:PRO:O	2.21	0.41
1:OD:8:GLN:HB3	1:OD:14:ASN:HA	2.02	0.41
1:OD:270:PHE:HD1	1:OD:366:THR:HG22	1.85	0.41
1:OD:326:VAL:HG11	1:OD:353:ILE:HD11	2.02	0.41
2:OE:172:TYR:CE2	2:OE:203:MET:HE1	2.56	0.41
1:OF:122:LYS:NZ	1:PF:288:GLU:OE2	2.46	0.41
1:OF:242:PHE:HB2	1:OF:354:CYS:SG	2.61	0.41
2:OG:28:HIS:CE1	2:OG:243:ARG:HD2	2.56	0.41
2:OG:120:ASP:O	2:OG:124:LYS:HG2	2.20	0.41
2:OG:370:LYS:NZ	41:2o:305:TYR:HE1	2.18	0.41
2:OG:372:GLN:OE1	2:OG:372:GLN:HA	2.21	0.41
1:OH:293:MET:HG3	1:OH:367:PHE:HB2	2.02	0.41
2:OI:70:LEU:HD12	2:OI:110:ILE:HG22	2.03	0.41
2:OI:188:VAL:HG21	2:OI:395:PHE:HB2	2.02	0.41
1:OJ:152:ILE:HD12	1:OJ:164:MET:SD	2.60	0.41
2:OK:82:THR:HG21	28:1h:119:PRO:HA	2.02	0.41
2:OK:141:VAL:HG13	2:OK:170:THR:HG21	2.02	0.41
2:OK:425:LEU:O	2:OK:429:GLU:OE1	2.39	0.41
1:OL:2:ARG:NH1	2:OM:71:GLU:OE1	2.47	0.41
1:OL:3:GLU:HA	1:OL:49:VAL:HA	2.03	0.41
1:P:304:ASP:OD2	1:P:306:ARG:NH1	2.54	0.41
1:P:414:ASN:HA	1:P:417:ASP:HB2	2.03	0.41
2:PA:25:CYS:HB3	2:PA:30:ILE:O	2.21	0.41
2:PA:84:ARG:HG3	2:PA:85:GLN:N	2.36	0.41
2:PA:253:THR:O	2:PA:257:THR:HG22	2.21	0.41
2:PA:262:TYR:OH	1:PB:391:ARG:O	2.38	0.41
2:PA:286:LEU:HD22	2:PA:291:ILE:HD11	2.03	0.41
1:PB:272:PRO:HA	1:PB:292:GLN:HE22	1.84	0.41
2:PC:84:ARG:HG3	2:PC:85:GLN:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PD:149:THR:HA	1:PD:152:ILE:HD12	2.03	0.41
1:PD:186:THR:HG21	1:PD:385:PHE:CD2	2.56	0.41
2:PE:111:GLY:HA2	2:PE:114:ILE:HG22	2.03	0.41
2:PE:185:TYR:OH	2:PE:403:ALA:O	2.35	0.41
1:PF:66:MET:SD	1:PF:151:LEU:HD22	2.61	0.41
2:PG:1:MET:HE3	2:PG:2:ARG:N	2.35	0.41
2:PG:297:GLU:HA	2:PG:297:GLU:OE1	2.21	0.41
2:PI:139:HIS:CE1	2:PI:170:THR:HG22	2.55	0.41
1:PJ:215:LEU:HD21	1:PJ:273:LEU:HD22	2.03	0.41
1:PJ:245:GLN:HG3	1:PJ:355:ASP:OD1	2.21	0.41
1:PJ:364:SER:OG	1:PJ:365:VAL:N	2.54	0.41
2:PK:429:GLU:O	2:PK:433:GLU:HG3	2.21	0.41
1:PL:114:ASP:OD1	1:PL:114:ASP:N	2.52	0.41
1:PL:141:GLY:O	1:PL:145:SER:OG	2.35	0.41
1:PL:221:THR:HG22	1:PL:222:PHE:H	1.85	0.41
2:PM:89:PRO:HD2	2:QL:283:HIS:ND1	2.36	0.41
2:PM:102:ASN:HB3	2:PM:105:ARG:HG2	2.03	0.41
2:PM:185:TYR:CE2	2:PM:398:MET:HE3	2.55	0.41
1:QA:204:ASN:OD1	69:QA:500:GDP:O2'	2.23	0.41
1:QA:345:ILE:HD11	2:QB:404:PHE:HE1	1.86	0.41
2:QB:430:LYS:O	56:3d:123:MET:HE1	2.21	0.41
1:QC:121:ARG:NH2	1:QC:158:GLU:OE2	2.37	0.41
1:QC:236:VAL:HG13	1:QC:237:THR:HG23	2.02	0.41
1:QC:255:VAL:HG23	2:QD:407:TRP:CD1	2.56	0.41
1:QC:258:VAL:HB	2:QD:407:TRP:HZ2	1.86	0.41
1:QC:324:LYS:HD3	2:QD:222:PRO:HD2	2.02	0.41
2:QD:215:ARG:HG3	59:4a:201:TYR:CE1	2.56	0.41
2:QD:326:LYS:HD3	1:QE:212:PHE:HE2	1.86	0.41
1:QE:230:ALA:HA	1:QE:233:MET:HB2	2.02	0.41
1:QG:210:ILE:HD11	1:QG:300:MET:HA	2.03	0.41
2:QH:49:PHE:CD2	2:QH:61:HIS:CD2	3.09	0.41
1:QI:54:SER:OG	1:QI:55:SER:N	2.54	0.41
1:QI:392:LYS:HG3	1:QI:395:LEU:HD22	2.02	0.41
2:QJ:21:TRP:CZ3	2:QJ:52:PHE:HB3	2.56	0.41
2:QJ:23:LEU:O	2:QJ:27:GLU:HG3	2.20	0.41
2:QJ:251:ASP:H	2:QJ:254:GLU:CB	2.33	0.41
1:QK:68:LEU:HB3	1:QK:96:GLY:HA2	2.02	0.41
2:QL:144:GLY:O	2:QL:148:GLY:N	2.45	0.41
2:QL:203:MET:HE1	2:QL:267:PHE:HD2	1.86	0.41
1:RA:130:LEU:HD23	1:RA:162:ARG:HH11	1.85	0.41
2:RB:49:PHE:HE1	2:RB:55:GLU:HB2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:RB:251:ASP:HB2	2:RB:254:GLU:HG2	2.03	0.41
1:RC:121:ARG:NH1	1:RC:158:GLU:OE2	2.49	0.41
2:RD:121:ARG:NH1	2:RD:124:LYS:HD3	2.36	0.41
2:RD:252:LEU:HA	2:RD:255:PHE:CE1	2.56	0.41
2:RD:321:GLY:HA3	2:RD:372:GLN:O	2.20	0.41
2:RD:431:ASP:OD1	2:RD:432:TYR:N	2.54	0.41
1:RE:246:LEU:HD22	1:RE:352:SER:HA	2.03	0.41
1:RE:350:LYS:HA	2:RF:179:THR:O	2.21	0.41
1:RE:415:MET:HE3	1:RE:415:MET:HB3	1.88	0.41
2:RF:27:GLU:OE2	2:RF:243:ARG:NH1	2.54	0.41
2:RF:336:LYS:HE3	2:RF:351:PHE:HD2	1.84	0.41
1:RG:13:GLY:O	1:RG:16:ILE:HG22	2.21	0.41
1:RG:86:ARG:HB2	1:RG:89:ASN:ND2	2.36	0.41
1:RG:183:TYR:HE1	1:RG:388:MET:HB2	1.86	0.41
2:RH:175:PRO:HB3	2:RH:390:ARG:NH1	2.36	0.41
2:RH:258:ASN:HD21	1:RI:178:THR:HB	1.85	0.41
2:RH:336:LYS:HE3	2:RH:351:PHE:HD2	1.86	0.41
2:RH:419:SER:O	2:RH:423:GLU:OE1	2.39	0.41
1:RI:239:CYS:HG	1:RI:248:SER:HG	1.59	0.41
1:RI:240:LEU:HD11	1:RI:250:LEU:HD23	2.03	0.41
2:RJ:8:HIS:HB3	2:RJ:13:GLY:O	2.21	0.41
2:RJ:339:ARG:HH22	57:3h:88:VAL:HG22	1.85	0.41
1:RK:305:PRO:HB3	1:RK:371:ASN:ND2	2.36	0.41
1:RK:346:PRO:HG2	2:RL:394:LYS:HD2	2.02	0.41
2:RL:22:GLU:HG3	2:RL:83:TYR:OH	2.21	0.41
2:RL:203:MET:HE3	2:RL:267:PHE:HD2	1.85	0.41
1:S:19:LYS:O	1:S:22:GLU:HB2	2.21	0.41
1:S:268:MET:HE2	1:S:368:ILE:HG23	2.01	0.41
1:S:329:GLN:O	1:S:333:VAL:HG23	2.20	0.41
2:SA:117:LEU:HD11	2:SA:121:ARG:CZ	2.51	0.41
2:SA:139:HIS:CE1	2:SA:170:THR:HG22	2.56	0.41
2:SA:173:PRO:HG3	2:SA:183:GLU:HG2	2.02	0.41
2:SA:251:ASP:H	2:SA:254:GLU:CG	2.31	0.41
1:SB:112:LEU:O	1:SB:116:VAL:HG23	2.21	0.41
1:SB:200:MET:HE2	1:SB:200:MET:HB2	1.90	0.41
2:SC:1:MET:HE2	2:SC:130:THR:HG23	2.02	0.41
1:SD:22:GLU:HG2	1:SD:81:TYR:CD1	2.56	0.41
1:SD:167:PHE:CZ	1:SD:233:MET:HG2	2.56	0.41
1:SD:316:LEU:HB2	1:SD:366:THR:HG22	2.03	0.41
2:SE:174:SER:HB2	2:SE:177:VAL:O	2.20	0.41
2:SE:329:ASN:HD21	1:SF:175:VAL:HG13	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SF:12:CYS:SG	1:SF:169:VAL:HG21	2.61	0.41
1:SF:209:ASP:OD2	1:SF:213:ARG:NH2	2.53	0.41
1:SH:18:SER:O	1:SH:22:GLU:HG3	2.20	0.41
1:SH:144:GLY:N	69:SH:500:GDP:O2B	2.41	0.41
1:SH:198:GLU:HB2	1:SH:266:PHE:HE2	1.86	0.41
1:SH:253:LEU:HD23	1:SH:368:ILE:HD12	2.03	0.41
2:SI:22:GLU:HG2	2:SI:83:TYR:CZ	2.56	0.41
2:SI:272:TYR:HD1	2:SI:376:CYS:HB2	1.86	0.41
2:SI:291:ILE:O	2:SI:295:VAL:HG23	2.21	0.41
2:SI:425:LEU:O	2:SI:428:LEU:HB2	2.21	0.41
1:SJ:186:THR:HG22	1:SJ:411:ALA:HB1	2.02	0.41
1:SJ:199:SER:O	1:SJ:265:PHE:HA	2.20	0.41
1:SJ:226:ASN:HA	1:SJ:229:VAL:HG12	2.03	0.41
1:SJ:345:ILE:HG23	2:SK:398:MET:HE2	2.02	0.41
2:SK:17:GLY:HA2	2:SK:20:CYS:SG	2.60	0.41
2:SK:170:THR:HG1	2:SK:172:TYR:HE1	1.67	0.41
2:SK:209:ILE:CD1	2:SK:302:LEU:HG	2.51	0.41
1:T:167:PHE:CE2	1:T:233:MET:HG3	2.55	0.41
1:T:237:THR:O	1:T:241:ARG:HG3	2.21	0.41
1:T:271:ALA:HB3	1:T:365:VAL:HG12	2.03	0.41
1:T:342:ILE:HD12	1:T:344:TRP:CE2	2.56	0.41
2:TA:257:THR:HG21	1:TB:98:GLY:O	2.21	0.41
1:TB:117:LEU:HD11	1:TB:154:LYS:HE2	2.03	0.41
1:TB:232:VAL:HB	1:TB:268:MET:HE1	2.02	0.41
1:TB:287:ALA:O	1:TB:291:GLN:HG2	2.21	0.41
2:TC:7:ILE:HG21	2:TC:153:LEU:HD21	2.03	0.41
2:TC:21:TRP:CZ2	2:TC:65:CYS:HB3	2.56	0.41
2:TC:201:ALA:HB3	2:TC:267:PHE:CD1	2.56	0.41
1:TD:203:ASP:HB3	1:TD:301:GLN:HA	2.03	0.41
1:TD:414:ASN:N	1:TD:414:ASN:HD22	2.18	0.41
2:TE:89:PRO:HB2	2:UE:280:LYS:HZ3	1.84	0.41
2:TE:195:LEU:HD21	2:TE:267:PHE:HE1	1.85	0.41
2:TE:326:LYS:HB2	1:TF:212:PHE:CZ	2.56	0.41
2:TE:392:ASP:HA	2:TE:395:PHE:HB3	2.03	0.41
1:TF:66:MET:SD	1:TF:116:VAL:HG11	2.61	0.41
1:TF:190:HIS:HB2	1:TF:414:ASN:HD22	1.86	0.41
2:TG:93:VAL:HG12	2:TG:114:ILE:HD11	2.02	0.41
2:TG:140:ALA:HB2	2:TG:171:VAL:HB	2.03	0.41
2:TG:326:LYS:HZ2	1:TH:220:PRO:HD2	1.85	0.41
1:TH:239:CYS:HB3	1:TH:248:SER:H	1.86	0.41
1:TH:267:MET:HE3	1:TH:373:CYS:SG	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:TI:133:GLN:O	2:TI:165:SER:CB	2.68	0.41
2:TI:352:LYS:HG3	1:TJ:177:ASP:O	2.20	0.41
2:TK:53:PHE:O	2:TK:64:ARG:NH2	2.54	0.41
2:TK:258:ASN:HD22	2:TK:352:LYS:NZ	2.18	0.41
2:TK:362:VAL:HG21	21:0x:476:GLN:NE2	2.35	0.41
2:TK:425:LEU:HD12	2:TK:425:LEU:HA	1.96	0.41
1:TL:19:LYS:HG2	1:TL:226:ASN:C	2.45	0.41
1:TL:60:VAL:HG21	1:TL:86:ARG:HD3	2.03	0.41
1:TL:203:ASP:OD2	1:TL:302:ALA:HB3	2.21	0.41
1:TL:251:ARG:O	1:TL:255:VAL:HG12	2.20	0.41
1:U:2:ARG:N	1:U:129:CYS:O	2.54	0.41
2:UA:101:ASN:HA	2:UA:144:GLY:H	1.85	0.41
2:UA:336:LYS:NZ	2:UA:348:PRO:O	2.49	0.41
2:UA:406:HIS:HA	2:UA:409:VAL:HG22	2.02	0.41
1:UB:315:ALA:HB3	1:UB:330:MET:HE1	2.03	0.41
1:UD:182:PRO:HG3	1:UD:384:GLN:NE2	2.36	0.41
2:UE:275:VAL:O	2:UE:275:VAL:HG13	2.20	0.41
2:UE:334:THR:O	2:UE:338:LYS:HG3	2.21	0.41
1:UF:326:VAL:O	1:UF:330:MET:HG2	2.21	0.41
2:UG:1:MET:N	2:UG:3:GLU:OE2	2.44	0.41
2:UG:315:CYS:CB	2:UG:377:MET:HE1	2.50	0.41
1:UH:148:GLY:O	1:UH:152:ILE:HG12	2.21	0.41
1:UH:173:PRO:HD3	1:UH:380:ARG:NH1	2.36	0.41
2:UI:278:ALA:HA	2:UI:369:ALA:HB2	2.03	0.41
1:UJ:237:THR:HG22	1:UJ:250:LEU:HD21	2.02	0.41
1:UJ:267:MET:N	1:UJ:369:GLY:O	2.34	0.41
2:UK:27:GLU:OE1	2:UK:243:ARG:NH2	2.49	0.41
2:UK:27:GLU:OE2	2:UK:236:SER:OG	2.32	0.41
2:UK:154:LEU:HD23	2:UK:154:LEU:HA	1.88	0.41
2:UK:296:PHE:CZ	2:UK:335:ILE:HG12	2.56	0.41
1:UL:58:ARG:CZ	1:VL:281:TYR:HE1	2.34	0.41
1:UL:63:ALA:O	1:UL:89:ASN:ND2	2.41	0.41
1:UL:121:ARG:NH1	1:UL:158:GLU:OE2	2.52	0.41
1:UL:380:ARG:O	1:UL:384:GLN:OE1	2.39	0.41
1:UL:417:ASP:O	1:UL:420:SER:N	2.54	0.41
1:V:14:ASN:HD22	1:V:72:THR:HG22	1.86	0.41
1:V:86:ARG:HB3	1:V:88:ASP:OD1	2.21	0.41
1:V:386:THR:O	1:V:390:ARG:HG2	2.20	0.41
2:VA:75:VAL:HG13	2:VA:92:LEU:HG	2.03	0.41
1:VB:134:GLN:HA	1:VB:165:MET:O	2.21	0.41
2:VC:182:VAL:O	2:VC:185:TYR:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VC:256:GLN:HE21	2:VC:256:GLN:HB2	1.74	0.41
1:VD:3:GLU:OE1	1:VD:130:LEU:HB2	2.21	0.41
1:VD:100:ASN:HB3	1:VD:103:LYS:HB2	2.02	0.41
1:VD:257:LEU:HD12	1:VD:312:THR:OG1	2.21	0.41
2:VE:2:ARG:HH21	1:VF:71:GLY:CA	2.34	0.41
2:VE:27:GLU:CD	2:VE:243:ARG:HH12	2.29	0.41
2:VE:33:ASP:O	2:VE:60:LYS:NZ	2.51	0.41
2:VG:236:SER:HA	2:VG:239:THR:HG22	2.03	0.41
2:VG:271:SER:HB3	2:VG:301:MET:HG3	2.02	0.41
2:VI:319:TYR:CD2	2:VI:375:VAL:HB	2.56	0.41
2:VI:335:ILE:HD13	2:VI:335:ILE:HA	1.96	0.41
2:VI:408:TYR:CG	2:VI:418:PHE:HZ	2.39	0.41
1:VJ:135:LEU:HD12	1:VJ:151:LEU:HD23	2.03	0.41
1:VJ:318:ARG:NH1	1:VJ:358:PRO:HG3	2.35	0.41
2:VK:205:ASP:OD1	2:VK:303:THR:HA	2.21	0.41
2:VK:296:PHE:HE2	2:VK:317:LEU:HD11	1.86	0.41
2:VK:395:PHE:CD2	2:VK:422:ARG:HD3	2.56	0.41
1:VL:46:ARG:NH2	2:VM:76:ASP:OD2	2.34	0.41
1:VL:228:LEU:HD23	1:VL:228:LEU:HA	1.93	0.41
2:VM:105:ARG:HG3	2:VM:411:GLU:HG3	2.03	0.41
2:WA:52:PHE:CD2	2:WA:243:ARG:HD3	2.56	0.41
2:WA:167:LEU:HD11	2:WA:252:LEU:HD22	2.03	0.41
2:WA:389:ALA:HA	2:WA:392:ASP:OD2	2.21	0.41
1:WB:3:GLU:HB3	1:WB:62:ARG:NH1	2.36	0.41
1:WB:152:ILE:HG22	1:WB:195:ASN:HB3	2.03	0.41
2:WC:117:LEU:O	2:WC:121:ARG:HG2	2.20	0.41
1:WD:229:VAL:HA	1:WD:232:VAL:HG12	2.03	0.41
1:WD:257:LEU:HB3	1:WD:266:PHE:CE1	2.56	0.41
1:WF:364:SER:OG	1:WF:365:VAL:N	2.54	0.41
2:WG:69:ASP:OD2	2:WG:71:GLU:HG3	2.20	0.41
1:WH:34:GLY:HA3	1:WH:58:ARG:HG3	2.03	0.41
2:WI:213:THR:HG23	2:WI:217:LEU:HD12	2.03	0.41
1:WJ:183:TYR:OH	1:WJ:393:ALA:O	2.35	0.41
1:WJ:375:GLN:OE1	1:WJ:379:ARG:NH2	2.53	0.41
2:WK:36:MET:HE2	2:WK:61:HIS:NE2	2.36	0.41
2:WK:52:PHE:HE2	2:WK:243:ARG:HH11	1.69	0.41
1:WL:33:THR:OG1	14:0d:356:LYS:HE2	2.20	0.41
1:WL:100:ASN:HB3	1:WL:103:LYS:HB2	2.03	0.41
1:WL:105:HIS:HD2	1:WL:106:TYR:CE2	2.39	0.41
1:WL:113:ILE:HG12	1:WL:150:LEU:CD2	2.51	0.41
2:WM:63:PRO:HG2	2:WM:87:PHE:CE1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:WM:228:ASN:OD1	71:WM:501:GTP:N1	2.37	0.41
3:XB:13:ILE:HD13	3:XB:167:PHE:HE1	1.86	0.41
3:XC:168:SER:HB2	3:XC:172:TYR:CE1	2.55	0.41
3:XE:96:ASP:HB3	3:XE:147:ASN:HB2	2.03	0.41
3:XF:76:LEU:HD12	3:XF:167:PHE:CZ	2.56	0.41
4:XM:149:GLU:HG2	4:XM:151:GLU:H	1.86	0.41
5:XP:210:MET:HB3	5:XP:211:PRO:HD3	2.03	0.41
4:XQ:187:ARG:O	4:XQ:187:ARG:HD2	2.21	0.41
4:XR:241:ARG:HG3	4:XR:241:ARG:NH1	2.35	0.41
6:0:32:LEU:HD11	14:0c:211:ALA:HB1	2.02	0.41
6:0:55:GLU:O	6:0:59:ILE:HG12	2.21	0.41
6:0:205:TYR:O	6:0:207:PRO:HD3	2.21	0.41
7:0C:275:SER:O	38:2U:86:ARG:NH1	2.53	0.41
7:0C:378:ASP:O	7:0C:382:VAL:HG22	2.20	0.41
7:0D:113:GLU:HA	7:0D:116:TYR:CE1	2.55	0.41
8:0F:50:GLY:HA2	8:0F:55:HIS:HD2	0.62	0.41
8:0G:391:LYS:HA	8:0G:391:LYS:HD2	1.90	0.41
8:0I:131:MET:HE2	8:0J:458:LYS:HG3	2.02	0.41
8:0I:242:ILE:HG23	8:0I:246:ARG:NH2	2.36	0.41
9:0L:106:LEU:O	9:0L:106:LEU:HD12	2.21	0.41
9:0L:352:ASN:O	9:0L:356:CYS:N	2.54	0.41
9:0L:380:LEU:HD12	9:0L:380:LEU:HA	1.89	0.41
9:0M:29:HIS:HB3	9:0M:31:ASP:OD1	2.21	0.41
9:0M:376:ARG:NH1	9:0M:432:ASN:O	2.54	0.41
9:0M:393:PHE:CE1	9:0M:400:LEU:HD13	2.56	0.41
9:0M:435:HIS:ND1	9:0M:436:ARG:HG3	2.36	0.41
9:0N:36:LEU:HD13	9:0N:69:VAL:HG21	2.02	0.41
9:0N:169:ILE:HG22	9:0N:205:ILE:HD13	2.02	0.41
9:0N:248:LEU:HD13	9:0N:302:LYS:HZ3	1.85	0.41
10:0S:309:ARG:O	10:0S:312:GLU:HG3	2.21	0.41
11:0U:119:LEU:HD23	11:0U:119:LEU:HA	1.93	0.41
12:0W:332:ASP:OD1	18:0p:276:ARG:NH1	2.54	0.41
13:0Z:42:ALA:H	13:0Z:57:ALA:HA	1.85	0.41
14:0d:281:LEU:HB3	14:0d:344:ILE:HD13	2.02	0.41
14:0d:347:ASP:HA	14:0d:352:GLY:HA2	2.03	0.41
15:0f:109:TYR:CE1	15:0f:117:MET:HE1	2.56	0.41
16:0l:315:ARG:NH1	16:0l:316:PRO:HD2	2.34	0.41
16:0l:421:PHE:CG	16:0l:438:ARG:HG2	2.56	0.41
16:0l:603:GLN:O	16:0l:607:THR:HG23	2.21	0.41
16:0l:661:LEU:HB3	16:0l:665:PHE:CE2	2.55	0.41
16:0k:63:ARG:CG	16:0k:67:ARG:HH12	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:0k:154:LEU:HA	16:0k:157:LEU:HD12	2.03	0.41
16:0k:776:PHE:CD2	16:0k:813:LEU:HG	2.56	0.41
18:0p:199:ARG:HB2	18:0p:207:PHE:CD1	2.56	0.41
19:0r:165:SER:OG	19:0r:168:ARG:HG2	2.21	0.41
19:0r:302:PHE:CD2	19:0r:305:ALA:HB3	2.56	0.41
20:0u:88:LYS:CG	20:0u:95:GLN:HB2	2.51	0.41
21:0w:217:ASN:O	21:0w:220:GLU:HG2	2.20	0.41
21:0x:471:HIS:HD1	21:0x:471:HIS:C	2.29	0.41
23:1A:243:LEU:HD23	45:2y:163:VAL:HG21	2.03	0.41
23:1D:49:ALA:O	23:1D:53:LYS:HG2	2.21	0.41
23:1E:330:TRP:N	29:1k:182:ARG:HH21	2.19	0.41
24:1H:527:ASP:O	24:1H:531:ILE:HG13	2.20	0.41
24:1H:664:GLN:O	24:1H:668:GLN:HG3	2.21	0.41
24:1I:478:ARG:HH21	24:1I:479:ARG:HG3	1.86	0.41
24:1I:664:GLN:O	24:1I:668:GLN:HG3	2.20	0.41
24:1I:681:THR:HG21	24:1I:729:TYR:HB2	2.02	0.41
24:1J:9:MET:HE3	44:2w:120:PRO:HD2	2.03	0.41
24:1J:37:ILE:HG22	24:1J:41:ARG:NH1	2.36	0.41
24:1J:135:LYS:HZ2	24:1J:144:PRO:HD3	1.86	0.41
25:1O:637:TYR:O	25:1O:641:LEU:HD23	2.20	0.41
26:1Q:426:PHE:HE2	26:1Q:450:LEU:HD11	1.86	0.41
26:1Q:431:GLU:HG2	26:1Q:442:ARG:O	2.21	0.41
27:1S:180:PRO:HG2	37:2S:145:LYS:HG2	2.02	0.41
28:1h:25:CYS:SG	28:1h:27:LYS:HB2	2.60	0.41
29:1l:188:GLU:HB3	29:1l:209:HIS:NE2	2.36	0.41
31:1q:51:PRO:HG3	31:1q:80:ALA:HB3	2.03	0.41
31:1q:151:LYS:HD2	22:1w:178:LYS:NZ	2.36	0.41
31:1t:154:LEU:HD23	22:1y:182:LEU:HD11	2.03	0.41
22:1w:58:LYS:O	22:1w:62:ILE:HG23	2.21	0.41
22:1w:72:THR:HG22	48:3F:43:LYS:NZ	2.36	0.41
22:1w:224:ARG:O	22:1w:228:LEU:HD23	2.21	0.41
32:2C:182:THR:O	32:2C:186:LYS:HG3	2.21	0.41
33:2F:169:PRO:O	33:2F:171:LEU:HD12	2.20	0.41
38:2U:214:ASP:OD1	38:2U:217:VAL:HG12	2.20	0.41
39:2X:67:ARG:HD2	39:2X:68:GLU:N	2.36	0.41
41:2c:299:MET:HE3	41:2c:299:MET:HB3	1.87	0.41
41:2c:356:VAL:O	41:2c:360:LEU:HD23	2.21	0.41
41:2c:356:VAL:HA	41:2c:359:MET:HG2	2.03	0.41
41:2e:279:ALA:O	41:2e:283:LEU:HD23	2.21	0.41
41:2e:358:ARG:HH12	41:2e:362:LEU:HG	1.85	0.41
41:2l:408:LYS:HA	41:2l:408:LYS:HD2	1.98	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:2l:441:ARG:CZ	41:2l:441:ARG:HB2	2.51	0.41
41:2o:175:ILE:HA	41:2o:178:ILE:HD12	2.02	0.41
42:2r:242:ARG:O	42:2r:246:THR:HG23	2.21	0.41
42:2r:327:ARG:HD3	28:4W:116:ALA:O	2.20	0.41
43:2t:284:GLU:O	43:2t:288:LEU:HD23	2.20	0.41
43:2t:285:ASP:O	43:2t:289:LEU:HD23	2.21	0.41
43:2t:309:ALA:O	43:2t:313:MET:HG2	2.20	0.41
45:2z:146:LEU:HD23	45:2z:146:LEU:HA	1.93	0.41
46:3B:282:ARG:NH2	46:3B:408:GLU:OE1	2.54	0.41
46:3B:372:VAL:HG12	46:3B:376:HIS:CD2	2.56	0.41
47:3D:326:LEU:HD22	47:3D:385:ILE:HD11	2.02	0.41
49:3P:396:MET:HG3	49:3P:477:THR:HA	2.02	0.41
49:3P:396:MET:CG	49:3P:477:THR:HA	2.50	0.41
49:3P:411:LEU:HD23	49:3P:411:LEU:HA	1.95	0.41
49:3Q:189:CYS:SG	49:3Q:190:ALA:N	2.94	0.41
49:3Q:328:ARG:HG2	49:3Q:478:ASP:OD2	2.21	0.41
49:3Q:336:VAL:HG13	49:3Q:386:GLN:HE21	1.86	0.41
49:3Q:395:THR:HG22	49:3Q:396:MET:N	2.36	0.41
49:3Q:483:GLU:OE2	49:3Q:488:ARG:HG2	2.21	0.41
49:3Q:518:TYR:H	49:3Q:523:THR:HG23	1.86	0.41
54:3Z:340:VAL:O	54:3Z:341:THR:C	2.64	0.41
57:3g:26:ARG:HG2	57:3g:26:ARG:NH1	2.36	0.41
57:3g:111:MET:HA	57:3g:115:GLU:CD	2.46	0.41
57:3i:32:MET:O	57:3i:36:GLU:OE1	2.38	0.41
57:3i:159:ARG:O	57:3i:163:LEU:HD23	2.20	0.41
60:3s:95:ILE:H	60:3s:95:ILE:HD12	1.85	0.41
60:3s:127:ARG:C	60:3s:129:ASP:H	2.29	0.41
61:3w:281:GLN:HE21	61:3w:286:LYS:NZ	2.18	0.41
63:4I:257:THR:OG1	63:4I:260:TYR:N	2.47	0.41
63:4I:319:GLN:HB2	63:4I:320:PRO:HD3	2.02	0.41
64:5C:96:GLU:O	64:5C:99:LYS:HB2	2.20	0.41
64:5C:107:GLU:HB3	65:5H:97:TYR:CE2	2.56	0.41
65:5G:68:LYS:O	65:5G:72:LEU:N	2.51	0.41
65:5I:100:ALA:O	65:5I:104:LEU:HD23	2.21	0.41
66:5K:12:LYS:HG3	66:5K:13:ASN:H	1.85	0.41
66:5K:29:LEU:HD21	66:5K:219:ILE:HG23	2.02	0.41
66:5K:47:ASP:HB3	66:5K:59:TRP:HE1	1.85	0.41
66:5L:241:ASP:HB3	66:5L:247:TRP:HE1	1.86	0.41
67:5O:91:PHE:HD1	68:5S:94:CYS:HA	1.84	0.41
68:5S:115:LEU:HA	68:5S:118:LYS:HZ3	1.85	0.41
2:AA:156:ARG:HA	2:AA:159:VAL:HG12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:319:TYR:HB3	2:AA:323:VAL:HG21	2.03	0.41
1:AB:239:CYS:SG	1:AB:247:ASN:HA	2.61	0.41
1:AB:308:GLY:HA2	1:AB:426:GLN:NE2	2.36	0.41
1:AD:18:SER:OG	1:AD:76:VAL:HG23	2.21	0.41
1:AD:293:MET:HE1	1:AD:330:MET:HE1	2.03	0.41
1:AD:301:GLN:HG3	1:AD:377:MET:HE1	2.03	0.41
2:AE:274:PRO:HD2	2:AE:374:ALA:HA	2.02	0.41
2:AE:430:LYS:NZ	3:XB:102:ARG:HD3	2.36	0.41
1:AF:359:LYS:HG2	54:3Z:395:GLY:HA3	2.03	0.41
2:AG:122:ILE:HG21	2:AG:157:LEU:HD21	2.02	0.41
2:AI:150:GLY:O	2:AI:154:LEU:HD23	2.21	0.41
1:AL:100:ASN:HB3	1:AL:103:LYS:HB2	2.03	0.41
1:B:293:MET:CE	1:B:365:VAL:HG21	2.51	0.41
2:BA:26:LEU:HD12	2:BA:363:VAL:HG12	2.02	0.41
2:BA:247:ALA:HB3	2:BA:355:ILE:HD11	2.03	0.41
1:BD:66:MET:HE2	1:BD:147:MET:HG2	2.03	0.41
1:BD:208:TYR:CE1	1:BD:225:LEU:HD21	2.56	0.41
2:BI:109:THR:HG21	2:BI:411:GLU:OE1	2.21	0.41
1:BJ:232:VAL:CG1	1:BJ:268:MET:HE2	2.41	0.41
1:BJ:257:LEU:HD23	1:BJ:312:THR:HG22	2.03	0.41
1:BL:3:GLU:HA	1:BL:49:VAL:HA	2.03	0.41
1:BL:46:ARG:HH21	2:BM:72:PRO:HG2	1.87	0.41
1:BN:293:MET:HE3	1:BN:367:PHE:HD1	1.86	0.41
2:C:316:CYS:HG	2:C:378:ILE:HB	1.83	0.41
1:CA:246:LEU:HD22	1:CA:352:SER:HA	2.03	0.41
2:CB:351:PHE:O	1:CC:178:THR:N	2.54	0.41
2:CD:72:PRO:O	2:CD:76:ASP:HB2	2.20	0.41
2:CD:119:LEU:HD23	2:CD:119:LEU:HA	1.93	0.41
1:CE:323:THR:O	1:CE:326:VAL:HG12	2.21	0.41
2:CF:219:ILE:HG13	2:CF:222:PRO:HD3	2.03	0.41
1:CI:9:ALA:HB3	1:CI:137:HIS:HB3	2.03	0.41
1:CK:295:ASP:OD1	1:CK:297:LYS:HG2	2.20	0.41
2:CL:346:TRP:CE3	2:CL:347:CYS:HB2	2.56	0.41
1:CM:178:THR:N	1:CM:181:GLU:OE1	2.53	0.41
1:CM:385:PHE:HZ	1:CM:408:PHE:HD1	1.69	0.41
2:D:265:ILE:HG21	2:D:313:MET:HE1	2.03	0.41
2:DB:326:LYS:HG2	1:DC:212:PHE:CZ	2.56	0.41
2:DD:189:LEU:HD13	2:DD:413:MET:HE1	2.03	0.41
1:DG:96:GLY:O	1:DG:103:LYS:NZ	2.53	0.41
1:DI:101:TRP:CD1	1:DI:146:GLY:HA2	2.56	0.41
2:DJ:237:SER:HA	2:DJ:320:ARG:HD2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DK:141:GLY:HA3	69:DK:500:GDP:O3A	2.20	0.41
1:DK:203:ASP:OD2	1:DK:205:GLU:HB3	2.21	0.41
2:DL:66:LEU:HA	2:DL:91:GLN:HB3	2.02	0.41
1:DM:193:VAL:HG22	1:DM:265:PHE:CE2	2.56	0.41
1:EB:380:ARG:O	1:EB:384:GLN:HG3	2.21	0.41
2:EC:177:VAL:HB	2:EC:207:GLU:HG3	2.03	0.41
2:EE:8:HIS:HB3	2:EE:13:GLY:O	2.21	0.41
2:EE:164:LYS:HB2	2:EE:164:LYS:HE2	1.88	0.41
2:EE:262:TYR:HB2	2:EE:265:ILE:HG12	2.01	0.41
1:EF:173:PRO:CD	1:EF:380:ARG:HH11	2.34	0.41
1:EH:312:THR:HG23	2:EI:181:VAL:HG11	2.03	0.41
2:EK:298:PRO:CG	2:EK:308:ARG:HH12	2.33	0.41
2:FA:8:HIS:HE1	2:FA:21:TRP:NE1	2.19	0.41
2:FC:17:GLY:HA2	2:FC:20:CYS:SG	2.61	0.41
2:FC:98:ASP:OD1	2:FC:98:ASP:N	2.45	0.41
2:FC:160:ASP:O	59:4O:168:PRO:HA	2.21	0.41
1:FD:246:LEU:HB3	1:FD:353:ILE:H	1.86	0.41
1:FD:404:ASP:N	1:FD:404:ASP:OD1	2.53	0.41
2:FE:21:TRP:CZ2	2:FE:65:CYS:HB3	2.56	0.41
2:FE:80:THR:O	2:FE:84:ARG:NH2	2.54	0.41
1:FF:8:GLN:CD	1:FF:17:GLY:HA3	2.45	0.41
1:FF:238:CYS:HA	1:FF:241:ARG:NH2	2.36	0.41
1:FF:336:LYS:HB2	63:4I:269:ARG:HD3	2.03	0.41
2:FG:138:PHE:HZ	2:FG:235:VAL:HG21	1.86	0.41
1:FH:100:ASN:HB3	1:FH:103:LYS:HB2	2.03	0.41
1:FH:228:LEU:HD12	1:FH:228:LEU:H	1.86	0.41
1:FH:268:MET:HB3	1:FH:300:MET:HG3	2.02	0.41
1:FH:359:LYS:HD2	28:4W:138:LEU:O	2.21	0.41
1:FJ:20:PHE:HA	1:FJ:230:ALA:HB1	2.03	0.41
1:FJ:109:GLY:HA2	1:FJ:147:MET:HE1	2.03	0.41
1:FJ:206:ALA:HB2	1:FJ:302:ALA:HB2	2.02	0.41
1:FJ:361:LEU:HD12	1:FJ:361:LEU:HA	1.92	0.41
1:G:272:PRO:HD2	1:G:361:LEU:HD13	2.03	0.41
1:G:344:TRP:CE2	2:GA:401:LYS:HD3	2.56	0.41
2:GC:3:GLU:OE2	2:GC:64:ARG:NH1	2.54	0.41
2:GC:154:LEU:O	2:GC:166:LYS:NZ	2.54	0.41
1:GD:61:PRO:HD3	1:GD:84:LEU:HG	2.03	0.41
1:GD:337:ASN:ND2	59:4O:193:ARG:H	2.18	0.41
1:GF:20:PHE:O	1:GF:24:ILE:HG12	2.20	0.41
1:GF:256:ASN:ND2	1:GF:350:LYS:HD3	2.36	0.41
2:GG:52:PHE:CD2	2:GG:243:ARG:HD3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GH:114:ASP:OD2	65:5H:130:ILE:HG12	2.22	0.41
1:GJ:238:CYS:SG	1:GJ:239:CYS:N	2.94	0.41
2:GK:3:GLU:HA	2:GK:51:THR:HA	2.03	0.41
2:HE:116:ASP:OD1	2:HE:116:ASP:N	2.48	0.41
1:HF:192:LEU:O	1:HF:196:SER:HB3	2.21	0.41
1:HH:27:GLU:OE1	1:HH:241:ARG:NH2	2.44	0.41
2:HI:79:ARG:HH22	2:HI:94:SER:HB2	1.85	0.41
2:HK:273:ALA:HB3	2:HK:295:VAL:CG2	2.51	0.41
2:HM:96:LYS:HA	2:HM:96:LYS:HD2	1.82	0.41
1:I:113:ILE:HG12	1:I:117:LEU:HD23	2.03	0.41
1:I:186:THR:HG21	1:I:385:PHE:HB2	2.02	0.41
1:I:317:PHE:HB3	1:I:321:MET:HE2	2.03	0.41
2:IA:53:PHE:HB3	2:IA:61:HIS:HB3	2.02	0.41
2:IC:216:SER:HB2	2:IC:275:VAL:O	2.21	0.41
1:IF:22:GLU:HG2	1:IF:81:TYR:HB2	2.02	0.41
2:II:70:LEU:HD22	2:II:99:ALA:HB2	2.03	0.41
2:II:268:VAL:HG23	2:II:378:ILE:HD11	2.03	0.41
1:IJ:332:ASN:O	1:IJ:336:LYS:HE2	2.21	0.41
1:IL:110:ALA:O	1:IL:113:ILE:HG22	2.20	0.41
2:IM:142:GLY:CA	2:IM:183:GLU:HG3	2.51	0.41
2:J:8:HIS:O	2:J:68:LEU:HG	2.20	0.41
2:J:9:ILE:HD13	2:J:150:GLY:HA2	2.02	0.41
1:JA:248:SER:HB2	1:JA:252:LYS:HG2	2.03	0.41
1:JC:323:THR:HA	1:JC:326:VAL:HG12	2.02	0.41
2:JD:333:ALA:O	2:JD:337:THR:HG23	2.21	0.41
1:JE:320:ARG:NH2	19:0r:169:VAL:HG11	2.36	0.41
2:JH:312:TYR:CD1	2:JH:381:SER:HB2	2.56	0.41
2:JH:428:LEU:O	2:JH:432:TYR:HD2	2.04	0.41
1:JI:9:ALA:HB3	1:JI:137:HIS:HB3	2.03	0.41
1:JK:36:TYR:HB2	1:JK:59:TYR:CE2	2.52	0.41
2:JL:127:ASP:OD1	2:JL:128:ASN:N	2.54	0.41
2:JN:304:LYS:HD2	2:JN:304:LYS:O	2.21	0.41
1:KE:19:LYS:HE2	1:KE:19:LYS:HB2	1.87	0.41
1:KE:50:TYR:CD1	1:KE:241:ARG:HD3	2.56	0.41
1:KG:67:ASP:OD1	1:KG:143:THR:HG21	2.21	0.41
1:KG:207:LEU:HD13	1:KG:225:LEU:HB3	2.03	0.41
2:KH:85:GLN:HA	35:2N:261:HIS:NE2	2.36	0.41
2:KH:401:LYS:HE3	2:KH:401:LYS:HB3	1.96	0.41
1:KI:151:LEU:O	1:KI:155:LEU:HD13	2.20	0.41
2:KJ:388:PHE:CD2	2:KJ:432:TYR:HE2	2.39	0.41
1:KK:345:ILE:HA	2:KL:398:MET:CE	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KL:115:VAL:O	2:KL:119:LEU:HD23	2.21	0.41
1:KM:164:MET:H	1:KM:197:ASP:HB2	1.85	0.41
1:KM:232:VAL:O	1:KM:236:VAL:HG23	2.21	0.41
1:KM:304:ASP:OD1	1:KM:306:ARG:NH2	2.54	0.41
2:KN:139:HIS:O	2:KN:170:THR:HA	2.21	0.41
2:KN:295:VAL:HG12	2:KN:377:MET:HE3	2.03	0.41
2:LB:247:ALA:HB1	1:LC:222:PHE:CD2	2.55	0.41
1:LC:117:LEU:HB3	1:LC:121:ARG:NH2	2.36	0.41
1:LC:156:ARG:HH22	1:LC:197:ASP:CG	2.29	0.41
2:LD:172:TYR:OH	2:LD:194:LEU:HD23	2.21	0.41
1:LE:22:GLU:HG2	1:LE:81:TYR:CD1	2.56	0.41
1:LE:172:SER:HB2	1:LE:203:ASP:OD1	2.21	0.41
2:LF:50:ASN:C	2:LF:50:ASN:HD22	2.29	0.41
1:LG:163:ILE:HD11	1:LG:251:ARG:NE	2.36	0.41
2:LJ:116:ASP:CG	33:2H:183:TYR:HD2	2.29	0.41
2:LJ:180:ALA:HB3	2:LJ:183:GLU:HB2	2.02	0.41
2:LJ:236:SER:HA	2:LJ:239:THR:HG22	2.04	0.41
2:LJ:419:SER:O	2:LJ:423:GLU:OE1	2.38	0.41
1:LK:29:GLY:HA3	1:LK:38:GLY:CA	2.51	0.41
1:LK:384:GLN:O	1:LK:388:MET:HG3	2.20	0.41
2:LL:393:HIS:HD2	31:1s:49:CYS:SG	2.43	0.41
1:LM:44:LEU:HD11	1:LM:59:TYR:OH	2.21	0.41
1:LM:391:ARG:HA	1:LM:391:ARG:HD2	1.77	0.41
2:LN:21:TRP:CZ2	2:LN:65:CYS:HB3	2.56	0.41
2:LN:248:LEU:HG	1:LO:222:PHE:CE2	2.56	0.41
1:LO:21:TRP:CZ2	1:LO:63:ALA:HB2	2.56	0.41
1:MB:208:TYR:HE1	1:MB:225:LEU:HD13	1.86	0.41
1:MB:249:ASP:O	1:MB:253:LEU:HD23	2.19	0.41
1:MB:274:THR:HG21	1:MB:282:ARG:HG3	2.03	0.41
2:MC:183:GLU:HA	2:MC:186:ASN:HD22	1.85	0.41
1:MD:304:ASP:OD2	32:2B:241:ALA:N	2.50	0.41
2:ME:260:VAL:HB	1:MF:397:TRP:HZ2	1.85	0.41
1:MF:8:GLN:HG3	1:MF:14:ASN:HA	2.02	0.41
1:MF:309:ARG:HE	1:MF:342:ILE:HG22	1.86	0.41
1:MF:372:THR:O	1:MF:375:GLN:HG2	2.20	0.41
2:MG:159:VAL:HG21	33:2G:33:TYR:CZ	2.56	0.41
2:MG:311:LYS:HE3	2:MG:344:VAL:HA	2.02	0.41
1:MH:68:LEU:HB3	1:MH:95:SER:O	2.21	0.41
1:MH:235:GLY:HA3	1:MH:366:THR:HG21	2.03	0.41
1:MJ:31:ASP:OD2	1:MJ:35:THR:N	2.52	0.41
1:MJ:164:MET:HE2	1:MJ:164:MET:HB2	1.96	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MJ:259:PRO:O	2:MK:406:HIS:HE1	2.04	0.41
2:MK:40:LYS:HA	2:MK:40:LYS:HD2	1.87	0.41
2:MK:330:ALA:O	2:MK:334:THR:HG23	2.21	0.41
2:MK:387:VAL:HA	2:MK:390:ARG:HG2	2.01	0.41
1:ML:257:LEU:HD11	1:ML:314:SER:HB2	2.03	0.41
1:N:9:ALA:HB2	1:N:66:MET:HE3	2.02	0.41
1:N:327:ASP:HB3	2:NA:177:VAL:HG13	2.02	0.41
2:NC:104:ALA:HB2	2:NC:413:MET:HG3	2.03	0.41
2:NE:90:GLU:HB2	2:NE:121:ARG:HH21	1.86	0.41
2:NE:164:LYS:O	2:NE:166:LYS:NZ	2.54	0.41
2:NE:172:TYR:HH	2:NE:267:PHE:HE2	1.68	0.41
2:NE:373:ARG:HG2	2:NE:373:ARG:NH1	2.35	0.41
1:NF:35:THR:HG23	1:NF:37:GLN:OE1	2.20	0.41
2:NI:25:CYS:SG	2:NI:86:LEU:HD21	2.60	0.41
2:NI:318:MET:O	2:NI:375:VAL:HA	2.21	0.41
1:NJ:118:ASP:HA	1:NJ:121:ARG:NH1	2.35	0.41
2:NK:30:ILE:HD11	2:NK:53:PHE:CZ	2.56	0.41
2:NK:213:THR:O	2:NK:217:LEU:HB2	2.21	0.41
2:NM:11:GLN:HG3	2:NM:74:VAL:HG11	2.02	0.41
1:O:116:VAL:HG21	1:O:147:MET:HE1	2.03	0.41
1:O:244:GLY:HA2	1:O:355:ASP:HB2	2.03	0.41
2:OA:96:LYS:HD2	2:OA:96:LYS:HA	1.96	0.41
2:OA:234:VAL:HG13	2:OA:376:CYS:SG	2.61	0.41
2:OA:311:LYS:HG3	2:OA:342:GLN:NE2	2.36	0.41
1:OB:10:GLY:HA2	1:OB:143:THR:HG23	2.03	0.41
1:OD:209:ASP:O	1:OD:213:ARG:NH1	2.54	0.41
2:OE:168:GLY:O	2:OE:170:THR:HG23	2.21	0.41
2:OG:194:LEU:O	2:OG:198:THR:HB	2.21	0.41
2:OG:258:ASN:ND2	2:OG:352:LYS:HZ2	2.19	0.41
2:OG:288:VAL:O	2:OG:291:ILE:HG22	2.20	0.41
1:OH:332:ASN:O	1:OH:336:LYS:HG2	2.21	0.41
2:OI:48:ALA:HB1	2:OI:243:ARG:O	2.21	0.41
1:OJ:167:PHE:CE2	1:OJ:233:MET:HG2	2.56	0.41
1:OJ:182:PRO:HG2	1:OJ:388:MET:SD	2.60	0.41
1:OL:331:LEU:CD2	2:OM:176:GLN:HB3	2.51	0.41
1:OL:375:GLN:HB3	1:OL:422:TYR:HD2	1.85	0.41
2:OM:214:ARG:HH12	2:OM:220:GLU:HA	1.86	0.41
2:OM:312:TYR:HA	2:OM:381:SER:HB2	2.03	0.41
1:P:51:PHE:HE1	1:P:61:PRO:HG3	1.85	0.41
1:P:251:ARG:O	1:P:255:VAL:HG12	2.21	0.41
1:PB:94:GLN:OE1	1:PB:94:GLN:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PB:167:PHE:CZ	1:PB:233:MET:HG2	2.55	0.41
1:PD:101:TRP:HB3	1:PD:398:TYR:HE2	1.86	0.41
2:PE:54:SER:HB3	2:PE:64:ARG:HH21	1.86	0.41
2:PE:185:TYR:CZ	2:PE:398:MET:HB3	2.56	0.41
2:PG:392:ASP:OD1	2:PG:393:HIS:N	2.54	0.41
2:PI:90:GLU:C	2:PI:92:LEU:N	2.79	0.41
2:PI:377:MET:HE2	2:PI:377:MET:HB3	1.96	0.41
2:PK:185:TYR:HE2	2:PK:404:PHE:HB2	1.85	0.41
1:PL:221:THR:HG22	1:PL:222:PHE:N	2.36	0.41
1:PL:294:PHE:CE2	1:PL:333:VAL:HG11	2.56	0.41
2:PM:234:VAL:HG21	2:PM:302:LEU:HD22	2.04	0.41
2:Q:98:ASP:OD1	2:Q:98:ASP:N	2.51	0.41
2:Q:203:MET:HB2	2:Q:303:THR:HG21	2.03	0.41
2:Q:205:ASP:OD1	2:Q:303:THR:HA	2.20	0.41
2:Q:244:PHE:O	2:Q:356:ASN:ND2	2.54	0.41
1:QA:327:ASP:HB2	2:QB:177:VAL:HG21	2.03	0.41
1:QC:217:LEU:HD13	1:QC:220:PRO:HB3	2.03	0.41
1:QC:311:LEU:HB2	1:QC:370:ASN:O	2.21	0.41
2:QD:140:ALA:HB2	2:QD:171:VAL:HB	2.03	0.41
2:QD:201:ALA:O	2:QD:268:VAL:HG22	2.21	0.41
1:QE:249:ASP:H	1:QE:252:LYS:HB3	1.86	0.41
2:QF:121:ARG:HH11	2:QF:124:LYS:HZ1	1.68	0.41
1:QG:226:ASN:HA	1:QG:229:VAL:HG12	2.03	0.41
1:QG:309:ARG:NH2	1:QG:343:GLU:OE1	2.51	0.41
2:QH:26:LEU:HD23	2:QH:26:LEU:HA	1.95	0.41
2:QH:264:ARG:NH1	2:QH:431:ASP:OD2	2.49	0.41
1:QI:58:ARG:HE	1:QI:58:ARG:HB3	1.55	0.41
1:QI:135:LEU:HD23	1:QI:152:ILE:HD11	2.03	0.41
1:QK:226:ASN:C	69:QK:500:GDP:H3'	2.46	0.41
2:RB:167:LEU:HD21	2:RB:255:PHE:CZ	2.52	0.41
2:RB:258:ASN:ND2	2:RB:352:LYS:HD2	2.36	0.41
1:RC:316:LEU:HB2	1:RC:366:THR:OG1	2.20	0.41
1:RC:334:GLN:HE22	1:RC:348:ASN:N	2.19	0.41
2:RD:364:PRO:HG2	28:1X:229:PRO:HD2	2.03	0.41
1:RI:115:SER:O	1:RI:119:VAL:HG23	2.21	0.41
1:RI:268:MET:HE2	1:RI:300:MET:SD	2.60	0.41
2:RJ:36:MET:HE2	2:RJ:36:MET:HB2	1.96	0.41
2:RL:252:LEU:HA	2:RL:255:PHE:CZ	2.55	0.41
2:RL:252:LEU:HD13	2:RL:255:PHE:HZ	1.85	0.41
2:RL:317:LEU:HG	2:RL:332:ILE:HD11	2.02	0.41
1:S:199:SER:O	1:S:265:PHE:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SA:9:ILE:HB	2:SA:139:HIS:HB3	2.03	0.41
2:SA:434:GLU:HG3	56:3d:208:PHE:HD1	1.85	0.41
2:SC:240:ALA:HB1	2:SC:356:ASN:HD22	1.87	0.41
1:SF:260:PHE:HB2	1:SF:263:LEU:HD13	2.02	0.41
1:SF:322:SER:HB2	2:SG:222:PRO:O	2.21	0.41
2:SG:339:ARG:O	2:SG:339:ARG:HG2	2.21	0.41
2:SI:270:THR:CG2	2:SI:302:LEU:HD23	2.51	0.41
2:SI:288:VAL:HA	2:SI:291:ILE:HG12	2.03	0.41
1:SJ:406:MET:O	1:SJ:410:GLU:HG3	2.21	0.41
2:SK:30:ILE:HD11	2:SK:34:GLY:C	2.46	0.41
2:SK:277:SER:O	2:SK:281:ALA:HB2	2.20	0.41
1:T:164:MET:HE3	1:T:164:MET:HB3	1.93	0.41
1:TB:113:ILE:HG12	1:TB:154:LYS:NZ	2.35	0.41
2:TC:188:VAL:HG11	2:TC:395:PHE:CD1	2.56	0.41
1:TD:65:LEU:HD13	1:TD:90:PHE:HE1	1.86	0.41
2:TE:231:ILE:O	2:TE:235:VAL:HG23	2.21	0.41
2:TE:406:HIS:HA	2:TE:409:VAL:HG22	2.03	0.41
2:TG:181:VAL:HG23	2:TG:182:VAL:HG13	2.03	0.41
2:TG:250:VAL:HG21	2:TG:318:MET:HE1	2.03	0.41
1:TH:100:ASN:HB3	1:TH:103:LYS:HB3	2.02	0.41
1:TH:230:ALA:HA	1:TH:233:MET:HE3	2.02	0.41
1:TH:415:MET:HB3	1:TH:415:MET:HE3	1.84	0.41
1:TJ:322:SER:OG	2:TK:221:ARG:HB3	2.20	0.41
1:TJ:380:ARG:O	1:TJ:384:GLN:HG3	2.21	0.41
2:TK:2:ARG:HD2	2:TK:242:LEU:HB2	2.03	0.41
2:TK:311:LYS:HB2	2:TK:311:LYS:HE2	1.81	0.41
1:TL:124:ALA:HA	1:TL:130:LEU:HD21	2.02	0.41
1:TL:182:PRO:HG2	1:TL:388:MET:HG3	2.03	0.41
1:TL:305:PRO:HG2	1:TL:306:ARG:NH1	2.35	0.41
1:U:105:HIS:CE1	1:U:150:LEU:HD13	2.56	0.41
2:UA:28:HIS:CE1	2:UA:243:ARG:HD2	2.55	0.41
2:UA:141:VAL:HG13	2:UA:170:THR:CG2	2.51	0.41
1:UB:97:ALA:O	1:UB:103:LYS:HD2	2.21	0.41
2:UE:166:LYS:O	2:UE:199:ASP:HB2	2.21	0.41
2:UE:318:MET:HE3	2:UE:318:MET:HB3	1.98	0.41
2:UG:233:GLN:HE22	2:UG:360:PRO:HB3	1.86	0.41
1:UH:73:MET:HE3	1:UH:73:MET:HB3	1.88	0.41
2:UI:271:SER:OG	2:UI:377:MET:HB3	2.21	0.41
2:UI:370:LYS:HD3	8:0J:360:ALA:CB	2.50	0.41
2:UK:207:GLU:OE1	2:UK:207:GLU:N	2.42	0.41
2:UK:259:LEU:HG	2:UK:268:VAL:HG11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:UK:275:VAL:O	2:UK:275:VAL:HG13	2.21	0.41
1:UL:74:ASP:HA	1:UL:77:ARG:HG2	2.03	0.41
1:UL:372:THR:O	1:UL:375:GLN:HG2	2.21	0.41
2:VA:206:ASN:OD1	71:VA:501:GTP:O2'	2.22	0.41
2:VG:291:ILE:O	2:VG:295:VAL:HG23	2.21	0.41
2:VI:153:LEU:O	2:VI:157:LEU:HD23	2.21	0.41
1:VJ:58:ARG:NH2	1:VJ:83:GLN:O	2.54	0.41
2:VK:89:PRO:HG3	2:WK:279:GLU:HG3	2.03	0.41
2:VK:313:MET:N	2:VK:380:ASN:O	2.47	0.41
1:VL:375:GLN:O	1:VL:379:ARG:HG3	2.21	0.41
2:VM:27:GLU:HA	2:VM:361:THR:HG21	2.03	0.41
2:VM:117:LEU:CD2	2:VM:121:ARG:HE	2.34	0.41
2:VM:230:LEU:HA	2:VM:230:LEU:HD23	1.80	0.41
2:VM:259:LEU:HD21	2:VM:268:VAL:HG11	2.03	0.41
1:WB:191:GLN:O	1:WB:195:ASN:HB2	2.21	0.41
2:WC:9:ILE:HG22	2:WC:146:GLY:HA2	2.02	0.41
2:WC:26:LEU:HD13	2:WC:364:PRO:HD2	2.03	0.41
2:WC:311:LYS:HG2	2:WC:342:GLN:HG3	2.02	0.41
1:WD:187:LEU:HD11	1:WD:408:PHE:CE2	2.56	0.41
2:WE:331:ALA:HA	2:WE:334:THR:HG22	2.03	0.41
2:WG:220:GLU:HB2	2:WG:221:ARG:NH1	2.35	0.41
1:WH:14:ASN:O	1:WH:18:SER:OG	2.34	0.41
2:WK:295:VAL:HG21	2:WK:375:VAL:HG13	2.03	0.41
1:WL:305:PRO:HA	1:WL:373:CYS:SG	2.61	0.41
3:XC:102:ARG:NE	3:XC:118:ILE:HD12	2.35	0.41
3:XD:51:GLY:HA3	3:XD:57:CYS:SG	2.60	0.41
3:XD:89:PHE:CE2	3:XD:105:ALA:HB3	2.56	0.41
3:XF:81:LYS:HB3	3:XF:161:ARG:HB2	2.02	0.41
5:XN:141:LEU:HB3	5:XN:143:LEU:CD2	2.51	0.41
4:XO:86:LYS:HE3	33:2G:54:THR:OG1	2.20	0.41
4:XO:227:VAL:HG23	4:XO:283:LEU:HD21	2.03	0.41
4:XO:236:LEU:HA	4:XO:236:LEU:HD23	1.82	0.41
5:XP:225:ARG:NH1	5:XP:225:ARG:HB2	2.36	0.41
4:XR:264:ASP:OD2	4:XR:267:GLN:HB3	2.21	0.41
7:0C:271:ARG:NE	7:0C:271:ARG:HA	2.36	0.41
8:0F:91:ARG:HD3	8:0F:91:ARG:HA	1.88	0.41
8:0I:230:LEU:O	8:0I:234:GLU:HG2	2.21	0.41
9:0L:216:CYS:SG	9:0L:224:ILE:HB	2.61	0.41
9:0L:451:ILE:HG12	9:0L:456:CYS:SG	2.61	0.41
9:0M:102:HIS:HD2	9:0M:142:GLY:CA	2.34	0.41
9:0M:408:HIS:HD2	9:0M:425:VAL:HG22	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:0M:543:ARG:HG2	9:0M:545:VAL:HG13	2.03	0.41
9:0O:131:ASP:OD1	9:0O:131:ASP:C	2.63	0.41
9:0O:202:VAL:HG13	9:0O:216:CYS:HB3	2.03	0.41
9:0O:214:ILE:HG23	9:0O:228:LEU:CD2	2.51	0.41
11:0U:274:GLU:OE1	46:3B:36:LYS:NZ	2.54	0.41
12:0W:112:LEU:HD23	12:0W:112:LEU:HA	1.95	0.41
12:0W:132:GLN:HA	12:0W:132:GLN:OE1	2.20	0.41
14:0c:235:ARG:NH1	14:0c:237:SER:OG	2.49	0.41
15:0f:76:PRO:HD2	15:0f:79:LEU:HD22	2.03	0.41
16:0l:793:GLU:H	16:0l:793:GLU:HG3	1.68	0.41
16:0k:291:LYS:HE3	16:0k:291:LYS:HB3	1.77	0.41
16:0k:587:LEU:HD23	16:0k:605:LEU:HD11	2.03	0.41
17:0n:341:ALA:O	17:0n:345:LEU:HD23	2.21	0.41
17:0n:408:LEU:O	17:0n:412:LEU:CB	2.69	0.41
19:0r:18:THR:HG23	19:0r:75:ASN:HA	2.02	0.41
19:0r:190:SER:O	19:0r:194:MET:HG2	2.21	0.41
19:0r:288:MET:HE2	19:0r:288:MET:HB2	1.93	0.41
20:0t:252:LYS:CB	20:0t:253:ARG:HD3	2.51	0.41
21:0w:374:SER:HA	21:0w:377:ARG:NE	2.36	0.41
24:1H:279:PHE:HB2	24:1H:284:SER:OG	2.22	0.41
24:1H:427:PHE:HB3	24:1H:505:ILE:HG23	2.03	0.41
24:1H:479:ARG:NH2	24:1H:485:PHE:HA	2.36	0.41
24:1I:251:ASP:OD2	24:1I:252:ARG:HG3	2.21	0.41
24:1I:567:LEU:HD21	24:1I:579:GLU:HG3	2.03	0.41
24:1J:641:GLU:H	24:1J:641:GLU:CD	2.29	0.41
24:1J:695:LYS:HB3	24:1J:712:MET:HE1	2.03	0.41
24:1K:457:PHE:HA	24:1K:470:LYS:HA	2.02	0.41
25:1O:14:PHE:HB3	25:1O:32:HIS:HB2	2.02	0.41
25:1O:289:ASP:O	25:1O:295:GLY:HA3	2.21	0.41
27:1S:7:LEU:O	27:1S:11:MET:HG2	2.21	0.41
29:1j:26:TYR:O	44:2v:401:THR:HG21	2.20	0.41
31:1r:224:ILE:HD13	31:1r:248:LEU:HD11	2.01	0.41
33:2G:164:LYS:HB2	33:2G:164:LYS:HE2	1.87	0.41
33:2I:138:ARG:CZ	33:2I:138:ARG:HB2	2.51	0.41
33:2I:173:GLN:HA	33:2I:180:PRO:HG3	2.03	0.41
35:2O:38:THR:HG21	39:2X:142:GLY:HA2	2.03	0.41
36:2Q:17:MET:HE2	36:2Q:25:VAL:CG1	2.51	0.41
41:2k:277:MET:HE3	41:2k:277:MET:HA	2.02	0.41
41:2o:413:GLN:HA	41:2o:416:GLU:OE2	2.20	0.41
44:2w:60:ILE:HA	44:2w:66:CYS:HA	2.02	0.41
46:3B:50:ILE:HG23	46:3B:113:MET:CE	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:3Q:34:ASN:ND2	52:3U:218:VAL:HB	2.36	0.41
49:3Q:110:LEU:HD23	49:3Q:110:LEU:HA	1.96	0.41
49:3Q:127:LEU:HD12	49:3Q:165:TYR:HE1	1.86	0.41
49:3Q:356:ILE:HG22	49:3Q:361:VAL:HG13	2.03	0.41
49:3Q:435:ILE:HB	49:3Q:438:VAL:HG22	2.03	0.41
53:3W:190:LYS:HB2	53:3W:193:VAL:HB	2.03	0.41
57:3i:140:GLY:O	57:3i:144:LEU:HG	2.21	0.41
60:3r:134:ASP:OD1	60:3r:137:ARG:NH2	2.54	0.41
60:3s:18:ARG:O	60:3s:22:LYS:HG2	2.21	0.41
60:3s:63:ARG:HA	60:3s:66:GLN:HG2	2.03	0.41
61:3x:32:ARG:NH1	61:3x:32:ARG:HB2	2.36	0.41
62:4B:212:ASN:ND2	62:4B:215:LYS:HB2	2.36	0.41
67:5O:6:VAL:HA	67:5O:81:PRO:HD3	2.03	0.41
1:A:409:THR:HA	1:A:412:GLU:HG2	2.02	0.40
1:AF:200:MET:HG2	1:AF:266:PHE:HD2	1.85	0.40
1:AF:229:VAL:O	1:AF:233:MET:HG3	2.21	0.40
1:AH:21:TRP:CD2	1:AH:61:PRO:HB3	2.55	0.40
2:AI:142:GLY:CA	2:AI:183:GLU:HG3	2.51	0.40
2:AI:213:THR:O	2:AI:217:LEU:HB2	2.21	0.40
2:AI:269:LEU:O	2:AI:378:ILE:HD12	2.21	0.40
1:AJ:21:TRP:CD1	1:AJ:85:PHE:HE1	2.39	0.40
2:AK:264:ARG:HD3	3:XE:115:LYS:CE	2.31	0.40
1:AL:344:TRP:CD2	2:AM:401:LYS:HD2	2.56	0.40
2:AM:31:GLN:OE1	2:AM:37:PRO:HD3	2.20	0.40
2:AM:215:ARG:HH21	2:AM:299:ALA:HA	1.85	0.40
1:AN:350:LYS:HD3	1:AN:350:LYS:HA	1.71	0.40
1:B:44:LEU:HD13	16:0k:922:ARG:HB2	2.02	0.40
2:BA:362:VAL:HG11	2:BA:370:LYS:HA	2.03	0.40
2:BA:388:PHE:HD2	2:BA:432:TYR:HE2	1.69	0.40
1:BB:19:LYS:HD3	1:BB:22:GLU:OE1	2.22	0.40
1:BB:384:GLN:O	1:BB:388:MET:HG3	2.21	0.40
1:BB:392:LYS:HD3	1:BB:395:LEU:HD23	2.04	0.40
2:BC:136:MET:HE3	2:BC:136:MET:HB2	1.88	0.40
2:BC:237:SER:HA	2:BC:320:ARG:HD2	2.03	0.40
2:BE:11:GLN:N	71:BE:501:GTP:O2B	2.41	0.40
2:BE:195:LEU:HD21	2:BE:264:ARG:NH1	2.36	0.40
2:BE:373:ARG:HG2	2:BE:373:ARG:NH1	2.35	0.40
1:BF:101:TRP:NE1	1:BF:188:SER:OG	2.54	0.40
1:BH:35:THR:OG1	1:BH:36:TYR:N	2.53	0.40
1:BH:350:LYS:NZ	2:BI:181:VAL:H	2.19	0.40
1:BH:397:TRP:CD1	1:BH:397:TRP:H	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BI:346:TRP:CD1	1:BJ:391:ARG:HG3	2.55	0.40
2:BI:390:ARG:NH1	2:BI:394:LYS:HG2	2.36	0.40
2:BK:156:ARG:HA	2:BK:159:VAL:HG12	2.02	0.40
1:BL:311:LEU:HD23	1:BL:342:ILE:CD1	2.51	0.40
2:BM:108:TYR:O	2:BM:112:LYS:NZ	2.37	0.40
2:C:141:VAL:HG23	2:C:173:PRO:HD3	2.03	0.40
2:CB:306:ASP:OD2	2:CB:308:ARG:HB2	2.21	0.40
2:CD:271:SER:HA	2:CD:302:LEU:HD13	2.02	0.40
1:CE:190:HIS:CE1	1:CE:191:GLN:HG2	2.55	0.40
2:CF:121:ARG:HA	2:CF:121:ARG:HD3	1.89	0.40
2:CH:391:ILE:HD13	2:CH:391:ILE:HA	1.90	0.40
2:CJ:246:GLY:H	2:CJ:249:ASN:HD21	1.69	0.40
2:CJ:409:VAL:HA	2:CJ:413:MET:O	2.22	0.40
2:D:238:LEU:HD11	2:D:378:ILE:HG13	2.03	0.40
2:DB:237:SER:HA	2:DB:320:ARG:HH11	1.86	0.40
1:DC:198:GLU:HB2	1:DC:266:PHE:CE1	2.56	0.40
2:DD:261:PRO:HA	1:DE:394:PHE:CD1	2.56	0.40
1:DE:134:GLN:HG3	1:DE:165:MET:HE3	2.03	0.40
1:DE:399:THR:HA	1:DE:403:MET:O	2.21	0.40
1:DG:242:PHE:HB2	1:DG:354:CYS:SG	2.61	0.40
2:DH:28:HIS:CE1	2:DH:243:ARG:HE	2.39	0.40
2:DH:301:MET:CE	2:DH:307:PRO:HG3	2.51	0.40
2:DH:388:PHE:HA	2:DH:391:ILE:HG22	2.03	0.40
1:DI:371:ASN:OD1	1:DI:372:THR:N	2.55	0.40
2:DJ:206:ASN:OD1	71:DJ:501:GTP:N2	2.53	0.40
1:DK:181:GLU:HB2	1:DK:182:PRO:HD3	2.04	0.40
1:E:36:TYR:CE1	1:E:44:LEU:HG	2.56	0.40
2:EA:234:VAL:HG11	2:EA:270:THR:HG21	2.03	0.40
2:EG:3:GLU:HG2	2:EG:64:ARG:CZ	2.51	0.40
1:EH:65:LEU:HD22	1:EH:90:PHE:CE2	2.56	0.40
1:EH:143:THR:O	1:EH:147:MET:HB3	2.21	0.40
1:EH:183:TYR:OH	1:EH:393:ALA:O	2.29	0.40
1:EH:324:LYS:NZ	2:EI:221:ARG:HA	2.37	0.40
2:EI:88:ASN:OD1	2:EI:89:PRO:HD2	2.21	0.40
2:EI:288:VAL:HG21	2:EI:323:VAL:HG23	2.03	0.40
2:EK:271:SER:HB3	2:EK:301:MET:HA	2.02	0.40
1:EL:191:GLN:O	1:EL:195:ASN:HB2	2.20	0.40
1:EL:324:LYS:HD3	1:EL:324:LYS:HA	1.95	0.40
1:F:246:LEU:HD12	1:F:246:LEU:HA	1.88	0.40
1:FB:9:ALA:HA	1:FB:66:MET:O	2.21	0.40
1:FB:212:PHE:O	1:FB:216:LYS:HD2	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FB:246:LEU:HD22	1:FB:352:SER:HA	2.01	0.40
2:FC:209:ILE:HD11	2:FC:231:ILE:HD11	2.03	0.40
2:FE:112:LYS:HD3	2:FE:152:LEU:HD21	2.03	0.40
2:FG:304:LYS:HD2	2:FG:304:LYS:HA	1.71	0.40
2:FI:190:SER:HB2	2:FI:194:LEU:HD13	2.02	0.40
1:FJ:290:THR:HG21	1:FJ:329:GLN:HB3	2.03	0.40
1:FL:423:GLN:OE1	1:FL:423:GLN:HA	2.21	0.40
2:GA:103:TYR:CE2	2:GA:148:GLY:HA2	2.56	0.40
2:GA:235:VAL:O	2:GA:239:THR:HG22	2.20	0.40
1:GB:274:THR:HG23	1:GB:282:ARG:NH2	2.35	0.40
2:GC:8:HIS:NE2	2:GC:65:CYS:HB2	2.37	0.40
2:GC:291:ILE:O	2:GC:295:VAL:HG23	2.20	0.40
1:GD:2:ARG:HH21	2:GE:96:LYS:HD3	1.86	0.40
1:GD:24:ILE:HG21	1:GD:50:TYR:HD2	1.85	0.40
1:GD:76:VAL:HG12	1:GD:77:ARG:HH22	1.86	0.40
1:GD:190:HIS:HB2	1:GD:414:ASN:HD22	1.86	0.40
1:GD:237:THR:HG22	1:GD:250:LEU:HD11	2.03	0.40
2:GE:352:LYS:HD3	1:GF:178:THR:HA	2.03	0.40
1:GF:150:LEU:O	1:GF:154:LYS:HG2	2.21	0.40
1:GF:268:MET:SD	1:GF:368:ILE:HD13	2.61	0.40
2:GG:145:THR:HG22	71:GG:501:GTP:O3B	2.21	0.40
1:GH:221:THR:HG23	1:GH:223:GLY:H	1.86	0.40
1:GH:371:ASN:ND2	1:GH:373:CYS:SG	2.94	0.40
1:GH:378:PHE:CD1	1:GH:415:MET:HE3	2.56	0.40
2:GI:72:PRO:HA	2:GI:75:VAL:HG22	2.03	0.40
1:GJ:3:GLU:OE2	1:GJ:128:ASP:N	2.54	0.40
1:GJ:113:ILE:HG12	1:GJ:150:LEU:CD2	2.51	0.40
1:GJ:217:LEU:HD23	1:GJ:220:PRO:HB3	2.03	0.40
1:GJ:380:ARG:O	1:GJ:384:GLN:HG2	2.21	0.40
2:GK:152:LEU:HA	2:GK:155:GLU:OE1	2.21	0.40
1:H:16:ILE:HD11	1:H:229:VAL:HG13	2.02	0.40
1:H:251:ARG:HD2	2:HA:105:ARG:NH2	2.36	0.40
2:HA:9:ILE:HD13	2:HA:68:LEU:HB2	2.03	0.40
2:HA:319:TYR:CD1	2:HA:375:VAL:HG22	2.57	0.40
1:HB:206:ALA:HB3	1:HB:300:MET:C	2.46	0.40
2:HE:119:LEU:HD21	2:HE:156:ARG:HB3	2.03	0.40
1:HF:304:ASP:HB3	1:HF:307:HIS:ND1	2.37	0.40
1:HH:256:ASN:ND2	1:HH:350:LYS:HG3	2.35	0.40
1:HJ:203:ASP:CB	1:HJ:302:ALA:H	2.33	0.40
1:HL:19:LYS:HA	1:HL:22:GLU:HG3	2.03	0.40
1:I:360:GLY:HA2	38:2U:87:HIS:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IA:326:LYS:HZ3	1:IB:220:PRO:HD2	1.86	0.40
2:IA:376:CYS:SG	2:IA:377:MET:N	2.94	0.40
1:IB:8:GLN:HG2	1:IB:17:GLY:HA3	2.03	0.40
1:IB:86:ARG:HD2	1:IB:88:ASP:OD1	2.21	0.40
1:ID:344:TRP:CE3	2:IE:401:LYS:HD2	2.56	0.40
2:IE:326:LYS:HZ3	1:IF:220:PRO:HD2	1.86	0.40
1:IF:347:ASN:ND2	2:IG:178:SER:HB2	2.35	0.40
1:IF:403:MET:HE2	1:IF:403:MET:HB2	1.88	0.40
2:IG:121:ARG:HD3	2:IG:124:LYS:HE2	2.03	0.40
2:IG:439:SER:HB3	1:IH:391:ARG:HH11	1.86	0.40
1:IH:121:ARG:O	1:IH:125:GLU:OE1	2.39	0.40
1:IH:295:ASP:OD1	1:IH:296:ALA:N	2.54	0.40
2:II:88:ASN:HB3	2:II:91:GLN:HG2	2.02	0.40
2:II:275:VAL:O	2:II:275:VAL:HG13	2.21	0.40
2:IK:213:THR:HG21	2:IK:222:PRO:HB3	2.03	0.40
2:IK:227:VAL:O	2:IK:231:ILE:HG12	2.21	0.40
1:IL:227:HIS:CE1	7:0D:271:ARG:HA	2.56	0.40
2:J:359:PRO:HA	2:J:360:PRO:HD3	1.99	0.40
1:JA:406:MET:CE	1:N:306:ARG:HB2	2.51	0.40
2:JD:230:LEU:HD21	2:JD:275:VAL:HG21	2.03	0.40
2:JD:246:GLY:H	2:JD:249:ASN:HD21	1.68	0.40
2:JD:425:LEU:O	2:JD:429:GLU:OE1	2.39	0.40
1:JE:190:HIS:HB2	1:JE:414:ASN:HD21	1.85	0.40
2:JJ:211:ASP:HB3	2:JJ:215:ARG:NH1	2.36	0.40
1:JK:32:PRO:O	1:JK:83:GLN:NE2	2.53	0.40
1:JK:285:SER:HB3	1:JK:288:GLU:OE1	2.20	0.40
1:JM:133:PHE:HB2	1:JM:164:MET:CE	2.50	0.40
1:JM:187:LEU:HD11	1:JM:408:PHE:CE1	2.56	0.40
2:JN:211:ASP:OD2	2:JN:212:LEU:N	2.54	0.40
2:JN:384:ILE:O	2:JN:387:VAL:HG22	2.20	0.40
2:K:21:TRP:CZ3	2:K:63:PRO:HB3	2.56	0.40
2:K:251:ASP:O	2:K:254:GLU:HB3	2.21	0.40
2:K:429:GLU:O	2:K:433:GLU:OE1	2.38	0.40
2:KB:167:LEU:HD13	2:KB:200:VAL:HB	2.03	0.40
2:KB:188:VAL:O	2:KB:421:ALA:HB1	2.21	0.40
2:KB:217:LEU:HG	2:KB:275:VAL:HG12	2.04	0.40
1:KC:3:GLU:HA	1:KC:49:VAL:HA	2.03	0.40
1:KC:197:ASP:OD1	1:KC:198:GLU:N	2.55	0.40
2:KD:307:PRO:HB3	2:KD:312:TYR:CE1	2.57	0.40
1:KE:121:ARG:CZ	35:2N:213:PRO:HB3	2.51	0.40
2:KF:136:MET:HE3	2:KF:136:MET:HB2	2.00	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KF:193:SER:HA	2:KF:197:HIS:HD2	1.86	0.40
2:KF:326:LYS:HZ3	1:KG:220:PRO:CD	2.34	0.40
2:KF:392:ASP:HB3	2:KF:425:LEU:HD23	2.03	0.40
1:KG:58:ARG:C	1:KG:59:TYR:HD2	2.29	0.40
1:KG:102:ALA:HB1	1:KG:401:GLU:HB3	2.02	0.40
1:KG:187:LEU:HD13	1:KG:403:MET:HE1	2.02	0.40
1:KG:246:LEU:O	1:KG:352:SER:HB2	2.21	0.40
1:KI:138:SER:HA	1:KI:169:VAL:HB	2.03	0.40
2:KJ:256:GLN:HE21	2:KJ:256:GLN:HB2	1.74	0.40
2:KJ:388:PHE:HD2	2:KJ:432:TYR:HE2	1.69	0.40
1:KK:322:SER:HA	2:KL:223:SER:HB2	2.03	0.40
2:KN:70:LEU:HD12	2:KN:99:ALA:HB2	2.03	0.40
2:KN:235:VAL:O	2:KN:239:THR:HG22	2.21	0.40
2:L:262:TYR:HB2	2:L:265:ILE:HG12	2.03	0.40
1:LA:267:MET:HB2	1:LA:369:GLY:N	2.32	0.40
1:LA:363:MET:HE2	1:LA:363:MET:HB2	1.87	0.40
2:LB:317:LEU:HD21	2:LB:377:MET:HE3	2.03	0.40
1:LC:227:HIS:NE2	27:1S:33:ARG:HA	2.36	0.40
2:LD:56:THR:O	23:1A:179:GLN:NE2	2.54	0.40
2:LD:246:GLY:HA3	2:LD:355:ILE:O	2.21	0.40
2:LD:271:SER:OG	2:LD:295:VAL:HG13	2.20	0.40
1:LE:20:PHE:HZ	1:LE:50:TYR:CE1	2.39	0.40
1:LE:21:TRP:CZ3	1:LE:61:PRO:HB3	2.56	0.40
1:LE:200:MET:SD	1:LE:200:MET:N	2.88	0.40
1:LE:307:HIS:NE2	35:2N:211:TYR:OH	2.48	0.40
2:LF:216:SER:HB2	2:LF:275:VAL:O	2.21	0.40
1:LI:7:CYS:O	1:LI:135:LEU:HD12	2.21	0.40
1:LI:267:MET:HG3	1:LI:369:GLY:O	2.21	0.40
2:LJ:161:TYR:O	2:LJ:164:LYS:HG2	2.21	0.40
2:LJ:171:VAL:HG13	2:LJ:204:LEU:O	2.21	0.40
1:LK:156:ARG:NH2	1:LK:197:ASP:OD2	2.54	0.40
2:LL:199:ASP:OD2	2:LL:256:GLN:NE2	2.47	0.40
2:LN:96:LYS:HE2	29:1l:226:TYR:C	2.46	0.40
2:MA:105:ARG:HG3	2:MA:411:GLU:OE2	2.21	0.40
1:MB:215:LEU:HB3	1:MB:217:LEU:HG	2.02	0.40
2:MC:316:CYS:SG	2:MC:378:ILE:HG23	2.61	0.40
1:MD:312:THR:HG23	2:ME:181:VAL:HG11	2.03	0.40
1:MD:345:ILE:HG23	1:MD:348:ASN:HD22	1.86	0.40
1:MD:378:PHE:CD1	1:MD:415:MET:HE1	2.56	0.40
2:ME:69:ASP:OD2	2:ME:71:GLU:HG3	2.21	0.40
2:ME:247:ALA:HB1	1:MF:222:PHE:CE2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ME:336:LYS:HD3	2:ME:351:PHE:HE2	1.86	0.40
1:MF:71:GLY:HA2	26:1Q:31:LYS:NZ	2.36	0.40
2:MG:391:ILE:HD12	2:MG:391:ILE:HA	1.90	0.40
1:MH:139:LEU:HG	1:MH:168:SER:HB2	2.03	0.40
2:MI:356:ASN:OD1	2:MI:357:TYR:N	2.55	0.40
1:MJ:31:ASP:OD1	1:MJ:33:THR:OG1	2.40	0.40
1:MJ:68:LEU:HD22	1:MJ:97:ALA:HA	2.02	0.40
1:MJ:215:LEU:HB3	1:MJ:217:LEU:CD1	2.51	0.40
2:MK:215:ARG:HH12	14:0d:61:TYR:HA	1.86	0.40
2:MK:223:SER:OG	2:MK:224:TYR:N	2.54	0.40
1:ML:316:LEU:HD23	1:ML:352:SER:OG	2.21	0.40
2:MM:322:ASP:OD1	2:MM:373:ARG:NH2	2.54	0.40
1:MN:237:THR:O	1:MN:241:ARG:HG3	2.20	0.40
2:NA:188:VAL:HG12	2:NA:421:ALA:HB1	2.03	0.40
1:NB:304:ASP:OD2	1:NB:306:ARG:HG3	2.21	0.40
1:ND:20:PHE:CE1	1:ND:233:MET:HG2	2.57	0.40
1:ND:173:PRO:HB3	1:ND:380:ARG:HD2	2.03	0.40
1:ND:392:LYS:O	1:ND:392:LYS:HG3	2.20	0.40
2:NG:298:PRO:HG3	2:NG:308:ARG:HH22	1.87	0.40
2:NG:428:LEU:HD12	2:NG:428:LEU:HA	1.91	0.40
2:NK:88:ASN:O	2:NK:92:LEU:HD23	2.20	0.40
2:NK:269:LEU:HD11	2:NK:379:ALA:HB3	2.03	0.40
1:NL:74:ASP:OD1	1:NL:75:SER:N	2.53	0.40
1:NL:314:SER:HB3	1:NL:368:ILE:CG2	2.51	0.40
2:OA:166:LYS:O	2:OA:199:ASP:HB2	2.21	0.40
1:OD:27:GLU:CD	1:OD:241:ARG:HH21	2.27	0.40
1:OD:165:MET:HG3	1:OD:200:MET:HE1	2.03	0.40
1:OD:210:ILE:HG22	1:OD:215:LEU:HD23	2.03	0.40
2:OG:194:LEU:O	2:OG:266:HIS:HE1	2.03	0.40
1:OH:109:GLY:O	1:OH:113:ILE:HB	2.21	0.40
2:OI:176:GLN:OE1	2:OI:176:GLN:N	2.54	0.40
1:OJ:356:ILE:HD13	1:OJ:356:ILE:HA	1.90	0.40
1:OL:261:PRO:O	1:OL:264:HIS:HD2	2.04	0.40
1:OL:382:GLY:O	1:OL:386:THR:HG23	2.21	0.40
2:OM:88:ASN:O	2:OM:92:LEU:HD23	2.21	0.40
1:P:12:CYS:HB2	69:P:500:GDP:N7	2.36	0.40
1:PD:371:ASN:OD1	1:PD:372:THR:N	2.54	0.40
2:PE:265:ILE:HG23	2:PE:432:TYR:CZ	2.56	0.40
2:PE:306:ASP:OD2	2:PE:308:ARG:HB2	2.21	0.40
2:PG:233:GLN:HA	2:PG:233:GLN:OE1	2.20	0.40
1:PH:273:LEU:N	1:PH:292:GLN:OE1	2.48	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PI:326:LYS:HG2	1:PJ:212:PHE:HZ	1.84	0.40
1:PJ:148:GLY:O	1:PJ:152:ILE:HG13	2.21	0.40
1:PJ:289:LEU:HD23	1:PJ:289:LEU:HA	1.90	0.40
2:PK:155:GLU:HG2	2:PK:197:HIS:ND1	2.36	0.40
1:PL:294:PHE:HE1	1:PL:367:PHE:CE1	2.39	0.40
2:PM:6:CYS:C	2:PM:7:ILE:HD13	2.46	0.40
2:PM:306:ASP:OD2	2:PM:308:ARG:HB2	2.22	0.40
2:PM:319:TYR:CD2	2:PM:323:VAL:HG21	2.55	0.40
1:QA:101:TRP:HZ3	1:QA:403:MET:HE1	1.86	0.40
1:QA:337:ASN:ND2	59:4a:140:ILE:HG22	2.36	0.40
1:QA:392:LYS:CE	57:3f:69:MET:HE1	2.51	0.40
2:QB:296:PHE:CZ	2:QB:377:MET:HE1	2.56	0.40
2:QB:408:TYR:HB2	2:QB:418:PHE:HZ	1.86	0.40
1:QG:293:MET:HE2	1:QG:367:PHE:HD1	1.85	0.40
2:QH:140:ALA:HB3	71:QH:501:GTP:O2A	2.21	0.40
1:QI:271:ALA:HB3	1:QI:365:VAL:HG12	2.03	0.40
2:QL:52:PHE:CE2	2:QL:243:ARG:HD3	2.56	0.40
2:QL:215:ARG:HE	59:4b:103:TYR:HE1	1.69	0.40
2:RD:155:GLU:O	2:RD:159:VAL:HG23	2.21	0.40
1:RE:255:VAL:HG23	2:RF:407:TRP:CD1	2.56	0.40
1:RG:117:LEU:HB3	1:RG:121:ARG:NH2	2.35	0.40
1:RG:320:ARG:HD3	28:1Y:75:LYS:O	2.20	0.40
2:RJ:52:PHE:CE1	2:RJ:243:ARG:HD3	2.56	0.40
2:RJ:346:TRP:H	2:RJ:346:TRP:CD1	2.38	0.40
1:S:173:PRO:HD2	1:S:380:ARG:CZ	2.52	0.40
1:S:193:VAL:HA	1:S:264:HIS:NE2	2.36	0.40
2:SC:240:ALA:O	2:SC:356:ASN:ND2	2.54	0.40
1:SD:87:PRO:HD3	1:TD:281:TYR:CD2	2.56	0.40
2:SG:66:LEU:HD12	2:SG:91:GLN:HA	2.03	0.40
2:SG:275:VAL:O	2:SG:275:VAL:HG13	2.20	0.40
2:SI:138:PHE:CE2	2:SI:235:VAL:HG21	2.55	0.40
2:SK:96:LYS:NZ	61:3x:90:ALA:HB2	2.36	0.40
2:SK:394:LYS:HB3	2:SK:394:LYS:HE2	1.85	0.40
1:T:320:ARG:HH12	53:3W:159:TRP:CG	2.39	0.40
2:TA:291:ILE:O	2:TA:295:VAL:HG23	2.21	0.40
2:TA:430:LYS:HA	2:TA:430:LYS:HD2	1.85	0.40
1:TB:113:ILE:HA	1:TB:116:VAL:CG2	2.52	0.40
1:TB:240:LEU:HD23	1:TB:240:LEU:HA	1.84	0.40
1:TB:326:VAL:HG21	1:TB:353:ILE:HD11	2.03	0.40
1:TD:316:LEU:HB2	1:TD:366:THR:CG2	2.51	0.40
2:TE:36:MET:HE2	2:TE:36:MET:HB3	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:TG:227:VAL:O	2:TG:231:ILE:HG13	2.21	0.40
1:TH:346:PRO:HD2	2:TI:398:MET:HE3	2.03	0.40
2:TK:57:GLY:C	8:0J:300:ARG:HG2	2.46	0.40
2:UC:62:VAL:HG21	2:VC:283:HIS:O	2.21	0.40
2:UC:312:TYR:HB2	2:UC:343:PHE:HD1	1.86	0.40
2:UE:326:LYS:HB2	2:UE:326:LYS:HE2	1.84	0.40
1:UH:206:ALA:O	1:UH:210:ILE:HG12	2.20	0.40
1:UH:417:ASP:O	1:UH:421:GLU:HG3	2.21	0.40
1:UJ:167:PHE:CE1	1:UJ:200:MET:SD	3.13	0.40
2:UK:69:ASP:OD2	2:UK:70:LEU:N	2.54	0.40
2:UK:155:GLU:HA	2:UK:197:HIS:ND1	2.36	0.40
1:V:46:ARG:NH2	2:VA:72:PRO:HB2	2.36	0.40
1:V:87:PRO:HD3	1:W:281:TYR:CD2	2.56	0.40
1:V:375:GLN:NE2	1:V:426:GLN:OE1	2.54	0.40
2:VA:115:VAL:HG21	2:VA:152:LEU:CD2	2.51	0.40
1:VB:21:TRP:CZ3	1:VB:50:TYR:HB3	2.57	0.40
1:VB:67:ASP:CG	1:VB:73:MET:HE3	2.46	0.40
1:VB:198:GLU:HB2	1:VB:266:PHE:HE2	1.85	0.40
1:VB:289:LEU:HD12	1:VB:363:MET:HE2	2.02	0.40
1:VB:334:GLN:HE22	1:VB:347:ASN:HA	1.87	0.40
2:VE:67:PHE:HB2	2:VE:92:LEU:HD12	2.02	0.40
2:VE:329:ASN:OD1	1:VF:175:VAL:HA	2.21	0.40
1:VF:21:TRP:CZ2	1:VF:63:ALA:HB2	2.56	0.40
2:VG:121:ARG:O	2:VG:125:LEU:HD23	2.21	0.40
2:VI:301:MET:HE2	2:VI:303:THR:O	2.21	0.40
1:VJ:8:GLN:N	1:VJ:8:GLN:OE1	2.54	0.40
1:VJ:10:GLY:HA2	1:VJ:143:THR:HG23	2.03	0.40
1:VJ:273:LEU:O	1:VJ:292:GLN:NE2	2.39	0.40
1:VJ:417:ASP:O	1:VJ:421:GLU:HG3	2.21	0.40
1:VL:403:MET:HE3	1:VL:408:PHE:CE1	2.54	0.40
2:VM:165:SER:HA	2:VM:199:ASP:OD2	2.21	0.40
2:WA:269:LEU:HD22	2:WA:303:THR:HG21	2.02	0.40
2:WA:388:PHE:HA	2:WA:391:ILE:HG22	2.03	0.40
1:WD:3:GLU:HG2	1:WD:62:ARG:CZ	2.52	0.40
1:WF:317:PHE:HB3	1:WF:321:MET:SD	2.60	0.40
1:WH:380:ARG:HG2	1:WH:380:ARG:HH11	1.85	0.40
1:WL:131:GLN:HE22	1:WL:240:LEU:HD21	1.86	0.40
1:WL:282:ARG:HH11	1:WL:288:GLU:HB3	1.86	0.40
3:XA:68:THR:HG22	3:XA:153:ARG:HH22	1.86	0.40
4:XQ:240:TYR:CE1	4:XQ:284:LEU:HD22	2.56	0.40
6:0A:46:ILE:HG12	6:0A:134:VAL:HG21	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:0A:192:MET:O	6:0A:196:VAL:HB	2.21	0.40
8:0G:136:MET:HA	8:0G:139:LYS:HG2	2.03	0.40
8:0G:209:ARG:HB2	8:0G:209:ARG:HH11	1.86	0.40
8:0G:462:LEU:HD22	8:0G:472:ARG:HB3	2.03	0.40
9:0M:45:ILE:HG12	9:0M:95:PHE:HE1	1.87	0.40
10:0R:305:GLU:O	10:0R:308:ARG:HG3	2.21	0.40
16:0l:647:LEU:HA	16:0l:650:VAL:HG12	2.04	0.40
16:0l:677:THR:H	16:0l:680:GLN:HE21	1.69	0.40
16:0l:811:LEU:HD23	16:0l:811:LEU:HA	1.97	0.40
17:0m:132:LYS:O	17:0m:135:GLU:HG3	2.21	0.40
17:0n:289:GLN:HA	17:0n:292:ILE:HD13	2.02	0.40
19:0r:168:ARG:HH11	19:0r:168:ARG:HG3	1.85	0.40
20:0u:48:HIS:CE1	20:0u:84:LEU:HD23	2.56	0.40
21:0w:49:ILE:C	21:0w:50:LEU:HD12	2.46	0.40
21:0w:248:HIS:O	21:0w:251:GLN:HG3	2.21	0.40
21:0w:475:LEU:O	21:0w:479:GLU:HG3	2.21	0.40
23:1B:259:THR:O	23:1B:263:LEU:HD23	2.22	0.40
24:1I:490:PHE:CE2	24:1I:496:VAL:HG11	2.57	0.40
24:1I:548:GLU:HA	24:1I:551:ARG:HE	1.86	0.40
28:1X:150:GLU:OE1	28:1X:154:ARG:HB2	2.20	0.40
31:1r:140:GLU:HA	31:1r:143:ARG:HG2	2.02	0.40
32:2B:112:VAL:HG21	33:2G:155:ARG:CZ	2.51	0.40
32:2C:123:ARG:NH2	32:2C:229:GLN:H	2.17	0.40
35:2N:260:VAL:HG13	35:2N:261:HIS:CD2	2.57	0.40
37:2S:164:PHE:CE1	37:2S:167:ARG:HG3	2.49	0.40
39:2X:47:GLN:OE1	39:2X:50:ARG:NH2	2.48	0.40
39:2X:162:ASP:OD2	39:2X:165:ARG:NE	2.53	0.40
40:2Z:67:LEU:O	40:2Z:102:PHE:HA	2.20	0.40
41:2h:364:ASN:HD22	41:2h:368:HIS:HE1	1.69	0.40
41:2i:439:ARG:O	41:2i:443:GLU:HG2	2.21	0.40
41:2k:218:ARG:O	41:2k:221:ARG:HG3	2.22	0.40
41:2n:180:GLN:HA	41:2n:183:LYS:HG2	2.03	0.40
43:2t:270:ASP:OD1	43:2t:271:VAL:N	2.54	0.40
44:2w:312:VAL:HG22	44:2w:382:TYR:CD2	2.56	0.40
48:3H:30:TRP:HA	48:3H:33:MET:HG2	2.03	0.40
49:3Q:205:ASP:HB3	49:3Q:208:PHE:CD1	2.56	0.40
57:3g:104:ILE:O	57:3g:108:VAL:HG23	2.21	0.40
60:3s:124:PRO:HG2	60:3s:127:ARG:HH21	1.86	0.40
68:5S:150:ASP:OD2	68:5S:154:SER:OG	2.29	0.40
2:AA:295:VAL:HG21	2:AA:375:VAL:HG13	2.02	0.40
1:AB:77:ARG:HG3	1:AB:90:PHE:CE2	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:200:MET:HB3	1:AB:268:MET:SD	2.62	0.40
2:AC:335:ILE:HG23	2:AC:341:ILE:HD11	2.04	0.40
2:AC:395:PHE:CD1	2:AC:422:ARG:HD3	2.57	0.40
2:AC:422:ARG:HH12	2:AC:426:ALA:HB2	1.86	0.40
1:AD:282:ARG:HA	1:MD:86:ARG:HH12	1.87	0.40
2:AE:362:VAL:HG11	54:3Z:359:PRO:HD3	2.03	0.40
1:AF:174:ARG:HD3	1:AF:174:ARG:N	2.36	0.40
2:AI:103:TYR:HD1	2:AI:413:MET:HE1	1.86	0.40
2:AI:122:ILE:HD13	2:AI:122:ILE:HA	1.83	0.40
2:AI:275:VAL:HG13	2:AI:275:VAL:O	2.22	0.40
1:AJ:173:PRO:HD2	1:AJ:380:ARG:NH2	2.36	0.40
2:AK:5:ILE:HG12	2:AK:132:LEU:HD13	2.02	0.40
1:AL:148:GLY:O	1:AL:152:ILE:HG12	2.21	0.40
1:AL:424:GLN:HA	1:AL:427:ASP:OD1	2.21	0.40
1:AN:130:LEU:HB3	1:AN:162:ARG:HD2	2.02	0.40
1:AN:308:GLY:HA3	1:AN:373:CYS:HB2	2.03	0.40
2:BC:59:GLY:HA2	27:1S:269:VAL:HG13	2.04	0.40
2:BE:236:SER:HA	2:BE:239:THR:HG22	2.03	0.40
2:BE:271:SER:HB2	2:BE:301:MET:HA	2.02	0.40
1:BF:334:GLN:NE2	1:BF:348:ASN:HB2	2.33	0.40
1:BH:102:ALA:O	1:BH:103:LYS:C	2.63	0.40
2:BI:164:LYS:HB2	2:BI:164:LYS:HE2	1.82	0.40
2:BI:333:ALA:O	2:BI:337:THR:HG23	2.21	0.40
1:BJ:3:GLU:HA	1:BJ:49:VAL:HA	2.03	0.40
1:BJ:322:SER:HB2	2:BK:222:PRO:O	2.21	0.40
2:BK:142:GLY:HA2	2:BK:183:GLU:HG3	2.03	0.40
2:BK:388:PHE:CD2	2:BK:432:TYR:HE2	2.39	0.40
1:BL:192:LEU:HD23	1:BL:199:SER:OG	2.20	0.40
1:BL:219:THR:N	1:BL:220:PRO:HD3	2.36	0.40
2:BM:117:LEU:HD11	2:BM:121:ARG:NH2	2.36	0.40
2:BM:237:SER:HA	2:BM:320:ARG:HE	1.86	0.40
1:CA:97:ALA:HB2	1:CA:143:THR:HB	2.02	0.40
1:CA:323:THR:HG21	2:CB:224:TYR:CZ	2.56	0.40
1:CA:379:ARG:O	1:CA:383:GLU:OE1	2.38	0.40
2:CD:26:LEU:O	26:1Q:250:ARG:NH1	2.54	0.40
2:CD:193:SER:O	2:CD:197:HIS:N	2.52	0.40
2:CD:388:PHE:HD2	2:CD:432:TYR:HE2	1.69	0.40
2:CF:272:TYR:HD1	2:CF:376:CYS:HB2	1.86	0.40
2:CH:268:VAL:HG23	2:CH:379:ALA:C	2.46	0.40
2:CH:428:LEU:HA	2:CH:431:ASP:OD2	2.20	0.40
1:CI:294:PHE:CE2	1:CI:333:VAL:HG21	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CK:27:GLU:OE1	1:CK:241:ARG:NH2	2.54	0.40
1:CK:362:LYS:HZ2	1:CK:363:MET:HE3	1.86	0.40
2:CL:324:VAL:O	2:CL:328:VAL:HG23	2.21	0.40
1:CM:225:LEU:O	1:CM:228:LEU:HG	2.21	0.40
2:D:50:ASN:OD1	2:D:51:THR:N	2.54	0.40
2:D:291:ILE:O	2:D:295:VAL:HG23	2.20	0.40
2:DF:107:HIS:CD2	2:DF:152:LEU:HD13	2.56	0.40
2:DF:224:TYR:HA	2:DF:227:VAL:HG22	2.02	0.40
2:DF:227:VAL:O	2:DF:231:ILE:HG12	2.21	0.40
2:DH:211:ASP:O	2:DH:215:ARG:HG2	2.22	0.40
2:DH:275:VAL:HG13	2:DH:275:VAL:O	2.21	0.40
1:DI:104:GLY:O	1:DI:147:MET:HB3	2.21	0.40
1:DI:167:PHE:CZ	1:DI:233:MET:HG2	2.56	0.40
1:DI:249:ASP:O	1:DI:252:LYS:HB3	2.21	0.40
2:DJ:345:ASP:OD1	2:DJ:346:TRP:N	2.54	0.40
1:DK:267:MET:HE2	1:DK:299:MET:SD	2.61	0.40
2:DL:255:PHE:O	2:DL:259:LEU:HD23	2.21	0.40
1:DM:186:THR:HA	1:DM:415:MET:SD	2.61	0.40
1:DM:193:VAL:HA	1:DM:264:HIS:HE2	1.87	0.40
1:DM:238:CYS:HA	1:DM:241:ARG:NH1	2.35	0.40
1:E:253:LEU:O	1:E:257:LEU:HB2	2.21	0.40
1:EB:344:TRP:HB3	1:EB:430:VAL:HG12	2.03	0.40
1:EF:4:ILE:HD11	1:EF:240:LEU:HD12	2.03	0.40
1:EF:268:MET:HB2	1:EF:300:MET:HG2	2.03	0.40
2:EG:345:ASP:OD2	2:EG:346:TRP:N	2.53	0.40
2:EG:346:TRP:CE3	2:EG:347:CYS:HB2	2.57	0.40
2:EK:122:ILE:HD13	2:EK:122:ILE:HA	1.84	0.40
2:EK:256:GLN:O	2:EK:260:VAL:HG12	2.20	0.40
1:EL:403:MET:HE2	1:EL:403:MET:HB3	1.81	0.40
1:F:109:GLY:O	1:F:113:ILE:N	2.54	0.40
1:F:268:MET:H	1:F:301:GLN:NE2	2.19	0.40
2:FA:274:PRO:HG2	2:FA:371:VAL:HG11	2.02	0.40
1:FB:68:LEU:HD12	1:FB:97:ALA:HB2	2.02	0.40
1:FB:134:GLN:HA	1:FB:165:MET:HB2	2.02	0.40
2:FE:261:PRO:HG3	2:FE:313:MET:HE2	2.02	0.40
1:FH:403:MET:HE3	1:FH:408:PHE:CE1	2.57	0.40
2:FI:241:SER:HB2	2:FI:250:VAL:H	1.86	0.40
2:FI:275:VAL:HG13	2:FI:275:VAL:O	2.21	0.40
1:FL:375:GLN:NE2	1:FL:419:VAL:HG13	2.36	0.40
1:GB:86:ARG:HA	1:GB:87:PRO:HD3	1.95	0.40
1:GD:406:MET:HB3	66:5K:148:LYS:NZ	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GF:83:GLN:NE2	10:0R:126:ARG:HH12	2.18	0.40
1:GF:86:ARG:HE	1:GF:86:ARG:HB2	1.72	0.40
1:GF:255:VAL:HG23	2:GG:407:TRP:CG	2.57	0.40
1:GF:311:LEU:HD23	1:GF:342:ILE:CD1	2.52	0.40
1:GL:91:ILE:HD13	1:GL:119:VAL:HG11	2.02	0.40
1:GL:293:MET:HG2	1:GL:367:PHE:CD1	2.55	0.40
1:H:346:PRO:HG2	2:HA:394:LYS:NZ	2.36	0.40
2:HA:183:GLU:N	2:HA:184:PRO:HD2	2.37	0.40
2:HC:9:ILE:HG22	2:HC:146:GLY:HA2	2.02	0.40
2:HC:140:ALA:HB2	2:HC:171:VAL:HB	2.02	0.40
2:HC:331:ALA:HA	2:HC:334:THR:HG22	2.03	0.40
1:HD:222:PHE:HA	1:HD:225:LEU:HD12	2.04	0.40
1:HD:263:LEU:HD11	1:HD:425:TYR:CD2	2.57	0.40
2:HE:154:LEU:HB3	2:HE:197:HIS:HB2	2.03	0.40
2:HE:270:THR:HA	2:HE:377:MET:O	2.21	0.40
2:HG:127:ASP:OD1	2:HG:128:ASN:N	2.54	0.40
1:HH:156:ARG:HG2	1:HH:164:MET:CE	2.51	0.40
1:HH:172:SER:O	1:HH:176:SER:N	2.54	0.40
1:HH:190:HIS:HB2	1:HH:414:ASN:ND2	2.36	0.40
2:HI:201:ALA:O	2:HI:268:VAL:HG22	2.22	0.40
2:HK:213:THR:O	2:HK:217:LEU:HB2	2.20	0.40
2:HK:258:ASN:HD22	1:HL:180:VAL:HG23	1.86	0.40
1:HL:251:ARG:NH1	2:HM:105:ARG:HH12	2.19	0.40
1:HL:377:MET:O	1:HL:380:ARG:HG2	2.22	0.40
1:I:87:PRO:HB2	2:J:280:LYS:NZ	2.36	0.40
2:IA:188:VAL:O	2:IA:191:THR:HG22	2.21	0.40
1:IB:58:ARG:NH2	1:IB:83:GLN:HG3	2.36	0.40
71:IC:501:GTP:H8	71:IC:501:GTP:O2A	2.05	0.40
1:ID:149:THR:HG21	1:ID:188:SER:HA	2.03	0.40
1:IF:178:THR:HG22	1:IF:180:VAL:H	1.86	0.40
2:IG:191:THR:O	2:IG:195:LEU:HD23	2.21	0.40
2:IK:158:SER:OG	2:IK:197:HIS:HB3	2.21	0.40
1:IL:61:PRO:HG2	1:IL:85:PHE:CD1	2.57	0.40
1:IL:375:GLN:HA	1:IL:419:VAL:HG23	2.02	0.40
2:IM:74:VAL:O	2:IM:78:VAL:HG23	2.22	0.40
2:J:33:ASP:OD1	2:J:34:GLY:N	2.54	0.40
2:J:262:TYR:HB2	2:J:265:ILE:HG12	2.02	0.40
2:J:264:ARG:HG3	2:J:264:ARG:NH1	2.35	0.40
1:JC:69:GLU:OE2	1:JC:96:GLY:HA3	2.21	0.40
2:JH:136:MET:HG2	2:JH:167:LEU:HB2	2.03	0.40
2:JJ:402:ARG:HB3	2:JJ:405:VAL:CG1	2.49	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JJ:402:ARG:CZ	60:3s:108:ILE:HD11	2.51	0.40
1:JK:42:LEU:HD12	1:JK:356:ILE:HD11	2.03	0.40
1:JK:342:ILE:HG22	1:JK:348:ASN:OD1	2.21	0.40
2:JL:296:PHE:CZ	2:JL:335:ILE:HG21	2.57	0.40
2:JL:384:ILE:O	2:JL:387:VAL:HG12	2.21	0.40
1:JM:252:LYS:CD	2:JN:101:ASN:HB2	2.51	0.40
2:KB:352:LYS:HA	1:KC:177:ASP:O	2.21	0.40
1:KC:91:ILE:HD13	1:KC:116:VAL:HA	2.02	0.40
1:KC:139:LEU:HG	1:KC:168:SER:HB2	2.03	0.40
2:KD:217:LEU:HD11	2:KD:367:ASP:O	2.22	0.40
1:KE:3:GLU:O	1:KE:131:GLN:N	2.53	0.40
1:KE:130:LEU:HB3	1:KE:162:ARG:NH1	2.36	0.40
1:KE:372:THR:HB	1:KE:426:GLN:HB2	2.03	0.40
2:KF:188:VAL:HG21	2:KF:395:PHE:HB2	2.02	0.40
2:KF:261:PRO:HG3	2:KF:313:MET:HE2	2.02	0.40
2:KF:388:PHE:HA	2:KF:391:ILE:HG22	2.03	0.40
1:KI:316:LEU:HB2	1:KI:366:THR:OG1	2.21	0.40
2:KJ:251:ASP:N	2:KJ:254:GLU:HB2	2.35	0.40
2:KL:101:ASN:OD1	2:KL:143:GLY:HA2	2.20	0.40
2:KL:188:VAL:HG21	2:KL:395:PHE:HB2	2.02	0.40
2:KN:34:GLY:HA3	2:KN:60:LYS:HG3	2.03	0.40
2:KN:88:ASN:OD1	2:KN:89:PRO:HD2	2.22	0.40
2:KN:169:TYR:HA	2:KN:202:THR:HB	2.03	0.40
2:L:288:VAL:CB	2:L:327:ASP:HB3	2.50	0.40
1:LA:249:ASP:OD1	1:LA:252:LYS:N	2.34	0.40
1:LA:272:PRO:HD3	1:LA:364:SER:HA	2.02	0.40
1:LE:74:ASP:OD1	1:LE:74:ASP:N	2.51	0.40
1:LE:149:THR:HA	1:LE:152:ILE:HG12	2.03	0.40
1:LE:359:LYS:HE2	45:2y:283:TYR:HD2	1.85	0.40
2:LF:111:GLY:HA2	2:LF:149:LEU:HD12	2.03	0.40
1:LG:107:THR:HG22	33:2G:256:HIS:HD1	1.85	0.40
1:LG:248:SER:HA	1:LG:252:LYS:HD2	2.02	0.40
2:LJ:174:SER:OG	2:LJ:177:VAL:O	2.40	0.40
1:LK:113:ILE:HD11	1:LK:154:LYS:HG3	2.03	0.40
2:LL:169:TYR:OH	2:LL:238:LEU:HD23	2.21	0.40
1:LM:330:MET:O	1:LM:333:VAL:HG12	2.21	0.40
1:LO:263:LEU:HD13	1:LO:422:TYR:CE1	2.55	0.40
1:LO:421:GLU:HA	1:LO:424:GLN:HG3	2.04	0.40
1:M:293:MET:HE1	1:M:330:MET:HE1	2.03	0.40
2:MA:167:LEU:HD21	2:MA:255:PHE:CZ	2.56	0.40
2:MA:223:SER:OG	2:MA:224:TYR:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MB:252:LYS:HG2	1:MB:350:LYS:HZ3	1.86	0.40
2:MC:72:PRO:O	2:MC:76:ASP:HB2	2.21	0.40
1:MD:310:TYR:HA	1:MD:371:ASN:HA	2.03	0.40
1:MD:375:GLN:HG2	1:MD:422:TYR:HB3	2.02	0.40
2:ME:192:HIS:ND1	2:ME:421:ALA:HA	2.36	0.40
2:ME:199:ASP:OD2	2:ME:256:GLN:HG3	2.20	0.40
1:MF:267:MET:HG3	1:MF:374:ILE:HD11	2.03	0.40
2:MI:145:THR:OG1	71:MI:501:GTP:O2G	2.32	0.40
1:MJ:18:SER:O	1:MJ:22:GLU:HG2	2.20	0.40
2:MK:426:ALA:HA	2:MK:429:GLU:CD	2.46	0.40
2:MM:337:THR:HB	33:2I:208:LYS:HE2	2.03	0.40
1:MN:313:ALA:HB3	1:MN:349:ILE:HD13	2.02	0.40
2:NA:301:MET:HE3	2:NA:301:MET:HB3	1.83	0.40
1:NB:210:ILE:HD11	1:NB:299:MET:C	2.47	0.40
1:NB:392:LYS:HA	1:NB:392:LYS:HD3	1.87	0.40
2:NE:21:TRP:CE2	2:NE:65:CYS:HB3	2.56	0.40
2:NE:168:GLY:O	2:NE:170:THR:HG23	2.21	0.40
1:NF:385:PHE:CE2	1:NF:412:GLU:HB2	2.55	0.40
1:NJ:232:VAL:HG21	1:NJ:268:MET:HG2	2.03	0.40
1:NJ:386:THR:O	1:NJ:390:ARG:HG3	2.21	0.40
2:NK:7:ILE:O	2:NK:137:VAL:HA	2.21	0.40
1:NL:102:ALA:O	1:NL:106:TYR:HB2	2.21	0.40
1:NL:119:VAL:O	1:NL:122:LYS:HG2	2.22	0.40
1:NL:141:GLY:O	1:NL:145:SER:OG	2.36	0.40
1:NL:173:PRO:HD2	1:NL:380:ARG:NE	2.36	0.40
2:NM:169:TYR:CE2	2:NM:235:VAL:HG22	2.56	0.40
2:NM:234:VAL:HG22	2:NM:272:TYR:HB2	2.02	0.40
1:O:17:GLY:HA2	1:O:20:PHE:HB3	2.02	0.40
1:O:245:GLN:HB3	2:OA:224:TYR:CD2	2.56	0.40
2:OA:268:VAL:HG11	2:OA:378:ILE:CG2	2.48	0.40
2:OA:279:GLU:OE2	41:2o:475:ILE:HD12	2.21	0.40
2:OA:328:VAL:O	2:OA:332:ILE:HG12	2.20	0.40
1:OB:208:TYR:O	1:OB:212:PHE:CD2	2.74	0.40
1:OB:323:THR:HG22	1:OB:327:ASP:OD2	2.20	0.40
1:OB:379:ARG:HE	1:OB:419:VAL:CG1	2.34	0.40
2:OC:275:VAL:HG13	2:OC:275:VAL:O	2.21	0.40
2:OC:409:VAL:HG11	2:OC:415:GLU:HG2	2.02	0.40
1:OD:44:LEU:HD11	1:OD:59:TYR:OH	2.21	0.40
2:OE:90:GLU:C	2:OE:92:LEU:H	2.30	0.40
1:OJ:51:PHE:HB3	1:OJ:59:TYR:HB3	2.04	0.40
1:OL:292:GLN:HB2	1:OL:298:ASN:HD22	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PA:8:HIS:HE1	2:PA:21:TRP:NE1	2.19	0.40
2:PA:195:LEU:HD11	2:PA:428:LEU:HD22	2.03	0.40
1:PB:215:LEU:HD11	1:PB:228:LEU:HD21	2.02	0.40
1:PB:347:ASN:HD22	2:PC:178:SER:HB2	1.86	0.40
2:PE:196:GLU:OE2	55:3b:38:LYS:HA	2.21	0.40
2:PI:346:TRP:O	1:PJ:388:MET:HG2	2.21	0.40
1:PJ:86:ARG:HA	1:QI:281:TYR:HD2	1.85	0.40
2:PK:196:GLU:HG3	2:PK:197:HIS:CG	2.57	0.40
2:PK:264:ARG:HG2	57:3h:31:GLN:NE2	2.36	0.40
1:PL:200:MET:HE3	1:PL:266:PHE:HB2	2.02	0.40
2:QB:313:MET:SD	2:QB:435:VAL:HB	2.61	0.40
2:QB:339:ARG:NH2	59:4a:167:ASP:O	2.44	0.40
1:QC:18:SER:O	1:QC:22:GLU:HG3	2.22	0.40
1:QC:119:VAL:O	1:QC:122:LYS:HG3	2.21	0.40
1:QC:267:MET:HB3	1:QC:374:ILE:HD11	2.02	0.40
1:QC:344:TRP:CD1	1:QC:344:TRP:H	2.39	0.40
2:QD:6:CYS:O	2:QD:65:CYS:HA	2.20	0.40
2:QD:102:ASN:ND2	2:QD:411:GLU:HG3	2.36	0.40
1:QE:150:LEU:HD21	1:QE:154:LYS:HE2	2.03	0.40
1:QE:317:PHE:HB2	1:QE:353:ILE:HD13	2.03	0.40
2:QF:251:ASP:H	2:QF:254:GLU:CB	2.29	0.40
2:QH:79:ARG:NH1	2:QH:92:LEU:O	2.54	0.40
2:QH:260:VAL:HG12	2:QH:266:HIS:HA	2.02	0.40
1:QI:87:PRO:HD3	1:RI:281:TYR:CD2	2.56	0.40
2:QJ:195:LEU:HD11	2:QJ:428:LEU:HD13	2.03	0.40
1:QK:257:LEU:HD11	1:QK:314:SER:HB3	2.02	0.40
1:QK:259:PRO:HA	2:QL:404:PHE:CD1	2.56	0.40
1:QK:336:LYS:HD2	59:4b:89:ARG:HH11	1.86	0.40
2:R:4:ALA:HB3	2:R:52:PHE:CE2	2.49	0.40
2:R:212:LEU:HD22	2:R:230:LEU:HD21	2.03	0.40
2:R:304:LYS:HA	2:R:304:LYS:HD3	1.95	0.40
2:R:376:CYS:O	2:R:377:MET:HE2	2.21	0.40
1:RA:230:ALA:HA	1:RA:233:MET:HE3	2.01	0.40
1:RA:330:MET:N	1:RA:330:MET:SD	2.93	0.40
1:RC:156:ARG:HE	1:RC:156:ARG:HB3	1.71	0.40
1:RC:187:LEU:HD11	1:RC:408:PHE:CE1	2.57	0.40
2:RD:278:ALA:HB2	2:RD:369:ALA:HB2	2.02	0.40
2:RF:254:GLU:HG3	2:RF:352:LYS:NZ	2.36	0.40
1:RG:347:ASN:ND2	2:RH:178:SER:HB3	2.33	0.40
2:RJ:7:ILE:O	2:RJ:137:VAL:HA	2.21	0.40
1:RK:134:GLN:HA	1:RK:165:MET:HB2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SA:274:PRO:HG2	2:SA:371:VAL:HG21	2.03	0.40
2:SC:136:MET:HA	2:SC:167:LEU:O	2.20	0.40
1:SD:182:PRO:HG2	1:SD:388:MET:SD	2.62	0.40
1:SF:3:GLU:OE2	1:SF:127:CYS:HB2	2.21	0.40
2:SG:273:ALA:HB3	2:SG:295:VAL:HG23	2.02	0.40
2:SG:301:MET:HE1	2:SG:305:CYS:O	2.22	0.40
2:SK:236:SER:HA	2:SK:239:THR:HG22	2.03	0.40
2:SK:268:VAL:HG23	2:SK:378:ILE:HD11	2.04	0.40
1:T:345:ILE:HG23	1:T:348:ASN:HD22	1.84	0.40
1:T:350:LYS:HD3	2:TA:180:ALA:HA	2.02	0.40
2:TA:274:PRO:HD2	2:TA:374:ALA:HA	2.03	0.40
1:TB:328:GLU:OE2	1:TB:329:GLN:NE2	2.54	0.40
1:TB:374:ILE:HG13	1:TB:378:PHE:CE2	2.56	0.40
1:TD:105:HIS:NE2	1:TD:150:LEU:HB3	2.35	0.40
2:TE:234:VAL:HG13	2:TE:376:CYS:SG	2.61	0.40
1:TF:309:ARG:NH1	1:TF:339:SER:O	2.54	0.40
2:TG:180:ALA:HB3	2:TG:183:GLU:HB3	2.03	0.40
2:TG:259:LEU:HD21	2:TG:268:VAL:HG11	2.03	0.40
2:TI:223:SER:OG	2:TI:224:TYR:N	2.54	0.40
2:TK:313:MET:HB3	2:TK:380:ASN:O	2.22	0.40
2:TK:333:ALA:O	2:TK:337:THR:HG23	2.21	0.40
1:TL:152:ILE:HG23	1:TL:164:MET:HE3	2.04	0.40
1:U:151:LEU:O	1:U:155:LEU:HB2	2.21	0.40
1:U:167:PHE:HA	1:U:200:MET:HB2	2.02	0.40
1:UB:69:GLU:CD	1:UB:71:GLY:H	2.30	0.40
2:UC:140:ALA:HB2	2:UC:171:VAL:HB	2.03	0.40
2:UC:424:ASP:O	2:UC:428:LEU:HD23	2.21	0.40
1:UD:170:ILE:CG1	1:UD:201:CYS:HB3	2.51	0.40
1:UD:210:ILE:HG23	1:UD:214:THR:HB	2.03	0.40
1:UD:385:PHE:HZ	1:UD:408:PHE:HD2	1.68	0.40
1:UF:9:ALA:HB2	1:UF:66:MET:SD	2.61	0.40
1:UH:250:LEU:HD13	1:UH:250:LEU:HA	1.96	0.40
2:UI:326:LYS:NZ	1:UJ:208:TYR:O	2.54	0.40
1:UJ:8:GLN:HB2	1:UJ:14:ASN:HA	2.02	0.40
1:UJ:178:THR:HB	1:UJ:181:GLU:HG3	2.03	0.40
2:UK:168:GLY:O	2:UK:170:THR:HG23	2.21	0.40
2:UK:224:TYR:O	2:UK:228:ASN:ND2	2.53	0.40
1:UL:66:MET:SD	1:UL:116:VAL:HG21	2.61	0.40
1:V:258:VAL:HB	2:VA:407:TRP:HE1	1.85	0.40
2:VA:315:CYS:SG	2:VA:377:MET:HE1	2.62	0.40
1:VB:193:VAL:HG22	1:VB:265:PHE:HE1	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VC:203:MET:HE3	2:VC:384:ILE:CD1	2.51	0.40
1:VD:156:ARG:NH2	1:VD:164:MET:HG2	2.36	0.40
1:VD:167:PHE:CE1	1:VD:233:MET:HG2	2.57	0.40
2:VE:156:ARG:HA	2:VE:156:ARG:HD2	1.81	0.40
1:VF:18:SER:O	1:VF:22:GLU:OE1	2.38	0.40
1:VF:99:ASN:C	1:VF:99:ASN:HD22	2.29	0.40
2:VG:308:ARG:HB2	62:4B:269:MET:SD	2.60	0.40
2:VG:319:TYR:HB3	2:VG:323:VAL:HG21	2.02	0.40
1:VH:273:LEU:H	1:VH:292:GLN:HE22	1.69	0.40
1:VH:398:TYR:C	1:VH:403:MET:HB2	2.46	0.40
1:VL:242:PHE:HB2	1:VL:354:CYS:SG	2.61	0.40
2:VM:217:LEU:HD13	2:VM:367:ASP:OD2	2.21	0.40
2:WA:326:LYS:HE3	1:WB:220:PRO:N	2.37	0.40
2:WE:9:ILE:HD13	2:WE:137:VAL:HG13	2.02	0.40
2:WE:269:LEU:HD13	2:WE:301:MET:HE1	2.03	0.40
2:WE:422:ARG:HA	2:WE:422:ARG:HD2	1.73	0.40
2:WG:194:LEU:O	2:WG:198:THR:HB	2.22	0.40
1:WH:163:ILE:HG21	1:WH:250:LEU:HB3	2.02	0.40
2:WI:70:LEU:HD22	2:WI:110:ILE:HG22	2.03	0.40
2:WI:236:SER:HA	2:WI:239:THR:HG22	2.02	0.40
1:WJ:91:ILE:HG22	1:WJ:112:LEU:HD21	2.02	0.40
2:WK:142:GLY:CA	2:WK:183:GLU:HG3	2.52	0.40
2:WK:304:LYS:HD3	2:WK:304:LYS:HA	1.86	0.40
1:WL:200:MET:HE2	1:WL:200:MET:HB2	1.95	0.40
1:WL:276:ARG:NH2	14:0d:301:ILE:HD11	2.36	0.40
1:WL:323:THR:HG21	2:WM:224:TYR:CE1	2.56	0.40
8:0J:249:MET:SD	8:0J:249:MET:N	2.91	0.40
8:0J:325:GLU:OE2	8:0J:329:ARG:NH1	2.53	0.40
9:0M:164:HIS:HE1	9:0M:166:GLU:HB2	1.85	0.40
9:0N:89:ASP:OD1	9:0N:105:LEU:HG	2.21	0.40
10:0R:272:ALA:O	10:0R:275:GLN:N	2.54	0.40
10:0S:295:LEU:HA	10:0S:298:GLU:OE1	2.21	0.40
11:0U:98:VAL:HG11	11:0U:107:ALA:HA	2.03	0.40
12:0W:329:LEU:H	12:0W:329:LEU:HD23	1.86	0.40
13:0Y:140:LYS:HE3	13:0Y:140:LYS:HB2	1.88	0.40
14:0d:360:LEU:O	14:0d:364:GLN:OE1	2.39	0.40
15:0f:261:ASN:OD1	15:0f:262:PRO:HD2	2.21	0.40
16:0l:30:PHE:CD2	16:0l:98:TYR:HB2	2.56	0.40
16:0l:326:TYR:HE2	16:0l:353:PHE:HD1	1.69	0.40
16:0k:301:GLU:OE1	16:0k:319:ILE:HD12	2.22	0.40
16:0k:935:LEU:HD23	16:0k:935:LEU:HA	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:0r:70:ARG:HG2	19:0r:71:VAL:O	2.21	0.40
19:0r:193:LEU:O	19:0r:197:VAL:HG12	2.21	0.40
20:0u:112:VAL:HG22	20:0u:143:LEU:HD22	2.03	0.40
21:0x:471:HIS:CE1	21:0x:475:LEU:HD11	2.56	0.40
23:1A:180:ARG:HA	23:1A:183:ARG:NH1	2.36	0.40
23:1B:217:ARG:HH22	45:2z:184:LEU:C	2.29	0.40
23:1E:67:LEU:HD13	23:1E:67:LEU:HA	1.94	0.40
24:1I:365:THR:O	24:1I:369:MET:HG2	2.21	0.40
24:1J:339:THR:OG1	24:1J:340:ALA:N	2.54	0.40
24:1J:372:LYS:HE3	24:1J:372:LYS:HB3	1.97	0.40
24:1K:121:HIS:HB2	24:1K:130:SER:OG	2.21	0.40
26:1Q:269:TYR:CZ	26:1Q:296:ARG:HD2	2.56	0.40
26:1Q:607:HIS:ND1	26:1Q:607:HIS:O	2.54	0.40
27:1T:736:ARG:HG2	27:1T:736:ARG:H	1.73	0.40
28:1b:25:CYS:O	28:1b:27:LYS:N	2.55	0.40
22:1w:245:TYR:CE1	22:1w:249:ARG:HD3	2.55	0.40
33:2I:194:PRO:HG2	33:2I:197:VAL:CG2	2.51	0.40
34:2L:27:TYR:CB	34:2L:35:ARG:HH12	2.34	0.40
34:2L:27:TYR:HB2	34:2L:28:PRO:HD3	2.04	0.40
35:2N:167:GLU:OE2	35:2N:167:GLU:N	2.54	0.40
38:2U:108:PRO:HG3	38:2U:152:PRO:HG2	2.03	0.40
38:2V:102:ASN:OD1	38:2V:102:ASN:C	2.64	0.40
41:2e:262:ARG:HA	41:2e:262:ARG:HD2	1.85	0.40
47:3D:256:VAL:O	47:3D:259:GLU:HB2	2.20	0.40
48:3I:67:ALA:HB1	48:3I:71:ILE:HD12	2.03	0.40
57:3h:25:GLN:HB3	57:3h:29:TYR:CZ	2.55	0.40
57:3h:166:LYS:C	57:3h:167:TYR:HD2	2.29	0.40
60:3t:45:VAL:C	60:3t:47:PRO:HD3	2.46	0.40
66:5L:248:LEU:HD23	66:5L:249:LEU:N	2.36	0.40
67:5P:46:ARG:HH12	68:5T:147:GLN:CD	2.28	0.40
68:5S:94:CYS:HB3	68:5S:96:GLN:CD	2.46	0.40
1:A:3:GLU:HG2	1:A:62:ARG:NH2	2.37	0.40
2:AA:275:VAL:HG23	2:AA:368:LEU:HD11	2.04	0.40
2:AE:153:LEU:HD12	2:AE:153:LEU:HA	1.93	0.40
2:AE:241:SER:OG	2:AE:250:VAL:N	2.34	0.40
1:AF:377:MET:HG2	1:AF:380:ARG:NH2	2.36	0.40
2:AG:206:ASN:OD1	71:AG:501:GTP:O2'	2.37	0.40
1:AH:21:TRP:CD1	1:AH:85:PHE:HE1	2.40	0.40
1:AH:301:GLN:HE22	1:AH:303:ALA:HB2	1.85	0.40
2:AM:194:LEU:O	2:AM:198:THR:HB	2.22	0.40
2:BA:214:ARG:NH1	2:BA:220:GLU:OE1	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BD:207:LEU:HB3	1:BD:225:LEU:HG	2.03	0.40
1:BD:347:ASN:ND2	2:BE:178:SER:O	2.53	0.40
1:BD:357:PRO:HD2	16:0k:277:ARG:HG2	2.02	0.40
1:BF:129:CYS:SG	2:BG:96:LYS:HG3	2.61	0.40
1:BH:267:MET:HB2	1:BH:301:GLN:OE1	2.21	0.40
1:BH:359:LYS:HA	16:0l:781:ARG:NH2	2.36	0.40
1:BJ:318:ARG:HB3	1:BJ:357:PRO:HA	2.03	0.40
2:BM:2:ARG:NH1	2:BM:2:ARG:HB2	2.36	0.40
1:BN:5:VAL:HG12	1:BN:130:LEU:HD11	2.02	0.40
2:C:255:PHE:O	2:C:259:LEU:HD13	2.21	0.40
1:CA:183:TYR:O	1:CA:187:LEU:HG	2.22	0.40
2:CB:154:LEU:HD12	2:CB:197:HIS:O	2.22	0.40
2:CB:297:GLU:HG3	2:CB:299:ALA:H	1.86	0.40
2:CB:301:MET:HE1	2:CB:307:PRO:CG	2.51	0.40
1:CC:249:ASP:H	1:CC:252:LYS:HB2	1.85	0.40
2:CD:247:ALA:HB3	2:CD:355:ILE:HB	2.03	0.40
2:CF:182:VAL:HG13	2:CF:186:ASN:ND2	2.36	0.40
2:CL:238:LEU:HD11	2:CL:378:ILE:CG1	2.51	0.40
1:CM:294:PHE:CD1	1:CM:333:VAL:HG21	2.55	0.40
2:D:319:TYR:HD1	2:D:355:ILE:HG12	1.87	0.40
1:DA:267:MET:N	1:DA:369:GLY:O	2.45	0.40
1:DC:332:ASN:OD1	1:DC:336:LYS:HD3	2.20	0.40
2:DD:316:CYS:SG	2:DD:318:MET:HE3	2.61	0.40
2:DD:332:ILE:HD13	2:DD:332:ILE:HA	1.94	0.40
2:DF:36:MET:HE2	2:DF:61:HIS:CE1	2.56	0.40
2:DF:88:ASN:HB3	2:DF:90:GLU:O	2.22	0.40
2:DF:259:LEU:HD21	2:DF:378:ILE:HG13	2.02	0.40
1:DG:60:VAL:HG21	1:DG:86:ARG:NH1	2.37	0.40
1:DK:121:ARG:NH1	1:DK:158:GLU:OE2	2.54	0.40
2:DL:127:ASP:OD1	2:DL:127:ASP:C	2.64	0.40
2:DL:177:VAL:CG1	2:DL:207:GLU:HB3	2.49	0.40
2:DL:319:TYR:HD1	2:DL:375:VAL:HB	1.85	0.40
1:DM:241:ARG:HH11	1:DM:241:ARG:HG3	1.86	0.40
1:DM:284:LEU:O	1:DM:362:LYS:NZ	2.43	0.40
1:E:101:TRP:HD1	1:E:145:SER:OG	2.03	0.40
1:E:310:TYR:CD1	1:E:371:ASN:HB2	2.56	0.40
1:E:331:LEU:O	1:E:334:GLN:HB2	2.22	0.40
1:E:395:LEU:HD12	1:E:395:LEU:HA	1.79	0.40
2:EA:326:LYS:HE3	1:EB:208:TYR:HB3	2.03	0.40
1:EB:46:ARG:O	1:EB:49:VAL:HG12	2.21	0.40
1:EB:229:VAL:O	1:EB:233:MET:HG3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EH:293:MET:HE3	1:EH:294:PHE:CE2	2.56	0.40
1:EH:299:MET:HG3	1:EH:301:GLN:H	1.86	0.40
1:EJ:200:MET:HE3	1:EJ:200:MET:HB3	1.98	0.40
1:EL:11:GLN:HG2	1:EL:12:CYS:N	2.36	0.40
2:FA:195:LEU:HD11	2:FA:428:LEU:HD11	2.03	0.40
1:FB:105:HIS:ND1	1:FB:146:GLY:O	2.50	0.40
1:FD:356:ILE:HD12	28:4W:74:PHE:HA	2.04	0.40
1:FF:256:ASN:HD21	2:FG:101:ASN:HD22	1.68	0.40
1:FF:421:GLU:HA	1:FF:424:GLN:HG2	2.03	0.40
1:FH:330:MET:HA	1:FH:333:VAL:HG12	2.03	0.40
2:FI:75:VAL:HB	2:FI:94:SER:HB3	2.03	0.40
1:G:68:LEU:H	1:G:143:THR:HG21	1.85	0.40
1:G:326:VAL:HG11	1:G:353:ILE:HD11	2.03	0.40
2:GA:214:ARG:NH1	59:4O:105:GLY:HA3	2.35	0.40
1:GB:149:THR:HA	1:GB:152:ILE:HD12	2.02	0.40
1:GB:161:ASP:O	1:GB:251:ARG:NH2	2.53	0.40
2:GE:109:THR:OG1	2:GE:110:ILE:N	2.55	0.40
2:GE:187:CYS:O	2:GE:191:THR:OG1	2.35	0.40
1:GF:226:ASN:HA	1:GF:229:VAL:HG22	2.01	0.40
1:GF:267:MET:HE1	1:GF:371:ASN:CB	2.52	0.40
1:GF:317:PHE:HB3	1:GF:321:MET:HE1	2.04	0.40
1:GH:198:GLU:HB2	1:GH:266:PHE:CE1	2.55	0.40
2:GI:217:LEU:HD23	2:GI:217:LEU:HA	1.83	0.40
2:GK:313:MET:HE2	2:GK:313:MET:HB3	1.91	0.40
1:GL:113:ILE:HG12	1:GL:117:LEU:HD23	2.04	0.40
1:GL:155:LEU:HB3	1:GL:164:MET:HE1	2.04	0.40
1:GL:182:PRO:HB3	1:GL:385:PHE:HB2	2.03	0.40
1:H:33:THR:O	1:H:58:ARG:NH2	2.55	0.40
1:H:138:SER:HA	1:H:169:VAL:H	1.86	0.40
2:HA:68:LEU:HD23	2:HA:93:VAL:HB	2.02	0.40
2:HC:115:VAL:HG22	2:HC:119:LEU:HD23	2.04	0.40
2:HG:91:GLN:H	2:HG:121:ARG:NH1	2.19	0.40
1:HH:25:SER:HB2	1:HH:81:TYR:HE2	1.86	0.40
1:HH:66:MET:HE3	1:HH:147:MET:HG3	2.02	0.40
1:HJ:330:MET:HE2	1:HJ:330:MET:HB2	1.99	0.40
1:HL:209:ASP:O	1:HL:213:ARG:HG2	2.22	0.40
1:I:118:ASP:O	1:I:121:ARG:HG2	2.22	0.40
1:I:129:CYS:SG	2:IA:96:LYS:HD2	2.61	0.40
2:IA:288:VAL:HA	2:IA:291:ILE:HG12	2.04	0.40
1:IB:101:TRP:NE1	1:IB:188:SER:OG	2.54	0.40
1:IB:183:TYR:HE2	1:IB:388:MET:HE3	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IB:322:SER:HB2	2:IC:221:ARG:HG3	2.03	0.40
2:IC:139:HIS:NE2	2:IC:194:LEU:HD21	2.37	0.40
2:IC:237:SER:HA	2:IC:320:ARG:HD2	2.03	0.40
2:IC:315:CYS:HB2	2:IC:351:PHE:CD1	2.57	0.40
1:ID:74:ASP:HA	1:ID:77:ARG:HG2	2.03	0.40
1:ID:304:ASP:OD2	1:ID:306:ARG:NH2	2.55	0.40
2:II:309:HIS:HB3	2:II:386:GLU:OE2	2.21	0.40
1:IJ:253:LEU:HD11	1:IJ:316:LEU:HD21	2.04	0.40
1:JC:86:ARG:HG3	1:KC:281:TYR:HB3	2.03	0.40
1:JE:166:THR:HG21	1:JE:192:LEU:HD22	2.03	0.40
1:JE:302:ALA:HB3	1:JE:377:MET:HE3	2.04	0.40
2:JF:251:ASP:N	2:JF:254:GLU:HB3	2.34	0.40
1:JG:31:ASP:OD2	1:JG:37:GLN:NE2	2.54	0.40
1:JG:273:LEU:HD23	1:JG:273:LEU:HA	1.93	0.40
2:JH:142:GLY:HA3	2:JH:183:GLU:HG3	2.02	0.40
1:JI:270:PHE:O	1:JI:298:ASN:ND2	2.43	0.40
2:JJ:426:ALA:HA	2:JJ:429:GLU:OE1	2.21	0.40
1:JK:279:GLN:NE2	52:3U:215:VAL:O	2.54	0.40
1:KA:74:ASP:CG	49:3P:552:ARG:HD2	2.47	0.40
1:KC:334:GLN:HE22	1:KC:347:ASN:HA	1.86	0.40
2:KD:305:CYS:SG	2:KD:384:ILE:HA	2.61	0.40
2:KF:88:ASN:ND2	2:KF:90:GLU:OE2	2.55	0.40
2:KF:325:PRO:O	2:KF:328:VAL:HG22	2.21	0.40
2:KH:114:ILE:HD13	35:2N:256:TRP:CH2	2.57	0.40
1:KI:211:CYS:HB3	1:KI:220:PRO:HG2	2.04	0.40
2:KJ:396:ASP:CG	2:KJ:422:ARG:HE	2.30	0.40
1:KK:58:ARG:NH2	1:LK:280:GLN:OE1	2.55	0.40
2:KL:79:ARG:HG3	2:KL:92:LEU:HD23	2.03	0.40
1:KM:85:PHE:HB2	1:KM:90:PHE:CE1	2.56	0.40
2:KN:215:ARG:HG3	2:KN:216:SER:N	2.36	0.40
2:KN:397:LEU:HD23	2:KN:397:LEU:HA	1.94	0.40
2:L:205:ASP:OD1	2:L:303:THR:HA	2.21	0.40
2:L:279:GLU:HA	2:L:282:TYR:CE1	2.57	0.40
1:LA:286:VAL:O	1:LA:290:THR:HG23	2.21	0.40
1:LA:345:ILE:HD11	2:LB:404:PHE:HE2	1.86	0.40
2:LB:345:ASP:OD1	2:LB:346:TRP:N	2.54	0.40
2:LB:420:GLU:HA	2:LB:423:GLU:CG	2.49	0.40
2:LD:110:ILE:O	2:LD:113:GLU:HG2	2.21	0.40
2:LF:176:GLN:OE1	22:1x:78:VAL:HG11	2.21	0.40
2:LF:247:ALA:HB3	2:LF:355:ILE:HB	2.04	0.40
2:LF:349:THR:OG1	2:LF:350:GLY:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LG:215:LEU:HD23	1:LG:217:LEU:HD11	2.02	0.40
2:LH:156:ARG:HA	2:LH:159:VAL:HG12	2.03	0.40
2:LJ:102:ASN:HB3	2:LJ:105:ARG:HB3	2.04	0.40
2:LJ:170:THR:HG21	2:LJ:194:LEU:HD11	2.04	0.40
2:LJ:194:LEU:O	2:LJ:198:THR:CB	2.69	0.40
1:LM:31:ASP:OD1	1:LM:35:THR:N	2.55	0.40
2:LN:36:MET:HG2	2:LN:61:HIS:NE2	2.36	0.40
2:LN:136:MET:HE3	2:LN:239:THR:HG21	2.01	0.40
2:LN:405:VAL:O	2:LN:409:VAL:HG23	2.22	0.40
2:MA:273:ALA:HB3	2:MA:295:VAL:HG23	2.03	0.40
1:MB:178:THR:HB	1:MB:181:GLU:CG	2.48	0.40
2:MC:42:ILE:HD11	45:2y:217:ARG:HH12	1.86	0.40
2:MC:142:GLY:HA2	2:MC:183:GLU:HG3	2.03	0.40
1:MD:299:MET:HE1	1:MD:367:PHE:HE2	1.85	0.40
2:ME:346:TRP:O	1:MF:388:MET:HG2	2.21	0.40
2:ME:433:GLU:O	33:2G:156:THR:HG21	2.21	0.40
1:MF:163:ILE:CG1	1:MF:251:ARG:HB2	2.40	0.40
2:MG:234:VAL:HG21	2:MG:302:LEU:HD11	2.03	0.40
2:MI:62:VAL:HG11	2:MI:88:ASN:HD22	1.86	0.40
2:MI:70:LEU:HD23	2:MI:70:LEU:HA	1.92	0.40
1:MJ:21:TRP:CZ3	1:MJ:50:TYR:HB3	2.57	0.40
1:ML:113:ILE:HD12	1:ML:113:ILE:HA	1.95	0.40
2:MM:11:GLN:O	2:MM:15:GLN:HG3	2.21	0.40
1:MN:263:LEU:HD22	1:MN:422:TYR:CE1	2.56	0.40
1:N:345:ILE:HD11	2:NA:404:PHE:CE2	2.57	0.40
2:NA:60:LYS:HE2	2:NA:60:LYS:HB2	1.87	0.40
2:NC:217:LEU:HB3	2:NC:219:ILE:HG12	2.03	0.40
1:ND:65:LEU:HB3	1:ND:73:MET:HE1	2.02	0.40
1:ND:187:LEU:HD11	1:ND:408:PHE:CZ	2.57	0.40
1:NF:46:ARG:HA	1:NF:46:ARG:HD3	1.75	0.40
1:NF:325:GLU:HA	1:NF:328:GLU:HB3	2.04	0.40
1:NF:341:PHE:HB3	1:NF:348:ASN:OD1	2.21	0.40
2:NG:209:ILE:HD12	2:NG:209:ILE:H	1.86	0.40
1:NH:307:HIS:HB3	1:NH:376:GLU:OE2	2.22	0.40
1:NH:330:MET:O	1:NH:334:GLN:HG2	2.21	0.40
1:NJ:204:ASN:OD1	69:NJ:500:GDP:O2'	2.34	0.40
1:NJ:253:LEU:O	1:NJ:257:LEU:HB2	2.21	0.40
1:NJ:289:LEU:HD13	1:NJ:365:VAL:HG12	2.04	0.40
2:NK:13:GLY:HA2	2:NK:16:VAL:HG12	2.03	0.40
2:NK:91:GLN:HA	2:NK:121:ARG:HD2	2.03	0.40
1:NL:267:MET:O	1:NL:368:ILE:HD12	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:181:GLU:O	1:O:185:THR:HG23	2.22	0.40
1:O:203:ASP:HB3	1:O:301:GLN:HA	2.04	0.40
2:OA:152:LEU:HD12	2:OA:152:LEU:HA	1.94	0.40
2:OA:421:ALA:O	2:OA:425:LEU:HD23	2.20	0.40
1:OB:362:LYS:HB2	1:OB:362:LYS:HE2	1.96	0.40
1:OB:395:LEU:HD12	1:OB:398:TYR:HB2	2.03	0.40
2:OC:213:THR:HB	2:OC:222:PRO:HG3	2.03	0.40
1:OD:14:ASN:CG	1:OD:73:MET:HE1	2.46	0.40
1:OD:232:VAL:HG21	1:OD:300:MET:SD	2.61	0.40
2:OG:21:TRP:CZ2	2:OG:65:CYS:HB3	2.57	0.40
2:OG:203:MET:O	2:OG:204:LEU:HD23	2.22	0.40
2:OK:134:GLY:HA3	2:OK:165:SER:O	2.20	0.40
2:OK:139:HIS:O	2:OK:170:THR:HA	2.21	0.40
1:OL:36:TYR:CD2	1:OL:44:LEU:HD21	2.56	0.40
1:OL:171:PRO:HG2	1:OL:181:GLU:CD	2.47	0.40
1:OL:173:PRO:CG	1:OL:384:GLN:HE22	2.24	0.40
1:OL:288:GLU:O	1:OL:292:GLN:HG2	2.22	0.40
1:OL:388:MET:HE1	1:OL:394:PHE:CD1	2.56	0.40
2:OM:241:SER:HA	2:OM:356:ASN:OD1	2.22	0.40
1:P:101:TRP:NE1	1:P:146:GLY:HA3	2.36	0.40
1:P:333:VAL:O	1:P:337:ASN:HB2	2.21	0.40
1:PB:137:HIS:HE1	1:PB:139:LEU:HD21	1.87	0.40
1:PB:242:PHE:HB2	1:PB:354:CYS:SG	2.62	0.40
1:PB:249:ASP:O	1:PB:253:LEU:HG	2.21	0.40
1:PD:344:TRP:CZ3	2:PE:403:ALA:HB2	2.56	0.40
1:PH:164:MET:H	1:PH:197:ASP:HB2	1.87	0.40
1:PH:330:MET:O	1:PH:334:GLN:HG3	2.21	0.40
1:PH:378:PHE:HE2	1:PH:418:LEU:HD23	1.85	0.40
2:PI:22:GLU:OE2	2:PI:229:ARG:NE	2.49	0.40
1:PJ:232:VAL:HG21	1:PJ:300:MET:CE	2.47	0.40
2:PM:104:ALA:O	2:PM:108:TYR:HB2	2.21	0.40
2:PM:271:SER:HA	2:PM:301:MET:HA	2.04	0.40
2:PM:311:LYS:HE2	2:PM:342:GLN:HB3	2.03	0.40
1:QA:24:ILE:HD13	1:QA:24:ILE:HA	1.97	0.40
1:QA:37:GLN:N	1:QA:37:GLN:OE1	2.54	0.40
1:QA:240:LEU:HD11	1:QA:249:ASP:HA	2.03	0.40
1:QA:310:TYR:HE2	59:4a:139:PHE:CZ	2.39	0.40
1:QA:389:PHE:C	1:QA:392:LYS:H	2.30	0.40
1:QG:12:CYS:O	1:QG:16:ILE:HG12	2.20	0.40
2:QH:203:MET:CE	2:QH:384:ILE:HD11	2.51	0.40
1:QI:345:ILE:HD13	2:QJ:404:PHE:HE2	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QJ:270:THR:OG1	2:QJ:302:LEU:HB2	2.21	0.40
2:QL:105:ARG:HG3	2:QL:109:THR:OG1	2.21	0.40
2:R:430:LYS:O	2:R:434:GLU:CB	2.70	0.40
2:RB:152:LEU:HD12	2:RB:152:LEU:HA	1.90	0.40
1:RC:252:LYS:HG2	1:RC:350:LYS:HE3	2.03	0.40
1:RC:320:ARG:HD2	1:RC:355:ASP:OD1	2.20	0.40
2:RD:392:ASP:OD1	2:RD:393:HIS:N	2.54	0.40
1:RG:46:ARG:HH21	2:RH:73:THR:HA	1.86	0.40
1:RG:139:LEU:HD22	1:RG:188:SER:HB2	2.04	0.40
2:RH:318:MET:O	2:RH:375:VAL:HA	2.20	0.40
1:RI:2:ARG:HH11	2:RJ:72:PRO:HD2	1.85	0.40
2:RJ:174:SER:HB3	2:RJ:206:ASN:H	1.86	0.40
2:RL:99:ALA:HA	2:RL:110:ILE:HD11	2.03	0.40
1:S:13:GLY:HA2	1:S:16:ILE:HG22	2.03	0.40
2:SC:228:ASN:HA	2:SC:231:ILE:HD13	2.03	0.40
2:SC:339:ARG:HH12	55:3b:144:PRO:CD	2.32	0.40
2:SE:23:LEU:O	2:SE:27:GLU:HG3	2.20	0.40
1:SF:22:GLU:HG2	1:SF:81:TYR:CD1	2.57	0.40
2:SG:175:PRO:HG2	2:SG:207:GLU:OE1	2.21	0.40
2:SI:395:PHE:CD2	2:SI:422:ARG:HD3	2.56	0.40
1:SJ:163:ILE:HA	1:SJ:197:ASP:OD2	2.21	0.40
2:SK:22:GLU:O	2:SK:26:LEU:HD23	2.22	0.40
1:T:87:PRO:HA	1:T:90:PHE:CD2	2.55	0.40
1:TB:347:ASN:O	2:TC:181:VAL:HG12	2.21	0.40
1:TD:3:GLU:HA	1:TD:49:VAL:HA	2.02	0.40
1:TF:67:ASP:OD1	1:TF:68:LEU:N	2.55	0.40
1:TF:163:ILE:HG12	1:TF:251:ARG:HE	1.86	0.40
1:TF:187:LEU:HA	1:TF:190:HIS:CE1	2.56	0.40
1:TJ:203:ASP:HB3	1:TJ:302:ALA:H	1.87	0.40
1:TL:117:LEU:HD21	1:TL:154:LYS:HZ2	1.86	0.40
2:UA:110:ILE:O	2:UA:113:GLU:HG2	2.22	0.40
2:UA:204:LEU:HD13	2:UA:231:ILE:HD13	2.02	0.40
2:UA:320:ARG:O	2:UA:373:ARG:HA	2.21	0.40
1:UB:73:MET:HG3	1:UB:92:PHE:HB3	2.01	0.40
2:UC:170:THR:HG21	2:UC:194:LEU:HD21	2.03	0.40
1:UD:92:PHE:O	30:1o:29:MET:HE3	2.22	0.40
1:UD:143:THR:HG22	69:UD:500:GDP:O2B	2.22	0.40
1:UD:178:THR:HB	1:UD:181:GLU:HG3	2.03	0.40
1:UD:391:ARG:HG3	1:UD:391:ARG:NH1	2.36	0.40
2:UE:190:SER:O	2:UE:194:LEU:HD23	2.21	0.40
2:UE:276:VAL:HG13	2:UE:369:ALA:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UF:237:THR:HG22	1:UF:250:LEU:HD21	2.03	0.40
2:UG:60:LYS:HE2	2:UG:60:LYS:HB3	1.90	0.40
2:UI:311:LYS:H	2:UI:382:THR:HG1	1.69	0.40
1:UJ:2:ARG:NH1	2:UK:72:PRO:HD2	2.37	0.40
2:UK:288:VAL:HG11	2:UK:323:VAL:HG13	2.04	0.40
1:UL:310:TYR:HA	1:UL:371:ASN:HA	2.03	0.40
1:V:380:ARG:O	1:V:383:GLU:N	2.54	0.40
2:VA:184:PRO:O	2:VA:188:VAL:HG13	2.22	0.40
2:VA:201:ALA:O	2:VA:268:VAL:HG22	2.22	0.40
2:VA:275:VAL:O	2:VA:275:VAL:HG13	2.21	0.40
1:VB:180:VAL:HG23	1:VB:184:ASN:HD21	1.85	0.40
2:VC:196:GLU:HG3	2:VC:197:HIS:CD2	2.56	0.40
1:VF:170:ILE:HD11	1:VF:301:GLN:OE1	2.20	0.40
1:VJ:2:ARG:O	1:VJ:49:VAL:HG23	2.21	0.40
2:VK:161:TYR:O	2:VK:164:LYS:HG2	2.21	0.40
1:VL:221:THR:O	1:VL:225:LEU:HG	2.21	0.40
2:VM:103:TYR:CE1	2:VM:148:GLY:HA2	2.56	0.40
2:VM:269:LEU:N	2:VM:379:ALA:O	2.50	0.40
2:VM:345:ASP:OD1	2:VM:345:ASP:N	2.53	0.40
1:W:290:THR:O	1:W:293:MET:HB3	2.22	0.40
1:W:293:MET:HE3	1:W:293:MET:HB2	1.80	0.40
1:WB:175:VAL:HG12	1:WB:175:VAL:O	2.20	0.40
1:WB:350:LYS:HD3	2:WC:180:ALA:HA	2.04	0.40
2:WE:41:CYS:O	9:0M:233:VAL:HG11	2.21	0.40
2:WE:173:PRO:HG3	2:WE:183:GLU:HG2	2.04	0.40
2:WG:6:CYS:O	2:WG:65:CYS:HA	2.21	0.40
1:WH:191:GLN:O	1:WH:195:ASN:ND2	2.43	0.40
2:WK:67:PHE:HB2	2:WK:92:LEU:HD12	2.02	0.40
2:WK:296:PHE:CZ	2:WK:377:MET:HE1	2.56	0.40
1:WL:252:LYS:HG2	1:WL:350:LYS:HE2	2.04	0.40
1:WL:330:MET:HE2	1:WL:349:ILE:HG21	2.02	0.40
2:WM:271:SER:HB3	2:WM:301:MET:HG2	2.02	0.40
2:WM:428:LEU:HG	2:WM:432:TYR:CZ	2.56	0.40
3:XE:75:PHE:CE2	3:XE:171:LEU:HG	2.56	0.40
5:XN:46:LYS:HE3	9:0L:397:SER:O	2.22	0.40
4:XQ:27:GLY:N	4:XQ:170:GLU:OE2	2.50	0.40
6:0:233:THR:HA	6:0:236:ARG:NH1	2.36	0.40
7:0C:382:VAL:HG23	7:0C:398:PHE:CE1	2.56	0.40
8:0G:141:ILE:HG21	8:0H:471:PHE:CE2	2.57	0.40
8:0G:229:ARG:CZ	8:0G:229:ARG:HB2	2.52	0.40
8:0I:39:ILE:HD12	13:0Z:207:TRP:CH2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:0L:323:HIS:NE2	9:0L:342:THR:OG1	2.43	0.40
9:0M:41:ALA:HB3	9:0M:592:SER:HB2	2.03	0.40
9:0N:55:GLU:C	9:0N:56:PHE:HD2	2.29	0.40
9:0N:330:ILE:CD1	9:0N:342:THR:HG22	2.51	0.40
9:0N:591:HIS:CD2	9:0N:595:ILE:HG12	2.56	0.40
9:0O:161:PHE:CE1	9:0O:169:ILE:HD11	2.56	0.40
11:0U:270:GLU:HB2	11:0U:330:PHE:CE2	2.56	0.40
15:0f:229:SER:OG	15:0f:230:ILE:N	2.54	0.40
16:0l:404:ARG:HG2	16:0l:484:VAL:HA	2.04	0.40
16:0l:461:LYS:HD2	16:0l:462:TYR:CE1	2.57	0.40
16:0l:650:VAL:O	16:0l:654:VAL:HG23	2.22	0.40
16:0l:653:ASN:C	16:0l:653:ASN:HD22	2.28	0.40
16:0l:804:PHE:CE2	16:0l:808:ILE:HD11	2.56	0.40
16:0k:290:MET:HB3	16:0k:292:THR:HG23	2.03	0.40
17:0n:384:LYS:HE2	38:2U:266:ILE:HG21	2.03	0.40
20:0t:193:ASP:HA	20:0t:213:ILE:HD12	2.03	0.40
21:0w:217:ASN:HA	21:0w:220:GLU:OE2	2.21	0.40
22:0z:84:HIS:CE1	22:0z:87:SER:CA	3.05	0.40
21:0v:87:LEU:HD23	21:0v:87:LEU:HA	1.94	0.40
23:1B:252:VAL:O	23:1B:256:GLU:HG3	2.21	0.40
24:1H:539:LEU:HD11	24:1H:546:LEU:HD23	2.04	0.40
24:1H:603:ALA:O	24:1H:607:MET:HB2	2.21	0.40
24:1H:733:MET:HE3	24:1H:733:MET:HB3	1.88	0.40
24:1I:30:ARG:NH2	40:2Z:370:LEU:HB2	2.37	0.40
24:1I:295:SER:HB2	24:1I:297:ARG:NH1	2.37	0.40
24:1I:359:HIS:CB	24:1I:384:ALA:HB2	2.51	0.40
24:1J:148:LYS:H	24:1J:148:LYS:HG2	1.67	0.40
24:1J:517:GLU:OE2	24:1J:587:ARG:NE	2.40	0.40
24:1K:670:ARG:O	24:1K:673:PHE:HB2	2.21	0.40
24:1K:691:SER:O	24:1K:695:LYS:HG2	2.21	0.40
25:1O:671:GLN:HA	25:1O:674:LEU:HD12	2.03	0.40
27:1S:535:LYS:HD3	27:1S:562:ASP:OD2	2.21	0.40
27:1T:719:GLU:HB3	27:1T:723:LYS:HZ1	1.86	0.40
28:1d:236:CYS:HB3	28:1d:239:THR:HG23	2.03	0.40
28:1e:48:VAL:O	28:1e:50:LYS:HG3	2.21	0.40
30:1o:168:THR:O	30:1o:172:ARG:HG3	2.20	0.40
31:1r:221:TYR:CZ	31:1r:225:MET:HE3	2.57	0.40
31:1t:258:LEU:HA	31:1t:261:GLN:OE1	2.21	0.40
22:1w:175:SER:O	22:1w:179:LEU:HD23	2.22	0.40
22:1x:55:PRO:HG3	35:2N:232:PRO:HD2	2.03	0.40
33:2G:34:ASN:O	33:2G:37:GLU:HG2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:2G:230:ARG:HB2	33:2G:233:HIS:ND1	2.37	0.40
33:2H:83:ILE:HB	33:2H:95:PHE:HB2	2.03	0.40
33:2H:127:THR:O	33:2H:130:ARG:HG2	2.20	0.40
33:2I:53:LYS:HE3	33:2I:55:PHE:CE1	2.51	0.40
35:2N:244:ARG:NH1	35:2N:244:ARG:HB2	2.36	0.40
35:2O:42:ALA:O	35:2O:45:HIS:HB2	2.21	0.40
37:2S:199:ARG:CB	54:3Z:325:GLN:HB3	2.52	0.40
41:2b:135:PRO:HA	41:2b:136:PRO:HD3	1.96	0.40
41:2c:243:LYS:HB3	41:2c:243:LYS:HE2	1.76	0.40
41:2o:356:VAL:O	41:2o:360:LEU:HG	2.22	0.40
43:2t:282:ARG:HB2	43:2t:286:ASP:HB2	2.04	0.40
44:2v:353:GLU:HG2	44:2v:354:LYS:N	2.36	0.40
44:2v:382:TYR:HD1	44:2v:382:TYR:HA	1.78	0.40
44:2w:210:ILE:HG22	44:2w:213:MET:CE	2.45	0.40
46:3B:361:PHE:HB3	46:3B:370:VAL:HG21	2.02	0.40
48:3H:106:LEU:O	48:3H:110:GLU:OE1	2.38	0.40
56:3d:196:ARG:NH1	56:3d:197:ARG:O	2.55	0.40
64:5B:103:ARG:O	64:5B:107:GLU:HG3	2.22	0.40
64:5B:170:GLN:O	64:5B:174:THR:HG22	2.22	0.40
65:5H:187:HIS:HA	65:5H:190:LYS:HE3	2.03	0.40
1:A:317:PHE:HB3	1:A:321:MET:CE	2.52	0.40
1:AB:185:THR:O	1:AB:189:VAL:HG23	2.21	0.40
1:AB:350:LYS:HA	2:AC:179:THR:O	2.20	0.40
2:AE:36:MET:HG3	2:AE:61:HIS:CE1	2.56	0.40
2:AE:195:LEU:HD11	2:AE:428:LEU:HD22	2.04	0.40
2:AE:208:ALA:HB2	2:AE:304:LYS:N	2.36	0.40
1:AF:161:ASP:OD1	1:AF:162:ARG:NH1	2.55	0.40
1:AF:322:SER:O	1:AF:326:VAL:HG23	2.22	0.40
1:AH:21:TRP:NE1	1:AH:63:ALA:HB2	2.37	0.40
1:AH:203:ASP:OD2	1:AH:302:ALA:HB3	2.21	0.40
2:AI:265:ILE:HG23	2:AI:432:TYR:CE1	2.56	0.40
1:AJ:101:TRP:NE1	1:AJ:188:SER:OG	2.53	0.40
1:AJ:140:GLY:HA3	1:AJ:171:PRO:HG3	2.03	0.40
1:AJ:173:PRO:HG3	1:AJ:384:GLN:NE2	2.37	0.40
1:AL:202:ILE:HD12	1:AL:229:VAL:HG22	2.04	0.40
1:AN:404:ASP:HB3	1:AN:407:GLU:HG3	2.04	0.40
1:B:359:LYS:HA	16:0k:781:ARG:NH2	2.34	0.40
2:BA:254:GLU:HG3	2:BA:352:LYS:HE3	2.03	0.40
1:BB:167:PHE:CG	1:BB:233:MET:HE2	2.57	0.40
1:BB:175:VAL:HG12	1:BB:175:VAL:O	2.20	0.40
1:BB:186:THR:HA	1:BB:189:VAL:HG12	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BC:223:SER:OG	2:BC:224:TYR:N	2.49	0.40
2:BC:275:VAL:O	2:BC:275:VAL:HG23	2.22	0.40
2:BE:392:ASP:OD1	2:BE:393:HIS:N	2.54	0.40
1:BH:289:LEU:HD11	1:BH:363:MET:HG2	2.02	0.40
1:BH:406:MET:O	1:BH:409:THR:OG1	2.28	0.40
2:BI:189:LEU:HD13	2:BI:413:MET:HE1	2.04	0.40
2:BI:213:THR:HG21	2:BI:222:PRO:HB3	2.03	0.40
1:BJ:201:CYS:HB3	1:BJ:301:GLN:NE2	2.35	0.40
1:BL:53:GLU:HG2	16:0l:429:TYR:OH	2.22	0.40
1:BL:377:MET:HA	1:BL:380:ARG:HG2	2.03	0.40
1:BN:21:TRP:CZ3	1:BN:61:PRO:HB3	2.56	0.40
1:BN:406:MET:HA	1:BN:409:THR:HG22	2.03	0.40
2:C:241:SER:HB2	2:C:250:VAL:H	1.86	0.40
2:C:329:ASN:ND2	1:CA:175:VAL:HG22	2.36	0.40
1:CA:107:THR:HG21	1:CA:401:GLU:HB3	2.02	0.40
1:CA:110:ALA:O	1:CA:113:ILE:HG22	2.22	0.40
1:CA:215:LEU:HD21	1:CA:273:LEU:HD23	2.03	0.40
1:CA:272:PRO:C	1:CA:273:LEU:HD12	2.47	0.40
2:CB:156:ARG:HA	2:CB:159:VAL:HG12	2.04	0.40
1:CC:252:LYS:HD3	2:CD:100:ALA:HA	2.02	0.40
1:CC:347:ASN:HD22	1:CC:347:ASN:C	2.29	0.40
2:CD:184:PRO:HG3	2:CD:394:LYS:HG2	2.04	0.40
1:CE:203:ASP:CB	1:CE:302:ALA:H	2.35	0.40
2:CF:258:ASN:ND2	2:CF:352:LYS:HG3	2.35	0.40
1:CG:32:PRO:HG3	1:CG:81:TYR:CD1	2.57	0.40
1:CG:32:PRO:HG3	1:CG:81:TYR:CE1	2.56	0.40
1:CG:202:ILE:HD12	1:CG:229:VAL:HG22	2.02	0.40
1:CG:220:PRO:HA	25:1O:348:GLN:NE2	2.37	0.40
2:CJ:53:PHE:HB3	2:CJ:61:HIS:HB3	2.02	0.40
2:CJ:346:TRP:CD1	1:CK:391:ARG:HG3	2.57	0.40
1:CK:227:HIS:NE2	24:1J:326:SER:O	2.53	0.40
1:CK:249:ASP:O	1:CK:253:LEU:HG	2.21	0.40
2:CL:6:CYS:O	2:CL:65:CYS:HA	2.21	0.40
1:CM:10:GLY:O	1:CM:14:ASN:ND2	2.54	0.40
1:CM:65:LEU:HB3	1:CM:73:MET:HE1	2.03	0.40
1:DA:246:LEU:HD22	1:DA:352:SER:HA	2.04	0.40
2:DD:64:ARG:HD3	2:DD:129:CYS:SG	2.61	0.40
2:DD:137:VAL:HG11	2:DD:154:LEU:HD21	2.03	0.40
1:DE:167:PHE:CD2	1:DE:233:MET:HE3	2.55	0.40
2:DF:378:ILE:HG13	2:DF:378:ILE:O	2.22	0.40
1:DG:165:MET:HA	1:DG:198:GLU:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DH:19:ALA:HA	2:DH:22:GLU:HG2	2.04	0.40
2:DH:137:VAL:HG21	2:DH:154:LEU:HD21	2.03	0.40
1:DK:295:ASP:OD1	1:DK:297:LYS:HG2	2.22	0.40
2:DL:388:PHE:HA	2:DL:391:ILE:HG22	2.04	0.40
1:DM:304:ASP:CG	1:DM:307:HIS:HD1	2.28	0.40
1:E:249:ASP:OD1	1:E:252:LYS:HB2	2.21	0.40
2:EA:292:THR:O	2:EA:295:VAL:HG12	2.22	0.40
1:EB:12:CYS:HB2	69:EB:500:GDP:C8	2.56	0.40
1:EB:36:TYR:CD2	1:EB:44:LEU:HD21	2.56	0.40
1:EB:131:GLN:HG2	1:EB:240:LEU:HD11	2.03	0.40
2:EC:251:ASP:N	2:EC:254:GLU:HB2	2.37	0.40
2:EC:252:LEU:HD13	2:EC:255:PHE:HE1	1.86	0.40
2:EC:270:THR:O	2:EC:301:MET:HG3	2.22	0.40
2:EE:156:ARG:HA	2:EE:159:VAL:HG12	2.04	0.40
2:EE:234:VAL:HG21	2:EE:302:LEU:CD1	2.51	0.40
2:EG:117:LEU:HD23	2:EG:117:LEU:H	1.86	0.40
2:EG:149:LEU:HD12	2:EG:149:LEU:HA	1.80	0.40
1:EH:16:ILE:HD12	1:EH:226:ASN:HB3	2.03	0.40
1:EH:237:THR:HG22	1:EH:250:LEU:HD21	2.03	0.40
1:EH:273:LEU:HB2	1:EH:292:GLN:NE2	2.36	0.40
2:EI:316:CYS:SG	2:EI:318:MET:HE3	2.62	0.40
1:EL:260:PHE:HB2	1:EL:263:LEU:HG	2.03	0.40
1:F:46:ARG:HD3	1:F:46:ARG:HA	1.96	0.40
1:FB:323:THR:HA	1:FB:326:VAL:HG12	2.02	0.40
1:FD:179:VAL:O	1:FD:388:MET:HE1	2.21	0.40
1:FD:336:LYS:HZ3	63:4I:314:LYS:HD3	1.87	0.40
1:FF:296:ALA:HB2	63:4I:277:PHE:HB3	2.03	0.40
1:FF:343:GLU:O	1:FF:346:PRO:HD3	2.22	0.40
1:FF:347:ASN:C	1:FF:347:ASN:HD22	2.28	0.40
2:FG:214:ARG:NE	63:4I:261:ARG:HH22	2.19	0.40
1:FH:263:LEU:HD22	1:FH:422:TYR:CE1	2.57	0.40
2:FI:90:GLU:O	2:FI:91:GLN:HB3	2.21	0.40
1:FL:250:LEU:HD13	1:FL:250:LEU:HA	1.94	0.40
1:G:324:LYS:NZ	2:GA:221:ARG:HA	2.31	0.40
2:GC:205:ASP:OD1	2:GC:205:ASP:N	2.51	0.40
1:GD:67:ASP:OD1	1:GD:68:LEU:N	2.53	0.40
2:GE:240:ALA:C	2:GE:356:ASN:HD21	2.29	0.40
1:GF:77:ARG:HA	1:GF:77:ARG:HD2	1.92	0.40
1:GH:132:GLY:HA2	1:GH:162:ARG:HB3	2.04	0.40
2:GI:250:VAL:HG21	2:GI:318:MET:HE1	2.03	0.40
2:GI:326:LYS:HE2	1:GJ:212:PHE:CE1	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GJ:386:THR:O	1:GJ:390:ARG:HG3	2.21	0.40
2:GK:152:LEU:HA	2:GK:152:LEU:HD12	1.86	0.40
2:HA:7:ILE:HG22	2:HA:9:ILE:HG12	2.04	0.40
2:HA:21:TRP:CZ2	2:HA:65:CYS:HB3	2.55	0.40
1:HB:3:GLU:H	1:HB:3:GLU:HG2	1.33	0.40
2:HC:2:ARG:HD3	1:HD:70:PRO:HD2	2.04	0.40
1:HF:143:THR:O	1:HF:147:MET:HB3	2.21	0.40
2:HG:152:LEU:O	2:HG:156:ARG:HG2	2.22	0.40
2:HG:167:LEU:HD11	2:HG:252:LEU:HD22	2.03	0.40
1:HH:316:LEU:HB2	1:HH:366:THR:CG2	2.52	0.40
1:HJ:137:HIS:HB2	1:HJ:144:GLY:O	2.22	0.40
1:HJ:207:LEU:HD22	1:HJ:300:MET:HB2	2.02	0.40
2:HK:322:ASP:C	2:HK:322:ASP:OD2	2.65	0.40
2:HM:265:ILE:HG22	2:HM:432:TYR:CE1	2.57	0.40
2:HM:275:VAL:O	2:HM:275:VAL:HG13	2.22	0.40
1:I:32:PRO:HG3	1:I:81:TYR:CZ	2.56	0.40
1:I:53:GLU:HB3	1:I:59:TYR:CE1	2.55	0.40
1:I:230:ALA:HA	1:I:233:MET:HB2	2.03	0.40
2:IA:413:MET:SD	2:IA:417:GLU:HB2	2.62	0.40
1:IB:274:THR:HG21	1:IB:282:ARG:HG3	2.03	0.40
2:IC:365:GLY:HA2	38:2U:225:MET:O	2.21	0.40
1:ID:253:LEU:HD11	1:ID:316:LEU:HD21	2.04	0.40
1:ID:350:LYS:HA	1:ID:350:LYS:HE2	2.02	0.40
1:IF:324:LYS:NZ	2:IG:222:PRO:O	2.55	0.40
2:IG:265:ILE:HG21	2:IG:313:MET:HE1	2.04	0.40
1:IH:211:CYS:HB3	1:IH:220:PRO:CG	2.51	0.40
1:IH:249:ASP:OD1	1:IH:252:LYS:HB2	2.22	0.40
1:IH:255:VAL:HG23	2:II:407:TRP:CG	2.56	0.40
2:II:52:PHE:CE2	2:II:243:ARG:HD3	2.57	0.40
1:IJ:21:TRP:HA	1:IJ:24:ILE:HG22	2.04	0.40
1:IJ:119:VAL:HA	1:IJ:122:LYS:HG2	2.03	0.40
1:IL:66:MET:HE3	1:IL:147:MET:SD	2.62	0.40
1:IL:200:MET:HE1	1:IL:236:VAL:HG11	2.03	0.40
1:IL:350:LYS:NZ	2:IM:181:VAL:HG22	2.32	0.40
2:IM:153:LEU:HD12	2:IM:153:LEU:HA	1.90	0.40
2:J:285:GLN:NE2	2:J:287:SER:HB2	2.36	0.40
1:JA:44:LEU:HD23	1:JA:44:LEU:HA	1.95	0.40
2:JB:49:PHE:HD2	2:JB:53:PHE:HB2	1.86	0.40
1:JC:193:VAL:HG22	1:JC:265:PHE:HE1	1.85	0.40
2:JD:195:LEU:HA	2:JD:266:HIS:CE1	2.56	0.40
2:JD:317:LEU:HD13	2:JD:319:TYR:OH	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JE:113:ILE:HD11	1:JE:151:LEU:HA	2.03	0.40
1:JE:212:PHE:HD1	19:0r:26:VAL:HG23	1.83	0.40
2:JF:110:ILE:O	2:JF:113:GLU:HG2	2.21	0.40
2:JF:195:LEU:HD22	2:JF:267:PHE:HZ	1.86	0.40
1:JG:61:PRO:CD	1:JG:84:LEU:HG	2.45	0.40
1:JG:360:GLY:HA3	47:3D:143:TRP:CZ2	2.56	0.40
2:JH:1:MET:HE1	1:JI:94:GLN:HB3	2.04	0.40
2:JH:170:THR:HG23	2:JH:172:TYR:CE2	2.55	0.40
1:JI:275:SER:O	1:JI:279:GLN:HB2	2.22	0.40
1:JI:316:LEU:HB2	1:JI:366:THR:OG1	2.22	0.40
2:JJ:114:ILE:HD12	2:JJ:117:LEU:HD21	2.04	0.40
2:JJ:392:ASP:OD1	2:JJ:393:HIS:N	2.55	0.40
1:JK:20:PHE:O	1:JK:23:VAL:HG22	2.21	0.40
1:JK:309:ARG:N	1:JK:372:THR:OG1	2.47	0.40
1:JK:420:SER:HA	1:JK:423:GLN:HG2	2.03	0.40
2:JL:102:ASN:HB3	2:JL:105:ARG:H	1.87	0.40
1:JM:117:LEU:HB3	1:JM:121:ARG:NH1	2.36	0.40
1:JM:316:LEU:HD23	1:JM:352:SER:OG	2.21	0.40
2:JN:153:LEU:O	2:JN:157:LEU:HD23	2.22	0.40
2:JN:241:SER:HA	2:JN:356:ASN:HD22	1.86	0.40
2:JN:392:ASP:OD1	2:JN:393:HIS:N	2.55	0.40
2:K:384:ILE:HD11	2:K:432:TYR:CE1	2.57	0.40
1:KA:21:TRP:CZ2	1:KA:63:ALA:HB2	2.56	0.40
1:KA:174:ARG:NH1	1:KA:380:ARG:HH12	2.19	0.40
2:KB:152:LEU:O	2:KB:155:GLU:HG2	2.21	0.40
2:KB:223:SER:OG	2:KB:224:TYR:N	2.53	0.40
1:KC:220:PRO:HG2	1:KC:224:ASP:OD2	2.22	0.40
1:KC:270:PHE:HB3	1:KC:273:LEU:HD11	2.03	0.40
1:KC:275:SER:O	1:KC:279:GLN:NE2	2.54	0.40
2:KD:144:GLY:HA2	2:KD:186:ASN:ND2	2.36	0.40
2:KD:316:CYS:SG	2:KD:318:MET:HE3	2.61	0.40
1:KE:362:LYS:HD2	1:KE:363:MET:HG2	2.03	0.40
2:KF:91:GLN:HA	2:KF:121:ARG:HG2	2.04	0.40
2:KH:273:ALA:HB3	2:KH:295:VAL:HG23	2.03	0.40
2:KH:298:PRO:HB3	2:KH:308:ARG:HH12	1.87	0.40
1:KI:262:ARG:HH21	1:KI:418:LEU:HB2	1.86	0.40
1:KK:19:LYS:NZ	1:KK:227:HIS:HB2	2.37	0.40
1:KK:31:ASP:OD1	49:3Q:224:LEU:HD23	2.22	0.40
1:KK:325:GLU:CD	1:KK:325:GLU:N	2.79	0.40
1:KM:2:ARG:C	1:KM:131:GLN:HB2	2.47	0.40
2:KN:384:ILE:O	2:KN:387:VAL:HG22	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LA:269:GLY:HA2	1:LA:300:MET:HE3	2.02	0.40
1:LA:286:VAL:HG22	1:LA:321:MET:HE3	2.04	0.40
2:LB:221:ARG:HH11	23:1E:381:TYR:HD2	1.69	0.40
1:LC:391:ARG:HD2	22:1w:151:LEU:HD11	2.03	0.40
2:LD:328:VAL:O	2:LD:332:ILE:HG12	2.22	0.40
1:LE:258:VAL:HB	2:LF:407:TRP:HZ2	1.86	0.40
2:LF:165:SER:HA	2:LF:199:ASP:OD2	2.21	0.40
2:LH:139:HIS:CE1	2:LH:170:THR:HG22	2.56	0.40
1:LI:20:PHE:HA	1:LI:230:ALA:HB1	2.04	0.40
1:LM:379:ARG:O	1:LM:383:GLU:OE1	2.39	0.40
2:LN:232:GLY:HA2	2:LN:235:VAL:HG12	2.03	0.40
2:LN:411:GLU:O	2:LN:411:GLU:HG3	2.22	0.40
1:LO:263:LEU:HD13	1:LO:422:TYR:HE1	1.85	0.40
1:M:362:LYS:HZ2	23:1A:261:LEU:HB3	1.86	0.40
1:MB:377:MET:HE3	1:MB:377:MET:HB3	2.01	0.40
2:MC:163:LYS:HB3	32:2B:61:ARG:HD3	2.03	0.40
2:MC:253:THR:HG23	1:MD:98:GLY:HA2	2.04	0.40
2:MC:328:VAL:HG21	2:MC:355:ILE:HD11	2.02	0.40
1:MD:256:ASN:O	1:MD:312:THR:HG21	2.20	0.40
2:ME:304:LYS:HD3	2:ME:304:LYS:HA	1.84	0.40
1:MF:392:LYS:HE3	1:MF:395:LEU:HD23	2.03	0.40
1:MH:218:THR:HG23	19:0r:305:ALA:HB1	2.02	0.40
1:MJ:139:LEU:HG	1:MJ:168:SER:HB2	2.03	0.40
1:MJ:261:PRO:O	1:MJ:264:HIS:HD2	2.03	0.40
2:MK:279:GLU:HG2	2:MK:280:LYS:N	2.37	0.40
2:MK:359:PRO:HA	2:MK:360:PRO:HD3	1.93	0.40
1:ML:343:GLU:O	1:ML:346:PRO:HD3	2.22	0.40
2:MM:22:GLU:HG3	2:MM:83:TYR:OH	2.21	0.40
2:MM:259:LEU:HD21	2:MM:378:ILE:HG23	2.02	0.40
1:N:311:LEU:HD11	1:N:372:THR:HG23	2.03	0.40
1:N:313:ALA:HB3	1:N:349:ILE:HD13	2.03	0.40
2:NA:318:MET:O	2:NA:375:VAL:HA	2.22	0.40
2:NC:3:GLU:OE2	2:NC:131:GLY:N	2.54	0.40
2:NC:259:LEU:HD11	2:NC:378:ILE:O	2.21	0.40
1:ND:73:MET:HE3	1:ND:73:MET:HA	2.02	0.40
1:ND:379:ARG:O	1:ND:383:GLU:HG3	2.21	0.40
2:NE:317:LEU:HD13	2:NE:319:TYR:HE2	1.86	0.40
1:NF:11:GLN:HE21	1:NF:15:GLN:NE2	2.19	0.40
2:NG:188:VAL:HG11	2:NG:395:PHE:CD1	2.56	0.40
2:NI:384:ILE:HD12	2:NI:384:ILE:HA	1.94	0.40
2:NK:115:VAL:HG22	2:NK:119:LEU:HD23	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NL:131:GLN:HE21	1:NL:131:GLN:HB2	1.71	0.40
1:NL:313:ALA:HB1	1:NL:367:PHE:CE1	2.57	0.40
2:NM:104:ALA:O	2:NM:108:TYR:HB2	2.21	0.40
2:NM:195:LEU:O	2:NM:266:HIS:HE1	2.05	0.40
1:OB:190:HIS:O	1:OB:194:GLU:OE1	2.40	0.40
1:OD:135:LEU:HD22	1:OD:152:ILE:HD11	2.04	0.40
1:OF:99:ASN:HD22	1:OF:178:THR:HG23	1.85	0.40
1:OH:273:LEU:H	1:OH:292:GLN:HE22	1.67	0.40
2:OI:318:MET:O	2:OI:375:VAL:HA	2.21	0.40
2:OI:328:VAL:HG21	2:OI:355:ILE:HD11	2.04	0.40
2:OK:223:SER:OG	2:OK:224:TYR:N	2.53	0.40
2:OK:344:VAL:HG11	2:OK:347:CYS:SG	2.61	0.40
2:OM:273:ALA:O	2:OM:375:VAL:N	2.44	0.40
2:PA:316:CYS:SG	2:PA:318:MET:HE3	2.62	0.40
1:PB:42:LEU:HD12	1:PB:356:ILE:HD11	2.03	0.40
1:PB:284:LEU:HD13	1:PB:362:LYS:HB3	2.04	0.40
2:PC:23:LEU:O	2:PC:27:GLU:HG3	2.22	0.40
2:PC:318:MET:HE3	2:PC:318:MET:HB3	1.87	0.40
1:PD:128:ASP:OD2	2:PE:96:LYS:HE2	2.21	0.40
1:PD:309:ARG:NH1	1:PD:339:SER:O	2.54	0.40
2:PE:122:ILE:HG21	2:PE:157:LEU:HD21	2.04	0.40
1:PF:14:ASN:HD21	1:PF:67:ASP:HB2	1.86	0.40
1:PJ:226:ASN:HA	1:PJ:229:VAL:HG22	2.03	0.40
1:PL:152:ILE:HG22	1:PL:195:ASN:HB3	2.02	0.40
2:Q:151:ALA:O	2:Q:155:GLU:OE1	2.38	0.40
2:Q:236:SER:OG	2:Q:320:ARG:NH1	2.54	0.40
1:QC:272:PRO:HD3	1:QC:364:SER:HA	2.04	0.40
2:QF:259:LEU:HD23	2:QF:259:LEU:HA	1.93	0.40
1:QG:318:ARG:HA	1:QG:354:CYS:O	2.21	0.40
2:QH:66:LEU:HA	2:QH:91:GLN:O	2.22	0.40
2:QH:175:PRO:HB3	2:QH:390:ARG:NE	2.37	0.40
2:QH:192:HIS:O	2:QH:196:GLU:HG2	2.21	0.40
1:QI:11:GLN:HG2	69:QI:500:GDP:O1A	2.21	0.40
2:QJ:233:GLN:HG2	2:QJ:272:TYR:HE2	1.87	0.40
2:QJ:326:LYS:HZ1	1:QK:220:PRO:HG2	1.87	0.40
1:QK:350:LYS:NZ	1:QK:351:SER:O	2.42	0.40
1:QK:386:THR:O	1:QK:390:ARG:HG3	2.22	0.40
2:QL:311:LYS:HD2	2:QL:344:VAL:HA	2.03	0.40
2:R:382:THR:HG21	2:R:436:GLY:HA3	2.03	0.40
1:RA:145:SER:O	1:RA:149:THR:HG23	2.22	0.40
1:RA:318:ARG:HA	1:RA:354:CYS:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:RB:133:GLN:OE1	2:RB:133:GLN:HA	2.21	0.40
2:RB:196:GLU:HB3	2:RB:197:HIS:ND1	2.37	0.40
1:RC:242:PHE:HB2	1:RC:354:CYS:SG	2.61	0.40
2:RD:250:VAL:HG11	2:RD:318:MET:HE1	2.04	0.40
2:RH:23:LEU:O	2:RH:27:GLU:HG3	2.21	0.40
2:RH:174:SER:HB2	2:RH:175:PRO:HD2	2.04	0.40
2:RJ:275:VAL:HG13	2:RJ:275:VAL:O	2.21	0.40
2:RL:23:LEU:O	2:RL:27:GLU:HG3	2.22	0.40
1:S:333:VAL:HG22	59:3o:285:ALA:HB2	2.03	0.40
2:SA:63:PRO:HB2	2:SA:65:CYS:SG	2.62	0.40
2:SA:89:PRO:HG2	2:TA:280:LYS:CD	2.49	0.40
2:SC:63:PRO:HG2	2:SC:87:PHE:CE1	2.57	0.40
2:SC:295:VAL:HG11	2:SC:377:MET:HB2	2.04	0.40
2:SE:274:PRO:HD3	2:SE:374:ALA:HA	2.02	0.40
2:SE:318:MET:O	2:SE:375:VAL:HA	2.21	0.40
1:SF:12:CYS:HB2	69:SF:500:GDP:C8	2.57	0.40
1:SF:167:PHE:CE1	1:SF:233:MET:HG2	2.56	0.40
1:SF:268:MET:N	1:SF:268:MET:SD	2.95	0.40
2:SG:68:LEU:HD13	2:SG:118:ALA:HB2	2.04	0.40
2:SG:315:CYS:HB3	2:SG:377:MET:HE3	2.04	0.40
2:SI:27:GLU:HB2	2:SI:361:THR:HG21	2.04	0.40
2:SI:142:GLY:HA2	2:SI:183:GLU:HG3	2.02	0.40
2:SI:175:PRO:HG2	2:SI:207:GLU:OE1	2.20	0.40
1:SJ:360:GLY:C	41:2c:280:LEU:HD11	2.45	0.40
2:SK:120:ASP:O	2:SK:123:ARG:HB3	2.20	0.40
1:T:8:GLN:HB2	1:T:13:GLY:O	2.22	0.40
2:TC:352:LYS:HE3	2:TC:352:LYS:HB3	1.97	0.40
1:TD:18:SER:O	1:TD:22:GLU:OE1	2.38	0.40
2:TE:79:ARG:HG2	2:TE:92:LEU:HD21	2.04	0.40
2:TE:150:GLY:O	2:TE:154:LEU:HD23	2.21	0.40
1:TF:2:ARG:HH22	2:TG:73:THR:HG23	1.86	0.40
2:TG:90:GLU:HB2	2:TG:121:ARG:NH2	2.34	0.40
2:TG:141:VAL:HB	2:TG:190:SER:OG	2.22	0.40
2:TG:218:ASP:HB2	2:TG:280:LYS:NZ	2.37	0.40
1:TH:392:LYS:HE2	57:3g:191:SER:OG	2.22	0.40
2:TI:147:SER:OG	2:TI:190:SER:HB3	2.22	0.40
2:TI:285:GLN:HA	2:TI:285:GLN:OE1	2.21	0.40
2:TI:308:ARG:HH21	61:3x:48:ARG:HB3	1.87	0.40
2:TK:195:LEU:HA	2:TK:266:HIS:CE1	2.57	0.40
2:UA:317:LEU:HD12	2:UA:319:TYR:CE1	2.53	0.40
1:UB:170:ILE:HG13	1:UB:201:CYS:HB3	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UB:372:THR:HA	1:UB:422:TYR:HD1	1.87	0.40
1:UD:14:ASN:HD21	1:UD:67:ASP:HB2	1.87	0.40
1:UD:261:PRO:HG3	2:UE:406:HIS:CD2	2.57	0.40
2:UE:105:ARG:HG2	2:UE:411:GLU:OE1	2.21	0.40
1:UF:20:PHE:CE2	1:UF:24:ILE:HG13	2.55	0.40
1:UF:44:LEU:HD23	1:UF:44:LEU:HA	1.95	0.40
2:UG:172:TYR:CD2	2:UG:203:MET:HE1	2.56	0.40
1:UH:86:ARG:HG3	1:VH:281:TYR:HB3	2.03	0.40
1:UH:103:LYS:HG2	1:UH:401:GLU:CD	2.46	0.40
1:UH:378:PHE:HD2	1:UH:415:MET:CE	2.34	0.40
2:UI:269:LEU:CD1	2:UI:303:THR:HB	2.52	0.40
2:UI:331:ALA:O	2:UI:335:ILE:HG12	2.20	0.40
1:V:61:PRO:HD3	1:V:84:LEU:HG	2.03	0.40
2:VA:395:PHE:CD2	2:VA:422:ARG:HD3	2.57	0.40
2:VC:8:HIS:ND1	2:VC:17:GLY:HA3	2.36	0.40
2:VC:209:ILE:HG21	2:VC:227:VAL:HA	2.03	0.40
2:VE:200:VAL:HG23	2:VE:256:GLN:HG2	2.03	0.40
2:VE:362:VAL:HG21	8:0G:364:GLN:NE2	2.37	0.40
1:VF:130:LEU:HD21	1:VF:133:PHE:CE2	2.56	0.40
1:VF:165:MET:SD	1:VF:198:GLU:HG3	2.62	0.40
1:VF:345:ILE:HD13	2:VG:404:PHE:HE2	1.86	0.40
1:VJ:100:ASN:HB3	1:VJ:103:LYS:HB2	2.04	0.40
2:VK:50:ASN:ND2	14:0d:311:LYS:HG3	2.32	0.40
2:VK:238:LEU:HD21	2:VK:378:ILE:CG1	2.51	0.40
2:VK:345:ASP:N	2:VK:345:ASP:OD1	2.54	0.40
1:VL:380:ARG:O	1:VL:384:GLN:HG3	2.21	0.40
1:W:276:ARG:NH2	14:0c:301:ILE:HD11	2.35	0.40
2:WA:325:PRO:O	2:WA:328:VAL:HG22	2.22	0.40
1:WD:189:VAL:O	1:WD:193:VAL:HG23	2.22	0.40
2:WE:153:LEU:O	2:WE:157:LEU:HD23	2.20	0.40
1:WF:97:ALA:HB3	1:WF:143:THR:HB	2.04	0.40
2:WG:217:LEU:HD13	2:WG:367:ASP:OD2	2.21	0.40
2:WI:241:SER:OG	2:WI:250:VAL:N	2.39	0.40
1:WL:316:LEU:HD23	1:WL:352:SER:OG	2.21	0.40
2:WM:21:TRP:HZ2	2:WM:65:CYS:HB3	1.86	0.40
3:X:107:ASN:HA	3:X:123:MET:HB2	2.02	0.40
3:XB:89:PHE:CE2	3:XB:105:ALA:HB3	2.57	0.40
4:XO:248:ASN:CB	4:XO:300:VAL:HG12	2.49	0.40
6:0:29:VAL:HG22	14:0c:215:VAL:HG23	2.03	0.40
7:0D:399:LYS:HE2	7:0D:399:LYS:HB2	1.80	0.40
9:0L:155:THR:HA	9:0L:172:GLY:HA3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:0L:514:GLU:OE2	9:0L:558:LEU:N	2.54	0.40
9:0L:593:CYS:SG	9:0L:613:GLU:HB3	2.62	0.40
9:0M:167:LYS:HB3	9:0M:167:LYS:HE3	1.83	0.40
9:0M:220:SER:OG	9:0M:222:ASP:OD1	2.39	0.40
9:0M:593:CYS:SG	9:0M:613:GLU:HB3	2.61	0.40
9:0N:117:SER:HB3	9:0N:122:TYR:HB3	2.04	0.40
9:0O:83:HIS:HB2	9:0O:86:PHE:CD2	2.53	0.40
9:0O:112:GLN:HG2	9:0O:155:THR:O	2.22	0.40
10:0R:62:ALA:HB2	47:3D:122:MET:SD	2.61	0.40
12:0W:237:ALA:HB3	12:0W:277:GLN:HB3	2.03	0.40
13:0Y:70:ARG:O	13:0Y:70:ARG:HG3	2.22	0.40
13:0Z:164:PRO:HB3	32:2C:115:ALA:HB1	2.03	0.40
13:0Z:267:LEU:HD12	13:0Z:267:LEU:HA	1.91	0.40
16:0l:476:ASN:HD21	16:0l:479:LEU:HD12	1.86	0.40
16:0l:661:LEU:HA	16:0l:688:HIS:NE2	2.37	0.40
16:0k:183:ASP:O	16:0k:187:LEU:HD23	2.21	0.40
16:0k:265:LEU:HD23	16:0k:322:LEU:HG	2.03	0.40
20:0u:252:LYS:HD3	20:0u:252:LYS:HA	1.73	0.40
23:1B:217:ARG:HD3	45:2z:189:TYR:HB3	2.04	0.40
23:1E:213:GLU:OE2	45:2y:395:THR:N	2.55	0.40
24:1H:666:TYR:CZ	24:1H:670:ARG:HG2	2.56	0.40
24:1H:717:LYS:HB2	24:1H:717:LYS:HE2	1.92	0.40
24:1I:639:PRO:HB2	24:1I:640:LYS:H	1.69	0.40
24:1J:259:CYS:SG	24:1J:274:LEU:HB2	2.62	0.40
26:1Q:546:THR:HG21	26:1Q:667:ARG:HD3	2.02	0.40
27:1S:181:ARG:O	27:1S:185:GLN:HG3	2.22	0.40
28:1X:155:ASP:O	28:1X:159:GLN:HG3	2.21	0.40
28:1b:18:CYS:HB3	28:1b:20:CYS:SG	2.61	0.40
29:1l:8:PHE:HB3	44:2w:195:ASP:OD1	2.21	0.40
31:1s:245:LEU:O	31:1s:249:VAL:HG23	2.21	0.40
31:1t:161:GLU:HG2	22:1y:193:ARG:NH2	2.36	0.40
31:1t:255:LEU:O	31:1t:258:LEU:HG	2.21	0.40
35:2O:49:ALA:CB	35:2O:55:TYR:HB3	2.52	0.40
36:2Q:39:HIS:CD2	36:2Q:40:PRO:HD2	2.50	0.40
41:2e:148:ASN:HB3	41:2e:151:VAL:CG1	2.51	0.40
41:2f:482:ARG:HA	41:2f:482:ARG:HD2	1.68	0.40
41:2n:160:GLN:C	41:2n:163:PRO:HD2	2.46	0.40
42:2r:37:PRO:HG3	42:2r:228:THR:HA	2.02	0.40
44:2v:60:ILE:HA	44:2v:66:CYS:HA	2.03	0.40
45:2y:326:ALA:HA	45:2y:329:MET:HE3	2.04	0.40
46:3B:108:ASP:O	46:3B:112:VAL:HG23	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:3B:204:LYS:HB3	46:3B:207:CYS:SG	2.61	0.40
48:3F:42:SER:O	48:3F:45:GLU:HB2	2.20	0.40
53:3W:254:VAL:HG21	53:3W:311:GLN:HB3	2.03	0.40
54:3a:24:MET:HE3	54:3a:24:MET:HB3	1.94	0.40
57:3f:110:ARG:O	57:3f:114:ASP:HB2	2.22	0.40
57:3i:169:TYR:HD1	57:3i:172:ASP:OD2	2.04	0.40
58:3m:149:GLY:O	58:3m:152:ARG:N	2.55	0.40
58:3m:168:ARG:HD3	61:3w:243:TRP:CD1	2.56	0.40
60:3s:68:LEU:HD12	60:3s:68:LEU:HA	1.92	0.40
64:5B:234:LYS:HE3	64:5B:234:LYS:HB3	1.98	0.40
64:5C:170:GLN:O	64:5C:174:THR:HG22	2.21	0.40
1:A:311:LEU:HD23	1:A:342:ILE:CD1	2.51	0.40
1:AD:80:PRO:HG3	27:1S:174:GLN:OE1	2.21	0.40
2:AE:209:ILE:H	2:AE:209:ILE:HG13	1.69	0.40
2:AE:251:ASP:N	2:AE:254:GLU:HB2	2.37	0.40
1:AF:385:PHE:HE2	1:AF:412:GLU:HG3	1.86	0.40
2:AG:152:LEU:O	2:AG:156:ARG:HG2	2.21	0.40
1:AH:97:ALA:HB2	1:AH:143:THR:HB	2.03	0.40
1:AH:244:GLY:HA2	1:AH:355:ASP:OD2	2.21	0.40
1:AH:262:ARG:HD2	5:XP:250:ARG:HH12	1.85	0.40
1:AJ:249:ASP:H	1:AJ:252:LYS:CB	2.33	0.40
2:AK:19:ALA:O	2:AK:22:GLU:HG2	2.21	0.40
2:AK:62:VAL:HG21	2:BK:283:HIS:O	2.21	0.40
1:AL:20:PHE:O	1:AL:24:ILE:HG12	2.21	0.40
1:AL:345:ILE:HB	1:AL:348:ASN:HD21	1.86	0.40
2:AM:140:ALA:HB2	2:AM:171:VAL:HB	2.02	0.40
2:AM:181:VAL:HG23	2:AM:182:VAL:HG13	2.03	0.40
1:B:50:TYR:OH	1:B:237:THR:HG21	2.21	0.40
1:B:101:TRP:HB2	1:B:184:ASN:HD22	1.85	0.40
1:B:415:MET:O	1:B:419:VAL:HG23	2.21	0.40
2:BA:172:TYR:HD1	2:BA:203:MET:HG3	1.86	0.40
1:BB:102:ALA:HB2	1:BB:403:MET:HE3	2.04	0.40
1:BB:183:TYR:OH	1:BB:393:ALA:O	2.31	0.40
1:BB:350:LYS:HE2	2:BC:101:ASN:HD21	1.87	0.40
2:BE:9:ILE:HG22	2:BE:146:GLY:HA2	2.02	0.40
1:BF:175:VAL:HG11	1:BF:204:ASN:CB	2.52	0.40
1:BF:347:ASN:OD1	2:BG:178:SER:O	2.39	0.40
2:BG:102:ASN:ND2	2:BG:411:GLU:HG3	2.36	0.40
1:BH:85:PHE:HB3	1:BH:90:PHE:CE1	2.56	0.40
2:BI:8:HIS:HB3	2:BI:13:GLY:O	2.21	0.40
1:BJ:111:GLU:OE1	1:BJ:111:GLU:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BJ:215:LEU:HD21	1:BJ:273:LEU:HD23	2.04	0.40
1:BJ:235:GLY:HA2	1:BJ:318:ARG:NH1	2.37	0.40
2:BK:303:THR:HG23	2:BK:305:CYS:HB3	2.04	0.40
1:BL:86:ARG:HB3	1:BL:88:ASP:OD1	2.21	0.40
2:BM:9:ILE:HB	2:BM:139:HIS:HB3	2.04	0.40
2:C:252:LEU:HA	2:C:255:PHE:CE2	2.56	0.40
2:C:377:MET:HE3	2:C:379:ALA:HB2	2.03	0.40
1:CA:53:GLU:HB3	1:CA:59:TYR:CE1	2.56	0.40
1:CA:364:SER:OG	1:CA:365:VAL:N	2.55	0.40
1:CA:371:ASN:OD1	1:CA:372:THR:N	2.54	0.40
2:CB:47:ASP:OD1	2:CB:47:ASP:C	2.64	0.40
2:CB:71:GLU:OE1	2:CB:73:THR:OG1	2.40	0.40
1:CC:66:MET:HE3	1:CC:116:VAL:HG11	2.04	0.40
1:CE:21:TRP:CZ3	1:CE:61:PRO:HB3	2.57	0.40
2:CF:66:LEU:HD12	2:CF:91:GLN:HA	2.04	0.40
1:CG:151:LEU:O	1:CG:155:LEU:HD13	2.22	0.40
1:CG:166:THR:OG1	1:CG:199:SER:HA	2.21	0.40
2:CH:174:SER:HB3	2:CH:206:ASN:HB2	2.03	0.40
2:CH:344:VAL:HG11	2:CH:346:TRP:NE1	2.37	0.40
2:CJ:41:CYS:SG	24:1J:256:ARG:HB2	2.62	0.40
2:CJ:156:ARG:HD2	2:CJ:156:ARG:HA	1.93	0.40
1:CK:2:ARG:HB3	1:CK:3:GLU:OE1	2.22	0.40
1:CK:19:LYS:HD3	1:CK:227:HIS:HB2	2.03	0.40
1:CK:60:VAL:HG11	1:CK:86:ARG:HB2	2.03	0.40
2:CL:49:PHE:O	2:CL:53:PHE:N	2.33	0.40
2:CL:275:VAL:HG13	2:CL:275:VAL:O	2.21	0.40
2:D:3:GLU:HG2	2:D:129:CYS:SG	2.62	0.40
2:D:150:GLY:O	2:D:154:LEU:HD23	2.21	0.40
2:D:296:PHE:HZ	2:D:351:PHE:HE1	1.69	0.40
1:DA:48:ASN:HA	1:DA:51:PHE:O	2.21	0.40
1:DA:208:TYR:CZ	1:DA:225:LEU:HD11	2.57	0.40
2:DD:269:LEU:HD23	2:DD:269:LEU:H	1.86	0.40
1:DI:324:LYS:HD3	2:DJ:222:PRO:HD2	2.03	0.40
2:DJ:9:ILE:HD12	2:DJ:68:LEU:HD23	2.04	0.40
2:DL:349:THR:HG22	1:DM:176:SER:HB2	2.03	0.40
1:E:7:CYS:HB2	1:E:135:LEU:HD13	2.03	0.40
1:E:20:PHE:HZ	1:E:50:TYR:CE1	2.39	0.40
2:EA:1:MET:N	2:EA:3:GLU:OE2	2.39	0.40
2:EA:322:ASP:OD1	2:EA:322:ASP:N	2.55	0.40
1:EB:346:PRO:HG3	2:EC:394:LYS:HG3	2.03	0.40
2:EC:70:LEU:HD21	2:EC:149:LEU:HD22	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EE:71:GLU:OE1	2:EE:73:THR:OG1	2.31	0.40
2:EE:127:ASP:OD1	2:EE:128:ASN:N	2.54	0.40
2:EE:139:HIS:O	2:EE:170:THR:HA	2.21	0.40
1:EF:189:VAL:HG21	1:EF:415:MET:SD	2.62	0.40
1:EH:83:GLN:HG3	24:1I:471:PHE:CZ	2.57	0.40
2:EI:212:LEU:HD21	2:EI:275:VAL:HG21	2.03	0.40
2:EI:306:ASP:HB3	2:EI:309:HIS:ND1	2.37	0.40
2:EI:335:ILE:HD13	2:EI:335:ILE:HA	1.90	0.40
1:EL:193:VAL:HG12	1:EL:265:PHE:CE1	2.57	0.40
1:F:145:SER:HB2	1:F:188:SER:HB2	2.04	0.40
1:FB:341:PHE:HB3	1:FB:348:ASN:ND2	2.36	0.40
2:FE:72:PRO:O	2:FE:76:ASP:HB2	2.22	0.40
1:FF:190:HIS:O	1:FF:194:GLU:HG3	2.22	0.40
1:FF:232:VAL:CG2	1:FF:270:PHE:HB2	2.51	0.40
1:FF:284:LEU:HB3	1:FF:362:LYS:HE3	2.03	0.40
2:FG:17:GLY:HA2	2:FG:20:CYS:SG	2.62	0.40
2:FG:352:LYS:HA	1:FH:177:ASP:O	2.21	0.40
1:FH:228:LEU:HB3	1:FH:300:MET:HE1	2.03	0.40
1:FH:308:GLY:HA2	1:FH:426:GLN:NE2	2.37	0.40
2:FI:264:ARG:NH2	2:FI:431:ASP:OD2	2.54	0.40
1:FJ:232:VAL:O	1:FJ:236:VAL:HG23	2.22	0.40
1:FL:48:ASN:O	1:FL:62:ARG:NH1	2.35	0.40
1:FL:61:PRO:HD3	1:FL:84:LEU:HG	2.03	0.40
1:G:414:ASN:OD1	1:G:415:MET:N	2.55	0.40
1:GB:8:GLN:HG3	1:GB:14:ASN:HA	2.04	0.40
1:GB:183:TYR:OH	1:GB:393:ALA:O	2.32	0.40
1:GB:362:LYS:NZ	1:GB:363:MET:HE3	2.35	0.40
2:GC:103:TYR:CD2	2:GC:148:GLY:HA2	2.56	0.40
2:GE:164:LYS:HA	2:GE:164:LYS:HD3	1.88	0.40
1:GF:216:LYS:HG2	1:GF:275:SER:HB3	2.03	0.40
1:GH:9:ALA:HB2	1:GH:66:MET:HE3	2.03	0.40
1:GH:179:VAL:HB	1:GH:394:PHE:CE2	2.56	0.40
1:GH:373:CYS:O	1:GH:376:GLU:HG2	2.22	0.40
2:GI:140:ALA:HB3	71:GI:501:GTP:H5'	2.02	0.40
2:GI:348:PRO:HG2	1:GJ:384:GLN:OE1	2.22	0.40
2:GK:431:ASP:OD2	2:GK:432:TYR:N	2.55	0.40
1:GL:67:ASP:OD1	1:GL:68:LEU:N	2.54	0.40
1:GL:209:ASP:HA	1:GL:212:PHE:CD2	2.57	0.40
2:HC:271:SER:CB	2:HC:301:MET:HA	2.51	0.40
1:HD:242:PHE:HB2	1:HD:354:CYS:SG	2.62	0.40
1:HD:280:GLN:HG2	1:HD:281:TYR:CD1	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HH:239:CYS:SG	1:HH:316:LEU:HD23	2.61	0.40
1:HH:344:TRP:HA	2:HI:397:LEU:HD23	2.04	0.40
2:HI:169:TYR:OH	2:HI:238:LEU:HD23	2.20	0.40
1:HJ:192:LEU:HD23	1:HJ:192:LEU:HA	1.91	0.40
2:HK:201:ALA:O	2:HK:268:VAL:HG22	2.21	0.40
1:HL:8:GLN:HG2	1:HL:17:GLY:HA3	2.03	0.40
1:HL:318:ARG:HH21	1:HL:358:PRO:HG3	1.86	0.40
2:HM:413:MET:HE3	2:HM:413:MET:HA	2.03	0.40
1:I:151:LEU:O	1:I:155:LEU:HD23	2.21	0.40
1:I:170:ILE:O	1:I:203:ASP:HA	2.22	0.40
1:I:218:THR:HG22	7:0C:267:GLN:NE2	2.37	0.40
1:IB:65:LEU:HB3	1:IB:73:MET:HE1	2.02	0.40
2:IC:105:ARG:HG3	2:IC:105:ARG:HH11	1.86	0.40
2:IC:172:TYR:CE2	2:IC:203:MET:HE1	2.56	0.40
2:IC:213:THR:O	2:IC:218:ASP:N	2.54	0.40
1:IF:377:MET:HA	1:IF:380:ARG:HG2	2.03	0.40
1:IF:392:LYS:O	1:IF:392:LYS:HG3	2.20	0.40
2:IG:177:VAL:HG12	2:IG:207:GLU:OE1	2.22	0.40
1:IH:295:ASP:OD1	1:IH:297:LYS:HG2	2.21	0.40
1:IJ:139:LEU:HD12	1:IJ:170:ILE:HG22	2.03	0.40
2:IM:311:LYS:HD2	2:IM:343:PHE:C	2.47	0.40
2:IM:399:TYR:CE1	2:IM:418:PHE:HD2	2.40	0.40
2:J:156:ARG:HG3	2:J:156:ARG:NH1	2.36	0.40
1:JA:232:VAL:O	1:JA:236:VAL:HG23	2.21	0.40
1:JC:24:ILE:HD13	1:JC:24:ILE:HA	1.89	0.40
1:JE:28:HIS:NE2	1:JE:241:ARG:HD2	2.36	0.40
1:JE:330:MET:SD	1:JE:349:ILE:HG21	2.62	0.40
1:JE:390:ARG:C	60:3r:135:ARG:HH22	2.30	0.40
1:JG:188:SER:O	1:JG:192:LEU:HD23	2.22	0.40
1:JG:390:ARG:O	60:3s:38:THR:HA	2.22	0.40
1:JK:217:LEU:HB2	1:JK:220:PRO:HD3	2.02	0.40
1:JM:320:ARG:HH21	15:0g:47:ASN:CG	2.28	0.40
2:JN:245:ASP:N	2:JN:245:ASP:OD2	2.53	0.40
2:JN:295:VAL:HG21	2:JN:375:VAL:HG13	2.03	0.40
2:K:152:LEU:O	2:K:156:ARG:HG2	2.21	0.40
2:KB:142:GLY:O	2:KB:186:ASN:ND2	2.37	0.40
2:KD:265:ILE:HG23	2:KD:432:TYR:CZ	2.56	0.40
1:KE:235:GLY:HA3	1:KE:366:THR:HG21	2.04	0.40
1:KE:273:LEU:O	1:KE:292:GLN:NE2	2.50	0.40
2:KH:289:ALA:O	2:KH:293:ASN:ND2	2.39	0.40
1:KI:320:ARG:O	1:KI:320:ARG:HD2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KJ:117:LEU:O	2:KJ:121:ARG:HG2	2.21	0.40
2:KJ:312:TYR:CD1	2:KJ:381:SER:HB2	2.57	0.40
1:KK:76:VAL:O	1:KK:82:GLY:HA2	2.21	0.40
1:KK:263:LEU:HD21	1:KK:421:GLU:HG3	2.04	0.40
2:KL:274:PRO:HD3	2:KL:374:ALA:HA	2.03	0.40
1:KM:165:MET:HE1	1:KM:250:LEU:HD22	2.03	0.40
1:KM:311:LEU:HD23	1:KM:342:ILE:HD12	2.03	0.40
2:KN:105:ARG:HE	2:KN:110:ILE:HD11	1.85	0.40
2:KN:346:TRP:CE3	2:KN:347:CYS:HB2	2.57	0.40
1:LA:42:LEU:HD23	1:LA:42:LEU:HA	1.97	0.40
1:LA:164:MET:HE3	1:LA:164:MET:HB2	1.99	0.40
2:LB:21:TRP:CZ3	2:LB:52:PHE:HB3	2.56	0.40
2:LB:23:LEU:O	2:LB:27:GLU:OE1	2.38	0.40
1:LC:65:LEU:HB3	1:LC:73:MET:HE1	2.04	0.40
2:LD:6:CYS:O	2:LD:65:CYS:HA	2.21	0.40
2:LD:31:GLN:C	2:LD:33:ASP:H	2.30	0.40
2:LD:196:GLU:O	13:0Y:122:LYS:NZ	2.54	0.40
2:LD:278:ALA:HB1	23:1E:313:LEU:HD22	2.04	0.40
1:LE:324:LYS:HD3	2:LF:222:PRO:HD2	2.04	0.40
2:LF:115:VAL:O	2:LF:119:LEU:HD23	2.22	0.40
1:LG:172:SER:HB3	1:LG:175:VAL:HB	2.03	0.40
1:LG:253:LEU:O	1:LG:257:LEU:HB2	2.21	0.40
2:LH:70:LEU:HD22	2:LH:110:ILE:HG22	2.04	0.40
2:LH:230:LEU:HA	2:LH:230:LEU:HD12	1.87	0.40
2:LH:392:ASP:HB3	2:LH:425:LEU:HD22	2.03	0.40
1:LI:311:LEU:HA	1:LI:342:ILE:HD12	2.03	0.40
2:LJ:9:ILE:HD13	2:LJ:68:LEU:HB3	2.03	0.40
2:LJ:329:ASN:ND2	1:LK:175:VAL:HG13	2.37	0.40
1:LK:204:ASN:OD1	69:LK:500:GDP:O2'	2.40	0.40
1:LK:322:SER:HB2	2:LL:222:PRO:O	2.21	0.40
1:LK:347:ASN:C	1:LK:349:ILE:H	2.29	0.40
1:LO:118:ASP:O	1:LO:122:LYS:HG2	2.22	0.40
1:M:73:MET:HE2	1:M:92:PHE:HB3	2.03	0.40
1:M:145:SER:O	1:M:149:THR:HG23	2.22	0.40
1:MB:274:THR:HG21	1:MB:279:GLN:HA	2.04	0.40
1:MD:153:SER:O	1:MD:157:GLU:HG2	2.21	0.40
1:MD:273:LEU:O	1:MD:292:GLN:NE2	2.52	0.40
2:ME:173:PRO:HG3	2:ME:183:GLU:HG2	2.03	0.40
1:MF:197:ASP:OD2	1:MF:197:ASP:C	2.65	0.40
1:MH:161:ASP:HB3	1:MH:162:ARG:HH11	1.87	0.40
1:ML:101:TRP:CE3	1:ML:403:MET:HE1	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ML:167:PHE:CZ	1:ML:233:MET:HG2	2.56	0.40
1:ML:270:PHE:CD2	1:ML:273:LEU:HD11	2.56	0.40
2:MM:422:ARG:HD2	2:MM:422:ARG:HA	1.91	0.40
1:MN:221:THR:HG23	1:MN:223:GLY:H	1.86	0.40
1:N:8:GLN:O	1:N:8:GLN:HG3	2.20	0.40
1:N:329:GLN:O	1:N:332:ASN:HB3	2.21	0.40
1:ND:148:GLY:O	1:ND:152:ILE:HG12	2.22	0.40
2:NE:211:ASP:HA	2:NE:214:ARG:HB3	2.03	0.40
2:NG:5:ILE:HB	2:NG:135:PHE:CD1	2.56	0.40
2:NG:200:VAL:HG23	2:NG:256:GLN:NE2	2.36	0.40
2:NG:326:LYS:HE2	1:NH:208:TYR:HD1	1.86	0.40
2:NG:334:THR:HA	2:NG:337:THR:HG22	2.04	0.40
1:NH:173:PRO:HG3	1:NH:384:GLN:NE2	2.37	0.40
2:NI:252:LEU:HD23	2:NI:255:PHE:HE1	1.86	0.40
2:NI:356:ASN:OD1	2:NI:357:TYR:N	2.55	0.40
1:NJ:228:LEU:HD23	1:NJ:228:LEU:HA	1.91	0.40
2:NK:133:GLN:O	2:NK:165:SER:OG	2.35	0.40
1:NL:199:SER:O	1:NL:265:PHE:HA	2.22	0.40
2:NM:19:ALA:O	2:NM:22:GLU:HG2	2.22	0.40
1:O:294:PHE:HZ	1:O:330:MET:HE3	1.87	0.40
1:O:299:MET:HE3	1:O:299:MET:HA	2.02	0.40
1:O:311:LEU:HB3	1:O:370:ASN:O	2.21	0.40
1:O:316:LEU:HB2	1:O:366:THR:HG22	2.02	0.40
2:OC:134:GLY:HA3	2:OC:165:SER:OG	2.22	0.40
2:OE:167:LEU:HD21	2:OE:255:PHE:CZ	2.56	0.40
2:OE:271:SER:OG	2:OE:295:VAL:HG13	2.21	0.40
1:OF:203:ASP:OD2	1:OF:302:ALA:HB3	2.21	0.40
2:OI:31:GLN:HE22	2:OI:37:PRO:HG3	1.85	0.40
1:OJ:113:ILE:HG12	1:OJ:150:LEU:CD2	2.50	0.40
1:OL:384:GLN:O	1:OL:388:MET:HG3	2.22	0.40
2:PA:7:ILE:HG22	2:PA:9:ILE:HD11	2.03	0.40
2:PA:70:LEU:HB3	2:PA:97:GLU:O	2.21	0.40
1:PB:25:SER:HB3	1:PB:30:VAL:O	2.21	0.40
1:PB:233:MET:O	1:PB:236:VAL:HG12	2.21	0.40
1:PB:380:ARG:O	1:PB:384:GLN:HG2	2.21	0.40
2:PE:69:ASP:OD1	2:PE:71:GLU:HG3	2.20	0.40
2:PE:182:VAL:O	2:PE:182:VAL:HG12	2.21	0.40
1:PH:99:ASN:HD22	1:PH:141:GLY:HA2	1.86	0.40
2:PI:23:LEU:O	2:PI:27:GLU:HG3	2.22	0.40
2:PK:7:ILE:HG12	2:PK:122:ILE:HD11	2.03	0.40
1:PL:19:LYS:HD2	1:PL:227:HIS:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PL:201:CYS:SG	1:PL:202:ILE:N	2.95	0.40
2:PM:229:ARG:NH1	2:PM:363:VAL:HG21	2.37	0.40
2:Q:137:VAL:HG13	2:Q:168:GLY:HA2	2.02	0.40
2:Q:262:TYR:CE1	1:QA:393:ALA:HA	2.56	0.40
2:Q:275:VAL:O	2:Q:275:VAL:HG13	2.22	0.40
2:Q:392:ASP:HA	2:Q:395:PHE:HB3	2.03	0.40
2:Q:395:PHE:CE2	2:Q:422:ARG:HD3	2.56	0.40
1:QA:172:SER:HB2	1:QA:203:ASP:OD1	2.22	0.40
1:QA:232:VAL:HG12	1:QA:270:PHE:HD1	1.86	0.40
2:QB:81:GLY:HA3	28:1b:43:TYR:CE1	2.56	0.40
1:QC:69:GLU:HG2	1:QC:96:GLY:HA2	2.02	0.40
1:QC:424:GLN:HA	1:QC:427:ASP:OD1	2.21	0.40
2:QD:286:LEU:O	2:QD:373:ARG:NH1	2.45	0.40
2:QD:395:PHE:HZ	2:QD:418:PHE:HB3	1.86	0.40
1:QE:21:TRP:CZ2	1:QE:63:ALA:HB2	2.57	0.40
2:QF:11:GLN:O	2:QF:15:GLN:HG3	2.21	0.40
2:QF:27:GLU:HG2	2:QF:361:THR:HG21	2.04	0.40
2:QF:324:VAL:HG11	2:QF:326:LYS:HE3	2.02	0.40
2:QF:384:ILE:HD11	2:QF:432:TYR:CZ	2.56	0.40
1:QG:245:GLN:HG2	28:1b:145:THR:HG21	2.04	0.40
2:QH:47:ASP:OD1	2:QH:47:ASP:N	2.54	0.40
1:QI:7:CYS:O	1:QI:135:LEU:HD12	2.22	0.40
1:QI:239:CYS:SG	1:QI:247:ASN:HA	2.62	0.40
2:QJ:90:GLU:O	2:QJ:91:GLN:HB2	2.22	0.40
1:QK:382:GLY:O	1:QK:386:THR:HG23	2.20	0.40
2:R:145:THR:HG22	71:R:501:GTP:O3G	2.22	0.40
1:RA:12:CYS:O	1:RA:16:ILE:HG13	2.22	0.40
2:RB:84:ARG:HG2	59:3o:298:ILE:HG23	2.03	0.40
2:RB:170:THR:HG21	2:RB:194:LEU:HD21	2.02	0.40
2:RB:430:LYS:HE3	2:RB:430:LYS:HB3	1.90	0.40
1:RC:201:CYS:SG	1:RC:377:MET:HE1	2.61	0.40
1:RC:379:ARG:HG3	1:RC:379:ARG:HH11	1.87	0.40
1:RE:267:MET:O	1:RE:268:MET:HE2	2.22	0.40
1:RE:293:MET:HG3	1:RE:367:PHE:HB2	2.02	0.40
1:RG:22:GLU:OE2	1:RG:23:VAL:HG23	2.22	0.40
2:RH:77:GLU:CD	28:1Y:78:LYS:HD2	2.47	0.40
2:RJ:257:THR:HG1	1:RK:397:TRP:CG	2.39	0.40
1:RK:19:LYS:HB2	1:RK:19:LYS:HE2	1.80	0.40
2:RL:160:ASP:O	59:3p:261:PRO:HA	2.22	0.40
1:S:304:ASP:HB3	1:S:307:HIS:CE1	2.56	0.40
2:SA:249:ASN:H	1:SB:11:GLN:HE22	1.70	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SB:2:ARG:NH2	2:SC:73:THR:OG1	2.55	0.40
1:SB:189:VAL:O	1:SB:193:VAL:HG23	2.22	0.40
1:SB:350:LYS:HZ3	2:SC:180:ALA:N	2.20	0.40
2:SC:231:ILE:H	2:SC:231:ILE:HD12	1.87	0.40
2:SC:291:ILE:O	2:SC:295:VAL:HG23	2.22	0.40
1:SF:7:CYS:HB2	1:SF:135:LEU:HD12	2.03	0.40
2:SG:36:MET:HE1	2:SG:49:PHE:CD2	2.57	0.40
2:SG:60:LYS:HE2	2:SG:60:LYS:HB2	1.89	0.40
1:SH:293:MET:HE1	1:SH:330:MET:HE1	2.03	0.40
1:SJ:189:VAL:O	1:SJ:193:VAL:HG23	2.22	0.40
1:SJ:215:LEU:HD21	1:SJ:273:LEU:HD22	2.04	0.40
2:SK:56:THR:HG22	2:SK:60:LYS:H	1.85	0.40
2:TA:17:GLY:HA2	2:TA:20:CYS:HB2	2.02	0.40
2:TA:28:HIS:HD2	2:TA:53:PHE:HE2	1.69	0.40
1:TB:322:SER:HB2	2:TC:222:PRO:O	2.22	0.40
2:TC:120:ASP:HA	2:TC:123:ARG:NH1	2.37	0.40
1:TD:20:PHE:HA	1:TD:230:ALA:HB1	2.04	0.40
1:TD:99:ASN:HA	1:TD:142:GLY:HA3	2.03	0.40
1:TD:405:GLU:O	1:TD:409:THR:HG23	2.21	0.40
2:TE:70:LEU:HD21	2:TE:114:ILE:HG21	2.03	0.40
2:TE:269:LEU:HD11	2:TE:305:CYS:HB3	2.03	0.40
2:TE:385:ALA:HB2	2:TE:432:TYR:HB3	2.02	0.40
1:TF:47:ILE:HG12	1:TF:51:PHE:HD2	1.86	0.40
2:TG:219:ILE:HD11	2:TG:367:ASP:HB3	2.04	0.40
1:TH:156:ARG:HH22	1:TH:197:ASP:CG	2.28	0.40
1:TH:327:ASP:OD2	1:TH:327:ASP:C	2.65	0.40
2:TK:139:HIS:NE2	2:TK:170:THR:HG22	2.37	0.40
1:TL:62:ARG:NE	1:TL:127:CYS:SG	2.95	0.40
1:U:318:ARG:HA	1:U:354:CYS:O	2.21	0.40
2:UA:23:LEU:O	2:UA:27:GLU:HG3	2.21	0.40
1:UB:20:PHE:O	1:UB:24:ILE:HG12	2.22	0.40
2:UC:246:GLY:HA3	2:UC:356:ASN:HA	2.03	0.40
1:UD:185:THR:O	1:UD:189:VAL:HG23	2.22	0.40
2:UG:237:SER:HA	2:UG:320:ARG:HD2	2.03	0.40
1:UH:151:LEU:O	1:UH:155:LEU:HD13	2.21	0.40
2:UI:211:ASP:O	2:UI:214:ARG:HG2	2.21	0.40
2:UI:225:THR:O	2:UI:229:ARG:HG3	2.21	0.40
2:UK:349:THR:HG21	1:UL:182:PRO:HD3	2.03	0.40
1:UL:267:MET:C	1:UL:268:MET:HE2	2.47	0.40
1:UL:424:GLN:HA	1:UL:427:ASP:OD1	2.22	0.40
2:VA:21:TRP:HZ3	2:VA:52:PHE:HB3	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VD:198:GLU:OE2	1:VD:250:LEU:HD12	2.22	0.40
2:VE:395:PHE:CD2	2:VE:422:ARG:HD3	2.57	0.40
1:VF:4:ILE:HD11	1:VF:240:LEU:HD22	2.02	0.40
1:VF:209:ASP:OD1	1:VF:213:ARG:NE	2.54	0.40
2:VG:143:GLY:HA3	71:VG:501:GTP:O2A	2.21	0.40
2:VG:401:LYS:HE3	2:VG:401:LYS:HB3	1.96	0.40
1:VH:267:MET:HB3	1:VH:301:GLN:HG2	2.02	0.40
2:VI:334:THR:HA	2:VI:337:THR:HG22	2.02	0.40
2:VK:357:TYR:O	53:3X:42:ARG:NH1	2.55	0.40
2:VM:19:ALA:HA	2:VM:22:GLU:HG2	2.04	0.40
1:WD:141:GLY:HA3	69:WD:500:GDP:O3A	2.22	0.40
2:WE:104:ALA:HB2	2:WE:413:MET:SD	2.62	0.40
2:WG:26:LEU:HD23	2:WG:363:VAL:HG12	2.02	0.40
2:WG:244:PHE:HB2	2:WG:356:ASN:HD21	1.85	0.40
2:WI:115:VAL:O	2:WI:119:LEU:HD23	2.22	0.40
2:WI:288:VAL:HA	2:WI:291:ILE:HG12	2.03	0.40
2:WI:392:ASP:HB3	2:WI:425:LEU:HD23	2.03	0.40
2:WK:255:PHE:O	2:WK:259:LEU:HB2	2.22	0.40
2:WM:188:VAL:HG23	2:WM:425:LEU:HD22	2.04	0.40
2:WM:204:LEU:HD13	2:WM:231:ILE:HD12	2.03	0.40
3:XB:96:ASP:OD2	3:XB:147:ASN:HB2	2.21	0.40
4:XM:26:ALA:HB1	4:XM:170:GLU:CD	2.46	0.40
5:XN:257:ASN:HD22	5:XN:307:VAL:HG13	1.86	0.40
4:XR:207:LEU:HB3	4:XR:246:VAL:HG21	2.04	0.40
6:0A:9:GLY:C	6:0A:11:VAL:H	2.29	0.40
6:0A:78:ARG:HD2	6:0A:86:ILE:HD12	2.04	0.40
7:0D:7:SER:HB3	7:0D:10:ARG:HH21	1.86	0.40
8:0G:420:MET:SD	53:3W:310:MET:HE1	2.62	0.40
9:0L:17:GLY:N	9:0L:322:CYS:SG	2.95	0.40
9:0L:43:ILE:HB	9:0L:57:PHE:HB2	2.04	0.40
9:0M:364:VAL:HG11	9:0M:367:LEU:HD12	2.03	0.40
9:0N:555:SER:OG	9:0N:598:VAL:HG22	2.22	0.40
10:0R:18:GLU:O	10:0R:21:MET:N	2.54	0.40
11:0U:123:PHE:HE2	11:0U:185:ILE:HD12	1.86	0.40
14:0c:75:ASN:OD1	14:0c:75:ASN:N	2.54	0.40
14:0d:313:THR:O	14:0d:316:MET:HB3	2.21	0.40
16:0l:667:ASP:O	16:0l:670:ARG:NH1	2.55	0.40
16:0k:7:SER:OG	16:0k:8:PHE:N	2.55	0.40
16:0k:418:LEU:HB3	16:0k:477:TYR:CD2	2.57	0.40
16:0k:765:ASP:O	16:0k:769:VAL:HG23	2.22	0.40
17:0m:135:GLU:HA	17:0m:138:GLU:CG	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:0n:378:GLU:HG3	38:2U:275:MET:HB2	2.03	0.40
19:0r:150:TYR:HE1	19:0r:158:PRO:HG3	1.87	0.40
21:0w:129:ALA:O	21:0w:133:GLU:OE1	2.40	0.40
22:0z:262:ILE:O	22:0z:266:GLN:HG2	2.21	0.40
21:0v:69:ALA:O	21:0v:73:GLN:OE1	2.39	0.40
23:1A:106:VAL:O	23:1A:110:ARG:HG3	2.21	0.40
23:1B:339:ARG:HG3	24:1J:49:ALA:O	2.22	0.40
23:1E:109:ILE:HD11	24:1J:28:MET:HE3	2.04	0.40
23:1E:309:GLN:O	23:1E:313:LEU:HD23	2.21	0.40
24:1H:495:ARG:HE	24:1H:502:PRO:HB2	1.86	0.40
24:1H:549:ALA:HB2	24:1H:573:LEU:HD11	2.02	0.40
24:1K:251:ASP:OD2	24:1K:252:ARG:N	2.55	0.40
24:1K:531:ILE:HG23	24:1K:577:LEU:HD11	2.04	0.40
26:1Q:346:ASP:OD2	26:1Q:347:CYS:N	2.54	0.40
26:1Q:660:PHE:HE2	26:1Q:739:LEU:HD21	1.85	0.40
27:1S:274:ARG:O	27:1S:279:GLY:N	2.54	0.40
28:1V:14:ASP:OD2	28:1V:16:ARG:NH2	2.40	0.40
28:1Y:117:ASP:C	28:1Y:119:PRO:HD3	2.46	0.40
29:1j:58:MET:HG2	29:1j:71:GLY:HA2	2.04	0.40
31:1q:17:CYS:SG	31:1q:62:CYS:HA	2.61	0.40
31:1r:148:GLN:HA	31:1r:151:LYS:HG2	2.03	0.40
31:1r:214:VAL:HG11	31:1r:262:LYS:HD3	2.04	0.40
31:1r:221:TYR:OH	22:1x:266:GLN:HB3	2.20	0.40
31:1r:258:LEU:HD23	31:1r:258:LEU:HA	1.96	0.40
22:1w:259:LEU:O	22:1w:262:ILE:HG22	2.20	0.40
22:1w:268:HIS:HA	22:1w:271:ARG:HG2	2.04	0.40
22:1x:178:LYS:HE2	22:1x:178:LYS:HB3	1.92	0.40
34:2L:61:ILE:HD13	34:2L:106:THR:HG22	2.02	0.40
36:2Q:219:TYR:HB2	36:2Q:237:ILE:HB	2.03	0.40
37:2S:42:VAL:HG23	37:2S:74:GLU:HB3	2.04	0.40
37:2S:164:PHE:O	37:2S:164:PHE:CD1	2.74	0.40
38:2U:194:GLU:HG2	38:2U:195:GLN:N	2.36	0.40
41:2b:186:ARG:HA	41:2b:189:GLU:OE1	2.22	0.40
43:2t:189:ALA:HA	43:2t:192:ASP:OD2	2.22	0.40
44:2w:123:ASN:OD1	44:2w:124:GLN:N	2.53	0.40
44:2w:412:PHE:CD1	44:2w:413:VAL:HG12	2.57	0.40
45:2y:314:VAL:HA	45:2y:315:PRO:HD3	1.95	0.40
46:3B:388:ASP:HA	46:3B:391:LEU:HD23	2.03	0.40
47:3D:432:VAL:O	47:3D:436:LEU:HG	2.22	0.40
48:3I:29:MET:O	48:3I:32:THR:HG22	2.22	0.40
49:3P:476:TYR:HE2	49:3P:493:LEU:HB3	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:3Z:286:LEU:O	54:3Z:290:LEU:HD23	2.21	0.40
57:3g:81:LYS:O	57:3g:83:GLU:N	2.55	0.40
28:4W:187:TYR:CD1	28:4W:191:TYR:HD2	2.39	0.40
64:5C:234:LYS:HG3	65:5H:233:ILE:HG21	2.03	0.40
65:5G:221:GLU:O	65:5G:224:ARG:N	2.54	0.40
66:5K:13:ASN:HD22	66:5K:258:ASP:HB2	1.86	0.40
66:5K:101:LEU:HD23	66:5K:119:VAL:HG12	2.04	0.40
66:5K:102:CYS:SG	66:5K:118:LEU:HB2	2.61	0.40
66:5L:186:PHE:CE1	66:5L:190:VAL:HG11	2.57	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

There are no protein backbone outliers to report in this entry.

5.3.2 Protein sidechains (i)

There are no protein residues with a non-rotameric sidechain to report in this entry.

5.3.3 RNA (i)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains (i)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

Of 511 ligands modelled in this entry, 190 are monoatomic - leaving 321 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
69	GDP	NB	500	-	29,30,30	1.16	3 (10%)	45,47,47	1.75	7 (15%)
71	GTP	SE	501	70	33,34,34	0.90	1 (3%)	50,54,54	1.59	10 (20%)
71	GTP	QD	501	70	33,34,34	0.97	2 (6%)	50,54,54	1.58	9 (18%)
71	GTP	TG	501	70	33,34,34	0.94	1 (3%)	50,54,54	1.56	9 (18%)
71	GTP	QH	501	70	33,34,34	0.96	1 (3%)	50,54,54	1.63	10 (20%)
71	GTP	JH	501	70	33,34,34	0.91	1 (3%)	50,54,54	1.58	9 (18%)
71	GTP	IG	501	70	33,34,34	0.91	1 (3%)	50,54,54	1.57	9 (18%)
69	GDP	IB	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.74	7 (15%)
71	GTP	ME	501	70	33,34,34	0.99	3 (9%)	50,54,54	1.57	9 (18%)
69	GDP	WL	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
69	GDP	PH	500	-	29,30,30	1.14	3 (10%)	45,47,47	1.73	6 (13%)
71	GTP	WG	501	70	33,34,34	0.88	1 (3%)	50,54,54	1.58	9 (18%)
71	GTP	GA	501	70	33,34,34	0.95	1 (3%)	50,54,54	1.58	8 (16%)
69	GDP	IF	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
69	GDP	FF	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	7 (15%)
69	GDP	OL	500	-	29,30,30	1.16	3 (10%)	45,47,47	1.77	7 (15%)
69	GDP	PB	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.74	7 (15%)
69	GDP	UH	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
69	GDP	NH	500	-	29,30,30	1.16	3 (10%)	45,47,47	1.77	7 (15%)
71	GTP	UE	501	70	33,34,34	0.91	1 (3%)	50,54,54	1.56	9 (18%)
69	GDP	RA	500	-	29,30,30	1.14	3 (10%)	45,47,47	1.73	7 (15%)
71	GTP	LJ	501	70	33,34,34	0.91	1 (3%)	50,54,54	1.59	9 (18%)
71	GTP	UK	501	70	33,34,34	0.95	1 (3%)	50,54,54	1.55	8 (16%)
71	GTP	RL	501	70	33,34,34	0.94	1 (3%)	50,54,54	1.59	9 (18%)
69	GDP	AB	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.74	7 (15%)
69	GDP	MB	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	5 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
69	GDP	PF	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.73	7 (15%)
69	GDP	NJ	500	-	29,30,30	1.16	3 (10%)	45,47,47	1.76	7 (15%)
71	GTP	II	501	70	33,34,34	0.91	1 (3%)	50,54,54	1.60	9 (18%)
69	GDP	AF	500	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	6 (13%)
69	GDP	HF	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.73	7 (15%)
69	GDP	KK	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	7 (15%)
69	GDP	UF	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
69	GDP	DG	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
69	GDP	AN	500	-	29,30,30	1.14	3 (10%)	45,47,47	1.75	7 (15%)
71	GTP	QJ	501	70	33,34,34	0.95	2 (6%)	50,54,54	1.58	10 (20%)
69	GDP	WD	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
69	GDP	GF	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	7 (15%)
71	GTP	IM	501	70	33,34,34	0.94	1 (3%)	50,54,54	1.57	8 (16%)
71	GTP	WM	501	70	33,34,34	0.97	1 (3%)	50,54,54	1.57	9 (18%)
69	GDP	KC	500	-	29,30,30	1.14	3 (10%)	45,47,47	1.75	7 (15%)
71	GTP	RF	501	70	33,34,34	0.91	1 (3%)	50,54,54	1.59	8 (16%)
69	GDP	LG	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	6 (13%)
71	GTP	LH	501	70	33,34,34	0.94	1 (3%)	50,54,54	1.61	9 (18%)
69	GDP	H	500	-	29,30,30	1.16	3 (10%)	45,47,47	1.76	7 (15%)
71	GTP	NE	501	70	33,34,34	0.99	2 (6%)	50,54,54	1.56	9 (18%)
71	GTP	AG	501	70	33,34,34	0.90	1 (3%)	50,54,54	1.55	9 (18%)
71	GTP	EA	501	70	33,34,34	0.97	1 (3%)	50,54,54	1.61	9 (18%)
71	GTP	DB	501	70	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
71	GTP	PK	501	70	33,34,34	0.91	1 (3%)	50,54,54	1.59	9 (18%)
71	GTP	DJ	501	70	33,34,34	0.98	2 (6%)	50,54,54	1.58	9 (18%)
71	GTP	SI	501	70	33,34,34	0.89	1 (3%)	50,54,54	1.57	8 (16%)
69	GDP	LI	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	7 (15%)
69	GDP	CC	500	-	29,30,30	1.16	3 (10%)	45,47,47	1.76	7 (15%)
71	GTP	FE	501	70	33,34,34	0.94	1 (3%)	50,54,54	1.54	9 (18%)
71	GTP	MG	501	70	33,34,34	0.89	1 (3%)	50,54,54	1.57	9 (18%)
69	GDP	KA	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
69	GDP	ID	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.74	7 (15%)
69	GDP	WJ	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.74	7 (15%)
69	GDP	HJ	500	-	29,30,30	1.14	3 (10%)	45,47,47	1.77	7 (15%)
71	GTP	FA	501	70	33,34,34	0.94	1 (3%)	50,54,54	1.55	9 (18%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
71	GTP	JF	501	70	33,34,34	0.90	1 (3%)	50,54,54	1.60	9 (18%)
71	GTP	TI	501	70	33,34,34	0.98	1 (3%)	50,54,54	1.57	9 (18%)
69	GDP	RG	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	7 (15%)
69	GDP	AH	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.69	7 (15%)
69	GDP	EL	500	-	29,30,30	1.17	2 (6%)	45,47,47	1.74	5 (11%)
71	GTP	L	501	70	33,34,34	0.95	1 (3%)	50,54,54	1.56	8 (16%)
69	GDP	W	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
69	GDP	OF	500	-	29,30,30	1.14	3 (10%)	45,47,47	1.77	7 (15%)
71	GTP	VG	501	70	33,34,34	1.00	3 (9%)	50,54,54	1.57	9 (18%)
71	GTP	SK	501	70	33,34,34	0.96	1 (3%)	50,54,54	1.58	8 (16%)
71	GTP	OG	501	70	33,34,34	0.90	1 (3%)	50,54,54	1.60	9 (18%)
71	GTP	KD	501	70	33,34,34	0.97	1 (3%)	50,54,54	1.56	8 (16%)
71	GTP	C	501	70	33,34,34	0.95	1 (3%)	50,54,54	1.57	9 (18%)
71	GTP	KL	501	70	33,34,34	0.96	2 (6%)	50,54,54	1.58	9 (18%)
71	GTP	QF	501	70	33,34,34	0.90	1 (3%)	50,54,54	1.59	9 (18%)
69	GDP	JM	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
69	GDP	M	500	-	29,30,30	1.16	3 (10%)	45,47,47	1.76	7 (15%)
71	GTP	CF	501	70	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
69	GDP	BF	500	-	29,30,30	1.14	3 (10%)	45,47,47	1.75	7 (15%)
71	GTP	JJ	501	70	33,34,34	0.97	1 (3%)	50,54,54	1.57	9 (18%)
69	GDP	FH	500	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
71	GTP	R	501	70	33,34,34	0.94	1 (3%)	50,54,54	1.59	9 (18%)
71	GTP	EG	501	70	33,34,34	0.95	1 (3%)	50,54,54	1.60	10 (20%)
71	GTP	IE	501	70	33,34,34	0.97	1 (3%)	50,54,54	1.62	9 (18%)
71	GTP	BG	501	70	33,34,34	0.90	1 (3%)	50,54,54	1.58	9 (18%)
69	GDP	U	500	-	29,30,30	1.16	3 (10%)	45,47,47	1.78	7 (15%)
71	GTP	IK	501	70	33,34,34	1.24	5 (15%)	50,54,54	1.62	10 (20%)
71	GTP	GK	501	70	33,34,34	0.97	2 (6%)	50,54,54	1.57	8 (16%)
69	GDP	ML	500	-	29,30,30	1.16	3 (10%)	45,47,47	1.77	7 (15%)
69	GDP	QI	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
69	GDP	LC	500	-	29,30,30	1.14	3 (10%)	45,47,47	1.75	6 (13%)
71	GTP	VE	501	70	33,34,34	0.92	1 (3%)	50,54,54	1.59	9 (18%)
69	GDP	GH	500	-	29,30,30	1.14	3 (10%)	45,47,47	1.78	7 (15%)
71	GTP	RJ	501	-	33,34,34	0.97	1 (3%)	50,54,54	1.57	8 (16%)
71	GTP	OK	501	-	33,34,34	0.91	1 (3%)	50,54,54	1.61	9 (18%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
71	GTP	LF	501	70	33,34,34	0.90	1 (3%)	50,54,54	1.59	9 (18%)
71	GTP	FC	501	70	33,34,34	0.95	1 (3%)	50,54,54	1.56	9 (18%)
69	GDP	MF	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.74	7 (15%)
71	GTP	IC	501	70	33,34,34	0.98	2 (6%)	50,54,54	1.61	9 (18%)
69	GDP	VB	500	-	29,30,30	1.14	3 (10%)	45,47,47	1.77	7 (15%)
69	GDP	LK	500	-	29,30,30	1.16	3 (10%)	45,47,47	1.76	7 (15%)
71	GTP	BM	501	70	33,34,34	1.00	3 (9%)	50,54,54	1.55	9 (18%)
69	GDP	IL	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.78	7 (15%)
71	GTP	LL	501	70	33,34,34	0.94	1 (3%)	50,54,54	1.54	8 (16%)
69	GDP	LM	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	7 (15%)
69	GDP	BH	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
71	GTP	D	501	-	33,34,34	1.00	3 (9%)	50,54,54	1.60	10 (20%)
69	GDP	RE	500	-	29,30,30	1.16	3 (10%)	45,47,47	1.80	8 (17%)
71	GTP	RD	501	70	33,34,34	0.97	2 (6%)	50,54,54	1.55	8 (16%)
69	GDP	CI	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	7 (15%)
71	GTP	LB	501	70	33,34,34	0.97	2 (6%)	50,54,54	1.56	8 (16%)
69	GDP	UJ	500	-	29,30,30	1.14	3 (10%)	45,47,47	1.75	7 (15%)
69	GDP	GJ	500	-	29,30,30	1.14	3 (10%)	45,47,47	1.77	7 (15%)
71	GTP	DH	501	70	33,34,34	0.87	1 (3%)	50,54,54	1.59	9 (18%)
71	GTP	UA	501	70	33,34,34	0.95	1 (3%)	50,54,54	1.55	9 (18%)
69	GDP	JA	500	-	29,30,30	1.16	3 (10%)	45,47,47	1.76	7 (15%)
69	GDP	FJ	500	-	29,30,30	1.16	3 (10%)	45,47,47	1.76	7 (15%)
71	GTP	NG	501	-	33,34,34	1.02	3 (9%)	50,54,54	1.60	9 (18%)
71	GTP	UI	501	70	33,34,34	0.96	1 (3%)	50,54,54	1.59	9 (18%)
69	GDP	DI	500	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
71	GTP	OA	501	70	33,34,34	0.94	1 (3%)	50,54,54	1.55	8 (16%)
69	GDP	QG	500	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
69	GDP	CA	500	-	29,30,30	1.16	3 (10%)	45,47,47	1.78	7 (15%)
71	GTP	HM	501	70	33,34,34	0.91	1 (3%)	50,54,54	1.55	9 (18%)
69	GDP	BN	500	-	29,30,30	1.17	3 (10%)	45,47,47	1.80	8 (17%)
71	GTP	AA	501	70	33,34,34	0.96	1 (3%)	50,54,54	1.55	9 (18%)
71	GTP	MI	501	70	33,34,34	0.96	1 (3%)	50,54,54	1.54	8 (16%)
69	GDP	G	500	-	29,30,30	1.16	3 (10%)	45,47,47	1.76	7 (15%)
69	GDP	JG	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	7 (15%)
69	GDP	SD	500	-	29,30,30	1.14	3 (10%)	45,47,47	1.75	6 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
69	GDP	KG	500	-	29,30,30	1.16	3 (10%)	45,47,47	1.76	7 (15%)
69	GDP	VJ	500	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	8 (17%)
71	GTP	KF	501	70	33,34,34	0.98	2 (6%)	50,54,54	1.56	9 (18%)
69	GDP	DM	500	-	29,30,30	1.16	3 (10%)	45,47,47	1.75	6 (13%)
71	GTP	CB	501	70	33,34,34	0.98	1 (3%)	50,54,54	1.55	8 (16%)
71	GTP	OI	501	70	33,34,34	0.92	1 (3%)	50,54,54	1.57	9 (18%)
69	GDP	HL	500	-	29,30,30	1.16	3 (10%)	45,47,47	1.73	7 (15%)
69	GDP	KE	500	-	29,30,30	1.16	3 (10%)	45,47,47	1.76	7 (15%)
69	GDP	BB	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	6 (13%)
71	GTP	J	501	70	33,34,34	0.94	1 (3%)	50,54,54	1.55	8 (16%)
71	GTP	FI	501	70	33,34,34	0.92	1 (3%)	50,54,54	1.57	9 (18%)
71	GTP	UG	501	70	33,34,34	0.90	1 (3%)	50,54,54	1.58	9 (18%)
71	GTP	OM	501	70	33,34,34	0.93	1 (3%)	50,54,54	1.56	8 (16%)
71	GTP	SC	501	70	33,34,34	0.89	1 (3%)	50,54,54	1.57	8 (16%)
69	GDP	JC	500	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
69	GDP	RI	500	-	29,30,30	1.14	3 (10%)	45,47,47	1.74	7 (15%)
71	GTP	LN	501	70	33,34,34	0.96	1 (3%)	50,54,54	1.55	9 (18%)
69	GDP	JI	500	-	29,30,30	1.16	3 (10%)	45,47,47	1.74	6 (13%)
69	GDP	OH	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.73	7 (15%)
69	GDP	MJ	500	-	29,30,30	1.17	3 (10%)	45,47,47	1.73	7 (15%)
69	GDP	PJ	500	-	29,30,30	1.14	3 (10%)	45,47,47	1.74	7 (15%)
71	GTP	JD	501	70	33,34,34	0.94	1 (3%)	50,54,54	1.54	8 (16%)
71	GTP	EE	501	70	33,34,34	1.02	3 (9%)	50,54,54	1.58	9 (18%)
69	GDP	JE	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
69	GDP	IH	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	7 (15%)
71	GTP	HC	501	70	33,34,34	0.97	2 (6%)	50,54,54	1.59	9 (18%)
69	GDP	DK	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
69	GDP	AD	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
69	GDP	QK	500	-	29,30,30	1.17	3 (10%)	45,47,47	1.74	6 (13%)
69	GDP	DC	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	7 (15%)
69	GDP	E	500	-	29,30,30	1.18	3 (10%)	45,47,47	1.73	5 (11%)
71	GTP	HI	501	70	33,34,34	0.88	1 (3%)	50,54,54	1.55	9 (18%)
69	GDP	WH	500	-	29,30,30	1.16	3 (10%)	45,47,47	1.77	7 (15%)
69	GDP	CM	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.82	9 (20%)
71	GTP	TE	501	70	33,34,34	0.90	1 (3%)	50,54,54	1.57	9 (18%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
69	GDP	F	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.78	7 (15%)
69	GDP	OB	500	-	29,30,30	1.16	3 (10%)	45,47,47	1.77	7 (15%)
71	GTP	CH	501	70	33,34,34	0.97	1 (3%)	50,54,54	1.61	10 (20%)
69	GDP	RK	500	-	29,30,30	1.16	3 (10%)	45,47,47	1.77	7 (15%)
69	GDP	LE	500	-	29,30,30	1.14	3 (10%)	45,47,47	1.75	7 (15%)
71	GTP	WC	501	70	33,34,34	0.96	1 (3%)	50,54,54	1.56	9 (18%)
71	GTP	EC	501	70	33,34,34	0.92	1 (3%)	50,54,54	1.57	9 (18%)
71	GTP	NI	501	70	33,34,34	0.92	1 (3%)	50,54,54	1.58	9 (18%)
71	GTP	BA	501	70	33,34,34	0.98	1 (3%)	50,54,54	1.55	8 (16%)
69	GDP	NF	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.74	7 (15%)
71	GTP	AC	501	70	33,34,34	0.92	1 (3%)	50,54,54	1.56	9 (18%)
71	GTP	PE	501	70	33,34,34	0.94	1 (3%)	50,54,54	1.59	8 (16%)
71	GTP	MA	501	70	33,34,34	0.97	1 (3%)	50,54,54	1.56	8 (16%)
69	GDP	FL	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	6 (13%)
71	GTP	CD	501	70	33,34,34	1.02	3 (9%)	50,54,54	1.58	9 (18%)
71	GTP	RB	501	70	33,34,34	0.98	2 (6%)	50,54,54	1.55	8 (16%)
71	GTP	VI	501	70	33,34,34	0.94	1 (3%)	50,54,54	1.59	9 (18%)
71	GTP	FG	501	70	33,34,34	0.95	1 (3%)	50,54,54	1.58	9 (18%)
69	GDP	MN	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.73	7 (15%)
71	GTP	BC	501	70	33,34,34	0.98	2 (6%)	50,54,54	1.57	9 (18%)
71	GTP	AI	501	70	33,34,34	0.91	1 (3%)	50,54,54	1.59	9 (18%)
71	GTP	WK	501	70	33,34,34	0.95	1 (3%)	50,54,54	1.56	9 (18%)
71	GTP	QB	501	70	33,34,34	0.97	2 (6%)	50,54,54	1.59	8 (16%)
69	GDP	EF	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
71	GTP	BI	501	70	33,34,34	1.00	3 (9%)	50,54,54	1.57	8 (16%)
71	GTP	MC	501	70	33,34,34	0.93	1 (3%)	50,54,54	1.57	9 (18%)
69	GDP	UB	500	-	29,30,30	1.17	3 (10%)	45,47,47	1.77	7 (15%)
69	GDP	I	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
69	GDP	ED	500	-	29,30,30	1.16	3 (10%)	45,47,47	1.75	7 (15%)
69	GDP	T	500	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
71	GTP	VC	501	70	33,34,34	0.99	2 (6%)	50,54,54	1.56	8 (16%)
69	GDP	DE	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
69	GDP	CK	500	-	29,30,30	1.16	3 (10%)	45,47,47	1.82	7 (15%)
69	GDP	IJ	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	7 (15%)
71	GTP	VM	501	70	33,34,34	0.95	1 (3%)	50,54,54	1.56	9 (18%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
71	GTP	BE	501	70	33,34,34	0.91	1 (3%)	50,54,54	1.57	9 (18%)
69	GDP	CG	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
71	GTP	LD	501	70	33,34,34	0.95	1 (3%)	50,54,54	1.55	8 (16%)
71	GTP	WE	501	70	33,34,34	0.96	1 (3%)	50,54,54	1.59	10 (20%)
69	GDP	TB	500	-	29,30,30	1.14	3 (10%)	45,47,47	1.75	7 (15%)
69	GDP	JK	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
71	GTP	GC	501	70	33,34,34	0.92	1 (3%)	50,54,54	1.59	9 (18%)
71	GTP	RH	501	70	33,34,34	0.92	1 (3%)	50,54,54	1.57	9 (18%)
69	GDP	BD	500	-	29,30,30	1.16	3 (10%)	45,47,47	1.75	6 (13%)
69	GDP	O	500	-	29,30,30	1.16	3 (10%)	45,47,47	1.75	7 (15%)
71	GTP	DF	501	70	33,34,34	0.96	2 (6%)	50,54,54	1.61	10 (20%)
69	GDP	EJ	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
71	GTP	FK	501	-	33,34,34	0.94	1 (3%)	50,54,54	1.60	9 (18%)
71	GTP	QL	501	-	33,34,34	0.95	1 (3%)	50,54,54	1.57	8 (16%)
69	GDP	FB	500	-	29,30,30	1.17	3 (10%)	45,47,47	1.76	7 (15%)
71	GTP	PI	501	70	33,34,34	0.91	1 (3%)	50,54,54	1.56	8 (16%)
71	GTP	TK	501	70	33,34,34	0.92	1 (3%)	50,54,54	1.54	8 (16%)
71	GTP	KH	501	70	33,34,34	0.93	1 (3%)	50,54,54	1.61	9 (18%)
69	GDP	QA	500	-	29,30,30	1.16	3 (10%)	45,47,47	1.76	7 (15%)
71	GTP	EI	501	70	33,34,34	0.93	1 (3%)	50,54,54	1.57	9 (18%)
69	GDP	QC	500	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
69	GDP	GB	500	-	29,30,30	1.16	3 (10%)	45,47,47	1.76	7 (15%)
69	GDP	GD	500	-	29,30,30	1.17	3 (10%)	45,47,47	1.78	7 (15%)
69	GDP	HH	500	-	29,30,30	1.14	3 (10%)	45,47,47	1.77	7 (15%)
69	GDP	BL	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
71	GTP	K	501	70	33,34,34	0.97	2 (6%)	50,54,54	1.58	9 (18%)
69	GDP	LA	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
69	GDP	HB	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	7 (15%)
74	ATP	2w	501	-	32,33,33	0.32	0	48,52,52	0.28	0
69	GDP	VF	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
71	GTP	NK	501	-	33,34,34	0.90	1 (3%)	50,54,54	1.60	9 (18%)
69	GDP	NL	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.73	7 (15%)
71	GTP	SA	501	70	33,34,34	0.93	1 (3%)	50,54,54	1.56	9 (18%)
69	GDP	P	500	-	29,30,30	1.17	3 (10%)	45,47,47	1.82	7 (15%)
71	GTP	GE	501	70	33,34,34	0.93	1 (3%)	50,54,54	1.58	9 (18%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
69	GDP	VD	500	-	29,30,30	1.14	3 (10%)	45,47,47	1.75	7 (15%)
71	GTP	HE	501	70	33,34,34	0.91	1 (3%)	50,54,54	1.55	9 (18%)
71	GTP	Q	501	70	33,34,34	0.95	1 (3%)	50,54,54	1.57	9 (18%)
69	GDP	UD	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.74	7 (15%)
71	GTP	PC	501	70	33,34,34	0.96	1 (3%)	50,54,54	1.56	8 (16%)
71	GTP	KN	501	70	33,34,34	0.91	1 (3%)	50,54,54	1.57	8 (16%)
71	GTP	IA	501	70	33,34,34	0.91	1 (3%)	50,54,54	1.58	8 (16%)
69	GDP	SJ	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.74	7 (15%)
69	GDP	AJ	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.74	8 (17%)
71	GTP	JB	501	70	33,34,34	0.93	1 (3%)	50,54,54	1.56	8 (16%)
71	GTP	HA	501	70	33,34,34	0.91	1 (3%)	50,54,54	1.54	9 (18%)
69	GDP	SB	500	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
71	GTP	BK	501	70	33,34,34	0.95	1 (3%)	50,54,54	1.55	8 (16%)
71	GTP	PM	501	70	33,34,34	0.96	1 (3%)	50,54,54	1.56	8 (16%)
71	GTP	NA	501	-	33,34,34	0.95	1 (3%)	50,54,54	1.57	9 (18%)
71	GTP	DD	501	70	33,34,34	0.98	2 (6%)	50,54,54	1.56	9 (18%)
71	GTP	AK	501	70	33,34,34	0.98	1 (3%)	50,54,54	1.57	8 (16%)
71	GTP	JL	501	70	33,34,34	0.91	1 (3%)	50,54,54	1.59	8 (16%)
69	GDP	KI	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
69	GDP	VL	500	-	29,30,30	1.16	3 (10%)	45,47,47	1.74	6 (13%)
69	GDP	MD	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
69	GDP	OD	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
71	GTP	AM	501	70	33,34,34	0.95	1 (3%)	50,54,54	1.57	9 (18%)
71	GTP	NM	501	70	33,34,34	0.96	1 (3%)	50,54,54	1.57	8 (16%)
69	GDP	EH	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.72	7 (15%)
71	GTP	GI	501	70	33,34,34	0.91	1 (3%)	50,54,54	1.58	9 (18%)
69	GDP	UL	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
69	GDP	QE	500	-	29,30,30	1.14	3 (10%)	45,47,47	1.77	7 (15%)
71	GTP	WI	501	70	33,34,34	0.96	1 (3%)	50,54,54	1.55	8 (16%)
71	GTP	PG	501	-	33,34,34	0.90	1 (3%)	50,54,54	1.57	8 (16%)
69	GDP	RC	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	7 (15%)
69	GDP	WF	500	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
69	GDP	GL	500	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
71	GTP	GG	501	70	33,34,34	0.91	1 (3%)	50,54,54	1.59	8 (16%)
71	GTP	HG	501	70	33,34,34	0.91	1 (3%)	50,54,54	1.58	8 (16%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
71	GTP	VA	501	70	33,34,34	0.94	1 (3%)	50,54,54	1.57	9 (18%)
69	GDP	VH	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	7 (15%)
71	GTP	MK	501	70	33,34,34	0.95	1 (3%)	50,54,54	1.55	8 (16%)
69	GDP	ND	500	-	29,30,30	1.17	3 (10%)	45,47,47	1.77	8 (17%)
69	GDP	LO	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.73	6 (13%)
69	GDP	TD	500	-	29,30,30	1.14	3 (10%)	45,47,47	1.78	7 (15%)
71	GTP	CJ	501	70	33,34,34	0.98	1 (3%)	50,54,54	1.57	9 (18%)
71	GTP	EK	501	70	33,34,34	0.98	2 (6%)	50,54,54	1.58	9 (18%)
71	GTP	OC	501	70	33,34,34	0.96	1 (3%)	50,54,54	1.57	9 (18%)
69	GDP	MH	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
69	GDP	WB	500	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
69	GDP	A	500	-	29,30,30	1.16	3 (10%)	45,47,47	1.78	7 (15%)
71	GTP	HK	501	70	33,34,34	0.92	1 (3%)	50,54,54	1.60	9 (18%)
74	ATP	2v	501	-	32,33,33	0.29	0	48,52,52	0.31	0
71	GTP	SG	501	70	33,34,34	0.93	1 (3%)	50,54,54	1.59	10 (20%)
71	GTP	KJ	501	70	33,34,34	0.94	1 (3%)	50,54,54	1.58	8 (16%)
71	GTP	CL	501	70	33,34,34	1.00	3 (9%)	50,54,54	1.55	8 (16%)
71	GTP	DL	501	-	33,34,34	0.97	1 (3%)	50,54,54	1.57	10 (20%)
69	GDP	SH	500	-	29,30,30	1.16	3 (10%)	45,47,47	1.77	7 (15%)
69	GDP	BJ	500	-	29,30,30	1.14	3 (10%)	45,47,47	1.74	7 (15%)
69	GDP	PD	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.74	7 (15%)
69	GDP	TF	500	-	29,30,30	1.14	3 (10%)	45,47,47	1.75	6 (13%)
69	GDP	V	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
69	GDP	DA	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.79	7 (15%)
69	GDP	N	500	-	29,30,30	1.16	3 (10%)	45,47,47	1.76	7 (15%)
69	GDP	EB	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.72	6 (13%)
69	GDP	AL	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.73	8 (17%)
71	GTP	NC	501	70	33,34,34	0.96	1 (3%)	50,54,54	1.57	9 (18%)
71	GTP	AE	501	70	33,34,34	0.94	1 (3%)	50,54,54	1.59	9 (18%)
71	GTP	UC	501	70	33,34,34	0.95	1 (3%)	50,54,54	1.58	9 (18%)
69	GDP	OJ	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
69	GDP	PL	500	-	29,30,30	1.16	3 (10%)	45,47,47	1.77	7 (15%)
71	GTP	TC	501	70	33,34,34	0.91	1 (3%)	50,54,54	1.58	8 (16%)
69	GDP	TJ	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	6 (13%)
71	GTP	MM	501	70	33,34,34	0.96	1 (3%)	50,54,54	1.57	9 (18%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
69	GDP	FD	500	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
71	GTP	OE	501	70	33,34,34	0.96	2 (6%)	50,54,54	1.59	10 (20%)
71	GTP	TA	501	70	33,34,34	0.98	2 (6%)	50,54,54	1.58	10 (20%)
71	GTP	PA	501	70	33,34,34	0.97	1 (3%)	50,54,54	1.57	8 (16%)
69	GDP	CE	500	-	29,30,30	1.16	3 (10%)	45,47,47	1.74	7 (15%)
69	GDP	SF	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.74	7 (15%)
71	GTP	VK	501	70	33,34,34	0.94	1 (3%)	50,54,54	1.56	8 (16%)
69	GDP	HD	500	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
71	GTP	WA	501	70	33,34,34	0.97	1 (3%)	50,54,54	1.56	9 (18%)
69	GDP	TL	500	-	29,30,30	1.17	3 (10%)	45,47,47	1.78	7 (15%)
69	GDP	KM	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
69	GDP	TH	500	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	7 (15%)
71	GTP	JN	501	70	33,34,34	0.93	1 (3%)	50,54,54	1.57	9 (18%)
71	GTP	KB	501	70	33,34,34	0.94	1 (3%)	50,54,54	1.56	9 (18%)
69	GDP	S	500	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
69	GDP	NB	500	-	-	3/16/32/32	0/3/3/3
71	GTP	SE	501	70	-	5/22/38/38	0/3/3/3
71	GTP	QD	501	70	-	5/22/38/38	0/3/3/3
71	GTP	TG	501	70	-	1/22/38/38	0/3/3/3
71	GTP	QH	501	70	-	10/22/38/38	0/3/3/3
71	GTP	JH	501	70	-	5/22/38/38	0/3/3/3
71	GTP	IG	501	70	-	7/22/38/38	0/3/3/3
69	GDP	IB	500	-	-	3/16/32/32	0/3/3/3
71	GTP	ME	501	70	-	5/22/38/38	0/3/3/3
69	GDP	WL	500	-	-	1/16/32/32	0/3/3/3
69	GDP	PH	500	-	-	1/16/32/32	0/3/3/3
71	GTP	WG	501	70	-	1/22/38/38	0/3/3/3
71	GTP	GA	501	70	-	8/22/38/38	0/3/3/3
69	GDP	IF	500	-	-	3/16/32/32	0/3/3/3
69	GDP	FF	500	-	-	2/16/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
69	GDP	OL	500	-	-	2/16/32/32	0/3/3/3
69	GDP	PB	500	-	-	1/16/32/32	0/3/3/3
69	GDP	UH	500	-	-	1/16/32/32	0/3/3/3
69	GDP	NH	500	-	-	2/16/32/32	0/3/3/3
71	GTP	UE	501	70	-	9/22/38/38	0/3/3/3
69	GDP	RA	500	-	-	1/16/32/32	0/3/3/3
71	GTP	LJ	501	70	-	4/22/38/38	0/3/3/3
71	GTP	UK	501	70	-	5/22/38/38	0/3/3/3
71	GTP	RL	501	70	-	9/22/38/38	0/3/3/3
69	GDP	AB	500	-	-	1/16/32/32	0/3/3/3
69	GDP	MB	500	-	-	2/16/32/32	0/3/3/3
69	GDP	PF	500	-	-	3/16/32/32	0/3/3/3
69	GDP	NJ	500	-	-	1/16/32/32	0/3/3/3
71	GTP	II	501	70	-	3/22/38/38	0/3/3/3
69	GDP	AF	500	-	-	1/16/32/32	0/3/3/3
69	GDP	HF	500	-	-	2/16/32/32	0/3/3/3
69	GDP	KK	500	-	-	1/16/32/32	0/3/3/3
69	GDP	UF	500	-	-	1/16/32/32	0/3/3/3
69	GDP	DG	500	-	-	2/16/32/32	0/3/3/3
69	GDP	AN	500	-	-	1/16/32/32	0/3/3/3
71	GTP	QJ	501	70	-	4/22/38/38	0/3/3/3
69	GDP	WD	500	-	-	2/16/32/32	0/3/3/3
69	GDP	GF	500	-	-	4/16/32/32	0/3/3/3
71	GTP	IM	501	70	-	4/22/38/38	0/3/3/3
71	GTP	WM	501	70	-	3/22/38/38	0/3/3/3
69	GDP	KC	500	-	-	1/16/32/32	0/3/3/3
71	GTP	RF	501	70	-	1/22/38/38	0/3/3/3
69	GDP	LG	500	-	-	2/16/32/32	0/3/3/3
71	GTP	LH	501	70	-	3/22/38/38	0/3/3/3
69	GDP	H	500	-	-	1/16/32/32	0/3/3/3
71	GTP	NE	501	70	-	4/22/38/38	0/3/3/3
71	GTP	AG	501	70	-	7/22/38/38	0/3/3/3
71	GTP	EA	501	70	-	8/22/38/38	0/3/3/3
71	GTP	DB	501	70	-	3/22/38/38	0/3/3/3
71	GTP	PK	501	70	-	3/22/38/38	0/3/3/3
71	GTP	DJ	501	70	-	4/22/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
71	GTP	SI	501	70	-	3/22/38/38	0/3/3/3
69	GDP	LI	500	-	-	3/16/32/32	0/3/3/3
69	GDP	CC	500	-	-	2/16/32/32	0/3/3/3
71	GTP	FE	501	70	-	5/22/38/38	0/3/3/3
71	GTP	MG	501	70	-	5/22/38/38	0/3/3/3
69	GDP	KA	500	-	-	3/16/32/32	0/3/3/3
69	GDP	ID	500	-	-	1/16/32/32	0/3/3/3
69	GDP	WJ	500	-	-	1/16/32/32	0/3/3/3
69	GDP	HJ	500	-	-	2/16/32/32	0/3/3/3
71	GTP	FA	501	70	-	3/22/38/38	0/3/3/3
71	GTP	JF	501	70	-	3/22/38/38	0/3/3/3
71	GTP	TI	501	70	-	4/22/38/38	0/3/3/3
69	GDP	RG	500	-	-	1/16/32/32	0/3/3/3
69	GDP	AH	500	-	-	2/16/32/32	0/3/3/3
69	GDP	EL	500	-	-	3/16/32/32	0/3/3/3
71	GTP	L	501	70	-	4/22/38/38	0/3/3/3
69	GDP	W	500	-	-	1/16/32/32	0/3/3/3
69	GDP	OF	500	-	-	1/16/32/32	0/3/3/3
71	GTP	VG	501	70	-	4/22/38/38	0/3/3/3
71	GTP	SK	501	70	-	0/22/38/38	0/3/3/3
71	GTP	OG	501	70	-	3/22/38/38	0/3/3/3
71	GTP	KD	501	70	-	3/22/38/38	0/3/3/3
71	GTP	C	501	70	-	6/22/38/38	0/3/3/3
71	GTP	KL	501	70	-	2/22/38/38	0/3/3/3
71	GTP	QF	501	70	-	2/22/38/38	0/3/3/3
69	GDP	JM	500	-	-	0/16/32/32	0/3/3/3
69	GDP	M	500	-	-	3/16/32/32	0/3/3/3
71	GTP	CF	501	70	-	7/22/38/38	0/3/3/3
69	GDP	BF	500	-	-	1/16/32/32	0/3/3/3
71	GTP	JJ	501	70	-	3/22/38/38	0/3/3/3
69	GDP	FH	500	-	-	1/16/32/32	0/3/3/3
71	GTP	R	501	70	-	6/22/38/38	0/3/3/3
71	GTP	EG	501	70	-	6/22/38/38	0/3/3/3
71	GTP	IE	501	70	-	2/22/38/38	0/3/3/3
71	GTP	BG	501	70	-	0/22/38/38	0/3/3/3
69	GDP	U	500	-	-	2/16/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
71	GTP	IK	501	70	-	3/22/38/38	0/3/3/3
71	GTP	GK	501	70	-	3/22/38/38	0/3/3/3
69	GDP	ML	500	-	-	1/16/32/32	0/3/3/3
69	GDP	QI	500	-	-	2/16/32/32	0/3/3/3
69	GDP	LC	500	-	-	2/16/32/32	0/3/3/3
71	GTP	VE	501	70	-	1/22/38/38	0/3/3/3
69	GDP	GH	500	-	-	3/16/32/32	0/3/3/3
71	GTP	RJ	501	-	-	1/22/38/38	0/3/3/3
71	GTP	OK	501	-	-	6/22/38/38	0/3/3/3
71	GTP	LF	501	70	-	2/22/38/38	0/3/3/3
71	GTP	FC	501	70	-	4/22/38/38	0/3/3/3
69	GDP	MF	500	-	-	3/16/32/32	0/3/3/3
71	GTP	IC	501	70	-	4/22/38/38	0/3/3/3
69	GDP	VB	500	-	-	1/16/32/32	0/3/3/3
69	GDP	LK	500	-	-	1/16/32/32	0/3/3/3
71	GTP	BM	501	70	-	6/22/38/38	0/3/3/3
69	GDP	IL	500	-	-	0/16/32/32	0/3/3/3
71	GTP	LL	501	70	-	4/22/38/38	0/3/3/3
69	GDP	LM	500	-	-	1/16/32/32	0/3/3/3
69	GDP	BH	500	-	-	2/16/32/32	0/3/3/3
71	GTP	D	501	-	-	12/22/38/38	0/3/3/3
69	GDP	RE	500	-	-	0/16/32/32	0/3/3/3
71	GTP	RD	501	70	-	7/22/38/38	0/3/3/3
69	GDP	CI	500	-	-	1/16/32/32	0/3/3/3
71	GTP	LB	501	70	-	3/22/38/38	0/3/3/3
69	GDP	UJ	500	-	-	1/16/32/32	0/3/3/3
69	GDP	GJ	500	-	-	2/16/32/32	0/3/3/3
71	GTP	DH	501	70	-	2/22/38/38	0/3/3/3
71	GTP	UA	501	70	-	5/22/38/38	0/3/3/3
69	GDP	JA	500	-	-	1/16/32/32	0/3/3/3
69	GDP	FJ	500	-	-	2/16/32/32	0/3/3/3
71	GTP	NG	501	-	-	6/22/38/38	0/3/3/3
71	GTP	UI	501	70	-	3/22/38/38	0/3/3/3
69	GDP	DI	500	-	-	2/16/32/32	0/3/3/3
71	GTP	OA	501	70	-	4/22/38/38	0/3/3/3
69	GDP	QG	500	-	-	1/16/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
69	GDP	CA	500	-	-	3/16/32/32	0/3/3/3
71	GTP	HM	501	70	-	3/22/38/38	0/3/3/3
69	GDP	BN	500	-	-	2/16/32/32	0/3/3/3
71	GTP	AA	501	70	-	4/22/38/38	0/3/3/3
71	GTP	MI	501	70	-	5/22/38/38	0/3/3/3
69	GDP	G	500	-	-	0/16/32/32	0/3/3/3
69	GDP	JG	500	-	-	2/16/32/32	0/3/3/3
69	GDP	SD	500	-	-	3/16/32/32	0/3/3/3
69	GDP	KG	500	-	-	2/16/32/32	0/3/3/3
69	GDP	VJ	500	-	-	2/16/32/32	0/3/3/3
71	GTP	KF	501	70	-	6/22/38/38	0/3/3/3
69	GDP	DM	500	-	-	1/16/32/32	0/3/3/3
71	GTP	CB	501	70	-	3/22/38/38	0/3/3/3
71	GTP	OI	501	70	-	6/22/38/38	0/3/3/3
69	GDP	HL	500	-	-	1/16/32/32	0/3/3/3
69	GDP	KE	500	-	-	1/16/32/32	0/3/3/3
69	GDP	BB	500	-	-	2/16/32/32	0/3/3/3
71	GTP	J	501	70	-	8/22/38/38	0/3/3/3
71	GTP	FI	501	70	-	3/22/38/38	0/3/3/3
71	GTP	UG	501	70	-	5/22/38/38	0/3/3/3
71	GTP	OM	501	70	-	5/22/38/38	0/3/3/3
71	GTP	SC	501	70	-	6/22/38/38	0/3/3/3
69	GDP	JC	500	-	-	2/16/32/32	0/3/3/3
69	GDP	RI	500	-	-	0/16/32/32	0/3/3/3
71	GTP	LN	501	70	-	3/22/38/38	0/3/3/3
69	GDP	JI	500	-	-	1/16/32/32	0/3/3/3
69	GDP	OH	500	-	-	3/16/32/32	0/3/3/3
69	GDP	MJ	500	-	-	3/16/32/32	0/3/3/3
69	GDP	PJ	500	-	-	3/16/32/32	0/3/3/3
71	GTP	JD	501	70	-	5/22/38/38	0/3/3/3
71	GTP	EE	501	70	-	5/22/38/38	0/3/3/3
69	GDP	JE	500	-	-	1/16/32/32	0/3/3/3
69	GDP	IH	500	-	-	2/16/32/32	0/3/3/3
71	GTP	HC	501	70	-	7/22/38/38	0/3/3/3
69	GDP	DK	500	-	-	1/16/32/32	0/3/3/3
69	GDP	AD	500	-	-	2/16/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
69	GDP	QK	500	-	-	5/16/32/32	0/3/3/3
69	GDP	DC	500	-	-	1/16/32/32	0/3/3/3
69	GDP	E	500	-	-	4/16/32/32	0/3/3/3
71	GTP	HI	501	70	-	2/22/38/38	0/3/3/3
69	GDP	WH	500	-	-	2/16/32/32	0/3/3/3
69	GDP	CM	500	-	-	3/16/32/32	0/3/3/3
71	GTP	TE	501	70	-	6/22/38/38	0/3/3/3
69	GDP	F	500	-	-	3/16/32/32	0/3/3/3
69	GDP	OB	500	-	-	5/16/32/32	0/3/3/3
71	GTP	CH	501	70	-	5/22/38/38	0/3/3/3
69	GDP	RK	500	-	-	2/16/32/32	0/3/3/3
69	GDP	LE	500	-	-	2/16/32/32	0/3/3/3
71	GTP	WC	501	70	-	2/22/38/38	0/3/3/3
71	GTP	EC	501	70	-	4/22/38/38	0/3/3/3
71	GTP	NI	501	70	-	1/22/38/38	0/3/3/3
71	GTP	BA	501	70	-	3/22/38/38	0/3/3/3
69	GDP	NF	500	-	-	3/16/32/32	0/3/3/3
71	GTP	AC	501	70	-	4/22/38/38	0/3/3/3
71	GTP	PE	501	70	-	0/22/38/38	0/3/3/3
71	GTP	MA	501	70	-	0/22/38/38	0/3/3/3
69	GDP	FL	500	-	-	3/16/32/32	0/3/3/3
71	GTP	CD	501	70	-	3/22/38/38	0/3/3/3
71	GTP	RB	501	70	-	3/22/38/38	0/3/3/3
71	GTP	VI	501	70	-	4/22/38/38	0/3/3/3
71	GTP	FG	501	70	-	7/22/38/38	0/3/3/3
69	GDP	MN	500	-	-	2/16/32/32	0/3/3/3
71	GTP	BC	501	70	-	0/22/38/38	0/3/3/3
71	GTP	AI	501	70	-	0/22/38/38	0/3/3/3
71	GTP	WK	501	70	-	5/22/38/38	0/3/3/3
71	GTP	QB	501	70	-	2/22/38/38	0/3/3/3
69	GDP	EF	500	-	-	3/16/32/32	0/3/3/3
71	GTP	BI	501	70	-	6/22/38/38	0/3/3/3
71	GTP	MC	501	70	-	4/22/38/38	0/3/3/3
69	GDP	UB	500	-	-	3/16/32/32	0/3/3/3
69	GDP	I	500	-	-	0/16/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
69	GDP	ED	500	-	-	4/16/32/32	0/3/3/3
69	GDP	T	500	-	-	1/16/32/32	0/3/3/3
71	GTP	VC	501	70	-	6/22/38/38	0/3/3/3
69	GDP	DE	500	-	-	1/16/32/32	0/3/3/3
69	GDP	CK	500	-	-	3/16/32/32	0/3/3/3
69	GDP	IJ	500	-	-	2/16/32/32	0/3/3/3
71	GTP	VM	501	70	-	5/22/38/38	0/3/3/3
71	GTP	BE	501	70	-	9/22/38/38	0/3/3/3
69	GDP	CG	500	-	-	2/16/32/32	0/3/3/3
71	GTP	LD	501	70	-	6/22/38/38	0/3/3/3
71	GTP	WE	501	70	-	8/22/38/38	0/3/3/3
69	GDP	TB	500	-	-	3/16/32/32	0/3/3/3
69	GDP	JK	500	-	-	3/16/32/32	0/3/3/3
71	GTP	GC	501	70	-	3/22/38/38	0/3/3/3
71	GTP	RH	501	70	-	2/22/38/38	0/3/3/3
69	GDP	BD	500	-	-	1/16/32/32	0/3/3/3
69	GDP	O	500	-	-	2/16/32/32	0/3/3/3
71	GTP	DF	501	70	-	6/22/38/38	0/3/3/3
69	GDP	EJ	500	-	-	1/16/32/32	0/3/3/3
71	GTP	FK	501	-	-	3/22/38/38	0/3/3/3
71	GTP	QL	501	-	-	3/22/38/38	0/3/3/3
69	GDP	FB	500	-	-	0/16/32/32	0/3/3/3
71	GTP	PI	501	70	-	4/22/38/38	0/3/3/3
71	GTP	TK	501	70	-	5/22/38/38	0/3/3/3
71	GTP	KH	501	70	-	5/22/38/38	0/3/3/3
69	GDP	QA	500	-	-	1/16/32/32	0/3/3/3
71	GTP	EI	501	70	-	2/22/38/38	0/3/3/3
69	GDP	QC	500	-	-	2/16/32/32	0/3/3/3
69	GDP	GB	500	-	-	1/16/32/32	0/3/3/3
69	GDP	GD	500	-	-	1/16/32/32	0/3/3/3
69	GDP	HH	500	-	-	1/16/32/32	0/3/3/3
69	GDP	BL	500	-	-	3/16/32/32	0/3/3/3
71	GTP	K	501	70	-	2/22/38/38	0/3/3/3
69	GDP	LA	500	-	-	2/16/32/32	0/3/3/3
69	GDP	HB	500	-	-	3/16/32/32	0/3/3/3
74	ATP	2w	501	-	-	7/22/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
69	GDP	VF	500	-	-	1/16/32/32	0/3/3/3
71	GTP	NK	501	-	-	3/22/38/38	0/3/3/3
69	GDP	NL	500	-	-	1/16/32/32	0/3/3/3
71	GTP	SA	501	70	-	3/22/38/38	0/3/3/3
69	GDP	P	500	-	-	2/16/32/32	0/3/3/3
71	GTP	GE	501	70	-	4/22/38/38	0/3/3/3
69	GDP	VD	500	-	-	1/16/32/32	0/3/3/3
71	GTP	HE	501	70	-	4/22/38/38	0/3/3/3
71	GTP	Q	501	70	-	3/22/38/38	0/3/3/3
69	GDP	UD	500	-	-	3/16/32/32	0/3/3/3
71	GTP	PC	501	70	-	3/22/38/38	0/3/3/3
71	GTP	KN	501	70	-	3/22/38/38	0/3/3/3
71	GTP	IA	501	70	-	6/22/38/38	0/3/3/3
69	GDP	SJ	500	-	-	2/16/32/32	0/3/3/3
69	GDP	AJ	500	-	-	1/16/32/32	0/3/3/3
71	GTP	JB	501	70	-	2/22/38/38	0/3/3/3
71	GTP	HA	501	70	-	3/22/38/38	0/3/3/3
69	GDP	SB	500	-	-	3/16/32/32	0/3/3/3
71	GTP	BK	501	70	-	5/22/38/38	0/3/3/3
71	GTP	PM	501	70	-	3/22/38/38	0/3/3/3
71	GTP	NA	501	-	-	7/22/38/38	0/3/3/3
71	GTP	DD	501	70	-	3/22/38/38	0/3/3/3
71	GTP	AK	501	70	-	3/22/38/38	0/3/3/3
71	GTP	JL	501	70	-	3/22/38/38	0/3/3/3
69	GDP	KI	500	-	-	3/16/32/32	0/3/3/3
69	GDP	VL	500	-	-	1/16/32/32	0/3/3/3
69	GDP	MD	500	-	-	1/16/32/32	0/3/3/3
69	GDP	OD	500	-	-	2/16/32/32	0/3/3/3
71	GTP	AM	501	70	-	5/22/38/38	0/3/3/3
71	GTP	NM	501	70	-	4/22/38/38	0/3/3/3
69	GDP	EH	500	-	-	1/16/32/32	0/3/3/3
71	GTP	GI	501	70	-	0/22/38/38	0/3/3/3
69	GDP	UL	500	-	-	1/16/32/32	0/3/3/3
69	GDP	QE	500	-	-	2/16/32/32	0/3/3/3
71	GTP	WI	501	70	-	3/22/38/38	0/3/3/3
71	GTP	PG	501	-	-	5/22/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
69	GDP	RC	500	-	-	1/16/32/32	0/3/3/3
69	GDP	WF	500	-	-	1/16/32/32	0/3/3/3
69	GDP	GL	500	-	-	3/16/32/32	0/3/3/3
71	GTP	GG	501	70	-	4/22/38/38	0/3/3/3
71	GTP	HG	501	70	-	3/22/38/38	0/3/3/3
71	GTP	VA	501	70	-	4/22/38/38	0/3/3/3
69	GDP	VH	500	-	-	1/16/32/32	0/3/3/3
71	GTP	MK	501	70	-	5/22/38/38	0/3/3/3
69	GDP	ND	500	-	-	0/16/32/32	0/3/3/3
69	GDP	LO	500	-	-	3/16/32/32	0/3/3/3
69	GDP	TD	500	-	-	1/16/32/32	0/3/3/3
71	GTP	CJ	501	70	-	3/22/38/38	0/3/3/3
71	GTP	EK	501	70	-	3/22/38/38	0/3/3/3
71	GTP	OC	501	70	-	1/22/38/38	0/3/3/3
69	GDP	MH	500	-	-	1/16/32/32	0/3/3/3
69	GDP	WB	500	-	-	1/16/32/32	0/3/3/3
69	GDP	A	500	-	-	2/16/32/32	0/3/3/3
71	GTP	HK	501	70	-	4/22/38/38	0/3/3/3
74	ATP	2v	501	-	-	5/22/38/38	0/3/3/3
71	GTP	SG	501	70	-	8/22/38/38	0/3/3/3
71	GTP	KJ	501	70	-	3/22/38/38	0/3/3/3
71	GTP	CL	501	70	-	8/22/38/38	0/3/3/3
71	GTP	DL	501	-	-	8/22/38/38	0/3/3/3
69	GDP	SH	500	-	-	2/16/32/32	0/3/3/3
69	GDP	BJ	500	-	-	2/16/32/32	0/3/3/3
69	GDP	PD	500	-	-	4/16/32/32	0/3/3/3
69	GDP	TF	500	-	-	1/16/32/32	0/3/3/3
69	GDP	V	500	-	-	1/16/32/32	0/3/3/3
69	GDP	DA	500	-	-	4/16/32/32	0/3/3/3
69	GDP	N	500	-	-	1/16/32/32	0/3/3/3
69	GDP	EB	500	-	-	4/16/32/32	0/3/3/3
69	GDP	AL	500	-	-	2/16/32/32	0/3/3/3
71	GTP	NC	501	70	-	3/22/38/38	0/3/3/3
71	GTP	AE	501	70	-	4/22/38/38	0/3/3/3
71	GTP	UC	501	70	-	3/22/38/38	0/3/3/3
69	GDP	OJ	500	-	-	3/16/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
69	GDP	PL	500	-	-	1/16/32/32	0/3/3/3
71	GTP	TC	501	70	-	5/22/38/38	0/3/3/3
69	GDP	TJ	500	-	-	2/16/32/32	0/3/3/3
71	GTP	MM	501	70	-	2/22/38/38	0/3/3/3
69	GDP	FD	500	-	-	2/16/32/32	0/3/3/3
71	GTP	OE	501	70	-	4/22/38/38	0/3/3/3
71	GTP	TA	501	70	-	7/22/38/38	0/3/3/3
71	GTP	PA	501	70	-	0/22/38/38	0/3/3/3
69	GDP	CE	500	-	-	1/16/32/32	0/3/3/3
69	GDP	SF	500	-	-	1/16/32/32	0/3/3/3
71	GTP	VK	501	70	-	5/22/38/38	0/3/3/3
69	GDP	HD	500	-	-	3/16/32/32	0/3/3/3
71	GTP	WA	501	70	-	2/22/38/38	0/3/3/3
69	GDP	TL	500	-	-	0/16/32/32	0/3/3/3
69	GDP	KM	500	-	-	2/16/32/32	0/3/3/3
69	GDP	TH	500	-	-	1/16/32/32	0/3/3/3
71	GTP	JN	501	70	-	3/22/38/38	0/3/3/3
71	GTP	KB	501	70	-	4/22/38/38	0/3/3/3
69	GDP	S	500	-	-	2/16/32/32	0/3/3/3

All (685) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
71	IK	501	GTP	PB-O3A	3.42	1.63	1.59
69	QK	500	GDP	C5-C4	3.14	1.47	1.38
69	CK	500	GDP	C5-C4	3.13	1.47	1.38
69	G	500	GDP	C5-C4	3.12	1.47	1.38
69	GB	500	GDP	C5-C4	3.11	1.47	1.38
69	CA	500	GDP	C5-C4	3.11	1.47	1.38
69	BN	500	GDP	C5-C4	3.11	1.47	1.38
69	BL	500	GDP	C5-C4	3.11	1.47	1.38
69	O	500	GDP	C5-C4	3.10	1.47	1.38
69	UB	500	GDP	C5-C4	3.10	1.47	1.38
69	QA	500	GDP	C5-C4	3.10	1.47	1.38
69	NB	500	GDP	C5-C4	3.10	1.47	1.38
69	GD	500	GDP	C5-C4	3.09	1.47	1.38
69	OB	500	GDP	C5-C4	3.09	1.47	1.38
69	NH	500	GDP	C5-C4	3.09	1.47	1.38
69	KE	500	GDP	C5-C4	3.09	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
69	M	500	GDP	C5-C4	3.09	1.47	1.38
69	JA	500	GDP	C5-C4	3.09	1.47	1.38
69	BB	500	GDP	C5-C4	3.09	1.47	1.38
69	JE	500	GDP	C5-C4	3.08	1.47	1.38
69	WL	500	GDP	C5-C4	3.08	1.47	1.38
69	LK	500	GDP	C5-C4	3.08	1.47	1.38
69	WD	500	GDP	C5-C4	3.08	1.47	1.38
69	TL	500	GDP	C5-C4	3.08	1.47	1.38
69	ND	500	GDP	C5-C4	3.08	1.47	1.38
69	CE	500	GDP	C5-C4	3.08	1.47	1.38
69	DK	500	GDP	C5-C4	3.08	1.47	1.38
69	GJ	500	GDP	C5-C4	3.08	1.47	1.38
69	F	500	GDP	C5-C4	3.08	1.47	1.38
69	ML	500	GDP	C5-C4	3.08	1.47	1.38
69	AD	500	GDP	C5-C4	3.08	1.47	1.38
69	KM	500	GDP	C5-C4	3.08	1.47	1.38
69	JC	500	GDP	C5-C4	3.07	1.47	1.38
69	W	500	GDP	C5-C4	3.07	1.47	1.38
69	LM	500	GDP	C5-C4	3.07	1.47	1.38
69	N	500	GDP	C5-C4	3.07	1.47	1.38
69	MH	500	GDP	C5-C4	3.07	1.47	1.38
69	MB	500	GDP	C5-C4	3.07	1.47	1.38
69	KA	500	GDP	C5-C4	3.07	1.47	1.38
69	CG	500	GDP	C5-C4	3.07	1.47	1.38
69	TJ	500	GDP	C5-C4	3.07	1.47	1.38
69	IB	500	GDP	C5-C4	3.07	1.47	1.38
69	LC	500	GDP	C5-C4	3.07	1.47	1.38
69	DC	500	GDP	C5-C4	3.07	1.47	1.38
69	S	500	GDP	C5-C4	3.07	1.47	1.38
69	WH	500	GDP	C5-C4	3.07	1.47	1.38
69	NF	500	GDP	C5-C4	3.07	1.47	1.38
69	KC	500	GDP	C5-C4	3.07	1.47	1.38
69	VF	500	GDP	C5-C4	3.07	1.47	1.38
69	KI	500	GDP	C5-C4	3.06	1.47	1.38
69	FJ	500	GDP	C5-C4	3.06	1.47	1.38
69	BJ	500	GDP	C5-C4	3.06	1.47	1.38
69	CM	500	GDP	C5-C4	3.06	1.47	1.38
69	RK	500	GDP	C5-C4	3.06	1.47	1.38
69	JK	500	GDP	C5-C4	3.06	1.47	1.38
69	NJ	500	GDP	C5-C4	3.06	1.47	1.38
69	GH	500	GDP	C5-C4	3.06	1.47	1.38
69	CI	500	GDP	C5-C4	3.06	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
69	VH	500	GDP	C5-C4	3.06	1.47	1.38
69	ID	500	GDP	C5-C4	3.06	1.47	1.38
69	WF	500	GDP	C5-C4	3.06	1.47	1.38
69	FF	500	GDP	C5-C4	3.06	1.47	1.38
69	HH	500	GDP	C5-C4	3.06	1.47	1.38
69	PB	500	GDP	C5-C4	3.06	1.47	1.38
69	CC	500	GDP	C5-C4	3.06	1.47	1.38
69	H	500	GDP	C5-C4	3.06	1.47	1.38
69	KG	500	GDP	C5-C4	3.06	1.47	1.38
69	WJ	500	GDP	C5-C4	3.06	1.47	1.38
69	JG	500	GDP	C5-C4	3.06	1.47	1.38
69	FB	500	GDP	C5-C4	3.06	1.47	1.38
69	HD	500	GDP	C5-C4	3.06	1.47	1.38
69	T	500	GDP	C5-C4	3.06	1.47	1.38
69	VJ	500	GDP	C5-C4	3.06	1.47	1.38
69	LE	500	GDP	C5-C4	3.06	1.47	1.38
69	SH	500	GDP	C5-C4	3.06	1.47	1.38
69	IL	500	GDP	C5-C4	3.06	1.47	1.38
69	AF	500	GDP	C5-C4	3.06	1.47	1.38
69	AB	500	GDP	C5-C4	3.06	1.47	1.38
69	OD	500	GDP	C5-C4	3.06	1.47	1.38
69	MD	500	GDP	C5-C4	3.06	1.47	1.38
69	BF	500	GDP	C5-C4	3.06	1.47	1.38
69	DI	500	GDP	C5-C4	3.06	1.47	1.38
69	EF	500	GDP	C5-C4	3.06	1.47	1.38
69	TD	500	GDP	C5-C4	3.05	1.47	1.38
69	VD	500	GDP	C5-C4	3.05	1.47	1.38
69	SD	500	GDP	C5-C4	3.05	1.47	1.38
69	FH	500	GDP	C5-C4	3.05	1.47	1.38
69	A	500	GDP	C5-C4	3.05	1.47	1.38
69	SF	500	GDP	C5-C4	3.05	1.47	1.38
69	LG	500	GDP	C5-C4	3.05	1.47	1.38
69	IH	500	GDP	C5-C4	3.05	1.47	1.38
69	JM	500	GDP	C5-C4	3.05	1.47	1.38
69	JI	500	GDP	C5-C4	3.05	1.47	1.38
69	OJ	500	GDP	C5-C4	3.05	1.47	1.38
69	MF	500	GDP	C5-C4	3.05	1.47	1.38
69	OH	500	GDP	C5-C4	3.05	1.47	1.38
69	BD	500	GDP	C5-C4	3.05	1.47	1.38
69	DG	500	GDP	C5-C4	3.05	1.47	1.38
69	RA	500	GDP	C5-C4	3.05	1.47	1.38
69	GL	500	GDP	C5-C4	3.05	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
69	TF	500	GDP	C5-C4	3.05	1.47	1.38
69	SB	500	GDP	C5-C4	3.05	1.47	1.38
69	PJ	500	GDP	C5-C4	3.04	1.47	1.38
69	UH	500	GDP	C5-C4	3.04	1.47	1.38
69	DE	500	GDP	C5-C4	3.04	1.47	1.38
69	HB	500	GDP	C5-C4	3.04	1.47	1.38
69	EJ	500	GDP	C5-C4	3.04	1.47	1.38
69	AL	500	GDP	C5-C4	3.04	1.47	1.38
69	LA	500	GDP	C5-C4	3.04	1.47	1.38
69	HF	500	GDP	C5-C4	3.04	1.47	1.38
69	OF	500	GDP	C5-C4	3.04	1.47	1.38
69	DA	500	GDP	C5-C4	3.04	1.47	1.38
69	BH	500	GDP	C5-C4	3.04	1.47	1.38
69	IF	500	GDP	C5-C4	3.04	1.47	1.38
69	QC	500	GDP	C5-C4	3.04	1.47	1.38
69	P	500	GDP	C5-C4	3.04	1.47	1.38
69	HJ	500	GDP	C5-C4	3.04	1.47	1.38
69	FD	500	GDP	C5-C4	3.04	1.47	1.38
69	RE	500	GDP	C5-C4	3.04	1.47	1.38
69	ED	500	GDP	C5-C4	3.04	1.47	1.38
71	IK	501	GTP	PA-O3A	3.04	1.62	1.59
69	I	500	GDP	C5-C4	3.03	1.47	1.38
69	OL	500	GDP	C5-C4	3.03	1.47	1.38
69	PD	500	GDP	C5-C4	3.03	1.47	1.38
69	LI	500	GDP	C5-C4	3.03	1.47	1.38
69	V	500	GDP	C5-C4	3.03	1.47	1.38
69	UF	500	GDP	C5-C4	3.03	1.47	1.38
69	PL	500	GDP	C5-C4	3.03	1.47	1.38
69	LO	500	GDP	C5-C4	3.03	1.47	1.38
69	HL	500	GDP	C5-C4	3.03	1.47	1.38
69	AN	500	GDP	C5-C4	3.03	1.47	1.38
69	AJ	500	GDP	C5-C4	3.03	1.47	1.38
69	AH	500	GDP	C5-C4	3.03	1.47	1.38
69	IJ	500	GDP	C5-C4	3.03	1.47	1.38
69	QI	500	GDP	C5-C4	3.03	1.47	1.38
69	QE	500	GDP	C5-C4	3.03	1.47	1.38
69	U	500	GDP	C5-C4	3.03	1.47	1.38
69	RI	500	GDP	C5-C4	3.02	1.47	1.38
69	RG	500	GDP	C5-C4	3.02	1.47	1.38
69	UL	500	GDP	C5-C4	3.02	1.47	1.38
69	NL	500	GDP	C5-C4	3.02	1.47	1.38
69	UD	500	GDP	C5-C4	3.02	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
69	VB	500	GDP	C5-C4	3.02	1.47	1.38
69	VL	500	GDP	C5-C4	3.02	1.47	1.38
69	KK	500	GDP	C5-C4	3.02	1.47	1.38
69	WB	500	GDP	C5-C4	3.02	1.47	1.38
69	DM	500	GDP	C5-C4	3.02	1.47	1.38
69	UJ	500	GDP	C5-C4	3.02	1.47	1.38
69	TH	500	GDP	C5-C4	3.02	1.47	1.38
69	EL	500	GDP	C5-C4	3.02	1.47	1.38
69	GF	500	GDP	C5-C4	3.01	1.47	1.38
69	MN	500	GDP	C5-C4	3.01	1.47	1.38
69	QG	500	GDP	C5-C4	3.01	1.47	1.38
69	SJ	500	GDP	C5-C4	3.01	1.47	1.38
69	FL	500	GDP	C5-C4	3.01	1.47	1.38
69	RC	500	GDP	C5-C4	3.01	1.47	1.38
69	TB	500	GDP	C5-C4	3.01	1.47	1.38
69	MJ	500	GDP	C5-C4	3.00	1.47	1.38
69	PF	500	GDP	C5-C4	3.00	1.47	1.38
69	EH	500	GDP	C5-C4	2.99	1.46	1.38
69	EB	500	GDP	C5-C4	2.99	1.46	1.38
69	PH	500	GDP	C5-C4	2.98	1.46	1.38
69	E	500	GDP	C5-C4	2.97	1.46	1.38
69	A	500	GDP	C6-N1	-2.58	1.34	1.38
69	PL	500	GDP	C6-N1	-2.57	1.34	1.38
69	UD	500	GDP	C6-N1	-2.57	1.34	1.38
69	CM	500	GDP	C6-N1	-2.56	1.34	1.38
69	ED	500	GDP	C6-N1	-2.56	1.34	1.38
69	QI	500	GDP	C6-N1	-2.55	1.34	1.38
69	TH	500	GDP	C6-N1	-2.54	1.34	1.38
69	DE	500	GDP	C6-N1	-2.54	1.34	1.38
69	H	500	GDP	C6-N1	-2.54	1.34	1.38
69	BN	500	GDP	C6-N1	-2.53	1.34	1.38
69	VL	500	GDP	C6-N1	-2.53	1.34	1.38
69	N	500	GDP	C6-N1	-2.53	1.34	1.38
69	JI	500	GDP	C6-N1	-2.53	1.34	1.38
69	FL	500	GDP	C6-N1	-2.53	1.34	1.38
69	QG	500	GDP	C6-N1	-2.53	1.34	1.38
69	RE	500	GDP	C6-N1	-2.53	1.34	1.38
69	TL	500	GDP	C6-N1	-2.53	1.34	1.38
69	NB	500	GDP	C6-N1	-2.53	1.34	1.38
69	KG	500	GDP	C6-N1	-2.52	1.34	1.38
69	UB	500	GDP	C6-N1	-2.52	1.34	1.38
69	JK	500	GDP	C6-N1	-2.52	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
69	EL	500	GDP	C6-N1	-2.52	1.34	1.38
69	HF	500	GDP	C6-N1	-2.52	1.34	1.38
69	WD	500	GDP	C6-N1	-2.52	1.34	1.38
69	HL	500	GDP	C6-N1	-2.52	1.34	1.38
69	IH	500	GDP	C6-N1	-2.52	1.34	1.38
69	RC	500	GDP	C6-N1	-2.52	1.34	1.38
69	U	500	GDP	C6-N1	-2.52	1.34	1.38
69	WH	500	GDP	C6-N1	-2.52	1.34	1.38
69	PH	500	GDP	C6-N1	-2.51	1.34	1.38
69	UL	500	GDP	C6-N1	-2.51	1.34	1.38
69	CC	500	GDP	C6-N1	-2.51	1.34	1.38
69	JC	500	GDP	C6-N1	-2.51	1.34	1.38
69	KK	500	GDP	C6-N1	-2.51	1.34	1.38
69	IJ	500	GDP	C6-N1	-2.51	1.34	1.38
69	CA	500	GDP	C6-N1	-2.51	1.34	1.38
69	CE	500	GDP	C6-N1	-2.51	1.34	1.38
69	FD	500	GDP	C6-N1	-2.51	1.34	1.38
69	EB	500	GDP	C6-N1	-2.51	1.34	1.38
69	F	500	GDP	C6-N1	-2.51	1.34	1.38
69	OL	500	GDP	C6-N1	-2.51	1.34	1.38
69	TD	500	GDP	C6-N1	-2.51	1.34	1.38
69	O	500	GDP	C6-N1	-2.51	1.34	1.38
69	IB	500	GDP	C6-N1	-2.51	1.34	1.38
69	RK	500	GDP	C6-N1	-2.51	1.34	1.38
69	DA	500	GDP	C6-N1	-2.51	1.34	1.38
69	PF	500	GDP	C6-N1	-2.51	1.34	1.38
69	JG	500	GDP	C6-N1	-2.50	1.34	1.38
69	GF	500	GDP	C6-N1	-2.50	1.34	1.38
69	BH	500	GDP	C6-N1	-2.50	1.34	1.38
69	DK	500	GDP	C6-N1	-2.50	1.34	1.38
69	HH	500	GDP	C6-N1	-2.50	1.34	1.38
69	NJ	500	GDP	C6-N1	-2.50	1.34	1.38
69	QC	500	GDP	C6-N1	-2.50	1.34	1.38
69	JM	500	GDP	C6-N1	-2.50	1.34	1.38
69	VB	500	GDP	C6-N1	-2.50	1.34	1.38
69	BD	500	GDP	C6-N1	-2.50	1.34	1.38
69	DC	500	GDP	C6-N1	-2.50	1.34	1.38
69	FH	500	GDP	C6-N1	-2.50	1.34	1.38
69	HD	500	GDP	C6-N1	-2.50	1.34	1.38
69	OJ	500	GDP	C6-N1	-2.50	1.34	1.38
69	NF	500	GDP	C6-N1	-2.50	1.34	1.38
69	UH	500	GDP	C6-N1	-2.50	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
69	LI	500	GDP	C6-N1	-2.50	1.34	1.38
69	ID	500	GDP	C6-N1	-2.50	1.34	1.38
69	SJ	500	GDP	C6-N1	-2.49	1.34	1.38
69	KE	500	GDP	C6-N1	-2.49	1.34	1.38
69	WJ	500	GDP	C6-N1	-2.49	1.34	1.38
69	GD	500	GDP	C6-N1	-2.49	1.34	1.38
69	LA	500	GDP	C6-N1	-2.49	1.34	1.38
69	SD	500	GDP	C6-N1	-2.49	1.34	1.38
69	VF	500	GDP	C6-N1	-2.49	1.34	1.38
69	AJ	500	GDP	C6-N1	-2.49	1.34	1.38
69	FF	500	GDP	C6-N1	-2.49	1.34	1.38
69	LK	500	GDP	C6-N1	-2.49	1.34	1.38
69	BF	500	GDP	C6-N1	-2.49	1.34	1.38
69	VJ	500	GDP	C6-N1	-2.49	1.34	1.38
69	TB	500	GDP	C6-N1	-2.49	1.34	1.38
69	QA	500	GDP	C6-N1	-2.49	1.34	1.38
69	V	500	GDP	C6-N1	-2.49	1.34	1.38
69	JA	500	GDP	C6-N1	-2.48	1.34	1.38
69	AH	500	GDP	C6-N1	-2.48	1.34	1.38
69	E	500	GDP	C6-N1	-2.48	1.34	1.38
69	OB	500	GDP	C6-N1	-2.48	1.34	1.38
69	VD	500	GDP	C6-N1	-2.48	1.34	1.38
69	ML	500	GDP	C6-N1	-2.48	1.34	1.38
69	S	500	GDP	C6-N1	-2.48	1.34	1.38
69	MH	500	GDP	C6-N1	-2.48	1.34	1.38
69	PJ	500	GDP	C6-N1	-2.48	1.34	1.38
69	RG	500	GDP	C6-N1	-2.48	1.34	1.38
69	GJ	500	GDP	C6-N1	-2.48	1.34	1.38
69	KM	500	GDP	C6-N1	-2.48	1.34	1.38
69	PD	500	GDP	C6-N1	-2.48	1.34	1.38
69	NH	500	GDP	C6-N1	-2.48	1.34	1.38
69	SF	500	GDP	C6-N1	-2.48	1.34	1.38
69	WL	500	GDP	C6-N1	-2.48	1.34	1.38
69	MB	500	GDP	C6-N1	-2.48	1.34	1.38
69	BB	500	GDP	C6-N1	-2.48	1.34	1.38
69	I	500	GDP	C6-N1	-2.48	1.34	1.38
69	WB	500	GDP	C6-N1	-2.48	1.34	1.38
69	AL	500	GDP	C6-N1	-2.48	1.34	1.38
69	FB	500	GDP	C6-N1	-2.48	1.34	1.38
69	G	500	GDP	C6-N1	-2.48	1.34	1.38
69	LG	500	GDP	C6-N1	-2.48	1.34	1.38
69	OD	500	GDP	C6-N1	-2.47	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
69	RI	500	GDP	C6-N1	-2.47	1.34	1.38
69	SH	500	GDP	C6-N1	-2.47	1.34	1.38
69	LM	500	GDP	C6-N1	-2.47	1.34	1.38
69	MD	500	GDP	C6-N1	-2.47	1.34	1.38
69	DI	500	GDP	C6-N1	-2.47	1.34	1.38
69	EH	500	GDP	C6-N1	-2.47	1.34	1.38
69	PB	500	GDP	C6-N1	-2.47	1.34	1.38
69	SB	500	GDP	C6-N1	-2.47	1.34	1.38
69	KI	500	GDP	C6-N1	-2.47	1.34	1.38
69	QE	500	GDP	C6-N1	-2.47	1.34	1.38
69	DM	500	GDP	C6-N1	-2.47	1.34	1.38
69	IL	500	GDP	C6-N1	-2.46	1.34	1.38
69	GH	500	GDP	C6-N1	-2.46	1.34	1.38
69	NL	500	GDP	C6-N1	-2.46	1.34	1.38
69	CG	500	GDP	C6-N1	-2.46	1.34	1.38
69	FJ	500	GDP	C6-N1	-2.46	1.34	1.38
69	UJ	500	GDP	C6-N1	-2.46	1.34	1.38
69	JE	500	GDP	C6-N1	-2.46	1.34	1.38
69	UF	500	GDP	C6-N1	-2.46	1.34	1.38
69	EJ	500	GDP	C6-N1	-2.46	1.34	1.38
69	P	500	GDP	C6-N1	-2.46	1.34	1.38
69	WF	500	GDP	C6-N1	-2.46	1.34	1.38
69	DG	500	GDP	C6-N1	-2.45	1.34	1.38
69	HJ	500	GDP	C6-N1	-2.45	1.34	1.38
69	BL	500	GDP	C6-N1	-2.45	1.34	1.38
69	LO	500	GDP	C6-N1	-2.45	1.34	1.38
69	AD	500	GDP	C6-N1	-2.45	1.34	1.38
69	EF	500	GDP	C6-N1	-2.45	1.34	1.38
69	GL	500	GDP	C6-N1	-2.45	1.34	1.38
69	GB	500	GDP	C6-N1	-2.45	1.34	1.38
69	MF	500	GDP	C6-N1	-2.45	1.34	1.38
69	CK	500	GDP	C6-N1	-2.45	1.34	1.38
69	AN	500	GDP	C6-N1	-2.45	1.34	1.38
69	HB	500	GDP	C6-N1	-2.45	1.34	1.38
69	LE	500	GDP	C6-N1	-2.45	1.34	1.38
69	TF	500	GDP	C6-N1	-2.45	1.34	1.38
69	OH	500	GDP	C6-N1	-2.45	1.34	1.38
69	M	500	GDP	C6-N1	-2.44	1.34	1.38
69	MN	500	GDP	C6-N1	-2.44	1.34	1.38
69	KC	500	GDP	C6-N1	-2.44	1.34	1.38
71	IK	501	GTP	PB-O3B	2.44	1.62	1.59
69	CI	500	GDP	C6-N1	-2.44	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
69	P	500	GDP	C5-N7	-2.43	1.34	1.39
69	OF	500	GDP	C6-N1	-2.43	1.34	1.38
69	AB	500	GDP	C6-N1	-2.43	1.34	1.38
69	IF	500	GDP	C6-N1	-2.43	1.34	1.38
69	ND	500	GDP	C6-N1	-2.43	1.34	1.38
69	RA	500	GDP	C6-N1	-2.43	1.34	1.38
69	KA	500	GDP	C6-N1	-2.43	1.34	1.38
69	LC	500	GDP	C6-N1	-2.42	1.34	1.38
69	W	500	GDP	C6-N1	-2.42	1.34	1.38
69	VH	500	GDP	C6-N1	-2.42	1.34	1.38
69	MJ	500	GDP	C6-N1	-2.42	1.34	1.38
69	TJ	500	GDP	C6-N1	-2.41	1.34	1.38
69	QK	500	GDP	C6-N1	-2.41	1.34	1.38
69	AF	500	GDP	C6-N1	-2.41	1.34	1.38
69	BJ	500	GDP	C6-N1	-2.41	1.34	1.38
69	T	500	GDP	C6-N1	-2.40	1.34	1.38
71	CD	501	GTP	PB-O3B	2.39	1.62	1.59
71	NG	501	GTP	PA-O3A	2.37	1.62	1.59
71	CF	501	GTP	PB-O3B	2.36	1.62	1.59
71	EE	501	GTP	PB-O3B	2.33	1.62	1.59
71	TA	501	GTP	PB-O3B	2.31	1.62	1.59
71	D	501	GTP	PA-O3A	2.29	1.62	1.59
71	QD	501	GTP	PB-O3B	2.25	1.61	1.59
71	IC	501	GTP	C2-N3	2.25	1.38	1.33
71	VC	501	GTP	PB-O3B	2.25	1.61	1.59
71	DF	501	GTP	PB-O3B	2.24	1.61	1.59
71	VG	501	GTP	PB-O3B	2.24	1.61	1.59
69	PL	500	GDP	C5-N7	-2.24	1.34	1.39
71	EK	501	GTP	PB-O3B	2.23	1.61	1.59
71	HK	501	GTP	C2-N3	2.23	1.38	1.33
71	HC	501	GTP	C2-N3	2.22	1.38	1.33
71	BG	501	GTP	C2-N3	2.22	1.38	1.33
71	KL	501	GTP	C2-N3	2.21	1.38	1.33
71	VE	501	GTP	C2-N3	2.21	1.38	1.33
71	KH	501	GTP	C2-N3	2.20	1.38	1.33
71	FE	501	GTP	C2-N3	2.20	1.38	1.33
71	IK	501	GTP	C2-N3	2.20	1.38	1.33
71	BC	501	GTP	C2-N3	2.20	1.38	1.33
71	OK	501	GTP	C2-N3	2.20	1.38	1.33
69	WH	500	GDP	C5-N7	-2.19	1.34	1.39
69	CA	500	GDP	C5-N7	-2.19	1.34	1.39
69	OB	500	GDP	C5-N7	-2.19	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
71	QF	501	GTP	C2-N3	2.19	1.38	1.33
71	QH	501	GTP	C2-N3	2.19	1.38	1.33
71	NM	501	GTP	C2-N3	2.19	1.38	1.33
69	U	500	GDP	C5-N7	-2.19	1.34	1.39
71	SG	501	GTP	C2-N3	2.18	1.38	1.33
71	LH	501	GTP	C2-N3	2.18	1.38	1.33
71	NE	501	GTP	C2-N3	2.18	1.38	1.33
71	IG	501	GTP	C2-N3	2.17	1.38	1.33
71	TI	501	GTP	C2-N3	2.17	1.38	1.33
71	II	501	GTP	C2-N3	2.17	1.38	1.33
71	DH	501	GTP	C2-N3	2.17	1.38	1.33
71	OE	501	GTP	PB-O3B	2.17	1.61	1.59
71	NG	501	GTP	C2-N3	2.17	1.38	1.33
69	SH	500	GDP	C5-N7	-2.17	1.34	1.39
71	CH	501	GTP	C2-N3	2.17	1.38	1.33
71	EC	501	GTP	C2-N3	2.17	1.38	1.33
69	QG	500	GDP	C5-N7	-2.17	1.34	1.39
71	AC	501	GTP	C2-N3	2.16	1.38	1.33
71	IM	501	GTP	C2-N3	2.16	1.38	1.33
69	UB	500	GDP	C5-N7	-2.16	1.34	1.39
71	UI	501	GTP	C2-N3	2.16	1.38	1.33
71	AK	501	GTP	C2-N3	2.16	1.38	1.33
71	IA	501	GTP	C2-N3	2.16	1.38	1.33
71	IK	501	GTP	O4'-C4'	-2.16	1.40	1.45
71	HE	501	GTP	C2-N3	2.16	1.38	1.33
71	WG	501	GTP	C2-N3	2.16	1.38	1.33
71	VG	501	GTP	C2-N3	2.16	1.38	1.33
71	HM	501	GTP	C2-N3	2.16	1.38	1.33
71	UC	501	GTP	C2-N3	2.16	1.38	1.33
71	RD	501	GTP	C2-N3	2.15	1.38	1.33
71	VC	501	GTP	C2-N3	2.15	1.38	1.33
71	WE	501	GTP	C2-N3	2.15	1.38	1.33
71	AM	501	GTP	C2-N3	2.15	1.38	1.33
71	KL	501	GTP	PB-O3A	2.15	1.61	1.59
69	CM	500	GDP	C5-N7	-2.15	1.34	1.39
71	VM	501	GTP	C2-N3	2.15	1.38	1.33
71	BI	501	GTP	C2-N3	2.15	1.38	1.33
71	RD	501	GTP	PB-O3B	2.15	1.61	1.59
71	NI	501	GTP	C2-N3	2.15	1.38	1.33
71	Q	501	GTP	C2-N3	2.15	1.38	1.33
71	J	501	GTP	C2-N3	2.15	1.38	1.33
71	CF	501	GTP	C2-N3	2.15	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
69	LI	500	GDP	C5-N7	-2.15	1.34	1.39
71	FK	501	GTP	C2-N3	2.15	1.38	1.33
71	IE	501	GTP	C2-N3	2.15	1.38	1.33
71	KB	501	GTP	C2-N3	2.15	1.38	1.33
69	GD	500	GDP	C5-N7	-2.15	1.34	1.39
69	UH	500	GDP	C5-N7	-2.14	1.34	1.39
71	KN	501	GTP	C2-N3	2.14	1.38	1.33
69	FJ	500	GDP	C5-N7	-2.14	1.34	1.39
71	AI	501	GTP	C2-N3	2.14	1.38	1.33
71	NC	501	GTP	C2-N3	2.14	1.38	1.33
69	ED	500	GDP	C5-N7	-2.14	1.34	1.39
69	WD	500	GDP	C5-N7	-2.14	1.34	1.39
71	JB	501	GTP	C2-N3	2.14	1.38	1.33
71	AA	501	GTP	C2-N3	2.14	1.38	1.33
71	JH	501	GTP	C2-N3	2.14	1.38	1.33
71	DF	501	GTP	C2-N3	2.14	1.38	1.33
71	LJ	501	GTP	C2-N3	2.14	1.38	1.33
71	BA	501	GTP	C2-N3	2.14	1.38	1.33
69	QI	500	GDP	C5-N7	-2.14	1.34	1.39
71	BM	501	GTP	PB-O3B	2.14	1.61	1.59
71	BE	501	GTP	C2-N3	2.14	1.38	1.33
71	JF	501	GTP	C2-N3	2.14	1.38	1.33
71	R	501	GTP	C2-N3	2.14	1.38	1.33
69	HL	500	GDP	C5-N7	-2.14	1.34	1.39
69	V	500	GDP	C5-N7	-2.14	1.34	1.39
71	EE	501	GTP	C2-N3	2.14	1.38	1.33
71	VI	501	GTP	C2-N3	2.14	1.38	1.33
69	KI	500	GDP	C5-N7	-2.14	1.34	1.39
71	MK	501	GTP	C2-N3	2.14	1.38	1.33
69	FF	500	GDP	C5-N7	-2.14	1.34	1.39
71	PA	501	GTP	C2-N3	2.13	1.38	1.33
71	KD	501	GTP	C2-N3	2.13	1.38	1.33
71	GI	501	GTP	C2-N3	2.13	1.38	1.33
71	OI	501	GTP	C2-N3	2.13	1.38	1.33
71	KF	501	GTP	C2-N3	2.13	1.38	1.33
69	UD	500	GDP	C5-N7	-2.13	1.34	1.39
71	SC	501	GTP	C2-N3	2.13	1.38	1.33
69	RK	500	GDP	C5-N7	-2.13	1.34	1.39
71	EA	501	GTP	C2-N3	2.13	1.38	1.33
71	JN	501	GTP	C2-N3	2.13	1.38	1.33
71	L	501	GTP	C2-N3	2.13	1.38	1.33
69	ND	500	GDP	C5-N7	-2.13	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
71	IC	501	GTP	PB-O3B	2.13	1.61	1.59
71	NG	501	GTP	PB-O3A	2.13	1.61	1.59
71	GA	501	GTP	C2-N3	2.13	1.38	1.33
71	CD	501	GTP	C2-N3	2.13	1.38	1.33
71	OM	501	GTP	C2-N3	2.13	1.38	1.33
71	EI	501	GTP	C2-N3	2.13	1.38	1.33
71	VA	501	GTP	C2-N3	2.13	1.38	1.33
71	K	501	GTP	PB-O3A	2.13	1.61	1.59
71	UG	501	GTP	C2-N3	2.13	1.38	1.33
71	C	501	GTP	C2-N3	2.13	1.38	1.33
71	UK	501	GTP	C2-N3	2.13	1.38	1.33
71	D	501	GTP	C2-N3	2.12	1.38	1.33
71	EG	501	GTP	C2-N3	2.12	1.38	1.33
71	K	501	GTP	C2-N3	2.12	1.38	1.33
69	VL	500	GDP	C5-N7	-2.12	1.34	1.39
69	W	500	GDP	C5-N7	-2.12	1.34	1.39
71	FI	501	GTP	C2-N3	2.12	1.38	1.33
69	FB	500	GDP	C5-N7	-2.12	1.34	1.39
71	AG	501	GTP	C2-N3	2.12	1.38	1.33
71	FC	501	GTP	C2-N3	2.12	1.38	1.33
71	HA	501	GTP	C2-N3	2.12	1.38	1.33
71	OA	501	GTP	C2-N3	2.12	1.38	1.33
71	TE	501	GTP	C2-N3	2.12	1.38	1.33
69	DG	500	GDP	C5-N7	-2.12	1.34	1.39
69	NH	500	GDP	C5-N7	-2.12	1.34	1.39
71	JJ	501	GTP	C2-N3	2.12	1.38	1.33
69	UL	500	GDP	C5-N7	-2.12	1.34	1.39
69	BN	500	GDP	C5-N7	-2.12	1.34	1.39
71	MG	501	GTP	C2-N3	2.12	1.38	1.33
71	BK	501	GTP	C2-N3	2.12	1.38	1.33
71	SK	501	GTP	C2-N3	2.12	1.38	1.33
69	UF	500	GDP	C5-N7	-2.12	1.34	1.39
69	IB	500	GDP	C5-N7	-2.12	1.34	1.39
69	KG	500	GDP	C5-N7	-2.12	1.34	1.39
71	DL	501	GTP	C2-N3	2.12	1.38	1.33
69	IH	500	GDP	C5-N7	-2.12	1.34	1.39
71	UE	501	GTP	C2-N3	2.12	1.38	1.33
69	IJ	500	GDP	C5-N7	-2.12	1.34	1.39
69	S	500	GDP	C5-N7	-2.12	1.34	1.39
71	DJ	501	GTP	C2-N3	2.12	1.38	1.33
71	QJ	501	GTP	PB-O3B	2.12	1.61	1.59
71	WM	501	GTP	C2-N3	2.11	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
69	M	500	GDP	C5-N7	-2.11	1.34	1.39
69	A	500	GDP	C5-N7	-2.11	1.34	1.39
69	EB	500	GDP	C5-N7	-2.11	1.34	1.39
69	FD	500	GDP	C5-N7	-2.11	1.34	1.39
69	O	500	GDP	C5-N7	-2.11	1.34	1.39
71	WC	501	GTP	C2-N3	2.11	1.38	1.33
71	UA	501	GTP	C2-N3	2.11	1.38	1.33
71	QL	501	GTP	C2-N3	2.11	1.38	1.33
71	DB	501	GTP	C2-N3	2.11	1.38	1.33
71	WA	501	GTP	C2-N3	2.11	1.38	1.33
69	RG	500	GDP	C5-N7	-2.11	1.34	1.39
69	PJ	500	GDP	C5-N7	-2.11	1.34	1.39
71	OE	501	GTP	C2-N3	2.11	1.38	1.33
69	VF	500	GDP	C5-N7	-2.11	1.34	1.39
71	JL	501	GTP	C2-N3	2.11	1.38	1.33
71	AE	501	GTP	C2-N3	2.11	1.38	1.33
69	JI	500	GDP	C5-N7	-2.11	1.34	1.39
69	NF	500	GDP	C5-N7	-2.11	1.34	1.39
71	FG	501	GTP	C2-N3	2.11	1.38	1.33
69	PB	500	GDP	C5-N7	-2.11	1.34	1.39
69	QA	500	GDP	C5-N7	-2.11	1.34	1.39
69	WL	500	GDP	C5-N7	-2.11	1.34	1.39
71	PM	501	GTP	C2-N3	2.11	1.38	1.33
69	H	500	GDP	C5-N7	-2.11	1.34	1.39
71	TG	501	GTP	C2-N3	2.11	1.38	1.33
69	BJ	500	GDP	C5-N7	-2.11	1.34	1.39
69	NB	500	GDP	C5-N7	-2.11	1.34	1.39
71	RH	501	GTP	C2-N3	2.10	1.38	1.33
71	MC	501	GTP	C2-N3	2.10	1.38	1.33
71	RF	501	GTP	C2-N3	2.10	1.38	1.33
71	LL	501	GTP	C2-N3	2.10	1.38	1.33
71	PC	501	GTP	C2-N3	2.10	1.38	1.33
71	HG	501	GTP	C2-N3	2.10	1.38	1.33
69	DI	500	GDP	C5-N7	-2.10	1.34	1.39
69	LE	500	GDP	C5-N7	-2.10	1.34	1.39
69	VH	500	GDP	C5-N7	-2.10	1.34	1.39
69	VJ	500	GDP	C5-N7	-2.10	1.34	1.39
69	NJ	500	GDP	C5-N7	-2.10	1.34	1.39
69	QC	500	GDP	C5-N7	-2.10	1.34	1.39
71	HI	501	GTP	C2-N3	2.10	1.38	1.33
71	PE	501	GTP	C2-N3	2.10	1.38	1.33
69	EH	500	GDP	C5-N7	-2.10	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
69	MH	500	GDP	C5-N7	-2.10	1.34	1.39
69	PD	500	GDP	C5-N7	-2.10	1.34	1.39
71	BC	501	GTP	PA-O3A	2.10	1.61	1.59
69	OL	500	GDP	C5-N7	-2.10	1.34	1.39
69	SF	500	GDP	C5-N7	-2.10	1.34	1.39
69	RA	500	GDP	C5-N7	-2.10	1.34	1.39
69	AD	500	GDP	C5-N7	-2.10	1.34	1.39
69	BH	500	GDP	C5-N7	-2.10	1.34	1.39
69	CC	500	GDP	C5-N7	-2.10	1.34	1.39
69	MD	500	GDP	C5-N7	-2.10	1.34	1.39
71	NA	501	GTP	C2-N3	2.10	1.38	1.33
69	AN	500	GDP	C5-N7	-2.09	1.34	1.39
69	GH	500	GDP	C5-N7	-2.09	1.34	1.39
69	RE	500	GDP	C5-N7	-2.09	1.34	1.39
71	GE	501	GTP	C2-N3	2.09	1.38	1.33
71	RL	501	GTP	C2-N3	2.09	1.38	1.33
71	VK	501	GTP	C2-N3	2.09	1.38	1.33
69	OD	500	GDP	C5-N7	-2.09	1.34	1.39
69	UJ	500	GDP	C5-N7	-2.09	1.34	1.39
71	CJ	501	GTP	C2-N3	2.09	1.38	1.33
71	MA	501	GTP	C2-N3	2.09	1.38	1.33
69	BL	500	GDP	C5-N7	-2.09	1.34	1.39
69	JA	500	GDP	C5-N7	-2.09	1.34	1.39
69	ML	500	GDP	C5-N7	-2.09	1.34	1.39
69	TH	500	GDP	C5-N7	-2.09	1.34	1.39
69	AH	500	GDP	C5-N7	-2.09	1.34	1.39
69	OH	500	GDP	C5-N7	-2.09	1.34	1.39
69	WJ	500	GDP	C5-N7	-2.09	1.34	1.39
71	KJ	501	GTP	C2-N3	2.09	1.38	1.33
69	JE	500	GDP	C5-N7	-2.09	1.34	1.39
71	GK	501	GTP	C2-N3	2.09	1.38	1.33
71	OG	501	GTP	C2-N3	2.09	1.38	1.33
71	QJ	501	GTP	C2-N3	2.09	1.38	1.33
69	SD	500	GDP	C5-N7	-2.09	1.34	1.39
69	LM	500	GDP	C5-N7	-2.09	1.34	1.39
69	WF	500	GDP	C5-N7	-2.09	1.34	1.39
71	SA	501	GTP	C2-N3	2.09	1.38	1.33
69	TL	500	GDP	C5-N7	-2.09	1.34	1.39
71	MM	501	GTP	C2-N3	2.09	1.38	1.33
69	MN	500	GDP	C5-N7	-2.09	1.34	1.39
69	OF	500	GDP	C5-N7	-2.09	1.34	1.39
69	EF	500	GDP	C5-N7	-2.09	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
71	TA	501	GTP	C2-N3	2.08	1.38	1.33
71	CL	501	GTP	PA-O3A	2.08	1.61	1.59
69	F	500	GDP	C5-N7	-2.08	1.34	1.39
69	GF	500	GDP	C5-N7	-2.08	1.34	1.39
71	FA	501	GTP	C2-N3	2.08	1.38	1.33
69	DK	500	GDP	C5-N7	-2.08	1.34	1.39
71	EK	501	GTP	C2-N3	2.08	1.38	1.33
69	PF	500	GDP	C5-N7	-2.08	1.34	1.39
69	SJ	500	GDP	C5-N7	-2.08	1.34	1.39
69	MJ	500	GDP	C5-N7	-2.08	1.34	1.39
69	FL	500	GDP	C5-N7	-2.08	1.34	1.39
69	IF	500	GDP	C5-N7	-2.08	1.34	1.39
69	CI	500	GDP	C5-N7	-2.08	1.34	1.39
69	I	500	GDP	C5-N7	-2.08	1.34	1.39
69	KE	500	GDP	C5-N7	-2.08	1.34	1.39
69	GJ	500	GDP	C5-N7	-2.08	1.34	1.39
69	QE	500	GDP	C5-N7	-2.08	1.34	1.39
71	KF	501	GTP	PB-O3B	2.08	1.61	1.59
71	NE	501	GTP	PB-O3B	2.08	1.61	1.59
69	AJ	500	GDP	C5-N7	-2.08	1.34	1.39
69	LG	500	GDP	C5-N7	-2.08	1.34	1.39
69	RI	500	GDP	C5-N7	-2.08	1.34	1.39
69	CG	500	GDP	C5-N7	-2.08	1.34	1.39
71	CL	501	GTP	C2-N3	2.08	1.38	1.33
69	IL	500	GDP	C5-N7	-2.08	1.34	1.39
69	CK	500	GDP	C5-N7	-2.07	1.34	1.39
69	OJ	500	GDP	C5-N7	-2.07	1.34	1.39
69	TD	500	GDP	C5-N7	-2.07	1.34	1.39
69	FH	500	GDP	C5-N7	-2.07	1.34	1.39
69	KM	500	GDP	C5-N7	-2.07	1.34	1.39
69	RC	500	GDP	C5-N7	-2.07	1.34	1.39
69	JK	500	GDP	C5-N7	-2.07	1.34	1.39
71	NK	501	GTP	C2-N3	2.07	1.38	1.33
69	GL	500	GDP	C5-N7	-2.07	1.34	1.39
71	WI	501	GTP	C2-N3	2.07	1.38	1.33
69	KK	500	GDP	C5-N7	-2.07	1.34	1.39
69	AL	500	GDP	C5-N7	-2.07	1.34	1.39
71	LD	501	GTP	C2-N3	2.07	1.38	1.33
71	WK	501	GTP	C2-N3	2.07	1.38	1.33
69	HF	500	GDP	C5-N7	-2.07	1.34	1.39
71	BM	501	GTP	C2-N3	2.07	1.38	1.33
69	DC	500	GDP	C5-N7	-2.07	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
69	LA	500	GDP	C5-N7	-2.07	1.34	1.39
71	LB	501	GTP	C2-N3	2.07	1.38	1.33
69	CE	500	GDP	C5-N7	-2.07	1.34	1.39
71	PI	501	GTP	C2-N3	2.07	1.38	1.33
71	LN	501	GTP	C2-N3	2.07	1.38	1.33
69	HJ	500	GDP	C5-N7	-2.07	1.34	1.39
71	HC	501	GTP	PB-O3B	2.07	1.61	1.59
71	LB	501	GTP	PA-O3A	2.07	1.61	1.59
69	DE	500	GDP	C5-N7	-2.06	1.34	1.39
69	LK	500	GDP	C5-N7	-2.06	1.34	1.39
69	JG	500	GDP	C5-N7	-2.06	1.34	1.39
71	JD	501	GTP	C2-N3	2.06	1.38	1.33
71	TK	501	GTP	C2-N3	2.06	1.38	1.33
69	AB	500	GDP	C5-N7	-2.06	1.34	1.39
69	E	500	GDP	C5-N7	-2.06	1.34	1.39
69	EJ	500	GDP	C5-N7	-2.06	1.34	1.39
69	AF	500	GDP	C5-N7	-2.06	1.34	1.39
69	LO	500	GDP	C5-N7	-2.06	1.34	1.39
71	CL	501	GTP	PB-O3A	2.06	1.61	1.59
69	VD	500	GDP	C5-N7	-2.06	1.34	1.39
69	TB	500	GDP	C5-N7	-2.06	1.34	1.39
71	RB	501	GTP	C2-N3	2.06	1.38	1.33
71	DD	501	GTP	C2-N3	2.06	1.38	1.33
69	TJ	500	GDP	C5-N7	-2.06	1.35	1.39
71	RJ	501	GTP	C2-N3	2.05	1.38	1.33
69	JM	500	GDP	C5-N7	-2.05	1.35	1.39
69	VB	500	GDP	C5-N7	-2.05	1.35	1.39
71	MI	501	GTP	C2-N3	2.05	1.38	1.33
69	DA	500	GDP	C5-N7	-2.05	1.35	1.39
69	HH	500	GDP	C5-N7	-2.05	1.35	1.39
69	KA	500	GDP	C5-N7	-2.05	1.35	1.39
71	ME	501	GTP	C2-N3	2.05	1.38	1.33
69	MF	500	GDP	C5-N7	-2.05	1.35	1.39
69	BD	500	GDP	C5-N7	-2.05	1.35	1.39
71	PK	501	GTP	C2-N3	2.05	1.38	1.33
69	BB	500	GDP	C5-N7	-2.05	1.35	1.39
69	G	500	GDP	C5-N7	-2.05	1.35	1.39
71	DB	501	GTP	PA-O3A	2.05	1.61	1.59
71	CB	501	GTP	C2-N3	2.05	1.38	1.33
71	GG	501	GTP	C2-N3	2.05	1.38	1.33
71	DD	501	GTP	PA-O3A	2.05	1.61	1.59
69	BF	500	GDP	C5-N7	-2.05	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
69	GB	500	GDP	C5-N7	-2.05	1.35	1.39
69	LC	500	GDP	C5-N7	-2.04	1.35	1.39
69	SB	500	GDP	C5-N7	-2.04	1.35	1.39
71	DJ	501	GTP	PA-O3A	2.04	1.61	1.59
71	TC	501	GTP	C2-N3	2.04	1.38	1.33
69	PH	500	GDP	C5-N7	-2.04	1.35	1.39
69	QK	500	GDP	C5-N7	-2.04	1.35	1.39
69	N	500	GDP	C5-N7	-2.04	1.35	1.39
71	BI	501	GTP	PB-O3B	2.04	1.61	1.59
71	LF	501	GTP	C2-N3	2.04	1.38	1.33
69	T	500	GDP	C5-N7	-2.04	1.35	1.39
71	VG	501	GTP	PB-O3A	2.04	1.61	1.59
69	WB	500	GDP	C5-N7	-2.04	1.35	1.39
69	ID	500	GDP	C5-N7	-2.04	1.35	1.39
69	TF	500	GDP	C5-N7	-2.04	1.35	1.39
69	NL	500	GDP	C5-N7	-2.04	1.35	1.39
71	GC	501	GTP	C2-N3	2.04	1.38	1.33
71	QB	501	GTP	PA-O3A	2.03	1.61	1.59
71	OC	501	GTP	C2-N3	2.03	1.38	1.33
71	SI	501	GTP	C2-N3	2.03	1.38	1.33
71	EE	501	GTP	PA-O3A	2.03	1.61	1.59
71	QD	501	GTP	C2-N3	2.03	1.38	1.33
71	BI	501	GTP	PB-O3A	2.03	1.61	1.59
71	CD	501	GTP	PB-O3A	2.03	1.61	1.59
69	MB	500	GDP	C5-N7	-2.03	1.35	1.39
69	HD	500	GDP	C5-N7	-2.03	1.35	1.39
71	PG	501	GTP	C2-N3	2.02	1.38	1.33
69	HB	500	GDP	C5-N7	-2.02	1.35	1.39
69	DM	500	GDP	C5-N7	-2.02	1.35	1.39
71	GK	501	GTP	PA-O3A	2.02	1.61	1.59
71	BM	501	GTP	PB-O3A	2.02	1.61	1.59
69	JC	500	GDP	C5-N7	-2.02	1.35	1.39
71	SE	501	GTP	C2-N3	2.02	1.38	1.33
71	ME	501	GTP	PB-O3A	2.02	1.61	1.59
71	ME	501	GTP	PA-O3A	2.01	1.61	1.59
71	RB	501	GTP	PA-O3A	2.01	1.61	1.59
69	KC	500	GDP	C5-N7	-2.01	1.35	1.39
71	QB	501	GTP	C2-N3	2.01	1.38	1.33
71	D	501	GTP	PB-O3A	2.00	1.61	1.59

All (2496) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	CK	500	GDP	C5-C4-N3	-6.44	118.14	128.39
69	P	500	GDP	C5-C4-N3	-6.37	118.25	128.39
69	QK	500	GDP	C5-C4-N3	-6.26	118.44	128.39
69	TL	500	GDP	C5-C4-N3	-6.23	118.47	128.39
69	DA	500	GDP	C5-C4-N3	-6.23	118.48	128.39
69	RE	500	GDP	C5-C4-N3	-6.21	118.51	128.39
69	BN	500	GDP	C5-C4-N3	-6.21	118.51	128.39
69	OL	500	GDP	C5-C4-N3	-6.21	118.51	128.39
69	WH	500	GDP	C5-C4-N3	-6.18	118.56	128.39
69	CA	500	GDP	C5-C4-N3	-6.17	118.57	128.39
69	WL	500	GDP	C5-C4-N3	-6.17	118.58	128.39
69	QI	500	GDP	C5-C4-N3	-6.16	118.59	128.39
69	CM	500	GDP	C5-C4-N3	-6.16	118.59	128.39
69	A	500	GDP	C5-C4-N3	-6.16	118.59	128.39
69	TD	500	GDP	C5-C4-N3	-6.15	118.59	128.39
69	NH	500	GDP	C5-C4-N3	-6.15	118.60	128.39
69	F	500	GDP	C5-C4-N3	-6.15	118.60	128.39
69	GB	500	GDP	C5-C4-N3	-6.14	118.61	128.39
69	RK	500	GDP	C5-C4-N3	-6.14	118.62	128.39
69	BB	500	GDP	C5-C4-N3	-6.13	118.63	128.39
69	KA	500	GDP	C5-C4-N3	-6.13	118.63	128.39
69	PL	500	GDP	C5-C4-N3	-6.13	118.63	128.39
69	SH	500	GDP	C5-C4-N3	-6.12	118.65	128.39
69	JK	500	GDP	C5-C4-N3	-6.12	118.65	128.39
69	VF	500	GDP	C5-C4-N3	-6.12	118.65	128.39
69	EF	500	GDP	C5-C4-N3	-6.12	118.65	128.39
69	WD	500	GDP	C5-C4-N3	-6.12	118.66	128.39
69	KI	500	GDP	C5-C4-N3	-6.11	118.66	128.39
69	GH	500	GDP	C5-C4-N3	-6.11	118.66	128.39
69	GD	500	GDP	C5-C4-N3	-6.11	118.66	128.39
69	G	500	GDP	C5-C4-N3	-6.11	118.66	128.39
69	U	500	GDP	C5-C4-N3	-6.11	118.66	128.39
69	ML	500	GDP	C5-C4-N3	-6.11	118.66	128.39
69	KM	500	GDP	C5-C4-N3	-6.11	118.67	128.39
69	DE	500	GDP	C5-C4-N3	-6.10	118.68	128.39
69	BL	500	GDP	C5-C4-N3	-6.10	118.68	128.39
69	OJ	500	GDP	C5-C4-N3	-6.10	118.69	128.39
69	QA	500	GDP	C5-C4-N3	-6.10	118.69	128.39
69	UH	500	GDP	C5-C4-N3	-6.09	118.69	128.39
69	HJ	500	GDP	C5-C4-N3	-6.09	118.69	128.39
69	JA	500	GDP	C5-C4-N3	-6.09	118.69	128.39
69	KE	500	GDP	C5-C4-N3	-6.09	118.69	128.39
69	FJ	500	GDP	C5-C4-N3	-6.09	118.69	128.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	EJ	500	GDP	C5-C4-N3	-6.09	118.69	128.39
69	JM	500	GDP	C5-C4-N3	-6.09	118.69	128.39
69	M	500	GDP	C5-C4-N3	-6.09	118.70	128.39
69	HD	500	GDP	C5-C4-N3	-6.09	118.70	128.39
69	LG	500	GDP	C5-C4-N3	-6.09	118.70	128.39
69	DG	500	GDP	C5-C4-N3	-6.09	118.70	128.39
69	O	500	GDP	C5-C4-N3	-6.09	118.70	128.39
69	CG	500	GDP	C5-C4-N3	-6.09	118.70	128.39
69	FD	500	GDP	C5-C4-N3	-6.09	118.70	128.39
69	MH	500	GDP	C5-C4-N3	-6.08	118.71	128.39
69	JE	500	GDP	C5-C4-N3	-6.08	118.71	128.39
69	DK	500	GDP	C5-C4-N3	-6.08	118.71	128.39
69	BH	500	GDP	C5-C4-N3	-6.07	118.73	128.39
69	OD	500	GDP	C5-C4-N3	-6.07	118.73	128.39
69	ND	500	GDP	C5-C4-N3	-6.07	118.73	128.39
69	DI	500	GDP	C5-C4-N3	-6.07	118.73	128.39
69	KG	500	GDP	C5-C4-N3	-6.07	118.73	128.39
69	RG	500	GDP	C5-C4-N3	-6.07	118.73	128.39
69	WF	500	GDP	C5-C4-N3	-6.07	118.73	128.39
69	IL	500	GDP	C5-C4-N3	-6.07	118.73	128.39
69	UB	500	GDP	C5-C4-N3	-6.07	118.74	128.39
69	IF	500	GDP	C5-C4-N3	-6.06	118.74	128.39
69	QC	500	GDP	C5-C4-N3	-6.06	118.74	128.39
69	UL	500	GDP	C5-C4-N3	-6.06	118.74	128.39
69	GJ	500	GDP	C5-C4-N3	-6.06	118.74	128.39
69	VB	500	GDP	C5-C4-N3	-6.06	118.74	128.39
69	N	500	GDP	C5-C4-N3	-6.06	118.75	128.39
69	T	500	GDP	C5-C4-N3	-6.06	118.75	128.39
69	HH	500	GDP	C5-C4-N3	-6.06	118.75	128.39
69	S	500	GDP	C5-C4-N3	-6.06	118.75	128.39
69	UF	500	GDP	C5-C4-N3	-6.06	118.75	128.39
69	CI	500	GDP	C5-C4-N3	-6.06	118.75	128.39
69	SB	500	GDP	C5-C4-N3	-6.06	118.75	128.39
69	WB	500	GDP	C5-C4-N3	-6.05	118.76	128.39
69	DC	500	GDP	C5-C4-N3	-6.05	118.76	128.39
69	LK	500	GDP	C5-C4-N3	-6.05	118.76	128.39
69	SD	500	GDP	C5-C4-N3	-6.05	118.76	128.39
69	AD	500	GDP	C5-C4-N3	-6.05	118.77	128.39
69	W	500	GDP	C5-C4-N3	-6.04	118.77	128.39
69	LA	500	GDP	C5-C4-N3	-6.04	118.78	128.39
69	V	500	GDP	C5-C4-N3	-6.04	118.78	128.39
69	VH	500	GDP	C5-C4-N3	-6.04	118.78	128.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	QE	500	GDP	C5-C4-N3	-6.04	118.78	128.39
69	MD	500	GDP	C5-C4-N3	-6.04	118.78	128.39
69	FF	500	GDP	C5-C4-N3	-6.04	118.78	128.39
69	H	500	GDP	C5-C4-N3	-6.03	118.79	128.39
69	OB	500	GDP	C5-C4-N3	-6.03	118.79	128.39
69	JG	500	GDP	C5-C4-N3	-6.03	118.79	128.39
69	LI	500	GDP	C5-C4-N3	-6.03	118.80	128.39
69	MB	500	GDP	C5-C4-N3	-6.03	118.80	128.39
69	OF	500	GDP	C5-C4-N3	-6.03	118.80	128.39
69	VJ	500	GDP	C5-C4-N3	-6.02	118.80	128.39
69	JC	500	GDP	C5-C4-N3	-6.02	118.80	128.39
69	PJ	500	GDP	C5-C4-N3	-6.02	118.81	128.39
69	JI	500	GDP	C5-C4-N3	-6.02	118.81	128.39
69	BD	500	GDP	C5-C4-N3	-6.02	118.81	128.39
69	TH	500	GDP	C5-C4-N3	-6.02	118.81	128.39
69	AF	500	GDP	C5-C4-N3	-6.02	118.82	128.39
69	IH	500	GDP	C5-C4-N3	-6.01	118.82	128.39
69	LC	500	GDP	C5-C4-N3	-6.01	118.82	128.39
69	CC	500	GDP	C5-C4-N3	-6.01	118.82	128.39
69	GL	500	GDP	C5-C4-N3	-6.01	118.82	128.39
69	AN	500	GDP	C5-C4-N3	-6.01	118.82	128.39
69	FH	500	GDP	C5-C4-N3	-6.01	118.82	128.39
69	TJ	500	GDP	C5-C4-N3	-6.01	118.82	128.39
69	QG	500	GDP	C5-C4-N3	-6.01	118.83	128.39
69	NJ	500	GDP	C5-C4-N3	-6.01	118.83	128.39
69	FB	500	GDP	C5-C4-N3	-6.00	118.84	128.39
69	TF	500	GDP	C5-C4-N3	-6.00	118.84	128.39
69	NF	500	GDP	C5-C4-N3	-6.00	118.84	128.39
69	RC	500	GDP	C5-C4-N3	-6.00	118.85	128.39
69	TB	500	GDP	C5-C4-N3	-6.00	118.85	128.39
69	RI	500	GDP	C5-C4-N3	-5.99	118.85	128.39
69	KC	500	GDP	C5-C4-N3	-5.99	118.85	128.39
69	FL	500	GDP	C5-C4-N3	-5.99	118.86	128.39
69	LM	500	GDP	C5-C4-N3	-5.99	118.86	128.39
69	KK	500	GDP	C5-C4-N3	-5.98	118.87	128.39
69	VL	500	GDP	C5-C4-N3	-5.98	118.87	128.39
69	IJ	500	GDP	C5-C4-N3	-5.98	118.88	128.39
69	NB	500	GDP	C5-C4-N3	-5.97	118.88	128.39
69	BF	500	GDP	C5-C4-N3	-5.97	118.89	128.39
69	GF	500	GDP	C5-C4-N3	-5.97	118.89	128.39
69	UJ	500	GDP	C5-C4-N3	-5.97	118.89	128.39
69	SJ	500	GDP	C5-C4-N3	-5.96	118.91	128.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	VD	500	GDP	C5-C4-N3	-5.96	118.91	128.39
69	RA	500	GDP	C5-C4-N3	-5.95	118.92	128.39
69	OH	500	GDP	C5-C4-N3	-5.95	118.92	128.39
69	LE	500	GDP	C5-C4-N3	-5.95	118.92	128.39
69	UD	500	GDP	C5-C4-N3	-5.94	118.93	128.39
69	DM	500	GDP	C5-C4-N3	-5.94	118.93	128.39
69	ED	500	GDP	C5-C4-N3	-5.94	118.94	128.39
69	HB	500	GDP	C5-C4-N3	-5.94	118.94	128.39
69	HL	500	GDP	C5-C4-N3	-5.93	118.94	128.39
69	HF	500	GDP	C5-C4-N3	-5.93	118.95	128.39
69	MF	500	GDP	C5-C4-N3	-5.93	118.95	128.39
69	AJ	500	GDP	C5-C4-N3	-5.91	118.98	128.39
69	EL	500	GDP	C5-C4-N3	-5.91	118.98	128.39
69	I	500	GDP	C5-C4-N3	-5.91	118.99	128.39
69	IB	500	GDP	C5-C4-N3	-5.90	118.99	128.39
69	PB	500	GDP	C5-C4-N3	-5.90	119.00	128.39
69	ID	500	GDP	C5-C4-N3	-5.90	119.00	128.39
69	WJ	500	GDP	C5-C4-N3	-5.88	119.02	128.39
69	MN	500	GDP	C5-C4-N3	-5.88	119.03	128.39
69	SF	500	GDP	C5-C4-N3	-5.88	119.03	128.39
69	AB	500	GDP	C5-C4-N3	-5.88	119.04	128.39
69	AL	500	GDP	C5-C4-N3	-5.87	119.04	128.39
69	CE	500	GDP	C5-C4-N3	-5.87	119.05	128.39
69	PH	500	GDP	C5-C4-N3	-5.87	119.05	128.39
69	LO	500	GDP	C5-C4-N3	-5.87	119.05	128.39
69	PD	500	GDP	C5-C4-N3	-5.86	119.06	128.39
69	BJ	500	GDP	C5-C4-N3	-5.86	119.06	128.39
69	PF	500	GDP	C5-C4-N3	-5.85	119.08	128.39
69	E	500	GDP	C5-C4-N3	-5.85	119.08	128.39
69	NL	500	GDP	C5-C4-N3	-5.84	119.09	128.39
69	EB	500	GDP	C5-C4-N3	-5.80	119.15	128.39
69	MJ	500	GDP	C5-C4-N3	-5.79	119.18	128.39
69	EH	500	GDP	C5-C4-N3	-5.67	119.37	128.39
69	AH	500	GDP	C5-C4-N3	-5.66	119.38	128.39
71	HK	501	GTP	C5-C4-N3	-5.23	120.07	128.39
71	IC	501	GTP	C5-C4-N3	-5.21	120.09	128.39
69	CK	500	GDP	C2-N3-C4	5.17	121.21	112.30
71	LH	501	GTP	C5-C4-N3	-5.15	120.19	128.39
71	KH	501	GTP	C5-C4-N3	-5.15	120.20	128.39
71	IA	501	GTP	C5-C4-N3	-5.15	120.20	128.39
71	II	501	GTP	C5-C4-N3	-5.14	120.20	128.39
71	NG	501	GTP	C5-C4-N3	-5.14	120.21	128.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
71	QH	501	GTP	C5-C4-N3	-5.13	120.22	128.39
71	TE	501	GTP	C5-C4-N3	-5.13	120.23	128.39
71	R	501	GTP	C5-C4-N3	-5.12	120.24	128.39
71	QF	501	GTP	C5-C4-N3	-5.12	120.25	128.39
71	J	501	GTP	C5-C4-N3	-5.11	120.25	128.39
71	IG	501	GTP	C5-C4-N3	-5.11	120.26	128.39
71	CH	501	GTP	C5-C4-N3	-5.11	120.26	128.39
71	KL	501	GTP	C5-C4-N3	-5.11	120.26	128.39
71	GI	501	GTP	C5-C4-N3	-5.10	120.27	128.39
71	BG	501	GTP	C5-C4-N3	-5.10	120.27	128.39
71	SK	501	GTP	C5-C4-N3	-5.10	120.27	128.39
69	QI	500	GDP	C2-N3-C4	5.10	121.08	112.30
71	HC	501	GTP	C5-C4-N3	-5.10	120.28	128.39
71	VA	501	GTP	C5-C4-N3	-5.10	120.28	128.39
71	NM	501	GTP	C5-C4-N3	-5.10	120.28	128.39
71	EA	501	GTP	C5-C4-N3	-5.10	120.28	128.39
71	AI	501	GTP	C5-C4-N3	-5.09	120.28	128.39
71	DF	501	GTP	C5-C4-N3	-5.09	120.29	128.39
71	OK	501	GTP	C5-C4-N3	-5.09	120.29	128.39
69	DA	500	GDP	C2-N3-C4	5.08	121.05	112.30
69	HJ	500	GDP	C2-N3-C4	5.08	121.05	112.30
71	IM	501	GTP	C5-C4-N3	-5.08	120.31	128.39
71	SG	501	GTP	C5-C4-N3	-5.08	120.31	128.39
71	K	501	GTP	C5-C4-N3	-5.08	120.31	128.39
71	UI	501	GTP	C5-C4-N3	-5.08	120.31	128.39
69	RE	500	GDP	C2-N3-C4	5.08	121.04	112.30
71	NC	501	GTP	C5-C4-N3	-5.08	120.31	128.39
71	VG	501	GTP	C5-C4-N3	-5.08	120.31	128.39
69	QK	500	GDP	C2-N3-C4	5.08	121.04	112.30
71	QB	501	GTP	C5-C4-N3	-5.08	120.31	128.39
71	DH	501	GTP	C5-C4-N3	-5.07	120.31	128.39
69	DE	500	GDP	C2-N3-C4	5.07	121.04	112.30
71	KB	501	GTP	C5-C4-N3	-5.07	120.32	128.39
71	KN	501	GTP	C5-C4-N3	-5.07	120.32	128.39
71	EC	501	GTP	C5-C4-N3	-5.07	120.32	128.39
71	JH	501	GTP	C5-C4-N3	-5.07	120.32	128.39
71	Q	501	GTP	C5-C4-N3	-5.07	120.33	128.39
71	BE	501	GTP	C5-C4-N3	-5.07	120.33	128.39
71	UE	501	GTP	C5-C4-N3	-5.07	120.33	128.39
71	QL	501	GTP	C5-C4-N3	-5.06	120.33	128.39
69	TL	500	GDP	C2-N3-C4	5.06	121.02	112.30
71	EG	501	GTP	C5-C4-N3	-5.06	120.33	128.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	BB	500	GDP	C2-N3-C4	5.06	121.02	112.30
71	SC	501	GTP	C5-C4-N3	-5.06	120.33	128.39
69	CM	500	GDP	C2-N3-C4	5.06	121.02	112.30
69	LG	500	GDP	C2-N3-C4	5.06	121.02	112.30
71	NE	501	GTP	C5-C4-N3	-5.06	120.34	128.39
71	JF	501	GTP	C5-C4-N3	-5.06	120.34	128.39
69	BD	500	GDP	C2-N3-C4	5.06	121.01	112.30
71	AK	501	GTP	C5-C4-N3	-5.06	120.34	128.39
71	NI	501	GTP	C5-C4-N3	-5.06	120.34	128.39
71	CF	501	GTP	C5-C4-N3	-5.05	120.35	128.39
69	OL	500	GDP	C2-N3-C4	5.05	121.00	112.30
69	VB	500	GDP	C2-N3-C4	5.05	121.00	112.30
71	AE	501	GTP	C5-C4-N3	-5.05	120.35	128.39
71	UA	501	GTP	C5-C4-N3	-5.05	120.35	128.39
71	WM	501	GTP	C5-C4-N3	-5.05	120.35	128.39
71	CJ	501	GTP	C5-C4-N3	-5.05	120.35	128.39
69	BN	500	GDP	C2-N3-C4	5.05	121.00	112.30
71	QJ	501	GTP	C5-C4-N3	-5.05	120.35	128.39
71	VI	501	GTP	C5-C4-N3	-5.05	120.36	128.39
69	WD	500	GDP	C2-N3-C4	5.05	120.99	112.30
71	JJ	501	GTP	C5-C4-N3	-5.05	120.36	128.39
69	OF	500	GDP	C2-N3-C4	5.05	120.99	112.30
71	PK	501	GTP	C5-C4-N3	-5.05	120.36	128.39
71	PE	501	GTP	C5-C4-N3	-5.04	120.36	128.39
69	MB	500	GDP	C2-N3-C4	5.04	120.99	112.30
71	JN	501	GTP	C5-C4-N3	-5.04	120.36	128.39
69	EL	500	GDP	C2-N3-C4	5.04	120.99	112.30
69	FL	500	GDP	C2-N3-C4	5.04	120.98	112.30
69	HD	500	GDP	C2-N3-C4	5.04	120.98	112.30
69	EJ	500	GDP	C2-N3-C4	5.04	120.98	112.30
71	TI	501	GTP	C5-C4-N3	-5.04	120.37	128.39
71	VC	501	GTP	C5-C4-N3	-5.04	120.37	128.39
69	F	500	GDP	C2-N3-C4	5.04	120.98	112.30
71	KF	501	GTP	C5-C4-N3	-5.04	120.37	128.39
69	A	500	GDP	C2-N3-C4	5.04	120.97	112.30
69	RK	500	GDP	C2-N3-C4	5.04	120.97	112.30
71	IE	501	GTP	C5-C4-N3	-5.04	120.38	128.39
71	D	501	GTP	C5-C4-N3	-5.04	120.38	128.39
69	BH	500	GDP	C2-N3-C4	5.03	120.97	112.30
69	CA	500	GDP	C2-N3-C4	5.03	120.97	112.30
69	UF	500	GDP	C2-N3-C4	5.03	120.97	112.30
69	QE	500	GDP	C2-N3-C4	5.03	120.97	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	NH	500	GDP	C2-N3-C4	5.03	120.97	112.30
69	U	500	GDP	C2-N3-C4	5.03	120.97	112.30
69	FD	500	GDP	C2-N3-C4	5.03	120.97	112.30
69	TF	500	GDP	C2-N3-C4	5.03	120.97	112.30
69	WF	500	GDP	C2-N3-C4	5.03	120.97	112.30
69	GD	500	GDP	C2-N3-C4	5.03	120.97	112.30
69	TD	500	GDP	C2-N3-C4	5.03	120.96	112.30
69	WL	500	GDP	C2-N3-C4	5.03	120.96	112.30
71	BM	501	GTP	C5-C4-N3	-5.03	120.38	128.39
69	GH	500	GDP	C2-N3-C4	5.03	120.96	112.30
71	EI	501	GTP	C5-C4-N3	-5.03	120.39	128.39
71	HM	501	GTP	C5-C4-N3	-5.03	120.39	128.39
71	AG	501	GTP	C5-C4-N3	-5.03	120.39	128.39
71	AM	501	GTP	C5-C4-N3	-5.03	120.39	128.39
69	T	500	GDP	C2-N3-C4	5.03	120.96	112.30
69	UB	500	GDP	C2-N3-C4	5.03	120.96	112.30
69	VH	500	GDP	C2-N3-C4	5.03	120.96	112.30
69	UL	500	GDP	C2-N3-C4	5.03	120.96	112.30
69	FJ	500	GDP	C2-N3-C4	5.03	120.95	112.30
71	OE	501	GTP	C5-C4-N3	-5.02	120.39	128.39
71	TG	501	GTP	C5-C4-N3	-5.02	120.39	128.39
69	EF	500	GDP	C2-N3-C4	5.02	120.95	112.30
69	JK	500	GDP	C2-N3-C4	5.02	120.95	112.30
69	CC	500	GDP	C2-N3-C4	5.02	120.95	112.30
69	DK	500	GDP	C2-N3-C4	5.02	120.95	112.30
69	PJ	500	GDP	C2-N3-C4	5.02	120.95	112.30
69	AF	500	GDP	C2-N3-C4	5.02	120.95	112.30
69	SH	500	GDP	C2-N3-C4	5.02	120.95	112.30
69	VF	500	GDP	C2-N3-C4	5.02	120.95	112.30
71	OI	501	GTP	C5-C4-N3	-5.02	120.40	128.39
69	E	500	GDP	C2-N3-C4	5.02	120.95	112.30
69	KA	500	GDP	C2-N3-C4	5.02	120.95	112.30
69	MH	500	GDP	C2-N3-C4	5.02	120.95	112.30
69	LA	500	GDP	C2-N3-C4	5.02	120.95	112.30
71	DJ	501	GTP	C5-C4-N3	-5.02	120.40	128.39
71	BC	501	GTP	C5-C4-N3	-5.02	120.40	128.39
71	VE	501	GTP	C5-C4-N3	-5.02	120.40	128.39
69	CG	500	GDP	C2-N3-C4	5.02	120.95	112.30
69	AD	500	GDP	C2-N3-C4	5.02	120.94	112.30
69	HH	500	GDP	C2-N3-C4	5.02	120.94	112.30
69	JC	500	GDP	C2-N3-C4	5.02	120.94	112.30
69	SD	500	GDP	C2-N3-C4	5.02	120.94	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	GB	500	GDP	C2-N3-C4	5.02	120.94	112.30
69	JE	500	GDP	C2-N3-C4	5.02	120.94	112.30
69	V	500	GDP	C2-N3-C4	5.02	120.94	112.30
71	RJ	501	GTP	C5-C4-N3	-5.02	120.40	128.39
71	VM	501	GTP	C5-C4-N3	-5.02	120.40	128.39
69	LK	500	GDP	C2-N3-C4	5.02	120.94	112.30
71	NA	501	GTP	C5-C4-N3	-5.02	120.41	128.39
71	HE	501	GTP	C5-C4-N3	-5.02	120.41	128.39
69	ML	500	GDP	C2-N3-C4	5.02	120.94	112.30
69	KI	500	GDP	C2-N3-C4	5.01	120.94	112.30
71	UC	501	GTP	C5-C4-N3	-5.01	120.41	128.39
71	PM	501	GTP	C5-C4-N3	-5.01	120.41	128.39
71	AC	501	GTP	C5-C4-N3	-5.01	120.41	128.39
71	KJ	501	GTP	C5-C4-N3	-5.01	120.41	128.39
69	S	500	GDP	C2-N3-C4	5.01	120.93	112.30
71	FG	501	GTP	C5-C4-N3	-5.01	120.41	128.39
69	DG	500	GDP	C2-N3-C4	5.01	120.93	112.30
69	VJ	500	GDP	C2-N3-C4	5.01	120.93	112.30
69	DC	500	GDP	C2-N3-C4	5.01	120.93	112.30
71	FC	501	GTP	C5-C4-N3	-5.01	120.42	128.39
69	JG	500	GDP	C2-N3-C4	5.01	120.93	112.30
69	WH	500	GDP	C2-N3-C4	5.01	120.93	112.30
71	BA	501	GTP	C5-C4-N3	-5.01	120.42	128.39
69	CI	500	GDP	C2-N3-C4	5.01	120.92	112.30
69	GJ	500	GDP	C2-N3-C4	5.01	120.92	112.30
69	IL	500	GDP	C2-N3-C4	5.01	120.92	112.30
69	MD	500	GDP	C2-N3-C4	5.01	120.92	112.30
71	WA	501	GTP	C5-C4-N3	-5.01	120.42	128.39
69	SB	500	GDP	C2-N3-C4	5.00	120.92	112.30
71	IK	501	GTP	C5-C4-N3	-5.00	120.43	128.39
69	JA	500	GDP	C2-N3-C4	5.00	120.92	112.30
71	KD	501	GTP	C5-C4-N3	-5.00	120.43	128.39
69	IF	500	GDP	C2-N3-C4	5.00	120.92	112.30
69	OD	500	GDP	C2-N3-C4	5.00	120.92	112.30
69	QG	500	GDP	C2-N3-C4	5.00	120.92	112.30
71	EE	501	GTP	C5-C4-N3	-5.00	120.43	128.39
71	DL	501	GTP	C5-C4-N3	-5.00	120.43	128.39
69	WB	500	GDP	C2-N3-C4	5.00	120.91	112.30
69	JM	500	GDP	C2-N3-C4	5.00	120.91	112.30
69	KM	500	GDP	C2-N3-C4	5.00	120.91	112.30
69	PL	500	GDP	C2-N3-C4	5.00	120.91	112.30
69	GF	500	GDP	C2-N3-C4	5.00	120.91	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	VL	500	GDP	C2-N3-C4	5.00	120.91	112.30
71	UG	501	GTP	C5-C4-N3	-5.00	120.43	128.39
69	RG	500	GDP	C2-N3-C4	5.00	120.91	112.30
69	ND	500	GDP	C2-N3-C4	5.00	120.91	112.30
69	O	500	GDP	C2-N3-C4	5.00	120.91	112.30
71	FI	501	GTP	C5-C4-N3	-5.00	120.44	128.39
69	KE	500	GDP	C2-N3-C4	5.00	120.90	112.30
71	WC	501	GTP	C5-C4-N3	-5.00	120.44	128.39
69	W	500	GDP	C2-N3-C4	4.99	120.90	112.30
71	RF	501	GTP	C5-C4-N3	-4.99	120.44	128.39
69	M	500	GDP	C2-N3-C4	4.99	120.90	112.30
71	BI	501	GTP	C5-C4-N3	-4.99	120.44	128.39
71	RH	501	GTP	C5-C4-N3	-4.99	120.44	128.39
69	TH	500	GDP	C2-N3-C4	4.99	120.90	112.30
71	GA	501	GTP	C5-C4-N3	-4.99	120.44	128.39
71	WE	501	GTP	C5-C4-N3	-4.99	120.44	128.39
69	H	500	GDP	C2-N3-C4	4.99	120.90	112.30
69	N	500	GDP	C2-N3-C4	4.99	120.90	112.30
69	UJ	500	GDP	C2-N3-C4	4.99	120.90	112.30
71	TA	501	GTP	C5-C4-N3	-4.99	120.45	128.39
69	UH	500	GDP	C2-N3-C4	4.99	120.89	112.30
69	KG	500	GDP	C2-N3-C4	4.99	120.89	112.30
69	LC	500	GDP	C2-N3-C4	4.99	120.89	112.30
71	RD	501	GTP	C5-C4-N3	-4.99	120.45	128.39
69	KC	500	GDP	C2-N3-C4	4.99	120.89	112.30
69	NJ	500	GDP	C2-N3-C4	4.99	120.89	112.30
69	DI	500	GDP	C2-N3-C4	4.99	120.89	112.30
69	ED	500	GDP	C2-N3-C4	4.99	120.89	112.30
69	G	500	GDP	C2-N3-C4	4.98	120.89	112.30
69	OJ	500	GDP	C2-N3-C4	4.98	120.89	112.30
69	AN	500	GDP	C2-N3-C4	4.98	120.89	112.30
69	GL	500	GDP	C2-N3-C4	4.98	120.88	112.30
71	HI	501	GTP	C5-C4-N3	-4.98	120.46	128.39
69	DM	500	GDP	C2-N3-C4	4.98	120.88	112.30
69	QC	500	GDP	C2-N3-C4	4.98	120.88	112.30
69	RC	500	GDP	C2-N3-C4	4.98	120.88	112.30
71	HG	501	GTP	C5-C4-N3	-4.98	120.46	128.39
69	FF	500	GDP	C2-N3-C4	4.98	120.88	112.30
71	L	501	GTP	C5-C4-N3	-4.98	120.47	128.39
69	LM	500	GDP	C2-N3-C4	4.98	120.88	112.30
71	MM	501	GTP	C5-C4-N3	-4.98	120.47	128.39
69	KK	500	GDP	C2-N3-C4	4.98	120.87	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
71	FE	501	GTP	C5-C4-N3	-4.98	120.47	128.39
71	WG	501	GTP	C5-C4-N3	-4.98	120.47	128.39
71	FK	501	GTP	C5-C4-N3	-4.97	120.47	128.39
69	FB	500	GDP	C2-N3-C4	4.97	120.87	112.30
71	RL	501	GTP	C5-C4-N3	-4.97	120.47	128.39
71	SE	501	GTP	C5-C4-N3	-4.97	120.47	128.39
69	PH	500	GDP	C2-N3-C4	4.97	120.86	112.30
71	AA	501	GTP	C5-C4-N3	-4.97	120.48	128.39
71	DD	501	GTP	C5-C4-N3	-4.97	120.48	128.39
71	LB	501	GTP	C5-C4-N3	-4.97	120.48	128.39
71	WK	501	GTP	C5-C4-N3	-4.97	120.48	128.39
69	FH	500	GDP	C2-N3-C4	4.97	120.86	112.30
69	TB	500	GDP	C2-N3-C4	4.97	120.86	112.30
71	JL	501	GTP	C5-C4-N3	-4.97	120.48	128.39
69	P	500	GDP	C2-N3-C4	4.97	120.86	112.30
69	SJ	500	GDP	C2-N3-C4	4.97	120.86	112.30
69	HB	500	GDP	C2-N3-C4	4.97	120.86	112.30
69	IH	500	GDP	C2-N3-C4	4.97	120.86	112.30
69	LE	500	GDP	C2-N3-C4	4.97	120.86	112.30
69	BL	500	GDP	C2-N3-C4	4.97	120.85	112.30
71	MA	501	GTP	C5-C4-N3	-4.97	120.49	128.39
71	OM	501	GTP	C5-C4-N3	-4.96	120.49	128.39
69	SF	500	GDP	C2-N3-C4	4.96	120.85	112.30
69	VD	500	GDP	C2-N3-C4	4.96	120.85	112.30
71	MC	501	GTP	C5-C4-N3	-4.96	120.49	128.39
69	QA	500	GDP	C2-N3-C4	4.96	120.84	112.30
69	ID	500	GDP	C2-N3-C4	4.96	120.84	112.30
71	JB	501	GTP	C5-C4-N3	-4.96	120.50	128.39
69	OB	500	GDP	C2-N3-C4	4.96	120.84	112.30
69	LI	500	GDP	C2-N3-C4	4.96	120.83	112.30
69	MF	500	GDP	C2-N3-C4	4.95	120.83	112.30
69	TJ	500	GDP	C2-N3-C4	4.95	120.83	112.30
71	LF	501	GTP	C5-C4-N3	-4.95	120.51	128.39
71	DB	501	GTP	C5-C4-N3	-4.95	120.51	128.39
69	PF	500	GDP	C2-N3-C4	4.95	120.83	112.30
69	NF	500	GDP	C2-N3-C4	4.95	120.83	112.30
69	WJ	500	GDP	C2-N3-C4	4.95	120.83	112.30
71	FA	501	GTP	C5-C4-N3	-4.95	120.51	128.39
71	PC	501	GTP	C5-C4-N3	-4.95	120.51	128.39
71	BK	501	GTP	C5-C4-N3	-4.95	120.51	128.39
71	QD	501	GTP	C5-C4-N3	-4.95	120.51	128.39
71	OG	501	GTP	C5-C4-N3	-4.95	120.51	128.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	UD	500	GDP	C2-N3-C4	4.95	120.82	112.30
69	AB	500	GDP	C2-N3-C4	4.95	120.82	112.30
69	JI	500	GDP	C2-N3-C4	4.95	120.82	112.30
71	GK	501	GTP	C5-C4-N3	-4.95	120.52	128.39
71	MG	501	GTP	C5-C4-N3	-4.95	120.52	128.39
71	UK	501	GTP	C5-C4-N3	-4.94	120.52	128.39
71	TK	501	GTP	C5-C4-N3	-4.94	120.52	128.39
69	P	500	GDP	N9-C4-N3	4.94	135.84	125.95
69	MN	500	GDP	C2-N3-C4	4.94	120.81	112.30
71	C	501	GTP	C5-C4-N3	-4.94	120.52	128.39
69	LO	500	GDP	C2-N3-C4	4.94	120.81	112.30
69	HF	500	GDP	C2-N3-C4	4.94	120.81	112.30
71	GG	501	GTP	C5-C4-N3	-4.94	120.53	128.39
69	RA	500	GDP	C2-N3-C4	4.94	120.80	112.30
69	I	500	GDP	C2-N3-C4	4.94	120.80	112.30
69	IB	500	GDP	C2-N3-C4	4.94	120.80	112.30
69	BJ	500	GDP	C2-N3-C4	4.93	120.80	112.30
69	RI	500	GDP	C2-N3-C4	4.93	120.79	112.30
71	CL	501	GTP	C5-C4-N3	-4.93	120.54	128.39
69	AL	500	GDP	C2-N3-C4	4.93	120.79	112.30
69	AJ	500	GDP	C2-N3-C4	4.93	120.79	112.30
69	HL	500	GDP	C2-N3-C4	4.93	120.79	112.30
69	MJ	500	GDP	C2-N3-C4	4.93	120.79	112.30
69	EB	500	GDP	C2-N3-C4	4.93	120.78	112.30
69	IJ	500	GDP	C2-N3-C4	4.92	120.78	112.30
71	EK	501	GTP	C5-C4-N3	-4.92	120.55	128.39
69	PB	500	GDP	C2-N3-C4	4.92	120.78	112.30
71	SA	501	GTP	C5-C4-N3	-4.92	120.56	128.39
71	NK	501	GTP	C5-C4-N3	-4.92	120.56	128.39
71	GE	501	GTP	C5-C4-N3	-4.92	120.56	128.39
69	NB	500	GDP	C2-N3-C4	4.92	120.77	112.30
71	WI	501	GTP	C5-C4-N3	-4.92	120.56	128.39
71	LJ	501	GTP	C5-C4-N3	-4.92	120.57	128.39
69	OH	500	GDP	C2-N3-C4	4.91	120.76	112.30
69	BF	500	GDP	C2-N3-C4	4.91	120.76	112.30
71	LL	501	GTP	C5-C4-N3	-4.91	120.57	128.39
71	LN	501	GTP	C5-C4-N3	-4.91	120.58	128.39
69	NL	500	GDP	C2-N3-C4	4.90	120.75	112.30
71	MK	501	GTP	C5-C4-N3	-4.90	120.59	128.39
71	OC	501	GTP	C5-C4-N3	-4.90	120.59	128.39
71	VK	501	GTP	C5-C4-N3	-4.90	120.59	128.39
69	PD	500	GDP	C2-N3-C4	4.90	120.74	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
71	TC	501	GTP	C5-C4-N3	-4.89	120.60	128.39
71	OA	501	GTP	C5-C4-N3	-4.89	120.60	128.39
71	MI	501	GTP	C5-C4-N3	-4.89	120.60	128.39
69	CE	500	GDP	C2-N3-C4	4.89	120.72	112.30
71	GC	501	GTP	C5-C4-N3	-4.88	120.62	128.39
71	JD	501	GTP	C5-C4-N3	-4.88	120.62	128.39
71	PI	501	GTP	C5-C4-N3	-4.88	120.63	128.39
71	LD	501	GTP	C5-C4-N3	-4.88	120.63	128.39
71	SI	501	GTP	C5-C4-N3	-4.87	120.63	128.39
71	CD	501	GTP	C5-C4-N3	-4.87	120.64	128.39
71	PA	501	GTP	C5-C4-N3	-4.87	120.64	128.39
71	HA	501	GTP	C5-C4-N3	-4.86	120.65	128.39
71	RB	501	GTP	C5-C4-N3	-4.85	120.67	128.39
71	PG	501	GTP	C5-C4-N3	-4.84	120.69	128.39
71	CB	501	GTP	C5-C4-N3	-4.84	120.69	128.39
69	AH	500	GDP	C2-N3-C4	4.81	120.59	112.30
69	EH	500	GDP	C2-N3-C4	4.78	120.53	112.30
69	CK	500	GDP	N9-C4-N3	4.77	135.50	125.95
71	ME	501	GTP	C5-C4-N3	-4.76	120.81	128.39
71	QB	501	GTP	C2-N3-C4	4.74	120.46	112.30
71	IA	501	GTP	C2-N3-C4	4.70	120.39	112.30
71	UI	501	GTP	C2-N3-C4	4.69	120.38	112.30
71	HK	501	GTP	C2-N3-C4	4.69	120.37	112.30
71	EA	501	GTP	C2-N3-C4	4.68	120.37	112.30
71	VA	501	GTP	C2-N3-C4	4.68	120.37	112.30
71	AK	501	GTP	C2-N3-C4	4.68	120.36	112.30
71	UE	501	GTP	C2-N3-C4	4.68	120.36	112.30
71	II	501	GTP	C2-N3-C4	4.68	120.36	112.30
71	AM	501	GTP	C2-N3-C4	4.68	120.36	112.30
71	RJ	501	GTP	C2-N3-C4	4.68	120.36	112.30
71	SK	501	GTP	C2-N3-C4	4.68	120.36	112.30
71	UC	501	GTP	C2-N3-C4	4.68	120.35	112.30
71	KN	501	GTP	C2-N3-C4	4.67	120.35	112.30
71	QL	501	GTP	C2-N3-C4	4.67	120.35	112.30
71	PE	501	GTP	C2-N3-C4	4.67	120.34	112.30
71	DF	501	GTP	C2-N3-C4	4.66	120.33	112.30
71	LH	501	GTP	C2-N3-C4	4.66	120.33	112.30
71	IM	501	GTP	C2-N3-C4	4.66	120.33	112.30
71	VM	501	GTP	C2-N3-C4	4.66	120.33	112.30
71	IC	501	GTP	C2-N3-C4	4.66	120.33	112.30
71	BA	501	GTP	C2-N3-C4	4.66	120.32	112.30
71	KF	501	GTP	C2-N3-C4	4.66	120.32	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
71	KL	501	GTP	C2-N3-C4	4.66	120.32	112.30
71	NA	501	GTP	C2-N3-C4	4.65	120.32	112.30
71	R	501	GTP	C2-N3-C4	4.65	120.31	112.30
71	WK	501	GTP	C2-N3-C4	4.65	120.31	112.30
71	HC	501	GTP	C2-N3-C4	4.65	120.31	112.30
71	OK	501	GTP	C2-N3-C4	4.65	120.31	112.30
71	Q	501	GTP	C2-N3-C4	4.65	120.31	112.30
71	AE	501	GTP	C2-N3-C4	4.65	120.31	112.30
71	JJ	501	GTP	C2-N3-C4	4.65	120.31	112.30
71	CF	501	GTP	C2-N3-C4	4.65	120.31	112.30
71	JB	501	GTP	C2-N3-C4	4.65	120.31	112.30
71	JL	501	GTP	C2-N3-C4	4.65	120.31	112.30
71	VG	501	GTP	C2-N3-C4	4.64	120.30	112.30
71	CJ	501	GTP	C2-N3-C4	4.64	120.30	112.30
71	PC	501	GTP	C2-N3-C4	4.64	120.30	112.30
71	BE	501	GTP	C2-N3-C4	4.64	120.29	112.30
71	IE	501	GTP	C2-N3-C4	4.64	120.29	112.30
71	TE	501	GTP	C2-N3-C4	4.64	120.29	112.30
71	WC	501	GTP	C2-N3-C4	4.64	120.29	112.30
71	VK	501	GTP	C2-N3-C4	4.64	120.29	112.30
71	OM	501	GTP	C2-N3-C4	4.64	120.29	112.30
71	PK	501	GTP	C2-N3-C4	4.64	120.29	112.30
71	SC	501	GTP	C2-N3-C4	4.64	120.29	112.30
71	CH	501	GTP	C2-N3-C4	4.64	120.29	112.30
71	HM	501	GTP	C2-N3-C4	4.63	120.28	112.30
71	C	501	GTP	C2-N3-C4	4.63	120.28	112.30
71	KD	501	GTP	C2-N3-C4	4.63	120.28	112.30
71	BM	501	GTP	C2-N3-C4	4.63	120.28	112.30
71	IK	501	GTP	C2-N3-C4	4.63	120.28	112.30
71	DB	501	GTP	C2-N3-C4	4.63	120.28	112.30
71	UG	501	GTP	C2-N3-C4	4.63	120.28	112.30
71	VI	501	GTP	C2-N3-C4	4.63	120.28	112.30
71	KJ	501	GTP	C2-N3-C4	4.63	120.27	112.30
71	NG	501	GTP	C2-N3-C4	4.63	120.27	112.30
71	BK	501	GTP	C2-N3-C4	4.63	120.27	112.30
71	QJ	501	GTP	C2-N3-C4	4.63	120.27	112.30
71	AA	501	GTP	C2-N3-C4	4.63	120.27	112.30
71	IG	501	GTP	C2-N3-C4	4.63	120.27	112.30
71	EG	501	GTP	C2-N3-C4	4.62	120.26	112.30
71	RF	501	GTP	C2-N3-C4	4.62	120.26	112.30
71	GI	501	GTP	C2-N3-C4	4.62	120.26	112.30
71	JF	501	GTP	C2-N3-C4	4.62	120.26	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	QK	500	GDP	N9-C4-N3	4.62	135.20	125.95
71	NI	501	GTP	C2-N3-C4	4.62	120.26	112.30
71	QH	501	GTP	C2-N3-C4	4.62	120.26	112.30
71	KH	501	GTP	C2-N3-C4	4.62	120.26	112.30
71	WG	501	GTP	C2-N3-C4	4.62	120.26	112.30
71	WA	501	GTP	C2-N3-C4	4.62	120.26	112.30
71	DJ	501	GTP	C2-N3-C4	4.62	120.26	112.30
71	BC	501	GTP	C2-N3-C4	4.62	120.25	112.30
71	LJ	501	GTP	C2-N3-C4	4.62	120.25	112.30
71	VC	501	GTP	C2-N3-C4	4.62	120.25	112.30
71	QF	501	GTP	C2-N3-C4	4.62	120.25	112.30
71	LF	501	GTP	C2-N3-C4	4.62	120.25	112.30
69	BN	500	GDP	N9-C4-N3	4.62	135.18	125.95
71	DH	501	GTP	C2-N3-C4	4.61	120.25	112.30
71	SA	501	GTP	C2-N3-C4	4.61	120.25	112.30
71	EK	501	GTP	C2-N3-C4	4.61	120.25	112.30
71	JH	501	GTP	C2-N3-C4	4.61	120.25	112.30
71	RL	501	GTP	C2-N3-C4	4.61	120.25	112.30
71	NE	501	GTP	C2-N3-C4	4.61	120.24	112.30
71	SG	501	GTP	C2-N3-C4	4.61	120.24	112.30
71	TI	501	GTP	C2-N3-C4	4.61	120.24	112.30
71	EI	501	GTP	C2-N3-C4	4.61	120.24	112.30
71	MA	501	GTP	C2-N3-C4	4.61	120.24	112.30
71	AI	501	GTP	C2-N3-C4	4.61	120.24	112.30
71	J	501	GTP	C2-N3-C4	4.61	120.24	112.30
71	WE	501	GTP	C2-N3-C4	4.61	120.23	112.30
71	TC	501	GTP	C2-N3-C4	4.61	120.23	112.30
71	AG	501	GTP	C2-N3-C4	4.61	120.23	112.30
71	AC	501	GTP	C2-N3-C4	4.60	120.23	112.30
71	BG	501	GTP	C2-N3-C4	4.60	120.23	112.30
71	NC	501	GTP	C2-N3-C4	4.60	120.23	112.30
71	OI	501	GTP	C2-N3-C4	4.60	120.23	112.30
71	PM	501	GTP	C2-N3-C4	4.60	120.23	112.30
71	CB	501	GTP	C2-N3-C4	4.60	120.23	112.30
71	KB	501	GTP	C2-N3-C4	4.60	120.23	112.30
71	OC	501	GTP	C2-N3-C4	4.60	120.23	112.30
71	SE	501	GTP	C2-N3-C4	4.60	120.23	112.30
69	WH	500	GDP	N9-C4-N3	4.60	135.16	125.95
69	CA	500	GDP	N9-C4-N3	4.60	135.16	125.95
71	CL	501	GTP	C2-N3-C4	4.60	120.22	112.30
71	DL	501	GTP	C2-N3-C4	4.60	120.22	112.30
71	LN	501	GTP	C2-N3-C4	4.60	120.22	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
71	K	501	GTP	C2-N3-C4	4.60	120.22	112.30
71	VE	501	GTP	C2-N3-C4	4.60	120.22	112.30
71	UA	501	GTP	C2-N3-C4	4.60	120.22	112.30
71	EC	501	GTP	C2-N3-C4	4.60	120.22	112.30
71	JN	501	GTP	C2-N3-C4	4.60	120.22	112.30
71	TA	501	GTP	C2-N3-C4	4.60	120.22	112.30
71	FA	501	GTP	C2-N3-C4	4.59	120.21	112.30
71	OE	501	GTP	C2-N3-C4	4.59	120.21	112.30
71	OA	501	GTP	C2-N3-C4	4.59	120.21	112.30
71	SI	501	GTP	C2-N3-C4	4.59	120.21	112.30
71	GG	501	GTP	C2-N3-C4	4.59	120.21	112.30
71	NM	501	GTP	C2-N3-C4	4.59	120.21	112.30
71	WI	501	GTP	C2-N3-C4	4.59	120.21	112.30
71	FE	501	GTP	C2-N3-C4	4.59	120.21	112.30
71	MG	501	GTP	C2-N3-C4	4.59	120.21	112.30
71	OG	501	GTP	C2-N3-C4	4.59	120.21	112.30
71	NK	501	GTP	C2-N3-C4	4.59	120.21	112.30
71	FK	501	GTP	C2-N3-C4	4.59	120.20	112.30
71	LD	501	GTP	C2-N3-C4	4.59	120.20	112.30
69	CM	500	GDP	N9-C4-N3	4.59	135.13	125.95
69	QI	500	GDP	N9-C4-N3	4.59	135.13	125.95
71	WM	501	GTP	C2-N3-C4	4.59	120.20	112.30
71	EE	501	GTP	C2-N3-C4	4.59	120.20	112.30
69	RK	500	GDP	N9-C4-N3	4.59	135.12	125.95
71	D	501	GTP	C2-N3-C4	4.58	120.20	112.30
71	DD	501	GTP	C2-N3-C4	4.58	120.20	112.30
69	NH	500	GDP	N9-C4-N3	4.58	135.12	125.95
69	TL	500	GDP	N9-C4-N3	4.58	135.12	125.95
71	FG	501	GTP	C2-N3-C4	4.58	120.19	112.30
71	MC	501	GTP	C2-N3-C4	4.58	120.19	112.30
71	GK	501	GTP	C2-N3-C4	4.58	120.19	112.30
71	HE	501	GTP	C2-N3-C4	4.58	120.19	112.30
71	RH	501	GTP	C2-N3-C4	4.58	120.18	112.30
69	A	500	GDP	N9-C4-N3	4.57	135.10	125.95
69	ND	500	GDP	N9-C4-N3	4.57	135.10	125.95
71	TG	501	GTP	C2-N3-C4	4.57	120.17	112.30
69	OL	500	GDP	N9-C4-N3	4.57	135.09	125.95
71	CD	501	GTP	C2-N3-C4	4.57	120.17	112.30
71	GE	501	GTP	C2-N3-C4	4.57	120.17	112.30
69	QA	500	GDP	N9-C4-N3	4.57	135.09	125.95
71	MI	501	GTP	C2-N3-C4	4.57	120.17	112.30
71	QD	501	GTP	C2-N3-C4	4.57	120.17	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
71	JD	501	GTP	C2-N3-C4	4.57	120.16	112.30
71	PA	501	GTP	C2-N3-C4	4.57	120.16	112.30
69	GD	500	GDP	N9-C4-N3	4.56	135.08	125.95
71	PG	501	GTP	C2-N3-C4	4.56	120.16	112.30
71	L	501	GTP	C2-N3-C4	4.56	120.16	112.30
71	GA	501	GTP	C2-N3-C4	4.56	120.16	112.30
71	LB	501	GTP	C2-N3-C4	4.56	120.16	112.30
71	FI	501	GTP	C2-N3-C4	4.56	120.16	112.30
71	UK	501	GTP	C2-N3-C4	4.56	120.15	112.30
71	MM	501	GTP	C2-N3-C4	4.56	120.15	112.30
71	MK	501	GTP	C2-N3-C4	4.56	120.15	112.30
71	FC	501	GTP	C2-N3-C4	4.56	120.15	112.30
69	VF	500	GDP	N9-C4-N3	4.55	135.06	125.95
71	BI	501	GTP	C2-N3-C4	4.55	120.14	112.30
71	HI	501	GTP	C2-N3-C4	4.55	120.14	112.30
71	HG	501	GTP	C2-N3-C4	4.55	120.13	112.30
71	LL	501	GTP	C2-N3-C4	4.55	120.13	112.30
69	JE	500	GDP	N9-C4-N3	4.54	135.04	125.95
71	HA	501	GTP	C2-N3-C4	4.54	120.12	112.30
69	SH	500	GDP	N9-C4-N3	4.54	135.03	125.95
71	RD	501	GTP	C2-N3-C4	4.54	120.12	112.30
71	RB	501	GTP	C2-N3-C4	4.54	120.12	112.30
69	DA	500	GDP	N9-C4-N3	4.54	135.03	125.95
69	HH	500	GDP	N9-C4-N3	4.54	135.03	125.95
71	ME	501	GTP	C2-N3-C4	4.54	120.11	112.30
69	BH	500	GDP	N9-C4-N3	4.54	135.02	125.95
69	O	500	GDP	N9-C4-N3	4.54	135.02	125.95
69	KI	500	GDP	N9-C4-N3	4.53	135.02	125.95
69	WL	500	GDP	N9-C4-N3	4.53	135.02	125.95
71	PI	501	GTP	C2-N3-C4	4.53	120.11	112.30
71	TK	501	GTP	C2-N3-C4	4.53	120.11	112.30
69	GH	500	GDP	N9-C4-N3	4.53	135.01	125.95
69	OB	500	GDP	N9-C4-N3	4.53	135.01	125.95
69	FD	500	GDP	N9-C4-N3	4.53	135.00	125.95
69	BL	500	GDP	N9-C4-N3	4.53	135.00	125.95
69	F	500	GDP	N9-C4-N3	4.53	135.00	125.95
69	WD	500	GDP	N9-C4-N3	4.53	135.00	125.95
69	RE	500	GDP	N9-C4-N3	4.52	135.00	125.95
69	EF	500	GDP	N9-C4-N3	4.52	134.99	125.95
69	ML	500	GDP	N9-C4-N3	4.52	134.99	125.95
69	MH	500	GDP	N9-C4-N3	4.52	134.99	125.95
69	PL	500	GDP	N9-C4-N3	4.52	134.99	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	JK	500	GDP	N9-C4-N3	4.52	134.98	125.95
69	UH	500	GDP	N9-C4-N3	4.52	134.98	125.95
69	U	500	GDP	N9-C4-N3	4.51	134.98	125.95
69	GB	500	GDP	N9-C4-N3	4.51	134.97	125.95
69	QC	500	GDP	N9-C4-N3	4.51	134.97	125.95
69	KA	500	GDP	N9-C4-N3	4.51	134.97	125.95
69	GJ	500	GDP	N9-C4-N3	4.51	134.97	125.95
69	KE	500	GDP	N9-C4-N3	4.51	134.97	125.95
69	JA	500	GDP	N9-C4-N3	4.50	134.96	125.95
69	QG	500	GDP	N9-C4-N3	4.50	134.96	125.95
69	M	500	GDP	N9-C4-N3	4.50	134.96	125.95
69	LI	500	GDP	N9-C4-N3	4.50	134.96	125.95
69	FF	500	GDP	N9-C4-N3	4.49	134.94	125.95
69	BB	500	GDP	N9-C4-N3	4.49	134.94	125.95
69	EJ	500	GDP	N9-C4-N3	4.49	134.94	125.95
69	OD	500	GDP	N9-C4-N3	4.49	134.93	125.95
69	DK	500	GDP	N9-C4-N3	4.49	134.93	125.95
69	N	500	GDP	N9-C4-N3	4.48	134.92	125.95
69	AD	500	GDP	N9-C4-N3	4.48	134.91	125.95
69	DI	500	GDP	N9-C4-N3	4.48	134.91	125.95
69	LA	500	GDP	N9-C4-N3	4.48	134.91	125.95
69	KM	500	GDP	N9-C4-N3	4.48	134.91	125.95
69	LK	500	GDP	N9-C4-N3	4.48	134.91	125.95
69	TD	500	GDP	N9-C4-N3	4.48	134.90	125.95
71	GC	501	GTP	C2-N3-C4	4.48	120.01	112.30
69	IL	500	GDP	N9-C4-N3	4.47	134.90	125.95
69	FJ	500	GDP	N9-C4-N3	4.47	134.90	125.95
69	CG	500	GDP	N9-C4-N3	4.47	134.90	125.95
69	LG	500	GDP	N9-C4-N3	4.47	134.90	125.95
69	KG	500	GDP	N9-C4-N3	4.47	134.90	125.95
69	HJ	500	GDP	N9-C4-N3	4.47	134.89	125.95
69	VB	500	GDP	N9-C4-N3	4.47	134.89	125.95
69	G	500	GDP	N9-C4-N3	4.47	134.89	125.95
69	DE	500	GDP	N9-C4-N3	4.47	134.89	125.95
69	MD	500	GDP	N9-C4-N3	4.47	134.89	125.95
69	DG	500	GDP	N9-C4-N3	4.47	134.88	125.95
69	HD	500	GDP	N9-C4-N3	4.46	134.88	125.95
69	OJ	500	GDP	N9-C4-N3	4.46	134.88	125.95
69	IF	500	GDP	N9-C4-N3	4.46	134.88	125.95
69	H	500	GDP	N9-C4-N3	4.46	134.88	125.95
69	JM	500	GDP	N9-C4-N3	4.46	134.87	125.95
69	MB	500	GDP	N9-C4-N3	4.46	134.87	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	LM	500	GDP	N9-C4-N3	4.46	134.87	125.95
69	RI	500	GDP	N9-C4-N3	4.46	134.87	125.95
69	IH	500	GDP	N9-C4-N3	4.46	134.87	125.95
69	WF	500	GDP	N9-C4-N3	4.45	134.85	125.95
69	RG	500	GDP	N9-C4-N3	4.45	134.85	125.95
69	W	500	GDP	N9-C4-N3	4.45	134.85	125.95
69	NF	500	GDP	N9-C4-N3	4.45	134.85	125.95
69	LE	500	GDP	N9-C4-N3	4.45	134.84	125.95
69	SB	500	GDP	N9-C4-N3	4.45	134.84	125.95
69	AF	500	GDP	N9-C4-N3	4.44	134.84	125.95
69	QE	500	GDP	N9-C4-N3	4.44	134.84	125.95
69	T	500	GDP	N9-C4-N3	4.44	134.84	125.95
69	FB	500	GDP	N9-C4-N3	4.44	134.83	125.95
69	OH	500	GDP	N9-C4-N3	4.44	134.82	125.95
69	JG	500	GDP	N9-C4-N3	4.43	134.82	125.95
69	WB	500	GDP	N9-C4-N3	4.43	134.81	125.95
69	GL	500	GDP	N9-C4-N3	4.43	134.81	125.95
69	VJ	500	GDP	N9-C4-N3	4.43	134.81	125.95
69	RC	500	GDP	N9-C4-N3	4.43	134.81	125.95
69	SD	500	GDP	N9-C4-N3	4.43	134.81	125.95
69	UB	500	GDP	N9-C4-N3	4.43	134.81	125.95
69	I	500	GDP	N9-C4-N3	4.43	134.81	125.95
69	UD	500	GDP	N9-C4-N3	4.43	134.81	125.95
69	UF	500	GDP	N9-C4-N3	4.43	134.80	125.95
69	LC	500	GDP	N9-C4-N3	4.42	134.80	125.95
69	IB	500	GDP	N9-C4-N3	4.42	134.80	125.95
69	V	500	GDP	N9-C4-N3	4.42	134.80	125.95
69	OF	500	GDP	N9-C4-N3	4.42	134.79	125.95
69	KC	500	GDP	N9-C4-N3	4.42	134.79	125.95
69	BD	500	GDP	N9-C4-N3	4.42	134.79	125.95
69	AN	500	GDP	N9-C4-N3	4.42	134.79	125.95
69	CI	500	GDP	N9-C4-N3	4.42	134.78	125.95
69	FH	500	GDP	N9-C4-N3	4.42	134.78	125.95
69	S	500	GDP	N9-C4-N3	4.41	134.77	125.95
69	NJ	500	GDP	N9-C4-N3	4.41	134.76	125.95
69	NB	500	GDP	N9-C4-N3	4.40	134.76	125.95
69	TF	500	GDP	N9-C4-N3	4.40	134.76	125.95
69	ED	500	GDP	N9-C4-N3	4.40	134.76	125.95
69	VH	500	GDP	N9-C4-N3	4.40	134.76	125.95
69	MN	500	GDP	N9-C4-N3	4.40	134.75	125.95
69	TB	500	GDP	N9-C4-N3	4.40	134.75	125.95
69	DC	500	GDP	N9-C4-N3	4.40	134.75	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	JC	500	GDP	N9-C4-N3	4.40	134.75	125.95
69	TJ	500	GDP	N9-C4-N3	4.40	134.75	125.95
69	HL	500	GDP	N9-C4-N3	4.39	134.74	125.95
69	TH	500	GDP	N9-C4-N3	4.39	134.74	125.95
69	UL	500	GDP	N9-C4-N3	4.39	134.74	125.95
69	CC	500	GDP	N9-C4-N3	4.39	134.73	125.95
69	MJ	500	GDP	N9-C4-N3	4.39	134.73	125.95
69	HF	500	GDP	N9-C4-N3	4.39	134.73	125.95
69	VL	500	GDP	N9-C4-N3	4.38	134.72	125.95
69	FL	500	GDP	N9-C4-N3	4.38	134.72	125.95
69	SJ	500	GDP	N9-C4-N3	4.38	134.72	125.95
69	AJ	500	GDP	N9-C4-N3	4.38	134.72	125.95
69	IJ	500	GDP	N9-C4-N3	4.38	134.71	125.95
69	PJ	500	GDP	N9-C4-N3	4.38	134.71	125.95
69	BF	500	GDP	N9-C4-N3	4.38	134.71	125.95
69	VD	500	GDP	N9-C4-N3	4.38	134.70	125.95
69	RA	500	GDP	N9-C4-N3	4.37	134.69	125.95
69	ID	500	GDP	N9-C4-N3	4.37	134.69	125.95
69	LO	500	GDP	N9-C4-N3	4.37	134.68	125.95
69	MF	500	GDP	N9-C4-N3	4.37	134.68	125.95
69	JI	500	GDP	N9-C4-N3	4.36	134.68	125.95
69	KK	500	GDP	N9-C4-N3	4.36	134.67	125.95
69	UJ	500	GDP	N9-C4-N3	4.35	134.66	125.95
69	SF	500	GDP	N9-C4-N3	4.35	134.66	125.95
69	WJ	500	GDP	N9-C4-N3	4.34	134.64	125.95
69	HB	500	GDP	N9-C4-N3	4.34	134.63	125.95
69	BJ	500	GDP	N9-C4-N3	4.33	134.61	125.95
69	CE	500	GDP	N9-C4-N3	4.33	134.60	125.95
69	GF	500	GDP	N9-C4-N3	4.32	134.58	125.95
69	PB	500	GDP	N9-C4-N3	4.31	134.58	125.95
69	AL	500	GDP	N9-C4-N3	4.29	134.54	125.95
69	DM	500	GDP	N9-C4-N3	4.29	134.53	125.95
69	PH	500	GDP	N9-C4-N3	4.28	134.52	125.95
69	EB	500	GDP	N9-C4-N3	4.27	134.50	125.95
69	EL	500	GDP	N9-C4-N3	4.27	134.49	125.95
69	PD	500	GDP	N9-C4-N3	4.27	134.49	125.95
69	PF	500	GDP	N9-C4-N3	4.26	134.46	125.95
69	NL	500	GDP	N9-C4-N3	4.23	134.41	125.95
69	AB	500	GDP	N9-C4-N3	4.22	134.39	125.95
69	AH	500	GDP	N9-C4-N3	4.16	134.28	125.95
69	E	500	GDP	N9-C4-N3	4.16	134.27	125.95
69	EH	500	GDP	N9-C4-N3	4.13	134.21	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	E	500	GDP	C6-C5-N7	3.61	136.86	130.29
69	EL	500	GDP	C6-C5-N7	3.58	136.81	130.29
69	DM	500	GDP	C6-C5-N7	3.45	136.57	130.29
69	CC	500	GDP	C6-C5-N7	3.44	136.56	130.29
69	AB	500	GDP	C6-C5-N7	3.43	136.53	130.29
69	PH	500	GDP	C6-C5-N7	3.43	136.53	130.29
69	PF	500	GDP	C6-C5-N7	3.42	136.52	130.29
69	EH	500	GDP	C6-C5-N7	3.42	136.51	130.29
69	NL	500	GDP	C6-C5-N7	3.42	136.51	130.29
71	HK	501	GTP	N9-C4-N3	3.40	132.76	125.95
69	UJ	500	GDP	C6-C5-N7	3.40	136.48	130.29
69	PD	500	GDP	C6-C5-N7	3.40	136.48	130.29
69	FL	500	GDP	C6-C5-N7	3.40	136.47	130.29
71	QH	501	GTP	N9-C4-N3	3.40	132.75	125.95
71	IE	501	GTP	N9-C4-N3	3.39	132.74	125.95
69	KK	500	GDP	C6-C5-N7	3.38	136.45	130.29
69	AH	500	GDP	C6-C5-N7	3.38	136.44	130.29
69	BD	500	GDP	C6-C5-N7	3.38	136.44	130.29
69	BJ	500	GDP	C6-C5-N7	3.37	136.43	130.29
69	PJ	500	GDP	C6-C5-N7	3.37	136.42	130.29
69	WJ	500	GDP	C6-C5-N7	3.37	136.42	130.29
69	AL	500	GDP	C6-C5-N7	3.37	136.42	130.29
69	SF	500	GDP	C6-C5-N7	3.37	136.42	130.29
69	ID	500	GDP	C6-C5-N7	3.37	136.42	130.29
69	TF	500	GDP	C6-C5-N7	3.37	136.42	130.29
69	S	500	GDP	C6-C5-N7	3.36	136.41	130.29
69	ED	500	GDP	C6-C5-N7	3.36	136.41	130.29
69	DE	500	GDP	C6-C5-N7	3.36	136.41	130.29
69	PB	500	GDP	C6-C5-N7	3.36	136.41	130.29
69	VJ	500	GDP	C6-C5-N7	3.36	136.41	130.29
69	NJ	500	GDP	C6-C5-N7	3.36	136.40	130.29
69	HB	500	GDP	C6-C5-N7	3.36	136.40	130.29
71	IC	501	GTP	N9-C4-N3	3.35	132.66	125.95
69	GF	500	GDP	C6-C5-N7	3.35	136.39	130.29
69	VL	500	GDP	C6-C5-N7	3.35	136.39	130.29
69	EB	500	GDP	C6-C5-N7	3.35	136.39	130.29
69	CE	500	GDP	C6-C5-N7	3.35	136.38	130.29
69	SJ	500	GDP	C6-C5-N7	3.34	136.37	130.29
71	KH	501	GTP	N9-C4-N3	3.34	132.63	125.95
71	NG	501	GTP	N9-C4-N3	3.34	132.63	125.95
69	VH	500	GDP	C6-C5-N7	3.33	136.36	130.29
69	JC	500	GDP	C6-C5-N7	3.33	136.36	130.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
71	R	501	GTP	N9-C4-N3	3.33	132.62	125.95
69	UL	500	GDP	C6-C5-N7	3.33	136.35	130.29
69	JG	500	GDP	C6-C5-N7	3.33	136.35	130.29
71	IG	501	GTP	N9-C4-N3	3.33	132.61	125.95
71	LH	501	GTP	N9-C4-N3	3.33	132.61	125.95
69	DC	500	GDP	C6-C5-N7	3.32	136.34	130.29
71	QF	501	GTP	N9-C4-N3	3.32	132.59	125.95
69	LO	500	GDP	C6-C5-N7	3.32	136.33	130.29
69	OF	500	GDP	C6-C5-N7	3.32	136.32	130.29
69	TH	500	GDP	C6-C5-N7	3.31	136.32	130.29
69	UF	500	GDP	C6-C5-N7	3.31	136.32	130.29
69	VD	500	GDP	C6-C5-N7	3.31	136.32	130.29
71	II	501	GTP	N9-C4-N3	3.31	132.58	125.95
69	UB	500	GDP	C6-C5-N7	3.31	136.32	130.29
69	V	500	GDP	C6-C5-N7	3.31	136.32	130.29
69	MJ	500	GDP	C6-C5-N7	3.31	136.31	130.29
69	CG	500	GDP	C6-C5-N7	3.31	136.31	130.29
71	EC	501	GTP	N9-C4-N3	3.31	132.57	125.95
69	LG	500	GDP	C6-C5-N7	3.31	136.31	130.29
69	TJ	500	GDP	C6-C5-N7	3.31	136.31	130.29
69	T	500	GDP	C6-C5-N7	3.30	136.30	130.29
69	CI	500	GDP	C6-C5-N7	3.30	136.30	130.29
71	IA	501	GTP	N9-C4-N3	3.30	132.56	125.95
69	MN	500	GDP	C6-C5-N7	3.30	136.30	130.29
69	SD	500	GDP	C6-C5-N7	3.30	136.30	130.29
71	SG	501	GTP	N9-C4-N3	3.30	132.56	125.95
69	MB	500	GDP	C6-C5-N7	3.30	136.30	130.29
69	GL	500	GDP	C6-C5-N7	3.30	136.30	130.29
71	JH	501	GTP	N9-C4-N3	3.30	132.55	125.95
69	DK	500	GDP	C6-C5-N7	3.30	136.29	130.29
71	K	501	GTP	N9-C4-N3	3.30	132.55	125.95
69	JM	500	GDP	C6-C5-N7	3.30	136.29	130.29
69	LC	500	GDP	C6-C5-N7	3.30	136.29	130.29
71	AI	501	GTP	N9-C4-N3	3.30	132.55	125.95
69	VB	500	GDP	C6-C5-N7	3.30	136.29	130.29
69	HD	500	GDP	C6-C5-N7	3.30	136.29	130.29
71	VA	501	GTP	N9-C4-N3	3.29	132.54	125.95
71	BG	501	GTP	N9-C4-N3	3.29	132.54	125.95
69	FH	500	GDP	C6-C5-N7	3.29	136.28	130.29
69	AD	500	GDP	C6-C5-N7	3.29	136.28	130.29
69	AN	500	GDP	C6-C5-N7	3.29	136.28	130.29
69	MF	500	GDP	C6-C5-N7	3.29	136.28	130.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	HJ	500	GDP	C6-C5-N7	3.29	136.27	130.29
69	SB	500	GDP	C6-C5-N7	3.29	136.27	130.29
69	JI	500	GDP	C6-C5-N7	3.28	136.27	130.29
71	CH	501	GTP	N9-C4-N3	3.28	132.52	125.95
69	IJ	500	GDP	C6-C5-N7	3.28	136.26	130.29
69	BF	500	GDP	C6-C5-N7	3.28	136.26	130.29
69	H	500	GDP	C6-C5-N7	3.28	136.26	130.29
71	DF	501	GTP	N9-C4-N3	3.28	132.51	125.95
69	KC	500	GDP	C6-C5-N7	3.28	136.26	130.29
69	LA	500	GDP	C6-C5-N7	3.28	136.26	130.29
69	LM	500	GDP	C6-C5-N7	3.28	136.26	130.29
69	TD	500	GDP	C6-C5-N7	3.28	136.26	130.29
69	HF	500	GDP	C6-C5-N7	3.28	136.26	130.29
71	OK	501	GTP	N9-C4-N3	3.28	132.51	125.95
69	WB	500	GDP	C6-C5-N7	3.28	136.25	130.29
71	GI	501	GTP	N9-C4-N3	3.28	132.51	125.95
71	J	501	GTP	N9-C4-N3	3.28	132.51	125.95
69	QE	500	GDP	C6-C5-N7	3.28	136.25	130.29
71	KL	501	GTP	N9-C4-N3	3.28	132.50	125.95
69	W	500	GDP	C6-C5-N7	3.28	136.25	130.29
69	I	500	GDP	C6-C5-N7	3.27	136.25	130.29
71	SK	501	GTP	N9-C4-N3	3.27	132.50	125.95
69	LK	500	GDP	C6-C5-N7	3.27	136.24	130.29
69	AF	500	GDP	C6-C5-N7	3.27	136.24	130.29
69	MD	500	GDP	C6-C5-N7	3.27	136.24	130.29
71	NE	501	GTP	N9-C4-N3	3.27	132.49	125.95
71	TE	501	GTP	N9-C4-N3	3.27	132.49	125.95
69	RA	500	GDP	C6-C5-N7	3.27	136.24	130.29
69	EJ	500	GDP	C6-C5-N7	3.27	136.24	130.29
69	KM	500	GDP	C6-C5-N7	3.27	136.24	130.29
69	N	500	GDP	C6-C5-N7	3.27	136.24	130.29
71	VC	501	GTP	N9-C4-N3	3.27	132.49	125.95
69	BB	500	GDP	C6-C5-N7	3.27	136.24	130.29
71	WM	501	GTP	N9-C4-N3	3.27	132.49	125.95
69	WF	500	GDP	C6-C5-N7	3.27	136.23	130.29
69	IH	500	GDP	C6-C5-N7	3.27	136.23	130.29
71	IK	501	GTP	N9-C4-N3	3.27	132.48	125.95
71	VG	501	GTP	N9-C4-N3	3.27	132.48	125.95
69	FJ	500	GDP	C6-C5-N7	3.26	136.23	130.29
71	NM	501	GTP	N9-C4-N3	3.26	132.48	125.95
71	DH	501	GTP	N9-C4-N3	3.26	132.48	125.95
69	NB	500	GDP	C6-C5-N7	3.26	136.22	130.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
71	BE	501	GTP	N9-C4-N3	3.26	132.47	125.95
69	TB	500	GDP	C6-C5-N7	3.26	136.22	130.29
71	JF	501	GTP	N9-C4-N3	3.26	132.47	125.95
69	IF	500	GDP	C6-C5-N7	3.26	136.21	130.29
71	HM	501	GTP	N9-C4-N3	3.25	132.46	125.95
71	NC	501	GTP	N9-C4-N3	3.25	132.46	125.95
69	AJ	500	GDP	C6-C5-N7	3.25	136.21	130.29
69	IB	500	GDP	C6-C5-N7	3.25	136.21	130.29
69	JA	500	GDP	C6-C5-N7	3.25	136.21	130.29
71	IM	501	GTP	N9-C4-N3	3.25	132.45	125.95
69	G	500	GDP	C6-C5-N7	3.25	136.20	130.29
71	SC	501	GTP	N9-C4-N3	3.25	132.45	125.95
71	D	501	GTP	N9-C4-N3	3.25	132.45	125.95
69	IL	500	GDP	C6-C5-N7	3.25	136.20	130.29
69	OJ	500	GDP	C6-C5-N7	3.25	136.20	130.29
69	U	500	GDP	C6-C5-N7	3.25	136.20	130.29
69	DA	500	GDP	C6-C5-N7	3.25	136.20	130.29
69	MH	500	GDP	C6-C5-N7	3.25	136.20	130.29
71	HC	501	GTP	N9-C4-N3	3.25	132.44	125.95
71	Q	501	GTP	N9-C4-N3	3.25	132.44	125.95
69	QG	500	GDP	C6-C5-N7	3.25	136.20	130.29
69	HL	500	GDP	C6-C5-N7	3.24	136.19	130.29
71	VE	501	GTP	N9-C4-N3	3.24	132.44	125.95
69	DI	500	GDP	C6-C5-N7	3.24	136.19	130.29
69	EF	500	GDP	C6-C5-N7	3.24	136.19	130.29
71	AK	501	GTP	N9-C4-N3	3.24	132.44	125.95
69	HH	500	GDP	C6-C5-N7	3.24	136.19	130.29
71	QJ	501	GTP	N9-C4-N3	3.24	132.43	125.95
71	KB	501	GTP	N9-C4-N3	3.24	132.43	125.95
71	TI	501	GTP	N9-C4-N3	3.24	132.43	125.95
69	UD	500	GDP	C6-C5-N7	3.24	136.18	130.29
69	DG	500	GDP	C6-C5-N7	3.24	136.18	130.29
71	VI	501	GTP	N9-C4-N3	3.24	132.42	125.95
69	RC	500	GDP	C6-C5-N7	3.23	136.18	130.29
71	GA	501	GTP	N9-C4-N3	3.23	132.42	125.95
71	JN	501	GTP	N9-C4-N3	3.23	132.42	125.95
71	HE	501	GTP	N9-C4-N3	3.23	132.41	125.95
69	OD	500	GDP	C6-C5-N7	3.23	136.17	130.29
69	KE	500	GDP	C6-C5-N7	3.23	136.17	130.29
71	KF	501	GTP	N9-C4-N3	3.23	132.41	125.95
71	FI	501	GTP	N9-C4-N3	3.23	132.41	125.95
69	GH	500	GDP	C6-C5-N7	3.23	136.17	130.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
71	EG	501	GTP	N9-C4-N3	3.23	132.41	125.95
69	NF	500	GDP	C6-C5-N7	3.23	136.16	130.29
69	WL	500	GDP	C6-C5-N7	3.23	136.16	130.29
71	AE	501	GTP	N9-C4-N3	3.23	132.40	125.95
71	NI	501	GTP	N9-C4-N3	3.22	132.40	125.95
69	WD	500	GDP	C6-C5-N7	3.22	136.16	130.29
71	UA	501	GTP	N9-C4-N3	3.22	132.40	125.95
69	TL	500	GDP	C6-C5-N7	3.22	136.16	130.29
69	GJ	500	GDP	C6-C5-N7	3.22	136.16	130.29
71	BI	501	GTP	N9-C4-N3	3.22	132.39	125.95
69	M	500	GDP	C6-C5-N7	3.22	136.15	130.29
69	JK	500	GDP	C6-C5-N7	3.22	136.15	130.29
69	KA	500	GDP	C6-C5-N7	3.22	136.15	130.29
71	AC	501	GTP	N9-C4-N3	3.22	132.39	125.95
69	GB	500	GDP	C6-C5-N7	3.22	136.14	130.29
69	JE	500	GDP	C6-C5-N7	3.22	136.14	130.29
69	KG	500	GDP	C6-C5-N7	3.22	136.14	130.29
71	FE	501	GTP	N9-C4-N3	3.22	132.38	125.95
71	TA	501	GTP	N9-C4-N3	3.21	132.38	125.95
69	RG	500	GDP	C6-C5-N7	3.21	136.14	130.29
69	OH	500	GDP	C6-C5-N7	3.21	136.14	130.29
69	BH	500	GDP	C6-C5-N7	3.21	136.13	130.29
69	F	500	GDP	C6-C5-N7	3.21	136.13	130.29
69	FB	500	GDP	C6-C5-N7	3.21	136.13	130.29
69	FD	500	GDP	C6-C5-N7	3.21	136.13	130.29
69	ML	500	GDP	C6-C5-N7	3.21	136.13	130.29
69	SH	500	GDP	C6-C5-N7	3.21	136.13	130.29
69	VF	500	GDP	C6-C5-N7	3.21	136.13	130.29
71	FC	501	GTP	N9-C4-N3	3.21	132.36	125.95
69	A	500	GDP	C6-C5-N7	3.21	136.12	130.29
69	PL	500	GDP	C6-C5-N7	3.20	136.12	130.29
71	BC	501	GTP	N9-C4-N3	3.20	132.36	125.95
71	FK	501	GTP	N9-C4-N3	3.20	132.36	125.95
69	QC	500	GDP	C6-C5-N7	3.20	136.12	130.29
71	EE	501	GTP	N9-C4-N3	3.20	132.36	125.95
69	O	500	GDP	C6-C5-N7	3.20	136.12	130.29
69	QI	500	GDP	C6-C5-N7	3.20	136.12	130.29
71	HI	501	GTP	N9-C4-N3	3.20	132.35	125.95
71	QL	501	GTP	N9-C4-N3	3.20	132.35	125.95
69	UH	500	GDP	C6-C5-N7	3.20	136.11	130.29
71	BA	501	GTP	N9-C4-N3	3.20	132.34	125.95
69	LE	500	GDP	C6-C5-N7	3.20	136.11	130.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
71	UI	501	GTP	N9-C4-N3	3.20	132.34	125.95
69	LI	500	GDP	C6-C5-N7	3.20	136.10	130.29
71	HG	501	GTP	N9-C4-N3	3.19	132.34	125.95
69	RE	500	GDP	C6-C5-N7	3.19	136.10	130.29
69	KI	500	GDP	C6-C5-N7	3.19	136.10	130.29
71	EA	501	GTP	N9-C4-N3	3.19	132.34	125.95
69	NH	500	GDP	C6-C5-N7	3.19	136.10	130.29
71	AM	501	GTP	N9-C4-N3	3.19	132.33	125.95
71	L	501	GTP	N9-C4-N3	3.19	132.33	125.95
71	RD	501	GTP	N9-C4-N3	3.19	132.33	125.95
71	BM	501	GTP	N9-C4-N3	3.19	132.33	125.95
71	KD	501	GTP	N9-C4-N3	3.19	132.33	125.95
71	KN	501	GTP	N9-C4-N3	3.19	132.32	125.95
69	BL	500	GDP	C6-C5-N7	3.19	136.09	130.29
69	GD	500	GDP	C6-C5-N7	3.19	136.09	130.29
71	JJ	501	GTP	N9-C4-N3	3.18	132.32	125.95
71	TG	501	GTP	N9-C4-N3	3.18	132.32	125.95
71	UC	501	GTP	N9-C4-N3	3.18	132.32	125.95
69	FF	500	GDP	C6-C5-N7	3.18	136.08	130.29
71	DJ	501	GTP	N9-C4-N3	3.18	132.31	125.95
69	BN	500	GDP	C6-C5-N7	3.18	136.08	130.29
69	OL	500	GDP	C6-C5-N7	3.18	136.07	130.29
71	OE	501	GTP	N9-C4-N3	3.18	132.31	125.95
69	RK	500	GDP	C6-C5-N7	3.18	136.07	130.29
71	FG	501	GTP	N9-C4-N3	3.18	132.31	125.95
71	MA	501	GTP	N9-C4-N3	3.17	132.30	125.95
69	RI	500	GDP	C6-C5-N7	3.17	136.07	130.29
71	PK	501	GTP	N9-C4-N3	3.17	132.30	125.95
71	PM	501	GTP	N9-C4-N3	3.17	132.30	125.95
71	CJ	501	GTP	N9-C4-N3	3.17	132.30	125.95
69	CM	500	GDP	C6-C5-N7	3.17	136.06	130.29
71	MM	501	GTP	N9-C4-N3	3.17	132.29	125.95
71	WE	501	GTP	N9-C4-N3	3.17	132.29	125.95
71	AG	501	GTP	N9-C4-N3	3.17	132.29	125.95
71	CF	501	GTP	N9-C4-N3	3.17	132.29	125.95
71	UE	501	GTP	N9-C4-N3	3.17	132.29	125.95
71	PA	501	GTP	N9-C4-N3	3.17	132.29	125.95
71	GG	501	GTP	N9-C4-N3	3.17	132.28	125.95
71	EI	501	GTP	N9-C4-N3	3.17	132.28	125.95
71	QB	501	GTP	N9-C4-N3	3.17	132.28	125.95
69	QA	500	GDP	C6-C5-N7	3.17	136.05	130.29
71	UG	501	GTP	N9-C4-N3	3.16	132.28	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
71	WA	501	GTP	N9-C4-N3	3.16	132.28	125.95
71	VM	501	GTP	N9-C4-N3	3.16	132.27	125.95
71	NA	501	GTP	N9-C4-N3	3.16	132.27	125.95
69	CA	500	GDP	C6-C5-N7	3.16	136.04	130.29
69	QK	500	GDP	C6-C5-N7	3.16	136.04	130.29
71	MG	501	GTP	N9-C4-N3	3.16	132.26	125.95
71	WC	501	GTP	N9-C4-N3	3.16	132.26	125.95
71	RH	501	GTP	N9-C4-N3	3.16	132.26	125.95
71	OI	501	GTP	N9-C4-N3	3.15	132.26	125.95
71	RF	501	GTP	N9-C4-N3	3.15	132.26	125.95
71	WG	501	GTP	N9-C4-N3	3.15	132.26	125.95
69	WH	500	GDP	C6-C5-N7	3.15	136.03	130.29
69	ND	500	GDP	C6-C5-N7	3.15	136.03	130.29
71	KJ	501	GTP	N9-C4-N3	3.15	132.25	125.95
71	OG	501	GTP	N9-C4-N3	3.14	132.24	125.95
71	OA	501	GTP	N9-C4-N3	3.14	132.24	125.95
71	GK	501	GTP	N9-C4-N3	3.13	132.22	125.95
71	RL	501	GTP	N9-C4-N3	3.13	132.22	125.95
71	OM	501	GTP	N9-C4-N3	3.13	132.21	125.95
71	RJ	501	GTP	N9-C4-N3	3.13	132.21	125.95
71	DB	501	GTP	N9-C4-N3	3.13	132.21	125.95
71	LF	501	GTP	N9-C4-N3	3.13	132.20	125.95
71	GE	501	GTP	N9-C4-N3	3.12	132.20	125.95
71	LJ	501	GTP	N9-C4-N3	3.12	132.20	125.95
71	DL	501	GTP	N9-C4-N3	3.12	132.20	125.95
71	LL	501	GTP	N9-C4-N3	3.12	132.20	125.95
71	PE	501	GTP	N9-C4-N3	3.12	132.19	125.95
69	CK	500	GDP	C6-C5-N7	3.12	135.97	130.29
71	BK	501	GTP	N9-C4-N3	3.12	132.19	125.95
71	AA	501	GTP	N9-C4-N3	3.12	132.19	125.95
71	DD	501	GTP	N9-C4-N3	3.12	132.19	125.95
71	QD	501	GTP	N9-C4-N3	3.12	132.18	125.95
71	NK	501	GTP	N9-C4-N3	3.11	132.18	125.95
71	LB	501	GTP	N9-C4-N3	3.11	132.18	125.95
69	OB	500	GDP	C6-C5-N7	3.11	135.96	130.29
71	HA	501	GTP	N9-C4-N3	3.11	132.16	125.95
71	MK	501	GTP	N9-C4-N3	3.10	132.16	125.95
71	PC	501	GTP	N9-C4-N3	3.10	132.16	125.95
71	UK	501	GTP	N9-C4-N3	3.10	132.15	125.95
71	JB	501	GTP	N9-C4-N3	3.10	132.15	125.95
71	SE	501	GTP	N9-C4-N3	3.09	132.14	125.95
71	CD	501	GTP	N9-C4-N3	3.09	132.14	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
71	C	501	GTP	N9-C4-N3	3.09	132.14	125.95
71	FA	501	GTP	N9-C4-N3	3.09	132.13	125.95
71	MC	501	GTP	N9-C4-N3	3.09	132.13	125.95
71	TC	501	GTP	N9-C4-N3	3.09	132.13	125.95
71	TK	501	GTP	N9-C4-N3	3.09	132.13	125.95
71	WK	501	GTP	N9-C4-N3	3.09	132.12	125.95
71	RB	501	GTP	N9-C4-N3	3.08	132.12	125.95
71	SA	501	GTP	N9-C4-N3	3.08	132.11	125.95
71	IA	501	GTP	C2-N1-C6	-3.08	119.53	125.11
71	MI	501	GTP	N9-C4-N3	3.07	132.10	125.95
71	VK	501	GTP	N9-C4-N3	3.07	132.10	125.95
71	EK	501	GTP	N9-C4-N3	3.07	132.10	125.95
71	LN	501	GTP	N9-C4-N3	3.06	132.08	125.95
71	HK	501	GTP	C2-N1-C6	-3.06	119.56	125.11
71	WI	501	GTP	N9-C4-N3	3.05	132.06	125.95
71	EA	501	GTP	C2-N1-C6	-3.04	119.59	125.11
71	IC	501	GTP	C2-N1-C6	-3.04	119.59	125.11
71	PI	501	GTP	N9-C4-N3	3.04	132.03	125.95
71	GC	501	GTP	N9-C4-N3	3.02	132.00	125.95
71	QB	501	GTP	C2-N1-C6	-3.02	119.63	125.11
71	LF	501	GTP	C2-N1-C6	-3.02	119.63	125.11
71	WM	501	GTP	C2-N1-C6	-3.02	119.63	125.11
71	PG	501	GTP	N9-C4-N3	3.02	131.99	125.95
71	PA	501	GTP	C2-N1-C6	-3.01	119.64	125.11
71	PK	501	GTP	C2-N1-C6	-3.01	119.65	125.11
71	LD	501	GTP	N9-C4-N3	3.01	131.98	125.95
71	KH	501	GTP	C2-N1-C6	-3.01	119.65	125.11
71	OC	501	GTP	N9-C4-N3	3.01	131.96	125.95
71	TE	501	GTP	C2-N1-C6	-3.01	119.66	125.11
71	JL	501	GTP	N9-C4-N3	3.00	131.96	125.95
71	SI	501	GTP	N9-C4-N3	3.00	131.96	125.95
71	LH	501	GTP	C2-N1-C6	-3.00	119.67	125.11
71	LB	501	GTP	C2-N1-C6	-3.00	119.67	125.11
71	RJ	501	GTP	C2-N1-C6	-3.00	119.68	125.11
71	QL	501	GTP	C2-N1-C6	-2.99	119.68	125.11
71	DJ	501	GTP	C2-N1-C6	-2.99	119.68	125.11
71	CL	501	GTP	N9-C4-N3	2.99	131.94	125.95
71	NM	501	GTP	C2-N1-C6	-2.99	119.69	125.11
71	II	501	GTP	C2-N1-C6	-2.99	119.69	125.11
71	KB	501	GTP	C2-N1-C6	-2.99	119.69	125.11
71	JH	501	GTP	C2-N1-C6	-2.99	119.69	125.11
71	CL	501	GTP	C2-N1-C6	-2.99	119.69	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
71	OC	501	GTP	C2-N1-C6	-2.98	119.70	125.11
71	CH	501	GTP	C2-N1-C6	-2.98	119.70	125.11
71	SE	501	GTP	C2-N1-C6	-2.98	119.70	125.11
71	MM	501	GTP	C2-N1-C6	-2.98	119.70	125.11
71	QD	501	GTP	C2-N1-C6	-2.98	119.70	125.11
71	FC	501	GTP	C2-N1-C6	-2.98	119.71	125.11
71	EI	501	GTP	C2-N1-C6	-2.98	119.71	125.11
71	QH	501	GTP	C2-N1-C6	-2.98	119.71	125.11
71	MA	501	GTP	C2-N1-C6	-2.98	119.71	125.11
71	CJ	501	GTP	C2-N1-C6	-2.98	119.71	125.11
71	EG	501	GTP	C2-N1-C6	-2.98	119.71	125.11
71	OK	501	GTP	C2-N1-C6	-2.98	119.72	125.11
71	VI	501	GTP	C2-N1-C6	-2.97	119.72	125.11
71	IM	501	GTP	C2-N1-C6	-2.97	119.72	125.11
71	VA	501	GTP	C2-N1-C6	-2.97	119.72	125.11
71	CB	501	GTP	C2-N1-C6	-2.97	119.72	125.11
71	NG	501	GTP	C2-N1-C6	-2.97	119.72	125.11
71	QF	501	GTP	C2-N1-C6	-2.97	119.72	125.11
71	D	501	GTP	C2-N1-C6	-2.97	119.73	125.11
71	KD	501	GTP	C2-N1-C6	-2.97	119.73	125.11
71	NC	501	GTP	C2-N1-C6	-2.97	119.73	125.11
71	IE	501	GTP	C2-N1-C6	-2.97	119.73	125.11
71	PC	501	GTP	C2-N1-C6	-2.97	119.73	125.11
71	PI	501	GTP	C2-N1-C6	-2.97	119.73	125.11
71	DH	501	GTP	C2-N1-C6	-2.97	119.73	125.11
71	NI	501	GTP	C2-N1-C6	-2.97	119.73	125.11
71	CB	501	GTP	N9-C4-N3	2.97	131.89	125.95
71	JD	501	GTP	C2-N1-C6	-2.97	119.73	125.11
71	UA	501	GTP	C2-N1-C6	-2.97	119.73	125.11
71	OE	501	GTP	C2-N1-C6	-2.97	119.73	125.11
71	SG	501	GTP	C2-N1-C6	-2.97	119.73	125.11
71	NA	501	GTP	C2-N1-C6	-2.96	119.73	125.11
71	KF	501	GTP	C2-N1-C6	-2.96	119.73	125.11
71	IG	501	GTP	C2-N1-C6	-2.96	119.74	125.11
71	UI	501	GTP	C2-N1-C6	-2.96	119.74	125.11
71	VC	501	GTP	C2-N1-C6	-2.96	119.74	125.11
71	SI	501	GTP	C2-N1-C6	-2.96	119.74	125.11
71	EE	501	GTP	C2-N1-C6	-2.96	119.74	125.11
71	AK	501	GTP	C2-N1-C6	-2.96	119.74	125.11
71	DD	501	GTP	C2-N1-C6	-2.96	119.74	125.11
71	JJ	501	GTP	C2-N1-C6	-2.96	119.74	125.11
71	PE	501	GTP	C2-N1-C6	-2.96	119.74	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
71	QJ	501	GTP	C2-N1-C6	-2.96	119.75	125.11
71	TI	501	GTP	C2-N1-C6	-2.96	119.75	125.11
71	BG	501	GTP	C2-N1-C6	-2.96	119.75	125.11
71	LN	501	GTP	C2-N1-C6	-2.96	119.75	125.11
71	AI	501	GTP	C2-N1-C6	-2.96	119.75	125.11
71	JF	501	GTP	C2-N1-C6	-2.96	119.75	125.11
71	K	501	GTP	C2-N1-C6	-2.95	119.75	125.11
71	L	501	GTP	C2-N1-C6	-2.95	119.75	125.11
71	ME	501	GTP	N9-C4-N3	2.95	131.86	125.95
71	DF	501	GTP	C2-N1-C6	-2.95	119.75	125.11
71	J	501	GTP	C2-N1-C6	-2.95	119.75	125.11
71	KL	501	GTP	C2-N1-C6	-2.95	119.75	125.11
71	VG	501	GTP	C2-N1-C6	-2.95	119.75	125.11
71	AE	501	GTP	C2-N1-C6	-2.95	119.75	125.11
71	BK	501	GTP	C2-N1-C6	-2.95	119.75	125.11
71	OG	501	GTP	C2-N1-C6	-2.95	119.76	125.11
71	DB	501	GTP	C2-N1-C6	-2.95	119.76	125.11
71	BE	501	GTP	C2-N1-C6	-2.95	119.76	125.11
71	TG	501	GTP	C2-N1-C6	-2.95	119.76	125.11
71	VM	501	GTP	C2-N1-C6	-2.95	119.76	125.11
71	GK	501	GTP	C2-N1-C6	-2.95	119.76	125.11
71	AM	501	GTP	C2-N1-C6	-2.95	119.77	125.11
71	DL	501	GTP	C2-N1-C6	-2.95	119.77	125.11
71	JN	501	GTP	C2-N1-C6	-2.95	119.77	125.11
71	TK	501	GTP	C2-N1-C6	-2.95	119.77	125.11
71	UC	501	GTP	C2-N1-C6	-2.95	119.77	125.11
71	OI	501	GTP	C2-N1-C6	-2.95	119.77	125.11
71	MK	501	GTP	C2-N1-C6	-2.95	119.77	125.11
71	NE	501	GTP	C2-N1-C6	-2.95	119.77	125.11
71	GC	501	GTP	C2-N1-C6	-2.94	119.77	125.11
71	RB	501	GTP	C2-N1-C6	-2.94	119.77	125.11
71	FG	501	GTP	C2-N1-C6	-2.94	119.77	125.11
71	WC	501	GTP	C2-N1-C6	-2.94	119.77	125.11
71	RF	501	GTP	C2-N1-C6	-2.94	119.78	125.11
71	WA	501	GTP	C2-N1-C6	-2.94	119.78	125.11
71	R	501	GTP	C2-N1-C6	-2.94	119.78	125.11
71	EK	501	GTP	C2-N1-C6	-2.94	119.78	125.11
71	WG	501	GTP	C2-N1-C6	-2.94	119.78	125.11
71	OM	501	GTP	C2-N1-C6	-2.94	119.78	125.11
71	SK	501	GTP	C2-N1-C6	-2.94	119.78	125.11
71	FK	501	GTP	C2-N1-C6	-2.94	119.78	125.11
71	JD	501	GTP	N9-C4-N3	2.94	131.83	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
71	CF	501	GTP	C2-N1-C6	-2.94	119.78	125.11
71	Q	501	GTP	C2-N1-C6	-2.94	119.78	125.11
71	WI	501	GTP	C2-N1-C6	-2.94	119.78	125.11
71	LD	501	GTP	C2-N1-C6	-2.94	119.79	125.11
71	MI	501	GTP	C2-N1-C6	-2.93	119.79	125.11
71	KN	501	GTP	C2-N1-C6	-2.93	119.79	125.11
71	PG	501	GTP	C2-N1-C6	-2.93	119.79	125.11
71	WE	501	GTP	C2-N1-C6	-2.93	119.79	125.11
71	NK	501	GTP	C2-N1-C6	-2.93	119.79	125.11
71	C	501	GTP	C2-N1-C6	-2.93	119.79	125.11
71	BM	501	GTP	C2-N1-C6	-2.93	119.80	125.11
71	JL	501	GTP	C2-N1-C6	-2.93	119.80	125.11
71	UG	501	GTP	C2-N1-C6	-2.93	119.80	125.11
71	BA	501	GTP	C2-N1-C6	-2.93	119.80	125.11
71	HC	501	GTP	C2-N1-C6	-2.93	119.80	125.11
71	OA	501	GTP	C2-N1-C6	-2.93	119.81	125.11
71	AA	501	GTP	C2-N1-C6	-2.93	119.81	125.11
71	GE	501	GTP	C2-N1-C6	-2.93	119.81	125.11
71	AG	501	GTP	C2-N1-C6	-2.92	119.81	125.11
71	VK	501	GTP	C2-N1-C6	-2.92	119.81	125.11
71	LL	501	GTP	C2-N1-C6	-2.92	119.81	125.11
71	HG	501	GTP	C2-N1-C6	-2.92	119.81	125.11
71	GI	501	GTP	C2-N1-C6	-2.92	119.81	125.11
71	HE	501	GTP	C2-N1-C6	-2.92	119.81	125.11
71	BC	501	GTP	C2-N1-C6	-2.92	119.82	125.11
71	FI	501	GTP	C2-N1-C6	-2.92	119.82	125.11
71	WK	501	GTP	C2-N1-C6	-2.92	119.82	125.11
71	GA	501	GTP	C2-N1-C6	-2.92	119.82	125.11
71	JB	501	GTP	C2-N1-C6	-2.92	119.82	125.11
71	RH	501	GTP	C2-N1-C6	-2.92	119.82	125.11
71	AC	501	GTP	C2-N1-C6	-2.92	119.82	125.11
71	PM	501	GTP	C2-N1-C6	-2.91	119.83	125.11
71	MG	501	GTP	C2-N1-C6	-2.91	119.83	125.11
71	UE	501	GTP	C2-N1-C6	-2.91	119.83	125.11
71	MC	501	GTP	C2-N1-C6	-2.91	119.83	125.11
71	SC	501	GTP	C2-N1-C6	-2.91	119.83	125.11
71	GG	501	GTP	C2-N1-C6	-2.91	119.83	125.11
71	FE	501	GTP	C2-N1-C6	-2.91	119.84	125.11
71	VE	501	GTP	C2-N1-C6	-2.91	119.84	125.11
71	CD	501	GTP	C2-N1-C6	-2.91	119.84	125.11
71	RD	501	GTP	C2-N1-C6	-2.91	119.84	125.11
71	UK	501	GTP	C2-N1-C6	-2.91	119.84	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
71	FA	501	GTP	C2-N1-C6	-2.90	119.84	125.11
71	ME	501	GTP	C2-N1-C6	-2.90	119.84	125.11
71	SA	501	GTP	C2-N1-C6	-2.90	119.84	125.11
71	EC	501	GTP	C2-N1-C6	-2.90	119.85	125.11
71	KJ	501	GTP	C2-N1-C6	-2.90	119.85	125.11
71	TA	501	GTP	C2-N1-C6	-2.89	119.87	125.11
71	TC	501	GTP	C2-N1-C6	-2.87	119.90	125.11
71	HM	501	GTP	C2-N1-C6	-2.87	119.90	125.11
71	LJ	501	GTP	C2-N1-C6	-2.87	119.91	125.11
71	BI	501	GTP	C2-N1-C6	-2.87	119.91	125.11
71	RL	501	GTP	C2-N1-C6	-2.85	119.94	125.11
71	HI	501	GTP	C2-N1-C6	-2.84	119.96	125.11
71	ME	501	GTP	N9-C8-N7	-2.77	108.26	113.40
71	LD	501	GTP	N9-C8-N7	-2.76	108.27	113.40
71	HA	501	GTP	C2-N1-C6	-2.76	120.11	125.11
71	OA	501	GTP	N9-C8-N7	-2.76	108.29	113.40
71	EE	501	GTP	N9-C8-N7	-2.75	108.31	113.40
71	SI	501	GTP	N9-C8-N7	-2.74	108.31	113.40
71	PM	501	GTP	N9-C8-N7	-2.74	108.31	113.40
71	MI	501	GTP	N9-C8-N7	-2.74	108.31	113.40
71	OC	501	GTP	N9-C8-N7	-2.74	108.32	113.40
71	JD	501	GTP	N9-C8-N7	-2.74	108.33	113.40
71	CB	501	GTP	N9-C8-N7	-2.74	108.33	113.40
71	UC	501	GTP	N9-C8-N7	-2.74	108.33	113.40
71	CD	501	GTP	N9-C8-N7	-2.73	108.34	113.40
71	IK	501	GTP	N9-C8-N7	-2.73	108.34	113.40
71	DJ	501	GTP	N9-C8-N7	-2.73	108.34	113.40
71	EK	501	GTP	N9-C8-N7	-2.73	108.34	113.40
71	BK	501	GTP	N9-C8-N7	-2.73	108.35	113.40
71	RB	501	GTP	N9-C8-N7	-2.72	108.35	113.40
71	KD	501	GTP	N9-C8-N7	-2.72	108.35	113.40
71	LL	501	GTP	N9-C8-N7	-2.72	108.35	113.40
71	AK	501	GTP	N9-C8-N7	-2.72	108.35	113.40
71	FK	501	GTP	N9-C8-N7	-2.72	108.35	113.40
71	D	501	GTP	N9-C8-N7	-2.72	108.36	113.40
71	EA	501	GTP	N9-C8-N7	-2.72	108.36	113.40
71	FE	501	GTP	N9-C8-N7	-2.72	108.36	113.40
71	DD	501	GTP	N9-C8-N7	-2.72	108.36	113.40
71	TI	501	GTP	N9-C8-N7	-2.71	108.37	113.40
71	PI	501	GTP	N9-C8-N7	-2.71	108.37	113.40
71	AA	501	GTP	N9-C8-N7	-2.71	108.37	113.40
71	PA	501	GTP	N9-C8-N7	-2.71	108.37	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
71	CL	501	GTP	N9-C8-N7	-2.71	108.37	113.40
71	UI	501	GTP	N9-C8-N7	-2.71	108.37	113.40
71	RF	501	GTP	N9-C8-N7	-2.71	108.38	113.40
71	WI	501	GTP	N9-C8-N7	-2.70	108.39	113.40
69	E	500	GDP	C4-C5-N7	-2.70	106.39	110.67
69	EL	500	GDP	C4-C5-N7	-2.70	106.39	110.67
71	AM	501	GTP	N9-C8-N7	-2.70	108.40	113.40
71	IA	501	GTP	N9-C8-N7	-2.70	108.40	113.40
71	FA	501	GTP	N9-C8-N7	-2.70	108.40	113.40
71	SA	501	GTP	N9-C8-N7	-2.70	108.40	113.40
71	KF	501	GTP	N9-C8-N7	-2.70	108.40	113.40
71	FC	501	GTP	N9-C8-N7	-2.70	108.40	113.40
71	LN	501	GTP	N9-C8-N7	-2.70	108.40	113.40
71	SE	501	GTP	N9-C8-N7	-2.70	108.40	113.40
71	L	501	GTP	N9-C8-N7	-2.70	108.40	113.40
71	MA	501	GTP	N9-C8-N7	-2.69	108.40	113.40
69	P	500	GDP	C6-C5-N7	2.69	135.19	130.29
71	DB	501	GTP	N9-C8-N7	-2.69	108.41	113.40
71	TC	501	GTP	N9-C8-N7	-2.69	108.41	113.40
71	QJ	501	GTP	N9-C8-N7	-2.69	108.41	113.40
71	IM	501	GTP	N9-C8-N7	-2.69	108.41	113.40
71	QL	501	GTP	N9-C8-N7	-2.69	108.42	113.40
71	EG	501	GTP	N9-C8-N7	-2.69	108.42	113.40
71	OK	501	GTP	N9-C8-N7	-2.69	108.42	113.40
71	OM	501	GTP	N9-C8-N7	-2.69	108.42	113.40
71	UA	501	GTP	N9-C8-N7	-2.69	108.42	113.40
71	IK	501	GTP	C8-N7-C5	2.69	109.05	104.26
71	VM	501	GTP	N9-C8-N7	-2.69	108.42	113.40
71	PE	501	GTP	N9-C8-N7	-2.68	108.42	113.40
69	DM	500	GDP	C4-C5-N7	-2.68	106.42	110.67
71	OG	501	GTP	N9-C8-N7	-2.68	108.42	113.40
69	CK	500	GDP	C4-C5-N7	-2.68	106.42	110.67
71	GK	501	GTP	N9-C8-N7	-2.68	108.43	113.40
71	UG	501	GTP	N9-C8-N7	-2.68	108.43	113.40
71	HM	501	GTP	N9-C8-N7	-2.68	108.43	113.40
71	TA	501	GTP	N9-C8-N7	-2.68	108.43	113.40
71	PG	501	GTP	N9-C8-N7	-2.68	108.43	113.40
71	WG	501	GTP	N9-C8-N7	-2.68	108.43	113.40
71	LJ	501	GTP	N9-C8-N7	-2.68	108.43	113.40
71	RL	501	GTP	N9-C8-N7	-2.68	108.43	113.40
71	VK	501	GTP	N9-C8-N7	-2.68	108.43	113.40
71	NK	501	GTP	N9-C8-N7	-2.68	108.44	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
71	RJ	501	GTP	N9-C8-N7	-2.68	108.44	113.40
71	C	501	GTP	N9-C8-N7	-2.68	108.44	113.40
71	VC	501	GTP	N9-C8-N7	-2.68	108.44	113.40
71	NM	501	GTP	N9-C8-N7	-2.68	108.44	113.40
71	SC	501	GTP	N9-C8-N7	-2.67	108.44	113.40
71	MG	501	GTP	N9-C8-N7	-2.67	108.44	113.40
71	JN	501	GTP	N9-C8-N7	-2.67	108.44	113.40
71	PC	501	GTP	N9-C8-N7	-2.67	108.44	113.40
71	HA	501	GTP	N9-C8-N7	-2.67	108.45	113.40
71	QD	501	GTP	N9-C8-N7	-2.67	108.45	113.40
71	MM	501	GTP	N9-C8-N7	-2.67	108.45	113.40
71	NC	501	GTP	N9-C8-N7	-2.67	108.45	113.40
71	QH	501	GTP	N9-C8-N7	-2.67	108.45	113.40
71	NA	501	GTP	N9-C8-N7	-2.67	108.45	113.40
71	JB	501	GTP	N9-C8-N7	-2.67	108.45	113.40
71	IE	501	GTP	N9-C8-N7	-2.67	108.46	113.40
71	AE	501	GTP	N9-C8-N7	-2.67	108.46	113.40
71	BA	501	GTP	N9-C8-N7	-2.67	108.46	113.40
71	QB	501	GTP	N9-C8-N7	-2.67	108.46	113.40
71	JJ	501	GTP	N9-C8-N7	-2.66	108.46	113.40
71	LF	501	GTP	N9-C8-N7	-2.66	108.46	113.40
71	BC	501	GTP	N9-C8-N7	-2.66	108.46	113.40
71	KN	501	GTP	N9-C8-N7	-2.66	108.46	113.40
71	WC	501	GTP	N9-C8-N7	-2.66	108.46	113.40
71	SG	501	GTP	N9-C8-N7	-2.66	108.47	113.40
69	S	500	GDP	C4-C5-N7	-2.66	106.45	110.67
71	GG	501	GTP	N9-C8-N7	-2.66	108.47	113.40
69	AB	500	GDP	C4-C5-N7	-2.66	106.45	110.67
71	DF	501	GTP	N9-C8-N7	-2.66	108.47	113.40
71	VA	501	GTP	N9-C8-N7	-2.66	108.47	113.40
71	JH	501	GTP	N9-C8-N7	-2.66	108.48	113.40
71	OI	501	GTP	N9-C8-N7	-2.66	108.48	113.40
69	TD	500	GDP	C4-C5-N7	-2.65	106.47	110.67
71	GE	501	GTP	N9-C8-N7	-2.65	108.48	113.40
71	EC	501	GTP	N9-C8-N7	-2.65	108.48	113.40
71	CJ	501	GTP	N9-C8-N7	-2.65	108.48	113.40
69	UL	500	GDP	C4-C5-N7	-2.65	106.47	110.67
69	TL	500	GDP	C4-C5-N7	-2.65	106.47	110.67
71	DL	501	GTP	N9-C8-N7	-2.65	108.49	113.40
71	WK	501	GTP	N9-C8-N7	-2.65	108.49	113.40
71	DH	501	GTP	N9-C8-N7	-2.65	108.49	113.40
69	DA	500	GDP	C4-C5-N7	-2.65	106.48	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
71	BM	501	GTP	N9-C8-N7	-2.65	108.50	113.40
71	EI	501	GTP	N9-C8-N7	-2.65	108.50	113.40
69	IL	500	GDP	C3'-C2'-C1'	2.64	106.47	101.46
71	AC	501	GTP	N9-C8-N7	-2.64	108.50	113.40
69	NL	500	GDP	C4-C5-N7	-2.64	106.48	110.67
71	RH	501	GTP	N9-C8-N7	-2.64	108.50	113.40
71	FG	501	GTP	N9-C8-N7	-2.64	108.50	113.40
71	JF	501	GTP	N9-C8-N7	-2.64	108.50	113.40
69	JM	500	GDP	C4-C5-N7	-2.64	106.49	110.67
71	FI	501	GTP	N9-C8-N7	-2.64	108.51	113.40
71	CF	501	GTP	N9-C8-N7	-2.64	108.51	113.40
71	WM	501	GTP	N9-C8-N7	-2.64	108.51	113.40
69	T	500	GDP	C4-C5-N7	-2.63	106.50	110.67
71	QF	501	GTP	N9-C8-N7	-2.63	108.52	113.40
71	SK	501	GTP	N9-C8-N7	-2.63	108.52	113.40
71	PA	501	GTP	O6-C6-C5	-2.63	119.58	126.53
71	NE	501	GTP	N9-C8-N7	-2.63	108.52	113.40
71	NG	501	GTP	N9-C8-N7	-2.63	108.52	113.40
69	CC	500	GDP	C4-C5-N7	-2.63	106.50	110.67
71	OE	501	GTP	N9-C8-N7	-2.63	108.52	113.40
71	MC	501	GTP	N9-C8-N7	-2.63	108.53	113.40
71	IK	501	GTP	O2A-PA-O5'	2.63	119.48	107.57
69	KM	500	GDP	C4-C5-N7	-2.63	106.51	110.67
69	QK	500	GDP	C4-C5-N7	-2.63	106.51	110.67
71	KJ	501	GTP	N9-C8-N7	-2.63	108.53	113.40
71	GA	501	GTP	N9-C8-N7	-2.63	108.53	113.40
69	VH	500	GDP	C4-C5-N7	-2.63	106.51	110.67
71	K	501	GTP	N9-C8-N7	-2.62	108.53	113.40
71	VG	501	GTP	N9-C8-N7	-2.62	108.54	113.40
71	HC	501	GTP	N9-C8-N7	-2.62	108.54	113.40
71	AG	501	GTP	N9-C8-N7	-2.62	108.54	113.40
69	KA	500	GDP	C4-C5-N7	-2.62	106.52	110.67
69	UF	500	GDP	C4-C5-N7	-2.62	106.52	110.67
71	WA	501	GTP	N9-C8-N7	-2.62	108.55	113.40
69	DE	500	GDP	C4-C5-N7	-2.62	106.52	110.67
69	PJ	500	GDP	C4-C5-N7	-2.62	106.52	110.67
71	KL	501	GTP	N9-C8-N7	-2.62	108.55	113.40
71	PK	501	GTP	N9-C8-N7	-2.62	108.55	113.40
71	KB	501	GTP	N9-C8-N7	-2.62	108.55	113.40
71	MK	501	GTP	N9-C8-N7	-2.61	108.55	113.40
69	SB	500	GDP	C4-C5-N7	-2.61	106.53	110.67
71	IA	501	GTP	C5-C6-N1	2.61	119.90	113.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	DC	500	GDP	C4-C5-N7	-2.61	106.53	110.67
69	GF	500	GDP	C4-C5-N7	-2.61	106.53	110.67
71	II	501	GTP	N9-C8-N7	-2.61	108.56	113.40
71	HG	501	GTP	N9-C8-N7	-2.61	108.56	113.40
69	BB	500	GDP	C4-C5-N7	-2.61	106.53	110.67
69	HB	500	GDP	C4-C5-N7	-2.61	106.53	110.67
71	IK	501	GTP	C2-N1-C6	-2.61	120.38	125.11
71	GI	501	GTP	N9-C8-N7	-2.61	108.56	113.40
69	NJ	500	GDP	C4-C5-N7	-2.61	106.54	110.67
69	V	500	GDP	C4-C5-N7	-2.61	106.54	110.67
71	VI	501	GTP	N9-C8-N7	-2.61	108.56	113.40
69	KK	500	GDP	C4-C5-N7	-2.61	106.54	110.67
69	CG	500	GDP	C4-C5-N7	-2.61	106.54	110.67
69	OB	500	GDP	C3'-C2'-C1'	2.60	106.39	101.46
69	JI	500	GDP	C4-C5-N7	-2.60	106.55	110.67
69	PL	500	GDP	C4-C5-N7	-2.60	106.55	110.67
71	OC	501	GTP	C8-N7-C5	2.60	108.90	104.26
69	UJ	500	GDP	C4-C5-N7	-2.60	106.55	110.67
69	PF	500	GDP	C4-C5-N7	-2.60	106.55	110.67
71	WE	501	GTP	N9-C8-N7	-2.60	108.58	113.40
69	WL	500	GDP	C4-C5-N7	-2.60	106.55	110.67
71	HE	501	GTP	N9-C8-N7	-2.60	108.58	113.40
71	LH	501	GTP	N9-C8-N7	-2.60	108.58	113.40
69	G	500	GDP	C4-C5-N7	-2.60	106.55	110.67
69	JC	500	GDP	C4-C5-N7	-2.60	106.55	110.67
69	CI	500	GDP	C4-C5-N7	-2.60	106.55	110.67
71	GC	501	GTP	N9-C8-N7	-2.60	108.58	113.40
69	PD	500	GDP	C4-C5-N7	-2.60	106.56	110.67
69	TF	500	GDP	C4-C5-N7	-2.60	106.56	110.67
69	TJ	500	GDP	C4-C5-N7	-2.60	106.56	110.67
69	UB	500	GDP	C4-C5-N7	-2.60	106.56	110.67
71	LH	501	GTP	C5-C6-N1	2.60	119.86	113.25
71	PA	501	GTP	C5-C6-N1	2.59	119.86	113.25
69	WB	500	GDP	C4-C5-N7	-2.59	106.56	110.67
71	AI	501	GTP	N9-C8-N7	-2.59	108.59	113.40
69	BF	500	GDP	C4-C5-N7	-2.59	106.56	110.67
69	FL	500	GDP	C4-C5-N7	-2.59	106.56	110.67
69	SD	500	GDP	C4-C5-N7	-2.59	106.56	110.67
69	PB	500	GDP	C4-C5-N7	-2.59	106.56	110.67
71	PE	501	GTP	C8-N7-C5	2.59	108.88	104.26
71	IE	501	GTP	C5-C6-N1	2.59	119.85	113.25
71	VM	501	GTP	C5-C6-N1	2.59	119.85	113.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	VJ	500	GDP	C4-C5-N7	-2.59	106.56	110.67
71	LB	501	GTP	N9-C8-N7	-2.59	108.60	113.40
69	DK	500	GDP	C4-C5-N7	-2.59	106.57	110.67
69	IF	500	GDP	C4-C5-N7	-2.59	106.57	110.67
69	GB	500	GDP	C4-C5-N7	-2.59	106.57	110.67
71	VE	501	GTP	N9-C8-N7	-2.59	108.60	113.40
71	TG	501	GTP	N9-C8-N7	-2.59	108.60	113.40
69	LG	500	GDP	C4-C5-N7	-2.59	106.57	110.67
69	OJ	500	GDP	C4-C5-N7	-2.59	106.57	110.67
69	N	500	GDP	C4-C5-N7	-2.59	106.57	110.67
69	RE	500	GDP	C4-C5-N7	-2.59	106.57	110.67
69	OL	500	GDP	C4-C5-N7	-2.59	106.57	110.67
69	HJ	500	GDP	C4-C5-N7	-2.59	106.57	110.67
71	BG	501	GTP	N9-C8-N7	-2.58	108.61	113.40
69	EF	500	GDP	C4-C5-N7	-2.58	106.57	110.67
71	HK	501	GTP	C5-C6-N1	2.58	119.83	113.25
69	H	500	GDP	C4-C5-N7	-2.58	106.58	110.67
71	DJ	501	GTP	C8-N7-C5	2.58	108.86	104.26
71	CD	501	GTP	O3G-PG-O3B	2.58	113.30	104.64
71	JL	501	GTP	N9-C8-N7	-2.58	108.61	113.40
71	R	501	GTP	N9-C8-N7	-2.58	108.61	113.40
71	IG	501	GTP	N9-C8-N7	-2.58	108.61	113.40
71	NI	501	GTP	N9-C8-N7	-2.58	108.61	113.40
69	GL	500	GDP	C4-C5-N7	-2.58	106.58	110.67
69	TH	500	GDP	C4-C5-N7	-2.58	106.58	110.67
69	RA	500	GDP	C4-C5-N7	-2.58	106.58	110.67
71	UK	501	GTP	N9-C8-N7	-2.58	108.61	113.40
69	PH	500	GDP	C4-C5-N7	-2.58	106.58	110.67
69	VL	500	GDP	C4-C5-N7	-2.58	106.58	110.67
69	AL	500	GDP	C4-C5-N7	-2.58	106.58	110.67
69	F	500	GDP	C4-C5-N7	-2.58	106.58	110.67
69	LC	500	GDP	C4-C5-N7	-2.58	106.58	110.67
69	EJ	500	GDP	C4-C5-N7	-2.58	106.59	110.67
69	HD	500	GDP	C4-C5-N7	-2.58	106.59	110.67
71	EE	501	GTP	C8-N7-C5	2.58	108.85	104.26
71	BE	501	GTP	N9-C8-N7	-2.58	108.62	113.40
71	CH	501	GTP	N9-C8-N7	-2.58	108.62	113.40
71	TK	501	GTP	N9-C8-N7	-2.58	108.62	113.40
69	WF	500	GDP	C4-C5-N7	-2.58	106.59	110.67
69	AN	500	GDP	C4-C5-N7	-2.58	106.59	110.67
69	U	500	GDP	C4-C5-N7	-2.58	106.59	110.67
71	KN	501	GTP	C8-N7-C5	2.58	108.85	104.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	BD	500	GDP	C4-C5-N7	-2.58	106.59	110.67
69	OF	500	GDP	C4-C5-N7	-2.58	106.59	110.67
69	VB	500	GDP	C4-C5-N7	-2.58	106.59	110.67
69	DG	500	GDP	C4-C5-N7	-2.57	106.59	110.67
71	JB	501	GTP	C5-C6-N1	2.57	119.80	113.25
71	KL	501	GTP	C5-C6-N1	2.57	119.80	113.25
69	KC	500	GDP	C4-C5-N7	-2.57	106.59	110.67
69	QE	500	GDP	C4-C5-N7	-2.57	106.59	110.67
71	OK	501	GTP	C5-C6-N1	2.57	119.80	113.25
71	EA	501	GTP	C8-N7-C5	2.57	108.84	104.26
69	IJ	500	GDP	C4-C5-N7	-2.57	106.60	110.67
69	KE	500	GDP	C4-C5-N7	-2.57	106.60	110.67
69	JG	500	GDP	C4-C5-N7	-2.57	106.60	110.67
71	KD	501	GTP	C5-C6-N1	2.57	119.79	113.25
69	EH	500	GDP	C4-C5-N7	-2.57	106.60	110.67
69	VD	500	GDP	C4-C5-N7	-2.57	106.60	110.67
71	BI	501	GTP	N9-C8-N7	-2.57	108.64	113.40
71	JJ	501	GTP	C5-C6-N1	2.57	119.79	113.25
71	IC	501	GTP	O6-C6-C5	-2.57	119.75	126.53
71	JH	501	GTP	C5-C6-N1	2.57	119.79	113.25
69	JK	500	GDP	C4-C5-N7	-2.57	106.60	110.67
71	EA	501	GTP	C5-C6-N1	2.57	119.79	113.25
69	SF	500	GDP	C4-C5-N7	-2.57	106.60	110.67
71	AM	501	GTP	C8-N7-C5	2.57	108.83	104.26
71	WG	501	GTP	C5-C6-N1	2.57	119.78	113.25
71	AM	501	GTP	C5-C6-N1	2.56	119.78	113.25
69	JA	500	GDP	C4-C5-N7	-2.56	106.61	110.67
71	QH	501	GTP	C5-C6-N1	2.56	119.78	113.25
69	ML	500	GDP	C4-C5-N7	-2.56	106.61	110.67
71	SA	501	GTP	C8-N7-C5	2.56	108.83	104.26
71	UC	501	GTP	C8-N7-C5	2.56	108.83	104.26
71	UE	501	GTP	N9-C8-N7	-2.56	108.65	113.40
69	DI	500	GDP	C4-C5-N7	-2.56	106.61	110.67
69	FJ	500	GDP	C4-C5-N7	-2.56	106.61	110.67
71	BA	501	GTP	C5-C6-N1	2.56	119.77	113.25
69	BN	500	GDP	C4-C5-N7	-2.56	106.61	110.67
71	KH	501	GTP	N9-C8-N7	-2.56	108.65	113.40
69	KG	500	GDP	C4-C5-N7	-2.56	106.61	110.67
69	BJ	500	GDP	C4-C5-N7	-2.56	106.61	110.67
71	C	501	GTP	C5-C6-N1	2.56	119.77	113.25
69	NB	500	GDP	C4-C5-N7	-2.56	106.61	110.67
71	CF	501	GTP	C5-C6-N1	2.56	119.77	113.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	CE	500	GDP	C4-C5-N7	-2.56	106.62	110.67
69	GH	500	GDP	C4-C5-N7	-2.56	106.62	110.67
71	WE	501	GTP	C5-C6-N1	2.56	119.76	113.25
69	W	500	GDP	C4-C5-N7	-2.56	106.62	110.67
71	IC	501	GTP	N9-C8-N7	-2.56	108.66	113.40
71	KH	501	GTP	C5-C6-N1	2.56	119.76	113.25
71	RJ	501	GTP	C5-C6-N1	2.56	119.76	113.25
69	MB	500	GDP	C4-C5-N7	-2.56	106.62	110.67
71	VK	501	GTP	C5-C6-N1	2.56	119.76	113.25
69	FH	500	GDP	C4-C5-N7	-2.56	106.62	110.67
69	M	500	GDP	C4-C5-N7	-2.56	106.62	110.67
71	JD	501	GTP	C8-N7-C5	2.56	108.81	104.26
69	ID	500	GDP	C4-C5-N7	-2.55	106.62	110.67
71	AK	501	GTP	C5-C6-N1	2.55	119.75	113.25
71	PE	501	GTP	C5-C6-N1	2.55	119.75	113.25
71	IC	501	GTP	C5-C6-N1	2.55	119.75	113.25
69	AF	500	GDP	C4-C5-N7	-2.55	106.62	110.67
71	TE	501	GTP	N9-C8-N7	-2.55	108.67	113.40
71	NM	501	GTP	C8-N7-C5	2.55	108.81	104.26
71	SI	501	GTP	C5-C6-N1	2.55	119.75	113.25
69	AD	500	GDP	C4-C5-N7	-2.55	106.63	110.67
71	AE	501	GTP	C8-N7-C5	2.55	108.81	104.26
71	QJ	501	GTP	C5-C6-N1	2.55	119.75	113.25
71	RD	501	GTP	N9-C8-N7	-2.55	108.67	113.40
71	DJ	501	GTP	C5-C6-N1	2.55	119.75	113.25
71	II	501	GTP	C5-C6-N1	2.55	119.75	113.25
71	QL	501	GTP	C5-C6-N1	2.55	119.75	113.25
71	CF	501	GTP	C8-N7-C5	2.55	108.80	104.26
69	IL	500	GDP	C4-C5-N7	-2.55	106.63	110.67
69	KI	500	GDP	C4-C5-N7	-2.55	106.63	110.67
69	OD	500	GDP	C4-C5-N7	-2.55	106.63	110.67
71	UI	501	GTP	C8-N7-C5	2.55	108.80	104.26
71	TE	501	GTP	C5-C6-N1	2.55	119.74	113.25
69	RG	500	GDP	C4-C5-N7	-2.55	106.63	110.67
69	MF	500	GDP	C4-C5-N7	-2.55	106.63	110.67
69	MH	500	GDP	C4-C5-N7	-2.55	106.63	110.67
71	QF	501	GTP	C5-C6-N1	2.55	119.74	113.25
71	KB	501	GTP	C5-C6-N1	2.55	119.74	113.25
71	OA	501	GTP	C5-C6-N1	2.55	119.73	113.25
69	HF	500	GDP	C4-C5-N7	-2.55	106.64	110.67
71	KF	501	GTP	C5-C6-N1	2.55	119.73	113.25
71	UI	501	GTP	C5-C6-N1	2.55	119.73	113.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	BL	500	GDP	C4-C5-N7	-2.55	106.64	110.67
71	FE	501	GTP	C5-C6-N1	2.55	119.73	113.25
71	PM	501	GTP	C8-N7-C5	2.55	108.79	104.26
71	DB	501	GTP	C5-C6-N1	2.54	119.73	113.25
71	LF	501	GTP	C5-C6-N1	2.54	119.73	113.25
71	LJ	501	GTP	C5-C6-N1	2.54	119.73	113.25
71	KN	501	GTP	C5-C6-N1	2.54	119.73	113.25
69	QI	500	GDP	C4-C5-N7	-2.54	106.64	110.67
69	SJ	500	GDP	C4-C5-N7	-2.54	106.64	110.67
71	OM	501	GTP	C8-N7-C5	2.54	108.79	104.26
69	NH	500	GDP	C4-C5-N7	-2.54	106.64	110.67
69	RK	500	GDP	C4-C5-N7	-2.54	106.64	110.67
69	UH	500	GDP	C4-C5-N7	-2.54	106.64	110.67
71	OK	501	GTP	C8-N7-C5	2.54	108.79	104.26
71	OM	501	GTP	C5-C6-N1	2.54	119.72	113.25
69	A	500	GDP	C4-C5-N7	-2.54	106.64	110.67
71	HC	501	GTP	C8-N7-C5	2.54	108.79	104.26
71	BK	501	GTP	C5-C6-N1	2.54	119.72	113.25
71	CH	501	GTP	C5-C6-N1	2.54	119.72	113.25
71	IM	501	GTP	C5-C6-N1	2.54	119.72	113.25
71	UC	501	GTP	C5-C6-N1	2.54	119.72	113.25
71	KH	501	GTP	O6-C6-C5	-2.54	119.82	126.53
71	VE	501	GTP	C5-C6-N1	2.54	119.72	113.25
69	WJ	500	GDP	C4-C5-N7	-2.54	106.64	110.67
71	VI	501	GTP	C5-C6-N1	2.54	119.72	113.25
71	IM	501	GTP	C8-N7-C5	2.54	108.79	104.26
71	MA	501	GTP	C5-C6-N1	2.54	119.72	113.25
71	EK	501	GTP	C8-N7-C5	2.54	108.78	104.26
69	LK	500	GDP	C4-C5-N7	-2.54	106.64	110.67
71	Q	501	GTP	N9-C8-N7	-2.54	108.69	113.40
71	L	501	GTP	C8-N7-C5	2.54	108.78	104.26
69	WD	500	GDP	C4-C5-N7	-2.54	106.65	110.67
71	WM	501	GTP	C5-C6-N1	2.54	119.72	113.25
71	UA	501	GTP	C8-N7-C5	2.54	108.78	104.26
71	CB	501	GTP	C5-C6-N1	2.54	119.72	113.25
71	PC	501	GTP	C5-C6-N1	2.54	119.71	113.25
69	O	500	GDP	C4-C5-N7	-2.54	106.65	110.67
69	WH	500	GDP	C4-C5-N7	-2.54	106.65	110.67
71	J	501	GTP	N9-C8-N7	-2.54	108.69	113.40
71	LD	501	GTP	C8-N7-C5	2.54	108.78	104.26
71	UE	501	GTP	C5-C6-N1	2.54	119.71	113.25
71	VG	501	GTP	C5-C6-N1	2.54	119.71	113.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	ED	500	GDP	C4-C5-N7	-2.54	106.65	110.67
71	CB	501	GTP	C8-N7-C5	2.54	108.78	104.26
69	IH	500	GDP	C4-C5-N7	-2.54	106.65	110.67
69	TB	500	GDP	C4-C5-N7	-2.54	106.65	110.67
71	FK	501	GTP	C5-C6-N1	2.54	119.71	113.25
71	RJ	501	GTP	C8-N7-C5	2.54	108.78	104.26
71	CL	501	GTP	C8-N7-C5	2.54	108.78	104.26
71	JL	501	GTP	C5-C6-N1	2.54	119.71	113.25
69	SH	500	GDP	C4-C5-N7	-2.54	106.65	110.67
71	WG	501	GTP	C8-N7-C5	2.54	108.78	104.26
71	BK	501	GTP	C8-N7-C5	2.53	108.77	104.26
71	WI	501	GTP	C8-N7-C5	2.53	108.77	104.26
71	DF	501	GTP	C8-N7-C5	2.53	108.77	104.26
71	MK	501	GTP	C5-C6-N1	2.53	119.70	113.25
71	MI	501	GTP	C8-N7-C5	2.53	108.77	104.26
71	CD	501	GTP	C5-C6-N1	2.53	119.70	113.25
71	VC	501	GTP	C5-C6-N1	2.53	119.70	113.25
71	BA	501	GTP	C8-N7-C5	2.53	108.77	104.26
71	OC	501	GTP	C5-C6-N1	2.53	119.70	113.25
71	R	501	GTP	C5-C6-N1	2.53	119.70	113.25
71	OI	501	GTP	C8-N7-C5	2.53	108.77	104.26
71	EE	501	GTP	C5-C6-N1	2.53	119.69	113.25
71	EG	501	GTP	C5-C6-N1	2.53	119.69	113.25
71	GE	501	GTP	C5-C6-N1	2.53	119.69	113.25
71	SI	501	GTP	C8-N7-C5	2.53	108.77	104.26
69	LA	500	GDP	C4-C5-N7	-2.53	106.66	110.67
71	WK	501	GTP	C5-C6-N1	2.53	119.69	113.25
69	LI	500	GDP	C4-C5-N7	-2.53	106.66	110.67
69	MD	500	GDP	C4-C5-N7	-2.53	106.66	110.67
69	VF	500	GDP	C4-C5-N7	-2.53	106.66	110.67
71	SK	501	GTP	C5-C6-N1	2.53	119.69	113.25
71	IA	501	GTP	C8-N7-C5	2.53	108.77	104.26
71	JJ	501	GTP	C8-N7-C5	2.53	108.77	104.26
71	KD	501	GTP	C8-N7-C5	2.53	108.76	104.26
71	WC	501	GTP	C5-C6-N1	2.53	119.69	113.25
71	TI	501	GTP	C8-N7-C5	2.53	108.76	104.26
71	AA	501	GTP	C8-N7-C5	2.53	108.76	104.26
71	CJ	501	GTP	C8-N7-C5	2.53	108.76	104.26
71	RB	501	GTP	C5-C6-N1	2.53	119.68	113.25
71	AC	501	GTP	C5-C6-N1	2.53	119.68	113.25
71	DF	501	GTP	C5-C6-N1	2.53	119.68	113.25
71	ME	501	GTP	C8-N7-C5	2.53	108.76	104.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
71	NC	501	GTP	C8-N7-C5	2.53	108.76	104.26
71	SE	501	GTP	C8-N7-C5	2.53	108.76	104.26
71	EC	501	GTP	C5-C6-N1	2.53	119.68	113.25
71	UG	501	GTP	C5-C6-N1	2.53	119.68	113.25
69	NF	500	GDP	C4-C5-N7	-2.53	106.67	110.67
71	GI	501	GTP	C5-C6-N1	2.53	119.68	113.25
71	QB	501	GTP	C5-C6-N1	2.53	119.68	113.25
71	RF	501	GTP	C5-C6-N1	2.52	119.68	113.25
71	QJ	501	GTP	C8-N7-C5	2.52	108.76	104.26
71	PI	501	GTP	C5-C6-N1	2.52	119.68	113.25
71	RB	501	GTP	O6-C6-C5	-2.52	119.87	126.53
71	AK	501	GTP	C8-N7-C5	2.52	108.76	104.26
71	KL	501	GTP	C8-N7-C5	2.52	108.76	104.26
71	HK	501	GTP	N9-C8-N7	-2.52	108.72	113.40
71	NA	501	GTP	C5-C6-N1	2.52	119.67	113.25
71	NM	501	GTP	C5-C6-N1	2.52	119.67	113.25
71	PK	501	GTP	C5-C6-N1	2.52	119.67	113.25
71	TC	501	GTP	C5-C6-N1	2.52	119.67	113.25
71	HM	501	GTP	C8-N7-C5	2.52	108.75	104.26
71	IE	501	GTP	O6-C6-C5	-2.52	119.87	126.53
69	JE	500	GDP	C4-C5-N7	-2.52	106.67	110.67
71	FC	501	GTP	C5-C6-N1	2.52	119.67	113.25
71	JB	501	GTP	C8-N7-C5	2.52	108.75	104.26
71	BG	501	GTP	C5-C6-N1	2.52	119.67	113.25
71	DH	501	GTP	C5-C6-N1	2.52	119.67	113.25
71	QL	501	GTP	C8-N7-C5	2.52	108.75	104.26
71	QD	501	GTP	C5-C6-N1	2.52	119.67	113.25
71	JD	501	GTP	C5-C6-N1	2.52	119.67	113.25
71	D	501	GTP	C8-N7-C5	2.52	108.75	104.26
71	NG	501	GTP	C8-N7-C5	2.52	108.75	104.26
71	FG	501	GTP	C5-C6-N1	2.52	119.67	113.25
71	Q	501	GTP	C5-C6-N1	2.52	119.67	113.25
71	KJ	501	GTP	C8-N7-C5	2.52	108.75	104.26
71	SK	501	GTP	C8-N7-C5	2.52	108.75	104.26
71	HI	501	GTP	N9-C8-N7	-2.52	108.73	113.40
71	HC	501	GTP	C5-C6-N1	2.52	119.67	113.25
71	WI	501	GTP	C5-C6-N1	2.52	119.67	113.25
71	NA	501	GTP	C8-N7-C5	2.52	108.75	104.26
71	NC	501	GTP	C5-C6-N1	2.52	119.67	113.25
71	DH	501	GTP	C8-N7-C5	2.52	108.75	104.26
71	FE	501	GTP	C8-N7-C5	2.52	108.75	104.26
69	CA	500	GDP	C4-C5-N7	-2.52	106.68	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	EB	500	GDP	C4-C5-N7	-2.52	106.68	110.67
71	FK	501	GTP	O6-C6-C5	-2.52	119.88	126.53
71	EK	501	GTP	C5-C6-N1	2.52	119.67	113.25
71	JN	501	GTP	C5-C6-N1	2.52	119.67	113.25
71	NK	501	GTP	C8-N7-C5	2.52	108.75	104.26
71	CL	501	GTP	C5-C6-N1	2.52	119.66	113.25
71	AA	501	GTP	C5-C6-N1	2.52	119.66	113.25
71	L	501	GTP	C5-C6-N1	2.52	119.66	113.25
71	LN	501	GTP	C8-N7-C5	2.52	108.75	104.26
71	EI	501	GTP	C5-C6-N1	2.52	119.66	113.25
71	SE	501	GTP	C5-C6-N1	2.52	119.66	113.25
71	AI	501	GTP	C5-C6-N1	2.52	119.66	113.25
71	QB	501	GTP	C8-N7-C5	2.52	108.74	104.26
69	QC	500	GDP	C4-C5-N7	-2.52	106.68	110.67
71	BC	501	GTP	C8-N7-C5	2.52	108.74	104.26
71	RF	501	GTP	C8-N7-C5	2.52	108.74	104.26
71	OE	501	GTP	C5-C6-N1	2.52	119.66	113.25
71	TI	501	GTP	C5-C6-N1	2.52	119.66	113.25
71	CD	501	GTP	C8-N7-C5	2.52	108.74	104.26
71	OI	501	GTP	C5-C6-N1	2.52	119.66	113.25
69	QA	500	GDP	C4-C5-N7	-2.52	106.68	110.67
71	PI	501	GTP	C8-N7-C5	2.52	108.74	104.26
71	WK	501	GTP	C8-N7-C5	2.52	108.74	104.26
71	BC	501	GTP	C5-C6-N1	2.52	119.66	113.25
71	JF	501	GTP	C5-C6-N1	2.52	119.66	113.25
71	SG	501	GTP	C5-C6-N1	2.52	119.66	113.25
71	PC	501	GTP	C8-N7-C5	2.51	108.74	104.26
71	BE	501	GTP	C5-C6-N1	2.51	119.65	113.25
71	UA	501	GTP	C5-C6-N1	2.51	119.65	113.25
71	GG	501	GTP	C5-C6-N1	2.51	119.65	113.25
71	TG	501	GTP	C5-C6-N1	2.51	119.65	113.25
69	GJ	500	GDP	C4-C5-N7	-2.51	106.69	110.67
71	CJ	501	GTP	C5-C6-N1	2.51	119.65	113.25
71	J	501	GTP	C5-C6-N1	2.51	119.65	113.25
71	NI	501	GTP	C5-C6-N1	2.51	119.65	113.25
71	AC	501	GTP	C8-N7-C5	2.51	108.74	104.26
71	TC	501	GTP	C8-N7-C5	2.51	108.74	104.26
71	SC	501	GTP	C5-C6-N1	2.51	119.65	113.25
71	EI	501	GTP	C8-N7-C5	2.51	108.74	104.26
71	WC	501	GTP	C8-N7-C5	2.51	108.74	104.26
69	LM	500	GDP	C4-C5-N7	-2.51	106.69	110.67
69	OH	500	GDP	C4-C5-N7	-2.51	106.69	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
71	NE	501	GTP	C5-C6-N1	2.51	119.65	113.25
69	P	500	GDP	C3'-C2'-C1'	2.51	106.21	101.46
71	DL	501	GTP	C5-C6-N1	2.51	119.64	113.25
71	NK	501	GTP	C5-C6-N1	2.51	119.64	113.25
71	NG	501	GTP	C5-C6-N1	2.51	119.64	113.25
69	HL	500	GDP	C4-C5-N7	-2.51	106.69	110.67
71	LL	501	GTP	C8-N7-C5	2.51	108.73	104.26
71	QH	501	GTP	C8-N7-C5	2.51	108.73	104.26
71	TA	501	GTP	C8-N7-C5	2.51	108.73	104.26
71	K	501	GTP	C5-C6-N1	2.51	119.64	113.25
69	FF	500	GDP	C4-C5-N7	-2.51	106.69	110.67
71	VA	501	GTP	C5-C6-N1	2.51	119.64	113.25
71	EG	501	GTP	C8-N7-C5	2.51	108.73	104.26
71	KF	501	GTP	C8-N7-C5	2.51	108.73	104.26
71	MA	501	GTP	C8-N7-C5	2.51	108.73	104.26
71	OG	501	GTP	C5-C6-N1	2.51	119.64	113.25
71	TA	501	GTP	C5-C6-N1	2.51	119.64	113.25
71	DL	501	GTP	C8-N7-C5	2.51	108.73	104.26
71	QF	501	GTP	C8-N7-C5	2.51	108.73	104.26
69	A	500	GDP	C3'-C2'-C1'	2.51	106.21	101.46
71	MM	501	GTP	C5-C6-N1	2.51	119.64	113.25
71	PM	501	GTP	C5-C6-N1	2.51	119.64	113.25
71	SA	501	GTP	C5-C6-N1	2.51	119.64	113.25
71	WA	501	GTP	C5-C6-N1	2.51	119.64	113.25
71	RL	501	GTP	C8-N7-C5	2.51	108.73	104.26
71	VA	501	GTP	C8-N7-C5	2.51	108.73	104.26
71	LD	501	GTP	C5-C6-N1	2.51	119.64	113.25
71	VG	501	GTP	C8-N7-C5	2.51	108.73	104.26
71	LN	501	GTP	C5-C6-N1	2.51	119.64	113.25
71	RD	501	GTP	C5-C6-N1	2.51	119.64	113.25
71	MG	501	GTP	C8-N7-C5	2.51	108.73	104.26
71	OE	501	GTP	C8-N7-C5	2.51	108.73	104.26
69	FD	500	GDP	C4-C5-N7	-2.51	106.70	110.67
69	RC	500	GDP	C4-C5-N7	-2.51	106.70	110.67
71	LL	501	GTP	C5-C6-N1	2.51	119.63	113.25
71	FA	501	GTP	C8-N7-C5	2.51	108.72	104.26
71	GK	501	GTP	C8-N7-C5	2.50	108.72	104.26
71	MM	501	GTP	C8-N7-C5	2.50	108.72	104.26
71	ME	501	GTP	C5-C6-N1	2.50	119.63	113.25
71	AG	501	GTP	C8-N7-C5	2.50	108.72	104.26
71	UG	501	GTP	C8-N7-C5	2.50	108.72	104.26
71	KJ	501	GTP	C5-C6-N1	2.50	119.63	113.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
71	GK	501	GTP	C5-C6-N1	2.50	119.63	113.25
71	SC	501	GTP	C8-N7-C5	2.50	108.72	104.26
71	VC	501	GTP	C8-N7-C5	2.50	108.72	104.26
71	RH	501	GTP	C5-C6-N1	2.50	119.62	113.25
71	MK	501	GTP	O6-C6-C5	-2.50	119.92	126.53
71	DB	501	GTP	C8-N7-C5	2.50	108.72	104.26
71	FC	501	GTP	C8-N7-C5	2.50	108.72	104.26
71	HK	501	GTP	C8-N7-C5	2.50	108.72	104.26
69	HH	500	GDP	C4-C5-N7	-2.50	106.70	110.67
71	PG	501	GTP	C5-C6-N1	2.50	119.62	113.25
71	AE	501	GTP	C5-C6-N1	2.50	119.62	113.25
71	IG	501	GTP	C5-C6-N1	2.50	119.62	113.25
71	DD	501	GTP	C8-N7-C5	2.50	108.72	104.26
71	NE	501	GTP	C8-N7-C5	2.50	108.72	104.26
71	WA	501	GTP	C8-N7-C5	2.50	108.72	104.26
69	MN	500	GDP	C4-C5-N7	-2.50	106.71	110.67
71	HE	501	GTP	C5-C6-N1	2.50	119.62	113.25
71	BM	501	GTP	C8-N7-C5	2.50	108.71	104.26
71	JF	501	GTP	C8-N7-C5	2.50	108.71	104.26
71	JN	501	GTP	C8-N7-C5	2.50	108.71	104.26
69	FB	500	GDP	C4-C5-N7	-2.50	106.71	110.67
71	FA	501	GTP	C5-C6-N1	2.50	119.61	113.25
71	MG	501	GTP	C5-C6-N1	2.50	119.61	113.25
71	AG	501	GTP	C5-C6-N1	2.50	119.61	113.25
69	RI	500	GDP	C4-C5-N7	-2.50	106.71	110.67
71	MI	501	GTP	C5-C6-N1	2.50	119.61	113.25
71	GI	501	GTP	C8-N7-C5	2.50	108.71	104.26
71	JL	501	GTP	C8-N7-C5	2.50	108.70	104.26
71	PG	501	GTP	C8-N7-C5	2.50	108.70	104.26
71	VK	501	GTP	C8-N7-C5	2.50	108.70	104.26
71	DD	501	GTP	C5-C6-N1	2.49	119.60	113.25
71	HM	501	GTP	C5-C6-N1	2.49	119.60	113.25
71	FK	501	GTP	C8-N7-C5	2.49	108.70	104.26
71	RH	501	GTP	C8-N7-C5	2.49	108.70	104.26
71	II	501	GTP	C8-N7-C5	2.49	108.70	104.26
71	KB	501	GTP	C8-N7-C5	2.49	108.70	104.26
71	D	501	GTP	C5-C6-N1	2.49	119.60	113.25
69	AJ	500	GDP	C4-C5-N7	-2.49	106.72	110.67
71	LB	501	GTP	C5-C6-N1	2.49	119.60	113.25
71	HK	501	GTP	O6-C6-C5	-2.49	119.95	126.53
71	IC	501	GTP	C8-N7-C5	2.49	108.69	104.26
69	AH	500	GDP	C4-C5-N7	-2.49	106.72	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
71	K	501	GTP	C8-N7-C5	2.49	108.69	104.26
71	MC	501	GTP	C8-N7-C5	2.49	108.69	104.26
71	OA	501	GTP	C8-N7-C5	2.49	108.69	104.26
69	LO	500	GDP	C4-C5-N7	-2.49	106.73	110.67
71	BM	501	GTP	C5-C6-N1	2.49	119.59	113.25
71	BG	501	GTP	C8-N7-C5	2.49	108.69	104.26
71	FG	501	GTP	C8-N7-C5	2.49	108.69	104.26
71	GA	501	GTP	C5-C6-N1	2.49	119.58	113.25
71	OG	501	GTP	C8-N7-C5	2.49	108.69	104.26
71	VM	501	GTP	C8-N7-C5	2.49	108.69	104.26
71	QD	501	GTP	C8-N7-C5	2.48	108.69	104.26
71	WM	501	GTP	C8-N7-C5	2.48	108.69	104.26
71	FI	501	GTP	C8-N7-C5	2.48	108.69	104.26
71	PK	501	GTP	C8-N7-C5	2.48	108.69	104.26
69	CM	500	GDP	C4-C5-N7	-2.48	106.73	110.67
71	IA	501	GTP	O6-C6-C5	-2.48	119.98	126.53
71	FI	501	GTP	C5-C6-N1	2.48	119.57	113.25
71	LJ	501	GTP	C8-N7-C5	2.48	108.68	104.26
71	UK	501	GTP	C5-C6-N1	2.48	119.57	113.25
69	ND	500	GDP	C4-C5-N7	-2.48	106.74	110.67
69	I	500	GDP	C4-C5-N7	-2.48	106.74	110.67
71	BI	501	GTP	C5-C6-N1	2.48	119.56	113.25
71	C	501	GTP	C8-N7-C5	2.48	108.67	104.26
69	BH	500	GDP	C4-C5-N7	-2.48	106.75	110.67
71	AI	501	GTP	C8-N7-C5	2.47	108.67	104.26
71	HA	501	GTP	C8-N7-C5	2.47	108.67	104.26
71	JH	501	GTP	O6-C6-C5	-2.47	120.00	126.53
71	CH	501	GTP	C8-N7-C5	2.47	108.67	104.26
69	GD	500	GDP	C4-C5-N7	-2.47	106.75	110.67
71	GG	501	GTP	C8-N7-C5	2.47	108.67	104.26
71	WE	501	GTP	C8-N7-C5	2.47	108.67	104.26
71	HG	501	GTP	C5-C6-N1	2.47	119.55	113.25
71	SG	501	GTP	C8-N7-C5	2.47	108.66	104.26
71	TG	501	GTP	C8-N7-C5	2.47	108.66	104.26
71	VE	501	GTP	C8-N7-C5	2.47	108.66	104.26
71	QH	501	GTP	O6-C6-C5	-2.47	120.01	126.53
71	MC	501	GTP	C5-C6-N1	2.47	119.55	113.25
71	IG	501	GTP	C8-N7-C5	2.47	108.66	104.26
71	LH	501	GTP	O6-C6-C5	-2.47	120.01	126.53
71	GE	501	GTP	C8-N7-C5	2.47	108.66	104.26
71	J	501	GTP	C8-N7-C5	2.47	108.66	104.26
71	RL	501	GTP	C5-C6-N1	2.47	119.54	113.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
71	EC	501	GTP	C8-N7-C5	2.47	108.66	104.26
69	IB	500	GDP	C4-C5-N7	-2.47	106.76	110.67
71	UK	501	GTP	C8-N7-C5	2.47	108.66	104.26
69	LE	500	GDP	C4-C5-N7	-2.47	106.76	110.67
71	JH	501	GTP	C8-N7-C5	2.47	108.66	104.26
71	RB	501	GTP	C8-N7-C5	2.47	108.66	104.26
71	WE	501	GTP	O6-C6-C5	-2.47	120.02	126.53
71	RD	501	GTP	O6-C6-C5	-2.47	120.02	126.53
71	BE	501	GTP	C8-N7-C5	2.47	108.65	104.26
71	Q	501	GTP	C8-N7-C5	2.47	108.65	104.26
71	LB	501	GTP	C8-N7-C5	2.46	108.65	104.26
69	QG	500	GDP	C4-C5-N7	-2.46	106.77	110.67
69	UD	500	GDP	C4-C5-N7	-2.46	106.77	110.67
71	R	501	GTP	C8-N7-C5	2.46	108.65	104.26
71	LF	501	GTP	C8-N7-C5	2.46	108.65	104.26
71	VI	501	GTP	C8-N7-C5	2.46	108.65	104.26
71	TE	501	GTP	C8-N7-C5	2.46	108.65	104.26
71	TK	501	GTP	C8-N7-C5	2.46	108.65	104.26
71	TG	501	GTP	O6-C6-C5	-2.46	120.03	126.53
71	RF	501	GTP	O6-C6-C5	-2.46	120.04	126.53
71	IM	501	GTP	O6-C6-C5	-2.46	120.04	126.53
71	WM	501	GTP	O6-C6-C5	-2.46	120.04	126.53
71	NI	501	GTP	C8-N7-C5	2.46	108.64	104.26
71	TK	501	GTP	C5-C6-N1	2.46	119.51	113.25
71	HG	501	GTP	C8-N7-C5	2.46	108.64	104.26
71	PA	501	GTP	C8-N7-C5	2.46	108.63	104.26
71	FE	501	GTP	O6-C6-C5	-2.45	120.05	126.53
71	GA	501	GTP	C8-N7-C5	2.45	108.63	104.26
71	GC	501	GTP	C5-C6-N1	2.45	119.49	113.25
71	HI	501	GTP	C5-C6-N1	2.45	119.49	113.25
71	MK	501	GTP	C8-N7-C5	2.45	108.63	104.26
71	OE	501	GTP	O6-C6-C5	-2.45	120.07	126.53
71	SG	501	GTP	O6-C6-C5	-2.45	120.07	126.53
71	KH	501	GTP	C8-N7-C5	2.45	108.62	104.26
71	GC	501	GTP	C8-N7-C5	2.45	108.62	104.26
71	UE	501	GTP	C8-N7-C5	2.45	108.62	104.26
71	LB	501	GTP	O6-C6-C5	-2.45	120.08	126.53
71	LH	501	GTP	C8-N7-C5	2.45	108.62	104.26
71	GG	501	GTP	O6-C6-C5	-2.45	120.08	126.53
71	K	501	GTP	O6-C6-C5	-2.45	120.08	126.53
71	HE	501	GTP	C8-N7-C5	2.45	108.62	104.26
71	SC	501	GTP	O6-C6-C5	-2.44	120.08	126.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
71	R	501	GTP	O6-C6-C5	-2.44	120.08	126.53
71	BI	501	GTP	C8-N7-C5	2.44	108.61	104.26
71	WE	501	GTP	O3G-PG-O3B	2.44	112.83	104.64
71	HA	501	GTP	C5-C6-N1	2.44	119.47	113.25
69	P	500	GDP	O6-C6-C5	-2.44	120.09	126.53
69	CM	500	GDP	C2'-C1'-N9	-2.44	106.45	113.25
71	C	501	GTP	O6-C6-C5	-2.44	120.09	126.53
71	VE	501	GTP	O6-C6-C5	-2.44	120.09	126.53
71	EC	501	GTP	O6-C6-C5	-2.44	120.09	126.53
71	FC	501	GTP	O6-C6-C5	-2.44	120.09	126.53
71	DF	501	GTP	O6-C6-C5	-2.44	120.09	126.53
71	PK	501	GTP	O6-C6-C5	-2.44	120.10	126.53
71	GI	501	GTP	O6-C6-C5	-2.44	120.10	126.53
71	JF	501	GTP	O6-C6-C5	-2.44	120.10	126.53
71	GE	501	GTP	O6-C6-C5	-2.44	120.10	126.53
71	KB	501	GTP	O6-C6-C5	-2.44	120.10	126.53
71	II	501	GTP	O6-C6-C5	-2.43	120.11	126.53
71	WA	501	GTP	O6-C6-C5	-2.43	120.11	126.53
69	GD	500	GDP	C3'-C2'-C1'	2.43	106.07	101.46
71	EA	501	GTP	O6-C6-C5	-2.43	120.11	126.53
71	TE	501	GTP	O6-C6-C5	-2.43	120.11	126.53
71	FG	501	GTP	O6-C6-C5	-2.43	120.11	126.53
71	NG	501	GTP	O6-C6-C5	-2.43	120.11	126.53
71	GA	501	GTP	O6-C6-C5	-2.43	120.11	126.53
71	HE	501	GTP	O6-C6-C5	-2.43	120.11	126.53
69	OB	500	GDP	C4-C5-N7	-2.43	106.82	110.67
69	BL	500	GDP	C3'-C2'-C1'	2.43	106.06	101.46
71	EG	501	GTP	O6-C6-C5	-2.43	120.12	126.53
71	GC	501	GTP	O6-C6-C5	-2.43	120.12	126.53
71	TC	501	GTP	O6-C6-C5	-2.43	120.12	126.53
71	HG	501	GTP	O6-C6-C5	-2.43	120.12	126.53
71	VC	501	GTP	O6-C6-C5	-2.43	120.12	126.53
71	UI	501	GTP	O6-C6-C5	-2.43	120.12	126.53
71	AE	501	GTP	O6-C6-C5	-2.43	120.13	126.53
71	NE	501	GTP	O6-C6-C5	-2.43	120.13	126.53
71	AC	501	GTP	O6-C6-C5	-2.43	120.13	126.53
71	J	501	GTP	O6-C6-C5	-2.43	120.13	126.53
71	RH	501	GTP	O6-C6-C5	-2.43	120.13	126.53
71	AI	501	GTP	O6-C6-C5	-2.43	120.13	126.53
71	PI	501	GTP	O6-C6-C5	-2.42	120.13	126.53
71	KJ	501	GTP	O6-C6-C5	-2.42	120.14	126.53
71	Q	501	GTP	O6-C6-C5	-2.42	120.14	126.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
71	IG	501	GTP	O6-C6-C5	-2.42	120.14	126.53
71	NK	501	GTP	O6-C6-C5	-2.42	120.14	126.53
71	UG	501	GTP	O6-C6-C5	-2.42	120.14	126.53
71	DJ	501	GTP	O6-C6-C5	-2.42	120.15	126.53
71	FI	501	GTP	O6-C6-C5	-2.42	120.15	126.53
71	LN	501	GTP	O6-C6-C5	-2.42	120.15	126.53
71	WC	501	GTP	O6-C6-C5	-2.42	120.15	126.53
71	CL	501	GTP	O6-C6-C5	-2.42	120.15	126.53
71	LL	501	GTP	O6-C6-C5	-2.42	120.15	126.53
71	QB	501	GTP	O6-C6-C5	-2.42	120.15	126.53
71	BI	501	GTP	O6-C6-C5	-2.42	120.15	126.53
71	GK	501	GTP	O6-C6-C5	-2.42	120.15	126.53
71	OG	501	GTP	O6-C6-C5	-2.42	120.15	126.53
71	TA	501	GTP	O6-C6-C5	-2.42	120.15	126.53
71	EI	501	GTP	O6-C6-C5	-2.42	120.15	126.53
71	BC	501	GTP	O6-C6-C5	-2.42	120.16	126.53
71	KF	501	GTP	O6-C6-C5	-2.42	120.16	126.53
71	BA	501	GTP	O6-C6-C5	-2.41	120.16	126.53
71	MC	501	GTP	O6-C6-C5	-2.41	120.16	126.53
71	MM	501	GTP	O6-C6-C5	-2.41	120.16	126.53
71	NI	501	GTP	O6-C6-C5	-2.41	120.16	126.53
71	BE	501	GTP	O6-C6-C5	-2.41	120.16	126.53
71	MA	501	GTP	O6-C6-C5	-2.41	120.17	126.53
71	QD	501	GTP	O6-C6-C5	-2.41	120.17	126.53
71	HM	501	GTP	O6-C6-C5	-2.41	120.17	126.53
71	HI	501	GTP	O6-C6-C5	-2.41	120.17	126.53
71	PG	501	GTP	O6-C6-C5	-2.41	120.17	126.53
69	G	500	GDP	C3'-C2'-C1'	2.41	106.02	101.46
71	AG	501	GTP	O6-C6-C5	-2.41	120.17	126.53
71	CJ	501	GTP	O6-C6-C5	-2.41	120.17	126.53
71	MG	501	GTP	O6-C6-C5	-2.41	120.17	126.53
71	QL	501	GTP	O6-C6-C5	-2.41	120.17	126.53
71	SA	501	GTP	O6-C6-C5	-2.41	120.17	126.53
71	OC	501	GTP	O6-C6-C5	-2.41	120.17	126.53
71	OK	501	GTP	O6-C6-C5	-2.41	120.17	126.53
71	IE	501	GTP	C8-N7-C5	2.41	108.55	104.26
71	DD	501	GTP	O6-C6-C5	-2.41	120.18	126.53
71	LF	501	GTP	O6-C6-C5	-2.41	120.18	126.53
71	ME	501	GTP	O6-C6-C5	-2.41	120.18	126.53
71	AA	501	GTP	O6-C6-C5	-2.41	120.18	126.53
71	MI	501	GTP	O6-C6-C5	-2.41	120.18	126.53
71	NA	501	GTP	O6-C6-C5	-2.41	120.18	126.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
71	FA	501	GTP	O6-C6-C5	-2.40	120.18	126.53
71	SK	501	GTP	O6-C6-C5	-2.40	120.19	126.53
71	UC	501	GTP	O6-C6-C5	-2.40	120.19	126.53
69	WD	500	GDP	C3'-C2'-C1'	2.40	106.01	101.46
71	BG	501	GTP	O6-C6-C5	-2.40	120.19	126.53
71	LD	501	GTP	O6-C6-C5	-2.40	120.19	126.53
71	TI	501	GTP	O6-C6-C5	-2.40	120.19	126.53
71	HI	501	GTP	C8-N7-C5	2.40	108.54	104.26
71	UE	501	GTP	O6-C6-C5	-2.40	120.20	126.53
71	DH	501	GTP	O6-C6-C5	-2.40	120.20	126.53
71	EE	501	GTP	O6-C6-C5	-2.40	120.20	126.53
71	VI	501	GTP	O6-C6-C5	-2.40	120.20	126.53
71	VA	501	GTP	O6-C6-C5	-2.40	120.20	126.53
69	F	500	GDP	C3'-C2'-C1'	2.40	106.00	101.46
71	NC	501	GTP	O6-C6-C5	-2.40	120.20	126.53
71	SE	501	GTP	O6-C6-C5	-2.40	120.20	126.53
71	RD	501	GTP	C8-N7-C5	2.40	108.53	104.26
71	L	501	GTP	O6-C6-C5	-2.40	120.21	126.53
69	MJ	500	GDP	C4-C5-N7	-2.40	106.87	110.67
71	JN	501	GTP	O6-C6-C5	-2.39	120.21	126.53
71	PM	501	GTP	O6-C6-C5	-2.39	120.22	126.53
69	RE	500	GDP	C3'-C2'-C1'	2.39	105.99	101.46
71	QF	501	GTP	O6-C6-C5	-2.39	120.22	126.53
71	PC	501	GTP	O6-C6-C5	-2.39	120.22	126.53
71	BK	501	GTP	O6-C6-C5	-2.39	120.22	126.53
71	CD	501	GTP	O6-C6-C5	-2.39	120.22	126.53
71	OI	501	GTP	O6-C6-C5	-2.39	120.22	126.53
71	WK	501	GTP	O6-C6-C5	-2.39	120.22	126.53
71	D	501	GTP	O6-C6-C5	-2.39	120.23	126.53
71	VG	501	GTP	O6-C6-C5	-2.39	120.23	126.53
71	DB	501	GTP	O6-C6-C5	-2.39	120.23	126.53
71	BM	501	GTP	O6-C6-C5	-2.39	120.23	126.53
71	CH	501	GTP	O3G-PG-O3B	2.39	112.64	104.64
71	HC	501	GTP	O6-C6-C5	-2.38	120.24	126.53
71	DL	501	GTP	O6-C6-C5	-2.38	120.24	126.53
71	HA	501	GTP	O6-C6-C5	-2.38	120.24	126.53
71	CB	501	GTP	O6-C6-C5	-2.38	120.24	126.53
71	KN	501	GTP	O6-C6-C5	-2.38	120.25	126.53
71	CH	501	GTP	O6-C6-C5	-2.38	120.25	126.53
71	TK	501	GTP	O6-C6-C5	-2.38	120.25	126.53
71	OA	501	GTP	O6-C6-C5	-2.38	120.25	126.53
71	KD	501	GTP	O6-C6-C5	-2.38	120.26	126.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
71	SI	501	GTP	O6-C6-C5	-2.38	120.26	126.53
71	KL	501	GTP	O6-C6-C5	-2.38	120.26	126.53
71	VK	501	GTP	O6-C6-C5	-2.38	120.26	126.53
69	V	500	GDP	C3'-C2'-C1'	2.37	105.95	101.46
71	NM	501	GTP	O6-C6-C5	-2.37	120.27	126.53
71	WG	501	GTP	O6-C6-C5	-2.37	120.27	126.53
71	PE	501	GTP	O6-C6-C5	-2.37	120.27	126.53
71	OM	501	GTP	O6-C6-C5	-2.37	120.27	126.53
71	AK	501	GTP	O6-C6-C5	-2.37	120.27	126.53
71	UK	501	GTP	O6-C6-C5	-2.37	120.27	126.53
71	EK	501	GTP	O6-C6-C5	-2.37	120.28	126.53
71	UA	501	GTP	O6-C6-C5	-2.37	120.28	126.53
71	QH	501	GTP	O3G-PG-O3B	2.37	112.57	104.64
71	WI	501	GTP	O6-C6-C5	-2.36	120.29	126.53
69	I	500	GDP	C3'-C2'-C1'	2.36	105.93	101.46
71	JB	501	GTP	O6-C6-C5	-2.36	120.30	126.53
71	VM	501	GTP	O6-C6-C5	-2.36	120.31	126.53
71	LJ	501	GTP	O6-C6-C5	-2.36	120.31	126.53
71	RJ	501	GTP	O6-C6-C5	-2.36	120.31	126.53
69	GH	500	GDP	C3'-C2'-C1'	2.35	105.92	101.46
69	JK	500	GDP	C3'-C2'-C1'	2.35	105.92	101.46
69	GJ	500	GDP	C3'-C2'-C1'	2.35	105.91	101.46
69	P	500	GDP	C4-C5-N7	-2.35	106.94	110.67
71	EK	501	GTP	O3G-PG-O3B	2.35	112.51	104.64
69	MJ	500	GDP	C2'-C3'-C4'	2.34	107.14	102.61
69	LE	500	GDP	C3'-C2'-C1'	2.34	105.89	101.46
69	KG	500	GDP	C3'-C2'-C1'	2.34	105.89	101.46
71	JD	501	GTP	O6-C6-C5	-2.34	120.36	126.53
69	MH	500	GDP	C3'-C2'-C1'	2.34	105.88	101.46
69	W	500	GDP	C3'-C2'-C1'	2.34	105.88	101.46
71	QJ	501	GTP	O6-C6-C5	-2.34	120.36	126.53
71	CF	501	GTP	O6-C6-C5	-2.33	120.37	126.53
71	JJ	501	GTP	O6-C6-C5	-2.33	120.37	126.53
71	AM	501	GTP	O6-C6-C5	-2.33	120.37	126.53
69	U	500	GDP	C3'-C2'-C1'	2.33	105.88	101.46
71	RL	501	GTP	O6-C6-C5	-2.33	120.38	126.53
69	PL	500	GDP	C3'-C2'-C1'	2.33	105.87	101.46
69	O	500	GDP	C3'-C2'-C1'	2.33	105.87	101.46
69	CK	500	GDP	C3'-C2'-C1'	2.32	105.85	101.46
69	CM	500	GDP	C3'-C2'-C1'	2.31	105.84	101.46
69	OL	500	GDP	C3'-C2'-C1'	2.31	105.83	101.46
69	NH	500	GDP	C3'-C2'-C1'	2.31	105.83	101.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
71	EA	501	GTP	O3G-PG-O3B	2.31	112.37	104.64
69	M	500	GDP	C3'-C2'-C1'	2.30	105.82	101.46
69	TH	500	GDP	C3'-C2'-C1'	2.30	105.82	101.46
69	ML	500	GDP	C3'-C2'-C1'	2.30	105.82	101.46
71	IK	501	GTP	O2A-PA-O1A	-2.30	101.74	112.44
69	WL	500	GDP	C3'-C2'-C1'	2.29	105.80	101.46
69	UB	500	GDP	C3'-C2'-C1'	2.29	105.80	101.46
69	LM	500	GDP	C3'-C2'-C1'	2.29	105.80	101.46
69	BN	500	GDP	C3'-C2'-C1'	2.29	105.79	101.46
69	NB	500	GDP	C3'-C2'-C1'	2.29	105.79	101.46
69	VD	500	GDP	C3'-C2'-C1'	2.29	105.79	101.46
69	BF	500	GDP	C3'-C2'-C1'	2.29	105.79	101.46
71	QH	501	GTP	O2B-PB-O3A	2.29	113.45	107.27
69	HJ	500	GDP	C3'-C2'-C1'	2.28	105.78	101.46
69	HH	500	GDP	C3'-C2'-C1'	2.28	105.78	101.46
69	EH	500	GDP	C3'-C2'-C1'	2.28	105.77	101.46
69	UH	500	GDP	C3'-C2'-C1'	2.28	105.77	101.46
71	HK	501	GTP	C3'-C2'-C1'	2.28	105.77	101.46
71	JL	501	GTP	O6-C6-C5	-2.28	120.53	126.53
69	KI	500	GDP	C3'-C2'-C1'	2.28	105.77	101.46
69	FJ	500	GDP	C3'-C2'-C1'	2.27	105.76	101.46
69	JC	500	GDP	C3'-C2'-C1'	2.27	105.75	101.46
69	KM	500	GDP	C3'-C2'-C1'	2.27	105.75	101.46
69	MD	500	GDP	C3'-C2'-C1'	2.26	105.75	101.46
69	H	500	GDP	C3'-C2'-C1'	2.26	105.75	101.46
69	TD	500	GDP	C3'-C2'-C1'	2.26	105.74	101.46
69	QE	500	GDP	C3'-C2'-C1'	2.26	105.74	101.46
69	AD	500	GDP	C3'-C2'-C1'	2.26	105.74	101.46
71	D	501	GTP	O3G-PG-O3B	2.26	112.21	104.64
69	CA	500	GDP	C3'-C2'-C1'	2.26	105.73	101.46
69	EF	500	GDP	C3'-C2'-C1'	2.25	105.72	101.46
69	QI	500	GDP	C3'-C2'-C1'	2.25	105.72	101.46
69	VF	500	GDP	C3'-C2'-C1'	2.25	105.71	101.46
71	IK	501	GTP	C5-C6-N1	2.24	118.96	113.25
69	QC	500	GDP	C3'-C2'-C1'	2.24	105.70	101.46
69	EJ	500	GDP	C3'-C2'-C1'	2.23	105.69	101.46
69	HF	500	GDP	C3'-C2'-C1'	2.23	105.69	101.46
69	FF	500	GDP	C3'-C2'-C1'	2.23	105.69	101.46
69	OF	500	GDP	C3'-C2'-C1'	2.23	105.68	101.46
69	MJ	500	GDP	O6-C6-C5	-2.23	120.65	126.53
69	TL	500	GDP	C3'-C2'-C1'	2.23	105.67	101.46
69	DK	500	GDP	C3'-C2'-C1'	2.23	105.67	101.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	IJ	500	GDP	C3'-C2'-C1'	2.22	105.67	101.46
71	OK	501	GTP	C3'-C2'-C1'	2.22	105.67	101.46
69	LK	500	GDP	C3'-C2'-C1'	2.22	105.66	101.46
69	FH	500	GDP	C3'-C2'-C1'	2.22	105.66	101.46
69	T	500	GDP	C3'-C2'-C1'	2.22	105.66	101.46
69	WH	500	GDP	C3'-C2'-C1'	2.22	105.66	101.46
69	FB	500	GDP	C2'-C3'-C4'	2.22	106.90	102.61
69	DG	500	GDP	C3'-C2'-C1'	2.22	105.66	101.46
69	IB	500	GDP	C3'-C2'-C1'	2.22	105.66	101.46
71	RL	501	GTP	O3G-PG-O3B	2.21	112.05	104.64
69	JA	500	GDP	C3'-C2'-C1'	2.21	105.65	101.46
71	SG	501	GTP	O3G-PG-O3B	2.21	112.04	104.64
69	CE	500	GDP	C3'-C2'-C1'	2.21	105.64	101.46
69	JG	500	GDP	C3'-C2'-C1'	2.21	105.64	101.46
69	RK	500	GDP	C3'-C2'-C1'	2.20	105.63	101.46
69	UF	500	GDP	C3'-C2'-C1'	2.20	105.63	101.46
71	IK	501	GTP	O6-C6-C5	-2.20	120.72	126.53
69	WB	500	GDP	C3'-C2'-C1'	2.20	105.63	101.46
71	QD	501	GTP	O3G-PG-O3B	2.20	112.02	104.64
69	DC	500	GDP	C3'-C2'-C1'	2.20	105.62	101.46
69	KA	500	GDP	C3'-C2'-C1'	2.20	105.62	101.46
69	BH	500	GDP	C3'-C2'-C1'	2.20	105.62	101.46
69	IF	500	GDP	C3'-C2'-C1'	2.20	105.62	101.46
71	IE	501	GTP	C3'-C2'-C1'	2.19	105.61	101.46
71	VE	501	GTP	C3'-C2'-C1'	2.18	105.59	101.46
71	DH	501	GTP	C3'-C2'-C1'	2.18	105.59	101.46
69	VB	500	GDP	C3'-C2'-C1'	2.18	105.58	101.46
69	GL	500	GDP	C3'-C2'-C1'	2.18	105.58	101.46
71	NC	501	GTP	C3'-C2'-C1'	2.18	105.58	101.46
71	GI	501	GTP	C3'-C2'-C1'	2.17	105.58	101.46
69	JM	500	GDP	C3'-C2'-C1'	2.17	105.57	101.46
69	NJ	500	GDP	C3'-C2'-C1'	2.17	105.57	101.46
69	NF	500	GDP	C3'-C2'-C1'	2.17	105.56	101.46
71	EE	501	GTP	O3G-PG-O3B	2.17	111.90	104.64
69	CI	500	GDP	C3'-C2'-C1'	2.16	105.56	101.46
69	GB	500	GDP	C3'-C2'-C1'	2.16	105.55	101.46
69	CG	500	GDP	C3'-C2'-C1'	2.16	105.55	101.46
69	RI	500	GDP	C3'-C2'-C1'	2.16	105.55	101.46
69	FD	500	GDP	C3'-C2'-C1'	2.16	105.55	101.46
69	HD	500	GDP	C3'-C2'-C1'	2.16	105.54	101.46
69	RC	500	GDP	C3'-C2'-C1'	2.16	105.54	101.46
71	KH	501	GTP	C3'-C2'-C1'	2.15	105.54	101.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
71	JF	501	GTP	C3'-C2'-C1'	2.15	105.54	101.46
69	TB	500	GDP	C3'-C2'-C1'	2.15	105.53	101.46
69	DA	500	GDP	C3'-C2'-C1'	2.15	105.53	101.46
69	WJ	500	GDP	C3'-C2'-C1'	2.15	105.53	101.46
71	SA	501	GTP	C3'-C2'-C1'	2.15	105.53	101.46
71	VG	501	GTP	C3'-C2'-C1'	2.15	105.53	101.46
71	II	501	GTP	C3'-C2'-C1'	2.15	105.52	101.46
69	PD	500	GDP	C3'-C2'-C1'	2.14	105.51	101.46
69	N	500	GDP	C3'-C2'-C1'	2.14	105.51	101.46
69	QG	500	GDP	C3'-C2'-C1'	2.14	105.51	101.46
69	LA	500	GDP	C3'-C2'-C1'	2.14	105.51	101.46
71	WG	501	GTP	C3'-C2'-C1'	2.14	105.51	101.46
71	FE	501	GTP	C3'-C2'-C1'	2.14	105.51	101.46
69	QG	500	GDP	O6-C6-C5	-2.14	120.89	126.53
71	K	501	GTP	C3'-C2'-C1'	2.14	105.51	101.46
69	CM	500	GDP	O6-C6-C5	-2.14	120.89	126.53
69	RG	500	GDP	C3'-C2'-C1'	2.14	105.50	101.46
69	JA	500	GDP	O6-C6-C5	-2.14	120.89	126.53
69	JE	500	GDP	O6-C6-C5	-2.14	120.89	126.53
69	AF	500	GDP	O6-C6-C5	-2.13	120.90	126.53
69	GF	500	GDP	C3'-C2'-C1'	2.13	105.50	101.46
69	SH	500	GDP	O6-C6-C5	-2.13	120.91	126.53
69	HB	500	GDP	C3'-C2'-C1'	2.13	105.49	101.46
69	W	500	GDP	O6-C6-C5	-2.13	120.91	126.53
69	LI	500	GDP	C3'-C2'-C1'	2.13	105.49	101.46
71	CH	501	GTP	C3'-C2'-C1'	2.13	105.49	101.46
69	IH	500	GDP	O6-C6-C5	-2.13	120.92	126.53
71	EG	501	GTP	C3'-C2'-C1'	2.13	105.49	101.46
71	LH	501	GTP	C3'-C2'-C1'	2.13	105.49	101.46
69	AJ	500	GDP	O6-C6-C5	-2.13	120.92	126.53
71	QJ	501	GTP	C3'-C2'-C1'	2.13	105.48	101.46
69	LK	500	GDP	O6-C6-C5	-2.13	120.92	126.53
69	OB	500	GDP	O6-C6-C5	-2.12	120.92	126.53
69	CA	500	GDP	O6-C6-C5	-2.12	120.92	126.53
69	BL	500	GDP	O6-C6-C5	-2.12	120.93	126.53
71	EC	501	GTP	C3'-C2'-C1'	2.12	105.48	101.46
69	GL	500	GDP	O6-C6-C5	-2.12	120.93	126.53
69	OD	500	GDP	O6-C6-C5	-2.12	120.93	126.53
71	SE	501	GTP	O2A-PA-O3A	2.12	113.01	107.27
69	WD	500	GDP	O6-C6-C5	-2.12	120.93	126.53
69	MH	500	GDP	O6-C6-C5	-2.12	120.93	126.53
71	TA	501	GTP	O3G-PG-O3B	2.12	111.75	104.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	SF	500	GDP	C3'-C2'-C1'	2.12	105.47	101.46
69	KE	500	GDP	O6-C6-C5	-2.12	120.94	126.53
71	TA	501	GTP	C3'-C2'-C1'	2.12	105.47	101.46
69	FJ	500	GDP	O6-C6-C5	-2.12	120.94	126.53
69	NH	500	GDP	O6-C6-C5	-2.12	120.94	126.53
71	TG	501	GTP	C3'-C2'-C1'	2.12	105.47	101.46
69	S	500	GDP	C3'-C2'-C1'	2.12	105.47	101.46
69	LA	500	GDP	O6-C6-C5	-2.12	120.94	126.53
69	BN	500	GDP	O6-C6-C5	-2.12	120.95	126.53
69	DI	500	GDP	C3'-C2'-C1'	2.12	105.47	101.46
69	VF	500	GDP	O6-C6-C5	-2.12	120.95	126.53
71	AI	501	GTP	C3'-C2'-C1'	2.12	105.47	101.46
71	KL	501	GTP	C3'-C2'-C1'	2.12	105.47	101.46
69	ED	500	GDP	C3'-C2'-C1'	2.12	105.46	101.46
69	QC	500	GDP	O6-C6-C5	-2.11	120.95	126.53
69	BH	500	GDP	O6-C6-C5	-2.11	120.95	126.53
69	ND	500	GDP	C3'-C2'-C1'	2.11	105.46	101.46
69	I	500	GDP	O6-C6-C5	-2.11	120.95	126.53
69	QA	500	GDP	C3'-C2'-C1'	2.11	105.46	101.46
71	KB	501	GTP	C3'-C2'-C1'	2.11	105.46	101.46
69	SJ	500	GDP	O6-C6-C5	-2.11	120.96	126.53
69	ND	500	GDP	O6-C6-C5	-2.11	120.96	126.53
69	JE	500	GDP	C3'-C2'-C1'	2.11	105.45	101.46
69	NJ	500	GDP	O6-C6-C5	-2.11	120.97	126.53
69	UB	500	GDP	O6-C6-C5	-2.11	120.97	126.53
69	BJ	500	GDP	C3'-C2'-C1'	2.11	105.45	101.46
69	JK	500	GDP	O6-C6-C5	-2.11	120.97	126.53
69	WH	500	GDP	O6-C6-C5	-2.11	120.97	126.53
71	DL	501	GTP	O3G-PG-O3B	2.11	111.70	104.64
71	NK	501	GTP	C3'-C2'-C1'	2.11	105.45	101.46
69	GJ	500	GDP	O6-C6-C5	-2.11	120.97	126.53
69	KI	500	GDP	O6-C6-C5	-2.10	120.98	126.53
69	SJ	500	GDP	C3'-C2'-C1'	2.10	105.44	101.46
71	AC	501	GTP	C3'-C2'-C1'	2.10	105.44	101.46
71	AG	501	GTP	C3'-C2'-C1'	2.10	105.44	101.46
71	VA	501	GTP	C3'-C2'-C1'	2.10	105.44	101.46
69	IJ	500	GDP	O6-C6-C5	-2.10	120.98	126.53
69	SB	500	GDP	O6-C6-C5	-2.10	120.98	126.53
69	M	500	GDP	O6-C6-C5	-2.10	120.98	126.53
69	WF	500	GDP	O6-C6-C5	-2.10	120.98	126.53
69	BN	500	GDP	C2'-C3'-C4'	2.10	106.67	102.61
71	OI	501	GTP	C3'-C2'-C1'	2.10	105.44	101.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	TF	500	GDP	O6-C6-C5	-2.10	120.98	126.53
69	IH	500	GDP	C3'-C2'-C1'	2.10	105.44	101.46
71	NI	501	GTP	C3'-C2'-C1'	2.10	105.44	101.46
69	JI	500	GDP	O6-C6-C5	-2.10	120.99	126.53
69	GB	500	GDP	O6-C6-C5	-2.10	120.99	126.53
69	WL	500	GDP	O6-C6-C5	-2.10	120.99	126.53
69	TJ	500	GDP	O6-C6-C5	-2.10	120.99	126.53
71	HI	501	GTP	C3'-C2'-C1'	2.10	105.43	101.46
71	WM	501	GTP	C3'-C2'-C1'	2.10	105.43	101.46
71	FC	501	GTP	C3'-C2'-C1'	2.10	105.43	101.46
69	MN	500	GDP	O6-C6-C5	-2.10	120.99	126.53
69	DA	500	GDP	O6-C6-C5	-2.10	120.99	126.53
69	FL	500	GDP	O6-C6-C5	-2.10	120.99	126.53
69	KM	500	GDP	O6-C6-C5	-2.10	121.00	126.53
69	VH	500	GDP	C3'-C2'-C1'	2.10	105.43	101.46
69	KE	500	GDP	C3'-C2'-C1'	2.10	105.43	101.46
69	T	500	GDP	O6-C6-C5	-2.10	121.00	126.53
69	FH	500	GDP	O6-C6-C5	-2.10	121.00	126.53
71	VI	501	GTP	C3'-C2'-C1'	2.10	105.43	101.46
69	PD	500	GDP	O6-C6-C5	-2.10	121.00	126.53
71	GE	501	GTP	C3'-C2'-C1'	2.10	105.43	101.46
69	GH	500	GDP	O6-C6-C5	-2.10	121.00	126.53
69	OJ	500	GDP	O6-C6-C5	-2.10	121.00	126.53
69	CM	500	GDP	O4'-C1'-N9	2.10	113.11	108.36
69	EJ	500	GDP	O6-C6-C5	-2.10	121.00	126.53
69	WB	500	GDP	O6-C6-C5	-2.10	121.00	126.53
69	IL	500	GDP	O6-C6-C5	-2.09	121.00	126.53
69	RE	500	GDP	O6-C6-C5	-2.09	121.00	126.53
69	S	500	GDP	O6-C6-C5	-2.09	121.00	126.53
69	UF	500	GDP	O6-C6-C5	-2.09	121.00	126.53
69	PB	500	GDP	C3'-C2'-C1'	2.09	105.42	101.46
71	KF	501	GTP	C3'-C2'-C1'	2.09	105.42	101.46
71	ME	501	GTP	C3'-C2'-C1'	2.09	105.42	101.46
69	FD	500	GDP	O6-C6-C5	-2.09	121.01	126.53
69	IF	500	GDP	O6-C6-C5	-2.09	121.01	126.53
69	ML	500	GDP	O6-C6-C5	-2.09	121.01	126.53
71	HC	501	GTP	C3'-C2'-C1'	2.09	105.42	101.46
69	A	500	GDP	O6-C6-C5	-2.09	121.01	126.53
69	ED	500	GDP	O6-C6-C5	-2.09	121.01	126.53
69	LI	500	GDP	O6-C6-C5	-2.09	121.01	126.53
69	DK	500	GDP	O6-C6-C5	-2.09	121.01	126.53
69	F	500	GDP	O6-C6-C5	-2.09	121.01	126.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	CK	500	GDP	O6-C6-C5	-2.09	121.01	126.53
69	FF	500	GDP	O6-C6-C5	-2.09	121.01	126.53
69	DG	500	GDP	O6-C6-C5	-2.09	121.02	126.53
69	MD	500	GDP	O6-C6-C5	-2.09	121.02	126.53
69	QE	500	GDP	O6-C6-C5	-2.09	121.02	126.53
71	WA	501	GTP	C3'-C2'-C1'	2.09	105.42	101.46
69	U	500	GDP	O6-C6-C5	-2.09	121.02	126.53
71	BE	501	GTP	C3'-C2'-C1'	2.09	105.42	101.46
71	VM	501	GTP	C3'-C2'-C1'	2.09	105.42	101.46
69	VD	500	GDP	O6-C6-C5	-2.09	121.02	126.53
69	BB	500	GDP	O6-C6-C5	-2.09	121.02	126.53
69	OF	500	GDP	O6-C6-C5	-2.09	121.02	126.53
69	SD	500	GDP	O6-C6-C5	-2.09	121.02	126.53
69	UD	500	GDP	C3'-C2'-C1'	2.09	105.41	101.46
71	UA	501	GTP	C3'-C2'-C1'	2.09	105.41	101.46
69	CI	500	GDP	O6-C6-C5	-2.09	121.02	126.53
69	UH	500	GDP	O6-C6-C5	-2.09	121.02	126.53
69	TB	500	GDP	O6-C6-C5	-2.09	121.02	126.53
71	OE	501	GTP	C3'-C2'-C1'	2.09	105.41	101.46
69	QI	500	GDP	O6-C6-C5	-2.09	121.02	126.53
69	NF	500	GDP	O6-C6-C5	-2.09	121.03	126.53
69	AJ	500	GDP	C3'-C2'-C1'	2.09	105.41	101.46
69	OD	500	GDP	C3'-C2'-C1'	2.09	105.41	101.46
69	ID	500	GDP	O6-C6-C5	-2.08	121.03	126.53
69	OJ	500	GDP	C3'-C2'-C1'	2.08	105.41	101.46
71	IC	501	GTP	C3'-C2'-C1'	2.08	105.41	101.46
69	QK	500	GDP	O6-C6-C5	-2.08	121.03	126.53
69	HL	500	GDP	C3'-C2'-C1'	2.08	105.41	101.46
71	DJ	501	GTP	C3'-C2'-C1'	2.08	105.41	101.46
69	AN	500	GDP	O6-C6-C5	-2.08	121.03	126.53
69	BJ	500	GDP	O6-C6-C5	-2.08	121.03	126.53
69	H	500	GDP	O6-C6-C5	-2.08	121.03	126.53
71	BG	501	GTP	C3'-C2'-C1'	2.08	105.40	101.46
71	NG	501	GTP	C3'-C2'-C1'	2.08	105.40	101.46
69	VJ	500	GDP	C3'-C2'-C1'	2.08	105.40	101.46
71	BC	501	GTP	C3'-C2'-C1'	2.08	105.40	101.46
71	QF	501	GTP	C3'-C2'-C1'	2.08	105.40	101.46
71	FA	501	GTP	C3'-C2'-C1'	2.08	105.40	101.46
71	HM	501	GTP	C3'-C2'-C1'	2.08	105.40	101.46
69	NB	500	GDP	O6-C6-C5	-2.08	121.04	126.53
69	KA	500	GDP	O6-C6-C5	-2.08	121.04	126.53
69	KG	500	GDP	O6-C6-C5	-2.08	121.04	126.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	HJ	500	GDP	O6-C6-C5	-2.08	121.04	126.53
71	MG	501	GTP	C3'-C2'-C1'	2.08	105.39	101.46
71	JH	501	GTP	C3'-C2'-C1'	2.08	105.39	101.46
69	AD	500	GDP	O6-C6-C5	-2.08	121.05	126.53
71	SG	501	GTP	C3'-C2'-C1'	2.08	105.39	101.46
69	GD	500	GDP	O6-C6-C5	-2.08	121.05	126.53
69	IB	500	GDP	O6-C6-C5	-2.08	121.05	126.53
69	TD	500	GDP	O6-C6-C5	-2.08	121.05	126.53
71	FI	501	GTP	C3'-C2'-C1'	2.08	105.39	101.46
69	TL	500	GDP	O6-C6-C5	-2.08	121.05	126.53
69	SH	500	GDP	C3'-C2'-C1'	2.08	105.39	101.46
71	UE	501	GTP	C3'-C2'-C1'	2.08	105.39	101.46
69	AL	500	GDP	O6-C6-C5	-2.08	121.05	126.53
69	FB	500	GDP	O6-C6-C5	-2.08	121.06	126.53
69	OH	500	GDP	O6-C6-C5	-2.08	121.06	126.53
69	DI	500	GDP	O6-C6-C5	-2.07	121.06	126.53
69	UD	500	GDP	O6-C6-C5	-2.07	121.06	126.53
71	DF	501	GTP	C3'-C2'-C1'	2.07	105.39	101.46
71	OG	501	GTP	C3'-C2'-C1'	2.07	105.39	101.46
71	D	501	GTP	C3'-C2'-C1'	2.07	105.39	101.46
69	BF	500	GDP	O6-C6-C5	-2.07	121.06	126.53
69	EF	500	GDP	O6-C6-C5	-2.07	121.06	126.53
69	JG	500	GDP	O6-C6-C5	-2.07	121.06	126.53
69	RG	500	GDP	O6-C6-C5	-2.07	121.06	126.53
69	RK	500	GDP	O6-C6-C5	-2.07	121.06	126.53
69	MF	500	GDP	O6-C6-C5	-2.07	121.06	126.53
71	UG	501	GTP	C3'-C2'-C1'	2.07	105.38	101.46
69	HF	500	GDP	O6-C6-C5	-2.07	121.06	126.53
69	LO	500	GDP	O6-C6-C5	-2.07	121.07	126.53
69	CC	500	GDP	C3'-C2'-C1'	2.07	105.38	101.46
69	HD	500	GDP	O6-C6-C5	-2.07	121.07	126.53
69	VH	500	GDP	O6-C6-C5	-2.07	121.07	126.53
69	VB	500	GDP	O6-C6-C5	-2.07	121.07	126.53
71	GC	501	GTP	C3'-C2'-C1'	2.07	105.38	101.46
69	N	500	GDP	O6-C6-C5	-2.07	121.07	126.53
69	AL	500	GDP	C3'-C2'-C1'	2.07	105.38	101.46
69	SB	500	GDP	C3'-C2'-C1'	2.07	105.38	101.46
69	UJ	500	GDP	O6-C6-C5	-2.07	121.07	126.53
69	PJ	500	GDP	O6-C6-C5	-2.07	121.07	126.53
69	O	500	GDP	O6-C6-C5	-2.07	121.08	126.53
69	KC	500	GDP	C3'-C2'-C1'	2.07	105.37	101.46
69	SF	500	GDP	O6-C6-C5	-2.07	121.08	126.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	JC	500	GDP	O6-C6-C5	-2.07	121.08	126.53
69	VJ	500	GDP	O6-C6-C5	-2.06	121.08	126.53
69	PL	500	GDP	O6-C6-C5	-2.06	121.08	126.53
71	IG	501	GTP	C3'-C2'-C1'	2.06	105.37	101.46
69	KC	500	GDP	O6-C6-C5	-2.06	121.09	126.53
71	FK	501	GTP	C3'-C2'-C1'	2.06	105.36	101.46
69	RI	500	GDP	O6-C6-C5	-2.06	121.09	126.53
71	DF	501	GTP	O3G-PG-O3B	2.06	111.55	104.64
69	BD	500	GDP	O6-C6-C5	-2.06	121.09	126.53
69	G	500	GDP	O6-C6-C5	-2.06	121.10	126.53
69	RA	500	GDP	O6-C6-C5	-2.06	121.10	126.53
69	QA	500	GDP	O6-C6-C5	-2.06	121.10	126.53
69	PB	500	GDP	O6-C6-C5	-2.06	121.10	126.53
69	V	500	GDP	O6-C6-C5	-2.06	121.10	126.53
69	JM	500	GDP	O6-C6-C5	-2.06	121.10	126.53
69	HL	500	GDP	O6-C6-C5	-2.06	121.10	126.53
69	UL	500	GDP	O6-C6-C5	-2.06	121.10	126.53
69	AH	500	GDP	C3'-C2'-C1'	2.06	105.35	101.46
69	UJ	500	GDP	C3'-C2'-C1'	2.06	105.35	101.46
69	EH	500	GDP	O6-C6-C5	-2.06	121.10	126.53
71	HA	501	GTP	C3'-C2'-C1'	2.06	105.35	101.46
69	HB	500	GDP	O6-C6-C5	-2.06	121.11	126.53
69	LC	500	GDP	O6-C6-C5	-2.06	121.11	126.53
69	NL	500	GDP	C3'-C2'-C1'	2.06	105.35	101.46
71	QJ	501	GTP	O3G-PG-O3B	2.05	111.53	104.64
69	LE	500	GDP	O6-C6-C5	-2.05	121.11	126.53
71	LJ	501	GTP	C3'-C2'-C1'	2.05	105.35	101.46
69	WJ	500	GDP	O6-C6-C5	-2.05	121.11	126.53
71	EI	501	GTP	C3'-C2'-C1'	2.05	105.34	101.46
71	HE	501	GTP	C3'-C2'-C1'	2.05	105.34	101.46
69	DE	500	GDP	O6-C6-C5	-2.05	121.12	126.53
71	OE	501	GTP	O3G-PG-O3B	2.05	111.51	104.64
69	CE	500	GDP	O6-C6-C5	-2.05	121.12	126.53
69	AN	500	GDP	C3'-C2'-C1'	2.05	105.34	101.46
69	EB	500	GDP	O6-C6-C5	-2.05	121.12	126.53
69	KK	500	GDP	C3'-C2'-C1'	2.05	105.34	101.46
69	LG	500	GDP	O6-C6-C5	-2.05	121.12	126.53
69	TH	500	GDP	O6-C6-C5	-2.05	121.12	126.53
71	JJ	501	GTP	C3'-C2'-C1'	2.05	105.34	101.46
71	TE	501	GTP	C3'-C2'-C1'	2.05	105.34	101.46
69	RA	500	GDP	C2'-C3'-C4'	2.05	106.57	102.61
69	HH	500	GDP	O6-C6-C5	-2.05	121.13	126.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
71	JN	501	GTP	C3'-C2'-C1'	2.05	105.33	101.46
69	AB	500	GDP	O6-C6-C5	-2.05	121.13	126.53
69	OL	500	GDP	O6-C6-C5	-2.04	121.14	126.53
71	NE	501	GTP	C3'-C2'-C1'	2.04	105.33	101.46
71	CJ	501	GTP	C3'-C2'-C1'	2.04	105.33	101.46
69	DC	500	GDP	O6-C6-C5	-2.04	121.14	126.53
71	AE	501	GTP	C3'-C2'-C1'	2.04	105.33	101.46
69	LM	500	GDP	O6-C6-C5	-2.04	121.14	126.53
69	VJ	500	GDP	C2'-C3'-C4'	2.04	106.55	102.61
69	GF	500	GDP	O6-C6-C5	-2.04	121.15	126.53
71	DL	501	GTP	C3'-C2'-C1'	2.04	105.32	101.46
69	KK	500	GDP	O6-C6-C5	-2.04	121.15	126.53
69	PJ	500	GDP	C3'-C2'-C1'	2.04	105.32	101.46
71	Q	501	GTP	C3'-C2'-C1'	2.04	105.32	101.46
69	NL	500	GDP	O6-C6-C5	-2.04	121.15	126.53
69	PH	500	GDP	O6-C6-C5	-2.04	121.15	126.53
71	C	501	GTP	C3'-C2'-C1'	2.04	105.31	101.46
69	RE	500	GDP	C2'-C3'-C4'	2.04	106.54	102.61
71	TI	501	GTP	C3'-C2'-C1'	2.04	105.31	101.46
69	DM	500	GDP	O6-C6-C5	-2.03	121.16	126.53
69	PF	500	GDP	O6-C6-C5	-2.03	121.16	126.53
69	MN	500	GDP	C2'-C3'-C4'	2.03	106.53	102.61
69	AJ	500	GDP	C2'-C3'-C4'	2.03	106.53	102.61
69	MF	500	GDP	C2'-C3'-C4'	2.03	106.53	102.61
71	DD	501	GTP	C3'-C2'-C1'	2.03	105.30	101.46
71	FG	501	GTP	C3'-C2'-C1'	2.03	105.30	101.46
71	UC	501	GTP	C3'-C2'-C1'	2.03	105.30	101.46
69	AH	500	GDP	O6-C6-C5	-2.03	121.19	126.53
69	RC	500	GDP	O6-C6-C5	-2.02	121.19	126.53
69	ID	500	GDP	C3'-C2'-C1'	2.02	105.29	101.46
69	WF	500	GDP	C3'-C2'-C1'	2.02	105.29	101.46
69	OH	500	GDP	C3'-C2'-C1'	2.02	105.29	101.46
71	NA	501	GTP	C3'-C2'-C1'	2.02	105.29	101.46
69	CG	500	GDP	O6-C6-C5	-2.02	121.20	126.53
69	PF	500	GDP	C3'-C2'-C1'	2.02	105.29	101.46
71	WC	501	GTP	C3'-C2'-C1'	2.02	105.29	101.46
69	CC	500	GDP	O6-C6-C5	-2.02	121.20	126.53
69	VL	500	GDP	O6-C6-C5	-2.02	121.20	126.53
71	MM	501	GTP	C3'-C2'-C1'	2.02	105.28	101.46
69	ND	500	GDP	O2A-PA-O3A	2.02	112.73	107.27
71	LN	501	GTP	C3'-C2'-C1'	2.02	105.28	101.46
71	RH	501	GTP	C3'-C2'-C1'	2.02	105.28	101.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	AL	500	GDP	C2'-C3'-C4'	2.02	106.50	102.61
71	SE	501	GTP	C3'-C2'-C1'	2.02	105.28	101.46
71	BM	501	GTP	C3'-C2'-C1'	2.02	105.28	101.46
71	WK	501	GTP	C3'-C2'-C1'	2.01	105.27	101.46
69	UL	500	GDP	C3'-C2'-C1'	2.01	105.27	101.46
71	EG	501	GTP	O2A-PA-O3A	2.01	112.71	107.27
69	AB	500	GDP	C3'-C2'-C1'	2.01	105.27	101.46
71	MC	501	GTP	C3'-C2'-C1'	2.01	105.27	101.46
71	PK	501	GTP	C3'-C2'-C1'	2.01	105.27	101.46
71	UI	501	GTP	C3'-C2'-C1'	2.01	105.27	101.46
71	LF	501	GTP	C3'-C2'-C1'	2.01	105.27	101.46
69	DE	500	GDP	C3'-C2'-C1'	2.01	105.26	101.46
71	WE	501	GTP	C3'-C2'-C1'	2.01	105.26	101.46
71	OC	501	GTP	C3'-C2'-C1'	2.01	105.26	101.46
71	AM	501	GTP	C3'-C2'-C1'	2.01	105.26	101.46
71	R	501	GTP	C3'-C2'-C1'	2.01	105.26	101.46
71	AA	501	GTP	C3'-C2'-C1'	2.00	105.25	101.46

There are no chirality outliers.

All (946) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
69	AB	500	GDP	C5'-O5'-PA-O1A
69	AD	500	GDP	C5'-O5'-PA-O1A
69	AF	500	GDP	C5'-O5'-PA-O1A
69	AH	500	GDP	C5'-O5'-PA-O1A
69	AJ	500	GDP	C5'-O5'-PA-O1A
69	AN	500	GDP	C5'-O5'-PA-O1A
69	BB	500	GDP	C5'-O5'-PA-O3A
69	BD	500	GDP	C5'-O5'-PA-O1A
69	BF	500	GDP	C5'-O5'-PA-O1A
69	BH	500	GDP	C5'-O5'-PA-O3A
69	BJ	500	GDP	C5'-O5'-PA-O3A
69	BJ	500	GDP	C5'-O5'-PA-O1A
69	BL	500	GDP	C5'-O5'-PA-O1A
69	BN	500	GDP	C5'-O5'-PA-O3A
69	CA	500	GDP	C5'-O5'-PA-O3A
69	CA	500	GDP	C5'-O5'-PA-O1A
69	CA	500	GDP	C5'-O5'-PA-O2A
69	CE	500	GDP	C5'-O5'-PA-O1A
69	CG	500	GDP	C5'-O5'-PA-O3A
69	CG	500	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
69	CK	500	GDP	C5'-O5'-PA-O1A
69	CK	500	GDP	O4'-C4'-C5'-O5'
69	CM	500	GDP	C5'-O5'-PA-O3A
69	CM	500	GDP	C5'-O5'-PA-O1A
69	CM	500	GDP	C5'-O5'-PA-O2A
69	DA	500	GDP	C5'-O5'-PA-O3A
69	DA	500	GDP	C5'-O5'-PA-O1A
69	DC	500	GDP	C5'-O5'-PA-O1A
69	DE	500	GDP	C5'-O5'-PA-O1A
69	DG	500	GDP	C5'-O5'-PA-O3A
69	DI	500	GDP	C5'-O5'-PA-O1A
69	DK	500	GDP	C5'-O5'-PA-O1A
69	E	500	GDP	C5'-O5'-PA-O3A
69	E	500	GDP	C5'-O5'-PA-O2A
69	EB	500	GDP	C5'-O5'-PA-O3A
69	EB	500	GDP	C5'-O5'-PA-O1A
69	ED	500	GDP	C5'-O5'-PA-O3A
69	ED	500	GDP	C5'-O5'-PA-O1A
69	EF	500	GDP	C5'-O5'-PA-O3A
69	EF	500	GDP	C5'-O5'-PA-O2A
69	EJ	500	GDP	C5'-O5'-PA-O1A
69	EL	500	GDP	C5'-O5'-PA-O3A
69	EL	500	GDP	C5'-O5'-PA-O2A
69	FH	500	GDP	C5'-O5'-PA-O1A
69	GD	500	GDP	C5'-O5'-PA-O1A
69	GF	500	GDP	C5'-O5'-PA-O1A
69	GH	500	GDP	C5'-O5'-PA-O3A
69	GH	500	GDP	C5'-O5'-PA-O2A
69	GJ	500	GDP	C5'-O5'-PA-O3A
69	H	500	GDP	C5'-O5'-PA-O1A
69	HD	500	GDP	C5'-O5'-PA-O1A
69	HH	500	GDP	C5'-O5'-PA-O1A
69	HJ	500	GDP	C5'-O5'-PA-O3A
69	HJ	500	GDP	C5'-O5'-PA-O1A
69	IB	500	GDP	C5'-O5'-PA-O1A
69	IF	500	GDP	C5'-O5'-PA-O1A
69	IJ	500	GDP	C5'-O5'-PA-O3A
69	IJ	500	GDP	C5'-O5'-PA-O1A
69	JI	500	GDP	C5'-O5'-PA-O1A
69	JK	500	GDP	C5'-O5'-PA-O3A
69	JK	500	GDP	C5'-O5'-PA-O1A
69	JK	500	GDP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
69	KC	500	GDP	C5'-O5'-PA-O1A
69	KG	500	GDP	C5'-O5'-PA-O3A
69	KG	500	GDP	C5'-O5'-PA-O1A
69	LC	500	GDP	C5'-O5'-PA-O3A
69	LC	500	GDP	C5'-O5'-PA-O1A
69	LE	500	GDP	C5'-O5'-PA-O1A
69	LG	500	GDP	C5'-O5'-PA-O1A
69	LO	500	GDP	C5'-O5'-PA-O3A
69	LO	500	GDP	C5'-O5'-PA-O1A
69	M	500	GDP	C5'-O5'-PA-O1A
69	MD	500	GDP	C5'-O5'-PA-O1A
69	MH	500	GDP	C5'-O5'-PA-O1A
69	MJ	500	GDP	O4'-C4'-C5'-O5'
69	N	500	GDP	C5'-O5'-PA-O1A
69	NB	500	GDP	C5'-O5'-PA-O1A
69	NF	500	GDP	C5'-O5'-PA-O1A
69	NH	500	GDP	C5'-O5'-PA-O1A
69	OB	500	GDP	C5'-O5'-PA-O3A
69	OB	500	GDP	C5'-O5'-PA-O1A
69	OB	500	GDP	C5'-O5'-PA-O2A
69	OF	500	GDP	C5'-O5'-PA-O1A
69	OH	500	GDP	C5'-O5'-PA-O1A
69	PB	500	GDP	C5'-O5'-PA-O1A
69	PD	500	GDP	C5'-O5'-PA-O1A
69	PH	500	GDP	C5'-O5'-PA-O1A
69	PL	500	GDP	C5'-O5'-PA-O1A
69	QA	500	GDP	C5'-O5'-PA-O1A
69	QC	500	GDP	C5'-O5'-PA-O3A
69	QE	500	GDP	C5'-O5'-PA-O1A
69	QG	500	GDP	C5'-O5'-PA-O1A
69	QI	500	GDP	C5'-O5'-PA-O3A
69	QK	500	GDP	C5'-O5'-PA-O3A
69	QK	500	GDP	C5'-O5'-PA-O2A
69	QK	500	GDP	C3'-C4'-C5'-O5'
69	RA	500	GDP	C5'-O5'-PA-O1A
69	RC	500	GDP	C5'-O5'-PA-O1A
69	RG	500	GDP	C5'-O5'-PA-O1A
69	S	500	GDP	C5'-O5'-PA-O3A
69	S	500	GDP	C5'-O5'-PA-O1A
69	SB	500	GDP	C5'-O5'-PA-O1A
69	SD	500	GDP	C5'-O5'-PA-O1A
69	SF	500	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
69	TB	500	GDP	C5'-O5'-PA-O3A
69	TB	500	GDP	C5'-O5'-PA-O1A
69	TB	500	GDP	C5'-O5'-PA-O2A
69	TF	500	GDP	C5'-O5'-PA-O1A
69	TH	500	GDP	C5'-O5'-PA-O1A
69	TJ	500	GDP	C5'-O5'-PA-O3A
69	TJ	500	GDP	C5'-O5'-PA-O1A
69	U	500	GDP	C5'-O5'-PA-O3A
69	U	500	GDP	C5'-O5'-PA-O1A
69	UB	500	GDP	C5'-O5'-PA-O3A
69	UB	500	GDP	C5'-O5'-PA-O2A
69	UD	500	GDP	C5'-O5'-PA-O3A
69	UD	500	GDP	C5'-O5'-PA-O1A
69	UD	500	GDP	C5'-O5'-PA-O2A
69	UF	500	GDP	C5'-O5'-PA-O1A
69	UH	500	GDP	C5'-O5'-PA-O1A
69	VB	500	GDP	C5'-O5'-PA-O1A
69	VD	500	GDP	C5'-O5'-PA-O1A
69	VF	500	GDP	C5'-O5'-PA-O1A
69	VJ	500	GDP	C5'-O5'-PA-O3A
69	VJ	500	GDP	C5'-O5'-PA-O1A
69	VL	500	GDP	C5'-O5'-PA-O1A
69	WD	500	GDP	C5'-O5'-PA-O3A
69	WD	500	GDP	C5'-O5'-PA-O1A
69	WH	500	GDP	C5'-O5'-PA-O1A
69	WJ	500	GDP	C5'-O5'-PA-O1A
69	WL	500	GDP	C5'-O5'-PA-O1A
71	AA	501	GTP	C5'-O5'-PA-O1A
71	AC	501	GTP	C5'-O5'-PA-O3A
71	AC	501	GTP	C5'-O5'-PA-O1A
71	AC	501	GTP	C5'-O5'-PA-O2A
71	AE	501	GTP	C5'-O5'-PA-O3A
71	AE	501	GTP	C5'-O5'-PA-O1A
71	AE	501	GTP	C5'-O5'-PA-O2A
71	AG	501	GTP	C5'-O5'-PA-O3A
71	AG	501	GTP	C5'-O5'-PA-O1A
71	AG	501	GTP	C5'-O5'-PA-O2A
71	AK	501	GTP	C5'-O5'-PA-O2A
71	AM	501	GTP	C5'-O5'-PA-O1A
71	BA	501	GTP	C5'-O5'-PA-O3A
71	BE	501	GTP	C5'-O5'-PA-O3A
71	BE	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
71	BE	501	GTP	C5'-O5'-PA-O2A
71	BI	501	GTP	C5'-O5'-PA-O3A
71	BI	501	GTP	C5'-O5'-PA-O1A
71	BI	501	GTP	C5'-O5'-PA-O2A
71	BK	501	GTP	C5'-O5'-PA-O3A
71	BK	501	GTP	C5'-O5'-PA-O1A
71	BM	501	GTP	C5'-O5'-PA-O3A
71	BM	501	GTP	C5'-O5'-PA-O2A
71	C	501	GTP	PB-O3A-PA-O5'
71	C	501	GTP	C5'-O5'-PA-O3A
71	CB	501	GTP	C5'-O5'-PA-O3A
71	CB	501	GTP	C5'-O5'-PA-O1A
71	CB	501	GTP	C5'-O5'-PA-O2A
71	CD	501	GTP	C5'-O5'-PA-O3A
71	CD	501	GTP	C5'-O5'-PA-O2A
71	CF	501	GTP	C5'-O5'-PA-O3A
71	CF	501	GTP	C5'-O5'-PA-O1A
71	CH	501	GTP	PB-O3B-PG-O3G
71	CH	501	GTP	O4'-C4'-C5'-O5'
71	CH	501	GTP	C3'-C4'-C5'-O5'
71	CJ	501	GTP	C5'-O5'-PA-O3A
71	CJ	501	GTP	C5'-O5'-PA-O2A
71	CL	501	GTP	PB-O3B-PG-O3G
71	CL	501	GTP	C5'-O5'-PA-O3A
71	CL	501	GTP	C5'-O5'-PA-O1A
71	D	501	GTP	PB-O3B-PG-O2G
71	D	501	GTP	PB-O3B-PG-O3G
71	D	501	GTP	C5'-O5'-PA-O3A
71	D	501	GTP	C5'-O5'-PA-O1A
71	D	501	GTP	C5'-O5'-PA-O2A
71	DB	501	GTP	C5'-O5'-PA-O3A
71	DB	501	GTP	C5'-O5'-PA-O1A
71	DB	501	GTP	C5'-O5'-PA-O2A
71	DD	501	GTP	C5'-O5'-PA-O3A
71	DD	501	GTP	C5'-O5'-PA-O1A
71	DD	501	GTP	C5'-O5'-PA-O2A
71	DF	501	GTP	C5'-O5'-PA-O3A
71	DF	501	GTP	C5'-O5'-PA-O1A
71	DJ	501	GTP	C5'-O5'-PA-O3A
71	DJ	501	GTP	C5'-O5'-PA-O1A
71	DJ	501	GTP	C5'-O5'-PA-O2A
71	DL	501	GTP	PB-O3B-PG-O3G

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Mol	Chain	Res	Type	Atoms
71	DL	501	GTP	C5'-O5'-PA-O3A
71	EA	501	GTP	PB-O3B-PG-O3G
71	EA	501	GTP	C5'-O5'-PA-O1A
71	EC	501	GTP	C5'-O5'-PA-O3A
71	EC	501	GTP	C5'-O5'-PA-O1A
71	EC	501	GTP	C5'-O5'-PA-O2A
71	EE	501	GTP	C5'-O5'-PA-O3A
71	EE	501	GTP	C5'-O5'-PA-O2A
71	EG	501	GTP	C5'-O5'-PA-O3A
71	EG	501	GTP	C5'-O5'-PA-O2A
71	EI	501	GTP	O4'-C4'-C5'-O5'
71	EK	501	GTP	C5'-O5'-PA-O3A
71	EK	501	GTP	C5'-O5'-PA-O2A
71	FA	501	GTP	C5'-O5'-PA-O3A
71	FC	501	GTP	C5'-O5'-PA-O3A
71	FC	501	GTP	C5'-O5'-PA-O1A
71	FC	501	GTP	C5'-O5'-PA-O2A
71	FE	501	GTP	PB-O3B-PG-O2G
71	FE	501	GTP	C5'-O5'-PA-O3A
71	FE	501	GTP	C5'-O5'-PA-O1A
71	FE	501	GTP	C5'-O5'-PA-O2A
71	FG	501	GTP	C5'-O5'-PA-O3A
71	FG	501	GTP	C5'-O5'-PA-O1A
71	FG	501	GTP	C5'-O5'-PA-O2A
71	FI	501	GTP	O4'-C4'-C5'-O5'
71	FI	501	GTP	C3'-C4'-C5'-O5'
71	FK	501	GTP	C5'-O5'-PA-O3A
71	FK	501	GTP	C5'-O5'-PA-O2A
71	GA	501	GTP	PB-O3B-PG-O2G
71	GA	501	GTP	PB-O3B-PG-O3G
71	GA	501	GTP	C5'-O5'-PA-O3A
71	GA	501	GTP	C5'-O5'-PA-O1A
71	GA	501	GTP	C5'-O5'-PA-O2A
71	GC	501	GTP	C5'-O5'-PA-O3A
71	GC	501	GTP	C5'-O5'-PA-O2A
71	GC	501	GTP	C4'-C5'-O5'-PA
71	GE	501	GTP	C5'-O5'-PA-O3A
71	GE	501	GTP	C5'-O5'-PA-O2A
71	GG	501	GTP	C5'-O5'-PA-O3A
71	GG	501	GTP	C5'-O5'-PA-O1A
71	GG	501	GTP	C5'-O5'-PA-O2A
71	GK	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
71	GK	501	GTP	C5'-O5'-PA-O1A
71	GK	501	GTP	C5'-O5'-PA-O2A
71	HA	501	GTP	C5'-O5'-PA-O3A
71	HA	501	GTP	C5'-O5'-PA-O2A
71	HC	501	GTP	C5'-O5'-PA-O3A
71	HC	501	GTP	C5'-O5'-PA-O1A
71	HC	501	GTP	C5'-O5'-PA-O2A
71	HE	501	GTP	C5'-O5'-PA-O3A
71	HE	501	GTP	C5'-O5'-PA-O1A
71	HE	501	GTP	C5'-O5'-PA-O2A
71	HG	501	GTP	C5'-O5'-PA-O3A
71	HG	501	GTP	C5'-O5'-PA-O2A
71	HK	501	GTP	C5'-O5'-PA-O3A
71	HK	501	GTP	C5'-O5'-PA-O1A
71	HK	501	GTP	C5'-O5'-PA-O2A
71	HM	501	GTP	C5'-O5'-PA-O3A
71	HM	501	GTP	C5'-O5'-PA-O2A
71	IA	501	GTP	PB-O3A-PA-O5'
71	IA	501	GTP	C5'-O5'-PA-O3A
71	IA	501	GTP	C5'-O5'-PA-O1A
71	IC	501	GTP	C5'-O5'-PA-O3A
71	IC	501	GTP	C5'-O5'-PA-O1A
71	IC	501	GTP	C5'-O5'-PA-O2A
71	IG	501	GTP	C5'-O5'-PA-O3A
71	IG	501	GTP	C5'-O5'-PA-O1A
71	IG	501	GTP	C5'-O5'-PA-O2A
71	IG	501	GTP	O4'-C4'-C5'-O5'
71	IM	501	GTP	PB-O3A-PA-O5'
71	IM	501	GTP	C5'-O5'-PA-O3A
71	J	501	GTP	C5'-O5'-PA-O3A
71	J	501	GTP	C5'-O5'-PA-O1A
71	JB	501	GTP	C5'-O5'-PA-O3A
71	JD	501	GTP	C5'-O5'-PA-O3A
71	JD	501	GTP	C5'-O5'-PA-O2A
71	JF	501	GTP	C5'-O5'-PA-O3A
71	JF	501	GTP	C5'-O5'-PA-O2A
71	JF	501	GTP	C4'-C5'-O5'-PA
71	JH	501	GTP	C5'-O5'-PA-O2A
71	JH	501	GTP	O4'-C4'-C5'-O5'
71	JH	501	GTP	C3'-C4'-C5'-O5'
71	JJ	501	GTP	C5'-O5'-PA-O3A
71	JJ	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
71	JJ	501	GTP	C5'-O5'-PA-O2A
71	JN	501	GTP	C5'-O5'-PA-O3A
71	JN	501	GTP	C5'-O5'-PA-O2A
71	K	501	GTP	O4'-C4'-C5'-O5'
71	KB	501	GTP	C5'-O5'-PA-O3A
71	KB	501	GTP	C5'-O5'-PA-O2A
71	KD	501	GTP	C5'-O5'-PA-O3A
71	KD	501	GTP	C5'-O5'-PA-O2A
71	KF	501	GTP	C5'-O5'-PA-O3A
71	KF	501	GTP	C5'-O5'-PA-O1A
71	KF	501	GTP	C5'-O5'-PA-O2A
71	KH	501	GTP	PB-O3B-PG-O3G
71	KH	501	GTP	O4'-C4'-C5'-O5'
71	KH	501	GTP	C3'-C4'-C5'-O5'
71	KJ	501	GTP	C5'-O5'-PA-O3A
71	KJ	501	GTP	C5'-O5'-PA-O1A
71	KL	501	GTP	O4'-C4'-C5'-O5'
71	KN	501	GTP	O4'-C4'-C5'-O5'
71	L	501	GTP	C5'-O5'-PA-O1A
71	LB	501	GTP	C5'-O5'-PA-O3A
71	LB	501	GTP	C5'-O5'-PA-O2A
71	LD	501	GTP	C5'-O5'-PA-O3A
71	LF	501	GTP	C5'-O5'-PA-O3A
71	LJ	501	GTP	C5'-O5'-PA-O3A
71	LJ	501	GTP	C5'-O5'-PA-O1A
71	LJ	501	GTP	C5'-O5'-PA-O2A
71	LN	501	GTP	C5'-O5'-PA-O3A
71	LN	501	GTP	C5'-O5'-PA-O1A
71	LN	501	GTP	C5'-O5'-PA-O2A
71	MC	501	GTP	C5'-O5'-PA-O3A
71	MC	501	GTP	C5'-O5'-PA-O1A
71	ME	501	GTP	C5'-O5'-PA-O3A
71	ME	501	GTP	C5'-O5'-PA-O2A
71	MG	501	GTP	C5'-O5'-PA-O3A
71	MG	501	GTP	O4'-C4'-C5'-O5'
71	MG	501	GTP	C3'-C4'-C5'-O5'
71	MI	501	GTP	PB-O3B-PG-O3G
71	MI	501	GTP	C5'-O5'-PA-O3A
71	MI	501	GTP	C5'-O5'-PA-O1A
71	MI	501	GTP	C5'-O5'-PA-O2A
71	MK	501	GTP	PB-O3A-PA-O5'
71	MK	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
71	NA	501	GTP	PB-O3B-PG-O3G
71	NA	501	GTP	PB-O3A-PA-O5'
71	NA	501	GTP	C5'-O5'-PA-O3A
71	NA	501	GTP	C5'-O5'-PA-O2A
71	NC	501	GTP	C5'-O5'-PA-O3A
71	NC	501	GTP	C5'-O5'-PA-O2A
71	NE	501	GTP	PB-O3B-PG-O2G
71	NE	501	GTP	C5'-O5'-PA-O3A
71	NE	501	GTP	C5'-O5'-PA-O1A
71	NE	501	GTP	C5'-O5'-PA-O2A
71	NG	501	GTP	C5'-O5'-PA-O3A
71	NG	501	GTP	C5'-O5'-PA-O1A
71	NK	501	GTP	C5'-O5'-PA-O3A
71	NK	501	GTP	C4'-C5'-O5'-PA
71	NM	501	GTP	C5'-O5'-PA-O3A
71	OA	501	GTP	PB-O3A-PA-O5'
71	OA	501	GTP	C5'-O5'-PA-O3A
71	OA	501	GTP	C5'-O5'-PA-O1A
71	OE	501	GTP	C5'-O5'-PA-O3A
71	OE	501	GTP	C5'-O5'-PA-O1A
71	OE	501	GTP	C5'-O5'-PA-O2A
71	OG	501	GTP	C5'-O5'-PA-O3A
71	OG	501	GTP	C5'-O5'-PA-O2A
71	OG	501	GTP	C4'-C5'-O5'-PA
71	OI	501	GTP	C5'-O5'-PA-O3A
71	OI	501	GTP	C5'-O5'-PA-O2A
71	OI	501	GTP	O4'-C4'-C5'-O5'
71	OI	501	GTP	C3'-C4'-C5'-O5'
71	OK	501	GTP	C5'-O5'-PA-O3A
71	OK	501	GTP	C5'-O5'-PA-O1A
71	OK	501	GTP	C5'-O5'-PA-O2A
71	OM	501	GTP	PB-O3A-PA-O5'
71	OM	501	GTP	C5'-O5'-PA-O3A
71	OM	501	GTP	C5'-O5'-PA-O1A
71	PC	501	GTP	C5'-O5'-PA-O3A
71	PC	501	GTP	C5'-O5'-PA-O1A
71	PC	501	GTP	C5'-O5'-PA-O2A
71	PG	501	GTP	C5'-O5'-PA-O1A
71	PI	501	GTP	C5'-O5'-PA-O3A
71	PI	501	GTP	C5'-O5'-PA-O2A
71	PI	501	GTP	O4'-C4'-C5'-O5'
71	PK	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
71	PM	501	GTP	C5'-O5'-PA-O3A
71	PM	501	GTP	C5'-O5'-PA-O1A
71	PM	501	GTP	C5'-O5'-PA-O2A
71	Q	501	GTP	C5'-O5'-PA-O3A
71	Q	501	GTP	C5'-O5'-PA-O2A
71	QD	501	GTP	C5'-O5'-PA-O3A
71	QD	501	GTP	C5'-O5'-PA-O1A
71	QD	501	GTP	C5'-O5'-PA-O2A
71	QH	501	GTP	PB-O3B-PG-O2G
71	QH	501	GTP	PB-O3B-PG-O3G
71	QH	501	GTP	C5'-O5'-PA-O3A
71	QH	501	GTP	C5'-O5'-PA-O1A
71	QH	501	GTP	C5'-O5'-PA-O2A
71	QH	501	GTP	C4'-C5'-O5'-PA
71	QH	501	GTP	O4'-C4'-C5'-O5'
71	QJ	501	GTP	C5'-O5'-PA-O3A
71	QJ	501	GTP	C5'-O5'-PA-O1A
71	QJ	501	GTP	C5'-O5'-PA-O2A
71	QL	501	GTP	C5'-O5'-PA-O3A
71	QL	501	GTP	C5'-O5'-PA-O1A
71	QL	501	GTP	C5'-O5'-PA-O2A
71	R	501	GTP	C5'-O5'-PA-O3A
71	R	501	GTP	C5'-O5'-PA-O1A
71	R	501	GTP	C5'-O5'-PA-O2A
71	RB	501	GTP	C5'-O5'-PA-O3A
71	RB	501	GTP	C5'-O5'-PA-O1A
71	RB	501	GTP	C5'-O5'-PA-O2A
71	RD	501	GTP	PB-O3A-PA-O5'
71	RD	501	GTP	C5'-O5'-PA-O3A
71	RD	501	GTP	C5'-O5'-PA-O1A
71	RH	501	GTP	O4'-C4'-C5'-O5'
71	RL	501	GTP	PB-O3A-PA-O5'
71	RL	501	GTP	C5'-O5'-PA-O3A
71	SA	501	GTP	C5'-O5'-PA-O3A
71	SA	501	GTP	C5'-O5'-PA-O2A
71	SC	501	GTP	C5'-O5'-PA-O3A
71	SC	501	GTP	C5'-O5'-PA-O1A
71	SE	501	GTP	C5'-O5'-PA-O3A
71	SE	501	GTP	C5'-O5'-PA-O1A
71	SE	501	GTP	C5'-O5'-PA-O2A
71	SG	501	GTP	PB-O3B-PG-O3G
71	SG	501	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
71	SG	501	GTP	O4'-C4'-C5'-O5'
71	SI	501	GTP	C5'-O5'-PA-O3A
71	SI	501	GTP	C5'-O5'-PA-O2A
71	TA	501	GTP	C5'-O5'-PA-O3A
71	TA	501	GTP	C5'-O5'-PA-O1A
71	TA	501	GTP	C5'-O5'-PA-O2A
71	TC	501	GTP	C5'-O5'-PA-O1A
71	TE	501	GTP	C5'-O5'-PA-O3A
71	TE	501	GTP	C5'-O5'-PA-O1A
71	TE	501	GTP	C5'-O5'-PA-O2A
71	TI	501	GTP	C5'-O5'-PA-O3A
71	TI	501	GTP	C5'-O5'-PA-O1A
71	TI	501	GTP	C5'-O5'-PA-O2A
71	UA	501	GTP	PB-O3B-PG-O3G
71	UA	501	GTP	C5'-O5'-PA-O3A
71	UA	501	GTP	C5'-O5'-PA-O2A
71	UC	501	GTP	C5'-O5'-PA-O3A
71	UC	501	GTP	C5'-O5'-PA-O1A
71	UC	501	GTP	C5'-O5'-PA-O2A
71	UE	501	GTP	C5'-O5'-PA-O3A
71	UE	501	GTP	C5'-O5'-PA-O1A
71	UE	501	GTP	C5'-O5'-PA-O2A
71	UG	501	GTP	C5'-O5'-PA-O3A
71	UG	501	GTP	C5'-O5'-PA-O2A
71	UG	501	GTP	O4'-C4'-C5'-O5'
71	UI	501	GTP	C5'-O5'-PA-O3A
71	UI	501	GTP	C5'-O5'-PA-O1A
71	UI	501	GTP	C5'-O5'-PA-O2A
71	UK	501	GTP	C5'-O5'-PA-O1A
71	VA	501	GTP	C5'-O5'-PA-O3A
71	VA	501	GTP	C5'-O5'-PA-O1A
71	VC	501	GTP	C5'-O5'-PA-O3A
71	VC	501	GTP	C5'-O5'-PA-O1A
71	VC	501	GTP	C5'-O5'-PA-O2A
71	VG	501	GTP	O4'-C4'-C5'-O5'
71	VI	501	GTP	C5'-O5'-PA-O3A
71	VI	501	GTP	C5'-O5'-PA-O1A
71	VI	501	GTP	C5'-O5'-PA-O2A
71	VM	501	GTP	C5'-O5'-PA-O3A
71	VM	501	GTP	C5'-O5'-PA-O2A
71	WE	501	GTP	PB-O3B-PG-O3G
71	WI	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
71	WI	501	GTP	C5'-O5'-PA-O1A
71	WI	501	GTP	C5'-O5'-PA-O2A
71	WK	501	GTP	C5'-O5'-PA-O3A
71	WK	501	GTP	C5'-O5'-PA-O1A
71	WM	501	GTP	C5'-O5'-PA-O3A
71	WM	501	GTP	C5'-O5'-PA-O2A
74	2v	501	ATP	O4'-C4'-C5'-O5'
74	2w	501	ATP	C2'-C1'-N9-C8
69	CK	500	GDP	C3'-C4'-C5'-O5'
69	EB	500	GDP	C3'-C4'-C5'-O5'
69	MJ	500	GDP	C3'-C4'-C5'-O5'
69	O	500	GDP	C3'-C4'-C5'-O5'
69	PF	500	GDP	O4'-C4'-C5'-O5'
69	PF	500	GDP	C3'-C4'-C5'-O5'
71	AG	501	GTP	O4'-C4'-C5'-O5'
71	AG	501	GTP	C3'-C4'-C5'-O5'
71	BE	501	GTP	O4'-C4'-C5'-O5'
71	BE	501	GTP	C3'-C4'-C5'-O5'
71	DF	501	GTP	O4'-C4'-C5'-O5'
71	DF	501	GTP	C3'-C4'-C5'-O5'
71	EA	501	GTP	C3'-C4'-C5'-O5'
71	EI	501	GTP	C3'-C4'-C5'-O5'
71	IG	501	GTP	C3'-C4'-C5'-O5'
71	K	501	GTP	C3'-C4'-C5'-O5'
71	KL	501	GTP	C3'-C4'-C5'-O5'
71	L	501	GTP	O4'-C4'-C5'-O5'
71	L	501	GTP	C3'-C4'-C5'-O5'
71	LL	501	GTP	O4'-C4'-C5'-O5'
71	LL	501	GTP	C3'-C4'-C5'-O5'
71	QH	501	GTP	C3'-C4'-C5'-O5'
71	RH	501	GTP	C3'-C4'-C5'-O5'
71	SC	501	GTP	O4'-C4'-C5'-O5'
71	SC	501	GTP	C3'-C4'-C5'-O5'
71	TE	501	GTP	O4'-C4'-C5'-O5'
71	TE	501	GTP	C3'-C4'-C5'-O5'
71	UE	501	GTP	O4'-C4'-C5'-O5'
71	UE	501	GTP	C3'-C4'-C5'-O5'
71	UG	501	GTP	C3'-C4'-C5'-O5'
71	VA	501	GTP	O4'-C4'-C5'-O5'
71	VA	501	GTP	C3'-C4'-C5'-O5'
71	SI	501	GTP	C4'-C5'-O5'-PA
69	DA	500	GDP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
69	DA	500	GDP	C3'-C4'-C5'-O5'
69	EB	500	GDP	O4'-C4'-C5'-O5'
69	O	500	GDP	O4'-C4'-C5'-O5'
69	PJ	500	GDP	O4'-C4'-C5'-O5'
69	PJ	500	GDP	C3'-C4'-C5'-O5'
69	QK	500	GDP	O4'-C4'-C5'-O5'
71	BK	501	GTP	O4'-C4'-C5'-O5'
71	BK	501	GTP	C3'-C4'-C5'-O5'
71	EA	501	GTP	O4'-C4'-C5'-O5'
71	IE	501	GTP	O4'-C4'-C5'-O5'
71	JL	501	GTP	O4'-C4'-C5'-O5'
71	JL	501	GTP	C3'-C4'-C5'-O5'
71	LH	501	GTP	O4'-C4'-C5'-O5'
71	TK	501	GTP	O4'-C4'-C5'-O5'
71	TK	501	GTP	C3'-C4'-C5'-O5'
74	2v	501	ATP	C3'-C4'-C5'-O5'
74	2w	501	ATP	O4'-C4'-C5'-O5'
74	2w	501	ATP	C3'-C4'-C5'-O5'
74	2w	501	ATP	C2'-C1'-N9-C4
71	FK	501	GTP	C4'-C5'-O5'-PA
71	HG	501	GTP	C4'-C5'-O5'-PA
71	PI	501	GTP	C3'-C4'-C5'-O5'
71	SG	501	GTP	C3'-C4'-C5'-O5'
71	VG	501	GTP	C3'-C4'-C5'-O5'
71	VK	501	GTP	C3'-C4'-C5'-O5'
71	GA	501	GTP	C4'-C5'-O5'-PA
71	RF	501	GTP	C4'-C5'-O5'-PA
69	ED	500	GDP	C3'-C4'-C5'-O5'
69	GF	500	GDP	C3'-C4'-C5'-O5'
69	LI	500	GDP	C3'-C4'-C5'-O5'
69	M	500	GDP	C3'-C4'-C5'-O5'
69	OB	500	GDP	O4'-C4'-C5'-O5'
69	OH	500	GDP	C3'-C4'-C5'-O5'
71	AM	501	GTP	C3'-C4'-C5'-O5'
71	DL	501	GTP	C3'-C4'-C5'-O5'
71	IE	501	GTP	C3'-C4'-C5'-O5'
71	KN	501	GTP	C3'-C4'-C5'-O5'
71	LH	501	GTP	C3'-C4'-C5'-O5'
71	QB	501	GTP	C3'-C4'-C5'-O5'
71	RD	501	GTP	C3'-C4'-C5'-O5'
71	UK	501	GTP	C3'-C4'-C5'-O5'
71	WE	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
71	BI	501	GTP	C4'-C5'-O5'-PA
71	GG	501	GTP	C4'-C5'-O5'-PA
69	ED	500	GDP	O4'-C4'-C5'-O5'
69	IB	500	GDP	C3'-C4'-C5'-O5'
69	IF	500	GDP	C3'-C4'-C5'-O5'
69	PD	500	GDP	C3'-C4'-C5'-O5'
69	SD	500	GDP	C3'-C4'-C5'-O5'
71	DL	501	GTP	O4'-C4'-C5'-O5'
71	HI	501	GTP	O4'-C4'-C5'-O5'
71	HI	501	GTP	C3'-C4'-C5'-O5'
71	IA	501	GTP	C3'-C4'-C5'-O5'
71	VK	501	GTP	O4'-C4'-C5'-O5'
69	F	500	GDP	C3'-C4'-C5'-O5'
69	OJ	500	GDP	C3'-C4'-C5'-O5'
71	AM	501	GTP	O4'-C4'-C5'-O5'
71	CF	501	GTP	C3'-C4'-C5'-O5'
71	DH	501	GTP	O4'-C4'-C5'-O5'
71	EE	501	GTP	C3'-C4'-C5'-O5'
71	WE	501	GTP	O4'-C4'-C5'-O5'
71	RL	501	GTP	PB-O3B-PG-O1G
69	NB	500	GDP	C3'-C4'-C5'-O5'
69	OL	500	GDP	C3'-C4'-C5'-O5'
71	DH	501	GTP	C3'-C4'-C5'-O5'
71	PG	501	GTP	C3'-C4'-C5'-O5'
71	D	501	GTP	PG-O3B-PB-O1B
71	FG	501	GTP	PB-O3A-PA-O1A
71	ME	501	GTP	PA-O3A-PB-O1B
71	NG	501	GTP	PB-O3A-PA-O1A
71	VG	501	GTP	PB-O3A-PA-O1A
71	EG	501	GTP	C4'-C5'-O5'-PA
71	GE	501	GTP	C4'-C5'-O5'-PA
71	LF	501	GTP	C4'-C5'-O5'-PA
71	LJ	501	GTP	C4'-C5'-O5'-PA
71	OI	501	GTP	C4'-C5'-O5'-PA
71	OK	501	GTP	C4'-C5'-O5'-PA
69	GF	500	GDP	O4'-C4'-C5'-O5'
69	M	500	GDP	O4'-C4'-C5'-O5'
71	UK	501	GTP	O4'-C4'-C5'-O5'
71	FG	501	GTP	C4'-C5'-O5'-PA
71	FI	501	GTP	C4'-C5'-O5'-PA
71	IC	501	GTP	C4'-C5'-O5'-PA
71	ME	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
71	QF	501	GTP	C4'-C5'-O5'-PA
69	LI	500	GDP	O4'-C4'-C5'-O5'
69	OH	500	GDP	O4'-C4'-C5'-O5'
71	IA	501	GTP	O4'-C4'-C5'-O5'
71	RD	501	GTP	O4'-C4'-C5'-O5'
71	AM	501	GTP	PB-O3A-PA-O5'
71	CF	501	GTP	PB-O3A-PA-O5'
71	CL	501	GTP	PB-O3A-PA-O5'
71	D	501	GTP	PB-O3A-PA-O5'
71	DL	501	GTP	PB-O3A-PA-O5'
71	KB	501	GTP	PB-O3A-PA-O5'
71	LD	501	GTP	PB-O3A-PA-O5'
71	NM	501	GTP	PB-O3A-PA-O5'
71	QH	501	GTP	PB-O3A-PA-O5'
71	R	501	GTP	PB-O3A-PA-O5'
71	UA	501	GTP	PB-O3A-PA-O5'
71	UE	501	GTP	PB-O3A-PA-O5'
71	UK	501	GTP	PB-O3A-PA-O5'
71	VK	501	GTP	PB-O3A-PA-O5'
71	WE	501	GTP	PB-O3A-PA-O5'
71	WK	501	GTP	PB-O3A-PA-O5'
71	TC	501	GTP	C3'-C4'-C5'-O5'
71	VM	501	GTP	C3'-C4'-C5'-O5'
71	KF	501	GTP	PB-O3B-PG-O1G
71	TA	501	GTP	PB-O3B-PG-O1G
71	VC	501	GTP	PB-O3B-PG-O1G
71	WE	501	GTP	PB-O3B-PG-O1G
71	BE	501	GTP	PB-O3B-PG-O2G
71	BE	501	GTP	PB-O3B-PG-O3G
71	C	501	GTP	PB-O3B-PG-O3G
71	CF	501	GTP	PB-O3B-PG-O2G
71	CL	501	GTP	PB-O3B-PG-O2G
71	NA	501	GTP	PB-O3B-PG-O2G
71	RD	501	GTP	PB-O3B-PG-O2G
71	RL	501	GTP	PB-O3B-PG-O3G
71	SG	501	GTP	PB-O3B-PG-O2G
69	HD	500	GDP	C3'-C4'-C5'-O5'
69	IB	500	GDP	O4'-C4'-C5'-O5'
69	JG	500	GDP	C3'-C4'-C5'-O5'
69	KI	500	GDP	C3'-C4'-C5'-O5'
69	MF	500	GDP	C3'-C4'-C5'-O5'
69	NF	500	GDP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
71	AA	501	GTP	C3'-C4'-C5'-O5'
71	II	501	GTP	C3'-C4'-C5'-O5'
71	JD	501	GTP	C3'-C4'-C5'-O5'
71	DF	501	GTP	C4'-C5'-O5'-PA
71	DL	501	GTP	C4'-C5'-O5'-PA
71	NA	501	GTP	C4'-C5'-O5'-PA
74	2v	501	ATP	C2'-C1'-N9-C8
71	BE	501	GTP	PA-O3A-PB-O1B
71	QH	501	GTP	PA-O3A-PB-O2B
71	UE	501	GTP	PA-O3A-PB-O1B
74	2w	501	ATP	PA-O3A-PB-O1B
69	GL	500	GDP	C3'-C4'-C5'-O5'
71	D	501	GTP	C3'-C4'-C5'-O5'
71	EE	501	GTP	O4'-C4'-C5'-O5'
71	LD	501	GTP	C3'-C4'-C5'-O5'
71	MK	501	GTP	C4'-C5'-O5'-PA
69	F	500	GDP	O4'-C4'-C5'-O5'
69	FL	500	GDP	C3'-C4'-C5'-O5'
69	IF	500	GDP	O4'-C4'-C5'-O5'
69	OJ	500	GDP	O4'-C4'-C5'-O5'
69	PD	500	GDP	O4'-C4'-C5'-O5'
69	SB	500	GDP	C3'-C4'-C5'-O5'
69	SD	500	GDP	O4'-C4'-C5'-O5'
71	CF	501	GTP	O4'-C4'-C5'-O5'
71	II	501	GTP	O4'-C4'-C5'-O5'
71	RL	501	GTP	C3'-C4'-C5'-O5'
69	A	500	GDP	C5'-O5'-PA-O1A
69	AL	500	GDP	C5'-O5'-PA-O1A
69	BB	500	GDP	C5'-O5'-PA-O1A
69	BH	500	GDP	C5'-O5'-PA-O1A
69	BN	500	GDP	C5'-O5'-PA-O1A
69	CC	500	GDP	C5'-O5'-PA-O1A
69	CI	500	GDP	C5'-O5'-PA-O1A
69	DG	500	GDP	C5'-O5'-PA-O1A
69	DI	500	GDP	C5'-O5'-PA-O3A
69	EF	500	GDP	C5'-O5'-PA-O1A
69	EH	500	GDP	C5'-O5'-PA-O1A
69	F	500	GDP	C5'-O5'-PA-O1A
69	FD	500	GDP	C5'-O5'-PA-O1A
69	FF	500	GDP	C5'-O5'-PA-O1A
69	FJ	500	GDP	C5'-O5'-PA-O1A
69	FL	500	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
69	GB	500	GDP	C5'-O5'-PA-O1A
69	GF	500	GDP	C5'-O5'-PA-O3A
69	GH	500	GDP	C5'-O5'-PA-O1A
69	GJ	500	GDP	C5'-O5'-PA-O1A
69	GL	500	GDP	C5'-O5'-PA-O1A
69	HB	500	GDP	C5'-O5'-PA-O1A
69	HL	500	GDP	C5'-O5'-PA-O1A
69	ID	500	GDP	C5'-O5'-PA-O1A
69	IH	500	GDP	C5'-O5'-PA-O1A
69	JA	500	GDP	C5'-O5'-PA-O1A
69	JC	500	GDP	C5'-O5'-PA-O1A
69	JE	500	GDP	C5'-O5'-PA-O1A
69	KA	500	GDP	C5'-O5'-PA-O1A
69	KE	500	GDP	C5'-O5'-PA-O1A
69	KI	500	GDP	C5'-O5'-PA-O1A
69	KK	500	GDP	C5'-O5'-PA-O1A
69	KM	500	GDP	C5'-O5'-PA-O1A
69	LA	500	GDP	C5'-O5'-PA-O1A
69	LE	500	GDP	C5'-O5'-PA-O3A
69	LI	500	GDP	C5'-O5'-PA-O1A
69	LK	500	GDP	C5'-O5'-PA-O1A
69	MB	500	GDP	C5'-O5'-PA-O1A
69	MF	500	GDP	C5'-O5'-PA-O1A
69	MJ	500	GDP	C5'-O5'-PA-O1A
69	ML	500	GDP	C5'-O5'-PA-O1A
69	MN	500	GDP	C5'-O5'-PA-O1A
69	NJ	500	GDP	C5'-O5'-PA-O1A
69	NL	500	GDP	C5'-O5'-PA-O1A
69	OD	500	GDP	C5'-O5'-PA-O1A
69	OJ	500	GDP	C5'-O5'-PA-O1A
69	P	500	GDP	C5'-O5'-PA-O1A
69	PD	500	GDP	C5'-O5'-PA-O3A
69	PF	500	GDP	C5'-O5'-PA-O1A
69	PJ	500	GDP	C5'-O5'-PA-O1A
69	QC	500	GDP	C5'-O5'-PA-O1A
69	QI	500	GDP	C5'-O5'-PA-O1A
69	RK	500	GDP	C5'-O5'-PA-O1A
69	SH	500	GDP	C5'-O5'-PA-O1A
69	SJ	500	GDP	C5'-O5'-PA-O1A
69	T	500	GDP	C5'-O5'-PA-O1A
69	TD	500	GDP	C5'-O5'-PA-O1A
69	UB	500	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
69	UJ	500	GDP	C5'-O5'-PA-O1A
69	UL	500	GDP	C5'-O5'-PA-O1A
69	V	500	GDP	C5'-O5'-PA-O1A
69	VH	500	GDP	C5'-O5'-PA-O1A
69	W	500	GDP	C5'-O5'-PA-O1A
69	WB	500	GDP	C5'-O5'-PA-O1A
69	WF	500	GDP	C5'-O5'-PA-O1A
69	WH	500	GDP	C5'-O5'-PA-O3A
71	AA	501	GTP	C5'-O5'-PA-O3A
71	AK	501	GTP	C5'-O5'-PA-O3A
71	AK	501	GTP	C5'-O5'-PA-O1A
71	BA	501	GTP	C5'-O5'-PA-O1A
71	BM	501	GTP	C5'-O5'-PA-O1A
71	C	501	GTP	C5'-O5'-PA-O1A
71	CD	501	GTP	C5'-O5'-PA-O1A
71	CJ	501	GTP	C5'-O5'-PA-O1A
71	DF	501	GTP	C5'-O5'-PA-O2A
71	DL	501	GTP	C5'-O5'-PA-O1A
71	EE	501	GTP	C5'-O5'-PA-O1A
71	EK	501	GTP	C5'-O5'-PA-O1A
71	FA	501	GTP	C5'-O5'-PA-O2A
71	IM	501	GTP	C5'-O5'-PA-O1A
71	JD	501	GTP	C5'-O5'-PA-O1A
71	JH	501	GTP	C5'-O5'-PA-O3A
71	JH	501	GTP	C5'-O5'-PA-O1A
71	KD	501	GTP	C5'-O5'-PA-O1A
71	LB	501	GTP	C5'-O5'-PA-O1A
71	LD	501	GTP	C5'-O5'-PA-O1A
71	LL	501	GTP	C5'-O5'-PA-O1A
71	ME	501	GTP	C5'-O5'-PA-O1A
71	MG	501	GTP	C5'-O5'-PA-O2A
71	MK	501	GTP	C5'-O5'-PA-O1A
71	MM	501	GTP	C5'-O5'-PA-O3A
71	MM	501	GTP	C5'-O5'-PA-O1A
71	NA	501	GTP	C5'-O5'-PA-O1A
71	NC	501	GTP	C5'-O5'-PA-O1A
71	NG	501	GTP	C5'-O5'-PA-O2A
71	NM	501	GTP	C5'-O5'-PA-O1A
71	OI	501	GTP	C5'-O5'-PA-O1A
71	PG	501	GTP	C5'-O5'-PA-O3A
71	Q	501	GTP	C5'-O5'-PA-O1A
71	QF	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
71	RL	501	GTP	C5'-O5'-PA-O1A
71	SC	501	GTP	C5'-O5'-PA-O2A
71	SG	501	GTP	C5'-O5'-PA-O3A
71	SG	501	GTP	C5'-O5'-PA-O1A
71	TC	501	GTP	C5'-O5'-PA-O3A
71	TK	501	GTP	C5'-O5'-PA-O1A
71	UG	501	GTP	C5'-O5'-PA-O1A
71	VK	501	GTP	C5'-O5'-PA-O1A
71	VM	501	GTP	C5'-O5'-PA-O1A
71	WA	501	GTP	C5'-O5'-PA-O3A
71	WA	501	GTP	C5'-O5'-PA-O1A
71	WC	501	GTP	C5'-O5'-PA-O3A
71	WC	501	GTP	C5'-O5'-PA-O1A
71	WE	501	GTP	C5'-O5'-PA-O1A
71	WM	501	GTP	C5'-O5'-PA-O1A
74	2w	501	ATP	C5'-O5'-PA-O1A
71	AG	501	GTP	C4'-C5'-O5'-PA
71	BE	501	GTP	C4'-C5'-O5'-PA
71	D	501	GTP	C4'-C5'-O5'-PA
71	HA	501	GTP	C4'-C5'-O5'-PA
71	HC	501	GTP	C4'-C5'-O5'-PA
71	IG	501	GTP	C4'-C5'-O5'-PA
71	J	501	GTP	C4'-C5'-O5'-PA
71	JL	501	GTP	C4'-C5'-O5'-PA
71	KJ	501	GTP	C4'-C5'-O5'-PA
71	KN	501	GTP	C4'-C5'-O5'-PA
71	NG	501	GTP	C4'-C5'-O5'-PA
71	OA	501	GTP	C4'-C5'-O5'-PA
71	OM	501	GTP	C4'-C5'-O5'-PA
71	RD	501	GTP	C4'-C5'-O5'-PA
71	RL	501	GTP	C4'-C5'-O5'-PA
71	SC	501	GTP	C4'-C5'-O5'-PA
71	SE	501	GTP	C4'-C5'-O5'-PA
71	TA	501	GTP	C4'-C5'-O5'-PA
71	TC	501	GTP	C4'-C5'-O5'-PA
71	TE	501	GTP	C4'-C5'-O5'-PA
71	UE	501	GTP	C4'-C5'-O5'-PA
71	VE	501	GTP	C4'-C5'-O5'-PA
69	HB	500	GDP	C3'-C4'-C5'-O5'
69	KA	500	GDP	C3'-C4'-C5'-O5'
69	NB	500	GDP	O4'-C4'-C5'-O5'
69	SH	500	GDP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
71	CL	501	GTP	C3'-C4'-C5'-O5'
71	RJ	501	GTP	C3'-C4'-C5'-O5'
69	QK	500	GDP	PB-O3A-PA-O2A
71	CH	501	GTP	PB-O3A-PA-O1A
71	EG	501	GTP	PB-O3A-PA-O1A
71	IK	501	GTP	PG-O3B-PB-O1B
71	J	501	GTP	PG-O3B-PB-O2B
71	RL	501	GTP	PG-O3B-PB-O1B
71	SE	501	GTP	PB-O3A-PA-O2A
69	CC	500	GDP	C3'-C4'-C5'-O5'
69	HF	500	GDP	C3'-C4'-C5'-O5'
69	SJ	500	GDP	C3'-C4'-C5'-O5'
71	FA	501	GTP	C4'-C5'-O5'-PA
71	LD	501	GTP	C4'-C5'-O5'-PA
71	PG	501	GTP	C4'-C5'-O5'-PA
71	J	501	GTP	PA-O3A-PB-O3B
69	BL	500	GDP	C3'-C4'-C5'-O5'
71	QB	501	GTP	O4'-C4'-C5'-O5'
71	AC	501	GTP	C4'-C5'-O5'-PA
71	AM	501	GTP	C4'-C5'-O5'-PA
71	BK	501	GTP	C4'-C5'-O5'-PA
71	CF	501	GTP	C4'-C5'-O5'-PA
71	EA	501	GTP	C4'-C5'-O5'-PA
71	FC	501	GTP	C4'-C5'-O5'-PA
71	JB	501	GTP	C4'-C5'-O5'-PA
71	JN	501	GTP	C4'-C5'-O5'-PA
71	MC	501	GTP	C4'-C5'-O5'-PA
71	TK	501	GTP	C4'-C5'-O5'-PA
71	UK	501	GTP	C4'-C5'-O5'-PA
71	BM	501	GTP	PB-O3B-PG-O1G
71	HC	501	GTP	PB-O3B-PG-O1G
69	IH	500	GDP	C3'-C4'-C5'-O5'
69	OL	500	GDP	O4'-C4'-C5'-O5'
71	IK	501	GTP	PA-O3A-PB-O3B
71	AE	501	GTP	C4'-C5'-O5'-PA
71	FE	501	GTP	C4'-C5'-O5'-PA
71	KB	501	GTP	C4'-C5'-O5'-PA
71	NM	501	GTP	C4'-C5'-O5'-PA
71	QD	501	GTP	C4'-C5'-O5'-PA
71	WK	501	GTP	C4'-C5'-O5'-PA
69	AH	500	GDP	C3'-C4'-C5'-O5'
69	FD	500	GDP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
69	KM	500	GDP	C3'-C4'-C5'-O5'
71	AA	501	GTP	O4'-C4'-C5'-O5'
71	OK	501	GTP	C3'-C4'-C5'-O5'
71	PG	501	GTP	O4'-C4'-C5'-O5'
71	PK	501	GTP	C3'-C4'-C5'-O5'
71	TC	501	GTP	O4'-C4'-C5'-O5'
71	TI	501	GTP	C3'-C4'-C5'-O5'
71	VM	501	GTP	O4'-C4'-C5'-O5'
71	BI	501	GTP	PB-O3A-PA-O1A
71	EA	501	GTP	PG-O3B-PB-O1B
71	IK	501	GTP	PA-O3A-PB-O1B
71	OK	501	GTP	PA-O3A-PB-O1B
71	OM	501	GTP	PG-O3B-PB-O1B
71	R	501	GTP	PG-O3B-PB-O1B
71	WE	501	GTP	PG-O3B-PB-O1B
71	TK	501	GTP	PB-O3A-PA-O5'
71	CL	501	GTP	C4'-C5'-O5'-PA
71	HE	501	GTP	C4'-C5'-O5'-PA
71	HM	501	GTP	C4'-C5'-O5'-PA
71	IA	501	GTP	C4'-C5'-O5'-PA
71	IM	501	GTP	C4'-C5'-O5'-PA
71	L	501	GTP	C4'-C5'-O5'-PA
71	OE	501	GTP	C4'-C5'-O5'-PA
71	R	501	GTP	C4'-C5'-O5'-PA
71	SA	501	GTP	C4'-C5'-O5'-PA
71	VI	501	GTP	C4'-C5'-O5'-PA
71	VK	501	GTP	C4'-C5'-O5'-PA
74	2v	501	ATP	O4'-C1'-N9-C8
69	AD	500	GDP	C3'-C4'-C5'-O5'
69	E	500	GDP	C3'-C4'-C5'-O5'
69	HD	500	GDP	O4'-C4'-C5'-O5'
69	JG	500	GDP	O4'-C4'-C5'-O5'
69	LA	500	GDP	C3'-C4'-C5'-O5'
69	LO	500	GDP	C3'-C4'-C5'-O5'
69	MF	500	GDP	O4'-C4'-C5'-O5'
71	BA	501	GTP	C3'-C4'-C5'-O5'
71	C	501	GTP	C4'-C5'-O5'-PA
71	HK	501	GTP	C4'-C5'-O5'-PA
71	LL	501	GTP	C4'-C5'-O5'-PA
71	PK	501	GTP	C4'-C5'-O5'-PA
71	UA	501	GTP	C4'-C5'-O5'-PA
71	WE	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
69	EL	500	GDP	C3'-C4'-C5'-O5'
69	JC	500	GDP	C3'-C4'-C5'-O5'
69	KI	500	GDP	O4'-C4'-C5'-O5'
69	MN	500	GDP	C3'-C4'-C5'-O5'
69	NF	500	GDP	O4'-C4'-C5'-O5'
71	JD	501	GTP	O4'-C4'-C5'-O5'
71	EA	501	GTP	PB-O3B-PG-O1G
71	SG	501	GTP	PB-O3B-PG-O1G
69	E	500	GDP	PA-O3A-PB-O2B
71	BM	501	GTP	PB-O3B-PG-O2G
71	BM	501	GTP	PB-O3B-PG-O3G
71	C	501	GTP	PB-O3B-PG-O2G
71	CH	501	GTP	PB-O3B-PG-O2G
71	DJ	501	GTP	PB-O3B-PG-O2G
71	DL	501	GTP	PB-O3B-PG-O2G
71	EA	501	GTP	PB-O3B-PG-O2G
71	HC	501	GTP	PB-O3B-PG-O2G
71	HC	501	GTP	PB-O3B-PG-O3G
71	KF	501	GTP	PB-O3B-PG-O2G
71	KF	501	GTP	PB-O3B-PG-O3G
71	KH	501	GTP	PB-O3B-PG-O2G
71	QD	501	GTP	PB-O3B-PG-O2G
71	TA	501	GTP	PB-O3B-PG-O2G
71	TA	501	GTP	PB-O3B-PG-O3G
71	VC	501	GTP	PB-O3B-PG-O2G
71	VC	501	GTP	PB-O3B-PG-O3G
71	EC	501	GTP	C4'-C5'-O5'-PA
71	KH	501	GTP	C4'-C5'-O5'-PA
71	MI	501	GTP	C4'-C5'-O5'-PA
71	QJ	501	GTP	C4'-C5'-O5'-PA
69	MB	500	GDP	C3'-C4'-C5'-O5'
69	QE	500	GDP	C3'-C4'-C5'-O5'
69	RK	500	GDP	C3'-C4'-C5'-O5'
71	LD	501	GTP	O4'-C4'-C5'-O5'
69	A	500	GDP	C3'-C4'-C5'-O5'
69	AL	500	GDP	C3'-C4'-C5'-O5'
69	FF	500	GDP	C3'-C4'-C5'-O5'
69	GL	500	GDP	O4'-C4'-C5'-O5'
69	OD	500	GDP	C3'-C4'-C5'-O5'
71	FG	501	GTP	C3'-C4'-C5'-O5'
71	MK	501	GTP	C3'-C4'-C5'-O5'
71	NK	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
71	OC	501	GTP	C3'-C4'-C5'-O5'
71	WK	501	GTP	C3'-C4'-C5'-O5'
71	AG	501	GTP	PA-O3A-PB-O2B
71	EG	501	GTP	PB-O3A-PA-O2A
71	FG	501	GTP	PB-O3A-PA-O2A
71	GA	501	GTP	PA-O3A-PB-O1B
71	IG	501	GTP	PA-O3A-PB-O2B
71	II	501	GTP	PB-O3A-PA-O2A
71	J	501	GTP	PA-O3A-PB-O1B
71	NG	501	GTP	PB-O3A-PA-O2A
71	NI	501	GTP	PB-O3A-PA-O2A
71	TG	501	GTP	PB-O3A-PA-O2A
71	VG	501	GTP	PB-O3A-PA-O2A
71	WG	501	GTP	PG-O3B-PB-O2B
71	J	501	GTP	C3'-C4'-C5'-O5'
74	2v	501	ATP	C2'-C1'-N9-C4
71	D	501	GTP	PB-O3B-PG-O1G
69	FL	500	GDP	O4'-C4'-C5'-O5'
69	HB	500	GDP	O4'-C4'-C5'-O5'
69	HF	500	GDP	O4'-C4'-C5'-O5'
69	LM	500	GDP	C3'-C4'-C5'-O5'
69	SB	500	GDP	O4'-C4'-C5'-O5'
71	CL	501	GTP	O4'-C4'-C5'-O5'
71	D	501	GTP	O4'-C4'-C5'-O5'
71	MC	501	GTP	C3'-C4'-C5'-O5'
71	RL	501	GTP	O4'-C4'-C5'-O5'
69	OB	500	GDP	C3'-C4'-C5'-O5'
71	BI	501	GTP	PB-O3A-PA-O2A
71	D	501	GTP	PG-O3B-PB-O2B
71	EG	501	GTP	PA-O3A-PB-O2B
71	GA	501	GTP	PA-O3A-PB-O2B
71	GE	501	GTP	PB-O3A-PA-O1A
71	J	501	GTP	PG-O3B-PB-O1B
71	LH	501	GTP	PB-O3A-PA-O2A
71	MG	501	GTP	PG-O3B-PB-O2B
71	UE	501	GTP	PA-O3A-PB-O2B
74	2w	501	ATP	PA-O3A-PB-O2B
69	BL	500	GDP	O4'-C4'-C5'-O5'
69	DM	500	GDP	C3'-C4'-C5'-O5'
69	FJ	500	GDP	C3'-C4'-C5'-O5'
69	KA	500	GDP	O4'-C4'-C5'-O5'
69	LG	500	GDP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
69	NH	500	GDP	C3'-C4'-C5'-O5'
69	P	500	GDP	C3'-C4'-C5'-O5'

There are no ring outliers.

264 monomers are involved in 509 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
69	NB	500	GDP	4	0
71	SE	501	GTP	1	0
71	TG	501	GTP	2	0
71	QH	501	GTP	3	0
71	JH	501	GTP	1	0
69	IB	500	GDP	2	0
71	ME	501	GTP	2	0
69	WL	500	GDP	2	0
69	PH	500	GDP	3	0
71	WG	501	GTP	4	0
71	GA	501	GTP	1	0
69	FF	500	GDP	2	0
69	OL	500	GDP	2	0
69	PB	500	GDP	2	0
69	NH	500	GDP	1	0
69	RA	500	GDP	3	0
71	LJ	501	GTP	2	0
71	UK	501	GTP	1	0
71	RL	501	GTP	2	0
69	AB	500	GDP	3	0
69	MB	500	GDP	3	0
69	PF	500	GDP	2	0
69	NJ	500	GDP	2	0
71	II	501	GTP	2	0
69	AF	500	GDP	3	0
69	HF	500	GDP	1	0
69	KK	500	GDP	5	0
69	UF	500	GDP	1	0
69	DG	500	GDP	2	0
69	AN	500	GDP	3	0
71	QJ	501	GTP	1	0
69	WD	500	GDP	1	0
69	GF	500	GDP	4	0
71	IM	501	GTP	1	0
71	WM	501	GTP	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
69	KC	500	GDP	1	0
71	RF	501	GTP	3	0
69	LG	500	GDP	2	0
71	LH	501	GTP	2	0
69	H	500	GDP	1	0
71	NE	501	GTP	1	0
71	AG	501	GTP	1	0
71	DB	501	GTP	2	0
71	PK	501	GTP	2	0
71	DJ	501	GTP	1	0
71	SI	501	GTP	2	0
69	LI	500	GDP	3	0
69	CC	500	GDP	1	0
71	MG	501	GTP	2	0
69	KA	500	GDP	1	0
69	ID	500	GDP	2	0
69	WJ	500	GDP	3	0
69	HJ	500	GDP	2	0
71	FA	501	GTP	2	0
71	JF	501	GTP	1	0
71	TI	501	GTP	4	0
69	AH	500	GDP	3	0
69	EL	500	GDP	3	0
71	L	501	GTP	1	0
69	W	500	GDP	1	0
69	OF	500	GDP	1	0
71	VG	501	GTP	1	0
71	SK	501	GTP	2	0
71	OG	501	GTP	1	0
71	KD	501	GTP	1	0
71	KL	501	GTP	1	0
71	QF	501	GTP	2	0
69	JM	500	GDP	1	0
69	M	500	GDP	2	0
71	JJ	501	GTP	1	0
69	FH	500	GDP	1	0
71	R	501	GTP	3	0
71	EG	501	GTP	1	0
71	IE	501	GTP	2	0
71	BG	501	GTP	4	0
69	U	500	GDP	1	0
71	IK	501	GTP	3	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
71	GK	501	GTP	1	0
69	ML	500	GDP	2	0
69	QI	500	GDP	2	0
69	LC	500	GDP	3	0
71	VE	501	GTP	1	0
69	GH	500	GDP	1	0
71	RJ	501	GTP	1	0
71	LF	501	GTP	1	0
69	MF	500	GDP	6	0
71	IC	501	GTP	2	0
69	LK	500	GDP	1	0
71	BM	501	GTP	4	0
69	IL	500	GDP	1	0
71	LL	501	GTP	1	0
69	LM	500	GDP	1	0
69	BH	500	GDP	2	0
71	D	501	GTP	5	0
71	RD	501	GTP	3	0
69	CI	500	GDP	1	0
71	LB	501	GTP	1	0
69	GJ	500	GDP	1	0
71	UA	501	GTP	1	0
69	JA	500	GDP	2	0
71	NG	501	GTP	1	0
71	UI	501	GTP	2	0
69	DI	500	GDP	3	0
71	OA	501	GTP	3	0
69	QG	500	GDP	2	0
69	CA	500	GDP	2	0
71	HM	501	GTP	3	0
71	AA	501	GTP	2	0
71	MI	501	GTP	2	0
69	JG	500	GDP	1	0
69	SD	500	GDP	1	0
69	KG	500	GDP	3	0
69	VJ	500	GDP	3	0
71	KF	501	GTP	2	0
69	DM	500	GDP	2	0
71	CB	501	GTP	2	0
69	HL	500	GDP	4	0
69	KE	500	GDP	2	0
69	BB	500	GDP	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
71	UG	501	GTP	2	0
71	OM	501	GTP	1	0
69	JC	500	GDP	2	0
69	RI	500	GDP	3	0
71	LN	501	GTP	1	0
69	JI	500	GDP	3	0
69	OH	500	GDP	1	0
69	MJ	500	GDP	3	0
71	EE	501	GTP	1	0
69	JE	500	GDP	1	0
69	IH	500	GDP	1	0
69	DK	500	GDP	4	0
69	AD	500	GDP	1	0
69	QK	500	GDP	7	0
69	DC	500	GDP	3	0
69	E	500	GDP	1	0
71	HI	501	GTP	2	0
69	WH	500	GDP	3	0
69	CM	500	GDP	3	0
71	TE	501	GTP	1	0
69	F	500	GDP	1	0
69	OB	500	GDP	5	0
71	CH	501	GTP	3	0
69	RK	500	GDP	1	0
69	LE	500	GDP	3	0
69	NF	500	GDP	2	0
71	AC	501	GTP	2	0
71	PE	501	GTP	5	0
69	FL	500	GDP	1	0
71	RB	501	GTP	1	0
69	MN	500	GDP	2	0
71	BC	501	GTP	1	0
71	WK	501	GTP	1	0
71	QB	501	GTP	1	0
69	EF	500	GDP	1	0
71	MC	501	GTP	1	0
69	UB	500	GDP	1	0
69	I	500	GDP	4	0
69	ED	500	GDP	1	0
69	T	500	GDP	1	0
71	VC	501	GTP	1	0
69	DE	500	GDP	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
69	CK	500	GDP	1	0
69	IJ	500	GDP	1	0
71	VM	501	GTP	3	0
71	BE	501	GTP	2	0
69	CG	500	GDP	3	0
69	TB	500	GDP	1	0
69	JK	500	GDP	1	0
71	GC	501	GTP	4	0
71	RH	501	GTP	3	0
69	BD	500	GDP	1	0
69	O	500	GDP	3	0
69	EJ	500	GDP	1	0
71	FK	501	GTP	1	0
71	QL	501	GTP	2	0
69	FB	500	GDP	2	0
71	PI	501	GTP	3	0
71	TK	501	GTP	1	0
71	KH	501	GTP	2	0
69	QA	500	GDP	2	0
71	EI	501	GTP	2	0
69	QC	500	GDP	2	0
69	GB	500	GDP	3	0
69	HH	500	GDP	3	0
69	BL	500	GDP	1	0
71	K	501	GTP	2	0
69	HB	500	GDP	1	0
69	VF	500	GDP	1	0
71	NK	501	GTP	2	0
69	NL	500	GDP	3	0
69	P	500	GDP	7	0
71	GE	501	GTP	1	0
69	VD	500	GDP	1	0
71	HE	501	GTP	1	0
69	UD	500	GDP	3	0
71	PC	501	GTP	2	0
71	KN	501	GTP	1	0
71	IA	501	GTP	1	0
69	AJ	500	GDP	2	0
71	JB	501	GTP	1	0
71	HA	501	GTP	1	0
71	BK	501	GTP	1	0
71	PM	501	GTP	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
71	NA	501	GTP	1	0
71	DD	501	GTP	3	0
71	AK	501	GTP	1	0
71	JL	501	GTP	2	0
69	KI	500	GDP	2	0
69	VL	500	GDP	3	0
69	MD	500	GDP	2	0
69	OD	500	GDP	2	0
71	AM	501	GTP	1	0
71	NM	501	GTP	1	0
69	EH	500	GDP	2	0
71	GI	501	GTP	5	0
69	UL	500	GDP	3	0
69	QE	500	GDP	1	0
71	WI	501	GTP	3	0
71	PG	501	GTP	4	0
69	RC	500	GDP	2	0
69	WF	500	GDP	1	0
69	GL	500	GDP	1	0
71	GG	501	GTP	3	0
71	HG	501	GTP	1	0
71	VA	501	GTP	1	0
69	VH	500	GDP	1	0
69	ND	500	GDP	3	0
69	LO	500	GDP	3	0
69	TD	500	GDP	2	0
71	CJ	501	GTP	1	0
71	OC	501	GTP	5	0
69	WB	500	GDP	1	0
69	A	500	GDP	1	0
71	HK	501	GTP	2	0
74	2v	501	ATP	1	0
71	SG	501	GTP	1	0
71	KJ	501	GTP	1	0
71	DL	501	GTP	2	0
69	SH	500	GDP	2	0
69	PD	500	GDP	1	0
69	TF	500	GDP	1	0
69	V	500	GDP	2	0
69	DA	500	GDP	1	0
69	N	500	GDP	3	0
69	EB	500	GDP	2	0

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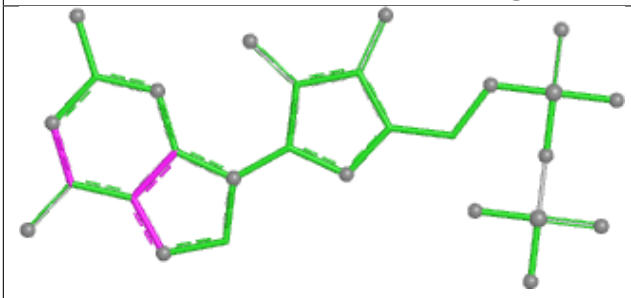
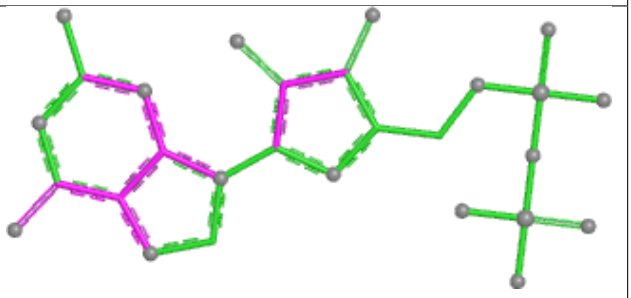
Mol	Chain	Res	Type	Clashes	Symm-Clashes
69	AL	500	GDP	2	0
71	NC	501	GTP	1	0
71	AE	501	GTP	1	0
71	UC	501	GTP	2	0
69	OJ	500	GDP	1	0
69	PL	500	GDP	2	0
69	TJ	500	GDP	1	0
69	FD	500	GDP	1	0
71	PA	501	GTP	1	0
69	CE	500	GDP	2	0
69	SF	500	GDP	3	0
71	VK	501	GTP	1	0
69	HD	500	GDP	2	0
69	TL	500	GDP	3	0
69	KM	500	GDP	1	0
69	TH	500	GDP	1	0
71	JN	501	GTP	1	0
71	KB	501	GTP	1	0
69	S	500	GDP	1	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

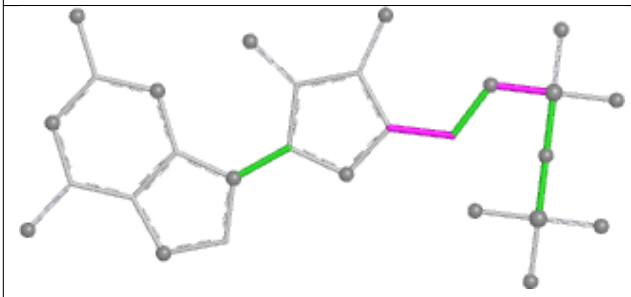
Ligand GDP NB 500



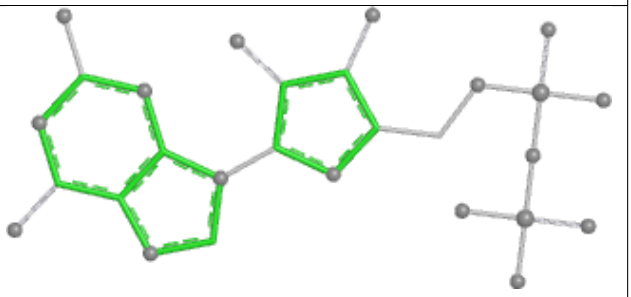
Bond lengths



Bond angles

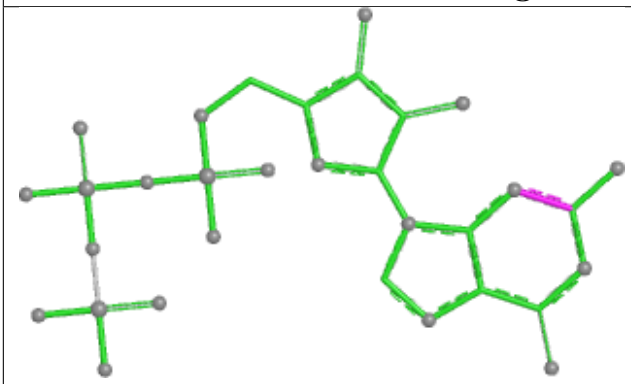


Torsions

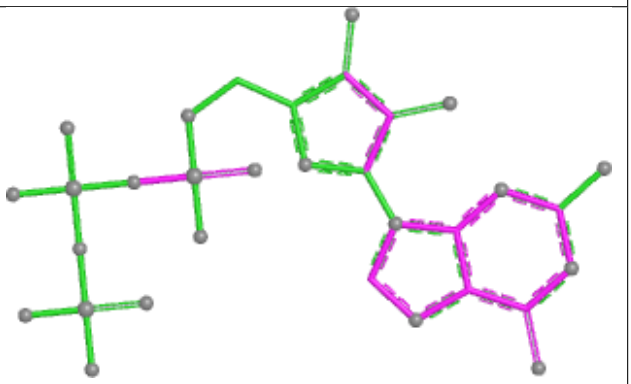


Rings

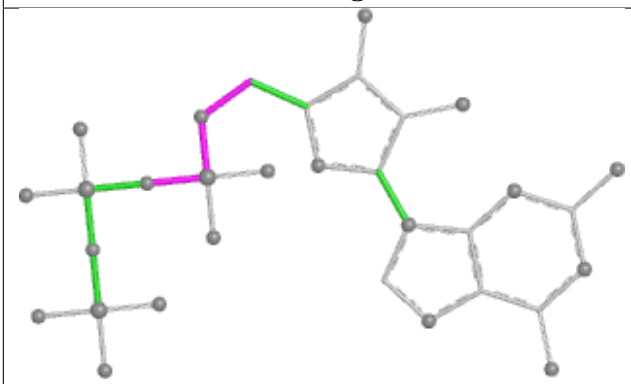
Ligand GTP SE 501



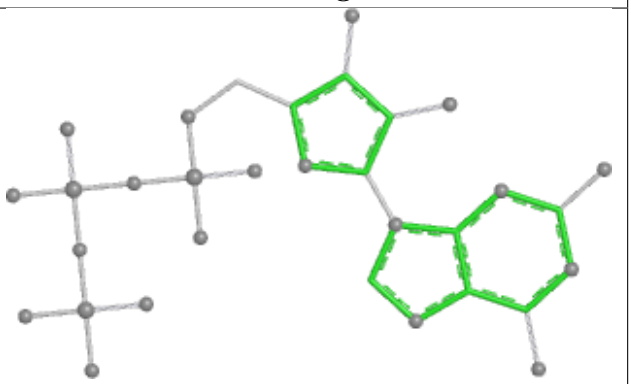
Bond lengths



Bond angles

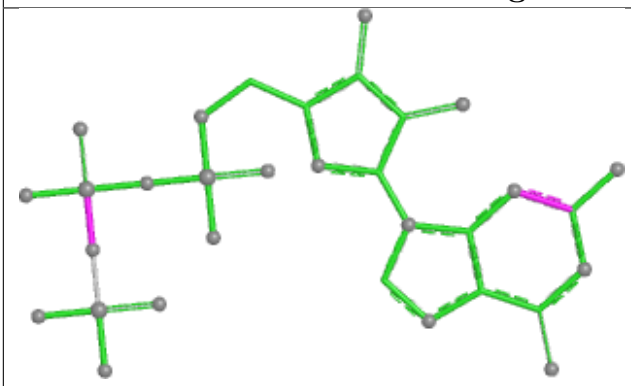


Torsions

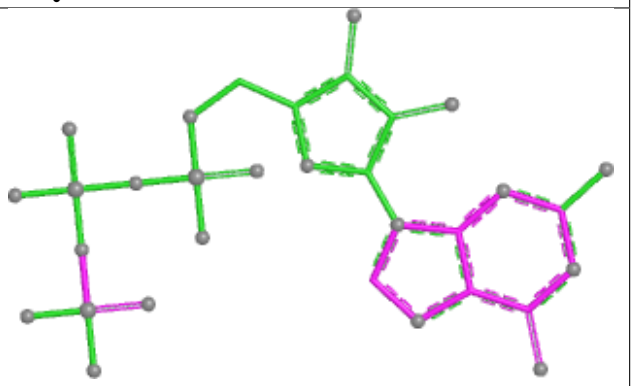


Rings

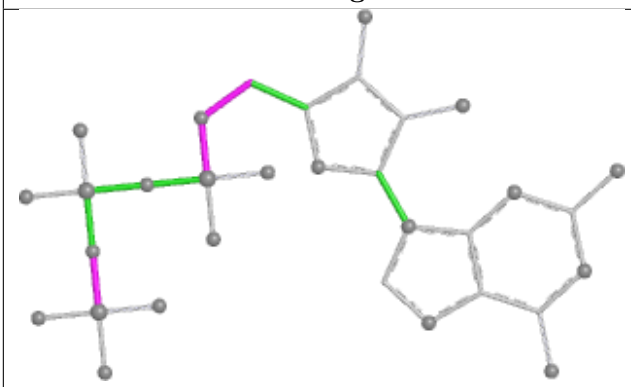
Ligand GTP QD 501



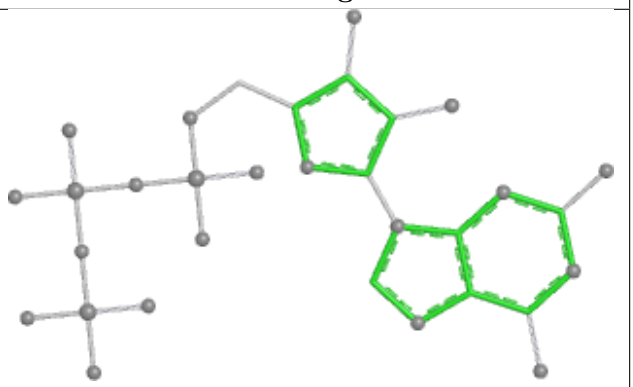
Bond lengths



Bond angles

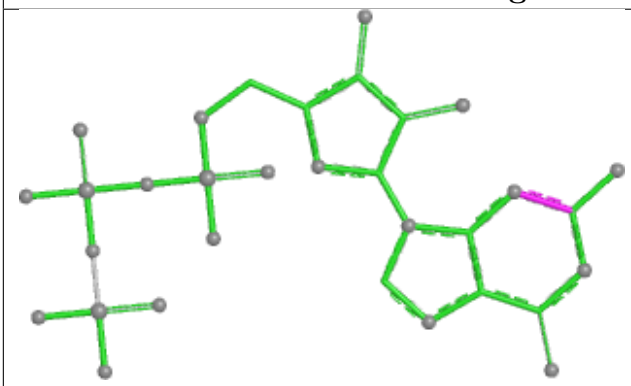


Torsions



Rings

Ligand GTP TG 501



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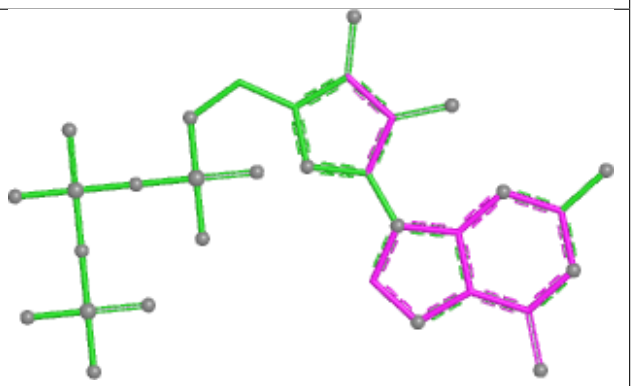
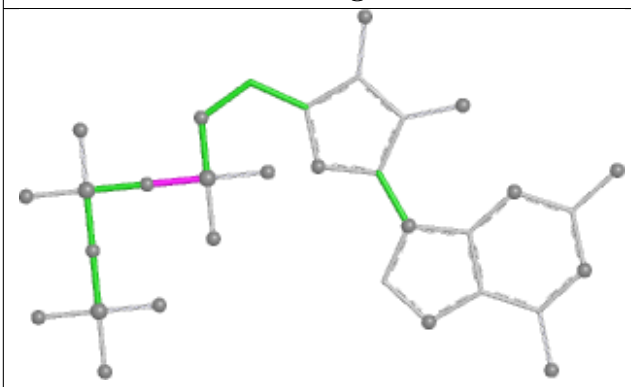


Bond angles



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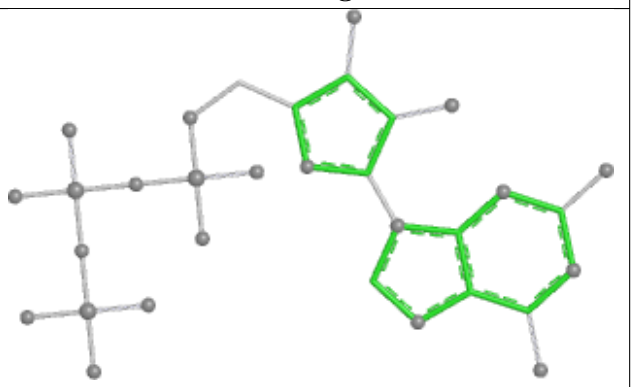
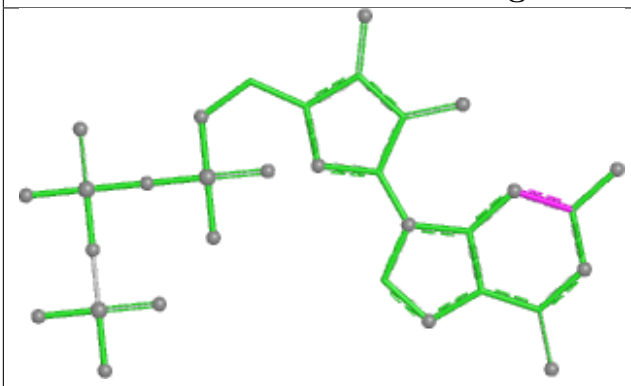


Rings

Ligand GTP QH 501



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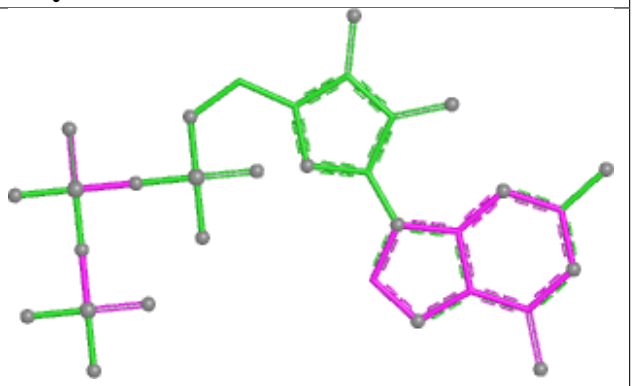

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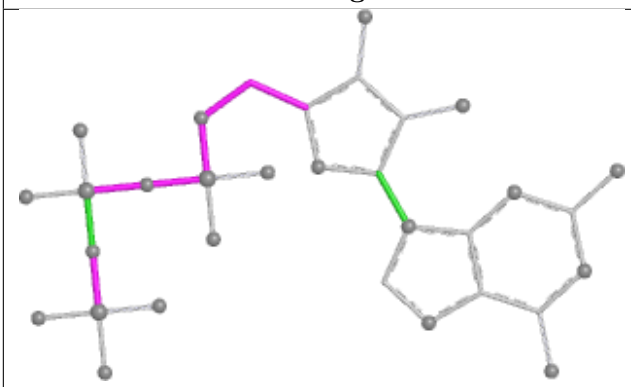

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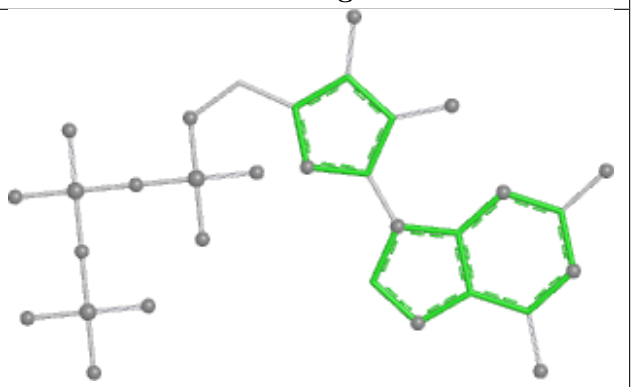
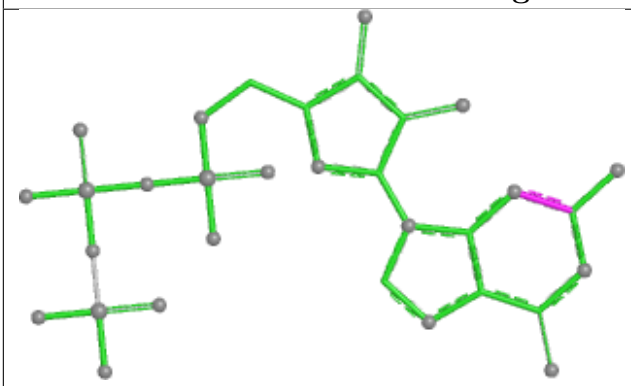


Rings

Ligand GTP JH 501



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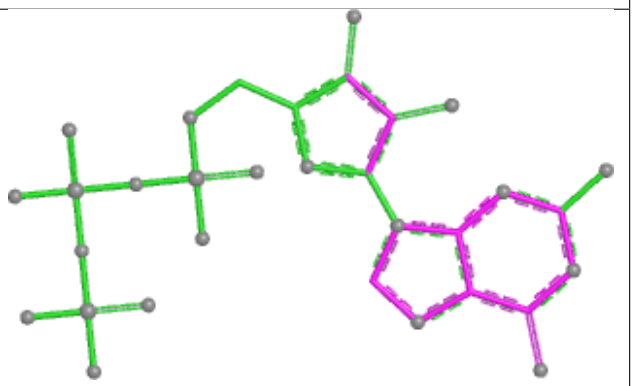

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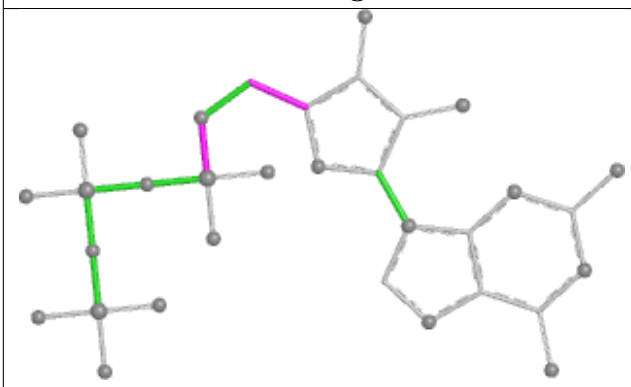

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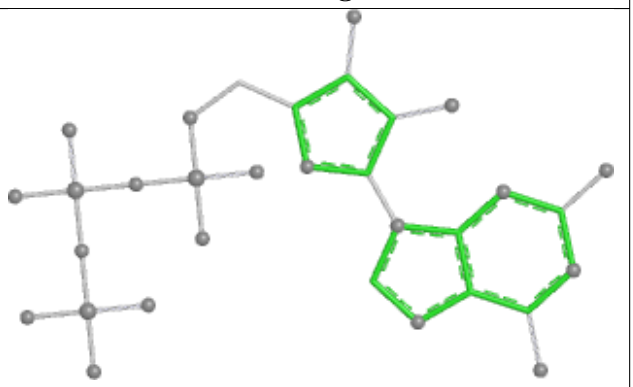
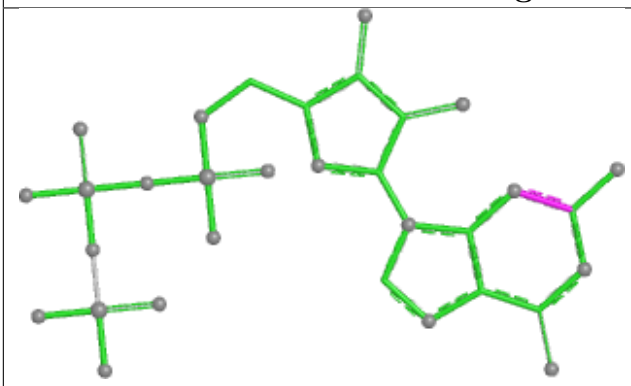


Rings

Ligand GTP IG 501



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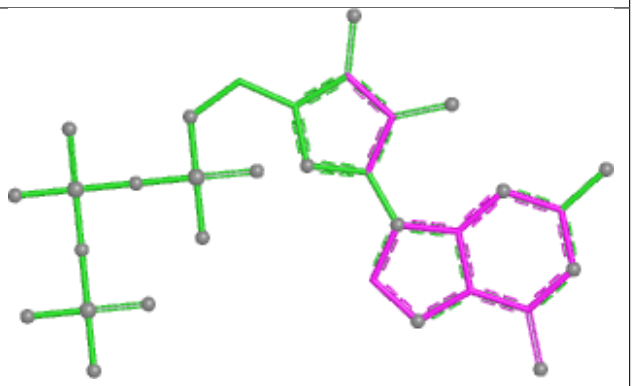

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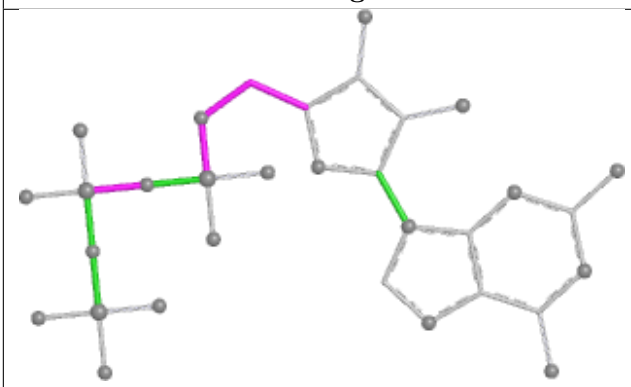

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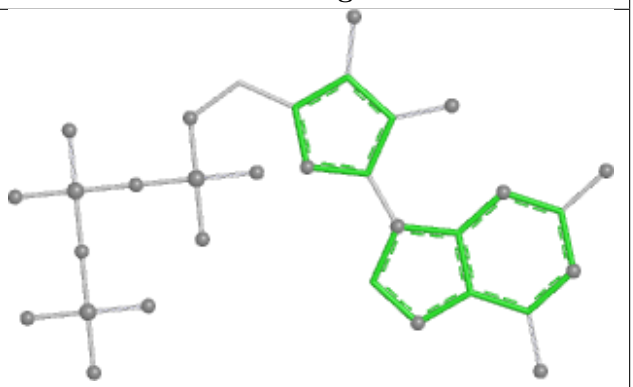
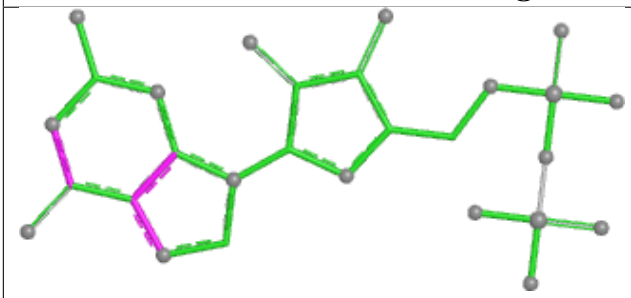


Rings

Ligand GDP IB 500



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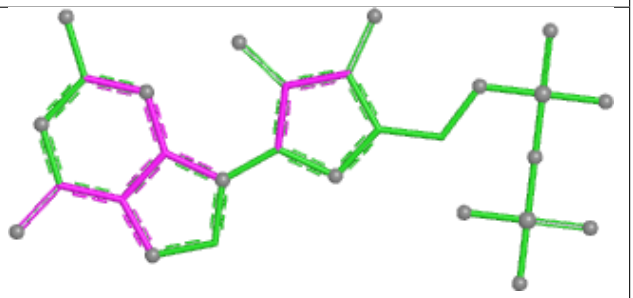

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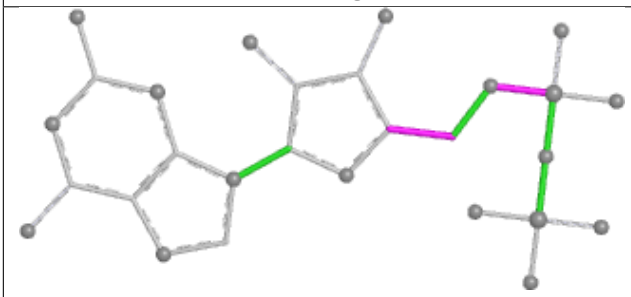

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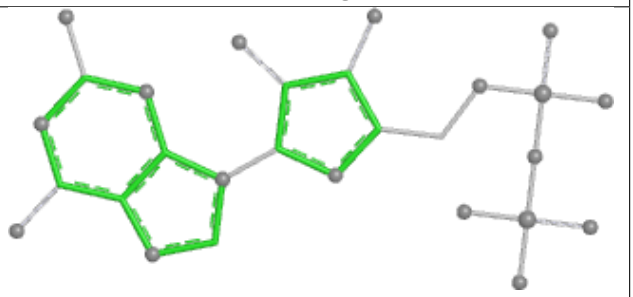

Rings

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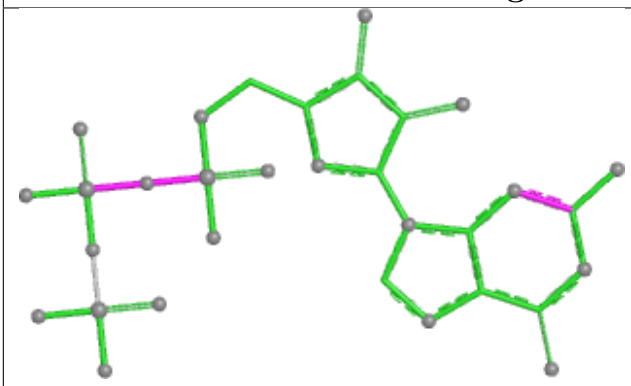

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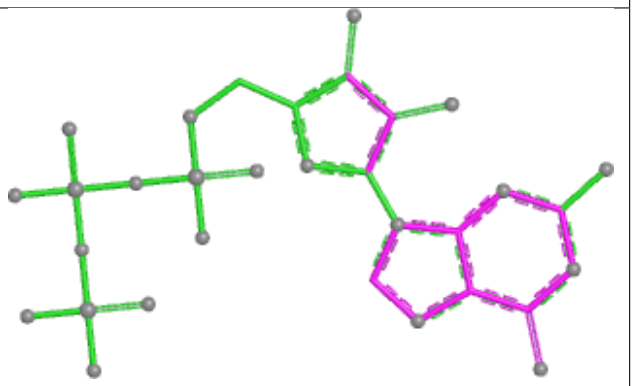

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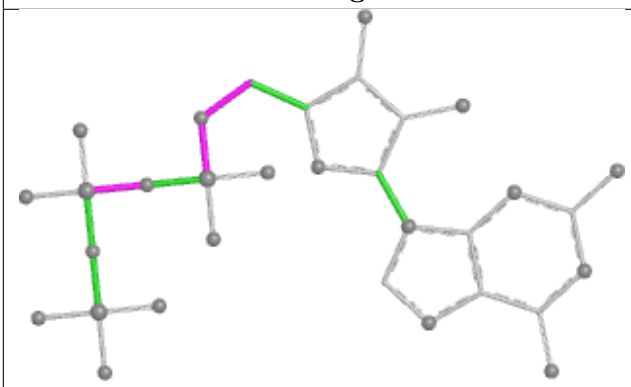

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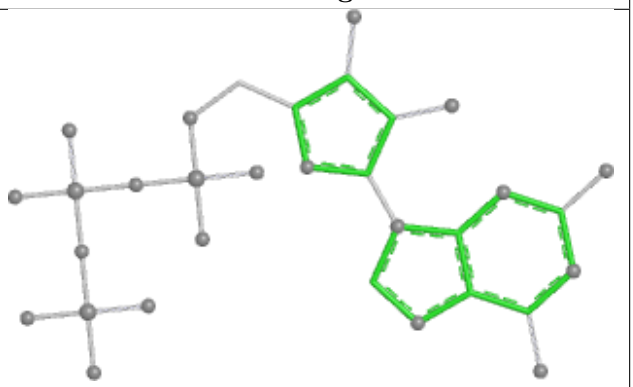
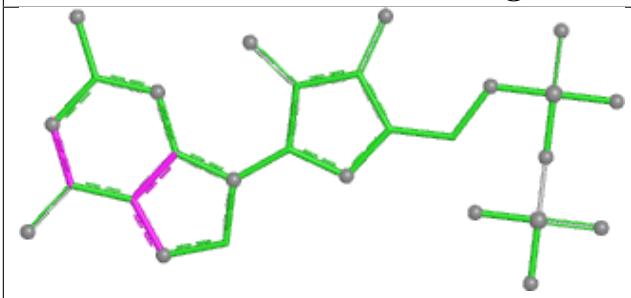


Rings

Ligand GDP WL 500



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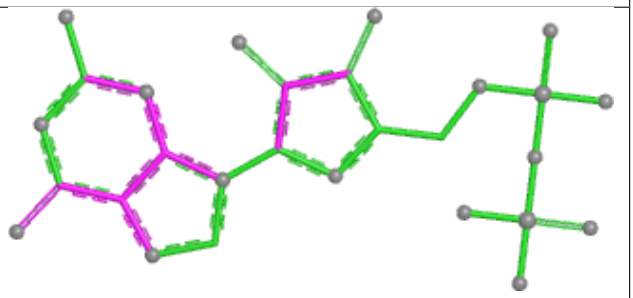

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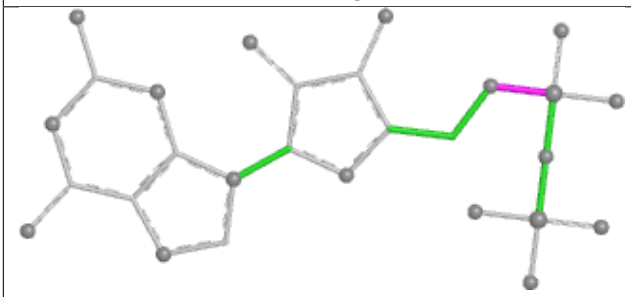

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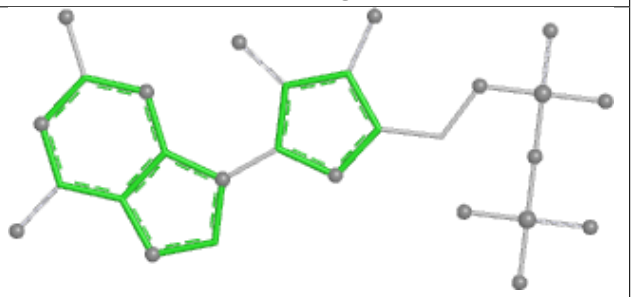
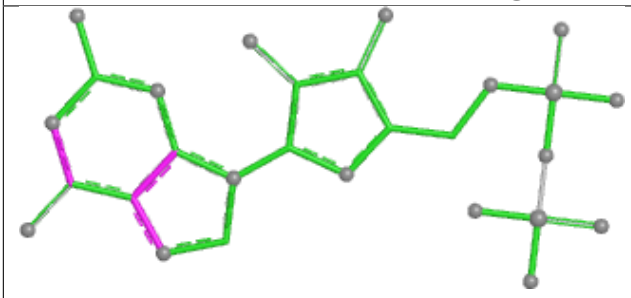


Rings

Ligand GDP PH 500



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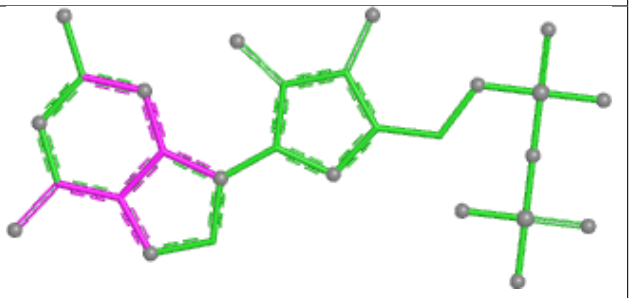

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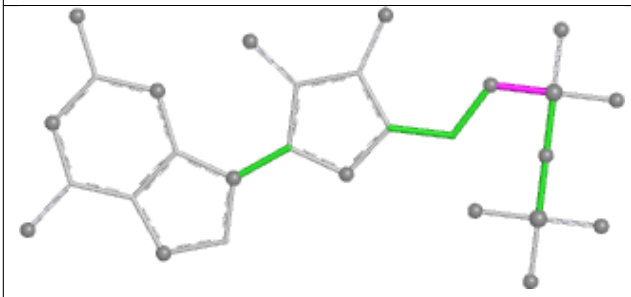

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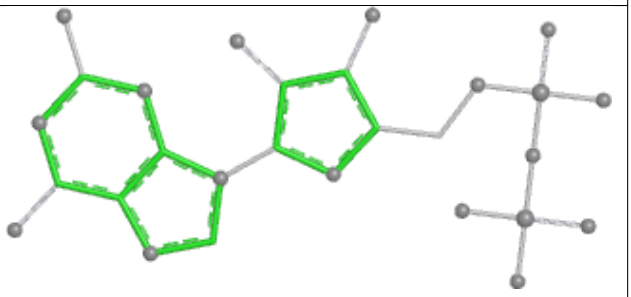
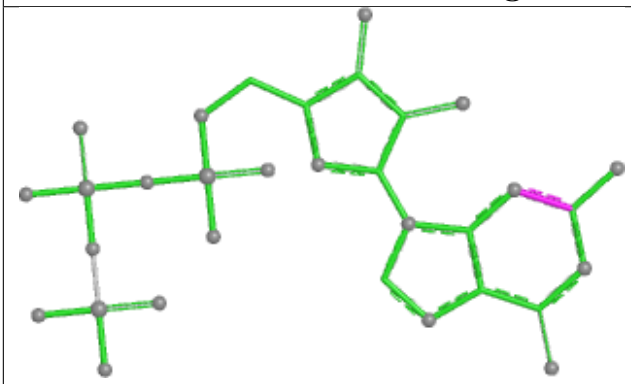


Rings

Ligand GTP WG 501



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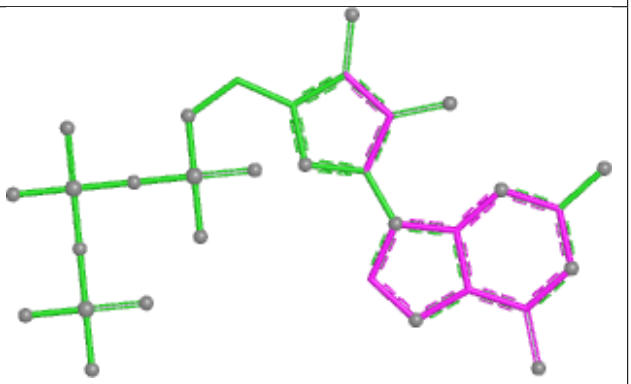

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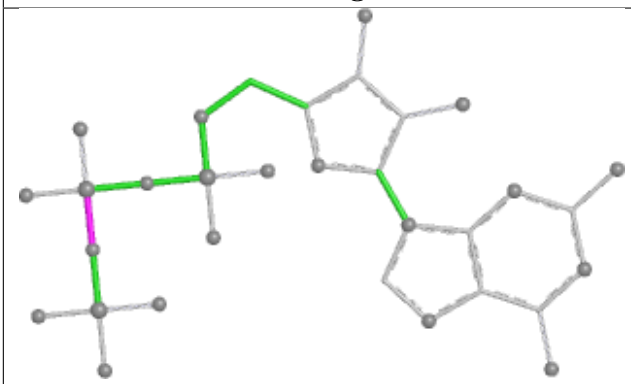

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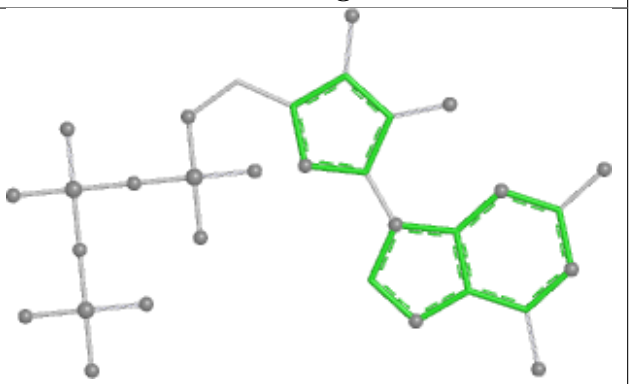
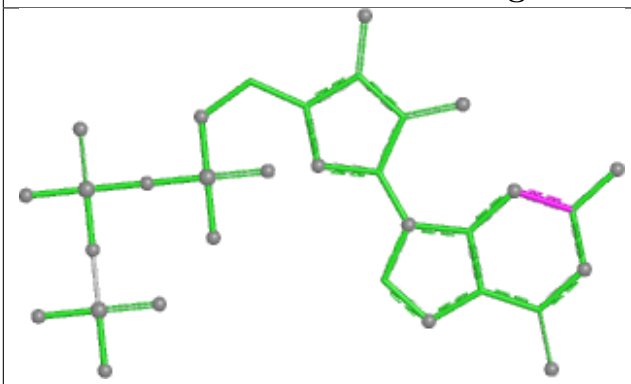


Rings

Ligand GTP GA 501



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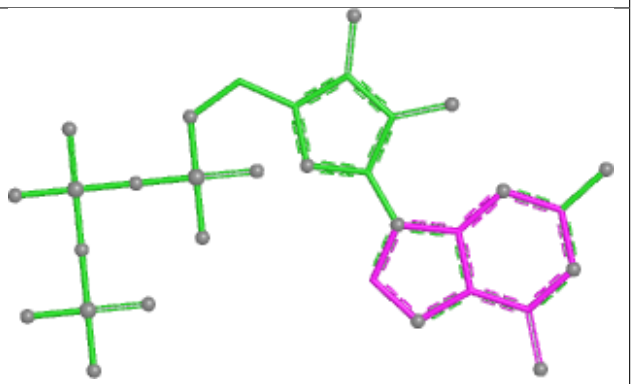

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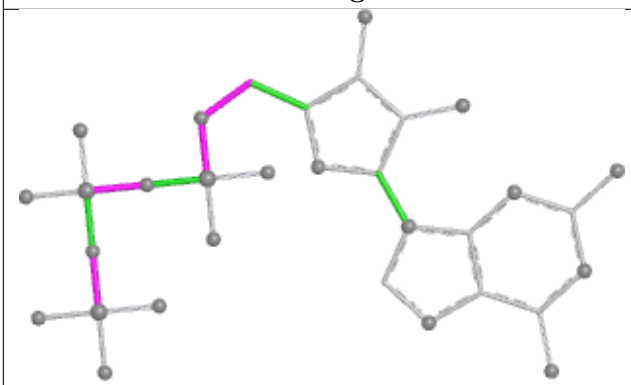

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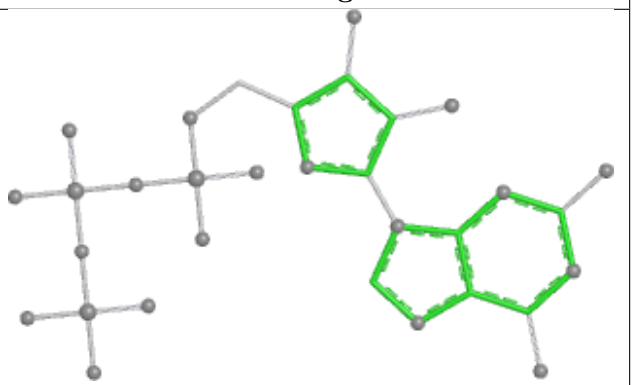
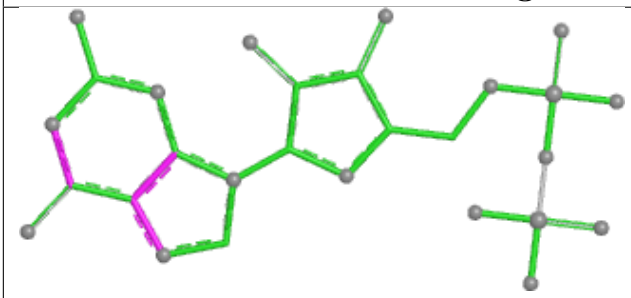


Rings

Ligand GDP IF 500



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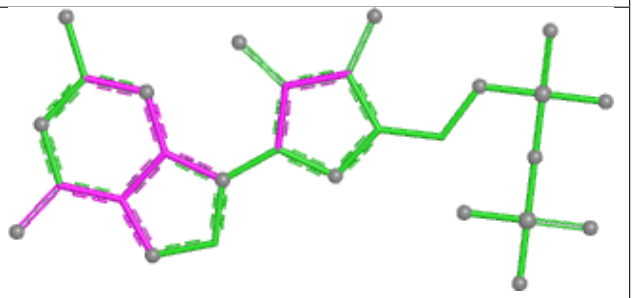

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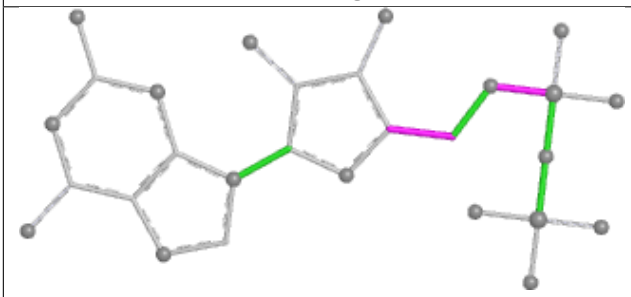

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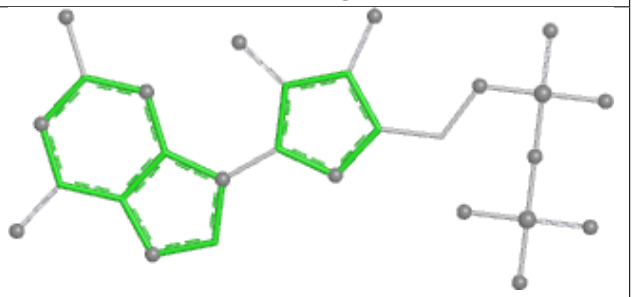
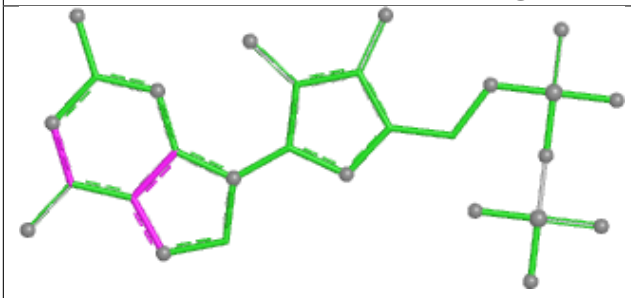


Rings

Ligand GDP FF 500



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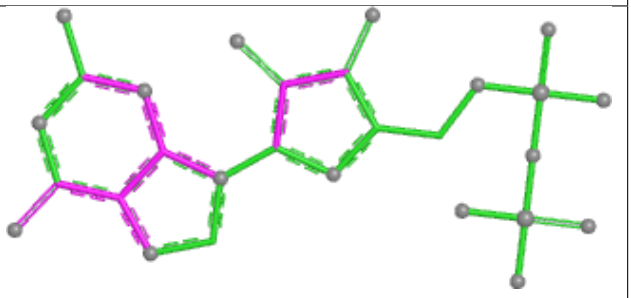
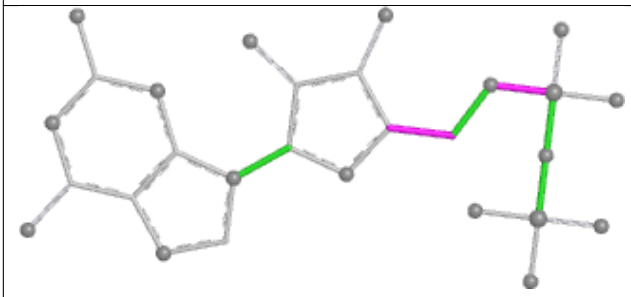


Bond angles



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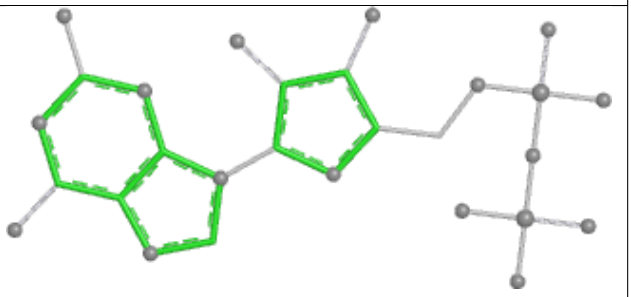
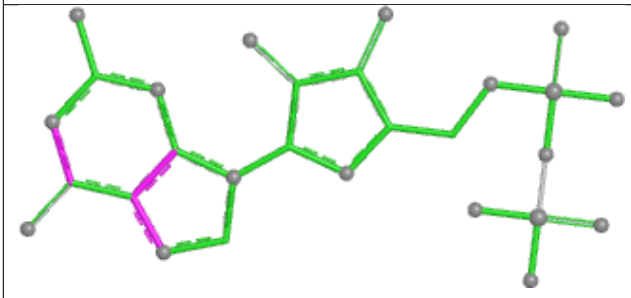


Rings

Ligand GDP OL 500



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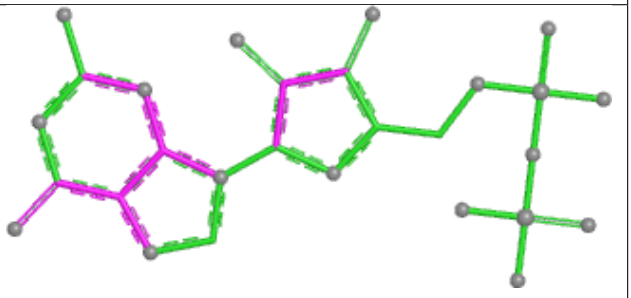
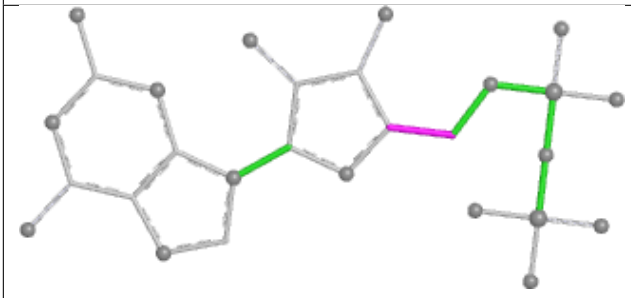


Bond angles



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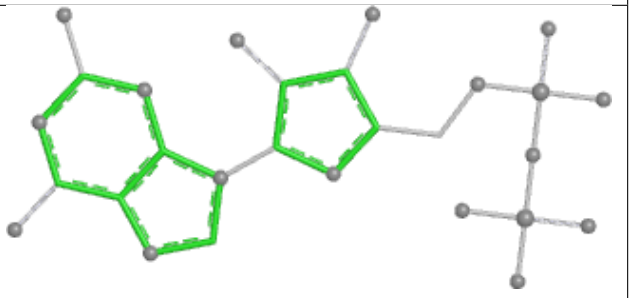
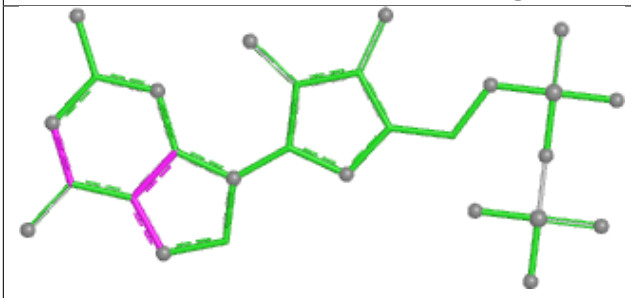


Rings

Ligand GDP PB 500



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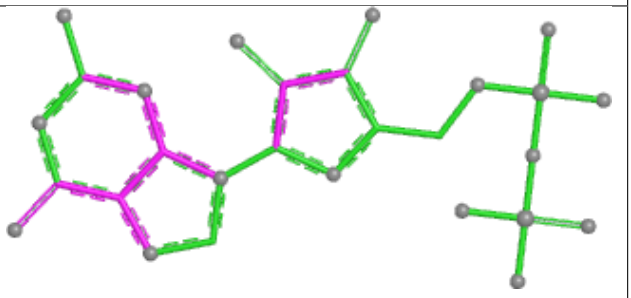
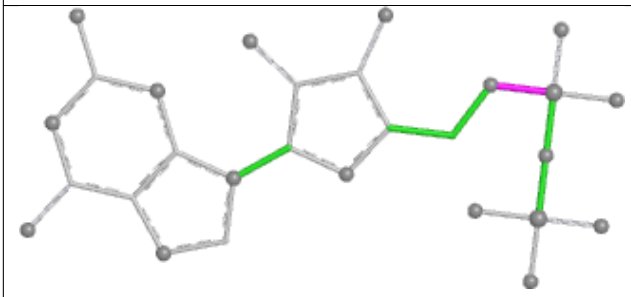
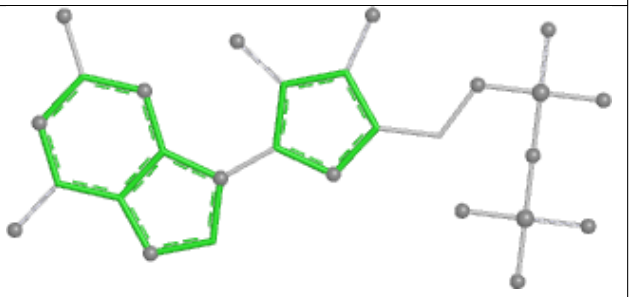


Bond angles

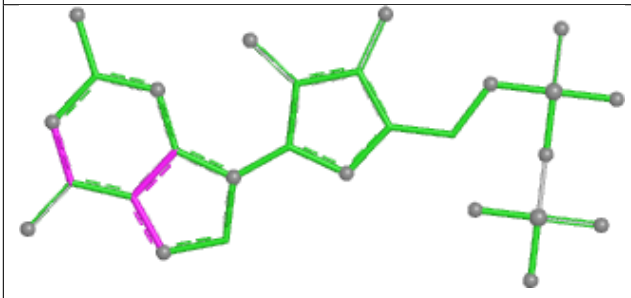


Torsions



Rings

Ligand GDP UH 500



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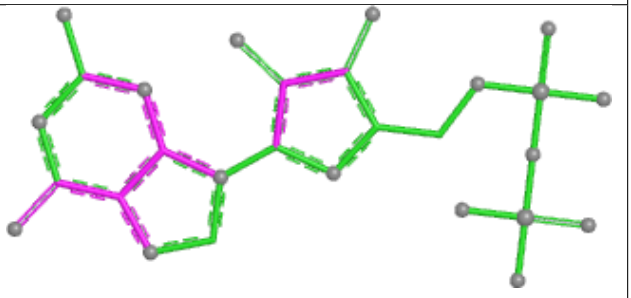
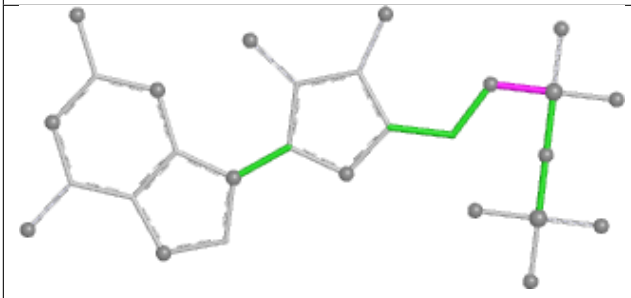


Bond angles



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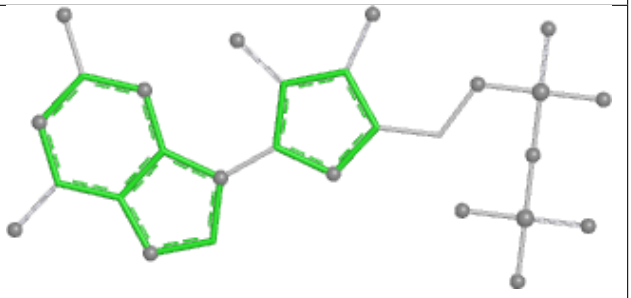
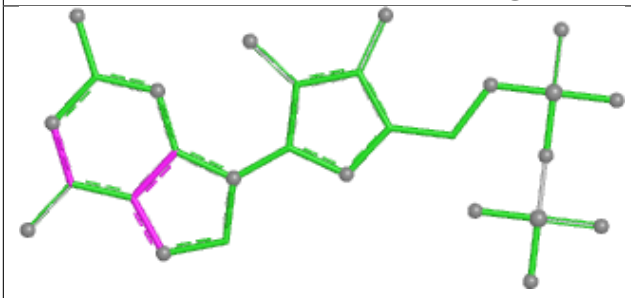


Rings

Ligand GDP NH 500



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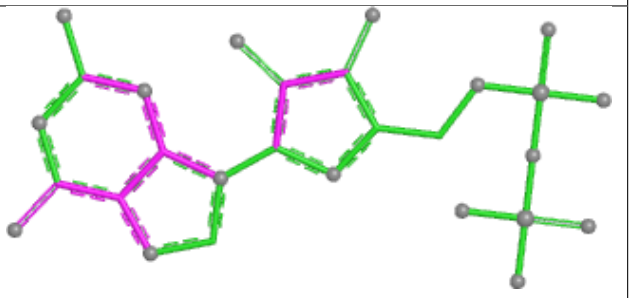

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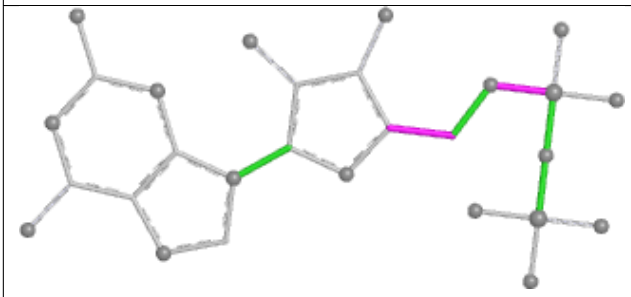

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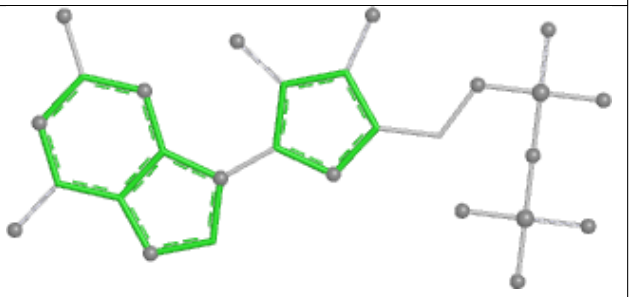
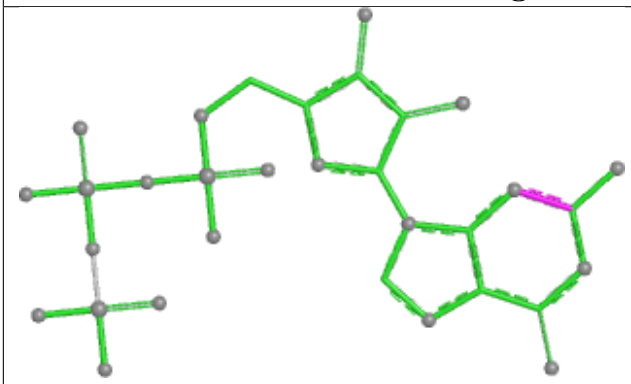


Rings

Ligand GTP UE 501



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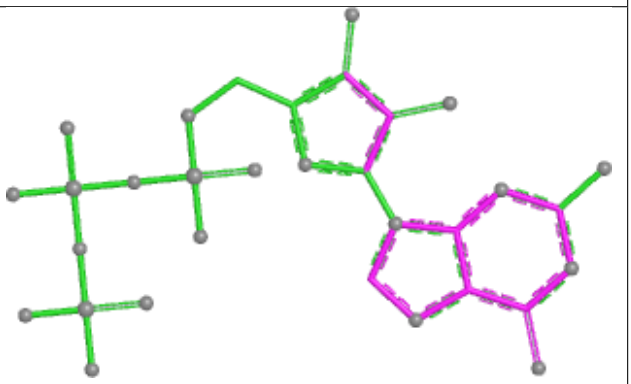

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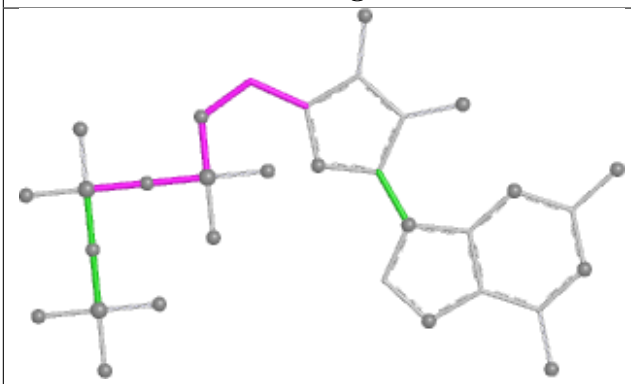

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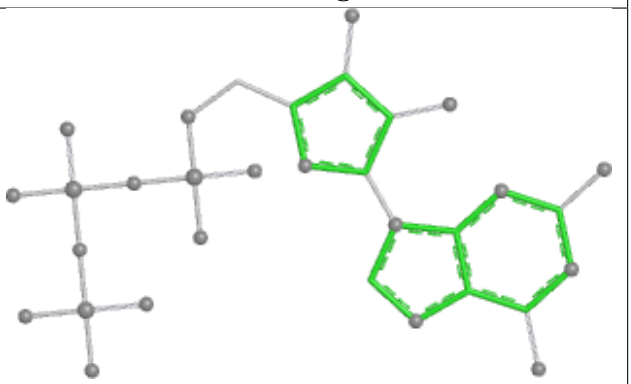
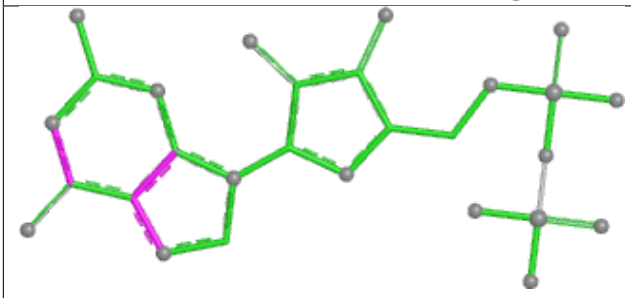


Rings

Ligand GDP RA 500



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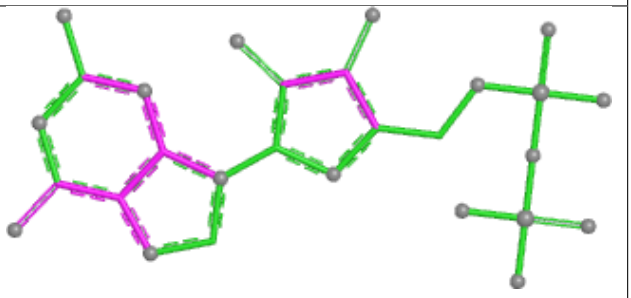

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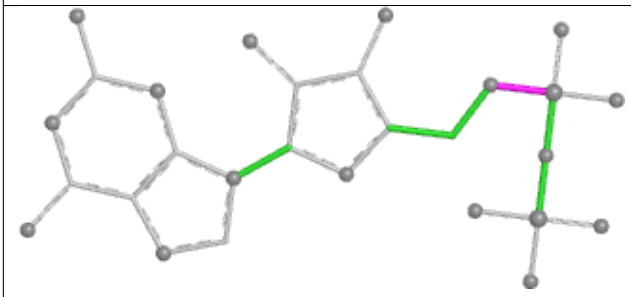

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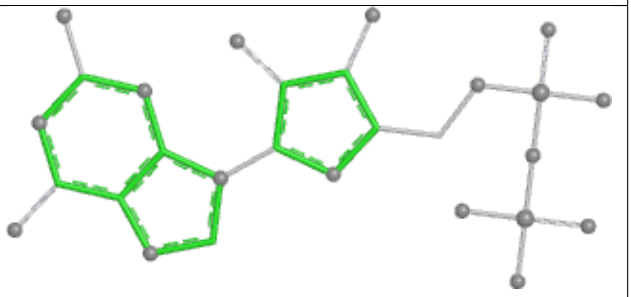
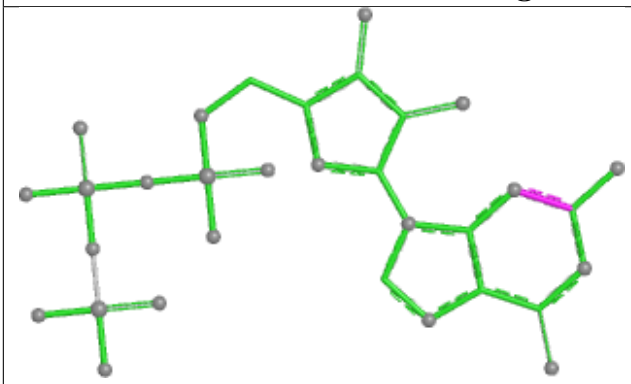


Rings

Ligand GTP LJ 501



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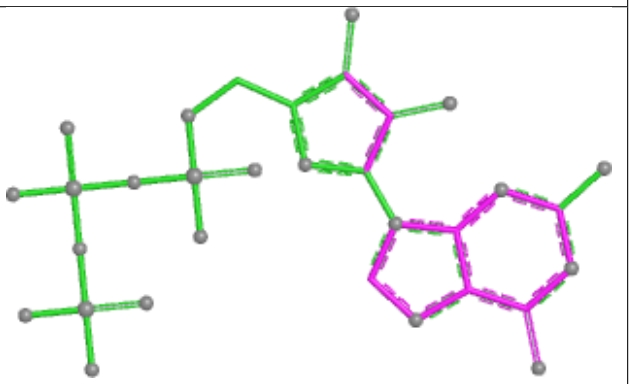

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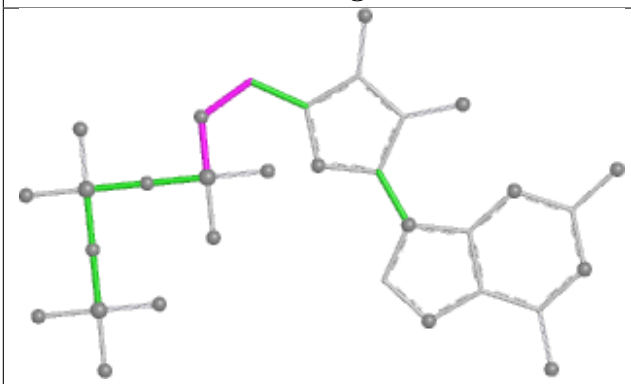

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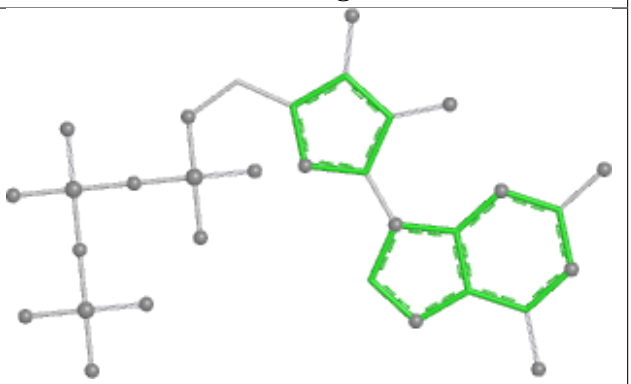
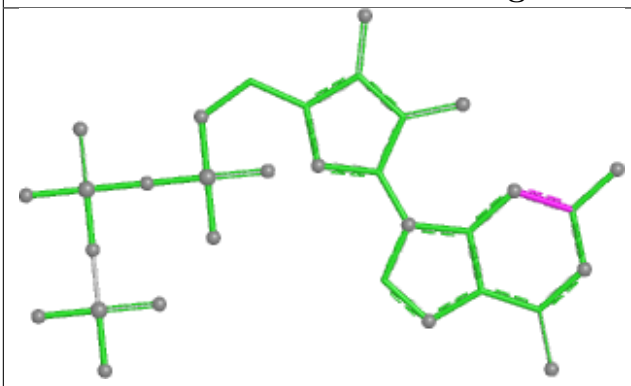


Rings

Ligand GTP UK 501



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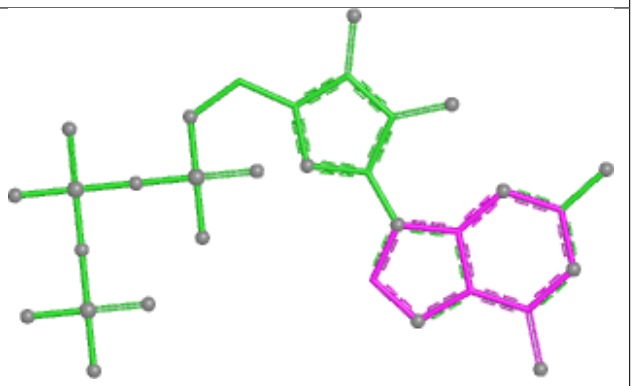

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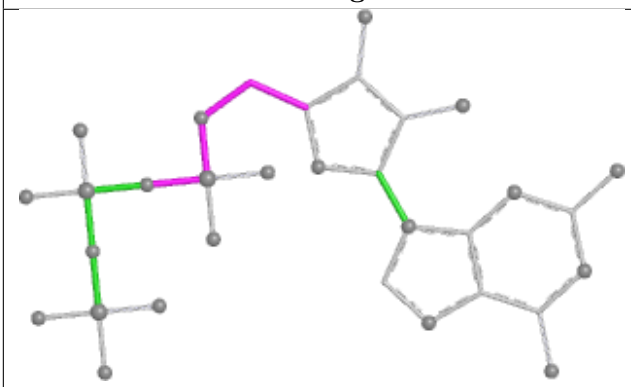

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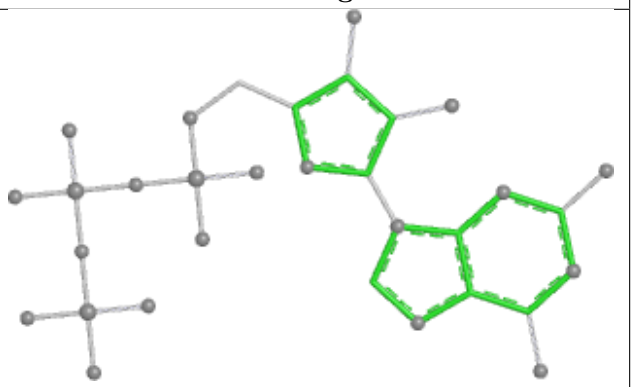
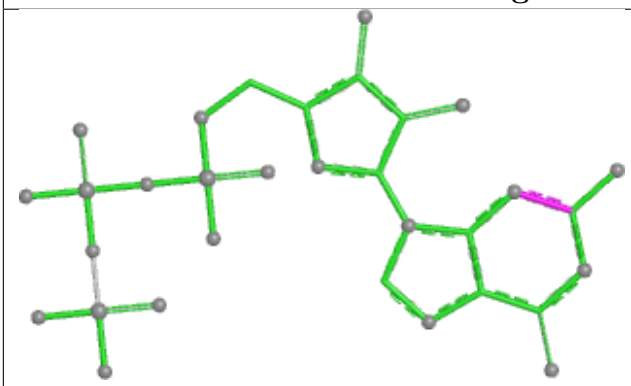


Rings

Ligand GTP RL 501



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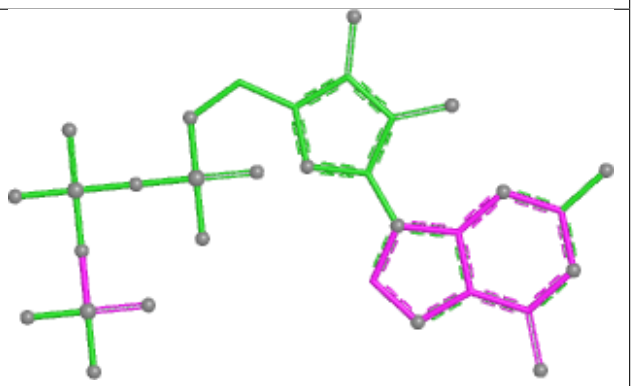

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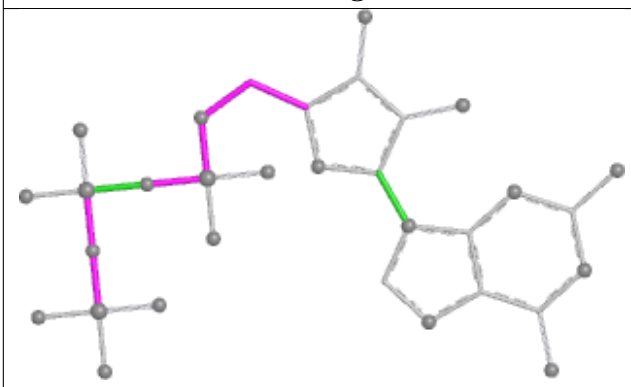

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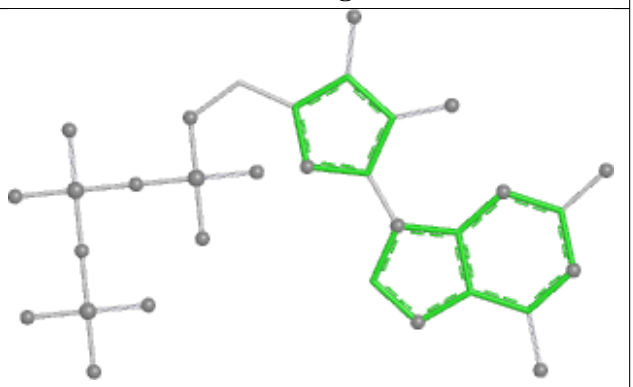
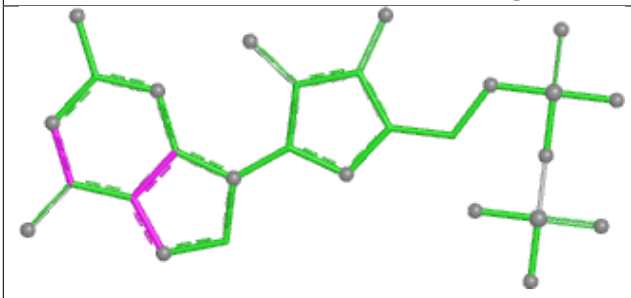


Rings

Ligand GDP AB 500



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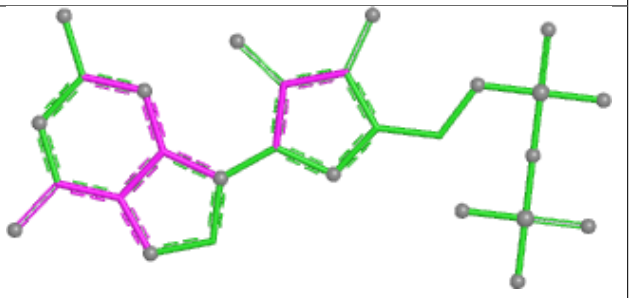

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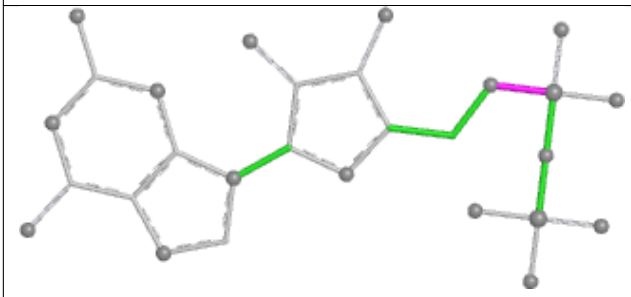

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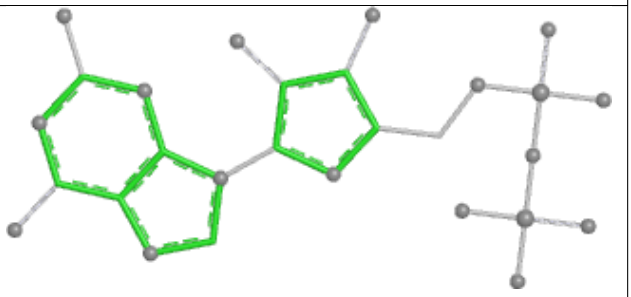
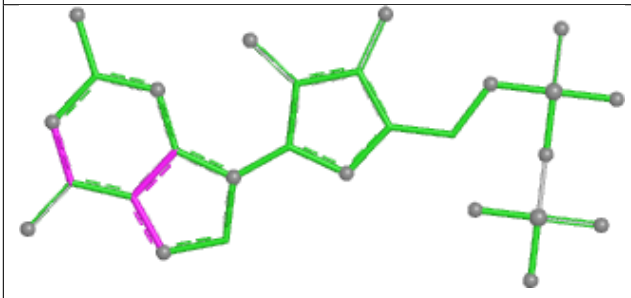


Rings

Ligand GDP MB 500



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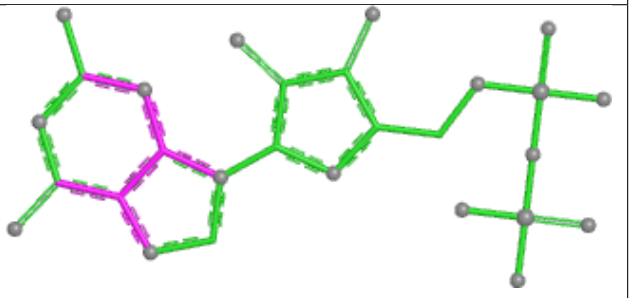

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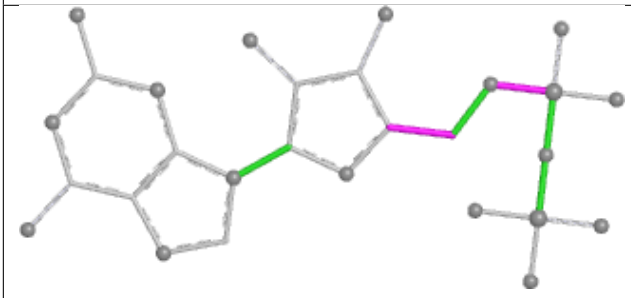

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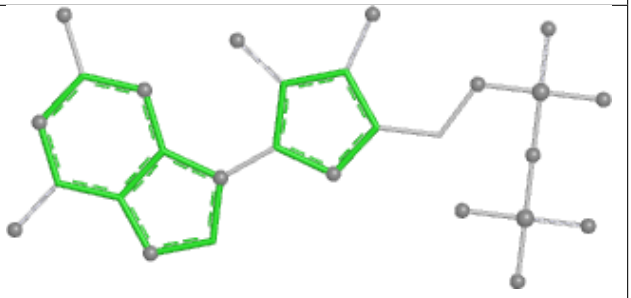
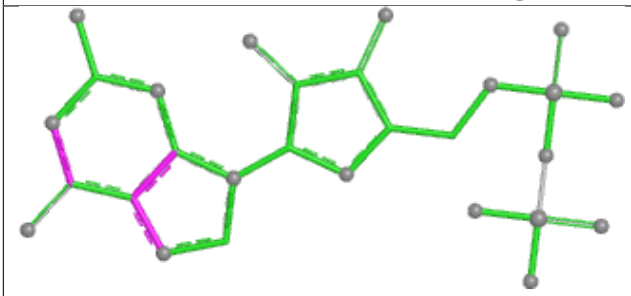


Rings

Ligand GDP PF 500



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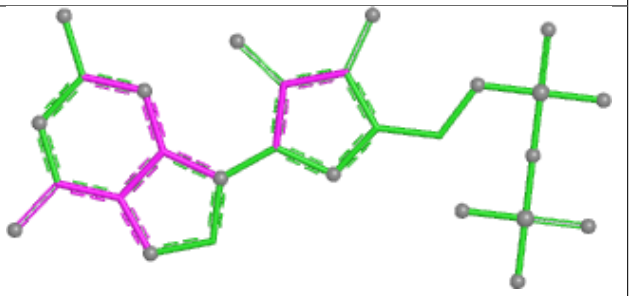

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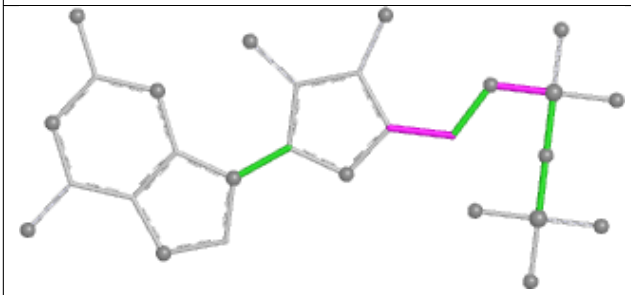

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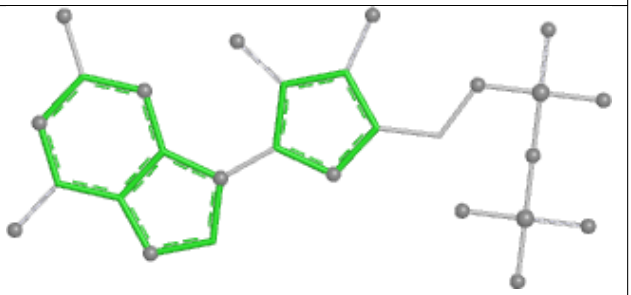
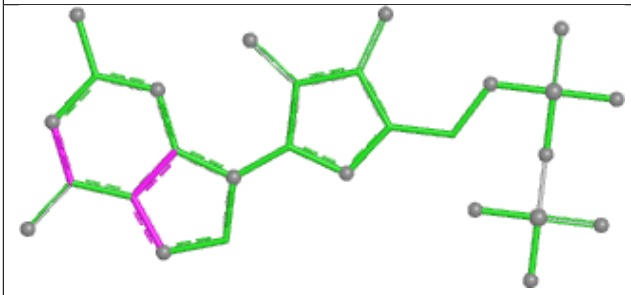


Rings

Ligand GDP NJ 500



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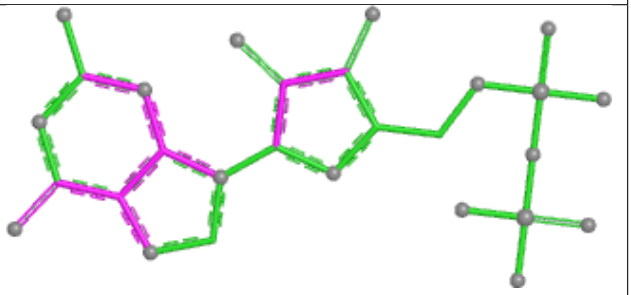

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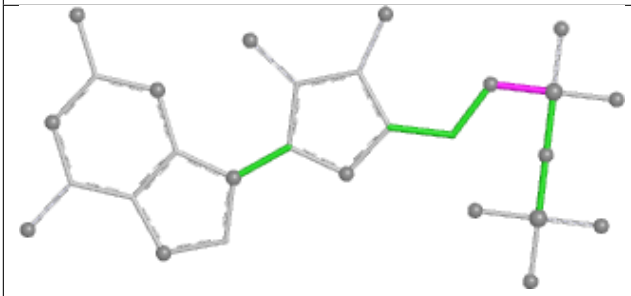

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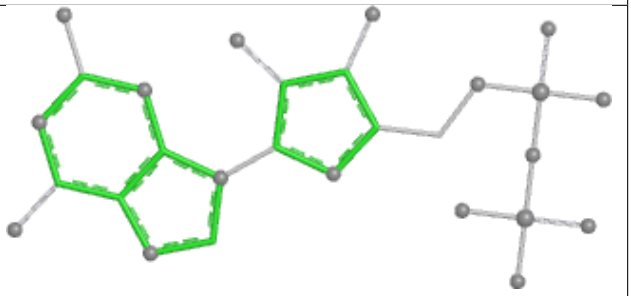
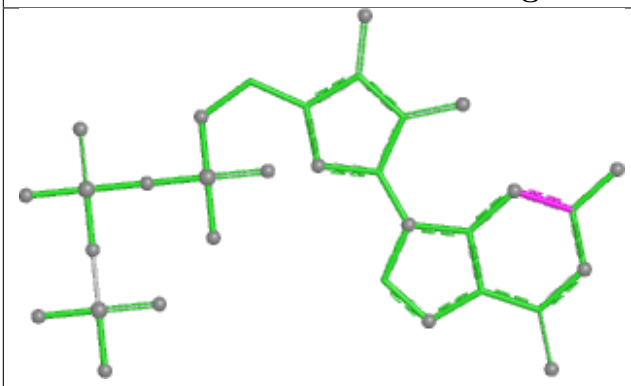


Rings

Ligand GTP II 501



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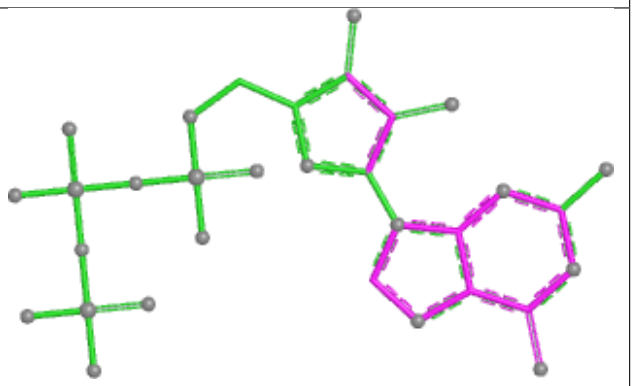

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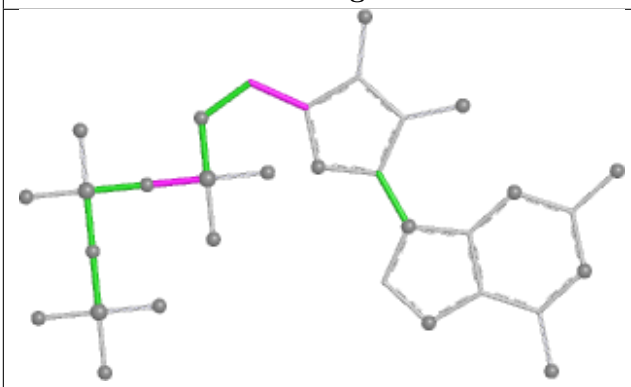

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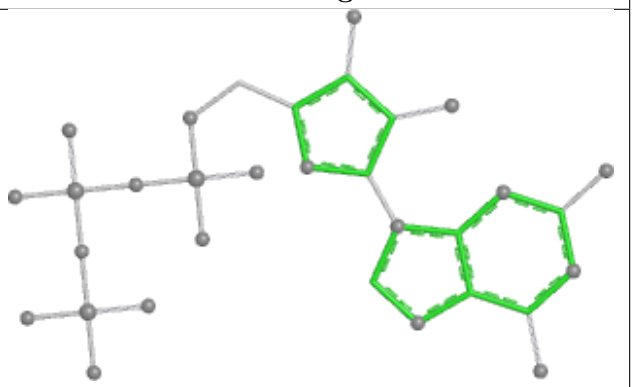
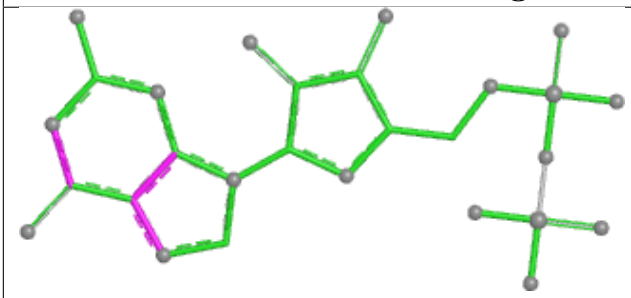


Rings

Ligand GDP AF 500



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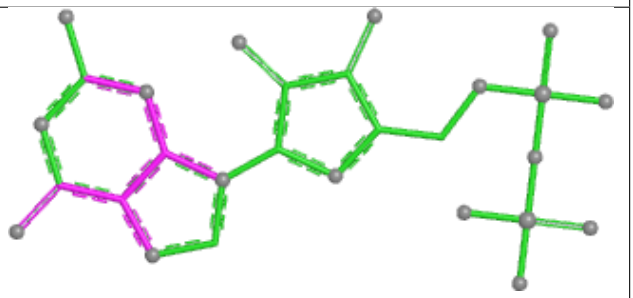
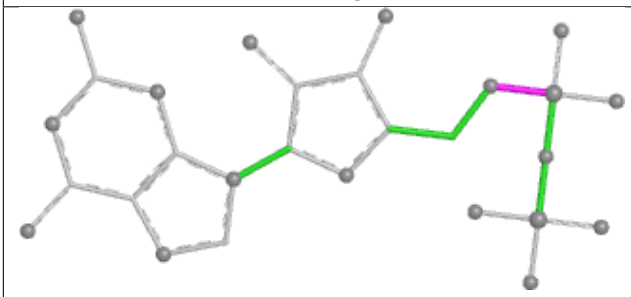


Bond angles



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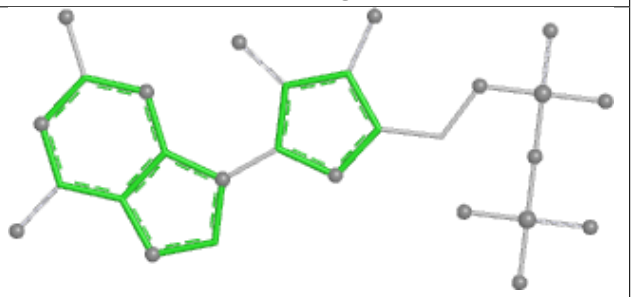
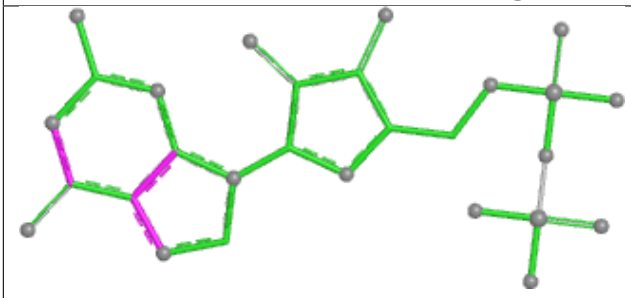
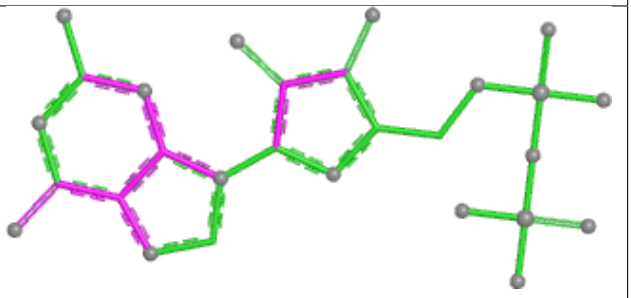


Rings

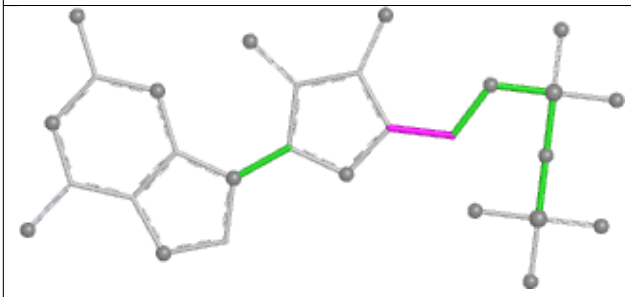
Ligand GDP HF 500



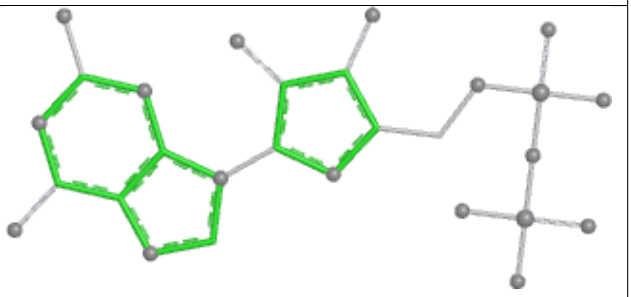
Bond lengths



Bond angles

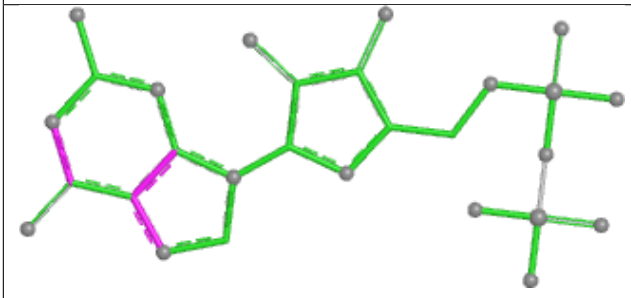


Torsions



Rings

Ligand GDP KK 500



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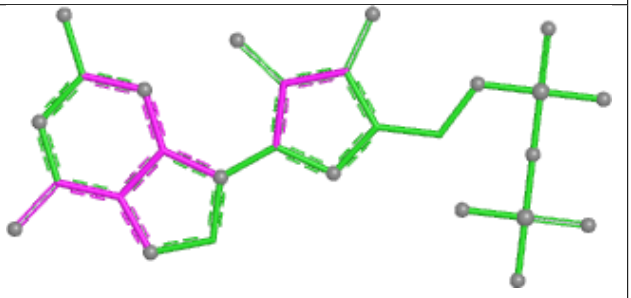

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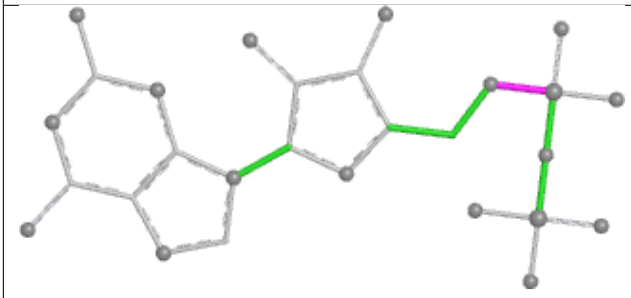

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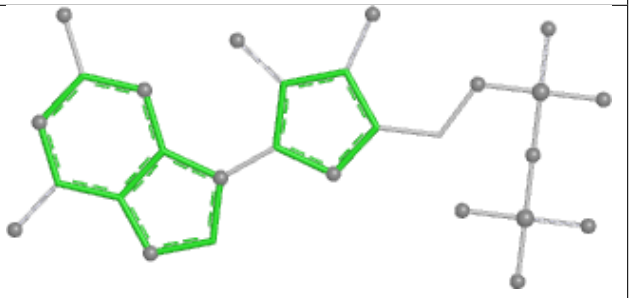
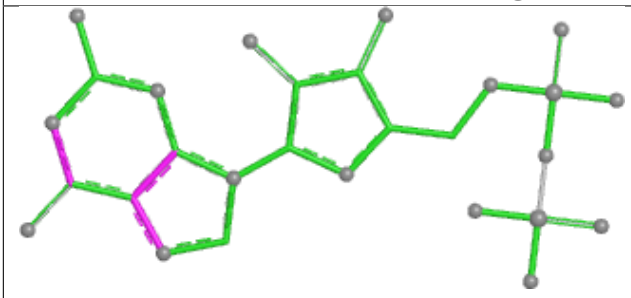


Rings

Ligand GDP UF 500



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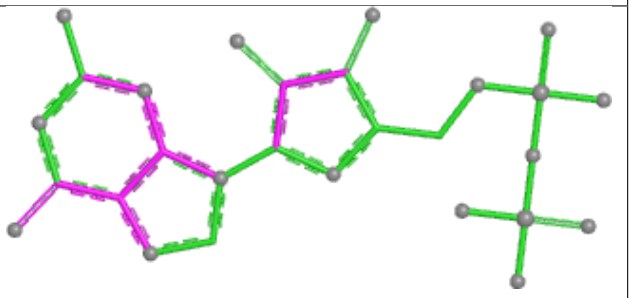

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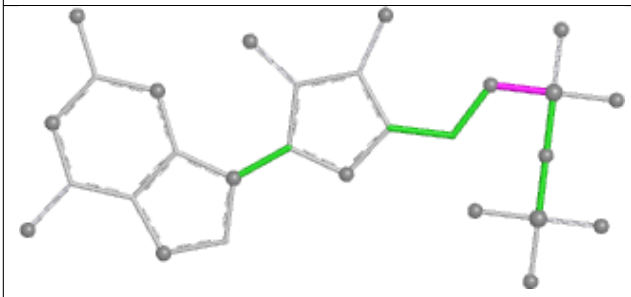

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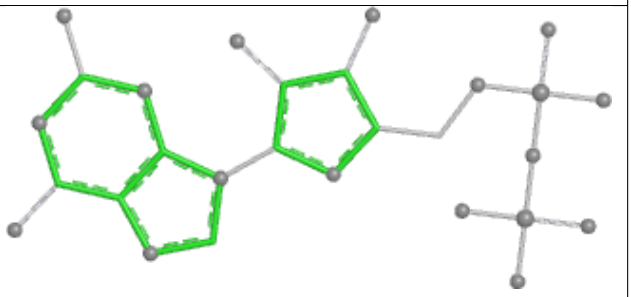
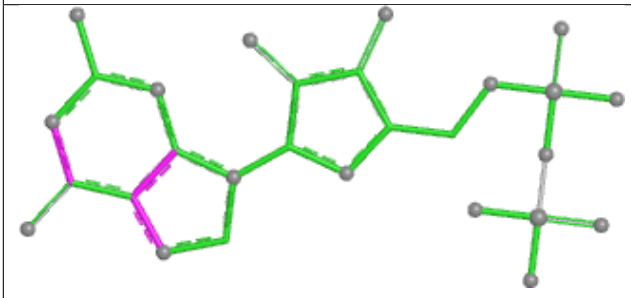


Rings

Ligand GDP DG 500



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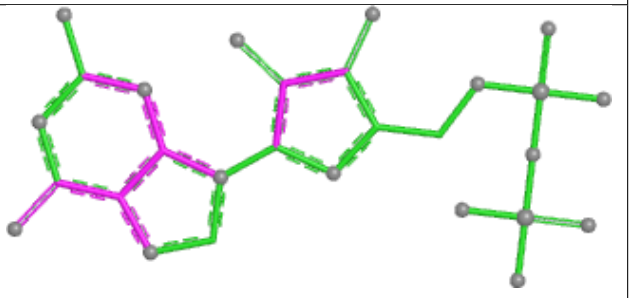
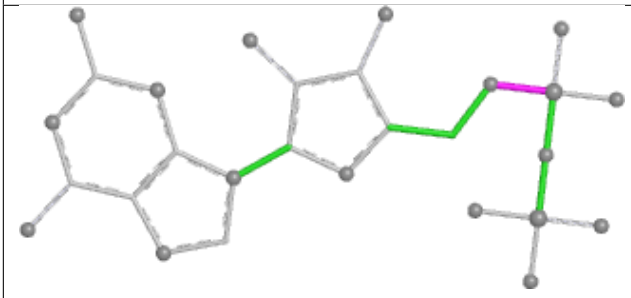


Bond angles



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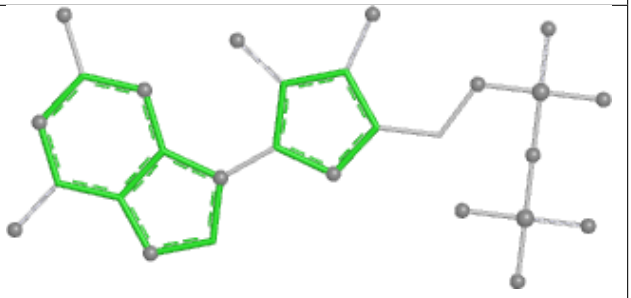
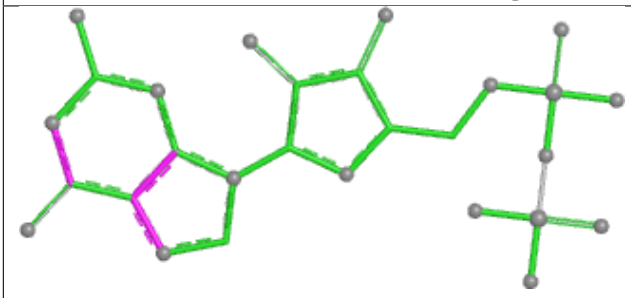


Rings

Ligand GDP AN 500



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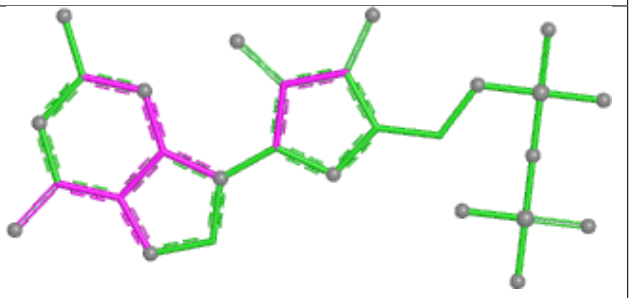

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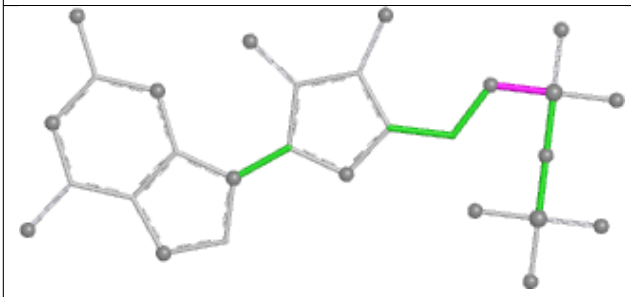

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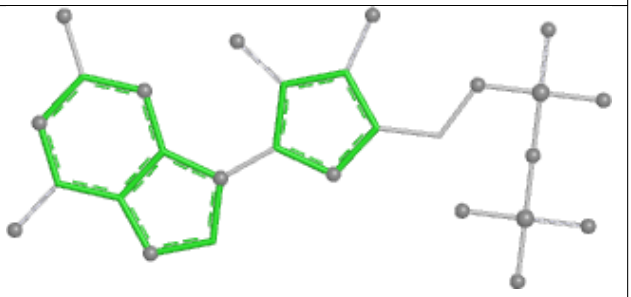
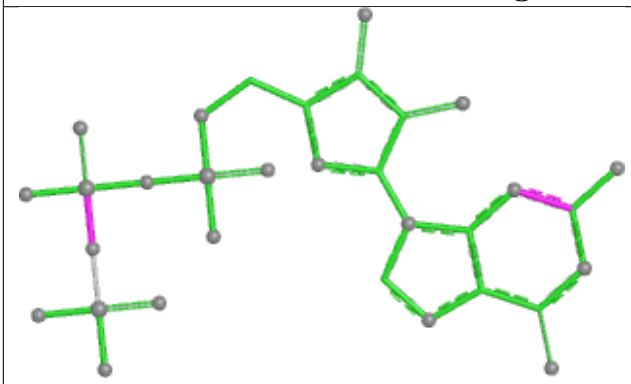


Rings

Ligand GTP QJ 501



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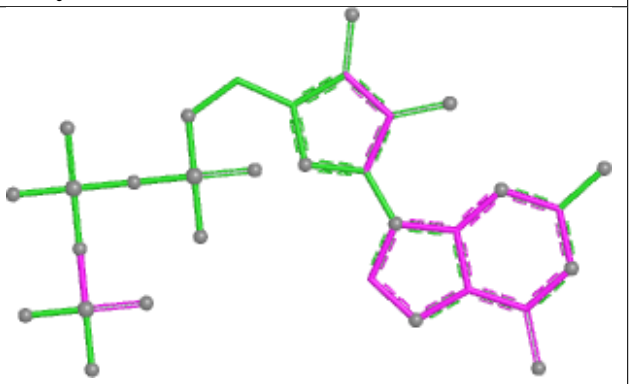

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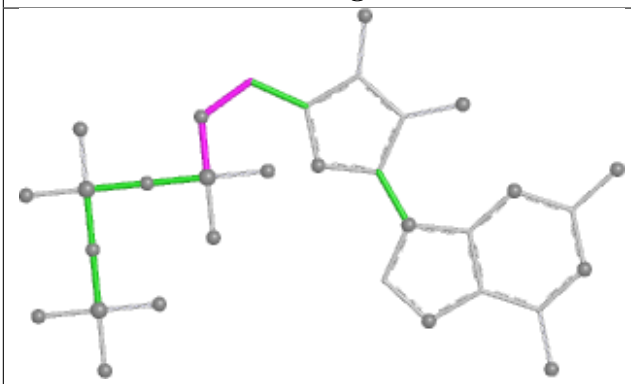

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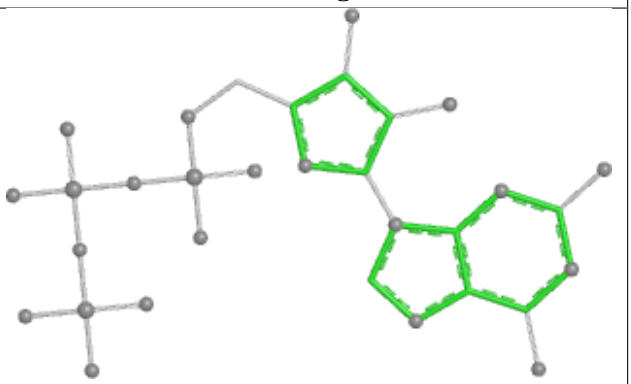
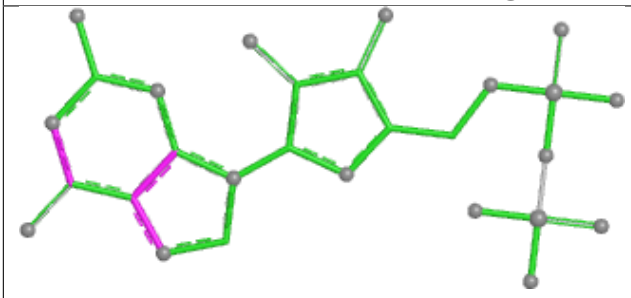


Rings

Ligand GDP WD 500



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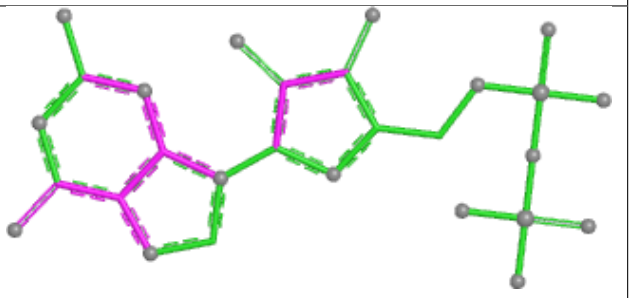

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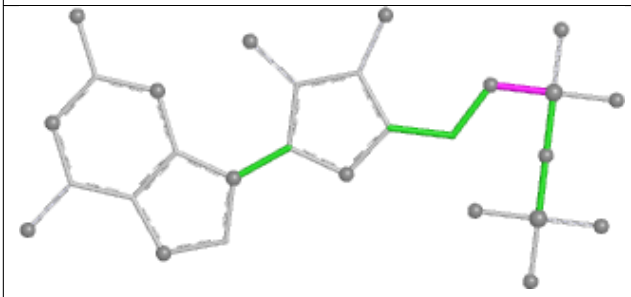

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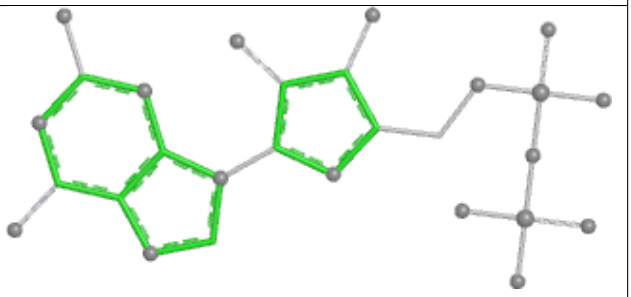
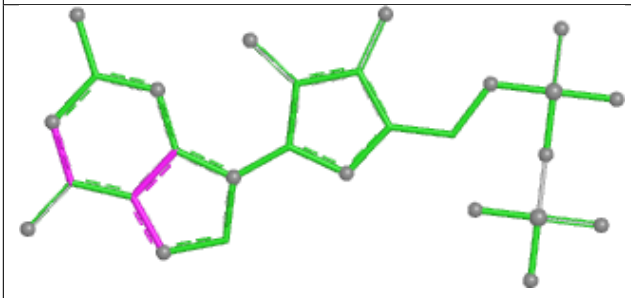


Rings

Ligand GDP GF 500



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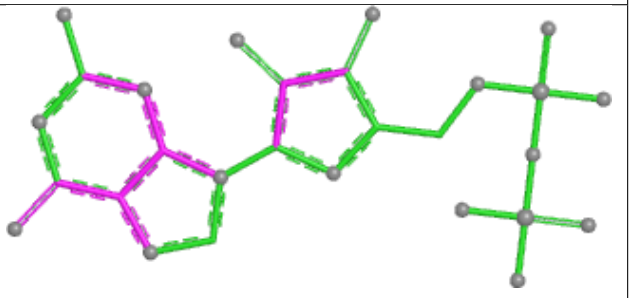

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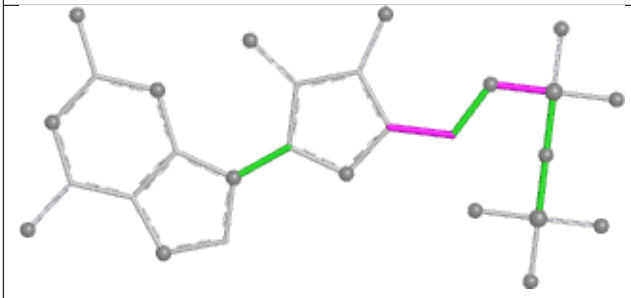

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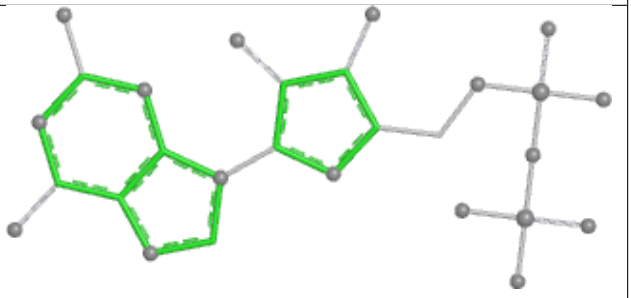
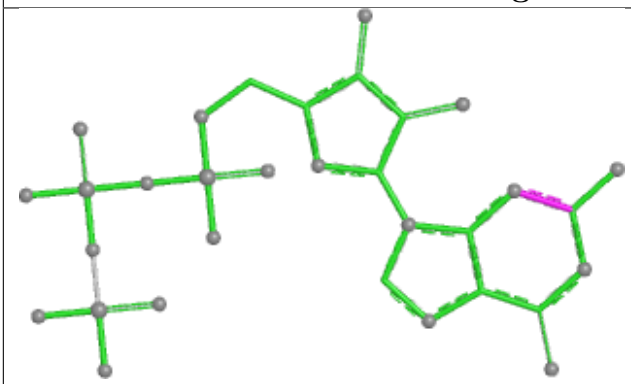


Rings

Ligand GTP IM 501



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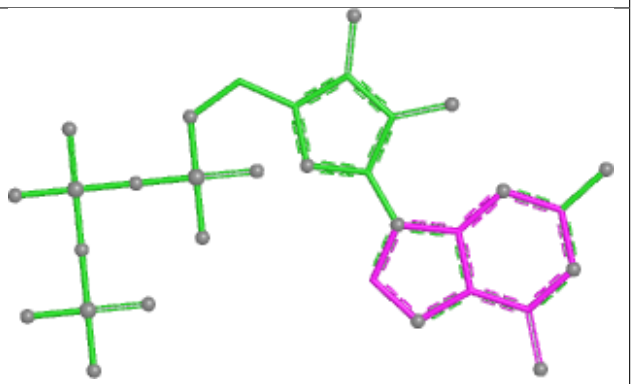

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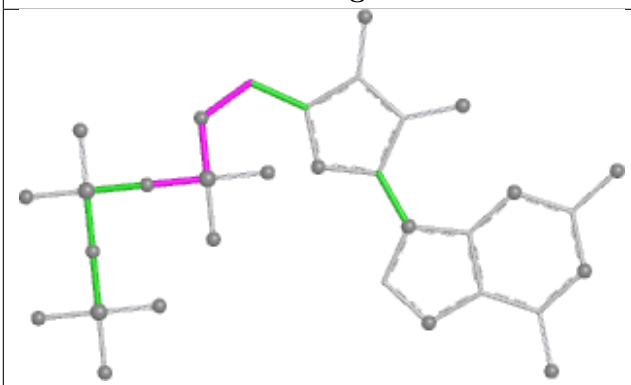

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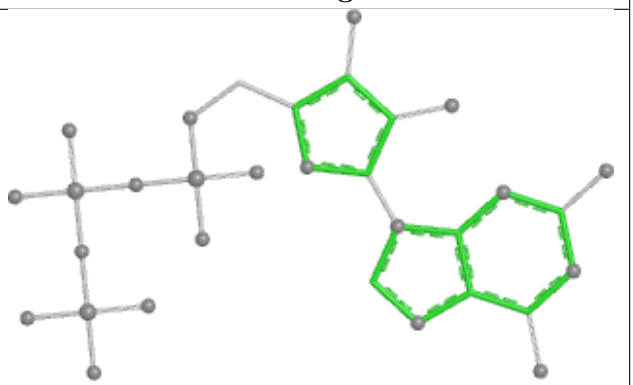
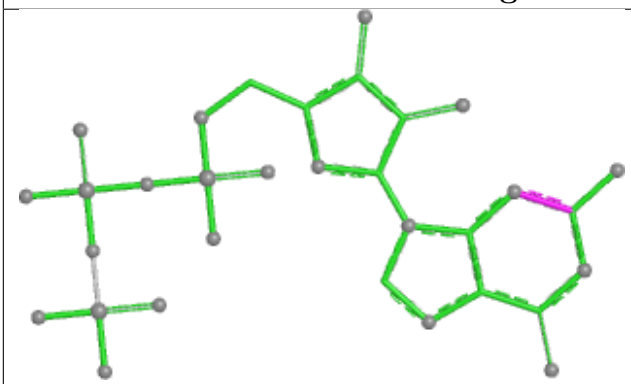


Rings

Ligand GTP WM 501



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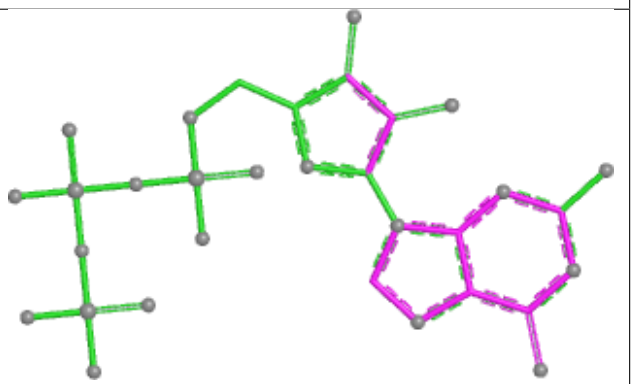

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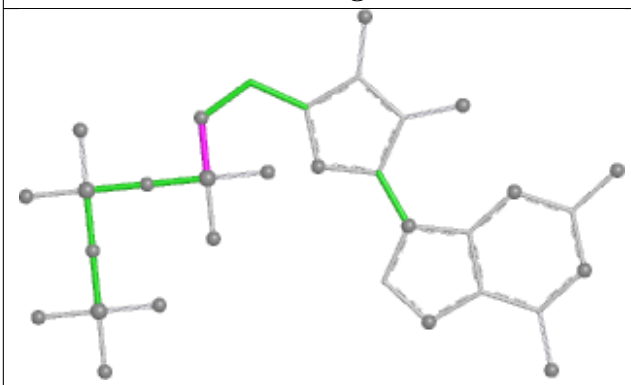

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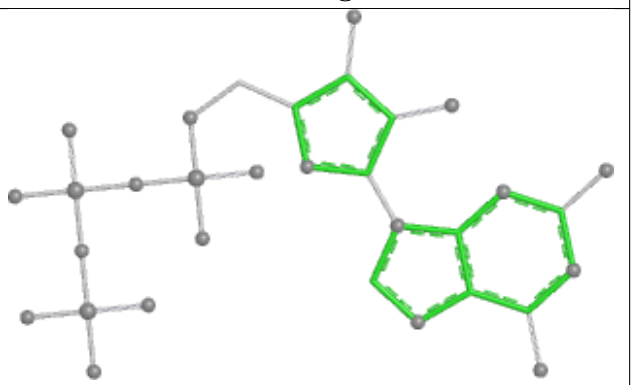
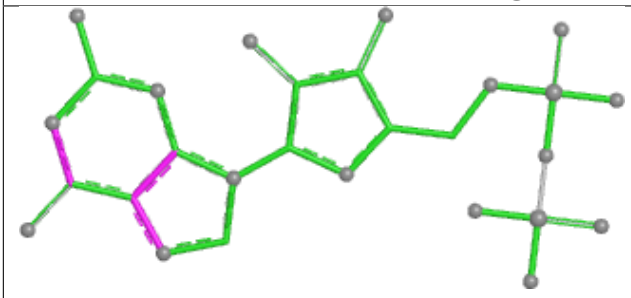


Rings

Ligand GDP KC 500



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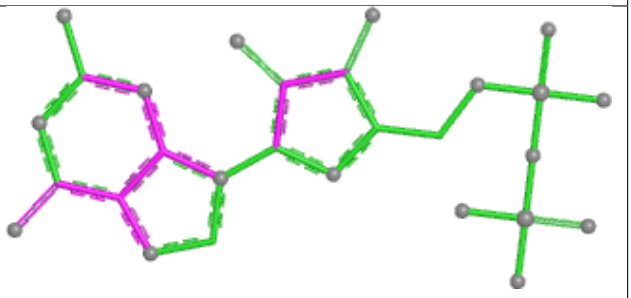

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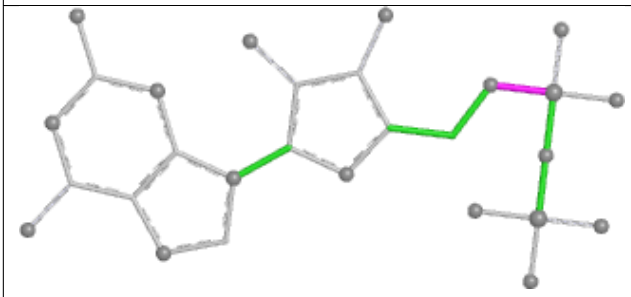

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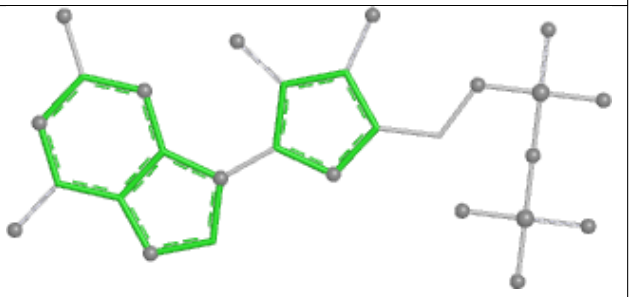
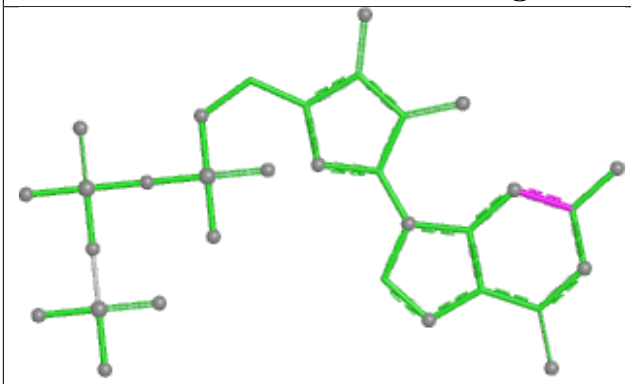


Rings

Ligand GTP RF 501



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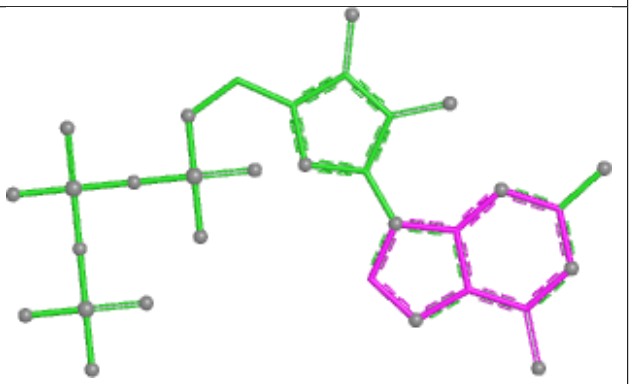

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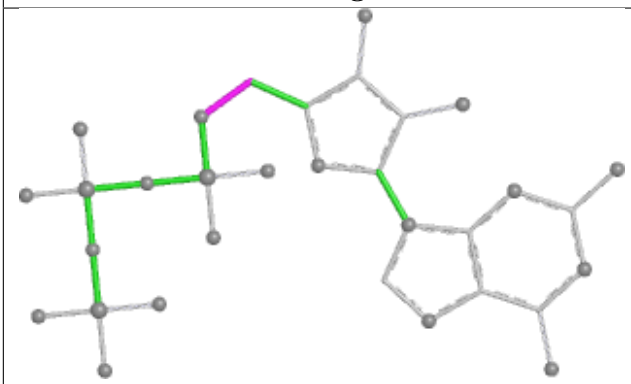

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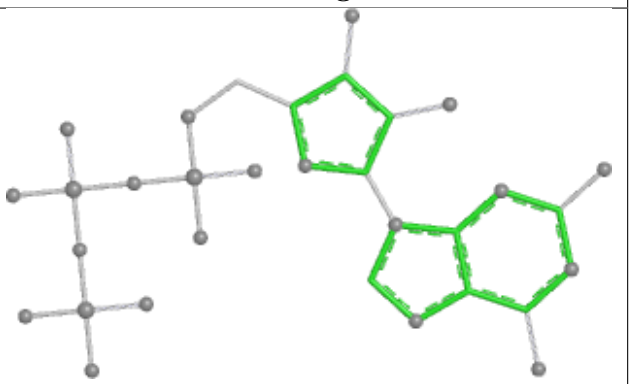
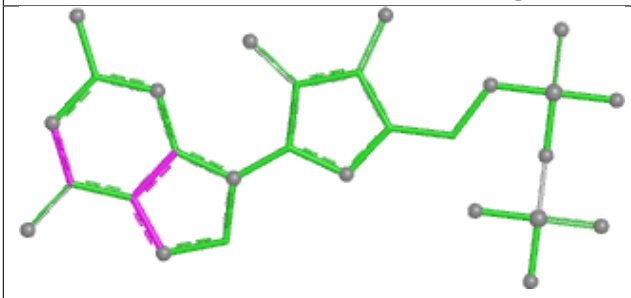


Rings

Ligand GDP LG 500



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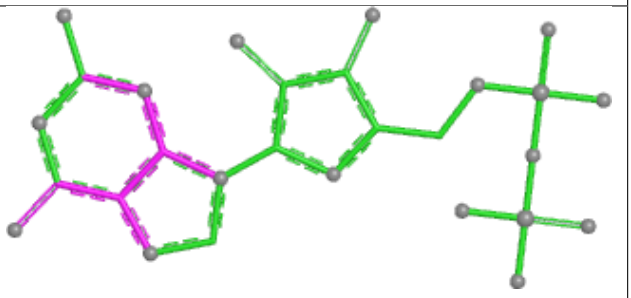
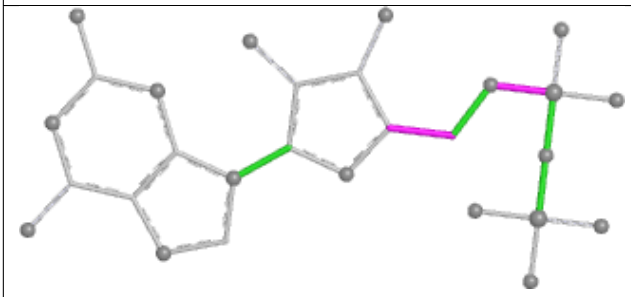


Bond angles



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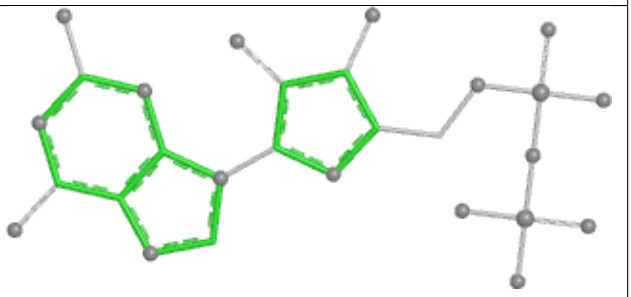
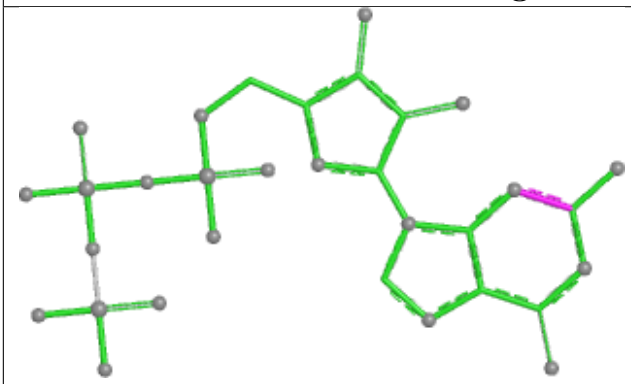


Rings

Ligand GTP LH 501



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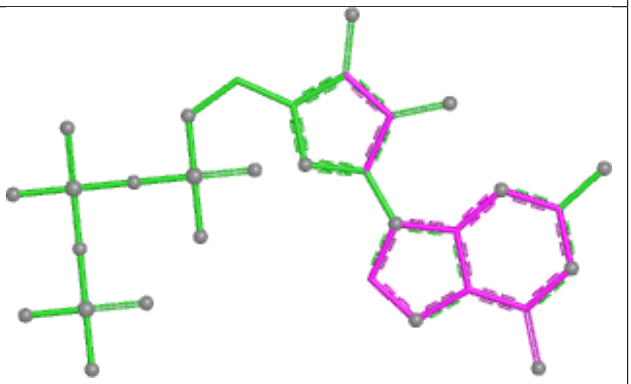
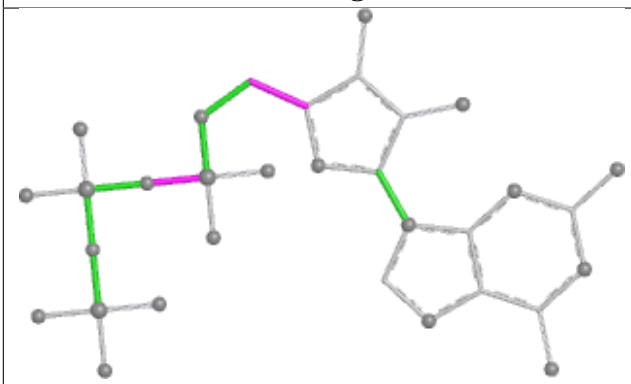
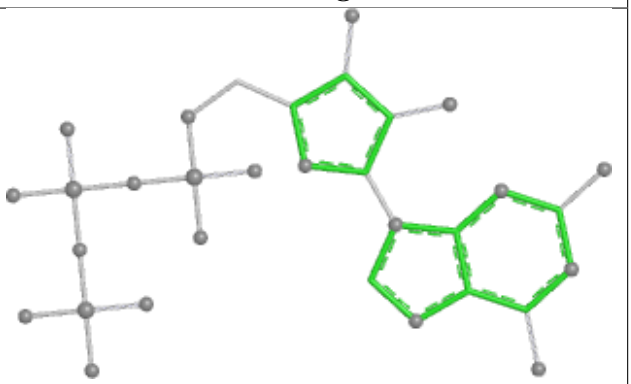


Bond angles

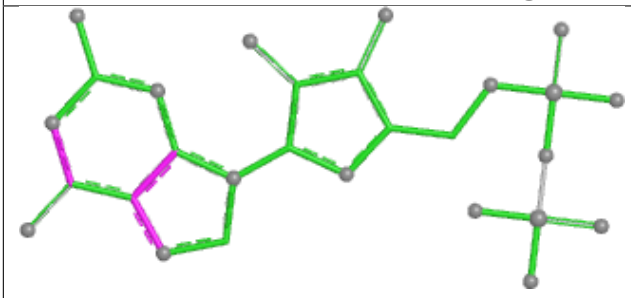


Torsions



Rings

Ligand GDP H 500



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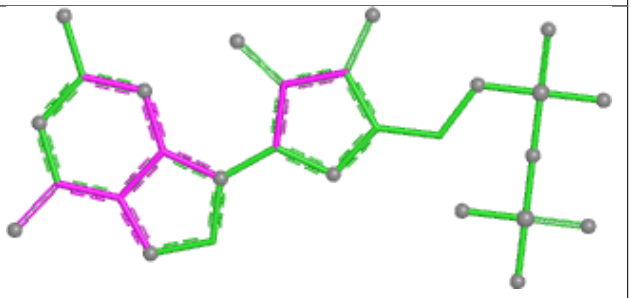

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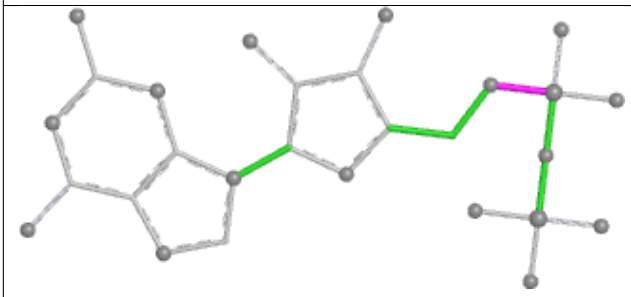

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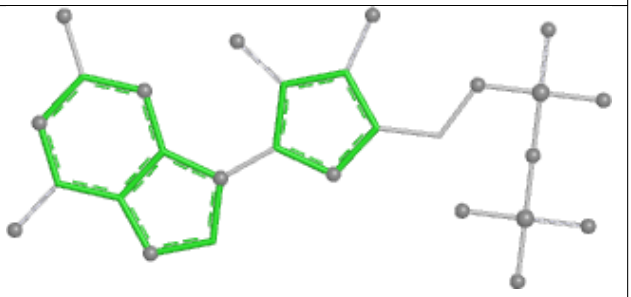
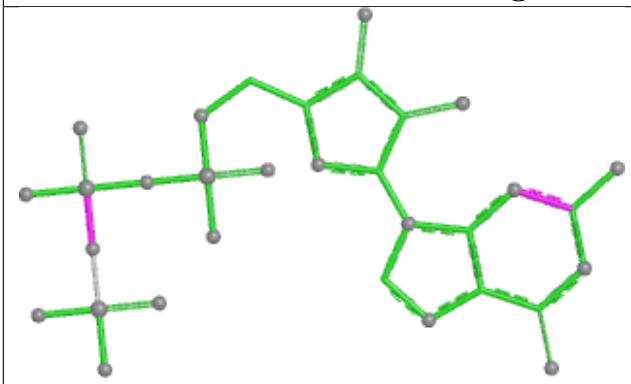


Rings

Ligand GTP NE 501



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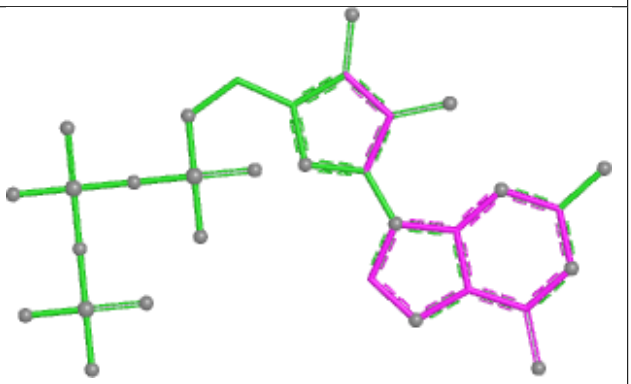

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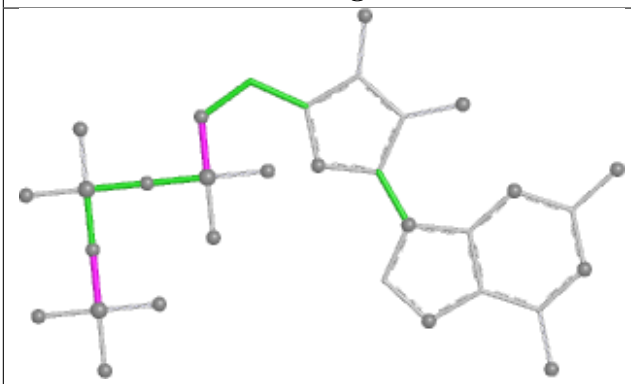

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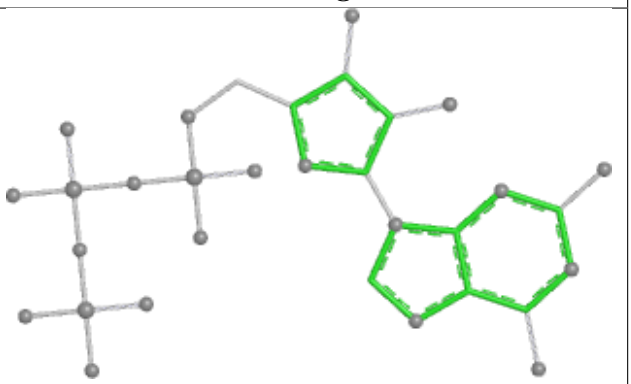
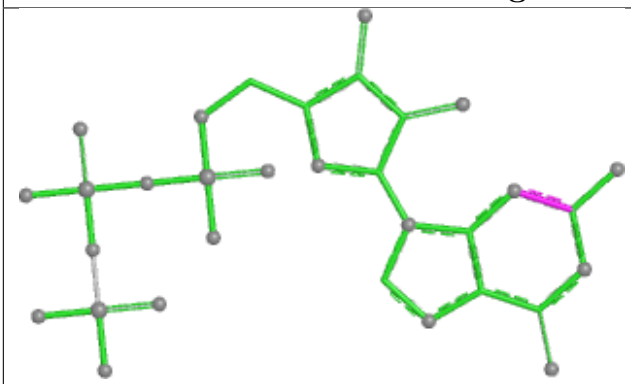


Rings

Ligand GTP AG 501



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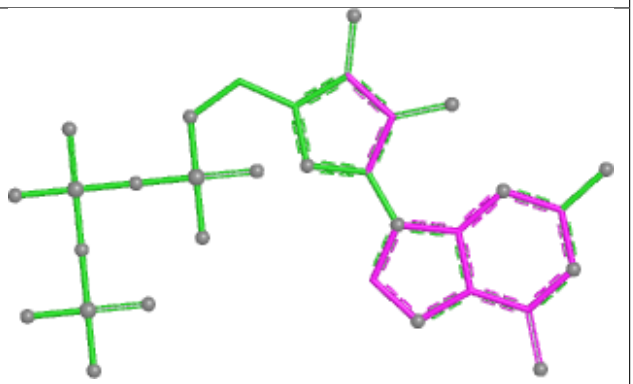

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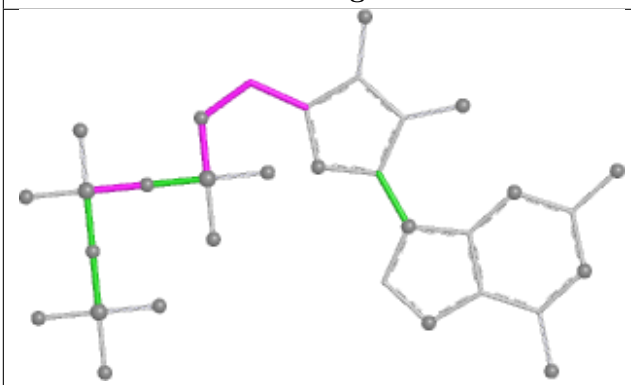

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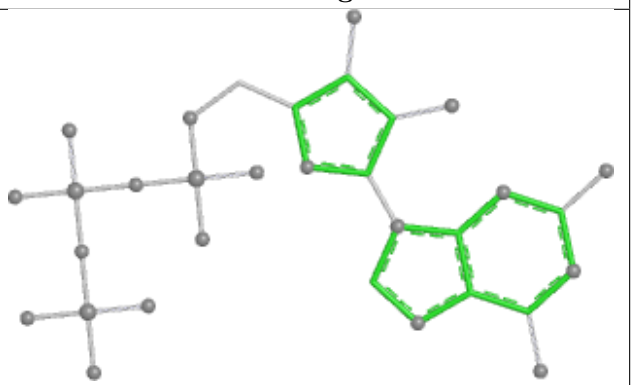
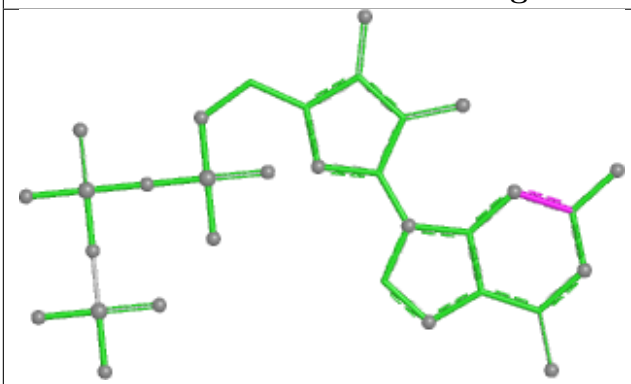


Rings

Ligand GTP EA 501



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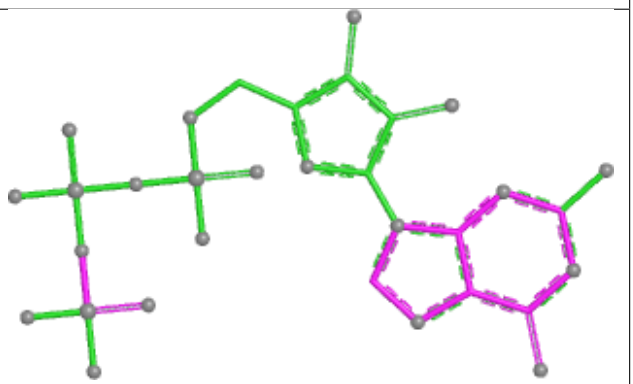

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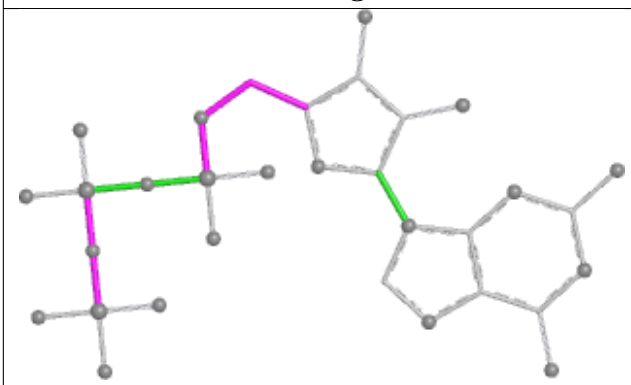

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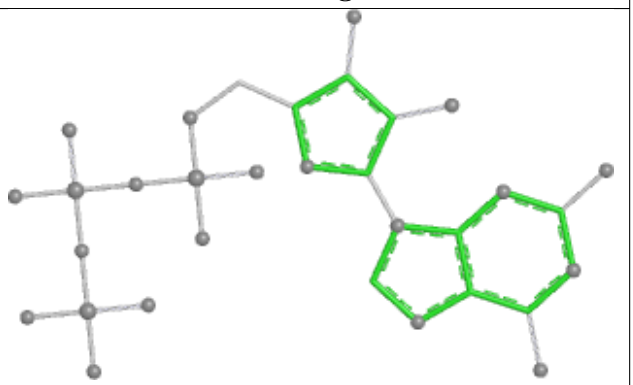

Rings

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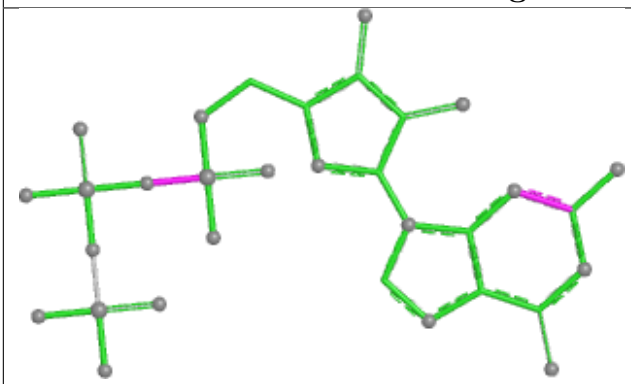

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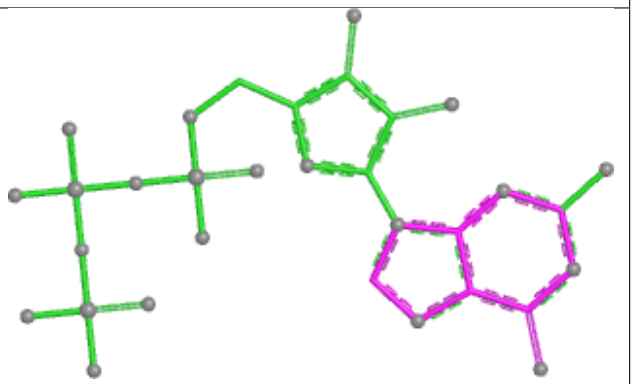

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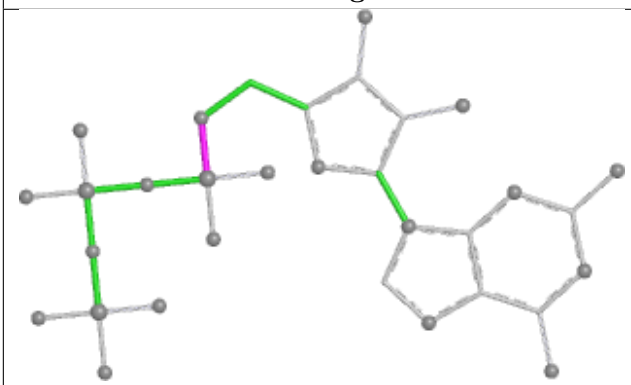

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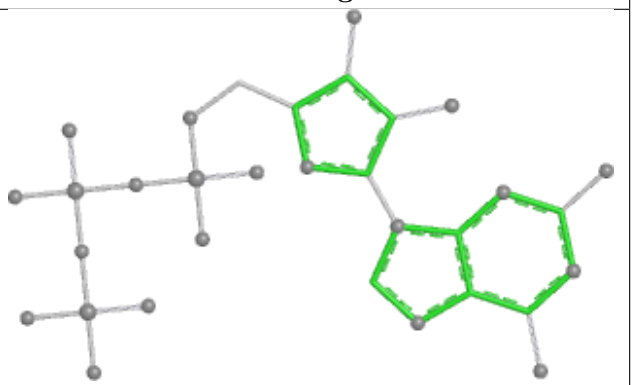

Rings

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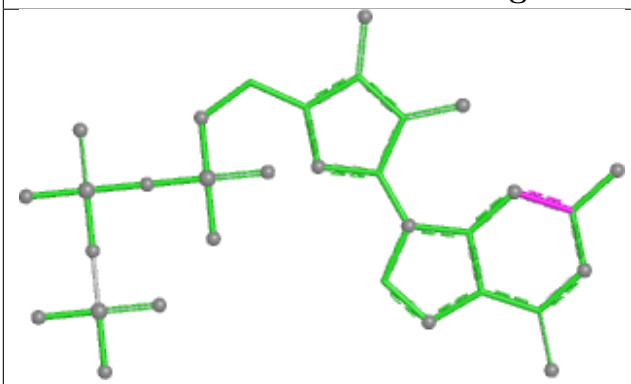

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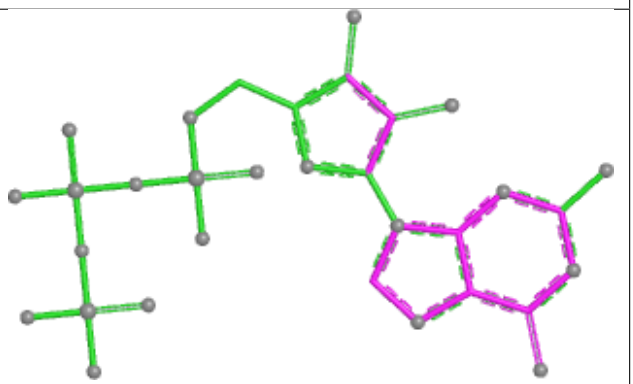

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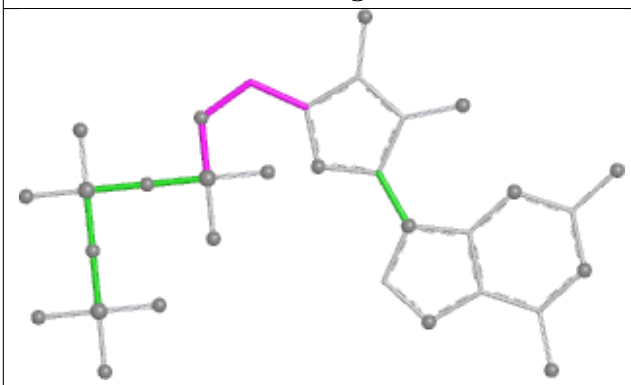

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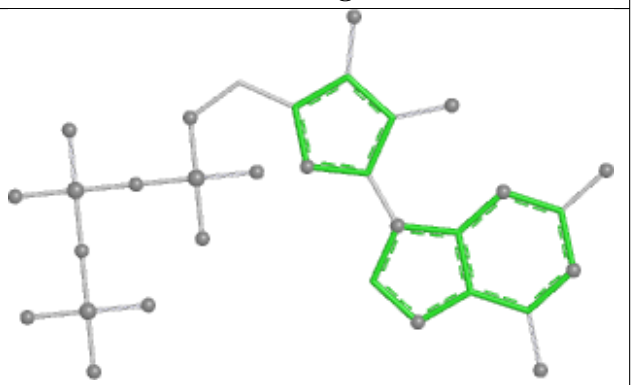
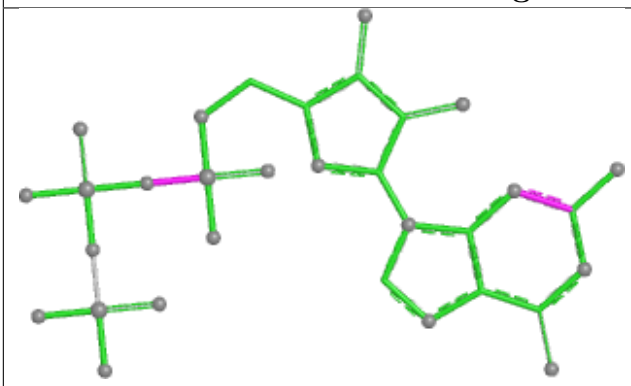


Rings

Ligand GTP DJ 501



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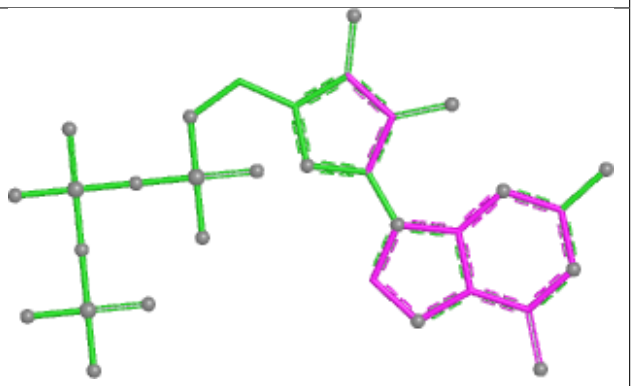

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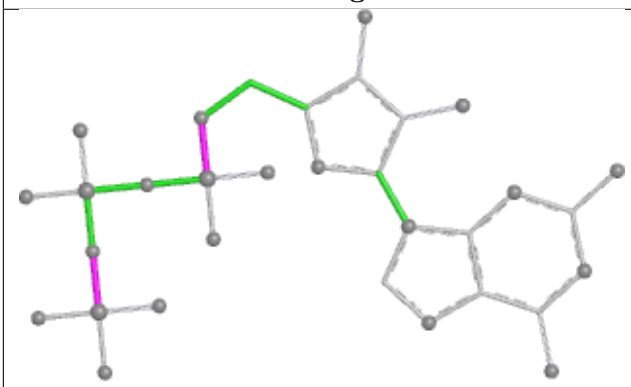

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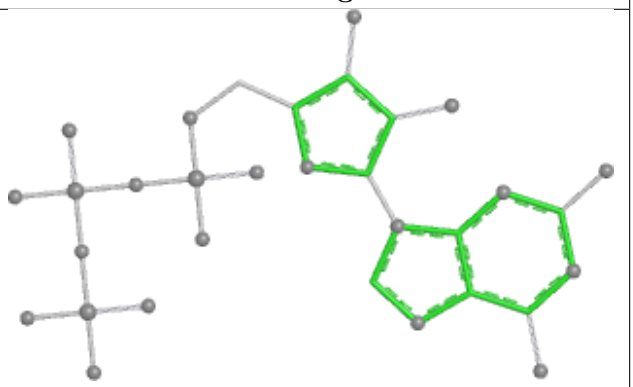

Rings

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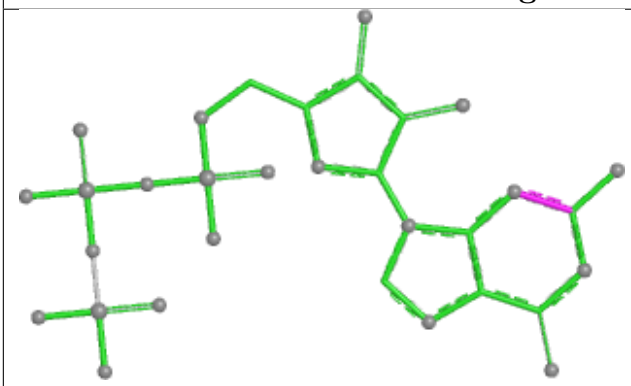

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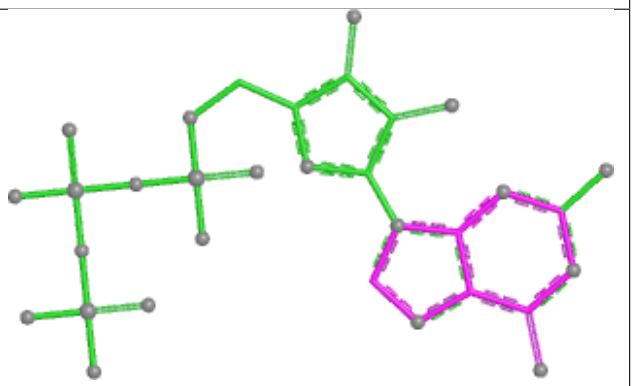

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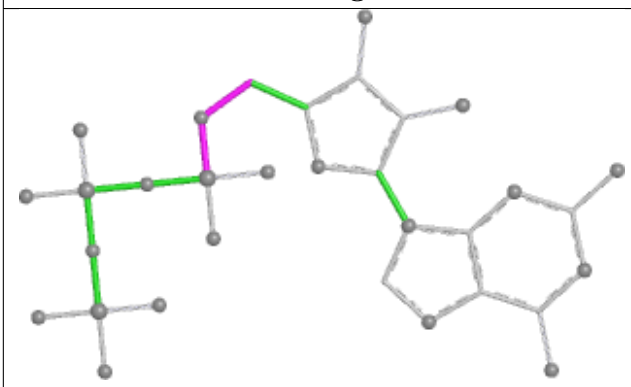

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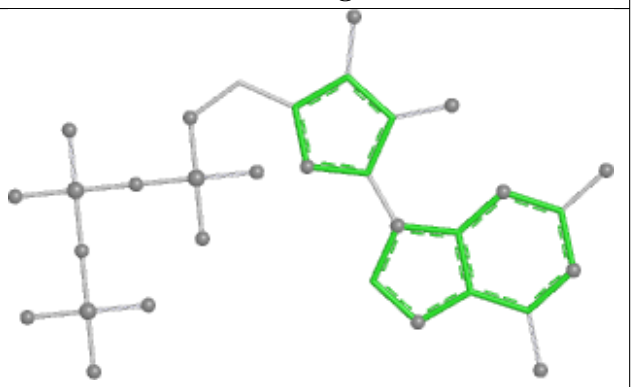

Rings

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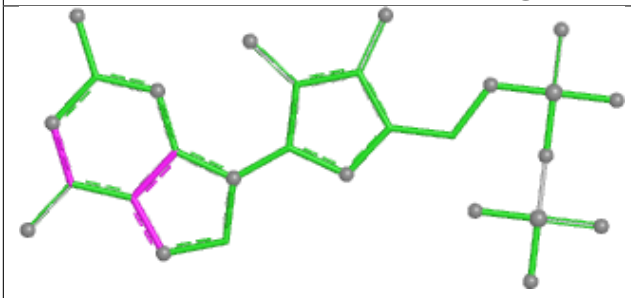

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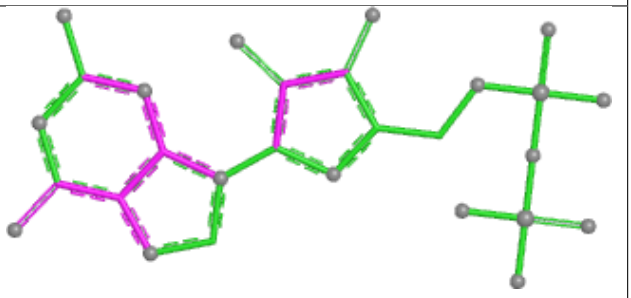

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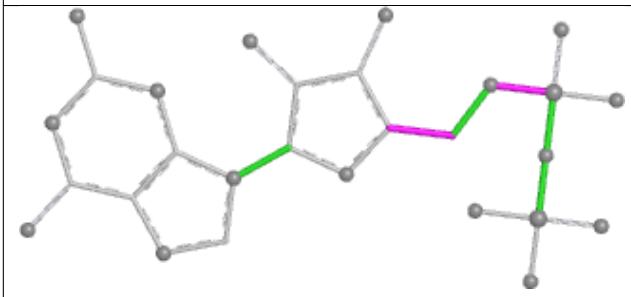

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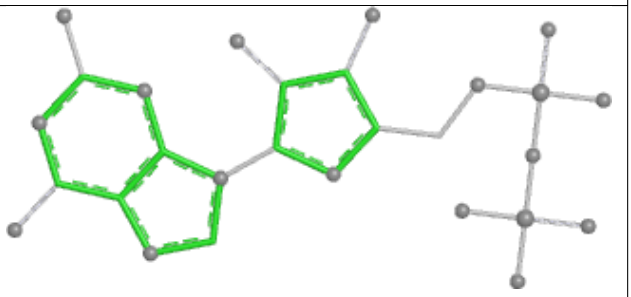

Rings

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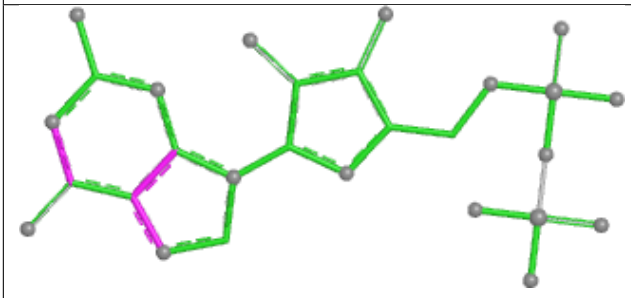

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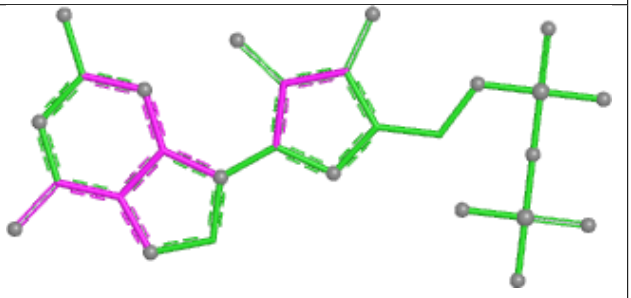

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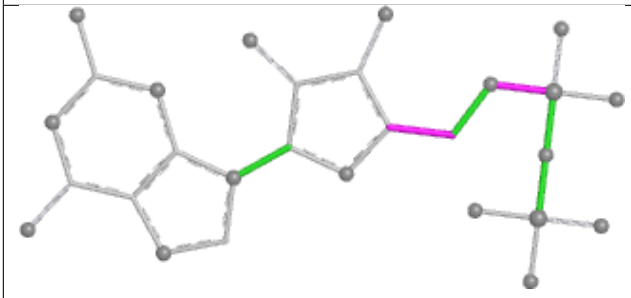

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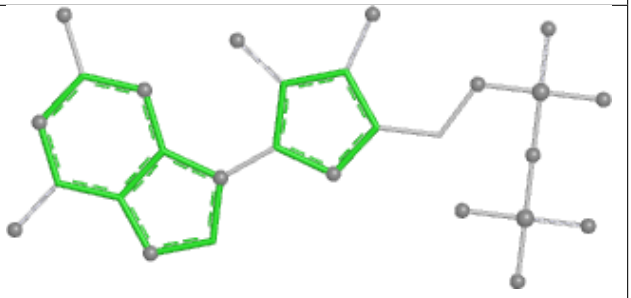

Rings

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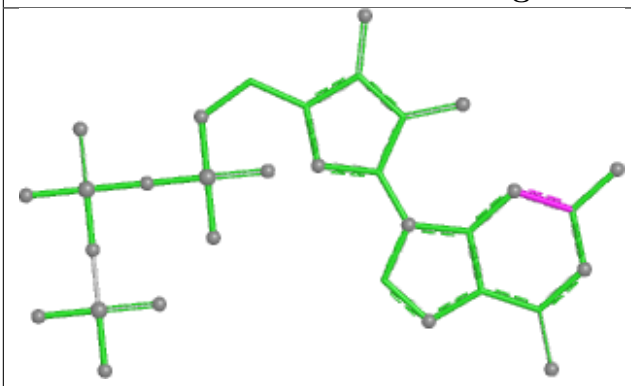

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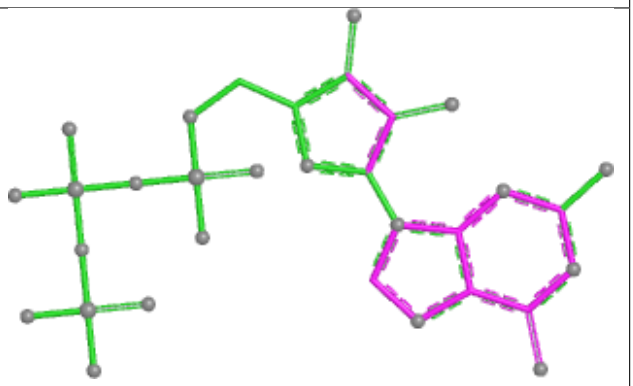

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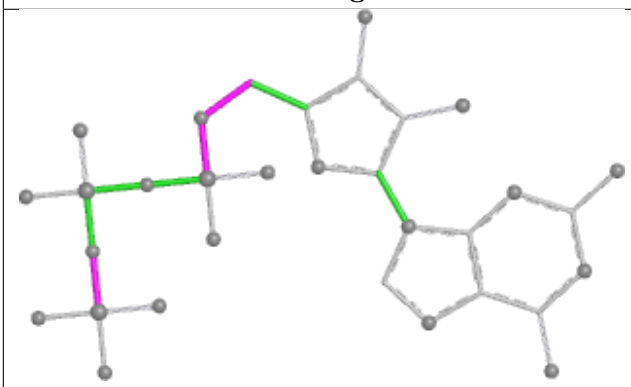

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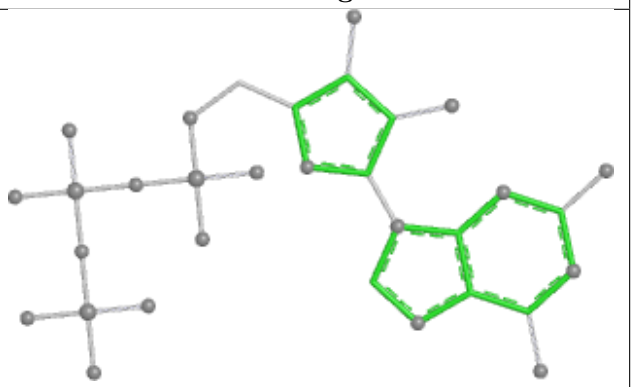

Rings

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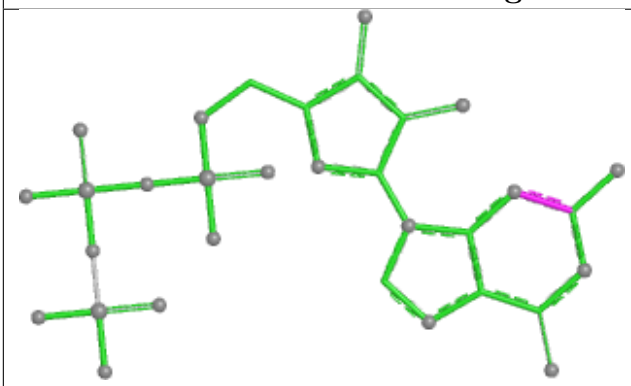

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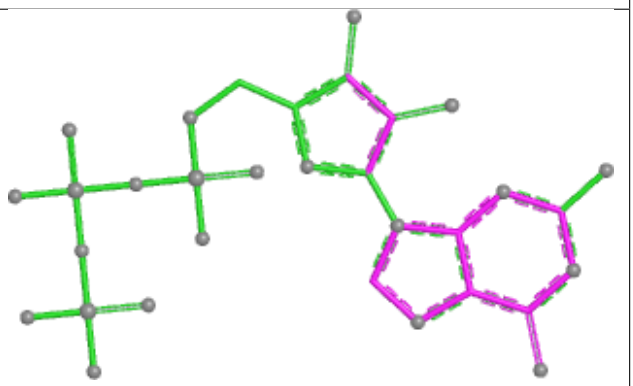

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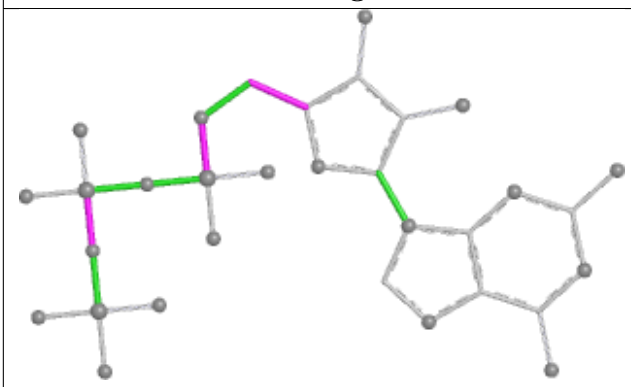

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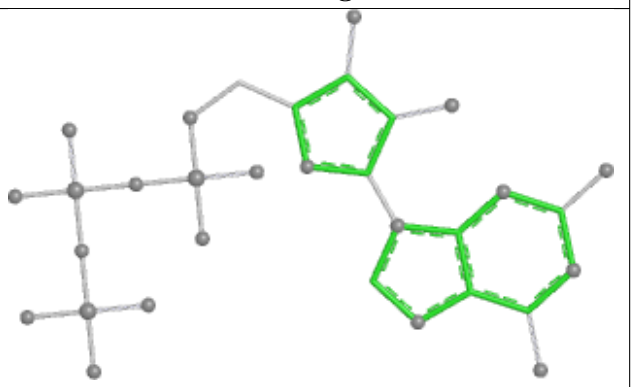
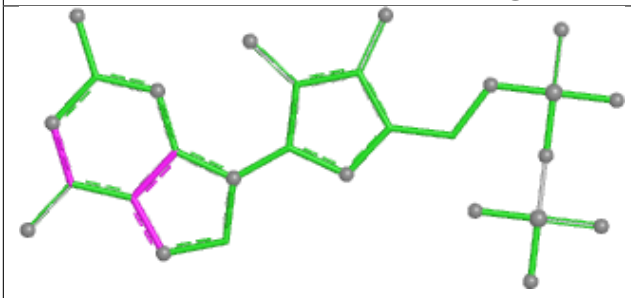
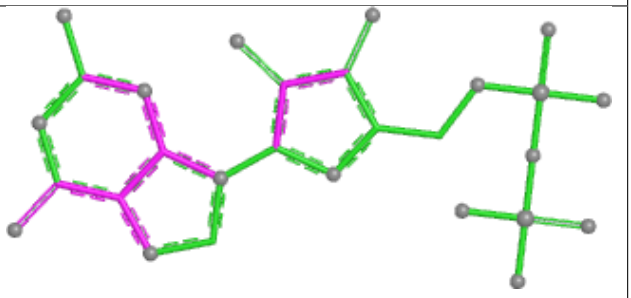
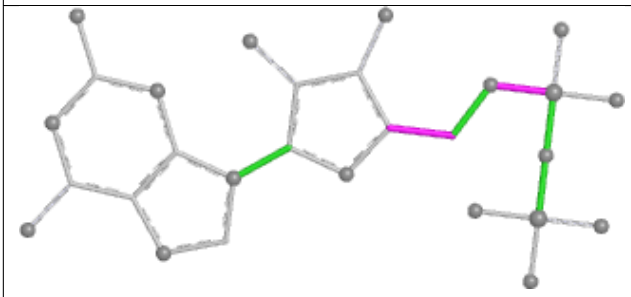
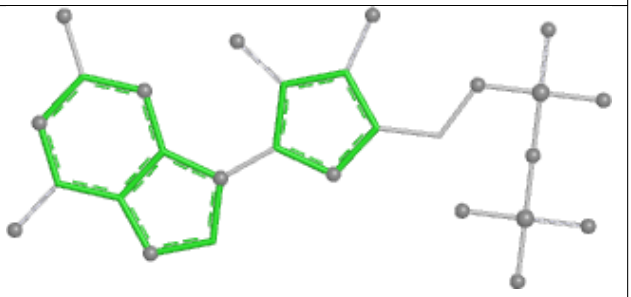


Rings

Ligand GDP KA 500	
 Bond lengths	 Bond angles
 Torsions	 Rings

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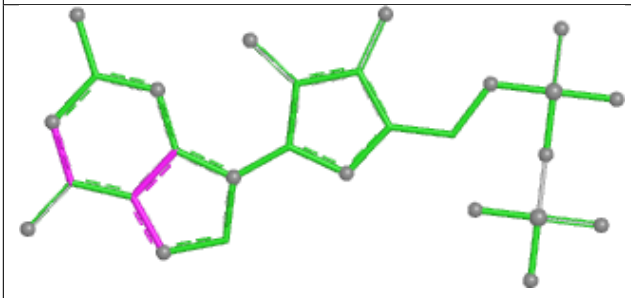
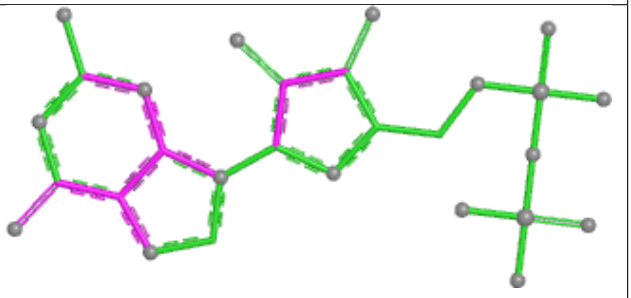
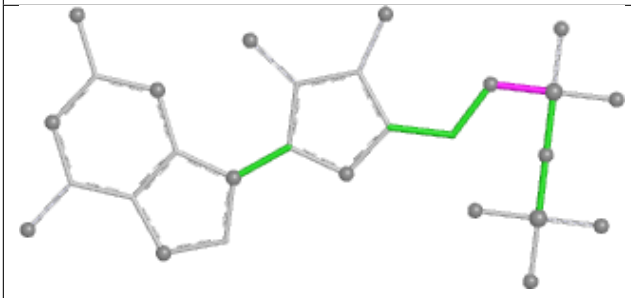
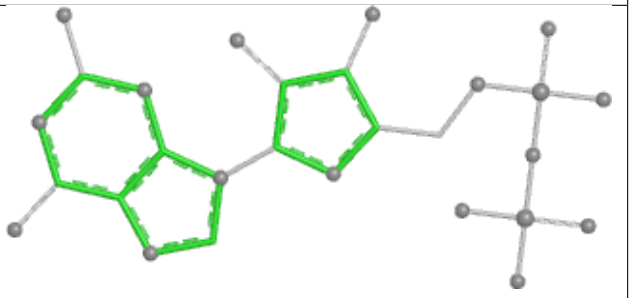
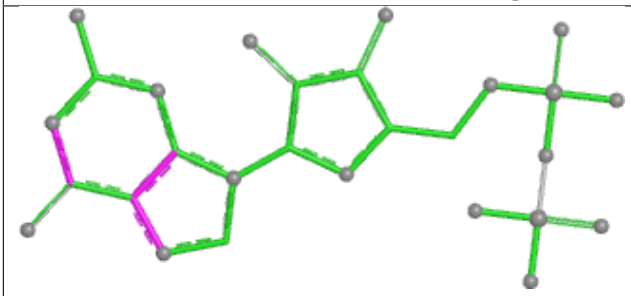
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GDP WJ 500



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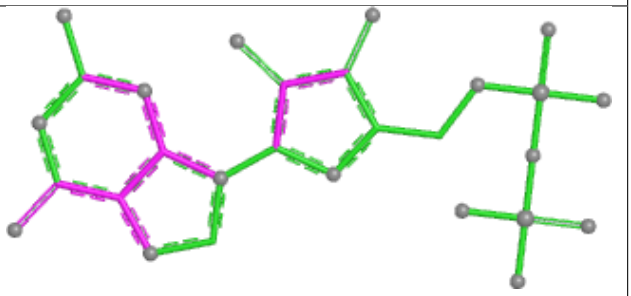

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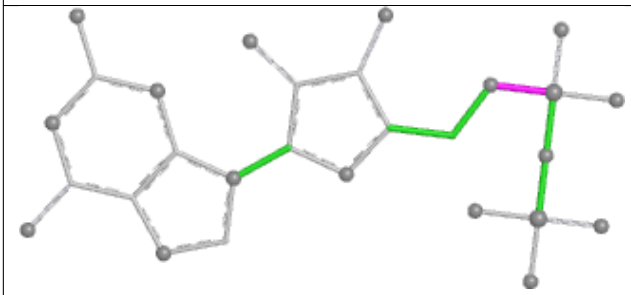

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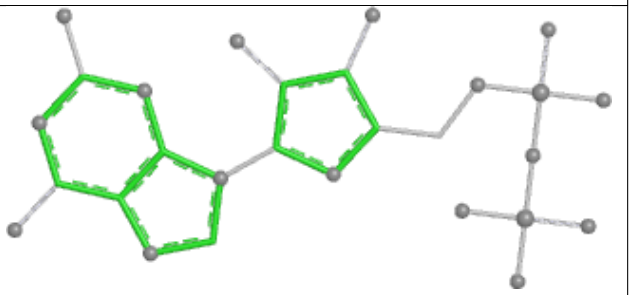
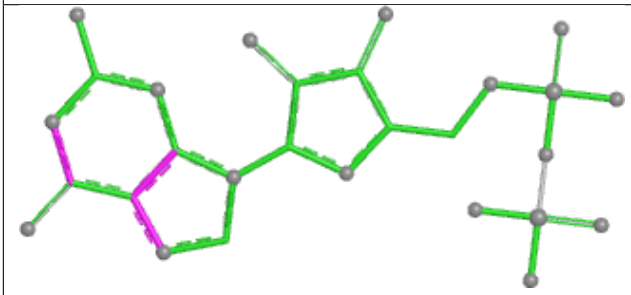


Rings

Ligand GDP HJ 500



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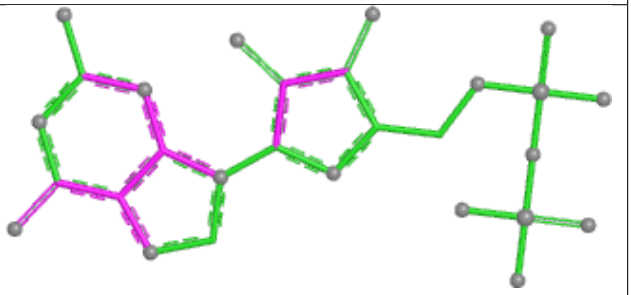

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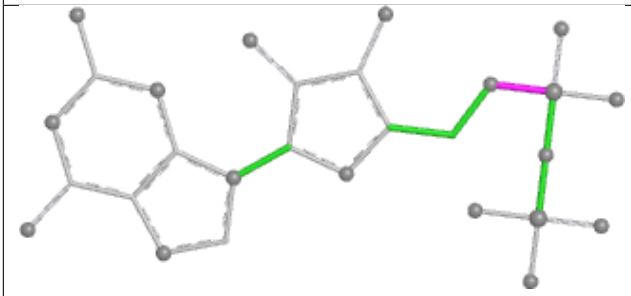

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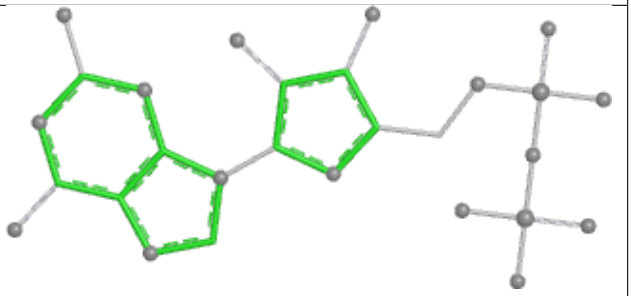

Rings

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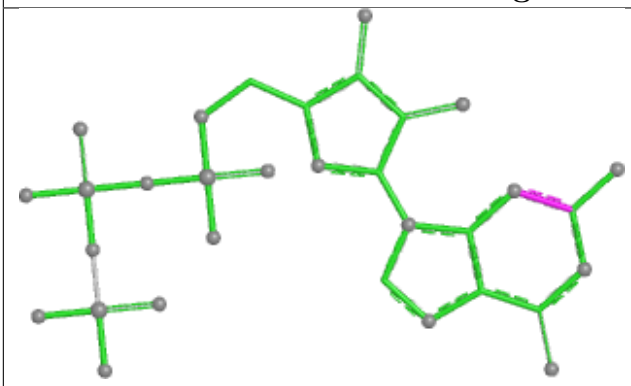

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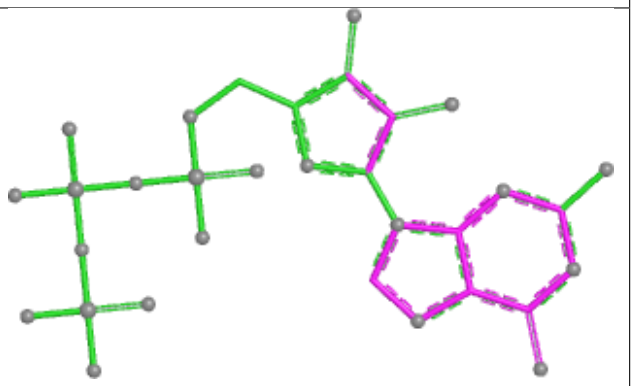

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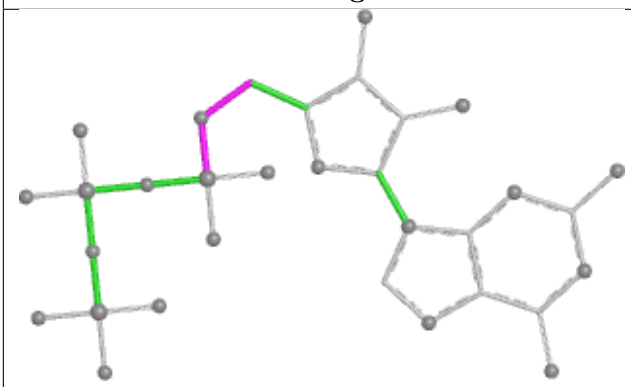

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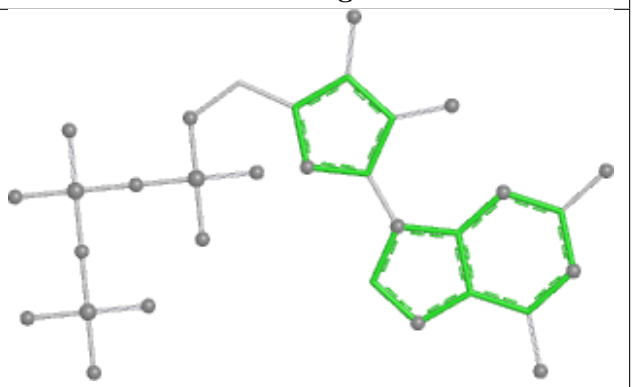

Rings

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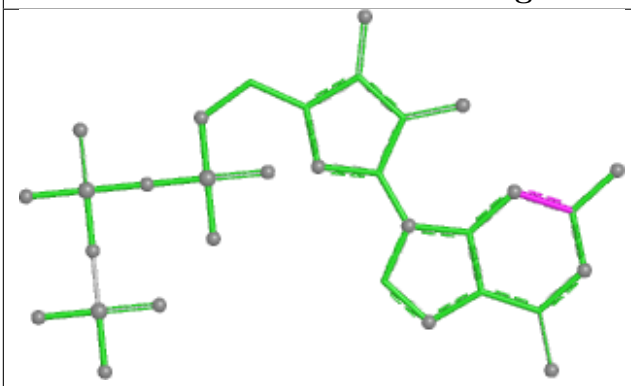

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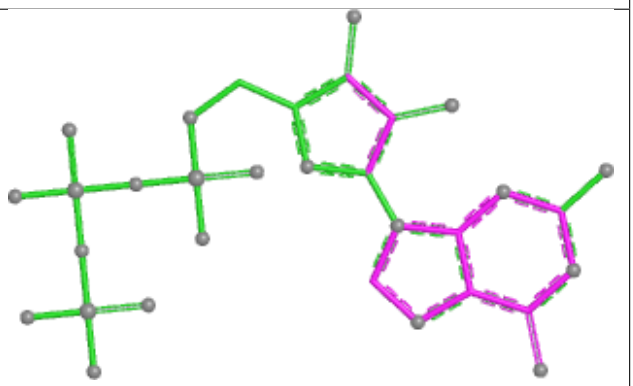

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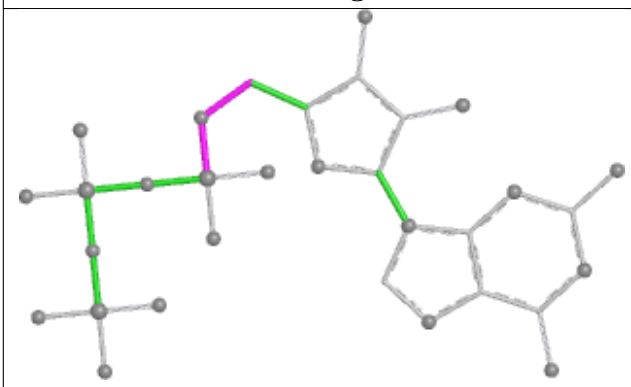

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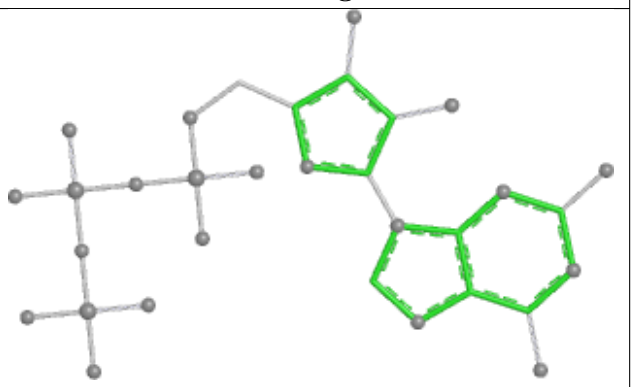

Rings

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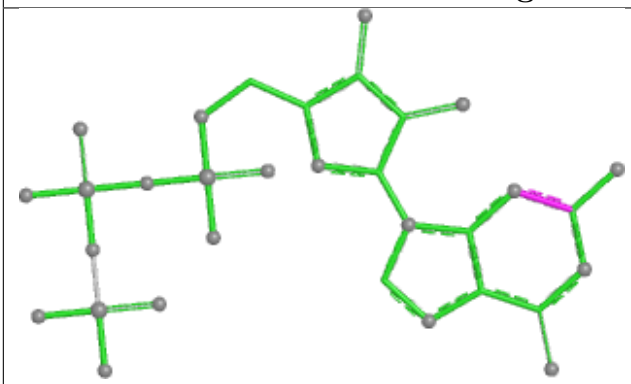

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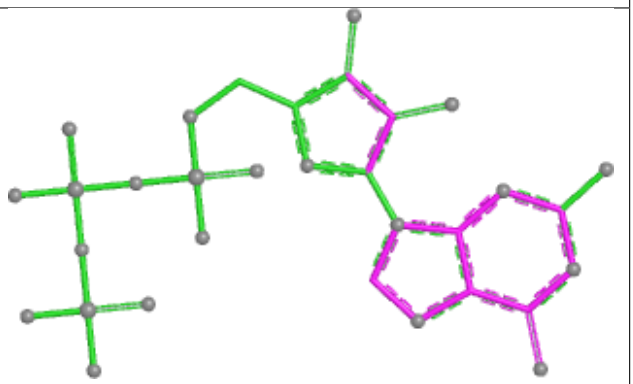

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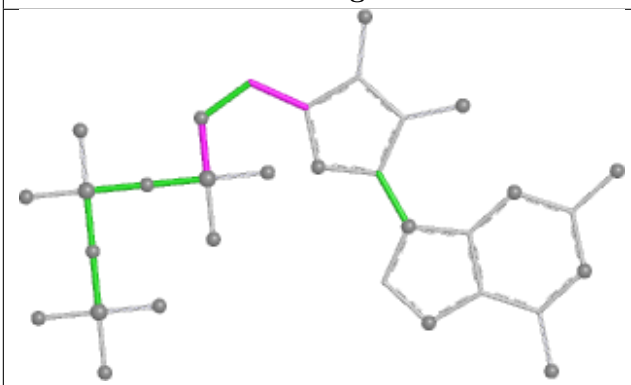

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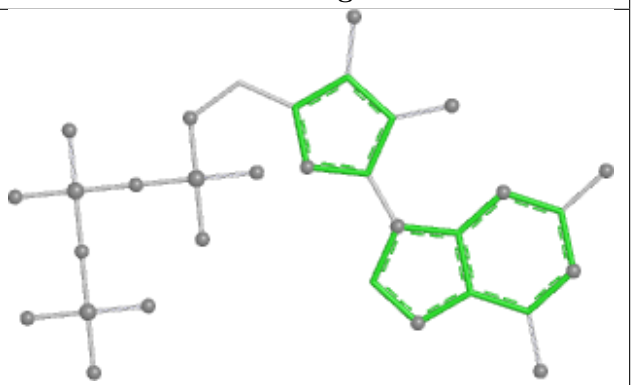

Rings

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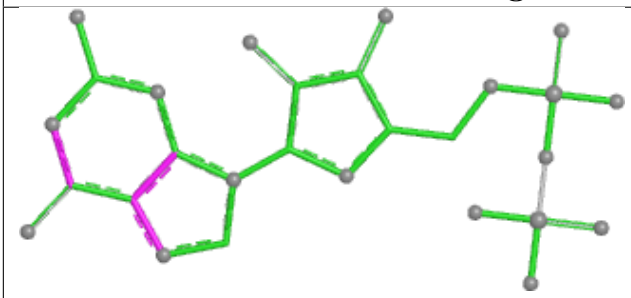

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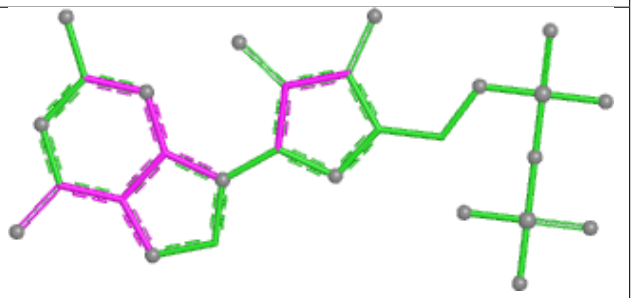

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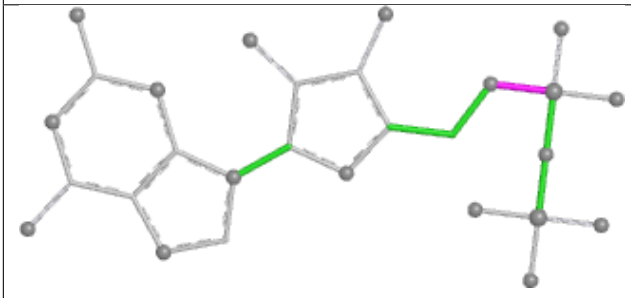

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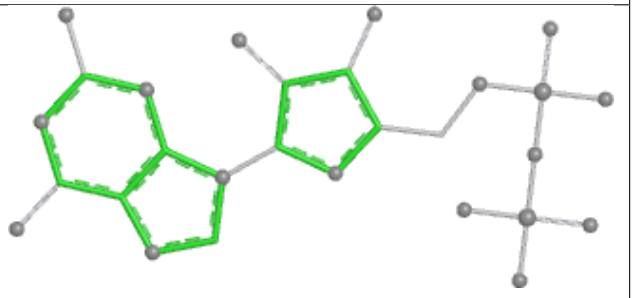

Rings

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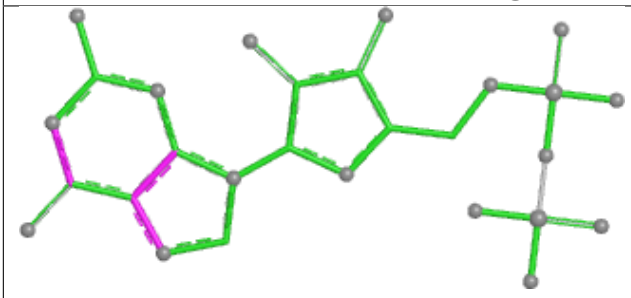

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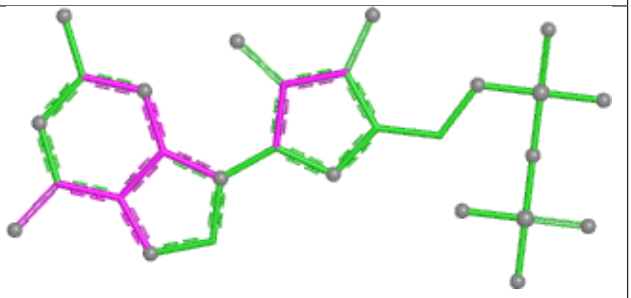

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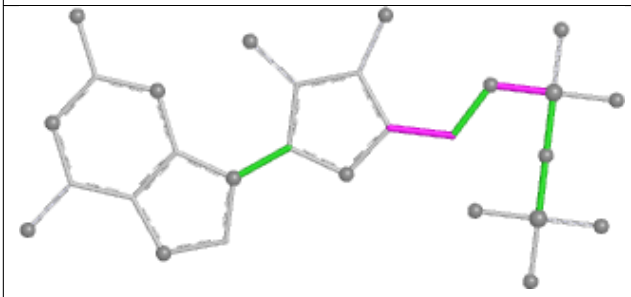

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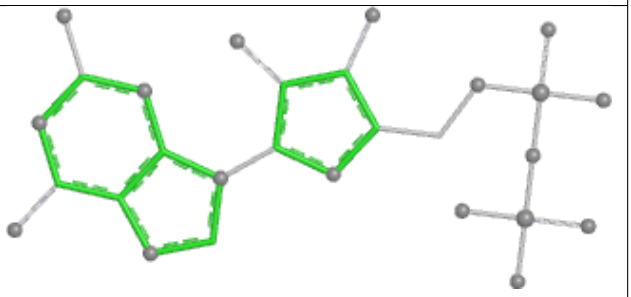

Rings

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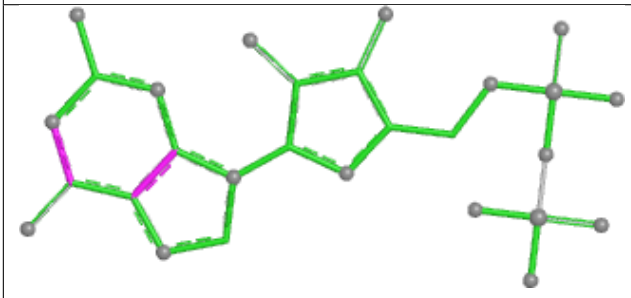

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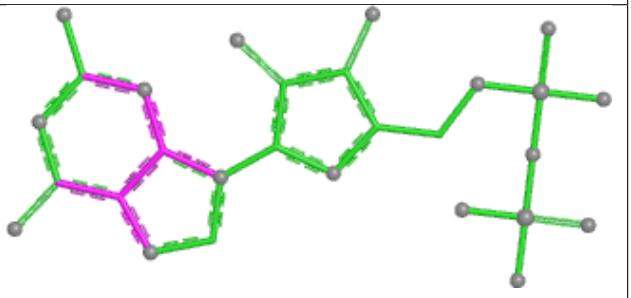

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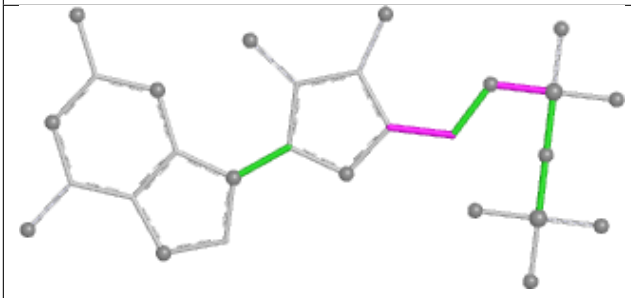

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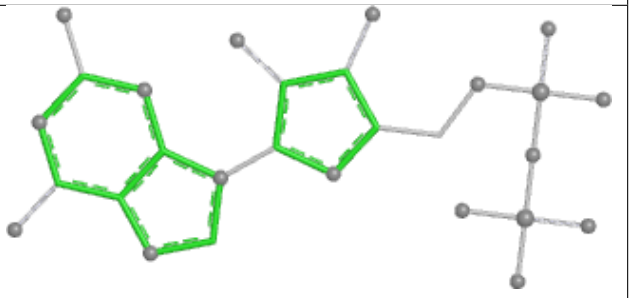

Rings

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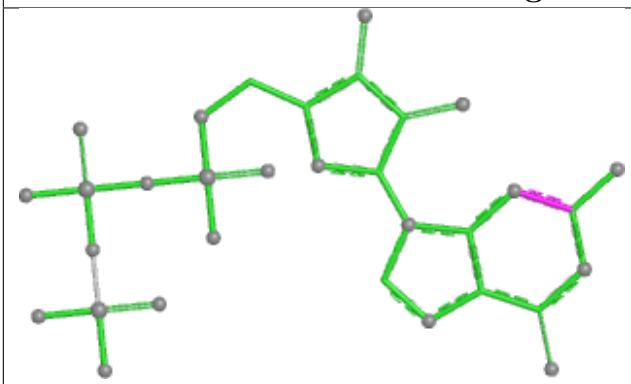

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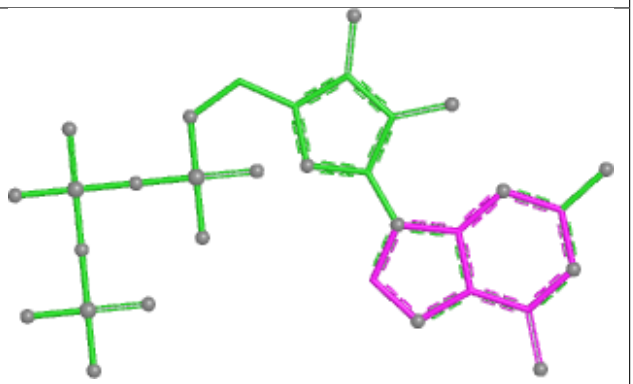

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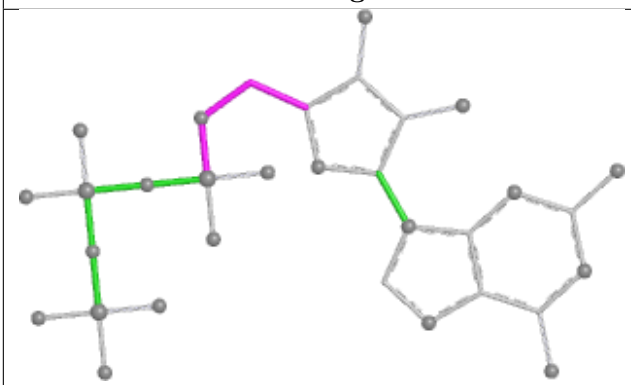

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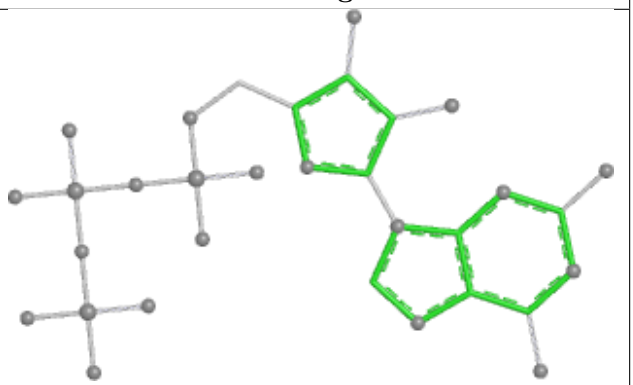
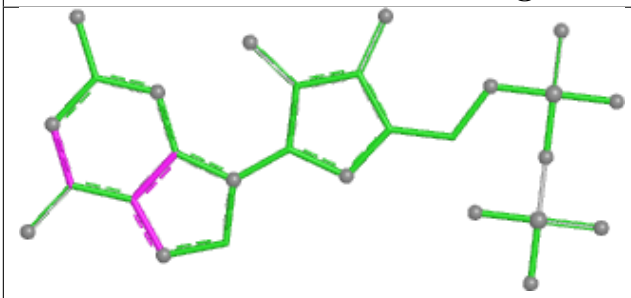


Rings

Ligand GDP W 500



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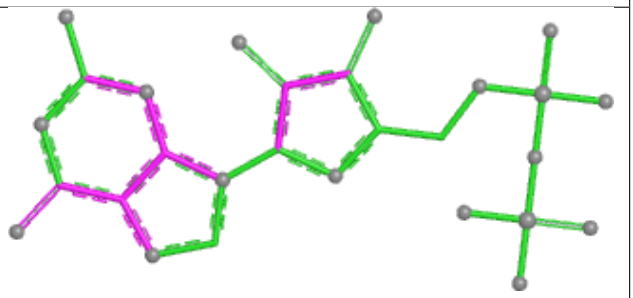

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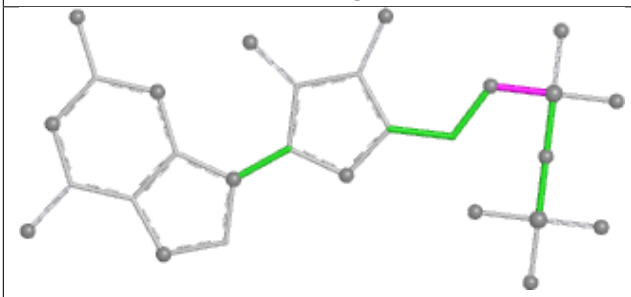

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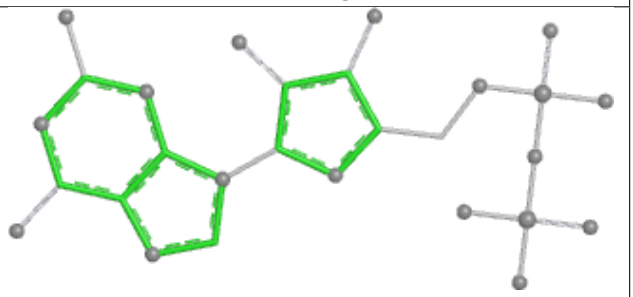
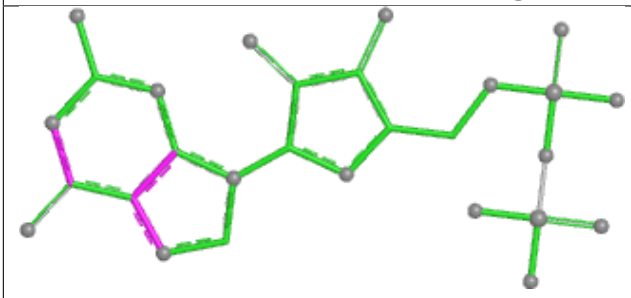


Rings

Ligand GDP OF 500



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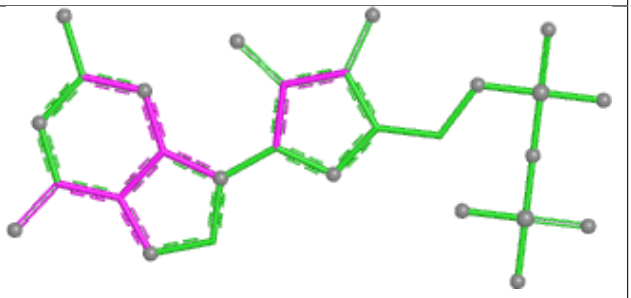

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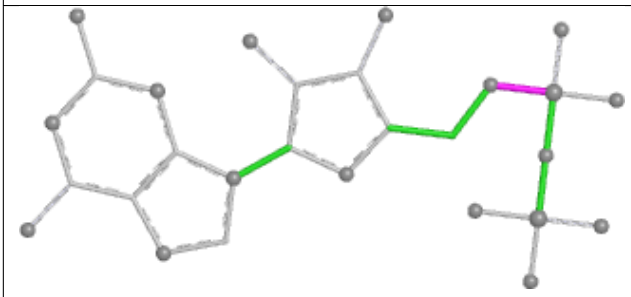

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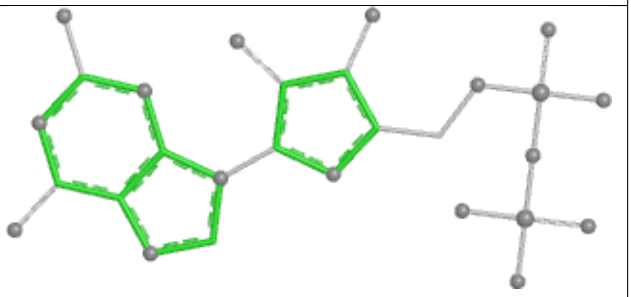
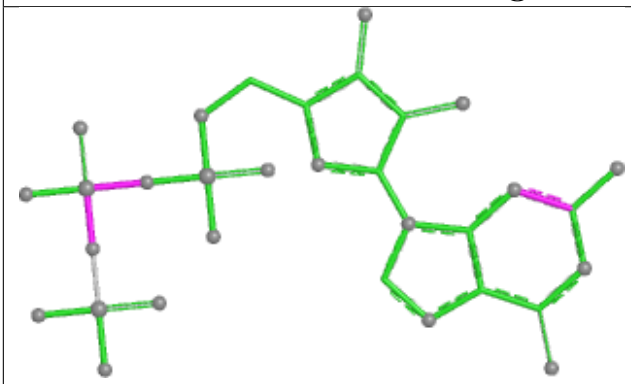


Rings

Ligand GTP VG 501



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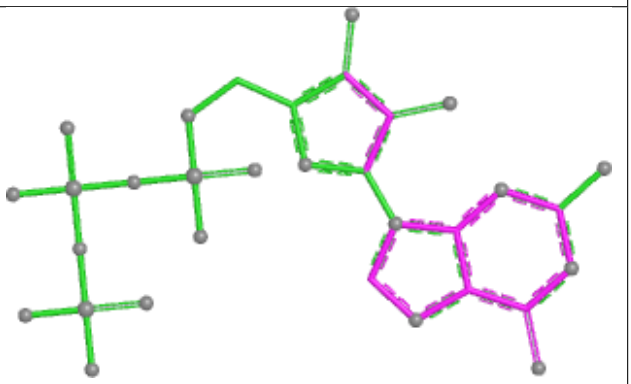

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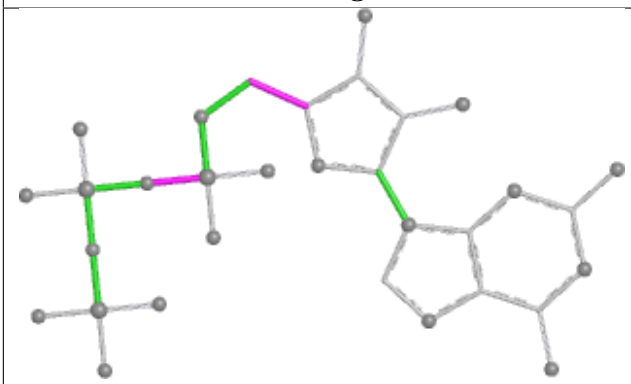

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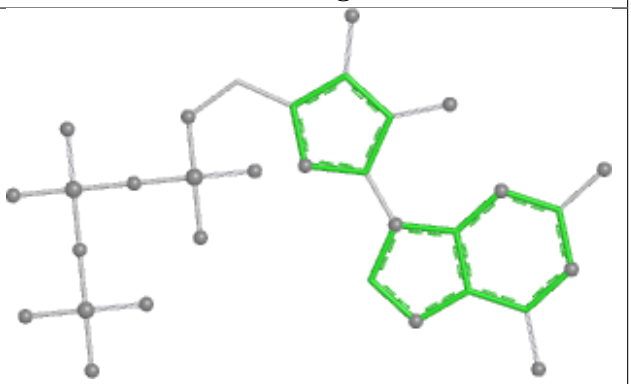

Rings

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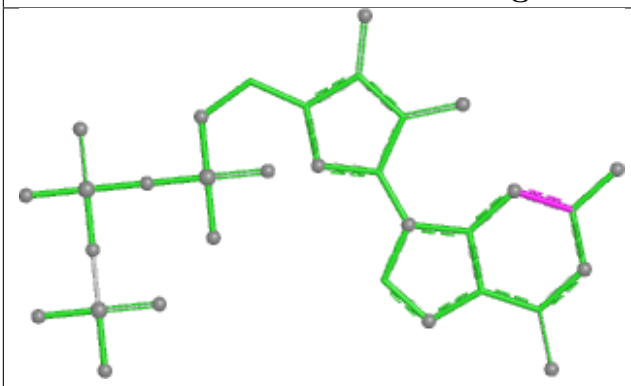

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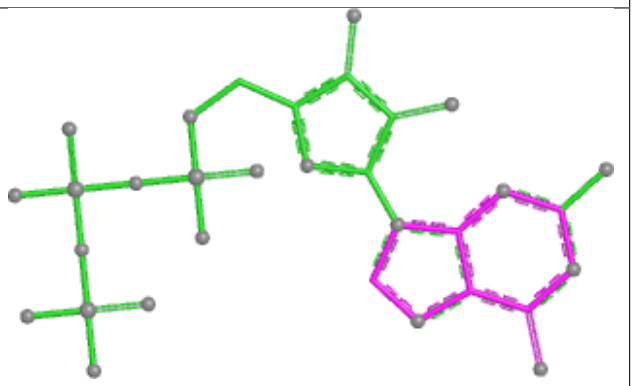

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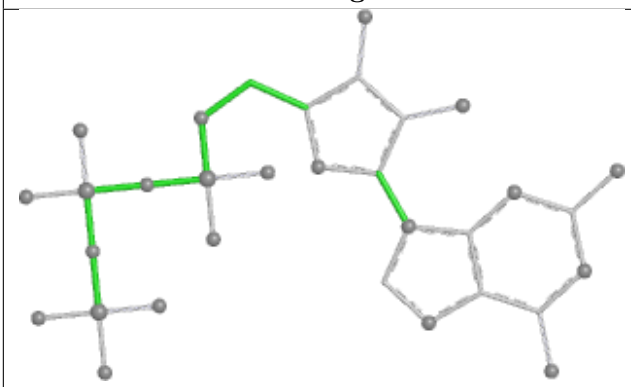

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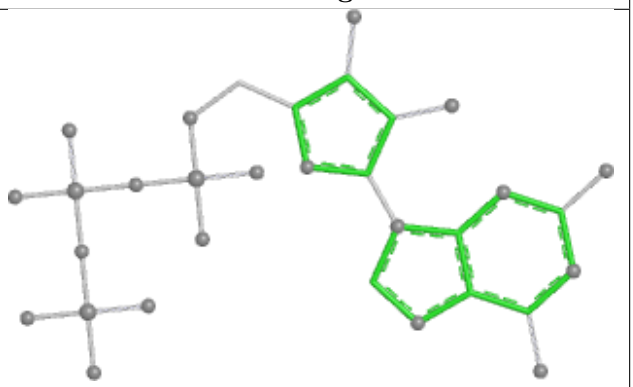
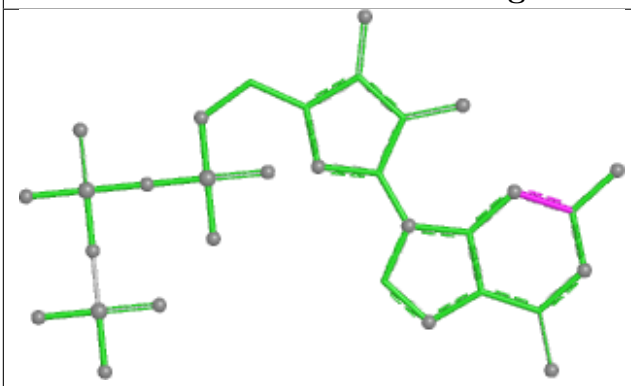


Rings

Ligand GTP OG 501



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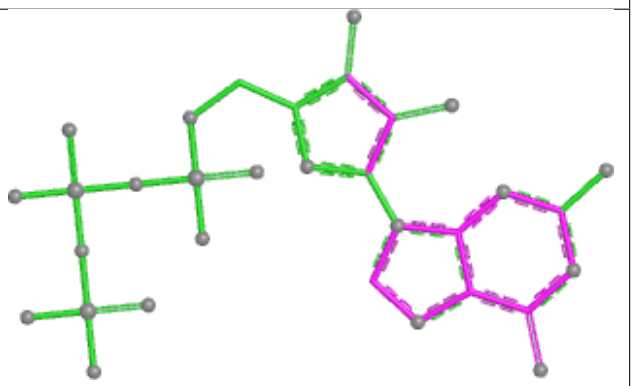

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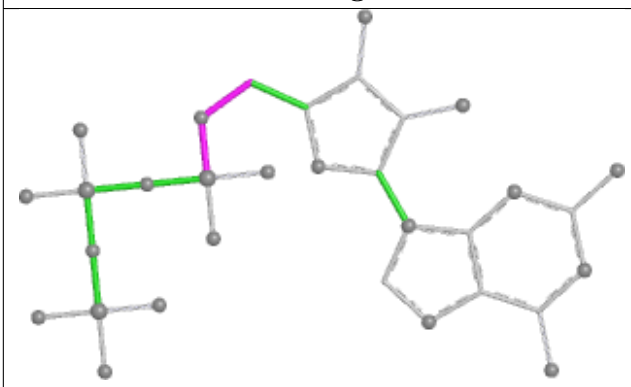
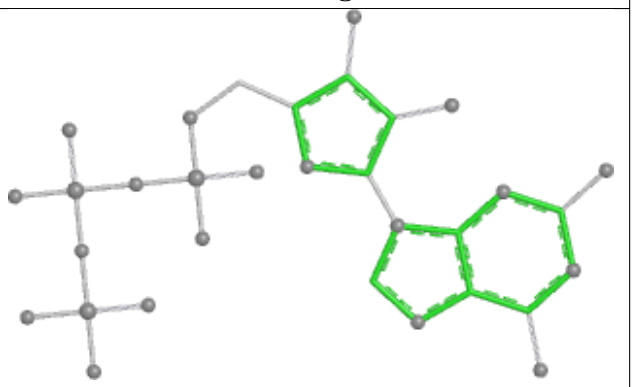
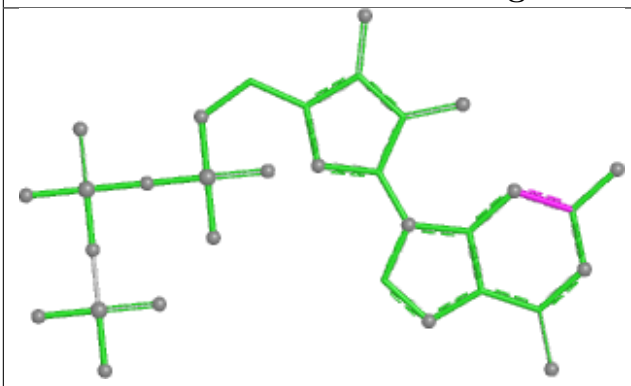


Torsions



Rings

Ligand GTP KD 501



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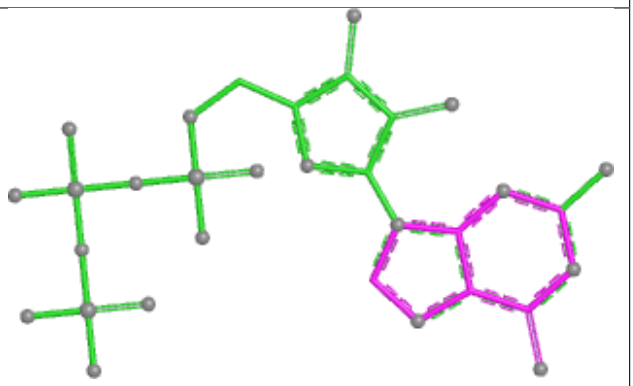

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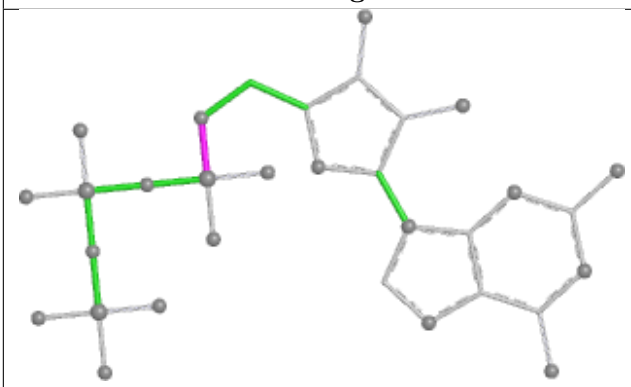

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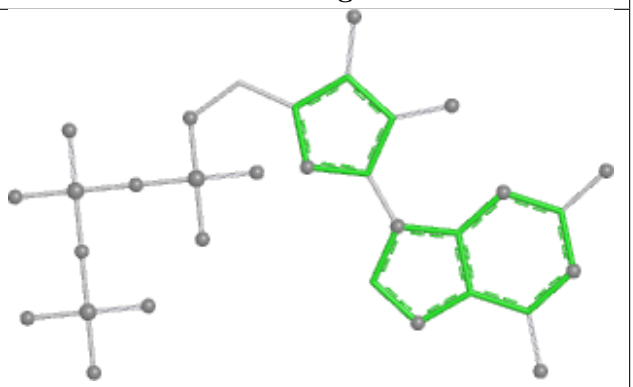
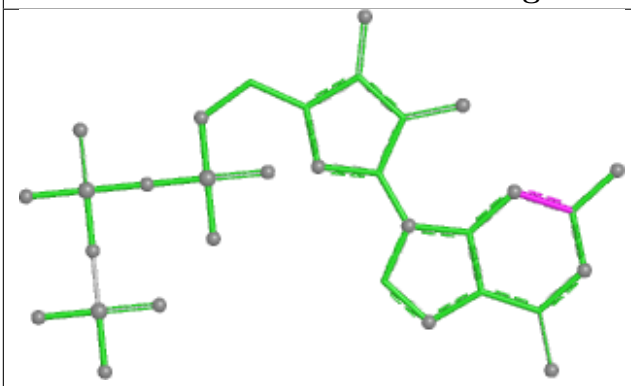


Rings

Ligand GTP C 501



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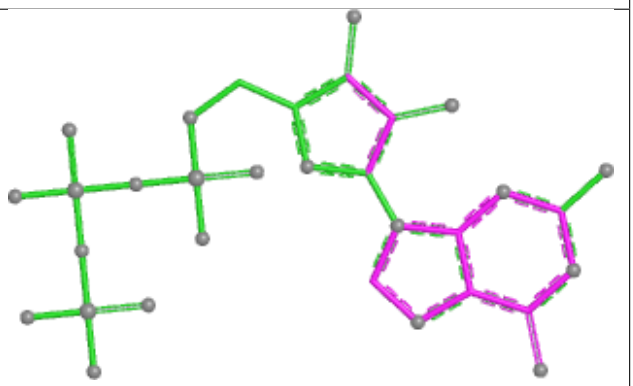

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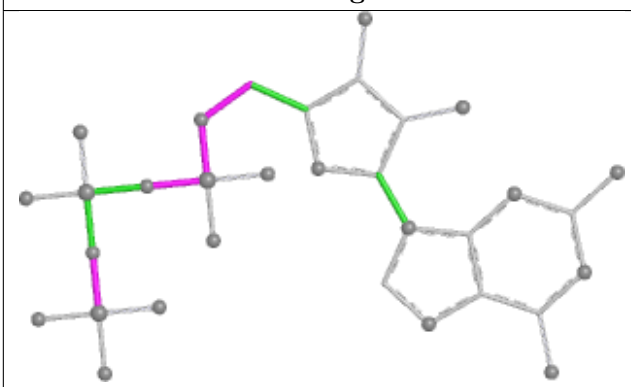

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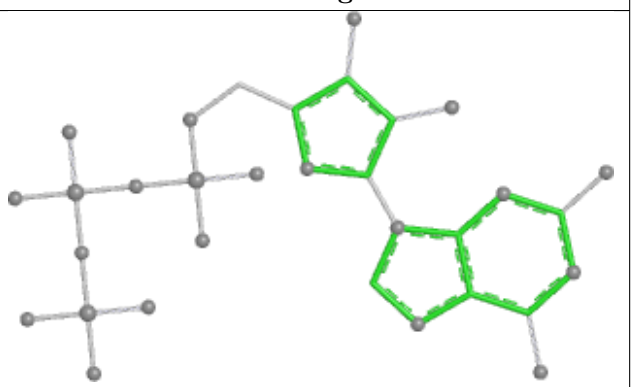
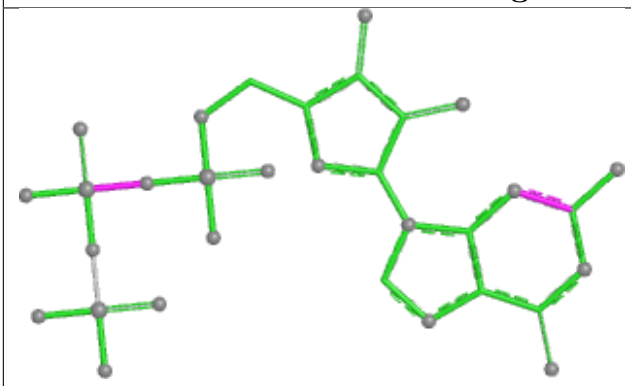


Rings

Ligand GTP KL 501



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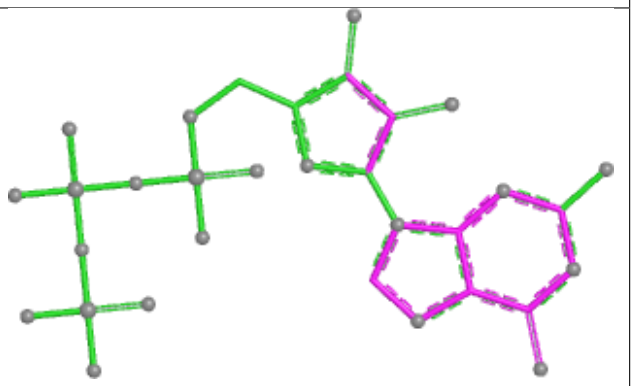

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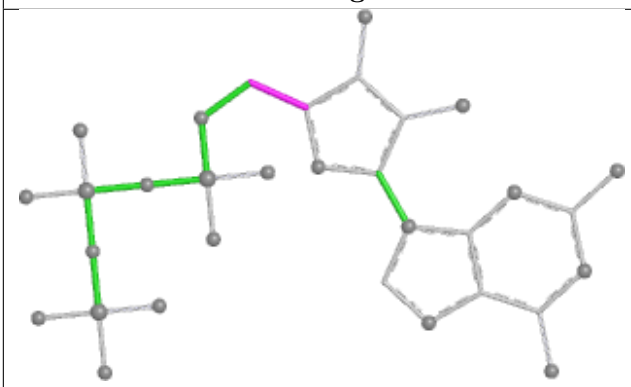

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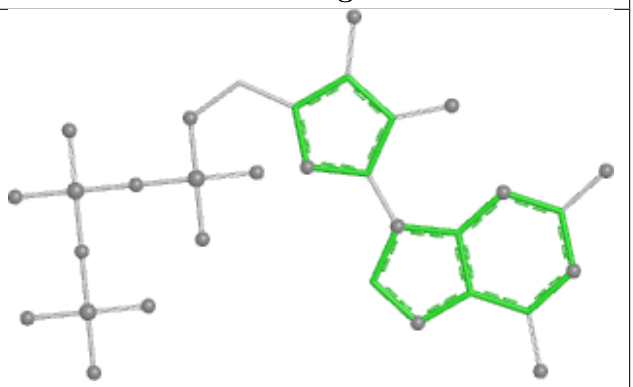
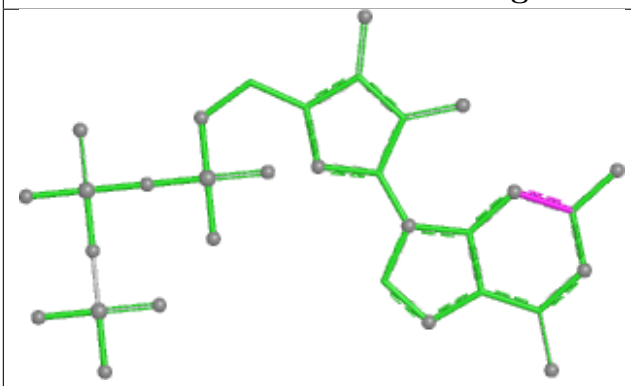


Rings

Ligand GTP QF 501



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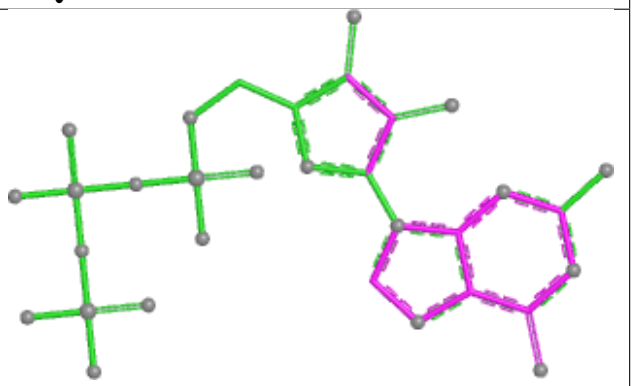

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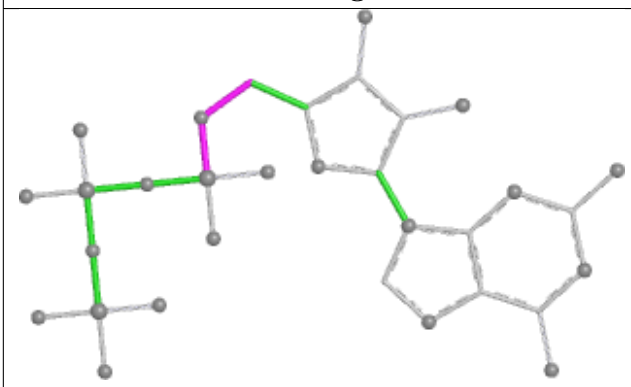

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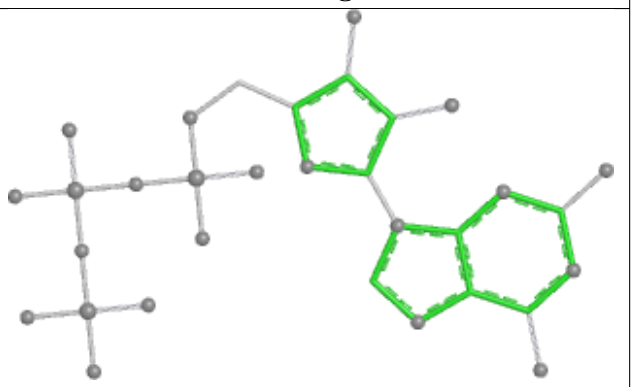
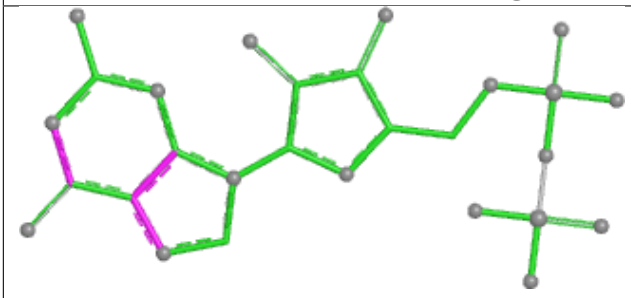


Rings

Ligand GDP JM 500



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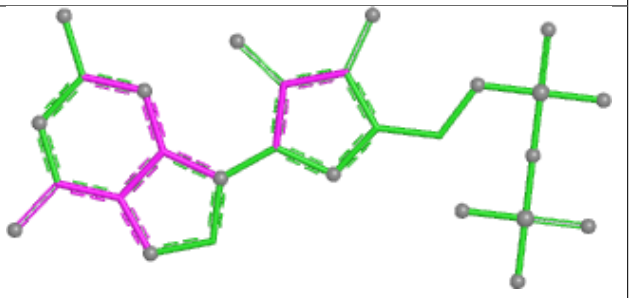

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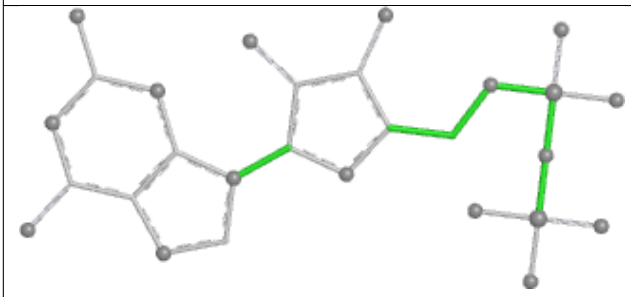

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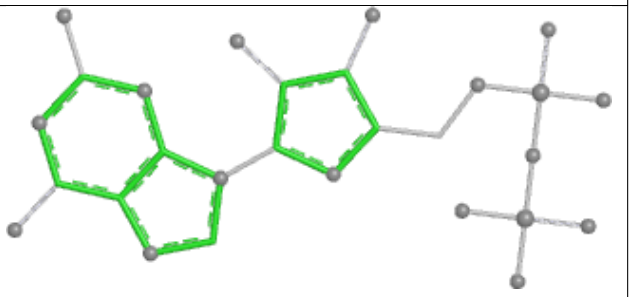
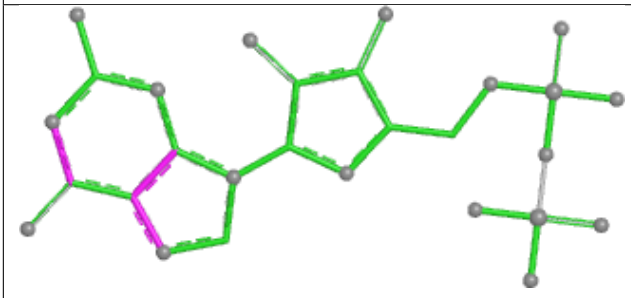


Rings

Ligand GDP M 500



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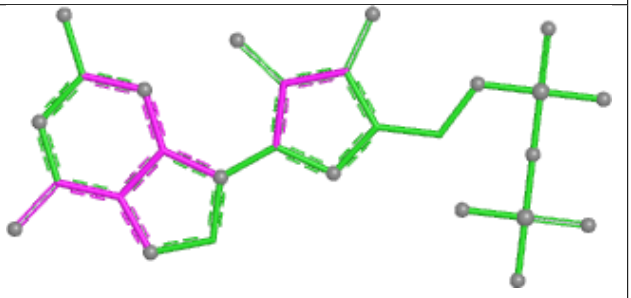

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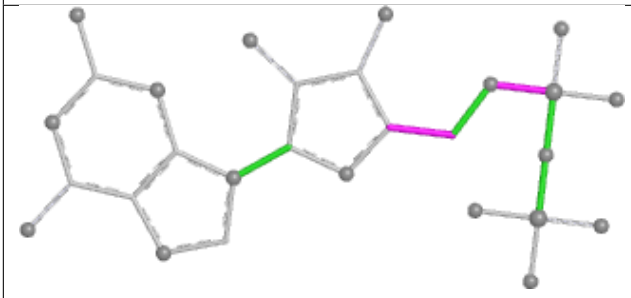

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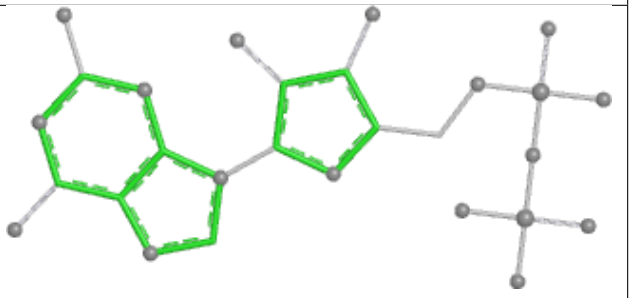
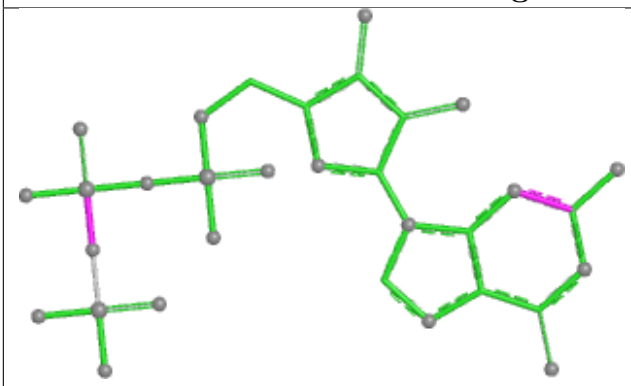


Rings

Ligand GTP CF 501



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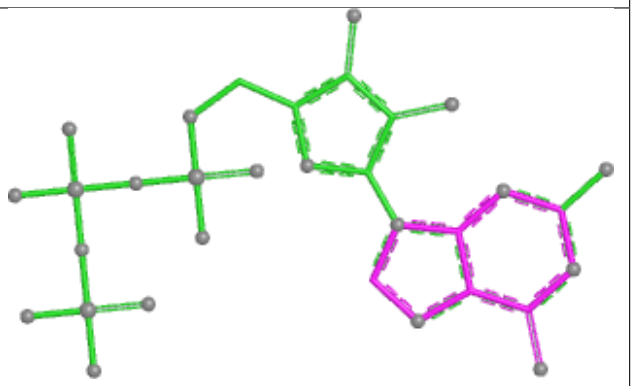

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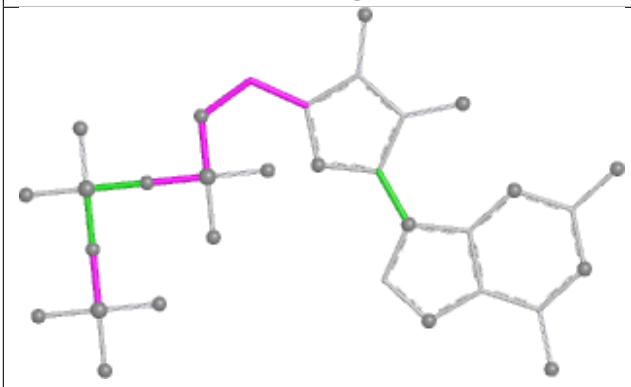

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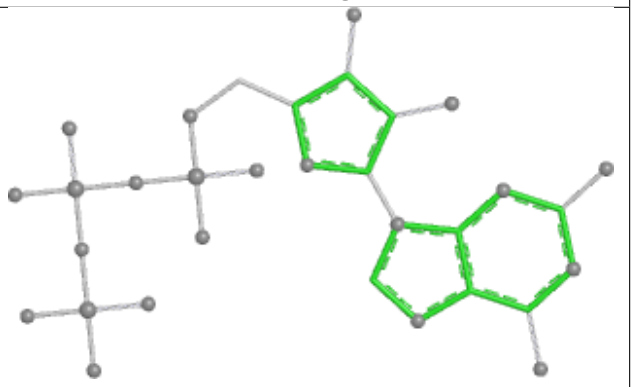
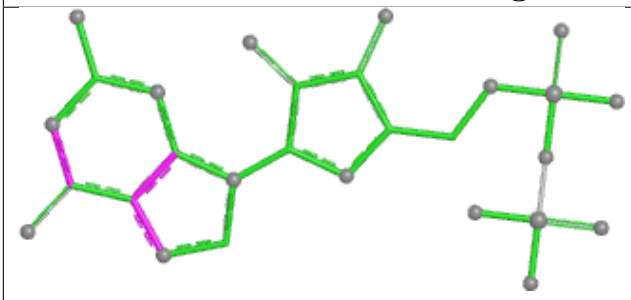


Rings

Ligand GDP BF 500



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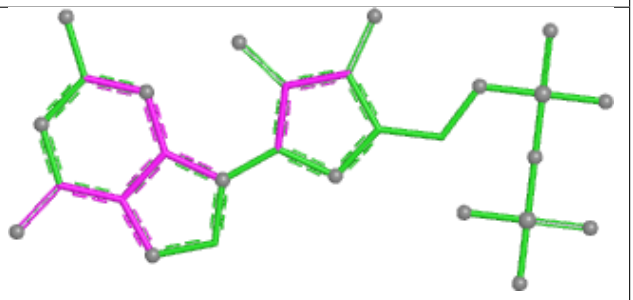

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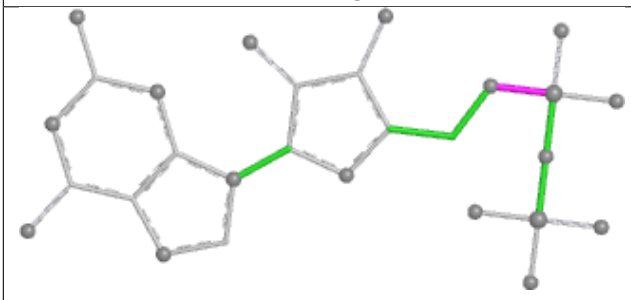

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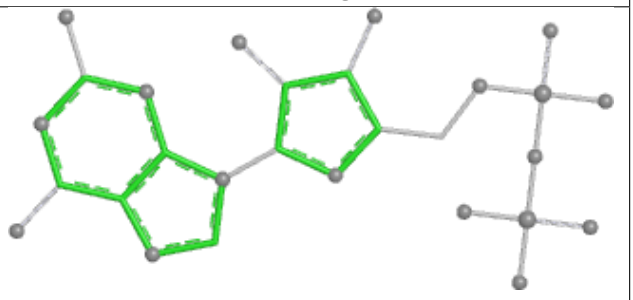
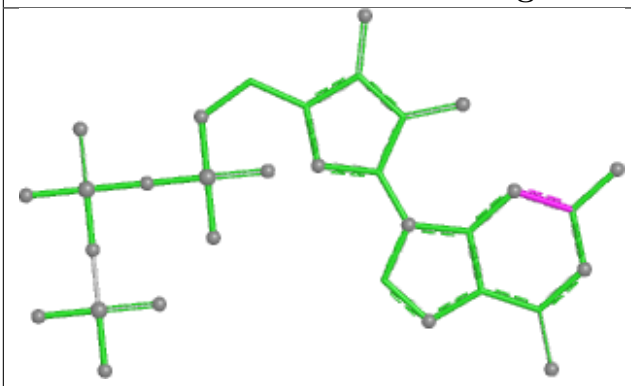


Rings

Ligand GTP JJ 501



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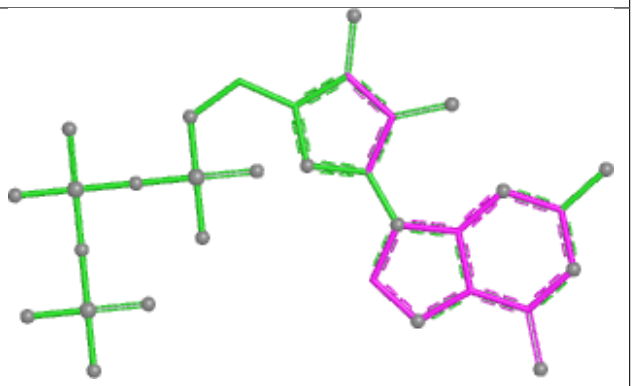

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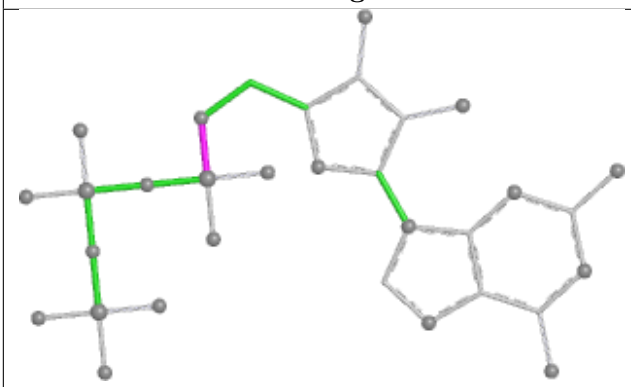

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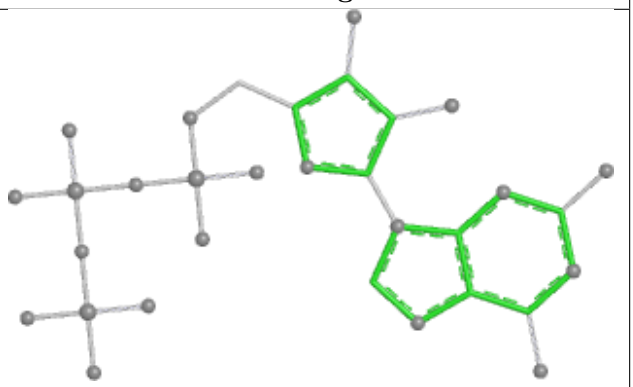
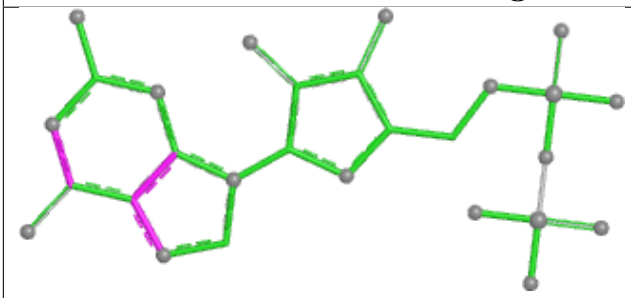


Rings

Ligand GDP FH 500



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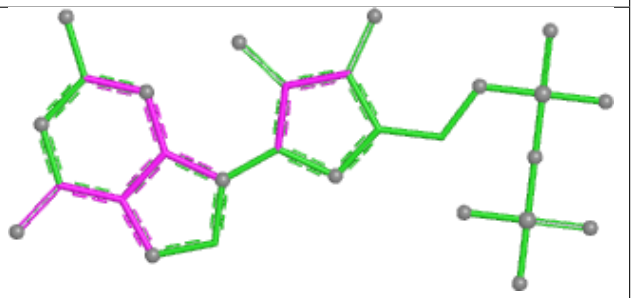

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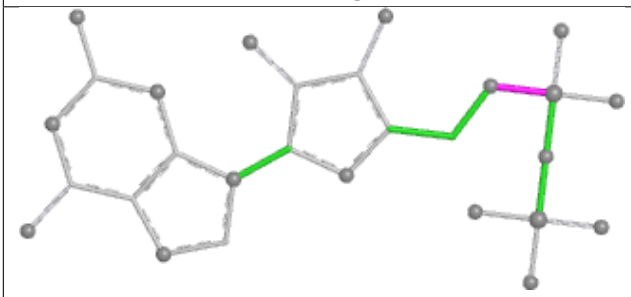

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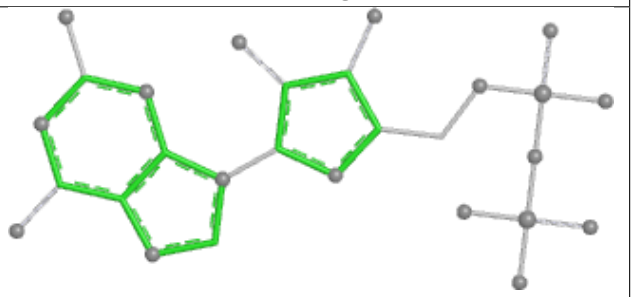
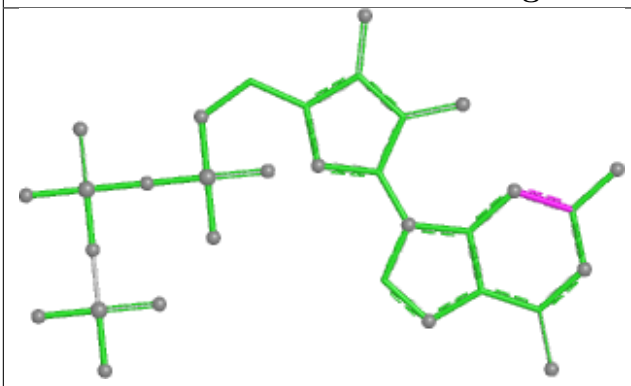


Rings

Ligand GTP R 501



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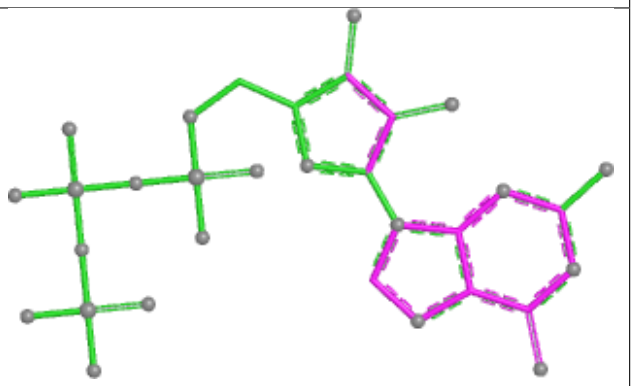
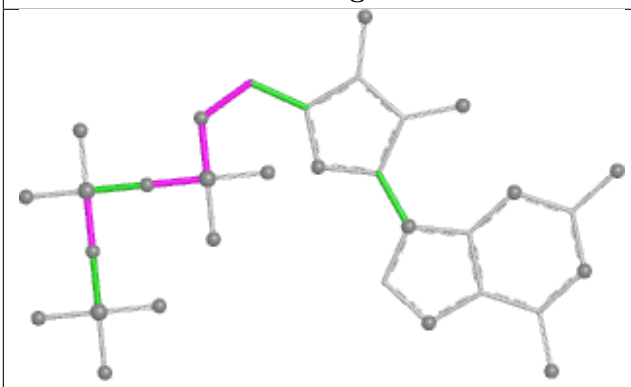


Bond angles



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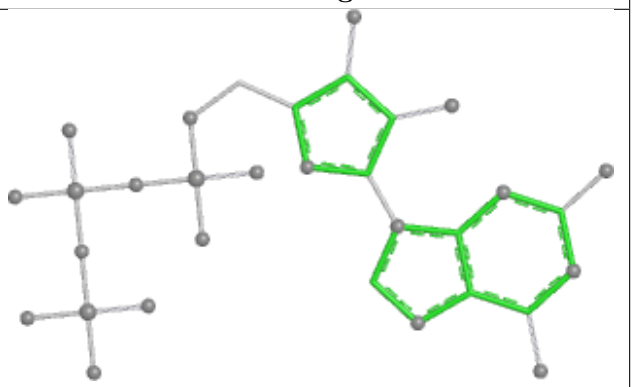
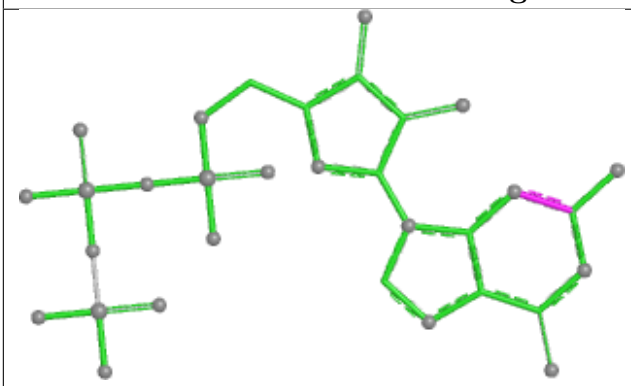


Rings

Ligand GTP EG 501



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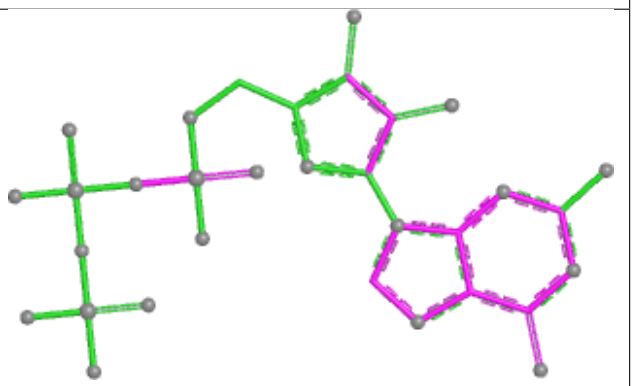
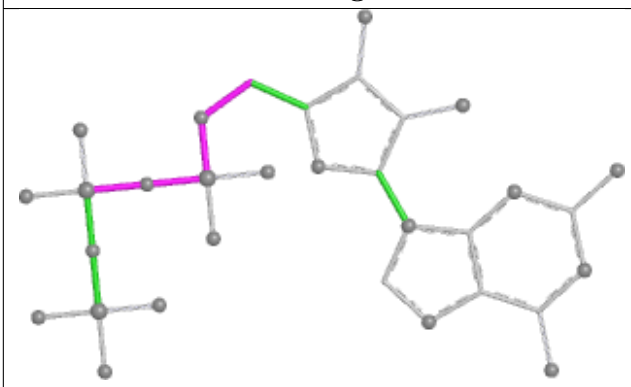


Bond angles



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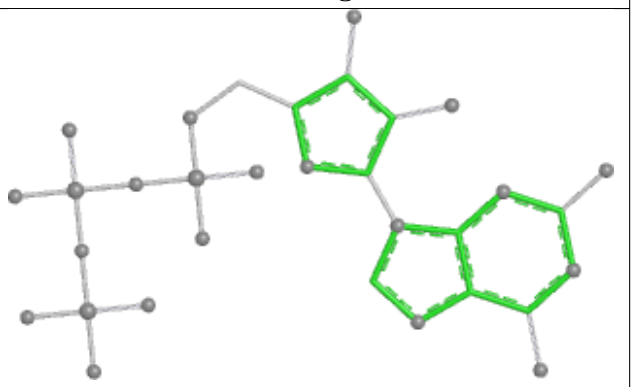
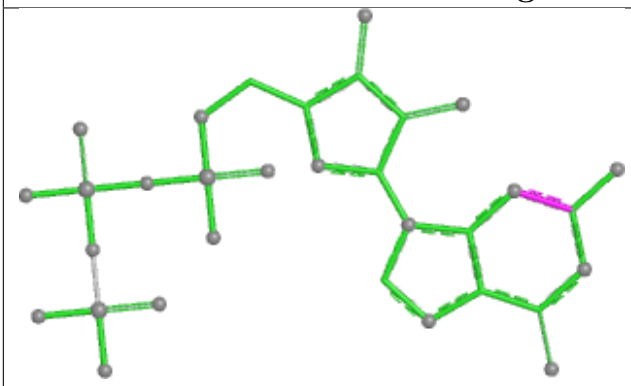


Rings

Ligand GTP IE 501



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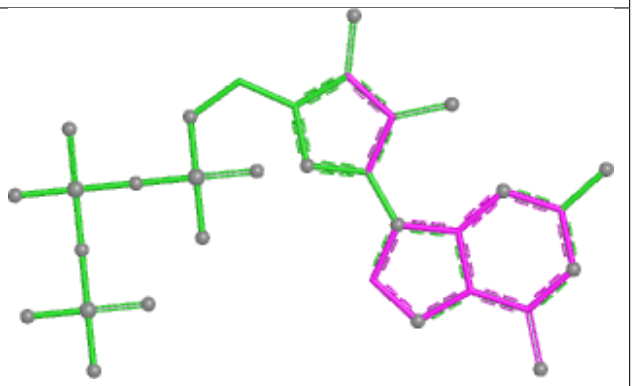
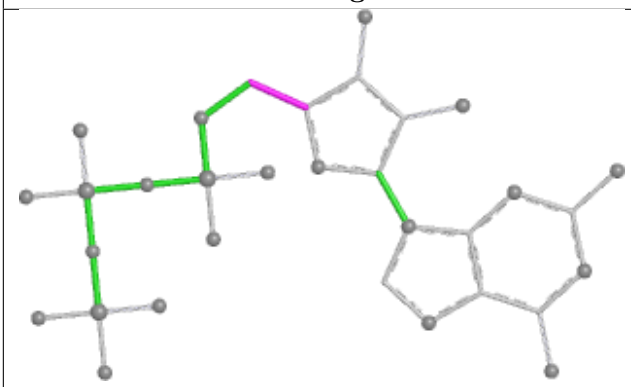


Bond angles



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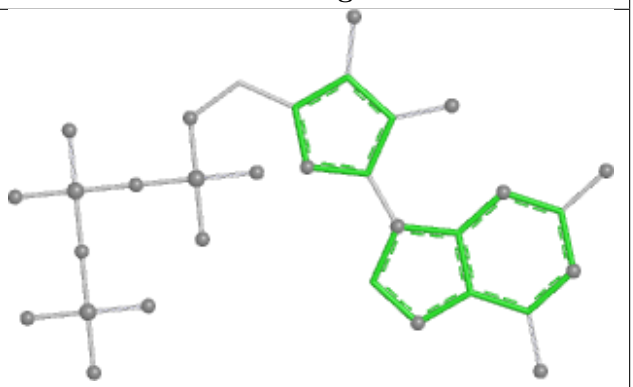
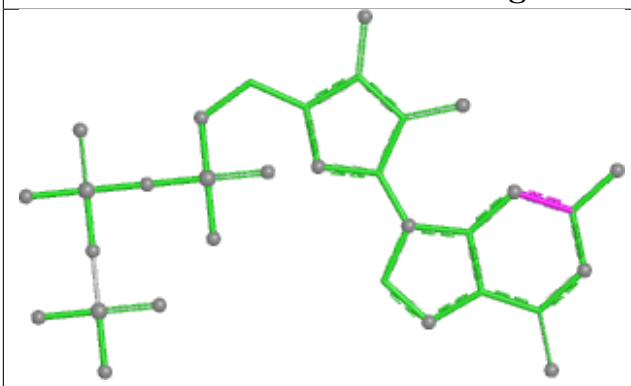


Rings

Ligand GTP BG 501



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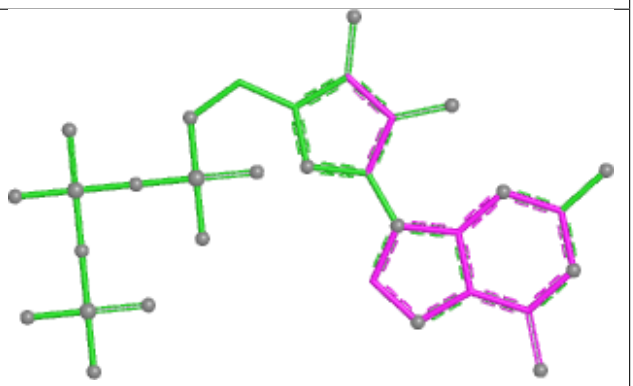

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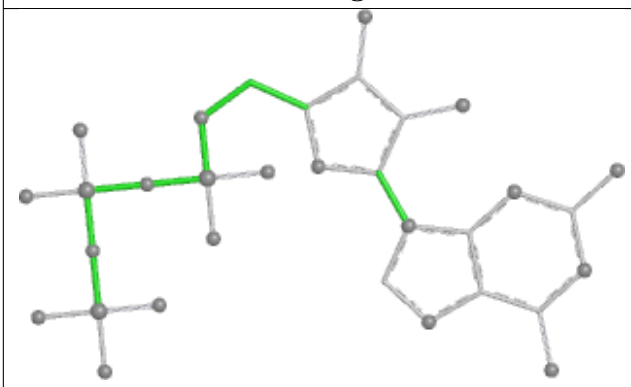
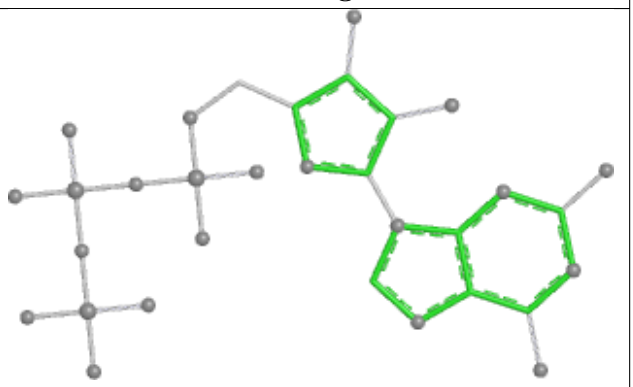
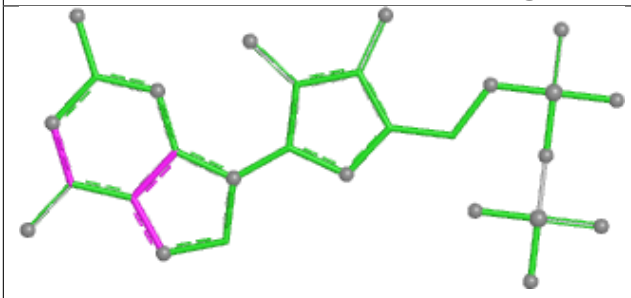


Torsions



Rings

Ligand GDP U 500



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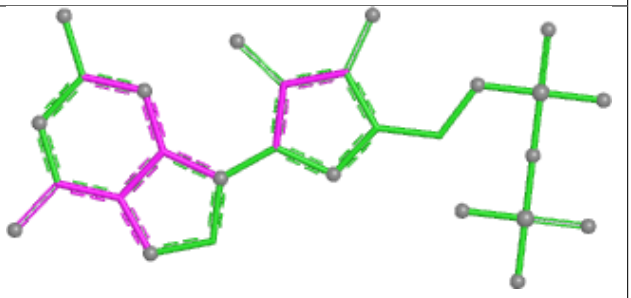

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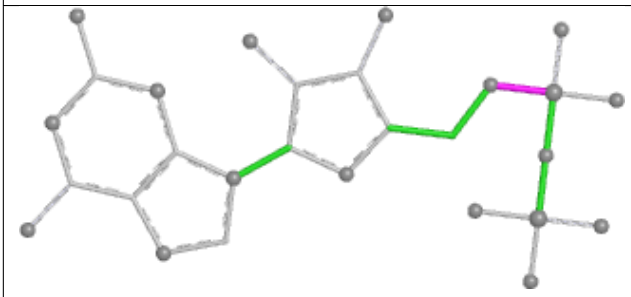

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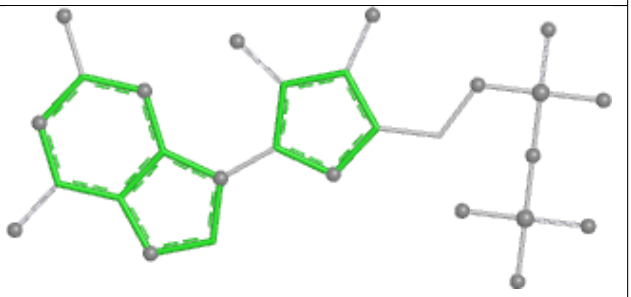
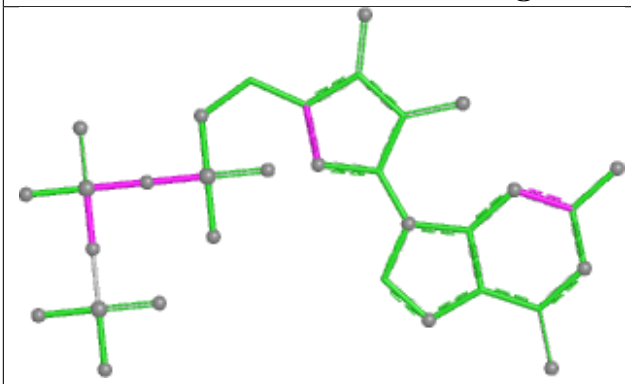


Rings

Ligand GTP IK 501



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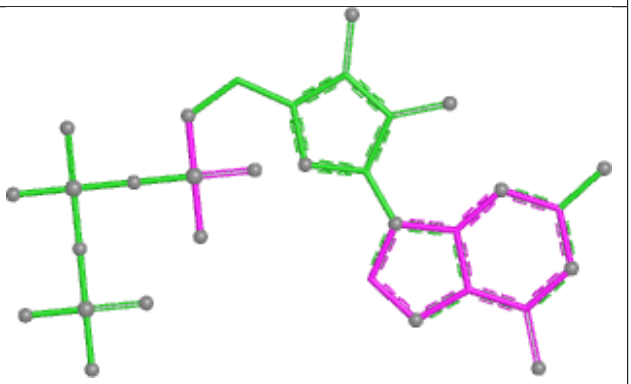

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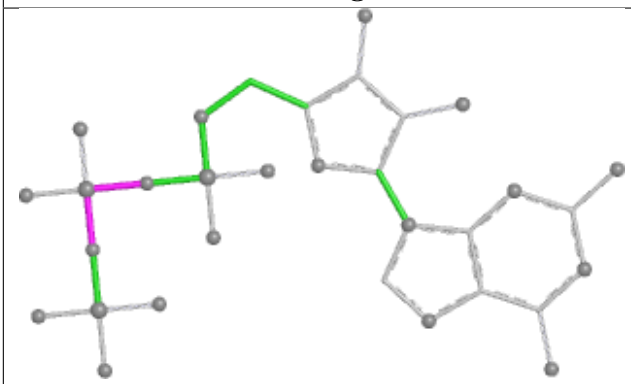

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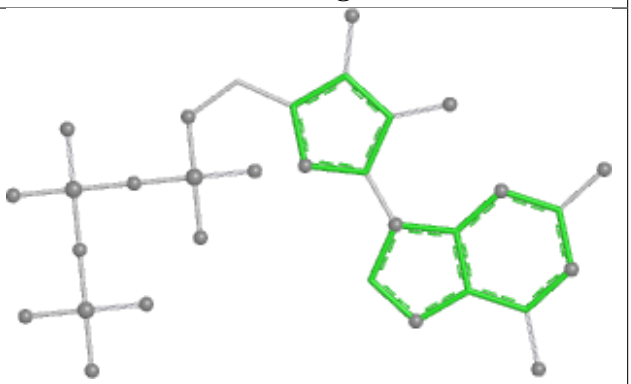
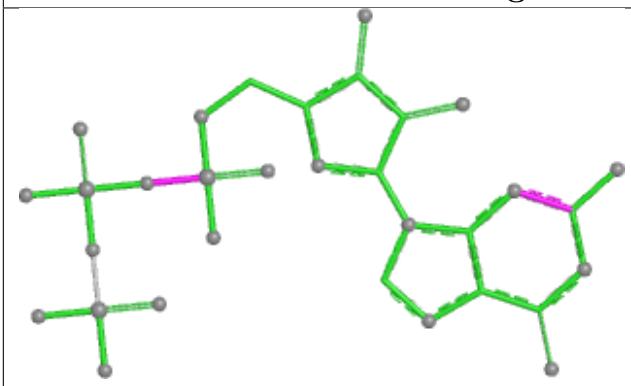


Rings

Ligand GTP GK 501



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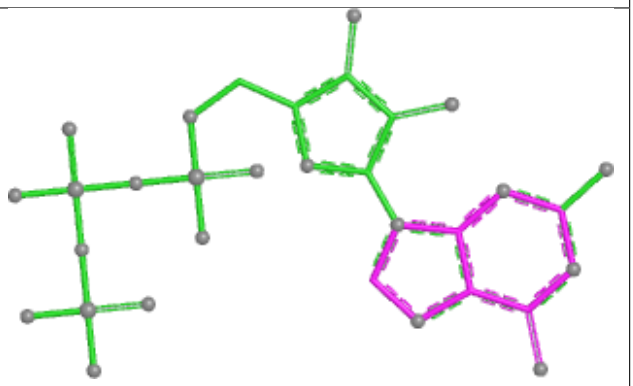

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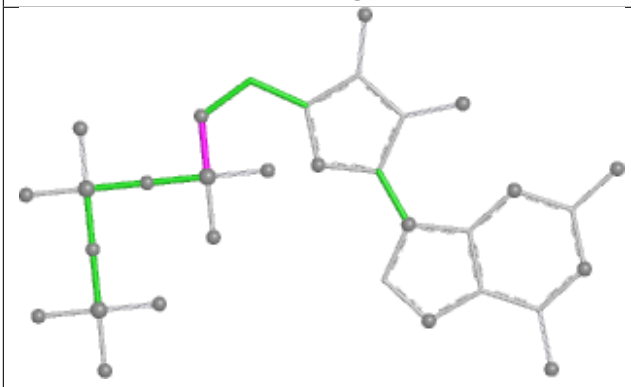

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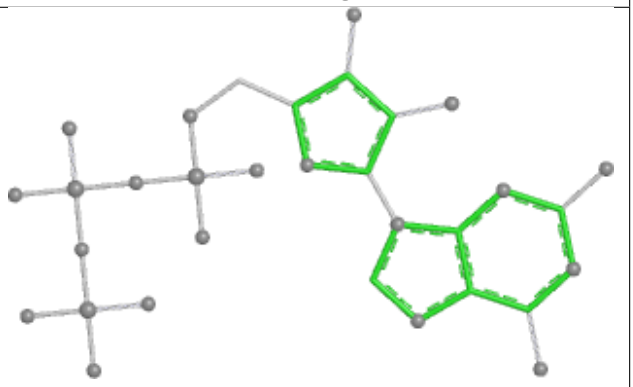
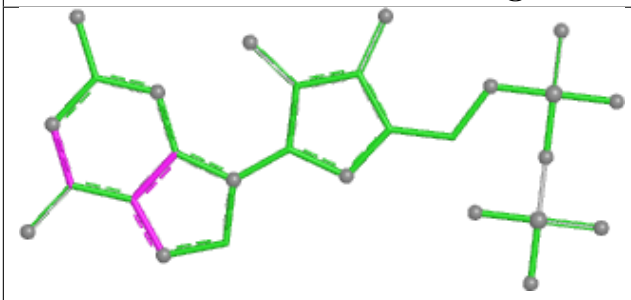


Rings

Ligand GDP ML 500



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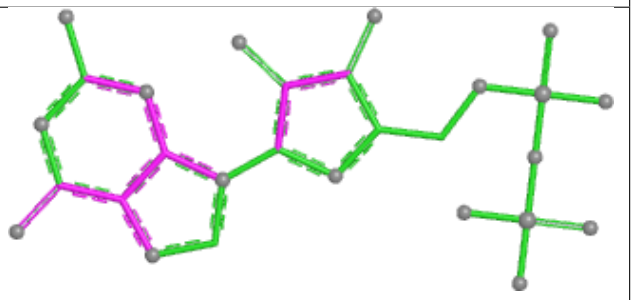

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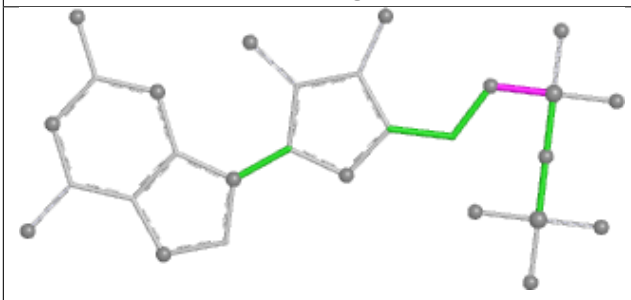

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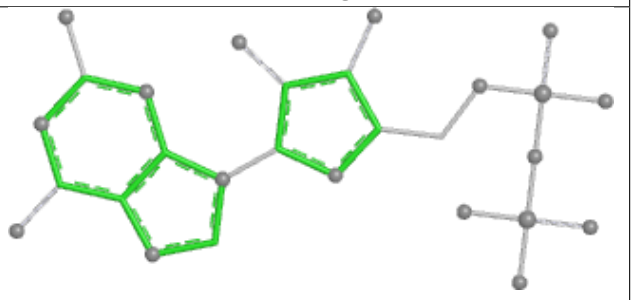
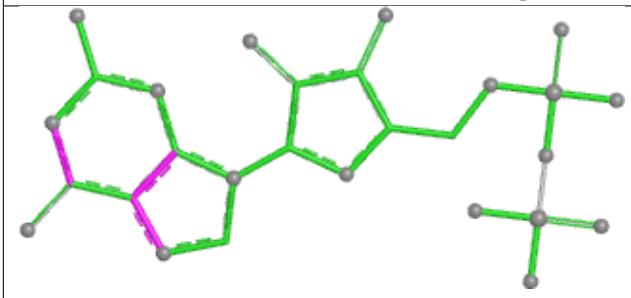


Rings

Ligand GDP QI 500



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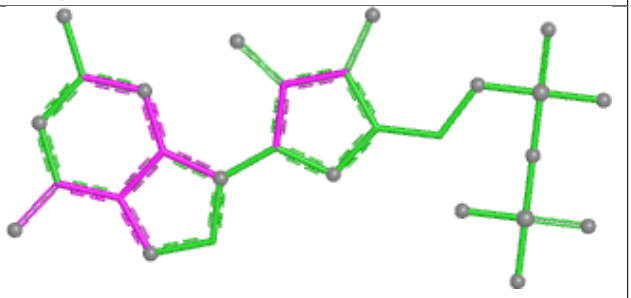

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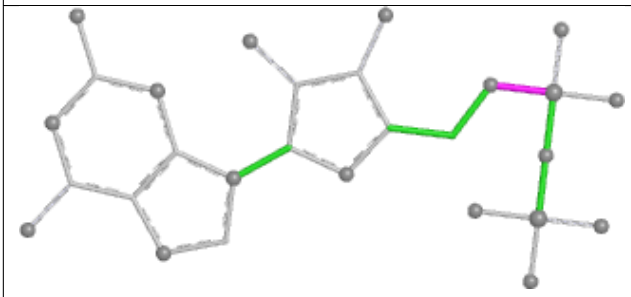

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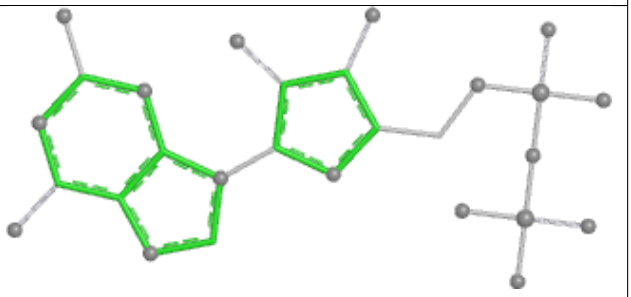
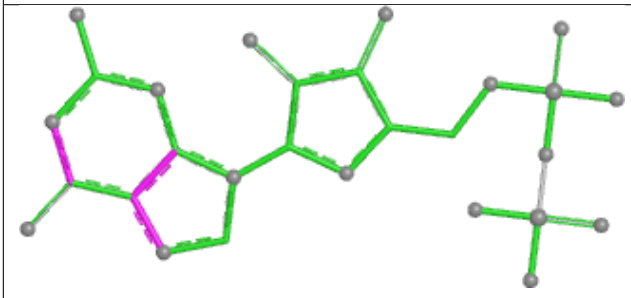


Rings

Ligand GDP LC 500



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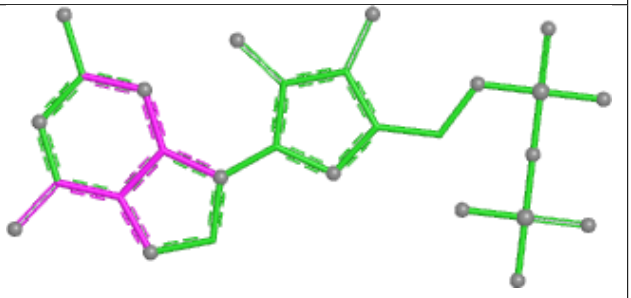

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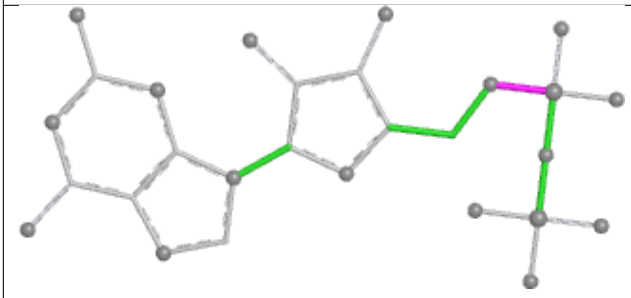

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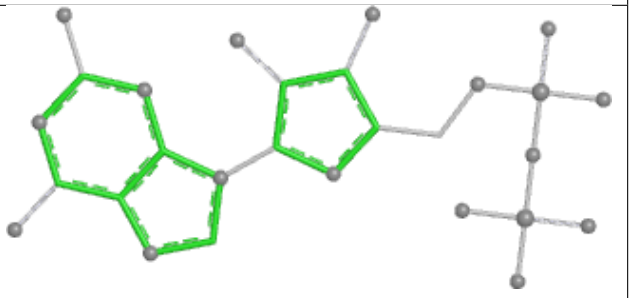
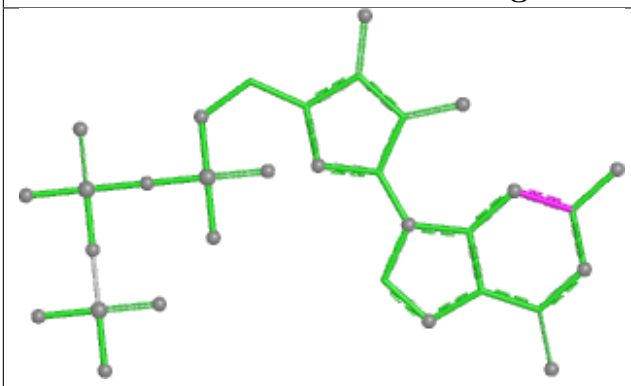


Rings

Ligand GTP VE 501



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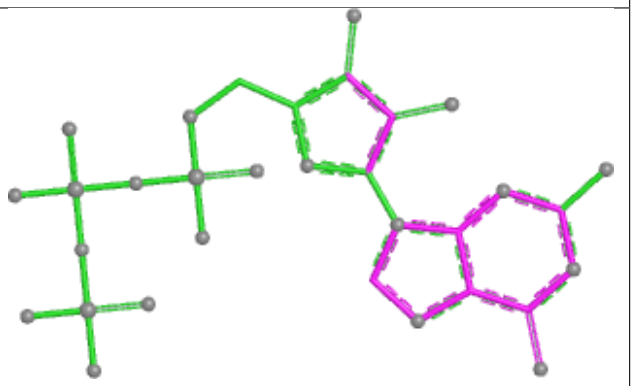

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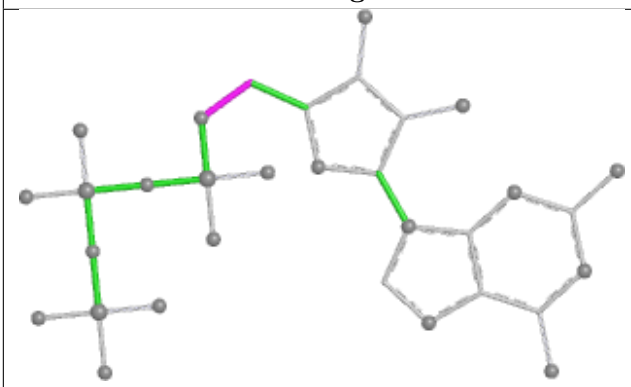

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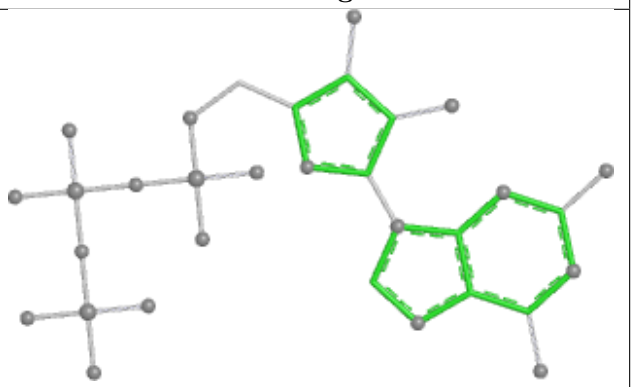
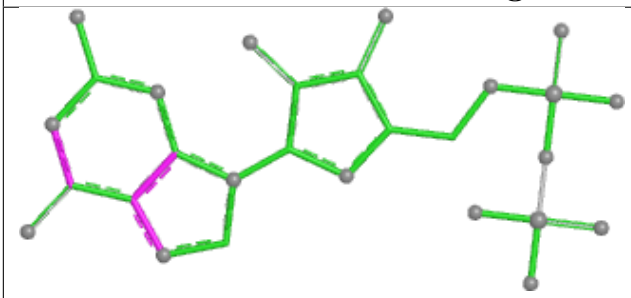


Rings

Ligand GDP GH 500



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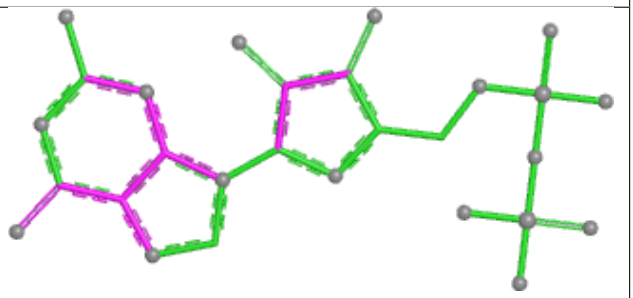

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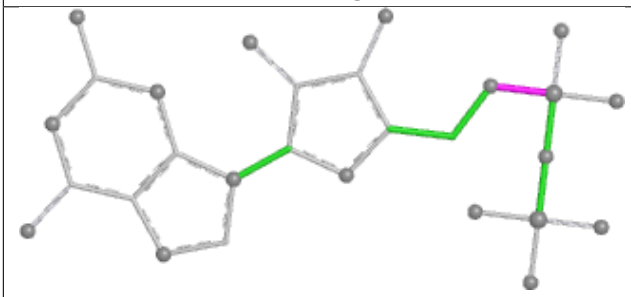

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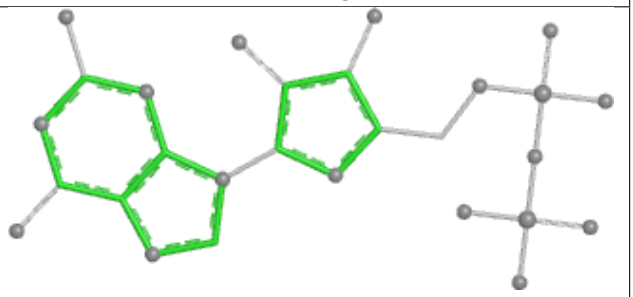
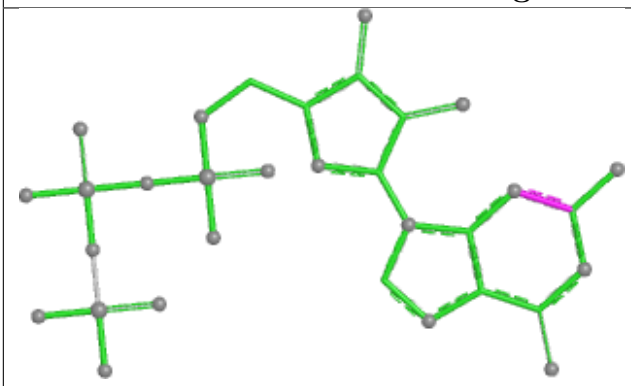


Rings

Ligand GTP RJ 501



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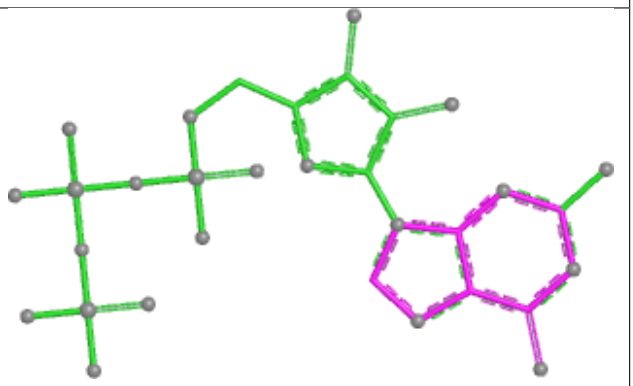

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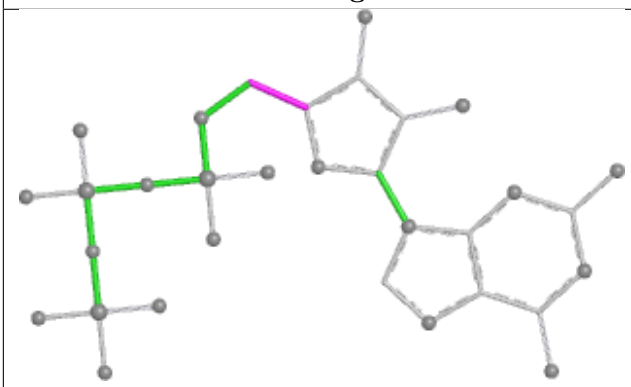

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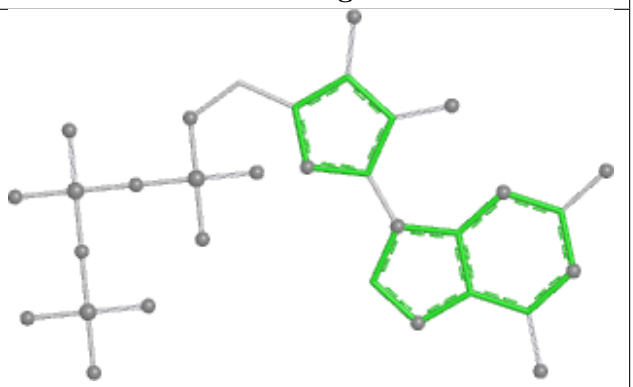
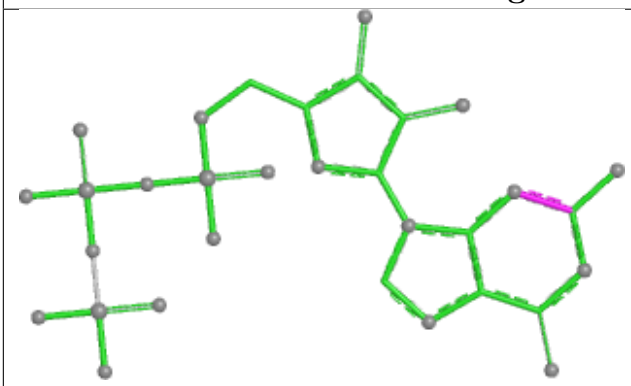


Rings

Ligand GTP OK 501



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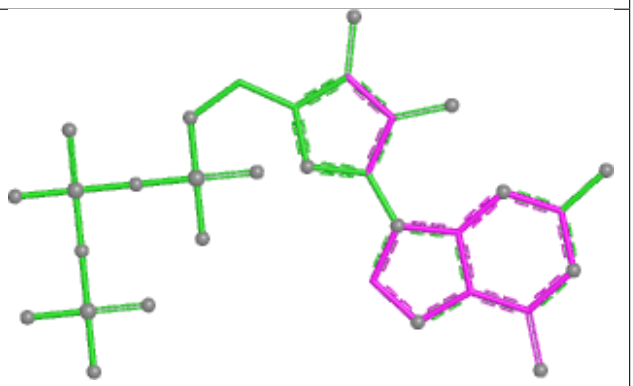

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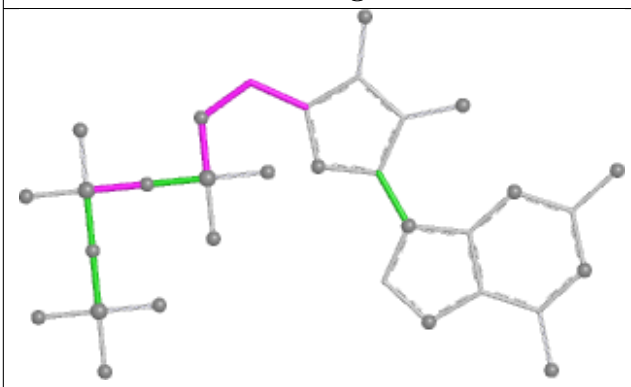

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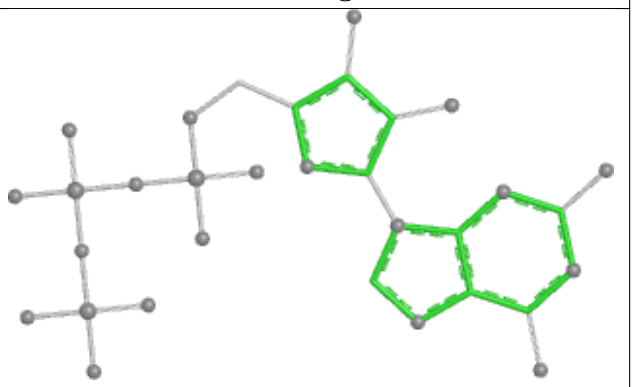
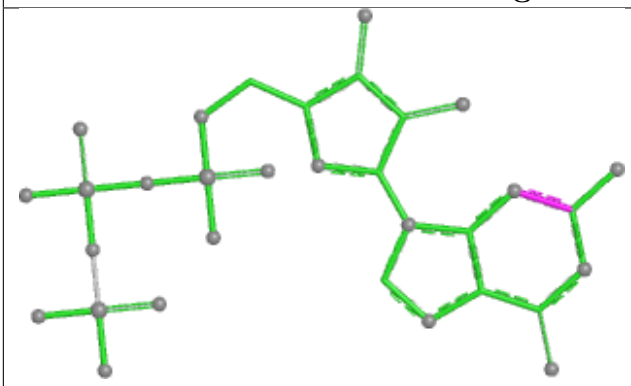


Rings

Ligand GTP LF 501



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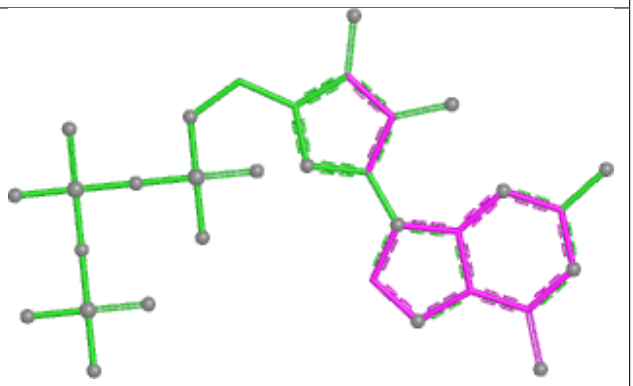
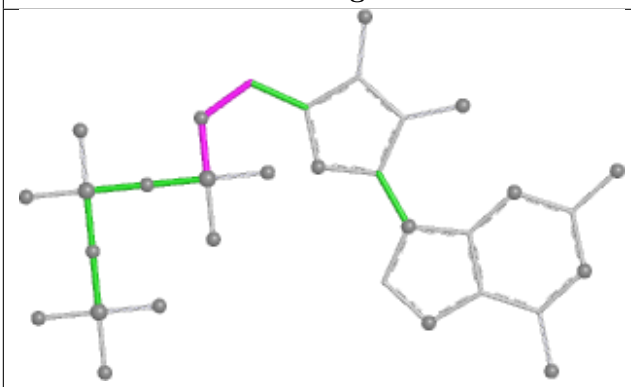


Bond angles



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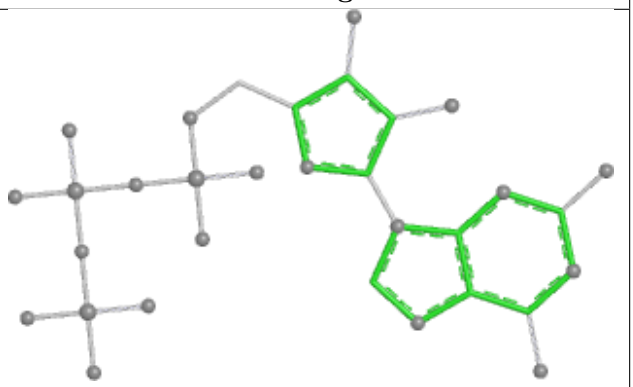
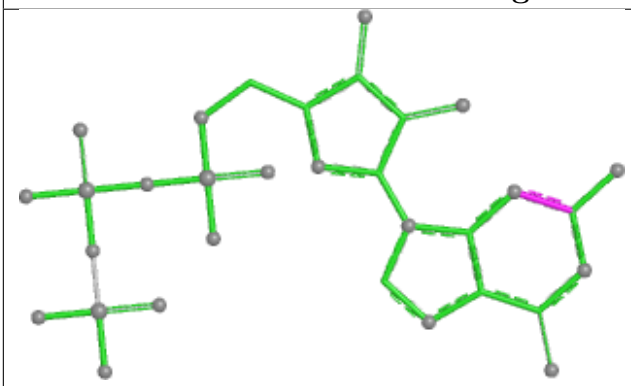


Rings

Ligand GTP FC 501



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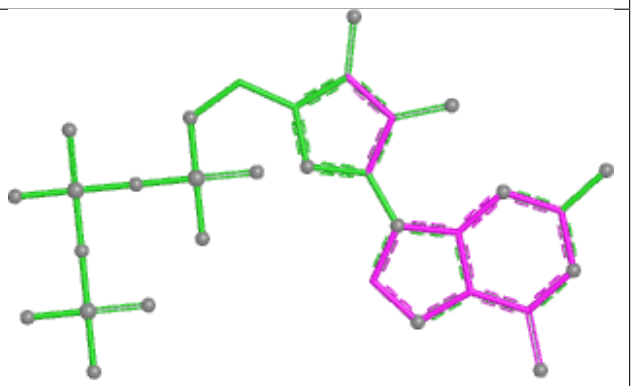
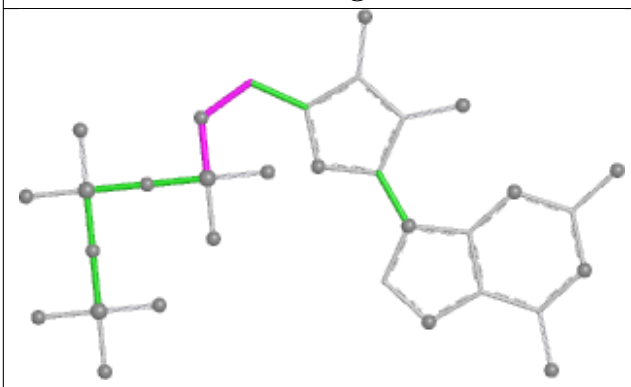


Bond angles



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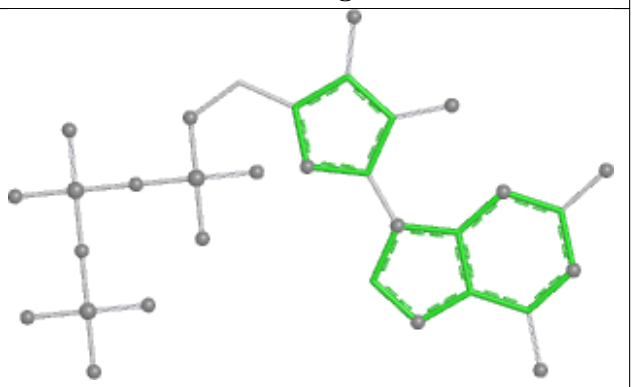
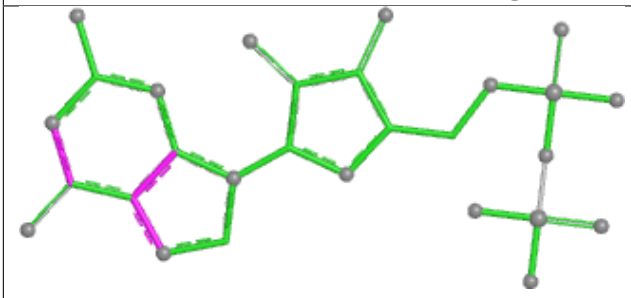


Rings

Ligand GDP MF 500



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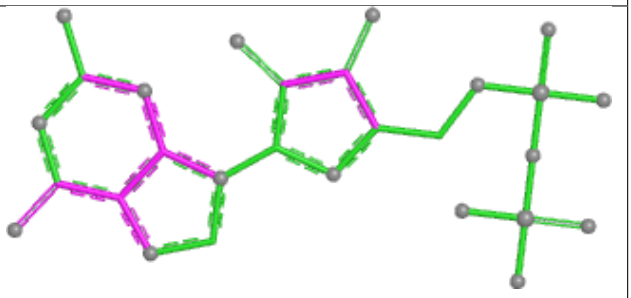
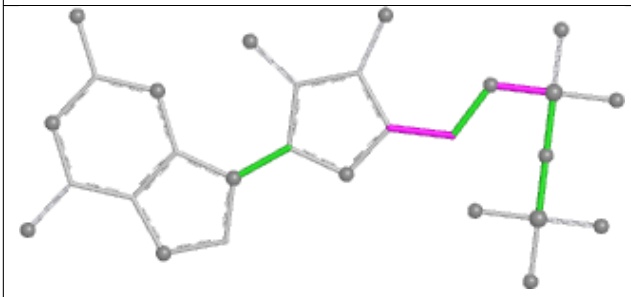


Bond angles



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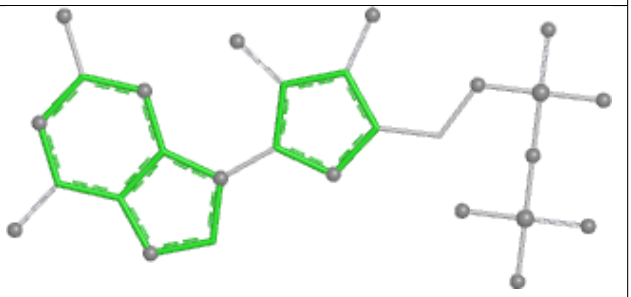
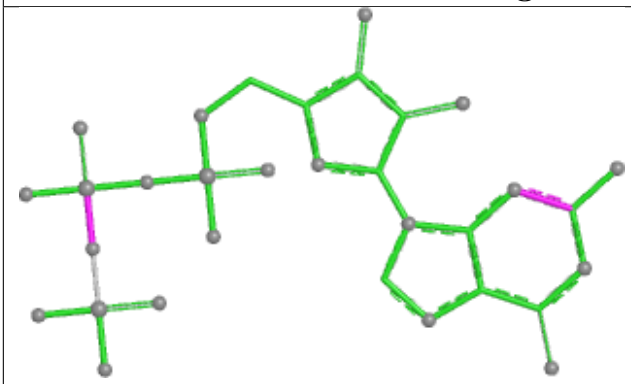


Rings

Ligand GTP IC 501



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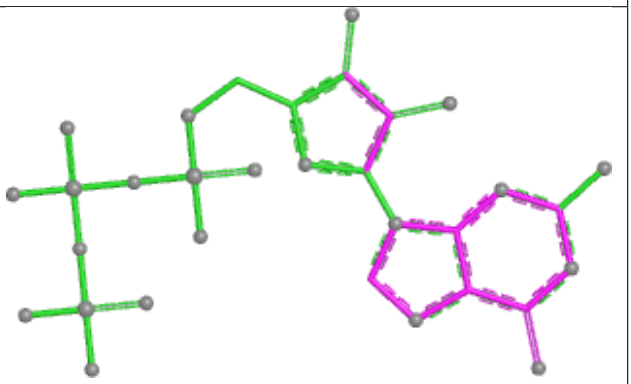

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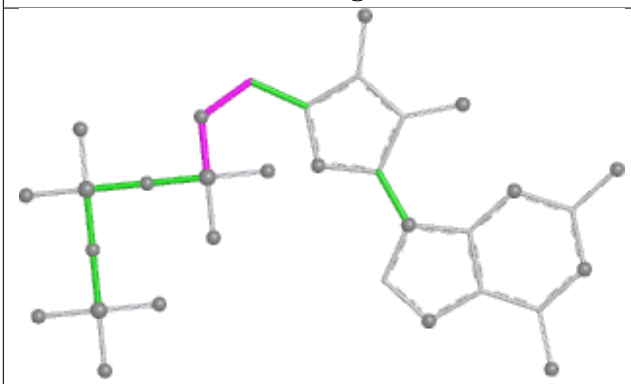
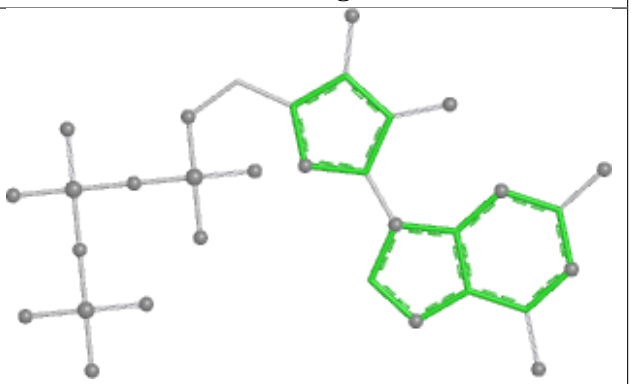
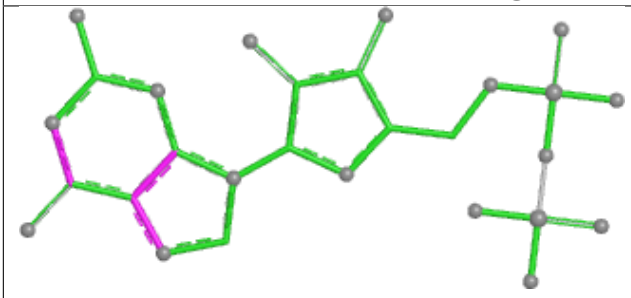


Torsions



Rings

Ligand GDP VB 500



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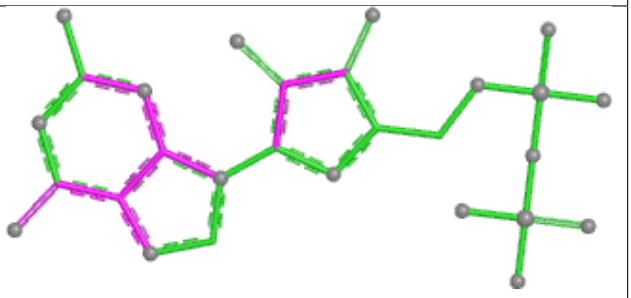

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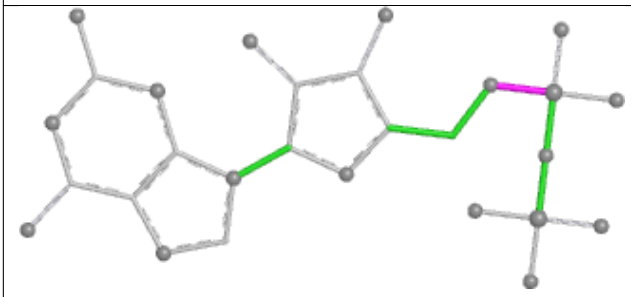

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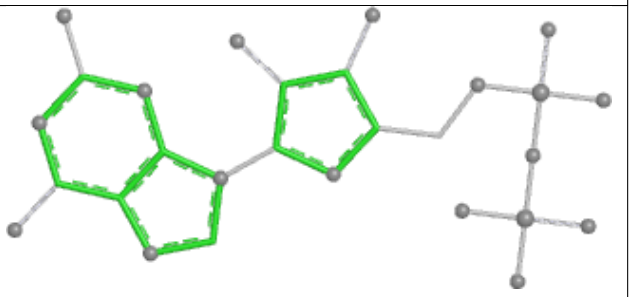
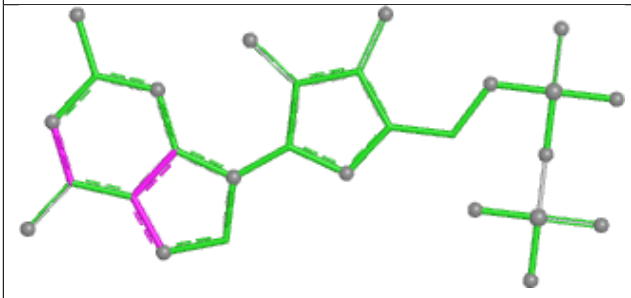


Rings

Ligand GDP LK 500



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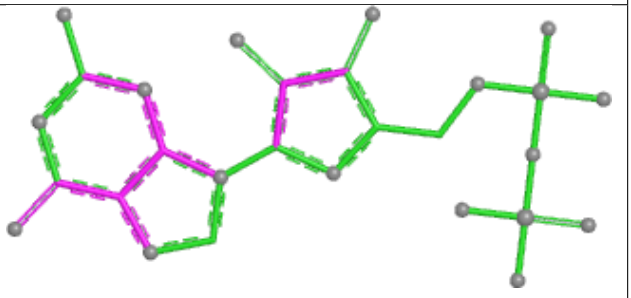

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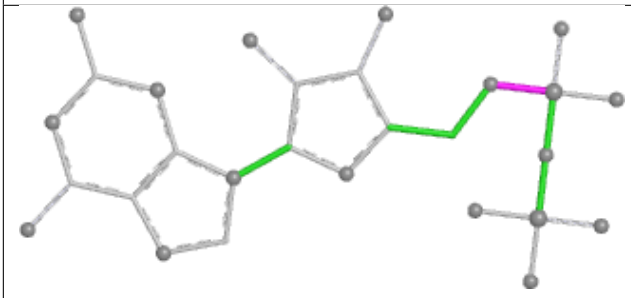

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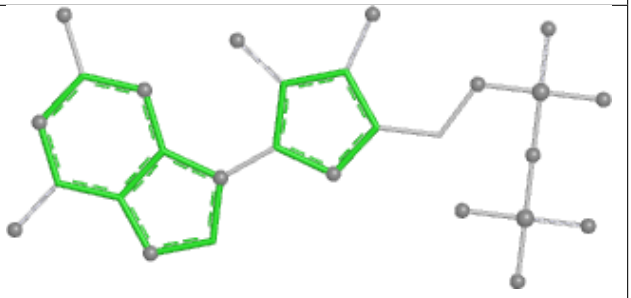
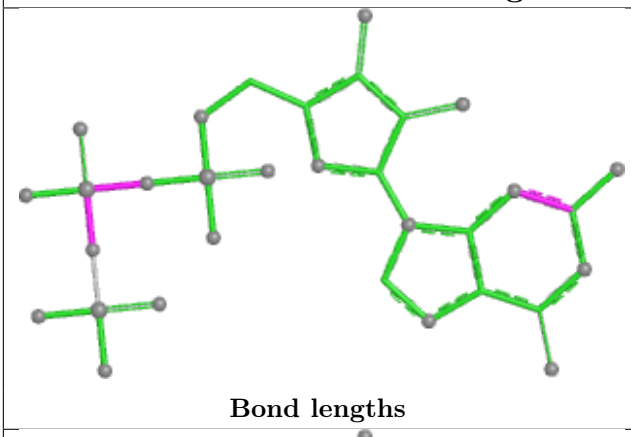


Rings

Ligand GTP BM 501



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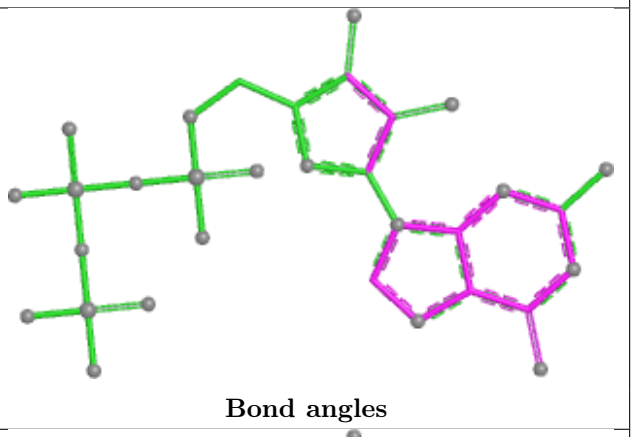

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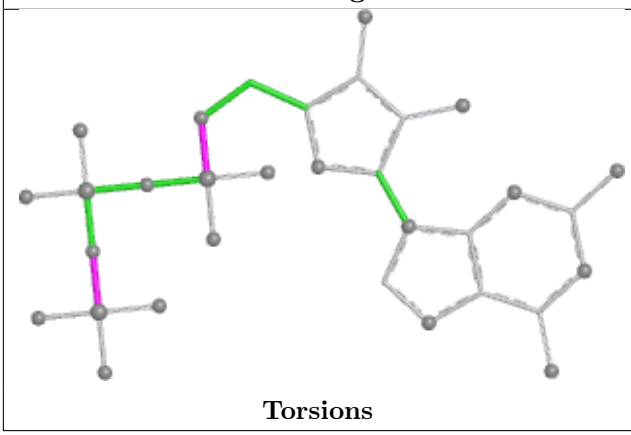

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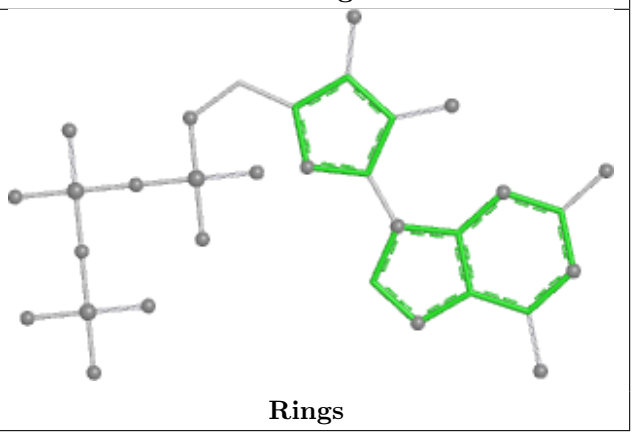
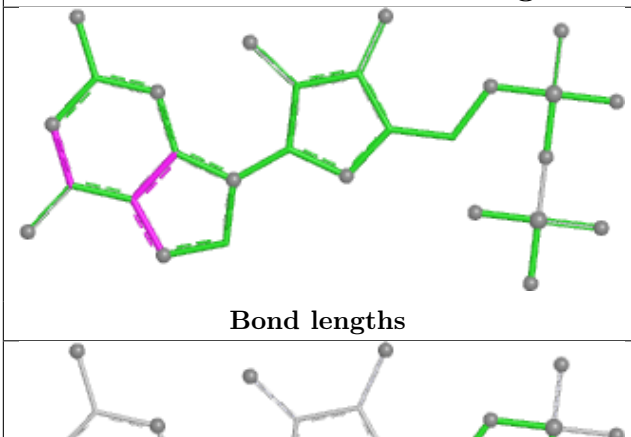


Rings

Ligand GDP IL 500



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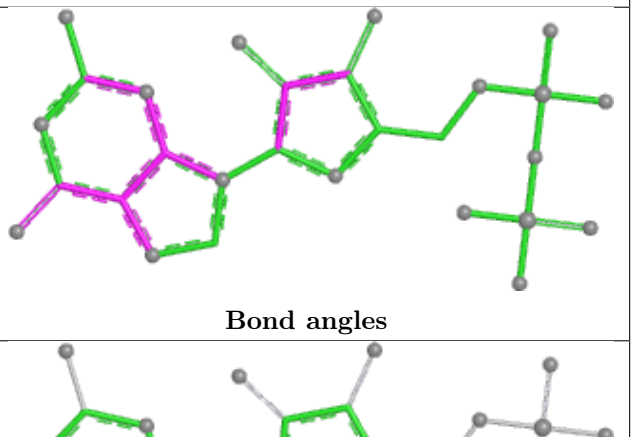

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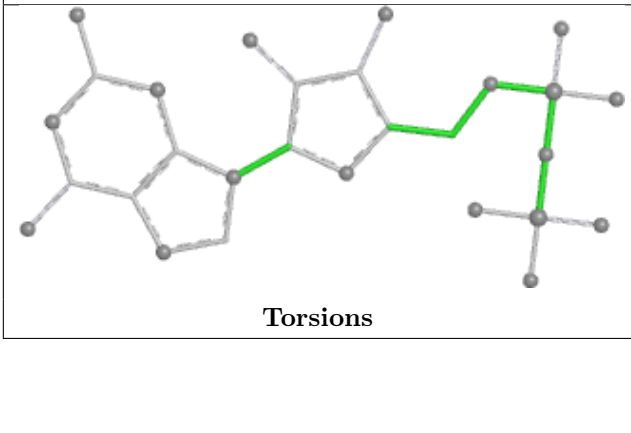

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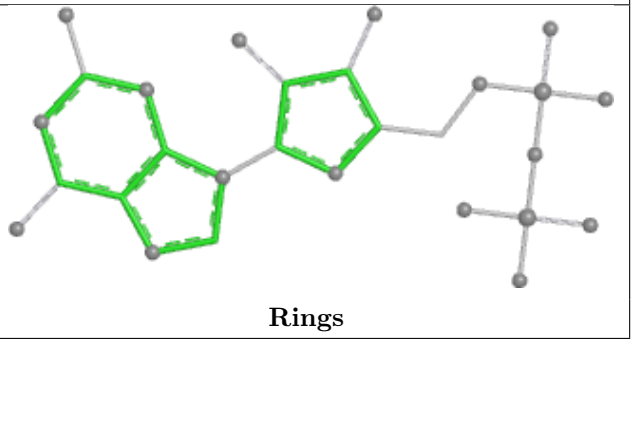
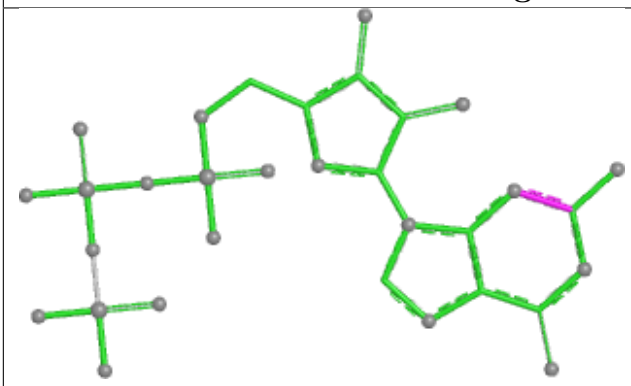


Rings

Ligand GTP LL 501



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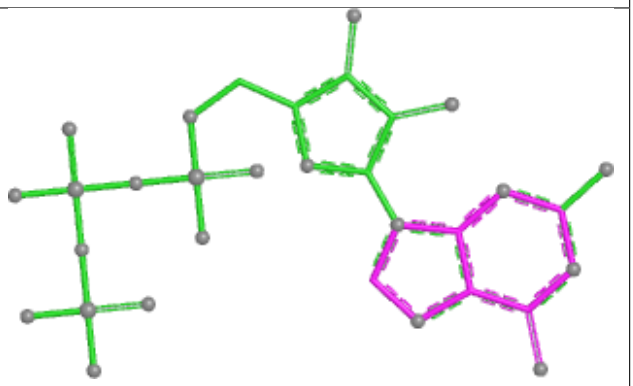

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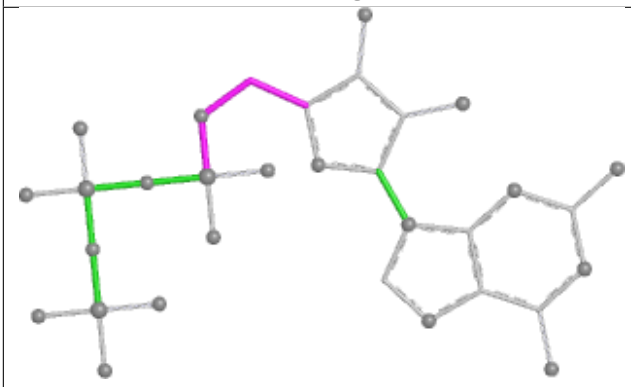

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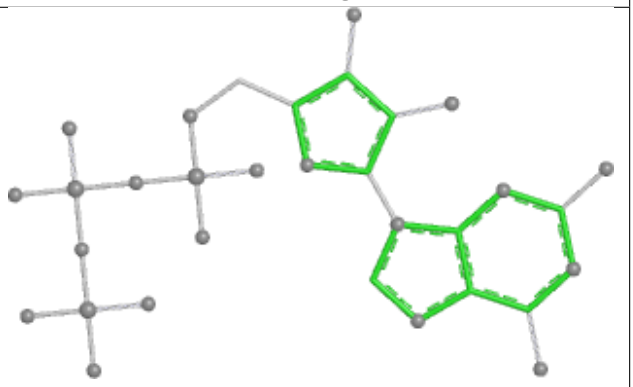
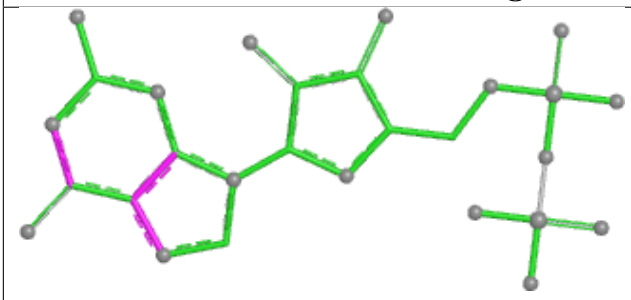


Rings

Ligand GDP LM 500



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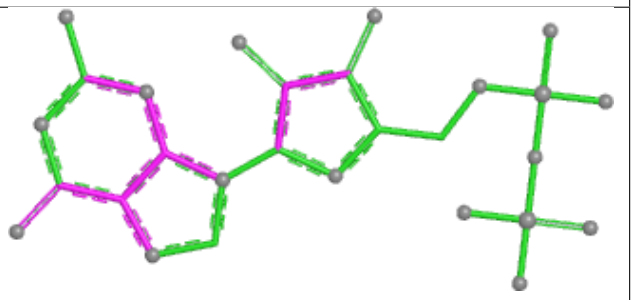

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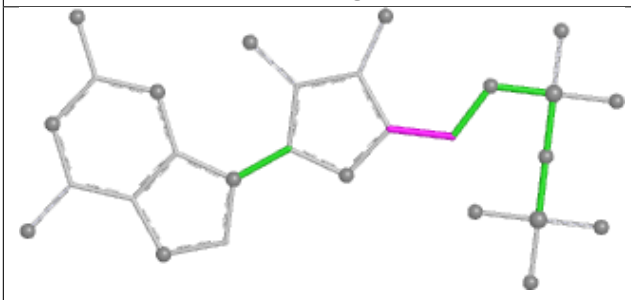

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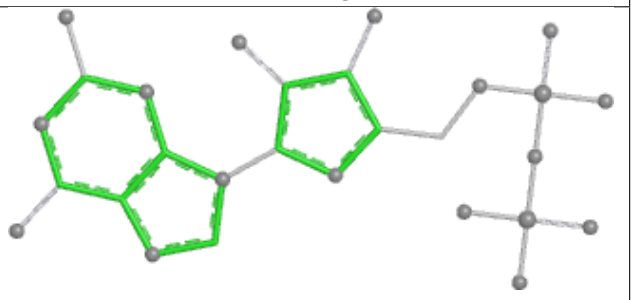
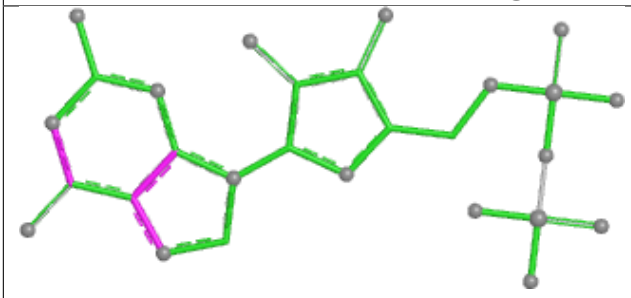


Rings

Ligand GDP BH 500



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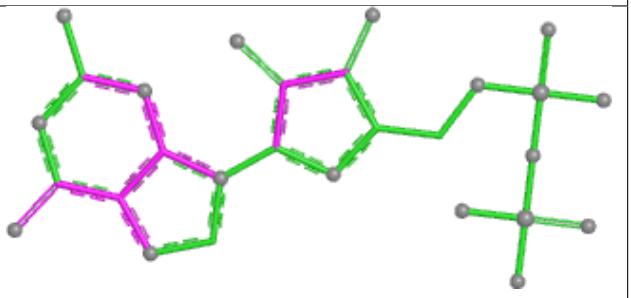

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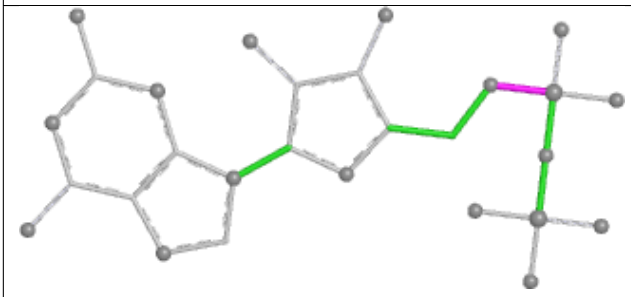

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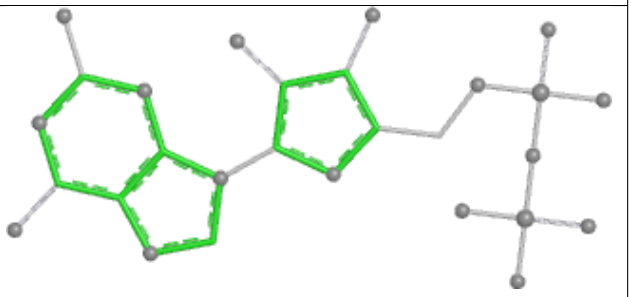
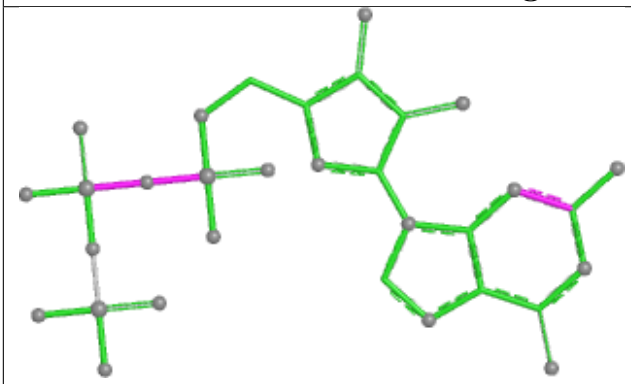


Rings

Ligand GTP D 501



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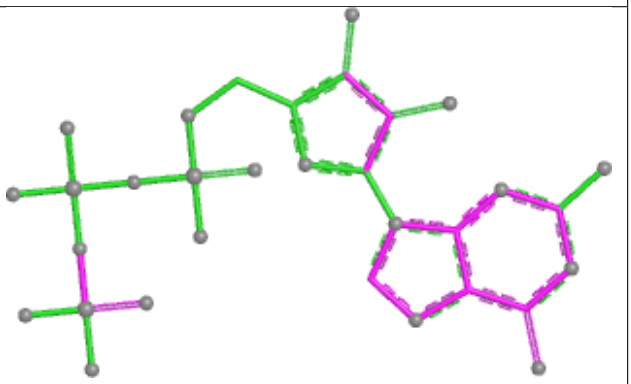

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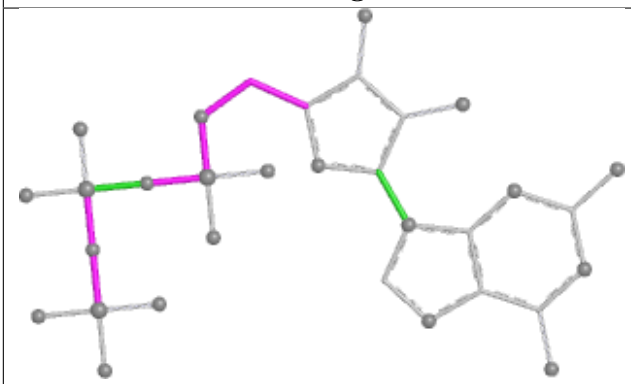

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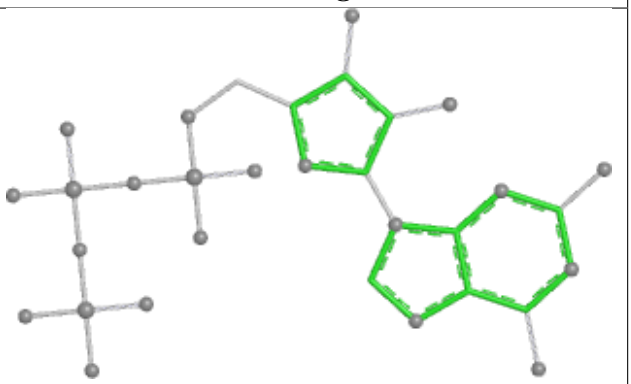
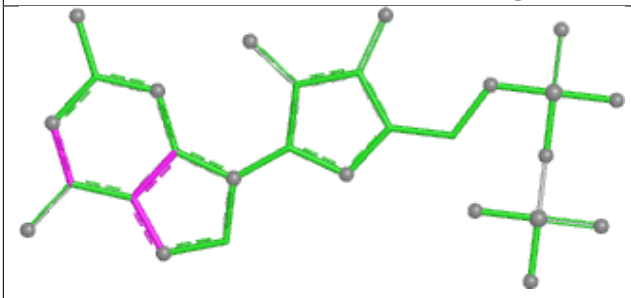


Rings

Ligand GDP RE 500



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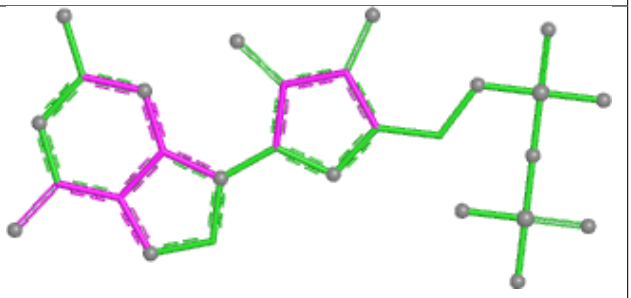

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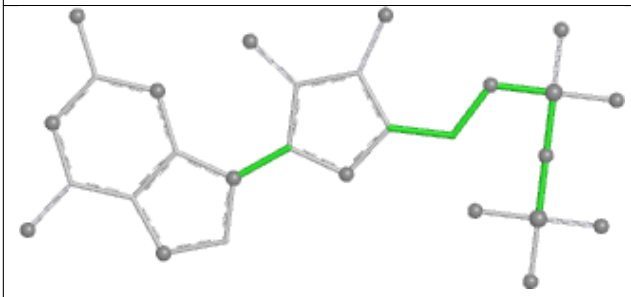

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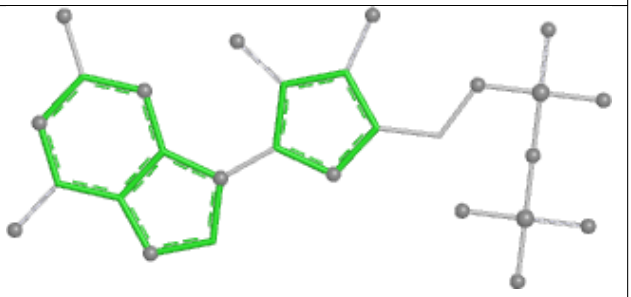
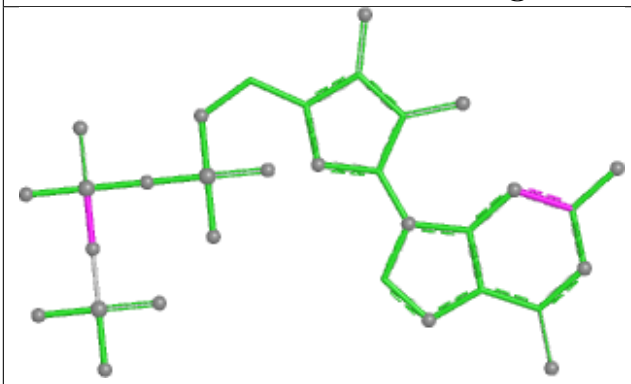


Rings

Ligand GTP RD 501



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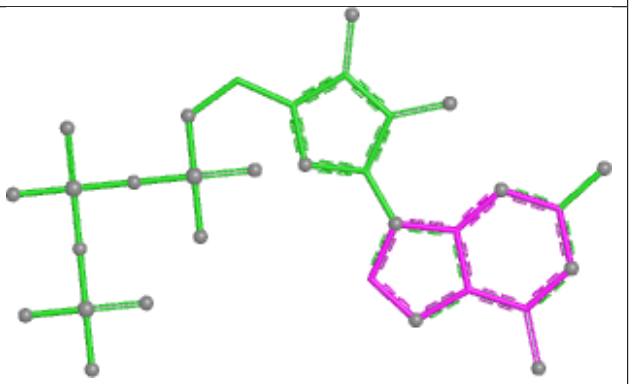

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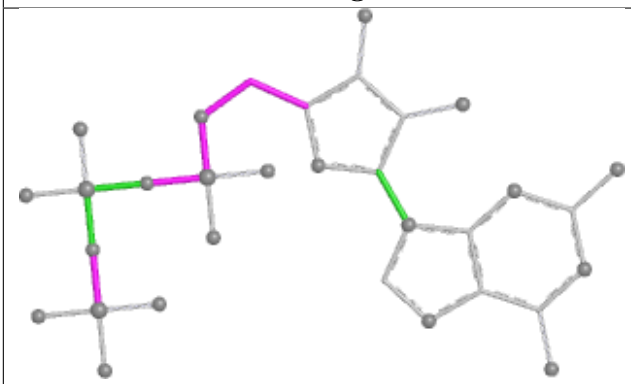

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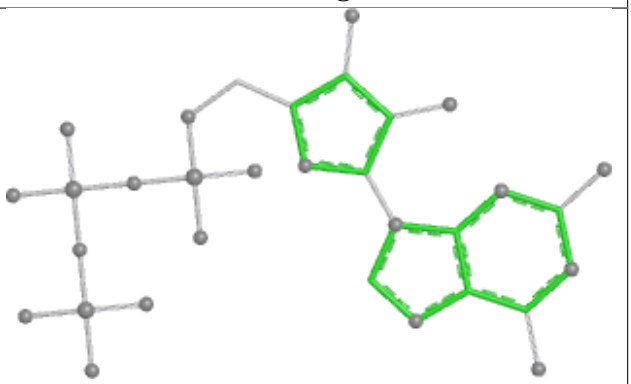
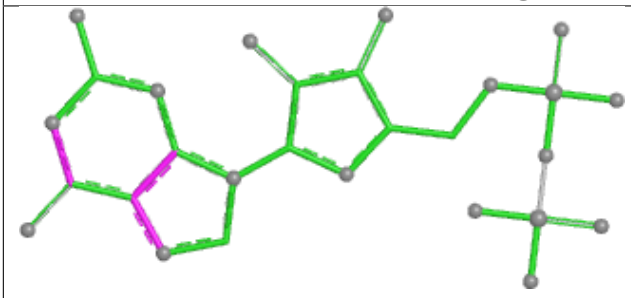


Rings

Ligand GDP CI 500



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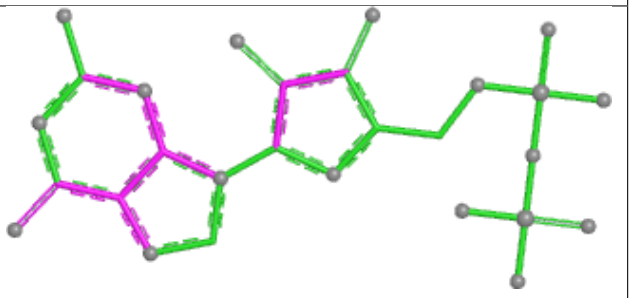
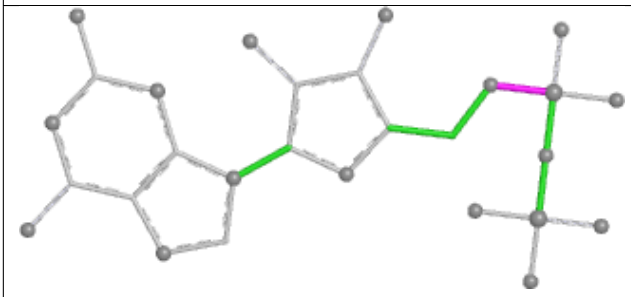


Bond angles



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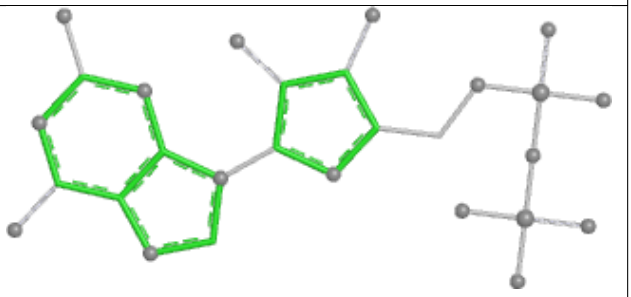
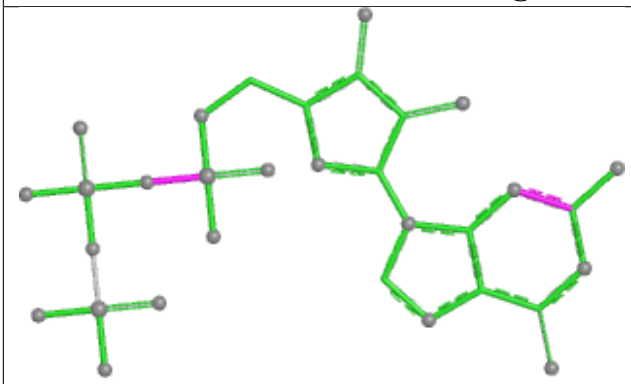


Rings

Ligand GTP LB 501



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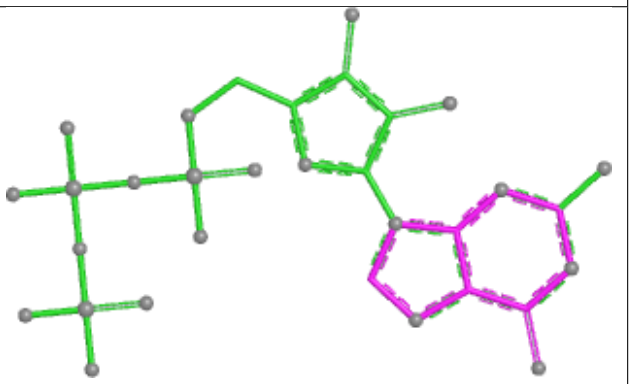
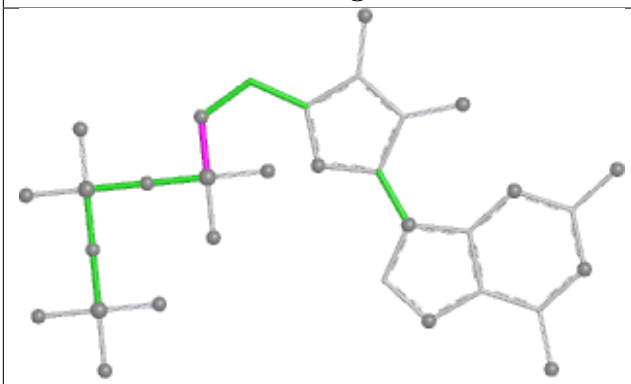


Bond angles



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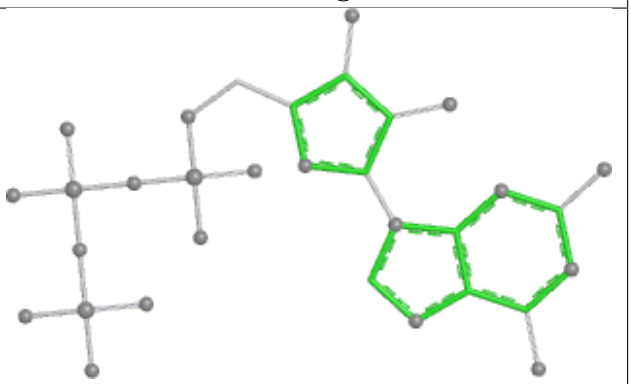
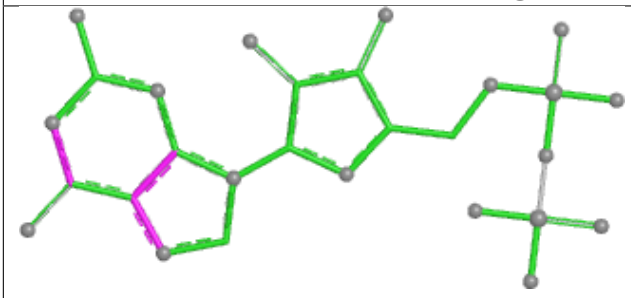


Rings

Ligand GDP UJ 500



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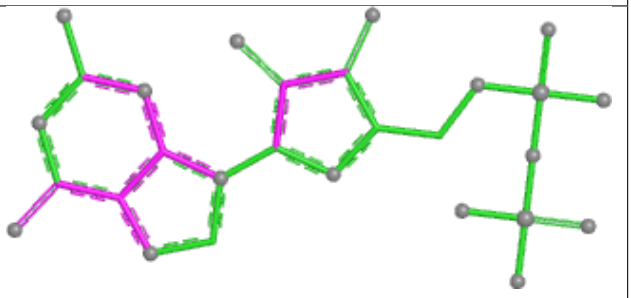
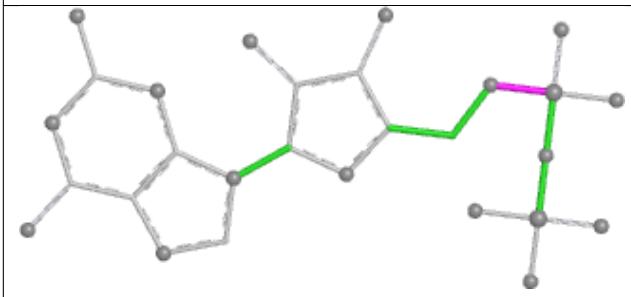


Bond angles



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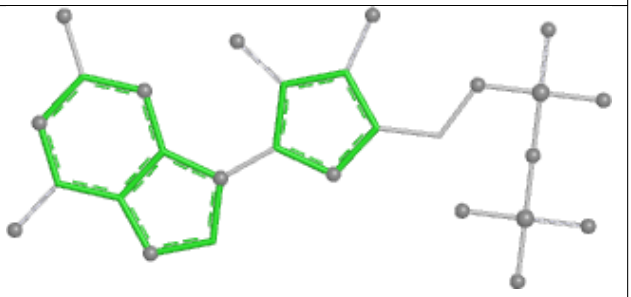
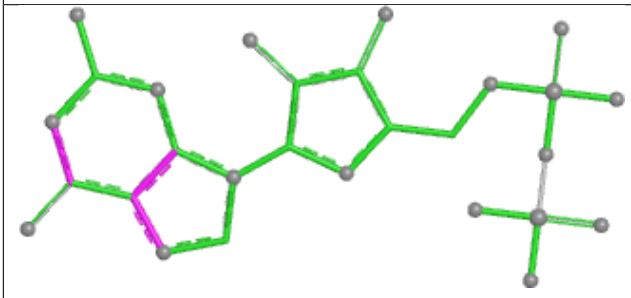


Rings

Ligand GDP GJ 500



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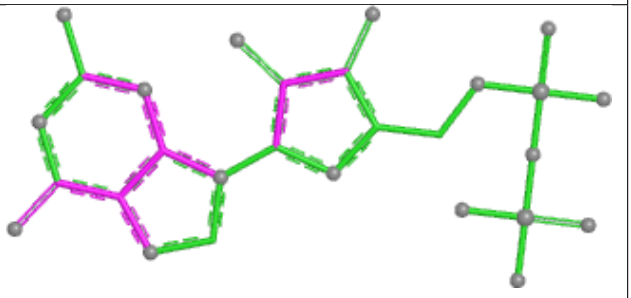

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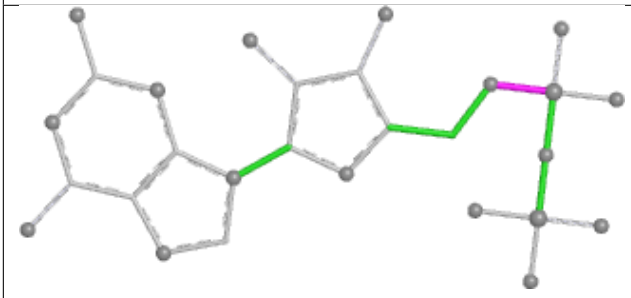
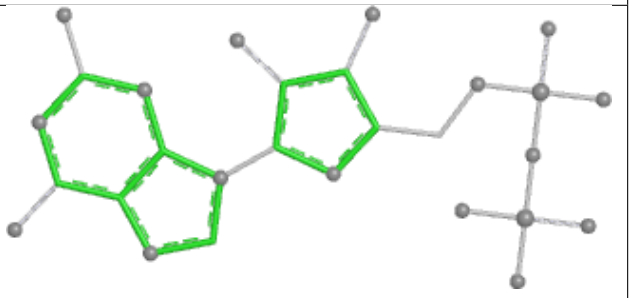
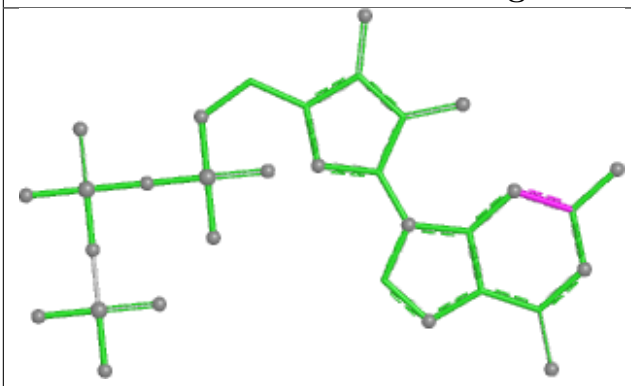


Torsions



Rings

Ligand GTP DH 501



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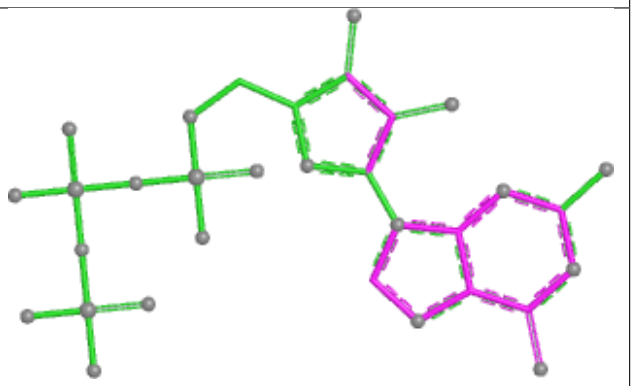

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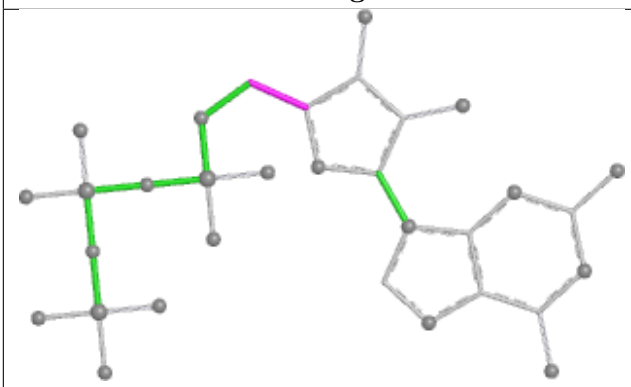

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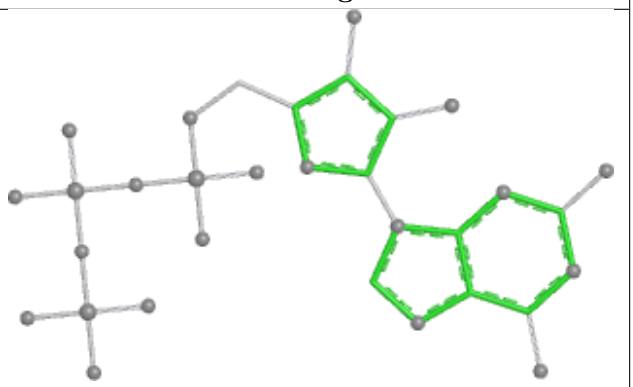
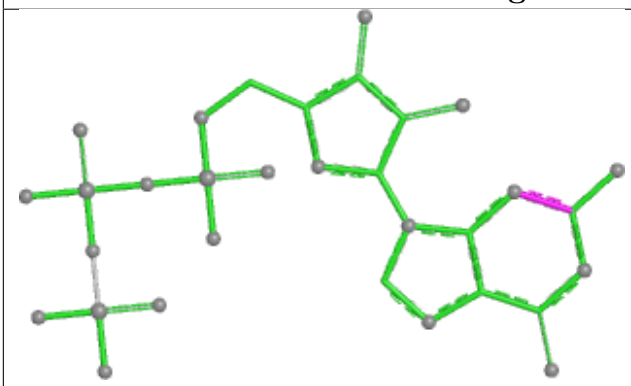


Rings

Ligand GTP UA 501



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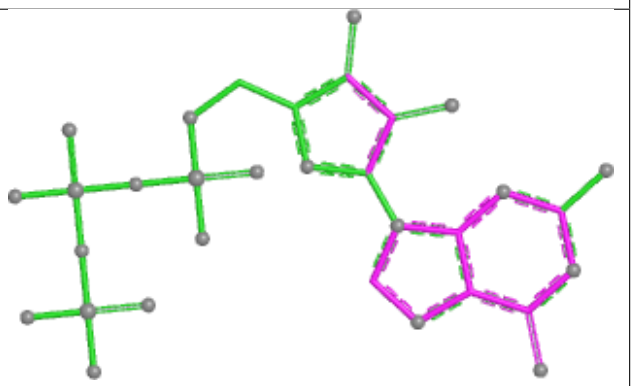

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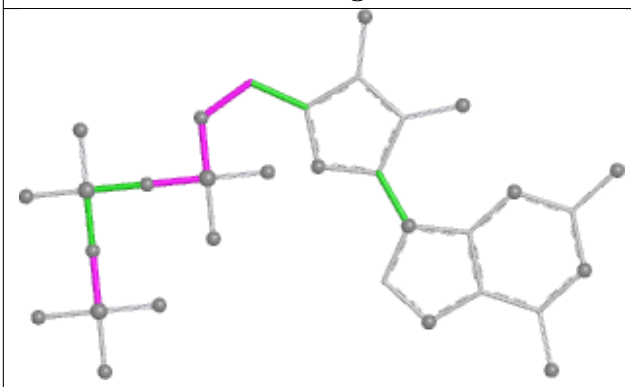

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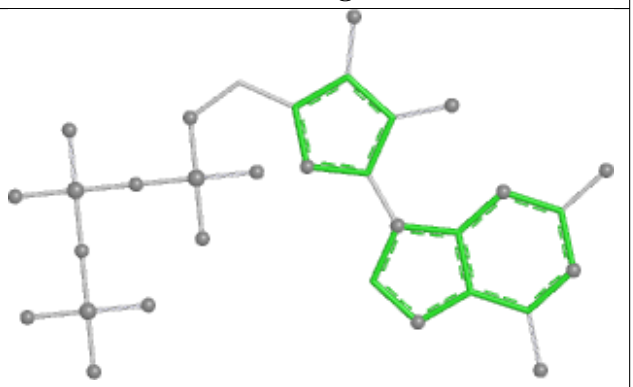
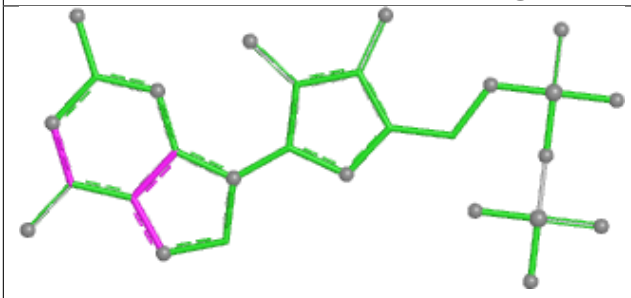


Rings

Ligand GDP JA 500



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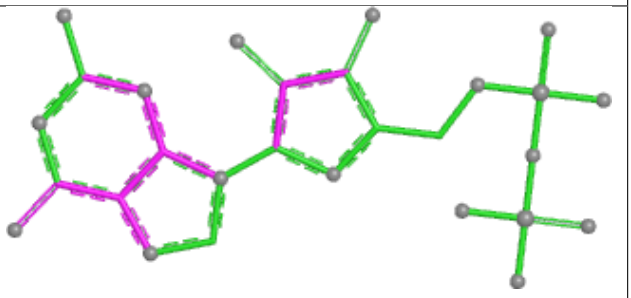

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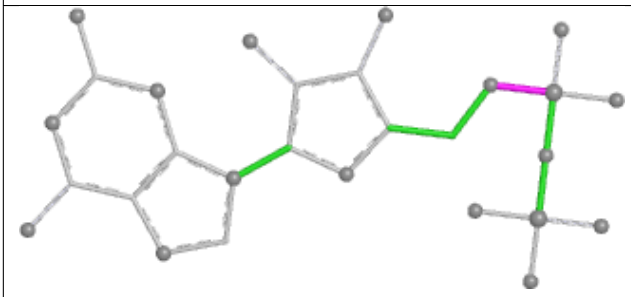

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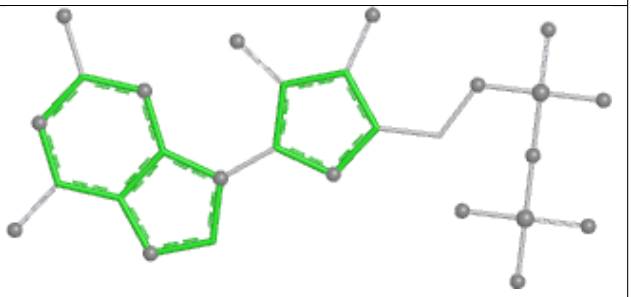
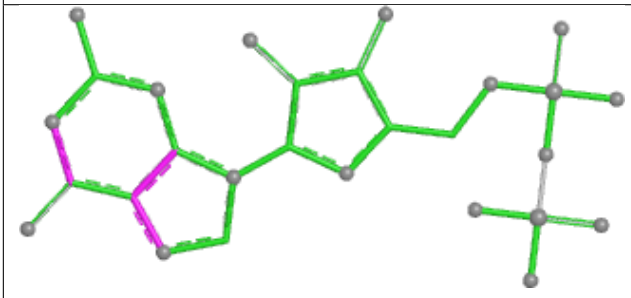


Rings

Ligand GDP FJ 500



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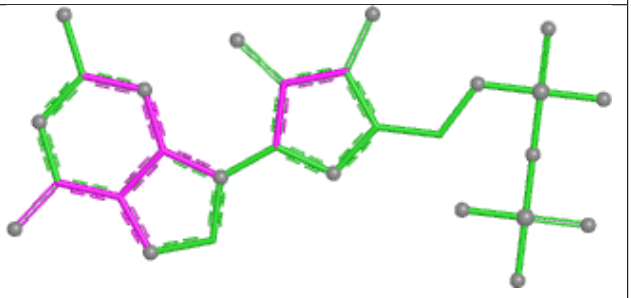

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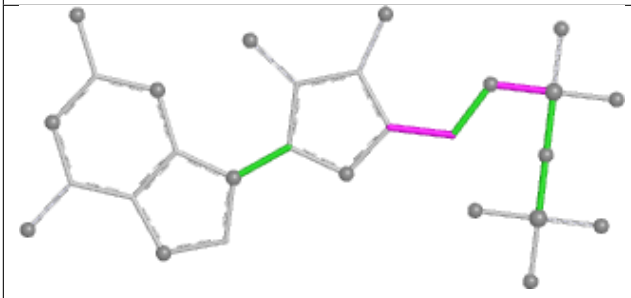

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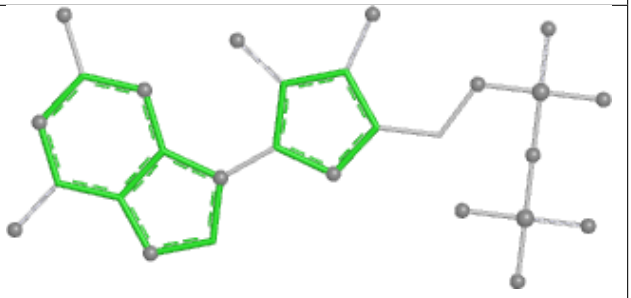
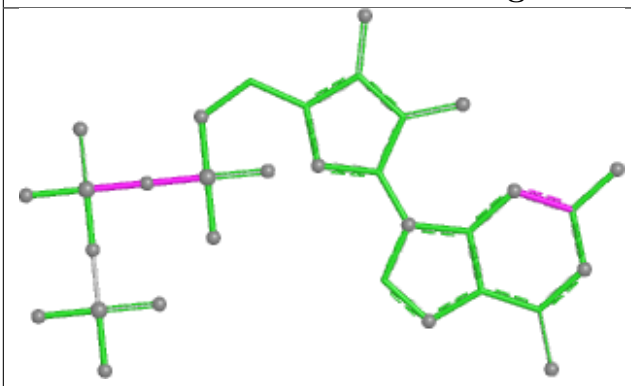


Rings

Ligand GTP NG 501



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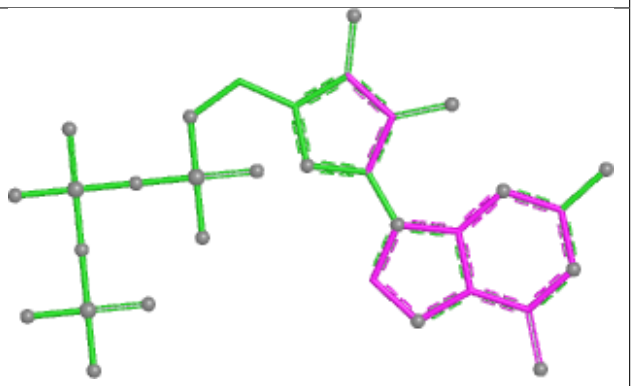

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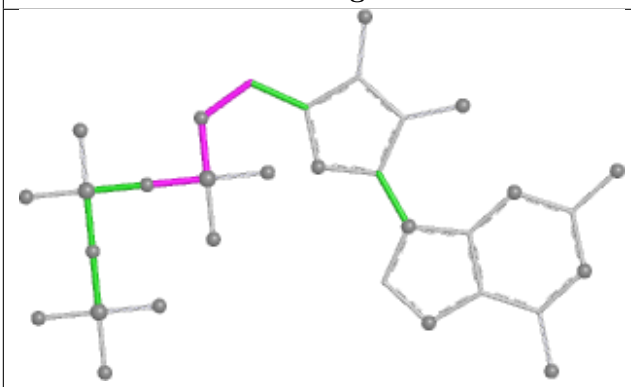

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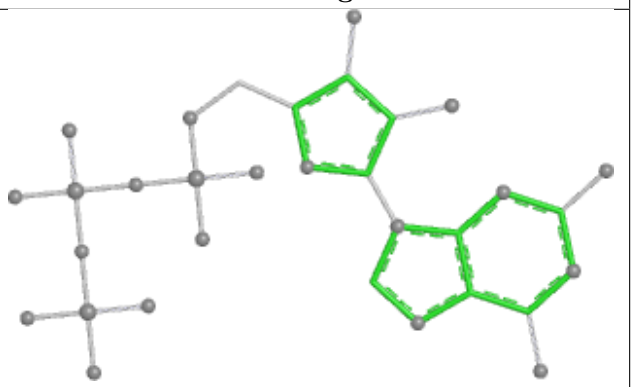
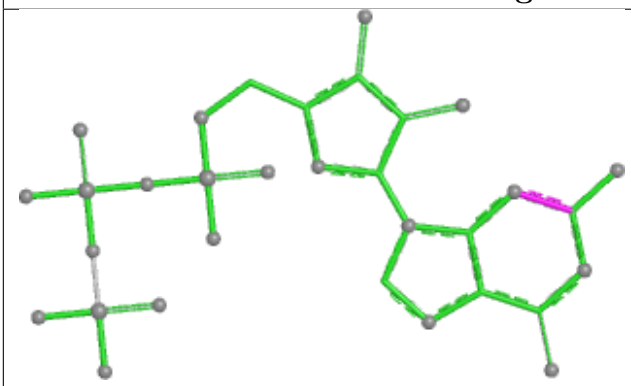


Rings

Ligand GTP UI 501



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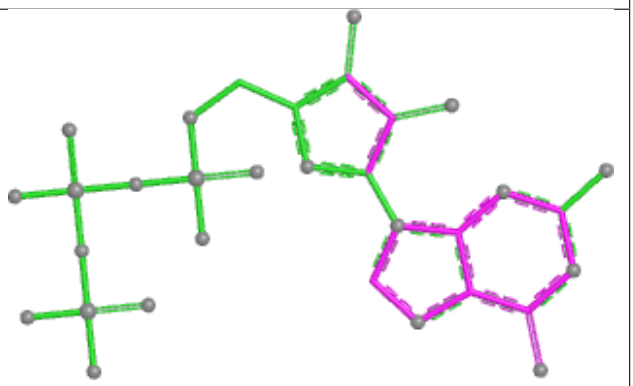

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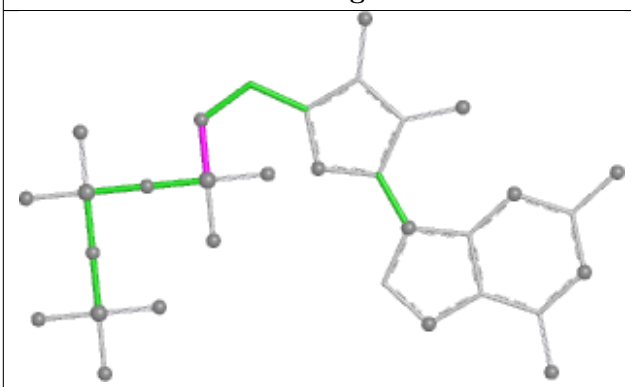

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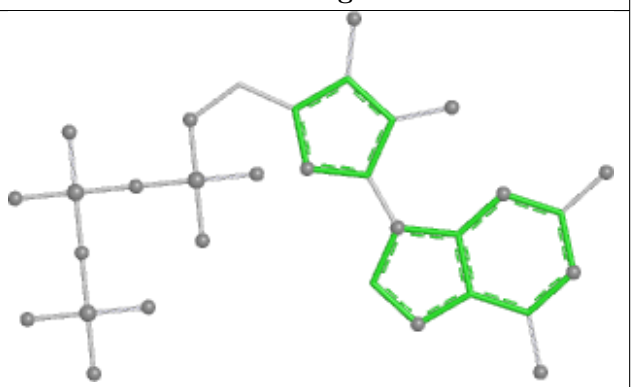
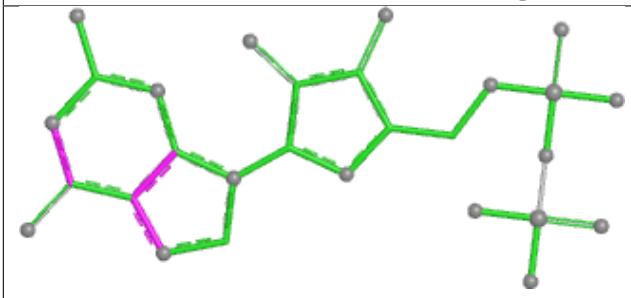


Rings

Ligand GDP DI 500



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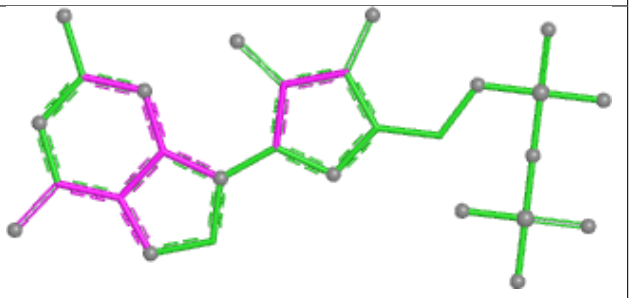

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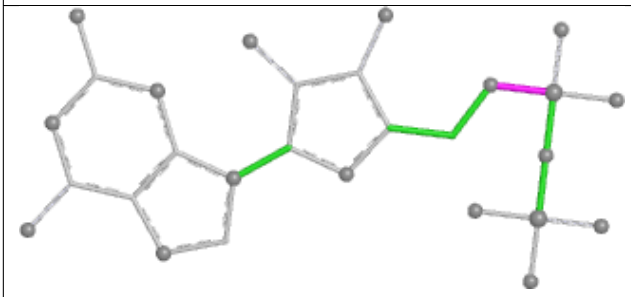

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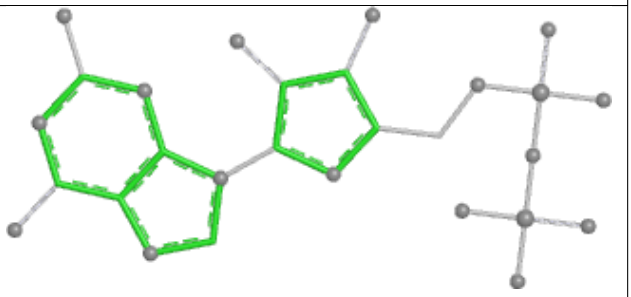
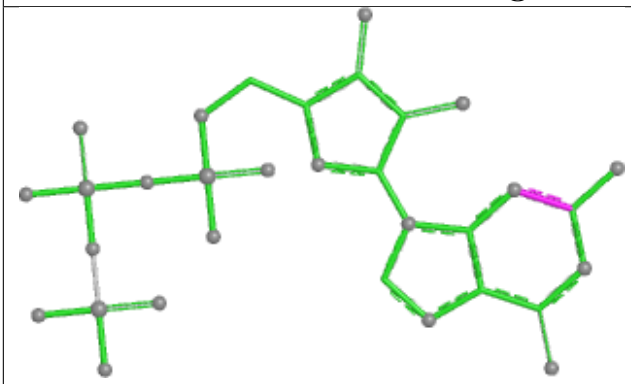


Rings

Ligand GTP OA 501



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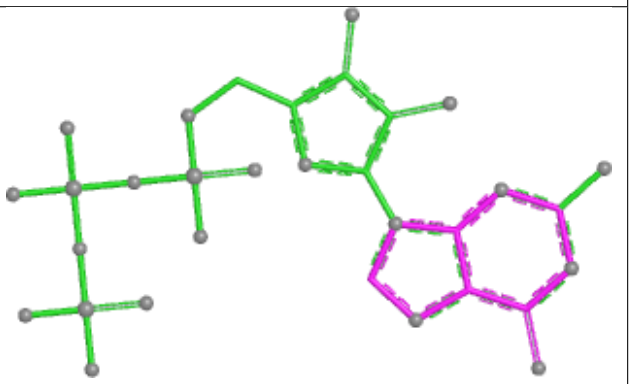

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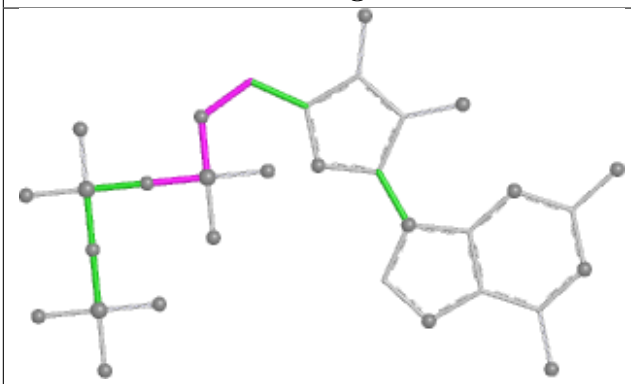

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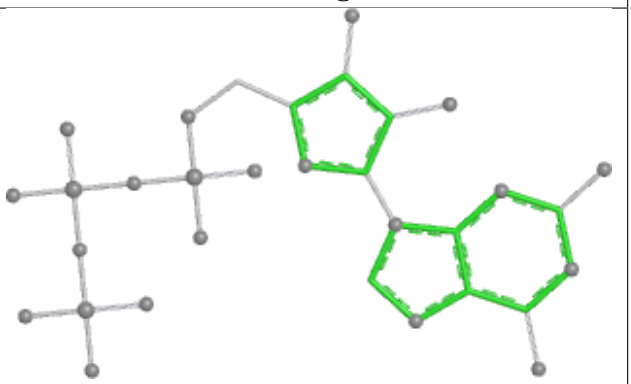

Rings

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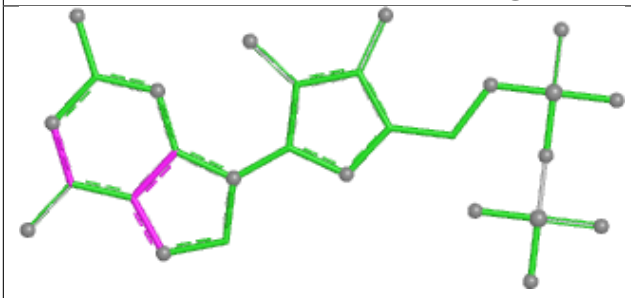

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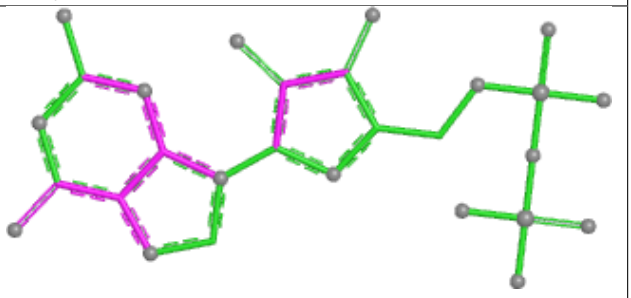

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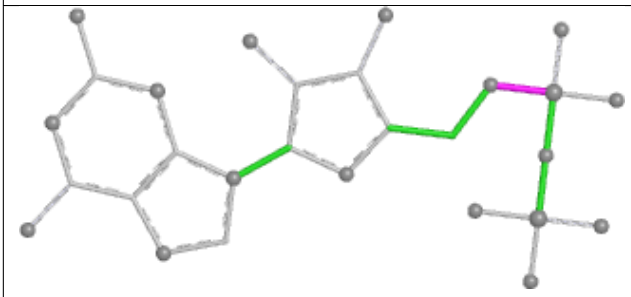

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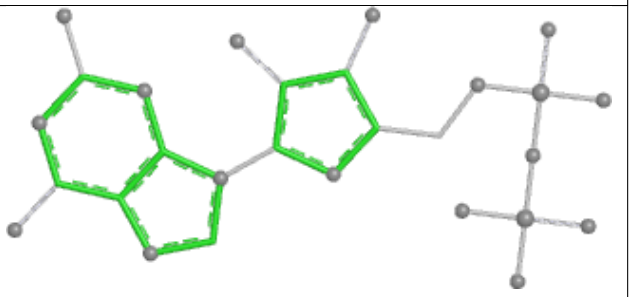
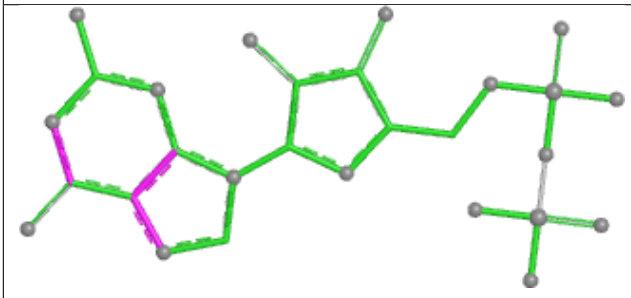


Rings

Ligand GDP CA 500



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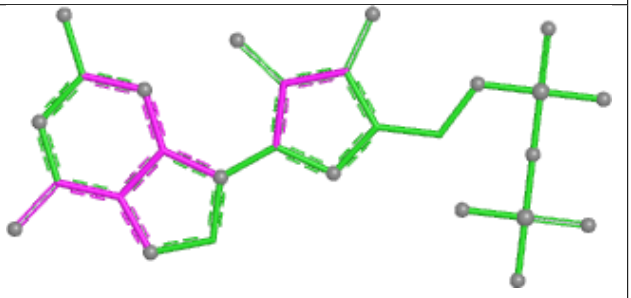

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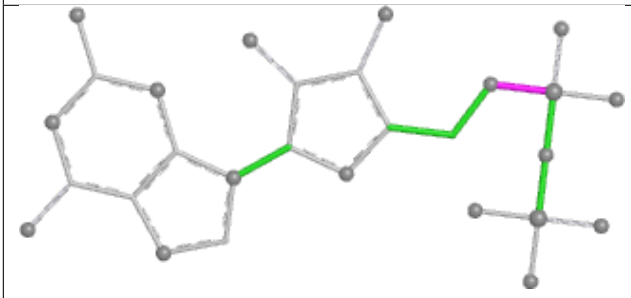

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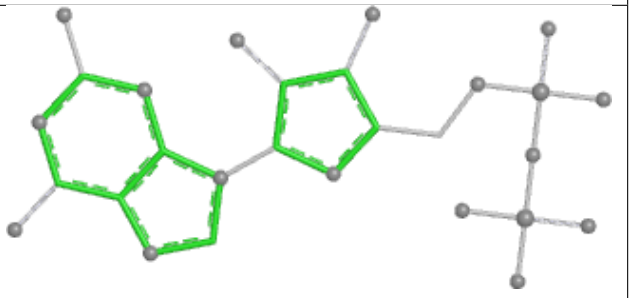
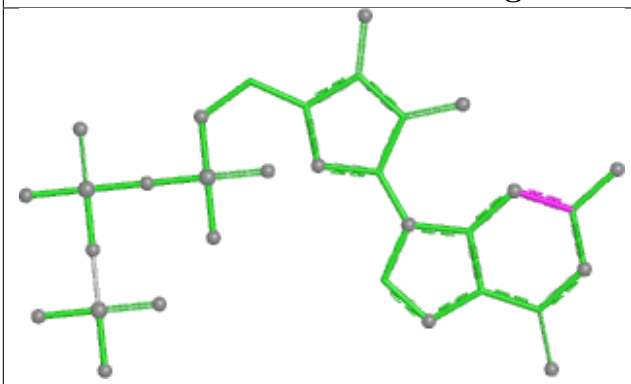


Rings

Ligand GTP HM 501



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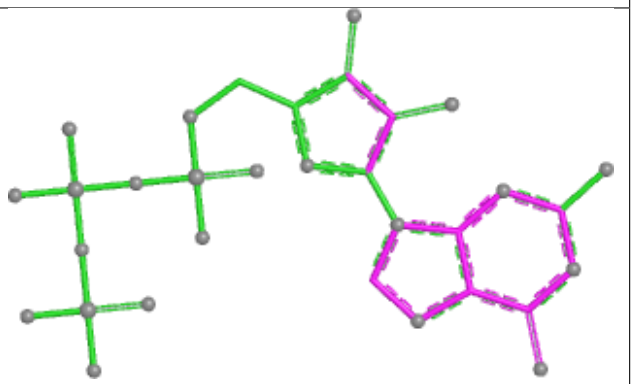
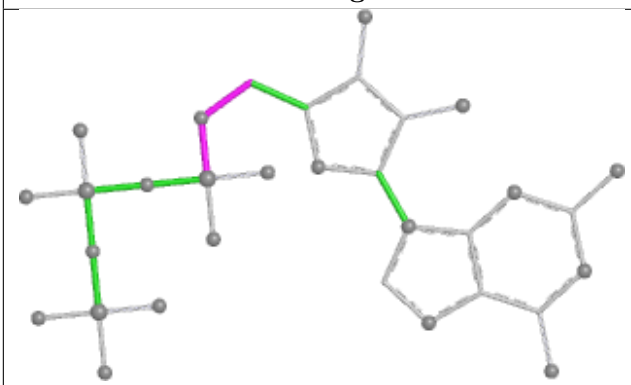


Bond angles



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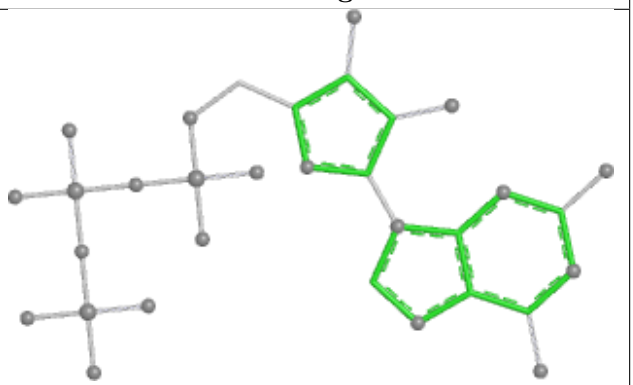
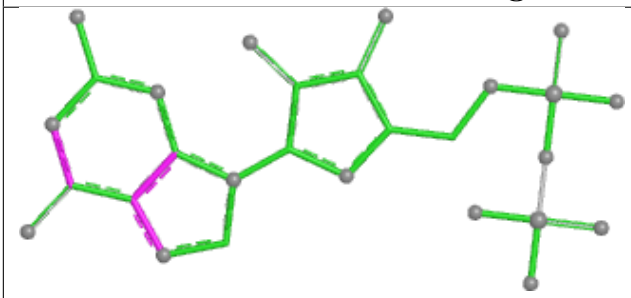


Rings

Ligand GDP BN 500



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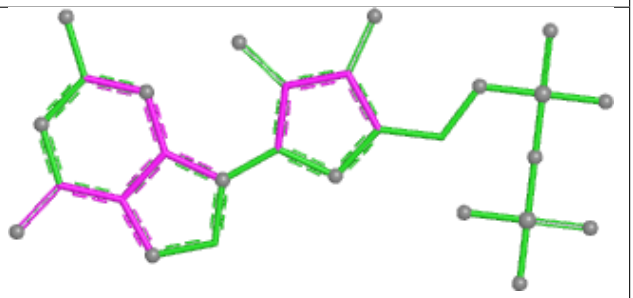

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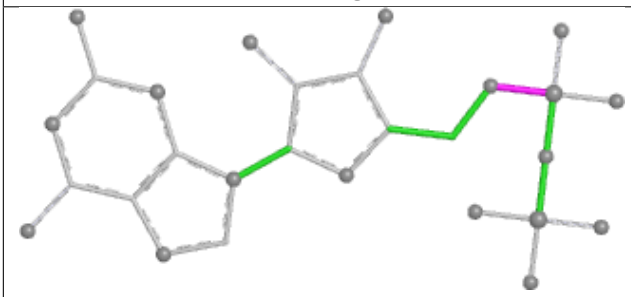

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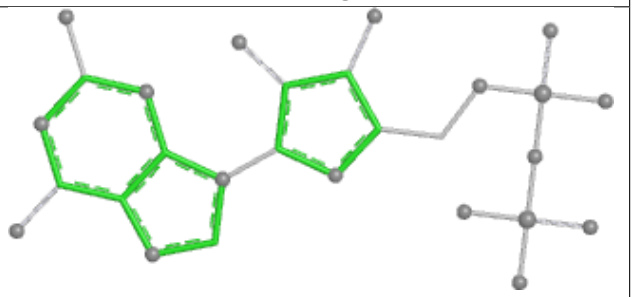
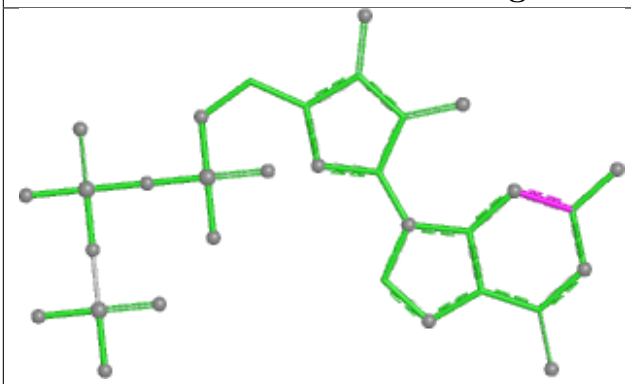


Rings

Ligand GTP AA 501



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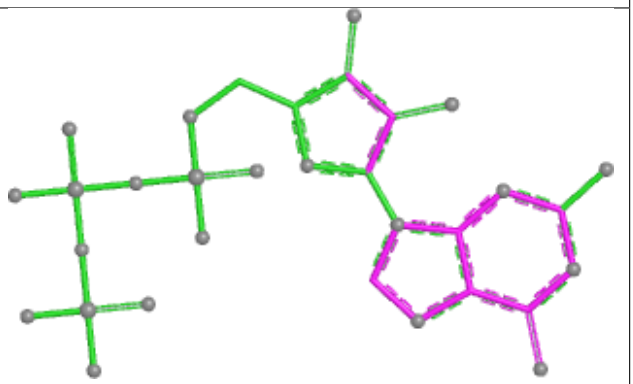
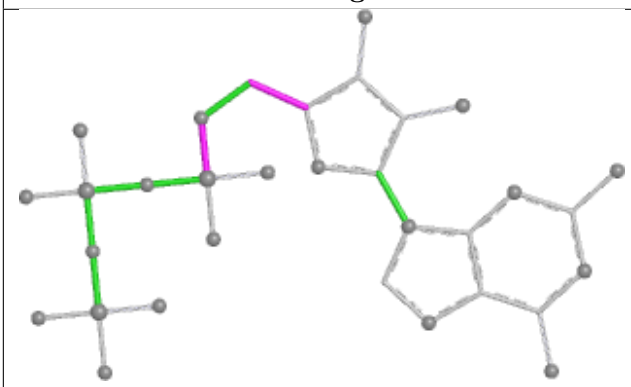


Bond angles



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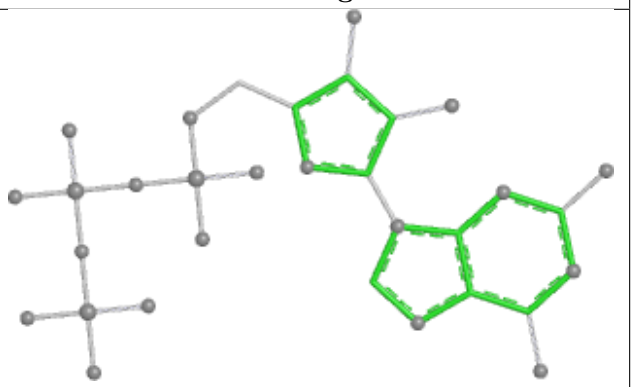
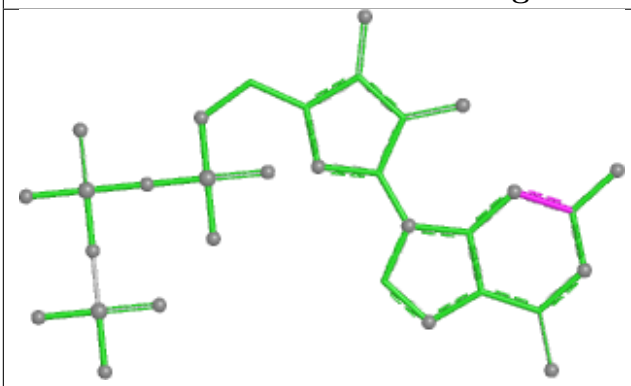


Rings

Ligand GTP MI 501



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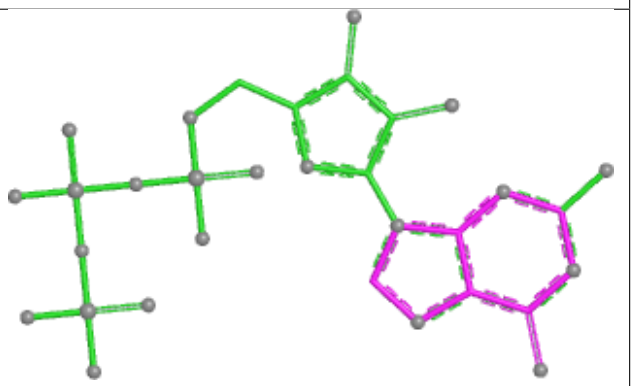

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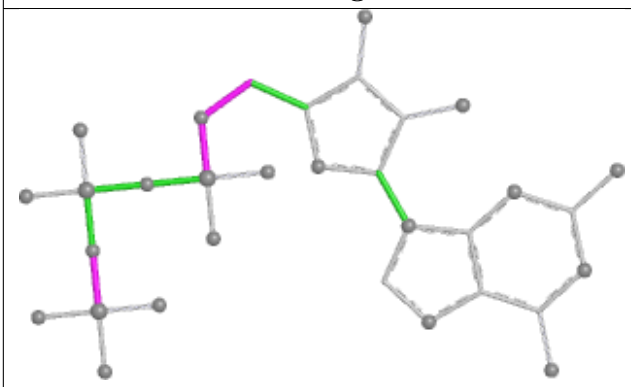
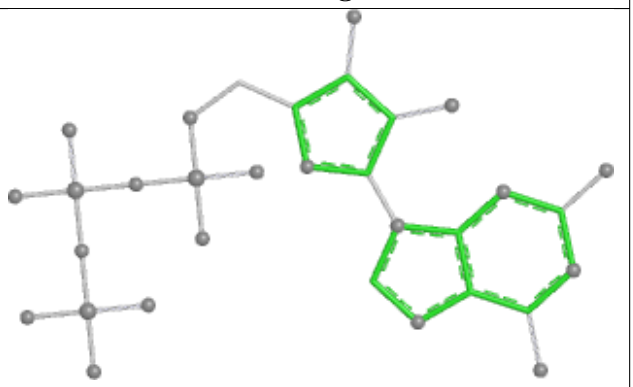
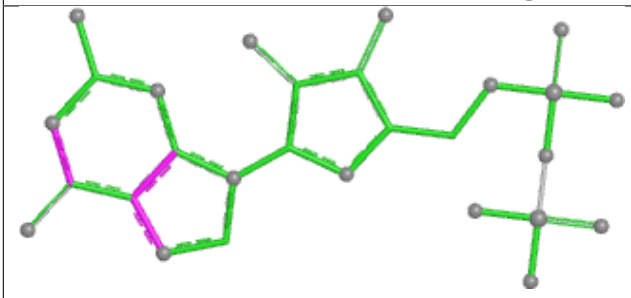


Torsions



Rings

Ligand GDP G 500



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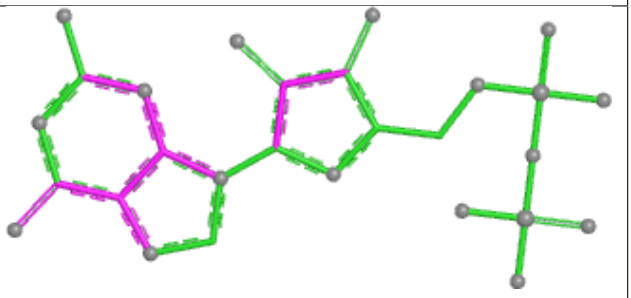

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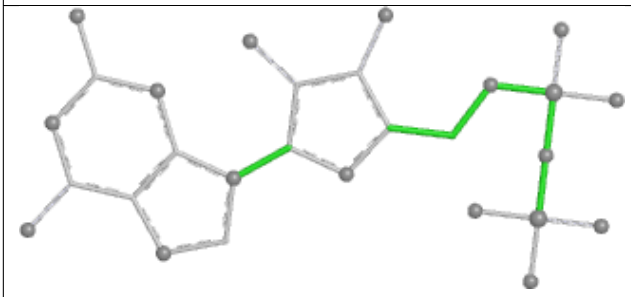

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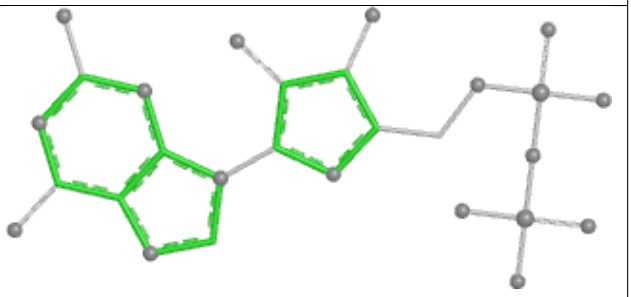
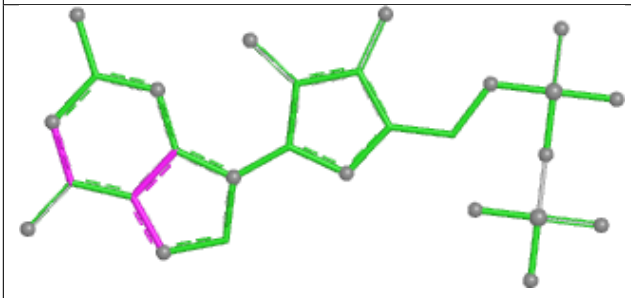


Rings

Ligand GDP JG 500



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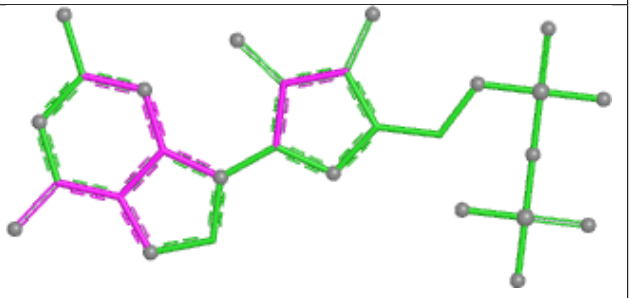

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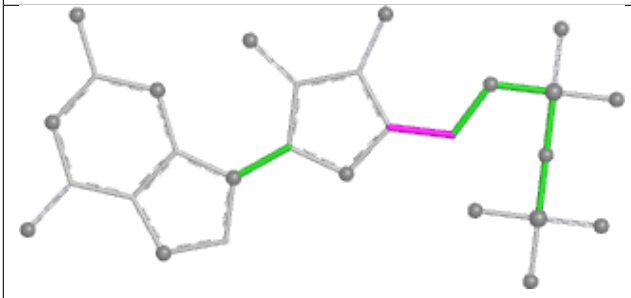

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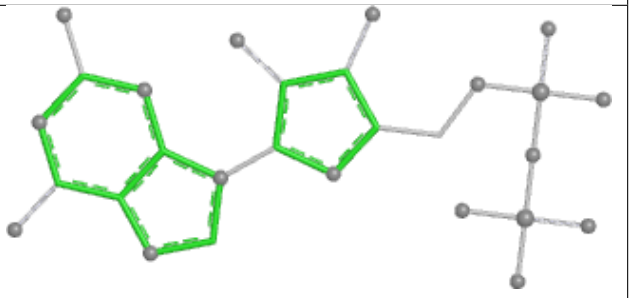
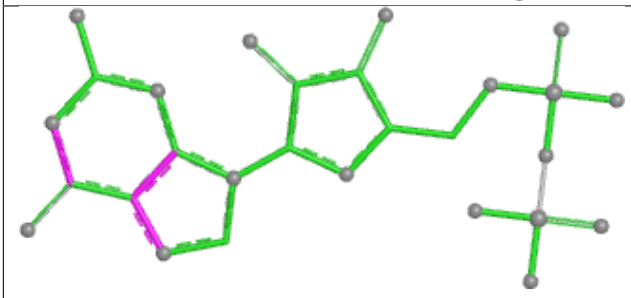
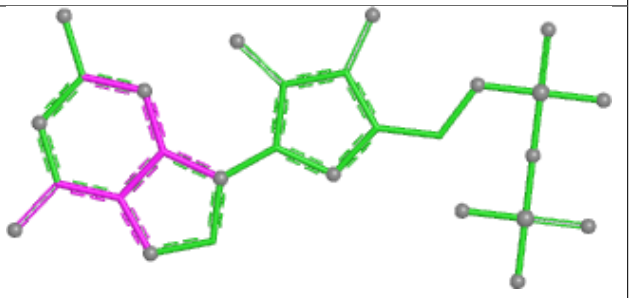
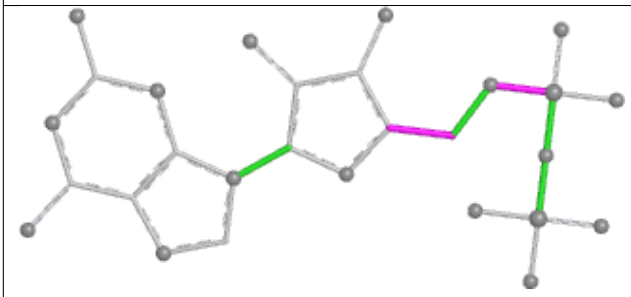
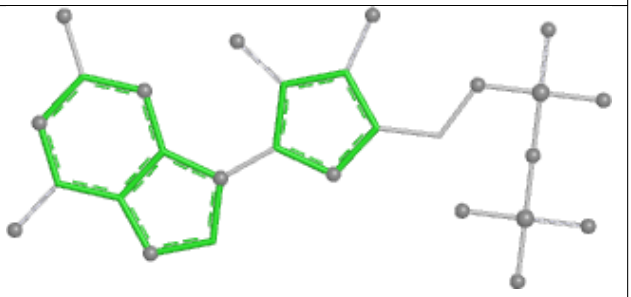


Rings

Ligand GDP SD 500	
 Bond lengths	 Bond angles
 Torsions	 Rings

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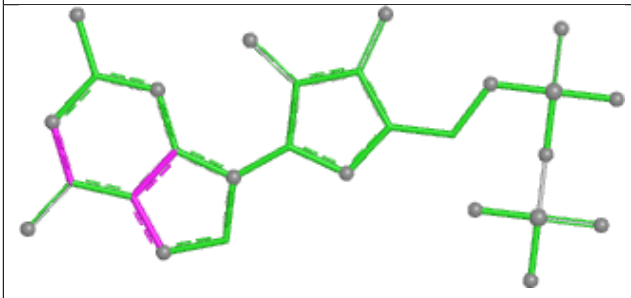
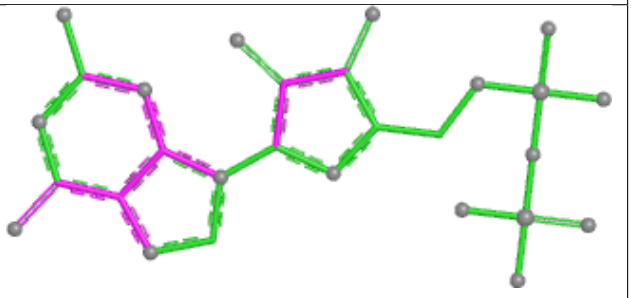
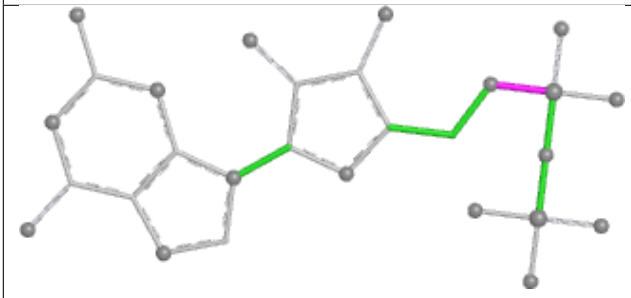
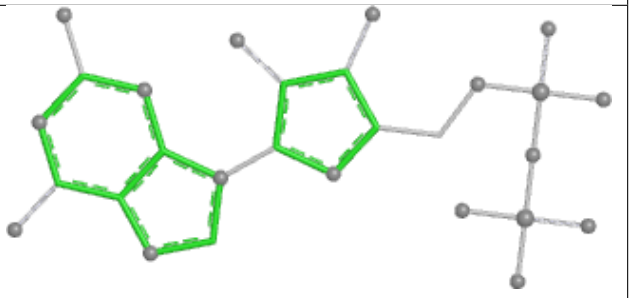
 Bond lengths	 Bond angles
 Torsions	 Rings

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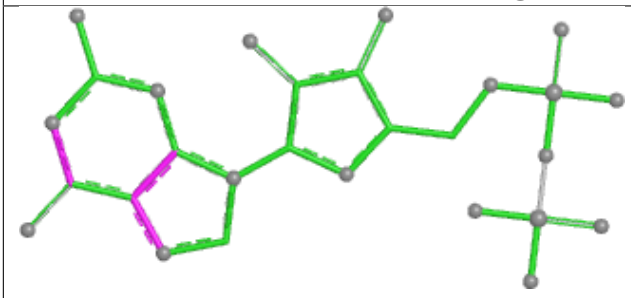
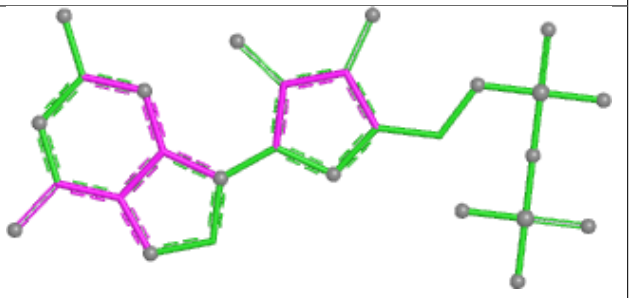
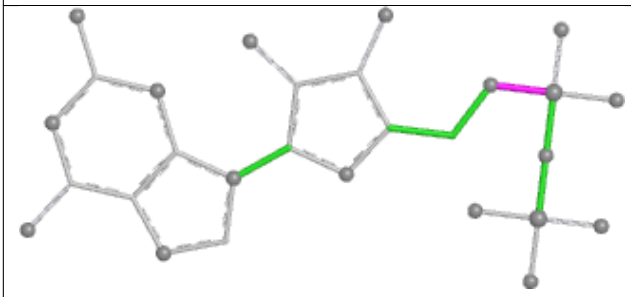
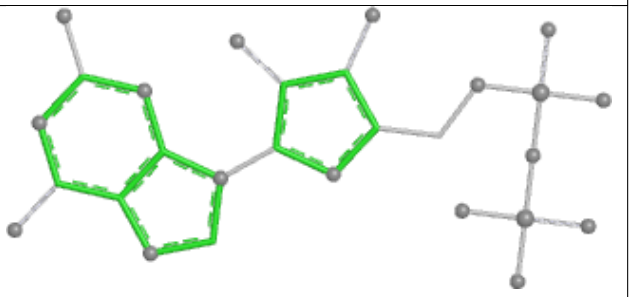
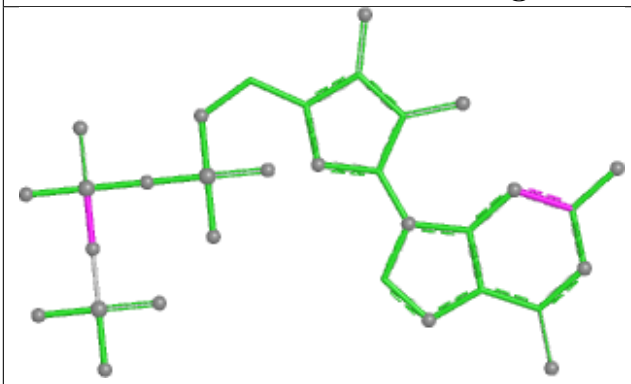
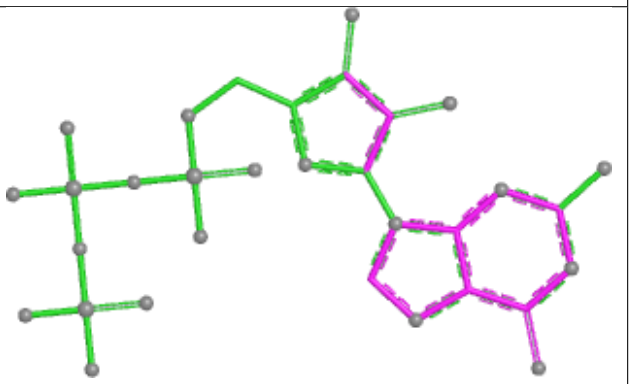
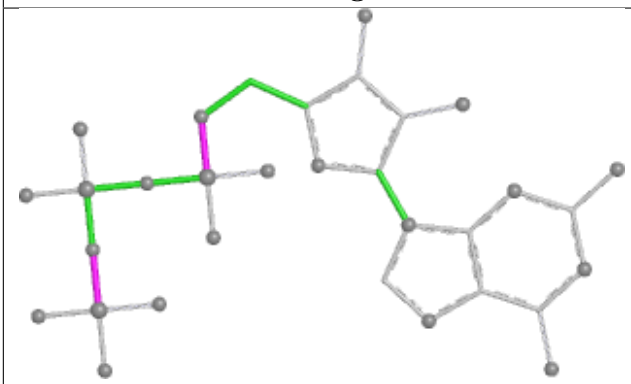
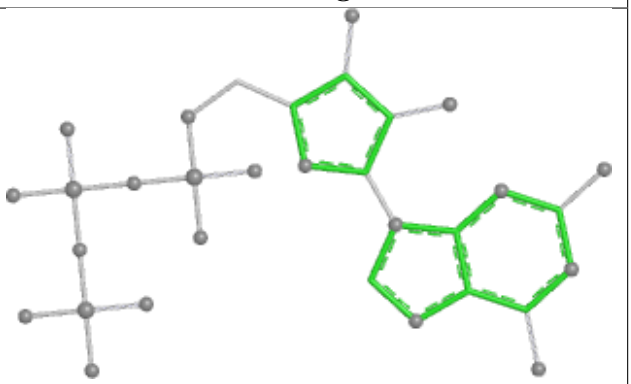
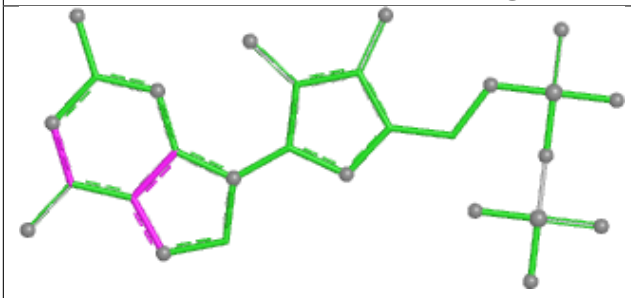
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GTP KF 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GDP DM 500



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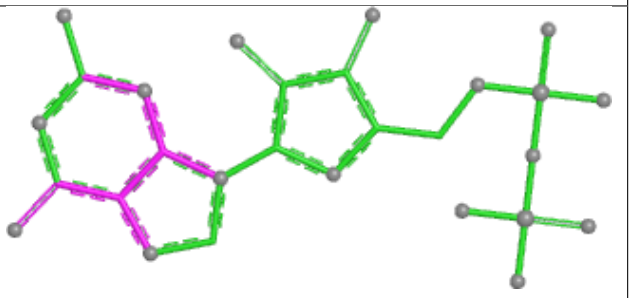

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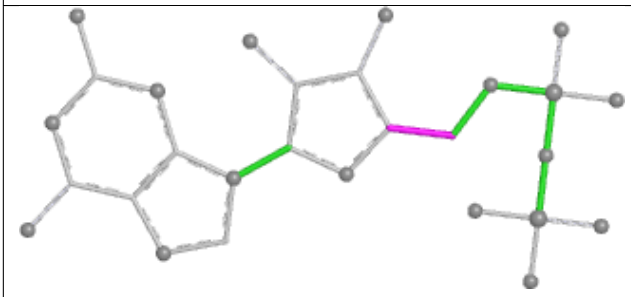

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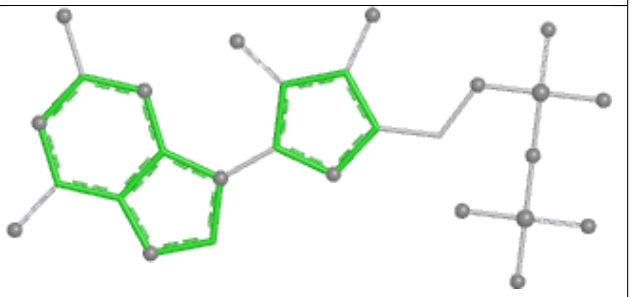
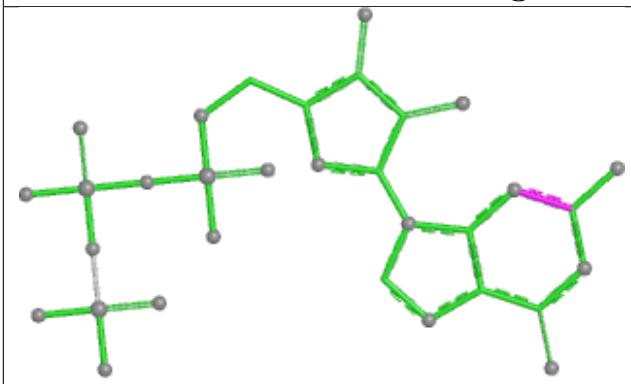


Rings

Ligand GTP CB 501



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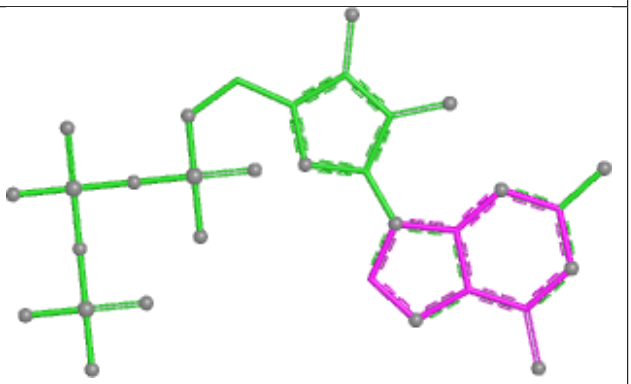

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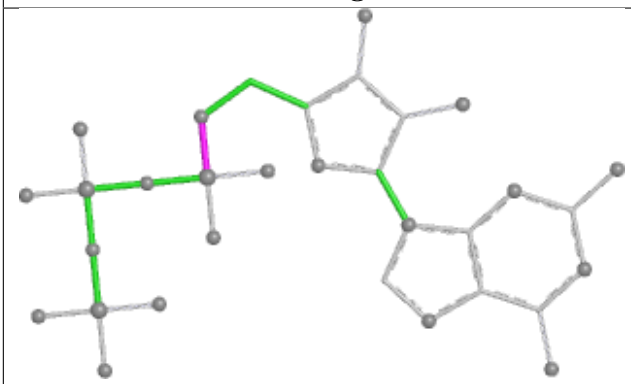

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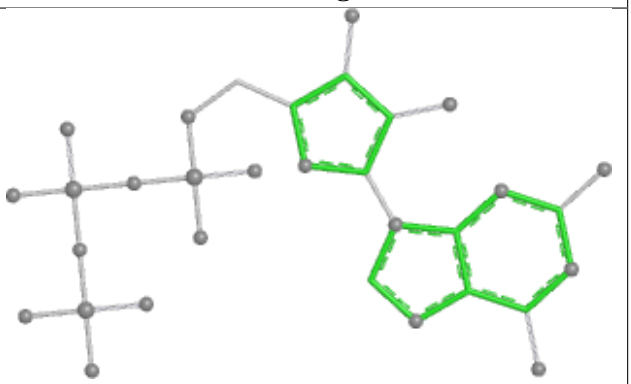
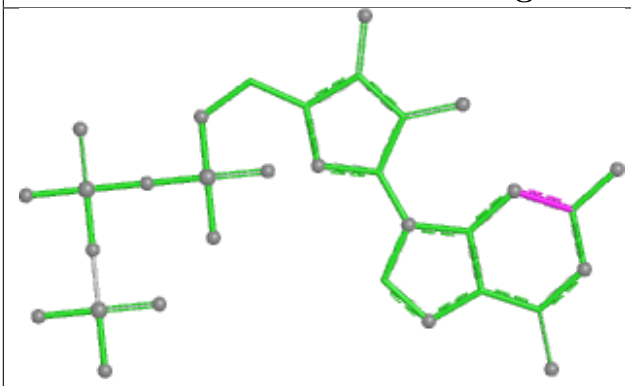


Rings

Ligand GTP OI 501



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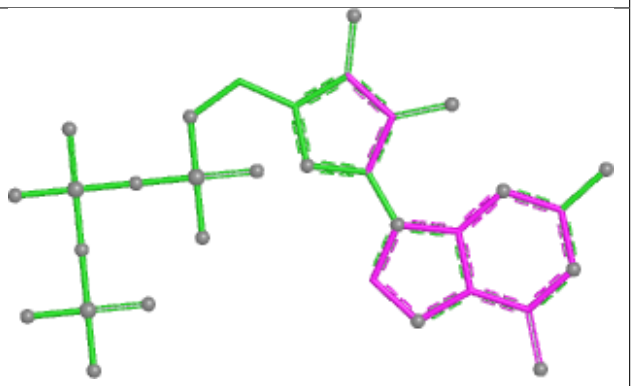

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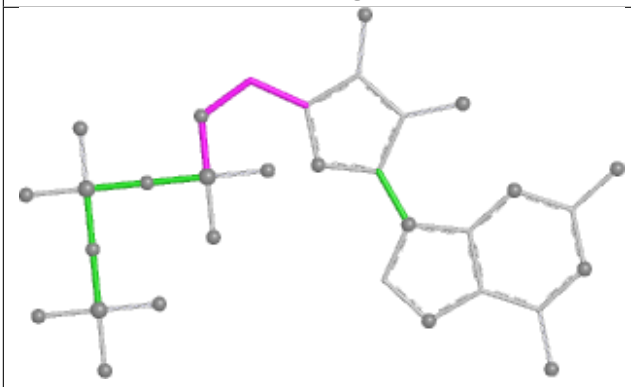

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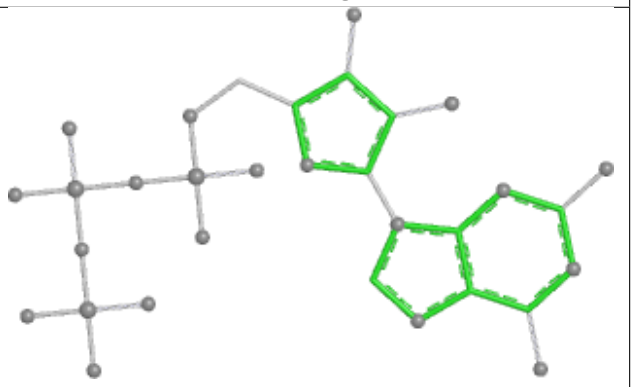
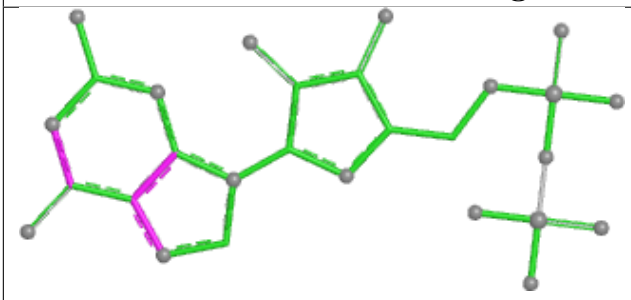


Rings

Ligand GDP HL 500



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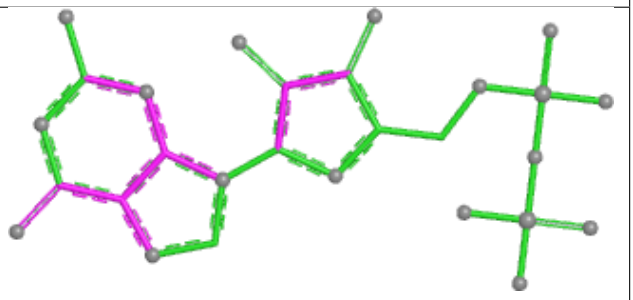

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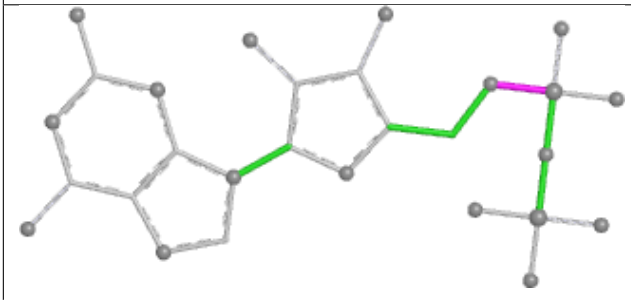

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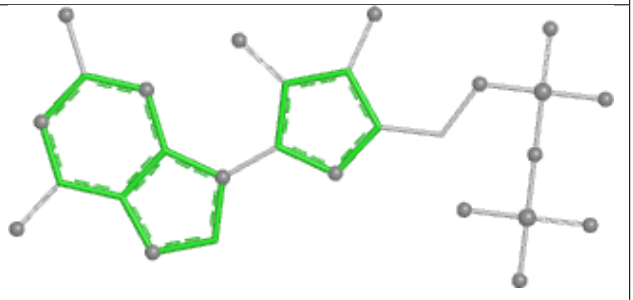
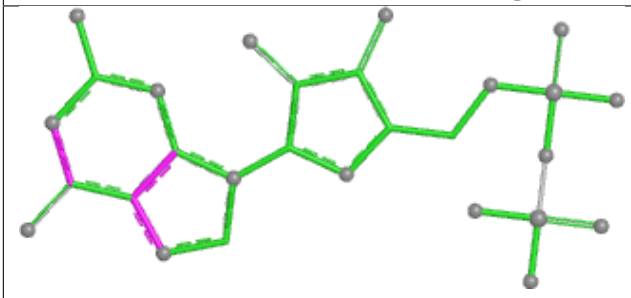


Rings

Ligand GDP KE 500



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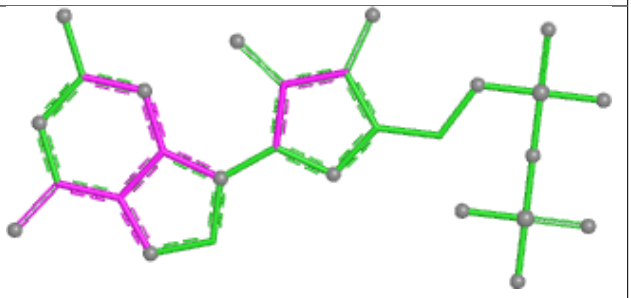
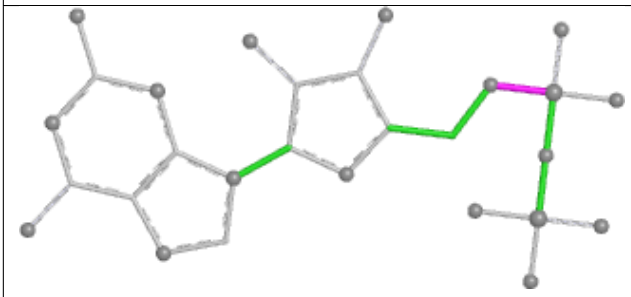


Bond angles



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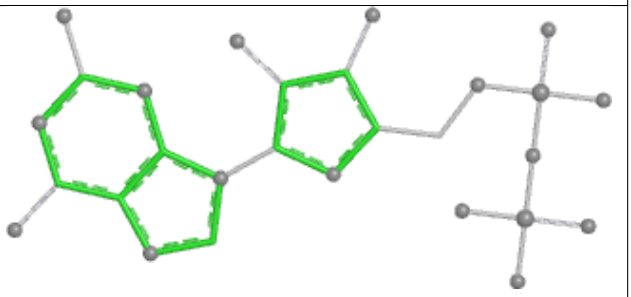
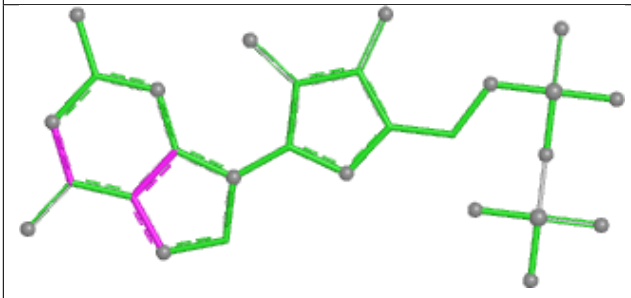


Rings

Ligand GDP BB 500



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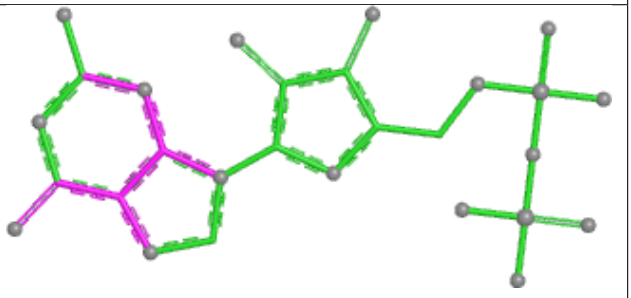

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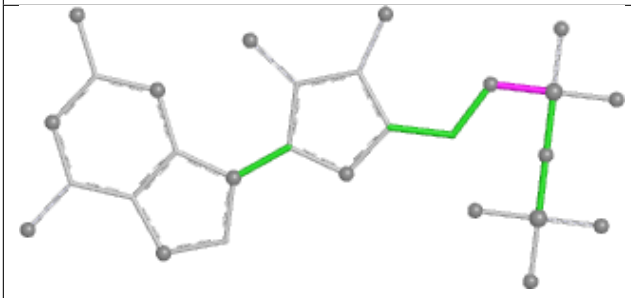

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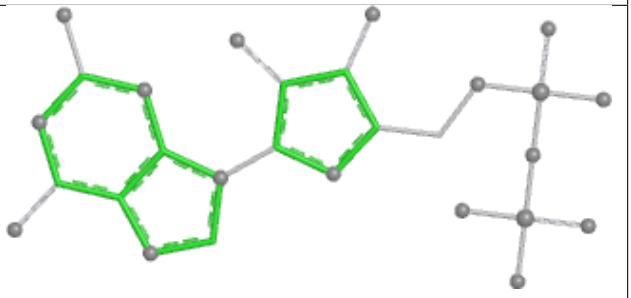
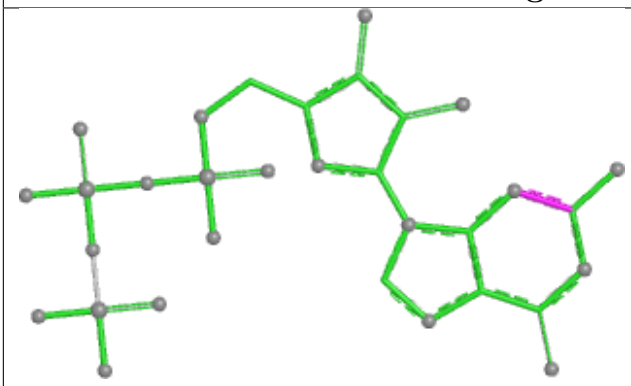


Rings

Ligand GTP J 501



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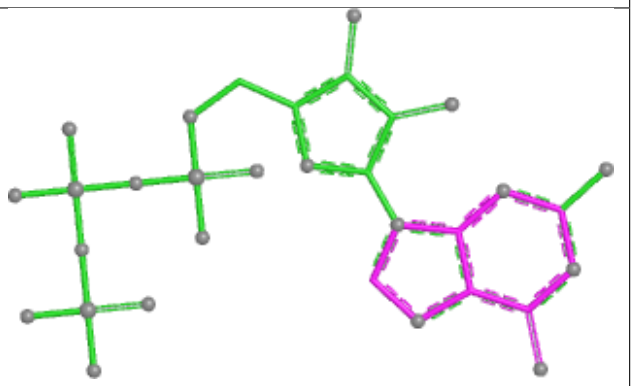
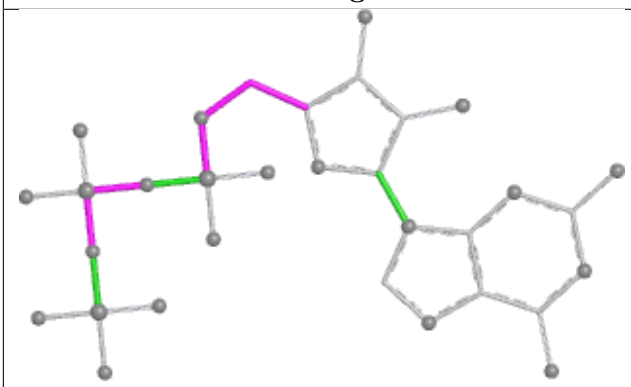


Bond angles



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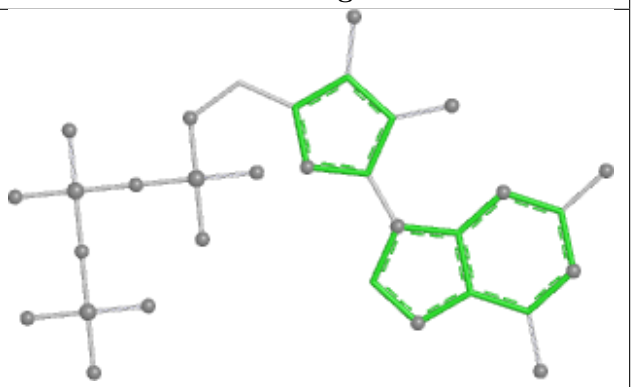
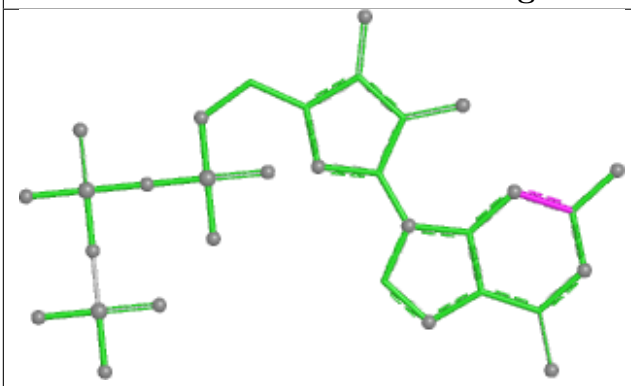


Rings

Ligand GTP FI 501



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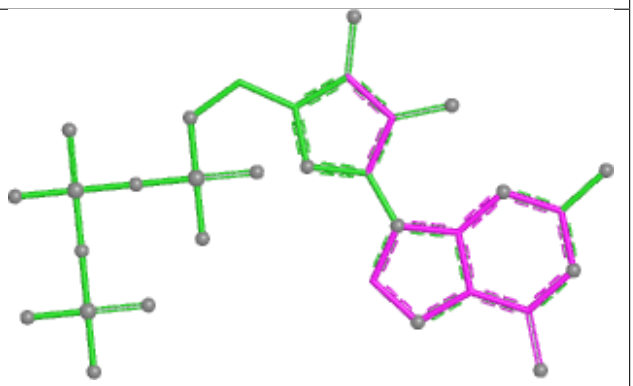

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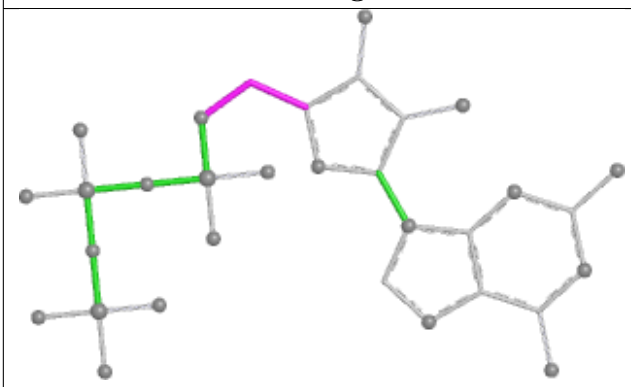
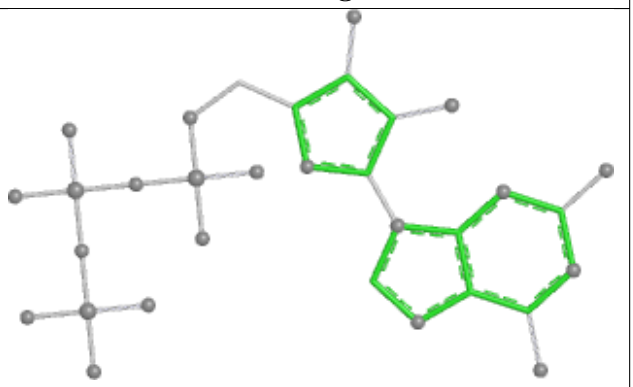
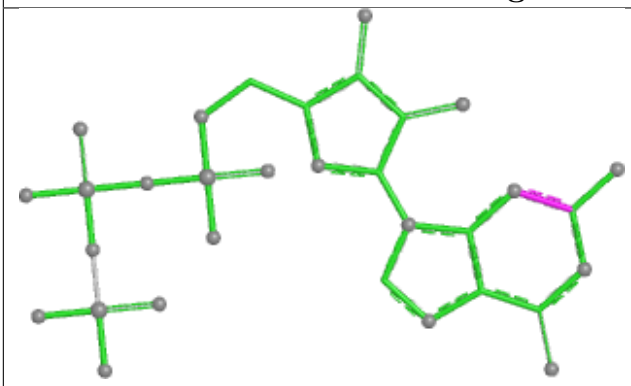


Torsions



Rings

Ligand GTP UG 501



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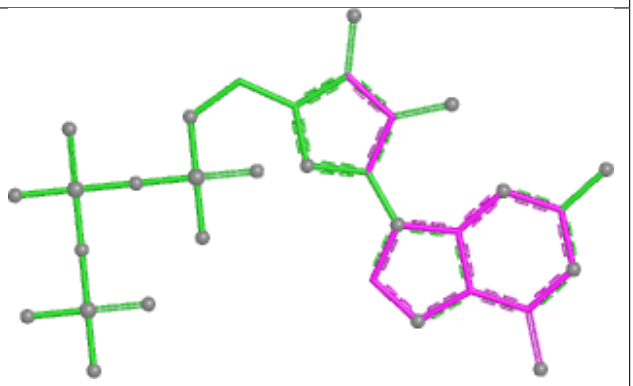

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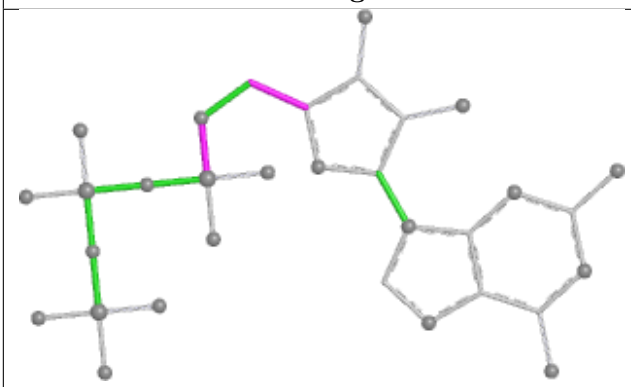

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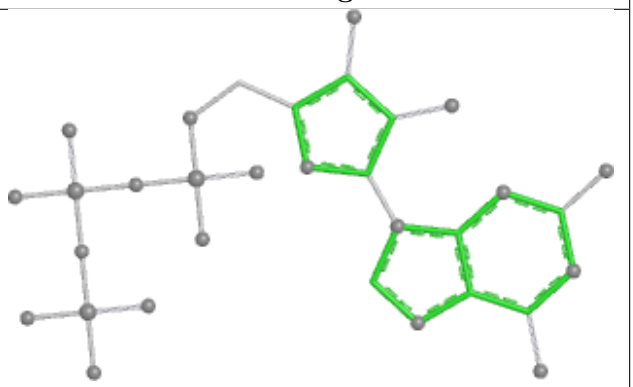
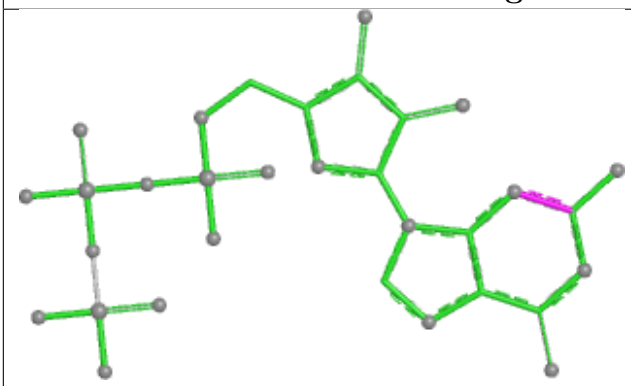


Rings

Ligand GTP OM 501



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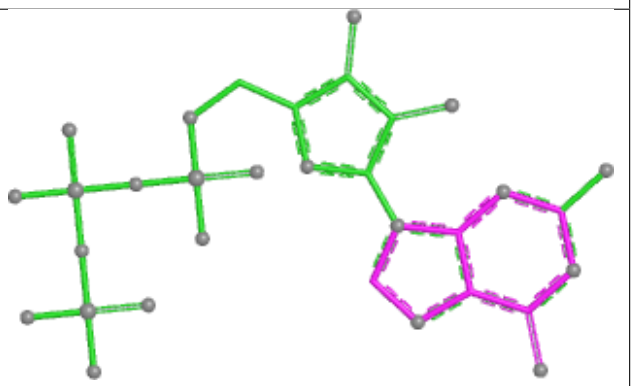

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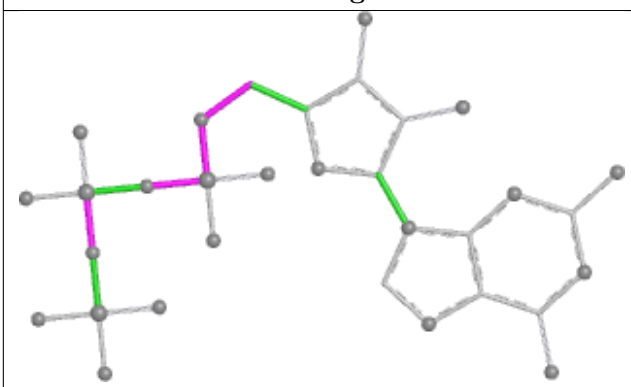

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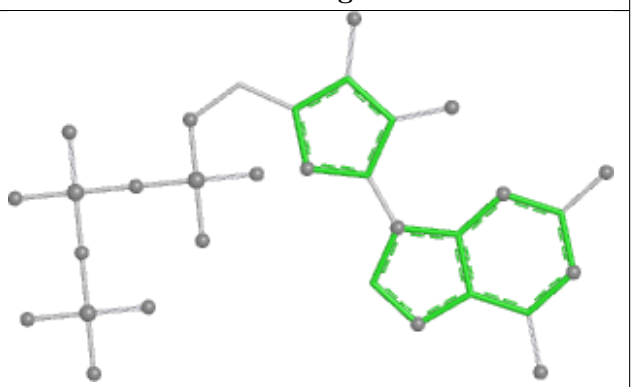
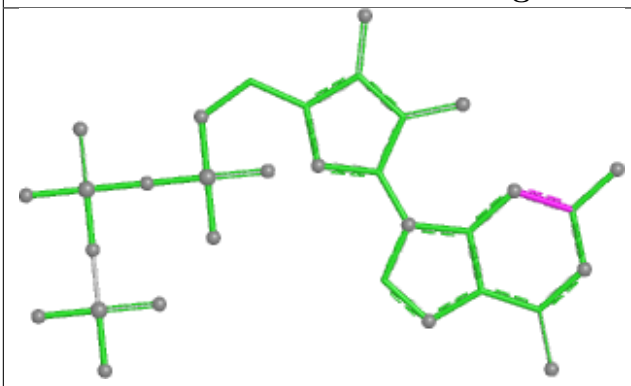


Rings

Ligand GTP SC 501



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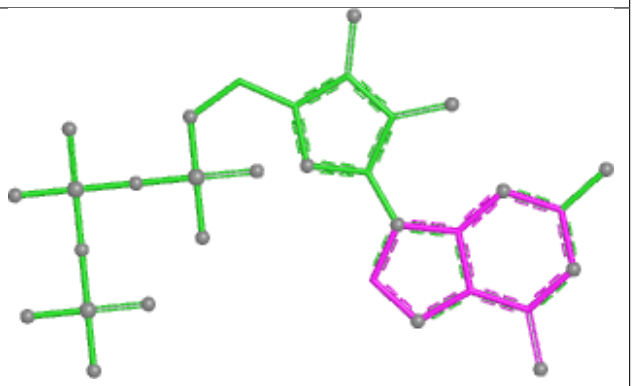

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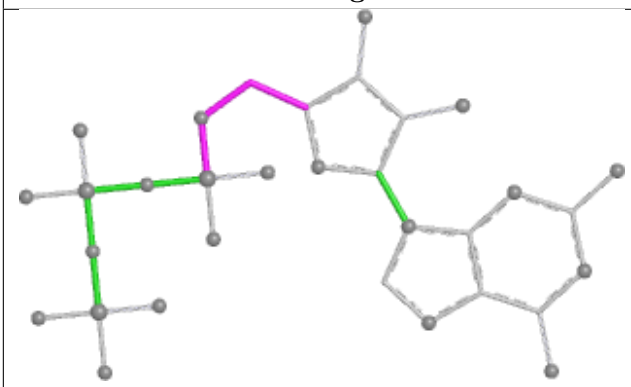

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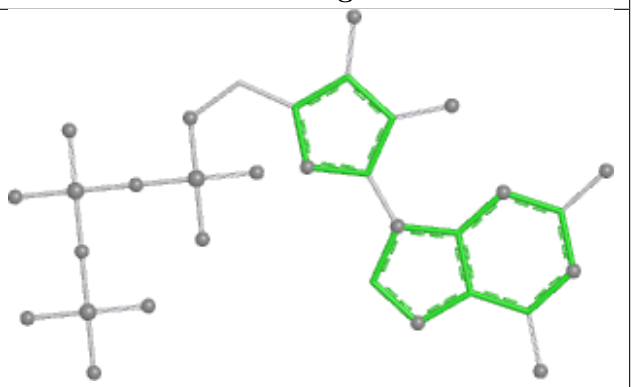
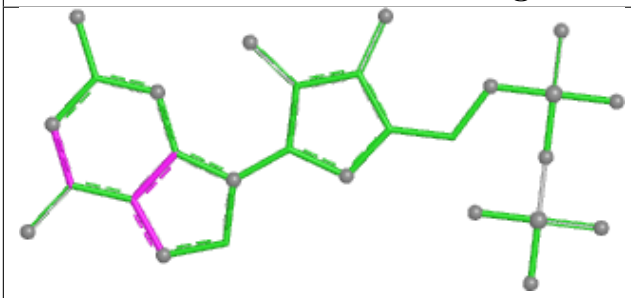


Rings

Ligand GDP JC 500



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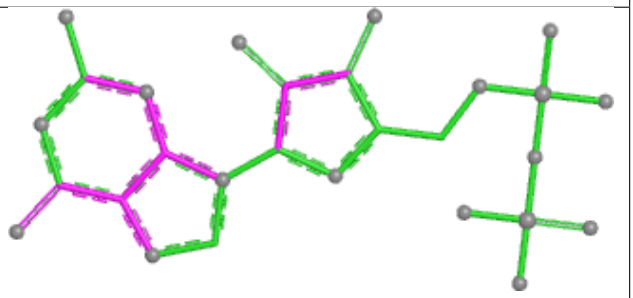

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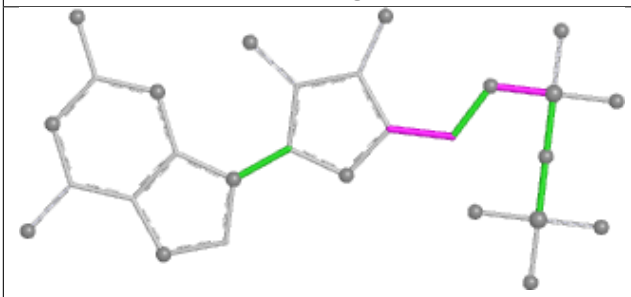

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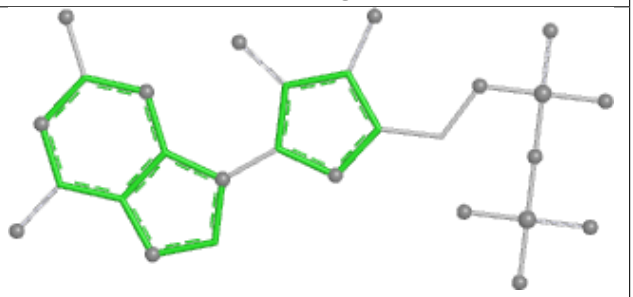
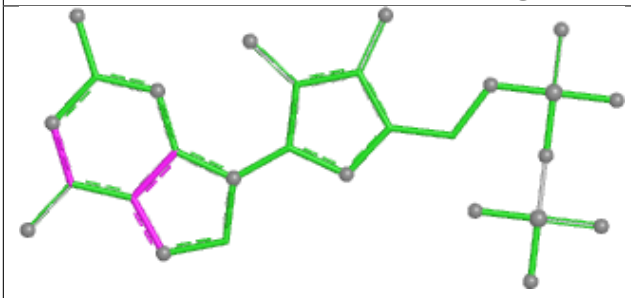


Rings

Ligand GDP RI 500



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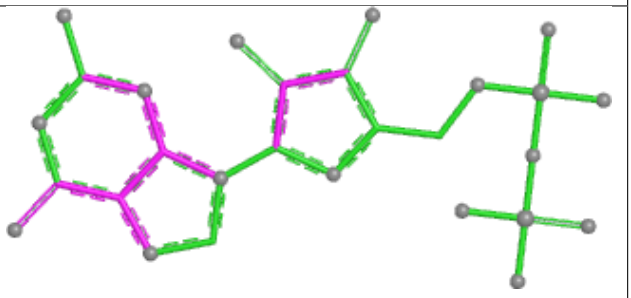

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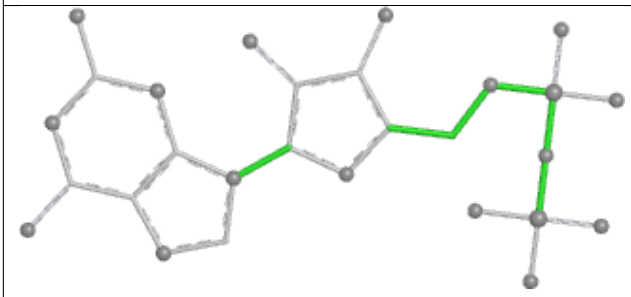

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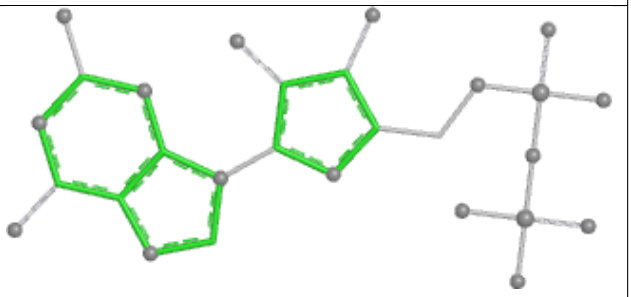
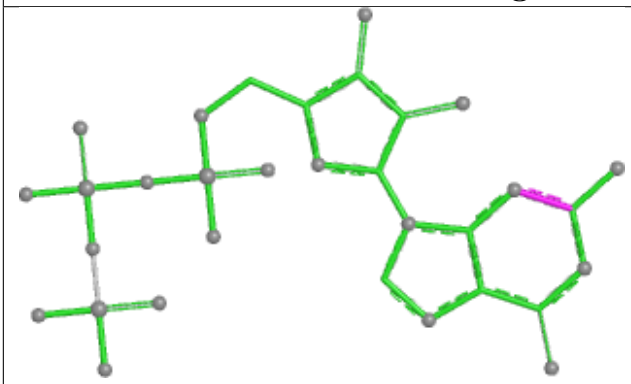


Rings

Ligand GTP LN 501



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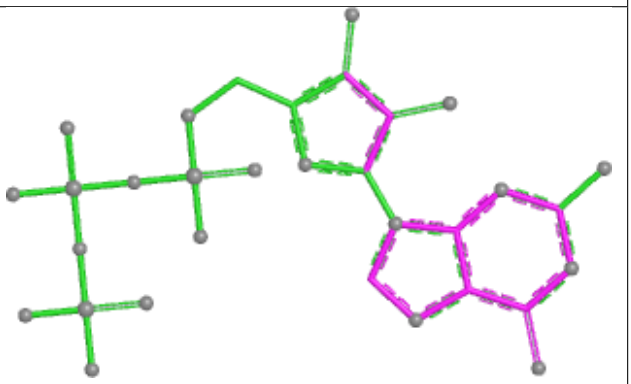

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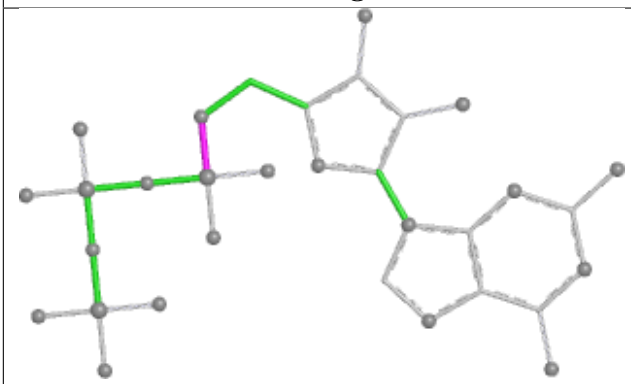

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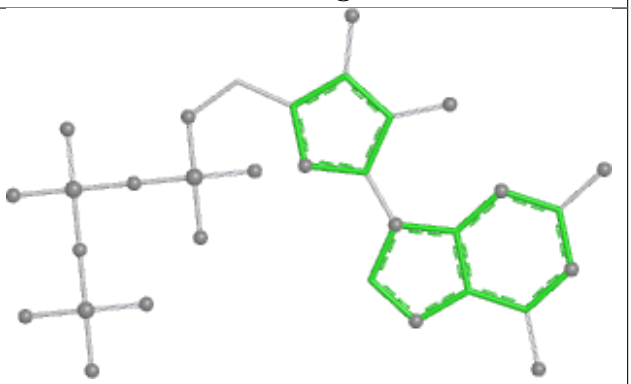
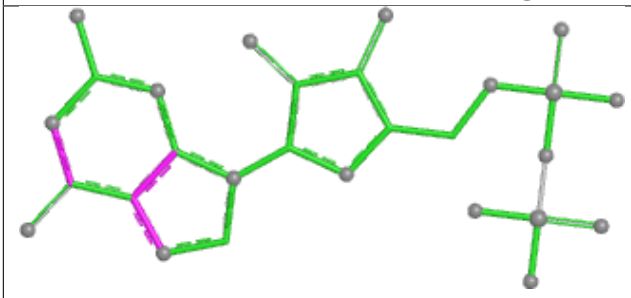


Rings

Ligand GDP JI 500



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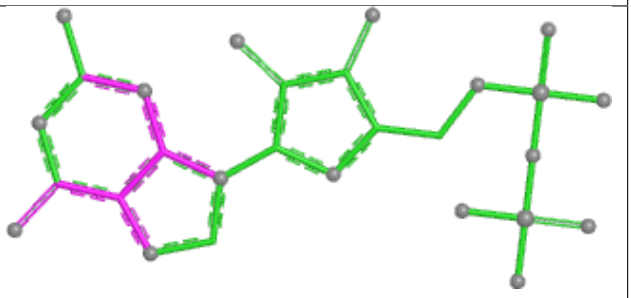

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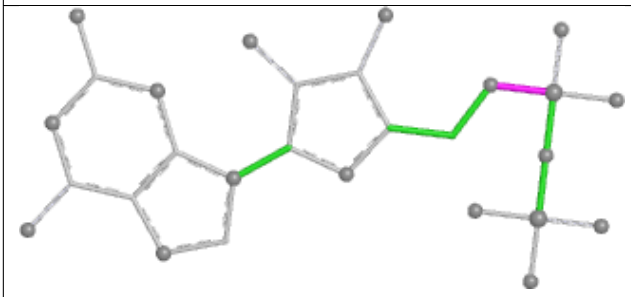

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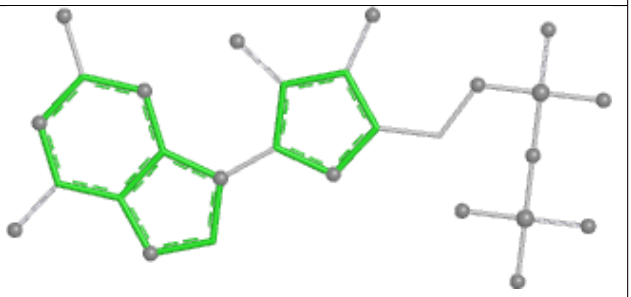
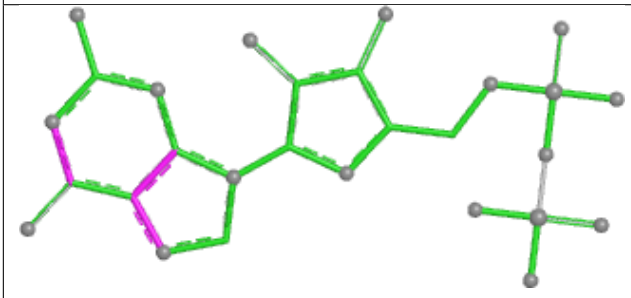


Rings

Ligand GDP OH 500



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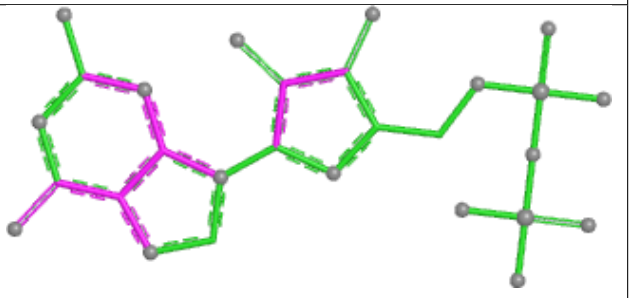

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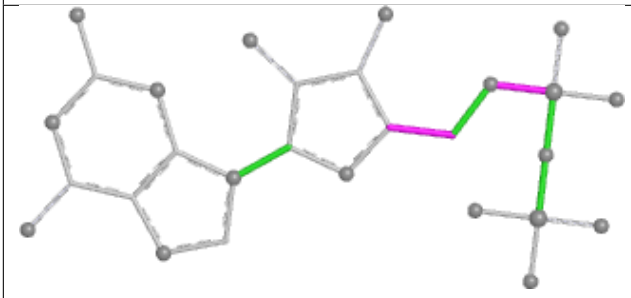

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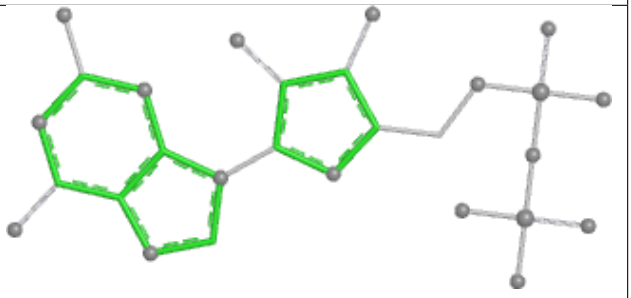
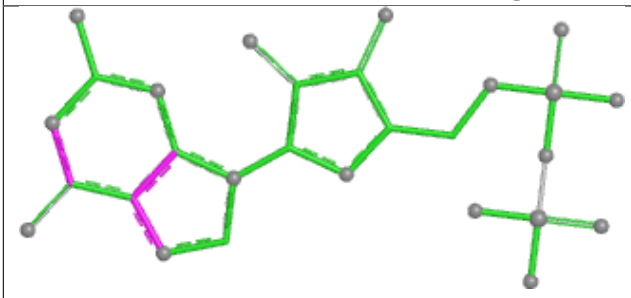


Rings

Ligand GDP MJ 500



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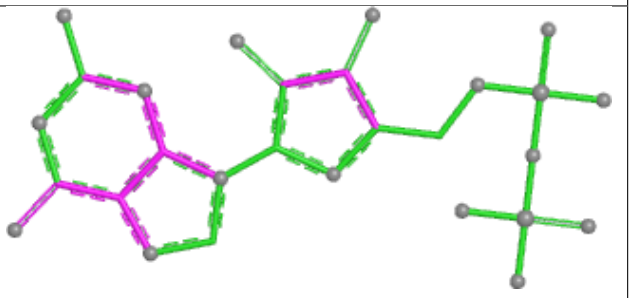

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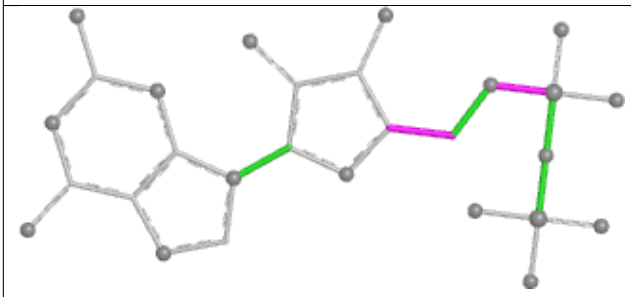

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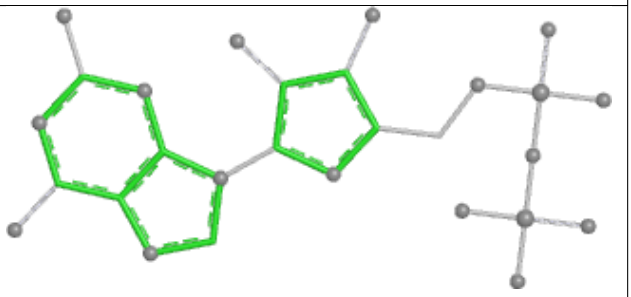
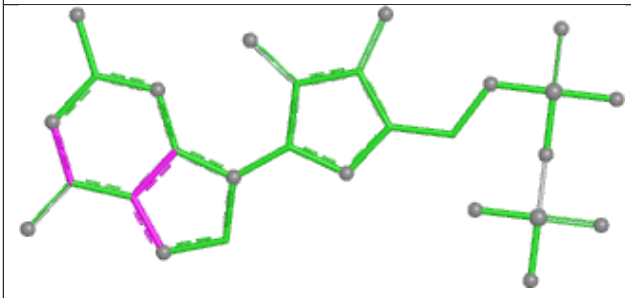


Rings

Ligand GDP PJ 500



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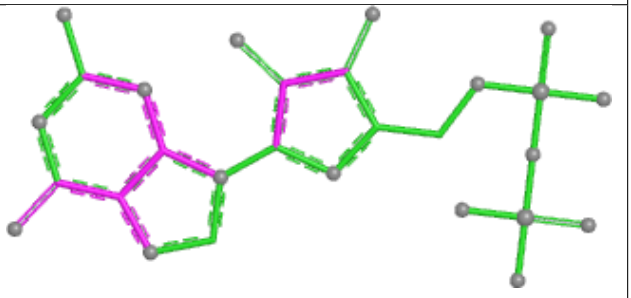

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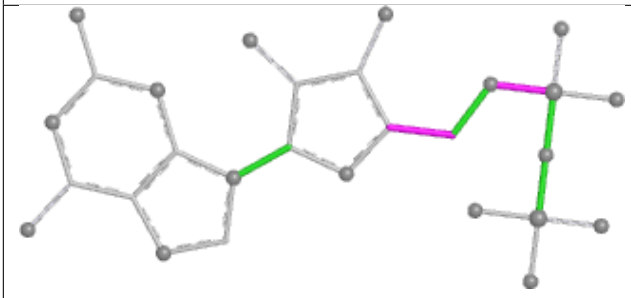

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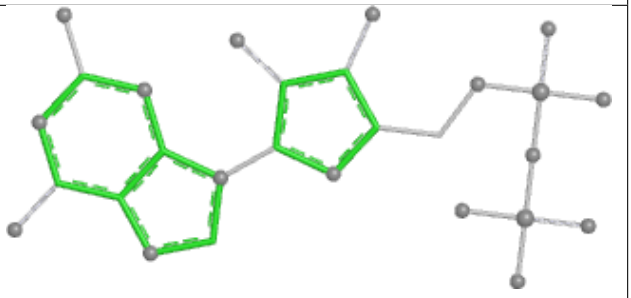
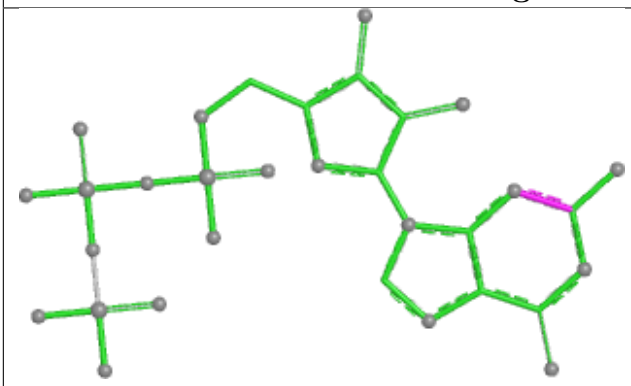


Rings

Ligand GTP JD 501



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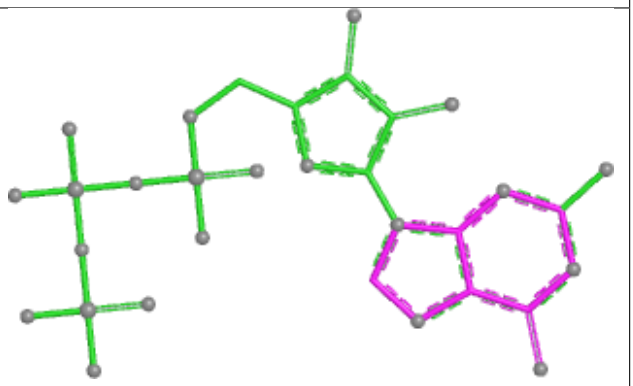
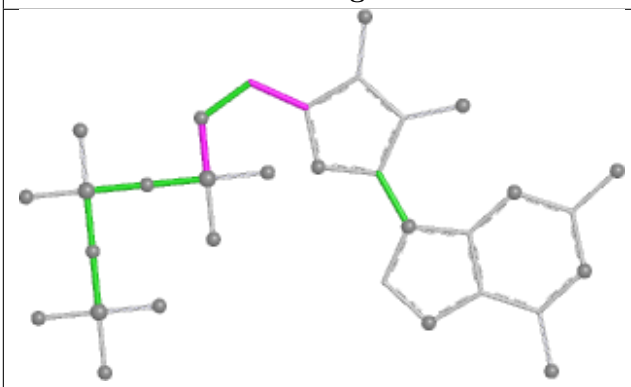


Bond angles



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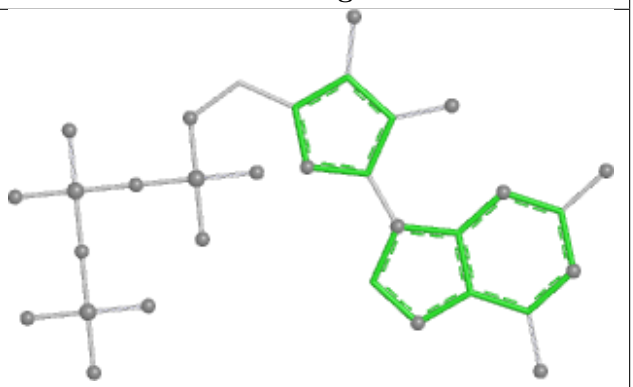
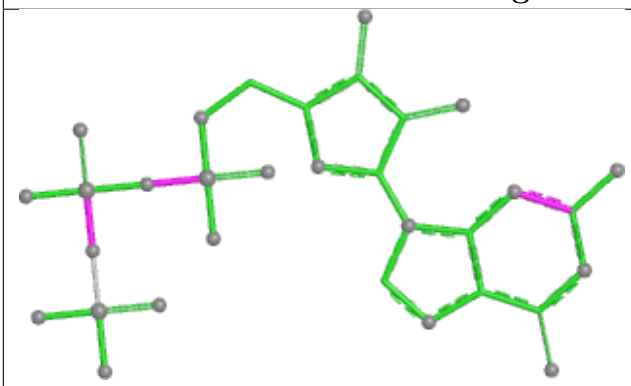


Rings

Ligand GTP EE 501



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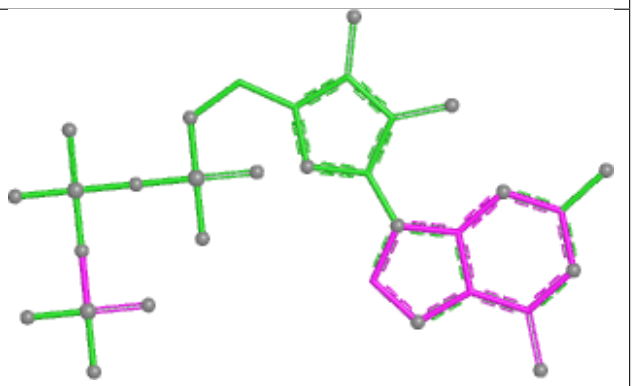

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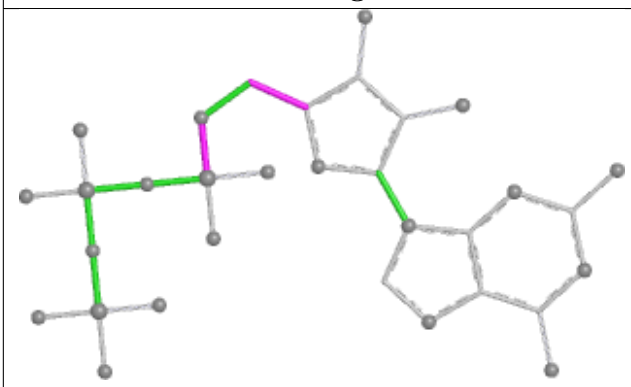

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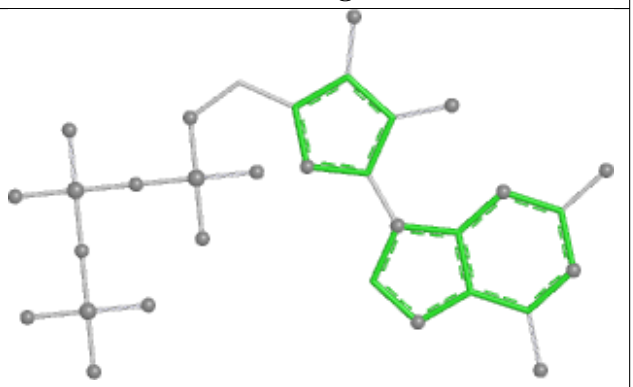
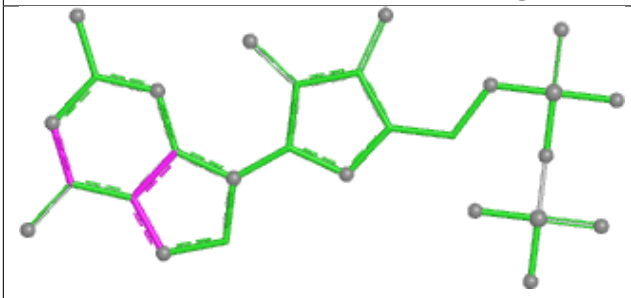


Rings

Ligand GDP JE 500



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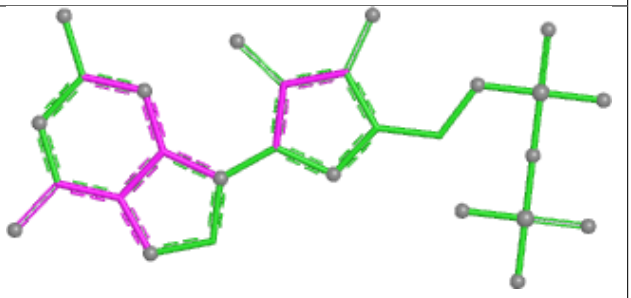
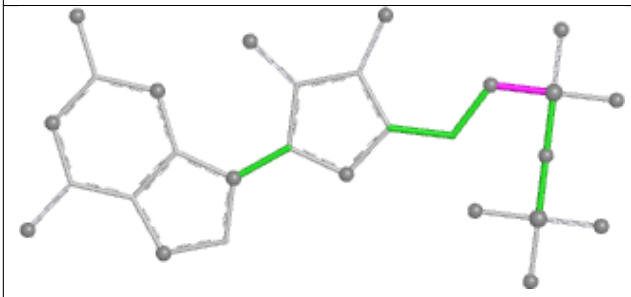


Bond angles



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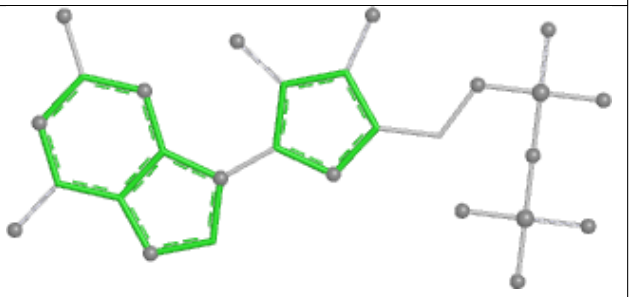
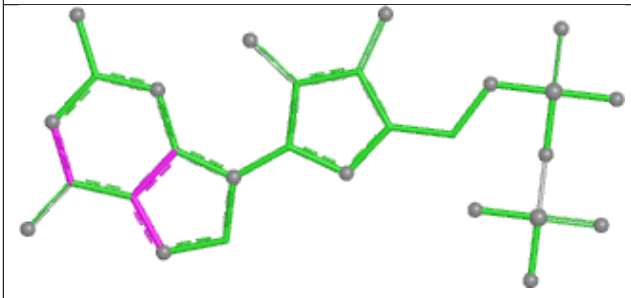


Rings

Ligand GDP IH 500



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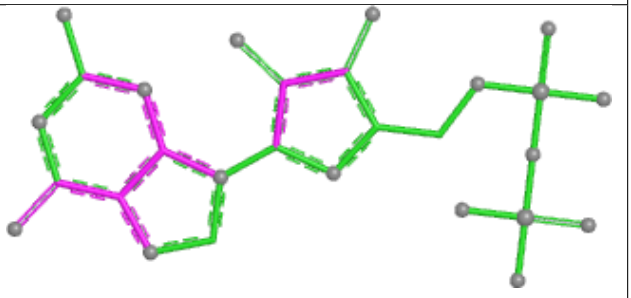

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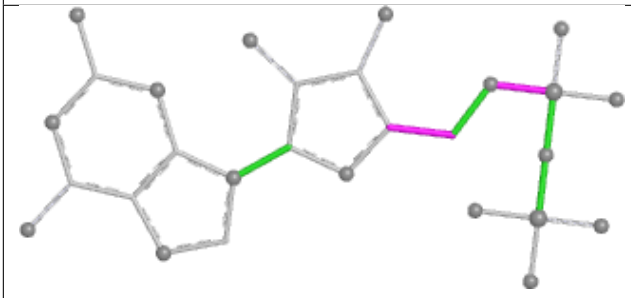
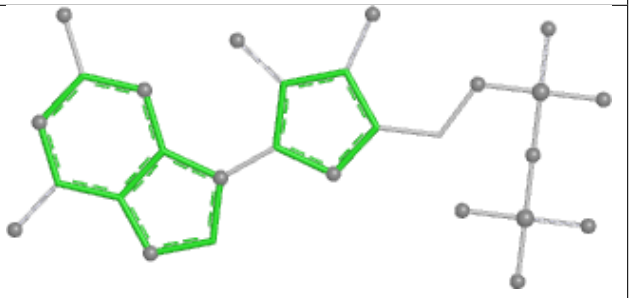
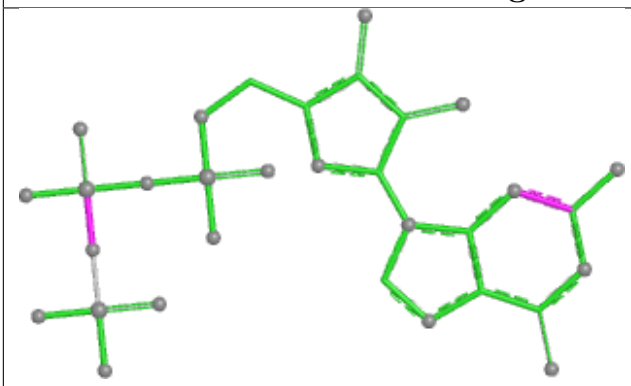


Torsions



Rings

Ligand GTP HC 501



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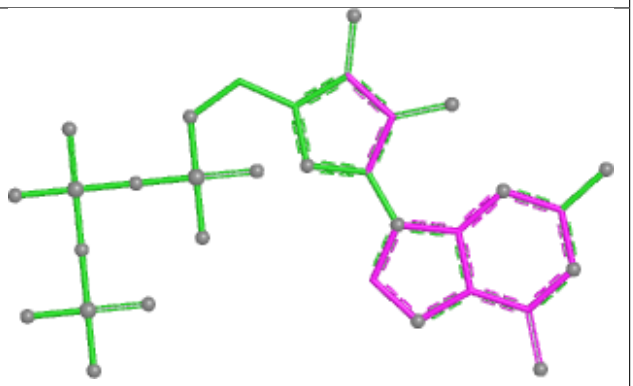

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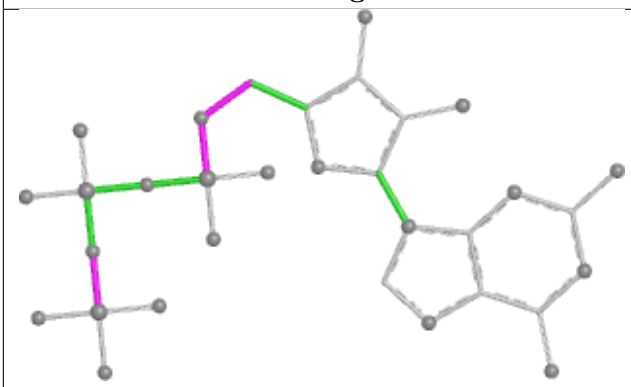

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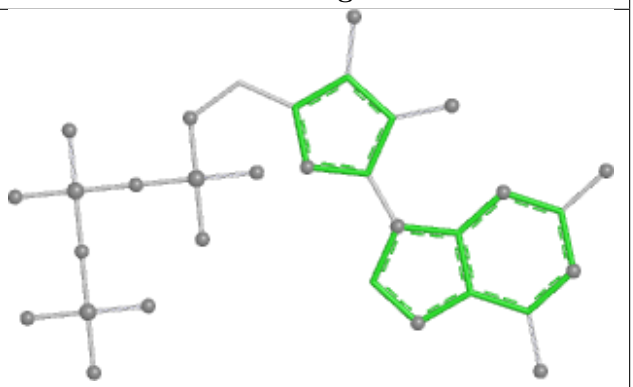
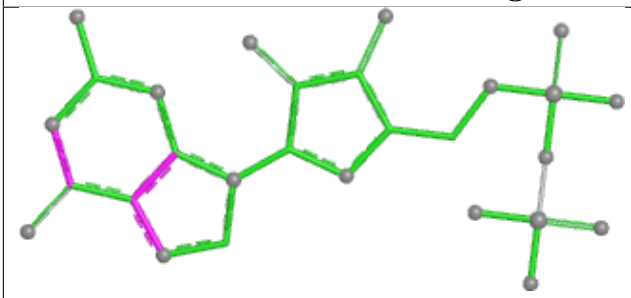


Rings

Ligand GDP DK 500



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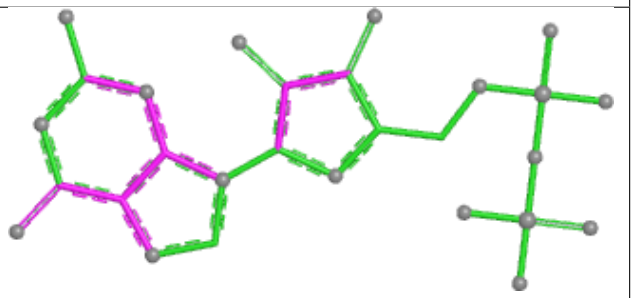

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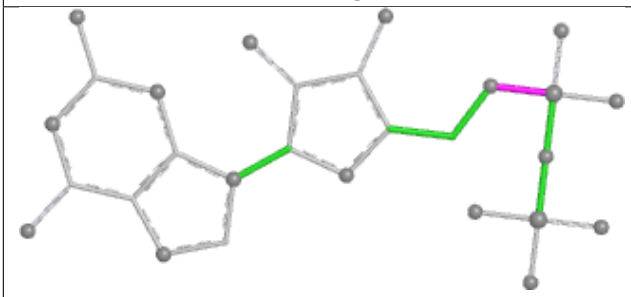

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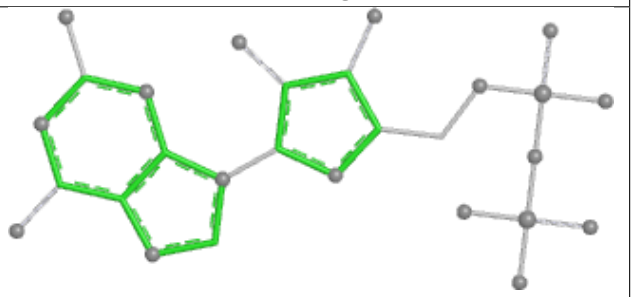
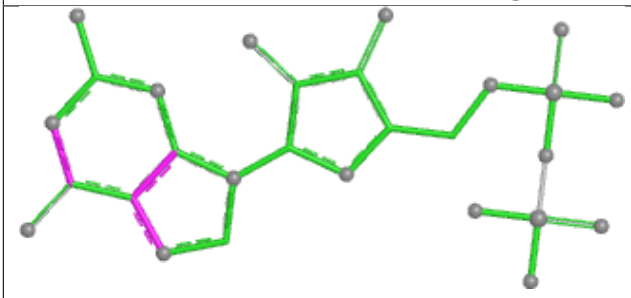


Rings

Ligand GDP AD 500



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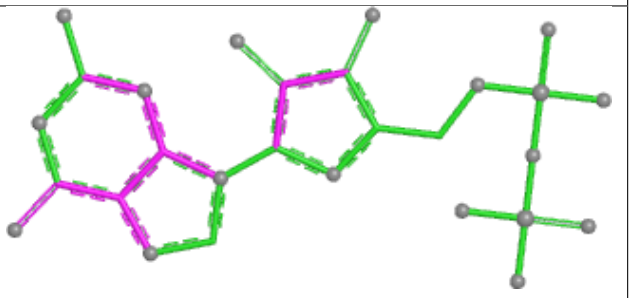

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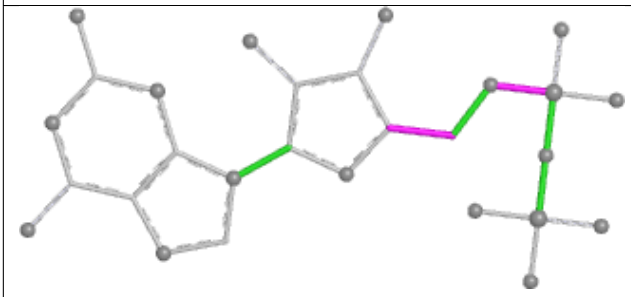

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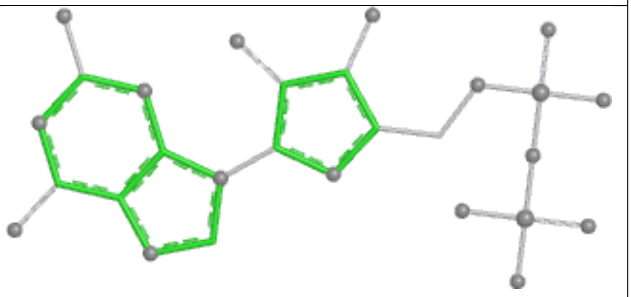
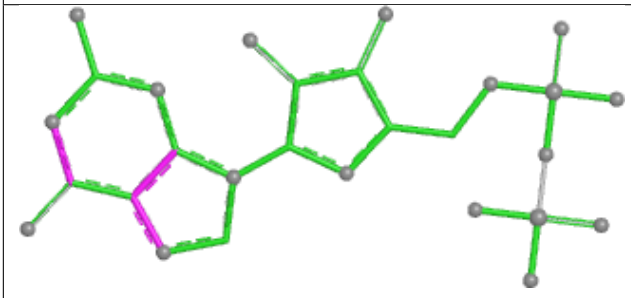


Rings

Ligand GDP QK 500



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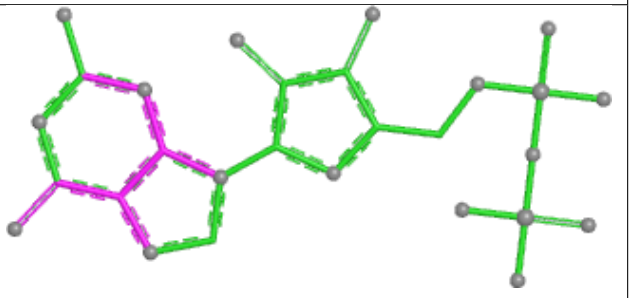

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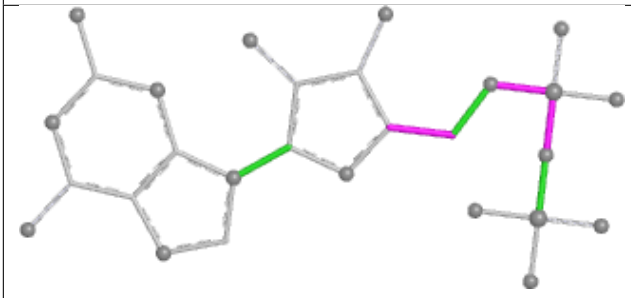

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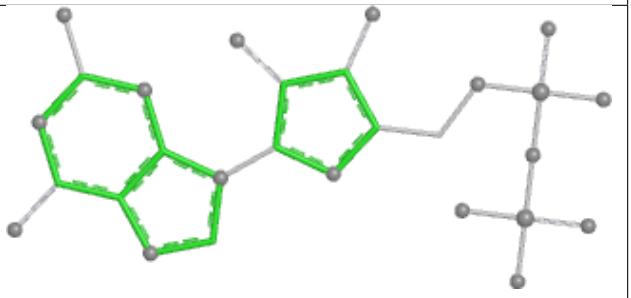
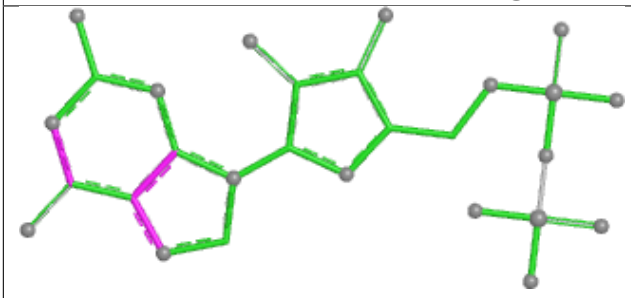


Rings

Ligand GDP DC 500



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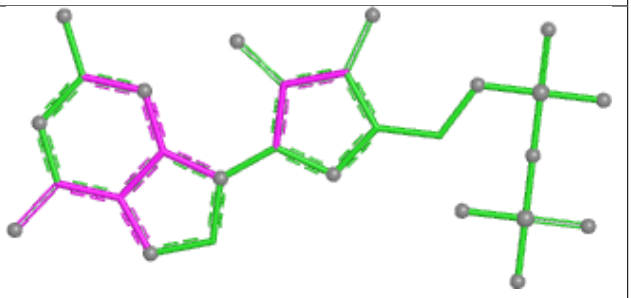

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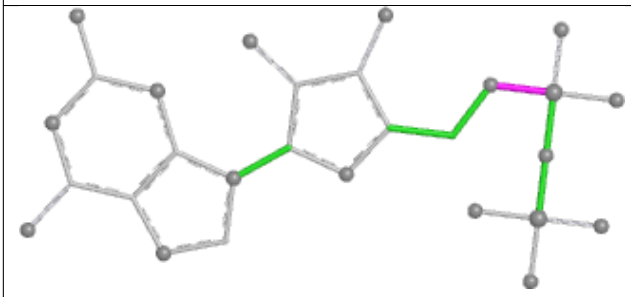

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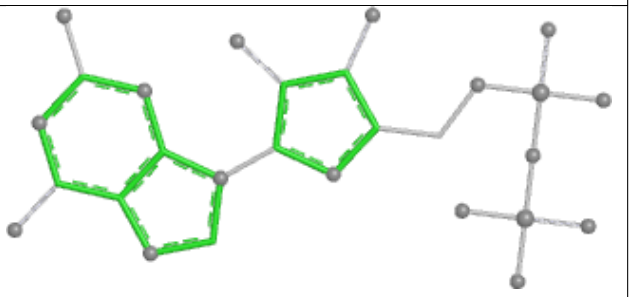
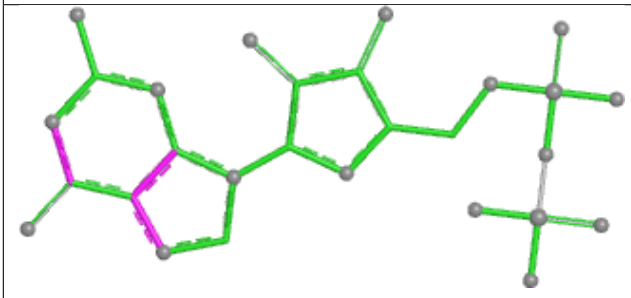


Rings

Ligand GDP E 500



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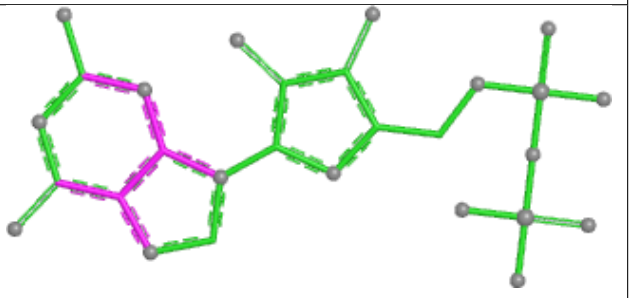

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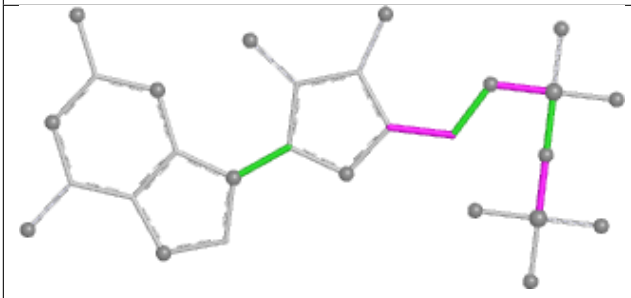

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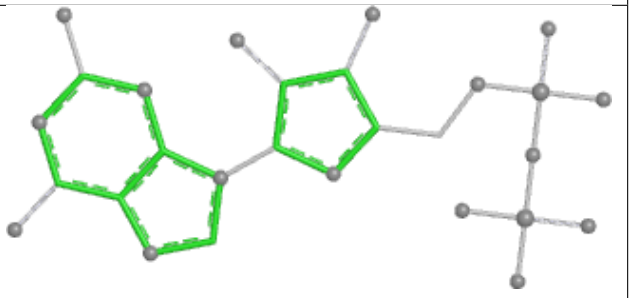
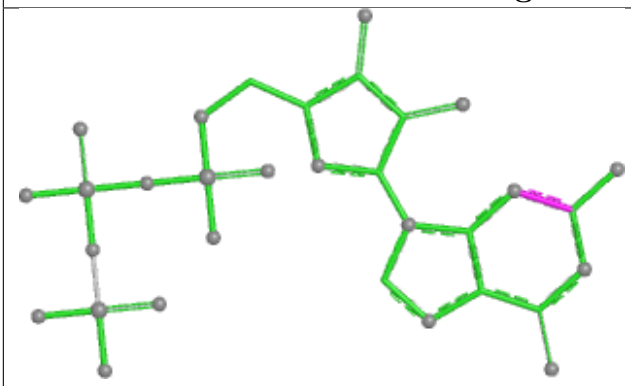


Rings

Ligand GTP HI 501



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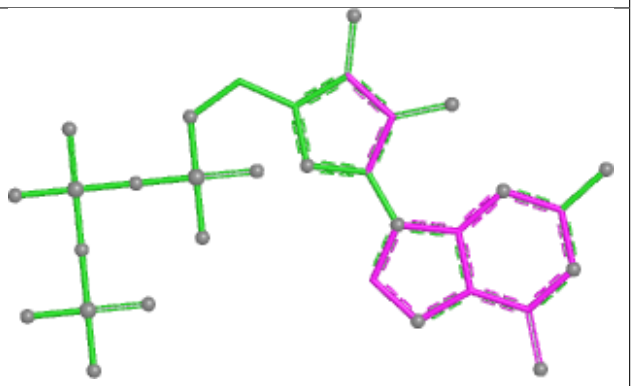

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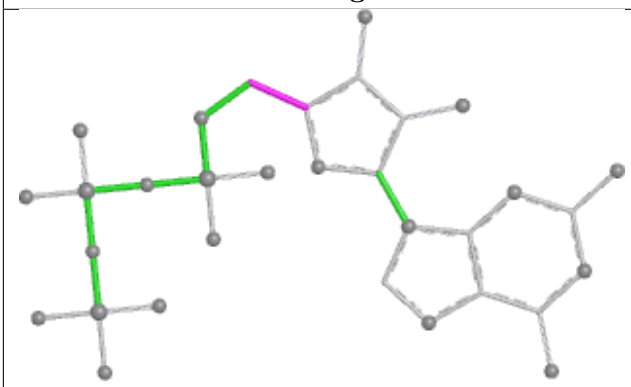

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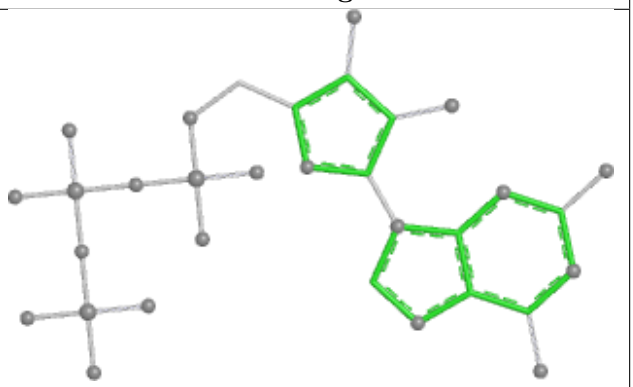
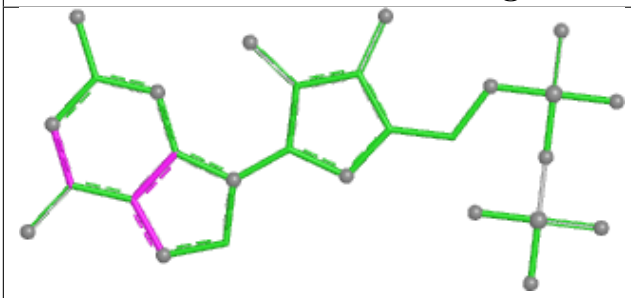


Rings

Ligand GDP WH 500



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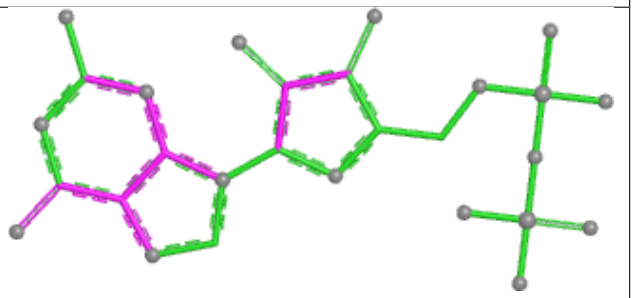

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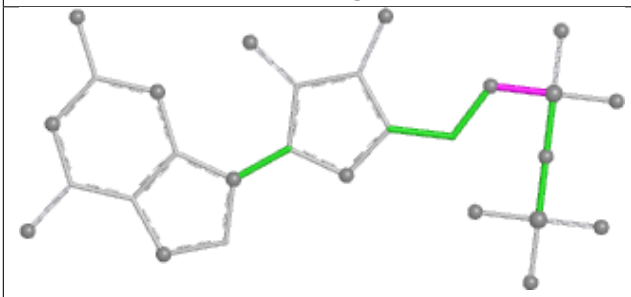

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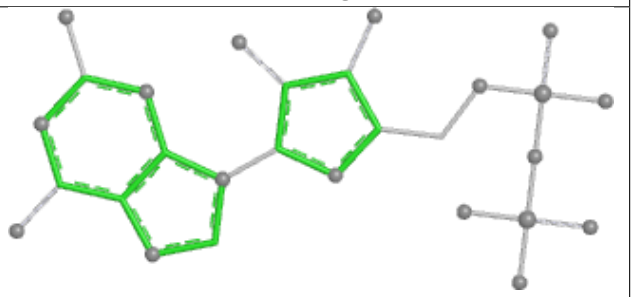
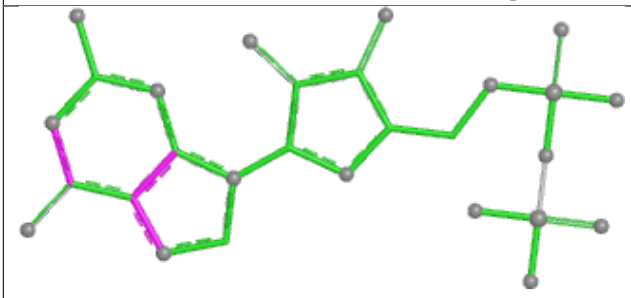


Rings

Ligand GDP CM 500



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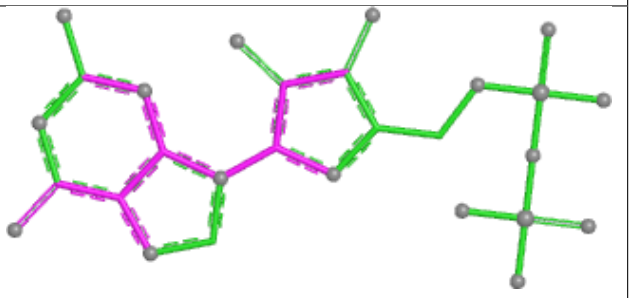

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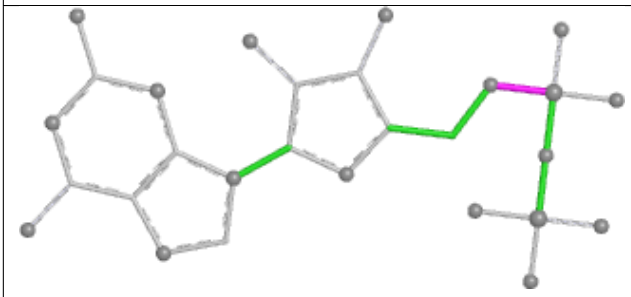

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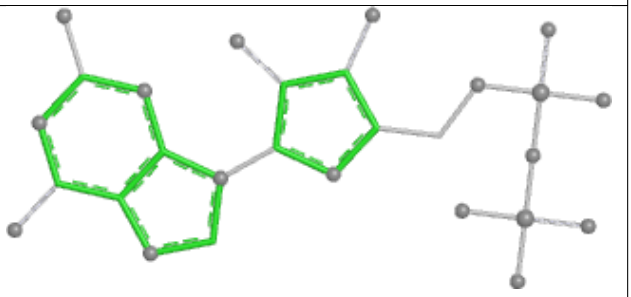
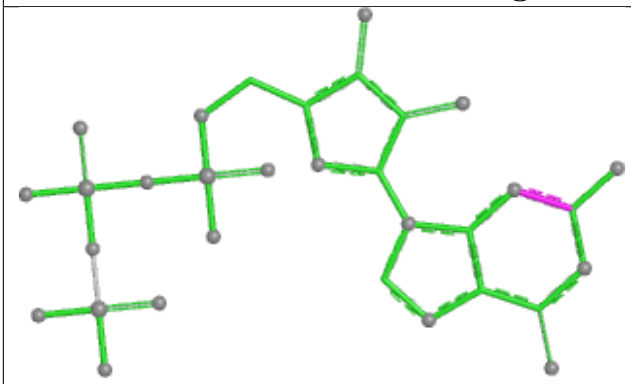


Rings

Ligand GTP TE 501



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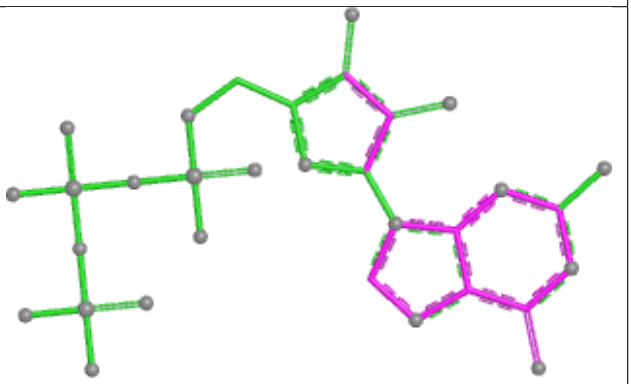

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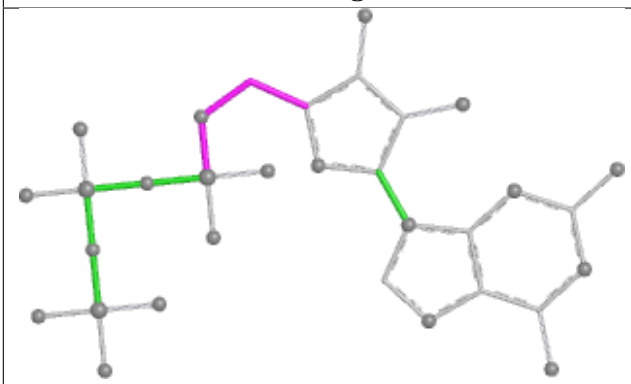

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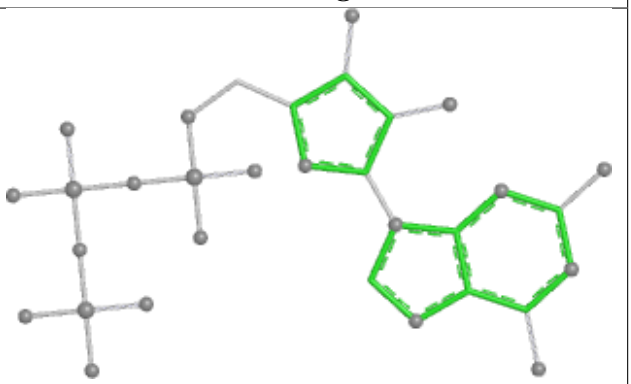
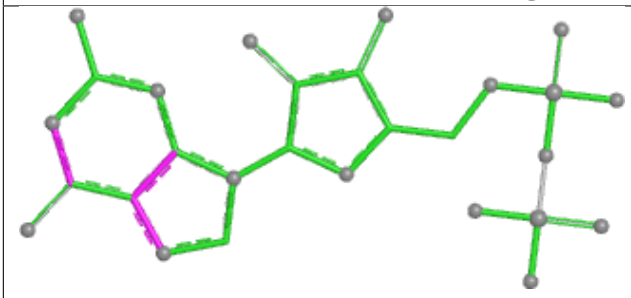


Rings

Ligand GDP F 500



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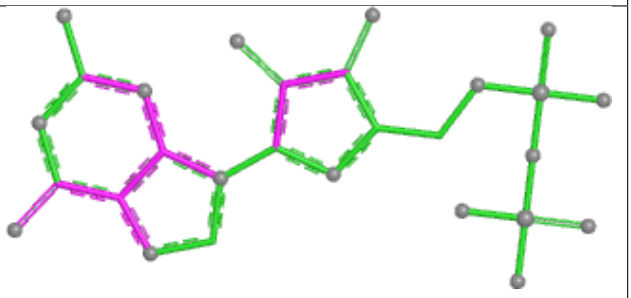
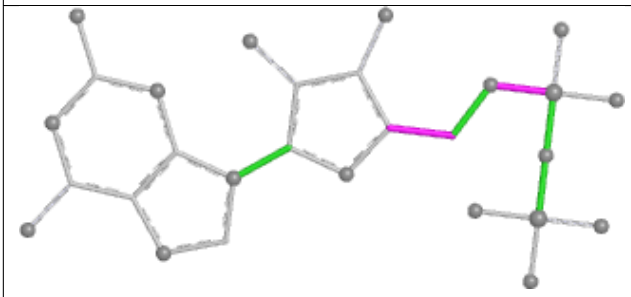


Bond angles



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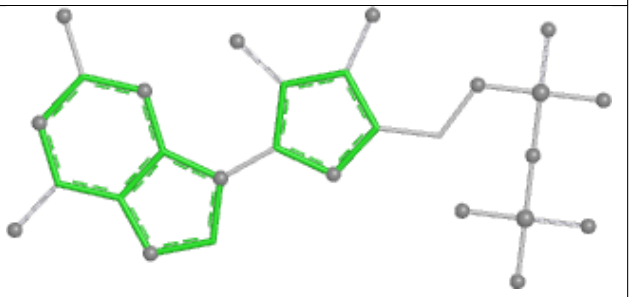
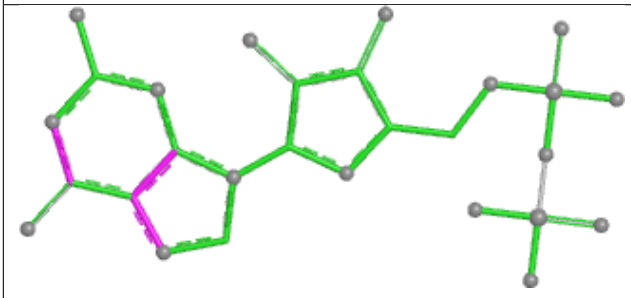


Rings

Ligand GDP OB 500



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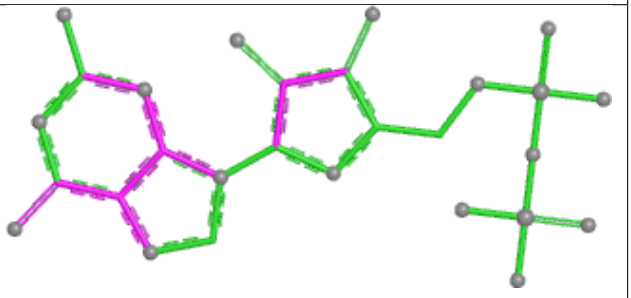
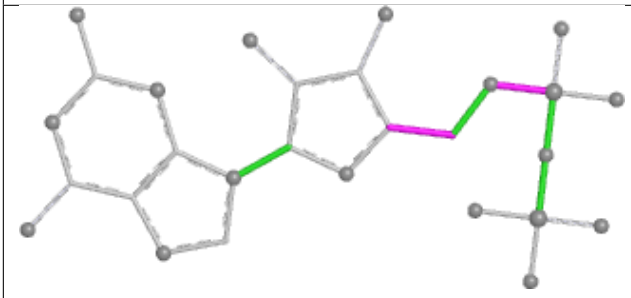


Bond angles



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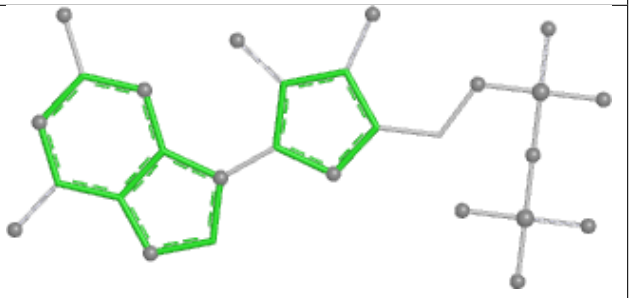
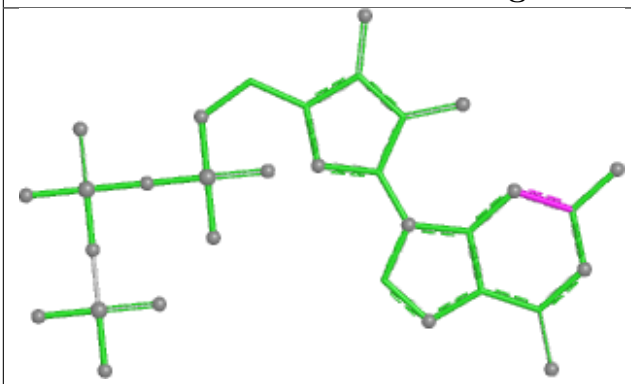


Rings

Ligand GTP CH 501



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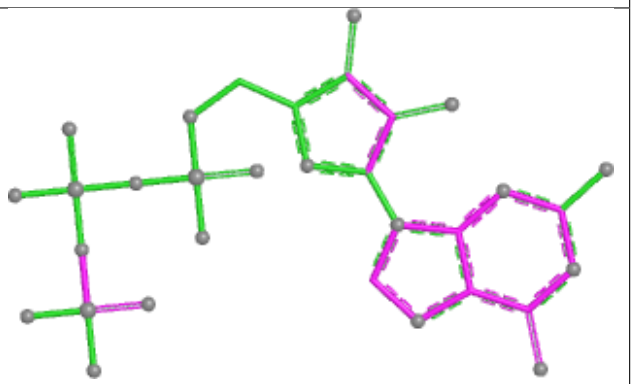
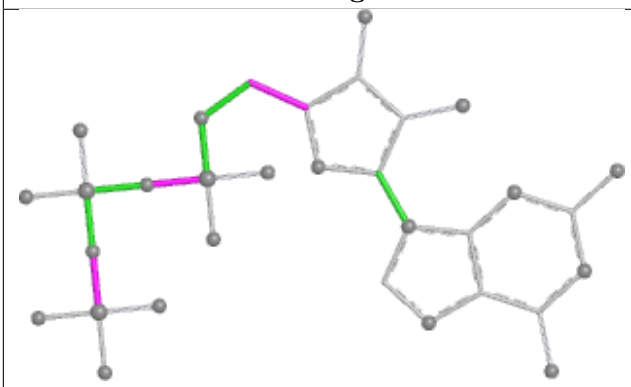


Bond angles



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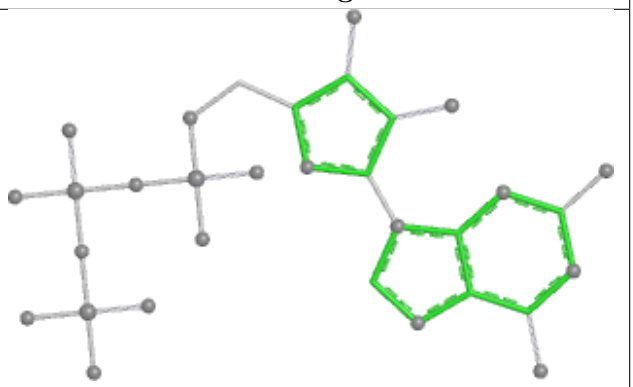
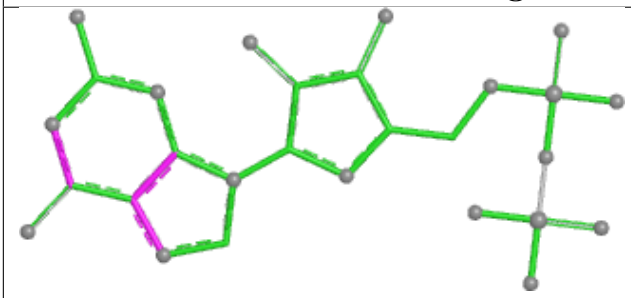


Rings

Ligand GDP RK 500



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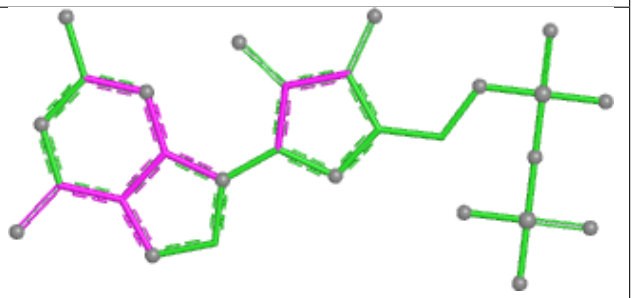
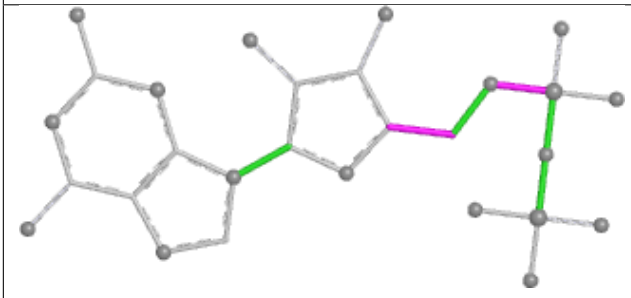
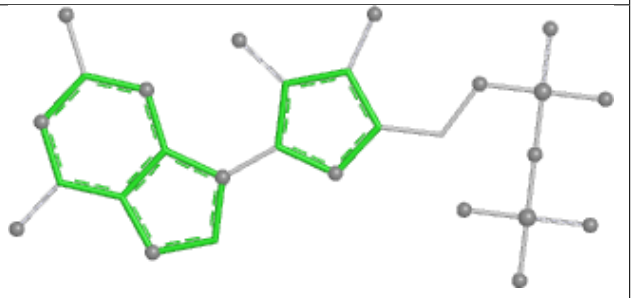


Bond angles

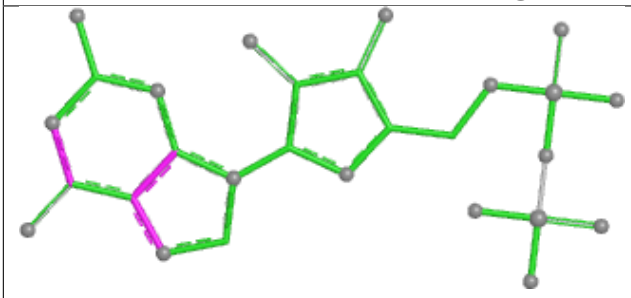


Torsions



Rings

Ligand GDP LE 500



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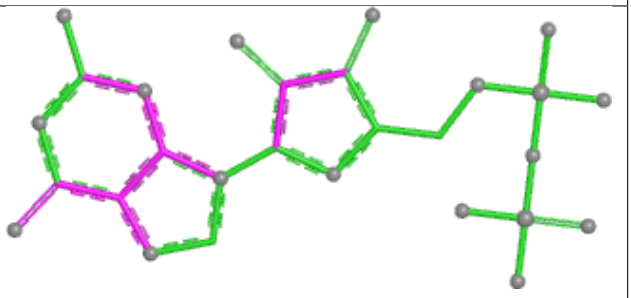

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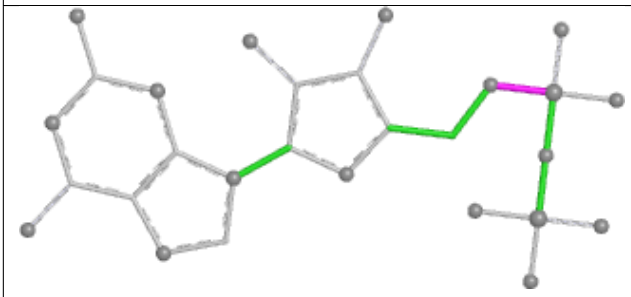

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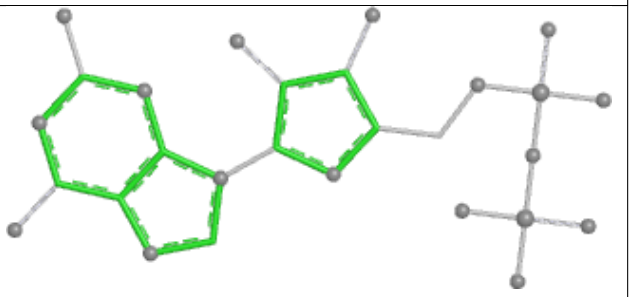
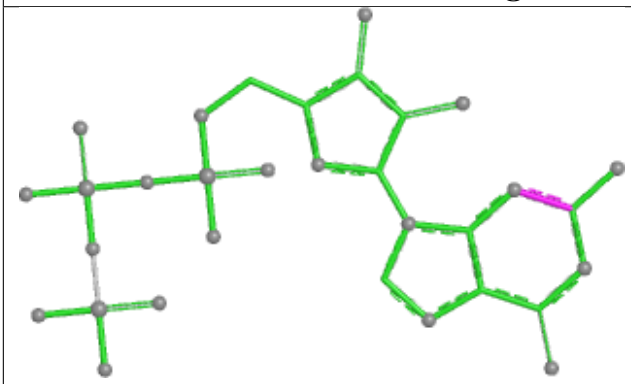


Rings

Ligand GTP WC 501



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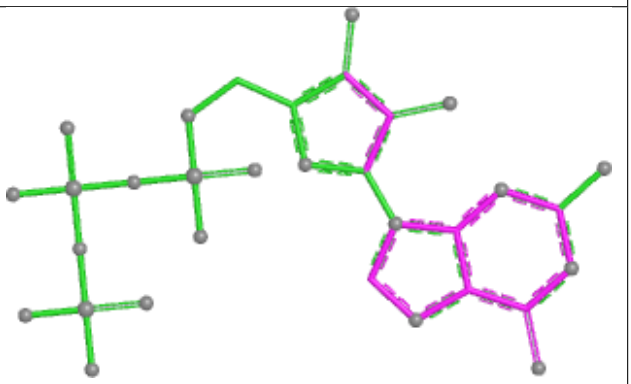

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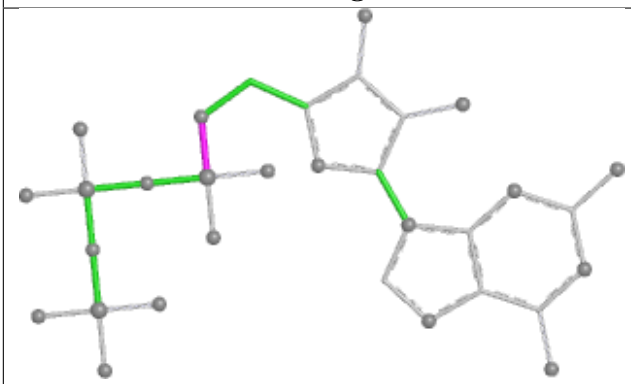

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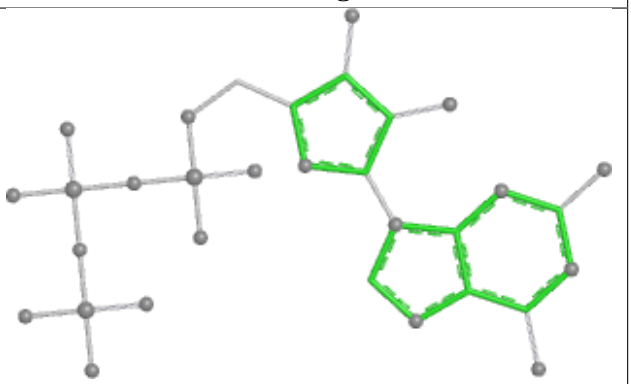
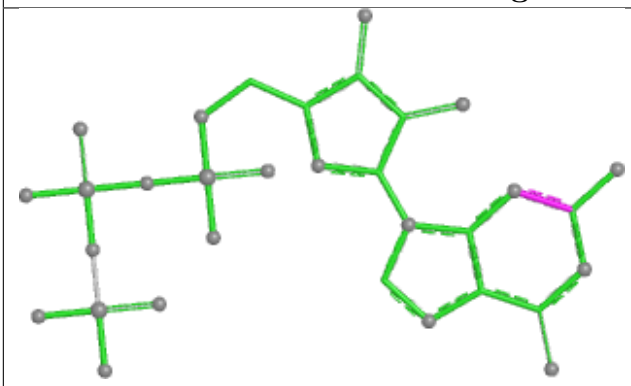


Rings

Ligand GTP EC 501



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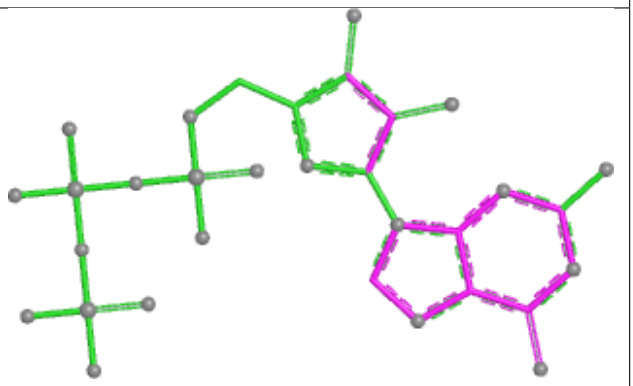

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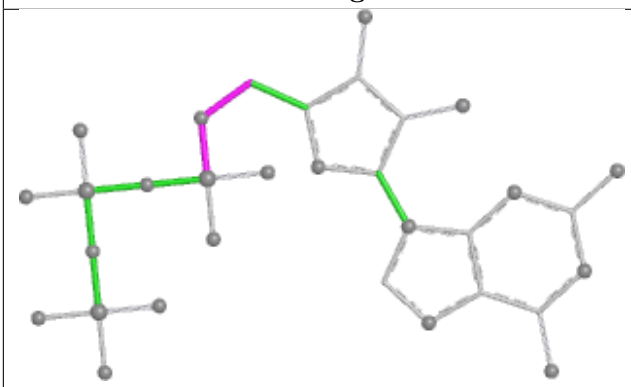

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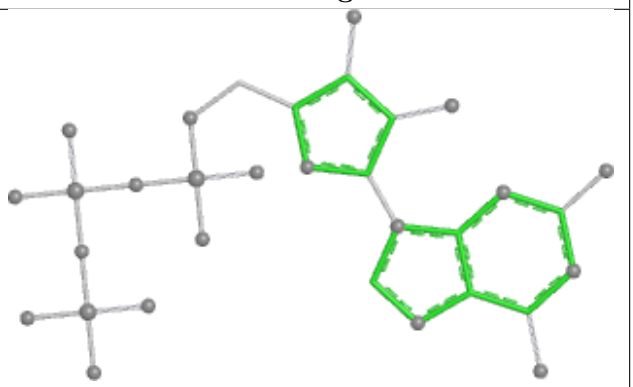
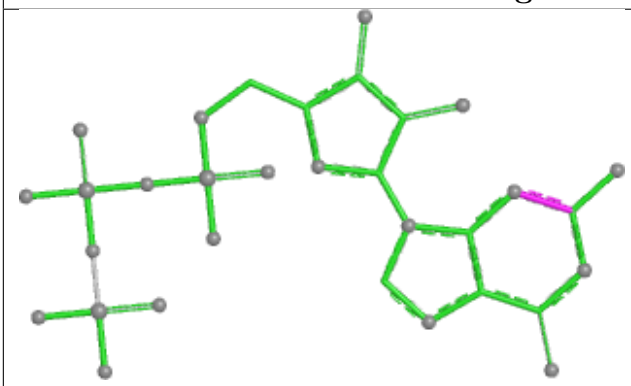


Rings

Ligand GTP NI 501



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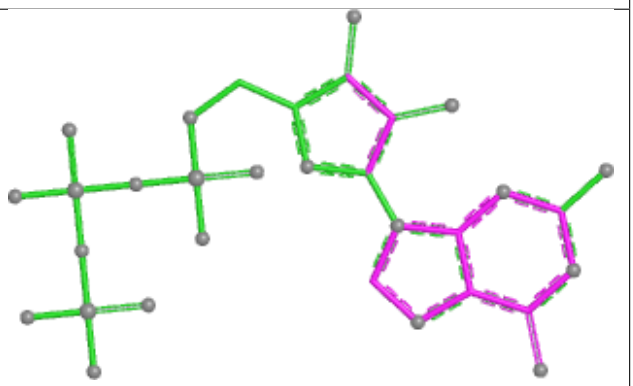

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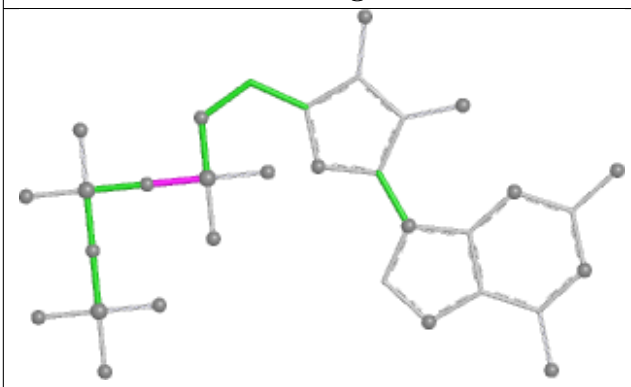

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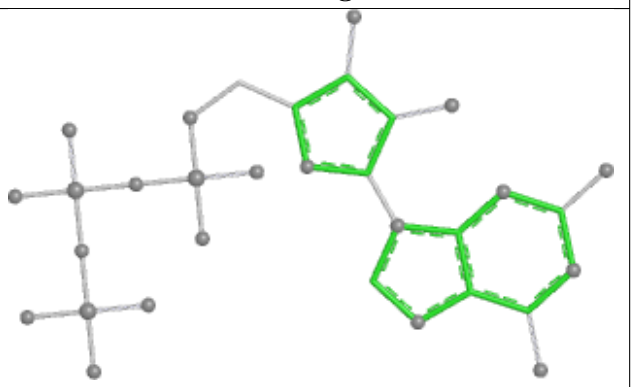

Rings

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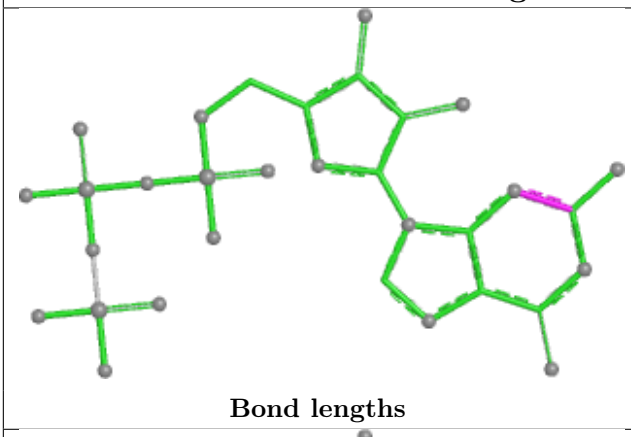

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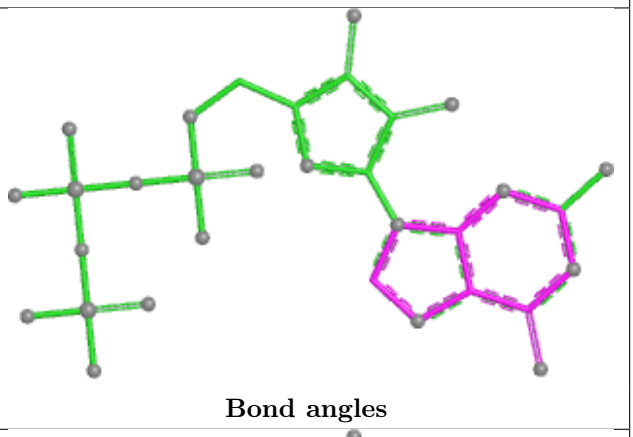

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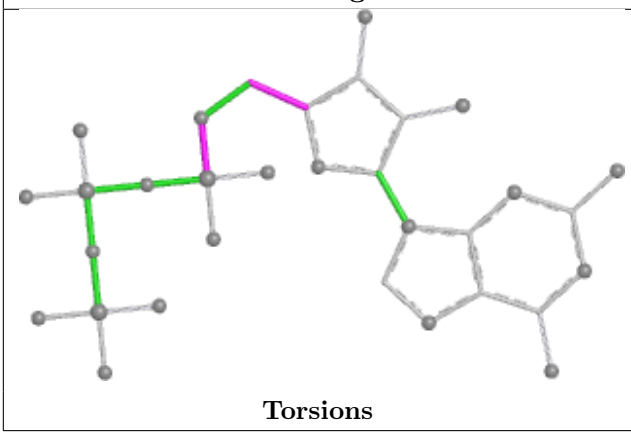

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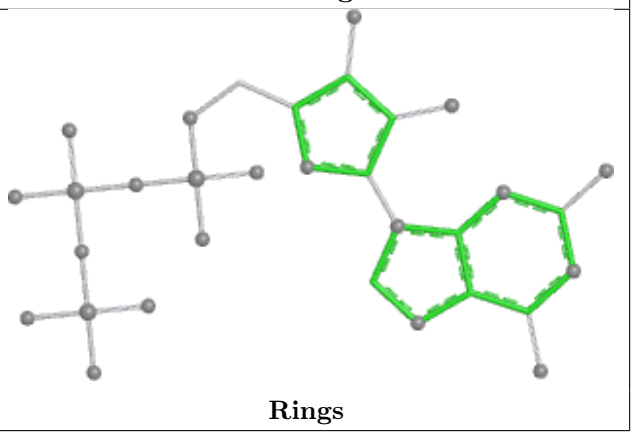
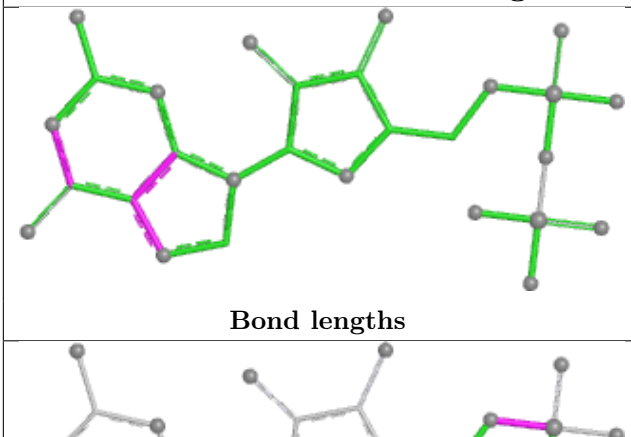


Rings

Ligand GDP NF 500



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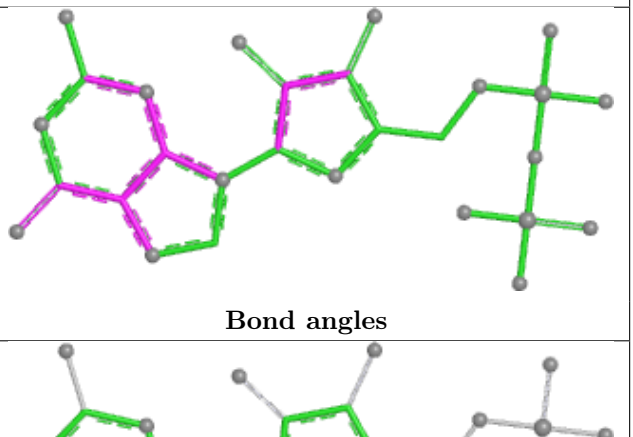

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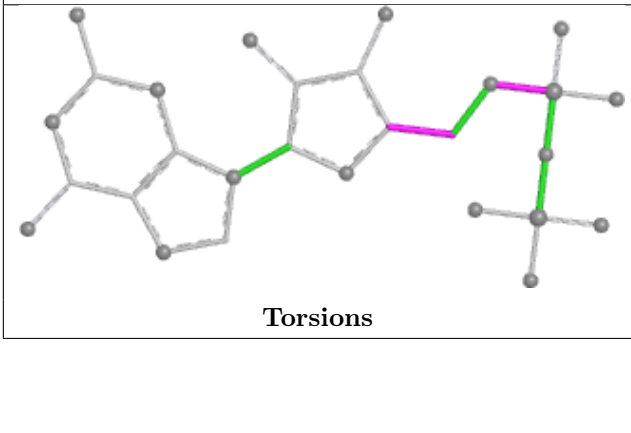

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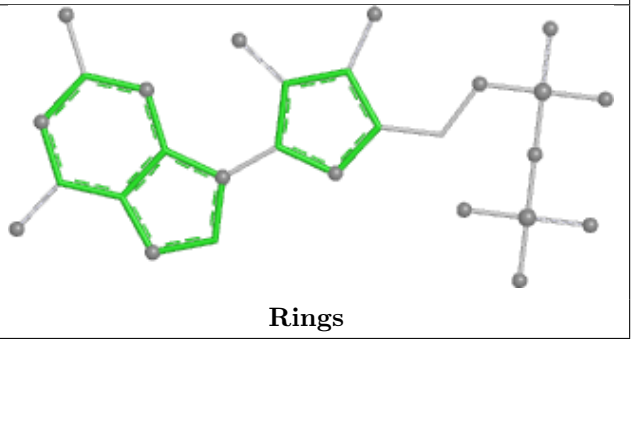
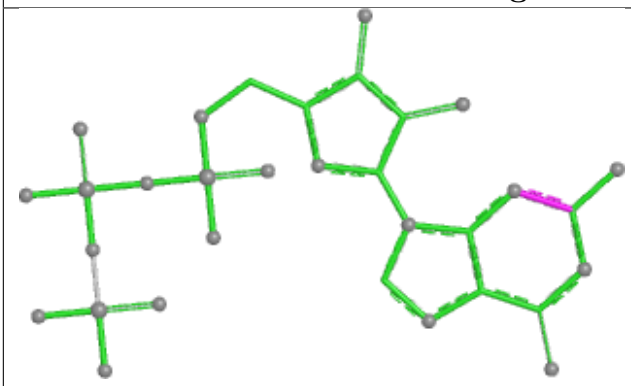


Rings

Ligand GTP AC 501



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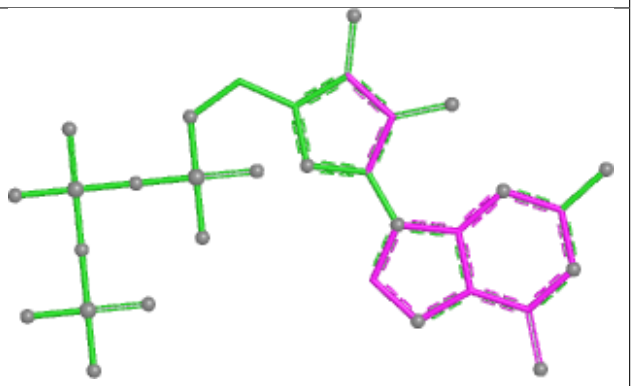

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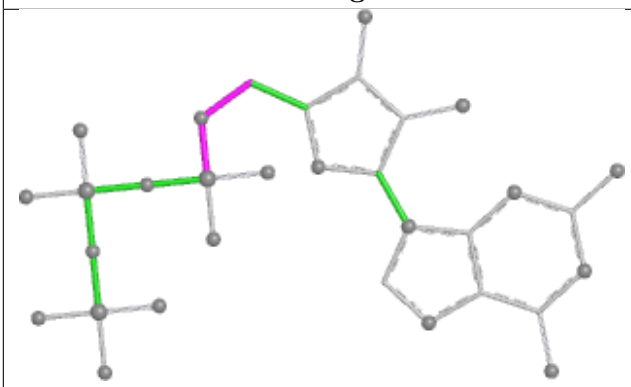

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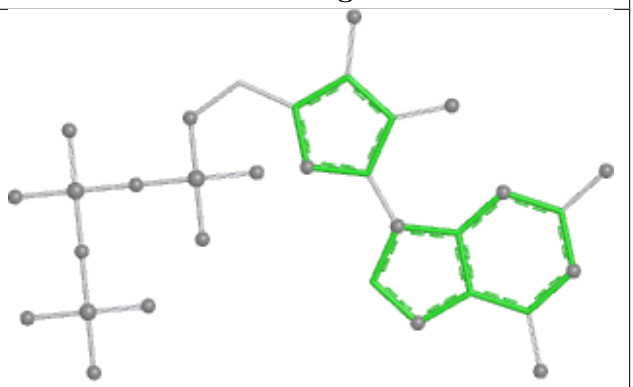
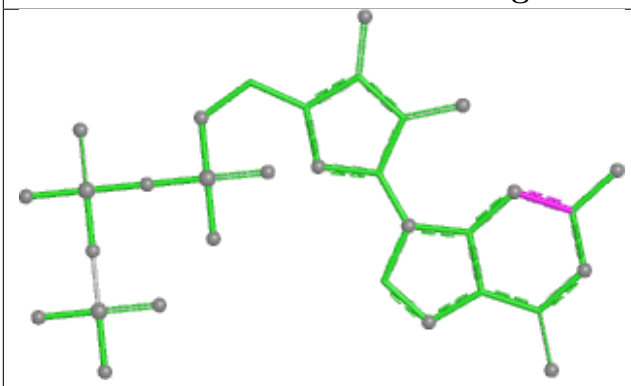


Rings

Ligand GTP PE 501



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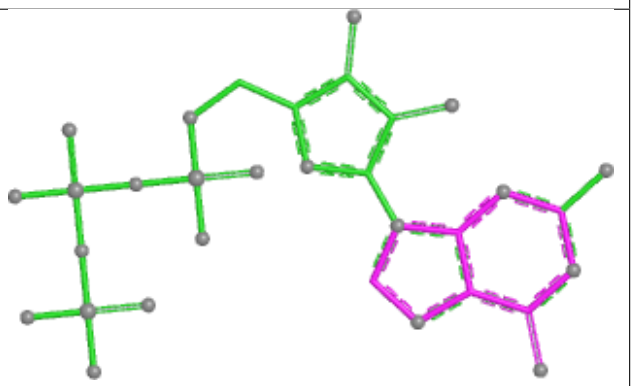

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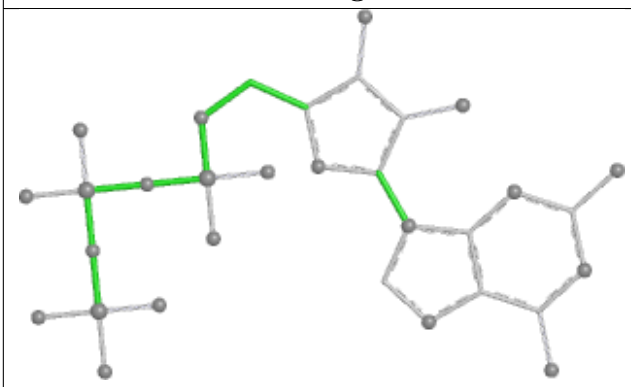

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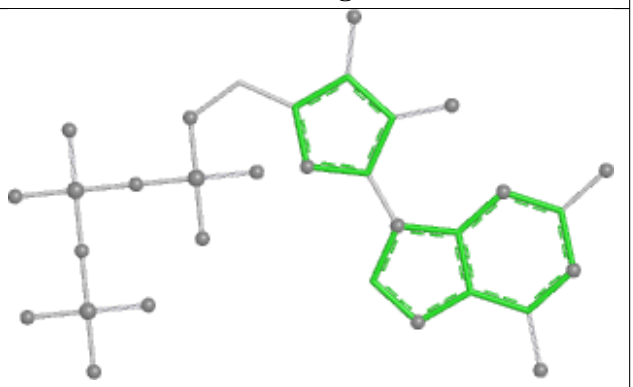
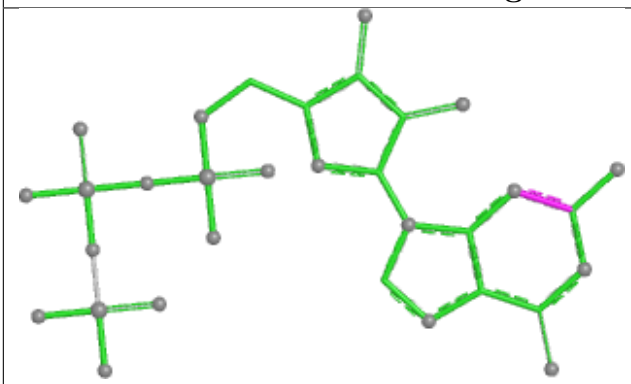


Rings

Ligand GTP MA 501



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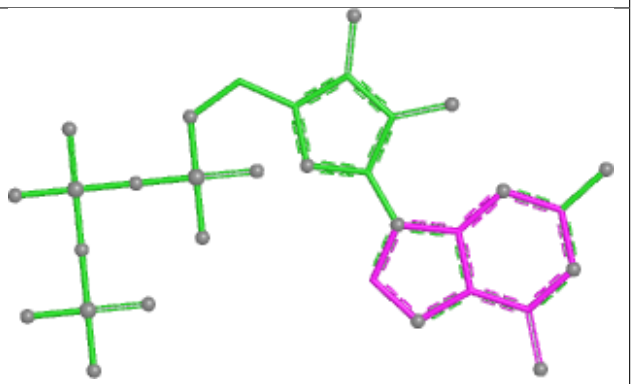

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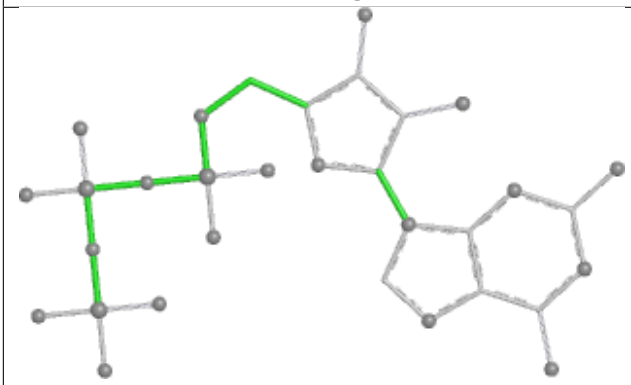

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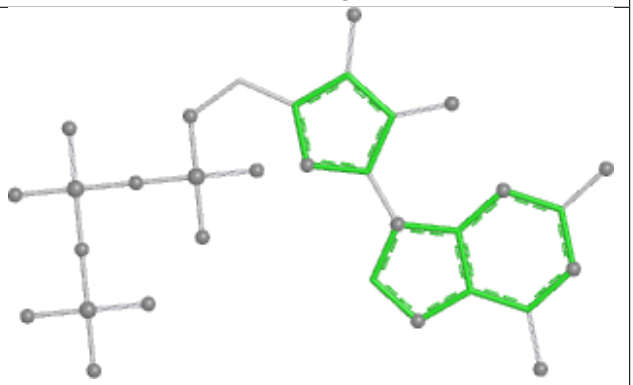
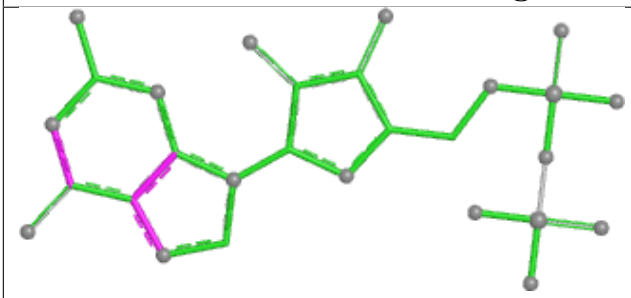


Rings

Ligand GDP FL 500



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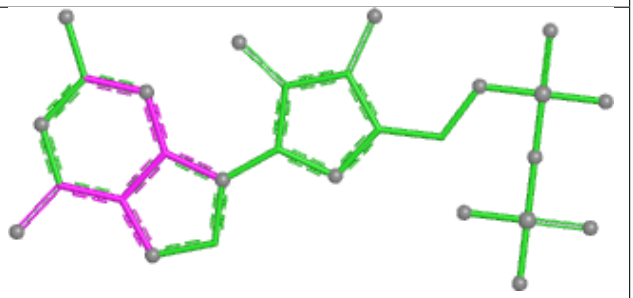

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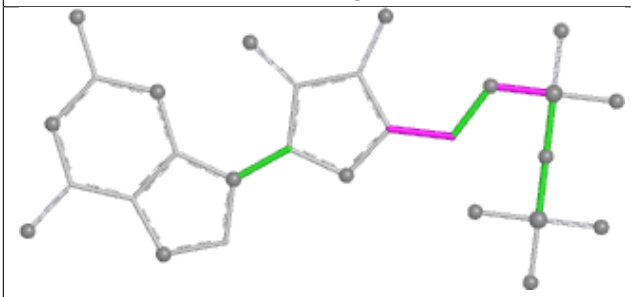

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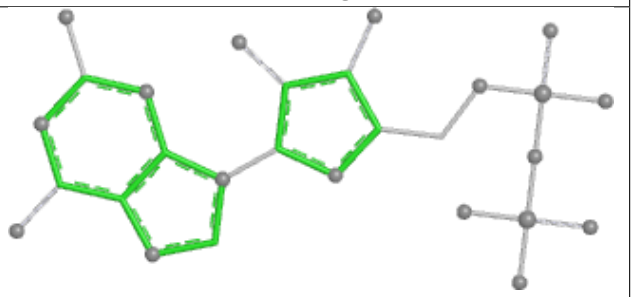

Rings

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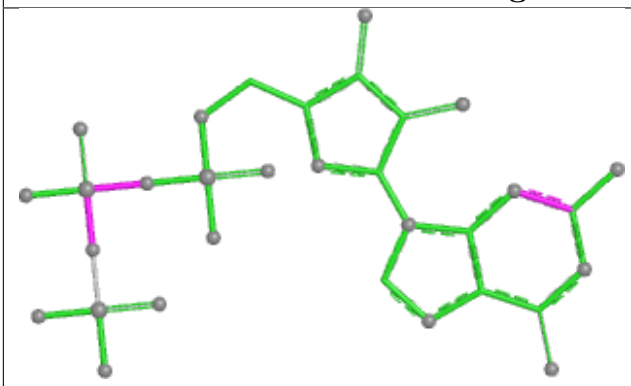

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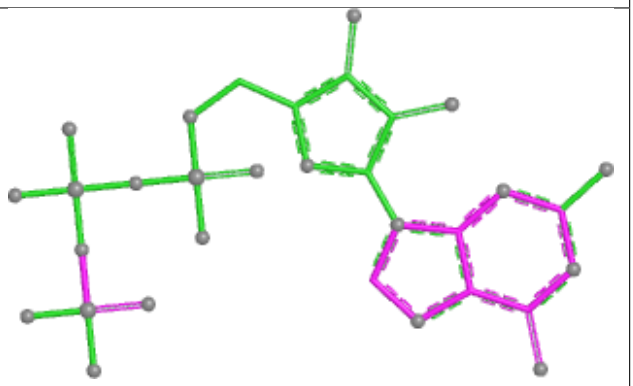
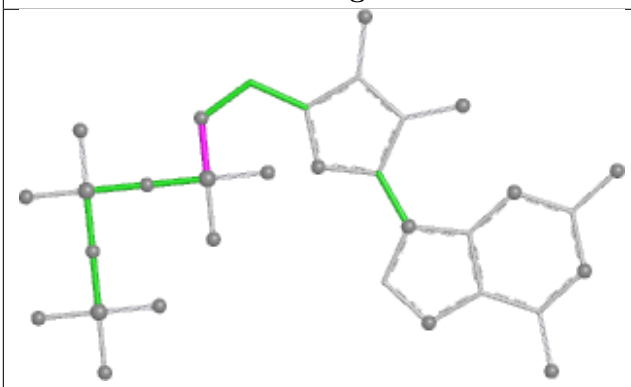


Bond angles



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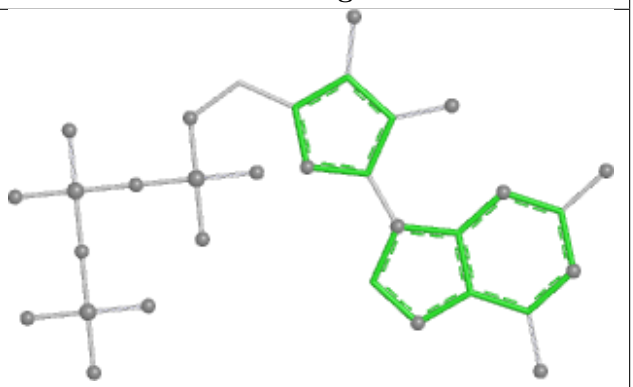
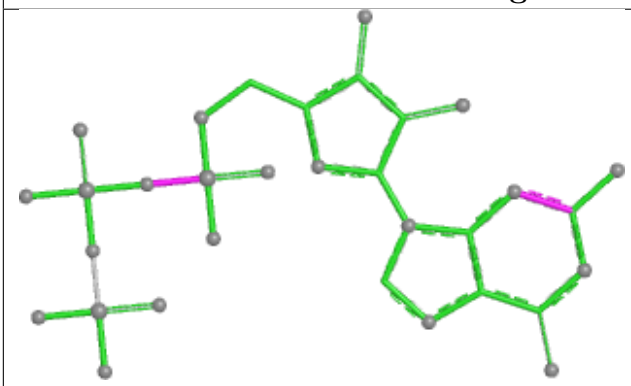


Rings

Ligand GTP RB 501



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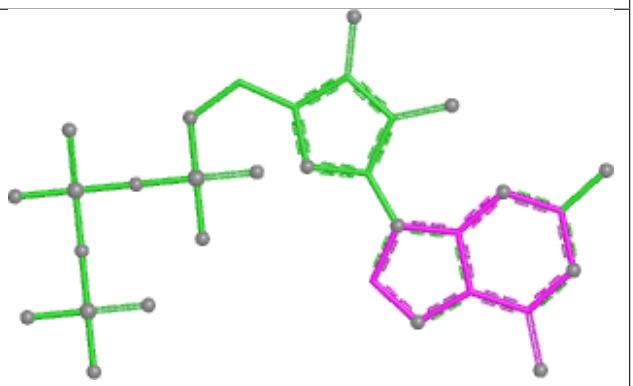
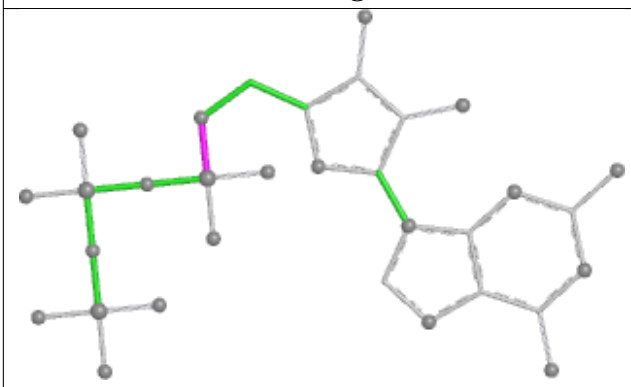


Bond angles



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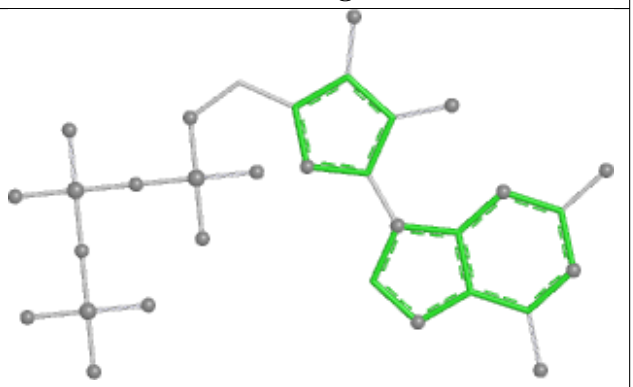

Rings

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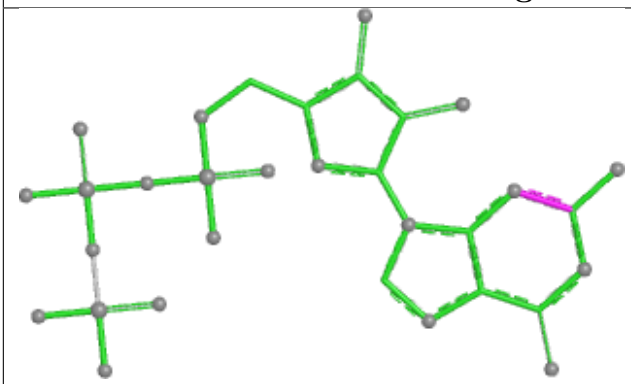

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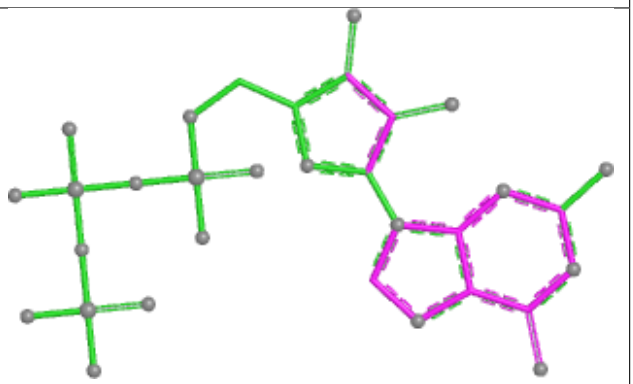
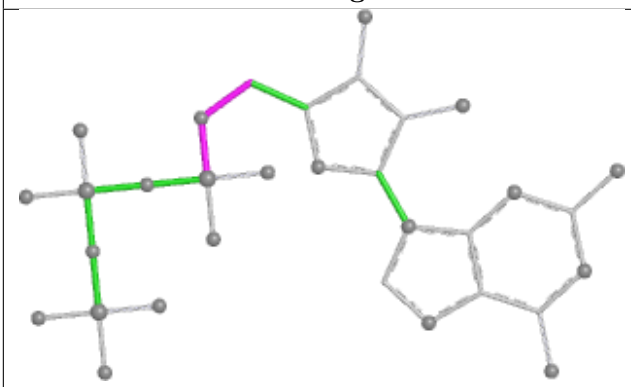
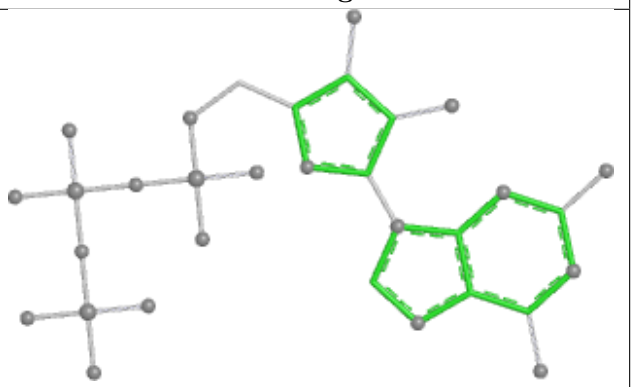


Bond angles

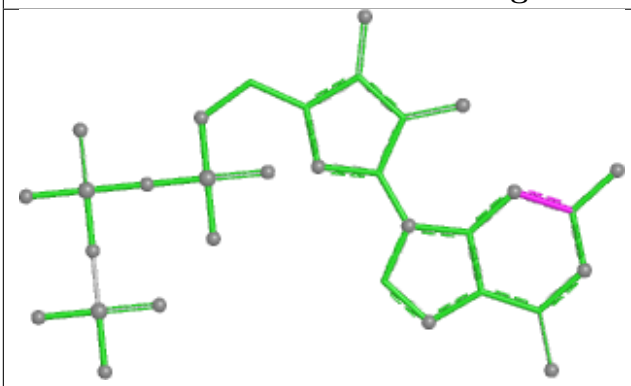


Torsions



Rings

Ligand GTP FG 501



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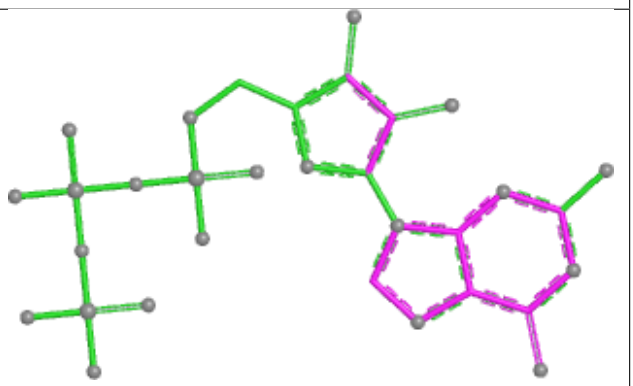
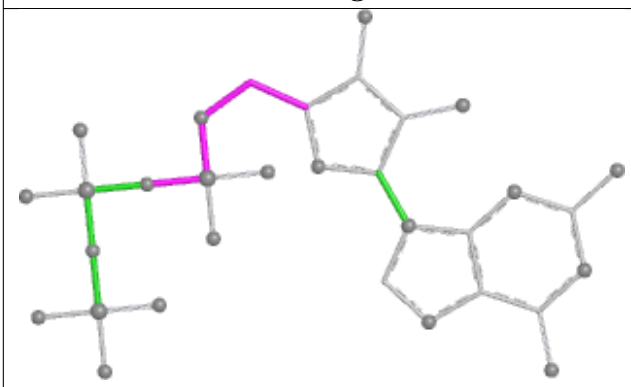


Bond angles



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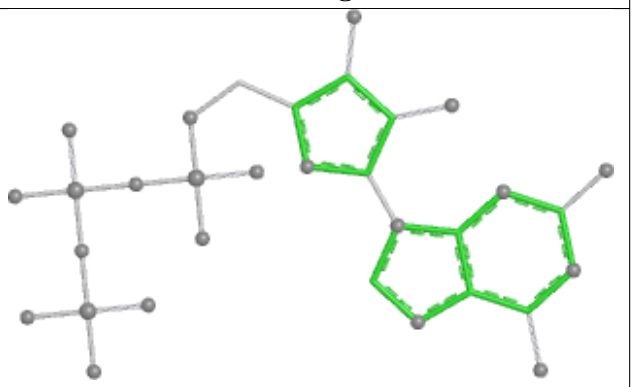
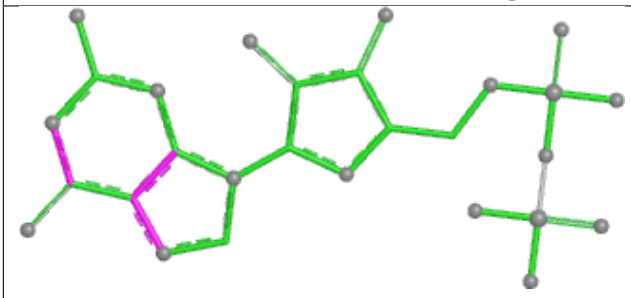


Rings

Ligand GDP MN 500



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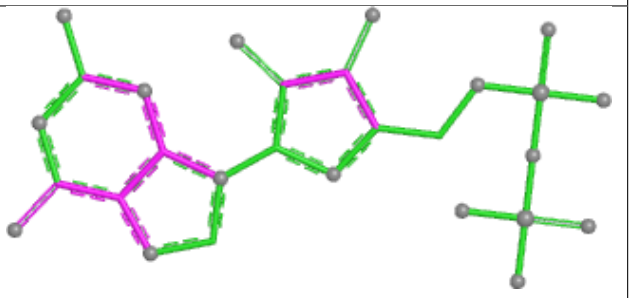

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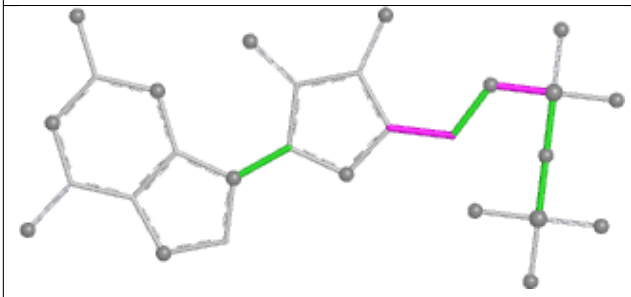

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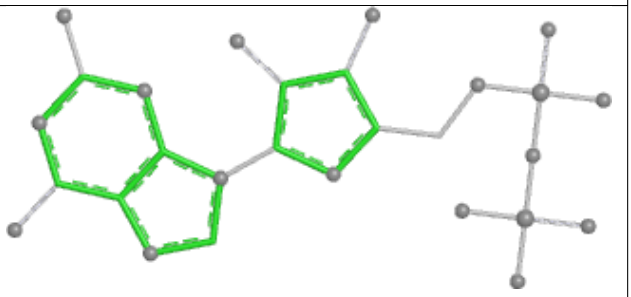
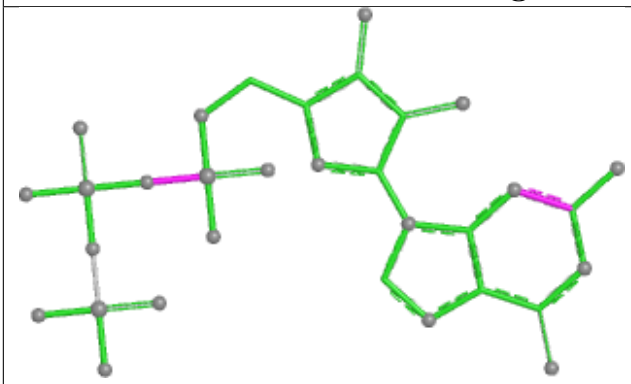


Rings

Ligand GTP BC 501



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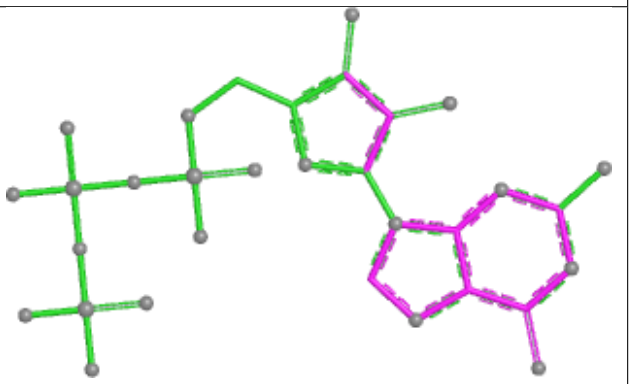

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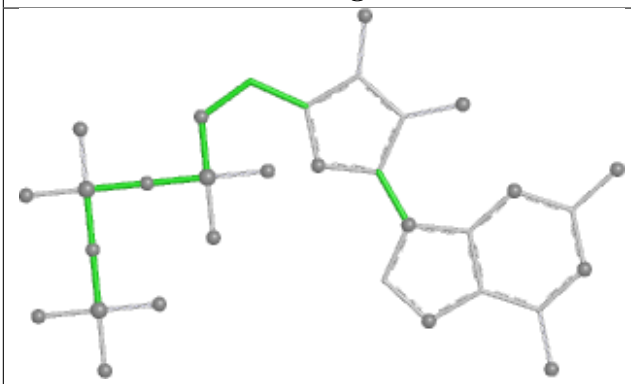

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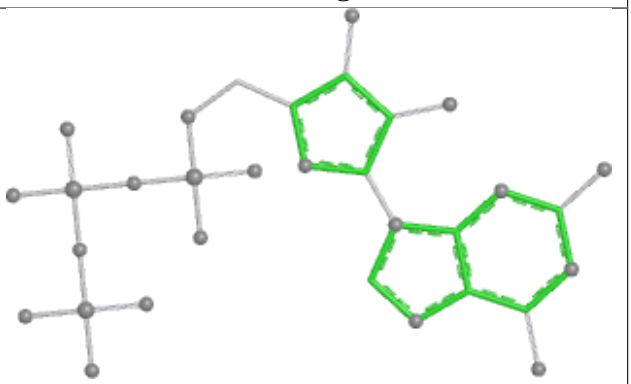
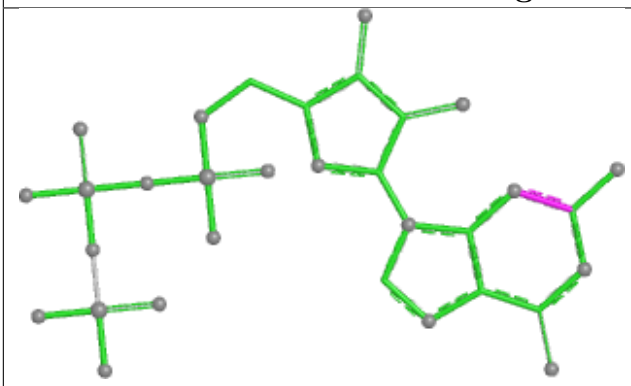


Rings

Ligand GTP AI 501



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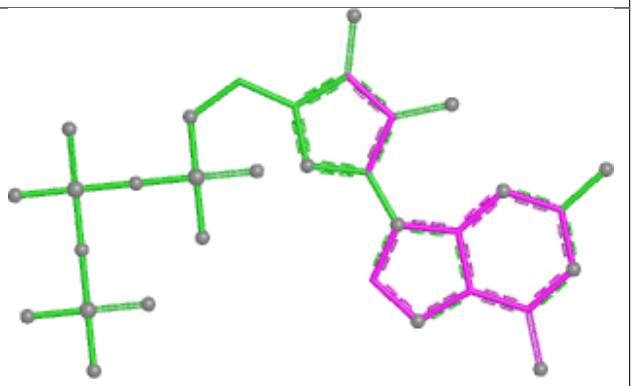

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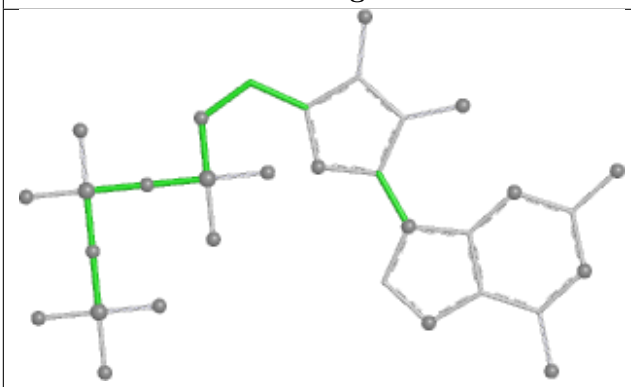

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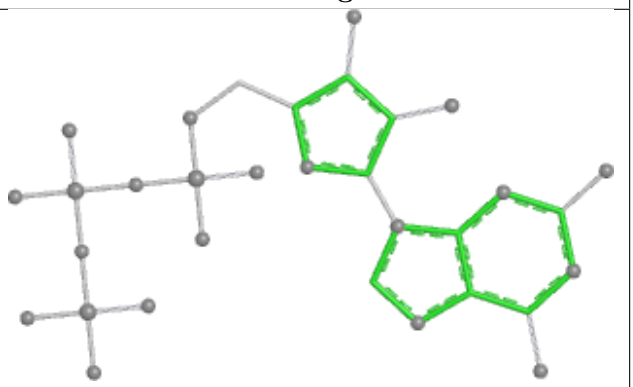
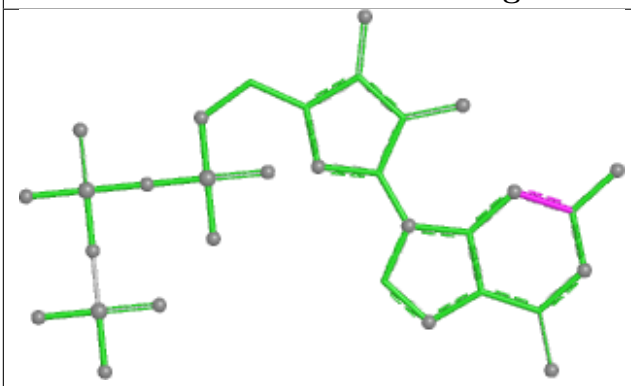


Rings

Ligand GTP WK 501



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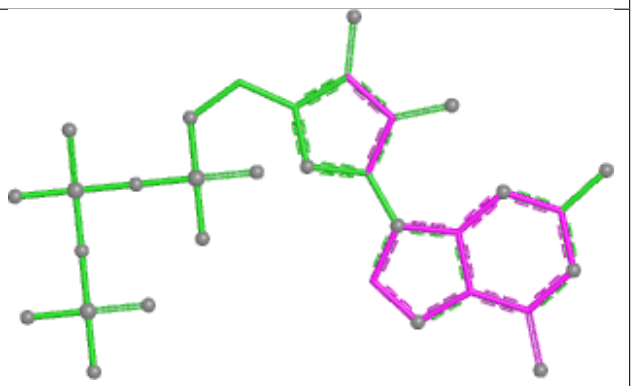

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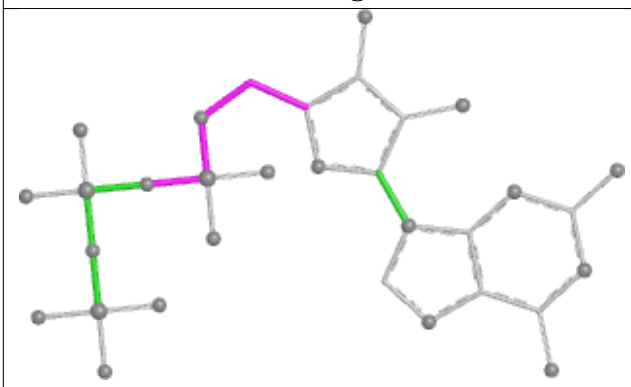

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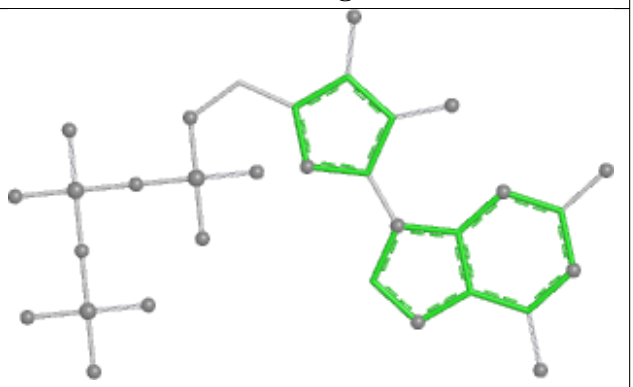

Rings

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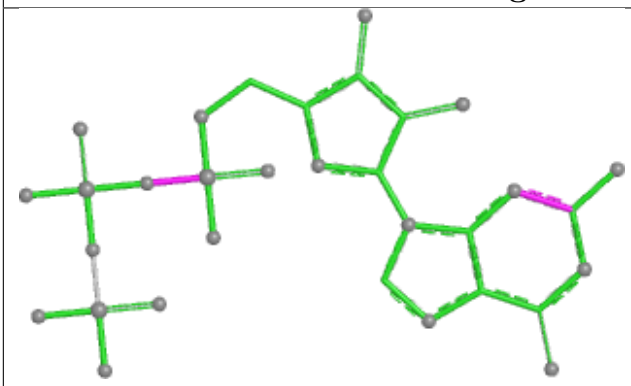

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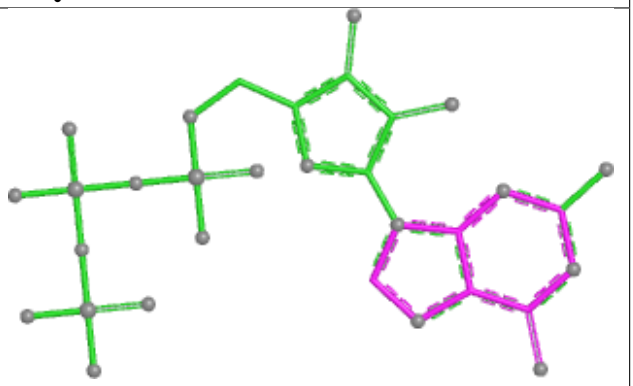

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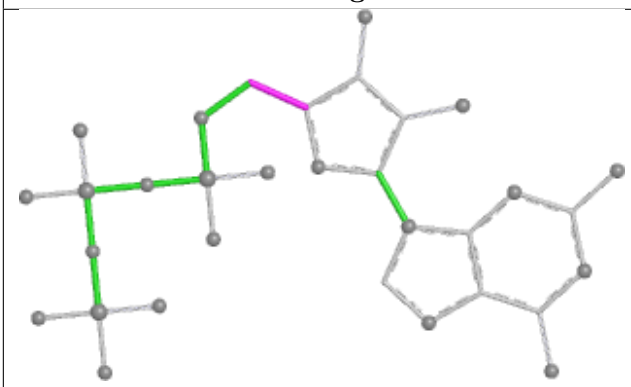

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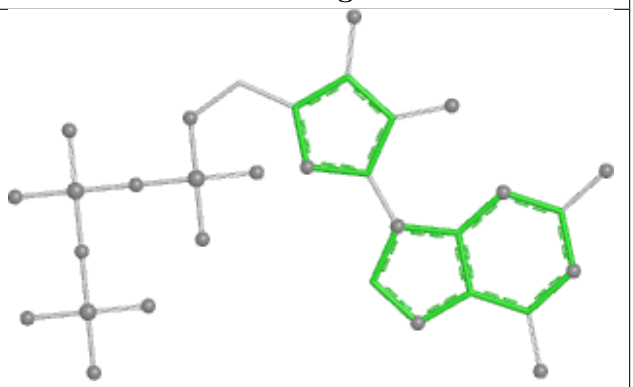
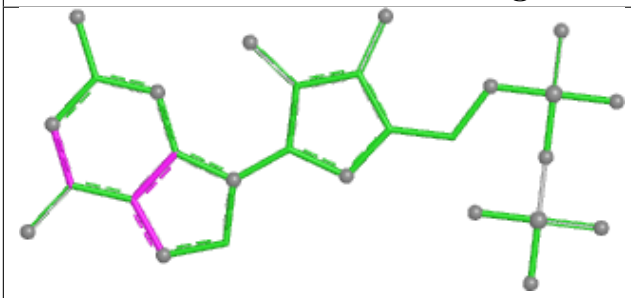


Rings

Ligand GDP EF 500



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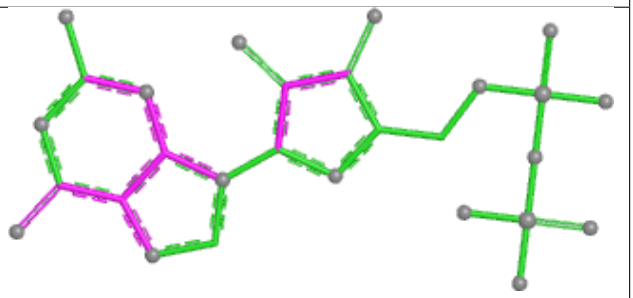

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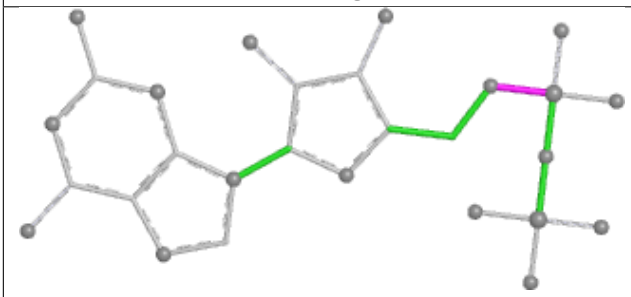

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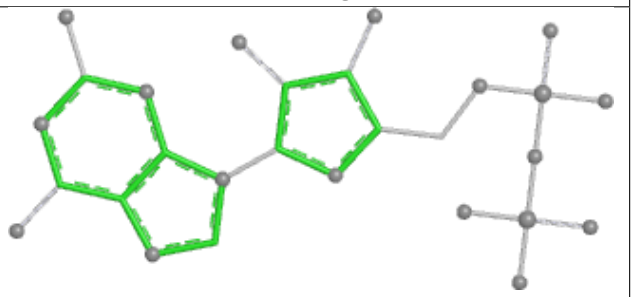

Rings

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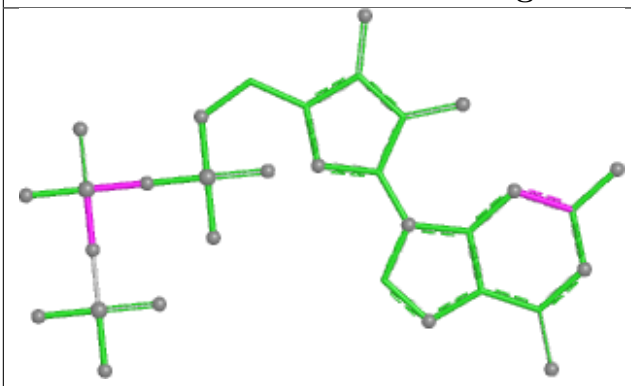

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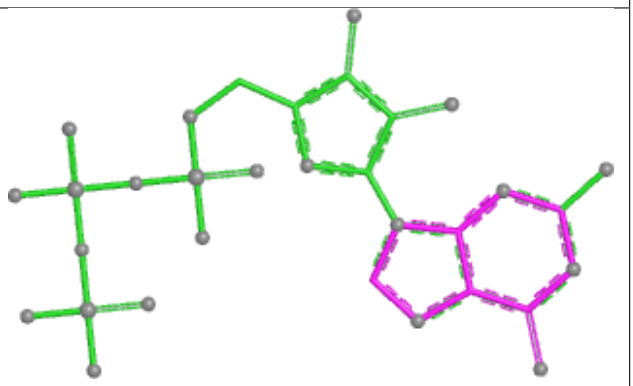

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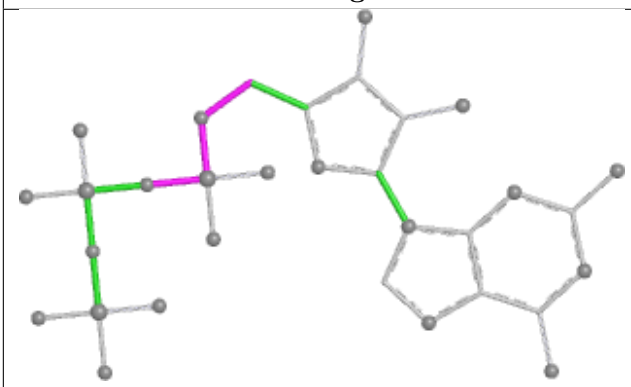

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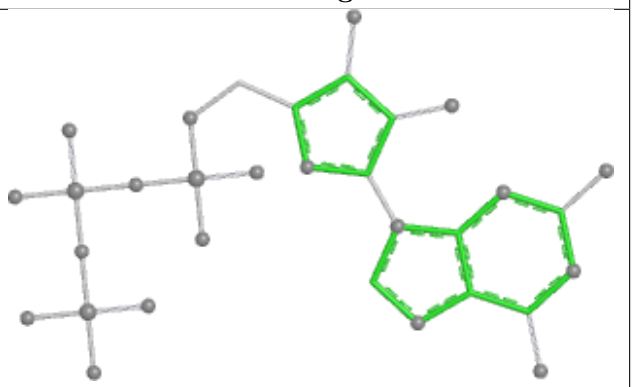

Rings

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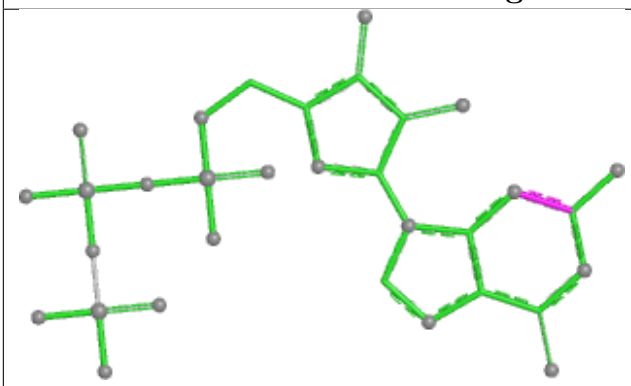

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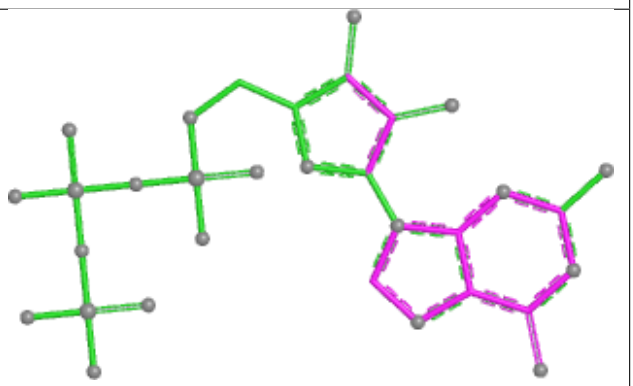

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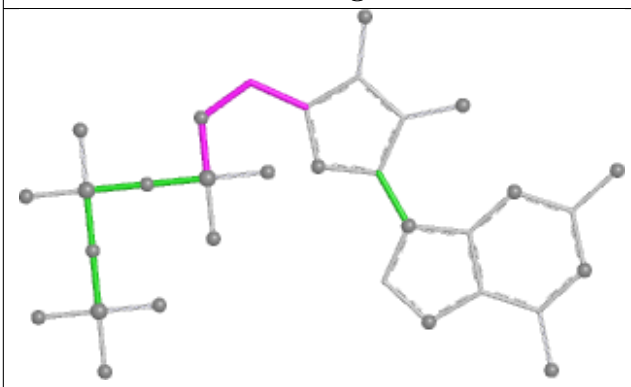

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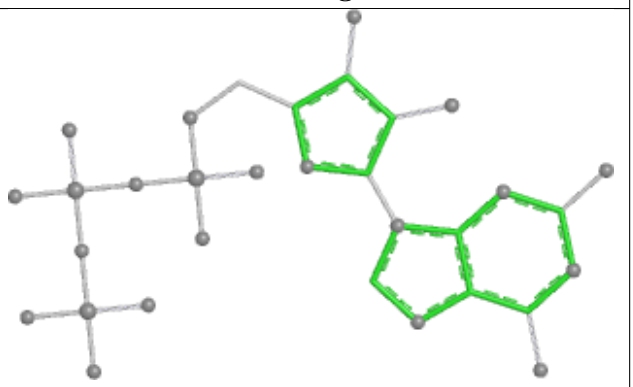
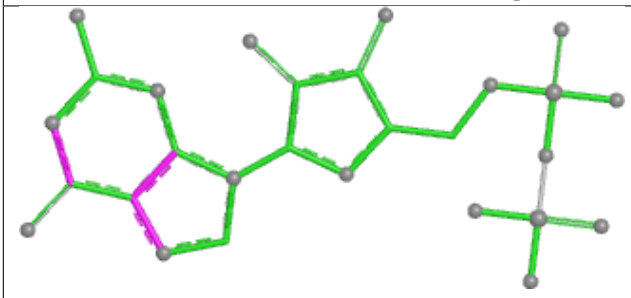


Rings

Ligand GDP UB 500



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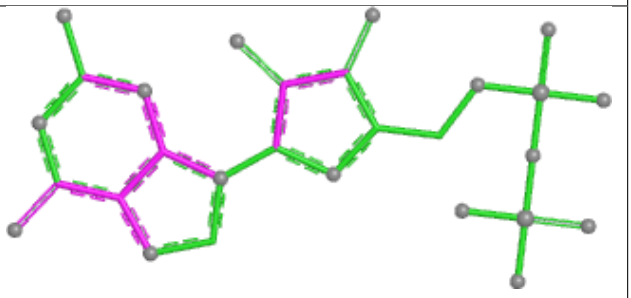

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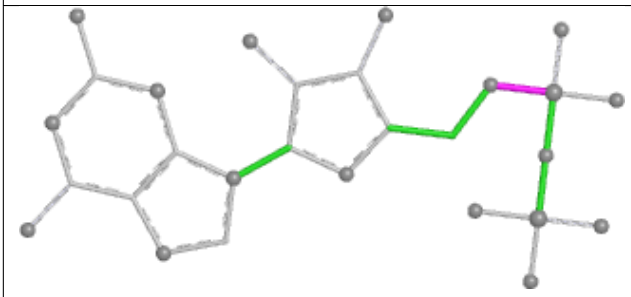

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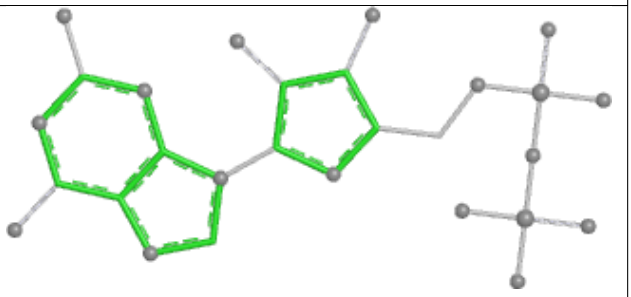
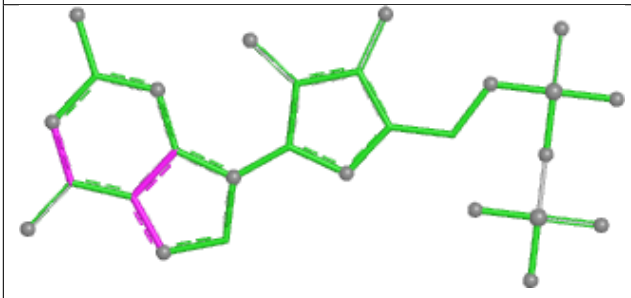


Rings

Ligand GDP I 500



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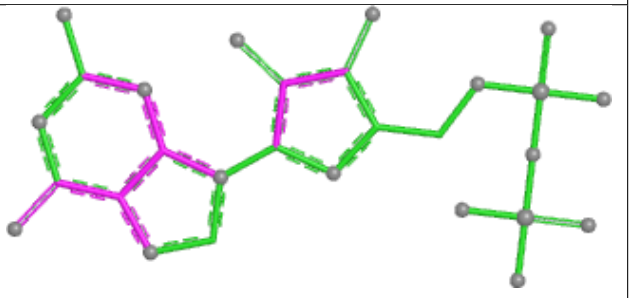

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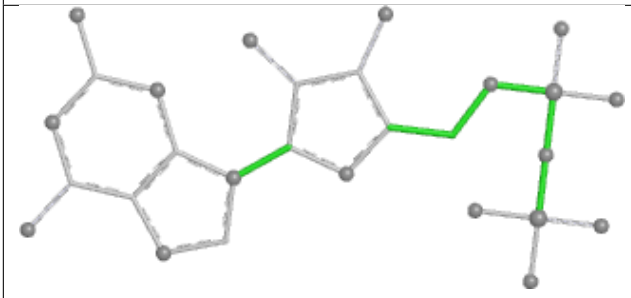

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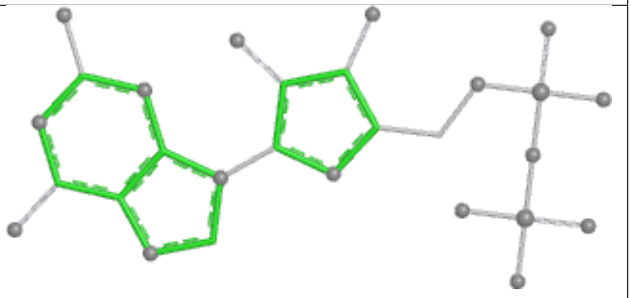
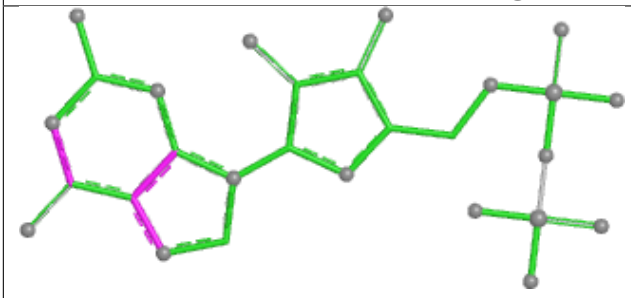
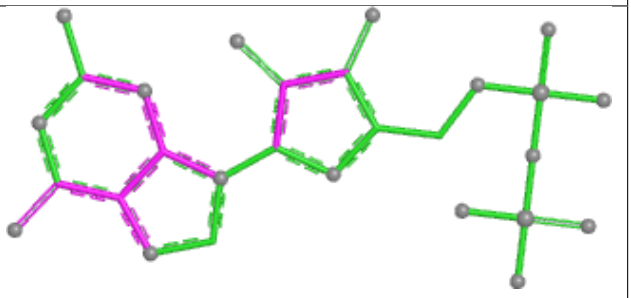
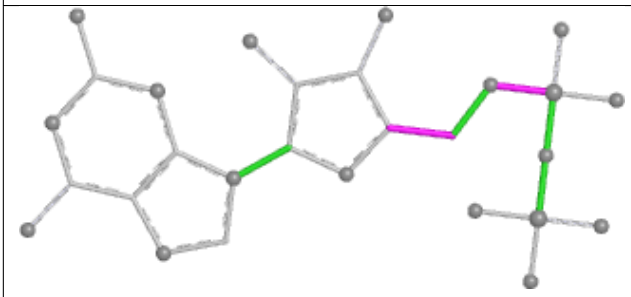
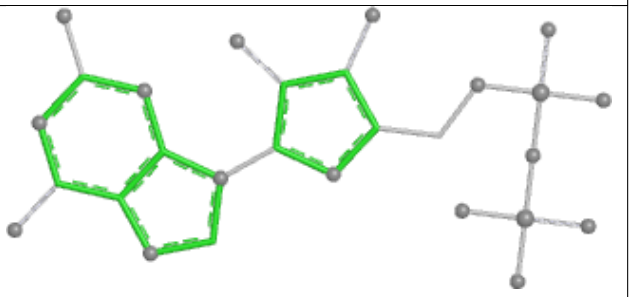


Rings

Ligand GDP ED 500	
 Bond lengths	 Bond angles
 Torsions	 Rings

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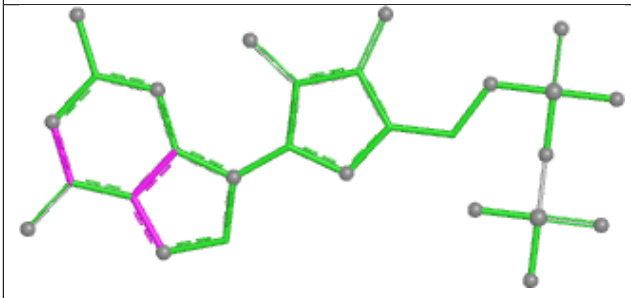
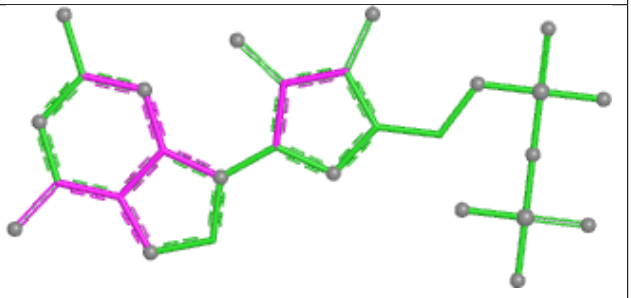
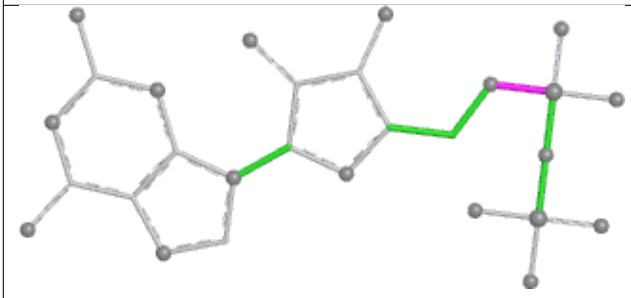
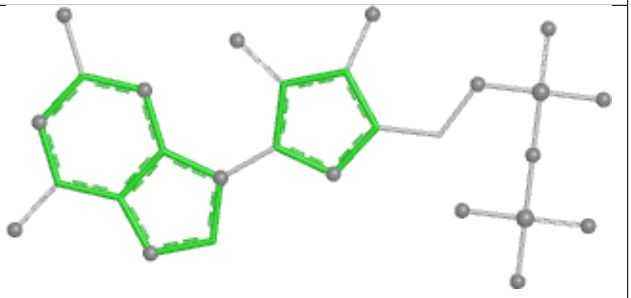
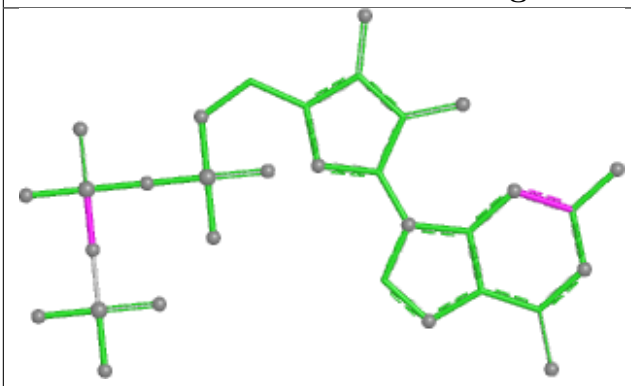
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GTP VC 501



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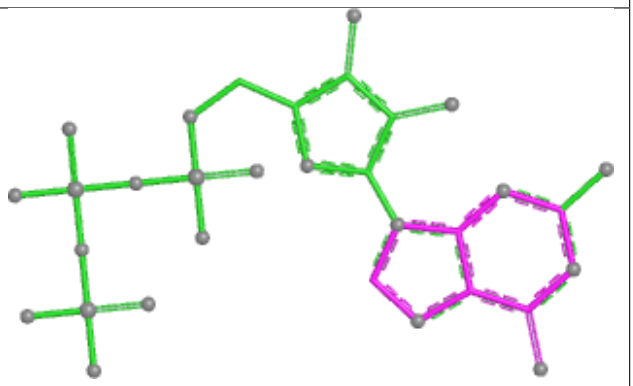
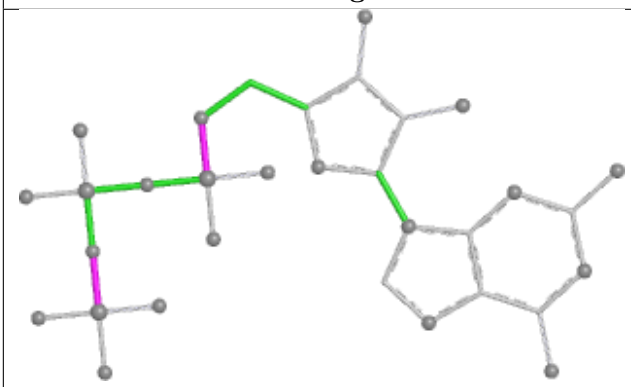
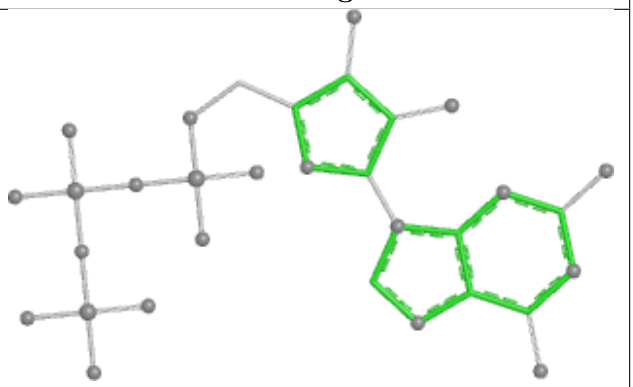


Bond angles

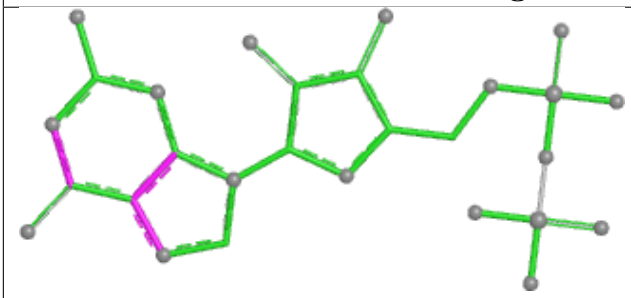


Torsions



Rings

Ligand GDP DE 500



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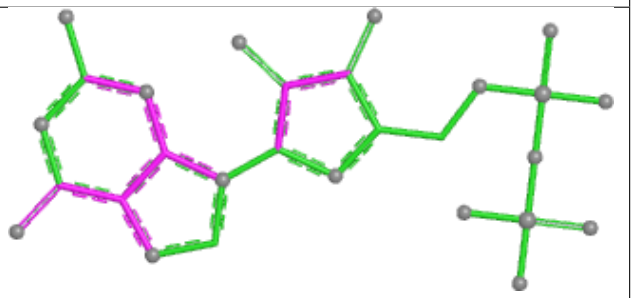

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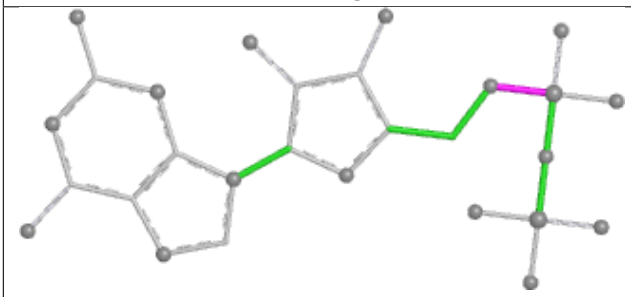

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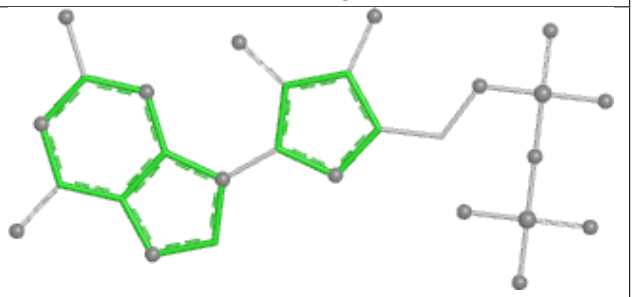
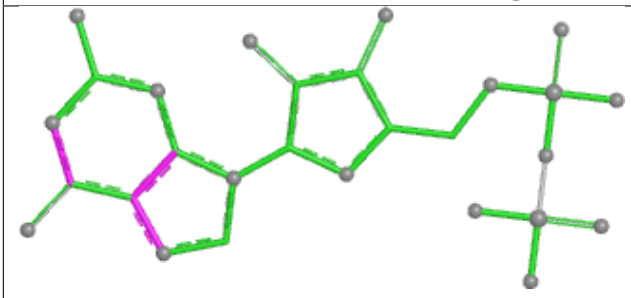


Rings

Ligand GDP CK 500



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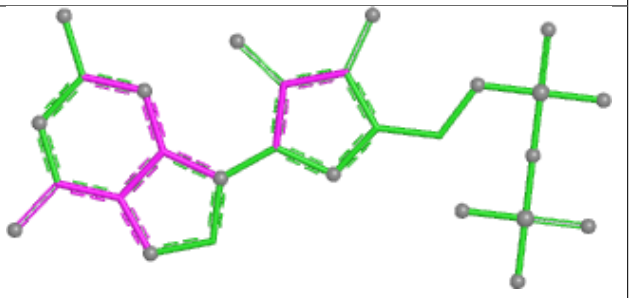

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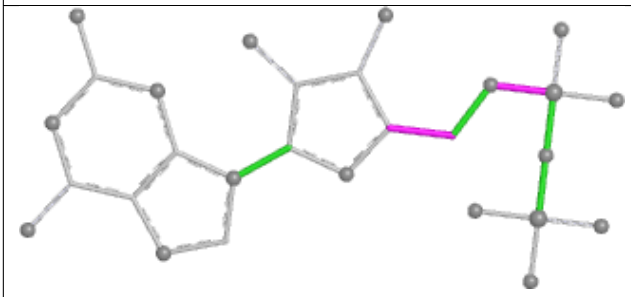

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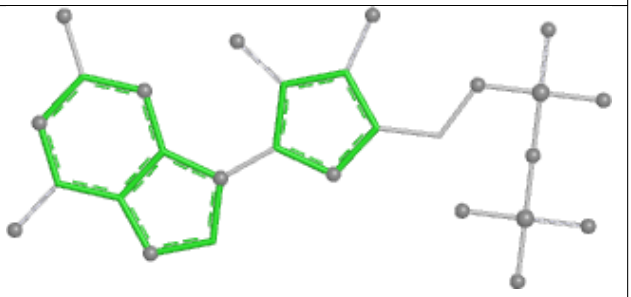
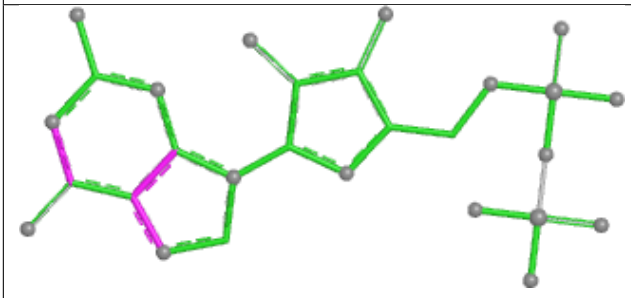


Rings

Ligand GDP IJ 500



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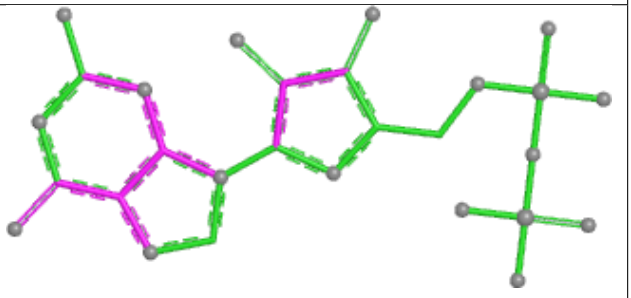

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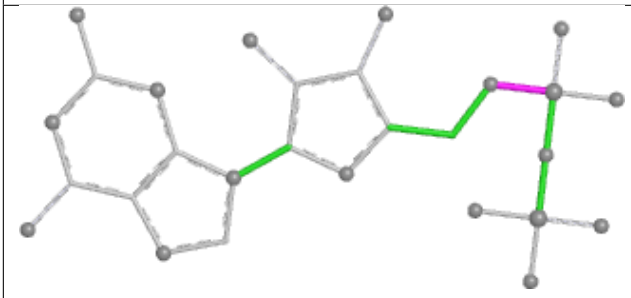

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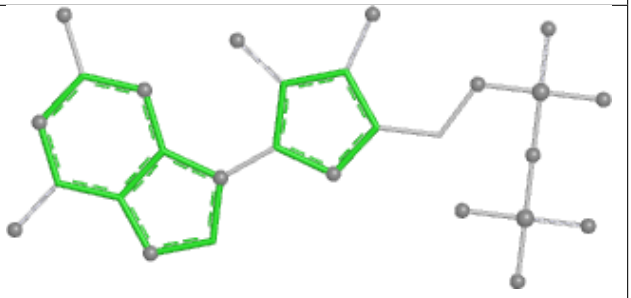
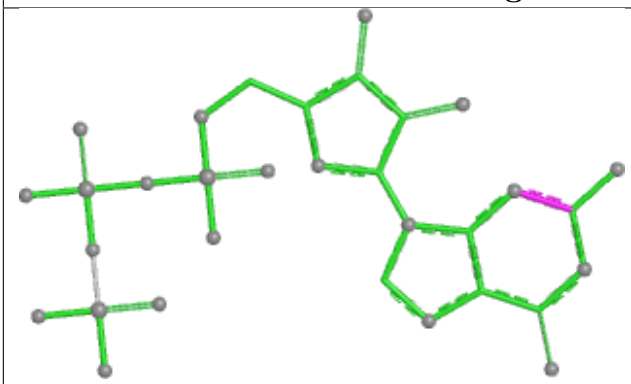


Rings

Ligand GTP VM 501



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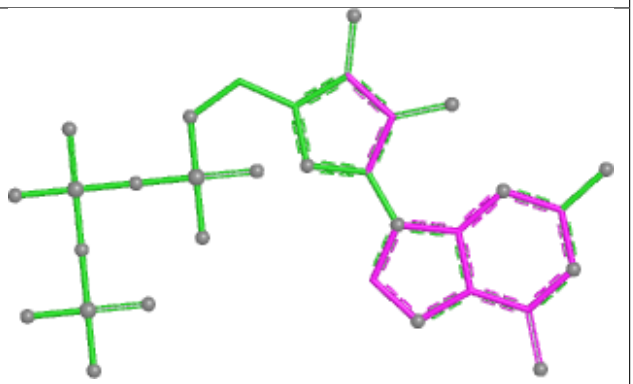

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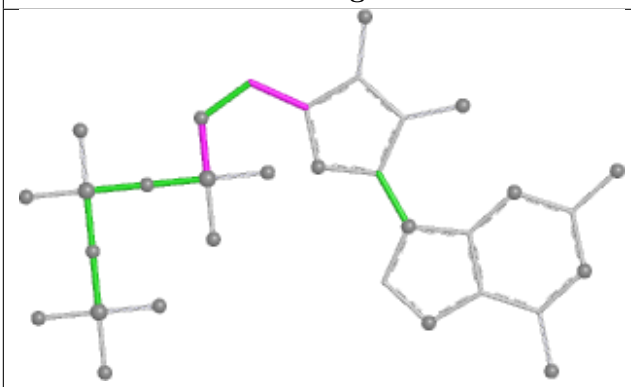

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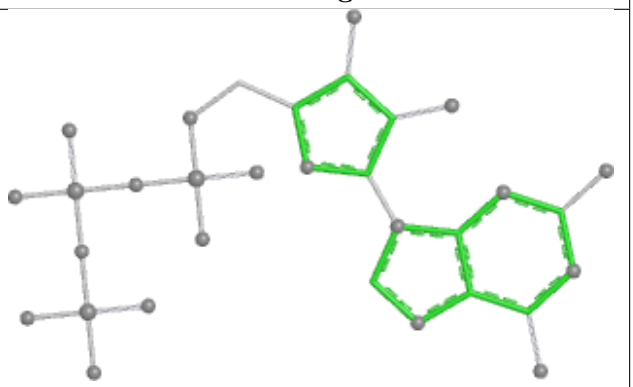
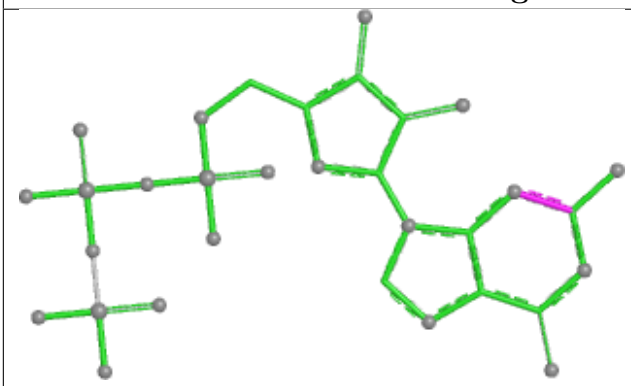


Rings

Ligand GTP BE 501



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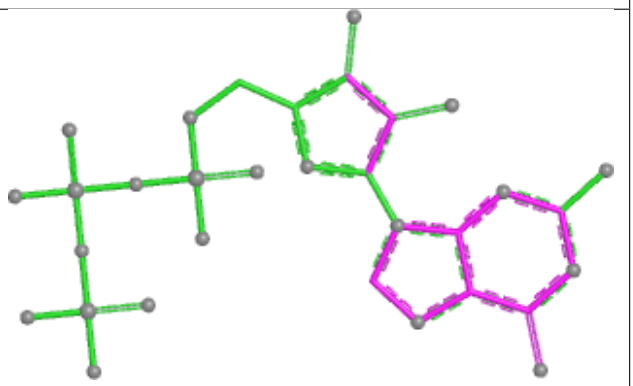

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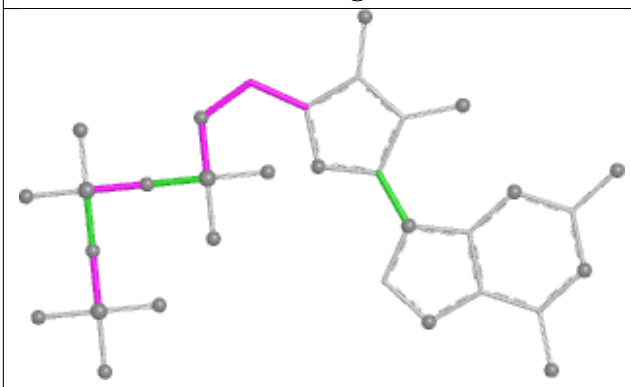

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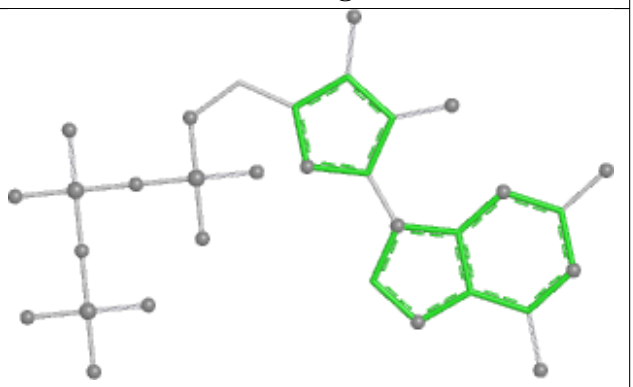
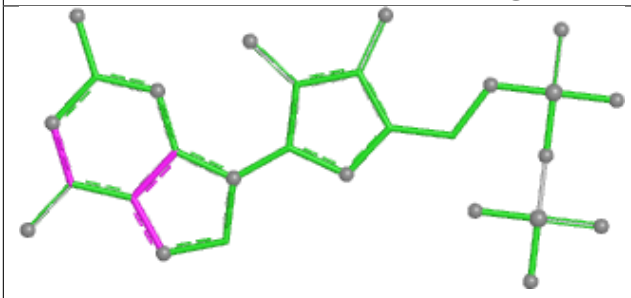


Rings

Ligand GDP CG 500



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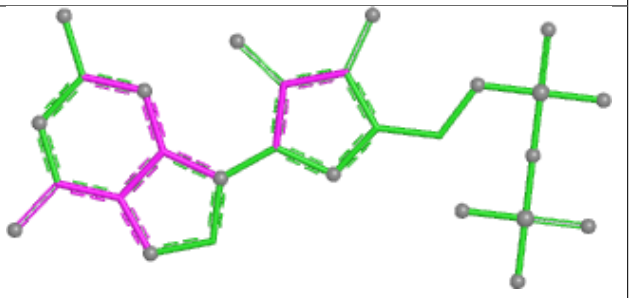

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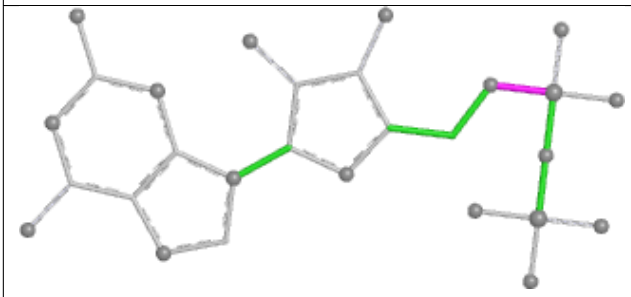

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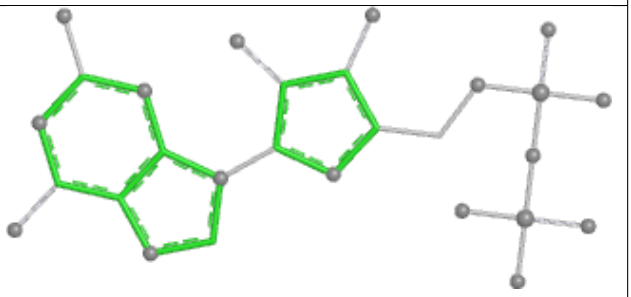
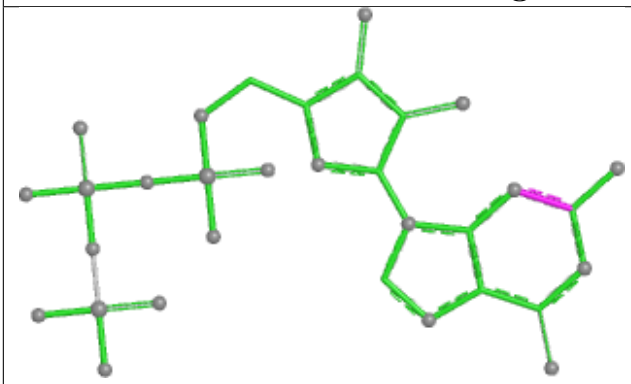


Rings

Ligand GTP LD 501



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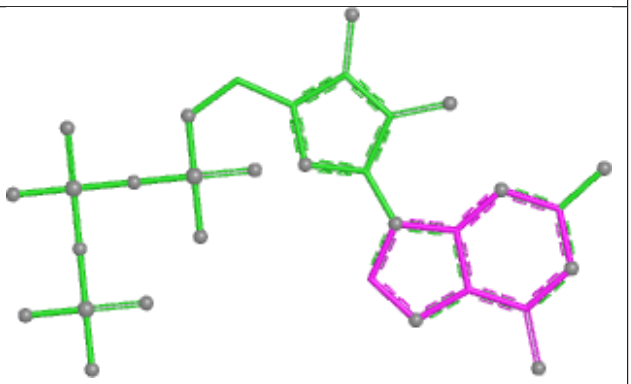

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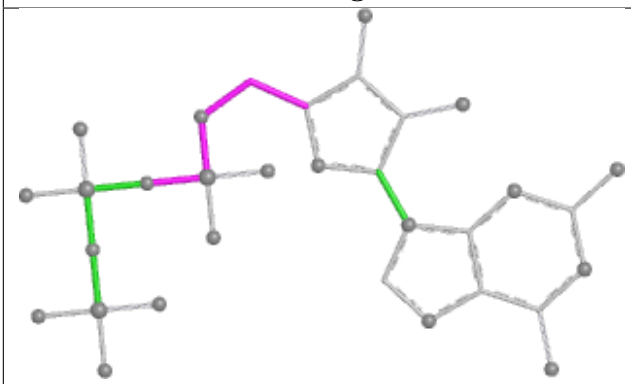

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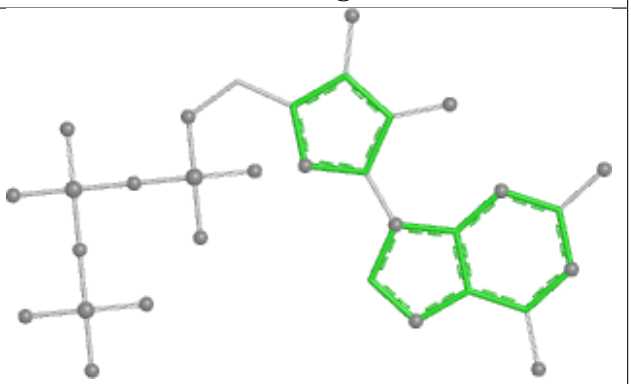
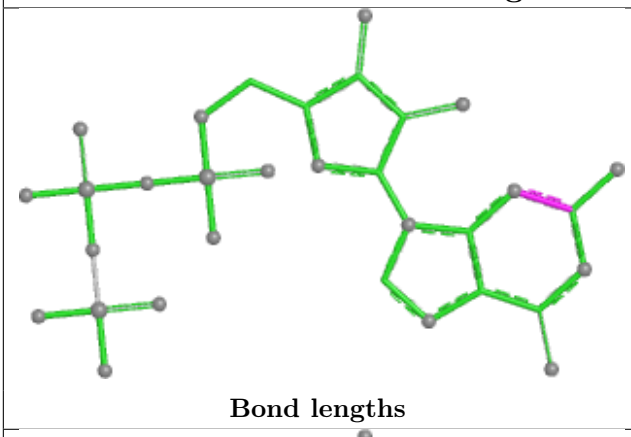


Rings

Ligand GTP WE 501



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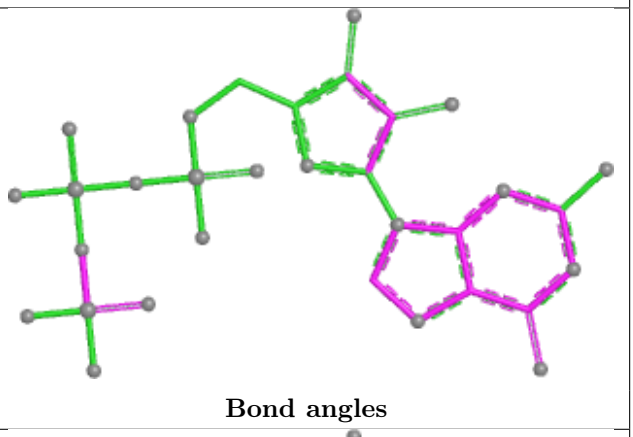

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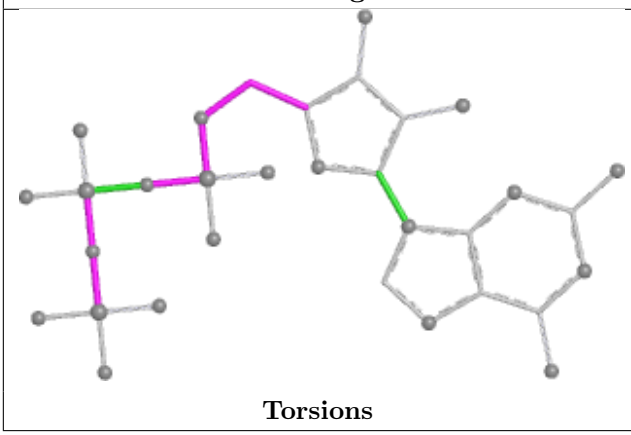

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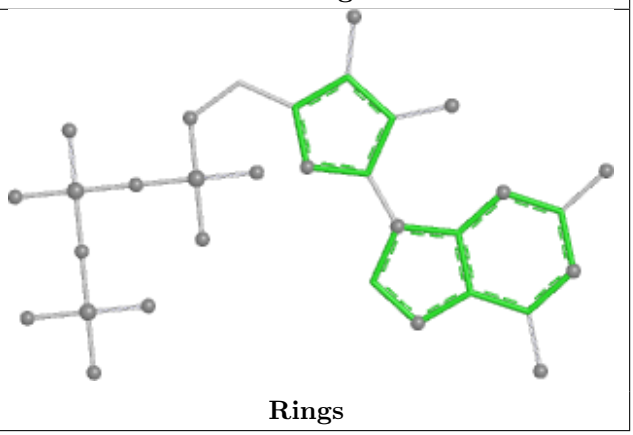
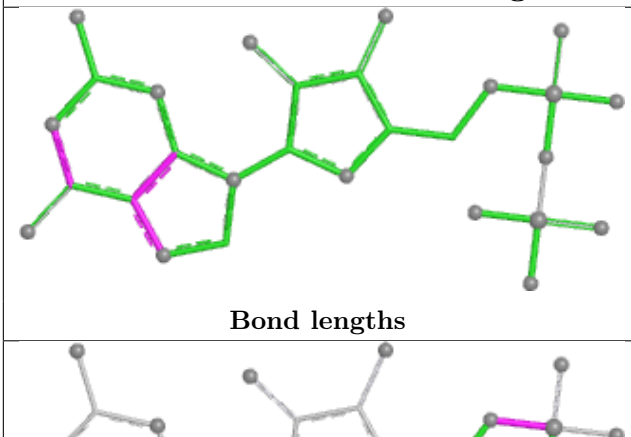


Rings

Ligand GDP TB 500



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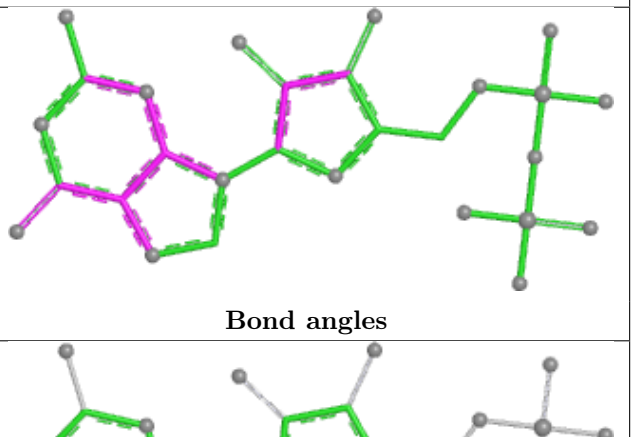

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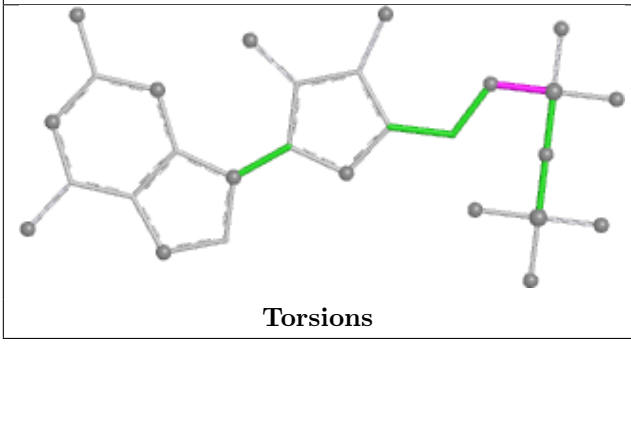

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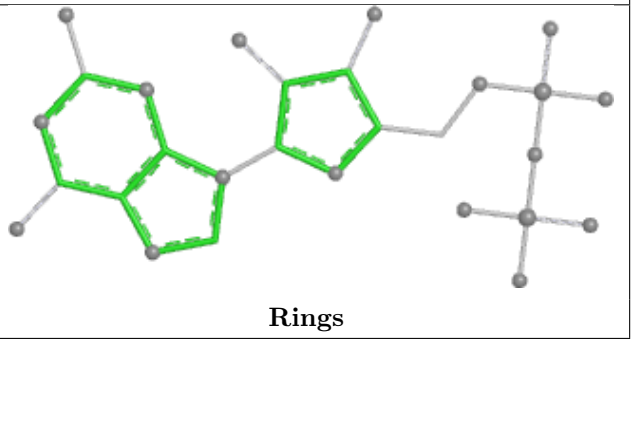
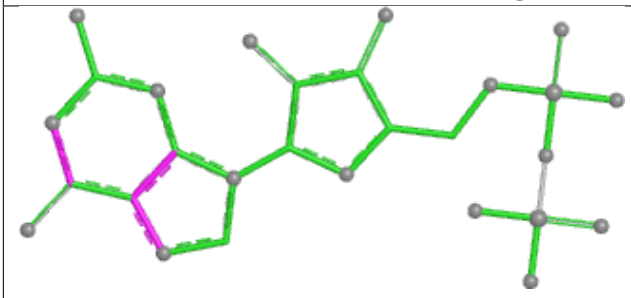


Rings

Ligand GDP JK 500



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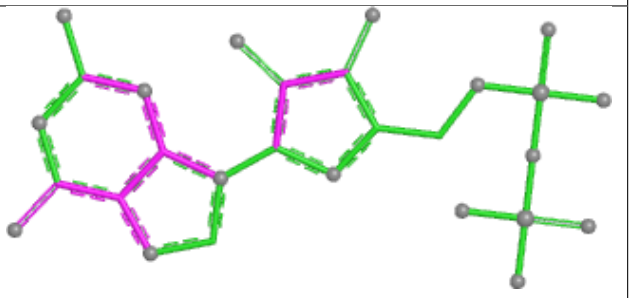

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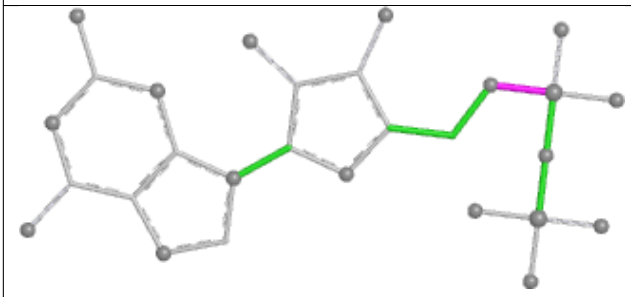

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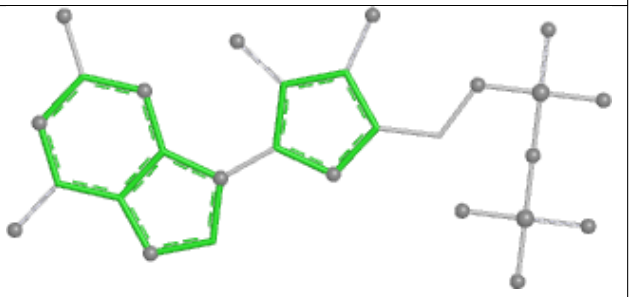
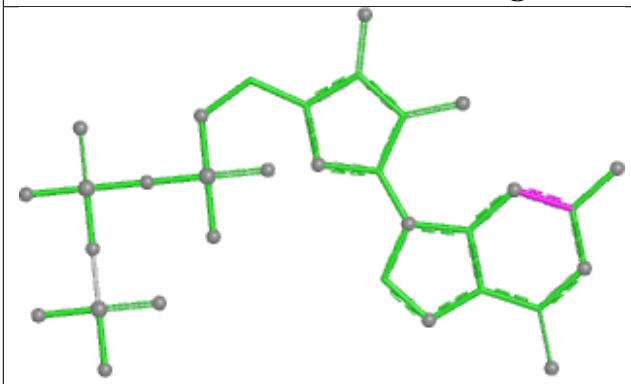


Rings

Ligand GTP GC 501



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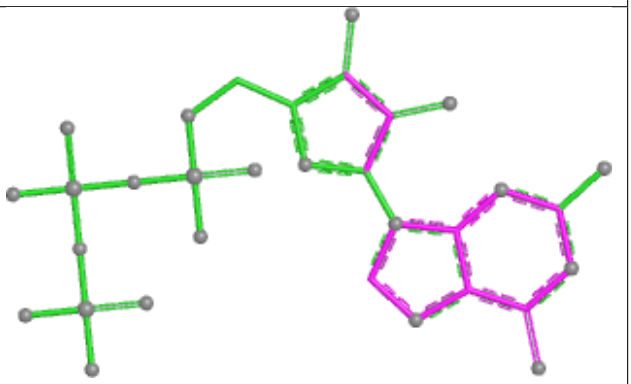

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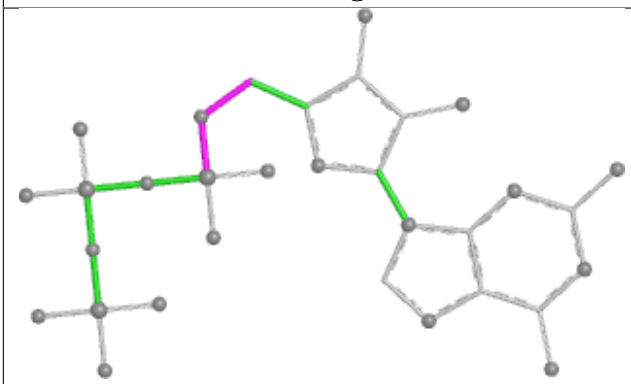

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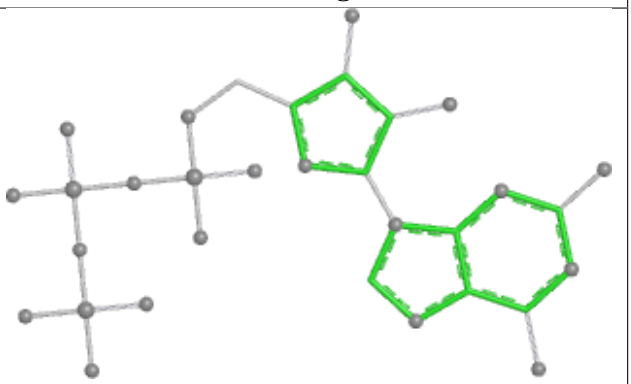
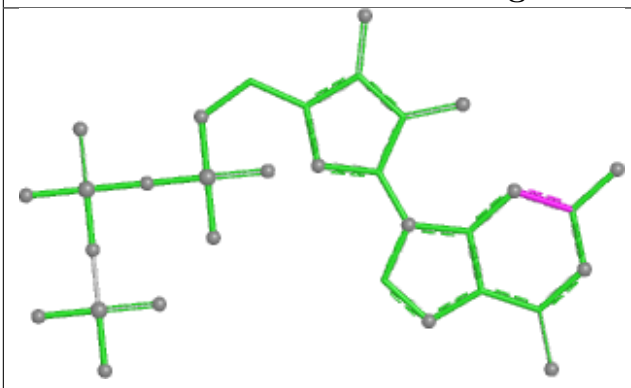


Rings

Ligand GTP RH 501



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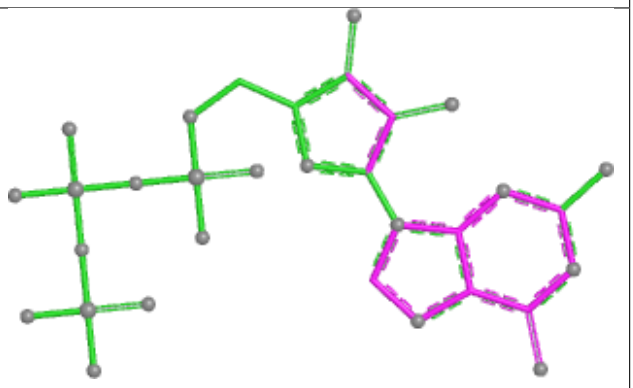

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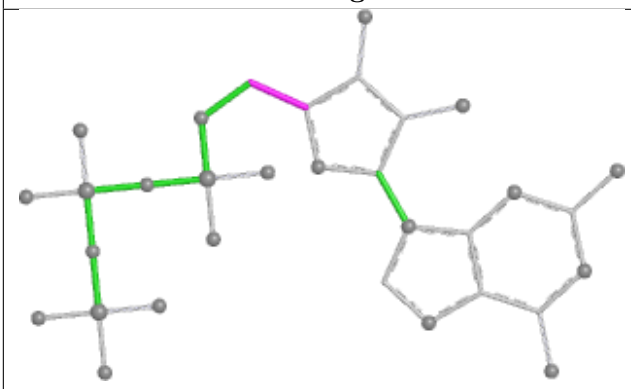

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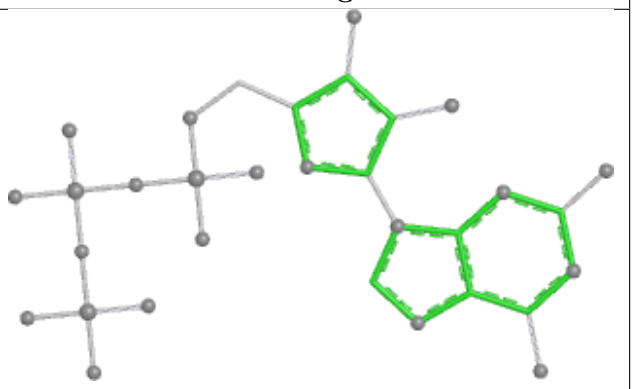
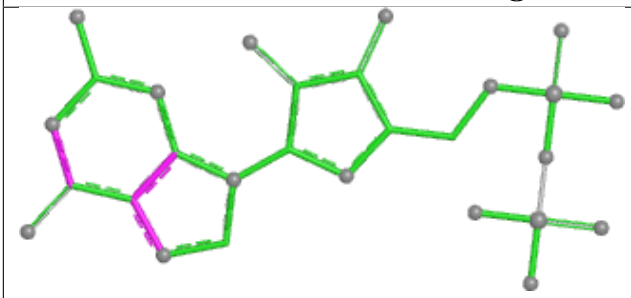


Rings

Ligand GDP BD 500



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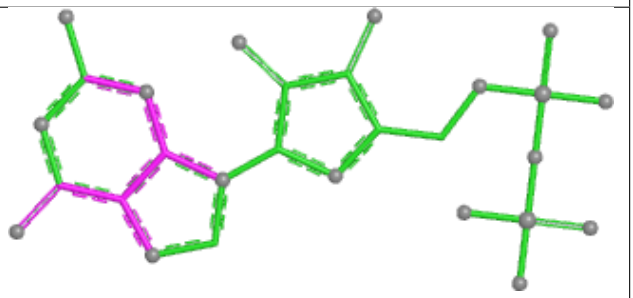
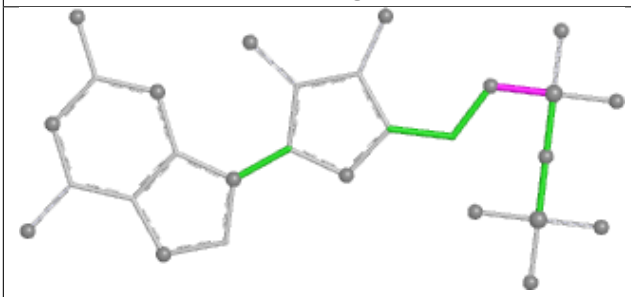


Bond angles



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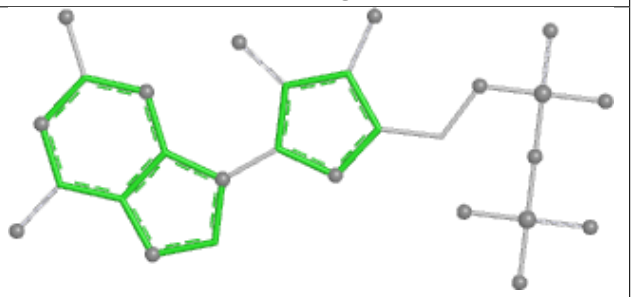
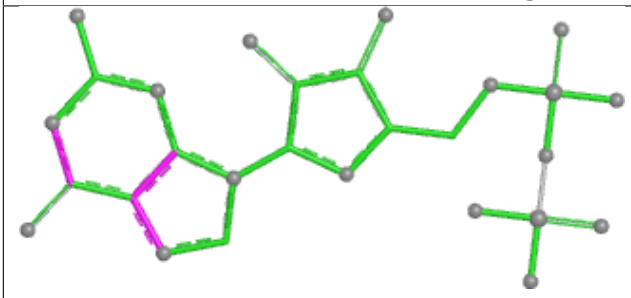
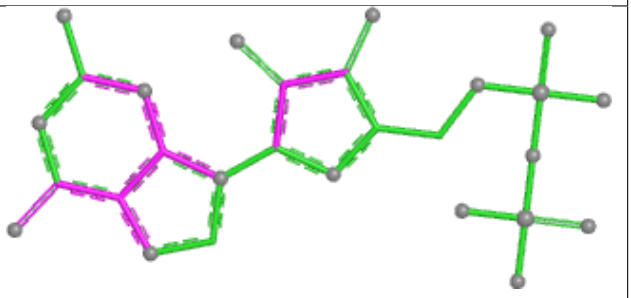


Rings

Ligand GDP O 500



Bond lengths



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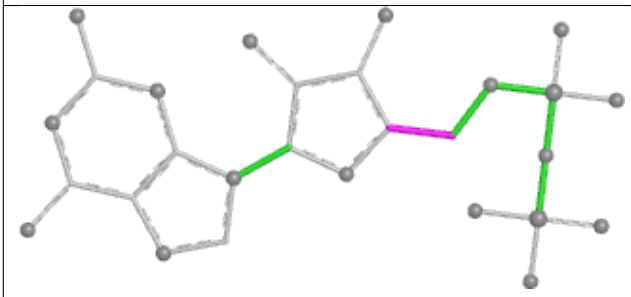
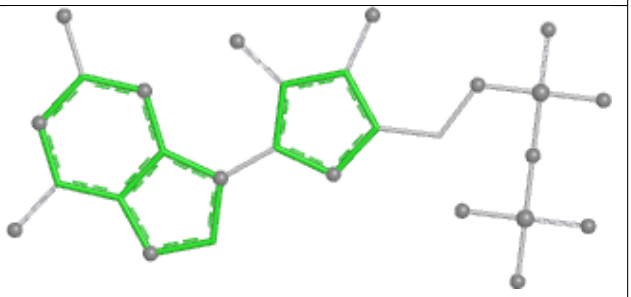
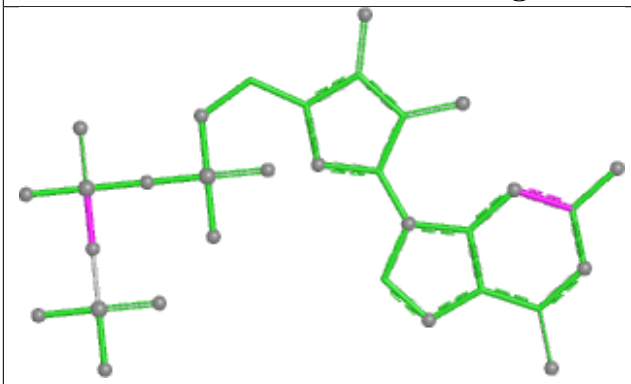


Torsions



Rings

Ligand GTP DF 501



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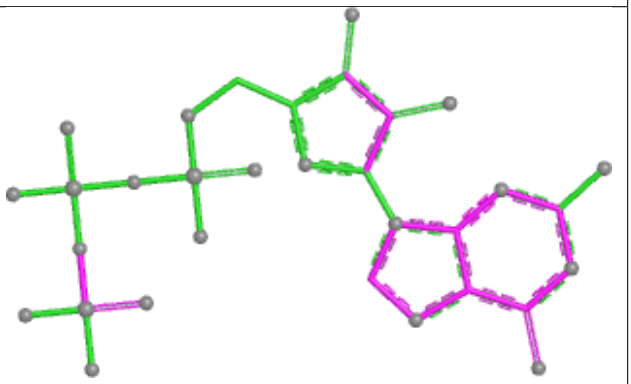

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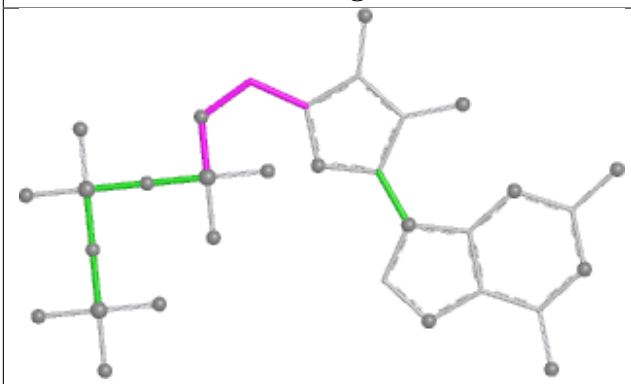

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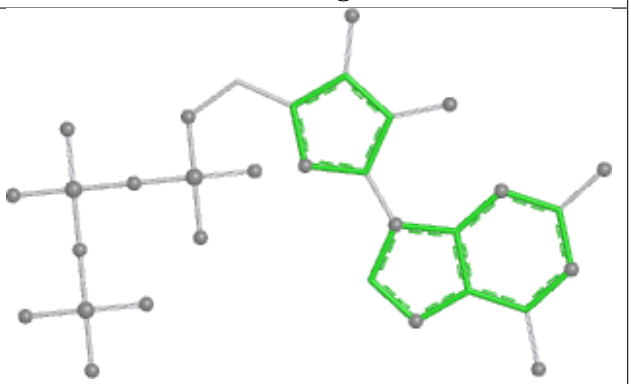
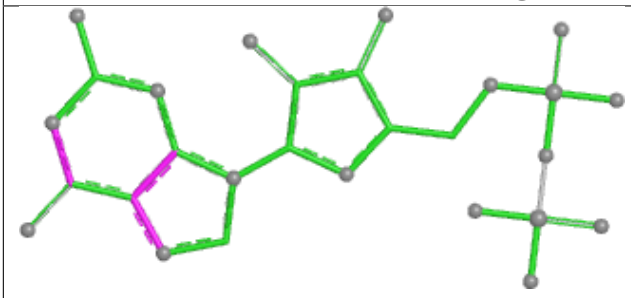


Rings

Ligand GDP EJ 500



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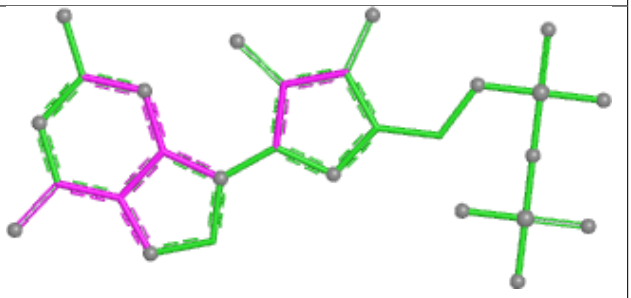

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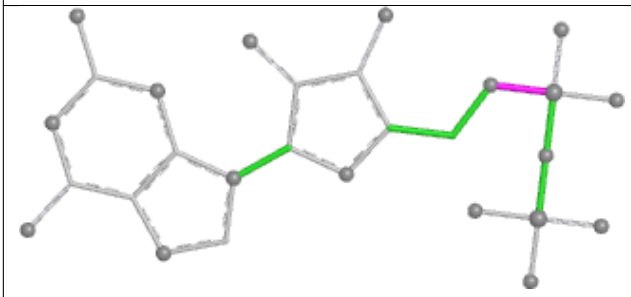

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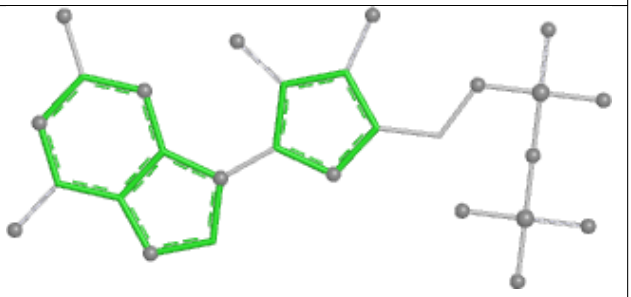
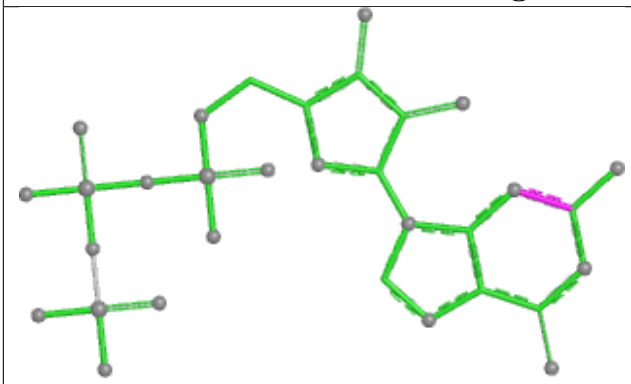


Rings

Ligand GTP FK 501



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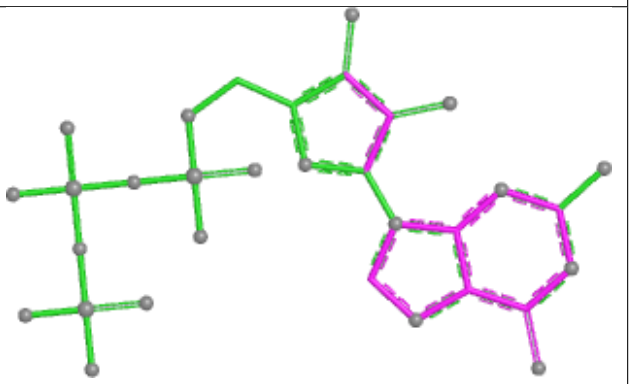

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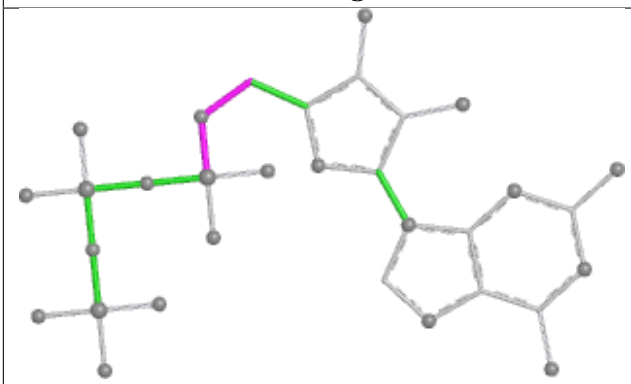

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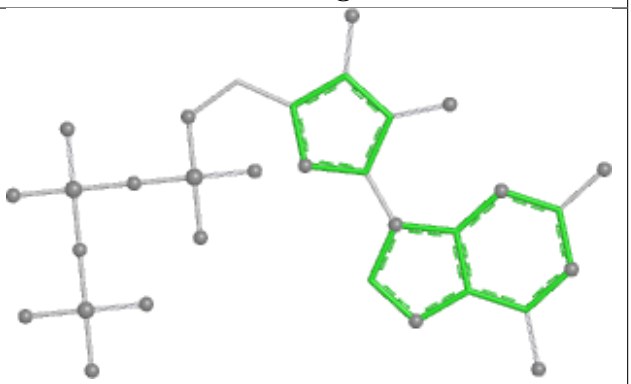
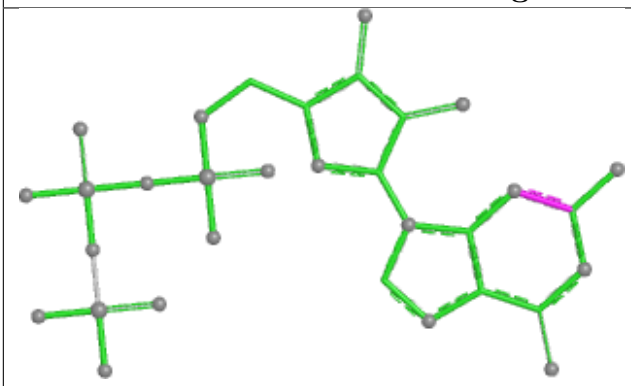


Rings

Ligand GTP QL 501



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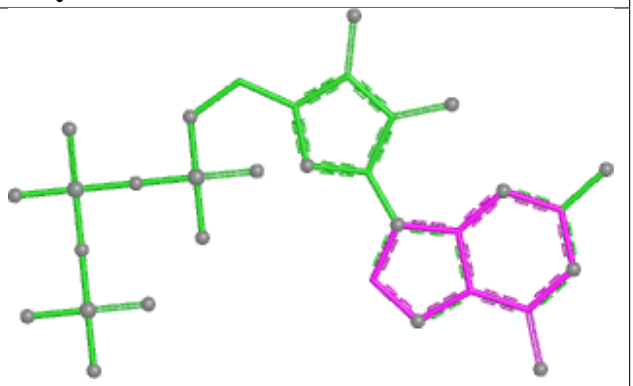

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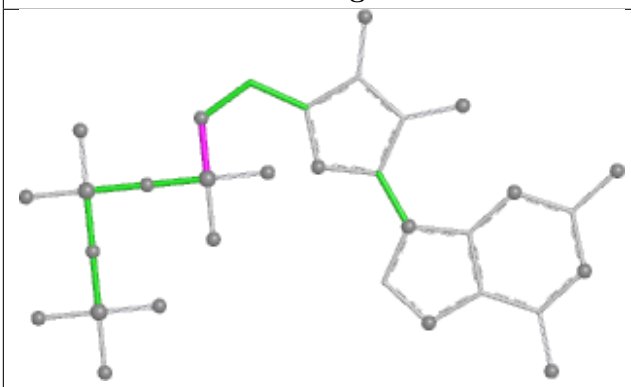

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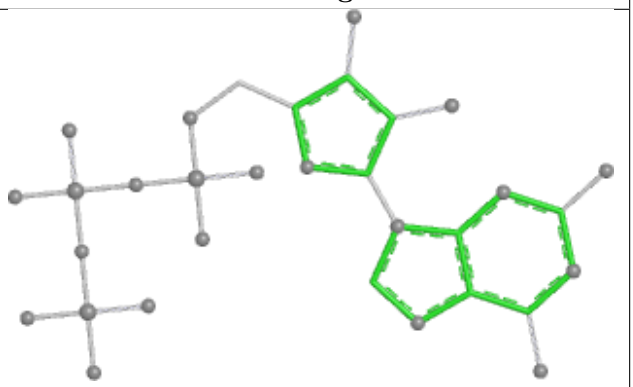
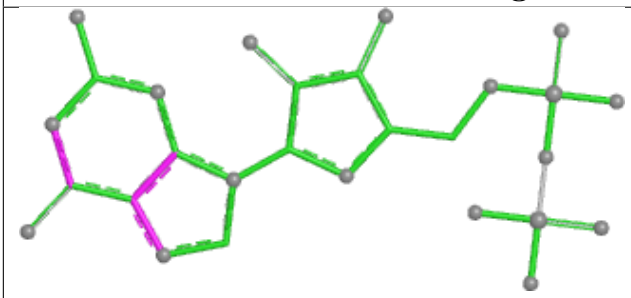


Rings

Ligand GDP FB 500



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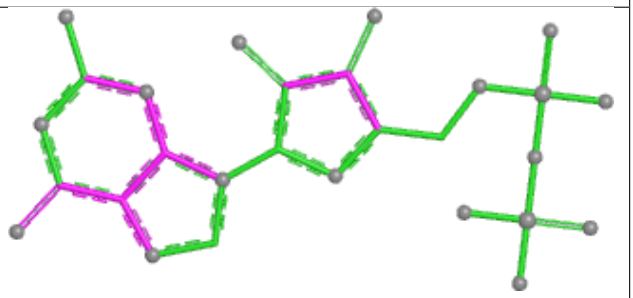

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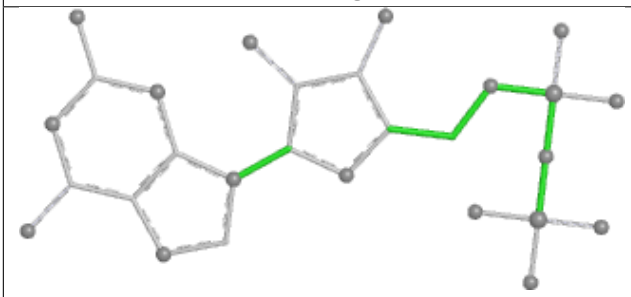

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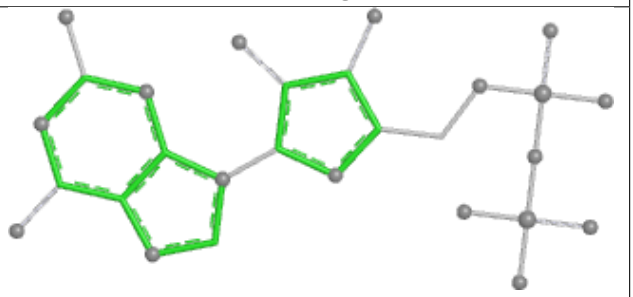
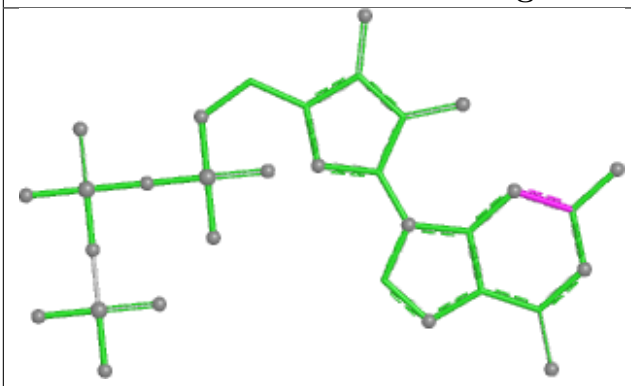


Rings

Ligand GTP PI 501



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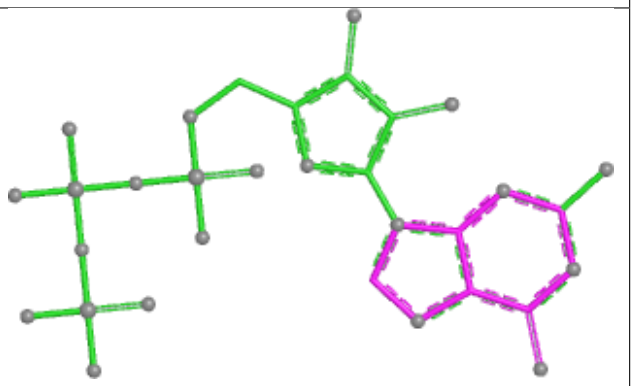

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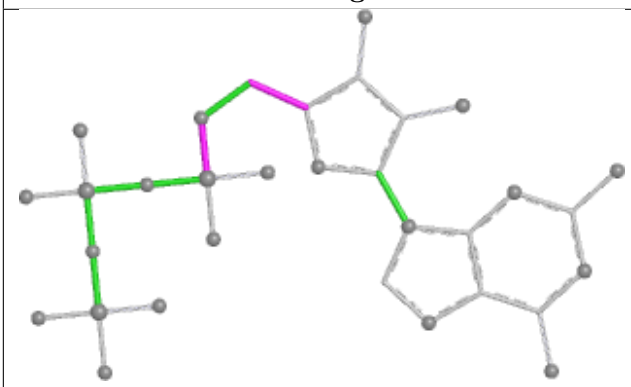

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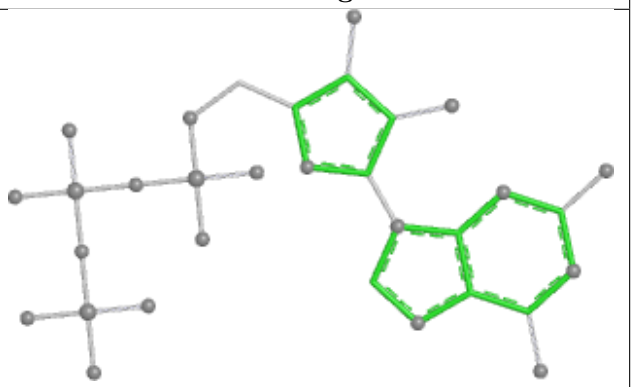
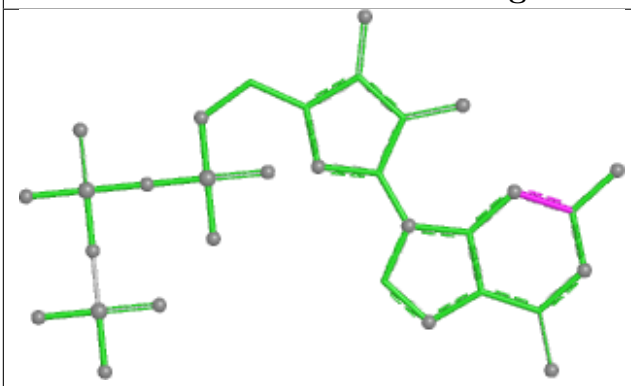


Rings

Ligand GTP TK 501



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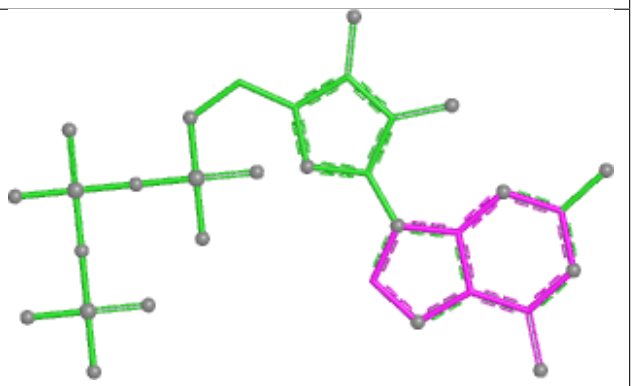

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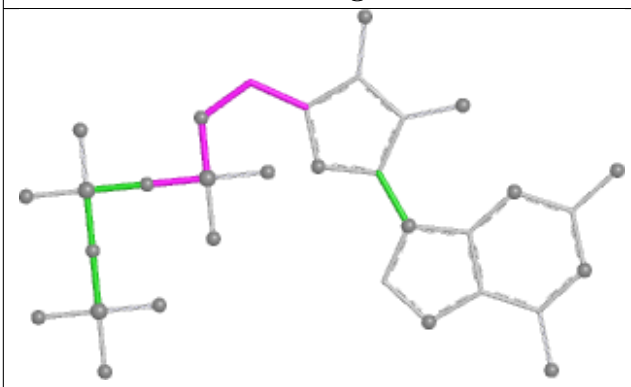

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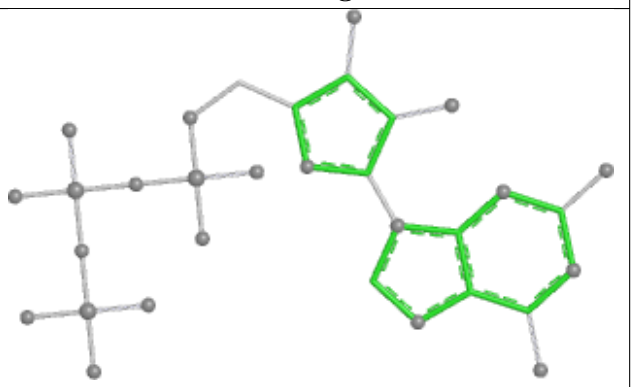
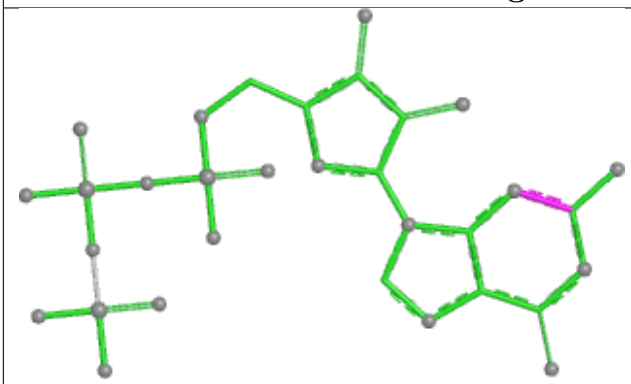


Rings

Ligand GTP KH 501



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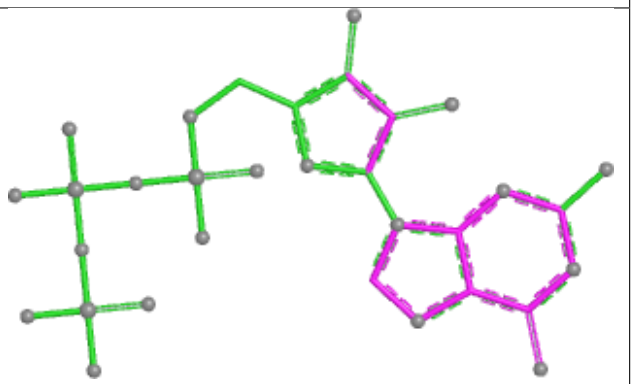

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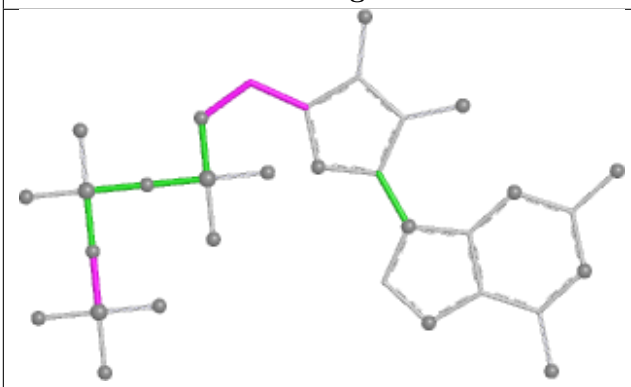

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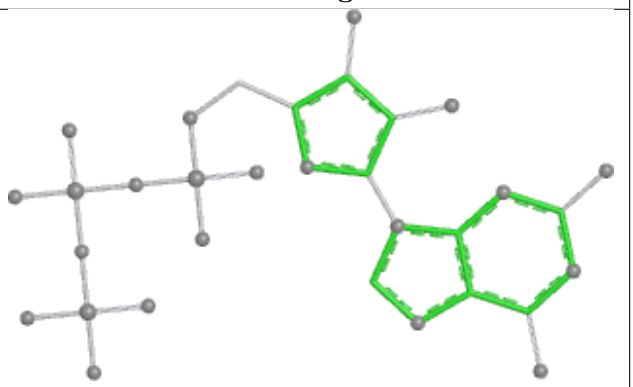
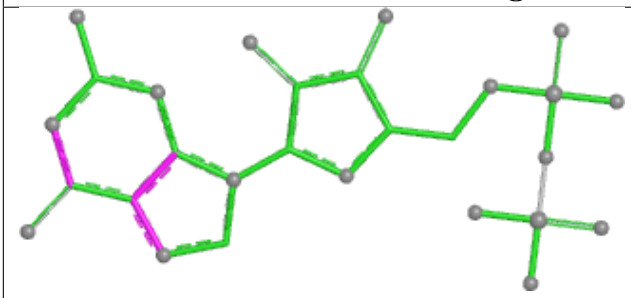


Rings

Ligand GDP QA 500



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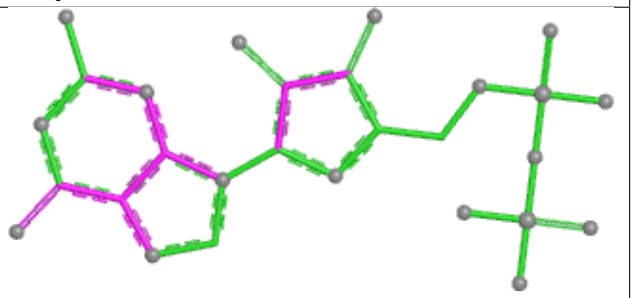

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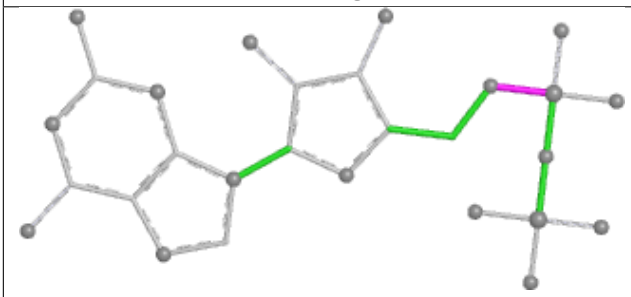

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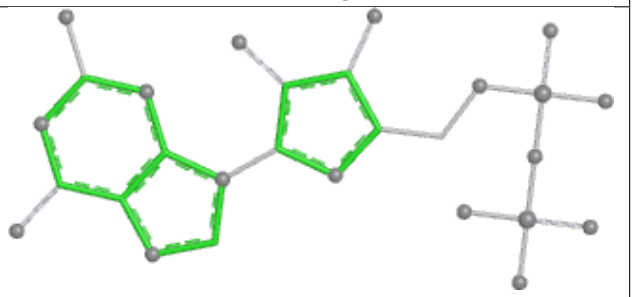
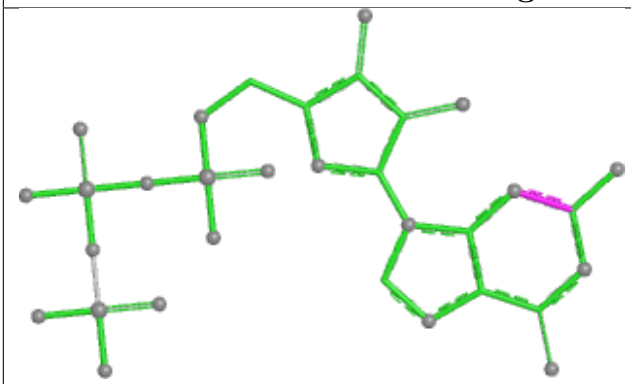


Rings

Ligand GTP EI 501



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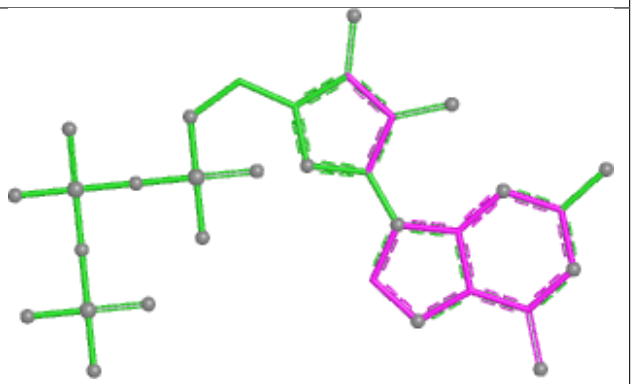

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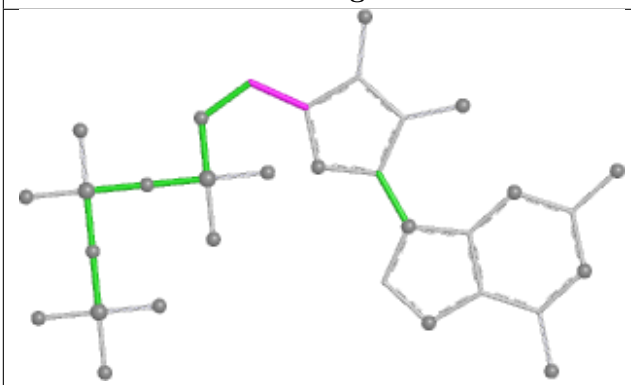

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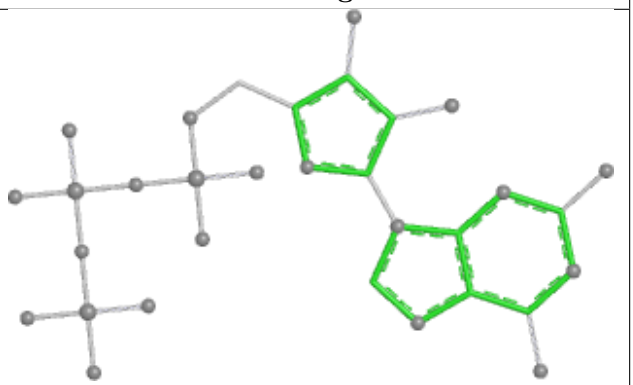
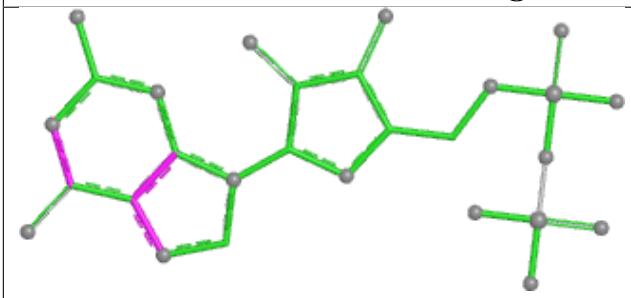


Rings

Ligand GDP QC 500



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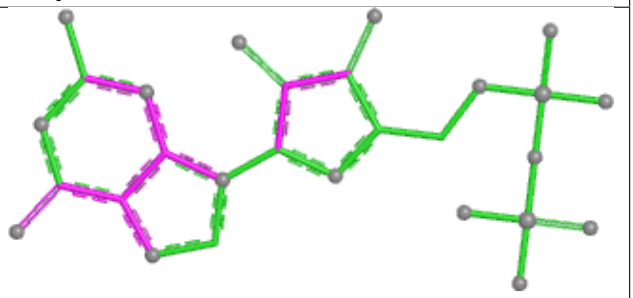

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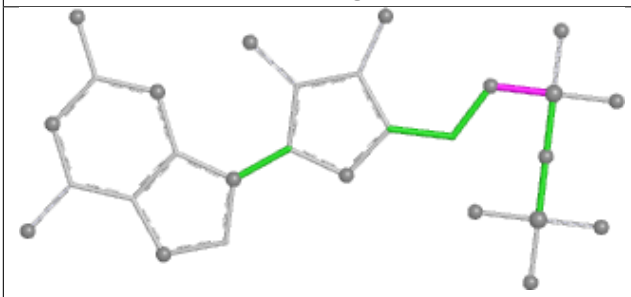

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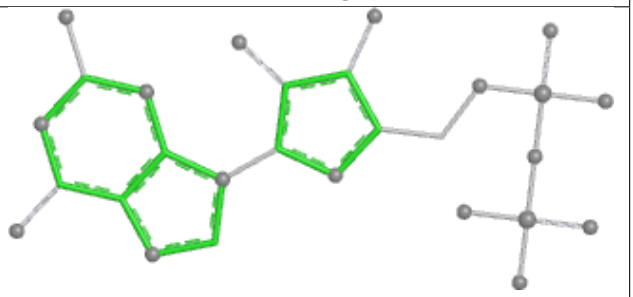
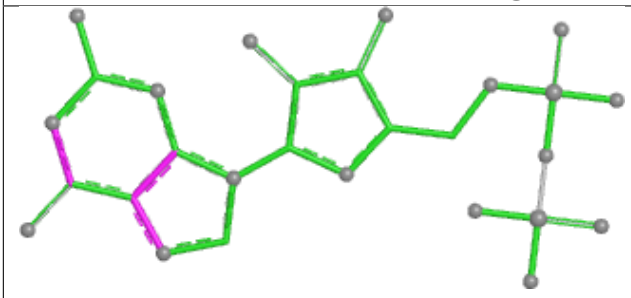


Rings

Ligand GDP GB 500



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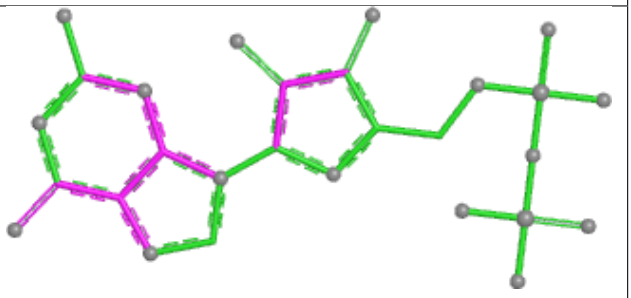

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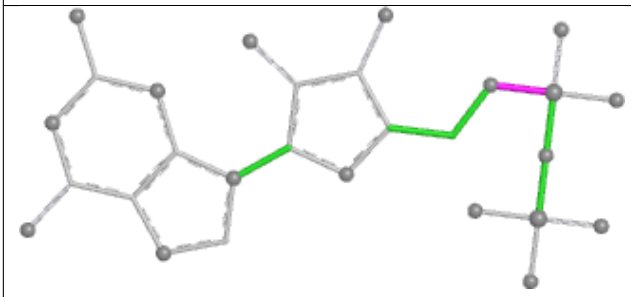

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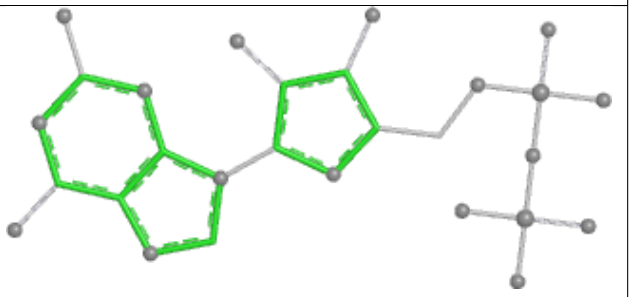
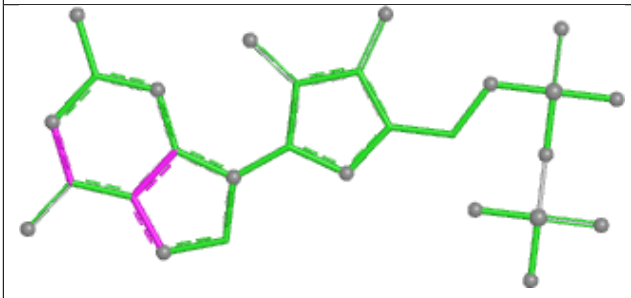


Rings

Ligand GDP GD 500



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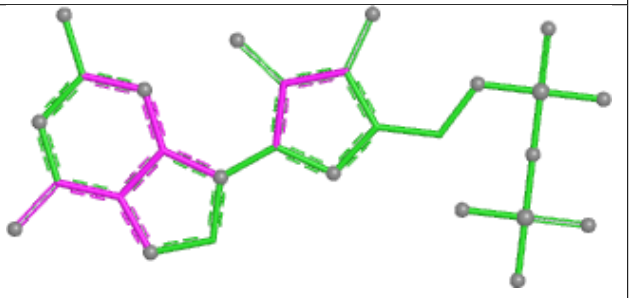
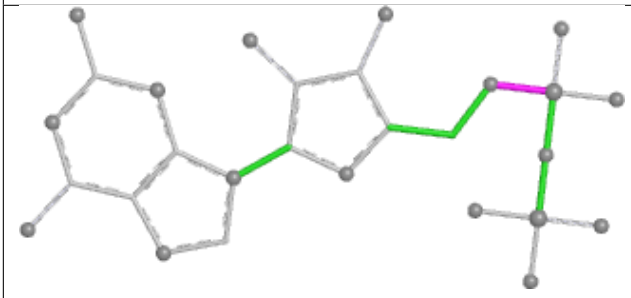


Bond angles



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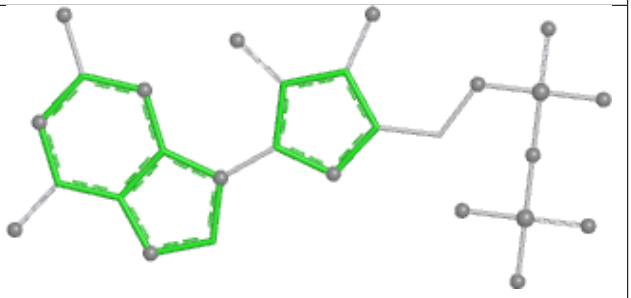
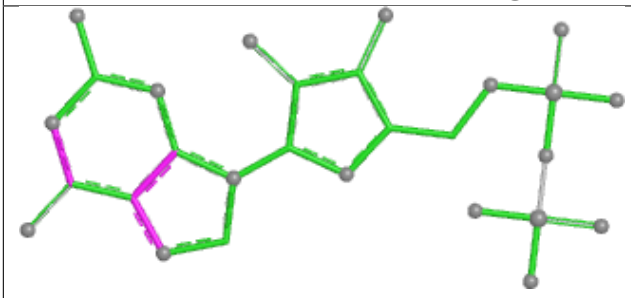


Rings

Ligand GDP HH 500



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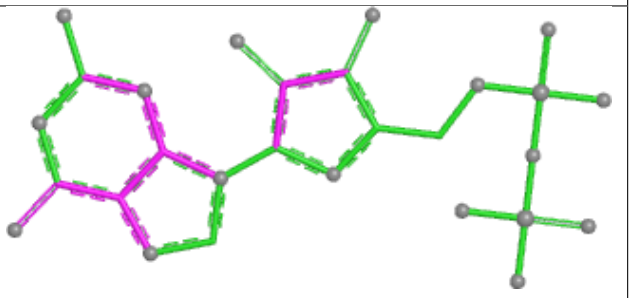

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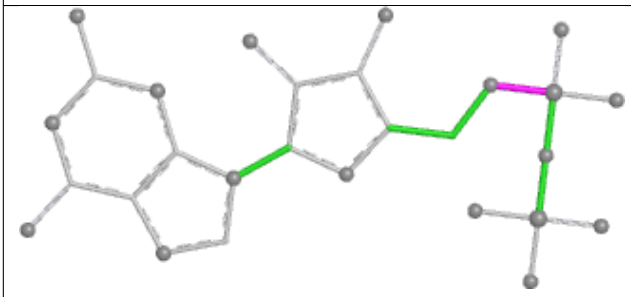
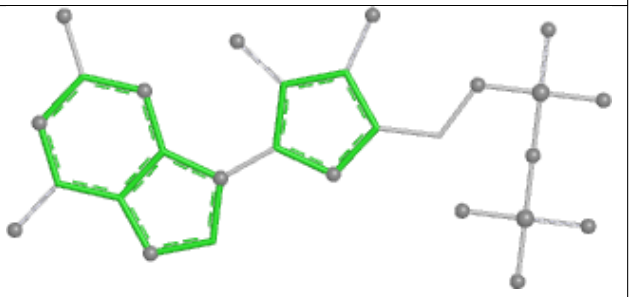
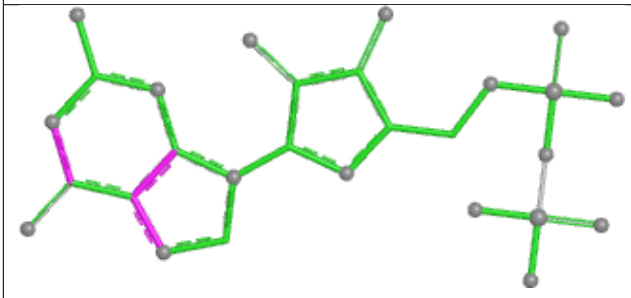


Torsions



Rings

Ligand GDP BL 500



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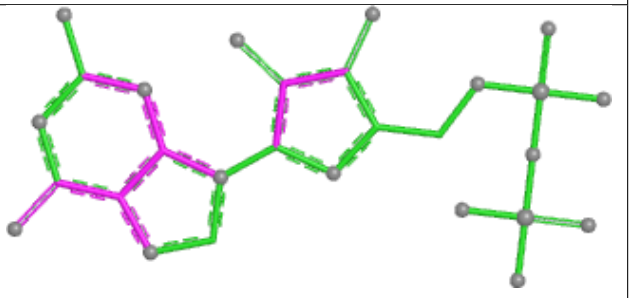

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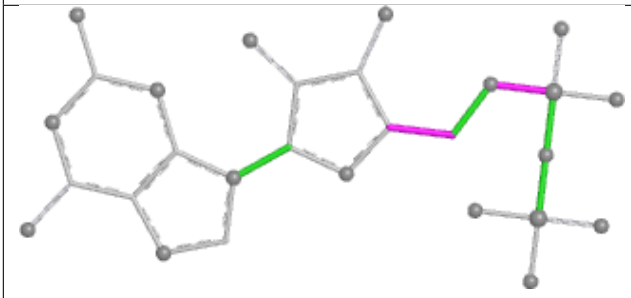

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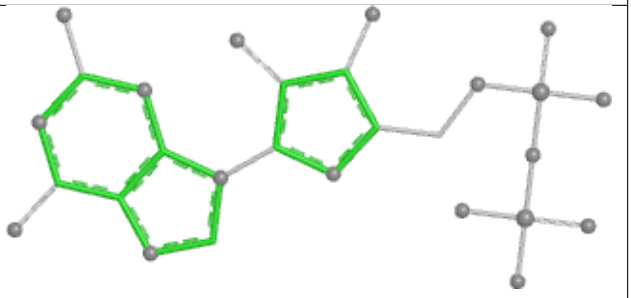
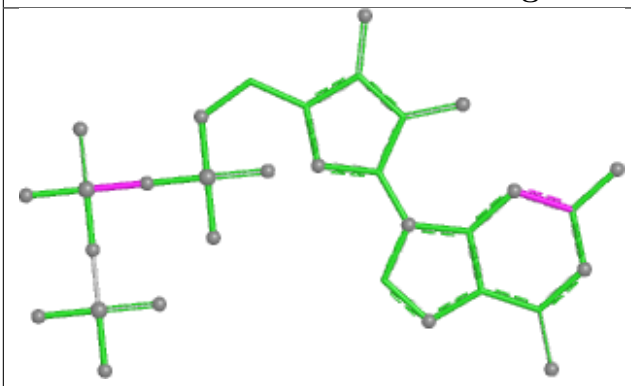


Rings

Ligand GTP K 501



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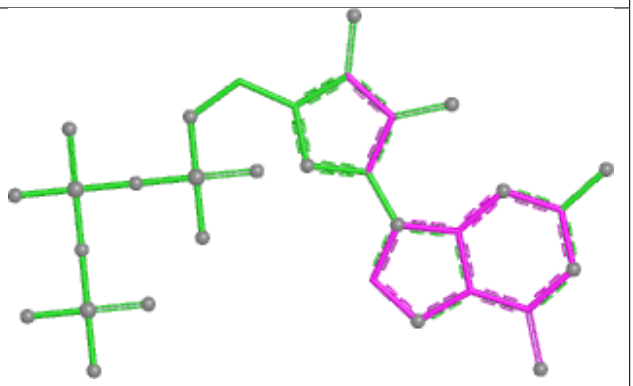

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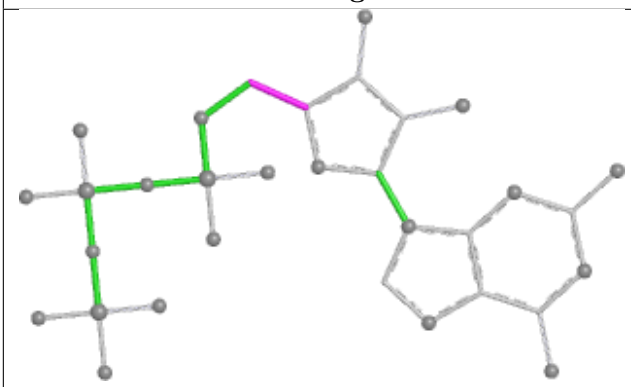

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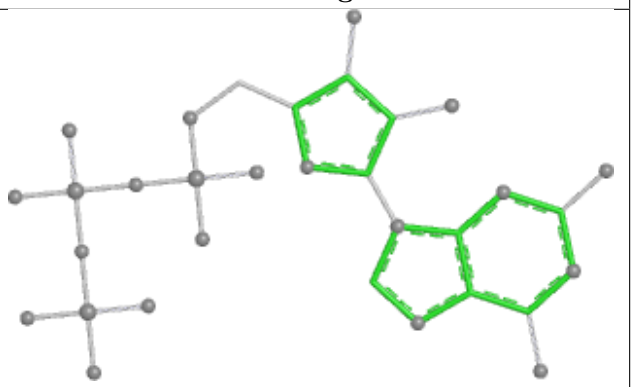
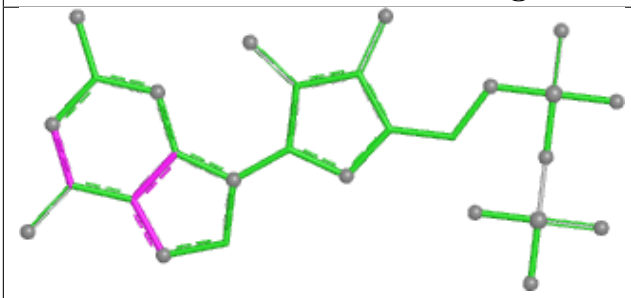


Rings

Ligand GDP LA 500



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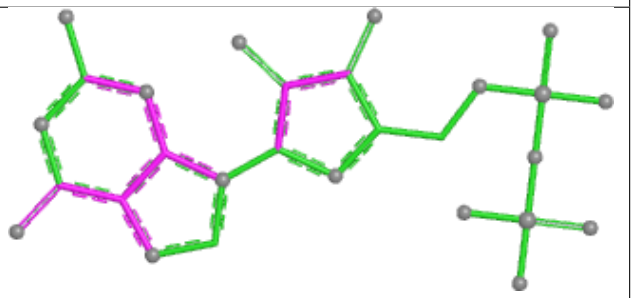

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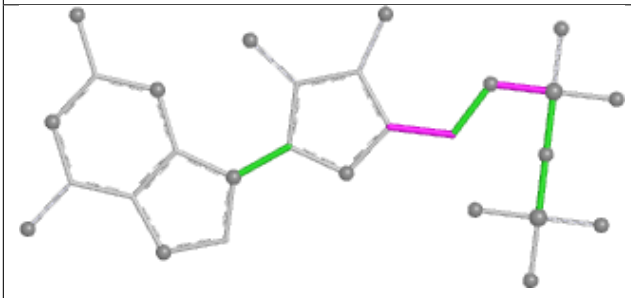

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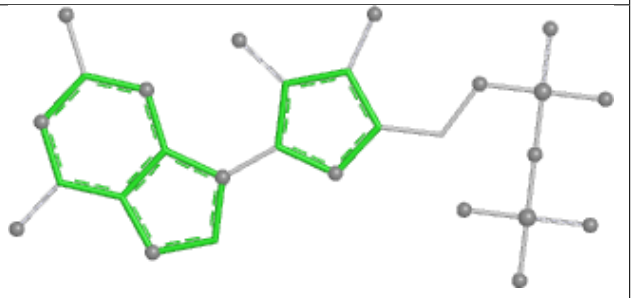
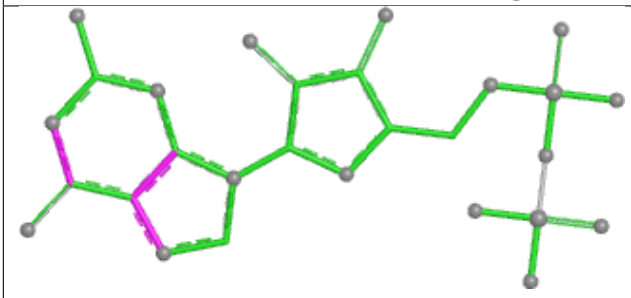


Rings

Ligand GDP HB 500



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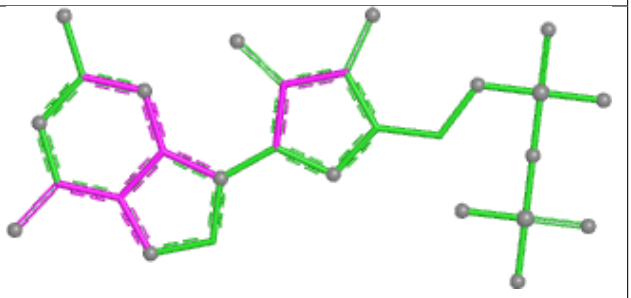

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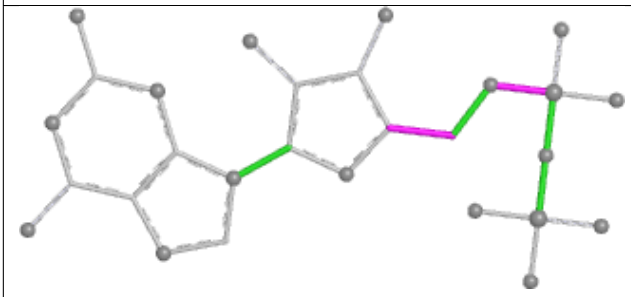

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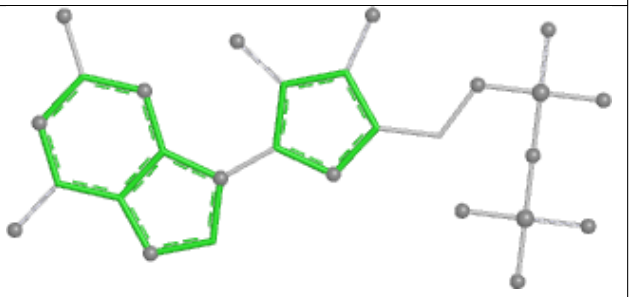
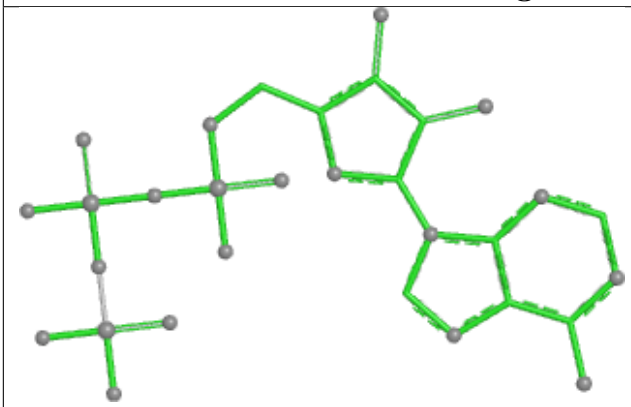


Rings

Ligand ATP 2w 501



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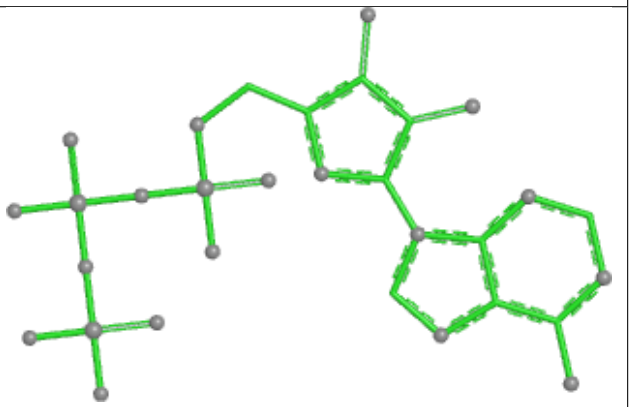

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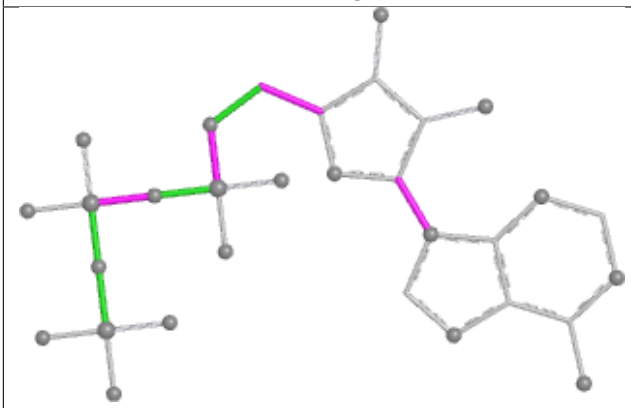

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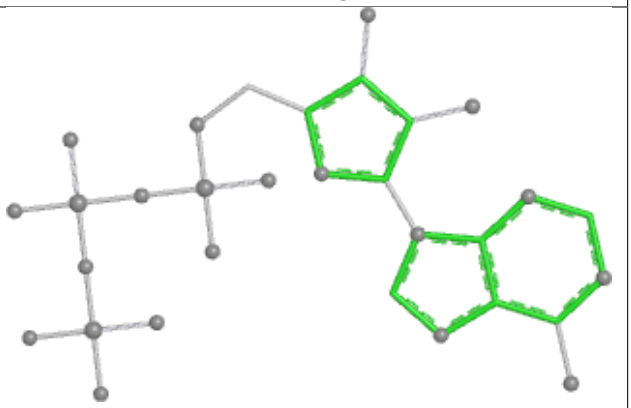
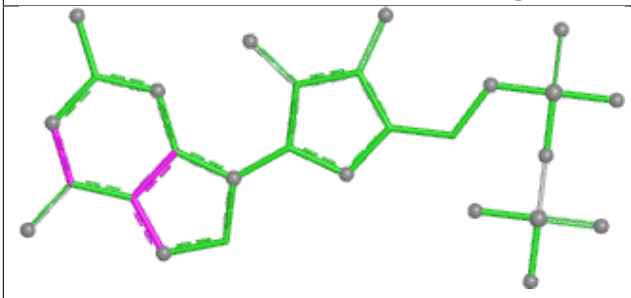


Rings

Ligand GDP VF 500



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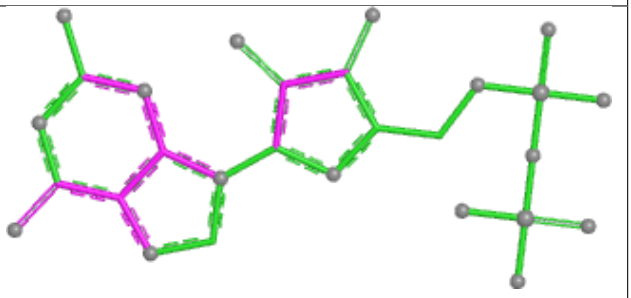

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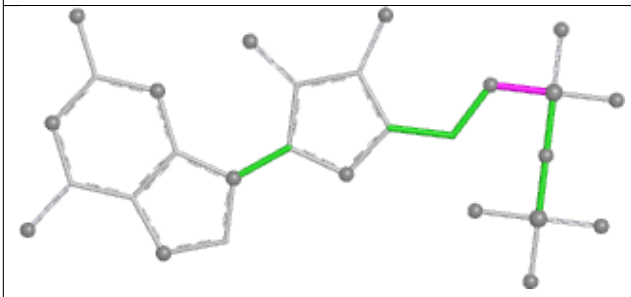

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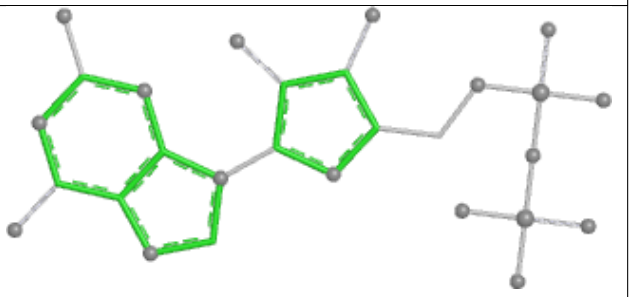

Rings

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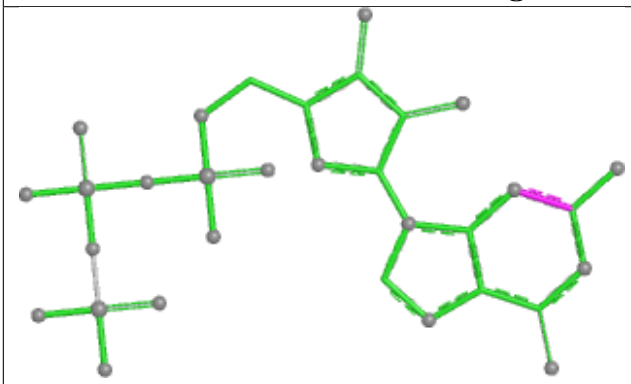

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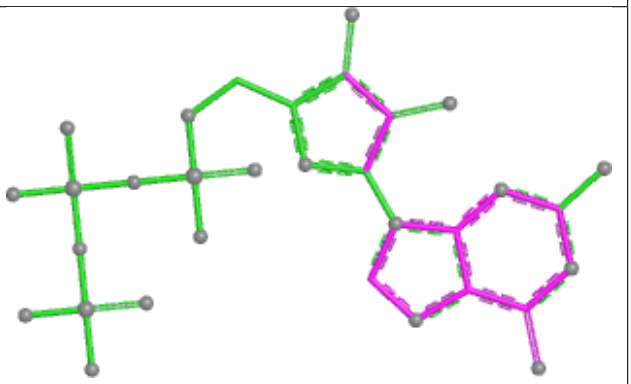

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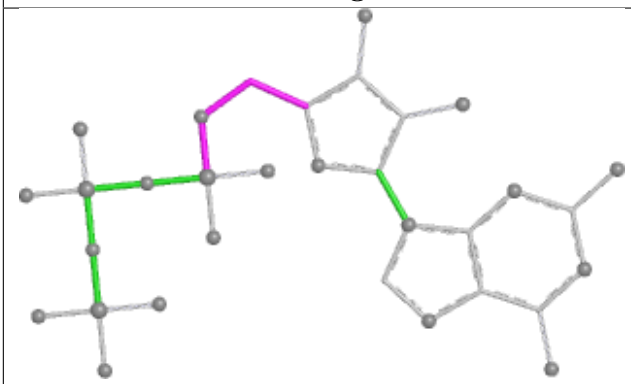

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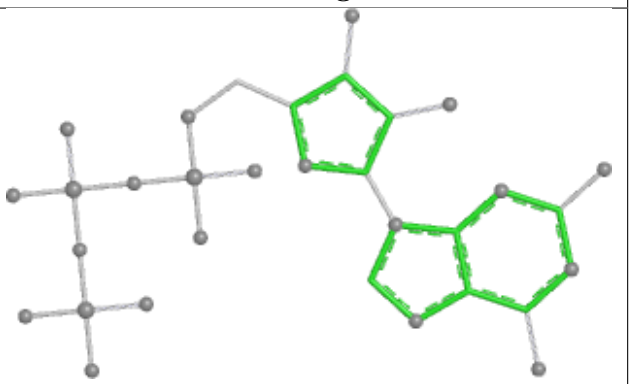
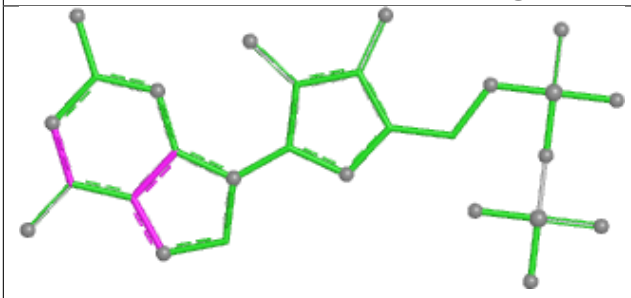


Rings

Ligand GDP NL 500



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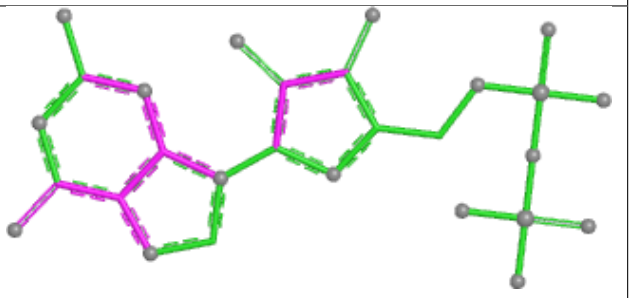

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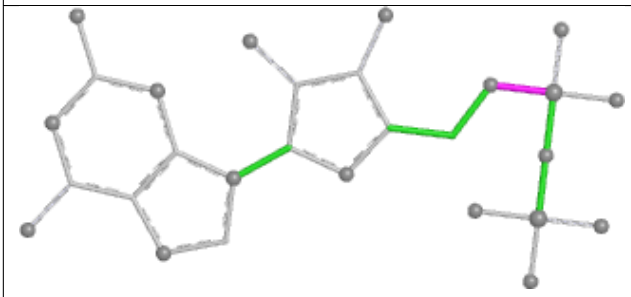

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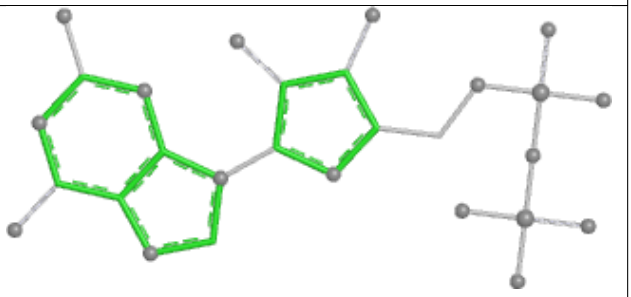

Rings

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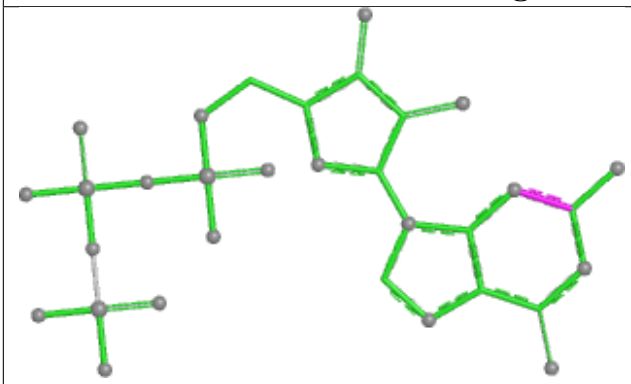

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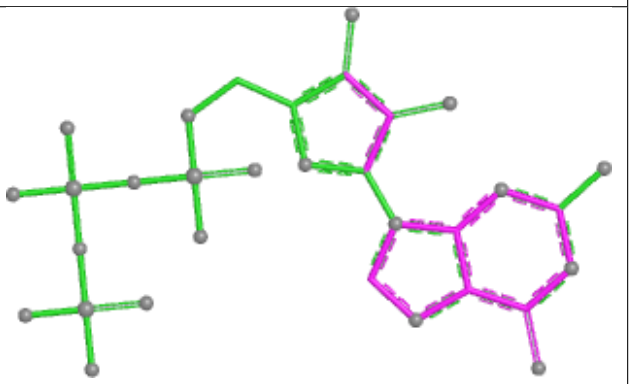

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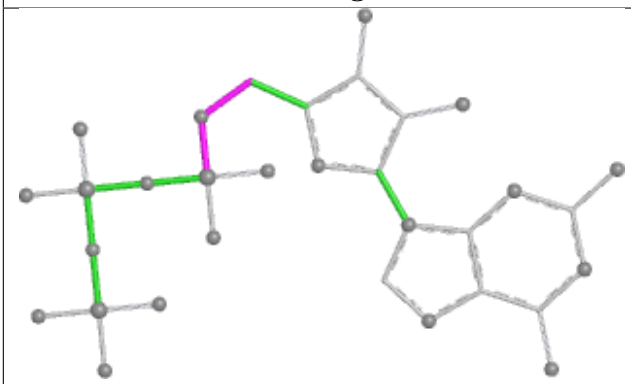

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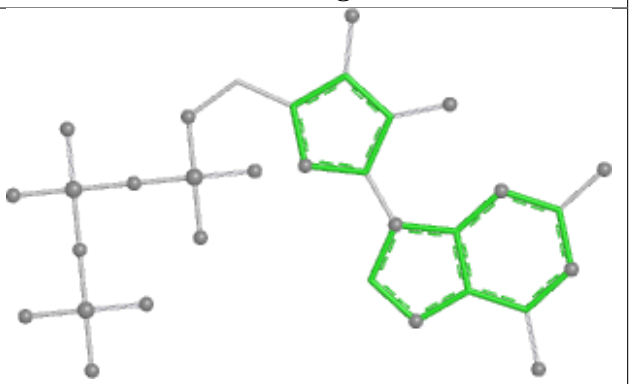
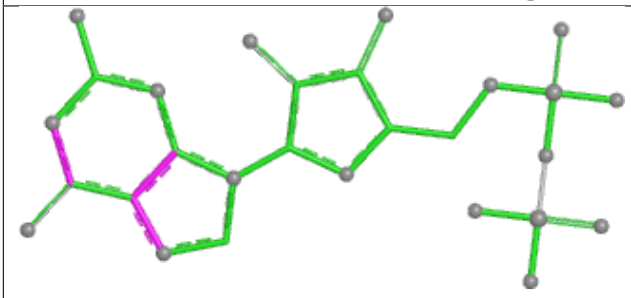


Rings

Ligand GDP P 500



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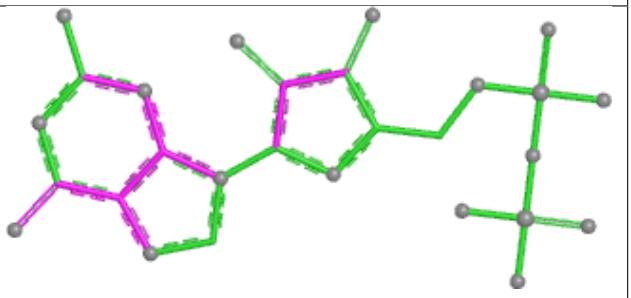

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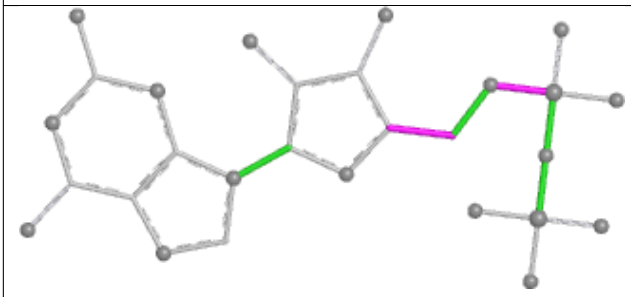

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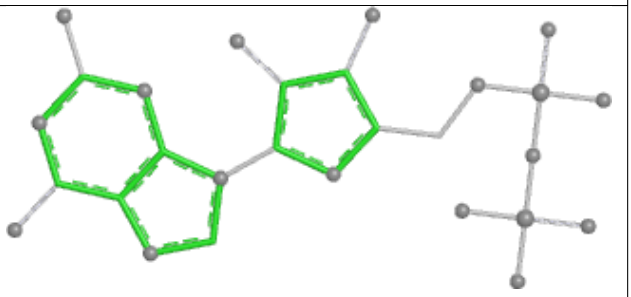
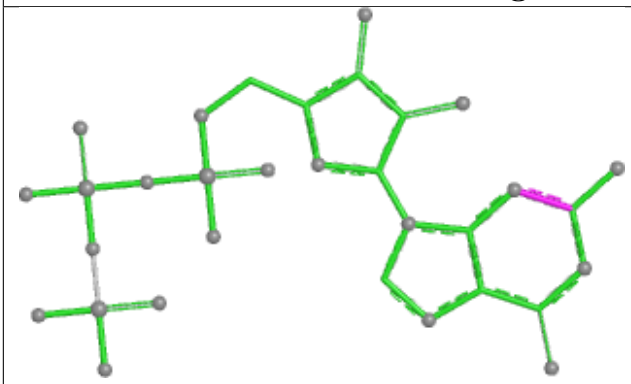


Rings

Ligand GTP GE 501



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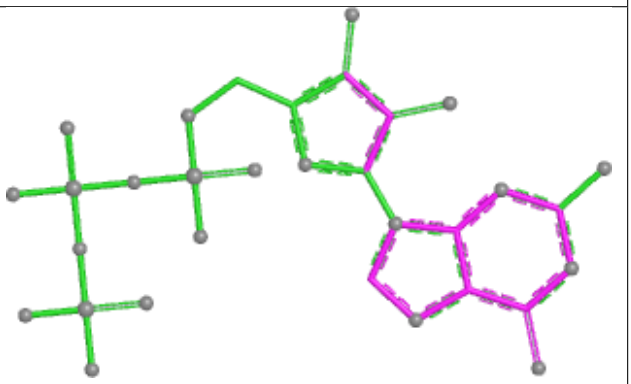
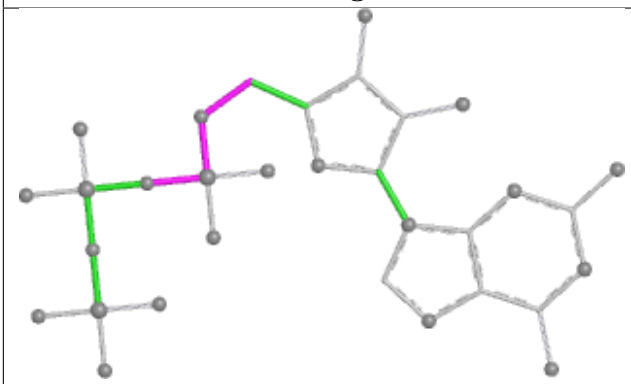


Bond angles



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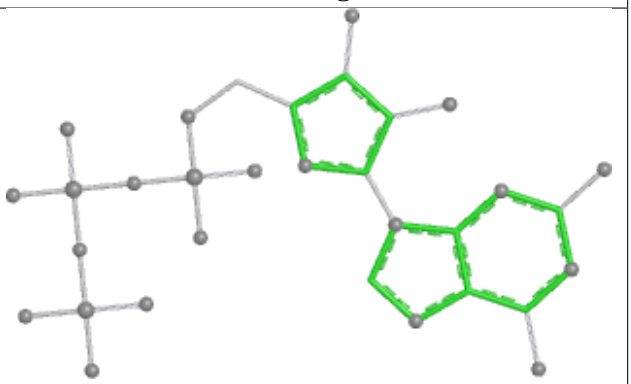
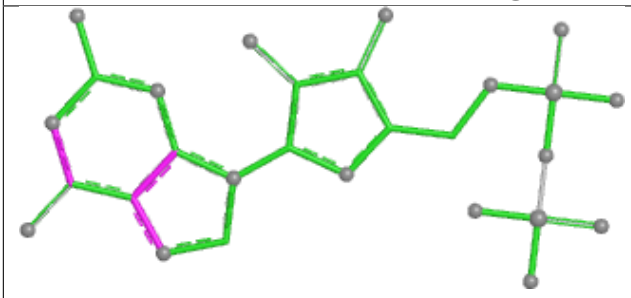


Rings

Ligand GDP VD 500



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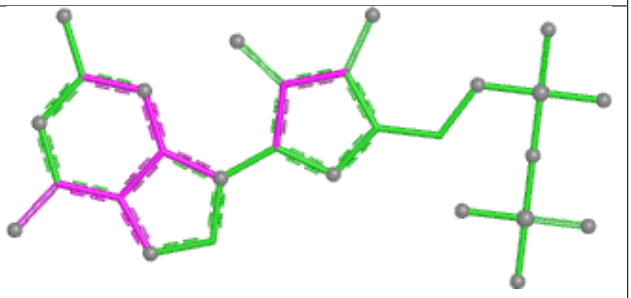
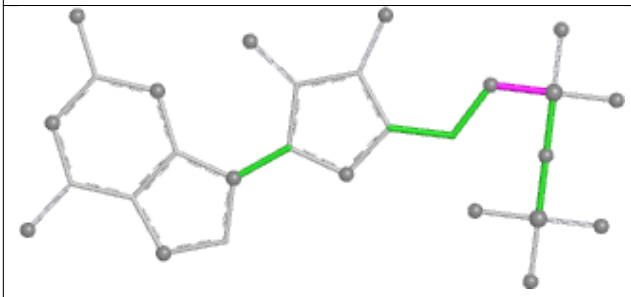


Bond angles



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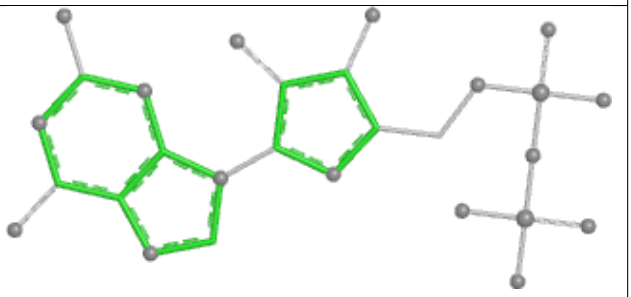
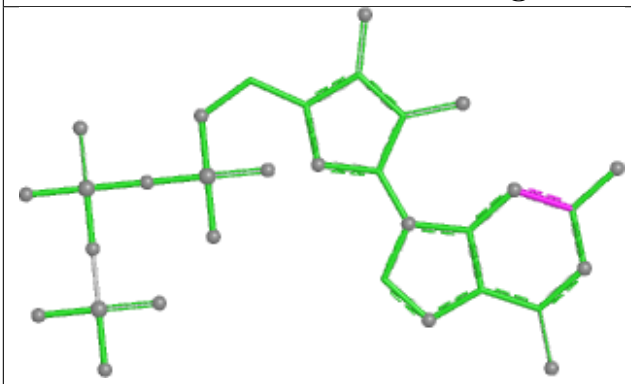


Rings

Ligand GTP HE 501



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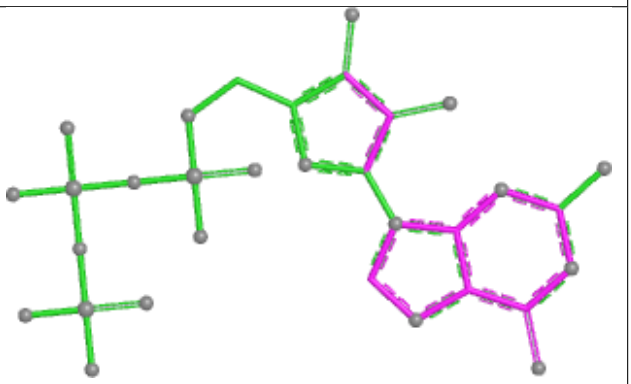
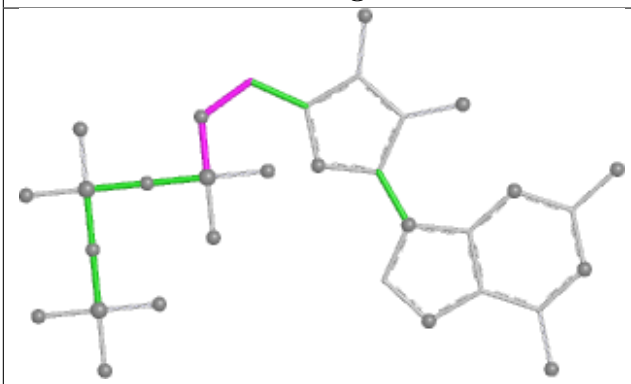
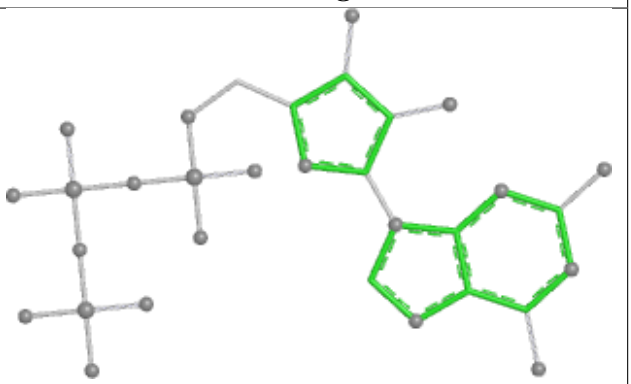


Bond angles

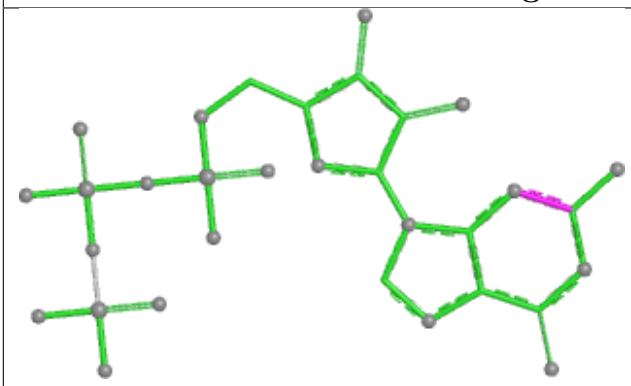


Torsions



Rings

Ligand GTP Q 501



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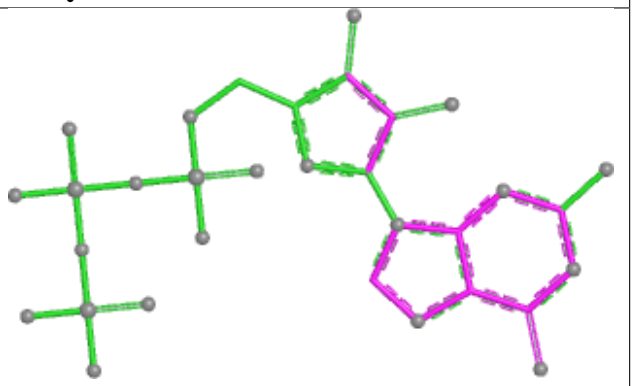
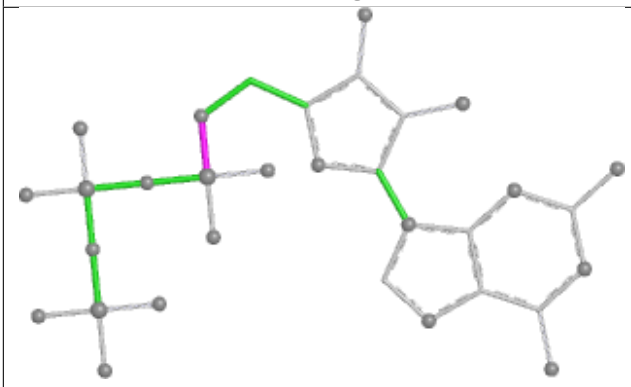


Bond angles



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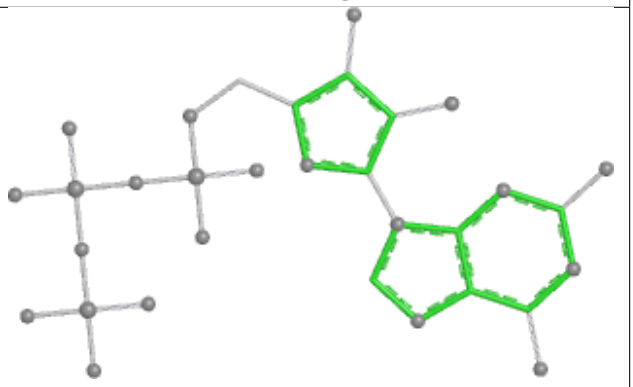
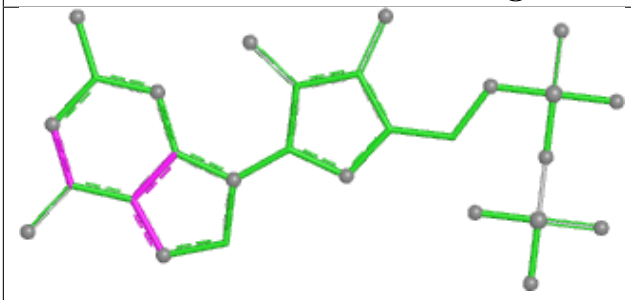


Rings

Ligand GDP UD 500



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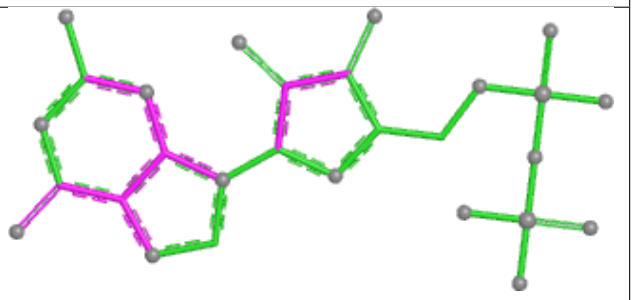

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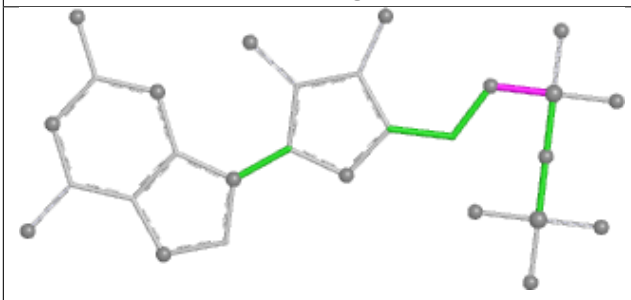

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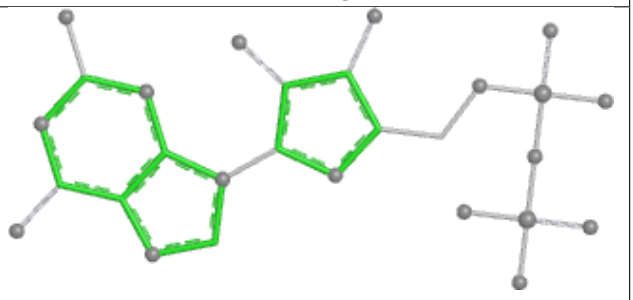

Rings

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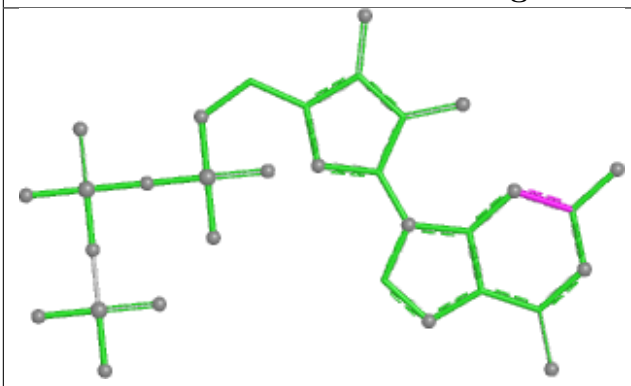

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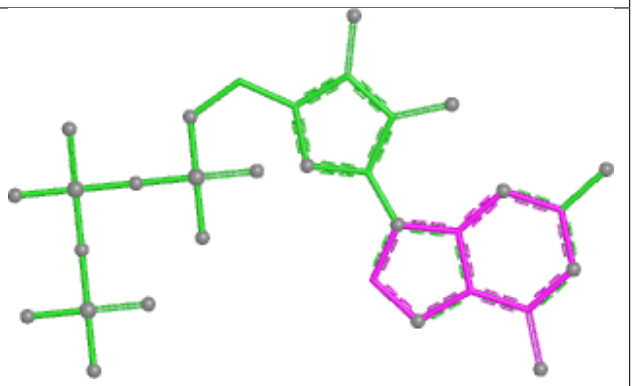

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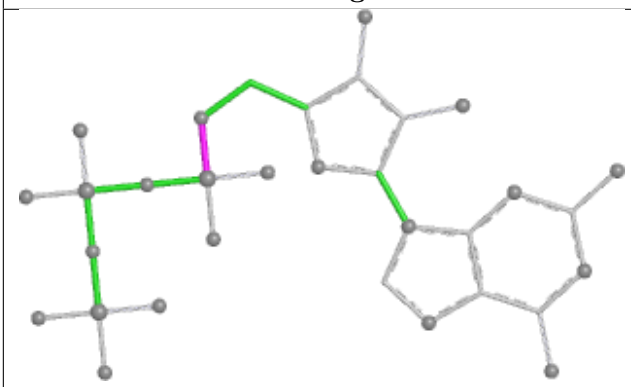

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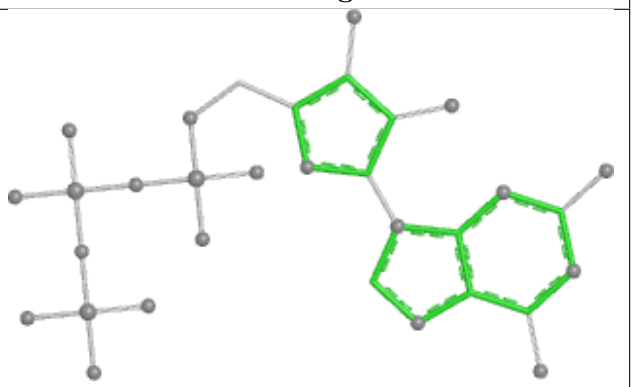
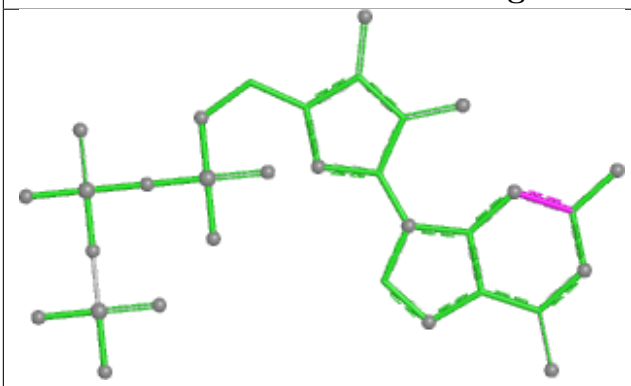


Rings

Ligand GTP KN 501



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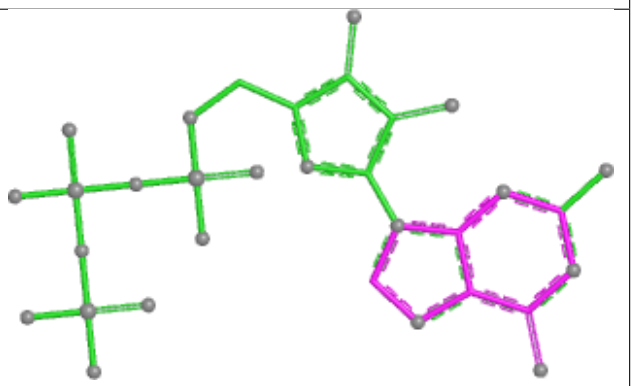

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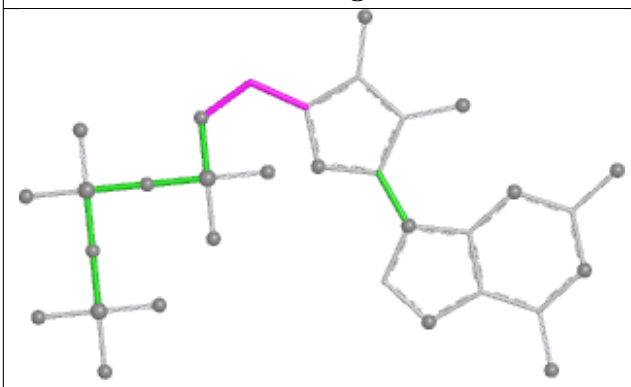

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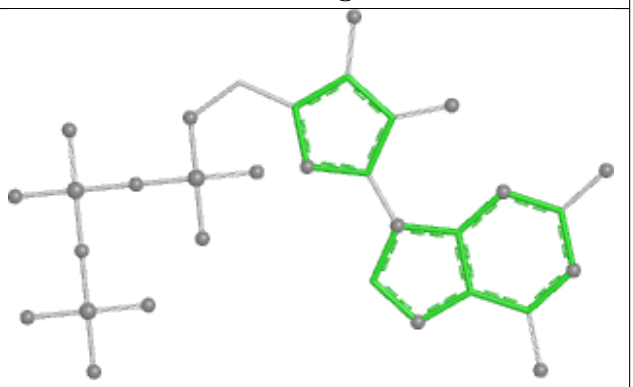
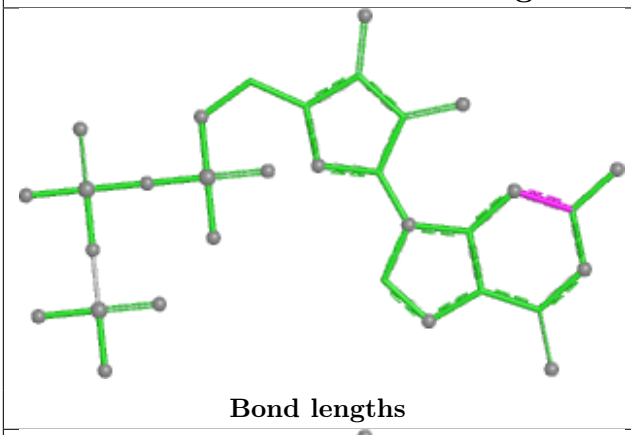


Rings

Ligand GTP IA 501



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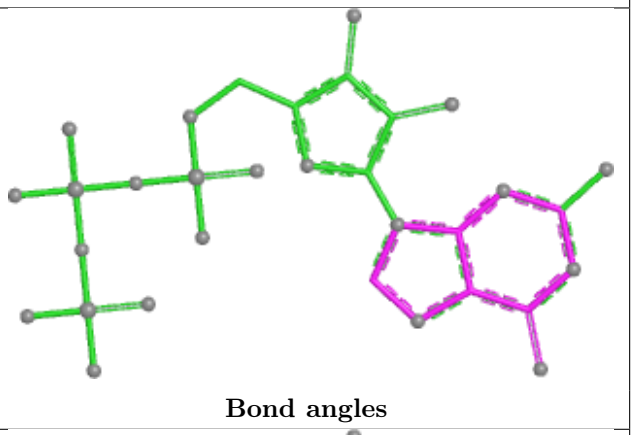

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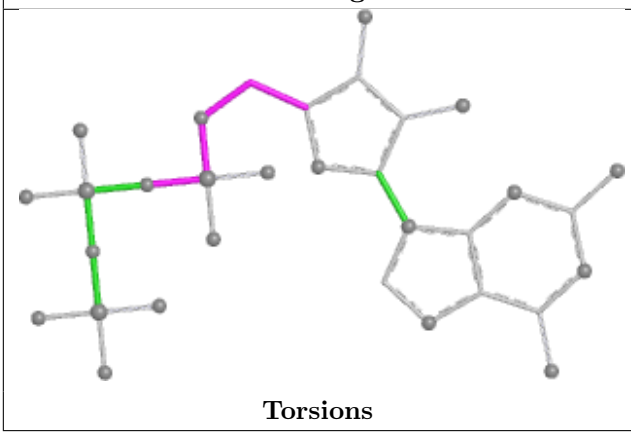

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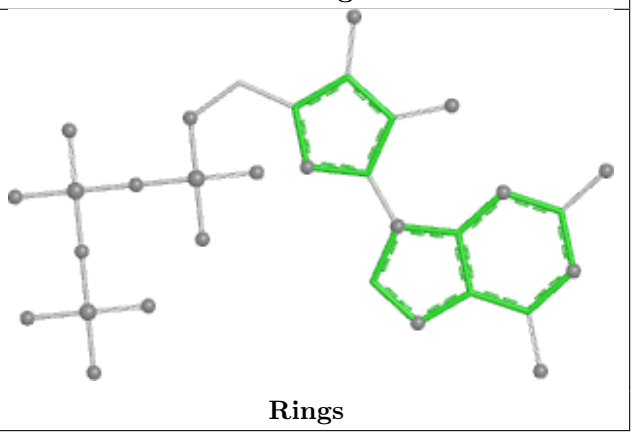
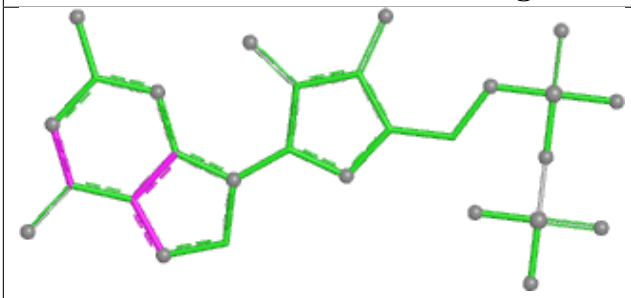


Rings

Ligand GDP SJ 500



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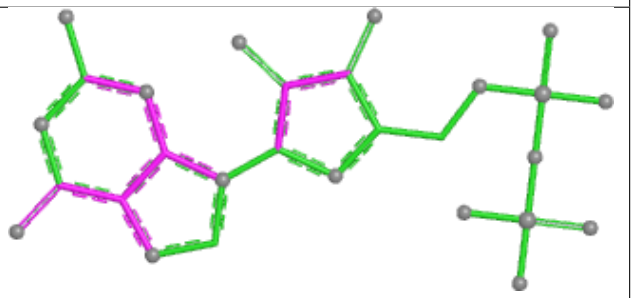

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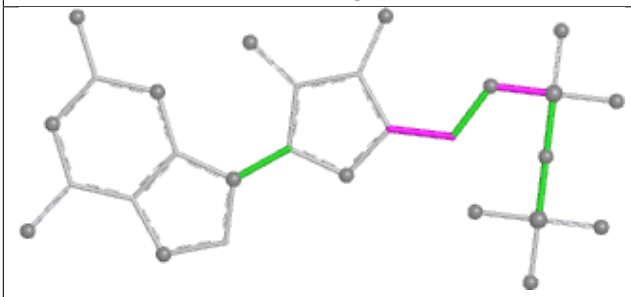

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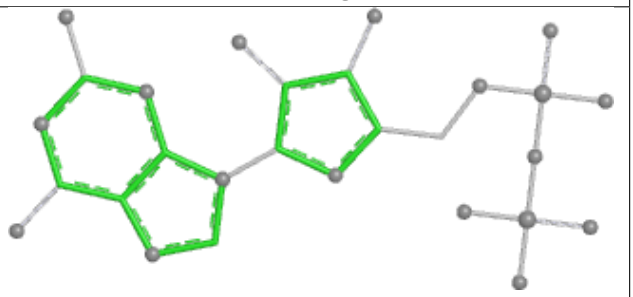
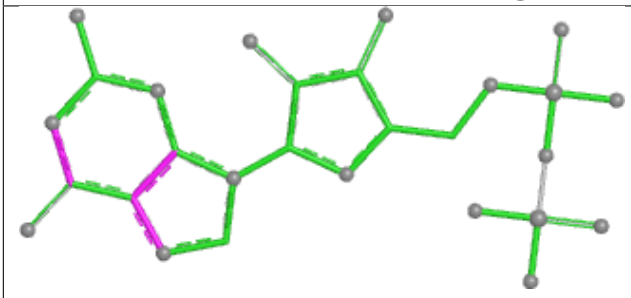


Rings

Ligand GDP AJ 500



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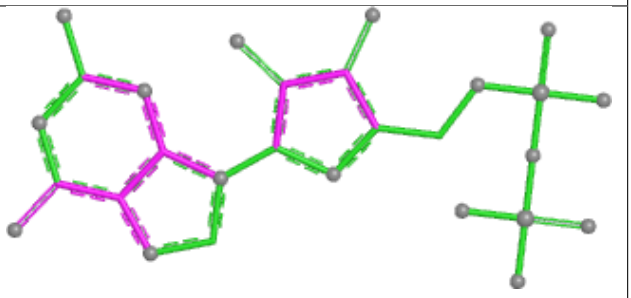

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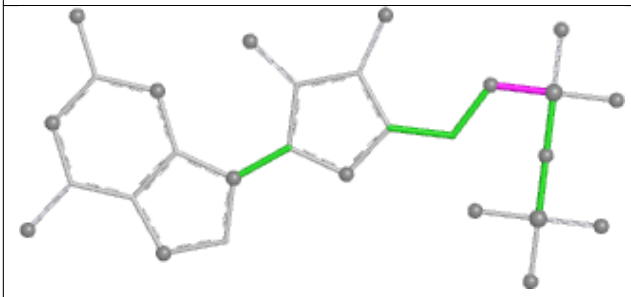

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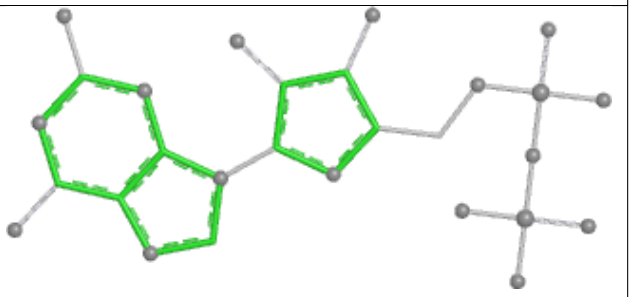
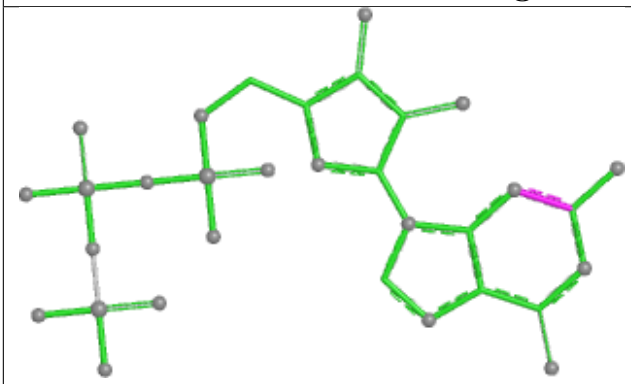


Rings

Ligand GTP JB 501



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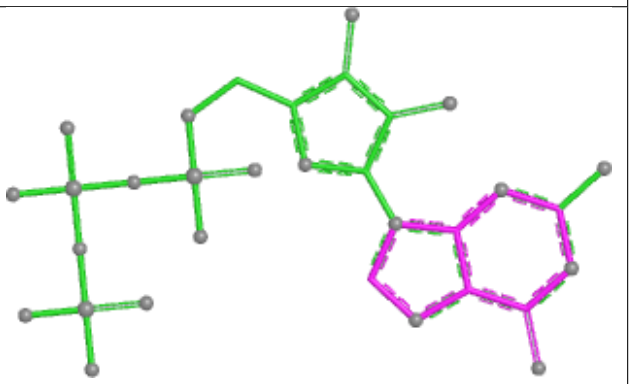

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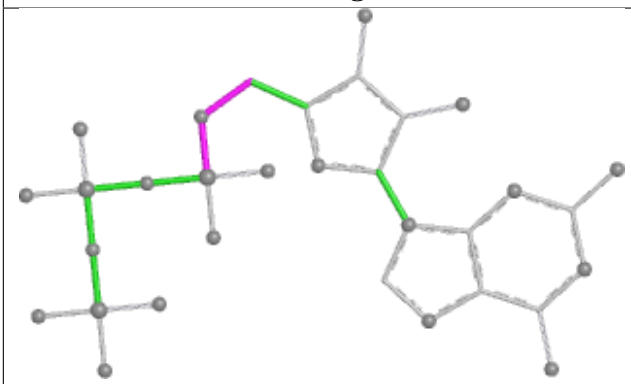

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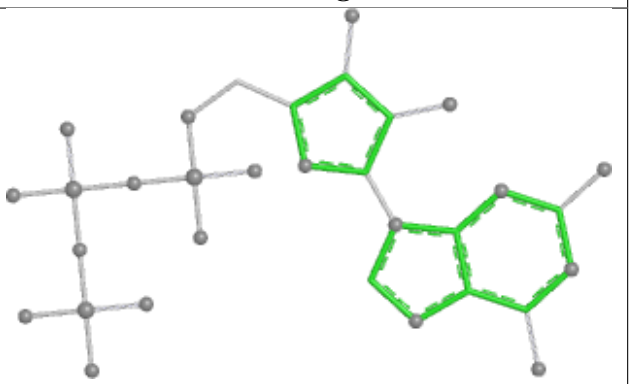
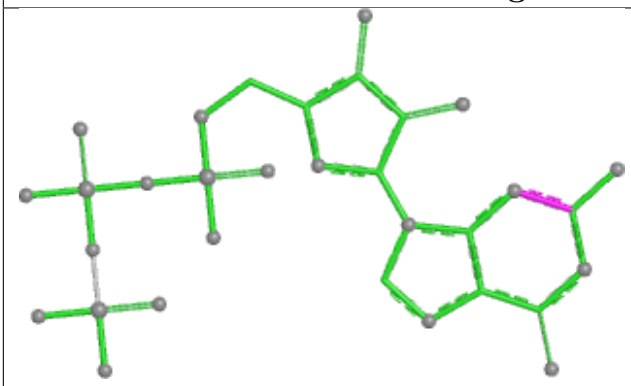


Rings

Ligand GTP HA 501



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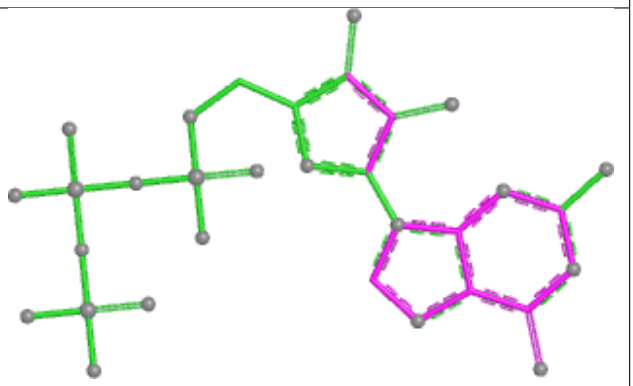

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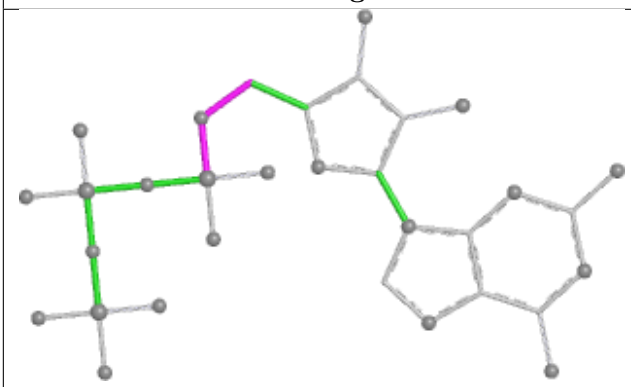

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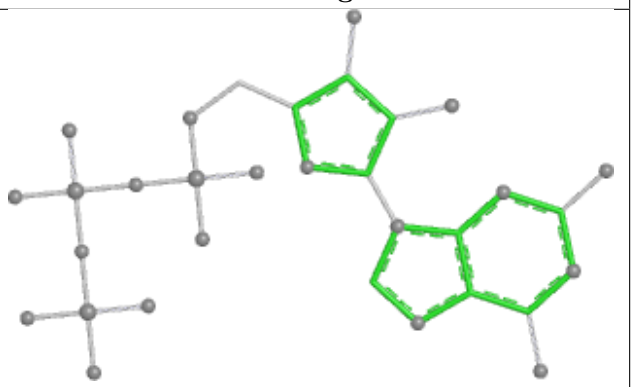

Rings

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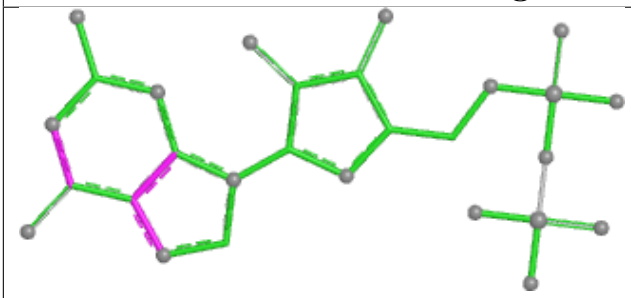

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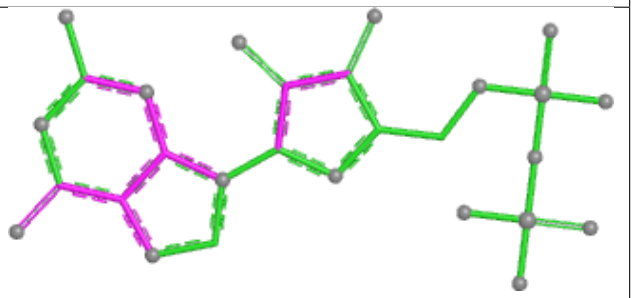

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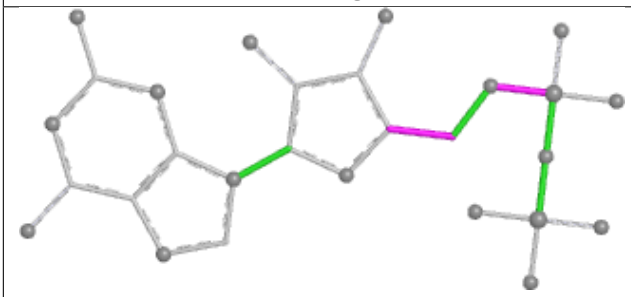

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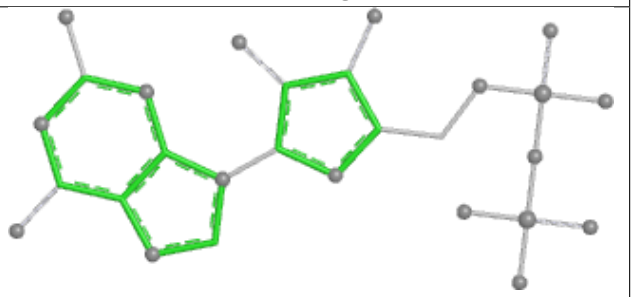
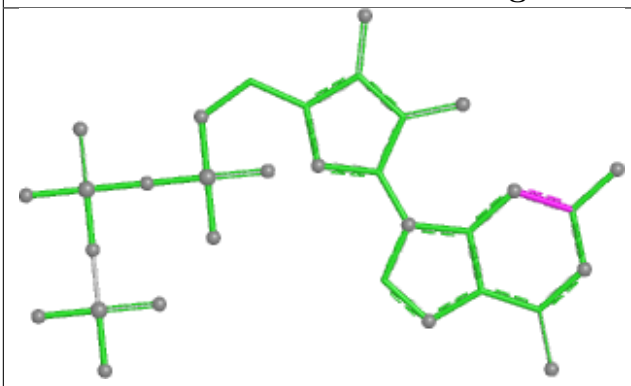


Rings

Ligand GTP BK 501



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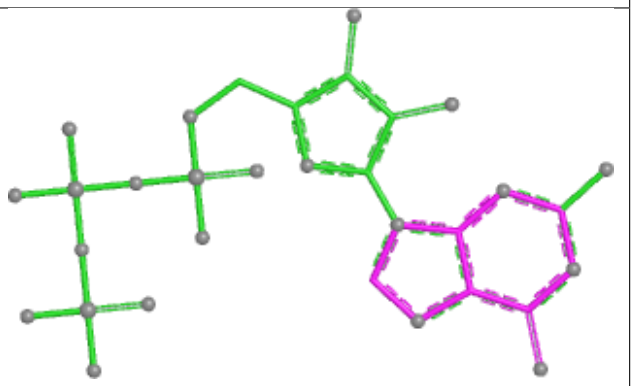
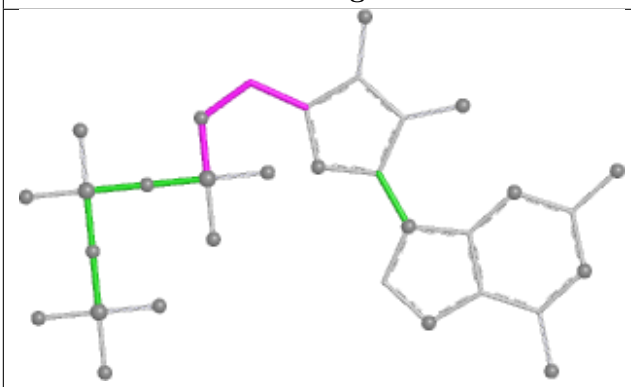


Bond angles



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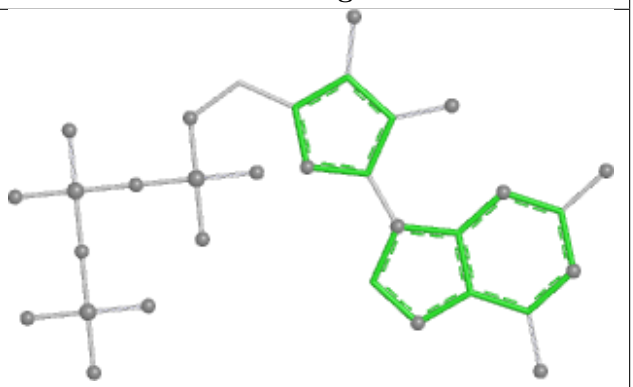
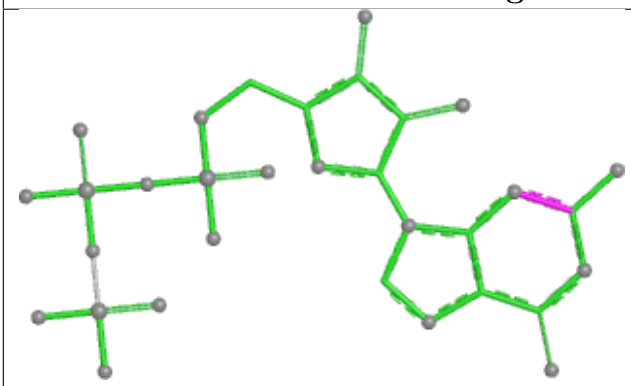


Rings

Ligand GTP PM 501



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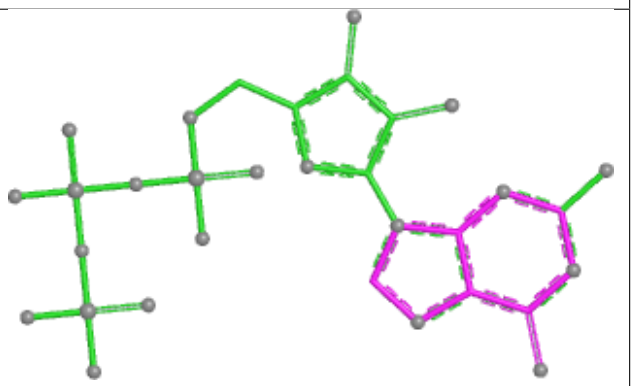

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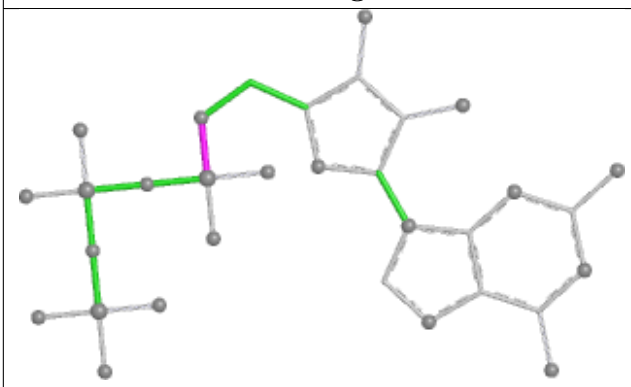

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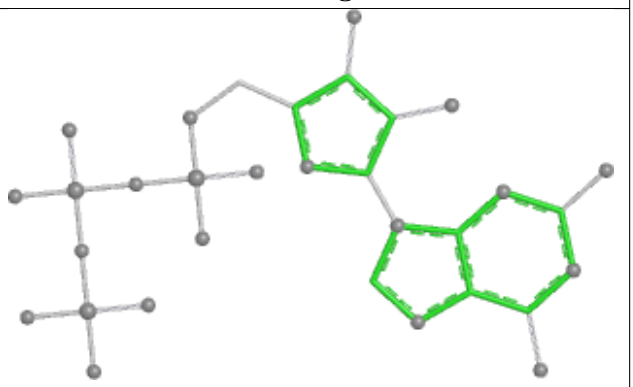
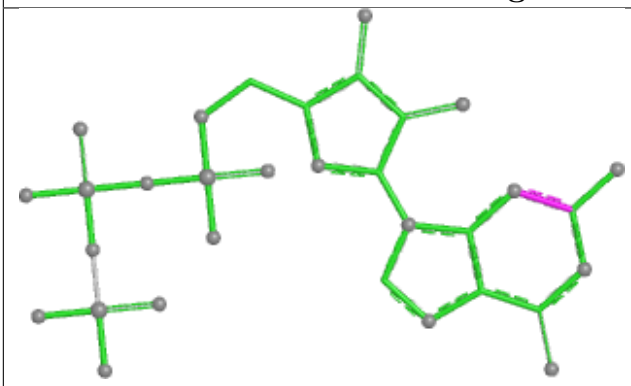


Rings

Ligand GTP NA 501



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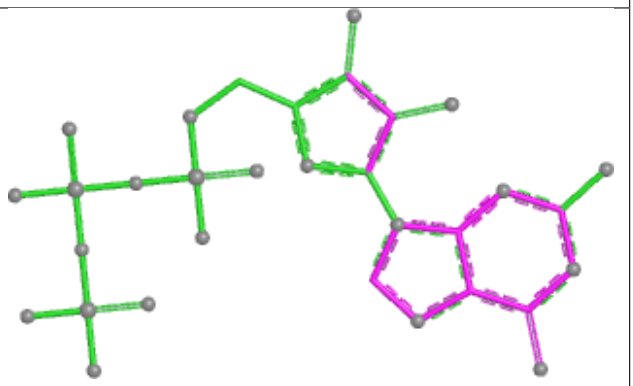
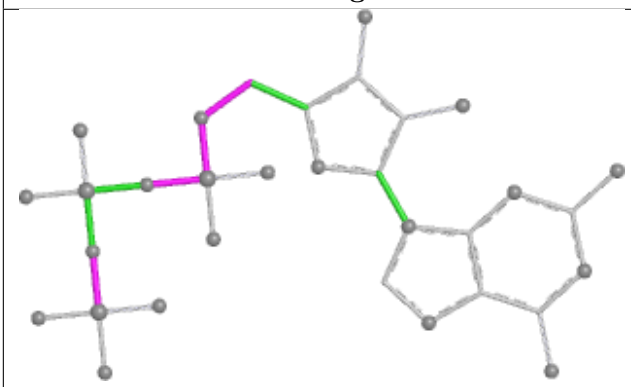


Bond angles



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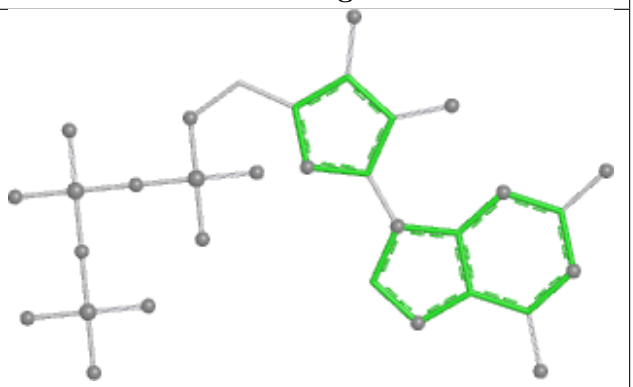
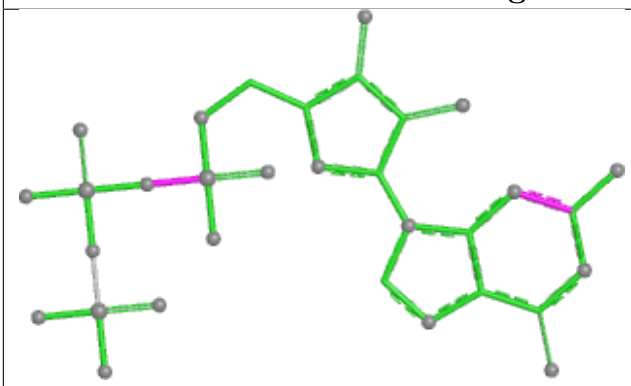


Rings

Ligand GTP DD 501



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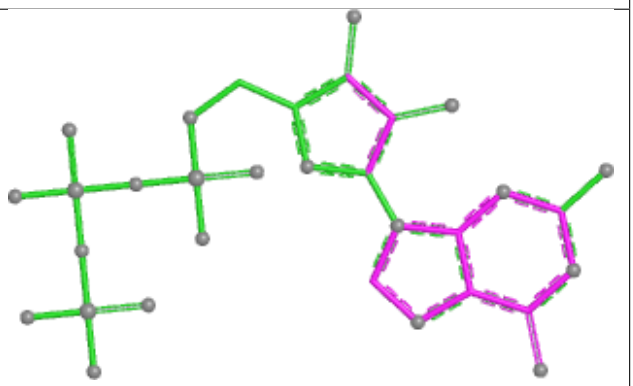
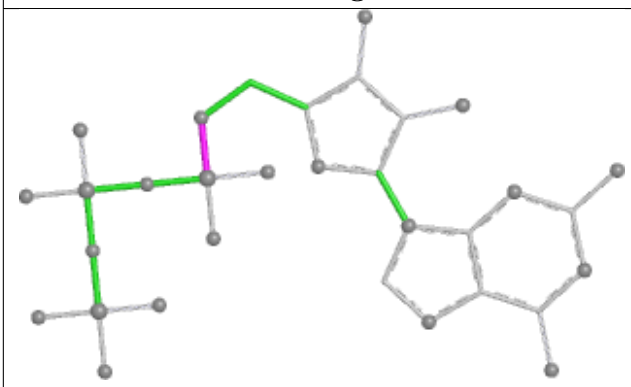
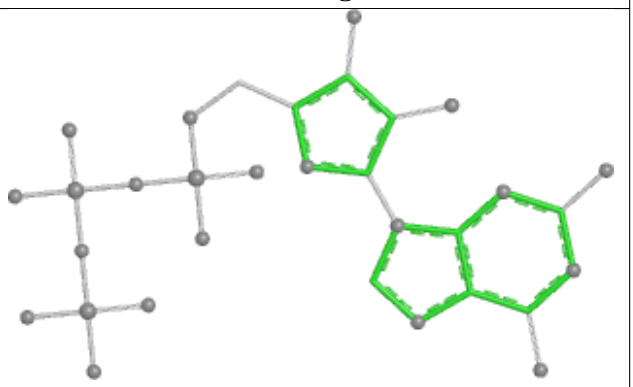


Bond angles

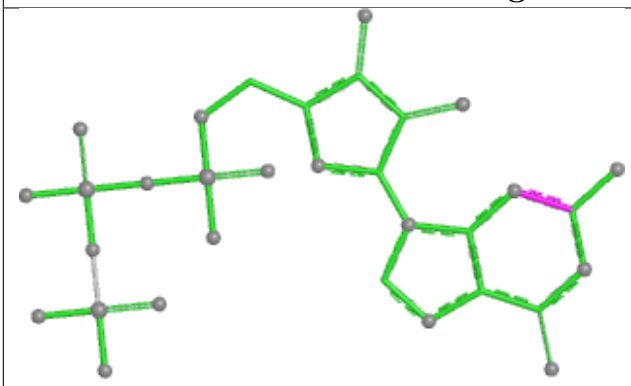


Torsions

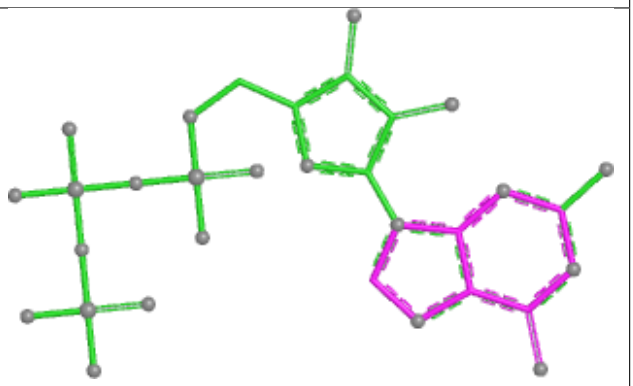


Rings

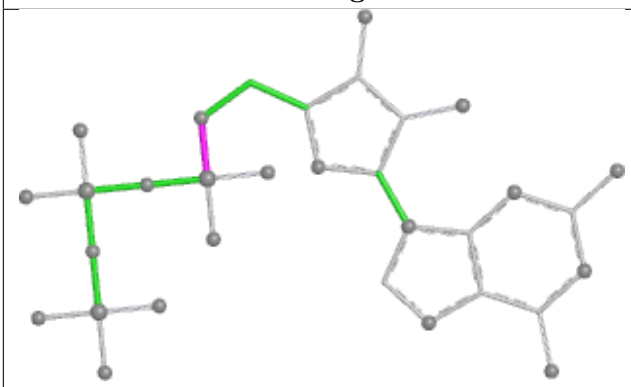
Ligand GTP AK 501



Bond lengths



Bond angles



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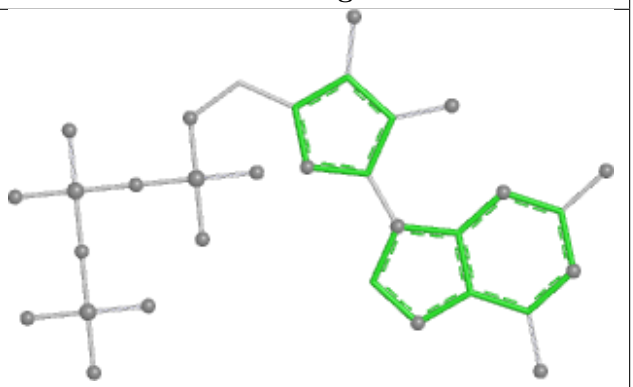
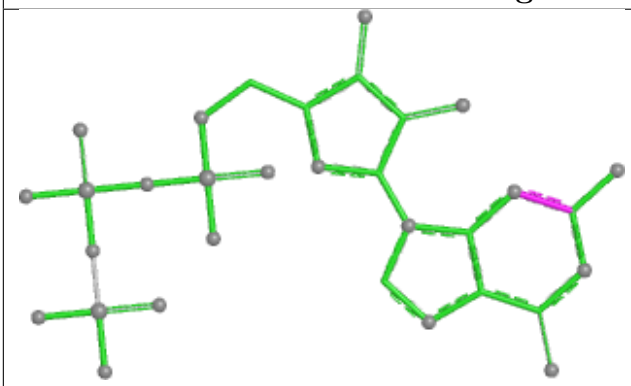


Rings

Ligand GTP JL 501



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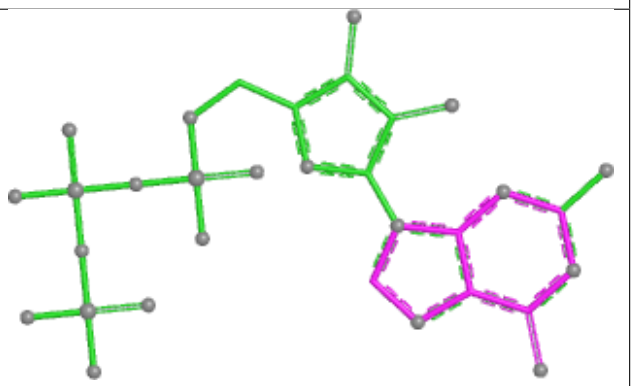

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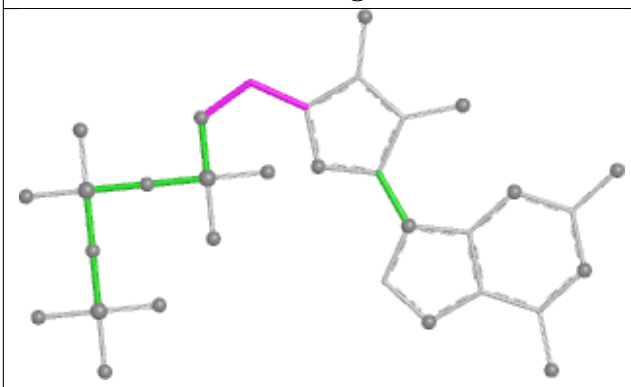

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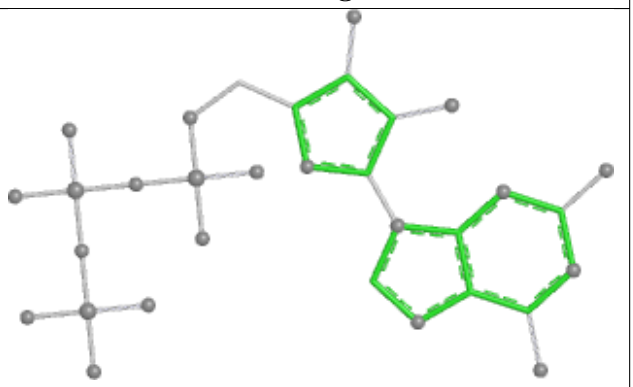
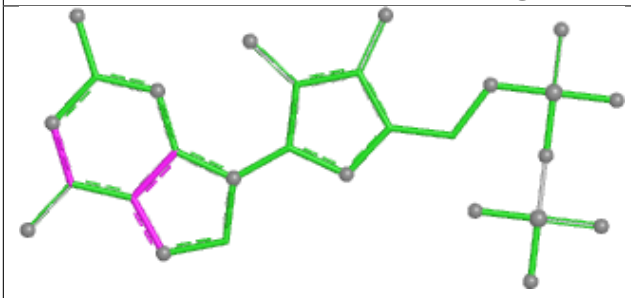
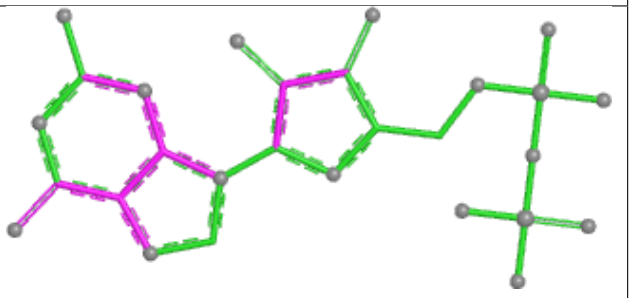
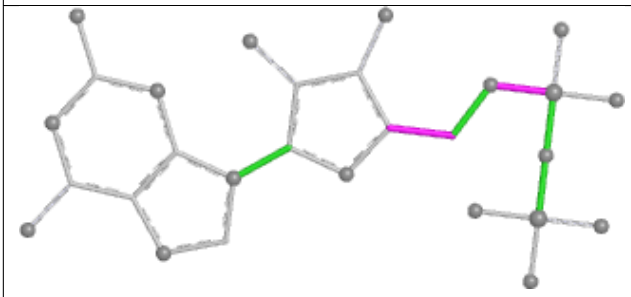
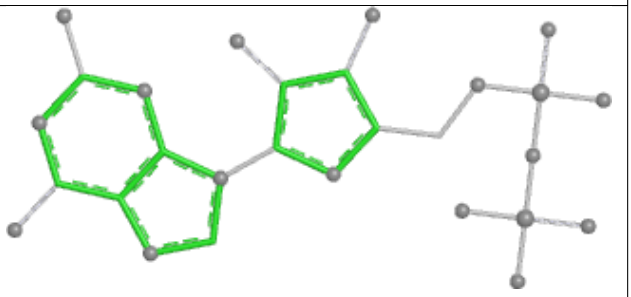


Rings

Ligand GDP KI 500	
 Bond lengths	 Bond angles
 Torsions	 Rings

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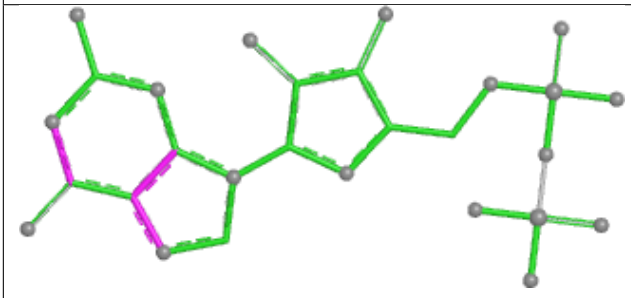
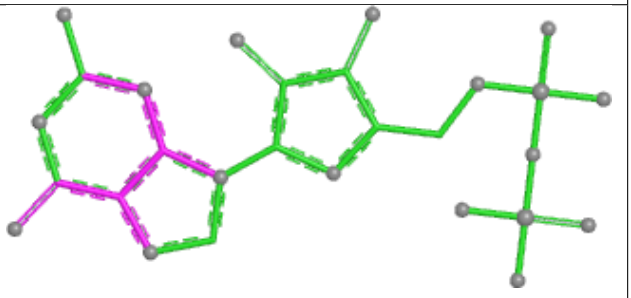
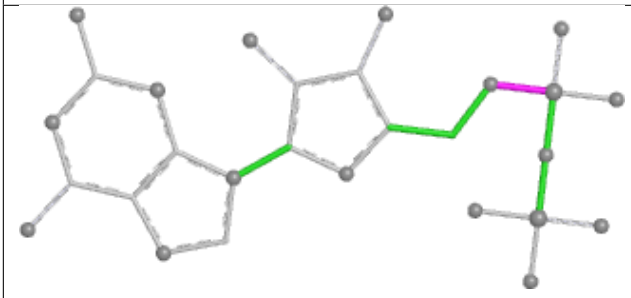
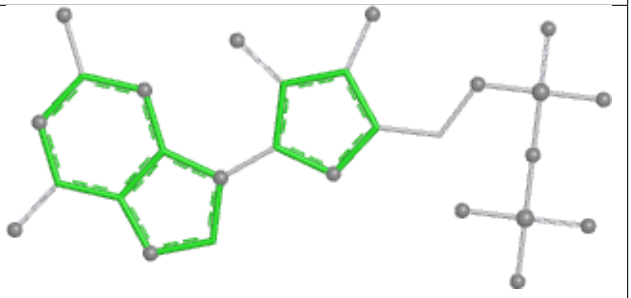
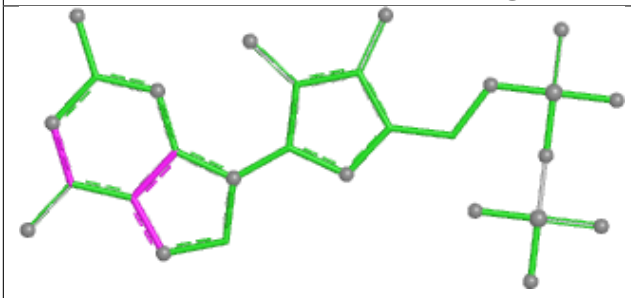
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GDP MD 500



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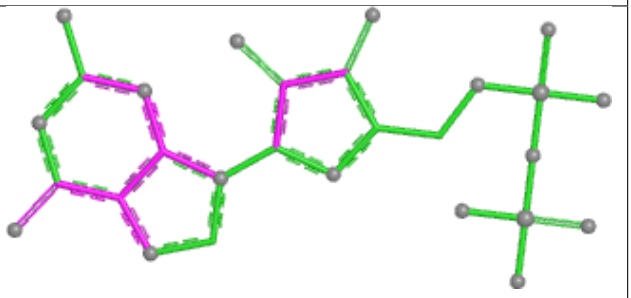

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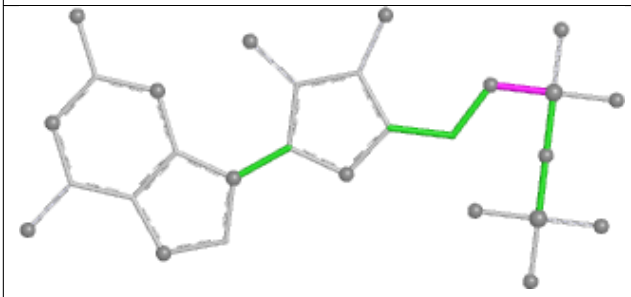

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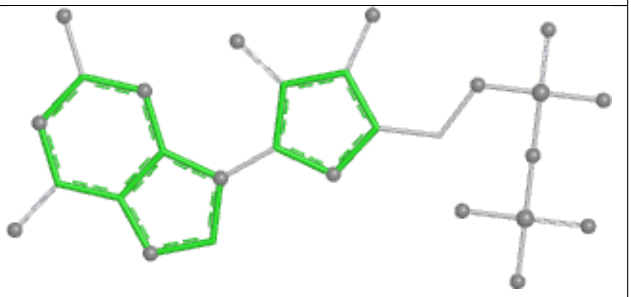
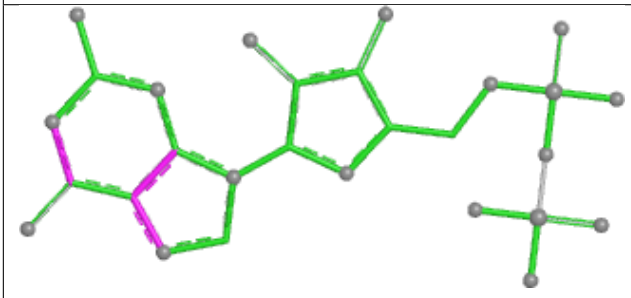


Rings

Ligand GDP OD 500



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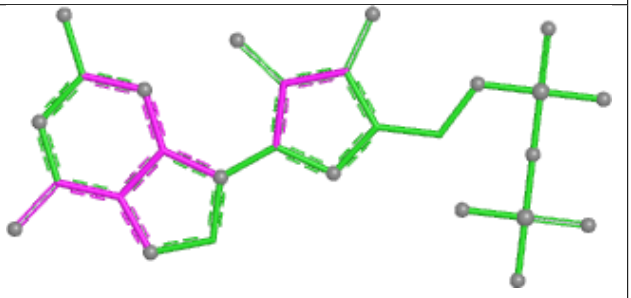

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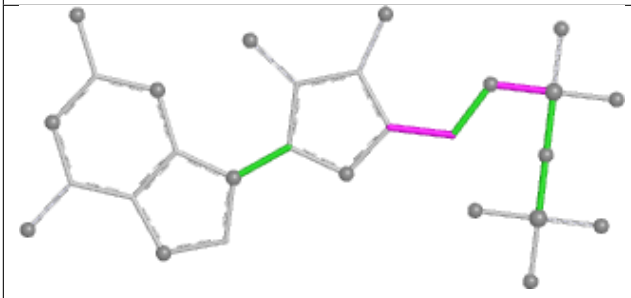

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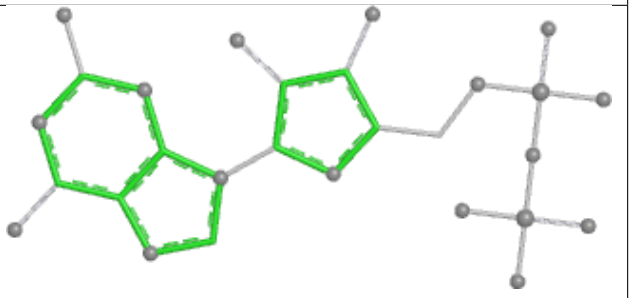
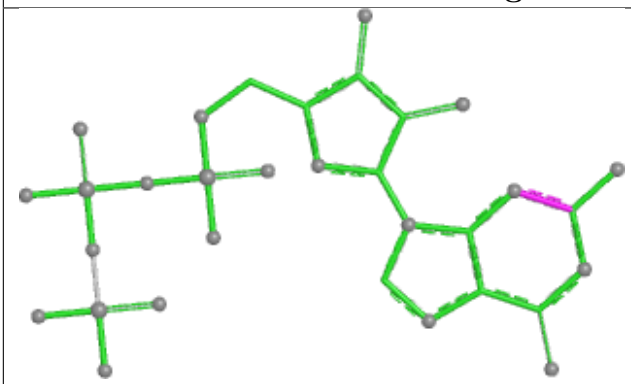


Rings

Ligand GTP AM 501



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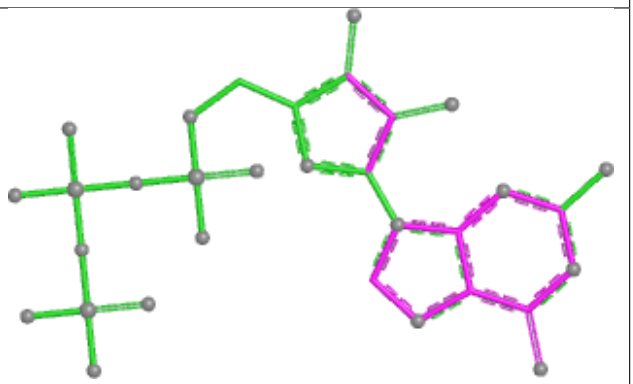

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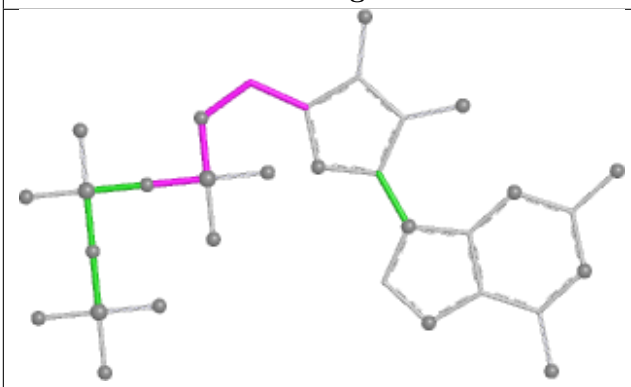

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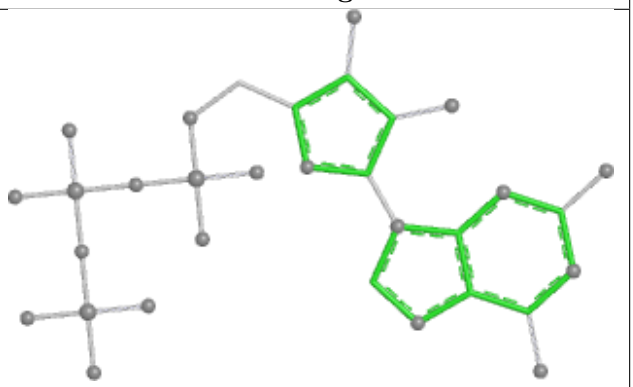
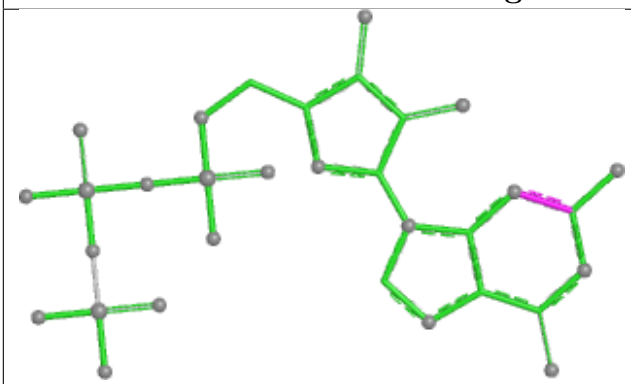


Rings

Ligand GTP NM 501



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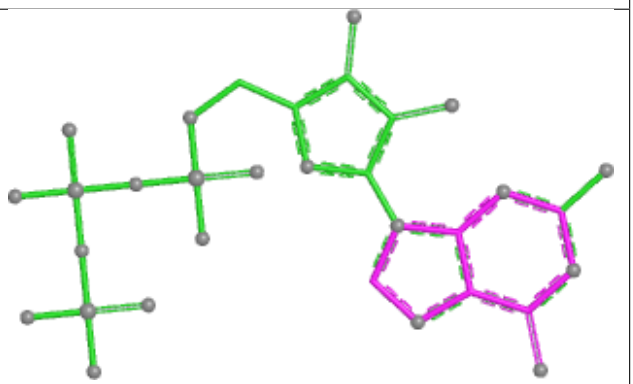

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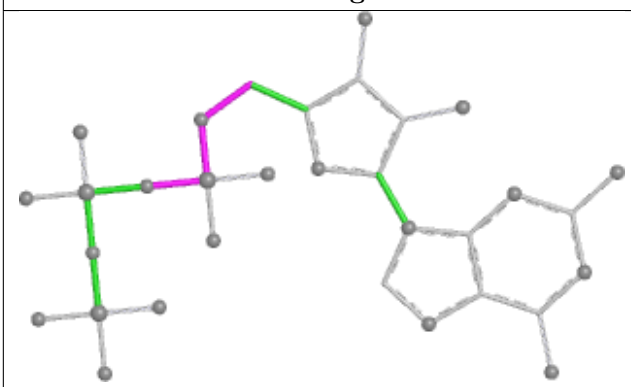

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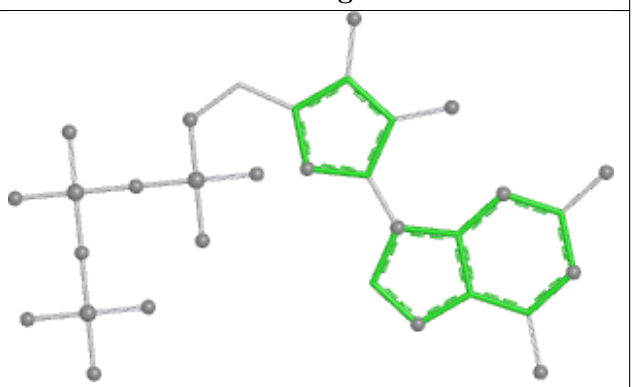
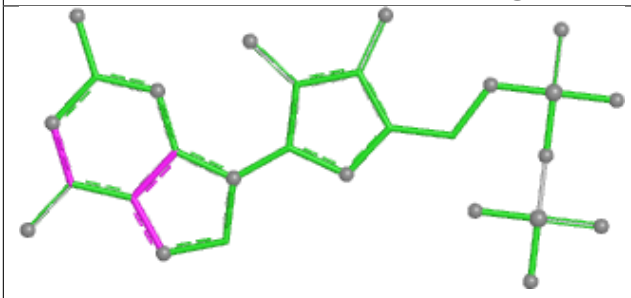


Rings

Ligand GDP EH 500



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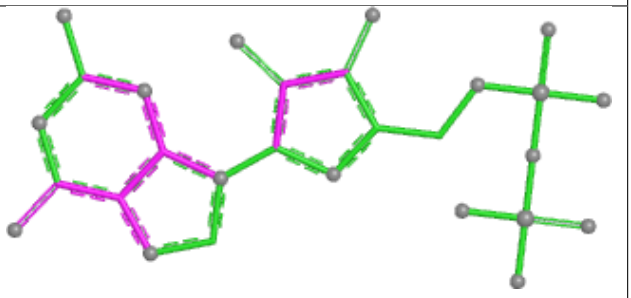

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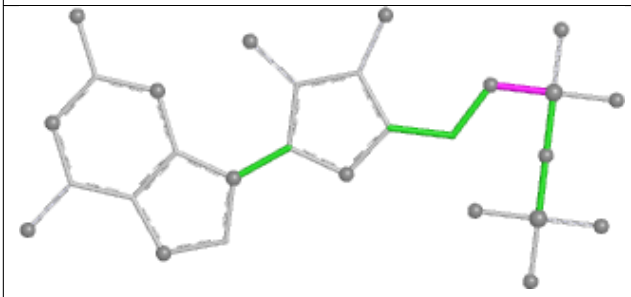

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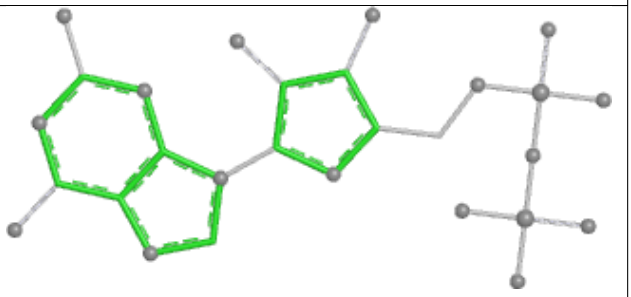
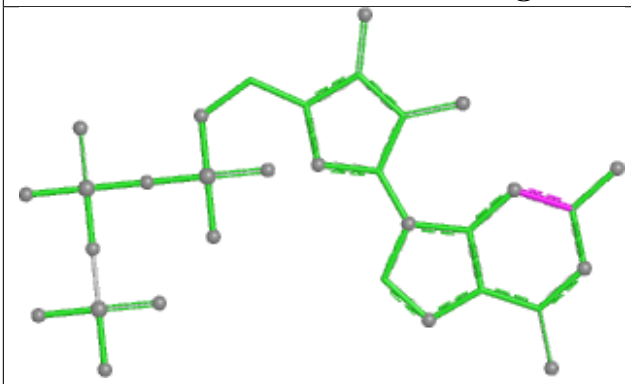


Rings

Ligand GTP GI 501



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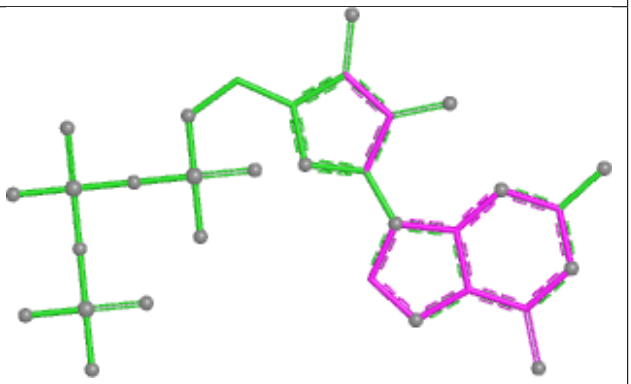

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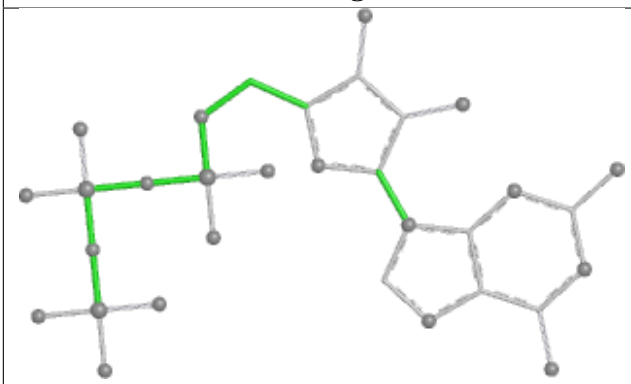

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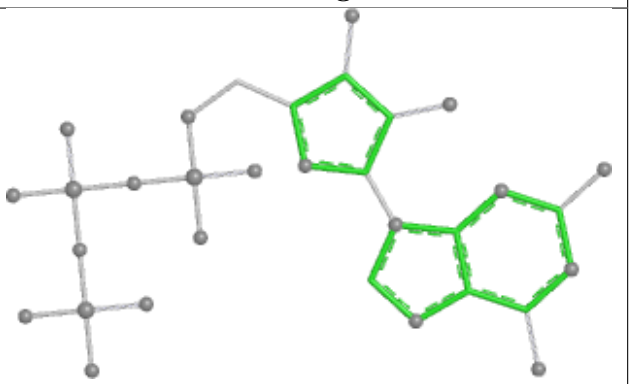
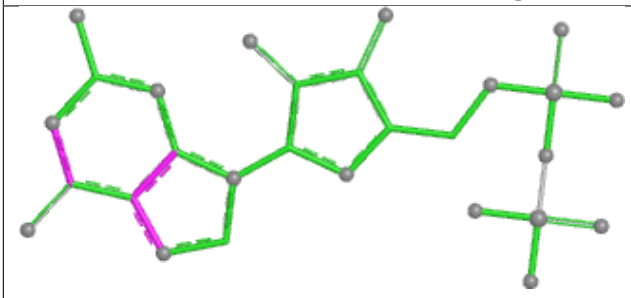


Rings

Ligand GDP UL 500



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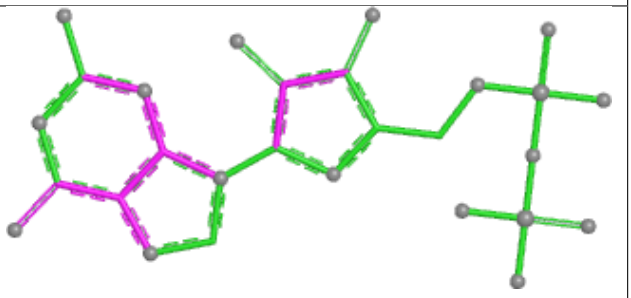

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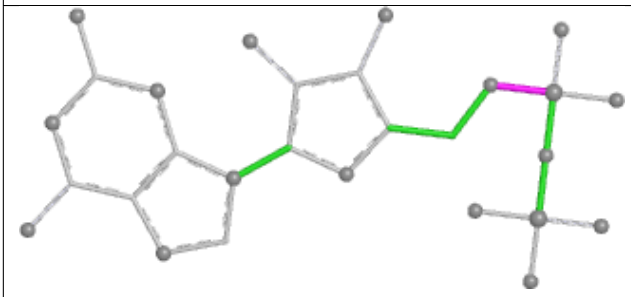

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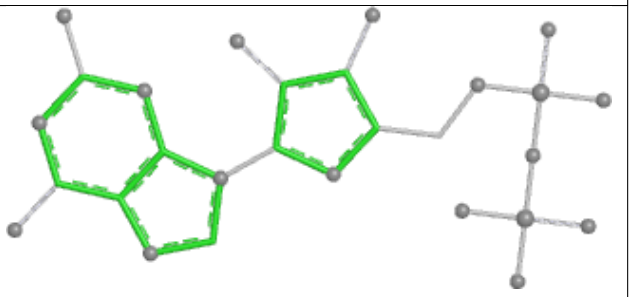
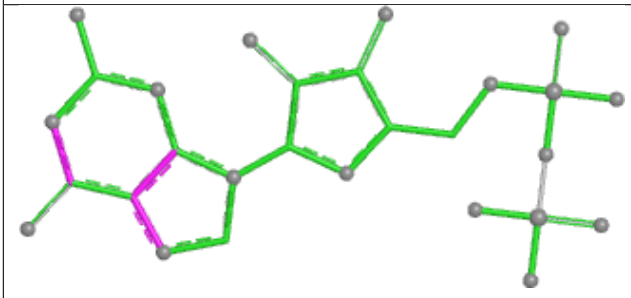


Rings

Ligand GDP QE 500



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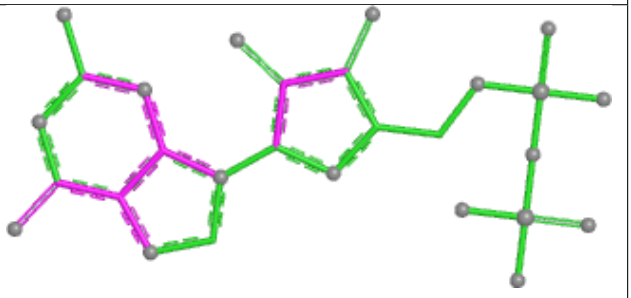

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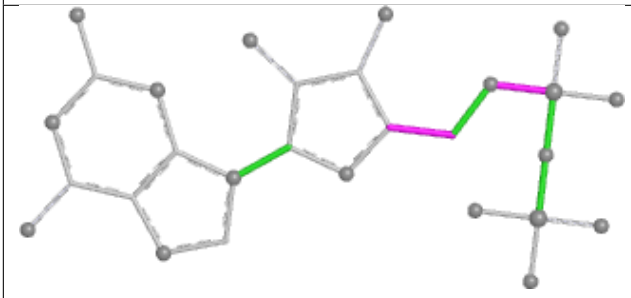

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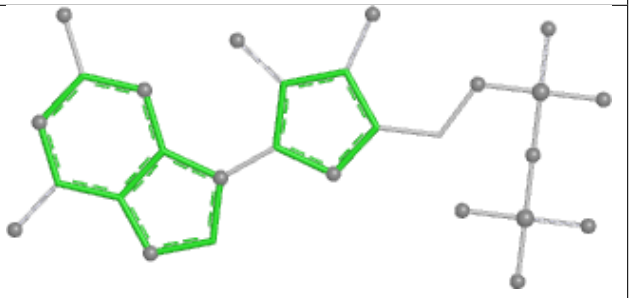
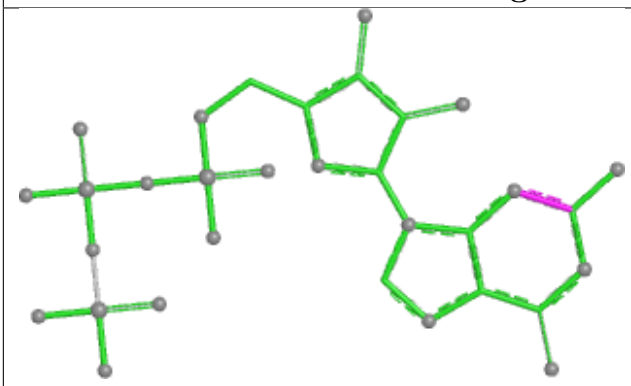


Rings

Ligand GTP WI 501



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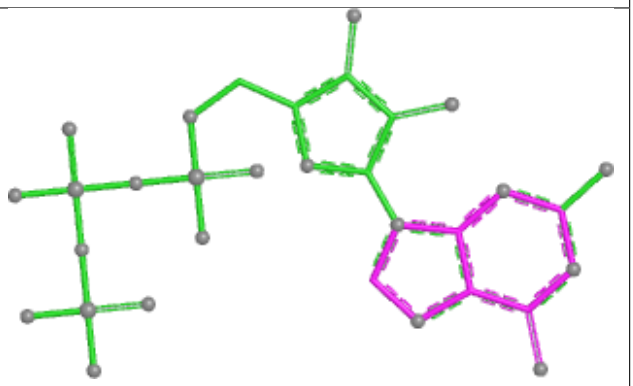

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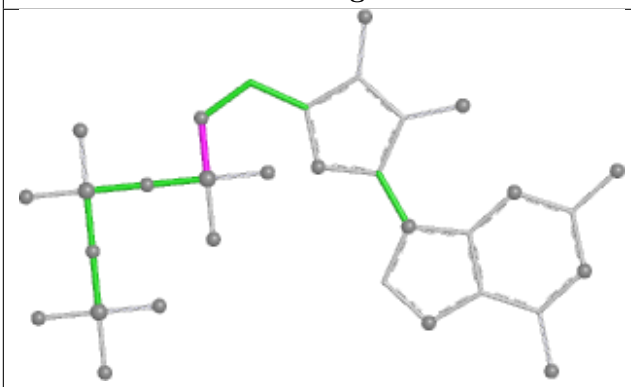

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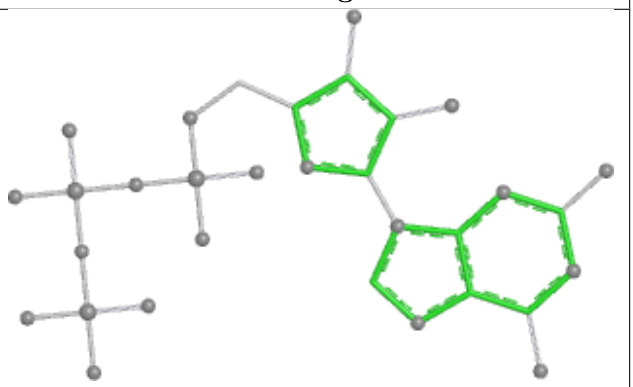
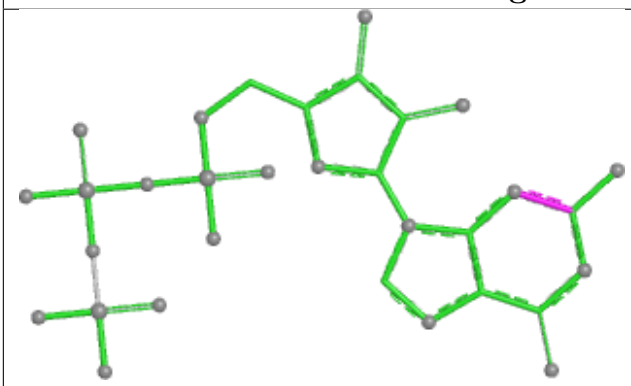
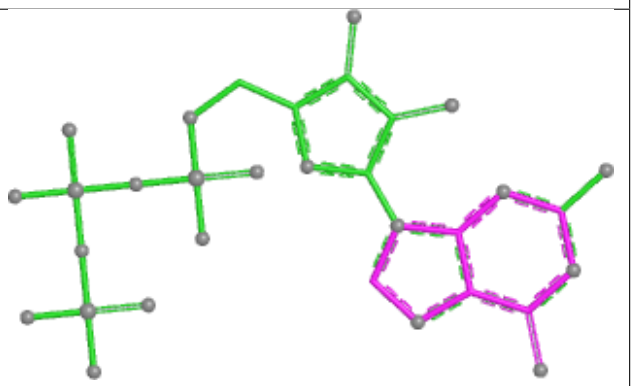


Rings

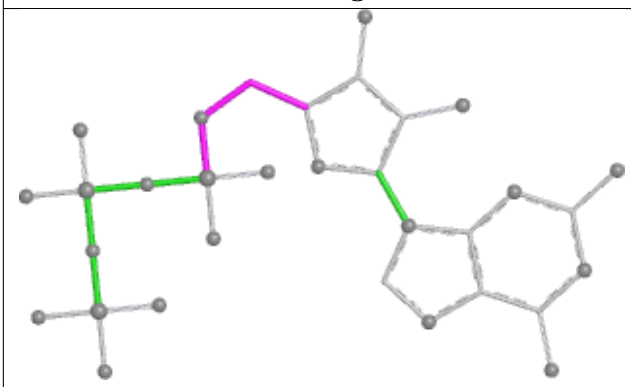
Ligand GTP PG 501



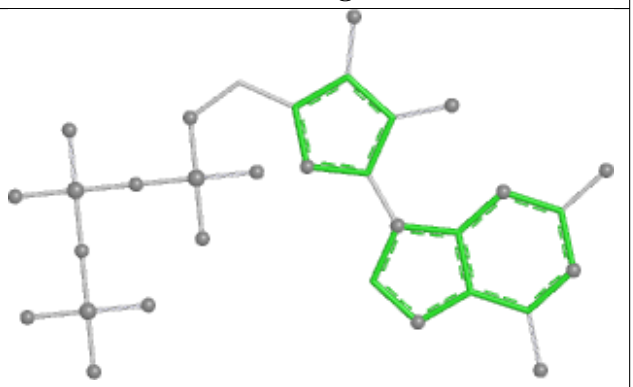
Bond lengths



Bond angles

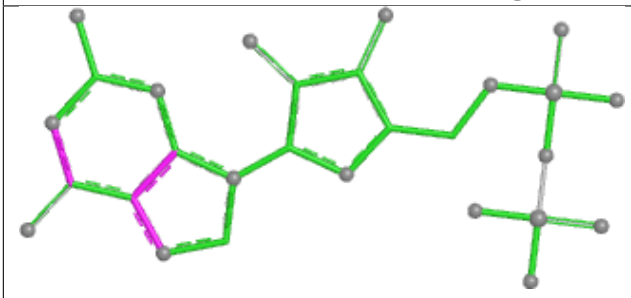


Torsions



Rings

Ligand GDP RC 500



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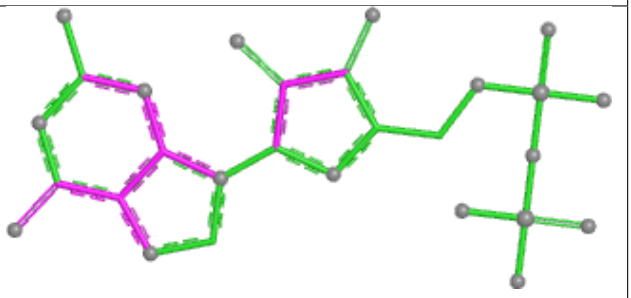

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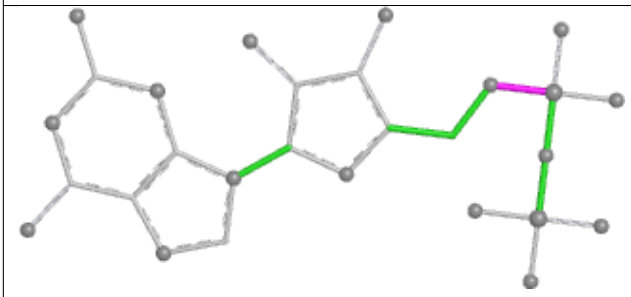

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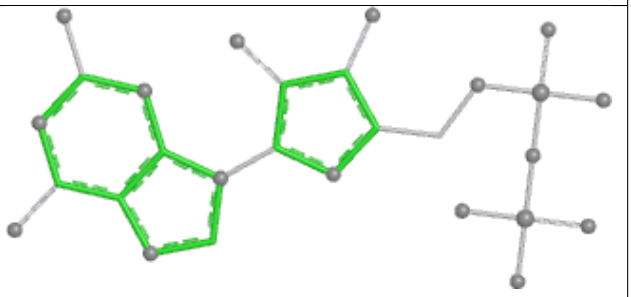
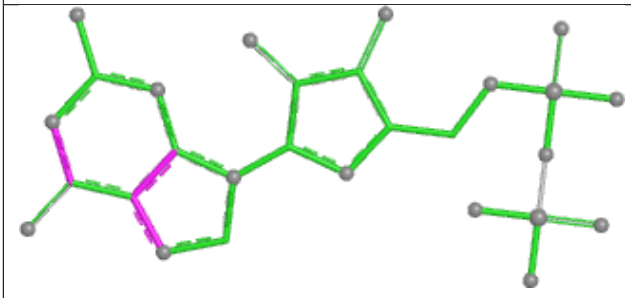


Rings

Ligand GDP WF 500



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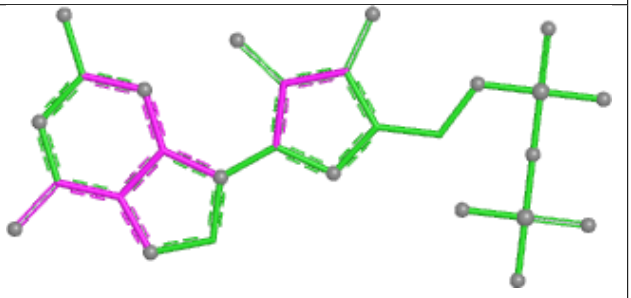

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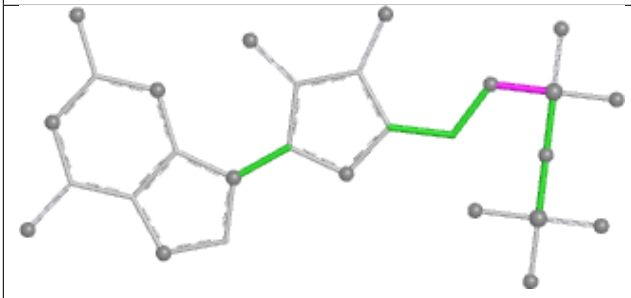

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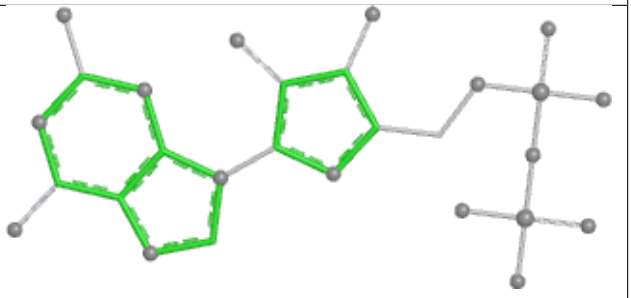
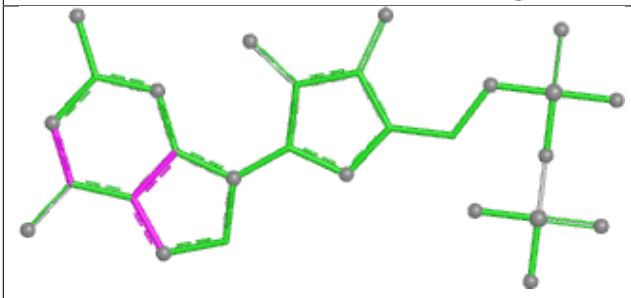


Rings

Ligand GDP GL 500



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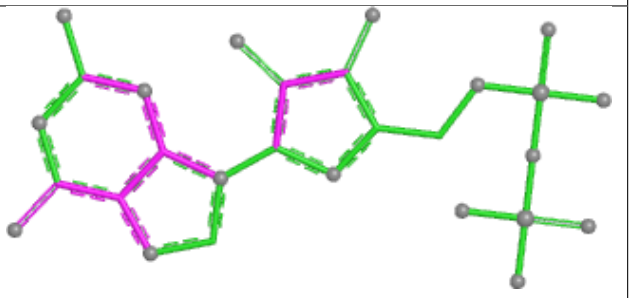

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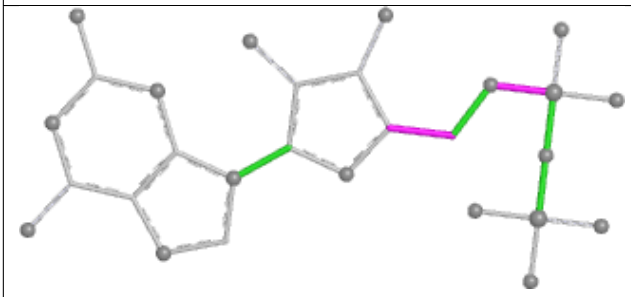

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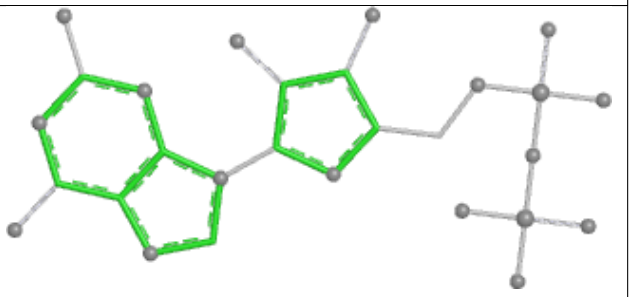
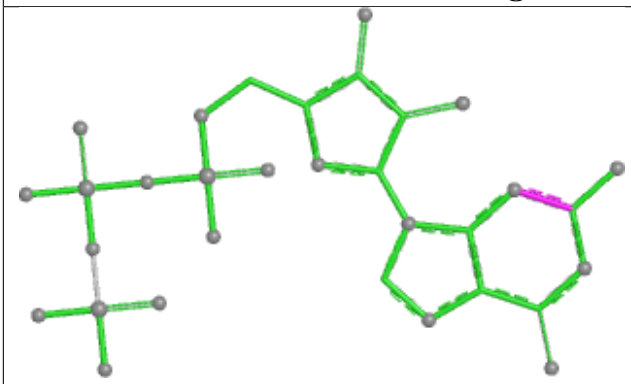


Rings

Ligand GTP GG 501



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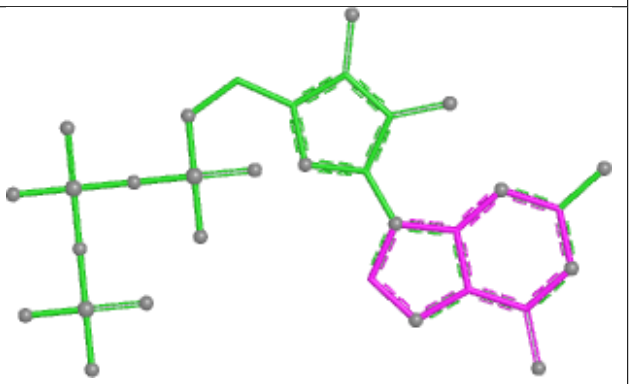

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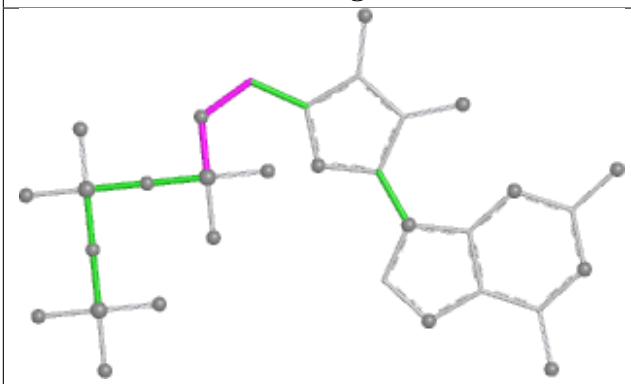

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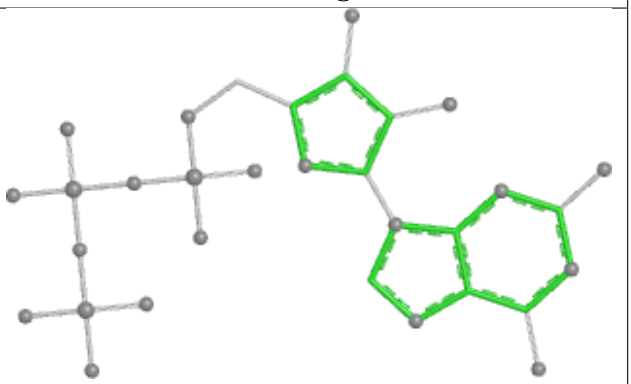
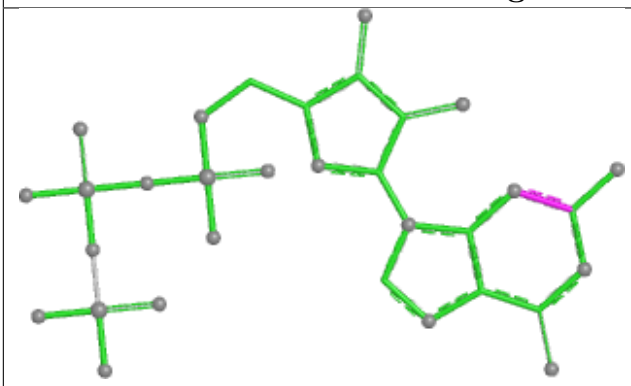


Rings

Ligand GTP HG 501



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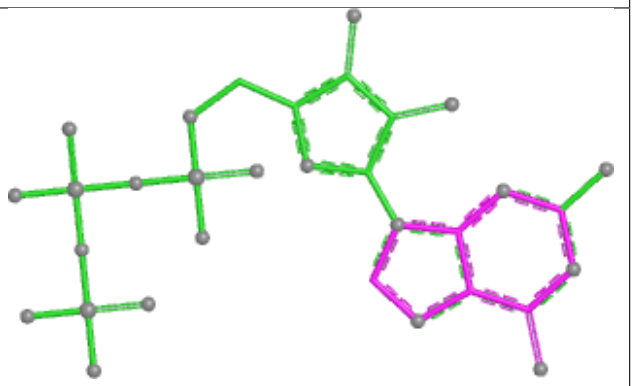

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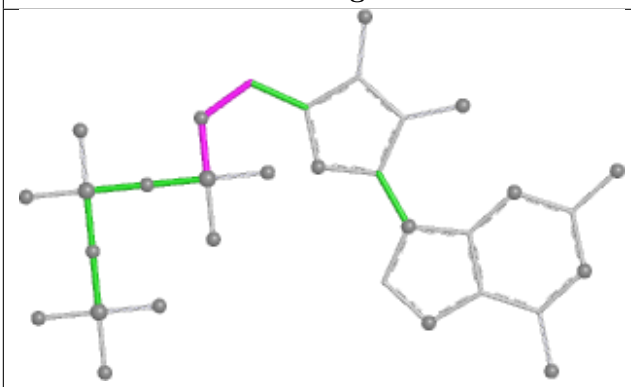

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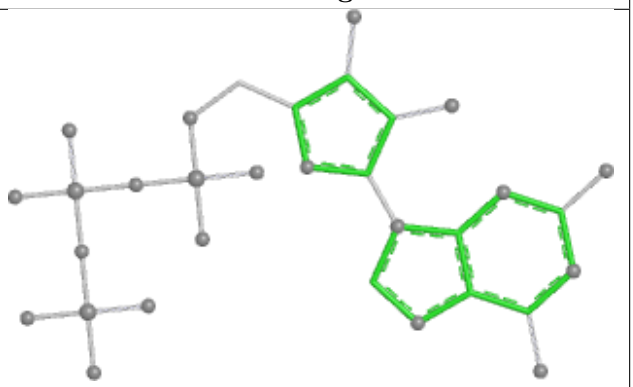
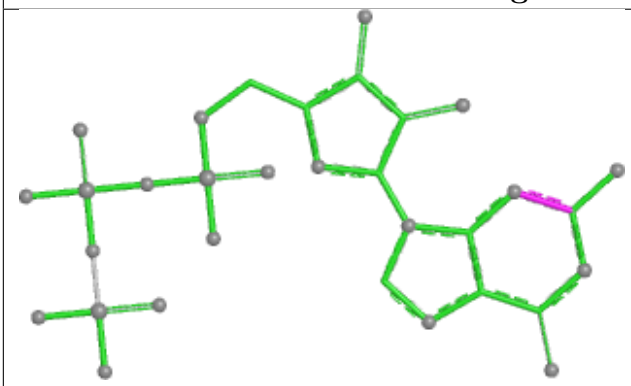


Rings

Ligand GTP VA 501



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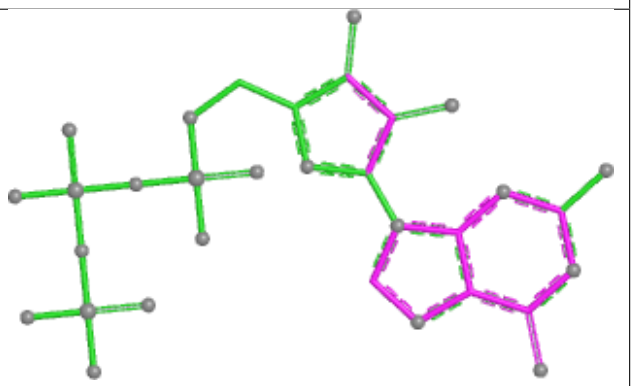

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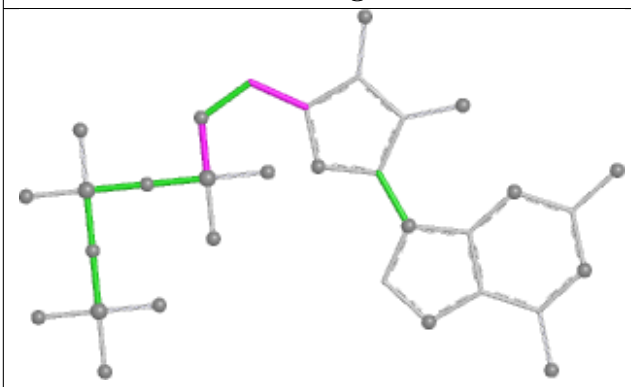

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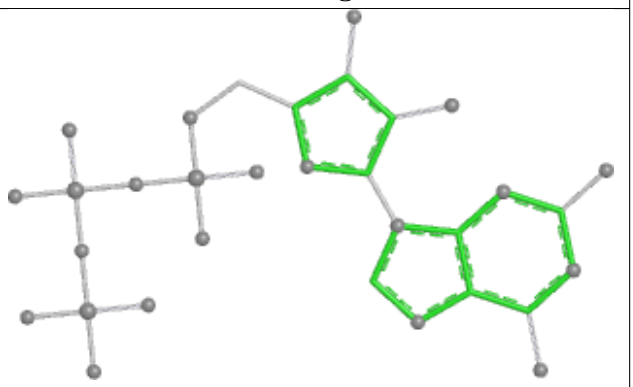
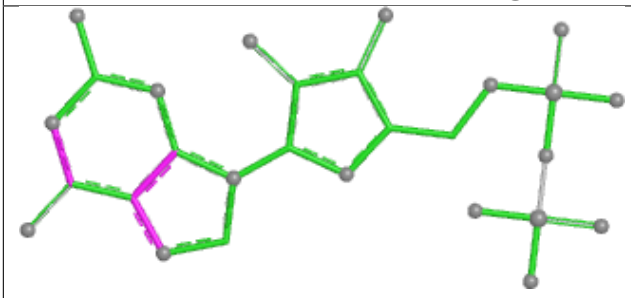


Rings

Ligand GDP VH 500



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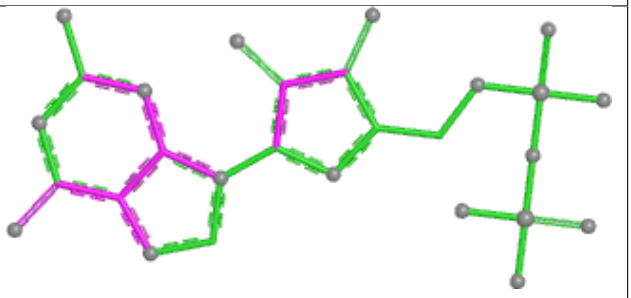

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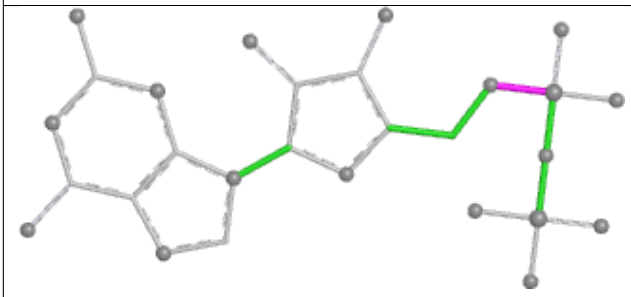

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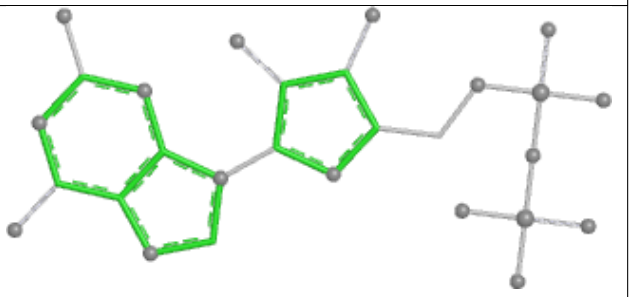
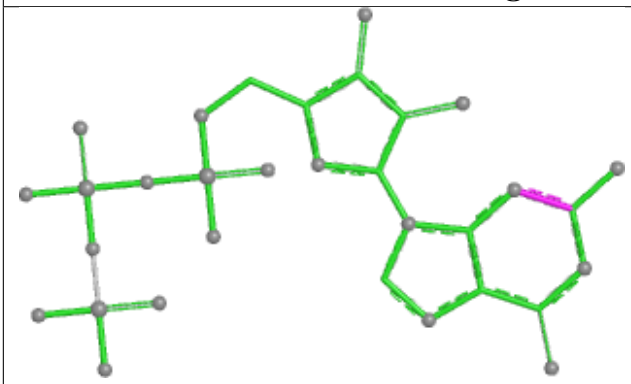


Rings

Ligand GTP MK 501



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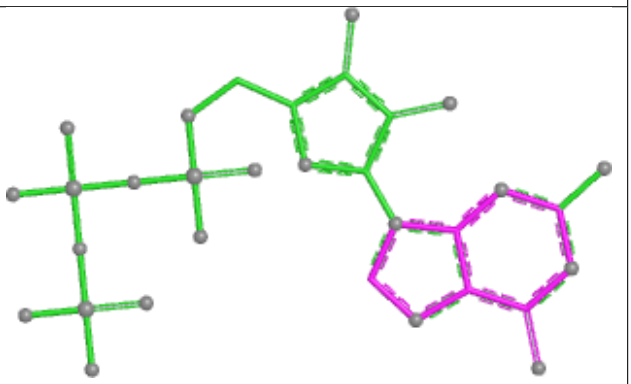

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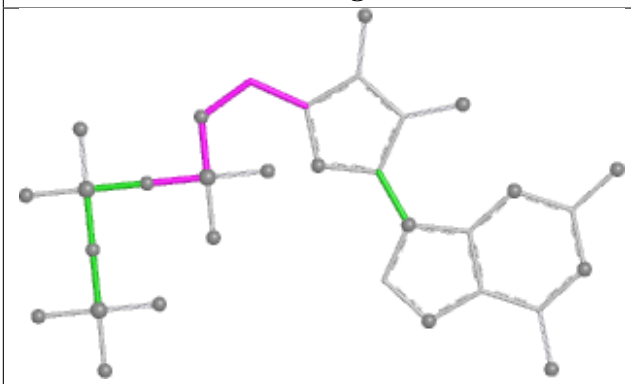

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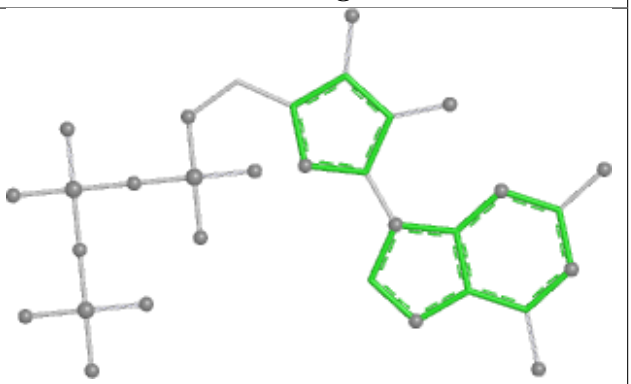
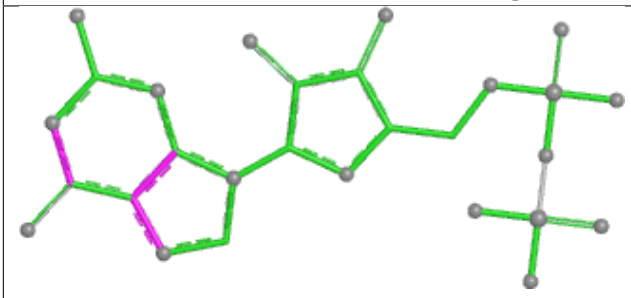


Rings

Ligand GDP ND 500



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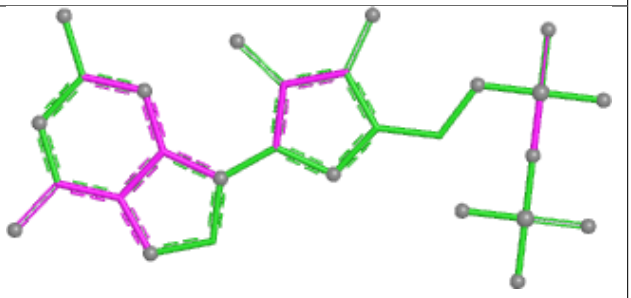

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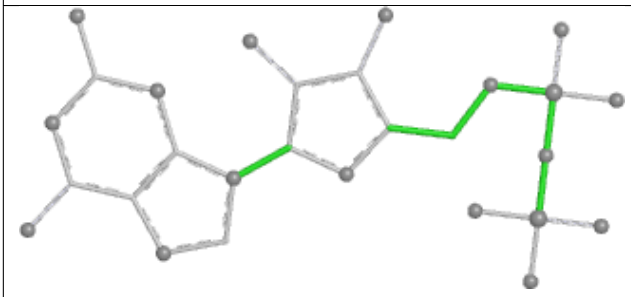

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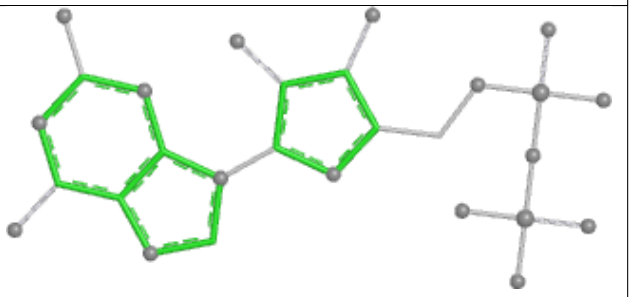
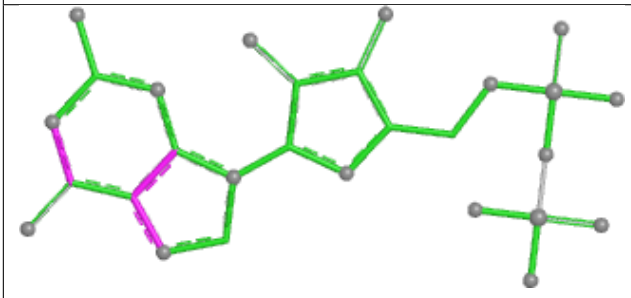


Rings

Ligand GDP LO 500



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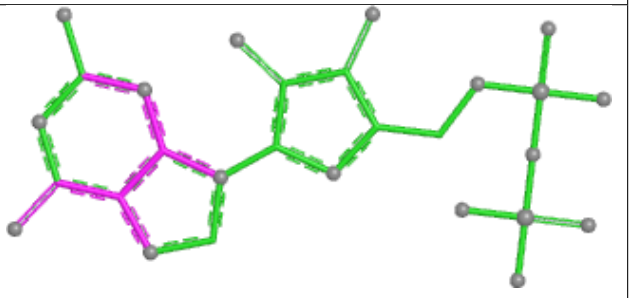

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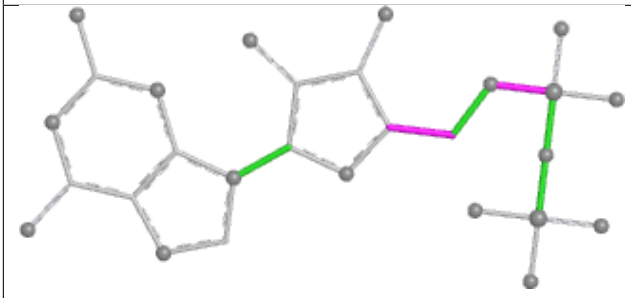

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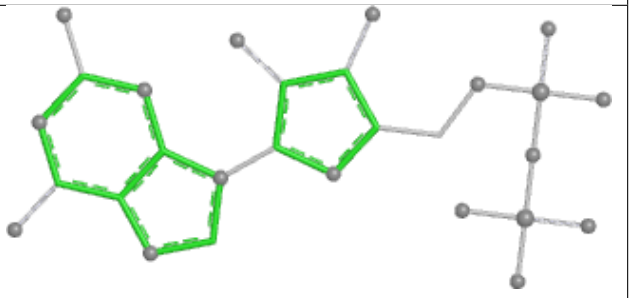
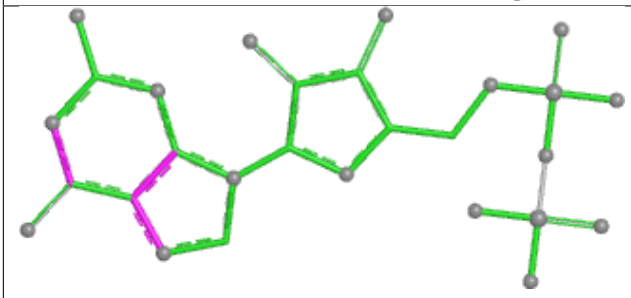


Rings

Ligand GDP TD 500



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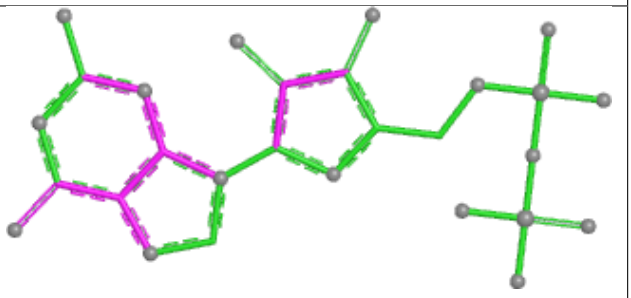

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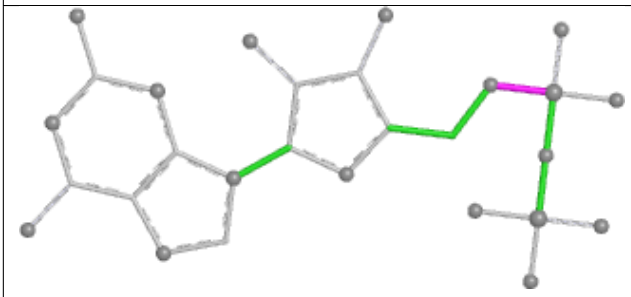

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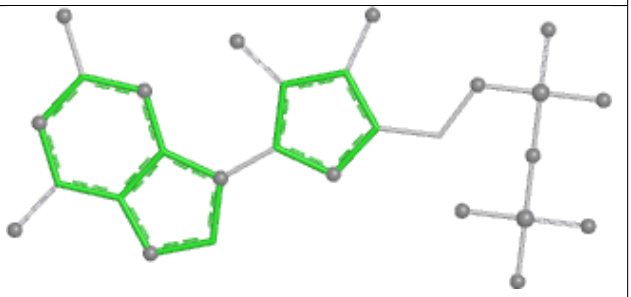
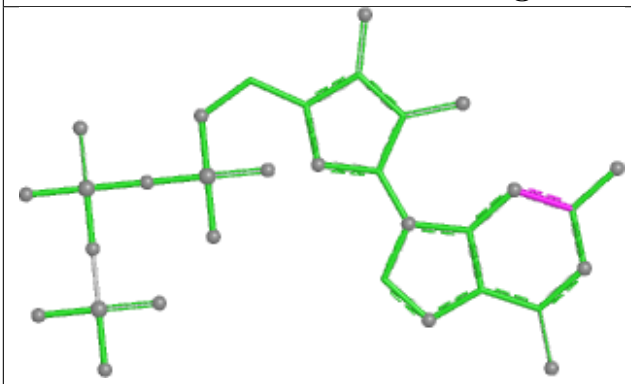


Rings

Ligand GTP CJ 501



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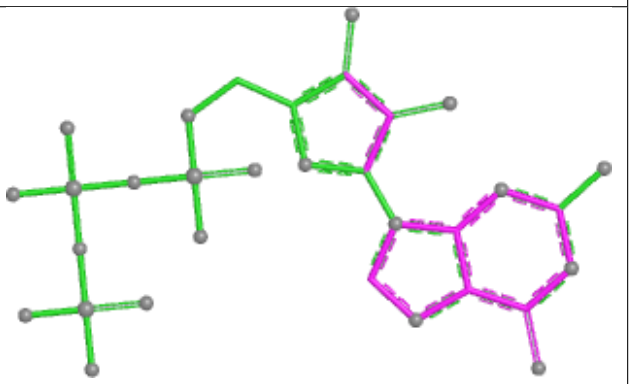
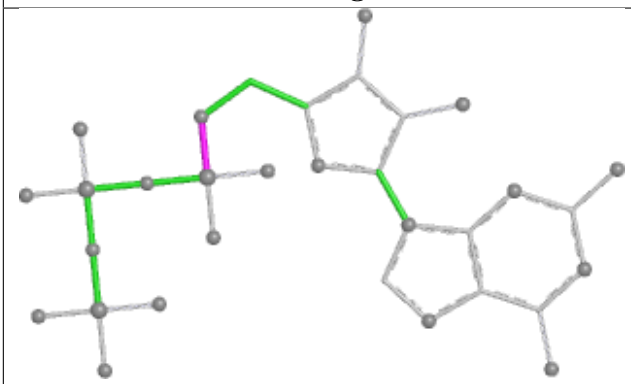


Bond angles



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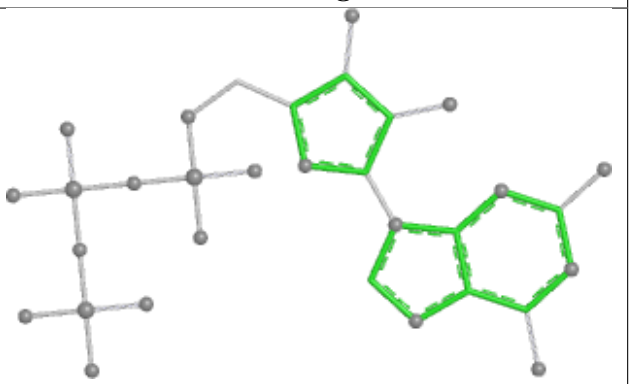
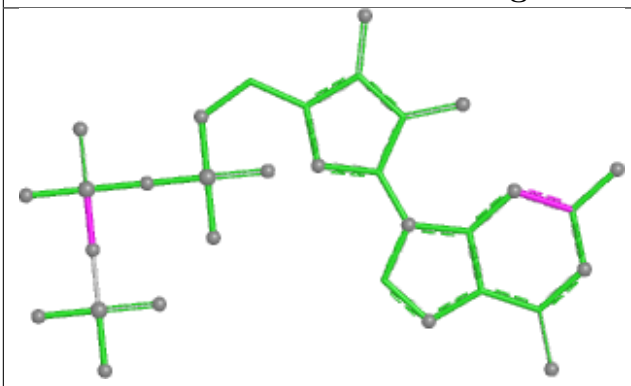


Rings

Ligand GTP EK 501



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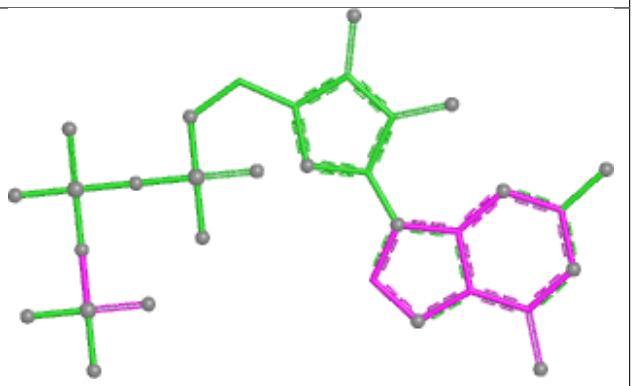
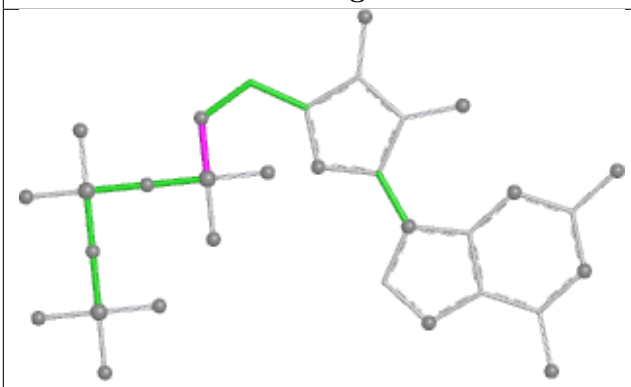


Bond angles



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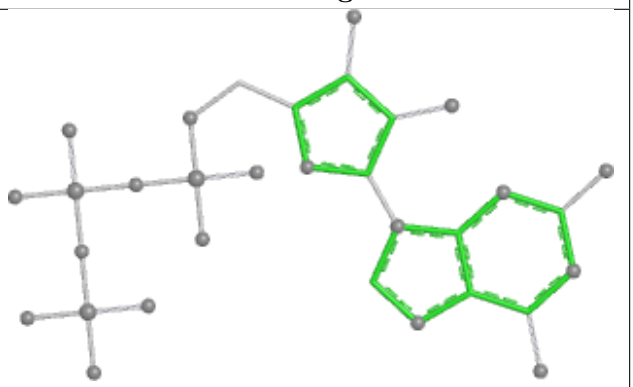
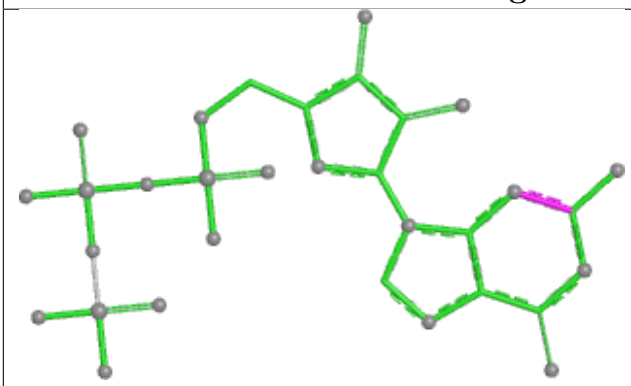


Rings

Ligand GTP OC 501



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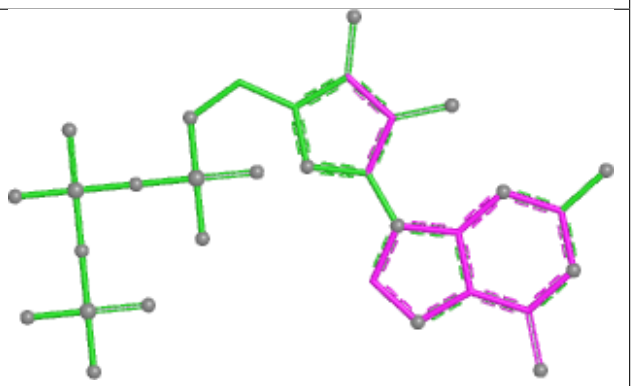

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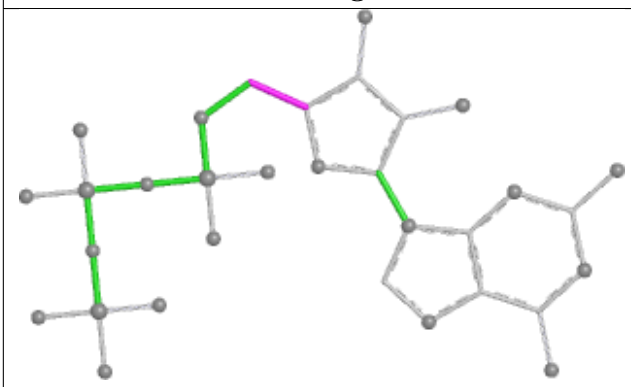
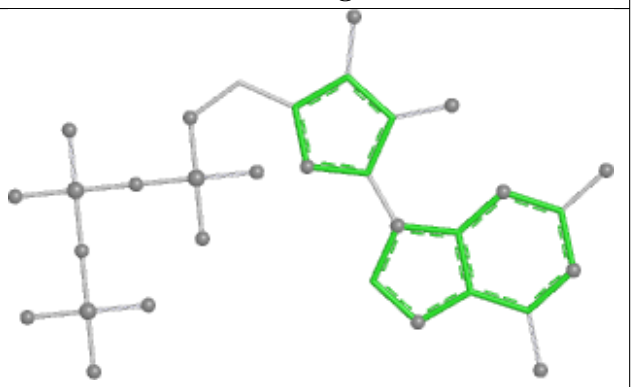
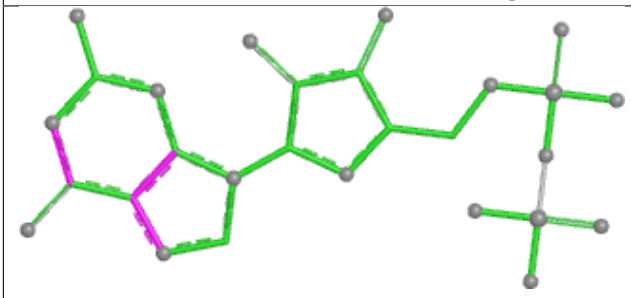


Torsions



Rings

Ligand GDP MH 500



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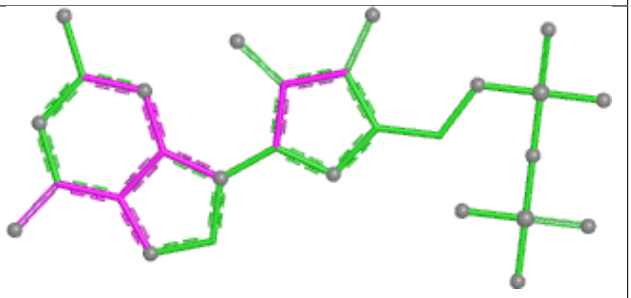

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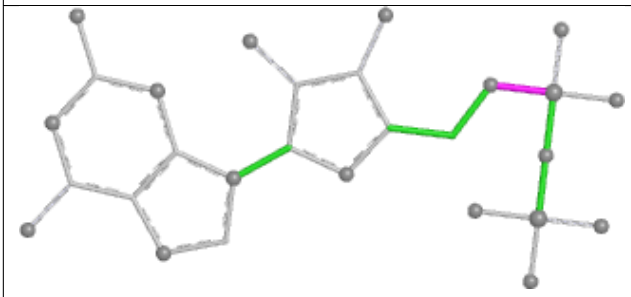

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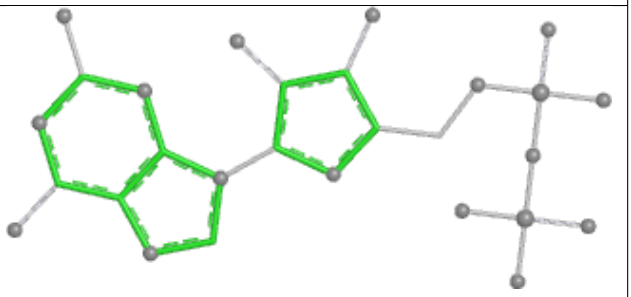
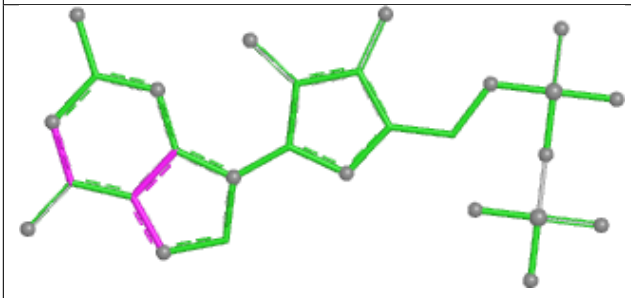


Rings

Ligand GDP WB 500



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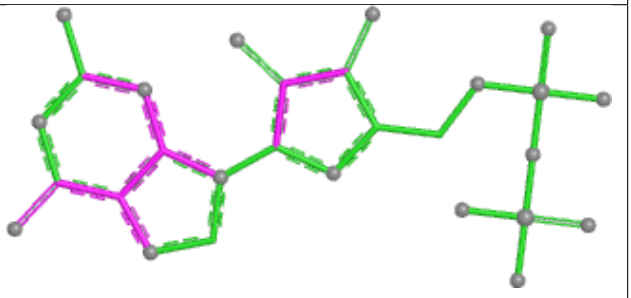

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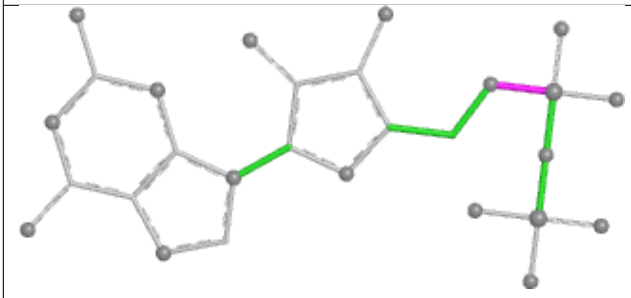

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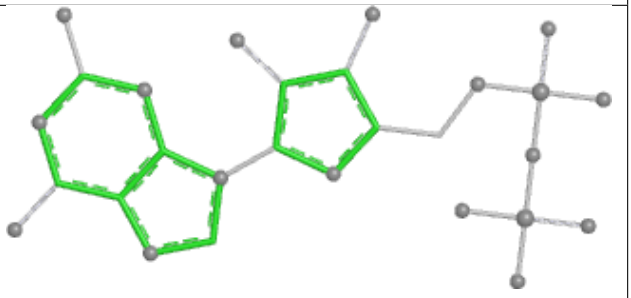
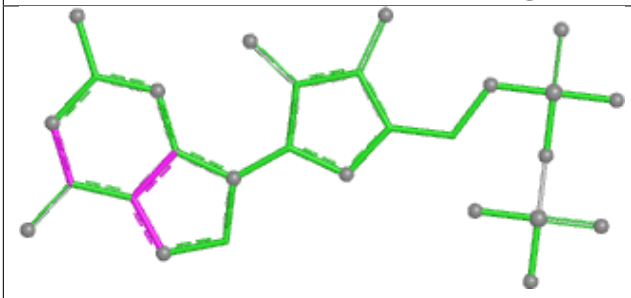


Rings

Ligand GDP A 500



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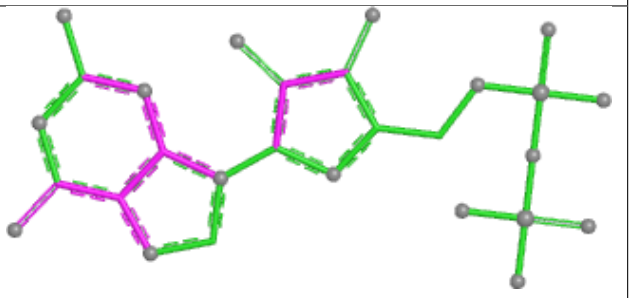

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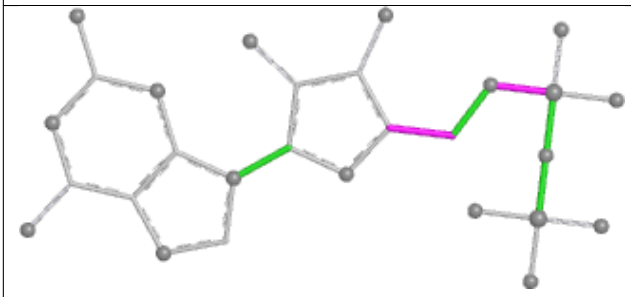

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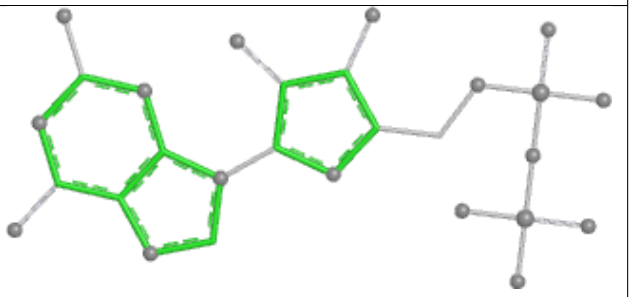
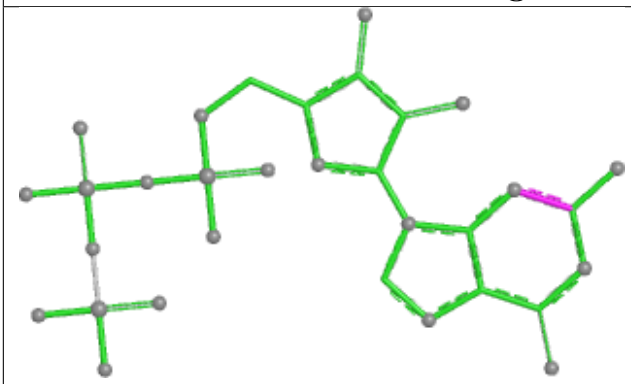


Rings

Ligand GTP HK 501



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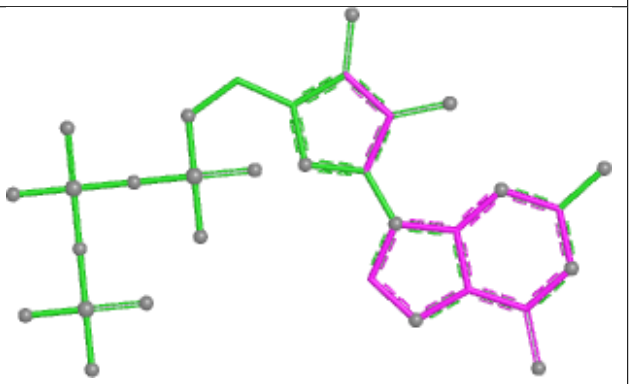

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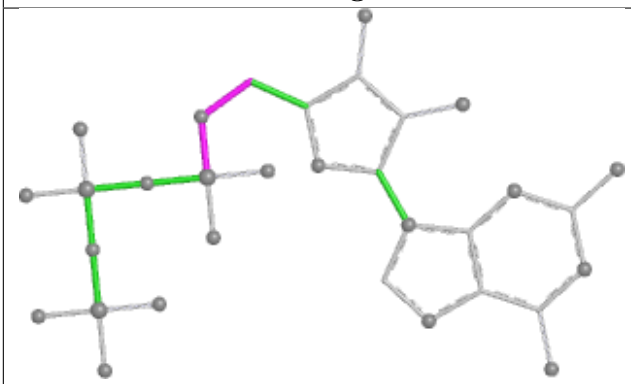

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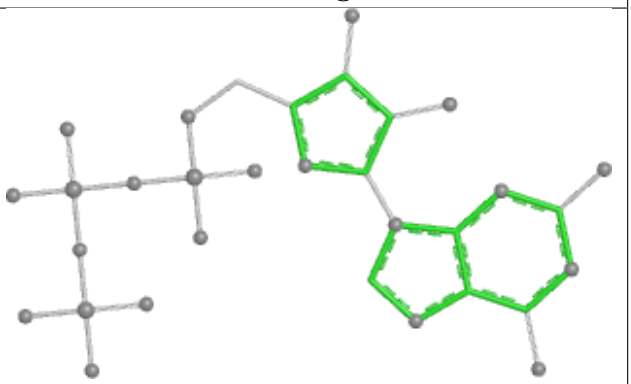
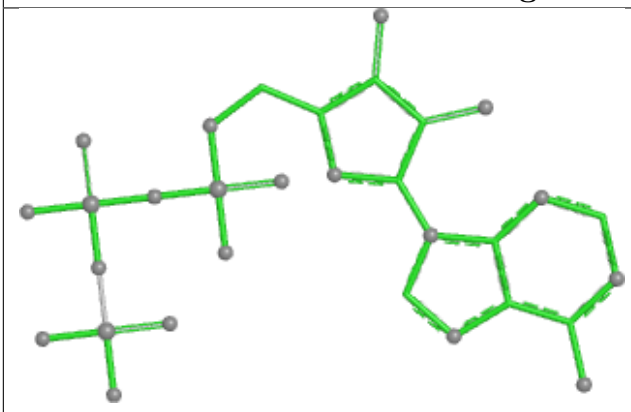


Rings

Ligand ATP 2v 501



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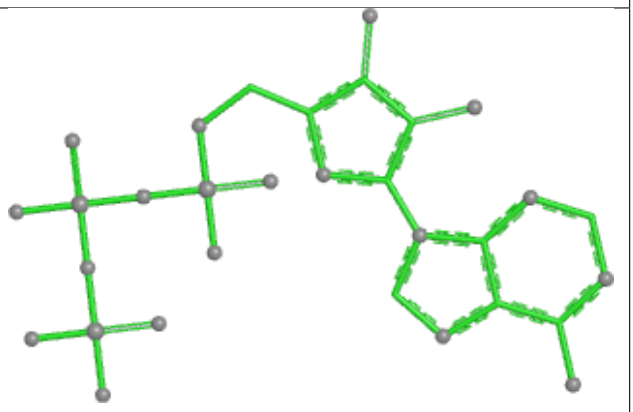

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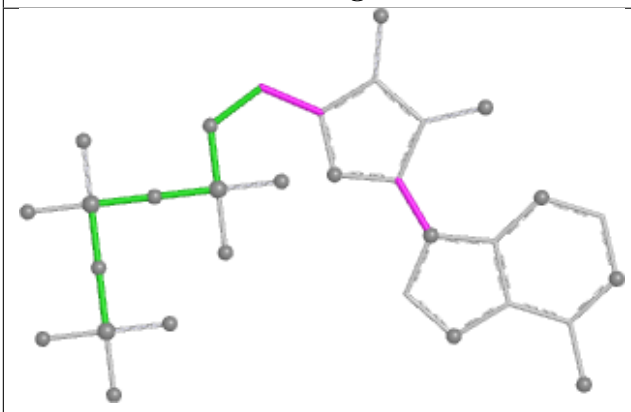

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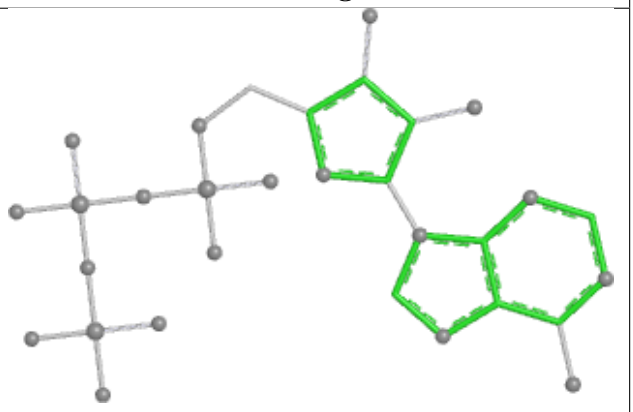
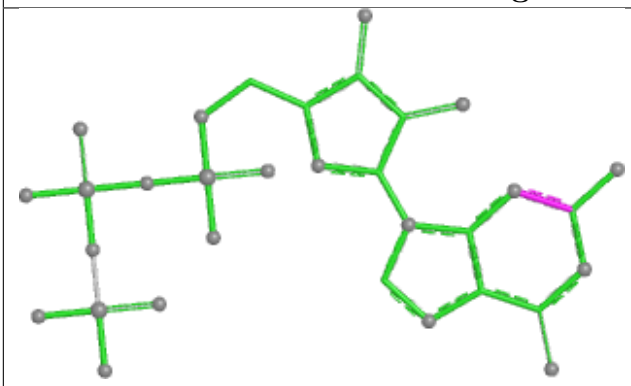


Rings

Ligand GTP SG 501



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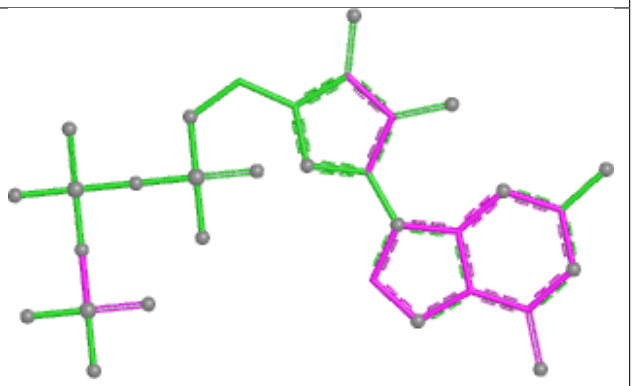

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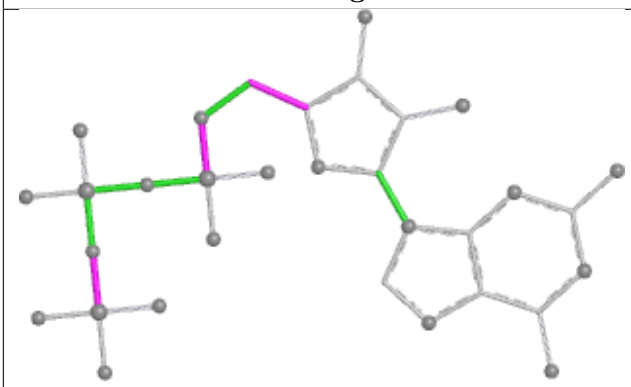

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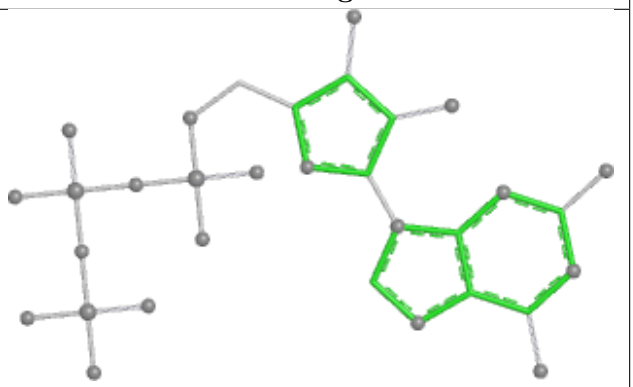
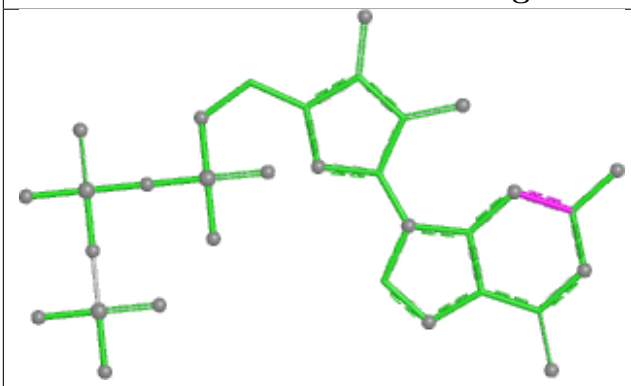


Rings

Ligand GTP KJ 501



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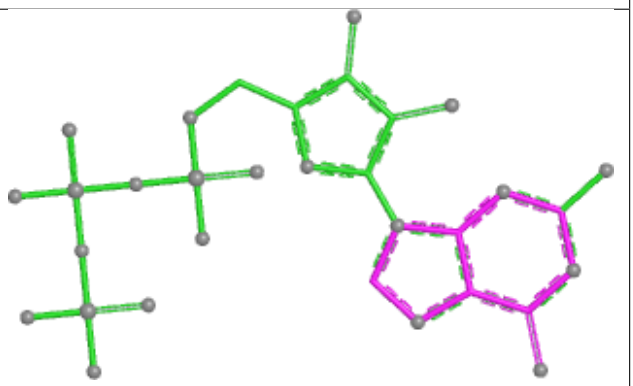

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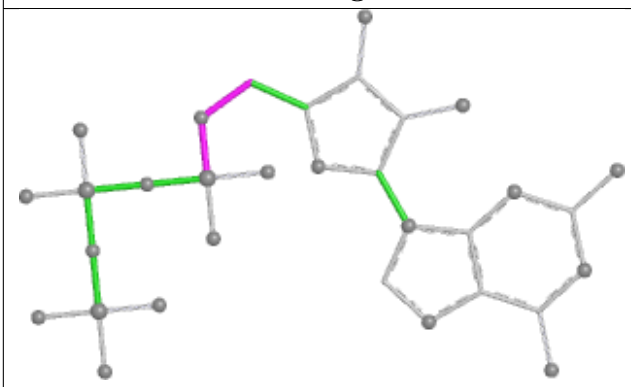

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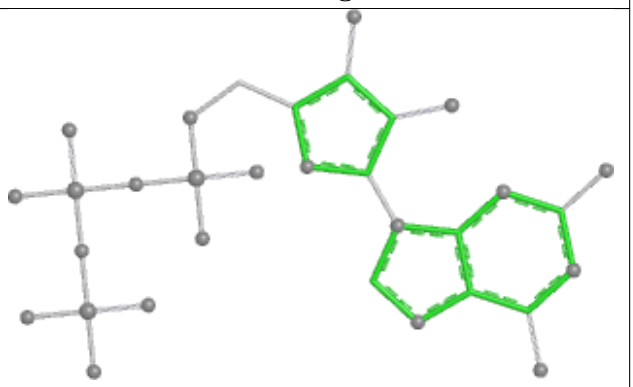
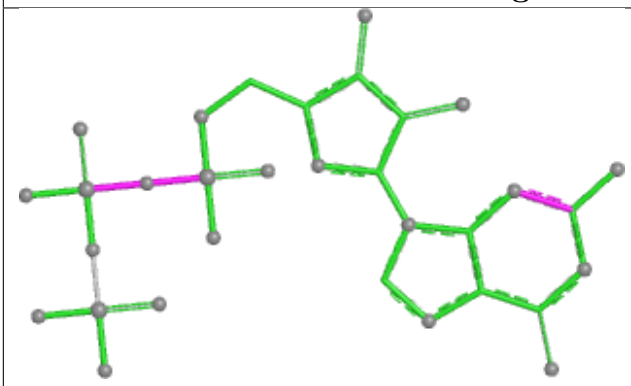


Rings

Ligand GTP CL 501



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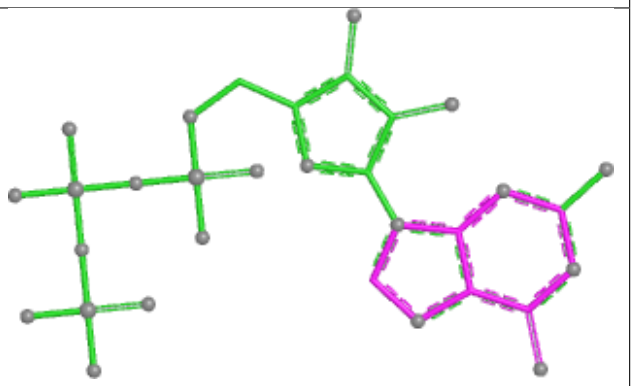

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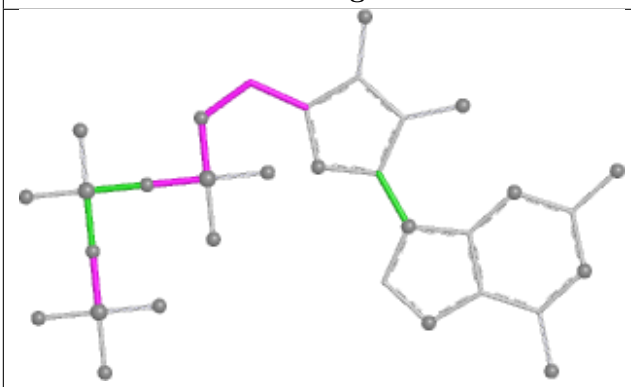

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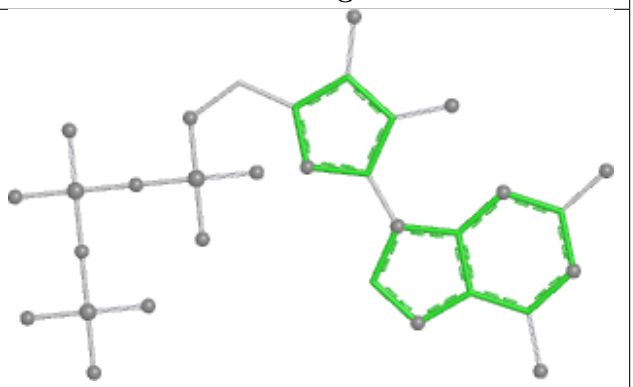

Rings

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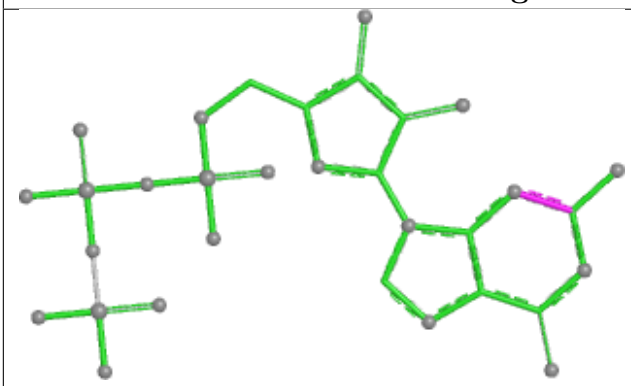

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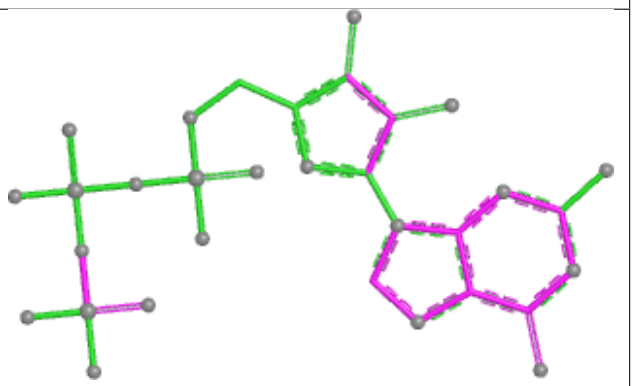

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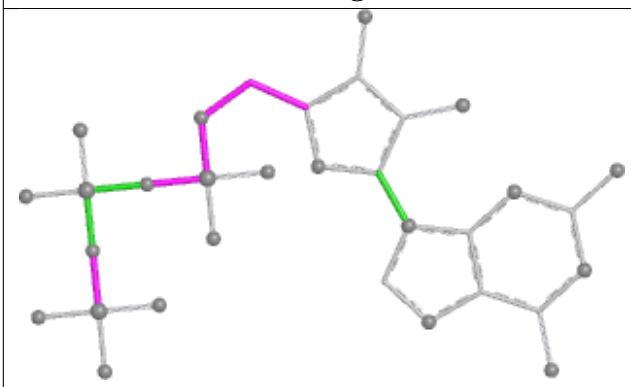

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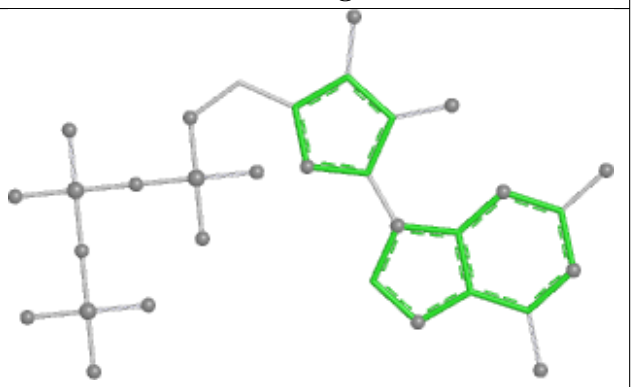
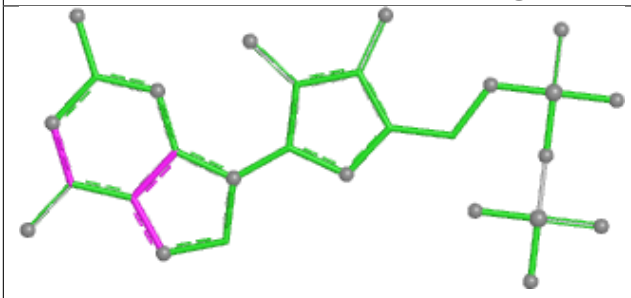


Rings

Ligand GDP SH 500



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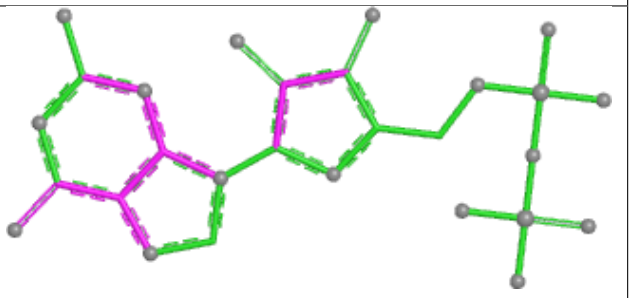

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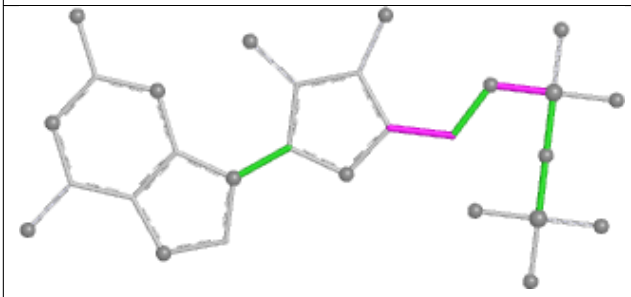

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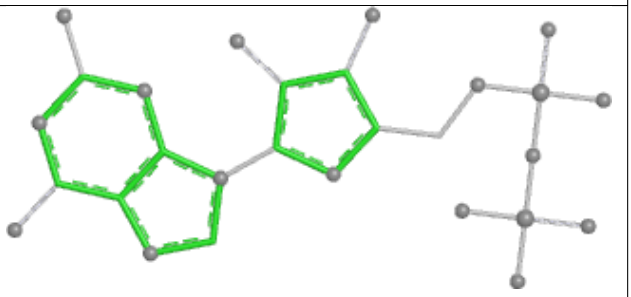
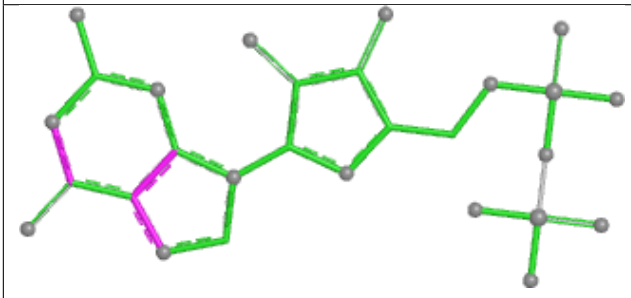


Rings

Ligand GDP BJ 500



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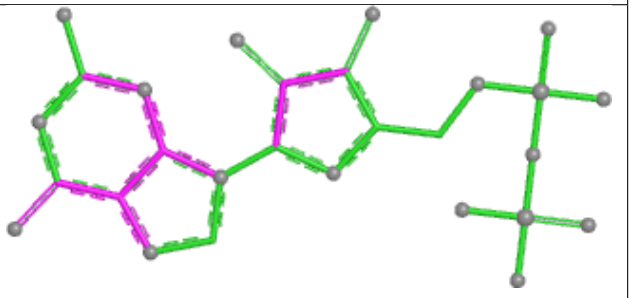
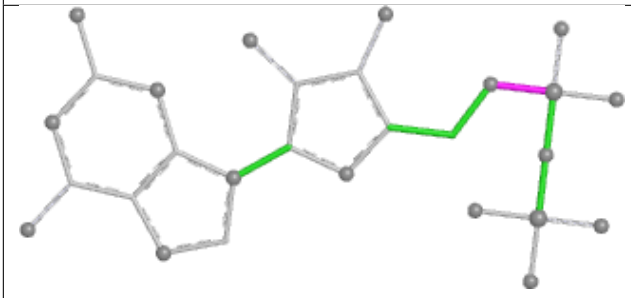


Bond angles



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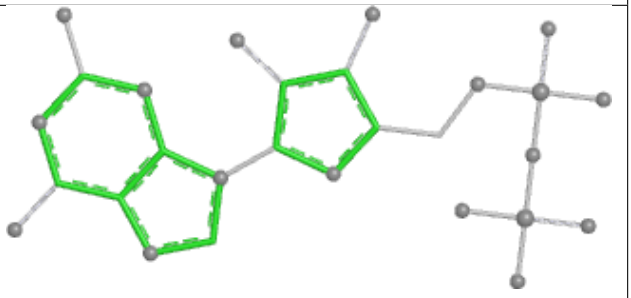
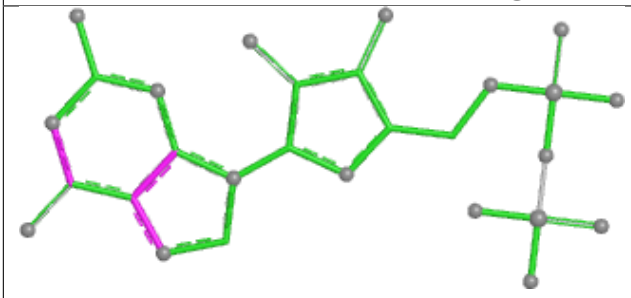


Rings

Ligand GDP PD 500



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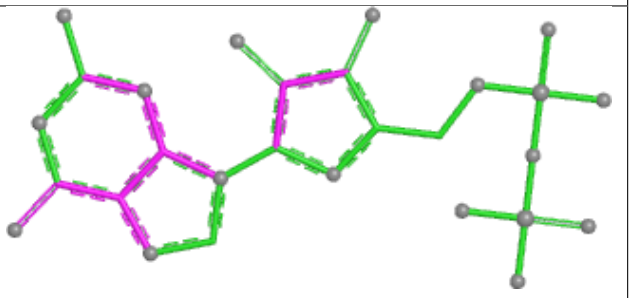
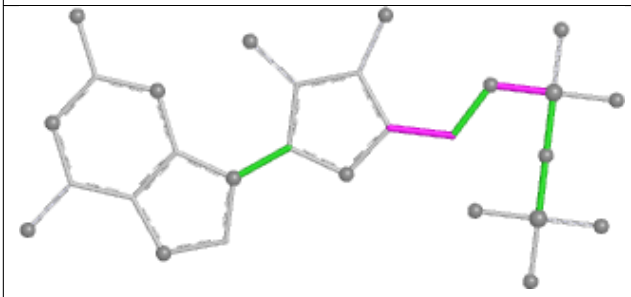


Bond angles



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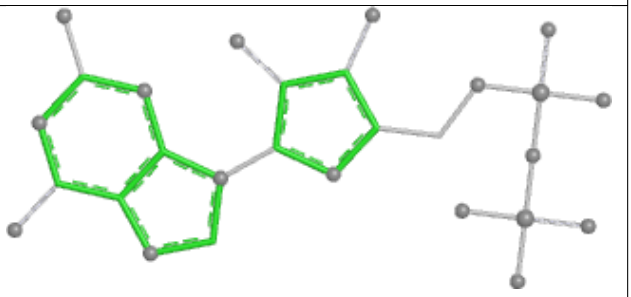
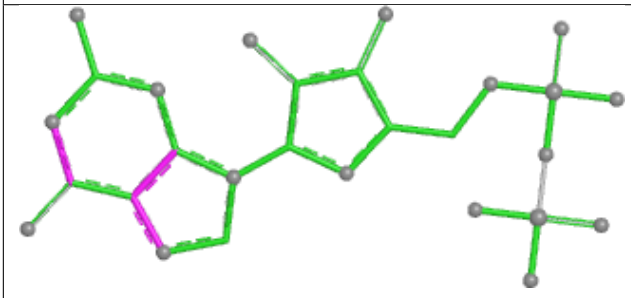


Rings

Ligand GDP TF 500



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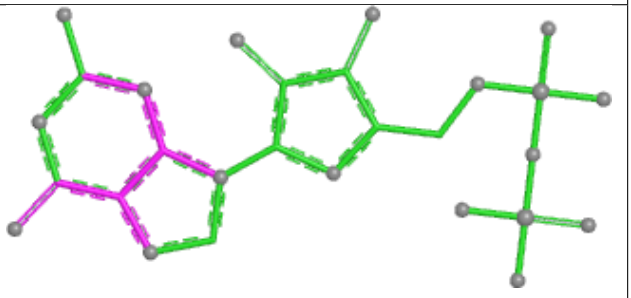
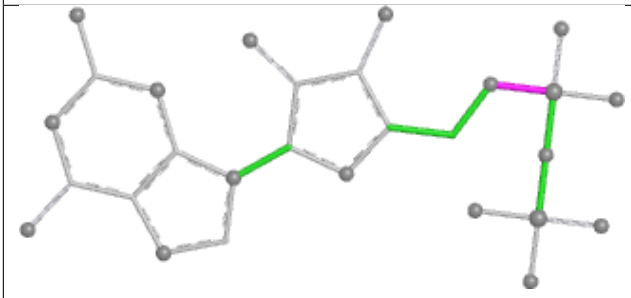


Bond angles



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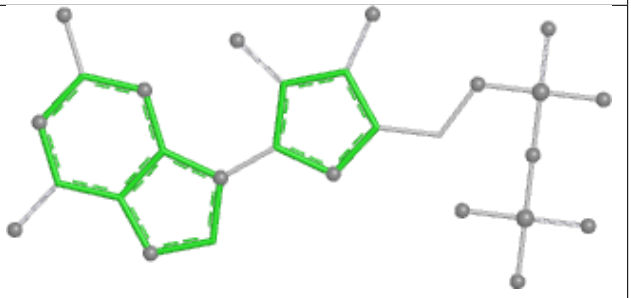
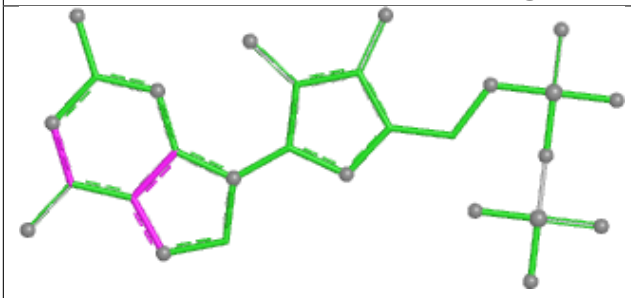
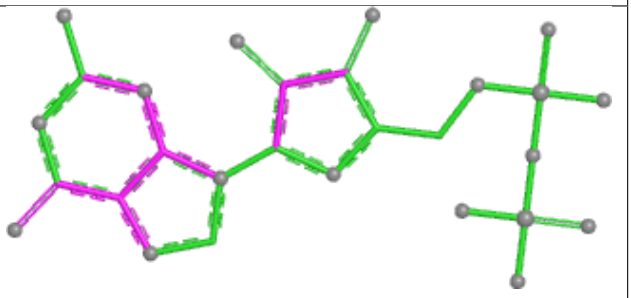


Rings

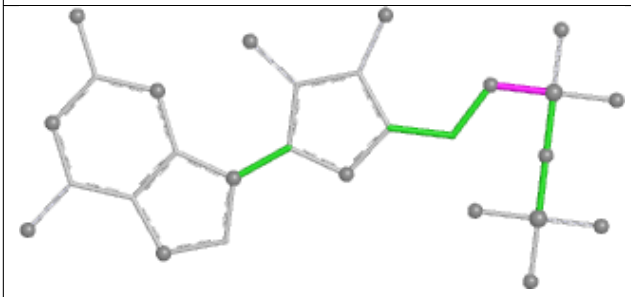
Ligand GDP V 500



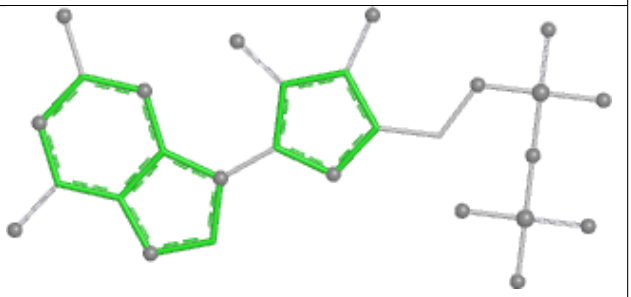
Bond lengths



Bond angles

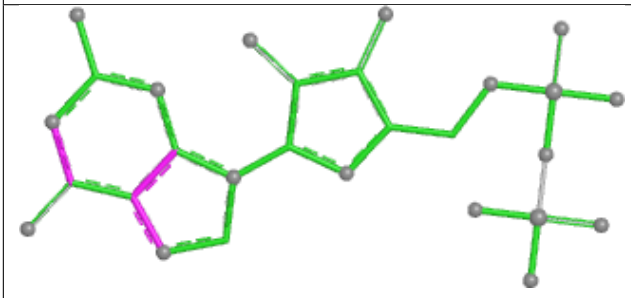


Torsions



Rings

Ligand GDP DA 500



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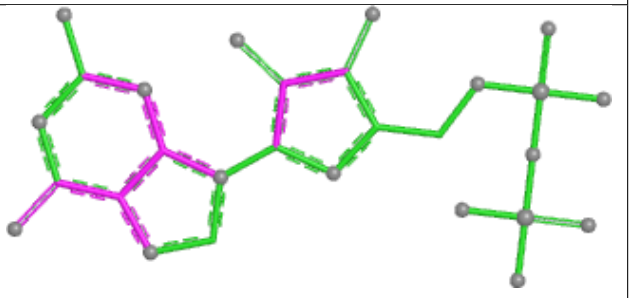

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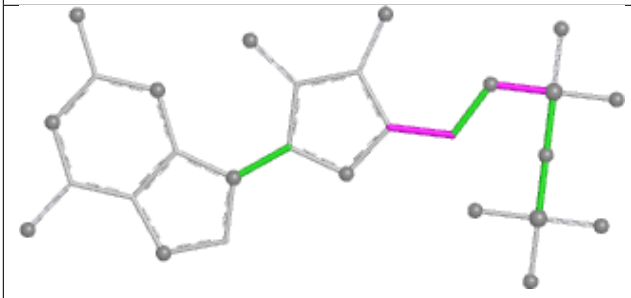

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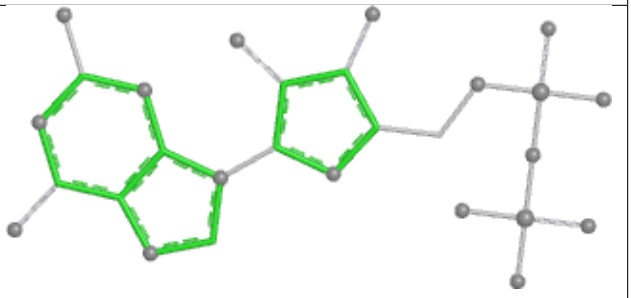
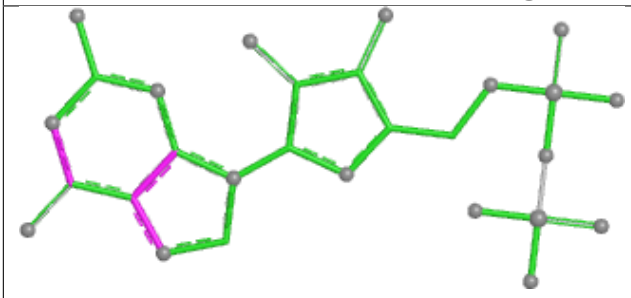


Rings

Ligand GDP N 500



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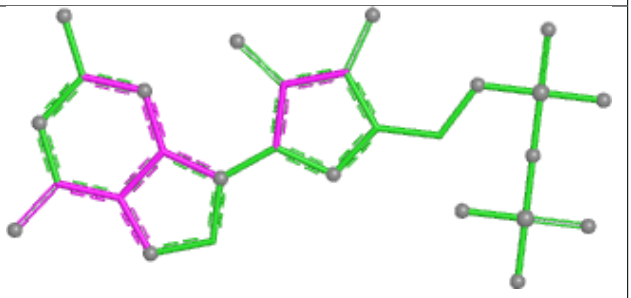

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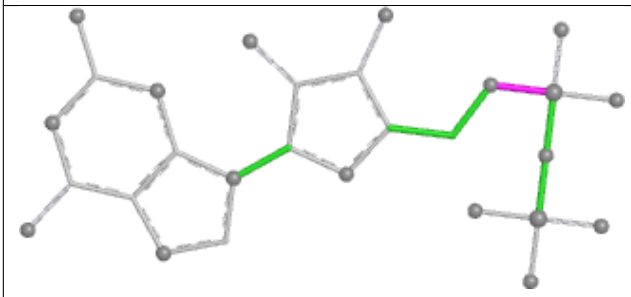

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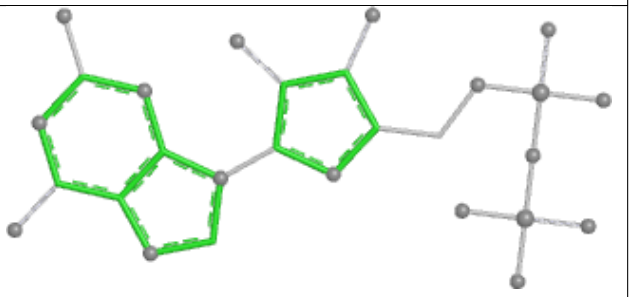
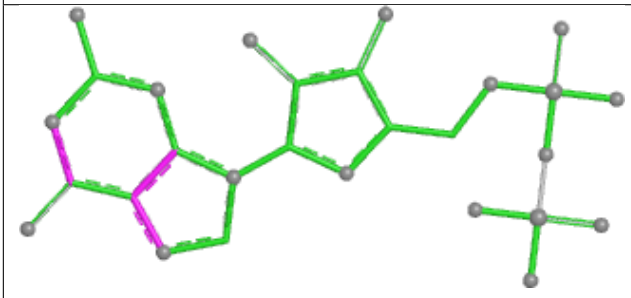


Rings

Ligand GDP EB 500



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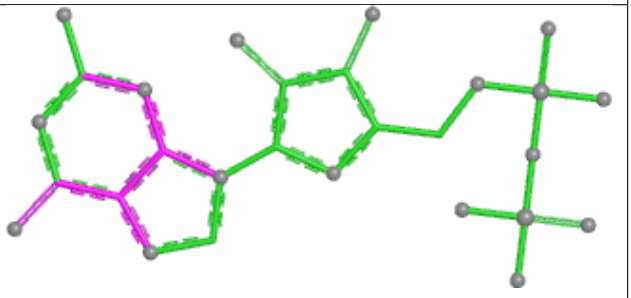

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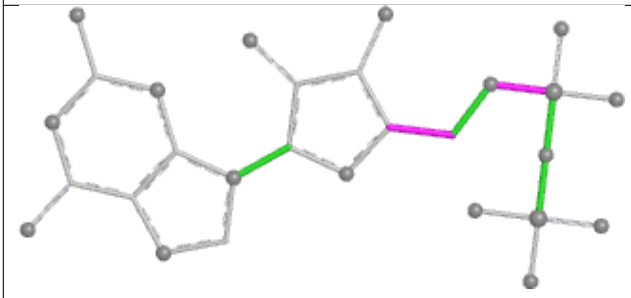

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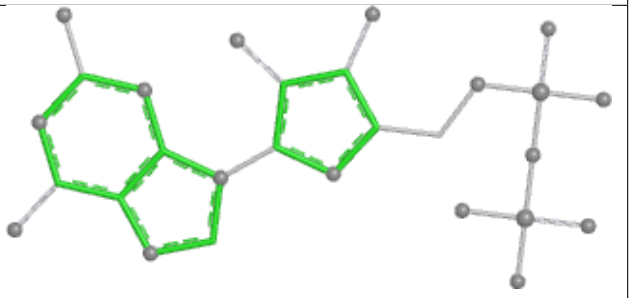
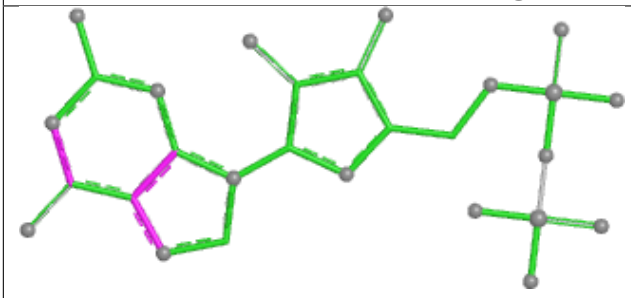


Rings

Ligand GDP AL 500



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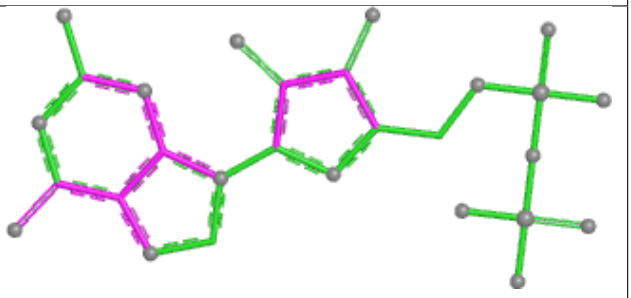

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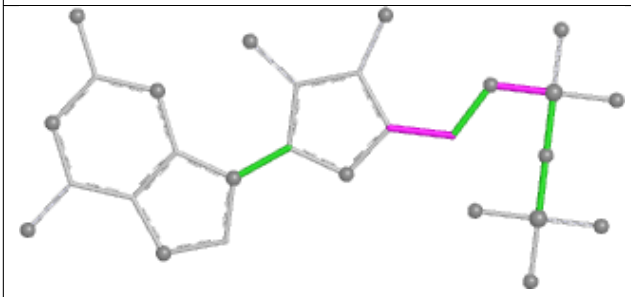

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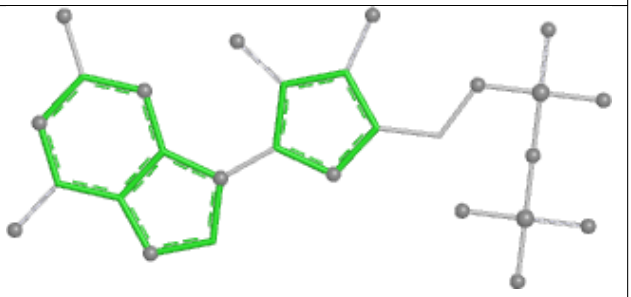
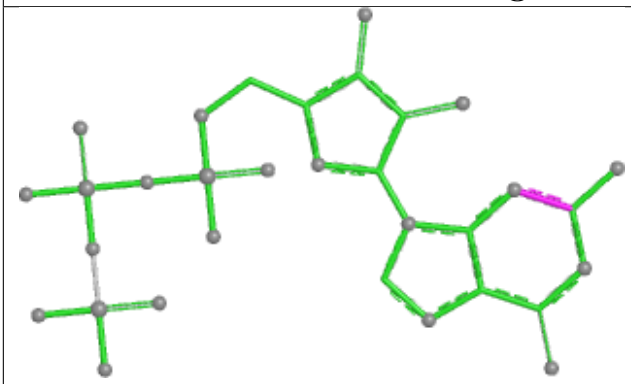


Rings

Ligand GTP NC 501



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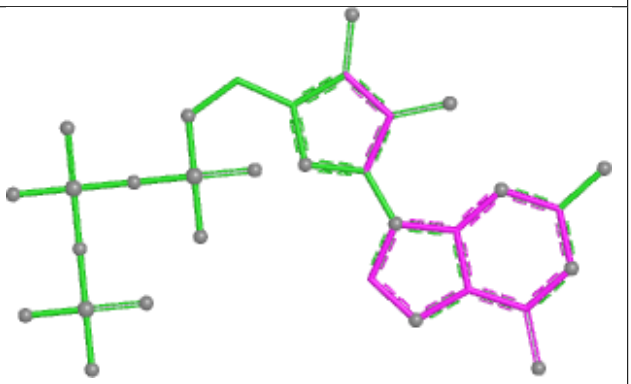

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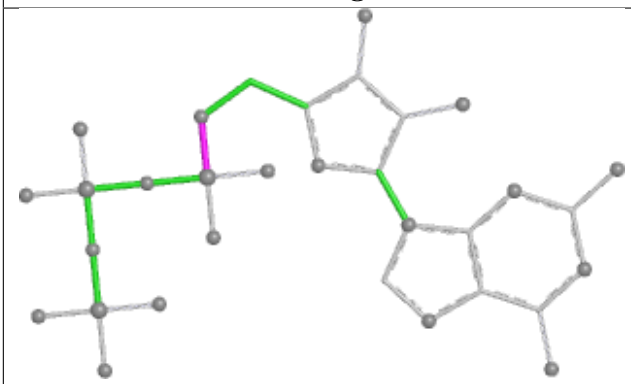

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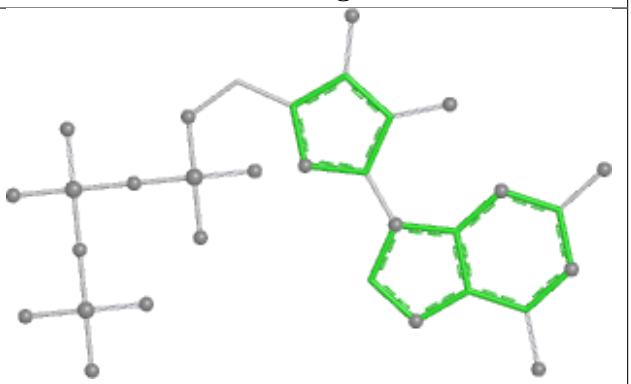
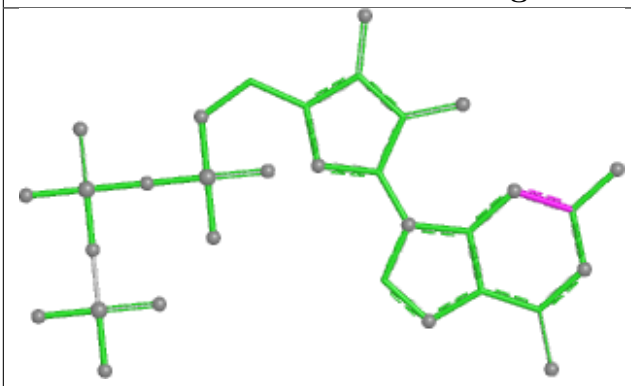


Rings

Ligand GTP AE 501



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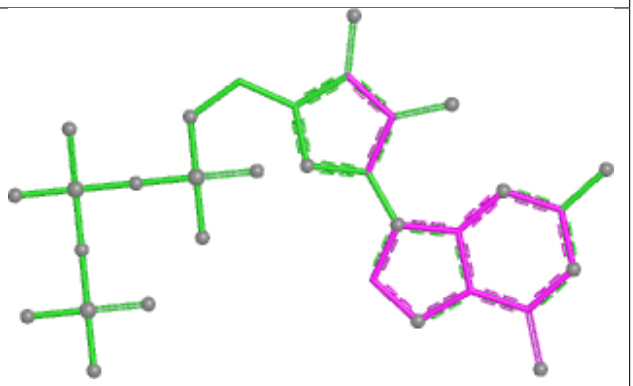

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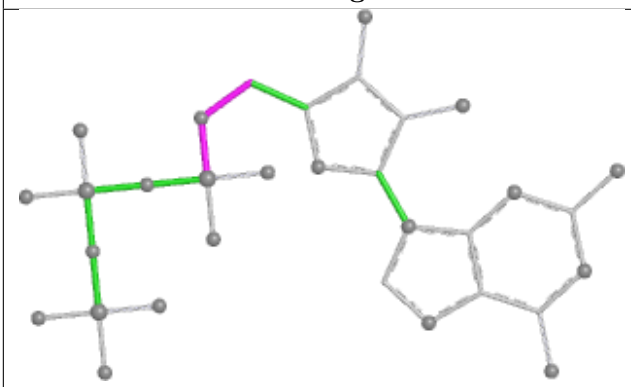

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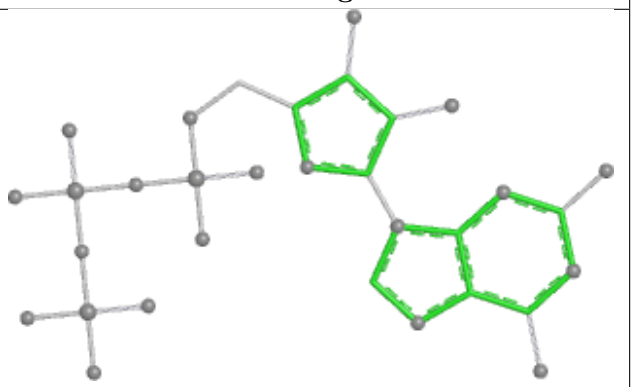
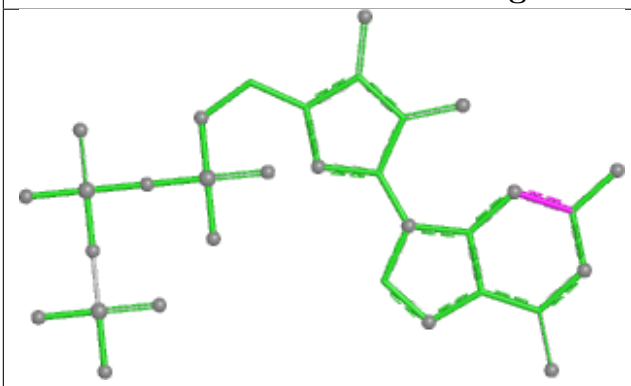


Rings

Ligand GTP UC 501



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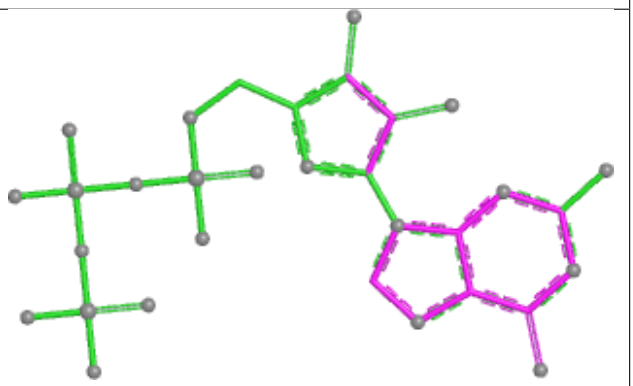

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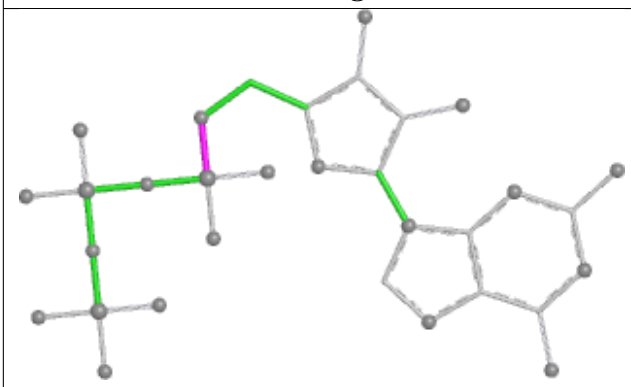

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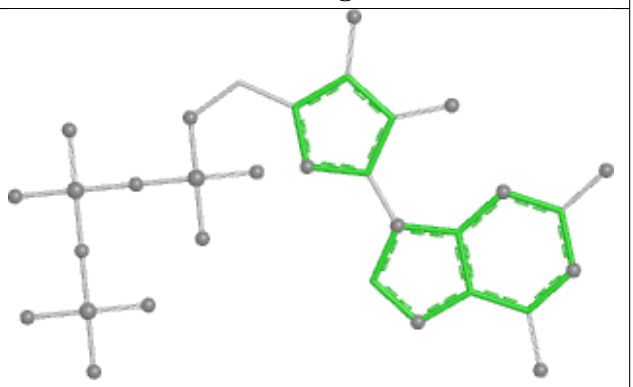
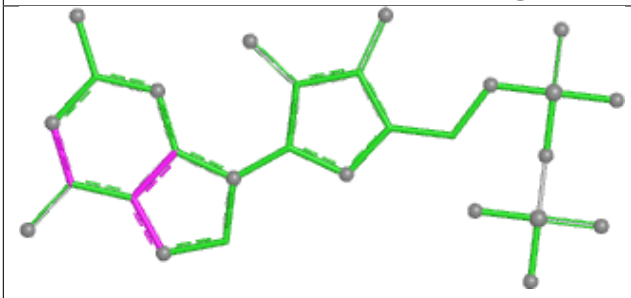


Rings

Ligand GDP OJ 500



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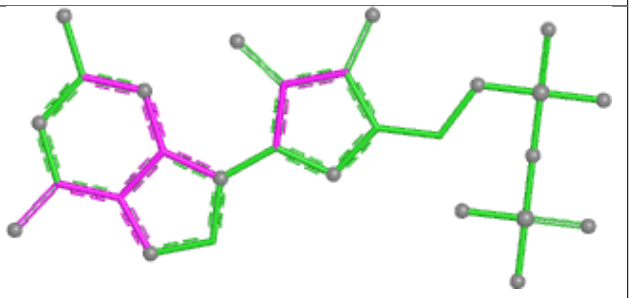

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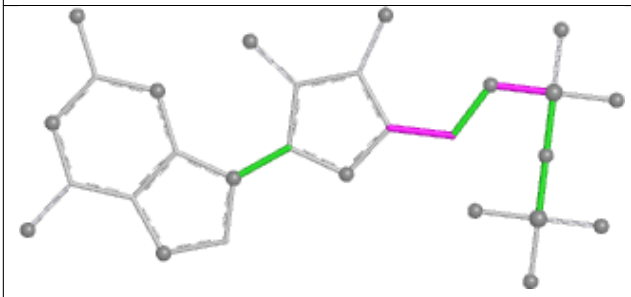

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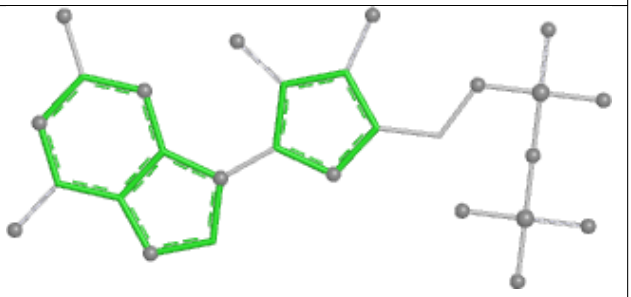
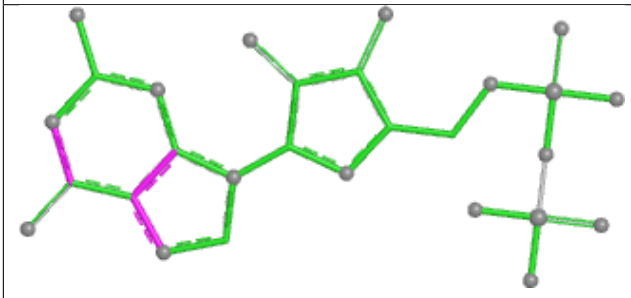


Rings

Ligand GDP PL 500



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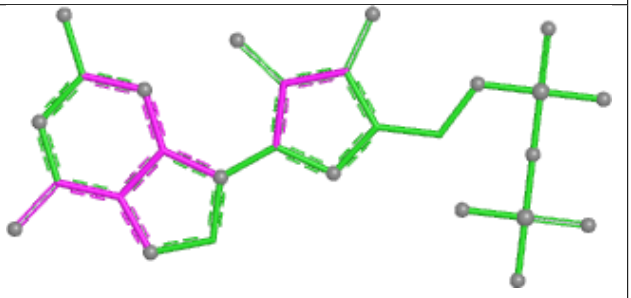

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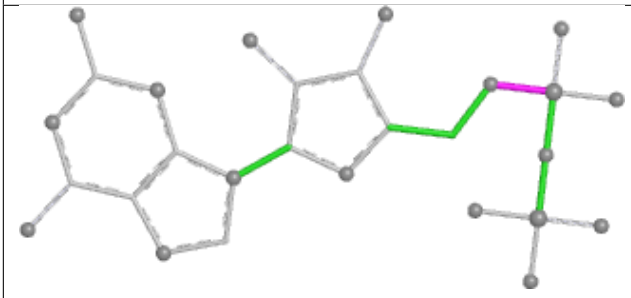

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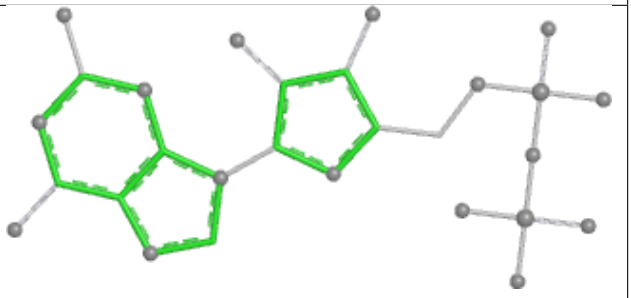
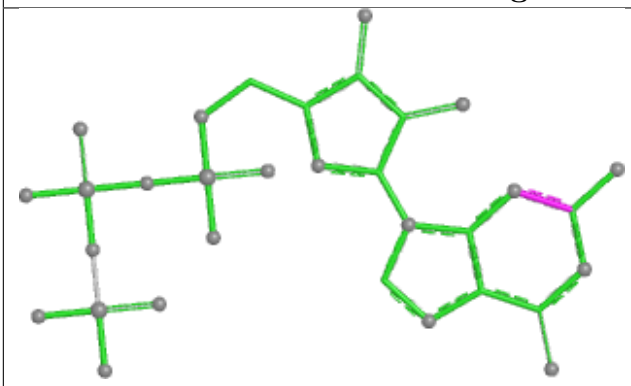


Rings

Ligand GTP TC 501



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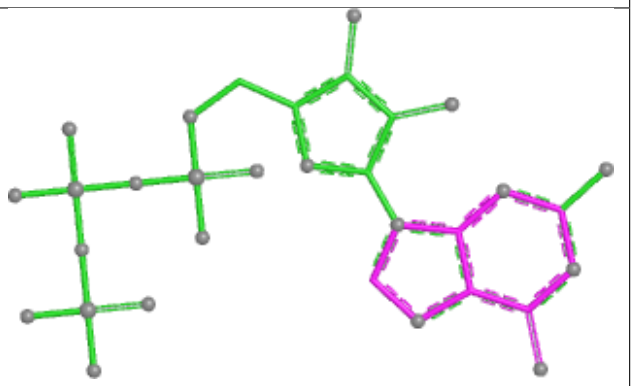

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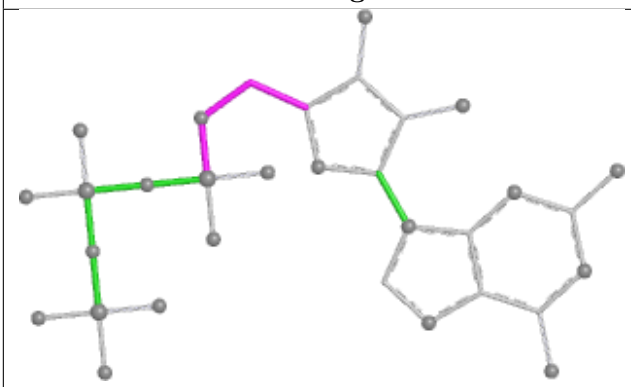

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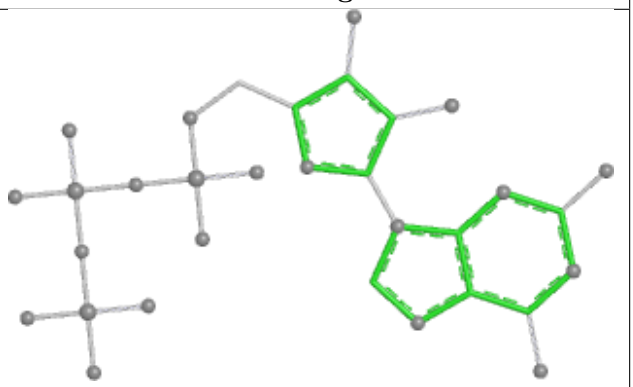
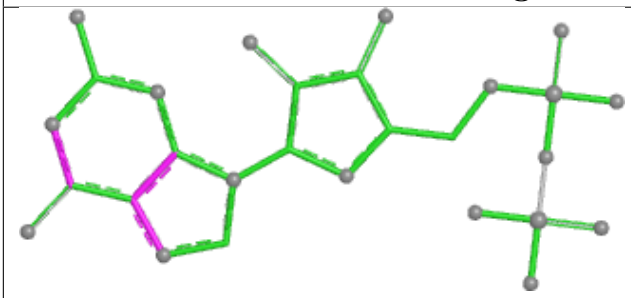


Rings

Ligand GDP TJ 500



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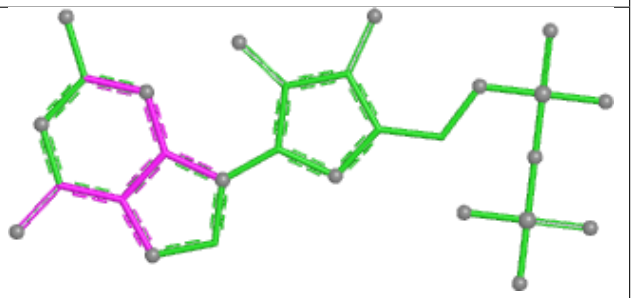
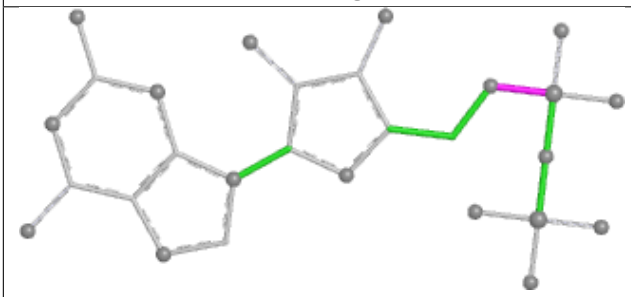


Bond angles



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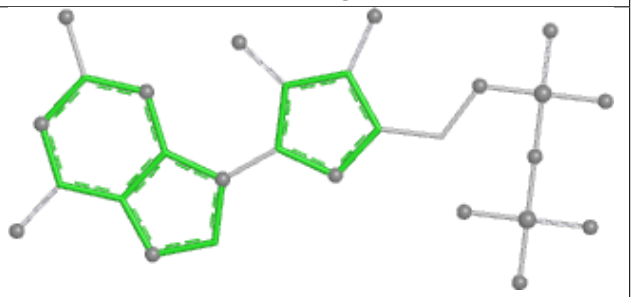

Rings

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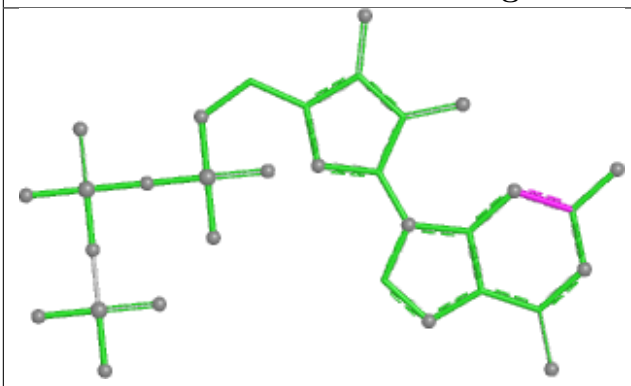

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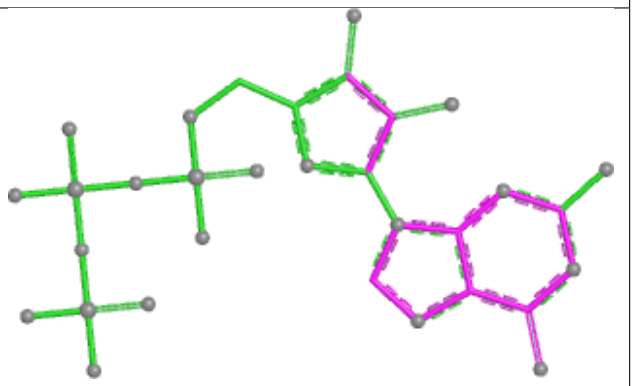
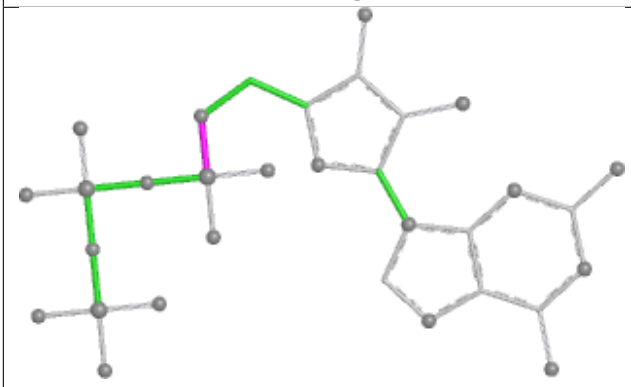
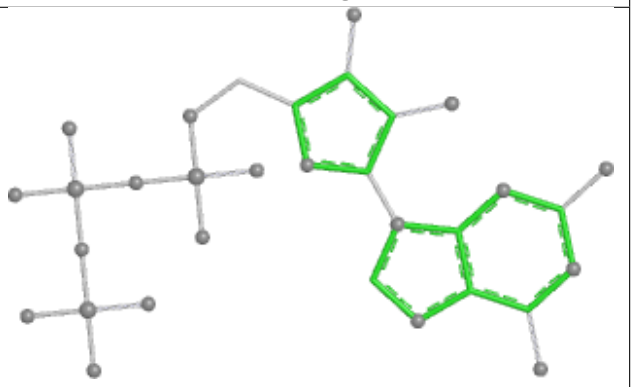


Bond angles

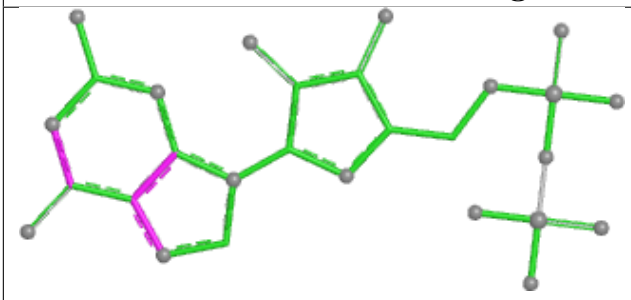


Torsions



Rings

Ligand GDP FD 500



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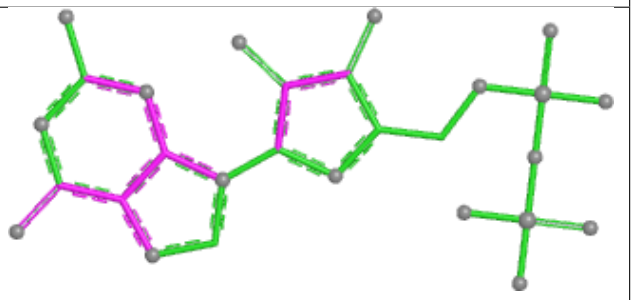
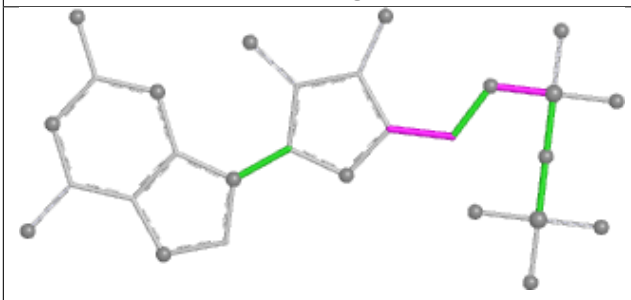
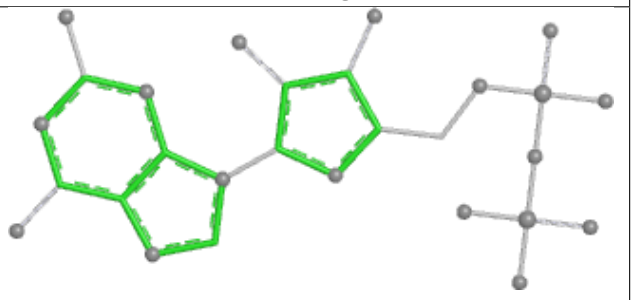


Bond angles

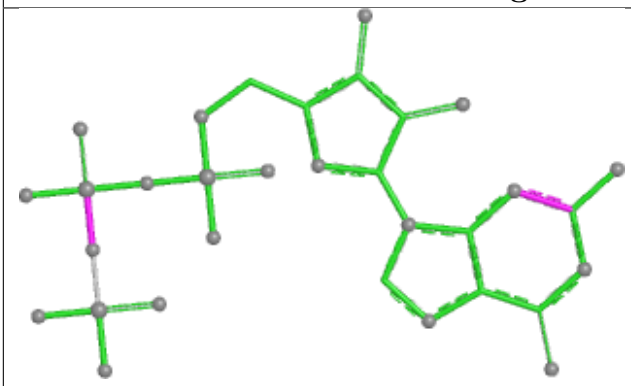


Torsions



Rings

Ligand GTP OE 501



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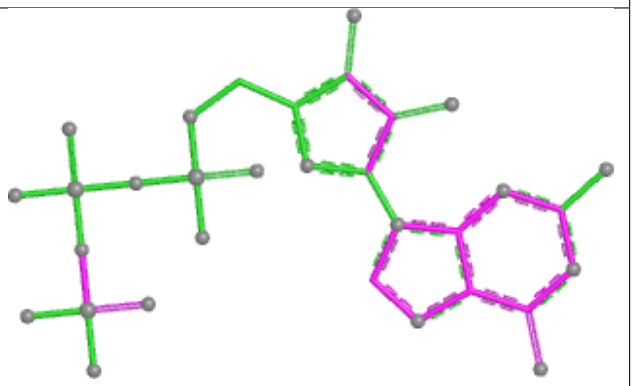

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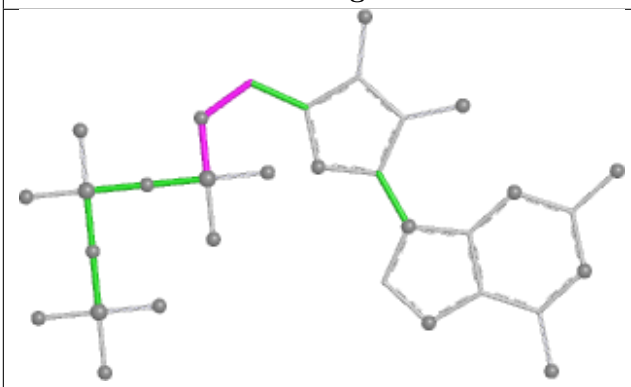

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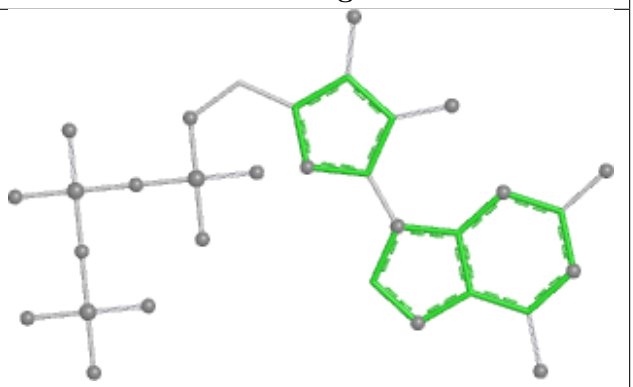
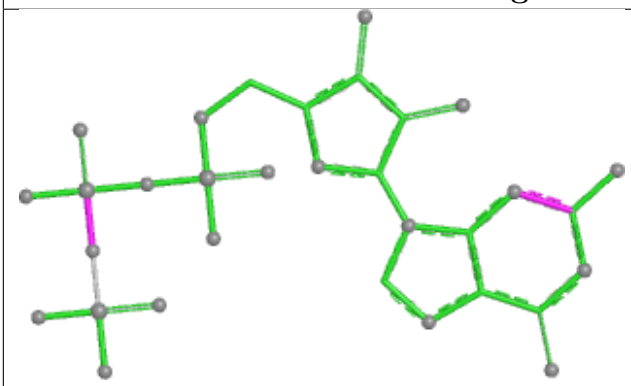


Rings

Ligand GTP TA 501



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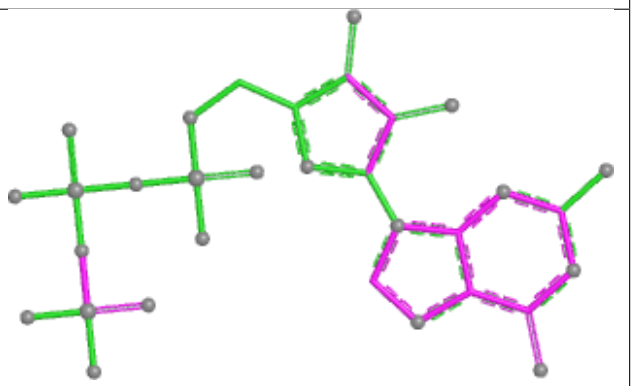

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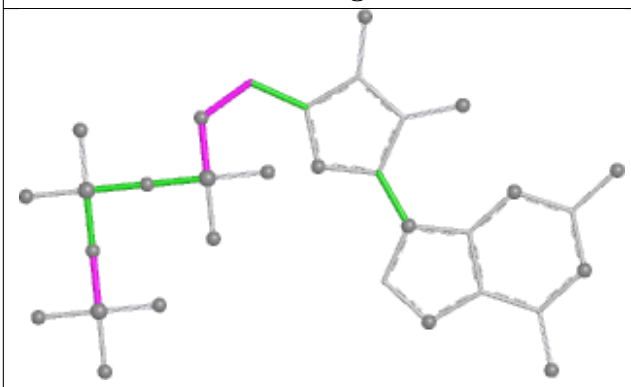

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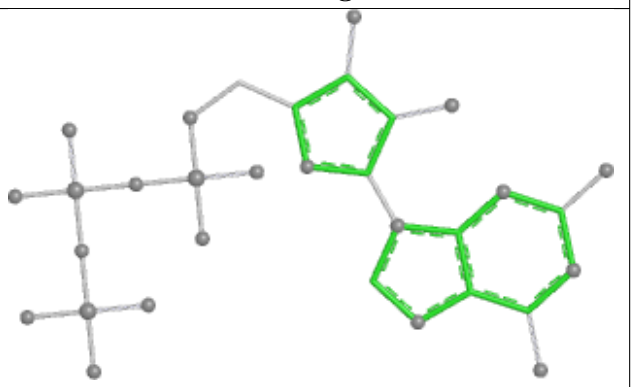
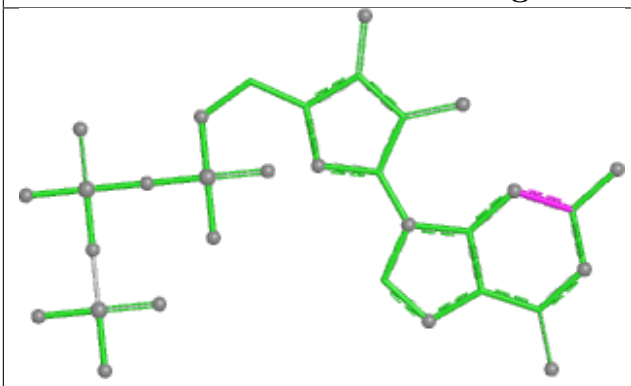


Rings

Ligand GTP PA 501



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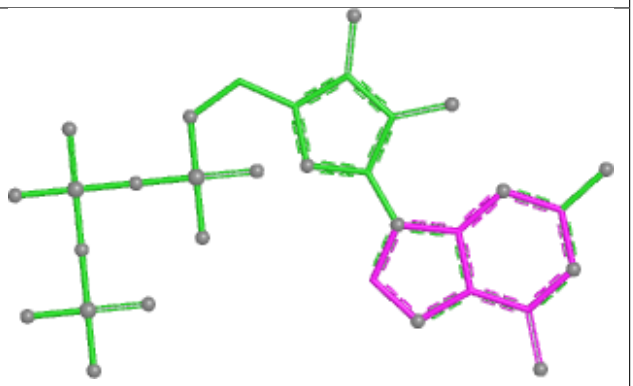

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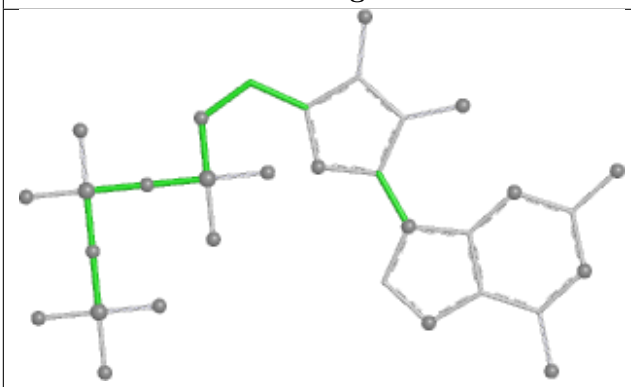

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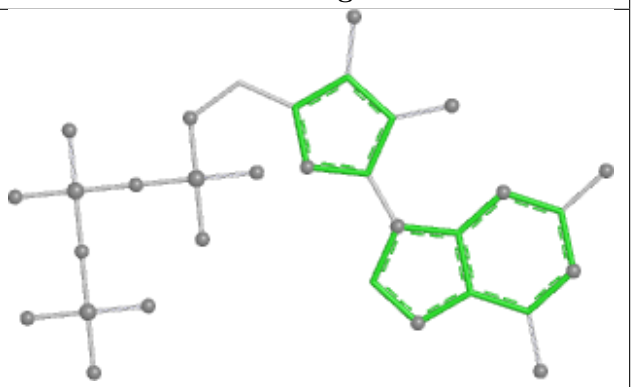
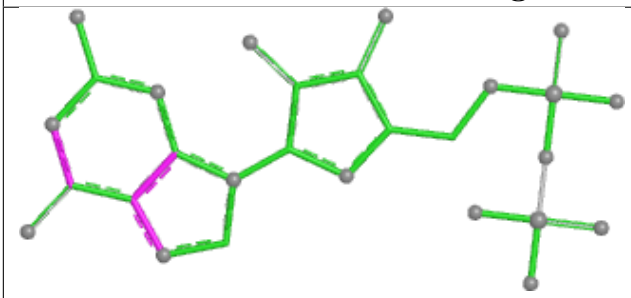


Rings

Ligand GDP CE 500



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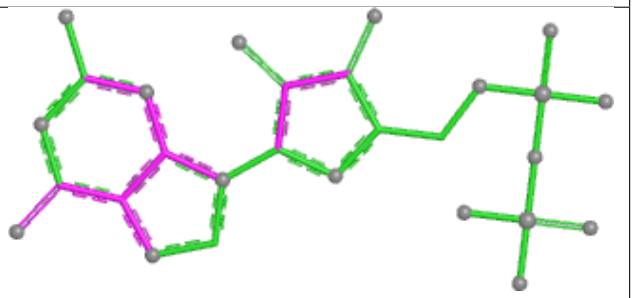

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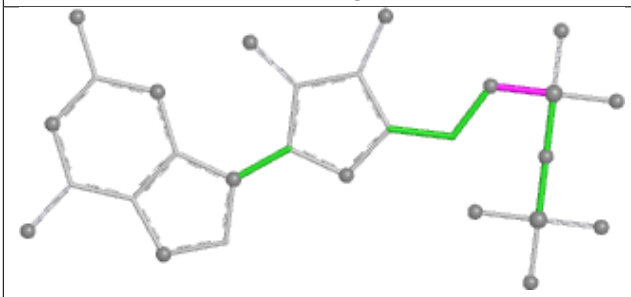

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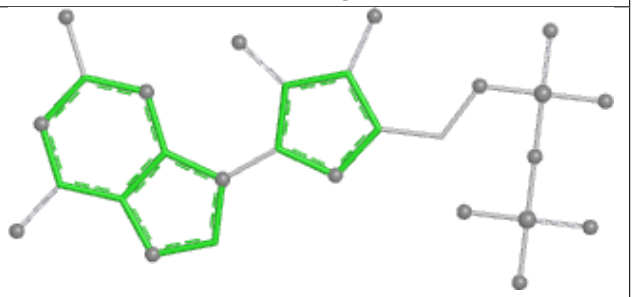
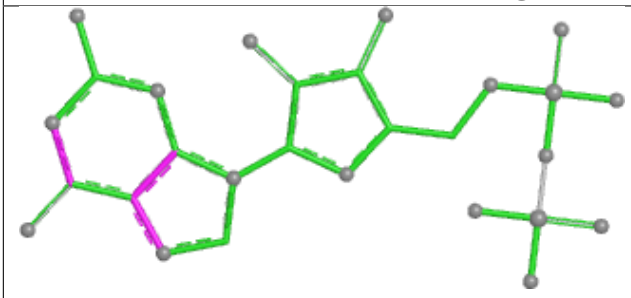


Rings

Ligand GDP SF 500



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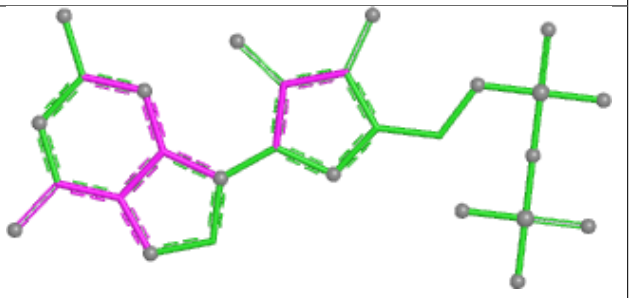

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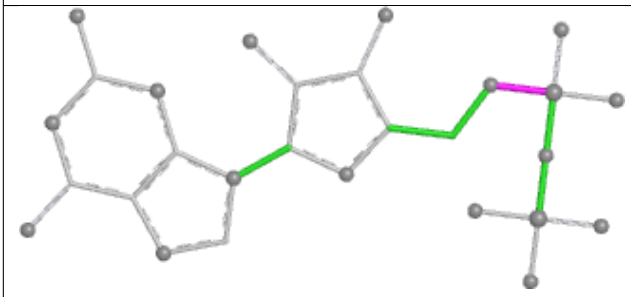

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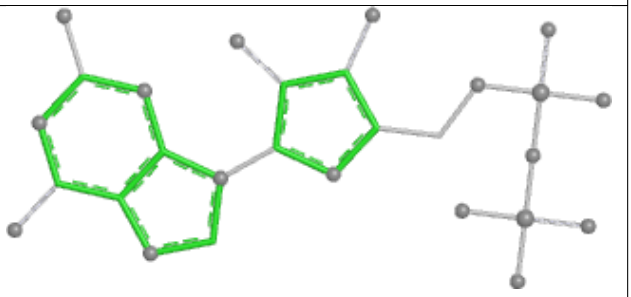
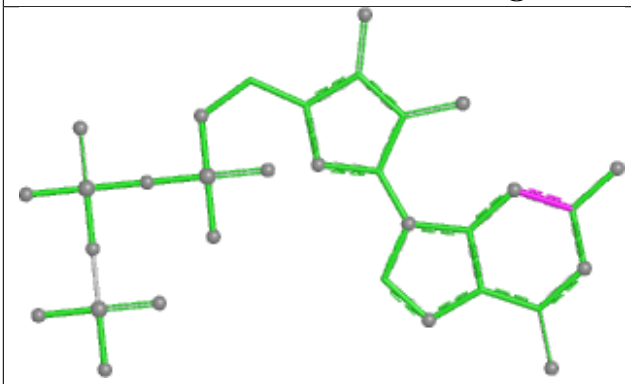


Rings

Ligand GTP VK 501



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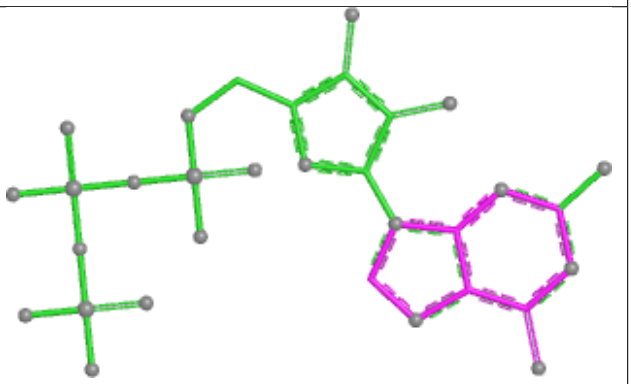

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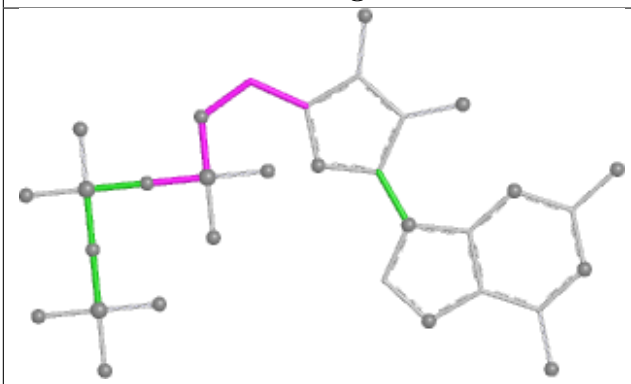

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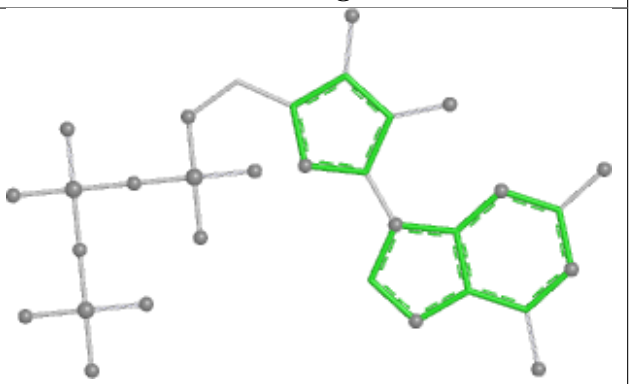
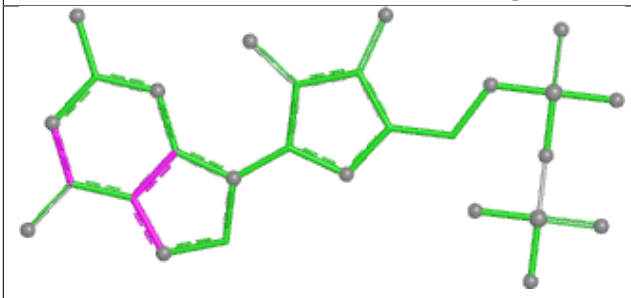
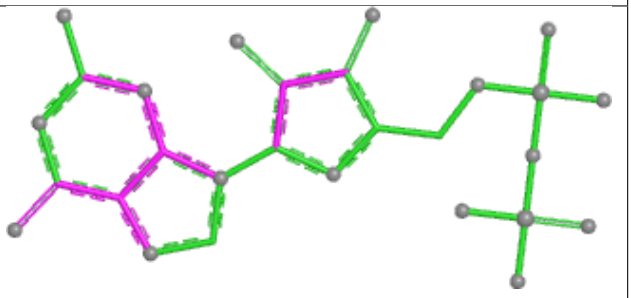
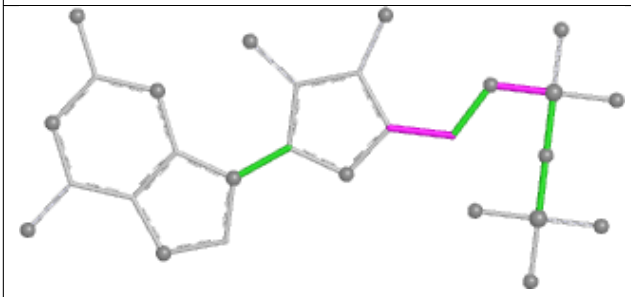
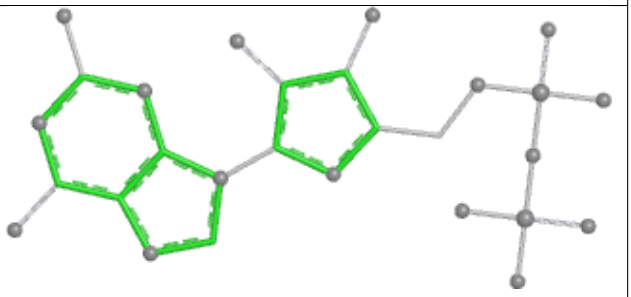
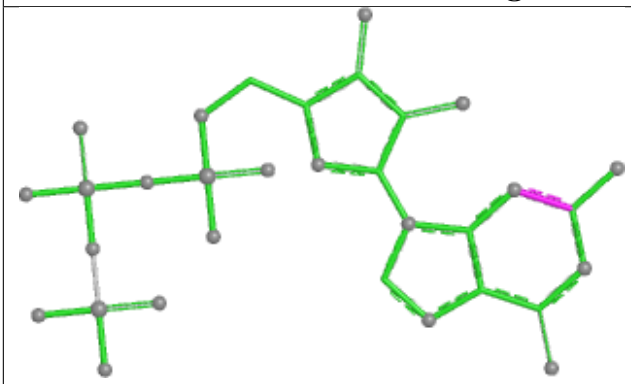
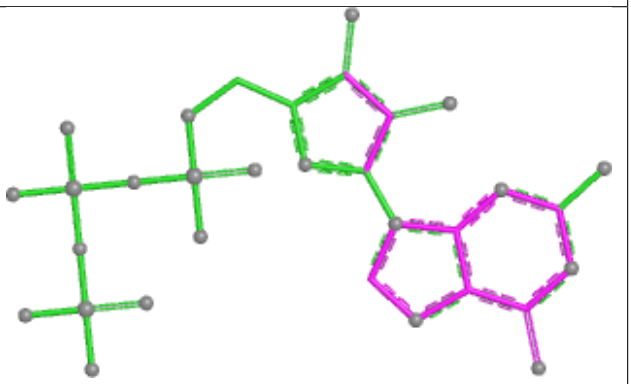
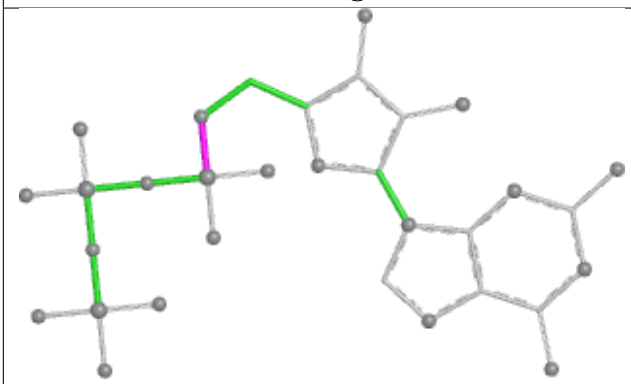
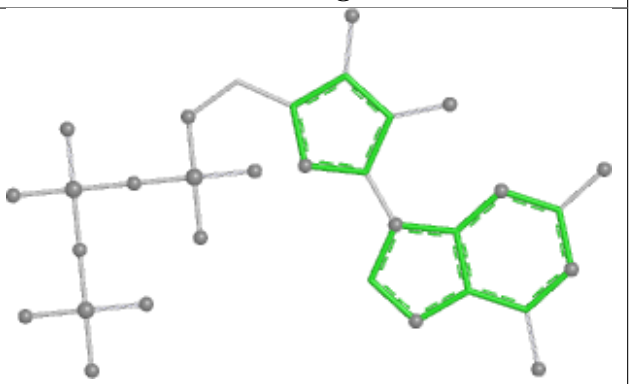
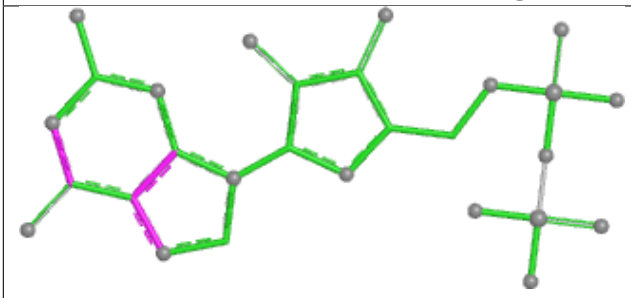


Rings

Ligand GDP HD 500	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GTP WA 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GDP TL 500



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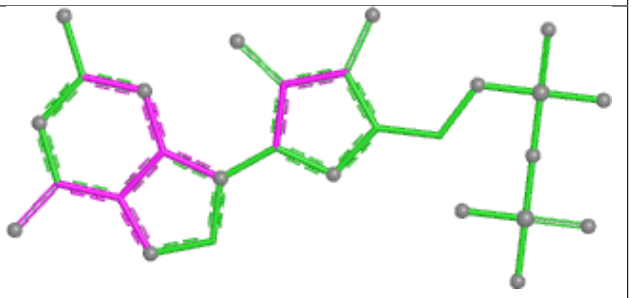

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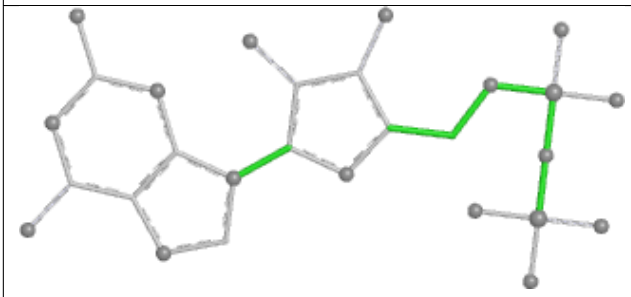

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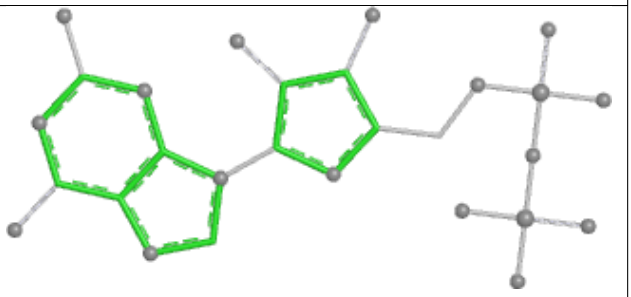
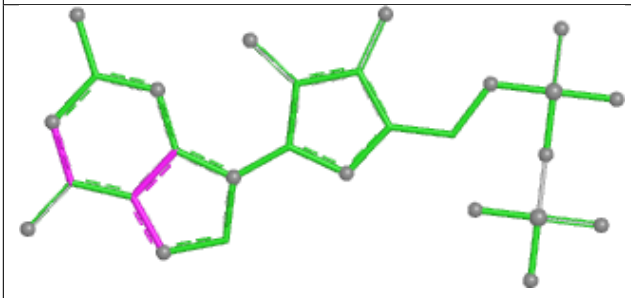


Rings

Ligand GDP KM 500



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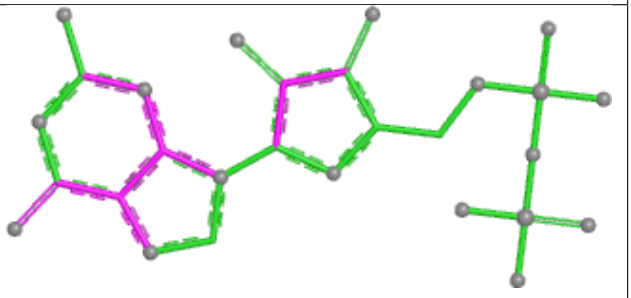

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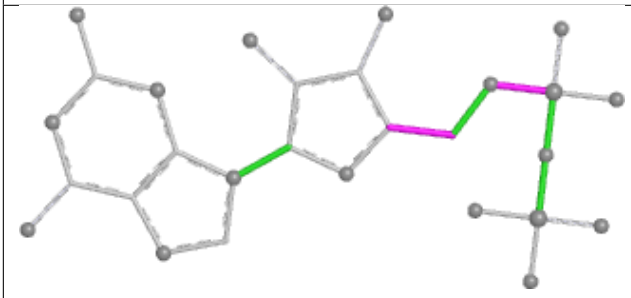

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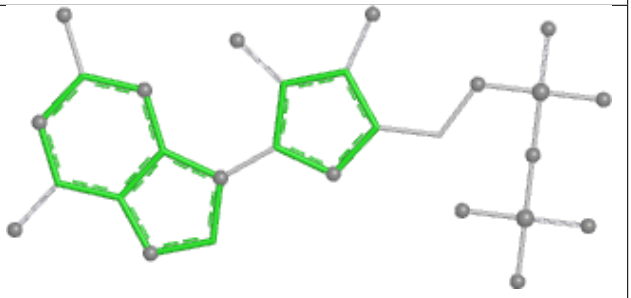
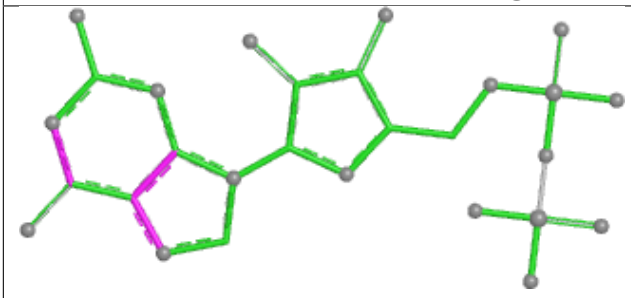


Rings

Ligand GDP TH 500



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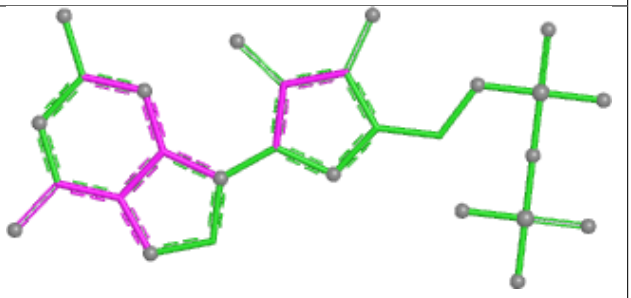
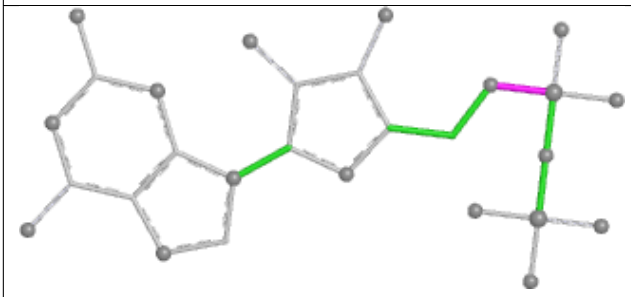


Bond angles



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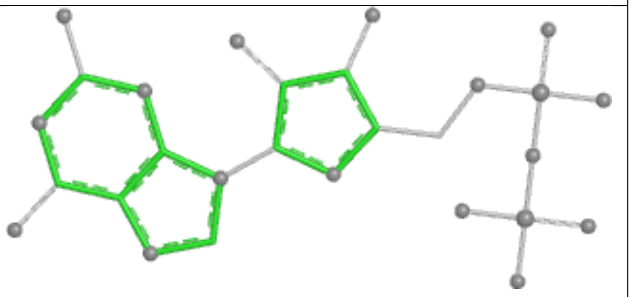
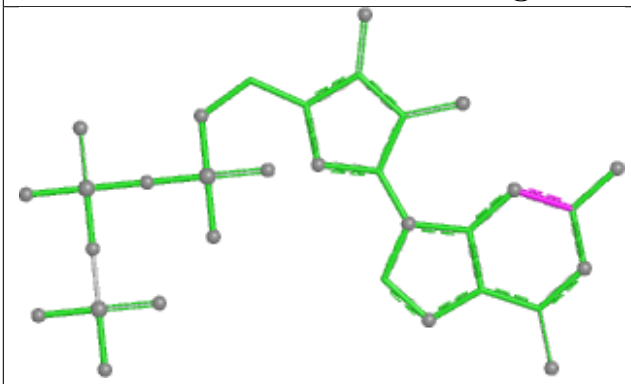


Rings

Ligand GTP JN 501



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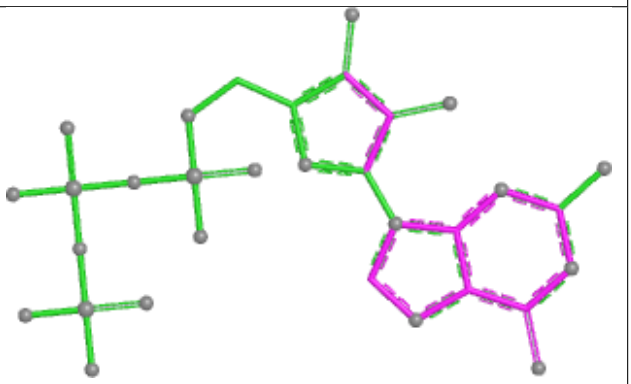
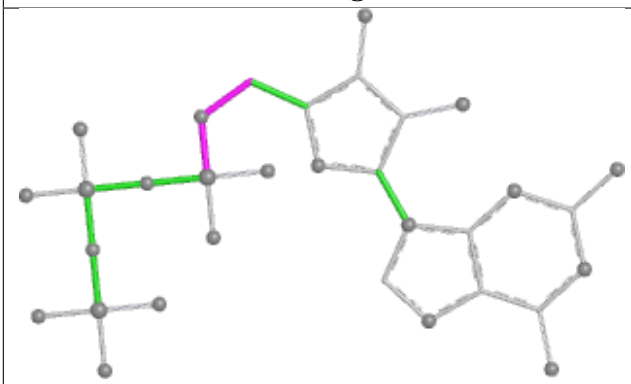


Bond angles



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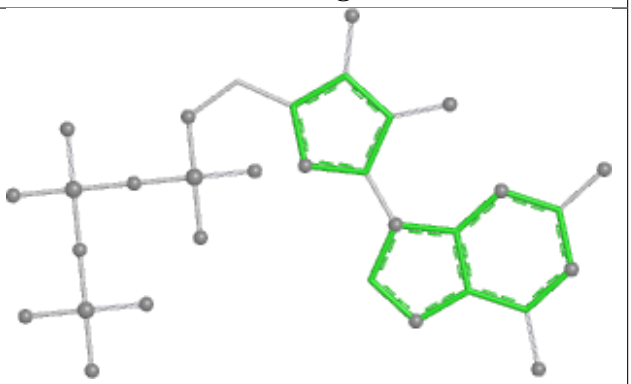
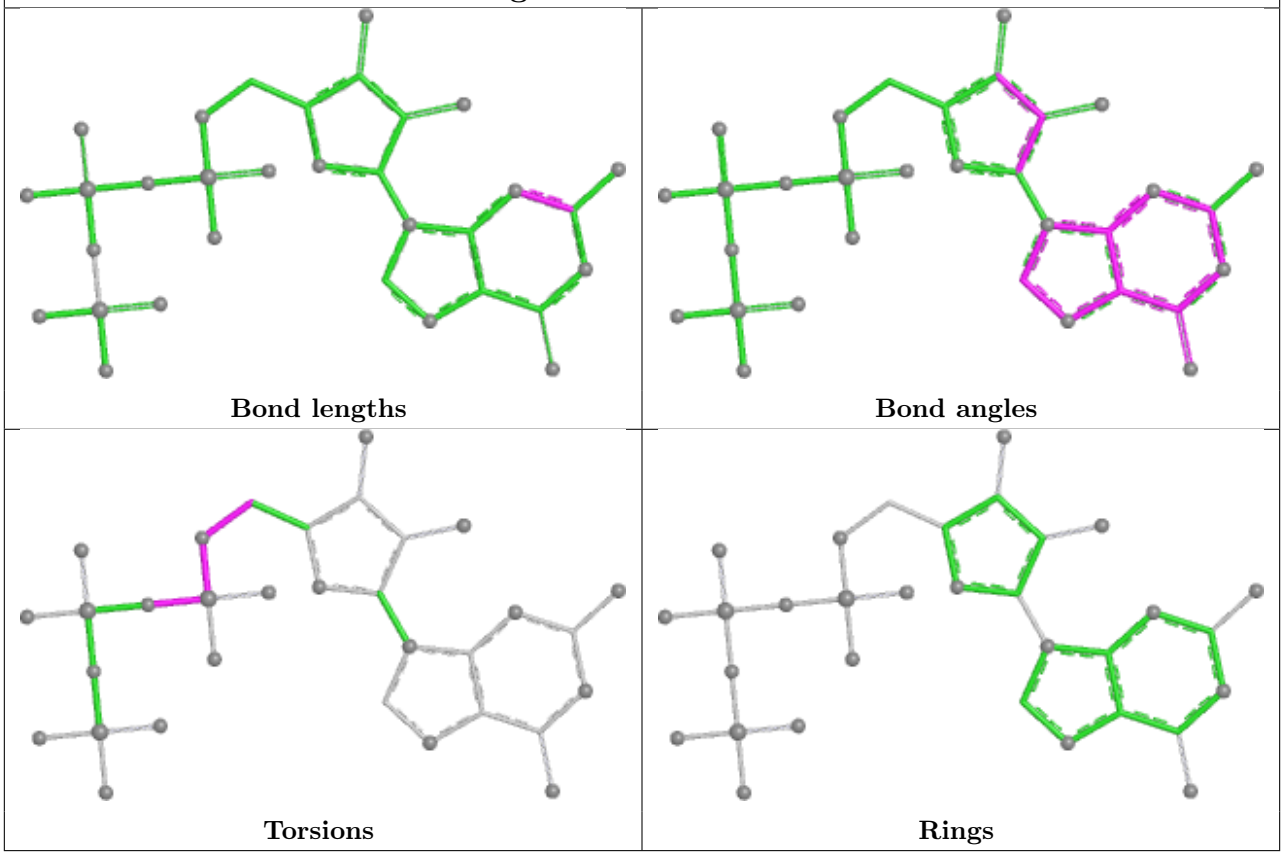
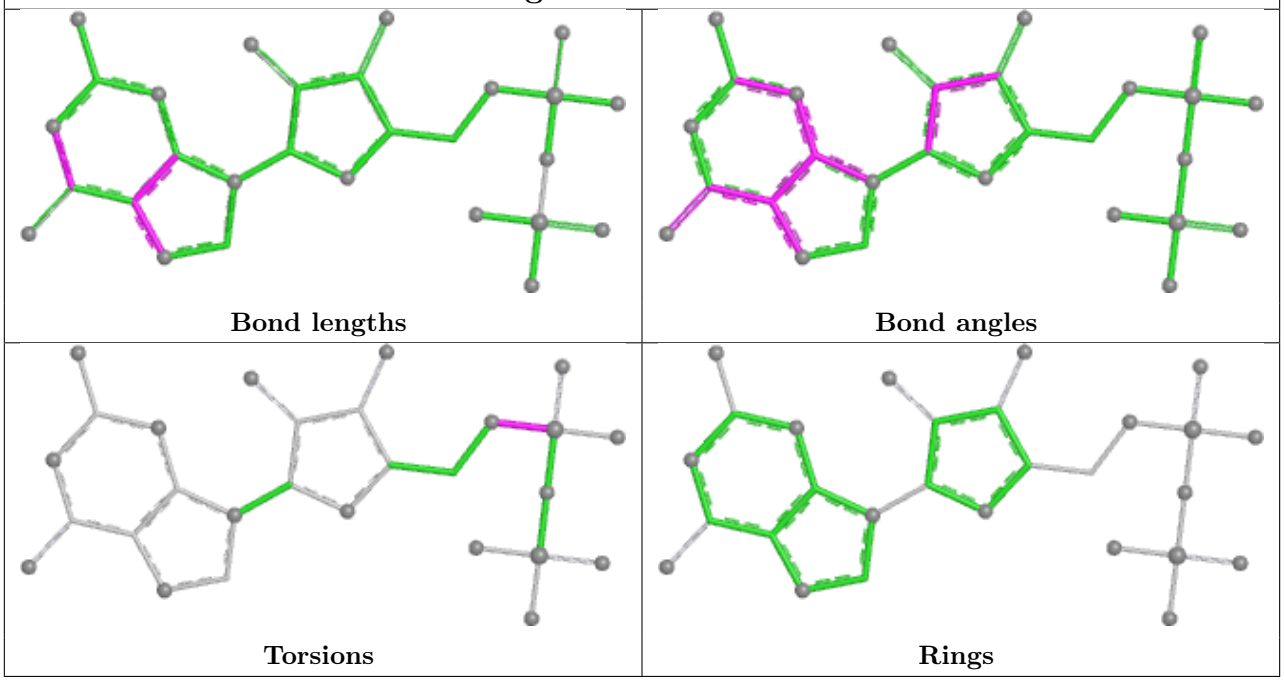


Rings

Ligand GTP KB 501



Ligand GDP S 500



5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

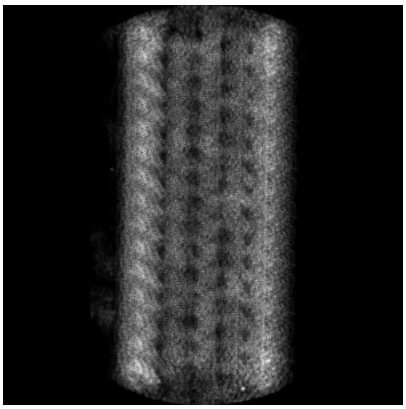
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-47661. These allow visual inspection of the internal detail of the map and identification of artifacts.

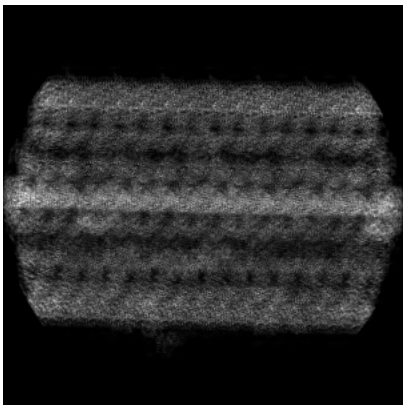
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

6.1.1 Primary map



X



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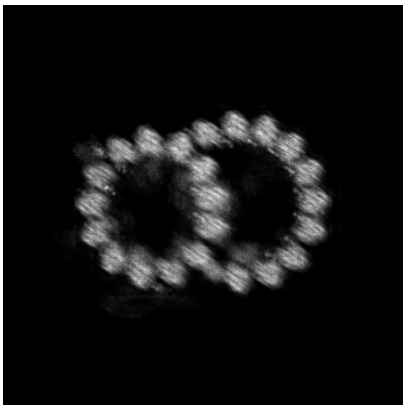
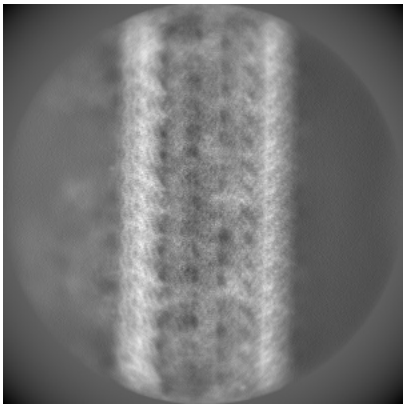
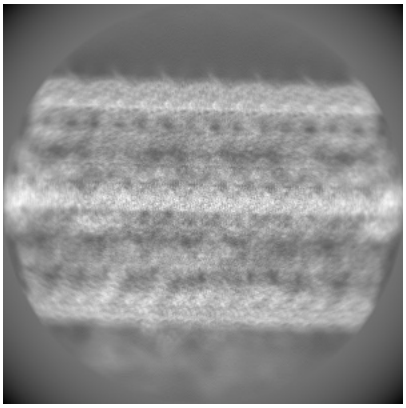


Z

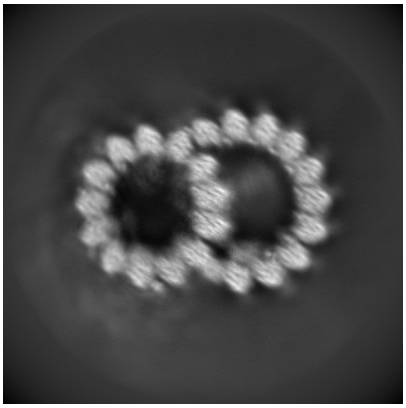
6.1.2 Raw map



X



Y

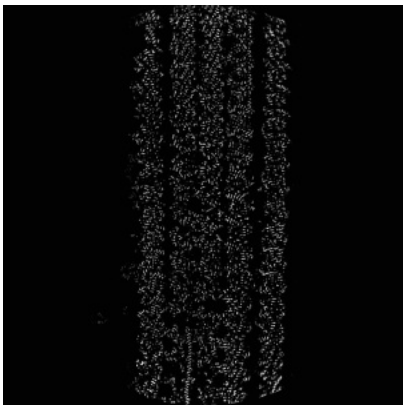


Z

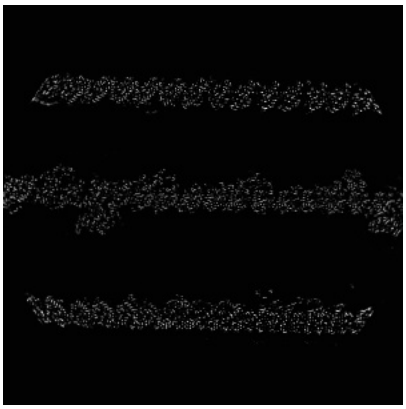
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

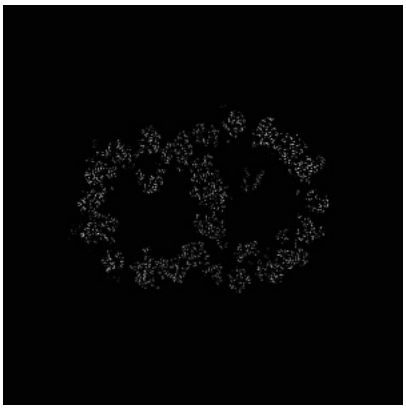
6.2.1 Primary map



X Index: 256

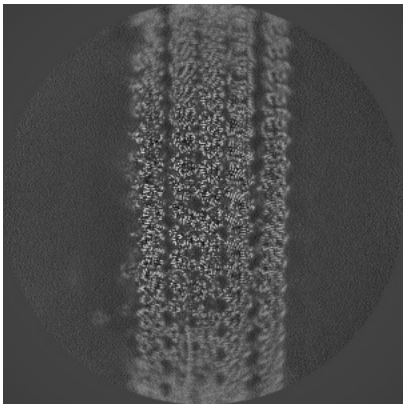


Y Index: 256

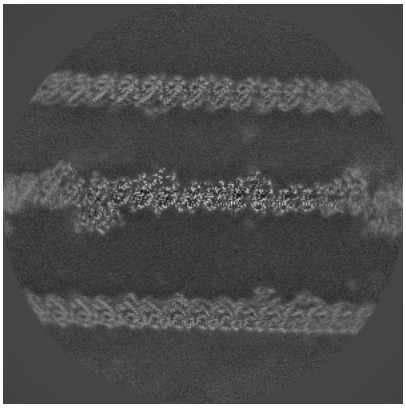


Z Index: 256

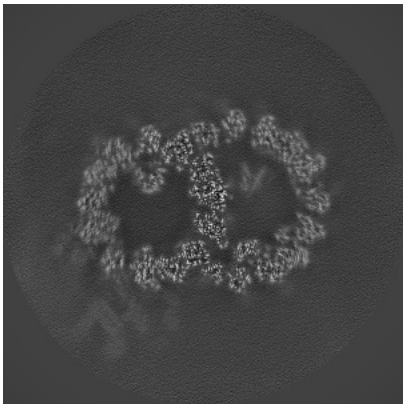
6.2.2 Raw map



X Index: 256



Y Index: 256

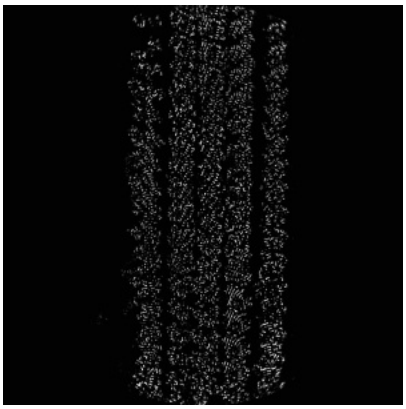


Z Index: 256

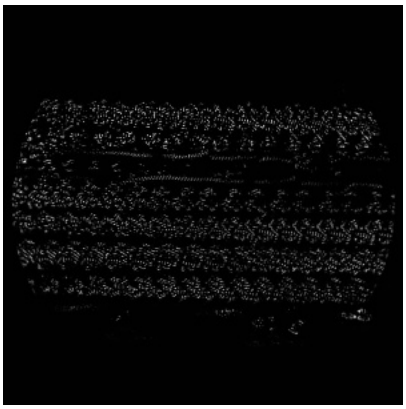
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

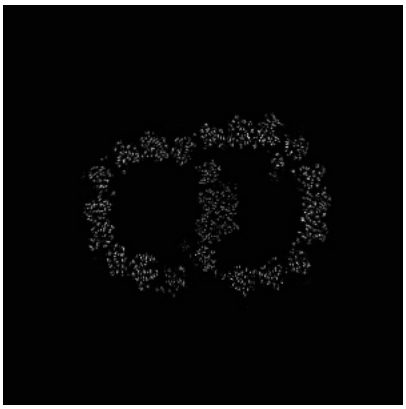
6.3.1 Primary map



X Index: 260

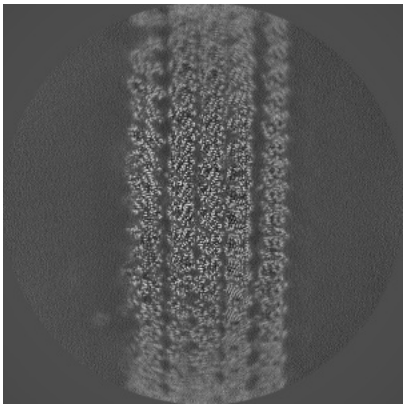


Y Index: 335

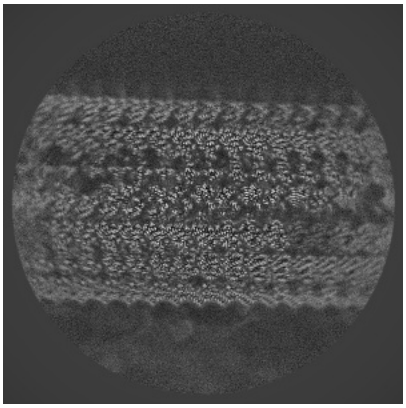


Z Index: 57

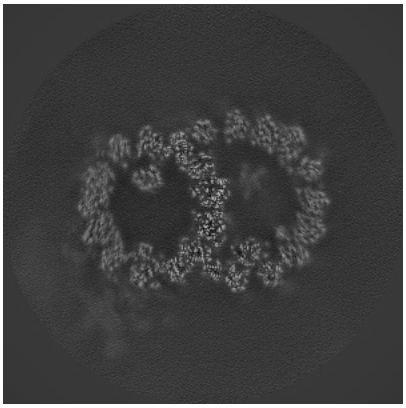
6.3.2 Raw map



X Index: 260



Y Index: 176

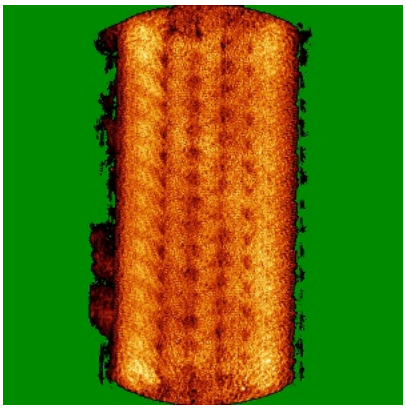


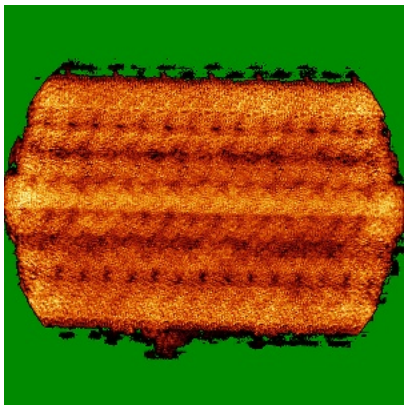
Z Index: 250

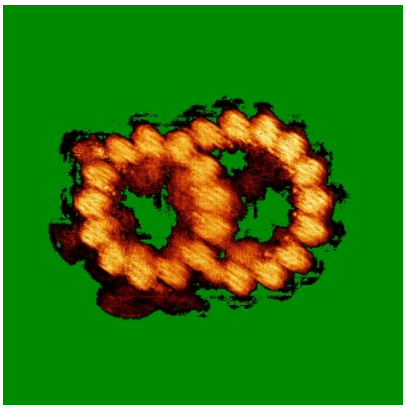
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

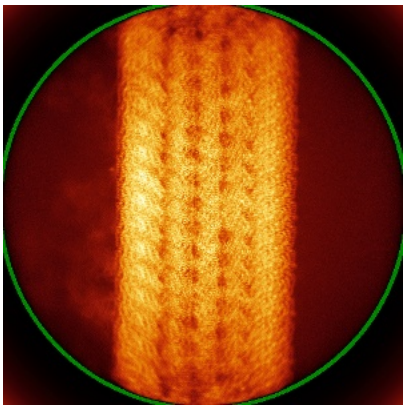
6.4.1 Primary map

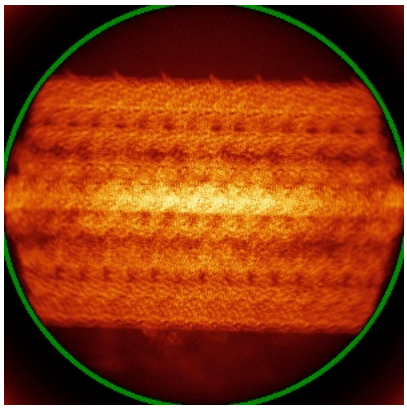

X

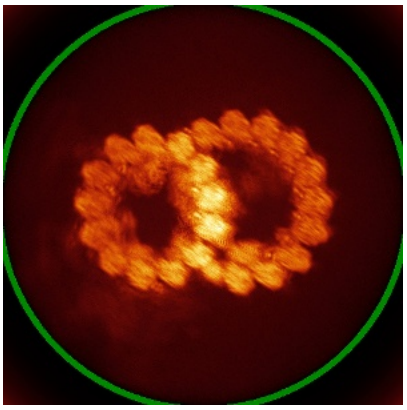

Y


Z

6.4.2 Raw map


X


Y


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views (i)

This section was not generated.

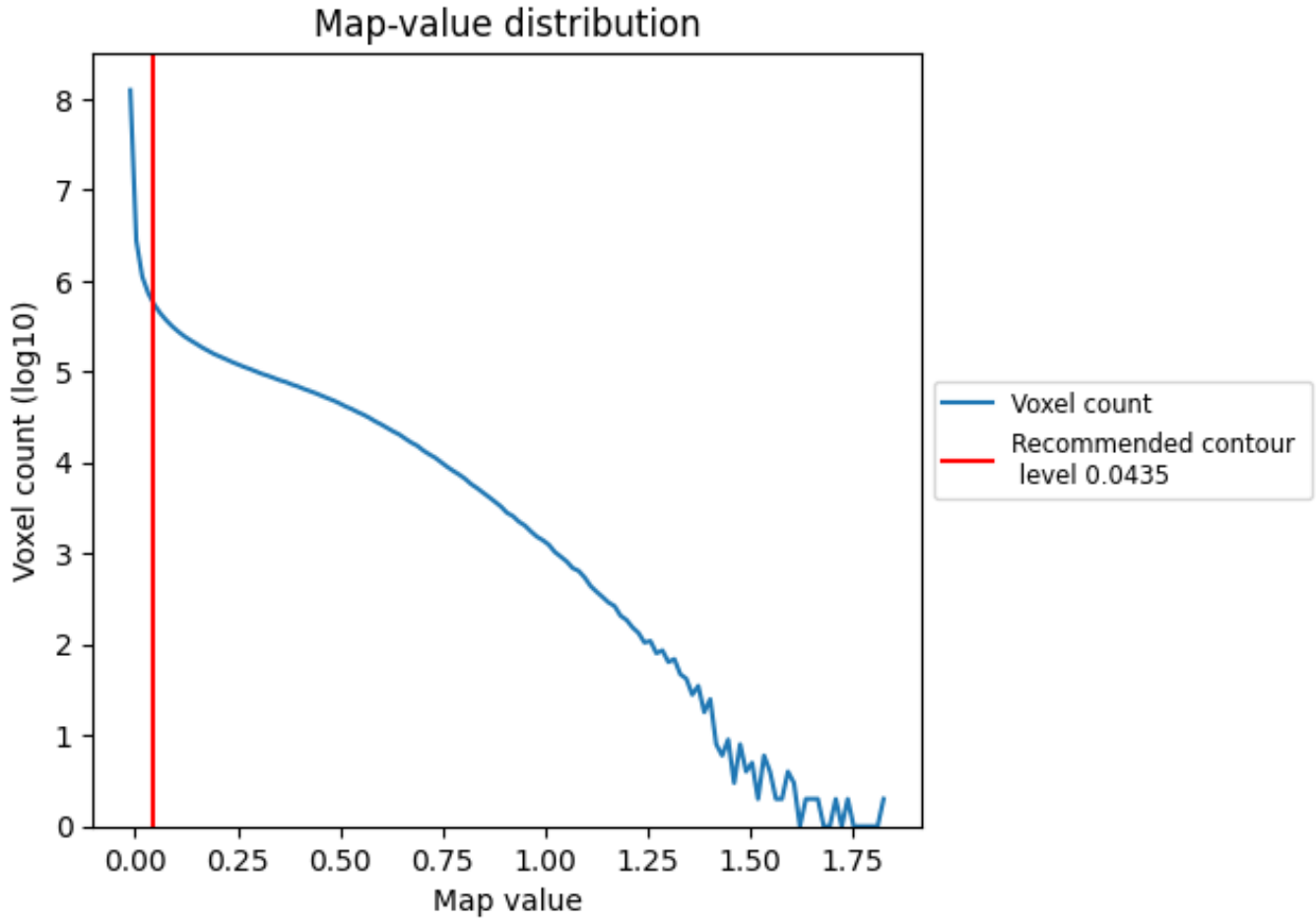
6.6 Mask visualisation (i)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis

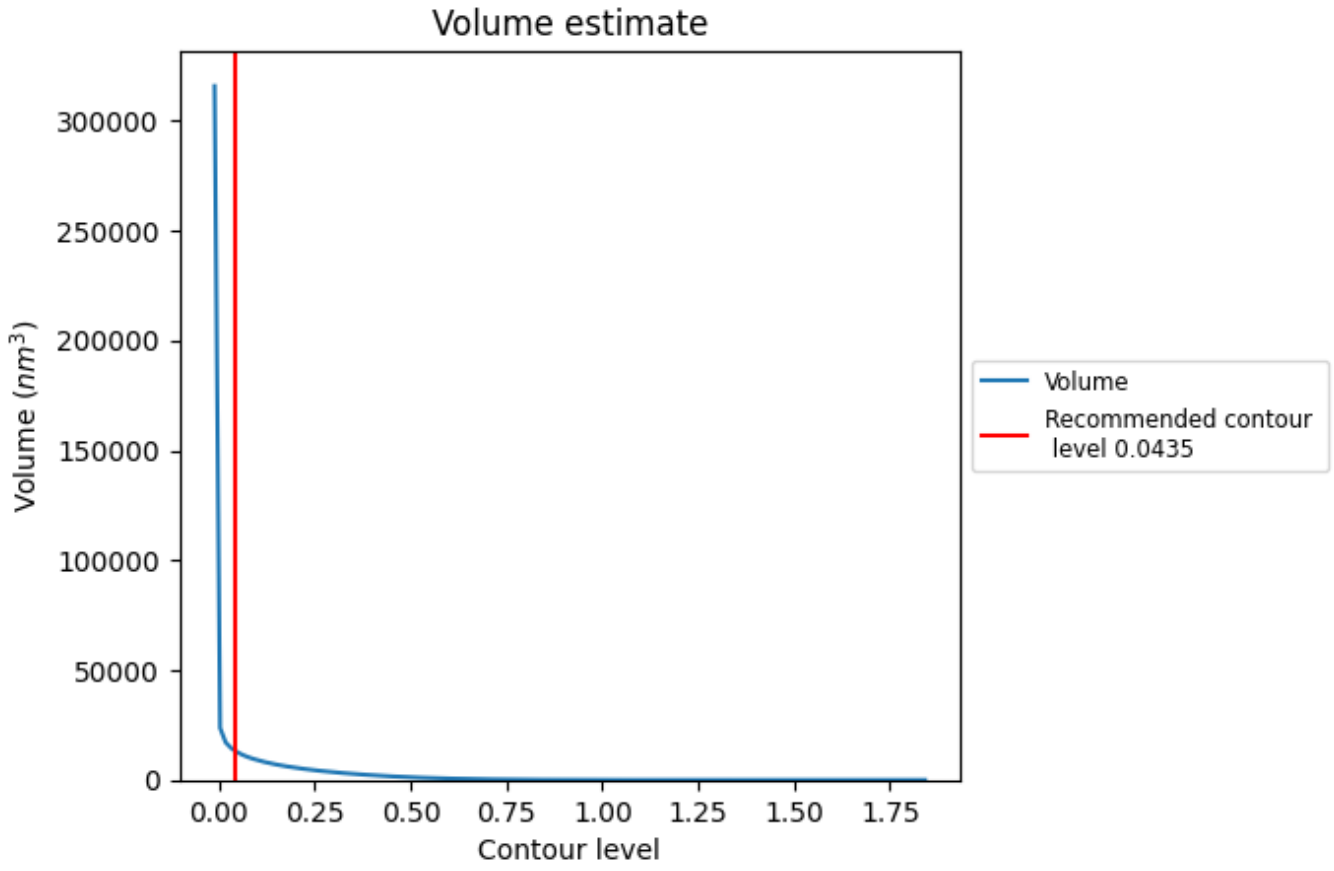
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

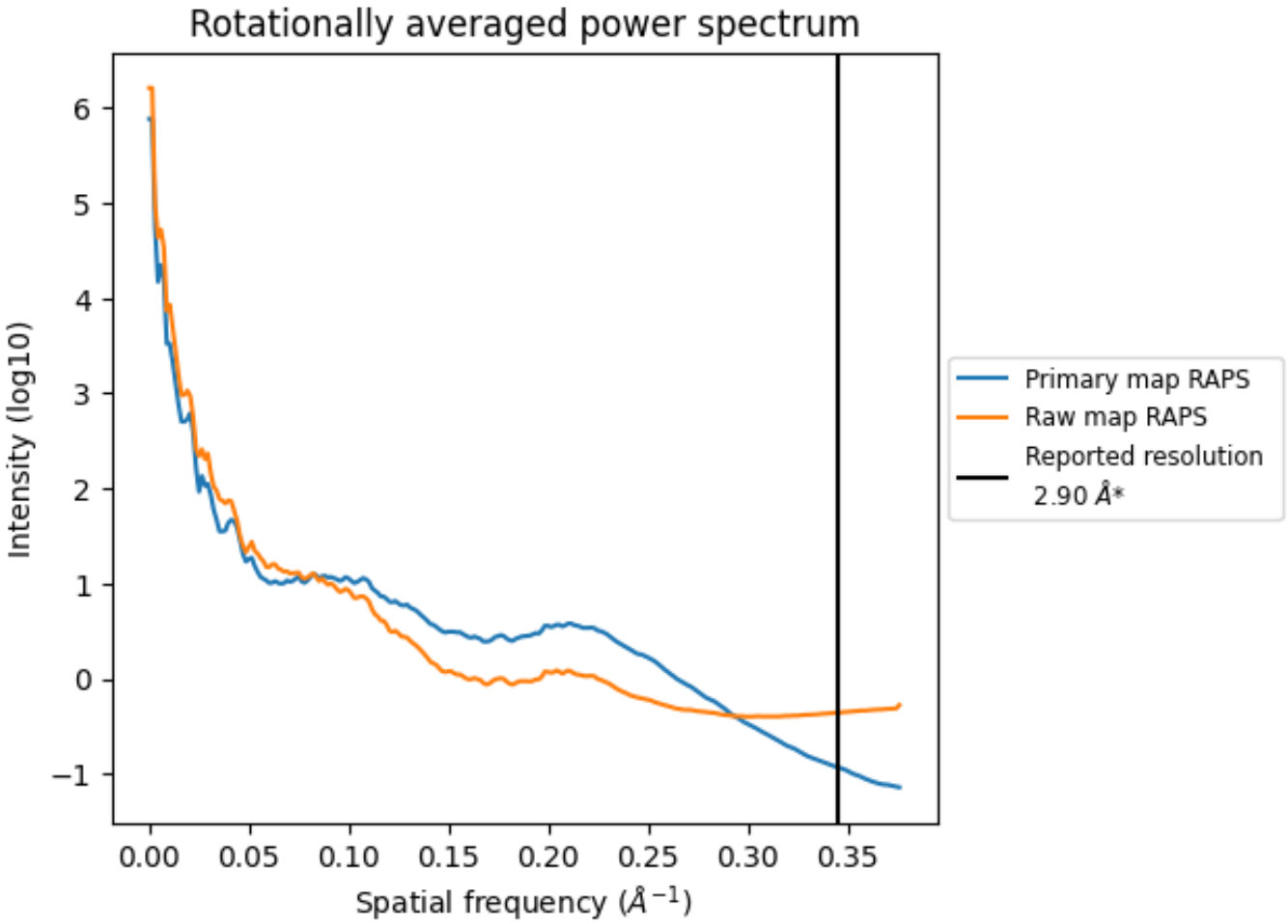
7.2 Volume estimate



The volume at the recommended contour level is 13083 nm^3; this corresponds to an approximate mass of 11818 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum (i)

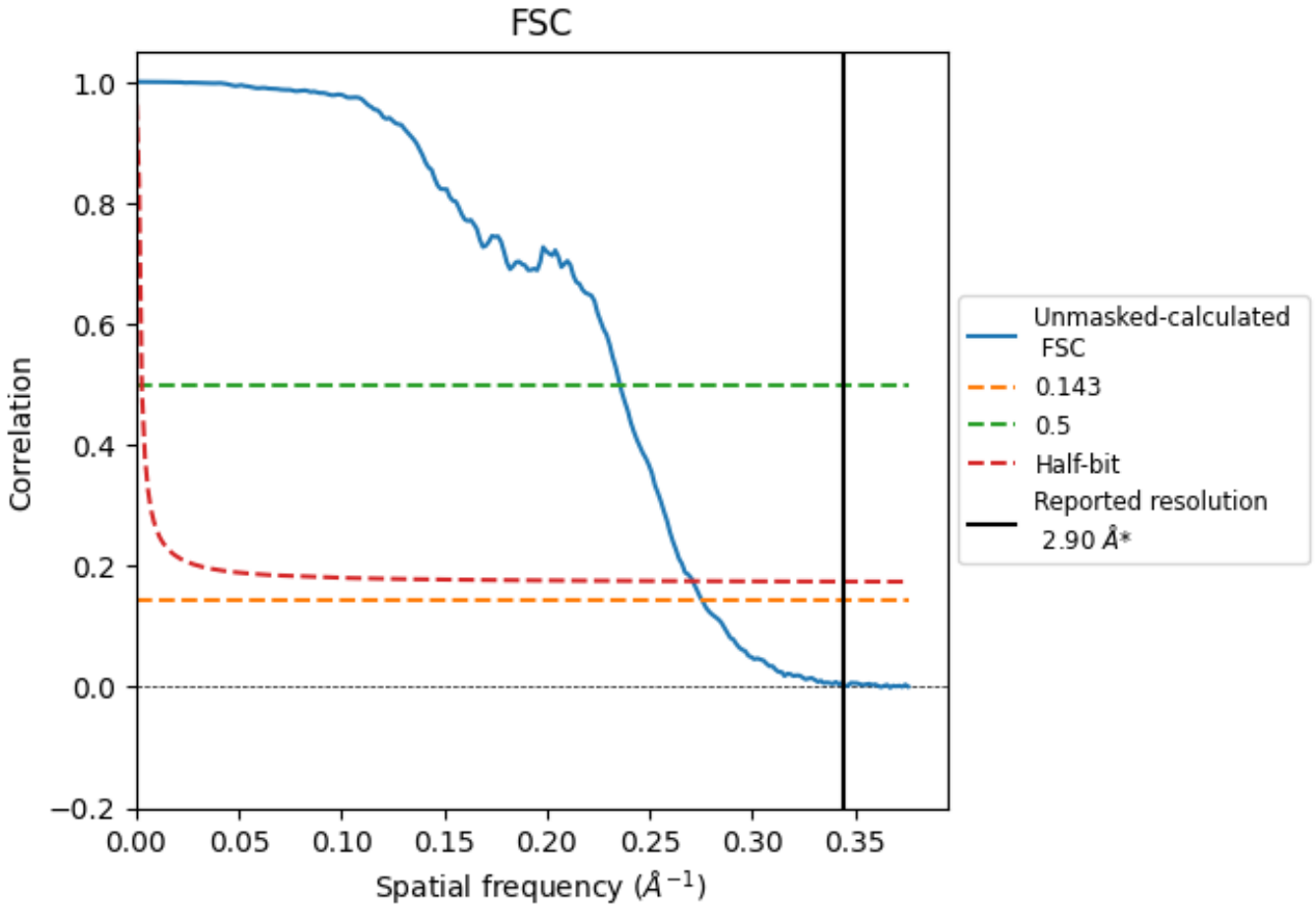


*Reported resolution corresponds to spatial frequency of 0.345 Å^{-1}

8 Fourier-Shell correlation

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.345 Å^{-1}

8.2 Resolution estimates (i)

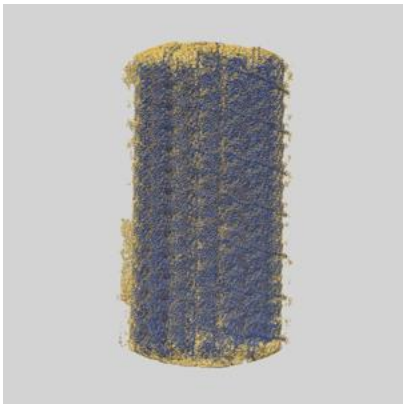
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.90	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	3.63	4.25	3.69

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 3.63 differs from the reported value 2.9 by more than 10 %

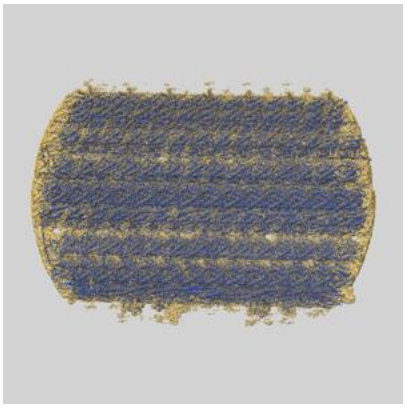
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-47661 and PDB model 9E78. Per-residue inclusion information can be found in section 3 on page 79.

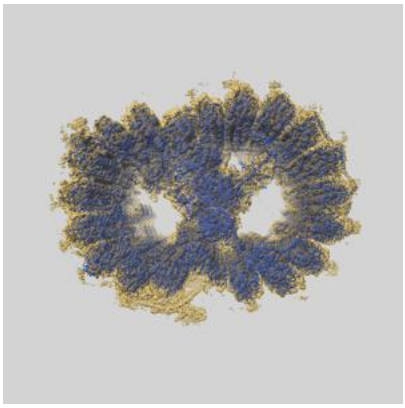
9.1 Map-model overlay



X



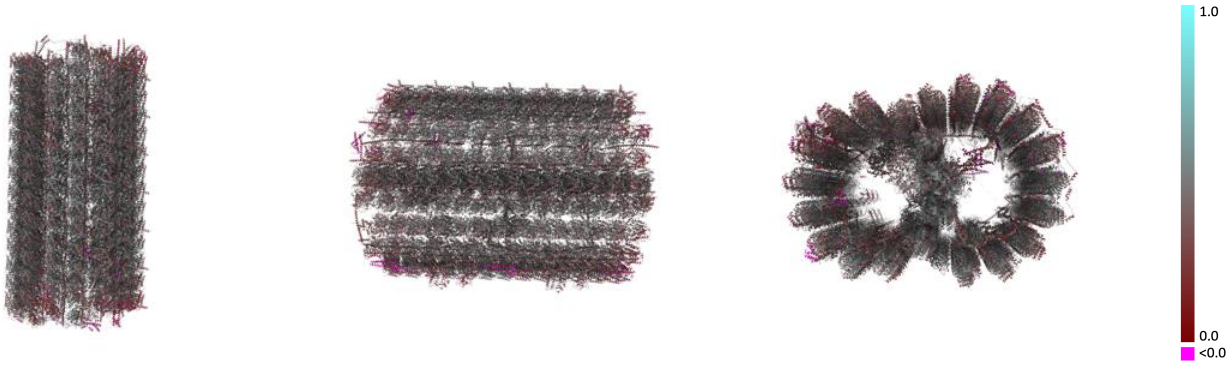
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.0435 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model (i)



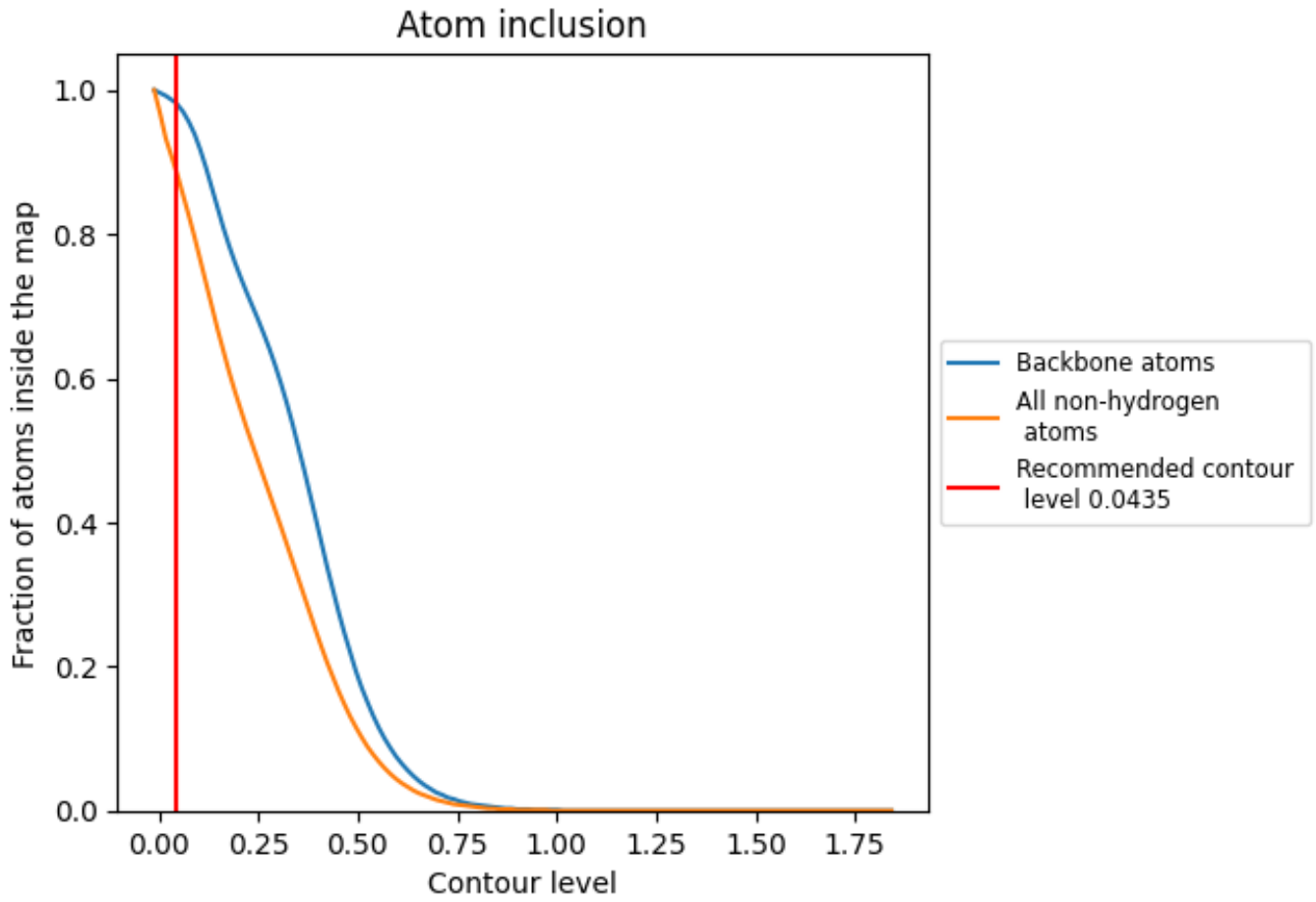
X Y Z

The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model (i)

This section was not generated.

9.4 Atom inclusion (i)



At the recommended contour level, 98% of all backbone atoms, 89% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.0435) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8880	0.4210
0	0.9160	0.4480
0A	0.8850	0.4350
0C	0.8910	0.3690
0D	0.8720	0.3660
0F	0.7950	0.3640
0G	0.7170	0.3190
0H	0.7580	0.2040
0I	0.7390	0.3240
0J	0.6720	0.2350
0L	0.8890	0.4600
0M	0.8840	0.4480
0N	0.8950	0.4530
0O	0.8840	0.3550
0R	0.8060	0.3460
0S	0.7640	0.2880
0U	0.9020	0.4490
0W	0.8800	0.4120
0Y	0.8680	0.4330
0Z	0.8530	0.4300
0a	0.9300	0.4500
0c	0.8520	0.3860
0d	0.8200	0.3890
0f	0.9100	0.4450
0g	0.9630	0.4340
0k	0.6530	0.3150
0l	0.6000	0.2870
0m	0.7810	0.3010
0n	0.7260	0.2490
0o	0.8230	0.2330
0p	0.7980	0.3660
0r	0.8720	0.4170
0t	0.9170	0.4450
0u	0.9330	0.3880
0v	0.8010	0.2720

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Chain	Atom inclusion	Q-score
0w	0.8000	0.3660
0x	0.8590	0.3840
0z	0.6470	0.2820
1A	0.9000	0.4510
1B	0.8750	0.4150
1D	0.9080	0.4130
1E	0.8990	0.4500
1F	0.9150	0.4370
1H	0.8070	0.3570
1I	0.8390	0.3890
1J	0.8380	0.3950
1K	0.8160	0.3610
1O	0.8620	0.4220
1Q	0.8580	0.4180
1S	0.8690	0.4380
1T	0.8940	0.3180
1U	0.7920	0.3710
1V	0.8590	0.3940
1X	0.8000	0.3550
1Y	0.8010	0.3670
1a	0.7680	0.3020
1b	0.8410	0.3670
1c	0.8800	0.3020
1d	0.7740	0.3520
1e	0.8810	0.4110
1g	0.7090	0.3340
1h	0.7740	0.3420
1j	0.9090	0.4510
1k	0.8890	0.4250
1l	0.9060	0.4540
1m	0.9510	0.4220
1o	0.8860	0.4380
1q	0.7780	0.3830
1r	0.6860	0.2710
1s	0.6750	0.2930
1t	0.5320	0.0680
1w	0.7560	0.3270
1x	0.7860	0.3480
1y	0.7280	0.2370
2B	0.8930	0.4620
2C	0.8960	0.4540
2F	0.9060	0.4620

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Chain	Atom inclusion	Q-score
2G	0.8950	0.4600
2H	0.8950	0.4490
2I	0.9160	0.4440
2L	0.8160	0.3620
2N	0.8980	0.4500
2O	0.8930	0.4300
2Q	0.8320	0.3880
2S	0.8920	0.4610
2U	0.8670	0.3950
2V	0.8510	0.3620
2X	0.8130	0.3930
2Z	0.8650	0.4380
2b	0.8390	0.3770
2c	0.7420	0.3070
2e	0.7770	0.3410
2f	0.8440	0.3040
2h	0.7640	0.3220
2i	0.7280	0.2720
2k	0.7740	0.3290
2l	0.7340	0.2760
2n	0.7450	0.2540
2o	0.7050	0.2880
2p	0.7240	0.1920
2r	0.8400	0.3680
2t	0.8660	0.3870
2v	0.9380	0.4070
2w	0.9270	0.4560
2y	0.8830	0.4480
2z	0.8970	0.4320
3B	0.8900	0.4300
3D	0.8480	0.4040
3F	0.5500	0.1620
3G	0.6840	0.2400
3H	0.5300	0.1880
3I	0.6770	0.2210
3L	0.8060	0.4230
3M	0.3800	0.2070
3P	0.9170	0.4040
3Q	0.9120	0.4390
3S	0.8660	0.4270
3U	0.8770	0.4240
3W	0.7950	0.3860

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Chain	Atom inclusion	Q-score
3X	0.7930	0.3590
3Z	0.7920	0.4000
3a	0.8620	0.4370
3b	0.8100	0.3510
3d	0.7290	0.3150
3f	0.7670	0.2750
3g	0.7660	0.3530
3h	0.7410	0.3130
3i	0.7600	0.2080
3m	0.7850	0.3700
3o	0.8040	0.3350
3p	0.8160	0.3940
3r	0.7720	0.3230
3s	0.7770	0.3470
3t	0.7420	0.2640
3w	0.8640	0.4210
3x	0.8260	0.3810
4A	0.8190	0.3750
4B	0.8280	0.4110
4I	0.5320	0.2360
4O	0.8310	0.3900
4P	0.8790	0.4120
4V	0.8320	0.3940
4W	0.8170	0.3940
4Y	0.7560	0.3100
4a	0.8030	0.3660
4b	0.8520	0.4110
5B	0.7560	0.2440
5C	0.6470	0.1700
5D	0.5490	0.0640
5G	0.7830	0.2690
5H	0.6710	0.1750
5I	0.5360	0.0410
5K	0.7980	0.3300
5L	0.7240	0.2430
5O	0.8050	0.3160
5P	0.6270	0.1820
5S	0.7540	0.3230
5T	0.6320	0.2100
A	0.9280	0.4400
AA	0.9150	0.4540
AB	0.9190	0.4630

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Chain	Atom inclusion	Q-score
AC	0.9080	0.4530
AD	0.9210	0.4610
AE	0.9100	0.4490
AF	0.9190	0.4580
AG	0.9000	0.4470
AH	0.9220	0.4510
AI	0.9140	0.4460
AJ	0.9210	0.4560
AK	0.9030	0.4480
AL	0.9250	0.4610
AM	0.9280	0.4610
AN	0.9270	0.4280
B	0.9080	0.4110
BA	0.9010	0.4380
BB	0.8440	0.4250
BC	0.8100	0.4050
BD	0.9030	0.4400
BE	0.9120	0.4380
BF	0.9110	0.4510
BG	0.9100	0.4370
BH	0.9120	0.4410
BI	0.8940	0.4200
BJ	0.9060	0.4360
BK	0.9100	0.4500
BL	0.9230	0.4550
BM	0.9160	0.4370
BN	0.8530	0.3720
C	0.9040	0.4260
CA	0.9150	0.4690
CB	0.9050	0.4580
CC	0.9090	0.4500
CD	0.9150	0.4340
CE	0.9150	0.4520
CF	0.9120	0.4510
CG	0.9090	0.4450
CH	0.9110	0.4270
CI	0.9150	0.4410
CJ	0.9160	0.4540
CK	0.9040	0.4350
CL	0.9130	0.4330
CM	0.9100	0.3410
D	0.8050	0.3160

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Chain	Atom inclusion	Q-score
DA	0.8960	0.4500
DB	0.8980	0.4630
DC	0.9000	0.4510
DD	0.9050	0.4450
DE	0.9100	0.4490
DF	0.9130	0.4570
DG	0.9070	0.4440
DH	0.9160	0.4430
DI	0.9190	0.4440
DJ	0.9180	0.4530
DK	0.9180	0.4490
DL	0.9160	0.4300
DM	0.8830	0.3200
E	0.8940	0.4210
EA	0.8950	0.4500
EB	0.8930	0.4610
EC	0.9010	0.4570
ED	0.9050	0.4560
EE	0.9030	0.4540
EF	0.9120	0.4600
EG	0.9140	0.4400
EH	0.9110	0.4340
EI	0.9070	0.4420
EJ	0.9070	0.4460
EK	0.9140	0.4360
EL	0.9040	0.3670
F	0.9040	0.4010
FA	0.8880	0.4290
FB	0.9090	0.4650
FC	0.9170	0.4680
FD	0.9010	0.4590
FE	0.9060	0.4660
FF	0.9220	0.4660
FG	0.9240	0.4580
FH	0.9230	0.4530
FI	0.9210	0.4520
FJ	0.9200	0.4490
FK	0.9210	0.4380
FL	0.9290	0.4100
G	0.7650	0.2810
GA	0.8330	0.3440
GB	0.8000	0.3760

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Chain	Atom inclusion	Q-score
GC	0.8420	0.3790
GD	0.8750	0.4130
GE	0.8940	0.4380
GF	0.8930	0.4410
GG	0.9000	0.4450
GH	0.9080	0.4350
GI	0.9060	0.4310
GJ	0.9070	0.4310
GK	0.9110	0.4320
GL	0.9020	0.3870
H	0.8110	0.2930
HA	0.8780	0.3640
HB	0.8430	0.3840
HC	0.8480	0.3890
HD	0.8810	0.4070
HE	0.8770	0.4100
HF	0.8910	0.4200
HG	0.8930	0.4230
HH	0.8970	0.4210
HI	0.8870	0.4120
HJ	0.8960	0.4160
HK	0.9110	0.4270
HL	0.8920	0.3840
HM	0.9110	0.3570
I	0.9050	0.3480
IA	0.9070	0.4040
IB	0.9200	0.4310
IC	0.9180	0.4330
ID	0.9100	0.4310
IE	0.9050	0.4260
IF	0.9050	0.4300
IG	0.9150	0.4450
IH	0.9120	0.4390
II	0.9070	0.4390
IJ	0.9100	0.4370
IK	0.9080	0.4180
IL	0.9030	0.3860
IM	0.9150	0.3820
J	0.9080	0.3680
JA	0.9170	0.4230
JB	0.9130	0.4330
JC	0.9130	0.4310

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Chain	Atom inclusion	Q-score
JD	0.9120	0.4360
JE	0.9120	0.4370
JF	0.9030	0.4410
JG	0.9050	0.4440
JH	0.8960	0.4340
JI	0.9050	0.4500
JJ	0.9020	0.4380
JK	0.9040	0.4190
JL	0.9090	0.4190
JM	0.9190	0.4020
JN	0.9210	0.3650
K	0.9360	0.4230
KA	0.9290	0.4480
KB	0.9280	0.4540
KC	0.9150	0.4550
KD	0.9230	0.4600
KE	0.9250	0.4590
KF	0.8960	0.4460
KG	0.9090	0.4570
KH	0.9000	0.4530
KI	0.9110	0.4650
KJ	0.9200	0.4600
KK	0.9110	0.4430
KL	0.9180	0.4360
KM	0.9210	0.4350
KN	0.9350	0.4250
L	0.9450	0.4420
LA	0.9500	0.4670
LB	0.9390	0.4660
LC	0.9340	0.4750
LD	0.9300	0.4680
LE	0.9330	0.4730
LF	0.9200	0.4730
LG	0.9140	0.4730
LH	0.9290	0.4770
LI	0.9350	0.4810
LJ	0.9240	0.4630
LK	0.9280	0.4720
LL	0.9320	0.4560
LM	0.9440	0.4620
LN	0.9420	0.4580
LO	0.9440	0.4340

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Chain	Atom inclusion	Q-score
M	0.9390	0.4720
MA	0.9330	0.4770
MB	0.9300	0.4780
MC	0.9160	0.4650
MD	0.9170	0.4610
ME	0.9240	0.4710
MF	0.9220	0.4710
MG	0.9050	0.4550
MH	0.9140	0.4560
MI	0.9060	0.4510
MJ	0.9270	0.4590
MK	0.9050	0.4380
ML	0.9150	0.4600
MM	0.9390	0.4680
MN	0.9400	0.4590
N	0.8900	0.3720
NA	0.8560	0.3730
NB	0.8830	0.4050
NC	0.8640	0.3980
ND	0.8830	0.4140
NE	0.8620	0.4020
NF	0.8600	0.4090
NG	0.8400	0.3940
NH	0.8730	0.4170
NI	0.8680	0.4170
NJ	0.8820	0.4230
NK	0.8640	0.3950
NL	0.8730	0.3780
NM	0.8660	0.3410
O	0.8820	0.3260
OA	0.9030	0.3900
OB	0.9070	0.4190
OC	0.9010	0.4210
OD	0.9040	0.4250
OE	0.9110	0.4310
OF	0.9010	0.4330
OG	0.8860	0.4200
OH	0.9090	0.4380
OI	0.8940	0.4370
OJ	0.8990	0.4300
OK	0.8870	0.4120
OL	0.8740	0.3610

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Chain	Atom inclusion	Q-score
OM	0.8740	0.3230
P	0.8820	0.3310
PA	0.9080	0.3870
PB	0.9120	0.4380
PC	0.9140	0.4440
PD	0.9130	0.4390
PE	0.9140	0.4380
PF	0.9100	0.4500
PG	0.8980	0.4460
PH	0.9110	0.4580
PI	0.9080	0.4590
PJ	0.9080	0.4590
PK	0.9050	0.4500
PL	0.8880	0.3930
PM	0.8900	0.3560
Q	0.8860	0.3640
QA	0.9160	0.4420
QB	0.9190	0.4540
QC	0.9150	0.4550
QD	0.9140	0.4460
QE	0.9130	0.4560
QF	0.9100	0.4560
QG	0.9150	0.4720
QH	0.8940	0.4530
QI	0.9130	0.4630
QJ	0.9240	0.4610
QK	0.8930	0.4020
QL	0.9100	0.3670
R	0.8710	0.3580
RA	0.9130	0.4400
RB	0.9140	0.4440
RC	0.9080	0.4450
RD	0.9100	0.4380
RE	0.9100	0.4500
RF	0.9080	0.4610
RG	0.9060	0.4690
RH	0.9060	0.4550
RI	0.9190	0.4530
RJ	0.9040	0.4310
RK	0.9040	0.4220
RL	0.9100	0.3860
S	0.9250	0.4520

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Chain	Atom inclusion	Q-score
SA	0.9210	0.4590
SB	0.9130	0.4540
SC	0.9160	0.4470
SD	0.9160	0.4610
SE	0.9140	0.4740
SF	0.9180	0.4760
SG	0.9240	0.4750
SH	0.9170	0.4470
SI	0.9210	0.4500
SJ	0.9110	0.4520
SK	0.9170	0.4210
T	0.9130	0.4200
TA	0.9000	0.4420
TB	0.9000	0.4420
TC	0.8910	0.4120
TD	0.8990	0.4220
TE	0.9120	0.4630
TF	0.9180	0.4650
TG	0.9140	0.4600
TH	0.9150	0.4440
TI	0.9130	0.4440
TJ	0.9130	0.4440
TK	0.9140	0.4340
TL	0.8410	0.2440
U	0.8820	0.3880
UA	0.8790	0.4190
UB	0.8760	0.4210
UC	0.8900	0.4210
UD	0.9020	0.4400
UE	0.8950	0.4400
UF	0.9010	0.4490
UG	0.9040	0.4410
UH	0.9030	0.4290
UI	0.9030	0.4310
UJ	0.8970	0.4320
UK	0.8920	0.4190
UL	0.8710	0.3490
V	0.9120	0.4190
VA	0.9070	0.4440
VB	0.9120	0.4620
VC	0.9150	0.4570
VD	0.9170	0.4550

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Chain	Atom inclusion	Q-score
VE	0.9070	0.4540
VF	0.9150	0.4660
VG	0.9070	0.4570
VH	0.9100	0.4530
VI	0.9140	0.4580
VJ	0.9180	0.4690
VK	0.9160	0.4680
VL	0.9160	0.4510
VM	0.8750	0.3870
W	0.9130	0.4280
WA	0.9160	0.4520
WB	0.9150	0.4580
WC	0.9160	0.4520
WD	0.9050	0.4400
WE	0.9100	0.4450
WF	0.9100	0.4480
WG	0.9080	0.4500
WH	0.9040	0.4460
WI	0.9120	0.4450
WJ	0.9160	0.4680
WK	0.9140	0.4680
WL	0.9030	0.4480
WM	0.9080	0.4230
X	0.9080	0.4630
X1	0.8840	0.4300
XA	0.8990	0.4670
XB	0.9250	0.4630
XC	0.9050	0.4600
XD	0.9140	0.4670
XE	0.9150	0.4710
XF	0.9140	0.4650
XM	0.8950	0.4500
XN	0.8770	0.4240
XO	0.8980	0.4450
XP	0.8640	0.4220
XQ	0.9010	0.4530
XR	0.9110	0.4260