



Full wwPDB EM Validation Report ⓘ

Nov 30, 2022 – 08:32 AM EST

PDB ID : 6U42
EMDB ID : EMD-20631
Title : Natively decorated ciliary doublet microtubule
Authors : Ma, M.; Stoyanova, M.; Rademacher, G.; Dutcher, S.K.; Brown, A.; Zhang, R.
Deposited on : 2019-08-22
Resolution : 3.40 Å(reported)

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

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

EMDB validation analysis : 0.0.1.dev43
Mogul : 1.8.5 (274361), CSD as541be (2020)
MolProbity : 4.02b-467
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : **FAILED**
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.31.2

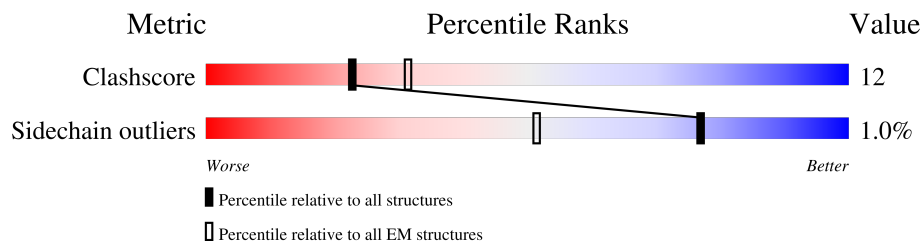
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY











The reported resolution of this entry is 3.40 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)
Clashscore	158937	4297
Sidechain outliers	154315	3826

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 $\leq 5\%$

Mol	Chain	Length	Quality of chain
1	0A	443	 63% 33% .
1	0C	443	 64% 32% .
1	0E	443	 57% 39% .
1	0G	443	 63% 33% .
1	0I	443	 63% 33% .
1	0K	443	 62% 34% .
1	0M	443	 62% 34% .
1	0O	443	 61% 35% .
1	0Q	443	 64% 33% .
1	0S	443	 62% 34% .

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Mol	Chain	Length	Quality of chain
1	0U	443	 61% 35%
1	0W	443	 63% 33%
1	0Y	443	 65% 31%
1	1	443	 29% 69%
1	1A	443	 70% 26%
1	1C	443	 65% 31%
1	1E	443	 60% 36%
1	1G	443	 65% 31%
1	1K	443	 64% 32%
1	1M	443	 66% 30%
1	1O	443	 68% 28%
1	1Q	443	 66% 30%
1	1S	443	 69% 28%
1	1U	443	 65% 31%
1	1W	443	 65% 31%
1	2A	443	 67% 28%
1	2C	443	 67% 29%
1	2E	443	 66% 30%
1	2G	443	 71% 25%
1	2I	443	 68% 28%
1	2K	443	 73% 23%
1	2M	443	 64% 32%
1	2Q	443	 67% 29%
1	2S	443	 71% 25%
1	2U	443	 68% 28%

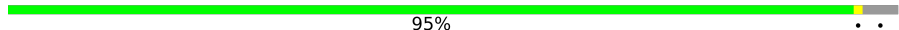

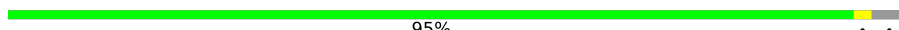
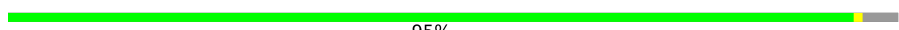
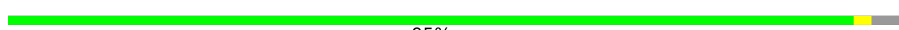





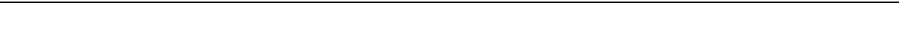

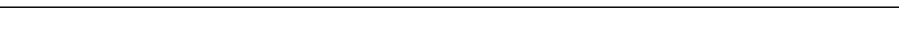
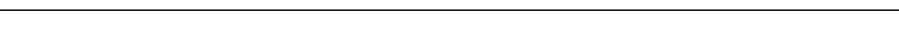
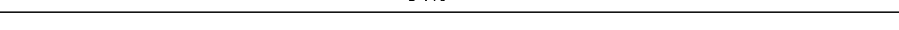
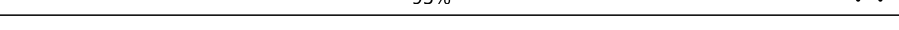
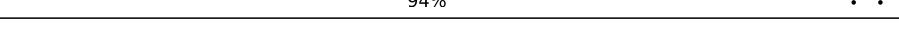
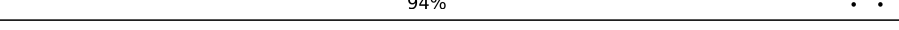
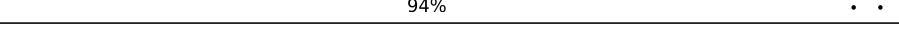
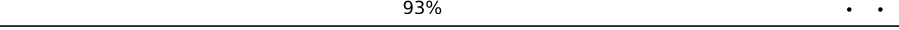





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Mol	Chain	Length	Quality of chain
1	2W	443	73% 23%
1	2Y	443	67% 28%
1	3	443	95%
1	3A	443	66% 30%
1	3C	443	61% 34%
1	3G	443	70% 26%
1	3I	443	70% 26%
1	3K	443	66% 30%
1	3M	443	71% 25%
1	3O	443	69% 27%
1	3Q	443	67% 30%
1	3S	443	59% 37%
1	5	443	93% 5%
1	7	443	95%
1	9	443	94%
1	A1	443	95%
1	A3	443	92% 6%
1	A5	443	96%
1	A7	443	95%
1	A9	443	94%
1	B1	443	94%
1	B3	443	94%
1	B5	443	94%
1	B8	443	93%
1	C0	443	95%

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Mol	Chain	Length	Quality of chain
1	C2	443	95% 
1	C4	443	95% 
1	C6	443	95% 
1	C8	443	95% 
1	D0	443	95% 
1	D2	443	95% 
1	D4	443	93% 
1	D6	443	94% 
1	D8	443	95% 
1	E0	443	94% 
1	E2	443	94% 
1	E4	443	95% 
1	E6	443	94% 
1	E8	443	94% 
1	F0	443	95% 
1	F2	443	94% 
1	F6	443	94% 
1	F8	443	94% 
1	G0	443	93% 
1	G2	443	65%  31%
1	G4	443	67%  29%
1	G6	443	63%  33%
1	G8	443	63%  33%
1	H2	443	65%  31%
1	H4	443	67%  29%

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Mol	Chain	Length	Quality of chain	
1	H6	443	69%	27%
1	H8	443	74%	21%
1	I0	443	72%	24%
1	I2	443	69%	27%
1	I4	443	64%	32%
1	I8	443	66%	30%
1	J0	443	69%	27%
1	J2	443	73%	23%
1	J4	443	70%	26%
1	J6	443	71%	25%
1	J8	443	74%	22%
1	K0	443	74%	22%
1	K4	443	70%	26%
1	K6	443	73%	23%
1	K8	443	71%	25%
1	L0	443	72%	24%
1	L2	443	70%	26%
1	L4	443	70%	26%
1	L6	443	68%	28%
1	M0	443	69%	27%
1	M2	443	72%	24%
1	M4	443	72%	24%
1	M6	443	69%	27%
1	M8	443	72%	24%
1	N0	443	71%	25%

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Mol	Chain	Length	Quality of chain	
1	N2	443	70%	27%
1	N6	443	73%	23%
1	N8	443	72%	24%
1	O0	443	75%	21%
1	O2	443	72%	24%
1	O4	443	69%	27%
1	O6	443	75%	21%
1	O8	443	75%	21%
1	P4	443	65%	31%
1	P6	443	71%	25%
1	P8	443	70%	26%
1	Q0	443	74%	23%
1	Q2	443	70%	27%
1	Q4	443	70%	26%
1	Q6	443	70%	26%
1	Q8	443	61%	33%
1	R0	443	72%	26%
1	R2	443	71%	25%
1	R4	443	67%	29%
1	R6	443	69%	27%
1	R8	443	70%	27%
1	S0	443	69%	26%
1	S2	443	70%	27%
1	S4	443	60%	36%
1	S6	443	68%	28%

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Mol	Chain	Length	Quality of chain	
1	S8	443	67%	29%
1	T0	443	69%	28%
1	T2	443	65%	31%
1	T4	443	68%	28%
1	T6	443	59%	37%
1	T8	443	68%	28%
1	U2	443	68%	28%
1	U4	443	69%	27%
1	U6	443	66%	30%
1	U8	443	69%	28%
1	V0	443	73%	23%
1	V2	443	68%	28%
1	V4	443	74%	22%
1	V6	443	57%	39%
1	V8	443	67%	29%
1	W0	443	68%	28%
1	W2	443	71%	25%
1	W4	443	66%	30%
1	W6	443	69%	27%
1	W8	443	70%	26%
1	X0	443	68%	28%
1	X2	443	61%	35%
1	X4	443	63%	33%
1	X6	443	66%	30%
1	X8	443	70%	26%









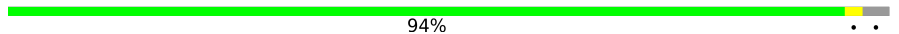
















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Mol	Chain	Length	Quality of chain		
1	Y0	443	66%	30%	
1	Y2	443	71%	25%	
1	Y4	443	70%	27%	
1	Y6	443	73%	23%	
1	Y8	443	59%	37%	
1	Z0	443	59%	37%	
1	Z2	443	59%	37%	
1	Z4	443	61%	35%	
1	Z6	443	61%	35%	
1	Z8	443	56%	40%	
2	0B	451	62%	33%	5%
2	0F	451	59%	35%	5%
2	0H	451	61%	33%	5%
2	0J	451	60%	35%	5%
2	0L	451	59%	36%	5%
2	0N	451	57%	37%	5%
2	0P	451	65%	30%	5%
2	0R	451	59%	36%	5%
2	0V	451	59%	35%	5%
2	0X	451	61%	33%	5%
2	0Z	451	64%	30%	5%
2	1B	451	65%	29%	5%
2	1D	451	62%	32%	5%
2	1F	451	58%	36%	5%
2	1H	451	59%	35%	5%

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Mol	Chain	Length	Quality of chain
2	1L	451	 66% 29% 5%
2	1N	451	 64% 30% 5%
2	1P	451	 68% 26% 5%
2	1R	451	 63% 30% 5%
2	1T	451	 65% 29% 5%
2	1V	451	 63% 31% 5%
2	1X	451	 60% 34% 5%
2	1Z	451	 65% 29% 5%
2	2	451	 94% . .
2	2B	451	 69% 26% 5%
2	2D	451	 70% 24% 5%
2	2F	451	 67% 28% 5%
2	2H	451	 67% 27% 5%
2	2J	451	 68% 26% 5%
2	2L	451	 69% 26% 5%
2	2N	451	 61% 33% 5%
2	2P	451	 64% 30% 5%
2	2R	451	 70% 25% 5%
2	2T	451	 67% 27% 5%
2	2V	451	 69% 25% 5%
2	2X	451	 67% 30% .
2	2Z	451	 64% 30% 5%
2	3B	451	 63% 33% .
2	3D	451	 62% 33% 5%
2	3F	451	 67% 28% 5%

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Mol	Chain	Length	Quality of chain
2	3H	451	67% 27% 5%
2	3J	451	70% 25% 5%
2	3L	451	71% 24% 5%
2	3N	451	69% 25% 5%
2	3P	451	67% 28% 5%
2	3R	451	63% 34% 5%
2	3T	451	58% 36% 5%
2	4	451	93% 5% 2%
2	6	451	95% 3% 2%
2	8	451	91% 5% 3%
2	A0	451	95% 3% 2%
2	A2	451	91% 5% 3%
2	A4	451	93% 5% 2%
2	A8	451	93% 5% 2%
2	B0	451	93% 5% 2%
2	B2	451	93% 5% 2%
2	B4	451	93% 5% 2%
2	B7	451	92% 5% 3%
2	B9	451	93% 5% 2%
2	C1	451	93% 5% 2%
2	C5	451	94% 3% 3%
2	C7	451	95% 3% 2%
2	C9	451	93% 5% 2%
2	D1	451	93% 5% 2%
2	D3	451	94% 3% 3%









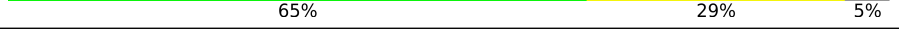

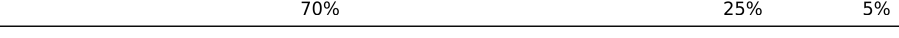
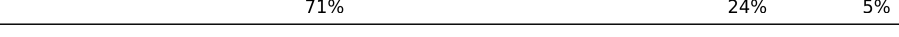

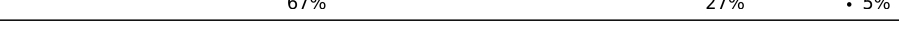


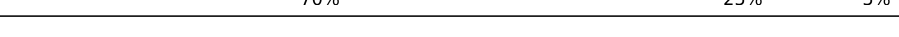

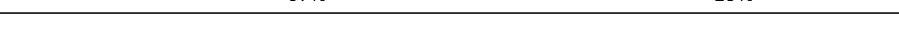






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Mol	Chain	Length	Quality of chain	
2	D5	451	93%	5%
2	D7	451	94%	5%
2	E1	451	93%	5%
2	E3	451	93%	5%
2	E5	451	92%	5%
2	E7	451	92%	5%
2	E9	451	92%	5%
2	F1	451	92%	5%
2	F3	451	92%	5%
2	F5	451	92%	5%
2	F7	451	92%	5%
2	F9	451	94%	..
2	G1	451	76%	20% ..
2	G3	451	65%	31% ..
2	G5	451	66%	29% 5%
2	G7	451	61%	33% 5%
2	G9	451	56%	39% 5%
2	H1	451	62%	33% 5%
2	H3	451	65%	29% 5%
2	H5	451	68%	27% 5%
2	H7	451	69%	25% 5%
2	H9	451	68%	27% 5%
2	I1	451	66%	28% 5%
2	I3	451	67%	27% 5%
2	I5	451	59%	35% 5%


























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Mol	Chain	Length	Quality of chain
2	I7	451	 68% 27% 5%
2	I9	451	 63% 31% 5%
2	J1	451	 63% 32% 5%
2	J3	451	 68% 27% 5%
2	J5	451	 68% 29% 5%
2	J7	451	 65% 29% 5%
2	J9	451	 64% 33% 5%
2	K1	451	 62% 32% 5%
2	K3	451	 65% 29% 5%
2	K5	451	 70% 24% 5%
2	K7	451	 70% 25% 5%
2	K9	451	 71% 24% 5%
2	L1	451	 72% 22% 5%
2	L3	451	 67% 27% 5%
2	L5	451	 67% 28% 5%
2	L7	451	 59% 35% 5%
2	L9	451	 70% 25% 5%
2	M1	451	 71% 24% 5%
2	M3	451	 67% 29% 5%
2	M5	451	 69% 26% 5%
2	M7	451	 71% 25% 5%
2	M9	451	 67% 30% 5%
2	N1	451	 68% 27% 5%
2	N3	451	 61% 33% 5%
2	N5	451	 66% 28% 5%

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Mol	Chain	Length	Quality of chain
2	N7	451	 64% 30% 5%
2	N9	451	 65% 30% 5%
2	O1	451	 70% 24% 5%
2	O3	451	 65% 30% 5%
2	O5	451	 65% 29% 5%
2	O7	451	 67% 28% 5%
2	O9	451	 71% 24% 5%
2	P3	451	 70% 25% 5%
2	P5	451	 69% 27% 5%
2	P7	451	 71% 24% 5%
2	P9	451	 69% 28% 5%
2	Q1	451	 72% 23% 5%
2	Q3	451	 69% 26% 5%
2	Q5	451	 69% 26% 5%
2	Q9	451	 64% 31% 5%
2	R1	451	 65% 29% 5%
2	R3	451	 68% 27% 5%
2	R5	451	 69% 27% 5%
2	R7	451	 70% 24% 5%
2	R9	451	 68% 29% 5%
2	S1	451	 68% 26% 5%
2	S5	451	 69% 25% 5%
2	S7	451	 66% 30% 5%
2	S9	451	 65% 29% 5%
2	T1	451	 65% 29% 5%

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Mol	Chain	Length	Quality of chain		
2	T3	451	70%	23%	5%
2	T5	451	66%	29%	5%
2	T7	451	68%	26%	5%
2	U1	451	70%	25%	5%
2	U3	451	71%	24%	5%
2	U5	451	68%	27%	5%
2	U7	451	69%	25%	5%
2	U9	451	65%	29%	5%
2	V1	451	65%	29%	5%
2	V3	451	65%	29%	5%
2	V7	451	64%	31%	5%
2	V9	451	69%	26%	5%
2	W1	451	69%	25%	5%
2	W3	451	71%	24%	5%
2	W5	451	73%	22%	5%
2	W7	451	63%	32%	5%
2	W9	451	61%	32%	5%
2	X3	451	58%	37%	5%
2	X5	451	62%	32%	5%
2	X7	451	64%	30%	5%
2	X9	451	67%	27%	5%
2	Y1	451	66%	29%	5%
2	Y3	451	65%	29%	5%
2	Y5	451	66%	28%	5%
2	Y9	451	58%	36%	5%




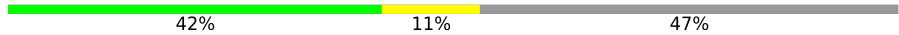





















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Mol	Chain	Length	Quality of chain
2	Z1	451	64% 31% 5%
2	Z3	451	60% 35% 5%
2	Z5	451	59% 35% 5%
2	Z7	451	61% 33% 5%
2	Z9	451	64% 30% 5%
3	3V	307	66% 27% . .
3	3X	307	64% 29% . .
3	3Z	307	65% 29% . .
3	4B	307	66% 27% . .
3	4D	307	65% 28% . .
3	4F	307	64% 29% . .
3	4H	307	64% 29% . .
3	4J	307	46% 21% 34%
4	3W	190	59% 35% . .
4	3Y	190	61% 34% . .
4	4A	190	61% 34% . .
4	4C	190	59% 35% . .
4	4E	190	62% 33% . .
4	4G	190	61% 34% . .
4	4I	190	61% 34% . .
5	4L	482	34% 16% 51%
5	4M	482	47% 18% 34%
6	4N	505	7% . 90%
6	4O	505	67% 28% 5%
6	4P	505	30% 8% 62%


























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Mol	Chain	Length	Quality of chain
7	4Q	367	 15% 83%
7	4R	367	 74% 25%
7	4S	367	 9% 88%
7	4T	367	 42% 11% 47%
7	4U	367	 59% 18% 23%
8	4V	475	 13% 83%
8	4W	475	 51% 23% 26%
8	4X	475	 9% 88%
9	4Y	462	 18% 9% 73%
9	4Z	462	 55% 29% 16%
10	5A	501	 31% 15% 54%
10	5B	501	 33% 17% 50%
10	5C	501	 51% 23% 26%
10	5D	501	 14% 7% 79%
11	5E	274	 69% 24% 6%
12	5F	391	 70% 26%
12	5G	391	 24% 12% 64%
12	7B	391	 17% 8% 75%
13	5H	137	 61% 30% 8%
13	5I	137	 57% 34% 7%
13	5J	137	 60% 31% 8%
13	5K	137	 58% 33% 8%
14	5L	633	 50% 44% 5%
14	5M	633	 51% 43%
14	5N	633	 51% 43% 5%

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Mol	Chain	Length	Quality of chain
15	5O	380	
15	5P	380	
16	5Q	197	
17	5R	240	
17	5S	240	
17	5T	240	
17	5U	240	
17	5V	240	
18	5X	230	
18	5Y	230	
18	5Z	230	
18	6A	230	
18	6B	230	
18	6C	230	
18	6D	230	
19	6E	268	
20	6F	403	
21	6G	214	
21	6H	214	
22	6I	352	
22	6J	352	
22	6K	352	
22	6L	352	
22	6M	352	
22	6N	352	

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Mol	Chain	Length	Quality of chain
22	6O	352	68% 25% 7%
22	6P	352	55% 28% 16%
23	6Q	87	61% 29% 8%
23	6R	87	63% 26% 8%
23	6S	87	68% 24% 6%
24	6T	635	57% 31% 11%
24	6U	635	57% 32% 10%
24	6V	635	57% 31% 12%
24	6W	635	62% 26% 11%
24	6X	635	55% 33% 10%
24	6Y	635	56% 32% 11%
24	6Z	635	57% 31% 11%
24	7A	635	20% 10% 70%
25	7C	111	65% 23% 12%
26	7D	146	53% 33% 5% 10%
26	7E	146	52% 34% 5% 10%
26	7F	146	47% 37% 6% 10%
27	7G	235	63% 32% 5%
28	7H	471	19% 9% 71%
28	7X	471	18% 9% 71%
29	7I	483	34% 13% 53%
29	7J	483	54% 21% 25%
30	7K	458	64% 28% 8%
30	7L	458	30% 9% 62%
31	7M	139	36% 24% 39%

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Mol	Chain	Length	Quality of chain
31	7N	139	 57% 33% 9%
32	7O	238	 17% 8% 75%
32	7P	238	 60% 17% 24%
33	7Q	189	 24% 14% 62%
34	7R	749	 19% 7% 74%
34	7S	749	 16% 5% 79%
35	7T	552	 28% 10% 61%
35	7U	552	 25% 7% 67%
36	7V	184	 26% 18% 52%
36	7W	184	 24% 20% 52%
37	7Y	312	 46% 32% 21%
38	7Z	242	 7% 10% 84%
38	8A	242	 45% 39% 14%
38	8B	242	 44% 41% 12%
38	8C	242	 46% 39% 12%
38	8D	242	 34% 28% 35%

2 Entry composition [i](#)

There are 41 unique types of molecules in this entry. The entry contains 1358547 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.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	1	138	1120	701	192	214	13	0	0
1	3	433	3397	2131	581	655	30	0	0
1	5	436	3421	2147	584	660	30	0	0
1	7	437	3430	2152	585	663	30	0	0
1	9	436	3421	2147	584	660	30	0	0
1	A1	432	3388	2126	580	652	30	0	0
1	A3	435	3410	2138	583	659	30	0	0
1	A5	430	3370	2116	578	646	30	0	0
1	A7	426	3346	2103	574	639	30	0	0
1	A9	426	3346	2103	574	639	30	0	0
1	B1	426	3346	2103	574	639	30	0	0
1	B3	426	3346	2103	574	639	30	0	0
1	B5	426	3346	2103	574	639	30	0	0
1	B8	426	3346	2103	574	639	30	0	0
1	C0	426	3346	2103	574	639	30	0	0
1	C2	426	3346	2103	574	639	30	0	0
1	C4	426	3346	2103	574	639	30	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	C6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	C8	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	D0	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	D2	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	D4	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	D6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	D8	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	E0	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	E2	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	E4	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	E6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	E8	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	F0	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	F2	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	F6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	F8	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	G0	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	G2	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	G4	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	G6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	G8	426	Total 3346	C 2103	N 574	O 639	S 30	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	H2	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	H4	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	H6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	H8	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	I0	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	I2	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	I4	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	I8	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	J0	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	J2	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	J4	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	J6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	J8	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	K0	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	K4	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	K6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	K8	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	L0	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	L2	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	L4	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	L6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	M0	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	M2	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	M4	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	M6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	M8	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	N0	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	N2	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	N6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	N8	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	O0	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	O2	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	O4	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	O6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	O8	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	P4	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	P6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	P8	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Q0	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Q2	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Q4	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Q6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	Q8	420	3293	2070	563	631	29	0	0
1	R0	434	3401	2133	582	656	30	0	0
1	R2	426	3346	2103	574	639	30	0	0
1	R4	430	3370	2116	578	646	30	0	0
1	R6	426	3346	2103	574	639	30	0	0
1	R8	431	3379	2121	579	649	30	0	0
1	S0	426	3346	2103	574	639	30	0	0
1	S2	431	3379	2121	579	649	30	0	0
1	S4	427	3354	2107	575	642	30	0	0
1	S6	426	3346	2103	574	639	30	0	0
1	S8	426	3346	2103	574	639	30	0	0
1	T0	426	3346	2103	574	639	30	0	0
1	T2	426	3346	2103	574	639	30	0	0
1	T4	426	3346	2103	574	639	30	0	0
1	T6	426	3346	2103	574	639	30	0	0
1	T8	426	3346	2103	574	639	30	0	0
1	U2	426	3346	2103	574	639	30	0	0
1	U4	426	3346	2103	574	639	30	0	0
1	U6	426	3346	2103	574	639	30	0	0
1	U8	430	3370	2116	578	646	30	0	0
1	V0	426	3346	2103	574	639	30	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	V2	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	V4	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	V6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	V8	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	W0	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	W2	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	W4	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	W6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	W8	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	X0	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	X2	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	X4	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	X6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	X8	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Y0	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Y2	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Y4	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Y6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Y8	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Z0	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Z2	426	Total 3346	C 2103	N 574	O 639	S 30	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Z4	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Z6	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	Z8	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	0A	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	0C	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	0E	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	0G	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	0I	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	0K	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	0M	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	0O	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	0Q	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	0S	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	0U	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	0W	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	0Y	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	1A	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	1C	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	1E	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	1G	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	1K	426	Total 3346	C 2103	N 574	O 639	S 30	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	1M	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	1O	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	1Q	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	1S	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	1U	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	1W	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	2A	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	2C	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	2E	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	2G	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	2I	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	2K	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	2M	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	2Q	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	2S	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	2U	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	2W	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	2Y	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	3A	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	3C	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	3G	426	Total 3346	C 2103	N 574	O 639	S 30	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	3I	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	3K	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	3M	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	3O	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	3Q	426	Total 3346	C 2103	N 574	O 639	S 30	0	0
1	3S	426	Total 3346	C 2103	N 574	O 639	S 30	0	0

- Molecule 2 is a protein called Tubulin alpha.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	2	436	Total 3376	C 2136	N 575	O 644	S 21	0	0
2	4	436	Total 3376	C 2136	N 575	O 644	S 21	0	0
2	6	436	Total 3376	C 2136	N 575	O 644	S 21	0	0
2	8	436	Total 3376	C 2136	N 575	O 644	S 21	0	0
2	A0	436	Total 3376	C 2136	N 575	O 644	S 21	0	0
2	A2	436	Total 3376	C 2136	N 575	O 644	S 21	0	0
2	A4	436	Total 3376	C 2136	N 575	O 644	S 21	0	0
2	A8	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	B0	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	B2	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	B4	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	B7	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	B9	427	Total 3318	C 2103	N 565	O 629	S 21	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	C1	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	C5	436	Total 3376	C 2136	N 575	O 644	S 21	0	0
2	C7	436	Total 3376	C 2136	N 575	O 644	S 21	0	0
2	C9	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	D1	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	D3	428	Total 3324	C 2106	N 566	O 631	S 21	0	0
2	D5	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	D7	428	Total 3324	C 2106	N 566	O 631	S 21	0	0
2	E1	428	Total 3324	C 2106	N 566	O 631	S 21	0	0
2	E3	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	E5	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	E7	428	Total 3324	C 2106	N 566	O 631	S 21	0	0
2	E9	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	F1	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	F3	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	F5	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	F7	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	F9	436	Total 3376	C 2136	N 575	O 644	S 21	0	0
2	G1	436	Total 3376	C 2136	N 575	O 644	S 21	0	0
2	G3	436	Total 3376	C 2136	N 575	O 644	S 21	0	0
2	G5	427	Total 3318	C 2103	N 565	O 629	S 21	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	G7	427	3318	2103	565	629	21	0	0
2	G9	427	3318	2103	565	629	21	0	0
2	H1	427	3318	2103	565	629	21	0	0
2	H3	427	3318	2103	565	629	21	0	0
2	H5	427	3318	2103	565	629	21	0	0
2	H7	427	3318	2103	565	629	21	0	0
2	H9	427	3318	2103	565	629	21	0	0
2	I1	427	3318	2103	565	629	21	0	0
2	I3	427	3318	2103	565	629	21	0	0
2	I5	427	3318	2103	565	629	21	0	0
2	I7	429	3332	2110	567	634	21	0	0
2	I9	428	3324	2106	566	631	21	0	0
2	J1	427	3318	2103	565	629	21	0	0
2	J3	428	3326	2107	566	632	21	0	0
2	J5	437	3385	2141	576	647	21	0	0
2	J7	427	3318	2103	565	629	21	0	0
2	J9	437	3385	2141	576	647	21	0	0
2	K1	427	3318	2103	565	629	21	0	0
2	K3	427	3318	2103	565	629	21	0	0
2	K5	427	3318	2103	565	629	21	0	0
2	K7	427	3318	2103	565	629	21	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	K9	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	L1	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	L3	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	L5	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	L7	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	L9	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	M1	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	M3	436	Total 3376	C 2136	N 575	O 644	S 21	0	0
2	M5	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	M7	436	Total 3376	C 2136	N 575	O 644	S 21	0	0
2	M9	437	Total 3385	C 2141	N 576	O 647	S 21	0	0
2	N1	428	Total 3324	C 2106	N 566	O 631	S 21	0	0
2	N3	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	N5	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	N7	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	N9	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	O1	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	O3	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	O5	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	O7	431	Total 3340	C 2114	N 569	O 636	S 21	0	0
2	O9	427	Total 3318	C 2103	N 565	O 629	S 21	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	P3	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	P5	436	Total 3376	C 2136	N 575	O 644	S 21	0	0
2	P7	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	P9	436	Total 3376	C 2136	N 575	O 644	S 21	0	0
2	Q1	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Q3	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Q5	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Q9	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	R1	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	R3	428	Total 3327	C 2108	N 566	O 632	S 21	0	0
2	R5	436	Total 3376	C 2136	N 575	O 644	S 21	0	0
2	R7	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	R9	436	Total 3376	C 2136	N 575	O 644	S 21	0	0
2	S1	429	Total 3333	C 2111	N 567	O 634	S 21	0	0
2	S5	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	S7	436	Total 3376	C 2136	N 575	O 644	S 21	0	0
2	S9	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	T1	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	T3	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	T5	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	T7	427	Total 3318	C 2103	N 565	O 629	S 21	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	U1	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	U3	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	U5	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	U7	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	U9	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	V1	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	V3	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	V7	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	V9	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	W1	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	W3	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	W5	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	W7	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	W9	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	X3	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	X5	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	X7	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	X9	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Y1	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Y3	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	Y5	427	Total 3318	C 2103	N 565	O 629	S 21	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	Y9	427	3318	2103	565	629	21	0	0
2	Z1	427	3318	2103	565	629	21	0	0
2	Z3	427	3318	2103	565	629	21	0	0
2	Z5	427	3318	2103	565	629	21	0	0
2	Z7	427	3318	2103	565	629	21	0	0
2	Z9	427	3318	2103	565	629	21	0	0
2	0B	427	3318	2103	565	629	21	0	0
2	0F	427	3318	2103	565	629	21	0	0
2	0H	427	3318	2103	565	629	21	0	0
2	0J	427	3318	2103	565	629	21	0	0
2	0L	427	3318	2103	565	629	21	0	0
2	0N	427	3318	2103	565	629	21	0	0
2	0P	427	3318	2103	565	629	21	0	0
2	0R	427	3318	2103	565	629	21	0	0
2	0V	427	3318	2103	565	629	21	0	0
2	0X	427	3318	2103	565	629	21	0	0
2	0Z	427	3318	2103	565	629	21	0	0
2	1B	427	3318	2103	565	629	21	0	0
2	1D	427	3318	2103	565	629	21	0	0
2	1F	427	3318	2103	565	629	21	0	0
2	1H	427	3318	2103	565	629	21	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	1L	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	1N	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	1P	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	1R	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	1T	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	1V	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	1X	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	1Z	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	2B	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	2D	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	2F	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	2H	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	2J	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	2L	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	2N	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	2P	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	2R	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	2T	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	2V	427	Total 3318	C 2103	N 565	O 629	S 21	0	0
2	2X	437	Total 3385	C 2141	N 576	O 647	S 21	0	0
2	2Z	427	Total 3318	C 2103	N 565	O 629	S 21	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	3B	437	Total	C	N	O	S	0	0
			3383	2140	576	646	21		
2	3D	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	3F	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	3H	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	3J	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	3L	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	3N	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	3P	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		
2	3R	437	Total	C	N	O	S	0	0
			3385	2141	576	647	21		
2	3T	427	Total	C	N	O	S	0	0
			3318	2103	565	629	21		

- Molecule 3 is a protein called PACRG.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	3V	297	Total	C	N	O	S	0	0
			2329	1491	401	428	9		
3	3X	297	Total	C	N	O	S	0	0
			2329	1491	401	428	9		
3	3Z	297	Total	C	N	O	S	0	0
			2329	1491	401	428	9		
3	4B	297	Total	C	N	O	S	0	0
			2329	1491	401	428	9		
3	4D	297	Total	C	N	O	S	0	0
			2329	1491	401	428	9		
3	4F	297	Total	C	N	O	S	0	0
			2329	1491	401	428	9		
3	4H	297	Total	C	N	O	S	0	0
			2329	1491	401	428	9		
3	4J	204	Total	C	N	O	S	0	0
			1643	1060	281	296	6		

- Molecule 4 is a protein called FAP20.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	3W	184	Total	C	N	O	S	0	0
			1515	971	264	273	7		
4	3Y	184	Total	C	N	O	S	0	0
			1515	971	264	273	7		
4	4A	184	Total	C	N	O	S	0	0
			1515	971	264	273	7		
4	4C	184	Total	C	N	O	S	0	0
			1515	971	264	273	7		
4	4E	184	Total	C	N	O	S	0	0
			1515	971	264	273	7		
4	4G	184	Total	C	N	O	S	0	0
			1515	971	264	273	7		
4	4I	184	Total	C	N	O	S	0	0
			1515	971	264	273	7		

- Molecule 5 is a protein called FAP53.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	4L	238	Total	C	N	O	S	0	0
			1921	1164	366	381	10		
5	4M	316	Total	C	N	O	S	0	0
			2622	1589	514	503	16		

- Molecule 6 is a protein called FAP127.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	4N	52	Total	C	N	O	S	0	0
			422	260	76	85	1		
6	4O	478	Total	C	N	O	S	0	0
			3995	2407	778	791	19		
6	4P	194	Total	C	N	O	S	0	0
			1588	956	313	315	4		

- Molecule 7 is a protein called RIB43a.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	4Q	63	Total	C	N	O	S	0	0
			525	324	101	98	2		
7	4R	366	Total	C	N	O	S	0	0
			2982	1819	561	589	13		
7	4S	45	Total	C	N	O		0	0
			371	228	71	72			

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	4T	194	Total	C	N	O	S	0	0
			1574	961	295	307	11		
7	4U	283	Total	C	N	O	S	0	0
			2285	1392	423	461	9		

- Molecule 8 is a protein called FAP112.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	4V	83	Total	C	N	O	S	0	0
			653	396	129	124	4		
8	4W	353	Total	C	N	O	S	0	0
			2750	1649	552	538	11		
8	4X	59	Total	C	N	O	S	0	0
			462	284	85	90	3		

- Molecule 9 is a protein called FAP210.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	4Y	126	Total	C	N	O	S	0	0
			1004	625	187	189	3		
9	4Z	389	Total	C	N	O	S	0	0
			3158	1908	627	615	8		

- Molecule 10 is a protein called FAP45.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	5A	228	Total	C	N	O	S	0	0
			1902	1154	367	372	9		
10	5B	249	Total	C	N	O	S	0	0
			2074	1257	391	410	16		
10	5C	370	Total	C	N	O	S	0	0
			3103	1881	597	604	21		
10	5D	106	Total	C	N	O	S	0	0
			901	542	176	174	9		

- Molecule 11 is a protein called RIB30.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	5E	258	Total	C	N	O	S	0	0
			1981	1245	352	380	4		

- Molecule 12 is a protein called FAP363.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	5F	381	Total	C	N	O	S	0	0
			3020	1921	520	569	10		
12	5G	141	Total	C	N	O	S	0	0
			1123	711	203	206	3		
12	7B	97	Total	C	N	O	S	0	0
			753	476	125	148	4		

- Molecule 13 is a protein called FAP126.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	5H	135	Total	C	N	O	S	0	0
			1069	674	190	202	3		
13	5I	135	Total	C	N	O	S	0	0
			1069	674	190	202	3		
13	5J	135	Total	C	N	O	S	0	0
			1069	674	190	202	3		
13	5K	135	Total	C	N	O	S	0	0
			1069	674	190	202	3		

- Molecule 14 is a protein called FAP52.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	5L	626	Total	C	N	O	S	0	0
			4757	2992	827	912	26		
14	5M	626	Total	C	N	O	S	0	0
			4757	2992	827	912	26		
14	5N	626	Total	C	N	O	S	0	0
			4757	2992	827	912	26		

- Molecule 15 is a protein called FAP67.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	5O	376	Total	C	N	O	S	0	0
			2927	1862	503	547	15		
15	5P	376	Total	C	N	O	S	0	0
			2927	1862	503	547	15		

- Molecule 16 is a protein called FAP85.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	5Q	191	Total	C	N	O	S	0	0
			1523	961	267	293	2		

- Molecule 17 is a protein called FAP106.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	5R	22	Total	C	N	O	S	0	0
			162	100	33	28	1		
17	5S	199	Total	C	N	O	S	0	0
			1572	989	291	288	4		
17	5T	198	Total	C	N	O	S	0	0
			1563	984	290	285	4		
17	5U	199	Total	C	N	O	S	0	0
			1572	989	291	288	4		
17	5V	109	Total	C	N	O	S	0	0
			879	551	164	162	2		

- Molecule 18 is a protein called FAP115.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	5X	221	Total	C	N	O	S	0	0
			1793	1153	302	330	8		
18	5Y	221	Total	C	N	O	S	0	0
			1793	1153	302	330	8		
18	5Z	221	Total	C	N	O	S	0	0
			1793	1153	302	330	8		
18	6A	221	Total	C	N	O	S	0	0
			1793	1153	302	330	8		
18	6B	221	Total	C	N	O	S	0	0
			1793	1153	302	330	8		
18	6C	221	Total	C	N	O	S	0	0
			1793	1153	302	330	8		
18	6D	221	Total	C	N	O	S	0	0
			1793	1153	302	330	8		

- Molecule 19 is a protein called FAP143.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	6E	255	Total	C	N	O	S	0	0
			1952	1208	345	390	9		

- Molecule 20 is a protein called FAP161.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	6F	394	Total	C	N	O	S	0	0
			2950	1852	518	566	14		

- Molecule 21 is a protein called FAP166.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	6G	183	Total	C	N	O	S	0	0
			1420	891	251	269	9		
21	6H	193	Total	C	N	O	S	0	0
			1493	937	265	282	9		

- Molecule 22 is a protein called FAP252.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	6I	329	Total	C	N	O	S	0	0
			2617	1660	442	501	14		
22	6J	329	Total	C	N	O	S	0	0
			2617	1660	442	501	14		
22	6K	329	Total	C	N	O	S	0	0
			2617	1660	442	501	14		
22	6L	329	Total	C	N	O	S	0	0
			2617	1660	442	501	14		
22	6M	329	Total	C	N	O	S	0	0
			2617	1660	442	501	14		
22	6N	329	Total	C	N	O	S	0	0
			2617	1660	442	501	14		
22	6O	329	Total	C	N	O	S	0	0
			2617	1660	442	501	14		
22	6P	297	Total	C	N	O	S	0	0
			2366	1499	399	454	14		

- Molecule 23 is a protein called FAP276.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	6Q	85	Total	C	N	O	S	0	0
			694	434	130	127	3		
23	6R	85	Total	C	N	O	S	0	0
			694	434	130	127	3		
23	6S	85	Total	C	N	O	S	0	0
			694	434	130	127	3		

- Molecule 24 is a protein called RIB72.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	6T	564	Total	C	N	O	S	0	0
			4590	2928	792	854	16		
24	6U	569	Total	C	N	O	S	0	0
			4623	2949	798	860	16		

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Mol	Chain	Residues	Atoms					AltConf	Trace
24	6V	561	Total	C	N	O	S	0	0
			4569	2915	789	849	16		
24	6W	566	Total	C	N	O	S	0	0
			4606	2938	795	857	16		
24	6X	569	Total	C	N	O	S	0	0
			4631	2954	799	862	16		
24	6Y	562	Total	C	N	O	S	0	0
			4579	2923	791	849	16		
24	6Z	563	Total	C	N	O	S	0	0
			4585	2925	791	853	16		
24	7A	189	Total	C	N	O	S	0	0
			1518	962	267	284	5		

- Molecule 25 is a protein called FAP141.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	7C	98	Total	C	N	O	S	0	0
			794	486	157	149	2		

- Molecule 26 is a protein called FAP222.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	7D	132	Total	C	N	O	S	0	0
			1016	637	183	189	7		
26	7E	132	Total	C	N	O	S	0	0
			1016	637	183	189	7		
26	7F	132	Total	C	N	O	S	0	0
			1016	637	183	189	7		

- Molecule 27 is a protein called FAP95.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	7G	224	Total	C	N	O	S	0	0
			1728	1083	305	336	4		

- Molecule 28 is a protein called FAP182.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	7H	138	Total	C	N	O	S	0	0
			1046	651	194	196	5		
28	7X	138	Total	C	N	O	S	0	0
			1046	651	194	196	5		

- Molecule 29 is a protein called FAP129.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
29	7I	228	Total 1716	C 1065	N 311	O 334	S 6	0	0
29	7J	362	Total 2741	C 1691	N 505	O 535	S 10	0	0

- Molecule 30 is a protein called FAP21.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
30	7K	423	Total 3276	C 2026	N 620	O 625	S 5	0	0
30	7L	176	Total 1333	C 819	N 254	O 257	S 3	0	0

- Molecule 31 is a protein called FAP273.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
31	7M	85	Total 662	C 411	N 123	O 125	S 3	0	0
31	7N	126	Total 977	C 607	N 179	O 186	S 5	0	0

- Molecule 32 is a protein called FAP107.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
32	7O	59	Total 443	C 270	N 81	O 92		0	0
32	7P	182	Total 1398	C 865	N 257	O 273	S 3	0	0

- Molecule 33 is a protein called RIB21.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
33	7Q	71	Total 567	C 352	N 98	O 117	0	0

- Molecule 34 is a protein called DC1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
34	7R	195	Total 1619	C 988	N 308	O 317	S 6	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
34	7S	160	1347	818	260	263	6	0	0

- Molecule 35 is a protein called DC2.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
35	7T	213	1738	1068	326	335	9	0	0
35	7U	181	1476	904	278	285	9	0	0

- Molecule 36 is a protein called DC3.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
36	7V	89	735	457	123	150	5	0	0
36	7W	89	735	457	123	150	5	0	0

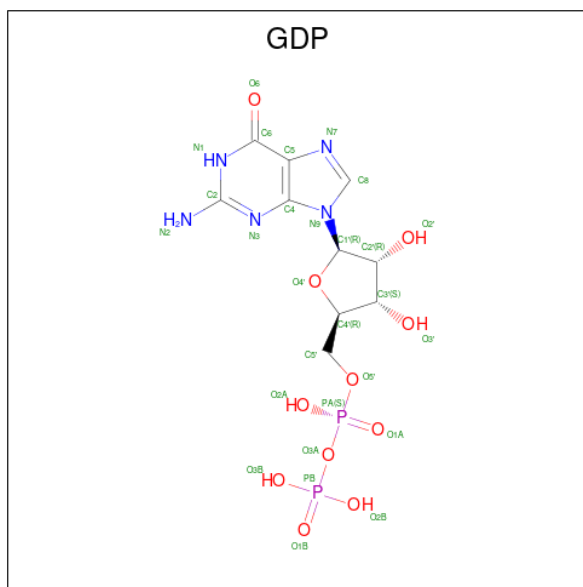
- Molecule 37 is a protein called FAP68.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
37	7Y	247	1971	1221	372	370	8	0	0

- Molecule 38 is a protein called FAP90.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
38	7Z	39	298	184	50	62	2	0	0
38	8A	207	1691	1058	305	322	6	0	0
38	8B	213	1728	1078	311	332	7	0	0
38	8C	213	1728	1078	311	332	7	0	0
38	8D	157	1311	820	236	250	5	0	0

- Molecule 39 is GUANOSINE-5'-DIPHOSPHATE (three-letter code: GDP) (formula: C₁₀H₁₅N₅O₁₁P₂).



Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
39	2	1	Total	C	N	O	P	0
			28	10	5	11	2	
39	3	1	Total	C	N	O	P	0
			28	10	5	11	2	
39	5	1	Total	C	N	O	P	0
			28	10	5	11	2	
39	7	1	Total	C	N	O	P	0
			28	10	5	11	2	
39	9	1	Total	C	N	O	P	0
			28	10	5	11	2	
39	A1	1	Total	C	N	O	P	0
			28	10	5	11	2	
39	A3	1	Total	C	N	O	P	0
			28	10	5	11	2	
39	A5	1	Total	C	N	O	P	0
			28	10	5	11	2	
39	A7	1	Total	C	N	O	P	0
			28	10	5	11	2	
39	A9	1	Total	C	N	O	P	0
			28	10	5	11	2	
39	B1	1	Total	C	N	O	P	0
			28	10	5	11	2	
39	B3	1	Total	C	N	O	P	0
			28	10	5	11	2	
39	B5	1	Total	C	N	O	P	0
			28	10	5	11	2	
39	B8	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
39	C0	1	28	10	5	11	2	0
39	C2	1	28	10	5	11	2	0
39	C4	1	28	10	5	11	2	0
39	C6	1	28	10	5	11	2	0
39	C8	1	28	10	5	11	2	0
39	D0	1	28	10	5	11	2	0
39	D2	1	28	10	5	11	2	0
39	D4	1	28	10	5	11	2	0
39	D6	1	28	10	5	11	2	0
39	D8	1	28	10	5	11	2	0
39	E0	1	28	10	5	11	2	0
39	E2	1	28	10	5	11	2	0
39	E4	1	28	10	5	11	2	0
39	E6	1	28	10	5	11	2	0
39	E8	1	28	10	5	11	2	0
39	F0	1	28	10	5	11	2	0
39	F2	1	28	10	5	11	2	0
39	F6	1	28	10	5	11	2	0
39	F8	1	28	10	5	11	2	0
39	G0	1	28	10	5	11	2	0
39	G2	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
39	G4	1	28	10	5	11	2	0
39	G6	1	28	10	5	11	2	0
39	G8	1	28	10	5	11	2	0
39	H2	1	28	10	5	11	2	0
39	H4	1	28	10	5	11	2	0
39	H6	1	28	10	5	11	2	0
39	H8	1	28	10	5	11	2	0
39	I0	1	28	10	5	11	2	0
39	I2	1	28	10	5	11	2	0
39	I4	1	28	10	5	11	2	0
39	I8	1	28	10	5	11	2	0
39	J0	1	28	10	5	11	2	0
39	J2	1	28	10	5	11	2	0
39	J4	1	28	10	5	11	2	0
39	J6	1	28	10	5	11	2	0
39	J8	1	28	10	5	11	2	0
39	K0	1	28	10	5	11	2	0
39	K4	1	28	10	5	11	2	0
39	K6	1	28	10	5	11	2	0
39	K8	1	28	10	5	11	2	0
39	L0	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
39	L2	1	Total 28	C 10	N 5	O 11	P 2	0
39	L4	1	Total 28	C 10	N 5	O 11	P 2	0
39	L6	1	Total 28	C 10	N 5	O 11	P 2	0
39	M0	1	Total 28	C 10	N 5	O 11	P 2	0
39	M2	1	Total 28	C 10	N 5	O 11	P 2	0
39	M4	1	Total 28	C 10	N 5	O 11	P 2	0
39	M6	1	Total 28	C 10	N 5	O 11	P 2	0
39	M8	1	Total 28	C 10	N 5	O 11	P 2	0
39	N0	1	Total 28	C 10	N 5	O 11	P 2	0
39	N2	1	Total 28	C 10	N 5	O 11	P 2	0
39	N6	1	Total 28	C 10	N 5	O 11	P 2	0
39	N8	1	Total 28	C 10	N 5	O 11	P 2	0
39	O0	1	Total 28	C 10	N 5	O 11	P 2	0
39	O2	1	Total 28	C 10	N 5	O 11	P 2	0
39	O4	1	Total 28	C 10	N 5	O 11	P 2	0
39	O6	1	Total 28	C 10	N 5	O 11	P 2	0
39	O8	1	Total 28	C 10	N 5	O 11	P 2	0
39	P4	1	Total 28	C 10	N 5	O 11	P 2	0
39	P6	1	Total 28	C 10	N 5	O 11	P 2	0
39	P8	1	Total 28	C 10	N 5	O 11	P 2	0
39	Q0	1	Total 28	C 10	N 5	O 11	P 2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
39	Q2	1	28	10	5	11	2	0
39	Q4	1	28	10	5	11	2	0
39	Q6	1	28	10	5	11	2	0
39	Q8	1	28	10	5	11	2	0
39	R0	1	28	10	5	11	2	0
39	R2	1	28	10	5	11	2	0
39	R4	1	28	10	5	11	2	0
39	R6	1	28	10	5	11	2	0
39	R8	1	28	10	5	11	2	0
39	S0	1	28	10	5	11	2	0
39	S2	1	28	10	5	11	2	0
39	S4	1	28	10	5	11	2	0
39	S6	1	28	10	5	11	2	0
39	S8	1	28	10	5	11	2	0
39	T0	1	28	10	5	11	2	0
39	T2	1	28	10	5	11	2	0
39	T4	1	28	10	5	11	2	0
39	T6	1	28	10	5	11	2	0
39	T8	1	28	10	5	11	2	0
39	U2	1	28	10	5	11	2	0
39	U4	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
39	U6	1	28	10	5	11	2	0
39	U8	1	28	10	5	11	2	0
39	V0	1	28	10	5	11	2	0
39	V2	1	28	10	5	11	2	0
39	V4	1	28	10	5	11	2	0
39	V6	1	28	10	5	11	2	0
39	V8	1	28	10	5	11	2	0
39	W0	1	28	10	5	11	2	0
39	W2	1	28	10	5	11	2	0
39	W4	1	28	10	5	11	2	0
39	W6	1	28	10	5	11	2	0
39	W8	1	28	10	5	11	2	0
39	X0	1	28	10	5	11	2	0
39	X2	1	28	10	5	11	2	0
39	X4	1	28	10	5	11	2	0
39	X6	1	28	10	5	11	2	0
39	X8	1	28	10	5	11	2	0
39	Y0	1	28	10	5	11	2	0
39	Y2	1	28	10	5	11	2	0
39	Y4	1	28	10	5	11	2	0
39	Y6	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
39	Y8	1	Total 28	C 10	N 5	O 11	P 2	0
39	Z0	1	Total 28	C 10	N 5	O 11	P 2	0
39	Z2	1	Total 28	C 10	N 5	O 11	P 2	0
39	Z4	1	Total 28	C 10	N 5	O 11	P 2	0
39	Z6	1	Total 28	C 10	N 5	O 11	P 2	0
39	Z8	1	Total 28	C 10	N 5	O 11	P 2	0
39	0A	1	Total 28	C 10	N 5	O 11	P 2	0
39	0C	1	Total 28	C 10	N 5	O 11	P 2	0
39	0E	1	Total 28	C 10	N 5	O 11	P 2	0
39	0G	1	Total 28	C 10	N 5	O 11	P 2	0
39	0I	1	Total 28	C 10	N 5	O 11	P 2	0
39	0K	1	Total 28	C 10	N 5	O 11	P 2	0
39	0M	1	Total 28	C 10	N 5	O 11	P 2	0
39	0O	1	Total 28	C 10	N 5	O 11	P 2	0
39	0Q	1	Total 28	C 10	N 5	O 11	P 2	0
39	0S	1	Total 28	C 10	N 5	O 11	P 2	0
39	0U	1	Total 28	C 10	N 5	O 11	P 2	0
39	0W	1	Total 28	C 10	N 5	O 11	P 2	0
39	0Y	1	Total 28	C 10	N 5	O 11	P 2	0
39	1A	1	Total 28	C 10	N 5	O 11	P 2	0
39	1C	1	Total 28	C 10	N 5	O 11	P 2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
39	1E	1	Total 28	C 10	N 5	O 11	P 2	0
39	1G	1	Total 28	C 10	N 5	O 11	P 2	0
39	1K	1	Total 28	C 10	N 5	O 11	P 2	0
39	1M	1	Total 28	C 10	N 5	O 11	P 2	0
39	1O	1	Total 28	C 10	N 5	O 11	P 2	0
39	1Q	1	Total 28	C 10	N 5	O 11	P 2	0
39	1S	1	Total 28	C 10	N 5	O 11	P 2	0
39	1U	1	Total 28	C 10	N 5	O 11	P 2	0
39	1W	1	Total 28	C 10	N 5	O 11	P 2	0
39	2A	1	Total 28	C 10	N 5	O 11	P 2	0
39	2C	1	Total 28	C 10	N 5	O 11	P 2	0
39	2E	1	Total 28	C 10	N 5	O 11	P 2	0
39	2G	1	Total 28	C 10	N 5	O 11	P 2	0
39	2I	1	Total 28	C 10	N 5	O 11	P 2	0
39	2K	1	Total 28	C 10	N 5	O 11	P 2	0
39	2M	1	Total 28	C 10	N 5	O 11	P 2	0
39	2Q	1	Total 28	C 10	N 5	O 11	P 2	0
39	2S	1	Total 28	C 10	N 5	O 11	P 2	0
39	2U	1	Total 28	C 10	N 5	O 11	P 2	0
39	2W	1	Total 28	C 10	N 5	O 11	P 2	0
39	2Y	1	Total 28	C 10	N 5	O 11	P 2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
39	3A	1	28	10	5	11	2	0
39	3C	1	28	10	5	11	2	0
39	3G	1	28	10	5	11	2	0
39	3I	1	28	10	5	11	2	0
39	3K	1	28	10	5	11	2	0
39	3M	1	28	10	5	11	2	0
39	3O	1	28	10	5	11	2	0
39	3Q	1	28	10	5	11	2	0
39	3S	1	28	10	5	11	2	0

- Molecule 40 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
40	2	1	1	1	0
40	4	1	1	1	0
40	6	1	1	1	0
40	8	1	1	1	0
40	A0	1	1	1	0
40	A2	1	1	1	0
40	A4	1	1	1	0
40	A8	1	1	1	0
40	B0	1	1	1	0
40	B2	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
40	B4	1	1	1	0
40	B7	1	1	1	0
40	B9	1	1	1	0
40	C1	1	1	1	0
40	C5	1	1	1	0
40	C7	1	1	1	0
40	C9	1	1	1	0
40	D1	1	1	1	0
40	D3	1	1	1	0
40	D5	1	1	1	0
40	D7	1	1	1	0
40	E1	1	1	1	0
40	E3	1	1	1	0
40	E5	1	1	1	0
40	E7	1	1	1	0
40	E9	1	1	1	0
40	F1	1	1	1	0
40	F3	1	1	1	0
40	F5	1	1	1	0
40	F7	1	1	1	0
40	F9	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
40	G1	1	1	1	0
40	G3	1	1	1	0
40	G5	1	1	1	0
40	G7	1	1	1	0
40	G9	1	1	1	0
40	H2	1	1	1	0
40	H3	1	1	1	0
40	H5	1	1	1	0
40	H8	1	1	1	0
40	H9	1	1	1	0
40	I1	1	1	1	0
40	I3	1	1	1	0
40	I5	1	1	1	0
40	I7	1	1	1	0
40	I9	1	1	1	0
40	J1	1	1	1	0
40	J4	1	1	1	0
40	J5	1	1	1	0
40	J7	1	1	1	0
40	J9	1	1	1	0
40	K1	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
40	K3	1	1	1	0
40	K5	1	1	1	0
40	K7	1	1	1	0
40	K9	1	1	1	0
40	L1	1	1	1	0
40	L3	1	1	1	0
40	L5	1	1	1	0
40	L7	1	1	1	0
40	L9	1	1	1	0
40	M1	1	1	1	0
40	M3	1	1	1	0
40	M5	1	1	1	0
40	M7	1	1	1	0
40	M9	1	1	1	0
40	N1	1	1	1	0
40	N3	1	1	1	0
40	N6	1	1	1	0
40	N7	1	1	1	0
40	O0	1	1	1	0
40	O1	1	1	1	0
40	O3	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
40	O5	1	1	1	0
40	O8	1	1	1	0
40	O9	1	1	1	0
40	P4	1	1	1	0
40	P6	1	1	1	0
40	P7	1	1	1	0
40	P9	1	1	1	0
40	Q1	1	1	1	0
40	Q3	1	1	1	0
40	Q5	1	1	1	0
40	Q9	1	1	1	0
40	R1	1	1	1	0
40	R3	1	1	1	0
40	R6	1	1	1	0
40	R7	1	1	1	0
40	R9	1	1	1	0
40	S1	1	1	1	0
40	S5	1	1	1	0
40	S7	1	1	1	0
40	S9	1	1	1	0
40	T1	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
40	T3	1	1	1	0
40	T5	1	1	1	0
40	T7	1	1	1	0
40	U1	1	1	1	0
40	U3	1	1	1	0
40	U5	1	1	1	0
40	U7	1	1	1	0
40	U9	1	1	1	0
40	V2	1	1	1	0
40	V3	1	1	1	0
40	V7	1	1	1	0
40	V9	1	1	1	0
40	W2	1	1	1	0
40	W3	1	1	1	0
40	W5	1	1	1	0
40	W8	1	1	1	0
40	W9	1	1	1	0
40	X3	1	1	1	0
40	X5	1	1	1	0
40	X7	1	1	1	0
40	X9	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
40	Y1	1	1	1	0
40	Y3	1	1	1	0
40	Y5	1	1	1	0
40	Y9	1	1	1	0
40	Z2	1	1	1	0
40	Z3	1	1	1	0
40	Z5	1	1	1	0
40	Z7	1	1	1	0
40	0A	1	1	1	0
40	0B	1	1	1	0
40	0F	1	1	1	0
40	0H	1	1	1	0
40	0J	1	1	1	0
40	0L	1	1	1	0
40	0N	1	1	1	0
40	0P	1	1	1	0
40	0R	1	1	1	0
40	0W	1	1	1	0
40	0X	1	1	1	0
40	1A	1	1	1	0
40	1B	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
40	1D	1	1	1	0
40	1F	1	1	1	0
40	1H	1	1	1	0
40	1L	1	1	1	0
40	1N	1	1	1	0
40	1P	1	1	1	0
40	1R	1	1	1	0
40	1T	1	1	1	0
40	1V	1	1	1	0
40	1X	1	1	1	0
40	1Z	1	1	1	0
40	2B	1	1	1	0
40	2D	1	1	1	0
40	2F	1	1	1	0
40	2H	1	1	1	0
40	2J	1	1	1	0
40	2L	1	1	1	0
40	2N	1	1	1	0
40	2P	1	1	1	0
40	2R	1	1	1	0
40	2T	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
40	2V	1	Total 1	Mg 1	0
40	2X	1	Total 1	Mg 1	0
40	2Z	1	Total 1	Mg 1	0
40	3B	1	Total 1	Mg 1	0
40	3D	1	Total 1	Mg 1	0
40	3F	1	Total 1	Mg 1	0
40	3H	1	Total 1	Mg 1	0
40	3K	1	Total 1	Mg 1	0
40	3L	1	Total 1	Mg 1	0
40	3N	1	Total 1	Mg 1	0
40	3P	1	Total 1	Mg 1	0
40	3R	1	Total 1	Mg 1	0
40	3T	1	Total 1	Mg 1	0

- Molecule 41 is GUANOSINE-5'-TRIPHOSPHATE (three-letter code: GTP) (formula: $C_{10}H_{16}N_5O_{14}P_3$).



Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
41	3	1	Total 32	10	5	14	3	0
41	4	1	Total 32	10	5	14	3	0
41	7	1	Total 32	10	5	14	3	0
41	8	1	Total 32	10	5	14	3	0
41	A1	1	Total 32	10	5	14	3	0
41	A2	1	Total 32	10	5	14	3	0
41	A4	1	Total 32	10	5	14	3	0
41	A9	1	Total 32	10	5	14	3	0
41	B0	1	Total 32	10	5	14	3	0
41	B2	1	Total 32	10	5	14	3	0
41	B5	1	Total 32	10	5	14	3	0
41	B7	1	Total 32	10	5	14	3	0
41	C0	1	Total 32	10	5	14	3	0
41	C1	1	Total 32	10	5	14	3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
41	C5	1	Total 32	C 10	N 5	O 14	P 3	0
41	C8	1	Total 32	C 10	N 5	O 14	P 3	0
41	C9	1	Total 32	C 10	N 5	O 14	P 3	0
41	D1	1	Total 32	C 10	N 5	O 14	P 3	0
41	D3	1	Total 32	C 10	N 5	O 14	P 3	0
41	D5	1	Total 32	C 10	N 5	O 14	P 3	0
41	D7	1	Total 32	C 10	N 5	O 14	P 3	0
41	E1	1	Total 32	C 10	N 5	O 14	P 3	0
41	E4	1	Total 32	C 10	N 5	O 14	P 3	0
41	E6	1	Total 32	C 10	N 5	O 14	P 3	0
41	E8	1	Total 32	C 10	N 5	O 14	P 3	0
41	F0	1	Total 32	C 10	N 5	O 14	P 3	0
41	F1	1	Total 32	C 10	N 5	O 14	P 3	0
41	F3	1	Total 32	C 10	N 5	O 14	P 3	0
41	F5	1	Total 32	C 10	N 5	O 14	P 3	0
41	F8	1	Total 32	C 10	N 5	O 14	P 3	0
41	G0	1	Total 32	C 10	N 5	O 14	P 3	0
41	G1	1	Total 32	C 10	N 5	O 14	P 3	0
41	G4	1	Total 32	C 10	N 5	O 14	P 3	0
41	G5	1	Total 32	C 10	N 5	O 14	P 3	0
41	G7	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
41	G9	1	Total 32	C 10	N 5	O 14	P 3	0
41	H2	1	Total 32	C 10	N 5	O 14	P 3	0
41	H3	1	Total 32	C 10	N 5	O 14	P 3	0
41	H6	1	Total 32	C 10	N 5	O 14	P 3	0
41	H8	1	Total 32	C 10	N 5	O 14	P 3	0
41	I0	1	Total 32	C 10	N 5	O 14	P 3	0
41	I1	1	Total 32	C 10	N 5	O 14	P 3	0
41	I4	1	Total 32	C 10	N 5	O 14	P 3	0
41	I5	1	Total 32	C 10	N 5	O 14	P 3	0
41	I8	1	Total 32	C 10	N 5	O 14	P 3	0
41	J0	1	Total 32	C 10	N 5	O 14	P 3	0
41	J2	1	Total 32	C 10	N 5	O 14	P 3	0
41	J4	1	Total 32	C 10	N 5	O 14	P 3	0
41	J6	1	Total 32	C 10	N 5	O 14	P 3	0
41	J8	1	Total 32	C 10	N 5	O 14	P 3	0
41	K0	1	Total 32	C 10	N 5	O 14	P 3	0
41	K1	1	Total 32	C 10	N 5	O 14	P 3	0
41	K4	1	Total 32	C 10	N 5	O 14	P 3	0
41	K6	1	Total 32	C 10	N 5	O 14	P 3	0
41	K7	1	Total 32	C 10	N 5	O 14	P 3	0
41	K9	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
41	L2	1	Total 32	C 10	N 5	O 14	P 3	0
41	L4	1	Total 32	C 10	N 5	O 14	P 3	0
41	L6	1	Total 32	C 10	N 5	O 14	P 3	0
41	L7	1	Total 32	C 10	N 5	O 14	P 3	0
41	M0	1	Total 32	C 10	N 5	O 14	P 3	0
41	M2	1	Total 32	C 10	N 5	O 14	P 3	0
41	M4	1	Total 32	C 10	N 5	O 14	P 3	0
41	M6	1	Total 32	C 10	N 5	O 14	P 3	0
41	M7	1	Total 32	C 10	N 5	O 14	P 3	0
41	N0	1	Total 32	C 10	N 5	O 14	P 3	0
41	N1	1	Total 32	C 10	N 5	O 14	P 3	0
41	N3	1	Total 32	C 10	N 5	O 14	P 3	0
41	N6	1	Total 32	C 10	N 5	O 14	P 3	0
41	N8	1	Total 32	C 10	N 5	O 14	P 3	0
41	O0	1	Total 32	C 10	N 5	O 14	P 3	0
41	O2	1	Total 32	C 10	N 5	O 14	P 3	0
41	O4	1	Total 32	C 10	N 5	O 14	P 3	0
41	O6	1	Total 32	C 10	N 5	O 14	P 3	0
41	O8	1	Total 32	C 10	N 5	O 14	P 3	0
41	O9	1	Total 32	C 10	N 5	O 14	P 3	0
41	P4	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
41	P6	1	Total 32	C 10	N 5	O 14	P 3	0
41	P8	1	Total 32	C 10	N 5	O 14	P 3	0
41	P9	1	Total 32	C 10	N 5	O 14	P 3	0
41	Q2	1	Total 32	C 10	N 5	O 14	P 3	0
41	Q4	1	Total 32	C 10	N 5	O 14	P 3	0
41	Q6	1	Total 32	C 10	N 5	O 14	P 3	0
41	R0	1	Total 32	C 10	N 5	O 14	P 3	0
41	R2	1	Total 32	C 10	N 5	O 14	P 3	0
41	R4	1	Total 32	C 10	N 5	O 14	P 3	0
41	R6	1	Total 32	C 10	N 5	O 14	P 3	0
41	R8	1	Total 32	C 10	N 5	O 14	P 3	0
41	S0	1	Total 32	C 10	N 5	O 14	P 3	0
41	S2	1	Total 32	C 10	N 5	O 14	P 3	0
41	S5	1	Total 32	C 10	N 5	O 14	P 3	0
41	S8	1	Total 32	C 10	N 5	O 14	P 3	0
41	S9	1	Total 32	C 10	N 5	O 14	P 3	0
41	T2	1	Total 32	C 10	N 5	O 14	P 3	0
41	T4	1	Total 32	C 10	N 5	O 14	P 3	0
41	T6	1	Total 32	C 10	N 5	O 14	P 3	0
41	T8	1	Total 32	C 10	N 5	O 14	P 3	0
41	U2	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
41	U4	1	32	10	5	14	3	0
41	U6	1	32	10	5	14	3	0
41	U7	1	32	10	5	14	3	0
41	U9	1	32	10	5	14	3	0
41	V2	1	32	10	5	14	3	0
41	V3	1	32	10	5	14	3	0
41	V8	1	32	10	5	14	3	0
41	W0	1	32	10	5	14	3	0
41	W2	1	32	10	5	14	3	0
41	W4	1	32	10	5	14	3	0
41	W5	1	32	10	5	14	3	0
41	W8	1	32	10	5	14	3	0
41	X0	1	32	10	5	14	3	0
41	X4	1	32	10	5	14	3	0
41	X6	1	32	10	5	14	3	0
41	X7	1	32	10	5	14	3	0
41	Y0	1	32	10	5	14	3	0
41	Y1	1	32	10	5	14	3	0
41	Y4	1	32	10	5	14	3	0
41	Y6	1	32	10	5	14	3	0
41	Z0	1	32	10	5	14	3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
41	Z2	1	Total 32	C 10	N 5	O 14	P 3	0
41	Z3	1	Total 32	C 10	N 5	O 14	P 3	0
41	Z6	1	Total 32	C 10	N 5	O 14	P 3	0
41	Z7	1	Total 32	C 10	N 5	O 14	P 3	0
41	0A	1	Total 32	C 10	N 5	O 14	P 3	0
41	0C	1	Total 32	C 10	N 5	O 14	P 3	0
41	0F	1	Total 32	C 10	N 5	O 14	P 3	0
41	0I	1	Total 32	C 10	N 5	O 14	P 3	0
41	0K	1	Total 32	C 10	N 5	O 14	P 3	0
41	0M	1	Total 32	C 10	N 5	O 14	P 3	0
41	0O	1	Total 32	C 10	N 5	O 14	P 3	0
41	0Q	1	Total 32	C 10	N 5	O 14	P 3	0
41	0S	1	Total 32	C 10	N 5	O 14	P 3	0
41	0V	1	Total 32	C 10	N 5	O 14	P 3	0
41	0Y	1	Total 32	C 10	N 5	O 14	P 3	0
41	1A	1	Total 32	C 10	N 5	O 14	P 3	0
41	1C	1	Total 32	C 10	N 5	O 14	P 3	0
41	1D	1	Total 32	C 10	N 5	O 14	P 3	0
41	1G	1	Total 32	C 10	N 5	O 14	P 3	0
41	1H	1	Total 32	C 10	N 5	O 14	P 3	0
41	1L	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
41	1N	1	Total 32	C 10	N 5	O 14	P 3	0
41	1Q	1	Total 32	C 10	N 5	O 14	P 3	0
41	1S	1	Total 32	C 10	N 5	O 14	P 3	0
41	1T	1	Total 32	C 10	N 5	O 14	P 3	0
41	1W	1	Total 32	C 10	N 5	O 14	P 3	0
41	1X	1	Total 32	C 10	N 5	O 14	P 3	0
41	2A	1	Total 32	C 10	N 5	O 14	P 3	0
41	2C	1	Total 32	C 10	N 5	O 14	P 3	0
41	2E	1	Total 32	C 10	N 5	O 14	P 3	0
41	2G	1	Total 32	C 10	N 5	O 14	P 3	0
41	2I	1	Total 32	C 10	N 5	O 14	P 3	0
41	2K	1	Total 32	C 10	N 5	O 14	P 3	0
41	2L	1	Total 32	C 10	N 5	O 14	P 3	0
41	2N	1	Total 32	C 10	N 5	O 14	P 3	0
41	2Q	1	Total 32	C 10	N 5	O 14	P 3	0
41	2S	1	Total 32	C 10	N 5	O 14	P 3	0
41	2U	1	Total 32	C 10	N 5	O 14	P 3	0
41	2W	1	Total 32	C 10	N 5	O 14	P 3	0
41	2Y	1	Total 32	C 10	N 5	O 14	P 3	0
41	3A	1	Total 32	C 10	N 5	O 14	P 3	0
41	3C	1	Total 32	C 10	N 5	O 14	P 3	0

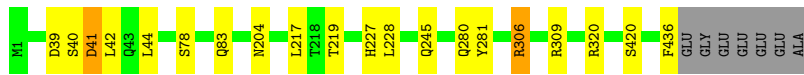
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Mol	Chain	Residues	Atoms					AltConf
41	3D	1	Total 32	C 10	N 5	O 14	P 3	0
41	3G	1	Total 32	C 10	N 5	O 14	P 3	0
41	3I	1	Total 32	C 10	N 5	O 14	P 3	0
41	3K	1	Total 32	C 10	N 5	O 14	P 3	0
41	3M	1	Total 32	C 10	N 5	O 14	P 3	0
41	3O	1	Total 32	C 10	N 5	O 14	P 3	0
41	3P	1	Total 32	C 10	N 5	O 14	P 3	0
41	3S	1	Total 32	C 10	N 5	O 14	P 3	0
41	3T	1	Total 32	C 10	N 5	O 14	P 3	0

● Molecule 1: Tubulin beta

Chain 9:  94%



● Molecule 1: Tubulin beta

Chain A1:  95%



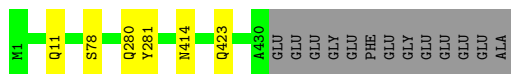
● Molecule 1: Tubulin beta

Chain A3:  92% 6%



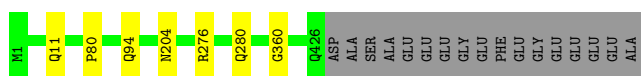
● Molecule 1: Tubulin beta

Chain A5:  96%



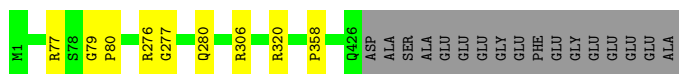
● Molecule 1: Tubulin beta

Chain A7:  95%



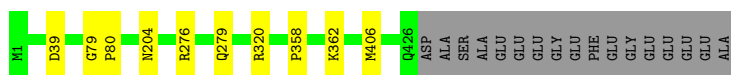
● Molecule 1: Tubulin beta

Chain A9:  94%



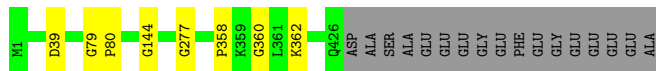
● Molecule 1: Tubulin beta

Chain B1:  94%



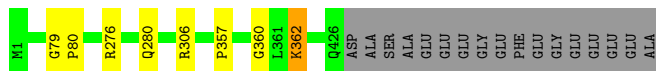
• Molecule 1: Tubulin beta

Chain B3:  94%



• Molecule 1: Tubulin beta

Chain B5:  94%



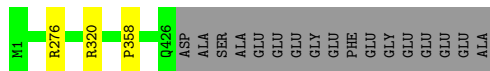
• Molecule 1: Tubulin beta

Chain B8:  93%



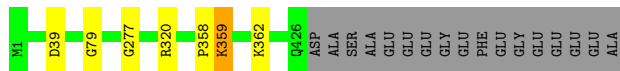
• Molecule 1: Tubulin beta

Chain C0:  95%



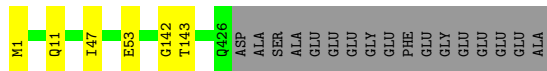
• Molecule 1: Tubulin beta

Chain C2:  95%



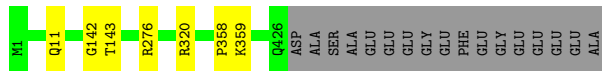
• Molecule 1: Tubulin beta

Chain C4:  95%



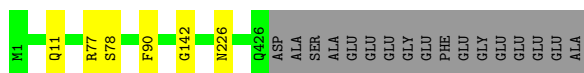
• Molecule 1: Tubulin beta

Chain C6:  95%



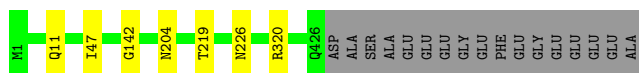
• Molecule 1: Tubulin beta

Chain C8:  95%



• Molecule 1: Tubulin beta

Chain D0:  95%



• Molecule 1: Tubulin beta

Chain D2:  95%



• Molecule 1: Tubulin beta

Chain D4:  93%



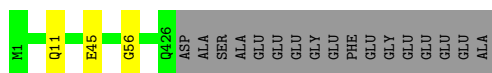
• Molecule 1: Tubulin beta

Chain D6:  94%



• Molecule 1: Tubulin beta

Chain D8:  95%



• Molecule 1: Tubulin beta

Chain E0:  94%

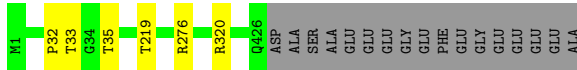


• Molecule 1: Tubulin beta

Chain E2:  94%



• Molecule 1: Tubulin beta



• Molecule 1: Tubulin beta



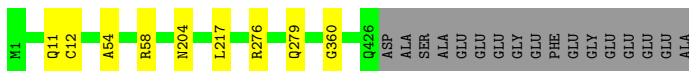
• Molecule 1: Tubulin beta



• Molecule 1: Tubulin beta



• Molecule 1: Tubulin beta

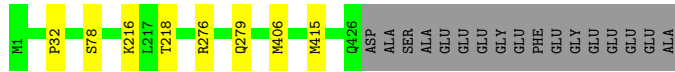


• Molecule 1: Tubulin beta



• Molecule 1: Tubulin beta

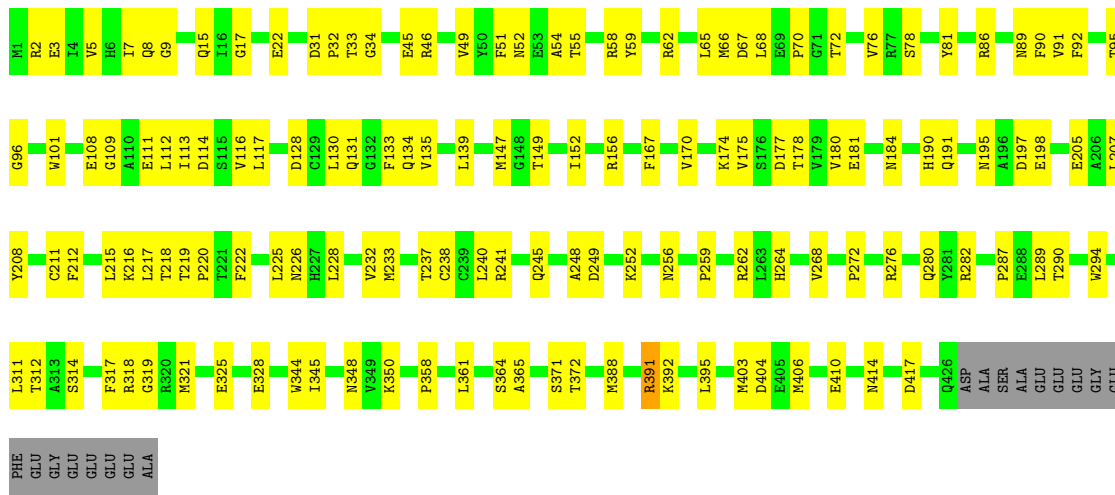




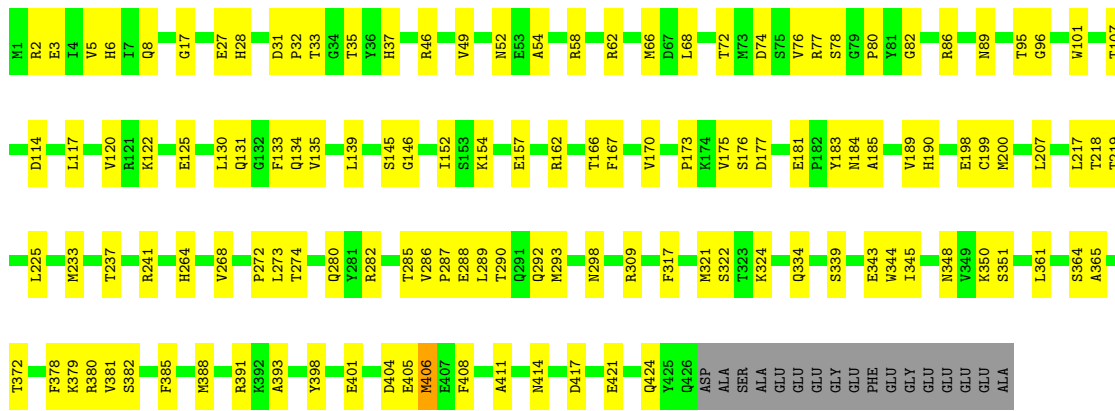
• Molecule 1: Tubulin beta



• Molecule 1: Tubulin beta



• Molecule 1: Tubulin beta

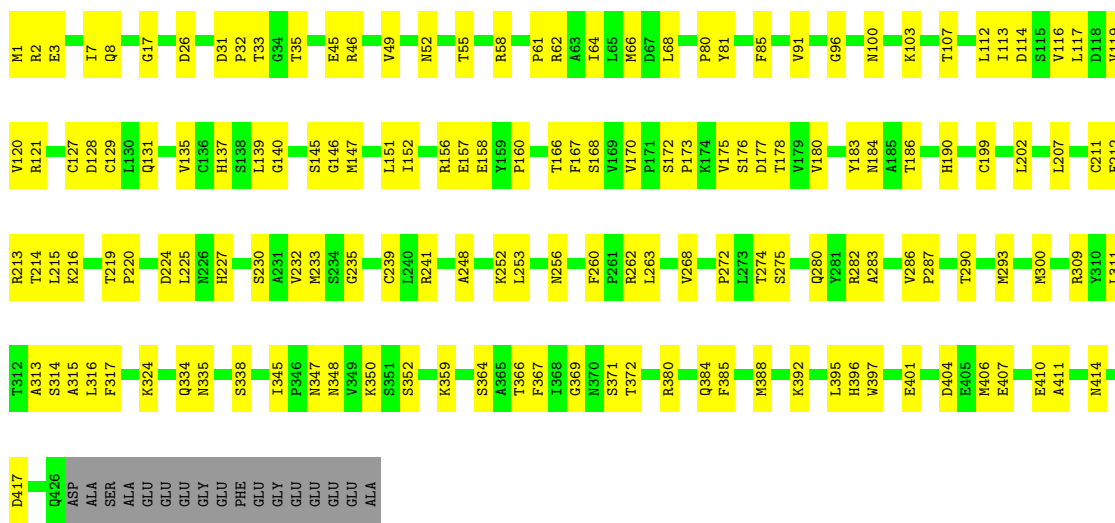


• Molecule 1: Tubulin beta

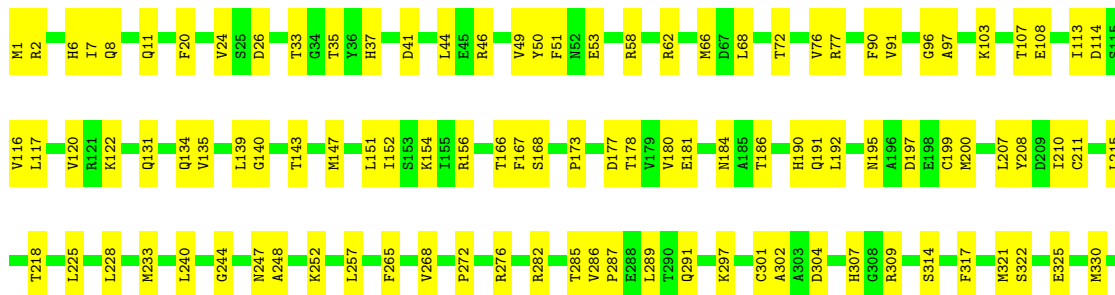


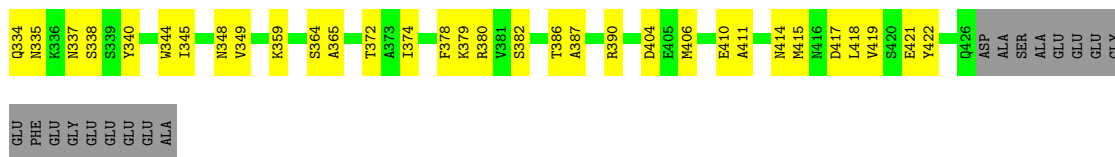


• Molecule 1: Tubulin beta

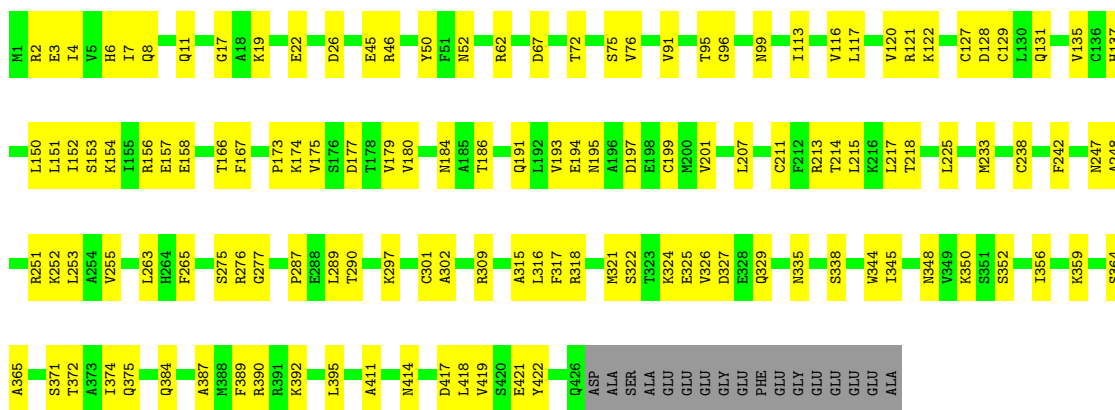


• Molecule 1: Tubulin beta

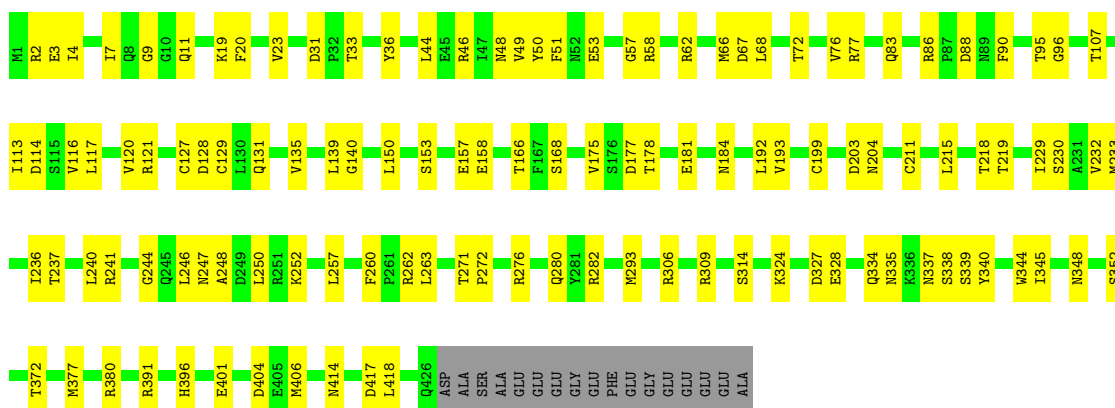




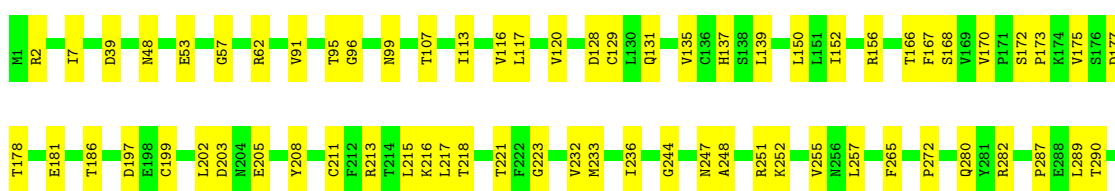
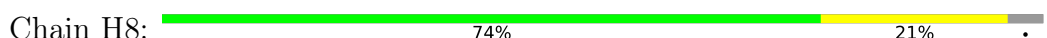
• Molecule 1: Tubulin beta

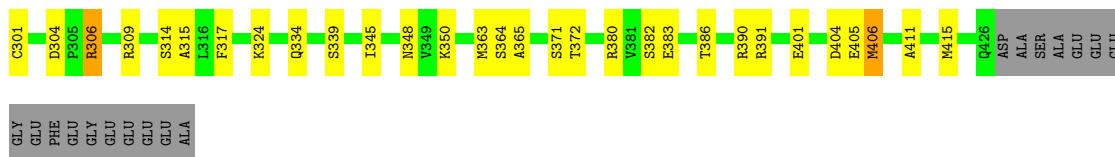


• Molecule 1: Tubulin beta

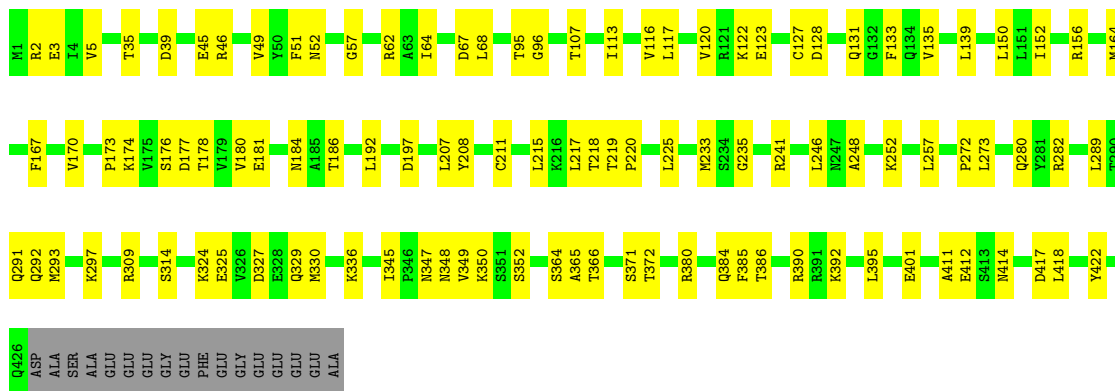


• Molecule 1: Tubulin beta

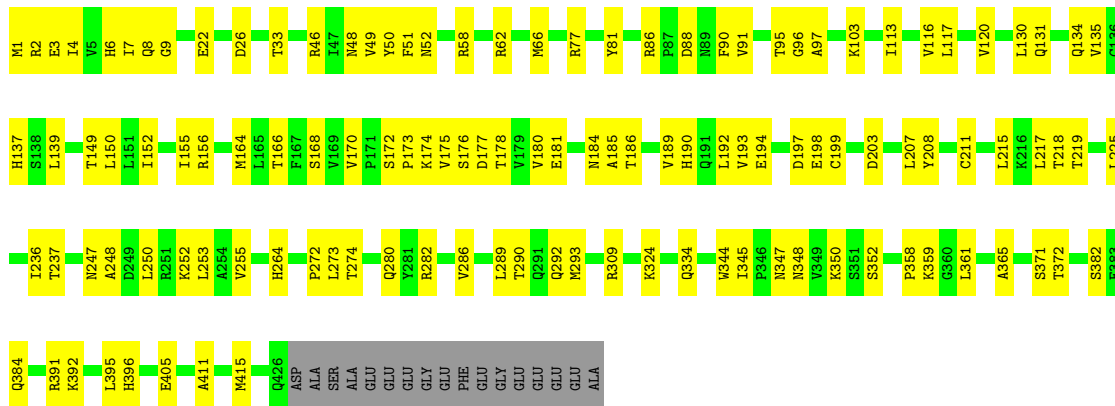




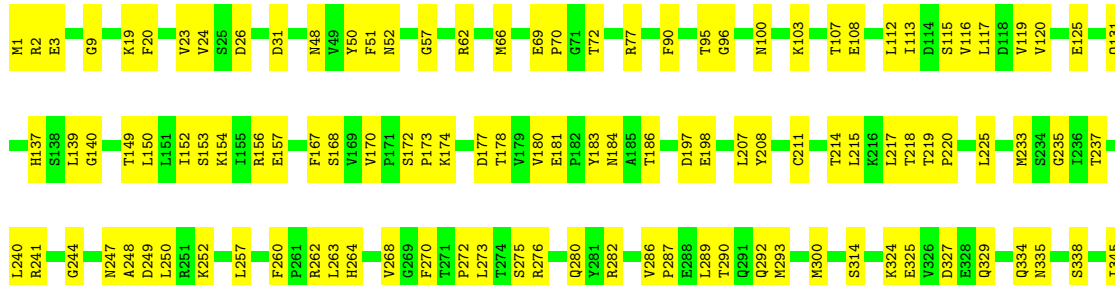
● Molecule 1: Tubulin beta



● Molecule 1: Tubulin beta

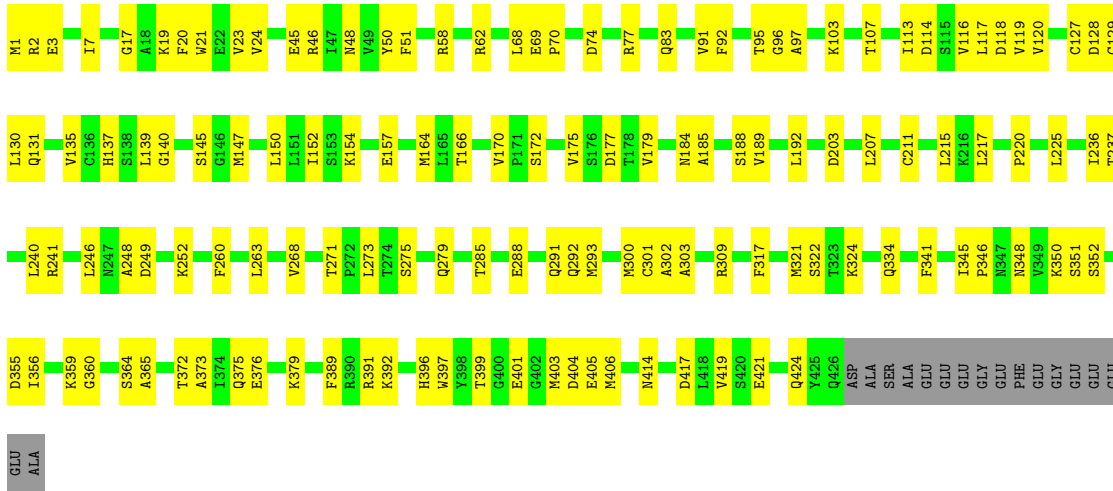


● Molecule 1: Tubulin beta

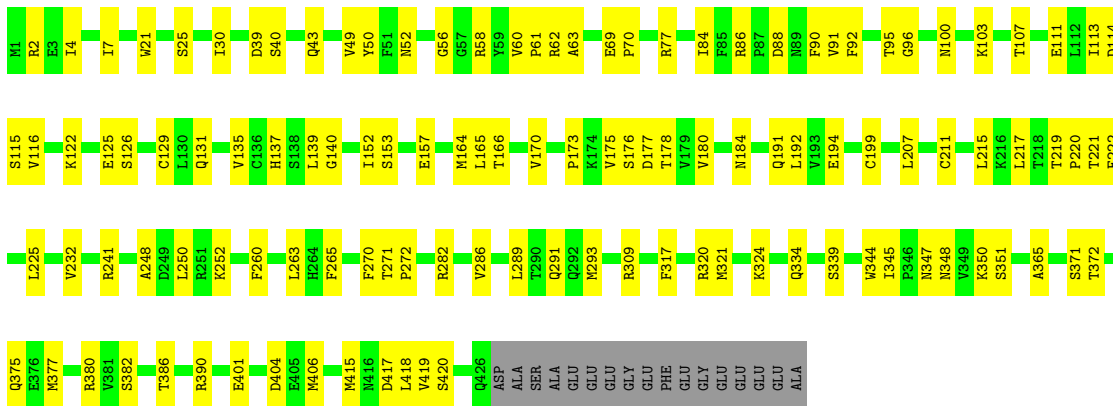




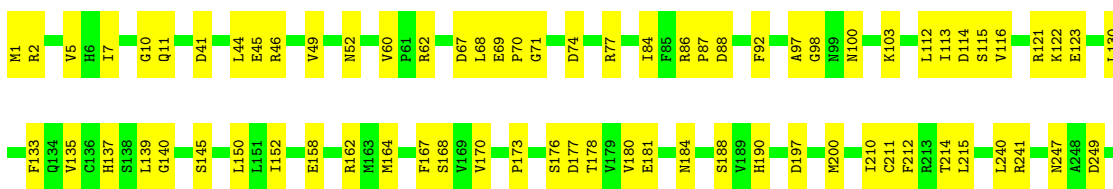
• Molecule 1: Tubulin beta

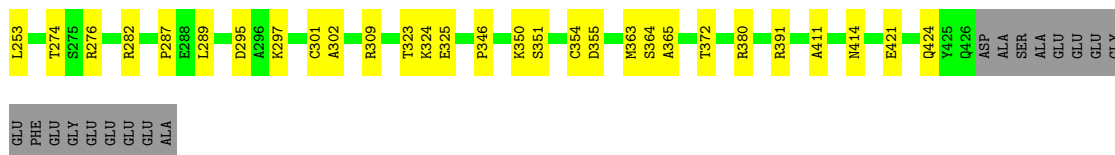


• Molecule 1: Tubulin beta

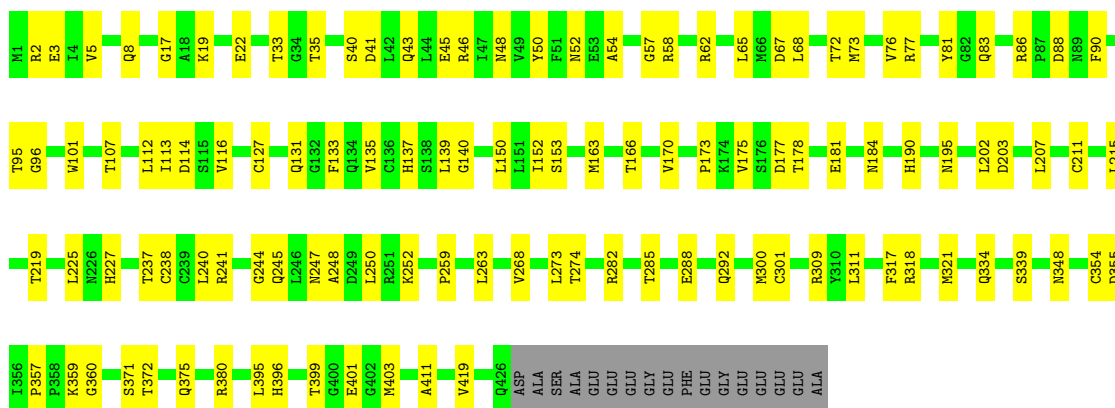


• Molecule 1: Tubulin beta

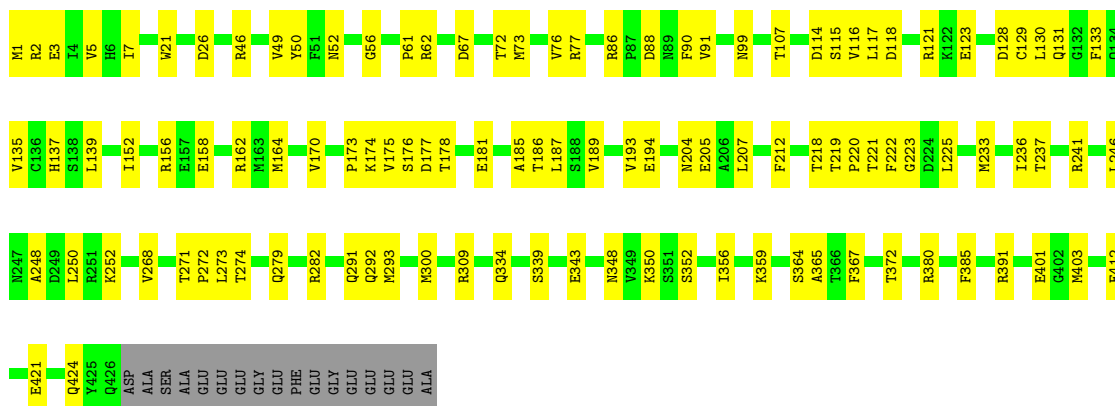




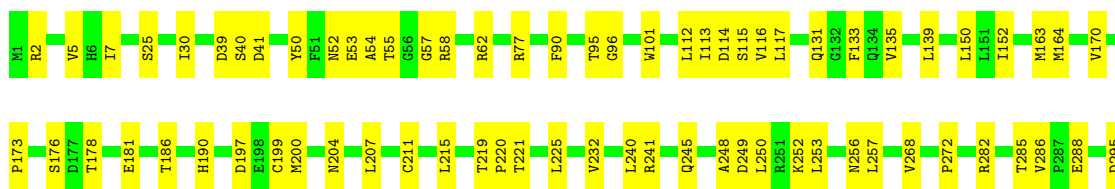
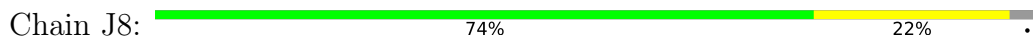
• Molecule 1: Tubulin beta



• Molecule 1: Tubulin beta

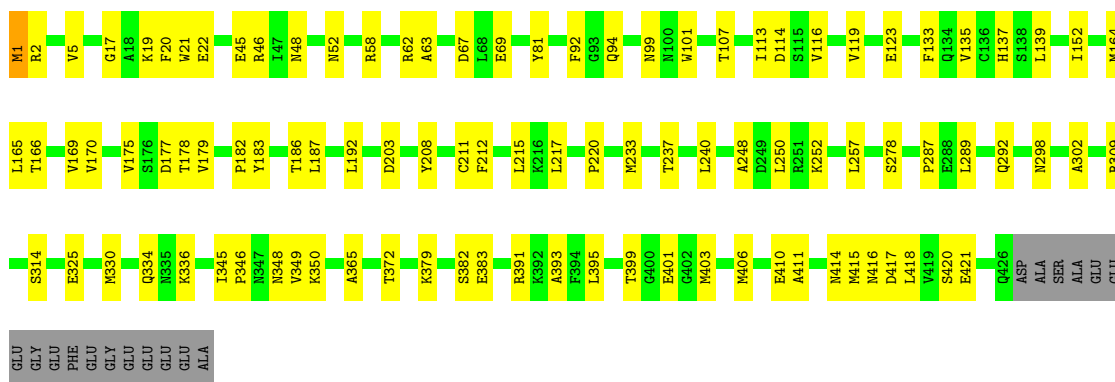
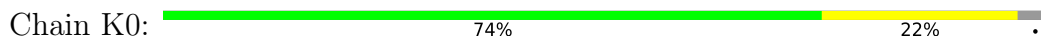


• Molecule 1: Tubulin beta

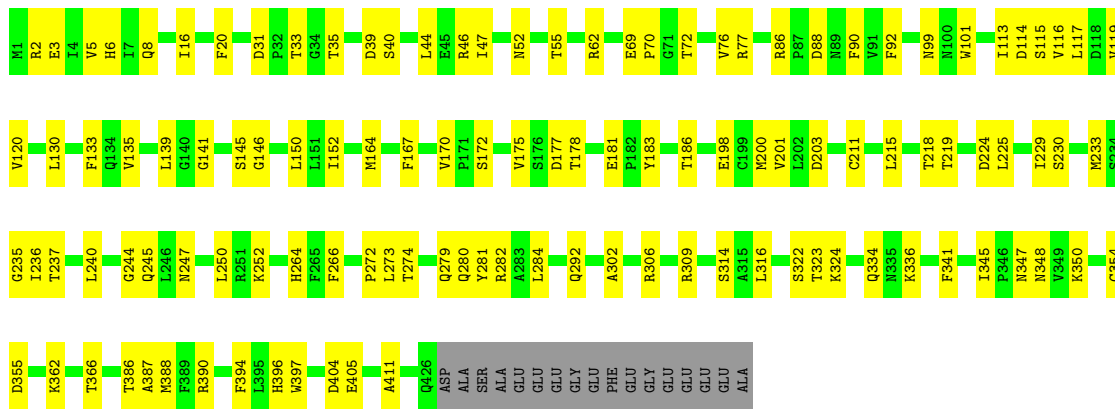




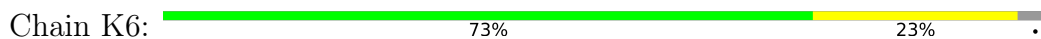
• Molecule 1: Tubulin beta



• Molecule 1: Tubulin beta



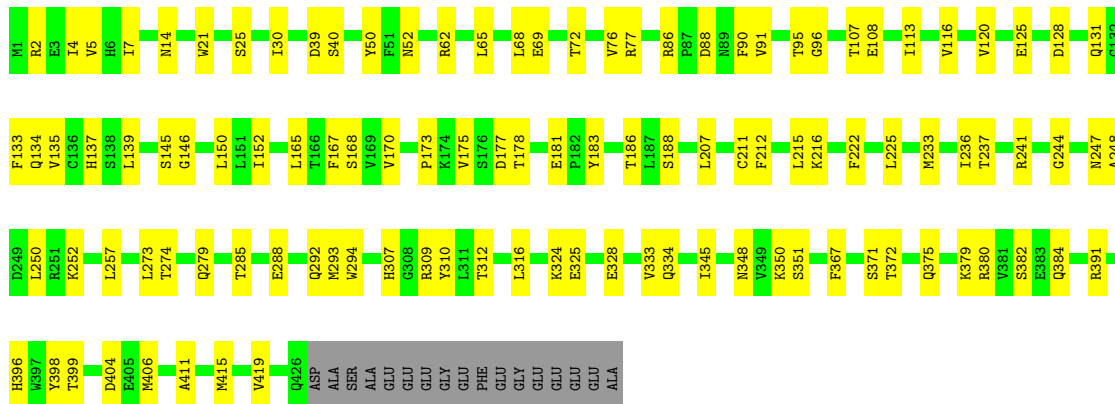
• Molecule 1: Tubulin beta



GLU
GLU
GLU
GLY
GLU
GLU
PHE
GLU
GLY
GLY
ALA

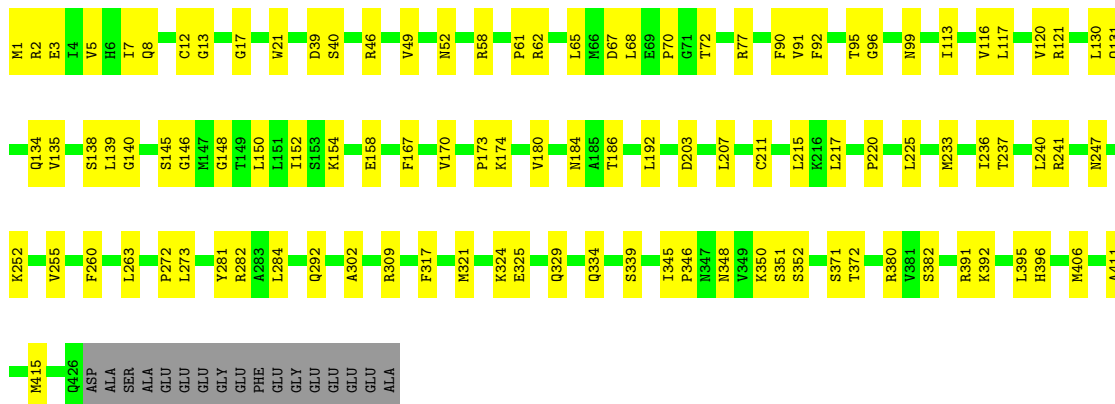
• Molecule 1: Tubulin beta

Chain K8:  71% 25%



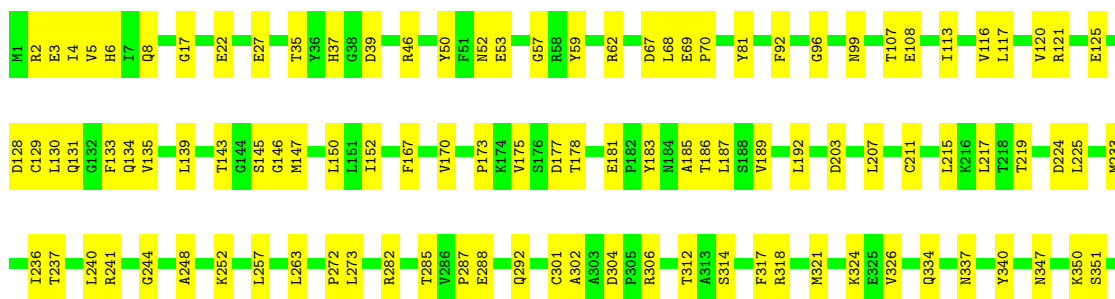
• Molecule 1: Tubulin beta

Chain L0:  72% 24%



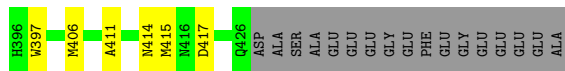
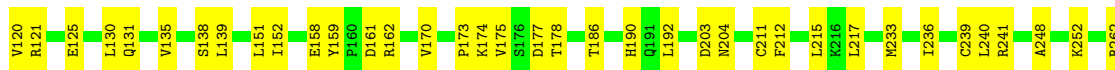
• Molecule 1: Tubulin beta

Chain L2:  70% 26%





• Molecule 1: Tubulin beta



• Molecule 1: Tubulin beta

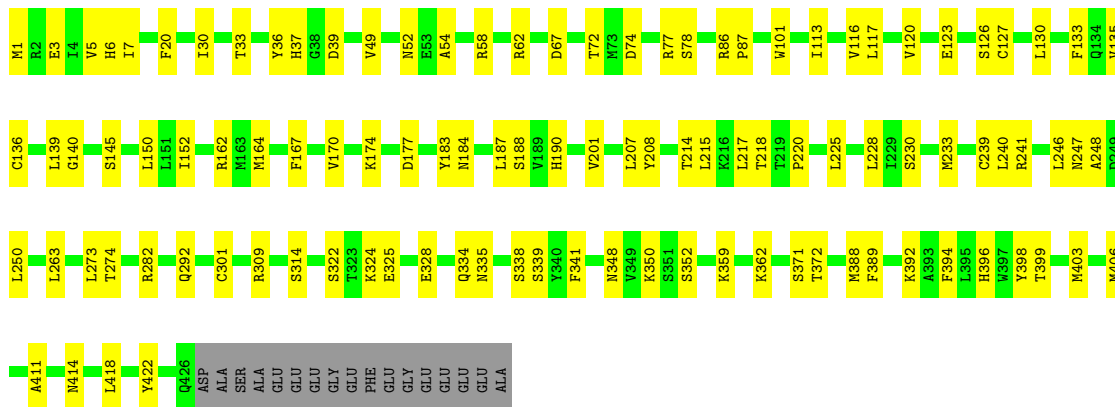


• Molecule 1: Tubulin beta

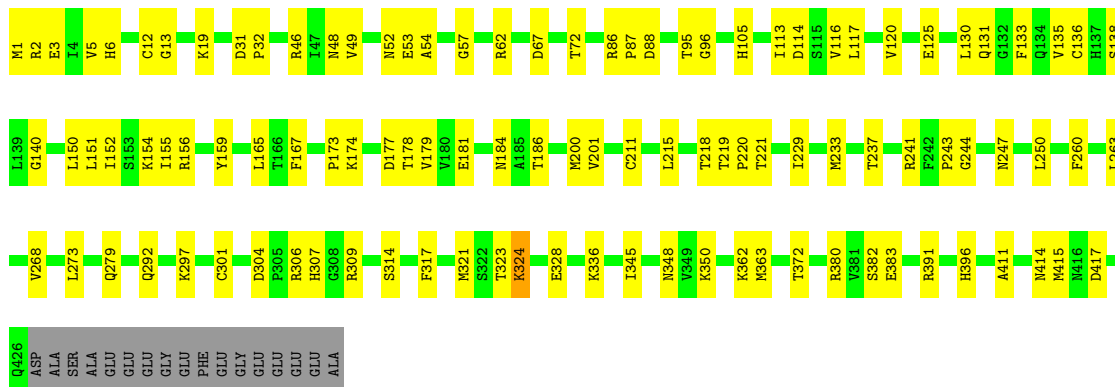




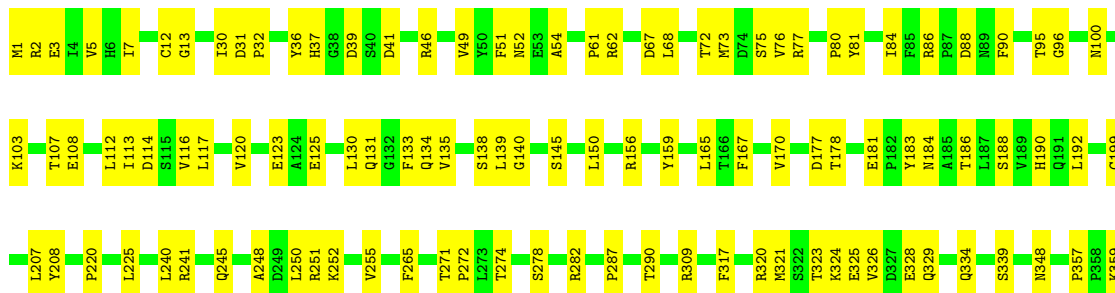
• Molecule 1: Tubulin beta



• Molecule 1: Tubulin beta



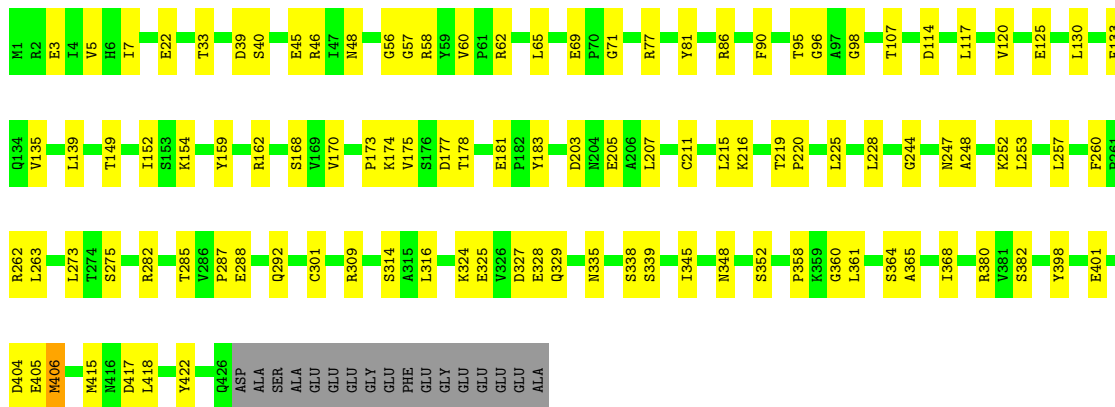
• Molecule 1: Tubulin beta





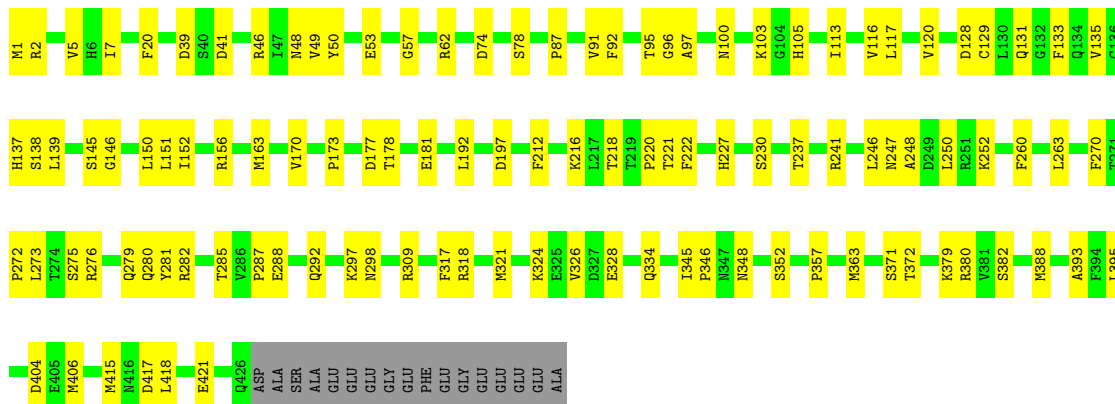
• Molecule 1: Tubulin beta

Chain M8:



• Molecule 1: Tubulin beta

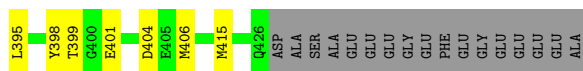
Chain N0:



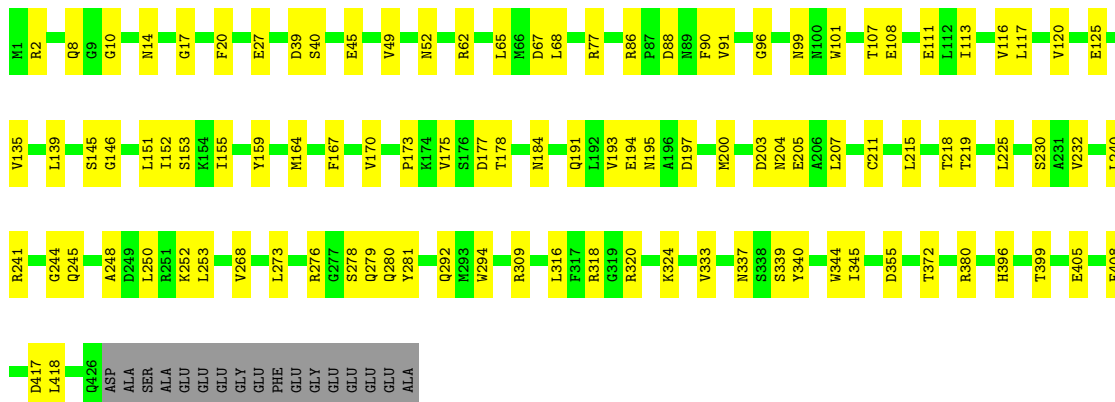
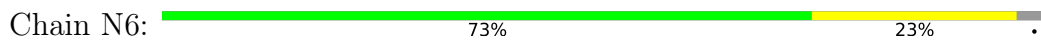
• Molecule 1: Tubulin beta

Chain N2:

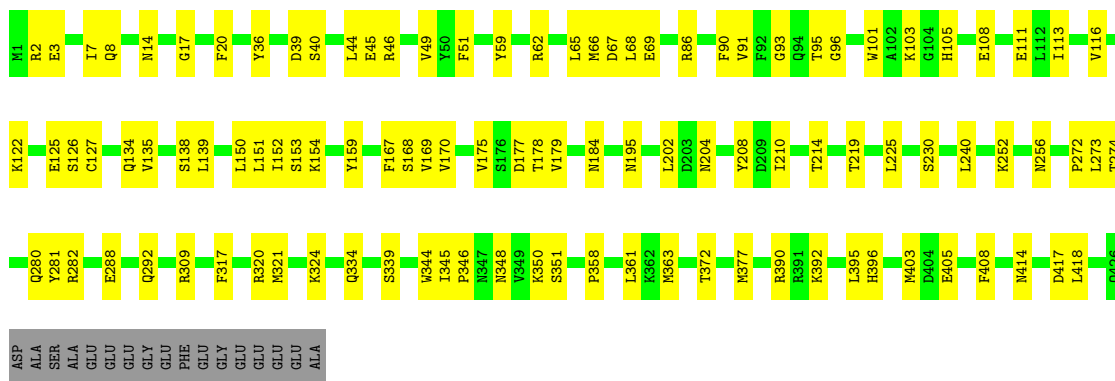




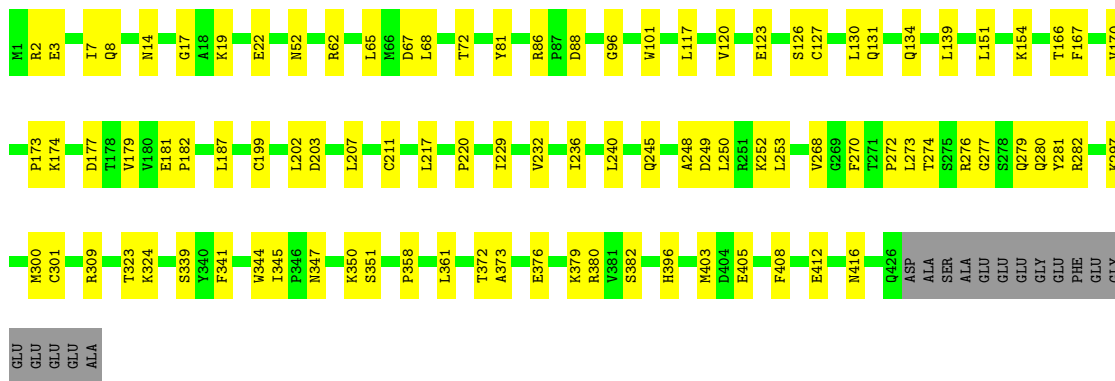
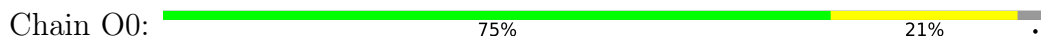
● Molecule 1: Tubulin beta



● Molecule 1: Tubulin beta



● Molecule 1: Tubulin beta



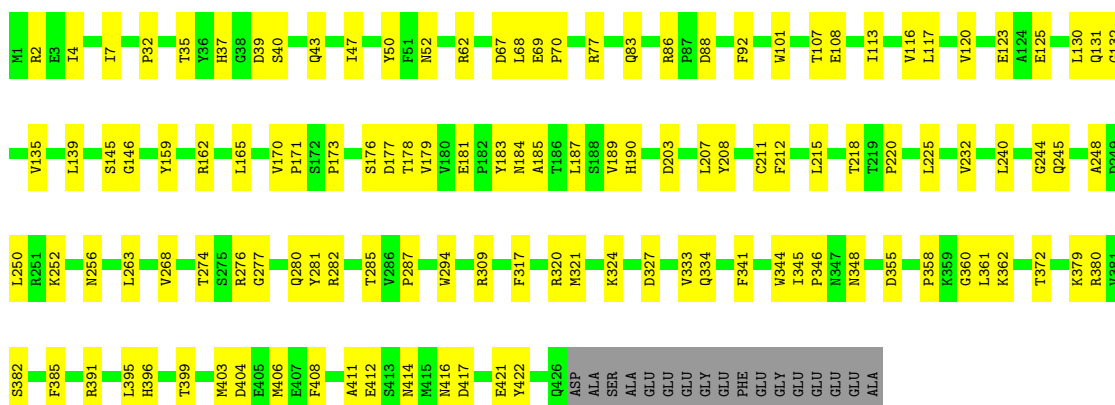
• Molecule 1: Tubulin beta

Chain O2: 72% 24%



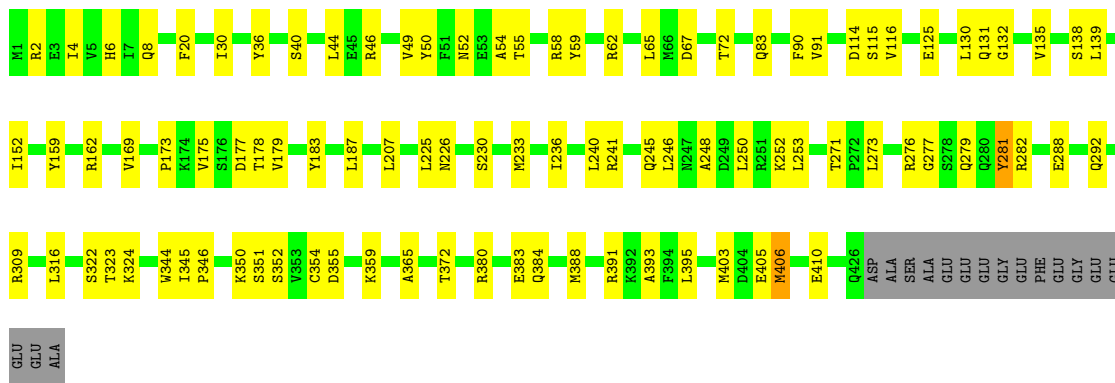
• Molecule 1: Tubulin beta

Chain O4: 69% 27%



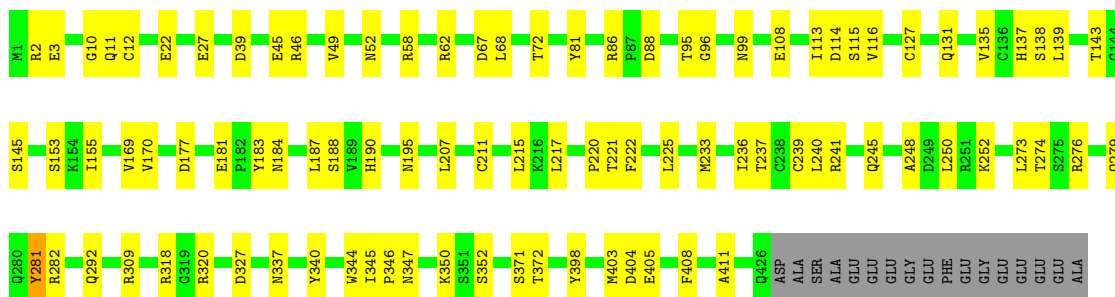
• Molecule 1: Tubulin beta

Chain O6: 75% 21%



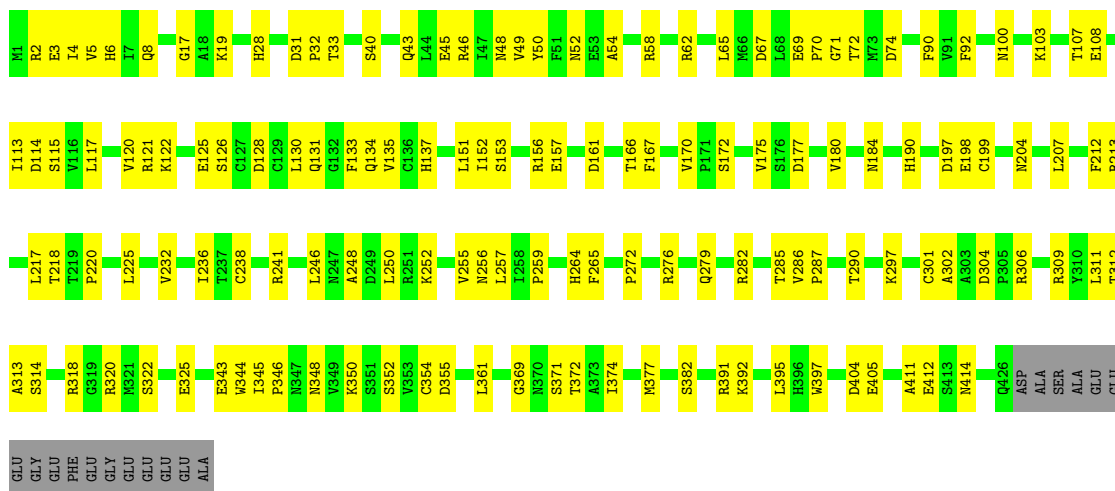
• Molecule 1: Tubulin beta

Chain O8: 75% 21%



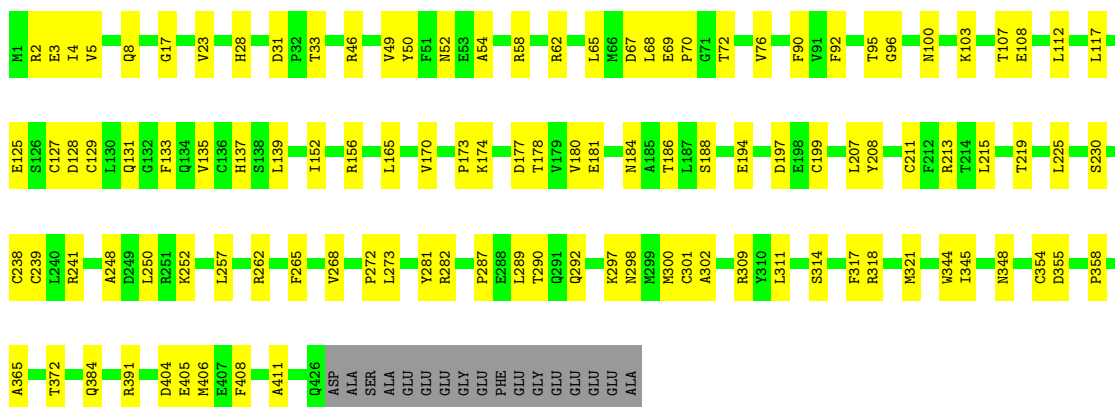
• Molecule 1: Tubulin beta

Chain P4: 65% 31%



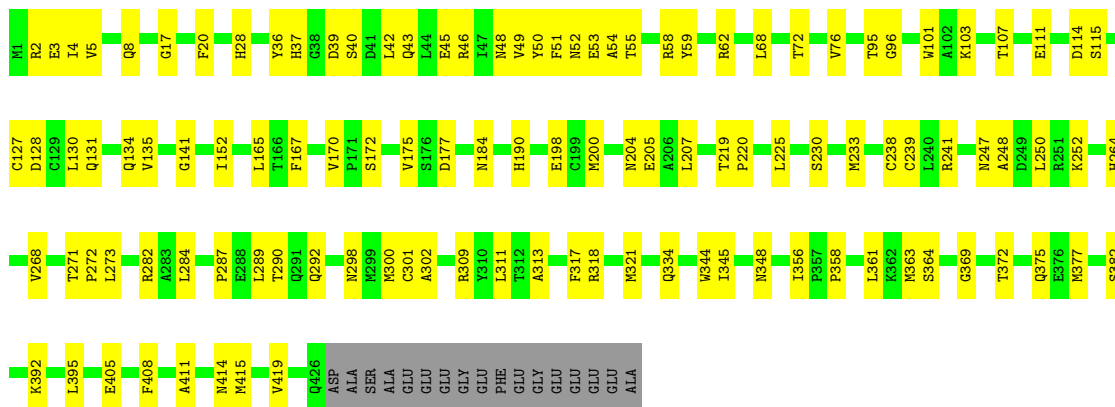
• Molecule 1: Tubulin beta

Chain P6: 71% 25%

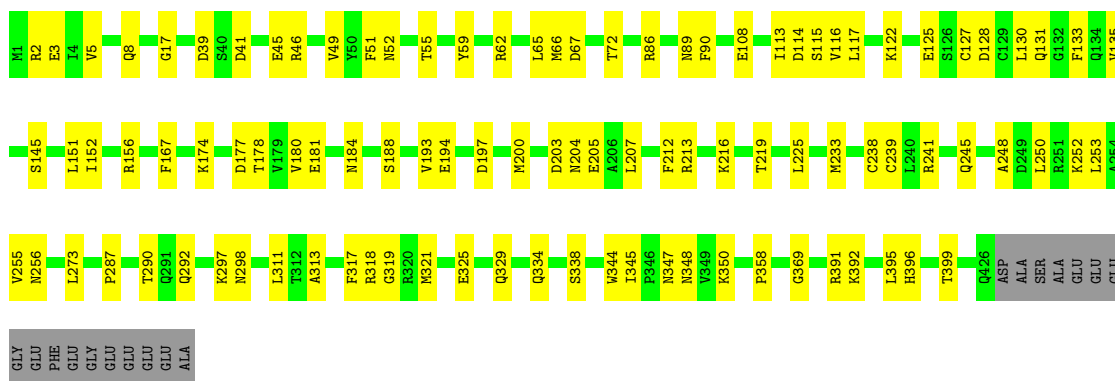
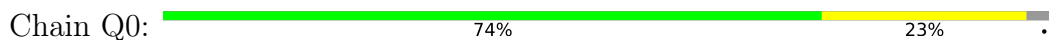


• Molecule 1: Tubulin beta

Chain P8: 70% 26%



• Molecule 1: Tubulin beta

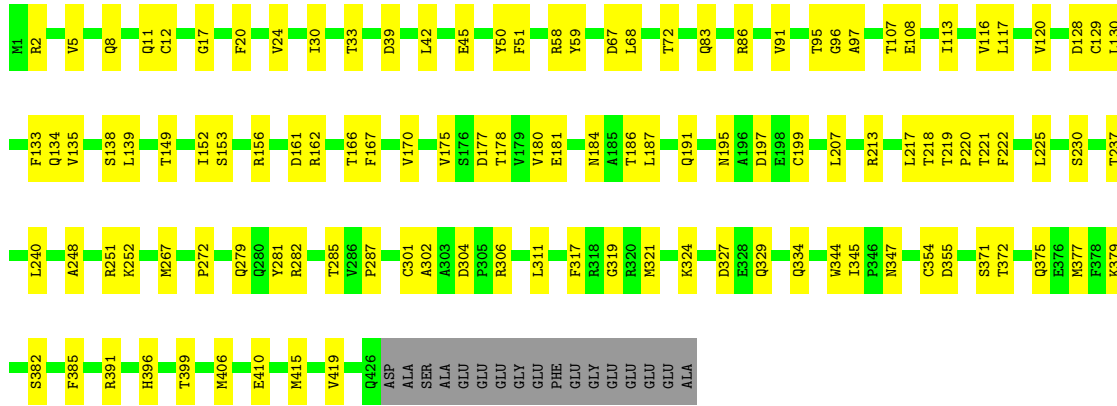


• Molecule 1: Tubulin beta

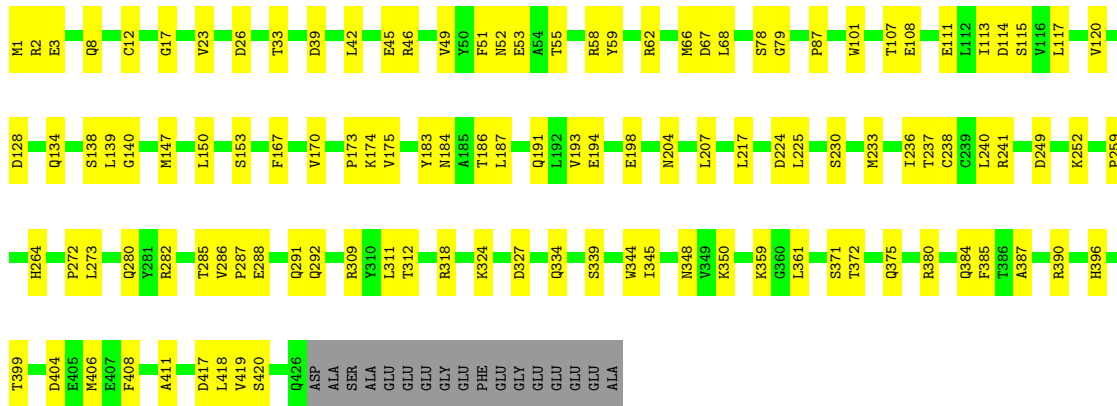


• Molecule 1: Tubulin beta

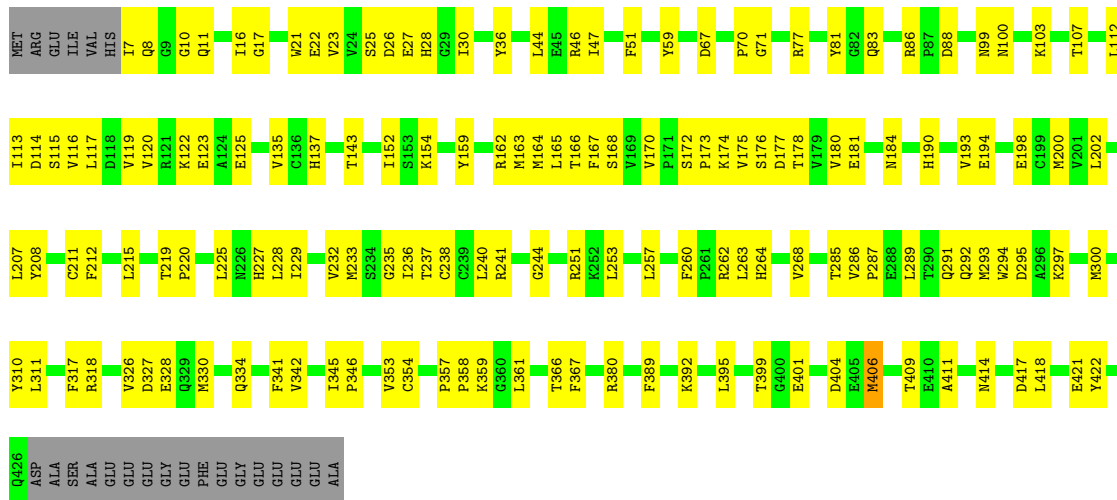




• Molecule 1: Tubulin beta

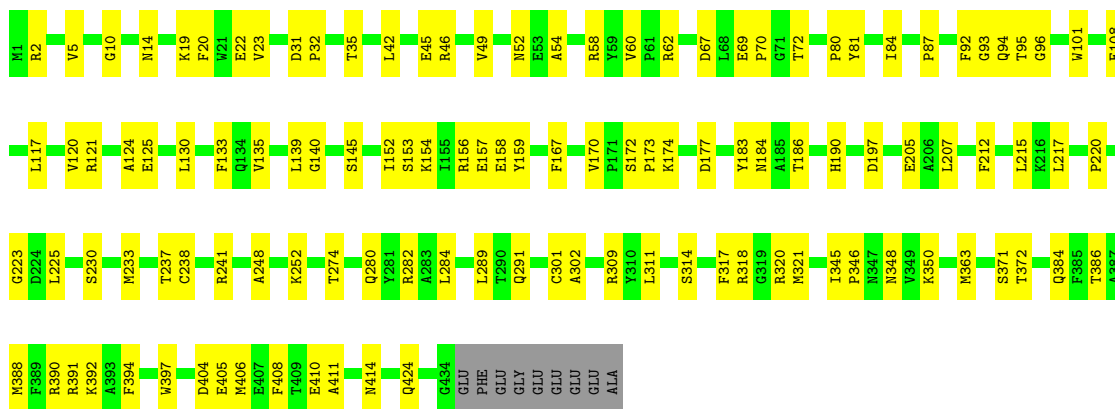


• Molecule 1: Tubulin beta



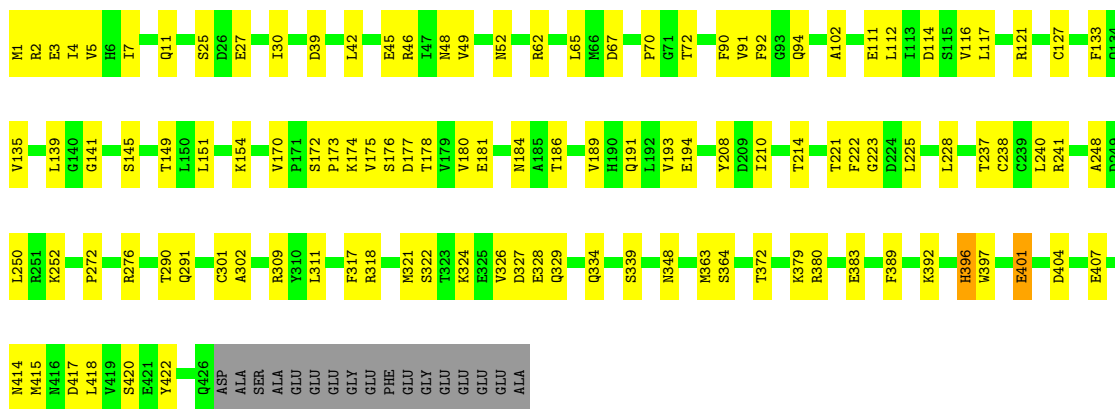
• Molecule 1: Tubulin beta

Chain R0:  72% 26%



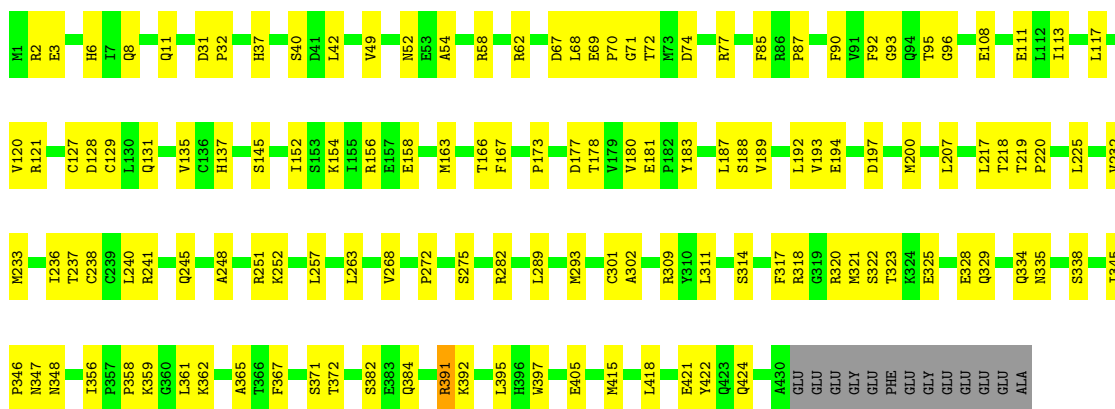
● Molecule 1: Tubulin beta

Chain R2:  71% 25%



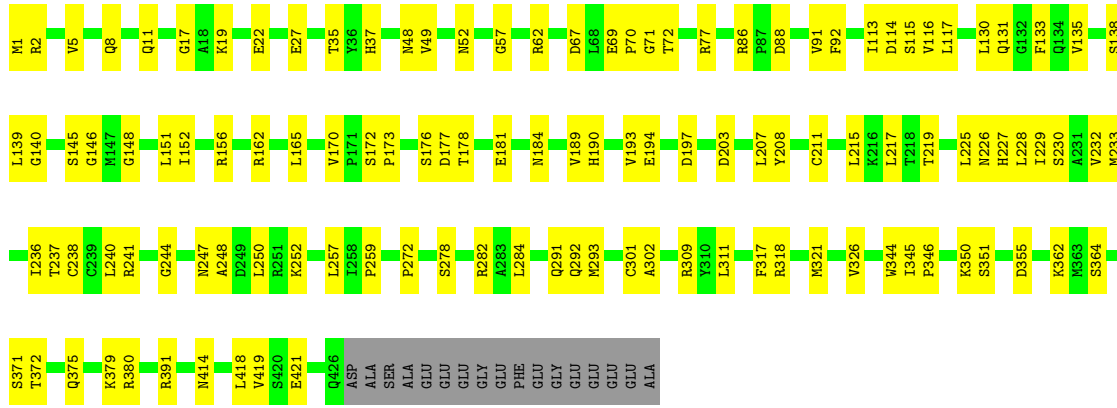
● Molecule 1: Tubulin beta

Chain R4:  67% 29%

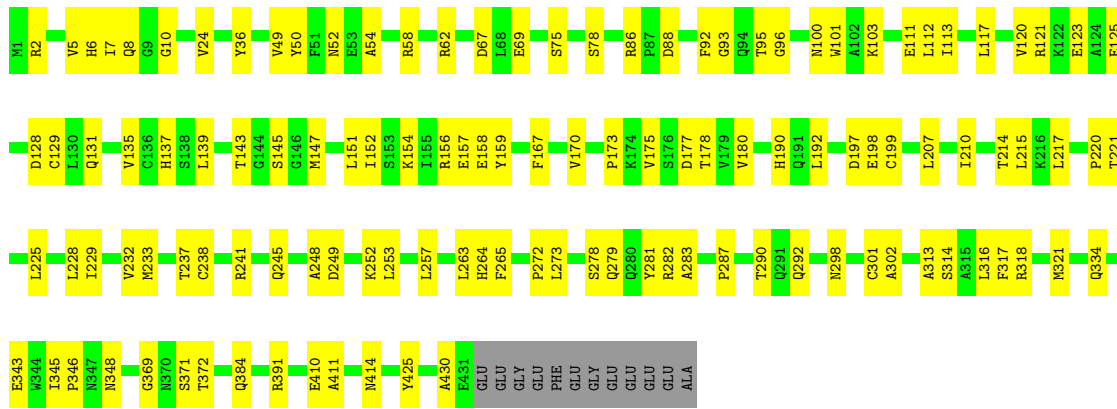


● Molecule 1: Tubulin beta

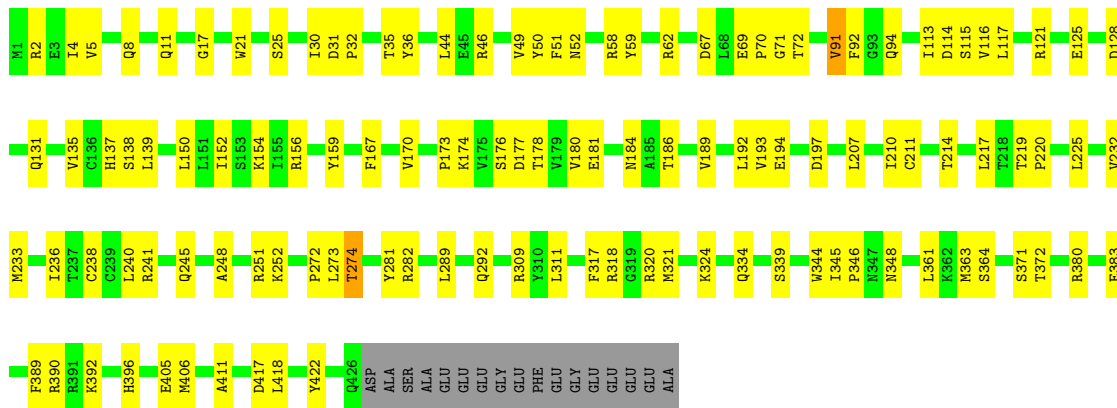
Chain R6:  69% 27%



• Molecule 1: Tubulin beta

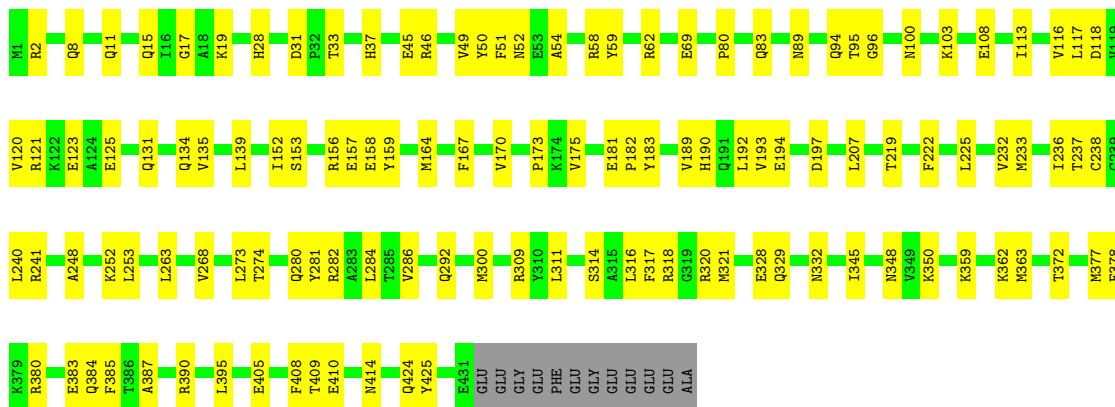


• Molecule 1: Tubulin beta

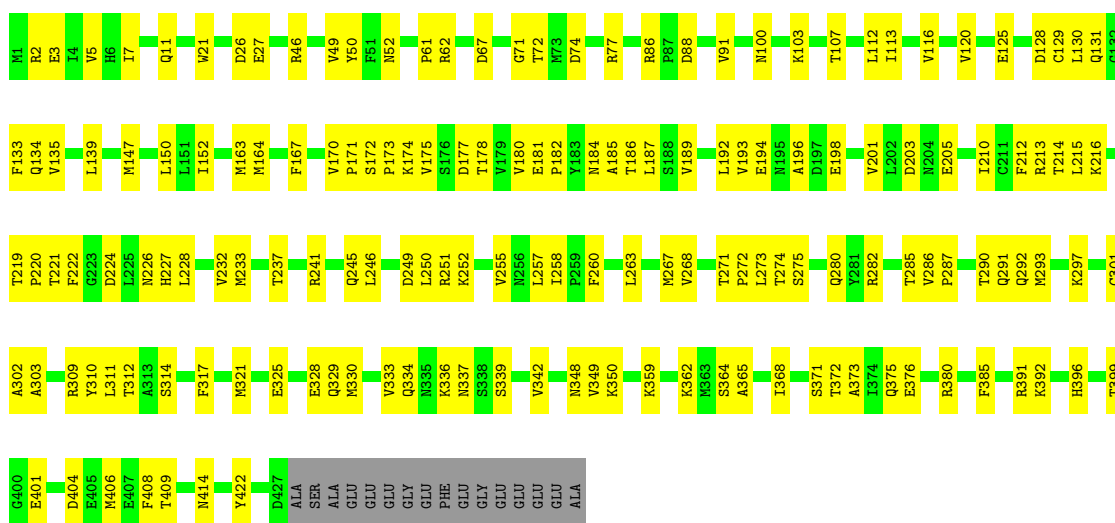


• Molecule 1: Tubulin beta

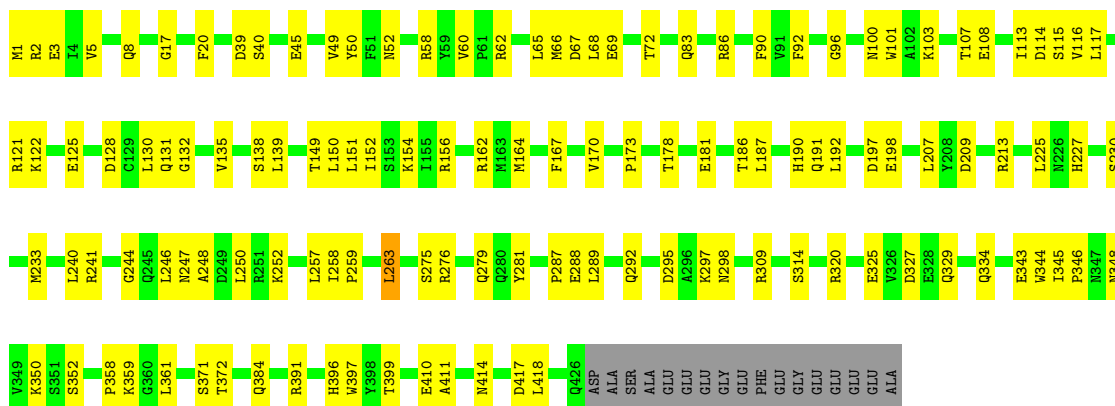




• Molecule 1: Tubulin beta

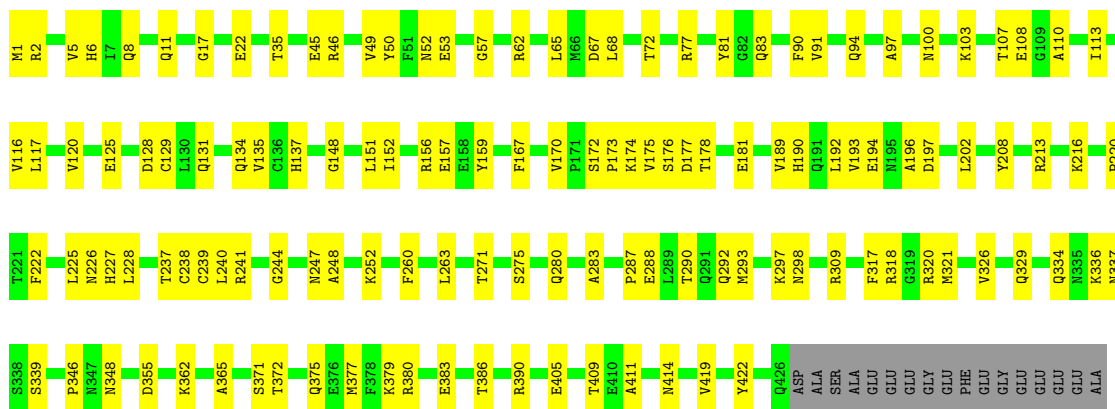


• Molecule 1: Tubulin beta



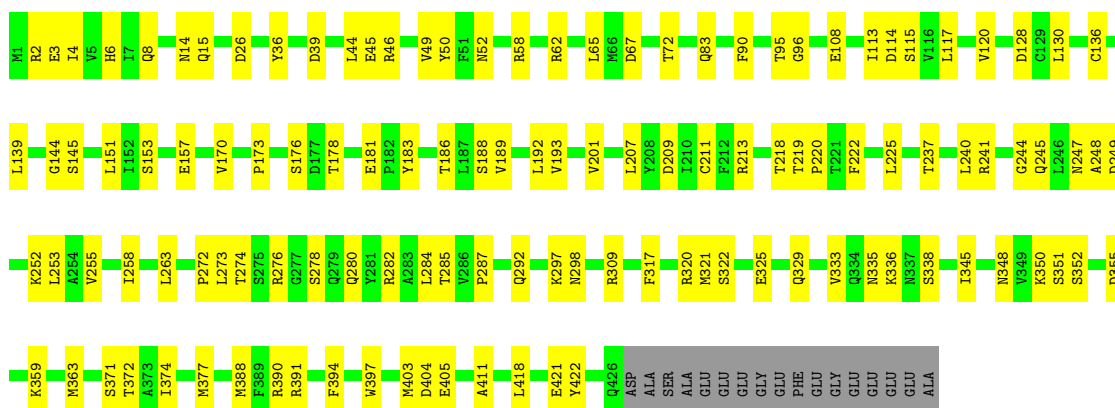
• Molecule 1: Tubulin beta

Chain S8: 67% 29%



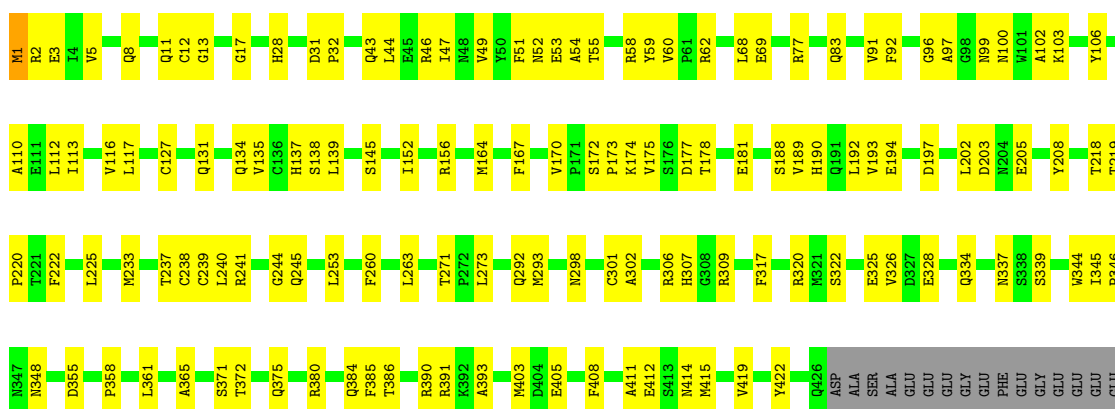
• Molecule 1: Tubulin beta

Chain T0: 69% 28%

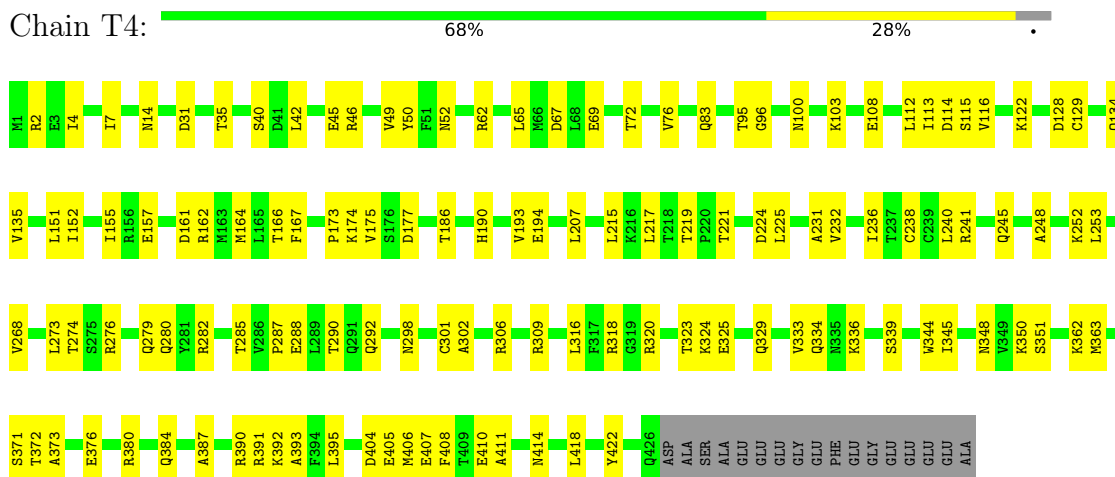


• Molecule 1: Tubulin beta

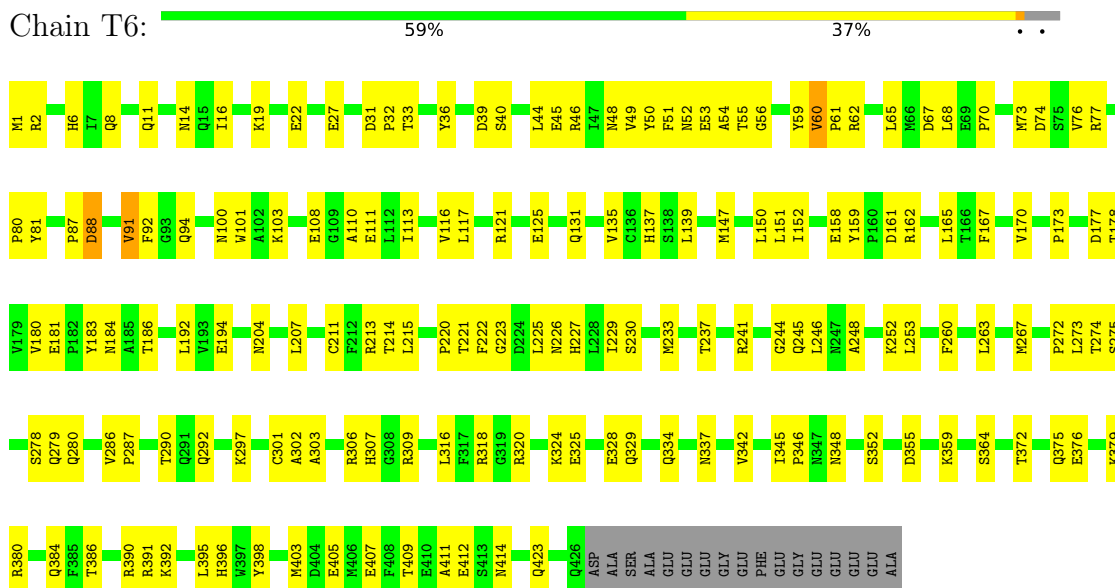
Chain T2: 65% 31%



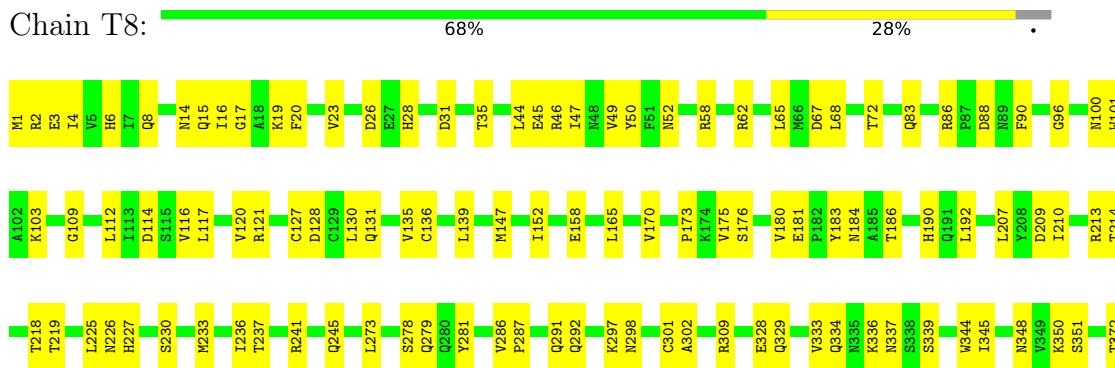
● Molecule 1: Tubulin beta

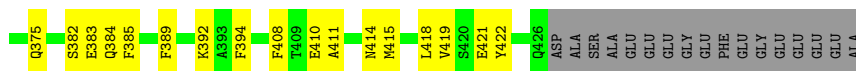


● Molecule 1: Tubulin beta

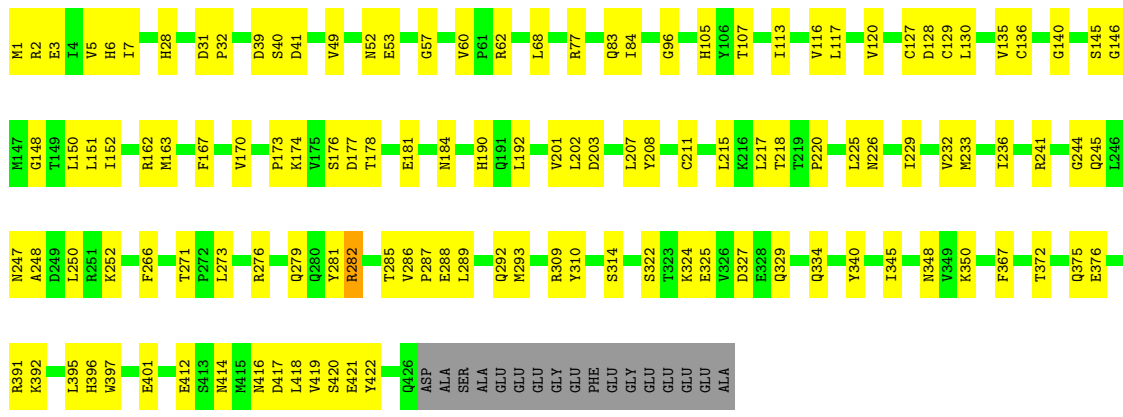


● Molecule 1: Tubulin beta

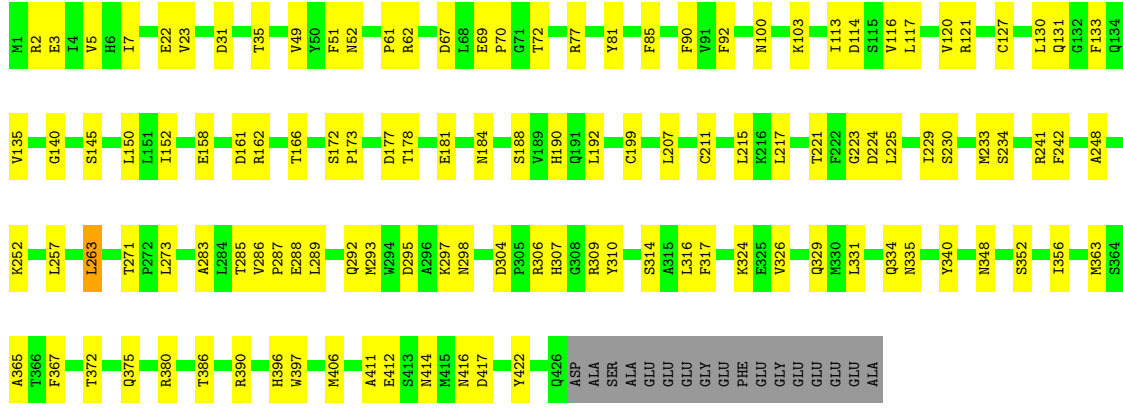




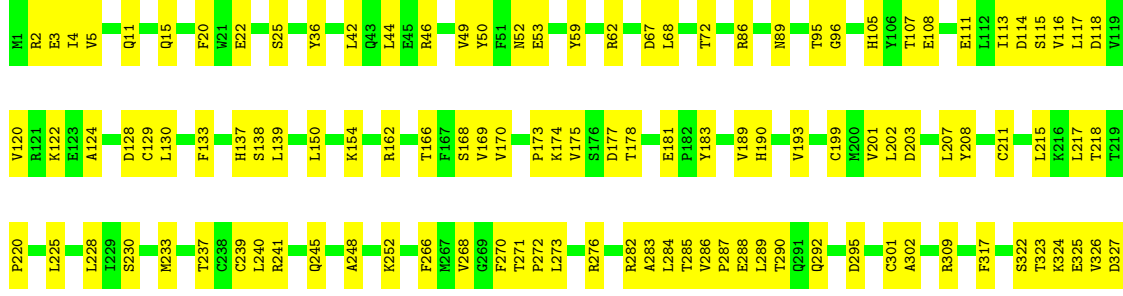
• Molecule 1: Tubulin beta



• Molecule 1: Tubulin beta



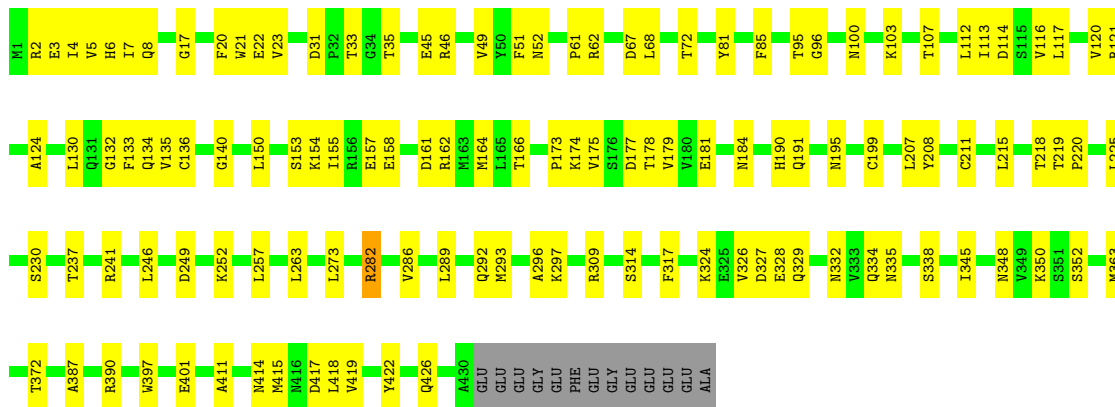
• Molecule 1: Tubulin beta





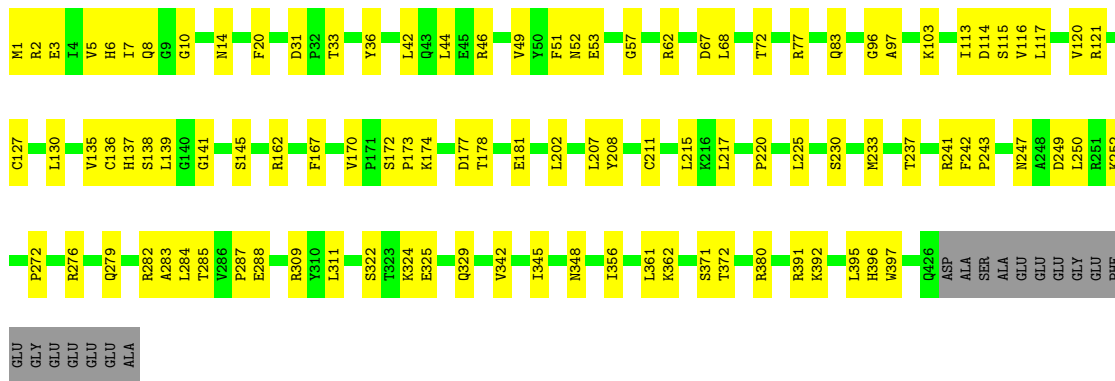
● Molecule 1: Tubulin beta

Chain U8: 69% 28%



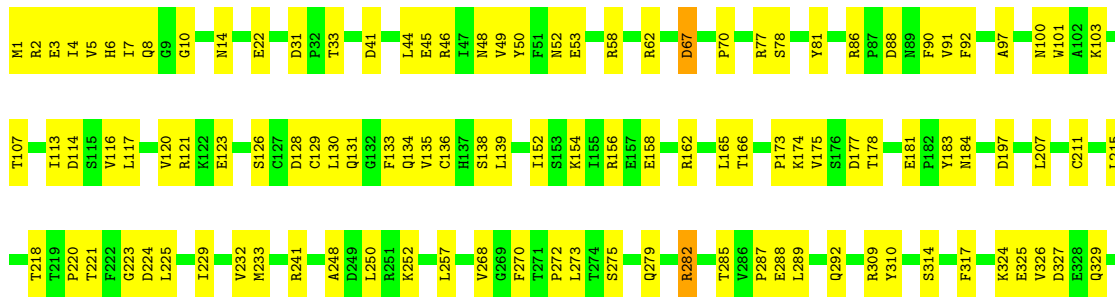
● Molecule 1: Tubulin beta

Chain V0: 73% 23%



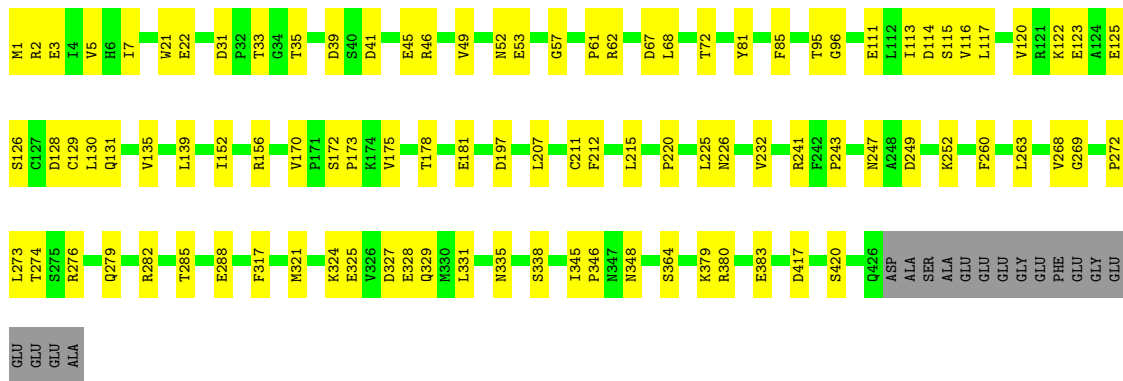
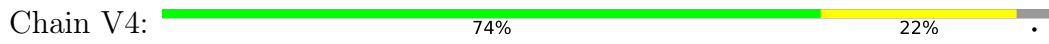
● Molecule 1: Tubulin beta

Chain V2: 68% 28%

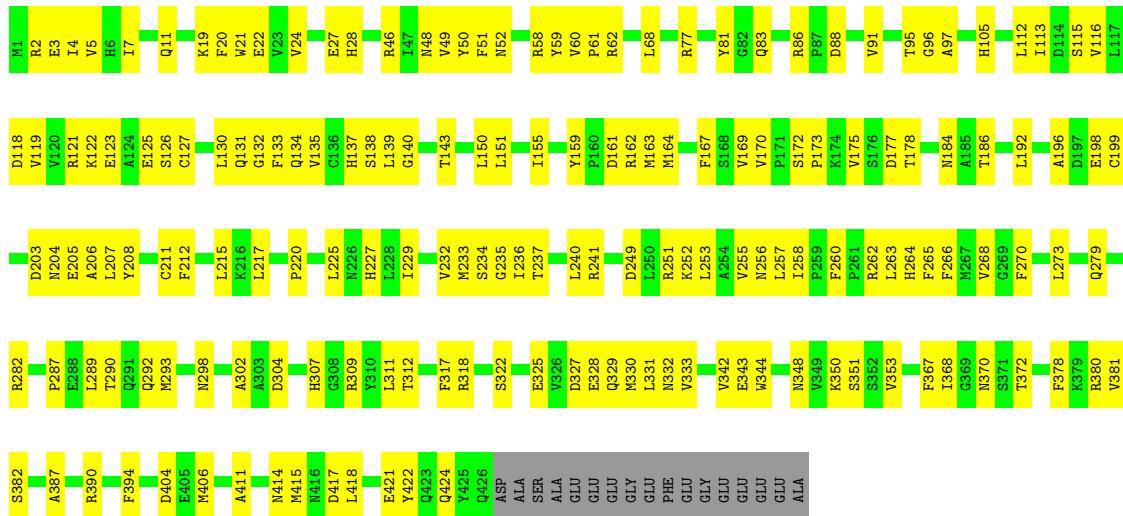




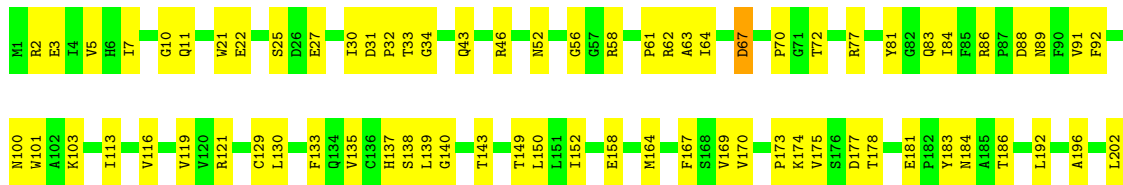
● Molecule 1: Tubulin beta

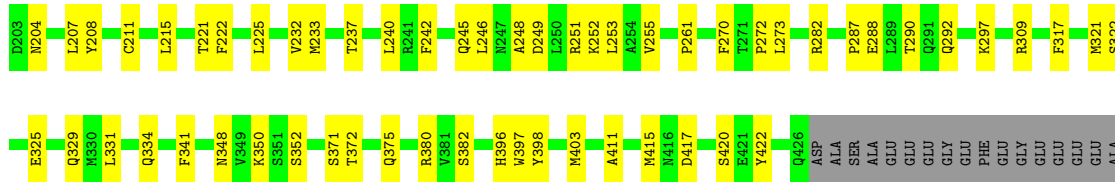


● Molecule 1: Tubulin beta

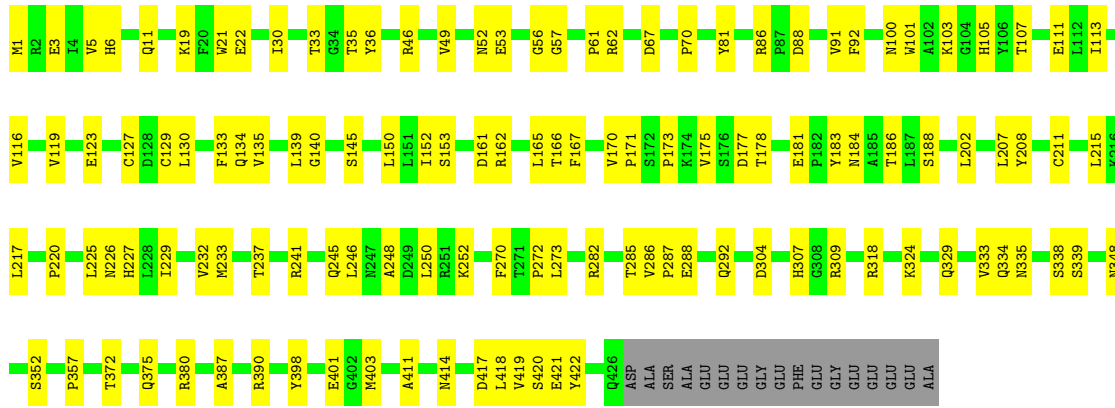


● Molecule 1: Tubulin beta





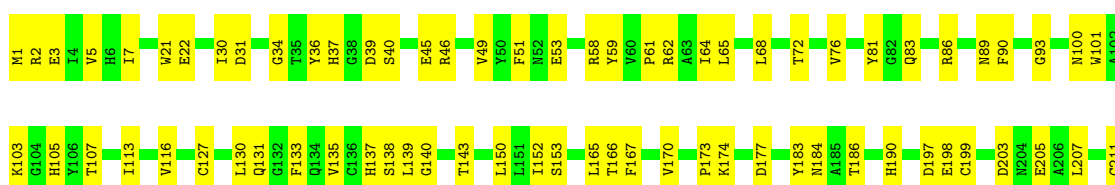
• Molecule 1: Tubulin beta



• Molecule 1: Tubulin beta



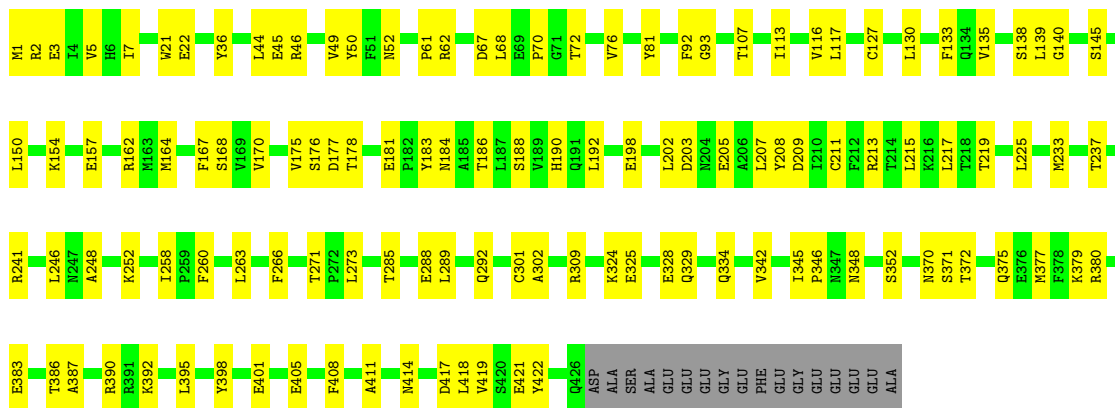
• Molecule 1: Tubulin beta





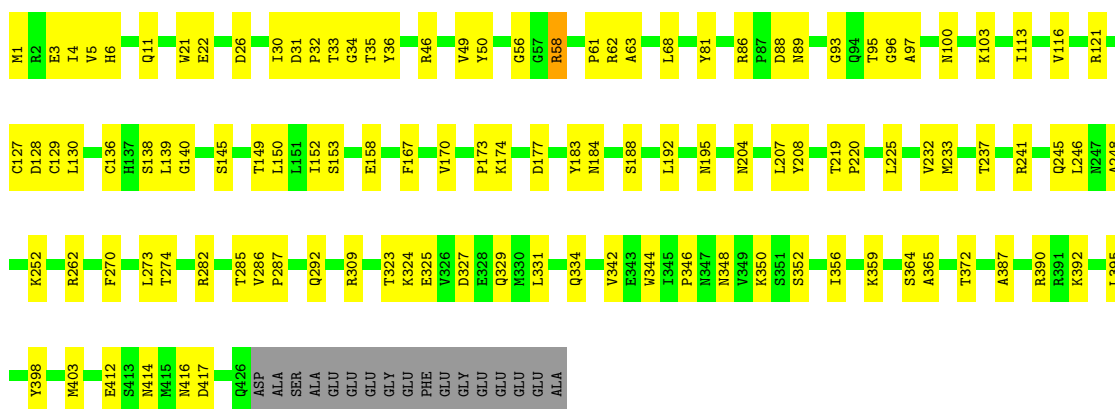
• Molecule 1: Tubulin beta

Chain W6: 69% 27%



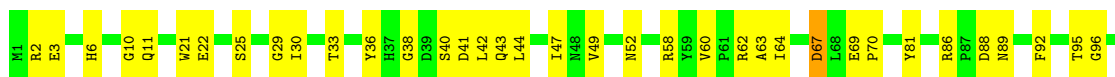
• Molecule 1: Tubulin beta

Chain W8: 70% 26%



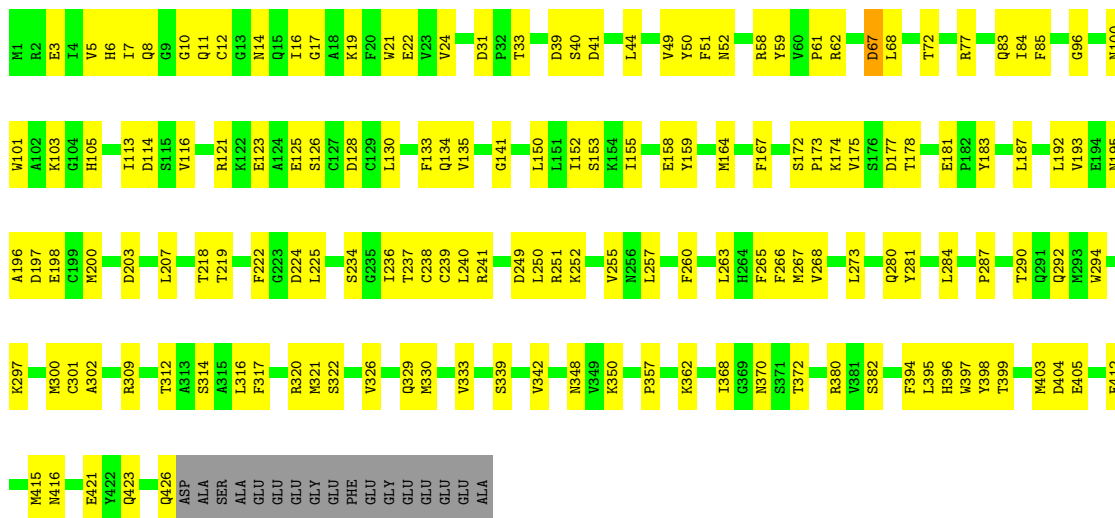
• Molecule 1: Tubulin beta

Chain X0: 68% 28%

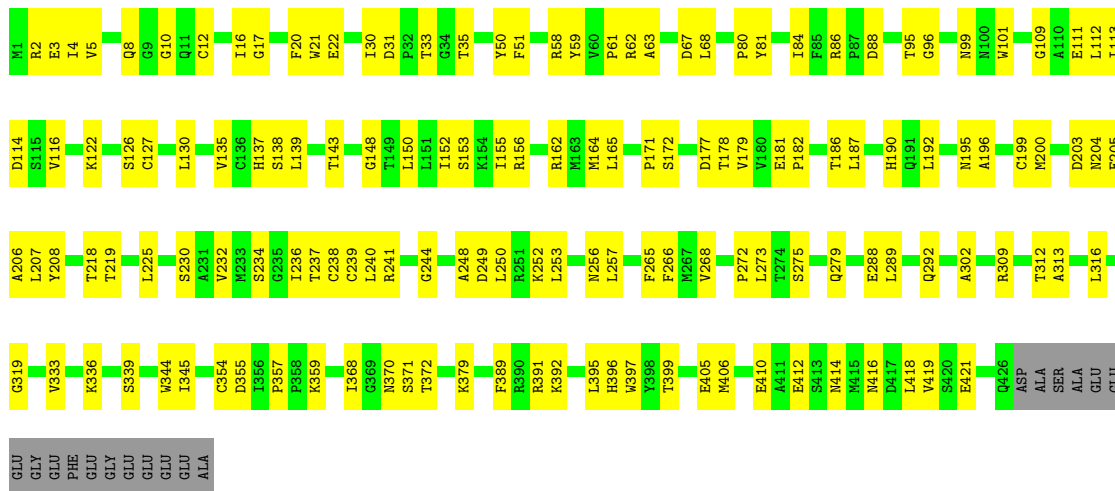




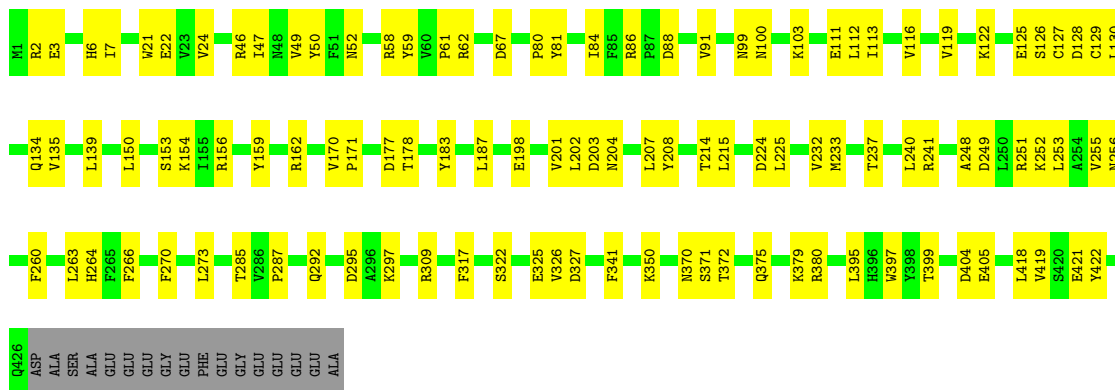
• Molecule 1: Tubulin beta



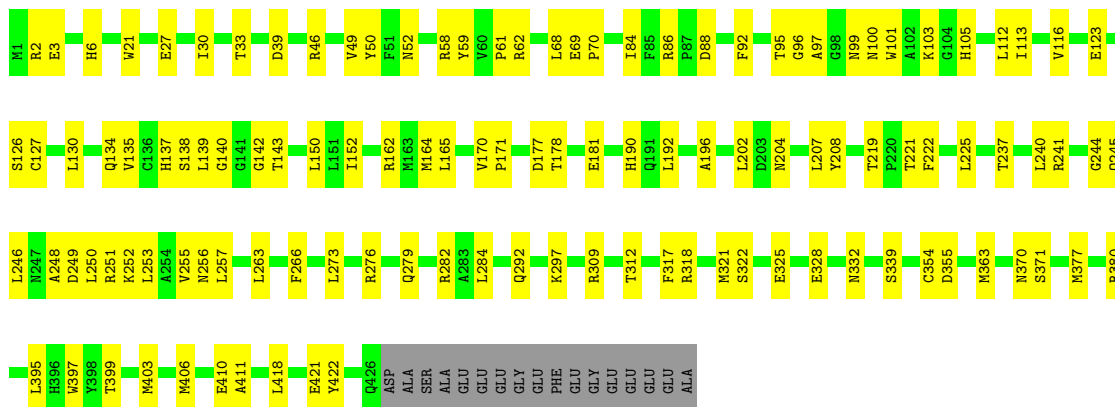
• Molecule 1: Tubulin beta



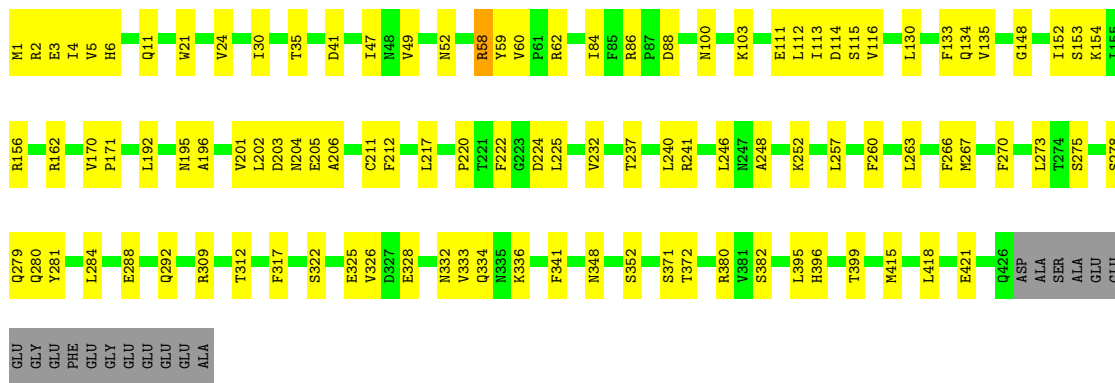
• Molecule 1: Tubulin beta



• Molecule 1: Tubulin beta



• Molecule 1: Tubulin beta

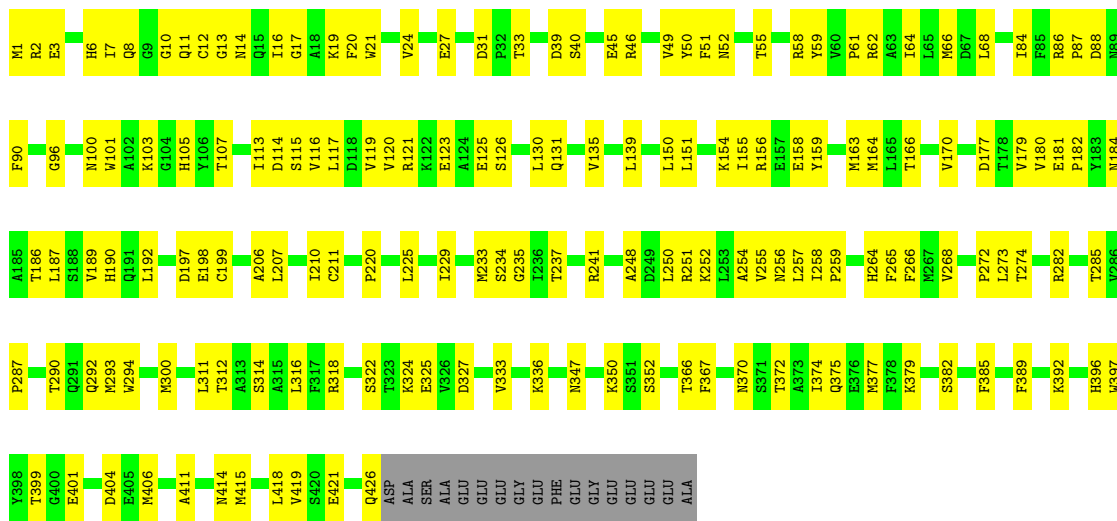


• Molecule 1: Tubulin beta

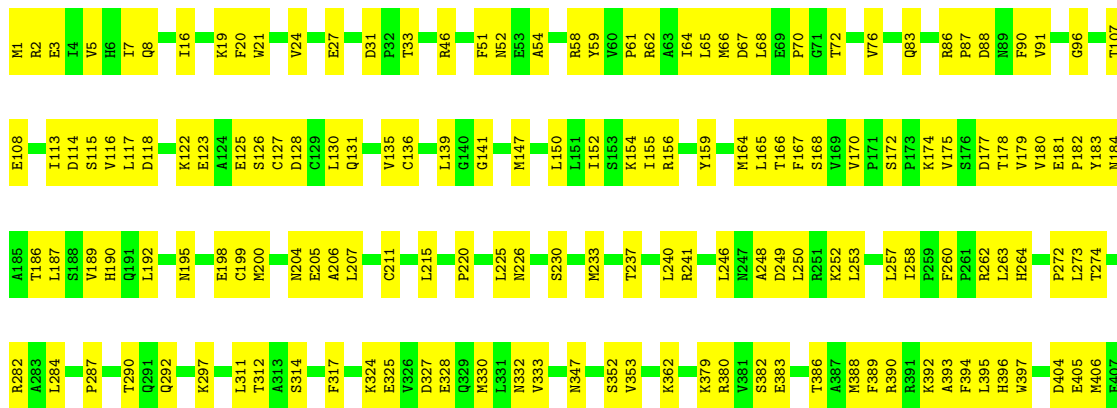


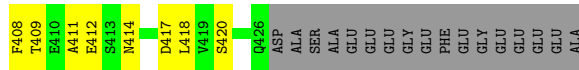


• Molecule 1: Tubulin beta

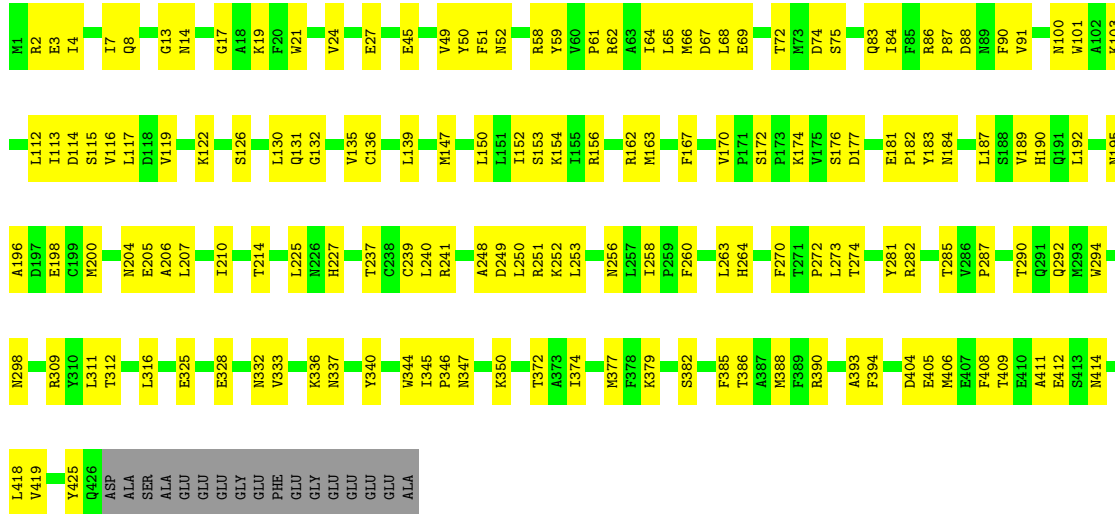


• Molecule 1: Tubulin beta

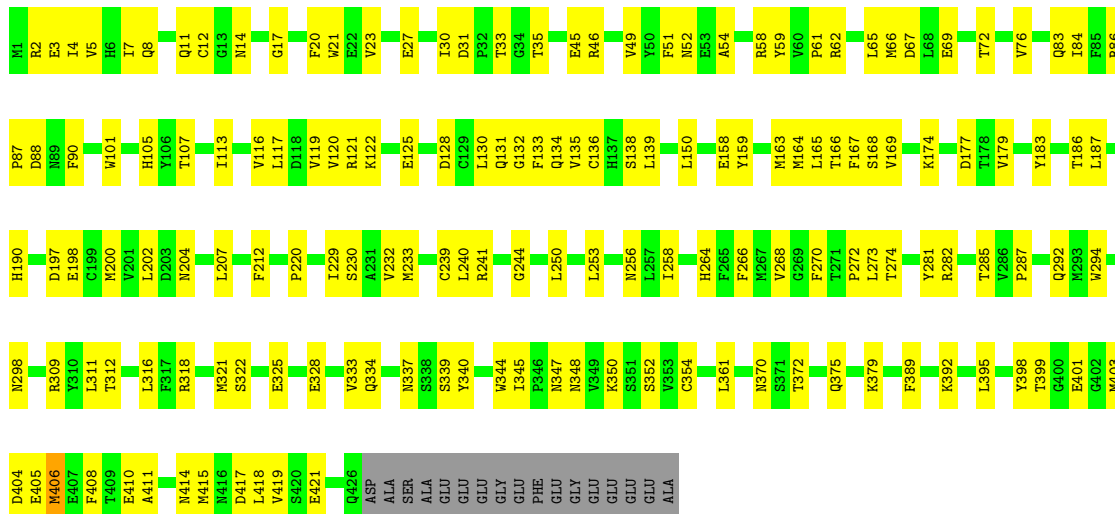




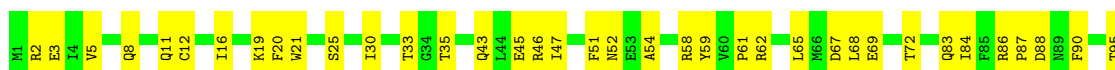
• Molecule 1: Tubulin beta

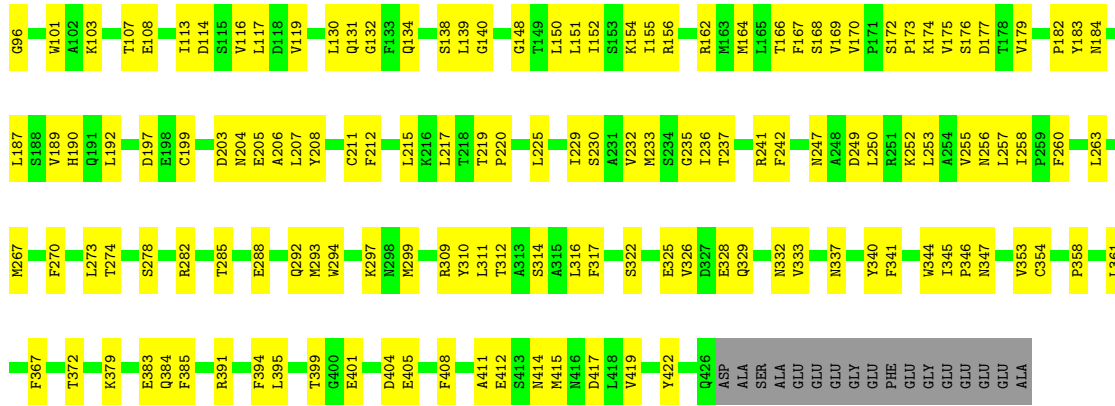


• Molecule 1: Tubulin beta

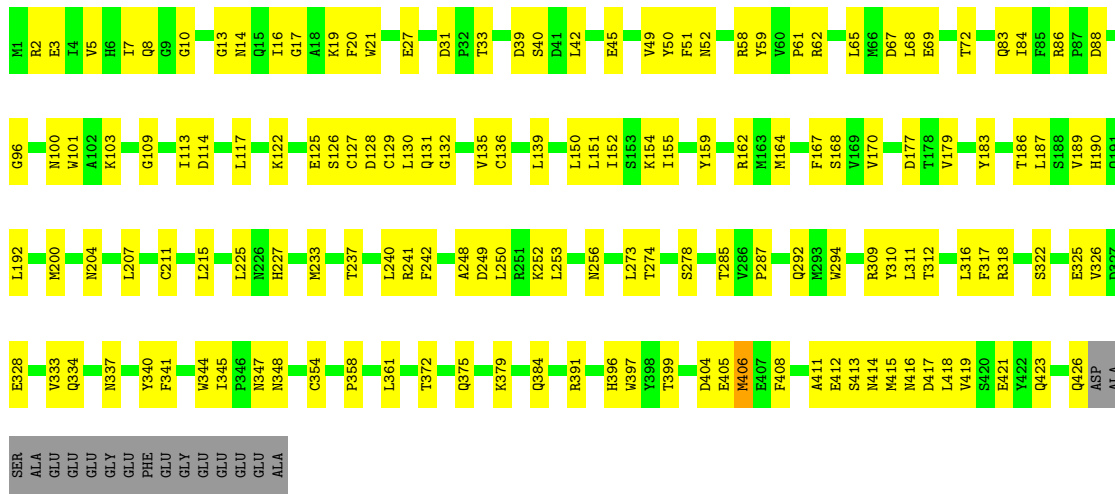


• Molecule 1: Tubulin beta

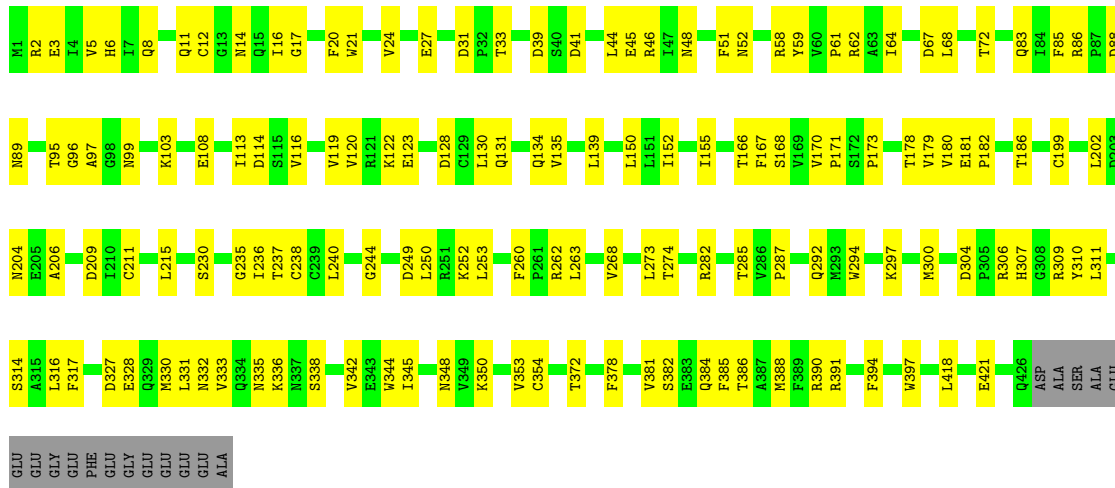




• Molecule 1: Tubulin beta

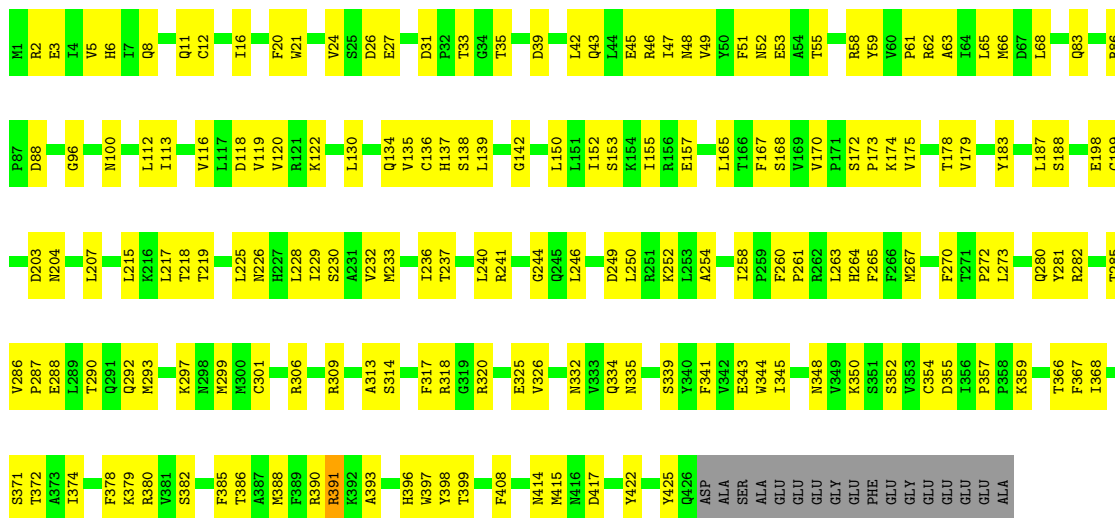


• Molecule 1: Tubulin beta



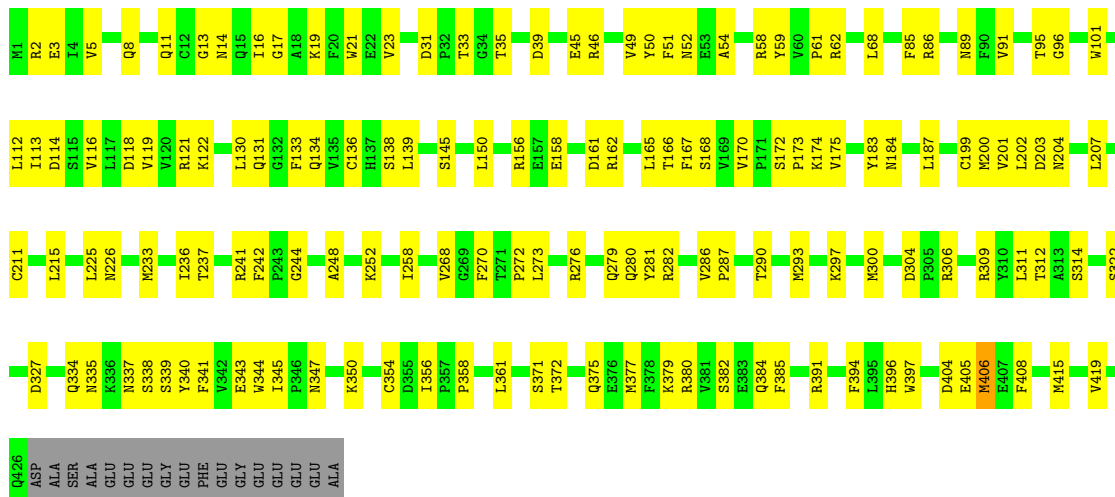
• Molecule 1: Tubulin beta

Chain 0E: 57% 39%



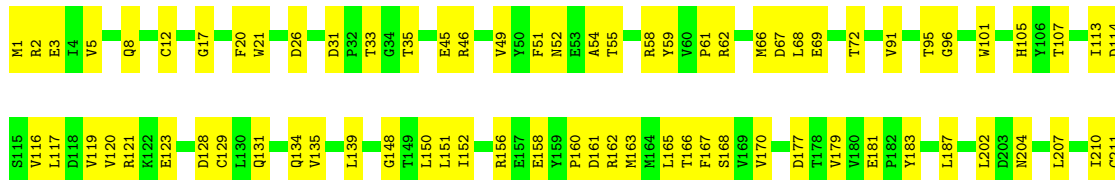
• Molecule 1: Tubulin beta

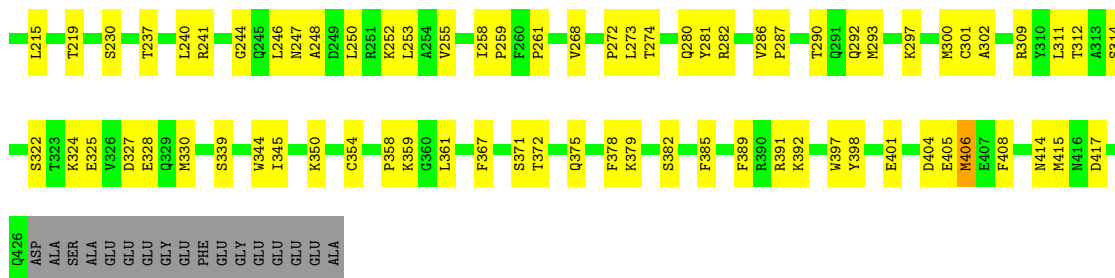
Chain 0G: 63% 33%



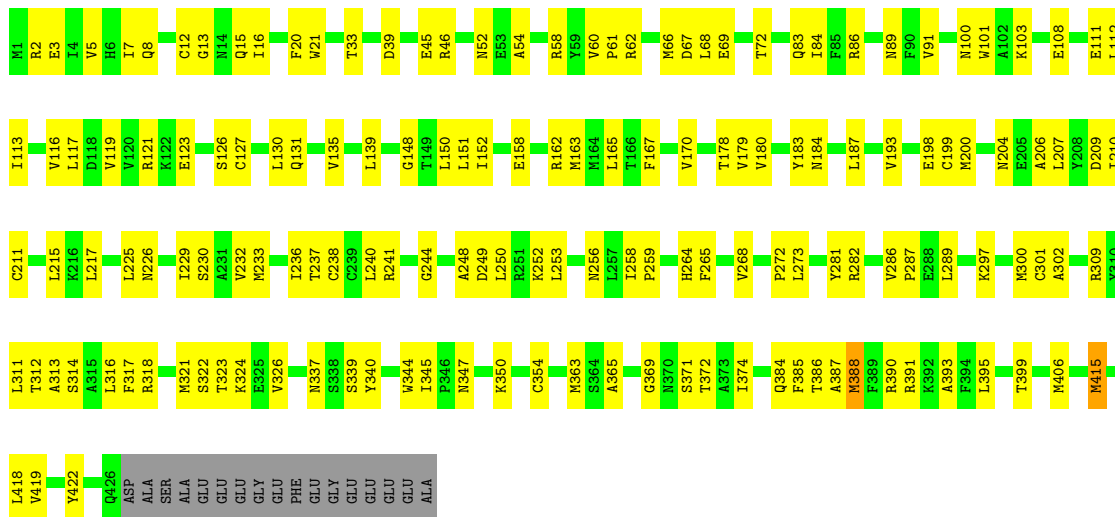
• Molecule 1: Tubulin beta

Chain 0I: 63% 33%

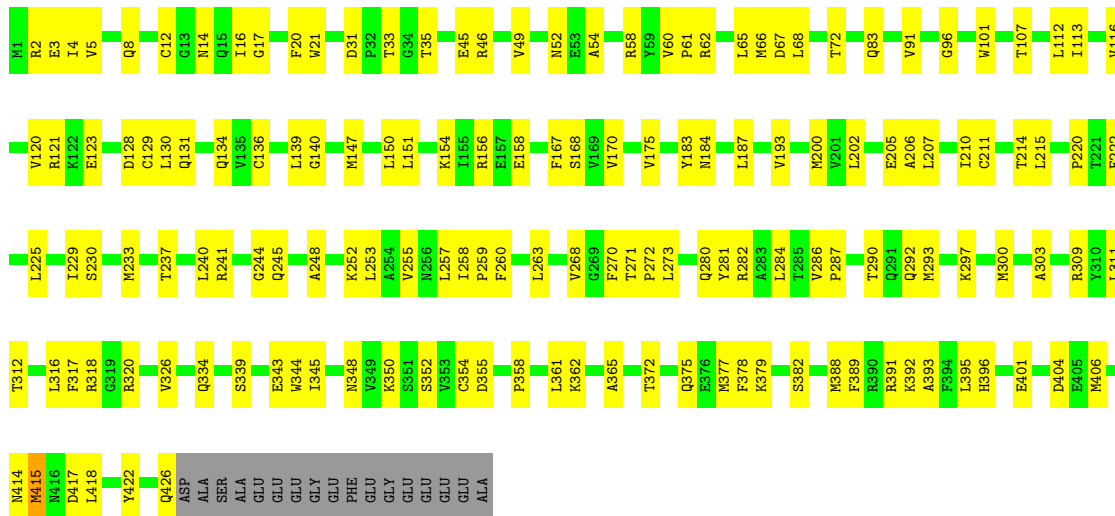
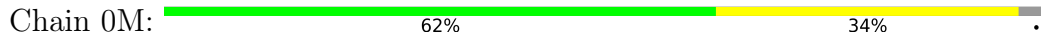




• Molecule 1: Tubulin beta

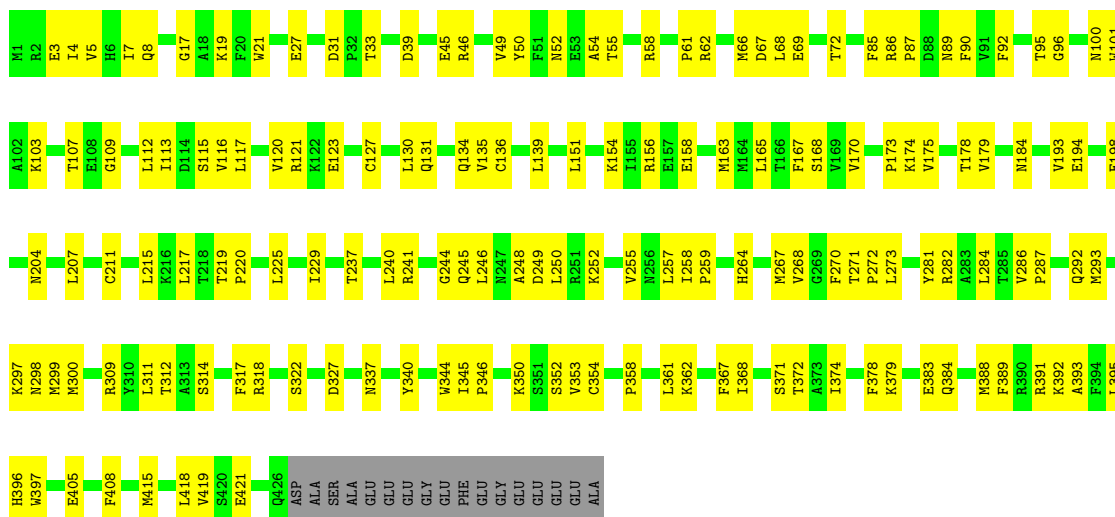


• Molecule 1: Tubulin beta



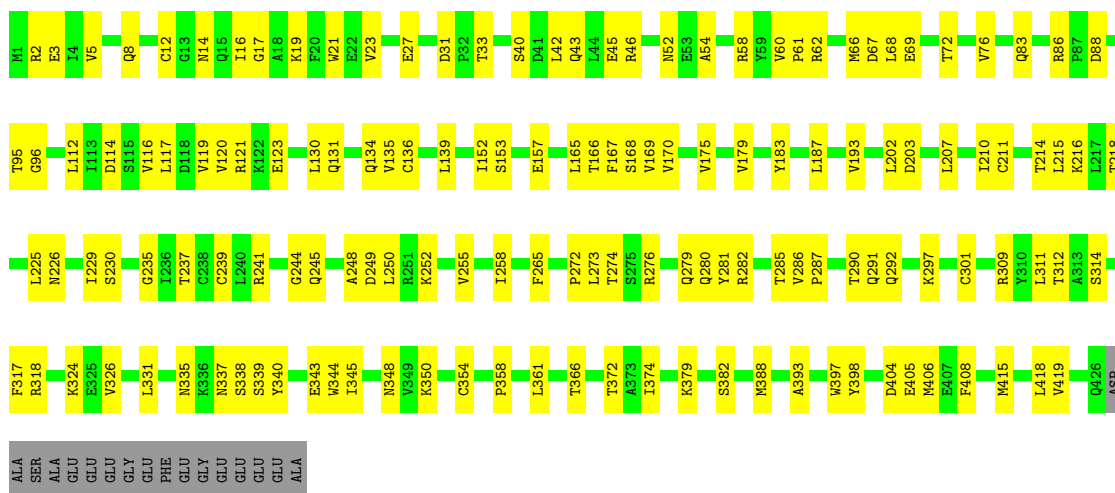
• Molecule 1: Tubulin beta

Chain 0O:  61% 35%



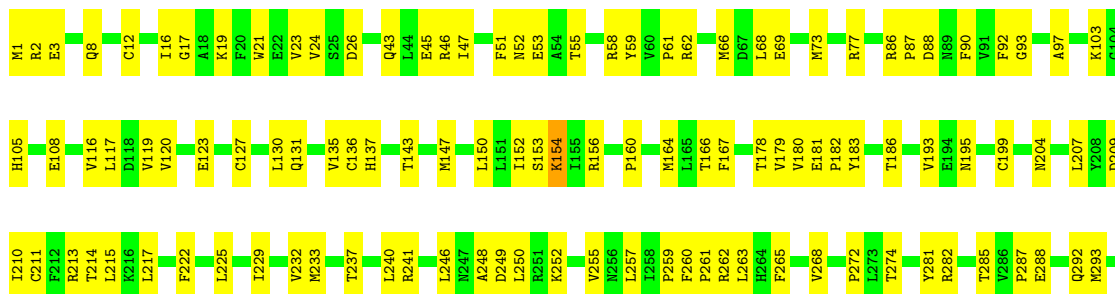
- Molecule 1: Tubulin beta

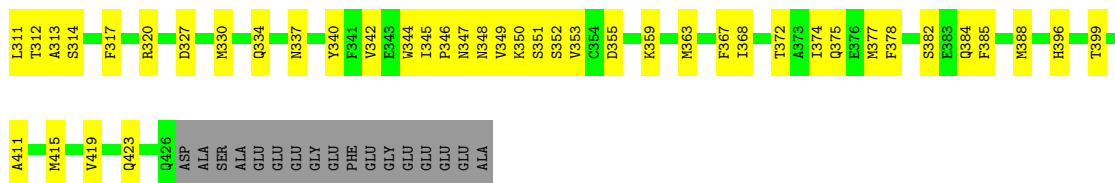
Chain 0Q:  64% 33%



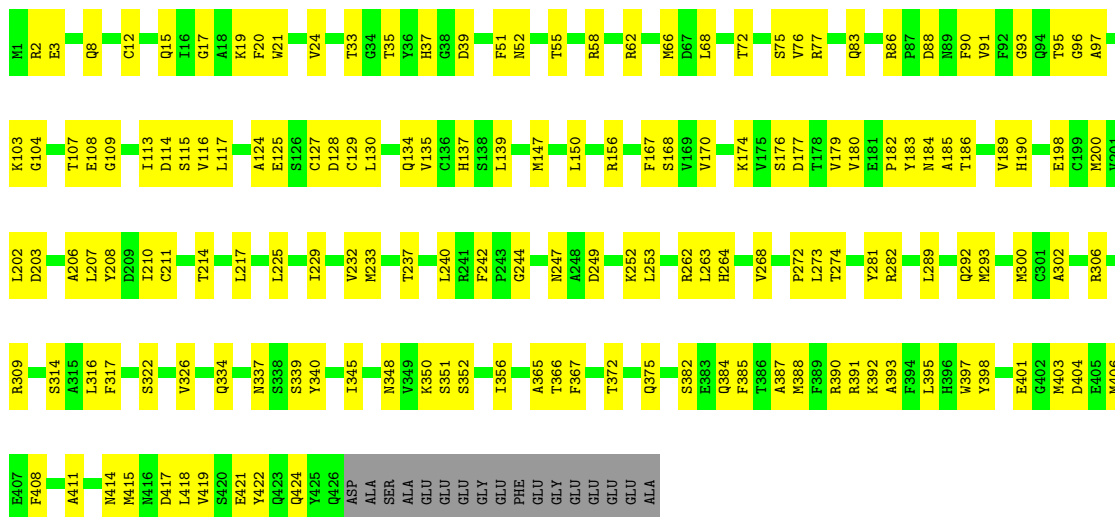
- Molecule 1: Tubulin beta

Chain 0S:  62% 34%

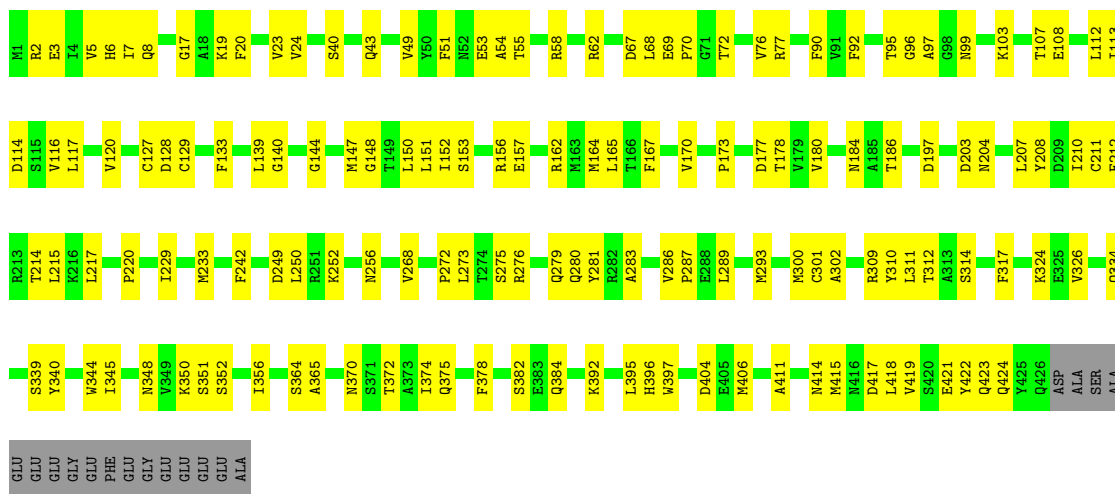




• Molecule 1: Tubulin beta

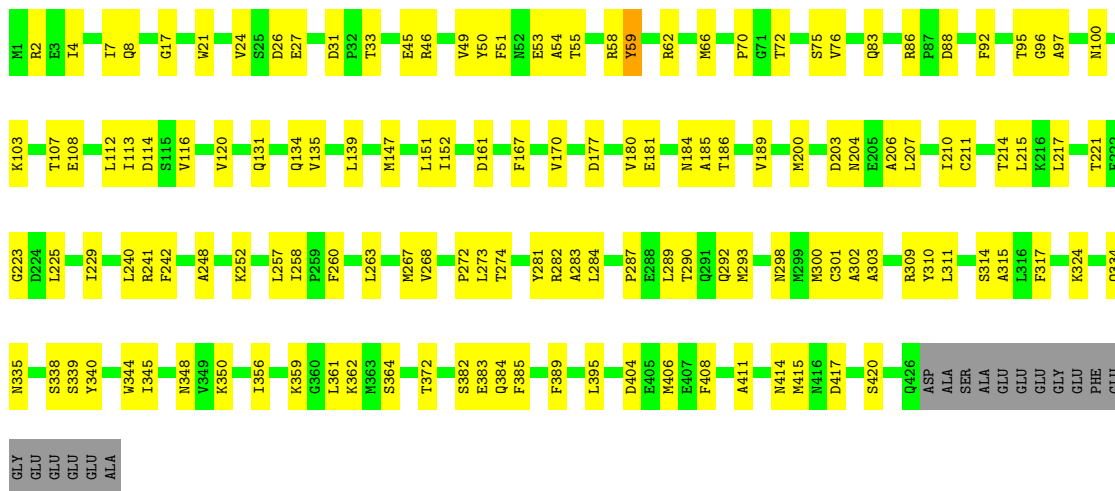


• Molecule 1: Tubulin beta

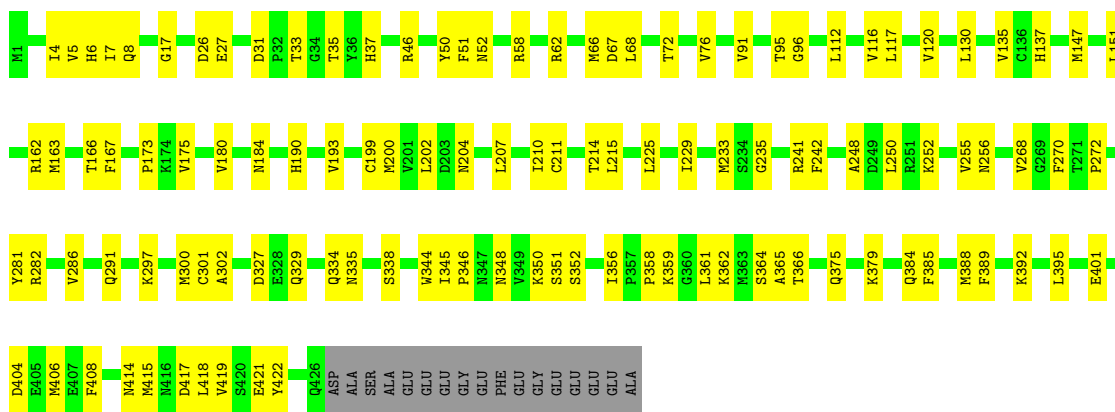


• Molecule 1: Tubulin beta

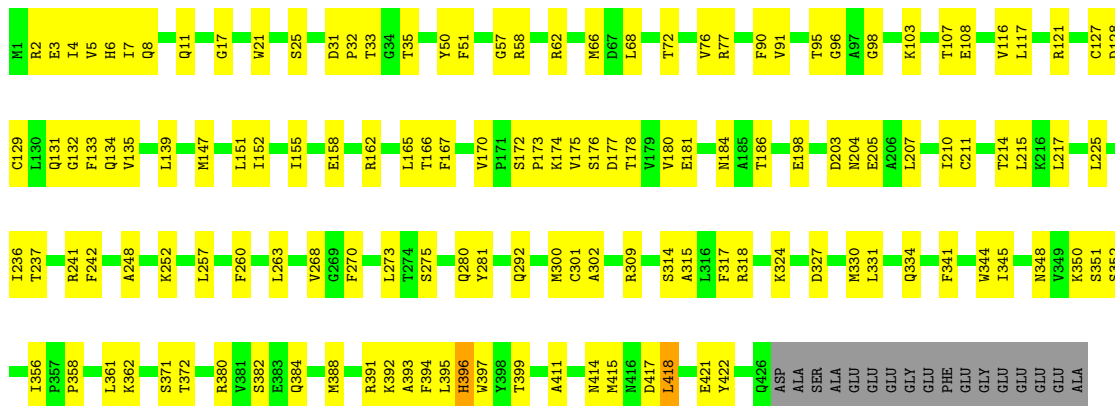




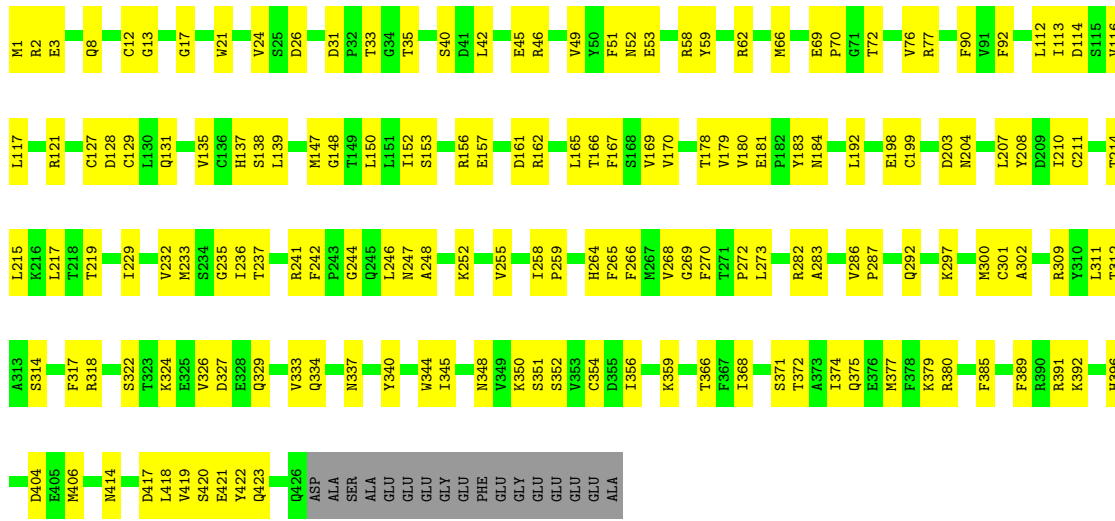
• Molecule 1: Tubulin beta



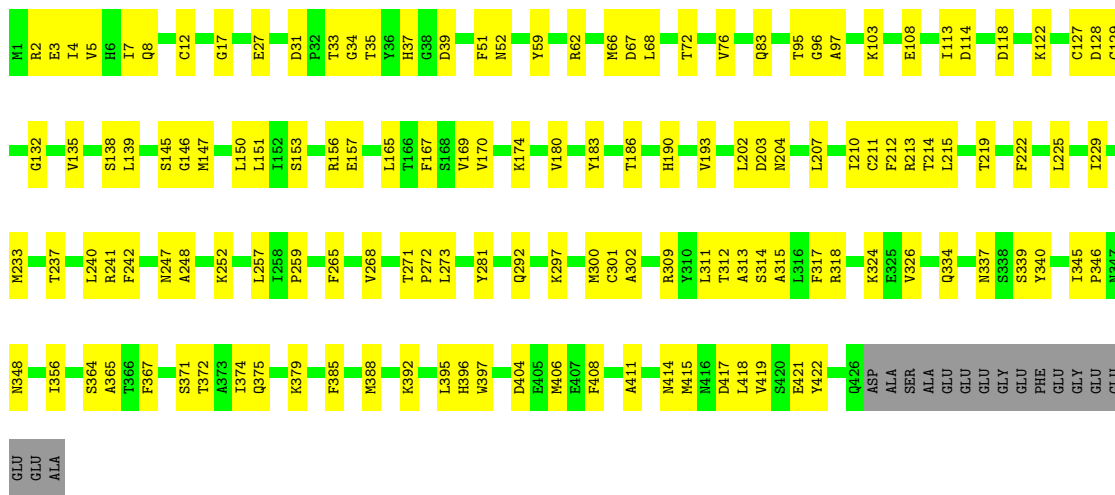
• Molecule 1: Tubulin beta



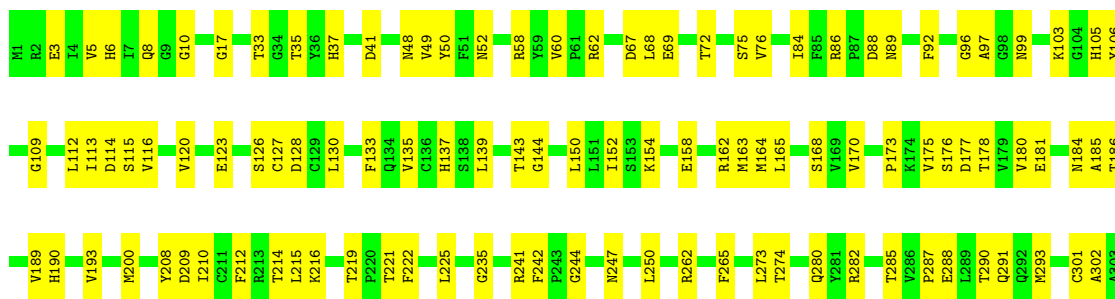
• Molecule 1: Tubulin beta

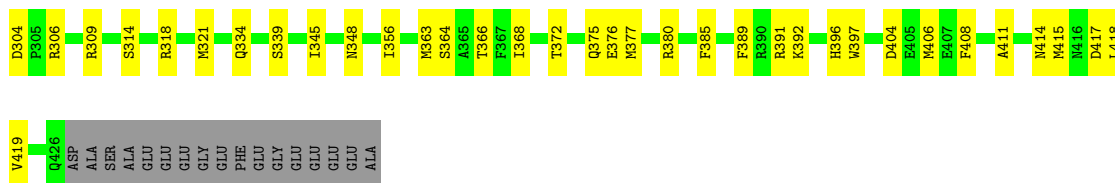


• Molecule 1: Tubulin beta

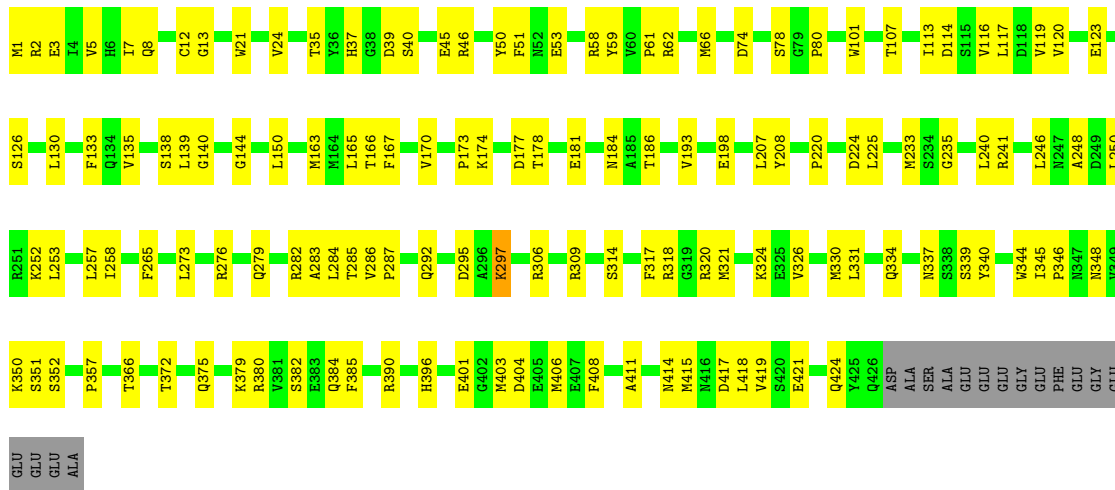


• Molecule 1: Tubulin beta

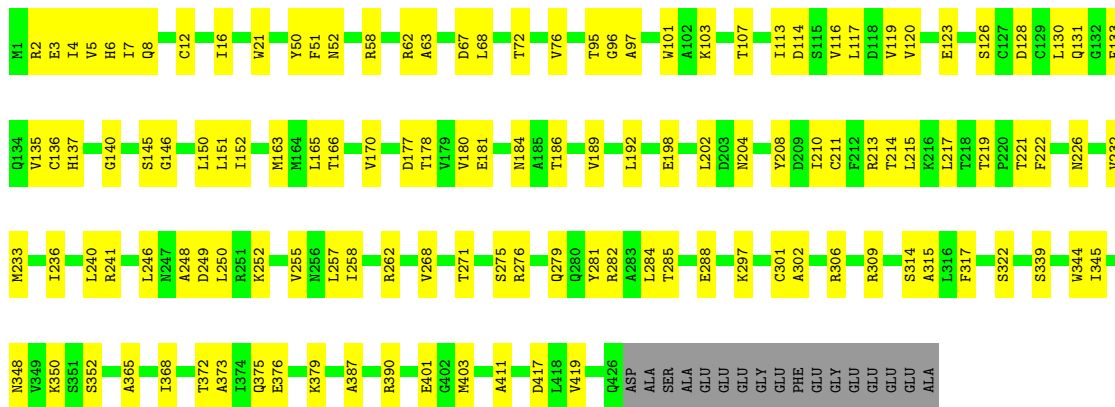




• Molecule 1: Tubulin beta

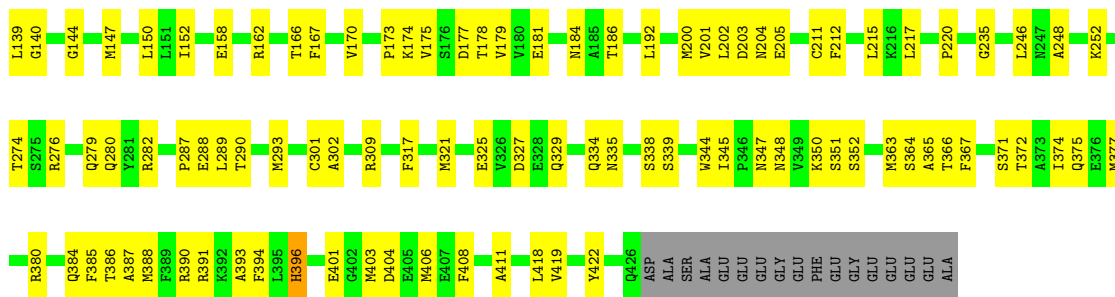


• Molecule 1: Tubulin beta

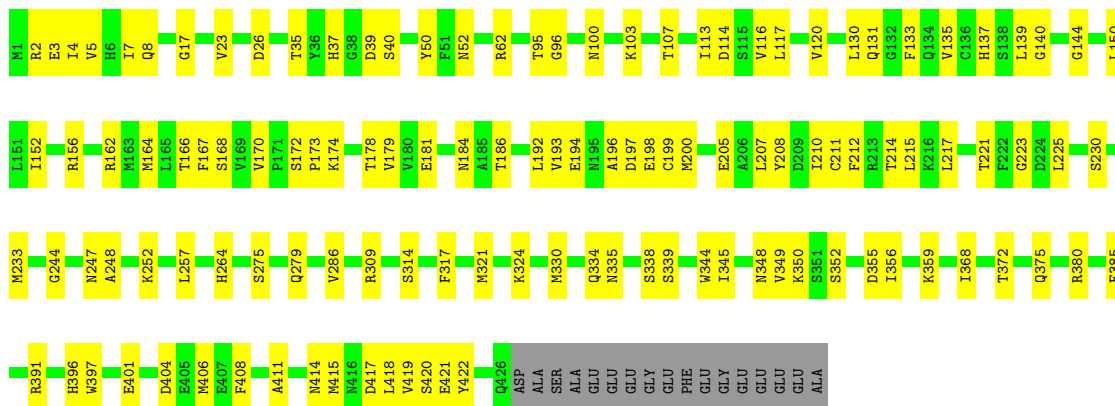


• Molecule 1: Tubulin beta

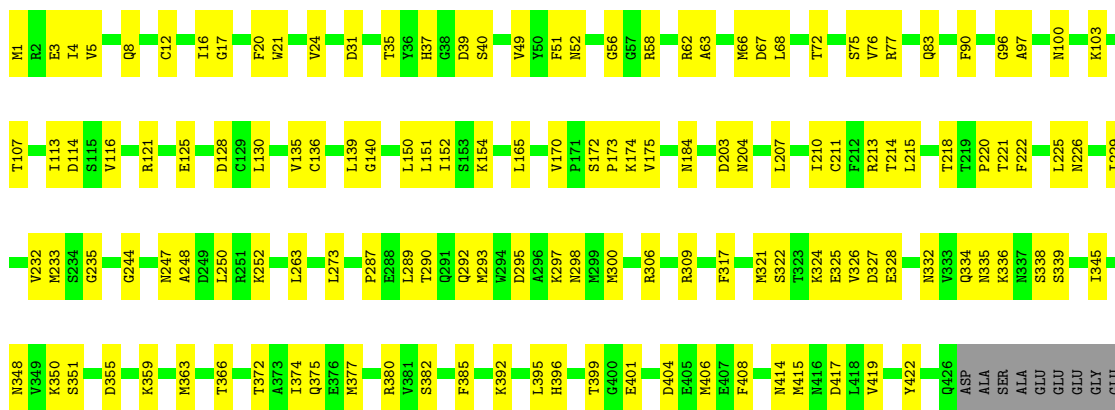




• Molecule 1: Tubulin beta

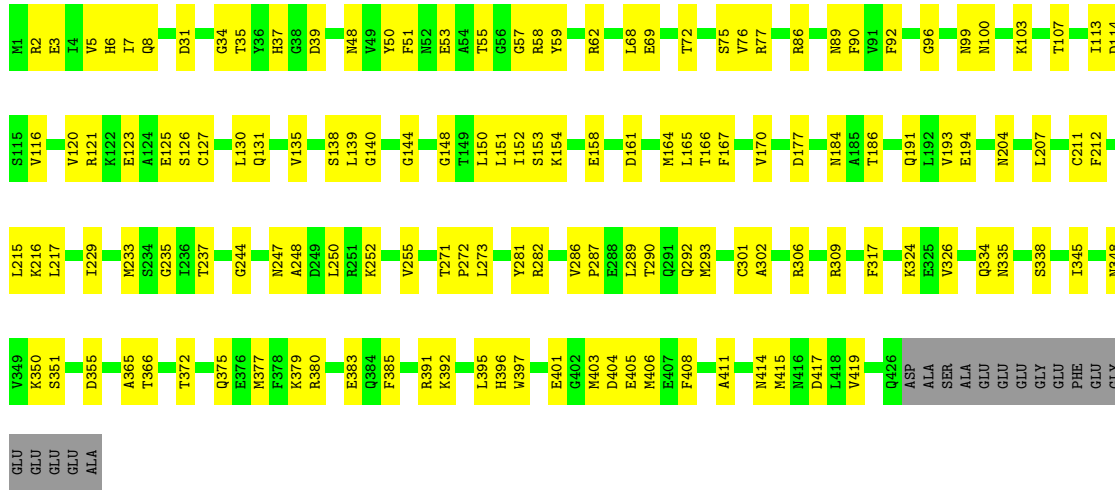


• Molecule 1: Tubulin beta

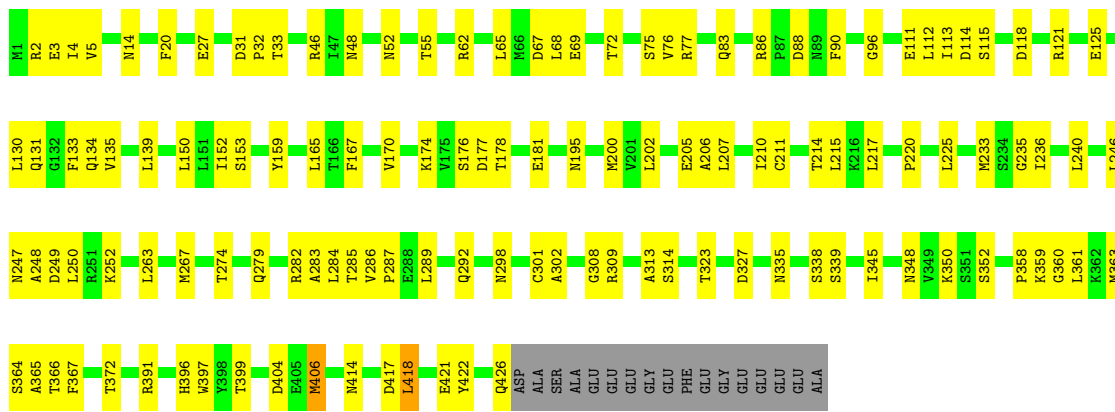


• Molecule 1: Tubulin beta

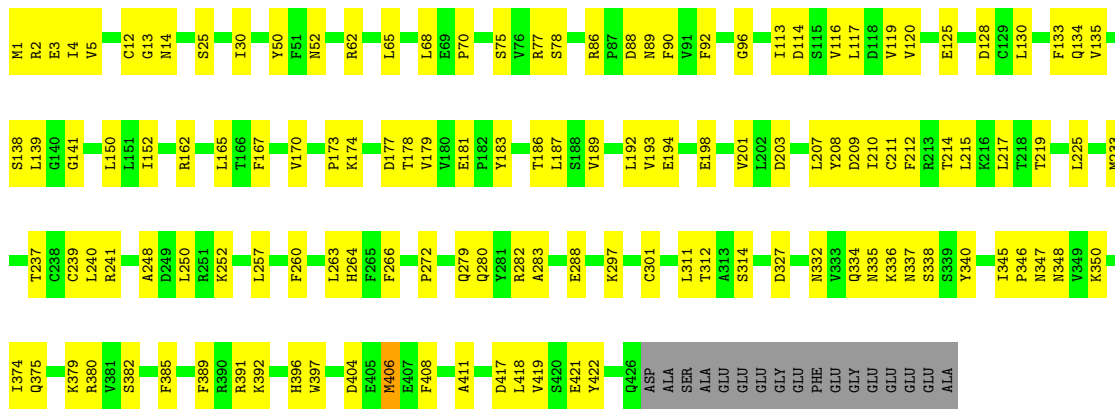




• Molecule 1: Tubulin beta

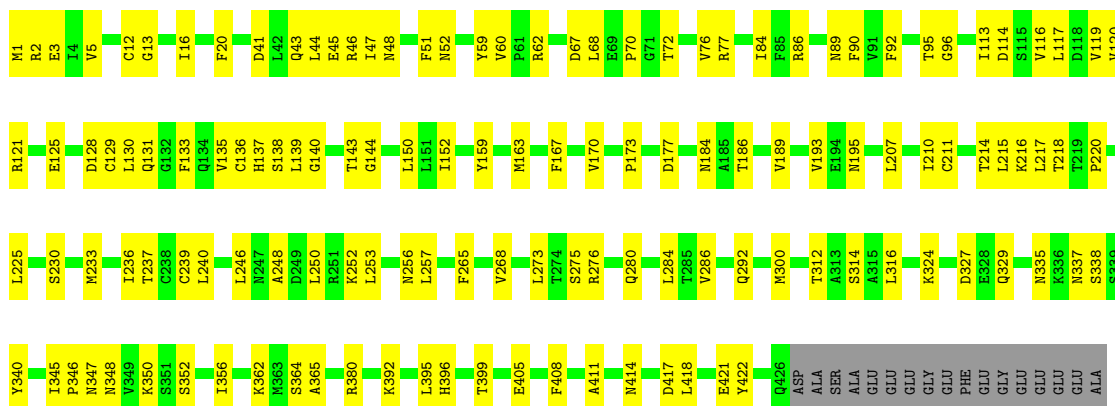


• Molecule 1: Tubulin beta



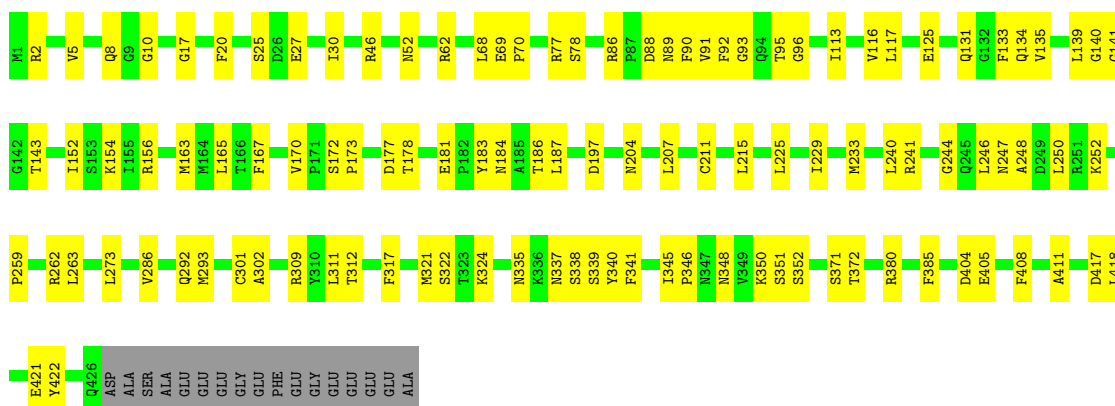
• Molecule 1: Tubulin beta

Chain 2E: 66% 30%



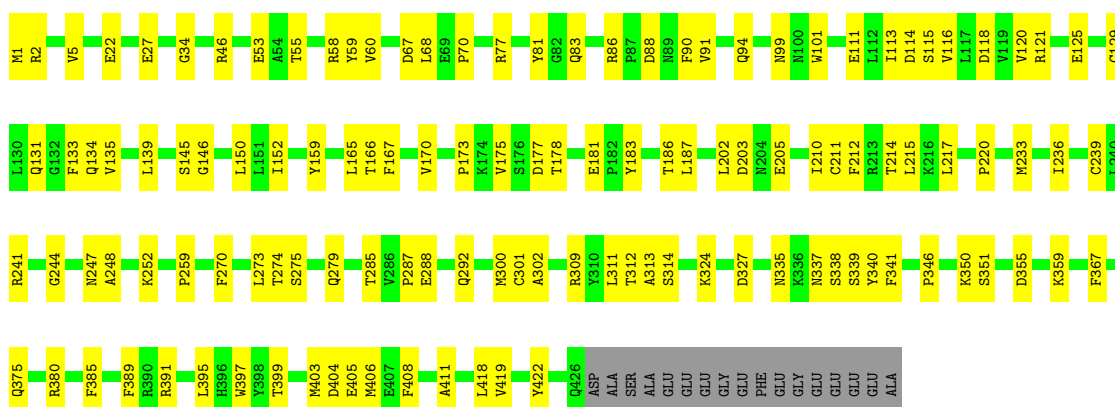
• Molecule 1: Tubulin beta

Chain 2G: 71% 25%



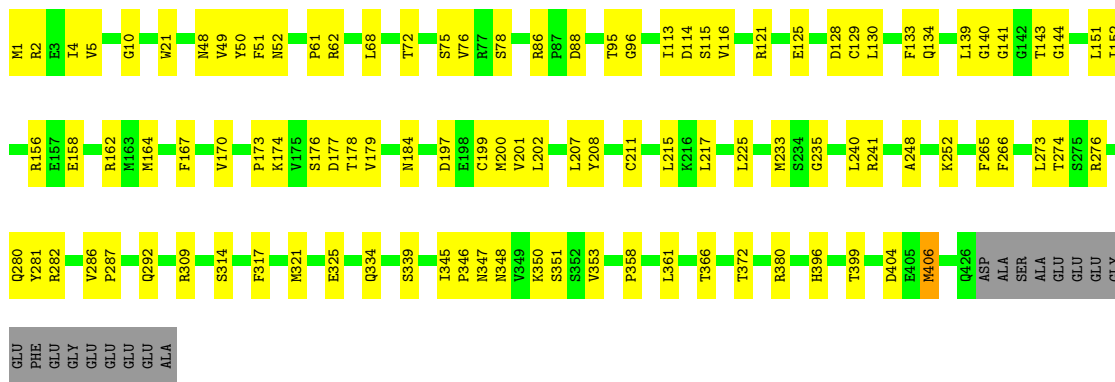
• Molecule 1: Tubulin beta

Chain 2I: 68% 28%

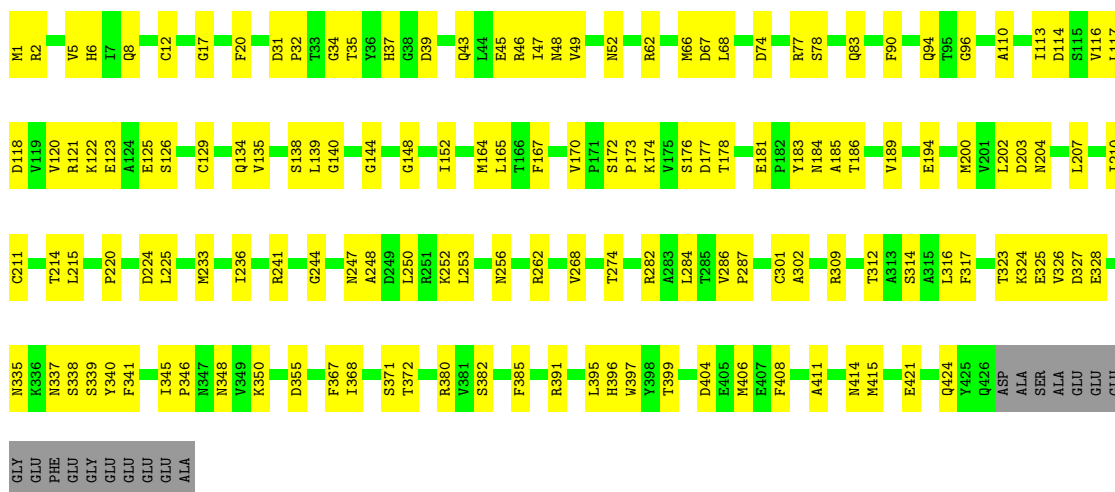


• Molecule 1: Tubulin beta

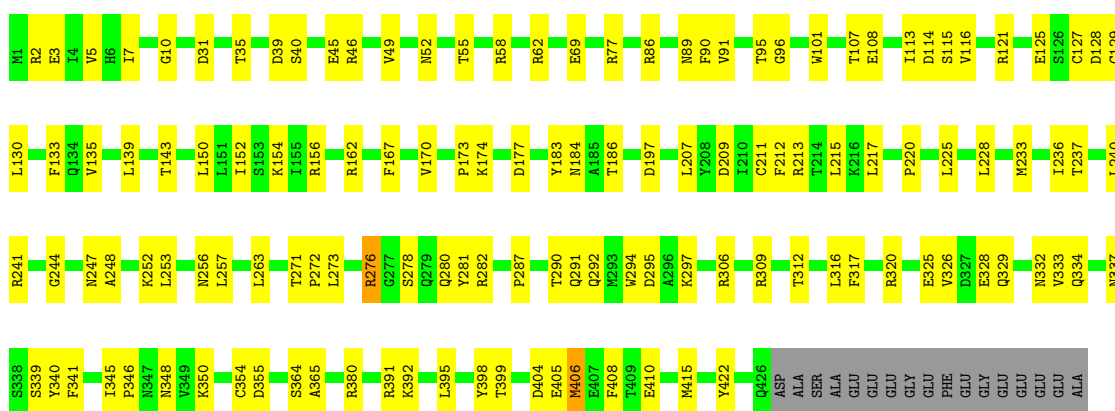
Chain 2K: 73% 23%



• Molecule 1: Tubulin beta

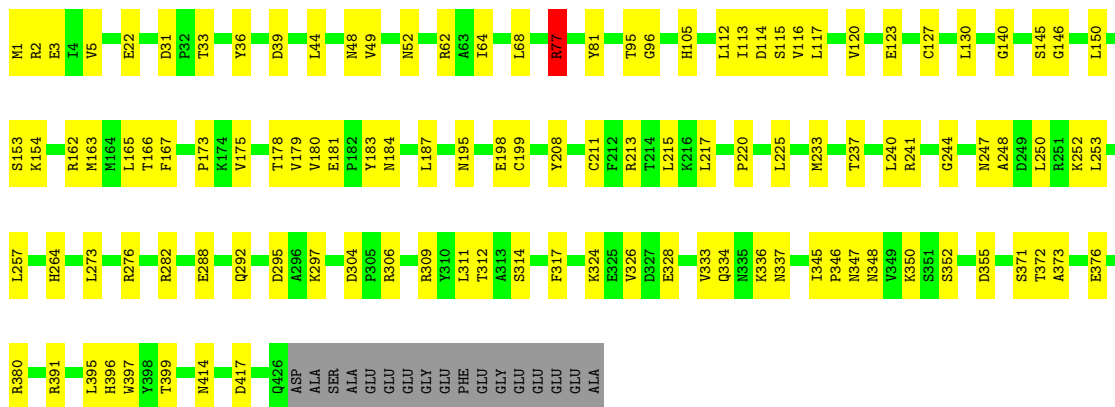


• Molecule 1: Tubulin beta

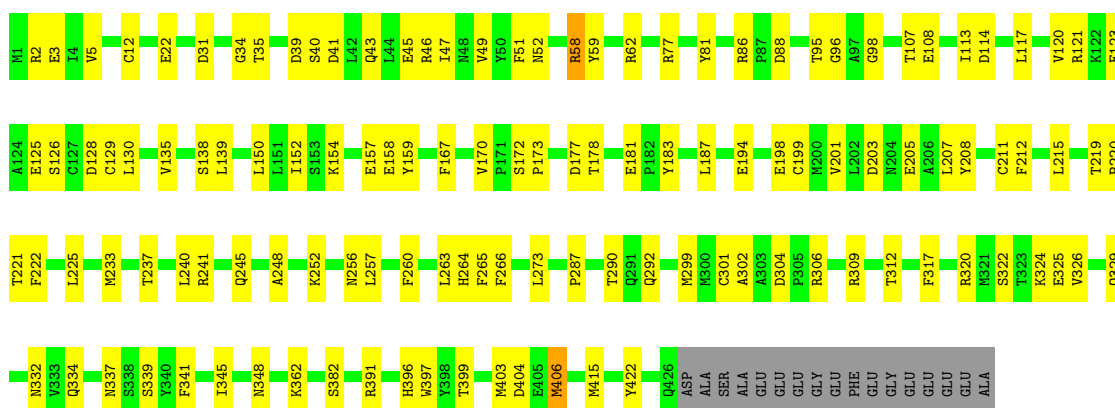


• Molecule 1: Tubulin beta

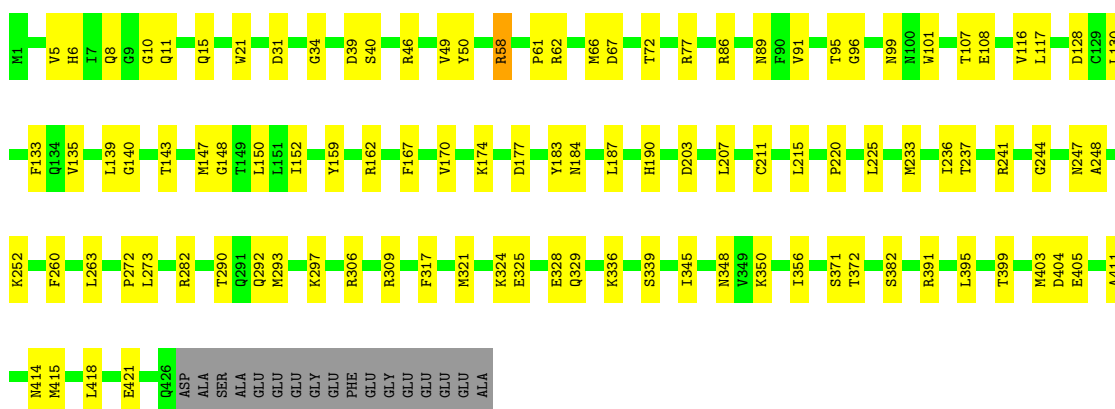
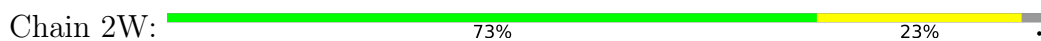




• Molecule 1: Tubulin beta

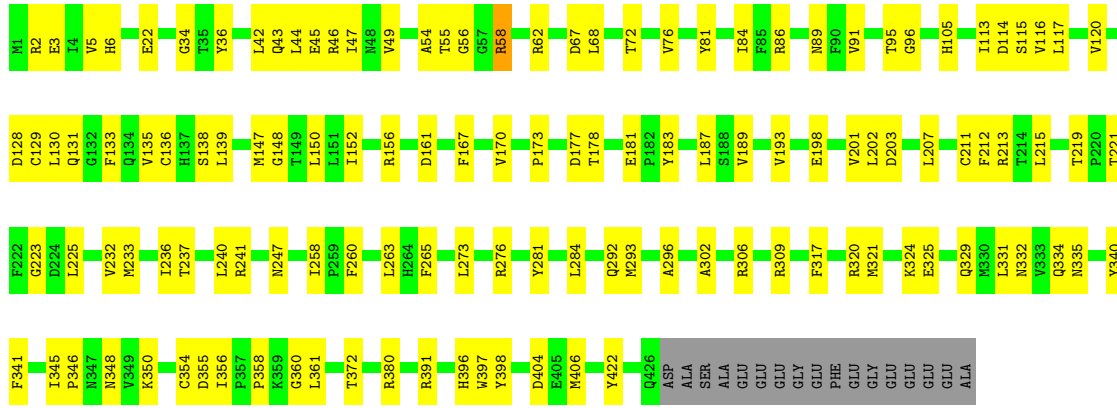


• Molecule 1: Tubulin beta

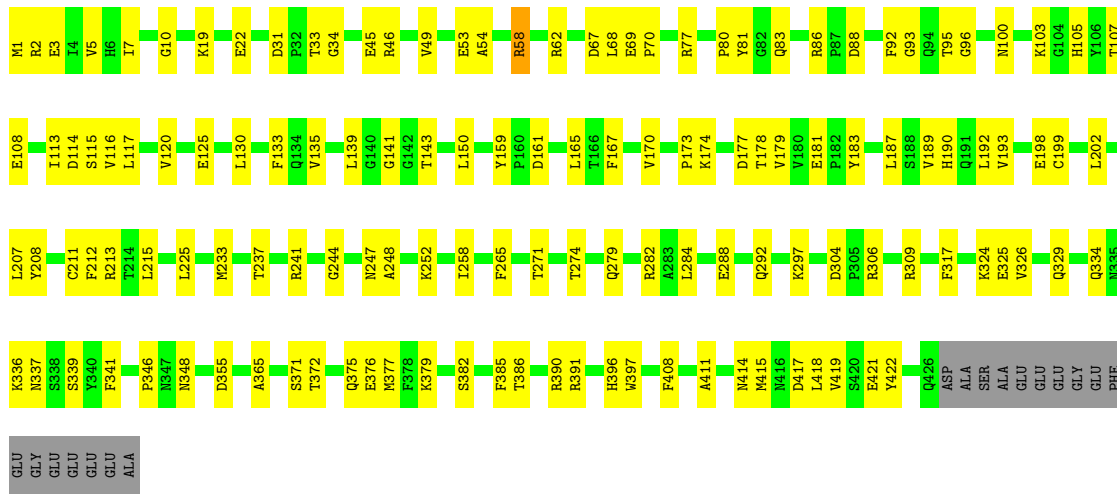


• Molecule 1: Tubulin beta

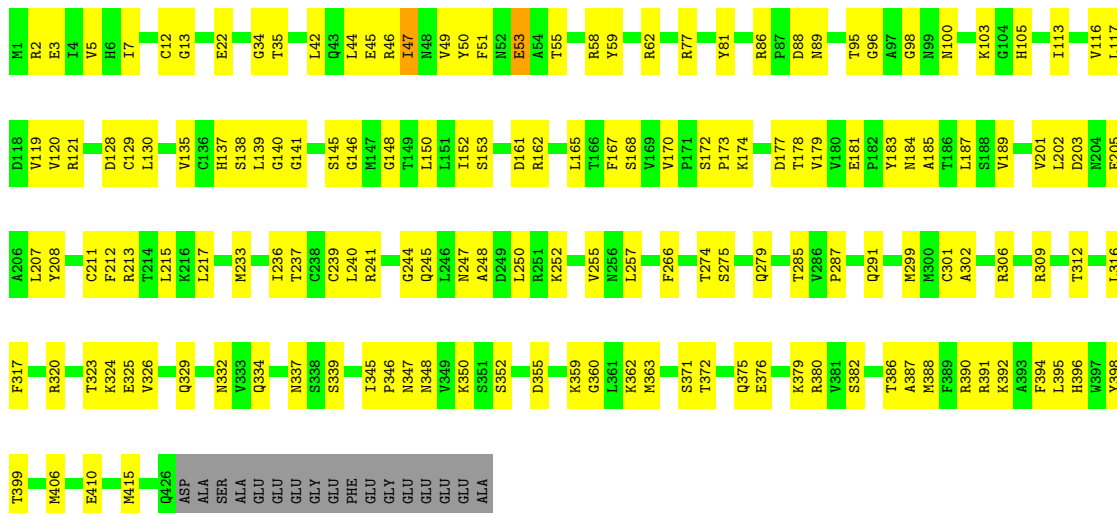




• Molecule 1: Tubulin beta

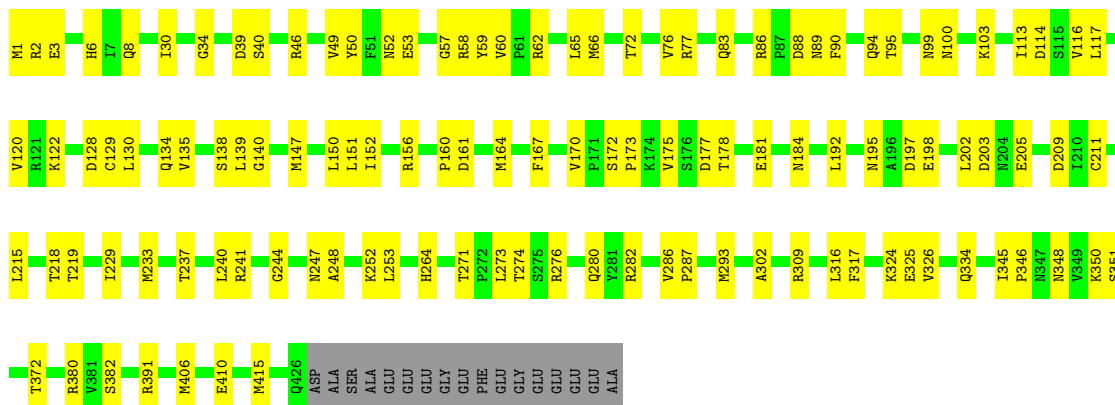


• Molecule 1: Tubulin beta



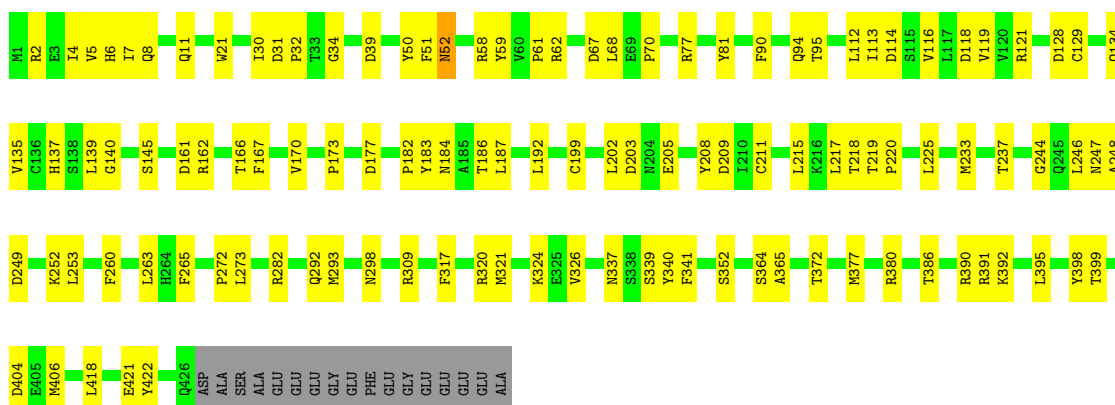
• Molecule 1: Tubulin beta

Chain 3G:  70% 26%



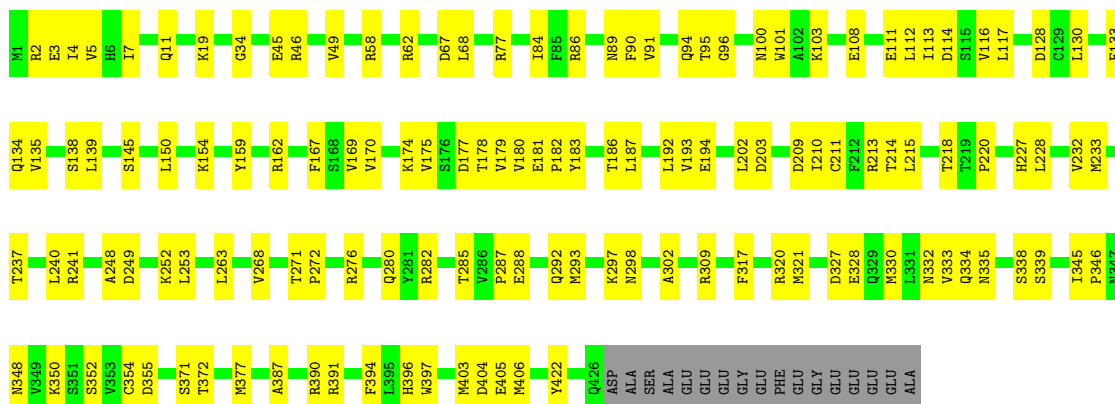
• Molecule 1: Tubulin beta

Chain 3I:  70% 26%



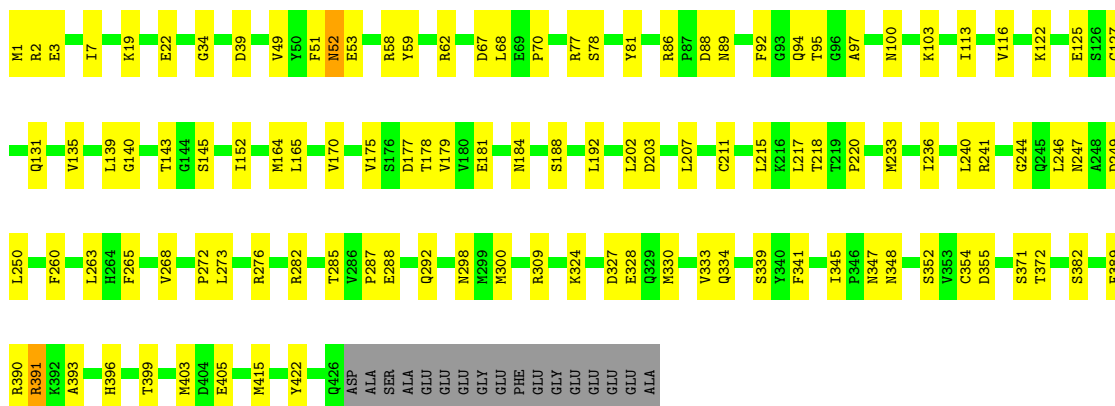
• Molecule 1: Tubulin beta

Chain 3K:  66% 30%



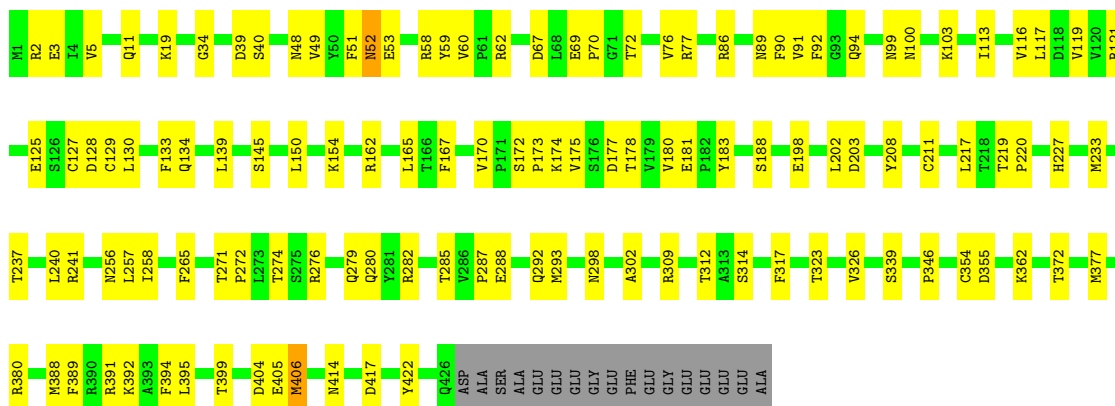
• Molecule 1: Tubulin beta

Chain 3M:  71% 25%



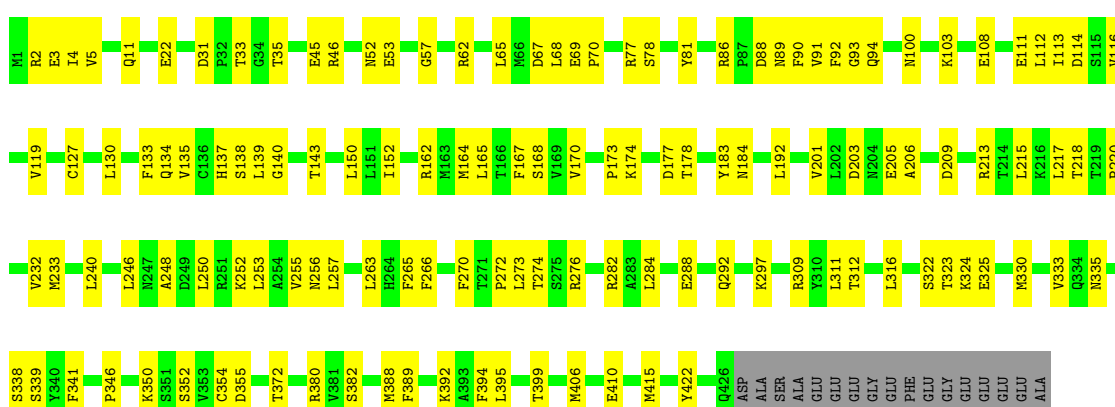
• Molecule 1: Tubulin beta

Chain 3O:  69% 27%



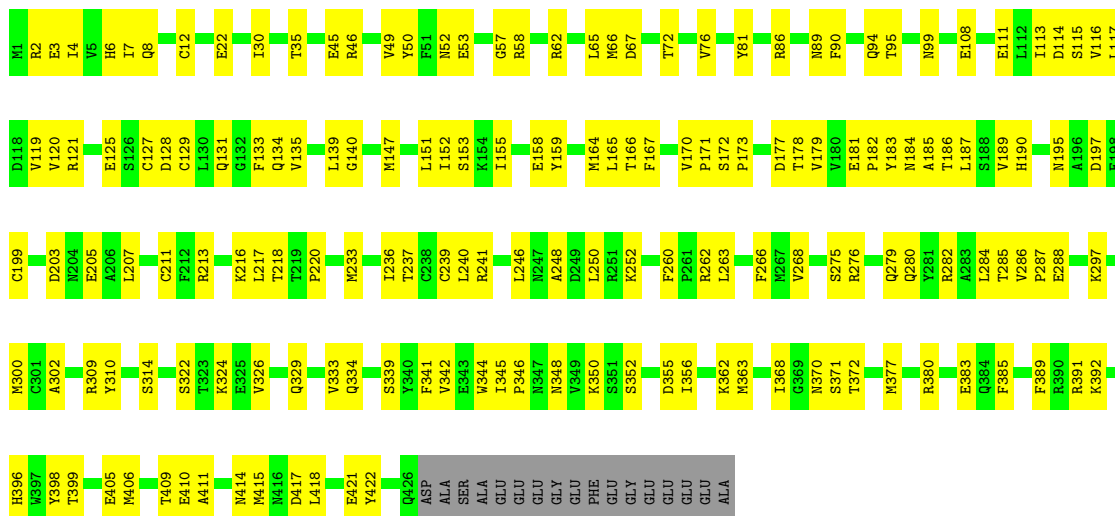
• Molecule 1: Tubulin beta

Chain 3Q:  67% 30%



• Molecule 1: Tubulin beta

Chain 3S:  59% 37%



- Molecule 2: Tubulin alpha

Chain 2: 94%



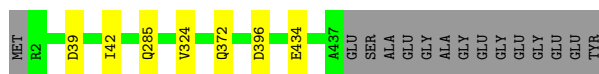
- Molecule 2: Tubulin alpha

Chain 4: 93%



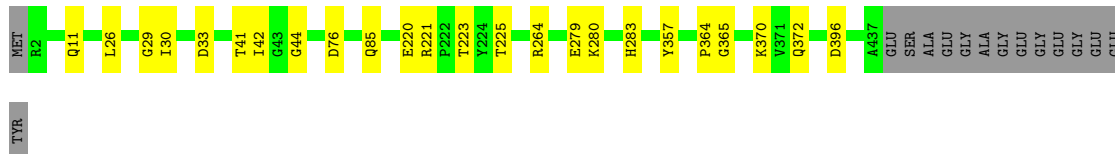
- Molecule 2: Tubulin alpha

Chain 6: 95%



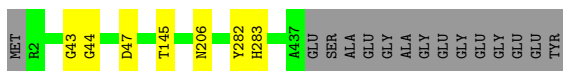
- Molecule 2: Tubulin alpha

Chain 8: 91%



- Molecule 2: Tubulin alpha

Chain A0: 95%



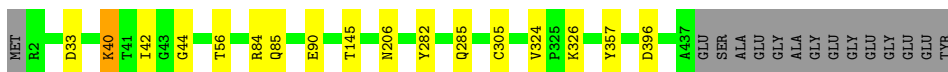
- Molecule 2: Tubulin alpha

Chain A2: 91% 5%



- Molecule 2: Tubulin alpha

Chain A4: 93%



- Molecule 2: Tubulin alpha

Chain A8: 93% 5%



- Molecule 2: Tubulin alpha

Chain B0: 93% 5%



- Molecule 2: Tubulin alpha

Chain B2: 93% 5%



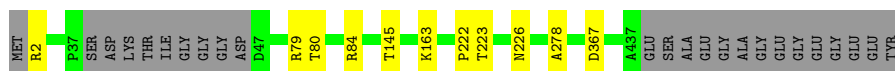
- Molecule 2: Tubulin alpha

Chain B4: 93% 5%



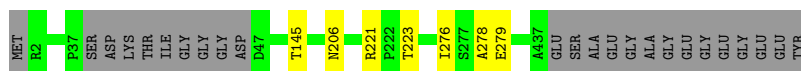
- Molecule 2: Tubulin alpha

Chain B7:  92% • 5%



- Molecule 2: Tubulin alpha

Chain B9:  93% • 5%



- Molecule 2: Tubulin alpha

Chain C1:  93% • 5%



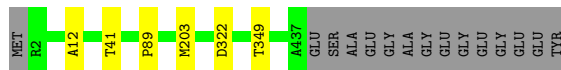
- Molecule 2: Tubulin alpha

Chain C5:  94% • •



- Molecule 2: Tubulin alpha

Chain C7:  95% • •



- Molecule 2: Tubulin alpha

Chain C9:  93% • 5%



- Molecule 2: Tubulin alpha

Chain D1:  93% • 5%



- Molecule 2: Tubulin alpha

Chain D3:  94% • 5%



• Molecule 2: Tubulin alpha

Chain D5:  93% • 5%



• Molecule 2: Tubulin alpha

Chain D7:  94% • 5%



• Molecule 2: Tubulin alpha

Chain E1:  93% • 5%



• Molecule 2: Tubulin alpha

Chain E3:  93% • 5%



• Molecule 2: Tubulin alpha

Chain E5:  92% • 5%



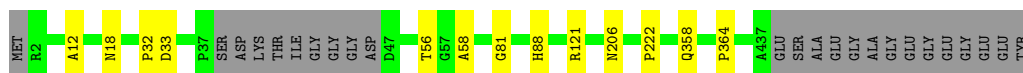
• Molecule 2: Tubulin alpha

Chain E7:  92% • 5%



• Molecule 2: Tubulin alpha

Chain E9:  92% • 5%



• Molecule 2: Tubulin alpha

Chain F1:  92% • 5%



• Molecule 2: Tubulin alpha

Chain F3:  92% • 5%



• Molecule 2: Tubulin alpha

Chain F5:  92% • 5%



• Molecule 2: Tubulin alpha

Chain F7:  92% • 5%




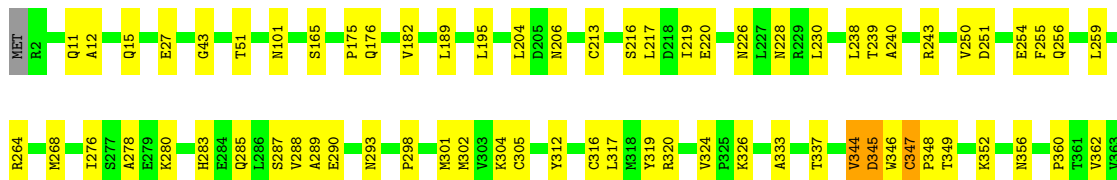
• Molecule 2: Tubulin alpha

Chain F9:  94% ••



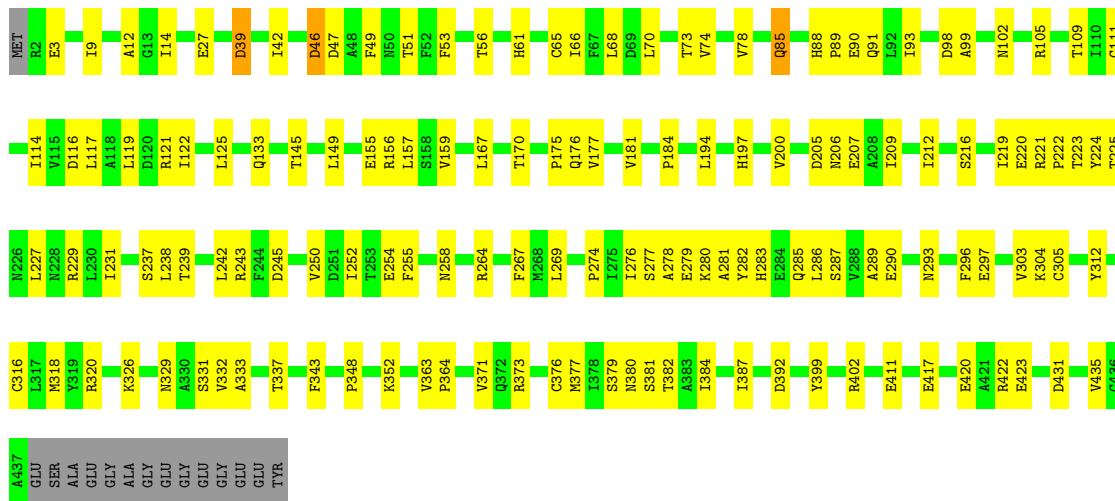
• Molecule 2: Tubulin alpha

Chain G1:  76% 20% ••

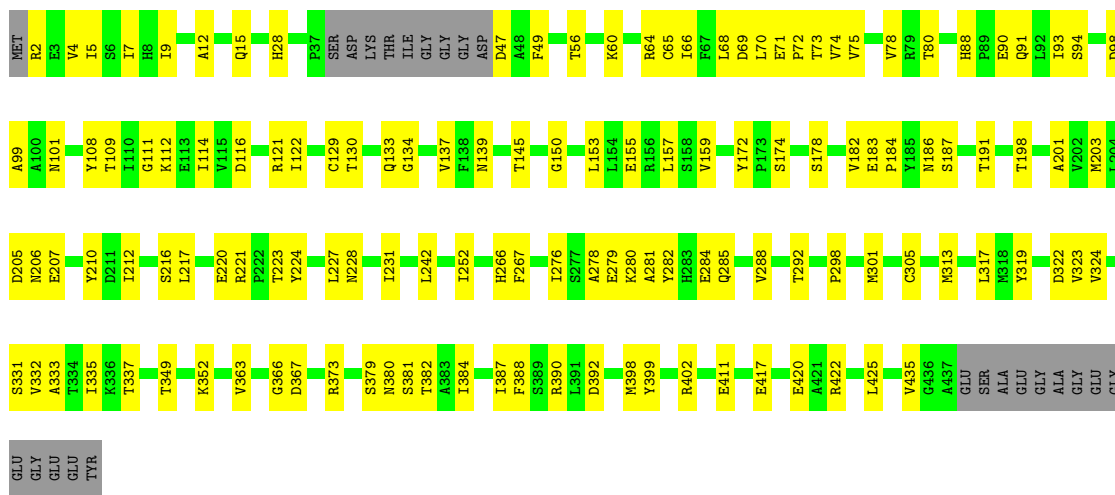




• Molecule 2: Tubulin alpha

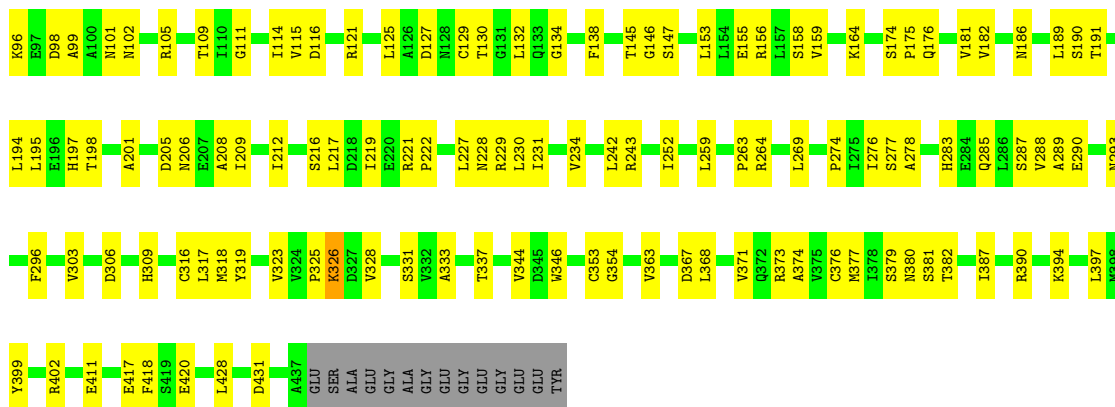


• Molecule 2: Tubulin alpha

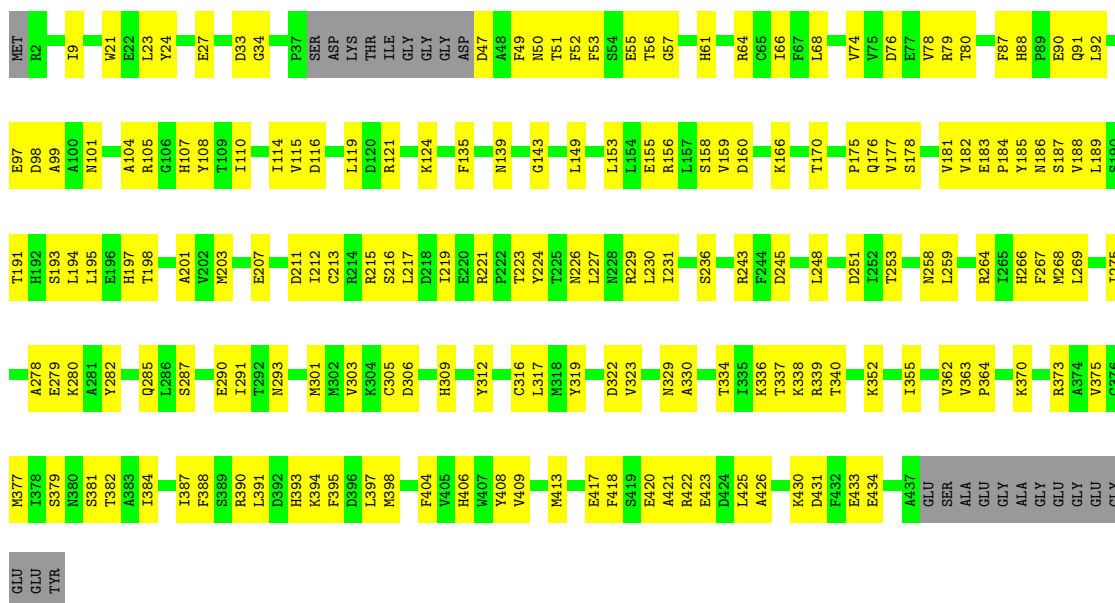


• Molecule 2: Tubulin alpha

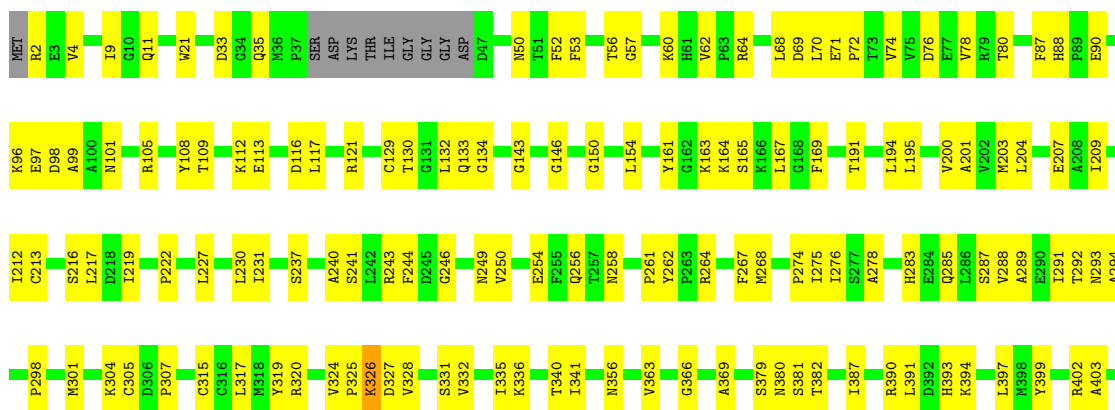


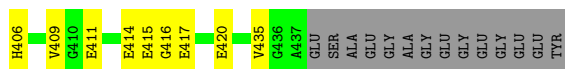


• Molecule 2: Tubulin alpha

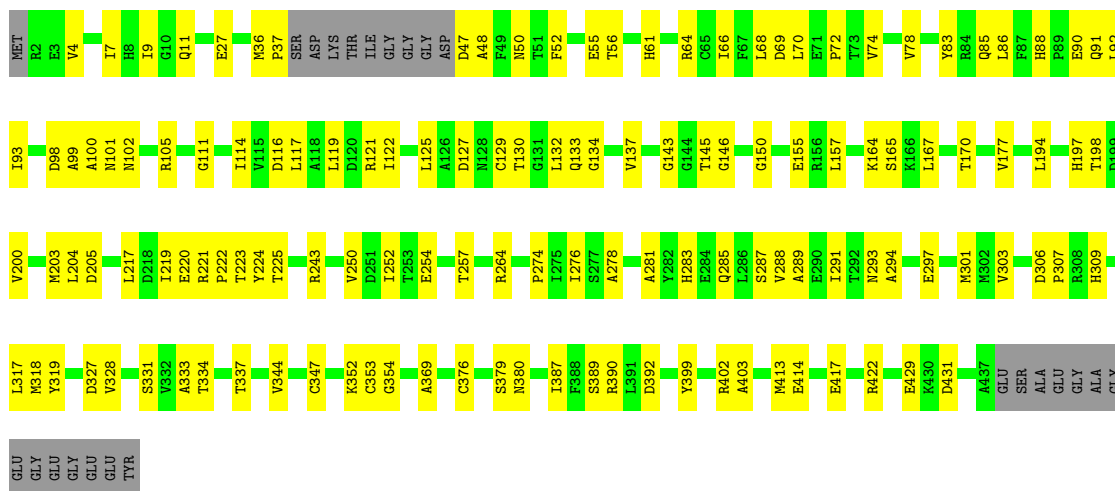


• Molecule 2: Tubulin alpha

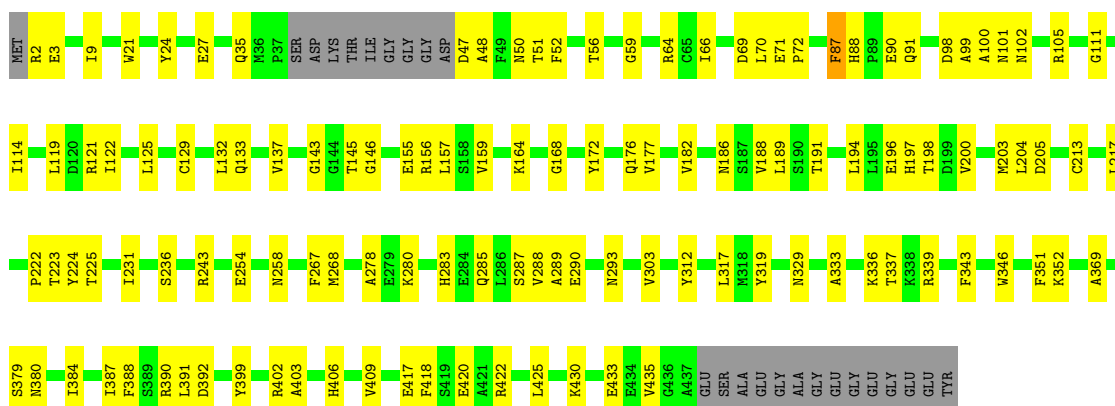
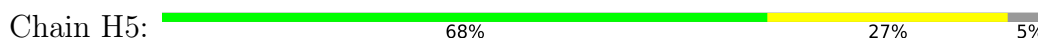




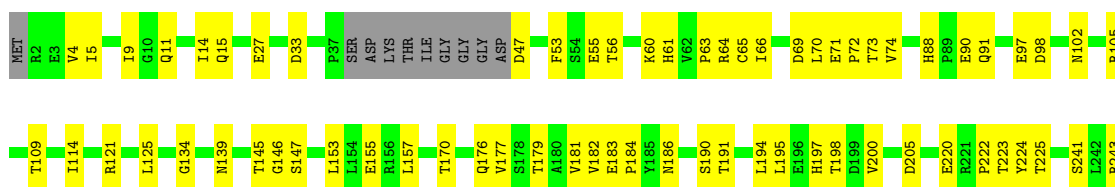
• Molecule 2: Tubulin alpha

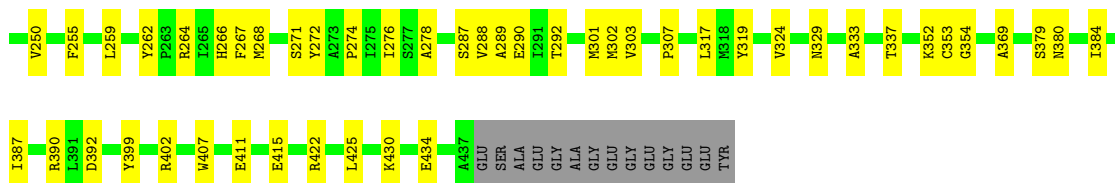


• Molecule 2: Tubulin alpha

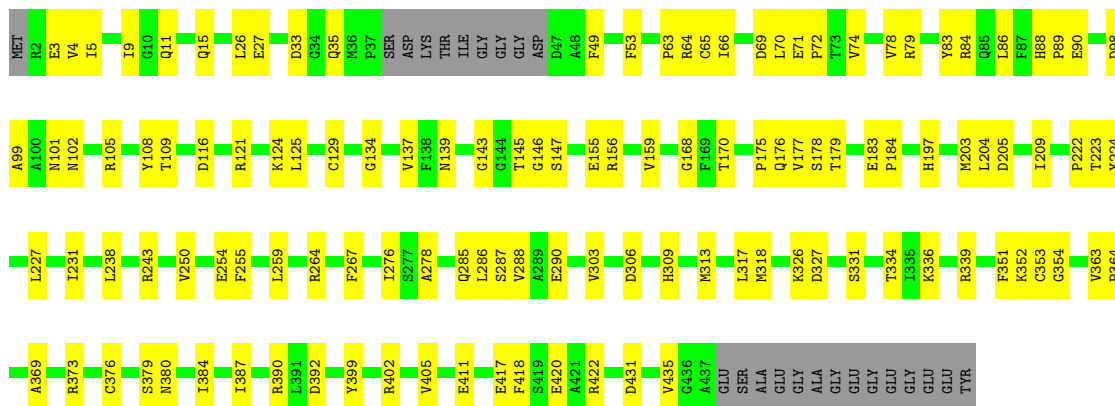


• Molecule 2: Tubulin alpha

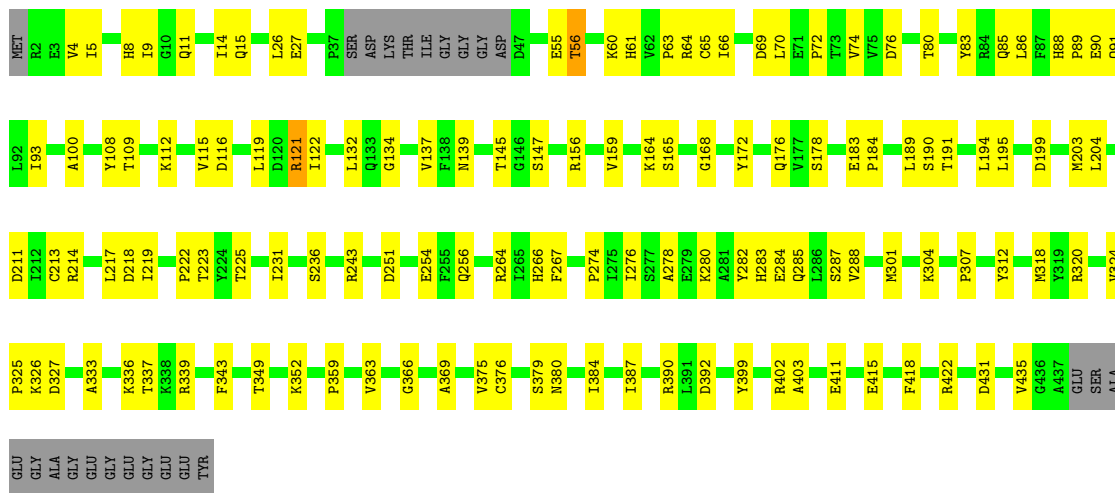




• Molecule 2: Tubulin alpha



• Molecule 2: Tubulin alpha

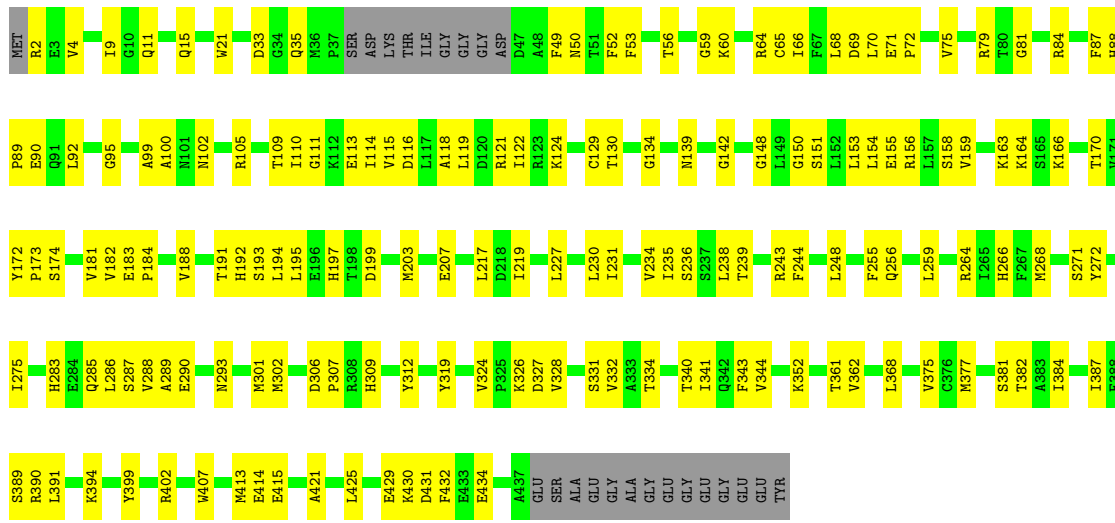


• Molecule 2: Tubulin alpha

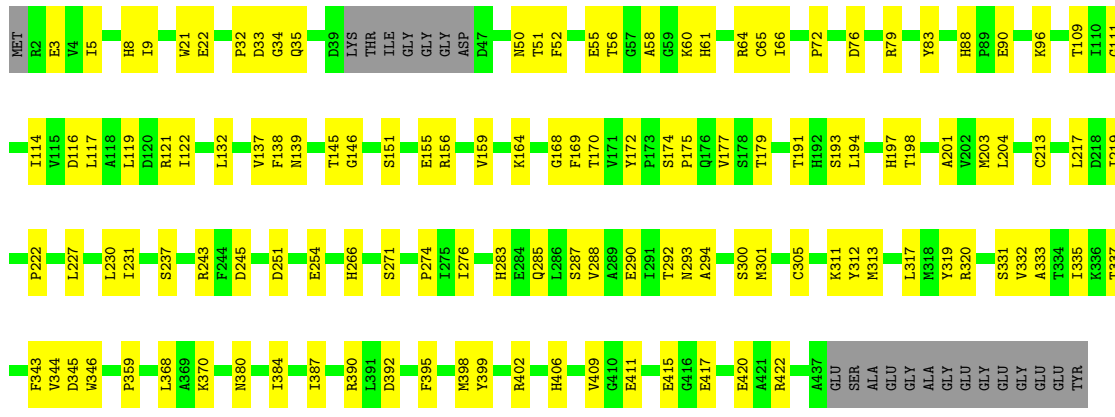




• Molecule 2: Tubulin alpha

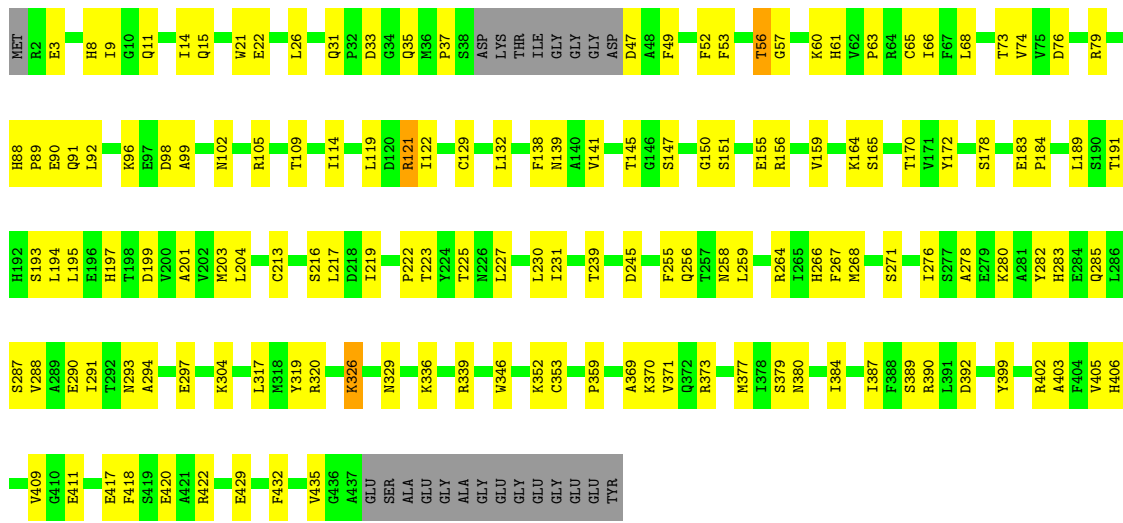


• Molecule 2: Tubulin alpha



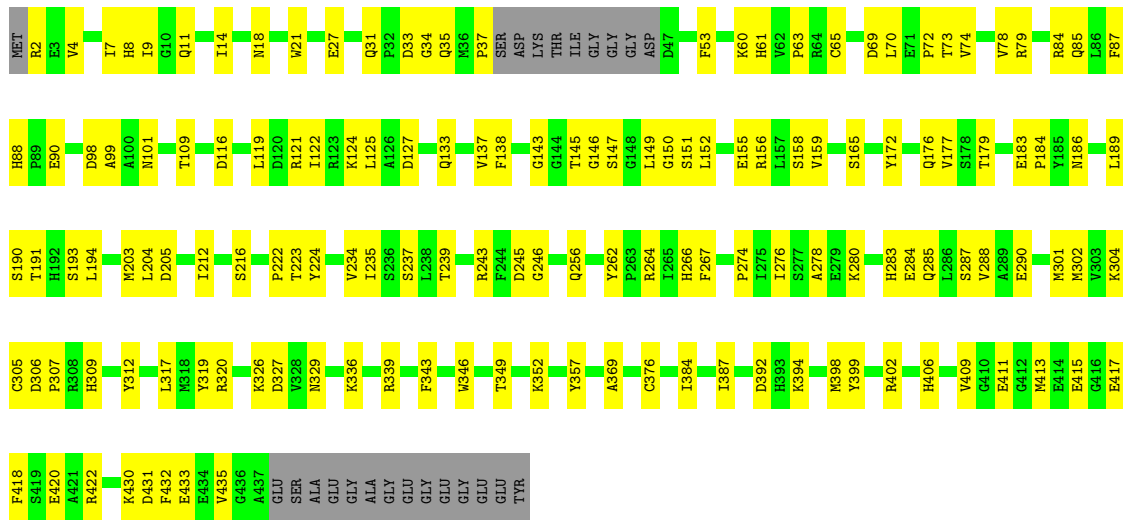
• Molecule 2: Tubulin alpha

Chain I9: 63% 31% 5%



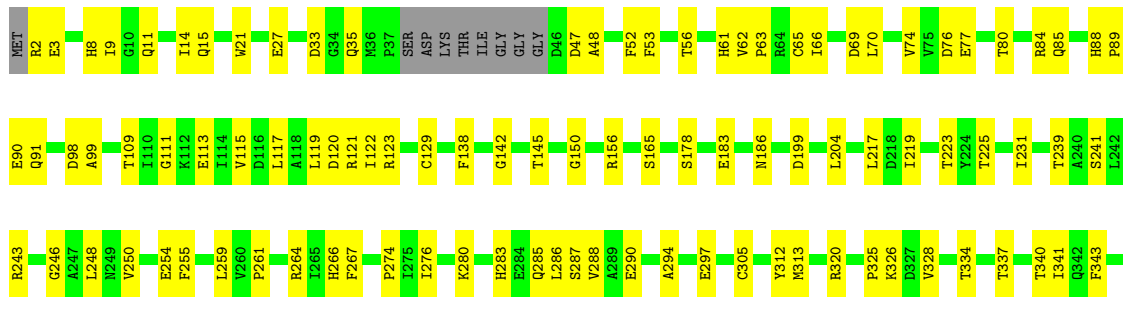
• Molecule 2: Tubulin alpha

Chain J1: 63% 32% 5%



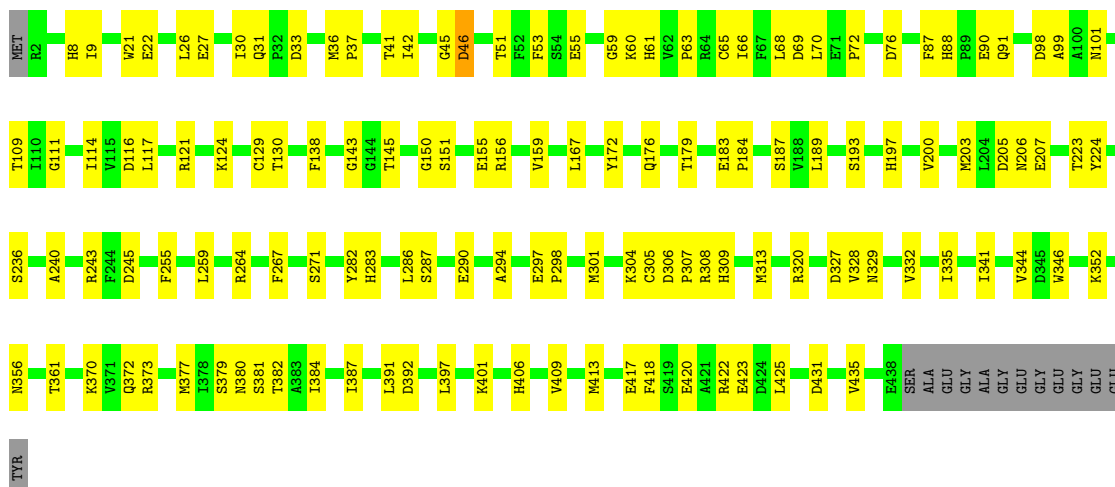
• Molecule 2: Tubulin alpha

Chain J3: 68% 27% 5%

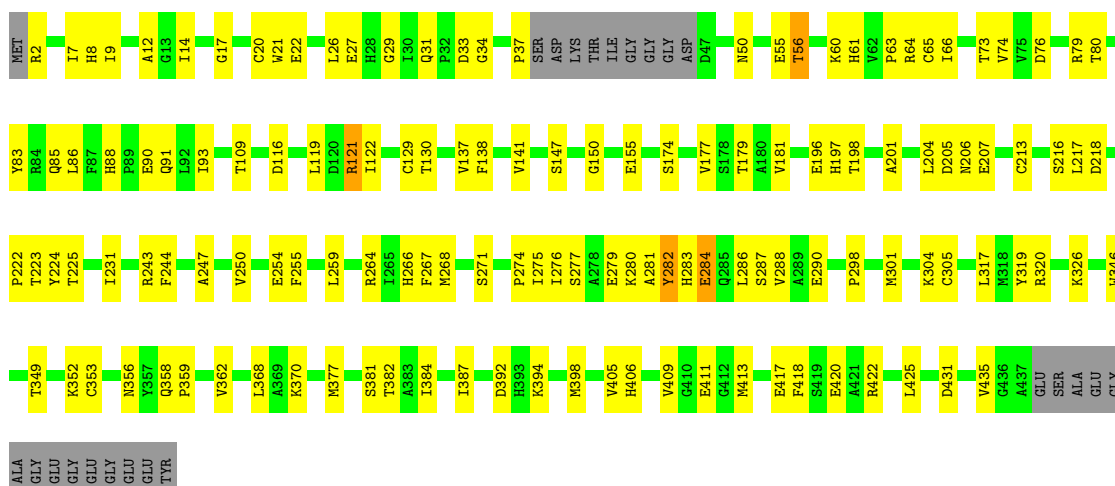




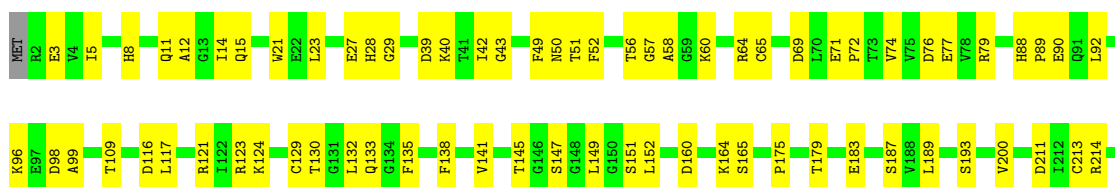
• Molecule 2: Tubulin alpha

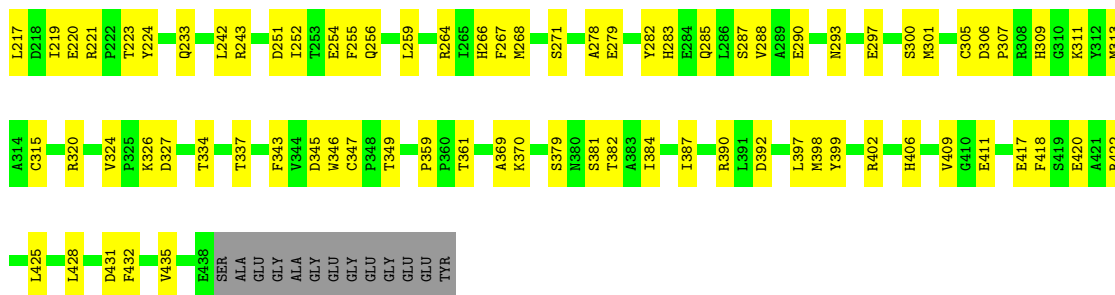


• Molecule 2: Tubulin alpha

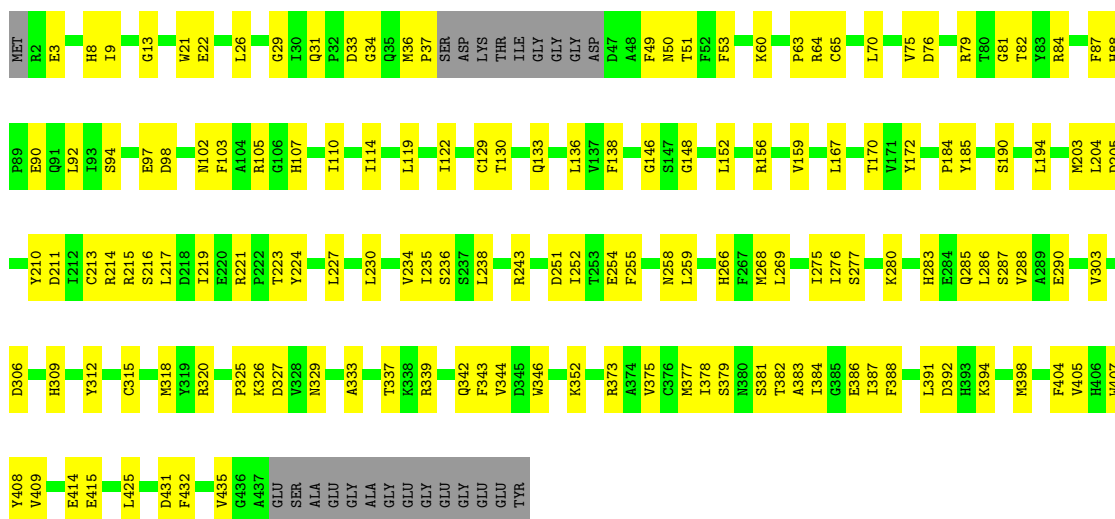


• Molecule 2: Tubulin alpha

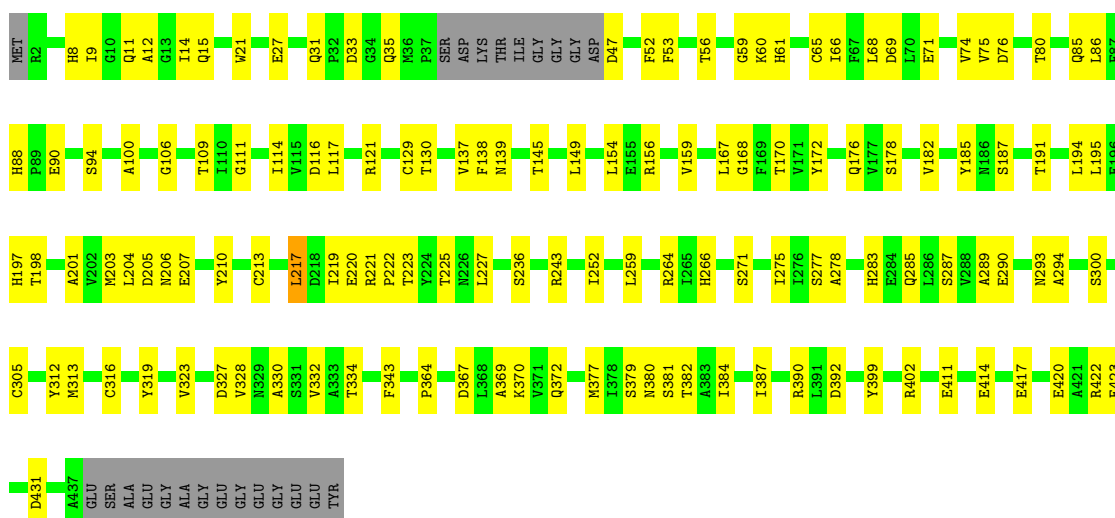




• Molecule 2: Tubulin alpha

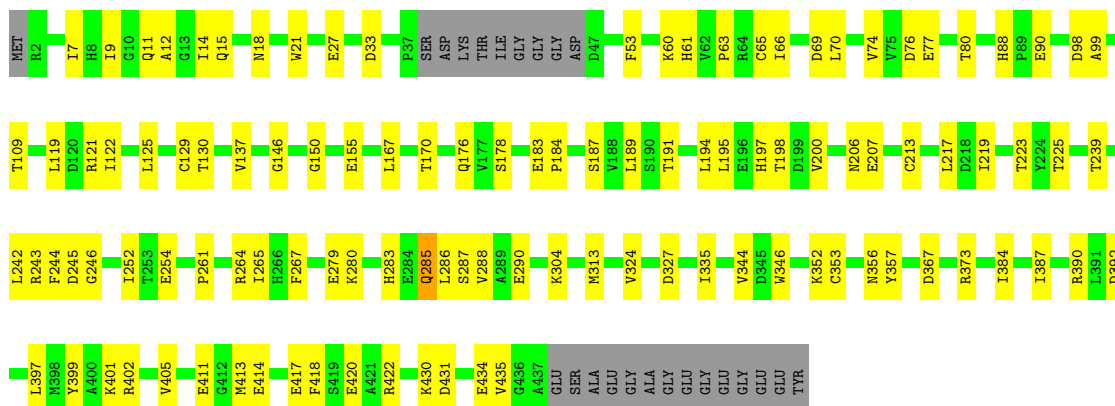


• Molecule 2: Tubulin alpha



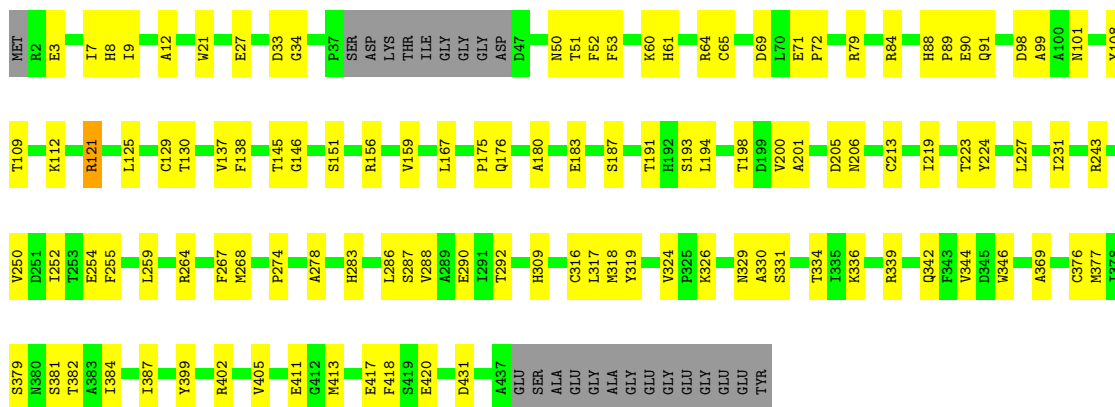
• Molecule 2: Tubulin alpha

Chain K5:  70% 24% 5%



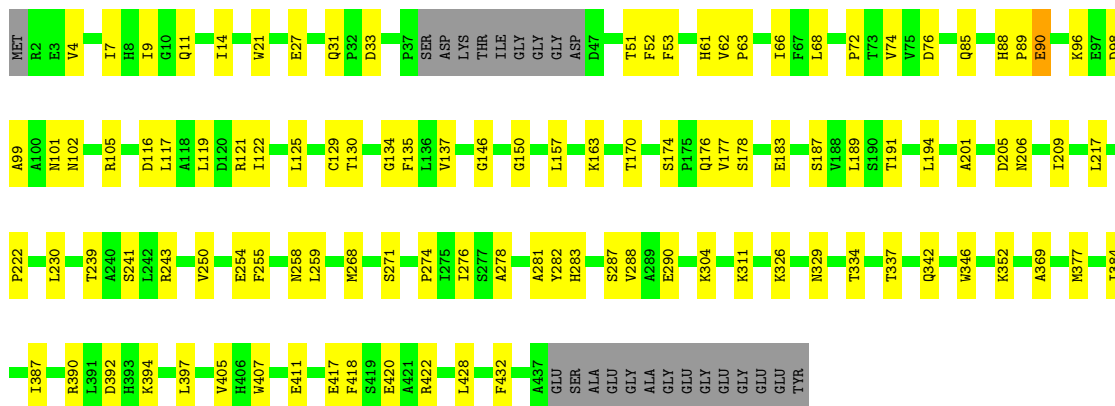
• Molecule 2: Tubulin alpha

Chain K7:  70% 25% 5%



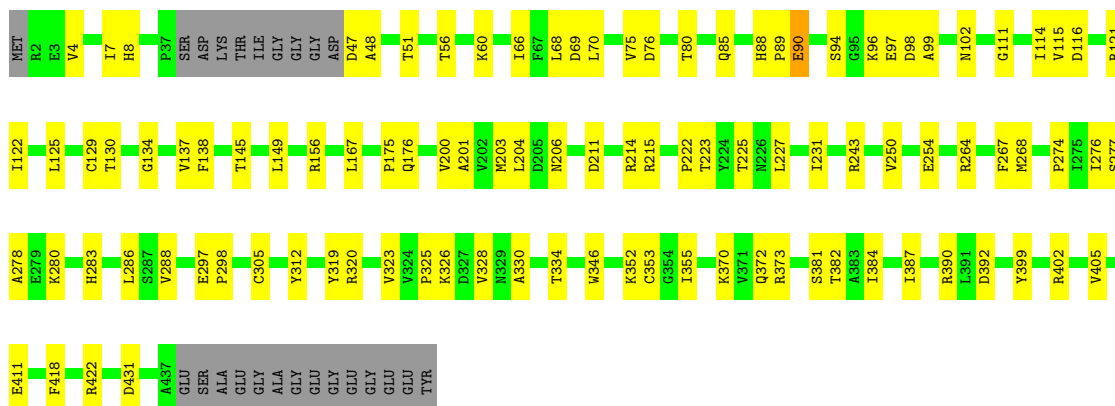
• Molecule 2: Tubulin alpha

Chain K9:  71% 24% 5%



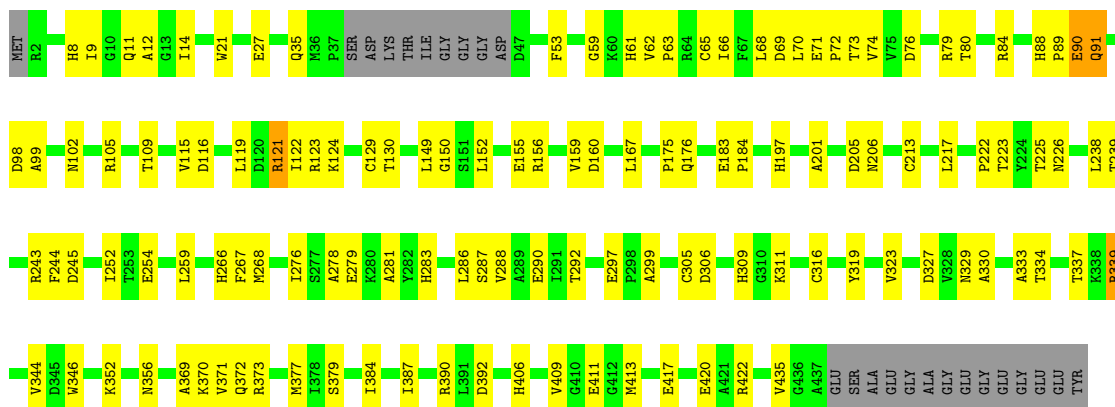
• Molecule 2: Tubulin alpha

Chain L1:  72% 22% 5%



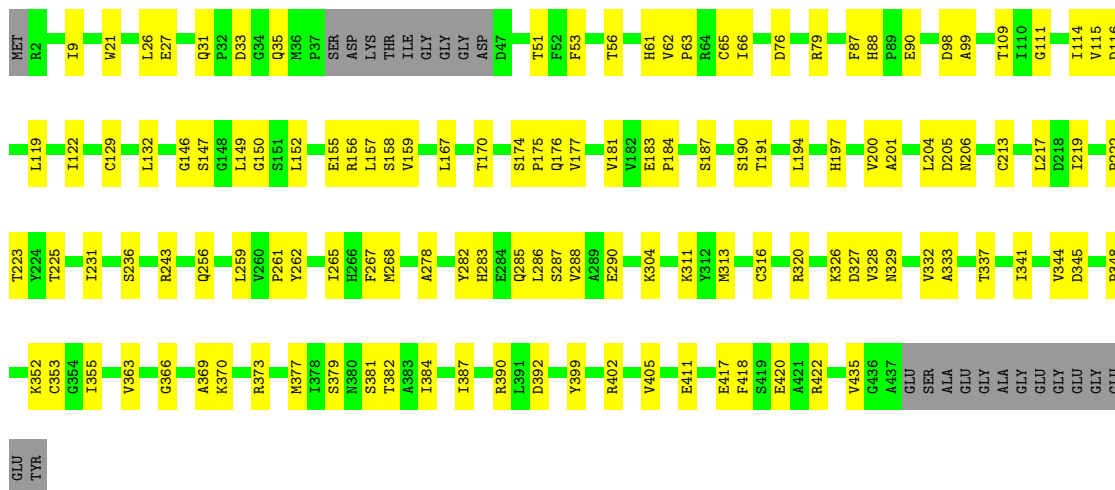
• Molecule 2: Tubulin alpha

Chain L3:  67% 27% 5%



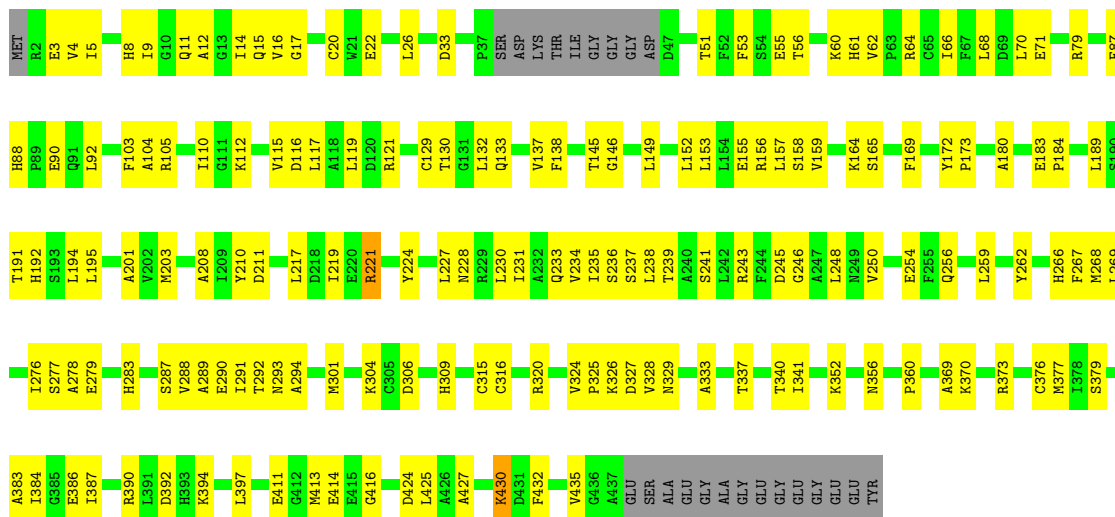
• Molecule 2: Tubulin alpha

Chain L5:  67% 28% 5%



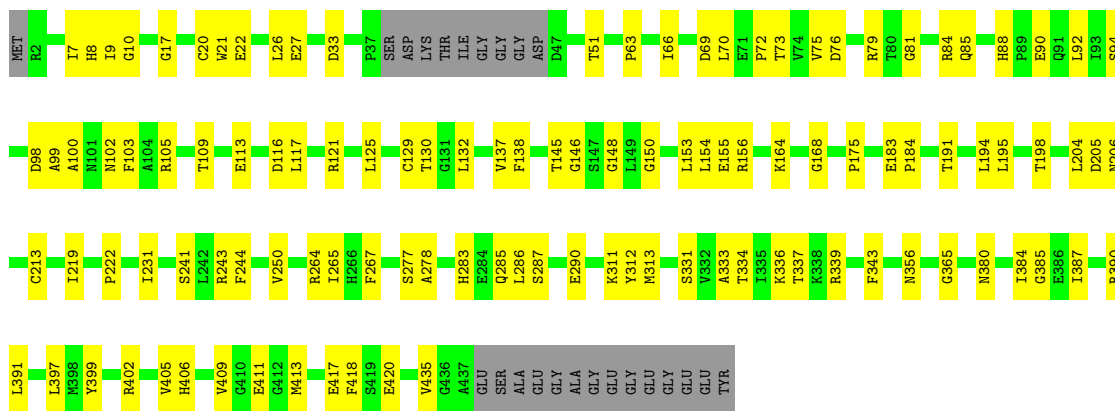
• Molecule 2: Tubulin alpha

Chain L7: 59% 35% 5%



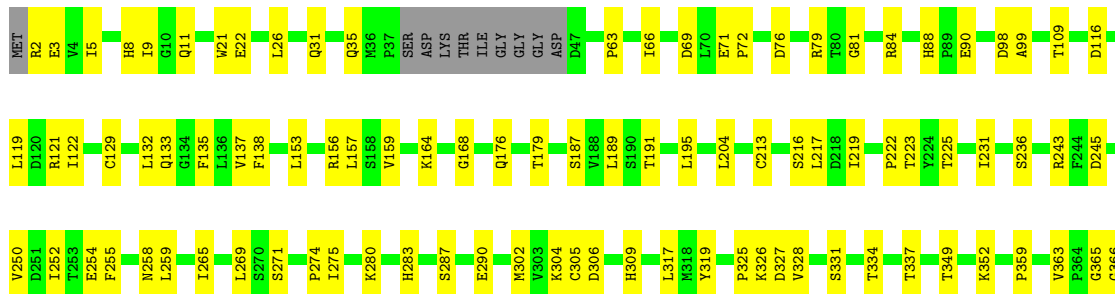
• Molecule 2: Tubulin alpha

Chain L9: 70% 25% 5%



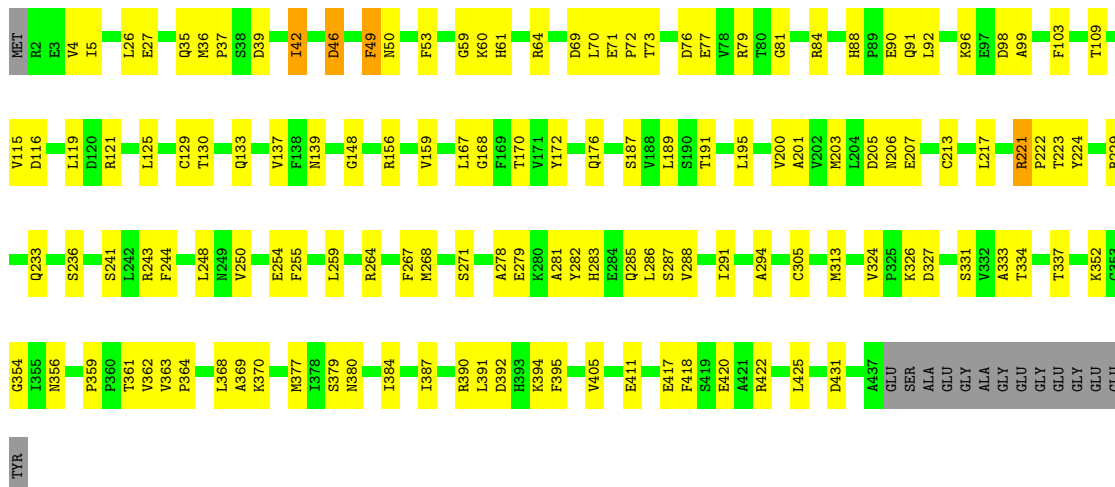
• Molecule 2: Tubulin alpha

Chain M1: 71% 24% 5%

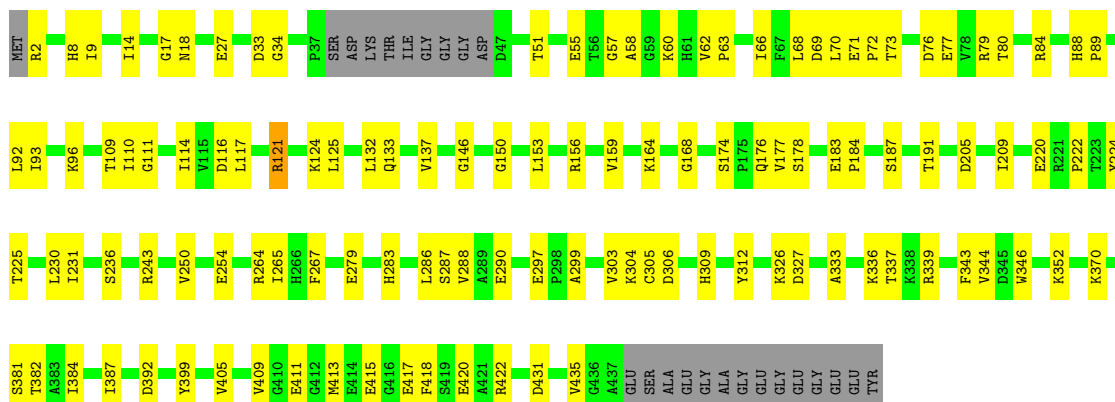




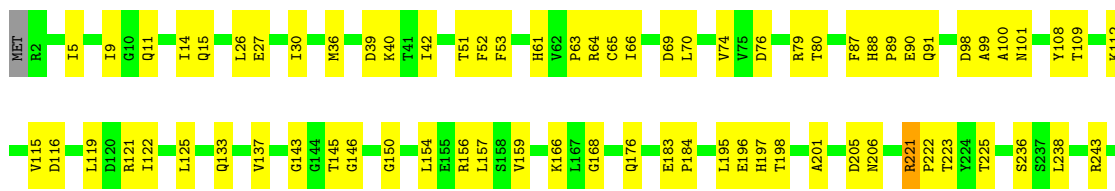
• Molecule 2: Tubulin alpha

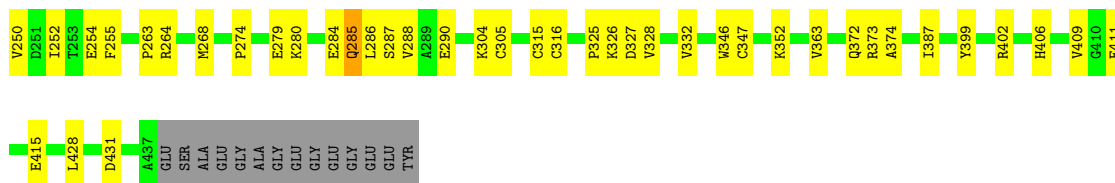


• Molecule 2: Tubulin alpha

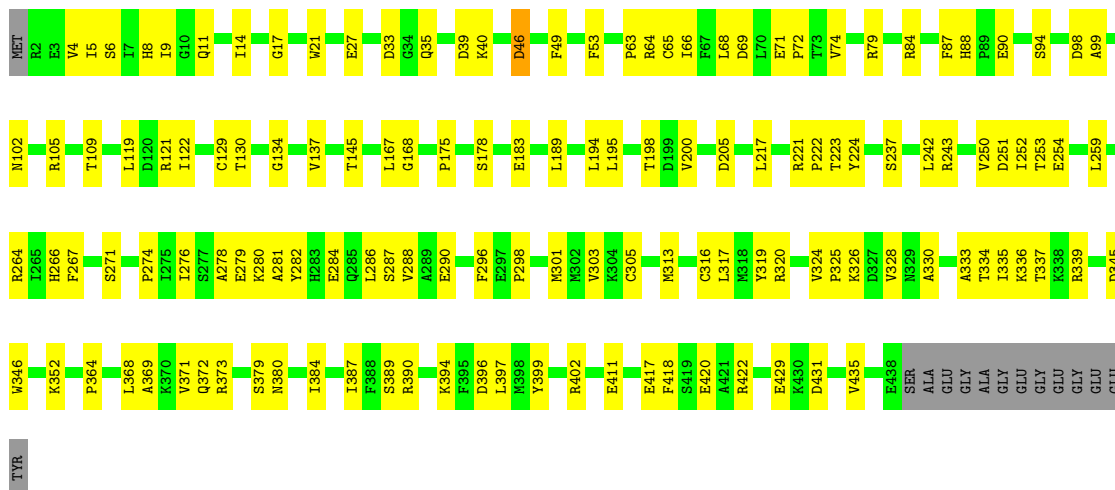


• Molecule 2: Tubulin alpha

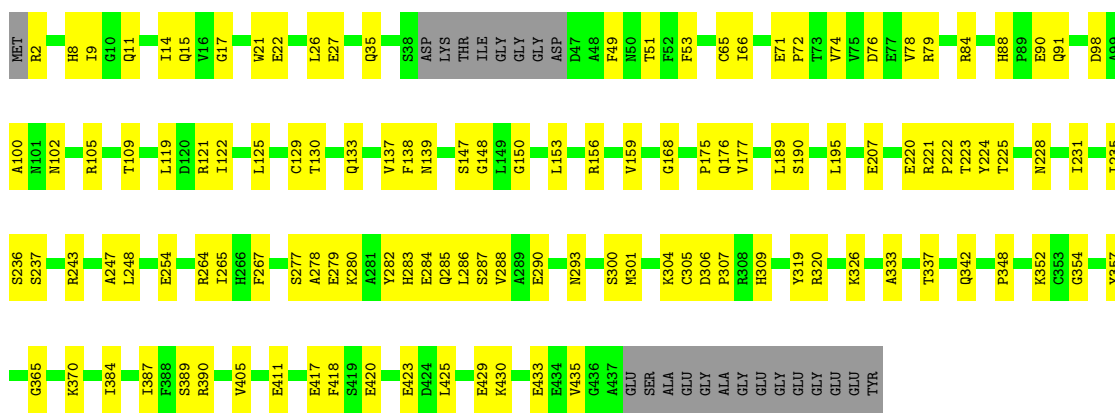




• Molecule 2: Tubulin alpha

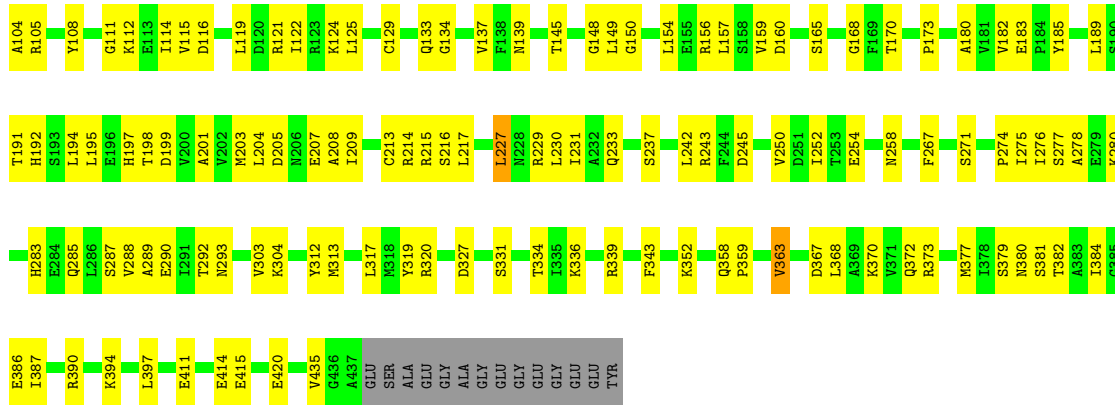


• Molecule 2: Tubulin alpha

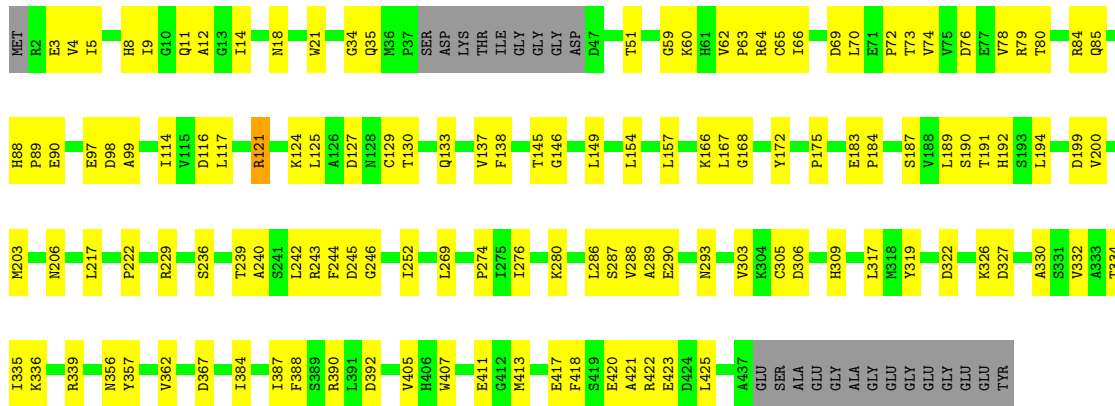


• Molecule 2: Tubulin alpha

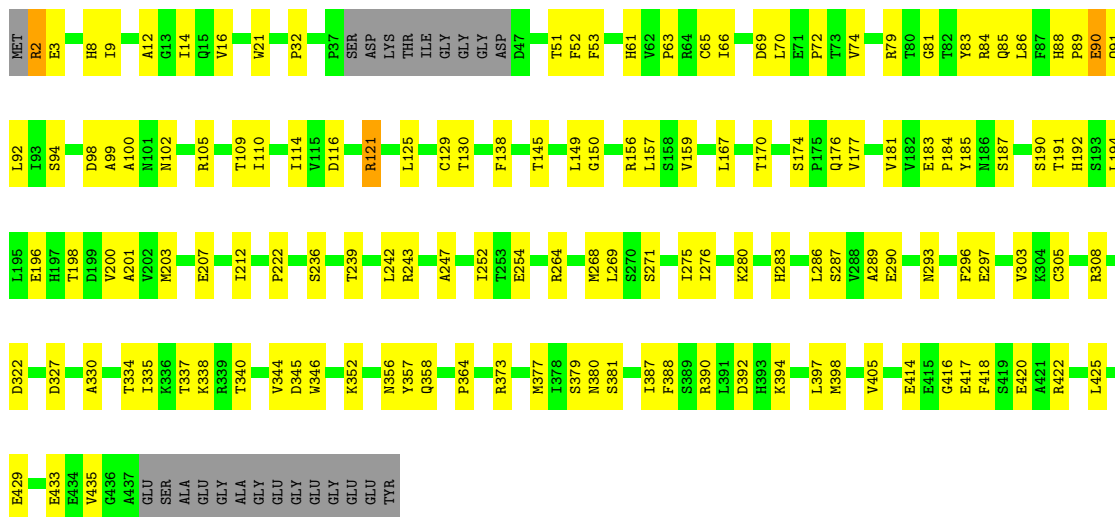




• Molecule 2: Tubulin alpha



• Molecule 2: Tubulin alpha



• Molecule 2: Tubulin alpha

Chain N9:



MET	R2	E3	I7	H8	I9	A12	G13	I14	W21	C25	L26	E27	I30	D33	G34	Q35	R36	P37	SER	ASP	LYS	THR	ILE	GLY	GLY	GLY	ASP	D47	N50	F53	T56	K60	H61	V62	P63	R64	C65	T66	F67	L68	D69	L70	D76	R79	T80	G81	R84	Q85	H88	P89	E90	I93	V200	A201	G201	V202	I108	T109	I110	G111	K112	E113	V114	V115	L119	I122	R123	K124	L125	C129	Q133	V137	F138	L149	E155	R156	L157	V159	R163	L167	S174	P175	Q176	V177	S178	E183	P184	V188	L189	S190	T191	L194	H197	Y200	G201	V202	E207	Y210	S216	L217	E220	R221	P222	S236	A240	R243	F244	D245	G246	V250	D251	T252	T253	E254	N258	L259	V260	P261	H266	F267	M268	I276	S277	A278	E279	A281	Y282	H283	R284	Q285	L286	S287	V288	A289	E290	F296	C305	D306	F307	R308	H309	M313	C316	Y319	V323	N329	A333	T334	I335	K336	T337	D345	M346	K352	N356	A369	R373	I387	R390	D392	H406	W407	Y408	G410	E411	E417	E420	A421	R422	A437	SER	ALA	GLU	GLY	ALA	GLY	GLY	GLY	GLY	GLY	GLY	GLY	TYR
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• Molecule 2: Tubulin alpha

Chain O1:



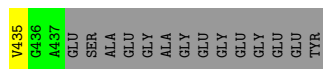
MET	R2	E3	I9	A12	G13	I14	W21	E27	P37	SER	ASP	LYS	THR	ILE	GLY	GLY	GLY	ASP	D47	T51	F52	F53	T56	H61	V62	P63	C65	I66	D69	L70	V74	W75	D76	R79	Q85	H88	P89	E90	S94	D98	A99	I110	I114	Y115	D116	L119	T120	G121	R121	I122	L125	C129	L132	G133	G134	V137	T145	G146	G150	R156	G168	F169	T170	P176	G176	V177	L189	L194	D199	R203	S216	L217	R221	P222	T223	T225	N226	R229	A240	R243	F244	V250	E254	F255	Q256	N258	L259	I275	I276	S277	A278	E279	K280	H283	E284	Q285	L286	S287	V288	E290	V303	C316	Y319	R320	G321	D322	V323	V324	K325	D327	K352	N356	F364	D367	L368	A369	V371	Q372	R373	I387	R390	D392	D396	L397	K401	V405	H406	W407	Y408	M413	E417	F418	S419	E420	A421	R422	E429	E433	A437	SER	ALA	GLU	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	TYR
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• Molecule 2: Tubulin alpha

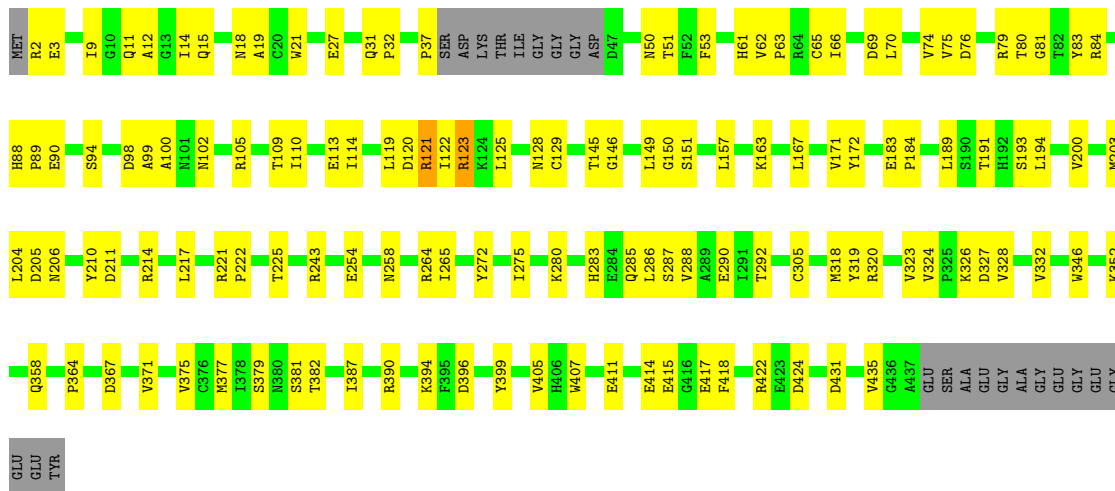
Chain O3:



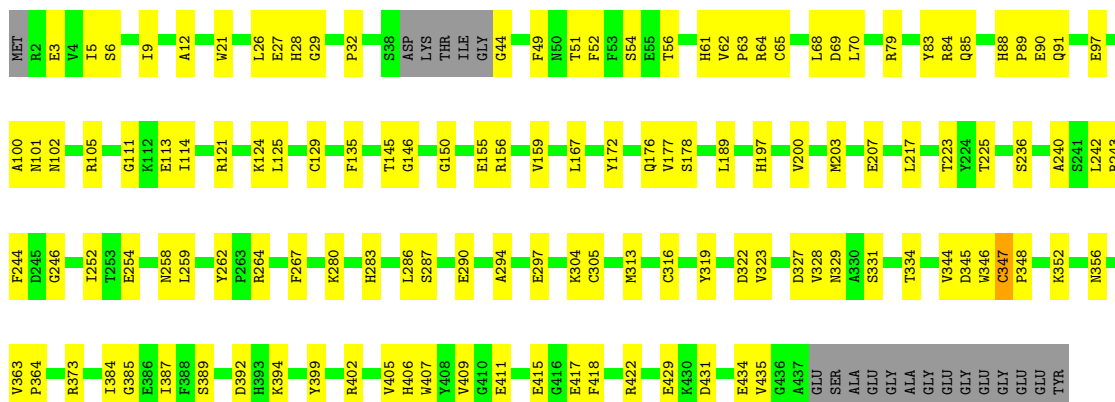
MET	R2	E3	V4	I5	H8	I9	W21	L26	H28	P32	P37	SER	ASP	LYS	THR	ILE	GLY	GLY	ASP	D47	A48	F49	N50	T51	F52	F53	T56	H61	V62	P63	R64	C65	I66	D69	L70	E71	P72	T73	V74	H88	P89	E90	L92	D98	A99	N101	R105	Y108	T109	G110	I110	G111	K112	E113	V114	V115	D116	L117	A118	L119	D120	I122	C129	T130	F135	F138	G143	G144	T145	G146	L149	G150	E155	K163	F169	Q176	V177	V181	V182	E183	P184	H309	G310	V188	K311	T191	L194	H197	M203	E207	R214	I219	E220	P222	T223	Y224	T225	R243	F244	G246	E254	I265	I276	A278	E279	K280	H283	Q284	L286	S287	E290	I291	A294	A296	F296	E297	V303	D306	G310	F418	Y419	M313	Y319	D322	V323	V324	D327	K352	N356	F364	D367	L368	A369	V371	Q372	R373	I387	R390	D392	D396	L397	K401	V405	H406	W407	Y408	M413	E417	F418	S419	E420	A421	R422	E429	E433	A437	SER	ALA	GLU	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	TYR
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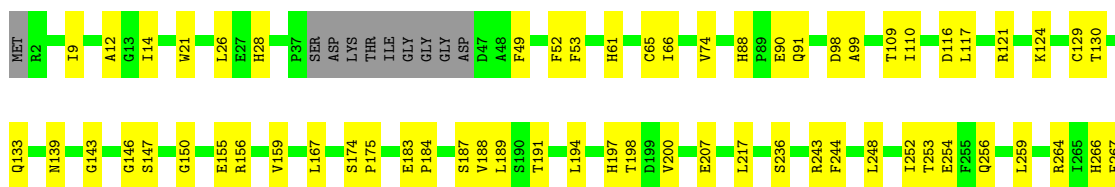
• Molecule 2: Tubulin alpha

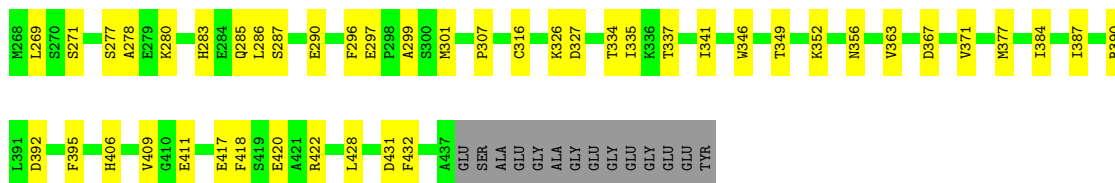


• Molecule 2: Tubulin alpha

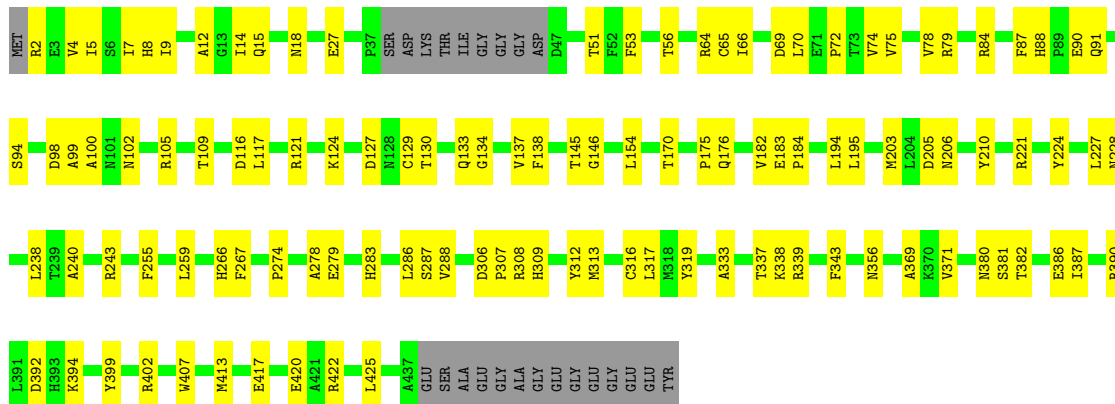


• Molecule 2: Tubulin alpha

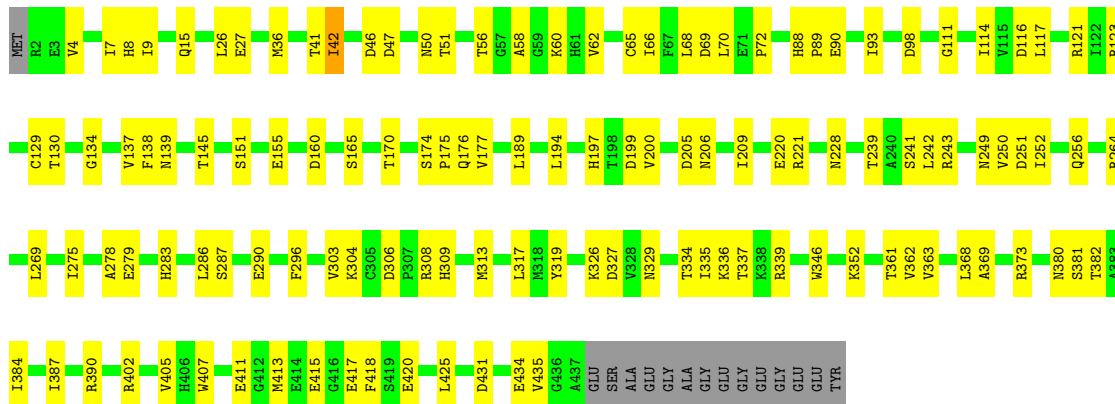




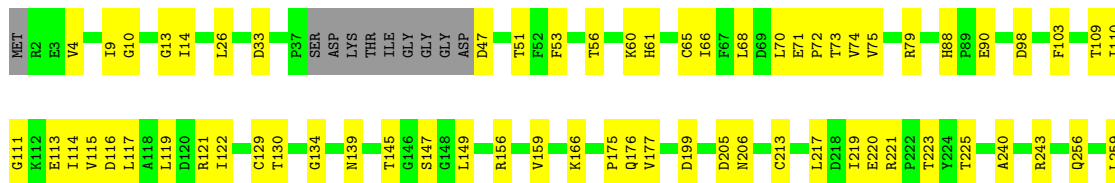
• Molecule 2: Tubulin alpha



• Molecule 2: Tubulin alpha

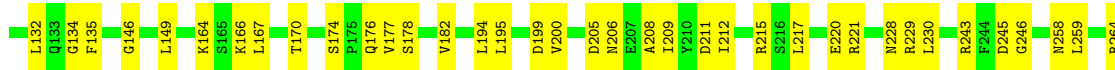


• Molecule 2: Tubulin alpha

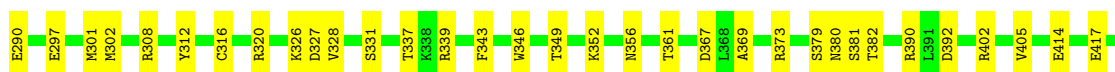
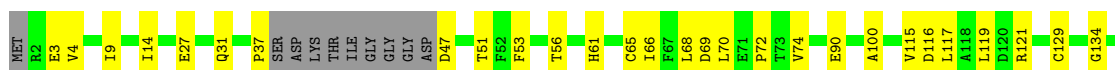




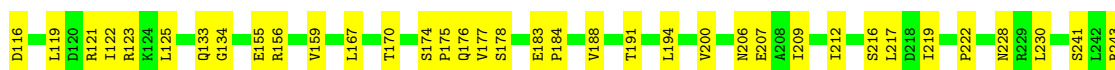
• Molecule 2: Tubulin alpha

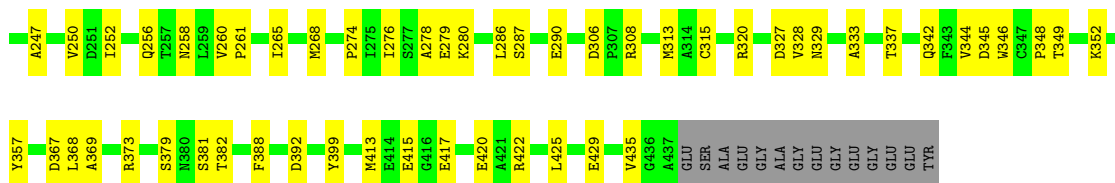


• Molecule 2: Tubulin alpha

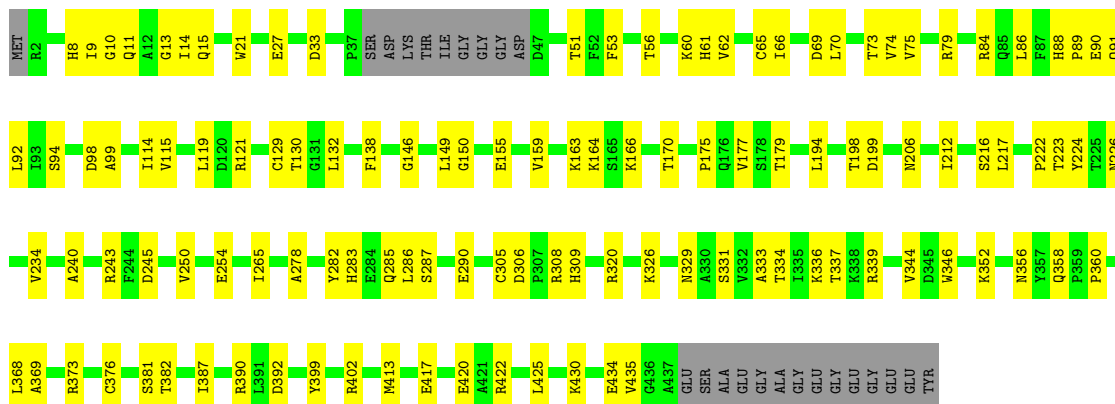


• Molecule 2: Tubulin alpha

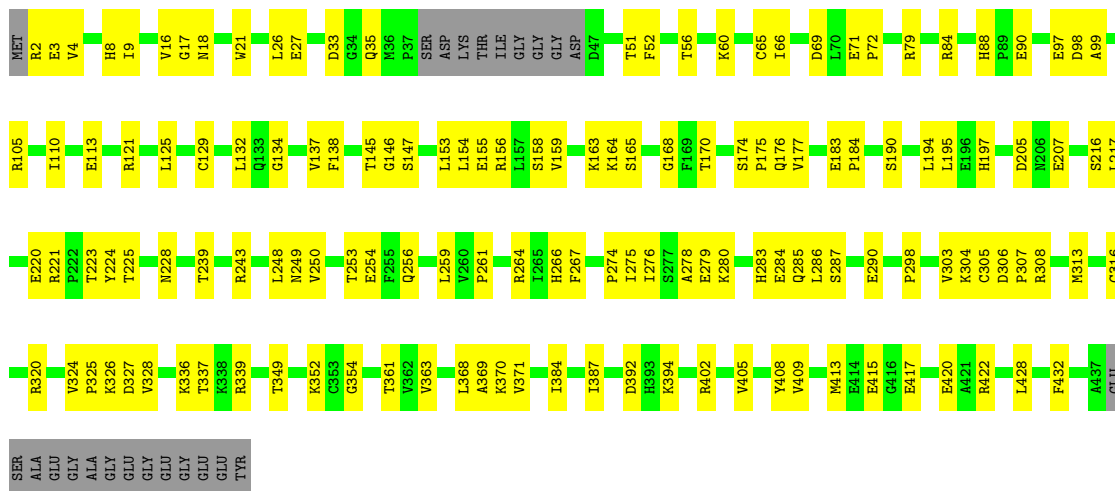




• Molecule 2: Tubulin alpha

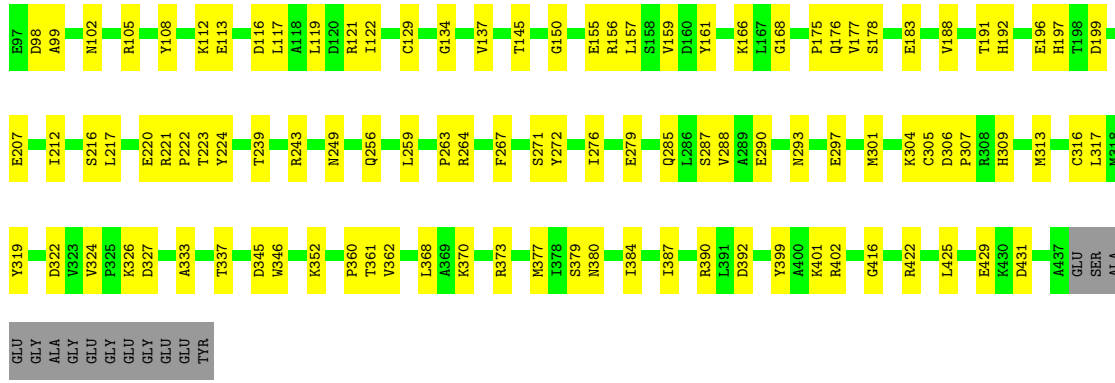


• Molecule 2: Tubulin alpha



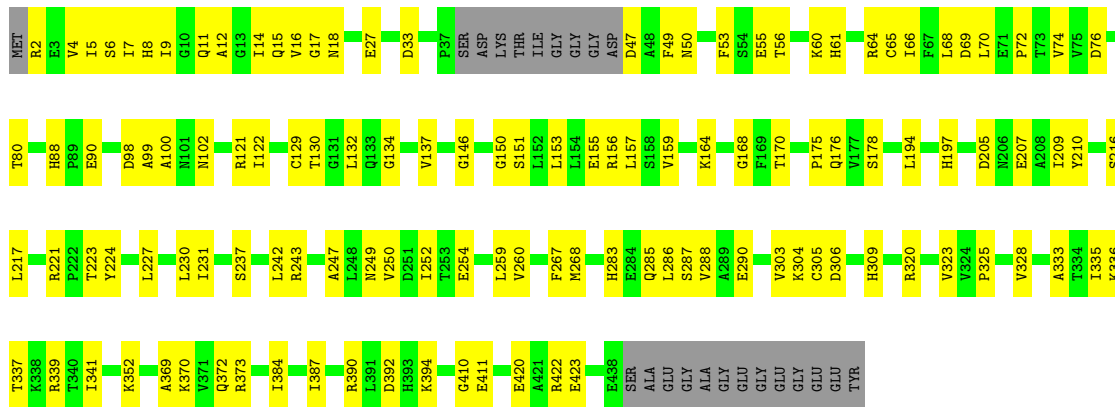
• Molecule 2: Tubulin alpha





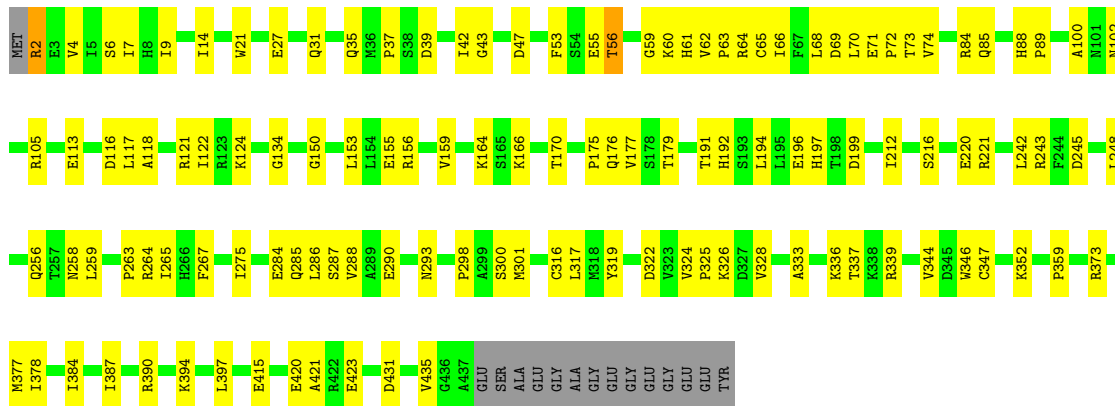
• Molecule 2: Tubulin alpha

Chain R3: 68% 27% 5%



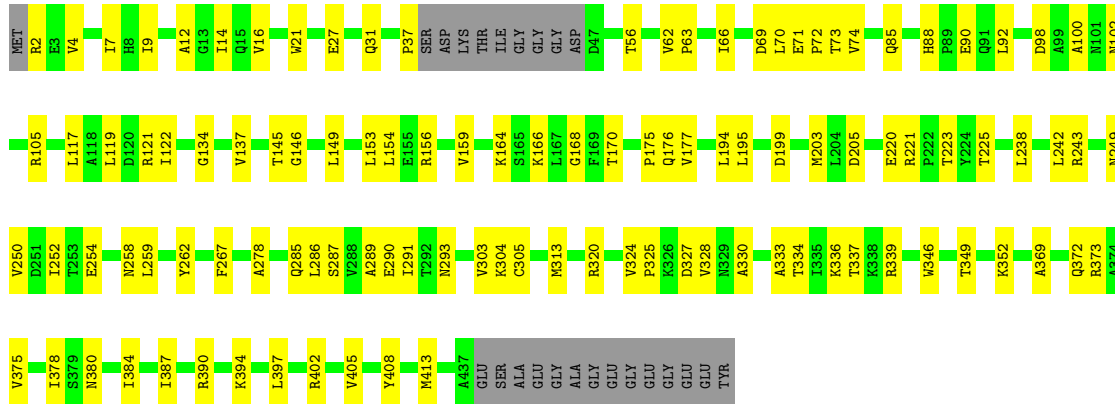
• Molecule 2: Tubulin alpha

Chain R5: 69% 27%

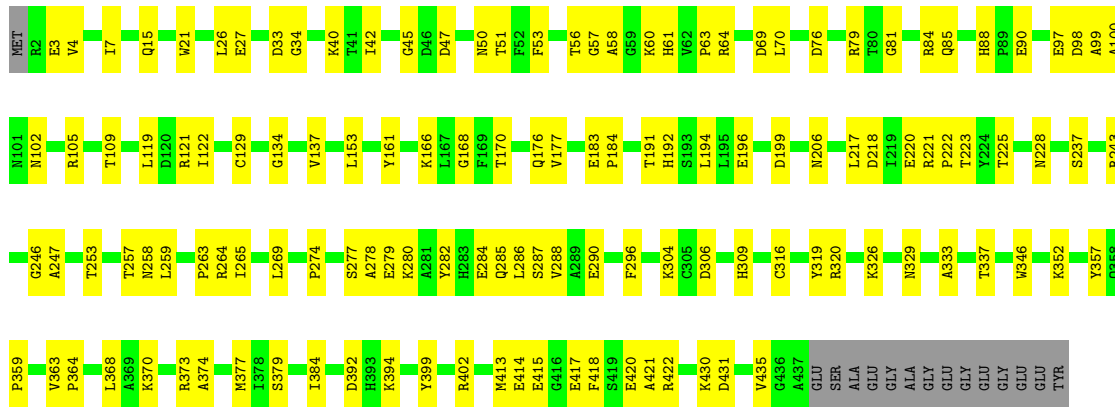


• Molecule 2: Tubulin alpha

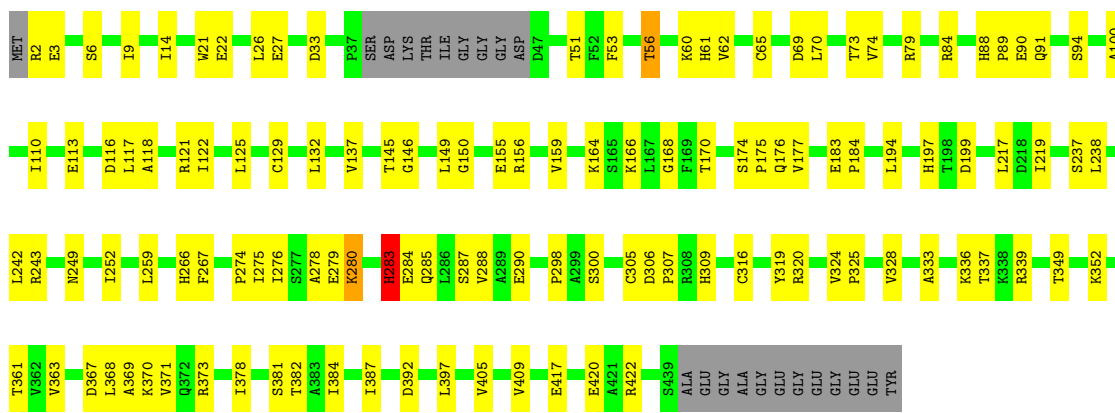
Chain R7: 70% 24% 5%



• Molecule 2: Tubulin alpha

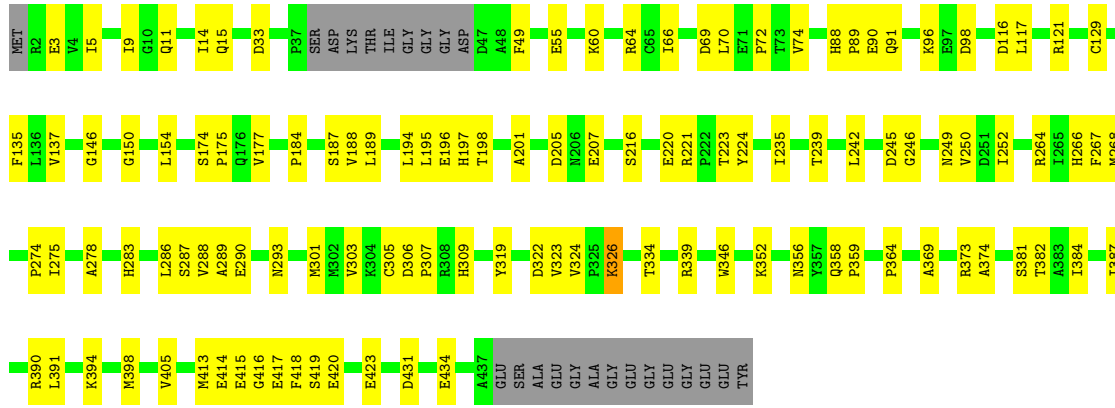


• Molecule 2: Tubulin alpha

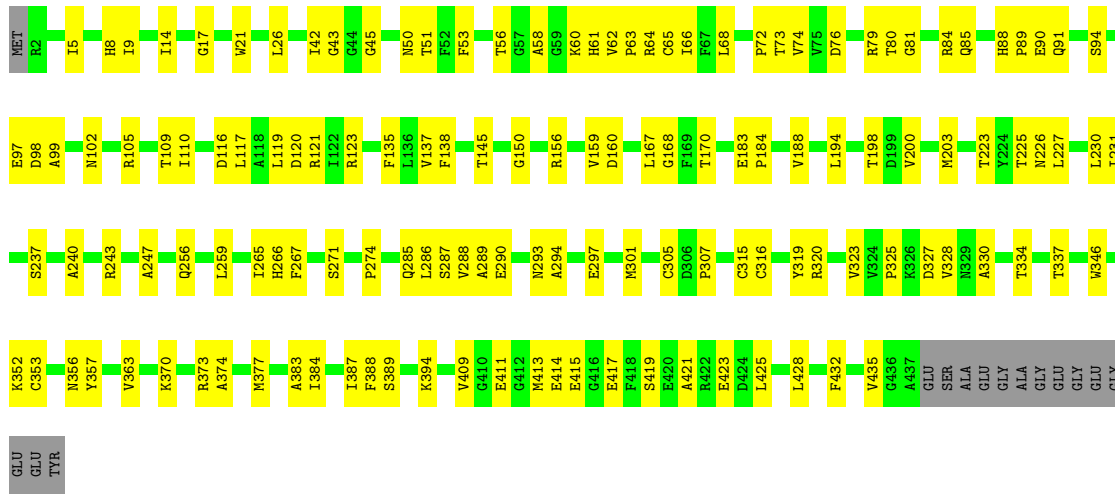


• Molecule 2: Tubulin alpha

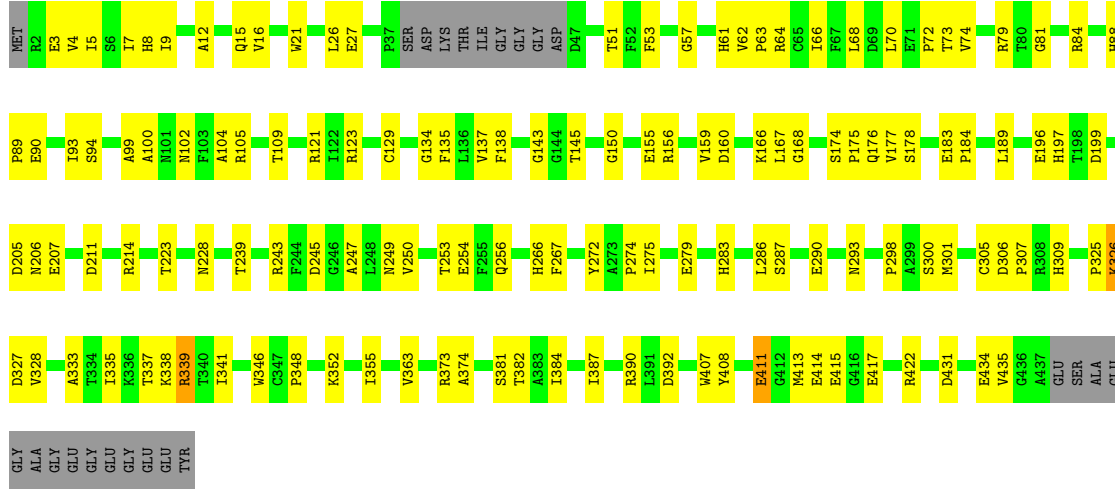




• Molecule 2: Tubulin alpha

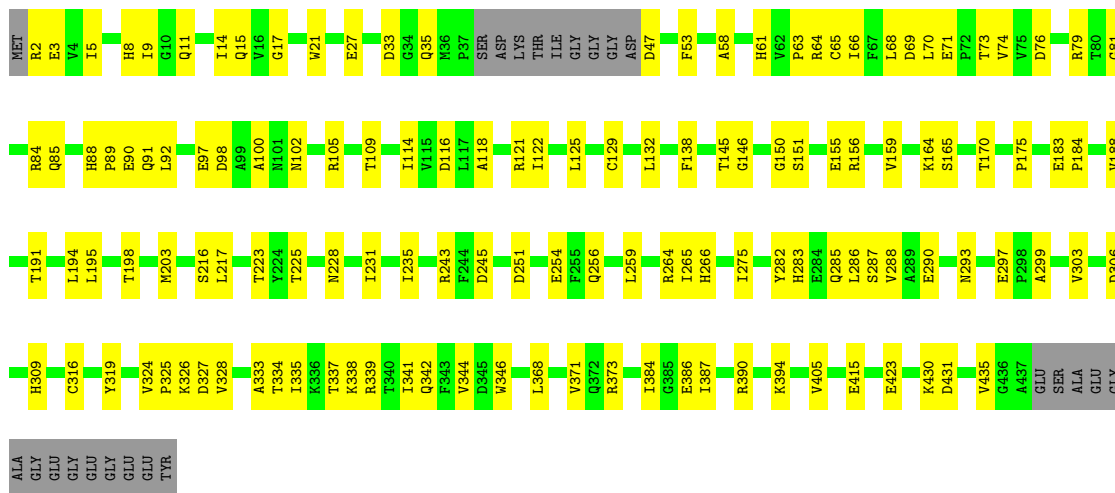


• Molecule 2: Tubulin alpha



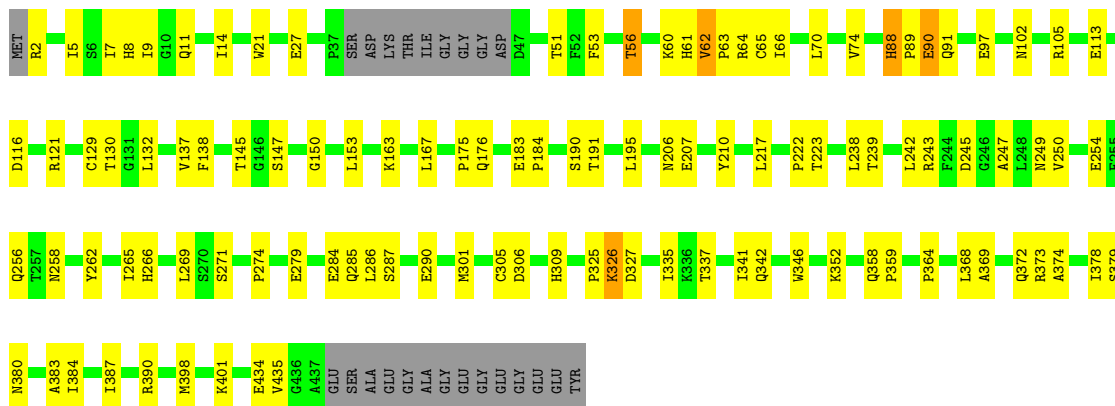
● Molecule 2: Tubulin alpha

Chain T1: 65% 29% 5%



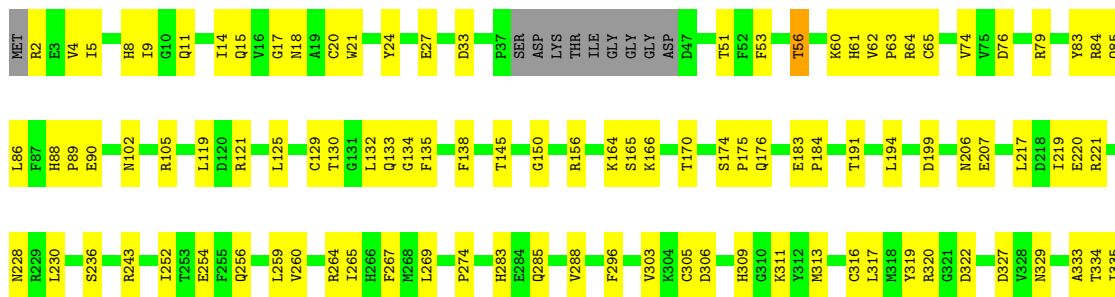
● Molecule 2: Tubulin alpha

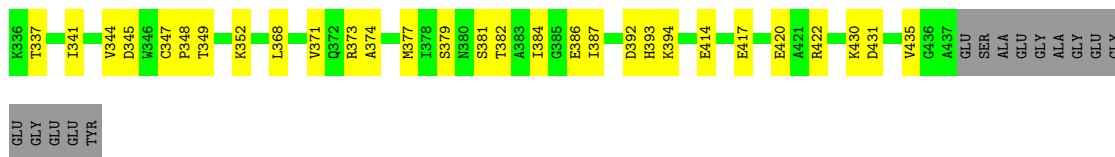
Chain T3: 70% 23% 5%



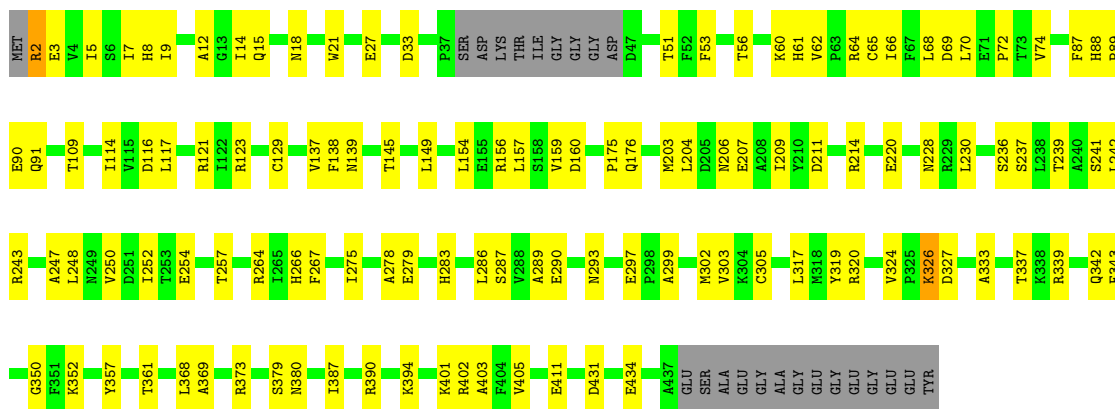
● Molecule 2: Tubulin alpha

Chain T5: 66% 29% 5%

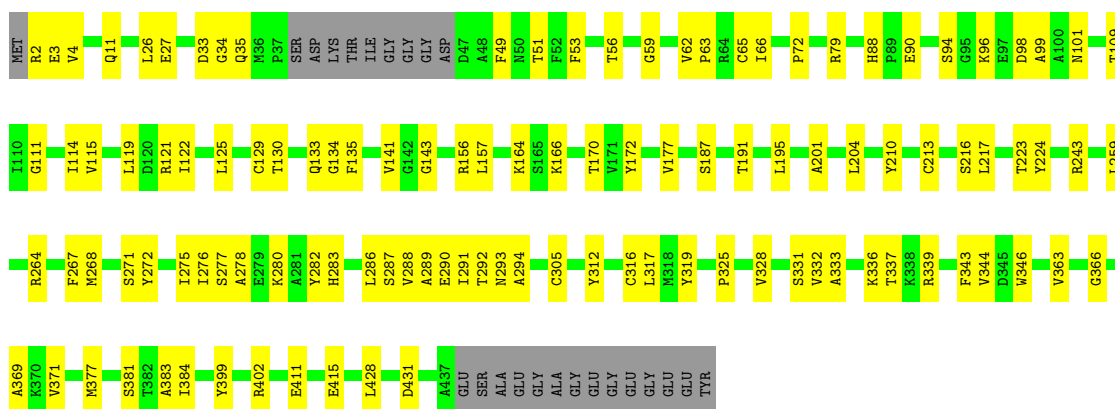




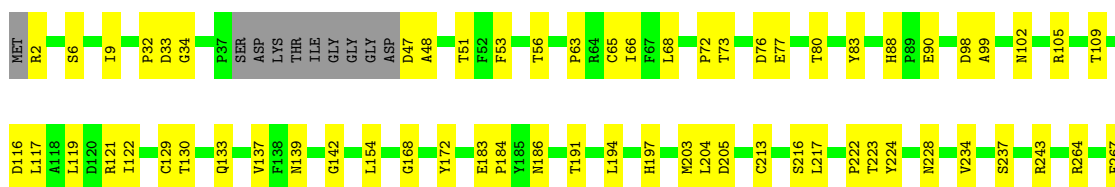
• Molecule 2: Tubulin alpha

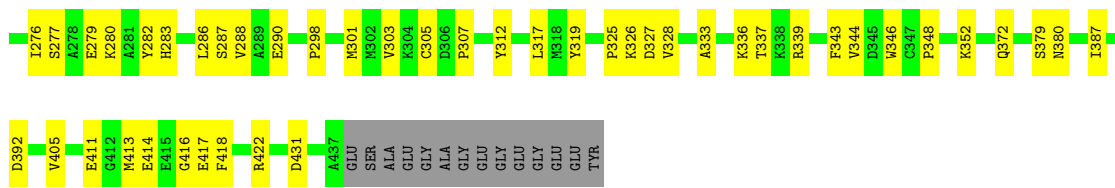


• Molecule 2: Tubulin alpha



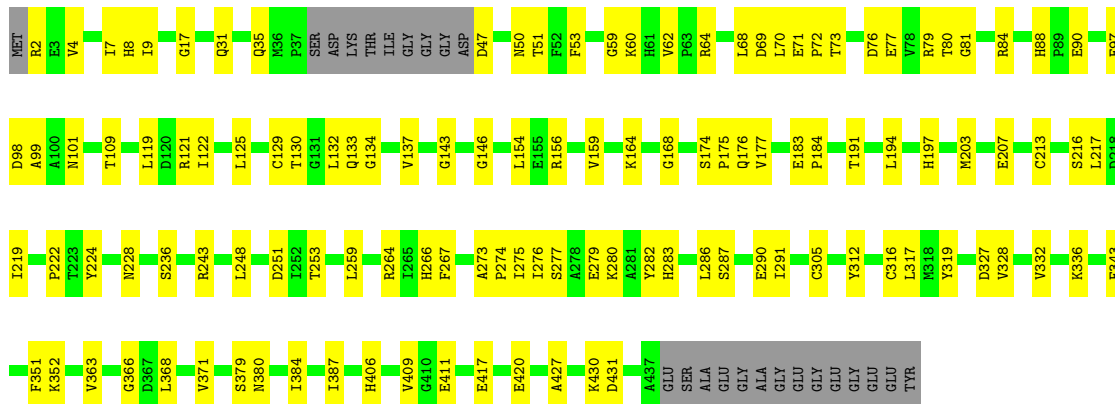
• Molecule 2: Tubulin alpha





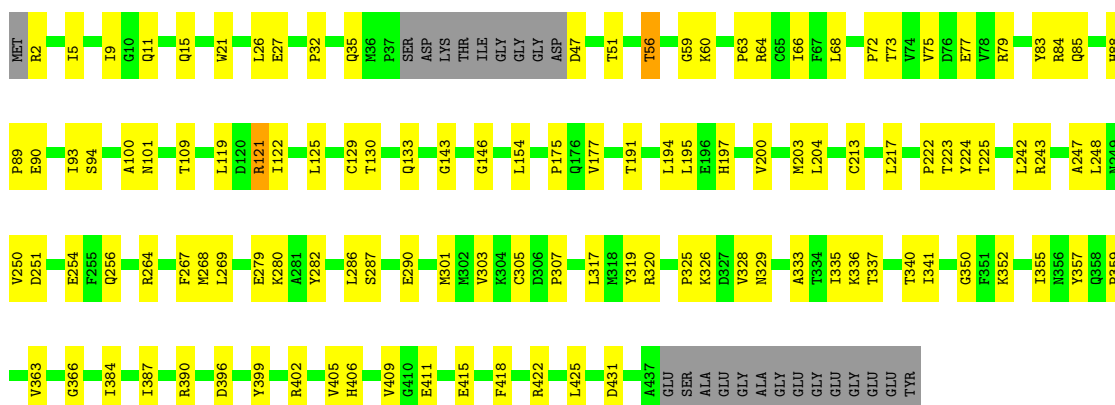
• Molecule 2: Tubulin alpha

Chain U5: 68% 27% 5%



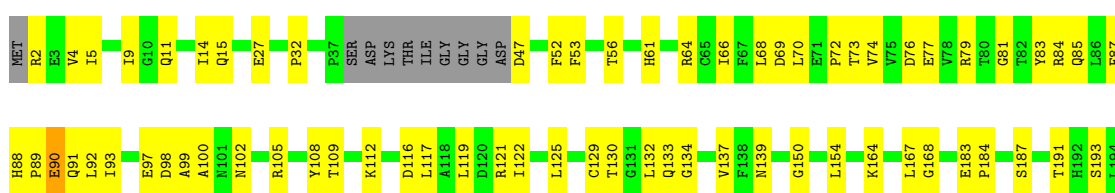
• Molecule 2: Tubulin alpha

Chain U7: 69% 25% 5%



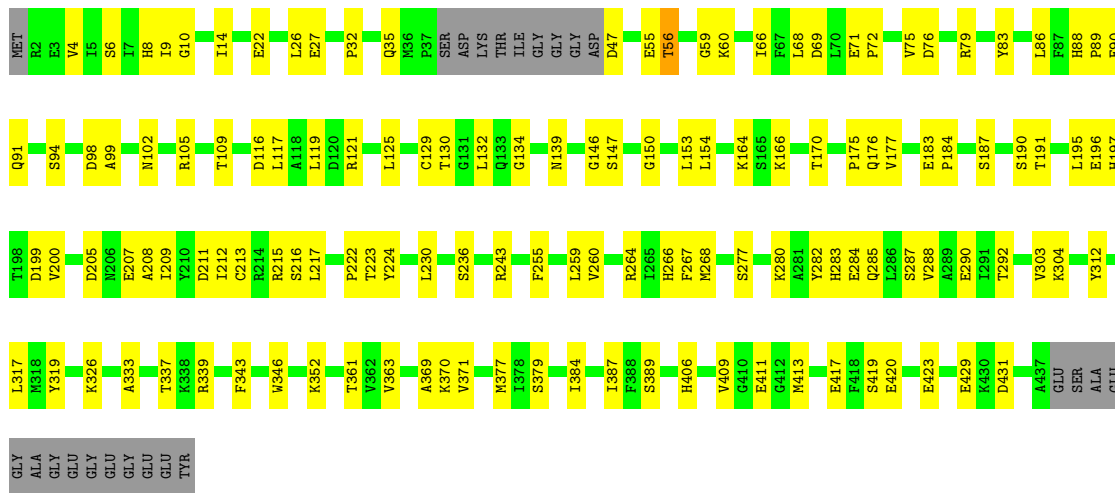
• Molecule 2: Tubulin alpha

Chain U9: 65% 29% 5%

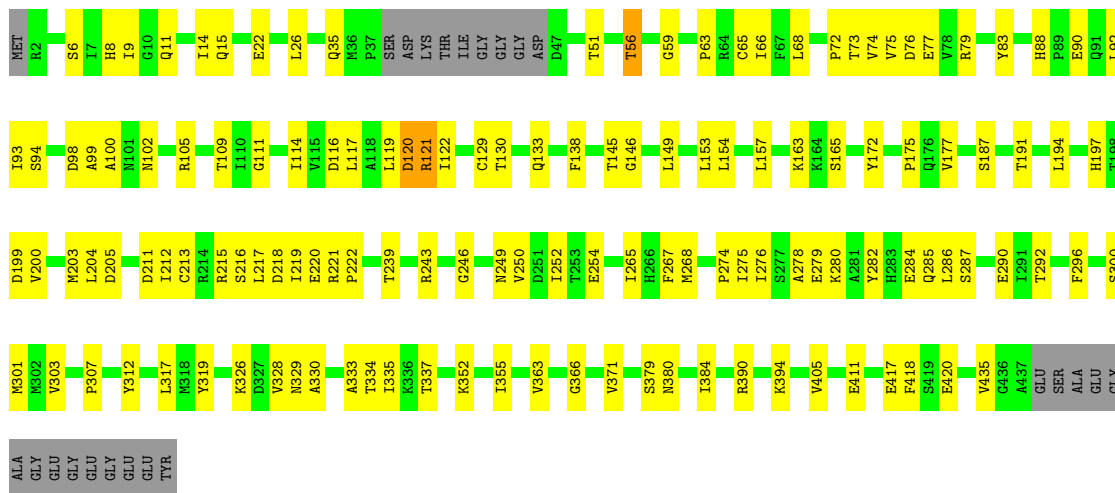




• Molecule 2: Tubulin alpha

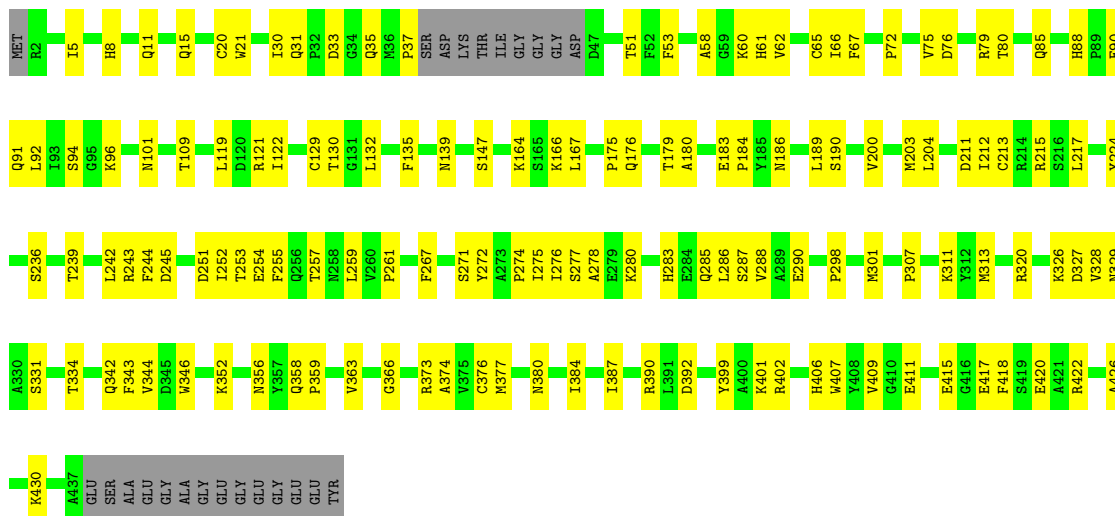


• Molecule 2: Tubulin alpha

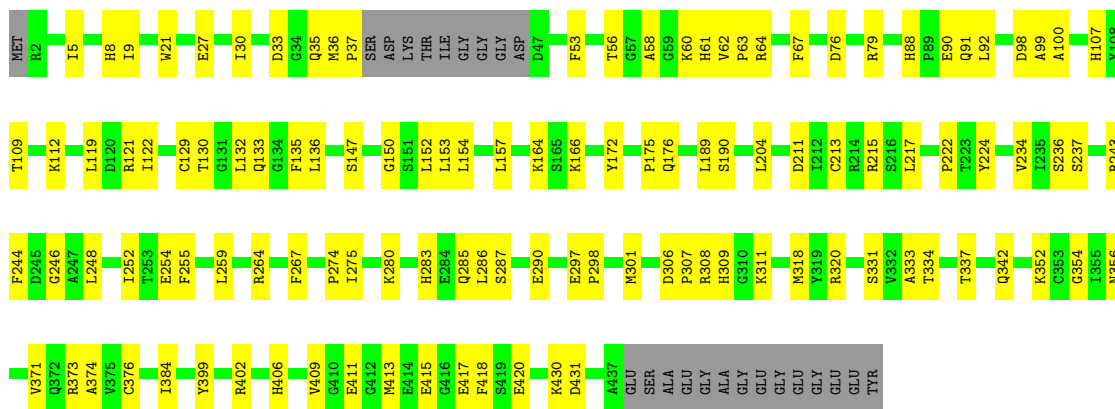


• Molecule 2: Tubulin alpha

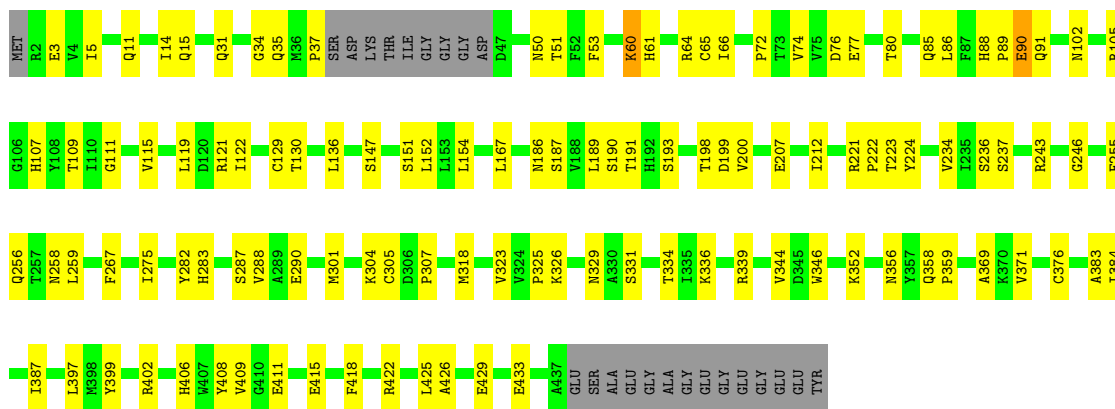




• Molecule 2: Tubulin alpha

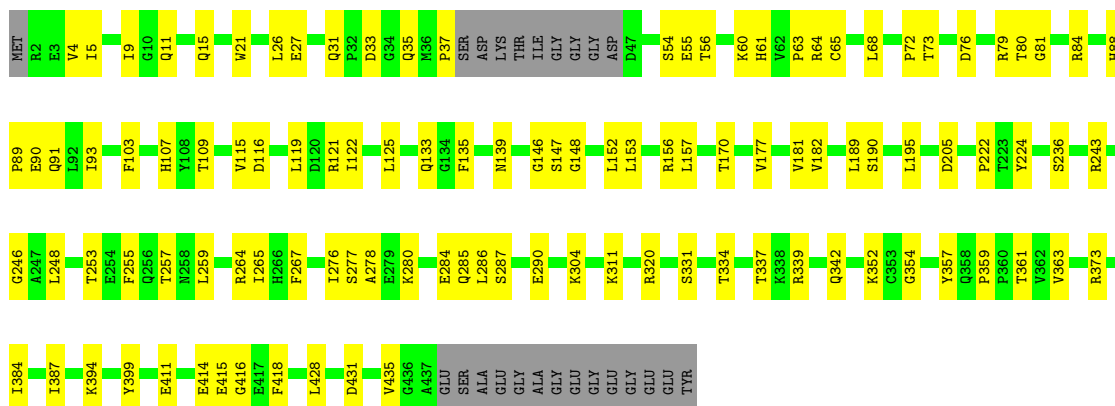


• Molecule 2: Tubulin alpha



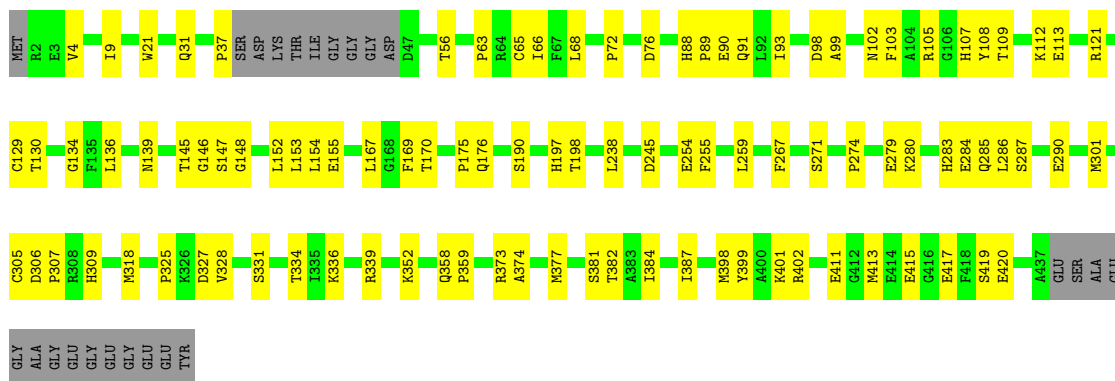
• Molecule 2: Tubulin alpha

Chain W3: 71% 24% 5%



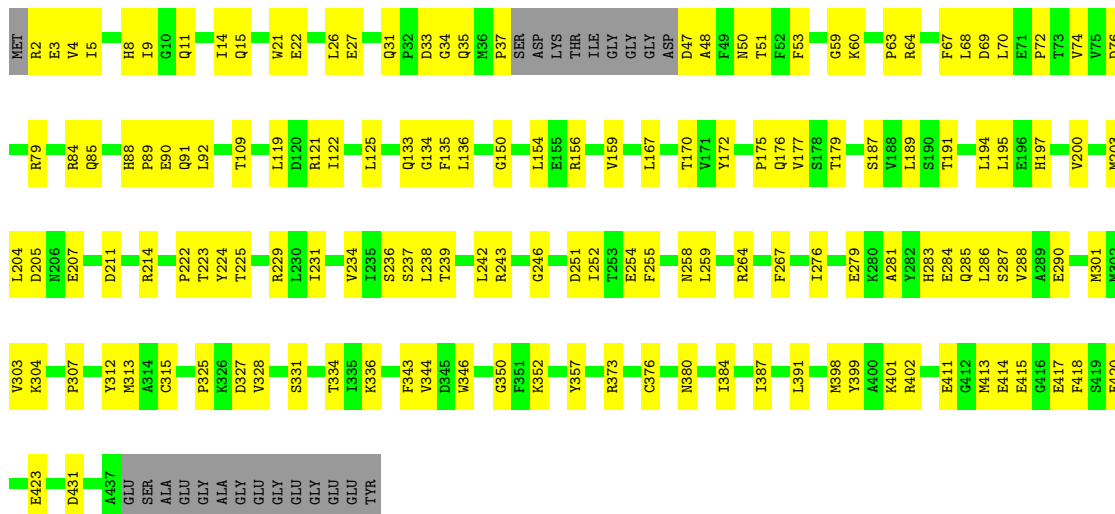
• Molecule 2: Tubulin alpha

Chain W5: 73% 22% 5%



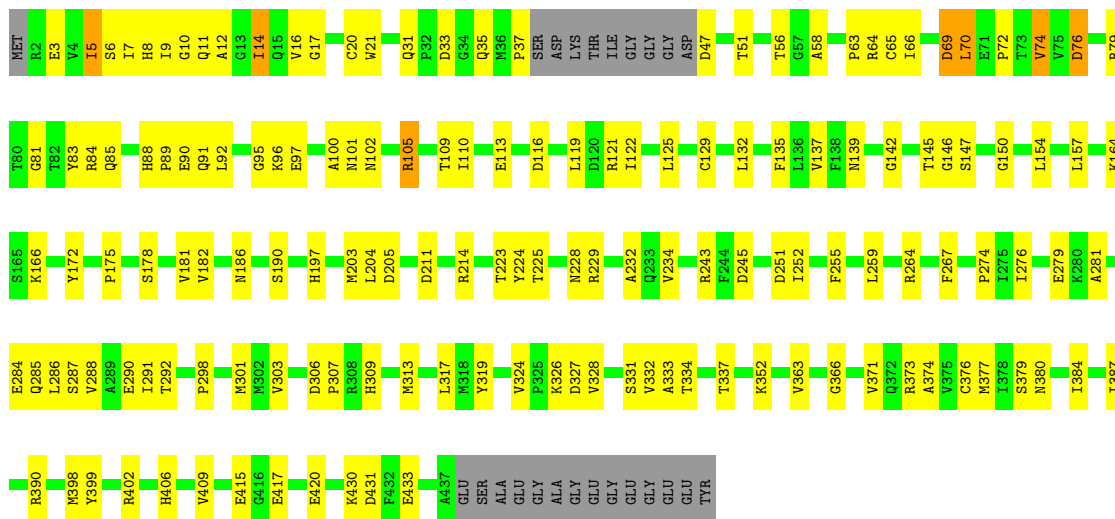
• Molecule 2: Tubulin alpha

Chain W7: 63% 32% 5%



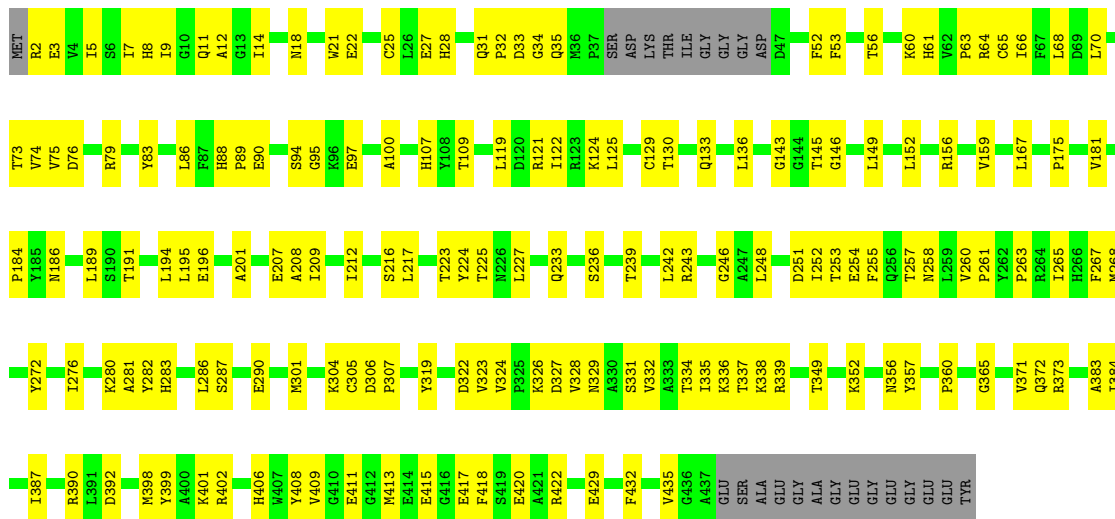
- Molecule 2: Tubulin alpha

Chain W9:  61% 32% 5%



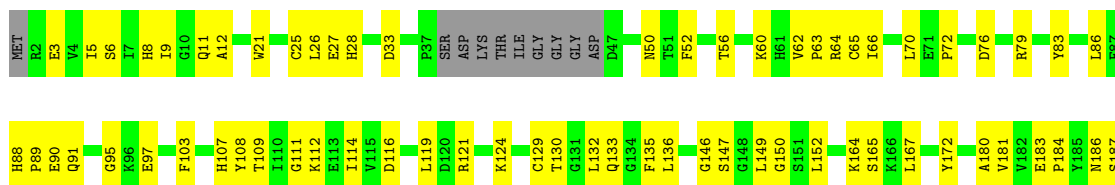
- Molecule 2: Tubulin alpha

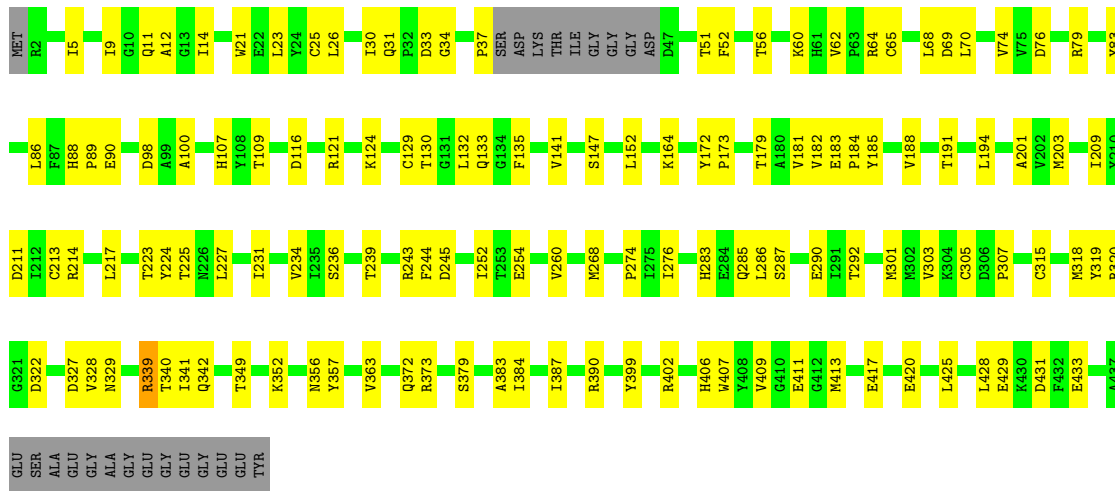
Chain X3:  58% 37% 5%



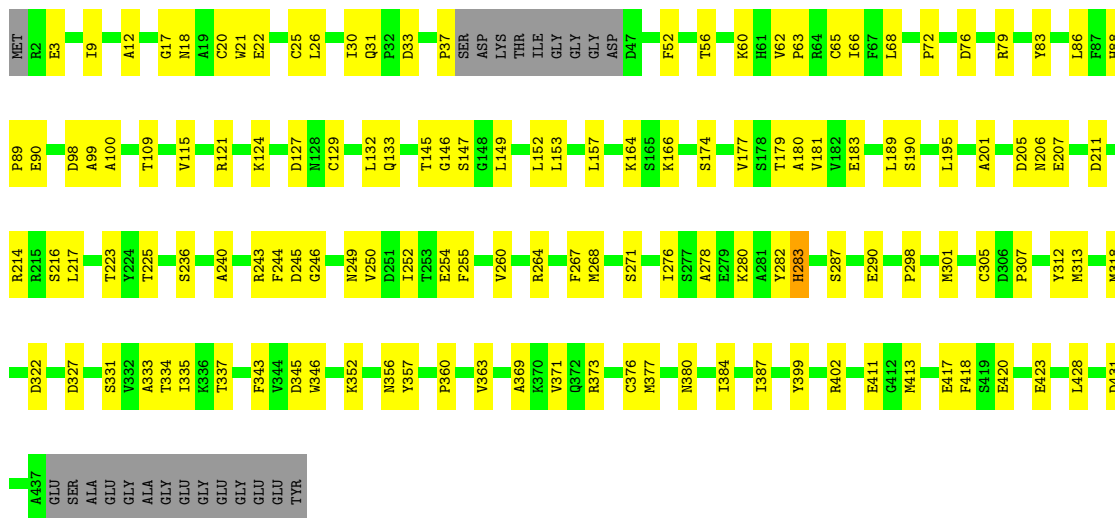
- Molecule 2: Tubulin alpha

Chain X5:  62% 32% 5%

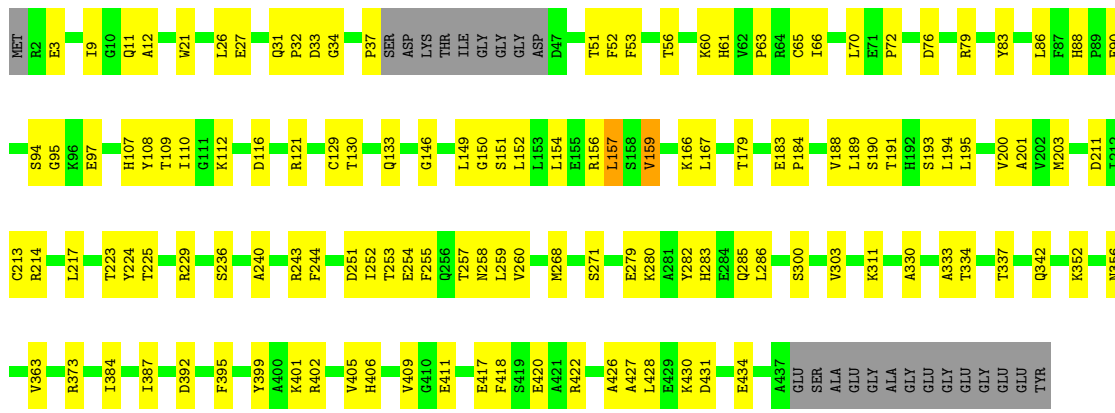




● Molecule 2: Tubulin alpha

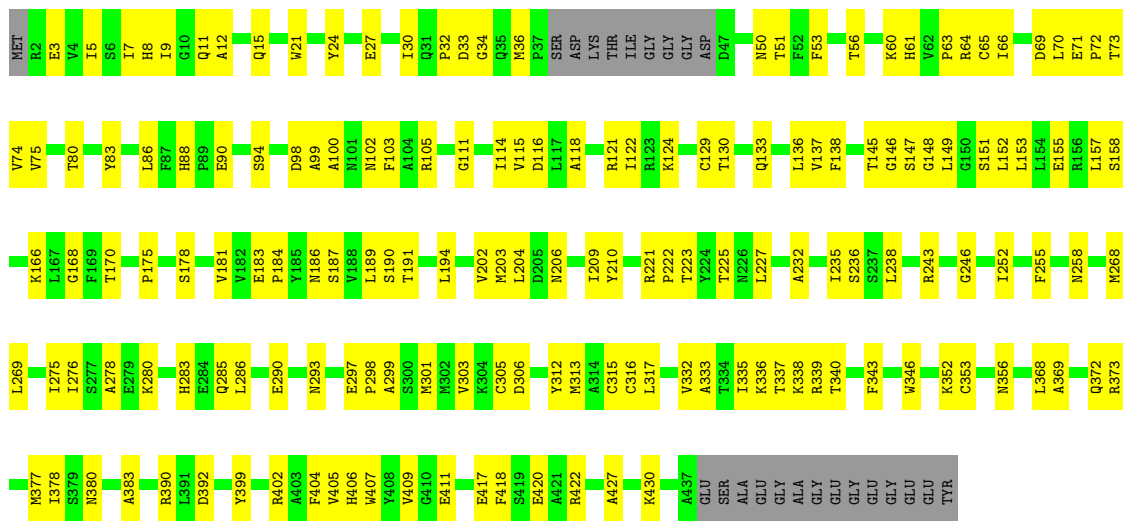


● Molecule 2: Tubulin alpha



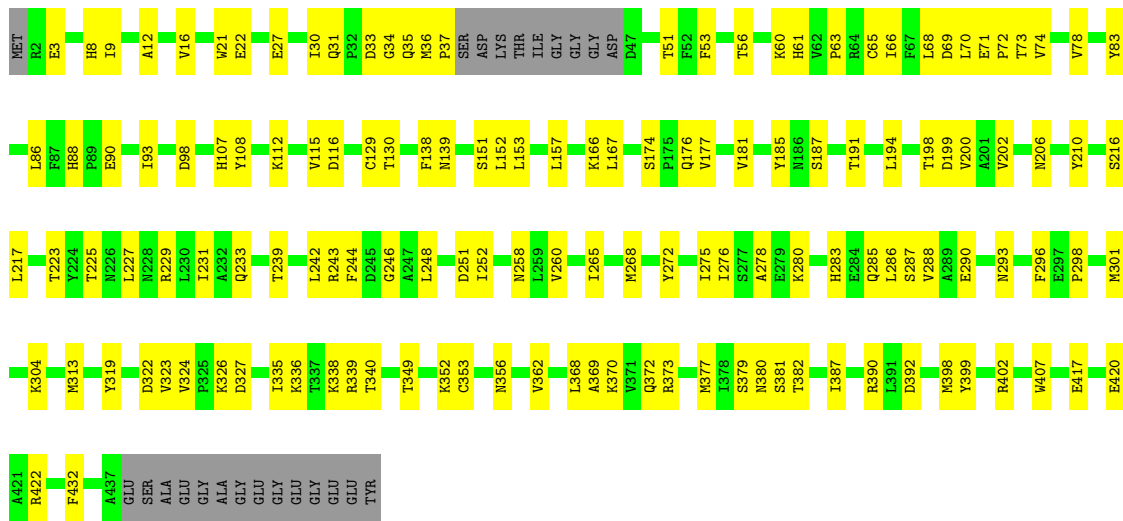
• Molecule 2: Tubulin alpha

Chain Y9:  58% 36% 5%



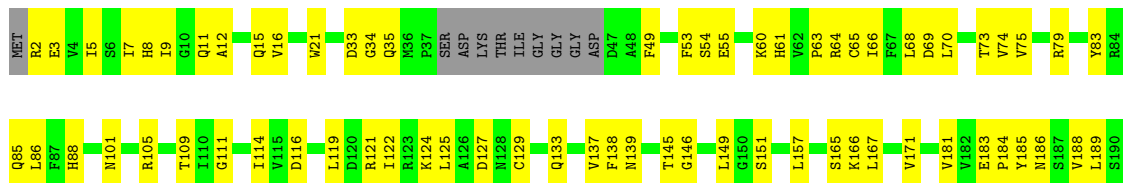
• Molecule 2: Tubulin alpha

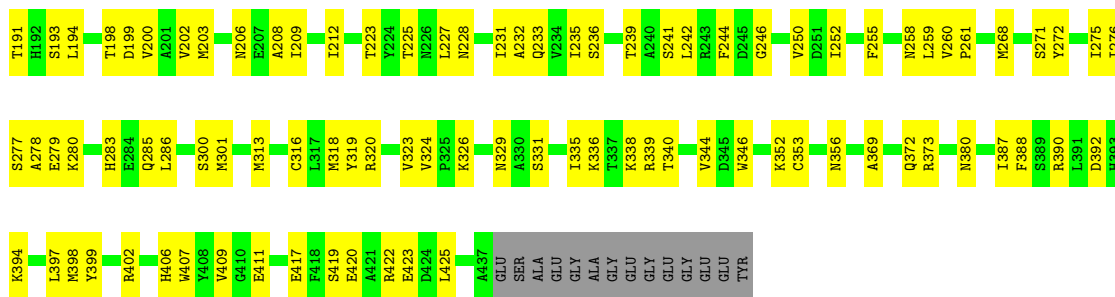
Chain Z1:  64% 31% 5%



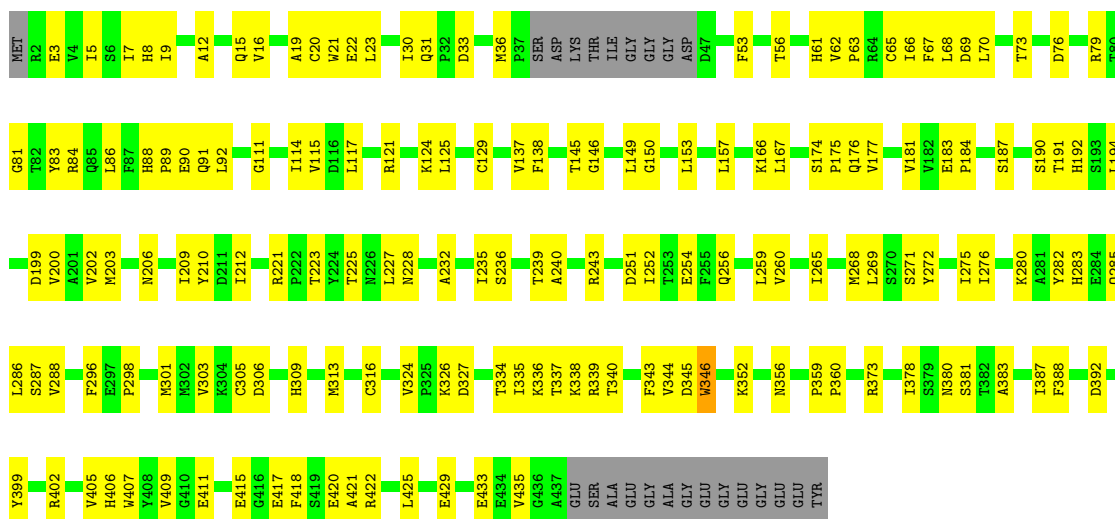
• Molecule 2: Tubulin alpha

Chain Z3:  60% 35% 5%

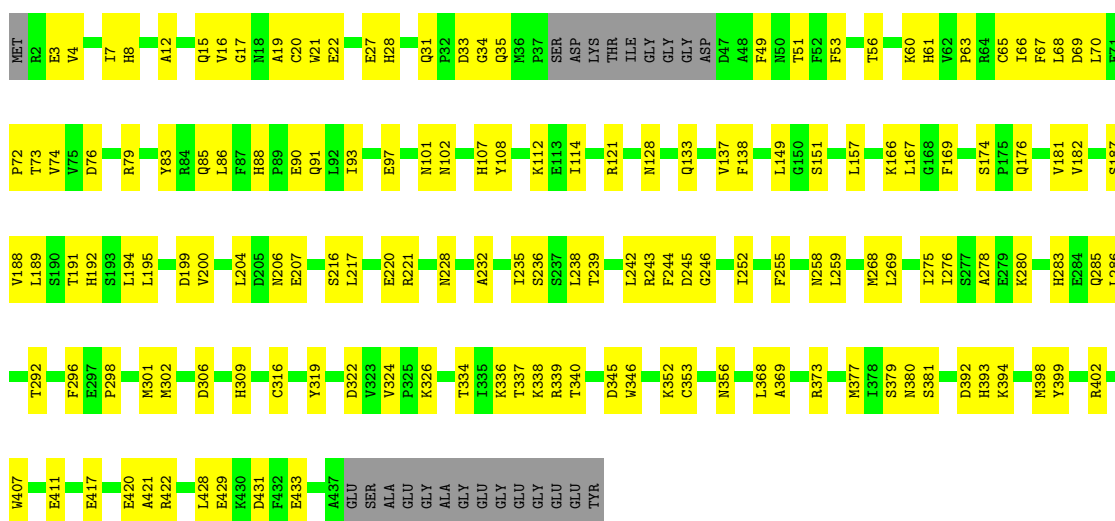




• Molecule 2: Tubulin alpha

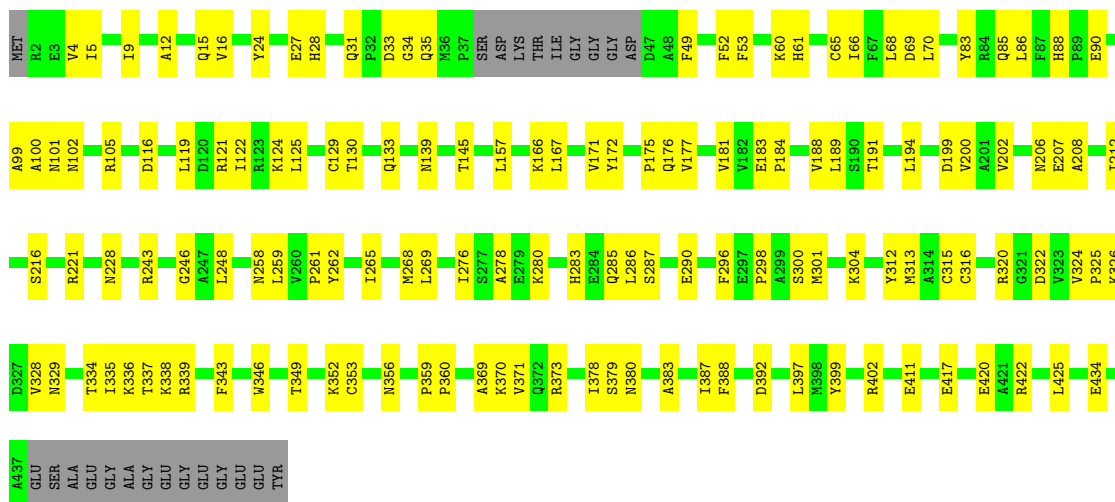


• Molecule 2: Tubulin alpha



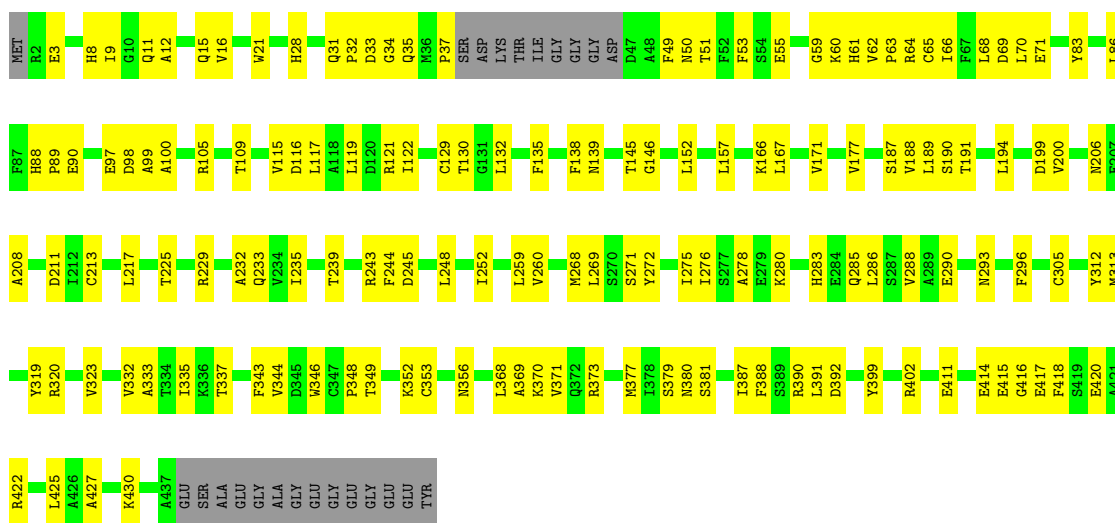
• Molecule 2: Tubulin alpha

Chain Z9: 64% 30% 5%



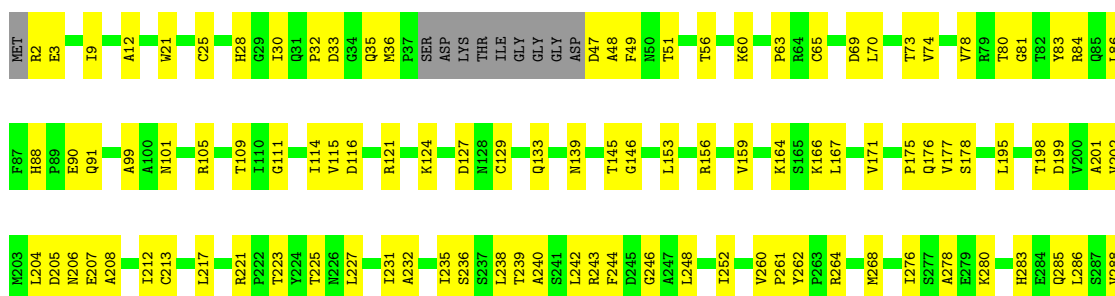
• Molecule 2: Tubulin alpha

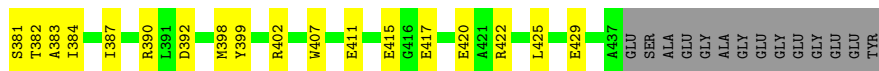
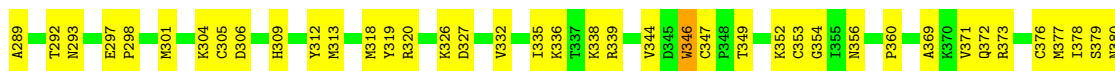
Chain 0B: 62% 33% 5%



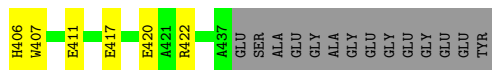
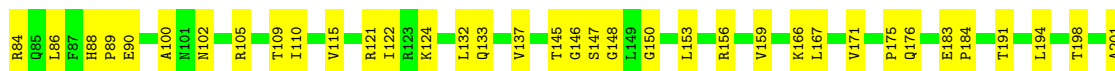
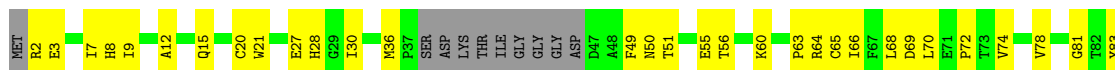
• Molecule 2: Tubulin alpha

Chain 0F: 59% 35% 5%

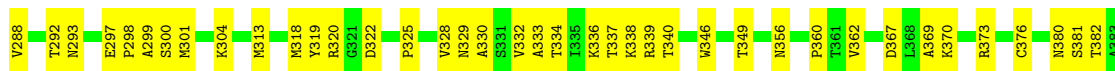
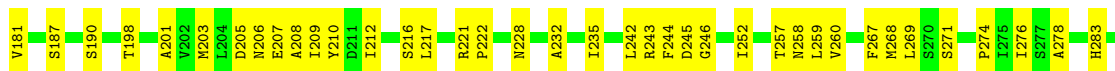
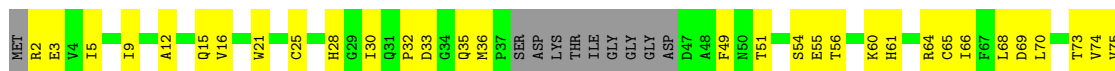




• Molecule 2: Tubulin alpha

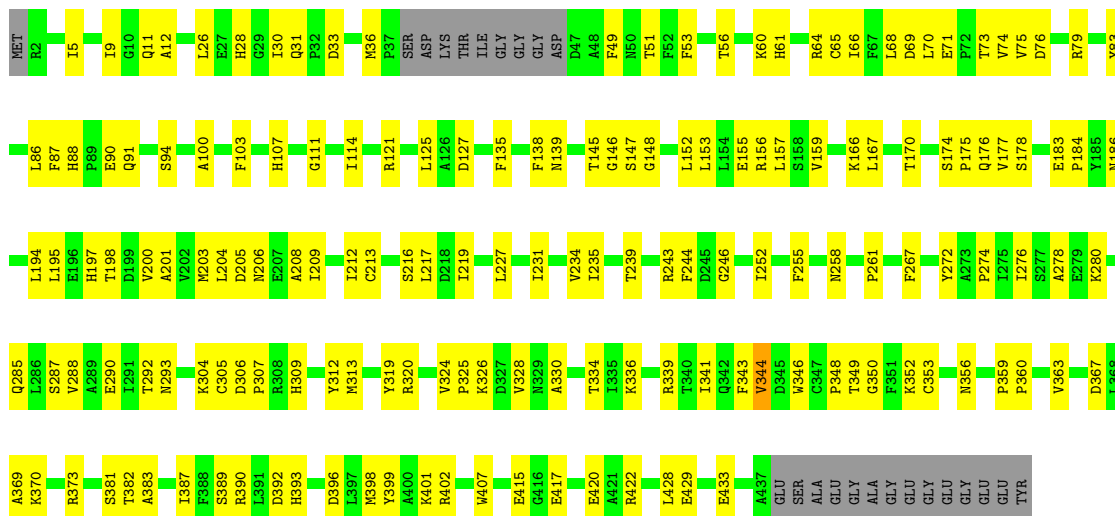


• Molecule 2: Tubulin alpha

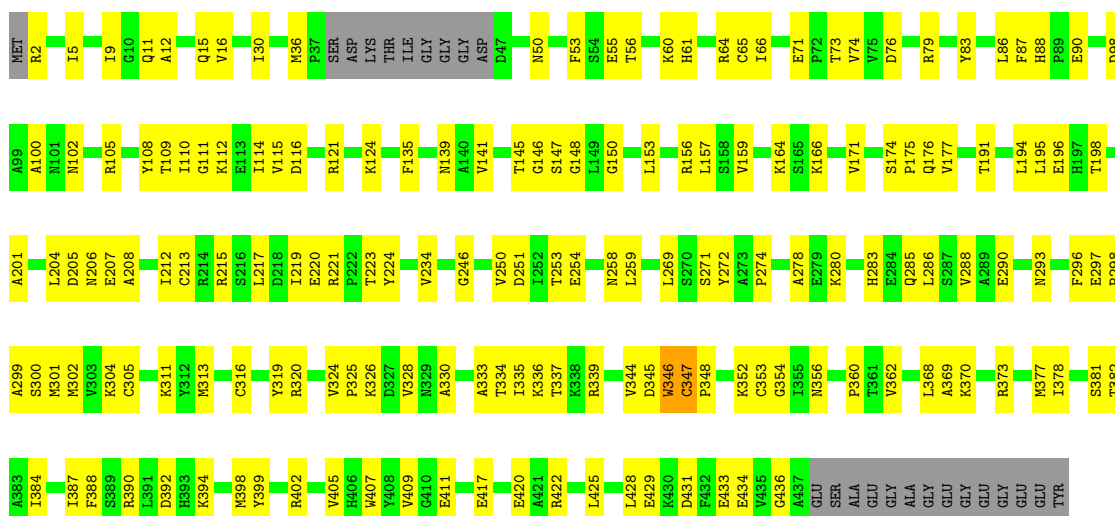


• Molecule 2: Tubulin alpha

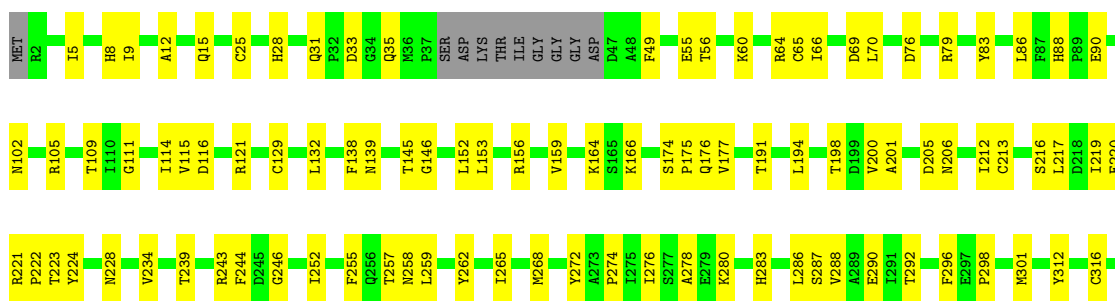


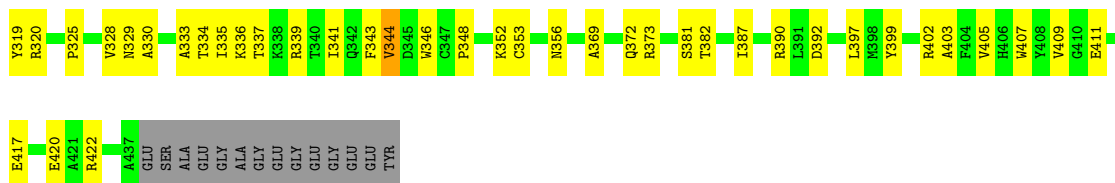


● Molecule 2: Tubulin alpha

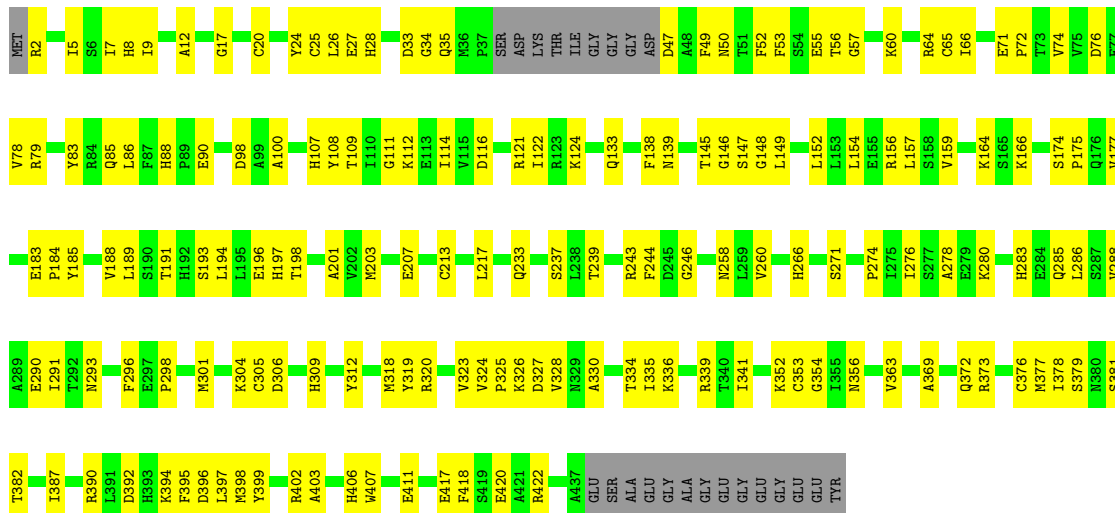


● Molecule 2: Tubulin alpha

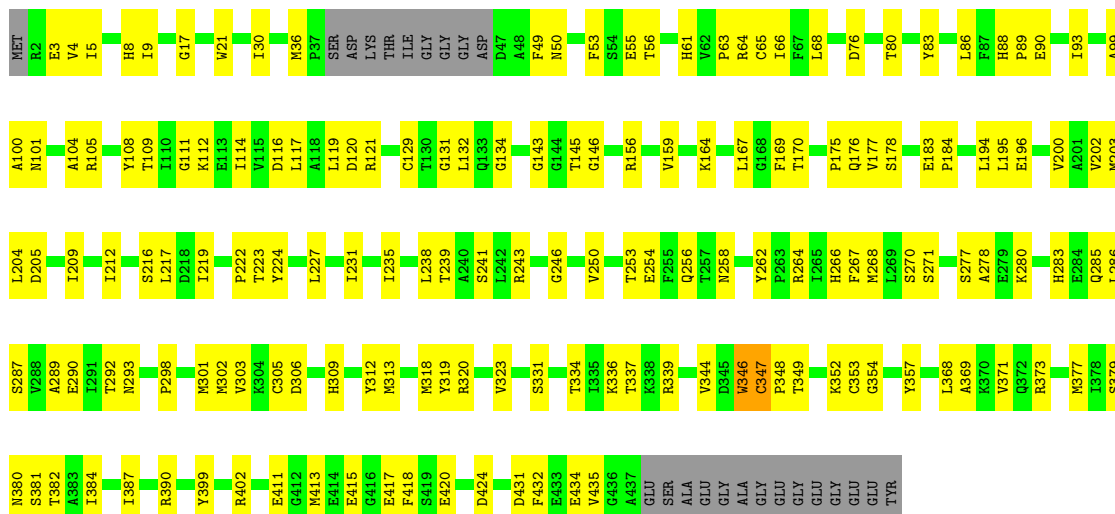




• Molecule 2: Tubulin alpha

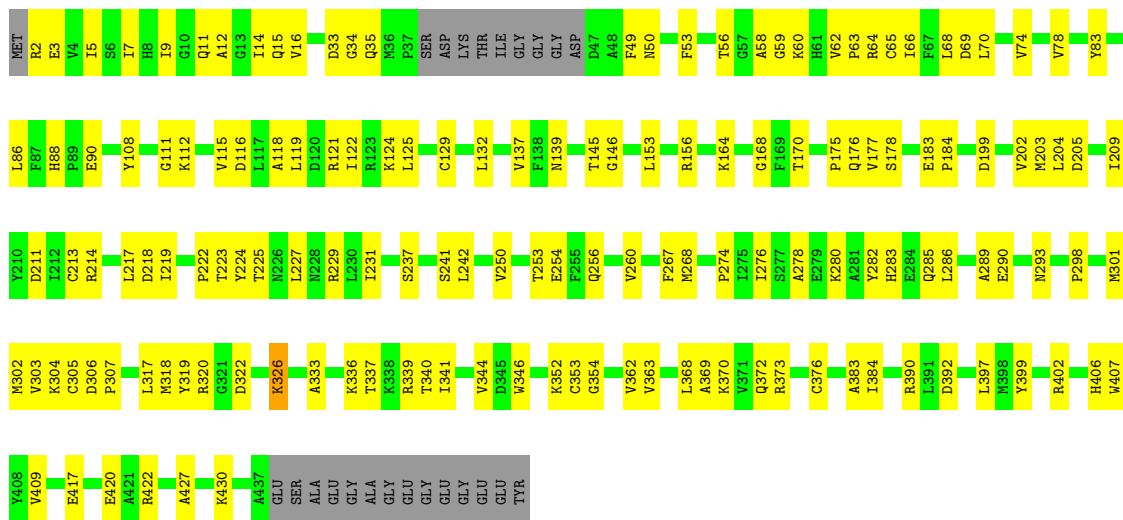


• Molecule 2: Tubulin alpha

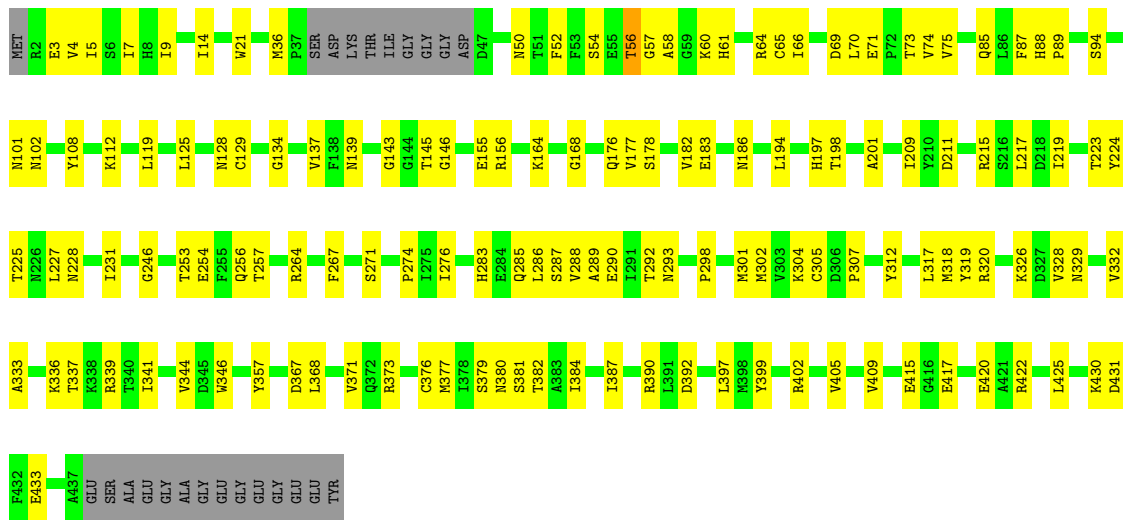


• Molecule 2: Tubulin alpha

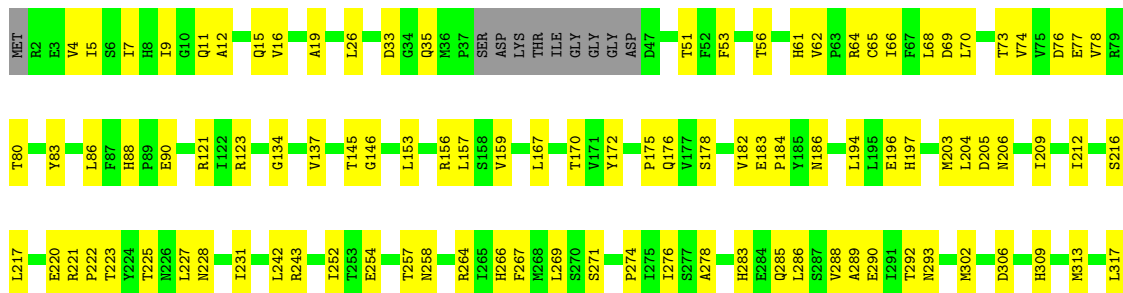




• Molecule 2: Tubulin alpha

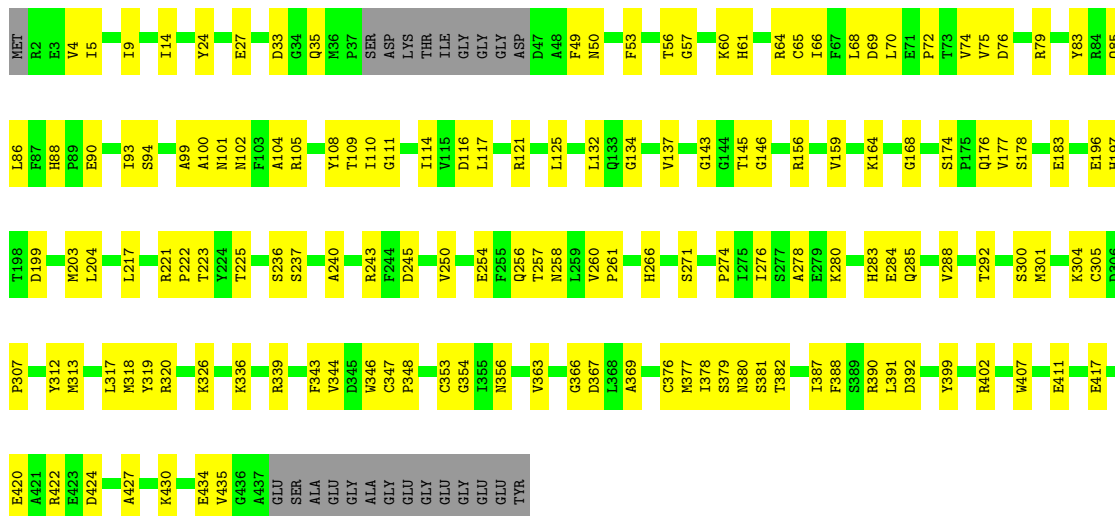


• Molecule 2: Tubulin alpha

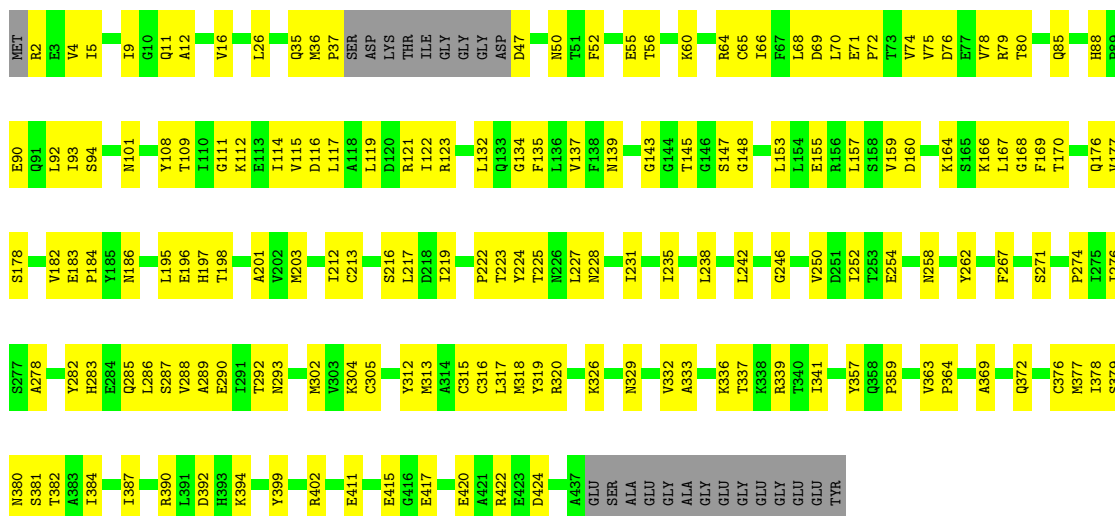




• Molecule 2: Tubulin alpha

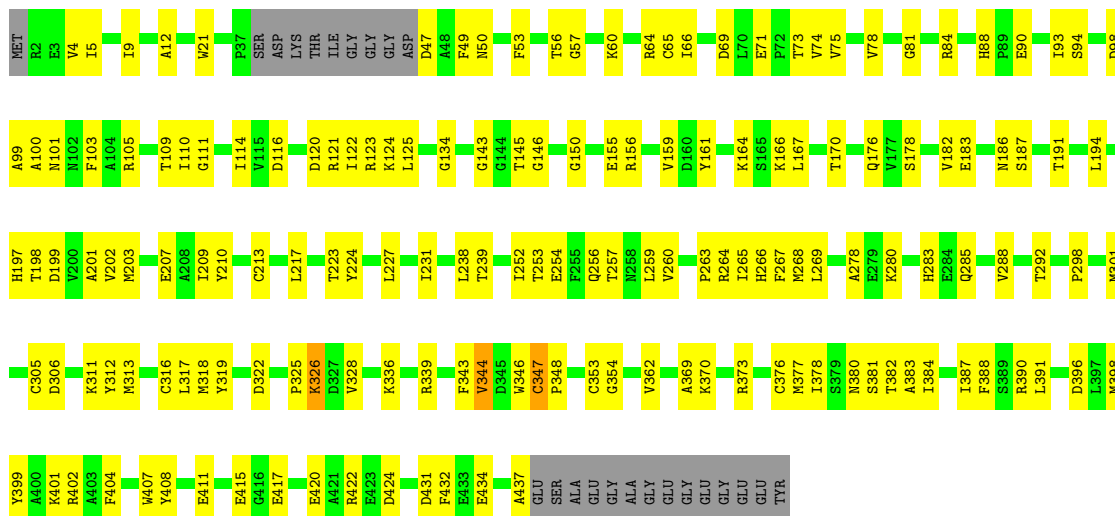


• Molecule 2: Tubulin alpha

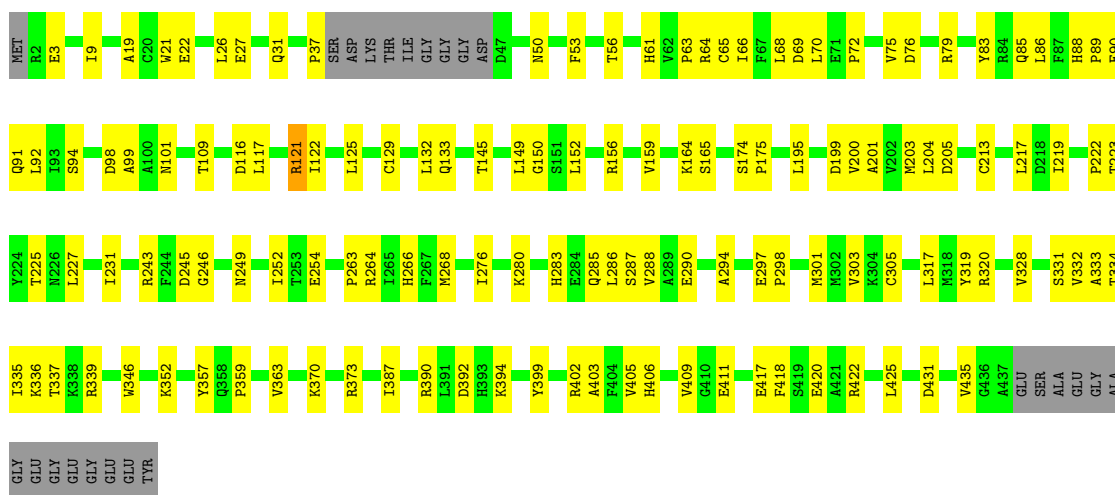


• Molecule 2: Tubulin alpha

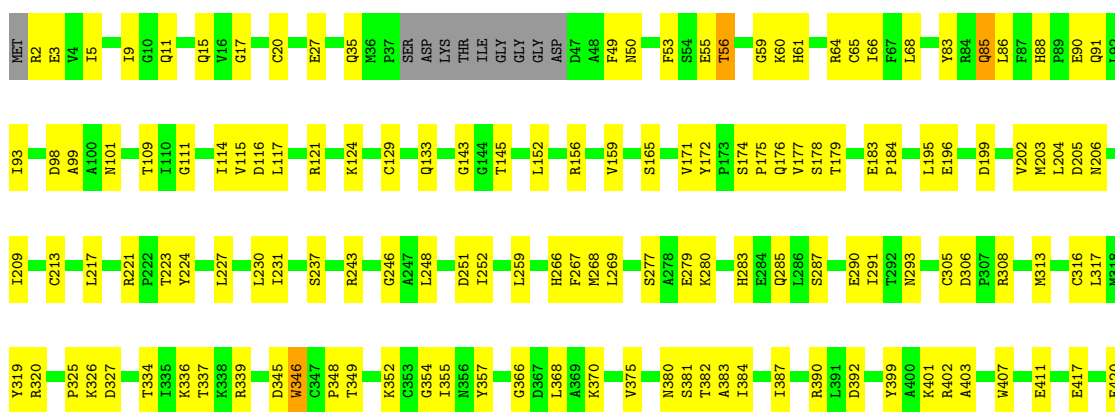


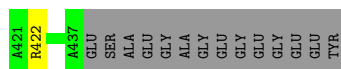


• Molecule 2: Tubulin alpha

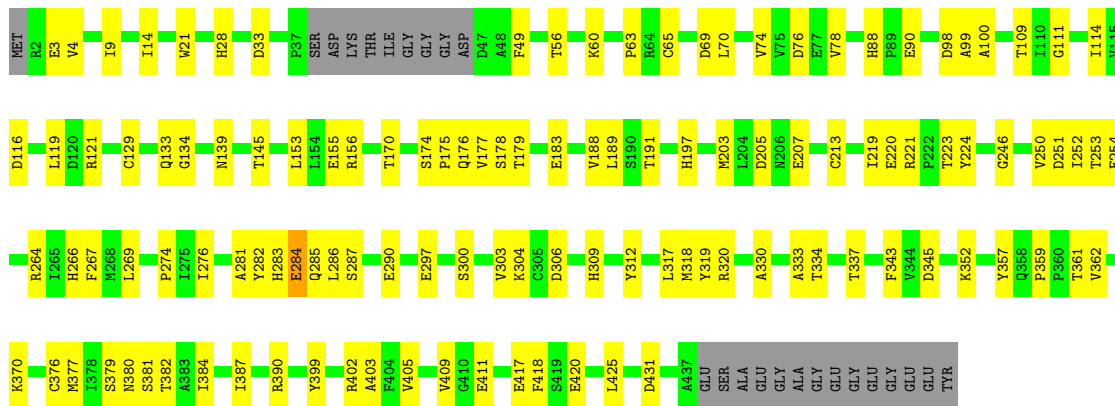


• Molecule 2: Tubulin alpha

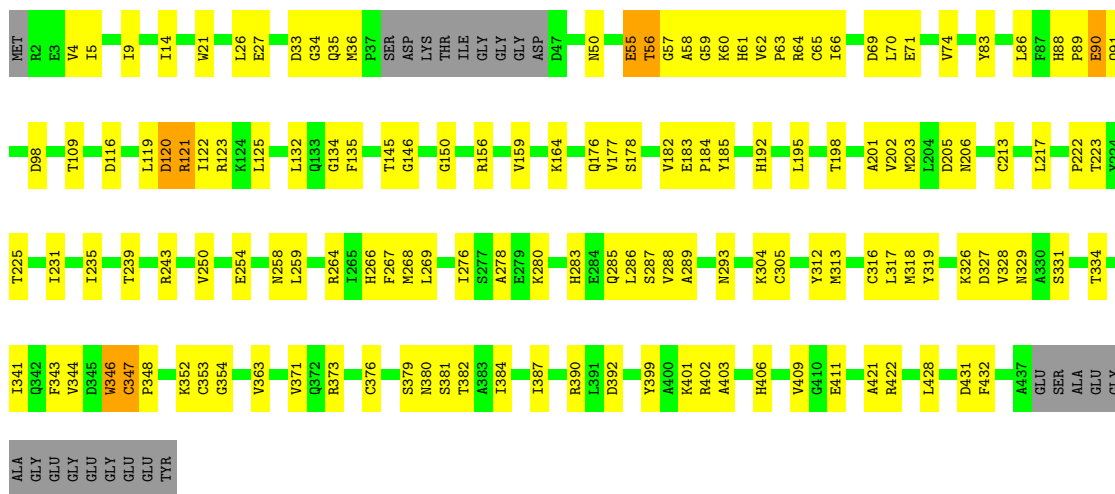




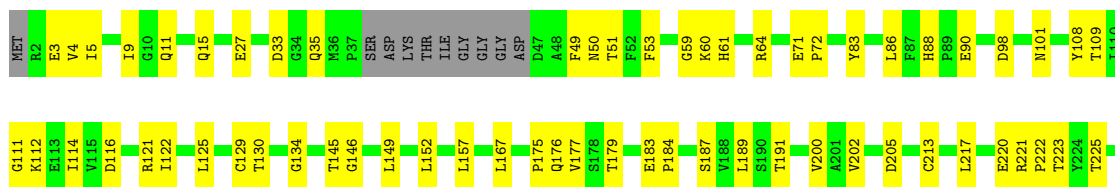
• Molecule 2: Tubulin alpha

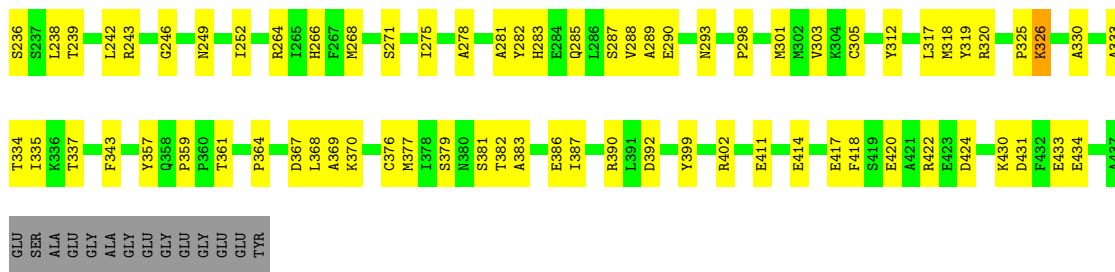


• Molecule 2: Tubulin alpha

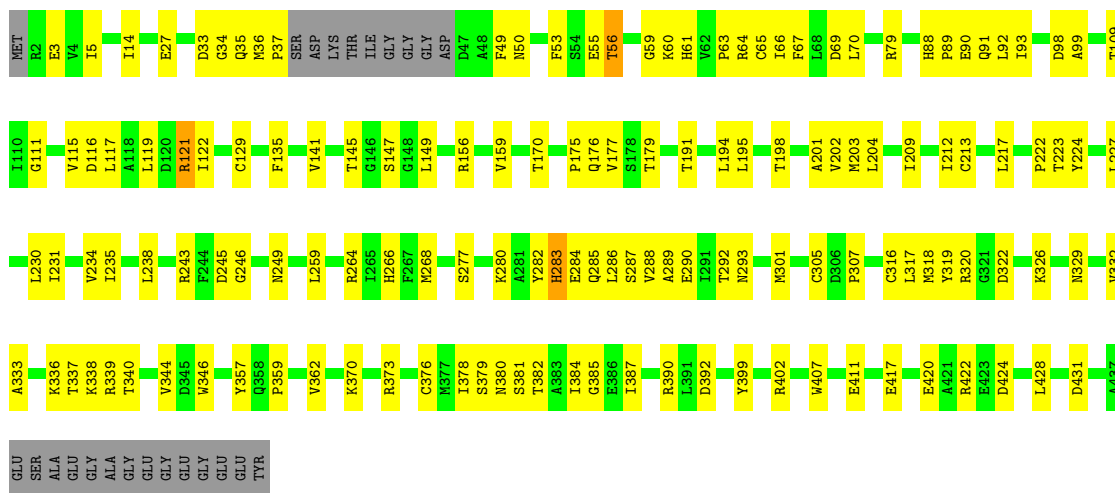


• Molecule 2: Tubulin alpha

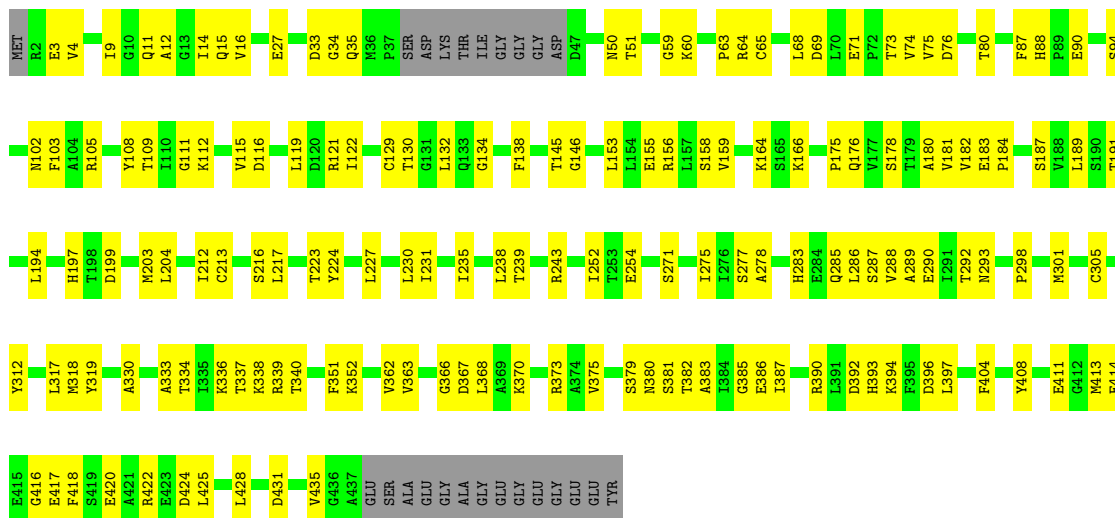




• Molecule 2: Tubulin alpha

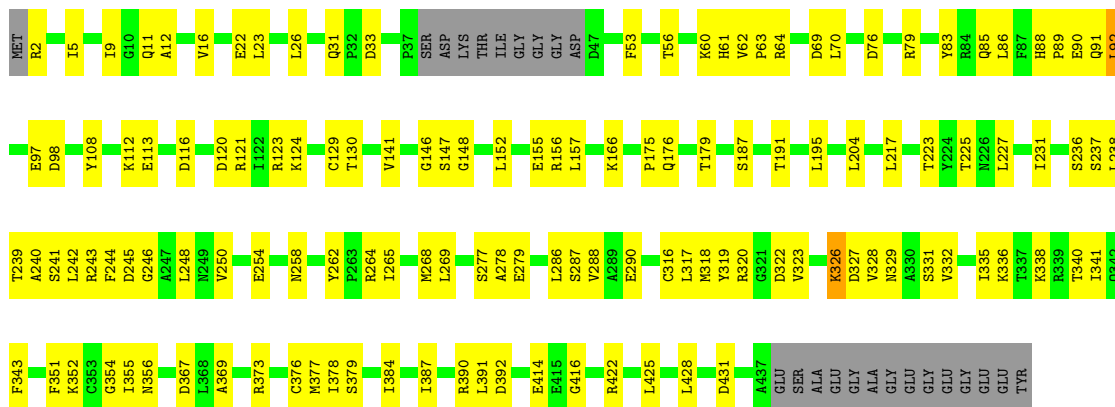


• Molecule 2: Tubulin alpha

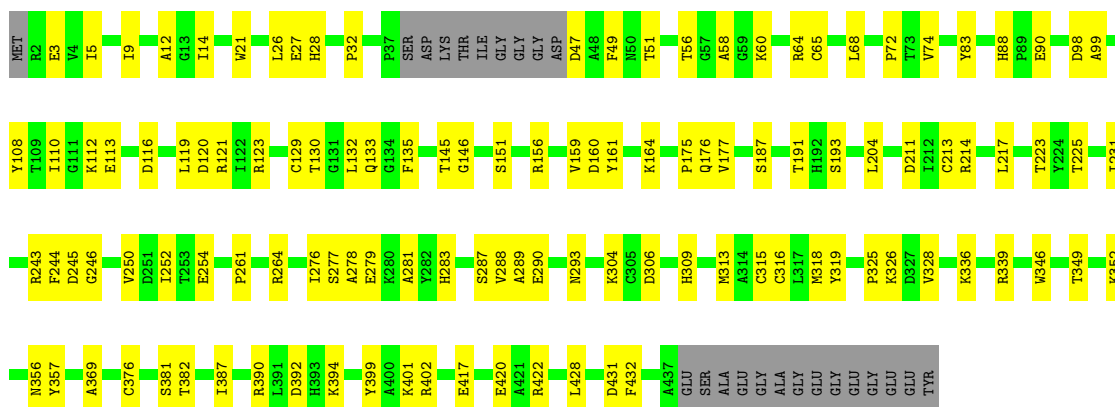


• Molecule 2: Tubulin alpha

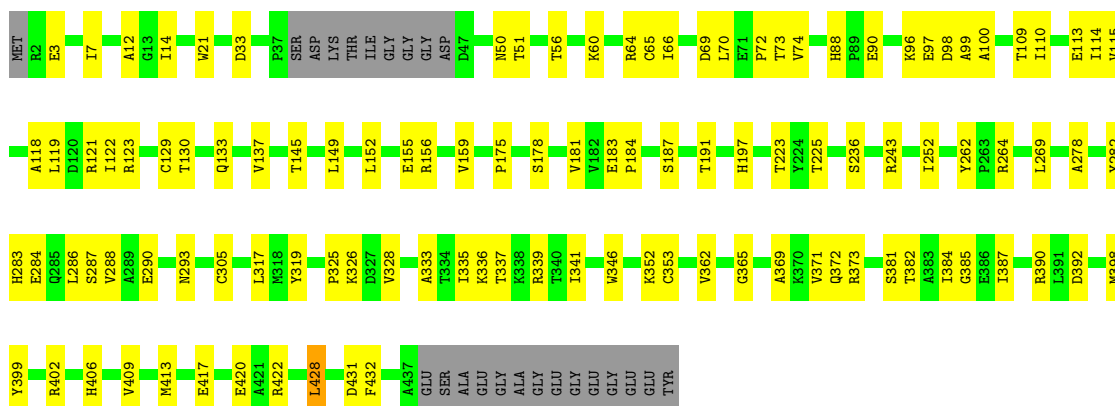




• Molecule 2: Tubulin alpha

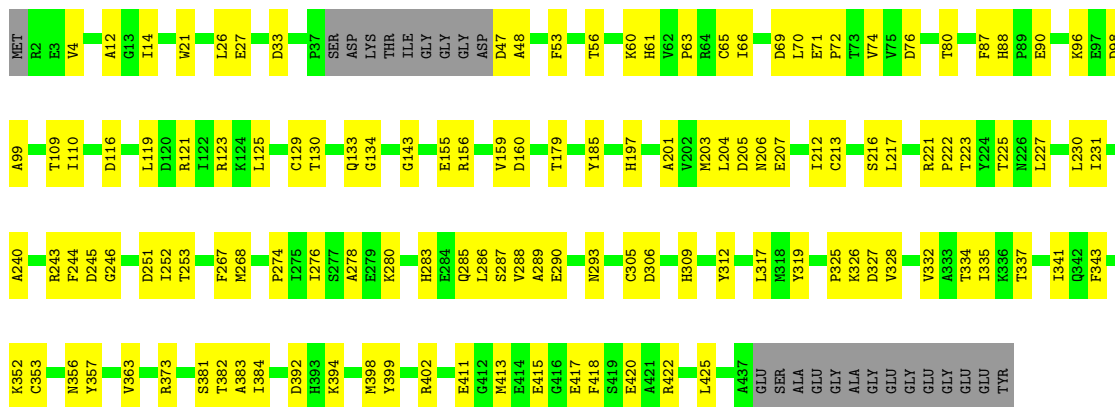


• Molecule 2: Tubulin alpha

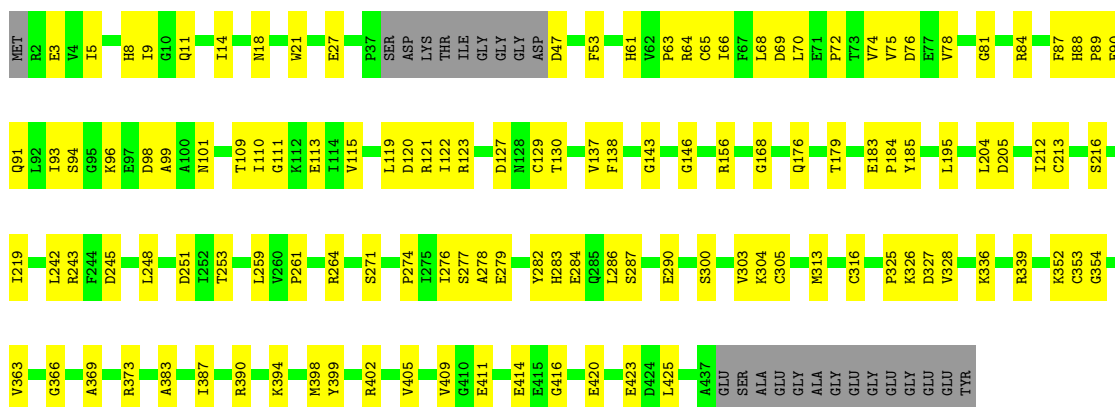


• Molecule 2: Tubulin alpha

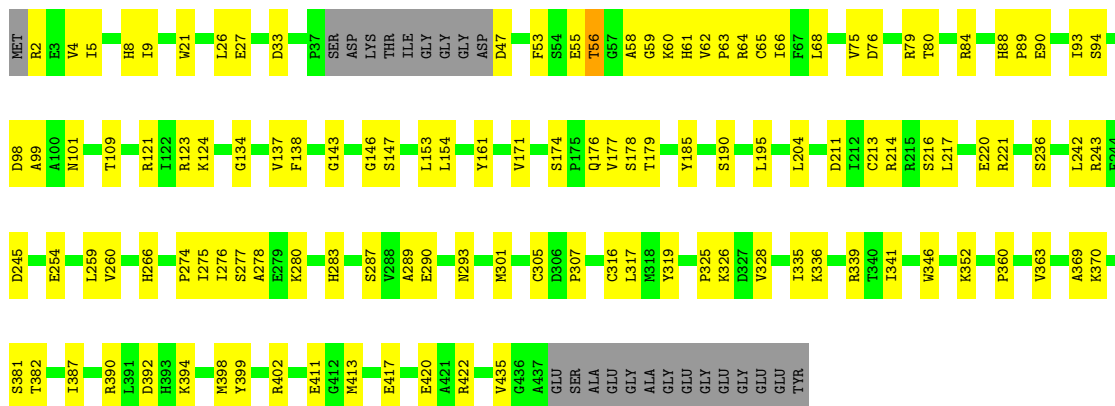




● Molecule 2: Tubulin alpha

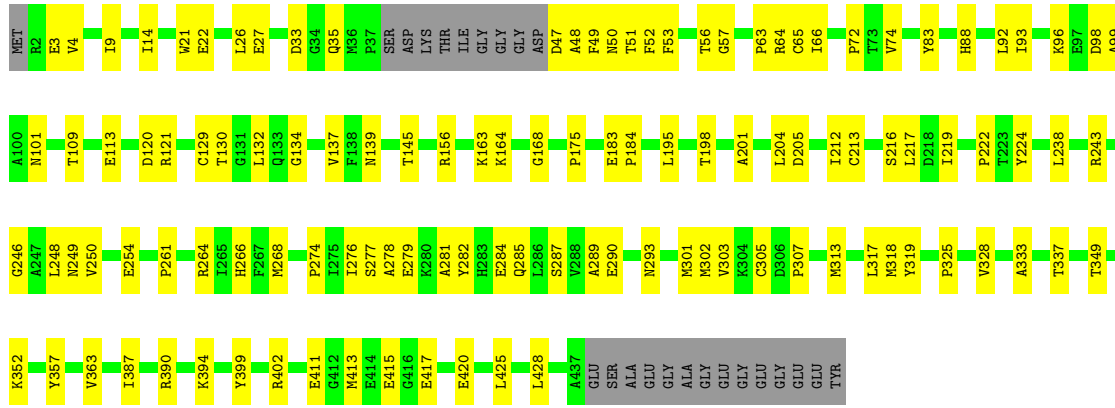


● Molecule 2: Tubulin alpha

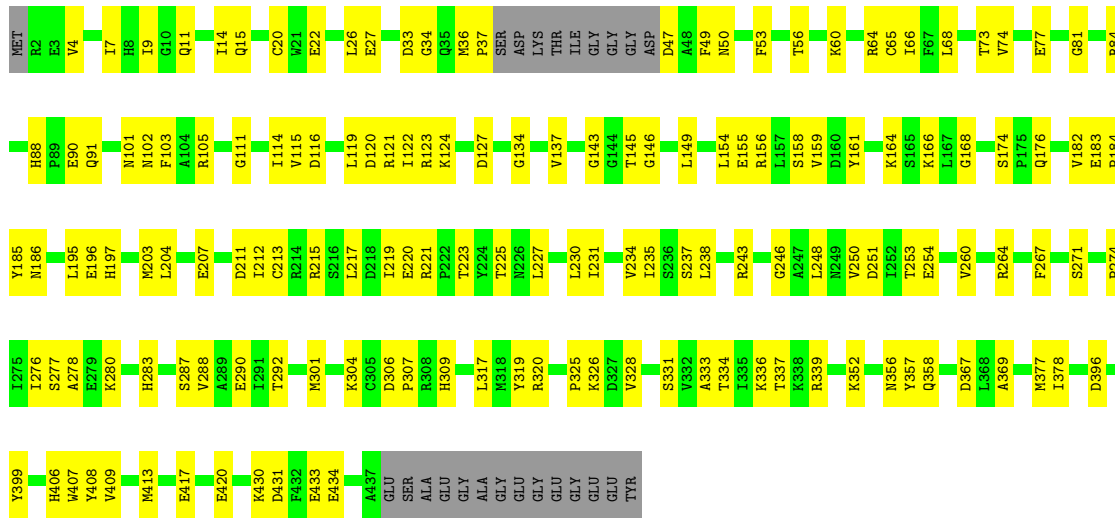


● Molecule 2: Tubulin alpha

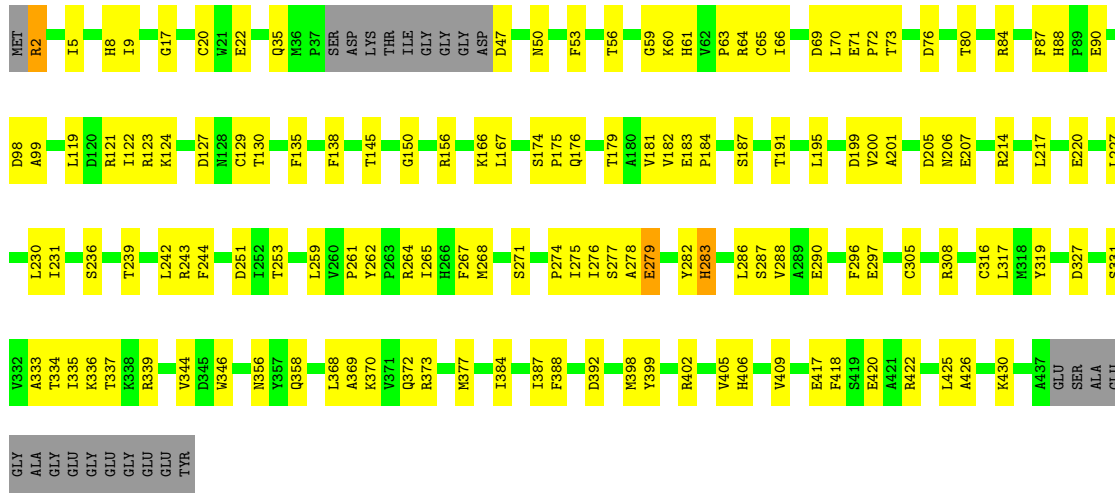




• Molecule 2: Tubulin alpha

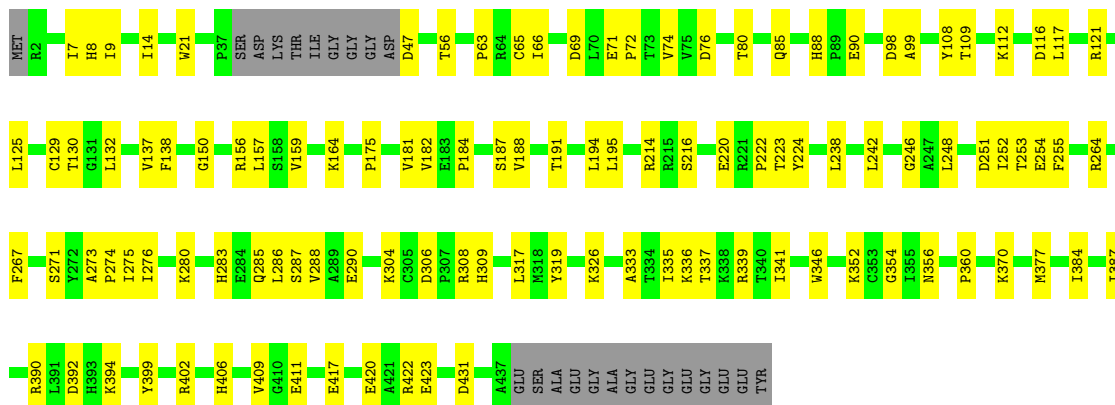


• Molecule 2: Tubulin alpha



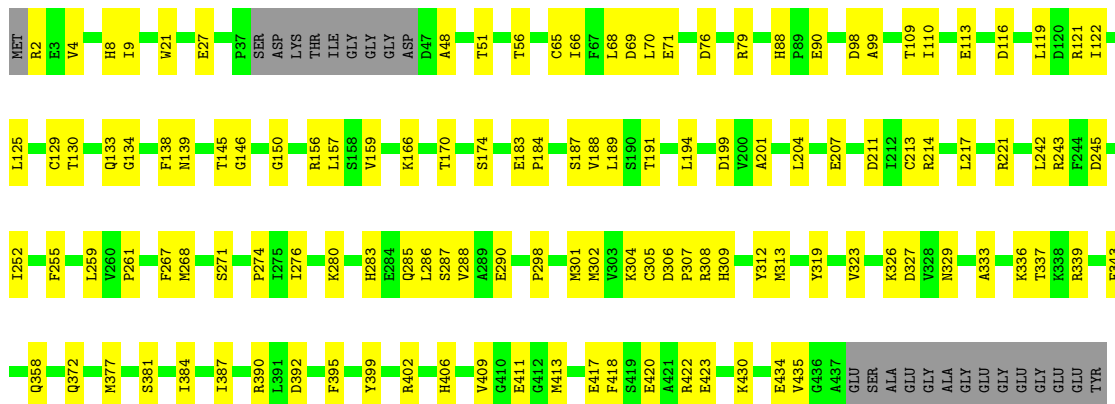
• Molecule 2: Tubulin alpha

Chain 2R:  70% 25% 5%



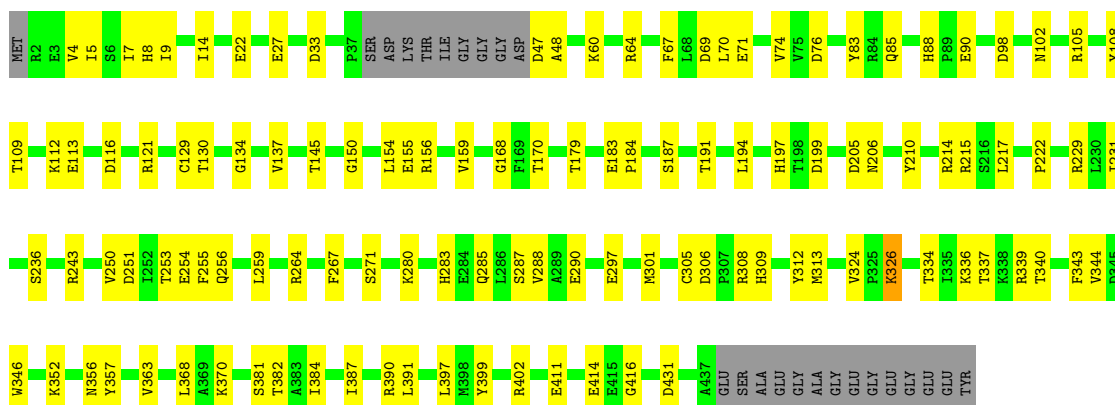
• Molecule 2: Tubulin alpha

Chain 2T:  67% 27% 5%



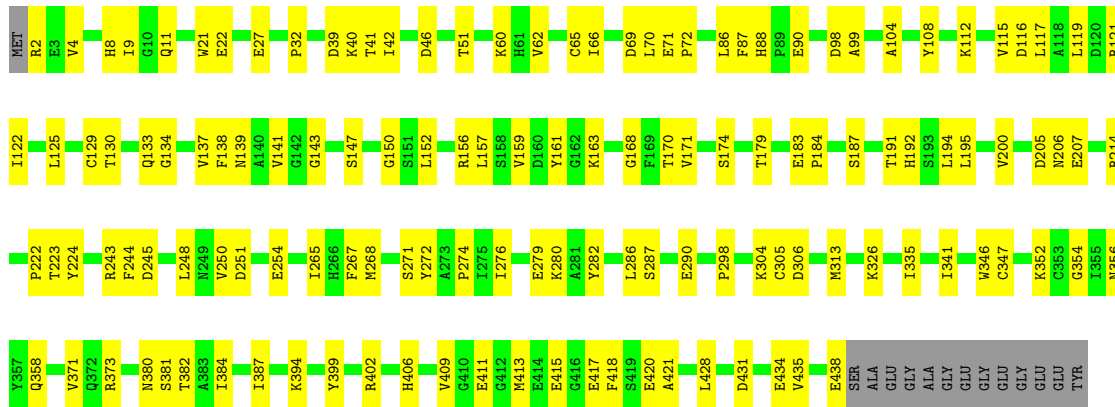
• Molecule 2: Tubulin alpha

Chain 2V:  69% 25% 5%



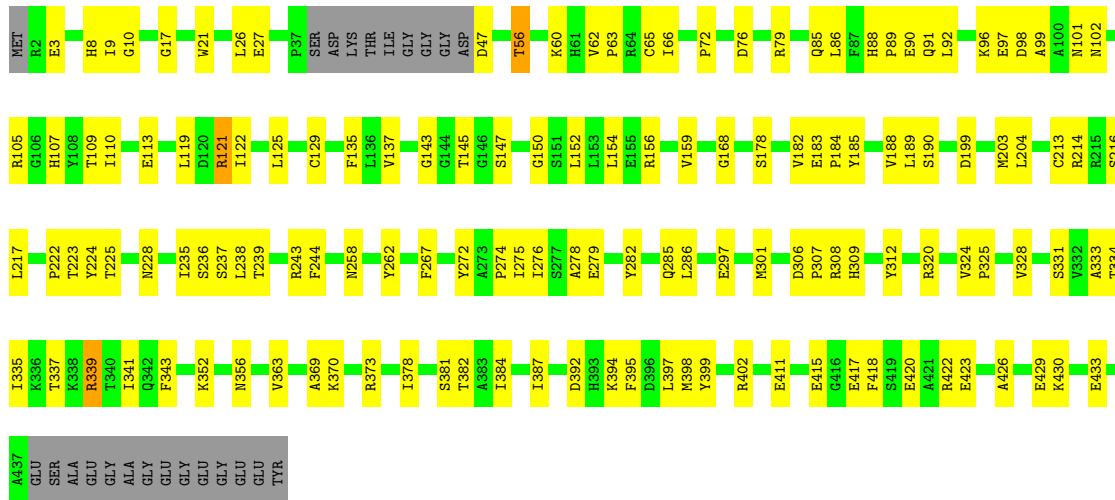
• Molecule 2: Tubulin alpha

Chain 2X:



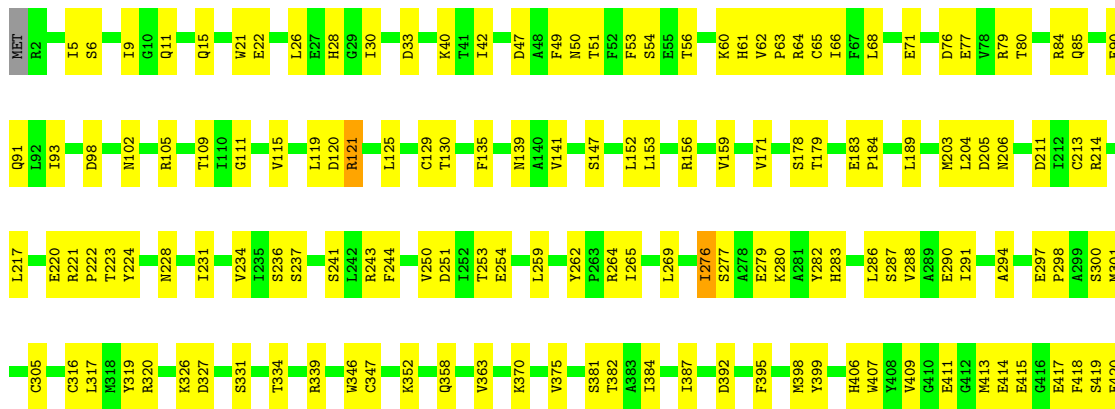
• Molecule 2: Tubulin alpha

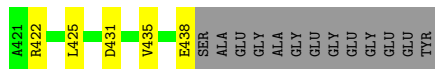
Chain 2Z:



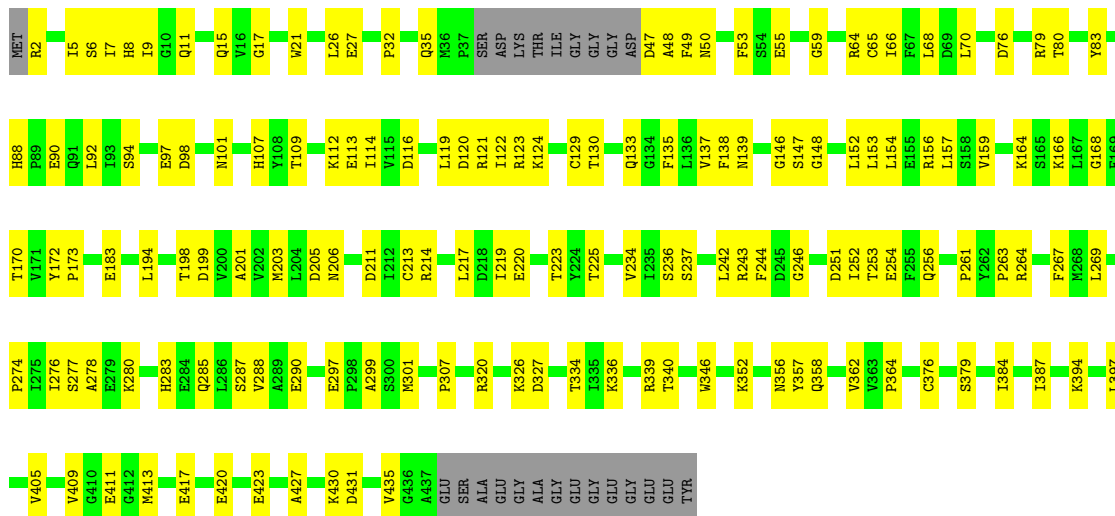
• Molecule 2: Tubulin alpha

Chain 3B:

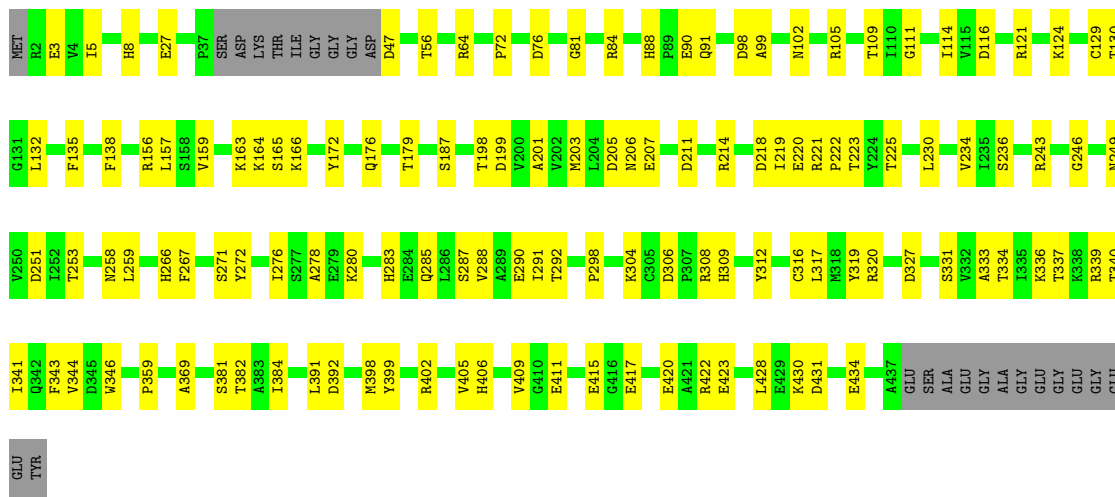




• Molecule 2: Tubulin alpha

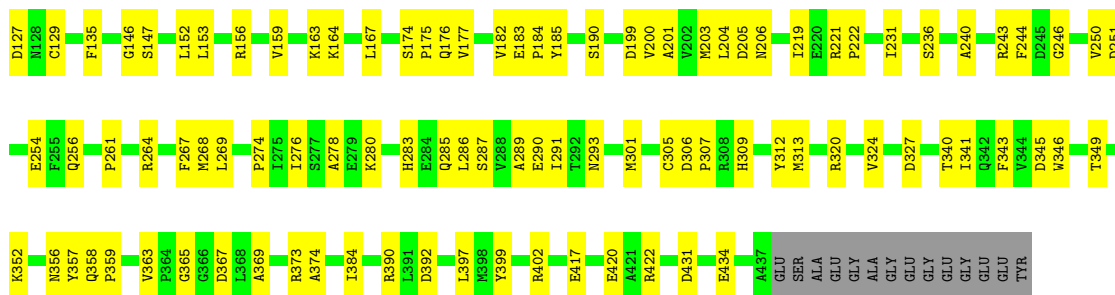


• Molecule 2: Tubulin alpha



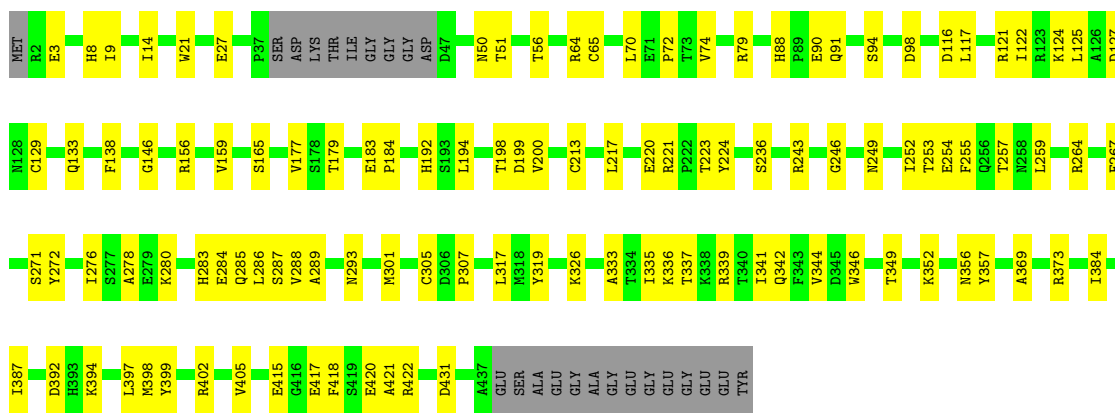
• Molecule 2: Tubulin alpha





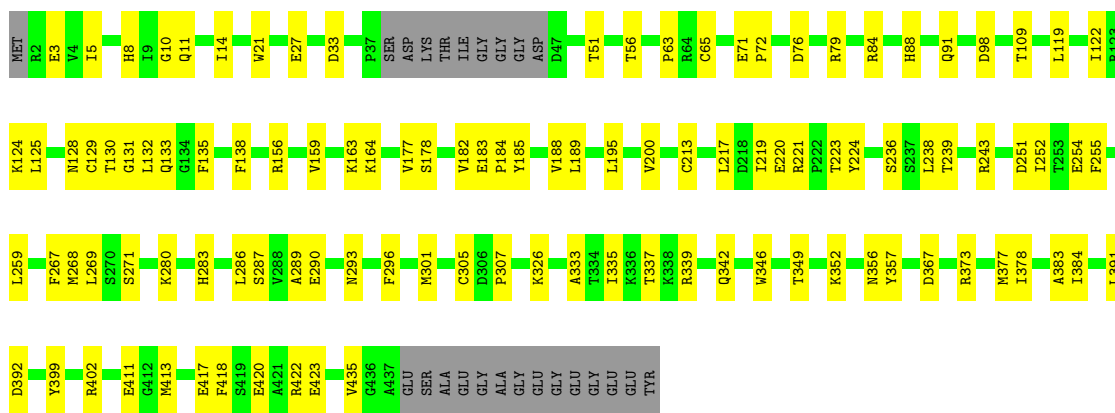
• Molecule 2: Tubulin alpha

Chain 3J: 70% 25% 5%



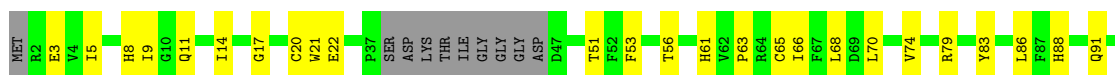
• Molecule 2: Tubulin alpha

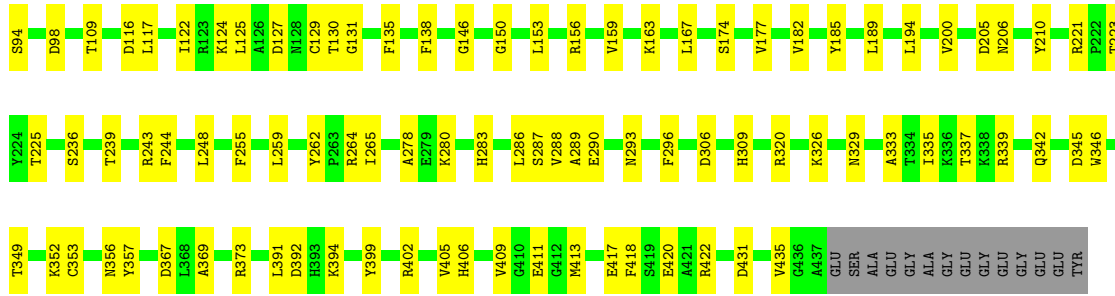
Chain 3L: 71% 24% 5%



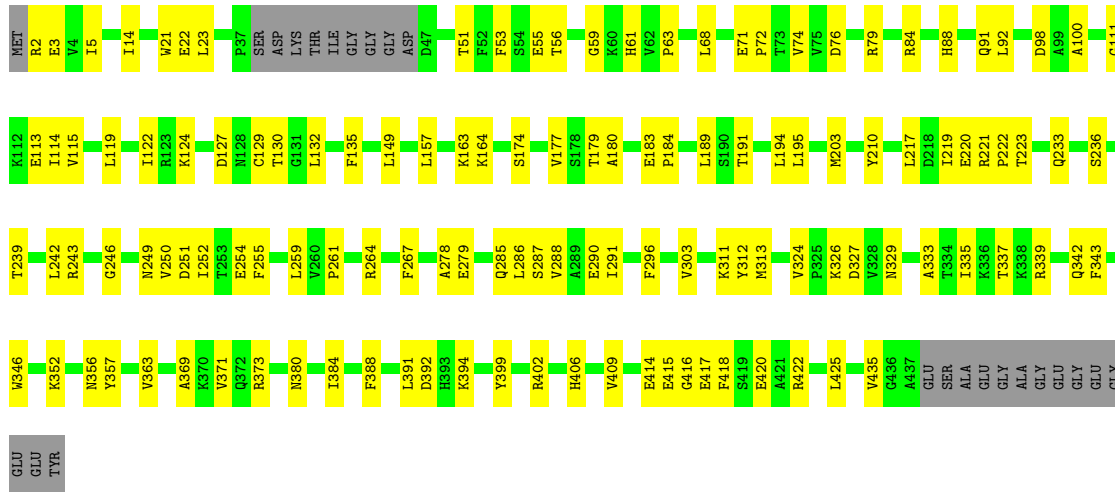
• Molecule 2: Tubulin alpha

Chain 3N: 69% 25% 5%

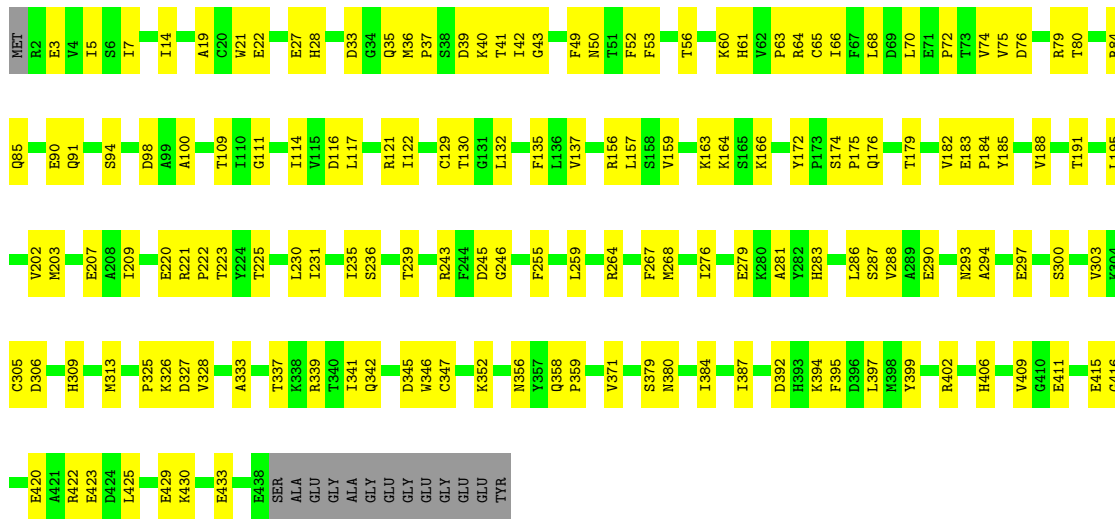




• Molecule 2: Tubulin alpha

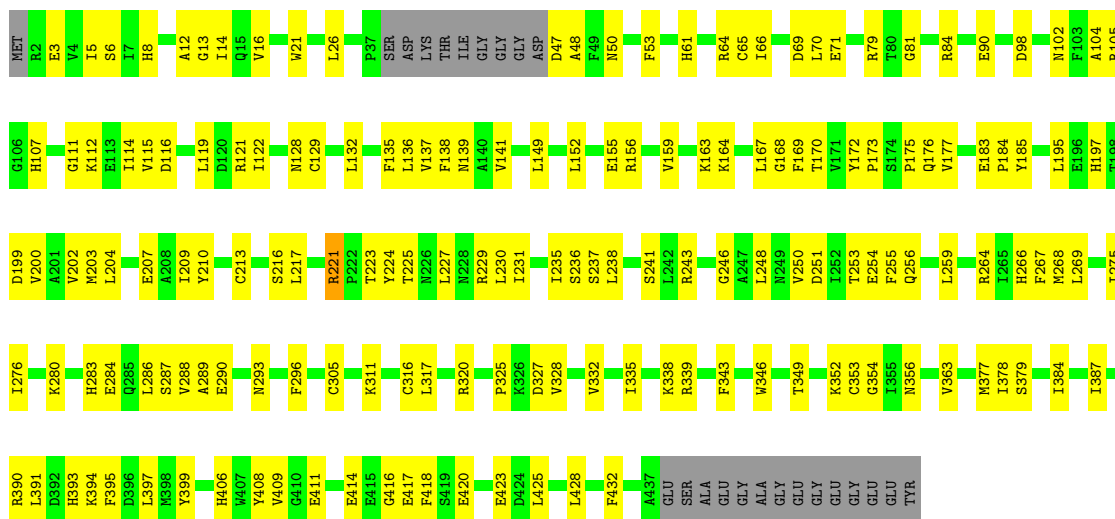


• Molecule 2: Tubulin alpha



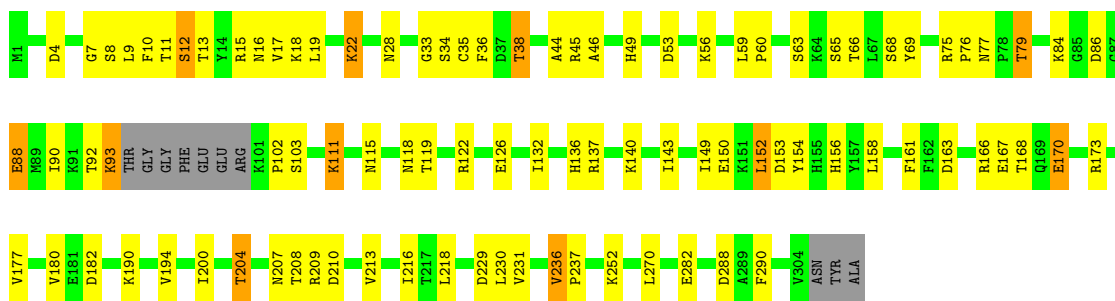
• Molecule 2: Tubulin alpha

Chain 3T: 58% 36% 5%



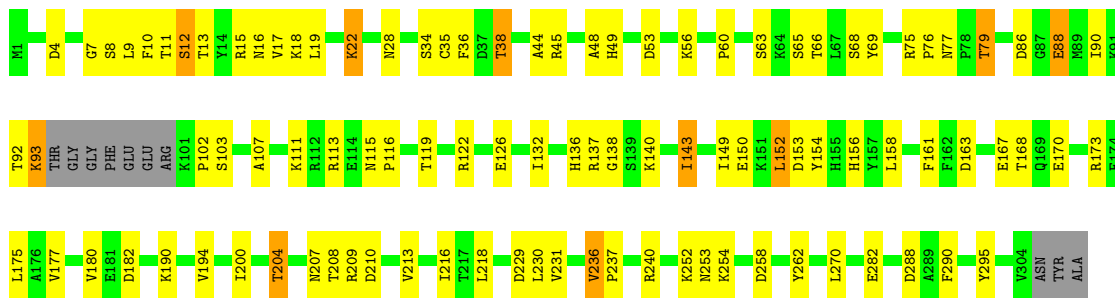
• Molecule 3: PACRG

Chain 3V: 66% 27%



• Molecule 3: PACRG

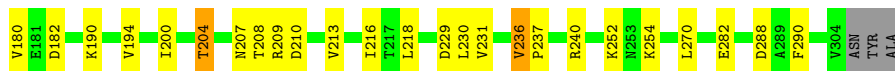
Chain 3X: 64% 29%



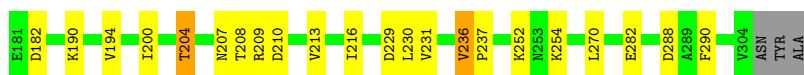
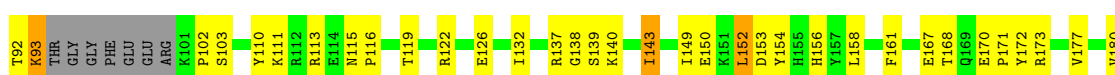
• Molecule 3: PACRG

Chain 3Z: 65% 29%

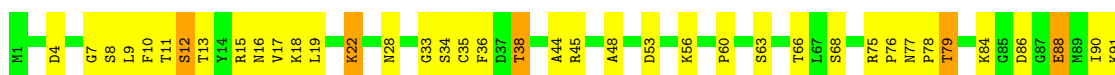




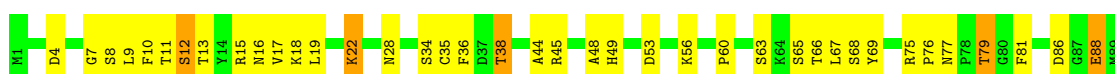
• Molecule 3: PACRG



• Molecule 3: PACRG



• Molecule 3: PACRG

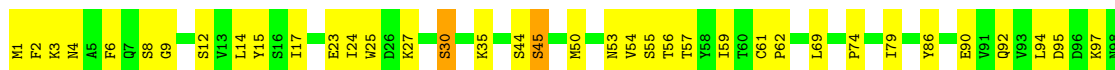


• Molecule 3: PACRG

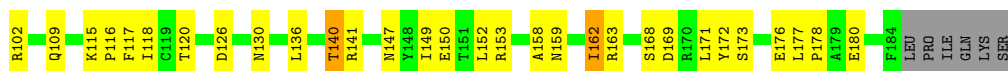




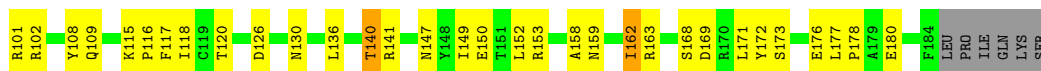
• Molecule 4: FAP20



• Molecule 4: FAP20



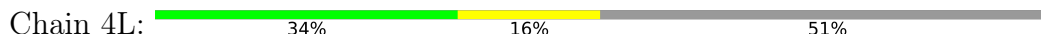
• Molecule 4: FAP20

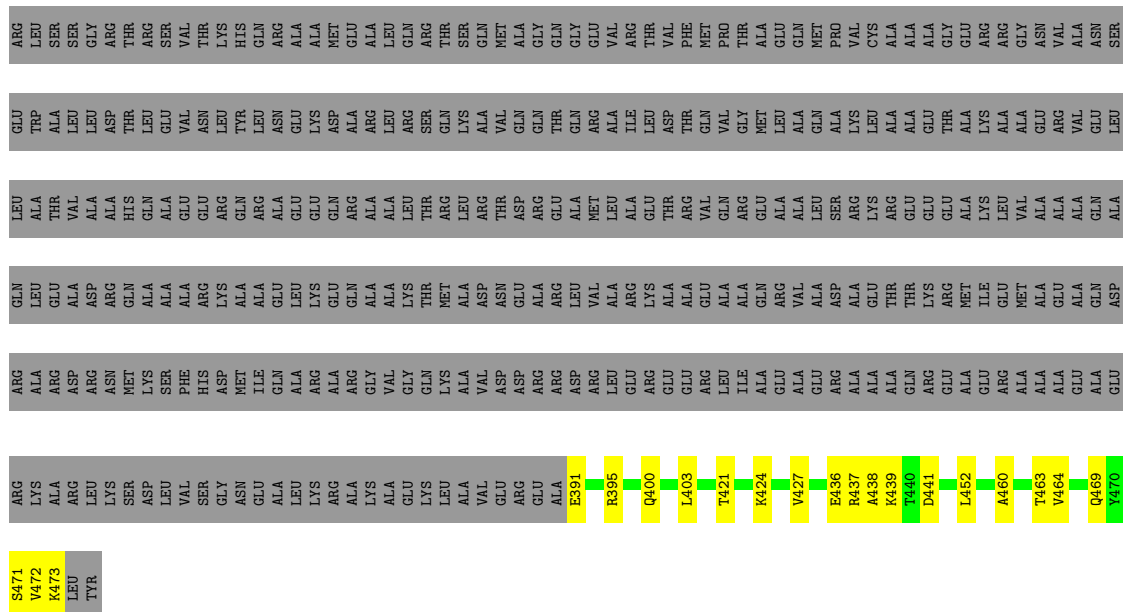


• Molecule 4: FAP20

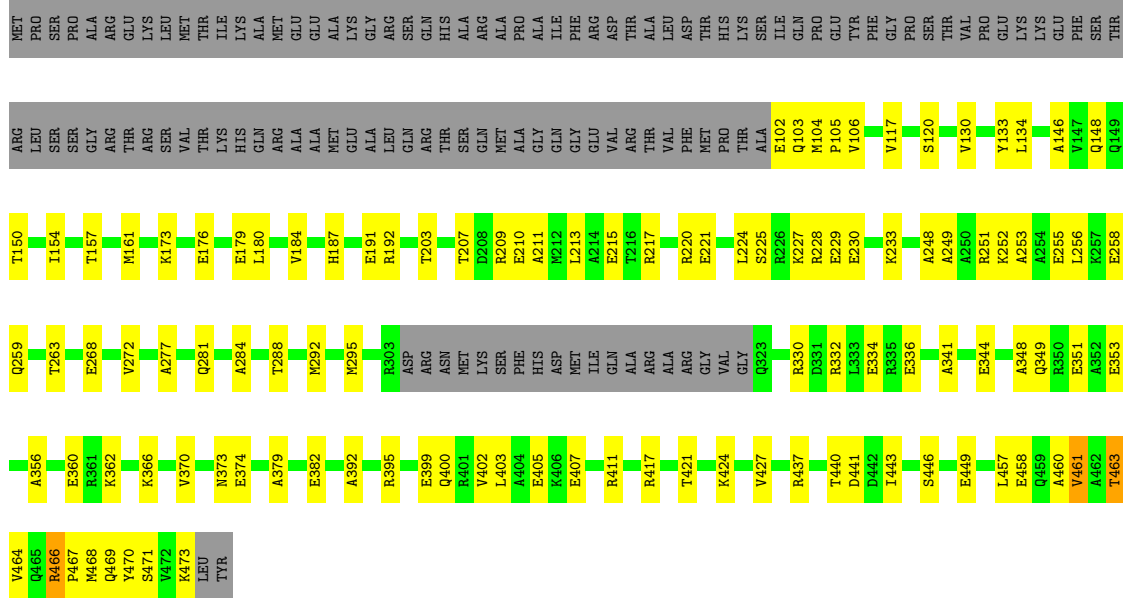


• Molecule 5: FAP53

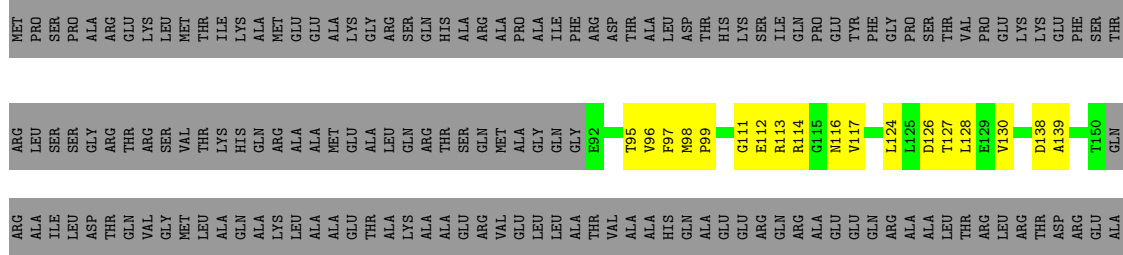


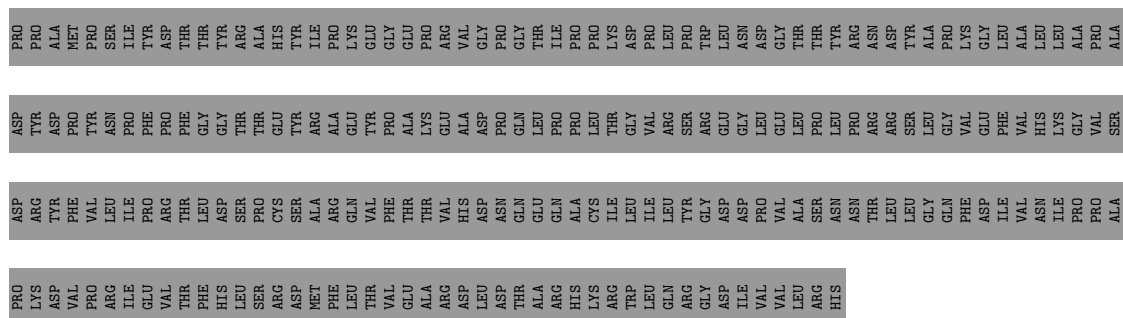


• Molecule 8: FAP112

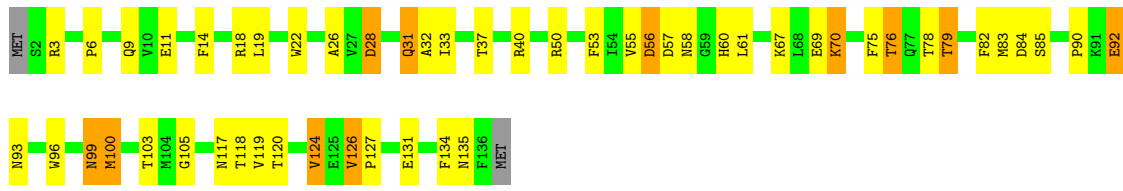


• Molecule 8: FAP112

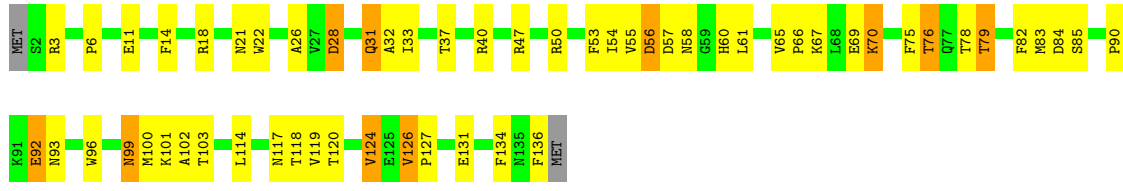




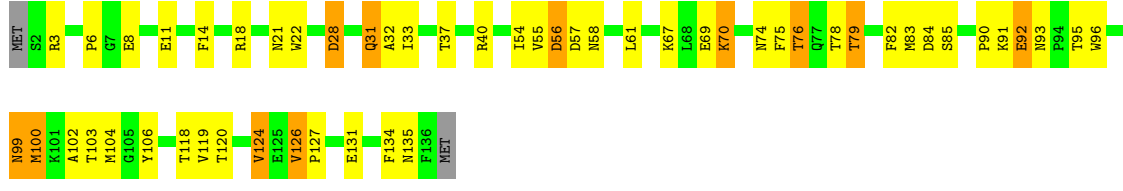
● Molecule 13: FAP126



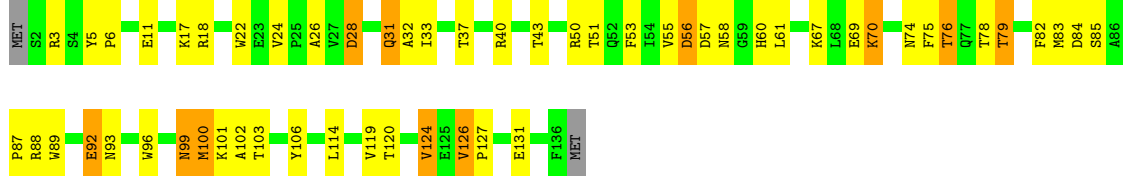
● Molecule 13: FAP126



● Molecule 13: FAP126

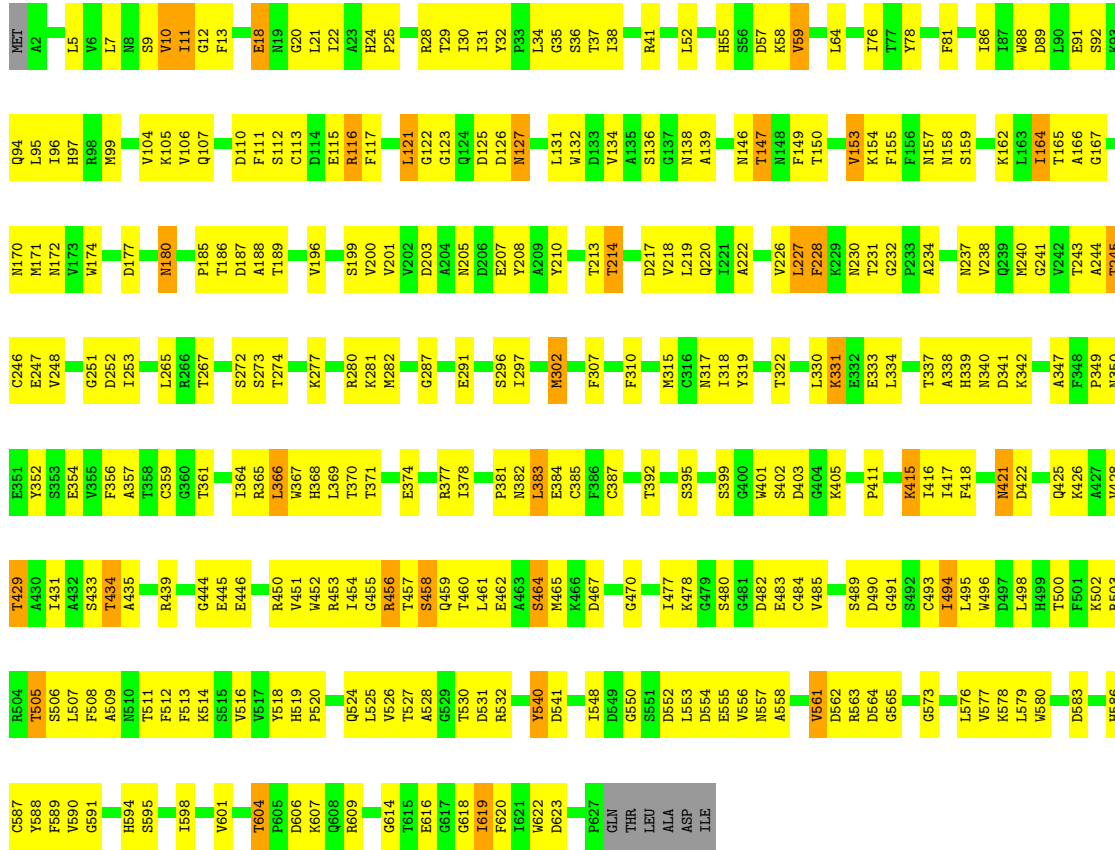


● Molecule 13: FAP126



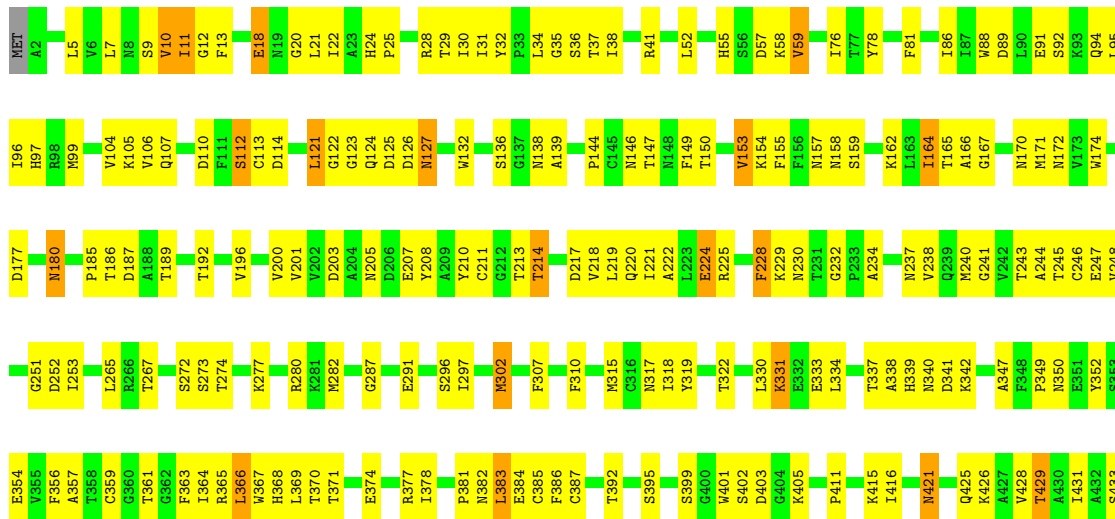
• Molecule 14: FAP52

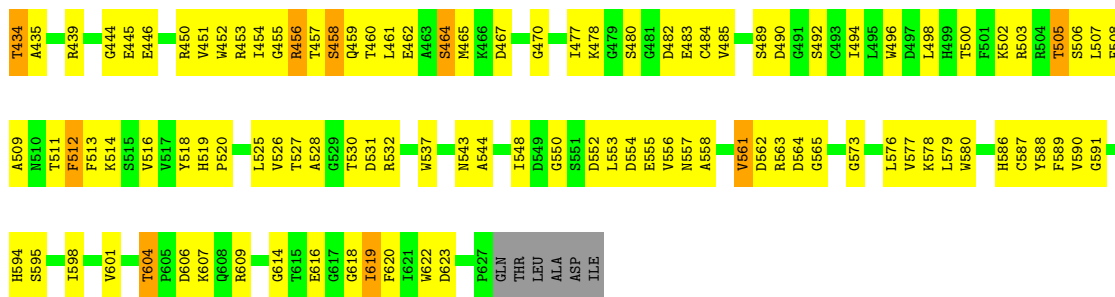
Chain 5L:



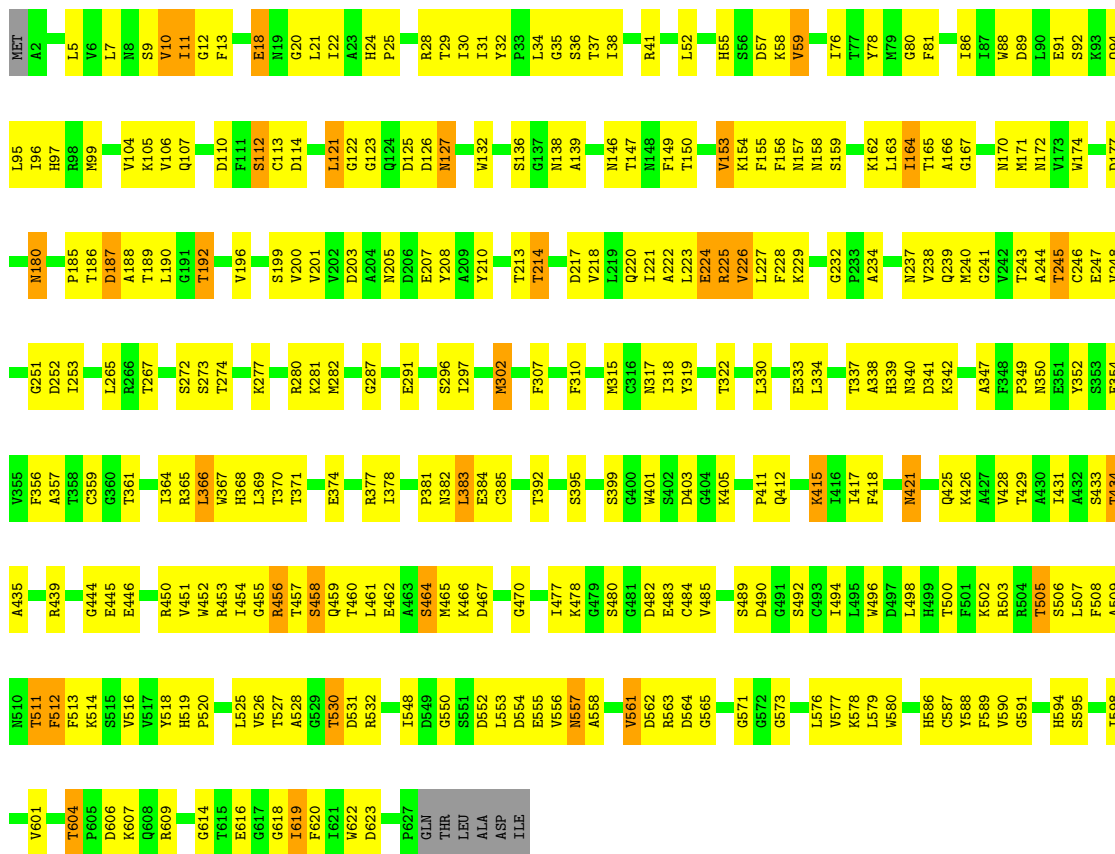
• Molecule 14: FAP52

Chain 5M:

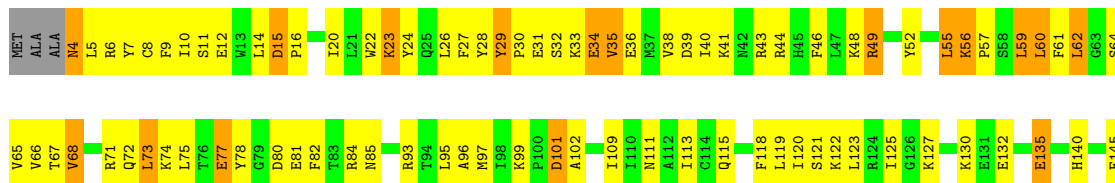


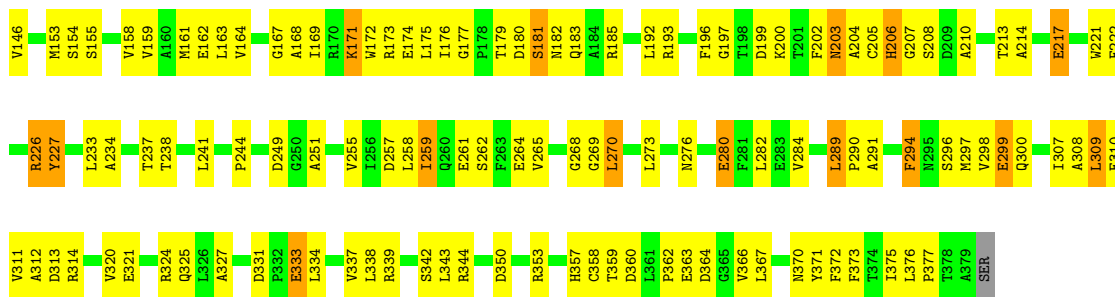


• Molecule 14: FAP52

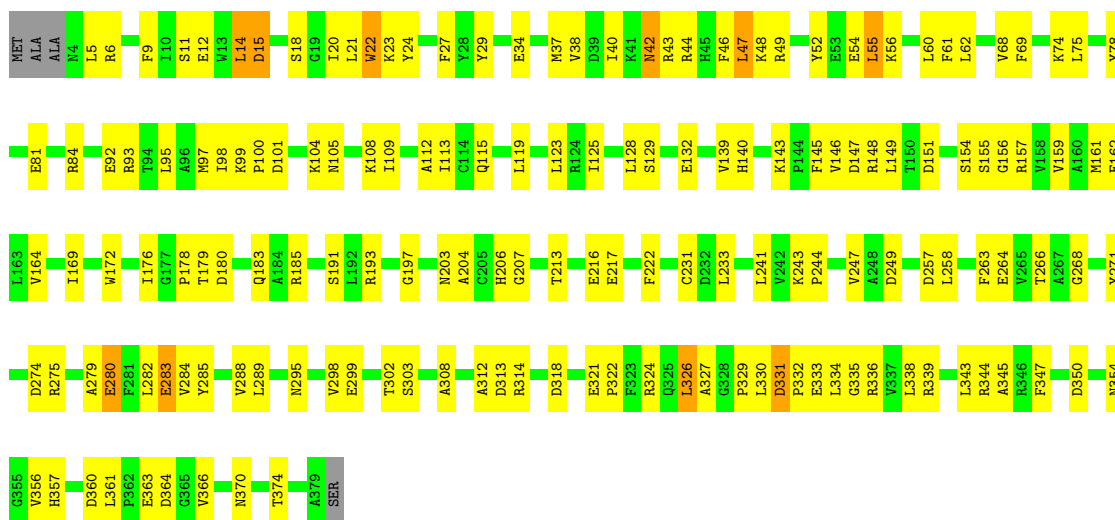


• Molecule 15: FAP67

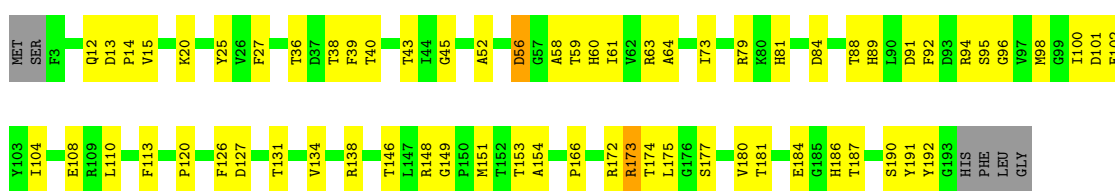




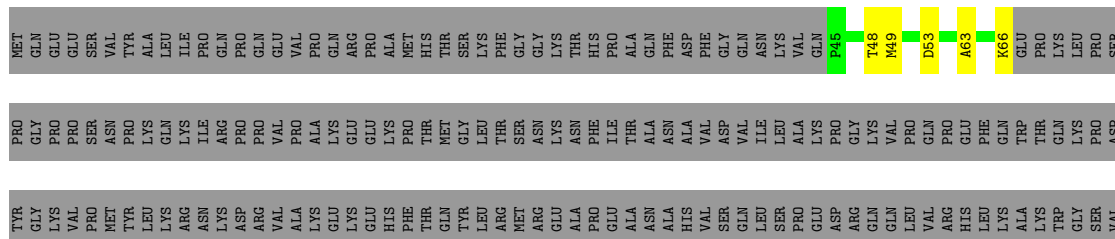
• Molecule 15: FAP67

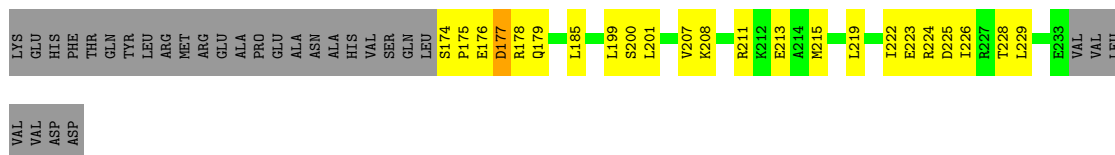


• Molecule 16: FAP85

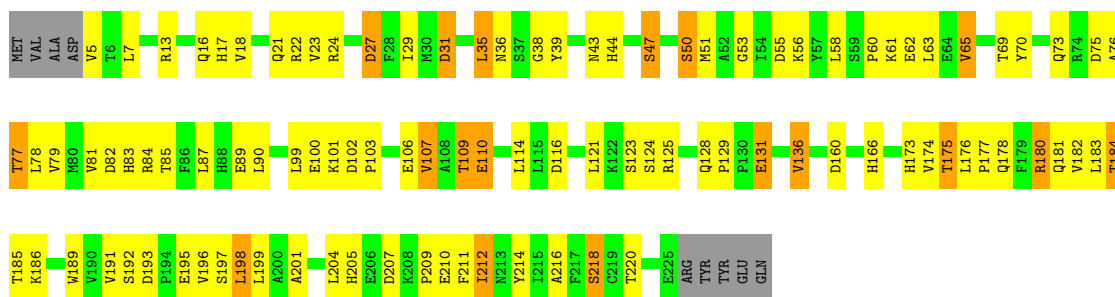


• Molecule 17: FAP106

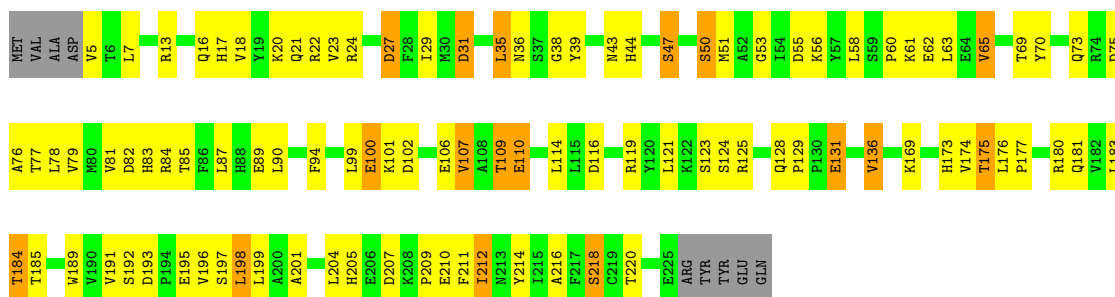




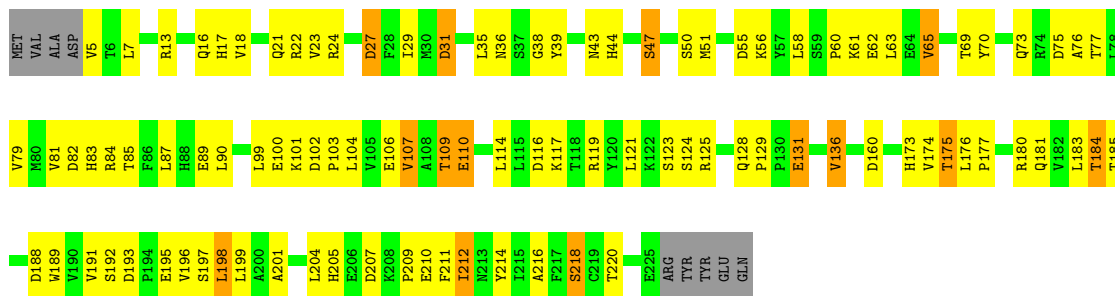
• Molecule 18: FAP115



• Molecule 18: FAP115

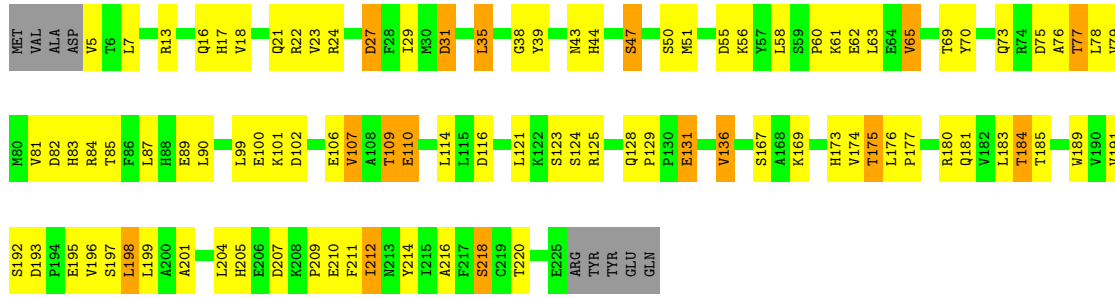


• Molecule 18: FAP115

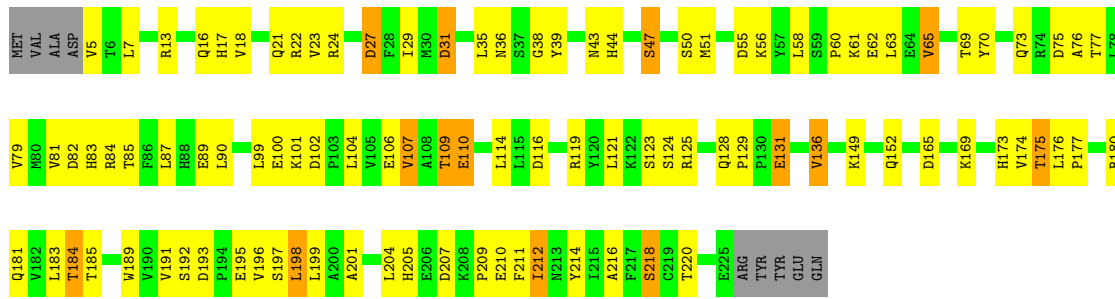


• Molecule 18: FAP115

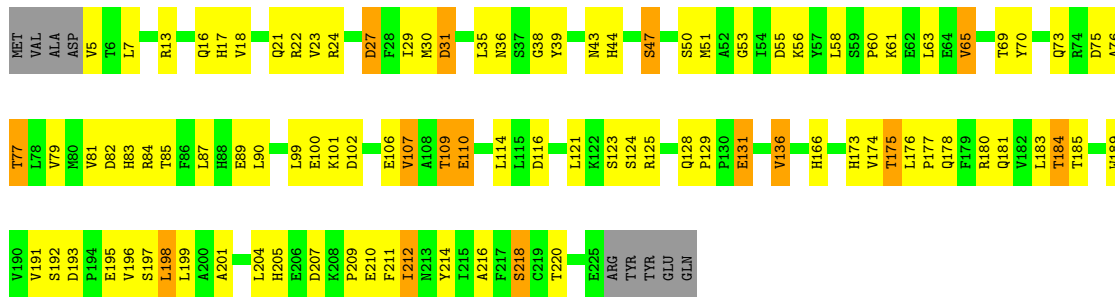




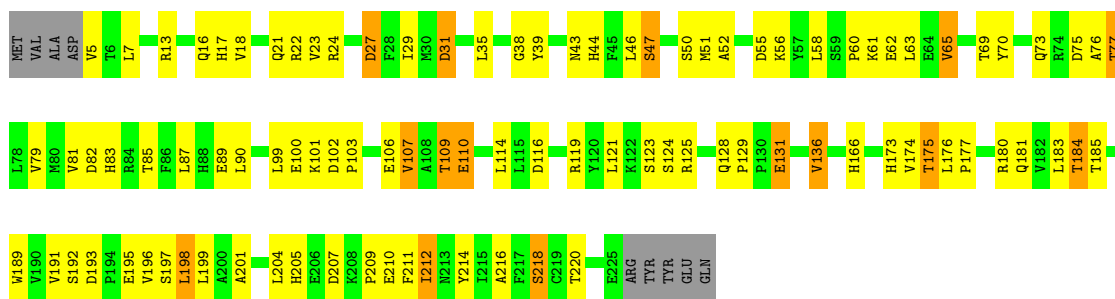
• Molecule 18: FAP115



• Molecule 18: FAP115

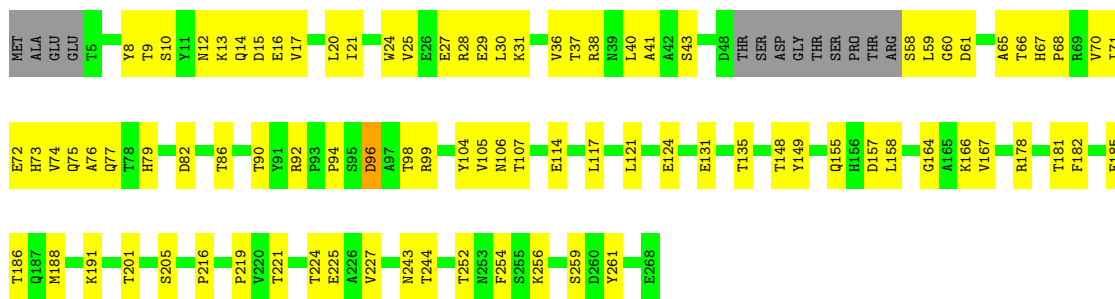


• Molecule 18: FAP115



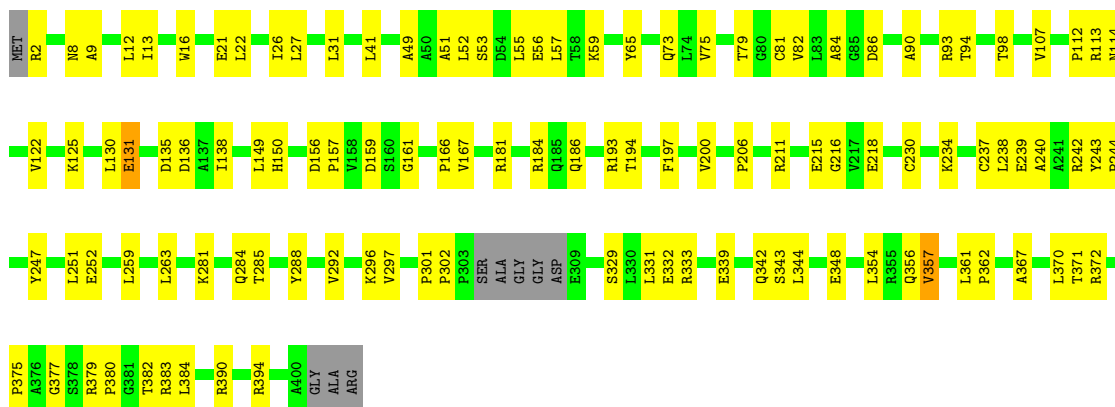
• Molecule 19: FAP143

Chain 6E: 62% 33% 5%



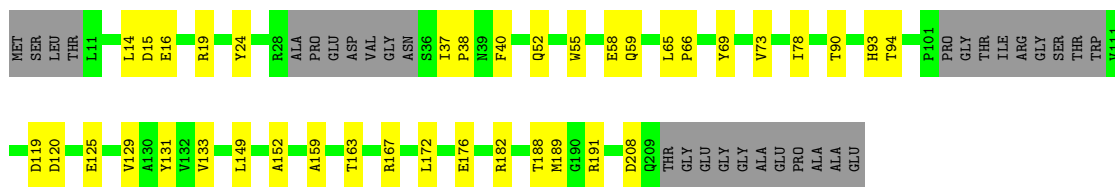
● Molecule 20: FAP161

Chain 6F: 70% 28%



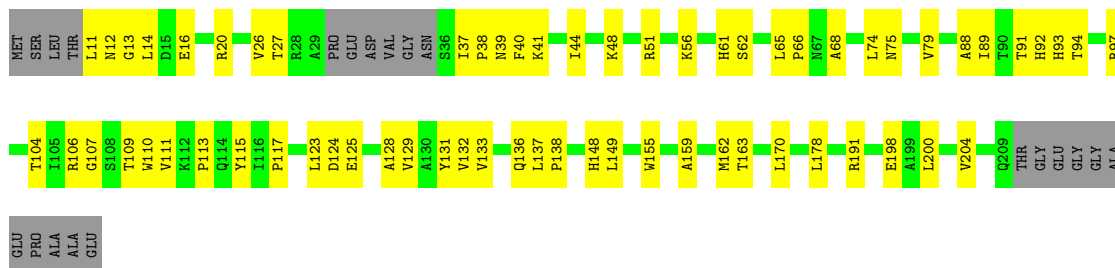
● Molecule 21: FAP166

Chain 6G: 68% 18% 14%



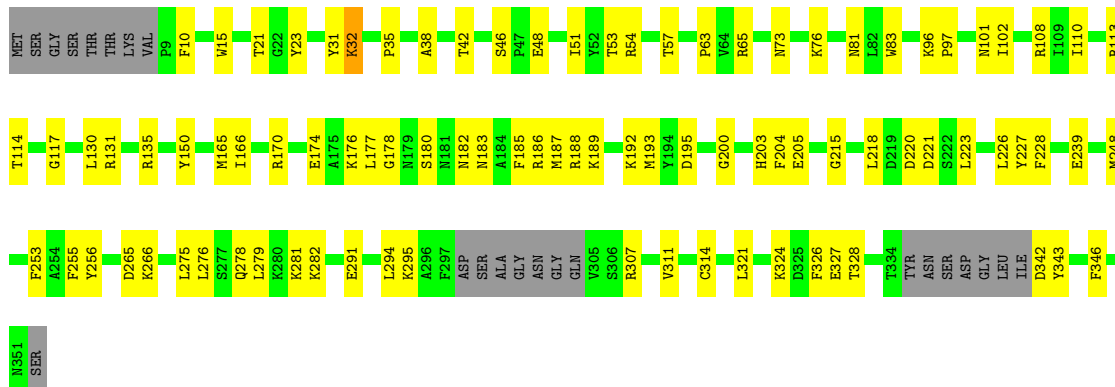
● Molecule 21: FAP166

Chain 6H: 60% 30% 10%



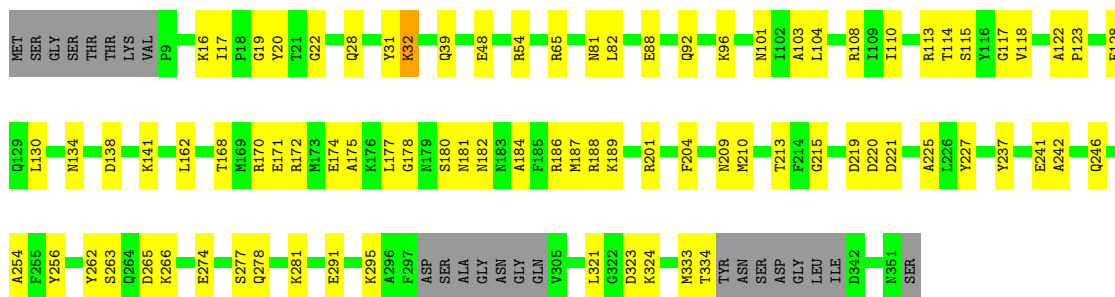
• Molecule 22: FAP252

Chain 6I:



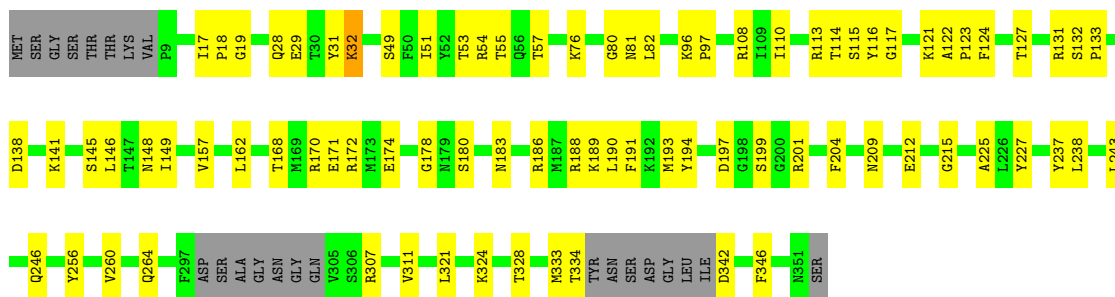
• Molecule 22: FAP252

Chain 6J:



• Molecule 22: FAP252

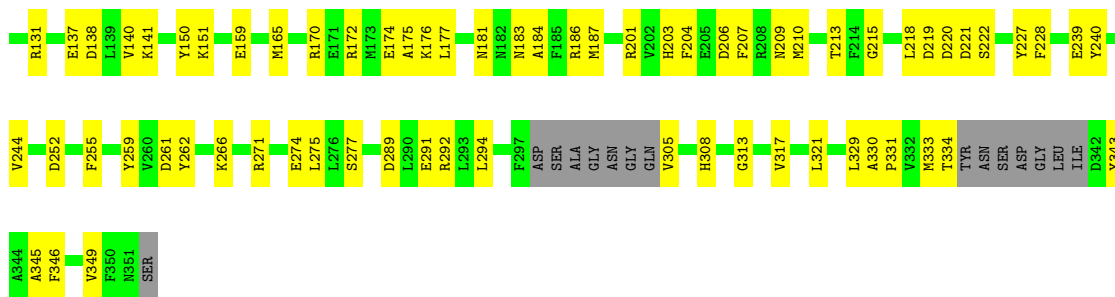
Chain 6K:



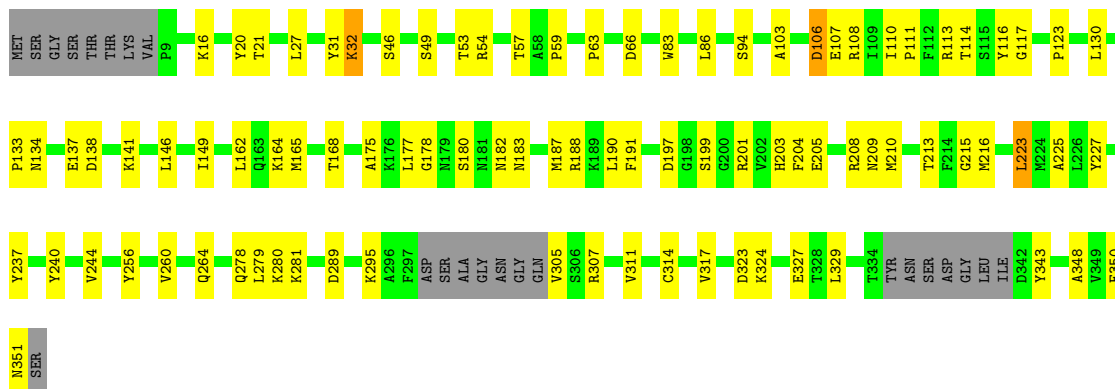
• Molecule 22: FAP252

Chain 6L:

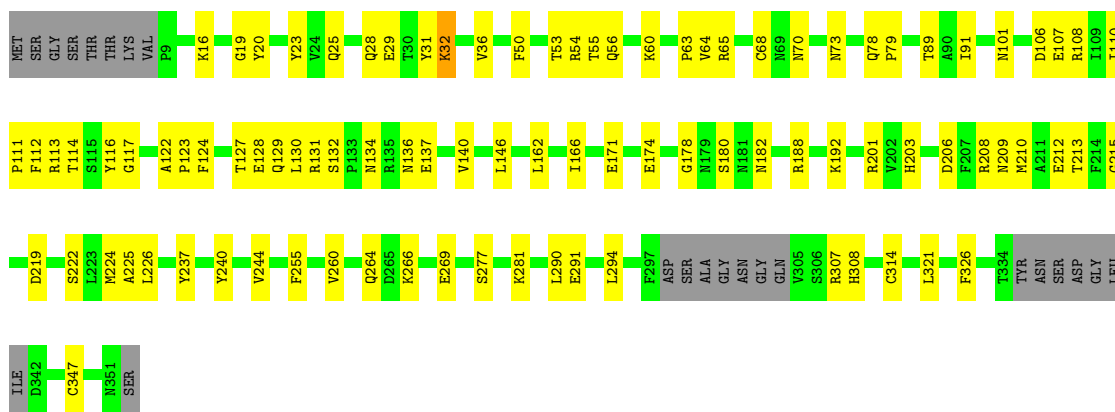




• Molecule 22: FAP252

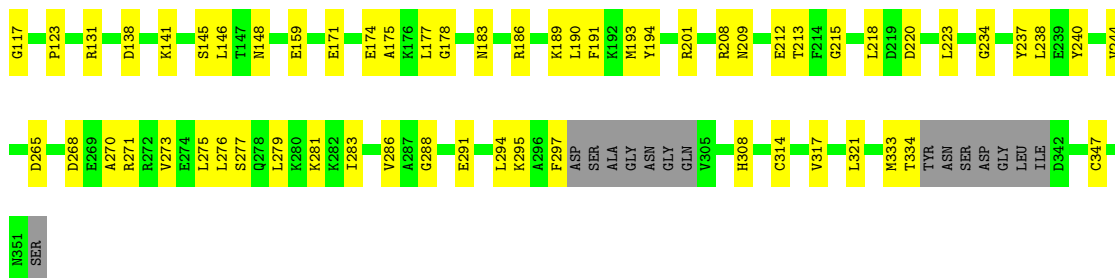


• Molecule 22: FAP252

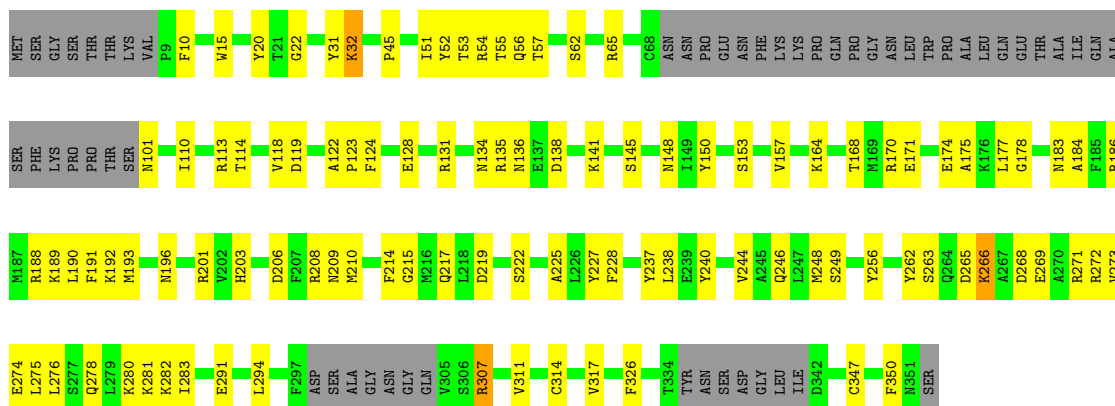


• Molecule 22: FAP252

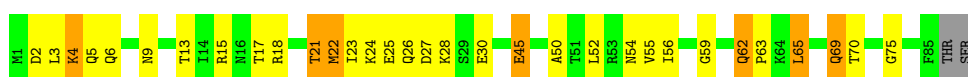




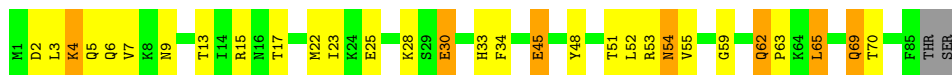
• Molecule 22: FAP252



• Molecule 23: FAP276



• Molecule 23: FAP276

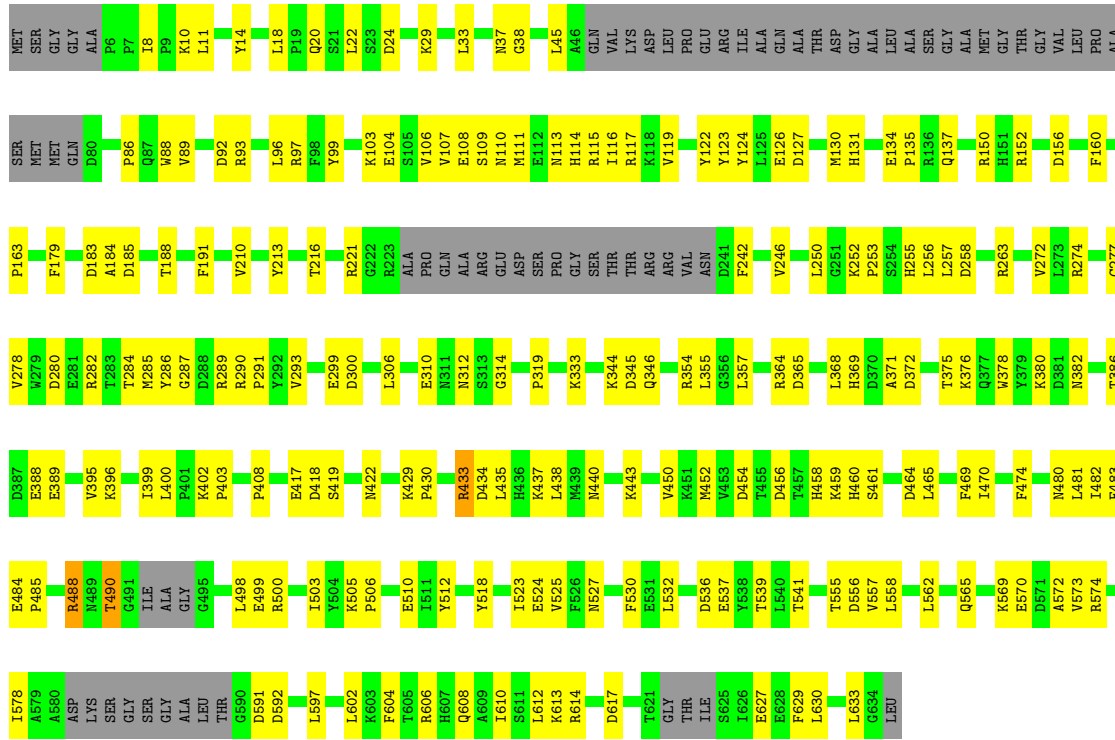


• Molecule 23: FAP276

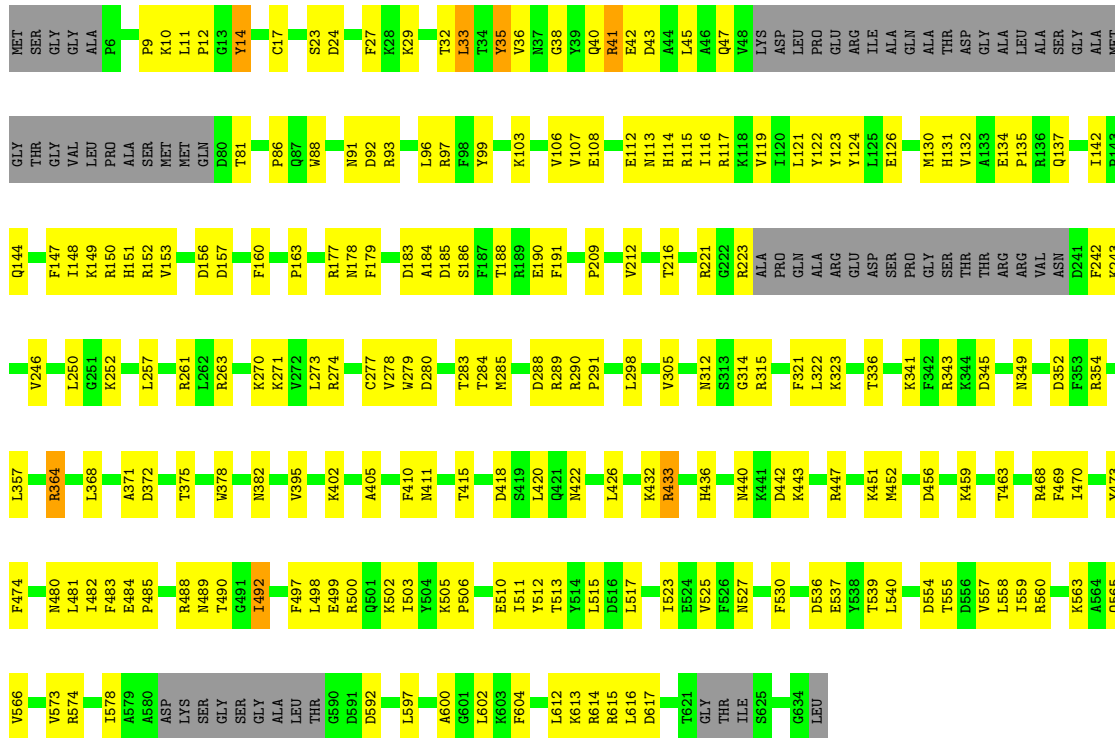


• Molecule 24: RIB72

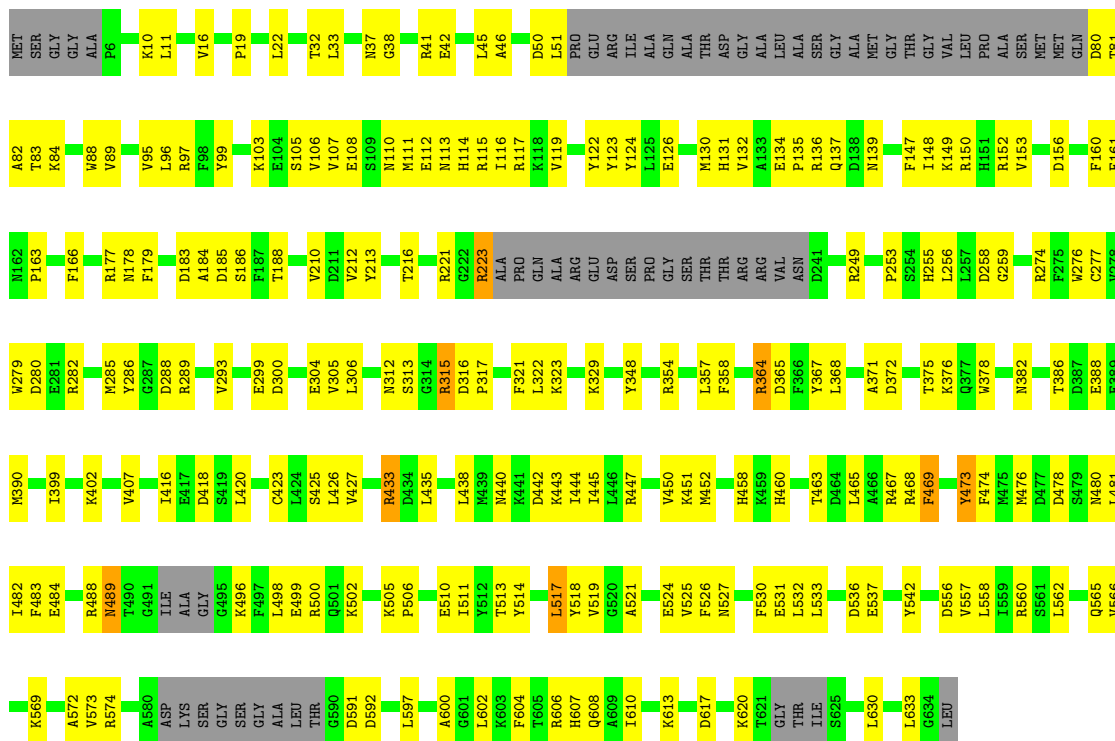




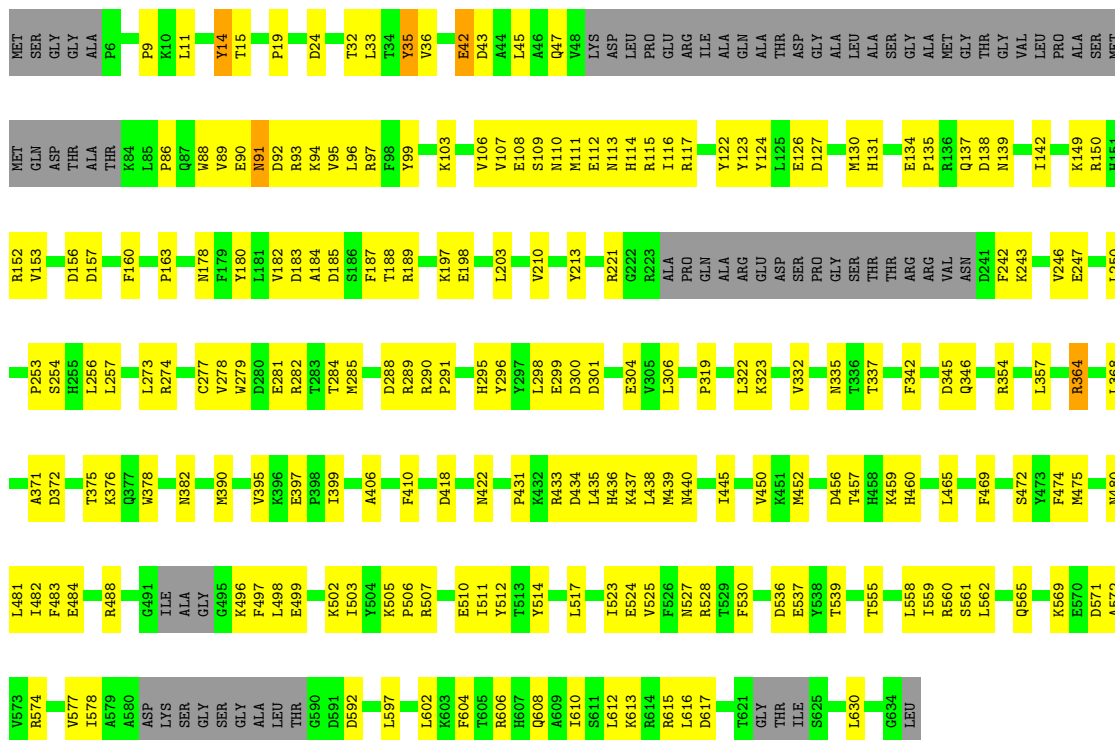
• Molecule 24: RIB72



• Molecule 24: RIB72



• Molecule 24: RIB72



• Molecule 24: RIB72



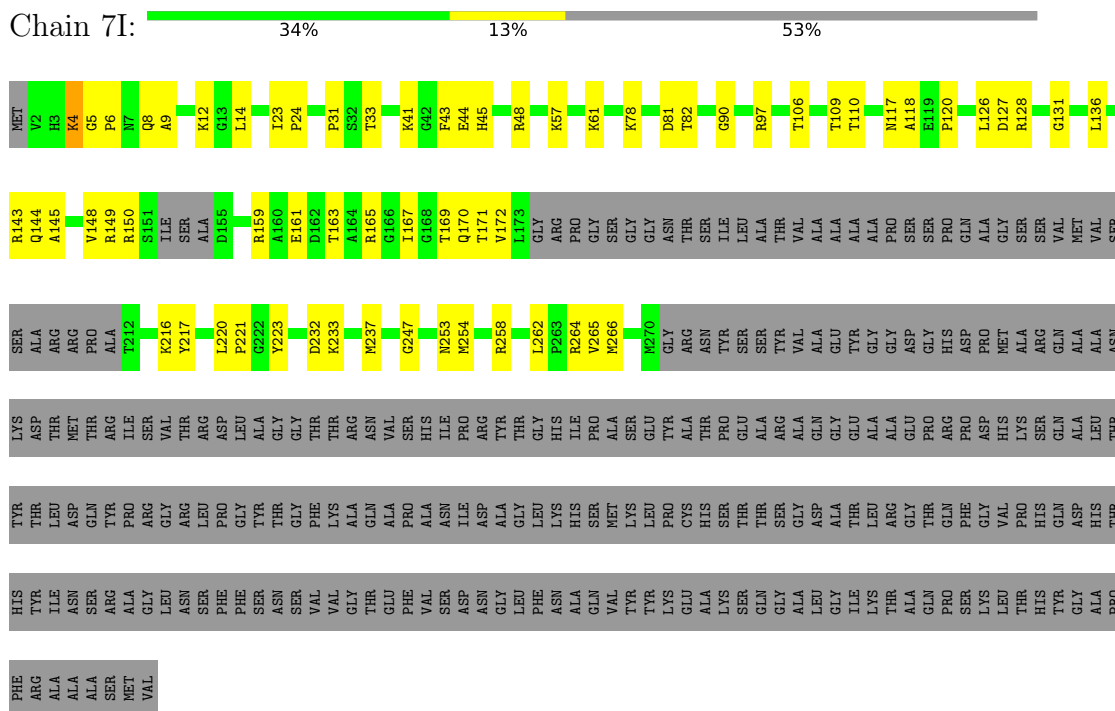
NET	SER	GLY	GLY	ALA	P6	L11	L11	Y14	P19	L22	S23	K25	K29	L33	Y35	G38	Y39	Q40	R41	E42	L45	ALA	GLN	VAL	LYS	ASP	LEU	PRO	GLU	ARG	ILE	ALA	GLN	THR	ASP	GLY	ALA	LEU	ALA	SER	GLY	VAL	LEU	PRO						
ALA	SER	MET	MET	GLN	D80	K84	W88	W89	D92	R93	L96	D24	R97	F98	Y99	K103	Y106	M111	E112	M113	H114	R115	I116	R117	Y122	Y123	Y124	L125	E126	M130	H131	V132	A133	E134	P135	R136	Q137	D138	M139	I148	K149	R150	H151	A244	Y245	V246	E247	D156	D157	F160
P163	F166	S167	T171	I174	G176	R177	M178	F179	Y180	D183	A184	D185	S186	F187	T188	R189	E190	K197	V212	T216	R223	ALA	PRO	GLN	ALA	ARG	GLU	ASP	M130	H131	V132	A133	E134	P135	R136	Q137	D138	M139	I148	K149	R150	H151	A244	Y245	V246	E247	D156	D157	F160	
H255	L256	L257	R263	L266	L273	R274	C277	V278	W279	D280	E281	R282	T283	R284	K285	R289	R290	P291	H295	L298	E299	D300	E310	N311	N312	R315	D316	F317	F319	L322	K323	L327	P328	K341	D345	Q346	C347	Y348	R354	L357	R364									
L368	A371	D372	T375	W378	N382	T386	E389	V395	K402	P403	T415	I416	E417	D418	N422	R433	D434	L435	H436	K437	L438	M439	K451	M452	T455	D456	K459	R468	F469	I470	L471	S472	Y473	F474	M475	M480	L481	L482	F483	E484										
P485	F486	V487	R488	N489	G590	T490	G491	ILE	ALA	GLY	G495	K496	F497	L498	I503	Y504	K505	P506	E509	E510	L517	V525	F526	N527	F530	D554	T555	D556	V557	L558	I559	R560	S561	K563	Q565	K569	E570	D571	F469	V572	V573	R574	V577	L578	A579	A580	ASP	LYS	GLY	SER
GLY	ALA	LEU	THR	ASN	D591	D592	L597	L602	K603	F604	F605	H606	Q608	A609	I610	K613	R614	R615	L616	D617	T621	GLY	THR	ILE	S625	L630	G634	LEU																						

• Molecule 24: RIB72

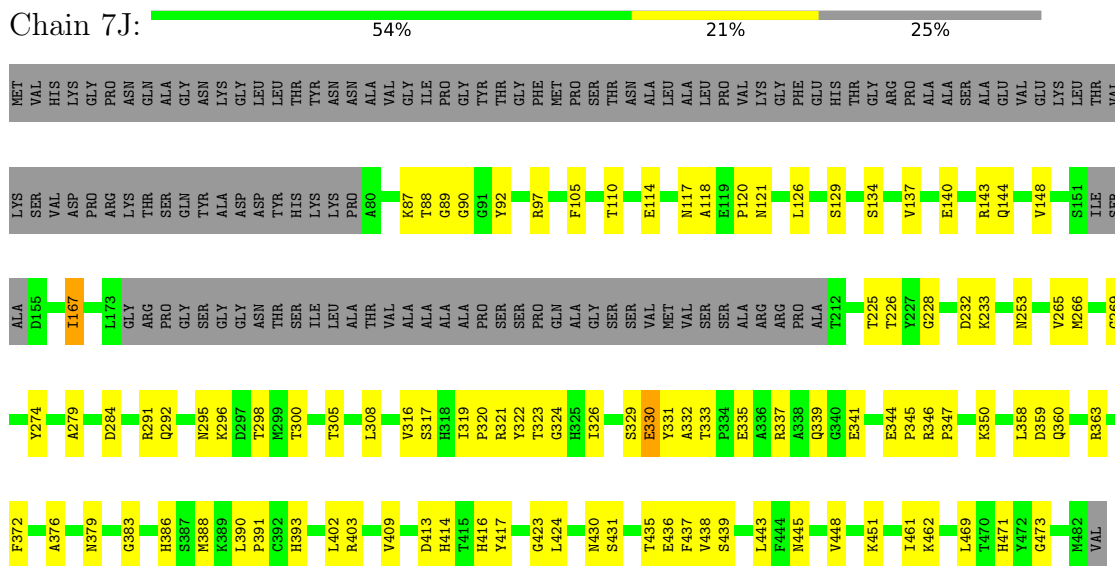


NET	SER	GLY	G4	A5	P6	K10	L11	P12	L13	P19	Q20	K25	Y35	A44	L45	A46	Q47	V48	LYS	ASP	LEU	PRO	GLU	GLY	ARG	ILE	ALA	GLN	VAL	LYS	ASP	LEU	ALA	LEU	ALA	LEU	THR	ASP	GLY	VAL	LEU	PRO	GLN	D80	W88	D92						
R93	L96	R97	F98	Y99	K103	V106	W107	E108	S109	M110	M111	E112	M113	H114	R115	I116	R117	Y122	Y123	E126	M130	H131	V132	A133	E134	P135	R136	Q137	S140	G141	I142	P143	Q144	F147	L148	K149	R150	H151	R152	V153	F160	P163	T171	M178	F179	Y180						
D183	A184	D185	S186	F187	T188	P209	V212	Y213	T216	F217	G218	R221	G222	R223	ALA	PRO	GLN	ALA	VAL	ARG	GLY	ASP	PRO	GLY	VAL	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR				
PHE	LEU	GLU	ASN	LYS	LYS	VAL	LEU	PHE	TRP	CYS	VAL	TRP	ASP	GLU	PHE	ARG	THR	THR	THR	THR	MET	TYR	TYR	TYR	TYR	TYR	TYR	TYR	TYR	TYR	TYR	TYR	TYR	TYR	TYR	TYR	TYR	TYR	TYR	TYR	TYR	TYR	TYR	TYR	TYR	TYR	TYR	TYR				
GLY	PRO	LEU	VAL	VAL	ALA	VAL	VAL	ASN	THR	THR	LEU	ASN	PRO	PHE	LYS	ARG	LYS	ASP	GLY	ALA	GLY	ASP	PRO	GLY	PHE	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR		
TYR	THR	ASP	PHE	GLU	MET	PRO	VAL	ASP	VAL	GLY	ILE	PRO	PRO	LYS	ALA	ALA	VAL	VAL	PRO	PHE	ASN	ASN	ASN	ASN	ASN	ASN	ASN	ASN	ASN	ASN	ASN	ASN	ASN	ASN	ASN	ASN	ASN	ASN	ASN	ASN	ASN	ASN	ASN	ASN	ASN	ASN	ASN	ASN	ASN	ASN		
ILE	LEU	ARG	PHE	VAL	LYS	MET	VAL	THR	THR	THR	HIS	VAL	HIS	ALA	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	
LYS	PRO	ARG	SER	GLU	ILE	TYR	THR	TYR	ASP	THR	VAL	GLY	ALA	THR	ILE	VAL	PHE	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR

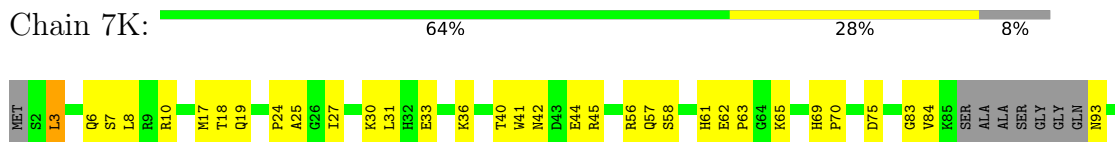
- Molecule 29: FAP129

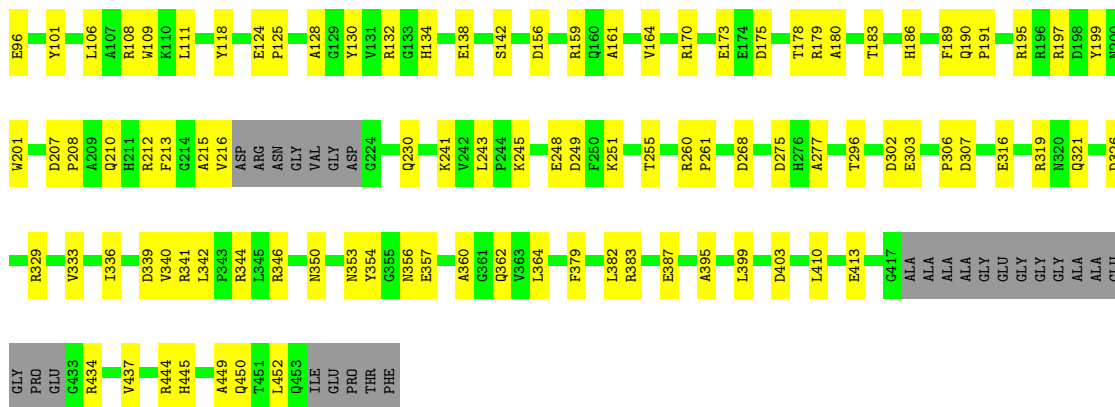


- Molecule 29: FAP129

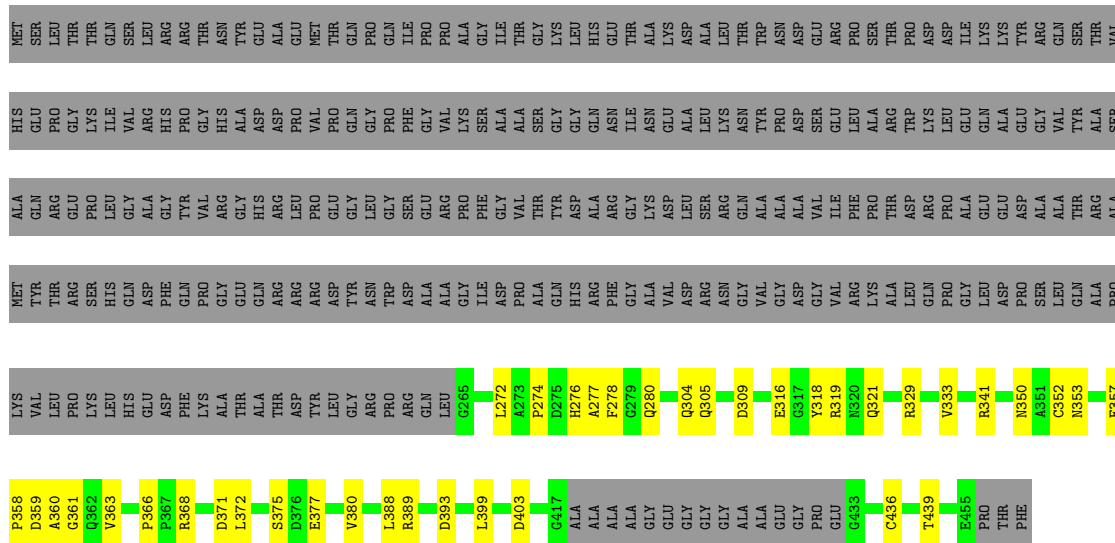


- Molecule 30: FAP21

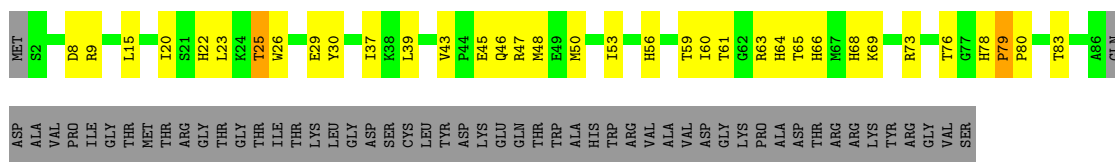




• Molecule 30: FAP21

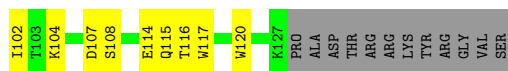


• Molecule 31: FAP273

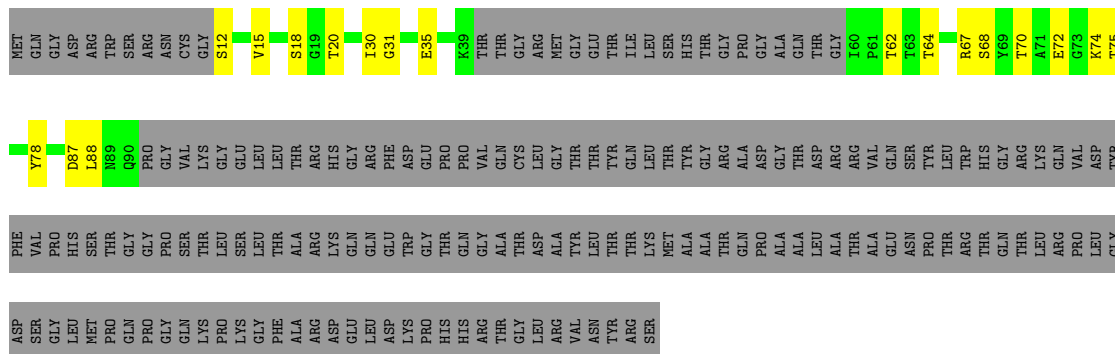


• Molecule 31: FAP273

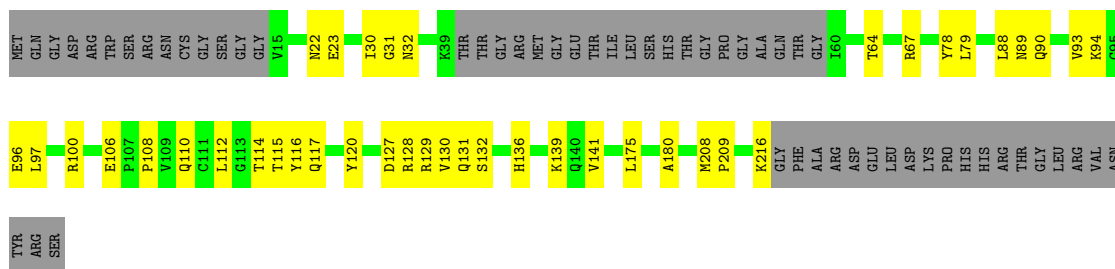




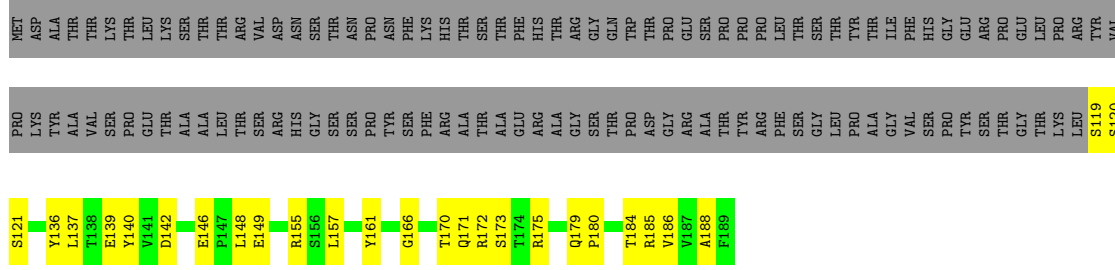
• Molecule 32: FAP107



• Molecule 32: FAP107

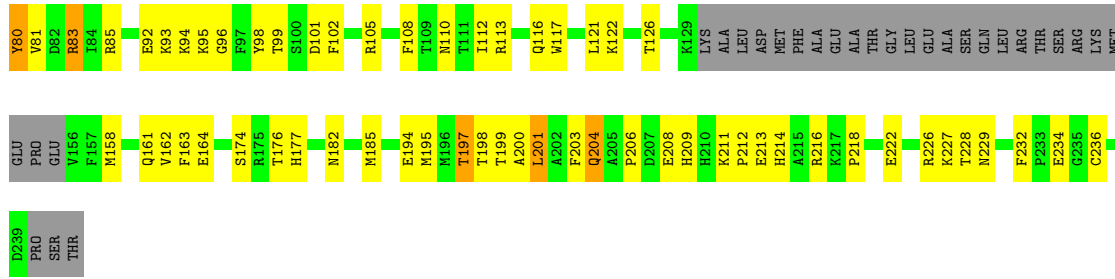


• Molecule 33: RIB21

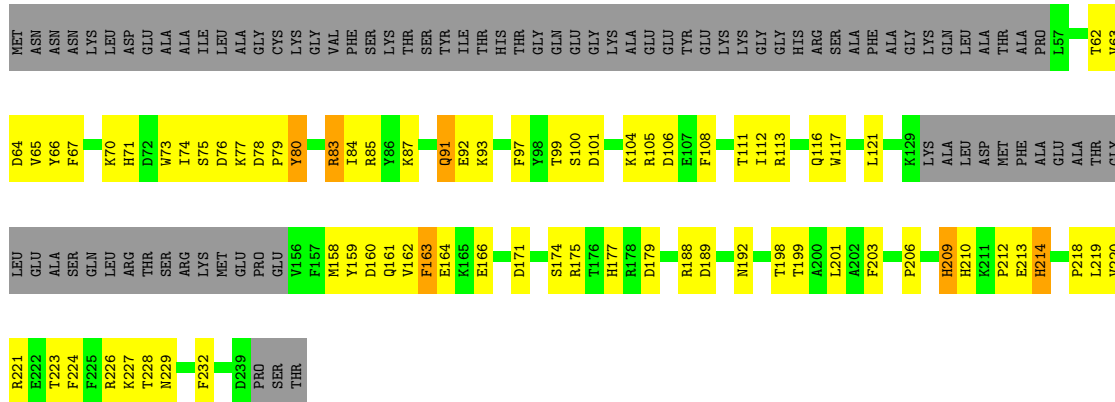
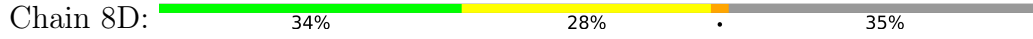


• Molecule 34: DC1





• Molecule 38: FAP90



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	143765	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	38.9	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	3100	Depositor
Magnification	81000	Depositor
Image detector	GATAN K2 QUANTUM (4k x 4k)	Depositor

5 Model quality i

5.1 Standard geometry i

Bond lengths and bond angles in the following residue types are not validated in this section: GTP, 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	0A	0.33	0/3420	0.46	0/4628
1	0C	0.30	0/3420	0.45	0/4628
1	0E	0.31	0/3420	0.45	0/4628
1	0G	0.32	0/3420	0.45	0/4628
1	0I	0.32	0/3420	0.45	0/4628
1	0K	0.35	0/3420	0.47	0/4628
1	0M	0.34	0/3420	0.46	0/4628
1	0O	0.33	0/3420	0.46	0/4628
1	0Q	0.32	0/3420	0.44	0/4628
1	0S	0.30	0/3420	0.47	0/4628
1	0U	0.31	0/3420	0.46	0/4628
1	0W	0.33	0/3420	0.47	0/4628
1	0Y	0.33	0/3420	0.47	0/4628
1	1	0.43	0/1144	0.50	0/1538
1	1A	0.35	0/3420	0.47	0/4628
1	1C	0.35	0/3420	0.47	1/4628 (0.0%)
1	1E	0.33	0/3420	0.47	0/4628
1	1G	0.33	0/3420	0.46	0/4628
1	1K	0.32	0/3420	0.44	0/4628
1	1M	0.34	0/3420	0.45	0/4628
1	1O	0.34	0/3420	0.45	0/4628
1	1Q	0.37	0/3420	0.46	0/4628
1	1S	0.35	0/3420	0.45	0/4628
1	1U	0.34	0/3420	0.47	0/4628
1	1W	0.33	0/3420	0.44	0/4628
1	2A	0.35	0/3420	0.47	1/4628 (0.0%)
1	2C	0.37	0/3420	0.46	0/4628
1	2E	0.35	0/3420	0.45	0/4628
1	2G	0.38	0/3420	0.46	0/4628
1	2I	0.37	0/3420	0.46	0/4628
1	2K	0.37	0/3420	0.45	0/4628
1	2M	0.36	0/3420	0.46	0/4628

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	2Q	0.39	0/3420	0.48	0/4628
1	2S	0.39	0/3420	0.48	1/4628 (0.0%)
1	2U	0.39	0/3420	0.47	0/4628
1	2W	0.41	0/3420	0.47	0/4628
1	2Y	0.40	0/3420	0.48	0/4628
1	3	0.42	0/3471	0.48	0/4697
1	3A	0.41	0/3420	0.48	0/4628
1	3C	0.40	0/3420	0.47	0/4628
1	3G	0.38	0/3420	0.47	0/4628
1	3I	0.39	0/3420	0.47	0/4628
1	3K	0.40	0/3420	0.48	0/4628
1	3M	0.42	0/3420	0.50	1/4628 (0.0%)
1	3O	0.39	0/3420	0.50	0/4628
1	3Q	0.40	0/3420	0.50	0/4628
1	3S	0.43	0/3420	0.55	0/4628
1	5	0.41	0/3496	0.48	0/4730
1	7	0.43	0/3505	0.49	0/4742
1	9	0.44	0/3496	0.52	1/4730 (0.0%)
1	A1	0.40	0/3462	0.48	0/4685
1	A3	0.32	0/3484	0.44	0/4714
1	A5	0.38	0/3444	0.45	0/4661
1	A7	0.37	0/3420	0.46	0/4628
1	A9	0.40	0/3420	0.47	0/4628
1	B1	0.38	0/3420	0.45	0/4628
1	B3	0.40	0/3420	0.46	0/4628
1	B5	0.41	0/3420	0.47	0/4628
1	B8	0.37	0/3420	0.47	0/4628
1	C0	0.38	0/3420	0.46	0/4628
1	C2	0.35	0/3420	0.44	0/4628
1	C4	0.35	0/3420	0.45	0/4628
1	C6	0.40	0/3420	0.48	0/4628
1	C8	0.38	0/3420	0.48	0/4628
1	D0	0.41	0/3420	0.47	0/4628
1	D2	0.41	0/3420	0.49	1/4628 (0.0%)
1	D4	0.38	0/3420	0.48	0/4628
1	D6	0.38	0/3420	0.47	0/4628
1	D8	0.32	0/3420	0.46	0/4628
1	E0	0.34	0/3420	0.46	0/4628
1	E2	0.39	0/3420	0.48	0/4628
1	E4	0.35	0/3420	0.47	0/4628
1	E6	0.37	0/3420	0.47	0/4628
1	E8	0.38	0/3420	0.48	0/4628
1	F0	0.35	0/3420	0.47	0/4628

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	F2	0.36	0/3420	0.47	0/4628
1	F6	0.32	0/3420	0.47	1/4628 (0.0%)
1	F8	0.36	0/3420	0.46	0/4628
1	G0	0.34	0/3420	0.46	0/4628
1	G2	0.38	0/3420	0.47	0/4628
1	G4	0.35	0/3420	0.45	0/4628
1	G6	0.37	0/3420	0.48	0/4628
1	G8	0.34	0/3420	0.46	0/4628
1	H2	0.33	0/3420	0.46	0/4628
1	H4	0.36	0/3420	0.48	0/4628
1	H6	0.34	0/3420	0.45	0/4628
1	H8	0.38	0/3420	0.46	0/4628
1	I0	0.36	0/3420	0.46	0/4628
1	I2	0.36	0/3420	0.46	0/4628
1	I4	0.36	0/3420	0.47	0/4628
1	I8	0.37	0/3420	0.45	0/4628
1	J0	0.39	0/3420	0.46	0/4628
1	J2	0.38	0/3420	0.46	0/4628
1	J4	0.40	0/3420	0.46	0/4628
1	J6	0.38	0/3420	0.46	0/4628
1	J8	0.38	0/3420	0.45	0/4628
1	K0	0.35	0/3420	0.45	0/4628
1	K4	0.37	0/3420	0.46	0/4628
1	K6	0.38	0/3420	0.46	0/4628
1	K8	0.38	0/3420	0.45	0/4628
1	L0	0.40	0/3420	0.46	0/4628
1	L2	0.37	0/3420	0.46	0/4628
1	L4	0.39	0/3420	0.46	0/4628
1	L6	0.37	0/3420	0.46	0/4628
1	M0	0.37	0/3420	0.46	0/4628
1	M2	0.37	0/3420	0.46	0/4628
1	M4	0.36	0/3420	0.46	0/4628
1	M6	0.39	0/3420	0.47	0/4628
1	M8	0.36	0/3420	0.48	0/4628
1	N0	0.39	0/3420	0.47	0/4628
1	N2	0.36	0/3420	0.48	1/4628 (0.0%)
1	N6	0.40	0/3420	0.46	0/4628
1	N8	0.41	0/3420	0.47	0/4628
1	O0	0.37	0/3420	0.47	0/4628
1	O2	0.42	0/3420	0.49	0/4628
1	O4	0.42	0/3420	0.48	0/4628
1	O6	0.43	0/3420	0.47	0/4628
1	O8	0.41	1/3420 (0.0%)	0.46	0/4628

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	P4	0.42	0/3420	0.47	0/4628
1	P6	0.40	0/3420	0.46	0/4628
1	P8	0.41	0/3420	0.46	0/4628
1	Q0	0.42	0/3420	0.48	1/4628 (0.0%)
1	Q2	0.41	0/3420	0.46	0/4628
1	Q4	0.42	0/3420	0.47	0/4628
1	Q6	0.40	0/3420	0.46	0/4628
1	Q8	0.33	0/3366	0.49	0/4556
1	R0	0.42	0/3475	0.48	0/4702
1	R2	0.40	0/3420	0.50	1/4628 (0.0%)
1	R4	0.43	0/3444	0.48	0/4661
1	R6	0.42	0/3420	0.47	0/4628
1	R8	0.41	0/3453	0.47	0/4673
1	S0	0.41	0/3420	0.48	0/4628
1	S2	0.41	0/3453	0.49	0/4673
1	S4	0.37	0/3428	0.49	0/4639
1	S6	0.41	0/3420	0.48	1/4628 (0.0%)
1	S8	0.41	0/3420	0.48	0/4628
1	T0	0.42	0/3420	0.49	0/4628
1	T2	0.44	0/3420	0.49	0/4628
1	T4	0.40	0/3420	0.46	0/4628
1	T6	0.44	1/3420 (0.0%)	0.54	0/4628
1	T8	0.38	0/3420	0.46	0/4628
1	U2	0.36	0/3420	0.47	0/4628
1	U4	0.37	0/3420	0.46	0/4628
1	U6	0.37	0/3420	0.47	0/4628
1	U8	0.39	0/3444	0.49	0/4661
1	V0	0.37	0/3420	0.45	0/4628
1	V2	0.37	0/3420	0.47	0/4628
1	V4	0.36	0/3420	0.45	0/4628
1	V6	0.33	0/3420	0.46	0/4628
1	V8	0.36	0/3420	0.47	0/4628
1	W0	0.37	0/3420	0.46	0/4628
1	W2	0.37	0/3420	0.46	0/4628
1	W4	0.40	0/3420	0.48	0/4628
1	W6	0.36	0/3420	0.45	0/4628
1	W8	0.38	0/3420	0.48	0/4628
1	X0	0.36	0/3420	0.46	0/4628
1	X2	0.31	0/3420	0.45	0/4628
1	X4	0.34	0/3420	0.46	0/4628
1	X6	0.35	0/3420	0.46	0/4628
1	X8	0.36	0/3420	0.47	0/4628
1	Y0	0.37	0/3420	0.47	0/4628

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	Y2	0.34	0/3420	0.46	0/4628
1	Y4	0.39	0/3420	0.47	0/4628
1	Y6	0.33	0/3420	0.45	0/4628
1	Y8	0.29	0/3420	0.46	0/4628
1	Z0	0.32	0/3420	0.46	0/4628
1	Z2	0.32	0/3420	0.46	0/4628
1	Z4	0.34	0/3420	0.48	0/4628
1	Z6	0.34	0/3420	0.47	0/4628
1	Z8	0.32	0/3420	0.46	0/4628
2	0B	0.32	0/3389	0.46	0/4595
2	0F	0.32	0/3389	0.47	0/4595
2	0H	0.32	0/3389	0.46	0/4595
2	0J	0.34	0/3389	0.48	0/4595
2	0L	0.35	0/3389	0.49	1/4595 (0.0%)
2	0N	0.33	0/3389	0.47	0/4595
2	0P	0.34	0/3389	0.48	0/4595
2	0R	0.32	0/3389	0.47	0/4595
2	0V	0.35	0/3389	0.47	0/4595
2	0X	0.33	0/3389	0.47	0/4595
2	0Z	0.36	0/3389	0.47	0/4595
2	1B	0.35	0/3389	0.47	0/4595
2	1D	0.34	0/3389	0.48	0/4595
2	1F	0.34	0/3389	0.47	0/4595
2	1H	0.32	0/3389	0.47	0/4595
2	1L	0.34	0/3389	0.48	0/4595
2	1N	0.36	0/3389	0.48	0/4595
2	1P	0.37	0/3389	0.48	0/4595
2	1R	0.38	0/3389	0.49	0/4595
2	1T	0.34	0/3389	0.47	0/4595
2	1V	0.35	0/3389	0.48	0/4595
2	1X	0.32	0/3389	0.47	0/4595
2	1Z	0.33	0/3389	0.47	0/4595
2	2	0.41	0/3448	0.49	1/4675 (0.0%)
2	2B	0.38	0/3389	0.49	0/4595
2	2D	0.35	0/3389	0.47	1/4595 (0.0%)
2	2F	0.37	0/3389	0.48	1/4595 (0.0%)
2	2H	0.38	0/3389	0.50	0/4595
2	2J	0.38	0/3389	0.50	0/4595
2	2L	0.39	0/3389	0.48	0/4595
2	2N	0.33	0/3389	0.49	0/4595
2	2P	0.38	0/3389	0.49	0/4595
2	2R	0.40	0/3389	0.48	0/4595
2	2T	0.39	0/3389	0.48	0/4595

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	2V	0.41	0/3389	0.49	0/4595
2	2X	0.41	0/3457	0.49	1/4687 (0.0%)
2	2Z	0.41	0/3389	0.49	0/4595
2	3B	0.43	0/3455	0.52	0/4684
2	3D	0.36	0/3389	0.48	0/4595
2	3F	0.37	0/3389	0.49	0/4595
2	3H	0.39	0/3389	0.49	0/4595
2	3J	0.39	0/3389	0.48	0/4595
2	3L	0.41	0/3389	0.49	0/4595
2	3N	0.41	0/3389	0.50	0/4595
2	3P	0.39	0/3389	0.50	0/4595
2	3R	0.40	0/3457	0.53	0/4687
2	3T	0.36	0/3389	0.55	0/4595
2	4	0.43	0/3448	0.52	0/4675
2	6	0.41	0/3448	0.49	0/4675
2	8	0.44	0/3448	0.51	0/4675
2	A0	0.41	0/3448	0.49	0/4675
2	A2	0.35	0/3448	0.50	0/4675
2	A4	0.41	0/3448	0.49	0/4675
2	A8	0.39	0/3389	0.48	0/4595
2	B0	0.39	0/3389	0.48	0/4595
2	B2	0.40	0/3389	0.47	0/4595
2	B4	0.42	0/3389	0.48	0/4595
2	B7	0.38	0/3389	0.50	0/4595
2	B9	0.40	0/3389	0.48	1/4595 (0.0%)
2	C1	0.37	0/3389	0.47	0/4595
2	C5	0.39	0/3448	0.48	0/4675
2	C7	0.40	0/3448	0.48	0/4675
2	C9	0.41	0/3389	0.50	0/4595
2	D1	0.42	0/3389	0.51	1/4595 (0.0%)
2	D3	0.37	0/3395	0.47	0/4603
2	D5	0.40	0/3389	0.49	0/4595
2	D7	0.37	0/3395	0.48	0/4603
2	E1	0.37	0/3395	0.48	0/4603
2	E3	0.37	0/3389	0.47	0/4595
2	E5	0.39	0/3389	0.49	0/4595
2	E7	0.38	0/3395	0.50	0/4603
2	E9	0.35	0/3389	0.49	0/4595
2	F1	0.37	0/3389	0.49	0/4595
2	F3	0.34	0/3389	0.49	0/4595
2	F5	0.31	0/3389	0.46	0/4595
2	F7	0.36	0/3389	0.47	0/4595
2	F9	0.35	0/3448	0.46	0/4675

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	G1	0.38	0/3448	0.50	0/4675
2	G3	0.39	0/3448	0.51	0/4675
2	G5	0.34	0/3389	0.47	0/4595
2	G7	0.35	0/3389	0.47	0/4595
2	G9	0.33	0/3389	0.47	0/4595
2	H1	0.31	0/3389	0.47	0/4595
2	H3	0.38	0/3389	0.48	0/4595
2	H5	0.35	0/3389	0.47	1/4595 (0.0%)
2	H7	0.38	0/3389	0.48	0/4595
2	H9	0.38	0/3389	0.48	0/4595
2	I1	0.35	0/3389	0.49	0/4595
2	I3	0.36	0/3389	0.47	0/4595
2	I5	0.31	0/3389	0.46	0/4595
2	I7	0.35	0/3403	0.47	0/4614
2	I9	0.40	0/3395	0.49	0/4603
2	J1	0.37	0/3389	0.47	0/4595
2	J3	0.43	0/3397	0.52	0/4606
2	J5	0.42	0/3457	0.52	2/4687 (0.0%)
2	J7	0.39	0/3389	0.48	0/4595
2	J9	0.37	0/3457	0.48	0/4687
2	K1	0.32	0/3389	0.46	0/4595
2	K3	0.35	0/3389	0.48	0/4595
2	K5	0.39	0/3389	0.48	0/4595
2	K7	0.36	0/3389	0.47	0/4595
2	K9	0.41	0/3389	0.50	0/4595
2	L1	0.38	0/3389	0.47	0/4595
2	L3	0.39	0/3389	0.49	0/4595
2	L5	0.39	0/3389	0.49	0/4595
2	L7	0.31	0/3389	0.47	0/4595
2	L9	0.35	0/3389	0.47	0/4595
2	M1	0.37	0/3389	0.49	0/4595
2	M3	0.37	0/3448	0.48	0/4675
2	M5	0.40	0/3389	0.49	0/4595
2	M7	0.38	0/3448	0.49	0/4675
2	M9	0.41	0/3457	0.50	0/4687
2	N1	0.40	0/3395	0.53	0/4603
2	N3	0.30	0/3389	0.47	0/4595
2	N5	0.38	0/3389	0.50	0/4595
2	N7	0.41	0/3389	0.50	0/4595
2	N9	0.39	0/3389	0.50	0/4595
2	O1	0.41	0/3389	0.50	0/4595
2	O3	0.42	0/3389	0.51	0/4595
2	O5	0.41	0/3389	0.50	0/4595

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	O7	0.42	0/3411	0.52	0/4624
2	O9	0.38	0/3389	0.47	0/4595
2	P3	0.41	0/3389	0.49	1/4595 (0.0%)
2	P5	0.42	0/3448	0.51	0/4675
2	P7	0.41	0/3389	0.48	0/4595
2	P9	0.42	0/3448	0.49	0/4675
2	Q1	0.42	0/3389	0.50	0/4595
2	Q3	0.42	0/3389	0.51	0/4595
2	Q5	0.43	0/3389	0.50	0/4595
2	Q9	0.40	0/3389	0.48	0/4595
2	R1	0.41	0/3389	0.50	0/4595
2	R3	0.41	0/3398	0.51	0/4607
2	R5	0.42	0/3448	0.51	0/4675
2	R7	0.42	0/3389	0.49	0/4595
2	R9	0.42	0/3448	0.49	0/4675
2	S1	0.43	0/3404	0.55	2/4615 (0.0%)
2	S5	0.40	0/3389	0.48	0/4595
2	S7	0.42	0/3448	0.55	1/4675 (0.0%)
2	S9	0.41	0/3389	0.49	0/4595
2	T1	0.43	0/3389	0.50	0/4595
2	T3	0.44	0/3389	0.50	0/4595
2	T5	0.41	0/3389	0.49	0/4595
2	T7	0.41	0/3389	0.50	0/4595
2	U1	0.35	0/3389	0.47	0/4595
2	U3	0.37	0/3389	0.48	0/4595
2	U5	0.36	0/3389	0.48	0/4595
2	U7	0.39	0/3389	0.50	0/4595
2	U9	0.38	0/3389	0.49	0/4595
2	V1	0.38	0/3389	0.50	0/4595
2	V3	0.38	0/3389	0.49	0/4595
2	V7	0.36	0/3389	0.47	0/4595
2	V9	0.37	0/3389	0.48	0/4595
2	W1	0.38	0/3389	0.49	0/4595
2	W3	0.41	0/3389	0.50	0/4595
2	W5	0.39	0/3389	0.49	0/4595
2	W7	0.39	0/3389	0.50	0/4595
2	W9	0.43	0/3389	0.55	0/4595
2	X3	0.33	0/3389	0.49	0/4595
2	X5	0.36	0/3389	0.49	0/4595
2	X7	0.34	0/3389	0.50	1/4595 (0.0%)
2	X9	0.37	0/3389	0.49	0/4595
2	Y1	0.35	0/3389	0.49	1/4595 (0.0%)
2	Y3	0.35	0/3389	0.48	0/4595

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	Y5	0.35	0/3389	0.48	0/4595
2	Y9	0.32	0/3389	0.47	0/4595
2	Z1	0.31	0/3389	0.47	0/4595
2	Z3	0.34	0/3389	0.48	0/4595
2	Z5	0.36	0/3389	0.49	0/4595
2	Z7	0.33	0/3389	0.47	0/4595
2	Z9	0.32	0/3389	0.46	0/4595
3	3V	0.39	0/2383	0.50	0/3226
3	3X	0.38	0/2383	0.49	0/3226
3	3Z	0.38	0/2383	0.49	0/3226
3	4B	0.38	0/2383	0.49	0/3226
3	4D	0.38	0/2383	0.49	0/3226
3	4F	0.39	0/2383	0.49	0/3226
3	4H	0.38	0/2383	0.49	0/3226
3	4J	0.30	0/1682	0.47	0/2279
4	3W	0.41	0/1548	0.48	0/2090
4	3Y	0.41	0/1548	0.48	0/2090
4	4A	0.41	0/1548	0.48	0/2090
4	4C	0.41	0/1548	0.48	0/2090
4	4E	0.41	0/1548	0.48	0/2090
4	4G	0.41	0/1548	0.48	0/2090
4	4I	0.41	0/1548	0.48	0/2090
5	4L	0.34	0/1931	0.46	0/2570
5	4M	0.35	0/2638	0.45	0/3512
6	4N	0.30	0/424	0.46	0/567
6	4O	0.32	0/4020	0.43	0/5336
6	4P	0.35	0/1597	0.40	0/2126
7	4Q	0.35	0/532	0.39	0/706
7	4R	0.39	0/3021	0.47	0/4049
7	4S	0.41	0/374	0.50	0/501
7	4T	0.36	0/1592	0.43	0/2125
7	4U	0.38	1/2314 (0.0%)	0.47	1/3110 (0.0%)
8	4V	0.29	0/656	0.43	0/875
8	4W	0.30	0/2757	0.43	0/3687
8	4X	0.32	0/467	0.51	0/632
9	4Y	0.31	0/1014	0.42	0/1357
9	4Z	0.31	0/3176	0.47	0/4229
10	5A	0.33	0/1912	0.46	0/2536
10	5B	0.31	0/2081	0.44	0/2756
10	5C	0.33	0/3120	0.43	0/4136
10	5D	0.32	0/905	0.42	0/1198
11	5E	0.34	0/2021	0.51	0/2754
12	5F	0.38	0/3116	0.54	3/4267 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
12	5G	0.35	0/1148	0.54	0/1564
12	7B	0.37	0/775	0.55	0/1055
13	5H	0.39	0/1098	0.54	0/1490
13	5I	0.39	0/1098	0.54	0/1490
13	5J	0.39	0/1098	0.54	0/1490
13	5K	0.39	0/1098	0.54	0/1490
14	5L	0.40	0/4851	0.57	0/6582
14	5M	0.40	0/4851	0.57	1/6582 (0.0%)
14	5N	0.40	0/4851	0.59	1/6582 (0.0%)
15	5O	0.43	0/2991	0.62	0/4048
15	5P	0.38	0/2991	0.53	0/4048
16	5Q	0.38	0/1564	0.49	0/2126
17	5R	0.30	0/168	0.44	0/226
17	5S	0.38	0/1612	0.58	0/2177
17	5T	0.40	0/1603	0.56	0/2165
17	5U	0.37	0/1612	0.57	0/2177
17	5V	0.38	0/893	0.49	0/1198
18	5X	0.40	0/1835	0.51	0/2488
18	5Y	0.40	0/1835	0.50	0/2488
18	5Z	0.40	0/1835	0.50	0/2488
18	6A	0.40	0/1835	0.50	0/2488
18	6B	0.40	0/1835	0.50	0/2488
18	6C	0.40	0/1835	0.50	0/2488
18	6D	0.40	0/1835	0.50	0/2488
19	6E	0.42	0/1991	0.57	1/2713 (0.0%)
20	6F	0.44	0/3010	0.54	0/4102
21	6G	0.34	0/1450	0.51	0/1970
21	6H	0.31	0/1527	0.49	0/2078
22	6I	0.31	0/2678	0.46	0/3618
22	6J	0.34	0/2678	0.45	0/3618
22	6K	0.34	0/2678	0.46	0/3618
22	6L	0.37	0/2678	0.45	0/3618
22	6M	0.34	0/2678	0.45	0/3618
22	6N	0.33	0/2678	0.45	0/3618
22	6O	0.35	0/2678	0.46	0/3618
22	6P	0.31	0/2416	0.47	0/3256
23	6Q	0.42	0/710	0.55	0/957
23	6R	0.46	0/710	0.58	0/957
23	6S	0.44	0/710	0.55	0/957
24	6T	0.36	0/4696	0.49	0/6341
24	6U	0.39	0/4730	0.49	0/6389
24	6V	0.38	0/4675	0.51	0/6312
24	6W	0.40	0/4712	0.48	0/6363

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
24	6X	0.42	0/4737	0.53	0/6396
24	6Y	0.38	0/4685	0.50	0/6325
24	6Z	0.38	0/4691	0.49	0/6334
24	7A	0.37	0/1557	0.47	0/2105
25	7C	0.37	0/802	0.50	0/1074
26	7D	0.40	0/1045	0.60	1/1416 (0.1%)
26	7E	0.39	0/1045	0.58	0/1416
26	7F	0.45	0/1045	0.55	0/1416
27	7G	0.37	0/1771	0.48	0/2406
28	7H	0.37	0/1066	0.53	0/1444
28	7X	0.36	0/1066	0.53	0/1444
29	7I	0.35	0/1752	0.48	0/2377
29	7J	0.38	0/2803	0.49	0/3802
30	7K	0.34	0/3351	0.48	0/4541
30	7L	0.32	0/1358	0.46	0/1836
31	7M	0.34	0/678	0.56	1/921 (0.1%)
31	7N	0.35	0/1000	0.59	1/1359 (0.1%)
32	7O	0.33	0/448	0.53	0/603
32	7P	0.36	0/1428	0.49	0/1939
33	7Q	0.37	0/578	0.50	0/783
34	7R	0.28	0/1629	0.42	0/2171
34	7S	0.27	0/1357	0.41	0/1808
35	7T	0.29	0/1748	0.41	0/2324
35	7U	0.29	0/1486	0.40	0/1977
36	7V	0.33	0/745	0.54	0/999
36	7W	0.32	0/745	0.54	0/999
37	7Y	0.39	0/2025	0.56	0/2749
38	7Z	0.38	0/301	0.55	0/401
38	8A	0.40	0/1729	0.55	0/2316
38	8B	0.39	0/1766	0.51	0/2366
38	8C	0.40	0/1766	0.54	0/2366
38	8D	0.42	0/1342	0.57	0/1799
All	All	0.38	3/1377068 (0.0%)	0.48	37/1864119 (0.0%)

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	T6	60	VAL	CB-CG1	5.93	1.65	1.52
7	4U	113	PRO	N-CD	5.70	1.55	1.47
1	O8	281	TYR	CD2-CE2	-5.05	1.31	1.39

All (37) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D1	357	TYR	C-N-CA	-5.94	106.85	121.70
31	7N	78	HIS	CB-CA-C	5.91	122.21	110.40
2	B9	276	ILE	CG1-CB-CG2	-5.89	98.43	111.40
26	7D	128	GLY	N-CA-C	5.88	127.80	113.10
2	S1	283	HIS	CB-CA-C	5.79	121.98	110.40
2	H5	87	PHE	C-N-CA	-5.79	107.23	121.70
2	P3	87	PHE	C-N-CA	-5.78	107.25	121.70
2	X7	87	PHE	C-N-CA	-5.72	107.40	121.70
31	7M	79	PRO	N-CA-C	-5.66	97.39	112.10
1	D2	263	LEU	CA-CB-CG	5.62	128.23	115.30
2	0L	87	PHE	C-N-CA	-5.55	107.83	121.70
19	6E	27	GLU	N-CA-CB	5.54	120.58	110.60
1	2S	77	ARG	NE-CZ-NH1	-5.52	117.54	120.30
1	2A	418	LEU	CA-CB-CG	5.51	127.97	115.30
1	9	41	ASP	CB-CG-OD1	-5.49	113.36	118.30
1	1C	418	LEU	CA-CB-CG	5.47	127.87	115.30
12	5F	363	MET	N-CA-CB	-5.45	100.80	110.60
1	3M	391	ARG	NE-CZ-NH1	5.43	123.02	120.30
1	S6	263	LEU	CA-CB-CG	5.42	127.76	115.30
2	J5	87	PHE	C-N-CA	-5.39	108.22	121.70
1	N2	253	LEU	N-CA-CB	5.31	121.02	110.40
2	S7	428	LEU	CA-CB-CG	5.27	127.42	115.30
1	R2	27	GLU	N-CA-CB	5.26	120.07	110.60
2	2F	87	PHE	C-N-CA	-5.26	108.56	121.70
1	Q0	253	LEU	N-CA-CB	5.24	120.88	110.40
7	4U	12	ASP	CB-CG-OD2	5.24	123.01	118.30
14	5N	224	GLU	C-N-CA	5.20	134.70	121.70
12	5F	229	ASP	CB-CG-OD2	5.18	122.97	118.30
2	J5	46	ASP	CB-CG-OD2	5.17	122.95	118.30
12	5F	362	ASP	CB-CG-OD2	5.16	122.94	118.30
2	Y1	357	TYR	C-N-CA	-5.15	108.83	121.70
2	2D	428	LEU	CA-CB-CG	5.14	127.13	115.30
2	2X	87	PHE	C-N-CA	-5.12	108.91	121.70
14	5M	224	GLU	CB-CA-C	5.10	120.60	110.40
2	S1	280	LYS	N-CA-CB	5.07	119.73	110.60
2	2	282	TYR	CB-CA-C	5.05	120.50	110.40
1	F6	253	LEU	N-CA-CB	5.01	120.42	110.40

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	0A	3346	0	3238	108	0
1	0C	3346	0	3238	102	0
1	0E	3346	0	3240	136	0
1	0G	3346	0	3240	126	0
1	0I	3346	0	3238	117	0
1	0K	3346	0	3238	128	0
1	0M	3346	0	3238	120	0
1	0O	3346	0	3238	138	0
1	0Q	3346	0	3238	110	0
1	0S	3346	0	3238	125	0
1	0U	3346	0	3240	113	0
1	0W	3346	0	3240	113	0
1	0Y	3346	0	3238	97	0
1	1	1120	0	1071	15	0
1	1A	3346	0	3238	90	0
1	1C	3346	0	3238	106	0
1	1E	3346	0	3240	112	0
1	1G	3346	0	3238	106	0
1	1K	3346	0	3240	99	0
1	1M	3346	0	3240	97	0
1	1O	3346	0	3240	94	0
1	1Q	3346	0	3239	100	0
1	1S	3346	0	3238	83	0
1	1U	3346	0	3240	103	0
1	1W	3346	0	3238	92	0
1	2A	3346	0	3238	108	0
1	2C	3346	0	3238	97	0
1	2E	3346	0	3238	103	0
1	2G	3346	0	3238	77	0
1	2I	3346	0	3238	108	0
1	2K	3346	0	3238	76	0
1	2M	3346	0	3240	109	0
1	2Q	3346	0	3236	157	0
1	2S	3346	0	3238	86	0
1	2U	3346	0	3238	99	0
1	2W	3346	0	3239	76	0
1	2Y	3346	0	3238	121	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	3	3397	0	3275	22	0
1	3A	3346	0	3238	113	0
1	3C	3346	0	3238	143	0
1	3G	3346	0	3238	92	0
1	3I	3346	0	3239	95	0
1	3K	3346	0	3239	114	0
1	3M	3346	0	3239	106	0
1	3O	3346	0	3239	103	0
1	3Q	3346	0	3240	106	0
1	3S	3346	0	3239	148	0
1	5	3421	0	3295	32	0
1	7	3430	0	3299	17	0
1	9	3421	0	3295	32	0
1	A1	3388	0	3268	14	0
1	A3	3410	0	3286	65	0
1	A5	3370	0	3259	11	0
1	A7	3346	0	3240	14	0
1	A9	3346	0	3238	9	0
1	B1	3346	0	3240	12	0
1	B3	3346	0	3240	9	0
1	B5	3346	0	3238	12	0
1	B8	3346	0	3240	19	0
1	C0	3346	0	3238	4	0
1	C2	3346	0	3240	9	0
1	C4	3346	0	3240	6	0
1	C6	3346	0	3240	7	0
1	C8	3346	0	3239	6	0
1	D0	3346	0	3240	8	0
1	D2	3346	0	3240	6	0
1	D4	3346	0	3240	12	0
1	D6	3346	0	3240	10	0
1	D8	3346	0	3240	3	0
1	E0	3346	0	3240	11	0
1	E2	3346	0	3240	16	0
1	E4	3346	0	3238	9	0
1	E6	3346	0	3238	22	0
1	E8	3346	0	3239	12	0
1	F0	3346	0	3238	6	0
1	F2	3346	0	3240	10	0
1	F6	3346	0	3240	12	0
1	F8	3346	0	3238	11	0
1	G0	3346	0	3238	17	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	G2	3346	0	3240	123	0
1	G4	3346	0	3238	96	0
1	G6	3346	0	3240	127	0
1	G8	3346	0	3240	118	0
1	H2	3346	0	3238	98	0
1	H4	3346	0	3240	98	0
1	H6	3346	0	3238	99	0
1	H8	3346	0	3238	73	0
1	I0	3346	0	3238	98	0
1	I2	3346	0	3240	106	0
1	I4	3346	0	3237	126	0
1	I8	3346	0	3238	97	0
1	J0	3346	0	3238	89	0
1	J2	3346	0	3238	82	0
1	J4	3346	0	3238	79	0
1	J6	3346	0	3239	82	0
1	J8	3346	0	3239	70	0
1	K0	3346	0	3238	76	0
1	K4	3346	0	3239	83	0
1	K6	3346	0	3239	71	0
1	K8	3346	0	3240	83	0
1	L0	3346	0	3240	76	0
1	L2	3346	0	3238	82	0
1	L4	3346	0	3239	100	0
1	L6	3346	0	3238	110	0
1	M0	3346	0	3239	86	0
1	M2	3346	0	3238	84	0
1	M4	3346	0	3238	85	0
1	M6	3346	0	3238	119	0
1	M8	3346	0	3240	81	0
1	N0	3346	0	3238	85	0
1	N2	3346	0	3240	104	0
1	N6	3346	0	3239	85	0
1	N8	3346	0	3239	86	0
1	O0	3346	0	3238	73	0
1	O2	3346	0	3239	97	0
1	O4	3346	0	3237	101	0
1	O6	3346	0	3239	76	0
1	O8	3346	0	3239	75	0
1	P4	3346	0	3238	103	0
1	P6	3346	0	3238	69	0
1	P8	3346	0	3239	80	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	Q0	3346	0	3240	73	0
1	Q2	3346	0	3238	86	0
1	Q4	3346	0	3238	85	0
1	Q6	3346	0	3239	77	0
1	Q8	3293	0	3182	122	0
1	R0	3401	0	3278	89	0
1	R2	3346	0	3238	97	0
1	R4	3370	0	3257	102	0
1	R6	3346	0	3238	91	0
1	R8	3379	0	3264	89	0
1	S0	3346	0	3239	100	0
1	S2	3379	0	3263	96	0
1	S4	3354	0	3244	144	0
1	S6	3346	0	3240	101	0
1	S8	3346	0	3239	116	0
1	T0	3346	0	3240	107	0
1	T2	3346	0	3239	122	0
1	T4	3346	0	3238	109	0
1	T6	3346	0	3239	157	0
1	T8	3346	0	3239	99	0
1	U2	3346	0	3239	87	0
1	U4	3346	0	3238	83	0
1	U6	3346	0	3238	99	0
1	U8	3370	0	3259	89	0
1	V0	3346	0	3240	80	0
1	V2	3346	0	3238	92	0
1	V4	3346	0	3240	79	0
1	V6	3346	0	3240	135	0
1	V8	3346	0	3238	93	0
1	W0	3346	0	3238	85	0
1	W2	3346	0	3238	83	0
1	W4	3346	0	3238	93	0
1	W6	3346	0	3240	82	0
1	W8	3346	0	3238	86	0
1	X0	3346	0	3238	120	0
1	X2	3346	0	3240	124	0
1	X4	3346	0	3238	110	0
1	X6	3346	0	3238	105	0
1	X8	3346	0	3240	90	0
1	Y0	3346	0	3239	101	0
1	Y2	3346	0	3240	79	0
1	Y4	3346	0	3239	92	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	Y6	3346	0	3239	74	0
1	Y8	3346	0	3240	130	0
1	Z0	3346	0	3238	135	0
1	Z2	3346	0	3239	131	0
1	Z4	3346	0	3240	110	0
1	Z6	3346	0	3238	116	0
1	Z8	3346	0	3240	142	0
2	0B	3318	0	3259	112	0
2	0F	3318	0	3259	123	0
2	0H	3318	0	3259	118	0
2	0J	3318	0	3259	122	0
2	0L	3318	0	3259	129	0
2	0N	3318	0	3259	138	0
2	0P	3318	0	3259	101	0
2	0R	3318	0	3259	125	0
2	0V	3318	0	3259	122	0
2	0X	3318	0	3259	116	0
2	0Z	3318	0	3259	124	0
2	1B	3318	0	3259	96	0
2	1D	3318	0	3259	123	0
2	1F	3318	0	3259	125	0
2	1H	3318	0	3259	123	0
2	1L	3318	0	3259	101	0
2	1N	3318	0	3259	116	0
2	1P	3318	0	3259	93	0
2	1R	3318	0	3259	111	0
2	1T	3318	0	3259	95	0
2	1V	3318	0	3259	114	0
2	1X	3318	0	3259	110	0
2	1Z	3318	0	3259	118	0
2	2	3376	0	3313	19	0
2	2B	3318	0	3259	95	0
2	2D	3318	0	3259	85	0
2	2F	3318	0	3259	106	0
2	2H	3318	0	3259	124	0
2	2J	3318	0	3259	95	0
2	2L	3318	0	3259	96	0
2	2N	3318	0	3259	123	0
2	2P	3318	0	3259	118	0
2	2R	3318	0	3259	85	0
2	2T	3318	0	3259	107	0
2	2V	3318	0	3259	95	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	2X	3385	0	3319	112	0
2	2Z	3318	0	3259	130	0
2	3B	3383	0	3314	142	0
2	3D	3318	0	3259	124	0
2	3F	3318	0	3259	95	0
2	3H	3318	0	3259	96	0
2	3J	3318	0	3259	90	0
2	3L	3318	0	3259	82	0
2	3N	3318	0	3259	99	0
2	3P	3318	0	3259	102	0
2	3R	3385	0	3319	110	0
2	3T	3318	0	3259	139	0
2	4	3376	0	3313	32	0
2	6	3376	0	3313	10	0
2	8	3376	0	3312	56	0
2	A0	3376	0	3313	13	0
2	A2	3376	0	3312	69	0
2	A4	3376	0	3313	12	0
2	A8	3318	0	3259	8	0
2	B0	3318	0	3259	8	0
2	B2	3318	0	3259	8	0
2	B4	3318	0	3259	9	0
2	B7	3318	0	3259	10	0
2	B9	3318	0	3259	9	0
2	C1	3318	0	3259	7	0
2	C5	3376	0	3313	14	0
2	C7	3376	0	3313	4	0
2	C9	3318	0	3259	8	0
2	D1	3318	0	3259	6	0
2	D3	3324	0	3264	4	0
2	D5	3318	0	3259	9	0
2	D7	3324	0	3264	10	0
2	E1	3324	0	3264	9	0
2	E3	3318	0	3259	7	0
2	E5	3318	0	3259	31	0
2	E7	3324	0	3264	26	0
2	E9	3318	0	3259	17	0
2	F1	3318	0	3259	11	0
2	F3	3318	0	3259	11	0
2	F5	3318	0	3259	11	0
2	F7	3318	0	3259	12	0
2	F9	3376	0	3313	12	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	G1	3376	0	3313	70	0
2	G3	3376	0	3313	133	0
2	G5	3318	0	3259	107	0
2	G7	3318	0	3259	116	0
2	G9	3318	0	3259	149	0
2	H1	3318	0	3259	117	0
2	H3	3318	0	3259	107	0
2	H5	3318	0	3259	86	0
2	H7	3318	0	3259	85	0
2	H9	3318	0	3259	83	0
2	I1	3318	0	3259	104	0
2	I3	3318	0	3259	96	0
2	I5	3318	0	3259	135	0
2	I7	3332	0	3268	106	0
2	I9	3324	0	3264	110	0
2	J1	3318	0	3259	108	0
2	J3	3326	0	3263	103	0
2	J5	3385	0	3319	101	0
2	J7	3318	0	3259	128	0
2	J9	3385	0	3319	127	0
2	K1	3318	0	3259	135	0
2	K3	3318	0	3259	106	0
2	K5	3318	0	3259	85	0
2	K7	3318	0	3259	86	0
2	K9	3318	0	3259	89	0
2	L1	3318	0	3259	72	0
2	L3	3318	0	3259	115	0
2	L5	3318	0	3259	99	0
2	L7	3318	0	3259	124	0
2	L9	3318	0	3259	82	0
2	M1	3318	0	3259	86	0
2	M3	3376	0	3313	129	0
2	M5	3318	0	3259	110	0
2	M7	3376	0	3313	106	0
2	M9	3385	0	3319	115	0
2	N1	3324	0	3264	106	0
2	N3	3318	0	3259	128	0
2	N5	3318	0	3259	96	0
2	N7	3318	0	3259	105	0
2	N9	3318	0	3259	105	0
2	O1	3318	0	3259	92	0
2	O3	3318	0	3259	125	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	O5	3318	0	3259	108	0
2	O7	3340	0	3274	122	0
2	O9	3318	0	3259	78	0
2	P3	3318	0	3259	95	0
2	P5	3376	0	3313	112	0
2	P7	3318	0	3259	82	0
2	P9	3376	0	3313	92	0
2	Q1	3318	0	3259	70	0
2	Q3	3318	0	3259	96	0
2	Q5	3318	0	3259	94	0
2	Q9	3318	0	3259	111	0
2	R1	3318	0	3259	95	0
2	R3	3327	0	3265	83	0
2	R5	3376	0	3313	100	0
2	R7	3318	0	3259	81	0
2	R9	3376	0	3313	102	0
2	S1	3333	0	3270	98	0
2	S5	3318	0	3259	86	0
2	S7	3376	0	3313	105	0
2	S9	3318	0	3259	110	0
2	T1	3318	0	3259	107	0
2	T3	3318	0	3259	94	0
2	T5	3318	0	3259	100	0
2	T7	3318	0	3259	98	0
2	U1	3318	0	3259	83	0
2	U3	3318	0	3259	72	0
2	U5	3318	0	3259	89	0
2	U7	3318	0	3259	83	0
2	U9	3318	0	3259	113	0
2	V1	3318	0	3259	101	0
2	V3	3318	0	3259	94	0
2	V7	3318	0	3259	102	0
2	V9	3318	0	3259	85	0
2	W1	3318	0	3259	98	0
2	W3	3318	0	3259	80	0
2	W5	3318	0	3259	76	0
2	W7	3318	0	3259	118	0
2	W9	3318	0	3259	150	0
2	X3	3318	0	3259	124	0
2	X5	3318	0	3259	115	0
2	X7	3318	0	3259	121	0
2	X9	3318	0	3259	98	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	Y1	3318	0	3259	95	0
2	Y3	3318	0	3259	116	0
2	Y5	3318	0	3259	102	0
2	Y9	3318	0	3259	118	0
2	Z1	3318	0	3259	105	0
2	Z3	3318	0	3259	119	0
2	Z5	3318	0	3259	128	0
2	Z7	3318	0	3259	116	0
2	Z9	3318	0	3259	108	0
3	3V	2329	0	2356	83	0
3	3X	2329	0	2356	90	0
3	3Z	2329	0	2356	79	0
3	4B	2329	0	2356	76	0
3	4D	2329	0	2356	84	0
3	4F	2329	0	2356	86	0
3	4H	2329	0	2356	84	0
3	4J	1643	0	1662	50	0
4	3W	1515	0	1526	49	0
4	3Y	1515	0	1526	46	0
4	4A	1515	0	1526	43	0
4	4C	1515	0	1526	47	0
4	4E	1515	0	1526	42	0
4	4G	1515	0	1526	51	0
4	4I	1515	0	1526	43	0
5	4L	1921	0	1936	75	0
5	4M	2622	0	2653	110	0
6	4N	422	0	422	13	0
6	4O	3995	0	3956	111	0
6	4P	1588	0	1574	37	0
7	4Q	525	0	521	15	0
7	4R	2982	0	2914	102	0
7	4S	371	0	380	20	0
7	4T	1574	0	1556	42	0
7	4U	2285	0	2221	66	0
8	4V	653	0	667	19	0
8	4W	2750	0	2805	116	0
8	4X	462	0	459	48	0
9	4Y	1004	0	1032	28	0
9	4Z	3158	0	3201	130	0
10	5A	1902	0	1930	65	0
10	5B	2074	0	2132	82	0
10	5C	3103	0	3156	110	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
10	5D	901	0	914	26	0
11	5E	1981	0	1969	58	0
12	5F	3020	0	2948	105	0
12	5G	1123	0	1132	34	0
12	7B	753	0	735	41	0
13	5H	1069	0	1048	45	0
13	5I	1069	0	1048	49	0
13	5J	1069	0	1048	44	0
13	5K	1069	0	1048	50	0
14	5L	4757	0	4692	251	0
14	5M	4757	0	4691	242	0
14	5N	4757	0	4692	244	0
15	5O	2927	0	2895	247	0
15	5P	2927	0	2895	188	0
16	5Q	1523	0	1453	78	0
17	5R	162	0	149	8	0
17	5S	1572	0	1577	63	0
17	5T	1563	0	1571	66	0
17	5U	1572	0	1577	62	0
17	5V	879	0	901	39	0
18	5X	1793	0	1800	78	0
18	5Y	1793	0	1800	72	0
18	5Z	1793	0	1800	66	0
18	6A	1793	0	1800	74	0
18	6B	1793	0	1800	72	0
18	6C	1793	0	1800	75	0
18	6D	1793	0	1800	66	0
19	6E	1952	0	1910	117	0
20	6F	2950	0	2946	111	0
21	6G	1420	0	1394	35	0
21	6H	1493	0	1466	64	0
22	6I	2617	0	2556	66	0
22	6J	2617	0	2556	70	0
22	6K	2617	0	2556	80	0
22	6L	2617	0	2556	98	0
22	6M	2617	0	2556	81	0
22	6N	2617	0	2556	79	0
22	6O	2617	0	2556	78	0
22	6P	2366	0	2311	84	0
23	6Q	694	0	690	30	0
23	6R	694	0	690	41	0
23	6S	694	0	690	27	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
24	6T	4590	0	4521	203	0
24	6U	4623	0	4558	209	0
24	6V	4569	0	4501	195	0
24	6W	4606	0	4538	187	0
24	6X	4631	0	4566	291	0
24	6Y	4579	0	4515	206	0
24	6Z	4585	0	4516	200	0
24	7A	1518	0	1462	61	0
25	7C	794	0	816	30	0
26	7D	1016	0	993	80	0
26	7E	1016	0	993	82	0
26	7F	1016	0	994	133	0
27	7G	1728	0	1670	91	0
28	7H	1046	0	1046	53	0
28	7X	1046	0	1046	64	0
29	7I	1716	0	1685	72	0
29	7J	2741	0	2638	165	0
30	7K	3276	0	3173	165	0
30	7L	1333	0	1289	36	0
31	7M	662	0	657	40	0
31	7N	977	0	965	54	0
32	7O	443	0	425	22	0
32	7P	1398	0	1368	40	0
33	7Q	567	0	551	27	0
34	7R	1619	0	1650	45	0
34	7S	1347	0	1357	33	0
35	7T	1738	0	1787	53	0
35	7U	1476	0	1506	34	0
36	7V	735	0	696	33	0
36	7W	735	0	696	42	0
37	7Y	1971	0	1898	143	0
38	7Z	298	0	291	35	0
38	8A	1691	0	1638	195	0
38	8B	1728	0	1666	168	0
38	8C	1728	0	1666	193	0
38	8D	1311	0	1252	139	0
39	0A	28	0	12	1	0
39	0C	28	0	12	2	0
39	0E	28	0	12	3	0
39	0G	28	0	12	2	0
39	0I	28	0	12	1	0
39	0K	28	0	12	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
39	0M	28	0	12	1	0
39	0O	28	0	12	1	0
39	0Q	28	0	12	1	0
39	0S	28	0	12	2	0
39	0U	28	0	12	1	0
39	0W	28	0	12	2	0
39	0Y	28	0	12	1	0
39	1A	28	0	12	2	0
39	1C	28	0	12	1	0
39	1E	28	0	12	0	0
39	1G	28	0	12	0	0
39	1K	28	0	12	1	0
39	1M	28	0	12	1	0
39	1O	28	0	12	1	0
39	1Q	28	0	12	1	0
39	1S	28	0	12	1	0
39	1U	28	0	12	0	0
39	1W	28	0	12	2	0
39	2	28	0	12	0	0
39	2A	28	0	12	0	0
39	2C	28	0	12	1	0
39	2E	28	0	12	1	0
39	2G	28	0	12	3	0
39	2I	28	0	12	0	0
39	2K	28	0	12	2	0
39	2M	28	0	12	2	0
39	2Q	28	0	12	0	0
39	2S	28	0	12	0	0
39	2U	28	0	12	0	0
39	2W	28	0	12	0	0
39	2Y	28	0	12	0	0
39	3	28	0	12	2	0
39	3A	28	0	12	1	0
39	3C	28	0	12	1	0
39	3G	28	0	12	0	0
39	3I	28	0	12	1	0
39	3K	28	0	12	1	0
39	3M	28	0	12	0	0
39	3O	28	0	12	1	0
39	3Q	28	0	12	1	0
39	3S	28	0	12	1	0
39	5	28	0	12	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
39	7	28	0	12	3	0
39	9	28	0	12	1	0
39	A1	28	0	12	0	0
39	A3	28	0	12	0	0
39	A5	28	0	12	1	0
39	A7	28	0	12	2	0
39	A9	28	0	12	0	0
39	B1	28	0	12	1	0
39	B3	28	0	12	1	0
39	B5	28	0	12	0	0
39	B8	28	0	12	2	0
39	C0	28	0	12	0	0
39	C2	28	0	12	0	0
39	C4	28	0	12	3	0
39	C6	28	0	12	3	0
39	C8	28	0	12	3	0
39	D0	28	0	12	5	0
39	D2	28	0	12	2	0
39	D4	28	0	12	3	0
39	D6	28	0	12	3	0
39	D8	28	0	12	1	0
39	E0	28	0	12	4	0
39	E2	28	0	12	2	0
39	E4	28	0	12	0	0
39	E6	28	0	12	1	0
39	E8	28	0	12	1	0
39	F0	28	0	12	2	0
39	F2	28	0	12	3	0
39	F6	28	0	12	0	0
39	F8	28	0	12	0	0
39	G0	28	0	12	0	0
39	G2	28	0	12	0	0
39	G4	28	0	12	1	0
39	G6	28	0	12	0	0
39	G8	28	0	12	1	0
39	H2	28	0	12	1	0
39	H4	28	0	12	1	0
39	H6	28	0	12	1	0
39	H8	28	0	12	0	0
39	I0	28	0	12	0	0
39	I2	28	0	12	0	0
39	I4	28	0	12	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
39	I8	28	0	12	0	0
39	J0	28	0	12	0	0
39	J2	28	0	12	1	0
39	J4	28	0	12	0	0
39	J6	28	0	12	1	0
39	J8	28	0	12	1	0
39	K0	28	0	12	0	0
39	K4	28	0	12	1	0
39	K6	28	0	12	0	0
39	K8	28	0	12	0	0
39	L0	28	0	12	0	0
39	L2	28	0	12	1	0
39	L4	28	0	12	2	0
39	L6	28	0	12	1	0
39	M0	28	0	12	0	0
39	M2	28	0	12	0	0
39	M4	28	0	12	0	0
39	M6	28	0	12	0	0
39	M8	28	0	12	0	0
39	N0	28	0	12	0	0
39	N2	28	0	12	1	0
39	N6	28	0	12	2	0
39	N8	28	0	12	3	0
39	O0	28	0	12	0	0
39	O2	28	0	12	2	0
39	O4	28	0	12	0	0
39	O6	28	0	12	1	0
39	O8	28	0	12	1	0
39	P4	28	0	12	1	0
39	P6	28	0	12	0	0
39	P8	28	0	12	2	0
39	Q0	28	0	12	0	0
39	Q2	28	0	12	1	0
39	Q4	28	0	12	1	0
39	Q6	28	0	12	2	0
39	Q8	28	0	12	0	0
39	R0	28	0	12	0	0
39	R2	28	0	12	0	0
39	R4	28	0	12	1	0
39	R6	28	0	12	1	0
39	R8	28	0	12	0	0
39	S0	28	0	12	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
39	S2	28	0	12	1	0
39	S4	28	0	12	1	0
39	S6	28	0	12	0	0
39	S8	28	0	12	1	0
39	T0	28	0	12	2	0
39	T2	28	0	12	0	0
39	T4	28	0	12	0	0
39	T6	28	0	12	3	0
39	T8	28	0	12	0	0
39	U2	28	0	12	1	0
39	U4	28	0	12	0	0
39	U6	28	0	12	0	0
39	U8	28	0	12	0	0
39	V0	28	0	12	0	0
39	V2	28	0	12	0	0
39	V4	28	0	12	1	0
39	V6	28	0	12	1	0
39	V8	28	0	12	1	0
39	W0	28	0	12	2	0
39	W2	28	0	12	1	0
39	W4	28	0	12	0	0
39	W6	28	0	12	0	0
39	W8	28	0	12	2	0
39	X0	28	0	12	2	0
39	X2	28	0	12	3	0
39	X4	28	0	12	2	0
39	X6	28	0	12	3	0
39	X8	28	0	12	1	0
39	Y0	28	0	12	2	0
39	Y2	28	0	12	2	0
39	Y4	28	0	12	3	0
39	Y6	28	0	12	2	0
39	Y8	28	0	12	2	0
39	Z0	28	0	12	2	0
39	Z2	28	0	12	3	0
39	Z4	28	0	12	1	0
39	Z6	28	0	12	2	0
39	Z8	28	0	12	3	0
40	0A	1	0	0	0	0
40	0B	1	0	0	0	0
40	0F	1	0	0	0	0
40	0H	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
40	0J	1	0	0	0	0
40	0L	1	0	0	0	0
40	0N	1	0	0	0	0
40	0P	1	0	0	0	0
40	0R	1	0	0	0	0
40	0W	1	0	0	0	0
40	0X	1	0	0	0	0
40	1A	1	0	0	0	0
40	1B	1	0	0	0	0
40	1D	1	0	0	0	0
40	1F	1	0	0	0	0
40	1H	1	0	0	0	0
40	1L	1	0	0	0	0
40	1N	1	0	0	0	0
40	1P	1	0	0	0	0
40	1R	1	0	0	0	0
40	1T	1	0	0	0	0
40	1V	1	0	0	0	0
40	1X	1	0	0	0	0
40	1Z	1	0	0	0	0
40	2	1	0	0	0	0
40	2B	1	0	0	0	0
40	2D	1	0	0	0	0
40	2F	1	0	0	0	0
40	2H	1	0	0	0	0
40	2J	1	0	0	0	0
40	2L	1	0	0	0	0
40	2N	1	0	0	0	0
40	2P	1	0	0	0	0
40	2R	1	0	0	0	0
40	2T	1	0	0	0	0
40	2V	1	0	0	0	0
40	2X	1	0	0	0	0
40	2Z	1	0	0	0	0
40	3B	1	0	0	0	0
40	3D	1	0	0	0	0
40	3F	1	0	0	0	0
40	3H	1	0	0	0	0
40	3K	1	0	0	0	0
40	3L	1	0	0	0	0
40	3N	1	0	0	0	0
40	3P	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
40	3R	1	0	0	0	0
40	3T	1	0	0	0	0
40	4	1	0	0	0	0
40	6	1	0	0	0	0
40	8	1	0	0	0	0
40	A0	1	0	0	0	0
40	A2	1	0	0	0	0
40	A4	1	0	0	0	0
40	A8	1	0	0	0	0
40	B0	1	0	0	0	0
40	B2	1	0	0	0	0
40	B4	1	0	0	0	0
40	B7	1	0	0	0	0
40	B9	1	0	0	0	0
40	C1	1	0	0	0	0
40	C5	1	0	0	0	0
40	C7	1	0	0	0	0
40	C9	1	0	0	0	0
40	D1	1	0	0	0	0
40	D3	1	0	0	0	0
40	D5	1	0	0	0	0
40	D7	1	0	0	0	0
40	E1	1	0	0	0	0
40	E3	1	0	0	0	0
40	E5	1	0	0	0	0
40	E7	1	0	0	0	0
40	E9	1	0	0	0	0
40	F1	1	0	0	0	0
40	F3	1	0	0	0	0
40	F5	1	0	0	0	0
40	F7	1	0	0	0	0
40	F9	1	0	0	0	0
40	G1	1	0	0	0	0
40	G3	1	0	0	0	0
40	G5	1	0	0	0	0
40	G7	1	0	0	0	0
40	G9	1	0	0	0	0
40	H2	1	0	0	0	0
40	H3	1	0	0	0	0
40	H5	1	0	0	0	0
40	H8	1	0	0	0	0
40	H9	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
40	I1	1	0	0	0	0
40	I3	1	0	0	0	0
40	I5	1	0	0	0	0
40	I7	1	0	0	0	0
40	I9	1	0	0	0	0
40	J1	1	0	0	0	0
40	J4	1	0	0	0	0
40	J5	1	0	0	0	0
40	J7	1	0	0	0	0
40	J9	1	0	0	0	0
40	K1	1	0	0	0	0
40	K3	1	0	0	0	0
40	K5	1	0	0	0	0
40	K7	1	0	0	0	0
40	K9	1	0	0	0	0
40	L1	1	0	0	0	0
40	L3	1	0	0	0	0
40	L5	1	0	0	0	0
40	L7	1	0	0	0	0
40	L9	1	0	0	0	0
40	M1	1	0	0	0	0
40	M3	1	0	0	0	0
40	M5	1	0	0	0	0
40	M7	1	0	0	0	0
40	M9	1	0	0	0	0
40	N1	1	0	0	0	0
40	N3	1	0	0	0	0
40	N6	1	0	0	0	0
40	N7	1	0	0	0	0
40	O0	1	0	0	0	0
40	O1	1	0	0	0	0
40	O3	1	0	0	0	0
40	O5	1	0	0	0	0
40	O8	1	0	0	0	0
40	O9	1	0	0	0	0
40	P4	1	0	0	0	0
40	P6	1	0	0	0	0
40	P7	1	0	0	0	0
40	P9	1	0	0	0	0
40	Q1	1	0	0	0	0
40	Q3	1	0	0	0	0
40	Q5	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
40	Q9	1	0	0	0	0
40	R1	1	0	0	0	0
40	R3	1	0	0	0	0
40	R6	1	0	0	0	0
40	R7	1	0	0	0	0
40	R9	1	0	0	0	0
40	S1	1	0	0	0	0
40	S5	1	0	0	0	0
40	S7	1	0	0	0	0
40	S9	1	0	0	0	0
40	T1	1	0	0	0	0
40	T3	1	0	0	0	0
40	T5	1	0	0	0	0
40	T7	1	0	0	0	0
40	U1	1	0	0	0	0
40	U3	1	0	0	0	0
40	U5	1	0	0	0	0
40	U7	1	0	0	0	0
40	U9	1	0	0	0	0
40	V2	1	0	0	0	0
40	V3	1	0	0	0	0
40	V7	1	0	0	0	0
40	V9	1	0	0	0	0
40	W2	1	0	0	0	0
40	W3	1	0	0	0	0
40	W5	1	0	0	0	0
40	W8	1	0	0	0	0
40	W9	1	0	0	0	0
40	X3	1	0	0	0	0
40	X5	1	0	0	0	0
40	X7	1	0	0	0	0
40	X9	1	0	0	0	0
40	Y1	1	0	0	0	0
40	Y3	1	0	0	0	0
40	Y5	1	0	0	0	0
40	Y9	1	0	0	0	0
40	Z2	1	0	0	0	0
40	Z3	1	0	0	0	0
40	Z5	1	0	0	0	0
40	Z7	1	0	0	0	0
41	0A	32	0	12	2	0
41	0C	32	0	12	3	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
41	0F	32	0	12	3	0
41	0I	32	0	12	3	0
41	0K	32	0	12	2	0
41	0M	32	0	12	3	0
41	0O	32	0	12	2	0
41	0Q	32	0	12	3	0
41	0S	32	0	12	2	0
41	0V	32	0	12	1	0
41	0Y	32	0	12	1	0
41	1A	32	0	12	1	0
41	1C	32	0	12	1	0
41	1D	32	0	12	1	0
41	1G	32	0	12	1	0
41	1H	32	0	12	2	0
41	1L	32	0	12	1	0
41	1N	32	0	12	1	0
41	1Q	32	0	12	1	0
41	1S	32	0	12	1	0
41	1T	32	0	12	1	0
41	1W	32	0	12	1	0
41	1X	32	0	12	1	0
41	2A	32	0	12	0	0
41	2C	32	0	12	2	0
41	2E	32	0	12	2	0
41	2G	32	0	12	2	0
41	2I	32	0	12	1	0
41	2K	32	0	12	0	0
41	2L	32	0	12	1	0
41	2N	32	0	12	1	0
41	2Q	32	0	12	1	0
41	2S	32	0	12	0	0
41	2U	32	0	12	1	0
41	2W	32	0	12	1	0
41	2Y	32	0	12	0	0
41	3	32	0	12	1	0
41	3A	32	0	12	0	0
41	3C	32	0	12	0	0
41	3D	32	0	12	2	0
41	3G	32	0	12	0	0
41	3I	32	0	12	0	0
41	3K	32	0	12	0	0
41	3M	32	0	12	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
41	3O	32	0	12	1	0
41	3P	32	0	12	0	0
41	3S	32	0	12	0	0
41	3T	32	0	12	0	0
41	4	32	0	12	1	0
41	7	32	0	12	0	0
41	8	32	0	12	1	0
41	A1	32	0	12	2	0
41	A2	32	0	12	1	0
41	A4	32	0	12	2	0
41	A9	32	0	12	1	0
41	B0	32	0	12	2	0
41	B2	32	0	12	0	0
41	B5	32	0	12	2	0
41	B7	32	0	12	1	0
41	C0	32	0	12	2	0
41	C1	32	0	12	2	0
41	C5	32	0	12	2	0
41	C8	32	0	12	1	0
41	C9	32	0	12	5	0
41	D1	32	0	12	1	0
41	D3	32	0	12	2	0
41	D5	32	0	12	1	0
41	D7	32	0	12	2	0
41	E1	32	0	12	3	0
41	E4	32	0	12	1	0
41	E6	32	0	12	2	0
41	E8	32	0	12	3	0
41	F0	32	0	12	2	0
41	F1	32	0	12	1	0
41	F3	32	0	12	2	0
41	F5	32	0	12	2	0
41	F8	32	0	12	1	0
41	G0	32	0	12	3	0
41	G1	32	0	12	2	0
41	G4	32	0	12	2	0
41	G5	32	0	12	3	0
41	G7	32	0	12	2	0
41	G9	32	0	12	1	0
41	H2	32	0	12	1	0
41	H3	32	0	12	1	0
41	H6	32	0	12	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
41	H8	32	0	12	1	0
41	I0	32	0	12	1	0
41	I1	32	0	12	1	0
41	I4	32	0	12	2	0
41	I5	32	0	12	0	0
41	I8	32	0	12	1	0
41	J0	32	0	12	1	0
41	J2	32	0	12	1	0
41	J4	32	0	12	1	0
41	J6	32	0	12	1	0
41	J8	32	0	12	1	0
41	K0	32	0	12	2	0
41	K1	32	0	12	0	0
41	K4	32	0	12	2	0
41	K6	32	0	12	3	0
41	K7	32	0	12	2	0
41	K9	32	0	12	2	0
41	L2	32	0	12	2	0
41	L4	32	0	12	3	0
41	L6	32	0	12	1	0
41	L7	32	0	12	0	0
41	M0	32	0	12	0	0
41	M2	32	0	12	0	0
41	M4	32	0	12	0	0
41	M6	32	0	12	0	0
41	M7	32	0	12	1	0
41	N0	32	0	12	1	0
41	N1	32	0	12	0	0
41	N3	32	0	12	0	0
41	N6	32	0	12	3	0
41	N8	32	0	12	2	0
41	O0	32	0	12	1	0
41	O2	32	0	12	0	0
41	O4	32	0	12	2	0
41	O6	32	0	12	1	0
41	O8	32	0	12	1	0
41	O9	32	0	12	1	0
41	P4	32	0	12	3	0
41	P6	32	0	12	2	0
41	P8	32	0	12	2	0
41	P9	32	0	12	2	0
41	Q2	32	0	12	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
41	Q4	32	0	12	1	0
41	Q6	32	0	12	1	0
41	R0	32	0	12	1	0
41	R2	32	0	12	1	0
41	R4	32	0	12	0	0
41	R6	32	0	12	1	0
41	R8	32	0	12	0	0
41	S0	32	0	12	1	0
41	S2	32	0	12	1	0
41	S5	32	0	12	0	0
41	S8	32	0	12	1	0
41	S9	32	0	12	2	0
41	T2	32	0	12	2	0
41	T4	32	0	12	3	0
41	T6	32	0	12	3	0
41	T8	32	0	12	2	0
41	U2	32	0	12	0	0
41	U4	32	0	12	1	0
41	U6	32	0	12	1	0
41	U7	32	0	12	0	0
41	U9	32	0	12	0	0
41	V2	32	0	12	0	0
41	V3	32	0	12	0	0
41	V8	32	0	12	0	0
41	W0	32	0	12	0	0
41	W2	32	0	12	0	0
41	W4	32	0	12	0	0
41	W5	32	0	12	1	0
41	W8	32	0	12	0	0
41	X0	32	0	12	1	0
41	X4	32	0	12	3	0
41	X6	32	0	12	3	0
41	X7	32	0	12	2	0
41	Y0	32	0	12	3	0
41	Y1	32	0	12	2	0
41	Y4	32	0	12	2	0
41	Y6	32	0	12	2	0
41	Z0	32	0	12	1	0
41	Z2	32	0	12	2	0
41	Z3	32	0	12	2	0
41	Z6	32	0	12	2	0
41	Z7	32	0	12	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	1358547	0	1321887	33425	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 12.

All (33425) 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)
1:3S:362:LYS:CE	38:8D:166:GLU:HG3	1.25	1.64
2:E5:282:TYR:CZ	22:6K:82:LEU:HD23	1.38	1.57
24:6X:451:LYS:CD	24:6X:468:ARG:HH12	1.02	1.56
2:S1:88:HIS:CD2	2:S1:89:PRO:HD2	1.42	1.51
2:E5:282:TYR:CE1	22:6K:82:LEU:CD2	1.93	1.49
2:T7:88:HIS:CD2	2:T7:89:PRO:HD2	1.45	1.48
2:2Z:297:GLU:CD	38:8C:74:ILE:HG22	1.21	1.48
2:E5:282:TYR:CE1	22:6K:82:LEU:HD22	1.47	1.47
38:8B:85:ARG:NH1	38:8B:87:LYS:HD3	1.26	1.45
2:3B:339:ARG:HE	38:8C:39:LYS:NZ	0.97	1.44
2:G3:42:ILE:HD11	24:6W:470:ILE:CD1	1.47	1.43
2:0Z:58:ALA:N	9:4Z:165:ARG:HH22	1.08	1.43
2:K5:219:ILE:HG23	29:7I:14:LEU:CD1	1.48	1.43
1:A3:227:HIS:CE1	26:7F:133:PHE:O	1.71	1.42
2:3B:339:ARG:NE	38:8C:39:LYS:HZ1	1.14	1.41
1:5:227:HIS:CE1	26:7D:133:PHE:O	1.70	1.41
2:1N:313:MET:CE	2:1N:346:TRP:CZ2	2.01	1.41
2:8:370:LYS:CE	24:6W:92:ASP:OD1	1.65	1.41
2:0Z:58:ALA:HB3	9:4Z:165:ARG:NH1	1.20	1.40
2:0Z:58:ALA:H	9:4Z:165:ARG:NH2	1.17	1.40
2:0Z:58:ALA:CB	9:4Z:165:ARG:NH1	1.85	1.40
2:Z5:88:HIS:CD2	2:Z5:89:PRO:HD2	1.56	1.39
1:2I:118:ASP:HB3	38:8C:99:THR:CG2	1.50	1.39
1:R2:92:PHE:CE2	24:6V:35:TYR:CE1	2.11	1.38
2:A2:370:LYS:CE	24:6Y:92:ASP:OD1	1.71	1.38
2:E7:282:TYR:CZ	22:6L:82:LEU:HD23	1.58	1.38
1:2Q:320:ARG:CZ	38:8A:198:THR:HG22	1.55	1.37
2:0L:313:MET:CE	2:0L:346:TRP:HZ2	1.38	1.36
15:5O:6:ARG:HD3	15:5O:27:PHE:CD2	1.60	1.36
2:M3:359:PRO:CB	30:7K:212:ARG:HH21	1.35	1.35
1:2Q:320:ARG:NH2	38:8A:198:THR:HG22	1.36	1.35
2:J3:357:TYR:CB	16:5Q:173:ARG:HE	1.21	1.35
1:S2:80:PRO:CD	7:4S:11:GLU:OE1	1.73	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1R:313:MET:CE	2:1R:346:TRP:CZ2	2.09	1.34
14:5M:291:GLU:OE2	14:5M:317:ASN:ND2	1.59	1.33
1:E6:52:ASN:CA	22:6L:181:ASN:ND2	1.92	1.33
2:G3:42:ILE:CD1	24:6W:470:ILE:HD11	1.56	1.33
24:6X:451:LYS:HD2	24:6X:468:ARG:NH1	1.03	1.32
2:E5:282:TYR:CZ	22:6K:82:LEU:CD2	2.02	1.32
14:5N:210:TYR:CE1	14:5N:220:GLN:HG3	1.64	1.32
1:2Q:306:ARG:NH2	38:8A:99:THR:O	1.58	1.32
1:3S:362:LYS:CE	38:8D:166:GLU:CG	2.08	1.32
1:3S:362:LYS:HE3	38:8D:166:GLU:CG	1.58	1.31
1:9:227:HIS:CE1	26:7E:133:PHE:O	1.82	1.31
2:K5:279:GLU:OE2	29:7I:24:PRO:CD	1.65	1.31
2:J7:282:TYR:CD1	5:4M:209:LEU:HD21	1.66	1.31
1:2Q:306:ARG:NH2	38:8A:96:GLY:O	1.60	1.30
14:5M:219:LEU:HD11	14:5M:228:PHE:CD2	1.65	1.30
1:3C:58:ARG:NH2	38:8D:158:MET:SD	2.05	1.29
2:M9:282:TYR:CD1	30:7K:25:ALA:HB2	1.65	1.29
1:5:219:THR:OG1	26:7D:142:PHE:CE1	1.73	1.29
1:L6:41:ASP:OD1	29:7J:167:ILE:CD1	1.77	1.29
1:2E:95:THR:CG2	38:8B:83:ARG:HH12	1.44	1.29
1:H4:276:ARG:NH2	24:6U:489:ASN:O	1.67	1.28
2:0Z:58:ALA:H	9:4Z:165:ARG:CZ	1.43	1.28
2:Q5:60:LYS:HE3	2:S1:283:HIS:NE2	1.45	1.28
38:8A:91:GLN:HB3	38:8A:102:PHE:CD1	1.69	1.28
2:Q5:60:LYS:CE	2:S1:283:HIS:NE2	1.96	1.27
1:S0:92:PHE:CE2	24:6Z:40:GLN:NE2	1.98	1.27
2:Y3:282:TYR:CD2	8:4W:373:ASN:ND2	2.00	1.27
15:5O:52:TYR:CD2	15:5O:55:LEU:HD21	1.68	1.27
2:W9:88:HIS:CD2	2:W9:121:ARG:HH22	1.51	1.27
1:I4:218:THR:CG2	24:6Z:488:ARG:O	1.81	1.27
1:E6:52:ASN:CA	22:6L:181:ASN:HD22	1.46	1.26
2:1R:313:MET:HE1	2:1R:346:TRP:CZ2	1.68	1.26
1:R2:92:PHE:CE2	24:6V:35:TYR:HE1	1.46	1.26
1:I4:276:ARG:HD2	24:6Z:490:THR:O	1.36	1.26
24:6X:316:ASP:OD2	24:6X:317:PRO:HD2	1.24	1.26
2:A0:44:GLY:N	24:6X:124:TYR:OH	1.69	1.25
2:A2:29:GLY:C	26:7F:45:MET:CE	2.05	1.25
2:E5:282:TYR:CE2	22:6K:82:LEU:HD23	1.70	1.25
2:P5:42:ILE:HD11	27:7G:213:TRP:CZ3	1.72	1.25
2:P5:88:HIS:ND1	2:P5:89:PRO:HD2	1.52	1.25
2:8:220:GLU:OE2	26:7E:81:LYS:HD2	1.33	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2E:95:THR:HG21	38:8B:83:ARG:NH1	1.50	1.24
2:E5:282:TYR:CG	22:6K:82:LEU:HD21	1.72	1.24
2:1N:313:MET:HE1	2:1N:346:TRP:CH2	1.73	1.23
2:M3:359:PRO:HB2	30:7K:212:ARG:NH2	1.50	1.23
2:E5:282:TYR:CD1	22:6K:82:LEU:CD2	2.21	1.23
2:G3:88:HIS:CD2	2:G3:89:PRO:HD2	1.73	1.23
2:J7:80:THR:CB	29:7J:390:LEU:HD21	1.69	1.23
1:I4:276:ARG:NH1	24:6Z:490:THR:O	1.69	1.23
2:K5:219:ILE:CG2	29:7I:14:LEU:HD11	1.67	1.22
1:0M:393:ALA:HB2	2:0N:346:TRP:NE1	1.53	1.22
1:2Q:306:ARG:CZ	38:8A:96:GLY:N	2.03	1.22
2:8:42:ILE:CD1	24:6W:93:ARG:HH22	1.52	1.22
1:A3:227:HIS:NE2	26:7F:133:PHE:O	1.73	1.22
1:E6:52:ASN:CB	22:6L:181:ASN:HD21	1.52	1.22
2:J5:41:THR:CG2	2:J5:46:ASP:OD2	1.88	1.22
2:A2:29:GLY:C	26:7F:45:MET:HE3	1.59	1.21
2:M3:279:GLU:OE1	30:7K:197:ARG:HG3	1.39	1.21
1:X0:42:LEU:HB2	8:4X:97:PHE:CZ	1.74	1.21
2:3B:339:ARG:NE	38:8C:39:LYS:NZ	1.71	1.21
1:S2:80:PRO:HD2	7:4S:11:GLU:OE1	1.07	1.21
1:0M:393:ALA:CB	2:0N:346:TRP:HE1	1.52	1.21
1:2Q:306:ARG:NH1	38:8A:96:GLY:N	1.86	1.21
2:J7:282:TYR:CD1	5:4M:209:LEU:CD2	2.22	1.21
2:1Z:88:HIS:CD2	2:1Z:89:PRO:HD2	1.76	1.21
1:H6:276:ARG:NH2	24:6V:489:ASN:O	1.74	1.20
2:S1:88:HIS:CD2	2:S1:89:PRO:CD	2.23	1.20
1:T6:92:PHE:CZ	24:7A:44:ALA:HB1	1.77	1.20
1:L4:37:HIS:HA	29:7J:335:GLU:OE2	1.41	1.19
29:7J:319:ILE:CG2	29:7J:320:PRO:HD2	1.69	1.19
2:1N:313:MET:HE1	2:1N:346:TRP:CZ2	1.69	1.19
2:2P:22:GLU:OE1	38:8A:203:PHE:HD1	1.23	1.19
2:0Z:58:ALA:N	9:4Z:165:ARG:NH2	1.72	1.18
14:5M:511:THR:OG1	14:5M:531:ASP:HB3	1.43	1.18
2:B9:279:GLU:OE1	18:6C:43:ASN:ND2	1.76	1.18
1:2Y:55:THR:O	38:8C:161:GLN:NE2	1.77	1.18
15:5O:296:SER:O	15:5O:299:GLU:HG3	1.40	1.18
2:M9:282:TYR:CE1	30:7K:25:ALA:HB2	1.80	1.17
1:M6:75:SER:HA	15:5P:48:LYS:CE	1.72	1.17
1:R2:94:GLN:HE22	13:5I:18:ARG:HA	1.10	1.17
2:0Z:58:ALA:CB	9:4Z:165:ARG:HH12	1.47	1.17
5:4M:76:LEU:HD23	15:5P:288:VAL:HG21	1.20	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:8A:91:GLN:HB3	38:8A:102:PHE:CE1	1.79	1.16
2:A2:42:ILE:CD1	24:6Y:93:ARG:NH2	2.08	1.16
2:M9:279:GLU:OE2	29:7J:300:THR:HG21	1.43	1.16
24:6X:519:VAL:O	24:6X:532:LEU:O	1.60	1.16
1:3Q:248:ALA:HA	1:3Q:252:LYS:HD2	1.25	1.16
1:B5:362:LYS:HD3	18:6A:24:ARG:HB2	1.23	1.16
1:E6:52:ASN:CB	22:6L:181:ASN:ND2	2.07	1.15
2:T7:88:HIS:CD2	2:T7:89:PRO:CD	2.28	1.15
2:A2:29:GLY:O	26:7F:45:MET:HE3	0.98	1.15
2:E7:282:TYR:CE2	22:6L:82:LEU:CD2	2.29	1.15
1:I4:218:THR:OG1	24:6Z:488:ARG:O	1.62	1.15
1:T0:248:ALA:HA	1:T0:252:LYS:HD2	1.28	1.15
2:U9:88:HIS:ND1	2:U9:89:PRO:HD2	1.61	1.15
38:8C:36:GLU:OE1	38:8C:39:LYS:HE2	1.45	1.15
1:O2:79:GLY:CA	37:7Y:191:ARG:HH22	1.59	1.15
2:1N:313:MET:HE3	2:1N:346:TRP:CZ2	1.72	1.15
1:2Y:56:GLY:HA3	38:8C:161:GLN:HG2	1.15	1.15
15:5O:99:LYS:HE3	15:5O:203:ASN:ND2	1.59	1.15
2:0L:313:MET:CE	2:0L:346:TRP:CZ2	2.29	1.15
2:3P:279:GLU:OE2	14:5N:466:LYS:NZ	1.80	1.15
2:J7:277:SER:HB2	2:J7:280:LYS:NZ	1.62	1.14
7:4R:301:ARG:HG2	7:4R:301:ARG:HH21	1.06	1.14
1:A3:219:THR:OG1	26:7F:142:PHE:CD2	1.99	1.14
1:2Q:306:ARG:CZ	38:8A:96:GLY:O	1.95	1.14
1:2Q:320:ARG:CZ	38:8A:198:THR:CG2	2.24	1.14
1:M8:248:ALA:HA	1:M8:252:LYS:HD2	1.28	1.14
20:6F:361:LEU:HD12	20:6F:362:PRO:HD2	1.23	1.14
2:8:42:ILE:CD1	24:6W:93:ARG:NH2	2.07	1.14
14:5N:208:TYR:CG	14:5N:220:GLN:NE2	2.15	1.14
15:5O:99:LYS:CE	15:5O:203:ASN:HD21	1.60	1.14
2:8:370:LYS:HE2	24:6W:92:ASP:OD1	1.39	1.13
2:A2:42:ILE:HD12	24:6Y:93:ARG:NH2	1.52	1.13
15:5O:34:GLU:OE2	15:5O:49:ARG:HD3	1.47	1.13
2:N9:85:GLN:O	2:P7:283:HIS:NE2	1.80	1.13
2:2X:282:TYR:OH	10:5C:384:GLN:NE2	1.81	1.13
14:5L:110:ASP:OD1	14:5L:154:LYS:HA	1.44	1.13
15:5P:329:PRO:HG3	15:5P:335:GLY:HA2	1.28	1.13
2:N7:121:ARG:HH21	2:N7:121:ARG:HG3	1.09	1.13
1:2Q:306:ARG:CD	38:8A:96:GLY:HA3	1.78	1.13
2:H3:88:HIS:HD2	2:H3:121:ARG:NH2	1.46	1.13
2:K7:88:HIS:ND1	2:K7:89:PRO:HD2	1.65	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:6X:467:ARG:NH1	24:6X:484:GLU:OE2	1.82	1.12
1:M6:75:SER:CA	15:5P:48:LYS:HE3	1.78	1.12
2:N7:85:GLN:O	2:P5:283:HIS:HE1	1.32	1.12
2:1R:313:MET:HE3	2:1R:346:TRP:CZ2	1.77	1.12
2:8:220:GLU:HG2	26:7E:81:LYS:HZ2	0.98	1.12
2:A2:370:LYS:HE3	24:6Y:92:ASP:OD1	1.33	1.12
2:E5:282:TYR:CD1	22:6K:82:LEU:HD21	1.81	1.12
1:R2:92:PHE:HE2	24:6V:35:TYR:CE1	1.59	1.12
2:Y3:282:TYR:HE2	8:4W:373:ASN:CB	1.62	1.12
2:2Z:282:TYR:HE1	10:5C:435:LEU:HD21	0.96	1.12
2:J3:357:TYR:HB3	16:5Q:173:ARG:NE	1.24	1.12
1:2Q:306:ARG:HD3	38:8A:96:GLY:HA3	1.28	1.12
2:2Z:297:GLU:CD	38:8C:74:ILE:CG2	2.17	1.12
2:L3:89:PRO:HB3	29:7J:320:PRO:CG	1.80	1.12
1:J8:40:SER:HA	29:7J:388:MET:HG2	1.15	1.11
1:O2:79:GLY:HA2	37:7Y:191:ARG:HH22	1.03	1.11
2:1L:121:ARG:HH11	2:1L:121:ARG:HG2	1.15	1.11
1:B8:362:LYS:HD3	18:6B:24:ARG:HB2	1.26	1.11
2:G3:42:ILE:CD1	24:6W:470:ILE:CD1	2.21	1.11
2:G3:85:GLN:HE21	2:G3:85:GLN:HA	1.11	1.11
1:L6:41:ASP:OD1	29:7J:167:ILE:HD13	1.47	1.11
15:5O:99:LYS:HE3	15:5O:203:ASN:HD21	1.03	1.11
15:5O:62:LEU:HD21	15:5O:77:GLU:HA	1.32	1.11
2:8:221:ARG:O	26:7E:77:ILE:O	1.66	1.11
1:M6:46:ARG:CZ	37:7Y:115:CYS:SG	2.39	1.11
8:4W:457:LEU:O	8:4W:461:VAL:HG12	1.48	1.11
29:7J:390:LEU:HB3	29:7J:391:PRO:HD2	1.15	1.11
1:I0:218:THR:OG1	24:6X:489:ASN:HB3	1.50	1.10
2:L3:84:ARG:HH12	29:7J:345:PRO:HA	1.12	1.10
2:L3:89:PRO:HB3	29:7J:320:PRO:HG2	1.29	1.10
1:2I:118:ASP:CG	38:8C:99:THR:HB	1.70	1.10
1:H4:248:ALA:HA	1:H4:252:LYS:HD2	1.31	1.10
1:I0:218:THR:HG23	24:6X:489:ASN:HA	1.32	1.10
2:M3:359:PRO:CG	30:7K:212:ARG:NH2	2.15	1.10
1:R4:391:ARG:HG3	1:R4:391:ARG:HH11	0.94	1.10
2:W9:7:ILE:HG13	2:W9:66:ILE:HB	1.33	1.10
2:2P:22:GLU:OE1	38:8A:203:PHE:CD1	2.04	1.10
2:3B:22:GLU:OE1	38:8D:203:PHE:CD1	2.05	1.10
1:N2:248:ALA:HA	1:N2:252:LYS:HD2	1.20	1.09
2:0L:313:MET:HE1	2:0L:346:TRP:HZ2	1.12	1.09
14:5L:115:GLU:O	14:5L:134:VAL:HG11	1.52	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:5O:291:ALA:HB1	15:5O:297:MET:HE1	1.31	1.09
26:7E:138:THR:HG22	26:7E:139:PRO:HD2	1.24	1.09
2:8:26:LEU:O	24:6W:93:ARG:NH1	1.82	1.09
2:E5:282:TYR:OH	22:6K:81:ASN:HA	1.48	1.09
2:A2:221:ARG:O	26:7F:77:ILE:O	1.69	1.09
2:I1:121:ARG:HG2	2:I1:121:ARG:HH11	1.12	1.09
24:6X:316:ASP:OD2	24:6X:317:PRO:CD	1.99	1.09
1:W8:56:GLY:HA2	8:4W:395:ARG:HD3	1.35	1.08
2:K9:85:GLN:OE1	30:7K:134:HIS:ND1	1.86	1.08
2:2N:123:ARG:HH12	38:8D:78:ASP:HB3	1.01	1.08
1:3C:355:ASP:OD1	38:8D:198:THR:HG22	1.54	1.08
24:6X:451:LYS:HD2	24:6X:468:ARG:CZ	1.83	1.08
29:7J:390:LEU:HB3	29:7J:391:PRO:CD	1.83	1.08
1:H2:218:THR:OG1	24:6T:488:ARG:O	1.69	1.08
15:5O:34:GLU:HG3	15:5O:49:ARG:NH2	1.69	1.08
2:M3:42:ILE:HD12	2:M3:42:ILE:H	1.19	1.07
2:P3:274:PRO:HG3	2:P3:286:LEU:HD21	1.27	1.07
1:2I:118:ASP:OD2	38:8C:99:THR:HB	1.51	1.07
14:5M:219:LEU:HD11	14:5M:228:PHE:CE2	1.90	1.07
26:7D:138:THR:HG22	26:7D:139:PRO:HD2	1.11	1.07
2:1V:88:HIS:CD2	2:1V:89:PRO:HD2	1.89	1.07
2:2Z:282:TYR:CE1	10:5C:435:LEU:HD21	1.89	1.07
38:8D:206:PRO:HG2	38:8D:209:HIS:CE1	1.90	1.07
1:X0:42:LEU:HB2	8:4X:97:PHE:CE2	1.89	1.07
2:2Z:282:TYR:HE1	10:5C:435:LEU:CD2	1.67	1.07
38:8B:165:LYS:HD2	38:8B:165:LYS:H	1.19	1.07
2:B9:279:GLU:CD	18:6C:43:ASN:HD21	1.55	1.07
2:G7:90:GLU:HB3	2:G7:121:ARG:HH12	0.96	1.07
1:I2:218:THR:CG2	24:6Y:488:ARG:O	2.01	1.07
2:1V:121:ARG:HH11	2:1V:121:ARG:HG2	1.11	1.07
2:A2:423:GLU:OE2	4:4G:108:TYR:CE1	2.07	1.07
2:2P:282:TYR:OH	10:5C:164:ASP:OD2	1.73	1.07
1:K8:248:ALA:HA	1:K8:252:LYS:HD3	1.30	1.06
2:1N:313:MET:CE	2:1N:346:TRP:CH2	2.33	1.06
2:2T:308:ARG:NH2	38:8A:28:THR:HG22	1.70	1.06
2:J7:277:SER:HB2	2:J7:280:LYS:HZ2	0.96	1.06
2:M3:36:MET:HG3	2:M3:37:PRO:HD2	1.15	1.06
1:S0:91:VAL:HG11	1:S0:116:VAL:HG12	1.36	1.06
1:2Q:340:TYR:OH	38:8A:95:LYS:O	1.73	1.06
2:8:42:ILE:HD12	24:6W:93:ARG:NH2	1.49	1.06
38:8A:82:ASP:HB3	38:8A:112:ILE:HD13	1.38	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:8:220:GLU:CG	26:7E:81:LYS:NZ	2.19	1.06
1:S6:248:ALA:HA	1:S6:252:LYS:HD3	1.36	1.06
17:5V:174:SER:OG	17:5V:175:PRO:HD2	1.55	1.06
29:7J:319:ILE:HG22	29:7J:320:PRO:HD2	1.07	1.06
2:8:370:LYS:HE3	24:6W:92:ASP:OD1	1.45	1.05
1:A3:44:LEU:HD11	18:6C:36:ASN:O	1.56	1.05
2:J7:80:THR:HB	29:7J:390:LEU:CD2	1.85	1.05
2:W9:10:GLY:HA2	2:W9:69:ASP:OD2	1.55	1.05
2:1R:313:MET:CE	2:1R:346:TRP:CH2	2.38	1.05
1:H6:276:ARG:NE	24:6V:490:THR:O	1.90	1.05
7:4S:12:ASP:OD1	7:4S:13:PRO:HD2	1.56	1.05
14:5L:116:ARG:HH11	14:5L:116:ARG:HB3	1.22	1.05
31:7M:80:PRO:HD2	31:7M:83:THR:OG1	1.57	1.05
1:2Q:306:ARG:CZ	38:8A:96:GLY:CA	2.34	1.05
1:2Q:306:ARG:CZ	38:8A:99:THR:O	2.04	1.05
1:E8:276:ARG:NH2	24:6X:313:SER:O	1.89	1.05
26:7D:138:THR:HG22	26:7D:139:PRO:CD	1.86	1.05
1:I4:218:THR:CB	24:6Z:488:ARG:O	2.05	1.04
26:7F:138:THR:HG22	26:7F:139:PRO:HD2	1.35	1.04
1:G6:78:SER:HB2	24:6Y:499:GLU:OE1	1.57	1.04
2:V1:88:HIS:HD2	2:V1:89:PRO:HD2	1.20	1.04
2:0Z:88:HIS:CD2	2:0Z:89:PRO:HD2	1.92	1.04
1:3M:391:ARG:HD2	2:3N:346:TRP:HB3	1.37	1.04
36:7W:32:LYS:HD3	36:7W:72:LEU:H	1.20	1.04
1:2Y:355:ASP:OD2	38:8C:198:THR:HG23	1.55	1.04
1:3Q:252:LYS:HA	1:3Q:255:VAL:HG12	1.34	1.04
2:G3:42:ILE:CG1	24:6W:470:ILE:HD13	1.88	1.04
2:G5:282:TYR:OH	22:6N:134:ASN:ND2	1.90	1.04
1:U6:282:ARG:HH12	1:U6:288:GLU:HB3	1.19	1.04
1:W8:56:GLY:HA2	8:4W:395:ARG:CD	1.86	1.04
2:G1:344:VAL:HG12	2:G1:347:CYS:HB3	1.39	1.04
1:I2:218:THR:HG23	24:6Y:488:ARG:O	1.57	1.04
1:I2:248:ALA:HA	1:I2:252:LYS:HD2	1.32	1.04
2:W9:7:ILE:HG22	2:W9:137:VAL:HG12	1.38	1.04
2:2T:308:ARG:HH21	38:8A:28:THR:HG22	1.21	1.04
36:7V:32:LYS:HD3	36:7V:72:LEU:H	1.20	1.04
1:I0:218:THR:OG1	24:6X:489:ASN:N	1.91	1.03
1:5:41:ASP:OD1	26:7D:25:TYR:CE2	2.11	1.03
2:J5:41:THR:HG23	2:J5:46:ASP:OD2	1.53	1.03
2:2Z:297:GLU:OE2	38:8C:74:ILE:HG22	1.58	1.03
15:5O:52:TYR:HD2	15:5O:55:LEU:HD21	1.04	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:6X:514:TYR:HA	24:6X:517:LEU:HD11	1.39	1.03
1:R2:92:PHE:CE1	24:6V:33:LEU:HD12	1.93	1.03
2:1N:313:MET:CE	2:1N:346:TRP:HZ2	1.70	1.03
1:2I:118:ASP:HB3	38:8C:99:THR:CB	1.87	1.03
2:3B:339:ARG:CD	38:8C:39:LYS:HZ1	1.71	1.03
2:1F:85:GLN:O	2:1V:283:HIS:CE1	2.12	1.03
2:2D:282:TYR:OH	10:5A:380:ARG:HB3	1.59	1.03
2:2H:120:ASP:OD2	38:8B:27:HIS:CD2	2.11	1.03
1:2Q:306:ARG:CZ	38:8A:96:GLY:H	1.68	1.03
29:7I:4:LYS:HD2	29:7I:4:LYS:H	1.20	1.03
2:J7:80:THR:HB	29:7J:390:LEU:HD21	1.08	1.03
2:M7:285:GLN:HG3	30:7K:84:VAL:HG12	1.36	1.03
8:4W:468:MET:HE1	8:4W:470:TYR:OH	1.57	1.03
1:I4:218:THR:OG1	24:6Z:488:ARG:C	1.95	1.02
1:N2:252:LYS:HA	1:N2:255:VAL:HG12	1.41	1.02
2:0L:313:MET:HE1	2:0L:346:TRP:CZ2	1.89	1.02
38:8B:85:ARG:NH1	38:8B:87:LYS:CD	2.22	1.02
1:A3:282:ARG:O	1:T6:54:ALA:HB1	1.58	1.02
2:0Z:58:ALA:N	9:4Z:165:ARG:HH12	1.57	1.02
2:0Z:58:ALA:N	9:4Z:165:ARG:NH1	2.07	1.02
1:2Y:56:GLY:CA	38:8C:161:GLN:HG2	1.89	1.02
24:6X:514:TYR:HA	24:6X:517:LEU:CD1	1.88	1.02
26:7F:58:ILE:HD12	26:7F:58:ILE:H	1.22	1.02
38:8B:85:ARG:HH11	38:8B:87:LYS:CD	1.71	1.02
2:M3:36:MET:HG3	2:M3:37:PRO:CD	1.89	1.02
1:G6:78:SER:CB	24:6Y:499:GLU:OE1	2.08	1.02
2:P5:88:HIS:CE1	2:P5:89:PRO:HD2	1.93	1.02
29:7J:344:GLU:OE2	29:7J:345:PRO:HD2	1.58	1.02
1:2I:118:ASP:CB	38:8C:99:THR:HB	1.90	1.01
2:E7:282:TYR:OH	22:6L:81:ASN:HA	1.56	1.01
2:2H:123:ARG:HH22	38:8B:37:TYR:HA	1.22	1.01
1:2M:248:ALA:HA	1:2M:252:LYS:HD3	1.40	1.01
14:5M:415:LYS:CE	23:6R:22:MET:HB2	1.91	1.01
2:A2:40:LYS:NZ	26:7F:45:MET:HB2	1.75	1.01
1:2Q:306:ARG:NE	38:8A:96:GLY:CA	2.23	1.01
14:5L:115:GLU:O	14:5L:134:VAL:CG1	2.08	1.01
1:2I:118:ASP:HB3	38:8C:99:THR:HG21	1.36	1.01
7:4R:112:MET:HG3	7:4R:113:PRO:HD2	1.40	1.01
1:E6:52:ASN:HB3	22:6L:181:ASN:HD21	1.22	1.00
2:0X:56:THR:HB	2:0X:60:LYS:HB3	1.43	1.00
2:0Z:58:ALA:H	9:4Z:165:ARG:NH1	1.59	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2Q:320:ARG:NH2	38:8A:198:THR:CG2	2.22	1.00
2:0L:313:MET:HE3	2:0L:346:TRP:HZ2	1.26	1.00
1:2Y:306:ARG:HD3	38:8C:96:GLY:HA2	1.38	1.00
15:5O:99:LYS:CE	15:5O:203:ASN:ND2	2.22	1.00
2:8:42:ILE:HD12	24:6W:93:ARG:HH22	1.04	1.00
2:E5:282:TYR:CD2	22:6K:82:LEU:HD21	1.96	1.00
2:W9:88:HIS:CD2	2:W9:121:ARG:NH2	2.28	1.00
15:5O:34:GLU:OE2	15:5O:49:ARG:CD	2.10	1.00
2:E5:282:TYR:CE2	22:6K:82:LEU:CD2	2.36	1.00
2:Q5:60:LYS:HE2	2:S1:283:HIS:NE2	1.75	1.00
2:K5:279:GLU:OE2	29:7I:24:PRO:HD3	1.21	1.00
15:5O:6:ARG:HD3	15:5O:27:PHE:HD2	0.86	1.00
16:5Q:173:ARG:HH11	16:5Q:173:ARG:HG2	1.27	1.00
1:2Q:320:ARG:HH12	38:8A:198:THR:CA	1.75	1.00
2:M1:90:GLU:HB3	1:N8:281:TYR:HE2	1.27	0.99
2:1R:313:MET:HE1	2:1R:346:TRP:CH2	1.95	0.99
1:3S:362:LYS:HE2	38:8D:166:GLU:CG	1.88	0.99
1:L4:56:GLY:HA2	29:7J:331:TYR:HB2	1.42	0.99
2:0Z:58:ALA:CA	9:4Z:165:ARG:NH1	2.24	0.99
15:5O:99:LYS:HG3	15:5O:203:ASN:O	1.61	0.99
15:5P:12:GLU:HB2	15:5P:21:LEU:HD21	1.42	0.99
2:W7:85:GLN:O	2:Y3:283:HIS:HE1	1.46	0.99
1:X0:42:LEU:CB	8:4X:97:PHE:CZ	2.43	0.99
1:1G:388:MET:HA	1:1G:388:MET:HE2	1.44	0.99
1:2E:95:THR:CG2	38:8B:83:ARG:NH1	2.15	0.99
1:I4:218:THR:HG1	24:6Z:488:ARG:C	1.65	0.99
14:5M:511:THR:OG1	14:5M:531:ASP:CB	2.10	0.99
2:0Z:58:ALA:N	9:4Z:165:ARG:CZ	2.17	0.99
15:5O:34:GLU:HG3	15:5O:49:ARG:CZ	1.92	0.99
2:Q5:60:LYS:HE2	2:S1:283:HIS:CD2	1.98	0.99
2:Y3:282:TYR:HE2	8:4W:373:ASN:HB2	1.23	0.99
2:M3:359:PRO:CB	30:7K:212:ARG:NH2	2.10	0.98
1:2Q:306:ARG:NE	38:8A:96:GLY:HA3	1.77	0.98
2:2Z:308:ARG:HH22	38:8C:72:ASP:HB2	1.27	0.98
15:5O:52:TYR:HD2	15:5O:55:LEU:CD2	1.74	0.98
38:8A:86:TYR:CE2	38:8A:104:LYS:HG2	1.98	0.98
2:2H:120:ASP:CG	38:8B:27:HIS:NE2	2.16	0.98
29:7J:319:ILE:HG22	29:7J:320:PRO:CD	1.93	0.98
2:H3:88:HIS:CD2	2:H3:121:ARG:NH2	2.31	0.98
2:L9:90:GLU:HB3	1:N6:281:TYR:HE2	1.24	0.98
2:1R:313:MET:HE1	2:1R:346:TRP:HZ2	1.27	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2Y:56:GLY:HA3	38:8C:161:GLN:CG	1.91	0.98
1:M4:86:ARG:HG3	2:O1:283:HIS:HE1	1.29	0.98
15:5O:6:ARG:CD	15:5O:27:PHE:HD2	1.76	0.98
2:G3:42:ILE:CG1	24:6W:470:ILE:CD1	2.40	0.98
1:H6:276:ARG:CZ	24:6V:489:ASN:O	2.12	0.98
1:I4:276:ARG:CD	24:6Z:490:THR:O	2.11	0.98
2:M9:282:TYR:CD1	30:7K:25:ALA:CB	2.47	0.98
2:U9:100:ALA:HA	1:V0:252:LYS:HG2	1.46	0.98
2:1D:85:GLN:O	2:1T:283:HIS:HE1	1.44	0.98
1:M6:113:ILE:HD13	1:M6:150:LEU:HD22	1.46	0.98
2:Q3:88:HIS:CD2	2:Q3:89:PRO:HD2	1.99	0.98
2:Y3:282:TYR:HD2	8:4W:373:ASN:ND2	1.43	0.98
2:Z5:88:HIS:HD2	2:Z5:89:PRO:HD2	0.86	0.98
2:E7:282:TYR:CZ	22:6L:82:LEU:CD2	2.30	0.98
1:2Y:306:ARG:CD	38:8C:96:GLY:HA2	1.93	0.97
15:5O:56:LYS:H	15:5O:56:LYS:HE2	1.28	0.97
2:O3:313:MET:HG2	2:O3:346:TRP:CZ3	1.99	0.97
38:8A:206:PRO:HG2	38:8A:209:HIS:NE2	1.79	0.97
14:5M:415:LYS:HE2	23:6R:22:MET:HB2	1.46	0.97
1:L0:113:ILE:HD13	1:L0:150:LEU:HD22	1.45	0.97
2:Y3:282:TYR:CE2	8:4W:373:ASN:CB	2.47	0.97
2:1H:344:VAL:HG23	2:1H:347:CYS:HB3	1.44	0.97
38:8C:83:ARG:NH2	38:8C:85:ARG:HD2	1.78	0.97
1:Z2:113:ILE:HD13	1:Z2:150:LEU:HD22	1.43	0.97
2:P5:88:HIS:ND1	2:P5:89:PRO:CD	2.27	0.97
2:S1:88:HIS:HD2	2:S1:89:PRO:HD2	1.29	0.97
5:4L:290:GLN:HE21	28:7H:309:ALA:HB1	1.28	0.97
7:4T:184:LEU:HD23	31:7M:78:HIS:ND1	1.79	0.97
20:6F:27:LEU:HD12	30:7K:3:LEU:HD12	1.47	0.97
2:2Z:297:GLU:OE1	38:8C:74:ILE:HG22	1.64	0.97
12:5F:271:LEU:HD23	12:7B:23:MET:HG2	1.47	0.97
1:A3:219:THR:OG1	26:7F:142:PHE:CE2	2.13	0.96
1:H6:276:ARG:NH1	24:6V:490:THR:HA	1.80	0.96
2:1V:91:GLN:HA	2:1V:121:ARG:HH12	1.27	0.96
2:E5:282:TYR:CD1	22:6K:82:LEU:HD22	1.95	0.96
1:M2:113:ILE:HD13	1:M2:150:LEU:HD22	1.47	0.96
2:N7:85:GLN:O	2:P5:283:HIS:CE1	2.17	0.96
2:V1:88:HIS:CD2	2:V1:89:PRO:HD2	2.01	0.96
2:0L:313:MET:HE3	2:0L:346:TRP:CZ2	1.97	0.96
1:3S:362:LYS:HE2	38:8D:166:GLU:HG3	1.46	0.96
1:I0:218:THR:OG1	24:6X:489:ASN:CB	2.13	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P4:71:GLY:HA3	27:7G:184:LYS:HA	1.46	0.96
15:5O:12:GLU:OE1	15:5O:74:LYS:HE2	1.65	0.96
2:G7:90:GLU:HB3	2:G7:121:ARG:NH1	1.79	0.96
15:5P:329:PRO:CG	15:5P:335:GLY:CA	2.43	0.96
1:K8:113:ILE:HD13	1:K8:150:LEU:HD22	1.45	0.96
15:5O:145:PHE:CZ	15:5O:200:LYS:NZ	2.34	0.96
1:M4:86:ARG:HG3	2:O1:283:HIS:CE1	2.01	0.96
1:M6:75:SER:HA	15:5P:48:LYS:HE3	0.97	0.96
2:Z5:88:HIS:CD2	2:Z5:89:PRO:CD	2.49	0.96
2:J5:41:THR:HG21	2:J5:46:ASP:OD2	1.64	0.96
2:2J:88:HIS:ND1	2:2J:89:PRO:HD2	1.80	0.96
2:M3:359:PRO:HB2	30:7K:212:ARG:HH21	0.80	0.96
2:J7:218:ASP:OD2	2:J7:280:LYS:NZ	1.97	0.95
1:M6:46:ARG:NH1	37:7Y:115:CYS:SG	2.39	0.95
2:W9:9:ILE:HG22	2:W9:146:GLY:HA2	1.45	0.95
2:W9:88:HIS:HA	2:Y5:283:HIS:CE1	2.01	0.95
1:2U:59:TYR:OH	38:8B:182:ASN:OD1	1.84	0.95
2:2N:161:TYR:HE1	38:8D:80:TYR:HB2	1.31	0.95
1:2Q:306:ARG:NE	38:8A:96:GLY:O	1.99	0.95
1:2U:77:ARG:NH2	17:5T:197:GLN:O	1.99	0.95
2:3B:339:ARG:HE	38:8C:39:LYS:HZ3	0.98	0.95
2:M9:282:TYR:HD1	30:7K:25:ALA:HB2	1.28	0.95
1:2Q:113:ILE:HD13	1:2Q:150:LEU:HD22	1.45	0.95
2:A2:370:LYS:CD	24:6Y:92:ASP:OD1	2.14	0.95
15:5O:34:GLU:CD	15:5O:49:ARG:HD3	1.86	0.95
24:6X:315:ARG:HG2	24:6X:315:ARG:HH11	1.27	0.95
26:7D:59:ARG:NH2	26:7D:59:ARG:HB2	1.82	0.95
2:M3:279:GLU:OE1	30:7K:197:ARG:CG	2.15	0.95
2:OZ:58:ALA:CA	9:4Z:165:ARG:HH12	1.77	0.95
1:2I:121:ARG:HD2	38:8C:98:TYR:O	1.66	0.95
38:8C:30:GLN:HE21	38:8C:31:GLU:HG2	1.29	0.95
2:2H:90:GLU:HB3	2:2H:121:ARG:HH22	1.30	0.95
15:5O:284:VAL:HG11	25:7C:80:ARG:HE	1.31	0.95
1:R8:111:GLU:HG3	13:5J:119:VAL:HG11	1.48	0.94
15:5P:329:PRO:HG2	15:5P:335:GLY:HA3	1.47	0.94
2:A2:29:GLY:C	26:7F:45:MET:HE1	1.79	0.94
2:W9:88:HIS:HB3	2:W9:91:GLN:HB2	1.48	0.94
1:1E:248:ALA:HA	1:1E:252:LYS:HD3	1.47	0.94
26:7D:58:ILE:HD12	26:7D:58:ILE:H	1.32	0.94
2:E7:282:TYR:CE1	22:6L:82:LEU:HD23	2.03	0.94
14:5M:363:PHE:CE1	14:5M:377:ARG:HD2	2.02	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M3:359:PRO:HG2	30:7K:212:ARG:NH2	1.81	0.94
2:2H:96:LYS:NZ	38:8B:5:LYS:O	2.00	0.94
1:5:337:ASN:HD21	3:3Z:69:TYR:H	1.13	0.94
1:A3:227:HIS:HE1	26:7F:133:PHE:O	1.46	0.94
2:M9:35:GLN:OE1	2:M9:40:LYS:NZ	1.99	0.94
2:O3:313:MET:SD	2:O3:346:TRP:HH2	1.91	0.94
2:P5:42:ILE:HD11	27:7G:213:TRP:CE3	2.03	0.94
2:W9:10:GLY:CA	2:W9:69:ASP:OD2	2.14	0.94
2:3B:121:ARG:HD2	2:3B:125:LEU:HG	1.49	0.93
26:7D:138:THR:CG2	26:7D:139:PRO:HD2	1.96	0.93
1:X0:42:LEU:CG	8:4X:97:PHE:CZ	2.51	0.93
1:0Y:207:LEU:HD11	1:0Y:229:ILE:HD11	1.48	0.93
15:5O:62:LEU:CD2	15:5O:77:GLU:HA	1.96	0.93
15:5P:329:PRO:CG	15:5P:335:GLY:HA2	1.98	0.93
1:E2:77:ARG:HH22	24:6U:426:LEU:HB2	1.26	0.93
2:2Z:88:HIS:ND1	2:2Z:89:PRO:HD2	1.84	0.93
2:A2:40:LYS:HZ1	26:7F:45:MET:HB2	1.25	0.93
2:2Z:297:GLU:OE2	38:8C:74:ILE:N	2.02	0.93
15:5O:52:TYR:CD2	15:5O:55:LEU:CD2	2.50	0.93
22:6L:170:ARG:O	22:6L:174:GLU:HG3	1.69	0.93
2:M7:285:GLN:HG3	30:7K:84:VAL:CG1	1.99	0.93
2:2H:120:ASP:CG	38:8B:27:HIS:HE2	1.72	0.93
2:2P:358:GLN:HE22	38:8A:212:PRO:HB2	1.30	0.93
20:6F:361:LEU:CD1	20:6F:362:PRO:HD2	1.97	0.93
14:5L:188:ALA:HA	14:5L:226:VAL:HG12	1.48	0.93
38:8B:85:ARG:HH12	38:8B:87:LYS:HD3	1.30	0.93
2:B2:85:GLN:NE2	18:5Z:210:GLU:OE2	2.01	0.93
2:M1:90:GLU:HB3	1:N8:281:TYR:CE2	2.03	0.93
2:0Z:58:ALA:HB3	9:4Z:165:ARG:HH11	1.10	0.93
14:5M:363:PHE:CD1	14:5M:377:ARG:HD2	2.04	0.93
26:7E:138:THR:CG2	26:7E:139:PRO:HD2	1.98	0.93
2:M9:35:GLN:CD	2:M9:40:LYS:NZ	2.21	0.93
2:0Z:56:THR:HG23	2:0Z:60:LYS:HB3	1.48	0.93
2:2Z:282:TYR:CE1	10:5C:435:LEU:CD2	2.48	0.93
15:5O:226:ARG:HG2	15:5O:226:ARG:HH11	1.34	0.93
2:O3:313:MET:SD	2:O3:346:TRP:CH2	2.62	0.93
26:7E:138:THR:HG22	26:7E:139:PRO:CD	1.97	0.93
2:G3:88:HIS:HD2	2:G3:89:PRO:HD2	1.21	0.92
2:J7:277:SER:CB	2:J7:280:LYS:NZ	2.31	0.92
2:L9:90:GLU:HB3	1:N6:281:TYR:CE2	2.03	0.92
1:3O:77:ARG:HH21	3:4F:19:LEU:HD23	1.31	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:337:ASN:HD21	3:3X:68:SER:HA	1.33	0.92
1:M6:37:HIS:CE1	15:5P:295:ASN:ND2	2.37	0.92
1:1M:248:ALA:HA	1:1M:252:LYS:HD3	1.49	0.92
1:2I:118:ASP:CB	38:8C:99:THR:CG2	2.45	0.92
28:7H:410:HIS:HB3	28:7H:413:TYR:HB2	1.51	0.92
1:T6:92:PHE:O	24:7A:35:TYR:OH	1.86	0.92
26:7F:58:ILE:HD12	26:7F:58:ILE:N	1.84	0.92
28:7X:410:HIS:HB3	28:7X:413:TYR:HB2	1.51	0.92
2:3B:22:GLU:OE1	38:8D:203:PHE:HD1	1.45	0.92
2:A2:223:THR:HG21	26:7F:111:ASP:OD1	1.67	0.92
2:J3:357:TYR:CB	16:5Q:173:ARG:NE	1.95	0.92
1:3K:77:ARG:HH21	3:4B:19:LEU:HD23	1.33	0.92
2:G5:282:TYR:CZ	22:6N:134:ASN:ND2	2.37	0.92
2:3P:130:THR:OG1	3:4F:170:GLU:OE2	1.88	0.92
2:8:85:GLN:HE22	18:6A:78:LEU:HD13	1.25	0.92
2:I9:37:PRO:HB2	28:7H:401:THR:OG1	1.69	0.92
2:2H:88:HIS:CE1	2:2H:90:GLU:HB2	2.05	0.92
1:K4:113:ILE:HD13	1:K4:150:LEU:HD22	1.50	0.92
17:5V:174:SER:OG	17:5V:175:PRO:CD	2.17	0.92
1:A3:337:ASN:HD21	3:4H:68:SER:HA	1.31	0.92
2:M7:221:ARG:HH21	30:7K:62:GLU:HB2	1.33	0.92
1:W0:202:LEU:HD23	1:W0:229:ILE:HD13	1.52	0.92
1:2A:111:GLU:OE2	38:8A:83:ARG:NH2	2.02	0.92
1:I4:276:ARG:NH1	24:6Z:490:THR:C	2.24	0.91
1:2U:58:ARG:HB3	1:2U:58:ARG:NH1	1.85	0.91
17:5V:178:ARG:NH2	17:5V:229:LEU:O	2.03	0.91
1:Y6:58:ARG:HG3	1:Y6:58:ARG:HH21	1.35	0.91
2:0Z:57:GLY:C	9:4Z:165:ARG:HH22	1.73	0.91
1:3K:280:GLN:HG2	38:8B:162:VAL:HG22	1.52	0.91
1:H4:218:THR:OG1	24:6U:488:ARG:HB2	1.69	0.91
1:2Y:306:ARG:HD3	38:8C:96:GLY:CA	1.98	0.91
1:I0:218:THR:CG2	24:6X:489:ASN:H	1.83	0.91
2:0Z:58:ALA:O	9:4Z:165:ARG:CZ	2.18	0.91
1:1U:248:ALA:HA	1:1U:252:LYS:HD3	1.49	0.91
2:Y3:157:LEU:HD11	2:Y3:166:LYS:HD3	1.53	0.91
2:2N:123:ARG:NH1	38:8D:78:ASP:HB3	1.85	0.91
2:J7:282:TYR:HD1	5:4M:209:LEU:HD21	1.11	0.91
2:T3:56:THR:HG23	2:T3:60:LYS:HB3	1.52	0.91
26:7F:138:THR:CG2	26:7F:139:PRO:HD2	2.01	0.91
2:G3:42:ILE:HG13	24:6W:470:ILE:HD13	1.47	0.91
2:M3:36:MET:CG	2:M3:37:PRO:HD2	2.01	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:6M:108:ARG:HD2	24:6X:285:MET:SD	2.10	0.91
1:O2:79:GLY:CA	37:7Y:191:ARG:NH2	2.34	0.91
1:I0:218:THR:HG21	24:6X:489:ASN:H	1.36	0.91
2:J9:96:LYS:NZ	28:7X:464:VAL:O	2.03	0.91
2:2H:282:TYR:OH	10:5B:164:ASP:OD1	1.87	0.91
2:J7:282:TYR:CE1	5:4M:209:LEU:CD2	2.52	0.91
2:N9:119:LEU:HD23	2:N9:122:ILE:HD11	1.53	0.91
2:2T:358:GLN:HE22	38:8B:212:PRO:HB2	1.34	0.90
1:I4:218:THR:HG23	24:6Z:488:ARG:O	1.68	0.90
1:S4:46:ARG:HH21	1:S4:49:VAL:HB	1.35	0.90
1:2I:118:ASP:HB3	38:8C:99:THR:HG22	1.53	0.90
1:2Y:320:ARG:NH2	38:8C:198:THR:HA	1.86	0.90
15:5P:332:PRO:HG3	15:5P:350:ASP:C	1.91	0.90
2:0Z:88:HIS:HD2	2:0Z:89:PRO:HD2	1.31	0.90
2:K1:224:TYR:HA	2:K1:227:LEU:HD12	1.50	0.90
2:N3:386:GLU:HB2	2:N3:390:ARG:HH21	1.34	0.90
2:M3:362:VAL:HG11	2:M3:368:LEU:HB2	1.52	0.90
2:Z5:83:TYR:HB3	2:Z5:86:LEU:HB3	1.53	0.90
15:5O:208:SER:HB3	15:5O:217:GLU:OE1	1.70	0.90
2:A2:40:LYS:HZ3	26:7F:46:ASN:H	1.18	0.90
1:I0:218:THR:OG1	24:6X:489:ASN:CA	2.20	0.90
1:0C:113:ILE:HD13	1:0C:150:LEU:HD22	1.53	0.90
1:0M:393:ALA:HB2	2:0N:346:TRP:HE1	0.75	0.90
26:7F:132:SER:HA	26:7F:135:LYS:HE2	1.54	0.90
38:8A:91:GLN:HB3	38:8A:102:PHE:HD1	1.30	0.90
2:A2:279:GLU:OE2	26:7F:82:PRO:HG2	1.70	0.90
2:Y5:157:LEU:HD21	2:Y5:166:LYS:HD3	1.53	0.90
1:3M:77:ARG:HH21	3:4D:19:LEU:HD23	1.37	0.90
14:5M:219:LEU:HD11	14:5M:228:PHE:HD2	1.34	0.90
38:8D:78:ASP:OD2	38:8D:79:PRO:HD2	1.70	0.90
2:O1:221:ARG:NH2	37:7Y:249:PHE:O	2.04	0.90
1:R2:92:PHE:CD1	24:6V:33:LEU:HD12	2.05	0.90
2:1D:85:GLN:O	2:1T:283:HIS:CE1	2.23	0.90
1:2I:118:ASP:HB3	38:8C:99:THR:HB	1.52	0.90
2:2V:308:ARG:HH22	38:8B:72:ASP:HB2	1.34	0.90
15:5O:6:ARG:CD	15:5O:27:PHE:CD2	2.51	0.90
22:6P:269:GLU:HA	22:6P:272:ARG:HE	1.35	0.90
2:M5:121:ARG:HH11	2:M5:121:ARG:HA	1.35	0.90
2:Q9:18:ASN:HD21	12:7B:75:TYR:HE1	1.17	0.90
14:5M:415:LYS:HE2	23:6R:22:MET:CB	2.00	0.90
2:J3:47:ASP:OD2	16:5Q:177:SER:OG	1.90	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y8:8:GLN:HE22	1:Y8:63:ALA:HB1	1.36	0.89
15:5O:296:SER:HA	15:5O:299:GLU:HG2	1.53	0.89
2:Y3:282:TYR:OH	8:4W:370:VAL:HA	1.72	0.89
2:K5:88:HIS:HB3	2:M1:283:HIS:ND1	1.88	0.89
10:5C:478:LEU:HD11	10:5C:495:GLU:HA	1.54	0.89
1:W0:202:LEU:HD23	1:W0:229:ILE:CD1	2.02	0.89
8:4W:458:GLU:O	8:4W:461:VAL:HG13	1.71	0.89
1:Q6:285:THR:HG22	1:Q6:287:PRO:HD2	1.52	0.89
1:T0:252:LYS:HA	1:T0:255:VAL:HG12	1.54	0.89
2:Z7:66:ILE:HD12	2:Z7:68:LEU:HD11	1.55	0.89
17:5S:106:THR:O	17:5S:110:VAL:HG23	1.71	0.89
1:Q4:285:THR:HG22	1:Q4:287:PRO:HD2	1.54	0.89
2:T5:264:ARG:NH1	2:T5:431:ASP:OD2	2.04	0.89
14:5N:208:TYR:CB	14:5N:220:GLN:HE21	1.84	0.89
29:7J:253:ASN:HB3	30:7L:341:ARG:HH22	1.36	0.89
2:S5:264:ARG:NH1	2:S5:431:ASP:OD1	2.06	0.89
14:5N:210:TYR:HE1	14:5N:220:GLN:HG3	1.26	0.89
38:8A:91:GLN:CB	38:8A:102:PHE:CD1	2.54	0.89
4:4I:35:LYS:NZ	3:4J:254:LYS:O	2.06	0.89
2:8:220:GLU:HG2	26:7E:81:LYS:NZ	1.54	0.89
2:2D:282:TYR:OH	10:5A:380:ARG:CB	2.21	0.89
2:Z5:88:HIS:HD2	2:Z5:89:PRO:CD	1.82	0.89
2:M7:285:GLN:HE21	30:7K:84:VAL:HG11	1.35	0.88
2:Q3:56:THR:HG22	2:Q3:60:LYS:HB3	1.53	0.88
29:7J:390:LEU:CB	29:7J:391:PRO:CD	2.51	0.88
2:G7:88:HIS:CD2	2:G7:89:PRO:HD2	2.08	0.88
1:W6:175:VAL:HG12	1:W6:205:GLU:HG2	1.56	0.88
2:I9:88:HIS:ND1	2:I9:89:PRO:HD2	1.88	0.88
2:L3:89:PRO:CB	29:7J:320:PRO:CG	2.52	0.88
1:R4:424:GLN:HE22	17:5T:104:PHE:H	1.22	0.88
2:M3:359:PRO:CG	30:7K:212:ARG:HH21	1.81	0.88
2:P5:42:ILE:CD1	27:7G:213:TRP:CZ3	2.56	0.88
2:2N:161:TYR:HE1	38:8D:80:TYR:CB	1.86	0.88
14:5N:210:TYR:CE1	14:5N:220:GLN:CG	2.54	0.88
1:1G:207:LEU:HD11	1:1G:229:ILE:HD11	1.56	0.88
1:2A:418:LEU:HG	1:2A:422:TYR:HE2	1.39	0.88
24:6U:81:THR:O	26:7D:59:ARG:NH1	2.06	0.88
2:I1:121:ARG:HG2	2:I1:121:ARG:NH1	1.80	0.88
1:I2:252:LYS:HA	1:I2:255:VAL:HG12	1.54	0.88
2:M7:89:PRO:HG2	19:6E:25:VAL:CG1	2.04	0.88
2:2Z:121:ARG:HH11	2:2Z:121:ARG:CG	1.87	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L3:84:ARG:NH1	29:7J:345:PRO:HA	1.89	0.87
2:W9:5:ILE:HD12	2:W9:125:LEU:HD23	1.57	0.87
2:1V:121:ARG:HD2	2:1V:121:ARG:O	1.74	0.87
2:2P:84:ARG:HB3	38:8A:188:ARG:HH12	1.39	0.87
7:4R:8:VAL:HG22	7:4R:9:PRO:HD2	1.56	0.87
7:4S:3:ARG:HG2	7:4S:3:ARG:HH11	1.38	0.87
2:M7:89:PRO:CB	19:6E:25:VAL:HG11	2.03	0.87
1:R4:391:ARG:HG3	1:R4:391:ARG:NH1	1.74	0.87
1:X6:7:ILE:HB	1:X6:135:VAL:HG12	1.55	0.87
1:0M:391:ARG:HD3	2:0N:346:TRP:HB2	1.56	0.87
15:5P:329:PRO:HG2	15:5P:335:GLY:CA	2.03	0.87
1:N2:113:ILE:HD13	1:N2:150:LEU:HD22	1.56	0.87
24:6X:444:ILE:C	24:6X:445:ILE:HD12	1.95	0.87
2:J9:72:PRO:HG3	1:K0:1:MET:HG2	1.54	0.87
2:S5:88:HIS:HB3	2:S5:91:GLN:HG3	1.57	0.87
2:1Z:88:HIS:HB3	2:1Z:91:GLN:HG3	1.56	0.87
1:G8:248:ALA:HA	1:G8:252:LYS:HD3	1.53	0.87
15:5O:289:LEU:N	15:5O:290:PRO:HD2	1.89	0.87
15:5P:329:PRO:HG3	15:5P:335:GLY:CA	2.02	0.87
18:6D:5:VAL:HG11	18:6D:62:GLU:HG2	1.56	0.87
24:6X:463:THR:O	24:6X:467:ARG:HG3	1.74	0.87
1:B3:362:LYS:HG2	24:6W:108:GLU:HG3	1.56	0.87
1:K8:248:ALA:CA	1:K8:252:LYS:HD3	2.05	0.87
2:T1:88:HIS:HB2	2:T1:91:GLN:HB2	1.56	0.87
38:8A:73:TRP:CZ2	38:8A:76:ASP:HB3	2.09	0.87
2:8:220:GLU:CG	26:7E:81:LYS:HZ3	1.82	0.87
2:8:370:LYS:HE3	24:6W:92:ASP:CG	1.83	0.87
1:H4:175:VAL:HG22	2:H5:329:ASN:HD21	1.38	0.87
2:N7:121:ARG:HG3	2:N7:121:ARG:NH2	1.88	0.87
1:R4:391:ARG:HH11	1:R4:391:ARG:CG	1.85	0.87
2:0V:347:CYS:SG	2:0V:347:CYS:O	2.32	0.87
5:4M:294:SER:HA	28:7X:306:LEU:HD11	1.55	0.87
15:5P:34:GLU:OE2	15:5P:49:ARG:HG2	1.75	0.87
1:J6:212:PHE:HE1	2:J7:326:LYS:HE3	1.40	0.87
1:J8:40:SER:CA	29:7J:388:MET:HG2	2.05	0.87
2:X5:301:MET:HE1	2:X5:307:PRO:HD3	1.55	0.87
2:A2:370:LYS:HE2	24:6Y:92:ASP:OD1	1.75	0.86
2:Y3:282:TYR:CE2	8:4W:373:ASN:HB2	2.10	0.86
37:7Y:115:CYS:SG	37:7Y:115:CYS:O	2.33	0.86
1:2Q:320:ARG:NH1	38:8A:198:THR:CG2	2.37	0.86
2:B9:221:ARG:NH2	18:6C:27:ASP:O	2.06	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2U:58:ARG:HB3	1:2U:58:ARG:HH11	1.38	0.86
24:6Z:130:MET:HE1	24:6Z:174:ILE:HD11	1.57	0.86
26:7F:63:LEU:HD22	26:7F:63:LEU:H	1.39	0.86
1:I0:218:THR:CG2	24:6X:489:ASN:HA	2.05	0.86
2:1V:121:ARG:HH11	2:1V:121:ARG:CG	1.87	0.86
2:A2:29:GLY:HA2	26:7F:45:MET:SD	2.15	0.86
1:I4:218:THR:HG21	24:6Z:488:ARG:O	1.74	0.86
1:X0:40:SER:HG	8:4X:97:PHE:HD2	0.90	0.86
2:1B:347:CYS:SG	2:1B:347:CYS:O	2.33	0.86
1:2A:121:ARG:NH2	38:8A:100:SER:OG	2.08	0.86
1:K8:248:ALA:HA	1:K8:252:LYS:CD	2.04	0.86
1:E6:52:ASN:OD1	22:6L:181:ASN:ND2	2.08	0.86
1:I4:276:ARG:CZ	24:6Z:490:THR:O	2.22	0.86
1:2M:173:PRO:HD2	1:2M:380:ARG:HE	1.40	0.86
1:A3:219:THR:CB	26:7F:142:PHE:CE2	2.59	0.86
5:4L:290:GLN:HE21	28:7H:309:ALA:CB	1.89	0.86
26:7F:119:MET:HA	26:7F:119:MET:CE	2.05	0.86
1:O2:79:GLY:HA2	37:7Y:191:ARG:NH2	1.88	0.86
2:R5:56:THR:HG23	2:R5:60:LYS:HB3	1.57	0.86
2:G3:88:HIS:CD2	2:G3:89:PRO:CD	2.58	0.86
2:0H:60:LYS:HD3	2:0H:88:HIS:CE1	2.10	0.86
1:2Q:77:ARG:NH2	17:5S:197:GLN:O	2.08	0.86
8:4V:391:GLU:HG3	8:4V:395:ARG:HH11	1.40	0.86
10:5A:287:VAL:HA	10:5A:290:LYS:HD2	1.58	0.86
1:Q8:233:MET:HA	1:Q8:236:ILE:HD12	1.58	0.85
1:T2:375:GLN:HB3	1:T2:422:TYR:HD2	1.40	0.85
2:8:220:GLU:CG	26:7E:81:LYS:HZ2	1.83	0.85
1:R8:175:VAL:HG22	2:R9:329:ASN:HD21	1.42	0.85
1:S2:80:PRO:HD3	7:4S:11:GLU:OE1	1.76	0.85
2:U7:88:HIS:ND1	2:U7:89:PRO:HD2	1.91	0.85
1:0U:207:LEU:HD11	1:0U:229:ILE:HD11	1.56	0.85
1:1M:375:GLN:HB2	1:1M:419:VAL:HG23	1.56	0.85
2:2N:161:TYR:CE1	38:8D:80:TYR:CB	2.59	0.85
7:4R:112:MET:HG3	7:4R:113:PRO:CD	2.06	0.85
24:6W:41:ARG:HE	24:6W:41:ARG:HA	1.40	0.85
38:8A:82:ASP:HB2	38:8A:112:ILE:HG21	1.56	0.85
38:8B:201:LEU:O	38:8B:201:LEU:HD12	1.76	0.85
2:8:220:GLU:HG3	26:7E:81:LYS:HZ3	1.40	0.85
1:G2:391:ARG:HG3	1:G2:391:ARG:HH11	1.39	0.85
1:H2:276:ARG:HB2	24:6T:490:THR:HG21	1.57	0.85
1:I0:219:THR:HG21	24:6X:488:ARG:HD2	1.58	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I7:370:LYS:HD2	5:4L:263:LEU:HD22	1.59	0.85
2:M9:282:TYR:HD1	30:7K:25:ALA:CB	1.84	0.85
1:T0:248:ALA:CA	1:T0:252:LYS:HD2	2.05	0.85
14:5M:594:HIS:H	14:5M:620:PHE:HE2	1.21	0.85
1:U2:220:PRO:HD2	2:U3:326:LYS:HD3	1.57	0.85
2:V3:154:LEU:HD22	2:V3:197:HIS:HB3	1.58	0.85
7:4R:301:ARG:HG2	7:4R:301:ARG:NH2	1.86	0.85
15:5O:203:ASN:H	15:5O:203:ASN:HD22	1.24	0.85
24:6X:519:VAL:HG13	24:6X:533:LEU:O	1.75	0.85
1:G6:78:SER:OG	24:6Y:499:GLU:OE1	1.94	0.85
1:L4:44:LEU:CD2	29:7J:339:GLN:OE1	2.25	0.85
1:O2:280:GLN:NE2	37:7Y:211:PRO:O	2.08	0.85
2:0N:102:ASN:HD21	2:0N:411:GLU:HG3	1.42	0.85
1:1U:16:ILE:HD11	1:1U:136:CYS:HB3	1.57	0.85
2:2Z:121:ARG:HH11	2:2Z:121:ARG:HG2	1.41	0.85
2:3F:220:GLU:HG2	38:8A:177:HIS:HB2	1.56	0.85
15:5P:326:LEU:O	15:5P:326:LEU:HD12	1.76	0.85
22:6J:65:ARG:HE	22:6J:101:ASN:HB3	1.41	0.85
1:Q8:46:ARG:HG2	1:Q8:241:ARG:HA	1.58	0.85
14:5L:594:HIS:H	14:5L:620:PHE:HE2	1.21	0.85
1:5:219:THR:OG1	26:7D:142:PHE:CD1	2.05	0.85
14:5N:594:HIS:H	14:5N:620:PHE:HE2	1.21	0.85
1:L6:41:ASP:OD1	29:7J:167:ILE:HD11	1.74	0.85
1:N0:87:PRO:HD2	2:O7:283:HIS:HB2	1.58	0.85
2:3B:22:GLU:OE1	38:8D:203:PHE:CE1	2.29	0.85
17:5U:178:ARG:O	17:5U:182:VAL:HG22	1.77	0.85
1:0E:390:ARG:HH21	1:0E:390:ARG:HB3	1.42	0.85
1:0Y:54:ALA:HB3	1:0Y:58:ARG:HB3	1.58	0.85
1:2Q:320:ARG:HH12	38:8A:198:THR:N	1.73	0.85
14:5L:188:ALA:HA	14:5L:226:VAL:CG1	2.07	0.85
1:1:337:ASN:HD21	3:3V:69:TYR:H	1.20	0.85
2:B0:59:GLY:HA3	24:6U:263:ARG:HH11	1.42	0.85
2:L3:84:ARG:HH12	29:7J:345:PRO:CA	1.88	0.85
2:M5:88:HIS:CD2	2:M5:89:PRO:HD2	2.11	0.85
2:P5:42:ILE:HD11	27:7G:213:TRP:HZ3	1.33	0.85
2:Y5:56:THR:HG22	2:0B:285:GLN:HB2	1.58	0.85
2:3B:85:GLN:O	2:3R:283:HIS:CE1	2.30	0.85
15:5P:331:ASP:OD1	15:5P:331:ASP:N	2.09	0.85
16:5Q:15:VAL:HG13	16:5Q:151:MET:HE1	1.56	0.85
2:W1:88:HIS:CD2	2:W1:90:GLU:HB3	2.12	0.84
1:1W:55:THR:HG21	1:2M:284:LEU:HD23	1.58	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J7:282:TYR:HE1	5:4M:210:ASP:OD1	1.56	0.84
2:K9:76:ASP:OD2	1:L0:46:ARG:NH2	2.11	0.84
2:2H:120:ASP:OD1	38:8B:27:HIS:NE2	2.09	0.84
15:5O:176:ILE:HG22	15:5O:205:CYS:SG	2.17	0.84
18:6B:27:ASP:OD1	18:6B:27:ASP:N	2.05	0.84
1:S0:92:PHE:CD2	24:6Z:40:GLN:NE2	2.44	0.84
12:5F:271:LEU:CD2	12:7B:23:MET:HG2	2.06	0.84
14:5M:219:LEU:CD1	14:5M:228:PHE:CE2	2.60	0.84
18:6C:27:ASP:OD1	18:6C:27:ASP:N	2.05	0.84
1:V6:2:ARG:HB2	1:V6:46:ARG:HH22	1.43	0.84
18:6A:27:ASP:OD1	18:6A:27:ASP:N	2.05	0.84
2:N5:88:HIS:HE1	2:N5:90:GLU:HB2	1.41	0.84
2:W1:224:TYR:HB2	1:W2:245:GLN:HE21	1.43	0.84
1:1K:242:PHE:HB3	1:1K:356:ILE:HD13	1.56	0.84
1:2I:220:PRO:HD2	2:2J:326:LYS:HD2	1.59	0.84
8:4W:463:THR:HG21	8:4X:128:LEU:CD1	2.07	0.84
14:5N:208:TYR:CD1	14:5N:220:GLN:NE2	2.45	0.84
15:5O:6:ARG:HH11	15:5O:27:PHE:HE2	1.24	0.84
18:5Y:27:ASP:OD1	18:5Y:27:ASP:N	2.05	0.84
2:E5:282:TYR:CD2	22:6K:82:LEU:CD2	2.59	0.84
1:S0:150:LEU:HD11	17:5U:58:PRO:HB3	1.59	0.84
2:3R:130:THR:OG1	3:4H:170:GLU:OE2	1.94	0.84
15:5O:213:THR:O	15:5O:217:GLU:HG2	1.77	0.84
23:6R:28:LYS:HA	23:6R:28:LYS:HE2	1.59	0.84
1:3I:77:ARG:HH21	3:3Z:19:LEU:HD23	1.42	0.84
2:K1:133:GLN:HE22	2:K1:251:ASP:HB2	1.42	0.84
1:M2:418:LEU:HG	1:M2:422:TYR:HE2	1.43	0.84
2:M7:284:GLU:OE2	2:M7:285:GLN:O	1.96	0.84
1:S2:125:GLU:OE2	1:S2:159:TYR:OH	1.96	0.84
2:W5:56:THR:HG22	2:Y1:285:GLN:HB2	1.59	0.84
1:W8:113:ILE:HD13	1:W8:150:LEU:HD22	1.60	0.84
1:1C:388:MET:HE2	2:1D:348:PRO:HD2	1.58	0.84
14:5M:219:LEU:CD1	14:5M:228:PHE:CD2	2.56	0.84
14:5N:225:ARG:HB3	14:5N:227:LEU:HD13	1.59	0.84
18:6D:27:ASP:OD1	18:6D:27:ASP:N	2.05	0.84
2:A2:226:ASN:OD1	26:7F:78:ALA:HB1	1.78	0.84
1:B5:362:LYS:NZ	18:6A:24:ARG:HD3	1.91	0.84
1:K0:220:PRO:HD2	2:K1:326:LYS:HD2	1.59	0.84
2:N5:88:HIS:CE1	2:N5:90:GLU:HB2	2.11	0.84
2:1L:121:ARG:HG2	2:1L:121:ARG:NH1	1.87	0.84
1:2Q:320:ARG:HH12	38:8A:198:THR:HA	1.42	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z0:207:LEU:HD11	1:Z0:229:ILE:HD11	1.60	0.84
1:Z4:113:ILE:HD13	1:Z4:150:LEU:HD22	1.58	0.84
2:1L:88:HIS:HD2	2:2B:283:HIS:HB3	1.41	0.84
3:4B:60:PRO:HG2	3:4B:102:PRO:HB3	1.60	0.84
3:4F:60:PRO:HG2	3:4F:102:PRO:HB3	1.60	0.84
18:5Z:27:ASP:OD1	18:5Z:27:ASP:N	2.05	0.84
24:6X:483:PHE:HB2	24:6X:496:LYS:HA	1.60	0.84
1:1:306:ARG:NH1	3:3V:60:PRO:O	2.10	0.83
1:1G:375:GLN:HB2	1:1G:419:VAL:HG13	1.60	0.83
2:2D:156:ARG:NH2	38:8A:29:GLY:O	2.11	0.83
18:5X:27:ASP:OD1	18:5X:27:ASP:N	2.05	0.83
37:7Y:55:LEU:HD12	37:7Y:55:LEU:O	1.77	0.83
2:O5:90:GLU:HA	2:O5:90:GLU:OE2	1.78	0.83
1:R2:94:GLN:NE2	13:5I:18:ARG:HA	1.92	0.83
1:1U:165:LEU:HD21	1:1U:250:LEU:HD21	1.59	0.83
3:3X:60:PRO:HG2	3:3X:102:PRO:HB3	1.61	0.83
2:W7:90:GLU:HB3	2:W7:121:ARG:HH12	1.42	0.83
1:2E:95:THR:HG21	38:8B:83:ARG:HH12	0.68	0.83
3:4H:60:PRO:HG2	3:4H:102:PRO:HB3	1.60	0.83
15:5O:59:LEU:HD12	15:5O:59:LEU:O	1.78	0.83
26:7E:58:ILE:HD12	26:7E:58:ILE:H	1.41	0.83
26:7F:138:THR:HG22	26:7F:139:PRO:CD	2.07	0.83
2:G3:42:ILE:HD11	24:6W:470:ILE:HD11	0.85	0.83
2:M7:90:GLU:N	1:O4:281:TYR:OH	2.11	0.83
1:R2:94:GLN:HE22	13:5I:18:ARG:CA	1.90	0.83
2:X7:157:LEU:HD11	2:X7:166:LYS:HD3	1.61	0.83
3:3V:60:PRO:HG2	3:3V:102:PRO:HB3	1.61	0.83
3:3Z:60:PRO:HG2	3:3Z:102:PRO:HB3	1.60	0.83
3:4D:60:PRO:HG2	3:4D:102:PRO:HB3	1.60	0.83
4:4G:35:LYS:NZ	3:4H:254:LYS:O	2.11	0.83
17:5U:174:SER:CB	17:5U:175:PRO:HD2	2.08	0.83
38:8C:36:GLU:OE1	38:8C:39:LYS:CE	2.26	0.83
1:M0:86:ARG:HB3	2:N7:283:HIS:CE1	2.14	0.83
1:M6:1:MET:HE1	37:7Y:116:MET:HB2	1.58	0.83
2:W9:88:HIS:HA	2:Y5:283:HIS:NE2	1.92	0.83
15:5O:226:ARG:HH11	15:5O:226:ARG:CG	1.91	0.83
20:6F:73:GLN:HB2	20:6F:292:VAL:HB	1.61	0.83
24:6X:514:TYR:CA	24:6X:517:LEU:CD1	2.56	0.83
24:6X:558:LEU:HD22	24:6X:608:GLN:HB3	1.58	0.83
2:G7:90:GLU:CB	2:G7:121:ARG:HH12	1.86	0.83
1:1O:16:ILE:HD11	1:1O:136:CYS:HB3	1.61	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H3:56:THR:HA	2:I9:285:GLN:HB2	1.60	0.83
2:M1:84:ARG:NH2	27:7G:111:TYR:O	2.11	0.83
1:S0:92:PHE:CE2	24:6Z:33:LEU:HD23	2.11	0.83
2:M9:35:GLN:CD	2:M9:40:LYS:HZ2	1.82	0.83
2:M9:279:GLU:OE1	2:M9:279:GLU:N	2.12	0.83
2:P9:398:MET:HG2	1:Q0:345:ILE:HD13	1.61	0.83
22:6M:59:PRO:HB3	22:6M:108:ARG:NH2	1.94	0.83
2:K5:219:ILE:CG2	29:7I:14:LEU:CD1	2.42	0.83
1:Y2:248:ALA:HA	1:Y2:252:LYS:HD3	1.61	0.83
2:1P:284:GLU:HA	2:1P:284:GLU:OE1	1.77	0.83
1:2Q:320:ARG:NH1	38:8A:198:THR:HG23	1.94	0.83
1:3C:35:THR:HG21	38:8D:161:GLN:HE22	1.44	0.83
2:3F:130:THR:OG1	3:3V:170:GLU:OE2	1.95	0.83
2:S7:42:ILE:HG13	2:S7:43:GLY:H	1.42	0.83
1:0K:388:MET:HE3	2:0L:348:PRO:HD3	1.60	0.83
24:6V:547:LYS:HG2	24:6V:554:ASP:HB3	1.60	0.83
1:F8:276:ARG:HD3	24:6U:410:PHE:HA	1.58	0.82
29:7J:388:MET:HA	29:7J:388:MET:CE	2.09	0.82
2:Z9:9:ILE:HG13	2:Z9:139:ASN:HB3	1.60	0.82
1:1O:248:ALA:HA	1:1O:252:LYS:HD3	1.60	0.82
1:2S:77:ARG:HH22	38:8B:220:VAL:HA	1.44	0.82
7:4U:187:THR:HG21	31:7N:78:HIS:CE1	2.14	0.82
24:6Z:130:MET:SD	24:6Z:166:PHE:CZ	2.72	0.82
2:P5:269:LEU:HD22	2:P5:303:VAL:HG11	1.60	0.82
2:Y9:298:PRO:HA	2:Y9:301:MET:HG3	1.60	0.82
26:7D:138:THR:CG2	26:7D:139:PRO:CD	2.56	0.82
1:Q4:396:HIS:HA	1:Q4:399:THR:HG22	1.60	0.82
1:U8:113:ILE:HD13	1:U8:150:LEU:HD22	1.61	0.82
2:0H:102:ASN:HD21	2:0H:411:GLU:HG3	1.44	0.82
2:1Z:123:ARG:NH1	38:7Z:35:GLU:OE2	2.12	0.82
2:4:280:LYS:HZ2	26:7D:64:PRO:HG2	1.39	0.82
2:A2:82:THR:HG23	26:7F:118:SER:HB2	1.62	0.82
1:2K:211:CYS:HA	1:2K:215:LEU:HB2	1.60	0.82
14:5L:116:ARG:HB3	14:5L:116:ARG:NH1	1.93	0.82
17:5S:178:ARG:NH2	17:5S:229:LEU:O	2.12	0.82
24:6X:451:LYS:CG	24:6X:468:ARG:HH12	1.92	0.82
34:7R:230:SER:HB2	35:7T:184:LEU:HD22	1.60	0.82
1:Q8:235:GLY:HA3	1:Q8:366:THR:HG21	1.62	0.82
2:R5:85:GLN:O	2:T1:283:HIS:HE1	1.62	0.82
1:V8:7:ILE:HB	1:V8:135:VAL:HG12	1.60	0.82
2:1F:90:GLU:HB3	2:1F:121:ARG:HH12	1.44	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:5F:378:LYS:NZ	12:7B:40:GLU:OE2	2.13	0.82
2:2:396:ASP:OD1	4:3W:53:ASN:ND2	2.12	0.82
2:M3:283:HIS:NE2	30:7K:199:TYR:OH	2.07	0.82
1:X0:42:LEU:HD23	8:4X:97:PHE:CE2	2.14	0.82
1:Z0:379:LYS:HD3	1:Z0:419:VAL:HG21	1.60	0.82
2:1D:56:THR:HA	2:1T:285:GLN:HB2	1.61	0.82
1:2E:95:THR:CB	38:8B:83:ARG:NH1	2.43	0.82
1:2Q:306:ARG:CZ	38:8A:96:GLY:C	2.47	0.82
15:5P:333:GLU:HG3	30:7K:106:LEU:HD23	1.62	0.82
2:P9:176:GLN:HE22	2:P9:304:LYS:HE2	1.43	0.82
1:T8:418:LEU:HG	1:T8:422:TYR:HE2	1.42	0.82
2:X3:56:THR:HG22	2:Y9:285:GLN:HB2	1.61	0.82
1:S0:92:PHE:CD2	24:6Z:33:LEU:HD23	2.14	0.82
2:U9:9:ILE:HG22	2:U9:68:LEU:HD11	1.62	0.82
2:V1:56:THR:HG23	2:V1:60:LYS:HB3	1.62	0.82
2:W1:85:GLN:O	2:X7:283:HIS:NE2	2.12	0.82
2:1V:245:ASP:HA	2:1V:249:ASN:HD21	1.43	0.82
1:O2:7:ILE:HB	1:O2:135:VAL:HG12	1.61	0.81
2:X7:88:HIS:HB3	2:Z3:283:HIS:CE1	2.15	0.81
2:Z1:9:ILE:HG13	2:Z1:139:ASN:HB3	1.62	0.81
2:Z1:242:LEU:HD12	2:Z1:252:ILE:HD11	1.62	0.81
18:5X:5:VAL:HG11	18:5X:62:GLU:HG2	1.62	0.81
24:6Z:130:MET:SD	24:6Z:166:PHE:HZ	2.03	0.81
2:A0:43:GLY:HA2	24:6X:124:TYR:HE2	1.43	0.81
2:A2:40:LYS:NZ	26:7F:46:ASN:H	1.78	0.81
1:T4:173:PRO:HB3	1:T4:384:GLN:HE22	1.45	0.81
2:Z9:352:LYS:NZ	2:Z9:353:CYS:O	2.14	0.81
1:0I:33:THR:O	1:0I:58:ARG:NH2	2.10	0.81
2:1Z:88:HIS:HD2	2:1Z:89:PRO:HD2	1.40	0.81
2:2N:161:TYR:CE1	38:8D:80:TYR:HB3	2.15	0.81
10:5C:477:LYS:HB3	10:5D:154:MET:HE1	1.62	0.81
15:5O:6:ARG:NH1	15:5O:27:PHE:CE2	2.48	0.81
15:5O:36:GLU:OE2	15:5O:49:ARG:HG2	1.79	0.81
1:5:337:ASN:ND2	3:3Z:69:TYR:H	1.77	0.81
1:H6:276:ARG:NH1	24:6V:489:ASN:O	2.14	0.81
1:I2:175:VAL:HG12	2:I3:329:ASN:HD21	1.45	0.81
2:P5:56:THR:HG23	2:P5:60:LYS:HB3	1.61	0.81
2:U9:154:LEU:HD22	2:U9:197:HIS:HB3	1.63	0.81
1:1W:375:GLN:HB2	1:1W:419:VAL:HG13	1.61	0.81
17:5T:227:ARG:O	17:5T:230:GLU:HG3	1.79	0.81
24:6T:558:LEU:HD22	24:6T:608:GLN:HB3	1.63	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:6V:6:PRO:N	24:6V:7:PRO:CD	2.42	0.81
1:O8:220:PRO:HD2	2:O9:326:LYS:HD3	1.61	0.81
1:OY:53:GLU:OE2	1:OY:53:GLU:HA	1.79	0.81
2:G3:85:GLN:HA	2:G3:85:GLN:NE2	1.90	0.81
1:I4:276:ARG:HH11	24:6Z:490:THR:C	1.83	0.81
2:L3:276:ILE:HD11	2:L3:281:ALA:HA	1.60	0.81
1:M2:220:PRO:HD2	2:M3:326:LYS:HD3	1.60	0.81
2:V9:255:PHE:HA	2:V9:259:LEU:HD13	1.61	0.81
2:W7:154:LEU:HD22	2:W7:197:HIS:HB3	1.63	0.81
1:OG:11:GLN:NE2	39:OG:501:GDP:O1A	2.14	0.81
2:2H:88:HIS:CE1	2:2H:90:GLU:CB	2.63	0.81
14:5N:511:THR:HB	14:5N:531:ASP:HB3	1.63	0.81
22:6P:138:ASP:HA	22:6P:141:LYS:HD2	1.61	0.81
1:J4:113:ILE:HG13	1:J4:150:LEU:HD22	1.60	0.81
2:K7:88:HIS:HD1	2:K7:89:PRO:HD2	1.45	0.81
1:T4:173:PRO:HG2	1:T4:380:ARG:HH21	1.45	0.81
2:U3:154:LEU:HD22	2:U3:197:HIS:HB3	1.61	0.81
2:V1:264:ARG:NH2	2:V1:431:ASP:OD2	2.14	0.81
2:ON:234:VAL:HG21	2:ON:302:MET:HE1	1.62	0.81
1:OW:249:ASP:H	1:OW:252:LYS:HD2	1.45	0.81
2:2L:101:ASN:OD1	1:2M:252:LYS:HE3	1.81	0.81
2:2P:262:TYR:HB2	2:2P:265:ILE:HG12	1.61	0.81
2:2Z:308:ARG:NH2	38:8C:72:ASP:HB2	1.96	0.81
1:5:227:HIS:NE2	26:7D:133:PHE:O	2.12	0.81
2:8:29:GLY:C	26:7E:45:MET:HE3	1.99	0.81
2:E7:282:TYR:CD2	22:6L:82:LEU:HD21	2.16	0.81
1:OS:237:THR:HG23	1:OS:241:ARG:HH21	1.45	0.81
1:I0:218:THR:HG1	24:6X:489:ASN:N	1.78	0.81
1:I2:218:THR:HG21	24:6Y:488:ARG:O	1.81	0.81
1:T2:245:GLN:HE21	12:5F:177:THR:HG21	1.44	0.81
2:U9:88:HIS:ND1	2:U9:89:PRO:CD	2.41	0.81
1:E6:52:ASN:CG	22:6L:181:ASN:ND2	2.32	0.81
1:G2:248:ALA:HA	1:G2:252:LYS:HD3	1.62	0.81
1:G2:272:PRO:HB2	1:G2:282:ARG:HH12	1.43	0.81
1:L4:44:LEU:HD23	29:7J:339:GLN:OE1	1.78	0.81
2:L7:88:HIS:HB3	2:N3:283:HIS:ND1	1.96	0.81
2:O1:88:HIS:ND1	2:O1:89:PRO:HD2	1.94	0.81
1:S0:92:PHE:CZ	24:6Z:40:GLN:HG3	2.16	0.81
1:1C:4:ILE:HB	1:1C:50:TYR:HE1	1.45	0.81
2:2L:276:ILE:CG2	2:2L:281:ALA:HB2	2.09	0.81
1:3G:218:THR:OG1	17:5S:213:GLU:OE1	1.99	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:4M:76:LEU:HB2	15:5P:361:LEU:HD11	1.61	0.81
14:5L:112:SER:CA	14:5L:155:PHE:HD2	1.94	0.81
1:3M:34:GLY:O	1:3M:58:ARG:HA	1.81	0.81
24:6U:469:PHE:HA	24:6U:485:PRO:HD2	1.60	0.81
2:A2:40:LYS:NZ	26:7F:46:ASN:N	2.28	0.80
2:H3:90:GLU:HB3	2:H3:121:ARG:HH12	1.44	0.80
2:J3:90:GLU:HB3	2:J3:121:ARG:HH12	1.45	0.80
2:M5:121:ARG:HH11	2:M5:121:ARG:CB	1.94	0.80
2:U7:154:LEU:HD22	2:U7:197:HIS:HB3	1.61	0.80
1:0W:55:THR:HG22	1:1M:284:LEU:CD1	2.12	0.80
2:2H:279:GLU:OE1	10:5B:167:ILE:HG12	1.81	0.80
2:L3:89:PRO:CB	29:7J:320:PRO:HG2	2.10	0.80
2:S7:94:SER:OG	26:7D:67:GLN:OE1	1.99	0.80
1:S8:375:GLN:HB2	1:S8:419:VAL:HG23	1.63	0.80
2:0H:60:LYS:HD3	2:0H:88:HIS:HE1	1.45	0.80
1:2Q:306:ARG:NH1	38:8A:95:LYS:C	2.34	0.80
22:6M:63:PRO:HB2	24:6X:399:ILE:HG22	1.63	0.80
1:T4:390:ARG:NH1	1:T4:390:ARG:HB3	1.97	0.80
2:Z7:181:VAL:HG22	1:Z8:256:ASN:HD22	1.46	0.80
2:0V:100:ALA:HA	1:0W:252:LYS:HG2	1.62	0.80
2:1F:85:GLN:O	2:1V:283:HIS:HE1	1.58	0.80
2:1V:33:ASP:O	2:1V:60:LYS:NZ	2.15	0.80
2:1Z:121:ARG:HD3	2:1Z:121:ARG:O	1.81	0.80
2:2N:250:VAL:HB	2:2N:254:GLU:HG3	1.63	0.80
15:5O:34:GLU:CG	15:5O:49:ARG:HD3	2.11	0.80
2:K1:277:SER:H	2:K1:280:LYS:HZ3	1.29	0.80
2:M1:81:GLY:O	2:M1:84:ARG:NH1	2.15	0.80
1:V6:7:ILE:HB	1:V6:135:VAL:HG12	1.62	0.80
2:W9:274:PRO:HG3	2:W9:286:LEU:HD21	1.61	0.80
26:7F:146:ASN:H	26:7F:146:ASN:HD22	1.29	0.80
2:8:29:GLY:C	26:7E:45:MET:CE	2.49	0.80
2:O3:90:GLU:HB3	2:O3:121:ARG:HH22	1.47	0.80
2:O5:89:PRO:HG2	2:Q3:279:GLU:OE1	1.81	0.80
24:6X:514:TYR:O	24:6X:517:LEU:CD1	2.30	0.80
24:6Y:42:GLU:OE2	24:6Y:42:GLU:N	2.13	0.80
1:B8:362:LYS:HZ3	18:6B:24:ARG:HD3	1.44	0.80
2:J5:282:TYR:HE1	5:4M:159:ILE:HD11	1.47	0.80
2:K3:154:LEU:HG	2:K3:197:HIS:HB3	1.63	0.80
2:1F:90:GLU:CB	2:1F:121:ARG:HH12	1.93	0.80
15:5O:99:LYS:CG	15:5O:203:ASN:O	2.29	0.80
2:A0:43:GLY:HA2	24:6X:124:TYR:CE2	2.16	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J3:48:ALA:HB2	16:5Q:174:THR:OG1	1.81	0.80
2:S1:22:GLU:OE2	12:5F:82:LYS:NZ	2.14	0.80
2:X5:5:ILE:HG22	2:X5:64:ARG:HB3	1.63	0.80
2:1F:93:ILE:HD12	2:1F:117:LEU:HD21	1.64	0.80
2:1V:92:LEU:N	2:1V:92:LEU:HD23	1.95	0.80
5:4M:293:LEU:HD12	28:7X:305:ALA:CB	2.12	0.80
1:L4:36:TYR:O	29:7J:335:GLU:OE2	1.99	0.80
2:P3:274:PRO:HG3	2:P3:286:LEU:CD2	2.12	0.80
2:3F:88:HIS:HB2	2:3F:91:GLN:HE22	1.46	0.80
1:I0:218:THR:HG1	24:6X:488:ARG:HG2	1.47	0.80
1:Y2:7:ILE:HB	1:Y2:135:VAL:HG12	1.64	0.80
2:3B:339:ARG:CD	38:8C:39:LYS:NZ	2.36	0.80
14:5N:188:ALA:HA	14:5N:226:VAL:HB	1.62	0.80
15:5O:12:GLU:OE1	15:5O:74:LYS:CE	2.30	0.80
26:7D:59:ARG:HB2	26:7D:59:ARG:HH21	1.43	0.80
1:W0:202:LEU:CD2	1:W0:229:ILE:HD13	2.12	0.80
1:1A:375:GLN:HB2	1:1A:419:VAL:HG13	1.63	0.80
1:2U:320:ARG:HH22	38:8B:198:THR:HA	1.45	0.80
2:3H:163:LYS:HE3	3:3X:137:ARG:HG2	1.64	0.80
2:3P:239:THR:HG23	2:3P:243:ARG:HE	1.46	0.80
2:3T:428:LEU:HG	2:3T:432:PHE:CE2	2.16	0.80
2:I3:57:GLY:N	2:J9:285:GLN:HG3	1.96	0.79
1:I8:175:VAL:HG12	2:I9:329:ASN:HD21	1.47	0.79
2:S7:334:THR:HG22	13:5H:134:PHE:H	1.45	0.79
2:W1:255:PHE:HA	2:W1:259:LEU:HD13	1.64	0.79
2:0X:399:TYR:O	2:0X:402:ARG:NH1	2.15	0.79
1:1E:375:GLN:HB2	1:1E:419:VAL:HG13	1.64	0.79
2:3J:88:HIS:HB2	2:3J:91:GLN:HE22	1.47	0.79
29:7I:165:ARG:HH12	29:7I:232:ASP:HA	1.46	0.79
2:M5:58:ALA:CB	37:7Y:214:ASP:HB3	2.13	0.79
2:O1:199:ASP:HB3	2:O1:256:GLN:HE22	1.44	0.79
1:V6:215:LEU:HB3	1:V6:217:LEU:HD23	1.64	0.79
1:Z4:8:GLN:NE2	1:Z4:13:GLY:O	2.15	0.79
1:2A:68:LEU:HB3	1:2A:96:GLY:HA2	1.63	0.79
2:3R:221:ARG:NH1	38:8D:179:ASP:OD1	2.14	0.79
24:6Y:254:SER:HA	24:6Y:257:LEU:HD12	1.63	0.79
1:5:227:HIS:HE1	26:7D:133:PHE:O	1.18	0.79
1:B8:362:LYS:NZ	18:6B:24:ARG:HD3	1.96	0.79
1:R0:67:ASP:OD2	1:R0:72:THR:OG1	2.00	0.79
1:X4:250:LEU:HA	1:X4:253:LEU:HD12	1.64	0.79
2:X9:56:THR:HG22	2:Z5:285:GLN:HB2	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1O:113:ILE:HD13	1:1O:150:LEU:HD22	1.63	0.79
1:2Q:306:ARG:NE	38:8A:96:GLY:C	2.35	0.79
24:6W:91:ASN:HB3	24:6W:94:LYS:HD2	1.64	0.79
24:6X:467:ARG:HH11	24:6X:484:GLU:CD	1.84	0.79
1:E2:320:ARG:HH12	22:6J:115:SER:HA	1.45	0.79
1:Q8:162:ARG:HA	1:Q8:251:ARG:HH22	1.48	0.79
2:R5:85:GLN:O	2:T1:283:HIS:CE1	2.35	0.79
2:S5:334:THR:HG22	13:5H:19:LEU:HB3	1.64	0.79
1:Z6:7:ILE:HB	1:Z6:135:VAL:HG12	1.64	0.79
2:0H:176:GLN:HE22	2:0H:304:LYS:HE2	1.45	0.79
5:4M:293:LEU:HB3	28:7X:306:LEU:CD2	2.13	0.79
1:R8:125:GLU:OE2	1:R8:159:TYR:OH	2.01	0.79
1:S4:396:HIS:HA	1:S4:399:THR:HG22	1.64	0.79
1:3M:391:ARG:HH22	2:3N:435:VAL:HG13	1.46	0.79
2:3N:122:ILE:HA	2:3N:125:LEU:HD12	1.64	0.79
1:3Q:252:LYS:HA	1:3Q:255:VAL:CG1	2.10	0.79
17:5S:178:ARG:NH2	17:5S:232:GLY:O	2.16	0.79
20:6F:31:LEU:HD11	30:7K:8:LEU:HD12	1.62	0.79
24:6Z:613:LYS:O	24:6Z:617:ASP:HB2	1.83	0.79
2:G3:278:ALA:HB3	22:6M:215:GLY:HA2	1.65	0.79
2:H3:88:HIS:HD2	2:H3:121:ARG:HH22	1.25	0.79
2:J9:324:VAL:HG21	2:J9:326:LYS:HZ3	1.48	0.79
1:T4:282:ARG:HH21	1:T4:288:GLU:HG3	1.47	0.79
2:K5:279:GLU:OE2	29:7I:24:PRO:HD2	1.80	0.79
2:M7:89:PRO:CG	19:6E:25:VAL:HG11	2.13	0.79
1:R4:67:ASP:OD2	1:R4:72:THR:OG1	2.01	0.79
2:R5:88:HIS:CD2	2:R5:89:PRO:HD2	2.17	0.79
2:S5:339:ARG:HB3	13:5H:26:ALA:HB2	1.65	0.79
2:U5:154:LEU:HD22	2:U5:197:HIS:HB3	1.63	0.79
2:2H:123:ARG:HH22	38:8B:37:TYR:CA	1.94	0.79
2:2N:161:TYR:CD1	38:8D:80:TYR:HB3	2.16	0.79
1:3S:396:HIS:HA	1:3S:399:THR:HG22	1.63	0.79
24:6T:470:ILE:CD1	24:6T:485:PRO:CG	2.60	0.79
36:7W:98:VAL:O	36:7W:102:MET:HB2	1.82	0.79
1:M6:220:PRO:HD2	2:M7:326:LYS:HD3	1.63	0.79
2:O1:226:ASN:HD21	37:7Y:250:GLN:HE22	1.27	0.79
2:P5:90:GLU:CB	2:P5:121:ARG:HH12	1.94	0.79
1:Q4:391:ARG:HH11	2:Q5:346:TRP:HE1	1.28	0.79
1:Q6:113:ILE:HD13	1:Q6:150:LEU:HD22	1.63	0.79
1:1O:211:CYS:HA	1:1O:215:LEU:HB2	1.64	0.79
22:6L:177:LEU:HD11	22:6L:252:ASP:CG	2.03	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:8A:87:LYS:O	38:8A:87:LYS:HD2	1.82	0.79
2:E1:364:PRO:HG2	22:6J:123:PRO:HB2	1.65	0.79
2:H1:317:LEU:HB3	2:H1:319:TYR:HE1	1.48	0.79
2:Q9:280:LYS:HA	2:Q9:283:HIS:CD2	2.18	0.79
2:T1:324:VAL:H	7:4U:25:ARG:HH21	1.28	0.79
2:T5:56:THR:HG23	2:T5:60:LYS:HB3	1.63	0.79
2:Y3:9:ILE:HG12	2:Y3:68:LEU:HD21	1.64	0.79
1:Z4:7:ILE:HB	1:Z4:135:VAL:HG12	1.64	0.79
2:Z5:324:VAL:HG22	2:Z5:326:LYS:H	1.48	0.79
1:0E:390:ARG:HB3	1:0E:390:ARG:NH2	1.96	0.79
1:0M:5:VAL:HG23	1:0M:62:ARG:HG2	1.65	0.79
1:1U:4:ILE:HG22	1:1U:49:VAL:HG22	1.65	0.79
20:6F:125:LYS:HD2	20:6F:344:LEU:HD21	1.65	0.79
24:6X:451:LYS:CG	24:6X:468:ARG:NH1	2.44	0.79
24:6X:482:ILE:HB	24:6X:498:LEU:HB3	1.65	0.79
2:A2:29:GLY:CA	26:7F:45:MET:CE	2.61	0.79
1:R4:135:VAL:HG11	1:R4:152:ILE:HD11	1.65	0.79
1:X2:7:ILE:HB	1:X2:135:VAL:HG12	1.64	0.79
1:0S:375:GLN:HB2	1:0S:419:VAL:HG23	1.65	0.79
1:2Q:320:ARG:HH22	38:8A:198:THR:HA	1.46	0.79
2:J7:277:SER:CB	2:J7:280:LYS:HZ2	1.84	0.78
2:J7:358:GLN:HE21	29:7J:416:HIS:HB2	1.46	0.78
2:W3:255:PHE:HA	2:W3:259:LEU:HD13	1.65	0.78
1:X6:204:ASN:HD21	39:X6:502:GDP:HN22	1.29	0.78
2:Z5:265:ILE:HD11	2:Z5:435:VAL:HG21	1.64	0.78
19:6E:70:VAL:HG12	19:6E:71:ILE:HG23	1.64	0.78
24:6X:451:LYS:CD	24:6X:468:ARG:NH1	1.87	0.78
38:8C:8:GLU:HG3	38:8C:21:LYS:HD3	1.65	0.78
38:8D:206:PRO:HG2	38:8D:209:HIS:HE1	1.41	0.78
2:4:15:GLN:NE2	26:7D:113:ARG:HH22	1.80	0.78
1:H2:211:CYS:HA	1:H2:215:LEU:HB2	1.66	0.78
2:M5:121:ARG:HH11	2:M5:121:ARG:CA	1.95	0.78
1:U2:276:ARG:HH11	1:U2:279:GLN:HB3	1.46	0.78
1:0W:54:ALA:HB3	1:0W:58:ARG:HB3	1.65	0.78
38:8A:91:GLN:CB	38:8A:102:PHE:HD1	1.95	0.78
2:G3:90:GLU:HB3	2:G3:121:ARG:HH12	1.49	0.78
2:M1:275:ILE:HD12	2:M1:368:LEU:HD21	1.65	0.78
2:V1:132:LEU:HD22	2:V1:164:LYS:HD3	1.65	0.78
14:5L:116:ARG:HH11	14:5L:116:ARG:CB	1.96	0.78
26:7F:138:THR:CG2	26:7F:139:PRO:CD	2.62	0.78
2:I1:88:HIS:CD2	2:I1:89:PRO:HD2	2.18	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W9:274:PRO:HG3	2:W9:286:LEU:CD2	2.13	0.78
1:Y8:45:GLU:HG3	1:Y8:46:ARG:HG2	1.63	0.78
1:Z0:397:TRP:HE1	2:Z1:260:VAL:HB	1.48	0.78
2:Z7:352:LYS:NZ	2:Z7:353:CYS:O	2.17	0.78
1:1C:51:PHE:O	1:1C:62:ARG:NH2	2.16	0.78
2:1V:79:ARG:HE	2:1V:92:LEU:HD12	1.48	0.78
14:5M:489:SER:HA	14:5M:512:PHE:HB3	1.63	0.78
19:6E:92:ARG:HD3	19:6E:99:ARG:NE	1.99	0.78
1:K6:113:ILE:HD13	1:K6:150:LEU:HD22	1.65	0.78
2:N9:56:THR:HG22	2:P7:285:GLN:HB2	1.65	0.78
2:V1:76:ASP:HA	2:V1:79:ARG:HB2	1.65	0.78
1:X0:42:LEU:HD23	8:4X:97:PHE:CZ	2.19	0.78
1:X0:42:LEU:HG	8:4X:97:PHE:CZ	2.17	0.78
2:Y1:56:THR:HG22	2:Z7:285:GLN:HB2	1.63	0.78
2:0H:88:HIS:HB3	2:0X:283:HIS:ND1	1.98	0.78
1:1C:418:LEU:HG	1:1C:422:TYR:HE2	1.47	0.78
14:5N:107:GLN:H	14:5N:122:GLY:HA2	1.47	0.78
37:7Y:221:ARG:HB3	37:7Y:231:HIS:CD2	2.19	0.78
1:1:379:LYS:HZ3	3:3V:49:HIS:CD2	1.99	0.78
2:8:221:ARG:NH1	26:7E:73:GLY:O	2.14	0.78
1:1S:334:GLN:HE22	1:1S:348:ASN:H	1.31	0.78
1:2Y:355:ASP:OD2	38:8C:198:THR:CG2	2.32	0.78
24:6Z:597:LEU:HB3	24:6Z:602:LEU:HD21	1.65	0.78
2:W9:11:GLN:OE1	2:W9:74:VAL:HB	1.84	0.78
2:W9:154:LEU:HD22	2:W9:197:HIS:HB3	1.65	0.78
2:Z5:9:ILE:HG22	2:Z5:146:GLY:HA2	1.65	0.78
10:5C:334:ARG:NH2	14:5M:543:ASN:OD1	2.16	0.78
2:J7:181:VAL:HG12	1:J8:256:ASN:HD22	1.47	0.78
1:N2:249:ASP:OD2	1:N2:252:LYS:HE3	1.83	0.78
1:S0:92:PHE:HE2	24:6Z:40:GLN:HE21	0.80	0.78
1:S4:125:GLU:OE1	3:3V:66:THR:HG23	1.84	0.78
1:Y8:165:LEU:HD21	1:Y8:250:LEU:HD21	1.64	0.78
1:Z8:379:LYS:HD3	1:Z8:419:VAL:HG21	1.66	0.78
2:0H:399:TYR:O	2:0H:402:ARG:NH1	2.15	0.78
2:0L:157:LEU:HD22	2:0L:166:LYS:HD3	1.66	0.78
2:0P:399:TYR:O	2:0P:402:ARG:NH1	2.16	0.78
1:1Q:334:GLN:HE22	1:1Q:348:ASN:H	1.29	0.78
1:3A:113:ILE:HD13	1:3A:150:LEU:HD22	1.64	0.78
1:3S:362:LYS:NZ	38:8D:166:GLU:HG3	1.98	0.78
14:5L:107:GLN:H	14:5L:122:GLY:HA2	1.47	0.78
22:6L:108:ARG:NH2	24:6W:284:THR:O	2.17	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:78:SER:HB2	24:6V:149:LYS:HG3	1.65	0.78
2:M3:359:PRO:HG2	30:7K:212:ARG:HH22	1.46	0.78
2:Q5:56:THR:HG23	2:Q5:60:LYS:HB3	1.65	0.78
2:Q5:132:LEU:HD22	2:Q5:164:LYS:HD3	1.65	0.78
1:S8:94:GLN:HB3	24:6W:35:TYR:CE1	2.18	0.78
1:X2:342:VAL:HG12	1:X2:348:ASN:HD21	1.48	0.78
2:1F:56:THR:HA	2:1V:285:GLN:HB2	1.65	0.78
2:1N:313:MET:HE1	2:1N:346:TRP:HH2	1.48	0.78
14:5M:107:GLN:H	14:5M:122:GLY:HA2	1.47	0.78
26:7F:21:THR:HG21	26:7F:120:ALA:HA	1.65	0.78
31:7N:66:HIS:HD2	31:7N:76:THR:HA	1.48	0.78
2:D7:280:LYS:NZ	18:6D:166:HIS:HB3	1.98	0.78
2:F9:88:HIS:HB3	2:H5:283:HIS:ND1	1.99	0.78
1:J0:334:GLN:HE22	1:J0:348:ASN:H	1.30	0.78
2:J7:218:ASP:OD2	2:J7:280:LYS:CE	2.31	0.78
1:Y2:252:LYS:HE2	1:Y2:350:LYS:HE2	1.66	0.78
15:5O:99:LYS:NZ	15:5O:203:ASN:HD21	1.81	0.78
22:6O:114:THR:HG23	22:6O:117:GLY:H	1.46	0.78
2:H3:88:HIS:HD2	2:H3:121:ARG:HH21	1.30	0.77
1:I2:391:ARG:HD3	2:I3:346:TRP:HE1	1.48	0.77
2:X3:305:CYS:HB2	2:X3:387:ILE:HD11	1.66	0.77
2:2D:282:TYR:CZ	10:5A:380:ARG:HD3	2.19	0.77
1:2S:334:GLN:HE22	1:2S:348:ASN:H	1.30	0.77
2:3D:288:VAL:HG21	2:3D:327:ASP:HB2	1.64	0.77
6:4O:408:ARG:NH2	29:7J:435:THR:O	2.17	0.77
24:6X:95:VAL:HG12	24:6X:124:TYR:HD2	1.49	0.77
24:6X:514:TYR:CA	24:6X:517:LEU:HD11	2.13	0.77
1:R2:92:PHE:CZ	24:6V:35:TYR:HE1	2.02	0.77
1:T2:263:LEU:HD22	1:T2:422:TYR:HE1	1.49	0.77
1:T6:125:GLU:OE2	1:T6:159:TYR:OH	2.00	0.77
2:T7:88:HIS:CG	2:T7:89:PRO:HD2	2.17	0.77
2:Z3:157:LEU:HD22	2:Z3:166:LYS:HD3	1.65	0.77
8:4W:468:MET:CE	8:4W:470:TYR:OH	2.31	0.77
26:7F:63:LEU:HD22	26:7F:63:LEU:N	1.98	0.77
2:N1:90:GLU:HB3	1:O8:281:TYR:CE2	2.18	0.77
1:2C:418:LEU:HG	1:2C:422:TYR:HE2	1.48	0.77
1:3I:220:PRO:HD2	2:3J:326:LYS:HD3	1.65	0.77
15:5O:65:VAL:HG22	15:5O:74:LYS:HB3	1.66	0.77
15:5P:34:GLU:CD	15:5P:49:ARG:HE	1.86	0.77
24:6V:11:LEU:HB3	24:6V:12:PRO:HD2	1.64	0.77
36:7W:99:GLU:O	36:7W:103:ASN:CG	2.22	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:219:THR:CB	26:7D:142:PHE:CE1	2.67	0.77
1:M6:37:HIS:CE1	15:5P:295:ASN:HD21	1.98	0.77
1:N0:388:MET:HE2	2:N1:348:PRO:HD2	1.65	0.77
2:R9:364:PRO:HD3	33:7Q:188:ALA:HB2	1.65	0.77
2:W7:255:PHE:HA	2:W7:259:LEU:HD13	1.65	0.77
1:0K:33:THR:O	1:0K:58:ARG:NH2	2.18	0.77
1:3S:276:ARG:HH12	17:5V:219:LEU:HD13	1.50	0.77
7:4U:26:THR:HG21	19:6E:261:TYR:HB2	1.65	0.77
14:5L:381:PRO:HD2	23:6Q:59:GLY:HA3	1.65	0.77
14:5N:511:THR:HG21	14:5N:531:ASP:H	1.48	0.77
16:5Q:88:THR:HG23	16:5Q:89:HIS:HD2	1.49	0.77
17:5T:189:TRP:HD1	17:5T:222:ILE:CG2	1.96	0.77
21:6G:65:LEU:HD12	21:6G:66:PRO:HD2	1.66	0.77
23:6R:13:THR:O	23:6R:17:THR:HG23	1.85	0.77
1:E8:276:ARG:CZ	24:6X:313:SER:O	2.31	0.77
2:L3:276:ILE:CD1	2:L3:281:ALA:HA	2.14	0.77
2:L7:119:LEU:HD11	2:L7:156:ARG:HD3	1.64	0.77
1:R0:45:GLU:HG3	1:R0:46:ARG:HG2	1.66	0.77
1:R4:217:LEU:HD22	7:4R:134:GLU:HB2	1.66	0.77
2:S5:33:ASP:O	2:S5:60:LYS:NZ	2.16	0.77
1:Z0:139:LEU:HD12	1:Z0:170:VAL:HG22	1.65	0.77
2:1R:313:MET:CE	2:1R:346:TRP:HZ2	1.82	0.77
2:6:39:ASP:OD1	24:6V:187:PHE:N	2.17	0.77
1:A3:219:THR:HB	26:7F:142:PHE:CE2	2.17	0.77
1:H4:113:ILE:HA	1:H4:116:VAL:HG22	1.67	0.77
1:H8:113:ILE:HG13	1:H8:150:LEU:HD22	1.66	0.77
1:L0:339:SER:H	34:7R:140:ASN:HD21	1.32	0.77
2:O9:88:HIS:HB2	2:O9:91:GLN:HE22	1.48	0.77
1:P4:286:VAL:HG23	1:P4:287:PRO:HD3	1.65	0.77
2:Q5:308:ARG:NH1	2:V3:282:TYR:OH	2.18	0.77
2:W3:267:PHE:HB2	2:W3:384:ILE:HD12	1.64	0.77
1:3S:362:LYS:HE3	38:8D:166:GLU:HG3	0.78	0.77
7:4T:184:LEU:CD2	31:7M:78:HIS:ND1	2.48	0.77
26:7D:136:PHE:HB3	26:7D:137:PRO:HD2	1.65	0.77
29:7I:254:MET:HE1	30:7K:341:ARG:HD3	1.66	0.77
1:M6:75:SER:CA	15:5P:48:LYS:CE	2.51	0.77
2:W9:88:HIS:NE2	2:W9:121:ARG:NH2	2.31	0.77
1:0O:134:GLN:HE21	1:0O:167:PHE:HE2	1.33	0.77
2:2R:195:LEU:HD11	2:2R:264:ARG:HH11	1.50	0.77
31:7N:80:PRO:HD2	31:7N:83:THR:CG2	2.14	0.77
2:G9:27:GLU:OE2	2:G9:243:ARG:NH1	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J8:220:PRO:HD2	2:J9:326:LYS:HD3	1.67	0.77
1:M8:173:PRO:HD2	1:M8:380:ARG:HH21	1.50	0.77
2:Q9:176:GLN:HE22	2:Q9:304:LYS:HE2	1.49	0.77
1:T6:22:GLU:OE2	24:7A:10:LYS:NZ	2.15	0.77
2:W3:88:HIS:CD2	2:W3:89:PRO:HD2	2.20	0.77
2:W7:276:ILE:HD11	2:W7:281:ALA:HA	1.65	0.77
1:0G:33:THR:O	1:0G:58:ARG:NH2	2.18	0.77
1:0G:248:ALA:HA	1:0G:252:LYS:HD3	1.64	0.77
1:3M:272:PRO:HB2	1:3M:282:ARG:HH12	1.49	0.77
19:6E:92:ARG:HG3	19:6E:99:ARG:HE	1.48	0.77
1:G4:285:THR:HG22	1:G4:287:PRO:HD2	1.65	0.77
1:G2:392:LYS:HE3	1:G2:395:LEU:HD23	1.64	0.77
2:Z3:34:GLY:HA3	2:Z3:60:LYS:HZ2	1.50	0.77
1:0C:97:ALA:HA	1:0C:103:LYS:HD2	1.67	0.77
2:2Z:370:LYS:HD2	10:5C:433:GLU:HG3	1.66	0.77
14:5N:187:ASP:OD1	14:5N:187:ASP:N	2.17	0.77
24:6X:514:TYR:C	24:6X:517:LEU:CD1	2.54	0.77
2:K1:102:ASN:HB3	2:K1:105:ARG:HB2	1.67	0.76
2:P9:90:GLU:HB3	2:P9:121:ARG:HH12	1.50	0.76
1:W6:215:LEU:HB3	1:W6:217:LEU:HD23	1.67	0.76
2:Y5:255:PHE:HA	2:Y5:259:LEU:HD13	1.67	0.76
1:Z2:125:GLU:OE2	1:Z2:159:TYR:OH	2.03	0.76
1:0I:68:LEU:HB3	1:0I:96:GLY:HA2	1.67	0.76
2:A2:33:ASP:HB3	18:6C:77:THR:HG21	1.65	0.76
2:J3:287:SER:N	2:J3:290:GLU:OE2	2.17	0.76
2:M9:279:GLU:OE2	29:7J:300:THR:CG2	2.30	0.76
2:R9:51:THR:HG21	2:R9:243:ARG:HG2	1.67	0.76
2:Z5:276:ILE:HG23	2:Z5:280:LYS:HB3	1.66	0.76
2:Z9:370:LYS:NZ	2:Z9:371:VAL:O	2.18	0.76
2:2Z:297:GLU:CD	38:8C:74:ILE:H	1.88	0.76
14:5L:110:ASP:OD1	14:5L:154:LYS:CA	2.32	0.76
1:I4:215:LEU:HB3	1:I4:217:LEU:HD23	1.67	0.76
1:J0:43:GLN:NE2	28:7H:413:TYR:OH	2.18	0.76
2:N3:370:LYS:HG3	30:7L:277:ALA:HA	1.68	0.76
1:V0:67:ASP:OD2	1:V0:72:THR:OG1	2.04	0.76
2:Z3:206:ASN:OD1	41:Z3:501:GTP:N2	2.17	0.76
2:Z7:128:ASN:HD21	2:0N:290:GLU:HB3	1.48	0.76
1:1G:113:ILE:HG21	1:1G:150:LEU:HD22	1.67	0.76
2:2J:75:VAL:HG21	2:2J:94:SER:HB2	1.66	0.76
1:Q2:375:GLN:HB2	1:Q2:419:VAL:HG23	1.67	0.76
2:Q5:56:THR:HA	2:S1:285:GLN:HB2	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R4:93:GLY:HA2	13:5I:118:THR:HG23	1.68	0.76
1:X0:40:SER:OG	8:4X:97:PHE:HD2	1.67	0.76
1:3M:52:ASN:H	1:3M:52:ASN:HD22	1.28	0.76
2:3T:288:VAL:HG21	2:3T:327:ASP:HB2	1.65	0.76
24:6Y:597:LEU:HB3	24:6Y:602:LEU:HD21	1.67	0.76
2:8:42:ILE:HD13	24:6W:93:ARG:NH2	1.98	0.76
1:A7:280:GLN:HE22	24:6T:106:VAL:HA	1.47	0.76
2:E7:282:TYR:CD2	22:6L:82:LEU:CD2	2.68	0.76
2:O5:377:MET:SD	2:O5:379:SER:OG	2.42	0.76
1:W4:322:SER:O	1:W4:325:GLU:HG2	1.86	0.76
1:Y0:248:ALA:HA	1:Y0:252:LYS:HD2	1.67	0.76
14:5M:38:ILE:HD11	14:5M:52:LEU:HD12	1.68	0.76
15:5O:6:ARG:HD3	15:5O:27:PHE:CE2	2.19	0.76
22:6L:333:MET:HG2	22:6L:334:THR:HG23	1.65	0.76
26:7E:138:THR:CG2	26:7E:139:PRO:CD	2.61	0.76
1:9:42:LEU:HD21	26:7E:121:LYS:HE3	1.66	0.76
2:E7:282:TYR:HH	22:6L:81:ASN:HA	1.50	0.76
1:E8:276:ARG:NE	24:6X:313:SER:O	2.18	0.76
2:M7:264:ARG:NH1	2:M7:431:ASP:OD2	2.18	0.76
1:O0:245:GLN:HE21	27:7G:68:THR:HG21	1.50	0.76
2:V7:255:PHE:HA	2:V7:259:LEU:HD13	1.66	0.76
2:OJ:9:ILE:HG22	2:OJ:146:GLY:HA2	1.67	0.76
2:1L:85:GLN:O	2:2B:283:HIS:NE2	2.18	0.76
14:5N:38:ILE:HD11	14:5N:52:LEU:HD12	1.67	0.76
24:6Z:122:TYR:HB2	24:6Z:131:HIS:HB3	1.65	0.76
2:4:396:ASP:OD1	4:3Y:53:ASN:ND2	2.15	0.76
1:K6:67:ASP:OD2	1:K6:72:THR:OG1	2.04	0.76
1:L4:37:HIS:CA	29:7J:335:GLU:OE2	2.30	0.76
1:R0:125:GLU:OE2	1:R0:159:TYR:OH	2.03	0.76
1:Z8:117:LEU:HD11	1:Z8:154:LYS:HD3	1.68	0.76
2:0N:56:THR:HA	2:1D:285:GLN:HB2	1.68	0.76
1:0W:51:PHE:O	1:0W:62:ARG:NH2	2.19	0.76
5:4L:286:LEU:O	5:4L:290:GLN:HG3	1.85	0.76
14:5L:38:ILE:HD11	14:5L:52:LEU:HD12	1.68	0.76
15:5P:15:ASP:OD1	15:5P:15:ASP:N	2.18	0.76
29:7I:131:GLY:O	29:7I:170:GLN:NE2	2.17	0.76
36:7W:97:VAL:O	36:7W:101:VAL:HG12	1.86	0.76
1:A5:423:GLN:NE2	3:4J:107:ALA:O	2.18	0.76
1:G0:388:MET:HE3	2:G1:346:TRP:O	1.86	0.76
1:G6:78:SER:OG	24:6Y:499:GLU:CD	2.24	0.76
1:L4:52:ASN:OD1	1:L4:62:ARG:NH2	2.19	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M8:248:ALA:CA	1:M8:252:LYS:HD2	2.12	0.76
1:N0:276:ARG:NH1	1:N0:279:GLN:OE1	2.17	0.76
2:N7:121:ARG:HH21	2:N7:121:ARG:CG	1.94	0.76
2:R9:218:ASP:OD2	2:R9:280:LYS:NZ	2.18	0.76
2:Y9:427:ALA:HA	2:Y9:430:LYS:HD2	1.67	0.76
2:0L:399:TYR:O	2:0L:402:ARG:NH1	2.18	0.76
1:3C:172:SER:OG	1:3C:380:ARG:NH2	2.19	0.76
2:3N:56:THR:OG1	3:4D:34:SER:HA	1.86	0.76
24:6U:41:ARG:HA	24:6U:41:ARG:HE	1.50	0.76
24:6Y:480:ASN:HD21	24:6Y:503:ILE:HD12	1.51	0.76
1:O4:277:GLY:HA2	19:6E:29:GLU:HG2	1.68	0.76
2:P3:279:GLU:OE1	2:P3:279:GLU:N	2.14	0.76
1:S4:74:ASP:OD1	24:6U:33:LEU:CD1	2.34	0.76
1:V6:342:VAL:HG12	1:V6:348:ASN:HD21	1.50	0.76
2:3B:42:ILE:HD11	14:5N:139:ALA:HB1	1.67	0.76
2:3B:85:GLN:O	2:3R:283:HIS:HE1	1.69	0.76
2:3B:90:GLU:HB3	2:3B:121:ARG:HH22	1.49	0.76
14:5L:112:SER:HB2	14:5L:159:SER:HB2	1.67	0.76
24:6W:488:ARG:NH1	24:6W:488:ARG:HB3	2.00	0.76
24:6X:445:ILE:HG13	24:6X:474:PHE:CD1	2.21	0.76
24:7A:96:LEU:HB2	24:7A:123:TYR:HB3	1.66	0.76
1:G6:248:ALA:HA	1:G6:252:LYS:HD3	1.67	0.76
2:H3:88:HIS:CD2	2:H3:121:ARG:HH22	1.96	0.76
1:H6:276:ARG:CZ	24:6V:490:THR:O	2.34	0.76
2:J3:358:GLN:NE2	16:5Q:172:ARG:HG2	2.00	0.76
2:Y9:88:HIS:HB3	2:0F:283:HIS:ND1	2.01	0.76
2:Z7:102:ASN:HD21	2:Z7:411:GLU:HG3	1.51	0.76
2:1Z:88:HIS:HD2	2:2P:283:HIS:HB3	1.49	0.76
7:4R:135:ASP:O	19:6E:191:LYS:NZ	2.18	0.76
2:8:85:GLN:NE2	18:6A:78:LEU:HD13	2.00	0.75
1:E6:58:ARG:HD3	1:G2:280:GLN:HE22	1.50	0.75
2:G3:85:GLN:HE21	2:G3:85:GLN:CA	1.92	0.75
2:I5:88:HIS:HB3	2:K1:283:HIS:ND1	2.01	0.75
1:O4:7:ILE:HB	1:O4:135:VAL:HG12	1.69	0.75
1:U2:211:CYS:HA	1:U2:215:LEU:HB2	1.67	0.75
1:Z0:164:MET:HE3	1:Z0:197:ASP:H	1.51	0.75
2:1R:347:CYS:O	2:1R:347:CYS:SG	2.44	0.75
1:1U:175:VAL:HG12	2:1V:329:ASN:HD21	1.51	0.75
2:2J:90:GLU:OE1	2:2J:90:GLU:HA	1.85	0.75
2:2X:358:GLN:HE22	38:8C:212:PRO:HB2	1.49	0.75
18:6A:101:LYS:O	24:6X:178:ASN:ND2	2.18	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:6H:51:ARG:HE	21:6H:89:ILE:HD13	1.51	0.75
1:3:78:SER:HB2	24:6U:149:LYS:HG3	1.66	0.75
2:4:29:GLY:C	26:7D:45:MET:HE3	2.06	0.75
2:J3:85:GLN:O	2:K9:283:HIS:CE1	2.40	0.75
2:K1:31:GLN:HE21	2:K1:37:PRO:HG3	1.51	0.75
2:N1:265:ILE:HD11	2:N1:435:VAL:HG21	1.67	0.75
2:P9:132:LEU:HD22	2:P9:164:LYS:HD3	1.68	0.75
2:V3:119:LEU:HA	2:V3:122:ILE:HG22	1.68	0.75
1:Y8:122:LYS:HD2	1:0E:292:GLN:HE22	1.49	0.75
1:0G:113:ILE:HD13	1:0G:150:LEU:HD22	1.67	0.75
2:2N:123:ARG:HH22	38:8D:78:ASP:CG	1.88	0.75
2:3P:267:PHE:HB2	2:3P:384:ILE:HD12	1.68	0.75
14:5N:381:PRO:HD2	23:6S:59:GLY:HA3	1.68	0.75
26:7E:146:ASN:O	26:7E:146:ASN:ND2	2.15	0.75
1:F8:279:GLN:NE2	24:6U:411:ASN:HB2	2.00	0.75
2:L3:377:MET:SD	2:L3:379:SER:OG	2.43	0.75
1:0K:388:MET:CE	2:0L:348:PRO:HD3	2.16	0.75
1:0S:209:ASP:HA	1:0S:213:ARG:HH11	1.51	0.75
24:6X:469:PHE:HB3	24:6X:484:GLU:HB3	1.68	0.75
1:M6:46:ARG:NH2	37:7Y:115:CYS:SG	2.58	0.75
1:S6:67:ASP:OD2	1:S6:72:THR:OG1	2.03	0.75
1:T6:92:PHE:CE1	24:7A:35:TYR:HE1	2.04	0.75
1:W8:6:HIS:HE2	1:W8:136:CYS:HG	1.33	0.75
2:0Z:387:ILE:HG12	2:0Z:390:ARG:HH22	1.50	0.75
1:3C:334:GLN:HE22	1:3C:348:ASN:H	1.33	0.75
14:5M:415:LYS:NZ	23:6R:22:MET:HG3	2.00	0.75
37:7Y:221:ARG:HB3	37:7Y:231:HIS:HD2	1.49	0.75
1:B3:39:ASP:OD1	18:5Z:117:LYS:HG2	1.87	0.75
1:G2:259:PRO:HG3	1:G2:311:LEU:HD21	1.67	0.75
2:G3:282:TYR:CD1	22:6M:133:PRO:HG3	2.22	0.75
2:R5:27:GLU:OE1	2:R5:243:ARG:NH1	2.20	0.75
2:U9:100:ALA:HA	1:V0:252:LYS:CG	2.17	0.75
1:V6:52:ASN:OD1	1:V6:62:ARG:NH2	2.18	0.75
2:X9:26:LEU:HD21	2:X9:363:VAL:HG12	1.68	0.75
1:0E:215:LEU:HD22	1:0E:217:LEU:HB2	1.66	0.75
1:2K:215:LEU:HB3	1:2K:217:LEU:HD23	1.67	0.75
1:3M:113:ILE:HA	1:3M:116:VAL:HG12	1.68	0.75
10:5D:130:ASP:HA	10:5D:133:ARG:HD2	1.67	0.75
38:8C:74:ILE:HD12	38:8C:74:ILE:O	1.86	0.75
1:C2:277:GLY:HA2	24:7A:142:ILE:HG22	1.67	0.75
2:G7:132:LEU:HD22	2:G7:164:LYS:HD3	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L7:9:ILE:HG22	2:L7:146:GLY:HA2	1.67	0.75
2:R7:90:GLU:HB3	2:R7:121:ARG:HH12	1.50	0.75
2:T7:88:HIS:NE2	2:T7:89:PRO:HD2	1.99	0.75
2:U5:228:ASN:HD21	41:U6:501:GTP:HN1	1.34	0.75
2:X9:377:MET:SD	2:X9:379:SER:OG	2.43	0.75
1:Y2:260:PHE:HB2	1:Y2:263:LEU:HG	1.69	0.75
2:Y9:56:THR:HA	2:0F:285:GLN:HB2	1.68	0.75
2:0H:239:THR:HG23	2:0H:243:ARG:HE	1.52	0.75
1:2Y:34:GLY:O	1:2Y:58:ARG:HA	1.86	0.75
2:3R:279:GLU:OE2	2:3R:279:GLU:N	2.18	0.75
15:5O:16:PRO:O	27:7G:87:LYS:HE2	1.87	0.75
24:6X:514:TYR:HA	24:6X:517:LEU:HD13	1.69	0.75
31:7N:17:GLY:HA2	31:7N:20:ILE:HG22	1.66	0.75
1:Q0:52:ASN:OD1	1:Q0:62:ARG:NH2	2.20	0.75
2:R9:176:GLN:HE22	2:R9:304:LYS:HE2	1.50	0.75
1:S4:213:ARG:HE	1:S4:297:LYS:HD2	1.52	0.75
1:X4:333:VAL:HA	1:X4:336:LYS:HD3	1.69	0.75
1:3Q:113:ILE:HA	1:3Q:116:VAL:HG12	1.68	0.75
8:4W:460:ALA:HB2	8:4X:128:LEU:HD22	1.68	0.75
22:6O:54:ARG:HG3	24:6Z:285:MET:HG2	1.66	0.75
29:7J:390:LEU:HG	29:7J:391:PRO:HD3	1.67	0.75
2:G5:276:ILE:HD11	2:G5:281:ALA:HA	1.68	0.75
1:Q8:227:HIS:NE2	24:6T:10:LYS:O	2.20	0.75
2:W9:14:ILE:HG13	2:W9:74:VAL:HG21	1.67	0.75
2:0R:399:TYR:O	2:0R:402:ARG:NH1	2.20	0.75
2:1N:399:TYR:O	2:1N:402:ARG:NH1	2.20	0.75
1:3K:77:ARG:NH2	3:4B:19:LEU:HD23	2.00	0.75
31:7M:64:HIS:O	31:7M:76:THR:HG23	1.87	0.75
1:E0:219:THR:N	24:6T:312:ASN:OD1	2.14	0.75
2:H7:88:HIS:HB2	2:J3:283:HIS:ND1	2.02	0.75
1:Y4:50:TYR:CE2	1:Y4:241:ARG:HD3	2.21	0.75
2:Z1:352:LYS:NZ	2:Z1:353:CYS:O	2.20	0.75
2:0B:9:ILE:HG22	2:0B:68:LEU:HD21	1.67	0.75
1:0K:179:VAL:HG22	2:0L:258:ASN:HD22	1.50	0.75
1:0Y:55:THR:HG21	1:1O:284:LEU:HD23	1.69	0.75
1:1E:379:LYS:HG2	1:1E:419:VAL:HG11	1.69	0.75
2:1R:313:MET:HE3	2:1R:346:TRP:CH2	2.16	0.75
1:2Q:306:ARG:NH1	38:8A:96:GLY:H	1.68	0.75
22:6M:134:ASN:O	22:6M:208:ARG:NH1	2.20	0.75
1:1:379:LYS:NZ	3:3V:49:HIS:CD2	2.54	0.74
1:U6:248:ALA:HA	1:U6:252:LYS:HD2	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W3:88:HIS:CE1	2:W3:90:GLU:HB3	2.21	0.74
1:Y6:58:ARG:HH21	1:Y6:58:ARG:CG	2.00	0.74
2:0N:399:TYR:O	2:0N:402:ARG:NH1	2.20	0.74
1:1W:211:CYS:HA	1:1W:215:LEU:HB2	1.67	0.74
2:3D:214:ARG:NH2	38:8D:66:TYR:HA	2.02	0.74
26:7F:58:ILE:H	26:7F:58:ILE:CD1	1.99	0.74
38:8A:82:ASP:CB	38:8A:112:ILE:HD13	2.16	0.74
2:A2:423:GLU:OE2	4:4G:108:TYR:OH	1.60	0.74
1:G8:80:PRO:HB3	24:6Z:526:PHE:HE2	1.51	0.74
2:O7:313:MET:HE1	2:O7:346:TRP:CH2	2.22	0.74
1:P4:175:VAL:HG12	2:P5:329:ASN:HD21	1.51	0.74
2:1F:11:GLN:HE22	1:1G:247:ASN:H	1.34	0.74
2:1L:399:TYR:O	2:1L:402:ARG:NH1	2.19	0.74
1:2Q:334:GLN:HE22	1:2Q:348:ASN:H	1.33	0.74
8:4W:463:THR:HG21	8:4X:128:LEU:HD13	1.68	0.74
15:5P:332:PRO:HG3	15:5P:350:ASP:O	1.87	0.74
26:7D:58:ILE:HD11	26:7D:82:PRO:CB	2.16	0.74
29:7J:344:GLU:CD	29:7J:345:PRO:HD2	2.06	0.74
2:H5:88:HIS:HB3	2:J1:283:HIS:ND1	2.02	0.74
1:K8:175:VAL:HG22	2:K9:329:ASN:HD21	1.53	0.74
2:Q5:75:VAL:HG21	2:Q5:94:SER:HB2	1.67	0.74
1:V0:345:ILE:O	1:V0:348:ASN:ND2	2.21	0.74
2:Y3:282:TYR:HE2	8:4W:373:ASN:HB3	1.50	0.74
1:0Q:8:GLN:HE21	1:0Q:14:ASN:HA	1.51	0.74
2:2X:286:LEU:O	2:2X:373:ARG:NH1	2.20	0.74
1:3K:113:ILE:HA	1:3K:116:VAL:HG12	1.67	0.74
2:3R:287:SER:N	2:3R:290:GLU:OE2	2.16	0.74
3:4D:7:GLY:HA2	3:4D:140:LYS:HG2	1.67	0.74
15:5P:185:ARG:NH1	15:5P:197:GLY:O	2.21	0.74
38:7Z:8:GLU:O	38:7Z:12:LEU:HB2	1.87	0.74
1:A3:219:THR:HB	26:7F:142:PHE:CZ	2.22	0.74
1:F0:11:GLN:NE2	39:F0:502:GDP:O1A	2.19	0.74
2:K7:88:HIS:ND1	2:K7:89:PRO:CD	2.49	0.74
2:K9:90:GLU:HB3	2:K9:121:ARG:HH22	1.52	0.74
2:L9:90:GLU:N	1:N6:281:TYR:OH	2.19	0.74
2:Q1:308:ARG:NH1	2:U9:282:TYR:OH	2.21	0.74
2:U5:213:CYS:HA	2:U5:217:LEU:HB2	1.69	0.74
1:V2:218:THR:O	2:V3:326:LYS:NZ	2.20	0.74
1:V4:211:CYS:HA	1:V4:215:LEU:HB2	1.69	0.74
1:V6:235:GLY:HA2	1:V6:318:ARG:HH11	1.52	0.74
2:X9:287:SER:N	2:X9:290:GLU:OE2	2.19	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0U:68:LEU:HD23	1:0U:93:GLY:HA3	1.69	0.74
2:1T:27:GLU:OE1	2:1T:243:ARG:NH1	2.21	0.74
1:3O:77:ARG:NH2	3:4F:19:LEU:HD23	2.00	0.74
2:3T:241:SER:HA	2:3T:356:ASN:HD21	1.51	0.74
14:5M:381:PRO:HD2	23:6R:59:GLY:HA3	1.68	0.74
1:I4:211:CYS:HA	1:I4:215:LEU:HB2	1.67	0.74
1:N2:320:ARG:HH12	29:7J:110:THR:HA	1.52	0.74
1:W6:190:HIS:CD2	1:W6:411:ALA:HA	2.22	0.74
1:W8:207:LEU:HB3	1:W8:225:LEU:HD22	1.70	0.74
2:2H:90:GLU:HB3	2:2H:121:ARG:NH2	2.01	0.74
1:3K:213:ARG:HD3	1:3K:297:LYS:HE3	1.68	0.74
2:3L:392:ASP:OD2	2:3L:422:ARG:NH1	2.19	0.74
3:4H:7:GLY:HA2	3:4H:140:LYS:HG2	1.67	0.74
8:4W:466:ARG:HD3	8:4W:466:ARG:O	1.86	0.74
1:5:40:SER:C	26:7D:25:TYR:CE2	2.59	0.74
1:J8:40:SER:HA	29:7J:388:MET:CG	2.09	0.74
1:L4:320:ARG:HH22	29:7J:350:LYS:HA	1.53	0.74
1:S8:94:GLN:OE1	24:6W:42:GLU:OE1	2.05	0.74
2:V3:239:THR:HG23	2:V3:243:ARG:HE	1.52	0.74
2:Y9:72:PRO:HD2	1:Z0:2:ARG:HH12	1.51	0.74
3:3V:7:GLY:HA2	3:3V:140:LYS:HG2	1.67	0.74
3:3X:7:GLY:HA2	3:3X:140:LYS:HG2	1.67	0.74
3:3Z:7:GLY:HA2	3:3Z:140:LYS:HG2	1.67	0.74
3:4B:7:GLY:HA2	3:4B:140:LYS:HG2	1.67	0.74
15:5P:12:GLU:CB	15:5P:21:LEU:HD21	2.18	0.74
17:5V:185:LEU:HB3	17:5V:226:ILE:HD11	1.68	0.74
22:6M:130:LEU:HD23	22:6M:209:ASN:HD21	1.52	0.74
22:6N:54:ARG:HG3	24:6Y:285:MET:HG2	1.66	0.74
27:7G:67:THR:HG23	27:7G:70:GLN:H	1.52	0.74
1:0K:388:MET:SD	2:0L:348:PRO:HD3	2.27	0.74
1:1G:388:MET:HE2	1:1G:388:MET:CA	2.17	0.74
3:4F:7:GLY:HA2	3:4F:140:LYS:HG2	1.67	0.74
26:7E:58:ILE:HD12	26:7E:58:ILE:N	2.01	0.74
2:D7:280:LYS:CE	18:6D:166:HIS:HB3	2.18	0.74
1:I0:218:THR:CG2	24:6X:489:ASN:N	2.50	0.74
1:O4:280:GLN:OE1	19:6E:75:GLN:HG3	1.87	0.74
2:R9:263:PRO:O	17:5U:84:ARG:NH1	2.20	0.74
2:S1:53:PHE:HB3	2:S1:61:HIS:HB3	1.69	0.74
2:W1:237:SER:HB2	2:W1:318:MET:HE1	1.70	0.74
1:3G:95:THR:HG21	3:3X:138:GLY:HA2	1.70	0.74
14:5L:121:LEU:HD22	14:5L:153:VAL:HG13	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:5M:121:LEU:HD22	14:5M:153:VAL:HG13	1.69	0.74
14:5N:121:LEU:HD22	14:5N:153:VAL:HG13	1.69	0.74
2:A2:423:GLU:OE2	4:4G:108:TYR:CZ	2.07	0.74
2:E1:33:ASP:HB3	22:6J:130:LEU:HD12	1.69	0.74
2:M1:365:GLY:O	30:7K:260:ARG:NH1	2.20	0.74
2:N1:287:SER:N	2:N1:290:GLU:OE2	2.20	0.74
2:N3:384:ILE:HA	2:N3:387:ILE:HD12	1.69	0.74
2:V3:100:ALA:HA	1:V4:252:LYS:HG2	1.68	0.74
2:W7:88:HIS:HD2	2:W7:90:GLU:H	1.34	0.74
1:Z0:3:GLU:HB2	1:Z0:130:LEU:HA	1.68	0.74
1:Z6:379:LYS:HD3	1:Z6:419:VAL:HG21	1.68	0.74
2:0N:324:VAL:HG12	2:0N:326:LYS:H	1.52	0.74
1:2U:113:ILE:HD13	1:2U:150:LEU:HD22	1.67	0.74
1:3O:5:VAL:HG12	1:3O:62:ARG:HD3	1.68	0.74
7:4S:11:GLU:OE2	7:4S:11:GLU:N	2.21	0.74
15:5P:52:TYR:CE2	15:5P:54:GLU:HB3	2.23	0.74
2:I5:172:TYR:CZ	2:I5:203:MET:HG2	2.23	0.74
2:K9:85:GLN:CD	30:7K:134:HIS:HD1	1.90	0.74
1:S6:248:ALA:HA	1:S6:252:LYS:CD	2.18	0.74
2:T7:279:GLU:OE1	2:T7:279:GLU:HA	1.88	0.74
1:U6:137:HIS:HE2	1:U6:168:SER:HG	1.34	0.74
1:U8:249:ASP:H	1:U8:252:LYS:HD2	1.53	0.74
1:V0:211:CYS:HA	1:V0:215:LEU:HB2	1.70	0.74
1:Z8:68:LEU:HB3	1:Z8:96:GLY:HA2	1.70	0.74
2:0P:220:GLU:HG3	2:0P:221:ARG:HG3	1.69	0.74
1:1A:334:GLN:HE22	1:1A:348:ASN:H	1.35	0.74
1:2A:215:LEU:HB3	1:2A:217:LEU:HD23	1.68	0.74
22:6N:108:ARG:NH2	24:6Y:284:THR:O	2.21	0.74
24:6X:517:LEU:HD12	24:6X:517:LEU:N	2.02	0.74
1:G4:139:LEU:HD12	1:G4:170:VAL:HG22	1.70	0.73
2:U3:228:ASN:HD21	41:U4:501:GTP:HN1	1.34	0.73
2:X9:88:HIS:HB3	2:Z5:283:HIS:ND1	2.03	0.73
2:Y3:56:THR:HG22	2:Z9:285:GLN:HB2	1.70	0.73
1:2U:126:SER:O	38:8B:178:ARG:NH2	2.19	0.73
2:3T:223:THR:HG23	2:3T:225:THR:H	1.52	0.73
4:3Y:74:PRO:HD2	4:3Y:169:ASP:HA	1.69	0.73
24:6V:456:ASP:O	24:6V:459:LYS:NZ	2.20	0.73
37:7Y:177:ARG:HB2	37:7Y:177:ARG:HH11	1.53	0.73
38:8B:85:ARG:HH11	38:8B:87:LYS:HD3	0.93	0.73
1:L6:67:ASP:OD2	1:L6:72:THR:OG1	2.05	0.73
1:M6:1:MET:CE	37:7Y:116:MET:HB2	2.16	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W1:89:PRO:HB2	2:X7:280:LYS:HZ1	1.53	0.73
2:X5:297:GLU:HA	2:X5:297:GLU:OE2	1.88	0.73
2:0B:177:VAL:HA	1:0C:331:LEU:HD11	1.70	0.73
1:0G:8:GLN:HE21	1:0G:14:ASN:HA	1.53	0.73
1:0G:139:LEU:HD12	1:0G:170:VAL:HG12	1.69	0.73
1:0Y:180:VAL:HG23	1:0Y:184:ASN:HD21	1.53	0.73
2:2H:113:GLU:HG2	38:8B:7:ASP:HA	1.68	0.73
1:2Q:320:ARG:NH1	38:8A:198:THR:HA	2.02	0.73
1:2U:41:ASP:OD1	38:8B:183:LYS:NZ	2.21	0.73
4:4C:74:PRO:HD2	4:4C:169:ASP:HA	1.69	0.73
4:4G:74:PRO:HD2	4:4G:169:ASP:HA	1.69	0.73
24:6X:569:LYS:HB3	24:6X:572:ALA:HB3	1.69	0.73
38:8A:86:TYR:HE2	38:8A:104:LYS:HG2	1.53	0.73
38:8C:35:GLU:OE1	38:8C:39:LYS:HE3	1.87	0.73
2:L3:66:ILE:HD12	2:L3:121:ARG:HG2	1.69	0.73
1:N8:390:ARG:HB3	2:N9:346:TRP:HZ3	1.53	0.73
1:V4:345:ILE:O	1:V4:348:ASN:ND2	2.20	0.73
1:X2:50:TYR:HH	1:X2:237:THR:HG1	1.26	0.73
1:Z4:139:LEU:HD12	1:Z4:170:VAL:HG12	1.69	0.73
1:1U:345:ILE:O	1:1U:348:ASN:ND2	2.21	0.73
2:2L:246:GLY:H	2:2L:249:ASN:HD21	1.35	0.73
9:4Z:35:ARG:NH1	14:5L:583:ASP:OD1	2.22	0.73
15:5O:34:GLU:HG3	15:5O:49:ARG:CD	2.18	0.73
24:6T:613:LYS:O	24:6T:617:ASP:HB2	1.88	0.73
1:A3:383:GLU:OE2	3:4H:50:LYS:NZ	2.22	0.73
2:E7:282:TYR:CE2	22:6L:82:LEU:HD22	2.09	0.73
1:H6:272:PRO:HB2	1:H6:282:ARG:HH12	1.53	0.73
2:I5:105:ARG:HH12	2:I5:407:TRP:HZ3	1.35	0.73
2:J1:346:TRP:CH2	2:J1:435:VAL:HG23	2.23	0.73
1:J2:178:THR:HB	1:J2:181:GLU:HG3	1.69	0.73
2:X5:52:PHE:HZ	2:X5:239:THR:HG21	1.53	0.73
38:8A:83:ARG:HG3	38:8A:85:ARG:HG2	1.70	0.73
2:H3:278:ALA:HA	2:H3:369:ALA:HB2	1.68	0.73
1:Y6:273:LEU:H	1:Y6:292:GLN:HE22	1.34	0.73
2:Z9:100:ALA:HA	1:0A:252:LYS:HE2	1.71	0.73
2:0F:206:ASN:OD1	41:0F:501:GTP:N2	2.22	0.73
1:1G:311:LEU:HD23	1:1G:312:THR:HG23	1.71	0.73
4:4I:74:PRO:HD2	4:4I:169:ASP:HA	1.69	0.73
15:5O:56:LYS:H	15:5O:56:LYS:CE	2.01	0.73
15:5O:200:LYS:HD3	15:5O:200:LYS:C	2.08	0.73
15:5P:12:GLU:HB2	15:5P:21:LEU:CD2	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E6:52:ASN:HA	22:6L:181:ASN:HD22	0.64	0.73
2:M3:221:ARG:HH22	30:7K:189:PHE:H	1.36	0.73
2:R3:336:LYS:O	2:R3:339:ARG:NH2	2.22	0.73
2:U7:100:ALA:HA	1:U8:252:LYS:HG2	1.71	0.73
1:Y8:273:LEU:H	1:Y8:292:GLN:HE22	1.36	0.73
2:Z1:108:TYR:O	2:Z1:112:LYS:NZ	2.19	0.73
2:Z7:91:GLN:HE22	2:0N:283:HIS:HE1	1.37	0.73
2:0F:286:LEU:HD11	2:0F:372:GLN:HB2	1.70	0.73
1:0U:139:LEU:HD12	1:0U:170:VAL:HG22	1.71	0.73
1:1E:51:PHE:O	1:1E:62:ARG:NH2	2.22	0.73
2:1F:9:ILE:HG22	2:1F:68:LEU:HD11	1.69	0.73
2:1X:414:GLU:HG2	2:1X:416:GLY:H	1.52	0.73
4:4A:74:PRO:HD2	4:4A:169:ASP:HA	1.69	0.73
24:6T:488:ARG:HD2	24:6T:488:ARG:N	2.03	0.73
26:7F:113:ARG:HB2	26:7F:116:GLN:HG3	1.71	0.73
1:E2:77:ARG:NH2	24:6U:426:LEU:HB2	2.03	0.73
2:G3:42:ILE:CG1	24:6W:470:ILE:HD11	2.16	0.73
2:G3:206:ASN:OD1	41:G4:501:GTP:N2	2.21	0.73
1:H4:218:THR:HG21	24:6U:488:ARG:HA	1.71	0.73
1:I0:45:GLU:HG3	1:I0:46:ARG:HG2	1.70	0.73
1:I8:375:GLN:HB2	1:I8:419:VAL:HG23	1.71	0.73
2:J7:281:ALA:HA	2:J7:284:GLU:HG3	1.71	0.73
1:X6:279:GLN:HE22	8:4W:184:VAL:HG22	1.53	0.73
1:1K:68:LEU:HB3	1:1K:96:GLY:HA2	1.71	0.73
2:1R:35:GLN:HB3	2:1R:59:GLY:O	1.89	0.73
1:1S:375:GLN:HB2	1:1S:419:VAL:HG13	1.71	0.73
1:3S:285:THR:HG23	1:3S:288:GLU:H	1.54	0.73
4:3W:74:PRO:HD2	4:3W:169:ASP:HA	1.69	0.73
18:5X:136:VAL:HG23	18:5X:198:LEU:HB3	1.70	0.73
18:5Z:136:VAL:HG23	18:5Z:198:LEU:HB3	1.70	0.73
2:I5:324:VAL:HG21	2:I5:326:LYS:HZ3	1.54	0.73
2:J5:282:TYR:OH	5:4M:156:ASN:OD1	2.05	0.73
2:V1:195:LEU:HD21	2:V1:264:ARG:HD2	1.71	0.73
2:Z5:206:ASN:OD1	41:Z6:501:GTP:N2	2.20	0.73
2:Z7:34:GLY:HA3	2:Z7:60:LYS:HZ2	1.54	0.73
2:0B:370:LYS:NZ	2:0B:371:VAL:O	2.22	0.73
2:0N:108:TYR:O	2:0N:112:LYS:NZ	2.21	0.73
2:0P:88:HIS:HB3	2:1F:283:HIS:ND1	2.04	0.73
1:3K:272:PRO:HB2	1:3K:282:ARG:HH12	1.53	0.73
1:3O:51:PHE:HB3	1:3O:59:TYR:HB3	1.69	0.73
4:4E:74:PRO:HD2	4:4E:169:ASP:HA	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:4R:284:GLU:OE2	33:7Q:184:THR:HA	1.89	0.73
18:5Y:136:VAL:HG23	18:5Y:198:LEU:HB3	1.70	0.73
2:6:396:ASP:OD1	4:4A:53:ASN:ND2	2.21	0.73
1:I2:211:CYS:HA	1:I2:215:LEU:HB2	1.71	0.73
1:K8:52:ASN:OD1	1:K8:62:ARG:NH2	2.21	0.73
2:M5:121:ARG:HB2	2:M5:121:ARG:NH1	2.03	0.73
2:P3:274:PRO:CG	2:P3:286:LEU:HD21	2.13	0.73
2:0P:278:ALA:HA	2:0P:369:ALA:HB2	1.70	0.73
2:1H:90:GLU:HG2	2:1H:121:ARG:HH22	1.54	0.73
1:2A:125:GLU:OE2	1:2A:159:TYR:OH	2.05	0.73
2:2D:133:GLN:HB3	2:2D:252:ILE:HG21	1.70	0.73
14:5M:378:ILE:HG22	23:6R:55:VAL:HB	1.71	0.73
24:6T:97:ARG:H	24:6T:188:THR:HG21	1.53	0.73
2:A2:357:TYR:HB3	24:6Y:150:ARG:HH12	1.53	0.73
1:G8:33:THR:O	1:G8:58:ARG:NH2	2.22	0.73
2:H7:317:LEU:HB3	2:H7:319:TYR:HE1	1.53	0.73
2:J5:413:MET:HB3	2:J5:417:GLU:OE2	1.88	0.73
2:J7:282:TYR:CE1	5:4M:210:ASP:OD1	2.40	0.73
2:P7:308:ARG:NH1	2:U5:282:TYR:OH	2.21	0.73
1:S2:190:HIS:HD2	1:S2:414:ASN:HD22	1.36	0.73
2:Y9:114:ILE:HG21	2:Y9:149:LEU:HD22	1.70	0.73
2:Z1:206:ASN:OD1	41:Z2:501:GTP:N2	2.22	0.73
1:0Q:45:GLU:HG3	1:0Q:46:ARG:HG2	1.71	0.73
1:0Y:345:ILE:O	1:0Y:348:ASN:ND2	2.20	0.73
1:1G:388:MET:HA	1:1G:388:MET:CE	2.19	0.73
5:4L:284:LEU:HA	5:4L:287:LYS:HG3	1.69	0.73
10:5B:287:VAL:HA	10:5B:290:LYS:HD2	1.71	0.73
13:5I:136:PHE:HD2	19:6E:259:SER:HB2	1.53	0.73
18:6A:136:VAL:HG23	18:6A:198:LEU:HB3	1.70	0.73
18:6B:136:VAL:HG23	18:6B:198:LEU:HB3	1.70	0.73
18:6D:136:VAL:HG23	18:6D:198:LEU:HB3	1.70	0.73
1:5:40:SER:C	26:7D:25:TYR:HE2	1.93	0.72
2:Y3:282:TYR:CE2	8:4W:373:ASN:ND2	2.54	0.72
2:0F:83:TYR:HB3	2:0F:86:LEU:HB3	1.72	0.72
2:0H:83:TYR:HB3	2:0H:86:LEU:HB3	1.70	0.72
1:0O:215:LEU:HD21	1:0O:273:LEU:HD12	1.71	0.72
2:1B:290:GLU:HA	2:1B:293:ASN:HD22	1.54	0.72
2:2L:276:ILE:HG21	2:2L:281:ALA:HB2	1.70	0.72
2:3D:122:ILE:HD11	2:3D:157:LEU:HD21	1.71	0.72
18:6C:136:VAL:HG23	18:6C:198:LEU:HB3	1.70	0.72
25:7C:73:VAL:HG22	25:7C:77:LYS:HE3	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:7D:58:ILE:HD11	26:7D:82:PRO:HB3	1.71	0.72
2:I1:264:ARG:NH1	2:I1:431:ASP:OD2	2.20	0.72
2:N5:88:HIS:HE1	2:N5:90:GLU:CB	2.02	0.72
1:O0:268:VAL:HG23	1:O0:300:MET:HB2	1.70	0.72
2:Q5:392:ASP:OD2	2:Q5:422:ARG:NH1	2.22	0.72
1:R0:345:ILE:O	1:R0:348:ASN:ND2	2.20	0.72
1:R4:200:MET:HE3	1:R4:268:VAL:HG21	1.72	0.72
1:U4:172:SER:OG	1:U4:380:ARG:NH2	2.22	0.72
2:W9:81:GLY:O	2:W9:84:ARG:HG3	1.89	0.72
1:0E:258:ILE:HD11	1:0E:261:PRO:HA	1.70	0.72
2:0J:297:GLU:HG3	2:0J:299:ALA:H	1.54	0.72
2:3F:344:VAL:HG12	2:3F:346:TRP:H	1.53	0.72
2:3T:428:LEU:HG	2:3T:432:PHE:HE2	1.54	0.72
8:4W:468:MET:HE1	8:4W:470:TYR:CZ	2.24	0.72
15:5O:333:GLU:HB3	30:7K:241:LYS:NZ	2.04	0.72
2:4:77:GLU:HG2	26:7D:115:GLU:HG2	1.71	0.72
2:8:396:ASP:OD1	4:4C:53:ASN:ND2	2.19	0.72
2:G1:101:ASN:OD1	1:G2:252:LYS:HE3	1.88	0.72
2:J5:91:GLN:HE21	2:J5:121:ARG:HH22	1.38	0.72
2:N9:33:ASP:O	2:N9:60:LYS:NZ	2.21	0.72
2:S7:223:THR:HG23	2:S7:225:THR:H	1.54	0.72
1:V0:311:LEU:HD23	1:V0:342:VAL:HG21	1.70	0.72
2:V1:88:HIS:CE1	2:V1:90:GLU:HB3	2.24	0.72
1:0O:3:GLU:HB2	1:0O:130:LEU:HA	1.71	0.72
1:1E:207:LEU:HD11	1:1E:229:ILE:HD11	1.71	0.72
1:1M:345:ILE:O	1:1M:348:ASN:ND2	2.21	0.72
2:1N:280:LYS:HA	2:1N:283:HIS:CD2	2.24	0.72
1:3I:34:GLY:O	1:3I:58:ARG:HA	1.89	0.72
1:3Q:248:ALA:CA	1:3Q:252:LYS:HD2	2.14	0.72
24:6U:122:TYR:HB2	24:6U:131:HIS:HB3	1.71	0.72
1:1:306:ARG:HD3	3:3V:59:LEU:HD13	1.68	0.72
1:G2:139:LEU:HD12	1:G2:170:VAL:HG22	1.71	0.72
1:G4:2:ARG:HB3	1:G4:131:GLN:HB2	1.70	0.72
2:G9:279:GLU:OE1	2:G9:279:GLU:N	2.20	0.72
2:J5:372:GLN:HE22	5:4M:148:LEU:HA	1.54	0.72
2:Q9:336:LYS:O	2:Q9:339:ARG:NH2	2.22	0.72
1:X8:113:ILE:HA	1:X8:116:VAL:HG12	1.70	0.72
2:Z3:181:VAL:HG22	1:Z4:256:ASN:HD22	1.54	0.72
2:1D:399:TYR:O	2:1D:402:ARG:NH1	2.23	0.72
2:1Z:377:MET:SD	2:1Z:379:SER:OG	2.44	0.72
16:5Q:45:GLY:HA2	16:5Q:58:ALA:HA	1.69	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:6V:483:PHE:HB2	24:6V:496:LYS:HA	1.71	0.72
38:8B:12:LEU:HB3	38:8B:18:VAL:HG21	1.72	0.72
38:8D:73:TRP:HD1	38:8D:75:SER:HB2	1.55	0.72
1:J2:71:GLY:HA2	16:5Q:175:LEU:HD21	1.71	0.72
1:J4:45:GLU:HG3	1:J4:46:ARG:HG2	1.72	0.72
2:J9:287:SER:N	2:J9:290:GLU:OE2	2.20	0.72
1:N2:252:LYS:HA	1:N2:255:VAL:CG1	2.19	0.72
1:O4:248:ALA:HA	1:O4:252:LYS:HD2	1.71	0.72
2:O7:85:GLN:O	2:Q5:283:HIS:NE2	2.21	0.72
1:Q2:311:LEU:HD23	1:Q2:312:THR:HG23	1.71	0.72
1:V0:5:VAL:HG23	1:V0:62:ARG:HG2	1.71	0.72
2:W9:255:PHE:HA	2:W9:259:LEU:HD13	1.70	0.72
2:Z7:324:VAL:HG22	2:Z7:326:LYS:H	1.55	0.72
1:1G:52:ASN:OD1	1:1G:62:ARG:NH2	2.20	0.72
1:2Y:54:ALA:HB3	1:2Y:58:ARG:HB3	1.70	0.72
18:5X:75:ASP:OD2	18:5X:76:ALA:N	2.22	0.72
18:5Z:75:ASP:OD2	18:5Z:76:ALA:N	2.22	0.72
18:6A:75:ASP:OD2	18:6A:76:ALA:N	2.22	0.72
18:6B:75:ASP:OD2	18:6B:76:ALA:N	2.22	0.72
18:6C:75:ASP:OD2	18:6C:76:ALA:N	2.22	0.72
18:6D:75:ASP:OD2	18:6D:76:ALA:N	2.22	0.72
24:6V:597:LEU:HB3	24:6V:602:LEU:HD21	1.69	0.72
1:H2:200:MET:HE3	1:H2:268:VAL:HG21	1.69	0.72
2:I1:90:GLU:OE2	2:I1:90:GLU:HA	1.89	0.72
1:L6:339:SER:H	34:7S:140:ASN:HD21	1.35	0.72
2:O3:313:MET:CG	2:O3:346:TRP:CZ3	2.72	0.72
2:S9:88:HIS:HD2	2:S9:90:GLU:H	1.35	0.72
1:Y8:202:LEU:CD2	1:Y8:229:ILE:HD13	2.18	0.72
2:Z5:15:GLN:HB3	2:Z5:228:ASN:HD21	1.53	0.72
2:0B:53:PHE:HB3	2:0B:61:HIS:HB3	1.72	0.72
2:0X:199:ASP:HB3	2:0X:256:GLN:HE22	1.52	0.72
2:1B:26:LEU:HD23	2:1B:363:VAL:HG12	1.70	0.72
5:4L:312:GLU:HA	5:4L:315:ARG:HE	1.53	0.72
14:5L:356:PHE:HB2	14:5L:367:TRP:HB2	1.70	0.72
14:5M:415:LYS:HE2	23:6R:22:MET:CG	2.19	0.72
18:5Y:75:ASP:OD2	18:5Y:76:ALA:N	2.22	0.72
2:H3:90:GLU:HB3	2:H3:121:ARG:NH1	2.05	0.72
1:H4:345:ILE:O	1:H4:348:ASN:ND2	2.19	0.72
1:M8:175:VAL:HG22	1:M8:205:GLU:HG2	1.71	0.72
2:W5:287:SER:N	2:W5:290:GLU:OE2	2.23	0.72
1:Y4:263:LEU:HG	1:Y4:422:TYR:HE1	1.53	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0C:135:VAL:HG11	1:0C:152:ILE:HD11	1.72	0.72
2:0J:206:ASN:OD1	41:0K:501:GTP:N2	2.23	0.72
2:0X:88:HIS:CG	2:1N:283:HIS:HB2	2.25	0.72
2:1B:399:TYR:O	2:1B:402:ARG:NH1	2.23	0.72
2:1N:213:CYS:HA	2:1N:217:LEU:HB2	1.72	0.72
1:3G:113:ILE:HA	1:3G:116:VAL:HG12	1.69	0.72
2:3H:164:LYS:NZ	3:3X:136:HIS:O	2.21	0.72
2:3R:222:PRO:HD2	1:3S:324:LYS:HE3	1.72	0.72
15:5O:62:LEU:HD21	15:5O:77:GLU:CA	2.16	0.72
15:5P:140:HIS:HB2	15:5P:146:VAL:HG11	1.71	0.72
16:5Q:173:ARG:HG2	16:5Q:173:ARG:NH1	1.99	0.72
24:6T:488:ARG:HD2	24:6T:488:ARG:H	1.53	0.72
2:C1:278:ALA:HB3	18:6D:43:ASN:HD22	1.53	0.72
2:M1:176:GLN:HE22	2:M1:304:LYS:HE2	1.54	0.72
2:N5:154:LEU:HA	2:N5:157:LEU:HD12	1.71	0.72
1:O0:2:ARG:HE	1:O0:240:LEU:HD22	1.54	0.72
2:P5:308:ARG:NH1	2:U3:282:TYR:OH	2.21	0.72
1:R2:334:GLN:HE22	1:R2:348:ASN:H	1.37	0.72
1:T2:52:ASN:OD1	1:T2:62:ARG:NH2	2.22	0.72
1:V0:392:LYS:HD2	1:V0:395:LEU:HD22	1.71	0.72
1:V2:345:ILE:O	1:V2:348:ASN:ND2	2.17	0.72
1:X0:42:LEU:HB2	8:4X:97:PHE:CE1	2.25	0.72
2:X9:279:GLU:H	2:X9:279:GLU:CD	1.93	0.72
1:Y4:207:LEU:HB3	1:Y4:225:LEU:HD22	1.72	0.72
2:Z3:114:ILE:HG21	2:Z3:149:LEU:HD22	1.72	0.72
2:0P:387:ILE:HG12	2:0P:390:ARG:HH22	1.52	0.72
2:1H:56:THR:HA	2:1X:285:GLN:HB2	1.71	0.72
2:1P:88:HIS:HB3	2:2F:283:HIS:ND1	2.04	0.72
2:1T:399:TYR:O	2:1T:402:ARG:NH1	2.23	0.72
2:2H:88:HIS:CE1	2:2H:121:ARG:HH22	2.07	0.72
2:2N:88:HIS:HB3	2:3D:283:HIS:ND1	2.05	0.72
1:3K:5:VAL:HG23	1:3K:62:ARG:HG2	1.71	0.72
1:3K:77:ARG:HH22	3:4B:18:LYS:HB3	1.53	0.72
2:3T:425:LEU:O	2:3T:425:LEU:HD23	1.90	0.72
24:6U:566:VAL:HG23	24:6U:573:VAL:HG21	1.70	0.72
24:6W:41:ARG:HA	24:6W:41:ARG:NE	2.02	0.72
2:A0:145:THR:OG1	41:A1:501:GTP:O1B	2.07	0.72
2:K1:33:ASP:O	2:K1:60:LYS:NZ	2.23	0.72
2:M3:36:MET:HG2	2:M3:42:ILE:HG13	1.70	0.72
2:M5:88:HIS:HD2	2:M5:89:PRO:HD2	1.52	0.72
2:O1:286:LEU:HD13	2:O1:371:VAL:HG23	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T0:218:THR:HG23	1:T0:219:THR:HG23	1.72	0.72
1:V2:165:LEU:HD21	1:V2:250:LEU:HD11	1.71	0.72
2:W9:145:THR:OG1	41:X0:501:GTP:O1B	2.08	0.72
1:Z8:208:TYR:HE1	1:Z8:225:LEU:HD11	1.55	0.72
1:0M:68:LEU:HB3	1:0M:96:GLY:HA2	1.71	0.72
2:0V:202:VAL:HG12	2:0V:268:MET:HB2	1.71	0.72
2:1R:288:VAL:HG11	2:1R:328:VAL:HG12	1.71	0.72
2:3P:286:LEU:HD13	2:3P:371:VAL:HG23	1.70	0.72
10:5A:443:GLU:OE2	10:5A:447:ARG:NH1	2.23	0.72
14:5M:356:PHE:HB2	14:5M:367:TRP:HB2	1.71	0.72
15:5O:34:GLU:HG3	15:5O:49:ARG:HH21	1.53	0.72
15:5P:329:PRO:CG	15:5P:335:GLY:HA3	2.14	0.72
19:6E:92:ARG:CD	19:6E:99:ARG:HE	2.02	0.72
24:6W:122:TYR:HB2	24:6W:131:HIS:HB3	1.72	0.72
36:7V:32:LYS:HD3	36:7V:72:LEU:N	2.02	0.72
2:4:29:GLY:C	26:7D:45:MET:CE	2.59	0.72
2:H3:288:VAL:HG11	2:H3:328:VAL:HG12	1.71	0.72
1:J0:320:ARG:HH22	28:7H:419:ILE:HD11	1.54	0.72
2:M9:267:PHE:HB2	2:M9:384:ILE:HD12	1.71	0.72
1:U8:345:ILE:O	1:U8:348:ASN:ND2	2.22	0.72
2:W7:88:HIS:CD2	2:W7:89:PRO:HD2	2.24	0.72
1:Z8:139:LEU:HD12	1:Z8:170:VAL:HG12	1.72	0.72
1:2W:67:ASP:OD2	1:2W:72:THR:OG1	2.06	0.72
1:2Y:45:GLU:HG3	1:2Y:46:ARG:HG2	1.71	0.72
1:2Y:340:TYR:OH	38:8C:95:LYS:O	2.08	0.72
1:3C:355:ASP:OD1	38:8D:198:THR:CG2	2.36	0.72
14:5N:356:PHE:HB2	14:5N:367:TRP:HB2	1.71	0.72
24:6T:597:LEU:HB3	24:6T:602:LEU:HD21	1.69	0.72
36:7W:98:VAL:O	36:7W:102:MET:N	2.20	0.72
38:8A:206:PRO:HG2	38:8A:209:HIS:CE1	2.25	0.72
1:F0:58:ARG:HD3	1:G6:280:GLN:HE22	1.54	0.71
2:G1:278:ALA:HB3	22:6L:215:GLY:HA2	1.71	0.71
1:H4:276:ARG:NH2	24:6U:490:THR:CA	2.43	0.71
1:I8:271:THR:HG21	1:I8:293:MET:HG3	1.71	0.71
1:J4:273:LEU:H	1:J4:292:GLN:HE22	1.38	0.71
2:M5:267:PHE:HB2	2:M5:384:ILE:HD12	1.72	0.71
1:T6:27:GLU:OE1	1:T6:241:ARG:NH1	2.22	0.71
2:V3:213:CYS:HA	2:V3:217:LEU:HB2	1.72	0.71
1:X6:396:HIS:HA	1:X6:399:THR:HG22	1.71	0.71
2:Z3:388:PHE:HB3	2:Z3:425:LEU:HD11	1.72	0.71
2:0B:88:HIS:HB3	2:0R:283:HIS:ND1	2.05	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0V:264:ARG:NH2	2:0V:431:ASP:OD2	2.22	0.71
1:1C:33:THR:O	1:1C:58:ARG:NH2	2.19	0.71
2:2X:88:HIS:HB3	2:3N:283:HIS:ND1	2.05	0.71
1:3A:337:ASN:OD1	38:8C:53:ALA:N	2.23	0.71
1:3S:140:GLY:O	1:3S:184:ASN:ND2	2.23	0.71
17:5V:179:GLN:NE2	17:5V:179:GLN:HA	2.05	0.71
2:A2:40:LYS:NZ	26:7F:45:MET:N	2.37	0.71
1:H6:276:ARG:CD	24:6V:490:THR:O	2.37	0.71
1:R2:92:PHE:CE1	24:6V:33:LEU:CD1	2.73	0.71
1:Z6:33:THR:O	1:Z6:58:ARG:NH2	2.23	0.71
1:2M:68:LEU:HB3	1:2M:96:GLY:HA2	1.71	0.71
1:2Q:211:CYS:HA	1:2Q:215:LEU:HB2	1.72	0.71
1:2W:5:VAL:HG12	1:2W:62:ARG:HD3	1.72	0.71
1:3A:34:GLY:O	1:3A:58:ARG:HA	1.91	0.71
21:6G:131:TYR:OH	21:6G:208:ASP:OD1	2.07	0.71
29:7I:220:LEU:HD12	29:7I:221:PRO:HD2	1.72	0.71
1:N6:253:LEU:HD11	1:N6:316:LEU:HD11	1.72	0.71
2:O9:406:HIS:HA	2:O9:409:VAL:HG12	1.72	0.71
2:P3:90:GLU:HB3	2:P3:121:ARG:HH12	1.56	0.71
1:Q4:175:VAL:HG22	2:Q5:329:ASN:HD21	1.54	0.71
2:S5:364:PRO:HB3	31:7M:47:ARG:HH12	1.53	0.71
1:S6:213:ARG:HH21	1:S6:297:LYS:HD3	1.55	0.71
1:T4:292:GLN:O	1:T4:298:ASN:ND2	2.24	0.71
2:W5:284:GLU:OE1	2:W5:284:GLU:HA	1.89	0.71
1:Z4:14:ASN:HD21	1:Z4:65:LEU:HB3	1.56	0.71
1:1O:215:LEU:HB3	1:1O:217:LEU:HD23	1.72	0.71
1:2I:118:ASP:OD2	38:8C:99:THR:CB	2.35	0.71
2:3D:214:ARG:HH22	38:8D:66:TYR:HA	1.55	0.71
2:3H:286:LEU:O	2:3H:373:ARG:NH1	2.24	0.71
1:3Q:218:THR:HB	38:8D:227:LYS:HA	1.71	0.71
10:5C:334:ARG:HH11	10:5C:338:LYS:HD3	1.55	0.71
24:6X:451:LYS:CB	24:6X:468:ARG:NH1	2.52	0.71
36:7W:32:LYS:HD3	36:7W:72:LEU:N	2.02	0.71
38:8B:165:LYS:HD2	38:8B:165:LYS:N	2.01	0.71
38:8C:72:ASP:N	38:8C:72:ASP:OD2	2.19	0.71
1:1:337:ASN:ND2	3:3V:69:TYR:H	1.88	0.71
1:3:262:ARG:HH12	3:3X:240:ARG:HH11	1.36	0.71
2:A4:357:TYR:HB3	26:7F:146:ASN:HA	1.71	0.71
1:G0:32:PRO:HD2	24:6V:527:ASN:HD22	1.54	0.71
2:G1:344:VAL:CG1	2:G1:347:CYS:HB3	2.19	0.71
2:H5:132:LEU:HD22	2:H5:164:LYS:HD3	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J2:140:GLY:O	1:J2:184:ASN:ND2	2.23	0.71
1:M2:145:SER:OG	1:M2:188:SER:OG	2.09	0.71
1:U8:113:ILE:HA	1:U8:116:VAL:HG22	1.70	0.71
1:X2:67:ASP:OD2	1:X2:72:THR:OG1	2.07	0.71
1:X4:236:ILE:HD11	1:X4:368:ILE:HD11	1.71	0.71
1:Z2:67:ASP:OD2	1:Z2:72:THR:OG1	2.08	0.71
2:0L:198:THR:HG21	2:0L:201:ALA:HB2	1.71	0.71
1:0M:311:LEU:HD23	1:0M:312:THR:HG23	1.72	0.71
1:0O:45:GLU:HG3	1:0O:46:ARG:HG2	1.72	0.71
2:1H:202:VAL:HG12	2:1H:268:MET:HB2	1.72	0.71
1:1K:135:VAL:HG11	1:1K:152:ILE:HD11	1.72	0.71
1:1S:418:LEU:HG	1:1S:422:TYR:HE2	1.55	0.71
1:3O:77:ARG:HH21	3:4F:19:LEU:CD2	2.02	0.71
2:3T:216:SER:OG	2:3T:275:ILE:O	2.06	0.71
3:3V:150:GLU:O	3:3V:190:LYS:NZ	2.22	0.71
3:3X:150:GLU:O	3:3X:190:LYS:NZ	2.22	0.71
3:3Z:150:GLU:O	3:3Z:190:LYS:NZ	2.22	0.71
3:4B:150:GLU:O	3:4B:190:LYS:NZ	2.22	0.71
3:4F:150:GLU:O	3:4F:190:LYS:NZ	2.22	0.71
14:5L:112:SER:HA	14:5L:155:PHE:HD2	1.54	0.71
22:6J:108:ARG:NH2	24:6U:284:THR:O	2.23	0.71
22:6L:177:LEU:HD23	22:6L:187:MET:CE	2.19	0.71
29:7J:225:THR:HG23	29:7J:228:GLY:H	1.55	0.71
35:7T:236:GLU:HA	35:7T:239:LYS:HE3	1.71	0.71
1:G4:200:MET:HE3	1:G4:268:VAL:HG21	1.73	0.71
2:G7:9:ILE:HG22	2:G7:146:GLY:HA2	1.71	0.71
1:J2:113:ILE:HD13	1:J2:150:LEU:HD22	1.71	0.71
2:N5:88:HIS:CE1	2:N5:90:GLU:HG3	2.25	0.71
1:O8:58:ARG:HD3	1:Q6:280:GLN:HE22	1.54	0.71
1:O8:320:ARG:HH12	32:7P:64:THR:HA	1.56	0.71
1:P4:345:ILE:O	1:P4:348:ASN:ND2	2.23	0.71
1:S4:334:GLN:HE22	1:S4:348:ASN:H	1.38	0.71
1:W8:139:LEU:HD12	1:W8:170:VAL:HG12	1.71	0.71
2:0J:9:ILE:HG13	2:0J:68:LEU:HD11	1.73	0.71
2:1H:9:ILE:HG22	2:1H:146:GLY:HA2	1.72	0.71
1:2S:306:ARG:HH22	38:8A:51:GLN:HA	1.54	0.71
2:3D:88:HIS:HB3	2:3T:283:HIS:ND1	2.04	0.71
2:3L:339:ARG:HE	2:3L:339:ARG:HA	1.56	0.71
4:4A:35:LYS:NZ	3:4B:254:LYS:O	2.18	0.71
3:4D:150:GLU:O	3:4D:190:LYS:NZ	2.22	0.71
3:4H:150:GLU:O	3:4H:190:LYS:NZ	2.22	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:5P:55:LEU:N	15:5P:55:LEU:HD23	2.04	0.71
17:5U:174:SER:HB2	17:5U:175:PRO:HD2	1.72	0.71
24:6W:484:GLU:O	24:6W:484:GLU:HG3	1.89	0.71
24:6X:95:VAL:CG1	24:6X:124:TYR:CD2	2.74	0.71
24:7A:97:ARG:H	24:7A:188:THR:HG21	1.56	0.71
2:4:82:THR:HG22	26:7D:118:SER:H	1.54	0.71
1:I2:345:ILE:O	1:I2:348:ASN:ND2	2.24	0.71
2:M7:90:GLU:HB3	1:O4:281:TYR:CE2	2.25	0.71
1:T2:92:PHE:CE2	24:6Y:33:LEU:HB3	2.26	0.71
1:X4:218:THR:HG23	1:X4:219:THR:HG23	1.71	0.71
2:0X:340:THR:HG23	2:0X:341:ILE:HD12	1.72	0.71
1:2Y:320:ARG:CZ	38:8C:198:THR:HA	2.21	0.71
5:4M:293:LEU:CB	28:7X:306:LEU:HD21	2.19	0.71
24:6T:10:LYS:HE3	12:7B:95:LEU:HD12	1.73	0.71
2:D5:279:GLU:OE2	18:6C:178:GLN:CD	2.28	0.71
1:I2:180:VAL:HG23	1:I2:184:ASN:HD21	1.55	0.71
1:N2:248:ALA:CA	1:N2:252:LYS:HD2	2.11	0.71
2:S9:415:GLU:OE2	2:S9:415:GLU:N	2.23	0.71
2:U9:88:HIS:HE1	2:W5:280:LYS:HG2	1.55	0.71
2:W1:88:HIS:CD2	2:W1:121:ARG:HH22	2.08	0.71
2:Z1:53:PHE:HB3	2:Z1:61:HIS:HB3	1.71	0.71
1:Z2:7:ILE:HG22	1:Z2:64:ILE:HB	1.72	0.71
2:Z5:202:VAL:HG22	2:Z5:268:MET:HB2	1.72	0.71
1:Z8:179:VAL:HG22	2:Z9:258:ASN:HD22	1.55	0.71
2:0R:352:LYS:NZ	2:0R:353:CYS:O	2.24	0.71
2:2H:120:ASP:OD2	38:8B:27:HIS:NE2	2.21	0.71
1:2I:118:ASP:CB	38:8C:99:THR:CB	2.57	0.71
1:2Q:276:ARG:HE	10:5C:196:LEU:HG	1.56	0.71
2:3P:84:ARG:HE	23:6S:15:ARG:HH22	1.36	0.71
24:6X:130:MET:SD	24:6X:166:PHE:CZ	2.84	0.71
24:6X:481:LEU:HB3	24:6X:500:ARG:HB3	1.71	0.71
1:A9:320:ARG:HH12	18:5X:53:GLY:HA3	1.53	0.71
2:B0:206:ASN:ND2	41:B0:501:GTP:O2'	2.24	0.71
2:D3:285:GLN:HE21	24:6X:253:PRO:HG2	1.56	0.71
2:E7:282:TYR:CG	22:6L:82:LEU:HD21	2.25	0.71
2:G7:72:PRO:HG3	1:G8:1:MET:HG2	1.72	0.71
1:J6:131:GLN:HE21	1:J6:250:LEU:HB2	1.56	0.71
2:K1:133:GLN:NE2	2:K1:251:ASP:HB2	2.06	0.71
1:M2:190:HIS:HD2	1:M2:411:ALA:HA	1.56	0.71
1:P6:52:ASN:OD1	1:P6:62:ARG:NH2	2.24	0.71
1:R0:10:GLY:O	1:R0:14:ASN:ND2	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R5:263:PRO:O	17:5T:84:ARG:NH1	2.23	0.71
2:S5:301:MET:HE1	2:S5:307:PRO:HD3	1.73	0.71
1:Y8:113:ILE:HD13	1:Y8:150:LEU:HD22	1.73	0.71
1:O1:49:VAL:HG21	1:O1:240:LEU:HD13	1.73	0.71
1:3C:306:ARG:HH22	38:8D:99:THR:H	1.38	0.71
12:5F:359:LEU:HD21	12:5F:363:MET:SD	2.31	0.71
15:5O:234:ALA:HB1	15:5O:366:VAL:HG23	1.72	0.71
15:5O:284:VAL:HG11	25:7C:80:ARG:NE	2.04	0.71
18:5X:180:ARG:HD2	18:5X:196:VAL:HG11	1.72	0.71
19:6E:92:ARG:CG	19:6E:99:ARG:HE	2.03	0.71
20:6F:370:LEU:HD23	20:6F:384:LEU:HB2	1.73	0.71
24:6U:597:LEU:HB3	24:6U:602:LEU:HD21	1.70	0.71
29:7J:388:MET:HA	29:7J:388:MET:HE3	1.72	0.71
1:E2:204:ASN:HD21	39:E2:501:GDP:HN22	1.38	0.71
2:F7:206:ASN:OD1	41:F8:501:GTP:N2	2.22	0.71
2:I3:195:LEU:HD21	2:I3:264:ARG:HD2	1.72	0.71
2:J3:88:HIS:CD2	2:J3:89:PRO:HD2	2.26	0.71
1:L0:334:GLN:HE22	1:L0:348:ASN:H	1.38	0.71
1:M4:345:ILE:O	1:M4:348:ASN:ND2	2.24	0.71
1:O2:396:HIS:HA	1:O2:399:THR:HG22	1.73	0.71
1:O6:388:MET:CE	2:O7:348:PRO:HD2	2.21	0.71
2:O7:29:GLY:HA2	32:7P:79:LEU:HD22	1.73	0.71
1:S8:263:LEU:HD22	1:S8:422:TYR:HE1	1.55	0.71
1:X8:50:TYR:OH	1:X8:237:THR:OG1	2.07	0.71
2:Z3:83:TYR:HB3	2:Z3:86:LEU:HB3	1.73	0.71
1:0Y:107:THR:OG1	1:0Y:108:GLU:OE1	2.08	0.71
1:1U:67:ASP:OD2	1:1U:72:THR:OG1	2.07	0.71
2:3H:287:SER:N	2:3H:290:GLU:OE2	2.22	0.71
24:6X:445:ILE:HG22	24:6X:447:ARG:HD2	1.72	0.71
2:A2:370:LYS:HD3	24:6Y:92:ASP:OD1	1.88	0.71
1:G2:391:ARG:HH11	1:G2:391:ARG:CG	2.01	0.71
2:H3:274:PRO:HB2	2:H3:276:ILE:HG12	1.72	0.71
2:I7:33:ASP:O	2:I7:60:LYS:NZ	2.24	0.71
2:J3:85:GLN:O	2:K9:283:HIS:HE1	1.73	0.71
2:L3:279:GLU:OE1	2:L3:279:GLU:N	2.23	0.71
2:M7:108:TYR:O	2:M7:112:LYS:NZ	2.20	0.71
2:P3:307:PRO:HB2	2:P3:312:TYR:HE1	1.56	0.71
1:V6:175:VAL:HG13	2:V7:329:ASN:HD21	1.56	0.71
2:X5:88:HIS:HB3	2:Z1:283:HIS:ND1	2.06	0.71
1:Y8:117:LEU:HD11	1:Y8:154:LYS:HD3	1.71	0.71
2:0B:352:LYS:NZ	2:0B:353:CYS:O	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0H:66:ILE:HG12	2:0H:122:ILE:HD11	1.71	0.71
1:0I:211:CYS:HA	1:0I:215:LEU:HB2	1.73	0.71
1:0O:272:PRO:HB2	1:0O:282:ARG:HH12	1.52	0.71
1:0S:103:LYS:HE2	1:0S:108:GLU:HG2	1.73	0.71
1:2E:77:ARG:HH21	1:2E:90:PHE:HD2	1.38	0.71
2:2X:279:GLU:OE1	2:2X:279:GLU:N	2.15	0.71
2:3J:246:GLY:H	2:3J:249:ASN:HD21	1.39	0.71
3:3X:122:ARG:NH2	3:3X:167:GLU:OE1	2.23	0.71
5:4M:293:LEU:CB	28:7X:306:LEU:CD2	2.69	0.71
8:4W:460:ALA:CB	8:4X:128:LEU:HD22	2.20	0.71
22:6J:170:ARG:NH2	22:6J:246:GLN:O	2.24	0.71
24:6V:97:ARG:H	24:6V:188:THR:HG21	1.55	0.71
24:6V:268:ASN:HA	24:6V:271:LYS:HD3	1.70	0.71
24:6V:577:VAL:HG21	24:6V:630:LEU:HD21	1.73	0.71
24:6X:514:TYR:O	24:6X:517:LEU:HD13	1.89	0.71
38:8C:206:PRO:HG2	38:8C:209:HIS:NE2	2.05	0.71
1:G4:32:PRO:HD2	24:6X:527:ASN:HD22	1.56	0.70
1:G8:112:LEU:HB3	1:G8:147:MET:HE2	1.72	0.70
2:J7:90:GLU:HB3	2:J7:121:ARG:HH22	1.56	0.70
2:J7:277:SER:CB	2:J7:280:LYS:HZ3	2.04	0.70
1:Q2:259:PRO:HG3	1:Q2:311:LEU:HD21	1.72	0.70
2:T1:286:LEU:O	2:T1:373:ARG:NH1	2.24	0.70
1:T4:69:GLU:OE1	2:T5:2:ARG:NH1	2.24	0.70
1:X0:38:GLY:HA3	8:4X:95:THR:HG23	1.73	0.70
2:Z3:324:VAL:HG22	2:Z3:326:LYS:H	1.55	0.70
2:Z5:298:PRO:HA	2:Z5:301:MET:HG3	1.72	0.70
1:0E:207:LEU:HB3	1:0E:225:LEU:HD22	1.73	0.70
1:2M:110:ALA:HB3	38:8D:87:LYS:HD3	1.73	0.70
1:3C:34:GLY:O	1:3C:58:ARG:HA	1.90	0.70
1:3K:45:GLU:HG3	1:3K:46:ARG:HG2	1.73	0.70
3:4B:122:ARG:NH2	3:4B:167:GLU:OE1	2.23	0.70
3:4F:122:ARG:NH2	3:4F:167:GLU:OE1	2.23	0.70
14:5L:213:THR:OG1	14:5L:217:ASP:OD1	2.09	0.70
14:5M:213:THR:OG1	14:5M:217:ASP:OD1	2.09	0.70
14:5N:213:THR:OG1	14:5N:217:ASP:OD1	2.09	0.70
24:6T:96:LEU:HB2	24:6T:123:TYR:HB3	1.72	0.70
24:6X:597:LEU:HB3	24:6X:602:LEU:HD21	1.73	0.70
2:A2:33:ASP:CB	18:6C:77:THR:HG21	2.21	0.70
1:H6:276:ARG:NH1	24:6V:490:THR:CA	2.54	0.70
1:M0:86:ARG:HB3	2:N7:283:HIS:HE1	1.57	0.70
2:M3:369:ALA:HB1	30:7K:213:PHE:HD2	1.54	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R9:56:THR:HA	2:T5:285:GLN:HB3	1.72	0.70
1:S2:345:ILE:O	1:S2:348:ASN:ND2	2.24	0.70
2:U9:90:GLU:C	2:U9:121:ARG:HH12	1.94	0.70
1:W8:220:PRO:HD2	2:W9:326:LYS:HD3	1.72	0.70
2:W9:286:LEU:O	2:W9:373:ARG:NH1	2.24	0.70
2:X7:287:SER:N	2:X7:290:GLU:OE2	2.24	0.70
2:X7:320:ARG:NH2	2:X7:358:GLN:OE1	2.25	0.70
2:Y9:352:LYS:NZ	2:Y9:353:CYS:O	2.24	0.70
1:0C:68:LEU:HB3	1:0C:96:GLY:HA2	1.71	0.70
2:0J:399:TYR:O	2:0J:402:ARG:NH1	2.24	0.70
2:0Z:56:THR:HB	2:1P:285:GLN:HB2	1.72	0.70
2:0Z:399:TYR:O	2:0Z:402:ARG:NH1	2.23	0.70
7:4R:62:PHE:CZ	24:6V:9:PRO:HD3	2.26	0.70
2:4:85:GLN:NE2	18:5Y:78:LEU:HB2	2.06	0.70
2:A8:278:ALA:HB3	18:5X:43:ASN:HD22	1.55	0.70
2:H1:88:HIS:HB3	2:I7:283:HIS:ND1	2.06	0.70
1:I4:113:ILE:HA	1:I4:116:VAL:HG12	1.73	0.70
2:T7:297:GLU:HG3	2:T7:299:ALA:H	1.54	0.70
1:X4:5:VAL:HG23	1:X4:62:ARG:HG2	1.73	0.70
1:0A:33:THR:O	1:0A:58:ARG:NH2	2.24	0.70
1:1E:1:MET:HE1	1:1E:2:ARG:HG3	1.72	0.70
1:1Q:113:ILE:HD13	1:1Q:150:LEU:HD22	1.74	0.70
1:1Q:280:GLN:HG2	9:4Z:193:LEU:HG	1.72	0.70
2:1R:399:TYR:O	2:1R:402:ARG:NH1	2.24	0.70
2:1X:336:LYS:O	2:1X:339:ARG:NH2	2.21	0.70
2:2B:399:TYR:O	2:2B:402:ARG:NH1	2.23	0.70
1:2M:165:LEU:HD21	1:2M:250:LEU:HD11	1.73	0.70
1:2Q:320:ARG:NH2	38:8A:198:THR:HA	2.04	0.70
1:3K:113:ILE:HD13	1:3K:150:LEU:HD22	1.73	0.70
3:4D:122:ARG:NH2	3:4D:167:GLU:OE1	2.23	0.70
7:4R:29:VAL:HG21	7:4R:31:LYS:HE2	1.73	0.70
15:5O:234:ALA:HB1	15:5O:366:VAL:CG2	2.21	0.70
15:5P:334:LEU:O	15:5P:334:LEU:HD23	1.90	0.70
29:7J:332:ALA:HB3	29:7J:337:ARG:HE	1.55	0.70
1:B1:320:ARG:HH12	18:5Y:53:GLY:HA3	1.55	0.70
1:H2:122:LYS:HE3	1:I8:291:GLN:HB3	1.73	0.70
1:L2:57:GLY:HA2	30:7K:56:ARG:HH22	1.54	0.70
2:L5:377:MET:SD	2:L5:379:SER:OG	2.45	0.70
1:M6:67:ASP:OD2	1:M6:72:THR:OG1	2.09	0.70
2:O5:128:ASN:ND2	2:O5:128:ASN:O	2.24	0.70
2:P9:56:THR:HG21	2:P9:62:VAL:HG13	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q2:178:THR:HG22	2:Q3:352:LYS:HZ3	1.56	0.70
1:R6:135:VAL:HG21	1:R6:152:ILE:HD11	1.74	0.70
1:S0:125:GLU:OE2	1:S0:159:TYR:OH	2.09	0.70
2:U7:56:THR:HG23	2:U7:60:LYS:HB3	1.72	0.70
1:V2:248:ALA:HA	1:V2:252:LYS:HD2	1.73	0.70
1:W8:219:THR:HA	2:W9:326:LYS:HE2	1.73	0.70
1:X6:192:LEU:HD22	1:X6:196:ALA:HB2	1.71	0.70
1:Z0:33:THR:O	1:Z0:58:ARG:NH2	2.23	0.70
1:0K:45:GLU:HG3	1:0K:46:ARG:HG2	1.72	0.70
2:0Z:88:HIS:CD2	2:0Z:89:PRO:CD	2.72	0.70
1:2G:309:ARG:NH1	1:2G:339:SER:O	2.24	0.70
2:2N:217:LEU:HG	2:2N:219:ILE:HG12	1.73	0.70
3:4H:122:ARG:NH2	3:4H:167:GLU:OE1	2.23	0.70
17:5T:189:TRP:HD1	17:5T:222:ILE:HG23	1.56	0.70
24:6W:597:LEU:HB3	24:6W:602:LEU:HD21	1.72	0.70
1:R6:52:ASN:OD1	1:R6:62:ARG:NH2	2.25	0.70
2:T1:287:SER:N	2:T1:290:GLU:OE2	2.23	0.70
1:T4:391:ARG:O	1:T4:391:ARG:HG3	1.91	0.70
2:Z5:56:THR:HA	2:0L:285:GLN:HG2	1.74	0.70
2:0P:9:ILE:HG12	2:0P:153:LEU:HD21	1.74	0.70
1:0S:181:GLU:HG2	1:0S:182:PRO:HD3	1.71	0.70
2:2B:90:GLU:O	2:2B:121:ARG:NH1	2.18	0.70
1:2C:272:PRO:HB2	1:2C:282:ARG:HH12	1.56	0.70
1:2Q:320:ARG:NH1	38:8A:198:THR:CA	2.52	0.70
1:2Y:56:GLY:HA3	38:8C:161:GLN:HE21	1.56	0.70
2:2Z:88:HIS:HB3	2:2Z:91:GLN:HG2	1.74	0.70
2:3F:287:SER:N	2:3F:290:GLU:OE2	2.25	0.70
3:3V:122:ARG:NH2	3:3V:167:GLU:OE1	2.23	0.70
3:3Z:122:ARG:NH2	3:3Z:167:GLU:OE1	2.23	0.70
9:4Z:328:ASP:HB3	9:4Z:331:ARG:HH21	1.55	0.70
14:5L:180:ASN:OD1	14:5L:180:ASN:N	2.25	0.70
14:5M:180:ASN:OD1	14:5M:180:ASN:N	2.25	0.70
15:5O:289:LEU:N	15:5O:290:PRO:CD	2.54	0.70
24:6T:107:VAL:HG12	24:6T:108:GLU:H	1.57	0.70
24:6Z:244:ALA:HB1	24:6Z:257:LEU:HD11	1.71	0.70
29:7I:126:LEU:HD13	30:7K:321:GLN:HB2	1.72	0.70
2:G9:191:THR:HA	2:G9:194:LEU:HB3	1.74	0.70
2:J3:357:TYR:HB3	16:5Q:173:ARG:CD	2.20	0.70
2:L3:371:VAL:HG22	2:L3:373:ARG:H	1.56	0.70
2:S1:336:LYS:O	2:S1:339:ARG:NH2	2.24	0.70
1:S4:26:ASP:OD1	24:6U:10:LYS:CE	2.40	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W1:267:PHE:HB2	2:W1:384:ILE:HD12	1.73	0.70
1:W2:30:ILE:HG22	1:W2:36:TYR:HA	1.73	0.70
2:X7:406:HIS:HA	2:X7:409:VAL:HG12	1.74	0.70
1:OI:45:GLU:HG3	1:OI:46:ARG:HG2	1.73	0.70
2:OV:56:THR:HA	2:1L:285:GLN:HB2	1.73	0.70
2:OX:11:GLN:OE1	2:OX:15:GLN:NE2	2.25	0.70
2:1P:33:ASP:O	2:1P:60:LYS:NZ	2.24	0.70
1:1S:5:VAL:HG12	1:1S:62:ARG:HD3	1.73	0.70
2:1T:318:MET:HB2	2:1T:376:CYS:HB3	1.73	0.70
2:3B:279:GLU:OE2	2:3B:279:GLU:N	2.12	0.70
21:6H:111:VAL:N	24:6X:82:ALA:O	2.23	0.70
22:6N:110:ILE:O	22:6N:113:ARG:NH1	2.25	0.70
24:6W:525:VAL:HB	24:6W:530:PHE:HE2	1.55	0.70
26:7F:119:MET:HA	26:7F:119:MET:HE3	1.74	0.70
27:7G:91:TYR:HE1	27:7G:99:ARG:HG2	1.57	0.70
2:G5:9:ILE:HG13	2:G5:139:ASN:HB3	1.73	0.70
1:G8:52:ASN:OD1	1:G8:62:ARG:NH2	2.25	0.70
2:H3:91:GLN:HE22	2:H3:125:LEU:HD21	1.57	0.70
2:L3:89:PRO:CB	29:7J:320:PRO:HG3	2.20	0.70
1:L6:219:THR:HB	2:L7:324:VAL:HG11	1.73	0.70
1:N8:282:ARG:NH2	1:N8:288:GLU:OE2	2.24	0.70
2:R5:196:GLU:HG2	17:5T:82:LYS:NZ	2.05	0.70
2:R9:81:GLY:O	2:R9:84:ARG:NH1	2.25	0.70
1:S0:418:LEU:HG	1:S0:422:TYR:HE2	1.57	0.70
2:S1:367:ASP:OD1	7:4R:342:ARG:NH1	2.24	0.70
1:S4:337:ASN:HD21	17:5R:48:THR:H	1.40	0.70
1:S4:392:LYS:HD2	1:S4:392:LYS:N	2.07	0.70
2:U1:344:VAL:HG22	2:U1:346:TRP:H	1.55	0.70
2:V1:9:ILE:HG22	2:V1:146:GLY:HA2	1.74	0.70
2:W9:287:SER:N	2:W9:290:GLU:OE2	2.23	0.70
2:Z9:88:HIS:HB3	2:0P:283:HIS:ND1	2.06	0.70
2:0J:115:VAL:HG23	2:0J:153:LEU:HD23	1.74	0.70
1:0S:211:CYS:HA	1:0S:215:LEU:HB2	1.74	0.70
2:1D:9:ILE:HG22	2:1D:146:GLY:HA2	1.74	0.70
1:3K:276:ARG:HH12	17:5T:216:GLU:HB3	1.56	0.70
1:3M:77:ARG:NH2	3:4D:19:LEU:HD23	2.05	0.70
2:3N:51:THR:HG21	2:3N:243:ARG:HG2	1.73	0.70
1:3O:391:ARG:HH22	2:3P:435:VAL:HA	1.56	0.70
9:4Z:152:ARG:HH22	9:4Z:153:LYS:HE2	1.55	0.70
12:5F:13:PRO:HG3	12:5G:298:ASP:HB2	1.74	0.70
15:5O:28:TYR:OH	15:5O:57:PRO:HG3	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:6F:65:TYR:HB2	20:6F:138:ILE:HD11	1.73	0.70
22:6K:108:ARG:NH2	24:6V:284:THR:O	2.25	0.70
22:6L:110:ILE:O	22:6L:113:ARG:NH1	2.24	0.70
36:7V:95:PHE:O	36:7V:99:GLU:HG2	1.92	0.70
2:E5:282:TYR:OH	22:6K:80:GLY:O	2.08	0.70
2:H5:317:LEU:HD11	2:H5:351:PHE:HD1	1.56	0.70
1:H6:2:ARG:HB3	1:H6:131:GLN:HB2	1.73	0.70
2:J1:11:GLN:NE2	1:J2:247:ASN:OD1	2.25	0.70
1:M2:58:ARG:HG2	2:N9:282:TYR:CE1	2.27	0.70
2:M5:72:PRO:HD2	1:M6:2:ARG:HH12	1.57	0.70
2:M5:121:ARG:HH11	2:M5:121:ARG:HB2	1.56	0.70
2:R9:286:LEU:O	2:R9:373:ARG:NH1	2.25	0.70
2:W7:287:SER:N	2:W7:290:GLU:OE2	2.23	0.70
1:Y8:189:VAL:HA	1:Y8:192:LEU:HB3	1.74	0.70
1:0U:51:PHE:O	1:0U:62:ARG:NH2	2.24	0.70
1:1S:211:CYS:HA	1:1S:215:LEU:HB2	1.72	0.70
2:1X:33:ASP:O	2:1X:60:LYS:NZ	2.25	0.70
1:2A:77:ARG:HH21	1:2A:90:PHE:HD2	1.40	0.70
1:2A:211:CYS:HA	1:2A:215:LEU:HB2	1.74	0.70
2:2X:306:ASP:OD2	38:8B:23:SER:OG	2.03	0.70
1:3K:94:GLN:NE2	3:4B:139:SER:O	2.25	0.70
22:6I:108:ARG:NH2	24:6T:284:THR:O	2.25	0.70
24:6X:107:VAL:HG12	24:6X:108:GLU:H	1.56	0.70
2:A2:370:LYS:HG2	24:6Y:89:VAL:HG23	1.74	0.70
2:F1:88:HIS:ND1	2:G7:283:HIS:HA	2.06	0.70
1:M4:211:CYS:HA	1:M4:215:LEU:HB2	1.74	0.70
1:P4:392:LYS:HD2	1:P4:395:LEU:HD22	1.73	0.70
1:P6:139:LEU:HD12	1:P6:170:VAL:HG22	1.72	0.70
1:R2:194:GLU:OE2	1:R2:414:ASN:ND2	2.24	0.70
2:S5:220:GLU:HG2	2:S5:221:ARG:HG3	1.72	0.70
2:V1:175:PRO:HB2	2:V1:176:GLN:HE21	1.57	0.70
1:W2:145:SER:HG	1:W2:188:SER:HG	1.38	0.70
1:X0:42:LEU:HG	8:4X:97:PHE:HZ	1.55	0.70
2:X3:287:SER:N	2:X3:290:GLU:OE2	2.24	0.70
1:Z4:311:LEU:HD23	1:Z4:312:THR:HG23	1.73	0.70
1:0G:45:GLU:HG3	1:0G:46:ARG:HG2	1.72	0.70
1:1M:309:ARG:NH1	1:1M:339:SER:O	2.25	0.70
2:2D:399:TYR:O	2:2D:402:ARG:NH1	2.25	0.70
2:2H:88:HIS:CE1	2:2H:121:ARG:NH2	2.60	0.70
1:2Q:306:ARG:NH2	38:8A:99:THR:C	2.43	0.70
2:3B:51:THR:HG21	2:3B:243:ARG:HG2	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3H:90:GLU:O	2:3H:121:ARG:NH1	2.24	0.70
1:3O:2:ARG:HE	1:3O:240:LEU:HD22	1.56	0.70
22:6I:63:PRO:HB2	24:6T:399:ILE:HG13	1.74	0.70
22:6I:108:ARG:NH2	24:6T:282:ARG:O	2.24	0.70
24:6U:456:ASP:O	24:6U:459:LYS:NZ	2.23	0.70
24:6W:456:ASP:O	24:6W:459:LYS:NZ	2.23	0.70
1:A3:337:ASN:ND2	3:4H:68:SER:HA	2.06	0.70
2:G9:221:ARG:NH1	22:6P:178:GLY:O	2.24	0.70
2:H7:71:GLU:HG3	1:H8:2:ARG:HH12	1.57	0.70
1:I0:180:VAL:HG23	1:I0:184:ASN:HD21	1.57	0.70
2:I5:33:ASP:O	2:I5:60:LYS:NZ	2.25	0.70
1:J0:309:ARG:H	1:J0:372:THR:HG22	1.56	0.70
2:J3:413:MET:HB3	2:J3:417:GLU:OE2	1.92	0.70
2:Q9:415:GLU:OE1	17:5S:113:ILE:HG23	1.91	0.70
2:S9:88:HIS:CD2	2:S9:89:PRO:HD2	2.27	0.70
1:V4:125:GLU:OE1	1:X0:291:GLN:NE2	2.25	0.70
2:Y1:88:HIS:HB3	2:Z7:283:HIS:ND1	2.07	0.70
1:Y8:52:ASN:OD1	1:Y8:62:ARG:NH2	2.25	0.70
2:0Z:108:TYR:O	2:0Z:112:LYS:NZ	2.21	0.70
2:0Z:224:TYR:O	2:0Z:228:ASN:ND2	2.22	0.70
2:1D:132:LEU:HD22	2:1D:164:LYS:HD3	1.71	0.70
2:1F:317:LEU:HB3	2:1F:319:TYR:HE1	1.57	0.70
2:1L:88:HIS:CD2	2:1L:89:PRO:HD2	2.27	0.70
2:1X:317:LEU:HB3	2:1X:319:TYR:HE1	1.57	0.70
1:2I:311:LEU:HD23	1:2I:312:THR:HG23	1.72	0.70
2:3L:163:LYS:HE3	3:4B:137:ARG:HG2	1.72	0.70
1:3M:391:ARG:HD3	1:3M:393:ALA:HB2	1.72	0.70
7:4R:8:VAL:HG22	7:4R:9:PRO:CD	2.21	0.70
8:4W:362:LYS:HG2	8:4W:366:LYS:HE3	1.73	0.70
19:6E:16:GLU:HA	19:6E:16:GLU:OE1	1.92	0.70
22:6N:108:ARG:NH2	24:6Y:282:ARG:O	2.25	0.70
24:6X:32:THR:HG23	24:6X:33:LEU:HD12	1.72	0.70
31:7N:80:PRO:HD2	31:7N:83:THR:HG21	1.72	0.70
1:A3:215:LEU:HD11	26:7F:136:PHE:CE2	2.26	0.69
2:C5:179:THR:HG1	41:C5:501:GTP:HO3'	1.37	0.69
2:I9:287:SER:N	2:I9:290:GLU:OE2	2.24	0.69
2:M3:221:ARG:HH22	30:7K:189:PHE:N	1.91	0.69
2:S7:203:MET:N	2:S7:203:MET:SD	2.65	0.69
2:V7:31:GLN:HE21	2:V7:37:PRO:HG3	1.55	0.69
2:Z1:166:LYS:N	2:Z1:199:ASP:OD2	2.23	0.69
1:Z2:33:THR:O	1:Z2:58:ARG:NH2	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0W:334:GLN:HE22	1:0W:348:ASN:H	1.38	0.69
2:1D:101:ASN:OD1	1:1E:252:LYS:HE3	1.92	0.69
2:1H:253:THR:HA	2:1H:256:GLN:HE21	1.57	0.69
2:1Z:268:MET:HB3	2:1Z:378:ILE:HD11	1.72	0.69
2:2Z:297:GLU:CG	38:8C:74:ILE:HG22	2.19	0.69
2:3P:124:LYS:NZ	3:4F:36:PHE:HA	2.07	0.69
15:5O:30:PRO:O	15:5O:33:LYS:HD2	1.91	0.69
15:5O:34:GLU:HG3	15:5O:49:ARG:HD3	1.72	0.69
24:6T:456:ASP:O	24:6T:459:LYS:NZ	2.23	0.69
24:6U:92:ASP:OD1	24:6U:93:ARG:N	2.24	0.69
24:6Z:96:LEU:HB2	24:6Z:123:TYR:HB3	1.73	0.69
35:7U:157:ARG:NH2	36:7W:57:ASP:OD1	2.24	0.69
38:8C:204:GLN:HA	38:8C:204:GLN:HE21	1.56	0.69
2:A2:40:LYS:NZ	26:7F:45:MET:CA	2.55	0.69
1:G4:334:GLN:HE22	1:G4:348:ASN:H	1.39	0.69
2:H5:90:GLU:HB3	2:H5:121:ARG:HH22	1.57	0.69
1:I8:140:GLY:O	1:I8:184:ASN:ND2	2.25	0.69
2:J1:191:THR:HA	2:J1:194:LEU:HB3	1.74	0.69
1:J8:272:PRO:HB2	1:J8:282:ARG:HH12	1.56	0.69
1:L4:53:GLU:OE2	29:7J:329:SER:HB3	1.92	0.69
2:M3:27:GLU:OE1	2:M3:243:ARG:NH1	2.24	0.69
2:Q9:18:ASN:ND2	12:7B:75:TYR:HE1	1.91	0.69
1:T0:222:PHE:HB2	7:4T:367:ARG:HG2	1.73	0.69
2:W7:175:PRO:HB2	2:W7:176:GLN:HE21	1.57	0.69
2:W9:72:PRO:HD2	1:X0:2:ARG:HH12	1.57	0.69
1:X8:273:LEU:H	1:X8:292:GLN:HE22	1.40	0.69
1:Z6:20:PHE:CE1	1:Z6:233:MET:HG2	2.27	0.69
1:0W:113:ILE:HD11	1:0W:151:LEU:HA	1.73	0.69
1:0W:214:THR:O	1:0W:275:SER:OG	2.10	0.69
1:1A:350:LYS:NZ	1:1A:352:SER:OG	2.25	0.69
2:1P:220:GLU:HG2	2:1P:221:ARG:HG3	1.74	0.69
2:2B:336:LYS:O	2:2B:339:ARG:NH2	2.24	0.69
1:2E:125:GLU:O	38:8A:3:ASN:ND2	2.23	0.69
2:2N:123:ARG:HD3	38:8D:75:SER:HB3	1.74	0.69
2:2R:308:ARG:HH22	38:8A:72:ASP:HB2	1.57	0.69
1:2Y:56:GLY:HA3	38:8C:161:GLN:NE2	2.08	0.69
2:3B:222:PRO:HD2	1:3C:324:LYS:HE3	1.72	0.69
2:3P:250:VAL:HB	2:3P:254:GLU:HG3	1.74	0.69
6:4O:93:LEU:HD21	30:7K:449:ALA:HA	1.73	0.69
14:5M:365:ARG:NH2	14:5M:377:ARG:NH1	2.40	0.69
15:5O:363:GLU:O	27:7G:99:ARG:NH1	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:6Y:107:VAL:HG22	24:6Y:108:GLU:H	1.58	0.69
1:A7:276:ARG:HH12	24:6T:210:VAL:HG11	1.55	0.69
2:H1:132:LEU:HD22	2:H1:164:LYS:HD3	1.74	0.69
1:H2:345:ILE:O	1:H2:348:ASN:ND2	2.24	0.69
2:J9:324:VAL:HG21	2:J9:326:LYS:NZ	2.06	0.69
2:L5:311:LYS:HE3	2:L5:344:VAL:HA	1.75	0.69
2:O1:226:ASN:HD21	37:7Y:250:GLN:NE2	1.91	0.69
2:W5:72:PRO:HD2	1:W6:2:ARG:HH12	1.56	0.69
2:W7:85:GLN:O	2:Y3:283:HIS:CE1	2.38	0.69
2:Y1:287:SER:N	2:Y1:290:GLU:OE2	2.24	0.69
1:Y8:5:VAL:HG22	1:Y8:62:ARG:HD3	1.74	0.69
1:Z6:5:VAL:HG22	1:Z6:62:ARG:HD3	1.74	0.69
1:0K:183:TYR:CZ	1:0K:388:MET:HB3	2.28	0.69
1:0W:350:LYS:NZ	1:0W:351:SER:O	2.24	0.69
2:1V:121:ARG:HG2	2:1V:121:ARG:NH1	1.93	0.69
2:1Z:156:ARG:HH22	38:7Z:29:GLY:HA2	1.56	0.69
2:2H:156:ARG:NH2	38:8B:29:GLY:HA2	2.07	0.69
2:2N:336:LYS:O	2:2N:339:ARG:NH2	2.24	0.69
2:2P:88:HIS:HB3	2:3F:283:HIS:ND1	2.07	0.69
2:3J:267:PHE:HB2	2:3J:384:ILE:HD12	1.74	0.69
2:3N:286:LEU:O	2:3N:373:ARG:NH1	2.24	0.69
2:3T:71:GLU:HG2	2:3T:98:ASP:HB3	1.74	0.69
10:5B:257:GLN:OE1	10:5B:260:LYS:HE3	1.93	0.69
15:5O:338:LEU:HD12	15:5O:339:ARG:HG2	1.74	0.69
23:6R:54:ASN:N	23:6R:54:ASN:OD1	2.25	0.69
29:7J:316:VAL:CG1	29:7J:341:GLU:HA	2.21	0.69
2:D1:285:GLN:HE21	24:6W:253:PRO:HG2	1.58	0.69
1:I2:113:ILE:HG13	1:I2:150:LEU:HD22	1.74	0.69
2:I9:88:HIS:HA	2:K5:283:HIS:ND1	2.07	0.69
2:J1:33:ASP:O	2:J1:60:LYS:NZ	2.24	0.69
1:K4:362:LYS:HA	6:4O:169:PHE:HZ	1.57	0.69
1:Q8:28:HIS:HE1	1:Q8:241:ARG:HE	1.40	0.69
2:Q9:51:THR:HG21	2:Q9:243:ARG:HG2	1.73	0.69
1:T4:217:LEU:HD22	7:4U:134:GLU:HB3	1.73	0.69
1:U8:372:THR:HG21	1:U8:426:GLN:HB2	1.72	0.69
2:V7:239:THR:HG23	2:V7:243:ARG:HE	1.58	0.69
2:X5:206:ASN:OD1	41:X6:501:GTP:N2	2.25	0.69
1:Z0:52:ASN:OD1	1:Z0:62:ARG:NH2	2.25	0.69
2:Z1:233:GLN:NE2	2:Z1:272:TYR:OH	2.24	0.69
2:0R:336:LYS:O	2:0R:339:ARG:NH2	2.26	0.69
2:1F:115:VAL:HG23	2:1F:153:LEU:HD23	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1Q:5:VAL:HG12	1:1Q:62:ARG:HD3	1.74	0.69
1:2C:375:GLN:HB2	1:2C:419:VAL:HG23	1.74	0.69
2:2P:214:ARG:NH1	38:7Z:17:GLY:O	2.26	0.69
1:2S:306:ARG:NH2	38:8A:51:GLN:OE1	2.25	0.69
2:3P:124:LYS:HZ3	3:4F:36:PHE:HA	1.56	0.69
1:3S:190:HIS:CD2	1:3S:411:ALA:HA	2.27	0.69
14:5M:365:ARG:NH2	14:5M:377:ARG:HH11	1.90	0.69
28:7H:399:VAL:HG22	28:7H:430:MET:SD	2.32	0.69
1:3:262:ARG:NH1	3:3X:295:TYR:OH	2.25	0.69
1:G8:175:VAL:HG12	2:G9:329:ASN:HD21	1.57	0.69
2:I1:121:ARG:HH11	2:I1:121:ARG:CG	1.96	0.69
2:M7:285:GLN:HE21	30:7K:84:VAL:CG1	2.04	0.69
2:N3:192:HIS:NE2	2:N3:420:GLU:OE1	2.21	0.69
2:N5:88:HIS:CE1	2:N5:90:GLU:CB	2.75	0.69
2:R5:166:LYS:N	2:R5:199:ASP:OD2	2.24	0.69
2:S1:100:ALA:HA	1:S2:252:LYS:HE2	1.75	0.69
1:S4:337:ASN:OD1	17:5R:48:THR:OG1	2.09	0.69
2:S5:245:ASP:HB3	24:6U:29:LYS:HD3	1.74	0.69
2:U9:220:GLU:HG2	2:U9:221:ARG:HG3	1.74	0.69
1:X0:42:LEU:CD2	8:4X:97:PHE:CZ	2.76	0.69
1:Z8:3:GLU:HB2	1:Z8:130:LEU:HA	1.73	0.69
1:1G:334:GLN:HE22	1:1G:348:ASN:H	1.38	0.69
2:1P:399:TYR:O	2:1P:402:ARG:NH1	2.25	0.69
2:1R:88:HIS:HB3	2:1R:91:GLN:HG3	1.73	0.69
2:1T:387:ILE:HG12	2:1T:390:ARG:HH22	1.57	0.69
1:3C:362:LYS:HD2	1:3C:363:MET:HG3	1.72	0.69
2:3R:50:ASN:O	2:3R:64:ARG:NH2	2.24	0.69
14:5N:512:PHE:HD1	14:5N:512:PHE:N	1.89	0.69
15:5P:162:GLU:HB2	15:5P:222:PHE:HE1	1.58	0.69
24:6V:354:ARG:HB2	24:6V:357:LEU:HG	1.75	0.69
24:6Z:456:ASP:O	24:6Z:459:LYS:NZ	2.25	0.69
2:H1:9:ILE:HG22	2:H1:146:GLY:HA2	1.73	0.69
2:J9:88:HIS:HB3	2:L5:283:HIS:ND1	2.07	0.69
1:L2:219:THR:OG1	29:7J:430:ASN:OD1	2.10	0.69
2:L5:88:HIS:CG	2:N1:283:HIS:HB2	2.27	0.69
1:N0:285:THR:HG23	1:N0:288:GLU:H	1.58	0.69
2:O9:287:SER:N	2:O9:290:GLU:OE2	2.16	0.69
2:P9:287:SER:N	2:P9:290:GLU:OE2	2.25	0.69
1:R8:248:ALA:HA	1:R8:252:LYS:HD2	1.74	0.69
1:S8:45:GLU:HG3	1:S8:46:ARG:HG2	1.73	0.69
2:S9:155:GLU:OE2	2:S9:197:HIS:NE2	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S9:267:PHE:HB2	2:S9:384:ILE:HD12	1.73	0.69
1:V6:257:LEU:HA	1:V6:312:THR:HG21	1.74	0.69
2:W9:14:ILE:HD11	2:W9:74:VAL:HG11	1.74	0.69
2:Z3:279:GLU:HG2	2:Z3:280:LYS:HD2	1.74	0.69
2:Z5:388:PHE:HB3	2:Z5:425:LEU:HD11	1.75	0.69
1:OS:259:PRO:HG3	1:OS:311:LEU:HD21	1.75	0.69
2:1L:121:ARG:O	2:1L:121:ARG:HD2	1.92	0.69
1:1O:248:ALA:CA	1:1O:252:LYS:HD3	2.22	0.69
2:2D:56:THR:HA	2:2T:285:GLN:HB2	1.74	0.69
1:2I:53:GLU:CD	1:2I:53:GLU:H	1.94	0.69
1:2K:199:CYS:HG	1:2K:265:PHE:HE1	1.40	0.69
1:2Q:52:ASN:OD1	1:2Q:62:ARG:NH2	2.26	0.69
2:2T:358:GLN:NE2	38:8B:212:PRO:HB2	2.06	0.69
15:5O:34:GLU:OE2	15:5O:49:ARG:CG	2.40	0.69
22:6I:294:LEU:HD22	22:6I:343:TYR:HB2	1.75	0.69
22:6P:262:TYR:HA	22:6P:266:LYS:HE2	1.74	0.69
24:6X:139:ASN:HD22	24:6X:223:ARG:HH21	1.38	0.69
38:8B:166:GLU:N	38:8B:166:GLU:OE2	2.23	0.69
1:D4:204:ASN:HD21	39:D4:501:GDP:HN22	1.39	0.69
1:I0:218:THR:CG2	24:6X:489:ASN:CA	2.70	0.69
1:L6:172:SER:OG	1:L6:380:ARG:NH2	2.26	0.69
2:N9:220:GLU:HG2	2:N9:221:ARG:HG3	1.75	0.69
1:T4:45:GLU:OE2	21:6H:97:ARG:NH1	2.25	0.69
1:T6:92:PHE:HZ	24:7A:44:ALA:HB1	1.54	0.69
2:U5:203:MET:HE1	2:U5:267:PHE:HB3	1.74	0.69
1:0M:3:GLU:HB2	1:0M:130:LEU:HD13	1.73	0.69
2:0N:9:ILE:HG22	2:0N:146:GLY:HA2	1.75	0.69
2:0P:9:ILE:HG22	2:0P:146:GLY:HA2	1.74	0.69
2:0P:55:GLU:O	2:1F:285:GLN:NE2	2.25	0.69
1:3Q:252:LYS:CA	1:3Q:255:VAL:HG12	2.19	0.69
4:4C:35:LYS:NZ	3:4D:254:LYS:O	2.20	0.69
5:4L:260:ALA:O	5:4L:264:GLN:HG2	1.93	0.69
5:4M:293:LEU:CD1	28:7X:305:ALA:HB1	2.22	0.69
7:4U:112:MET:SD	7:4U:113:PRO:HD2	2.33	0.69
12:5F:271:LEU:HD23	12:7B:23:MET:CG	2.22	0.69
22:6L:183:ASN:O	22:6L:186:ARG:N	2.26	0.69
24:6T:470:ILE:HD13	24:6T:485:PRO:HG3	1.73	0.69
24:6X:122:TYR:HB2	24:6X:131:HIS:HB3	1.75	0.69
24:6X:354:ARG:HB2	24:6X:357:LEU:HD12	1.74	0.69
38:8A:206:PRO:CG	38:8A:209:HIS:CE1	2.75	0.69
38:8B:86:TYR:O	38:8B:89:SER:N	2.19	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:40:SER:O	26:7D:25:TYR:CE2	2.45	0.69
1:B3:277:GLY:HA2	24:6W:142:ILE:HG22	1.75	0.69
2:D3:79:ARG:NH2	22:6N:19:GLY:O	2.25	0.69
1:F8:276:ARG:HH21	24:6U:420:LEU:HA	1.58	0.69
1:G2:45:GLU:HG3	1:G2:46:ARG:HG2	1.73	0.69
2:G5:221:ARG:HG3	22:6N:178:GLY:HA2	1.75	0.69
2:H7:392:ASP:OD2	2:H7:422:ARG:NH1	2.25	0.69
1:H8:345:ILE:O	1:H8:348:ASN:ND2	2.24	0.69
1:I2:334:GLN:HE22	1:I2:348:ASN:H	1.38	0.69
2:J5:42:ILE:HG21	5:4L:478:ARG:CZ	2.23	0.69
2:J7:279:GLU:HA	2:J7:279:GLU:OE2	1.92	0.69
1:J8:178:THR:HG23	1:J8:181:GLU:HG3	1.74	0.69
2:M3:90:GLU:HG3	2:M3:121:ARG:NH1	2.08	0.69
2:M7:89:PRO:CG	19:6E:25:VAL:CG1	2.71	0.69
2:N1:71:GLU:HB3	2:N1:98:ASP:HB2	1.74	0.69
1:N6:65:LEU:HD12	1:N6:90:PHE:HE1	1.57	0.69
2:R3:286:LEU:O	2:R3:373:ARG:NH1	2.26	0.69
2:S7:88:HIS:HB3	2:S7:91:GLN:HG3	1.75	0.69
2:S7:287:SER:N	2:S7:290:GLU:OE2	2.22	0.69
2:T5:368:LEU:O	7:4U:156:GLN:NE2	2.26	0.69
1:W0:135:VAL:HG11	1:W0:152:ILE:HD11	1.74	0.69
2:W7:264:ARG:NH2	2:W7:431:ASP:OD2	2.25	0.69
2:W9:276:ILE:HD11	2:W9:281:ALA:HA	1.74	0.69
2:X3:399:TYR:OH	2:X3:415:GLU:OE2	2.08	0.69
2:Y5:72:PRO:HG3	1:Y6:1:MET:HG2	1.74	0.69
2:Z1:336:LYS:O	2:Z1:339:ARG:NH2	2.26	0.69
2:Z3:392:ASP:OD2	2:Z3:422:ARG:NH1	2.25	0.69
1:0A:396:HIS:HA	1:0A:399:THR:HG22	1.73	0.69
1:0G:68:LEU:HB3	1:0G:96:GLY:HA2	1.75	0.69
2:1V:399:TYR:O	2:1V:402:ARG:NH1	2.25	0.69
2:1X:213:CYS:HA	2:1X:217:LEU:HB2	1.74	0.69
1:2C:113:ILE:HA	1:2C:116:VAL:HG22	1.73	0.69
2:2F:123:ARG:HD2	38:8B:75:SER:HB3	1.73	0.69
1:3C:211:CYS:HA	1:3C:215:LEU:HB2	1.75	0.69
1:3I:77:ARG:NH2	3:3Z:19:LEU:HD23	2.07	0.69
1:3M:220:PRO:HD2	2:3N:326:LYS:HD3	1.74	0.69
15:5O:41:LYS:HZ2	15:5O:41:LYS:HB3	1.57	0.69
18:6A:5:VAL:CG1	18:6A:62:GLU:HG2	2.22	0.69
22:6M:180:SER:OG	22:6M:182:ASN:ND2	2.26	0.69
22:6O:108:ARG:NH2	24:6Z:284:THR:O	2.26	0.69
24:6T:606:ARG:O	24:6T:610:ILE:HG12	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:7D:78:ALA:HB3	26:7D:111:ASP:HB3	1.74	0.69
26:7E:78:ALA:HB3	26:7E:111:ASP:HB3	1.74	0.69
38:8A:91:GLN:HB3	38:8A:102:PHE:HE1	1.52	0.69
38:8D:166:GLU:OE1	38:8D:166:GLU:N	2.21	0.69
2:K1:79:ARG:NH1	2:K1:92:LEU:O	2.25	0.69
2:K1:255:PHE:HA	2:K1:259:LEU:HD13	1.74	0.69
2:M1:219:ILE:HG13	30:7K:261:PRO:HA	1.75	0.69
2:M9:27:GLU:OE1	2:M9:243:ARG:NH1	2.24	0.69
1:O2:248:ALA:HA	1:O2:252:LYS:HD2	1.75	0.69
1:T2:177:ASP:O	2:T3:352:LYS:HA	1.93	0.69
2:U1:213:CYS:HA	2:U1:217:LEU:HB2	1.73	0.69
1:U8:211:CYS:HA	1:U8:215:LEU:HB2	1.75	0.69
2:Z7:236:SER:OG	2:Z7:243:ARG:NH2	2.26	0.69
2:0B:233:GLN:NE2	2:0B:272:TYR:OH	2.26	0.69
2:1N:90:GLU:HB3	2:1N:121:ARG:HH22	1.58	0.69
2:1R:213:CYS:HA	2:1R:217:LEU:HB2	1.75	0.69
2:1T:108:TYR:O	2:1T:112:LYS:NZ	2.25	0.69
2:2L:14:ILE:HD11	2:2L:74:VAL:HG22	1.75	0.69
1:3A:282:ARG:HH21	1:3A:288:GLU:HG3	1.58	0.69
2:3N:56:THR:OG1	3:4D:33:GLY:O	2.10	0.69
1:3Q:77:ARG:HH12	3:4H:18:LYS:HB3	1.58	0.69
12:5F:271:LEU:HB3	12:5F:272:PRO:HD3	1.75	0.69
14:5N:28:ARG:HG2	14:5N:28:ARG:HH11	1.57	0.69
14:5N:208:TYR:CD2	14:5N:220:GLN:NE2	2.60	0.69
17:5S:181:LEU:HD23	17:5S:181:LEU:C	2.13	0.69
2:B7:278:ALA:HB3	18:6B:43:ASN:HD22	1.56	0.69
2:G7:195:LEU:HD21	2:G7:428:LEU:HD12	1.75	0.69
2:K1:172:TYR:CE2	2:K1:203:MET:HG3	2.28	0.69
1:O2:391:ARG:HB3	1:O2:391:ARG:NH2	2.08	0.69
2:T7:88:HIS:CG	2:T7:89:PRO:CD	2.75	0.69
1:W2:145:SER:OG	1:W2:188:SER:OG	2.10	0.69
1:W6:309:ARG:H	1:W6:372:THR:HG22	1.58	0.69
1:X0:29:GLY:HA3	8:4X:95:THR:HG22	1.74	0.69
2:X3:276:ILE:HG23	2:X3:280:LYS:HB2	1.75	0.69
2:0J:90:GLU:O	2:0J:121:ARG:NH1	2.26	0.69
2:1Z:9:ILE:HG22	2:1Z:146:GLY:HA2	1.74	0.69
1:2I:77:ARG:HH21	1:2I:90:PHE:HD2	1.39	0.69
2:2P:358:GLN:HE21	38:8A:214:HIS:H	1.41	0.69
2:3D:223:THR:HG23	2:3D:225:THR:H	1.58	0.69
2:3J:27:GLU:OE1	2:3J:243:ARG:NH1	2.26	0.69
5:4M:113:ALA:HB2	6:4O:336:GLN:HE22	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:5M:365:ARG:NH1	14:5M:377:ARG:NH1	2.40	0.69
15:5P:125:ILE:HG12	15:5P:159:VAL:HG22	1.75	0.69
18:6D:101:LYS:O	24:7A:178:ASN:ND2	2.25	0.69
22:6I:177:LEU:HB2	22:6I:183:ASN:HB2	1.75	0.69
24:6T:470:ILE:CD1	24:6T:485:PRO:HG2	2.22	0.69
24:6W:97:ARG:NH2	24:6W:99:TYR:OH	2.26	0.69
24:6X:130:MET:SD	24:6X:166:PHE:HZ	2.16	0.69
29:7J:126:LEU:HD13	30:7L:321:GLN:HB2	1.75	0.69
38:8A:91:GLN:CB	38:8A:102:PHE:CE1	2.70	0.69
1:1:379:LYS:NZ	3:3V:49:HIS:HD2	1.90	0.68
1:H2:276:ARG:HB2	24:6T:490:THR:CG2	2.22	0.68
2:K1:81:GLY:O	2:K1:84:ARG:NH1	2.25	0.68
1:K6:350:LYS:NZ	1:K6:351:SER:O	2.26	0.68
2:Q5:60:LYS:HE3	2:S1:283:HIS:CE1	2.25	0.68
1:U6:345:ILE:O	1:U6:348:ASN:ND2	2.26	0.68
1:Y0:260:PHE:HB2	1:Y0:263:LEU:HG	1.75	0.68
1:Y2:125:GLU:OE2	1:Y2:159:TYR:OH	2.11	0.68
1:0E:8:GLN:HE22	1:0E:63:ALA:HB1	1.58	0.68
1:0E:345:ILE:O	1:0E:348:ASN:ND2	2.25	0.68
2:0F:387:ILE:HD12	2:0F:390:ARG:HH22	1.56	0.68
2:0N:157:LEU:HD22	2:0N:166:LYS:HD3	1.75	0.68
2:0N:313:MET:HG3	2:0N:346:TRP:CZ3	2.27	0.68
1:0W:139:LEU:HD12	1:0W:170:VAL:HG22	1.75	0.68
1:1E:272:PRO:HB2	1:1E:282:ARG:HH12	1.56	0.68
2:1F:55:GLU:O	2:1V:285:GLN:NE2	2.25	0.68
2:1F:399:TYR:O	2:1F:402:ARG:NH1	2.26	0.68
2:1T:220:GLU:HG2	2:1T:221:ARG:HG3	1.73	0.68
1:2I:53:GLU:N	1:2I:53:GLU:OE1	2.26	0.68
1:2M:125:GLU:O	38:8C:3:ASN:ND2	2.23	0.68
14:5M:28:ARG:HG2	14:5M:28:ARG:HH11	1.57	0.68
14:5N:512:PHE:N	14:5N:512:PHE:CD1	2.59	0.68
15:5O:34:GLU:OE1	15:5O:35:VAL:N	2.26	0.68
15:5P:330:LEU:HD23	15:5P:330:LEU:C	2.14	0.68
24:6X:613:LYS:O	24:6X:617:ASP:HB2	1.93	0.68
24:6Z:378:TRP:O	24:6Z:382:ASN:ND2	2.26	0.68
26:7F:78:ALA:HB3	26:7F:111:ASP:HB3	1.75	0.68
1:5:245:GLN:HG2	26:7D:113:ARG:NH1	2.07	0.68
2:G1:345:ASP:N	2:G1:345:ASP:OD1	2.27	0.68
2:G5:90:GLU:HB3	2:G5:121:ARG:HH12	1.58	0.68
2:H7:97:GLU:OE2	1:H8:251:ARG:NH2	2.26	0.68
2:K9:90:GLU:HB3	2:K9:121:ARG:NH2	2.07	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M3:42:ILE:H	2:M3:42:ILE:CD1	1.92	0.68
2:M3:90:GLU:O	2:M3:121:ARG:NH1	2.27	0.68
2:N3:115:VAL:HB	2:N3:149:LEU:HD11	1.75	0.68
1:N8:178:THR:HG22	2:N9:352:LYS:HZ3	1.58	0.68
2:R5:264:ARG:NH1	2:R5:431:ASP:OD2	2.26	0.68
2:R7:62:VAL:HG21	2:R7:88:HIS:HB2	1.73	0.68
2:U1:336:LYS:O	2:U1:339:ARG:NH2	2.25	0.68
1:U2:345:ILE:O	1:U2:348:ASN:ND2	2.26	0.68
1:W8:56:GLY:HA2	8:4W:395:ARG:HD2	1.74	0.68
1:Y6:135:VAL:HG11	1:Y6:152:ILE:HD11	1.75	0.68
1:0E:45:GLU:HG3	1:0E:46:ARG:HG2	1.75	0.68
2:2H:286:LEU:O	2:2H:373:ARG:NH1	2.26	0.68
1:2I:121:ARG:NH1	38:8C:99:THR:HA	2.08	0.68
1:2S:304:ASP:OD2	38:8A:45:SER:OG	2.06	0.68
2:3B:287:SER:N	2:3B:290:GLU:OE2	2.25	0.68
1:3S:276:ARG:NH2	17:5V:223:GLU:OE2	2.24	0.68
8:4W:463:THR:HG21	8:4X:128:LEU:HD12	1.74	0.68
14:5L:28:ARG:HH11	14:5L:28:ARG:HG2	1.57	0.68
15:5O:296:SER:O	15:5O:299:GLU:CG	2.31	0.68
24:6V:107:VAL:HG22	24:6V:108:GLU:H	1.57	0.68
1:B8:358:PRO:O	18:6B:22:ARG:NH2	2.25	0.68
2:G7:85:GLN:OE1	2:G7:85:GLN:HA	1.92	0.68
2:J7:282:TYR:CD1	5:4M:209:LEU:HD22	2.25	0.68
2:N1:88:HIS:O	1:08:281:TYR:OH	2.11	0.68
2:N3:207:GLU:HB3	2:N3:304:LYS:HG3	1.74	0.68
2:O1:69:ASP:OD1	2:O1:70:LEU:N	2.26	0.68
1:P4:320:ARG:HG2	1:P4:355:ASP:HB2	1.75	0.68
2:T1:327:ASP:OD2	7:4U:25:ARG:NH1	2.20	0.68
1:U4:375:GLN:HB3	1:U4:422:TYR:HD2	1.59	0.68
2:U9:287:SER:OG	2:U9:290:GLU:OE1	2.11	0.68
1:X2:68:LEU:HB3	1:X2:96:GLY:HA2	1.75	0.68
2:0V:9:ILE:HG22	2:0V:146:GLY:HA2	1.75	0.68
2:0V:399:TYR:O	2:0V:402:ARG:NH1	2.26	0.68
2:1X:275:ILE:HD12	2:1X:368:LEU:HD11	1.76	0.68
1:2I:125:GLU:O	38:8B:3:ASN:ND2	2.24	0.68
1:2U:212:PHE:CZ	2:2V:326:LYS:HD3	2.28	0.68
1:3Q:183:TYR:HE2	1:3Q:394:PHE:HB2	1.59	0.68
24:6X:95:VAL:HG12	24:6X:124:TYR:CD2	2.28	0.68
24:6X:566:VAL:HG21	24:6X:633:LEU:HD21	1.74	0.68
38:8A:12:LEU:HB3	38:8A:18:VAL:HG21	1.74	0.68
2:8:33:ASP:HB3	18:6A:77:THR:HG21	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E2:219:THR:N	24:6U:312:ASN:OD1	2.15	0.68
1:H2:330:MET:HB3	1:H2:349:VAL:HG11	1.76	0.68
1:J8:41:ASP:H	29:7J:388:MET:HB2	1.59	0.68
1:Q0:334:GLN:HE22	1:Q0:348:ASN:H	1.40	0.68
2:T5:334:THR:HG22	13:5J:134:PHE:H	1.57	0.68
2:X5:56:THR:HG22	2:Z1:285:GLN:HB2	1.74	0.68
2:Y3:282:TYR:CE2	8:4W:373:ASN:HB3	2.25	0.68
1:Z0:389:PHE:O	1:Z0:392:LYS:NZ	2.22	0.68
1:Z4:248:ALA:HA	1:Z4:252:LYS:HD3	1.75	0.68
2:0X:132:LEU:HD22	2:0X:164:LYS:HD3	1.74	0.68
2:1D:278:ALA:HA	2:1D:369:ALA:HB2	1.76	0.68
1:1Q:350:LYS:NZ	1:1Q:351:SER:O	2.27	0.68
2:2R:88:HIS:HB3	2:3H:283:HIS:ND1	2.09	0.68
1:2S:52:ASN:OD1	1:2S:62:ARG:NH2	2.27	0.68
2:C5:79:ARG:NH2	22:6J:19:GLY:O	2.24	0.68
2:I7:88:HIS:HB3	2:K3:283:HIS:ND1	2.09	0.68
2:M5:76:ASP:OD2	1:M6:46:ARG:NH2	2.27	0.68
1:P6:257:LEU:HD21	1:P6:314:SER:HB3	1.75	0.68
2:Q3:88:HIS:CD2	2:Q3:89:PRO:CD	2.76	0.68
1:Q6:45:GLU:HG2	1:Q6:46:ARG:HG2	1.74	0.68
1:Q6:375:GLN:HB2	1:Q6:419:VAL:HG13	1.76	0.68
1:R4:345:ILE:O	1:R4:348:ASN:ND2	2.27	0.68
2:S9:414:GLU:N	2:S9:414:GLU:OE1	2.25	0.68
1:W2:140:GLY:O	1:W2:184:ASN:ND2	2.24	0.68
1:Y0:113:ILE:HA	1:Y0:116:VAL:HG12	1.75	0.68
2:Z3:191:THR:HA	2:Z3:194:LEU:HB3	1.74	0.68
1:2C:173:PRO:HD2	1:2C:380:ARG:HE	1.58	0.68
2:3B:392:ASP:OD2	2:3B:422:ARG:NH1	2.27	0.68
1:3G:34:GLY:O	1:3G:58:ARG:HA	1.94	0.68
12:5F:281:VAL:HG23	12:5F:286:SER:HA	1.76	0.68
15:5O:324:ARG:NH1	15:5O:360:ASP:O	2.25	0.68
17:5T:181:LEU:HD23	17:5T:181:LEU:C	2.14	0.68
29:7J:265:VAL:HG12	29:7J:266:MET:H	1.58	0.68
2:D5:279:GLU:OE2	18:6C:178:GLN:NE2	2.27	0.68
1:D6:45:GLU:OE1	22:6O:20:TYR:OH	2.09	0.68
1:G2:32:PRO:HD2	24:6W:527:ASN:HD22	1.58	0.68
2:I5:79:ARG:NH1	2:I5:92:LEU:O	2.26	0.68
2:J9:381:SER:OG	2:J9:382:THR:N	2.26	0.68
2:K1:172:TYR:N	2:K1:204:LEU:O	2.25	0.68
2:L9:336:LYS:O	2:L9:339:ARG:NH2	2.25	0.68
2:M5:287:SER:N	2:M5:290:GLU:OE2	2.19	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O6:276:ARG:NH1	32:7P:97:LEU:O	2.27	0.68
1:P4:19:LYS:NZ	27:7G:177:GLU:OE2	2.27	0.68
2:P5:42:ILE:CD1	27:7G:213:TRP:HZ3	2.02	0.68
1:Q0:216:LYS:NZ	5:4M:42:GLU:OE2	2.23	0.68
1:R8:5:VAL:HG23	1:R8:62:ARG:HG2	1.74	0.68
1:T4:248:ALA:HA	1:T4:252:LYS:HD2	1.74	0.68
1:U8:67:ASP:OD2	1:U8:72:THR:OG1	2.09	0.68
1:W8:149:THR:HA	1:W8:152:ILE:HD12	1.75	0.68
2:Y9:136:LEU:HD11	2:Y9:235:ILE:HD11	1.75	0.68
1:Z0:207:LEU:HB3	1:Z0:225:LEU:HD22	1.76	0.68
2:Z9:268:MET:SD	2:Z9:380:ASN:HB2	2.33	0.68
1:0G:58:ARG:HH11	1:0W:281:TYR:HE1	1.42	0.68
2:1L:387:ILE:HG12	2:1L:390:ARG:HH22	1.58	0.68
2:2V:33:ASP:O	2:2V:60:LYS:NZ	2.27	0.68
2:3D:297:GLU:HG3	2:3D:299:ALA:H	1.58	0.68
2:3L:189:LEU:HD11	2:3L:418:PHE:HE1	1.58	0.68
2:3P:339:ARG:NH2	2:3P:342:GLN:HB3	2.08	0.68
15:5O:34:GLU:CG	15:5O:49:ARG:NH2	2.52	0.68
19:6E:72:GLU:HG2	19:6E:77:GLN:HE21	1.59	0.68
2:G3:90:GLU:CB	2:G3:121:ARG:HH12	2.06	0.68
2:H3:317:LEU:HB3	2:H3:319:TYR:HE1	1.57	0.68
2:H5:27:GLU:OE1	2:H5:243:ARG:NH1	2.27	0.68
2:I5:88:HIS:HB3	2:K1:283:HIS:CE1	2.29	0.68
2:J7:255:PHE:HA	2:J7:259:LEU:HD13	1.76	0.68
2:L3:297:GLU:HG2	2:L3:299:ALA:H	1.58	0.68
1:M2:324:LYS:HD2	1:M2:328:GLU:OE1	1.94	0.68
2:M3:36:MET:CG	2:M3:37:PRO:CD	2.66	0.68
1:M6:86:ARG:HB3	2:O3:283:HIS:CE1	2.29	0.68
1:N0:276:ARG:HH12	30:7L:366:PRO:HB3	1.58	0.68
2:O1:90:GLU:HB2	2:O1:121:ARG:HH12	1.58	0.68
2:O3:90:GLU:HB3	2:O3:121:ARG:NH2	2.08	0.68
2:R5:117:LEU:O	2:R5:121:ARG:HG2	1.94	0.68
2:R5:287:SER:N	2:R5:290:GLU:OE2	2.27	0.68
2:S1:274:PRO:HB2	2:S1:276:ILE:HG12	1.76	0.68
1:U4:412:GLU:OE2	1:U4:416:ASN:ND2	2.27	0.68
2:V9:91:GLN:HE22	2:X5:283:HIS:CE1	2.12	0.68
1:W6:211:CYS:HA	1:W6:215:LEU:HB2	1.76	0.68
2:W9:224:TYR:H	1:X0:245:GLN:NE2	1.92	0.68
2:X7:136:LEU:HD22	2:X7:167:LEU:HB2	1.76	0.68
1:Z6:273:LEU:H	1:Z6:292:GLN:HE22	1.42	0.68
1:0G:211:CYS:HA	1:0G:215:LEU:HB2	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0M:139:LEU:HD12	1:0M:170:VAL:HG12	1.74	0.68
1:2A:220:PRO:HD2	2:2B:326:LYS:HD2	1.74	0.68
1:2M:309:ARG:NH1	1:2M:341:PHE:O	2.26	0.68
1:2Q:320:ARG:HH22	38:8A:198:THR:CA	2.05	0.68
7:4R:5:VAL:HG23	12:7B:15:THR:HG21	1.76	0.68
7:4R:301:ARG:HH21	7:4R:301:ARG:CG	1.93	0.68
11:5E:211:LEU:HD23	11:5E:233:ILE:HG12	1.75	0.68
14:5N:456:ARG:NE	14:5N:456:ARG:HA	2.08	0.68
15:5O:289:LEU:H	15:5O:290:PRO:HD2	1.58	0.68
24:6W:107:VAL:HG22	24:6W:108:GLU:H	1.58	0.68
24:6Z:469:PHE:HA	24:6Z:485:PRO:HD2	1.75	0.68
26:7F:106:ASP:OD1	26:7F:107:MET:N	2.26	0.68
34:7R:269:TRP:HB3	35:7T:223:PHE:CE2	2.28	0.68
2:A8:229:ARG:NH2	18:5X:50:SER:OG	2.26	0.68
2:G9:264:ARG:NH2	2:G9:431:ASP:OD2	2.27	0.68
1:J8:375:GLN:HB2	1:J8:419:VAL:HG23	1.76	0.68
2:K3:377:MET:SD	2:K3:379:SER:OG	2.45	0.68
2:R9:85:GLN:NE2	33:7Q:171:GLN:O	2.27	0.68
2:X7:344:VAL:HG22	2:X7:346:TRP:H	1.58	0.68
2:Y1:88:HIS:HB3	2:Z7:283:HIS:CE1	2.29	0.68
2:Y5:9:ILE:HG22	2:Y5:146:GLY:HA2	1.74	0.68
1:0A:5:VAL:HG22	1:0A:62:ARG:HD3	1.74	0.68
1:1E:248:ALA:CA	1:1E:252:LYS:HD3	2.22	0.68
14:5L:456:ARG:NE	14:5L:456:ARG:HA	2.08	0.68
14:5L:491:GLY:HA2	14:5L:511:THR:O	1.94	0.68
14:5N:146:ASN:HD21	14:5N:172:ASN:HD21	1.38	0.68
15:5P:52:TYR:CD2	15:5P:54:GLU:HB3	2.29	0.68
17:5U:174:SER:OG	17:5U:175:PRO:HD2	1.94	0.68
22:6O:333:MET:HG3	22:6O:334:THR:HG23	1.76	0.68
24:7A:122:TYR:HB2	24:7A:131:HIS:HB3	1.74	0.68
26:7D:21:THR:HG21	26:7D:120:ALA:HA	1.76	0.68
26:7E:21:THR:HG21	26:7E:120:ALA:HA	1.76	0.68
31:7N:5:GLY:O	31:7N:9:ARG:NH1	2.27	0.68
1:I4:31:ASP:OD1	28:7X:311:ARG:NH2	2.26	0.68
2:M3:42:ILE:HD12	2:M3:42:ILE:N	2.01	0.68
1:N2:113:ILE:HA	1:N2:116:VAL:HG22	1.76	0.68
2:O7:313:MET:CE	2:O7:346:TRP:CH2	2.77	0.68
2:P7:9:ILE:HG13	2:P7:139:ASN:HB3	1.75	0.68
1:V8:334:GLN:HE22	1:V8:348:ASN:H	1.41	0.68
1:Z4:117:LEU:HD11	1:Z4:154:LYS:HD3	1.75	0.68
1:2E:125:GLU:OE2	1:2E:159:TYR:OH	2.11	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2H:98:ASP:OD1	2:2H:99:ALA:N	2.27	0.68
2:2N:27:GLU:OE1	2:2N:243:ARG:NH1	2.26	0.68
1:2Q:3:GLU:HB2	1:2Q:130:LEU:HA	1.76	0.68
2:2X:214:ARG:NH1	38:8B:17:GLY:O	2.27	0.68
2:3B:42:ILE:HD11	14:5N:139:ALA:CB	2.23	0.68
1:3C:139:LEU:HD12	1:3C:170:VAL:HG12	1.74	0.68
2:3H:221:ARG:NH1	23:6Q:70:THR:O	2.24	0.68
1:3Q:220:PRO:HD2	2:3R:326:LYS:HD3	1.76	0.68
1:3S:2:ARG:HE	1:3S:240:LEU:HD22	1.58	0.68
14:5M:456:ARG:NE	14:5M:456:ARG:HA	2.08	0.68
15:5O:173:ARG:NH1	15:5O:207:GLY:O	2.27	0.68
15:5P:338:LEU:HD12	15:5P:338:LEU:C	2.15	0.68
24:6U:469:PHE:CB	24:6U:484:GLU:HA	2.24	0.68
2:A8:59:GLY:HA3	24:6T:263:ARG:HH11	1.58	0.68
2:G7:182:VAL:HG23	2:G7:186:ASN:HD21	1.59	0.68
2:I1:9:ILE:HG13	2:I1:139:ASN:HB3	1.76	0.68
1:K4:113:ILE:HA	1:K4:116:VAL:HG22	1.76	0.68
2:K5:219:ILE:HG23	29:7I:14:LEU:HD11	0.72	0.68
1:M4:113:ILE:HG12	1:M4:117:LEU:HD23	1.76	0.68
2:N3:370:LYS:NZ	30:7L:274:PRO:O	2.23	0.68
2:O1:286:LEU:O	2:O1:373:ARG:NH1	2.27	0.68
2:O7:91:GLN:HA	2:O7:121:ARG:HH12	1.59	0.68
1:T8:333:VAL:HG12	13:5K:102:ALA:HB3	1.75	0.68
1:V8:183:TYR:HB3	1:V8:398:TYR:HE2	1.59	0.68
1:X6:250:LEU:HD12	1:X6:250:LEU:H	1.59	0.68
2:Y3:90:GLU:HB3	2:Y3:121:ARG:HH22	1.58	0.68
1:Z8:45:GLU:HG3	1:Z8:46:ARG:HG2	1.76	0.68
1:0O:175:VAL:HG22	2:0P:329:ASN:HD21	1.58	0.68
2:0P:239:THR:HG23	2:0P:243:ARG:HE	1.59	0.68
1:0Y:309:ARG:NH1	1:0Y:339:SER:O	2.27	0.68
2:1F:336:LYS:O	2:1F:339:ARG:NH2	2.26	0.68
1:1K:309:ARG:H	1:1K:372:THR:HG22	1.58	0.68
1:1O:345:ILE:O	1:1O:348:ASN:ND2	2.26	0.68
2:2F:88:HIS:HB3	2:2V:283:HIS:ND1	2.09	0.68
2:2N:120:ASP:HB3	38:8D:73:TRP:CG	2.29	0.68
2:2Z:121:ARG:CG	2:2Z:121:ARG:NH1	2.55	0.68
1:3Q:2:ARG:HE	1:3Q:240:LEU:HD22	1.59	0.68
14:5L:115:GLU:O	14:5L:134:VAL:HG12	1.91	0.68
14:5M:146:ASN:HD21	14:5M:172:ASN:HD21	1.38	0.68
14:5N:415:LYS:HG2	23:6S:23:ILE:HD11	1.75	0.68
15:5O:376:LEU:N	15:5O:377:PRO:HD2	2.09	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:6X:444:ILE:O	24:6X:445:ILE:HD12	1.94	0.68
24:6X:451:LYS:CE	24:6X:468:ARG:HH12	1.98	0.68
31:7M:20:ILE:HD11	31:7M:23:LEU:HD12	1.76	0.68
1:I0:218:THR:CB	24:6X:489:ASN:H	2.07	0.67
2:L7:55:GLU:O	2:N3:285:GLN:NE2	2.26	0.67
2:M7:51:THR:HG21	2:M7:243:ARG:HG2	1.76	0.67
2:Q3:56:THR:CG2	2:Q3:60:LYS:HB3	2.22	0.67
1:R6:293:MET:HE1	1:R6:317:PHE:HE1	1.58	0.67
2:X7:276:ILE:HG23	2:X7:280:LYS:HB2	1.75	0.67
1:0A:190:HIS:CD2	1:0A:411:ALA:HA	2.29	0.67
1:0U:77:ARG:O	1:0U:83:GLN:NE2	2.26	0.67
1:1E:273:LEU:H	1:1E:292:GLN:HE22	1.42	0.67
2:1T:88:HIS:HB3	2:2J:283:HIS:ND1	2.09	0.67
2:1X:224:TYR:HA	2:1X:227:LEU:HD12	1.75	0.67
2:2D:88:HIS:CE1	2:2T:283:HIS:HA	2.29	0.67
1:2S:337:ASN:OD1	38:8A:53:ALA:N	2.23	0.67
1:3C:245:GLN:HE21	38:8D:198:THR:HG21	1.59	0.67
2:3F:336:LYS:O	2:3F:339:ARG:NH2	2.26	0.67
2:3T:289:ALA:O	2:3T:293:ASN:ND2	2.27	0.67
3:3X:38:THR:HG21	4:3Y:3:LYS:HB2	1.75	0.67
14:5L:146:ASN:HD21	14:5L:172:ASN:HD21	1.38	0.67
20:6F:27:LEU:CD1	30:7K:3:LEU:HD12	2.23	0.67
24:6X:130:MET:HE1	24:6X:161:PHE:CG	2.30	0.67
26:7D:106:ASP:OD1	26:7D:107:MET:N	2.26	0.67
2:J7:80:THR:HB	29:7J:390:LEU:CG	2.24	0.67
1:L6:99:ASN:ND2	2:L7:254:GLU:OE1	2.27	0.67
2:N5:88:HIS:CD2	2:N5:89:PRO:HD2	2.30	0.67
2:P3:308:ARG:NH1	2:U1:282:TYR:OH	2.23	0.67
2:P5:264:ARG:NH2	2:P5:431:ASP:OD2	2.27	0.67
2:S7:42:ILE:HG13	2:S7:43:GLY:N	2.09	0.67
2:S7:286:LEU:O	2:S7:373:ARG:NH1	2.27	0.67
2:T3:90:GLU:OE2	2:T3:90:GLU:HA	1.93	0.67
1:T4:190:HIS:HD2	1:T4:414:ASN:HD22	1.41	0.67
1:V0:52:ASN:OD1	1:V0:62:ARG:NH2	2.27	0.67
1:V4:5:VAL:HG23	1:V4:62:ARG:HG2	1.75	0.67
2:V7:75:VAL:HG21	2:V7:94:SER:HB3	1.75	0.67
2:X3:88:HIS:HB3	2:Y9:283:HIS:ND1	2.08	0.67
1:Y8:327:ASP:HA	1:Y8:330:MET:HE1	1.76	0.67
2:Z9:53:PHE:HB3	2:Z9:61:HIS:HB3	1.75	0.67
1:0A:16:ILE:HD11	1:0A:136:CYS:HB2	1.76	0.67
2:0B:191:THR:HA	2:0B:194:LEU:HB3	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0C:52:ASN:OD1	1:0C:62:ARG:NH2	2.28	0.67
2:0H:203:MET:HE1	2:0H:267:PHE:HB3	1.76	0.67
2:0R:100:ALA:HA	1:0S:252:LYS:HE2	1.76	0.67
2:0R:183:GLU:HG3	2:0R:184:PRO:HD3	1.75	0.67
1:0U:289:LEU:HD21	1:0U:365:ALA:HB3	1.75	0.67
1:0Y:4:ILE:HB	1:0Y:50:TYR:HE1	1.57	0.67
2:2H:279:GLU:OE1	10:5B:167:ILE:CG1	2.42	0.67
2:2Z:214:ARG:HH22	38:8C:61:LYS:HA	1.58	0.67
2:2Z:339:ARG:NH2	38:8C:77:LYS:O	2.26	0.67
2:3D:164:LYS:O	2:3D:166:LYS:NZ	2.28	0.67
2:3F:399:TYR:OH	2:3F:415:GLU:OE2	2.06	0.67
7:4R:8:VAL:CG2	7:4R:9:PRO:HD2	2.24	0.67
14:5L:598:ILE:HA	14:5L:614:GLY:HA2	1.75	0.67
14:5N:5:LEU:HB3	14:5N:590:VAL:HB	1.77	0.67
26:7E:106:ASP:OD1	26:7E:107:MET:N	2.26	0.67
32:7P:93:VAL:HG13	32:7P:94:LYS:H	1.59	0.67
2:F9:206:ASN:OD1	41:G0:501:GTP:N2	2.26	0.67
2:M7:36:MET:HG3	2:M7:42:ILE:HG12	1.76	0.67
2:M9:279:GLU:H	2:M9:279:GLU:CD	1.97	0.67
1:N0:128:ASP:O	20:6F:2:ARG:NH2	2.27	0.67
2:N5:244:PHE:HB2	2:N5:356:ASN:HD21	1.59	0.67
1:S4:274:THR:HG21	1:S4:282:ARG:HD2	1.75	0.67
1:U2:418:LEU:HG	1:U2:422:TYR:HE2	1.59	0.67
1:U4:52:ASN:OD1	1:U4:62:ARG:NH2	2.25	0.67
2:U5:275:ILE:HG13	2:U5:368:LEU:HD11	1.77	0.67
2:V7:267:PHE:HB2	2:V7:384:ILE:HD12	1.73	0.67
1:W2:139:LEU:HD12	1:W2:170:VAL:HG12	1.76	0.67
2:X5:223:THR:HG23	2:X5:225:THR:H	1.59	0.67
1:0M:45:GLU:HG3	1:0M:46:ARG:HG2	1.76	0.67
1:1C:139:LEU:HD12	1:1C:170:VAL:HG22	1.75	0.67
1:1C:180:VAL:HG23	1:1C:184:ASN:HD21	1.59	0.67
2:1V:121:ARG:HD2	2:1V:121:ARG:C	2.14	0.67
1:2A:121:ARG:NH1	38:8A:100:SER:OG	2.27	0.67
2:2N:116:ASP:HB2	38:8D:73:TRP:CZ3	2.29	0.67
2:2N:213:CYS:HA	2:2N:217:LEU:HB3	1.75	0.67
1:3Q:69:GLU:C	1:3Q:92:PHE:HZ	1.98	0.67
2:3T:425:LEU:HD23	2:3T:425:LEU:C	2.14	0.67
14:5L:514:LYS:HD3	14:5L:557:ASN:HB3	1.76	0.67
14:5M:598:ILE:HA	14:5M:614:GLY:HA2	1.76	0.67
14:5N:208:TYR:HB3	14:5N:220:GLN:HE21	1.56	0.67
15:5O:60:LEU:C	15:5O:60:LEU:HD12	2.15	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:5O:296:SER:HA	15:5O:299:GLU:CG	2.24	0.67
22:6I:110:ILE:O	22:6I:113:ARG:NH1	2.27	0.67
22:6P:266:LYS:HA	22:6P:269:GLU:HG3	1.76	0.67
29:7J:435:THR:HG22	29:7J:437:PHE:H	1.59	0.67
38:8B:25:ILE:HD13	38:8B:25:ILE:C	2.14	0.67
2:H7:90:GLU:O	2:H7:121:ARG:NH1	2.26	0.67
1:H8:156:ARG:NH1	1:H8:197:ASP:OD1	2.27	0.67
2:J3:264:ARG:NH2	2:J3:431:ASP:OD2	2.27	0.67
2:K7:336:LYS:O	2:K7:339:ARG:NH2	2.27	0.67
1:M2:67:ASP:OD2	1:M2:72:THR:OG1	2.13	0.67
2:N9:122:ILE:HD12	2:N9:157:LEU:HD21	1.76	0.67
1:O0:358:PRO:HG2	1:O0:361:LEU:HD12	1.76	0.67
1:Q2:68:LEU:HB3	1:Q2:96:GLY:HA2	1.75	0.67
1:Q6:1:MET:N	1:Q6:3:GLU:OE2	2.27	0.67
2:S1:90:GLU:HB3	2:S1:121:ARG:HH22	1.58	0.67
1:W4:334:GLN:HE22	1:W4:348:ASN:H	1.41	0.67
2:0F:288:VAL:HG13	2:0F:319:TYR:HE2	1.59	0.67
1:0O:273:LEU:H	1:0O:292:GLN:HE22	1.40	0.67
1:1A:200:MET:HE3	1:1A:268:VAL:HG21	1.77	0.67
2:1B:340:THR:HG23	2:1B:341:ILE:HD12	1.76	0.67
1:1C:334:GLN:HE22	1:1C:348:ASN:H	1.41	0.67
1:1S:335:ASN:O	1:1S:338:SER:OG	2.12	0.67
2:2L:113:GLU:HG2	38:8C:7:ASP:HA	1.75	0.67
2:2P:417:GLU:HA	2:2P:420:GLU:HG2	1.76	0.67
1:2U:51:PHE:HB3	1:2U:59:TYR:HB3	1.77	0.67
1:3Q:232:VAL:HG22	1:3Q:270:PHE:HB2	1.76	0.67
2:3T:225:THR:HG22	2:3T:229:ARG:HE	1.59	0.67
5:4M:76:LEU:HD22	15:5P:284:VAL:HG12	1.76	0.67
14:5L:5:LEU:HB3	14:5L:590:VAL:HB	1.77	0.67
14:5M:5:LEU:HB3	14:5M:590:VAL:HB	1.77	0.67
14:5N:598:ILE:HA	14:5N:614:GLY:HA2	1.76	0.67
15:5P:331:ASP:OD2	15:5P:334:LEU:CD1	2.41	0.67
18:5Y:109:THR:OG1	18:5Y:110:GLU:OE2	2.10	0.67
20:6F:31:LEU:CD1	30:7K:8:LEU:HD12	2.23	0.67
22:6P:268:ASP:HA	22:6P:271:ARG:HG2	1.77	0.67
24:6Y:130:MET:HG3	24:6Y:153:VAL:HG12	1.77	0.67
2:I5:56:THR:HA	2:K1:285:GLN:HB2	1.76	0.67
2:N3:359:PRO:HD3	29:7J:90:GLY:HA3	1.75	0.67
2:O3:265:ILE:CD1	2:O3:435:VAL:HG21	2.24	0.67
1:P4:52:ASN:OD1	1:P4:62:ARG:NH2	2.27	0.67
2:P5:90:GLU:HB2	2:P5:121:ARG:HH12	1.57	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P5:90:GLU:HB3	2:P5:121:ARG:HH12	1.57	0.67
2:Q5:245:ASP:HB3	20:6F:263:LEU:HD21	1.76	0.67
2:T1:35:GLN:NE2	24:6W:83:THR:OG1	2.25	0.67
1:U8:3:GLU:HB3	1:U8:130:LEU:HA	1.75	0.67
2:Y3:88:HIS:HB3	2:Z9:283:HIS:CE1	2.30	0.67
2:Z9:392:ASP:OD2	2:Z9:422:ARG:NH1	2.28	0.67
1:0K:268:VAL:O	1:0K:300:MET:N	2.24	0.67
1:0Q:135:VAL:HG21	1:0Q:152:ILE:HD11	1.77	0.67
2:0V:387:ILE:HG12	2:0V:390:ARG:HH22	1.58	0.67
1:1C:350:LYS:NZ	1:1C:352:SER:OG	2.26	0.67
2:1F:250:VAL:HG23	2:1F:254:GLU:HG3	1.77	0.67
1:1G:379:LYS:HD3	1:1G:419:VAL:HG11	1.74	0.67
1:1O:67:ASP:OD2	1:1O:72:THR:OG1	2.11	0.67
1:1O:140:GLY:O	1:1O:184:ASN:ND2	2.27	0.67
2:1T:264:ARG:NH2	2:1T:431:ASP:OD2	2.26	0.67
1:2I:134:GLN:HE21	1:2I:167:PHE:HE2	1.41	0.67
2:2R:222:PRO:HD2	1:2S:324:LYS:HE3	1.77	0.67
7:4U:234:GLU:HG3	31:7N:15:LEU:HD21	1.75	0.67
11:5E:161:ARG:NH1	11:5E:195:GLN:OE1	2.28	0.67
14:5L:199:SER:HG	14:5L:245:THR:HG1	1.40	0.67
15:5P:243:LYS:NZ	15:5P:354:ASN:OD1	2.25	0.67
17:5V:224:ARG:HB3	17:5V:224:ARG:NH2	2.09	0.67
18:6A:109:THR:OG1	18:6A:110:GLU:OE2	2.10	0.67
18:6B:109:THR:OG1	18:6B:110:GLU:OE2	2.10	0.67
18:6C:109:THR:OG1	18:6C:110:GLU:OE2	2.10	0.67
22:6I:180:SER:OG	22:6I:182:ASN:ND2	2.27	0.67
24:6Z:354:ARG:HB2	24:6Z:357:LEU:HG	1.76	0.67
24:6Z:470:ILE:HD12	24:6Z:485:PRO:HD3	1.76	0.67
38:8A:182:ASN:HB3	38:8A:185:MET:HB2	1.76	0.67
2:B7:226:ASN:ND2	18:6B:51:MET:SD	2.67	0.67
1:D4:45:GLU:OE1	22:6N:20:TYR:OH	2.06	0.67
1:F6:32:PRO:HD2	24:6T:527:ASN:HD22	1.60	0.67
2:G5:288:VAL:HG11	2:G5:323:VAL:HG13	1.77	0.67
1:H8:309:ARG:H	1:H8:372:THR:HG22	1.58	0.67
2:L3:84:ARG:HD2	29:7J:319:ILE:HD11	1.75	0.67
2:N7:293:ASN:HD22	32:7O:18:SER:HB2	1.59	0.67
2:O3:236:SER:OG	2:O3:243:ARG:NH2	2.27	0.67
1:O6:177:ASP:O	2:O7:352:LYS:HA	1.94	0.67
2:R1:176:GLN:HE22	2:R1:304:LYS:HE2	1.58	0.67
1:R8:345:ILE:O	1:R8:348:ASN:ND2	2.28	0.67
2:S1:88:HIS:HD2	2:S1:89:PRO:CD	1.84	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S4:391:ARG:HD2	13:5H:55:VAL:HB	1.77	0.67
1:S6:135:VAL:HG11	1:S6:152:ILE:HD11	1.76	0.67
1:U8:45:GLU:HG3	1:U8:46:ARG:HG2	1.77	0.67
2:W3:287:SER:N	2:W3:290:GLU:OE2	2.23	0.67
1:X0:42:LEU:CG	8:4X:97:PHE:HZ	2.04	0.67
1:X8:207:LEU:HB3	1:X8:225:LEU:HD22	1.76	0.67
1:Z4:309:ARG:H	1:Z4:372:THR:HG22	1.60	0.67
1:0E:165:LEU:HD21	1:0E:250:LEU:HD11	1.76	0.67
2:0J:259:LEU:HB3	2:0J:268:MET:HE2	1.77	0.67
1:1C:270:PHE:HD2	1:1C:273:LEU:HD21	1.59	0.67
2:1V:88:HIS:CD2	2:1V:89:PRO:CD	2.73	0.67
1:2Y:56:GLY:CA	38:8C:161:GLN:HE21	2.07	0.67
2:3R:392:ASP:OD2	2:3R:422:ARG:NH1	2.27	0.67
15:5O:208:SER:CB	15:5O:217:GLU:OE1	2.43	0.67
18:5Z:109:THR:OG1	18:5Z:110:GLU:OE2	2.10	0.67
22:6K:170:ARG:NH2	22:6K:246:GLN:O	2.26	0.67
24:6X:517:LEU:HD12	24:6X:517:LEU:H	1.60	0.67
1:1:306:ARG:NH2	3:3V:60:PRO:O	2.26	0.67
1:3:337:ASN:ND2	3:3X:68:SER:HA	2.08	0.67
1:G2:134:GLN:HE21	1:G2:167:PHE:HE2	1.42	0.67
2:G3:282:TYR:OH	22:6M:134:ASN:ND2	2.27	0.67
1:I0:113:ILE:HA	1:I0:116:VAL:HG22	1.77	0.67
2:K1:287:SER:N	2:K1:290:GLU:OE2	2.28	0.67
1:K8:113:ILE:HA	1:K8:116:VAL:HG22	1.76	0.67
1:L4:178:THR:HG22	2:L5:352:LYS:HE2	1.76	0.67
1:M0:113:ILE:HA	1:M0:116:VAL:HG12	1.77	0.67
1:S4:139:LEU:HD12	1:S4:170:VAL:HG12	1.76	0.67
1:T0:333:VAL:HG22	13:5I:102:ALA:HB3	1.76	0.67
1:T2:92:PHE:CZ	24:6Y:33:LEU:HB3	2.29	0.67
1:T6:16:ILE:HD13	1:T6:229:ILE:HD13	1.77	0.67
1:X2:8:GLN:HG2	1:X2:17:GLY:HA3	1.77	0.67
2:X3:387:ILE:HD12	2:X3:390:ARG:HH22	1.59	0.67
1:Y8:202:LEU:HD23	1:Y8:229:ILE:CD1	2.25	0.67
2:Z7:338:LYS:NZ	2:Z7:340:THR:OG1	2.26	0.67
1:0U:392:LYS:HG3	1:0U:395:LEU:HD22	1.76	0.67
1:1U:211:CYS:HA	1:1U:215:LEU:HB2	1.76	0.67
2:2D:282:TYR:CE2	10:5A:380:ARG:HD3	2.28	0.67
2:2N:264:ARG:NH2	2:2N:431:ASP:OD2	2.28	0.67
1:3G:345:ILE:O	1:3G:348:ASN:ND2	2.25	0.67
6:4O:65:LYS:HB3	6:4O:66:ARG:HH21	1.60	0.67
18:6D:109:THR:OG1	18:6D:110:GLU:OE2	2.10	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:6H:37:ILE:HG13	21:6H:38:PRO:HD2	1.76	0.67
30:7K:6:GLN:OE1	30:7K:6:GLN:HA	1.95	0.67
2:F5:278:ALA:HB3	22:6I:215:GLY:HA2	1.77	0.67
2:F7:221:ARG:HG3	22:6J:178:GLY:HA2	1.76	0.67
2:H3:88:HIS:HB3	2:H3:91:GLN:HG2	1.76	0.67
2:H5:56:THR:HA	2:J1:285:GLN:HB2	1.77	0.67
1:J6:334:GLN:HE22	1:J6:348:ASN:H	1.43	0.67
2:M7:285:GLN:CG	30:7K:84:VAL:CG1	2.70	0.67
1:O0:52:ASN:OD1	1:O0:62:ARG:NH2	2.27	0.67
1:O6:67:ASP:OD2	1:O6:72:THR:OG1	2.13	0.67
1:S2:222:PHE:HB2	7:4R:367:ARG:HG2	1.76	0.67
2:T3:176:GLN:HE21	13:5J:90:PRO:HG3	1.60	0.67
1:T4:253:LEU:HD11	1:T4:316:LEU:HD21	1.76	0.67
1:T4:345:ILE:O	1:T4:348:ASN:ND2	2.28	0.67
1:U8:3:GLU:OE2	1:U8:62:ARG:NH1	2.28	0.67
1:V8:177:ASP:O	2:V9:352:LYS:HA	1.93	0.67
2:Z1:298:PRO:HA	2:Z1:301:MET:HG3	1.77	0.67
2:Z3:70:LEU:HG	2:Z3:145:THR:HG23	1.75	0.67
1:0A:122:LYS:O	1:0A:126:SER:OG	2.11	0.67
1:1S:178:THR:HG23	1:1S:181:GLU:HG3	1.76	0.67
2:1Z:195:LEU:HD21	2:1Z:264:ARG:HD2	1.76	0.67
2:2D:90:GLU:HB2	2:2D:121:ARG:HH22	1.59	0.67
2:2D:336:LYS:O	2:2D:339:ARG:NH2	2.27	0.67
2:2V:264:ARG:NH2	2:2V:431:ASP:OD2	2.28	0.67
2:3D:320:ARG:NH2	2:3D:358:GLN:OE1	2.27	0.67
2:3L:413:MET:HB3	2:3L:417:GLU:OE2	1.94	0.67
6:4P:29:GLU:OE1	6:4P:33:ARG:NE	2.28	0.67
18:5X:31:ASP:N	18:5X:31:ASP:OD2	2.27	0.67
24:6V:6:PRO:N	24:6V:7:PRO:HD3	2.10	0.67
24:6Z:130:MET:CE	24:6Z:174:ILE:HD11	2.25	0.67
29:7I:258:ARG:NE	30:7K:342:LEU:HD11	2.09	0.67
1:C4:1:MET:HG2	22:6I:21:THR:HG21	1.77	0.67
2:E5:282:TYR:HH	22:6K:81:ASN:CA	2.05	0.67
1:G2:112:LEU:HB3	1:G2:147:MET:HE3	1.77	0.67
1:H2:51:PHE:O	1:H2:62:ARG:NH2	2.27	0.67
2:H5:90:GLU:HG2	2:H5:121:ARG:HH12	1.59	0.67
2:I1:399:TYR:O	2:I1:402:ARG:NH1	2.26	0.67
1:J0:140:GLY:O	1:J0:184:ASN:ND2	2.27	0.67
1:J6:139:LEU:HD12	1:J6:170:VAL:HG12	1.75	0.67
1:J6:175:VAL:HG22	1:J6:205:GLU:HG3	1.76	0.67
2:J7:80:THR:CG2	29:7J:390:LEU:HD21	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J9:50:ASN:O	2:J9:64:ARG:NH2	2.18	0.67
2:L7:87:PHE:HB3	2:L7:92:LEU:HD11	1.77	0.67
2:M3:53:PHE:HB3	2:M3:61:HIS:HB3	1.77	0.67
2:N1:27:GLU:OE1	2:N1:243:ARG:NH1	2.28	0.67
2:O3:287:SER:N	2:O3:290:GLU:OE2	2.26	0.67
1:O4:274:THR:HG21	1:O4:282:ARG:HD2	1.75	0.67
2:Q5:417:GLU:HA	2:Q5:420:GLU:HG2	1.77	0.67
1:S4:220:PRO:HD2	2:S5:326:LYS:HG2	1.77	0.67
1:S6:227:HIS:CG	7:4T:241:PHE:HZ	2.12	0.67
1:S6:248:ALA:CA	1:S6:252:LYS:HD3	2.21	0.67
1:U8:52:ASN:OD1	1:U8:62:ARG:NH2	2.27	0.67
2:U9:353:CYS:SG	2:U9:354:GLY:N	2.68	0.67
2:W7:76:ASP:OD2	1:W8:46:ARG:NH2	2.27	0.67
1:X4:153:SER:HB3	1:X4:195:ASN:HD21	1.60	0.67
1:Y0:50:TYR:OH	1:Y0:237:THR:OG1	2.13	0.67
2:0V:176:GLN:HG2	2:0V:177:VAL:HG23	1.76	0.67
1:1A:350:LYS:NZ	1:1A:351:SER:O	2.27	0.67
1:1E:2:ARG:HB3	1:1E:131:GLN:HB2	1.77	0.67
1:1G:211:CYS:HA	1:1G:215:LEU:HB2	1.76	0.67
1:1K:377:MET:SD	1:1K:380:ARG:NH2	2.68	0.67
2:1P:90:GLU:HG2	2:1P:121:ARG:HH12	1.59	0.67
1:1Q:139:LEU:HD12	1:1Q:170:VAL:HG12	1.77	0.67
1:1U:175:VAL:HG12	2:1V:329:ASN:ND2	2.09	0.67
2:1X:34:GLY:HA3	2:1X:60:LYS:HZ2	1.59	0.67
2:2T:358:GLN:HE21	38:8B:214:HIS:H	1.42	0.67
1:2Y:306:ARG:CD	38:8C:96:GLY:CA	2.68	0.67
5:4M:294:SER:CA	28:7X:306:LEU:HD11	2.25	0.67
18:5X:109:THR:OG1	18:5X:110:GLU:OE2	2.10	0.67
21:6H:109:THR:HA	24:6X:82:ALA:HB3	1.77	0.67
22:6J:180:SER:OG	22:6J:182:ASN:ND2	2.28	0.67
24:6Y:613:LYS:O	24:6Y:617:ASP:HB2	1.95	0.67
1:E8:279:GLN:NE2	22:6M:103:ALA:O	2.27	0.67
2:H1:9:ILE:HG12	2:H1:68:LEU:HD11	1.77	0.67
1:K6:52:ASN:OD1	1:K6:62:ARG:NH2	2.28	0.67
1:M0:86:ARG:HB2	1:M0:89:ASN:HB2	1.75	0.67
2:O5:424:ASP:OD1	2:V1:339:ARG:NH2	2.28	0.67
1:P4:311:LEU:HD23	1:P4:312:THR:HG23	1.77	0.67
2:P9:417:GLU:HA	2:P9:420:GLU:HG3	1.77	0.67
1:Q4:375:GLN:HB2	1:Q4:419:VAL:HG13	1.77	0.67
2:R5:72:PRO:HG3	1:R6:1:MET:HG2	1.75	0.67
1:R6:244:GLY:H	1:R6:247:ASN:HD21	1.43	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R7:85:GLN:OE1	2:R7:85:GLN:HA	1.95	0.67
2:U5:287:SER:OG	2:U5:290:GLU:OE1	2.12	0.67
2:V3:217:LEU:HB3	2:V3:219:ILE:HD12	1.77	0.67
1:X2:257:LEU:HD12	1:X2:312:THR:HG23	1.76	0.67
1:X8:131:GLN:HE21	1:X8:250:LEU:HD13	1.59	0.67
1:Y8:2:ARG:HB3	1:Y8:131:GLN:HB2	1.75	0.67
1:Z6:122:LYS:HD2	1:0M:292:GLN:HE22	1.59	0.67
1:0Q:210:ILE:HD11	1:0Q:273:LEU:HD12	1.77	0.67
2:0R:387:ILE:HG12	2:0R:390:ARG:HH22	1.59	0.67
1:1M:45:GLU:HG2	1:1M:46:ARG:HG2	1.76	0.67
1:1M:309:ARG:H	1:1M:372:THR:HG22	1.60	0.67
1:1Q:387:ALA:HA	1:1Q:390:ARG:HH21	1.59	0.67
2:1Z:319:TYR:HB3	2:1Z:323:VAL:HG21	1.74	0.67
1:2U:219:THR:HB	2:2V:324:VAL:HG11	1.77	0.67
1:2Y:276:ARG:NH2	10:5C:409:ASN:OD1	2.27	0.67
2:3B:53:PHE:CD2	2:3B:61:HIS:HB3	2.30	0.67
5:4L:306:PHE:HA	5:4L:309:ARG:HD3	1.77	0.67
9:4Z:25:ARG:HB3	14:5L:540:TYR:HD1	1.59	0.67
9:4Z:245:ALA:O	9:4Z:248:GLU:HG3	1.95	0.67
14:5M:365:ARG:CZ	14:5M:377:ARG:NH1	2.58	0.67
18:5X:128:GLN:OE1	18:5X:128:GLN:N	2.19	0.67
24:6X:606:ARG:O	24:6X:610:ILE:HG13	1.95	0.67
24:6Y:95:VAL:H	24:6Y:187:PHE:HE2	1.43	0.67
2:G3:282:TYR:CE1	22:6M:133:PRO:HG2	2.29	0.66
2:G3:371:VAL:HG12	2:G3:373:ARG:H	1.59	0.66
2:J1:88:HIS:CG	2:K7:283:HIS:HA	2.30	0.66
2:K3:210:TYR:HE1	2:K3:227:LEU:HD11	1.61	0.66
2:K5:33:ASP:O	2:K5:60:LYS:NZ	2.27	0.66
1:K6:211:CYS:HA	1:K6:215:LEU:HB2	1.77	0.66
2:M5:58:ALA:HB1	37:7Y:214:ASP:HB3	1.76	0.66
1:O4:391:ARG:HD3	2:O5:346:TRP:CE2	2.30	0.66
2:O7:27:GLU:OE1	2:O7:243:ARG:NH1	2.28	0.66
2:S5:287:SER:N	2:S5:290:GLU:OE2	2.25	0.66
1:V8:282:ARG:NH2	1:V8:288:GLU:OE2	2.25	0.66
2:V9:267:PHE:HB2	2:V9:384:ILE:HD12	1.75	0.66
1:W0:334:GLN:HE22	1:W0:348:ASN:H	1.41	0.66
2:W5:255:PHE:HA	2:W5:259:LEU:HD13	1.76	0.66
2:W7:223:THR:OG1	1:W8:245:GLN:NE2	2.25	0.66
1:X2:273:LEU:H	1:X2:292:GLN:HE22	1.43	0.66
2:X7:203:MET:HE1	2:X7:387:ILE:HD13	1.76	0.66
2:Z5:114:ILE:HG21	2:Z5:149:LEU:HD22	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z7:56:THR:HA	2:0N:285:GLN:HG2	1.76	0.66
2:0V:217:LEU:HB3	2:0V:219:ILE:HG12	1.77	0.66
2:0X:108:TYR:O	2:0X:112:LYS:NZ	2.21	0.66
1:1A:204:ASN:HD21	39:1A:503:GDP:HN22	1.42	0.66
2:1L:121:ARG:HD2	2:1L:121:ARG:C	2.15	0.66
2:1T:33:ASP:O	2:1T:60:LYS:NZ	2.27	0.66
1:3C:45:GLU:HG3	1:3C:46:ARG:HG2	1.76	0.66
4:3W:35:LYS:NZ	3:3X:254:LYS:O	2.24	0.66
18:5Y:31:ASP:N	18:5Y:31:ASP:OD2	2.27	0.66
18:6A:31:ASP:N	18:6A:31:ASP:OD2	2.27	0.66
18:6D:31:ASP:N	18:6D:31:ASP:OD2	2.27	0.66
24:6T:525:VAL:HB	24:6T:530:PHE:HE2	1.60	0.66
30:7K:56:ARG:HG3	30:7K:58:SER:H	1.60	0.66
1:A3:44:LEU:HD21	18:6C:84:ARG:HH22	1.60	0.66
2:B7:145:THR:OG1	41:B7:501:GTP:O1B	2.12	0.66
2:D7:285:GLN:HE21	24:6Z:253:PRO:HG2	1.58	0.66
2:F5:55:GLU:O	2:H1:285:GLN:NE2	2.28	0.66
2:G3:176:GLN:HE22	2:G3:304:LYS:HE2	1.60	0.66
2:G5:9:ILE:HG21	2:G5:153:LEU:HD21	1.76	0.66
2:L9:413:MET:HB3	2:L9:417:GLU:OE2	1.95	0.66
1:M6:7:ILE:HB	1:M6:135:VAL:HG12	1.77	0.66
2:O3:32:PRO:HG3	19:6E:94:PRO:HD2	1.76	0.66
2:O9:26:LEU:HD21	2:O9:363:VAL:HG12	1.75	0.66
1:R2:173:PRO:HD2	1:R2:380:ARG:CZ	2.24	0.66
1:S2:173:PRO:HB3	1:S2:384:GLN:HE22	1.60	0.66
1:S2:190:HIS:CD2	1:S2:414:ASN:HD22	2.12	0.66
2:S9:176:GLN:HE21	13:5I:90:PRO:HG3	1.59	0.66
1:T4:390:ARG:HB3	1:T4:390:ARG:CZ	2.23	0.66
1:U4:190:HIS:CD2	1:U4:411:ALA:HA	2.30	0.66
2:U9:100:ALA:CA	1:V0:252:LYS:HG2	2.24	0.66
1:W6:207:LEU:HB3	1:W6:225:LEU:HD22	1.76	0.66
1:Z2:139:LEU:HD12	1:Z2:170:VAL:HG22	1.76	0.66
1:Z2:190:HIS:HD2	1:Z2:414:ASN:HB2	1.60	0.66
1:Z6:125:GLU:OE2	1:Z6:159:TYR:OH	2.12	0.66
2:0B:278:ALA:HA	2:0B:369:ALA:HB2	1.77	0.66
2:0Z:58:ALA:CA	9:4Z:165:ARG:CZ	2.69	0.66
1:1G:95:THR:OG1	1:1G:108:GLU:OE2	2.13	0.66
2:1Z:248:LEU:HD22	2:1Z:354:GLY:HA2	1.78	0.66
1:2G:311:LEU:HD23	1:2G:312:THR:HG23	1.77	0.66
1:3S:211:CYS:SG	1:3S:220:PRO:HB3	2.35	0.66
18:5Z:31:ASP:N	18:5Z:31:ASP:OD2	2.27	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:6B:31:ASP:N	18:6B:31:ASP:OD2	2.27	0.66
18:6C:31:ASP:N	18:6C:31:ASP:OD2	2.27	0.66
24:6W:97:ARG:H	24:6W:188:THR:HG21	1.59	0.66
24:6Z:525:VAL:HB	24:6Z:530:PHE:HE2	1.60	0.66
1:9:320:ARG:NH2	26:7E:111:ASP:OD2	2.28	0.66
1:B5:362:LYS:HE3	24:6X:108:GLU:HG3	1.77	0.66
2:E5:282:TYR:HH	22:6K:81:ASN:HA	1.60	0.66
2:I7:317:LEU:HB3	2:I7:319:TYR:HE1	1.60	0.66
1:L0:207:LEU:HB3	1:L0:225:LEU:HD22	1.76	0.66
2:N5:88:HIS:CE1	2:N5:90:GLU:CG	2.78	0.66
2:P3:88:HIS:CG	2:Q9:283:HIS:HB2	2.30	0.66
2:Q1:278:ALA:HA	2:Q1:369:ALA:HB2	1.77	0.66
1:Q6:224:ASP:OD1	1:Q6:225:LEU:N	2.28	0.66
1:S0:52:ASN:OD1	1:S0:62:ARG:NH2	2.28	0.66
1:S6:213:ARG:HH22	13:5H:117:ASN:ND2	1.92	0.66
2:S9:104:ALA:HB2	2:S9:413:MET:HG3	1.78	0.66
1:U2:248:ALA:HA	1:U2:252:LYS:HD2	1.75	0.66
2:W7:224:TYR:HB2	1:W8:245:GLN:HE21	1.59	0.66
1:X6:250:LEU:HA	1:X6:253:LEU:HD12	1.76	0.66
2:Y1:339:ARG:O	2:Y1:342:GLN:NE2	2.23	0.66
1:Y8:33:THR:O	1:Y8:58:ARG:NH2	2.29	0.66
2:Z1:202:VAL:HG22	2:Z1:268:MET:HB2	1.77	0.66
2:Z3:338:LYS:HG3	2:Z3:340:THR:HG22	1.77	0.66
1:Z4:2:ARG:HB3	1:Z4:131:GLN:HB2	1.77	0.66
2:Z7:7:ILE:HB	2:Z7:137:VAL:HG12	1.77	0.66
1:0A:139:LEU:HD12	1:0A:170:VAL:HG12	1.78	0.66
2:0N:88:HIS:HB3	2:1D:283:HIS:ND1	2.10	0.66
2:0R:108:TYR:O	2:0R:112:LYS:NZ	2.28	0.66
1:0W:55:THR:HG23	1:1M:282:ARG:O	1.94	0.66
2:1F:169:PHE:CE1	2:1F:235:ILE:HD11	2.30	0.66
1:2A:125:GLU:O	38:7Z:3:ASN:ND2	2.26	0.66
2:2B:26:LEU:HD21	10:5A:325:THR:HG23	1.78	0.66
2:2B:27:GLU:OE2	2:2B:243:ARG:NH1	2.28	0.66
1:2E:95:THR:HB	38:8B:83:ARG:NH1	2.10	0.66
2:2J:360:PRO:O	2:2J:370:LYS:NZ	2.27	0.66
1:3S:282:ARG:HH21	1:3S:288:GLU:HG2	1.60	0.66
3:3Z:38:THR:HA	3:3Z:126:GLU:OE2	1.95	0.66
3:4D:38:THR:HA	3:4D:126:GLU:OE2	1.95	0.66
5:4M:293:LEU:HD12	28:7X:305:ALA:HB3	1.75	0.66
7:4T:234:GLU:HG3	31:7M:15:LEU:HD21	1.78	0.66
14:5M:365:ARG:CZ	14:5M:377:ARG:HH11	2.08	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:6U:11:LEU:HB3	24:6U:12:PRO:HD2	1.76	0.66
24:6X:97:ARG:H	24:6X:188:THR:HG21	1.58	0.66
31:7N:75:PRO:HB2	31:7N:78:HIS:CD2	2.30	0.66
2:8:30:ILE:N	26:7E:45:MET:HE1	2.10	0.66
2:C5:285:GLN:HE21	24:6T:253:PRO:HG2	1.58	0.66
2:J9:392:ASP:OD2	2:J9:422:ARG:NH1	2.28	0.66
1:M8:48:ASN:HD22	19:6E:21:ILE:HB	1.59	0.66
1:O4:263:LEU:HD13	1:O4:422:TYR:HE1	1.60	0.66
2:P7:9:ILE:HG22	2:P7:68:LEU:HD11	1.78	0.66
1:Q0:273:LEU:H	1:Q0:292:GLN:HE22	1.42	0.66
2:S1:287:SER:N	2:S1:290:GLU:OE2	2.28	0.66
1:U4:334:GLN:HE22	1:U4:348:ASN:H	1.44	0.66
1:X0:52:ASN:OD1	1:X0:62:ARG:NH2	2.29	0.66
1:Y0:358:PRO:HG2	1:Y0:361:LEU:HB2	1.77	0.66
2:Y1:211:ASP:OD1	2:Y1:214:ARG:NH2	2.28	0.66
2:Y5:406:HIS:HA	2:Y5:409:VAL:HG12	1.78	0.66
1:Z2:165:LEU:HD11	1:Z2:200:MET:HE3	1.78	0.66
1:Z6:311:LEU:HD23	1:Z6:312:THR:HG23	1.78	0.66
1:0U:180:VAL:HG23	1:0U:184:ASN:HD21	1.60	0.66
1:1A:33:THR:O	1:1A:58:ARG:NH2	2.28	0.66
1:1E:211:CYS:HA	1:1E:215:LEU:HB2	1.78	0.66
1:1O:373:ALA:O	1:1O:376:GLU:HG2	1.95	0.66
1:1W:140:GLY:O	1:1W:184:ASN:ND2	2.28	0.66
2:2F:27:GLU:OE1	2:2F:243:ARG:NH1	2.28	0.66
1:3I:309:ARG:NH1	1:3I:339:SER:O	2.29	0.66
3:3V:38:THR:HA	3:3V:126:GLU:OE2	1.95	0.66
3:3X:28:ASN:ND2	3:3X:115:ASN:OD1	2.28	0.66
3:3Z:28:ASN:ND2	3:3Z:115:ASN:OD1	2.28	0.66
3:4B:28:ASN:ND2	3:4B:115:ASN:OD1	2.28	0.66
3:4D:28:ASN:ND2	3:4D:115:ASN:OD1	2.28	0.66
3:4D:200:ILE:O	3:4D:204:THR:OG1	2.14	0.66
3:4F:28:ASN:ND2	3:4F:115:ASN:OD1	2.28	0.66
3:4H:200:ILE:O	3:4H:204:THR:OG1	2.14	0.66
5:4M:293:LEU:HD12	28:7X:305:ALA:HB1	1.77	0.66
15:5O:169:ILE:HD11	15:5O:208:SER:O	1.95	0.66
15:5O:364:ASP:OD1	25:7C:80:ARG:NH1	2.28	0.66
15:5O:371:TYR:HD1	15:5O:375:ILE:HD12	1.59	0.66
38:8A:87:LYS:HD2	38:8A:87:LYS:C	2.16	0.66
1:A9:358:PRO:O	18:5X:22:ARG:NH2	2.29	0.66
2:E7:81:GLY:HA3	22:6M:116:TYR:HE2	1.61	0.66
2:H3:90:GLU:CB	2:H3:121:ARG:HH12	2.09	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H9:5:ILE:HG22	2:H9:64:ARG:HB3	1.77	0.66
2:J5:286:LEU:O	2:J5:373:ARG:NH1	2.27	0.66
1:K0:58:ARG:HG2	1:L6:280:GLN:HE22	1.61	0.66
2:L1:90:GLU:HB3	2:L1:121:ARG:HH12	1.60	0.66
1:M2:78:SER:HA	15:5O:48:LYS:HG3	1.78	0.66
1:M6:125:GLU:HG2	37:7Y:93:LYS:HG3	1.78	0.66
2:N9:69:ASP:OD1	2:N9:70:LEU:N	2.29	0.66
1:P6:301:CYS:SG	1:P6:302:ALA:N	2.68	0.66
1:Q8:172:SER:OG	1:Q8:380:ARG:NH2	2.29	0.66
1:R6:2:ARG:HB3	1:R6:131:GLN:HB2	1.76	0.66
1:S4:311:LEU:HD13	1:S4:342:VAL:HG21	1.77	0.66
1:T2:190:HIS:CD2	1:T2:411:ALA:HA	2.31	0.66
1:T6:92:PHE:CE1	24:7A:35:TYR:CE1	2.84	0.66
1:U4:248:ALA:HA	1:U4:252:LYS:HD2	1.76	0.66
2:U5:132:LEU:HD22	2:U5:164:LYS:HD3	1.75	0.66
2:W1:336:LYS:O	2:W1:339:ARG:NH2	2.28	0.66
1:Y4:244:GLY:HA2	1:Y4:355:ASP:HB2	1.78	0.66
2:Y9:100:ALA:HA	1:Z0:252:LYS:HE2	1.78	0.66
1:Z0:207:LEU:HD13	1:Z0:225:LEU:HB3	1.76	0.66
1:Z8:215:LEU:HD21	1:Z8:273:LEU:HD12	1.76	0.66
2:0N:344:VAL:HG13	2:0N:347:CYS:HB3	1.76	0.66
1:0W:207:LEU:HD11	1:0W:229:ILE:HD11	1.78	0.66
1:2E:68:LEU:HB3	1:2E:96:GLY:HA2	1.76	0.66
1:2E:113:ILE:HG12	1:2E:150:LEU:HD22	1.77	0.66
1:3M:7:ILE:HB	1:3M:135:VAL:HG12	1.77	0.66
1:3S:205:GLU:HA	1:3S:205:GLU:OE1	1.96	0.66
1:3S:377:MET:HA	1:3S:380:ARG:HD2	1.78	0.66
3:3V:28:ASN:ND2	3:3V:115:ASN:OD1	2.28	0.66
3:3V:46:ALA:HB1	3:3V:115:ASN:HB3	1.76	0.66
3:3V:200:ILE:O	3:3V:204:THR:OG1	2.14	0.66
3:3X:38:THR:HA	3:3X:126:GLU:OE2	1.95	0.66
3:3Z:200:ILE:O	3:3Z:204:THR:OG1	2.14	0.66
3:4B:38:THR:HA	3:4B:126:GLU:OE2	1.95	0.66
3:4F:38:THR:HA	3:4F:126:GLU:OE2	1.95	0.66
3:4H:28:ASN:ND2	3:4H:115:ASN:OD1	2.28	0.66
3:4H:38:THR:HA	3:4H:126:GLU:OE2	1.96	0.66
10:5B:257:GLN:HG3	10:5B:261:LYS:NZ	2.10	0.66
14:5N:127:ASN:HB2	38:8D:227:LYS:NZ	2.10	0.66
17:5V:224:ARG:HB3	17:5V:224:ARG:HH21	1.59	0.66
18:6A:5:VAL:O	18:6A:5:VAL:HG12	1.96	0.66
18:6D:128:GLN:OE1	18:6D:128:GLN:N	2.19	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:6P:135:ARG:O	24:6Z:436:HIS:NE2	2.28	0.66
24:6V:606:ARG:O	24:6V:610:ILE:HG13	1.95	0.66
27:7G:221:PRO:HG2	27:7G:224:GLU:HG3	1.77	0.66
34:7S:245:ARG:HA	34:7S:248:LYS:HE3	1.78	0.66
2:4:357:TYR:HB3	24:6U:150:ARG:HH12	1.60	0.66
1:7:337:ASN:HD21	3:4B:69:TYR:H	1.44	0.66
1:A3:285:THR:HG22	26:7F:74:VAL:HG11	1.75	0.66
1:D8:45:GLU:OE1	22:6P:20:TYR:OH	2.11	0.66
1:G2:67:ASP:OD2	1:G2:72:THR:OG1	2.08	0.66
1:G6:220:PRO:HD2	2:G7:326:LYS:HG2	1.77	0.66
2:H1:399:TYR:O	2:H1:402:ARG:NH1	2.29	0.66
2:H9:317:LEU:HD11	2:H9:351:PHE:HD2	1.60	0.66
2:I7:56:THR:HA	2:K3:285:GLN:HB2	1.78	0.66
2:I9:90:GLU:HB3	2:I9:121:ARG:HH22	1.61	0.66
1:L4:44:LEU:HD21	29:7J:339:GLN:OE1	1.95	0.66
1:L6:139:LEU:HD12	1:L6:170:VAL:HG12	1.77	0.66
2:L9:287:SER:N	2:L9:290:GLU:OE2	2.23	0.66
2:M3:233:GLN:NE2	2:M3:361:THR:O	2.29	0.66
2:N5:388:PHE:HB3	2:N5:425:LEU:HD11	1.76	0.66
2:O3:313:MET:SD	2:O3:346:TRP:CZ3	2.89	0.66
1:T2:174:LYS:HD3	13:5J:14:PHE:CD2	2.31	0.66
2:T3:222:PRO:HD2	1:T4:324:LYS:HD3	1.77	0.66
1:T6:77:ARG:NH2	24:7A:46:ALA:HB1	2.09	0.66
1:U6:273:LEU:H	1:U6:292:GLN:HE22	1.43	0.66
2:U7:213:CYS:HA	2:U7:217:LEU:HB2	1.78	0.66
2:U9:132:LEU:HD22	2:U9:164:LYS:HD3	1.76	0.66
2:V1:90:GLU:HG3	2:V1:121:ARG:HH11	1.60	0.66
1:X4:113:ILE:HA	1:X4:116:VAL:HG12	1.75	0.66
2:X9:88:HIS:HB3	2:Z5:283:HIS:CE1	2.31	0.66
2:Z5:336:LYS:O	2:Z5:339:ARG:NH2	2.29	0.66
1:0K:183:TYR:OH	1:0K:388:MET:HB3	1.95	0.66
2:0L:206:ASN:OD1	41:0M:501:GTP:N2	2.28	0.66
1:0W:397:TRP:HE1	2:0X:260:VAL:HG23	1.60	0.66
2:1B:278:ALA:HA	2:1B:369:ALA:HB2	1.78	0.66
1:1O:213:ARG:HE	1:1O:297:LYS:HZ2	1.43	0.66
2:1Z:223:THR:HG23	2:1Z:225:THR:HG22	1.76	0.66
2:3B:33:ASP:O	2:3B:60:LYS:NZ	2.29	0.66
1:3C:113:ILE:HA	1:3C:116:VAL:HG12	1.77	0.66
2:3F:221:ARG:NH1	38:8A:176:THR:OG1	2.28	0.66
2:3J:88:HIS:HB2	2:3J:91:GLN:NE2	2.09	0.66
3:3X:200:ILE:O	3:3X:204:THR:OG1	2.14	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4B:200:ILE:O	3:4B:204:THR:OG1	2.14	0.66
3:4F:200:ILE:O	3:4F:204:THR:OG1	2.14	0.66
7:4Q:306:ILE:HD11	24:6T:8:ILE:HA	1.78	0.66
14:5L:210:TYR:CE1	14:5L:220:GLN:HB2	2.31	0.66
14:5L:341:ASP:OD1	14:5L:342:LYS:N	2.27	0.66
14:5N:341:ASP:OD1	14:5N:342:LYS:N	2.27	0.66
15:5O:99:LYS:NZ	15:5O:203:ASN:ND2	2.40	0.66
24:6Z:416:ILE:HD12	24:6Z:416:ILE:H	1.60	0.66
25:7C:83:ARG:NH2	25:7C:86:GLU:OE2	2.28	0.66
29:7J:319:ILE:HG23	29:7J:320:PRO:HD2	1.72	0.66
1:E6:33:THR:HG23	24:6W:405:ALA:HB2	1.77	0.66
2:F3:282:TYR:OH	22:6O:81:ASN:HA	1.95	0.66
2:G1:206:ASN:OD1	41:G1:501:GTP:N2	2.28	0.66
1:H8:139:LEU:HD12	1:H8:170:VAL:HG12	1.76	0.66
1:M4:12:CYS:SG	1:M4:138:SER:HB3	2.35	0.66
1:M6:362:LYS:HB2	30:7K:101:TYR:CE2	2.30	0.66
2:O3:377:MET:SD	2:O3:379:SER:HB2	2.36	0.66
1:O6:135:VAL:HG11	1:O6:152:ILE:HD11	1.77	0.66
2:T3:88:HIS:ND1	2:T3:89:PRO:HD2	2.10	0.66
2:U9:88:HIS:CE1	2:U9:89:PRO:HD2	2.31	0.66
2:U9:264:ARG:NH2	2:U9:431:ASP:OD2	2.29	0.66
2:Y5:157:LEU:C	2:Y5:157:LEU:HD12	2.16	0.66
1:2M:52:ASN:OD1	1:2M:62:ARG:NH2	2.28	0.66
1:2Q:306:ARG:NH1	38:8A:94:LYS:O	2.29	0.66
2:2T:287:SER:N	2:2T:290:GLU:OE2	2.28	0.66
1:2Y:296:ALA:O	38:8C:105:ARG:NH2	2.21	0.66
2:3L:280:LYS:HA	2:3L:283:HIS:HB3	1.78	0.66
9:4Z:398:ASP:HA	9:4Z:401:ILE:HD12	1.75	0.66
14:5M:341:ASP:OD1	14:5M:342:LYS:N	2.27	0.66
14:5M:392:THR:HG21	14:5M:435:ALA:HA	1.77	0.66
14:5N:392:THR:HG21	14:5N:435:ALA:HA	1.77	0.66
14:5N:558:ALA:HB1	14:5N:601:VAL:HG12	1.77	0.66
24:6T:469:PHE:CE2	24:6T:482:ILE:HG23	2.31	0.66
2:A2:396:ASP:OD2	4:4G:53:ASN:ND2	2.28	0.66
2:I9:222:PRO:HD2	1:J0:324:LYS:HE3	1.78	0.66
1:L4:125:GLU:OE2	1:L4:159:TYR:OH	2.14	0.66
2:N9:240:ALA:HB1	2:N9:356:ASN:HD22	1.58	0.66
2:O1:287:SER:N	2:O1:290:GLU:OE2	2.26	0.66
1:T4:387:ALA:HA	1:T4:390:ARG:HH12	1.61	0.66
1:W8:26:ASP:O	1:W8:359:LYS:NZ	2.27	0.66
2:X3:406:HIS:HA	2:X3:409:VAL:HG22	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Y3:287:SER:N	2:Y3:290:GLU:OE2	2.29	0.66
1:Z2:179:VAL:HG22	2:Z3:258:ASN:HD22	1.61	0.66
1:Z2:311:LEU:HD23	1:Z2:312:THR:HG23	1.76	0.66
2:0B:392:ASP:OD2	2:0B:422:ARG:NH1	2.28	0.66
1:0G:3:GLU:HB2	1:0G:130:LEU:HA	1.78	0.66
1:0K:3:GLU:HB2	1:0K:130:LEU:HA	1.78	0.66
1:0S:45:GLU:HG3	1:0S:46:ARG:HG2	1.76	0.66
2:1V:145:THR:OG1	41:1W:501:GTP:O1B	2.14	0.66
2:3J:289:ALA:O	2:3J:293:ASN:ND2	2.28	0.66
2:3R:70:LEU:HB2	2:3R:98:ASP:HA	1.77	0.66
2:3T:406:HIS:HA	2:3T:409:VAL:HG12	1.78	0.66
14:5L:392:THR:HG21	14:5L:435:ALA:HA	1.77	0.66
15:5O:140:HIS:HB3	15:5O:146:VAL:HG21	1.77	0.66
15:5O:193:ARG:NH2	15:5O:205:CYS:O	2.28	0.66
20:6F:166:PRO:HG2	20:6F:194:THR:HG21	1.78	0.66
30:7L:360:ALA:HA	30:7L:363:VAL:HG22	1.78	0.66
2:D5:285:GLN:HE21	24:6Y:253:PRO:HG2	1.59	0.66
2:I5:264:ARG:NH2	2:I5:431:ASP:OD2	2.28	0.66
2:I9:47:ASP:OD1	28:7H:443:ARG:NH2	2.29	0.66
2:K7:309:HIS:HB3	35:7T:165:ARG:HH21	1.59	0.66
2:L5:236:SER:OG	2:L5:243:ARG:NH2	2.29	0.66
1:N8:320:ARG:NH1	27:7G:130:THR:O	2.29	0.66
2:O1:244:PHE:HB2	2:O1:356:ASN:HD21	1.59	0.66
1:S0:177:ASP:O	2:S1:352:LYS:HA	1.96	0.66
2:S1:56:THR:HG23	2:S1:60:LYS:HB3	1.77	0.66
1:S2:45:GLU:HG3	1:S2:46:ARG:HG2	1.77	0.66
1:T2:53:GLU:OE2	26:7E:71:PRO:O	2.13	0.66
1:T6:94:GLN:HB3	24:7A:35:TYR:CE2	2.31	0.66
1:W0:220:PRO:HD2	2:W1:326:LYS:HD2	1.78	0.66
2:W9:9:ILE:HD13	2:W9:150:GLY:HA2	1.78	0.66
2:X9:301:MET:HE1	2:X9:307:PRO:HD3	1.78	0.66
1:Y2:375:GLN:HB2	1:Y2:419:VAL:HG23	1.78	0.66
1:Z2:135:VAL:HG21	1:Z2:152:ILE:HD11	1.77	0.66
1:Z2:392:LYS:HB3	1:Z2:395:LEU:HD12	1.77	0.66
1:0A:58:ARG:HD3	1:0Q:280:GLN:HE22	1.61	0.66
1:0A:413:SER:HA	1:0A:416:ASN:HD22	1.61	0.66
2:0H:322:ASP:HB2	2:0H:373:ARG:HH21	1.60	0.66
2:0Z:336:LYS:O	2:0Z:339:ARG:NH2	2.28	0.66
2:1H:49:PHE:HB2	2:1H:53:PHE:HD2	1.61	0.66
1:1O:248:ALA:CB	1:1O:252:LYS:HD3	2.24	0.66
1:1U:113:ILE:HA	1:1U:116:VAL:HG22	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1X:392:ASP:OD2	2:1X:422:ARG:NH1	2.29	0.66
2:2F:244:PHE:HB2	2:2F:356:ASN:HD21	1.59	0.66
2:2T:417:GLU:HA	2:2T:420:GLU:HG2	1.78	0.66
1:2U:45:GLU:HG3	1:2U:46:ARG:HG2	1.75	0.66
2:3L:51:THR:HG21	2:3L:243:ARG:HG2	1.77	0.66
5:4M:75:ARG:NH1	15:5P:363:GLU:OE2	2.29	0.66
15:5P:14:LEU:H	15:5P:14:LEU:CD2	2.08	0.66
15:5P:34:GLU:OE2	15:5P:49:ARG:NE	2.29	0.66
18:5Y:128:GLN:OE1	18:5Y:128:GLN:N	2.19	0.66
22:6J:265:ASP:OD1	22:6J:266:LYS:N	2.29	0.66
22:6O:271:ARG:HH12	22:6O:275:LEU:HG	1.60	0.66
24:6T:470:ILE:CD1	24:6T:485:PRO:HG3	2.25	0.66
24:6X:315:ARG:HH11	24:6X:315:ARG:CG	2.06	0.66
2:A2:29:GLY:HA2	26:7F:45:MET:CE	2.24	0.66
2:F7:56:THR:HA	2:H3:285:GLN:HB2	1.76	0.66
1:F8:279:GLN:HE21	24:6U:411:ASN:HB2	1.59	0.66
1:G6:211:CYS:HA	1:G6:215:LEU:HB2	1.76	0.66
2:I3:88:HIS:CG	2:J9:283:HIS:HB3	2.30	0.66
1:I4:26:ASP:O	1:I4:359:LYS:NZ	2.23	0.66
2:J1:88:HIS:HB3	2:K7:283:HIS:ND1	2.11	0.66
2:L1:250:VAL:HG23	2:L1:254:GLU:HG3	1.77	0.66
2:M9:46:ASP:OD1	2:M9:46:ASP:N	2.29	0.66
1:O8:113:ILE:HA	1:O8:116:VAL:HG12	1.78	0.66
1:Q0:67:ASP:OD2	1:Q0:72:THR:OG1	2.12	0.66
2:Q5:287:SER:N	2:Q5:290:GLU:OE2	2.29	0.66
2:T1:264:ARG:NH1	2:T1:431:ASP:OD2	2.29	0.66
1:T6:45:GLU:HG3	1:T6:46:ARG:HG2	1.78	0.66
2:V7:286:LEU:O	2:V7:373:ARG:NH1	2.29	0.66
2:W7:413:MET:HB3	2:W7:417:GLU:OE2	1.96	0.66
2:Y5:211:ASP:OD1	2:Y5:214:ARG:NH2	2.28	0.66
1:Z8:131:GLN:HG2	1:Z8:250:LEU:HD13	1.77	0.66
1:0I:311:LEU:HD23	1:0I:312:THR:HG23	1.77	0.66
1:1E:139:LEU:HD12	1:1E:170:VAL:HG22	1.77	0.66
1:2A:165:LEU:HD11	1:2A:250:LEU:HD13	1.78	0.66
1:2U:320:ARG:NH2	38:8B:198:THR:HA	2.10	0.66
1:3K:178:THR:HB	1:3K:181:GLU:HG3	1.76	0.66
2:3L:84:ARG:HE	23:6R:15:ARG:HH22	1.43	0.66
2:3R:313:MET:HB2	2:3R:380:ASN:HB3	1.78	0.66
15:5O:9:PHE:HA	15:5O:78:TYR:HA	1.77	0.66
15:5O:289:LEU:C	15:5O:289:LEU:HD23	2.16	0.66
18:6A:128:GLN:OE1	18:6A:128:GLN:N	2.19	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:6P:307:ARG:HH21	22:6P:326:PHE:HB2	1.60	0.66
26:7F:63:LEU:H	26:7F:63:LEU:CD2	2.09	0.66
36:7V:94:LEU:O	36:7V:98:VAL:HG12	1.95	0.66
1:F8:32:PRO:HD2	24:6U:527:ASN:HD22	1.60	0.65
2:G1:264:ARG:NH2	2:G1:431:ASP:OD2	2.28	0.65
1:I0:219:THR:CG2	24:6X:488:ARG:HD2	2.26	0.65
1:I0:220:PRO:HD2	2:I1:326:LYS:HD3	1.77	0.65
1:I8:45:GLU:HG3	1:I8:46:ARG:HG2	1.78	0.65
2:K1:288:VAL:HG11	2:K1:327:ASP:HB2	1.77	0.65
2:K5:90:GLU:HB3	2:K5:121:ARG:HH22	1.61	0.65
2:M3:370:LYS:HB2	30:7K:212:ARG:HD2	1.78	0.65
2:M7:76:ASP:OD2	1:M8:46:ARG:NH2	2.29	0.65
2:O5:88:HIS:ND1	2:O5:89:PRO:HD2	2.11	0.65
2:R7:223:THR:OG1	1:R8:245:GLN:NE2	2.29	0.65
2:R7:286:LEU:O	2:R7:373:ARG:NH1	2.29	0.65
1:T8:287:PRO:HB3	13:5K:100:MET:SD	2.36	0.65
2:X3:335:ILE:HA	2:X3:338:LYS:HG2	1.78	0.65
2:Z9:399:TYR:O	2:Z9:402:ARG:NH1	2.29	0.65
2:0B:399:TYR:O	2:0B:402:ARG:NH1	2.30	0.65
1:0G:272:PRO:HB2	1:0G:282:ARG:HH12	1.60	0.65
2:0R:324:VAL:HG12	2:0R:326:LYS:H	1.61	0.65
1:0U:232:VAL:HG11	1:0U:268:VAL:HG21	1.78	0.65
1:1Q:377:MET:SD	1:1Q:380:ARG:NH2	2.69	0.65
2:2H:399:TYR:O	2:2H:402:ARG:NH1	2.28	0.65
2:3N:296:PHE:HE2	2:3N:335:ILE:HD13	1.60	0.65
1:3S:6:HIS:HD2	1:3S:134:GLN:HG3	1.61	0.65
4:4I:52:GLN:NE2	3:4J:299:THR:OG1	2.28	0.65
14:5L:112:SER:N	14:5L:155:PHE:HD2	1.93	0.65
18:5Z:128:GLN:OE1	18:5Z:128:GLN:N	2.19	0.65
18:6B:128:GLN:OE1	18:6B:128:GLN:N	2.19	0.65
18:6C:128:GLN:OE1	18:6C:128:GLN:N	2.19	0.65
20:6F:285:THR:HA	20:6F:288:TYR:CE2	2.31	0.65
24:6T:569:LYS:HB2	24:6T:572:ALA:HB3	1.78	0.65
1:3:194:GLU:OE2	3:3X:240:ARG:NH1	2.29	0.65
2:G7:387:ILE:HG12	2:G7:390:ARG:HH22	1.60	0.65
1:P8:165:LEU:HD11	1:P8:250:LEU:HD11	1.79	0.65
1:Q4:272:PRO:HB2	1:Q4:282:ARG:HH12	1.61	0.65
1:T6:73:MET:HA	1:T6:76:VAL:HG12	1.79	0.65
1:V6:4:ILE:HG22	1:V6:49:VAL:HG22	1.78	0.65
1:W4:177:ASP:O	2:W5:352:LYS:HA	1.95	0.65
2:W5:76:ASP:OD2	1:W6:46:ARG:NH2	2.28	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X0:6:HIS:HE2	1:X0:136:CYS:HG	1.37	0.65
2:Y5:244:PHE:HB2	2:Y5:356:ASN:HD21	1.61	0.65
1:0E:287:PRO:HA	1:0E:290:THR:HG22	1.77	0.65
2:0L:90:GLU:O	2:0L:121:ARG:NH1	2.28	0.65
2:0R:157:LEU:HD22	2:0R:166:LYS:HD3	1.78	0.65
1:0S:52:ASN:OD1	1:0S:62:ARG:NH2	2.29	0.65
1:1A:248:ALA:HA	1:1A:252:LYS:HD2	1.79	0.65
2:1T:101:ASN:OD1	1:1U:252:LYS:HE3	1.96	0.65
2:2Z:88:HIS:CE1	2:2Z:89:PRO:HD2	2.30	0.65
15:5O:121:SER:O	15:5O:270:LEU:HD22	1.95	0.65
30:7K:108:ARG:CZ	37:7Y:142:ARG:HD3	2.26	0.65
1:5:423:GLN:HB3	3:3Z:109:ALA:HB2	1.77	0.65
2:B2:223:THR:HG22	18:5Z:51:MET:HE3	1.77	0.65
1:F6:78:SER:HB3	24:6T:499:GLU:HB3	1.77	0.65
1:G8:190:HIS:CD2	1:G8:411:ALA:HA	2.32	0.65
1:H2:11:GLN:N	39:H2:503:GDP:O2B	2.28	0.65
1:H8:211:CYS:HA	1:H8:215:LEU:HB2	1.77	0.65
2:K5:287:SER:N	2:K5:290:GLU:OE2	2.29	0.65
2:M1:31:GLN:HG2	29:7I:82:THR:HG21	1.78	0.65
1:Q4:91:VAL:HG11	1:Q4:116:VAL:HG12	1.78	0.65
1:S8:409:THR:HB	13:5I:50:ARG:HD3	1.77	0.65
2:V1:413:MET:HB3	2:V1:417:GLU:OE2	1.96	0.65
1:V4:68:LEU:HB3	1:V4:96:GLY:HA2	1.78	0.65
1:V6:205:GLU:HG3	1:V6:302:ALA:HB2	1.78	0.65
2:W9:274:PRO:HB3	2:W9:286:LEU:HD11	1.77	0.65
2:X3:319:TYR:HB3	2:X3:323:VAL:HG21	1.78	0.65
1:Y2:252:LYS:HE2	1:Y2:350:LYS:CE	2.26	0.65
1:Z2:7:ILE:HD11	1:Z2:135:VAL:HG22	1.79	0.65
1:0E:334:GLN:HE22	1:0E:348:ASN:H	1.43	0.65
2:0H:56:THR:HA	2:0X:285:GLN:HB2	1.78	0.65
1:1E:286:VAL:HG23	1:1E:287:PRO:HD3	1.77	0.65
2:1H:317:LEU:HB3	2:1H:319:TYR:HE1	1.60	0.65
2:1T:222:PRO:HD2	1:1U:324:LYS:HE3	1.78	0.65
2:1T:392:ASP:OD2	2:1T:422:ARG:NH1	2.28	0.65
1:2Y:360:GLY:HA2	10:5C:408:VAL:HG21	1.77	0.65
1:3S:276:ARG:HH22	17:5V:219:LEU:HD22	1.60	0.65
5:4L:359:GLU:OE1	5:4L:363:GLN:NE2	2.28	0.65
8:4W:230:GLU:HA	8:4W:233:LYS:HD2	1.77	0.65
15:5O:56:LYS:HB2	15:5O:59:LEU:HB3	1.78	0.65
15:5P:14:LEU:H	15:5P:14:LEU:HD23	1.61	0.65
15:5P:279:ALA:HA	15:5P:298:VAL:HG21	1.76	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:7E:50:SER:N	26:7E:56:LEU:CD2	2.59	0.65
2:A4:145:THR:OG1	41:A4:501:GTP:O1B	2.14	0.65
1:E6:33:THR:HG21	22:6L:262:TYR:HB2	1.76	0.65
1:G2:345:ILE:O	1:G2:348:ASN:ND2	2.30	0.65
2:I3:27:GLU:OE1	2:I3:243:ARG:NH1	2.29	0.65
1:K4:20:PHE:HA	1:K4:230:SER:OG	1.97	0.65
2:K5:413:MET:HB3	2:K5:417:GLU:OE2	1.97	0.65
1:L6:20:PHE:HA	1:L6:230:SER:OG	1.97	0.65
1:M8:57:GLY:H	19:6E:14:GLN:NE2	1.95	0.65
1:P6:345:ILE:O	1:P6:348:ASN:ND2	2.29	0.65
1:Q0:156:ARG:NH1	1:Q0:197:ASP:OD1	2.29	0.65
2:Q1:155:GLU:HG2	2:Q1:197:HIS:CE1	2.32	0.65
2:Q3:105:ARG:O	2:Q3:109:THR:OG1	2.13	0.65
2:R1:263:PRO:O	17:5S:84:ARG:NH1	2.29	0.65
1:S0:135:VAL:HG21	1:S0:152:ILE:HD11	1.79	0.65
1:T4:309:ARG:NH1	1:T4:339:SER:O	2.28	0.65
2:T7:9:ILE:HG13	2:T7:139:ASN:HB3	1.79	0.65
2:V7:406:HIS:HA	2:V7:409:VAL:HG22	1.78	0.65
1:X2:6:HIS:HB2	1:X2:134:GLN:HE21	1.62	0.65
2:X3:223:THR:HG23	2:X3:225:THR:H	1.60	0.65
1:X6:389:PHE:O	1:X6:392:LYS:NZ	2.26	0.65
1:Y8:202:LEU:HD23	1:Y8:229:ILE:HD13	1.76	0.65
2:0F:344:VAL:HB	2:0F:346:TRP:NE1	2.11	0.65
2:0P:206:ASN:OD1	41:0Q:501:GTP:N2	2.27	0.65
1:1O:249:ASP:OD1	1:1O:250:LEU:N	2.27	0.65
2:1P:264:ARG:NH2	2:1P:431:ASP:OD2	2.28	0.65
2:1Z:258:ASN:HB2	2:1Z:352:LYS:HZ3	1.60	0.65
1:2G:248:ALA:HA	1:2G:252:LYS:HD2	1.79	0.65
1:2K:68:LEU:HB3	1:2K:96:GLY:HA2	1.76	0.65
2:2L:276:ILE:HG22	2:2L:281:ALA:HB2	1.77	0.65
1:2W:207:LEU:HB3	1:2W:225:LEU:HD22	1.78	0.65
1:2Y:113:ILE:HA	1:2Y:116:VAL:HG22	1.77	0.65
2:3J:255:PHE:HA	2:3J:259:LEU:HD13	1.79	0.65
2:3P:255:PHE:HA	2:3P:259:LEU:HD13	1.78	0.65
14:5N:199:SER:HG	14:5N:245:THR:HG1	1.38	0.65
22:6O:138:ASP:HA	22:6O:141:LYS:HE2	1.79	0.65
36:7W:94:LEU:O	36:7W:98:VAL:HG12	1.95	0.65
1:E0:276:ARG:HH12	24:6T:287:GLY:H	1.44	0.65
2:G1:250:VAL:HG23	2:G1:254:GLU:HG3	1.78	0.65
2:H1:289:ALA:O	2:H1:293:ASN:ND2	2.30	0.65
2:I1:100:ALA:HB1	1:I2:252:LYS:HB3	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I1:336:LYS:O	2:I1:339:ARG:NH2	2.29	0.65
1:I8:236:ILE:HG23	1:I8:237:THR:HG23	1.78	0.65
1:L0:113:ILE:HA	1:L0:116:VAL:HG22	1.78	0.65
2:M7:221:ARG:NH2	30:7K:62:GLU:HB2	2.08	0.65
2:N3:139:ASN:HD21	2:N3:170:THR:HG22	1.61	0.65
2:N5:5:ILE:HG22	2:N5:64:ARG:HB3	1.78	0.65
2:O5:254:GLU:OE1	2:O5:352:LYS:NZ	2.27	0.65
2:P7:335:ILE:HG22	2:P7:341:ILE:HD13	1.77	0.65
2:R3:7:ILE:HD11	2:R3:137:VAL:HG12	1.79	0.65
1:T6:211:CYS:SG	1:T6:220:PRO:HB3	2.36	0.65
1:V2:121:ARG:NH2	1:V2:158:GLU:OE2	2.29	0.65
2:V3:109:THR:OG1	2:V3:411:GLU:OE2	2.14	0.65
2:V7:88:HIS:HB2	2:X3:283:HIS:ND1	2.12	0.65
1:W2:113:ILE:HD13	1:W2:150:LEU:HD22	1.77	0.65
2:Y5:236:SER:O	2:Y5:243:ARG:NH2	2.29	0.65
2:0F:305:CYS:HB2	2:0F:387:ILE:HD11	1.77	0.65
1:1A:51:PHE:O	1:1A:62:ARG:NH2	2.28	0.65
1:1M:12:CYS:SG	1:1M:13:GLY:N	2.68	0.65
2:1R:392:ASP:OD2	2:1R:422:ARG:NH1	2.29	0.65
2:1T:183:GLU:HG3	2:1T:184:PRO:HD3	1.77	0.65
2:2Z:297:GLU:OE2	38:8C:74:ILE:CG2	2.37	0.65
2:3D:133:GLN:HB3	2:3D:252:ILE:HG21	1.79	0.65
2:3L:183:GLU:HG3	2:3L:184:PRO:HD3	1.78	0.65
1:3O:94:GLN:NE2	3:4F:139:SER:O	2.30	0.65
15:5O:255:VAL:O	15:5O:259:ILE:HG22	1.95	0.65
22:6P:45:PRO:HB2	22:6P:52:TYR:HB2	1.78	0.65
26:7F:119:MET:HA	26:7F:119:MET:HE2	1.76	0.65
1:A5:11:GLN:N	39:A5:501:GDP:O2B	2.28	0.65
1:B1:204:ASN:OD1	39:B1:501:GDP:O2'	2.13	0.65
1:C2:359:LYS:NZ	24:7A:110:ASN:OD1	2.18	0.65
2:G1:348:PRO:HG2	2:G1:349:THR:HG23	1.79	0.65
2:K5:399:TYR:O	2:K5:402:ARG:NH1	2.30	0.65
2:L9:132:LEU:HD22	2:L9:164:LYS:HD3	1.77	0.65
2:Q1:381:SER:OG	2:Q1:382:THR:N	2.27	0.65
1:Q6:58:ARG:HD3	1:S2:280:GLN:HE22	1.61	0.65
1:R8:52:ASN:OD1	1:R8:62:ARG:NH2	2.30	0.65
1:T4:52:ASN:OD1	1:T4:62:ARG:NH2	2.30	0.65
1:T6:392:LYS:HD2	1:T6:395:LEU:HD22	1.79	0.65
2:V1:213:CYS:HA	2:V1:217:LEU:HB2	1.77	0.65
1:X4:190:HIS:HD2	1:X4:414:ASN:HD22	1.44	0.65
2:Z9:206:ASN:OD1	41:0A:501:GTP:N2	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0N:198:THR:HG21	2:0N:201:ALA:HB2	1.79	0.65
1:0Y:215:LEU:HB3	1:0Y:217:LEU:HG	1.78	0.65
2:1H:66:ILE:HD11	2:1H:93:ILE:HG12	1.78	0.65
1:1U:290:THR:HA	1:1U:293:MET:HB2	1.78	0.65
2:1V:381:SER:OG	2:1V:382:THR:N	2.30	0.65
2:2B:161:TYR:CD1	38:8A:80:TYR:HB3	2.32	0.65
1:2M:286:VAL:HG21	1:2M:325:GLU:HB3	1.78	0.65
2:2V:214:ARG:HD3	38:8B:65:VAL:HG22	1.79	0.65
2:3F:27:GLU:OE1	2:3F:243:ARG:NH1	2.30	0.65
2:3L:124:LYS:NZ	3:4B:35:CYS:SG	2.69	0.65
2:3P:287:SER:N	2:3P:290:GLU:OE2	2.29	0.65
8:4W:461:VAL:O	8:4W:464:VAL:O	2.14	0.65
14:5M:150:THR:HA	14:5M:166:ALA:HA	1.77	0.65
15:5O:132:GLU:HA	15:5O:135:GLU:OE1	1.97	0.65
38:8D:78:ASP:OD2	38:8D:79:PRO:CD	2.42	0.65
2:K1:414:GLU:HG2	2:K1:415:GLU:H	1.61	0.65
1:K6:113:ILE:HA	1:K6:116:VAL:HG22	1.79	0.65
2:L3:286:LEU:HD13	2:L3:371:VAL:HG23	1.78	0.65
2:M1:370:LYS:HE2	30:7K:277:ALA:HB2	1.78	0.65
2:N1:254:GLU:HB3	2:N1:352:LYS:HE2	1.77	0.65
2:R9:287:SER:N	2:R9:290:GLU:OE2	2.23	0.65
1:S2:377:MET:HA	1:S2:380:ARG:HE	1.62	0.65
1:T0:345:ILE:O	1:T0:348:ASN:ND2	2.30	0.65
1:U2:5:VAL:HG23	1:U2:62:ARG:HG2	1.77	0.65
1:U4:140:GLY:O	1:U4:184:ASN:ND2	2.28	0.65
1:U6:67:ASP:OD2	1:U6:72:THR:OG1	2.14	0.65
1:W2:113:ILE:HA	1:W2:116:VAL:HG12	1.79	0.65
1:W2:177:ASP:O	2:W3:352:LYS:HA	1.97	0.65
2:Y3:250:VAL:HB	2:Y3:254:GLU:HG3	1.79	0.65
2:Y5:70:LEU:HD13	2:Y5:95:GLY:HA3	1.77	0.65
2:0F:88:HIS:HB3	2:0V:283:HIS:ND1	2.12	0.65
2:0J:90:GLU:HB3	2:0J:121:ARG:HH22	1.62	0.65
1:0K:388:MET:CE	1:0K:388:MET:N	2.60	0.65
1:0U:387:ALA:HA	1:0U:390:ARG:HH21	1.62	0.65
2:1D:145:THR:OG1	41:1D:501:GTP:O1B	2.12	0.65
1:1E:301:CYS:SG	1:1E:302:ALA:N	2.70	0.65
1:1U:113:ILE:HD13	1:1U:150:LEU:HD22	1.77	0.65
2:1V:90:GLU:HG2	2:1V:90:GLU:O	1.97	0.65
1:2E:211:CYS:HA	1:2E:215:LEU:HB2	1.78	0.65
1:2Y:340:TYR:CE2	38:8C:95:LYS:O	2.49	0.65
2:2Z:96:LYS:HA	1:3A:1:MET:HE1	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2Z:182:VAL:HG12	2:2Z:185:TYR:HB2	1.78	0.65
2:2Z:279:GLU:OE2	2:2Z:279:GLU:N	2.24	0.65
1:3C:306:ARG:HE	38:8D:97:PHE:HD2	1.44	0.65
1:3G:276:ARG:HH12	17:5S:216:GLU:HB3	1.62	0.65
8:4W:102:GLU:HG3	8:4W:103:GLN:HG2	1.78	0.65
10:5C:477:LYS:HB3	10:5D:154:MET:CE	2.26	0.65
14:5L:150:THR:HA	14:5L:166:ALA:HA	1.77	0.65
14:5N:150:THR:HA	14:5N:166:ALA:HA	1.77	0.65
24:6X:573:VAL:HG12	24:6X:600:ALA:HB1	1.79	0.65
2:A2:40:LYS:HZ2	26:7F:46:ASN:N	1.93	0.65
2:A2:221:ARG:CB	26:7F:77:ILE:O	2.44	0.65
2:G3:88:HIS:HD2	2:G3:89:PRO:CD	1.99	0.65
1:G4:52:ASN:OD1	1:G4:62:ARG:NH2	2.29	0.65
2:G7:227:LEU:O	2:G7:231:ILE:HG12	1.97	0.65
1:H4:276:ARG:NH2	24:6U:490:THR:HA	2.11	0.65
1:H6:345:ILE:O	1:H6:348:ASN:ND2	2.23	0.65
2:I7:5:ILE:HG22	2:I7:64:ARG:HB3	1.77	0.65
2:I9:183:GLU:HG3	2:I9:184:PRO:HD3	1.77	0.65
2:J7:33:ASP:O	2:J7:60:LYS:NZ	2.29	0.65
2:L5:352:LYS:NZ	2:L5:353:CYS:O	2.30	0.65
1:M6:357:PRO:HG2	37:7Y:142:ARG:HH12	1.61	0.65
2:M7:89:PRO:HG2	19:6E:25:VAL:HG11	1.73	0.65
2:O3:265:ILE:HD11	2:O3:435:VAL:HG21	1.78	0.65
2:P9:46:ASP:OD1	2:P9:47:ASP:N	2.27	0.65
1:Q0:5:VAL:HG12	1:Q0:62:ARG:HD3	1.79	0.65
1:Q2:27:GLU:OE1	1:Q2:241:ARG:NH1	2.27	0.65
2:R9:57:GLY:H	2:T5:285:GLN:HB3	1.61	0.65
2:T3:129:CYS:SG	2:T3:132:LEU:HB2	2.36	0.65
1:T6:52:ASN:N	1:T6:60:VAL:O	2.29	0.65
1:V0:3:GLU:HB3	1:V0:130:LEU:HA	1.77	0.65
2:W1:34:GLY:HA3	2:W1:60:LYS:HZ1	1.61	0.65
2:W9:33:ASP:HA	2:W9:85:GLN:HB2	1.79	0.65
1:X4:204:ASN:HD21	39:X4:502:GDP:HN22	1.43	0.65
1:Y4:2:ARG:HE	1:Y4:240:LEU:HD22	1.61	0.65
1:Y4:52:ASN:OD1	1:Y4:62:ARG:NH2	2.30	0.65
1:Z0:181:GLU:HG3	1:Z0:182:PRO:HD3	1.79	0.65
2:Z1:191:THR:HA	2:Z1:194:LEU:HB3	1.79	0.65
2:0N:398:MET:HG2	1:0O:345:ILE:HG12	1.78	0.65
1:1A:4:ILE:HB	1:1A:50:TYR:HE1	1.62	0.65
2:1N:392:ASP:OD2	2:1N:422:ARG:NH1	2.30	0.65
1:3C:174:LYS:HE3	38:8D:106:ASP:OD2	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3K:233:MET:O	1:3K:237:THR:HG22	1.96	0.65
1:3O:125:GLU:OE1	4:4E:45:SER:OG	2.15	0.65
2:3P:254:GLU:HB3	2:3P:352:LYS:HE2	1.77	0.65
2:3R:56:THR:OG1	3:4H:34:SER:HA	1.97	0.65
10:5A:310:LEU:O	10:5A:314:LYS:HG2	1.96	0.65
10:5B:81:ALA:HB1	10:5B:85:ARG:HH21	1.62	0.65
14:5L:89:ASP:HB2	14:5L:96:ILE:HD11	1.77	0.65
14:5L:558:ALA:HB1	14:5L:601:VAL:HG12	1.79	0.65
14:5M:89:ASP:HB2	14:5M:96:ILE:HD11	1.77	0.65
14:5M:558:ALA:HB1	14:5M:601:VAL:HG12	1.79	0.65
24:6Z:327:LEU:HD12	24:6Z:328:PRO:HD2	1.77	0.65
36:7V:16:GLN:O	36:7V:20:GLU:HG2	1.97	0.65
1:5:41:ASP:OD1	26:7D:25:TYR:CD2	2.44	0.65
2:8:283:HIS:HB3	2:T1:88:HIS:HD2	1.59	0.65
2:C7:41:THR:HG21	24:6U:274:ARG:CZ	2.27	0.65
2:H1:57:GLY:H	2:I7:285:GLN:HB2	1.62	0.65
2:H1:288:VAL:O	2:H1:292:THR:OG1	2.13	0.65
2:H9:336:LYS:O	2:H9:339:ARG:NH2	2.30	0.65
2:I1:11:GLN:OE1	2:I1:15:GLN:NE2	2.30	0.65
2:I5:154:LEU:HG	2:I5:197:HIS:HB3	1.77	0.65
2:J7:29:GLY:HA2	29:7J:409:VAL:HG11	1.77	0.65
1:L4:45:GLU:HG3	1:L4:46:ARG:HG2	1.78	0.65
2:M9:399:TYR:O	2:M9:402:ARG:NH1	2.30	0.65
2:N5:203:MET:HB2	2:N5:303:VAL:HG21	1.78	0.65
2:O3:90:GLU:HG3	2:O3:121:ARG:NH1	2.12	0.65
2:P9:32:PRO:HG3	19:6E:155:GLN:HB3	1.77	0.65
2:R7:31:GLN:HE21	2:R7:37:PRO:HG3	1.61	0.65
2:R9:296:PHE:HE1	2:R9:377:MET:HG3	1.62	0.65
1:W4:34:GLY:O	1:W4:58:ARG:HA	1.97	0.65
1:W6:140:GLY:O	1:W6:184:ASN:ND2	2.23	0.65
1:X4:177:ASP:O	2:X5:352:LYS:HA	1.96	0.65
2:X7:9:ILE:HG22	2:X7:146:GLY:HA2	1.77	0.65
2:Z7:114:ILE:HD11	2:Z7:149:LEU:HD22	1.79	0.65
1:0M:33:THR:O	1:0M:58:ARG:NH2	2.30	0.65
1:0M:54:ALA:HB3	1:0M:58:ARG:HB3	1.79	0.65
1:0S:90:PHE:HB3	1:0S:92:PHE:CE1	2.32	0.65
1:0Y:334:GLN:HE22	1:0Y:348:ASN:H	1.45	0.65
2:1H:399:TYR:O	2:1H:402:ARG:NH1	2.28	0.65
2:1N:88:HIS:HB3	2:1N:91:GLN:HG3	1.78	0.65
1:2C:248:ALA:HA	1:2C:252:LYS:HD2	1.79	0.65
1:2G:52:ASN:OD1	1:2G:62:ARG:NH2	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2Q:287:PRO:HA	1:2Q:290:THR:HG22	1.78	0.65
1:2Q:306:ARG:NH2	38:8A:96:GLY:H	1.94	0.65
2:2R:85:GLN:HG3	14:5L:503:ARG:HH22	1.61	0.65
1:3Q:140:GLY:O	1:3Q:184:ASN:ND2	2.25	0.65
14:5N:89:ASP:HB2	14:5N:96:ILE:HD11	1.77	0.65
16:5Q:120:PRO:HB3	16:5Q:146:THR:HG21	1.78	0.65
20:6F:239:GLU:HB3	20:6F:252:GLU:HB3	1.78	0.65
22:6J:48:GLU:HG2	22:6J:113:ARG:HD3	1.77	0.65
24:6U:96:LEU:HB2	24:6U:123:TYR:HB3	1.77	0.65
24:6V:122:TYR:HB2	24:6V:131:HIS:HB3	1.79	0.65
36:7W:16:GLN:O	36:7W:20:GLU:HG2	1.97	0.65
36:7W:74:GLU:N	36:7W:74:GLU:OE1	2.30	0.65
37:7Y:55:LEU:HD12	37:7Y:55:LEU:C	2.16	0.65
1:G4:190:HIS:CD2	1:G4:411:ALA:HA	2.32	0.65
2:G5:206:ASN:OD1	41:G5:501:GTP:N2	2.30	0.65
2:H1:244:PHE:O	2:H1:249:ASN:ND2	2.29	0.65
2:I7:90:GLU:HB3	2:I7:121:ARG:HH22	1.61	0.65
2:M5:58:ALA:HB3	37:7Y:215:HIS:H	1.61	0.65
2:M7:11:GLN:OE1	2:M7:15:GLN:NE2	2.29	0.65
1:O4:2:ARG:HE	1:O4:240:LEU:HD22	1.62	0.65
1:P8:392:LYS:HD2	1:P8:395:LEU:HD22	1.78	0.65
2:R3:392:ASP:OD2	2:R3:422:ARG:NH1	2.30	0.65
1:T2:263:LEU:HD22	1:T2:422:TYR:CE1	2.31	0.65
1:T4:67:ASP:OD2	1:T4:72:THR:OG1	2.14	0.65
1:T6:309:ARG:H	1:T6:372:THR:HG22	1.62	0.65
2:U7:109:THR:OG1	2:U7:411:GLU:OE2	2.12	0.65
1:W6:345:ILE:O	1:W6:348:ASN:ND2	2.30	0.65
1:W8:334:GLN:HE22	1:W8:348:ASN:H	1.44	0.65
1:X4:33:THR:O	1:X4:58:ARG:NH2	2.30	0.65
2:Y1:5:ILE:HG22	2:Y1:64:ARG:HB3	1.77	0.65
2:0J:298:PRO:HA	2:0J:301:MET:HG2	1.79	0.65
1:0Y:211:CYS:HA	1:0Y:215:LEU:HB2	1.78	0.65
2:1F:56:THR:O	2:1F:60:LYS:HB2	1.96	0.65
2:1N:313:MET:HE3	2:1N:346:TRP:CH2	2.19	0.65
2:1R:90:GLU:HB3	2:1R:121:ARG:HH12	1.62	0.65
2:1V:91:GLN:HG2	2:1V:121:ARG:HH22	1.61	0.65
1:2W:135:VAL:HG21	1:2W:152:ILE:HD11	1.77	0.65
1:3I:52:ASN:HD22	1:3I:52:ASN:H	1.45	0.65
2:3L:267:PHE:HB2	2:3L:384:ILE:HD12	1.77	0.65
1:3S:309:ARG:O	1:3S:371:SER:OG	2.13	0.65
4:4I:92:GLN:HG2	4:4I:102:ARG:HG2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:4O:74:ARG:HH22	6:4O:75:ALA:HB2	1.61	0.65
18:6A:5:VAL:HG11	18:6A:62:GLU:HG2	1.78	0.65
24:6T:354:ARG:HB2	24:6T:357:LEU:HG	1.79	0.65
24:6X:96:LEU:HB2	24:6X:123:TYR:HB3	1.78	0.65
24:6X:467:ARG:NH1	24:6X:484:GLU:CD	2.48	0.65
26:7D:58:ILE:HD12	26:7D:58:ILE:N	2.04	0.65
36:7V:74:GLU:N	36:7V:74:GLU:OE1	2.30	0.65
1:G8:392:LYS:HD2	1:G8:395:LEU:HD22	1.79	0.64
1:H4:309:ARG:H	1:H4:372:THR:HG22	1.62	0.64
2:I9:223:THR:HG23	2:I9:225:THR:H	1.61	0.64
2:J7:80:THR:HB	29:7J:390:LEU:HD11	1.79	0.64
2:K7:88:HIS:CE1	2:K7:89:PRO:HD2	2.30	0.64
1:L0:12:CYS:SG	1:L0:138:SER:HB2	2.37	0.64
2:M3:264:ARG:NH2	2:M3:431:ASP:OD2	2.30	0.64
2:M5:381:SER:OG	2:M5:382:THR:N	2.30	0.64
2:N3:271:SER:HB3	2:N3:377:MET:HB3	1.80	0.64
2:N5:85:GLN:O	2:P3:283:HIS:NE2	2.26	0.64
1:N6:309:ARG:H	1:N6:372:THR:HG22	1.62	0.64
1:P4:107:THR:OG1	1:P4:108:GLU:OE1	2.08	0.64
2:P7:206:ASN:OD1	41:P8:501:GTP:N2	2.29	0.64
2:P7:392:ASP:OD2	2:P7:422:ARG:NH1	2.30	0.64
1:S8:375:GLN:HB3	1:S8:422:TYR:HD2	1.59	0.64
1:T6:213:ARG:HE	1:T6:297:LYS:HD2	1.61	0.64
1:X6:139:LEU:HD12	1:X6:170:VAL:HG12	1.79	0.64
2:Y3:282:TYR:OH	8:4W:370:VAL:CA	2.44	0.64
2:Z1:56:THR:HA	2:0H:285:GLN:HG2	1.77	0.64
1:Z8:207:LEU:HB3	1:Z8:225:LEU:HD22	1.79	0.64
1:0I:54:ALA:HB3	1:0I:58:ARG:HB2	1.79	0.64
1:1Q:279:GLN:OE1	9:4Z:196:LYS:NZ	2.31	0.64
2:1R:56:THR:HG23	2:1R:60:LYS:HB3	1.78	0.64
1:1W:345:ILE:O	1:1W:348:ASN:ND2	2.28	0.64
2:1Z:62:VAL:HG21	2:1Z:88:HIS:HB2	1.80	0.64
1:2A:135:VAL:HG21	1:2A:152:ILE:HD11	1.78	0.64
2:2N:220:GLU:HG2	2:2N:221:ARG:HG3	1.78	0.64
2:2P:167:LEU:HD23	2:2P:200:VAL:HB	1.78	0.64
2:2V:267:PHE:HB2	2:2V:384:ILE:HD12	1.79	0.64
22:6K:333:MET:HG3	22:6K:334:THR:HG23	1.79	0.64
22:6M:280:LYS:HE3	22:6M:350:PHE:HA	1.79	0.64
22:6P:65:ARG:HE	22:6P:101:ASN:HB2	1.61	0.64
23:6S:45:GLU:OE1	23:6S:45:GLU:HA	1.96	0.64
24:6U:278:VAL:HG11	24:6U:395:VAL:HG11	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:6X:444:ILE:HD13	24:6X:542:TYR:CE1	2.32	0.64
24:7A:6:PRO:HD3	31:7N:84:TYR:HD1	1.62	0.64
2:A2:40:LYS:HZ2	26:7F:45:MET:HB2	1.62	0.64
2:A2:223:THR:HG22	26:7F:78:ALA:CB	2.27	0.64
2:F5:56:THR:HA	2:H1:285:GLN:HB2	1.77	0.64
1:H6:309:ARG:H	1:H6:372:THR:HG22	1.62	0.64
1:I8:220:PRO:HD2	2:I9:326:LYS:HG2	1.79	0.64
2:J7:80:THR:CA	29:7J:390:LEU:HD21	2.26	0.64
2:J7:381:SER:OG	2:J7:382:THR:N	2.30	0.64
2:L5:176:GLN:HE22	2:L5:304:LYS:HE2	1.62	0.64
1:M2:33:THR:O	1:M2:58:ARG:NH1	2.31	0.64
1:M6:1:MET:CE	37:7Y:116:MET:CB	2.75	0.64
1:M8:86:ARG:HB3	2:O5:283:HIS:CE1	2.32	0.64
2:N5:35:GLN:HB3	2:N5:59:GLY:O	1.97	0.64
2:O5:191:THR:HA	2:O5:194:LEU:HB3	1.77	0.64
1:P6:3:GLU:HG3	1:P6:127:CYS:HB2	1.80	0.64
2:Q5:250:VAL:HB	2:Q5:254:GLU:HG3	1.79	0.64
2:U1:216:SER:O	2:U1:280:LYS:NZ	2.30	0.64
1:U2:140:GLY:O	1:U2:184:ASN:ND2	2.31	0.64
1:X4:238:CYS:SG	1:X4:316:LEU:HD21	2.37	0.64
1:O0:5:VAL:HG23	1:O0:62:ARG:HG2	1.78	0.64
2:1D:346:TRP:HE3	2:1D:346:TRP:O	1.80	0.64
2:1X:394:LYS:HD2	2:1X:397:LEU:HD12	1.78	0.64
2:2T:109:THR:OG1	2:2T:411:GLU:OE2	2.14	0.64
1:2U:3:GLU:HB2	1:2U:130:LEU:HA	1.78	0.64
2:3D:287:SER:N	2:3D:290:GLU:OE2	2.29	0.64
1:3M:391:ARG:CD	2:3N:346:TRP:HB3	2.21	0.64
2:3R:19:ALA:O	2:3R:22:GLU:HG3	1.97	0.64
10:5D:232:GLU:HA	10:5D:235:ARG:HE	1.62	0.64
14:5L:112:SER:HA	14:5L:155:PHE:CD2	2.31	0.64
21:6H:137:LEU:HD11	21:6H:198:GLU:HG2	1.77	0.64
22:6M:177:LEU:HB2	22:6M:183:ASN:HB2	1.79	0.64
23:6Q:45:GLU:OE1	23:6Q:45:GLU:HA	1.96	0.64
23:6R:45:GLU:OE1	23:6R:45:GLU:HA	1.96	0.64
24:6X:315:ARG:HG2	24:6X:315:ARG:NH1	2.07	0.64
24:6X:489:ASN:C	24:6X:489:ASN:HD22	1.99	0.64
28:7H:451:LYS:HG3	28:7H:452:ASN:N	2.12	0.64
1:G2:388:MET:CE	2:G3:348:PRO:HD2	2.26	0.64
2:I7:399:TYR:O	2:I7:402:ARG:NH1	2.31	0.64
2:J9:213:CYS:HA	2:J9:217:LEU:HB2	1.78	0.64
2:M5:336:LYS:O	2:M5:339:ARG:NH2	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N2:60:VAL:HG11	1:N2:86:ARG:HE	1.61	0.64
2:Q9:223:THR:HG22	2:Q9:224:TYR:H	1.62	0.64
2:R1:161:TYR:HD1	13:5H:124:VAL:HG13	1.61	0.64
1:R6:237:THR:HG23	1:R6:240:LEU:HD13	1.79	0.64
2:R9:98:ASP:OD1	2:R9:99:ALA:N	2.29	0.64
1:S4:309:ARG:NH1	1:S4:339:SER:O	2.31	0.64
1:T6:73:MET:HA	1:T6:76:VAL:CG1	2.28	0.64
1:T8:180:VAL:HG23	1:T8:184:ASN:HD21	1.61	0.64
2:U1:264:ARG:NH2	2:U1:431:ASP:OD2	2.30	0.64
2:U5:7:ILE:HD11	2:U5:68:LEU:HD21	1.78	0.64
1:V8:91:VAL:HG11	1:V8:119:VAL:HG21	1.79	0.64
2:W7:236:SER:O	2:W7:243:ARG:NH2	2.30	0.64
2:Z3:105:ARG:O	2:Z3:109:THR:OG1	2.14	0.64
1:0G:304:ASP:OD1	1:0G:306:ARG:NH1	2.29	0.64
1:2A:121:ARG:CZ	38:8A:100:SER:OG	2.46	0.64
2:2N:223:THR:HG23	2:2N:225:THR:HG22	1.80	0.64
2:3L:221:ARG:NH1	23:6R:70:THR:O	2.30	0.64
2:3L:255:PHE:HA	2:3L:259:LEU:HD13	1.79	0.64
2:3P:56:THR:OG1	3:4F:34:SER:HA	1.96	0.64
1:3S:275:SER:O	1:3S:279:GLN:HG2	1.97	0.64
4:3W:92:GLN:HG2	4:3W:102:ARG:HG2	1.78	0.64
4:4G:92:GLN:HG2	4:4G:102:ARG:HG2	1.78	0.64
6:4O:47:ASN:O	6:4O:51:VAL:HG23	1.98	0.64
9:4Z:91:LEU:HA	9:4Z:94:GLU:HG3	1.78	0.64
10:5D:134:SER:O	10:5D:138:HIS:ND1	2.26	0.64
15:5O:34:GLU:HG3	15:5O:49:ARG:NE	2.10	0.64
21:6G:172:LEU:HD22	21:6G:176:GLU:HG2	1.79	0.64
24:6Y:483:PHE:HB2	24:6Y:496:LYS:HA	1.79	0.64
24:6Z:97:ARG:NH2	24:6Z:99:TYR:OH	2.29	0.64
26:7E:50:SER:CA	26:7E:56:LEU:HD23	2.27	0.64
36:7W:19:LEU:N	36:7W:102:MET:HE2	2.13	0.64
38:8B:82:ASP:HA	38:8B:112:ILE:HD13	1.78	0.64
2:B0:278:ALA:HB3	18:5Y:43:ASN:HD22	1.62	0.64
2:F1:56:THR:HG23	2:G7:285:GLN:HA	1.79	0.64
1:K4:172:SER:HB3	1:K4:175:VAL:HG22	1.79	0.64
2:K5:77:GLU:HG3	29:7I:43:PHE:HZ	1.62	0.64
1:K6:12:CYS:SG	1:K6:138:SER:HB2	2.36	0.64
2:L3:66:ILE:HG21	2:L3:122:ILE:HD11	1.77	0.64
1:M0:272:PRO:HB2	1:M0:282:ARG:HH12	1.61	0.64
2:M1:392:ASP:OD2	2:M1:422:ARG:NH1	2.30	0.64
2:P7:337:THR:HG22	25:7C:21:LEU:HD13	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q0:177:ASP:O	2:Q1:352:LYS:HA	1.97	0.64
1:T6:320:ARG:HH12	33:7Q:139:GLU:HA	1.63	0.64
1:T8:190:HIS:NE2	1:T8:410:GLU:HG3	2.13	0.64
1:V4:45:GLU:N	1:V4:45:GLU:OE1	2.31	0.64
2:W3:109:THR:OG1	2:W3:411:GLU:OE2	2.16	0.64
2:W7:224:TYR:H	1:W8:245:GLN:NE2	1.94	0.64
2:X5:167:LEU:HA	2:X5:200:VAL:HG13	1.78	0.64
1:Y8:58:ARG:HD3	1:0E:280:GLN:HE22	1.62	0.64
2:Z7:53:PHE:HB3	2:Z7:61:HIS:HB3	1.79	0.64
2:0N:388:PHE:HB3	2:0N:425:LEU:HD11	1.79	0.64
1:0Q:139:LEU:HD12	1:0Q:170:VAL:HG12	1.79	0.64
2:1B:11:GLN:OE1	2:1B:15:GLN:NE2	2.31	0.64
2:2F:399:TYR:O	2:2F:402:ARG:NH1	2.31	0.64
2:2J:161:TYR:CE1	38:8C:80:TYR:HB3	2.33	0.64
1:3C:138:SER:OG	1:3C:139:LEU:N	2.29	0.64
1:3C:173:PRO:HD2	1:3C:380:ARG:HE	1.62	0.64
1:3I:211:CYS:HA	1:3I:215:LEU:HB2	1.79	0.64
4:3Y:92:GLN:HG2	4:3Y:102:ARG:HG2	1.78	0.64
4:4E:92:GLN:HG2	4:4E:102:ARG:HG2	1.78	0.64
7:4R:96:THR:HG21	21:6G:73:VAL:HG13	1.78	0.64
14:5N:112:SER:HA	14:5N:155:PHE:HD2	1.62	0.64
15:5O:72:GLN:O	15:5O:72:GLN:HG3	1.95	0.64
20:6F:361:LEU:HD12	20:6F:362:PRO:CD	2.16	0.64
24:6T:278:VAL:HG21	24:6T:395:VAL:HG11	1.80	0.64
24:6Y:36:VAL:HB	24:6Y:45:LEU:HD11	1.79	0.64
24:6Y:96:LEU:HB2	24:6Y:123:TYR:HB3	1.78	0.64
34:7R:201:LEU:HD21	36:7V:91:PRO:HB3	1.80	0.64
37:7Y:223:ARG:HD3	37:7Y:225:TRP:CH2	2.32	0.64
2:4:423:GLU:HG3	4:3Y:108:TYR:OH	1.98	0.64
1:5:78:SER:CB	24:6V:149:LYS:HG3	2.27	0.64
1:9:83:GLN:NE2	24:6X:177:ARG:HH12	1.94	0.64
2:G7:96:LYS:HB3	1:G8:1:MET:HE2	1.79	0.64
1:H2:35:THR:HG22	28:7H:312:LEU:HD21	1.80	0.64
1:H2:140:GLY:O	1:H2:184:ASN:ND2	2.30	0.64
2:H3:27:GLU:OE1	2:H3:243:ARG:NH1	2.31	0.64
2:I3:392:ASP:OD2	2:I3:422:ARG:NH1	2.31	0.64
1:I8:2:ARG:HB3	1:I8:131:GLN:HB2	1.80	0.64
2:J1:432:PHE:HA	2:J1:435:VAL:HG12	1.77	0.64
1:K8:177:ASP:O	2:K9:352:LYS:HA	1.97	0.64
2:M5:109:THR:OG1	2:M5:411:GLU:OE2	2.14	0.64
1:M6:73:MET:HA	1:M6:76:VAL:HG22	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N3:317:LEU:HB3	2:N3:319:TYR:HE1	1.61	0.64
2:N5:88:HIS:HE1	2:N5:90:GLU:CG	2.10	0.64
1:O4:178:THR:OG1	2:O5:258:ASN:ND2	2.26	0.64
2:O7:207:GLU:HG2	2:O7:304:LYS:HD2	1.78	0.64
2:O9:155:GLU:HG2	2:O9:197:HIS:CE1	2.32	0.64
2:R3:100:ALA:HA	1:R4:252:LYS:HE2	1.79	0.64
1:S4:177:ASP:O	2:S5:352:LYS:HA	1.96	0.64
1:T2:220:PRO:HD2	2:T3:326:LYS:HG2	1.80	0.64
1:U2:52:ASN:OD1	1:U2:62:ARG:NH2	2.31	0.64
1:V2:273:LEU:H	1:V2:292:GLN:HE22	1.44	0.64
2:W5:399:TYR:OH	2:W5:415:GLU:OE2	2.16	0.64
1:X2:320:ARG:HH22	1:X2:357:PRO:HG3	1.62	0.64
2:Z5:157:LEU:HD22	2:Z5:166:LYS:HD3	1.80	0.64
1:Z8:250:LEU:HA	1:Z8:253:LEU:HD12	1.79	0.64
2:0H:305:CYS:HB3	2:0H:387:ILE:HD11	1.77	0.64
1:0M:286:VAL:HG23	1:0M:287:PRO:HD3	1.78	0.64
2:0P:129:CYS:SG	2:0P:132:LEU:HB2	2.38	0.64
1:0Y:51:PHE:O	1:0Y:62:ARG:NH2	2.31	0.64
2:1L:264:ARG:NH2	2:1L:431:ASP:OD2	2.31	0.64
2:2H:120:ASP:CG	38:8B:27:HIS:CD2	2.66	0.64
2:2V:414:GLU:HG2	2:2V:416:GLY:H	1.62	0.64
1:3A:418:LEU:HG	1:3A:422:TYR:HE2	1.61	0.64
1:3C:245:GLN:CG	38:8D:198:THR:HG21	2.28	0.64
1:3C:248:ALA:HA	1:3C:252:LYS:HD2	1.80	0.64
2:3F:163:LYS:HE3	3:3V:137:ARG:HG2	1.78	0.64
2:3T:213:CYS:HA	2:3T:217:LEU:HD12	1.80	0.64
4:4A:92:GLN:HG2	4:4A:102:ARG:HG2	1.78	0.64
12:5F:209:THR:HG23	12:5F:212:ARG:H	1.62	0.64
14:5M:112:SER:HA	14:5M:155:PHE:HD2	1.62	0.64
15:5P:52:TYR:CD2	15:5P:55:LEU:HD21	2.33	0.64
22:6M:114:THR:HG23	22:6M:117:GLY:H	1.61	0.64
24:6X:482:ILE:HD12	24:6X:498:LEU:HD23	1.79	0.64
31:7N:102:ILE:HG13	31:7N:107:ASP:HB3	1.80	0.64
2:H3:413:MET:HB3	2:H3:417:GLU:OE2	1.96	0.64
1:I0:218:THR:HG23	24:6X:489:ASN:CA	2.16	0.64
2:I7:406:HIS:HA	2:I7:409:VAL:HG22	1.78	0.64
1:I8:211:CYS:HA	1:I8:215:LEU:HB2	1.79	0.64
2:I9:392:ASP:OD2	2:I9:422:ARG:NH1	2.31	0.64
1:K4:211:CYS:HA	1:K4:215:LEU:HB2	1.79	0.64
1:K6:220:PRO:HD2	2:K7:326:LYS:HD2	1.78	0.64
2:L5:129:CYS:SG	2:L5:132:LEU:HB2	2.38	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N5:387:ILE:HG12	2:N5:390:ARG:HH22	1.61	0.64
2:N9:236:SER:OG	2:N9:243:ARG:NH2	2.31	0.64
2:R9:264:ARG:HD3	17:5U:87:VAL:HG23	1.79	0.64
1:S4:2:ARG:HD2	1:S4:131:GLN:HB2	1.79	0.64
1:S4:186:THR:HG23	1:S4:187:LEU:HD12	1.80	0.64
2:U9:336:LYS:O	2:U9:339:ARG:NH2	2.29	0.64
1:V8:2:ARG:HE	1:V8:240:LEU:HD22	1.61	0.64
2:X5:344:VAL:HG13	2:X5:346:TRP:H	1.63	0.64
1:X6:2:ARG:HE	1:X6:240:LEU:HD22	1.62	0.64
1:Z4:252:LYS:HE2	1:Z4:350:LYS:HE2	1.79	0.64
2:0F:336:LYS:O	2:0F:339:ARG:NH2	2.30	0.64
1:0I:259:PRO:HG3	1:0I:311:LEU:HD21	1.80	0.64
1:0K:178:THR:HG22	1:0K:180:VAL:H	1.63	0.64
2:0L:387:ILE:HD12	2:0L:390:ARG:HH22	1.62	0.64
2:0N:392:ASP:OD2	2:0N:422:ARG:NH1	2.31	0.64
1:0W:350:LYS:NZ	1:0W:352:SER:OG	2.31	0.64
1:0Y:7:ILE:HD13	1:0Y:151:LEU:HD21	1.80	0.64
2:1L:245:ASP:HA	2:1L:249:ASN:HD21	1.61	0.64
2:1L:336:LYS:O	2:1L:339:ARG:NH2	2.29	0.64
1:1Q:309:ARG:H	1:1Q:372:THR:HG22	1.63	0.64
2:1R:27:GLU:OE1	2:1R:243:ARG:NH1	2.30	0.64
1:2K:51:PHE:O	1:2K:62:ARG:NH2	2.31	0.64
2:3N:255:PHE:HA	2:3N:259:LEU:HD13	1.80	0.64
12:5F:41:ALA:HB3	12:5F:44:ILE:HG22	1.80	0.64
20:6F:342:GLN:HB2	20:6F:344:LEU:HD23	1.80	0.64
24:6Y:86:PRO:HD2	24:6Y:89:VAL:CG1	2.28	0.64
2:G3:221:ARG:HG3	22:6M:178:GLY:HA2	1.80	0.64
1:G4:350:LYS:NZ	1:G4:351:SER:O	2.30	0.64
2:I3:57:GLY:H	2:J9:285:GLN:HG3	1.61	0.64
2:J3:27:GLU:OE1	2:J3:243:ARG:NH1	2.30	0.64
2:L5:155:GLU:HG2	2:L5:197:HIS:CE1	2.32	0.64
1:M4:6:HIS:HE2	1:M4:136:CYS:HG	1.44	0.64
1:O6:388:MET:HE3	2:O7:348:PRO:HD2	1.80	0.64
2:R9:206:ASN:OD1	41:S0:501:GTP:N2	2.31	0.64
2:T3:287:SER:N	2:T3:290:GLU:OE2	2.31	0.64
2:T5:220:GLU:HG2	2:T5:221:ARG:HG3	1.79	0.64
2:Z3:286:LEU:O	2:Z3:373:ARG:NH1	2.30	0.64
2:Z5:346:TRP:CD1	2:Z5:346:TRP:C	2.71	0.64
2:Z9:298:PRO:HA	2:Z9:301:MET:HG3	1.78	0.64
1:0C:139:LEU:HD21	1:0C:168:SER:HB2	1.79	0.64
1:0C:394:PHE:HE2	1:0C:397:TRP:HE3	1.45	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0H:56:THR:N	2:0H:60:LYS:O	2.30	0.64
1:0K:54:ALA:HB3	1:0K:58:ARG:HB3	1.79	0.64
1:0M:320:ARG:HG2	1:0M:355:ASP:HB2	1.79	0.64
1:0Q:272:PRO:HB2	1:0Q:282:ARG:HH12	1.61	0.64
1:0W:215:LEU:HB3	1:0W:217:LEU:HG	1.79	0.64
2:1L:286:LEU:O	2:1L:373:ARG:NH1	2.31	0.64
2:1N:204:LEU:HD11	2:1N:209:ILE:HD11	1.80	0.64
1:2K:134:GLN:HE21	1:2K:167:PHE:HE2	1.45	0.64
1:2M:211:CYS:HA	1:2M:215:LEU:HB2	1.79	0.64
1:2M:391:ARG:NH2	2:2N:434:GLU:O	2.31	0.64
1:3Q:45:GLU:HG3	1:3Q:46:ARG:HG2	1.78	0.64
5:4M:143:ASN:O	5:4M:147:ILE:HG13	1.98	0.64
6:4O:288:VAL:HA	6:4O:291:ARG:HD2	1.80	0.64
7:4R:324:GLN:NE2	24:6Z:22:LEU:O	2.30	0.64
14:5L:428:VAL:HA	14:5L:444:GLY:HA2	1.80	0.64
14:5M:428:VAL:HA	14:5M:444:GLY:HA2	1.80	0.64
34:7S:188:ILE:HG13	35:7U:143:TYR:HE1	1.62	0.64
2:A8:223:THR:HG23	18:5X:51:MET:HE3	1.80	0.64
1:G6:32:PRO:HD2	24:6Y:527:ASN:HD22	1.61	0.64
2:I7:287:SER:N	2:I7:290:GLU:OE2	2.29	0.64
1:J4:359:LYS:NZ	16:5Q:13:ASP:OD1	2.31	0.64
2:J5:88:HIS:ND1	2:L1:283:HIS:HA	2.13	0.64
2:J7:282:TYR:CE1	5:4M:209:LEU:HD22	2.33	0.64
1:L6:339:SER:H	34:7S:140:ASN:ND2	1.96	0.64
2:L9:88:HIS:O	1:N6:281:TYR:OH	2.15	0.64
2:O1:53:PHE:HB3	2:O1:61:HIS:HB3	1.80	0.64
2:O1:240:ALA:HB1	2:O1:356:ASN:HD22	1.63	0.64
1:O2:65:LEU:HD13	1:O2:90:PHE:HE1	1.63	0.64
1:O2:393:ALA:CB	2:O3:346:TRP:HE1	2.10	0.64
1:O6:52:ASN:OD1	1:O6:62:ARG:NH2	2.31	0.64
1:R4:11:GLN:N	39:R4:502:GDP:O1B	2.29	0.64
2:R7:56:THR:HA	2:T3:285:GLN:HB2	1.79	0.64
2:S7:305:CYS:HB2	2:S7:383:ALA:HB1	1.79	0.64
2:S9:408:TYR:HB3	2:S9:413:MET:HE2	1.79	0.64
1:T2:106:TYR:HE2	3:4D:78:PRO:HA	1.62	0.64
2:U5:274:PRO:HG3	2:U5:286:LEU:HD11	1.79	0.64
1:U6:211:CYS:HA	1:U6:215:LEU:HB2	1.79	0.64
1:W2:190:HIS:CD2	1:W2:411:ALA:HA	2.33	0.64
1:Z0:207:LEU:HD11	1:Z0:229:ILE:CD1	2.28	0.64
2:0L:9:ILE:HG12	2:0L:153:LEU:HD21	1.78	0.64
2:0V:336:LYS:O	2:0V:339:ARG:NH2	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1D:199:ASP:HB3	2:1D:256:GLN:NE2	2.12	0.64
2:1X:102:ASN:HD22	2:1X:105:ARG:HB2	1.62	0.64
2:2P:399:TYR:O	2:2P:402:ARG:NH1	2.31	0.64
2:2Z:267:PHE:HB2	2:2Z:384:ILE:HD12	1.79	0.64
2:3B:298:PRO:HA	2:3B:301:MET:HG3	1.79	0.64
1:3C:299:MET:O	38:8D:105:ARG:NH2	2.31	0.64
1:3C:306:ARG:HH12	38:8D:100:SER:HA	1.63	0.64
2:3L:236:SER:OG	2:3L:243:ARG:NH2	2.30	0.64
4:4C:92:GLN:HG2	4:4C:102:ARG:HG2	1.78	0.64
10:5C:481:LEU:HD11	10:5C:494:LEU:HD23	1.78	0.64
14:5L:450:ARG:HG2	14:5L:464:SER:HB2	1.79	0.64
14:5L:509:ALA:HB3	14:5L:513:PHE:CZ	2.33	0.64
14:5N:428:VAL:HA	14:5N:444:GLY:HA2	1.80	0.64
24:6U:469:PHE:CE2	24:6U:482:ILE:HG23	2.32	0.64
24:6X:451:LYS:CB	24:6X:468:ARG:HH11	2.11	0.64
31:7N:78:HIS:O	31:7N:80:PRO:HD3	1.98	0.64
38:8B:82:ASP:N	38:8B:82:ASP:OD1	2.31	0.64
2:G5:278:ALA:HB3	22:6N:215:GLY:HA2	1.78	0.64
2:G7:289:ALA:O	2:G7:293:ASN:ND2	2.30	0.64
1:I0:51:PHE:O	1:I0:62:ARG:NH2	2.31	0.64
2:J7:222:PRO:HD2	1:J8:324:LYS:HE3	1.80	0.64
2:L5:259:LEU:HD11	2:L5:316:CYS:HB2	1.80	0.64
1:M0:177:ASP:O	2:M1:352:LYS:HA	1.97	0.64
2:M3:195:LEU:HD21	2:M3:264:ARG:HH11	1.62	0.64
1:M4:53:GLU:OE2	1:M4:57:GLY:N	2.26	0.64
2:N9:90:GLU:OE1	2:N9:90:GLU:HA	1.98	0.64
1:O2:253:LEU:HD11	1:O2:316:LEU:HD11	1.78	0.64
2:P3:381:SER:OG	2:P3:382:THR:N	2.31	0.64
2:P5:90:GLU:HB2	2:P5:121:ARG:HH22	1.62	0.64
1:P8:2:ARG:HB3	1:P8:131:GLN:HB2	1.80	0.64
2:P9:392:ASP:OD2	2:P9:422:ARG:NH1	2.31	0.64
2:R1:223:THR:HG22	2:R1:224:TYR:H	1.63	0.64
2:U1:88:HIS:HB3	2:V7:283:HIS:ND1	2.12	0.64
1:V8:33:THR:HA	8:4V:471:SER:OG	1.98	0.64
1:V8:113:ILE:HD13	1:V8:150:LEU:HD22	1.79	0.64
1:X4:192:LEU:HD22	1:X4:196:ALA:HB2	1.79	0.64
1:Z6:3:GLU:HB2	1:Z6:130:LEU:HA	1.79	0.64
2:0P:276:ILE:HG23	2:0P:280:LYS:HB3	1.80	0.64
2:0X:145:THR:OG1	41:0Y:501:GTP:O1B	2.16	0.64
2:1R:222:PRO:HD2	1:1S:324:LYS:HE3	1.80	0.64
1:2E:95:THR:CB	38:8B:83:ARG:HH12	2.06	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2F:123:ARG:NH1	38:8B:75:SER:O	2.31	0.64
1:2Q:113:ILE:HA	1:2Q:116:VAL:HG22	1.80	0.64
2:2T:88:HIS:HB3	2:3J:283:HIS:ND1	2.13	0.64
4:3Y:141:ARG:HH11	4:3Y:147:ASN:HB3	1.63	0.64
14:5M:382:ASN:ND2	23:6R:62:GLN:O	2.31	0.64
14:5N:450:ARG:HG2	14:5N:464:SER:HB2	1.79	0.64
15:5P:299:GLU:HA	15:5P:302:THR:HG22	1.78	0.64
15:5P:326:LEU:HD12	15:5P:326:LEU:C	2.17	0.64
22:6I:65:ARG:HE	22:6I:101:ASN:HB2	1.61	0.64
22:6M:188:ARG:NH2	22:6M:256:TYR:O	2.31	0.64
24:6W:416:ILE:HD12	24:6W:416:ILE:H	1.63	0.64
37:7Y:59:PRO:O	37:7Y:62:GLN:N	2.30	0.64
38:8B:201:LEU:HD12	38:8B:201:LEU:C	2.16	0.64
2:A0:283:HIS:CD2	2:T3:62:VAL:HB	2.33	0.64
1:A3:41:ASP:HA	26:7F:25:TYR:CE2	2.33	0.64
1:A3:44:LEU:CD1	18:6C:36:ASN:O	2.42	0.64
1:C2:358:PRO:O	18:6D:22:ARG:NH2	2.31	0.64
1:H6:276:ARG:HH11	24:6V:490:THR:HA	1.59	0.64
1:J0:309:ARG:NH1	1:J0:339:SER:O	2.31	0.64
1:J8:309:ARG:H	1:J8:372:THR:HG22	1.62	0.64
1:K4:31:ASP:OD2	1:K4:33:THR:OG1	2.14	0.64
2:L7:172:TYR:CE2	2:L7:203:MET:HG2	2.33	0.64
2:M5:76:ASP:HB2	37:7Y:119:TRP:CH2	2.33	0.64
2:M7:27:GLU:OE1	2:M7:243:ARG:NH1	2.30	0.64
2:N9:50:ASN:O	2:N9:64:ARG:NH2	2.30	0.64
1:O4:263:LEU:HD13	1:O4:422:TYR:CE1	2.33	0.64
2:R9:287:SER:OG	2:R9:290:GLU:OE1	2.15	0.64
1:S2:263:LEU:HD21	1:S2:425:TYR:HD2	1.63	0.64
1:S4:26:ASP:OD1	24:6U:10:LYS:HE2	1.97	0.64
1:T2:139:LEU:HD12	1:T2:170:VAL:HG12	1.78	0.64
1:T2:309:ARG:H	1:T2:372:THR:HG22	1.63	0.64
1:T4:306:ARG:HH12	13:5J:106:TYR:HB2	1.63	0.64
2:Z7:169:PHE:HB3	2:Z7:204:LEU:HD11	1.78	0.64
1:0A:130:LEU:HD23	1:0A:162:ARG:HG3	1.78	0.64
2:0B:244:PHE:HB2	2:0B:356:ASN:HD21	1.62	0.64
2:0J:88:HIS:CE1	2:0Z:283:HIS:HA	2.33	0.64
1:0M:211:CYS:HA	1:0M:215:LEU:HB2	1.80	0.64
1:0S:26:ASP:O	1:0S:359:LYS:NZ	2.28	0.64
1:1A:361:LEU:HD12	1:1A:362:LYS:H	1.63	0.64
1:1Q:177:ASP:O	2:1R:352:LYS:HA	1.97	0.64
2:2J:88:HIS:ND1	2:2J:89:PRO:CD	2.59	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2P:398:MET:HG2	1:2Q:345:ILE:HD13	1.78	0.64
1:2Q:306:ARG:HH12	38:8A:95:LYS:HA	1.62	0.64
1:2S:5:VAL:HG23	1:2S:62:ARG:HG2	1.79	0.64
2:2V:255:PHE:HA	2:2V:259:LEU:HD13	1.80	0.64
2:3F:76:ASP:OD2	1:3G:46:ARG:NH2	2.31	0.64
1:3O:285:THR:HG23	1:3O:288:GLU:H	1.62	0.64
1:3Q:205:GLU:HG2	1:3Q:206:ALA:N	2.13	0.64
2:3R:236:SER:OG	2:3R:243:ARG:NH2	2.31	0.64
2:3T:199:ASP:OD2	2:3T:256:GLN:HG2	1.98	0.64
2:3T:267:PHE:HB3	2:3T:384:ILE:HG21	1.79	0.64
14:5M:450:ARG:HG2	14:5M:464:SER:HB2	1.79	0.64
35:7T:157:ARG:NH2	36:7V:57:ASP:OD1	2.31	0.64
1:F2:58:ARG:HD3	1:G8:280:GLN:HE22	1.63	0.63
1:F8:78:SER:HB3	24:6U:499:GLU:HB3	1.78	0.63
2:G5:72:PRO:HD2	1:G6:2:ARG:NH1	2.12	0.63
1:G6:190:HIS:CD2	1:G6:411:ALA:HA	2.33	0.63
2:J9:5:ILE:HG22	2:J9:64:ARG:HB3	1.79	0.63
2:M3:39:ASP:O	15:5O:80:ASP:OD1	2.16	0.63
2:M3:267:PHE:HB2	2:M3:384:ILE:HD12	1.78	0.63
1:R2:45:GLU:HG2	1:R2:46:ARG:HG2	1.79	0.63
2:S5:286:LEU:O	2:S5:373:ARG:NH1	2.30	0.63
1:U8:178:THR:HG23	1:U8:181:GLU:HG3	1.79	0.63
2:V1:88:HIS:HD2	2:V1:89:PRO:CD	2.04	0.63
1:V4:52:ASN:OD1	1:V4:62:ARG:NH2	2.32	0.63
2:X5:320:ARG:NH2	2:X5:358:GLN:OE1	2.31	0.63
1:0A:3:GLU:HB2	1:0A:130:LEU:HA	1.80	0.63
1:0C:31:ASP:OD2	1:0C:33:THR:OG1	2.15	0.63
1:0E:388:MET:HE1	2:0F:347:CYS:HA	1.79	0.63
2:1B:56:THR:HA	2:1R:285:GLN:HB2	1.79	0.63
2:1V:27:GLU:OE1	2:1V:243:ARG:NH1	2.30	0.63
2:1V:213:CYS:HA	2:1V:217:LEU:HB2	1.79	0.63
2:2J:123:ARG:NH1	38:8C:78:ASP:O	2.25	0.63
2:2T:56:THR:HA	2:3J:285:GLN:HB2	1.78	0.63
2:3P:279:GLU:OE1	2:3P:279:GLU:N	2.26	0.63
4:4G:141:ARG:HH11	4:4G:147:ASN:HB3	1.63	0.63
14:5N:165:THR:HG22	14:5N:171:MET:SD	2.37	0.63
19:6E:167:VAL:HB	19:6E:178:ARG:HH12	1.63	0.63
24:6X:460:HIS:HB2	24:6X:465:LEU:HD22	1.80	0.63
2:2:85:GLN:NE2	18:5X:78:LEU:HD22	2.13	0.63
1:7:337:ASN:HD21	3:4B:68:SER:HA	1.62	0.63
1:C2:362:LYS:HD3	18:6D:24:ARG:HA	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G4:80:PRO:HB3	24:6X:526:PHE:HE2	1.63	0.63
1:G8:32:PRO:HD2	24:6Z:527:ASN:HD22	1.62	0.63
1:L2:134:GLN:HE21	1:L2:167:PHE:HE2	1.46	0.63
2:M1:88:HIS:O	1:N8:281:TYR:OH	2.16	0.63
1:M4:54:ALA:HA	2:O1:285:GLN:HB2	1.79	0.63
2:M5:225:THR:OG1	37:7Y:150:ARG:HD3	1.98	0.63
1:M8:361:LEU:HD13	1:M8:364:SER:HB2	1.81	0.63
1:R2:11:GLN:NE2	2:R3:249:ASN:OD1	2.31	0.63
2:R5:298:PRO:HA	2:R5:301:MET:HG3	1.80	0.63
1:R6:165:LEU:HD11	1:R6:250:LEU:HD11	1.79	0.63
2:S7:42:ILE:HA	7:4T:256:TYR:HB3	1.78	0.63
2:T1:339:ARG:NH2	2:T1:342:GLN:HB3	2.14	0.63
2:T5:5:ILE:HG22	2:T5:64:ARG:HB3	1.80	0.63
2:T7:206:ASN:OD1	41:T8:501:GTP:N2	2.31	0.63
1:U8:124:ALA:HB1	1:U8:130:LEU:HD11	1.78	0.63
1:V2:31:ASP:OD2	1:V2:33:THR:OG1	2.17	0.63
1:V8:273:LEU:H	1:V8:292:GLN:HE22	1.45	0.63
2:W1:236:SER:O	2:W1:243:ARG:NH2	2.29	0.63
2:W9:88:HIS:HB3	2:W9:91:GLN:CB	2.25	0.63
2:X7:339:ARG:HH21	2:X7:342:GLN:HA	1.61	0.63
1:Y0:221:THR:HG23	1:Y0:223:GLY:H	1.61	0.63
1:Z6:14:ASN:ND2	1:Z6:65:LEU:HG	2.14	0.63
1:0G:286:VAL:HG23	1:0G:287:PRO:HD3	1.79	0.63
1:0I:134:GLN:HE21	1:0I:167:PHE:HE2	1.46	0.63
2:0L:91:GLN:HE22	2:0L:125:LEU:HD11	1.64	0.63
2:0X:392:ASP:OD2	2:0X:422:ARG:NH1	2.31	0.63
2:2F:399:TYR:OH	2:2F:415:GLU:OE2	2.09	0.63
1:2G:350:LYS:NZ	1:2G:351:SER:O	2.27	0.63
2:2T:305:CYS:HB3	2:2T:387:ILE:HD11	1.80	0.63
1:3K:34:GLY:HA3	1:3K:58:ARG:HD3	1.80	0.63
4:4I:141:ARG:HH11	4:4I:147:ASN:HB3	1.63	0.63
14:5L:347:ALA:HB3	14:5L:357:ALA:HB3	1.80	0.63
17:5S:109:ALA:O	17:5S:113:ILE:HG13	1.99	0.63
24:6U:469:PHE:HB2	24:6U:484:GLU:HA	1.80	0.63
24:6U:470:ILE:HD12	24:6U:485:PRO:HD3	1.80	0.63
38:8A:91:GLN:O	38:8A:102:PHE:HE1	1.80	0.63
38:8B:73:TRP:HD1	38:8B:75:SER:HB2	1.63	0.63
1:D2:78:SER:HB2	24:6X:323:LYS:HG3	1.80	0.63
1:G2:388:MET:HE2	2:G3:348:PRO:HD2	1.78	0.63
1:I2:51:PHE:O	1:I2:62:ARG:NH2	2.31	0.63
1:I2:175:VAL:HG12	2:I3:329:ASN:ND2	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J1:176:GLN:HE22	2:J1:304:LYS:HE2	1.63	0.63
1:L0:52:ASN:OD1	1:L0:62:ARG:NH2	2.31	0.63
2:M3:369:ALA:HB1	30:7K:213:PHE:CD2	2.34	0.63
2:N5:287:SER:N	2:N5:290:GLU:OE2	2.30	0.63
2:O9:417:GLU:HA	2:O9:420:GLU:HG2	1.80	0.63
2:P3:51:THR:HG21	2:P3:243:ARG:HG2	1.81	0.63
2:Q5:88:HIS:ND1	2:Q5:89:PRO:HD2	2.14	0.63
1:Q8:418:LEU:HG	1:Q8:422:TYR:HE2	1.64	0.63
2:R1:317:LEU:HB3	2:R1:319:TYR:HE1	1.64	0.63
1:T2:334:GLN:HE22	1:T2:348:ASN:H	1.46	0.63
2:U3:276:ILE:HB	2:U3:280:LYS:HG3	1.79	0.63
1:V2:3:GLU:HB2	1:V2:130:LEU:HD13	1.80	0.63
2:X5:286:LEU:O	2:X5:373:ARG:NH1	2.32	0.63
1:X6:172:SER:O	1:X6:176:SER:OG	2.14	0.63
1:Y4:137:HIS:ND1	1:Y4:138:SER:O	2.29	0.63
2:Y9:278:ALA:HA	2:Y9:369:ALA:HB2	1.80	0.63
1:Z0:58:ARG:HD3	1:0G:280:GLN:HE22	1.63	0.63
2:Z7:70:LEU:HD21	2:Z7:114:ILE:HD13	1.80	0.63
1:0I:139:LEU:HD12	1:0I:170:VAL:HG22	1.79	0.63
1:0M:112:LEU:HB3	1:0M:147:MET:HE1	1.79	0.63
1:0M:388:MET:SD	2:0N:348:PRO:HD3	2.39	0.63
2:0P:198:THR:HG21	2:0P:201:ALA:HB2	1.79	0.63
1:1E:350:LYS:NZ	1:1E:351:SER:O	2.30	0.63
1:1M:113:ILE:HA	1:1M:116:VAL:HG12	1.79	0.63
2:1P:223:THR:HG22	2:1P:224:TYR:H	1.63	0.63
1:1S:199:CYS:SG	1:1S:200:MET:N	2.71	0.63
2:1T:175:PRO:HB3	2:1T:390:ARG:HE	1.63	0.63
2:1T:246:GLY:H	2:1T:249:ASN:HD21	1.47	0.63
2:2L:222:PRO:HD2	1:2M:324:LYS:HE3	1.79	0.63
2:2P:119:LEU:HA	2:2P:122:ILE:HG12	1.79	0.63
2:2T:133:GLN:HB3	2:2T:252:ILE:HG21	1.79	0.63
1:2Y:58:ARG:HH12	1:2Y:84:ILE:HG22	1.62	0.63
1:3A:31:ASP:OD2	1:3A:33:THR:OG1	2.16	0.63
2:3J:165:SER:HA	2:3J:199:ASP:OD2	1.97	0.63
1:3O:177:ASP:O	2:3P:352:LYS:HA	1.98	0.63
1:3S:172:SER:CB	1:3S:205:GLU:HB2	2.29	0.63
1:3S:216:LYS:HB2	1:3S:275:SER:OG	1.97	0.63
4:3W:141:ARG:HH11	4:3W:147:ASN:HB3	1.63	0.63
8:4W:253:ALA:HA	8:4W:256:LEU:HD12	1.79	0.63
14:5N:347:ALA:HB3	14:5N:357:ALA:HB3	1.80	0.63
14:5N:557:ASN:OD1	14:5N:557:ASN:N	2.30	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:5O:213:THR:O	15:5O:217:GLU:CG	2.46	0.63
22:6I:110:ILE:HB	22:6I:113:ARG:HH22	1.63	0.63
24:6U:354:ARG:HB2	24:6U:357:LEU:HG	1.81	0.63
24:6X:130:MET:HE1	24:6X:161:PHE:CB	2.28	0.63
24:6Y:514:TYR:HA	24:6Y:517:LEU:HD13	1.80	0.63
24:6Z:197:LYS:HD3	24:6Z:197:LYS:O	1.98	0.63
2:A2:42:ILE:HD13	24:6Y:93:ARG:CZ	2.28	0.63
2:E7:282:TYR:CE1	22:6L:82:LEU:CD2	2.70	0.63
1:F2:12:CYS:HB3	39:F2:501:GDP:C8	2.32	0.63
2:G7:269:LEU:HD22	2:G7:303:VAL:HG21	1.80	0.63
2:G9:176:GLN:HG2	2:G9:177:VAL:HG23	1.81	0.63
2:H5:387:ILE:HG12	2:H5:390:ARG:HH22	1.64	0.63
2:M3:90:GLU:HG3	2:M3:121:ARG:HH12	1.61	0.63
1:R8:156:ARG:NH1	1:R8:197:ASP:OD1	2.31	0.63
1:T8:52:ASN:OD1	1:T8:62:ARG:NH2	2.30	0.63
2:U7:26:LEU:HD23	2:U7:363:VAL:HG12	1.81	0.63
2:V7:287:SER:N	2:V7:290:GLU:OE2	2.25	0.63
2:Y9:9:ILE:HG22	2:Y9:146:GLY:HA2	1.79	0.63
1:Z0:190:HIS:CD2	1:Z0:411:ALA:HA	2.33	0.63
1:0C:211:CYS:HA	1:0C:215:LEU:HB2	1.80	0.63
2:0F:90:GLU:O	2:0F:121:ARG:NH1	2.31	0.63
1:0I:272:PRO:HB2	1:0I:282:ARG:HH12	1.63	0.63
2:0J:398:MET:HG2	1:0K:345:ILE:HG12	1.81	0.63
1:0K:309:ARG:H	1:0K:372:THR:HG22	1.63	0.63
1:1M:235:GLY:HA3	1:1M:366:THR:HG21	1.79	0.63
2:1R:55:GLU:O	2:1R:55:GLU:HG3	1.97	0.63
2:1V:91:GLN:HA	2:1V:121:ARG:NH1	2.07	0.63
2:2P:195:LEU:HD21	2:2P:264:ARG:HD2	1.79	0.63
1:2Y:332:ASN:OD1	38:8B:1:MET:HA	1.98	0.63
1:3A:248:ALA:HA	1:3A:252:LYS:HD2	1.80	0.63
1:3G:286:VAL:HG23	1:3G:287:PRO:HD3	1.79	0.63
1:3M:396:HIS:HA	1:3M:399:THR:HG22	1.79	0.63
1:3Q:3:GLU:HG3	1:3Q:127:CYS:HB2	1.80	0.63
4:3W:35:LYS:NZ	3:3X:253:ASN:OD1	2.18	0.63
4:4A:141:ARG:HH11	4:4A:147:ASN:HB3	1.63	0.63
4:4C:141:ARG:HH11	4:4C:147:ASN:HB3	1.63	0.63
4:4E:141:ARG:HH11	4:4E:147:ASN:HB3	1.63	0.63
5:4M:300:GLU:CD	28:7X:301:GLU:OE2	2.36	0.63
5:4M:300:GLU:OE2	28:7X:301:GLU:OE2	2.15	0.63
6:4O:137:GLU:HA	6:4O:140:ARG:HD2	1.78	0.63
7:4T:223:GLN:HB3	31:7M:22:HIS:NE2	2.12	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:5M:347:ALA:HB3	14:5M:357:ALA:HB3	1.80	0.63
17:5U:174:SER:CB	17:5U:175:PRO:CD	2.76	0.63
19:6E:20:LEU:HD21	19:6E:28:ARG:HH21	1.61	0.63
21:6G:14:LEU:HD13	21:6G:131:TYR:HE2	1.64	0.63
23:6R:5:GLN:NE2	23:6R:9:ASN:OD1	2.30	0.63
24:6Z:277:CYS:HA	24:6Z:368:LEU:HA	1.80	0.63
24:7A:6:PRO:CG	31:7N:83:THR:HG23	2.29	0.63
38:8D:158:MET:O	38:8D:162:VAL:HG23	1.99	0.63
1:G2:311:LEU:HD23	1:G2:312:THR:HG23	1.81	0.63
2:G9:213:CYS:HA	2:G9:217:LEU:HB2	1.80	0.63
2:G9:306:ASP:OD1	2:G9:309:HIS:N	2.32	0.63
2:I9:79:ARG:NH1	2:I9:92:LEU:O	2.32	0.63
1:J0:107:THR:OG1	1:J0:401:GLU:OE2	2.16	0.63
2:J3:255:PHE:HA	2:J3:259:LEU:HD13	1.80	0.63
2:J5:301:MET:HE1	2:J5:307:PRO:HD3	1.81	0.63
1:J6:73:MET:HB3	1:J6:77:ARG:HH12	1.61	0.63
1:K0:107:THR:OG1	1:K0:401:GLU:OE2	2.15	0.63
2:K7:267:PHE:HB2	2:K7:384:ILE:HD12	1.80	0.63
1:K8:375:GLN:HB2	1:K8:419:VAL:HG23	1.79	0.63
1:L0:339:SER:H	34:7R:140:ASN:ND2	1.96	0.63
1:N8:153:SER:HA	1:N8:195:ASN:HD22	1.63	0.63
1:N8:334:GLN:HE22	1:N8:348:ASN:H	1.45	0.63
1:O2:178:THR:HG22	2:O3:352:LYS:HZ3	1.62	0.63
2:O7:90:GLU:HG3	2:O7:121:ARG:NH1	2.13	0.63
1:P6:248:ALA:HA	1:P6:252:LYS:HD2	1.81	0.63
2:Q3:381:SER:OG	2:Q3:382:THR:N	2.29	0.63
2:R3:410:GLY:O	17:5T:119:LYS:HE2	1.98	0.63
2:S1:9:ILE:HD13	2:S1:150:GLY:HA2	1.80	0.63
2:T7:286:LEU:O	2:T7:373:ARG:NH1	2.31	0.63
2:U9:5:ILE:HG22	2:U9:64:ARG:HB3	1.80	0.63
2:W7:88:HIS:HB3	2:W7:91:GLN:HB2	1.80	0.63
1:X0:42:LEU:CB	8:4X:97:PHE:CE2	2.74	0.63
1:X2:249:ASP:H	1:X2:252:LYS:HD3	1.64	0.63
1:X8:397:TRP:HE1	2:X9:260:VAL:HB	1.64	0.63
2:Y9:33:ASP:O	2:Y9:60:LYS:NZ	2.32	0.63
1:0A:20:PHE:CE1	1:0A:233:MET:HG2	2.34	0.63
1:0E:66:MET:HE1	1:0E:112:LEU:HD21	1.81	0.63
1:0Q:3:GLU:HB2	1:0Q:130:LEU:HA	1.80	0.63
1:0S:2:ARG:HE	1:0S:240:LEU:HD22	1.62	0.63
2:1D:344:VAL:HG21	2:1D:346:TRP:CD1	2.33	0.63
2:1N:85:GLN:O	2:2D:283:HIS:NE2	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2N:234:VAL:O	2:2N:237:SER:OG	2.14	0.63
1:2U:34:GLY:O	1:2U:58:ARG:HA	1.98	0.63
2:2V:71:GLU:HB3	2:2V:98:ASP:OD1	1.99	0.63
2:3B:223:THR:HA	1:3C:323:THR:HG22	1.81	0.63
1:3I:77:ARG:HH22	3:3Z:18:LYS:HB3	1.64	0.63
1:3K:2:ARG:HE	1:3K:240:LEU:HD22	1.64	0.63
8:4W:463:THR:HG22	8:4W:464:VAL:HG22	1.78	0.63
18:5Z:101:LYS:O	24:6W:178:ASN:ND2	2.31	0.63
20:6F:125:LYS:CD	20:6F:344:LEU:HD21	2.29	0.63
24:6V:574:ARG:O	24:6V:578:ILE:HG12	1.99	0.63
24:6W:378:TRP:O	24:6W:382:ASN:ND2	2.32	0.63
24:6Y:456:ASP:O	24:6Y:459:LYS:NZ	2.31	0.63
34:7S:123:ASN:HA	34:7S:126:LYS:HG2	1.80	0.63
38:8A:73:TRP:CE2	38:8A:76:ASP:HB3	2.33	0.63
2:C1:206:ASN:ND2	41:C1:501:GTP:O2'	2.31	0.63
1:C2:320:ARG:NE	18:6D:52:ALA:O	2.31	0.63
1:G2:52:ASN:OD1	1:G2:62:ARG:NH2	2.32	0.63
2:I3:222:PRO:HD2	1:I4:324:LYS:HE3	1.81	0.63
1:I8:58:ARG:HG2	1:K4:280:GLN:HE22	1.63	0.63
1:I8:113:ILE:HD13	1:I8:150:LEU:HD22	1.81	0.63
1:J4:274:THR:HG21	1:J4:282:ARG:HD3	1.79	0.63
2:K7:121:ARG:HD2	2:K7:121:ARG:O	1.97	0.63
2:L3:222:PRO:HD2	1:L4:324:LYS:HE3	1.80	0.63
2:L9:109:THR:OG1	2:L9:411:GLU:OE2	2.14	0.63
1:N8:2:ARG:HE	1:N8:240:LEU:HD22	1.64	0.63
1:P4:45:GLU:HG3	1:P4:46:ARG:HG2	1.79	0.63
2:R7:287:SER:N	2:R7:290:GLU:OE2	2.32	0.63
2:R9:196:GLU:HA	17:5U:84:ARG:HD2	1.79	0.63
1:S4:287:PRO:HA	1:S4:329:GLN:HE22	1.64	0.63
1:S6:209:ASP:OD1	1:S6:213:ARG:HD3	1.99	0.63
2:T7:53:PHE:HB3	2:T7:61:HIS:HB3	1.80	0.63
1:U8:140:GLY:O	1:U8:184:ASN:ND2	2.29	0.63
2:W9:406:HIS:HA	2:W9:409:VAL:HG22	1.81	0.63
1:X2:252:LYS:HD2	1:X2:252:LYS:H	1.63	0.63
1:X6:5:VAL:HG23	1:X6:62:ARG:HG2	1.80	0.63
1:X8:184:ASN:OD1	1:X8:398:TYR:OH	2.15	0.63
2:Y1:417:GLU:HA	2:Y1:420:GLU:HG2	1.81	0.63
2:Y9:72:PRO:HD2	1:Z0:2:ARG:NH1	2.13	0.63
1:0A:2:ARG:HB3	1:0A:131:GLN:HB2	1.79	0.63
1:0K:388:MET:N	1:0K:388:MET:HE1	2.14	0.63
1:0M:207:LEU:HD11	1:0M:229:ILE:HD11	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2I:125:GLU:OE2	1:2I:159:TYR:OH	2.16	0.63
2:2P:230:LEU:HD11	2:2P:275:ILE:HD13	1.81	0.63
2:3F:124:LYS:HZ2	3:3V:36:PHE:HD1	1.45	0.63
2:3N:189:LEU:HD11	2:3N:418:PHE:HE1	1.63	0.63
1:3O:211:CYS:SG	1:3O:220:PRO:HB3	2.39	0.63
6:4O:89:ARG:NH1	30:7K:450:GLN:O	2.31	0.63
6:4P:47:ASN:O	6:4P:51:VAL:HG23	1.98	0.63
11:5E:14:TRP:CZ3	11:5E:103:VAL:HG23	2.33	0.63
14:5L:112:SER:CA	14:5L:155:PHE:CD2	2.80	0.63
14:5L:587:CYS:HB3	14:5L:589:PHE:HD1	1.63	0.63
15:5O:5:LEU:HD11	15:5O:82:PHE:HZ	1.64	0.63
15:5O:73:LEU:H	15:5O:73:LEU:HD23	1.62	0.63
15:5O:93:ARG:HG2	15:5O:164:VAL:HG22	1.81	0.63
15:5O:97:MET:SD	15:5O:206:HIS:HB3	2.39	0.63
23:6Q:5:GLN:NE2	23:6Q:9:ASN:OD1	2.30	0.63
24:6T:482:ILE:HD13	24:6T:498:LEU:HD23	1.80	0.63
24:6V:613:LYS:O	24:6V:617:ASP:HB2	1.98	0.63
24:6W:96:LEU:HB2	24:6W:123:TYR:HB3	1.80	0.63
31:7N:114:GLU:O	31:7N:114:GLU:HG2	1.99	0.63
1:A7:11:GLN:N	39:A7:501:GDP:O2B	2.26	0.63
2:B0:226:ASN:ND2	18:5Y:51:MET:SD	2.71	0.63
1:G2:135:VAL:HG21	1:G2:152:ILE:HD11	1.80	0.63
1:H4:113:ILE:HD13	1:H4:150:LEU:HD22	1.80	0.63
1:I0:219:THR:H	24:6X:489:ASN:HB3	1.64	0.63
2:I3:90:GLU:HB3	2:I3:121:ARG:HH22	1.63	0.63
2:J1:392:ASP:OD2	2:J1:422:ARG:NH1	2.32	0.63
2:K9:189:LEU:HD11	2:K9:418:PHE:HE1	1.63	0.63
2:L5:9:ILE:HD13	2:L5:150:GLY:HA2	1.79	0.63
2:M7:406:HIS:HA	2:M7:409:VAL:HG22	1.80	0.63
2:M9:222:PRO:HD2	1:N0:324:LYS:HE3	1.80	0.63
1:N2:391:ARG:HH22	2:N3:435:VAL:HA	1.64	0.63
1:O6:2:ARG:HE	1:O6:240:LEU:HD22	1.63	0.63
1:P8:53:GLU:OE1	7:4R:109:GLN:HG2	1.98	0.63
2:Q1:51:THR:HG21	2:Q1:243:ARG:HG2	1.80	0.63
2:Q1:392:ASP:OD2	2:Q1:422:ARG:NH1	2.32	0.63
2:Q9:409:VAL:HG11	17:5S:115:ALA:HB3	1.79	0.63
1:R8:101:TRP:HD1	1:R8:145:SER:HG	1.45	0.63
2:S7:414:GLU:N	2:S7:414:GLU:OE1	2.31	0.63
1:T6:139:LEU:HD12	1:T6:170:VAL:HG12	1.80	0.63
1:U2:226:ASN:HD21	39:U2:502:GDP:HN1	1.45	0.63
1:X0:107:THR:OG1	1:X0:401:GLU:OE2	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z6:52:ASN:OD1	1:Z6:62:ARG:NH2	2.32	0.63
2:0N:336:LYS:O	2:0N:339:ARG:NH2	2.30	0.63
2:1F:392:ASP:OD2	2:1F:422:ARG:NH1	2.32	0.63
1:2A:114:ASP:HB2	38:8A:101:ASP:HB3	1.81	0.63
1:2E:12:CYS:SG	1:2E:138:SER:HB3	2.39	0.63
2:2J:161:TYR:CD1	38:8C:80:TYR:HB3	2.33	0.63
2:2Z:88:HIS:ND1	2:2Z:89:PRO:CD	2.60	0.63
2:3L:286:LEU:O	2:3L:373:ARG:NH1	2.31	0.63
10:5C:477:LYS:NZ	10:5D:151:ASN:OD1	2.31	0.63
14:5M:587:CYS:HB3	14:5M:589:PHE:HD1	1.63	0.63
23:6S:5:GLN:NE2	23:6S:9:ASN:OD1	2.30	0.63
24:6X:130:MET:HE1	24:6X:161:PHE:HB2	1.81	0.63
29:7J:319:ILE:CG2	29:7J:320:PRO:CD	2.60	0.63
32:7P:129:ARG:HD2	32:7P:131:GLN:HE21	1.62	0.63
2:F9:56:THR:HA	2:H5:285:GLN:HB2	1.81	0.63
1:G6:77:ARG:HG3	1:G6:90:PHE:HE2	1.63	0.63
1:G8:334:GLN:HE22	1:G8:348:ASN:H	1.47	0.63
2:H1:11:GLN:NE2	1:H2:247:ASN:OD1	2.32	0.63
2:H3:85:GLN:OE1	2:H3:85:GLN:HA	1.99	0.63
1:H6:218:THR:HB	24:6V:488:ARG:HB3	1.81	0.63
2:H9:90:GLU:HG2	2:H9:121:ARG:HH12	1.63	0.63
2:I3:406:HIS:HA	2:I3:409:VAL:HG22	1.81	0.63
1:I8:248:ALA:HA	1:I8:252:LYS:HD2	1.80	0.63
2:J1:264:ARG:NH2	2:J1:431:ASP:OD2	2.32	0.63
2:K5:109:THR:OG1	2:K5:411:GLU:OE2	2.15	0.63
1:K8:207:LEU:HB3	1:K8:225:LEU:HD22	1.79	0.63
1:L0:134:GLN:HE21	1:L0:167:PHE:HE2	1.45	0.63
2:L3:287:SER:N	2:L3:290:GLU:OE2	2.32	0.63
2:L7:370:LYS:HD2	6:4P:201:VAL:HG11	1.80	0.63
2:M3:50:ASN:O	2:M3:64:ARG:NH2	2.32	0.63
1:M6:113:ILE:HA	1:M6:116:VAL:HG12	1.79	0.63
2:N1:285:GLN:HG3	30:7L:333:VAL:HG21	1.80	0.63
2:O5:405:VAL:HG13	2:O5:418:PHE:HE2	1.63	0.63
1:P6:2:ARG:HB3	1:P6:131:GLN:HB2	1.79	0.63
1:P8:135:VAL:HG21	1:P8:152:ILE:HD11	1.80	0.63
2:R5:42:ILE:HD11	11:5E:129:LYS:HD2	1.81	0.63
2:S5:413:MET:HB3	2:S5:417:GLU:OE2	1.99	0.63
1:W0:140:GLY:O	1:W0:184:ASN:ND2	2.32	0.63
2:W3:72:PRO:HD2	1:W4:2:ARG:HH12	1.64	0.63
1:W6:377:MET:SD	1:W6:380:ARG:NH2	2.72	0.63
1:X4:2:ARG:HE	1:X4:240:LEU:HD22	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0E:5:VAL:HG23	1:0E:62:ARG:HG2	1.80	0.63
2:1H:253:THR:HA	2:1H:256:GLN:NE2	2.13	0.63
1:1M:2:ARG:HH21	1:1M:240:LEU:HA	1.64	0.63
2:1R:269:LEU:HD11	2:1R:384:ILE:HG23	1.81	0.63
1:2C:207:LEU:HB3	1:2C:225:LEU:HD22	1.81	0.63
2:2D:428:LEU:HG	2:2D:432:PHE:HE2	1.64	0.63
1:2I:135:VAL:HG21	1:2I:152:ILE:HD11	1.78	0.63
2:2L:156:ARG:NH2	38:8C:29:GLY:HA2	2.14	0.63
2:2V:109:THR:OG1	2:2V:411:GLU:OE2	2.13	0.63
1:2W:345:ILE:O	1:2W:348:ASN:ND2	2.32	0.63
2:2Z:335:ILE:HG23	2:2Z:341:ILE:HD11	1.80	0.63
1:3S:117:LEU:HA	1:3S:120:VAL:HG12	1.81	0.63
14:5N:587:CYS:HB3	14:5N:589:PHE:HD1	1.63	0.63
15:5P:280:GLU:HG3	19:6E:114:GLU:HG3	1.81	0.63
18:5X:180:ARG:HH21	18:5X:180:ARG:CG	2.10	0.63
18:5Y:5:VAL:HG12	18:5Y:5:VAL:O	1.99	0.63
19:6E:92:ARG:HG3	19:6E:99:ARG:NE	2.14	0.63
24:6T:469:PHE:CD2	24:6T:482:ILE:HG23	2.34	0.63
31:7N:80:PRO:O	31:7N:83:THR:HG22	1.98	0.63
1:9:78:SER:OG	24:6X:149:LYS:HG3	1.99	0.63
1:A3:340:TYR:CD1	3:4H:104:PRO:HD3	2.33	0.63
2:F3:364:PRO:HG2	22:6P:123:PRO:HB2	1.79	0.63
2:G5:66:ILE:HG21	2:G5:122:ILE:HD11	1.81	0.63
1:J0:220:PRO:HD2	2:J1:326:LYS:HD3	1.80	0.63
1:J4:309:ARG:NH1	1:J4:339:SER:O	2.32	0.63
1:J8:113:ILE:HA	1:J8:116:VAL:HG12	1.81	0.63
2:L3:267:PHE:HB2	2:L3:384:ILE:HD12	1.81	0.63
1:M4:177:ASP:O	2:M5:352:LYS:HA	1.99	0.63
1:O2:130:LEU:HB2	1:O2:162:ARG:HE	1.63	0.63
2:O7:286:LEU:O	2:O7:373:ARG:NH1	2.32	0.63
1:O8:273:LEU:H	1:O8:292:GLN:HE22	1.46	0.63
2:P9:15:GLN:HB3	2:P9:228:ASN:HD21	1.63	0.63
2:R1:290:GLU:HA	2:R1:293:ASN:HD22	1.64	0.63
1:V6:113:ILE:HA	1:V6:116:VAL:HG12	1.81	0.63
1:W0:207:LEU:HD11	1:W0:229:ILE:HD11	1.80	0.63
1:W2:309:ARG:NH1	1:W2:339:SER:O	2.32	0.63
1:W8:128:ASP:OD1	1:W8:129:CYS:N	2.32	0.63
2:X3:258:ASN:HB3	2:X3:352:LYS:HG3	1.80	0.63
1:Y0:192:LEU:HD22	1:Y0:196:ALA:HB2	1.81	0.63
1:Z2:52:ASN:OD1	1:Z2:62:ARG:NH2	2.32	0.63
2:Z3:15:GLN:HB3	2:Z3:228:ASN:HD21	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z5:286:LEU:O	2:Z5:373:ARG:NH1	2.32	0.63
1:0E:52:ASN:OD1	1:0E:62:ARG:NH2	2.32	0.63
2:0F:313:MET:HG3	2:0F:346:TRP:CH2	2.34	0.63
2:0L:176:GLN:HE22	2:0L:304:LYS:HE2	1.63	0.63
1:0O:33:THR:O	1:0O:58:ARG:NH2	2.32	0.63
2:0P:392:ASP:OD2	2:0P:422:ARG:NH1	2.31	0.63
2:0Z:317:LEU:HB3	2:0Z:319:TYR:HE1	1.64	0.63
2:1H:387:ILE:HG12	2:1H:390:ARG:HH22	1.64	0.63
1:1M:173:PRO:HB3	1:1M:384:GLN:HE22	1.64	0.63
2:1N:223:THR:HG22	2:1N:224:TYR:H	1.63	0.63
1:1U:289:LEU:HD21	1:1U:363:MET:HG2	1.79	0.63
2:1V:277:SER:OG	2:1V:280:LYS:HG2	1.99	0.63
1:3C:375:GLN:NE2	1:3C:376:GLU:OE1	2.32	0.63
2:3D:79:ARG:NH1	2:3D:94:SER:OG	2.32	0.63
1:3S:172:SER:HB2	1:3S:205:GLU:HB2	1.81	0.63
14:5M:229:LYS:O	14:5M:230:ASN:O	2.16	0.63
22:6J:184:ALA:HA	22:6J:187:MET:HE2	1.81	0.63
22:6P:227:TYR:HD1	22:6P:238:LEU:HD21	1.64	0.63
24:6T:470:ILE:HD12	24:6T:485:PRO:CG	2.28	0.63
24:6T:482:ILE:HD12	24:6T:482:ILE:N	2.13	0.63
36:7V:57:ASP:O	36:7V:61:GLU:HG2	1.99	0.63
36:7W:57:ASP:O	36:7W:61:GLU:HG2	1.99	0.63
1:B5:362:LYS:CE	18:6A:24:ARG:HD3	2.28	0.62
2:H7:287:SER:N	2:H7:290:GLU:OE2	2.32	0.62
2:I1:195:LEU:HD21	2:I1:264:ARG:HH21	1.64	0.62
2:I3:264:ARG:NH2	2:I3:431:ASP:OD2	2.32	0.62
1:I8:74:ASP:OD1	1:I8:77:ARG:NH1	2.31	0.62
1:J6:248:ALA:HA	1:J6:252:LYS:HD2	1.81	0.62
1:K0:69:GLU:C	1:K0:92:PHE:HZ	2.01	0.62
2:K7:167:LEU:HD13	2:K7:200:VAL:HB	1.81	0.62
2:M9:317:LEU:HB3	2:M9:319:TYR:HE1	1.63	0.62
1:Q8:361:LEU:HG	24:6T:11:LEU:HD22	1.80	0.62
2:R7:90:GLU:HB2	2:R7:121:ARG:HH22	1.63	0.62
1:S2:52:ASN:OD1	1:S2:62:ARG:NH2	2.32	0.62
1:U6:3:GLU:HB3	1:U6:130:LEU:HA	1.81	0.62
1:U6:282:ARG:NH1	1:U6:288:GLU:HB3	2.04	0.62
2:V3:56:THR:HA	2:W9:285:GLN:HB2	1.80	0.62
1:V6:159:TYR:HB3	1:V6:162:ARG:HD3	1.81	0.62
1:W6:107:THR:OG1	1:W6:401:GLU:OE2	2.12	0.62
2:X5:83:TYR:HB3	2:X5:86:LEU:HB3	1.80	0.62
1:X6:244:GLY:HA2	1:X6:355:ASP:HB2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y0:177:ASP:O	2:Y1:352:LYS:HA	1.98	0.62
2:Y9:90:GLU:O	2:Y9:121:ARG:NH1	2.30	0.62
2:0L:407:TRP:HZ2	1:0M:258:ILE:HB	1.64	0.62
1:0O:309:ARG:H	1:0O:372:THR:HG22	1.64	0.62
2:0P:90:GLU:O	2:0P:121:ARG:NH1	2.32	0.62
1:0Q:211:CYS:HA	1:0Q:215:LEU:HB2	1.81	0.62
1:0W:309:ARG:NH1	1:0W:339:SER:O	2.32	0.62
2:1L:72:PRO:HG3	1:1M:1:MET:HG2	1.81	0.62
1:1S:156:ARG:NH1	1:1S:197:ASP:OD1	2.32	0.62
1:2M:207:LEU:HB3	1:2M:225:LEU:HD22	1.81	0.62
2:2T:308:ARG:HH21	38:8A:28:THR:CG2	2.05	0.62
1:3A:139:LEU:HD12	1:3A:170:VAL:HG12	1.79	0.62
5:4L:292:ALA:HA	5:4L:295:LYS:HD3	1.81	0.62
8:4W:467:PRO:HD3	8:4X:124:LEU:HD21	1.80	0.62
11:5E:184:VAL:HG21	11:5E:226:LEU:HD11	1.80	0.62
13:5J:92:GLU:H	13:5J:92:GLU:CD	2.02	0.62
13:5K:92:GLU:H	13:5K:92:GLU:CD	2.02	0.62
15:5O:101:ASP:OD2	15:5O:101:ASP:N	2.19	0.62
22:6K:311:VAL:HA	22:6K:321:LEU:HD23	1.80	0.62
22:6N:136:ASN:HD22	22:6N:208:ARG:HH22	1.44	0.62
24:6V:484:GLU:O	24:6V:484:GLU:HG3	1.98	0.62
1:A3:383:GLU:OE2	3:4H:50:LYS:CE	2.48	0.62
1:E6:52:ASN:HA	22:6L:181:ASN:ND2	1.28	0.62
2:F5:221:ARG:NH1	22:6I:177:LEU:O	2.31	0.62
2:H1:76:ASP:OD2	1:H2:46:ARG:NH2	2.32	0.62
1:I4:219:THR:HA	2:I5:326:LYS:HZ1	1.63	0.62
2:J1:222:PRO:HD2	1:J2:324:LYS:HE3	1.80	0.62
2:J3:14:ILE:HD11	2:J3:74:VAL:HG13	1.80	0.62
2:J7:282:TYR:CE1	5:4M:209:LEU:HD23	2.34	0.62
1:K0:113:ILE:HA	1:K0:116:VAL:HG12	1.80	0.62
1:M2:113:ILE:HA	1:M2:116:VAL:HG22	1.81	0.62
2:M9:195:LEU:HD21	2:M9:264:ARG:HH11	1.62	0.62
2:P5:15:GLN:HB3	2:P5:228:ASN:HD21	1.63	0.62
2:Q3:83:TYR:HB3	2:Q3:86:LEU:HB3	1.81	0.62
2:Q3:308:ARG:NH1	2:V1:282:TYR:OH	2.28	0.62
1:R4:156:ARG:NH1	1:R4:197:ASP:OD1	2.32	0.62
2:T5:267:PHE:HB2	2:T5:384:ILE:HD12	1.80	0.62
2:V1:88:HIS:CD2	2:V1:89:PRO:CD	2.79	0.62
1:X0:335:ASN:O	1:X0:338:SER:OG	2.18	0.62
1:X2:3:GLU:HB2	1:X2:130:LEU:HA	1.81	0.62
2:X7:9:ILE:HG13	2:X7:68:LEU:HD21	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z6:116:VAL:HA	1:Z6:119:VAL:HG12	1.81	0.62
1:0A:113:ILE:HD11	1:0A:151:LEU:HA	1.82	0.62
1:0C:273:LEU:H	1:0C:292:GLN:HE22	1.45	0.62
2:0N:100:ALA:HA	1:0O:252:LYS:HE2	1.80	0.62
2:0N:344:VAL:HG21	2:0N:346:TRP:HE3	1.64	0.62
2:0R:88:HIS:HB3	2:1H:283:HIS:ND1	2.13	0.62
2:0V:3:GLU:HG3	2:0V:129:CYS:HB2	1.81	0.62
1:1K:35:THR:HG1	1:1K:37:HIS:HE2	1.47	0.62
2:2F:204:LEU:HD23	2:2F:231:ILE:HD12	1.79	0.62
2:2H:279:GLU:OE1	10:5B:167:ILE:CD1	2.47	0.62
2:2Z:399:TYR:O	2:2Z:402:ARG:NH1	2.32	0.62
1:3I:52:ASN:H	1:3I:52:ASN:ND2	1.96	0.62
1:3M:249:ASP:OD1	1:3M:250:LEU:N	2.30	0.62
13:5H:92:GLU:CD	13:5H:92:GLU:H	2.02	0.62
14:5L:511:THR:HB	14:5L:531:ASP:HB3	1.81	0.62
19:6E:29:GLU:OE2	19:6E:29:GLU:HA	1.99	0.62
24:6X:442:ASP:OD1	24:6X:443:LYS:HG3	1.99	0.62
1:G8:211:CYS:HA	1:G8:215:LEU:HB2	1.81	0.62
2:H9:286:LEU:O	2:H9:373:ARG:NH1	2.32	0.62
2:J1:283:HIS:HD2	2:J1:284:GLU:HB2	1.64	0.62
2:J7:267:PHE:HB2	2:J7:384:ILE:HD12	1.81	0.62
2:K1:213:CYS:HA	2:K1:217:LEU:HB2	1.81	0.62
2:L5:98:ASP:OD1	2:L5:99:ALA:N	2.32	0.62
2:M9:396:ASP:HB2	2:M9:422:ARG:HH12	1.64	0.62
1:N6:320:ARG:CZ	32:7O:64:THR:HG22	2.29	0.62
2:O3:89:PRO:HG2	2:Q1:279:GLU:OE1	1.99	0.62
1:O6:253:LEU:HD11	1:O6:316:LEU:HD11	1.82	0.62
2:P5:69:ASP:OD1	2:P5:70:LEU:N	2.32	0.62
1:R6:238:CYS:SG	1:R6:318:ARG:NE	2.73	0.62
2:R7:27:GLU:OE1	2:R7:243:ARG:NH1	2.32	0.62
1:S6:173:PRO:HB3	1:S6:384:GLN:HE22	1.62	0.62
2:U5:88:HIS:HB3	2:W1:283:HIS:ND1	2.14	0.62
2:U9:73:THR:O	2:U9:77:GLU:HG2	1.98	0.62
2:W1:305:CYS:HB3	2:W1:387:ILE:HD11	1.80	0.62
1:W8:286:VAL:HG21	1:W8:325:GLU:HB3	1.81	0.62
1:X2:309:ARG:NH1	1:X2:339:SER:O	2.32	0.62
1:X2:320:ARG:HH12	1:X2:357:PRO:HD3	1.63	0.62
2:0B:268:MET:HE2	2:0B:380:ASN:HB2	1.81	0.62
2:1N:85:GLN:CA	2:1N:85:GLN:HE21	2.12	0.62
2:1P:387:ILE:HG12	2:1P:390:ARG:HH22	1.63	0.62
2:1V:170:THR:OG1	2:1V:203:MET:SD	2.57	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2N:154:LEU:HG	2:2N:197:HIS:HB3	1.81	0.62
2:2R:132:LEU:HD22	2:2R:164:LYS:HD3	1.80	0.62
1:3C:345:ILE:O	1:3C:348:ASN:ND2	2.32	0.62
2:3N:417:GLU:HA	2:3N:420:GLU:HG2	1.81	0.62
1:3S:362:LYS:HE2	38:8D:166:GLU:CB	2.30	0.62
3:3Z:17:VAL:HG23	3:3Z:18:LYS:HG3	1.81	0.62
3:3Z:63:SER:OG	3:3Z:68:SER:O	2.16	0.62
3:4D:63:SER:OG	3:4D:68:SER:O	2.16	0.62
6:4O:421:ARG:O	6:4O:425:GLU:HG2	1.99	0.62
11:5E:14:TRP:CH2	11:5E:103:VAL:CG2	2.83	0.62
13:5I:92:GLU:CD	13:5I:92:GLU:H	2.02	0.62
22:6K:180:SER:O	22:6K:183:ASN:ND2	2.31	0.62
23:6R:48:TYR:CE2	23:6R:52:LEU:HD12	2.34	0.62
24:6X:95:VAL:CG1	24:6X:124:TYR:HD2	2.09	0.62
38:8B:160:ASP:N	38:8B:160:ASP:OD2	2.32	0.62
38:8D:73:TRP:CD1	38:8D:75:SER:HB2	2.34	0.62
2:E5:364:PRO:HG2	22:6L:123:PRO:HB2	1.80	0.62
1:H8:177:ASP:O	2:H9:352:LYS:HA	1.99	0.62
2:I5:142:GLY:HA2	2:I5:183:GLU:HG3	1.81	0.62
1:I8:391:ARG:HD2	2:I9:346:TRP:CZ2	2.34	0.62
2:I9:132:LEU:HD22	2:I9:164:LYS:HD3	1.82	0.62
2:J5:33:ASP:O	2:J5:60:LYS:NZ	2.33	0.62
1:K0:345:ILE:O	1:K0:348:ASN:ND2	2.29	0.62
2:M9:90:GLU:O	2:M9:121:ARG:NH1	2.31	0.62
2:M9:396:ASP:HB2	2:M9:422:ARG:NH1	2.15	0.62
2:N9:244:PHE:HB2	2:N9:356:ASN:HD21	1.63	0.62
1:P8:55:THR:HG22	7:4R:111:ASP:OD1	1.98	0.62
2:Q3:14:ILE:HD11	2:Q3:74:VAL:HG22	1.81	0.62
1:R2:276:ARG:HH22	7:4R:70:GLN:HE21	1.47	0.62
2:S7:98:ASP:OD1	2:S7:99:ALA:N	2.33	0.62
2:T3:337:THR:HG23	13:5J:21:ASN:HD22	1.63	0.62
1:T4:285:THR:HG23	1:T4:288:GLU:H	1.63	0.62
2:T5:175:PRO:O	2:T5:394:LYS:NZ	2.32	0.62
1:T6:409:THR:HB	13:5K:50:ARG:HD3	1.80	0.62
2:U3:90:GLU:HB3	2:V9:283:HIS:HE1	1.65	0.62
2:U9:195:LEU:HD21	2:U9:264:ARG:HH11	1.63	0.62
2:V9:399:TYR:OH	2:V9:415:GLU:OE2	2.17	0.62
2:W1:287:SER:N	2:W1:290:GLU:OE2	2.23	0.62
1:W2:52:ASN:OD1	1:W2:62:ARG:NH2	2.32	0.62
1:X8:198:GLU:HB3	1:X8:258:ILE:HD11	1.81	0.62
2:Z3:9:ILE:HG23	2:Z3:68:LEU:HD11	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z4:190:HIS:CD2	1:Z4:411:ALA:HA	2.35	0.62
2:0F:399:TYR:O	2:0F:402:ARG:NH1	2.32	0.62
2:1L:392:ASP:OD2	2:1L:422:ARG:NH1	2.33	0.62
1:1M:140:GLY:O	1:1M:184:ASN:ND2	2.33	0.62
2:1N:5:ILE:HG22	2:1N:64:ARG:HB3	1.79	0.62
2:1N:35:GLN:HB3	2:1N:59:GLY:O	1.99	0.62
2:1N:313:MET:HE1	2:1N:346:TRP:HZ2	1.42	0.62
1:1Q:375:GLN:HB2	1:1Q:419:VAL:HG23	1.82	0.62
1:1Q:418:LEU:HG	1:1Q:422:TYR:HE2	1.64	0.62
2:1T:381:SER:OG	2:1T:382:THR:N	2.33	0.62
1:1W:139:LEU:HD12	1:1W:170:VAL:HG12	1.81	0.62
1:1W:334:GLN:HE22	1:1W:348:ASN:H	1.44	0.62
1:2Q:211:CYS:SG	1:2Q:220:PRO:HB3	2.38	0.62
2:2T:214:ARG:NH1	38:8A:17:GLY:O	2.33	0.62
1:3A:334:GLN:HE22	1:3A:348:ASN:H	1.46	0.62
1:3G:172:SER:HB3	1:3G:175:VAL:HG22	1.79	0.62
2:3J:122:ILE:HA	2:3J:125:LEU:HD12	1.79	0.62
3:3V:17:VAL:HG23	3:3V:18:LYS:HG3	1.81	0.62
3:3X:17:VAL:HG23	3:3X:18:LYS:HG3	1.81	0.62
3:4B:17:VAL:HG23	3:4B:18:LYS:HG3	1.81	0.62
3:4D:17:VAL:HG23	3:4D:18:LYS:HG3	1.81	0.62
3:4H:17:VAL:HG23	3:4H:18:LYS:HG3	1.81	0.62
3:4H:63:SER:OG	3:4H:68:SER:O	2.16	0.62
7:4R:124:GLY:HA2	11:5E:174:ARG:HB3	1.80	0.62
1:D8:56:GLY:HA2	22:6P:54:ARG:HH21	1.63	0.62
2:H1:241:SER:O	2:H1:249:ASN:ND2	2.33	0.62
2:H1:244:PHE:HB2	2:H1:356:ASN:HD21	1.65	0.62
1:H2:113:ILE:HG13	1:H2:117:LEU:HD23	1.82	0.62
1:H4:276:ARG:NH2	24:6U:489:ASN:C	2.52	0.62
1:I0:218:THR:HG21	24:6X:489:ASN:N	2.12	0.62
1:I2:33:THR:O	1:I2:58:ARG:NH2	2.33	0.62
1:I4:220:PRO:HD2	2:I5:326:LYS:HD3	1.81	0.62
1:J6:218:THR:HG23	1:J6:219:THR:HG22	1.81	0.62
1:K0:119:VAL:O	1:K0:123:GLU:HG2	1.99	0.62
2:K3:182:VAL:HG12	2:K3:185:TYR:HB2	1.82	0.62
1:K4:52:ASN:OD1	1:K4:62:ARG:NH2	2.32	0.62
2:L1:372:GLN:NE2	6:4O:360:GLU:OE2	2.33	0.62
2:M5:58:ALA:O	37:7Y:215:HIS:HB2	1.99	0.62
2:N3:90:GLU:OE1	2:N3:91:GLN:NE2	2.32	0.62
1:N8:86:ARG:NH2	1:P6:281:TYR:O	2.32	0.62
1:N8:272:PRO:HB2	1:N8:282:ARG:HH12	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O5:123:ARG:HG3	2:O5:123:ARG:HH11	1.64	0.62
2:P9:9:ILE:HG22	2:P9:146:GLY:HA2	1.82	0.62
1:Q0:392:LYS:HD2	1:Q0:395:LEU:HD22	1.81	0.62
2:Q3:388:PHE:HB3	2:Q3:425:LEU:HD11	1.81	0.62
2:R3:156:ARG:HA	2:R3:159:VAL:HG12	1.82	0.62
1:S8:2:ARG:HB3	1:S8:131:GLN:HB2	1.80	0.62
2:S9:287:SER:N	2:S9:290:GLU:OE2	2.27	0.62
2:T1:344:VAL:HG22	2:T1:346:TRP:H	1.64	0.62
1:T2:68:LEU:HD12	1:T2:97:ALA:HB2	1.81	0.62
2:T3:372:GLN:HE22	7:4U:84:THR:HG21	1.63	0.62
1:V6:211:CYS:HA	1:V6:215:LEU:HB2	1.80	0.62
1:X0:212:PHE:HE1	1:X0:220:PRO:HG3	1.64	0.62
1:Y6:224:ASP:OD1	1:Y6:225:LEU:N	2.33	0.62
1:OE:270:PHE:CD2	1:OE:273:LEU:HD11	2.34	0.62
2:OL:9:ILE:HG22	2:OL:146:GLY:HA2	1.81	0.62
2:OP:56:THR:HA	2:1F:285:GLN:HB2	1.81	0.62
2:1B:90:GLU:O	2:1B:121:ARG:NH1	2.32	0.62
2:1P:287:SER:N	2:1P:290:GLU:OE2	2.32	0.62
1:1W:350:LYS:NZ	1:1W:351:SER:O	2.32	0.62
2:2J:278:ALA:HA	2:2J:369:ALA:HB2	1.79	0.62
2:2N:120:ASP:HB3	38:8D:73:TRP:CD1	2.34	0.62
2:2N:287:SER:N	2:2N:290:GLU:OE2	2.31	0.62
1:2Y:211:CYS:HA	1:2Y:215:LEU:HB2	1.80	0.62
2:3F:90:GLU:O	2:3F:121:ARG:NH1	2.32	0.62
2:3J:405:VAL:HG13	2:3J:418:PHE:HE2	1.64	0.62
1:3K:218:THR:OG1	17:5T:213:GLU:OE1	2.16	0.62
1:3M:125:GLU:OE1	4:4C:45:SER:OG	2.16	0.62
3:3V:63:SER:OG	3:3V:68:SER:O	2.16	0.62
3:3X:63:SER:OG	3:3X:68:SER:O	2.16	0.62
3:4B:63:SER:OG	3:4B:68:SER:O	2.16	0.62
3:4F:17:VAL:HG23	3:4F:18:LYS:HG3	1.81	0.62
3:4F:63:SER:OG	3:4F:68:SER:O	2.16	0.62
10:5C:478:LEU:HD23	10:5C:481:LEU:HD12	1.80	0.62
14:5L:516:VAL:HG22	14:5L:527:THR:HG22	1.81	0.62
14:5M:516:VAL:HG22	14:5M:527:THR:HG22	1.81	0.62
24:6W:354:ARG:HB2	24:6W:357:LEU:HG	1.82	0.62
24:6Z:483:PHE:HB2	24:6Z:496:LYS:HA	1.81	0.62
36:7W:51:LYS:HB2	36:7W:54:GLU:HB3	1.81	0.62
1:A7:94:GLN:HG2	24:6T:250:LEU:HD11	1.81	0.62
2:E9:364:PRO:HG2	22:6N:123:PRO:HB2	1.80	0.62
2:G3:109:THR:OG1	2:G3:411:GLU:OE2	2.17	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G5:282:TYR:CE1	22:6N:134:ASN:ND2	2.68	0.62
2:G9:195:LEU:HD11	2:G9:264:ARG:HH11	1.65	0.62
1:M0:221:THR:OG1	29:7I:97:ARG:NH1	2.33	0.62
1:M2:207:LEU:HB3	1:M2:225:LEU:HD22	1.80	0.62
2:O1:98:ASP:OD1	2:O1:99:ALA:N	2.33	0.62
2:O7:156:ARG:HA	2:O7:159:VAL:HG12	1.82	0.62
2:O9:259:LEU:HD21	2:O9:316:CYS:HB2	1.80	0.62
1:S2:139:LEU:HD12	1:S2:170:VAL:HG12	1.80	0.62
1:T2:292:GLN:HG2	1:T2:298:ASN:HD22	1.64	0.62
1:U6:177:ASP:O	2:U7:352:LYS:HA	1.99	0.62
2:U9:90:GLU:HB3	2:U9:121:ARG:NH2	2.15	0.62
2:V3:287:SER:OG	2:V3:290:GLU:OE1	2.12	0.62
2:W5:90:GLU:HB3	2:W5:121:ARG:NH1	2.15	0.62
1:Y8:86:ARG:HH21	1:0E:282:ARG:HA	1.64	0.62
2:0H:90:GLU:O	2:0H:121:ARG:NH1	2.33	0.62
1:0S:131:GLN:HE21	1:0S:250:LEU:HB2	1.62	0.62
1:1G:271:THR:OG1	1:1G:292:GLN:OE1	2.16	0.62
1:1S:113:ILE:HA	1:1S:116:VAL:HG22	1.82	0.62
2:1V:91:GLN:CA	2:1V:121:ARG:HH12	2.08	0.62
2:1Z:121:ARG:HE	2:1Z:124:LYS:HE3	1.64	0.62
2:1Z:262:TYR:HE1	2:1Z:264:ARG:HB2	1.65	0.62
2:2F:223:THR:HG23	2:2F:225:THR:H	1.65	0.62
2:2L:195:LEU:HD21	2:2L:264:ARG:HD2	1.81	0.62
2:2R:287:SER:N	2:2R:290:GLU:OE2	2.33	0.62
2:2T:255:PHE:HA	2:2T:259:LEU:HD13	1.81	0.62
2:3B:282:TYR:OH	10:5D:167:ILE:HD12	1.99	0.62
9:4Z:335:LEU:HB3	9:4Z:336:ARG:HH21	1.64	0.62
15:5O:73:LEU:H	15:5O:73:LEU:CD2	2.12	0.62
15:5P:344:ARG:NH1	15:5P:356:VAL:O	2.32	0.62
19:6E:96:ASP:N	19:6E:96:ASP:OD2	2.31	0.62
2:8:370:LYS:NZ	24:6W:92:ASP:OD1	2.31	0.62
2:A4:206:ASN:OD1	41:A4:501:GTP:N2	2.31	0.62
2:I9:336:LYS:O	2:I9:339:ARG:NH2	2.33	0.62
1:J4:77:ARG:HH21	1:J4:90:PHE:HD2	1.47	0.62
2:J9:326:LYS:HG3	2:J9:327:ASP:N	2.14	0.62
1:L2:391:ARG:HD2	2:L3:346:TRP:NE1	2.14	0.62
2:M5:132:LEU:HD22	2:M5:164:LYS:HD3	1.81	0.62
1:N6:178:THR:HG22	2:N7:352:LYS:HZ3	1.64	0.62
2:P3:69:ASP:OD1	2:P3:70:LEU:N	2.32	0.62
2:R7:92:LEU:N	2:R7:92:LEU:HD23	2.15	0.62
1:R8:93:GLY:HA2	13:5J:118:THR:HG23	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T2:309:ARG:NH1	1:T2:339:SER:O	2.33	0.62
2:T7:402:ARG:HD2	2:T7:405:VAL:HG21	1.81	0.62
1:U4:135:VAL:HG21	1:U4:152:ILE:HD11	1.80	0.62
1:U6:190:HIS:CD2	1:U6:411:ALA:HA	2.34	0.62
2:U9:90:GLU:HA	2:U9:90:GLU:OE2	2.00	0.62
1:V2:207:LEU:HB3	1:V2:225:LEU:HD22	1.82	0.62
2:Z1:83:TYR:HB3	2:Z1:86:LEU:HB3	1.80	0.62
1:0G:248:ALA:CB	1:0G:252:LYS:HD3	2.30	0.62
2:0J:100:ALA:HA	1:0K:252:LYS:HE2	1.82	0.62
1:1Q:345:ILE:O	1:1Q:348:ASN:ND2	2.32	0.62
1:3O:34:GLY:O	1:3O:58:ARG:HA	2.00	0.62
2:3T:176:GLN:NE2	2:3T:207:GLU:HG2	2.14	0.62
7:4U:179:LYS:HD3	33:7Q:121:SER:HA	1.82	0.62
14:5M:489:SER:CA	14:5M:512:PHE:HB3	2.30	0.62
14:5N:516:VAL:HG22	14:5N:527:THR:HG22	1.81	0.62
18:6B:101:LYS:O	24:6Y:178:ASN:ND2	2.25	0.62
34:7R:99:ARG:HH12	34:7R:103:LEU:HD22	1.64	0.62
36:7V:51:LYS:HB2	36:7V:54:GLU:HB3	1.81	0.62
1:7:337:ASN:ND2	3:4B:69:TYR:H	1.97	0.62
1:B3:358:PRO:O	18:5Z:22:ARG:NH2	2.31	0.62
2:F9:42:ILE:HD11	24:6U:447:ARG:HB3	1.81	0.62
2:G5:392:ASP:OD2	2:G5:422:ARG:NH1	2.32	0.62
2:H5:336:LYS:O	2:H5:339:ARG:NH2	2.32	0.62
2:H9:405:VAL:HG13	2:H9:418:PHE:HE2	1.63	0.62
2:J5:392:ASP:OD2	2:J5:422:ARG:NH1	2.33	0.62
1:L2:2:ARG:HE	1:L2:240:LEU:HD22	1.64	0.62
2:L3:84:ARG:HH22	29:7J:345:PRO:HD3	1.63	0.62
1:N2:392:LYS:HD2	1:N2:395:LEU:HD22	1.81	0.62
2:O3:98:ASP:OD1	2:O3:99:ALA:N	2.33	0.62
2:O3:313:MET:HG2	2:O3:346:TRP:CH2	2.35	0.62
1:R0:220:PRO:HD2	2:R1:326:LYS:HD3	1.82	0.62
2:R7:223:THR:HG23	2:R7:225:THR:H	1.65	0.62
1:S6:190:HIS:HD2	1:S6:414:ASN:HB2	1.64	0.62
2:T7:90:GLU:O	2:T7:90:GLU:HG2	1.97	0.62
1:U4:113:ILE:HA	1:U4:116:VAL:HG22	1.81	0.62
1:V2:49:VAL:HG11	1:V2:241:ARG:HG2	1.82	0.62
1:V2:52:ASN:OD1	1:V2:62:ARG:NH2	2.30	0.62
1:W0:52:ASN:OD1	1:W0:62:ARG:NH2	2.32	0.62
2:W7:286:LEU:O	2:W7:373:ARG:NH1	2.32	0.62
2:W9:100:ALA:O	1:X0:255:VAL:HG11	1.99	0.62
1:Y0:207:LEU:HB3	1:Y0:225:LEU:HD22	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y4:263:LEU:HG	1:Y4:422:TYR:CE1	2.34	0.62
2:Y5:88:HIS:HB3	2:0B:283:HIS:ND1	2.15	0.62
1:Z8:190:HIS:CD2	1:Z8:411:ALA:HA	2.34	0.62
1:0A:39:ASP:OD1	1:0A:40:SER:N	2.32	0.62
2:0F:56:THR:HA	2:0V:285:GLN:HB2	1.82	0.62
1:0I:113:ILE:HA	1:0I:116:VAL:HG22	1.82	0.62
1:0M:345:ILE:O	1:0M:348:ASN:ND2	2.31	0.62
1:1G:7:ILE:HD13	1:1G:151:LEU:HD21	1.81	0.62
1:1K:345:ILE:O	1:1K:348:ASN:ND2	2.30	0.62
2:1R:26:LEU:HD23	2:1R:363:VAL:HG12	1.81	0.62
2:1Z:5:ILE:HG22	2:1Z:64:ARG:HB3	1.81	0.62
2:2J:33:ASP:O	2:2J:60:LYS:NZ	2.32	0.62
1:2K:286:VAL:HG23	1:2K:287:PRO:HD3	1.82	0.62
1:2K:309:ARG:NH1	1:2K:339:SER:O	2.33	0.62
1:3C:387:ALA:HA	1:3C:390:ARG:HE	1.65	0.62
2:3H:365:GLY:HA3	14:5L:422:ASP:OD1	1.98	0.62
1:3K:391:ARG:HH22	2:3L:435:VAL:HA	1.65	0.62
14:5L:439:ARG:HH12	14:5L:453:ARG:HB2	1.63	0.62
14:5N:439:ARG:HH12	14:5N:453:ARG:HB2	1.63	0.62
14:5N:604:THR:OG1	14:5N:606:ASP:OD1	2.14	0.62
15:5O:11:SER:HB3	15:5O:75:LEU:HD23	1.82	0.62
15:5P:52:TYR:CE2	15:5P:54:GLU:CB	2.82	0.62
15:5P:233:LEU:HG	15:5P:266:THR:HG21	1.82	0.62
19:6E:205:SER:O	21:6G:38:PRO:HB3	1.99	0.62
22:6M:208:ARG:HG2	22:6M:223:LEU:HD13	1.81	0.62
1:A1:337:ASN:ND2	3:4F:69:TYR:H	1.98	0.62
2:G9:50:ASN:O	2:G9:64:ARG:NH2	2.33	0.62
2:G9:115:VAL:HG23	2:G9:153:LEU:HD12	1.79	0.62
1:H2:135:VAL:HG21	1:H2:152:ILE:HD11	1.82	0.62
1:I0:52:ASN:OD1	1:I0:62:ARG:NH2	2.33	0.62
1:I0:392:LYS:HD2	1:I0:395:LEU:HD22	1.81	0.62
2:J1:394:LYS:HB2	1:J2:346:PRO:HG3	1.82	0.62
1:L4:211:CYS:HA	1:L4:215:LEU:HB2	1.81	0.62
2:L7:384:ILE:HA	2:L7:387:ILE:HG12	1.82	0.62
1:M6:125:GLU:OE2	1:M6:159:TYR:OH	2.17	0.62
2:N1:90:GLU:CB	1:O8:281:TYR:HE2	2.12	0.62
2:N1:176:GLN:HG2	2:N1:177:VAL:HG23	1.82	0.62
2:N5:289:ALA:O	2:N5:293:ASN:ND2	2.33	0.62
1:O4:32:PRO:HB2	37:7Y:33:GLN:HE21	1.65	0.62
2:O7:88:HIS:HB3	2:O7:91:GLN:HG3	1.82	0.62
2:Q1:286:LEU:O	2:Q1:373:ARG:NH1	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R1:27:GLU:OE1	2:R1:243:ARG:NH1	2.29	0.62
2:U7:287:SER:OG	2:U7:290:GLU:OE1	2.13	0.62
2:V9:264:ARG:NH2	2:V9:431:ASP:OD2	2.33	0.62
2:W5:267:PHE:HB2	2:W5:384:ILE:HD12	1.81	0.62
1:Y6:113:ILE:HA	1:Y6:116:VAL:HG12	1.82	0.62
1:Z2:190:HIS:CD2	1:Z2:411:ALA:HA	2.35	0.62
1:Z2:380:ARG:NH1	1:Z2:383:GLU:OE2	2.28	0.62
2:Z5:67:PHE:HB2	2:Z5:92:LEU:HD22	1.82	0.62
1:0I:244:GLY:HA3	1:0I:354:CYS:HA	1.82	0.62
1:0S:97:ALA:HA	1:0S:103:LYS:HD2	1.80	0.62
1:1M:12:CYS:SG	1:1M:138:SER:HB2	2.40	0.62
2:1N:11:GLN:OE1	2:1N:15:GLN:NE2	2.33	0.62
2:1N:313:MET:SD	2:1N:346:TRP:HZ2	2.23	0.62
2:1V:318:MET:HB2	2:1V:376:CYS:HB3	1.81	0.62
2:1V:344:VAL:HG22	2:1V:346:TRP:H	1.63	0.62
2:1Z:335:ILE:HG23	2:1Z:338:LYS:HE3	1.81	0.62
1:2A:2:ARG:HE	1:2A:240:LEU:HD22	1.65	0.62
2:2L:109:THR:OG1	2:2L:411:GLU:OE2	2.16	0.62
1:2Q:45:GLU:HG3	1:2Q:46:ARG:HG2	1.80	0.62
1:3M:77:ARG:HH22	3:4D:18:LYS:HB3	1.64	0.62
7:4S:3:ARG:HG2	7:4S:3:ARG:NH1	2.13	0.62
14:5M:604:THR:OG1	14:5M:606:ASP:OD1	2.14	0.62
14:5N:166:ALA:HB2	14:5N:170:ASN:OD1	1.99	0.62
15:5P:105:ASN:HD21	15:5P:108:LYS:HD2	1.64	0.62
12:7B:44:ILE:HD11	12:7B:50:ALA:HA	1.80	0.62
26:7E:50:SER:CA	26:7E:56:LEU:CD2	2.77	0.62
38:8D:206:PRO:CG	38:8D:209:HIS:CE1	2.76	0.62
1:B8:143:THR:OG1	39:B8:501:GDP:O1B	2.18	0.62
2:G7:109:THR:OG1	2:G7:411:GLU:OE2	2.16	0.62
1:G8:2:ARG:HB3	1:G8:131:GLN:HB2	1.81	0.62
2:H1:240:ALA:O	2:H1:356:ASN:ND2	2.33	0.62
2:H1:387:ILE:HG12	2:H1:390:ARG:HH22	1.64	0.62
2:I9:405:VAL:HG13	2:I9:418:PHE:HE2	1.65	0.62
2:K1:3:GLU:HG3	2:K1:51:THR:HA	1.80	0.62
1:L0:12:CYS:SG	1:L0:13:GLY:N	2.73	0.62
2:L9:285:GLN:HG3	30:7K:333:VAL:HG21	1.81	0.62
1:M0:122:LYS:HD3	32:7O:12:SER:HB3	1.81	0.62
2:O3:90:GLU:HG3	2:O3:121:ARG:HH12	1.65	0.62
1:O4:309:ARG:H	1:O4:372:THR:HG22	1.65	0.62
2:Q5:90:GLU:HB3	2:Q5:121:ARG:HH12	1.65	0.62
1:Q8:238:CYS:SG	1:Q8:318:ARG:HD3	2.39	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S2:15:GLN:OE1	7:4R:367:ARG:NH1	2.33	0.62
2:U7:269:LEU:HD22	2:U7:303:VAL:HG11	1.82	0.62
2:U9:11:GLN:OE1	2:U9:15:GLN:NE2	2.32	0.62
1:V2:5:VAL:HG23	1:V2:62:ARG:HG2	1.81	0.62
1:V8:309:ARG:H	1:V8:372:THR:HG22	1.63	0.62
2:V9:406:HIS:HA	2:V9:409:VAL:HG22	1.81	0.62
2:W1:88:HIS:CD2	2:W1:90:GLU:CB	2.83	0.62
2:Y3:9:ILE:HG22	2:Y3:146:GLY:HA2	1.82	0.62
2:Z9:157:LEU:HD22	2:Z9:166:LYS:HD3	1.82	0.62
1:O1:135:VAL:HB	1:O1:166:THR:HG22	1.82	0.62
1:O1:113:ILE:HA	1:O1:116:VAL:HG22	1.82	0.62
1:OW:276:ARG:NH1	1:OW:279:GLN:OE1	2.33	0.62
2:1H:164:LYS:O	2:1H:166:LYS:NZ	2.33	0.62
1:1K:304:ASP:OD1	1:1K:306:ARG:NH1	2.33	0.62
2:1X:11:GLN:OE1	2:1X:15:GLN:NE2	2.33	0.62
2:1Z:85:GLN:O	2:2P:283:HIS:CE1	2.53	0.62
2:2P:358:GLN:HE21	38:8A:214:HIS:N	1.97	0.62
1:2Q:320:ARG:HH22	38:8A:198:THR:CB	2.13	0.62
1:2Y:345:ILE:O	1:2Y:348:ASN:ND2	2.33	0.62
1:3G:276:ARG:NH1	17:5S:216:GLU:HB3	2.15	0.62
5:4L:263:LEU:O	5:4L:267:ASN:ND2	2.32	0.62
9:4Y:358:THR:HA	9:4Y:361:LYS:HD2	1.82	0.62
14:5L:166:ALA:HB2	14:5L:170:ASN:OD1	1.99	0.62
14:5L:205:ASN:ND2	14:5L:207:GLU:OE1	2.33	0.62
14:5L:604:THR:OG1	14:5L:606:ASP:OD1	2.14	0.62
14:5M:205:ASN:ND2	14:5M:207:GLU:OE1	2.33	0.62
14:5M:439:ARG:HH12	14:5M:453:ARG:HB2	1.63	0.62
14:5N:205:ASN:ND2	14:5N:207:GLU:OE1	2.33	0.62
15:5O:102:ALA:CB	15:5O:204:ALA:HB1	2.30	0.62
22:6I:200:GLY:O	22:6I:239:GLU:HA	2.00	0.62
22:6P:170:ARG:NH2	22:6P:246:GLN:O	2.33	0.62
24:6U:97:ARG:H	24:6U:188:THR:HG21	1.65	0.62
24:6X:95:VAL:HG11	24:6X:124:TYR:CE2	2.35	0.62
24:6X:253:PRO:HB3	24:6X:255:HIS:CE1	2.35	0.62
38:8A:196:MET:HE2	38:8A:201:LEU:HD21	1.80	0.62
2:B7:367:ASP:OD1	18:6B:47:SER:OG	1.91	0.61
2:G3:91:GLN:HG3	2:G3:121:ARG:NH2	2.15	0.61
1:G8:178:THR:OG1	2:G9:258:ASN:ND2	2.33	0.61
2:H1:195:LEU:HD21	2:H1:264:ARG:HD2	1.81	0.61
1:I0:309:ARG:H	1:I0:372:THR:HG22	1.63	0.61
1:I4:345:ILE:O	1:I4:348:ASN:ND2	2.26	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I7:55:GLU:O	2:K3:285:GLN:NE2	2.33	0.61
2:J7:223:THR:OG1	1:J8:245:GLN:NE2	2.33	0.61
2:L1:90:GLU:HB3	2:L1:121:ARG:NH1	2.13	0.61
1:M2:334:GLN:HE22	1:M2:348:ASN:H	1.47	0.61
2:M9:364:PRO:HB2	29:7J:291:ARG:HG3	1.82	0.61
2:N1:365:GLY:HA3	29:7J:118:ALA:HB1	1.81	0.61
2:O3:286:LEU:O	2:O3:373:ARG:NH1	2.33	0.61
1:O8:2:ARG:HE	1:O8:240:LEU:HD22	1.65	0.61
1:Q4:301:CYS:HB2	1:Q4:377:MET:HE1	1.82	0.61
1:Q8:200:MET:HE3	1:Q8:268:VAL:HG21	1.81	0.61
1:R2:11:GLN:HE22	2:R3:249:ASN:H	1.47	0.61
1:S8:227:HIS:NE2	24:6W:10:LYS:O	2.32	0.61
2:T3:398:MET:HG2	1:T4:345:ILE:HD13	1.82	0.61
2:U1:286:LEU:HD11	2:U1:291:ILE:HG23	1.82	0.61
1:V6:309:ARG:H	1:V6:372:THR:HG22	1.65	0.61
2:Z7:298:PRO:HA	2:Z7:301:MET:HG3	1.81	0.61
2:0N:195:LEU:HD23	2:0N:196:GLU:HG2	1.80	0.61
1:0Y:272:PRO:HB3	1:0Y:282:ARG:HH22	1.65	0.61
2:1R:223:THR:HG23	2:1R:225:THR:H	1.66	0.61
1:1U:334:GLN:HE22	1:1U:348:ASN:H	1.45	0.61
2:2B:123:ARG:NH1	38:8A:78:ASP:O	2.31	0.61
2:2N:164:LYS:O	2:2N:166:LYS:NZ	2.33	0.61
2:2P:296:PHE:HE2	2:2P:335:ILE:HD13	1.65	0.61
2:2V:155:GLU:HG2	2:2V:197:HIS:CE1	2.35	0.61
1:2W:290:THR:HG21	1:2W:329:GLN:HE21	1.65	0.61
3:4J:117:PRO:HB2	3:4J:122:ARG:HH12	1.65	0.61
14:5M:166:ALA:HB2	14:5M:170:ASN:OD1	1.99	0.61
14:5N:11:ILE:HD12	14:5N:619:ILE:HD13	1.81	0.61
14:5N:112:SER:OG	14:5N:114:ASP:OD1	2.17	0.61
17:5T:113:ILE:HG22	17:5T:114:LEU:HD22	1.82	0.61
24:6W:37:ASN:H	24:6W:37:ASN:HD22	1.47	0.61
24:6Z:97:ARG:H	24:6Z:188:THR:HG21	1.65	0.61
2:4:15:GLN:HE21	26:7D:113:ARG:NH2	1.96	0.61
2:8:76:ASP:OD2	18:6A:35:LEU:HD11	2.01	0.61
1:A9:79:GLY:HA3	24:6U:221:ARG:HH22	1.63	0.61
2:E7:85:GLN:O	2:G3:283:HIS:NE2	2.11	0.61
2:G9:301:MET:HG2	2:G9:303:VAL:H	1.65	0.61
2:I7:174:SER:OG	2:I7:177:VAL:O	2.18	0.61
2:K9:287:SER:N	2:K9:290:GLU:OE2	2.33	0.61
1:L2:139:LEU:HD12	1:L2:170:VAL:HG12	1.82	0.61
1:L4:56:GLY:CA	29:7J:331:TYR:HB2	2.25	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L9:154:LEU:HD21	2:L9:198:THR:HG23	1.82	0.61
2:N3:209:ILE:HG21	2:N3:227:LEU:HD13	1.81	0.61
2:N3:287:SER:N	2:N3:290:GLU:OE2	2.32	0.61
2:S9:176:GLN:NE2	2:S9:207:GLU:OE2	2.34	0.61
1:T8:3:GLU:HG3	1:T8:127:CYS:HB2	1.82	0.61
1:T8:67:ASP:OD2	1:T8:72:THR:OG1	2.16	0.61
2:U3:172:TYR:N	2:U3:204:LEU:O	2.33	0.61
1:V2:107:THR:OG1	1:V2:401:GLU:OE2	2.14	0.61
1:W4:207:LEU:HB3	1:W4:225:LEU:HD22	1.82	0.61
1:X8:309:ARG:O	1:X8:371:SER:OG	2.16	0.61
2:Y1:236:SER:OG	2:Y1:243:ARG:NH2	2.33	0.61
2:Z1:399:TYR:O	2:Z1:402:ARG:NH1	2.33	0.61
1:0E:391:ARG:HG3	2:0F:346:TRP:HB3	1.80	0.61
1:0G:202:LEU:HD22	1:0G:300:MET:HB3	1.82	0.61
1:0G:252:LYS:HE2	1:0G:350:LYS:HE2	1.82	0.61
2:0L:336:LYS:O	2:0L:339:ARG:NH2	2.29	0.61
1:0M:272:PRO:HB2	1:0M:282:ARG:HH12	1.64	0.61
2:0N:316:CYS:HB3	2:0N:378:ILE:HG23	1.81	0.61
1:0U:244:GLY:H	1:0U:247:ASN:HD21	1.47	0.61
1:2Q:306:ARG:NH2	38:8A:96:GLY:C	2.48	0.61
2:2X:22:GLU:OE1	38:8C:203:PHE:CE1	2.53	0.61
2:3J:339:ARG:HH22	2:3J:342:GLN:HB3	1.65	0.61
1:3K:345:ILE:O	1:3K:348:ASN:ND2	2.32	0.61
2:3P:195:LEU:HD21	2:3P:264:ARG:HH11	1.66	0.61
1:3Q:309:ARG:NH1	1:3Q:339:SER:O	2.32	0.61
24:6U:525:VAL:HB	24:6U:530:PHE:HE2	1.65	0.61
2:8:29:GLY:HA2	26:7E:45:MET:CE	2.28	0.61
1:A3:383:GLU:OE2	3:4H:50:LYS:HE2	2.00	0.61
2:F7:60:LYS:NZ	2:H3:283:HIS:NE2	2.44	0.61
1:G4:173:PRO:HD2	1:G4:380:ARG:HE	1.65	0.61
2:G5:72:PRO:HD2	1:G6:2:ARG:HH12	1.65	0.61
1:J0:320:ARG:NH2	28:7H:419:ILE:HD11	2.16	0.61
2:J3:48:ALA:HB2	16:5Q:174:THR:HG1	1.65	0.61
2:J5:76:ASP:OD2	1:J6:46:ARG:NH2	2.34	0.61
2:J9:42:ILE:HG22	2:J9:43:GLY:H	1.65	0.61
2:L1:51:THR:HG21	2:L1:243:ARG:HG2	1.82	0.61
2:M9:287:SER:N	2:M9:290:GLU:OE2	2.33	0.61
1:N0:156:ARG:NH1	1:N0:197:ASP:OD1	2.34	0.61
2:N3:50:ASN:O	2:N3:64:ARG:NH2	2.33	0.61
2:Q9:183:GLU:HG3	2:Q9:184:PRO:HD3	1.80	0.61
1:S4:172:SER:HB3	1:S4:175:VAL:HG12	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S4:301:CYS:SG	1:S4:302:ALA:N	2.74	0.61
2:S7:66:ILE:HD12	2:S7:68:LEU:HD23	1.82	0.61
1:S8:177:ASP:O	2:S9:352:LYS:HA	2.00	0.61
1:T4:207:LEU:HB3	1:T4:225:LEU:HD22	1.82	0.61
1:T6:150:LEU:HD11	3:4H:76:PRO:HG3	1.80	0.61
1:T8:336:LYS:HD3	13:5K:101:LYS:HD3	1.80	0.61
1:U2:309:ARG:H	1:U2:372:THR:HG22	1.64	0.61
2:U9:109:THR:OG1	2:U9:411:GLU:OE2	2.13	0.61
2:V7:213:CYS:HA	2:V7:217:LEU:HB2	1.81	0.61
1:W2:207:LEU:HD11	1:W2:229:ILE:HD11	1.81	0.61
2:W7:225:THR:O	2:W7:229:ARG:HG3	2.01	0.61
1:X0:237:THR:HG23	1:X0:241:ARG:HE	1.65	0.61
2:X9:9:ILE:HG22	2:X9:146:GLY:HA2	1.82	0.61
1:0G:309:ARG:NH1	1:0G:339:SER:O	2.33	0.61
2:0R:392:ASP:OD2	2:0R:422:ARG:NH1	2.33	0.61
1:1C:358:PRO:HG2	1:1C:361:LEU:HD23	1.81	0.61
1:1W:207:LEU:HD11	1:1W:229:ILE:HD11	1.82	0.61
1:2C:134:GLN:HE21	1:2C:167:PHE:HE2	1.47	0.61
1:2G:259:PRO:HG3	1:2G:311:LEU:HD21	1.83	0.61
2:2P:50:ASN:O	2:2P:64:ARG:NH2	2.33	0.61
1:3A:193:VAL:HG22	1:3A:265:PHE:HZ	1.64	0.61
2:3R:163:LYS:HE3	3:4H:137:ARG:HG2	1.81	0.61
14:5L:11:ILE:HD12	14:5L:619:ILE:HD13	1.82	0.61
14:5M:11:ILE:HD12	14:5M:619:ILE:HD13	1.82	0.61
14:5M:112:SER:OG	14:5M:114:ASP:OD1	2.17	0.61
24:6W:482:ILE:HD12	24:6W:482:ILE:N	2.15	0.61
24:6W:488:ARG:HB3	24:6W:488:ARG:HH11	1.66	0.61
2:G5:279:GLU:OE1	2:G5:279:GLU:N	2.25	0.61
2:H1:56:THR:HA	2:I7:285:GLN:HB2	1.81	0.61
2:H5:406:HIS:HA	2:H5:409:VAL:HG22	1.82	0.61
1:H6:113:ILE:HA	1:H6:116:VAL:HG22	1.82	0.61
2:K5:167:LEU:HA	2:K5:200:VAL:HG13	1.82	0.61
1:Q0:135:VAL:HG21	1:Q0:152:ILE:HD11	1.82	0.61
1:Q4:391:ARG:NH1	2:Q5:346:TRP:HE1	1.99	0.61
1:T6:226:ASN:O	1:T6:230:SER:N	2.31	0.61
1:U6:128:ASP:OD1	1:U6:129:CYS:N	2.33	0.61
1:V8:52:ASN:OD1	1:V8:62:ARG:NH2	2.34	0.61
1:W4:350:LYS:NZ	1:W4:352:SER:OG	2.32	0.61
1:W6:139:LEU:HD12	1:W6:170:VAL:HG12	1.82	0.61
1:0E:382:SER:HB3	1:0E:415:MET:HG2	1.83	0.61
1:0I:135:VAL:HG21	1:0I:152:ILE:HD11	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0Q:309:ARG:H	1:0Q:372:THR:HG22	1.64	0.61
2:0R:90:GLU:O	2:0R:121:ARG:NH1	2.33	0.61
2:0Z:290:GLU:HA	2:0Z:293:ASN:HD22	1.63	0.61
2:0Z:392:ASP:OD2	2:0Z:422:ARG:NH1	2.33	0.61
1:1A:379:LYS:HG3	1:1A:419:VAL:HG11	1.82	0.61
2:1R:176:GLN:HE22	2:1R:304:LYS:HE2	1.65	0.61
2:1V:392:ASP:OD2	2:1V:422:ARG:NH1	2.32	0.61
2:1Z:340:THR:HG23	2:1Z:341:ILE:HG12	1.81	0.61
1:2Q:272:PRO:HB2	1:2Q:282:ARG:HH12	1.63	0.61
7:4R:321:LYS:HD2	24:6Z:19:PRO:HG2	1.83	0.61
9:4Y:329:GLN:NE2	9:4Y:332:GLN:OE1	2.33	0.61
9:4Z:284:GLU:OE1	9:4Z:288:MET:HE3	1.99	0.61
14:5L:405:LYS:HE2	14:5L:421:ASN:HA	1.80	0.61
14:5M:405:LYS:HE2	14:5M:421:ASN:HA	1.80	0.61
14:5N:405:LYS:HE2	14:5N:421:ASN:HA	1.80	0.61
15:5O:59:LEU:HD12	15:5O:59:LEU:C	2.19	0.61
22:6K:53:THR:O	22:6K:57:THR:OG1	2.18	0.61
29:7I:165:ARG:NH1	29:7I:232:ASP:HA	2.14	0.61
36:7W:98:VAL:HA	36:7W:101:VAL:CG1	2.30	0.61
37:7Y:173:GLU:HA	37:7Y:173:GLU:OE1	2.00	0.61
1:B1:358:PRO:O	18:5Y:22:ARG:NH2	2.33	0.61
1:G8:45:GLU:HG3	1:G8:46:ARG:HG2	1.82	0.61
2:I5:326:LYS:HG3	2:I5:327:ASP:N	2.15	0.61
1:I8:107:THR:OG1	1:I8:401:GLU:OE2	2.14	0.61
1:J2:74:ASP:OD2	16:5Q:181:THR:HG21	2.00	0.61
2:J7:370:LYS:HD2	5:4M:205:VAL:HG23	1.83	0.61
2:K5:189:LEU:HD11	2:K5:418:PHE:HE1	1.65	0.61
1:K6:282:ARG:NH2	1:K6:288:GLU:OE2	2.30	0.61
2:K7:98:ASP:OD1	2:K7:99:ALA:N	2.33	0.61
2:L9:222:PRO:HD2	1:M0:324:LYS:HE3	1.82	0.61
1:M4:12:CYS:SG	1:M4:13:GLY:N	2.74	0.61
2:M7:69:ASP:OD1	2:M7:70:LEU:N	2.33	0.61
2:M7:90:GLU:HG3	2:M7:121:ARG:NH1	2.15	0.61
2:N1:265:ILE:CD1	2:N1:435:VAL:HG21	2.30	0.61
2:N7:98:ASP:OD1	2:N7:99:ALA:N	2.33	0.61
2:N7:387:ILE:HG12	2:N7:390:ARG:HH22	1.66	0.61
1:O0:19:LYS:HZ3	27:7G:48:THR:HG1	1.48	0.61
1:O2:320:ARG:NH1	37:7Y:235:ASP:O	2.33	0.61
2:O3:88:HIS:ND1	2:O3:89:PRO:HD2	2.16	0.61
1:P4:207:LEU:HB3	1:P4:225:LEU:HD22	1.82	0.61
1:P6:128:ASP:OD1	1:P6:129:CYS:N	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q4:178:THR:HG22	2:Q5:352:LYS:HZ3	1.65	0.61
1:Q6:33:THR:O	1:Q6:58:ARG:NH2	2.33	0.61
1:S0:139:LEU:HD12	1:S0:170:VAL:HG22	1.82	0.61
1:S6:213:ARG:HH22	13:5H:117:ASN:HD21	1.47	0.61
1:S6:397:TRP:NE1	2:S7:256:GLN:O	2.33	0.61
1:T2:2:ARG:HB3	1:T2:131:GLN:HB2	1.83	0.61
2:U9:98:ASP:OD1	2:U9:99:ALA:N	2.33	0.61
1:V8:272:PRO:HB2	1:V8:282:ARG:HH12	1.65	0.61
1:W2:207:LEU:HB3	1:W2:225:LEU:HD22	1.81	0.61
1:X0:359:LYS:HG3	8:4X:96:VAL:HG22	1.81	0.61
2:X3:100:ALA:HA	1:X4:252:LYS:HE2	1.82	0.61
2:X7:319:TYR:HB3	2:X7:323:VAL:HG21	1.80	0.61
1:X8:33:THR:O	1:X8:58:ARG:NH2	2.34	0.61
2:X9:223:THR:HG22	2:X9:224:TYR:H	1.65	0.61
1:Y8:8:GLN:NE2	1:Y8:63:ALA:HB1	2.12	0.61
1:Z0:68:LEU:HB3	1:Z0:96:GLY:HA2	1.82	0.61
1:0E:374:ILE:HD12	1:0E:378:PHE:HE2	1.65	0.61
1:0W:53:GLU:OE1	1:0W:53:GLU:HA	1.99	0.61
2:1B:271:SER:HA	2:1B:302:MET:HG2	1.81	0.61
1:1E:270:PHE:CD2	1:1E:273:LEU:HD21	2.36	0.61
2:1L:320:ARG:NH2	2:1L:359:PRO:O	2.34	0.61
1:1Q:5:VAL:HG22	1:1Q:133:PHE:HD1	1.65	0.61
1:2M:309:ARG:NH1	1:2M:339:SER:O	2.33	0.61
2:2P:35:GLN:HB3	2:2P:59:GLY:O	2.00	0.61
2:2T:358:GLN:HE21	38:8B:214:HIS:N	1.98	0.61
1:2Y:320:ARG:HH22	38:8C:198:THR:HA	1.64	0.61
2:3B:413:MET:HB3	2:3B:417:GLU:OE2	2.01	0.61
2:3N:339:ARG:HH22	2:3N:342:GLN:HB3	1.66	0.61
3:4J:119:THR:HG22	3:4J:121:PHE:H	1.63	0.61
18:6B:43:ASN:OD1	18:6B:44:HIS:N	2.32	0.61
22:6M:137:GLU:HB3	22:6M:141:LYS:HE2	1.81	0.61
24:6X:277:CYS:HA	24:6X:368:LEU:HA	1.82	0.61
24:6Y:431:PRO:HB2	24:6Y:433:ARG:HH22	1.64	0.61
26:7E:50:SER:C	26:7E:56:LEU:HD23	2.21	0.61
2:4:264:ARG:HD3	4:3Y:115:LYS:HD3	1.82	0.61
2:F3:56:THR:HG23	2:G9:285:GLN:HA	1.80	0.61
1:G0:276:ARG:HD3	24:6V:419:SER:HB2	1.81	0.61
2:G3:287:SER:N	2:G3:290:GLU:OE2	2.32	0.61
1:H2:272:PRO:HB2	1:H2:282:ARG:HH12	1.64	0.61
2:H5:392:ASP:OD2	2:H5:422:ARG:NH1	2.33	0.61
1:J0:40:SER:HB2	28:7H:413:TYR:HD1	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J4:309:ARG:H	1:J4:372:THR:HG22	1.66	0.61
1:J6:128:ASP:OD1	1:J6:129:CYS:N	2.33	0.61
2:J7:76:ASP:HA	2:J7:79:ARG:HB2	1.82	0.61
2:J7:405:VAL:HG13	2:J7:418:PHE:HE2	1.64	0.61
2:J9:399:TYR:O	2:J9:402:ARG:NH1	2.34	0.61
1:K4:2:ARG:HE	1:K4:240:LEU:HD22	1.66	0.61
1:L2:57:GLY:H	30:7K:56:ARG:HH12	1.46	0.61
2:M7:195:LEU:HD11	2:M7:428:LEU:HD12	1.83	0.61
2:P5:206:ASN:OD1	41:P6:501:GTP:N2	2.33	0.61
1:R4:334:GLN:HE22	1:R4:347:ASN:HA	1.66	0.61
1:S4:26:ASP:OD1	24:6U:10:LYS:HE3	1.99	0.61
1:S4:273:LEU:O	1:S4:292:GLN:NE2	2.34	0.61
1:S6:52:ASN:OD1	1:S6:62:ARG:NH2	2.34	0.61
1:S8:213:ARG:HD3	1:S8:297:LYS:HD2	1.83	0.61
2:S9:298:PRO:HA	2:S9:301:MET:HG3	1.81	0.61
2:T7:9:ILE:HG22	2:T7:68:LEU:HD11	1.83	0.61
1:U6:137:HIS:NE2	1:U6:168:SER:OG	2.31	0.61
2:U9:384:ILE:HA	2:U9:387:ILE:HD12	1.82	0.61
1:W0:49:VAL:HG11	1:W0:241:ARG:HG2	1.81	0.61
2:W1:109:THR:OG1	2:W1:411:GLU:OE2	2.15	0.61
2:Y3:223:THR:HG23	2:Y3:225:THR:H	1.64	0.61
2:Y9:399:TYR:O	2:Y9:402:ARG:NH1	2.33	0.61
1:Z2:16:ILE:HD11	1:Z2:136:CYS:HB2	1.82	0.61
2:0J:33:ASP:O	2:0J:60:LYS:NZ	2.34	0.61
2:0P:286:LEU:HD11	2:0P:372:GLN:HB2	1.83	0.61
1:0S:86:ARG:HG2	1:0S:88:ASP:H	1.65	0.61
2:0X:83:TYR:HB3	2:0X:86:LEU:HB3	1.82	0.61
1:0Y:206:ALA:O	1:0Y:210:ILE:HG12	2.01	0.61
2:1D:176:GLN:HE22	2:1D:304:LYS:HE2	1.65	0.61
2:1D:387:ILE:HG12	2:1D:390:ARG:HH22	1.64	0.61
2:1F:381:SER:OG	2:1F:382:THR:N	2.34	0.61
1:1K:113:ILE:HA	1:1K:116:VAL:HG22	1.81	0.61
1:1M:107:THR:OG1	1:1M:401:GLU:OE2	2.17	0.61
2:1V:222:PRO:HD2	1:1W:324:LYS:HE3	1.83	0.61
2:2F:33:ASP:O	2:2F:60:LYS:NZ	2.33	0.61
1:2Y:135:VAL:HG21	1:2Y:152:ILE:HD11	1.83	0.61
1:3C:316:LEU:HD13	1:3C:352:SER:HB2	1.83	0.61
2:3H:399:TYR:O	2:3H:402:ARG:NH1	2.34	0.61
1:3O:257:LEU:HD21	1:3O:314:SER:HB3	1.82	0.61
1:3O:362:LYS:NZ	38:8C:164:GLU:OE1	2.32	0.61
2:3P:286:LEU:O	2:3P:373:ARG:NH1	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:4W:468:MET:CE	8:4W:470:TYR:CZ	2.84	0.61
15:5O:99:LYS:N	15:5O:204:ALA:O	2.31	0.61
18:5X:43:ASN:OD1	18:5X:44:HIS:N	2.32	0.61
18:5Z:43:ASN:OD1	18:5Z:44:HIS:N	2.32	0.61
18:6A:43:ASN:OD1	18:6A:44:HIS:N	2.32	0.61
18:6C:43:ASN:OD1	18:6C:44:HIS:N	2.32	0.61
18:6D:43:ASN:OD1	18:6D:44:HIS:N	2.32	0.61
19:6E:75:GLN:O	37:7Y:60:LYS:NZ	2.34	0.61
22:6P:219:ASP:OD1	22:6P:222:SER:OG	2.10	0.61
24:6Y:91:ASN:HB3	24:6Y:94:LYS:HG3	1.81	0.61
24:6Y:525:VAL:HB	24:6Y:530:PHE:HE2	1.65	0.61
26:7F:31:VAL:HG22	26:7F:107:MET:HB2	1.83	0.61
2:4:221:ARG:O	26:7D:77:ILE:O	2.18	0.61
1:G2:33:THR:O	1:G2:58:ARG:NH2	2.34	0.61
2:G5:210:TYR:HB3	1:G6:324:LYS:HE2	1.81	0.61
2:G7:129:CYS:SG	2:G7:130:THR:N	2.73	0.61
1:G8:31:ASP:OD1	1:G8:35:THR:N	2.27	0.61
1:J0:139:LEU:HD12	1:J0:170:VAL:HG12	1.83	0.61
1:J0:350:LYS:NZ	1:J0:351:SER:O	2.32	0.61
1:J2:309:ARG:H	1:J2:372:THR:HG22	1.66	0.61
1:K4:362:LYS:HA	6:4O:169:PHE:CZ	2.35	0.61
1:L6:41:ASP:CG	29:7J:167:ILE:HD13	2.21	0.61
1:L6:135:VAL:HG21	1:L6:152:ILE:HD11	1.80	0.61
2:L9:79:ARG:NH1	2:L9:92:LEU:O	2.34	0.61
1:N6:2:ARG:HE	1:N6:240:LEU:HD22	1.66	0.61
1:P6:177:ASP:O	2:P7:352:LYS:HA	2.01	0.61
2:Q5:98:ASP:OD1	2:Q5:99:ALA:N	2.34	0.61
1:Q8:212:PHE:HE1	2:Q9:326:LYS:HE3	1.65	0.61
2:R9:364:PRO:HD2	12:5F:113:LYS:HD3	1.81	0.61
2:S5:14:ILE:HD11	2:S5:74:VAL:HG13	1.83	0.61
2:S7:419:SER:O	2:S7:423:GLU:HG2	2.01	0.61
39:T0:501:GDP:O3B	7:4U:3:ARG:NH1	2.34	0.61
2:T1:79:ARG:NH1	2:T1:92:LEU:O	2.34	0.61
2:W5:31:GLN:HE21	2:W5:37:PRO:HG3	1.66	0.61
1:X0:64:ILE:HD11	1:X0:123:GLU:HG3	1.83	0.61
2:Z9:83:TYR:HB3	2:Z9:86:LEU:HB3	1.82	0.61
2:0F:318:MET:HB2	2:0F:376:CYS:HB3	1.81	0.61
1:0I:309:ARG:NH1	1:0I:339:SER:O	2.34	0.61
1:0O:68:LEU:HB3	1:0O:96:GLY:HA2	1.83	0.61
2:0X:222:PRO:HD2	1:0Y:324:LYS:HE3	1.81	0.61
2:0Z:85:GLN:O	2:1P:283:HIS:NE2	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1C:361:LEU:HD12	1:1C:362:LYS:H	1.65	0.61
2:1X:287:SER:N	2:1X:290:GLU:OE2	2.30	0.61
1:2E:248:ALA:HA	1:2E:252:LYS:HD2	1.83	0.61
1:2E:396:HIS:HA	1:2E:399:THR:HG22	1.83	0.61
2:2N:176:GLN:HE22	2:2N:304:LYS:HE2	1.65	0.61
2:2R:214:ARG:NH2	38:8A:60:GLY:O	2.33	0.61
2:2T:267:PHE:HB2	2:2T:384:ILE:HD12	1.83	0.61
1:3C:55:THR:CG2	38:8D:164:GLU:HB2	2.31	0.61
2:3F:5:ILE:HG22	2:3F:64:ARG:HB3	1.81	0.61
5:4L:466:LEU:HD21	5:4M:139:LEU:HD23	1.82	0.61
10:5C:172:GLN:NE2	10:5C:176:GLU:HG3	2.15	0.61
14:5L:489:SER:HB3	14:5L:512:PHE:CD1	2.36	0.61
14:5L:548:ILE:HG22	14:5L:550:GLY:H	1.65	0.61
14:5N:548:ILE:HG22	14:5N:550:GLY:H	1.65	0.61
15:5O:203:ASN:HD22	15:5O:203:ASN:N	1.93	0.61
15:5P:343:LEU:H	15:5P:343:LEU:HD23	1.65	0.61
17:5S:181:LEU:HD23	17:5S:181:LEU:O	2.00	0.61
18:5X:47:SER:O	18:5X:51:MET:HG2	2.01	0.61
22:6N:114:THR:HG23	22:6N:117:GLY:H	1.64	0.61
12:7B:49:ALA:O	12:7B:52:GLU:HG3	2.00	0.61
37:7Y:113:GLU:HA	37:7Y:113:GLU:OE2	2.01	0.61
2:F1:33:ASP:OD2	22:6O:131:ARG:NH1	2.33	0.61
1:H2:418:LEU:HG	1:H2:422:TYR:HE2	1.65	0.61
2:H9:250:VAL:HB	2:H9:254:GLU:HG3	1.83	0.61
2:H9:399:TYR:O	2:H9:402:ARG:NH1	2.34	0.61
2:I3:57:GLY:O	2:J9:285:GLN:NE2	2.20	0.61
2:K3:217:LEU:HD13	2:K3:275:ILE:HG22	1.82	0.61
1:K4:39:ASP:O	29:7I:172:VAL:HG22	2.01	0.61
1:L6:248:ALA:HA	1:L6:252:LYS:HD2	1.83	0.61
2:L7:90:GLU:H	2:N3:283:HIS:CE1	2.18	0.61
1:N2:252:LYS:CA	1:N2:255:VAL:HG12	2.25	0.61
1:N8:272:PRO:HB2	1:N8:282:ARG:NH1	2.15	0.61
2:P9:2:ARG:HH12	19:6E:166:LYS:HE3	1.64	0.61
1:Q2:166:THR:OG1	1:Q2:199:CYS:SG	2.56	0.61
1:S4:26:ASP:O	1:S4:359:LYS:NZ	2.29	0.61
2:U3:413:MET:HB3	2:U3:417:GLU:OE2	2.01	0.61
2:V1:109:THR:OG1	2:V1:411:GLU:OE2	2.17	0.61
1:V6:343:GLU:HG2	1:V6:344:TRP:HD1	1.65	0.61
2:V9:189:LEU:HD11	2:V9:418:PHE:HE1	1.66	0.61
2:W1:406:HIS:HA	2:W1:409:VAL:HG22	1.82	0.61
2:W3:337:THR:O	2:W3:339:ARG:NH1	2.28	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W4:68:LEU:HD12	1:W4:143:THR:HG22	1.82	0.61
1:W8:138:SER:OG	1:W8:139:LEU:N	2.33	0.61
1:X6:177:ASP:O	2:X7:352:LYS:HA	2.01	0.61
1:X8:237:THR:O	1:X8:241:ARG:NE	2.33	0.61
1:Y0:263:LEU:HD22	1:Y0:422:TYR:HE1	1.66	0.61
2:Z3:12:ALA:HB2	41:Z3:501:GTP:C8	2.36	0.61
2:Z9:9:ILE:HG22	2:Z9:68:LEU:HD11	1.83	0.61
2:0F:2:ARG:HA	2:0F:133:GLN:HE21	1.66	0.61
2:0H:167:LEU:HG	2:0H:252:ILE:HD11	1.83	0.61
2:0H:206:ASN:OD1	41:0I:501:GTP:N2	2.31	0.61
1:0S:3:GLU:HB2	1:0S:130:LEU:HA	1.81	0.61
2:0V:346:TRP:HD1	2:0V:346:TRP:H	1.47	0.61
2:0X:289:ALA:O	2:0X:293:ASN:ND2	2.34	0.61
2:1D:381:SER:OG	2:1D:382:THR:N	2.34	0.61
2:1F:85:GLN:O	2:1V:283:HIS:NE2	2.34	0.61
1:1K:235:GLY:HA3	1:1K:366:THR:HG21	1.83	0.61
1:1O:52:ASN:OD1	1:1O:62:ARG:NH2	2.34	0.61
2:1Z:121:ARG:HD3	2:1Z:121:ARG:C	2.20	0.61
2:2X:98:ASP:OD1	2:2X:99:ALA:N	2.34	0.61
2:3N:221:ARG:NE	38:8C:174:SER:OG	2.34	0.61
1:3S:280:GLN:HG2	38:8D:162:VAL:HG13	1.81	0.61
8:4W:440:THR:HA	8:4W:443:ILE:HD13	1.82	0.61
15:5P:157:ARG:NE	15:5P:231:CYS:SG	2.67	0.61
18:5Y:43:ASN:OD1	18:5Y:44:HIS:N	2.32	0.61
18:6A:47:SER:O	18:6A:51:MET:HG2	2.01	0.61
19:6E:82:ASP:O	37:7Y:64:TRP:NE1	2.32	0.61
20:6F:122:VAL:HG13	20:6F:377:GLY:HA2	1.82	0.61
22:6N:136:ASN:OD1	24:6X:440:ASN:ND2	2.33	0.61
24:6W:484:GLU:HG2	24:6W:495:GLY:O	2.00	0.61
37:7Y:72:ARG:HG2	37:7Y:72:ARG:NH2	2.16	0.61
38:8A:10:ALA:HA	38:8A:17:GLY:HA2	1.82	0.61
1:9:245:GLN:HG2	26:7E:113:ARG:NH1	2.15	0.61
1:E8:58:ARG:HD3	1:G4:280:GLN:HE22	1.64	0.61
2:F3:206:ASN:OD1	41:F3:501:GTP:N2	2.26	0.61
1:G2:391:ARG:HH22	2:G3:435:VAL:HA	1.65	0.61
2:G3:227:LEU:O	2:G3:231:ILE:HG12	2.01	0.61
2:G3:282:TYR:CD1	22:6M:133:PRO:CG	2.84	0.61
1:H2:156:ARG:NH1	1:H2:197:ASP:OD1	2.34	0.61
1:J2:211:CYS:HA	1:J2:215:LEU:HB2	1.83	0.61
1:J2:274:THR:HG21	1:J2:282:ARG:HD2	1.83	0.61
2:K7:274:PRO:HG3	2:K7:286:LEU:HD11	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L0:139:LEU:HD12	1:L0:170:VAL:HG12	1.83	0.61
1:M0:52:ASN:OD1	1:M0:62:ARG:NH2	2.34	0.61
2:O3:191:THR:HA	2:O3:194:LEU:HB3	1.83	0.61
1:O4:83:GLN:HE21	37:7Y:26:ARG:HG2	1.65	0.61
2:O5:125:LEU:O	2:O5:125:LEU:HD12	2.00	0.61
1:P6:156:ARG:NH1	1:P6:197:ASP:OD1	2.33	0.61
1:Q4:166:THR:OG1	1:Q4:199:CYS:SG	2.59	0.61
2:Q9:98:ASP:OD1	2:Q9:99:ALA:N	2.34	0.61
1:S4:286:VAL:HG12	1:S4:329:GLN:HE21	1.66	0.61
2:S5:417:GLU:HA	2:S5:420:GLU:HG2	1.83	0.61
2:U1:88:HIS:CG	2:V7:283:HIS:HA	2.35	0.61
2:U1:277:SER:OG	2:U1:278:ALA:N	2.28	0.61
1:V2:67:ASP:N	1:V2:67:ASP:OD1	2.34	0.61
1:V6:256:ASN:HB2	1:V6:350:LYS:NZ	2.15	0.61
2:W1:11:GLN:OE1	2:W1:15:GLN:NE2	2.34	0.61
1:X4:248:ALA:HA	1:X4:252:LYS:HD2	1.83	0.61
1:Y4:279:GLN:HG2	1:Y4:282:ARG:HH21	1.66	0.61
2:Y9:12:ALA:HB2	41:Z0:501:GTP:C8	2.36	0.61
1:Z0:45:GLU:HG2	1:Z0:46:ARG:HG2	1.82	0.61
1:Z6:139:LEU:HD21	1:Z6:168:SER:HB2	1.83	0.61
2:0F:47:ASP:OD1	2:0F:48:ALA:N	2.34	0.61
2:0R:50:ASN:O	2:0R:64:ARG:NH2	2.34	0.61
1:1G:259:PRO:HG3	1:1G:311:LEU:HD21	1.83	0.61
1:1K:3:GLU:HB2	1:1K:130:LEU:HA	1.83	0.61
2:1X:394:LYS:HA	2:1X:397:LEU:HG	1.83	0.61
1:2A:286:VAL:HG23	1:2A:287:PRO:HD3	1.83	0.61
1:2E:67:ASP:OD1	1:2E:72:THR:OG1	2.18	0.61
1:2K:248:ALA:HA	1:2K:252:LYS:HD2	1.82	0.61
1:2Q:130:LEU:HB2	1:2Q:162:ARG:HE	1.65	0.61
2:3F:56:THR:OG1	3:3V:34:SER:HA	2.01	0.61
2:3F:317:LEU:HB3	2:3F:319:TYR:HE1	1.65	0.61
2:3H:320:ARG:NH2	2:3H:358:GLN:OE1	2.33	0.61
1:3K:280:GLN:HG2	38:8B:162:VAL:CG2	2.29	0.61
10:5C:137:THR:O	10:5C:141:LEU:HG	2.01	0.61
11:5E:47:THR:HG22	11:5E:49:ASP:H	1.65	0.61
14:5M:548:ILE:HG22	14:5M:550:GLY:H	1.65	0.61
15:5O:366:VAL:O	15:5O:370:ASN:ND2	2.34	0.61
17:5T:185:LEU:HD12	17:5T:226:ILE:HG13	1.81	0.61
18:5Y:47:SER:O	18:5Y:51:MET:HG2	2.01	0.61
18:5Z:47:SER:O	18:5Z:51:MET:HG2	2.01	0.61
18:6B:47:SER:O	18:6B:51:MET:HG2	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:6C:5:VAL:HG12	18:6C:5:VAL:O	2.01	0.61
18:6C:47:SER:O	18:6C:51:MET:HG2	2.01	0.61
18:6D:47:SER:O	18:6D:51:MET:HG2	2.01	0.61
22:6K:124:PHE:HB2	22:6K:127:THR:HG23	1.83	0.61
23:6R:25:GLU:OE1	23:6R:25:GLU:HA	2.01	0.61
24:6Y:97:ARG:H	24:6Y:188:THR:CG2	2.13	0.61
26:7D:31:VAL:HG22	26:7D:107:MET:HB2	1.83	0.61
26:7E:31:VAL:HG22	26:7E:107:MET:HB2	1.83	0.61
26:7F:146:ASN:H	26:7F:146:ASN:ND2	1.98	0.61
30:7L:389:ARG:NH2	30:7L:393:ASP:OD1	2.34	0.61
34:7R:205:LEU:HD12	36:7V:91:PRO:HG3	1.82	0.61
2:8:26:LEU:HD22	26:7E:48:LEU:HD11	1.83	0.61
2:8:370:LYS:HG3	24:6W:88:TRP:HZ3	1.65	0.61
1:G2:65:LEU:HD12	1:G2:90:PHE:CE1	2.36	0.61
2:J1:417:GLU:HA	2:J1:420:GLU:HG2	1.83	0.61
2:J9:278:ALA:HA	2:J9:369:ALA:HB2	1.82	0.61
2:M5:121:ARG:CB	2:M5:121:ARG:NH1	2.63	0.61
2:O3:319:TYR:HB3	2:O3:323:VAL:HG21	1.82	0.61
2:O5:100:ALA:HA	1:O6:252:LYS:HE3	1.83	0.61
1:Q0:396:HIS:HA	1:Q0:399:THR:HG22	1.82	0.61
1:Q6:334:GLN:HE22	1:Q6:348:ASN:H	1.49	0.61
2:S1:79:ARG:NH1	2:S1:94:SER:OG	2.34	0.61
2:U5:73:THR:O	2:U5:77:GLU:HG2	2.01	0.61
1:U8:68:LEU:HB3	1:U8:96:GLY:HA2	1.82	0.61
2:V3:51:THR:HG21	2:V3:243:ARG:HG2	1.82	0.61
2:W1:89:PRO:HB2	2:X7:280:LYS:NZ	2.16	0.61
2:W7:2:ARG:HA	2:W7:133:GLN:HE21	1.65	0.61
1:X2:67:ASP:N	1:X2:67:ASP:OD1	2.33	0.61
1:X6:178:THR:OG1	2:X7:258:ASN:ND2	2.34	0.61
2:Y9:191:THR:HA	2:Y9:194:LEU:HB3	1.82	0.61
2:Z1:210:TYR:CE1	2:Z1:227:LEU:HD21	2.36	0.61
2:Z7:417:GLU:HA	2:Z7:420:GLU:HG2	1.83	0.61
1:0C:394:PHE:CE2	1:0C:397:TRP:HE3	2.19	0.61
1:0E:6:HIS:CE1	1:0E:8:GLN:HG3	2.36	0.61
2:0F:166:LYS:NZ	2:0F:199:ASP:OD2	2.33	0.61
2:0J:278:ALA:HA	2:0J:369:ALA:HB2	1.82	0.61
2:0P:56:THR:N	2:0P:60:LYS:O	2.33	0.61
1:0Q:5:VAL:HG23	1:0Q:62:ARG:HG2	1.82	0.61
1:0Y:389:PHE:CE1	1:0Y:395:LEU:HD11	2.36	0.61
2:1B:53:PHE:HB3	2:1B:61:HIS:HB3	1.83	0.61
2:1V:287:SER:N	2:1V:290:GLU:OE2	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2D:387:ILE:HG12	2:2D:390:ARG:HH22	1.66	0.61
1:2U:320:ARG:CZ	38:8B:201:LEU:HD23	2.30	0.61
2:3D:50:ASN:O	2:3D:64:ARG:NH2	2.33	0.61
2:3H:264:ARG:NH2	2:3H:431:ASP:OD2	2.34	0.61
2:3R:182:VAL:HG12	2:3R:185:TYR:HB2	1.82	0.61
6:4N:451:VAL:O	6:4N:455:VAL:HG23	2.01	0.61
11:5E:115:LEU:HD12	11:5E:119:THR:O	2.00	0.61
14:5L:21:LEU:HD21	14:5L:310:PHE:HB3	1.82	0.61
14:5M:21:LEU:HD21	14:5M:310:PHE:HB3	1.82	0.61
14:5M:415:LYS:HE3	23:6R:22:MET:HB2	1.79	0.61
1:9:281:TYR:HD2	1:T2:60:VAL:HG11	1.65	0.60
1:A9:277:GLY:HA2	24:6U:142:ILE:HG22	1.83	0.60
1:B1:39:ASP:O	18:5Y:119:ARG:NH1	2.33	0.60
1:E0:32:PRO:HG3	24:6T:402:LYS:HE3	1.81	0.60
2:G3:42:ILE:CD1	24:6W:470:ILE:HD13	2.17	0.60
2:G5:282:TYR:CE2	22:6N:212:GLU:OE1	2.54	0.60
1:G8:180:VAL:HG23	1:G8:184:ASN:HD21	1.66	0.60
2:G9:90:GLU:OE1	2:I5:283:HIS:ND1	2.33	0.60
1:H2:309:ARG:H	1:H2:372:THR:HG22	1.65	0.60
2:I1:222:PRO:HD2	1:I2:324:LYS:HE3	1.82	0.60
2:I1:267:PHE:HB2	2:I1:384:ILE:HD12	1.82	0.60
2:K1:315:CYS:HG	2:K1:379:SER:HG	1.46	0.60
2:K3:364:PRO:HB2	29:7I:233:LYS:HG2	1.82	0.60
1:K8:134:GLN:HE21	1:K8:167:PHE:HE2	1.48	0.60
1:L2:211:CYS:HA	1:L2:215:LEU:HB2	1.83	0.60
1:Q4:279:GLN:OE1	20:6F:93:ARG:NH2	2.34	0.60
2:R1:379:SER:OG	2:R1:380:ASN:N	2.34	0.60
1:S0:92:PHE:CZ	24:6Z:40:GLN:CG	2.83	0.60
1:S2:33:THR:HG22	1:S2:58:ARG:HH22	1.64	0.60
2:T1:102:ASN:HB3	2:T1:105:ARG:HB3	1.83	0.60
2:W5:109:THR:OG1	2:W5:411:GLU:OE2	2.15	0.60
2:W7:267:PHE:HB2	2:W7:384:ILE:HD12	1.81	0.60
2:Z1:115:VAL:HG21	2:Z1:152:LEU:HD22	1.83	0.60
2:Z1:319:TYR:HB3	2:Z1:323:VAL:HG21	1.83	0.60
2:Z5:405:VAL:HG13	2:Z5:418:PHE:HE2	1.65	0.60
1:Z6:285:THR:HB	1:Z6:287:PRO:HD2	1.83	0.60
1:0E:218:THR:HG23	1:0E:219:THR:HG23	1.83	0.60
1:0M:270:PHE:HD2	1:0M:273:LEU:HD11	1.66	0.60
1:1C:268:VAL:O	1:1C:300:MET:N	2.34	0.60
2:1H:65:CYS:SG	2:1H:66:ILE:N	2.74	0.60
2:1T:287:SER:N	2:1T:290:GLU:OE2	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1Z:113:GLU:HG2	38:7Z:7:ASP:HA	1.82	0.60
1:2E:163:MET:HB3	1:2E:250:LEU:HD22	1.82	0.60
1:2M:286:VAL:HG23	1:2M:287:PRO:HD3	1.82	0.60
2:3B:339:ARG:CG	38:8C:39:LYS:HZ2	2.14	0.60
2:3D:394:LYS:HA	2:3D:397:LEU:HG	1.82	0.60
2:3H:276:ILE:HG13	2:3H:280:LYS:HB2	1.83	0.60
2:3R:416:GLY:O	2:3R:420:GLU:HG2	1.99	0.60
1:3S:211:CYS:SG	1:3S:217:LEU:HB2	2.40	0.60
14:5N:21:LEU:HD21	14:5N:310:PHE:HB3	1.82	0.60
22:6N:180:SER:OG	22:6N:182:ASN:ND2	2.33	0.60
26:7D:38:ASN:ND2	26:7D:54:GLU:OE1	2.30	0.60
38:8A:84:ILE:HG23	38:8A:84:ILE:O	2.01	0.60
2:2:415:GLU:OE2	4:3W:86:TYR:CZ	2.53	0.60
2:E5:282:TYR:OH	22:6K:82:LEU:N	2.34	0.60
2:E9:58:ALA:HB2	24:6X:435:LEU:HD13	1.81	0.60
2:H1:363:VAL:HG23	2:H1:366:GLY:HA3	1.83	0.60
2:J9:301:MET:HE1	2:J9:307:PRO:HD3	1.82	0.60
2:K3:223:THR:OG1	1:K4:245:GLN:NE2	2.34	0.60
1:L2:257:LEU:HA	1:L2:312:THR:HG21	1.84	0.60
2:L3:417:GLU:HA	2:L3:420:GLU:HG2	1.84	0.60
2:L5:174:SER:HB3	2:L5:177:VAL:O	2.00	0.60
1:M6:73:MET:CE	1:M6:90:PHE:HB3	2.32	0.60
2:M7:198:THR:HG21	2:M7:201:ALA:HB2	1.83	0.60
2:N1:119:LEU:HA	2:N1:122:ILE:HG22	1.83	0.60
2:N9:88:HIS:CD2	2:P7:283:HIS:HB3	2.37	0.60
1:O2:134:GLN:HE21	1:O2:167:PHE:HE2	1.47	0.60
2:O3:69:ASP:OD1	2:O3:70:LEU:N	2.34	0.60
2:O5:27:GLU:OE1	2:O5:243:ARG:NH1	2.27	0.60
2:P7:114:ILE:HG21	2:P7:149:LEU:HD22	1.83	0.60
2:Q3:417:GLU:HA	2:Q3:420:GLU:HG2	1.84	0.60
1:R8:238:CYS:SG	1:R8:318:ARG:NE	2.74	0.60
2:R9:166:LYS:N	2:R9:199:ASP:OD2	2.32	0.60
1:T4:287:PRO:HB3	13:5J:100:MET:SD	2.41	0.60
2:U1:287:SER:N	2:U1:290:GLU:OE2	2.33	0.60
1:V6:343:GLU:HG2	1:V6:344:TRP:CD1	2.36	0.60
1:Y0:139:LEU:HD12	1:Y0:170:VAL:HG12	1.82	0.60
2:Z1:12:ALA:HB2	41:Z2:501:GTP:C8	2.37	0.60
1:Z8:208:TYR:CE1	1:Z8:225:LEU:HD11	2.35	0.60
2:0B:239:THR:HG23	2:0B:243:ARG:HE	1.66	0.60
2:0F:239:THR:HG23	2:0F:243:ARG:HE	1.66	0.60
1:0G:165:LEU:HD13	1:0G:167:PHE:HZ	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0K:165:LEU:HD22	1:0K:167:PHE:HE1	1.66	0.60
2:0L:352:LYS:NZ	2:0L:353:CYS:O	2.34	0.60
1:0M:334:GLN:HE22	1:0M:348:ASN:H	1.49	0.60
1:0U:177:ASP:O	2:0V:352:LYS:HA	2.00	0.60
2:1D:392:ASP:OD2	2:1D:422:ARG:NH1	2.34	0.60
1:1Q:276:ARG:NH2	9:4Z:203:GLU:OE2	2.31	0.60
2:2B:392:ASP:OD2	2:2B:422:ARG:NH1	2.34	0.60
1:2I:285:THR:HG23	1:2I:288:GLU:H	1.65	0.60
2:2J:381:SER:OG	2:2J:382:THR:N	2.34	0.60
2:2N:102:ASN:HB2	2:2N:407:TRP:CH2	2.36	0.60
2:2P:214:ARG:CZ	38:7Z:18:VAL:HA	2.32	0.60
2:2P:308:ARG:HH12	38:7Z:24:TYR:N	1.99	0.60
2:2Z:88:HIS:HB3	2:2Z:91:GLN:CG	2.31	0.60
1:3I:139:LEU:HD12	1:3I:170:VAL:HG12	1.83	0.60
2:3P:71:GLU:HB3	2:3P:98:ASP:OD1	2.01	0.60
1:3S:380:ARG:O	1:3S:383:GLU:HG3	2.00	0.60
7:4U:144:ALA:HB1	31:7N:115:GLN:HE22	1.65	0.60
7:4U:234:GLU:OE2	12:5G:295:ARG:NH1	2.34	0.60
15:5O:344:ARG:NH2	15:5O:358:CYS:SG	2.74	0.60
16:5Q:187:THR:HG23	16:5Q:190:SER:H	1.66	0.60
17:5S:174:SER:HB2	17:5S:175:PRO:HD2	1.83	0.60
22:6K:51:ILE:HA	22:6K:54:ARG:HD3	1.81	0.60
25:7C:80:ARG:HD2	27:7G:91:TYR:OH	2.01	0.60
38:8C:83:ARG:HD3	38:8C:83:ARG:O	2.01	0.60
1:C2:79:GLY:HA3	24:7A:221:ARG:HH22	1.65	0.60
2:G3:381:SER:OG	2:G3:382:THR:N	2.32	0.60
2:J1:145:THR:OG1	41:J2:501:GTP:O1B	2.19	0.60
2:J7:109:THR:OG1	2:J7:411:GLU:OE2	2.20	0.60
2:J7:207:GLU:OE1	2:J7:304:LYS:HE3	2.01	0.60
1:M6:5:VAL:HG23	1:M6:62:ARG:HG2	1.84	0.60
2:M9:282:TYR:HE1	30:7K:25:ALA:HB2	1.60	0.60
1:N2:140:GLY:O	1:N2:184:ASN:ND2	2.34	0.60
2:N3:289:ALA:O	2:N3:293:ASN:ND2	2.33	0.60
2:O3:313:MET:CG	2:O3:346:TRP:CH2	2.85	0.60
2:O7:203:MET:HE1	2:O7:267:PHE:HB3	1.84	0.60
2:O9:269:LEU:HG	2:O9:384:ILE:HD11	1.82	0.60
2:P7:56:THR:HA	2:R3:285:GLN:HB2	1.82	0.60
1:Q2:176:SER:HB3	2:Q3:349:THR:CG2	2.32	0.60
1:Q4:33:THR:O	1:Q4:58:ARG:NH2	2.34	0.60
1:T4:175:VAL:HG22	2:T5:329:ASN:HD21	1.66	0.60
1:T4:190:HIS:CD2	1:T4:414:ASN:HD22	2.19	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T6:92:PHE:CZ	24:7A:44:ALA:CB	2.71	0.60
2:V9:254:GLU:HB3	2:V9:352:LYS:HE2	1.83	0.60
1:W0:207:LEU:HB3	1:W0:225:LEU:HD22	1.82	0.60
1:W6:266:PHE:HE1	1:W6:370:ASN:HD22	1.47	0.60
2:W9:279:GLU:OE2	2:W9:279:GLU:HA	2.01	0.60
1:X2:11:GLN:HG3	1:X2:72:THR:HG22	1.83	0.60
2:X3:336:LYS:O	2:X3:339:ARG:NH2	2.34	0.60
1:X4:3:GLU:HB2	1:X4:130:LEU:HA	1.81	0.60
1:X4:275:SER:O	1:X4:279:GLN:HG3	2.01	0.60
2:X9:90:GLU:HG2	2:Z5:280:LYS:HE2	1.82	0.60
2:Z7:83:TYR:HB3	2:Z7:86:LEU:HB3	1.82	0.60
2:0H:392:ASP:OD2	2:0H:422:ARG:NH1	2.34	0.60
1:0S:103:LYS:CE	1:0S:108:GLU:HG2	2.31	0.60
1:1C:397:TRP:CE3	1:1C:397:TRP:HA	2.35	0.60
2:1H:145:THR:OG1	41:1H:501:GTP:O1B	2.19	0.60
2:1L:88:HIS:CD2	2:2B:283:HIS:HB3	2.31	0.60
1:1O:113:ILE:HA	1:1O:116:VAL:HG22	1.83	0.60
2:1X:27:GLU:OE1	2:1X:243:ARG:NH1	2.34	0.60
1:2K:50:TYR:CE2	1:2K:241:ARG:HD3	2.36	0.60
1:2Q:128:ASP:OD1	1:2Q:129:CYS:N	2.34	0.60
1:2Q:248:ALA:HA	1:2Q:252:LYS:HD2	1.82	0.60
2:2X:46:ASP:OD2	38:8C:211:LYS:HE2	2.00	0.60
1:3C:350:LYS:NZ	1:3C:352:SER:OG	2.34	0.60
1:3Q:113:ILE:HD13	1:3Q:150:LEU:HD22	1.83	0.60
2:3R:245:ASP:OD2	14:5N:192:THR:HG22	2.01	0.60
3:4F:38:THR:HG21	4:4G:3:LYS:HB2	1.82	0.60
5:4L:270:LYS:O	5:4L:274:ILE:HG12	2.01	0.60
9:4Z:401:ILE:O	9:4Z:405:GLN:HG3	2.01	0.60
15:5O:199:ASP:O	15:5O:202:PHE:O	2.20	0.60
17:5T:189:TRP:CD1	17:5T:222:ILE:CG2	2.82	0.60
24:6U:107:VAL:HG22	24:6U:108:GLU:H	1.65	0.60
24:6X:514:TYR:O	24:6X:517:LEU:HD12	2.00	0.60
24:7A:11:LEU:HD12	24:7A:12:PRO:HD2	1.84	0.60
35:7T:174:GLN:O	35:7T:178:GLU:HG2	2.01	0.60
2:G1:195:LEU:HD21	2:G1:264:ARG:HD2	1.83	0.60
2:G7:317:LEU:HB3	2:G7:319:TYR:HE1	1.67	0.60
2:H3:387:ILE:HG12	2:H3:390:ARG:HH22	1.65	0.60
2:H3:392:ASP:OD2	2:H3:422:ARG:NH1	2.35	0.60
1:I0:218:THR:H	24:6X:489:ASN:CB	2.15	0.60
2:K7:381:SER:OG	2:K7:382:THR:N	2.32	0.60
1:K8:248:ALA:CB	1:K8:252:LYS:HD3	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L4:2:ARG:HE	1:L4:240:LEU:HD22	1.65	0.60
2:L7:79:ARG:NH1	2:L7:92:LEU:O	2.35	0.60
1:M4:279:GLN:HB3	30:7K:170:ARG:HH22	1.66	0.60
1:N8:309:ARG:H	1:N8:372:THR:HG22	1.67	0.60
2:P3:307:PRO:HB2	2:P3:312:TYR:CE1	2.36	0.60
2:Q9:33:ASP:OD2	2:Q9:35:GLN:NE2	2.33	0.60
1:R8:257:LEU:HD21	1:R8:314:SER:HB3	1.83	0.60
1:S0:334:GLN:HE22	1:S0:348:ASN:H	1.48	0.60
1:T6:221:THR:HG23	1:T6:223:GLY:H	1.65	0.60
1:T6:328:GLU:HB3	17:5U:38:PHE:CZ	2.36	0.60
2:T7:211:ASP:OD2	13:5K:88:ARG:NE	2.21	0.60
1:U8:334:GLN:HE22	1:U8:348:ASN:H	1.49	0.60
1:V6:140:GLY:O	1:V6:184:ASN:ND2	2.34	0.60
2:V7:399:TYR:OH	2:V7:415:GLU:OE2	2.19	0.60
1:X2:33:THR:O	1:X2:58:ARG:NH2	2.34	0.60
1:Y2:111:GLU:HG2	1:Y2:112:LEU:HD22	1.84	0.60
1:Z2:21:TRP:HA	1:Z2:24:VAL:HG22	1.83	0.60
1:0A:113:ILE:HD13	1:0A:150:LEU:HD22	1.83	0.60
1:0U:334:GLN:HE22	1:0U:348:ASN:H	1.49	0.60
2:0X:9:ILE:HG22	2:0X:146:GLY:HA2	1.82	0.60
2:0Z:58:ALA:HB2	9:4Z:165:ARG:HH12	1.59	0.60
1:1E:8:GLN:O	1:1E:66:MET:HG2	2.01	0.60
2:1P:320:ARG:NH2	2:1P:359:PRO:O	2.34	0.60
2:1Z:121:ARG:NE	2:1Z:124:LYS:HE3	2.16	0.60
2:2B:132:LEU:HD22	2:2B:164:LYS:HD3	1.83	0.60
1:2Q:263:LEU:HD13	1:2Q:422:TYR:HE1	1.66	0.60
1:2Q:271:THR:HG23	1:2Q:365:ALA:HB3	1.83	0.60
2:2V:308:ARG:NH2	38:8B:72:ASP:HB2	2.11	0.60
1:3A:45:GLU:HG3	1:3A:46:ARG:HG2	1.82	0.60
2:3P:88:HIS:HB3	2:3P:91:GLN:NE2	2.17	0.60
2:3P:242:LEU:HD11	2:3P:252:ILE:HG12	1.83	0.60
2:3R:91:GLN:HE21	3:4H:36:PHE:HE2	1.50	0.60
14:5L:36:SER:N	14:5L:595:SER:OG	2.33	0.60
26:7E:38:ASN:ND2	26:7E:54:GLU:OE1	2.30	0.60
28:7H:399:VAL:O	28:7H:402:ARG:HG2	2.01	0.60
34:7S:156:GLN:O	34:7S:160:THR:HG23	2.01	0.60
2:8:29:GLY:C	26:7E:45:MET:HE1	2.19	0.60
1:G6:77:ARG:HG3	1:G6:90:PHE:CE2	2.35	0.60
2:G7:174:SER:OG	2:G7:205:ASP:OD1	2.19	0.60
2:H7:379:SER:OG	2:H7:380:ASN:N	2.33	0.60
1:J8:2:ARG:HE	1:J8:240:LEU:HD22	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K3:387:ILE:HG12	2:K3:390:ARG:HH22	1.67	0.60
2:L5:181:VAL:HB	1:L6:256:ASN:HD22	1.66	0.60
2:O5:11:GLN:OE1	2:O5:15:GLN:NE2	2.34	0.60
2:P9:18:ASN:ND2	19:6E:149:TYR:HE1	2.00	0.60
1:Q2:54:ALA:HA	1:R8:283:ALA:HB2	1.84	0.60
1:R2:102:ALA:HB1	1:R2:401:GLU:HB3	1.82	0.60
2:R5:196:GLU:HG2	17:5T:82:LYS:HZ2	1.66	0.60
1:R6:37:HIS:O	11:5E:71:ARG:NH1	2.29	0.60
1:S0:94:GLN:HE22	13:5K:17:LYS:C	2.04	0.60
2:S1:267:PHE:HB2	2:S1:384:ILE:HD12	1.83	0.60
2:S9:176:GLN:NE2	13:5I:90:PRO:HG3	2.17	0.60
2:T5:86:LEU:O	2:T5:86:LEU:HD12	2.01	0.60
2:V1:389:SER:N	2:V1:429:GLU:OE1	2.35	0.60
1:V8:56:GLY:O	8:4V:469:GLN:NE2	2.34	0.60
1:W0:161:ASP:O	1:W0:162:ARG:NH1	2.32	0.60
1:W4:113:ILE:HA	1:W4:116:VAL:HG12	1.82	0.60
2:W5:113:GLU:N	2:W5:113:GLU:OE2	2.35	0.60
2:W5:413:MET:HB3	2:W5:417:GLU:OE2	2.01	0.60
1:X2:268:VAL:HG23	1:X2:300:MET:HB2	1.84	0.60
1:X8:181:GLU:HG3	1:X8:182:PRO:HD3	1.83	0.60
1:X8:391:ARG:HG3	2:X9:346:TRP:HB3	1.83	0.60
1:Y2:201:VAL:HG12	1:Y2:266:PHE:O	2.01	0.60
1:Y2:397:TRP:HE1	2:Y3:260:VAL:HB	1.65	0.60
1:Y8:193:VAL:HG11	1:Y8:418:LEU:HD11	1.83	0.60
1:Z2:114:ASP:OD1	1:Z2:115:SER:N	2.34	0.60
1:O1:20:PHE:HA	1:O1:230:SER:OG	2.01	0.60
2:0R:298:PRO:HA	2:0R:301:MET:HG3	1.82	0.60
2:0V:167:LEU:HB3	2:0V:169:PHE:HE1	1.65	0.60
2:1D:250:VAL:HG23	2:1D:254:GLU:HG3	1.84	0.60
1:1K:163:MET:HB3	1:1K:250:LEU:HD22	1.82	0.60
1:1M:186:THR:HG22	1:1M:411:ALA:HB1	1.82	0.60
2:1N:56:THR:HG23	2:1N:60:LYS:HB3	1.84	0.60
1:2C:52:ASN:OD1	1:2C:62:ARG:NH2	2.35	0.60
2:2D:123:ARG:NH2	38:8A:37:TYR:HA	2.17	0.60
2:2F:222:PRO:HD2	1:2G:324:LYS:HE3	1.82	0.60
2:2T:280:LYS:HA	2:2T:283:HIS:ND1	2.16	0.60
1:2W:211:CYS:HA	1:2W:215:LEU:HB2	1.83	0.60
2:3B:223:THR:HG21	1:3C:245:GLN:HE22	1.67	0.60
2:3J:70:LEU:HB2	2:3J:98:ASP:HA	1.84	0.60
1:3O:272:PRO:HB2	1:3O:282:ARG:HH12	1.66	0.60
2:3P:222:PRO:HD2	1:3Q:324:LYS:HE3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:3W:44:SER:OG	4:3W:163:ARG:NH1	2.34	0.60
4:3Y:44:SER:OG	4:3Y:163:ARG:NH1	2.34	0.60
4:4A:44:SER:OG	4:4A:163:ARG:NH1	2.34	0.60
4:4I:44:SER:OG	4:4I:163:ARG:NH1	2.34	0.60
14:5N:36:SER:N	14:5N:595:SER:OG	2.33	0.60
15:5O:210:ALA:HB3	15:5O:213:THR:HG23	1.82	0.60
22:6I:54:ARG:HG3	24:6T:285:MET:HG2	1.83	0.60
24:6V:569:LYS:HB2	24:6V:572:ALA:HB3	1.84	0.60
1:A3:283:ALA:HB2	1:T6:54:ALA:HA	1.82	0.60
2:G3:221:ARG:NH1	22:6M:178:GLY:O	2.34	0.60
2:H3:399:TYR:O	2:H3:402:ARG:NH1	2.35	0.60
2:H7:222:PRO:HD2	1:H8:324:LYS:HE3	1.81	0.60
2:H7:399:TYR:O	2:H7:402:ARG:NH1	2.35	0.60
2:J9:88:HIS:CG	2:L5:283:HIS:HA	2.36	0.60
2:J9:90:GLU:HG3	2:J9:121:ARG:NH1	2.17	0.60
1:L0:211:CYS:HA	1:L0:215:LEU:HB2	1.83	0.60
2:L7:156:ARG:HA	2:L7:159:VAL:HG22	1.83	0.60
2:M3:73:THR:O	2:M3:77:GLU:HG2	2.02	0.60
1:N2:125:GLU:OE2	1:N2:159:TYR:OH	2.20	0.60
1:N8:177:ASP:O	2:N9:352:LYS:HA	2.01	0.60
2:P9:166:LYS:N	2:P9:199:ASP:OD2	2.27	0.60
1:Q8:77:ARG:HG2	24:6T:45:LEU:HD13	1.83	0.60
1:R2:178:THR:HB	1:R2:181:GLU:HG3	1.82	0.60
1:R6:177:ASP:O	2:R7:352:LYS:HA	2.00	0.60
2:S9:250:VAL:HG23	2:S9:254:GLU:HG3	1.82	0.60
1:U2:113:ILE:HA	1:U2:116:VAL:HG22	1.82	0.60
1:U4:224:ASP:OD2	1:U4:225:LEU:N	2.35	0.60
2:U5:109:THR:OG1	2:U5:411:GLU:OE2	2.15	0.60
1:V0:207:LEU:HB3	1:V0:225:LEU:HD22	1.82	0.60
2:W1:119:LEU:HA	2:W1:122:ILE:HG22	1.84	0.60
2:W5:98:ASP:OD1	2:W5:99:ALA:N	2.35	0.60
2:W9:9:ILE:CG2	2:W9:146:GLY:HA2	2.28	0.60
1:Y6:248:ALA:HA	1:Y6:252:LYS:HD2	1.84	0.60
2:Y9:202:VAL:HG22	2:Y9:268:MET:HB2	1.83	0.60
1:Z0:179:VAL:HG23	1:Z0:180:VAL:HG13	1.82	0.60
2:Z3:352:LYS:NZ	2:Z3:353:CYS:O	2.34	0.60
1:0G:248:ALA:CA	1:0G:252:LYS:HD3	2.31	0.60
1:1O:262:ARG:NH2	1:1O:417:ASP:OD1	2.34	0.60
1:1Q:102:ALA:HB1	1:1Q:401:GLU:HG2	1.84	0.60
1:2A:211:CYS:SG	1:2A:217:LEU:HB2	2.42	0.60
1:2W:248:ALA:HA	1:2W:252:LYS:HD2	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2X:222:PRO:HD2	1:2Y:324:LYS:HD2	1.83	0.60
2:3L:71:GLU:HB3	2:3L:98:ASP:OD1	2.02	0.60
2:3L:289:ALA:O	2:3L:293:ASN:ND2	2.35	0.60
2:3R:339:ARG:NH1	2:3R:341:ILE:O	2.34	0.60
4:4E:44:SER:OG	4:4E:163:ARG:NH1	2.34	0.60
4:4G:44:SER:OG	4:4G:163:ARG:NH1	2.34	0.60
7:4R:297:MET:HG3	20:6F:130:LEU:HD21	1.83	0.60
14:5L:22:ILE:HG13	14:5L:31:ILE:HG23	1.84	0.60
14:5M:363:PHE:CD1	14:5M:377:ARG:CD	2.81	0.60
14:5N:22:ILE:HG13	14:5N:31:ILE:HG23	1.84	0.60
14:5N:511:THR:HG21	14:5N:531:ASP:N	2.15	0.60
15:5P:43:ARG:HD3	37:7Y:72:ARG:O	2.02	0.60
21:6H:14:LEU:HG	21:6H:131:TYR:HE2	1.65	0.60
24:6T:10:LYS:NZ	12:7B:96:GLY:O	2.33	0.60
37:7Y:141:THR:HG22	37:7Y:142:ARG:H	1.65	0.60
2:2:282:TYR:OH	24:6T:89:VAL:HG21	2.01	0.60
1:A9:320:ARG:NH1	18:5X:53:GLY:HA3	2.16	0.60
1:B3:80:PRO:HD2	24:6W:221:ARG:HH12	1.67	0.60
1:F2:279:GLN:NE2	22:6O:103:ALA:O	2.35	0.60
2:H1:33:ASP:O	2:H1:60:LYS:NZ	2.32	0.60
1:K4:3:GLU:HB2	1:K4:130:LEU:HA	1.83	0.60
2:K7:377:MET:SD	2:K7:379:SER:OG	2.56	0.60
1:L6:2:ARG:HE	1:L6:240:LEU:HD22	1.65	0.60
1:M2:140:GLY:O	1:M2:184:ASN:ND2	2.32	0.60
1:M6:107:THR:OG1	1:M6:108:GLU:OE1	2.17	0.60
1:M8:177:ASP:O	2:M9:352:LYS:HA	2.01	0.60
2:M9:336:LYS:O	2:M9:339:ARG:NH2	2.35	0.60
1:N6:309:ARG:NH1	1:N6:339:SER:O	2.35	0.60
2:N9:100:ALA:HA	1:O0:252:LYS:HE2	1.83	0.60
2:O1:223:THR:HG23	2:O1:225:THR:H	1.65	0.60
2:O3:145:THR:OG1	41:O4:501:GTP:O1B	2.20	0.60
1:O4:131:GLN:HE21	1:O4:250:LEU:HB2	1.66	0.60
2:P5:176:GLN:HE22	2:P5:304:LYS:HE2	1.67	0.60
1:R6:227:HIS:NE2	24:6X:10:LYS:O	2.35	0.60
1:S6:345:ILE:O	1:S6:348:ASN:ND2	2.35	0.60
1:T6:53:GLU:N	1:T6:53:GLU:OE2	2.33	0.60
1:V4:2:ARG:HB3	1:V4:131:GLN:HB2	1.83	0.60
2:W9:264:ARG:NH2	2:W9:431:ASP:OD2	2.34	0.60
1:Y6:334:GLN:NE2	1:Y6:348:ASN:OD1	2.35	0.60
2:Z1:417:GLU:HA	2:Z1:420:GLU:HG2	1.84	0.60
2:Z5:212:ILE:HG23	2:Z5:275:ILE:HD12	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z9:90:GLU:HB2	2:0P:283:HIS:CE1	2.36	0.60
1:0C:3:GLU:HB2	1:0C:130:LEU:HA	1.84	0.60
2:0N:220:GLU:HG2	2:0N:221:ARG:HG3	1.84	0.60
1:0Y:2:ARG:HB3	1:0Y:131:GLN:HB2	1.84	0.60
1:1A:272:PRO:HB2	1:1A:282:ARG:HH12	1.67	0.60
2:1N:287:SER:N	2:1N:290:GLU:OE2	2.34	0.60
1:1S:330:MET:HB3	1:1S:349:VAL:HG11	1.83	0.60
1:2C:391:ARG:HG3	2:2D:346:TRP:CD2	2.35	0.60
2:2H:156:ARG:HH22	38:8B:29:GLY:HA2	1.67	0.60
1:3M:345:ILE:O	1:3M:348:ASN:ND2	2.35	0.60
4:4C:44:SER:OG	4:4C:163:ARG:NH1	2.34	0.60
11:5E:19:GLY:O	11:5E:23:ARG:HD3	2.02	0.60
13:5J:31:GLN:OE1	13:5J:32:ALA:N	2.34	0.60
14:5M:22:ILE:HG13	14:5M:31:ILE:HG23	1.84	0.60
14:5M:36:SER:N	14:5M:595:SER:OG	2.33	0.60
14:5M:434:THR:HG21	14:5M:439:ARG:HB2	1.83	0.60
15:5P:324:ARG:NH1	15:5P:360:ASP:O	2.35	0.60
16:5Q:184:GLU:OE1	16:5Q:184:GLU:N	2.33	0.60
20:6F:150:HIS:CE1	20:6F:157:PRO:HG3	2.36	0.60
37:7Y:72:ARG:HG2	37:7Y:72:ARG:HH21	1.66	0.60
1:G2:49:VAL:HG11	1:G2:241:ARG:HG2	1.83	0.60
2:G5:317:LEU:HB3	2:G5:319:TYR:HE1	1.66	0.60
2:I3:287:SER:N	2:I3:290:GLU:OE2	2.34	0.60
2:J3:88:HIS:HD2	2:K9:283:HIS:HB3	1.66	0.60
1:J4:334:GLN:HE22	1:J4:348:ASN:H	1.48	0.60
2:J5:145:THR:OG1	41:J6:501:GTP:O1B	2.20	0.60
2:L1:98:ASP:OD1	2:L1:99:ALA:N	2.35	0.60
2:L3:14:ILE:HD11	2:L3:74:VAL:HG13	1.84	0.60
2:L3:90:GLU:CD	29:7J:321:ARG:HH21	2.05	0.60
2:N1:287:SER:OG	2:N1:290:GLU:OE1	2.18	0.60
2:O3:240:ALA:HB1	2:O3:356:ASN:HD22	1.67	0.60
1:O4:391:ARG:HH22	2:O5:435:VAL:HA	1.67	0.60
2:O5:189:LEU:HD11	2:O5:418:PHE:HE1	1.67	0.60
1:P4:2:ARG:HB3	1:P4:131:GLN:HB2	1.83	0.60
1:R0:93:GLY:HA2	13:5H:118:THR:HG23	1.83	0.60
1:R6:5:VAL:HG12	1:R6:62:ARG:HD3	1.83	0.60
1:S8:157:GLU:OE2	3:3Z:90:ILE:HD12	2.01	0.60
1:S8:263:LEU:HD22	1:S8:422:TYR:CE1	2.36	0.60
1:T4:224:ASP:OD1	7:4U:133:GLY:HA3	2.01	0.60
2:U7:267:PHE:HB2	2:U7:384:ILE:HD12	1.84	0.60
2:V1:377:MET:SD	2:V1:379:SER:HB3	2.42	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V3:76:ASP:OD2	1:V4:46:ARG:NH2	2.35	0.60
1:X0:67:ASP:N	1:X0:67:ASP:OD1	2.34	0.60
1:X6:265:PHE:HD2	1:X6:422:TYR:HH	1.48	0.60
2:Z7:206:ASN:OD1	41:Z7:501:GTP:N2	2.24	0.60
2:1L:122:ILE:HA	2:1L:125:LEU:HB2	1.84	0.60
1:1O:180:VAL:HG23	1:1O:184:ASN:HD21	1.67	0.60
1:1Q:179:VAL:HG22	2:1R:258:ASN:HD22	1.66	0.60
1:2E:52:ASN:OD1	1:2E:62:ARG:NH2	2.34	0.60
1:2G:2:ARG:HE	1:2G:240:LEU:HD22	1.66	0.60
1:2U:139:LEU:HD12	1:2U:170:VAL:HG22	1.84	0.60
2:3J:133:GLN:HB3	2:3J:252:ILE:HG21	1.83	0.60
1:3K:213:ARG:HB2	1:3K:297:LYS:NZ	2.17	0.60
2:3N:392:ASP:OD2	2:3N:422:ARG:NH1	2.34	0.60
8:4W:468:MET:O	8:4X:127:THR:HG21	2.02	0.60
9:4Z:204:LEU:HA	9:4Z:207:LYS:HE2	1.82	0.60
10:5D:137:THR:O	10:5D:141:LEU:HG	2.02	0.60
12:5F:380:TRP:NE1	12:7B:38:PRO:HG2	2.15	0.60
14:5L:434:THR:HG21	14:5L:439:ARG:HB2	1.83	0.60
14:5N:434:THR:HG21	14:5N:439:ARG:HB2	1.83	0.60
15:5O:41:LYS:HB3	15:5O:41:LYS:NZ	2.15	0.60
24:6Z:132:VAL:HB	24:6Z:148:ILE:HB	1.82	0.60
2:C5:36:MET:HB2	22:6I:76:LYS:HE3	1.84	0.60
2:H1:340:THR:HG23	2:H1:341:ILE:HG12	1.83	0.60
2:H3:100:ALA:HB1	1:H4:252:LYS:HB3	1.82	0.60
1:H6:68:LEU:HB3	1:H6:96:GLY:HA2	1.84	0.60
1:I2:309:ARG:H	1:I2:372:THR:HG22	1.67	0.60
2:I5:70:LEU:HD13	2:I5:95:GLY:HA3	1.83	0.60
1:K0:330:MET:HB3	1:K0:349:VAL:HG11	1.83	0.60
2:K5:176:GLN:HE22	2:K5:304:LYS:HE2	1.67	0.60
2:K9:222:PRO:HD2	1:L0:324:LYS:HE3	1.83	0.60
2:L3:183:GLU:HG3	2:L3:184:PRO:HD3	1.84	0.60
2:M1:132:LEU:HD22	2:M1:164:LYS:HD3	1.84	0.60
1:M2:177:ASP:O	2:M3:352:LYS:HA	2.02	0.60
2:M3:283:HIS:NE2	30:7K:199:TYR:CZ	2.53	0.60
2:P3:238:LEU:HD11	2:P3:255:PHE:CZ	2.37	0.60
2:P5:9:ILE:HG22	2:P5:68:LEU:HD11	1.82	0.60
2:P9:381:SER:OG	2:P9:382:THR:N	2.32	0.60
1:Q4:135:VAL:HG21	1:Q4:152:ILE:HD11	1.84	0.60
1:R6:77:ARG:HG2	24:6X:45:LEU:HD11	1.83	0.60
2:R9:53:PHE:HB3	2:R9:61:HIS:HB3	1.84	0.60
2:S7:50:ASN:O	2:S7:64:ARG:NH2	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S8:1:MET:HE2	1:S8:1:MET:HA	1.83	0.60
1:U6:328:GLU:O	1:U6:332:ASN:ND2	2.34	0.60
2:W1:76:ASP:OD2	1:W2:46:ARG:NH2	2.35	0.60
1:W4:248:ALA:HA	1:W4:252:LYS:HD2	1.84	0.60
2:W9:51:THR:HG21	2:W9:243:ARG:HG2	1.84	0.60
1:X0:207:LEU:HB3	1:X0:225:LEU:HD22	1.84	0.60
2:X5:26:LEU:HD21	2:X5:363:VAL:HG12	1.84	0.60
1:Y0:171:PRO:O	1:Y0:380:ARG:NH2	2.35	0.60
2:Y1:76:ASP:HA	2:Y1:79:ARG:HB2	1.84	0.60
1:0G:54:ALA:N	1:0G:58:ARG:O	2.32	0.60
1:0K:116:VAL:HA	1:0K:119:VAL:HG12	1.83	0.60
2:0P:145:THR:OG1	41:0Q:501:GTP:O1B	2.20	0.60
2:0R:56:THR:N	2:0R:60:LYS:O	2.35	0.60
1:0S:210:ILE:O	1:0S:214:THR:OG1	2.16	0.60
2:1D:90:GLU:HB3	2:1D:121:ARG:NH2	2.17	0.60
1:1U:140:GLY:O	1:1U:184:ASN:ND2	2.35	0.60
2:2B:211:ASP:OD2	2:2B:214:ARG:NH2	2.35	0.60
2:2L:96:LYS:NZ	38:8C:5:LYS:O	2.27	0.60
2:2V:250:VAL:HG23	2:2V:254:GLU:HG3	1.82	0.60
1:3I:208:TYR:HE1	1:3I:225:LEU:HD11	1.67	0.60
13:5I:31:GLN:OE1	13:5I:32:ALA:N	2.34	0.60
14:5N:415:LYS:NZ	23:6S:22:MET:HB2	2.17	0.60
15:5O:179:THR:HA	15:5O:193:ARG:HH11	1.67	0.60
19:6E:79:HIS:CD2	37:7Y:49:PRO:HB3	2.37	0.60
24:6U:41:ARG:HE	24:6U:41:ARG:CA	2.14	0.60
24:6Y:32:THR:HG23	24:6Y:33:LEU:HG	1.84	0.60
26:7D:94:THR:O	26:7D:94:THR:OG1	2.20	0.60
26:7F:94:THR:O	26:7F:94:THR:OG1	2.20	0.60
35:7U:187:ASP:O	35:7U:191:MET:HG2	2.01	0.60
2:E7:206:ASN:OD1	41:E8:501:GTP:N2	2.25	0.60
2:F3:369:ALA:HB1	22:6O:82:LEU:HD13	1.83	0.60
2:G3:133:GLN:HG3	2:G3:242:LEU:HD11	1.83	0.60
1:G4:74:ASP:O	1:G4:78:SER:OG	2.20	0.60
2:H1:406:HIS:HA	2:H1:409:VAL:HG22	1.83	0.60
1:H2:68:LEU:HB3	1:H2:96:GLY:HA2	1.83	0.60
2:H7:27:GLU:OE1	2:H7:243:ARG:NH1	2.35	0.60
1:I4:276:ARG:NE	24:6Z:490:THR:O	2.35	0.60
2:I7:320:ARG:NH2	2:I7:359:PRO:O	2.34	0.60
2:K3:287:SER:N	2:K3:290:GLU:OE2	2.35	0.60
1:K6:5:VAL:HG12	1:K6:62:ARG:HD3	1.84	0.60
2:K7:194:LEU:O	2:K7:198:THR:HG22	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L5:9:ILE:HG22	2:L5:146:GLY:HA2	1.83	0.60
2:M1:287:SER:N	2:M1:290:GLU:OE2	2.35	0.60
2:N7:236:SER:OG	2:N7:243:ARG:NH2	2.34	0.60
2:Q1:69:ASP:OD1	2:Q1:70:LEU:N	2.34	0.60
1:Q2:238:CYS:SG	1:Q2:318:ARG:NE	2.75	0.60
1:R0:94:GLN:HG2	13:5H:119:VAL:O	2.02	0.60
2:T5:132:LEU:O	2:T5:164:LYS:NZ	2.35	0.60
1:T6:334:GLN:HE22	1:T6:348:ASN:H	1.50	0.60
1:V6:253:LEU:HA	1:V6:350:LYS:NZ	2.17	0.60
1:V6:292:GLN:O	1:V6:298:ASN:ND2	2.32	0.60
2:W3:33:ASP:O	2:W3:60:LYS:NZ	2.35	0.60
2:W5:415:GLU:OE2	2:W5:419:SER:OG	2.20	0.60
2:X5:121:ARG:HE	2:X5:124:LYS:NZ	2.00	0.60
2:X7:100:ALA:HA	1:X8:252:LYS:HG2	1.84	0.60
1:Y0:397:TRP:HE1	2:Y1:260:VAL:HB	1.67	0.60
2:Y1:25:CYS:O	2:Y1:30:ILE:N	2.32	0.60
1:Z4:58:ARG:HH11	1:Z4:84:ILE:HA	1.67	0.60
1:Z8:116:VAL:HA	1:Z8:119:VAL:HG12	1.82	0.60
2:Z9:101:ASN:HD22	1:0A:256:ASN:HD21	1.49	0.60
1:0M:309:ARG:NH1	1:0M:339:SER:O	2.35	0.60
2:0X:66:ILE:HD12	2:0X:68:LEU:HD23	1.84	0.60
1:1C:128:ASP:OD1	1:1C:129:CYS:N	2.34	0.60
2:1F:267:PHE:HB2	2:1F:384:ILE:HD12	1.83	0.60
2:1H:66:ILE:HG21	2:1H:122:ILE:HD11	1.84	0.60
2:1T:145:THR:OG1	41:1T:501:GTP:O1B	2.18	0.60
1:2A:4:ILE:HD11	1:2A:240:LEU:HD12	1.83	0.60
2:2F:130:THR:OG1	38:8B:116:GLN:NE2	2.35	0.60
2:2H:88:HIS:CE1	2:2H:90:GLU:HB3	2.36	0.60
1:2M:67:ASP:CG	1:2M:68:LEU:H	2.06	0.60
2:2P:98:ASP:OD1	2:2P:99:ALA:N	2.35	0.60
2:2V:214:ARG:HH22	1:2W:324:LYS:HD3	1.65	0.60
1:3O:77:ARG:NH1	3:4F:18:LYS:HB3	2.17	0.60
5:4M:222:GLU:OE1	29:7J:403:ARG:NH2	2.35	0.60
13:5H:31:GLN:OE1	13:5H:32:ALA:N	2.34	0.60
13:5K:31:GLN:OE1	13:5K:32:ALA:N	2.34	0.60
15:5O:73:LEU:HD23	15:5O:73:LEU:O	2.01	0.60
19:6E:92:ARG:HD3	19:6E:99:ARG:HE	1.65	0.60
24:6X:574:ARG:HE	24:6X:630:LEU:HD21	1.67	0.60
26:7E:94:THR:O	26:7E:94:THR:OG1	2.20	0.60
35:7T:84:ALA:O	35:7T:88:VAL:HG23	2.01	0.60
1:G0:224:ASP:OD1	24:6V:414:GLY:HA2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G2:207:LEU:HB3	1:G2:225:LEU:HD22	1.84	0.59
2:H3:301:MET:HE1	2:H3:307:PRO:HD3	1.84	0.59
1:I8:359:LYS:HD2	1:I8:360:GLY:H	1.66	0.59
2:I9:53:PHE:HB3	2:I9:61:HIS:HB3	1.83	0.59
2:J3:69:ASP:OD1	2:J3:70:LEU:N	2.35	0.59
2:J5:31:GLN:HG3	2:J5:37:PRO:HD3	1.82	0.59
2:L7:289:ALA:O	2:L7:293:ASN:ND2	2.35	0.59
1:M2:190:HIS:CD2	1:M2:411:ALA:HA	2.36	0.59
2:M3:76:ASP:OD2	1:M4:46:ARG:NH2	2.35	0.59
1:O0:177:ASP:O	2:O1:352:LYS:HA	2.02	0.59
2:O5:81:GLY:O	2:O5:84:ARG:NH1	2.34	0.59
2:P5:189:LEU:HD11	2:P5:418:PHE:HE1	1.66	0.59
2:P7:90:GLU:O	2:P7:121:ARG:NH1	2.32	0.59
2:R1:399:TYR:O	2:R1:402:ARG:NH1	2.35	0.59
1:R2:52:ASN:OD1	1:R2:62:ARG:NH2	2.35	0.59
1:U4:211:CYS:HA	1:U4:215:LEU:HB2	1.82	0.59
2:U9:284:GLU:O	2:U9:285:GLN:NE2	2.35	0.59
1:V2:156:ARG:NH1	1:V2:197:ASP:OD1	2.34	0.59
1:V6:125:GLU:OE2	1:V6:159:TYR:OH	2.17	0.59
1:V8:170:VAL:N	1:V8:202:LEU:O	2.32	0.59
2:V9:98:ASP:OD1	2:V9:99:ALA:N	2.35	0.59
1:W0:107:THR:OG1	1:W0:401:GLU:OE2	2.13	0.59
2:W5:155:GLU:HG3	2:W5:197:HIS:NE2	2.16	0.59
1:W8:49:VAL:HG11	1:W8:241:ARG:HG2	1.84	0.59
1:X2:218:THR:HG23	1:X2:219:THR:HG23	1.84	0.59
2:Y1:406:HIS:HA	2:Y1:409:VAL:HG22	1.84	0.59
2:0H:398:MET:HG2	1:0I:345:ILE:HG12	1.83	0.59
1:0O:392:LYS:HB3	1:0O:395:LEU:HD22	1.84	0.59
2:0R:278:ALA:HA	2:0R:369:ALA:HB2	1.84	0.59
1:1C:211:CYS:HA	1:1C:215:LEU:HB2	1.84	0.59
2:1N:85:GLN:HE21	2:1N:85:GLN:HA	1.67	0.59
2:2J:88:HIS:CE1	2:2J:89:PRO:HD2	2.37	0.59
2:2L:27:GLU:OE1	2:2L:243:ARG:NH1	2.35	0.59
1:3C:391:ARG:HH22	2:3D:435:VAL:HA	1.67	0.59
2:3F:278:ALA:HA	2:3F:369:ALA:HB2	1.81	0.59
5:4M:252:GLU:HA	5:4M:255:ASN:ND2	2.17	0.59
9:4Y:424:TYR:O	9:4Y:427:GLU:HG3	2.01	0.59
14:5L:226:VAL:HG12	14:5L:226:VAL:O	2.02	0.59
22:6I:150:TYR:HB3	22:6I:228:PHE:HD1	1.66	0.59
26:7E:59:ARG:HG2	26:7E:59:ARG:HH11	1.67	0.59
1:B8:94:GLN:HG2	24:6Y:250:LEU:HD11	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G3:49:PHE:HB2	2:G3:53:PHE:HD2	1.67	0.59
1:I8:175:VAL:HG12	2:I9:329:ASN:ND2	2.15	0.59
2:I9:33:ASP:O	2:I9:60:LYS:NZ	2.34	0.59
1:J4:67:ASP:OD2	1:J4:72:THR:OG1	2.20	0.59
2:L1:405:VAL:HG13	2:L1:418:PHE:HE2	1.68	0.59
2:N9:417:GLU:HA	2:N9:420:GLU:HG2	1.82	0.59
1:P8:53:GLU:OE1	7:4R:109:GLN:CG	2.50	0.59
1:Q8:113:ILE:HA	1:Q8:116:VAL:HG12	1.84	0.59
2:R3:98:ASP:OD1	2:R3:99:ALA:N	2.34	0.59
2:R7:413:MET:O	17:5U:117:PRO:HG3	2.02	0.59
1:T0:65:LEU:HD12	1:T0:90:PHE:CE1	2.36	0.59
2:T1:334:THR:HG22	13:5I:134:PHE:H	1.66	0.59
1:T4:238:CYS:SG	1:T4:318:ARG:NE	2.75	0.59
1:T6:414:ASN:ND2	3:4H:84:LYS:HD2	2.16	0.59
1:V4:3:GLU:HB2	1:V4:130:LEU:HD13	1.84	0.59
1:V4:67:ASP:OD2	1:V4:72:THR:OG1	2.15	0.59
1:X6:113:ILE:HA	1:X6:116:VAL:HG22	1.84	0.59
2:Y1:109:THR:OG1	2:Y1:411:GLU:OE2	2.19	0.59
1:Y4:328:GLU:O	1:Y4:332:ASN:ND2	2.35	0.59
1:Y8:125:GLU:OE2	1:Y8:159:TYR:OH	2.19	0.59
2:Z7:91:GLN:HE22	2:0N:283:HIS:CE1	2.17	0.59
1:Z8:311:LEU:HD23	1:Z8:312:THR:HG23	1.83	0.59
2:Z9:166:LYS:N	2:Z9:199:ASP:OD2	2.35	0.59
1:0A:2:ARG:HE	1:0A:240:LEU:HD22	1.67	0.59
1:0K:393:ALA:C	1:0K:395:LEU:H	2.06	0.59
2:0L:320:ARG:HD3	2:0L:360:PRO:HG3	1.83	0.59
2:0N:221:ARG:HB3	1:0O:322:SER:OG	2.02	0.59
1:0S:342:VAL:HG12	1:0S:348:ASN:HD21	1.67	0.59
2:0V:381:SER:OG	2:0V:382:THR:N	2.35	0.59
1:1E:72:THR:O	1:1E:76:VAL:HG23	2.03	0.59
1:1S:113:ILE:HD13	1:1S:150:LEU:HD22	1.84	0.59
2:2B:279:GLU:HA	2:2B:279:GLU:OE2	2.01	0.59
1:2I:91:VAL:HG11	1:2I:116:VAL:HG12	1.84	0.59
1:2I:215:LEU:HD21	1:2I:273:LEU:HD12	1.85	0.59
2:2N:9:ILE:HG22	2:2N:146:GLY:HA2	1.84	0.59
1:2Q:209:ASP:OD2	38:8A:105:ARG:O	2.20	0.59
1:2Q:320:ARG:CZ	38:8A:198:THR:HA	2.32	0.59
1:2Q:391:ARG:HG3	2:2R:346:TRP:CD2	2.36	0.59
2:2V:340:THR:OG1	38:8B:78:ASP:OD2	2.10	0.59
2:2V:399:TYR:O	2:2V:402:ARG:NH1	2.35	0.59
1:2Y:6:HIS:NE2	1:2Y:136:CYS:SG	2.75	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2Z:258:ASN:OD1	2:2Z:352:LYS:NZ	2.33	0.59
2:3L:124:LYS:HZ2	3:4B:36:PHE:HD1	1.50	0.59
1:3M:178:THR:HG23	1:3M:181:GLU:HG3	1.83	0.59
10:5A:397:LEU:O	10:5A:401:GLU:HG2	2.01	0.59
12:5F:58:ARG:O	12:5F:59:GLU:HG3	2.02	0.59
12:5F:298:ASP:HB2	12:7B:13:PRO:CG	2.32	0.59
14:5L:31:ILE:HD11	14:5L:38:ILE:HD12	1.84	0.59
14:5M:31:ILE:HD11	14:5M:38:ILE:HD12	1.84	0.59
14:5N:31:ILE:HD11	14:5N:38:ILE:HD12	1.84	0.59
17:5S:53:ASP:N	17:5S:53:ASP:OD1	2.32	0.59
17:5S:220:ALA:HA	17:5S:223:GLU:HB2	1.83	0.59
17:5T:53:ASP:N	17:5T:53:ASP:OD1	2.32	0.59
17:5T:220:ALA:HA	17:5T:223:GLU:HB2	1.83	0.59
18:5Y:181:GLN:O	18:5Y:185:THR:OG1	2.19	0.59
24:6T:135:PRO:HG2	24:6T:137:GLN:HE22	1.66	0.59
24:6V:525:VAL:HB	24:6V:530:PHE:HE2	1.65	0.59
38:8A:93:LYS:HE3	38:8A:93:LYS:O	2.02	0.59
2:A2:263:PRO:HG2	4:4G:116:PRO:HG3	1.82	0.59
1:G2:149:THR:HB	1:G2:191:GLN:HG2	1.83	0.59
2:G5:15:GLN:HB3	2:G5:228:ASN:HD21	1.67	0.59
1:H6:257:LEU:HD21	1:H6:314:SER:HB3	1.84	0.59
2:I3:176:GLN:HG2	2:I3:177:VAL:HG23	1.84	0.59
2:J3:33:ASP:OD1	2:J3:35:GLN:NE2	2.35	0.59
2:L3:69:ASP:OD1	2:L3:70:LEU:N	2.35	0.59
2:L7:183:GLU:HG3	2:L7:184:PRO:HD3	1.84	0.59
1:M2:52:ASN:OD1	1:M2:62:ARG:NH2	2.35	0.59
2:M5:27:GLU:OE1	2:M5:243:ARG:NH1	2.34	0.59
2:M7:399:TYR:OH	2:M7:415:GLU:OE1	2.18	0.59
1:N8:135:VAL:HG21	1:N8:152:ILE:HD11	1.82	0.59
1:Q0:248:ALA:HA	1:Q0:252:LYS:HD3	1.84	0.59
1:R0:49:VAL:HG11	1:R0:241:ARG:HG2	1.84	0.59
1:R8:190:HIS:NE2	1:R8:410:GLU:OE2	2.36	0.59
1:S6:292:GLN:HG2	1:S6:298:ASN:HD22	1.67	0.59
1:S8:309:ARG:NH1	1:S8:339:SER:O	2.35	0.59
2:S9:253:THR:HA	2:S9:256:GLN:OE1	2.02	0.59
2:T5:259:LEU:HD21	2:T5:316:CYS:HB2	1.83	0.59
1:T8:375:GLN:HB2	1:T8:419:VAL:HG13	1.83	0.59
1:T8:418:LEU:HG	1:T8:422:TYR:CE2	2.32	0.59
2:U1:172:TYR:N	2:U1:204:LEU:O	2.34	0.59
2:U3:286:LEU:H	2:U3:286:LEU:HD23	1.68	0.59
1:U8:177:ASP:O	2:U9:352:LYS:HA	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V0:177:ASP:O	2:V1:352:LYS:HA	2.01	0.59
1:V8:58:ARG:NH1	1:V8:84:ILE:HA	2.18	0.59
1:V8:211:CYS:HA	1:V8:215:LEU:HB2	1.85	0.59
1:W0:183:TYR:HB3	1:W0:398:TYR:HE2	1.67	0.59
1:X4:309:ARG:NH1	1:X4:339:SER:O	2.36	0.59
2:X7:90:GLU:OE1	2:X7:90:GLU:N	2.34	0.59
2:Y1:52:PHE:CE2	2:Y1:243:ARG:HD3	2.37	0.59
1:Y4:177:ASP:O	2:Y5:352:LYS:HA	2.01	0.59
2:Y5:53:PHE:HB3	2:Y5:61:HIS:HB3	1.84	0.59
2:Y5:223:THR:HG22	2:Y5:224:TYR:H	1.67	0.59
1:Y6:112:LEU:O	1:Y6:115:SER:OG	2.18	0.59
1:Y6:171:PRO:O	1:Y6:380:ARG:NH2	2.35	0.59
1:Y8:86:ARG:NH2	1:0E:281:TYR:O	2.34	0.59
1:0C:166:THR:HG23	1:0C:199:CYS:HB3	1.83	0.59
2:0J:167:LEU:HG	2:0J:252:ILE:HD11	1.85	0.59
1:0S:207:LEU:HD11	1:0S:229:ILE:HD11	1.83	0.59
1:0W:7:ILE:HD13	1:0W:151:LEU:HD21	1.82	0.59
1:0W:55:THR:HG22	1:1M:284:LEU:HD12	1.84	0.59
2:0X:336:LYS:O	2:0X:339:ARG:NH2	2.32	0.59
2:1D:336:LYS:O	2:1D:339:ARG:NH2	2.35	0.59
1:1Q:396:HIS:H	1:1Q:396:HIS:CD2	2.19	0.59
1:1W:244:GLY:H	1:1W:247:ASN:HD21	1.49	0.59
2:2H:282:TYR:CZ	10:5B:164:ASP:OD1	2.55	0.59
2:2Z:222:PRO:HD2	1:3A:324:LYS:HE3	1.83	0.59
1:3M:285:THR:HG23	1:3M:288:GLU:H	1.67	0.59
12:5F:53:HIS:O	12:5F:58:ARG:NH2	2.35	0.59
14:5N:127:ASN:HB2	38:8D:227:LYS:HZ3	1.67	0.59
18:6D:181:GLN:O	18:6D:185:THR:OG1	2.19	0.59
22:6N:63:PRO:HB2	24:6Y:399:ILE:HG12	1.83	0.59
24:6W:566:VAL:HG23	24:6W:573:VAL:HG11	1.84	0.59
24:6Y:97:ARG:H	24:6Y:188:THR:HG21	1.68	0.59
34:7R:260:ARG:O	34:7R:264:GLU:HG2	2.01	0.59
35:7T:162:ASN:O	35:7T:166:GLU:HG2	2.03	0.59
1:G0:388:MET:SD	2:G1:348:PRO:HD3	2.42	0.59
1:G8:139:LEU:HD12	1:G8:170:VAL:HG22	1.84	0.59
2:H1:394:LYS:HA	2:H1:397:LEU:HG	1.84	0.59
1:H2:334:GLN:HE22	1:H2:348:ASN:H	1.50	0.59
2:I7:417:GLU:HA	2:I7:420:GLU:HG2	1.84	0.59
1:K0:186:THR:HG23	1:K0:187:LEU:HD12	1.84	0.59
1:K4:345:ILE:O	1:K4:348:ASN:ND2	2.36	0.59
1:K6:5:VAL:HG22	1:K6:133:PHE:HD1	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K9:101:ASN:HB2	1:L0:252:LYS:HG3	1.85	0.59
2:M3:46:ASP:HB2	2:M3:49:PHE:CD2	2.38	0.59
2:M3:391:LEU:HD23	2:M3:394:LYS:HD2	1.84	0.59
1:M8:309:ARG:NH1	1:M8:339:SER:O	2.35	0.59
1:N2:221:THR:OG1	29:7J:97:ARG:NH1	2.35	0.59
1:N8:65:LEU:HD12	1:N8:90:PHE:CE1	2.38	0.59
2:P5:286:LEU:O	2:P5:373:ARG:NH1	2.35	0.59
2:P9:308:ARG:NH1	2:U7:282:TYR:OH	2.35	0.59
2:P9:387:ILE:HD12	2:P9:390:ARG:HH22	1.66	0.59
2:Q1:339:ARG:HD3	5:4M:18:LEU:HD21	1.84	0.59
1:Q8:23:VAL:O	1:Q8:27:GLU:HG2	2.01	0.59
1:R8:198:GLU:HA	1:R8:264:HIS:HB2	1.84	0.59
1:S0:4:ILE:HD11	1:S0:240:LEU:HD12	1.84	0.59
1:S4:50:TYR:OH	1:S4:237:THR:OG1	2.21	0.59
2:S5:195:LEU:HD21	2:S5:264:ARG:HH21	1.66	0.59
1:V6:172:SER:OG	1:V6:380:ARG:NH1	2.36	0.59
1:W4:68:LEU:HD23	1:W4:93:GLY:HA3	1.84	0.59
1:X0:211:CYS:HA	1:X0:215:LEU:HB2	1.82	0.59
1:X6:309:ARG:O	1:X6:371:SER:OG	2.18	0.59
2:X7:223:THR:OG1	1:X8:245:GLN:NE2	2.35	0.59
2:X7:292:THR:OG1	2:X7:319:TYR:OH	2.18	0.59
1:Z4:287:PRO:HA	1:Z4:290:THR:HG22	1.83	0.59
1:0C:250:LEU:HD12	1:0C:250:LEU:H	1.66	0.59
1:0E:165:LEU:HD12	1:0E:167:PHE:HE1	1.66	0.59
1:0U:52:ASN:OD1	1:0U:62:ARG:NH2	2.34	0.59
2:0Z:85:GLN:OE1	2:1P:283:HIS:CE1	2.54	0.59
2:1F:132:LEU:O	2:1F:164:LYS:NZ	2.34	0.59
1:1G:68:LEU:HB3	1:1G:96:GLY:HA2	1.85	0.59
1:1M:139:LEU:HD12	1:1M:170:VAL:HG22	1.85	0.59
1:1O:252:LYS:HE2	1:1O:350:LYS:HE2	1.85	0.59
2:1Z:343:PHE:HZ	2:1Z:351:PHE:HE1	1.51	0.59
2:2D:286:LEU:O	2:2D:373:ARG:NH1	2.35	0.59
2:2H:18:ASN:HD21	2:2H:78:VAL:HG22	1.66	0.59
2:3D:79:ARG:NH1	2:3D:92:LEU:O	2.35	0.59
1:3G:248:ALA:HA	1:3G:252:LYS:HD2	1.84	0.59
1:3K:95:THR:HG21	3:4B:138:GLY:HA2	1.84	0.59
11:5E:159:LEU:HD11	11:5E:230:ASP:OD1	2.02	0.59
13:5H:28:ASP:HA	13:5H:31:GLN:HE21	1.67	0.59
13:5K:28:ASP:HA	13:5K:31:GLN:HE21	1.67	0.59
14:5L:564:ASP:OD1	14:5L:565:GLY:N	2.35	0.59
14:5M:564:ASP:OD1	14:5M:565:GLY:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:5N:564:ASP:OD1	14:5N:565:GLY:N	2.36	0.59
17:5U:220:ALA:HA	17:5U:223:GLU:HB2	1.84	0.59
18:5Z:181:GLN:O	18:5Z:185:THR:OG1	2.19	0.59
18:6A:181:GLN:O	18:6A:185:THR:OG1	2.19	0.59
18:6B:181:GLN:O	18:6B:185:THR:OG1	2.19	0.59
24:6Y:97:ARG:NH2	24:6Y:99:TYR:OH	2.35	0.59
24:6Y:354:ARG:HB2	24:6Y:357:LEU:HG	1.85	0.59
24:7A:132:VAL:HB	24:7A:148:ILE:HB	1.85	0.59
32:7P:175:LEU:HG	32:7P:180:ALA:HB2	1.85	0.59
1:5:194:GLU:OE2	3:3Z:240:ARG:NH1	2.34	0.59
1:F8:216:LYS:C	24:6U:422:ASN:HD21	2.05	0.59
2:G9:322:ASP:HB3	2:G9:373:ARG:HH21	1.68	0.59
1:H4:211:CYS:HA	1:H4:215:LEU:HB2	1.82	0.59
2:H5:222:PRO:HD2	1:H6:324:LYS:HE3	1.85	0.59
1:H6:139:LEU:HG	1:H6:168:SER:HB3	1.84	0.59
2:H9:379:SER:OG	2:H9:380:ASN:N	2.32	0.59
2:H9:387:ILE:HG12	2:H9:390:ARG:HH22	1.66	0.59
2:I3:179:THR:O	1:I4:350:LYS:HD2	2.03	0.59
1:J2:139:LEU:HD12	1:J2:170:VAL:HG12	1.85	0.59
2:K3:145:THR:OG1	41:K4:501:GTP:O1B	2.20	0.59
1:M0:3:GLU:HB2	1:M0:130:LEU:HA	1.84	0.59
1:M4:200:MET:HE3	1:M4:268:VAL:HG21	1.84	0.59
2:M9:280:LYS:HZ2	29:7J:320:PRO:CB	2.15	0.59
1:N2:199:CYS:HG	1:N2:265:PHE:HD1	1.50	0.59
2:O1:199:ASP:HB3	2:O1:256:GLN:NE2	2.16	0.59
1:O4:190:HIS:CD2	1:O4:411:ALA:HA	2.38	0.59
2:P3:129:CYS:SG	2:P3:130:THR:N	2.74	0.59
2:P7:90:GLU:HG2	2:P7:121:ARG:NH1	2.17	0.59
2:P7:166:LYS:N	2:P7:199:ASP:OD2	2.35	0.59
1:T4:173:PRO:HB3	1:T4:384:GLN:NE2	2.17	0.59
1:T4:273:LEU:O	1:T4:292:GLN:NE2	2.32	0.59
1:T4:407:GLU:OE2	3:4F:81:PHE:HB3	2.02	0.59
1:T6:178:THR:HB	1:T6:181:GLU:HG3	1.83	0.59
1:V2:2:ARG:HB3	1:V2:131:GLN:HB2	1.84	0.59
2:V3:220:GLU:HG2	2:V3:221:ARG:HG3	1.84	0.59
1:V8:67:ASP:N	1:V8:67:ASP:OD1	2.34	0.59
2:W9:224:TYR:HB2	1:X0:245:GLN:HE21	1.67	0.59
2:X3:236:SER:O	2:X3:243:ARG:NH2	2.33	0.59
2:X7:284:GLU:HG2	2:X7:285:GLN:N	2.18	0.59
1:Y2:122:LYS:O	1:Y2:126:SER:OG	2.14	0.59
1:Y6:11:GLN:N	39:Y6:502:GDP:O1B	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y8:3:GLU:HB2	1:Y8:130:LEU:HA	1.84	0.59
2:Z3:399:TYR:O	2:Z3:402:ARG:NH1	2.36	0.59
1:Z4:190:HIS:HD2	1:Z4:414:ASN:HB2	1.67	0.59
2:Z5:265:ILE:CD1	2:Z5:435:VAL:HG21	2.31	0.59
2:0F:178:SER:HB3	1:0G:347:ASN:HD22	1.67	0.59
2:0H:387:ILE:HD13	2:0H:390:ARG:HH12	1.67	0.59
2:0J:381:SER:OG	2:0J:382:THR:N	2.35	0.59
2:0X:286:LEU:HD11	2:0X:372:GLN:HB2	1.84	0.59
1:1A:26:ASP:O	1:1A:359:LYS:NZ	2.23	0.59
1:1C:2:ARG:HB3	1:1C:131:GLN:HB2	1.84	0.59
1:1G:371:SER:OG	1:1G:372:THR:N	2.35	0.59
2:1H:88:HIS:CD2	2:1X:283:HIS:HB3	2.37	0.59
1:1K:86:ARG:HB3	1:1K:89:ASN:ND2	2.18	0.59
2:1N:259:LEU:HD21	2:1N:316:CYS:HB2	1.85	0.59
1:1O:276:ARG:HD3	9:4Z:147:GLU:OE1	2.02	0.59
1:1S:140:GLY:O	1:1S:184:ASN:ND2	2.35	0.59
1:1U:309:ARG:H	1:1U:372:THR:HG22	1.68	0.59
2:1X:271:SER:HB3	2:1X:301:MET:HA	1.83	0.59
2:1Z:92:LEU:N	2:1Z:92:LEU:HD23	2.17	0.59
1:2G:113:ILE:HA	1:2G:116:VAL:HG12	1.85	0.59
2:2Z:297:GLU:OE1	38:8C:74:ILE:CG2	2.42	0.59
2:3H:267:PHE:HB2	2:3H:384:ILE:HD12	1.83	0.59
1:3M:49:VAL:HG11	1:3M:241:ARG:HG2	1.84	0.59
1:3M:175:VAL:HG22	2:3N:329:ASN:HD21	1.68	0.59
1:3O:237:THR:HG23	1:3O:241:ARG:HE	1.68	0.59
1:3S:128:ASP:OD1	1:3S:129:CYS:N	2.35	0.59
7:4R:8:VAL:CG2	7:4R:9:PRO:CD	2.79	0.59
10:5B:120:GLU:HG3	10:5C:359:ARG:HH12	1.67	0.59
14:5L:382:ASN:ND2	23:6Q:62:GLN:O	2.35	0.59
17:5U:53:ASP:N	17:5U:53:ASP:OD1	2.32	0.59
18:6C:181:GLN:O	18:6C:185:THR:OG1	2.19	0.59
22:6K:138:ASP:HA	22:6K:141:LYS:HG3	1.84	0.59
22:6P:265:ASP:OD1	22:6P:266:LYS:N	2.35	0.59
24:6V:376:LYS:HA	24:6V:390:MET:HE2	1.84	0.59
30:7K:195:ARG:HD2	30:7K:197:ARG:HH21	1.67	0.59
37:7Y:140:SER:OG	37:7Y:141:THR:O	2.21	0.59
2:G5:178:SER:HB3	1:G6:347:ASN:HD22	1.66	0.59
1:J6:77:ARG:HD3	1:J6:90:PHE:HE2	1.68	0.59
2:J7:27:GLU:OE1	2:J7:243:ARG:NH1	2.35	0.59
2:K7:88:HIS:HD2	2:K7:91:GLN:HG3	1.67	0.59
2:L5:261:PRO:HG3	2:L5:313:MET:HE3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M4:88:ASP:H	2:O1:283:HIS:CE1	2.20	0.59
2:M5:58:ALA:HB2	37:7Y:214:ASP:HB3	1.83	0.59
2:N1:79:ARG:O	2:N1:84:ARG:HG2	2.03	0.59
2:N5:417:GLU:HA	2:N5:420:GLU:HG2	1.83	0.59
1:O4:117:LEU:HA	1:O4:120:VAL:HG12	1.83	0.59
1:O6:36:TYR:CZ	1:O6:44:LEU:HD21	2.37	0.59
1:O6:354:CYS:SG	1:O6:355:ASP:N	2.76	0.59
1:P4:67:ASP:OD1	1:P4:72:THR:OG1	2.21	0.59
1:P6:289:LEU:HD23	1:P6:365:ALA:HB2	1.83	0.59
2:Q5:121:ARG:HD2	2:Q5:121:ARG:O	2.03	0.59
1:R8:190:HIS:CD2	1:R8:414:ASN:HB2	2.37	0.59
2:R9:392:ASP:OD2	2:R9:422:ARG:NH1	2.36	0.59
2:S1:305:CYS:HB3	2:S1:387:ILE:HD11	1.85	0.59
1:S4:74:ASP:OD1	24:6U:33:LEU:HD11	2.02	0.59
2:S9:27:GLU:OE2	2:S9:243:ARG:NH1	2.36	0.59
1:T0:350:LYS:NZ	1:T0:352:SER:OG	2.35	0.59
1:T4:373:ALA:O	1:T4:376:GLU:HG3	2.03	0.59
1:U2:177:ASP:O	2:U3:352:LYS:HA	2.02	0.59
1:W0:5:VAL:HG23	1:W0:62:ARG:HG2	1.84	0.59
1:W6:334:GLN:HE22	1:W6:348:ASN:H	1.51	0.59
2:W9:399:TYR:O	2:W9:402:ARG:NH1	2.35	0.59
2:X7:90:GLU:HB3	2:X7:121:ARG:HH12	1.67	0.59
2:X7:417:GLU:HA	2:X7:420:GLU:HG2	1.85	0.59
1:Y4:3:GLU:HB2	1:Y4:130:LEU:HA	1.84	0.59
2:Y9:53:PHE:HB3	2:Y9:61:HIS:HB3	1.84	0.59
2:Z3:33:ASP:OD2	2:Z3:35:GLN:NE2	2.36	0.59
1:Z6:202:LEU:HD23	1:Z6:229:ILE:HD13	1.84	0.59
1:Z6:204:ASN:ND2	39:Z6:502:GDP:HN22	2.01	0.59
2:Z7:166:LYS:N	2:Z7:199:ASP:OD2	2.35	0.59
2:Z7:181:VAL:HG23	2:Z7:182:VAL:HG13	1.85	0.59
1:0E:68:LEU:HB3	1:0E:96:GLY:HA2	1.84	0.59
2:0F:109:THR:OG1	2:0F:411:GLU:OE2	2.20	0.59
2:0H:156:ARG:HA	2:0H:159:VAL:HG12	1.85	0.59
1:0I:183:TYR:HB3	1:0I:398:TYR:HE2	1.68	0.59
1:0S:372:THR:OG1	1:0S:375:GLN:OE1	2.21	0.59
1:0Y:139:LEU:HD12	1:0Y:170:VAL:HG12	1.83	0.59
1:1A:256:ASN:ND2	1:1A:350:LYS:HB2	2.18	0.59
2:1H:318:MET:HB2	2:1H:376:CYS:HB3	1.84	0.59
1:1K:50:TYR:CE2	1:1K:241:ARG:HD3	2.38	0.59
1:2S:77:ARG:HH12	38:8B:220:VAL:N	2.00	0.59
2:2V:287:SER:N	2:2V:290:GLU:OE2	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2X:191:THR:HA	2:2X:194:LEU:HB3	1.85	0.59
2:3B:417:GLU:HA	2:3B:420:GLU:HG2	1.85	0.59
2:3D:129:CYS:SG	2:3D:130:THR:N	2.75	0.59
2:3J:90:GLU:O	2:3J:121:ARG:NH1	2.36	0.59
6:4N:452:ARG:O	6:4N:456:GLU:HG2	2.01	0.59
13:5I:28:ASP:HA	13:5I:31:GLN:HE21	1.67	0.59
13:5J:28:ASP:HA	13:5J:31:GLN:HE21	1.67	0.59
15:5O:68:VAL:O	15:5O:71:ARG:HG2	2.02	0.59
15:5O:226:ARG:NH1	15:5O:226:ARG:HB3	2.17	0.59
18:5Z:110:GLU:OE2	18:5Z:110:GLU:N	2.35	0.59
22:6M:278:GLN:HA	22:6M:281:LYS:HD3	1.84	0.59
27:7G:116:ASN:HB2	27:7G:119:THR:HG23	1.83	0.59
38:8A:91:GLN:CG	38:8A:102:PHE:HD1	2.15	0.59
2:2:282:TYR:HE1	24:6T:88:TRP:CH2	2.20	0.59
2:4:280:LYS:HG2	2:S7:89:PRO:HG2	1.84	0.59
1:9:41:ASP:OD1	26:7E:25:TYR:CE2	2.55	0.59
2:E7:364:PRO:HG2	22:6M:123:PRO:HB2	1.85	0.59
1:G2:404:ASP:HB2	1:G2:406:MET:SD	2.43	0.59
1:G6:252:LYS:HE2	1:G6:350:LYS:HE2	1.85	0.59
1:G8:166:THR:HG1	1:G8:199:CYS:HG	1.50	0.59
1:G8:286:VAL:HG23	1:G8:287:PRO:HD3	1.83	0.59
1:H2:97:ALA:HB3	1:H2:143:THR:HG22	1.84	0.59
2:J3:248:LEU:HD22	2:J3:354:GLY:HA2	1.84	0.59
2:K1:9:ILE:HG22	2:K1:146:GLY:HA2	1.85	0.59
2:M3:49:PHE:CD1	2:M3:49:PHE:C	2.76	0.59
1:M6:12:CYS:SG	1:M6:13:GLY:N	2.76	0.59
2:O1:392:ASP:OD2	2:O1:422:ARG:NH1	2.36	0.59
2:P7:26:LEU:HD23	2:P7:363:VAL:HG12	1.84	0.59
2:Q3:342:GLN:HG3	2:Q3:342:GLN:O	2.02	0.59
1:R2:309:ARG:H	1:R2:372:THR:HG22	1.68	0.59
2:R3:333:ALA:O	2:R3:337:THR:HG23	2.03	0.59
1:S8:405:GLU:HG2	13:5I:53:PHE:HZ	1.67	0.59
2:T7:51:THR:HG21	2:T7:243:ARG:HG2	1.84	0.59
1:U4:67:ASP:N	1:U4:67:ASP:OD1	2.35	0.59
2:U5:88:HIS:ND1	2:W1:283:HIS:HA	2.17	0.59
1:V6:68:LEU:HB3	1:V6:96:GLY:HA2	1.83	0.59
2:W3:4:VAL:HG12	2:W3:133:GLN:HB2	1.85	0.59
1:W4:49:VAL:HG11	1:W4:241:ARG:HG2	1.83	0.59
1:X4:8:GLN:HE22	1:X4:63:ALA:HB1	1.67	0.59
2:Y5:189:LEU:HD11	2:Y5:418:PHE:HE1	1.67	0.59
2:Z7:268:MET:HG3	2:Z7:380:ASN:HB2	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z9:12:ALA:HB2	41:0A:501:GTP:C8	2.38	0.59
2:0J:115:VAL:HG22	2:0J:119:LEU:HD23	1.85	0.59
2:0P:262:TYR:HB2	2:0P:265:ILE:HG22	1.84	0.59
1:0Q:337:ASN:HB2	1:0Q:340:TYR:HD2	1.67	0.59
1:1Q:220:PRO:HD2	2:1R:326:LYS:HD2	1.85	0.59
1:1W:334:GLN:NE2	1:1W:348:ASN:OD1	2.36	0.59
2:1X:387:ILE:HG12	2:1X:390:ARG:HH22	1.66	0.59
1:2M:345:ILE:O	1:2M:348:ASN:ND2	2.34	0.59
2:2V:306:ASP:HB3	2:2V:309:HIS:HD2	1.67	0.59
2:2X:244:PHE:HB2	2:2X:356:ASN:HD21	1.68	0.59
2:3B:53:PHE:HB3	2:3B:63:PRO:HA	1.84	0.59
1:3C:309:ARG:H	1:3C:372:THR:HG22	1.67	0.59
5:4L:282:ARG:O	5:4L:286:LEU:HG	2.02	0.59
5:4L:466:LEU:HD21	5:4M:139:LEU:CD2	2.32	0.59
14:5M:225:ARG:HH11	14:5M:225:ARG:HG2	1.68	0.59
18:5X:110:GLU:OE2	18:5X:110:GLU:N	2.35	0.59
21:6H:106:ARG:NH2	24:6X:81:THR:OG1	2.35	0.59
22:6P:136:ASN:HD22	22:6P:208:ARG:HH22	1.50	0.59
26:7D:58:ILE:CD1	26:7D:82:PRO:HB3	2.33	0.59
29:7J:390:LEU:CG	29:7J:391:PRO:HD3	2.33	0.59
38:8D:70:LYS:HD3	38:8D:71:HIS:N	2.18	0.59
2:4:364:PRO:HB2	26:7D:53:TYR:CD1	2.37	0.59
2:8:223:THR:HG21	26:7E:111:ASP:OD1	2.03	0.59
2:A2:280:LYS:HZ2	26:7F:64:PRO:HG2	1.68	0.59
1:B1:276:ARG:NH1	24:6V:210:VAL:HG21	2.18	0.59
2:E5:81:GLY:HA3	22:6L:116:TYR:HE2	1.67	0.59
1:H6:211:CYS:HA	1:H6:215:LEU:HB2	1.84	0.59
2:I5:90:GLU:HB2	2:K1:283:HIS:CE1	2.38	0.59
2:J3:156:ARG:HE	35:7T:112:ARG:NH2	2.01	0.59
2:L3:339:ARG:NH2	34:7S:217:ASP:OD1	2.36	0.59
1:M6:1:MET:HE2	37:7Y:116:MET:CB	2.33	0.59
2:Q5:129:CYS:SG	2:Q5:130:THR:N	2.75	0.59
1:R8:67:ASP:N	1:R8:67:ASP:OD1	2.35	0.59
1:S0:92:PHE:HE2	24:6Z:40:GLN:NE2	1.64	0.59
1:T6:14:ASN:HD22	1:T6:65:LEU:HD23	1.68	0.59
2:T7:175:PRO:O	2:T7:394:LYS:NZ	2.35	0.59
2:U3:287:SER:N	2:U3:290:GLU:OE2	2.35	0.59
1:U6:268:VAL:HG23	1:U6:368:ILE:HG13	1.83	0.59
1:V4:113:ILE:HA	1:V4:116:VAL:HG22	1.85	0.59
1:W6:113:ILE:HA	1:W6:116:VAL:HG12	1.85	0.59
2:W9:79:ARG:O	2:W9:84:ARG:HG2	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y8:260:PHE:HB3	1:Y8:263:LEU:HB2	1.84	0.59
2:Y9:11:GLN:HE22	2:Y9:74:VAL:HG11	1.68	0.59
1:Z6:8:GLN:HG2	1:Z6:17:GLY:HA3	1.84	0.59
1:0G:58:ARG:HD3	1:0W:280:GLN:HE22	1.67	0.59
2:0L:399:TYR:OH	2:0L:415:GLU:OE2	2.10	0.59
2:0N:381:SER:OG	2:0N:382:THR:N	2.35	0.59
1:0Q:68:LEU:HB3	1:0Q:96:GLY:HA2	1.85	0.59
1:1S:52:ASN:OD1	1:1S:62:ARG:NH2	2.35	0.59
1:2A:248:ALA:HA	1:2A:252:LYS:HD2	1.85	0.59
2:2D:96:LYS:HD2	1:2E:129:CYS:SG	2.42	0.59
1:2U:212:PHE:HZ	2:2V:326:LYS:HD3	1.68	0.59
1:3A:336:LYS:NZ	38:8C:54:THR:O	2.33	0.59
2:3D:236:SER:O	2:3D:243:ARG:NH2	2.35	0.59
2:3D:336:LYS:O	2:3D:339:ARG:NH2	2.35	0.59
1:3G:177:ASP:O	2:3H:352:LYS:HA	2.02	0.59
1:3I:177:ASP:O	2:3J:352:LYS:HA	2.03	0.59
1:3K:276:ARG:NH1	17:5T:216:GLU:HB3	2.17	0.59
2:3L:239:THR:HG23	2:3L:243:ARG:HE	1.68	0.59
1:3O:309:ARG:NH1	1:3O:339:SER:O	2.36	0.59
1:3S:49:VAL:HG11	1:3S:241:ARG:HG2	1.85	0.59
1:3S:94:GLN:HG3	1:3S:95:THR:HG23	1.84	0.59
15:5P:333:GLU:HG3	30:7K:106:LEU:CD2	2.32	0.59
18:5Y:110:GLU:OE2	18:5Y:110:GLU:N	2.35	0.59
18:6A:110:GLU:OE2	18:6A:110:GLU:N	2.35	0.59
18:6C:110:GLU:OE2	18:6C:110:GLU:N	2.35	0.59
18:6D:110:GLU:OE2	18:6D:110:GLU:N	2.35	0.59
22:6P:263:SER:O	22:6P:266:LYS:HG3	2.02	0.59
23:6R:69:GLN:OE1	23:6R:69:GLN:N	2.28	0.59
23:6S:15:ARG:HA	23:6S:18:ARG:HG3	1.85	0.59
24:6U:469:PHE:HB2	24:6U:483:PHE:O	2.03	0.59
29:7I:253:ASN:HB3	30:7K:341:ARG:NH2	2.17	0.59
34:7R:98:GLU:OE2	35:7T:47:ASN:ND2	2.30	0.59
2:8:283:HIS:HB3	2:T1:88:HIS:CD2	2.33	0.59
2:A2:423:GLU:OE2	4:4G:108:TYR:HE1	1.63	0.59
1:A5:281:TYR:HB3	1:T8:86:ARG:HG2	1.83	0.59
2:B2:59:GLY:HA3	24:6V:263:ARG:HH12	1.67	0.59
2:C9:206:ASN:ND2	41:C9:501:GTP:O2'	2.36	0.59
1:G2:391:ARG:CG	1:G2:391:ARG:NH1	2.64	0.59
2:G3:42:ILE:HG12	24:6W:470:ILE:CD1	2.30	0.59
2:H3:291:ILE:HA	2:H3:294:ALA:HB3	1.84	0.59
1:H4:392:LYS:HD2	1:H4:395:LEU:HD22	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H6:166:THR:OG1	1:H6:199:CYS:SG	2.59	0.59
2:H9:27:GLU:OE1	2:H9:243:ARG:NH1	2.32	0.59
2:H9:287:SER:N	2:H9:290:GLU:OE2	2.26	0.59
1:I4:2:ARG:HE	1:I4:240:LEU:HD22	1.68	0.59
2:J3:267:PHE:HB2	2:J3:384:ILE:HD12	1.85	0.59
2:L7:427:ALA:O	2:L7:430:LYS:HG3	2.02	0.59
1:M2:58:ARG:HG2	2:N9:282:TYR:HE1	1.67	0.59
1:O2:208:TYR:CE1	1:O2:225:LEU:HD11	2.37	0.59
1:O4:208:TYR:HB3	2:O5:326:LYS:HZ3	1.68	0.59
2:O7:399:TYR:O	2:O7:402:ARG:NH1	2.35	0.59
1:Q8:162:ARG:HA	1:Q8:251:ARG:NH2	2.15	0.59
2:Q9:287:SER:N	2:Q9:290:GLU:OE2	2.35	0.59
1:R4:2:ARG:HE	1:R4:240:LEU:HD22	1.68	0.59
1:S8:334:GLN:HE22	1:S8:348:ASN:H	1.49	0.59
1:T6:384:GLN:HE21	13:5K:5:TYR:HE2	1.51	0.59
2:T7:203:MET:HB2	2:T7:303:VAL:HG21	1.85	0.59
1:U6:190:HIS:HD2	1:U6:414:ASN:HB2	1.68	0.59
1:V6:287:PRO:HA	1:V6:290:THR:HG22	1.84	0.59
1:V8:140:GLY:O	1:V8:184:ASN:ND2	2.36	0.59
2:X5:52:PHE:CE2	2:X5:243:ARG:HD3	2.38	0.59
2:X7:353:CYS:SG	2:X7:354:GLY:N	2.76	0.59
2:Y5:213:CYS:HA	2:Y5:217:LEU:HD13	1.85	0.59
2:Y9:111:GLY:HA2	2:Y9:114:ILE:HG22	1.85	0.59
1:Z2:3:GLU:HB2	1:Z2:130:LEU:HA	1.83	0.59
1:Z4:190:HIS:NE2	1:Z4:414:ASN:OD1	2.35	0.59
2:Z9:388:PHE:HB3	2:Z9:425:LEU:HD11	1.85	0.59
1:0A:86:ARG:HG2	1:0A:88:ASP:H	1.67	0.59
1:0I:139:LEU:HG	1:0I:168:SER:HB2	1.85	0.59
2:0L:244:PHE:HB2	2:0L:356:ASN:HD21	1.67	0.59
1:1U:139:LEU:HD12	1:1U:170:VAL:HG22	1.84	0.59
2:2B:88:HIS:HB3	2:2R:283:HIS:ND1	2.18	0.59
1:2I:270:PHE:HD2	1:2I:273:LEU:HD21	1.67	0.59
1:2M:121:ARG:HH12	38:8D:100:SER:H	1.49	0.59
2:2P:278:ALA:HA	2:2P:369:ALA:HB2	1.83	0.59
2:2R:88:HIS:ND1	2:3H:283:HIS:HA	2.18	0.59
1:2Y:320:ARG:HH22	38:8C:201:LEU:HB3	1.67	0.59
2:2Z:98:ASP:OD1	2:2Z:99:ALA:N	2.34	0.59
2:3F:98:ASP:OD1	2:3F:99:ALA:N	2.36	0.59
6:4O:386:PHE:HB3	6:4O:387:ARG:HH21	1.68	0.59
8:4W:259:GLN:O	8:4W:263:THR:HG23	2.03	0.59
9:4Z:37:SER:OG	9:4Z:38:GLN:OE1	2.20	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:4Z:375:ILE:HG23	9:4Z:379:LYS:HE2	1.84	0.59
10:5B:128:LEU:O	10:5B:132:THR:HG23	2.03	0.59
14:5M:221:ILE:HD13	14:5M:228:PHE:HA	1.84	0.59
15:5O:333:GLU:HB3	30:7K:241:LYS:HZ1	1.67	0.59
18:6B:110:GLU:OE2	18:6B:110:GLU:N	2.35	0.59
23:6R:33:HIS:CE1	23:6R:51:THR:O	2.56	0.59
24:6W:338:LEU:HB3	24:6W:341:LYS:HZ1	1.68	0.59
24:6X:525:VAL:HB	24:6X:530:PHE:HE2	1.68	0.59
25:7C:8:VAL:O	25:7C:12:VAL:HG23	2.03	0.59
34:7S:260:ARG:O	34:7S:264:GLU:HG2	2.03	0.59
38:8C:44:ARG:HB2	38:8C:47:PHE:CD2	2.38	0.59
38:8C:73:TRP:HD1	38:8C:73:TRP:H	1.51	0.59
1:9:280:GLN:OE1	1:T2:58:ARG:NH2	2.36	0.59
1:A3:41:ASP:HA	26:7F:25:TYR:HE2	1.67	0.59
2:C9:373:ARG:HH22	24:6V:255:HIS:CD2	2.18	0.59
1:H6:237:THR:HG23	1:H6:240:LEU:HD13	1.84	0.59
1:H8:309:ARG:NH1	1:H8:339:SER:O	2.36	0.59
2:L1:66:ILE:HD12	2:L1:68:LEU:HD23	1.85	0.59
2:L5:183:GLU:HG3	2:L5:184:PRO:HD3	1.85	0.59
1:M4:67:ASP:OD2	1:M4:72:THR:OG1	2.21	0.59
1:M6:37:HIS:CE1	15:5P:295:ASN:HD22	2.19	0.59
1:M6:382:SER:HB3	1:M6:415:MET:HG2	1.84	0.59
2:N7:340:THR:HG21	32:7O:15:VAL:HG12	1.85	0.59
1:O2:204:ASN:HD21	39:O2:502:GDP:HN22	1.51	0.59
2:O3:183:GLU:HG3	2:O3:184:PRO:HD3	1.83	0.59
1:O6:391:ARG:HG3	2:O7:346:TRP:CG	2.37	0.59
1:P4:172:SER:HB3	1:P4:175:VAL:HG22	1.85	0.59
2:Q5:240:ALA:HB1	2:Q5:356:ASN:HD22	1.68	0.59
1:R2:172:SER:OG	1:R2:380:ARG:NH2	2.36	0.59
1:R6:219:THR:HB	2:R7:324:VAL:HG11	1.85	0.59
2:S1:9:ILE:HG22	2:S1:146:GLY:HA2	1.85	0.59
2:T7:379:SER:OG	2:T7:380:ASN:N	2.36	0.59
2:U9:246:GLY:H	2:U9:249:ASN:HD21	1.49	0.59
2:V7:90:GLU:O	2:V7:121:ARG:NH1	2.33	0.59
1:X6:31:ASP:OD2	1:X6:33:THR:OG1	2.18	0.59
1:0C:99:ASN:HB3	1:0C:180:VAL:HG11	1.84	0.59
1:0I:5:VAL:HG23	1:0I:62:ARG:HG2	1.85	0.59
1:0K:393:ALA:O	1:0K:395:LEU:N	2.36	0.59
2:0L:274:PRO:HB2	2:0L:276:ILE:HG12	1.85	0.59
1:1U:58:ARG:HG2	1:2K:280:GLN:HE22	1.67	0.59
1:1U:273:LEU:H	1:1U:292:GLN:HE22	1.48	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1U:335:ASN:O	1:1U:338:SER:OG	2.21	0.59
1:1W:272:PRO:HB2	1:1W:282:ARG:HH12	1.68	0.59
1:2G:172:SER:HB2	1:2G:380:ARG:HH21	1.67	0.59
2:2H:53:PHE:HB3	2:2H:61:HIS:HB3	1.84	0.59
2:3B:399:TYR:OH	2:3B:415:GLU:OE2	2.19	0.59
2:3F:88:HIS:HB2	2:3F:91:GLN:NE2	2.17	0.59
2:3H:358:GLN:NE2	2:3H:359:PRO:O	2.35	0.59
1:3I:317:PHE:HB3	1:3I:321:MET:HE1	1.84	0.59
12:5F:44:ILE:HD11	12:5F:50:ALA:HB2	1.85	0.59
12:5F:47:GLN:N	12:5F:48:PRO:HD2	2.17	0.59
15:5P:54:GLU:OE1	15:5P:54:GLU:HA	2.03	0.59
17:5V:222:ILE:O	17:5V:226:ILE:HG12	2.03	0.59
22:6P:269:GLU:HB2	22:6P:272:ARG:HH21	1.68	0.59
23:6Q:15:ARG:HA	23:6Q:18:ARG:HG3	1.85	0.59
24:6Y:112:GLU:OE1	24:6Y:210:VAL:HG22	2.03	0.59
24:7A:212:VAL:O	24:7A:216:THR:HG23	2.02	0.59
26:7D:79:GLN:NE2	26:7D:108:SER:O	2.35	0.59
26:7E:79:GLN:NE2	26:7E:108:SER:O	2.35	0.59
38:8A:92:GLU:O	38:8A:92:GLU:HG3	2.03	0.59
1:A3:228:LEU:HD21	26:7F:136:PHE:CZ	2.37	0.58
2:G3:209:ILE:HD13	2:G3:231:ILE:HD11	1.85	0.58
2:G7:217:LEU:HD21	2:G7:368:LEU:HD23	1.84	0.58
2:H5:88:HIS:CE1	2:J1:283:HIS:HA	2.38	0.58
1:H6:334:GLN:HE22	1:H6:348:ASN:H	1.51	0.58
1:I2:391:ARG:HB2	2:I3:346:TRP:HE1	1.68	0.58
1:J2:190:HIS:CD2	1:J2:411:ALA:HA	2.38	0.58
2:N7:156:ARG:HA	2:N7:159:VAL:HG12	1.85	0.58
2:N7:287:SER:N	2:N7:290:GLU:OE2	2.23	0.58
1:P8:238:CYS:SG	1:P8:318:ARG:NE	2.75	0.58
2:R1:51:THR:HG21	2:R1:243:ARG:HG2	1.84	0.58
1:R2:7:ILE:HB	1:R2:135:VAL:HG12	1.85	0.58
1:S4:11:GLN:HE22	2:S5:249:ASN:H	1.50	0.58
2:S5:189:LEU:HD11	2:S5:418:PHE:HE1	1.67	0.58
2:S9:88:HIS:CD2	2:S9:90:GLU:H	2.17	0.58
1:U4:51:PHE:O	1:U4:62:ARG:NH2	2.35	0.58
1:U6:166:THR:OG1	1:U6:199:CYS:SG	2.61	0.58
1:V6:58:ARG:HG2	1:X2:280:GLN:HE22	1.67	0.58
2:V9:88:HIS:CD2	2:X5:283:HIS:HB2	2.38	0.58
1:W2:375:GLN:HB2	1:W2:419:VAL:HG13	1.84	0.58
1:W6:49:VAL:HG11	1:W6:241:ARG:HG2	1.84	0.58
2:W7:384:ILE:HA	2:W7:387:ILE:HD12	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W9:76:ASP:HA	2:W9:79:ARG:HB2	1.85	0.58
1:X4:273:LEU:H	1:X4:292:GLN:HE22	1.51	0.58
1:Y0:412:GLU:O	1:Y0:416:ASN:ND2	2.36	0.58
1:Y8:246:LEU:O	1:Y8:352:SER:OG	2.21	0.58
2:Z5:12:ALA:HB2	41:Z6:501:GTP:C8	2.37	0.58
2:0H:336:LYS:O	2:0H:339:ARG:NH2	2.30	0.58
1:0M:31:ASP:OD2	1:0M:33:THR:OG1	2.21	0.58
1:0S:186:THR:HG22	1:0S:411:ALA:HB1	1.85	0.58
1:0Y:204:ASN:OD1	39:0Y:502:GDP:O2'	2.21	0.58
1:1A:211:CYS:HA	1:1A:215:LEU:HB2	1.84	0.58
2:1V:56:THR:HA	2:2L:285:GLN:HB2	1.84	0.58
2:2H:284:GLU:OE1	2:2H:284:GLU:HA	2.03	0.58
1:3M:211:CYS:SG	1:3M:220:PRO:HB3	2.43	0.58
2:3P:236:SER:OG	2:3P:243:ARG:NH2	2.35	0.58
1:3S:362:LYS:CE	38:8D:166:GLU:HG2	2.25	0.58
12:5F:56:THR:HG23	12:5F:57:THR:H	1.67	0.58
15:5P:60:LEU:H	15:5P:60:LEU:HD23	1.67	0.58
16:5Q:88:THR:HG23	16:5Q:89:HIS:CD2	2.36	0.58
17:5V:207:VAL:HG22	17:5V:211:ARG:HH12	1.67	0.58
19:6E:17:VAL:HG11	19:6E:28:ARG:HG2	1.85	0.58
22:6I:166:ILE:HD11	22:6I:226:LEU:HD11	1.85	0.58
23:6Q:69:GLN:OE1	23:6Q:69:GLN:N	2.28	0.58
24:6Y:35:TYR:CD1	24:6Y:42:GLU:HG2	2.38	0.58
1:E6:204:ASN:HD21	39:E6:502:GDP:HN22	1.51	0.58
1:H2:177:ASP:O	2:H3:352:LYS:HA	2.03	0.58
2:H5:287:SER:N	2:H5:290:GLU:OE2	2.34	0.58
1:H6:51:PHE:O	1:H6:62:ARG:NH2	2.36	0.58
2:J1:119:LEU:HD11	2:J1:156:ARG:HD3	1.85	0.58
1:J2:350:LYS:NZ	1:J2:351:SER:O	2.36	0.58
1:J4:248:ALA:HA	1:J4:252:LYS:HD2	1.84	0.58
2:M1:90:GLU:HG3	2:M1:121:ARG:HH12	1.68	0.58
2:M5:370:LYS:NZ	30:7K:142:SER:O	2.28	0.58
2:M9:109:THR:OG1	2:M9:411:GLU:OE2	2.16	0.58
2:O3:405:VAL:HG13	2:O3:418:PHE:HE2	1.68	0.58
2:O5:18:ASN:HD21	32:7P:116:TYR:HE1	1.51	0.58
2:O5:399:TYR:OH	2:O5:415:GLU:OE2	2.13	0.58
1:O8:52:ASN:OD1	1:O8:62:ARG:NH2	2.36	0.58
2:Q3:286:LEU:O	2:Q3:373:ARG:NH1	2.36	0.58
1:R0:173:PRO:HB3	1:R0:384:GLN:HE22	1.67	0.58
2:R3:7:ILE:HD12	2:R3:153:LEU:HD21	1.86	0.58
2:S1:333:ALA:O	2:S1:337:THR:HG23	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T2:273:LEU:H	1:T2:292:GLN:HE22	1.52	0.58
1:V2:285:THR:HG23	1:V2:288:GLU:H	1.68	0.58
1:W4:138:SER:OG	1:W4:139:LEU:N	2.37	0.58
1:X0:140:GLY:O	1:X0:184:ASN:ND2	2.37	0.58
1:X4:397:TRP:HE1	2:X5:260:VAL:HB	1.68	0.58
2:Y5:279:GLU:HG2	2:Y5:280:LYS:HD3	1.83	0.58
1:Y6:201:VAL:HG12	1:Y6:266:PHE:O	2.03	0.58
1:Y8:207:LEU:HD23	1:Y8:225:LEU:HB3	1.85	0.58
2:Z5:90:GLU:HB2	2:Z5:121:ARG:NH1	2.19	0.58
2:Z7:181:VAL:HG12	1:Z8:347:ASN:O	2.03	0.58
1:Z8:412:GLU:HG2	1:Z8:415:MET:HE2	1.85	0.58
2:0J:55:GLU:O	2:0Z:285:GLN:NE2	2.36	0.58
1:0M:67:ASP:OD2	1:0M:72:THR:OG1	2.17	0.58
1:0O:113:ILE:HA	1:0O:116:VAL:HG22	1.84	0.58
1:0Q:117:LEU:HD13	1:0Q:121:ARG:HH22	1.67	0.58
2:1H:278:ALA:HA	2:1H:369:ALA:HB2	1.85	0.58
2:1H:298:PRO:HA	2:1H:301:MET:HG3	1.84	0.58
2:1H:322:ASP:HB3	2:1H:373:ARG:HH21	1.68	0.58
2:1N:336:LYS:O	2:1N:339:ARG:NH2	2.35	0.58
2:1R:57:GLY:HA3	10:5B:156:TYR:OH	2.03	0.58
2:2D:109:THR:HG23	2:2D:110:ILE:HG12	1.84	0.58
1:2M:253:LEU:HD11	1:2M:316:LEU:HD21	1.85	0.58
1:2Y:177:ASP:O	2:2Z:352:LYS:HA	2.03	0.58
1:3I:77:ARG:NE	3:3Z:19:LEU:HA	2.18	0.58
2:3L:182:VAL:HG12	2:3L:185:TYR:HB2	1.83	0.58
1:3M:391:ARG:HH21	2:3N:262:TYR:HE2	1.50	0.58
8:4X:112:GLU:O	8:4X:116:ASN:ND2	2.36	0.58
10:5B:150:MET:O	10:5B:154:MET:HG2	2.03	0.58
15:5O:111:ASN:ND2	15:5O:115:GLN:OE1	2.35	0.58
15:5P:21:LEU:HD23	15:5P:21:LEU:C	2.22	0.58
18:5X:101:LYS:O	24:6U:178:ASN:ND2	2.32	0.58
24:6V:11:LEU:CB	24:6V:12:PRO:HD2	2.31	0.58
38:8A:196:MET:CE	38:8A:201:LEU:HD21	2.32	0.58
2:G1:43:GLY:O	24:6V:447:ARG:NH1	2.36	0.58
1:G4:219:THR:N	24:6X:418:ASP:OD1	2.35	0.58
1:G4:388:MET:HG3	1:G4:393:ALA:HB3	1.86	0.58
2:I7:392:ASP:OD2	2:I7:422:ARG:NH1	2.35	0.58
1:J4:139:LEU:HD12	1:J4:170:VAL:HG12	1.85	0.58
1:J6:2:ARG:HB3	1:J6:131:GLN:HB2	1.83	0.58
1:K0:211:CYS:HA	1:K0:215:LEU:HB2	1.86	0.58
2:K1:84:ARG:HH12	28:7X:407:LYS:HG3	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L0:39:ASP:OD1	1:L0:40:SER:N	2.34	0.58
2:M9:90:GLU:HB2	1:O6:281:TYR:CE2	2.38	0.58
1:N0:334:GLN:HE22	1:N0:348:ASN:H	1.51	0.58
2:O3:56:THR:HG21	2:Q1:283:HIS:O	2.03	0.58
2:O7:189:LEU:HD11	2:O7:418:PHE:HE1	1.68	0.58
1:P8:272:PRO:HB2	1:P8:282:ARG:HH12	1.66	0.58
1:Q0:193:VAL:HG23	1:Q0:194:GLU:HG2	1.84	0.58
1:Q8:177:ASP:O	2:Q9:352:LYS:HA	2.02	0.58
2:R1:102:ASN:HB3	2:R1:105:ARG:HB3	1.85	0.58
2:R1:196:GLU:HA	17:5S:84:ARG:HD2	1.84	0.58
2:R3:151:SER:O	2:R3:155:GLU:HG3	2.03	0.58
1:S8:280:GLN:OE1	1:S8:280:GLN:N	2.36	0.58
1:T6:337:ASN:HD21	17:5U:48:THR:H	1.50	0.58
2:U3:73:THR:O	2:U3:77:GLU:HG2	2.02	0.58
1:W0:30:ILE:HG22	1:W0:36:TYR:HA	1.84	0.58
2:W1:384:ILE:HA	2:W1:387:ILE:HD12	1.84	0.58
1:X0:359:LYS:HG3	8:4X:96:VAL:CG2	2.33	0.58
1:X8:192:LEU:HD22	1:X8:196:ALA:HB2	1.85	0.58
2:Y5:282:TYR:O	8:4W:424:LYS:NZ	2.31	0.58
2:Z3:69:ASP:OD1	2:Z3:70:LEU:N	2.36	0.58
1:Z6:274:THR:OG1	1:Z6:282:ARG:NH1	2.35	0.58
2:0B:109:THR:OG1	2:0B:411:GLU:OE2	2.17	0.58
2:0F:292:THR:HG1	2:0F:319:TYR:HH	1.52	0.58
2:0J:5:ILE:HD11	2:0J:135:PHE:CE1	2.38	0.58
1:0Q:33:THR:O	1:0Q:58:ARG:NH2	2.36	0.58
2:0V:63:PRO:HB2	2:0V:65:CYS:SG	2.43	0.58
2:0V:238:LEU:HA	2:0V:318:MET:SD	2.43	0.58
2:0Z:73:THR:HA	1:1A:46:ARG:HH21	1.68	0.58
2:1P:381:SER:OG	2:1P:382:THR:N	2.37	0.58
2:1X:9:ILE:HG22	2:1X:146:GLY:HA2	1.86	0.58
2:2J:109:THR:OG1	2:2J:411:GLU:OE2	2.20	0.58
2:2L:289:ALA:O	2:2L:293:ASN:ND2	2.37	0.58
2:2R:392:ASP:OD2	2:2R:422:ARG:NH1	2.35	0.58
1:3C:140:GLY:O	1:3C:184:ASN:ND2	2.35	0.58
2:3L:72:PRO:HD2	1:3M:2:ARG:HH12	1.67	0.58
2:3P:399:TYR:O	2:3P:402:ARG:NH1	2.36	0.58
13:5H:18:ARG:HB3	24:6T:38:GLY:HA2	1.86	0.58
13:5H:28:ASP:HA	13:5H:31:GLN:NE2	2.19	0.58
13:5J:28:ASP:HA	13:5J:31:GLN:NE2	2.19	0.58
13:5K:28:ASP:HA	13:5K:31:GLN:NE2	2.19	0.58
15:5O:34:GLU:OE2	15:5O:49:ARG:HG2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:5O:270:LEU:HD12	15:5O:307:ILE:HD11	1.85	0.58
19:6E:98:THR:O	19:6E:98:THR:HG23	2.02	0.58
22:6N:70:ASN:O	22:6N:73:ASN:ND2	2.37	0.58
22:6O:45:PRO:HB3	22:6O:51:ILE:HG23	1.86	0.58
23:6S:69:GLN:OE1	23:6S:69:GLN:N	2.28	0.58
24:6Y:242:PHE:O	24:6Y:246:VAL:HG23	2.04	0.58
26:7F:79:GLN:NE2	26:7F:108:SER:O	2.35	0.58
36:7V:32:LYS:CD	36:7V:72:LEU:H	2.07	0.58
38:8C:83:ARG:HD3	38:8C:83:ARG:N	2.17	0.58
1:F2:11:GLN:N	39:F2:501:GDP:O1B	2.28	0.58
2:I5:164:LYS:O	2:I5:166:LYS:NZ	2.35	0.58
1:J2:71:GLY:CA	16:5Q:175:LEU:HD21	2.33	0.58
2:J5:417:GLU:HA	2:J5:420:GLU:HG2	1.85	0.58
2:K5:223:THR:HG23	2:K5:225:THR:H	1.68	0.58
1:M0:211:CYS:HA	1:M0:215:LEU:HB2	1.85	0.58
1:M2:86:ARG:HB3	2:N9:283:HIS:CE1	2.38	0.58
2:M3:109:THR:OG1	2:M3:411:GLU:OE2	2.19	0.58
2:N1:76:ASP:OD1	1:N2:46:ARG:NH2	2.35	0.58
2:N3:381:SER:OG	2:N3:382:THR:N	2.37	0.58
2:N9:259:LEU:HD11	2:N9:316:CYS:HB2	1.85	0.58
2:P9:27:GLU:OE1	2:P9:243:ARG:NH1	2.36	0.58
2:P9:278:ALA:HA	2:P9:369:ALA:HB2	1.85	0.58
1:Q0:125:GLU:OE2	1:R6:291:GLN:NE2	2.36	0.58
2:Q1:53:PHE:HB3	2:Q1:61:HIS:HB3	1.84	0.58
1:Q6:52:ASN:OD1	1:Q6:62:ARG:NH2	2.37	0.58
1:S0:5:VAL:HG23	1:S0:62:ARG:HG2	1.84	0.58
1:S4:113:ILE:HG13	1:S4:150:LEU:HD22	1.85	0.58
2:V3:284:GLU:O	2:V3:285:GLN:NE2	2.36	0.58
1:V6:192:LEU:HD22	1:V6:196:ALA:HB2	1.85	0.58
2:V7:392:ASP:OD2	2:V7:422:ARG:NH1	2.35	0.58
1:W2:138:SER:OG	1:W2:139:LEU:N	2.36	0.58
2:W7:398:MET:SD	1:W8:346:PRO:HD2	2.43	0.58
1:X0:345:ILE:O	1:X0:348:ASN:ND2	2.37	0.58
2:X3:9:ILE:HG12	2:X3:68:LEU:HD21	1.85	0.58
2:X5:236:SER:O	2:X5:243:ARG:NH2	2.35	0.58
1:Y4:276:ARG:HD3	8:4W:405:GLU:OE2	2.03	0.58
2:Z5:88:HIS:ND1	2:Z5:90:GLU:HG2	2.19	0.58
1:Z6:4:ILE:HG22	1:Z6:49:VAL:HG22	1.84	0.58
2:0J:5:ILE:HD11	2:0J:135:PHE:HE1	1.69	0.58
2:0L:33:ASP:O	2:0L:60:LYS:NZ	2.36	0.58
1:0S:68:LEU:HD13	1:0S:93:GLY:HA3	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0S:209:ASP:HA	1:0S:213:ARG:NH1	2.17	0.58
1:0U:273:LEU:H	1:0U:292:GLN:HE22	1.49	0.58
2:1H:305:CYS:HB2	2:1H:387:ILE:HD11	1.86	0.58
1:1K:180:VAL:HG23	1:1K:184:ASN:HD21	1.66	0.58
1:1Q:248:ALA:HA	1:1Q:252:LYS:HD2	1.84	0.58
2:2H:205:ASP:OD1	2:2H:303:VAL:HA	2.04	0.58
2:2H:352:LYS:NZ	2:2H:353:CYS:O	2.35	0.58
2:2N:203:MET:HE3	2:2N:267:PHE:HD1	1.67	0.58
1:2U:128:ASP:OD1	1:2U:129:CYS:N	2.35	0.58
2:2V:215:ARG:HB2	38:8B:66:TYR:HE1	1.68	0.58
1:2W:391:ARG:NH1	2:2X:438:GLU:OE1	2.36	0.58
1:2Y:237:THR:O	1:2Y:241:ARG:NE	2.37	0.58
1:3I:248:ALA:HA	1:3I:252:LYS:HD2	1.84	0.58
6:4O:62:ASP:O	6:4O:66:ARG:HG2	2.04	0.58
10:5A:356:ARG:HA	10:5A:359:ARG:HD2	1.85	0.58
13:5I:28:ASP:HA	13:5I:31:GLN:NE2	2.19	0.58
13:5K:82:PHE:CD1	13:5K:83:MET:HG2	2.38	0.58
14:5N:224:GLU:O	14:5N:224:GLU:HG2	2.02	0.58
22:6K:114:THR:HG23	22:6K:117:GLY:H	1.68	0.58
24:6X:96:LEU:HD22	24:6X:188:THR:HG22	1.85	0.58
28:7H:451:LYS:HG3	28:7H:452:ASN:H	1.68	0.58
35:7T:227:TRP:O	35:7T:231:THR:HG23	2.03	0.58
38:8A:213:GLU:HG2	38:8A:214:HIS:N	2.17	0.58
2:4:423:GLU:OE2	4:3Y:54:VAL:HG23	2.02	0.58
1:G2:276:ARG:HD3	24:6W:419:SER:HB2	1.84	0.58
1:G8:80:PRO:HB3	24:6Z:526:PHE:CE2	2.34	0.58
1:H2:97:ALA:HA	1:H2:103:LYS:HE3	1.83	0.58
2:J1:63:PRO:HB2	2:J1:65:CYS:SG	2.43	0.58
2:J1:287:SER:N	2:J1:290:GLU:OE2	2.37	0.58
2:K3:167:LEU:HD21	2:K3:252:ILE:HD12	1.85	0.58
1:L2:257:LEU:HD21	1:L2:314:SER:HB3	1.85	0.58
1:L6:183:TYR:HE2	1:L6:394:PHE:HB2	1.68	0.58
2:L7:279:GLU:OE1	6:4P:209:LYS:NZ	2.36	0.58
2:M9:286:LEU:O	30:7K:27:ILE:HG22	2.04	0.58
2:N5:392:ASP:OD2	2:N5:422:ARG:NH1	2.37	0.58
2:N9:119:LEU:HD23	2:N9:122:ILE:CD1	2.31	0.58
1:O6:393:ALA:O	1:O6:395:LEU:N	2.37	0.58
1:P4:374:ILE:O	1:P4:377:MET:HG3	2.03	0.58
1:Q2:107:THR:OG1	1:Q2:108:GLU:OE1	2.15	0.58
1:S0:91:VAL:CG1	1:S0:116:VAL:HG12	2.24	0.58
1:T0:201:VAL:HG21	1:T0:374:ILE:HD11	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T0:213:ARG:HH22	13:5I:117:ASN:ND2	2.01	0.58
2:T3:286:LEU:O	2:T3:373:ARG:NH1	2.37	0.58
1:T6:177:ASP:O	2:T7:352:LYS:HA	2.03	0.58
1:T8:45:GLU:HG2	1:T8:46:ARG:HG2	1.84	0.58
2:U1:90:GLU:HB3	2:V7:283:HIS:CE1	2.37	0.58
1:V2:113:ILE:HA	1:V2:116:VAL:HG22	1.84	0.58
1:V8:22:GLU:HG2	1:V8:81:TYR:HB2	1.85	0.58
1:X4:391:ARG:HD3	2:X5:346:TRP:CE2	2.38	0.58
2:X5:399:TYR:O	2:X5:402:ARG:NH1	2.36	0.58
1:X6:172:SER:HB2	1:X6:205:GLU:OE1	2.02	0.58
2:X7:88:HIS:CE1	2:Z3:283:HIS:HA	2.38	0.58
1:Y2:113:ILE:HA	1:Y2:116:VAL:HG12	1.84	0.58
1:Y4:178:THR:OG1	2:Y5:258:ASN:ND2	2.36	0.58
2:Z1:210:TYR:HE1	2:Z1:227:LEU:HD21	1.68	0.58
2:0B:12:ALA:HB2	41:0C:501:GTP:C8	2.38	0.58
2:0B:157:LEU:HD13	2:0B:166:LYS:HD3	1.84	0.58
2:0B:427:ALA:HA	2:0B:430:LYS:HD3	1.86	0.58
1:0M:3:GLU:O	1:0M:131:GLN:N	2.34	0.58
1:0O:391:ARG:O	1:0O:391:ARG:HG3	2.03	0.58
1:1G:301:CYS:SG	1:1G:302:ALA:N	2.77	0.58
2:1L:88:HIS:HB3	2:1L:91:GLN:HG3	1.86	0.58
1:1O:3:GLU:HB2	1:1O:130:LEU:HA	1.84	0.58
1:1U:107:THR:OG1	1:1U:401:GLU:OE2	2.21	0.58
2:1Z:113:GLU:OE1	2:1Z:113:GLU:N	2.37	0.58
2:2D:264:ARG:NH2	2:2D:431:ASP:OD2	2.37	0.58
2:2D:284:GLU:HA	2:2D:284:GLU:OE1	2.04	0.58
2:2L:66:ILE:HD11	2:2L:93:ILE:HD12	1.86	0.58
1:2U:334:GLN:HE22	1:2U:348:ASN:H	1.49	0.58
1:3M:139:LEU:HD12	1:3M:170:VAL:HG12	1.84	0.58
1:3O:183:TYR:HE2	1:3O:394:PHE:HB2	1.67	0.58
1:3Q:138:SER:OG	1:3Q:139:LEU:N	2.37	0.58
9:4Z:251:ALA:HA	9:4Z:254:LYS:HD2	1.86	0.58
10:5D:172:GLN:O	10:5D:176:GLU:HG2	2.03	0.58
11:5E:46:VAL:HG23	11:5E:88:PHE:HD2	1.67	0.58
17:5V:177:ASP:N	17:5V:177:ASP:OD2	2.36	0.58
20:6F:238:LEU:HD23	20:6F:240:ALA:H	1.67	0.58
21:6H:88:ALA:O	21:6H:92:HIS:HB2	2.03	0.58
24:6U:277:CYS:HA	24:6U:368:LEU:HA	1.84	0.58
24:6U:469:PHE:HA	24:6U:485:PRO:CD	2.32	0.58
24:6X:152:ARG:HD3	24:6X:160:PHE:CG	2.39	0.58
2:4:280:LYS:HG2	2:S7:89:PRO:CG	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:340:TYR:HD1	3:4H:104:PRO:HD3	1.67	0.58
1:G8:31:ASP:OD2	1:G8:33:THR:OG1	2.20	0.58
1:G8:140:GLY:O	1:G8:184:ASN:ND2	2.35	0.58
2:G9:219:ILE:HG23	22:6P:175:ALA:HB1	1.84	0.58
2:H7:72:PRO:HD2	1:H8:2:ARG:HH12	1.68	0.58
2:I5:195:LEU:HD11	2:I5:264:ARG:HH11	1.68	0.58
2:I9:22:GLU:O	2:I9:26:LEU:HG	2.03	0.58
2:J1:90:GLU:O	2:J1:121:ARG:NH1	2.32	0.58
2:J5:305:CYS:HB3	2:J5:387:ILE:HD11	1.86	0.58
1:L2:113:ILE:HA	1:L2:116:VAL:HG22	1.85	0.58
2:M7:89:PRO:HG2	19:6E:25:VAL:HG12	1.84	0.58
2:M7:109:THR:OG1	2:M7:411:GLU:OE2	2.18	0.58
2:N3:288:VAL:O	2:N3:292:THR:HG23	2.04	0.58
2:P7:286:LEU:O	2:P7:373:ARG:NH1	2.36	0.58
1:R0:52:ASN:OD1	1:R0:62:ARG:NH2	2.36	0.58
1:R4:3:GLU:HG3	1:R4:127:CYS:HB2	1.85	0.58
1:R4:335:ASN:O	1:R4:338:SER:OG	2.21	0.58
1:R8:391:ARG:HD3	2:R9:346:TRP:CE2	2.39	0.58
1:S4:5:VAL:HG12	1:S4:133:PHE:HD1	1.68	0.58
2:S7:414:GLU:CD	2:S7:414:GLU:H	2.06	0.58
2:T1:293:ASN:OD1	2:T1:338:LYS:NZ	2.35	0.58
2:T5:311:LYS:HE3	2:T5:344:VAL:HA	1.85	0.58
1:T8:190:HIS:HE2	1:T8:410:GLU:HG3	1.68	0.58
2:V9:286:LEU:O	2:V9:373:ARG:NH1	2.37	0.58
2:W1:189:LEU:HD11	2:W1:418:PHE:HE1	1.67	0.58
2:Y1:133:GLN:HB3	2:Y1:252:ILE:HG21	1.86	0.58
2:Y9:178:SER:HB3	1:Z0:347:ASN:HD22	1.69	0.58
1:Z4:210:ILE:O	1:Z4:214:THR:OG1	2.16	0.58
1:Z6:83:GLN:O	1:0M:281:TYR:OH	2.11	0.58
1:0C:342:VAL:HG12	1:0C:348:ASN:HD21	1.69	0.58
2:0F:244:PHE:HB2	2:0F:356:ASN:HD21	1.69	0.58
2:0N:83:TYR:HB3	2:0N:86:LEU:HB3	1.85	0.58
2:0N:191:THR:HA	2:0N:194:LEU:HB3	1.84	0.58
1:0U:392:LYS:HG3	1:0U:395:LEU:CD2	2.34	0.58
2:1L:213:CYS:HA	2:1L:217:LEU:HB2	1.86	0.58
2:1N:183:GLU:HG3	2:1N:184:PRO:HD3	1.84	0.58
1:1U:20:PHE:HB2	1:1U:233:MET:HE3	1.84	0.58
1:1U:248:ALA:CA	1:1U:252:LYS:HD3	2.27	0.58
2:1V:209:ILE:HA	2:1V:212:ILE:HD12	1.83	0.58
2:2B:72:PRO:HG3	1:2C:1:MET:HE2	1.85	0.58
2:2B:276:ILE:HG22	2:2B:281:ALA:HB2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2N:406:HIS:HA	2:2N:409:VAL:HG22	1.85	0.58
2:2P:336:LYS:O	2:2P:339:ARG:NH2	2.35	0.58
2:2Z:56:THR:HG23	2:2Z:60:LYS:HB3	1.85	0.58
2:2Z:236:SER:O	2:2Z:243:ARG:NH2	2.37	0.58
2:3B:265:ILE:HD13	2:3B:435:VAL:HG21	1.84	0.58
2:3D:90:GLU:O	2:3D:121:ARG:NH1	2.34	0.58
2:3D:384:ILE:HA	2:3D:387:ILE:HD12	1.84	0.58
1:3Q:272:PRO:HB2	1:3Q:282:ARG:HH12	1.68	0.58
2:3R:290:GLU:HA	2:3R:293:ASN:HD22	1.69	0.58
5:4L:290:GLN:O	28:7H:306:LEU:HD21	2.04	0.58
10:5C:336:ALA:O	10:5C:339:GLN:HG3	2.03	0.58
14:5L:507:LEU:HD11	14:5L:525:LEU:HD12	1.83	0.58
22:6M:204:PHE:HB2	22:6M:223:LEU:HD21	1.86	0.58
24:6X:354:ARG:HB2	24:6X:357:LEU:CD1	2.33	0.58
24:6X:460:HIS:HB2	24:6X:465:LEU:CD2	2.34	0.58
36:7W:32:LYS:CD	36:7W:72:LEU:H	2.07	0.58
1:1:306:ARG:CZ	3:3V:60:PRO:O	2.51	0.58
2:E1:206:ASN:OD1	41:E1:501:GTP:N2	2.31	0.58
2:G7:115:VAL:HG23	2:G7:153:LEU:HD23	1.86	0.58
1:I2:166:THR:OG1	1:I2:199:CYS:SG	2.58	0.58
2:I3:88:HIS:ND1	2:J9:283:HIS:O	2.36	0.58
1:I8:309:ARG:H	1:I8:372:THR:HG22	1.69	0.58
1:J2:71:GLY:HA2	16:5Q:175:LEU:HD11	1.85	0.58
1:J6:99:ASN:ND2	2:J7:254:GLU:OE1	2.36	0.58
1:K4:39:ASP:OD1	1:K4:40:SER:N	2.33	0.58
2:K5:88:HIS:ND1	2:M1:283:HIS:HA	2.18	0.58
2:M1:222:PRO:HD2	1:M2:324:LYS:HE3	1.86	0.58
2:M5:88:HIS:CD2	2:M5:89:PRO:CD	2.86	0.58
1:M6:248:ALA:HA	1:M6:252:LYS:HD2	1.86	0.58
1:N0:272:PRO:HB2	1:N0:282:ARG:HH22	1.69	0.58
1:N2:88:ASP:H	2:O9:283:HIS:CE1	2.21	0.58
2:N3:209:ILE:HG23	2:N3:230:LEU:HD21	1.85	0.58
2:N9:33:ASP:OD1	2:N9:35:GLN:NE2	2.37	0.58
1:P8:3:GLU:HB2	1:P8:130:LEU:HD23	1.86	0.58
2:Q5:278:ALA:HA	2:Q5:369:ALA:HB2	1.86	0.58
1:Q8:358:PRO:HG2	1:Q8:361:LEU:HB2	1.84	0.58
1:R0:274:THR:HG21	1:R0:282:ARG:HD2	1.85	0.58
2:R5:37:PRO:HA	11:5E:8:ARG:HH11	1.69	0.58
2:S1:88:HIS:CD2	2:S1:89:PRO:HD3	2.36	0.58
2:T1:386:GLU:OE2	2:T1:390:ARG:NH1	2.37	0.58
2:T3:217:LEU:HD21	2:T3:368:LEU:HD23	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T4:7:ILE:HB	1:T4:135:VAL:HG12	1.85	0.58
1:T6:222:PHE:HD2	2:T7:247:ALA:HB1	1.69	0.58
1:V8:137:HIS:ND1	1:V8:138:SER:O	2.35	0.58
1:Y0:123:GLU:O	1:Y0:126:SER:OG	2.18	0.58
1:Y2:309:ARG:NH1	1:Y2:341:PHE:O	2.35	0.58
1:0K:309:ARG:NH1	1:0K:339:SER:O	2.35	0.58
2:0L:5:ILE:HG22	2:0L:64:ARG:HB3	1.85	0.58
1:1C:77:ARG:HE	1:1C:90:PHE:HE2	1.50	0.58
2:1F:50:ASN:O	2:1F:64:ARG:NH2	2.36	0.58
2:1P:176:GLN:HE22	2:1P:304:LYS:HE2	1.69	0.58
1:1Q:404:ASP:HB3	1:1Q:406:MET:SD	2.44	0.58
2:1V:5:ILE:HD11	2:1V:135:PHE:HE1	1.69	0.58
2:1V:338:LYS:HG3	2:1V:340:THR:HG22	1.85	0.58
2:1X:289:ALA:O	2:1X:293:ASN:ND2	2.36	0.58
1:2A:67:ASP:OD2	1:2A:72:THR:OG1	2.09	0.58
2:2F:53:PHE:HB3	2:2F:61:HIS:HB3	1.86	0.58
2:2R:109:THR:OG1	2:2R:411:GLU:OE2	2.20	0.58
1:3A:77:ARG:NH1	38:8D:220:VAL:HA	2.19	0.58
1:3O:256:ASN:O	1:3O:312:THR:HG21	2.03	0.58
1:3O:285:THR:OG1	1:3O:287:PRO:HD2	2.04	0.58
6:4N:461:LYS:HD2	6:4N:465:GLU:OE2	2.03	0.58
8:4X:114:ARG:HA	8:4X:117:VAL:HG12	1.85	0.58
10:5C:283:GLU:HA	10:5C:286:LYS:HD2	1.85	0.58
13:5H:82:PHE:CD1	13:5H:83:MET:HG2	2.38	0.58
13:5I:82:PHE:CD1	13:5I:83:MET:HG2	2.38	0.58
13:5J:82:PHE:CD1	13:5J:83:MET:HG2	2.38	0.58
14:5N:385:CYS:HB2	14:5N:401:TRP:CZ3	2.39	0.58
15:5O:56:LYS:HE2	15:5O:56:LYS:N	2.10	0.58
15:5P:101:ASP:O	15:5P:104:LYS:NZ	2.35	0.58
15:5P:123:LEU:HD13	15:5P:161:MET:HB3	1.85	0.58
21:6G:37:ILE:CG2	21:6G:40:PHE:HB3	2.34	0.58
1:9:41:ASP:OD2	26:7E:23:THR:HG21	2.02	0.58
1:A3:276:ARG:HH21	26:7F:138:THR:HG23	1.69	0.58
2:G1:195:LEU:CD1	2:G1:428:LEU:HD21	2.34	0.58
2:G7:278:ALA:HB3	22:6O:215:GLY:HA2	1.86	0.58
2:I5:9:ILE:HG13	2:I5:139:ASN:HB3	1.84	0.58
2:J7:88:HIS:CD2	2:L3:283:HIS:HB3	2.38	0.58
1:K0:309:ARG:H	1:K0:372:THR:HG22	1.69	0.58
2:K5:27:GLU:OE1	2:K5:243:ARG:NH1	2.37	0.58
1:K8:379:LYS:HG3	1:K8:419:VAL:HG21	1.86	0.58
2:L7:340:THR:HG23	2:L7:341:ILE:HG12	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L9:417:GLU:HA	2:L9:420:GLU:HG2	1.86	0.58
1:M2:77:ARG:NH1	15:5O:44:ARG:HD3	2.19	0.58
2:M7:90:GLU:HG3	2:M7:121:ARG:HH12	1.68	0.58
1:N0:128:ASP:OD1	1:N0:129:CYS:N	2.37	0.58
2:N1:305:CYS:HB3	2:N1:387:ILE:HD11	1.84	0.58
2:N5:357:TYR:HB2	32:7O:87:ASP:OD2	2.04	0.58
1:O4:132:GLY:HA2	1:O4:162:ARG:HB3	1.85	0.58
2:O5:285:GLN:HG3	19:6E:13:LYS:HE3	1.86	0.58
1:P4:287:PRO:HA	1:P4:290:THR:HG22	1.85	0.58
2:P9:413:MET:HB3	2:P9:417:GLU:OE2	2.04	0.58
2:Q3:88:HIS:NE2	2:R9:284:GLU:HG3	2.19	0.58
2:R1:3:GLU:HB2	2:R1:129:CYS:SG	2.43	0.58
2:R3:369:ALA:HB1	7:4R:88:ARG:HD3	1.85	0.58
2:S7:137:VAL:HG22	2:S7:168:GLY:HA2	1.86	0.58
2:U5:98:ASP:OD1	2:U5:99:ALA:N	2.36	0.58
1:V4:331:LEU:O	1:V4:335:ASN:ND2	2.37	0.58
2:V9:132:LEU:HD22	2:V9:164:LYS:HD3	1.84	0.58
1:W0:11:GLN:N	39:W0:502:GDP:O1B	2.31	0.58
1:W4:140:GLY:O	1:W4:184:ASN:ND2	2.36	0.58
2:X3:305:CYS:SG	2:X3:383:ALA:HB1	2.44	0.58
1:Z2:68:LEU:HB3	1:Z2:96:GLY:HA2	1.85	0.58
1:Z4:49:VAL:HG21	1:Z4:241:ARG:HG2	1.86	0.58
1:Z8:207:LEU:HD23	1:Z8:225:LEU:HB3	1.86	0.58
1:0M:393:ALA:HB2	2:0N:346:TRP:CD1	2.37	0.58
2:0V:266:HIS:O	2:0V:266:HIS:ND1	2.37	0.58
1:0W:309:ARG:H	1:0W:372:THR:HG22	1.69	0.58
1:1A:72:THR:O	1:1A:76:VAL:HG23	2.04	0.58
1:1C:7:ILE:HD13	1:1C:151:LEU:HD21	1.85	0.58
2:1D:69:ASP:OD1	2:1D:70:LEU:N	2.36	0.58
1:1K:309:ARG:NH1	1:1K:339:SER:O	2.37	0.58
1:1O:163:MET:HB3	1:1O:250:LEU:HD22	1.86	0.58
1:1O:177:ASP:O	2:1P:352:LYS:HA	2.04	0.58
2:1P:276:ILE:HG12	2:1P:281:ALA:HB2	1.86	0.58
1:1Q:96:GLY:O	1:1Q:103:LYS:NZ	2.27	0.58
2:1Z:70:LEU:HB2	2:1Z:98:ASP:HA	1.86	0.58
1:2I:186:THR:HG22	1:2I:411:ALA:HB1	1.86	0.58
2:2T:336:LYS:O	2:2T:339:ARG:NH2	2.36	0.58
2:3B:407:TRP:CD2	1:3C:255:VAL:HG12	2.39	0.58
2:3L:305:CYS:SG	2:3L:383:ALA:HB1	2.44	0.58
2:3L:399:TYR:O	2:3L:402:ARG:NH1	2.37	0.58
2:3N:130:THR:HB	3:4D:170:GLU:OE2	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3T:111:GLY:O	2:3T:115:VAL:HG22	2.02	0.58
6:4P:78:ALA:HB2	20:6F:41:LEU:HD11	1.85	0.58
8:4W:443:ILE:HD11	8:4X:113:ARG:HE	1.69	0.58
13:5K:70:LYS:HZ1	13:5K:75:PHE:HZ	1.50	0.58
17:5S:188:LYS:O	17:5S:192:VAL:HG23	2.04	0.58
18:6C:18:VAL:HG23	18:6C:23:VAL:HG13	1.84	0.58
21:6H:16:GLU:OE1	21:6H:20:ARG:NE	2.35	0.58
22:6K:188:ARG:NH2	22:6K:256:TYR:O	2.37	0.58
24:6W:123:TYR:CE2	24:6W:163:PRO:HG3	2.39	0.58
24:6X:212:VAL:O	24:6X:216:THR:HG23	2.04	0.58
27:7G:23:VAL:HG23	27:7G:24:LYS:H	1.68	0.58
31:7M:78:HIS:N	31:7M:79:PRO:CD	2.67	0.58
31:7N:80:PRO:HD2	31:7N:83:THR:HG22	1.85	0.58
34:7R:227:LYS:HA	35:7T:181:LEU:HD21	1.85	0.58
36:7W:18:GLU:C	36:7W:102:MET:HE2	2.24	0.58
2:B2:278:ALA:HB3	18:5Z:43:ASN:HD22	1.67	0.58
1:G4:78:SER:HB2	24:6X:499:GLU:N	2.19	0.58
2:G9:99:ALA:HA	2:G9:105:ARG:HD2	1.86	0.58
1:H4:277:GLY:CA	24:6U:492:ILE:HG22	2.34	0.58
2:H7:301:MET:HE1	2:H7:307:PRO:HD3	1.85	0.58
2:I3:236:SER:O	2:I3:243:ARG:NH2	2.37	0.58
2:I5:119:LEU:HD21	2:I5:156:ARG:HB3	1.84	0.58
2:I5:129:CYS:SG	2:I5:130:THR:N	2.77	0.58
2:I5:340:THR:HG23	2:I5:341:ILE:HG12	1.84	0.58
1:J2:88:ASP:O	16:5Q:186:HIS:CD2	2.57	0.58
1:L4:37:HIS:HA	29:7J:335:GLU:CD	2.23	0.58
1:L6:173:PRO:HD2	1:L6:380:ARG:HE	1.69	0.58
1:N0:113:ILE:HA	1:N0:116:VAL:HG22	1.85	0.58
2:O3:176:GLN:NE2	2:O3:207:GLU:OE2	2.37	0.58
1:O6:277:GLY:HA2	20:6F:21:GLU:HG2	1.83	0.58
1:O8:27:GLU:OE2	1:O8:318:ARG:NH2	2.37	0.58
2:O9:129:CYS:SG	2:O9:130:THR:N	2.76	0.58
2:P7:278:ALA:HA	2:P7:369:ALA:HB2	1.86	0.58
2:Q3:278:ALA:HA	2:Q3:369:ALA:HB2	1.86	0.58
1:R0:117:LEU:HA	1:R0:120:VAL:HG12	1.85	0.58
1:R2:4:ILE:HD11	1:R2:240:LEU:HD22	1.85	0.58
1:R8:128:ASP:OD1	1:R8:129:CYS:N	2.35	0.58
2:R9:384:ILE:HD12	2:R9:384:ILE:H	1.69	0.58
1:S0:2:ARG:HB3	1:S0:131:GLN:HB2	1.86	0.58
2:S1:166:LYS:N	2:S1:199:ASP:OD2	2.36	0.58
1:S8:11:GLN:HA	1:S8:72:THR:HG21	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T1:66:ILE:HD12	2:T1:68:LEU:HD23	1.86	0.58
1:T2:145:SER:HG	1:T2:188:SER:HG	1.43	0.58
1:U2:392:LYS:HD2	1:U2:395:LEU:HD22	1.86	0.58
2:U3:109:THR:OG1	2:U3:411:GLU:OE2	2.18	0.58
2:U7:405:VAL:HG13	2:U7:418:PHE:HE2	1.69	0.58
2:V3:218:ASP:OD2	2:V3:280:LYS:NZ	2.37	0.58
1:V6:11:GLN:N	39:V6:501:GDP:O2B	2.34	0.58
1:W4:263:LEU:HD13	1:W4:422:TYR:CE1	2.39	0.58
1:X0:43:GLN:HE21	8:4X:97:PHE:CB	2.17	0.58
1:X2:207:LEU:HD13	1:X2:225:LEU:HB3	1.85	0.58
2:Z3:276:ILE:HG23	2:Z3:280:LYS:HB2	1.86	0.58
1:0A:337:ASN:HB3	1:0A:340:TYR:HD2	1.68	0.58
1:0C:178:THR:HG22	1:0C:179:VAL:H	1.68	0.58
1:0G:172:SER:HB3	1:0G:175:VAL:HG22	1.86	0.58
2:0J:313:MET:HB2	2:0J:380:ASN:HB3	1.85	0.58
1:0O:101:TRP:HB2	1:0O:184:ASN:OD1	2.02	0.58
1:0O:237:THR:HG23	1:0O:240:LEU:HD13	1.84	0.58
1:0Y:49:VAL:HG21	1:0Y:240:LEU:HD13	1.85	0.58
2:1B:387:ILE:HG12	2:1B:390:ARG:HH22	1.69	0.58
2:1F:119:LEU:HA	2:1F:122:ILE:HG12	1.85	0.58
2:1F:288:VAL:O	2:1F:292:THR:HG23	2.03	0.58
2:1R:119:LEU:HA	2:1R:122:ILE:HG12	1.86	0.58
1:1U:67:ASP:OD1	1:1U:67:ASP:N	2.37	0.58
2:2D:381:SER:OG	2:2D:382:THR:N	2.37	0.58
1:2I:273:LEU:O	1:2I:292:GLN:NE2	2.37	0.58
2:2P:388:PHE:HB3	2:2P:425:LEU:HD11	1.86	0.58
1:3S:414:ASN:HA	1:3S:417:ASP:OD2	2.04	0.58
4:3W:180:GLU:OE1	4:3W:180:GLU:N	2.34	0.58
4:4I:180:GLU:OE1	4:4I:180:GLU:N	2.34	0.58
7:4U:232:GLU:O	7:4U:236:THR:HG22	2.04	0.58
8:4W:229:GLU:HG3	8:4W:233:LYS:HE2	1.86	0.58
8:4X:113:ARG:HA	8:4X:116:ASN:HD21	1.68	0.58
10:5B:226:ARG:O	10:5B:230:ARG:HG2	2.03	0.58
13:5K:57:ASP:OD1	13:5K:58:ASN:N	2.36	0.58
14:5L:506:SER:HB2	14:5L:508:PHE:CZ	2.39	0.58
18:6A:18:VAL:HG23	18:6A:23:VAL:HG13	1.84	0.58
18:6B:18:VAL:HG23	18:6B:23:VAL:HG13	1.84	0.58
18:6C:131:GLU:H	18:6C:131:GLU:CD	2.06	0.58
18:6D:18:VAL:HG23	18:6D:23:VAL:HG13	1.84	0.58
18:6D:131:GLU:H	18:6D:131:GLU:CD	2.06	0.58
38:8C:122:LYS:O	38:8C:126:THR:HG23	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:8D:201:LEU:HD23	38:8D:201:LEU:C	2.24	0.58
2:8:29:GLY:CA	26:7E:45:MET:CE	2.82	0.58
1:9:44:LEU:HG	18:6A:84:ARG:HH22	1.69	0.58
1:D6:56:GLY:H	22:6O:54:ARG:HD2	1.68	0.58
2:G3:279:GLU:HG2	2:G3:280:LYS:H	1.69	0.58
1:G4:135:VAL:HG21	1:G4:152:ILE:HD11	1.85	0.58
1:G6:80:PRO:O	1:G6:81:TYR:HB2	2.04	0.58
2:H1:213:CYS:HA	2:H1:217:LEU:HB2	1.85	0.58
2:I3:72:PRO:HG3	1:I4:1:MET:HG2	1.86	0.58
1:I4:334:GLN:HE22	1:I4:348:ASN:H	1.52	0.58
1:J0:219:THR:HG21	5:4L:361:ARG:HH22	1.69	0.58
2:K3:264:ARG:NH2	2:K3:431:ASP:OD2	2.35	0.58
2:K5:80:THR:HG22	29:7I:48:ARG:HD2	1.86	0.58
2:K7:264:ARG:NH2	2:K7:431:ASP:OD2	2.37	0.58
1:K8:5:VAL:HG23	1:K8:62:ARG:HG2	1.85	0.58
1:L4:336:LYS:HG2	35:7U:148:GLN:OE1	2.04	0.58
2:L7:195:LEU:O	2:L7:266:HIS:NE2	2.33	0.58
2:M5:220:GLU:HB3	30:7K:124:GLU:OE1	2.04	0.58
2:N5:4:VAL:HG12	2:N5:133:GLN:HB2	1.85	0.58
2:N5:246:GLY:HA3	2:N5:356:ASN:HA	1.86	0.58
1:O0:309:ARG:H	1:O0:372:THR:HG22	1.68	0.58
1:O2:181:GLU:HG2	1:O2:182:PRO:HD3	1.85	0.58
2:O5:98:ASP:OD1	2:O5:99:ALA:N	2.36	0.58
2:P9:217:LEU:HD21	2:P9:368:LEU:HD23	1.86	0.58
1:Q8:122:LYS:NZ	1:S4:291:GLN:OE1	2.28	0.58
2:Q9:113:GLU:HB3	13:5H:93:ASN:OD1	2.04	0.58
2:R1:222:PRO:HD2	1:R2:324:LYS:HE3	1.85	0.58
1:R6:113:ILE:HD11	1:R6:151:LEU:HD13	1.86	0.58
1:R8:273:LEU:H	1:R8:292:GLN:HE22	1.51	0.58
1:S6:309:ARG:H	1:S6:372:THR:HG22	1.69	0.58
2:S7:170:THR:HG21	2:S7:194:LEU:HD11	1.86	0.58
2:S7:305:CYS:HB3	2:S7:387:ILE:HD11	1.85	0.58
2:T3:266:HIS:ND1	2:T3:266:HIS:O	2.37	0.58
2:U3:183:GLU:HG3	2:U3:184:PRO:HD3	1.86	0.58
2:V1:76:ASP:OD1	1:V2:46:ARG:NH2	2.36	0.58
2:V1:147:SER:OG	2:V1:190:SER:OG	2.15	0.58
2:V3:267:PHE:HB2	2:V3:384:ILE:HD12	1.85	0.58
1:W0:272:PRO:HB2	1:W0:282:ARG:HH12	1.68	0.58
2:W1:34:GLY:HA3	2:W1:60:LYS:NZ	2.19	0.58
1:W2:190:HIS:HD2	1:W2:411:ALA:HA	1.66	0.58
1:W8:113:ILE:HA	1:W8:116:VAL:HG12	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X3:9:ILE:HG22	2:X3:146:GLY:HA2	1.86	0.58
2:X7:5:ILE:HG22	2:X7:64:ARG:HB3	1.86	0.58
2:Y3:223:THR:OG1	1:Y4:245:GLN:NE2	2.37	0.58
1:0G:116:VAL:HA	1:0G:119:VAL:HG12	1.86	0.58
1:0K:113:ILE:HA	1:0K:116:VAL:HG22	1.85	0.58
1:0K:248:ALA:HA	1:0K:252:LYS:HD2	1.86	0.58
2:0Z:58:ALA:O	9:4Z:165:ARG:NH2	2.36	0.58
2:1H:198:THR:HG21	2:1H:201:ALA:HB2	1.86	0.58
1:1S:23:VAL:HG11	1:1S:230:SER:HB2	1.86	0.58
1:2A:77:ARG:HE	1:2A:90:PHE:HE2	1.52	0.58
2:2D:90:GLU:N	2:2D:90:GLU:OE2	2.37	0.58
2:2D:398:MET:HG3	1:2E:346:PRO:HD2	1.86	0.58
2:2X:214:ARG:CZ	38:8B:18:VAL:HA	2.33	0.58
2:3J:51:THR:HG21	2:3J:243:ARG:HG2	1.85	0.58
1:3K:210:ILE:HA	1:3K:297:LYS:NZ	2.19	0.58
2:3L:223:THR:HG22	2:3L:224:TYR:H	1.69	0.58
4:4A:180:GLU:OE1	4:4A:180:GLU:N	2.34	0.58
4:4E:180:GLU:OE1	4:4E:180:GLU:N	2.34	0.58
5:4L:417:LYS:NZ	16:5Q:52:ALA:O	2.37	0.58
5:4M:320:GLN:HB3	28:7X:428:LEU:HD11	1.85	0.58
6:4O:248:ARG:O	6:4O:252:THR:HG23	2.04	0.58
7:4T:227:ALA:HB1	31:7M:20:ILE:HD12	1.84	0.58
10:5B:257:GLN:HG3	10:5B:261:LYS:HZ1	1.69	0.58
13:5H:57:ASP:OD1	13:5H:58:ASN:N	2.36	0.58
13:5I:57:ASP:OD1	13:5I:58:ASN:N	2.36	0.58
15:5O:226:ARG:HB3	15:5O:226:ARG:CZ	2.34	0.58
16:5Q:191:TYR:OH	35:7T:137:ASN:ND2	2.29	0.58
18:5X:131:GLU:H	18:5X:131:GLU:CD	2.06	0.58
18:5Y:18:VAL:HG23	18:5Y:23:VAL:HG13	1.84	0.58
18:5Z:131:GLU:H	18:5Z:131:GLU:CD	2.06	0.58
18:6B:131:GLU:H	18:6B:131:GLU:CD	2.06	0.58
24:6W:565:GLN:OE1	24:6W:602:LEU:HB2	2.04	0.58
30:7K:130:TYR:CE2	30:7K:132:ARG:HG2	2.38	0.58
35:7U:204:LYS:O	35:7U:208:GLU:HG2	2.04	0.58
1:C4:142:GLY:N	39:C4:501:GDP:O2B	2.37	0.57
2:D1:279:GLU:OE1	18:6A:167:SER:HA	2.04	0.57
2:G1:195:LEU:HD11	2:G1:428:LEU:HD21	1.84	0.57
1:G2:392:LYS:HG3	1:G2:395:LEU:HD22	1.86	0.57
2:I1:392:ASP:OD2	2:I1:422:ARG:NH1	2.37	0.57
2:J1:223:THR:HG22	2:J1:224:TYR:H	1.68	0.57
1:J4:238:CYS:SG	1:J4:318:ARG:NE	2.77	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J6:175:VAL:CG2	1:J6:205:GLU:HG3	2.34	0.57
1:J6:177:ASP:O	2:J7:352:LYS:HA	2.04	0.57
1:J6:334:GLN:NE2	1:J6:348:ASN:OD1	2.37	0.57
2:L1:264:ARG:NH2	2:L1:431:ASP:OD2	2.37	0.57
2:M5:279:GLU:OE2	2:M5:279:GLU:N	2.37	0.57
2:N1:248:LEU:HD22	2:N1:354:GLY:HA2	1.85	0.57
2:N1:267:PHE:HB2	2:N1:384:ILE:HD12	1.85	0.57
2:N1:417:GLU:HA	2:N1:420:GLU:HG2	1.86	0.57
2:O1:88:HIS:CE1	2:O1:89:PRO:HD2	2.38	0.57
2:O5:211:ASP:OD1	2:O5:214:ARG:NH2	2.37	0.57
2:O7:91:GLN:HA	2:O7:121:ARG:NH1	2.18	0.57
2:P3:75:VAL:HG12	2:P3:79:ARG:HE	1.68	0.57
2:Q1:65:CYS:SG	2:Q1:66:ILE:N	2.76	0.57
1:Q8:198:GLU:HA	1:Q8:264:HIS:HB2	1.86	0.57
2:Q9:9:ILE:HD11	2:Q9:153:LEU:HD23	1.85	0.57
2:R3:56:THR:HG23	2:R3:60:LYS:HB3	1.85	0.57
2:T1:9:ILE:HD13	2:T1:150:GLY:HA2	1.86	0.57
1:T2:164:MET:HB3	1:T2:197:ASP:OD2	2.04	0.57
1:T2:173:PRO:HB3	1:T2:384:GLN:HE22	1.69	0.57
1:T8:286:VAL:HG23	1:T8:287:PRO:HD3	1.86	0.57
1:T8:336:LYS:NZ	1:T8:337:ASN:OD1	2.37	0.57
2:U1:109:THR:OG1	2:U1:411:GLU:OE2	2.18	0.57
2:V1:9:ILE:HG12	2:V1:68:LEU:HD11	1.85	0.57
1:V6:382:SER:HB3	1:V6:415:MET:HG2	1.86	0.57
1:W6:138:SER:OG	1:W6:139:LEU:N	2.37	0.57
1:X2:152:ILE:HD13	1:X2:155:ILE:HD11	1.86	0.57
1:X8:111:GLU:HG2	1:X8:112:LEU:HD22	1.84	0.57
1:X8:122:LYS:O	1:X8:126:SER:OG	2.17	0.57
2:Y9:102:ASN:HD21	2:Y9:411:GLU:HG3	1.68	0.57
1:Z0:190:HIS:NE2	1:Z0:414:ASN:OD1	2.36	0.57
2:Z5:53:PHE:HB3	2:Z5:61:HIS:HB3	1.86	0.57
1:Z8:211:CYS:SG	1:Z8:220:PRO:HB3	2.43	0.57
1:0C:8:GLN:HE21	1:0C:14:ASN:HA	1.67	0.57
1:0O:86:ARG:NH1	1:0O:89:ASN:OD1	2.37	0.57
2:0P:177:VAL:HB	1:0Q:331:LEU:HD11	1.85	0.57
2:0V:132:LEU:HD22	2:0V:164:LYS:HD3	1.85	0.57
2:1B:73:THR:OG1	2:1B:77:GLU:OE1	2.19	0.57
2:1B:381:SER:OG	2:1B:382:THR:N	2.37	0.57
2:1H:178:SER:OG	2:1H:183:GLU:OE2	2.19	0.57
2:1H:381:SER:OG	2:1H:382:THR:N	2.37	0.57
2:1P:175:PRO:HD2	2:1P:207:GLU:OE1	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1T:364:PRO:HG2	9:4Z:287:TYR:HE2	1.69	0.57
1:1U:252:LYS:HE2	1:1U:350:LYS:HE2	1.86	0.57
1:2A:3:GLU:HB2	1:2A:130:LEU:HD23	1.84	0.57
2:2D:183:GLU:HG3	2:2D:184:PRO:HD3	1.86	0.57
1:2M:139:LEU:HD12	1:2M:170:VAL:HG12	1.86	0.57
2:2T:399:TYR:O	2:2T:402:ARG:NH1	2.34	0.57
1:2U:203:ASP:OD2	1:2U:302:ALA:N	2.37	0.57
1:2W:130:LEU:HB2	1:2W:162:ARG:HE	1.69	0.57
1:2W:272:PRO:HB2	1:2W:282:ARG:HH12	1.69	0.57
10:5B:264:ALA:O	10:5B:267:LEU:HG	2.03	0.57
12:5G:374:THR:HG23	12:5G:376:ARG:HG3	1.86	0.57
18:5X:18:VAL:HG23	18:5X:23:VAL:HG13	1.84	0.57
18:5Y:131:GLU:H	18:5Y:131:GLU:CD	2.06	0.57
31:7N:81:SER:HA	31:7N:84:TYR:CD2	2.39	0.57
33:7Q:146:GLU:HB2	33:7Q:149:GLU:HG2	1.85	0.57
35:7T:176:ASN:OD1	35:7T:179:ARG:NH2	2.37	0.57
1:5:39:ASP:O	26:7D:25:TYR:CD2	2.57	0.57
2:C1:365:GLY:HA2	18:6D:46:LEU:HB3	1.85	0.57
1:D6:204:ASN:HD21	39:D6:501:GDP:HN22	1.49	0.57
1:E2:33:THR:HG23	24:6U:405:ALA:HB2	1.87	0.57
1:G2:287:PRO:HA	1:G2:290:THR:HG22	1.85	0.57
2:G3:56:THR:HA	2:H9:285:GLN:HB2	1.86	0.57
2:G7:75:VAL:HG11	2:G7:94:SER:HB2	1.85	0.57
2:G9:88:HIS:CE1	2:I5:283:HIS:HA	2.39	0.57
2:I5:90:GLU:H	2:K1:283:HIS:CE1	2.22	0.57
2:I5:331:SER:O	2:I5:334:THR:OG1	2.19	0.57
1:I8:273:LEU:H	1:I8:292:GLN:HE22	1.52	0.57
2:I9:109:THR:OG1	2:I9:411:GLU:OE2	2.22	0.57
2:I9:213:CYS:HA	2:I9:217:LEU:HB2	1.85	0.57
2:K3:195:LEU:HD21	2:K3:264:ARG:HD2	1.85	0.57
2:L1:129:CYS:SG	2:L1:130:THR:N	2.77	0.57
2:L1:392:ASP:OD2	2:L1:422:ARG:NH1	2.37	0.57
1:L4:121:ARG:NH2	1:L4:158:GLU:OE2	2.33	0.57
2:M1:109:THR:OG1	2:M1:411:GLU:OE2	2.22	0.57
1:M2:30:ILE:HG22	1:M2:36:TYR:HA	1.87	0.57
1:M2:37:HIS:NE2	15:5O:276:ASN:OD1	2.35	0.57
2:M5:344:VAL:HG13	2:M5:346:TRP:H	1.69	0.57
2:M7:286:LEU:O	2:M7:373:ARG:NH1	2.36	0.57
1:N8:67:ASP:OD2	1:N8:68:LEU:N	2.35	0.57
1:O8:276:ARG:HG2	1:O8:279:GLN:NE2	2.19	0.57
1:R0:223:GLY:HA3	7:4Q:365:SER:OG	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R1:287:SER:OG	2:R1:288:VAL:N	2.36	0.57
1:R2:177:ASP:O	2:R3:352:LYS:HA	2.04	0.57
2:R3:306:ASP:HB3	2:R3:309:HIS:HD2	1.68	0.57
1:R6:5:VAL:HG22	1:R6:133:PHE:HD1	1.69	0.57
1:S0:2:ARG:HE	1:S0:240:LEU:HD22	1.68	0.57
1:S6:113:ILE:HD11	1:S6:151:LEU:HA	1.86	0.57
1:S6:371:SER:OG	1:S6:372:THR:N	2.37	0.57
1:S8:22:GLU:HG2	1:S8:81:TYR:CD1	2.39	0.57
1:T6:207:LEU:HD13	1:T6:225:LEU:HB3	1.85	0.57
1:V2:257:LEU:HD21	1:V2:314:SER:HB3	1.86	0.57
1:V4:276:ARG:NH1	1:V4:279:GLN:OE1	2.36	0.57
1:V6:118:ASP:OD1	1:V6:121:ARG:NH1	2.37	0.57
2:V7:189:LEU:HD11	2:V7:418:PHE:HE1	1.69	0.57
1:V8:58:ARG:N	8:4V:469:GLN:HE22	2.02	0.57
1:W0:418:LEU:O	1:W0:421:GLU:HG2	2.05	0.57
2:W5:129:CYS:SG	2:W5:130:THR:N	2.76	0.57
2:W9:267:PHE:HB2	2:W9:384:ILE:HD12	1.85	0.57
1:X0:309:ARG:H	1:X0:372:THR:HG22	1.68	0.57
1:Y4:135:VAL:HG11	1:Y4:152:ILE:HD11	1.86	0.57
1:Z2:287:PRO:HA	1:Z2:290:THR:HG22	1.86	0.57
1:0E:397:TRP:NE1	2:0F:260:VAL:O	2.33	0.57
2:0F:33:ASP:OD2	2:0F:35:GLN:NE2	2.37	0.57
2:0N:362:VAL:HG13	2:0N:370:LYS:HZ3	1.69	0.57
1:0S:204:ASN:OD1	39:0S:502:GDP:N2	2.35	0.57
2:0V:379:SER:OG	2:0V:380:ASN:N	2.35	0.57
1:1G:237:THR:HG23	1:1G:241:ARG:HE	1.68	0.57
2:1L:287:SER:N	2:1L:290:GLU:OE2	2.26	0.57
1:1M:248:ALA:CA	1:1M:252:LYS:HD3	2.29	0.57
1:1U:210:ILE:O	1:1U:214:THR:OG1	2.19	0.57
1:1W:248:ALA:HA	1:1W:252:LYS:HD2	1.84	0.57
1:2C:2:ARG:HE	1:2C:240:LEU:HD22	1.69	0.57
1:2I:350:LYS:NZ	1:2I:351:SER:O	2.35	0.57
2:2L:387:ILE:HG12	2:2L:390:ARG:HH22	1.70	0.57
1:2Y:128:ASP:OD1	1:2Y:129:CYS:N	2.33	0.57
2:3H:116:ASP:OD1	2:3H:117:LEU:N	2.37	0.57
1:3I:263:LEU:HD13	1:3I:422:TYR:CE1	2.39	0.57
4:3Y:180:GLU:OE1	4:3Y:180:GLU:N	2.34	0.57
6:4P:115:LYS:O	6:4P:119:GLU:HG2	2.04	0.57
8:4W:180:LEU:O	8:4W:184:VAL:HG23	2.04	0.57
12:5G:331:ASN:HD22	31:7N:16:THR:HB	1.69	0.57
13:5J:57:ASP:OD1	13:5J:58:ASN:N	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:5M:149:PHE:O	14:5M:167:GLY:N	2.36	0.57
18:5Z:18:VAL:HG23	18:5Z:23:VAL:HG13	1.84	0.57
18:6A:131:GLU:CD	18:6A:131:GLU:H	2.06	0.57
24:6T:122:TYR:HB2	24:6T:131:HIS:HB3	1.85	0.57
24:6U:378:TRP:O	24:6U:382:ASN:ND2	2.37	0.57
24:6W:558:LEU:HD22	24:6W:608:GLN:HB3	1.86	0.57
24:6Z:212:VAL:O	24:6Z:216:THR:HG23	2.04	0.57
2:8:29:GLY:HA2	26:7E:45:MET:SD	2.43	0.57
2:F9:221:ARG:HG3	22:6K:178:GLY:HA2	1.85	0.57
2:I1:145:THR:OG1	41:I1:501:GTP:O1B	2.23	0.57
1:I4:272:PRO:HB2	1:I4:282:ARG:HH12	1.68	0.57
2:I7:137:VAL:HG22	2:I7:168:GLY:HA2	1.87	0.57
2:I9:98:ASP:OD1	2:I9:99:ALA:N	2.37	0.57
1:L2:5:VAL:HG23	1:L2:62:ARG:HG2	1.85	0.57
1:L6:382:SER:HB3	1:L6:415:MET:HG2	1.86	0.57
2:L7:287:SER:N	2:L7:290:GLU:OE2	2.37	0.57
2:L7:414:GLU:HG3	2:L7:416:GLY:H	1.68	0.57
2:M5:58:ALA:CB	37:7Y:215:HIS:H	2.16	0.57
1:M6:2:ARG:HB3	1:M6:131:GLN:HB2	1.87	0.57
2:M9:387:ILE:HG12	2:M9:390:ARG:HH22	1.69	0.57
1:N0:309:ARG:H	1:N0:372:THR:HG22	1.68	0.57
1:N6:320:ARG:NH1	32:7O:62:THR:OG1	2.36	0.57
2:O9:392:ASP:OD2	2:O9:422:ARG:NH1	2.38	0.57
1:R0:20:PHE:HA	1:R0:230:SER:HB2	1.87	0.57
2:R1:14:ILE:HD11	2:R1:74:VAL:HG13	1.86	0.57
2:R3:102:ASN:HD21	2:R3:411:GLU:HG3	1.69	0.57
2:R9:50:ASN:O	2:R9:64:ARG:NH2	2.37	0.57
1:T2:2:ARG:HE	1:T2:240:LEU:HD22	1.69	0.57
1:T2:49:VAL:HG11	1:T2:241:ARG:HG2	1.86	0.57
2:T7:339:ARG:HB3	13:5K:26:ALA:HB2	1.84	0.57
1:T8:209:ASP:OD1	13:5K:114:LEU:HB3	2.05	0.57
2:U1:195:LEU:HD11	2:U1:264:ARG:HH11	1.69	0.57
1:V0:51:PHE:O	1:V0:62:ARG:NH2	2.37	0.57
2:W7:211:ASP:OD1	2:W7:214:ARG:NH2	2.37	0.57
2:X3:133:GLN:HB3	2:X3:252:ILE:HG21	1.86	0.57
1:X4:130:LEU:HB2	1:X4:162:ARG:HE	1.69	0.57
2:Y3:399:TYR:O	2:Y3:402:ARG:NH1	2.36	0.57
2:Y3:417:GLU:HA	2:Y3:420:GLU:HG2	1.85	0.57
1:Y4:113:ILE:HA	1:Y4:116:VAL:HG22	1.86	0.57
2:Z5:210:TYR:CE1	2:Z5:227:LEU:HD11	2.39	0.57
2:Z7:85:GLN:O	2:Z7:88:HIS:NE2	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z7:191:THR:HA	2:Z7:194:LEU:HB3	1.84	0.57
1:Z8:328:GLU:O	1:Z8:332:ASN:ND2	2.36	0.57
1:0A:122:LYS:HD2	1:0Q:292:GLN:HE22	1.69	0.57
1:0G:215:LEU:HD21	1:0G:273:LEU:HD12	1.85	0.57
2:0H:68:LEU:HD11	2:0H:153:LEU:HD21	1.86	0.57
1:0S:182:PRO:HG3	1:0S:384:GLN:HE21	1.68	0.57
1:0U:35:THR:OG1	1:0U:37:HIS:NE2	2.36	0.57
1:0U:309:ARG:H	1:0U:372:THR:HG22	1.70	0.57
2:0X:278:ALA:HA	2:0X:369:ALA:HB2	1.86	0.57
1:1E:31:ASP:OD1	1:1E:35:THR:N	2.30	0.57
1:1G:4:ILE:HD11	1:1G:240:LEU:HD12	1.85	0.57
1:1M:282:ARG:NH2	1:1M:283:ALA:O	2.34	0.57
2:1N:101:ASN:OD1	1:1O:252:LYS:HE3	2.04	0.57
2:1P:174:SER:HB3	2:1P:207:GLU:CD	2.25	0.57
1:1S:107:THR:OG1	1:1S:401:GLU:OE2	2.22	0.57
1:2G:135:VAL:HG21	1:2G:152:ILE:HD11	1.87	0.57
1:2G:173:PRO:HD2	1:2G:380:ARG:HE	1.69	0.57
2:2J:98:ASP:OD1	2:2J:99:ALA:N	2.36	0.57
2:2R:191:THR:HA	2:2R:194:LEU:HB2	1.86	0.57
2:2V:27:GLU:OE1	2:2V:243:ARG:NH1	2.33	0.57
1:2W:220:PRO:HD2	2:2X:326:LYS:HD3	1.85	0.57
1:3G:94:GLN:HG3	1:3G:95:THR:HG23	1.86	0.57
2:3J:221:ARG:NE	38:8B:174:SER:OG	2.38	0.57
1:3M:95:THR:HG21	3:4D:138:GLY:HA2	1.86	0.57
3:4B:38:THR:HG21	4:4C:3:LYS:HB2	1.86	0.57
4:4C:180:GLU:OE1	4:4C:180:GLU:N	2.34	0.57
4:4G:180:GLU:OE1	4:4G:180:GLU:N	2.34	0.57
6:4N:462:LEU:HA	6:4N:465:GLU:OE2	2.05	0.57
7:4T:334:LYS:O	7:4T:337:GLU:HG3	2.03	0.57
9:4Z:375:ILE:O	9:4Z:379:LYS:HG2	2.04	0.57
10:5A:262:ILE:O	10:5A:265:LYS:HG2	2.03	0.57
10:5D:199:TYR:O	10:5D:203:GLU:HG3	2.03	0.57
14:5L:149:PHE:O	14:5L:167:GLY:N	2.36	0.57
14:5N:163:LEU:HD12	14:5N:171:MET:CE	2.34	0.57
15:5P:366:VAL:O	15:5P:370:ASN:ND2	2.37	0.57
22:6K:146:LEU:HA	22:6K:149:ILE:HD12	1.86	0.57
22:6K:209:ASN:HA	22:6K:212:GLU:OE1	2.04	0.57
22:6L:172:ARG:HH22	22:6L:176:LYS:CE	2.17	0.57
27:7G:28:GLU:O	27:7G:32:GLN:HG2	2.04	0.57
1:A3:83:GLN:HB2	24:6Z:177:ARG:HH22	1.68	0.57
2:B4:59:GLY:HA3	24:6W:263:ARG:HH11	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G3:70:LEU:HG	2:G3:145:THR:HG23	1.86	0.57
2:G3:282:TYR:CE1	22:6M:133:PRO:CG	2.86	0.57
1:I0:418:LEU:HG	1:I0:422:TYR:HE2	1.69	0.57
2:J3:223:THR:HG23	2:J3:225:THR:H	1.70	0.57
2:K3:222:PRO:HD2	1:K4:324:LYS:HE3	1.86	0.57
2:K7:88:HIS:HD1	2:M3:283:HIS:HB2	1.69	0.57
1:L6:334:GLN:HE22	1:L6:348:ASN:H	1.52	0.57
1:M0:128:ASP:OD1	1:M0:129:CYS:N	2.35	0.57
2:M5:264:ARG:NH2	2:M5:431:ASP:OD2	2.37	0.57
2:M7:90:GLU:O	2:M7:121:ARG:NH1	2.33	0.57
2:N1:279:GLU:OE2	30:7L:319:ARG:N	2.37	0.57
2:N9:125:LEU:HD23	2:N9:125:LEU:C	2.24	0.57
2:O3:72:PRO:HD2	1:O4:2:ARG:HH12	1.68	0.57
2:O7:21:TRP:CZ2	2:O7:65:CYS:HB3	2.40	0.57
2:O7:392:ASP:OD2	2:O7:422:ARG:NH1	2.37	0.57
2:O7:405:VAL:HG13	2:O7:418:PHE:HE2	1.70	0.57
2:Q3:183:GLU:HG3	2:Q3:184:PRO:HD3	1.86	0.57
2:Q5:381:SER:OG	2:Q5:382:THR:N	2.35	0.57
1:R4:58:ARG:NH2	1:T0:280:GLN:OE1	2.38	0.57
2:S5:322:ASP:OD2	2:S5:373:ARG:NH2	2.36	0.57
2:S7:265:ILE:HD11	2:S7:435:VAL:HG21	1.85	0.57
2:T3:206:ASN:OD1	41:T4:501:GTP:N2	2.37	0.57
1:T4:392:LYS:HD2	1:T4:395:LEU:HD22	1.86	0.57
2:U9:77:GLU:OE1	1:V0:243:PRO:HB3	2.04	0.57
2:V3:120:ASP:OD1	2:V3:121:ARG:N	2.37	0.57
1:V6:132:GLY:HA3	1:V6:163:MET:HB3	1.87	0.57
2:V9:236:SER:O	2:V9:243:ARG:NH2	2.38	0.57
2:W7:31:GLN:HE21	2:W7:37:PRO:HG3	1.70	0.57
2:W9:70:LEU:HD13	2:W9:95:GLY:HA3	1.87	0.57
2:X3:189:LEU:HD11	2:X3:418:PHE:HE1	1.70	0.57
2:X5:186:ASN:OD1	2:X5:408:TYR:OH	2.20	0.57
1:Z0:274:THR:OG1	1:Z0:282:ARG:NH1	2.37	0.57
2:0F:278:ALA:HA	2:0F:369:ALA:HB2	1.86	0.57
1:0K:8:GLN:NE2	1:0K:13:GLY:O	2.28	0.57
1:0K:15:GLN:HB3	1:0K:226:ASN:HD21	1.69	0.57
1:0S:334:GLN:HE22	1:0S:347:ASN:H	1.51	0.57
2:0V:178:SER:OG	2:0V:183:GLU:OE2	2.16	0.57
1:0W:128:ASP:OD1	1:0W:129:CYS:N	2.35	0.57
2:1B:288:VAL:O	2:1B:292:THR:HG23	2.04	0.57
2:1D:317:LEU:HB3	2:1D:319:TYR:HE1	1.68	0.57
2:1L:223:THR:HG23	2:1L:225:THR:H	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1M:177:ASP:N	1:1M:181:GLU:OE2	2.38	0.57
2:1N:346:TRP:HD1	2:1N:346:TRP:H	1.52	0.57
1:1O:252:LYS:HE2	1:1O:350:LYS:CE	2.34	0.57
1:1Q:21:TRP:HA	1:1Q:24:VAL:HG12	1.86	0.57
1:2C:12:CYS:SG	1:2C:138:SER:HB2	2.44	0.57
2:2H:120:ASP:OD1	38:8B:24:TYR:CD2	2.56	0.57
2:2V:222:PRO:HD2	1:2W:324:LYS:HE3	1.86	0.57
2:2Z:384:ILE:HA	2:2Z:387:ILE:HD12	1.87	0.57
2:3B:119:LEU:HD11	2:3B:156:ARG:HB3	1.85	0.57
1:3G:113:ILE:HD13	1:3G:150:LEU:HD22	1.87	0.57
2:3N:289:ALA:O	2:3N:293:ASN:ND2	2.37	0.57
2:3P:392:ASP:OD2	2:3P:422:ARG:NH1	2.38	0.57
2:3T:248:LEU:HD22	2:3T:354:GLY:HA2	1.85	0.57
5:4M:252:GLU:HA	5:4M:255:ASN:HD21	1.67	0.57
8:4W:417:ARG:O	8:4W:421:THR:HG23	2.05	0.57
9:4Z:218:LEU:O	9:4Z:222:THR:HG23	2.03	0.57
11:5E:14:TRP:CZ3	11:5E:103:VAL:CG2	2.87	0.57
14:5N:149:PHE:O	14:5N:167:GLY:N	2.36	0.57
12:7B:58:ARG:O	12:7B:59:GLU:HG3	2.03	0.57
25:7C:110:ARG:HD2	25:7C:110:ARG:N	2.20	0.57
30:7K:125:PRO:HB2	30:7K:128:ALA:HB3	1.85	0.57
38:8A:91:GLN:O	38:8A:102:PHE:CE1	2.58	0.57
2:D5:79:ARG:NH2	22:6O:19:GLY:O	2.37	0.57
2:E5:206:ASN:OD1	41:E6:501:GTP:N2	2.18	0.57
2:E9:33:ASP:HB3	22:6N:130:LEU:HD12	1.87	0.57
1:F8:218:THR:OG1	24:6U:418:ASP:OD1	2.21	0.57
2:G3:296:PHE:HE1	2:G3:377:MET:HG3	1.69	0.57
2:H1:116:ASP:OD1	2:H1:117:LEU:N	2.36	0.57
2:H3:145:THR:OG1	41:H3:501:GTP:O1B	2.22	0.57
1:I0:219:THR:HA	2:I1:326:LYS:HZ2	1.68	0.57
2:I9:3:GLU:HB2	2:I9:129:CYS:SG	2.44	0.57
1:J0:345:ILE:O	1:J0:348:ASN:ND2	2.37	0.57
2:J9:98:ASP:OD1	2:J9:99:ALA:N	2.38	0.57
2:K1:29:GLY:HA2	28:7X:402:ARG:NH2	2.19	0.57
1:L4:388:MET:HE2	2:L5:348:PRO:HD2	1.86	0.57
2:M3:313:MET:HB2	2:M3:380:ASN:HB3	1.87	0.57
1:M4:165:LEU:HD21	1:M4:250:LEU:HD21	1.87	0.57
1:N0:117:LEU:HA	1:N0:120:VAL:HG12	1.86	0.57
2:N3:280:LYS:HA	2:N3:283:HIS:HB3	1.86	0.57
2:N5:69:ASP:OD1	2:N5:70:LEU:N	2.36	0.57
1:O8:248:ALA:HA	1:O8:252:LYS:HD2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R0:67:ASP:N	1:R0:67:ASP:OD1	2.37	0.57
1:R2:121:ARG:HD3	17:5S:48:THR:O	2.05	0.57
1:R8:135:VAL:HG21	1:R8:152:ILE:HD11	1.85	0.57
2:S1:145:THR:OG1	41:S2:501:GTP:O1B	2.22	0.57
2:S1:392:ASP:OD2	2:S1:422:ARG:NH1	2.37	0.57
2:S7:76:ASP:OD1	1:S8:46:ARG:NH2	2.38	0.57
1:T0:391:ARG:HD3	2:T1:346:TRP:CD1	2.39	0.57
2:T1:90:GLU:O	2:T1:121:ARG:NH1	2.31	0.57
2:T3:176:GLN:NE2	13:5J:90:PRO:HG3	2.20	0.57
1:U4:121:ARG:NH2	1:U4:158:GLU:OE2	2.37	0.57
1:V6:273:LEU:H	1:V6:292:GLN:HE22	1.51	0.57
1:W4:190:HIS:CD2	1:W4:411:ALA:HA	2.39	0.57
1:X0:212:PHE:CE1	1:X0:220:PRO:HG3	2.39	0.57
2:X7:172:TYR:CE2	2:X7:203:MET:HG2	2.40	0.57
2:Y3:76:ASP:HA	2:Y3:79:ARG:HB2	1.86	0.57
1:Z0:285:THR:HB	1:Z0:287:PRO:HD2	1.87	0.57
2:Z7:336:LYS:O	2:Z7:339:ARG:NH2	2.37	0.57
2:Z7:399:TYR:O	2:Z7:402:ARG:NH1	2.37	0.57
1:0E:116:VAL:HA	1:0E:119:VAL:HG12	1.86	0.57
2:0L:290:GLU:HA	2:0L:293:ASN:HD22	1.70	0.57
1:0M:309:ARG:H	1:0M:372:THR:HG22	1.70	0.57
1:0U:391:ARG:HH21	2:0V:435:VAL:HG22	1.69	0.57
2:0X:344:VAL:HG22	2:0X:346:TRP:H	1.68	0.57
2:0Z:217:LEU:HB3	2:0Z:219:ILE:HD12	1.85	0.57
1:1E:148:GLY:O	1:1E:152:ILE:HG13	2.03	0.57
2:1F:108:TYR:O	2:1F:112:LYS:NZ	2.26	0.57
2:1F:387:ILE:HG12	2:1F:390:ARG:HH22	1.69	0.57
1:1G:72:THR:O	1:1G:76:VAL:HG23	2.04	0.57
2:1H:336:LYS:O	2:1H:339:ARG:NH2	2.38	0.57
1:1O:350:LYS:NZ	1:1O:352:SER:OG	2.37	0.57
1:1U:97:ALA:HA	1:1U:103:LYS:HE3	1.87	0.57
2:2J:123:ARG:NE	38:8C:75:SER:HB3	2.20	0.57
1:2W:34:GLY:O	1:2W:58:ARG:HA	2.03	0.57
2:2Z:301:MET:HE1	2:2Z:307:PRO:HD3	1.85	0.57
2:3L:339:ARG:NH2	2:3L:342:GLN:HA	2.18	0.57
1:3O:130:LEU:HB2	1:3O:162:ARG:HE	1.70	0.57
4:3Y:27:LYS:HA	4:3Y:59:ILE:HG22	1.87	0.57
3:4J:191:ILE:HD11	3:4J:228:ALA:HB2	1.86	0.57
7:4R:62:PHE:CE2	24:6V:9:PRO:HD3	2.39	0.57
8:4W:203:THR:O	8:4W:207:THR:HG23	2.04	0.57
8:4W:458:GLU:O	8:4W:461:VAL:CG1	2.49	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:5C:263:GLN:O	10:5C:266:GLN:HG3	2.04	0.57
12:5F:298:ASP:CB	12:7B:13:PRO:HG3	2.35	0.57
13:5I:70:LYS:HZ1	13:5I:75:PHE:HZ	1.51	0.57
14:5M:219:LEU:CD1	14:5M:228:PHE:HD2	2.10	0.57
15:5O:52:TYR:CE2	15:5O:55:LEU:HD21	2.33	0.57
20:6F:84:ALA:HB1	20:6F:113:ARG:HG3	1.87	0.57
24:7A:107:VAL:HG22	24:7A:108:GLU:H	1.70	0.57
2:A4:324:VAL:HG11	26:7F:142:PHE:HZ	1.70	0.57
2:A8:222:PRO:HA	18:5X:51:MET:HE1	1.86	0.57
2:E1:282:TYR:OH	22:6I:81:ASN:HA	2.05	0.57
1:G2:113:ILE:HG12	1:G2:117:LEU:HG	1.87	0.57
1:G8:175:VAL:HG12	2:G9:329:ASN:ND2	2.19	0.57
2:H1:191:THR:HA	2:H1:194:LEU:HG	1.87	0.57
1:H6:262:ARG:HH21	1:H6:418:LEU:HD21	1.69	0.57
1:I2:391:ARG:HB2	2:I3:346:TRP:NE1	2.19	0.57
2:I9:121:ARG:O	2:I9:121:ARG:HD2	2.05	0.57
2:K7:27:GLU:CD	2:K7:243:ARG:HH12	2.08	0.57
2:K9:98:ASP:OD1	2:K9:99:ALA:N	2.37	0.57
1:L0:272:PRO:HB2	1:L0:282:ARG:HH12	1.69	0.57
2:L3:259:LEU:HD11	2:L3:316:CYS:HB2	1.87	0.57
2:L7:269:LEU:N	2:L7:379:SER:O	2.34	0.57
1:M4:2:ARG:HB3	1:M4:131:GLN:HB2	1.85	0.57
2:M7:223:THR:HG23	2:M7:225:THR:H	1.68	0.57
1:N0:388:MET:CE	2:N1:348:PRO:HD2	2.33	0.57
2:N3:205:ASP:OD1	2:N3:303:VAL:HG13	2.04	0.57
2:N7:335:ILE:HD12	2:N7:338:LYS:HD2	1.86	0.57
2:N7:356:ASN:ND2	2:N7:358:GLN:H	2.03	0.57
2:O1:51:THR:HG23	2:O1:52:PHE:CD2	2.39	0.57
2:O5:172:TYR:CE2	2:O5:203:MET:HG2	2.40	0.57
2:P5:381:SER:OG	2:P5:382:THR:N	2.37	0.57
1:P8:204:ASN:HD21	39:P8:502:GDP:HN22	1.52	0.57
1:Q8:211:CYS:HA	1:Q8:215:LEU:HB2	1.87	0.57
1:Q8:262:ARG:NH2	1:Q8:417:ASP:OD1	2.37	0.57
1:R8:178:THR:HG22	2:R9:352:LYS:HZ3	1.70	0.57
1:S6:190:HIS:CD2	1:S6:414:ASN:HB2	2.39	0.57
1:T0:244:GLY:H	1:T0:247:ASN:HD21	1.52	0.57
1:T8:135:VAL:HG21	1:T8:152:ILE:HD11	1.86	0.57
2:U3:9:ILE:HG22	2:U3:68:LEU:HD11	1.84	0.57
1:U8:335:ASN:O	1:U8:338:SER:OG	2.23	0.57
1:V0:97:ALA:HA	1:V0:103:LYS:HE3	1.87	0.57
2:V1:98:ASP:OD1	2:V1:99:ALA:N	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V8:113:ILE:HA	1:V8:116:VAL:HG22	1.86	0.57
1:V8:207:LEU:HB3	1:V8:225:LEU:HD22	1.86	0.57
2:W3:90:GLU:OE2	2:W3:90:GLU:HA	2.04	0.57
2:W5:286:LEU:O	2:W5:373:ARG:NH1	2.38	0.57
2:W9:16:VAL:HG22	2:W9:228:ASN:OD1	2.05	0.57
1:X8:250:LEU:HD12	1:X8:250:LEU:H	1.68	0.57
1:Y6:333:VAL:HA	1:Y6:336:LYS:HE2	1.87	0.57
1:0E:254:ALA:O	1:0E:258:ILE:HG22	2.04	0.57
1:0G:309:ARG:H	1:0G:372:THR:HG22	1.70	0.57
2:0P:259:LEU:HD21	2:0P:316:CYS:HB2	1.86	0.57
1:0S:136:CYS:HG	1:0S:167:PHE:HD2	1.51	0.57
1:0U:182:PRO:HG3	1:0U:388:MET:HE3	1.86	0.57
2:0Z:289:ALA:O	2:0Z:293:ASN:ND2	2.38	0.57
1:1A:207:LEU:HD11	1:1A:229:ILE:HD11	1.86	0.57
2:1D:83:TYR:HB3	2:1D:86:LEU:HB3	1.86	0.57
2:1F:274:PRO:HB2	2:1F:276:ILE:HG12	1.85	0.57
1:1K:177:ASP:O	2:1L:352:LYS:HA	2.05	0.57
2:1T:223:THR:HG23	2:1T:225:THR:HG22	1.86	0.57
1:1U:309:ARG:NH1	1:1U:339:SER:O	2.37	0.57
2:1Z:317:LEU:HB3	2:1Z:319:TYR:HE1	1.70	0.57
1:2M:118:ASP:OD2	38:8D:99:THR:HB	2.05	0.57
1:2S:3:GLU:HB2	1:2S:130:LEU:HA	1.87	0.57
2:2V:229:ARG:HD3	2:2V:363:VAL:HG21	1.86	0.57
1:3C:105:HIS:CD2	1:3C:150:LEU:HB2	2.39	0.57
2:3H:306:ASP:HB3	2:3H:309:HIS:HD2	1.70	0.57
1:3O:309:ARG:H	1:3O:372:THR:HG22	1.70	0.57
1:3S:285:THR:OG1	1:3S:287:PRO:HD2	2.04	0.57
4:4G:27:LYS:HA	4:4G:59:ILE:HG22	1.87	0.57
13:5H:70:LYS:HZ1	13:5H:75:PHE:HZ	1.51	0.57
13:5J:70:LYS:HZ1	13:5J:75:PHE:HZ	1.51	0.57
14:5L:577:VAL:HG23	14:5L:594:HIS:HE1	1.67	0.57
14:5N:377:ARG:HH21	23:6S:52:LEU:HD11	1.68	0.57
24:6T:277:CYS:HA	24:6T:368:LEU:HA	1.86	0.57
24:6T:488:ARG:H	24:6T:488:ARG:CD	2.13	0.57
36:7V:58:MET:HG2	36:7V:94:LEU:HG	1.87	0.57
36:7W:36:ALA:O	36:7W:40:THR:HG23	2.05	0.57
38:8C:204:GLN:HE21	38:8C:204:GLN:CA	2.17	0.57
1:3:280:GLN:HE22	1:S6:58:ARG:HG2	1.70	0.57
1:C2:362:LYS:HD3	18:6D:24:ARG:CA	2.35	0.57
2:G7:206:ASN:OD1	41:G7:501:GTP:N2	2.37	0.57
2:G7:222:PRO:HD2	1:G8:324:LYS:HE3	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G8:172:SER:HB3	1:G8:175:VAL:HG22	1.86	0.57
2:G9:49:PHE:HB2	2:G9:53:PHE:HD2	1.69	0.57
1:H4:156:ARG:NH1	1:H4:197:ASP:OD1	2.38	0.57
1:H4:277:GLY:HA3	24:6U:492:ILE:HG22	1.86	0.57
2:I1:27:GLU:OE1	2:I1:243:ARG:NH1	2.37	0.57
2:I5:236:SER:O	2:I5:243:ARG:NH2	2.38	0.57
1:I8:285:THR:HG23	1:I8:288:GLU:H	1.69	0.57
2:J3:392:ASP:OD2	2:J3:422:ARG:NH1	2.38	0.57
2:L7:56:THR:HA	2:N3:285:GLN:HB2	1.85	0.57
1:M0:107:THR:OG1	1:M0:401:GLU:OE2	2.15	0.57
1:M4:362:LYS:HD3	30:7K:173:GLU:HG3	1.87	0.57
1:M8:86:ARG:HB3	2:O5:283:HIS:HE1	1.68	0.57
1:M8:207:LEU:HB3	1:M8:225:LEU:HD22	1.86	0.57
2:N9:65:CYS:SG	2:N9:66:ILE:N	2.77	0.57
2:O5:222:PRO:HD2	1:O6:324:LYS:HE3	1.85	0.57
2:P5:50:ASN:HB3	27:7G:187:ARG:HH21	1.70	0.57
1:P8:45:GLU:HG3	1:P8:46:ARG:HG2	1.87	0.57
2:P9:286:LEU:O	2:P9:373:ARG:NH1	2.37	0.57
1:Q0:248:ALA:HB2	1:Q0:252:LYS:HE2	1.86	0.57
2:Q9:225:THR:HG21	12:7B:78:HIS:CD2	2.40	0.57
2:R5:324:VAL:HG12	2:R5:326:LYS:H	1.69	0.57
1:R6:130:LEU:HB2	1:R6:162:ARG:HE	1.70	0.57
1:R8:117:LEU:HA	1:R8:120:VAL:HG12	1.87	0.57
1:T0:252:LYS:CA	1:T0:255:VAL:HG12	2.32	0.57
1:T4:350:LYS:NZ	1:T4:351:SER:O	2.38	0.57
1:T4:390:ARG:HG2	1:T4:390:ARG:O	2.05	0.57
2:U9:399:TYR:O	2:U9:402:ARG:NH1	2.37	0.57
1:W4:309:ARG:H	1:W4:372:THR:HG22	1.69	0.57
2:W7:288:VAL:HG11	2:W7:327:ASP:HB2	1.86	0.57
2:X9:406:HIS:HA	2:X9:409:VAL:HG22	1.86	0.57
2:X9:422:ARG:HH12	2:X9:426:ALA:HB2	1.70	0.57
1:Y0:100:ASN:HB3	1:Y0:103:LYS:HB2	1.84	0.57
1:Z2:139:LEU:HD21	1:Z2:168:SER:HB2	1.85	0.57
2:Z3:244:PHE:HB2	2:Z3:356:ASN:HD21	1.70	0.57
1:Z6:309:ARG:H	1:Z6:372:THR:HG22	1.69	0.57
2:Z7:90:GLU:O	2:Z7:121:ARG:NH1	2.37	0.57
1:0E:320:ARG:HG2	1:0E:355:ASP:HB3	1.87	0.57
2:0J:156:ARG:HA	2:0J:159:VAL:HG22	1.87	0.57
1:0Q:72:THR:O	1:0Q:76:VAL:HG23	2.04	0.57
1:0W:55:THR:HG22	1:1M:284:LEU:HD11	1.85	0.57
1:1A:301:CYS:SG	1:1A:302:ALA:N	2.77	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1F:213:CYS:HA	2:1F:217:LEU:HB2	1.86	0.57
2:1H:265:ILE:HD12	2:1H:267:PHE:HD2	1.69	0.57
2:1N:305:CYS:SG	2:1N:383:ALA:HB1	2.44	0.57
1:1S:350:LYS:NZ	1:1S:352:SER:OG	2.37	0.57
2:1V:34:GLY:HA3	2:1V:60:LYS:HZ2	1.69	0.57
2:1Z:338:LYS:HD2	2:1Z:340:THR:HG22	1.87	0.57
2:1Z:343:PHE:CZ	2:1Z:351:PHE:HE1	2.22	0.57
1:2I:118:ASP:CB	38:8C:99:THR:HG22	2.24	0.57
2:2R:336:LYS:O	2:2R:339:ARG:NH2	2.38	0.57
2:2T:183:GLU:HG3	2:2T:184:PRO:HD3	1.85	0.57
2:3J:183:GLU:HG3	2:3J:184:PRO:HD3	1.86	0.57
1:3Q:217:LEU:HD22	38:8D:229:ASN:H	1.70	0.57
2:3R:109:THR:OG1	2:3R:411:GLU:OE2	2.21	0.57
4:4C:27:LYS:HA	4:4C:59:ILE:HG22	1.87	0.57
5:4L:466:LEU:O	5:4M:146:ARG:NH2	2.38	0.57
6:4O:74:ARG:NH2	6:4O:75:ALA:HB2	2.19	0.57
9:4Z:239:ARG:O	9:4Z:242:GLU:HG3	2.05	0.57
14:5M:24:HIS:HB2	14:5M:29:THR:HB	1.85	0.57
15:5P:14:LEU:HD23	15:5P:14:LEU:O	2.04	0.57
21:6G:37:ILE:HG23	21:6G:40:PHE:HB3	1.85	0.57
22:6K:110:ILE:O	22:6K:113:ARG:NH1	2.38	0.57
24:6X:97:ARG:NH2	24:6X:99:TYR:OH	2.37	0.57
25:7C:109:PRO:C	25:7C:110:ARG:HD2	2.25	0.57
29:7J:388:MET:N	29:7J:388:MET:SD	2.77	0.57
30:7K:353:ASN:ND2	30:7K:357:GLU:OE1	2.37	0.57
37:7Y:11:THR:HA	37:7Y:14:ILE:HD12	1.86	0.57
38:8C:73:TRP:N	38:8C:73:TRP:CD1	2.73	0.57
1:7:337:ASN:ND2	3:4B:68:SER:HA	2.18	0.57
2:G3:399:TYR:O	2:G3:402:ARG:NH1	2.38	0.57
1:G6:73:MET:O	1:G6:76:VAL:HG22	2.05	0.57
2:G9:406:HIS:HA	2:G9:409:VAL:HG12	1.87	0.57
2:H3:222:PRO:HD2	1:H4:324:LYS:HE3	1.87	0.57
1:H6:113:ILE:HD13	1:H6:150:LEU:HD22	1.86	0.57
1:H6:128:ASP:OD1	1:H6:129:CYS:N	2.38	0.57
2:H7:278:ALA:HA	2:H7:369:ALA:HB2	1.87	0.57
1:H8:199:CYS:HB2	1:H8:265:PHE:HD1	1.68	0.57
1:H8:287:PRO:HA	1:H8:290:THR:HG22	1.87	0.57
2:H9:392:ASP:OD2	2:H9:422:ARG:NH1	2.37	0.57
2:I7:313:MET:HB2	2:I7:380:ASN:HB3	1.86	0.57
2:J3:90:GLU:CB	2:J3:121:ARG:HH12	2.16	0.57
2:K3:271:SER:OG	2:K3:377:MET:HB3	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L4:39:ASP:O	29:7J:339:GLN:NE2	2.38	0.57
1:N6:8:GLN:HG2	1:N6:17:GLY:HA3	1.87	0.57
2:O3:56:THR:HG22	2:Q1:285:GLN:HB2	1.86	0.57
2:O7:344:VAL:HG13	2:O7:347:CYS:H	1.70	0.57
2:P3:14:ILE:HD11	2:P3:74:VAL:HG13	1.86	0.57
2:P5:296:PHE:HE2	2:P5:335:ILE:HG13	1.69	0.57
1:Q2:301:CYS:SG	1:Q2:302:ALA:N	2.78	0.57
2:Q9:137:VAL:HG11	2:Q9:154:LEU:HD21	1.85	0.57
1:R2:139:LEU:HD12	1:R2:170:VAL:HG12	1.86	0.57
1:T2:193:VAL:HG23	1:T2:194:GLU:HG2	1.86	0.57
2:T5:11:GLN:OE1	2:T5:15:GLN:NE2	2.37	0.57
1:T8:350:LYS:NZ	1:T8:351:SER:O	2.37	0.57
2:U7:85:GLN:OE1	2:U7:85:GLN:HA	2.04	0.57
2:V1:287:SER:N	2:V1:290:GLU:OE2	2.38	0.57
1:V4:135:VAL:HG21	1:V4:152:ILE:HD11	1.87	0.57
1:V6:49:VAL:HG21	1:V6:240:LEU:HD13	1.85	0.57
1:V6:256:ASN:HB2	1:V6:350:LYS:HZ3	1.70	0.57
1:W8:233:MET:O	1:W8:237:THR:HG22	2.04	0.57
1:X0:43:GLN:HE21	8:4X:97:PHE:HB3	1.70	0.57
2:X5:327:ASP:N	2:X5:327:ASP:OD2	2.37	0.57
2:X7:90:GLU:O	2:X7:121:ARG:NH1	2.38	0.57
2:X7:284:GLU:HG2	2:X7:285:GLN:H	1.70	0.57
1:X8:248:ALA:HA	1:X8:252:LYS:HD2	1.86	0.57
2:X9:292:THR:OG1	2:X9:319:TYR:OH	2.21	0.57
2:Y1:12:ALA:HB2	41:Y1:501:GTP:C8	2.40	0.57
2:Y9:313:MET:HE3	2:Y9:380:ASN:HB3	1.87	0.57
2:Y9:417:GLU:HA	2:Y9:420:GLU:HG2	1.87	0.57
1:Z8:58:ARG:HH11	1:Z8:84:ILE:HA	1.68	0.57
2:0H:115:VAL:HG23	2:0H:153:LEU:HD12	1.85	0.57
2:0J:88:HIS:HB3	2:0Z:283:HIS:ND1	2.19	0.57
2:0L:83:TYR:HB3	2:0L:86:LEU:HB3	1.85	0.57
2:0L:167:LEU:HD13	2:0L:200:VAL:HB	1.87	0.57
2:1F:286:LEU:HD11	2:1F:372:GLN:HB2	1.86	0.57
2:1N:145:THR:OG1	41:1N:501:GTP:O1B	2.21	0.57
1:2E:2:ARG:HB3	1:2E:131:GLN:HB2	1.87	0.57
1:2K:121:ARG:O	1:2K:125:GLU:HG2	2.05	0.57
2:2P:217:LEU:HD11	2:2P:275:ILE:HD11	1.85	0.57
2:3B:11:GLN:OE1	2:3B:15:GLN:NE2	2.37	0.57
2:3B:77:GLU:OE2	38:8D:199:THR:OG1	2.10	0.57
1:3C:320:ARG:HH22	38:8D:198:THR:HA	1.70	0.57
1:3G:2:ARG:HE	1:3G:240:LEU:HD22	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3M:3:GLU:HG3	1:3M:127:CYS:HB2	1.85	0.57
2:3P:163:LYS:HE3	3:4F:137:ARG:HG2	1.87	0.57
2:3R:75:VAL:HG21	2:3R:94:SER:HB3	1.86	0.57
12:5G:322:LEU:HD13	12:5G:332:ASN:HB2	1.87	0.57
14:5M:577:VAL:HG23	14:5M:594:HIS:HE1	1.68	0.57
14:5N:577:VAL:HG23	14:5N:594:HIS:HE1	1.67	0.57
17:5V:208:LYS:HA	17:5V:211:ARG:HH11	1.69	0.57
21:6H:37:ILE:HG21	21:6H:40:PHE:HD2	1.70	0.57
24:6T:378:TRP:O	24:6T:382:ASN:ND2	2.38	0.57
24:6U:502:LYS:HB3	24:6U:511:ILE:HD12	1.87	0.57
26:7F:48:LEU:N	26:7F:49:PRO:HD2	2.20	0.57
34:7S:171:LEU:HD11	35:7U:124:GLN:HE22	1.70	0.57
36:7V:36:ALA:O	36:7V:40:THR:HG23	2.05	0.57
37:7Y:214:ASP:OD2	37:7Y:229:ALA:HB2	2.03	0.57
2:A2:40:LYS:HZ1	26:7F:45:MET:N	2.03	0.57
1:B8:276:ARG:O	24:6Y:115:ARG:NH2	2.35	0.57
2:C5:280:LYS:NZ	18:5X:166:HIS:HB3	2.20	0.57
2:E9:206:ASN:OD1	41:F0:501:GTP:N2	2.28	0.57
1:F0:35:THR:HG21	22:6N:260:VAL:H	1.68	0.57
2:F9:278:ALA:HB3	22:6K:215:GLY:HA2	1.86	0.57
2:G9:9:ILE:HG22	2:G9:68:LEU:HD22	1.87	0.57
1:H2:113:ILE:HA	1:H2:116:VAL:HG22	1.87	0.57
1:I2:290:THR:HA	1:I2:293:MET:HB2	1.87	0.57
2:I9:320:ARG:NH2	2:I9:359:PRO:O	2.38	0.57
2:J1:189:LEU:HD11	2:J1:418:PHE:HE1	1.70	0.57
2:J7:216:SER:OG	2:J7:275:ILE:O	2.23	0.57
2:J9:320:ARG:NH2	2:J9:359:PRO:O	2.38	0.57
2:K3:223:THR:HG23	2:K3:225:THR:H	1.69	0.57
2:K5:417:GLU:HA	2:K5:420:GLU:HG2	1.87	0.57
2:L1:206:ASN:OD1	41:L2:501:GTP:N2	2.36	0.57
1:L6:309:ARG:NH1	1:L6:339:SER:O	2.38	0.57
2:L9:204:LEU:HD13	2:L9:231:ILE:HD12	1.85	0.57
1:N2:135:VAL:HG11	1:N2:152:ILE:HD11	1.87	0.57
1:N2:179:VAL:HG22	2:N3:258:ASN:HD22	1.69	0.57
1:N6:14:ASN:HD21	1:N6:67:ASP:HB3	1.69	0.57
2:N7:222:PRO:HD2	1:N8:324:LYS:HE3	1.87	0.57
1:Q0:318:ARG:HD3	1:Q0:358:PRO:HD3	1.87	0.57
2:Q5:286:LEU:O	2:Q5:373:ARG:NH1	2.38	0.57
2:T3:88:HIS:CE1	2:T3:90:GLU:H	2.23	0.57
1:T6:306:ARG:HH12	17:5U:51:ARG:C	2.07	0.57
2:U1:399:TYR:OH	2:U1:415:GLU:OE2	2.22	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U3:279:GLU:HB3	2:U3:283:HIS:CE1	2.40	0.57
2:W9:70:LEU:HB3	2:W9:97:GLU:O	2.04	0.57
2:W9:132:LEU:HD22	2:W9:164:LYS:HD3	1.87	0.57
1:X2:173:PRO:HG2	1:X2:380:ARG:HH21	1.70	0.57
1:Y2:100:ASN:HB3	1:Y2:103:LYS:HB2	1.85	0.57
2:Y9:3:GLU:HG3	2:Y9:51:THR:HA	1.87	0.57
2:Y9:392:ASP:OD2	2:Y9:422:ARG:NH1	2.38	0.57
1:Z0:182:PRO:HB2	1:Z0:385:PHE:HD2	1.70	0.57
1:Z4:135:VAL:HG21	1:Z4:152:ILE:HD11	1.86	0.57
1:0A:126:SER:HA	1:0Q:291:GLN:HE22	1.69	0.57
1:0I:2:ARG:HB3	1:0I:131:GLN:HB2	1.87	0.57
1:0M:107:THR:OG1	1:0M:401:GLU:OE2	2.20	0.57
1:0O:388:MET:N	1:0O:388:MET:HE2	2.20	0.57
2:0R:12:ALA:HB2	41:0S:501:GTP:C8	2.39	0.57
2:0R:24:TYR:O	2:0R:27:GLU:HG2	2.05	0.57
1:1C:3:GLU:OE1	1:1C:62:ARG:HD2	2.05	0.57
2:1N:17:GLY:HA2	2:1N:20:CYS:HB3	1.87	0.57
1:1W:335:ASN:O	1:1W:338:SER:OG	2.22	0.57
1:2E:139:LEU:HD12	1:2E:170:VAL:HG22	1.87	0.57
1:2E:177:ASP:O	2:2F:352:LYS:HA	2.05	0.57
1:2U:125:GLU:OE2	1:2U:159:TYR:OH	2.22	0.57
2:2X:2:ARG:HA	2:2X:133:GLN:HE21	1.69	0.57
1:2Y:49:VAL:HG11	1:2Y:241:ARG:HG2	1.85	0.57
1:2Y:320:ARG:NH1	38:8C:197:THR:C	2.58	0.57
2:3F:392:ASP:OD2	2:3F:422:ARG:NH1	2.38	0.57
1:3I:95:THR:HG21	3:3Z:138:GLY:HA2	1.87	0.57
1:3S:72:THR:O	1:3S:76:VAL:HG23	2.05	0.57
9:4Z:202:ASP:OD1	9:4Z:206:ARG:NH1	2.36	0.57
14:5N:24:HIS:HB2	14:5N:29:THR:HB	1.85	0.57
14:5N:28:ARG:HG2	14:5N:28:ARG:NH1	2.20	0.57
14:5N:157:ASN:ND2	14:5N:203:ASP:O	2.38	0.57
15:5P:49:ARG:HG2	15:5P:49:ARG:O	2.04	0.57
18:5X:7:LEU:HD13	18:5X:69:THR:HG21	1.86	0.57
18:5Y:39:TYR:CZ	26:7D:24:GLN:OE1	2.58	0.57
18:6B:7:LEU:HD13	18:6B:69:THR:HG21	1.86	0.57
18:6C:7:LEU:HD13	18:6C:69:THR:HG21	1.86	0.57
22:6L:177:LEU:HD11	22:6L:252:ASP:OD2	2.04	0.57
22:6M:59:PRO:HB3	22:6M:108:ARG:HH22	1.68	0.57
22:6M:205:GLU:OE1	22:6M:205:GLU:N	2.35	0.57
22:6O:271:ARG:HH22	22:6O:275:LEU:HD11	1.67	0.57
29:7J:359:ASP:OD1	29:7J:363:ARG:NH1	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:7T:182:ALA:O	35:7T:185:LYS:HG3	2.05	0.57
38:8A:73:TRP:HD1	38:8A:75:SER:HB2	1.69	0.57
1:E4:320:ARG:HH12	22:6K:115:SER:HA	1.70	0.57
2:G3:290:GLU:HA	2:G3:293:ASN:HD22	1.69	0.57
1:G6:33:THR:O	1:G6:58:ARG:NH2	2.38	0.57
1:H2:114:ASP:N	1:H2:114:ASP:OD1	2.38	0.57
2:H3:274:PRO:HB2	2:H3:276:ILE:CG1	2.35	0.57
1:I4:237:THR:CG2	1:I4:240:LEU:HD12	2.35	0.57
1:J4:43:GLN:HE21	16:5Q:15:VAL:HG21	1.69	0.57
2:J7:287:SER:N	2:J7:290:GLU:OE2	2.38	0.57
2:L3:109:THR:OG1	2:L3:411:GLU:OE2	2.16	0.57
1:N2:86:ARG:HB3	2:O9:283:HIS:CE1	2.40	0.57
2:N5:121:ARG:HD2	2:N5:121:ARG:O	2.04	0.57
1:P8:37:HIS:O	21:6G:167:ARG:NH1	2.32	0.57
2:Q9:402:ARG:HB3	2:Q9:405:VAL:HG21	1.87	0.57
1:R8:190:HIS:CD2	1:R8:411:ALA:HA	2.39	0.57
1:R8:334:GLN:HE22	1:R8:348:ASN:H	1.53	0.57
2:S5:72:PRO:HD2	1:S6:2:ARG:HH12	1.69	0.57
2:S5:414:GLU:HG2	2:S5:416:GLY:H	1.68	0.57
1:S6:67:ASP:N	1:S6:67:ASP:OD1	2.36	0.57
2:S7:167:LEU:HD13	2:S7:200:VAL:HB	1.87	0.57
2:S7:289:ALA:O	2:S7:293:ASN:ND2	2.38	0.57
2:V1:177:VAL:HG13	1:V2:327:ASP:HB3	1.86	0.57
2:W1:88:HIS:NE2	2:W1:90:GLU:CB	2.68	0.57
1:X0:42:LEU:HD23	8:4X:97:PHE:HE2	1.68	0.57
2:X3:22:GLU:HG3	2:X3:83:TYR:OH	2.05	0.57
1:X6:263:LEU:HD22	1:X6:422:TYR:HE1	1.70	0.57
2:X9:236:SER:O	2:X9:243:ARG:NH2	2.37	0.57
2:Y1:236:SER:O	2:Y1:243:ARG:NH2	2.37	0.57
1:Y6:309:ARG:H	1:Y6:372:THR:HG22	1.70	0.57
1:Y8:113:ILE:HA	1:Y8:116:VAL:HG22	1.87	0.57
2:Z3:5:ILE:HG12	2:Z3:64:ARG:HB3	1.86	0.57
1:0A:167:PHE:HD1	1:0A:200:MET:HB2	1.70	0.57
1:0M:8:GLN:CD	1:0M:17:GLY:HA3	2.25	0.57
1:0M:303:ALA:HB2	1:0M:377:MET:HG2	1.86	0.57
2:0P:177:VAL:HA	1:0Q:331:LEU:HD21	1.85	0.57
1:0Q:31:ASP:OD2	1:0Q:33:THR:OG1	2.18	0.57
1:0S:233:MET:O	1:0S:237:THR:HG22	2.04	0.57
1:0Y:8:GLN:O	1:0Y:66:MET:HG3	2.05	0.57
2:1B:379:SER:OG	2:1B:380:ASN:N	2.36	0.57
1:1C:273:LEU:H	1:1C:292:GLN:HE22	1.53	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1D:60:LYS:HE3	2:1T:282:TYR:O	2.05	0.57
2:1D:88:HIS:HD2	2:1D:121:ARG:HH22	1.53	0.57
1:1O:178:THR:OG1	1:1O:181:GLU:HG3	2.05	0.57
2:1T:213:CYS:HA	2:1T:217:LEU:HB2	1.85	0.57
2:2N:103:PHE:HB3	2:2N:408:TYR:HE2	1.69	0.57
2:2R:88:HIS:CE1	2:3H:283:HIS:HA	2.40	0.57
2:2V:76:ASP:OD1	1:2W:46:ARG:NH2	2.38	0.57
2:3R:203:MET:HB2	2:3R:303:VAL:HG21	1.87	0.57
2:3R:223:THR:HG23	2:3R:225:THR:H	1.69	0.57
4:3W:27:LYS:HA	4:3W:59:ILE:HG22	1.87	0.57
4:4E:27:LYS:HA	4:4E:59:ILE:HG22	1.87	0.57
5:4M:222:GLU:HA	5:4M:225:MET:HG2	1.86	0.57
6:4O:301:MET:O	6:4O:304:GLU:HG3	2.05	0.57
9:4Z:294:GLU:HA	9:4Z:297:ARG:HD2	1.86	0.57
14:5L:24:HIS:HB2	14:5L:29:THR:HB	1.86	0.57
14:5L:157:ASN:ND2	14:5L:203:ASP:O	2.38	0.57
14:5M:28:ARG:HG2	14:5M:28:ARG:NH1	2.20	0.57
14:5M:157:ASN:ND2	14:5M:203:ASP:O	2.38	0.57
14:5N:210:TYR:CZ	14:5N:220:GLN:HG3	2.34	0.57
18:5Y:5:VAL:CG1	18:5Y:62:GLU:HG2	2.35	0.57
18:5Y:7:LEU:HD13	18:5Y:69:THR:HG21	1.86	0.57
18:5Z:7:LEU:HD13	18:5Z:69:THR:HG21	1.86	0.57
18:6A:7:LEU:HD13	18:6A:69:THR:HG21	1.86	0.57
18:6D:7:LEU:HD13	18:6D:69:THR:HG21	1.86	0.57
21:6G:125:GLU:OE2	21:6G:182:ARG:NH2	2.36	0.57
24:6Y:574:ARG:O	24:6Y:578:ILE:HG12	2.05	0.57
28:7H:398:ASP:OD1	28:7H:400:THR:HG23	2.05	0.57
34:7R:102:LEU:HD13	35:7T:50:LEU:HD22	1.87	0.57
36:7W:58:MET:HG2	36:7W:94:LEU:HG	1.87	0.57
37:7Y:237:ILE:O	37:7Y:241:THR:HG23	2.04	0.57
38:8B:156:VAL:O	38:8B:156:VAL:HG23	2.05	0.57
1:7:307:HIS:NE2	3:4B:59:LEU:HD11	2.19	0.56
2:E5:282:TYR:OH	22:6K:81:ASN:CA	2.23	0.56
1:F6:276:ARG:NH2	24:6T:408:PRO:O	2.35	0.56
2:G3:245:ASP:N	2:G3:245:ASP:OD1	2.38	0.56
1:G6:309:ARG:H	1:G6:372:THR:HG22	1.70	0.56
2:H1:99:ALA:HA	2:H1:105:ARG:HD3	1.85	0.56
2:H3:379:SER:OG	2:H3:380:ASN:N	2.36	0.56
1:H6:218:THR:CG2	24:6V:488:ARG:HB3	2.35	0.56
2:I1:318:MET:HB2	2:I1:376:CYS:HB3	1.86	0.56
2:I7:35:GLN:N	2:I7:35:GLN:OE1	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J0:248:ALA:HA	1:J0:252:LYS:HD2	1.85	0.56
1:J0:404:ASP:HB3	1:J0:406:MET:SD	2.45	0.56
1:J6:212:PHE:CE1	2:J7:326:LYS:HE3	2.31	0.56
1:J6:273:LEU:O	1:J6:292:GLN:NE2	2.38	0.56
2:J9:251:ASP:H	2:J9:254:GLU:HG2	1.70	0.56
2:J9:264:ARG:NH2	2:J9:431:ASP:OD2	2.38	0.56
2:K9:287:SER:OG	2:K9:288:VAL:N	2.38	0.56
2:L1:267:PHE:HB2	2:L1:384:ILE:HD12	1.86	0.56
1:L2:5:VAL:HG12	1:L2:133:PHE:HD1	1.70	0.56
1:L6:41:ASP:OD1	29:7J:167:ILE:HD12	1.95	0.56
2:N5:88:HIS:HD2	2:P3:283:HIS:HB3	1.70	0.56
1:O2:167:PHE:CZ	1:O2:233:MET:HG2	2.39	0.56
1:O6:114:ASP:OD1	1:O6:115:SER:N	2.38	0.56
2:Q3:62:VAL:HG21	2:Q3:88:HIS:HB2	1.86	0.56
2:R3:267:PHE:HB2	2:R3:384:ILE:HD12	1.87	0.56
1:S6:190:HIS:CD2	1:S6:411:ALA:HA	2.40	0.56
2:S7:226:ASN:O	2:S7:230:LEU:HG	2.05	0.56
2:T5:217:LEU:HD11	2:T5:230:LEU:HD11	1.87	0.56
1:U8:51:PHE:O	1:U8:62:ARG:NH2	2.38	0.56
1:V8:350:LYS:NZ	1:V8:352:SER:OG	2.29	0.56
2:W3:89:PRO:HD3	2:X9:283:HIS:CD2	2.39	0.56
1:W4:371:SER:OG	1:W4:372:THR:N	2.38	0.56
2:W7:72:PRO:HG3	1:W8:1:MET:HG3	1.87	0.56
2:X5:238:LEU:HD11	2:X5:255:PHE:CZ	2.39	0.56
1:Y0:387:ALA:HA	1:Y0:390:ARG:HE	1.68	0.56
1:Y4:208:TYR:CE1	1:Y4:225:LEU:HD11	2.40	0.56
1:Z2:190:HIS:NE2	1:Z2:414:ASN:OD1	2.38	0.56
2:Z3:165:SER:HA	2:Z3:199:ASP:OD2	2.05	0.56
1:Z4:204:ASN:ND2	39:Z4:501:GDP:HN22	2.03	0.56
1:Z8:220:PRO:HD2	2:Z9:326:LYS:HD2	1.87	0.56
1:0A:128:ASP:OD1	1:0A:129:CYS:N	2.35	0.56
1:0G:8:GLN:CD	1:0G:17:GLY:HA3	2.26	0.56
1:0K:113:ILE:HD12	1:0K:150:LEU:HB3	1.87	0.56
2:0L:51:THR:HG21	2:0L:243:ARG:HG2	1.87	0.56
2:0X:317:LEU:HB3	2:0X:319:TYR:HE1	1.70	0.56
2:0Z:58:ALA:CA	9:4Z:165:ARG:NH2	2.66	0.56
2:1F:109:THR:OG1	2:1F:411:GLU:OE2	2.22	0.56
2:1L:27:GLU:OE1	2:1L:243:ARG:NH1	2.38	0.56
2:1P:109:THR:OG1	2:1P:411:GLU:OE2	2.23	0.56
2:2H:88:HIS:NE2	2:2X:280:LYS:HE3	2.20	0.56
2:2N:56:THR:HA	2:3D:285:GLN:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2N:431:ASP:HA	2:2N:434:GLU:HG2	1.86	0.56
1:3C:391:ARG:HD3	2:3D:346:TRP:CE2	2.39	0.56
2:3T:70:LEU:HD21	2:3T:149:LEU:HD21	1.86	0.56
4:3Y:149:ILE:HG22	4:3Y:150:GLU:HG2	1.87	0.56
4:4A:27:LYS:HA	4:4A:59:ILE:HG22	1.87	0.56
4:4I:27:LYS:HA	4:4I:59:ILE:HG22	1.87	0.56
5:4L:370:ALA:O	5:4L:373:GLN:HG2	2.04	0.56
7:4T:266:MET:HG2	7:4T:270:GLU:HB2	1.87	0.56
14:5L:28:ARG:HG2	14:5L:28:ARG:NH1	2.20	0.56
14:5N:505:THR:OG1	14:5N:506:SER:N	2.37	0.56
17:5T:188:LYS:O	17:5T:192:VAL:HG23	2.05	0.56
22:6K:17:ILE:HG22	22:6K:19:GLY:H	1.69	0.56
22:6P:283:ILE:HD12	22:6P:350:PHE:CD1	2.40	0.56
24:6U:274:ARG:NE	24:6U:372:ASP:OD2	2.35	0.56
24:6Z:124:TYR:CD1	24:6Z:124:TYR:N	2.73	0.56
24:7A:97:ARG:NH2	24:7A:99:TYR:OH	2.38	0.56
27:7G:106:ALA:HB3	27:7G:109:ILE:HG22	1.87	0.56
1:9:228:LEU:HD21	26:7E:136:PHE:CZ	2.39	0.56
1:A1:333:VAL:HG22	3:4F:67:LEU:HD13	1.87	0.56
1:A3:83:GLN:HB2	24:6Z:177:ARG:NH2	2.20	0.56
1:C2:359:LYS:HA	18:6D:22:ARG:CZ	2.35	0.56
1:G0:216:LYS:HD2	24:6V:422:ASN:HD21	1.68	0.56
1:G2:177:ASP:O	2:G3:352:LYS:HA	2.04	0.56
2:G5:2:ARG:NE	2:G5:242:LEU:O	2.37	0.56
2:J1:165:SER:HB3	2:J1:256:GLN:HE22	1.69	0.56
2:J3:113:GLU:N	2:J3:113:GLU:OE1	2.38	0.56
1:K6:12:CYS:SG	1:K6:13:GLY:N	2.78	0.56
1:K6:309:ARG:NH1	1:K6:341:PHE:O	2.38	0.56
2:K7:89:PRO:HD3	2:M3:283:HIS:CD2	2.40	0.56
1:L2:177:ASP:O	2:L3:352:LYS:HA	2.04	0.56
1:L6:336:LYS:HD3	28:7X:456:VAL:HG23	1.85	0.56
2:M7:98:ASP:OD1	2:M7:99:ALA:N	2.38	0.56
1:O6:388:MET:HE2	2:O7:348:PRO:HD2	1.87	0.56
2:O9:191:THR:HA	2:O9:194:LEU:HB3	1.86	0.56
2:P5:417:GLU:HA	2:P5:420:GLU:HG2	1.87	0.56
1:Q8:317:PHE:HB2	1:Q8:353:VAL:HG22	1.87	0.56
2:Q9:250:VAL:HB	2:Q9:254:GLU:HG3	1.87	0.56
2:R1:279:GLU:CD	2:R1:279:GLU:H	2.08	0.56
2:R5:259:LEU:HD11	2:R5:316:CYS:HB2	1.86	0.56
1:R6:49:VAL:HG11	1:R6:241:ARG:HG2	1.86	0.56
1:S4:113:ILE:HD11	1:S4:147:MET:HG3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S4:272:PRO:HD3	1:S4:364:SER:HA	1.87	0.56
1:S6:125:GLU:OE2	3:3X:66:THR:HG23	2.05	0.56
1:T2:43:GLN:NE2	12:5F:174:TYR:OH	2.38	0.56
2:U3:392:ASP:OD2	2:U3:422:ARG:NH1	2.38	0.56
1:U8:117:LEU:HA	1:U8:120:VAL:HG12	1.85	0.56
1:V0:113:ILE:HA	1:V0:116:VAL:HG22	1.86	0.56
2:V7:399:TYR:O	2:V7:402:ARG:NH1	2.37	0.56
1:V8:11:GLN:HG3	1:V8:72:THR:HG22	1.86	0.56
2:W3:76:ASP:OD2	1:W4:46:ARG:NH2	2.39	0.56
1:W6:52:ASN:OD1	1:W6:62:ARG:NH2	2.38	0.56
1:W8:34:GLY:O	1:W8:58:ARG:HA	2.05	0.56
1:X0:287:PRO:HD3	1:X0:325:GLU:OE1	2.05	0.56
1:X4:182:PRO:O	1:X4:186:THR:OG1	2.15	0.56
1:X6:237:THR:HG23	1:X6:241:ARG:HH21	1.70	0.56
2:X7:346:TRP:CE3	2:X7:347:CYS:HB2	2.40	0.56
2:Z3:133:GLN:HG3	2:Z3:242:LEU:HD11	1.86	0.56
1:Z4:374:ILE:O	1:Z4:377:MET:HG3	2.04	0.56
1:0C:2:ARG:HB3	1:0C:131:GLN:HB2	1.87	0.56
1:0C:21:TRP:HA	1:0C:24:VAL:HG22	1.88	0.56
1:0E:286:VAL:HG23	1:0E:287:PRO:HD3	1.87	0.56
1:0K:163:MET:HB3	1:0K:250:LEU:HD22	1.86	0.56
1:0O:268:VAL:O	1:0O:300:MET:N	2.34	0.56
2:1H:109:THR:OG1	2:1H:411:GLU:OE2	2.22	0.56
1:1K:52:ASN:OD1	1:1K:62:ARG:NH2	2.38	0.56
2:1L:276:ILE:HG23	2:1L:280:LYS:HB2	1.87	0.56
1:1U:375:GLN:HB2	1:1U:419:VAL:HG23	1.86	0.56
1:1W:113:ILE:HD12	1:1W:150:LEU:HB3	1.86	0.56
2:1X:132:LEU:HD22	2:1X:164:LYS:HD3	1.87	0.56
1:2E:193:VAL:HG12	1:2E:265:PHE:HZ	1.69	0.56
2:2H:282:TYR:CE1	10:5B:163:ARG:HD2	2.40	0.56
1:2I:404:ASP:HB3	1:2I:406:MET:SD	2.45	0.56
2:2L:287:SER:N	2:2L:290:GLU:OE2	2.38	0.56
2:2L:417:GLU:HA	2:2L:420:GLU:HG2	1.85	0.56
1:2M:140:GLY:O	1:2M:184:ASN:ND2	2.38	0.56
1:2U:301:CYS:O	38:8B:105:ARG:NH1	2.37	0.56
2:2X:431:ASP:O	2:2X:434:GLU:HG2	2.04	0.56
2:2Z:214:ARG:NH2	38:8C:60:GLY:O	2.38	0.56
2:2Z:417:GLU:HA	2:2Z:420:GLU:HG2	1.86	0.56
1:3O:173:PRO:HD2	1:3O:380:ARG:CZ	2.35	0.56
2:3R:221:ARG:HB2	38:8D:174:SER:H	1.70	0.56
8:4V:473:LYS:HE2	8:4W:134:LEU:HD22	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:4Y:413:SER:O	9:4Y:416:GLU:HG3	2.04	0.56
14:5L:500:THR:OG1	14:5L:502:LYS:HG3	2.05	0.56
14:5M:500:THR:OG1	14:5M:502:LYS:HG3	2.05	0.56
14:5N:500:THR:OG1	14:5N:502:LYS:HG3	2.05	0.56
15:5O:20:ILE:HG23	27:7G:82:PRO:HB3	1.86	0.56
20:6F:55:LEU:HD22	20:6F:112:PRO:HA	1.87	0.56
23:6R:48:TYR:HE2	23:6R:52:LEU:HD12	1.70	0.56
24:6Z:482:ILE:HG22	24:6Z:497:PHE:HB3	1.86	0.56
30:7K:57:GLN:HG3	30:7K:61:HIS:HD2	1.68	0.56
28:7X:406:PRO:HG2	28:7X:408:GLN:HE21	1.70	0.56
1:E6:52:ASN:CG	22:6L:181:ASN:HD21	1.98	0.56
1:E8:77:ARG:HH11	24:6X:426:LEU:HG	1.70	0.56
1:G2:325:GLU:HA	1:G2:328:GLU:HG2	1.86	0.56
2:G3:98:ASP:OD1	2:G3:99:ALA:N	2.37	0.56
1:G6:7:ILE:O	1:G6:135:VAL:HA	2.06	0.56
1:G6:78:SER:HA	24:6Y:497:PHE:O	2.05	0.56
1:H2:2:ARG:HB3	1:H2:131:GLN:HB2	1.86	0.56
1:H4:122:LYS:NZ	1:J0:291:GLN:O	2.37	0.56
1:I0:67:ASP:N	1:I0:67:ASP:OD1	2.38	0.56
1:I0:345:ILE:O	1:I0:348:ASN:ND2	2.38	0.56
1:I8:3:GLU:HB2	1:I8:130:LEU:HA	1.87	0.56
1:J0:207:LEU:HB3	1:J0:225:LEU:HD22	1.88	0.56
2:J5:236:SER:OG	2:J5:243:ARG:NH2	2.38	0.56
2:J5:406:HIS:HA	2:J5:409:VAL:HG22	1.87	0.56
2:J7:80:THR:HB	29:7J:390:LEU:CD1	2.35	0.56
2:K5:69:ASP:OD1	2:K5:70:LEU:N	2.38	0.56
1:K6:285:THR:HG23	1:K6:288:GLU:H	1.70	0.56
1:K8:307:HIS:NE2	35:7T:136:GLU:OE2	2.37	0.56
1:L4:350:LYS:NZ	1:L4:351:SER:O	2.37	0.56
1:M0:6:HIS:HE2	1:M0:136:CYS:HG	1.53	0.56
2:M1:363:VAL:HG23	2:M1:366:GLY:HA3	1.86	0.56
2:M7:285:GLN:CG	30:7K:84:VAL:HG12	2.22	0.56
1:N2:107:THR:OG1	1:N2:401:GLU:OE2	2.19	0.56
1:N2:139:LEU:HD12	1:N2:170:VAL:HG12	1.87	0.56
2:N3:275:ILE:HD12	2:N3:368:LEU:HD21	1.87	0.56
1:N6:191:GLN:HE21	1:N6:195:ASN:ND2	2.03	0.56
2:N7:69:ASP:OD1	2:N7:70:LEU:N	2.37	0.56
2:N9:392:ASP:OD2	2:N9:422:ARG:NH1	2.38	0.56
1:O0:277:GLY:HA2	27:7G:31:PHE:HD2	1.70	0.56
2:O1:90:GLU:CB	2:O1:121:ARG:HH12	2.17	0.56
1:O6:178:THR:HG22	2:O7:352:LYS:HZ3	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O7:44:GLY:HA3	20:6F:242:ARG:HH12	1.69	0.56
2:P5:220:GLU:HG2	2:P5:221:ARG:HG3	1.86	0.56
1:P6:70:PRO:N	1:P6:92:PHE:HZ	2.03	0.56
2:P7:220:GLU:HG2	2:P7:221:ARG:HG3	1.87	0.56
1:Q2:156:ARG:NH1	1:Q2:197:ASP:OD1	2.38	0.56
1:Q8:190:HIS:CD2	1:Q8:411:ALA:HA	2.41	0.56
1:R8:220:PRO:HD2	2:R9:326:LYS:HD2	1.87	0.56
2:S1:381:SER:OG	2:S1:382:THR:N	2.37	0.56
1:S2:95:THR:HG21	1:S2:108:GLU:HG2	1.86	0.56
1:S4:50:TYR:CE2	1:S4:241:ARG:HD3	2.40	0.56
1:T0:336:LYS:HG3	13:5I:101:LYS:HD3	1.87	0.56
2:T3:305:CYS:SG	2:T3:383:ALA:HB1	2.45	0.56
1:T4:334:GLN:HE22	1:T4:348:ASN:H	1.52	0.56
1:T6:220:PRO:HD2	2:T7:326:LYS:HG2	1.87	0.56
1:U4:3:GLU:HB2	1:U4:130:LEU:HA	1.87	0.56
1:W0:139:LEU:HD12	1:W0:170:VAL:HG12	1.88	0.56
2:W9:72:PRO:HD2	1:X0:2:ARG:NH1	2.20	0.56
1:X0:128:ASP:OD1	1:X0:129:CYS:N	2.35	0.56
1:X2:178:THR:HA	2:X3:352:LYS:CD	2.34	0.56
1:X2:183:TYR:HB3	1:X2:398:TYR:HE2	1.69	0.56
2:X3:5:ILE:HG12	2:X3:64:ARG:HB3	1.88	0.56
2:X5:90:GLU:H	2:Z1:283:HIS:CE1	2.23	0.56
1:X8:2:ARG:HE	1:X8:240:LEU:HD22	1.69	0.56
1:X8:204:ASN:HD21	39:X8:501:GDP:HN22	1.53	0.56
2:X9:25:CYS:O	2:X9:30:ILE:N	2.24	0.56
2:X9:206:ASN:OD1	41:Y0:501:GTP:N2	2.37	0.56
2:Y1:305:CYS:SG	2:Y1:383:ALA:HB1	2.45	0.56
2:Y3:179:THR:HG21	1:Y4:246:LEU:HD11	1.87	0.56
2:Y5:392:ASP:OD2	2:Y5:422:ARG:NH1	2.38	0.56
1:Y8:215:LEU:HD21	1:Y8:273:LEU:HD12	1.87	0.56
2:Y9:88:HIS:HB3	2:0F:283:HIS:CE1	2.40	0.56
1:Z0:107:THR:OG1	1:Z0:401:GLU:OE2	2.22	0.56
2:Z1:227:LEU:O	2:Z1:231:ILE:HG12	2.05	0.56
2:Z5:223:THR:HG23	2:Z5:225:THR:H	1.69	0.56
2:Z7:68:LEU:HG	2:Z7:93:ILE:HB	1.85	0.56
2:Z7:276:ILE:HG23	2:Z7:280:LYS:HB3	1.87	0.56
1:0G:31:ASP:OD1	1:0G:35:THR:N	2.22	0.56
1:0I:248:ALA:HA	1:0I:252:LYS:HD2	1.86	0.56
2:0J:83:TYR:HB3	2:0J:86:LEU:HB3	1.86	0.56
2:0L:276:ILE:HG23	2:0L:280:LYS:HB3	1.85	0.56
2:0P:381:SER:OG	2:0P:382:THR:N	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0Q:54:ALA:HB3	1:0Q:58:ARG:HB3	1.88	0.56
2:0R:377:MET:SD	2:0R:379:SER:HB2	2.45	0.56
1:0U:309:ARG:NH1	1:0U:339:SER:O	2.38	0.56
1:0W:3:GLU:HG2	1:0W:127:CYS:SG	2.44	0.56
1:0W:418:LEU:HG	1:0W:422:TYR:HE2	1.70	0.56
2:0X:217:LEU:HB3	2:0X:219:ILE:HD12	1.88	0.56
2:1D:90:GLU:HB3	2:1D:121:ARG:HH22	1.71	0.56
1:1E:183:TYR:HA	1:1E:385:PHE:HE1	1.70	0.56
1:1G:397:TRP:HE1	2:1H:260:VAL:HG13	1.71	0.56
2:1L:101:ASN:OD1	1:1M:252:LYS:HE3	2.05	0.56
1:1M:113:ILE:HD13	1:1M:150:LEU:HD22	1.86	0.56
2:1R:63:PRO:HB2	2:1R:65:CYS:SG	2.45	0.56
2:1R:379:SER:OG	2:1R:380:ASN:N	2.39	0.56
2:1V:287:SER:OG	2:1V:290:GLU:OE1	2.19	0.56
1:1W:72:THR:O	1:1W:76:VAL:HG23	2.06	0.56
2:1Z:155:GLU:OE1	2:1Z:156:ARG:HD2	2.05	0.56
1:2E:218:THR:O	2:2F:326:LYS:NZ	2.31	0.56
1:2I:244:GLY:H	1:2I:247:ASN:HD21	1.53	0.56
1:2K:396:HIS:HA	1:2K:399:THR:HG22	1.88	0.56
1:2M:186:THR:HG22	1:2M:411:ALA:HB1	1.88	0.56
2:2X:274:PRO:HG2	2:2X:371:VAL:HG21	1.86	0.56
2:3B:251:ASP:H	2:3B:254:GLU:HG2	1.71	0.56
2:3B:358:GLN:OE1	38:8D:214:HIS:CD2	2.59	0.56
2:3J:117:LEU:HD13	4:4A:6:PHE:HB2	1.85	0.56
2:3P:221:ARG:NH1	23:6S:70:THR:O	2.31	0.56
1:3Q:203:ASP:HB2	1:3Q:205:GLU:OE2	2.06	0.56
1:3S:178:THR:HA	2:3T:352:LYS:HD2	1.88	0.56
2:3T:236:SER:OG	2:3T:243:ARG:NH2	2.39	0.56
3:3V:15:ARG:HA	3:3V:19:LEU:HG	1.88	0.56
4:3W:22:LEU:H	3:3X:258:ASP:CG	2.08	0.56
4:3W:149:ILE:HG22	4:3W:150:GLU:HG2	1.87	0.56
4:4A:149:ILE:HG22	4:4A:150:GLU:HG2	1.87	0.56
4:4C:149:ILE:HG22	4:4C:150:GLU:HG2	1.87	0.56
3:4D:15:ARG:HA	3:4D:19:LEU:HG	1.88	0.56
3:4F:15:ARG:HA	3:4F:19:LEU:HG	1.88	0.56
4:4G:149:ILE:HG22	4:4G:150:GLU:HG2	1.87	0.56
3:4J:148:ASP:OD1	3:4J:151:LYS:HG3	2.05	0.56
3:4J:242:ILE:HG13	3:4J:243:LEU:HD22	1.86	0.56
6:4P:167:ARG:HA	6:4P:170:ASN:HD21	1.71	0.56
8:4X:96:VAL:HG12	8:4X:96:VAL:O	2.05	0.56
9:4Y:399:ALA:O	9:4Y:403:GLU:HG3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:4Z:202:ASP:O	9:4Z:206:ARG:HG2	2.06	0.56
9:4Z:233:ARG:O	9:4Z:236:GLU:HG3	2.04	0.56
9:4Z:273:ASP:O	9:4Z:277:LYS:HG2	2.05	0.56
10:5A:374:GLN:O	10:5A:378:ASN:ND2	2.37	0.56
10:5B:230:ARG:O	10:5B:234:LEU:HG	2.05	0.56
10:5D:211:ARG:HH12	10:5D:215:ALA:HB2	1.70	0.56
12:5F:107:ASP:OD2	33:7Q:175:ARG:HD3	2.05	0.56
12:5F:314:GLN:NE2	12:7B:57:THR:O	2.38	0.56
15:5O:265:VAL:CG1	15:5O:309:LEU:HD12	2.36	0.56
15:5P:42:ASN:HD22	15:5P:44:ARG:HH12	1.53	0.56
18:5X:102:ASP:N	18:5X:102:ASP:OD1	2.37	0.56
18:6B:5:VAL:O	18:6B:5:VAL:HG12	2.06	0.56
22:6L:177:LEU:CD1	22:6L:252:ASP:OD2	2.53	0.56
22:6O:110:ILE:O	22:6O:113:ARG:NH1	2.35	0.56
24:6T:556:ASP:OD1	24:6T:557:VAL:N	2.39	0.56
24:6U:35:TYR:CE2	24:6U:42:GLU:HB2	2.40	0.56
24:6V:536:ASP:OD1	24:6V:537:GLU:N	2.38	0.56
24:6Z:96:LEU:HD22	24:6Z:188:THR:HG22	1.88	0.56
24:6Z:416:ILE:HG12	24:6Z:509:GLU:OE2	2.06	0.56
12:7B:52:GLU:O	12:7B:56:THR:HG23	2.06	0.56
26:7E:49:PRO:HA	26:7E:55:THR:OG1	2.06	0.56
28:7H:434:TYR:CE2	28:7H:436:SER:HB3	2.39	0.56
29:7I:4:LYS:HD2	29:7I:4:LYS:N	2.05	0.56
29:7J:376:ALA:HB3	29:7J:379:ASN:HD22	1.67	0.56
34:7R:273:LEU:HD12	35:7T:223:PHE:CZ	2.39	0.56
28:7X:434:TYR:CE2	28:7X:436:SER:HB3	2.39	0.56
1:A7:80:PRO:HD2	24:6T:221:ARG:HH12	1.70	0.56
2:E3:33:ASP:OD2	22:6K:131:ARG:NH1	2.38	0.56
1:G2:156:ARG:NH1	1:G2:197:ASP:OD1	2.38	0.56
1:G8:219:THR:N	24:6Z:418:ASP:OD1	2.37	0.56
2:H3:220:GLU:HG2	2:H3:221:ARG:HG3	1.88	0.56
2:H7:179:THR:O	1:H8:350:LYS:HD2	2.05	0.56
1:I0:272:PRO:HB2	1:I0:282:ARG:HH12	1.71	0.56
1:I8:128:ASP:OD1	1:I8:129:CYS:N	2.36	0.56
2:K1:82:THR:HG21	28:7X:421:GLY:HA3	1.87	0.56
1:L2:4:ILE:HB	1:L2:50:TYR:HE1	1.69	0.56
2:L5:119:LEU:HA	2:L5:122:ILE:HG22	1.88	0.56
1:N0:139:LEU:HD12	1:N0:170:VAL:HG12	1.88	0.56
1:N2:86:ARG:HB3	2:O9:283:HIS:HE1	1.71	0.56
2:N5:206:ASN:OD1	41:N6:501:GTP:N2	2.37	0.56
1:N6:20:PHE:HA	1:N6:230:SER:OG	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O9:167:LEU:HG	2:O9:252:ILE:HD11	1.88	0.56
1:P8:68:LEU:HB3	1:P8:96:GLY:HA2	1.86	0.56
2:S1:278:ALA:HA	2:S1:369:ALA:HB2	1.86	0.56
1:S8:1:MET:HA	1:S8:1:MET:CE	2.36	0.56
2:S9:335:ILE:HG23	2:S9:341:ILE:HD11	1.87	0.56
2:T5:90:GLU:HB3	2:T5:121:ARG:NH1	2.20	0.56
2:U3:264:ARG:NH2	2:U3:431:ASP:OD2	2.39	0.56
1:W4:232:VAL:HG22	1:W4:270:PHE:HB2	1.88	0.56
1:X0:287:PRO:HA	1:X0:290:THR:HG22	1.86	0.56
1:X2:113:ILE:HA	1:X2:116:VAL:HG22	1.86	0.56
1:X2:238:CYS:SG	1:X2:316:LEU:HD21	2.45	0.56
1:Z8:113:ILE:HA	1:Z8:116:VAL:HG22	1.87	0.56
2:Z9:70:LEU:HG	2:Z9:145:THR:HG23	1.87	0.56
1:0E:136:CYS:HG	1:0E:167:PHE:HD2	1.54	0.56
2:0L:401:LYS:HD2	1:0M:344:TRP:CD2	2.40	0.56
2:0P:344:VAL:HG13	2:0P:346:TRP:CD1	2.41	0.56
1:1C:127:CYS:SG	1:1C:128:ASP:N	2.79	0.56
2:1D:222:PRO:HD2	1:1E:324:LYS:HE3	1.87	0.56
2:1F:183:GLU:HG3	2:1F:184:PRO:HD3	1.86	0.56
1:1G:35:THR:HG1	1:1G:37:HIS:HE2	1.49	0.56
2:1N:53:PHE:HB3	2:1N:61:HIS:HB3	1.87	0.56
1:1O:215:LEU:HB3	1:1O:217:LEU:CD2	2.35	0.56
2:1Z:387:ILE:HG12	2:1Z:390:ARG:HH22	1.69	0.56
2:1Z:392:ASP:OD2	2:1Z:422:ARG:NH1	2.38	0.56
2:1Z:414:GLU:HG2	2:1Z:416:GLY:H	1.70	0.56
1:2W:306:ARG:NH1	38:8B:51:GLN:OE1	2.38	0.56
1:2Y:334:GLN:HE22	1:2Y:348:ASN:H	1.53	0.56
1:3A:211:CYS:HA	1:3A:215:LEU:HB2	1.86	0.56
1:3M:285:THR:OG1	1:3M:287:PRO:HD2	2.05	0.56
1:3Q:389:PHE:O	1:3Q:392:LYS:NZ	2.32	0.56
2:3R:406:HIS:HA	2:3R:409:VAL:HG22	1.86	0.56
2:3T:104:ALA:H	2:3T:408:TYR:HE2	1.51	0.56
3:3X:15:ARG:HA	3:3X:19:LEU:HG	1.88	0.56
3:4B:15:ARG:HA	3:4B:19:LEU:HG	1.88	0.56
4:4E:35:LYS:NZ	3:4F:254:LYS:O	2.30	0.56
4:4E:149:ILE:HG22	4:4E:150:GLU:HG2	1.87	0.56
3:4H:15:ARG:HA	3:4H:19:LEU:HG	1.88	0.56
4:4I:149:ILE:HG22	4:4I:150:GLU:HG2	1.87	0.56
5:4L:287:LYS:O	5:4L:290:GLN:HB2	2.05	0.56
7:4R:166:ALA:HB1	11:5E:84:SER:N	2.20	0.56
7:4U:101:ASP:N	7:4U:101:ASP:OD1	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:4X:111:GLY:HA2	8:4X:114:ARG:HH21	1.70	0.56
15:5O:102:ALA:HB2	15:5O:204:ALA:HB1	1.87	0.56
19:6E:41:ALA:HB2	19:6E:61:ASP:HB2	1.86	0.56
19:6E:92:ARG:CD	19:6E:99:ARG:NE	2.63	0.56
22:6L:204:PHE:HA	22:6L:227:TYR:OH	2.05	0.56
22:6O:291:GLU:HB3	22:6O:347:CYS:SG	2.45	0.56
24:6X:117:ARG:NH1	24:6X:134:GLU:OE2	2.39	0.56
24:6X:514:TYR:CA	24:6X:517:LEU:HD13	2.31	0.56
24:7A:96:LEU:HD22	24:7A:188:THR:HG22	1.87	0.56
27:7G:49:HIS:O	27:7G:53:VAL:HG22	2.05	0.56
32:7P:128:ARG:HD2	32:7P:132:SER:OG	2.05	0.56
34:7R:93:GLU:HA	34:7R:96:LYS:HG2	1.87	0.56
2:B9:279:GLU:OE2	18:6C:44:HIS:CE1	2.59	0.56
1:F6:218:THR:HG21	24:6T:430:PRO:HA	1.87	0.56
2:G1:381:SER:OG	2:G1:382:THR:N	2.38	0.56
2:G9:312:TYR:HD1	2:G9:381:SER:HB2	1.70	0.56
1:H2:285:THR:HG23	1:H2:287:PRO:HD2	1.86	0.56
1:I2:4:ILE:HB	1:I2:50:TYR:HE1	1.70	0.56
1:I4:50:TYR:CE2	1:I4:241:ARG:HD3	2.40	0.56
2:I5:173:PRO:HB3	2:I5:183:GLU:CD	2.26	0.56
2:J1:312:TYR:HB2	2:J1:343:PHE:HD1	1.70	0.56
1:J6:135:VAL:HG21	1:J6:152:ILE:HD11	1.88	0.56
1:J8:52:ASN:OD1	1:J8:62:ARG:NH2	2.39	0.56
1:L6:317:PHE:HE2	1:L6:326:VAL:HG13	1.69	0.56
2:L9:191:THR:HA	2:L9:194:LEU:HB3	1.87	0.56
1:M8:3:GLU:HB2	1:M8:130:LEU:HA	1.88	0.56
2:M9:274:PRO:HB2	2:M9:276:ILE:HG12	1.87	0.56
2:N5:276:ILE:HG23	2:N5:280:LYS:HB2	1.88	0.56
2:N5:405:VAL:HG13	2:N5:418:PHE:HE2	1.69	0.56
1:O4:2:ARG:HB3	1:O4:131:GLN:HB2	1.87	0.56
2:O5:9:ILE:HG22	2:O5:146:GLY:HA2	1.87	0.56
1:O8:190:HIS:CD2	1:O8:411:ALA:HA	2.41	0.56
1:P4:213:ARG:HE	1:P4:297:LYS:CE	2.18	0.56
1:P4:391:ARG:HB2	2:P5:346:TRP:CZ3	2.41	0.56
2:P9:88:HIS:HB3	2:P9:90:GLU:H	1.70	0.56
1:R0:424:GLN:HE22	17:5S:104:PHE:H	1.53	0.56
2:R3:387:ILE:HG12	2:R3:390:ARG:HH22	1.71	0.56
1:R8:69:GLU:C	1:R8:92:PHE:HZ	2.08	0.56
2:R9:306:ASP:HB3	2:R9:309:HIS:HD2	1.69	0.56
1:S2:377:MET:HB3	1:S2:380:ARG:HH21	1.69	0.56
2:S7:240:ALA:HB1	2:S7:356:ASN:HD22	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S9:104:ALA:CB	2:S9:413:MET:HG3	2.35	0.56
2:T7:275:ILE:HG13	2:T7:368:LEU:HD21	1.86	0.56
1:T8:139:LEU:HD12	1:T8:170:VAL:HG12	1.87	0.56
2:U7:75:VAL:HG12	2:U7:79:ARG:HE	1.69	0.56
1:V0:68:LEU:HB3	1:V0:96:GLY:HA2	1.86	0.56
1:V6:3:GLU:HB3	1:V6:130:LEU:HA	1.88	0.56
1:V6:22:GLU:HG2	1:V6:81:TYR:HB2	1.85	0.56
1:V6:199:CYS:HG	1:V6:265:PHE:HD1	1.53	0.56
1:W0:33:THR:HG23	1:W0:35:THR:HG23	1.88	0.56
1:W0:177:ASP:O	2:W1:352:LYS:HA	2.06	0.56
2:X3:399:TYR:O	2:X3:402:ARG:NH1	2.39	0.56
2:X5:109:THR:OG1	2:X5:411:GLU:OE2	2.15	0.56
2:Z1:31:GLN:HE21	2:Z1:37:PRO:HG3	1.71	0.56
2:Z3:278:ALA:HA	2:Z3:369:ALA:HB2	1.88	0.56
1:0A:83:GLN:O	1:0Q:281:TYR:OH	2.16	0.56
2:0L:194:LEU:O	2:0L:198:THR:HG22	2.04	0.56
2:0R:26:LEU:HD23	2:0R:363:VAL:HG12	1.88	0.56
1:0U:208:TYR:CE1	1:0U:225:LEU:HD21	2.40	0.56
2:0V:222:PRO:HD2	1:0W:324:LYS:HE3	1.86	0.56
2:1D:102:ASN:HD21	1:1E:255:VAL:HG21	1.70	0.56
1:1S:309:ARG:NH1	1:1S:339:SER:O	2.39	0.56
2:1X:338:LYS:HG2	2:1X:340:THR:HG22	1.86	0.56
1:2E:418:LEU:HG	1:2E:422:TYR:HE2	1.70	0.56
2:2L:274:PRO:HB2	2:2L:276:ILE:HG12	1.86	0.56
2:2Z:27:GLU:OE1	2:2Z:243:ARG:NH1	2.39	0.56
2:3H:278:ALA:HA	2:3H:369:ALA:HB2	1.87	0.56
1:3I:391:ARG:HD3	2:3J:346:TRP:CZ2	2.40	0.56
1:3O:113:ILE:HA	1:3O:116:VAL:HG12	1.88	0.56
1:3S:334:GLN:HE22	1:3S:348:ASN:H	1.51	0.56
3:3Z:15:ARG:HA	3:3Z:19:LEU:HG	1.88	0.56
6:4N:463:LEU:HD12	6:4N:487:ILE:HD11	1.85	0.56
7:4R:95:HIS:HD1	7:4R:95:HIS:H	1.54	0.56
12:5F:2:LEU:HD12	12:5F:3:PRO:HD2	1.87	0.56
12:5F:300:PRO:HG2	12:7B:13:PRO:HB3	1.88	0.56
14:5N:167:GLY:O	14:5N:196:VAL:HG13	2.05	0.56
17:5U:188:LYS:O	17:5U:192:VAL:HG23	2.05	0.56
18:5X:125:ARG:NH2	18:5X:204:LEU:O	2.38	0.56
19:6E:20:LEU:CD2	19:6E:28:ARG:HH21	2.19	0.56
20:6F:329:SER:HA	20:6F:332:GLU:OE2	2.05	0.56
22:6P:269:GLU:HA	22:6P:272:ARG:NE	2.13	0.56
24:6U:35:TYR:CD2	24:6U:42:GLU:HB2	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:7R:104:ASP:O	34:7R:108:LEU:HG	2.05	0.56
34:7S:263:GLU:O	34:7S:267:VAL:HG23	2.05	0.56
36:7V:34:ILE:HB	36:7V:70:ILE:HD11	1.86	0.56
36:7V:54:GLU:HG3	36:7V:55:VAL:N	2.20	0.56
38:8C:201:LEU:O	38:8C:201:LEU:HD13	2.05	0.56
2:C1:2:ARG:HH12	24:6Z:243:LYS:NZ	2.03	0.56
2:F3:33:ASP:OD2	22:6P:131:ARG:NH1	2.37	0.56
2:G3:417:GLU:HA	2:G3:420:GLU:HG2	1.88	0.56
1:G6:216:LYS:O	24:6Y:422:ASN:ND2	2.32	0.56
2:G9:282:TYR:OH	22:6P:134:ASN:ND2	2.39	0.56
2:I1:301:MET:HE1	2:I1:307:PRO:HD3	1.88	0.56
2:I1:326:LYS:HG3	2:I1:327:ASP:N	2.21	0.56
2:I3:344:VAL:HG22	2:I3:346:TRP:HE3	1.70	0.56
2:J1:301:MET:HE1	2:J1:307:PRO:HD3	1.86	0.56
2:J5:189:LEU:HD11	2:J5:418:PHE:HE1	1.71	0.56
2:L7:115:VAL:HG23	2:L7:153:LEU:HD22	1.88	0.56
1:M2:309:ARG:NH1	1:M2:341:PHE:O	2.39	0.56
2:M7:9:ILE:HG22	2:M7:146:GLY:HA2	1.86	0.56
2:M9:98:ASP:OD1	2:M9:99:ALA:N	2.39	0.56
2:M9:250:VAL:HG11	2:M9:352:LYS:HE3	1.88	0.56
2:N5:137:VAL:HG22	2:N5:168:GLY:HA2	1.87	0.56
1:O0:101:TRP:CE3	1:O0:187:LEU:HD23	2.39	0.56
2:O1:280:LYS:HA	2:O1:283:HIS:HB3	1.87	0.56
2:O5:14:ILE:HD11	2:O5:74:VAL:HG13	1.86	0.56
1:O6:245:GLN:HE21	32:7P:115:THR:HG21	1.71	0.56
1:P4:166:THR:OG1	1:P4:199:CYS:SG	2.62	0.56
1:P4:177:ASP:O	2:P5:352:LYS:HA	2.06	0.56
2:R1:56:THR:HA	2:S7:285:GLN:HB3	1.87	0.56
2:R1:267:PHE:HB2	2:R1:384:ILE:HD12	1.86	0.56
1:R6:208:TYR:CE1	1:R6:225:LEU:HD11	2.41	0.56
1:S0:248:ALA:HA	1:S0:252:LYS:HD2	1.87	0.56
1:S4:173:PRO:HD3	1:S4:380:ARG:HD2	1.87	0.56
1:S6:391:ARG:HH22	2:S7:435:VAL:HA	1.71	0.56
1:S8:94:GLN:HB3	24:6W:35:TYR:HE1	1.67	0.56
1:S8:107:THR:OG1	1:S8:108:GLU:OE1	2.22	0.56
2:T1:69:ASP:OD1	2:T1:70:LEU:N	2.39	0.56
1:T2:320:ARG:HH12	12:5F:177:THR:HA	1.70	0.56
1:T2:375:GLN:HB3	1:T2:422:TYR:CD2	2.31	0.56
1:T8:292:GLN:HG2	1:T8:298:ASN:ND2	2.21	0.56
2:U1:26:LEU:HD21	2:U1:363:VAL:HG12	1.87	0.56
1:U4:178:THR:HG23	1:U4:181:GLU:HG3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U6:113:ILE:HA	1:U6:116:VAL:HG22	1.86	0.56
2:U7:11:GLN:OE1	2:U7:15:GLN:NE2	2.38	0.56
1:V6:5:VAL:HG12	1:V6:62:ARG:HD3	1.88	0.56
1:W0:178:THR:OG1	2:W1:258:ASN:ND2	2.38	0.56
1:W2:248:ALA:HA	1:W2:252:LYS:HD2	1.88	0.56
2:W9:5:ILE:HD11	2:W9:122:ILE:HG13	1.88	0.56
2:W9:70:LEU:HD11	2:W9:110:ILE:HG21	1.88	0.56
1:X4:101:TRP:CE3	1:X4:187:LEU:HD23	2.40	0.56
1:Z0:372:THR:HG21	1:Z0:426:GLN:HB2	1.88	0.56
2:Z9:99:ALA:HA	2:Z9:105:ARG:HD3	1.87	0.56
2:0B:11:GLN:OE1	2:0B:15:GLN:NE2	2.39	0.56
2:0L:76:ASP:OD1	2:0L:79:ARG:HD2	2.06	0.56
1:0U:404:ASP:HB3	1:0U:406:MET:SD	2.45	0.56
1:1A:235:GLY:HA3	1:1A:366:THR:HG21	1.86	0.56
1:1E:3:GLU:HG2	1:1E:127:CYS:SG	2.45	0.56
2:1F:116:ASP:N	2:1F:116:ASP:OD1	2.38	0.56
2:1Z:239:THR:HG23	2:1Z:243:ARG:HE	1.71	0.56
2:2H:27:GLU:OE1	2:2H:243:ARG:NH1	2.35	0.56
1:2I:248:ALA:HA	1:2I:252:LYS:HD2	1.88	0.56
1:2Q:332:ASN:HD21	38:7Z:1:MET:HA	1.70	0.56
2:2R:214:ARG:NE	2:2R:220:GLU:OE2	2.39	0.56
1:2S:48:ASN:ND2	23:6Q:75:GLY:O	2.38	0.56
2:2T:90:GLU:HG3	2:2T:121:ARG:NH1	2.20	0.56
2:3D:334:THR:HG21	38:8D:111:THR:HG22	1.88	0.56
2:3P:51:THR:HG21	2:3P:243:ARG:HG2	1.87	0.56
2:3P:100:ALA:HA	1:3Q:252:LYS:HE2	1.87	0.56
2:3R:306:ASP:HB3	2:3R:309:HIS:HD2	1.70	0.56
2:3T:12:ALA:O	2:3T:16:VAL:HG13	2.05	0.56
2:3T:230:LEU:HD12	2:3T:231:ILE:HD13	1.86	0.56
14:5N:378:ILE:HG22	23:6S:55:VAL:HB	1.88	0.56
22:6O:186:ARG:O	22:6O:189:LYS:HB2	2.05	0.56
31:7M:66:HIS:HD2	31:7M:76:THR:HA	1.70	0.56
1:7:78:SER:OG	24:6W:149:LYS:N	2.39	0.56
1:G2:2:ARG:HE	1:G2:240:LEU:HD22	1.71	0.56
2:G3:74:VAL:O	2:G3:78:VAL:HG23	2.05	0.56
1:G4:54:ALA:HB3	1:G4:58:ARG:HB3	1.86	0.56
1:I0:139:LEU:HD12	1:I0:170:VAL:HG12	1.88	0.56
2:I9:217:LEU:HB3	2:I9:219:ILE:HD12	1.86	0.56
1:J2:88:ASP:O	16:5Q:186:HIS:HD2	1.88	0.56
1:J4:259:PRO:HG2	1:J4:263:LEU:HD23	1.86	0.56
1:J6:309:ARG:H	1:J6:372:THR:HG22	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J7:88:HIS:HD2	2:L3:283:HIS:HB3	1.71	0.56
2:J9:133:GLN:HE22	2:J9:242:LEU:HD21	1.70	0.56
2:J9:189:LEU:HD11	2:J9:418:PHE:HE1	1.70	0.56
2:K7:69:ASP:OD1	2:K7:71:GLU:N	2.35	0.56
1:L0:58:ARG:N	30:7K:118:TYR:OH	2.38	0.56
2:L3:319:TYR:HB3	2:L3:323:VAL:HG21	1.87	0.56
2:M7:133:GLN:HB3	2:M7:252:ILE:HG21	1.88	0.56
2:M9:280:LYS:NZ	29:7J:320:PRO:CB	2.68	0.56
1:N6:248:ALA:HA	1:N6:252:LYS:HD2	1.87	0.56
2:O5:221:ARG:HD2	32:7P:136:HIS:ND1	2.21	0.56
2:O5:305:CYS:HB3	2:O5:387:ILE:HD11	1.87	0.56
1:O6:131:GLN:HE21	1:O6:250:LEU:HB2	1.71	0.56
2:O7:223:THR:HG23	2:O7:225:THR:H	1.71	0.56
2:P9:5:ILE:HD11	2:P9:135:PHE:CE1	2.41	0.56
2:Q3:5:ILE:HG22	2:Q3:64:ARG:HB3	1.87	0.56
1:R4:70:PRO:HA	1:R4:92:PHE:CZ	2.41	0.56
1:R4:180:VAL:HG22	2:R5:258:ASN:HD21	1.70	0.56
1:S2:49:VAL:HG11	1:S2:241:ARG:HG2	1.87	0.56
1:S6:50:TYR:CE2	1:S6:241:ARG:HD3	2.41	0.56
1:T0:207:LEU:HB3	1:T0:225:LEU:HD22	1.87	0.56
2:U3:56:THR:HA	2:V9:285:GLN:HB2	1.87	0.56
1:V0:6:HIS:HE2	1:V0:136:CYS:HG	1.54	0.56
2:V1:88:HIS:HB2	2:W7:283:HIS:HB3	1.88	0.56
1:V4:249:ASP:H	1:V4:252:LYS:HD2	1.71	0.56
2:X9:254:GLU:HB3	2:X9:352:LYS:HE2	1.87	0.56
1:Y8:151:LEU:O	1:Y8:155:ILE:HG12	2.05	0.56
1:Z4:3:GLU:HB2	1:Z4:130:LEU:HD12	1.88	0.56
2:Z7:12:ALA:HB2	41:Z7:501:GTP:C8	2.41	0.56
1:Z8:151:LEU:O	1:Z8:155:ILE:HG12	2.06	0.56
2:Z9:5:ILE:HG21	2:Z9:122:ILE:HD11	1.88	0.56
1:0E:309:ARG:NH1	1:0E:343:GLU:OE1	2.38	0.56
1:0G:54:ALA:HB3	1:0G:58:ARG:HB3	1.87	0.56
2:0N:194:LEU:O	2:0N:198:THR:HG22	2.04	0.56
1:0U:104:GLY:HA2	1:0U:147:MET:HE3	1.88	0.56
2:0X:353:CYS:SG	2:0X:354:GLY:N	2.78	0.56
2:1F:198:THR:HG21	2:1F:201:ALA:HB2	1.86	0.56
1:1M:165:LEU:HG	1:1M:250:LEU:HD11	1.87	0.56
2:1R:195:LEU:HD21	2:1R:264:ARG:HD2	1.87	0.56
2:1T:287:SER:OG	2:1T:288:VAL:N	2.39	0.56
2:1V:224:TYR:HD1	2:1V:227:LEU:HD12	1.69	0.56
2:2B:176:GLN:HE22	2:2B:304:LYS:HE2	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2L:413:MET:HB3	2:2L:417:GLU:OE1	2.06	0.56
2:2N:101:ASN:HD22	2:2N:143:GLY:HA2	1.69	0.56
2:2P:358:GLN:NE2	38:8A:212:PRO:HB2	2.12	0.56
1:2Q:320:ARG:NH2	38:8A:198:THR:CB	2.68	0.56
2:2T:98:ASP:OD1	2:2T:99:ALA:N	2.39	0.56
1:2W:66:MET:SD	1:2W:147:MET:HG2	2.46	0.56
2:2X:214:ARG:NH1	38:8B:18:VAL:HA	2.21	0.56
2:3B:22:GLU:CD	38:8D:203:PHE:HD1	2.08	0.56
2:3F:417:GLU:HA	2:3F:420:GLU:HG2	1.86	0.56
1:3G:135:VAL:HG11	1:3G:152:ILE:HD11	1.88	0.56
2:3H:251:ASP:OD2	2:3H:254:GLU:HG2	2.05	0.56
1:3K:133:PHE:HZ	1:3K:159:TYR:HD2	1.53	0.56
1:3M:276:ARG:HG2	38:8C:226:ARG:HH12	1.69	0.56
10:5C:321:LYS:O	10:5C:324:GLU:HG3	2.05	0.56
14:5L:167:GLY:O	14:5L:196:VAL:HG13	2.06	0.56
14:5M:167:GLY:O	14:5M:196:VAL:HG13	2.06	0.56
14:5N:37:THR:HG22	14:5N:595:SER:HB3	1.88	0.56
18:5Y:102:ASP:OD1	18:5Y:102:ASP:N	2.37	0.56
18:5Y:125:ARG:NH2	18:5Y:204:LEU:O	2.38	0.56
18:6D:102:ASP:OD1	18:6D:102:ASP:N	2.37	0.56
22:6J:54:ARG:HG3	24:6U:285:MET:HG2	1.87	0.56
24:6T:278:VAL:HG13	24:6T:369:HIS:CD2	2.41	0.56
24:6U:452:MET:HA	24:6U:530:PHE:HA	1.88	0.56
26:7D:84:ALA:O	26:7D:88:THR:OG1	2.23	0.56
29:7J:292:GLN:HG2	30:7K:19:GLN:HE21	1.71	0.56
31:7N:104:LYS:HG3	31:7N:107:ASP:HB2	1.87	0.56
34:7S:211:ARG:O	34:7S:214:LEU:HG	2.06	0.56
1:B3:144:GLY:N	39:B3:501:GDP:O2B	2.38	0.56
1:B5:276:ARG:NH2	24:6X:210:VAL:HG21	2.21	0.56
2:B7:84:ARG:NH2	18:6B:210:GLU:OE2	2.18	0.56
2:C5:367:ASP:OD1	18:5X:181:GLN:NE2	2.39	0.56
1:G2:2:ARG:HB3	1:G2:131:GLN:HB2	1.88	0.56
2:G5:205:ASP:OD1	2:G5:206:ASN:N	2.39	0.56
1:G8:334:GLN:NE2	1:G8:348:ASN:H	2.02	0.56
2:H1:241:SER:OG	2:H1:250:VAL:N	2.38	0.56
2:H5:417:GLU:HA	2:H5:420:GLU:HG2	1.88	0.56
2:H7:195:LEU:HD21	2:H7:264:ARG:HD2	1.88	0.56
2:I3:379:SER:OG	2:I3:380:ASN:N	2.37	0.56
1:I8:350:LYS:NZ	1:I8:351:SER:O	2.39	0.56
2:I9:145:THR:OG1	41:J0:501:GTP:O1B	2.24	0.56
2:K1:259:LEU:HD23	2:K1:268:MET:HG2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K7:198:THR:HG21	2:K7:201:ALA:HB2	1.87	0.56
2:N1:333:ALA:O	2:N1:337:THR:HG23	2.06	0.56
1:N6:193:VAL:HG13	1:N6:194:GLU:HG3	1.86	0.56
2:O9:53:PHE:HB3	2:O9:61:HIS:HB3	1.87	0.56
1:Q0:287:PRO:HA	1:Q0:290:THR:HG22	1.87	0.56
2:Q5:413:MET:HB3	2:Q5:417:GLU:OE2	2.05	0.56
1:S0:71:GLY:HA2	24:6Z:29:LYS:HD3	1.87	0.56
2:S1:91:GLN:HG2	2:S1:121:ARG:HH21	1.70	0.56
1:S2:207:LEU:HB3	1:S2:225:LEU:HD22	1.86	0.56
2:S7:119:LEU:HD11	2:S7:156:ARG:HD3	1.86	0.56
1:T8:190:HIS:NE2	1:T8:414:ASN:OD1	2.39	0.56
1:U2:3:GLU:HB2	1:U2:130:LEU:HA	1.87	0.56
2:U7:191:THR:HA	2:U7:194:LEU:HB3	1.87	0.56
2:U9:286:LEU:HD11	2:U9:291:ILE:HG23	1.87	0.56
2:V3:274:PRO:HG3	2:V3:286:LEU:HD21	1.88	0.56
2:V7:109:THR:OG1	2:V7:411:GLU:OE2	2.21	0.56
2:V9:56:THR:HG21	2:V9:62:VAL:HG13	1.87	0.56
2:W1:88:HIS:HB3	2:W1:91:GLN:CG	2.35	0.56
1:X2:240:LEU:HD11	1:X2:250:LEU:HD11	1.88	0.56
2:Y1:90:GLU:H	2:Z7:283:HIS:HE1	1.52	0.56
1:Y2:3:GLU:HB2	1:Y2:130:LEU:HA	1.86	0.56
2:Z7:3:GLU:HG3	2:Z7:51:THR:HA	1.87	0.56
2:0F:145:THR:OG1	41:0F:501:GTP:O1B	2.24	0.56
2:0H:69:ASP:OD1	2:0H:70:LEU:N	2.37	0.56
1:0I:67:ASP:OD2	1:0I:72:THR:OG1	2.12	0.56
1:0M:389:PHE:O	1:0M:392:LYS:NZ	2.32	0.56
2:0N:50:ASN:O	2:0N:64:ARG:NH2	2.37	0.56
2:0N:278:ALA:HA	2:0N:369:ALA:HB2	1.88	0.56
2:0N:352:LYS:NZ	2:0N:353:CYS:O	2.39	0.56
1:1C:72:THR:O	1:1C:76:VAL:HG23	2.06	0.56
1:1C:215:LEU:HB3	1:1C:217:LEU:HG	1.88	0.56
2:1P:90:GLU:HG2	2:1P:121:ARG:NH1	2.20	0.56
1:1U:392:LYS:HD2	1:1U:395:LEU:HD22	1.87	0.56
1:2A:52:ASN:OD1	1:2A:62:ARG:NH2	2.38	0.56
1:2C:12:CYS:SG	1:2C:13:GLY:N	2.78	0.56
1:2I:34:GLY:O	1:2I:58:ARG:HA	2.05	0.56
2:2L:279:GLU:HA	2:2L:279:GLU:OE2	2.04	0.56
1:2U:299:MET:O	38:8B:105:ARG:NH2	2.39	0.56
1:3A:274:THR:CG2	1:3A:282:ARG:HH11	2.19	0.56
2:3F:220:GLU:HG2	38:8A:177:HIS:CB	2.32	0.56
2:3H:392:ASP:OD2	2:3H:422:ARG:NH1	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3S:22:GLU:HG2	1:3S:81:TYR:HB2	1.87	0.56
1:3S:329:GLN:O	1:3S:333:VAL:HG23	2.06	0.56
2:3T:102:ASN:HB3	2:3T:105:ARG:HB3	1.88	0.56
2:3T:287:SER:N	2:3T:290:GLU:OE2	2.38	0.56
3:3V:153:ASP:OD1	3:3V:156:HIS:N	2.37	0.56
3:4H:153:ASP:OD1	3:4H:156:HIS:N	2.37	0.56
5:4M:178:GLU:O	5:4M:182:VAL:HG23	2.06	0.56
8:4V:472:VAL:HG22	8:4V:473:LYS:HG3	1.88	0.56
11:5E:171:ASP:OD1	11:5E:172:GLY:N	2.37	0.56
14:5L:37:THR:HG22	14:5L:595:SER:HB3	1.88	0.56
18:5Z:102:ASP:N	18:5Z:102:ASP:OD1	2.37	0.56
18:6B:102:ASP:N	18:6B:102:ASP:OD1	2.37	0.56
18:6D:125:ARG:NH2	18:6D:204:LEU:O	2.38	0.56
24:6T:469:PHE:HB2	24:6T:483:PHE:O	2.06	0.56
24:6U:117:ARG:NH1	24:6U:134:GLU:OE2	2.39	0.56
26:7E:84:ALA:O	26:7E:88:THR:OG1	2.23	0.56
29:7J:110:THR:O	29:7J:114:GLU:HG3	2.05	0.56
31:7M:80:PRO:CD	31:7M:83:THR:OG1	2.45	0.56
36:7W:54:GLU:HG3	36:7W:55:VAL:N	2.20	0.56
2:A2:42:ILE:HD12	24:6Y:93:ARG:HH21	1.38	0.56
2:A2:221:ARG:HB2	26:7F:77:ILE:O	2.06	0.56
1:D0:204:ASN:HD21	39:D0:501:GDP:HN22	1.52	0.56
1:G6:186:THR:HG22	1:G6:411:ALA:HB1	1.88	0.56
2:H5:278:ALA:HA	2:H5:369:ALA:HB2	1.87	0.56
2:I5:195:LEU:HD21	2:I5:264:ARG:HD2	1.88	0.56
2:I5:413:MET:HG3	2:I5:414:GLU:H	1.71	0.56
2:I9:417:GLU:HA	2:I9:420:GLU:HG2	1.88	0.56
1:J8:211:CYS:HA	1:J8:215:LEU:HB2	1.87	0.56
2:J9:88:HIS:CD2	2:L5:283:HIS:HA	2.41	0.56
2:K9:119:LEU:HA	2:K9:122:ILE:HG22	1.88	0.56
2:L1:102:ASN:HD21	2:L1:411:GLU:HG3	1.70	0.56
1:L4:31:ASP:OD1	1:L4:35:THR:N	2.39	0.56
2:N3:9:ILE:HD12	2:N3:150:GLY:HA3	1.87	0.56
2:O1:324:VAL:HG12	2:O1:326:LYS:H	1.70	0.56
1:O2:177:ASP:O	2:O3:352:LYS:HA	2.06	0.56
2:O3:346:TRP:CD1	2:O3:346:TRP:C	2.78	0.56
1:O4:52:ASN:OD1	1:O4:62:ARG:NH2	2.39	0.56
2:O7:254:GLU:HB3	2:O7:352:LYS:HE2	1.87	0.56
1:P4:285:THR:HG22	1:P4:287:PRO:HD2	1.88	0.56
1:P6:49:VAL:HG11	1:P6:241:ARG:HG2	1.88	0.56
2:P7:88:HIS:CG	2:R3:283:HIS:HB2	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P8:72:THR:O	1:P8:76:VAL:HG23	2.05	0.56
1:Q0:252:LYS:HA	1:Q0:255:VAL:HG12	1.88	0.56
1:Q4:177:ASP:O	2:Q5:352:LYS:HA	2.06	0.56
1:Q8:395:LEU:O	1:Q8:399:THR:HG23	2.06	0.56
1:S2:113:ILE:HA	1:S2:116:VAL:HG12	1.88	0.56
2:S7:81:GLY:O	2:S7:84:ARG:NH1	2.39	0.56
2:S9:272:TYR:HB3	2:S9:275:ILE:HD11	1.88	0.56
1:T0:317:PHE:HB3	1:T0:321:MET:SD	2.46	0.56
2:T3:14:ILE:HD11	2:T3:74:VAL:HG13	1.88	0.56
2:U1:135:PHE:HB2	2:U1:166:LYS:HG2	1.87	0.56
2:U1:164:LYS:O	2:U1:166:LYS:NZ	2.39	0.56
2:U7:79:ARG:NH1	2:U7:94:SER:OG	2.39	0.56
2:V7:417:GLU:HA	2:V7:420:GLU:HG2	1.88	0.56
1:V8:3:GLU:HB2	1:V8:130:LEU:HA	1.88	0.56
1:W0:140:GLY:HA3	1:W0:181:GLU:OE1	2.06	0.56
2:W3:264:ARG:NH2	2:W3:431:ASP:OD2	2.39	0.56
2:W7:11:GLN:OE1	2:W7:15:GLN:NE2	2.39	0.56
1:X0:263:LEU:HG	1:X0:422:TYR:CE1	2.41	0.56
1:X6:58:ARG:HH11	1:X6:84:ILE:HA	1.69	0.56
2:X7:286:LEU:O	2:X7:373:ARG:NH1	2.38	0.56
2:X9:167:LEU:HD13	2:X9:200:VAL:HB	1.87	0.56
1:Y4:190:HIS:CD2	1:Y4:411:ALA:HA	2.41	0.56
1:Y4:309:ARG:NH1	1:Y4:339:SER:O	2.39	0.56
2:Z5:239:THR:HG23	2:Z5:243:ARG:HE	1.71	0.56
2:0B:62:VAL:HG22	2:0B:88:HIS:CE1	2.41	0.56
2:0F:384:ILE:HD12	2:0F:384:ILE:H	1.71	0.56
1:0M:121:ARG:NH2	1:0M:158:GLU:OE2	2.36	0.56
2:1F:290:GLU:HA	2:1F:293:ASN:HD22	1.71	0.56
1:1Q:211:CYS:HA	1:1Q:215:LEU:HB2	1.88	0.56
1:1S:186:THR:HG22	1:1S:411:ALA:HB1	1.88	0.56
1:1U:332:ASN:HD21	1:1U:336:LYS:HE3	1.71	0.56
2:2D:129:CYS:SG	2:2D:130:THR:N	2.79	0.56
1:2E:268:VAL:HG23	1:2E:300:MET:HB2	1.88	0.56
1:2M:165:LEU:HD23	1:2M:250:LEU:HD21	1.88	0.56
1:2M:337:ASN:HB3	1:2M:340:TYR:HD2	1.69	0.56
2:2P:63:PRO:HB2	2:2P:65:CYS:SG	2.45	0.56
2:2R:406:HIS:HA	2:2R:409:VAL:HG22	1.88	0.56
1:2S:213:ARG:HD2	38:8A:47:PHE:CE1	2.41	0.56
2:2T:122:ILE:HA	2:2T:125:LEU:HD12	1.88	0.56
2:3D:121:ARG:HA	2:3D:124:LYS:HZ2	1.70	0.56
1:3I:244:GLY:H	1:3I:247:ASN:HD21	1.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4D:153:ASP:OD1	3:4D:156:HIS:N	2.37	0.56
6:4O:219:GLU:OE2	6:4O:222:ARG:NH2	2.37	0.56
10:5B:244:ARG:O	10:5B:247:GLU:HG3	2.05	0.56
10:5C:331:MET:HE1	10:5C:334:ARG:HH21	1.70	0.56
10:5D:232:GLU:HA	10:5D:235:ARG:NE	2.21	0.56
14:5L:555:GLU:O	14:5L:573:GLY:N	2.36	0.56
14:5M:37:THR:HG22	14:5M:595:SER:HB3	1.88	0.56
14:5M:124:GLN:HG3	38:8C:232:PHE:HD1	1.71	0.56
14:5M:555:GLU:O	14:5M:573:GLY:N	2.36	0.56
18:5Z:125:ARG:NH2	18:5Z:204:LEU:O	2.38	0.56
18:6A:102:ASP:N	18:6A:102:ASP:OD1	2.37	0.56
22:6N:137:GLU:HA	22:6N:140:VAL:HG22	1.88	0.56
24:6Y:124:TYR:CE2	24:6Y:150:ARG:HG3	2.41	0.56
31:7N:43:VAL:O	31:7N:47:ARG:HG2	2.06	0.56
36:7W:34:ILE:HB	36:7W:70:ILE:HD11	1.86	0.56
38:7Z:36:GLU:OE1	38:7Z:37:TYR:N	2.39	0.56
38:8B:158:MET:HA	38:8B:158:MET:HE3	1.88	0.56
1:1:420:SER:OG	3:3V:209:ARG:NH1	2.38	0.56
1:A5:281:TYR:OH	1:T8:83:GLN:O	2.07	0.56
2:E9:81:GLY:HA3	22:6N:116:TYR:HE2	1.70	0.56
1:G6:31:ASP:OD2	1:G6:33:THR:OG1	2.23	0.56
1:J8:249:ASP:O	1:J8:253:LEU:HG	2.06	0.56
2:K5:88:HIS:HB3	2:M1:283:HIS:CE1	2.41	0.56
2:L1:56:THR:HG23	2:L1:60:LYS:HB3	1.88	0.56
2:L1:274:PRO:HB2	2:L1:276:ILE:HG12	1.88	0.56
1:L2:135:VAL:HG21	1:L2:152:ILE:HD11	1.87	0.56
1:M0:404:ASP:OD1	1:M0:405:GLU:N	2.39	0.56
2:N1:222:PRO:HD2	1:N2:324:LYS:HE3	1.87	0.56
1:N2:211:CYS:HA	1:N2:215:LEU:HB2	1.88	0.56
1:N6:10:GLY:O	1:N6:14:ASN:ND2	2.39	0.56
1:N6:396:HIS:HA	1:N6:399:THR:HG22	1.87	0.56
2:O1:221:ARG:HD2	1:O2:325:GLU:OE2	2.05	0.56
2:O9:98:ASP:OD1	2:O9:99:ALA:N	2.39	0.56
2:P7:296:PHE:CE2	2:P7:335:ILE:HG21	2.41	0.56
1:Q2:5:VAL:HG23	1:Q2:62:ARG:HG2	1.88	0.56
2:Q9:3:GLU:HB2	2:Q9:129:CYS:SG	2.45	0.56
2:R3:305:CYS:HB3	2:R3:387:ILE:HD11	1.88	0.56
1:R4:121:ARG:NH2	1:R4:158:GLU:OE2	2.39	0.56
1:R6:69:GLU:HG3	1:R6:71:GLY:H	1.71	0.56
1:S0:193:VAL:HG23	1:S0:194:GLU:HG2	1.88	0.56
1:S8:156:ARG:HH22	3:3Z:91:LYS:HE2	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S8:194:GLU:HB3	3:3Z:87:GLY:HA3	1.88	0.56
1:T0:153:SER:O	1:T0:157:GLU:HG2	2.05	0.56
2:T1:183:GLU:CD	2:T1:184:PRO:HD3	2.25	0.56
2:T1:223:THR:HG23	2:T1:225:THR:H	1.70	0.56
2:T7:123:ARG:NH2	2:T7:160:ASP:OD2	2.39	0.56
2:W9:3:GLU:HB2	2:W9:129:CYS:SG	2.46	0.56
2:X3:191:THR:HA	2:X3:194:LEU:HG	1.88	0.56
2:Y5:83:TYR:HB3	2:Y5:86:LEU:HB3	1.87	0.56
1:Y6:246:LEU:HD22	1:Y6:352:SER:HA	1.88	0.56
2:Y9:181:VAL:HB	1:Z0:256:ASN:HD22	1.70	0.56
2:Z3:336:LYS:O	2:Z3:339:ARG:NH2	2.38	0.56
1:Z8:252:LYS:HA	1:Z8:255:VAL:HG22	1.88	0.56
1:0A:211:CYS:HA	1:0A:215:LEU:HB2	1.88	0.56
1:0G:113:ILE:HA	1:0G:116:VAL:HG22	1.88	0.56
1:0M:31:ASP:OD1	1:0M:35:THR:N	2.27	0.56
2:0V:50:ASN:O	2:0V:64:ARG:NH2	2.39	0.56
1:1K:33:THR:O	1:1K:58:ARG:NH2	2.39	0.56
1:1K:285:THR:HG23	1:1K:288:GLU:H	1.71	0.56
1:2I:177:ASP:O	2:2J:352:LYS:HA	2.06	0.56
1:2S:257:LEU:HD21	1:2S:314:SER:HB3	1.88	0.56
1:2Y:173:PRO:HD2	1:2Y:380:ARG:CZ	2.36	0.56
2:3B:223:THR:HG22	2:3B:224:TYR:H	1.71	0.56
1:3M:52:ASN:H	1:3M:52:ASN:ND2	2.01	0.56
1:3Q:177:ASP:O	2:3R:352:LYS:HA	2.06	0.56
2:3R:37:PRO:O	2:3R:41:THR:HG23	2.06	0.56
2:3T:246:GLY:HA3	2:3T:356:ASN:HA	1.87	0.56
3:3Z:153:ASP:OD1	3:3Z:156:HIS:N	2.37	0.56
5:4L:312:GLU:HB3	5:4L:315:ARG:HH21	1.70	0.56
14:5L:384:GLU:HB3	14:5L:402:SER:HB3	1.88	0.56
14:5N:382:ASN:ND2	23:6S:62:GLN:O	2.39	0.56
15:5O:60:LEU:HD12	15:5O:60:LEU:O	2.05	0.56
15:5O:296:SER:C	15:5O:299:GLU:HG3	2.23	0.56
15:5P:52:TYR:CD2	15:5P:54:GLU:CB	2.88	0.56
15:5P:331:ASP:OD2	15:5P:334:LEU:HD12	2.05	0.56
18:6C:102:ASP:N	18:6C:102:ASP:OD1	2.37	0.56
19:6E:73:HIS:O	19:6E:77:GLN:HG3	2.05	0.56
22:6I:294:LEU:HD13	22:6I:343:TYR:CD1	2.41	0.56
24:6Z:558:LEU:O	24:6Z:562:LEU:HG	2.06	0.56
24:7A:6:PRO:HG2	31:7N:83:THR:CG2	2.36	0.56
26:7F:84:ALA:O	26:7F:88:THR:OG1	2.23	0.56
1:A3:215:LEU:CD1	26:7F:136:PHE:CD2	2.90	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B4:59:GLY:HA3	24:6W:263:ARG:NH1	2.21	0.55
1:I2:173:PRO:HB3	1:I2:384:GLN:HE22	1.70	0.55
2:I5:90:GLU:OE1	2:K1:283:HIS:ND1	2.38	0.55
1:I8:113:ILE:HA	1:I8:116:VAL:HG12	1.87	0.55
1:I8:135:VAL:O	1:I8:166:THR:HA	2.06	0.55
1:J2:45:GLU:HG2	1:J2:46:ARG:HG2	1.88	0.55
2:J5:72:PRO:HG3	1:J6:1:MET:HG2	1.87	0.55
2:L1:223:THR:HG23	2:L1:225:THR:H	1.71	0.55
1:M2:74:ASP:HB3	15:5O:48:LYS:HE2	1.88	0.55
1:M4:5:VAL:HG12	1:M4:133:PHE:HD1	1.70	0.55
2:M5:265:ILE:HD11	2:M5:435:VAL:HG21	1.88	0.55
1:O4:39:ASP:OD1	1:O4:40:SER:N	2.39	0.55
2:P3:98:ASP:OD1	2:P3:99:ALA:N	2.39	0.55
1:Q4:113:ILE:HA	1:Q4:116:VAL:HG22	1.87	0.55
2:R3:137:VAL:HG22	2:R3:168:GLY:HA2	1.88	0.55
2:R3:306:ASP:HB3	2:R3:309:HIS:CD2	2.41	0.55
2:R9:222:PRO:HD2	1:S0:324:LYS:HE3	1.88	0.55
1:S2:329:GLN:HA	1:S2:332:ASN:HD21	1.71	0.55
1:S6:125:GLU:CD	3:3X:66:THR:HG23	2.26	0.55
2:S7:8:HIS:CD2	2:S7:17:GLY:HA3	2.40	0.55
1:T0:2:ARG:HE	1:T0:240:LEU:HD22	1.71	0.55
2:T5:381:SER:OG	2:T5:382:THR:N	2.39	0.55
2:T7:3:GLU:HB2	2:T7:129:CYS:SG	2.46	0.55
2:U9:11:GLN:NE2	1:V0:247:ASN:OD1	2.39	0.55
2:V3:301:MET:HE1	2:V3:307:PRO:HD3	1.87	0.55
1:W2:335:ASN:O	1:W2:338:SER:OG	2.25	0.55
2:W3:119:LEU:HA	2:W3:122:ILE:HG22	1.88	0.55
2:W7:90:GLU:HB3	2:W7:121:ARG:NH1	2.19	0.55
2:W9:90:GLU:HB2	2:W9:121:ARG:HH12	1.70	0.55
2:X7:132:LEU:HD22	2:X7:164:LYS:HD3	1.87	0.55
2:Y3:236:SER:O	2:Y3:243:ARG:NH2	2.38	0.55
1:Y4:171:PRO:O	1:Y4:380:ARG:NH2	2.38	0.55
2:Z1:167:LEU:HD13	2:Z1:200:VAL:HB	1.88	0.55
2:Z9:5:ILE:HD13	2:Z9:125:LEU:HD23	1.88	0.55
2:0J:274:PRO:HB2	2:0J:276:ILE:CG1	2.36	0.55
2:0N:9:ILE:HD13	2:0N:150:GLY:HA2	1.87	0.55
2:0R:244:PHE:HB2	2:0R:356:ASN:HD21	1.71	0.55
2:1R:286:LEU:O	2:1R:373:ARG:NH1	2.38	0.55
2:2B:98:ASP:OD1	2:2B:99:ALA:N	2.39	0.55
2:2B:278:ALA:HA	2:2B:369:ALA:HB2	1.87	0.55
1:2C:335:ASN:O	1:2C:338:SER:OG	2.24	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2F:109:THR:OG1	2:2F:411:GLU:OE2	2.22	0.55
2:2P:267:PHE:HB2	2:2P:384:ILE:HD12	1.89	0.55
2:2R:267:PHE:HB2	2:2R:384:ILE:HD12	1.88	0.55
2:2X:51:THR:HG21	2:2X:243:ARG:HG2	1.88	0.55
2:2X:381:SER:OG	2:2X:382:THR:N	2.38	0.55
2:2X:399:TYR:OH	2:2X:415:GLU:OE2	2.21	0.55
2:3F:381:SER:OG	2:3F:382:THR:N	2.39	0.55
1:3M:282:ARG:HH21	1:3M:288:GLU:CD	2.09	0.55
2:3R:255:PHE:HA	2:3R:259:LEU:HD13	1.88	0.55
2:3R:399:TYR:O	2:3R:402:ARG:NH1	2.39	0.55
1:3S:114:ASP:N	1:3S:114:ASP:OD1	2.39	0.55
4:4I:90:GLU:OE2	4:4I:102:ARG:HD2	2.05	0.55
7:4R:297:MET:CG	20:6F:130:LEU:HD21	2.36	0.55
14:5L:196:VAL:O	14:5L:214:THR:N	2.39	0.55
14:5L:359:CYS:HB2	14:5L:364:ILE:HD13	1.87	0.55
14:5M:359:CYS:HB2	14:5M:364:ILE:HD13	1.87	0.55
14:5M:384:GLU:HB3	14:5M:402:SER:HB3	1.88	0.55
14:5N:555:GLU:O	14:5N:573:GLY:N	2.36	0.55
18:6A:125:ARG:NH2	18:6A:204:LEU:O	2.38	0.55
18:6B:125:ARG:NH2	18:6B:204:LEU:O	2.38	0.55
18:6C:125:ARG:NH2	18:6C:204:LEU:O	2.38	0.55
22:6O:49:SER:OG	22:6O:51:ILE:HG22	2.06	0.55
24:6U:252:LYS:HG2	24:6U:257:LEU:HD21	1.87	0.55
24:6X:445:ILE:HG22	24:6X:447:ARG:CD	2.37	0.55
24:6Y:14:TYR:CD2	24:6Y:14:TYR:N	2.74	0.55
24:6Y:95:VAL:N	24:6Y:187:PHE:HE2	2.04	0.55
35:7U:100:GLN:HA	35:7U:103:GLU:HG3	1.87	0.55
2:8:33:ASP:CB	18:6A:77:THR:HG21	2.36	0.55
2:A2:40:LYS:HZ3	26:7F:45:MET:N	2.03	0.55
2:F3:282:TYR:CZ	22:6O:82:LEU:HG	2.41	0.55
1:H2:72:THR:O	1:H2:76:VAL:HG23	2.06	0.55
1:H4:287:PRO:HA	1:H4:290:THR:HG22	1.88	0.55
2:I1:72:PRO:HG3	1:I2:1:MET:HG2	1.88	0.55
1:I2:248:ALA:CA	1:I2:252:LYS:HD2	2.22	0.55
1:I4:167:PHE:CZ	1:I4:233:MET:HG2	2.41	0.55
2:I5:289:ALA:O	2:I5:293:ASN:ND2	2.38	0.55
1:J4:177:ASP:O	2:J5:352:LYS:HA	2.06	0.55
1:J8:164:MET:HB3	1:J8:197:ASP:OD2	2.06	0.55
2:K3:88:HIS:CG	2:L9:283:HIS:HB2	2.42	0.55
2:K3:399:TYR:O	2:K3:402:ARG:NH1	2.39	0.55
1:K6:207:LEU:HB3	1:K6:225:LEU:HD22	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K6:257:LEU:HA	1:K6:312:THR:HG21	1.89	0.55
1:K6:285:THR:OG1	1:K6:287:PRO:HD2	2.06	0.55
2:K9:281:ALA:C	2:K9:283:HIS:H	2.09	0.55
2:L1:222:PRO:HD2	1:L2:324:LYS:HE3	1.88	0.55
2:L9:76:ASP:HA	2:L9:79:ARG:HB2	1.88	0.55
2:L9:195:LEU:HD21	2:L9:264:ARG:HH11	1.72	0.55
2:M5:58:ALA:CB	37:7Y:214:ASP:CB	2.84	0.55
1:M6:80:PRO:HB3	15:5P:69:PHE:CZ	2.42	0.55
1:M6:86:ARG:HB3	2:O3:283:HIS:HE1	1.69	0.55
2:M7:399:TYR:O	2:M7:402:ARG:NH1	2.40	0.55
1:O2:274:THR:CG2	1:O2:282:ARG:HD2	2.35	0.55
2:Q3:287:SER:N	2:Q3:290:GLU:OE2	2.24	0.55
2:R5:71:GLU:OE1	2:R5:73:THR:OG1	2.24	0.55
2:R9:191:THR:HA	2:R9:194:LEU:HB3	1.88	0.55
1:S4:77:ARG:HD2	24:6U:32:THR:HG21	1.87	0.55
1:T8:190:HIS:HD2	1:T8:414:ASN:HB2	1.71	0.55
2:U3:213:CYS:HA	2:U3:217:LEU:HB2	1.87	0.55
1:V0:172:SER:OG	1:V0:380:ARG:NH2	2.39	0.55
2:V3:129:CYS:SG	2:V3:130:THR:N	2.78	0.55
1:W0:167:PHE:CZ	1:W0:233:MET:HG2	2.42	0.55
1:W8:3:GLU:OE2	1:W8:62:ARG:NH1	2.39	0.55
2:W9:88:HIS:CB	2:W9:91:GLN:HB2	2.30	0.55
1:X6:51:PHE:HB3	1:X6:59:TYR:HB3	1.88	0.55
1:Y4:170:VAL:HG21	1:Y4:377:MET:SD	2.46	0.55
2:Y5:88:HIS:HB3	2:0B:283:HIS:CE1	2.41	0.55
1:Y8:8:GLN:OE1	1:Y8:65:LEU:HD23	2.06	0.55
1:Y8:20:PHE:HA	1:Y8:230:SER:OG	2.06	0.55
2:Z1:129:CYS:SG	2:Z1:130:THR:N	2.79	0.55
1:0A:309:ARG:H	1:0A:372:THR:HG22	1.71	0.55
2:0B:388:PHE:HB3	2:0B:425:LEU:HD11	1.87	0.55
1:0E:3:GLU:HB2	1:0E:130:LEU:HA	1.88	0.55
1:0M:134:GLN:HE21	1:0M:167:PHE:HE2	1.54	0.55
2:0N:387:ILE:HD13	2:0N:390:ARG:HH12	1.72	0.55
2:0V:289:ALA:O	2:0V:293:ASN:ND2	2.39	0.55
1:0Y:292:GLN:O	1:0Y:298:ASN:ND2	2.27	0.55
2:0Z:318:MET:HB2	2:0Z:376:CYS:HB3	1.88	0.55
1:1A:180:VAL:HG23	1:1A:184:ASN:HD21	1.71	0.55
2:1R:88:HIS:CD2	2:1R:90:GLU:H	2.25	0.55
2:2H:353:CYS:SG	2:2H:354:GLY:N	2.79	0.55
1:2M:74:ASP:O	1:2M:78:SER:OG	2.16	0.55
2:2P:405:VAL:HG13	2:2P:418:PHE:HE2	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3I:233:MET:O	1:3I:237:THR:HG22	2.06	0.55
1:3O:11:GLN:N	39:3O:502:GDP:O1B	2.32	0.55
2:3T:227:LEU:O	2:3T:231:ILE:HG12	2.06	0.55
4:3Y:90:GLU:OE2	4:3Y:102:ARG:HD2	2.05	0.55
12:5G:282:HIS:HB2	12:5G:288:ARG:HG3	1.89	0.55
14:5L:117:PHE:HB3	14:5L:131:LEU:HD21	1.87	0.55
14:5M:196:VAL:O	14:5M:214:THR:N	2.39	0.55
14:5N:10:VAL:HG22	14:5N:620:PHE:CD1	2.41	0.55
14:5N:196:VAL:O	14:5N:214:THR:N	2.39	0.55
15:5O:78:TYR:OH	15:5O:84:ARG:HG3	2.06	0.55
24:6V:110:ASN:ND2	24:6V:213:TYR:OH	2.39	0.55
29:7J:322:TYR:CZ	29:7J:324:GLY:HA3	2.41	0.55
1:5:204:ASN:HD21	39:5:501:GDP:HN22	1.54	0.55
1:A3:219:THR:CB	26:7F:142:PHE:CZ	2.88	0.55
2:A8:226:ASN:ND2	18:5X:51:MET:SD	2.79	0.55
2:G9:221:ARG:HG3	22:6P:178:GLY:HA2	1.88	0.55
2:H9:222:PRO:HD2	1:I0:324:LYS:HE3	1.87	0.55
2:I1:165:SER:HB2	2:I1:256:GLN:HE21	1.71	0.55
1:I4:178:THR:HG22	2:I5:352:LYS:HE2	1.86	0.55
2:I9:406:HIS:HA	2:I9:409:VAL:HG22	1.87	0.55
1:J4:140:GLY:O	1:J4:184:ASN:ND2	2.40	0.55
2:K3:11:GLN:NE2	1:K4:247:ASN:OD1	2.40	0.55
1:K4:135:VAL:HG21	1:K4:152:ILE:HD11	1.89	0.55
2:K5:405:VAL:HG13	2:K5:418:PHE:HE2	1.71	0.55
2:K9:206:ASN:OD1	41:K9:501:GTP:N2	2.39	0.55
2:L3:115:VAL:HG22	2:L3:119:LEU:HD23	1.87	0.55
2:L3:406:HIS:HA	2:L3:409:VAL:HG22	1.89	0.55
2:L5:27:GLU:CD	2:L5:243:ARG:HH12	2.08	0.55
1:M6:317:PHE:HE2	1:M6:326:VAL:HG13	1.71	0.55
1:M8:285:THR:OG1	1:M8:287:PRO:HD2	2.07	0.55
2:N5:70:LEU:HD12	2:N5:99:ALA:HB2	1.88	0.55
1:N6:177:ASP:O	2:N7:352:LYS:HA	2.06	0.55
2:O3:244:PHE:HB2	2:O3:356:ASN:HD21	1.70	0.55
2:O7:91:GLN:CA	2:O7:121:ARG:HH12	2.18	0.55
2:P5:46:ASP:O	2:P5:47:ASP:HB3	2.06	0.55
2:Q3:58:ALA:HB3	7:4R:275:LEU:HD11	1.89	0.55
1:Q6:238:CYS:SG	1:Q6:318:ARG:NE	2.79	0.55
2:R1:98:ASP:OD1	2:R1:99:ALA:N	2.39	0.55
2:R7:278:ALA:HA	2:R7:369:ALA:HB2	1.89	0.55
1:S8:53:GLU:OE1	26:7D:71:PRO:O	2.23	0.55
1:T0:363:MET:HB3	7:4T:352:ASN:ND2	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U5:276:ILE:HB	2:U5:280:LYS:HG3	1.87	0.55
2:U5:417:GLU:HA	2:U5:420:GLU:HG2	1.89	0.55
2:U9:85:GLN:OE1	2:U9:85:GLN:HA	2.07	0.55
1:V8:375:GLN:HB3	1:V8:422:TYR:HD2	1.70	0.55
2:V9:119:LEU:HA	2:V9:122:ILE:HG22	1.88	0.55
1:W0:22:GLU:HG2	1:W0:81:TYR:HB2	1.89	0.55
1:W2:198:GLU:HB3	1:W2:258:ILE:HD11	1.87	0.55
2:W5:399:TYR:O	2:W5:402:ARG:NH1	2.40	0.55
2:Y9:83:TYR:HB3	2:Y9:86:LEU:HB3	1.89	0.55
2:Z7:286:LEU:O	2:Z7:373:ARG:NH1	2.40	0.55
2:Z9:90:GLU:O	2:Z9:121:ARG:NH1	2.39	0.55
2:0F:12:ALA:HB2	41:0F:501:GTP:C8	2.41	0.55
2:0F:320:ARG:HD3	2:0F:360:PRO:HG3	1.88	0.55
1:0M:358:PRO:HG2	1:0M:361:LEU:HD13	1.88	0.55
1:0S:182:PRO:HG2	1:0S:388:MET:HE3	1.88	0.55
2:0X:58:ALA:HB2	9:4Y:441:PRO:HB3	1.87	0.55
1:1A:364:SER:OG	1:1A:365:ALA:N	2.39	0.55
2:1B:222:PRO:HD2	1:1C:324:LYS:HE3	1.88	0.55
1:1K:10:GLY:HA2	1:1K:143:THR:HG23	1.87	0.55
1:1O:72:THR:O	1:1O:76:VAL:HG23	2.06	0.55
1:2A:5:VAL:HG12	1:2A:62:ARG:HD3	1.89	0.55
1:2G:211:CYS:HA	1:2G:215:LEU:HB2	1.88	0.55
2:2H:123:ARG:HG2	38:8B:26:THR:HB	1.87	0.55
1:2I:77:ARG:HE	1:2I:90:PHE:HE2	1.53	0.55
2:2P:296:PHE:C	38:7Z:25:ILE:HD11	2.27	0.55
1:2U:245:GLN:HE21	38:8B:198:THR:HG21	1.71	0.55
2:3B:189:LEU:HD11	2:3B:418:PHE:HE1	1.71	0.55
2:3B:406:HIS:HA	2:3B:409:VAL:HG22	1.88	0.55
2:3D:70:LEU:HB2	2:3D:98:ASP:HA	1.87	0.55
1:3K:309:ARG:NH1	1:3K:339:SER:O	2.39	0.55
2:3P:189:LEU:HD11	2:3P:418:PHE:HE1	1.72	0.55
2:3R:116:ASP:OD1	2:3R:117:LEU:N	2.39	0.55
2:3R:433:GLU:OE1	2:3R:433:GLU:N	2.32	0.55
4:3W:90:GLU:OE2	4:3W:102:ARG:HD2	2.05	0.55
4:4A:90:GLU:OE2	4:4A:102:ARG:HD2	2.05	0.55
4:4E:90:GLU:OE2	4:4E:102:ARG:HD2	2.05	0.55
10:5D:133:ARG:O	10:5D:137:THR:HG23	2.06	0.55
14:5L:10:VAL:HG22	14:5L:620:PHE:CD1	2.41	0.55
18:5X:181:GLN:O	18:5X:185:THR:OG1	2.22	0.55
18:5Y:175:THR:OG1	18:5Y:177:PRO:HD2	2.06	0.55
18:5Z:175:THR:OG1	18:5Z:177:PRO:HD2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:6J:277:SER:O	22:6J:281:LYS:HG2	2.06	0.55
22:6N:219:ASP:OD1	22:6N:222:SER:OG	2.20	0.55
23:6R:28:LYS:HA	23:6R:28:LYS:CE	2.33	0.55
24:6T:429:LYS:HD2	24:6T:430:PRO:HD2	1.89	0.55
24:6Y:431:PRO:HB2	24:6Y:433:ARG:NH2	2.22	0.55
24:7A:18:LEU:O	24:7A:20:GLN:NE2	2.39	0.55
38:8B:158:MET:HE2	38:8B:158:MET:O	2.07	0.55
2:A2:82:THR:CG2	26:7F:118:SER:HB2	2.35	0.55
1:G4:218:THR:OG1	24:6X:418:ASP:OD1	2.16	0.55
2:G9:278:ALA:HB3	22:6P:215:GLY:HA2	1.89	0.55
2:I1:203:MET:O	2:I1:204:LEU:HD23	2.07	0.55
2:I5:119:LEU:HA	2:I5:122:ILE:HG12	1.87	0.55
2:I5:227:LEU:O	2:I5:231:ILE:HG12	2.06	0.55
1:J2:52:ASN:OD1	1:J2:62:ARG:NH2	2.39	0.55
2:J9:116:ASP:OD1	2:J9:117:LEU:N	2.38	0.55
2:J9:220:GLU:HG2	2:J9:221:ARG:HG3	1.88	0.55
2:K1:37:PRO:HG2	28:7X:402:ARG:HB3	1.89	0.55
1:K4:177:ASP:O	2:K5:352:LYS:HA	2.06	0.55
2:K7:53:PHE:HB3	2:K7:61:HIS:HB3	1.89	0.55
2:L3:276:ILE:HD11	2:L3:281:ALA:CA	2.33	0.55
2:M1:359:PRO:HD3	29:7I:90:GLY:HA3	1.87	0.55
2:N3:165:SER:HA	2:N3:199:ASP:OD2	2.07	0.55
2:O3:90:GLU:CB	2:O3:121:ARG:HH12	2.20	0.55
2:O3:100:ALA:HA	1:O4:252:LYS:HE2	1.88	0.55
1:O8:139:LEU:HD12	1:O8:170:VAL:HG22	1.87	0.55
2:O9:21:TRP:CZ2	2:O9:65:CYS:HB2	2.42	0.55
1:P6:194:GLU:OE2	1:P6:262:ARG:NH1	2.38	0.55
1:P8:114:ASP:OD1	1:P8:115:SER:N	2.40	0.55
2:P9:81:GLY:HA3	19:6E:149:TYR:HE2	1.72	0.55
2:Q1:14:ILE:HD11	2:Q1:74:VAL:HG13	1.87	0.55
1:Q2:388:MET:HE2	2:Q3:348:PRO:HD2	1.89	0.55
2:R5:170:THR:HG21	2:R5:194:LEU:HD11	1.88	0.55
1:S2:181:GLU:HG2	1:S2:182:PRO:HD3	1.88	0.55
2:T5:345:ASP:N	2:T5:345:ASP:OD1	2.39	0.55
1:T6:253:LEU:HD11	1:T6:316:LEU:HD11	1.88	0.55
1:U4:190:HIS:HD2	1:U4:414:ASN:HB2	1.72	0.55
2:V1:384:ILE:HA	2:V1:387:ILE:HD12	1.88	0.55
2:V3:417:GLU:HA	2:V3:420:GLU:HG2	1.87	0.55
2:V9:172:TYR:N	2:V9:204:LEU:O	2.38	0.55
1:X2:135:VAL:HG21	1:X2:152:ILE:HD11	1.89	0.55
1:X2:172:SER:OG	1:X2:380:ARG:NH2	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X3:224:TYR:HD1	2:X3:227:LEU:HD12	1.70	0.55
2:X5:262:TYR:HH	2:X5:346:TRP:HZ3	1.53	0.55
1:X6:309:ARG:NH1	1:X6:339:SER:O	2.39	0.55
2:Y5:399:TYR:O	2:Y5:402:ARG:NH1	2.39	0.55
1:Y8:244:GLY:HA3	1:Y8:354:CYS:HA	1.88	0.55
1:Z4:101:TRP:HB2	1:Z4:184:ASN:OD1	2.07	0.55
2:Z9:183:GLU:CD	2:Z9:184:PRO:HD3	2.26	0.55
2:Z9:315:CYS:SG	2:Z9:316:CYS:N	2.79	0.55
1:0E:267:MET:HG3	1:0E:301:CYS:HB3	1.88	0.55
2:0F:164:LYS:O	2:0F:166:LYS:NZ	2.39	0.55
2:0H:278:ALA:HA	2:0H:369:ALA:HB2	1.88	0.55
1:0K:60:VAL:HG11	1:1A:281:TYR:HB3	1.87	0.55
1:0K:211:CYS:HA	1:0K:215:LEU:HB2	1.87	0.55
1:0O:249:ASP:OD2	1:0O:250:LEU:N	2.37	0.55
2:0V:145:THR:OG1	41:0V:501:GTP:O1B	2.22	0.55
2:0V:336:LYS:NZ	2:0V:349:THR:HA	2.22	0.55
1:0W:211:CYS:HA	1:0W:215:LEU:HB2	1.89	0.55
2:1B:264:ARG:NH1	2:1B:431:ASP:OD1	2.40	0.55
2:1D:33:ASP:OD2	2:1D:35:GLN:NE2	2.40	0.55
2:1D:72:PRO:HA	2:1D:75:VAL:HG22	1.88	0.55
2:1D:76:ASP:OD1	2:1D:79:ARG:NH2	2.39	0.55
1:1K:186:THR:HG22	1:1K:411:ALA:HB1	1.89	0.55
1:1Q:235:GLY:HA3	1:1Q:366:THR:HG21	1.88	0.55
1:1W:287:PRO:HA	1:1W:290:THR:HG22	1.89	0.55
1:2A:267:MET:HG2	1:2A:301:CYS:HB3	1.89	0.55
2:2L:266:HIS:ND1	2:2L:266:HIS:O	2.38	0.55
2:2X:42:ILE:HD11	14:5M:139:ALA:CB	2.36	0.55
1:2Y:320:ARG:HH12	38:8C:197:THR:C	2.09	0.55
1:3A:190:HIS:CD2	1:3A:411:ALA:HA	2.41	0.55
2:3D:213:CYS:HA	2:3D:217:LEU:HB2	1.87	0.55
2:3H:90:GLU:HG3	3:3X:36:PHE:HB3	1.88	0.55
2:3R:245:ASP:OD2	14:5N:192:THR:CG2	2.55	0.55
2:3R:286:LEU:HD13	2:3R:371:VAL:HG13	1.88	0.55
3:3X:153:ASP:OD1	3:3X:156:HIS:N	2.37	0.55
4:4C:90:GLU:OE2	4:4C:102:ARG:HD2	2.05	0.55
4:4G:90:GLU:OE2	4:4G:102:ARG:HD2	2.05	0.55
8:4V:438:ALA:HA	8:4V:441:ASP:OD1	2.06	0.55
9:4Y:433:ARG:NH2	9:4Y:439:THR:OG1	2.40	0.55
9:4Z:49:ARG:O	9:4Z:53:THR:HG23	2.06	0.55
14:5M:10:VAL:HG22	14:5M:620:PHE:CD1	2.41	0.55
14:5N:359:CYS:HB2	14:5N:364:ILE:HD13	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:5O:82:PHE:HA	15:5O:85:ASN:HD21	1.70	0.55
15:5O:180:ASP:HB3	15:5O:183:GLN:HG2	1.87	0.55
16:5Q:63:ARG:HD3	16:5Q:92:PHE:HA	1.87	0.55
18:5X:175:THR:OG1	18:5X:177:PRO:HD2	2.06	0.55
18:6A:175:THR:OG1	18:6A:177:PRO:HD2	2.06	0.55
18:6B:175:THR:OG1	18:6B:177:PRO:HD2	2.06	0.55
18:6C:175:THR:OG1	18:6C:177:PRO:HD2	2.06	0.55
22:6J:110:ILE:O	22:6J:113:ARG:NH1	2.39	0.55
24:6W:613:LYS:O	24:6W:617:ASP:HB2	2.06	0.55
24:6Z:242:PHE:O	24:6Z:246:VAL:HG23	2.07	0.55
24:6Z:569:LYS:HB3	24:6Z:572:ALA:HB3	1.87	0.55
35:7T:31:SER:O	35:7T:35:LYS:HG3	2.07	0.55
38:8C:8:GLU:OE1	38:8C:8:GLU:N	2.36	0.55
1:5:75:SER:HA	24:6V:149:LYS:HE3	1.88	0.55
1:9:78:SER:CB	24:6X:149:LYS:HG3	2.36	0.55
2:G5:129:CYS:SG	2:G5:130:THR:N	2.79	0.55
2:H7:183:GLU:HG3	2:H7:184:PRO:HD3	1.89	0.55
1:I0:218:THR:CB	24:6X:489:ASN:N	2.66	0.55
2:I1:217:LEU:HB3	2:I1:219:ILE:HD12	1.88	0.55
1:J4:135:VAL:HG21	1:J4:152:ILE:HD11	1.89	0.55
2:J9:133:GLN:HG2	2:J9:252:ILE:HG22	1.88	0.55
2:K1:381:SER:OG	2:K1:382:THR:N	2.38	0.55
1:L0:252:LYS:HA	1:L0:255:VAL:HG12	1.87	0.55
1:L4:39:ASP:OD1	1:L4:40:SER:N	2.38	0.55
1:L6:207:LEU:HB3	1:L6:225:LEU:HD22	1.87	0.55
1:M6:73:MET:HE1	1:M6:90:PHE:HB3	1.89	0.55
1:M6:145:SER:OG	1:M6:188:SER:OG	2.18	0.55
2:N1:109:THR:OG1	2:N1:411:GLU:OE2	2.19	0.55
2:N3:313:MET:N	2:N3:380:ASN:O	2.31	0.55
1:O4:70:PRO:N	1:O4:92:PHE:HZ	2.04	0.55
2:O5:381:SER:OG	2:O5:382:THR:N	2.39	0.55
2:O7:21:TRP:HZ2	2:O7:65:CYS:HB3	1.71	0.55
2:P5:42:ILE:HG21	27:7G:217:ILE:HG21	1.87	0.55
2:P5:47:ASP:O	27:7G:187:ARG:NH2	2.39	0.55
1:Q4:248:ALA:HA	1:Q4:252:LYS:HD2	1.89	0.55
1:Q8:334:GLN:HA	1:Q8:341:PHE:HE2	1.71	0.55
2:Q9:156:ARG:HA	2:Q9:159:VAL:HG12	1.89	0.55
1:R0:135:VAL:HG21	1:R0:152:ILE:HD11	1.88	0.55
2:R5:66:ILE:HD12	2:R5:68:LEU:HD23	1.89	0.55
2:T5:377:MET:SD	2:T5:379:SER:HB3	2.47	0.55
1:T8:31:ASP:OD1	1:T8:35:THR:N	2.32	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U3:279:GLU:HB3	2:U3:283:HIS:HE1	1.72	0.55
1:U8:397:TRP:CH2	2:U9:256:GLN:HB3	2.41	0.55
2:U9:327:ASP:OD1	2:U9:328:VAL:N	2.39	0.55
2:V3:276:ILE:HD11	2:V3:371:VAL:HG22	1.88	0.55
1:W8:34:GLY:HA3	1:W8:58:ARG:HD3	1.87	0.55
2:W9:10:GLY:C	2:W9:69:ASP:OD2	2.43	0.55
2:X5:3:GLU:O	2:X5:133:GLN:N	2.30	0.55
2:Y3:420:GLU:HA	2:Y3:423:GLU:HG2	1.89	0.55
2:Y5:286:LEU:O	2:Y5:373:ARG:NH1	2.39	0.55
2:Y5:417:GLU:HA	2:Y5:420:GLU:HG2	1.89	0.55
1:Z0:156:ARG:HD3	1:Z0:164:MET:HE2	1.89	0.55
1:Z8:190:HIS:NE2	1:Z8:414:ASN:OD1	2.40	0.55
1:Z8:317:PHE:HE2	1:Z8:326:VAL:HG13	1.71	0.55
2:Z9:102:ASN:HD21	2:Z9:411:GLU:HG3	1.71	0.55
1:0E:139:LEU:HG	1:0E:168:SER:OG	2.06	0.55
1:0E:285:THR:HG23	1:0E:288:GLU:H	1.72	0.55
2:0F:175:PRO:HB3	2:0F:390:ARG:HE	1.71	0.55
1:0M:58:ARG:HD3	1:1C:280:GLN:HE22	1.70	0.55
2:0R:88:HIS:CE1	2:1H:283:HIS:HA	2.42	0.55
2:1B:12:ALA:O	2:1B:16:VAL:HG23	2.07	0.55
2:1F:9:ILE:HG13	2:1F:139:ASN:HB3	1.89	0.55
1:1K:287:PRO:HA	1:1K:290:THR:HG22	1.88	0.55
2:1T:49:PHE:HB2	2:1T:53:PHE:HD2	1.71	0.55
1:1U:322:SER:OG	1:1U:325:GLU:OE1	2.15	0.55
2:1Z:287:SER:N	2:1Z:290:GLU:OE2	2.39	0.55
1:2A:358:PRO:HG2	1:2A:361:LEU:HB2	1.89	0.55
1:2Q:291:GLN:OE1	38:8A:98:TYR:CD1	2.60	0.55
2:2T:298:PRO:HB3	2:2T:307:PRO:CD	2.37	0.55
1:3M:265:PHE:HD2	1:3M:422:TYR:HH	1.55	0.55
2:3N:53:PHE:HB3	2:3N:61:HIS:HB3	1.88	0.55
2:3R:39:ASP:OD2	2:3R:40:LYS:N	2.40	0.55
3:4F:153:ASP:OD1	3:4F:156:HIS:N	2.37	0.55
7:4R:173:ALA:O	7:4R:176:GLU:HG3	2.05	0.55
8:4W:284:ALA:O	8:4W:288:THR:HG23	2.07	0.55
8:4W:437:ARG:O	8:4W:441:ASP:HB3	2.06	0.55
9:4Z:20:THR:OG1	9:4Z:21:PHE:N	2.39	0.55
10:5B:135:ARG:HG3	10:5B:139:MET:HE3	1.88	0.55
10:5C:133:ARG:O	10:5C:137:THR:HG23	2.07	0.55
12:5F:298:ASP:HB3	12:7B:13:PRO:HG3	1.88	0.55
14:5L:528:ALA:HB1	14:5L:556:VAL:HG12	1.89	0.55
14:5M:528:ALA:HB1	14:5M:556:VAL:HG12	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:5N:30:ILE:HG22	14:5N:41:ARG:HB2	1.88	0.55
17:5T:228:THR:HA	17:5T:231:ARG:HE	1.71	0.55
18:6D:175:THR:OG1	18:6D:177:PRO:HD2	2.06	0.55
22:6M:110:ILE:O	22:6M:113:ARG:NH1	2.39	0.55
23:6S:27:ASP:O	23:6S:28:LYS:HB2	2.07	0.55
24:6W:117:ARG:NH1	24:6W:134:GLU:OE2	2.39	0.55
24:6W:130:MET:HG3	24:6W:153:VAL:HG12	1.88	0.55
24:6Y:277:CYS:HA	24:6Y:368:LEU:HA	1.88	0.55
24:6Z:558:LEU:HD22	24:6Z:608:GLN:HB3	1.89	0.55
33:7Q:172:ARG:HG2	33:7Q:173:SER:H	1.72	0.55
38:8A:122:LYS:HA	38:8A:125:ASN:HD21	1.71	0.55
38:8C:110:ASN:HD21	38:8C:112:ILE:HB	1.72	0.55
1:A3:340:TYR:HE1	3:4H:104:PRO:N	2.05	0.55
2:H1:217:LEU:HB3	2:H1:219:ILE:HD12	1.89	0.55
2:H3:90:GLU:HB3	2:H3:121:ARG:HH22	1.72	0.55
2:H7:71:GLU:HG3	1:H8:2:ARG:NH1	2.20	0.55
1:I4:139:LEU:HD12	1:I4:170:VAL:HG12	1.88	0.55
2:I5:384:ILE:HA	2:I5:387:ILE:HD12	1.88	0.55
1:J2:70:PRO:N	1:J2:92:PHE:HZ	2.03	0.55
1:J2:177:ASP:O	2:J3:352:LYS:HA	2.06	0.55
1:J6:77:ARG:HE	29:7J:423:GLY:HA3	1.71	0.55
1:K8:404:ASP:HB3	1:K8:406:MET:SD	2.47	0.55
1:L4:190:HIS:CD2	1:L4:411:ALA:HA	2.41	0.55
2:M7:287:SER:HB2	30:7K:84:VAL:HG11	1.89	0.55
2:N1:129:CYS:SG	2:N1:130:THR:N	2.79	0.55
2:N7:364:PRO:HG3	27:7G:145:ARG:HE	1.72	0.55
1:O6:54:ALA:HB3	1:O6:58:ARG:HB3	1.89	0.55
1:Q8:260:PHE:HD2	1:Q8:262:ARG:H	1.53	0.55
2:R7:305:CYS:HB3	2:R7:387:ILE:HD11	1.89	0.55
1:S2:238:CYS:SG	1:S2:318:ARG:NE	2.80	0.55
1:T0:320:ARG:HH12	12:5F:210:THR:HA	1.71	0.55
1:T2:156:ARG:HH22	3:4D:91:LYS:HE2	1.71	0.55
2:U1:195:LEU:HD12	2:U1:428:LEU:HD12	1.89	0.55
2:V1:287:SER:OG	2:V1:288:VAL:N	2.40	0.55
2:V9:21:TRP:CZ3	2:V9:63:PRO:HB3	2.41	0.55
2:W5:381:SER:OG	2:W5:382:THR:N	2.39	0.55
1:W6:177:ASP:O	2:W7:352:LYS:HA	2.07	0.55
1:X0:36:TYR:CE1	1:X0:44:LEU:HD21	2.42	0.55
1:Y0:39:ASP:OD1	1:Y0:40:SER:N	2.40	0.55
2:Y3:206:ASN:OD1	41:Y4:501:GTP:N2	2.39	0.55
1:Y6:212:PHE:HE1	1:Y6:220:PRO:HG3	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z3:8:HIS:CD2	2:Z3:138:PHE:HD2	2.24	0.55
2:Z5:417:GLU:HA	2:Z5:420:GLU:HG2	1.88	0.55
1:0G:31:ASP:OD2	1:0G:33:THR:OG1	2.15	0.55
1:0I:165:LEU:HD22	1:0I:167:PHE:HE1	1.72	0.55
2:0L:167:LEU:HG	2:0L:252:ILE:HD11	1.88	0.55
2:0P:352:LYS:NZ	2:0P:353:CYS:O	2.40	0.55
1:0U:3:GLU:HG2	1:0U:127:CYS:SG	2.46	0.55
2:0V:292:THR:HG21	2:0V:331:SER:HB3	1.89	0.55
1:0Y:334:GLN:NE2	1:0Y:348:ASN:H	2.04	0.55
2:0Z:178:SER:OG	2:0Z:183:GLU:OE2	2.23	0.55
2:1H:388:PHE:HD1	2:1H:391:LEU:HD21	1.72	0.55
2:1N:90:GLU:HB3	2:1N:121:ARG:NH2	2.21	0.55
2:1N:306:ASP:OD1	2:1N:308:ARG:HB2	2.07	0.55
1:2G:244:GLY:H	1:2G:247:ASN:HD21	1.54	0.55
1:2I:215:LEU:HB3	1:2I:217:LEU:HG	1.88	0.55
2:2L:26:LEU:HD21	2:2L:363:VAL:HG12	1.89	0.55
2:2P:236:SER:O	2:2P:243:ARG:NH2	2.40	0.55
1:2Q:306:ARG:NH1	38:8A:95:LYS:CA	2.70	0.55
1:2S:244:GLY:HA2	1:2S:355:ASP:OD2	2.06	0.55
2:3F:340:THR:HG23	2:3F:341:ILE:HG23	1.89	0.55
2:3J:286:LEU:O	2:3J:373:ARG:NH1	2.39	0.55
1:3M:218:THR:HB	38:8C:227:LYS:HA	1.89	0.55
2:3T:399:TYR:HE2	2:3T:418:PHE:HB3	1.72	0.55
3:4B:153:ASP:OD1	3:4B:156:HIS:N	2.37	0.55
5:4L:289:LEU:O	5:4L:293:LEU:HG	2.07	0.55
6:4O:329:GLU:O	6:4O:333:MET:HG2	2.07	0.55
14:5L:30:ILE:HG22	14:5L:41:ARG:HB2	1.88	0.55
14:5M:30:ILE:HG22	14:5M:41:ARG:HB2	1.88	0.55
16:5Q:100:ILE:O	16:5Q:104:ILE:HG12	2.07	0.55
22:6K:204:PHE:HB3	22:6K:227:TYR:HE2	1.71	0.55
24:6V:135:PRO:HG2	24:6V:137:GLN:HE22	1.70	0.55
26:7D:23:THR:HG22	26:7D:24:GLN:H	1.71	0.55
26:7E:23:THR:HG22	26:7E:24:GLN:H	1.71	0.55
26:7F:23:THR:HG22	26:7F:24:GLN:H	1.71	0.55
32:7O:30:ILE:HG13	32:7O:31:GLY:H	1.72	0.55
37:7Y:210:THR:HG22	37:7Y:213:MET:HG2	1.88	0.55
2:G1:413:MET:HB3	2:G1:417:GLU:OE2	2.06	0.55
2:G3:119:LEU:HA	2:G3:122:ILE:HG22	1.88	0.55
1:G4:68:LEU:HB3	1:G4:96:GLY:HA2	1.87	0.55
2:G7:5:ILE:HG22	2:G7:64:ARG:HB3	1.88	0.55
2:I5:306:ASP:HB3	2:I5:309:HIS:HD2	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J0:272:PRO:HB2	1:J0:282:ARG:HH12	1.72	0.55
2:K1:312:TYR:HD1	2:K1:381:SER:HB2	1.72	0.55
2:K3:27:GLU:CD	2:K3:243:ARG:HH12	2.09	0.55
2:K7:51:THR:HG21	2:K7:243:ARG:HG2	1.89	0.55
1:L0:7:ILE:HB	1:L0:135:VAL:HG22	1.88	0.55
2:L1:76:ASP:OD1	1:L2:46:ARG:NH2	2.39	0.55
2:M9:281:ALA:O	2:M9:284:GLU:HG3	2.06	0.55
1:N6:8:GLN:HB2	1:N6:65:LEU:HD23	1.89	0.55
2:N7:121:ARG:NH2	2:N7:121:ARG:CG	2.60	0.55
2:N7:286:LEU:O	2:N7:373:ARG:NH1	2.40	0.55
2:N9:125:LEU:HD23	2:N9:125:LEU:O	2.07	0.55
2:O3:276:ILE:HG23	2:O3:280:LYS:HB2	1.88	0.55
2:O5:222:PRO:O	1:O6:322:SER:OG	2.21	0.55
2:O7:406:HIS:HA	2:O7:409:VAL:HG22	1.87	0.55
1:O8:276:ARG:HA	1:O8:279:GLN:HG3	1.88	0.55
2:O9:287:SER:OG	2:O9:290:GLU:OE1	2.17	0.55
1:P4:301:CYS:SG	1:P4:302:ALA:N	2.79	0.55
1:P8:52:ASN:OD1	1:P8:62:ARG:NH2	2.40	0.55
1:Q0:8:GLN:OE1	1:Q0:17:GLY:HA3	2.06	0.55
2:R5:220:GLU:HG2	2:R5:221:ARG:HG3	1.89	0.55
2:R5:333:ALA:O	2:R5:337:THR:HG23	2.07	0.55
1:S4:107:THR:OG1	1:S4:401:GLU:OE2	2.21	0.55
1:S4:362:LYS:HD3	7:4T:174:HIS:CE1	2.41	0.55
1:S4:391:ARG:HG3	2:S5:346:TRP:NE1	2.22	0.55
2:U5:76:ASP:HB3	2:U5:79:ARG:HH11	1.72	0.55
2:V1:267:PHE:HB2	2:V1:384:ILE:HD12	1.88	0.55
1:W0:5:VAL:HG12	1:W0:133:PHE:HD1	1.71	0.55
1:W8:232:VAL:HG22	1:W8:270:PHE:HB2	1.89	0.55
1:X0:40:SER:HB2	8:4X:99:PRO:HG3	1.88	0.55
2:X3:286:LEU:HD11	2:X3:372:GLN:H	1.72	0.55
2:X7:21:TRP:CZ3	2:X7:63:PRO:HB3	2.41	0.55
2:Z3:277:SER:OG	2:Z3:280:LYS:HG2	2.07	0.55
1:Z4:86:ARG:HG2	1:Z4:88:ASP:H	1.70	0.55
1:0E:26:ASP:O	1:0E:359:LYS:NZ	2.28	0.55
1:0E:86:ARG:HG2	1:0E:88:ASP:H	1.72	0.55
2:0L:11:GLN:NE2	1:0M:245:GLN:O	2.37	0.55
2:0L:239:THR:HG23	2:0L:243:ARG:HE	1.71	0.55
2:0N:164:LYS:O	2:0N:166:LYS:NZ	2.40	0.55
1:1C:260:PHE:HB2	1:1C:263:LEU:HD13	1.88	0.55
1:1G:68:LEU:HG	1:1G:147:MET:HE1	1.88	0.55
1:1M:193:VAL:HG11	1:1M:418:LEU:HD11	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1O:51:PHE:O	1:1O:62:ARG:NH2	2.39	0.55
2:1P:175:PRO:HB3	2:1P:390:ARG:NE	2.22	0.55
2:2J:178:SER:HB3	1:2K:347:ASN:ND2	2.22	0.55
1:2K:121:ARG:HD3	38:8C:50:LYS:HE2	1.89	0.55
2:2L:399:TYR:OH	2:2L:415:GLU:OE2	2.24	0.55
2:2X:116:ASP:OD1	2:2X:117:LEU:N	2.39	0.55
2:3B:66:ILE:HD12	2:3B:68:LEU:HD23	1.88	0.55
2:3J:124:LYS:HZ2	3:3Z:36:PHE:HD1	1.53	0.55
1:3K:139:LEU:HD12	1:3K:170:VAL:HG12	1.88	0.55
2:3P:285:GLN:O	2:3P:285:GLN:HG2	2.05	0.55
5:4L:306:PHE:HA	5:4L:309:ARG:HH11	1.71	0.55
8:4W:211:ALA:O	8:4W:215:GLU:HG2	2.07	0.55
10:5C:200:GLU:O	10:5C:203:GLU:HG3	2.06	0.55
14:5N:34:LEU:HG	14:5N:35:GLY:H	1.72	0.55
15:5O:99:LYS:HA	15:5O:153:MET:HE1	1.87	0.55
15:5O:237:THR:HG21	15:5O:310:GLU:OE2	2.07	0.55
15:5O:343:LEU:H	15:5O:343:LEU:HD23	1.72	0.55
20:6F:285:THR:HA	20:6F:288:TYR:HE2	1.70	0.55
24:6T:86:PRO:HB2	24:6T:88:TRP:CD1	2.42	0.55
24:6V:482:ILE:HG22	24:6V:497:PHE:HB3	1.88	0.55
28:7X:403:LYS:O	28:7X:403:LYS:HG3	2.05	0.55
2:4:30:ILE:N	26:7D:45:MET:HE1	2.20	0.55
2:8:221:ARG:O	26:7E:78:ALA:HA	2.05	0.55
1:A3:245:GLN:HG3	26:7F:113:ARG:HH12	1.71	0.55
2:G1:384:ILE:HD12	2:G1:384:ILE:H	1.72	0.55
2:G7:221:ARG:HG3	22:6O:178:GLY:HA2	1.87	0.55
2:I3:167:LEU:HD13	2:I3:200:VAL:HB	1.89	0.55
2:I7:251:ASP:OD1	2:I7:254:GLU:HG2	2.06	0.55
1:I8:139:LEU:HD12	1:I8:170:VAL:HG12	1.89	0.55
1:I8:345:ILE:O	1:I8:348:ASN:ND2	2.39	0.55
2:J9:56:THR:HA	2:L5:285:GLN:HB2	1.89	0.55
2:J9:57:GLY:H	2:L5:285:GLN:HG3	1.72	0.55
1:K0:139:LEU:HD12	1:K0:170:VAL:HG12	1.88	0.55
2:K3:88:HIS:CD2	2:L9:283:HIS:HB2	2.42	0.55
2:K3:313:MET:HB2	2:K3:380:ASN:HB3	1.87	0.55
2:K9:14:ILE:HD11	2:K9:74:VAL:HG13	1.89	0.55
2:L1:167:LEU:HD13	2:L1:200:VAL:HB	1.89	0.55
2:L7:369:ALA:HA	6:4P:205:GLN:HE22	1.72	0.55
2:M1:90:GLU:N	1:N8:281:TYR:OH	2.32	0.55
1:M4:117:LEU:HA	1:M4:120:VAL:HG12	1.88	0.55
2:M9:88:HIS:O	1:O6:281:TYR:OH	2.19	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M9:286:LEU:O	2:M9:373:ARG:NH1	2.40	0.55
2:N7:345:ASP:N	2:N7:345:ASP:OD1	2.40	0.55
1:O2:125:GLU:OE2	1:O2:159:TYR:OH	2.25	0.55
2:O5:264:ARG:NH2	2:O5:431:ASP:OD2	2.40	0.55
2:O7:6:SER:O	2:O7:65:CYS:HA	2.07	0.55
1:P6:72:THR:O	1:P6:76:VAL:HG23	2.07	0.55
2:Q9:266:HIS:ND1	2:Q9:266:HIS:O	2.39	0.55
2:R9:3:GLU:HB2	2:R9:129:CYS:SG	2.46	0.55
1:S2:359:LYS:HD3	7:4R:361:GLN:HE22	1.71	0.55
1:S4:131:GLN:HE21	1:S4:250:LEU:HB3	1.71	0.55
1:S4:227:HIS:CE1	24:6U:11:LEU:HA	2.41	0.55
1:S6:186:THR:HG22	1:S6:411:ALA:HB1	1.89	0.55
1:S8:309:ARG:H	1:S8:372:THR:HG22	1.71	0.55
1:T6:27:GLU:OE2	1:T6:318:ARG:NH2	2.31	0.55
1:U8:20:PHE:HA	1:U8:230:SER:HB2	1.89	0.55
1:V0:220:PRO:HG2	2:V1:326:LYS:HB2	1.89	0.55
1:V2:138:SER:OG	1:V2:139:LEU:N	2.40	0.55
1:V4:226:ASN:HD21	39:V4:501:GDP:HN1	1.53	0.55
1:X2:51:PHE:HB3	1:X2:59:TYR:HB3	1.88	0.55
2:Y1:301:MET:HE1	2:Y1:307:PRO:HD3	1.89	0.55
2:Y9:121:ARG:HD2	2:Y9:124:LYS:HE3	1.88	0.55
1:Z8:189:VAL:HA	1:Z8:192:LEU:HB3	1.89	0.55
2:Z9:278:ALA:HA	2:Z9:369:ALA:HB2	1.87	0.55
1:0E:165:LEU:HD12	1:0E:167:PHE:CE1	2.42	0.55
2:0J:268:MET:CE	2:0J:380:ASN:HB2	2.36	0.55
2:0L:88:HIS:CE1	2:1B:283:HIS:HA	2.42	0.55
2:0N:156:ARG:HA	2:0N:159:VAL:HG12	1.89	0.55
1:0O:211:CYS:HA	1:0O:215:LEU:HB2	1.89	0.55
1:0U:33:THR:O	1:0U:58:ARG:NH2	2.40	0.55
2:1B:266:HIS:O	2:1B:266:HIS:ND1	2.39	0.55
1:1G:317:PHE:HE2	1:1G:326:VAL:HG13	1.71	0.55
1:1K:301:CYS:SG	1:1K:302:ALA:N	2.80	0.55
2:1X:88:HIS:HB3	2:2N:283:HIS:ND1	2.22	0.55
2:2N:396:ASP:HA	2:2N:399:TYR:HB3	1.87	0.55
2:2T:9:ILE:HG12	2:2T:68:LEU:HD11	1.88	0.55
1:2U:2:ARG:HE	1:2U:240:LEU:HD22	1.72	0.55
1:2U:135:VAL:HG21	1:2U:152:ILE:HD11	1.89	0.55
2:2Z:88:HIS:CD2	2:2Z:90:GLU:HB3	2.42	0.55
2:3B:109:THR:OG1	2:3B:411:GLU:OE2	2.25	0.55
2:3D:172:TYR:CE2	2:3D:203:MET:HG2	2.42	0.55
2:3H:98:ASP:OD1	2:3H:99:ALA:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3J:116:ASP:N	2:3J:116:ASP:OD1	2.40	0.55
1:3M:178:THR:HA	2:3N:352:LYS:HD2	1.89	0.55
1:3O:139:LEU:HD12	1:3O:170:VAL:HG12	1.87	0.55
1:3Q:52:ASN:OD1	1:3Q:62:ARG:NH2	2.40	0.55
1:3Q:68:LEU:HD23	1:3Q:93:GLY:HA3	1.88	0.55
1:3S:263:LEU:O	1:3S:370:ASN:ND2	2.40	0.55
2:3T:26:LEU:HD21	2:3T:363:VAL:HG12	1.89	0.55
2:3T:155:GLU:HB2	2:3T:197:HIS:CE1	2.41	0.55
8:4W:292:MET:O	8:4W:295:MET:HG2	2.07	0.55
9:4Z:192:THR:O	9:4Z:195:ARG:HG3	2.07	0.55
14:5L:34:LEU:HG	14:5L:35:GLY:H	1.72	0.55
14:5M:34:LEU:HG	14:5M:35:GLY:H	1.72	0.55
15:5P:95:LEU:HD23	15:5P:97:MET:H	1.72	0.55
15:5P:274:ASP:OD1	15:5P:275:ARG:N	2.39	0.55
20:6F:65:TYR:CB	20:6F:138:ILE:HD11	2.36	0.55
22:6L:76:LYS:HE2	22:6L:77:PRO:HD2	1.89	0.55
24:6U:92:ASP:OD1	24:6U:92:ASP:N	2.39	0.55
24:6X:473:TYR:CD1	24:6X:517:LEU:HD21	2.42	0.55
24:6Y:278:VAL:HG11	24:6Y:395:VAL:HG11	1.87	0.55
29:7J:316:VAL:HG12	29:7J:317:SER:H	1.71	0.55
29:7J:448:VAL:HG22	29:7J:451:LYS:HB3	1.87	0.55
38:8C:81:VAL:O	38:8C:81:VAL:HG13	2.07	0.55
1:A5:281:TYR:O	1:T8:86:ARG:NH1	2.39	0.55
2:E5:282:TYR:CE1	22:6K:80:GLY:O	2.60	0.55
1:H4:177:ASP:O	2:H5:352:LYS:HA	2.06	0.55
2:H9:63:PRO:HB2	2:H9:65:CYS:SG	2.47	0.55
2:I7:156:ARG:HA	2:I7:159:VAL:HG12	1.89	0.55
1:I8:172:SER:HB3	1:I8:175:VAL:HG22	1.89	0.55
1:I8:177:ASP:O	2:I9:352:LYS:HA	2.07	0.55
2:I9:73:THR:HG21	1:J0:2:ARG:HH22	1.71	0.55
2:J3:88:HIS:CE1	2:J3:121:ARG:HH22	2.25	0.55
1:J4:2:ARG:HE	1:J4:240:LEU:HD22	1.71	0.55
2:K7:384:ILE:HA	2:K7:387:ILE:HD12	1.88	0.55
1:K8:350:LYS:NZ	1:K8:351:SER:O	2.39	0.55
1:L0:68:LEU:HB3	1:L0:96:GLY:HA2	1.88	0.55
1:L2:27:GLU:OE2	1:L2:318:ARG:NH2	2.40	0.55
1:L2:52:ASN:OD1	1:L2:62:ARG:NH2	2.40	0.55
1:M0:190:HIS:CD2	1:M0:411:ALA:HA	2.42	0.55
2:M1:189:LEU:HD11	2:M1:418:PHE:HE1	1.71	0.55
2:M3:73:THR:HA	1:M4:46:ARG:HH21	1.72	0.55
2:M5:8:HIS:NE2	2:M5:17:GLY:HA3	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M6:46:ARG:NH1	37:7Y:115:CYS:HG	2.05	0.55
2:N5:166:LYS:N	2:N5:199:ASP:OD1	2.38	0.55
2:N9:210:TYR:HH	1:O0:323:THR:HG1	1.53	0.55
2:O3:53:PHE:HB3	2:O3:61:HIS:HB3	1.89	0.55
1:O4:276:ARG:HD2	19:6E:68:PRO:O	2.07	0.55
1:P6:272:PRO:HB2	1:P6:282:ARG:HH12	1.71	0.55
1:P8:4:ILE:HB	1:P8:50:TYR:HE1	1.71	0.55
2:R1:161:TYR:CD1	13:5H:124:VAL:HG13	2.41	0.55
1:S6:113:ILE:HD13	1:S6:150:LEU:HD22	1.89	0.55
1:S8:157:GLU:OE2	3:3Z:90:ILE:HG23	2.06	0.55
2:S9:53:PHE:HB3	2:S9:61:HIS:HB3	1.89	0.55
1:T0:391:ARG:HD3	2:T1:346:TRP:NE1	2.22	0.55
1:T2:178:THR:O	1:T2:181:GLU:HG3	2.06	0.55
1:T2:414:ASN:ND2	3:4D:84:LYS:HD2	2.22	0.55
2:U1:312:TYR:HB2	2:U1:343:PHE:HD1	1.71	0.55
1:U2:39:ASP:OD1	1:U2:40:SER:N	2.38	0.55
1:U8:5:VAL:HG12	1:U8:133:PHE:HD1	1.72	0.55
1:W8:248:ALA:HA	1:W8:252:LYS:HD2	1.89	0.55
2:W9:88:HIS:CA	2:Y5:283:HIS:NE2	2.69	0.55
1:X0:40:SER:OG	8:4X:97:PHE:O	2.24	0.55
2:X3:53:PHE:HB3	2:X3:61:HIS:HB3	1.87	0.55
1:X4:172:SER:HB2	1:X4:205:GLU:OE1	2.07	0.55
1:X6:260:PHE:HB2	1:X6:263:LEU:HG	1.89	0.55
2:Y1:90:GLU:H	2:Z7:283:HIS:CE1	2.25	0.55
1:Y4:248:ALA:HA	1:Y4:252:LYS:HD2	1.89	0.55
2:Y5:183:GLU:CD	2:Y5:184:PRO:HD3	2.27	0.55
2:Z3:286:LEU:HD11	2:Z3:372:GLN:HB2	1.89	0.55
1:Z4:285:THR:HB	1:Z4:287:PRO:HD2	1.89	0.55
1:Z6:58:ARG:HD3	1:0M:280:GLN:HE22	1.71	0.55
2:Z9:33:ASP:OD2	2:Z9:35:GLN:NE2	2.40	0.55
2:0J:121:ARG:HD2	2:0J:124:LYS:HE3	1.89	0.55
1:0Q:218:THR:O	2:0R:326:LYS:NZ	2.33	0.55
2:0R:164:LYS:O	2:0R:166:LYS:NZ	2.40	0.55
2:0V:3:GLU:CG	2:0V:129:CYS:HB2	2.37	0.55
2:1B:313:MET:HB2	2:1B:380:ASN:HB3	1.88	0.55
2:1H:50:ASN:O	2:1H:64:ARG:NH2	2.40	0.55
1:1M:317:PHE:HE2	1:1M:326:VAL:HG13	1.72	0.55
1:1Q:301:CYS:SG	1:1Q:302:ALA:N	2.80	0.55
2:1R:264:ARG:NH2	2:1R:431:ASP:OD2	2.33	0.55
1:1S:139:LEU:HD12	1:1S:170:VAL:HG22	1.88	0.55
2:1X:362:VAL:HG11	2:1X:370:LYS:HE3	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2B:287:SER:N	2:2B:290:GLU:OE2	2.38	0.55
2:2F:274:PRO:HB2	2:2F:276:ILE:HG12	1.88	0.55
2:2H:123:ARG:NH2	38:8B:37:TYR:HD2	2.04	0.55
2:2J:336:LYS:O	2:2J:339:ARG:NH2	2.39	0.55
2:2P:84:ARG:HB3	38:8A:188:ARG:NH1	2.17	0.55
1:2S:334:GLN:NE2	1:2S:348:ASN:H	2.02	0.55
2:2X:129:CYS:SG	2:2X:130:THR:N	2.80	0.55
2:3P:88:HIS:HB3	2:3P:91:GLN:HE22	1.72	0.55
2:3T:391:LEU:HD23	2:3T:394:LYS:HD2	1.88	0.55
5:4L:428:THR:HG21	16:5Q:96:GLY:HA2	1.89	0.55
9:4Y:431:GLU:OE1	9:4Y:434:ARG:NH1	2.39	0.55
9:4Z:342:LYS:O	9:4Z:346:LYS:HE3	2.05	0.55
10:5D:132:THR:HA	10:5D:135:ARG:HB2	1.87	0.55
14:5M:365:ARG:HH22	14:5M:377:ARG:NH1	2.04	0.55
20:6F:22:LEU:O	20:6F:26:ILE:HG13	2.07	0.55
21:6G:15:ASP:OD1	21:6G:16:GLU:HG3	2.06	0.55
22:6M:210:MET:O	22:6M:213:THR:HG22	2.07	0.55
23:6R:28:LYS:CE	23:6R:28:LYS:CA	2.85	0.55
24:6T:562:LEU:HD13	24:6T:633:LEU:HD11	1.87	0.55
24:6Y:289:ARG:NH2	24:6Y:397:GLU:OE1	2.40	0.55
24:6Z:130:MET:HG3	24:6Z:153:VAL:HG12	1.87	0.55
36:7W:13:LYS:HA	36:7W:16:GLN:HB3	1.88	0.55
38:7Z:12:LEU:HB3	38:7Z:18:VAL:HG21	1.89	0.55
38:8D:219:LEU:O	38:8D:223:THR:HG22	2.07	0.55
2:8:41:THR:OG1	24:6W:97:ARG:NH1	2.06	0.55
2:A2:40:LYS:HZ1	26:7F:45:MET:CB	1.93	0.55
1:A3:228:LEU:HD21	26:7F:136:PHE:HZ	1.69	0.55
1:A3:340:TYR:HE1	3:4H:103:SER:C	2.09	0.55
1:B1:320:ARG:NH1	18:5Y:53:GLY:HA3	2.22	0.55
2:D7:36:MET:HB2	22:6O:76:LYS:HE2	1.89	0.55
1:E2:320:ARG:NH1	22:6J:115:SER:HA	2.18	0.55
2:G9:182:VAL:HG23	2:G9:186:ASN:HD21	1.72	0.55
2:H3:9:ILE:HG22	2:H3:146:GLY:HA2	1.88	0.55
2:H3:287:SER:OG	2:H3:288:VAL:N	2.40	0.55
1:H6:193:VAL:HG11	1:H6:418:LEU:HD11	1.88	0.55
2:H9:11:GLN:OE1	2:H9:15:GLN:NE2	2.41	0.55
2:H9:90:GLU:HB3	2:H9:121:ARG:HH22	1.71	0.55
2:I1:223:THR:HG23	2:I1:225:THR:H	1.71	0.55
1:I4:51:PHE:O	1:I4:62:ARG:NH2	2.39	0.55
2:J3:357:TYR:HB3	16:5Q:173:ARG:HE	0.43	0.55
1:J4:65:LEU:HD12	1:J4:90:PHE:CE1	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J6:156:ARG:NH2	35:7T:31:SER:OG	2.40	0.55
2:K1:230:LEU:O	2:K1:234:VAL:HG23	2.07	0.55
1:L0:203:ASP:OD2	1:L0:302:ALA:N	2.40	0.55
1:L6:173:PRO:HD2	1:L6:380:ARG:HH21	1.71	0.55
2:M5:405:VAL:HG13	2:M5:418:PHE:HE2	1.70	0.55
1:M6:139:LEU:HD12	1:M6:170:VAL:HG22	1.89	0.55
2:M9:84:ARG:NH1	29:7J:284:ASP:O	2.39	0.55
1:N0:53:GLU:OE2	1:N0:57:GLY:N	2.40	0.55
2:N3:414:GLU:HG2	2:N3:415:GLU:H	1.72	0.55
1:N6:211:CYS:HA	1:N6:215:LEU:HB2	1.89	0.55
2:N7:100:ALA:HA	1:N8:252:LYS:HE3	1.88	0.55
1:O2:52:ASN:OD1	1:O2:62:ARG:NH2	2.39	0.55
1:O8:245:GLN:HG3	32:7P:64:THR:HG21	1.87	0.55
1:Q4:134:GLN:HE21	1:Q4:167:PHE:HE2	1.55	0.55
1:Q4:217:LEU:HD13	20:6F:184:ARG:HH22	1.72	0.55
1:Q6:309:ARG:NH1	1:Q6:339:SER:O	2.40	0.55
2:Q9:8:HIS:CD2	2:Q9:17:GLY:HA3	2.42	0.55
2:S1:26:LEU:HD23	2:S1:363:VAL:HG12	1.89	0.55
1:S4:280:GLN:HB2	7:4T:182:ASP:OD1	2.07	0.55
1:S8:190:HIS:CD2	1:S8:411:ALA:HA	2.42	0.55
1:S8:371:SER:OG	1:S8:372:THR:N	2.39	0.55
1:T2:110:ALA:HB1	3:4D:75:ARG:HE	1.72	0.55
1:U8:329:GLN:HA	1:U8:332:ASN:HD21	1.72	0.55
2:V3:11:GLN:NE2	1:V4:247:ASN:OD1	2.39	0.55
2:V3:26:LEU:HD21	2:V3:363:VAL:HG12	1.89	0.55
1:V6:232:VAL:HG22	1:V6:270:PHE:HB2	1.88	0.55
2:W3:222:PRO:HD2	1:W4:324:LYS:HE3	1.89	0.55
1:W4:30:ILE:HG22	1:W4:36:TYR:HA	1.88	0.55
2:W7:276:ILE:CD1	2:W7:281:ALA:HA	2.35	0.55
1:X6:265:PHE:HE2	1:X6:418:LEU:HD11	1.72	0.55
1:Y6:130:LEU:HB2	1:Y6:162:ARG:HE	1.72	0.55
1:Y8:2:ARG:HB2	1:Y8:240:LEU:HD11	1.88	0.55
2:Z3:167:LEU:HD13	2:Z3:200:VAL:HB	1.89	0.55
1:Z6:186:THR:OG1	1:Z6:187:LEU:HD12	2.07	0.55
2:Z7:65:CYS:SG	2:Z7:66:ILE:N	2.80	0.55
1:Z8:211:CYS:SG	1:Z8:217:LEU:HB2	2.46	0.55
1:Z8:337:ASN:HB2	1:Z8:340:TYR:HD2	1.72	0.55
1:0A:7:ILE:HB	1:0A:135:VAL:HG22	1.89	0.55
2:0H:271:SER:OG	2:0H:300:SER:O	2.19	0.55
1:0I:116:VAL:HA	1:0I:119:VAL:HG12	1.89	0.55
1:0Y:45:GLU:HG2	1:0Y:46:ARG:HG2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0Y:335:ASN:O	1:0Y:338:SER:OG	2.25	0.55
1:1A:207:LEU:HB3	1:1A:225:LEU:HD22	1.89	0.55
2:1D:344:VAL:HG22	2:1D:346:TRP:H	1.70	0.55
2:1F:227:LEU:O	2:1F:231:ILE:HG13	2.06	0.55
1:1K:262:ARG:NH2	1:1K:417:ASP:OD1	2.40	0.55
1:1O:186:THR:HG22	1:1O:411:ALA:HB1	1.88	0.55
2:1R:276:ILE:HD11	2:1R:371:VAL:HG22	1.88	0.55
1:1U:135:VAL:HG21	1:1U:152:ILE:HD11	1.89	0.55
1:1U:287:PRO:HA	1:1U:290:THR:HG22	1.89	0.55
1:2E:345:ILE:HB	1:2E:348:ASN:HD21	1.72	0.55
1:2I:214:THR:O	1:2I:275:SER:OG	2.21	0.55
2:2P:265:ILE:HG13	2:2P:265:ILE:O	2.07	0.55
2:2T:211:ASP:OD2	2:2T:304:LYS:NZ	2.40	0.55
2:2V:205:ASP:OD2	2:2V:206:ASN:N	2.39	0.55
2:2X:11:GLN:NE2	2:2X:71:GLU:OE2	2.40	0.55
1:2Y:325:GLU:O	1:2Y:329:GLN:HG2	2.07	0.55
2:3D:251:ASP:OD1	2:3D:254:GLU:HG3	2.07	0.55
2:3H:289:ALA:O	2:3H:293:ASN:ND2	2.39	0.55
2:3P:417:GLU:HA	2:3P:420:GLU:HG2	1.89	0.55
2:3R:305:CYS:HB3	2:3R:387:ILE:HD11	1.88	0.55
3:4B:210:ASP:OD2	3:4B:213:VAL:HB	2.06	0.55
7:4U:120:ASP:HB3	7:4U:123:LEU:HD23	1.88	0.55
7:4U:239:SER:HA	31:7N:8:ASP:OD1	2.07	0.55
10:5A:429:LYS:O	10:5A:432:GLU:HG3	2.06	0.55
14:5M:365:ARG:HH12	14:5M:377:ARG:NH1	2.03	0.55
14:5M:505:THR:OG1	14:5M:506:SER:N	2.39	0.55
16:5Q:148:ARG:HG3	16:5Q:149:GLY:H	1.72	0.55
22:6M:107:GLU:HA	22:6M:107:GLU:OE2	2.06	0.55
24:6U:565:GLN:NE2	24:6U:602:LEU:HB2	2.22	0.55
24:6W:135:PRO:HG2	24:6W:137:GLN:HE22	1.71	0.55
24:6X:445:ILE:HD12	24:6X:445:ILE:N	2.22	0.55
24:6Y:135:PRO:HG2	24:6Y:137:GLN:HE22	1.72	0.55
24:6Z:274:ARG:HD3	24:6Z:295:HIS:HE1	1.72	0.55
24:6Z:455:THR:OG1	24:6Z:456:ASP:N	2.40	0.55
24:6Z:556:ASP:OD1	24:6Z:557:VAL:N	2.39	0.55
29:7J:390:LEU:HG	29:7J:391:PRO:CD	2.36	0.55
28:7X:402:ARG:O	28:7X:402:ARG:HG3	2.06	0.55
38:8C:25:ILE:HG13	38:8C:26:THR:N	2.22	0.55
1:5:45:GLU:HG3	18:5Y:35:LEU:HD12	1.88	0.54
1:B5:362:LYS:HZ3	18:6A:24:ARG:HD3	1.66	0.54
2:D7:280:LYS:HZ1	18:6D:166:HIS:HB3	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G4:134:GLN:HE21	1:G4:167:PHE:HE2	1.55	0.54
1:G6:2:ARG:HB3	1:G6:131:GLN:HB2	1.89	0.54
2:H1:417:GLU:HA	2:H1:420:GLU:HG2	1.89	0.54
2:H5:111:GLY:HA2	2:H5:114:ILE:HG22	1.89	0.54
1:H6:219:THR:OG1	2:H7:324:VAL:HG11	2.07	0.54
1:H6:276:ARG:CZ	24:6V:490:THR:C	2.76	0.54
1:I2:350:LYS:NZ	1:I2:352:SER:OG	2.40	0.54
2:I9:37:PRO:CB	28:7H:401:THR:OG1	2.51	0.54
1:J2:135:VAL:HG21	1:J2:152:ILE:HD11	1.89	0.54
2:J5:372:GLN:NE2	5:4M:148:LEU:HA	2.21	0.54
2:J9:79:ARG:NH1	2:J9:92:LEU:O	2.40	0.54
1:K0:179:VAL:HG22	2:K1:258:ASN:HD22	1.71	0.54
1:L4:27:GLU:OE2	1:L4:318:ARG:NH2	2.40	0.54
2:L7:15:GLN:HG2	2:L7:224:TYR:HE2	1.72	0.54
2:M5:121:ARG:HA	2:M5:121:ARG:NH1	2.14	0.54
1:M6:52:ASN:OD1	1:M6:62:ARG:NH2	2.39	0.54
1:O0:309:ARG:NH1	1:O0:339:SER:O	2.40	0.54
2:P5:129:CYS:SG	2:P5:130:THR:N	2.79	0.54
2:Q9:97:GLU:OE1	2:Q9:105:ARG:NH2	2.39	0.54
2:R7:156:ARG:HA	2:R7:159:VAL:HG12	1.89	0.54
2:R9:7:ILE:HD12	2:R9:153:LEU:HD21	1.88	0.54
2:S5:267:PHE:HB2	2:S5:384:ILE:HD12	1.89	0.54
1:S8:237:THR:HG23	1:S8:241:ARG:HE	1.72	0.54
2:T1:325:PRO:HA	2:T1:328:VAL:HG12	1.88	0.54
1:U2:418:LEU:O	1:U2:421:GLU:HG2	2.07	0.54
2:U5:31:GLN:OE1	2:U5:35:GLN:NE2	2.36	0.54
1:U6:5:VAL:HG12	1:U6:133:PHE:HD1	1.70	0.54
1:U6:118:ASP:O	1:U6:122:LYS:HG2	2.07	0.54
2:V7:203:MET:O	2:V7:204:LEU:HD23	2.06	0.54
2:W9:84:ARG:HG3	2:W9:84:ARG:HH11	1.71	0.54
2:X3:324:VAL:HB	2:X3:326:LYS:HZ3	1.72	0.54
2:X5:25:CYS:SG	2:X5:86:LEU:HD11	2.47	0.54
2:X9:89:PRO:HD2	2:Z5:283:HIS:ND1	2.22	0.54
2:Y3:236:SER:OG	2:Y3:243:ARG:NH2	2.41	0.54
1:Z0:273:LEU:H	1:Z0:292:GLN:HE22	1.54	0.54
1:Z2:317:PHE:HB2	1:Z2:353:VAL:HG12	1.89	0.54
1:Z4:52:ASN:OD1	1:Z4:62:ARG:NH2	2.40	0.54
2:Z5:399:TYR:O	2:Z5:402:ARG:NH1	2.40	0.54
1:0E:51:PHE:HB3	1:0E:59:TYR:HB3	1.88	0.54
1:0K:272:PRO:HB2	1:0K:282:ARG:HH12	1.72	0.54
2:0L:56:THR:HA	2:1B:285:GLN:HB2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0M:200:MET:HE3	1:0M:268:VAL:HG21	1.89	0.54
1:0O:121:ARG:NH2	1:0O:158:GLU:OE2	2.41	0.54
1:0Y:301:CYS:SG	1:0Y:302:ALA:N	2.80	0.54
1:1A:8:GLN:CD	1:1A:17:GLY:HA3	2.28	0.54
2:1B:145:THR:OG1	41:1C:501:GTP:O1B	2.23	0.54
1:1C:180:VAL:HG23	1:1C:184:ASN:ND2	2.22	0.54
2:1L:88:HIS:CG	2:1L:89:PRO:HD2	2.42	0.54
1:1O:165:LEU:HG	1:1O:250:LEU:HD11	1.89	0.54
2:1R:183:GLU:HG3	2:1R:184:PRO:HD3	1.89	0.54
1:1S:135:VAL:HG21	1:1S:152:ILE:HD11	1.89	0.54
1:1S:248:ALA:HA	1:1S:252:LYS:HD2	1.89	0.54
2:1T:122:ILE:HA	2:1T:125:LEU:HB2	1.88	0.54
1:1W:379:LYS:HG3	1:1W:419:VAL:HG11	1.89	0.54
2:1Z:88:HIS:HB3	2:1Z:91:GLN:CG	2.31	0.54
2:1Z:318:MET:HE1	2:1Z:354:GLY:HA3	1.89	0.54
1:2A:3:GLU:HB2	1:2A:130:LEU:HA	1.89	0.54
2:2B:264:ARG:NH2	2:2B:431:ASP:OD2	2.37	0.54
2:2P:287:SER:N	2:2P:290:GLU:OE2	2.39	0.54
2:2R:248:LEU:HD22	2:2R:354:GLY:HA2	1.89	0.54
2:2R:417:GLU:HA	2:2R:420:GLU:HG2	1.87	0.54
1:2U:309:ARG:NH1	1:2U:341:PHE:O	2.40	0.54
2:2X:41:THR:HG21	14:5M:144:PRO:HD3	1.88	0.54
2:3B:339:ARG:HG2	38:8C:39:LYS:HZ2	1.72	0.54
2:3J:384:ILE:HA	2:3J:387:ILE:HD12	1.89	0.54
3:3X:210:ASP:OD2	3:3X:213:VAL:HB	2.06	0.54
3:4F:210:ASP:OD2	3:4F:213:VAL:HB	2.06	0.54
3:4J:137:ARG:O	3:4J:141:ASN:ND2	2.40	0.54
6:4O:349:ASP:O	6:4O:353:LYS:HG3	2.07	0.54
10:5B:175:ALA:O	10:5B:178:GLU:HG3	2.06	0.54
15:5O:56:LYS:HE2	15:5O:59:LEU:HD23	1.88	0.54
15:5O:226:ARG:NH1	15:5O:226:ARG:CB	2.70	0.54
17:5S:179:GLN:OE1	17:5S:179:GLN:HA	2.06	0.54
19:6E:72:GLU:HG2	19:6E:77:GLN:NE2	2.22	0.54
19:6E:201:THR:O	19:6E:205:SER:N	2.40	0.54
20:6F:379:ARG:HB3	20:6F:380:PRO:HD2	1.90	0.54
22:6L:177:LEU:HD23	22:6L:187:MET:HE2	1.88	0.54
24:6U:92:ASP:CG	24:6U:93:ARG:H	2.10	0.54
24:6Z:310:GLU:OE1	24:6Z:310:GLU:HA	2.07	0.54
24:6Z:503:ILE:HG21	24:6Z:525:VAL:HG22	1.88	0.54
29:7I:23:ILE:HG12	29:7I:24:PRO:HD2	1.89	0.54
36:7V:13:LYS:HA	36:7V:16:GLN:HB3	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:7Y:177:ARG:HH11	37:7Y:177:ARG:CB	2.20	0.54
1:A3:245:GLN:HG3	26:7F:113:ARG:NH1	2.21	0.54
1:E6:32:PRO:HG3	24:6W:402:LYS:HE3	1.89	0.54
1:G0:177:ASP:O	2:G1:352:LYS:HA	2.07	0.54
1:G4:379:LYS:HA	1:G4:382:SER:HG	1.72	0.54
1:G6:371:SER:OG	1:G6:372:THR:N	2.39	0.54
2:H7:267:PHE:HB2	2:H7:384:ILE:HD12	1.89	0.54
1:I0:2:ARG:HB3	1:I0:131:GLN:HB2	1.89	0.54
1:I0:371:SER:OG	1:I0:372:THR:N	2.40	0.54
2:I3:109:THR:OG1	2:I3:411:GLU:OE2	2.25	0.54
2:I9:31:GLN:NE2	2:I9:35:GLN:O	2.40	0.54
2:J5:42:ILE:HG21	5:4L:478:ARG:NH2	2.22	0.54
2:J5:88:HIS:HB3	2:L1:283:HIS:ND1	2.23	0.54
1:J6:220:PRO:HD2	2:J7:326:LYS:HD2	1.88	0.54
2:J7:80:THR:O	29:7J:390:LEU:HG	2.08	0.54
2:K1:216:SER:OG	2:K1:275:ILE:O	2.24	0.54
1:K4:5:VAL:HG22	1:K4:133:PHE:HD1	1.71	0.54
2:K5:245:ASP:N	2:K5:245:ASP:OD1	2.40	0.54
1:L4:27:GLU:CD	1:L4:241:ARG:HH12	2.11	0.54
2:L5:265:ILE:HD11	2:L5:435:VAL:HG21	1.89	0.54
2:N9:175:PRO:HB3	2:N9:390:ARG:HE	1.71	0.54
1:O2:91:VAL:HG11	1:O2:116:VAL:HG12	1.90	0.54
2:O3:223:THR:HG23	2:O3:225:THR:H	1.72	0.54
1:O4:212:PHE:CZ	2:O5:326:LYS:HD2	2.42	0.54
2:O5:407:TRP:O	2:O5:411:GLU:HG2	2.07	0.54
2:O7:267:PHE:HB2	2:O7:384:ILE:HD12	1.89	0.54
1:O8:39:ASP:N	1:O8:39:ASP:OD1	2.40	0.54
1:O8:177:ASP:O	2:O9:352:LYS:HA	2.06	0.54
2:P5:249:ASN:HD21	27:7G:184:LYS:N	2.05	0.54
1:P6:8:GLN:OE1	1:P6:17:GLY:HA3	2.07	0.54
1:Q4:107:THR:OG1	1:Q4:108:GLU:OE1	2.17	0.54
2:Q5:114:ILE:HG21	2:Q5:149:LEU:HD22	1.88	0.54
2:S1:69:ASP:OD1	2:S1:70:LEU:N	2.39	0.54
1:S2:320:ARG:NH1	12:5F:72:ALA:O	2.37	0.54
2:S5:5:ILE:HG22	2:S5:64:ARG:HB3	1.87	0.54
1:S8:174:LYS:HD2	13:5I:14:PHE:CD2	2.43	0.54
1:T0:52:ASN:OD1	1:T0:62:ARG:NH2	2.40	0.54
1:T0:139:LEU:HD12	1:T0:170:VAL:HG12	1.88	0.54
1:T0:145:SER:HG	1:T0:188:SER:HG	1.56	0.54
1:T0:320:ARG:HE	7:4T:349:LEU:HD21	1.73	0.54
2:T1:76:ASP:HA	2:T1:79:ARG:HD2	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T1:394:LYS:HB2	1:T2:346:PRO:HG3	1.88	0.54
2:T3:369:ALA:HA	7:4U:92:GLN:HE21	1.72	0.54
2:U1:56:THR:HA	2:V7:285:GLN:HB2	1.88	0.54
2:U7:88:HIS:ND1	2:U7:89:PRO:CD	2.69	0.54
2:U9:56:THR:HA	2:W5:285:GLN:HB2	1.89	0.54
1:W0:309:ARG:H	1:W0:372:THR:HG22	1.72	0.54
2:W1:154:LEU:HD21	2:W1:198:THR:HG22	1.89	0.54
1:W4:173:PRO:HG2	1:W4:174:LYS:HZ2	1.71	0.54
1:W6:324:LYS:O	1:W6:328:GLU:HG2	2.08	0.54
1:X2:31:ASP:OD2	1:X2:33:THR:OG1	2.16	0.54
2:X5:62:VAL:HB	2:X5:88:HIS:CE1	2.41	0.54
2:Z5:70:LEU:HG	2:Z5:145:THR:HG23	1.88	0.54
2:Z5:287:SER:OG	2:Z5:288:VAL:N	2.38	0.54
1:0A:52:ASN:OD1	1:0A:62:ARG:NH2	2.41	0.54
1:0A:125:GLU:OE2	1:0A:159:TYR:OH	2.24	0.54
2:0H:121:ARG:HD2	2:0H:124:LYS:HE3	1.88	0.54
2:0H:401:LYS:HD2	1:0I:344:TRP:CD2	2.42	0.54
2:0N:12:ALA:HB2	41:0O:501:GTP:C8	2.42	0.54
1:0Q:210:ILE:O	1:0Q:214:THR:OG1	2.17	0.54
1:1C:121:ARG:NH2	1:1C:158:GLU:OE2	2.40	0.54
1:1C:210:ILE:O	1:1C:214:THR:OG1	2.19	0.54
1:1C:388:MET:CE	2:1D:348:PRO:HD2	2.32	0.54
2:1D:109:THR:HB	2:1D:110:ILE:HD12	1.89	0.54
1:1E:242:PHE:CD1	1:1E:356:ILE:HG13	2.41	0.54
2:1P:119:LEU:HD11	2:1P:156:ARG:HD3	1.89	0.54
1:1S:221:THR:HG23	1:1S:223:GLY:H	1.72	0.54
2:1Z:217:LEU:HD21	2:1Z:367:ASP:HB2	1.90	0.54
2:2F:14:ILE:HD11	2:2F:74:VAL:HG13	1.89	0.54
2:2J:399:TYR:O	2:2J:402:ARG:NH1	2.40	0.54
1:2K:2:ARG:HE	1:2K:240:LEU:HD22	1.72	0.54
1:2M:144:GLY:N	39:2M:501:GDP:O1B	2.40	0.54
2:2P:274:PRO:HB2	2:2P:276:ILE:HG12	1.87	0.54
2:3F:205:ASP:OD2	2:3F:207:GLU:N	2.36	0.54
1:3O:167:PHE:CZ	1:3O:233:MET:HG2	2.42	0.54
2:3R:202:VAL:HG22	2:3R:268:MET:HB2	1.89	0.54
5:4L:311:ARG:O	5:4L:315:ARG:HG3	2.08	0.54
5:4M:249:ASP:O	5:4M:252:GLU:HG3	2.06	0.54
6:4P:181:GLU:O	6:4P:184:GLU:HG3	2.08	0.54
7:4R:12:ASP:OD1	7:4R:14:GLU:CD	2.30	0.54
7:4R:357:GLU:OE1	12:5F:67:GLY:N	2.40	0.54
8:4V:391:GLU:HG3	8:4V:395:ARG:NH1	2.17	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:5F:310:VAL:HG13	12:5F:311:HIS:HD2	1.71	0.54
14:5N:511:THR:HG23	14:5N:512:PHE:O	2.07	0.54
19:6E:186:THR:HG23	19:6E:188:MET:HG3	1.88	0.54
22:6N:209:ASN:O	22:6N:213:THR:HG23	2.06	0.54
24:6U:559:ILE:O	24:6U:563:LYS:HG2	2.06	0.54
24:6X:95:VAL:HG11	24:6X:124:TYR:CD2	2.41	0.54
24:6Y:113:ASN:OD1	24:6Y:114:HIS:ND1	2.33	0.54
24:7A:185:ASP:OD1	24:7A:186:SER:N	2.39	0.54
31:7N:71:THR:OG1	31:7N:72:THR:N	2.38	0.54
31:7N:75:PRO:HB2	31:7N:78:HIS:HD2	1.71	0.54
1:A7:276:ARG:NH1	24:6T:210:VAL:HG11	2.23	0.54
1:B8:79:GLY:HA3	24:6Y:221:ARG:HH22	1.72	0.54
1:G4:414:ASN:HA	1:G4:417:ASP:OD2	2.07	0.54
1:G8:180:VAL:HG23	1:G8:184:ASN:ND2	2.22	0.54
2:G9:221:ARG:NH1	22:6P:177:LEU:O	2.40	0.54
2:H5:9:ILE:HG22	2:H5:146:GLY:HA2	1.88	0.54
1:H6:271:THR:HG21	1:H6:293:MET:HG3	1.90	0.54
2:I1:132:LEU:HD22	2:I1:164:LYS:HD3	1.90	0.54
2:I3:296:PHE:HE1	2:I3:377:MET:HG3	1.72	0.54
2:J5:90:GLU:OE1	2:J5:121:ARG:NH1	2.40	0.54
2:K3:9:ILE:HG22	2:K3:68:LEU:HD21	1.88	0.54
1:L4:345:ILE:O	1:L4:348:ASN:ND2	2.38	0.54
2:M1:217:LEU:HD11	2:M1:275:ILE:HD11	1.89	0.54
1:M6:41:ASP:HB2	37:7Y:138:ARG:HH22	1.72	0.54
2:M9:221:ARG:NE	29:7J:308:LEU:O	2.27	0.54
2:N1:35:GLN:OE1	2:N1:35:GLN:N	2.40	0.54
2:N5:229:ARG:NH2	32:7O:68:SER:O	2.41	0.54
2:N9:280:LYS:HA	2:N9:283:HIS:HB3	1.90	0.54
2:O1:14:ILE:HD11	2:O1:74:VAL:HG13	1.88	0.54
1:O4:173:PRO:O	1:O4:176:SER:OG	2.26	0.54
2:O7:346:TRP:HZ2	2:O7:435:VAL:CG2	2.20	0.54
2:P3:56:THR:HA	2:Q9:285:GLN:HB2	1.89	0.54
1:Q0:3:GLU:HG3	1:Q0:127:CYS:HB2	1.88	0.54
1:R0:70:PRO:N	1:R0:92:PHE:HZ	2.04	0.54
1:R2:177:ASP:N	1:R2:181:GLU:OE2	2.40	0.54
1:R2:186:THR:HG23	1:R2:415:MET:HG3	1.89	0.54
2:R5:42:ILE:HA	11:5E:242:ILE:HD12	1.88	0.54
2:R7:137:VAL:HG11	2:R7:154:LEU:HD11	1.89	0.54
2:R7:267:PHE:HB2	2:R7:384:ILE:HD12	1.89	0.54
2:S1:117:LEU:HD11	13:5K:87:PRO:HD2	1.89	0.54
2:S1:132:LEU:HD23	2:S1:164:LYS:HE3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S7:352:LYS:NZ	2:S7:353:CYS:O	2.40	0.54
2:S9:174:SER:HB3	2:S9:177:VAL:O	2.06	0.54
1:T2:91:VAL:HG21	1:T2:116:VAL:HG12	1.89	0.54
1:T2:106:TYR:CE2	3:4D:78:PRO:HA	2.42	0.54
2:T3:176:GLN:NE2	2:T3:207:GLU:OE2	2.40	0.54
1:T4:285:THR:OG1	1:T4:287:PRO:HD2	2.07	0.54
2:U1:317:LEU:HB3	2:U1:319:TYR:HE1	1.72	0.54
2:V1:35:GLN:HB3	2:V1:59:GLY:O	2.07	0.54
1:V8:10:GLY:HA2	1:V8:143:THR:HG23	1.88	0.54
2:W1:399:TYR:O	2:W1:402:ARG:NH1	2.40	0.54
1:X4:58:ARG:HH11	1:X4:84:ILE:HA	1.72	0.54
1:X6:100:ASN:HB3	1:X6:103:LYS:HB2	1.90	0.54
1:Y0:64:ILE:HG13	1:Y0:120:VAL:HG22	1.87	0.54
1:Y8:263:LEU:HD13	1:Y8:422:TYR:CZ	2.43	0.54
1:Z4:249:ASP:O	1:Z4:253:LEU:HG	2.07	0.54
1:Z6:344:TRP:CE3	1:Z6:345:ILE:HG13	2.42	0.54
2:0H:222:PRO:HD2	1:0I:324:LYS:HE3	1.89	0.54
1:0I:202:LEU:HD11	1:0I:300:MET:HE3	1.89	0.54
1:0I:293:MET:HE3	1:0I:367:PHE:HB2	1.89	0.54
2:0N:56:THR:N	2:0N:60:LYS:O	2.40	0.54
1:0Q:311:LEU:HD23	1:0Q:312:THR:HG23	1.88	0.54
1:0Y:31:ASP:OD2	1:0Y:33:THR:OG1	2.16	0.54
2:1D:240:ALA:O	2:1D:356:ASN:ND2	2.40	0.54
1:1M:135:VAL:O	1:1M:166:THR:HA	2.07	0.54
1:1M:404:ASP:HB3	1:1M:406:MET:SD	2.47	0.54
2:1P:88:HIS:CG	2:2F:283:HIS:HA	2.42	0.54
1:1Q:287:PRO:HA	1:1Q:290:THR:HG22	1.88	0.54
2:1R:381:SER:OG	2:1R:382:THR:N	2.39	0.54
2:1T:317:LEU:HB3	2:1T:319:TYR:HE1	1.71	0.54
1:1U:317:PHE:HB3	1:1U:321:MET:SD	2.47	0.54
1:2G:418:LEU:HG	1:2G:422:TYR:HE2	1.72	0.54
1:2M:135:VAL:HG11	1:2M:152:ILE:HD11	1.89	0.54
1:2Y:5:VAL:HG22	1:2Y:133:PHE:HD1	1.72	0.54
2:3N:79:ARG:NH1	2:3N:94:SER:OG	2.40	0.54
1:3O:271:THR:HG21	1:3O:293:MET:HG3	1.89	0.54
6:4O:97:ARG:HA	30:7K:445:HIS:CE1	2.41	0.54
10:5C:254:MET:O	10:5C:258:ILE:HG12	2.07	0.54
15:5O:118:PHE:HB3	15:5O:163:LEU:HD12	1.90	0.54
15:5O:241:LEU:HB2	15:5O:357:HIS:HB3	1.89	0.54
20:6F:57:LEU:HD11	20:6F:73:GLN:HG2	1.90	0.54
22:6P:138:ASP:N	22:6P:138:ASP:OD1	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:6U:442:ASP:OD1	24:6U:443:LYS:HG3	2.07	0.54
24:6W:452:MET:HA	24:6W:530:PHE:HA	1.88	0.54
24:6W:591:ASP:OD1	24:6W:591:ASP:N	2.41	0.54
24:6X:135:PRO:HG2	24:6X:137:GLN:HE22	1.73	0.54
29:7I:78:LYS:N	29:7I:81:ASP:OD1	2.37	0.54
2:B4:278:ALA:HB3	18:6A:43:ASN:HD22	1.71	0.54
1:G2:198:GLU:HA	1:G2:264:HIS:HB2	1.89	0.54
1:G2:218:THR:OG1	24:6W:418:ASP:OD1	2.26	0.54
1:G2:276:ARG:HD2	24:6W:410:PHE:HA	1.89	0.54
1:G6:121:ARG:NH2	1:G6:158:GLU:OE2	2.39	0.54
1:I2:272:PRO:HB2	1:I2:282:ARG:HH12	1.71	0.54
2:I9:255:PHE:HA	2:I9:259:LEU:HD13	1.89	0.54
2:I9:399:TYR:O	2:I9:402:ARG:NH1	2.40	0.54
2:J3:88:HIS:CG	2:J3:89:PRO:HD2	2.42	0.54
2:J5:9:ILE:HG12	2:J5:68:LEU:HD21	1.88	0.54
2:J7:392:ASP:OD2	2:J7:422:ARG:NH1	2.40	0.54
1:L2:362:LYS:HD3	6:4O:389:ARG:HH22	1.73	0.54
1:L6:138:SER:OG	1:L6:139:LEU:N	2.41	0.54
2:L7:129:CYS:SG	2:L7:130:THR:N	2.80	0.54
2:L7:386:GLU:O	2:L7:390:ARG:HG3	2.08	0.54
1:M6:75:SER:HB2	15:5P:48:LYS:NZ	2.22	0.54
2:M9:296:PHE:HE2	2:M9:335:ILE:HG13	1.72	0.54
2:N3:122:ILE:HA	2:N3:125:LEU:HB2	1.87	0.54
2:O1:116:ASP:OD1	2:O1:156:ARG:NH1	2.35	0.54
1:O2:362:LYS:HG3	37:7Y:230:PRO:HA	1.89	0.54
1:O2:393:ALA:HB1	2:O3:346:TRP:HE1	1.71	0.54
2:O9:109:THR:OG1	2:O9:411:GLU:OE2	2.20	0.54
1:Q4:237:THR:HG23	1:Q4:240:LEU:HD12	1.89	0.54
1:Q8:116:VAL:HA	1:Q8:119:VAL:HG12	1.88	0.54
1:R0:80:PRO:HD2	7:4R:11:GLU:OE2	2.07	0.54
1:R0:284:LEU:HB3	7:4Q:352:ASN:HB3	1.88	0.54
2:R5:286:LEU:O	2:R5:373:ARG:NH1	2.39	0.54
1:S2:94:GLN:HB2	13:5K:119:VAL:O	2.07	0.54
1:T0:49:VAL:HG11	1:T0:241:ARG:HG2	1.89	0.54
2:T1:27:GLU:OE1	2:T1:243:ARG:NH1	2.41	0.54
1:T2:260:PHE:HB2	1:T2:263:LEU:HG	1.89	0.54
1:T8:333:VAL:CG1	13:5K:102:ALA:HB3	2.38	0.54
2:V7:236:SER:O	2:V7:243:ARG:NH2	2.35	0.54
2:V7:313:MET:HB2	2:V7:380:ASN:HB3	1.87	0.54
1:W4:105:HIS:CD2	1:W4:150:LEU:HB2	2.43	0.54
2:W9:313:MET:HB2	2:W9:380:ASN:HB3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X2:77:ARG:O	1:X2:83:GLN:NE2	2.40	0.54
1:X4:319:GLY:HA2	1:X4:357:PRO:HD3	1.89	0.54
2:X7:26:LEU:HD21	2:X7:363:VAL:HG12	1.90	0.54
1:Y0:3:GLU:HB2	1:Y0:130:LEU:HA	1.88	0.54
1:Y4:130:LEU:HB2	1:Y4:162:ARG:HE	1.72	0.54
1:Y4:249:ASP:O	1:Y4:253:LEU:HG	2.07	0.54
1:Z4:386:THR:HB	1:Z4:390:ARG:CZ	2.37	0.54
1:Z6:49:VAL:HG11	1:Z6:241:ARG:HG2	1.89	0.54
2:Z9:172:TYR:HH	2:Z9:388:PHE:HZ	1.54	0.54
2:0H:65:CYS:SG	2:0H:66:ILE:N	2.81	0.54
1:0M:4:ILE:HG22	1:0M:49:VAL:HG22	1.90	0.54
2:0N:71:GLU:HG3	2:0N:98:ASP:HB3	1.88	0.54
2:0R:381:SER:OG	2:0R:382:THR:N	2.39	0.54
2:2B:58:ALA:HB3	10:5C:211:ARG:HH22	1.72	0.54
1:2I:391:ARG:HD2	2:2J:346:TRP:CE2	2.42	0.54
1:2M:77:ARG:HH21	1:2M:90:PHE:HD2	1.55	0.54
2:2R:264:ARG:NH2	2:2R:431:ASP:OD2	2.40	0.54
1:2S:211:CYS:HB3	1:2S:217:LEU:HD12	1.89	0.54
2:2T:304:LYS:HZ3	38:8A:20:SER:HG	1.50	0.54
2:2T:392:ASP:OD2	2:2T:422:ARG:NH1	2.40	0.54
2:2Z:189:LEU:HD11	2:2Z:418:PHE:HE1	1.73	0.54
2:3B:5:ILE:HD11	2:3B:135:PHE:CE1	2.42	0.54
2:3H:222:PRO:HD2	1:3I:324:LYS:HE3	1.88	0.54
1:3K:114:ASP:N	1:3K:114:ASP:OD1	2.41	0.54
1:3K:214:THR:HG23	1:3K:297:LYS:HZ2	1.72	0.54
1:3K:335:ASN:O	1:3K:338:SER:OG	2.25	0.54
2:3L:287:SER:N	2:3L:290:GLU:OE2	2.27	0.54
2:3R:76:ASP:OD2	1:3S:46:ARG:NH2	2.40	0.54
1:3S:173:PRO:HD3	1:3S:380:ARG:HH12	1.71	0.54
1:3S:233:MET:O	1:3S:236:ILE:HG22	2.08	0.54
2:3T:128:ASN:HA	3:4J:171:PRO:HB3	1.88	0.54
2:3T:284:GLU:OE1	2:3T:286:LEU:HG	2.07	0.54
3:3V:210:ASP:OD2	3:3V:213:VAL:HB	2.06	0.54
4:3Y:61:CYS:HB3	4:3Y:62:PRO:HD3	1.89	0.54
3:3Z:210:ASP:OD2	3:3Z:213:VAL:HB	2.06	0.54
4:4A:79:ILE:HB	4:4A:163:ARG:O	2.07	0.54
3:4D:210:ASP:OD2	3:4D:213:VAL:HB	2.06	0.54
5:4M:293:LEU:HB3	28:7X:306:LEU:HD21	1.83	0.54
9:4Z:367:GLU:O	9:4Z:371:LYS:HG2	2.07	0.54
10:5B:99:LYS:O	10:5B:103:GLU:HG2	2.07	0.54
11:5E:196:VAL:HG12	11:5E:197:LEU:HD23	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:5F:278:VAL:H	12:5F:292:LEU:HD23	1.71	0.54
14:5L:113:CYS:SG	14:5L:159:SER:HB3	2.47	0.54
14:5L:349:PRO:HG2	14:5L:352:TYR:HB3	1.90	0.54
14:5L:509:ALA:HB3	14:5L:513:PHE:HZ	1.71	0.54
14:5M:349:PRO:HG2	14:5M:352:TYR:HB3	1.90	0.54
14:5N:349:PRO:HG2	14:5N:352:TYR:HB3	1.90	0.54
21:6H:37:ILE:HG12	21:6H:40:PHE:HB3	1.90	0.54
22:6J:172:ARG:NH2	22:6J:215:GLY:O	2.40	0.54
24:6T:282:ARG:NH1	24:6T:289:ARG:HD3	2.23	0.54
24:6V:271:LYS:HD2	24:6V:271:LYS:N	2.23	0.54
24:6X:132:VAL:HG12	24:6X:147:PHE:HB3	1.89	0.54
24:7A:171:THR:HG22	24:7A:180:TYR:HD1	1.72	0.54
29:7J:316:VAL:HG13	29:7J:341:GLU:HA	1.88	0.54
1:G4:78:SER:HB2	24:6X:499:GLU:H	1.71	0.54
2:G5:116:ASP:N	2:G5:116:ASP:OD1	2.39	0.54
1:G6:216:LYS:C	24:6Y:422:ASN:HD21	2.09	0.54
2:G7:70:LEU:HG	2:G7:145:THR:HG23	1.89	0.54
2:G7:111:GLY:HA2	2:G7:114:ILE:HG22	1.89	0.54
1:I0:219:THR:HA	2:I1:326:LYS:NZ	2.22	0.54
2:I1:387:ILE:HG12	2:I1:390:ARG:HH22	1.72	0.54
1:J2:2:ARG:HE	1:J2:240:LEU:HD22	1.72	0.54
2:J5:129:CYS:SG	2:J5:130:THR:N	2.80	0.54
1:K4:72:THR:O	1:K4:76:VAL:HG23	2.08	0.54
2:K5:98:ASP:OD1	2:K5:99:ALA:N	2.41	0.54
2:L3:129:CYS:SG	2:L3:130:THR:N	2.80	0.54
1:L6:178:THR:HG23	1:L6:181:GLU:HG3	1.88	0.54
2:M3:129:CYS:SG	2:M3:130:THR:N	2.80	0.54
1:O2:245:GLN:HE21	37:7Y:237:ILE:HG13	1.73	0.54
1:O8:145:SER:OG	1:O8:188:SER:OG	2.16	0.54
1:Q2:135:VAL:HG21	1:Q2:152:ILE:HD11	1.90	0.54
2:R7:220:GLU:HG2	2:R7:221:ARG:HG3	1.90	0.54
1:T0:274:THR:HG21	1:T0:282:ARG:HD2	1.88	0.54
1:T2:203:ASP:N	1:T2:203:ASP:OD2	2.41	0.54
2:T5:165:SER:HB2	2:T5:256:GLN:HE22	1.72	0.54
2:T5:206:ASN:OD1	41:T6:501:GTP:N2	2.41	0.54
1:U2:276:ARG:NH1	1:U2:279:GLN:HB3	2.19	0.54
2:U3:191:THR:HA	2:U3:194:LEU:HB2	1.88	0.54
1:V2:224:ASP:OD2	6:4P:33:ARG:NH2	2.40	0.54
1:W4:100:ASN:HB3	1:W4:103:LYS:HB2	1.87	0.54
1:X2:11:GLN:HG3	1:X2:72:THR:CG2	2.36	0.54
1:X4:51:PHE:HB3	1:X4:59:TYR:HB3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X5:5:ILE:HD11	2:X5:135:PHE:CE1	2.41	0.54
1:X6:161:ASP:OD1	1:X6:161:ASP:N	2.41	0.54
2:X7:191:THR:HA	2:X7:194:LEU:HG	1.88	0.54
2:Y3:109:THR:OG1	2:Y3:411:GLU:OE2	2.22	0.54
1:Y4:139:LEU:HD12	1:Y4:170:VAL:HG12	1.90	0.54
2:Z1:377:MET:SD	2:Z1:379:SER:HB2	2.47	0.54
1:Z2:58:ARG:HD3	1:O1:280:GLN:HE22	1.72	0.54
2:0B:34:GLY:HA3	2:0B:60:LYS:HZ2	1.72	0.54
2:0J:75:VAL:HG12	2:0J:79:ARG:HE	1.73	0.54
1:0Y:72:THR:O	1:0Y:76:VAL:HG23	2.07	0.54
2:0Z:381:SER:OG	2:0Z:382:THR:N	2.40	0.54
2:1B:203:MET:O	2:1B:204:LEU:HD23	2.06	0.54
2:1B:223:THR:HG23	2:1B:225:THR:H	1.71	0.54
1:1G:271:THR:HG1	1:1G:272:PRO:HA	1.72	0.54
1:1S:215:LEU:HB3	1:1S:217:LEU:HG	1.89	0.54
2:1X:9:ILE:HD11	2:1X:153:LEU:HD13	1.90	0.54
1:2E:215:LEU:HB3	1:2E:217:LEU:HG	1.89	0.54
2:2F:230:LEU:HD12	2:2F:231:ILE:HD13	1.90	0.54
2:2F:352:LYS:NZ	2:2F:353:CYS:O	2.41	0.54
1:2G:125:GLU:O	38:8B:56:PRO:HD3	2.08	0.54
1:2G:229:ILE:HG22	1:2G:233:MET:HE2	1.90	0.54
2:2J:121:ARG:NE	2:2J:121:ARG:HA	2.22	0.54
2:2N:88:HIS:ND1	2:3D:283:HIS:HA	2.22	0.54
1:3G:99:ASN:ND2	2:3H:254:GLU:OE1	2.40	0.54
2:3N:124:LYS:HZ2	3:4D:36:PHE:HD1	1.54	0.54
1:3O:49:VAL:HG11	1:3O:241:ARG:HG2	1.89	0.54
1:3S:405:GLU:O	1:3S:409:THR:HG23	2.08	0.54
4:4C:61:CYS:HB3	4:4C:62:PRO:HD3	1.89	0.54
4:4E:79:ILE:HB	4:4E:163:ARG:O	2.07	0.54
4:4G:61:CYS:HB3	4:4G:62:PRO:HD3	1.90	0.54
5:4M:316:ARG:O	5:4M:319:GLU:HG3	2.07	0.54
14:5M:36:SER:OG	14:5M:595:SER:HB2	2.07	0.54
14:5M:234:ALA:HB2	14:5M:280:ARG:HB2	1.89	0.54
14:5N:36:SER:OG	14:5N:595:SER:HB2	2.07	0.54
15:5P:129:SER:N	15:5P:132:GLU:OE2	2.36	0.54
16:5Q:61:ILE:HG12	16:5Q:98:MET:HB3	1.88	0.54
22:6J:210:MET:O	22:6J:213:THR:OG1	2.24	0.54
24:6U:482:ILE:HG22	24:6U:497:PHE:HB3	1.90	0.54
24:6Z:135:PRO:HG2	24:6Z:137:GLN:HE22	1.73	0.54
1:G8:274:THR:HG21	1:G8:282:ARG:HD2	1.89	0.54
2:G9:287:SER:N	2:G9:290:GLU:OE2	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G9:305:CYS:SG	2:G9:306:ASP:N	2.81	0.54
1:I0:186:THR:HG22	1:I0:411:ALA:HB1	1.88	0.54
2:I3:191:THR:HA	2:I3:194:LEU:HB3	1.89	0.54
1:I4:156:ARG:NH1	1:I4:197:ASP:OD1	2.41	0.54
1:J6:186:THR:HG23	1:J6:187:LEU:HD12	1.87	0.54
2:K9:174:SER:HB3	2:K9:177:VAL:O	2.07	0.54
1:L0:2:ARG:HE	1:L0:240:LEU:HD22	1.73	0.54
1:L6:306:ARG:NH1	28:7X:453:SER:HA	2.23	0.54
2:L7:288:VAL:HG21	2:L7:327:ASP:HB2	1.90	0.54
2:M3:379:SER:OG	2:M3:380:ASN:N	2.38	0.54
1:N0:20:PHE:HA	1:N0:230:SER:HB2	1.90	0.54
1:N0:91:VAL:HG11	1:N0:116:VAL:HG12	1.90	0.54
1:N0:227:HIS:CE1	30:7L:361:GLY:HA2	2.42	0.54
1:N2:309:ARG:H	1:N2:372:THR:HG22	1.72	0.54
2:N5:192:HIS:HD2	2:N5:421:ALA:HA	1.72	0.54
2:N7:21:TRP:CZ2	2:N7:65:CYS:HB2	2.43	0.54
1:O2:320:ARG:HB3	37:7Y:237:ILE:HD11	1.89	0.54
2:O3:90:GLU:CG	2:O3:121:ARG:HH12	2.21	0.54
2:O3:221:ARG:NH2	37:7Y:71:ARG:O	2.38	0.54
1:Q0:65:LEU:HD12	1:Q0:90:PHE:CE1	2.43	0.54
1:Q8:119:VAL:O	1:Q8:123:GLU:HG2	2.07	0.54
1:R4:218:THR:O	2:R5:326:LYS:NZ	2.36	0.54
2:S1:217:LEU:HB3	2:S1:219:ILE:HD12	1.89	0.54
1:T2:11:GLN:HE22	2:T3:249:ASN:H	1.55	0.54
2:T3:269:LEU:HD13	2:T3:301:MET:HE1	1.90	0.54
2:T3:401:LYS:HD2	1:T4:344:TRP:CD2	2.43	0.54
1:T4:390:ARG:NH1	1:T4:390:ARG:CB	2.69	0.54
1:T6:48:ASN:O	1:T6:62:ARG:NH1	2.39	0.54
1:U6:329:GLN:HA	1:U6:332:ASN:HD21	1.73	0.54
2:V7:272:TYR:HD1	2:V7:376:CYS:HG	1.56	0.54
2:W1:88:HIS:NE2	2:W1:90:GLU:HB3	2.22	0.54
2:W1:287:SER:OG	2:W1:288:VAL:N	2.41	0.54
2:W1:325:PRO:O	2:W1:329:ASN:ND2	2.40	0.54
2:W5:89:PRO:HD3	2:Y1:283:HIS:CG	2.42	0.54
1:W6:117:LEU:HD11	1:W6:154:LYS:HB3	1.90	0.54
1:X0:22:GLU:HG2	1:X0:81:TYR:HB2	1.89	0.54
1:X0:42:LEU:CD2	8:4X:97:PHE:HZ	2.21	0.54
1:X0:58:ARG:HD3	8:4W:469:GLN:OE1	2.07	0.54
2:Y3:264:ARG:NH1	2:Y3:431:ASP:OD1	2.36	0.54
2:Z5:221:ARG:HB3	1:Z6:322:SER:HB2	1.89	0.54
1:Z8:101:TRP:HB2	1:Z8:184:ASN:OD1	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0E:139:LEU:HD12	1:0E:170:VAL:HG22	1.88	0.54
1:0I:391:ARG:HB3	2:0J:346:TRP:CZ3	2.42	0.54
1:0O:139:LEU:HD12	1:0O:170:VAL:HG12	1.90	0.54
1:0Q:116:VAL:HA	1:0Q:119:VAL:HG12	1.89	0.54
1:0U:350:LYS:NZ	1:0U:351:SER:O	2.35	0.54
2:0V:353:CYS:SG	2:0V:354:GLY:N	2.80	0.54
1:0W:6:HIS:CE1	1:0W:8:GLN:HG2	2.42	0.54
2:1B:74:VAL:O	2:1B:78:VAL:HG23	2.08	0.54
1:1E:232:VAL:O	1:1E:236:ILE:HG12	2.08	0.54
2:1R:121:ARG:HD2	2:1R:121:ARG:O	2.07	0.54
1:2C:3:GLU:HB2	1:2C:130:LEU:HA	1.90	0.54
1:2E:140:GLY:O	1:2E:184:ASN:ND2	2.37	0.54
2:2L:22:GLU:HG2	2:2L:83:TYR:OH	2.07	0.54
1:2M:301:CYS:SG	1:2M:302:ALA:N	2.81	0.54
2:2X:192:HIS:HD2	2:2X:421:ALA:HA	1.73	0.54
2:2X:267:PHE:HB2	2:2X:384:ILE:HD12	1.89	0.54
2:3L:287:SER:OG	2:3L:290:GLU:OE1	2.17	0.54
1:3M:175:VAL:HG22	2:3N:329:ASN:ND2	2.23	0.54
2:3N:210:TYR:OH	1:3O:323:THR:OG1	2.24	0.54
2:3P:406:HIS:HA	2:3P:409:VAL:HG22	1.90	0.54
1:3S:113:ILE:HG13	1:3S:117:LEU:HD23	1.90	0.54
2:3T:221:ARG:HG2	2:3T:221:ARG:O	2.08	0.54
4:4C:79:ILE:HB	4:4C:163:ARG:O	2.07	0.54
3:4H:210:ASP:OD2	3:4H:213:VAL:HB	2.06	0.54
3:4J:282:GLU:HB3	3:4J:283:GLN:NE2	2.22	0.54
6:4O:43:ASN:O	6:4O:47:ASN:HB2	2.07	0.54
8:4W:330:ARG:O	8:4W:334:GLU:HG2	2.07	0.54
10:5A:375:GLU:HA	10:5A:378:ASN:HD21	1.72	0.54
14:5L:36:SER:OG	14:5L:595:SER:HB2	2.07	0.54
14:5N:234:ALA:HB2	14:5N:280:ARG:HB2	1.89	0.54
17:5S:188:LYS:O	17:5S:191:SER:OG	2.19	0.54
24:6U:130:MET:HB2	24:6U:153:VAL:HG13	1.90	0.54
24:6W:277:CYS:HA	24:6W:368:LEU:HA	1.89	0.54
24:6W:488:ARG:CB	24:6W:488:ARG:CZ	2.86	0.54
24:6X:316:ASP:OD2	24:6X:317:PRO:HD3	2.05	0.54
26:7F:144:HIS:NE2	26:7F:146:ASN:HB3	2.22	0.54
29:7J:316:VAL:HG21	29:7J:326:ILE:HG21	1.90	0.54
31:7M:37:ILE:HD12	31:7M:37:ILE:H	1.73	0.54
34:7R:99:ARG:HB2	35:7T:47:ASN:HD21	1.73	0.54
1:A5:280:GLN:NE2	1:T8:58:ARG:HG2	2.21	0.54
1:G4:72:THR:O	1:G4:76:VAL:HG23	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G7:221:ARG:NH2	22:6O:174:GLU:O	2.40	0.54
1:G8:128:ASP:OD1	1:G8:129:CYS:N	2.39	0.54
1:H2:386:THR:O	1:H2:390:ARG:HG3	2.07	0.54
1:H6:244:GLY:H	1:H6:247:ASN:HD21	1.55	0.54
1:I4:257:LEU:HD21	1:I4:314:SER:HB3	1.90	0.54
2:I5:301:MET:HE1	2:I5:307:PRO:HD3	1.88	0.54
1:J0:52:ASN:OD1	1:J0:62:ARG:NH2	2.41	0.54
2:J3:111:GLY:O	2:J3:115:VAL:HG22	2.08	0.54
1:J4:2:ARG:HB3	1:J4:131:GLN:HB2	1.89	0.54
2:J7:91:GLN:O	2:J7:93:ILE:HG12	2.07	0.54
2:K5:264:ARG:NH2	2:K5:431:ASP:OD2	2.41	0.54
2:M1:90:GLU:HG3	2:M1:121:ARG:NH1	2.21	0.54
1:M2:86:ARG:HB3	2:N9:283:HIS:HE1	1.73	0.54
2:M7:5:ILE:HG22	2:M7:64:ARG:HB3	1.88	0.54
2:N5:121:ARG:HD2	2:N5:121:ARG:C	2.28	0.54
1:N6:99:ASN:ND2	2:N7:254:GLU:OE1	2.41	0.54
2:N7:88:HIS:HE2	2:N7:90:GLU:HB2	1.73	0.54
1:O8:309:ARG:H	1:O8:372:THR:HG22	1.72	0.54
2:O9:183:GLU:HG3	2:O9:184:PRO:HD3	1.89	0.54
2:O9:384:ILE:HA	2:O9:387:ILE:HD12	1.89	0.54
2:P3:279:GLU:H	2:P3:279:GLU:CD	2.05	0.54
2:P7:329:ASN:O	2:P7:332:VAL:HG12	2.07	0.54
1:Q8:244:GLY:HA3	1:Q8:354:CYS:HA	1.90	0.54
1:R2:91:VAL:HG21	1:R2:116:VAL:HG22	1.88	0.54
1:R8:229:ILE:HG22	1:R8:233:MET:HE2	1.88	0.54
1:S0:418:LEU:HG	1:S0:422:TYR:CE2	2.42	0.54
2:S1:287:SER:OG	2:S1:290:GLU:OE1	2.26	0.54
1:S6:3:GLU:HB2	1:S6:130:LEU:HA	1.90	0.54
1:S6:259:PRO:HG2	1:S6:263:LEU:HD23	1.89	0.54
1:S8:173:PRO:HD3	1:S8:380:ARG:NH1	2.23	0.54
1:U4:285:THR:HG23	1:U4:288:GLU:H	1.72	0.54
1:U6:117:LEU:HD11	1:U6:154:LYS:HB3	1.90	0.54
1:U8:257:LEU:HD21	1:U8:314:SER:HB2	1.90	0.54
1:V2:41:ASP:HA	1:V2:44:LEU:HD23	1.89	0.54
2:V3:77:GLU:OE2	1:V4:243:PRO:HB3	2.07	0.54
1:V6:205:GLU:HG2	1:V6:206:ALA:H	1.73	0.54
1:W2:77:ARG:O	1:W2:83:GLN:NE2	2.41	0.54
2:W7:276:ILE:HG12	2:W7:281:ALA:HB2	1.89	0.54
1:X2:153:SER:HA	1:X2:195:ASN:OD1	2.07	0.54
2:X7:3:GLU:O	2:X7:133:GLN:N	2.37	0.54
2:X7:236:SER:O	2:X7:243:ARG:NH2	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Y1:62:VAL:HB	2:Y1:88:HIS:CE1	2.42	0.54
2:Y1:100:ALA:O	1:Y2:255:VAL:HG21	2.07	0.54
1:Y2:58:ARG:HH11	1:Y2:84:ILE:HA	1.71	0.54
2:Y5:129:CYS:SG	2:Y5:130:THR:N	2.81	0.54
1:Y8:51:PHE:HB3	1:Y8:59:TYR:HB3	1.88	0.54
2:Z5:8:HIS:CD2	2:Z5:138:PHE:HD2	2.25	0.54
1:0E:31:ASP:OD2	1:0E:33:THR:OG1	2.26	0.54
2:0F:69:ASP:OD1	2:0F:70:LEU:N	2.41	0.54
2:0R:198:THR:HG21	2:0R:201:ALA:HB2	1.90	0.54
1:0U:91:VAL:HG11	1:0U:116:VAL:HG12	1.90	0.54
1:1A:268:VAL:O	1:1A:300:MET:N	2.34	0.54
1:1M:163:MET:HB3	1:1M:250:LEU:HD22	1.88	0.54
1:1Q:52:ASN:OD1	1:1Q:62:ARG:NH2	2.40	0.54
1:1Q:186:THR:HG22	1:1Q:411:ALA:HB1	1.90	0.54
2:1T:289:ALA:O	2:1T:293:ASN:ND2	2.41	0.54
1:1U:31:ASP:OD1	1:1U:35:THR:N	2.32	0.54
1:1W:34:GLY:HA3	1:1W:58:ARG:HD2	1.90	0.54
2:2D:145:THR:OG1	41:2E:501:GTP:O1B	2.25	0.54
2:2H:88:HIS:ND1	2:2H:121:ARG:NH2	2.56	0.54
2:2L:9:ILE:HG13	2:2L:139:ASN:HB3	1.90	0.54
1:2U:211:CYS:HA	1:2U:215:LEU:HB2	1.89	0.54
2:2X:22:GLU:OE1	38:8C:203:PHE:CD1	2.60	0.54
1:3A:309:ARG:H	1:3A:372:THR:HG22	1.73	0.54
1:3I:51:PHE:HB3	1:3I:59:TYR:HB3	1.90	0.54
1:3K:350:LYS:NZ	1:3K:352:SER:OG	2.40	0.54
1:3M:52:ASN:HD22	1:3M:52:ASN:N	2.02	0.54
1:3Q:309:ARG:H	1:3Q:372:THR:HG22	1.71	0.54
2:3T:137:VAL:HG13	2:3T:168:GLY:HA2	1.90	0.54
2:3T:241:SER:HA	2:3T:356:ASN:ND2	2.19	0.54
4:3W:79:ILE:HB	4:3W:163:ARG:O	2.07	0.54
4:4I:61:CYS:HB3	4:4I:62:PRO:HD3	1.89	0.54
6:4O:247:GLN:O	6:4O:251:GLU:HG2	2.07	0.54
8:4W:191:GLU:OE2	8:4W:192:ARG:HD2	2.08	0.54
11:5E:115:LEU:HG	11:5E:115:LEU:O	2.08	0.54
12:5F:289:TYR:CE1	12:5F:322:LEU:HB2	2.42	0.54
13:5K:18:ARG:NH1	24:6Z:35:TYR:OH	2.41	0.54
14:5L:234:ALA:HB2	14:5L:280:ARG:HB2	1.89	0.54
14:5L:415:LYS:NZ	23:6Q:21:THR:O	2.41	0.54
14:5N:222:ALA:HB2	14:5N:229:LYS:HG2	1.88	0.54
16:5Q:127:ASP:O	16:5Q:131:THR:HG23	2.08	0.54
22:6P:110:ILE:O	22:6P:113:ARG:NH1	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:6T:97:ARG:NH2	24:6T:99:TYR:OH	2.41	0.54
24:6T:488:ARG:H	24:6T:488:ARG:HH11	1.55	0.54
24:6V:282:ARG:NH1	24:6V:289:ARG:HD3	2.23	0.54
26:7F:136:PHE:HB3	26:7F:137:PRO:HD2	1.88	0.54
29:7I:14:LEU:HD12	29:7I:14:LEU:O	2.06	0.54
29:7I:254:MET:CE	30:7K:341:ARG:HD3	2.36	0.54
38:8A:91:GLN:HG2	38:8A:102:PHE:HD1	1.72	0.54
2:F5:145:THR:OG1	41:F5:501:GTP:O1B	2.25	0.54
2:G1:417:GLU:HA	2:G1:420:GLU:HG2	1.90	0.54
2:G3:222:PRO:HD2	1:G4:324:LYS:HE3	1.90	0.54
2:G3:229:ARG:HD3	2:G3:363:VAL:HG11	1.90	0.54
2:G5:98:ASP:OD1	2:G5:99:ALA:N	2.41	0.54
2:G5:384:ILE:HD12	2:G5:387:ILE:HB	1.90	0.54
2:H3:129:CYS:SG	2:H3:130:THR:N	2.81	0.54
2:H5:213:CYS:HA	2:H5:217:LEU:HB2	1.90	0.54
2:I5:72:PRO:HA	2:I5:75:VAL:HG22	1.89	0.54
1:J0:371:SER:OG	1:J0:372:THR:N	2.41	0.54
1:K0:257:LEU:HD11	1:K0:314:SER:HB2	1.89	0.54
1:K4:203:ASP:OD2	1:K4:302:ALA:N	2.39	0.54
1:L0:67:ASP:OD2	1:L0:72:THR:OG1	2.25	0.54
2:L3:84:ARG:HH22	29:7J:345:PRO:CD	2.20	0.54
2:L5:387:ILE:HG12	2:L5:390:ARG:HH22	1.73	0.54
1:M0:387:ALA:HA	1:M0:390:ARG:HE	1.73	0.54
1:M2:183:TYR:HE2	1:M2:394:PHE:HB2	1.73	0.54
1:M4:382:SER:OG	1:M4:415:MET:HG2	2.07	0.54
1:N0:345:ILE:O	1:N0:348:ASN:ND2	2.40	0.54
2:O1:90:GLU:HB2	2:O1:121:ARG:NH1	2.22	0.54
1:O2:285:THR:OG1	1:O2:287:PRO:HD2	2.07	0.54
2:O7:246:GLY:HA3	2:O7:356:ASN:HA	1.90	0.54
2:Q5:206:ASN:OD1	41:Q6:501:GTP:N2	2.40	0.54
2:R1:220:GLU:HG2	2:R1:221:ARG:HG3	1.88	0.54
2:R3:155:GLU:HG2	2:R3:197:HIS:CE1	2.42	0.54
1:R4:90:PHE:HD2	19:6E:254:PHE:CZ	2.26	0.54
2:T1:384:ILE:HA	2:T1:387:ILE:HD12	1.90	0.54
1:T2:222:PHE:CZ	2:T3:325:PRO:HB3	2.43	0.54
1:T2:271:THR:HG21	1:T2:293:MET:HG3	1.90	0.54
2:T5:129:CYS:SG	2:T5:130:THR:N	2.80	0.54
2:U3:234:VAL:O	2:U3:237:SER:OG	2.20	0.54
2:U5:287:SER:N	2:U5:290:GLU:OE2	2.39	0.54
2:V1:129:CYS:SG	2:V1:130:THR:N	2.80	0.54
1:W0:173:PRO:HD3	1:W0:380:ARG:HD3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W6:371:SER:OG	1:W6:372:THR:N	2.40	0.54
2:W7:195:LEU:HD21	2:W7:264:ARG:HH11	1.71	0.54
1:W8:392:LYS:HD2	1:W8:395:LEU:HD22	1.90	0.54
1:X0:225:LEU:HA	1:X0:228:LEU:HD12	1.89	0.54
1:X6:3:GLU:HB2	1:X6:130:LEU:HA	1.89	0.54
2:Y1:239:THR:HG23	2:Y1:243:ARG:HE	1.73	0.54
1:Y2:285:THR:OG1	1:Y2:287:PRO:HD2	2.07	0.54
1:Y4:21:TRP:CZ3	1:Y4:61:PRO:HB3	2.43	0.54
1:Y4:69:GLU:C	1:Y4:92:PHE:HZ	2.12	0.54
1:Y8:11:GLN:NE2	39:Y8:501:GDP:O1A	2.40	0.54
2:Z3:406:HIS:HA	2:Z3:409:VAL:HG12	1.89	0.54
1:Z6:405:GLU:HA	1:Z6:408:PHE:HD2	1.72	0.54
1:0G:139:LEU:HG	1:0G:168:SER:HB2	1.90	0.54
1:0I:128:ASP:OD1	1:0I:129:CYS:N	2.39	0.54
1:0O:358:PRO:HG2	1:0O:361:LEU:HB2	1.90	0.54
2:0P:244:PHE:HB2	2:0P:356:ASN:HD21	1.72	0.54
2:0R:185:TYR:O	2:0R:189:LEU:HG	2.08	0.54
1:0U:109:GLY:O	1:0U:113:ILE:HG12	2.07	0.54
1:1G:248:ALA:HA	1:1G:252:LYS:HD2	1.89	0.54
1:1O:7:ILE:HD13	1:1O:151:LEU:HD21	1.90	0.54
2:1R:89:PRO:HD3	2:2H:283:HIS:ND1	2.23	0.54
1:1U:172:SER:HB3	1:1U:175:VAL:HG22	1.88	0.54
2:1Z:223:THR:HA	1:2A:323:THR:HG22	1.88	0.54
1:2A:246:LEU:O	1:2A:352:SER:OG	2.22	0.54
2:2H:65:CYS:SG	2:2H:66:ILE:N	2.81	0.54
2:2H:279:GLU:OE1	10:5B:167:ILE:HD13	2.08	0.54
2:2T:413:MET:HB3	2:2T:417:GLU:OE2	2.08	0.54
1:2U:263:LEU:HD22	1:2U:422:TYR:HE1	1.72	0.54
2:2V:47:ASP:OD1	2:2V:48:ALA:N	2.41	0.54
2:2X:39:ASP:O	2:2X:42:ILE:HG22	2.08	0.54
2:2X:200:VAL:HG13	2:2X:268:MET:HE2	1.89	0.54
1:2Y:193:VAL:HG12	1:2Y:265:PHE:HZ	1.73	0.54
2:2Z:122:ILE:HD11	2:2Z:135:PHE:CE1	2.43	0.54
1:3A:69:GLU:C	1:3A:92:PHE:HZ	2.11	0.54
1:3A:207:LEU:HB3	1:3A:225:LEU:HD22	1.90	0.54
1:3C:320:ARG:HH12	38:8D:198:THR:CA	2.21	0.54
2:3F:276:ILE:HG23	2:3F:280:LYS:HB2	1.90	0.54
1:3M:51:PHE:HB3	1:3M:59:TYR:HB3	1.90	0.54
1:3M:52:ASN:HD21	1:3M:62:ARG:HB2	1.70	0.54
2:3N:22:GLU:HG3	2:3N:83:TYR:OH	2.07	0.54
1:3O:70:PRO:N	1:3O:92:PHE:HZ	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3S:377:MET:HA	1:3S:380:ARG:CD	2.37	0.54
4:3W:61:CYS:HB3	4:3W:62:PRO:HD3	1.90	0.54
4:4I:79:ILE:HB	4:4I:163:ARG:O	2.07	0.54
6:4O:307:ASP:HA	6:4O:310:TYR:CE2	2.43	0.54
7:4T:184:LEU:HD23	31:7M:78:HIS:CE1	2.41	0.54
15:5O:265:VAL:HG11	15:5O:309:LEU:HD12	1.90	0.54
15:5P:40:ILE:HD13	37:7Y:56:MET:HB2	1.90	0.54
16:5Q:79:ARG:HH11	16:5Q:81:HIS:HE1	1.56	0.54
21:6H:129:VAL:O	21:6H:133:VAL:HG23	2.07	0.54
22:6J:333:MET:HG3	22:6J:334:THR:HG23	1.90	0.54
22:6M:305:VAL:HG11	22:6M:343:TYR:HB3	1.90	0.54
24:6X:451:LYS:HD2	24:6X:468:ARG:NH2	2.20	0.54
24:6Y:93:ARG:HH11	26:7F:48:LEU:HG	1.73	0.54
27:7G:135:GLU:HA	27:7G:139:ILE:HD13	1.89	0.54
31:7M:78:HIS:N	31:7M:79:PRO:HD2	2.23	0.54
36:7W:19:LEU:N	36:7W:102:MET:CE	2.71	0.54
36:7W:98:VAL:O	36:7W:102:MET:CB	2.52	0.54
1:A1:281:TYR:OH	1:T4:83:GLN:O	2.17	0.54
1:A3:359:LYS:HB2	26:7F:131:THR:HG21	1.90	0.54
2:E9:88:HIS:NE2	2:G5:284:GLU:HG2	2.23	0.54
2:G9:279:GLU:H	2:G9:279:GLU:CD	2.05	0.54
1:H6:107:THR:OG1	1:H6:401:GLU:OE1	2.25	0.54
1:H8:218:THR:HB	24:6W:489:ASN:H	1.73	0.54
1:I2:193:VAL:HG23	1:I2:194:GLU:HG3	1.90	0.54
2:I3:189:LEU:HD11	2:I3:418:PHE:HE1	1.73	0.54
1:I4:263:LEU:HD13	1:I4:422:TYR:HE1	1.71	0.54
1:I8:118:ASP:OD1	28:7H:452:ASN:HB2	2.07	0.54
1:I8:246:LEU:HD22	1:I8:352:SER:HA	1.90	0.54
1:J2:122:LYS:NZ	1:J2:123:GLU:OE1	2.38	0.54
1:J4:371:SER:OG	1:J4:372:THR:N	2.41	0.54
1:K4:387:ALA:HA	1:K4:390:ARG:HE	1.73	0.54
1:K6:135:VAL:HG21	1:K6:152:ILE:HD11	1.89	0.54
2:L5:204:LEU:HD13	2:L5:231:ILE:HD12	1.89	0.54
1:L6:183:TYR:HB3	1:L6:398:TYR:HE2	1.73	0.54
1:N2:244:GLY:H	1:N2:247:ASN:HD21	1.55	0.54
2:N3:208:ALA:HA	2:N3:304:LYS:HE3	1.88	0.54
1:P4:49:VAL:HG11	1:P4:241:ARG:HG2	1.90	0.54
2:P9:170:THR:HG21	2:P9:194:LEU:HD11	1.89	0.54
1:Q2:52:ASN:OD1	1:Q2:62:ARG:NH2	2.37	0.54
2:Q5:9:ILE:HD13	2:Q5:150:GLY:HA2	1.90	0.54
1:Q6:396:HIS:HA	1:Q6:399:THR:HG22	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q8:406:MET:HA	1:Q8:409:THR:HG22	1.90	0.54
2:Q9:394:LYS:HB2	1:R0:346:PRO:HG3	1.90	0.54
1:R0:124:ALA:HB1	1:R0:130:LEU:HD11	1.89	0.54
2:R5:55:GLU:HG3	2:R5:61:HIS:CE1	2.43	0.54
2:R5:66:ILE:O	2:R5:66:ILE:HG13	2.08	0.54
2:R5:267:PHE:HB2	2:R5:384:ILE:HD12	1.90	0.54
1:S2:359:LYS:HD3	7:4R:361:GLN:NE2	2.23	0.54
1:S4:163:MET:HB3	1:S4:250:LEU:HD22	1.89	0.54
1:S8:125:GLU:OE2	1:S8:159:TYR:OH	2.24	0.54
1:T0:245:GLN:HG2	12:5F:210:THR:HG21	1.89	0.54
1:T4:279:GLN:OE1	7:4U:115:ARG:HB3	2.07	0.54
1:T6:56:GLY:N	26:7F:104:GLN:NE2	2.55	0.54
2:U3:90:GLU:HG3	2:U3:121:ARG:NH1	2.23	0.54
2:W1:234:VAL:HG13	2:W1:376:CYS:SG	2.48	0.54
1:W4:382:SER:OG	1:W4:415:MET:HG2	2.08	0.54
1:X0:40:SER:OG	8:4X:97:PHE:CD2	2.51	0.54
2:X7:72:PRO:HG2	1:X8:46:ARG:HH22	1.73	0.54
2:X7:254:GLU:HB3	2:X7:352:LYS:HE2	1.89	0.54
1:X8:177:ASP:O	2:X9:352:LYS:HA	2.07	0.54
1:Y0:58:ARG:HH11	1:Y0:84:ILE:HA	1.72	0.54
2:Z7:392:ASP:OD2	2:Z7:422:ARG:NH1	2.41	0.54
2:Z9:129:CYS:SG	2:Z9:130:THR:N	2.80	0.54
1:0E:16:ILE:HD11	1:0E:136:CYS:HB3	1.90	0.54
1:0K:83:GLN:O	1:1A:281:TYR:OH	2.17	0.54
2:1B:254:GLU:HA	2:1B:257:THR:HG22	1.90	0.54
1:1C:4:ILE:HB	1:1C:50:TYR:CE1	2.35	0.54
1:1E:26:ASP:O	1:1E:359:LYS:NZ	2.26	0.54
1:1K:144:GLY:N	39:1K:501:GDP:O1B	2.41	0.54
1:1Q:388:MET:CE	2:1R:348:PRO:HD2	2.38	0.54
2:1V:336:LYS:O	2:1V:339:ARG:NH2	2.41	0.54
2:1X:183:GLU:HG3	2:1X:184:PRO:HD3	1.89	0.54
2:1Z:269:LEU:HD23	2:1Z:384:ILE:HD11	1.90	0.54
1:2A:364:SER:OG	1:2A:365:ALA:N	2.41	0.54
1:2C:208:TYR:CE1	1:2C:225:LEU:HD11	2.42	0.54
1:2I:118:ASP:CA	38:8C:99:THR:HG22	2.38	0.54
2:2J:220:GLU:HG2	2:2J:221:ARG:HG3	1.89	0.54
2:2P:88:HIS:CE1	2:3F:283:HIS:HA	2.42	0.54
2:2V:22:GLU:HG3	2:2V:83:TYR:OH	2.08	0.54
1:2Y:219:THR:HB	2:2Z:324:VAL:HG11	1.90	0.54
1:3A:309:ARG:NH1	1:3A:339:SER:O	2.41	0.54
2:3B:381:SER:OG	2:3B:382:THR:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3D:194:LEU:O	2:3D:198:THR:HG22	2.07	0.54
2:3D:264:ARG:NH2	2:3D:431:ASP:OD2	2.41	0.54
1:3I:7:ILE:HB	1:3I:135:VAL:HG22	1.89	0.54
1:3O:39:ASP:OD1	1:3O:40:SER:N	2.40	0.54
1:3S:67:ASP:OD2	1:3S:72:THR:OG1	2.20	0.54
1:3S:406:MET:O	1:3S:410:GLU:HG2	2.07	0.54
2:3T:237:SER:HA	2:3T:320:ARG:HD2	1.90	0.54
3:3X:207:ASN:O	3:3X:209:ARG:NH2	2.41	0.54
4:3Y:79:ILE:HB	4:3Y:163:ARG:O	2.07	0.54
3:4B:207:ASN:O	3:4B:209:ARG:NH2	2.41	0.54
4:4E:61:CYS:HB3	4:4E:62:PRO:HD3	1.90	0.54
3:4F:207:ASN:O	3:4F:209:ARG:NH2	2.41	0.54
4:4G:79:ILE:HB	4:4G:163:ARG:O	2.07	0.54
8:4V:436:GLU:HA	8:4V:439:LYS:HG2	1.89	0.54
14:5L:177:ASP:OD1	14:5L:177:ASP:N	2.41	0.54
15:5O:122:LYS:HD2	15:5O:222:PHE:CE2	2.43	0.54
15:5O:237:THR:HG22	15:5O:312:ALA:HB2	1.89	0.54
1:3:281:TYR:OH	1:S6:83:GLN:O	2.14	0.54
2:D1:206:ASN:OD1	41:D1:501:GTP:N2	2.29	0.54
2:G1:317:LEU:HB3	2:G1:319:TYR:HE1	1.72	0.54
2:G7:227:LEU:O	2:G7:230:LEU:HD23	2.08	0.54
2:G7:381:SER:OG	2:G7:382:THR:N	2.40	0.54
2:H1:90:GLU:O	2:H1:121:ARG:NH1	2.41	0.54
2:H3:254:GLU:HA	2:H3:257:THR:HG22	1.89	0.54
2:H7:33:ASP:O	2:H7:60:LYS:NZ	2.41	0.54
2:H9:49:PHE:HB2	2:H9:53:PHE:HD2	1.73	0.54
1:I0:211:CYS:HA	1:I0:215:LEU:HB2	1.90	0.54
2:I1:56:THR:HG23	2:I1:60:LYS:HB3	1.89	0.54
2:I1:333:ALA:O	2:I1:337:THR:HG23	2.08	0.54
1:I2:180:VAL:HG23	1:I2:184:ASN:ND2	2.20	0.54
2:J3:417:GLU:HA	2:J3:420:GLU:HG2	1.90	0.54
1:J4:114:ASP:N	1:J4:114:ASP:OD1	2.39	0.54
1:J6:86:ARG:HG2	1:J6:88:ASP:H	1.73	0.54
1:J6:309:ARG:NH1	1:J6:339:SER:O	2.41	0.54
1:K6:248:ALA:HA	1:K6:252:LYS:HD2	1.90	0.54
1:L2:340:TYR:HE1	34:7S:242:ASN:HD21	1.55	0.54
1:L6:203:ASP:HB2	1:L6:205:GLU:OE1	2.08	0.54
2:L7:12:ALA:O	2:L7:16:VAL:HG23	2.08	0.54
2:L9:313:MET:HB2	2:L9:380:ASN:HB3	1.89	0.54
1:M2:5:VAL:HG23	1:M2:62:ARG:HG2	1.90	0.54
2:N1:236:SER:O	2:N1:243:ARG:NH2	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O0:297:LYS:NZ	27:7G:5:ALA:O	2.33	0.54
2:O7:155:GLU:HG2	2:O7:197:HIS:CE1	2.43	0.54
1:P4:175:VAL:CG1	2:P5:329:ASN:HD21	2.19	0.54
1:P8:190:HIS:CD2	1:P8:411:ALA:HA	2.43	0.54
1:Q0:113:ILE:HD11	1:Q0:151:LEU:HD13	1.90	0.54
1:S2:248:ALA:HA	1:S2:252:LYS:HD2	1.90	0.54
1:S4:74:ASP:OD1	24:6U:33:LEU:HD12	2.07	0.54
1:S4:249:ASP:HB2	1:S4:252:LYS:HE2	1.90	0.54
1:S8:320:ARG:NE	12:5F:241:GLU:OE1	2.41	0.54
2:T3:88:HIS:CE1	2:T3:90:GLU:HB2	2.42	0.54
1:T4:128:ASP:OD1	1:T4:129:CYS:N	2.37	0.54
2:U7:333:ALA:O	2:U7:337:THR:HG23	2.08	0.54
2:V3:98:ASP:OD1	2:V3:99:ALA:N	2.41	0.54
2:V3:221:ARG:HG2	1:V4:325:GLU:OE2	2.07	0.54
2:W7:60:LYS:HE2	2:Y3:283:HIS:CE1	2.44	0.54
2:X7:174:SER:HB3	2:X7:177:VAL:O	2.07	0.54
2:X7:267:PHE:HB3	2:X7:384:ILE:HG21	1.90	0.54
1:Y0:263:LEU:HD22	1:Y0:422:TYR:CE1	2.42	0.54
1:Y8:273:LEU:H	1:Y8:292:GLN:NE2	2.04	0.54
1:Z0:211:CYS:SG	1:Z0:220:PRO:HB3	2.47	0.54
2:Z1:116:ASP:N	2:Z1:116:ASP:OD1	2.40	0.54
2:Z5:392:ASP:OD2	2:Z5:422:ARG:NH1	2.41	0.54
1:Z8:8:GLN:HG3	1:Z8:65:LEU:HA	1.89	0.54
1:0A:273:LEU:H	1:0A:292:GLN:HE22	1.56	0.54
2:0B:83:TYR:HB3	2:0B:86:LEU:HB3	1.90	0.54
1:0E:113:ILE:HA	1:0E:116:VAL:HG22	1.90	0.54
1:0E:309:ARG:NH1	1:0E:339:SER:O	2.41	0.54
2:0J:429:GLU:O	2:0J:433:GLU:HG2	2.08	0.54
1:0K:121:ARG:NH2	1:0K:158:GLU:OE2	2.41	0.54
2:0L:12:ALA:HB2	41:0M:501:GTP:C8	2.43	0.54
2:0L:398:MET:HG2	1:0M:345:ILE:HG12	1.90	0.54
2:0N:250:VAL:HG13	2:0N:254:GLU:HG3	1.90	0.54
2:0N:305:CYS:HB3	2:0N:387:ILE:HD11	1.89	0.54
2:0P:156:ARG:HA	2:0P:159:VAL:HG22	1.90	0.54
2:0P:194:LEU:O	2:0P:198:THR:HG22	2.07	0.54
1:0Q:287:PRO:HA	1:0Q:290:THR:HG22	1.89	0.54
2:0R:407:TRP:CD2	1:0S:255:VAL:HG12	2.43	0.54
1:0U:97:ALA:HA	1:0U:103:LYS:HE3	1.90	0.54
2:0V:83:TYR:HB3	2:0V:86:LEU:HB3	1.88	0.54
2:0V:100:ALA:CA	1:0W:252:LYS:HG2	2.36	0.54
1:1E:33:THR:O	1:1E:58:ARG:NH2	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:183:TYR:HA	1:1G:385:PHE:HE1	1.72	0.54
2:1H:81:GLY:O	2:1H:84:ARG:NH1	2.35	0.54
1:1M:379:LYS:HG3	1:1M:419:VAL:HG21	1.90	0.54
1:1O:309:ARG:H	1:1O:372:THR:HG22	1.72	0.54
1:1Q:56:GLY:O	10:5A:460:ARG:NH2	2.41	0.54
2:1Z:88:HIS:CD2	2:2P:283:HIS:HB3	2.37	0.54
2:1Z:141:VAL:HG22	2:1Z:187:SER:HA	1.89	0.54
1:2E:135:VAL:HG21	1:2E:152:ILE:HD11	1.90	0.54
2:2F:267:PHE:HB2	2:2F:384:ILE:HD12	1.90	0.54
2:2J:266:HIS:ND1	2:2J:266:HIS:O	2.41	0.54
2:2L:121:ARG:O	2:2L:121:ARG:HD3	2.07	0.54
2:2R:98:ASP:OD1	2:2R:99:ALA:N	2.41	0.54
1:2U:391:ARG:HG3	2:2V:346:TRP:CD2	2.43	0.54
2:2X:90:GLU:HG3	2:2X:121:ARG:NH1	2.23	0.54
1:3A:391:ARG:NH1	2:3B:438:GLU:O	2.41	0.54
2:3N:109:THR:OG1	2:3N:411:GLU:OE2	2.20	0.54
2:3T:235:ILE:O	2:3T:238:LEU:HG	2.08	0.54
3:3V:119:THR:HG23	3:3V:122:ARG:H	1.73	0.54
3:3X:119:THR:HG23	3:3X:122:ARG:H	1.73	0.54
3:3Z:119:THR:HG23	3:3Z:122:ARG:H	1.73	0.54
4:4A:61:CYS:HB3	4:4A:62:PRO:HD3	1.90	0.54
3:4B:119:THR:HG23	3:4B:122:ARG:H	1.73	0.54
3:4D:119:THR:HG23	3:4D:122:ARG:H	1.73	0.54
3:4F:119:THR:HG23	3:4F:122:ARG:H	1.73	0.54
6:4O:103:ARG:HH12	6:4O:107:ALA:HB2	1.71	0.54
7:4T:213:GLU:HG3	31:7M:43:VAL:HG13	1.90	0.54
10:5C:499:ILE:HD12	10:5C:499:ILE:C	2.28	0.54
14:5M:177:ASP:OD1	14:5M:177:ASP:N	2.41	0.54
14:5N:177:ASP:OD1	14:5N:177:ASP:N	2.41	0.54
15:5O:289:LEU:H	15:5O:290:PRO:CD	2.17	0.54
15:5P:257:ASP:OD1	15:5P:258:LEU:N	2.41	0.54
18:5X:178:GLN:HA	18:5X:181:GLN:HG2	1.90	0.54
24:6Y:322:LEU:HD23	24:6Y:323:LYS:O	2.08	0.54
31:7M:65:THR:HG21	31:7M:73:ARG:HD3	1.90	0.54
36:7V:76:GLN:OE1	36:7V:76:GLN:HA	2.08	0.54
1:9:41:ASP:N	26:7E:25:TYR:HE2	2.06	0.53
2:F1:18:ASN:ND2	22:6O:116:TYR:HE1	2.06	0.53
1:F6:216:LYS:HB2	24:6T:422:ASN:HD21	1.72	0.53
1:G4:177:ASP:N	1:G4:181:GLU:OE2	2.40	0.53
2:G7:88:HIS:CE1	2:G7:90:GLU:HB2	2.43	0.53
2:G7:287:SER:N	2:G7:290:GLU:OE2	2.40	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G8:253:LEU:HD11	1:G8:316:LEU:HD11	1.91	0.53
2:H3:88:HIS:HB3	2:H3:91:GLN:CG	2.37	0.53
1:H8:244:GLY:H	1:H8:247:ASN:HD21	1.54	0.53
2:I1:26:LEU:HD21	2:I1:363:VAL:HG12	1.90	0.53
1:I4:153:SER:O	1:I4:157:GLU:HG2	2.08	0.53
1:I4:248:ALA:HA	1:I4:252:LYS:HD2	1.90	0.53
2:I5:199:ASP:OD1	2:I5:256:GLN:HG2	2.09	0.53
2:I7:88:HIS:CD2	2:K3:283:HIS:HA	2.44	0.53
1:J6:5:VAL:HG22	1:J6:133:PHE:HD1	1.72	0.53
1:J8:77:ARG:HH21	1:J8:90:PHE:HD2	1.56	0.53
1:K0:2:ARG:HH21	1:K0:240:LEU:HA	1.72	0.53
2:K3:47:ASP:N	2:K3:47:ASP:OD1	2.41	0.53
1:L2:69:GLU:C	1:L2:92:PHE:HZ	2.10	0.53
2:L7:221:ARG:HG2	2:L7:221:ARG:O	2.08	0.53
1:M0:275:SER:HG	1:M0:278:SER:HG	1.57	0.53
1:M4:5:VAL:HG23	1:M4:62:ARG:HG2	1.90	0.53
1:M6:114:ASP:N	1:M6:114:ASP:OD1	2.41	0.53
1:M8:107:THR:OG1	1:M8:401:GLU:OE2	2.22	0.53
1:M8:117:LEU:HA	1:M8:120:VAL:HG12	1.88	0.53
1:N2:117:LEU:HA	1:N2:120:VAL:HG12	1.89	0.53
1:O0:131:GLN:HE22	1:O0:249:ASP:HB3	1.72	0.53
1:O2:139:LEU:HD12	1:O2:170:VAL:HG12	1.90	0.53
2:O9:187:SER:O	2:O9:191:THR:HG23	2.09	0.53
1:P4:8:GLN:OE1	1:P4:17:GLY:HA3	2.09	0.53
2:P7:88:HIS:HB2	2:R3:283:HIS:ND1	2.23	0.53
1:P8:190:HIS:CD2	1:P8:414:ASN:HB2	2.43	0.53
2:R7:372:GLN:NE2	7:4R:203:THR:HG21	2.22	0.53
1:S6:66:MET:HE3	1:S6:116:VAL:HG21	1.91	0.53
1:S6:417:ASP:OD1	1:S6:418:LEU:N	2.41	0.53
1:T0:321:MET:HG2	1:T0:363:MET:SD	2.48	0.53
1:U4:211:CYS:HB3	1:U4:217:LEU:HD12	1.90	0.53
1:U6:122:LYS:NZ	1:W2:291:GLN:HB3	2.22	0.53
1:U8:177:ASP:OD2	2:U9:248:LEU:HD11	2.09	0.53
1:V2:4:ILE:HB	1:V2:50:TYR:HE1	1.72	0.53
1:V2:175:VAL:HG13	2:V3:329:ASN:HD21	1.73	0.53
2:V3:363:VAL:HG23	2:V3:366:GLY:HA3	1.90	0.53
1:V4:260:PHE:HB2	1:V4:263:LEU:HD23	1.89	0.53
1:W0:215:LEU:HB3	1:W0:217:LEU:HG	1.90	0.53
2:W9:14:ILE:CD1	2:W9:74:VAL:HG11	2.38	0.53
2:W9:225:THR:HG22	2:W9:229:ARG:HE	1.73	0.53
2:X5:211:ASP:HB3	2:X5:215:ARG:HH12	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X6:50:TYR:OH	1:X6:237:THR:OG1	2.24	0.53
2:X7:281:ALA:HB1	8:4W:209:ARG:CZ	2.39	0.53
1:Y6:3:GLU:HB2	1:Y6:130:LEU:HA	1.89	0.53
1:Z0:374:ILE:O	1:Z0:377:MET:HG3	2.07	0.53
2:Z1:286:LEU:HD11	2:Z1:372:GLN:HB2	1.89	0.53
1:Z2:207:LEU:HB3	1:Z2:225:LEU:HD22	1.90	0.53
2:Z3:49:PHE:HE2	2:Z3:55:GLU:HG3	1.72	0.53
1:Z4:8:GLN:OE1	1:Z4:136:CYS:HB3	2.07	0.53
1:Z8:166:THR:OG1	1:Z8:199:CYS:HB3	2.08	0.53
2:0J:384:ILE:HD12	2:0J:384:ILE:H	1.73	0.53
2:0L:324:VAL:HG12	2:0L:326:LYS:H	1.72	0.53
2:0R:52:PHE:CE2	2:0R:243:ARG:HD3	2.44	0.53
2:0V:90:GLU:O	2:0V:121:ARG:NH1	2.24	0.53
1:0Y:26:ASP:O	1:0Y:359:LYS:NZ	2.33	0.53
1:0Y:134:GLN:HE21	1:0Y:167:PHE:HE2	1.55	0.53
1:1A:335:ASN:O	1:1A:338:SER:OG	2.26	0.53
2:1D:108:TYR:HB2	2:1D:411:GLU:OE2	2.08	0.53
2:1L:132:LEU:HD22	2:1L:164:LYS:HD3	1.90	0.53
2:2H:305:CYS:SG	2:2H:383:ALA:HB1	2.48	0.53
1:2S:211:CYS:HA	1:2S:215:LEU:HB2	1.90	0.53
1:2U:320:ARG:NH2	38:8B:201:LEU:HD23	2.22	0.53
1:2Y:6:HIS:CE1	1:2Y:136:CYS:HG	2.26	0.53
2:2Z:147:SER:OG	2:2Z:190:SER:HB2	2.08	0.53
1:3A:282:ARG:HE	1:3A:288:GLU:CG	2.21	0.53
2:3B:214:ARG:HH22	38:8C:17:GLY:N	2.05	0.53
1:3K:11:GLN:N	39:3K:503:GDP:O1B	2.27	0.53
3:3V:207:ASN:O	3:3V:209:ARG:NH2	2.41	0.53
3:3Z:207:ASN:O	3:3Z:209:ARG:NH2	2.41	0.53
3:4D:207:ASN:O	3:4D:209:ARG:NH2	2.41	0.53
3:4H:119:THR:HG23	3:4H:122:ARG:H	1.73	0.53
3:4H:207:ASN:O	3:4H:209:ARG:NH2	2.41	0.53
6:4O:290:GLU:OE2	6:4O:293:ARG:NH1	2.41	0.53
8:4W:468:MET:HE3	8:4W:470:TYR:CE1	2.42	0.53
14:5M:415:LYS:HZ1	23:6R:22:MET:HG3	1.72	0.53
15:5O:282:LEU:O	15:5O:284:VAL:N	2.41	0.53
22:6P:128:GLU:N	22:6P:128:GLU:OE1	2.41	0.53
24:6T:96:LEU:HD22	24:6T:188:THR:HG22	1.89	0.53
24:6U:223:ARG:NH1	24:6U:223:ARG:HA	2.22	0.53
24:6V:130:MET:HB3	24:6V:153:VAL:HG23	1.90	0.53
24:6X:473:TYR:HA	24:6X:480:ASN:HB3	1.90	0.53
24:6Z:42:GLU:N	24:6Z:42:GLU:OE1	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:6Z:88:TRP:HA	24:6Z:126:GLU:HG2	1.90	0.53
24:7A:135:PRO:HG2	24:7A:137:GLN:HE22	1.74	0.53
27:7G:208:ASP:N	27:7G:208:ASP:OD1	2.39	0.53
38:8D:62:THR:O	38:8D:65:VAL:HG12	2.08	0.53
1:A7:280:GLN:NE2	24:6T:106:VAL:HA	2.22	0.53
2:E7:56:THR:HG23	2:G3:285:GLN:HA	1.90	0.53
1:G2:216:LYS:C	24:6W:422:ASN:HD21	2.11	0.53
2:G3:274:PRO:HB2	2:G3:276:ILE:HG12	1.90	0.53
2:G3:333:ALA:O	2:G3:337:THR:HG23	2.09	0.53
2:G5:71:GLU:HG3	1:G6:2:ARG:NH1	2.23	0.53
2:G5:187:SER:O	2:G5:191:THR:HG23	2.07	0.53
2:G7:88:HIS:HD2	2:G7:89:PRO:HD2	1.65	0.53
2:H1:287:SER:OG	2:H1:288:VAL:N	2.41	0.53
2:H3:289:ALA:O	2:H3:293:ASN:ND2	2.42	0.53
2:I5:172:TYR:CE2	2:I5:203:MET:HG2	2.43	0.53
2:J3:11:GLN:OE1	2:J3:15:GLN:NE2	2.41	0.53
2:J3:312:TYR:HD1	2:J3:381:SER:HB3	1.73	0.53
2:L3:121:ARG:CZ	2:L3:124:LYS:HE3	2.38	0.53
2:M3:26:LEU:HD11	2:M3:364:PRO:HD3	1.90	0.53
2:M3:324:VAL:HG21	2:M3:326:LYS:HE3	1.90	0.53
2:M3:417:GLU:HA	2:M3:420:GLU:HG2	1.90	0.53
1:M6:2:ARG:HE	1:M6:240:LEU:HD22	1.71	0.53
1:M6:140:GLY:O	1:M6:184:ASN:ND2	2.39	0.53
1:M6:287:PRO:HA	1:M6:290:THR:HG22	1.89	0.53
1:M8:139:LEU:HD12	1:M8:170:VAL:HG12	1.89	0.53
1:N0:177:ASP:O	2:N1:352:LYS:HA	2.08	0.53
1:N6:52:ASN:OD1	1:N6:62:ARG:NH2	2.41	0.53
1:N8:20:PHE:HA	1:N8:230:SER:OG	2.07	0.53
1:O2:21:TRP:O	1:O2:25:SER:OG	2.21	0.53
2:O5:102:ASN:HB3	2:O5:105:ARG:HB3	1.90	0.53
1:Q4:20:PHE:HA	1:Q4:230:SER:OG	2.08	0.53
1:Q4:186:THR:HG23	1:Q4:187:LEU:HD12	1.91	0.53
1:Q4:406:MET:O	1:Q4:410:GLU:HG2	2.08	0.53
1:Q8:137:HIS:NE2	1:Q8:166:THR:OG1	2.41	0.53
2:R1:90:GLU:HB3	2:R1:121:ARG:NH1	2.23	0.53
1:R4:301:CYS:SG	1:R4:302:ALA:N	2.81	0.53
2:R9:84:ARG:NH1	33:7Q:173:SER:HB3	2.23	0.53
1:S2:135:VAL:HG11	1:S2:152:ILE:HD11	1.90	0.53
2:S5:72:PRO:HD2	1:S6:2:ARG:NH1	2.24	0.53
1:T0:252:LYS:HA	1:T0:255:VAL:CG1	2.34	0.53
2:T1:145:THR:OG1	41:T2:501:GTP:O1B	2.25	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T6:11:GLN:HE22	2:T7:248:LEU:HA	1.73	0.53
2:U3:336:LYS:NZ	2:U3:348:PRO:O	2.40	0.53
2:U5:76:ASP:HB3	2:U5:79:ARG:NH1	2.24	0.53
2:U5:81:GLY:O	2:U5:84:ARG:HG3	2.08	0.53
2:U5:384:ILE:HA	2:U5:387:ILE:HD12	1.91	0.53
1:V4:274:THR:HG21	1:V4:282:ARG:HD2	1.90	0.53
2:V9:311:LYS:HG2	2:V9:342:GLN:HG3	1.89	0.53
2:X9:213:CYS:HA	2:X9:217:LEU:HD12	1.90	0.53
2:Y3:282:TYR:HD2	8:4W:373:ASN:HD22	0.62	0.53
2:Z1:407:TRP:HZ2	1:Z2:258:ILE:HB	1.72	0.53
1:Z4:177:ASP:O	2:Z5:352:LYS:HA	2.07	0.53
1:Z8:86:ARG:HG2	1:Z8:88:ASP:H	1.72	0.53
1:Z8:391:ARG:HB2	2:Z9:346:TRP:CD1	2.43	0.53
1:0A:27:GLU:OE1	1:0A:318:ARG:NH2	2.41	0.53
2:0F:195:LEU:HD21	2:0F:264:ARG:HG2	1.91	0.53
2:0J:181:VAL:HG12	1:0K:347:ASN:O	2.08	0.53
1:0W:114:ASP:OD1	1:0W:114:ASP:N	2.37	0.53
1:1E:40:SER:HB2	1:1E:42:LEU:HD12	1.91	0.53
2:1H:90:GLU:O	2:1H:121:ARG:NH1	2.41	0.53
2:1L:85:GLN:O	2:2B:283:HIS:CE1	2.62	0.53
1:1Q:335:ASN:O	1:1Q:338:SER:OG	2.25	0.53
2:1R:116:ASP:N	2:1R:116:ASP:OD1	2.40	0.53
1:1U:3:GLU:HB2	1:1U:130:LEU:HA	1.89	0.53
2:1V:156:ARG:HA	2:1V:159:VAL:HG12	1.90	0.53
2:1Z:141:VAL:CG2	2:1Z:187:SER:HA	2.37	0.53
2:1Z:157:LEU:HD22	2:1Z:166:LYS:HD3	1.90	0.53
2:2H:68:LEU:HA	2:2H:93:ILE:O	2.07	0.53
2:2J:213:CYS:HA	2:2J:217:LEU:HG	1.90	0.53
2:2L:317:LEU:HB3	2:2L:319:TYR:HE1	1.72	0.53
1:2M:371:SER:OG	1:2M:372:THR:N	2.41	0.53
2:2Z:88:HIS:NE2	2:2Z:90:GLU:HB3	2.23	0.53
1:3A:325:GLU:O	1:3A:329:GLN:HG2	2.07	0.53
1:3C:332:ASN:HD21	38:8C:1:MET:N	2.06	0.53
2:3D:90:GLU:HB3	2:3T:283:HIS:CE1	2.43	0.53
1:3G:88:ASP:OD1	3:3X:262:TYR:HB3	2.07	0.53
2:3N:8:HIS:CD2	2:3N:138:PHE:HD2	2.25	0.53
1:3Q:11:GLN:N	39:3Q:501:GDP:O1B	2.31	0.53
5:4M:293:LEU:HB2	28:7X:306:LEU:HD21	1.89	0.53
10:5C:205:GLN:O	10:5C:208:GLU:HG3	2.09	0.53
15:5P:99:LYS:HB2	15:5P:204:ALA:HA	1.90	0.53
17:5V:179:GLN:HA	17:5V:179:GLN:HE21	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:6K:172:ARG:HH11	22:6K:215:GLY:HA3	1.73	0.53
24:6T:88:TRP:HA	24:6T:126:GLU:HG2	1.90	0.53
24:6T:111:MET:HG2	24:6T:213:TYR:CE2	2.43	0.53
24:6Z:278:VAL:HG11	24:6Z:395:VAL:HG11	1.90	0.53
26:7E:133:PHE:CD2	26:7E:134:LEU:HB2	2.44	0.53
2:4:29:GLY:O	26:7D:45:MET:HE3	2.07	0.53
1:D4:78:SER:OG	24:6Y:323:LYS:HG3	2.09	0.53
1:E2:32:PRO:HG3	24:6U:402:LYS:HE3	1.90	0.53
2:G1:317:LEU:HB3	2:G1:319:TYR:CE1	2.43	0.53
1:G4:5:VAL:HG22	1:G4:62:ARG:HD3	1.90	0.53
2:G7:98:ASP:OD1	2:G7:99:ALA:N	2.40	0.53
2:H5:88:HIS:ND1	2:J1:283:HIS:HA	2.23	0.53
2:H5:205:ASP:OD2	2:H5:303:VAL:HG13	2.09	0.53
2:H7:181:VAL:HG13	2:H7:182:VAL:HG13	1.90	0.53
2:I3:217:LEU:HB3	2:I3:219:ILE:HD12	1.89	0.53
1:J6:174:LYS:HB2	1:J6:205:GLU:OE2	2.08	0.53
2:J9:370:LYS:HD2	5:4M:266:PHE:HE2	1.73	0.53
2:K7:156:ARG:HA	2:K7:159:VAL:HG12	1.90	0.53
1:K8:216:LYS:NZ	16:5Q:184:GLU:O	2.41	0.53
1:L4:339:SER:H	35:7U:147:ASN:ND2	2.06	0.53
1:L4:388:MET:CE	2:L5:348:PRO:HD2	2.39	0.53
2:L7:62:VAL:HB	2:L7:88:HIS:CE1	2.42	0.53
1:M4:3:GLU:HB2	1:M4:130:LEU:HA	1.89	0.53
2:M7:222:PRO:HD2	1:M8:324:LYS:HE3	1.90	0.53
2:M9:372:GLN:HG2	30:7K:24:PRO:HB2	1.90	0.53
1:N0:212:PHE:HZ	2:N1:326:LYS:HG3	1.73	0.53
2:N3:70:LEU:HD13	2:N3:145:THR:HG23	1.91	0.53
1:N6:117:LEU:HA	1:N6:120:VAL:HG12	1.89	0.53
1:N8:91:VAL:HG11	1:N8:116:VAL:HG12	1.91	0.53
2:O3:214:ARG:NH2	37:7Y:84:ARG:HH12	2.06	0.53
1:O6:40:SER:HB3	32:7P:112:LEU:HD13	1.91	0.53
2:O9:266:HIS:ND1	2:O9:266:HIS:O	2.39	0.53
2:P5:9:ILE:HG13	2:P5:139:ASN:HB3	1.90	0.53
2:P7:367:ASP:N	2:P7:367:ASP:OD2	2.41	0.53
1:P8:207:LEU:HB3	1:P8:225:LEU:HD22	1.90	0.53
1:P8:273:LEU:H	1:P8:292:GLN:HE22	1.56	0.53
1:Q4:175:VAL:HG22	2:Q5:329:ASN:ND2	2.22	0.53
2:R1:333:ALA:O	2:R1:337:THR:HG23	2.08	0.53
1:R2:397:TRP:CE3	1:R2:397:TRP:HA	2.42	0.53
1:R4:173:PRO:HB3	1:R4:384:GLN:HE22	1.73	0.53
1:S0:274:THR:OG1	1:S0:282:ARG:NH1	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S1:88:HIS:CG	2:S1:89:PRO:CD	2.89	0.53
2:T3:191:THR:O	2:T3:195:LEU:HG	2.08	0.53
2:U9:312:TYR:HB2	2:U9:343:PHE:HD1	1.72	0.53
1:V0:138:SER:OG	1:V0:139:LEU:N	2.39	0.53
2:V3:111:GLY:HA2	2:V3:114:ILE:HG22	1.90	0.53
2:V9:76:ASP:HA	2:V9:79:ARG:HB2	1.90	0.53
1:W2:11:GLN:N	39:W2:503:GDP:O2B	2.39	0.53
1:W4:263:LEU:HD13	1:W4:422:TYR:HE1	1.73	0.53
1:X0:25:SER:OG	1:X0:30:ILE:O	2.27	0.53
2:X5:276:ILE:HG23	2:X5:280:LYS:HB2	1.91	0.53
2:X5:287:SER:N	2:X5:290:GLU:OE2	2.24	0.53
1:Y6:47:ILE:HD12	1:Y6:59:TYR:CE1	2.43	0.53
2:Z1:322:ASP:OD2	2:Z1:373:ARG:NH2	2.41	0.53
2:Z3:232:ALA:HA	2:Z3:235:ILE:HG22	1.90	0.53
1:Z4:195:ASN:OD1	1:Z4:196:ALA:N	2.41	0.53
1:0C:274:THR:OG1	1:0C:282:ARG:NH1	2.41	0.53
1:0E:233:MET:N	1:0E:233:MET:SD	2.82	0.53
1:0I:179:VAL:HB	2:0J:258:ASN:HD22	1.72	0.53
1:0I:290:THR:HA	1:0I:293:MET:HB2	1.90	0.53
2:0N:90:GLU:O	2:0N:121:ARG:NH1	2.41	0.53
1:0U:139:LEU:HG	1:0U:168:SER:HB2	1.89	0.53
1:0W:72:THR:O	1:0W:76:VAL:HG23	2.07	0.53
1:1C:77:ARG:HH21	1:1C:90:PHE:HD2	1.56	0.53
1:1G:139:LEU:HD12	1:1G:170:VAL:HG22	1.88	0.53
2:1L:121:ARG:C	2:1L:121:ARG:CD	2.76	0.53
2:1P:276:ILE:CG1	2:1P:281:ALA:HB2	2.39	0.53
2:1Z:245:ASP:OD1	2:1Z:245:ASP:N	2.39	0.53
1:2C:14:ASN:HD22	1:2C:65:LEU:HD22	1.74	0.53
2:2D:50:ASN:O	2:2D:64:ARG:NH2	2.42	0.53
2:2D:113:GLU:HG2	38:8A:7:ASP:HA	1.88	0.53
2:2H:123:ARG:HH22	38:8B:37:TYR:CB	2.21	0.53
2:2T:214:ARG:NH2	38:8A:18:VAL:HA	2.23	0.53
2:2Z:213:CYS:HA	2:2Z:217:LEU:HB2	1.90	0.53
2:2Z:381:SER:OG	2:2Z:382:THR:N	2.42	0.53
1:3A:3:GLU:HB2	1:3A:130:LEU:HA	1.91	0.53
1:3C:139:LEU:HG	1:3C:168:SER:OG	2.09	0.53
1:3C:211:CYS:HB3	1:3C:217:LEU:HD12	1.90	0.53
2:3F:222:PRO:HD2	1:3G:324:LYS:HE3	1.89	0.53
2:3F:398:MET:HG3	1:3G:346:PRO:HD2	1.90	0.53
2:3J:283:HIS:HD2	2:3J:284:GLU:HB2	1.73	0.53
2:3R:339:ARG:HH22	2:3R:342:GLN:HB3	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4J:212:SER:O	3:4J:216:ILE:HG12	2.07	0.53
15:5O:257:ASP:OD1	15:5O:258:LEU:N	2.42	0.53
19:6E:92:ARG:HD3	19:6E:99:ARG:CZ	2.38	0.53
26:7F:48:LEU:N	26:7F:49:PRO:CD	2.70	0.53
36:7W:76:GLN:OE1	36:7W:76:GLN:HA	2.09	0.53
2:B4:80:THR:HG22	18:6A:169:LYS:O	2.08	0.53
1:F6:122:LYS:HE3	1:H2:291:GLN:HB3	1.88	0.53
1:G2:72:THR:O	1:G2:76:VAL:HG23	2.08	0.53
1:H2:404:ASP:HB3	1:H2:406:MET:SD	2.48	0.53
1:H4:52:ASN:OD1	1:H4:62:ARG:NH1	2.41	0.53
2:H5:290:GLU:HA	2:H5:293:ASN:HD22	1.73	0.53
2:H5:430:LYS:O	2:H5:433:GLU:HG3	2.09	0.53
2:I3:101:ASN:ND2	2:I3:143:GLY:HA2	2.22	0.53
1:I8:7:ILE:HB	1:I8:135:VAL:HG22	1.90	0.53
1:I8:271:THR:HG23	1:I8:365:ALA:HB3	1.88	0.53
1:J0:7:ILE:HB	1:J0:135:VAL:HG22	1.89	0.53
1:J2:113:ILE:HG21	1:J2:150:LEU:HD22	1.91	0.53
2:J7:271:SER:OG	2:J7:377:MET:HB3	2.09	0.53
2:K1:223:THR:HG22	2:K1:224:TYR:H	1.74	0.53
2:L3:245:ASP:OD1	2:L3:245:ASP:N	2.42	0.53
2:M3:156:ARG:HA	2:M3:159:VAL:HG12	1.91	0.53
2:M5:57:GLY:HA3	1:O2:280:GLN:O	2.09	0.53
1:M6:54:ALA:HA	2:O3:285:GLN:HB2	1.90	0.53
1:M6:86:ARG:NH1	1:M6:123:GLU:OE2	2.41	0.53
2:M7:91:GLN:HE21	2:M7:125:LEU:HD21	1.74	0.53
2:M7:346:TRP:CZ3	2:M7:347:CYS:HB3	2.43	0.53
2:M9:259:LEU:HD11	2:M9:316:CYS:HB2	1.90	0.53
2:M9:287:SER:OG	2:M9:288:VAL:N	2.41	0.53
2:N1:147:SER:OG	2:N1:148:GLY:N	2.42	0.53
2:N3:386:GLU:O	2:N3:390:ARG:HG3	2.09	0.53
1:O2:50:TYR:OH	1:O2:237:THR:OG1	2.24	0.53
2:O5:62:VAL:HG23	2:O5:62:VAL:O	2.08	0.53
1:O8:99:ASN:ND2	2:O9:254:GLU:OE1	2.41	0.53
2:P3:266:HIS:O	2:P3:266:HIS:ND1	2.41	0.53
1:P8:20:PHE:HA	1:P8:230:SER:HB2	1.90	0.53
1:Q6:173:PRO:HG3	1:Q6:380:ARG:HD2	1.90	0.53
2:R1:145:THR:OG1	41:R2:501:GTP:O1B	2.25	0.53
2:S1:170:THR:HG21	2:S1:194:LEU:HD11	1.91	0.53
1:S6:39:ASP:OD1	1:S6:40:SER:N	2.41	0.53
2:S9:79:ARG:NH1	2:S9:94:SER:OG	2.41	0.53
1:T0:39:ASP:OD1	1:T0:39:ASP:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T0:248:ALA:HA	1:T0:252:LYS:CD	2.19	0.53
1:T2:1:MET:HA	1:T2:1:MET:CE	2.37	0.53
1:T6:80:PRO:O	1:T6:81:TYR:HB2	2.09	0.53
2:U1:72:PRO:HD2	1:U2:2:ARG:NH1	2.24	0.53
2:U9:287:SER:N	2:U9:290:GLU:OE2	2.36	0.53
1:V0:31:ASP:OD2	1:V0:33:THR:OG1	2.22	0.53
1:V0:322:SER:HB3	1:V0:325:GLU:HB2	1.91	0.53
1:V4:156:ARG:NH1	1:V4:197:ASP:OD2	2.41	0.53
2:V7:277:SER:OG	2:V7:278:ALA:N	2.42	0.53
1:X0:3:GLU:OE1	1:X0:62:ARG:NH1	2.41	0.53
2:X3:109:THR:OG1	2:X3:411:GLU:OE2	2.19	0.53
2:X7:121:ARG:HD2	2:X7:124:LYS:HE3	1.89	0.53
2:Y1:181:VAL:HG23	1:Y2:256:ASN:HD22	1.74	0.53
2:Y5:109:THR:OG1	2:Y5:411:GLU:OE2	2.23	0.53
1:Z0:179:VAL:HG22	2:Z1:258:ASN:HD22	1.73	0.53
1:Z2:127:CYS:SG	1:Z2:130:LEU:HG	2.48	0.53
2:Z5:86:LEU:HD12	2:Z5:86:LEU:O	2.09	0.53
1:0C:152:ILE:HD13	1:0C:155:ILE:HD11	1.90	0.53
2:0F:268:MET:SD	2:0F:380:ASN:HB2	2.49	0.53
1:0G:335:ASN:O	1:0G:338:SER:OG	2.27	0.53
2:0H:381:SER:OG	2:0H:382:THR:N	2.41	0.53
2:0N:55:GLU:O	2:1D:285:GLN:NE2	2.40	0.53
2:0R:56:THR:HA	2:1H:285:GLN:HB2	1.89	0.53
2:0R:203:MET:SD	2:0R:203:MET:N	2.82	0.53
2:0X:35:GLN:HB3	2:0X:59:GLY:O	2.08	0.53
2:1D:313:MET:HB2	2:1D:380:ASN:HB3	1.90	0.53
2:1P:213:CYS:HB3	2:1P:219:ILE:HD11	1.90	0.53
2:1R:289:ALA:O	2:1R:293:ASN:ND2	2.42	0.53
2:1T:202:VAL:HG22	2:1T:268:MET:HB2	1.89	0.53
2:1V:5:ILE:HG22	2:1V:64:ARG:HB3	1.90	0.53
2:1X:116:ASP:OD1	2:1X:116:ASP:N	2.38	0.53
2:1Z:56:THR:O	2:1Z:56:THR:OG1	2.23	0.53
1:2E:72:THR:O	1:2E:76:VAL:HG23	2.09	0.53
2:2L:246:GLY:N	2:2L:249:ASN:HD21	2.06	0.53
1:2U:245:GLN:NE2	38:8B:198:THR:HG21	2.23	0.53
2:2X:192:HIS:CD2	2:2X:421:ALA:HA	2.44	0.53
2:3D:297:GLU:OE2	38:8D:73:TRP:HA	2.08	0.53
1:3G:49:VAL:HG11	1:3G:241:ARG:HG2	1.90	0.53
1:3I:391:ARG:HD3	2:3J:346:TRP:CE2	2.44	0.53
2:3L:56:THR:OG1	3:4B:34:SER:HA	2.07	0.53
2:3N:223:THR:HG23	2:3N:225:THR:H	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:4U:99:GLU:OE1	7:4U:99:GLU:N	2.41	0.53
11:5E:242:ILE:HD11	11:5E:247:LEU:HD23	1.90	0.53
14:5L:13:PHE:CZ	14:5L:318:ILE:HG13	2.42	0.53
14:5L:287:GLY:HA3	14:5L:330:LEU:HD12	1.89	0.53
14:5M:287:GLY:HA3	14:5M:330:LEU:HD12	1.89	0.53
19:6E:20:LEU:HD22	19:6E:24:TRP:CE3	2.43	0.53
20:6F:348:GLU:OE2	20:6F:348:GLU:HA	2.07	0.53
24:6V:277:CYS:HA	24:6V:368:LEU:HA	1.90	0.53
24:7A:88:TRP:HA	24:7A:126:GLU:HG3	1.91	0.53
25:7C:22:GLN:HA	25:7C:22:GLN:OE1	2.07	0.53
38:8A:164:GLU:HA	38:8A:164:GLU:OE1	2.08	0.53
1:C8:78:SER:OG	24:6V:323:LYS:HG3	2.08	0.53
2:G1:344:VAL:HG13	2:G1:347:CYS:H	1.74	0.53
2:G9:393:HIS:O	2:G9:397:LEU:HG	2.09	0.53
1:H2:178:THR:OG1	1:H2:181:GLU:HG3	2.08	0.53
1:I2:117:LEU:HA	1:I2:120:VAL:HG12	1.91	0.53
2:I5:21:TRP:CD1	2:I5:87:PHE:HZ	2.26	0.53
2:J5:381:SER:OG	2:J5:382:THR:N	2.40	0.53
2:K1:269:LEU:CD1	2:K1:303:VAL:HB	2.39	0.53
2:K1:306:ASP:HB3	2:K1:309:HIS:HD2	1.74	0.53
2:K1:344:VAL:HG13	2:K1:346:TRP:H	1.73	0.53
2:L1:66:ILE:O	2:L1:66:ILE:HG13	2.08	0.53
1:L2:117:LEU:HA	1:L2:120:VAL:HG12	1.90	0.53
1:L4:135:VAL:HG21	1:L4:152:ILE:HD11	1.89	0.53
2:L5:167:LEU:HD22	2:L5:200:VAL:HB	1.90	0.53
2:N1:9:ILE:HD11	2:N1:153:LEU:HD23	1.91	0.53
2:N1:11:GLN:NE2	1:N2:247:ASN:OD1	2.41	0.53
2:N1:90:GLU:N	1:O8:281:TYR:OH	2.41	0.53
1:N6:91:VAL:HG11	1:N6:116:VAL:HG12	1.91	0.53
1:N6:207:LEU:HB3	1:N6:225:LEU:HD22	1.91	0.53
1:N8:14:ASN:HD22	1:N8:65:LEU:HD22	1.73	0.53
1:O0:211:CYS:SG	1:O0:220:PRO:HB3	2.48	0.53
1:O0:361:LEU:CD2	27:7G:54:HIS:HB2	2.39	0.53
2:O3:311:LYS:NZ	2:O3:342:GLN:OE1	2.41	0.53
1:O6:309:ARG:H	1:O6:372:THR:HG22	1.71	0.53
2:O7:240:ALA:HB1	2:O7:356:ASN:HD22	1.72	0.53
2:O7:394:LYS:HB2	1:O8:346:PRO:HG3	1.91	0.53
2:P9:333:ALA:O	2:P9:337:THR:HG23	2.09	0.53
2:Q1:212:ILE:O	2:Q1:216:SER:OG	2.24	0.53
2:R1:166:LYS:N	2:R1:199:ASP:OD2	2.37	0.53
1:R2:290:THR:HG21	1:R2:329:GLN:HE21	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R6:301:CYS:SG	1:R6:302:ALA:N	2.82	0.53
2:S1:88:HIS:HD2	2:S1:89:PRO:HD3	1.69	0.53
1:S4:67:ASP:N	1:S4:67:ASP:OD1	2.40	0.53
1:S4:194:GLU:OE1	1:S4:194:GLU:N	2.41	0.53
2:S7:8:HIS:CD2	2:S7:138:PHE:HD2	2.26	0.53
2:S9:346:TRP:CH2	2:S9:435:VAL:HG13	2.43	0.53
1:T0:213:ARG:HH21	1:T0:297:LYS:HE2	1.74	0.53
2:T1:405:VAL:HG11	2:T1:415:GLU:OE2	2.08	0.53
2:T1:423:GLU:OE2	17:5T:19:ARG:NH2	2.24	0.53
2:U3:405:VAL:HG13	2:U3:418:PHE:HE2	1.72	0.53
2:U5:277:SER:H	2:U5:280:LYS:HZ3	1.57	0.53
1:U6:208:TYR:CE1	1:U6:225:LEU:HD11	2.44	0.53
2:U7:51:THR:HG21	2:U7:243:ARG:HG2	1.90	0.53
1:U8:328:GLU:O	1:U8:332:ASN:ND2	2.42	0.53
2:V3:88:HIS:CD2	2:V3:90:GLU:H	2.27	0.53
2:V7:183:GLU:HG3	2:V7:184:PRO:HD3	1.90	0.53
2:V9:33:ASP:OD2	2:V9:35:GLN:NE2	2.41	0.53
2:V9:133:GLN:HB3	2:V9:252:ILE:HG21	1.90	0.53
1:W0:100:ASN:HB3	1:W0:103:LYS:HB2	1.89	0.53
1:W0:375:GLN:HB2	1:W0:419:VAL:HG13	1.91	0.53
2:W3:81:GLY:O	2:W3:84:ARG:NH1	2.42	0.53
2:W9:203:MET:O	2:W9:204:LEU:HD23	2.08	0.53
1:X6:2:ARG:NE	1:X6:240:LEU:HD22	2.23	0.53
1:Y0:33:THR:O	1:Y0:58:ARG:NH2	2.41	0.53
1:Y0:52:ASN:OD1	1:Y0:62:ARG:NH2	2.41	0.53
1:Y0:101:TRP:HE3	1:Y0:403:MET:HE1	1.72	0.53
2:Y1:244:PHE:HB2	2:Y1:356:ASN:HD21	1.73	0.53
2:Y1:399:TYR:O	2:Y1:402:ARG:NH1	2.41	0.53
1:Y2:49:VAL:HG11	1:Y2:241:ARG:HG2	1.90	0.53
1:Y2:52:ASN:OD1	1:Y2:62:ARG:NH2	2.40	0.53
1:Y8:207:LEU:HB3	1:Y8:225:LEU:HD22	1.89	0.53
2:Y9:276:ILE:HG23	2:Y9:280:LYS:HB3	1.91	0.53
2:Z1:223:THR:HG23	2:Z1:225:THR:H	1.72	0.53
2:0F:297:GLU:HG2	2:0F:298:PRO:HD2	1.90	0.53
2:0H:274:PRO:HG3	2:0H:286:LEU:HD11	1.91	0.53
2:0J:387:ILE:HD12	2:0J:390:ARG:HH22	1.73	0.53
2:0L:65:CYS:SG	2:0L:66:ILE:N	2.82	0.53
1:0Q:139:LEU:HG	1:0Q:168:SER:HB2	1.89	0.53
1:1C:134:GLN:HE21	1:1C:167:PHE:HE2	1.56	0.53
2:1D:88:HIS:HD2	2:1D:121:ARG:NH2	2.06	0.53
2:1F:223:THR:HG23	2:1F:225:THR:H	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1H:98:ASP:CG	2:1H:100:ALA:H	2.12	0.53
2:1R:178:SER:HB3	2:1R:183:GLU:OE2	2.09	0.53
2:1V:93:ILE:HG22	2:1V:93:ILE:O	2.08	0.53
1:2C:345:ILE:HB	1:2C:348:ASN:HD21	1.73	0.53
2:2P:392:ASP:OD1	2:2P:422:ARG:NH1	2.42	0.53
1:2Q:7:ILE:HB	1:2Q:135:VAL:HG12	1.91	0.53
1:2S:114:ASP:OD2	1:2S:115:SER:N	2.41	0.53
2:2V:336:LYS:O	2:2V:339:ARG:NH2	2.42	0.53
2:2Z:392:ASP:OD2	2:2Z:422:ARG:NH1	2.41	0.53
1:3G:276:ARG:HH22	17:5S:216:GLU:HG2	1.73	0.53
2:3P:100:ALA:HB1	1:3Q:252:LYS:HB3	1.91	0.53
2:3P:132:LEU:HD23	2:3P:164:LYS:HE3	1.91	0.53
6:4O:118:SER:O	6:4O:122:VAL:HG23	2.08	0.53
7:4Q:324:GLN:HA	24:6T:22:LEU:HD23	1.90	0.53
7:4R:11:GLU:N	7:4R:11:GLU:OE1	2.41	0.53
10:5B:234:LEU:O	10:5B:238:GLU:HG2	2.09	0.53
12:5G:370:ARG:HA	12:5G:376:ARG:O	2.08	0.53
14:5M:13:PHE:CZ	14:5M:318:ILE:HG13	2.42	0.53
15:5O:4:ASN:N	15:5O:4:ASN:OD1	2.41	0.53
20:6F:125:LYS:HE3	20:6F:344:LEU:HD21	1.90	0.53
22:6J:17:ILE:HG22	22:6J:19:GLY:H	1.74	0.53
24:7A:113:ASN:OD1	24:7A:114:HIS:ND1	2.35	0.53
2:C9:36:MET:HB2	22:6K:76:LYS:HE3	1.89	0.53
1:E0:204:ASN:HD21	39:E0:501:GDP:HN22	1.54	0.53
2:F5:221:ARG:HB2	22:6I:178:GLY:HA2	1.90	0.53
1:G6:3:GLU:OE1	1:G6:62:ARG:NH1	2.37	0.53
2:H5:267:PHE:HB2	2:H5:384:ILE:HD12	1.90	0.53
2:H9:98:ASP:OD1	2:H9:99:ALA:N	2.42	0.53
2:I1:189:LEU:HD11	2:I1:418:PHE:HE1	1.74	0.53
2:J7:216:SER:O	2:J7:280:LYS:HE2	2.09	0.53
2:J7:274:PRO:HB2	2:J7:276:ILE:HG12	1.91	0.53
1:J8:139:LEU:HD12	1:J8:170:VAL:HG12	1.91	0.53
2:K3:111:GLY:HA2	2:K3:114:ILE:HG22	1.91	0.53
1:L2:285:THR:OG1	1:L2:287:PRO:HD2	2.07	0.53
1:L6:205:GLU:H	1:L6:205:GLU:CD	2.12	0.53
2:L9:90:GLU:HG3	2:L9:121:ARG:HH12	1.74	0.53
2:L9:311:LYS:NZ	2:L9:343:PHE:O	2.36	0.53
1:M6:334:GLN:HE22	1:M6:348:ASN:H	1.56	0.53
1:N0:393:ALA:O	1:N0:395:LEU:N	2.42	0.53
2:N3:331:SER:O	2:N3:334:THR:OG1	2.24	0.53
1:N6:204:ASN:HD21	39:N6:503:GDP:HN22	1.57	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O2:113:ILE:HA	1:O2:116:VAL:HG22	1.91	0.53
2:O3:177:VAL:HG11	2:O3:207:GLU:HB2	1.90	0.53
2:O3:322:ASP:HB3	37:7Y:188:LEU:HD11	1.90	0.53
1:O4:107:THR:OG1	1:O4:108:GLU:OE2	2.21	0.53
1:O4:320:ARG:NH2	37:7Y:67:ILE:O	2.42	0.53
2:P3:116:ASP:OD1	2:P3:117:LEU:N	2.42	0.53
1:P4:190:HIS:NE2	1:P4:414:ASN:OD1	2.42	0.53
2:P5:317:LEU:HB3	2:P5:319:TYR:HE1	1.73	0.53
1:Q2:304:ASP:OD2	1:Q2:306:ARG:NH2	2.42	0.53
2:R5:265:ILE:HD11	2:R5:435:VAL:HG21	1.91	0.53
2:R7:405:VAL:HG13	17:5U:112:VAL:HG11	1.91	0.53
2:R9:58:ALA:HB3	7:4U:146:ILE:HG21	1.91	0.53
1:S2:207:LEU:HD13	1:S2:225:LEU:HB3	1.91	0.53
1:S8:222:PHE:CD2	2:S9:247:ALA:HB1	2.44	0.53
2:T1:170:THR:HG21	2:T1:194:LEU:HD11	1.90	0.53
2:T3:51:THR:HG21	2:T3:243:ARG:HG2	1.90	0.53
2:T3:269:LEU:HD21	2:T3:384:ILE:HG13	1.91	0.53
2:U3:216:SER:O	2:U3:280:LYS:NZ	2.41	0.53
2:U9:27:GLU:OE1	2:U9:243:ARG:NH1	2.42	0.53
1:V6:4:ILE:HD12	1:V6:132:GLY:C	2.29	0.53
2:V9:90:GLU:CD	2:V9:90:GLU:H	2.11	0.53
2:W3:88:HIS:HD2	2:X9:283:HIS:HB3	1.73	0.53
2:W9:88:HIS:HB3	2:W9:91:GLN:H	1.72	0.53
1:X0:285:THR:HG23	1:X0:287:PRO:HD2	1.89	0.53
2:X9:129:CYS:SG	2:X9:130:THR:N	2.81	0.53
1:Y4:100:ASN:HB3	1:Y4:103:LYS:HB2	1.91	0.53
2:Z1:176:GLN:HE22	2:Z1:304:LYS:HE2	1.73	0.53
2:Z1:313:MET:HE2	2:Z1:380:ASN:HD22	1.74	0.53
2:Z7:188:VAL:HG23	2:Z7:189:LEU:HD12	1.91	0.53
1:Z8:5:VAL:HG22	1:Z8:62:ARG:HD3	1.89	0.53
2:0F:313:MET:HG3	2:0F:346:TRP:HH2	1.73	0.53
2:0H:9:ILE:HG22	2:0H:146:GLY:HA2	1.89	0.53
1:0I:67:ASP:N	1:0I:67:ASP:OD1	2.41	0.53
1:0I:163:MET:HB3	1:0I:250:LEU:HD22	1.90	0.53
2:0J:175:PRO:HB3	2:0J:390:ARG:HE	1.74	0.53
1:0O:7:ILE:HB	1:0O:135:VAL:HG12	1.90	0.53
1:0O:69:GLU:C	1:0O:92:PHE:HZ	2.12	0.53
1:0Q:83:GLN:O	1:1G:281:TYR:OH	2.18	0.53
1:0Q:309:ARG:NH1	1:0Q:339:SER:O	2.42	0.53
2:0R:25:CYS:SG	2:0R:86:LEU:HD21	2.49	0.53
2:0R:417:GLU:HA	2:0R:420:GLU:HG2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0X:176:GLN:HE22	2:0X:304:LYS:HE2	1.73	0.53
2:0X:368:LEU:H	2:0X:368:LEU:HD23	1.74	0.53
1:1C:350:LYS:NZ	1:1C:351:SER:O	2.42	0.53
2:1D:57:GLY:N	2:1T:285:GLN:OE1	2.39	0.53
2:1F:4:VAL:HG23	2:1F:134:GLY:O	2.08	0.53
1:1G:8:GLN:CD	1:1G:17:GLY:HA3	2.29	0.53
2:1N:267:PHE:HB2	2:1N:384:ILE:HD12	1.91	0.53
2:1V:259:LEU:HD21	2:1V:316:CYS:HB2	1.90	0.53
2:1Z:88:HIS:CD2	2:1Z:89:PRO:CD	2.71	0.53
1:2C:208:TYR:HE1	1:2C:225:LEU:HD11	1.74	0.53
2:2D:287:SER:OG	2:2D:288:VAL:N	2.41	0.53
2:2F:381:SER:OG	2:2F:382:THR:N	2.41	0.53
1:2G:173:PRO:HD2	1:2G:380:ARG:NE	2.24	0.53
1:2I:27:GLU:OE1	1:2I:241:ARG:NH1	2.39	0.53
1:2I:114:ASP:HB3	38:8C:101:ASP:CG	2.29	0.53
1:2I:114:ASP:OD1	38:8C:93:LYS:NZ	2.20	0.53
1:2M:45:GLU:OE1	1:2M:46:ARG:HG2	2.08	0.53
1:2Y:317:PHE:HB3	1:2Y:321:MET:CE	2.38	0.53
1:3C:77:ARG:HG3	1:3C:77:ARG:HH11	1.73	0.53
1:3C:128:ASP:OD1	1:3C:129:CYS:N	2.37	0.53
2:3D:49:PHE:HB2	2:3D:53:PHE:HD2	1.74	0.53
2:3F:288:VAL:O	2:3F:292:THR:HG23	2.09	0.53
2:3J:223:THR:HG22	2:3J:224:TYR:H	1.73	0.53
2:3L:132:LEU:HD23	2:3L:164:LYS:HE3	1.89	0.53
2:3N:287:SER:N	2:3N:290:GLU:OE2	2.21	0.53
1:3S:248:ALA:HA	1:3S:252:LYS:HD2	1.91	0.53
10:5C:488:GLY:HA2	10:5C:491:ARG:HH11	1.73	0.53
13:5H:11:GLU:OE1	13:5H:11:GLU:N	2.33	0.53
13:5I:11:GLU:OE1	13:5I:11:GLU:N	2.33	0.53
13:5K:11:GLU:OE1	13:5K:11:GLU:N	2.33	0.53
14:5L:563:ARG:HG2	14:5L:607:LYS:HZ1	1.74	0.53
14:5M:563:ARG:HG2	14:5M:607:LYS:HZ1	1.74	0.53
14:5N:13:PHE:CZ	14:5N:318:ILE:HG13	2.42	0.53
14:5N:287:GLY:HA3	14:5N:330:LEU:HD12	1.89	0.53
17:5S:3:GLU:OE1	17:5S:3:GLU:N	2.42	0.53
20:6F:112:PRO:O	20:6F:150:HIS:HB3	2.09	0.53
22:6K:108:ARG:NH2	24:6V:282:ARG:O	2.41	0.53
24:6V:97:ARG:H	24:6V:188:THR:CG2	2.20	0.53
24:6V:452:MET:HA	24:6V:530:PHE:HA	1.90	0.53
24:6Y:95:VAL:HG22	24:6Y:124:TYR:HA	1.89	0.53
30:7K:339:ASP:N	30:7K:339:ASP:OD1	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:7K:382:LEU:HD11	30:7K:434:ARG:O	2.09	0.53
31:7M:45:GLU:O	31:7M:48:MET:HG3	2.08	0.53
32:7P:30:ILE:HG13	32:7P:31:GLY:H	1.73	0.53
37:7Y:40:VAL:HA	37:7Y:43:TYR:CE2	2.44	0.53
1:B5:360:GLY:HA3	24:6X:110:ASN:HA	1.90	0.53
2:C7:322:ASP:OD2	24:6U:261:ARG:NH1	2.41	0.53
2:G3:305:CYS:HB3	2:G3:387:ILE:HD11	1.91	0.53
1:G4:86:ARG:NH1	1:G4:89:ASN:OD1	2.42	0.53
2:G5:109:THR:OG1	2:G5:411:GLU:OE2	2.26	0.53
1:J0:113:ILE:HA	1:J0:116:VAL:HG12	1.91	0.53
2:K1:21:TRP:CZ2	2:K1:65:CYS:HB2	2.43	0.53
2:K3:203:MET:O	2:K3:204:LEU:HD23	2.08	0.53
2:K3:384:ILE:HA	2:K3:387:ILE:HD12	1.91	0.53
2:K7:109:THR:OG1	2:K7:411:GLU:OE2	2.22	0.53
1:K8:65:LEU:HD12	1:K8:90:PHE:CE1	2.44	0.53
2:K9:85:GLN:OE1	2:K9:85:GLN:HA	2.08	0.53
1:L6:391:ARG:HH12	2:L7:435:VAL:HA	1.74	0.53
1:M4:309:ARG:H	1:M4:372:THR:HG22	1.74	0.53
2:M7:176:GLN:HE22	2:M7:304:LYS:HE2	1.74	0.53
2:M9:305:CYS:HB3	2:M9:387:ILE:HD11	1.90	0.53
1:N6:77:ARG:NH2	27:7G:166:CYS:HB3	2.23	0.53
1:O2:285:THR:HG23	1:O2:288:GLU:H	1.73	0.53
2:P3:18:ASN:HD21	2:P3:78:VAL:HG22	1.73	0.53
1:Q0:180:VAL:HG23	1:Q0:184:ASN:HD21	1.74	0.53
1:R6:207:LEU:HB3	1:R6:225:LEU:HD22	1.91	0.53
2:R7:71:GLU:HB3	2:R7:98:ASP:OD2	2.08	0.53
1:S6:178:THR:OG1	1:S6:181:GLU:HG3	2.09	0.53
2:S7:79:ARG:O	2:S7:84:ARG:HG2	2.08	0.53
2:T1:265:ILE:HD11	2:T1:435:VAL:HG21	1.91	0.53
1:T4:371:SER:OG	1:T4:372:THR:N	2.41	0.53
2:U7:2:ARG:HA	2:U7:133:GLN:HE21	1.73	0.53
2:U7:88:HIS:CE1	2:U7:89:PRO:HD2	2.42	0.53
1:U8:190:HIS:CD2	1:U8:411:ALA:HA	2.44	0.53
2:V1:47:ASP:N	2:V1:47:ASP:OD1	2.42	0.53
2:V1:417:GLU:HA	2:V1:420:GLU:HG3	1.90	0.53
2:V3:212:ILE:HG23	2:V3:275:ILE:HD12	1.91	0.53
1:V6:3:GLU:HG2	1:V6:127:CYS:SG	2.49	0.53
1:V6:60:VAL:HG21	1:V6:86:ARG:NH2	2.24	0.53
2:V7:91:GLN:HG3	2:X3:283:HIS:HE1	1.74	0.53
2:W5:107:HIS:CD2	2:W5:152:LEU:HB2	2.44	0.53
1:X8:411:ALA:O	1:X8:415:MET:HG2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X9:313:MET:SD	2:X9:380:ASN:ND2	2.82	0.53
2:Y5:76:ASP:HA	2:Y5:79:ARG:HB2	1.90	0.53
1:Z2:262:ARG:HH21	1:Z2:418:LEU:HD13	1.74	0.53
1:Z4:344:TRP:CE3	1:Z4:345:ILE:HG13	2.43	0.53
1:Z6:190:HIS:CD2	1:Z6:411:ALA:HA	2.43	0.53
1:Z8:131:GLN:HE21	1:Z8:250:LEU:HB2	1.72	0.53
2:Z9:336:LYS:O	2:Z9:339:ARG:NH2	2.41	0.53
1:0A:19:LYS:NZ	1:0A:227:HIS:HD2	2.07	0.53
1:0A:250:LEU:HD12	1:0A:250:LEU:H	1.73	0.53
2:0H:20:CYS:SG	2:0H:21:TRP:N	2.82	0.53
2:0L:306:ASP:HB3	2:0L:309:HIS:HD2	1.72	0.53
2:0N:11:GLN:HE22	1:0O:246:LEU:HA	1.74	0.53
2:0P:115:VAL:HG21	2:0P:152:LEU:HD22	1.90	0.53
2:0R:266:HIS:ND1	2:0R:266:HIS:O	2.42	0.53
1:0U:392:LYS:HE3	1:0U:395:LEU:CD2	2.39	0.53
1:0W:77:ARG:HE	1:0W:90:PHE:HE2	1.56	0.53
1:0W:289:LEU:O	1:0W:293:MET:HG3	2.08	0.53
2:0Z:379:SER:OG	2:0Z:380:ASN:N	2.42	0.53
1:1E:1:MET:HE1	1:1E:2:ARG:CG	2.38	0.53
1:1E:128:ASP:OD1	1:1E:129:CYS:N	2.37	0.53
2:1H:353:CYS:SG	2:1H:354:GLY:N	2.82	0.53
2:1X:181:VAL:HG23	2:1X:182:VAL:HG13	1.90	0.53
2:1X:317:LEU:HD11	2:1X:351:PHE:HD1	1.72	0.53
2:1Z:236:SER:O	2:1Z:243:ARG:NH2	2.42	0.53
1:2G:70:PRO:N	1:2G:92:PHE:HZ	2.06	0.53
2:2L:183:GLU:HG3	2:2L:184:PRO:HD3	1.91	0.53
2:2L:399:TYR:O	2:2L:402:ARG:NH1	2.41	0.53
2:2X:245:ASP:HB3	38:8C:216:ARG:HG2	1.90	0.53
2:2X:358:GLN:NE2	38:8C:212:PRO:HB2	2.23	0.53
2:3D:427:ALA:HA	2:3D:430:LYS:HE2	1.89	0.53
2:3F:47:ASP:N	2:3F:47:ASP:OD1	2.41	0.53
2:3F:164:LYS:O	2:3F:166:LYS:NZ	2.42	0.53
2:3H:236:SER:O	2:3H:243:ARG:NH2	2.42	0.53
1:3I:134:GLN:HE21	1:3I:167:PHE:HE2	1.57	0.53
2:3N:210:TYR:HH	1:3O:323:THR:HG1	1.54	0.53
1:3O:172:SER:HB2	1:3O:380:ARG:HH22	1.72	0.53
1:3S:94:GLN:NE2	3:4J:139:SER:O	2.40	0.53
4:4C:23:GLU:OE1	23:6R:7:VAL:HG21	2.09	0.53
5:4L:323:LEU:O	5:4L:327:LYS:HG2	2.08	0.53
7:4R:101:ASP:OD1	7:4R:101:ASP:N	2.41	0.53
10:5B:186:LEU:O	10:5B:189:GLU:HG3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:5B:261:LYS:HB2	10:5B:265:LYS:NZ	2.24	0.53
12:5G:324:GLY:HA3	12:5G:332:ASN:HB3	1.91	0.53
14:5L:97:HIS:HB3	14:5L:99:MET:SD	2.48	0.53
14:5M:97:HIS:HB3	14:5M:99:MET:SD	2.48	0.53
17:5T:3:GLU:N	17:5T:3:GLU:OE1	2.42	0.53
17:5U:3:GLU:N	17:5U:3:GLU:OE1	2.42	0.53
20:6F:200:VAL:HG13	20:6F:230:CYS:HB3	1.90	0.53
24:6T:574:ARG:O	24:6T:578:ILE:HG12	2.09	0.53
24:6V:505:LYS:HB3	24:6V:506:PRO:HD2	1.91	0.53
24:6W:123:TYR:HE2	24:6W:163:PRO:HG3	1.74	0.53
32:7P:106:GLU:N	32:7P:106:GLU:OE1	2.41	0.53
35:7T:168:ILE:O	35:7T:171:GLU:HG3	2.09	0.53
38:8A:36:GLU:OE2	38:8A:37:TYR:N	2.42	0.53
1:A1:337:ASN:HD22	3:4F:69:TYR:HD2	1.56	0.53
2:G7:155:GLU:O	2:G7:158:SER:OG	2.22	0.53
1:G8:335:ASN:O	1:G8:338:SER:OG	2.26	0.53
2:H7:387:ILE:HG12	2:H7:390:ARG:HH22	1.73	0.53
1:I0:248:ALA:HA	1:I0:252:LYS:HD2	1.90	0.53
2:I3:267:PHE:HB2	2:I3:384:ILE:HD12	1.90	0.53
2:I5:111:GLY:O	2:I5:115:VAL:HG12	2.08	0.53
1:J4:135:VAL:HG12	1:J4:137:HIS:HD2	1.73	0.53
2:J7:264:ARG:NH2	2:J7:431:ASP:OD2	2.42	0.53
1:J8:232:VAL:HG11	1:J8:268:VAL:HG21	1.91	0.53
2:K3:213:CYS:HA	2:K3:217:LEU:HB2	1.90	0.53
1:K4:219:THR:HB	2:K5:324:VAL:HG11	1.91	0.53
2:L7:153:LEU:O	2:L7:157:LEU:HG	2.09	0.53
2:M3:392:ASP:OD2	2:M3:425:LEU:HB3	2.09	0.53
1:M6:88:ASP:OD1	37:7Y:86:ASN:ND2	2.39	0.53
1:M8:335:ASN:O	1:M8:338:SER:OG	2.26	0.53
2:N1:11:GLN:OE1	2:N1:15:GLN:NE2	2.41	0.53
1:N6:77:ARG:HD2	27:7G:165:PHE:CZ	2.44	0.53
1:N8:125:GLU:OE2	1:N8:159:TYR:OH	2.26	0.53
2:O1:222:PRO:HD2	1:O2:324:LYS:HE3	1.91	0.53
1:O4:412:GLU:OE2	1:O4:416:ASN:ND2	2.40	0.53
2:P5:41:THR:HB	27:7G:220:MET:O	2.09	0.53
1:P8:177:ASP:O	2:P9:352:LYS:HA	2.09	0.53
2:Q1:270:SER:HB2	2:Q1:302:MET:HB2	1.89	0.53
1:Q2:379:LYS:HG3	1:Q2:419:VAL:HG21	1.91	0.53
2:Q9:155:GLU:HG2	2:Q9:197:HIS:CE1	2.43	0.53
2:R3:9:ILE:HG22	2:R3:146:GLY:HA2	1.90	0.53
1:R6:350:LYS:NZ	1:R6:351:SER:O	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R7:372:GLN:HE22	7:4R:203:THR:HG21	1.74	0.53
1:S4:182:PRO:O	1:S4:186:THR:HG22	2.09	0.53
1:S8:220:PRO:HD2	2:S9:326:LYS:HG2	1.89	0.53
2:S9:5:ILE:HG22	2:S9:64:ARG:HB3	1.91	0.53
1:T8:213:ARG:HH21	1:T8:297:LYS:HE3	1.73	0.53
1:T8:336:LYS:HE3	13:5K:101:LYS:HB3	1.91	0.53
1:U4:273:LEU:H	1:U4:292:GLN:HE22	1.56	0.53
2:U5:276:ILE:HD11	2:U5:371:VAL:HG22	1.91	0.53
1:V6:112:LEU:O	1:V6:115:SER:OG	2.25	0.53
1:V6:199:CYS:SG	1:V6:265:PHE:HD1	2.32	0.53
1:V8:325:GLU:O	1:V8:329:GLN:HB2	2.08	0.53
2:W3:181:VAL:HG23	2:W3:182:VAL:HG13	1.91	0.53
1:W4:135:VAL:HG11	1:W4:152:ILE:HD11	1.90	0.53
2:X3:239:THR:HG23	2:X3:243:ARG:HE	1.72	0.53
2:X5:133:GLN:HB3	2:X5:252:ILE:HG21	1.91	0.53
1:X6:385:PHE:HZ	1:X6:408:PHE:HD1	1.57	0.53
2:X7:358:GLN:NE2	2:X7:359:PRO:O	2.41	0.53
1:Y0:153:SER:HA	1:Y0:195:ASN:ND2	2.24	0.53
1:Y8:192:LEU:HD12	1:Y8:196:ALA:HB3	1.91	0.53
1:Z4:207:LEU:HB3	1:Z4:225:LEU:HD22	1.90	0.53
1:Z6:86:ARG:HG2	1:Z6:88:ASP:H	1.73	0.53
1:0E:12:CYS:SG	1:0E:138:SER:HB3	2.49	0.53
1:0I:51:PHE:HB3	1:0I:59:TYR:HB3	1.91	0.53
2:0J:56:THR:HA	2:0Z:285:GLN:HB2	1.89	0.53
2:0N:274:PRO:HG3	2:0N:286:LEU:HD11	1.90	0.53
2:0N:384:ILE:H	2:0N:384:ILE:HD12	1.73	0.53
2:0P:213:CYS:HA	2:0P:217:LEU:HB2	1.90	0.53
2:0X:213:CYS:HA	2:0X:217:LEU:HB2	1.90	0.53
2:0X:267:PHE:HB2	2:0X:384:ILE:HD12	1.91	0.53
2:0Z:56:THR:CB	2:1P:285:GLN:HB2	2.38	0.53
2:1F:157:LEU:HD22	2:1F:166:LYS:HD3	1.91	0.53
2:1H:12:ALA:HB2	41:1H:501:GTP:C8	2.43	0.53
2:1H:120:ASP:O	2:1H:124:LYS:HG2	2.09	0.53
1:1M:253:LEU:O	1:1M:257:LEU:HG	2.09	0.53
2:1R:317:LEU:HB3	2:1R:319:TYR:HE1	1.73	0.53
2:1R:428:LEU:HG	2:1R:432:PHE:CE2	2.44	0.53
1:1S:5:VAL:HG22	1:1S:133:PHE:HD1	1.73	0.53
1:2A:360:GLY:HA2	10:5A:296:ILE:HD12	1.91	0.53
2:2B:133:GLN:HB3	2:2B:252:ILE:HG21	1.90	0.53
2:2B:381:SER:OG	2:2B:382:THR:N	2.42	0.53
1:2G:186:THR:HG22	1:2G:411:ALA:HB1	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2H:123:ARG:NH2	38:8B:37:TYR:HA	2.07	0.53
2:2H:286:LEU:N	2:2H:286:LEU:HD22	2.23	0.53
2:2P:333:ALA:O	2:2P:337:THR:HG23	2.09	0.53
1:2Q:121:ARG:O	1:2Q:125:GLU:HG2	2.08	0.53
2:3F:306:ASP:HB3	2:3F:309:HIS:HD2	1.72	0.53
2:3H:312:TYR:HB2	2:3H:343:PHE:CD1	2.44	0.53
2:3T:387:ILE:HG12	2:3T:390:ARG:HH22	1.74	0.53
3:4J:184:LEU:CD1	3:4J:223:LYS:HG3	2.38	0.53
6:4O:293:ARG:O	6:4O:297:GLU:HG2	2.09	0.53
6:4O:355:GLU:O	6:4O:358:LYS:HG3	2.08	0.53
14:5M:415:LYS:CE	23:6R:22:MET:CG	2.87	0.53
14:5N:97:HIS:HB3	14:5N:99:MET:SD	2.48	0.53
22:6I:46:SER:OG	22:6I:48:GLU:OE2	2.24	0.53
22:6L:108:ARG:NH2	24:6W:282:ARG:O	2.42	0.53
24:6Y:555:THR:O	24:6Y:559:ILE:HG12	2.09	0.53
1:1:306:ARG:CZ	3:3V:59:LEU:HB3	2.39	0.53
2:8:357:TYR:HB3	24:6W:150:ARG:HH12	1.73	0.53
2:D7:280:LYS:HE3	18:6D:166:HIS:HB3	1.90	0.53
1:G0:218:THR:OG1	24:6V:418:ASP:OD1	2.19	0.53
1:G2:175:VAL:HG22	1:G2:205:GLU:HB2	1.90	0.53
1:G2:211:CYS:HA	1:G2:215:LEU:HB2	1.91	0.53
1:H2:8:GLN:O	1:H2:66:MET:HG3	2.08	0.53
1:H2:91:VAL:HG11	1:H2:116:VAL:HG12	1.91	0.53
1:H2:167:PHE:CE2	1:H2:233:MET:HG2	2.44	0.53
1:H4:364:SER:OG	1:H4:365:ALA:N	2.40	0.53
2:H5:289:ALA:O	2:H5:293:ASN:ND2	2.42	0.53
1:H8:135:VAL:O	1:H8:166:THR:HA	2.09	0.53
2:I3:399:TYR:O	2:I3:402:ARG:NH1	2.42	0.53
2:I9:195:LEU:HD21	2:I9:264:ARG:HH11	1.73	0.53
2:J1:284:GLU:OE1	2:J1:285:GLN:N	2.42	0.53
1:K0:418:LEU:O	1:K0:421:GLU:HG2	2.08	0.53
1:K8:50:TYR:CE2	1:K8:241:ARG:HD3	2.44	0.53
1:L2:175:VAL:HG22	2:L3:329:ASN:HD21	1.74	0.53
2:L3:167:LEU:HD11	2:L3:252:ILE:HG23	1.91	0.53
1:M6:190:HIS:CD2	1:M6:411:ALA:HA	2.44	0.53
1:N0:276:ARG:HH12	30:7L:366:PRO:CB	2.22	0.53
2:N9:76:ASP:HA	2:N9:79:ARG:HD2	1.90	0.53
2:O7:28:HIS:CE1	2:O7:49:PHE:HA	2.44	0.53
2:O7:236:SER:OG	2:O7:243:ARG:NH2	2.42	0.53
2:P3:278:ALA:HA	2:P3:369:ALA:HB2	1.90	0.53
2:P3:317:LEU:HB3	2:P3:319:TYR:HE1	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q0:248:ALA:CB	1:Q0:252:LYS:HE2	2.39	0.53
2:Q3:217:LEU:HB3	2:Q3:219:ILE:HD12	1.89	0.53
1:Q4:11:GLN:HA	1:Q4:72:THR:HG21	1.89	0.53
1:R2:248:ALA:HA	1:R2:252:LYS:HD2	1.91	0.53
2:R3:242:LEU:HD11	2:R3:252:ILE:HG12	1.89	0.53
1:R4:178:THR:OG1	1:R4:181:GLU:HG3	2.08	0.53
1:R4:418:LEU:O	1:R4:421:GLU:HG2	2.08	0.53
1:S4:268:VAL:HG23	1:S4:368:ILE:HG13	1.91	0.53
1:T2:358:PRO:HG2	1:T2:361:LEU:HD12	1.90	0.53
1:T6:56:GLY:CA	26:7F:104:GLN:HE22	2.22	0.53
1:T6:274:THR:OG1	1:T6:279:GLN:HG2	2.08	0.53
2:U1:27:GLU:OE1	2:U1:243:ARG:NH1	2.41	0.53
2:U5:50:ASN:O	2:U5:64:ARG:NH2	2.41	0.53
1:U6:124:ALA:HB1	1:U6:130:LEU:HD11	1.90	0.53
1:V4:49:VAL:HG11	1:V4:241:ARG:HG2	1.90	0.53
2:W1:72:PRO:HD2	1:W2:2:ARG:HH12	1.74	0.53
1:W8:184:ASN:OD1	1:W8:398:TYR:OH	2.26	0.53
1:X4:150:LEU:O	1:X4:153:SER:OG	2.23	0.53
2:X5:165:SER:HA	2:X5:199:ASP:OD2	2.09	0.53
1:Y2:248:ALA:CA	1:Y2:252:LYS:HD3	2.37	0.53
1:Z2:83:GLN:O	1:0I:281:TYR:OH	2.18	0.53
2:Z5:344:VAL:HG21	2:Z5:346:TRP:CE3	2.44	0.53
2:Z9:417:GLU:HA	2:Z9:420:GLU:HG2	1.91	0.53
2:0H:244:PHE:HB2	2:0H:356:ASN:HD21	1.74	0.53
2:0H:306:ASP:HB3	2:0H:309:HIS:HD2	1.73	0.53
2:0J:333:ALA:O	2:0J:337:THR:HG23	2.09	0.53
1:0K:193:VAL:HG11	1:0K:418:LEU:HD11	1.91	0.53
1:0K:391:ARG:HD3	2:0L:346:TRP:CB	2.38	0.53
1:0O:165:LEU:HD22	1:0O:167:PHE:CE1	2.43	0.53
2:0P:217:LEU:HB3	2:0P:219:ILE:HD12	1.91	0.53
1:1C:397:TRP:HA	1:1C:397:TRP:HE3	1.72	0.53
2:1D:236:SER:O	2:1D:243:ARG:NH2	2.42	0.53
1:1E:377:MET:SD	1:1E:380:ARG:NH2	2.80	0.53
1:1K:208:TYR:CE1	1:1K:225:LEU:HD21	2.43	0.53
1:1M:80:PRO:HD3	9:4Z:90:ILE:HG21	1.89	0.53
1:1S:100:ASN:HB3	1:1S:103:LYS:HB2	1.90	0.53
1:1U:39:ASP:OD1	1:1U:40:SER:N	2.42	0.53
1:1W:99:ASN:ND2	2:1X:254:GLU:OE1	2.42	0.53
1:2E:95:THR:HG21	38:8B:83:ARG:CZ	2.33	0.53
2:2F:317:LEU:HB3	2:2F:319:TYR:HE1	1.73	0.53
1:2G:134:GLN:HE21	1:2G:167:PHE:HE2	1.57	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2H:123:ARG:NH2	38:8B:37:TYR:CD2	2.77	0.53
2:2H:183:GLU:HG3	2:2H:184:PRO:HD3	1.91	0.53
2:2H:195:LEU:HD11	2:2H:264:ARG:HH11	1.73	0.53
1:3C:22:GLU:HG2	1:3C:81:TYR:HB2	1.91	0.53
2:3D:9:ILE:HG22	2:3D:146:GLY:HA2	1.90	0.53
2:3F:292:THR:HG22	2:3F:319:TYR:OH	2.09	0.53
1:3G:274:THR:HB	1:3G:282:ARG:HH11	1.73	0.53
2:3H:269:LEU:HD11	2:3H:305:CYS:SG	2.49	0.53
1:3K:49:VAL:HG11	1:3K:241:ARG:HG2	1.91	0.53
2:3N:280:LYS:O	2:3N:283:HIS:HB3	2.09	0.53
1:3S:113:ILE:HA	1:3S:116:VAL:HG12	1.90	0.53
1:3S:309:ARG:NH1	1:3S:339:SER:O	2.41	0.53
2:3T:116:ASP:N	2:3T:116:ASP:OD1	2.42	0.53
3:4F:236:VAL:HG13	3:4F:237:PRO:HD3	1.91	0.53
8:4W:249:ALA:HA	8:4W:252:LYS:HE2	1.91	0.53
10:5A:372:MET:O	10:5A:375:GLU:HG3	2.08	0.53
10:5C:493:GLU:HA	10:5C:496:LYS:HG2	1.91	0.53
12:5F:31:PHE:HB2	12:5G:363:MET:HB3	1.91	0.53
12:5G:273:ARG:O	12:5G:295:ARG:NH2	2.41	0.53
15:5O:29:TYR:N	15:5O:29:TYR:CD1	2.76	0.53
15:5O:337:VAL:O	25:7C:102:ARG:NH1	2.39	0.53
15:5P:128:LEU:O	15:5P:154:SER:OG	2.25	0.53
18:6B:38:GLY:HA2	18:6B:83:HIS:NE2	2.24	0.53
18:6C:38:GLY:HA2	18:6C:83:HIS:NE2	2.24	0.53
19:6E:131:GLU:O	19:6E:135:THR:HG23	2.09	0.53
20:6F:113:ARG:NH2	20:6F:247:TYR:CG	2.77	0.53
24:6U:246:VAL:O	24:6U:250:LEU:HG	2.08	0.53
24:6Y:503:ILE:HG21	24:6Y:525:VAL:HG22	1.89	0.53
29:7I:262:LEU:HB3	30:7K:356:ASN:HB2	1.91	0.53
31:7M:56:HIS:O	31:7M:60:ILE:HG23	2.09	0.53
2:C1:58:ALA:HB3	24:6Z:263:ARG:HB2	1.90	0.53
2:G1:176:GLN:HE22	2:G1:304:LYS:HE2	1.73	0.53
1:G8:235:GLY:HA3	1:G8:366:THR:HG21	1.91	0.53
1:H8:173:PRO:HG3	1:H8:380:ARG:HD2	1.91	0.53
2:I1:278:ALA:HA	2:I1:369:ALA:HB2	1.90	0.53
2:J3:98:ASP:OD1	2:J3:99:ALA:N	2.42	0.53
2:J3:287:SER:OG	2:J3:288:VAL:N	2.39	0.53
2:J9:51:THR:HG23	2:J9:52:PHE:HD2	1.74	0.53
1:K6:309:ARG:H	1:K6:372:THR:HG22	1.73	0.53
2:K7:33:ASP:O	2:K7:60:LYS:NZ	2.42	0.53
2:K7:399:TYR:O	2:K7:402:ARG:NH1	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K8:371:SER:OG	1:K8:372:THR:N	2.42	0.53
2:L1:69:ASP:OD1	2:L1:70:LEU:N	2.41	0.53
2:M5:51:THR:HG21	2:M5:243:ARG:HG2	1.90	0.53
2:M9:389:SER:N	2:M9:429:GLU:OE2	2.42	0.53
2:N3:372:GLN:NE2	30:7L:277:ALA:O	2.42	0.53
2:N9:319:TYR:HB3	2:N9:323:VAL:HG21	1.90	0.53
2:O3:3:GLU:OE2	2:O3:50:ASN:ND2	2.42	0.53
2:O3:177:VAL:CG1	2:O3:207:GLU:HB2	2.39	0.53
1:O8:45:GLU:OE1	1:O8:46:ARG:NE	2.41	0.53
1:Q0:167:PHE:CE2	1:Q0:233:MET:HG3	2.44	0.53
2:R1:313:MET:N	2:R1:380:ASN:O	2.38	0.53
1:R2:222:PHE:CD2	2:R3:247:ALA:HB1	2.44	0.53
2:R7:333:ALA:O	2:R7:337:THR:HG23	2.09	0.53
1:S4:373:ALA:O	1:S4:376:GLU:HG3	2.08	0.53
2:S5:174:SER:OG	2:S5:207:GLU:OE1	2.27	0.53
2:S5:384:ILE:HA	2:S5:387:ILE:HD12	1.91	0.53
2:S7:66:ILE:O	2:S7:66:ILE:HG13	2.09	0.53
2:S7:90:GLU:HG2	2:S7:121:ARG:NH1	2.24	0.53
2:S7:102:ASN:HB3	2:S7:105:ARG:HB3	1.91	0.53
1:T0:67:ASP:OD2	1:T0:72:THR:OG1	2.19	0.53
1:T2:371:SER:OG	1:T2:372:THR:N	2.42	0.53
1:T2:390:ARG:NH2	13:5J:54:ILE:HD11	2.24	0.53
2:T5:265:ILE:HG21	2:T5:313:MET:HE1	1.91	0.53
2:T7:27:GLU:HG3	2:T7:361:THR:HG21	1.90	0.53
2:T7:88:HIS:ND1	2:T7:91:GLN:HG2	2.24	0.53
1:T8:190:HIS:CD2	1:T8:411:ALA:HA	2.45	0.53
1:U2:68:LEU:HB3	1:U2:96:GLY:HA2	1.91	0.53
1:U2:285:THR:HG23	1:U2:288:GLU:H	1.73	0.53
1:V6:198:GLU:HA	1:V6:264:HIS:HB2	1.91	0.53
1:V6:207:LEU:HD11	1:V6:229:ILE:HD11	1.90	0.53
1:V6:342:VAL:HG12	1:V6:348:ASN:ND2	2.20	0.53
2:V7:76:ASP:OD2	1:V8:46:ARG:NH2	2.42	0.53
1:W2:166:THR:HG23	1:W2:199:CYS:HB2	1.90	0.53
2:Y3:322:ASP:OD2	2:Y3:373:ARG:NH2	2.42	0.53
2:Y9:315:CYS:SG	2:Y9:316:CYS:N	2.82	0.53
1:Z0:39:ASP:OD1	1:Z0:40:SER:N	2.41	0.53
1:Z2:165:LEU:HD12	1:Z2:166:THR:H	1.74	0.53
2:Z3:49:PHE:CE2	2:Z3:55:GLU:HG3	2.43	0.53
1:Z8:309:ARG:H	1:Z8:372:THR:HG22	1.74	0.53
2:0H:198:THR:HG21	2:0H:201:ALA:HB2	1.90	0.53
1:0O:87:PRO:HA	1:0O:90:PHE:CD2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0O:371:SER:OG	1:0O:372:THR:N	2.42	0.53
2:0P:60:LYS:NZ	2:1F:282:TYR:O	2.33	0.53
1:0U:345:ILE:O	1:0U:348:ASN:ND2	2.38	0.53
1:1G:309:ARG:NH1	1:1G:339:SER:O	2.42	0.53
2:1L:405:VAL:HG23	2:1L:418:PHE:HE2	1.74	0.53
1:1M:385:PHE:HZ	1:1M:408:PHE:HD1	1.57	0.53
2:1N:175:PRO:HB3	2:1N:390:ARG:NE	2.24	0.53
1:1Q:215:LEU:HB3	1:1Q:217:LEU:HG	1.91	0.53
1:1S:385:PHE:HZ	1:1S:408:PHE:HD2	1.55	0.53
2:2H:387:ILE:HG12	2:2H:390:ARG:HH22	1.74	0.53
1:2I:259:PRO:HG3	1:2I:311:LEU:HD21	1.91	0.53
1:2I:391:ARG:HB2	2:2J:346:TRP:CD1	2.44	0.53
2:2L:277:SER:OG	2:2L:278:ALA:N	2.41	0.53
1:2W:306:ARG:HH21	38:8B:46:ALA:HA	1.74	0.53
1:3A:177:ASP:O	2:3B:352:LYS:HA	2.09	0.53
1:3A:189:VAL:O	1:3A:193:VAL:HG23	2.08	0.53
1:3A:274:THR:OG1	1:3A:279:GLN:NE2	2.41	0.53
1:3G:77:ARG:NH2	3:3X:19:LEU:O	2.41	0.53
2:3P:220:GLU:H	2:3P:220:GLU:CD	2.13	0.53
1:3S:131:GLN:HE21	1:3S:250:LEU:HB2	1.73	0.53
3:3X:236:VAL:HG13	3:3X:237:PRO:HD3	1.91	0.53
6:4O:408:ARG:HH22	29:7J:430:ASN:ND2	2.07	0.53
9:4Z:212:LEU:HB3	9:4Z:216:ARG:NH2	2.24	0.53
10:5B:82:ALA:O	10:5B:85:ARG:HG2	2.09	0.53
12:5F:294:PRO:HD2	12:5F:297:LEU:HD22	1.91	0.53
13:5J:11:GLU:OE1	13:5J:11:GLU:N	2.33	0.53
14:5N:563:ARG:HG2	14:5N:607:LYS:HZ1	1.74	0.53
17:5V:143:ASN:OD1	17:5V:146:ARG:NH2	2.40	0.53
18:6A:38:GLY:HA2	18:6A:83:HIS:NE2	2.24	0.53
18:6D:38:GLY:HA2	18:6D:83:HIS:NE2	2.24	0.53
21:6H:75:ASN:HD22	21:6H:115:TYR:HE2	1.57	0.53
22:6L:138:ASP:N	22:6L:138:ASP:OD2	2.39	0.53
22:6O:63:PRO:HB2	24:6Z:399:ILE:HG13	1.90	0.53
22:6P:201:ARG:HB3	22:6P:237:TYR:HB3	1.91	0.53
24:6U:613:LYS:O	24:6U:617:ASP:HB2	2.09	0.53
24:6W:124:TYR:CE2	24:6W:150:ARG:HG3	2.44	0.53
29:7I:265:VAL:HG22	29:7I:266:MET:H	1.73	0.53
30:7K:336:ILE:HD12	30:7K:353:ASN:HD21	1.74	0.53
31:7N:66:HIS:CD2	31:7N:77:GLY:H	2.27	0.53
33:7Q:139:GLU:HG3	33:7Q:140:TYR:N	2.24	0.53
35:7U:228:ARG:HA	35:7U:231:THR:HG22	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D4:204:ASN:HD21	39:D4:501:GDP:N2	2.02	0.52
2:E3:145:THR:OG1	41:E4:501:GTP:O2G	2.24	0.52
1:F2:276:ARG:HH12	22:6O:65:ARG:NH2	2.06	0.52
1:G2:9:GLY:HA2	1:G2:66:MET:SD	2.49	0.52
1:G2:211:CYS:SG	1:G2:220:PRO:HB3	2.49	0.52
1:H2:334:GLN:NE2	1:H2:348:ASN:H	2.06	0.52
1:H2:335:ASN:O	1:H2:338:SER:OG	2.27	0.52
2:H3:132:LEU:HD23	2:H3:164:LYS:HD3	1.91	0.52
2:H9:183:GLU:HG3	2:H9:184:PRO:HD3	1.92	0.52
2:I3:417:GLU:HA	2:I3:420:GLU:HG2	1.90	0.52
2:I7:116:ASP:OD1	2:I7:117:LEU:N	2.41	0.52
1:J2:249:ASP:O	1:J2:253:LEU:HG	2.09	0.52
1:J4:52:ASN:OD1	1:J4:62:ARG:NH2	2.42	0.52
1:J6:49:VAL:HG11	1:J6:241:ARG:HG2	1.91	0.52
1:K0:94:GLN:CD	28:7X:448:THR:HG21	2.28	0.52
2:K3:381:SER:OG	2:K3:382:THR:N	2.42	0.52
2:K5:244:PHE:HB2	2:K5:356:ASN:HD21	1.73	0.52
2:K7:145:THR:OG1	41:K7:501:GTP:O1B	2.25	0.52
2:L3:84:ARG:NH1	29:7J:345:PRO:CA	2.61	0.52
2:L7:231:ILE:O	2:L7:235:ILE:HG12	2.09	0.52
1:M0:285:THR:HG23	1:M0:288:GLU:H	1.74	0.52
1:M6:177:ASP:O	2:M7:352:LYS:HA	2.08	0.52
2:N3:191:THR:O	2:N3:195:LEU:HG	2.09	0.52
1:O4:177:ASP:O	2:O5:352:LYS:HA	2.08	0.52
2:O5:414:GLU:HG2	2:O5:417:GLU:OE2	2.08	0.52
1:R0:207:LEU:HB3	1:R0:225:LEU:HD22	1.91	0.52
2:R7:250:VAL:HG23	2:R7:254:GLU:HG3	1.91	0.52
1:R8:207:LEU:HB3	1:R8:225:LEU:HD22	1.90	0.52
1:S4:112:LEU:O	1:S4:116:VAL:HG23	2.08	0.52
1:T2:337:ASN:HD21	17:5T:48:THR:N	2.07	0.52
1:T6:88:ASP:N	1:T6:88:ASP:OD1	2.42	0.52
1:U4:177:ASP:O	2:U5:352:LYS:HA	2.10	0.52
2:U9:9:ILE:HG13	2:U9:139:ASN:HB3	1.90	0.52
2:V7:311:LYS:HG2	2:V7:342:GLN:HG3	1.90	0.52
1:W4:139:LEU:HD12	1:W4:170:VAL:HG12	1.90	0.52
2:W7:287:SER:OG	2:W7:288:VAL:N	2.42	0.52
2:W9:70:LEU:HD11	2:W9:110:ILE:CG2	2.39	0.52
1:X0:69:GLU:C	1:X0:92:PHE:HZ	2.12	0.52
2:X3:7:ILE:HG22	2:X3:66:ILE:HB	1.91	0.52
1:X6:248:ALA:HA	1:X6:252:LYS:HD2	1.90	0.52
2:X9:286:LEU:HD12	2:X9:286:LEU:H	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z3:85:GLN:O	2:Z3:88:HIS:NE2	2.42	0.52
1:Z4:131:GLN:HG2	1:Z4:250:LEU:HD13	1.90	0.52
1:Z6:190:HIS:NE2	1:Z6:410:GLU:HG2	2.24	0.52
1:0A:207:LEU:HG	1:0A:225:LEU:HD22	1.91	0.52
2:0B:268:MET:CE	2:0B:380:ASN:HB2	2.38	0.52
1:0C:309:ARG:H	1:0C:372:THR:HG22	1.74	0.52
2:0N:177:VAL:HG21	2:0N:207:GLU:HB2	1.90	0.52
2:0P:12:ALA:HB2	41:0Q:501:GTP:C8	2.44	0.52
2:0R:56:THR:HG23	2:1H:285:GLN:HB2	1.91	0.52
2:1H:313:MET:HB2	2:1H:380:ASN:HB3	1.91	0.52
2:1L:98:ASP:OD1	2:1L:99:ALA:N	2.42	0.52
2:1R:203:MET:HE3	2:1R:267:PHE:HD1	1.72	0.52
1:1U:165:LEU:HD21	1:1U:250:LEU:CD2	2.34	0.52
2:1X:75:VAL:HG11	2:1X:94:SER:HB3	1.90	0.52
1:2A:178:THR:HG23	1:2A:181:GLU:HG3	1.89	0.52
1:2E:405:GLU:HA	1:2E:408:PHE:HD2	1.74	0.52
1:2G:345:ILE:O	1:2G:348:ASN:ND2	2.42	0.52
1:2S:244:GLY:H	1:2S:247:ASN:HD21	1.58	0.52
1:2U:260:PHE:HB2	1:2U:263:LEU:HG	1.90	0.52
1:2W:107:THR:OG1	1:2W:108:GLU:OE1	2.25	0.52
1:2Y:138:SER:OG	1:2Y:139:LEU:N	2.42	0.52
1:3A:70:PRO:N	1:3A:92:PHE:HZ	2.06	0.52
1:3G:334:GLN:HE22	1:3G:348:ASN:H	1.56	0.52
1:3K:7:ILE:HB	1:3K:135:VAL:HG12	1.91	0.52
1:3M:78:SER:OG	14:5M:192:THR:O	2.19	0.52
1:3M:177:ASP:OD2	2:3N:248:LEU:HD11	2.09	0.52
3:3V:236:VAL:HG13	3:3V:237:PRO:HD3	1.91	0.52
3:4B:236:VAL:HG13	3:4B:237:PRO:HD3	1.91	0.52
6:4N:477:VAL:HG23	6:4N:478:LEU:HD22	1.90	0.52
7:4R:183:LEU:O	7:4R:187:THR:HG23	2.09	0.52
18:5X:38:GLY:HA2	18:5X:83:HIS:NE2	2.24	0.52
18:5Y:38:GLY:HA2	18:5Y:83:HIS:NE2	2.24	0.52
21:6H:106:ARG:HE	24:6X:80:ASP:N	2.07	0.52
22:6P:307:ARG:NH2	22:6P:326:PHE:HB2	2.23	0.52
24:6U:41:ARG:HA	24:6U:41:ARG:NE	2.20	0.52
24:6Z:97:ARG:HD2	24:6Z:122:TYR:HE1	1.73	0.52
29:7I:254:MET:CE	30:7K:341:ARG:CD	2.87	0.52
30:7K:41:TRP:O	30:7K:41:TRP:CG	2.62	0.52
1:A5:414:ASN:HD21	3:4J:240:ARG:HE	1.55	0.52
2:G9:97:GLU:HB3	2:G9:105:ARG:HH22	1.73	0.52
2:H1:57:GLY:O	2:I7:285:GLN:NE2	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H1:240:ALA:HA	2:H1:243:ARG:HB2	1.90	0.52
2:H1:331:SER:O	2:H1:335:ILE:HG13	2.08	0.52
2:H5:145:THR:OG1	41:H6:501:GTP:O1B	2.26	0.52
1:H8:186:THR:HG22	1:H8:411:ALA:HB1	1.91	0.52
2:H9:179:THR:O	1:I0:350:LYS:HD2	2.09	0.52
2:I3:387:ILE:HG12	2:I3:390:ARG:HH22	1.73	0.52
2:I7:370:LYS:HZ3	5:4L:263:LEU:HB2	1.75	0.52
1:J2:391:ARG:HH12	2:J3:435:VAL:HA	1.74	0.52
2:J5:282:TYR:HE1	5:4M:159:ILE:CD1	2.20	0.52
1:J6:135:VAL:HG12	1:J6:137:HIS:HD2	1.74	0.52
2:J9:175:PRO:HB3	2:J9:390:ARG:HE	1.74	0.52
2:K5:206:ASN:OD1	41:K6:501:GTP:N2	2.40	0.52
2:K5:219:ILE:HD12	29:7I:14:LEU:HD11	1.90	0.52
2:L7:138:PHE:HZ	2:L7:235:ILE:HG21	1.75	0.52
2:L7:228:ASN:HA	2:L7:231:ILE:HD12	1.90	0.52
1:M4:380:ARG:HA	1:M4:383:GLU:OE2	2.09	0.52
2:M5:183:GLU:HG3	2:M5:184:PRO:HD3	1.91	0.52
2:M9:278:ALA:HA	2:M9:369:ALA:HB2	1.90	0.52
2:N5:18:ASN:ND2	2:N5:78:VAL:HG22	2.23	0.52
2:N5:217:LEU:HD13	2:N5:367:ASP:OD2	2.09	0.52
2:N9:27:GLU:CD	2:N9:243:ARG:HH12	2.13	0.52
2:O3:129:CYS:SG	2:O3:130:THR:N	2.81	0.52
2:O3:225:THR:HG21	19:6E:90:THR:OG1	2.10	0.52
2:P3:100:ALA:HA	1:P4:252:LYS:HE2	1.91	0.52
2:P3:145:THR:OG1	41:P4:501:GTP:O1B	2.27	0.52
1:Q2:198:GLU:HA	1:Q2:264:HIS:HB2	1.91	0.52
1:R2:67:ASP:OD2	1:R2:72:THR:OG1	2.26	0.52
1:S4:210:ILE:O	1:S4:214:THR:OG1	2.27	0.52
1:S6:343:GLU:HG3	1:S6:344:TRP:N	2.24	0.52
2:S7:294:ALA:HA	2:S7:297:GLU:HG2	1.92	0.52
2:S7:409:VAL:HA	2:S7:413:MET:O	2.09	0.52
1:U6:11:GLN:HE21	1:U6:15:GLN:HE22	1.57	0.52
2:U9:224:TYR:O	2:U9:228:ASN:ND2	2.39	0.52
2:U9:312:TYR:HB2	2:U9:343:PHE:CD1	2.44	0.52
2:V1:207:GLU:HB3	2:V1:304:LYS:HE3	1.92	0.52
1:V2:173:PRO:HD2	1:V2:380:ARG:NE	2.24	0.52
1:V6:279:GLN:HA	1:V6:282:ARG:HG2	1.90	0.52
1:W0:105:HIS:CD2	1:W0:150:LEU:HB2	2.43	0.52
2:W9:181:VAL:HG23	2:W9:182:VAL:HG13	1.91	0.52
2:X3:327:ASP:N	2:X3:327:ASP:OD1	2.40	0.52
1:X4:344:TRP:CE3	1:X4:345:ILE:HG13	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X8:139:LEU:HD12	1:X8:170:VAL:HG12	1.90	0.52
1:Y0:125:GLU:OE2	1:Y0:159:TYR:OH	2.26	0.52
1:Y2:99:ASN:HD21	2:Y3:352:LYS:HE2	1.74	0.52
2:Y5:191:THR:HA	2:Y5:194:LEU:HG	1.91	0.52
1:Y6:2:ARG:HE	1:Y6:240:LEU:HD22	1.75	0.52
1:Y8:342:VAL:HB	1:Y8:344:TRP:CZ3	2.44	0.52
2:Z5:210:TYR:HE1	2:Z5:227:LEU:HD11	1.74	0.52
1:0A:204:ASN:ND2	39:0A:503:GDP:HN22	2.07	0.52
1:0G:101:TRP:HB2	1:0G:184:ASN:OD1	2.09	0.52
1:0G:358:PRO:HG2	1:0G:361:LEU:HD13	1.92	0.52
2:0H:383:ALA:O	2:0H:387:ILE:HG12	2.09	0.52
1:0K:388:MET:CE	1:0K:388:MET:CA	2.86	0.52
1:0U:179:VAL:HB	2:0V:258:ASN:HD22	1.74	0.52
2:0V:30:ILE:HG12	2:0V:36:MET:HG2	1.90	0.52
2:1B:90:GLU:HG2	2:1B:121:ARG:HH22	1.74	0.52
2:1B:183:GLU:HG3	2:1B:184:PRO:HD3	1.92	0.52
2:1H:227:LEU:O	2:1H:231:ILE:HG12	2.09	0.52
1:1O:107:THR:OG1	1:1O:401:GLU:OE2	2.23	0.52
2:1V:63:PRO:HB2	2:1V:65:CYS:SG	2.49	0.52
2:1X:287:SER:OG	2:1X:288:VAL:N	2.43	0.52
2:2B:161:TYR:HD1	38:8A:80:TYR:HB3	1.72	0.52
2:2F:227:LEU:O	2:2F:231:ILE:HG12	2.09	0.52
1:2M:5:VAL:HG12	1:2M:62:ARG:HD3	1.91	0.52
2:2T:129:CYS:SG	2:2T:130:THR:N	2.83	0.52
2:2T:333:ALA:O	2:2T:337:THR:HG23	2.09	0.52
2:2V:381:SER:OG	2:2V:382:THR:N	2.43	0.52
2:2X:183:GLU:HG3	2:2X:184:PRO:HD3	1.90	0.52
1:2Y:34:GLY:HA3	1:2Y:58:ARG:NH1	2.24	0.52
1:2Y:183:TYR:HB3	1:2Y:398:TYR:HE2	1.74	0.52
2:2Z:26:LEU:HD22	2:2Z:363:VAL:HG12	1.92	0.52
1:3G:350:LYS:NZ	1:3G:351:SER:O	2.42	0.52
1:3G:382:SER:HB2	1:3G:415:MET:HG2	1.91	0.52
1:3I:211:CYS:HB2	1:3I:217:LEU:HD12	1.92	0.52
2:3L:238:LEU:HD22	2:3L:378:ILE:HD11	1.90	0.52
1:3S:362:LYS:CE	38:8D:166:GLU:CB	2.85	0.52
3:3Z:236:VAL:HG13	3:3Z:237:PRO:HD3	1.91	0.52
5:4M:15:MET:O	5:4M:19:GLU:HG2	2.09	0.52
6:4P:158:ILE:HD11	29:7J:233:LYS:HD3	1.91	0.52
10:5A:447:ARG:NE	10:5A:447:ARG:HA	2.24	0.52
10:5C:494:LEU:HD12	10:5C:494:LEU:O	2.09	0.52
15:5P:22:TRP:CD1	15:5P:22:TRP:N	2.76	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:5Z:38:GLY:HA2	18:5Z:83:HIS:NE2	2.24	0.52
22:6L:329:LEU:HD13	22:6L:346:PHE:HZ	1.74	0.52
24:6T:541:THR:HG22	24:6T:614:ARG:HH22	1.74	0.52
24:6U:481:LEU:HD23	24:6U:481:LEU:C	2.30	0.52
24:6W:482:ILE:HD13	24:6W:498:LEU:HB3	1.91	0.52
24:6X:274:ARG:NE	24:6X:372:ASP:OD2	2.37	0.52
30:7K:41:TRP:O	30:7K:41:TRP:CD2	2.62	0.52
36:7W:98:VAL:HA	36:7W:101:VAL:HG12	1.90	0.52
1:G4:391:ARG:NH2	2:G5:435:VAL:HA	2.24	0.52
2:G9:420:GLU:HA	2:G9:423:GLU:HG3	1.91	0.52
1:H6:33:THR:O	1:H6:58:ARG:NH2	2.43	0.52
1:I0:135:VAL:HG21	1:I0:152:ILE:HD11	1.92	0.52
2:I7:191:THR:HA	2:I7:194:LEU:HB2	1.90	0.52
2:I9:276:ILE:HG23	2:I9:280:LYS:HB2	1.91	0.52
2:J3:379:SER:OG	2:J3:380:ASN:N	2.41	0.52
1:J6:176:SER:HB3	2:J7:349:THR:OG1	2.09	0.52
2:J7:121:ARG:C	2:J7:121:ARG:CD	2.77	0.52
1:K0:379:LYS:O	1:K0:383:GLU:HG2	2.09	0.52
2:K3:372:GLN:HE22	6:4O:141:VAL:HA	1.73	0.52
2:K5:167:LEU:HD11	2:K5:252:ILE:HG23	1.89	0.52
1:L2:113:ILE:HD13	1:L2:150:LEU:HD22	1.91	0.52
1:L4:56:GLY:HA2	29:7J:331:TYR:CB	2.27	0.52
1:M4:135:VAL:HG21	1:M4:152:ILE:HD11	1.92	0.52
1:M8:219:THR:HB	2:M9:324:VAL:HG11	1.89	0.52
1:O0:405:GLU:HA	1:O0:408:PHE:HD2	1.75	0.52
2:O5:287:SER:N	2:O5:290:GLU:OE2	2.42	0.52
2:P3:8:HIS:CD2	2:P3:138:PHE:HD2	2.27	0.52
2:P3:105:ARG:O	2:P3:109:THR:OG1	2.23	0.52
1:Q0:114:ASP:OD2	1:Q0:115:SER:N	2.43	0.52
1:Q0:219:THR:O	1:Q0:219:THR:OG1	2.28	0.52
1:R0:172:SER:OG	1:R0:205:GLU:OE1	2.13	0.52
1:R2:180:VAL:HG23	1:R2:184:ASN:HD21	1.74	0.52
1:R4:325:GLU:HA	1:R4:328:GLU:HG2	1.91	0.52
2:S9:166:LYS:N	2:S9:199:ASP:OD2	2.42	0.52
2:T1:14:ILE:HD11	2:T1:69:ASP:HB2	1.90	0.52
2:T1:339:ARG:HH21	2:T1:342:GLN:HB3	1.74	0.52
2:U3:414:GLU:HG2	2:U3:416:GLY:H	1.75	0.52
2:U7:406:HIS:HA	2:U7:409:VAL:HG22	1.90	0.52
2:V9:88:HIS:CG	2:X5:283:HIS:HB2	2.44	0.52
1:W2:273:LEU:O	1:W2:292:GLN:NE2	2.41	0.52
2:W9:88:HIS:CA	2:Y5:283:HIS:CE1	2.84	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X2:290:THR:HB	1:X2:329:GLN:HE21	1.74	0.52
1:X4:113:ILE:HG21	1:X4:150:LEU:HD22	1.91	0.52
1:X6:240:LEU:HD11	1:X6:250:LEU:HD11	1.90	0.52
1:X6:273:LEU:H	1:X6:292:GLN:HE22	1.57	0.52
2:X9:21:TRP:CZ2	2:X9:65:CYS:HB2	2.44	0.52
2:Y9:8:HIS:CD2	2:Y9:138:PHE:HD2	2.27	0.52
1:Z0:86:ARG:HH21	1:0G:282:ARG:HA	1.73	0.52
1:Z0:105:HIS:NE2	1:Z0:150:LEU:HD13	2.24	0.52
1:Z4:91:VAL:HG21	1:Z4:116:VAL:HG22	1.89	0.52
1:Z8:237:THR:HG23	1:Z8:241:ARG:HH21	1.74	0.52
1:0A:51:PHE:HB3	1:0A:59:TYR:HB3	1.91	0.52
1:0E:173:PRO:HG2	1:0E:174:LYS:HZ3	1.74	0.52
1:0I:237:THR:HG23	1:0I:241:ARG:HH21	1.75	0.52
1:0O:388:MET:HE1	2:0P:348:PRO:HD3	1.91	0.52
1:0S:193:VAL:HG12	1:0S:265:PHE:HZ	1.74	0.52
2:0X:322:ASP:HB3	2:0X:373:ARG:HH21	1.73	0.52
2:0Z:264:ARG:NH2	2:0Z:431:ASP:OD2	2.43	0.52
1:1E:404:ASP:HB3	1:1E:406:MET:SD	2.49	0.52
1:1K:97:ALA:HA	1:1K:103:LYS:HE3	1.91	0.52
2:1R:120:ASP:O	2:1R:123:ARG:HB3	2.09	0.52
1:1W:290:THR:HA	1:1W:293:MET:HB2	1.90	0.52
2:1Z:195:LEU:HD11	2:1Z:264:ARG:HH11	1.74	0.52
1:2A:32:PRO:O	1:2A:83:GLN:NE2	2.43	0.52
1:2C:113:ILE:HG13	1:2C:150:LEU:HD23	1.90	0.52
2:2D:282:TYR:HH	10:5A:380:ARG:HB3	1.69	0.52
2:2F:392:ASP:OD2	2:2F:422:ARG:NH1	2.42	0.52
1:2I:5:VAL:HG22	1:2I:133:PHE:HD1	1.74	0.52
2:2J:9:ILE:HD11	2:2J:153:LEU:HD23	1.91	0.52
2:2J:236:SER:O	2:2J:243:ARG:NH2	2.43	0.52
2:2L:301:MET:HE1	2:2L:307:PRO:HD3	1.92	0.52
1:2M:185:ALA:O	1:2M:189:VAL:HG12	2.09	0.52
2:2V:129:CYS:SG	2:2V:130:THR:N	2.83	0.52
2:2V:297:GLU:CD	38:8B:74:ILE:H	2.13	0.52
1:2W:371:SER:OG	1:2W:372:THR:N	2.42	0.52
2:2X:290:GLU:OE1	2:2X:290:GLU:N	2.32	0.52
1:2Y:263:LEU:HD13	1:2Y:422:TYR:CE1	2.43	0.52
2:3B:264:ARG:NH2	2:3B:431:ASP:OD2	2.41	0.52
1:3C:245:GLN:NE2	38:8D:198:THR:HG21	2.24	0.52
2:3D:27:GLU:OE1	2:3D:243:ARG:NH1	2.42	0.52
2:3D:109:THR:OG1	2:3D:411:GLU:OE2	2.21	0.52
1:3I:77:ARG:CZ	3:3Z:19:LEU:HA	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3R:183:GLU:CD	2:3R:184:PRO:HD3	2.30	0.52
3:4D:236:VAL:HG13	3:4D:237:PRO:HD3	1.91	0.52
3:4H:236:VAL:HG13	3:4H:237:PRO:HD3	1.91	0.52
5:4L:326:GLU:O	5:4L:330:GLU:HG3	2.09	0.52
5:4M:50:VAL:O	5:4M:54:VAL:HG23	2.09	0.52
8:4W:176:GLU:O	8:4W:179:GLU:HG3	2.10	0.52
14:5L:415:LYS:HG2	23:6Q:23:ILE:HD11	1.92	0.52
14:5N:507:LEU:HD11	14:5N:525:LEU:HD12	1.91	0.52
15:5O:73:LEU:CD2	15:5O:73:LEU:N	2.72	0.52
17:5S:183:ARG:HA	17:5S:186:LYS:CE	2.40	0.52
22:6J:274:GLU:O	22:6J:277:SER:OG	2.20	0.52
22:6L:51:ILE:HA	22:6L:54:ARG:HD3	1.91	0.52
22:6L:137:GLU:HA	22:6L:140:VAL:HG12	1.91	0.52
24:6V:476:MET:HG2	24:6V:477:ASP:OD2	2.10	0.52
24:6Z:282:ARG:NH1	24:6Z:289:ARG:HD3	2.24	0.52
27:7G:199:ASN:HD22	27:7G:213:TRP:HE1	1.56	0.52
38:8B:95:LYS:HA	38:8B:100:SER:HB2	1.91	0.52
38:8C:92:GLU:CD	38:8C:94:LYS:HE3	2.29	0.52
1:5:217:LEU:HD11	26:7D:136:PHE:HB3	1.91	0.52
2:A2:264:ARG:NH2	4:4G:118:ILE:HD13	2.24	0.52
1:A3:33:THR:HG21	18:6C:101:LYS:HE2	1.91	0.52
1:A3:44:LEU:CD1	18:6C:36:ASN:HB3	2.39	0.52
2:A8:145:THR:OG1	41:A9:501:GTP:O1B	2.27	0.52
2:E7:282:TYR:CD1	22:6L:82:LEU:HD21	2.44	0.52
2:G5:145:THR:OG1	41:G5:501:GTP:O1B	2.27	0.52
2:G7:287:SER:OG	2:G7:290:GLU:OE1	2.22	0.52
2:G7:379:SER:OG	2:G7:380:ASN:N	2.42	0.52
1:H4:11:GLN:N	39:H4:501:GDP:O2B	2.38	0.52
1:H4:135:VAL:HG12	1:H4:137:HIS:HD2	1.74	0.52
1:H6:178:THR:OG1	1:H6:181:GLU:HG3	2.09	0.52
1:I2:113:ILE:HA	1:I2:116:VAL:HG22	1.90	0.52
2:I7:345:ASP:N	2:I7:345:ASP:OD2	2.43	0.52
1:I8:68:LEU:HD11	1:I8:147:MET:HE1	1.92	0.52
1:J0:39:ASP:OD2	28:7H:410:HIS:NE2	2.41	0.52
2:J5:69:ASP:OD1	2:J5:70:LEU:N	2.43	0.52
1:J8:404:ASP:HB3	1:J8:406:MET:SD	2.50	0.52
2:K3:109:THR:OG1	2:K3:411:GLU:OE2	2.24	0.52
2:K3:277:SER:OG	2:K3:278:ALA:N	2.41	0.52
2:L5:187:SER:O	2:L5:191:THR:HG23	2.09	0.52
2:L9:9:ILE:HG22	2:L9:146:GLY:HA2	1.91	0.52
1:M0:243:PRO:HG2	29:7I:109:THR:HG21	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M5:250:VAL:HB	2:M5:254:GLU:HG3	1.90	0.52
1:N2:274:THR:HB	1:N2:282:ARG:HH11	1.73	0.52
1:N6:175:VAL:HG12	1:N6:205:GLU:HG2	1.92	0.52
1:N8:134:GLN:HE21	1:N8:167:PHE:HE2	1.58	0.52
2:N9:202:VAL:HG22	2:N9:268:MET:HB2	1.92	0.52
2:O1:259:LEU:HD11	2:O1:316:CYS:HB2	1.92	0.52
2:O3:214:ARG:NE	37:7Y:84:ARG:HH22	2.06	0.52
2:O5:285:GLN:HE22	19:6E:10:SER:HB3	1.75	0.52
1:O8:190:HIS:HD2	1:O8:411:ALA:HA	1.75	0.52
1:P4:248:ALA:HA	1:P4:252:LYS:HD2	1.91	0.52
1:P4:309:ARG:H	1:P4:372:THR:HG22	1.75	0.52
2:R9:414:GLU:HG2	2:R9:417:GLU:OE1	2.10	0.52
1:S0:211:CYS:SG	1:S0:217:LEU:HB2	2.49	0.52
2:T1:58:ALA:HB3	24:6W:86:PRO:HB3	1.91	0.52
2:T1:203:MET:HB2	2:T1:303:VAL:HG21	1.91	0.52
2:T1:266:HIS:ND1	2:T1:266:HIS:O	2.43	0.52
1:T2:172:SER:HB3	1:T2:175:VAL:HG12	1.90	0.52
1:T2:175:VAL:O	1:T2:175:VAL:HG13	2.10	0.52
1:T8:334:GLN:HE22	1:T8:348:ASN:H	1.57	0.52
1:V6:2:ARG:CZ	1:V6:131:GLN:HG3	2.40	0.52
1:V6:311:LEU:HD11	1:V6:372:THR:HB	1.91	0.52
2:W1:399:TYR:OH	2:W1:415:GLU:OE2	2.20	0.52
2:W7:331:SER:O	2:W7:334:THR:OG1	2.17	0.52
2:W9:287:SER:OG	2:W9:288:VAL:N	2.43	0.52
2:X3:258:ASN:CB	2:X3:352:LYS:HG3	2.40	0.52
2:X3:281:ALA:HB3	8:4V:427:VAL:HG21	1.90	0.52
2:X9:286:LEU:O	2:X9:373:ARG:NH1	2.39	0.52
1:Y0:67:ASP:N	1:Y0:67:ASP:OD1	2.41	0.52
1:Y0:150:LEU:O	1:Y0:153:SER:OG	2.22	0.52
1:Y2:263:LEU:HD22	1:Y2:422:TYR:HE1	1.74	0.52
2:Y3:90:GLU:H	2:Z9:283:HIS:HE1	1.56	0.52
2:Y9:297:GLU:HG2	2:Y9:299:ALA:H	1.75	0.52
1:Z0:116:VAL:HA	1:Z0:119:VAL:HG12	1.91	0.52
1:Z0:117:LEU:HD11	1:Z0:154:LYS:HD3	1.91	0.52
2:Z1:216:SER:OG	2:Z1:217:LEU:N	2.42	0.52
2:Z3:9:ILE:HG22	2:Z3:146:GLY:HA2	1.91	0.52
1:Z4:260:PHE:HB2	1:Z4:263:LEU:HG	1.92	0.52
1:Z4:294:TRP:CD1	1:Z4:333:VAL:HG21	2.45	0.52
2:Z5:181:VAL:HG22	1:Z6:256:ASN:HD22	1.73	0.52
2:Z7:259:LEU:HD21	2:Z7:316:CYS:HB2	1.92	0.52
2:Z9:69:ASP:OD1	2:Z9:70:LEU:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z9:313:MET:HE2	2:Z9:380:ASN:HD22	1.73	0.52
1:0A:152:ILE:HD13	1:0A:155:ILE:HD11	1.91	0.52
1:0C:116:VAL:HA	1:0C:119:VAL:HG22	1.91	0.52
1:0G:391:ARG:HD3	2:0H:346:TRP:CE2	2.45	0.52
2:0N:407:TRP:NE1	1:0O:258:ILE:O	2.35	0.52
1:0O:204:ASN:HD21	39:0O:502:GDP:HN22	1.58	0.52
1:0S:317:PHE:HB2	1:0S:353:VAL:HG23	1.92	0.52
1:0U:134:GLN:HE21	1:0U:167:PHE:HE2	1.56	0.52
1:0U:182:PRO:CG	1:0U:388:MET:HE3	2.40	0.52
1:0Y:180:VAL:HG23	1:0Y:184:ASN:ND2	2.23	0.52
1:1A:52:ASN:OD1	1:1A:62:ARG:NH2	2.42	0.52
2:1B:7:ILE:HD11	2:1B:137:VAL:HG12	1.90	0.52
1:1C:345:ILE:O	1:1C:348:ASN:ND2	2.42	0.52
2:1H:254:GLU:HA	2:1H:257:THR:HG22	1.91	0.52
1:1Q:140:GLY:O	1:1Q:184:ASN:ND2	2.42	0.52
1:1Q:396:HIS:H	1:1Q:396:HIS:HD2	1.57	0.52
1:1W:138:SER:OG	1:1W:139:LEU:N	2.42	0.52
2:2F:290:GLU:HA	2:2F:293:ASN:HD22	1.74	0.52
2:2J:90:GLU:HG3	2:2J:121:ARG:NH1	2.24	0.52
2:2J:392:ASP:OD2	2:2J:422:ARG:NH1	2.42	0.52
1:2K:207:LEU:HB3	1:2K:225:LEU:HD22	1.91	0.52
1:2M:167:PHE:CE2	1:2M:233:MET:HG2	2.44	0.52
1:2M:200:MET:HE3	1:2M:268:VAL:HG22	1.90	0.52
2:2R:287:SER:OG	2:2R:288:VAL:N	2.43	0.52
2:3F:56:THR:OG1	3:3V:33:GLY:O	2.27	0.52
1:3G:3:GLU:HB2	1:3G:130:LEU:HA	1.92	0.52
1:3G:90:PHE:HB2	3:3X:19:LEU:HD13	1.89	0.52
2:3H:199:ASP:OD1	2:3H:256:GLN:HG2	2.09	0.52
1:3K:248:ALA:HA	1:3K:252:LYS:HD2	1.92	0.52
1:3K:282:ARG:NH2	1:3K:288:GLU:OE1	2.42	0.52
1:3M:382:SER:HB2	1:3M:415:MET:HG2	1.91	0.52
1:3O:70:PRO:HG2	2:3P:2:ARG:HH11	1.75	0.52
2:3T:183:GLU:HB3	2:3T:184:PRO:HD3	1.91	0.52
3:3X:252:LYS:HD3	3:3X:270:LEU:HD21	1.92	0.52
3:4F:252:LYS:HD3	3:4F:270:LEU:HD21	1.92	0.52
3:4H:161:PHE:HB3	3:4H:180:VAL:HG23	1.91	0.52
5:4L:466:LEU:N	5:4L:466:LEU:HD23	2.25	0.52
5:4M:76:LEU:CD2	15:5P:288:VAL:HG21	2.15	0.52
7:4S:9:PRO:HD2	7:4S:12:ASP:HB2	1.91	0.52
7:4U:195:VAL:O	7:4U:199:VAL:HG13	2.09	0.52
14:5L:251:GLY:O	14:5L:267:THR:OG1	2.28	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:5L:302:MET:SD	14:5L:307:PHE:HE1	2.33	0.52
14:5M:251:GLY:O	14:5M:267:THR:OG1	2.27	0.52
15:5P:14:LEU:CD2	15:5P:14:LEU:N	2.73	0.52
21:6G:69:TYR:O	21:6G:73:VAL:HG23	2.08	0.52
22:6L:274:GLU:O	22:6L:277:SER:OG	2.22	0.52
24:6V:626:ILE:O	24:6V:630:LEU:HG	2.10	0.52
24:6W:556:ASP:OD1	24:6W:557:VAL:N	2.42	0.52
28:7H:398:ASP:O	28:7H:401:THR:HG22	2.08	0.52
30:7K:382:LEU:HB3	30:7K:434:ARG:HH21	1.74	0.52
1:3:423:GLN:HE22	3:3X:107:ALA:HB1	1.74	0.52
2:6:42:ILE:HD13	24:6V:93:ARG:HE	1.74	0.52
1:A1:340:TYR:CD1	3:4F:104:PRO:HD3	2.44	0.52
1:A3:40:SER:HA	26:7F:122:VAL:HB	1.91	0.52
1:A9:80:PRO:HD2	24:6U:221:ARG:HH12	1.72	0.52
1:B1:279:GLN:NE2	24:6V:108:GLU:O	2.42	0.52
1:G0:78:SER:O	24:6V:498:LEU:HD12	2.09	0.52
2:G9:104:ALA:H	2:G9:408:TYR:HE1	1.56	0.52
2:G9:114:ILE:HB	2:G9:149:LEU:HD11	1.91	0.52
2:G9:259:LEU:HB3	2:G9:268:MET:HE2	1.91	0.52
2:H1:278:ALA:HA	2:H1:369:ALA:HB2	1.90	0.52
2:H3:88:HIS:CD2	2:H3:121:ARG:HH21	2.12	0.52
2:H9:278:ALA:HA	2:H9:369:ALA:HB2	1.92	0.52
1:I8:113:ILE:HG21	1:I8:150:LEU:HD22	1.91	0.52
2:J1:98:ASP:OD1	2:J1:99:ALA:N	2.43	0.52
2:J3:117:LEU:HA	2:J3:120:ASP:OD1	2.09	0.52
1:J6:72:THR:O	1:J6:76:VAL:HG23	2.10	0.52
1:J6:204:ASN:OD1	39:J6:502:GDP:O2'	2.27	0.52
2:J7:56:THR:HG23	2:J7:60:LYS:HB3	1.92	0.52
1:K4:69:GLU:C	1:K4:92:PHE:HZ	2.13	0.52
2:K5:53:PHE:HB3	2:K5:61:HIS:HB3	1.91	0.52
2:K5:242:LEU:HD11	2:K5:252:ILE:HG12	1.90	0.52
2:L1:203:MET:O	2:L1:204:LEU:HD23	2.09	0.52
1:L2:248:ALA:HA	1:L2:252:LYS:HD2	1.91	0.52
2:L5:109:THR:OG1	2:L5:411:GLU:OE2	2.21	0.52
2:L9:331:SER:O	2:L9:334:THR:OG1	2.22	0.52
1:M2:78:SER:HA	15:5O:48:LYS:CG	2.38	0.52
2:M3:116:ASP:N	2:M3:116:ASP:OD1	2.41	0.52
1:M4:52:ASN:OD1	1:M4:62:ARG:NH2	2.43	0.52
1:N6:125:GLU:OE2	1:N6:159:TYR:OH	2.28	0.52
2:O3:14:ILE:HD11	2:O3:74:VAL:HG13	1.91	0.52
2:O5:364:PRO:HB2	32:7P:127:ASP:OD2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P4:170:VAL:HG11	1:P4:377:MET:HE2	1.91	0.52
2:P7:10:GLY:O	2:P7:13:GLY:N	2.43	0.52
1:Q2:392:LYS:HD2	1:Q2:395:LEU:HD22	1.92	0.52
2:Q5:170:THR:HG21	2:Q5:194:LEU:HD11	1.92	0.52
1:R8:36:TYR:HD2	21:6H:163:THR:HG21	1.74	0.52
1:S8:125:GLU:OE1	3:3Z:65:SER:OG	2.20	0.52
1:T0:213:ARG:HH22	13:5I:117:ASN:HD21	1.57	0.52
1:T0:397:TRP:NE1	2:T1:256:GLN:O	2.42	0.52
2:T1:90:GLU:HG2	2:T1:121:ARG:NH1	2.25	0.52
1:T8:2:ARG:HB3	1:T8:131:GLN:HB2	1.91	0.52
1:U2:49:VAL:HG11	1:U2:241:ARG:HG2	1.91	0.52
1:V2:33:THR:O	1:V2:58:ARG:NH2	2.42	0.52
2:V7:242:LEU:HD11	2:V7:252:ILE:HG12	1.92	0.52
1:W6:183:TYR:HB3	1:W6:398:TYR:HE2	1.74	0.52
1:X2:50:TYR:OH	1:X2:237:THR:OG1	2.06	0.52
2:X9:166:LYS:N	2:X9:199:ASP:OD2	2.43	0.52
2:Y3:100:ALA:HA	1:Y4:252:LYS:HE3	1.91	0.52
1:Y6:153:SER:HA	1:Y6:195:ASN:OD1	2.09	0.52
1:Y8:91:VAL:HG11	1:Y8:119:VAL:HG11	1.90	0.52
1:Y8:210:ILE:O	1:Y8:214:THR:OG1	2.22	0.52
1:Y8:404:ASP:HB2	1:Y8:406:MET:SD	2.48	0.52
2:Y9:75:VAL:HG11	2:Y9:94:SER:HB2	1.91	0.52
1:Z0:8:GLN:HG2	1:Z0:17:GLY:HA3	1.91	0.52
1:Z2:190:HIS:CD2	1:Z2:414:ASN:HB2	2.43	0.52
1:0A:190:HIS:NE2	1:0A:414:ASN:OD1	2.42	0.52
2:0J:322:ASP:HB2	2:0J:373:ARG:HH21	1.74	0.52
1:0M:260:PHE:HB2	1:0M:263:LEU:HG	1.91	0.52
2:0N:90:GLU:HB2	2:1D:283:HIS:CE1	2.43	0.52
1:0S:51:PHE:HB3	1:0S:59:TYR:HB3	1.92	0.52
1:0U:393:ALA:C	1:0U:395:LEU:N	2.63	0.52
2:0X:119:LEU:HD11	2:0X:156:ARG:HD3	1.90	0.52
2:1D:317:LEU:HB3	2:1D:319:TYR:CE1	2.45	0.52
2:1L:9:ILE:HD13	2:1L:150:GLY:HA2	1.90	0.52
1:1M:35:THR:OG1	1:1M:37:HIS:NE2	2.42	0.52
2:1T:90:GLU:O	2:1T:121:ARG:NH1	2.32	0.52
2:2B:177:VAL:HG13	1:2C:327:ASP:OD1	2.09	0.52
1:2C:193:VAL:HG23	1:2C:194:GLU:OE2	2.08	0.52
2:2F:305:CYS:SG	2:2F:383:ALA:HB1	2.49	0.52
2:2H:66:ILE:HG13	2:2H:91:GLN:O	2.10	0.52
1:2I:177:ASP:OD1	1:2I:178:THR:HG23	2.09	0.52
2:2J:121:ARG:HE	2:2J:124:LYS:HD3	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2J:176:GLN:HG2	2:2J:177:VAL:HG23	1.90	0.52
1:2M:244:GLY:H	1:2M:247:ASN:HD21	1.57	0.52
1:2Q:345:ILE:HB	1:2Q:348:ASN:HD21	1.74	0.52
1:2U:22:GLU:HG3	1:2U:81:TYR:CD2	2.45	0.52
1:3C:201:VAL:HG12	1:3C:266:PHE:O	2.08	0.52
2:3F:198:THR:HG21	2:3F:201:ALA:HB2	1.90	0.52
2:3H:301:MET:HE1	2:3H:307:PRO:HD3	1.91	0.52
2:3J:392:ASP:OD2	2:3J:422:ARG:NH1	2.42	0.52
1:3K:320:ARG:HH21	38:8B:171:ASP:HB3	1.74	0.52
2:3N:129:CYS:SG	2:3N:130:THR:N	2.83	0.52
3:3V:161:PHE:HB3	3:3V:180:VAL:HG23	1.91	0.52
3:3Z:161:PHE:HB3	3:3Z:180:VAL:HG23	1.91	0.52
3:4B:252:LYS:HD3	3:4B:270:LEU:HD21	1.92	0.52
3:4D:161:PHE:HB3	3:4D:180:VAL:HG23	1.91	0.52
4:4E:109:GLN:HE22	4:4E:120:THR:HB	1.74	0.52
5:4L:300:GLU:O	5:4L:304:LEU:HG	2.09	0.52
5:4L:328:GLU:O	5:4L:332:THR:HG23	2.09	0.52
5:4L:443:GLU:O	5:4L:447:GLU:HG3	2.09	0.52
7:4Q:367:ARG:HG2	7:4R:10:ASN:OD1	2.08	0.52
7:4S:6:ALA:C	7:4S:8:VAL:H	2.12	0.52
7:4T:292:GLU:HA	7:4T:295:GLU:HG3	1.90	0.52
10:5B:135:ARG:O	10:5B:139:MET:HG2	2.09	0.52
12:5F:148:MET:N	12:5F:148:MET:SD	2.82	0.52
14:5M:302:MET:SD	14:5M:307:PHE:HE1	2.33	0.52
14:5N:251:GLY:O	14:5N:267:THR:OG1	2.28	0.52
14:5N:302:MET:SD	14:5N:307:PHE:HE1	2.33	0.52
20:6F:206:PRO:O	20:6F:211:ARG:NH2	2.42	0.52
24:6U:322:LEU:HD23	24:6U:323:LYS:O	2.09	0.52
24:6Y:480:ASN:ND2	24:6Y:503:ILE:HD12	2.21	0.52
24:7A:6:PRO:HG2	31:7N:83:THR:HG23	1.92	0.52
29:7J:393:HIS:CE1	29:7J:402:LEU:HD22	2.44	0.52
31:7M:45:GLU:OE1	31:7M:45:GLU:N	2.29	0.52
35:7T:57:GLU:HA	35:7T:60:PHE:CE1	2.45	0.52
35:7U:221:GLN:NE2	35:7U:224:GLU:OE2	2.42	0.52
37:7Y:61:VAL:O	37:7Y:64:TRP:N	2.43	0.52
2:A2:206:ASN:OD1	41:A2:501:GTP:N2	2.42	0.52
1:G6:166:THR:OG1	1:G6:199:CYS:SG	2.67	0.52
1:G6:180:VAL:HG23	1:G6:184:ASN:HD21	1.74	0.52
1:G6:207:LEU:HB3	1:G6:225:LEU:HD22	1.91	0.52
2:G9:23:LEU:O	2:G9:27:GLU:HG3	2.10	0.52
2:G9:156:ARG:HA	2:G9:159:VAL:HG22	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H3:55:GLU:HG2	2:H3:61:HIS:CE1	2.44	0.52
2:H7:287:SER:OG	2:H7:288:VAL:N	2.42	0.52
2:H9:204:LEU:HD23	2:H9:231:ILE:HD12	1.91	0.52
1:I0:122:LYS:HZ2	1:J6:291:GLN:HB3	1.75	0.52
2:I7:34:GLY:HA3	2:I7:60:LYS:NZ	2.24	0.52
1:J4:173:PRO:HD2	1:J4:380:ARG:HH21	1.74	0.52
2:J9:306:ASP:HB3	2:J9:309:HIS:HD2	1.75	0.52
2:J9:313:MET:HE1	2:J9:435:VAL:HG11	1.92	0.52
2:K3:217:LEU:HG	2:K3:367:ASP:OD2	2.10	0.52
1:L0:77:ARG:HE	1:L0:90:PHE:HE2	1.57	0.52
2:L1:204:LEU:HD13	2:L1:231:ILE:HD12	1.91	0.52
2:L3:387:ILE:HG12	2:L3:390:ARG:HH22	1.74	0.52
1:L4:58:ARG:HD3	1:N0:280:GLN:HE22	1.74	0.52
2:M5:14:ILE:O	2:M5:18:ASN:HB2	2.09	0.52
2:M5:205:ASP:OD1	2:M5:303:VAL:HA	2.10	0.52
2:N5:8:HIS:CD2	2:N5:138:PHE:HD2	2.27	0.52
2:N7:81:GLY:O	2:N7:84:ARG:NH1	2.43	0.52
1:O8:138:SER:OG	1:O8:139:LEU:N	2.43	0.52
2:O9:167:LEU:HD13	2:O9:200:VAL:HB	1.91	0.52
1:P4:4:ILE:HB	1:P4:50:TYR:HE1	1.74	0.52
1:P4:156:ARG:NH1	1:P4:197:ASP:OD1	2.42	0.52
1:Q2:45:GLU:HG3	1:Q2:46:ARG:HG2	1.90	0.52
1:Q4:217:LEU:HA	20:6F:184:ARG:HH12	1.74	0.52
2:Q9:2:ARG:N	2:Q9:3:GLU:OE2	2.43	0.52
2:R5:394:LYS:HB2	1:R6:346:PRO:HG3	1.91	0.52
1:T0:350:LYS:NZ	1:T0:351:SER:O	2.39	0.52
2:T1:105:ARG:O	2:T1:109:THR:OG1	2.22	0.52
2:T3:176:GLN:OE1	2:T3:176:GLN:N	2.43	0.52
1:T4:155:ILE:HG13	1:T4:164:MET:HE1	1.92	0.52
1:T4:418:LEU:HG	1:T4:422:TYR:HE2	1.74	0.52
2:U1:292:THR:HG21	2:U1:331:SER:HB3	1.92	0.52
2:U3:98:ASP:OD1	2:U3:99:ALA:N	2.43	0.52
2:U5:72:PRO:HD2	1:U6:2:ARG:NH1	2.25	0.52
1:U8:121:ARG:NH2	1:U8:158:GLU:OE2	2.33	0.52
2:U9:88:HIS:HA	2:W5:283:HIS:CD2	2.45	0.52
2:U9:133:GLN:HB3	2:U9:252:ILE:HG21	1.92	0.52
2:U9:213:CYS:HA	2:U9:217:LEU:HB3	1.91	0.52
1:V2:178:THR:OG1	1:V2:181:GLU:HG3	2.09	0.52
2:V7:119:LEU:HA	2:V7:122:ILE:HG22	1.91	0.52
1:V8:248:ALA:HA	1:V8:252:LYS:HD2	1.92	0.52
2:V9:53:PHE:HB3	2:V9:61:HIS:HB3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W0:145:SER:OG	1:W0:188:SER:OG	2.14	0.52
1:W6:170:VAL:N	1:W6:202:LEU:O	2.36	0.52
1:X2:50:TYR:CE2	1:X2:241:ARG:HD3	2.44	0.52
1:X2:174:LYS:HG3	1:X2:380:ARG:NH2	2.24	0.52
2:X3:322:ASP:OD2	2:X3:373:ARG:NH2	2.42	0.52
1:X4:67:ASP:OD1	1:X4:67:ASP:N	2.42	0.52
2:X5:8:HIS:HE1	2:X5:21:TRP:HE1	1.58	0.52
1:Y0:328:GLU:OE2	1:Y0:332:ASN:ND2	2.42	0.52
2:Y5:34:GLY:HA3	2:Y5:60:LYS:HZ2	1.74	0.52
1:Y6:58:ARG:HD3	1:Y6:59:TYR:N	2.24	0.52
2:Y9:69:ASP:OD1	2:Y9:70:LEU:N	2.43	0.52
2:Z1:56:THR:HG22	2:0H:285:GLN:HB2	1.92	0.52
1:Z4:67:ASP:OD2	1:Z4:72:THR:OG1	2.27	0.52
2:Z5:5:ILE:HD13	2:Z5:125:LEU:HG	1.92	0.52
1:Z8:405:GLU:HA	1:Z8:408:PHE:HD2	1.75	0.52
2:0F:227:LEU:O	2:0F:231:ILE:HG12	2.10	0.52
2:0J:12:ALA:O	2:0J:16:VAL:HG23	2.10	0.52
2:0J:82:THR:O	2:0J:84:ARG:NH1	2.42	0.52
2:0L:156:ARG:HA	2:0L:159:VAL:HG12	1.92	0.52
2:0L:381:SER:OG	2:0L:382:THR:N	2.42	0.52
2:1D:116:ASP:N	2:1D:116:ASP:OD1	2.40	0.52
1:1W:3:GLU:HB2	1:1W:130:LEU:HA	1.92	0.52
1:1W:100:ASN:HB3	1:1W:103:LYS:HB2	1.90	0.52
2:1X:187:SER:O	2:1X:191:THR:HG23	2.08	0.52
2:1Z:246:GLY:HA3	2:1Z:356:ASN:HA	1.91	0.52
2:1Z:279:GLU:OE1	10:5A:275:ASN:ND2	2.43	0.52
2:1Z:331:SER:O	2:1Z:335:ILE:HG13	2.10	0.52
1:2E:12:CYS:SG	1:2E:13:GLY:N	2.82	0.52
1:2E:286:VAL:HG12	1:2E:329:GLN:HG3	1.91	0.52
2:2H:3:GLU:HB2	2:2H:129:CYS:SG	2.50	0.52
1:2I:135:VAL:HB	1:2I:166:THR:HG22	1.92	0.52
1:2I:335:ASN:O	1:2I:338:SER:OG	2.28	0.52
1:2K:156:ARG:NH1	1:2K:197:ASP:OD1	2.43	0.52
2:2P:368:LEU:O	10:5C:166:GLN:NE2	2.37	0.52
1:2W:244:GLY:H	1:2W:247:ASN:HD21	1.58	0.52
1:2Y:56:GLY:HA3	38:8C:161:GLN:CD	2.29	0.52
1:3A:418:LEU:O	1:3A:421:GLU:HG2	2.08	0.52
2:3B:276:ILE:HD11	2:3B:280:LYS:HB3	1.92	0.52
2:3D:214:ARG:HH22	38:8D:66:TYR:HD1	1.55	0.52
2:3H:90:GLU:HG2	2:3H:121:ARG:HH22	1.74	0.52
1:3O:77:ARG:CZ	3:4F:18:LYS:HB3	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3O:219:THR:HB	2:3P:324:VAL:HG11	1.91	0.52
2:3T:13:GLY:O	2:3T:16:VAL:HG22	2.09	0.52
3:3V:252:LYS:HD3	3:3V:270:LEU:HD21	1.92	0.52
4:4A:109:GLN:HE22	4:4A:120:THR:HB	1.74	0.52
3:4D:252:LYS:HD3	3:4D:270:LEU:HD21	1.92	0.52
3:4H:252:LYS:HD3	3:4H:270:LEU:HD21	1.92	0.52
8:4W:392:ALA:HA	8:4W:395:ARG:HE	1.74	0.52
15:5P:20:ILE:HD11	19:6E:104:TYR:CE1	2.45	0.52
19:6E:181:THR:O	19:6E:185:GLU:HG2	2.10	0.52
20:6F:375:PRO:HG3	20:6F:383:ARG:HB2	1.92	0.52
21:6H:51:ARG:HE	21:6H:89:ILE:HG21	1.74	0.52
21:6H:106:ARG:HB3	24:6X:81:THR:HG23	1.92	0.52
22:6N:122:ALA:HB3	22:6N:128:GLU:HG3	1.91	0.52
22:6O:45:PRO:HB2	22:6O:52:TYR:HB2	1.91	0.52
24:6V:253:PRO:HB2	24:6V:256:LEU:HD13	1.90	0.52
24:6X:322:LEU:HD23	24:6X:323:LYS:O	2.09	0.52
24:6Y:450:VAL:HB	24:6Y:469:PHE:CE2	2.45	0.52
24:6Z:124:TYR:N	24:6Z:124:TYR:HD1	2.06	0.52
38:8A:158:MET:O	38:8A:162:VAL:HG23	2.10	0.52
1:1:306:ARG:NH2	3:3V:60:PRO:HD2	2.24	0.52
2:A2:42:ILE:CD1	24:6Y:93:ARG:CZ	2.68	0.52
2:G1:238:LEU:HD11	2:G1:255:PHE:CZ	2.44	0.52
1:G2:216:LYS:O	24:6W:422:ASN:ND2	2.43	0.52
2:G5:276:ILE:CD1	2:G5:281:ALA:HA	2.39	0.52
1:G6:3:GLU:HB2	1:G6:130:LEU:HD13	1.91	0.52
2:G9:183:GLU:HG2	2:G9:184:PRO:HD3	1.92	0.52
2:G9:421:ALA:O	2:G9:425:LEU:HG	2.10	0.52
2:H3:133:GLN:HB3	2:H3:252:ILE:HD11	1.91	0.52
2:H3:318:MET:HB2	2:H3:376:CYS:HB3	1.90	0.52
1:H8:39:ASP:N	1:H8:39:ASP:OD1	2.38	0.52
2:H9:69:ASP:OD1	2:H9:70:LEU:N	2.42	0.52
1:I4:260:PHE:HB2	1:I4:263:LEU:HD23	1.91	0.52
2:I9:189:LEU:HD11	2:I9:418:PHE:HE1	1.74	0.52
1:J0:215:LEU:HB3	1:J0:217:LEU:HG	1.91	0.52
1:J4:5:VAL:HG23	1:J4:62:ARG:HG2	1.92	0.52
2:J7:266:HIS:ND1	2:J7:266:HIS:O	2.42	0.52
1:K4:198:GLU:HA	1:K4:264:HIS:HB2	1.92	0.52
2:K5:9:ILE:HG22	2:K5:146:GLY:HA2	1.91	0.52
1:K6:186:THR:HG22	1:K6:411:ALA:HB1	1.92	0.52
1:L0:382:SER:HB3	1:L0:415:MET:HG2	1.92	0.52
1:M2:54:ALA:HA	2:N9:285:GLN:HB2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N0:371:SER:OG	1:N0:372:THR:N	2.43	0.52
1:N2:2:ARG:HE	1:N2:240:LEU:HD22	1.75	0.52
1:O0:276:ARG:HA	1:O0:279:GLN:HG3	1.90	0.52
1:O2:309:ARG:H	1:O2:372:THR:HG22	1.73	0.52
1:O4:294:TRP:CD1	1:O4:333:VAL:HG21	2.45	0.52
2:O7:407:TRP:O	2:O7:411:GLU:HG2	2.10	0.52
1:O8:274:THR:HG21	1:O8:282:ARG:HD2	1.91	0.52
1:P6:404:ASP:HB2	1:P6:406:MET:SD	2.50	0.52
1:Q2:31:ASP:OD1	1:Q2:35:THR:N	2.36	0.52
1:R0:404:ASP:OD2	1:R0:405:GLU:N	2.43	0.52
1:S2:183:TYR:HA	1:S2:385:PHE:HE2	1.73	0.52
2:T1:90:GLU:HG2	2:T1:121:ARG:HH12	1.74	0.52
1:T4:290:THR:HG21	1:T4:329:GLN:HE21	1.75	0.52
2:U5:90:GLU:O	2:U5:121:ARG:NH1	2.39	0.52
2:V7:8:HIS:HB2	2:V7:67:PHE:HD1	1.74	0.52
1:W6:68:LEU:HD23	1:W6:93:GLY:HA3	1.92	0.52
2:W7:88:HIS:CD2	2:W7:121:ARG:HH22	2.28	0.52
1:W8:204:ASN:OD1	39:W8:503:GDP:O2'	2.28	0.52
2:W9:384:ILE:HA	2:W9:387:ILE:HD12	1.91	0.52
1:X8:21:TRP:O	1:X8:25:SER:OG	2.21	0.52
2:Y5:195:LEU:HD21	2:Y5:428:LEU:HD12	1.90	0.52
1:Y6:192:LEU:HD22	1:Y6:196:ALA:HB2	1.92	0.52
1:Z0:311:LEU:HD23	1:Z0:312:THR:HG23	1.91	0.52
1:0C:182:PRO:HG2	1:0C:388:MET:HE2	1.92	0.52
1:0C:262:ARG:HH21	1:0C:418:LEU:HD13	1.73	0.52
2:0F:9:ILE:HG22	2:0F:146:GLY:HA2	1.91	0.52
2:0F:171:VAL:HG22	2:0F:204:LEU:HD11	1.92	0.52
2:0J:217:LEU:HD13	2:0J:367:ASP:OD2	2.10	0.52
2:0J:244:PHE:HB2	2:0J:356:ASN:HD21	1.74	0.52
2:0N:296:PHE:HE2	2:0N:335:ILE:HD12	1.74	0.52
2:0P:296:PHE:HE2	2:0P:335:ILE:HD12	1.74	0.52
2:0R:109:THR:OG1	2:0R:411:GLU:OE2	2.25	0.52
1:0U:393:ALA:C	1:0U:395:LEU:H	2.13	0.52
1:0Y:66:MET:HE1	1:0Y:147:MET:HB3	1.91	0.52
2:0Z:69:ASP:OD2	2:0Z:70:LEU:N	2.43	0.52
2:1F:111:GLY:O	2:1F:115:VAL:HG12	2.09	0.52
2:1H:187:SER:O	2:1H:191:THR:HG23	2.10	0.52
1:1K:189:VAL:O	1:1K:193:VAL:HG13	2.10	0.52
1:1O:233:MET:HA	1:1O:236:ILE:HD12	1.92	0.52
1:1Q:130:LEU:HB2	1:1Q:162:ARG:HE	1.74	0.52
1:1U:213:ARG:HE	1:1U:297:LYS:HE3	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1V:288:VAL:O	2:1V:292:THR:HG23	2.08	0.52
1:1W:34:GLY:HA3	1:1W:58:ARG:CD	2.40	0.52
2:1X:413:MET:HB3	2:1X:417:GLU:OE2	2.10	0.52
1:2A:69:GLU:O	1:2A:72:THR:OG1	2.27	0.52
2:2B:417:GLU:HA	2:2B:420:GLU:HG2	1.91	0.52
2:2H:394:LYS:HB2	1:2I:346:PRO:HG3	1.92	0.52
2:2J:317:LEU:HB3	2:2J:319:TYR:HE1	1.75	0.52
2:2T:214:ARG:CZ	38:8A:18:VAL:HA	2.39	0.52
1:3A:382:SER:HB3	1:3A:415:MET:HG2	1.91	0.52
2:3D:362:VAL:HG21	10:5D:220:GLN:HE22	1.75	0.52
2:3L:119:LEU:HA	2:3L:122:ILE:HG22	1.91	0.52
2:3N:66:ILE:HG23	2:3N:125:LEU:HD11	1.92	0.52
2:3P:311:LYS:HG2	2:3P:342:GLN:HG3	1.90	0.52
2:3R:220:GLU:HB3	38:8D:177:HIS:HB2	1.92	0.52
2:3T:255:PHE:HA	2:3T:259:LEU:HD13	1.92	0.52
4:3W:109:GLN:HE22	4:3W:120:THR:HB	1.74	0.52
3:3Z:252:LYS:HD3	3:3Z:270:LEU:HD21	1.92	0.52
5:4M:76:LEU:HA	15:5P:361:LEU:HD21	1.92	0.52
6:4O:415:HIS:O	6:4O:418:GLU:HG2	2.10	0.52
7:4R:283:GLU:OE2	20:6F:390:ARG:NH2	2.43	0.52
12:5G:309:THR:OG1	12:5G:314:GLN:OE1	2.25	0.52
15:5O:241:LEU:HD23	15:5O:308:ALA:HB2	1.90	0.52
17:5S:144:LYS:HA	17:5S:147:VAL:HG12	1.91	0.52
17:5S:182:VAL:O	17:5S:186:LYS:HG2	2.09	0.52
17:5V:224:ARG:NH2	17:5V:224:ARG:CB	2.73	0.52
18:5Z:5:VAL:HG11	18:5Z:62:GLU:HG2	1.89	0.52
21:6H:51:ARG:NE	21:6H:89:ILE:HG21	2.24	0.52
24:6T:119:VAL:HG21	24:6T:179:PHE:HD1	1.74	0.52
24:6X:451:LYS:HB3	24:6X:468:ARG:HH11	1.74	0.52
29:7I:4:LYS:H	29:7I:4:LYS:CD	1.98	0.52
29:7I:31:PRO:HB2	29:7I:33:THR:HG22	1.91	0.52
33:7Q:179:GLN:N	33:7Q:180:PRO:HD2	2.25	0.52
34:7S:216:MET:O	34:7S:220:VAL:HG23	2.09	0.52
36:7V:76:GLN:O	36:7V:80:THR:HG22	2.09	0.52
36:7W:76:GLN:O	36:7W:80:THR:HG22	2.09	0.52
38:8D:91:GLN:HG3	38:8D:92:GLU:N	2.25	0.52
2:A2:30:ILE:N	26:7F:45:MET:HE1	2.23	0.52
1:C0:276:ARG:O	24:6Z:115:ARG:NH2	2.34	0.52
1:C8:226:ASN:OD1	39:C8:502:GDP:N1	2.28	0.52
2:E1:15:GLN:OE1	41:E1:501:GTP:N7	2.42	0.52
2:E5:282:TYR:CG	22:6K:82:LEU:CD2	2.54	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G2:212:PHE:CZ	2:G3:326:LYS:HG3	2.45	0.52
2:G3:318:MET:HB2	2:G3:376:CYS:HB3	1.90	0.52
2:G5:88:HIS:ND1	2:I1:283:HIS:HA	2.24	0.52
2:G5:381:SER:OG	2:G5:382:THR:N	2.42	0.52
1:G6:218:THR:HB	24:6Y:418:ASP:OD1	2.09	0.52
2:G7:217:LEU:HD22	2:G7:367:ASP:HB2	1.91	0.52
1:H4:128:ASP:OD1	1:H4:129:CYS:N	2.42	0.52
2:H7:191:THR:HA	2:H7:194:LEU:HB3	1.91	0.52
2:H7:274:PRO:HB2	2:H7:276:ILE:HG12	1.92	0.52
2:J1:109:THR:OG1	2:J1:411:GLU:OE2	2.23	0.52
1:J2:77:ARG:HG3	16:5Q:180:VAL:CG2	2.40	0.52
2:J3:241:SER:OG	2:J3:250:VAL:O	2.23	0.52
2:K1:22:GLU:OE1	28:7X:420:TYR:HB3	2.09	0.52
2:K1:287:SER:OG	2:K1:288:VAL:N	2.42	0.52
2:K3:210:TYR:CE1	2:K3:227:LEU:HD11	2.42	0.52
1:K8:257:LEU:HA	1:K8:312:THR:HG21	1.92	0.52
2:L7:4:VAL:HG12	2:L7:133:GLN:HB2	1.90	0.52
1:M2:87:PRO:HD2	2:N9:283:HIS:HB2	1.91	0.52
2:M3:79:ARG:NH1	2:M3:92:LEU:O	2.42	0.52
1:M4:414:ASN:HA	1:M4:417:ASP:OD2	2.10	0.52
2:M9:379:SER:OG	2:M9:380:ASN:N	2.43	0.52
2:N1:195:LEU:HD21	2:N1:264:ARG:HH11	1.75	0.52
2:N3:229:ARG:HH12	2:N3:368:LEU:HD12	1.74	0.52
2:N3:336:LYS:O	2:N3:339:ARG:NH2	2.42	0.52
1:N6:337:ASN:HB2	1:N6:340:TYR:HD2	1.74	0.52
2:N7:129:CYS:SG	2:N7:130:THR:N	2.83	0.52
1:N8:39:ASP:OD1	1:N8:40:SER:N	2.42	0.52
1:O0:139:LEU:HD12	1:O0:170:VAL:HG12	1.92	0.52
2:O3:9:ILE:HG22	2:O3:146:GLY:HA2	1.91	0.52
2:O3:322:ASP:OD1	2:O3:322:ASP:N	2.42	0.52
1:O4:86:ARG:HG2	1:O4:88:ASP:H	1.74	0.52
2:P3:137:VAL:HG11	2:P3:154:LEU:HD11	1.92	0.52
2:P7:259:LEU:HD21	2:P7:316:CYS:HB2	1.91	0.52
1:P8:39:ASP:OD1	21:6G:167:ARG:NH2	2.42	0.52
1:P8:292:GLN:HG2	1:P8:298:ASN:OD1	2.10	0.52
1:P8:334:GLN:HE22	1:P8:348:ASN:H	1.56	0.52
1:R0:80:PRO:HB3	12:7B:9:GLY:HA3	1.92	0.52
1:R0:140:GLY:O	1:R0:184:ASN:ND2	2.43	0.52
1:R0:183:TYR:HE2	1:R0:394:PHE:HB2	1.73	0.52
2:R3:33:ASP:O	2:R3:60:LYS:NZ	2.41	0.52
2:R5:212:ILE:O	2:R5:216:SER:OG	2.26	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R9:333:ALA:O	2:R9:337:THR:HG23	2.09	0.52
2:S1:3:GLU:HB2	2:S1:129:CYS:SG	2.50	0.52
2:T1:430:LYS:HE2	17:5T:23:HIS:HB2	1.92	0.52
1:T4:301:CYS:SG	1:T4:302:ALA:N	2.83	0.52
2:T7:176:GLN:HE22	2:T7:207:GLU:HG2	1.75	0.52
1:T8:100:ASN:HB3	1:T8:103:LYS:HB2	1.92	0.52
1:U8:49:VAL:HG11	1:U8:241:ARG:HG2	1.91	0.52
1:V8:33:THR:O	1:V8:58:ARG:NH2	2.43	0.52
2:W1:31:GLN:HE21	2:W1:37:PRO:HG3	1.74	0.52
2:W3:107:HIS:CD2	2:W3:152:LEU:HB2	2.44	0.52
1:X2:58:ARG:HH11	1:X2:84:ILE:HA	1.74	0.52
2:X5:253:THR:O	2:X5:257:THR:HG23	2.09	0.52
1:X6:204:ASN:ND2	39:X6:502:GDP:HN22	2.03	0.52
2:X7:399:TYR:O	2:X7:402:ARG:NH1	2.43	0.52
2:X9:12:ALA:HB2	41:Y0:501:GTP:C8	2.45	0.52
1:Y2:171:PRO:O	1:Y2:380:ARG:NH2	2.43	0.52
2:Z1:392:ASP:OD2	2:Z1:422:ARG:NH1	2.43	0.52
1:Z2:2:ARG:HB3	1:Z2:131:GLN:HB2	1.91	0.52
1:Z4:66:MET:HE1	1:Z4:147:MET:HG3	1.92	0.52
2:Z5:407:TRP:HZ2	1:Z6:258:ILE:HB	1.75	0.52
2:Z7:133:GLN:HG3	2:Z7:242:LEU:HD11	1.92	0.52
1:0C:330:MET:HA	1:0C:333:VAL:HG12	1.92	0.52
1:0G:54:ALA:HA	1:0W:283:ALA:HB2	1.92	0.52
1:0G:165:LEU:HB3	1:0G:167:PHE:CZ	2.44	0.52
1:0G:201:VAL:O	1:0G:202:LEU:HD23	2.09	0.52
2:0P:25:CYS:SG	2:0P:86:LEU:HD11	2.49	0.52
2:0R:34:GLY:HA3	2:0R:60:LYS:HZ2	1.75	0.52
1:0S:156:ARG:NH1	1:0S:160:PRO:O	2.43	0.52
1:0U:293:MET:SD	1:0U:367:PHE:HB2	2.50	0.52
1:0W:220:PRO:HD2	2:0X:326:LYS:HG2	1.90	0.52
1:1C:248:ALA:HA	1:1C:252:LYS:HD2	1.91	0.52
1:1M:24:VAL:HG21	1:1M:50:TYR:CD2	2.45	0.52
2:1N:98:ASP:OD1	2:1N:99:ALA:N	2.42	0.52
2:2B:123:ARG:NH2	2:2B:160:ASP:OD2	2.43	0.52
2:2H:251:ASP:OD1	2:2H:253:THR:OG1	2.26	0.52
2:2H:277:SER:OG	2:2H:278:ALA:N	2.42	0.52
2:2J:53:PHE:HB3	2:2J:61:HIS:HB3	1.92	0.52
1:2K:140:GLY:O	1:2K:184:ASN:ND2	2.36	0.52
2:2N:123:ARG:NH1	38:8D:75:SER:O	2.43	0.52
2:2N:195:LEU:HD11	2:2N:264:ARG:HD2	1.92	0.52
2:2N:204:LEU:HD23	2:2N:231:ILE:HD12	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2Q:233:MET:O	1:2Q:237:THR:HG22	2.10	0.52
1:2W:5:VAL:HG22	1:2W:133:PHE:HD1	1.74	0.52
1:2W:91:VAL:HG11	1:2W:116:VAL:HG23	1.91	0.52
1:3A:178:THR:OG1	1:3A:179:VAL:N	2.43	0.52
2:3D:301:MET:HE1	2:3D:307:PRO:HD3	1.91	0.52
1:3I:113:ILE:HA	1:3I:116:VAL:HG12	1.91	0.52
2:3J:50:ASN:O	2:3J:64:ARG:NH2	2.43	0.52
2:3J:56:THR:OG1	3:3Z:34:SER:HA	2.10	0.52
1:3K:371:SER:OG	1:3K:372:THR:N	2.42	0.52
1:3O:52:ASN:OD1	1:3O:52:ASN:N	2.43	0.52
2:3R:333:ALA:O	2:3R:337:THR:HG23	2.09	0.52
3:4D:149:ILE:HA	3:4D:152:LEU:HD12	1.92	0.52
3:4F:161:PHE:HB3	3:4F:180:VAL:HG23	1.91	0.52
4:4I:109:GLN:HE22	4:4I:120:THR:HB	1.74	0.52
5:4L:325:MET:O	5:4L:329:ARG:HG2	2.10	0.52
7:4R:308:ARG:CZ	20:6F:215:GLU:HG3	2.40	0.52
8:4W:146:ALA:O	8:4W:150:THR:HG23	2.09	0.52
9:4Z:205:ARG:O	9:4Z:209:GLU:HG2	2.10	0.52
10:5A:421:VAL:O	10:5A:425:THR:HG23	2.10	0.52
10:5B:261:LYS:O	10:5B:265:LYS:HG2	2.10	0.52
10:5C:166:GLN:O	10:5C:169:GLU:HG2	2.09	0.52
12:5F:58:ARG:HD2	12:5G:316:GLN:HB2	1.92	0.52
12:5F:135:ARG:HH21	21:6H:148:HIS:HB3	1.75	0.52
14:5M:225:ARG:HG2	14:5M:225:ARG:NH1	2.23	0.52
15:5P:6:ARG:HG2	15:5P:29:TYR:CE1	2.45	0.52
15:5P:98:ILE:HG22	15:5P:159:VAL:HB	1.91	0.52
15:5P:331:ASP:OD2	15:5P:334:LEU:HD13	2.09	0.52
17:5T:144:LYS:HA	17:5T:147:VAL:HG12	1.91	0.52
17:5U:144:LYS:HA	17:5U:147:VAL:HG12	1.91	0.52
22:6L:172:ARG:HH22	22:6L:176:LYS:HE2	1.74	0.52
22:6L:210:MET:O	22:6L:213:THR:OG1	2.27	0.52
24:6W:41:ARG:NE	24:6W:41:ARG:CA	2.73	0.52
24:6Y:274:ARG:HD3	24:6Y:295:HIS:HE1	1.74	0.52
27:7G:13:ILE:HG13	27:7G:13:ILE:O	2.10	0.52
38:8A:206:PRO:HG3	38:8A:209:HIS:CE1	2.44	0.52
1:B1:80:PRO:HD2	24:6V:221:ARG:HH12	1.75	0.52
1:C4:143:THR:N	39:C4:501:GDP:O2B	2.41	0.52
2:F9:221:ARG:NH2	22:6K:174:GLU:O	2.42	0.52
1:G6:190:HIS:NE2	1:G6:414:ASN:OD1	2.43	0.52
1:G6:414:ASN:HA	1:G6:417:ASP:OD2	2.10	0.52
2:H5:204:LEU:HD13	2:H5:231:ILE:HD12	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H8:178:THR:OG1	1:H8:181:GLU:HG3	2.10	0.52
2:I3:301:MET:HE1	2:I3:307:PRO:HD3	1.92	0.52
2:I7:333:ALA:O	2:I7:337:THR:HG23	2.10	0.52
1:I8:404:ASP:HB3	1:I8:406:MET:SD	2.50	0.52
2:I9:90:GLU:HB3	2:I9:121:ARG:NH2	2.22	0.52
1:J8:7:ILE:HB	1:J8:135:VAL:HG22	1.91	0.52
1:J8:57:GLY:HA2	29:7J:379:ASN:HD21	1.75	0.52
1:J8:113:ILE:HD13	1:J8:150:LEU:HD22	1.91	0.52
2:J9:60:LYS:NZ	2:L5:282:TYR:HA	2.25	0.52
2:K3:14:ILE:HD11	2:K3:74:VAL:HG13	1.91	0.52
1:L4:248:ALA:HA	1:L4:252:LYS:HD2	1.91	0.52
2:M3:176:GLN:NE2	2:M3:207:GLU:OE2	2.43	0.52
2:M5:187:SER:O	2:M5:191:THR:HG23	2.10	0.52
1:M6:75:SER:CB	15:5P:48:LYS:CE	2.88	0.52
1:M8:324:LYS:O	1:M8:328:GLU:HG3	2.10	0.52
2:N3:103:PHE:CE1	2:N3:148:GLY:HA2	2.45	0.52
2:N9:250:VAL:HG23	2:N9:254:GLU:HG3	1.91	0.52
1:O8:233:MET:O	1:O8:236:ILE:HG22	2.10	0.52
1:Q6:272:PRO:HB2	1:Q6:282:ARG:HH12	1.75	0.52
1:R0:177:ASP:O	2:R1:352:LYS:HA	2.10	0.52
2:R9:253:THR:O	2:R9:257:THR:OG1	2.28	0.52
1:S4:309:ARG:H	1:S4:372:THR:HG22	1.75	0.52
1:S4:371:SER:OG	1:S4:372:THR:N	2.43	0.52
1:S6:121:ARG:O	3:3X:65:SER:OG	2.28	0.52
1:S6:397:TRP:CZ2	2:S7:256:GLN:HB3	2.45	0.52
2:S9:90:GLU:C	2:S9:121:ARG:HH12	2.13	0.52
2:S9:407:TRP:CG	1:T0:255:VAL:HG23	2.44	0.52
1:T2:12:CYS:SG	1:T2:13:GLY:N	2.83	0.52
2:U5:327:ASP:OD1	2:U5:328:VAL:N	2.43	0.52
2:U7:223:THR:HG23	2:U7:225:THR:HG22	1.91	0.52
1:V0:49:VAL:HG11	1:V0:241:ARG:HG2	1.92	0.52
2:V3:90:GLU:HB3	2:V3:121:ARG:HH22	1.75	0.52
1:V6:175:VAL:HG11	1:V6:204:ASN:HB2	1.91	0.52
1:W0:211:CYS:HA	1:W0:215:LEU:HB2	1.90	0.52
1:X0:248:ALA:HA	1:X0:252:LYS:HD2	1.92	0.52
2:X3:136:LEU:HD12	2:X3:167:LEU:HB2	1.92	0.52
1:X6:260:PHE:HD2	1:X6:263:LEU:HD12	1.73	0.52
1:Y4:328:GLU:OE2	1:Y4:332:ASN:ND2	2.43	0.52
2:Y5:65:CYS:SG	2:Y5:66:ILE:N	2.83	0.52
1:Z0:27:GLU:OE1	1:Z0:318:ARG:NH2	2.42	0.52
1:Z2:273:LEU:H	1:Z2:292:GLN:HE22	1.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z7:216:SER:OG	2:Z7:217:LEU:N	2.43	0.52
2:Z7:269:LEU:N	2:Z7:379:SER:O	2.42	0.52
1:Z8:344:TRP:CE3	1:Z8:345:ILE:HG13	2.44	0.52
2:0B:8:HIS:CD2	2:0B:138:PHE:HD2	2.28	0.52
2:0L:204:LEU:HD23	2:0L:231:ILE:HD12	1.91	0.52
1:0O:163:MET:HB3	1:0O:250:LEU:HD22	1.92	0.52
1:0Q:12:CYS:O	1:0Q:16:ILE:HG12	2.09	0.52
2:0V:55:GLU:HG2	2:0V:61:HIS:CE1	2.44	0.52
2:0X:56:THR:HG23	2:1N:285:GLN:HB2	1.92	0.52
2:0X:118:ALA:O	2:0X:122:ILE:HG12	2.09	0.52
1:0Y:177:ASP:N	1:0Y:181:GLU:OE2	2.42	0.52
1:1A:6:HIS:CE1	1:1A:8:GLN:HG2	2.45	0.52
2:1B:33:ASP:OD2	2:1B:35:GLN:NE2	2.43	0.52
2:1F:377:MET:O	2:1F:378:ILE:HD13	2.10	0.52
1:1M:5:VAL:HG22	1:1M:133:PHE:HD1	1.74	0.52
1:1S:418:LEU:O	1:1S:421:GLU:HG2	2.09	0.52
1:1U:218:THR:O	2:1V:326:LYS:HE2	2.10	0.52
2:1V:191:THR:HA	2:1V:194:LEU:HB3	1.92	0.52
1:2A:309:ARG:NH1	1:2A:339:SER:O	2.43	0.52
2:2F:96:LYS:HZ2	38:8B:62:THR:HG21	1.74	0.52
1:2G:139:LEU:HD12	1:2G:170:VAL:HG12	1.92	0.52
2:2J:56:THR:HG23	2:2J:60:LYS:HB3	1.92	0.52
1:2M:397:TRP:HE1	2:2N:260:VAL:HG13	1.74	0.52
2:2T:90:GLU:O	2:2T:121:ARG:NH1	2.32	0.52
2:2T:326:LYS:HG3	2:2T:327:ASP:N	2.24	0.52
1:2U:177:ASP:O	2:2V:352:LYS:HA	2.10	0.52
2:2V:9:ILE:HD13	2:2V:150:GLY:HA2	1.91	0.52
2:2Z:239:THR:HG23	2:2Z:243:ARG:HH21	1.75	0.52
2:2Z:274:PRO:HB2	2:2Z:276:ILE:HG12	1.92	0.52
2:3B:21:TRP:CZ2	2:3B:65:CYS:HB3	2.45	0.52
2:3B:415:GLU:OE2	2:3B:419:SER:OG	2.27	0.52
1:3C:51:PHE:HB3	1:3C:59:TYR:HB3	1.91	0.52
2:3D:47:ASP:OD1	2:3D:48:ALA:N	2.43	0.52
1:3I:309:ARG:H	1:3I:372:THR:HG22	1.75	0.52
2:3J:236:SER:O	2:3J:243:ARG:NH2	2.42	0.52
2:3L:5:ILE:HD11	2:3L:135:PHE:CE1	2.45	0.52
1:3S:391:ARG:HD3	2:3T:346:TRP:CZ2	2.45	0.52
2:3T:317:LEU:HD23	2:3T:377:MET:HG3	1.91	0.52
3:3V:149:ILE:HA	3:3V:152:LEU:HD12	1.92	0.52
3:3X:161:PHE:HB3	3:3X:180:VAL:HG23	1.91	0.52
3:3Z:149:ILE:HA	3:3Z:152:LEU:HD12	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4B:161:PHE:HB3	3:4B:180:VAL:HG23	1.91	0.52
4:4C:109:GLN:HE22	4:4C:120:THR:HB	1.74	0.52
3:4F:149:ILE:HA	3:4F:152:LEU:HD12	1.92	0.52
4:4G:109:GLN:HE22	4:4G:120:THR:HB	1.74	0.52
3:4H:149:ILE:HA	3:4H:152:LEU:HD12	1.92	0.52
3:4J:243:LEU:N	3:4J:244:PRO:HD2	2.25	0.52
6:4O:181:GLU:O	6:4O:184:GLU:HG3	2.09	0.52
6:4O:309:MET:O	6:4O:313:VAL:HG23	2.10	0.52
8:4W:402:VAL:O	8:4W:405:GLU:HG3	2.10	0.52
10:5A:406:LEU:HA	10:5A:409:ASN:ND2	2.24	0.52
12:5F:41:ALA:HB3	12:5F:44:ILE:CG2	2.38	0.52
14:5L:113:CYS:H	14:5L:159:SER:HB3	1.73	0.52
14:5L:403:ASP:OD2	14:5L:405:LYS:HD2	2.10	0.52
14:5M:403:ASP:OD2	14:5M:405:LYS:HD2	2.10	0.52
14:5N:189:THR:OG1	14:5N:189:THR:O	2.22	0.52
15:5P:180:ASP:OD1	15:5P:183:GLN:N	2.33	0.52
22:6I:42:THR:HA	22:6I:51:ILE:HD13	1.92	0.52
22:6K:238:LEU:HD21	22:6K:243:LEU:HD22	1.90	0.52
22:6L:137:GLU:O	22:6L:141:LYS:HG2	2.10	0.52
22:6N:28:GLN:HG3	22:6N:29:GLU:OE2	2.10	0.52
22:6N:31:TYR:O	22:6N:32:LYS:HG3	2.10	0.52
24:6T:242:PHE:O	24:6T:246:VAL:HG23	2.10	0.52
24:6U:513:THR:HG23	24:6U:515:LEU:H	1.74	0.52
24:6X:450:VAL:HG13	24:6X:469:PHE:O	2.10	0.52
24:6Y:86:PRO:HD2	24:6Y:89:VAL:HG11	1.92	0.52
26:7F:58:ILE:HD13	26:7F:82:PRO:HB2	1.92	0.52
29:7J:316:VAL:HG12	29:7J:317:SER:N	2.25	0.52
35:7U:121:ALA:O	35:7U:124:GLN:HG3	2.10	0.52
2:4:283:HIS:HE1	2:S7:85:GLN:O	1.93	0.52
2:8:221:ARG:C	26:7E:77:ILE:O	2.44	0.52
2:A4:324:VAL:CG1	26:7F:142:PHE:HZ	2.23	0.52
1:C0:358:PRO:O	18:6C:22:ARG:NH2	2.43	0.52
2:F3:26:LEU:HD21	22:6O:90:ALA:HB1	1.91	0.52
2:G3:392:ASP:OD2	2:G3:422:ARG:NH1	2.43	0.52
1:G6:134:GLN:HE21	1:G6:167:PHE:HE2	1.58	0.52
1:G6:218:THR:O	2:G7:326:LYS:HE2	2.10	0.52
2:H1:227:LEU:O	2:H1:230:LEU:HG	2.10	0.52
2:H3:90:GLU:HB3	2:H3:121:ARG:NH2	2.25	0.52
2:H5:280:LYS:HA	2:H5:283:HIS:HB3	1.92	0.52
1:I0:219:THR:HG21	24:6X:488:ARG:CD	2.35	0.52
2:I3:35:GLN:HB3	2:I3:59:GLY:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I7:222:PRO:HD2	1:I8:324:LYS:HE3	1.92	0.52
2:J1:9:ILE:HG22	2:J1:146:GLY:HA2	1.90	0.52
1:J4:35:THR:HG21	5:4M:120:ARG:HH11	1.74	0.52
1:J6:207:LEU:HB3	1:J6:225:LEU:HD22	1.92	0.52
2:J7:121:ARG:HD2	2:J7:121:ARG:O	2.10	0.52
2:J9:14:ILE:HD11	2:J9:74:VAL:HG22	1.92	0.52
1:K0:5:VAL:HG12	1:K0:133:PHE:HD1	1.74	0.52
2:K3:129:CYS:SG	2:K3:130:THR:N	2.83	0.52
2:K7:88:HIS:HD1	2:M3:283:HIS:CB	2.23	0.52
2:L3:98:ASP:OD1	2:L3:99:ALA:N	2.42	0.52
1:L4:60:VAL:HG11	1:N0:281:TYR:HB3	1.91	0.52
1:M0:6:HIS:NE2	1:M0:136:CYS:SG	2.79	0.52
2:O1:327:ASP:N	2:O1:327:ASP:OD2	2.35	0.52
1:O4:245:GLN:HG2	19:6E:86:THR:HG21	1.92	0.52
1:O8:153:SER:HA	1:O8:195:ASN:HD22	1.75	0.52
2:O9:236:SER:O	2:O9:243:ARG:NH2	2.43	0.52
2:P7:90:GLU:HG2	2:P7:121:ARG:HH12	1.72	0.52
2:Q3:122:ILE:O	2:Q3:125:LEU:HB2	2.09	0.52
1:R8:173:PRO:HB3	1:R8:384:GLN:HE22	1.74	0.52
1:R8:177:ASP:O	2:R9:352:LYS:HA	2.10	0.52
2:R9:119:LEU:HA	2:R9:122:ILE:HG22	1.91	0.52
2:R9:223:THR:OG1	1:S0:245:GLN:NE2	2.43	0.52
2:S1:156:ARG:HA	2:S1:159:VAL:HG12	1.91	0.52
1:S4:336:LYS:HD3	17:5R:48:THR:HG23	1.91	0.52
2:S5:324:VAL:HG23	2:S5:326:LYS:HG3	1.92	0.52
2:S5:434:GLU:OE1	13:5H:60:HIS:ND1	2.43	0.52
1:S8:5:VAL:HG22	1:S8:62:ARG:HD3	1.92	0.52
1:T8:183:TYR:HE2	1:T8:394:PHE:HB2	1.75	0.52
2:U3:287:SER:OG	2:U3:288:VAL:N	2.42	0.52
1:U6:175:VAL:HG12	2:U7:329:ASN:HD21	1.75	0.52
2:U9:90:GLU:HB3	2:U9:121:ARG:HH22	1.73	0.52
1:V2:177:ASP:O	2:V3:352:LYS:HA	2.10	0.52
1:V6:60:VAL:HG11	1:X2:281:TYR:HB3	1.92	0.52
2:V7:33:ASP:HA	2:V7:85:GLN:HB2	1.91	0.52
2:V9:154:LEU:HD11	2:V9:166:LYS:HD2	1.92	0.52
1:W0:171:PRO:HB3	1:W0:181:GLU:OE2	2.10	0.52
1:W2:309:ARG:H	1:W2:372:THR:HG22	1.75	0.52
2:W7:33:ASP:OD2	2:W7:35:GLN:NE2	2.43	0.52
2:X3:286:LEU:O	2:X3:373:ARG:NH1	2.42	0.52
1:X4:122:LYS:O	1:X4:126:SER:OG	2.22	0.52
1:X4:205:GLU:HG2	1:X4:206:ALA:N	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X7:282:TYR:CE2	2:X7:283:HIS:CE1	2.98	0.52
1:Y4:49:VAL:HG13	1:Y4:50:TYR:HD2	1.75	0.52
2:Y9:27:GLU:CD	2:Y9:243:ARG:HH12	2.13	0.52
1:Z4:198:GLU:HA	1:Z4:264:HIS:HB2	1.92	0.52
2:Z5:21:TRP:CZ3	2:Z5:63:PRO:HB3	2.45	0.52
2:Z7:252:ILE:HA	2:Z7:255:PHE:CE2	2.45	0.52
1:0E:24:VAL:HA	1:0E:27:GLU:HG2	1.92	0.52
1:0K:207:LEU:HB3	1:0K:225:LEU:HD22	1.92	0.52
2:0L:227:LEU:O	2:0L:231:ILE:HG12	2.09	0.52
2:0N:175:PRO:HB3	2:0N:390:ARG:NE	2.25	0.52
2:0N:213:CYS:SG	2:0N:219:ILE:HB	2.50	0.52
1:0Q:27:GLU:OE2	1:0Q:318:ARG:NH2	2.43	0.52
1:0Q:249:ASP:OD1	1:0Q:250:LEU:N	2.43	0.52
1:0Q:265:PHE:HB3	1:0Q:374:ILE:HD13	1.92	0.52
1:0Q:286:VAL:HG23	1:0Q:287:PRO:HD3	1.91	0.52
1:0S:204:ASN:ND2	39:0S:502:GDP:N3	2.49	0.52
2:0V:183:GLU:HG3	2:0V:184:PRO:HD3	1.91	0.52
2:0V:212:ILE:O	2:0V:216:SER:OG	2.26	0.52
1:0W:301:CYS:SG	1:0W:302:ALA:N	2.83	0.52
1:1A:199:CYS:SG	1:1A:200:MET:N	2.82	0.52
2:1F:115:VAL:HG22	2:1F:119:LEU:HD23	1.92	0.52
2:1L:26:LEU:HD21	2:1L:363:VAL:HG12	1.91	0.52
1:1M:207:LEU:HB3	1:1M:225:LEU:HD22	1.92	0.52
2:1N:83:TYR:HB3	2:1N:86:LEU:CB	2.40	0.52
2:1N:313:MET:SD	2:1N:346:TRP:CZ2	3.01	0.52
2:1P:362:VAL:HG13	2:1P:370:LYS:HD3	1.92	0.52
1:1Q:385:PHE:HZ	1:1Q:408:PHE:HD1	1.56	0.52
2:1R:145:THR:OG1	41:1S:501:GTP:O1B	2.27	0.52
2:1T:116:ASP:N	2:1T:116:ASP:OD1	2.40	0.52
2:1X:383:ALA:HA	2:1X:386:GLU:OE1	2.09	0.52
2:1Z:258:ASN:HD22	2:1Z:352:LYS:NZ	2.08	0.52
1:2C:5:VAL:HG12	1:2C:133:PHE:HD1	1.74	0.52
1:2C:211:CYS:HA	1:2C:215:LEU:HB2	1.91	0.52
2:2J:195:LEU:O	2:2J:266:HIS:NE2	2.36	0.52
2:2P:344:VAL:HG22	2:2P:346:TRP:H	1.75	0.52
1:2Q:107:THR:OG1	1:2Q:108:GLU:OE1	2.20	0.52
1:2Q:328:GLU:CD	38:7Z:1:MET:HB2	2.31	0.52
2:2Z:178:SER:HB3	2:2Z:183:GLU:OE2	2.10	0.52
2:3B:156:ARG:HA	2:3B:159:VAL:HG12	1.92	0.52
1:3G:178:THR:OG1	1:3G:181:GLU:HG3	2.10	0.52
1:3O:145:SER:HG	1:3O:188:SER:HG	1.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:3X:149:ILE:HA	3:3X:152:LEU:HD12	1.92	0.52
3:4B:149:ILE:HA	3:4B:152:LEU:HD12	1.92	0.52
14:5M:415:LYS:CE	23:6R:22:MET:CB	2.68	0.52
14:5N:403:ASP:OD2	14:5N:405:LYS:HD2	2.10	0.52
15:5O:15:ASP:OD1	15:5O:15:ASP:N	2.28	0.52
15:5O:167:GLY:O	15:5O:171:LYS:HG2	2.10	0.52
16:5Q:63:ARG:NE	16:5Q:95:SER:O	2.30	0.52
17:5T:116:LYS:HG2	17:5T:117:PRO:HD2	1.92	0.52
21:6G:52:GLN:HG3	21:6G:55:TRP:HE1	1.74	0.52
22:6M:31:TYR:O	22:6M:32:LYS:HG3	2.10	0.52
24:6T:482:ILE:N	24:6T:482:ILE:CD1	2.72	0.52
24:6U:279:TRP:CZ2	24:6U:364:ARG:HG3	2.45	0.52
24:6U:555:THR:O	24:6U:558:LEU:HG	2.10	0.52
24:6Z:123:TYR:CE2	24:6Z:163:PRO:HG3	2.44	0.52
28:7H:316:ASN:O	28:7H:320:THR:HG23	2.09	0.52
29:7J:390:LEU:CG	29:7J:391:PRO:CD	2.88	0.52
38:8A:82:ASP:CB	38:8A:112:ILE:HG21	2.33	0.52
1:3:45:GLU:HG2	18:5X:35:LEU:HD12	1.92	0.51
2:E7:282:TYR:OH	22:6L:82:LEU:N	2.43	0.51
2:F7:221:ARG:NH1	22:6J:177:LEU:O	2.43	0.51
1:H4:214:THR:O	1:H4:275:SER:OG	2.27	0.51
1:I2:391:ARG:HD3	2:I3:346:TRP:NE1	2.21	0.51
2:I3:287:SER:OG	2:I3:288:VAL:N	2.43	0.51
1:I4:276:ARG:HH11	24:6Z:491:GLY:CA	2.23	0.51
1:J0:91:VAL:HG11	1:J0:116:VAL:HG23	1.92	0.51
2:J1:116:ASP:N	2:J1:116:ASP:OD1	2.41	0.51
1:J4:40:SER:OG	1:J4:41:ASP:N	2.43	0.51
1:J8:219:THR:HA	2:J9:326:LYS:NZ	2.25	0.51
1:K0:248:ALA:HA	1:K0:252:LYS:HD2	1.92	0.51
2:K1:34:GLY:HA3	2:K1:60:LYS:HZ2	1.75	0.51
2:K3:278:ALA:HA	2:K3:369:ALA:HB2	1.92	0.51
2:K5:344:VAL:HG22	2:K5:346:TRP:H	1.75	0.51
2:K7:213:CYS:SG	2:K7:219:ILE:HB	2.50	0.51
2:K9:129:CYS:SG	2:K9:130:THR:N	2.83	0.51
2:L3:155:GLU:HB3	2:L3:197:HIS:CE1	2.44	0.51
2:L9:88:HIS:CE1	1:N6:280:GLN:HB2	2.44	0.51
2:M1:84:ARG:HH12	27:7G:112:THR:HA	1.75	0.51
2:M7:88:HIS:O	1:O4:281:TYR:OH	2.27	0.51
1:M8:260:PHE:HB2	1:M8:263:LEU:HD23	1.91	0.51
1:M8:282:ARG:HH21	1:M8:288:GLU:HB3	1.74	0.51
1:N0:404:ASP:HB3	1:N0:406:MET:SD	2.51	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N1:405:VAL:HG13	2:N1:418:PHE:HE2	1.75	0.51
2:N3:209:ILE:HD13	2:N3:227:LEU:CD1	2.40	0.51
1:O2:45:GLU:HG3	1:O2:46:ARG:HG2	1.92	0.51
1:O4:334:GLN:HE22	1:O4:348:ASN:H	1.58	0.51
2:Q3:327:ASP:OD1	2:Q3:328:VAL:N	2.44	0.51
1:Q4:5:VAL:HB	1:Q4:133:PHE:HD1	1.75	0.51
1:Q4:12:CYS:HB3	1:Q4:138:SER:HB3	1.92	0.51
2:S1:118:ALA:O	2:S1:122:ILE:HG13	2.11	0.51
1:S4:128:ASP:OD1	1:S4:129:CYS:N	2.42	0.51
2:S9:176:GLN:N	2:S9:176:GLN:OE1	2.43	0.51
1:T4:193:VAL:HG13	1:T4:194:GLU:HG2	1.91	0.51
2:T5:170:THR:HG21	2:T5:194:LEU:HD11	1.92	0.51
2:T5:191:THR:HA	2:T5:194:LEU:HB3	1.92	0.51
2:T7:66:ILE:HD12	2:T7:68:LEU:HD23	1.92	0.51
2:U1:11:GLN:NE2	1:U2:247:ASN:OD1	2.43	0.51
2:U1:187:SER:O	2:U1:191:THR:HG23	2.11	0.51
1:U6:282:ARG:HH21	1:U6:284:LEU:HD13	1.75	0.51
1:U6:334:GLN:HE22	1:U6:348:ASN:H	1.58	0.51
1:V2:220:PRO:HD2	2:V3:326:LYS:HD3	1.91	0.51
2:W9:317:LEU:HB3	2:W9:319:TYR:HE1	1.74	0.51
2:W9:363:VAL:HG23	2:W9:366:GLY:HA3	1.93	0.51
1:X2:273:LEU:H	1:X2:292:GLN:NE2	2.06	0.51
1:X4:199:CYS:HG	1:X4:265:PHE:HD1	1.58	0.51
1:X6:344:TRP:CE3	1:X6:345:ILE:HG13	2.45	0.51
1:Y0:371:SER:OG	1:Y0:372:THR:N	2.42	0.51
2:Y3:244:PHE:HB2	2:Y3:356:ASN:HD21	1.74	0.51
2:Y9:203:MET:HB2	2:Y9:303:VAL:HG21	1.92	0.51
2:Y9:275:ILE:HD12	2:Y9:368:LEU:HD21	1.91	0.51
1:Z4:250:LEU:HD12	1:Z4:250:LEU:H	1.74	0.51
1:Z6:309:ARG:NH1	1:Z6:339:SER:O	2.43	0.51
1:0G:134:GLN:HE21	1:0G:167:PHE:HE2	1.58	0.51
1:0G:287:PRO:HA	1:0G:290:THR:HG22	1.91	0.51
1:0G:337:ASN:HB3	1:0G:340:TYR:HD2	1.75	0.51
2:0N:313:MET:CG	2:0N:346:TRP:CH2	2.93	0.51
1:0O:54:ALA:HB3	1:0O:58:ARG:HB3	1.91	0.51
1:0Q:134:GLN:HE21	1:0Q:167:PHE:HE2	1.57	0.51
2:1B:269:LEU:HD21	2:1B:383:ALA:HB3	1.92	0.51
2:1F:74:VAL:O	2:1F:78:VAL:HG23	2.09	0.51
2:1H:313:MET:SD	2:1H:344:VAL:HG11	2.51	0.51
2:1N:3:GLU:HB2	2:1N:129:CYS:SG	2.50	0.51
2:1N:417:GLU:HA	2:1N:420:GLU:HG2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1V:98:ASP:OD1	2:1V:99:ALA:N	2.43	0.51
2:1Z:254:GLU:O	2:1Z:258:ASN:ND2	2.43	0.51
1:2C:210:ILE:O	1:2C:214:THR:OG1	2.23	0.51
2:2D:392:ASP:OD2	2:2D:422:ARG:NH1	2.43	0.51
2:2D:428:LEU:HG	2:2D:432:PHE:CE2	2.43	0.51
1:2K:274:THR:HG21	1:2K:282:ARG:HD2	1.92	0.51
1:2K:309:ARG:H	1:2K:372:THR:HG22	1.73	0.51
2:2N:325:PRO:HA	2:2N:328:VAL:HG22	1.91	0.51
1:2Q:173:PRO:HD2	1:2Q:380:ARG:NH1	2.25	0.51
1:2U:198:GLU:HA	1:2U:264:HIS:HB2	1.91	0.51
2:2V:14:ILE:HD11	2:2V:74:VAL:HG13	1.92	0.51
2:2X:313:MET:HE1	2:2X:435:VAL:HG11	1.91	0.51
2:3R:156:ARG:HA	2:3R:159:VAL:HG12	1.92	0.51
2:3T:8:HIS:CD2	2:3T:138:PHE:HD2	2.29	0.51
4:3Y:109:GLN:HE22	4:3Y:120:THR:HB	1.74	0.51
3:4D:35:CYS:SG	3:4D:36:PHE:N	2.83	0.51
6:4N:474:PRO:HG3	6:4O:138:LYS:HB3	1.92	0.51
12:5G:340:ILE:HD11	12:5G:369:ALA:HB1	1.92	0.51
15:5O:56:LYS:N	15:5O:56:LYS:CD	2.73	0.51
15:5O:321:GLU:OE2	15:5O:324:ARG:NH2	2.43	0.51
15:5P:172:TRP:HE1	15:5P:207:GLY:HA3	1.75	0.51
19:6E:71:ILE:O	19:6E:71:ILE:HG13	2.08	0.51
22:6P:53:THR:O	22:6P:57:THR:OG1	2.27	0.51
22:6P:114:THR:O	22:6P:118:VAL:HG23	2.10	0.51
24:6Z:187:PHE:O	24:6Z:190:GLU:HG3	2.10	0.51
24:6Z:322:LEU:HD23	24:6Z:323:LYS:O	2.10	0.51
24:6Z:452:MET:HA	24:6Z:530:PHE:HA	1.91	0.51
26:7D:58:ILE:HD11	26:7D:82:PRO:HB2	1.91	0.51
30:7K:207:ASP:OD2	30:7K:210:GLN:HG3	2.10	0.51
36:7W:99:GLU:O	36:7W:103:ASN:OD1	2.27	0.51
37:7Y:177:ARG:HH12	37:7Y:184:ALA:HB1	1.74	0.51
2:2:85:GLN:HE21	18:5X:78:LEU:HD22	1.74	0.51
2:2:434:GLU:OE2	4:3W:100:ARG:NH1	2.20	0.51
2:G3:289:ALA:O	2:G3:293:ASN:ND2	2.43	0.51
1:G6:58:ARG:HD3	1:I2:280:GLN:HE22	1.75	0.51
1:G6:219:THR:HG22	24:6Y:418:ASP:OD1	2.09	0.51
1:G8:216:LYS:HB3	24:6Z:422:ASN:OD1	2.09	0.51
2:G9:55:GLU:HG2	2:G9:61:HIS:CE1	2.45	0.51
2:G9:116:ASP:OD1	2:G9:116:ASP:N	2.38	0.51
2:G9:282:TYR:HE2	22:6P:217:GLN:HE22	1.57	0.51
2:G9:394:LYS:HA	2:G9:397:LEU:HD12	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H3:116:ASP:N	2:H3:116:ASP:OD1	2.43	0.51
2:H3:306:ASP:HB3	2:H3:309:HIS:HD2	1.74	0.51
2:H9:287:SER:OG	2:H9:288:VAL:N	2.43	0.51
1:I2:77:ARG:HH21	1:I2:90:PHE:HD2	1.57	0.51
2:I3:116:ASP:N	2:I3:116:ASP:OD1	2.44	0.51
2:I5:287:SER:OG	2:I5:288:VAL:N	2.43	0.51
1:J2:274:THR:O	1:J2:276:ARG:NH1	2.40	0.51
2:J3:88:HIS:CE1	2:J3:121:ARG:NH2	2.78	0.51
2:J9:29:GLY:HA3	2:J9:40:LYS:HZ2	1.76	0.51
2:J9:58:ALA:HB1	6:4O:474:PRO:HB3	1.92	0.51
2:J9:305:CYS:HB3	2:J9:387:ILE:HD11	1.92	0.51
2:L1:381:SER:OG	2:L1:382:THR:N	2.42	0.51
2:L5:405:VAL:HG13	2:L5:418:PHE:HE2	1.75	0.51
2:L7:211:ASP:OD2	2:L7:304:LYS:HD3	2.09	0.51
1:M4:220:PRO:HD2	2:M5:326:LYS:HD3	1.92	0.51
1:M6:3:GLU:HB2	1:M6:130:LEU:HA	1.91	0.51
2:N1:277:SER:OG	2:N1:278:ALA:N	2.43	0.51
1:O0:361:LEU:HD21	27:7G:54:HIS:HB2	1.91	0.51
2:O1:170:THR:HG21	2:O1:194:LEU:HD11	1.91	0.51
1:P6:180:VAL:HG23	1:P6:184:ASN:HD21	1.76	0.51
1:P6:287:PRO:HA	1:P6:290:THR:HG22	1.92	0.51
2:Q1:115:VAL:HG22	2:Q1:119:LEU:HD23	1.92	0.51
1:Q2:317:PHE:HE2	1:Q2:326:VAL:HG13	1.75	0.51
1:Q4:301:CYS:HB2	1:Q4:377:MET:CE	2.40	0.51
2:Q9:337:THR:O	2:Q9:339:ARG:NH1	2.43	0.51
1:R8:253:LEU:HD21	1:R8:316:LEU:HD21	1.92	0.51
2:R9:192:HIS:HD2	2:R9:421:ALA:HA	1.75	0.51
1:S2:153:SER:O	1:S2:157:GLU:HG2	2.09	0.51
1:S4:180:VAL:HG23	1:S4:184:ASN:HD21	1.75	0.51
1:S8:2:ARG:HE	1:S8:240:LEU:HD22	1.75	0.51
2:S9:381:SER:OG	2:S9:382:THR:N	2.43	0.51
2:T3:372:GLN:NE2	7:4U:84:THR:HG21	2.24	0.51
1:T6:110:ALA:HB1	3:4H:75:ARG:NE	2.25	0.51
2:T7:15:GLN:HB3	2:T7:228:ASN:HD21	1.75	0.51
1:U6:114:ASP:OD1	1:U6:115:SER:N	2.44	0.51
2:U7:399:TYR:O	2:U7:402:ARG:NH1	2.43	0.51
1:V2:285:THR:OG1	1:V2:287:PRO:HD2	2.10	0.51
2:V7:320:ARG:NH2	2:V7:359:PRO:O	2.43	0.51
2:V9:417:GLU:HA	2:V9:420:GLU:HG2	1.92	0.51
2:W3:399:TYR:OH	2:W3:415:GLU:OE2	2.29	0.51
1:W8:140:GLY:O	1:W8:184:ASN:ND2	2.32	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W8:273:LEU:H	1:W8:292:GLN:HE22	1.58	0.51
1:X0:113:ILE:HA	1:X0:116:VAL:HG12	1.92	0.51
1:X2:178:THR:HA	2:X3:352:LYS:HD2	1.93	0.51
2:X3:129:CYS:SG	2:X3:130:THR:N	2.83	0.51
2:X5:286:LEU:HD11	2:X5:372:GLN:H	1.75	0.51
1:Y2:177:ASP:O	2:Y3:352:LYS:HA	2.09	0.51
2:Y3:62:VAL:HG12	2:Y3:88:HIS:HD2	1.75	0.51
2:Y5:90:GLU:HB2	2:0B:283:HIS:CE1	2.46	0.51
1:Z0:7:ILE:HD13	1:Z0:135:VAL:HG22	1.92	0.51
1:Z4:183:TYR:OH	1:Z4:388:MET:HB3	2.11	0.51
2:Z5:324:VAL:HG13	2:Z5:327:ASP:H	1.74	0.51
2:0F:101:ASN:OD1	1:0G:252:LYS:HE3	2.10	0.51
1:0G:405:GLU:HA	1:0G:408:PHE:HD2	1.74	0.51
2:0H:28:HIS:CE1	2:0H:49:PHE:HA	2.46	0.51
2:0J:33:ASP:OD2	2:0J:35:GLN:NE2	2.43	0.51
2:0L:213:CYS:SG	2:0L:219:ILE:HB	2.50	0.51
1:0Q:274:THR:HG21	1:0Q:282:ARG:HD2	1.92	0.51
2:1D:9:ILE:HG23	2:1D:68:LEU:HD11	1.92	0.51
1:1M:193:VAL:HG12	1:1M:265:PHE:HZ	1.73	0.51
2:1N:178:SER:HB3	2:1N:183:GLU:OE2	2.10	0.51
2:1X:156:ARG:HA	2:1X:159:VAL:HG22	1.92	0.51
2:1X:189:LEU:HD11	2:1X:418:PHE:HE1	1.73	0.51
2:2B:161:TYR:CE1	38:8A:80:TYR:HB3	2.46	0.51
2:2F:204:LEU:CD2	2:2F:231:ILE:HD12	2.41	0.51
2:2H:47:ASP:N	2:2H:47:ASP:OD1	2.44	0.51
1:2M:49:VAL:HG11	1:2M:241:ARG:HG2	1.92	0.51
2:2P:305:CYS:HB3	2:2P:387:ILE:HD11	1.92	0.51
2:2R:47:ASP:N	2:2R:47:ASP:OD1	2.42	0.51
1:3K:177:ASP:O	2:3L:352:LYS:HA	2.10	0.51
1:3Q:68:LEU:HD12	1:3Q:143:THR:HG22	1.92	0.51
2:3T:250:VAL:HB	2:3T:254:GLU:HG3	1.92	0.51
3:3V:35:CYS:SG	3:3V:36:PHE:N	2.83	0.51
3:3X:35:CYS:SG	3:3X:36:PHE:N	2.83	0.51
3:4B:35:CYS:SG	3:4B:36:PHE:N	2.83	0.51
3:4H:35:CYS:SG	3:4H:36:PHE:N	2.83	0.51
5:4M:198:ASP:OD2	5:4M:202:ARG:NE	2.43	0.51
10:5A:472:GLN:HB2	10:5A:476:ARG:HH21	1.74	0.51
14:5L:188:ALA:CA	14:5L:226:VAL:HG12	2.31	0.51
14:5L:354:GLU:HA	14:5L:369:LEU:HB3	1.92	0.51
14:5N:354:GLU:HA	14:5N:369:LEU:HB3	1.92	0.51
22:6I:281:LYS:HB2	22:6I:282:LYS:NZ	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:6U:9:PRO:HB2	24:6U:14:TYR:CE2	2.45	0.51
24:6V:592:ASP:OD1	24:6V:593:LEU:HD12	2.09	0.51
24:6X:445:ILE:N	24:6X:445:ILE:CD1	2.72	0.51
24:6Z:345:ASP:OD1	24:6Z:346:GLN:N	2.44	0.51
28:7H:411:PRO:HA	28:7H:414:GLN:NE2	2.24	0.51
34:7S:255:LEU:HA	35:7U:209:MET:HE1	1.92	0.51
28:7X:411:PRO:HA	28:7X:414:GLN:NE2	2.24	0.51
38:8A:12:LEU:HD11	38:8A:24:TYR:OH	2.10	0.51
38:8B:172:GLY:O	38:8B:173:ALA:C	2.48	0.51
2:8:264:ARG:NH2	4:4C:118:ILE:HD13	2.24	0.51
1:A3:40:SER:O	26:7F:25:TYR:HE2	1.92	0.51
1:F6:216:LYS:HB2	24:6T:422:ASN:ND2	2.24	0.51
1:G4:282:ARG:HH11	1:G4:288:GLU:HG3	1.75	0.51
2:G9:229:ARG:HD3	2:G9:363:VAL:HG21	1.92	0.51
2:H5:189:LEU:HD11	2:H5:418:PHE:HE1	1.75	0.51
1:H6:335:ASN:O	1:H6:338:SER:OG	2.27	0.51
1:H8:248:ALA:HA	1:H8:252:LYS:HD2	1.92	0.51
1:J0:126:SER:HA	29:7I:6:PRO:HG2	1.93	0.51
1:J6:67:ASP:N	1:J6:67:ASP:OD1	2.43	0.51
2:J9:132:LEU:HD22	2:J9:164:LYS:HD3	1.92	0.51
1:K0:114:ASP:OD1	1:K0:114:ASP:N	2.43	0.51
1:K4:139:LEU:HD12	1:K4:170:VAL:HG22	1.93	0.51
1:K8:391:ARG:HD3	2:K9:346:TRP:CE2	2.45	0.51
2:K9:417:GLU:HA	2:K9:420:GLU:HG2	1.93	0.51
1:L2:121:ARG:O	1:L2:125:GLU:HG2	2.11	0.51
1:L4:272:PRO:HB2	1:L4:282:ARG:HH12	1.74	0.51
2:L5:174:SER:HA	2:L5:205:ASP:OD1	2.10	0.51
2:L5:370:LYS:HD3	6:4P:147:GLU:OE2	2.11	0.51
1:L6:113:ILE:HA	1:L6:116:VAL:HG22	1.92	0.51
1:M2:309:ARG:H	1:M2:372:THR:HG22	1.74	0.51
1:M6:30:ILE:HG22	1:M6:36:TYR:HA	1.93	0.51
1:M6:75:SER:HA	15:5P:48:LYS:HE2	1.85	0.51
1:M6:138:SER:OG	1:M6:139:LEU:N	2.41	0.51
2:N1:280:LYS:HD2	30:7L:318:TYR:CD2	2.45	0.51
1:N2:3:GLU:HB2	1:N2:130:LEU:HA	1.91	0.51
2:N3:121:ARG:NH1	2:N3:125:LEU:HG	2.25	0.51
2:N5:187:SER:O	2:N5:190:SER:OG	2.24	0.51
2:N7:14:ILE:HD11	2:N7:74:VAL:HG13	1.92	0.51
2:N7:116:ASP:OD1	2:N7:156:ARG:NH1	2.43	0.51
2:N7:269:LEU:N	2:N7:379:SER:O	2.44	0.51
2:O1:278:ALA:HA	2:O1:369:ALA:HB2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O6:393:ALA:HB2	2:O7:346:TRP:CZ3	2.45	0.51
2:P3:238:LEU:HD11	2:P3:255:PHE:HZ	1.75	0.51
2:Q3:32:PRO:HG2	20:6F:356:GLN:HE22	1.74	0.51
2:Q9:428:LEU:HG	2:Q9:432:PHE:CE2	2.45	0.51
2:R1:155:GLU:HG2	2:R1:197:HIS:CE1	2.46	0.51
2:R1:324:VAL:HG23	2:R1:326:LYS:H	1.75	0.51
1:R4:54:ALA:O	7:4T:351:ARG:NH1	2.43	0.51
1:R4:117:LEU:HA	1:R4:120:VAL:HG12	1.92	0.51
1:R4:317:PHE:HB3	1:R4:321:MET:SD	2.50	0.51
2:R7:14:ILE:HD11	2:R7:74:VAL:HG13	1.92	0.51
2:R9:223:THR:HG23	2:R9:225:THR:H	1.74	0.51
2:R9:282:TYR:OH	20:6F:333:ARG:HD3	2.10	0.51
1:S2:8:GLN:CD	1:S2:17:GLY:HA3	2.30	0.51
1:S2:424:GLN:HE21	17:5V:104:PHE:HD2	1.58	0.51
1:S4:134:GLN:HE21	1:S4:167:PHE:HE2	1.59	0.51
1:S4:186:THR:HG21	1:S4:385:PHE:CD2	2.45	0.51
2:S7:389:SER:HB2	17:5S:25:SER:OG	2.11	0.51
2:S9:26:LEU:HD23	2:S9:363:VAL:HG12	1.93	0.51
1:T2:99:ASN:ND2	2:T3:258:ASN:OD1	2.37	0.51
2:T3:7:ILE:HD12	2:T3:153:LEU:HD21	1.91	0.51
2:T3:130:THR:HG21	24:6Y:35:TYR:O	2.09	0.51
1:T4:114:ASP:OD1	1:T4:115:SER:N	2.43	0.51
1:T6:53:GLU:HB3	1:T6:59:TYR:CD1	2.46	0.51
1:T8:291:GLN:HG3	13:5K:100:MET:HE1	1.93	0.51
2:U5:336:LYS:HD3	2:U5:351:PHE:CE2	2.45	0.51
1:V8:246:LEU:HD22	1:V8:352:SER:HA	1.92	0.51
1:W8:177:ASP:O	2:W9:352:LYS:HA	2.11	0.51
2:X3:12:ALA:HB2	41:X4:501:GTP:C8	2.45	0.51
1:X6:208:TYR:CE1	1:X6:225:LEU:HD11	2.45	0.51
1:Y0:249:ASP:OD1	1:Y0:250:LEU:N	2.44	0.51
2:Y1:83:TYR:HB3	2:Y1:86:LEU:HB3	1.91	0.51
2:Y1:129:CYS:SG	2:Y1:130:THR:N	2.83	0.51
2:Z1:244:PHE:HB2	2:Z1:356:ASN:HD21	1.75	0.51
1:Z2:205:GLU:HG2	1:Z2:206:ALA:H	1.74	0.51
1:Z2:257:LEU:HD11	1:Z2:314:SER:HB3	1.92	0.51
1:Z6:198:GLU:HA	1:Z6:264:HIS:HB2	1.92	0.51
2:0B:271:SER:OG	2:0B:377:MET:HB3	2.10	0.51
2:0F:63:PRO:HB2	2:0F:65:CYS:SG	2.51	0.51
2:0F:156:ARG:HA	2:0F:159:VAL:HG12	1.92	0.51
2:0H:109:THR:HB	2:0H:110:ILE:HD12	1.91	0.51
1:0I:31:ASP:OD1	1:0I:35:THR:N	2.27	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0U:77:ARG:HH21	1:0U:90:PHE:HD2	1.56	0.51
1:0U:398:TYR:HB3	1:0U:403:MET:HE3	1.93	0.51
2:0V:305:CYS:HB3	2:0V:387:ILE:HD11	1.92	0.51
1:1E:210:ILE:O	1:1E:214:THR:OG1	2.23	0.51
2:1L:175:PRO:HB3	2:1L:390:ARG:HE	1.75	0.51
1:1S:3:GLU:HB2	1:1S:130:LEU:HA	1.92	0.51
1:1S:172:SER:OG	1:1S:380:ARG:NH2	2.40	0.51
1:1U:114:ASP:N	1:1U:114:ASP:OD1	2.41	0.51
1:1W:404:ASP:HB3	1:1W:406:MET:SD	2.49	0.51
2:1Z:384:ILE:HD12	2:1Z:384:ILE:H	1.75	0.51
1:2A:2:ARG:HB3	1:2A:131:GLN:HB2	1.92	0.51
1:2G:2:ARG:HB3	1:2G:131:GLN:HB2	1.92	0.51
1:2G:69:GLU:C	1:2G:92:PHE:HZ	2.14	0.51
1:2K:49:VAL:HG11	1:2K:241:ARG:HG2	1.92	0.51
1:2M:123:GLU:O	1:2M:126:SER:OG	2.28	0.51
2:2N:217:LEU:HD11	2:2N:367:ASP:HB3	1.92	0.51
1:2Q:306:ARG:HD3	38:8A:96:GLY:CA	2.21	0.51
2:2T:261:PRO:HG3	2:2T:313:MET:HE2	1.92	0.51
1:2U:212:PHE:CE1	2:2V:326:LYS:HD3	2.46	0.51
1:2U:273:LEU:H	1:2U:292:GLN:HE22	1.59	0.51
1:2W:297:LYS:HZ3	38:8B:46:ALA:HB3	1.75	0.51
1:2Y:340:TYR:HE2	38:8C:95:LYS:O	1.91	0.51
1:3A:274:THR:HG23	1:3A:282:ARG:HH11	1.75	0.51
2:3F:72:PRO:HG3	1:3G:1:MET:HG2	1.91	0.51
2:3N:127:ASP:OD2	3:4D:125:TYR:OH	2.26	0.51
1:3Q:94:GLN:NE2	3:4H:139:SER:O	2.44	0.51
1:3Q:316:LEU:HD13	1:3Q:352:SER:HB2	1.92	0.51
1:3S:99:ASN:ND2	2:3T:254:GLU:OE1	2.43	0.51
2:3T:50:ASN:O	2:3T:64:ARG:NH2	2.44	0.51
2:3T:276:ILE:HG23	2:3T:280:LYS:HB2	1.93	0.51
2:3T:296:PHE:HE2	2:3T:335:ILE:HD13	1.74	0.51
3:3Z:35:CYS:SG	3:3Z:36:PHE:N	2.83	0.51
3:4F:35:CYS:SG	3:4F:36:PHE:N	2.83	0.51
5:4M:293:LEU:CB	28:7X:306:LEU:HD23	2.40	0.51
10:5A:292:GLU:O	10:5A:296:ILE:HG12	2.11	0.51
10:5C:233:GLU:O	10:5C:237:GLN:HG3	2.09	0.51
14:5M:354:GLU:HA	14:5M:369:LEU:HB3	1.92	0.51
15:5O:145:PHE:CE1	15:5O:200:LYS:NZ	2.77	0.51
15:5P:176:ILE:O	15:5P:191:SER:OG	2.28	0.51
19:6E:20:LEU:HD22	19:6E:24:TRP:CD2	2.46	0.51
22:6J:323:ASP:OD1	22:6J:324:LYS:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:6N:291:GLU:HB2	22:6N:347:CYS:SG	2.50	0.51
24:6U:505:LYS:HB3	24:6U:506:PRO:HD2	1.92	0.51
24:6X:451:LYS:HD2	24:6X:468:ARG:HH12	0.34	0.51
34:7R:153:LEU:HD12	35:7T:101:LEU:HD23	1.92	0.51
36:7V:90:GLU:O	36:7V:92:ARG:NH2	2.44	0.51
2:G5:65:CYS:SG	2:G5:66:ILE:N	2.83	0.51
2:G5:69:ASP:OD1	2:G5:70:LEU:N	2.43	0.51
1:G6:391:ARG:HH11	2:G7:346:TRP:HE1	1.57	0.51
2:G7:7:ILE:HG22	2:G7:66:ILE:HB	1.91	0.51
2:G7:306:ASP:OD2	2:G7:309:HIS:N	2.44	0.51
1:G8:214:THR:O	1:G8:275:SER:OG	2.29	0.51
2:H3:170:THR:OG1	2:H3:203:MET:SD	2.69	0.51
1:I0:218:THR:CB	24:6X:489:ASN:CA	2.89	0.51
2:I1:69:ASP:OD1	2:I1:70:LEU:N	2.42	0.51
2:I1:116:ASP:N	2:I1:116:ASP:OD1	2.42	0.51
2:I5:391:LEU:HA	2:I5:394:LYS:HE3	1.92	0.51
2:I7:227:LEU:O	2:I7:231:ILE:HG12	2.10	0.51
1:J4:203:ASP:N	1:J4:203:ASP:OD1	2.41	0.51
2:J5:176:GLN:NE2	2:J5:207:GLU:OE1	2.44	0.51
1:J8:112:LEU:O	1:J8:115:SER:OG	2.23	0.51
2:J9:28:HIS:O	2:J9:40:LYS:NZ	2.40	0.51
2:K3:80:THR:HB	29:7I:167:ILE:HB	1.93	0.51
2:K5:90:GLU:H	2:M1:283:HIS:CE1	2.28	0.51
1:K8:396:HIS:HA	1:K8:399:THR:OG1	2.10	0.51
2:K9:281:ALA:C	2:K9:283:HIS:N	2.63	0.51
2:L5:147:SER:HB2	2:L5:190:SER:OG	2.09	0.51
2:L9:9:ILE:HD11	2:L9:153:LEU:HD23	1.92	0.51
2:M5:392:ASP:OD2	2:M5:422:ARG:NH1	2.43	0.51
2:N7:88:HIS:NE2	2:N7:90:GLU:HB2	2.25	0.51
1:O2:317:PHE:HB3	1:O2:321:MET:HE1	1.91	0.51
2:O5:50:ASN:ND2	37:7Y:17:GLU:OE2	2.43	0.51
2:O7:100:ALA:HA	1:O8:252:LYS:HE3	1.93	0.51
1:P4:113:ILE:HD11	1:P4:151:LEU:HD13	1.93	0.51
1:P4:170:VAL:HG11	1:P4:377:MET:CE	2.39	0.51
2:P5:72:PRO:HD2	1:P6:2:ARG:NH1	2.26	0.51
2:P5:98:ASP:N	2:P5:98:ASP:OD1	2.40	0.51
1:P6:391:ARG:HG3	2:P7:346:TRP:NE1	2.25	0.51
2:Q3:27:GLU:OE1	2:Q3:243:ARG:NH1	2.43	0.51
2:Q9:195:LEU:HD21	2:Q9:264:ARG:HH21	1.74	0.51
1:R0:95:THR:HG21	1:R0:108:GLU:HG2	1.93	0.51
2:R3:5:ILE:HG22	2:R3:64:ARG:HB3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R6:19:LYS:HA	1:R6:22:GLU:OE1	2.09	0.51
1:R6:193:VAL:HG23	1:R6:194:GLU:HG2	1.91	0.51
2:R7:145:THR:HG23	2:R7:149:LEU:HD21	1.93	0.51
2:R7:166:LYS:N	2:R7:199:ASP:OD2	2.41	0.51
1:R8:121:ARG:NH2	1:R8:158:GLU:OE2	2.40	0.51
1:S0:273:LEU:H	1:S0:292:GLN:HE22	1.59	0.51
1:S2:80:PRO:HB3	12:5F:9:GLY:HA3	1.92	0.51
1:S6:139:LEU:HD12	1:S6:170:VAL:HG12	1.91	0.51
1:T0:287:PRO:HD3	1:T0:325:GLU:OE2	2.10	0.51
2:T5:430:LYS:HE2	17:5U:23:HIS:HB2	1.91	0.51
2:U1:363:VAL:HG23	2:U1:366:GLY:HA3	1.93	0.51
1:U8:22:GLU:HG2	1:U8:81:TYR:HB2	1.93	0.51
1:V6:50:TYR:HE2	1:V6:241:ARG:HE	1.57	0.51
2:W1:60:LYS:NZ	2:W1:86:LEU:HA	2.26	0.51
2:W1:89:PRO:HD3	2:X7:283:HIS:CG	2.46	0.51
2:W5:108:TYR:HA	2:W5:112:LYS:HE3	1.91	0.51
2:W5:331:SER:O	2:W5:334:THR:OG1	2.21	0.51
1:W8:11:GLN:N	39:W8:503:GDP:O2B	2.43	0.51
2:W9:88:HIS:CE1	2:W9:90:GLU:HB2	2.46	0.51
2:X5:358:GLN:NE2	2:X5:359:PRO:O	2.43	0.51
1:X6:238:CYS:SG	1:X6:316:LEU:HD21	2.50	0.51
1:X8:344:TRP:CE3	1:X8:345:ILE:HG13	2.45	0.51
2:X9:422:ARG:NH1	2:X9:426:ALA:HB2	2.25	0.51
2:Y5:90:GLU:O	2:Y5:121:ARG:NH1	2.43	0.51
1:Z0:11:GLN:NE2	39:Z0:502:GDP:O1A	2.43	0.51
1:Z4:252:LYS:HE2	1:Z4:350:LYS:CE	2.41	0.51
1:Z6:83:GLN:N	1:Z6:83:GLN:OE1	2.44	0.51
2:Z7:221:ARG:HB3	1:Z8:322:SER:HB2	1.93	0.51
1:0E:244:GLY:HA3	1:0E:354:CYS:HA	1.91	0.51
2:0F:221:ARG:HB3	1:0G:322:SER:OG	2.10	0.51
1:0I:382:SER:HB3	1:0I:415:MET:HG2	1.91	0.51
1:0K:183:TYR:CE1	1:0K:388:MET:HB3	2.45	0.51
2:0L:170:THR:HG21	2:0L:194:LEU:HD11	1.93	0.51
2:0L:312:TYR:CE2	2:0L:341:ILE:HG21	2.46	0.51
1:0U:113:ILE:HG13	1:0U:150:LEU:HD22	1.93	0.51
1:0U:128:ASP:OD1	1:0U:129:CYS:N	2.40	0.51
1:0W:396:HIS:CE1	1:0W:397:TRP:CE2	2.99	0.51
1:0Y:257:LEU:HD21	1:0Y:314:SER:HB3	1.93	0.51
2:1D:245:ASP:N	2:1D:245:ASP:OD2	2.42	0.51
1:1G:114:ASP:N	1:1G:114:ASP:OD1	2.40	0.51
2:1L:90:GLU:C	2:1L:121:ARG:HH12	2.14	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1W:3:GLU:HG3	1:1W:127:CYS:HB3	1.92	0.51
2:2B:287:SER:OG	2:2B:288:VAL:N	2.42	0.51
1:2C:135:VAL:HG21	1:2C:152:ILE:HD11	1.92	0.51
1:2G:177:ASP:O	2:2H:352:LYS:HA	2.10	0.51
1:2M:122:LYS:HE3	1:3C:291:GLN:HB3	1.93	0.51
1:2M:134:GLN:HE21	1:2M:167:PHE:HE2	1.57	0.51
2:2P:174:SER:OG	2:2P:207:GLU:OE1	2.19	0.51
1:2Q:31:ASP:OD1	1:2Q:35:THR:N	2.38	0.51
1:2S:130:LEU:HB2	1:2S:162:ARG:HE	1.75	0.51
1:2W:325:GLU:HG2	38:8B:57:LEU:HD23	1.92	0.51
1:2Y:309:ARG:NH1	1:2Y:341:PHE:O	2.44	0.51
1:2Y:340:TYR:CZ	38:8C:95:LYS:O	2.62	0.51
2:2Z:183:GLU:HG3	2:2Z:184:PRO:HD3	1.92	0.51
2:3F:211:ASP:OD1	2:3F:214:ARG:NH2	2.43	0.51
2:3P:287:SER:OG	2:3P:288:VAL:N	2.43	0.51
4:3W:22:LEU:N	3:3X:258:ASP:OD2	2.40	0.51
3:4B:16:ASN:HD22	3:4B:22:LYS:HD2	1.75	0.51
3:4J:176:ALA:O	3:4J:180:VAL:HG23	2.10	0.51
6:4O:454:LEU:O	6:4O:457:GLU:HG3	2.11	0.51
12:5F:161:ARG:HG2	24:6X:46:ALA:HB1	1.93	0.51
14:5L:55:HIS:CE1	14:5L:86:ILE:HD13	2.45	0.51
14:5M:55:HIS:CE1	14:5M:86:ILE:HD13	2.45	0.51
14:5M:395:SER:O	14:5M:411:PRO:HD3	2.11	0.51
14:5N:55:HIS:CE1	14:5N:86:ILE:HD13	2.45	0.51
15:5O:67:THR:HA	15:5O:72:GLN:HA	1.92	0.51
21:6H:79:VAL:HG21	21:6H:91:THR:OG1	2.11	0.51
22:6I:31:TYR:O	22:6I:32:LYS:HG3	2.10	0.51
22:6K:31:TYR:O	22:6K:32:LYS:HG3	2.11	0.51
22:6P:278:GLN:O	22:6P:282:LYS:HG2	2.10	0.51
23:6R:62:GLN:NE2	23:6R:63:PRO:O	2.43	0.51
24:6U:32:THR:OG1	24:6U:47:GLN:O	2.28	0.51
24:6V:213:TYR:HH	24:6V:217:PHE:HE2	1.57	0.51
24:6Y:14:TYR:N	24:6Y:14:TYR:HD2	2.09	0.51
24:6Z:117:ARG:NH1	24:6Z:134:GLU:OE2	2.43	0.51
27:7G:165:PHE:O	27:7G:169:SER:HB3	2.11	0.51
32:7P:89:ASN:OD1	32:7P:90:GLN:N	2.38	0.51
38:8D:209:HIS:CD2	38:8D:209:HIS:N	2.77	0.51
2:8:279:GLU:HG3	26:7E:82:PRO:HG2	1.92	0.51
1:9:39:ASP:O	26:7E:25:TYR:CD2	2.64	0.51
2:A4:282:TYR:OH	24:6Z:89:VAL:HG21	2.09	0.51
1:G2:8:GLN:CD	1:G2:17:GLY:HA3	2.31	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G5:398:MET:HG2	1:G6:345:ILE:HG12	1.92	0.51
2:G9:90:GLU:O	2:G9:121:ARG:NH1	2.35	0.51
2:G9:223:THR:H	2:G9:226:ASN:ND2	2.07	0.51
2:H3:9:ILE:HG12	2:H3:68:LEU:HD21	1.93	0.51
1:H4:72:THR:O	1:H4:76:VAL:HG23	2.09	0.51
2:H7:14:ILE:HD11	2:H7:74:VAL:HG13	1.93	0.51
2:H7:66:ILE:HG13	2:H7:66:ILE:O	2.11	0.51
1:I0:219:THR:HG23	24:6X:488:ARG:CG	2.41	0.51
2:I1:176:GLN:HE22	2:I1:304:LYS:HE2	1.75	0.51
2:K5:119:LEU:HA	2:K5:122:ILE:HG22	1.92	0.51
2:L1:297:GLU:OE1	2:L1:298:PRO:HD2	2.10	0.51
1:L4:113:ILE:HD11	1:L4:151:LEU:HD13	1.93	0.51
2:L7:210:TYR:HE1	2:L7:227:LEU:HD11	1.76	0.51
2:L9:73:THR:HA	1:M0:46:ARG:HH21	1.76	0.51
2:M1:72:PRO:HG3	1:M2:1:MET:HG2	1.92	0.51
2:N3:203:MET:HE3	2:N3:267:PHE:HD1	1.75	0.51
2:N5:9:ILE:HG22	2:N5:146:GLY:HA2	1.93	0.51
2:N5:222:PRO:HD2	1:N6:324:LYS:HE3	1.91	0.51
2:N7:388:PHE:HB3	2:N7:425:LEU:HD21	1.91	0.51
2:N9:177:VAL:HB	2:N9:207:GLU:HG3	1.92	0.51
2:O1:276:ILE:HG23	2:O1:280:LYS:HB2	1.92	0.51
2:O1:408:TYR:HB3	2:O1:413:MET:HE2	1.91	0.51
1:O2:393:ALA:O	1:O2:394:PHE:HB2	2.10	0.51
2:O3:280:LYS:HD3	37:7Y:87:VAL:HG11	1.91	0.51
2:P5:41:THR:HA	27:7G:221:PRO:HA	1.93	0.51
2:P9:259:LEU:HD11	2:P9:316:CYS:HB2	1.91	0.51
1:Q2:33:THR:O	1:Q2:58:ARG:NH2	2.44	0.51
1:Q2:248:ALA:HA	1:Q2:252:LYS:HD2	1.92	0.51
2:Q5:194:LEU:O	2:Q5:198:THR:HG22	2.11	0.51
1:Q8:99:ASN:ND2	2:Q9:254:GLU:OE1	2.43	0.51
2:Q9:274:PRO:HB2	2:Q9:276:ILE:HG12	1.93	0.51
2:R3:18:ASN:HD21	21:6G:59:GLN:HE21	1.58	0.51
2:R3:210:TYR:HH	1:R4:323:THR:HG1	1.57	0.51
2:R5:415:GLU:OE1	17:5T:73:PRO:HG3	2.09	0.51
1:R8:249:ASP:OD1	1:R8:252:LYS:N	2.34	0.51
1:S4:260:PHE:HB2	1:S4:263:LEU:HD23	1.92	0.51
1:S4:267:MET:SD	1:S4:303:ALA:HB3	2.51	0.51
2:S5:5:ILE:HD11	2:S5:135:PHE:CE2	2.45	0.51
1:T0:173:PRO:HA	1:T0:176:SER:OG	2.10	0.51
1:T4:31:ASP:OD1	1:T4:35:THR:N	2.36	0.51
2:U5:279:GLU:HB3	2:U5:283:HIS:NE2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U7:121:ARG:HD2	2:U7:125:LEU:HG	1.91	0.51
1:U8:153:SER:O	1:U8:157:GLU:HG2	2.10	0.51
1:V0:3:GLU:HG2	1:V0:127:CYS:SG	2.49	0.51
1:V2:232:VAL:HG13	1:V2:268:VAL:HG11	1.92	0.51
1:V8:121:ARG:NH2	1:V8:158:GLU:OE2	2.42	0.51
1:V8:309:ARG:NH1	1:V8:341:PHE:O	2.44	0.51
1:W2:67:ASP:N	1:W2:67:ASP:OD1	2.44	0.51
2:W9:274:PRO:HD3	2:W9:374:ALA:HA	1.92	0.51
1:X4:178:THR:OG1	2:X5:258:ASN:OD1	2.28	0.51
2:X9:279:GLU:OE1	2:X9:279:GLU:N	2.43	0.51
1:Y0:232:VAL:HG11	1:Y0:268:VAL:HG11	1.93	0.51
1:Y0:325:GLU:O	1:Y0:329:GLN:HG2	2.10	0.51
2:Y1:70:LEU:HB2	2:Y1:98:ASP:HA	1.91	0.51
1:Y4:30:ILE:HD12	1:Y4:59:TYR:HD2	1.75	0.51
1:Y8:139:LEU:HD21	1:Y8:168:SER:HB2	1.92	0.51
1:Z0:206:ALA:O	1:Z0:210:ILE:HG12	2.11	0.51
2:Z3:181:VAL:HG12	1:Z4:347:ASN:O	2.11	0.51
2:Z3:394:LYS:HD2	1:Z4:346:PRO:HG3	1.91	0.51
1:Z4:83:GLN:O	1:0K:281:TYR:OH	2.17	0.51
1:Z6:414:ASN:HA	1:Z6:417:ASP:OD2	2.11	0.51
2:Z9:338:LYS:HZ3	2:Z9:339:ARG:H	1.57	0.51
1:0I:21:TRP:CZ3	1:0I:61:PRO:HB3	2.45	0.51
1:0I:358:PRO:HG2	1:0I:361:LEU:HD13	1.92	0.51
1:0K:135:VAL:HG11	1:0K:152:ILE:HD11	1.92	0.51
1:0K:384:GLN:O	1:0K:388:MET:HE2	2.11	0.51
2:0R:174:SER:HB2	2:0R:177:VAL:O	2.11	0.51
1:0W:212:PHE:HZ	2:0X:326:LYS:HB2	1.76	0.51
1:1A:242:PHE:CD1	1:1A:356:ILE:HG13	2.45	0.51
1:1E:179:VAL:HG22	2:1F:258:ASN:HD22	1.76	0.51
1:1E:246:LEU:HD22	1:1E:352:SER:HA	1.93	0.51
1:1E:311:LEU:HD23	1:1E:312:THR:HG23	1.93	0.51
1:1G:39:ASP:OD1	1:1G:39:ASP:N	2.44	0.51
1:1G:207:LEU:HB3	1:1G:225:LEU:HD22	1.92	0.51
2:1L:92:LEU:N	2:1L:92:LEU:HD23	2.25	0.51
2:1N:2:ARG:HA	2:1N:133:GLN:HE21	1.75	0.51
1:1O:248:ALA:HB1	1:1O:252:LYS:HD3	1.93	0.51
1:1S:2:ARG:HB3	1:1S:131:GLN:HB2	1.93	0.51
1:1S:244:GLY:H	1:1S:247:ASN:HD21	1.59	0.51
1:1W:186:THR:HG22	1:1W:411:ALA:HB1	1.92	0.51
2:1X:145:THR:OG1	41:1X:501:GTP:O1B	2.28	0.51
1:2M:220:PRO:HG2	2:2N:326:LYS:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2P:129:CYS:SG	2:2P:130:THR:N	2.84	0.51
2:2R:181:VAL:HG12	1:2S:347:ASN:O	2.11	0.51
2:2V:334:THR:HA	2:2V:337:THR:HG22	1.93	0.51
1:3C:3:GLU:HB2	1:3C:130:LEU:HA	1.93	0.51
1:3I:260:PHE:HB2	1:3I:263:LEU:HD23	1.93	0.51
2:3L:296:PHE:CE2	2:3L:335:ILE:HD13	2.45	0.51
1:3M:292:GLN:HG2	1:3M:298:ASN:HD22	1.76	0.51
1:3S:203:ASP:O	1:3S:207:LEU:HG	2.10	0.51
3:4F:16:ASN:HD22	3:4F:22:LYS:HD2	1.75	0.51
5:4L:281:GLU:O	5:4L:284:LEU:HG	2.10	0.51
5:4M:111:ALA:O	5:4M:115:THR:HG23	2.11	0.51
6:4O:212:ALA:O	6:4O:215:LEU:HG	2.10	0.51
9:4Z:66:VAL:HA	9:4Z:69:ASP:OD2	2.11	0.51
12:5F:304:ARG:HB3	12:5F:356:THR:HB	1.91	0.51
14:5L:395:SER:O	14:5L:411:PRO:HD3	2.11	0.51
14:5M:219:LEU:CD1	14:5M:228:PHE:HE2	2.18	0.51
14:5N:395:SER:O	14:5N:411:PRO:HD3	2.11	0.51
22:6O:208:ARG:O	22:6O:212:GLU:HG2	2.10	0.51
23:6Q:62:GLN:NE2	23:6Q:63:PRO:O	2.43	0.51
23:6S:62:GLN:NE2	23:6S:63:PRO:O	2.43	0.51
24:6T:97:ARG:H	24:6T:188:THR:CG2	2.21	0.51
24:6T:117:ARG:NH1	24:6T:134:GLU:OE2	2.42	0.51
24:6V:503:ILE:HG21	24:6V:525:VAL:HG22	1.91	0.51
24:6Y:452:MET:HA	24:6Y:530:PHE:HA	1.92	0.51
25:7C:110:ARG:NH1	30:7K:251:LYS:HD3	2.25	0.51
36:7W:90:GLU:O	36:7W:92:ARG:NH2	2.44	0.51
38:8B:44:ARG:HB2	38:8B:47:PHE:CD2	2.45	0.51
1:A1:420:SER:OG	3:4F:209:ARG:NH1	2.44	0.51
1:A5:423:GLN:HE22	3:4J:109:ALA:N	2.08	0.51
2:G3:90:GLU:HB2	2:G3:121:ARG:HH22	1.75	0.51
1:G4:28:HIS:NE2	1:G4:241:ARG:HD2	2.26	0.51
2:G5:227:LEU:O	2:G5:231:ILE:HG13	2.11	0.51
2:H1:167:LEU:HD23	2:H1:200:VAL:HB	1.93	0.51
2:H1:254:GLU:HB3	2:H1:258:ASN:HD21	1.75	0.51
2:H1:379:SER:OG	2:H1:380:ASN:N	2.43	0.51
1:I0:64:ILE:HD11	1:I0:123:GLU:HG3	1.91	0.51
1:I0:207:LEU:HB3	1:I0:225:LEU:HD22	1.91	0.51
2:I5:181:VAL:HG13	2:I5:182:VAL:HG23	1.92	0.51
2:J1:21:TRP:CZ3	2:J1:63:PRO:HB3	2.45	0.51
2:J3:246:GLY:HA3	2:J3:356:ASN:HA	1.92	0.51
2:J3:280:LYS:HA	2:J3:283:HIS:HB3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J5:22:GLU:O	2:J5:26:LEU:HG	2.10	0.51
1:K0:391:ARG:HB3	2:K1:346:TRP:CZ3	2.46	0.51
1:K6:117:LEU:HA	1:K6:120:VAL:HG12	1.92	0.51
2:L3:84:ARG:NH2	29:7J:345:PRO:HD3	2.26	0.51
1:M0:244:GLY:H	1:M0:247:ASN:HD21	1.58	0.51
2:M7:30:ILE:HG12	2:M7:36:MET:SD	2.50	0.51
1:M8:358:PRO:HG2	1:M8:361:LEU:HD12	1.92	0.51
2:M9:39:ASP:OD1	2:M9:40:LYS:N	2.44	0.51
2:M9:66:ILE:HG13	2:M9:66:ILE:O	2.10	0.51
2:N3:2:ARG:HA	2:N3:133:GLN:HE21	1.75	0.51
2:N5:11:GLN:NE2	1:N6:245:GLN:O	2.43	0.51
1:O0:396:HIS:H	1:O0:396:HIS:CD2	2.28	0.51
1:O2:79:GLY:HA3	37:7Y:191:ARG:NH2	2.19	0.51
1:P4:8:GLN:CD	1:P4:17:GLY:HA3	2.31	0.51
2:P7:65:CYS:SG	2:P7:66:ILE:N	2.84	0.51
2:P7:66:ILE:O	2:P7:66:ILE:HG13	2.10	0.51
1:Q2:176:SER:HB3	2:Q3:349:THR:HG23	1.93	0.51
1:Q6:117:LEU:HA	1:Q6:120:VAL:HG12	1.93	0.51
1:R0:183:TYR:OH	1:R0:388:MET:HB3	2.10	0.51
2:R3:55:GLU:HG2	2:R3:61:HIS:CE1	2.46	0.51
2:R3:216:SER:OG	2:R3:217:LEU:N	2.43	0.51
1:R6:362:LYS:HB2	7:4R:174:HIS:CE1	2.46	0.51
2:R7:402:ARG:HB3	2:R7:405:VAL:HG11	1.92	0.51
1:R8:62:ARG:HG3	1:R8:123:GLU:OE2	2.11	0.51
1:R8:371:SER:OG	1:R8:372:THR:N	2.44	0.51
1:S0:156:ARG:NH1	1:S0:197:ASP:OD1	2.43	0.51
2:S5:201:ALA:O	2:S5:268:MET:HE2	2.11	0.51
2:S5:278:ALA:HA	2:S5:369:ALA:HB2	1.93	0.51
2:S5:305:CYS:HB3	2:S5:387:ILE:HD11	1.92	0.51
1:T0:371:SER:OG	1:T0:372:THR:N	2.43	0.51
1:T6:135:VAL:HG11	1:T6:152:ILE:HD11	1.93	0.51
1:U2:201:VAL:HG12	1:U2:266:PHE:O	2.10	0.51
2:U5:9:ILE:HG22	2:U5:146:GLY:HA2	1.93	0.51
2:U7:363:VAL:HG23	2:U7:366:GLY:HA3	1.92	0.51
1:U8:166:THR:OG1	1:U8:199:CYS:SG	2.69	0.51
1:V0:3:GLU:OE1	1:V0:62:ARG:NH1	2.44	0.51
2:V3:379:SER:OG	2:V3:380:ASN:N	2.43	0.51
1:V4:7:ILE:HB	1:V4:135:VAL:HG22	1.93	0.51
1:V8:317:PHE:HB3	1:V8:321:MET:SD	2.51	0.51
1:W2:22:GLU:HG2	1:W2:81:TYR:HB2	1.92	0.51
2:W3:384:ILE:HA	2:W3:387:ILE:HD12	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X0:6:HIS:NE2	1:X0:136:CYS:SG	2.70	0.51
2:X5:52:PHE:CZ	2:X5:239:THR:HG21	2.42	0.51
2:X9:5:ILE:HD11	2:X9:135:PHE:CE1	2.46	0.51
2:X9:255:PHE:HB3	2:X9:259:LEU:HD12	1.91	0.51
1:Y0:49:VAL:HG11	1:Y0:241:ARG:HG2	1.91	0.51
1:Y0:165:LEU:HD11	1:Y0:200:MET:SD	2.50	0.51
2:Y5:31:GLN:HB2	2:Y5:33:ASP:OD1	2.11	0.51
1:Y6:2:ARG:HH21	1:Y6:240:LEU:HA	1.76	0.51
1:Y6:86:ARG:HG2	1:Y6:88:ASP:H	1.75	0.51
1:Y8:247:ASN:O	1:Y8:252:LYS:NZ	2.43	0.51
2:Z1:287:SER:OG	2:Z1:288:VAL:N	2.44	0.51
1:Z2:135:VAL:HB	1:Z2:166:THR:HG22	1.93	0.51
1:Z6:138:SER:HA	1:Z6:169:VAL:HG22	1.92	0.51
2:Z7:302:MET:N	2:Z7:302:MET:SD	2.83	0.51
1:0E:31:ASP:OD1	1:0E:35:THR:N	2.23	0.51
1:0E:198:GLU:HA	1:0E:264:HIS:HD2	1.76	0.51
1:0M:287:PRO:HA	1:0M:290:THR:HG22	1.91	0.51
1:0Q:52:ASN:OD1	1:0Q:62:ARG:NH2	2.43	0.51
2:0R:213:CYS:HA	2:0R:217:LEU:HB2	1.92	0.51
2:0V:167:LEU:HB3	2:0V:169:PHE:CE1	2.45	0.51
2:0V:312:TYR:O	2:0V:344:VAL:HG13	2.09	0.51
1:0W:67:ASP:OD1	1:0W:68:LEU:N	2.43	0.51
1:0W:364:SER:OG	1:0W:365:ALA:N	2.43	0.51
2:0Z:182:VAL:HG23	2:0Z:186:ASN:ND2	2.25	0.51
2:0Z:305:CYS:HB3	2:0Z:387:ILE:HD11	1.92	0.51
2:1D:274:PRO:HB2	2:1D:276:ILE:HG12	1.93	0.51
1:1E:235:GLY:HA3	1:1E:366:THR:HG21	1.93	0.51
2:1Z:53:PHE:HB3	2:1Z:61:HIS:HB3	1.91	0.51
2:1Z:262:TYR:HD1	2:1Z:265:ILE:H	1.57	0.51
2:2D:287:SER:N	2:2D:290:GLU:OE2	2.42	0.51
2:2H:278:ALA:HA	2:2H:369:ALA:HB2	1.92	0.51
2:2P:282:TYR:CZ	10:5C:163:ARG:HB3	2.46	0.51
1:2U:208:TYR:CE1	1:2U:225:LEU:HD11	2.44	0.51
1:3A:375:GLN:HB2	1:3A:419:VAL:HG13	1.93	0.51
2:3J:399:TYR:O	2:3J:402:ARG:NH1	2.43	0.51
2:3T:328:VAL:O	2:3T:332:VAL:HG13	2.11	0.51
3:3X:16:ASN:HD22	3:3X:22:LYS:HD2	1.75	0.51
4:4G:23:GLU:OE1	23:6S:7:VAL:HG21	2.10	0.51
3:4J:134:VAL:HG12	3:4J:136:HIS:H	1.76	0.51
5:4M:91:LEU:HD13	30:7K:109:TRP:CZ3	2.46	0.51
9:4Z:39:TRP:HH2	14:5L:524:GLN:OE1	1.94	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:5A:360:GLN:HG3	10:5A:363:ARG:HH12	1.76	0.51
20:6F:8:ASN:OD1	20:6F:9:ALA:N	2.43	0.51
22:6P:210:MET:O	22:6P:214:PHE:HD2	1.94	0.51
22:6P:283:ILE:HD12	22:6P:350:PHE:CG	2.46	0.51
31:7N:29:GLU:HG3	31:7N:30:TYR:N	2.26	0.51
35:7T:122:LYS:O	35:7T:126:THR:HG23	2.11	0.51
38:8A:8:GLU:OE1	38:8A:8:GLU:N	2.33	0.51
1:3:423:GLN:NE2	3:3X:107:ALA:O	2.43	0.51
1:A3:41:ASP:H	26:7F:122:VAL:CG2	2.22	0.51
1:A5:280:GLN:HE22	1:T8:58:ARG:HG2	1.74	0.51
1:B5:79:GLY:HA3	24:6X:221:ARG:HH22	1.74	0.51
1:C2:39:ASP:O	18:6D:119:ARG:NH1	2.43	0.51
1:D2:204:ASN:HD21	39:D2:501:GDP:HN22	1.59	0.51
2:G1:305:CYS:HB3	2:G1:387:ILE:HD11	1.92	0.51
2:G3:27:GLU:CD	2:G3:243:ARG:HH12	2.14	0.51
2:G3:155:GLU:HB2	2:G3:197:HIS:CE1	2.45	0.51
2:G3:252:ILE:HD12	2:G3:255:PHE:HE2	1.75	0.51
2:G3:255:PHE:HE1	2:G3:316:CYS:HG	1.57	0.51
2:G7:182:VAL:HG23	2:G7:186:ASN:ND2	2.24	0.51
1:G8:287:PRO:HA	1:G8:290:THR:HG22	1.93	0.51
2:G9:336:LYS:O	2:G9:339:ARG:NH2	2.43	0.51
1:H4:389:PHE:O	1:H4:392:LYS:NZ	2.33	0.51
2:H7:56:THR:HA	2:J3:285:GLN:HB2	1.93	0.51
1:I0:364:SER:OG	1:I0:365:ALA:N	2.42	0.51
1:I2:178:THR:HG23	1:I2:181:GLU:HG3	1.93	0.51
1:I4:335:ASN:O	1:I4:338:SER:OG	2.29	0.51
2:J1:27:GLU:OE1	2:J1:243:ARG:NH1	2.38	0.51
2:K1:205:ASP:OD1	2:K1:303:VAL:HG13	2.11	0.51
1:K8:135:VAL:HG21	1:K8:152:ILE:HD11	1.93	0.51
1:L4:186:THR:HG22	1:L4:411:ALA:HB1	1.93	0.51
2:L5:267:PHE:HB2	2:L5:384:ILE:HD12	1.92	0.51
1:L6:125:GLU:OE2	1:L6:159:TYR:OH	2.27	0.51
2:M5:58:ALA:HB2	37:7Y:214:ASP:CB	2.41	0.51
1:M8:361:LEU:HA	30:7K:41:TRP:CE3	2.45	0.51
2:M9:8:HIS:HB2	2:M9:14:ILE:HG22	1.92	0.51
1:N0:177:ASP:OD1	2:N1:248:LEU:HD11	2.10	0.51
2:N5:332:VAL:HA	2:N5:335:ILE:HD12	1.93	0.51
1:N8:8:GLN:CD	1:N8:17:GLY:HA3	2.30	0.51
2:O1:62:VAL:O	2:O1:62:VAL:HG23	2.10	0.51
1:O8:405:GLU:N	1:O8:405:GLU:OE1	2.43	0.51
2:P3:240:ALA:HB1	2:P3:356:ASN:HD22	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P9:47:ASP:OD2	2:P9:50:ASN:HB2	2.10	0.51
2:Q1:166:LYS:N	2:Q1:199:ASP:OD2	2.43	0.51
2:Q1:297:GLU:N	2:Q1:297:GLU:OE1	2.43	0.51
1:R0:156:ARG:NH1	1:R0:197:ASP:OD2	2.43	0.51
2:R5:121:ARG:CZ	2:R5:124:LYS:HE3	2.40	0.51
2:S1:14:ILE:HD11	2:S1:74:VAL:HG13	1.92	0.51
2:S5:69:ASP:OD2	2:S5:70:LEU:N	2.41	0.51
2:S5:250:VAL:HG11	2:S5:352:LYS:NZ	2.26	0.51
1:T0:45:GLU:HG3	1:T0:46:ARG:HG2	1.92	0.51
1:T6:260:PHE:HB2	1:T6:263:LEU:HD23	1.93	0.51
2:U3:379:SER:OG	2:U3:380:ASN:N	2.43	0.51
2:V1:333:ALA:O	2:V1:337:THR:HG23	2.10	0.51
2:V3:122:ILE:HD13	2:V3:157:LEU:HD21	1.91	0.51
2:V7:72:PRO:HD2	1:V8:2:ARG:HH12	1.75	0.51
2:W1:88:HIS:HB3	2:W1:91:GLN:HG3	1.92	0.51
1:W4:414:ASN:HA	1:W4:417:ASP:OD2	2.11	0.51
1:W6:248:ALA:HA	1:W6:252:LYS:HD3	1.93	0.51
2:W7:109:THR:OG1	2:W7:411:GLU:OE2	2.23	0.51
2:W9:292:THR:HG22	2:W9:319:TYR:OH	2.11	0.51
2:X3:33:ASP:OD2	2:X3:35:GLN:NE2	2.43	0.51
2:X3:76:ASP:HA	2:X3:79:ARG:HB2	1.92	0.51
2:X3:208:ALA:O	2:X3:212:ILE:HG12	2.11	0.51
2:Y1:9:ILE:HG12	2:Y1:68:LEU:HD21	1.93	0.51
1:Y2:327:ASP:N	1:Y2:327:ASP:OD2	2.42	0.51
1:Z4:325:GLU:HA	1:Z4:328:GLU:HG3	1.92	0.51
2:Z5:3:GLU:HB2	2:Z5:129:CYS:SG	2.51	0.51
2:Z5:191:THR:HA	2:Z5:194:LEU:HB3	1.93	0.51
1:Z6:418:LEU:O	1:Z6:421:GLU:HG2	2.10	0.51
2:0L:285:GLN:OE1	2:0L:287:SER:OG	2.27	0.51
1:0M:268:VAL:O	1:0M:300:MET:N	2.27	0.51
1:0O:8:GLN:CD	1:0O:17:GLY:HA3	2.31	0.51
1:0Q:248:ALA:HA	1:0Q:252:LYS:HD2	1.93	0.51
2:0X:69:ASP:OD1	2:0X:70:LEU:N	2.41	0.51
2:1F:318:MET:HB2	2:1F:376:CYS:HB3	1.93	0.51
2:1H:209:ILE:HG21	2:1H:227:LEU:HG	1.92	0.51
2:1H:280:LYS:HA	2:1H:283:HIS:HB3	1.92	0.51
1:1O:180:VAL:HG23	1:1O:184:ASN:ND2	2.26	0.51
2:1P:178:SER:HB2	1:1Q:347:ASN:OD1	2.11	0.51
2:1R:132:LEU:HD22	2:1R:164:LYS:HD3	1.92	0.51
2:1T:320:ARG:NH2	2:1T:359:PRO:O	2.43	0.51
2:1T:333:ALA:O	2:1T:337:THR:HG23	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1U:113:ILE:HD11	1:1U:151:LEU:HA	1.93	0.51
1:1W:317:PHE:HE2	1:1W:326:VAL:HG13	1.75	0.51
2:1Z:287:SER:OG	2:1Z:288:VAL:N	2.43	0.51
2:2D:70:LEU:HB3	2:2D:97:GLU:O	2.11	0.51
1:2E:16:ILE:HD11	1:2E:136:CYS:HB3	1.92	0.51
2:2F:280:LYS:HA	2:2F:283:HIS:HB3	1.93	0.51
2:2N:161:TYR:CE1	38:8D:80:TYR:HB2	2.22	0.51
2:2N:278:ALA:HA	2:2N:369:ALA:HB2	1.93	0.51
1:2Q:276:ARG:O	1:2Q:276:ARG:NH1	2.44	0.51
1:2S:350:LYS:HZ3	1:2S:352:SER:HB3	1.75	0.51
2:2T:384:ILE:HA	2:2T:387:ILE:HD12	1.93	0.51
2:2Z:79:ARG:NH1	2:2Z:92:LEU:O	2.43	0.51
2:2Z:308:ARG:HH22	38:8C:72:ASP:CB	2.13	0.51
2:3D:88:HIS:CG	2:3T:283:HIS:HA	2.45	0.51
1:3M:39:ASP:OD1	1:3M:39:ASP:N	2.43	0.51
1:3M:211:CYS:SG	1:3M:217:LEU:HB2	2.51	0.51
3:3V:16:ASN:HD22	3:3V:22:LYS:HD2	1.75	0.51
9:4Z:184:ALA:O	9:4Z:188:THR:HG23	2.11	0.51
10:5A:330:ALA:HA	10:5A:333:GLU:OE1	2.11	0.51
10:5B:240:LEU:O	10:5B:243:LEU:HG	2.11	0.51
10:5C:196:LEU:O	10:5C:200:GLU:HG2	2.11	0.51
10:5C:235:ARG:HA	10:5C:238:GLU:HG3	1.92	0.51
14:5M:578:LYS:HA	14:5M:589:PHE:HB3	1.92	0.51
20:6F:344:LEU:HD11	20:6F:375:PRO:HB3	1.91	0.51
20:6F:382:THR:HG23	20:6F:383:ARG:HG3	1.92	0.51
21:6G:149:LEU:HD11	21:6G:152:ALA:HA	1.93	0.51
22:6L:31:TYR:O	22:6L:32:LYS:HG3	2.11	0.51
22:6P:248:MET:HE1	22:6P:256:TYR:HB2	1.92	0.51
24:6U:142:ILE:HG13	24:6U:144:GLN:HG3	1.91	0.51
24:6V:97:ARG:NH2	24:6V:99:TYR:OH	2.40	0.51
34:7S:272:LYS:HA	34:7S:275:GLU:OE1	2.10	0.51
35:7U:232:THR:O	35:7U:236:GLU:HG2	2.10	0.51
38:8B:110:ASN:O	38:8B:114:THR:HG23	2.11	0.51
2:4:42:ILE:HG21	24:6U:93:ARG:HH11	1.74	0.51
2:B0:229:ARG:NH2	18:5Y:50:SER:OG	2.41	0.51
1:D6:226:ASN:ND2	39:D6:501:GDP:O6	2.30	0.51
2:G1:219:ILE:CG2	22:6L:175:ALA:HB1	2.41	0.51
1:G2:31:ASP:OD2	1:G2:33:THR:OG1	2.28	0.51
1:G4:77:ARG:O	1:G4:82:GLY:HA3	2.10	0.51
2:G5:174:SER:HB3	2:G5:207:GLU:OE1	2.11	0.51
2:G7:344:VAL:HG22	2:G7:346:TRP:H	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H1:324:VAL:HG23	2:H1:326:LYS:HG3	1.93	0.51
2:H7:90:GLU:HG3	2:H7:121:ARG:NH1	2.24	0.51
2:H7:109:THR:OG1	2:H7:411:GLU:OE2	2.23	0.51
1:I2:139:LEU:HG	1:I2:168:SER:HB3	1.93	0.51
1:I4:172:SER:OG	1:I4:380:ARG:NH1	2.44	0.51
1:I4:183:TYR:OH	1:I4:388:MET:HB3	2.10	0.51
2:I9:370:LYS:HD2	5:4L:317:TYR:CE2	2.46	0.51
1:J4:175:VAL:HG13	2:J5:329:ASN:HD21	1.76	0.51
2:K1:119:LEU:HA	2:K1:122:ILE:HG22	1.91	0.51
1:L4:262:ARG:NH2	1:L4:417:ASP:OD1	2.44	0.51
2:L9:90:GLU:HG3	2:L9:121:ARG:NH1	2.25	0.51
2:M3:287:SER:OG	2:M3:288:VAL:N	2.43	0.51
2:M5:79:ARG:NH1	2:M5:92:LEU:O	2.44	0.51
2:M7:287:SER:OG	2:M7:288:VAL:N	2.44	0.51
2:M9:280:LYS:NZ	29:7J:320:PRO:HB2	2.26	0.51
2:N7:296:PHE:CE2	2:N7:335:ILE:HG12	2.46	0.51
1:N8:204:ASN:HD21	39:N8:502:GDP:HN22	1.58	0.51
2:O5:3:GLU:HB2	2:O5:129:CYS:SG	2.51	0.51
1:Q8:173:PRO:HD2	1:Q8:380:ARG:NE	2.25	0.51
2:Q9:170:THR:HG21	2:Q9:194:LEU:HD11	1.93	0.51
2:R1:156:ARG:HA	2:R1:159:VAL:HG12	1.93	0.51
1:R2:112:LEU:O	1:R2:116:VAL:HG23	2.10	0.51
1:R2:301:CYS:SG	1:R2:302:ALA:N	2.84	0.51
1:R4:90:PHE:HD2	19:6E:254:PHE:HZ	1.57	0.51
1:R6:70:PRO:HG2	2:R7:2:ARG:NH2	2.26	0.51
1:R6:248:ALA:HA	1:R6:252:LYS:HD2	1.93	0.51
1:R8:139:LEU:HD12	1:R8:170:VAL:HG12	1.93	0.51
1:S0:67:ASP:OD2	1:S0:72:THR:OG1	2.28	0.51
1:S2:156:ARG:NH1	1:S2:197:ASP:OD1	2.44	0.51
1:S6:288:GLU:OE1	1:S6:289:LEU:HD12	2.11	0.51
2:S7:51:THR:HG21	2:S7:243:ARG:HG2	1.93	0.51
2:T1:333:ALA:O	2:T1:337:THR:HG23	2.11	0.51
2:T3:147:SER:OG	2:T3:190:SER:HB3	2.11	0.51
1:T4:14:ASN:HD21	1:T4:65:LEU:HB3	1.75	0.51
2:U1:129:CYS:SG	2:U1:130:THR:N	2.83	0.51
1:U4:70:PRO:N	1:U4:92:PHE:HZ	2.08	0.51
1:U6:175:VAL:HG12	2:U7:329:ASN:ND2	2.25	0.51
1:V0:167:PHE:CZ	1:V0:233:MET:HG2	2.46	0.51
2:W1:147:SER:OG	2:W1:190:SER:HB2	2.11	0.51
1:W4:240:LEU:HD11	1:W4:250:LEU:HD23	1.92	0.51
2:W5:9:ILE:HG22	2:W5:146:GLY:HA2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X5:12:ALA:HB2	41:X6:501:GTP:C8	2.46	0.51
1:X6:354:CYS:SG	1:X6:355:ASP:N	2.84	0.51
2:X7:31:GLN:HE21	2:X7:37:PRO:HG3	1.76	0.51
2:X7:88:HIS:HB3	2:Z3:283:HIS:ND1	2.25	0.51
1:X8:250:LEU:HD12	1:X8:250:LEU:N	2.25	0.51
2:Y3:278:ALA:HA	2:Y3:369:ALA:HB2	1.91	0.51
2:Y5:12:ALA:HB2	41:Y6:501:GTP:C8	2.45	0.51
1:Y6:205:GLU:HG2	1:Y6:206:ALA:N	2.25	0.51
2:Y9:133:GLN:HB3	2:Y9:252:ILE:HD11	1.93	0.51
2:Y9:332:VAL:HA	2:Y9:335:ILE:HG22	1.93	0.51
1:Z0:8:GLN:HB3	1:Z0:13:GLY:O	2.11	0.51
1:Z0:49:VAL:HG21	1:Z0:241:ARG:HG2	1.93	0.51
1:Z0:272:PRO:O	1:Z0:273:LEU:HD23	2.11	0.51
2:Z1:27:GLU:OE2	2:Z1:243:ARG:NH1	2.44	0.51
2:Z3:233:GLN:OE1	2:Z3:272:TYR:OH	2.26	0.51
2:Z5:121:ARG:NE	2:Z5:121:ARG:HA	2.26	0.51
1:Z6:113:ILE:HA	1:Z6:116:VAL:HG22	1.93	0.51
2:Z7:8:HIS:CD2	2:Z7:138:PHE:HD2	2.27	0.51
2:0B:296:PHE:CE2	2:0B:335:ILE:HG12	2.45	0.51
1:0C:171:PRO:HG3	1:0C:181:GLU:HB3	1.92	0.51
1:0E:2:ARG:HB2	1:0E:240:LEU:HD11	1.93	0.51
1:0G:173:PRO:HB3	1:0G:384:GLN:HE22	1.76	0.51
1:0G:237:THR:HG23	1:0G:241:ARG:HH21	1.76	0.51
1:0I:286:VAL:O	1:0I:290:THR:HG23	2.11	0.51
1:0I:309:ARG:H	1:0I:372:THR:HG22	1.76	0.51
2:0N:217:LEU:HD21	2:0N:368:LEU:HD23	1.92	0.51
2:0N:271:SER:OG	2:0N:300:SER:O	2.24	0.51
1:0O:66:MET:SD	1:0O:116:VAL:HG11	2.50	0.51
2:0P:288:VAL:HG13	2:0P:319:TYR:HE2	1.76	0.51
2:0X:90:GLU:O	2:0X:121:ARG:NH1	2.35	0.51
1:1C:50:TYR:CE2	1:1C:241:ARG:HD3	2.45	0.51
2:1R:109:THR:OG1	2:1R:411:GLU:OE2	2.29	0.51
2:1V:175:PRO:HB3	2:1V:390:ARG:HE	1.76	0.51
1:1W:7:ILE:HD13	1:1W:151:LEU:HD21	1.92	0.51
2:1Z:129:CYS:SG	2:1Z:130:THR:N	2.84	0.51
1:2A:139:LEU:HD12	1:2A:170:VAL:HG12	1.92	0.51
1:2I:178:THR:HG22	2:2J:352:LYS:HE2	1.93	0.51
1:2M:173:PRO:HD2	1:2M:380:ARG:NE	2.17	0.51
2:2N:287:SER:OG	2:2N:288:VAL:N	2.43	0.51
2:2R:394:LYS:HB2	1:2S:346:PRO:HG3	1.93	0.51
2:2X:248:LEU:HD22	2:2X:354:GLY:HA2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2Y:189:VAL:O	1:2Y:193:VAL:HG13	2.11	0.51
1:2Y:207:LEU:HB3	1:2Y:225:LEU:HD22	1.93	0.51
1:3A:178:THR:HG23	1:3A:181:GLU:HG3	1.91	0.51
1:3G:173:PRO:HD2	1:3G:380:ARG:NH1	2.26	0.51
2:3H:183:GLU:CD	2:3H:184:PRO:HD3	2.31	0.51
1:3I:139:LEU:HA	1:3I:145:SER:OG	2.11	0.51
1:3K:203:ASP:OD2	1:3K:302:ALA:N	2.43	0.51
2:3L:21:TRP:CZ2	2:3L:65:CYS:HB3	2.45	0.51
1:3O:274:THR:O	1:3O:279:GLN:NE2	2.41	0.51
2:3R:79:ARG:O	2:3R:84:ARG:HG2	2.11	0.51
2:3T:71:GLU:CG	2:3T:98:ASP:HB3	2.40	0.51
3:3Z:16:ASN:HD22	3:3Z:22:LYS:HD2	1.75	0.51
14:5L:210:TYR:HE1	14:5L:220:GLN:HB2	1.72	0.51
14:5L:578:LYS:HA	14:5L:589:PHE:HB3	1.92	0.51
15:5P:334:LEU:HD23	15:5P:334:LEU:C	2.31	0.51
18:5Z:106:GLU:OE1	18:5Z:106:GLU:N	2.38	0.51
18:5Z:210:GLU:N	18:5Z:210:GLU:OE1	2.44	0.51
21:6H:104:THR:HG23	21:6H:113:PRO:HA	1.93	0.51
23:6Q:28:LYS:NZ	23:6Q:50:ALA:HA	2.26	0.51
24:6V:456:ASP:N	24:6V:456:ASP:OD1	2.43	0.51
24:6X:50:ASP:OD1	24:6X:51:LEU:N	2.43	0.51
24:6X:536:ASP:OD1	24:6X:537:GLU:N	2.44	0.51
24:7A:151:HIS:CE1	24:7A:153:VAL:HG22	2.46	0.51
38:8A:213:GLU:HG2	38:8A:214:HIS:H	1.76	0.51
1:D6:219:THR:HG22	24:6Z:254:SER:HB3	1.93	0.51
2:G3:220:GLU:OE1	2:G3:220:GLU:N	2.44	0.51
1:G4:31:ASP:OD1	1:G4:35:THR:N	2.35	0.51
1:G6:122:LYS:O	1:G6:126:SER:OG	2.21	0.51
1:G6:287:PRO:HA	1:G6:290:THR:HG22	1.93	0.51
2:G7:116:ASP:N	2:G7:116:ASP:OD1	2.43	0.51
2:G7:333:ALA:O	2:G7:337:THR:HG23	2.11	0.51
2:H1:9:ILE:HD13	2:H1:150:GLY:HA2	1.92	0.51
2:H1:207:GLU:HG2	2:H1:304:LYS:HD2	1.93	0.51
1:H4:113:ILE:HD11	1:H4:151:LEU:HA	1.93	0.51
1:H6:153:SER:O	1:H6:157:GLU:HG2	2.11	0.51
2:I7:34:GLY:HA3	2:I7:60:LYS:HZ2	1.76	0.51
2:J1:287:SER:OG	2:J1:288:VAL:N	2.44	0.51
2:J3:52:PHE:HZ	2:J3:239:THR:HG21	1.75	0.51
1:J4:107:THR:OG1	1:J4:401:GLU:OE2	2.20	0.51
2:K1:88:HIS:HB3	2:L7:283:HIS:CG	2.46	0.51
2:K3:289:ALA:O	2:K3:293:ASN:ND2	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L9:88:HIS:HB2	1:N6:281:TYR:CE1	2.46	0.51
2:M1:11:GLN:NE2	1:M2:247:ASN:OD1	2.44	0.51
2:M5:8:HIS:CD2	2:M5:17:GLY:HA3	2.46	0.51
2:M9:237:SER:HA	2:M9:320:ARG:HD2	1.93	0.51
1:N0:41:ASP:N	1:N0:41:ASP:OD1	2.43	0.51
1:N8:309:ARG:NH1	1:N8:339:SER:O	2.44	0.51
1:O0:232:VAL:O	1:O0:236:ILE:HG12	2.11	0.51
2:O5:287:SER:OG	2:O5:288:VAL:N	2.44	0.51
2:O7:346:TRP:HZ2	2:O7:435:VAL:HG23	1.76	0.51
2:P3:259:LEU:HD11	2:P3:316:CYS:HB2	1.92	0.51
2:P3:313:MET:N	2:P3:380:ASN:O	2.38	0.51
2:P5:7:ILE:HD11	2:P5:137:VAL:HG12	1.91	0.51
2:P9:53:PHE:HB3	2:P9:61:HIS:HB3	1.92	0.51
2:Q1:66:ILE:HG13	2:Q1:66:ILE:O	2.10	0.51
2:Q3:399:TYR:OH	2:Q3:415:GLU:OE1	2.23	0.51
1:R0:101:TRP:HD1	1:R0:145:SER:HG	1.57	0.51
1:R6:67:ASP:N	1:R6:67:ASP:OD1	2.44	0.51
1:S4:337:ASN:HD21	17:5R:48:THR:N	2.07	0.51
1:S8:135:VAL:HG11	1:S8:152:ILE:HD11	1.93	0.51
1:S8:375:GLN:HB3	1:S8:422:TYR:CD2	2.43	0.51
1:T0:108:GLU:OE1	1:T0:108:GLU:N	2.44	0.51
2:T3:342:GLN:HE21	13:5J:74:ASN:HD21	1.59	0.51
2:T5:296:PHE:CD2	2:T5:335:ILE:HD13	2.46	0.51
1:T6:244:GLY:HA2	1:T6:355:ASP:OD2	2.11	0.51
2:T7:70:LEU:HG	2:T7:145:THR:HG23	1.92	0.51
1:V0:391:ARG:HD3	2:V1:346:TRP:CH2	2.45	0.51
2:V9:147:SER:OG	2:V9:190:SER:HB2	2.11	0.51
2:W3:205:ASP:OD2	2:W3:304:LYS:N	2.43	0.51
2:W3:331:SER:O	2:W3:334:THR:OG1	2.20	0.51
2:W7:90:GLU:CB	2:W7:121:ARG:HH12	2.18	0.51
1:W8:183:TYR:HB3	1:W8:398:TYR:HE2	1.76	0.51
1:X2:12:CYS:O	1:X2:16:ILE:HG13	2.10	0.51
1:X2:284:LEU:HG	1:X2:362:LYS:HD2	1.93	0.51
1:X4:178:THR:HB	2:X5:352:LYS:HE3	1.93	0.51
1:X4:237:THR:HG23	1:X4:241:ARG:HH21	1.75	0.51
1:Y2:322:SER:OG	1:Y2:325:GLU:HG3	2.11	0.51
1:Y4:190:HIS:HE2	1:Y4:410:GLU:HG3	1.76	0.51
1:Y8:114:ASP:OD1	1:Y8:114:ASP:N	2.42	0.51
1:Z0:372:THR:O	1:Z0:375:GLN:HG3	2.10	0.51
2:Z5:313:MET:SD	2:Z5:380:ASN:ND2	2.84	0.51
2:0J:271:SER:HB2	2:0J:301:MET:SD	2.51	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0J:338:LYS:HZ2	2:0J:339:ARG:H	1.59	0.51
2:0J:362:VAL:HG13	2:0J:370:LYS:HD2	1.91	0.51
1:0S:311:LEU:HD23	1:0S:312:THR:HG22	1.92	0.51
1:0U:317:PHE:HE2	1:0U:326:VAL:HG13	1.74	0.51
1:0W:173:PRO:HB3	1:0W:384:GLN:HE22	1.75	0.51
2:0X:12:ALA:O	2:0X:16:VAL:HG23	2.10	0.51
2:0X:290:GLU:HA	2:0X:293:ASN:HD22	1.75	0.51
2:0X:301:MET:HE1	2:0X:307:PRO:HD3	1.93	0.51
1:1C:301:CYS:SG	1:1C:302:ALA:N	2.83	0.51
2:1F:12:ALA:O	2:1F:16:VAL:HG23	2.10	0.51
2:1F:65:CYS:SG	2:1F:66:ILE:N	2.84	0.51
2:1H:156:ARG:HA	2:1H:159:VAL:HG12	1.93	0.51
2:1N:116:ASP:OD1	2:1N:117:LEU:N	2.42	0.51
1:1Q:325:GLU:N	1:1Q:325:GLU:OE1	2.44	0.51
2:1R:205:ASP:OD2	2:1R:206:ASN:N	2.44	0.51
1:1S:286:VAL:HG22	1:1S:321:MET:HE3	1.93	0.51
2:1T:72:PRO:HG3	1:1U:1:MET:HG2	1.92	0.51
2:1V:317:LEU:HB3	2:1V:319:TYR:HE1	1.75	0.51
1:1W:5:VAL:HG23	1:1W:62:ARG:HG2	1.92	0.51
2:1Z:262:TYR:CE1	2:1Z:264:ARG:HB2	2.45	0.51
1:2A:115:SER:HA	1:2A:118:ASP:OD1	2.11	0.51
2:2B:14:ILE:HD11	2:2B:74:VAL:HG13	1.92	0.51
1:2C:173:PRO:CD	1:2C:380:ARG:HE	2.24	0.51
1:2G:91:VAL:HG11	1:2G:116:VAL:HG23	1.93	0.51
2:2H:213:CYS:SG	2:2H:219:ILE:HB	2.51	0.51
1:2K:86:ARG:HG2	1:2K:88:ASP:H	1.75	0.51
2:2T:406:HIS:HA	2:2T:409:VAL:HG22	1.92	0.51
2:2V:5:ILE:HG22	2:2V:64:ARG:HB3	1.93	0.51
1:3A:5:VAL:HG12	1:3A:133:PHE:HD1	1.75	0.51
1:3A:86:ARG:HG2	1:3A:88:ASP:H	1.76	0.51
2:3B:211:ASP:OD1	38:8C:18:VAL:HG13	2.11	0.51
2:3F:218:ASP:O	38:8A:175:ARG:HG3	2.11	0.51
1:3M:77:ARG:CZ	3:4D:19:LEU:HA	2.40	0.51
1:3Q:65:LEU:HD13	1:3Q:90:PHE:CD1	2.46	0.51
2:3T:65:CYS:SG	2:3T:66:ILE:N	2.83	0.51
3:4D:16:ASN:HD22	3:4D:22:LYS:HD2	1.75	0.51
3:4H:16:ASN:HD22	3:4H:22:LYS:HD2	1.75	0.51
3:4J:182:ASP:O	3:4J:186:VAL:HG22	2.10	0.51
5:4M:199:ARG:O	5:4M:203:GLU:HG2	2.11	0.51
7:4U:91:GLN:NE2	21:6H:74:LEU:HD21	2.26	0.51
10:5C:478:LEU:HD11	10:5C:495:GLU:CA	2.34	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:5F:362:ASP:OD1	12:5F:362:ASP:C	2.49	0.51
14:5L:32:TYR:OH	14:5L:41:ARG:HD2	2.10	0.51
14:5M:32:TYR:OH	14:5M:41:ARG:HD2	2.10	0.51
15:5P:279:ALA:HA	15:5P:298:VAL:CG2	2.41	0.51
18:5X:210:GLU:N	18:5X:210:GLU:OE1	2.44	0.51
18:5Y:210:GLU:N	18:5Y:210:GLU:OE1	2.44	0.51
18:6A:210:GLU:N	18:6A:210:GLU:OE1	2.44	0.51
18:6C:106:GLU:OE1	18:6C:106:GLU:N	2.38	0.51
18:6D:210:GLU:N	18:6D:210:GLU:OE1	2.44	0.51
21:6H:136:GLN:NE2	21:6H:170:LEU:HB3	2.26	0.51
22:6K:108:ARG:HH2	24:6V:283:THR:C	2.13	0.51
24:6T:481:LEU:HB3	24:6T:500:ARG:HB3	1.93	0.51
24:6U:92:ASP:OD2	26:7D:49:PRO:HD2	2.10	0.51
24:6W:507:ARG:NH2	24:6W:507:ARG:HA	2.26	0.51
24:6X:132:VAL:HB	24:6X:148:ILE:HB	1.93	0.51
24:6Y:435:LEU:HD12	24:6Y:435:LEU:H	1.74	0.51
24:6Z:171:THR:HG22	24:6Z:180:TYR:HD1	1.75	0.51
24:6Z:183:ASP:OD1	24:6Z:184:ALA:N	2.43	0.51
24:7A:5:ALA:HA	31:7N:84:TYR:CD1	2.46	0.51
30:7K:344:ARG:HB2	30:7K:344:ARG:NH2	2.26	0.51
31:7M:64:HIS:O	31:7M:76:THR:CG2	2.58	0.51
1:A3:413:SER:HA	3:4H:203:LYS:HZ1	1.76	0.51
1:G6:190:HIS:HD2	1:G6:411:ALA:HA	1.74	0.51
1:G6:276:ARG:HD2	24:6Y:410:PHE:HA	1.93	0.51
2:G7:288:VAL:HG11	2:G7:323:VAL:HG13	1.92	0.51
2:G9:88:HIS:HB3	2:I5:283:HIS:ND1	2.25	0.51
2:G9:236:SER:O	2:G9:243:ARG:NH2	2.44	0.51
1:H4:167:PHE:CZ	1:H4:233:MET:HG2	2.45	0.51
2:H5:399:TYR:O	2:H5:402:ARG:NH1	2.44	0.51
1:H8:404:ASP:OD1	1:H8:405:GLU:N	2.38	0.51
2:H9:9:ILE:HG22	2:H9:146:GLY:HA2	1.93	0.51
2:H9:26:LEU:HD23	2:H9:363:VAL:HG12	1.93	0.51
1:I0:113:ILE:HD13	1:I0:150:LEU:HD22	1.92	0.51
2:I7:305:CYS:HB3	2:I7:387:ILE:HD11	1.92	0.51
1:J0:40:SER:CB	28:7H:413:TYR:HD1	2.24	0.51
2:J1:72:PRO:HG3	1:J2:1:MET:HG2	1.93	0.51
1:J2:41:ASP:HA	1:J2:44:LEU:HD23	1.93	0.51
2:J3:76:ASP:OD2	1:J4:46:ARG:NH2	2.44	0.51
2:K5:267:PHE:HB2	2:K5:384:ILE:HD12	1.92	0.51
1:K6:7:ILE:HB	1:K6:135:VAL:HG22	1.92	0.51
1:K6:139:LEU:HD12	1:K6:170:VAL:HG12	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K6:371:SER:OG	1:K6:372:THR:N	2.43	0.51
2:K9:88:HIS:CD2	2:M5:283:HIS:HB3	2.46	0.51
1:L2:203:ASP:OD2	1:L2:302:ALA:N	2.44	0.51
2:N1:137:VAL:HG22	2:N1:168:GLY:HA2	1.92	0.51
1:N6:91:VAL:HG21	1:N6:116:VAL:HG12	1.93	0.51
1:N6:273:LEU:H	1:N6:292:GLN:HE22	1.58	0.51
2:N7:53:PHE:HB3	2:N7:61:HIS:HB3	1.93	0.51
2:N7:203:MET:HB2	2:N7:303:VAL:HG21	1.92	0.51
2:N7:242:LEU:HD11	2:N7:252:ILE:HG12	1.93	0.51
1:O6:406:MET:O	1:O6:410:GLU:HG2	2.10	0.51
1:O8:371:SER:OG	1:O8:372:THR:N	2.44	0.51
2:P3:386:GLU:OE1	2:P3:390:ARG:NH1	2.43	0.51
2:P7:205:ASP:OD2	2:P7:206:ASN:N	2.43	0.51
2:Q5:166:LYS:N	2:Q5:199:ASP:OD2	2.44	0.51
1:Q8:163:MET:SD	1:Q8:164:MET:N	2.84	0.51
1:R8:135:VAL:HG12	1:R8:137:HIS:HD2	1.76	0.51
2:S1:21:TRP:CZ2	2:S1:65:CYS:HB3	2.45	0.51
1:S2:2:ARG:HE	1:S2:240:LEU:HD22	1.76	0.51
1:S4:249:ASP:HB2	1:S4:252:LYS:CE	2.40	0.51
2:T3:145:THR:OG1	41:T4:501:GTP:O1B	2.29	0.51
1:U4:309:ARG:H	1:U4:372:THR:HG22	1.76	0.51
1:U4:317:PHE:HE2	1:U4:326:VAL:HG13	1.75	0.51
2:U7:47:ASP:N	2:U7:47:ASP:OD1	2.44	0.51
2:U7:317:LEU:HB3	2:U7:319:TYR:HE1	1.75	0.51
2:V3:100:ALA:CA	1:V4:252:LYS:HG2	2.40	0.51
1:V6:170:VAL:HG22	1:V6:203:ASP:HB3	1.93	0.51
2:V7:79:ARG:NH1	2:V7:92:LEU:O	2.43	0.51
2:V7:274:PRO:HD3	2:V7:374:ALA:HA	1.93	0.51
2:W1:207:GLU:HB3	2:W1:304:LYS:HG3	1.93	0.51
2:W1:429:GLU:O	2:W1:433:GLU:HG2	2.10	0.51
2:W5:65:CYS:SG	2:W5:66:ILE:N	2.84	0.51
2:W7:88:HIS:HB3	2:W7:91:GLN:CB	2.40	0.51
1:X2:123:GLU:O	1:X2:126:SER:OG	2.29	0.51
2:Y1:203:MET:HB2	2:Y1:303:VAL:HG21	1.93	0.51
1:Y4:97:ALA:HA	1:Y4:103:LYS:HE3	1.93	0.51
2:Y5:154:LEU:HD12	2:Y5:157:LEU:HD23	1.92	0.51
2:Y5:156:ARG:O	2:Y5:159:VAL:HG22	2.11	0.51
1:Z0:293:MET:HE2	1:Z0:367:PHE:HB3	1.91	0.51
1:Z2:397:TRP:HE1	2:Z3:260:VAL:HB	1.76	0.51
1:Z6:325:GLU:HA	1:Z6:328:GLU:HG3	1.92	0.51
2:Z7:245:ASP:OD1	2:Z7:245:ASP:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z8:242:PHE:HB2	1:Z8:354:CYS:SG	2.51	0.51
2:Z9:181:VAL:HG12	1:0A:347:ASN:O	2.11	0.51
2:Z9:300:SER:OG	2:Z9:300:SER:O	2.28	0.51
2:Z9:383:ALA:O	2:Z9:387:ILE:HG12	2.10	0.51
1:0G:165:LEU:HD22	1:0G:167:PHE:CE1	2.46	0.51
1:0G:252:LYS:HE2	1:0G:350:LYS:CE	2.41	0.51
2:0H:145:THR:OG1	41:0I:501:GTP:O1B	2.28	0.51
1:0K:5:VAL:HG23	1:0K:62:ARG:HG2	1.92	0.51
2:0L:392:ASP:OD2	2:0L:422:ARG:NH1	2.44	0.51
1:0M:101:TRP:HB2	1:0M:184:ASN:OD1	2.11	0.51
1:0M:248:ALA:HA	1:0M:252:LYS:HD2	1.93	0.51
1:0M:393:ALA:CB	2:0N:346:TRP:NE1	2.37	0.51
2:0N:88:HIS:ND1	2:1D:283:HIS:HA	2.26	0.51
1:0Q:235:GLY:HA3	1:0Q:366:THR:HG21	1.92	0.51
1:0U:8:GLN:O	1:0U:66:MET:HG2	2.11	0.51
1:0Y:207:LEU:HB3	1:0Y:225:LEU:HD22	1.92	0.51
1:0Y:260:PHE:HB2	1:0Y:263:LEU:HD23	1.93	0.51
2:1B:336:LYS:O	2:1B:339:ARG:NH2	2.43	0.51
1:1E:236:ILE:HD12	1:1E:368:ILE:HD11	1.93	0.51
2:1L:204:LEU:HD23	2:1L:231:ILE:HD12	1.93	0.51
1:1M:177:ASP:O	2:1N:352:LYS:HA	2.11	0.51
1:1O:189:VAL:HA	1:1O:192:LEU:HB2	1.92	0.51
2:1T:111:GLY:HA2	2:1T:114:ILE:HG22	1.93	0.51
1:1U:72:THR:O	1:1U:76:VAL:HG23	2.11	0.51
2:1Z:191:THR:HG23	2:1Z:425:LEU:HD21	1.93	0.51
1:2A:335:ASN:O	1:2A:338:SER:OG	2.29	0.51
2:2B:116:ASP:N	2:2B:116:ASP:OD1	2.44	0.51
1:2M:404:ASP:HB3	1:2M:406:MET:SD	2.51	0.51
2:2R:399:TYR:O	2:2R:402:ARG:NH1	2.43	0.51
2:2T:187:SER:O	2:2T:191:THR:HG23	2.11	0.51
1:3A:309:ARG:NH1	1:3A:341:PHE:O	2.42	0.51
1:3G:114:ASP:N	1:3G:114:ASP:OD1	2.44	0.51
1:3I:140:GLY:O	1:3I:184:ASN:ND2	2.34	0.51
1:3I:161:ASP:OD1	1:3I:162:ARG:NH1	2.44	0.51
1:3K:4:ILE:HD11	1:3K:134:GLN:HB2	1.92	0.51
1:3O:128:ASP:OD1	1:3O:129:CYS:N	2.39	0.51
1:3S:86:ARG:HB3	1:3S:89:ASN:OD1	2.11	0.51
2:3T:316:CYS:HB3	2:3T:378:ILE:HG22	1.92	0.51
3:4J:188:GLY:H	3:4J:190:LYS:NZ	2.09	0.51
6:4N:458:GLU:OE1	6:4O:126:ARG:NE	2.35	0.51
9:4Z:328:ASP:HB3	9:4Z:331:ARG:NH2	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:5F:35:PRO:HD2	12:5G:383:ARG:CZ	2.41	0.51
12:5F:108:ASN:HA	33:7Q:179:GLN:NE2	2.26	0.51
14:5N:578:LYS:HA	14:5N:589:PHE:HB3	1.92	0.51
18:5Z:103:PRO:HD3	24:6W:178:ASN:HB3	1.93	0.51
18:6A:5:VAL:HG13	18:6A:62:GLU:HG2	1.91	0.51
18:6A:39:TYR:CZ	26:7E:24:GLN:OE1	2.64	0.51
18:6B:210:GLU:N	18:6B:210:GLU:OE1	2.44	0.51
18:6C:210:GLU:N	18:6C:210:GLU:OE1	2.44	0.51
18:6D:106:GLU:OE1	18:6D:106:GLU:N	2.38	0.51
24:6V:152:ARG:HD3	24:6V:160:PHE:CG	2.46	0.51
24:6W:536:ASP:OD1	24:6W:537:GLU:N	2.44	0.51
24:6Y:122:TYR:HB2	24:6Y:131:HIS:HB3	1.92	0.51
24:6Y:378:TRP:O	24:6Y:382:ASN:ND2	2.39	0.51
27:7G:73:GLU:O	27:7G:77:LEU:HD23	2.11	0.51
2:2:85:GLN:NE2	18:5X:78:LEU:HD13	2.25	0.50
2:B7:223:THR:HG23	18:6B:51:MET:HE3	1.93	0.50
2:C5:44:GLY:HA3	24:6T:306:LEU:HD11	1.93	0.50
1:C6:358:PRO:HB2	24:6U:336:THR:HG21	1.91	0.50
2:E1:85:GLN:HE22	22:6J:213:THR:HG22	1.77	0.50
1:G2:211:CYS:SG	1:G2:217:LEU:HB2	2.52	0.50
1:G2:361:LEU:HD23	1:G2:364:SER:HB2	1.92	0.50
1:G4:167:PHE:CE2	1:G4:233:MET:HG2	2.47	0.50
2:G5:7:ILE:HG23	2:G5:137:VAL:HG12	1.93	0.50
2:H1:101:ASN:ND2	2:H1:143:GLY:HA2	2.27	0.50
1:H6:396:HIS:H	1:H6:396:HIS:CD2	2.29	0.50
1:H6:404:ASP:HB3	1:H6:406:MET:SD	2.50	0.50
2:I1:115:VAL:O	2:I1:119:LEU:HG	2.11	0.50
1:J2:77:ARG:HG3	16:5Q:180:VAL:HG21	1.92	0.50
1:K0:215:LEU:HB3	1:K0:217:LEU:HG	1.92	0.50
1:K6:2:ARG:HE	1:K6:240:LEU:HD22	1.75	0.50
1:K8:14:ASN:HD22	1:K8:65:LEU:HD22	1.75	0.50
1:K8:131:GLN:HE21	1:K8:250:LEU:HB2	1.76	0.50
1:L6:117:LEU:HA	1:L6:120:VAL:HG12	1.92	0.50
2:L9:10:GLY:HA2	2:L9:145:THR:HG23	1.92	0.50
2:L9:277:SER:OG	2:L9:278:ALA:N	2.44	0.50
2:M9:5:ILE:HG22	2:M9:64:ARG:HB3	1.93	0.50
1:N0:272:PRO:CB	1:N0:282:ARG:HH22	2.23	0.50
1:N2:121:ARG:NH2	1:N2:158:GLU:OE2	2.42	0.50
2:N5:129:CYS:SG	2:N5:130:THR:N	2.84	0.50
1:N8:49:VAL:O	1:N8:62:ARG:NH1	2.42	0.50
2:O5:113:GLU:OE1	2:O5:113:GLU:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O5:217:LEU:HG	2:O5:275:ILE:HG22	1.93	0.50
2:O7:90:GLU:HA	2:O7:90:GLU:OE2	2.12	0.50
1:O8:211:CYS:HA	1:O8:215:LEU:HB2	1.93	0.50
1:P4:257:LEU:HD21	1:P4:314:SER:HB3	1.92	0.50
2:P5:66:ILE:O	2:P5:66:ILE:HG13	2.10	0.50
1:Q6:237:THR:HG22	1:Q6:237:THR:O	2.11	0.50
1:Q6:417:ASP:HA	1:Q6:420:SER:HB3	1.93	0.50
1:Q8:46:ARG:HH21	1:Q8:240:LEU:HB3	1.75	0.50
1:R0:215:LEU:HB3	1:R0:217:LEU:HG	1.93	0.50
1:R6:278:SER:O	1:R6:278:SER:OG	2.30	0.50
2:S7:330:ALA:O	2:S7:334:THR:HG23	2.10	0.50
1:T4:134:GLN:HE21	1:T4:167:PHE:HE2	1.58	0.50
1:T6:6:HIS:CE1	1:T6:8:GLN:HG2	2.46	0.50
1:U4:67:ASP:OD2	1:U4:72:THR:OG1	2.26	0.50
2:U7:84:ARG:HG3	2:U7:84:ARG:HH11	1.75	0.50
1:V8:70:PRO:N	1:V8:92:PHE:HZ	2.09	0.50
2:W1:111:GLY:O	2:W1:115:VAL:HG22	2.11	0.50
2:W3:31:GLN:HE21	2:W3:37:PRO:HG3	1.76	0.50
2:W3:68:LEU:HA	2:W3:93:ILE:O	2.11	0.50
1:W6:285:THR:HG22	1:W6:288:GLU:HG2	1.92	0.50
1:W8:6:HIS:NE2	1:W8:136:CYS:SG	2.74	0.50
2:W9:245:ASP:N	2:W9:245:ASP:OD1	2.41	0.50
2:X3:88:HIS:HB3	2:Y9:283:HIS:CE1	2.46	0.50
1:X4:238:CYS:SG	1:X4:239:CYS:N	2.84	0.50
1:Y4:140:GLY:HA3	1:Y4:181:GLU:OE1	2.11	0.50
1:Y8:309:ARG:NH1	1:Y8:343:GLU:OE2	2.44	0.50
2:Z1:69:ASP:OD1	2:Z1:70:LEU:N	2.42	0.50
2:Z1:381:SER:OG	2:Z1:382:THR:N	2.44	0.50
1:Z4:4:ILE:HD11	1:Z4:240:LEU:HD22	1.93	0.50
1:Z6:207:LEU:HD11	1:Z6:229:ILE:HD11	1.92	0.50
1:Z8:86:ARG:HD3	1:Z8:88:ASP:HB2	1.93	0.50
1:Z8:395:LEU:O	1:Z8:399:THR:HG23	2.11	0.50
2:0B:31:GLN:HB2	2:0B:33:ASP:OD1	2.11	0.50
1:0C:20:PHE:HA	1:0C:230:SER:OG	2.11	0.50
2:0H:257:THR:OG1	2:0H:258:ASN:N	2.42	0.50
1:0K:68:LEU:HD21	1:0K:112:LEU:HD22	1.92	0.50
2:0L:174:SER:HA	2:0L:205:ASP:OD1	2.11	0.50
1:0O:388:MET:HG3	1:0O:393:ALA:HB3	1.94	0.50
2:0P:191:THR:HA	2:0P:194:LEU:HB3	1.94	0.50
1:0S:143:THR:O	1:0S:147:MET:HE2	2.12	0.50
1:0U:384:GLN:HB3	2:0V:348:PRO:HG3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0Z:227:LEU:O	2:0Z:231:ILE:HG12	2.11	0.50
1:1E:192:LEU:HD22	1:1E:265:PHE:HE1	1.77	0.50
2:1N:83:TYR:HB3	2:1N:86:LEU:HB3	1.93	0.50
2:1N:109:THR:OG1	2:1N:411:GLU:OE2	2.27	0.50
1:1O:97:ALA:HA	1:1O:103:LYS:HE3	1.93	0.50
2:1X:227:LEU:O	2:1X:231:ILE:HG12	2.11	0.50
2:1Z:286:LEU:H	2:1Z:286:LEU:HD23	1.76	0.50
1:2A:111:GLU:HG2	1:2A:112:LEU:HD22	1.93	0.50
2:2B:123:ARG:HD2	38:8A:75:SER:HB3	1.92	0.50
1:2G:25:SER:OG	1:2G:30:ILE:HG13	2.11	0.50
2:2H:69:ASP:OD1	2:2H:70:LEU:N	2.44	0.50
2:2H:81:GLY:O	2:2H:84:ARG:NH1	2.43	0.50
1:2I:94:GLN:OE1	38:8C:116:GLN:NE2	2.44	0.50
1:2U:199:CYS:HB2	1:2U:265:PHE:HD1	1.76	0.50
1:2W:190:HIS:CD2	1:2W:411:ALA:HA	2.46	0.50
1:3A:113:ILE:HA	1:3A:116:VAL:HG12	1.92	0.50
2:3B:236:SER:OG	2:3B:243:ARG:NH2	2.44	0.50
1:3M:77:ARG:NE	3:4D:19:LEU:HA	2.26	0.50
2:3T:195:LEU:HD21	2:3T:264:ARG:HH11	1.75	0.50
3:3X:90:ILE:O	3:3X:93:LYS:HB2	2.12	0.50
3:4J:122:ARG:NH2	3:4J:167:GLU:OE2	2.44	0.50
3:4J:123:ARG:O	3:4J:126:GLU:HG3	2.10	0.50
5:4L:290:GLN:NE2	28:7H:309:ALA:HB1	2.11	0.50
6:4O:406:GLN:O	6:4O:410:MET:HG3	2.11	0.50
9:4Y:377:VAL:O	9:4Y:381:LEU:HD23	2.11	0.50
10:5A:283:GLU:HA	10:5A:286:LYS:HE2	1.93	0.50
10:5C:334:ARG:HH11	10:5C:338:LYS:CD	2.24	0.50
14:5L:188:ALA:CA	14:5L:226:VAL:CG1	2.86	0.50
14:5N:32:TYR:OH	14:5N:41:ARG:HD2	2.10	0.50
15:5P:34:GLU:OE2	15:5P:49:ARG:CG	2.55	0.50
18:6A:106:GLU:OE1	18:6A:106:GLU:N	2.38	0.50
22:6I:114:THR:HG23	22:6I:117:GLY:H	1.76	0.50
24:6Z:130:MET:CE	24:6Z:174:ILE:CD1	2.89	0.50
28:7H:314:GLN:HA	28:7H:317:GLU:OE1	2.11	0.50
34:7R:128:LEU:HD21	35:7T:76:LEU:HB3	1.94	0.50
2:6:324:VAL:CG1	26:7D:142:PHE:HZ	2.23	0.50
1:7:405:GLU:HG2	4:4C:97:LYS:NZ	2.26	0.50
1:A3:379:LYS:NZ	3:4H:49:HIS:O	2.44	0.50
1:A9:276:ARG:O	24:6U:115:ARG:NH2	2.44	0.50
1:D2:177:ASP:OD1	39:D2:501:GDP:H3'	2.10	0.50
2:G1:387:ILE:HG12	2:G1:390:ARG:HH22	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G5:101:ASN:OD1	1:G6:252:LYS:HE3	2.10	0.50
2:G7:156:ARG:HA	2:G7:159:VAL:HG12	1.93	0.50
2:H7:102:ASN:HB3	2:H7:105:ARG:HB3	1.93	0.50
2:I5:100:ALA:O	2:I5:102:ASN:ND2	2.44	0.50
2:I9:287:SER:OG	2:I9:288:VAL:N	2.44	0.50
1:J2:11:GLN:N	39:J2:502:GDP:O1B	2.35	0.50
2:J3:48:ALA:CB	16:5Q:174:THR:OG1	2.57	0.50
1:J8:219:THR:HA	2:J9:326:LYS:HZ1	1.75	0.50
2:K9:384:ILE:HA	2:K9:387:ILE:HD12	1.93	0.50
1:L0:371:SER:OG	1:L0:372:THR:N	2.43	0.50
1:L2:207:LEU:HB3	1:L2:225:LEU:HD22	1.93	0.50
1:L2:391:ARG:HD2	2:L3:346:TRP:CE2	2.46	0.50
2:L7:173:PRO:HG3	2:L7:183:GLU:OE2	2.12	0.50
2:L9:129:CYS:SG	2:L9:130:THR:N	2.83	0.50
1:M0:386:THR:O	1:M0:390:ARG:HG3	2.10	0.50
2:M1:269:LEU:HG	2:M1:384:ILE:HD11	1.94	0.50
2:M1:306:ASP:HB3	2:M1:309:HIS:HD2	1.77	0.50
1:M2:215:LEU:HB3	1:M2:217:LEU:HG	1.92	0.50
2:M5:176:GLN:HE22	2:M5:304:LYS:HE2	1.76	0.50
2:N1:90:GLU:HG3	2:N1:121:ARG:NH1	2.26	0.50
2:P3:221:ARG:HB3	1:P4:322:SER:OG	2.12	0.50
1:P6:4:ILE:HB	1:P6:50:TYR:HE1	1.76	0.50
1:P8:42:LEU:HD22	1:P8:356:ILE:HD11	1.93	0.50
2:P9:206:ASN:OD1	41:P9:501:GTP:N2	2.44	0.50
1:Q0:212:PHE:HZ	2:Q1:326:LYS:HG3	1.77	0.50
2:Q5:56:THR:CG2	2:Q5:60:LYS:HB3	2.40	0.50
2:R7:290:GLU:HA	2:R7:293:ASN:HD22	1.76	0.50
1:R8:391:ARG:HD3	2:R9:346:TRP:CZ2	2.45	0.50
1:S0:207:LEU:HB3	1:S0:225:LEU:HD22	1.94	0.50
2:S1:110:ILE:O	2:S1:113:GLU:HG2	2.11	0.50
1:S4:198:GLU:HB3	1:S4:258:ILE:HD11	1.92	0.50
1:S4:263:LEU:HD13	1:S4:422:TYR:HE1	1.77	0.50
1:S4:409:THR:HB	13:5H:50:ARG:HD3	1.93	0.50
2:S5:381:SER:OG	2:S5:382:THR:N	2.43	0.50
2:S7:334:THR:HG21	13:5H:135:ASN:ND2	2.26	0.50
1:S8:336:LYS:HE3	17:5S:40:GLN:HG3	1.93	0.50
1:T0:292:GLN:HG2	1:T0:298:ASN:HD22	1.76	0.50
2:T1:175:PRO:O	2:T1:394:LYS:NZ	2.44	0.50
1:T2:91:VAL:HG12	1:T2:112:LEU:HD11	1.94	0.50
1:T4:113:ILE:HD11	1:T4:151:LEU:HD13	1.93	0.50
1:T4:276:ARG:NH1	21:6H:39:ASN:OD1	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T6:1:MET:HE2	26:7F:67:GLN:NE2	2.26	0.50
1:T6:49:VAL:HG13	1:T6:50:TYR:CD2	2.46	0.50
1:T6:359:LYS:HE2	33:7Q:136:TYR:OH	2.11	0.50
1:T8:278:SER:O	1:T8:278:SER:OG	2.26	0.50
1:U4:7:ILE:HB	1:U4:135:VAL:HG22	1.93	0.50
1:U8:263:LEU:HD22	1:U8:422:TYR:CE1	2.46	0.50
1:V0:36:TYR:CZ	1:V0:44:LEU:HD21	2.46	0.50
1:W0:113:ILE:HA	1:W0:116:VAL:HG12	1.92	0.50
2:W1:34:GLY:HA3	2:W1:60:LYS:CE	2.41	0.50
1:W2:211:CYS:HA	1:W2:215:LEU:HB2	1.93	0.50
1:W4:173:PRO:HD2	1:W4:380:ARG:CZ	2.41	0.50
1:W4:325:GLU:O	1:W4:329:GLN:HB2	2.12	0.50
2:W5:398:MET:HG3	1:W6:346:PRO:HD2	1.93	0.50
1:W6:301:CYS:SG	1:W6:302:ALA:N	2.84	0.50
1:W8:412:GLU:OE2	1:W8:416:ASN:ND2	2.42	0.50
2:X9:240:ALA:HB1	2:X9:356:ASN:HD22	1.76	0.50
1:Y0:98:GLY:HA3	2:Y1:254:GLU:OE2	2.11	0.50
2:Y1:318:MET:HE1	2:Y1:320:ARG:HG3	1.93	0.50
1:Y2:139:LEU:HD12	1:Y2:170:VAL:HG12	1.92	0.50
1:Y8:254:ALA:O	1:Y8:258:ILE:HG12	2.11	0.50
1:Z0:12:CYS:HB2	39:Z0:502:GDP:C8	2.46	0.50
1:Z0:396:HIS:HA	1:Z0:399:THR:HG22	1.93	0.50
2:Z1:74:VAL:O	2:Z1:78:VAL:HG23	2.12	0.50
2:Z1:275:ILE:HD12	2:Z1:368:LEU:HD21	1.91	0.50
1:Z6:105:HIS:CE1	1:Z6:150:LEU:HD13	2.46	0.50
2:Z9:324:VAL:HG13	2:Z9:326:LYS:HG2	1.92	0.50
2:0B:33:ASP:OD2	2:0B:35:GLN:NE2	2.44	0.50
1:0E:396:HIS:HA	1:0E:399:THR:OG1	2.10	0.50
1:0I:8:GLN:CD	1:0I:17:GLY:HA3	2.31	0.50
2:0J:338:LYS:HZ1	2:0J:340:THR:N	2.09	0.50
1:0K:101:TRP:HB2	1:0K:184:ASN:OD1	2.11	0.50
1:0M:318:ARG:HD3	1:0M:358:PRO:HD3	1.93	0.50
1:0O:198:GLU:HA	1:0O:264:HIS:HB2	1.94	0.50
2:0R:56:THR:HB	2:0R:60:LYS:HB3	1.93	0.50
2:0R:116:ASP:N	2:0R:116:ASP:OD1	2.40	0.50
1:0S:385:PHE:HA	1:0S:388:MET:HE2	1.93	0.50
1:0Y:55:THR:CG2	1:1O:284:LEU:HD23	2.41	0.50
1:1A:8:GLN:O	1:1A:66:MET:HG3	2.12	0.50
2:1D:90:GLU:C	2:1D:121:ARG:HH12	2.14	0.50
1:1E:8:GLN:CD	1:1E:17:GLY:HA3	2.32	0.50
2:1F:176:GLN:HE22	2:1F:304:LYS:HE2	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1F:222:PRO:HD2	1:1G:324:LYS:HE3	1.92	0.50
2:1P:189:LEU:HD11	2:1P:418:PHE:HE1	1.75	0.50
1:1S:391:ARG:NH1	2:1T:434:GLU:O	2.43	0.50
1:1W:177:ASP:O	2:1X:352:LYS:HA	2.11	0.50
2:1X:238:LEU:HD12	2:1X:239:THR:HG23	1.93	0.50
1:2A:177:ASP:O	2:2B:352:LYS:HA	2.11	0.50
1:2E:337:ASN:HB3	1:2E:340:TYR:HD2	1.76	0.50
2:2J:335:ILE:HG23	2:2J:341:ILE:HD11	1.94	0.50
2:2L:129:CYS:SG	2:2L:130:THR:N	2.84	0.50
1:2W:328:GLU:HB3	38:8B:67:PHE:CE1	2.46	0.50
2:3B:102:ASN:HB3	2:3B:105:ARG:HB3	1.93	0.50
2:3B:339:ARG:CG	38:8C:39:LYS:NZ	2.72	0.50
2:3F:406:HIS:HA	2:3F:409:VAL:HG22	1.92	0.50
2:3H:51:THR:HG21	2:3H:243:ARG:HG2	1.94	0.50
1:3I:128:ASP:OD1	1:3I:129:CYS:N	2.40	0.50
1:3K:67:ASP:OD1	1:3K:67:ASP:N	2.43	0.50
2:3L:10:GLY:O	2:3L:14:ILE:HG13	2.12	0.50
2:3T:195:LEU:HD11	2:3T:264:ARG:HB3	1.92	0.50
2:3T:305:CYS:HB3	2:3T:387:ILE:HD11	1.92	0.50
3:4F:90:ILE:O	3:4F:93:LYS:HB2	2.12	0.50
12:5G:273:ARG:NH2	12:5G:297:LEU:O	2.44	0.50
12:5G:379:ARG:HB3	12:5G:387:VAL:HG23	1.94	0.50
15:5O:93:ARG:NE	15:5O:162:GLU:OE1	2.39	0.50
15:5O:169:ILE:CD1	15:5O:208:SER:O	2.58	0.50
15:5P:370:ASN:O	15:5P:374:THR:OG1	2.25	0.50
18:6B:106:GLU:OE1	18:6B:106:GLU:N	2.38	0.50
21:6H:128:ALA:O	21:6H:132:VAL:HG23	2.11	0.50
22:6N:209:ASN:OD1	22:6N:210:MET:N	2.44	0.50
24:6V:96:LEU:HB2	24:6V:123:TYR:HB3	1.93	0.50
24:6X:452:MET:HA	24:6X:530:PHE:HA	1.93	0.50
29:7J:167:ILE:HD13	29:7J:167:ILE:O	2.11	0.50
33:7Q:137:LEU:HB3	33:7Q:142:ASP:OD2	2.11	0.50
34:7R:106:ILE:HD11	35:7T:54:LEU:HB2	1.92	0.50
35:7U:146:TYR:CZ	35:7U:150:ILE:HD11	2.46	0.50
2:8:11:GLN:HB3	41:8:501:GTP:PA	2.50	0.50
1:B1:79:GLY:HA3	24:6V:221:ARG:HH22	1.77	0.50
2:E7:223:THR:HG23	22:6M:32:LYS:HB3	1.94	0.50
2:F1:18:ASN:HD21	22:6O:116:TYR:HE1	1.59	0.50
1:G0:58:ARG:HD3	1:H6:280:GLN:HE22	1.75	0.50
1:G2:3:GLU:HB2	1:G2:130:LEU:HD13	1.92	0.50
1:G8:309:ARG:H	1:G8:372:THR:HG22	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G9:330:ALA:O	2:G9:334:THR:HG23	2.11	0.50
1:H4:137:HIS:NE2	1:H4:166:THR:OG1	2.44	0.50
1:H4:263:LEU:HD13	1:H4:422:TYR:CE1	2.46	0.50
1:H8:2:ARG:HB3	1:H8:131:GLN:HB2	1.93	0.50
1:H8:289:LEU:HD23	1:H8:365:ALA:HB2	1.94	0.50
1:I0:178:THR:HG23	1:I0:181:GLU:HG3	1.94	0.50
2:I3:72:PRO:HD2	1:I4:2:ARG:NH1	2.26	0.50
1:J2:391:ARG:NH1	2:J3:435:VAL:HA	2.27	0.50
2:J5:267:PHE:HB2	2:J5:384:ILE:HD12	1.93	0.50
2:K1:21:TRP:CD1	2:K1:87:PHE:HZ	2.30	0.50
1:K8:91:VAL:HG11	1:K8:116:VAL:HG12	1.93	0.50
2:K9:281:ALA:O	2:K9:283:HIS:N	2.45	0.50
1:L0:77:ARG:HH21	1:L0:90:PHE:HD2	1.59	0.50
1:L0:260:PHE:HB2	1:L0:263:LEU:HD23	1.91	0.50
1:L4:233:MET:O	1:L4:236:ILE:HG22	2.12	0.50
2:M1:250:VAL:HG13	2:M1:254:GLU:HG3	1.93	0.50
2:M9:282:TYR:HD1	30:7K:25:ALA:HB1	1.74	0.50
2:M9:371:VAL:HG12	2:M9:373:ARG:H	1.76	0.50
1:N0:285:THR:OG1	1:N0:287:PRO:HD2	2.10	0.50
2:N3:208:ALA:CB	2:N3:304:LYS:HE3	2.41	0.50
1:O0:67:ASP:OD1	1:O0:67:ASP:N	2.44	0.50
1:O2:292:GLN:HG2	1:O2:298:ASN:ND2	2.26	0.50
2:O7:88:HIS:CD2	2:O7:90:GLU:HB3	2.45	0.50
2:O9:121:ARG:HD2	2:O9:124:LYS:HE3	1.93	0.50
1:P4:161:ASP:N	1:P4:161:ASP:OD1	2.43	0.50
2:P5:116:ASP:OD1	2:P5:117:LEU:N	2.44	0.50
1:P6:135:VAL:HG21	1:P6:152:ILE:HD11	1.94	0.50
1:P8:287:PRO:HA	1:P8:290:THR:HG22	1.91	0.50
2:P9:220:GLU:HG2	2:P9:221:ARG:HG3	1.93	0.50
1:Q8:177:ASP:N	1:Q8:181:GLU:OE2	2.45	0.50
2:R1:21:TRP:CZ3	2:R1:63:PRO:HB3	2.46	0.50
1:R2:389:PHE:O	1:R2:392:LYS:NZ	2.30	0.50
1:R6:139:LEU:HD12	1:R6:170:VAL:HG12	1.94	0.50
1:R6:148:GLY:O	1:R6:152:ILE:HG12	2.12	0.50
2:S1:320:ARG:O	2:S1:373:ARG:HA	2.11	0.50
1:S2:51:PHE:HB3	1:S2:59:TYR:HB3	1.93	0.50
2:T1:53:PHE:HB3	2:T1:61:HIS:HB3	1.93	0.50
2:T3:53:PHE:HB3	2:T3:61:HIS:HB3	1.93	0.50
2:T3:326:LYS:NZ	24:6X:37:ASN:HD21	2.09	0.50
1:T6:412:GLU:OE1	13:5K:51:THR:HG23	2.12	0.50
1:U2:375:GLN:NE2	1:U2:376:GLU:OE1	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U3:129:CYS:SG	2:U3:130:THR:N	2.84	0.50
2:U7:264:ARG:NH2	2:U7:431:ASP:OD2	2.45	0.50
2:U7:340:THR:HG23	2:U7:341:ILE:HG23	1.94	0.50
2:V9:56:THR:HG23	2:V9:60:LYS:HB3	1.94	0.50
1:X0:232:VAL:HG22	1:X0:270:PHE:HB2	1.93	0.50
1:X2:121:ARG:HG2	1:X2:125:GLU:OE1	2.11	0.50
1:X4:21:TRP:CZ3	1:X4:61:PRO:HB3	2.47	0.50
1:X6:30:ILE:HG13	1:X6:35:THR:C	2.31	0.50
2:X7:56:THR:HG22	2:Z3:285:GLN:HB3	1.93	0.50
2:X9:222:PRO:HD2	1:Y0:324:LYS:HE3	1.93	0.50
2:Y1:172:TYR:CE2	2:Y1:203:MET:HG2	2.46	0.50
2:Y5:223:THR:HG22	2:Y5:224:TYR:N	2.26	0.50
2:Y9:50:ASN:O	2:Y9:64:ARG:NH2	2.43	0.50
1:Z2:249:ASP:O	1:Z2:253:LEU:HG	2.11	0.50
2:Z9:27:GLU:OE2	2:Z9:243:ARG:NH1	2.43	0.50
2:Z9:208:ALA:O	2:Z9:212:ILE:HG12	2.11	0.50
1:0A:189:VAL:HA	1:0A:192:LEU:HB3	1.93	0.50
1:0E:8:GLN:NE2	1:0E:63:ALA:HB1	2.25	0.50
1:0E:83:GLN:O	1:0U:281:TYR:OH	2.22	0.50
1:0G:165:LEU:HD13	1:0G:167:PHE:CZ	2.44	0.50
2:0H:50:ASN:O	2:0H:64:ARG:NH2	2.45	0.50
2:0J:178:SER:HB2	1:0K:347:ASN:OD1	2.12	0.50
1:0K:386:THR:O	1:0K:390:ARG:HG3	2.12	0.50
1:0S:12:CYS:O	1:0S:16:ILE:HG12	2.12	0.50
1:0W:156:ARG:NH1	1:0W:197:ASP:OD1	2.44	0.50
1:0Y:8:GLN:CD	1:0Y:17:GLY:HA3	2.31	0.50
2:0Z:5:ILE:HG22	2:0Z:64:ARG:HB3	1.93	0.50
2:1B:69:ASP:OD1	2:1B:70:LEU:N	2.44	0.50
1:1C:397:TRP:HZ2	2:1D:260:VAL:CG2	2.25	0.50
2:1D:88:HIS:NE2	2:1D:90:GLU:HB2	2.27	0.50
2:1L:333:ALA:O	2:1L:337:THR:HG23	2.11	0.50
1:1M:7:ILE:HB	1:1M:135:VAL:HG22	1.92	0.50
2:1N:317:LEU:HB3	2:1N:319:TYR:HE1	1.76	0.50
2:1Z:63:PRO:O	2:1Z:91:GLN:NE2	2.43	0.50
2:1Z:269:LEU:O	2:1Z:378:ILE:HD12	2.10	0.50
2:2D:69:ASP:OD1	2:2D:70:LEU:N	2.44	0.50
1:2E:116:VAL:HA	1:2E:119:VAL:HG12	1.94	0.50
2:2P:286:LEU:O	2:2P:373:ARG:NH1	2.44	0.50
1:2Q:280:GLN:OE1	10:5C:192:ARG:NH1	2.44	0.50
1:2S:282:ARG:HH21	1:2S:288:GLU:CD	2.15	0.50
2:2T:287:SER:OG	2:2T:288:VAL:N	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3A:125:GLU:OE2	1:3A:159:TYR:OH	2.30	0.50
1:3A:391:ARG:HD2	2:3B:346:TRP:CG	2.45	0.50
2:3D:11:GLN:OE1	2:3D:15:GLN:NE2	2.44	0.50
1:3G:128:ASP:OD1	1:3G:129:CYS:N	2.39	0.50
2:3H:280:LYS:HA	2:3H:283:HIS:HB3	1.93	0.50
2:3L:223:THR:HG22	2:3L:224:TYR:N	2.26	0.50
2:3N:405:VAL:HG13	2:3N:418:PHE:HE2	1.76	0.50
2:3P:179:THR:O	1:3Q:350:LYS:HD2	2.11	0.50
3:3V:90:ILE:O	3:3V:93:LYS:HB2	2.12	0.50
3:3Z:90:ILE:O	3:3Z:93:LYS:HB2	2.12	0.50
3:4B:90:ILE:O	3:4B:93:LYS:HB2	2.12	0.50
4:4C:50:MET:HG3	4:4C:159:ASN:HD22	1.77	0.50
3:4D:90:ILE:O	3:4D:93:LYS:HB2	2.12	0.50
3:4H:90:ILE:O	3:4H:93:LYS:HB2	2.12	0.50
7:4R:301:ARG:NH2	7:4R:301:ARG:CG	2.60	0.50
9:4Y:355:ALA:O	9:4Y:359:ARG:HG2	2.12	0.50
9:4Z:196:LYS:O	9:4Z:199:GLU:HG3	2.11	0.50
10:5B:250:LYS:O	10:5B:254:MET:HG3	2.11	0.50
15:5O:95:LEU:HD11	15:5O:221:TRP:HD1	1.75	0.50
15:5P:336:ARG:HA	15:5P:345:ALA:HB1	1.92	0.50
18:5X:214:TYR:O	18:5X:218:SER:OG	2.28	0.50
18:5Y:106:GLU:OE1	18:5Y:106:GLU:N	2.38	0.50
18:5Y:214:TYR:O	18:5Y:218:SER:OG	2.29	0.50
19:6E:182:PHE:O	19:6E:186:THR:HG22	2.12	0.50
22:6O:146:LEU:HD23	22:6O:234:GLY:HA2	1.94	0.50
23:6R:28:LYS:HE2	23:6R:28:LYS:CA	2.35	0.50
24:6X:185:ASP:OD1	24:6X:186:SER:N	2.43	0.50
27:7G:109:ILE:HG13	27:7G:113:ILE:HB	1.93	0.50
31:7M:63:ARG:O	31:7M:76:THR:HG21	2.11	0.50
36:7V:46:LEU:HD22	36:7V:48:HIS:ND1	2.26	0.50
36:7W:46:LEU:HD22	36:7W:48:HIS:ND1	2.26	0.50
38:8A:82:ASP:OD1	38:8A:82:ASP:N	2.37	0.50
1:A3:40:SER:C	26:7F:25:TYR:CE2	2.84	0.50
2:E9:88:HIS:HE1	2:G5:280:LYS:HA	1.74	0.50
2:I1:147:SER:HB2	2:I1:190:SER:OG	2.11	0.50
1:I2:173:PRO:HG2	1:I2:174:LYS:HZ2	1.76	0.50
1:I2:358:PRO:HG2	1:I2:361:LEU:HB2	1.93	0.50
2:I3:363:VAL:HG23	2:I3:366:GLY:HA3	1.94	0.50
1:I4:174:LYS:HD2	1:I4:174:LYS:H	1.76	0.50
2:I7:387:ILE:HG12	2:I7:390:ARG:HH22	1.76	0.50
1:I8:215:LEU:HB3	1:I8:217:LEU:HG	1.91	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J4:33:THR:HG21	5:4M:120:ARG:CD	2.42	0.50
2:J5:98:ASP:OD1	2:J5:99:ALA:N	2.44	0.50
2:J7:50:ASN:O	2:J7:64:ARG:NH2	2.44	0.50
2:K1:156:ARG:HA	2:K1:159:VAL:HG12	1.94	0.50
1:K6:131:GLN:HE21	1:K6:250:LEU:HB2	1.77	0.50
1:K8:7:ILE:HB	1:K8:135:VAL:HG22	1.92	0.50
1:L2:350:LYS:NZ	1:L2:351:SER:O	2.41	0.50
2:L3:53:PHE:HB3	2:L3:61:HIS:HB3	1.94	0.50
1:L6:350:LYS:NZ	1:L6:351:SER:O	2.42	0.50
2:L9:333:ALA:O	2:L9:337:THR:HG23	2.12	0.50
1:M2:396:HIS:H	1:M2:396:HIS:CD2	2.30	0.50
1:M8:244:GLY:H	1:M8:247:ASN:HD21	1.60	0.50
2:O5:79:ARG:NH1	2:O5:94:SER:OG	2.44	0.50
2:O9:109:THR:HB	2:O9:110:ILE:HD12	1.94	0.50
1:P8:382:SER:HB2	1:P8:415:MET:HG2	1.93	0.50
2:P9:5:ILE:HD11	2:P9:135:PHE:HE1	1.75	0.50
2:Q1:27:GLU:HG3	2:Q1:361:THR:HG21	1.94	0.50
2:Q1:56:THR:OG1	2:R7:285:GLN:N	2.45	0.50
1:Q8:36:TYR:HD1	1:Q8:59:TYR:HE2	1.59	0.50
1:R0:22:GLU:HG3	1:R0:81:TYR:CD1	2.47	0.50
2:R3:6:SER:O	2:R3:65:CYS:HA	2.10	0.50
1:S8:67:ASP:N	1:S8:67:ASP:OD1	2.44	0.50
1:T4:362:LYS:HG3	1:T4:363:MET:HG3	1.93	0.50
2:T5:33:ASP:O	2:T5:60:LYS:NZ	2.41	0.50
1:T6:113:ILE:HD11	1:T6:151:LEU:HD13	1.94	0.50
2:T7:339:ARG:HH21	13:5K:24:VAL:CG1	2.24	0.50
2:U1:287:SER:OG	2:U1:288:VAL:N	2.44	0.50
1:U6:282:ARG:NH2	1:U6:284:LEU:HD13	2.27	0.50
2:V9:76:ASP:OD1	1:W0:46:ARG:NH2	2.45	0.50
2:V9:287:SER:N	2:V9:290:GLU:OE2	2.20	0.50
2:V9:297:GLU:OE2	2:V9:308:ARG:NH2	2.43	0.50
1:W2:317:PHE:HE2	1:W2:326:VAL:HG13	1.75	0.50
1:W4:211:CYS:HA	1:W4:215:LEU:HB2	1.94	0.50
1:W4:233:MET:O	1:W4:237:THR:HG22	2.12	0.50
2:Y3:22:GLU:HG2	2:Y3:83:TYR:CE2	2.45	0.50
2:Y3:88:HIS:CE1	2:Z9:283:HIS:HA	2.46	0.50
2:Y3:115:VAL:HG21	2:Y3:152:LEU:HD23	1.92	0.50
2:Y3:180:ALA:HB1	1:Y4:256:ASN:HD21	1.76	0.50
2:Y5:254:GLU:OE2	2:Y5:254:GLU:N	2.44	0.50
1:Y8:327:ASP:O	1:Y8:331:LEU:HG	2.10	0.50
2:Z1:8:HIS:CD2	2:Z1:138:PHE:HD2	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z2:86:ARG:HG2	1:Z2:88:ASP:H	1.76	0.50
1:Z2:272:PRO:O	1:Z2:273:LEU:HD23	2.12	0.50
1:Z4:239:CYS:HB2	1:Z4:316:LEU:HD11	1.94	0.50
2:Z5:15:GLN:HB3	2:Z5:228:ASN:ND2	2.25	0.50
1:0I:91:VAL:HG21	1:0I:116:VAL:HG12	1.93	0.50
1:0I:244:GLY:H	1:0I:247:ASN:HD21	1.60	0.50
1:0K:123:GLU:O	1:0K:126:SER:OG	2.29	0.50
1:0K:371:SER:OG	1:0K:372:THR:N	2.44	0.50
2:0N:344:VAL:CG1	2:0N:347:CYS:HB3	2.41	0.50
1:0O:173:PRO:HB3	1:0O:384:GLN:HE22	1.77	0.50
2:0P:164:LYS:O	2:0P:166:LYS:NZ	2.45	0.50
1:0Y:167:PHE:HD1	1:0Y:200:MET:HB3	1.76	0.50
2:1F:217:LEU:HB3	2:1F:219:ILE:HD12	1.93	0.50
1:1K:193:VAL:HG12	1:1K:265:PHE:HZ	1.76	0.50
2:1L:83:TYR:HB3	2:1L:86:LEU:HB3	1.93	0.50
2:1N:291:ILE:HD12	2:1N:375:VAL:HG23	1.92	0.50
1:2E:186:THR:HG22	1:2E:411:ALA:HB1	1.94	0.50
2:2H:279:GLU:OE2	2:2H:279:GLU:HA	2.11	0.50
1:2K:286:VAL:HG21	1:2K:325:GLU:HB3	1.92	0.50
2:2L:212:ILE:O	2:2L:216:SER:OG	2.29	0.50
2:2L:284:GLU:HG3	2:2L:285:GLN:N	2.26	0.50
2:2N:320:ARG:NH2	2:2N:358:GLN:OE1	2.44	0.50
2:2P:259:LEU:HD11	2:2P:316:CYS:HB2	1.92	0.50
1:2U:114:ASP:N	1:2U:114:ASP:OD2	2.44	0.50
1:2Y:221:THR:HG23	1:2Y:223:GLY:H	1.76	0.50
2:2Z:279:GLU:H	2:2Z:279:GLU:CD	2.11	0.50
1:3A:199:CYS:HG	1:3A:265:PHE:HD1	1.58	0.50
2:3P:91:GLN:HE21	3:4F:36:PHE:HE2	1.59	0.50
2:3P:217:LEU:HB3	2:3P:219:ILE:HD12	1.92	0.50
1:3S:115:SER:O	1:3S:119:VAL:HG23	2.12	0.50
2:3T:287:SER:OG	2:3T:288:VAL:N	2.44	0.50
3:3X:13:THR:O	3:3X:17:VAL:HG13	2.11	0.50
4:4A:50:MET:HG3	4:4A:159:ASN:HD22	1.77	0.50
3:4B:13:THR:O	3:4B:17:VAL:HG13	2.11	0.50
4:4E:50:MET:HG3	4:4E:159:ASN:HD22	1.77	0.50
3:4F:13:THR:O	3:4F:17:VAL:HG13	2.11	0.50
14:5L:485:VAL:HG13	14:5L:518:TYR:OH	2.11	0.50
14:5L:520:PRO:HD3	14:5L:561:VAL:HG11	1.94	0.50
15:5P:283:GLU:OE1	15:5P:283:GLU:N	2.44	0.50
15:5P:327:ALA:HA	15:5P:343:LEU:CD2	2.41	0.50
17:5S:140:LEU:O	17:5S:144:LYS:HG3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:5T:140:LEU:O	17:5T:144:LYS:HG3	2.11	0.50
18:5Z:214:TYR:O	18:5Z:218:SER:OG	2.29	0.50
18:6B:214:TYR:O	18:6B:218:SER:OG	2.28	0.50
22:6K:204:PHE:CB	22:6K:227:TYR:HE2	2.24	0.50
22:6L:177:LEU:HD21	22:6L:187:MET:CG	2.41	0.50
22:6M:130:LEU:HD23	22:6M:209:ASN:ND2	2.22	0.50
22:6P:183:ASN:OD1	22:6P:184:ALA:N	2.45	0.50
24:6T:123:TYR:HE2	24:6T:163:PRO:HG3	1.75	0.50
24:6T:183:ASP:OD1	24:6T:184:ALA:N	2.44	0.50
24:6V:371:ALA:HB1	24:6V:375:THR:OG1	2.11	0.50
24:6W:563:LYS:HA	24:6W:566:VAL:HG12	1.94	0.50
24:6Y:123:TYR:HD1	24:6Y:130:MET:SD	2.33	0.50
34:7S:205:LEU:HD12	36:7W:91:PRO:HG3	1.92	0.50
38:8C:163:PHE:O	38:8C:164:GLU:HB3	2.11	0.50
2:C9:220:GLU:HB3	18:5Z:160:ASP:OD1	2.10	0.50
1:E4:32:PRO:HG2	24:6V:403:PRO:HD2	1.93	0.50
1:G2:86:ARG:NH1	1:G2:89:ASN:OD1	2.45	0.50
2:G5:220:GLU:N	2:G5:220:GLU:OE2	2.45	0.50
1:H6:218:THR:CB	24:6V:488:ARG:HB3	2.40	0.50
2:I3:98:ASP:OD1	2:I3:99:ALA:N	2.45	0.50
2:I7:132:LEU:HD22	2:I7:164:LYS:HD3	1.93	0.50
1:I8:70:PRO:N	1:I8:92:PHE:HZ	2.09	0.50
2:J1:280:LYS:HA	2:J1:283:HIS:HB3	1.92	0.50
2:J5:294:ALA:HA	2:J5:297:GLU:OE1	2.11	0.50
1:J8:248:ALA:HA	1:J8:252:LYS:HD2	1.93	0.50
2:K1:21:TRP:NE1	2:K1:65:CYS:SG	2.84	0.50
2:K9:278:ALA:HA	2:K9:369:ALA:HB2	1.94	0.50
1:L0:392:LYS:HD2	1:L0:395:LEU:HD22	1.93	0.50
2:L3:288:VAL:HG13	2:L3:319:TYR:HE2	1.77	0.50
2:L5:116:ASP:N	2:L5:116:ASP:OD1	2.42	0.50
1:M2:5:VAL:HG12	1:M2:133:PHE:HD1	1.77	0.50
1:M6:117:LEU:HA	1:M6:120:VAL:HG12	1.93	0.50
1:M8:211:CYS:HA	1:M8:215:LEU:HB2	1.93	0.50
2:N7:198:THR:HG21	2:N7:201:ALA:HB2	1.92	0.50
2:N7:429:GLU:O	2:N7:433:GLU:HG2	2.11	0.50
2:N9:287:SER:OG	2:N9:288:VAL:N	2.44	0.50
2:O1:203:MET:HB2	2:O1:303:VAL:HG21	1.92	0.50
1:O4:207:LEU:HB3	1:O4:225:LEU:HD22	1.92	0.50
2:O9:335:ILE:HG23	2:O9:341:ILE:HD11	1.94	0.50
2:P5:4:VAL:HG23	2:P5:134:GLY:O	2.10	0.50
1:Q0:319:GLY:O	1:Q0:321:MET:HG3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q3:333:ALA:O	2:Q3:337:THR:HG23	2.12	0.50
1:Q4:153:SER:HA	1:Q4:195:ASN:ND2	2.27	0.50
2:Q5:212:ILE:O	2:Q5:216:SER:OG	2.28	0.50
2:Q5:430:LYS:O	2:Q5:434:GLU:HG2	2.12	0.50
1:Q6:134:GLN:HE21	1:Q6:167:PHE:HE2	1.59	0.50
1:Q6:139:LEU:HD12	1:Q6:170:VAL:HG12	1.93	0.50
1:R0:121:ARG:NH2	1:R0:158:GLU:OE2	2.39	0.50
1:R4:52:ASN:OD1	1:R4:62:ARG:NH2	2.44	0.50
1:S2:359:LYS:HG3	12:5F:66:LYS:HG2	1.92	0.50
2:S5:223:THR:OG1	2:S5:224:TYR:N	2.45	0.50
1:S6:65:LEU:HD12	1:S6:90:PHE:CE1	2.46	0.50
2:S7:72:PRO:HD2	1:S8:2:ARG:HH12	1.75	0.50
1:S8:83:GLN:OE1	1:S8:83:GLN:N	2.35	0.50
1:T4:4:ILE:HB	1:T4:50:TYR:HE1	1.75	0.50
1:T4:186:THR:HG22	1:T4:411:ALA:HB1	1.93	0.50
1:T6:306:ARG:HD3	17:5U:49:MET:HB2	1.92	0.50
1:U4:173:PRO:HD2	1:U4:380:ARG:NE	2.27	0.50
2:U7:100:ALA:CA	1:U8:252:LYS:HG2	2.40	0.50
2:U7:175:PRO:HB3	2:U7:390:ARG:HD2	1.94	0.50
2:V3:72:PRO:HD2	1:V4:2:ARG:HH12	1.76	0.50
2:V7:253:THR:O	2:V7:257:THR:HG23	2.11	0.50
1:V8:173:PRO:HD2	1:V8:380:ARG:NH1	2.25	0.50
2:V9:5:ILE:HD11	2:V9:135:PHE:CE1	2.46	0.50
2:W1:167:LEU:HD13	2:W1:200:VAL:HB	1.94	0.50
2:W3:90:GLU:CG	2:W3:121:ARG:HD3	2.40	0.50
2:W3:90:GLU:HG3	2:W3:121:ARG:HD3	1.93	0.50
1:W6:70:PRO:N	1:W6:92:PHE:HZ	2.09	0.50
1:W8:31:ASP:HB2	1:W8:32:PRO:HD2	1.94	0.50
2:X3:2:ARG:HD2	2:X3:242:LEU:HD22	1.93	0.50
2:X3:3:GLU:O	2:X3:133:GLN:N	2.40	0.50
2:X5:70:LEU:HB3	2:X5:97:GLU:O	2.12	0.50
2:X9:183:GLU:CD	2:X9:184:PRO:HD3	2.32	0.50
1:Y0:83:GLN:O	1:Z6:281:TYR:OH	2.25	0.50
1:Y4:249:ASP:OD1	1:Y4:252:LYS:N	2.39	0.50
2:Y5:188:VAL:HA	2:Y5:191:THR:HG22	1.94	0.50
2:Y5:203:MET:HG3	2:Y5:303:VAL:HG21	1.93	0.50
1:Y8:86:ARG:HG2	1:Y8:88:ASP:H	1.77	0.50
1:Z4:122:LYS:O	1:Z4:126:SER:OG	2.21	0.50
2:Z5:174:SER:OG	2:Z5:175:PRO:HD2	2.12	0.50
1:Z8:204:ASN:ND2	39:Z8:501:GDP:HN22	2.10	0.50
1:0E:6:HIS:HE1	1:0E:8:GLN:HG3	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0F:208:ALA:O	2:0F:212:ILE:HG12	2.11	0.50
1:0W:275:SER:O	1:0W:279:GLN:HG3	2.10	0.50
2:0X:14:ILE:HD11	2:0X:74:VAL:HG22	1.93	0.50
2:1B:345:ASP:N	2:1B:345:ASP:OD1	2.45	0.50
2:1F:320:ARG:NH2	2:1F:359:PRO:O	2.45	0.50
2:1H:191:THR:HA	2:1H:194:LEU:HB3	1.93	0.50
1:1O:113:ILE:O	1:1O:117:LEU:HG	2.12	0.50
1:1Q:42:LEU:HA	1:1Q:45:GLU:OE2	2.11	0.50
2:1T:383:ALA:HA	2:1T:386:GLU:HG2	1.94	0.50
1:2A:114:ASP:OD1	1:2A:114:ASP:N	2.41	0.50
1:2A:150:LEU:O	1:2A:153:SER:OG	2.25	0.50
2:2B:156:ARG:HA	2:2B:159:VAL:HG12	1.94	0.50
1:2E:276:ARG:HH12	10:5A:413:GLU:CG	2.24	0.50
2:2H:88:HIS:HD1	2:2H:121:ARG:NH2	2.09	0.50
1:2I:274:THR:OG1	1:2I:279:GLN:HG2	2.12	0.50
1:2I:309:ARG:NH1	1:2I:339:SER:O	2.44	0.50
1:2I:418:LEU:HG	1:2I:422:TYR:HE2	1.77	0.50
2:2N:137:VAL:HG22	2:2N:168:GLY:HA2	1.93	0.50
1:2S:167:PHE:CE2	1:2S:233:MET:HG2	2.47	0.50
1:2S:208:TYR:HE1	1:2S:225:LEU:HD11	1.76	0.50
2:2T:9:ILE:HG22	2:2T:146:GLY:HA2	1.94	0.50
2:2T:48:ALA:HB2	38:8B:215:ALA:HB1	1.94	0.50
2:2V:108:TYR:O	2:2V:112:LYS:HG2	2.11	0.50
2:2V:217:LEU:HD21	2:2V:368:LEU:HD23	1.94	0.50
2:3B:346:TRP:CZ3	2:3B:347:CYS:HB2	2.46	0.50
1:3C:117:LEU:HD21	1:3C:121:ARG:HH22	1.77	0.50
1:3I:272:PRO:HB2	1:3I:282:ARG:HH12	1.76	0.50
2:3N:9:ILE:HG22	2:3N:146:GLY:HA2	1.92	0.50
2:3P:119:LEU:HA	2:3P:122:ILE:HG22	1.93	0.50
1:3S:7:ILE:HD13	1:3S:151:LEU:HD21	1.94	0.50
1:3S:266:PHE:HE1	1:3S:370:ASN:HD22	1.58	0.50
4:3W:50:MET:HG3	4:3W:159:ASN:HD22	1.77	0.50
4:3Y:50:MET:HG3	4:3Y:159:ASN:HD22	1.77	0.50
3:3Z:13:THR:O	3:3Z:17:VAL:HG13	2.11	0.50
4:4G:50:MET:HG3	4:4G:159:ASN:HD22	1.77	0.50
4:4I:50:MET:HG3	4:4I:159:ASN:HD22	1.77	0.50
3:4J:154:TYR:HD2	3:4J:158:LEU:HD11	1.77	0.50
10:5B:173:MET:O	10:5B:176:GLU:HG3	2.12	0.50
11:5E:185:ASP:HB3	11:5E:188:THR:HG23	1.93	0.50
14:5M:485:VAL:HG13	14:5M:518:TYR:OH	2.11	0.50
14:5M:520:PRO:HD3	14:5M:561:VAL:HG11	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:5N:186:THR:O	14:5N:186:THR:OG1	2.29	0.50
14:5N:415:LYS:HG2	23:6S:23:ILE:CD1	2.40	0.50
14:5N:485:VAL:HG13	14:5N:518:TYR:OH	2.11	0.50
14:5N:520:PRO:HD3	14:5N:561:VAL:HG11	1.94	0.50
15:5O:6:ARG:CD	15:5O:27:PHE:CE2	2.90	0.50
15:5O:22:TRP:NE1	15:5O:24:TYR:CE1	2.80	0.50
15:5P:20:ILE:HD11	19:6E:104:TYR:CZ	2.47	0.50
15:5P:213:THR:O	15:5P:217:GLU:HG3	2.12	0.50
16:5Q:36:THR:O	16:5Q:40:THR:HG23	2.12	0.50
17:5U:140:LEU:O	17:5U:144:LYS:HG3	2.11	0.50
18:6A:214:TYR:O	18:6A:218:SER:OG	2.29	0.50
18:6D:214:TYR:O	18:6D:218:SER:OG	2.29	0.50
19:6E:12:ASN:O	19:6E:38:ARG:NH1	2.44	0.50
20:6F:75:VAL:HB	20:6F:82:VAL:HG12	1.93	0.50
22:6M:323:ASP:O	22:6M:327:GLU:HG3	2.11	0.50
22:6P:31:TYR:O	22:6P:32:LYS:HG3	2.12	0.50
24:6U:123:TYR:CE2	24:6U:163:PRO:HG3	2.47	0.50
24:6V:450:VAL:HB	24:6V:469:PHE:CE2	2.47	0.50
24:6X:88:TRP:HA	24:6X:126:GLU:HG3	1.94	0.50
24:6X:376:LYS:HA	24:6X:390:MET:HE2	1.92	0.50
24:6Y:88:TRP:CZ3	24:6Y:89:VAL:HB	2.46	0.50
24:6Y:93:ARG:HD3	26:7F:45:MET:O	2.12	0.50
24:6Z:123:TYR:HE2	24:6Z:163:PRO:HG3	1.75	0.50
26:7E:58:ILE:H	26:7E:58:ILE:CD1	2.16	0.50
28:7H:429:ASP:OD1	28:7H:429:ASP:N	2.44	0.50
29:7J:383:GLY:HA2	29:7J:386:HIS:HD2	1.77	0.50
28:7X:429:ASP:OD1	28:7X:429:ASP:N	2.44	0.50
38:8C:83:ARG:HD3	38:8C:83:ARG:H	1.76	0.50
1:3:78:SER:CB	24:6U:149:LYS:HG3	2.39	0.50
2:4:29:GLY:C	26:7D:45:MET:HE1	2.30	0.50
2:G1:364:PRO:HB2	22:6L:165:MET:SD	2.51	0.50
1:G2:54:ALA:HB3	1:G2:58:ARG:HB3	1.93	0.50
2:H7:91:GLN:NE2	2:J3:283:HIS:HE1	2.08	0.50
2:I1:251:ASP:OD1	2:I1:254:GLU:HG2	2.12	0.50
1:I4:407:GLU:N	1:I4:407:GLU:OE1	2.41	0.50
1:I8:179:VAL:HG12	2:I9:258:ASN:HD22	1.77	0.50
1:I8:317:PHE:HB3	1:I8:321:MET:SD	2.51	0.50
1:J2:152:ILE:HD12	1:J2:164:MET:SD	2.51	0.50
2:J3:21:TRP:CZ3	2:J3:63:PRO:HB3	2.47	0.50
2:J3:84:ARG:HB3	16:5Q:138:ARG:HG2	1.92	0.50
2:J5:306:ASP:OD1	2:J5:308:ARG:HB2	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J7:213:CYS:HA	2:J7:217:LEU:HB2	1.92	0.50
2:K3:187:SER:O	2:K3:191:THR:HG23	2.12	0.50
1:L0:99:ASN:ND2	2:L1:254:GLU:OE1	2.34	0.50
2:L3:65:CYS:O	2:L3:91:GLN:HG2	2.11	0.50
2:L3:88:HIS:HE1	2:M9:284:GLU:HB3	1.76	0.50
1:L6:183:TYR:OH	1:L6:388:MET:HB3	2.11	0.50
2:L9:244:PHE:HB2	2:L9:356:ASN:HD21	1.76	0.50
1:M2:274:THR:HG22	1:M2:282:ARG:HH11	1.77	0.50
1:M6:51:PHE:O	37:7Y:110:TYR:OH	2.28	0.50
2:N1:223:THR:OG1	1:N2:245:GLN:NE2	2.31	0.50
2:N3:65:CYS:SG	2:N3:66:ILE:N	2.85	0.50
2:N5:65:CYS:SG	2:N5:66:ILE:N	2.85	0.50
2:N9:25:CYS:HA	2:N9:30:ILE:HG22	1.92	0.50
1:O2:39:ASP:OD2	1:O2:40:SER:N	2.44	0.50
1:O4:70:PRO:HG2	2:O5:2:ARG:HH11	1.77	0.50
2:O7:176:GLN:HE22	2:O7:304:LYS:HE2	1.77	0.50
2:O7:405:VAL:HG11	2:O7:415:GLU:OE2	2.12	0.50
1:O8:405:GLU:HA	1:O8:408:PHE:HD2	1.75	0.50
1:P4:65:LEU:HD12	1:P4:90:PHE:CE1	2.47	0.50
1:P4:304:ASP:OD2	1:P4:306:ARG:NH1	2.45	0.50
1:Q2:384:GLN:HG2	2:Q3:348:PRO:CB	2.42	0.50
2:R3:394:LYS:HB2	1:R4:346:PRO:HG3	1.93	0.50
1:S2:134:GLN:HE21	1:S2:167:PHE:HE2	1.60	0.50
1:S2:424:GLN:HE21	17:5V:104:PHE:HB2	1.77	0.50
1:S4:337:ASN:OD1	17:5R:49:MET:HG2	2.11	0.50
2:S5:405:VAL:HG11	2:S5:415:GLU:OE2	2.10	0.50
1:T0:157:GLU:OE1	3:4B:90:ILE:HD12	2.12	0.50
1:T0:404:ASP:OD2	1:T0:405:GLU:N	2.45	0.50
2:T3:27:GLU:OE1	2:T3:243:ARG:NH2	2.44	0.50
2:U5:317:LEU:HB3	2:U5:319:TYR:HE1	1.75	0.50
2:U7:195:LEU:HD21	2:U7:264:ARG:HH11	1.76	0.50
2:U7:305:CYS:HB3	2:U7:387:ILE:HD11	1.94	0.50
2:U9:222:PRO:CD	1:V0:324:LYS:HE3	2.41	0.50
2:V1:66:ILE:O	2:V1:66:ILE:HG13	2.10	0.50
2:V1:200:VAL:HG13	2:V1:268:MET:CE	2.41	0.50
1:V2:7:ILE:HB	1:V2:135:VAL:HG12	1.92	0.50
1:W0:86:ARG:HG2	1:W0:88:ASP:H	1.77	0.50
1:W0:101:TRP:HE3	1:W0:403:MET:HE1	1.76	0.50
1:W4:203:ASP:OD2	1:W4:302:ALA:N	2.43	0.50
2:W9:333:ALA:O	2:W9:337:THR:HG23	2.11	0.50
1:X2:412:GLU:O	1:X2:416:ASN:ND2	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X8:51:PHE:HB3	1:X8:59:TYR:HB3	1.93	0.50
2:Y1:191:THR:HA	2:Y1:194:LEU:HB2	1.93	0.50
1:Y8:285:THR:HG23	1:Y8:288:GLU:H	1.76	0.50
2:Z1:9:ILE:HG22	2:Z1:68:LEU:HD11	1.93	0.50
1:Z2:211:CYS:HA	1:Z2:215:LEU:HB2	1.94	0.50
2:Z3:101:ASN:OD1	1:Z4:252:LYS:HE3	2.12	0.50
2:Z3:246:GLY:HA3	2:Z3:356:ASN:HA	1.93	0.50
2:Z5:251:ASP:OD2	2:Z5:252:ILE:HD12	2.11	0.50
2:Z7:380:ASN:OD1	2:Z7:381:SER:N	2.44	0.50
1:0A:117:LEU:HD11	1:0A:154:LYS:HD2	1.93	0.50
1:0I:404:ASP:HB3	1:0I:406:MET:SD	2.51	0.50
1:0K:311:LEU:HD23	1:0K:312:THR:HG22	1.94	0.50
1:0M:344:TRP:CE3	1:0M:345:ILE:HG13	2.46	0.50
1:0Q:62:ARG:HG3	1:0Q:123:GLU:OE2	2.11	0.50
1:0S:105:HIS:CD2	1:0S:150:LEU:HD13	2.47	0.50
2:0V:254:GLU:HB3	2:0V:352:LYS:HE2	1.93	0.50
1:0W:113:ILE:HG21	1:0W:150:LEU:HD22	1.93	0.50
2:0Z:288:VAL:HG11	2:0Z:328:VAL:HG12	1.92	0.50
1:1C:174:LYS:HG3	1:1C:380:ARG:NH2	2.26	0.50
2:1D:288:VAL:O	2:1D:292:THR:OG1	2.25	0.50
1:1E:389:PHE:O	1:1E:392:LYS:NZ	2.31	0.50
2:1F:145:THR:OG1	41:1G:501:GTP:O1B	2.29	0.50
2:1H:98:ASP:OD1	2:1H:99:ALA:N	2.44	0.50
1:1K:396:HIS:CD2	1:1K:396:HIS:H	2.30	0.50
2:1L:145:THR:OG1	41:1L:501:GTP:O1B	2.29	0.50
2:1L:287:SER:OG	2:1L:288:VAL:N	2.44	0.50
2:1P:361:THR:HA	2:1P:370:LYS:NZ	2.27	0.50
1:2A:67:ASP:N	1:2A:67:ASP:OD1	2.42	0.50
2:2F:129:CYS:SG	2:2F:130:THR:N	2.85	0.50
2:2J:90:GLU:OE1	2:2J:90:GLU:CA	2.56	0.50
2:2J:161:TYR:CE1	38:8C:80:TYR:CB	2.94	0.50
2:2N:88:HIS:HB3	2:3D:283:HIS:CG	2.46	0.50
2:2P:5:ILE:HG22	2:2P:64:ARG:HB3	1.93	0.50
2:2P:372:GLN:HE22	10:5C:156:TYR:HA	1.77	0.50
2:2R:129:CYS:SG	2:2R:130:THR:N	2.85	0.50
2:2X:346:TRP:CZ3	2:2X:347:CYS:HB2	2.47	0.50
2:3B:6:SER:O	2:3B:65:CYS:HA	2.12	0.50
2:3B:66:ILE:HG13	2:3B:66:ILE:O	2.10	0.50
2:3D:65:CYS:SG	2:3D:66:ILE:N	2.84	0.50
1:3G:139:LEU:HD12	1:3G:170:VAL:HG12	1.93	0.50
1:3K:34:GLY:O	1:3K:58:ARG:HA	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3M:140:GLY:O	1:3M:184:ASN:ND2	2.44	0.50
1:3S:309:ARG:NH1	1:3S:341:PHE:O	2.41	0.50
1:3S:362:LYS:HE2	38:8D:166:GLU:HG2	1.89	0.50
2:3T:5:ILE:HG22	2:3T:64:ARG:HB3	1.92	0.50
4:3W:126:ASP:OD1	4:3W:130:ASN:ND2	2.45	0.50
4:4A:126:ASP:OD1	4:4A:130:ASN:ND2	2.45	0.50
4:4C:6:PHE:CE2	4:4C:8:SER:HB2	2.47	0.50
4:4C:126:ASP:OD1	4:4C:130:ASN:ND2	2.45	0.50
4:4E:126:ASP:OD1	4:4E:130:ASN:ND2	2.45	0.50
5:4L:284:LEU:O	5:4L:288:ILE:HG12	2.11	0.50
7:4U:77:ARG:HE	24:6Y:19:PRO:HG3	1.77	0.50
8:4V:460:ALA:O	8:4V:464:VAL:HG22	2.11	0.50
9:4Z:28:LEU:HD22	9:4Z:31:LEU:HD13	1.94	0.50
12:5F:286:SER:OG	12:5F:287:ASP:N	2.43	0.50
13:5K:126:VAL:HG12	13:5K:127:PRO:HD2	1.94	0.50
14:5L:24:HIS:CD2	14:5L:25:PRO:HD2	2.47	0.50
16:5Q:59:THR:HB	16:5Q:100:ILE:HG22	1.93	0.50
18:5X:106:GLU:OE1	18:5X:106:GLU:N	2.38	0.50
18:6C:214:TYR:O	18:6C:218:SER:OG	2.29	0.50
19:6E:243:ASN:OD1	19:6E:244:THR:N	2.44	0.50
22:6M:295:LYS:HD3	22:6M:343:TYR:OH	2.12	0.50
24:6V:416:ILE:HD12	24:6V:416:ILE:H	1.75	0.50
24:6X:123:TYR:CE2	24:6X:163:PRO:HG3	2.46	0.50
30:7K:36:LYS:O	30:7K:40:THR:HG23	2.11	0.50
30:7K:56:ARG:HD3	30:7K:57:GLN:H	1.75	0.50
30:7K:382:LEU:HD21	30:7K:434:ARG:HB3	1.94	0.50
30:7L:377:GLU:HA	30:7L:380:VAL:HG12	1.93	0.50
28:7X:399:VAL:HG23	28:7X:427:GLN:OE1	2.11	0.50
2:6:324:VAL:HG11	26:7D:142:PHE:HZ	1.76	0.50
2:B7:278:ALA:HB3	18:6B:43:ASN:ND2	2.21	0.50
1:E6:276:ARG:CZ	24:6W:314:GLY:H	2.24	0.50
1:G6:404:ASP:HB2	1:G6:406:MET:SD	2.51	0.50
2:H7:271:SER:HB2	2:H7:301:MET:HA	1.93	0.50
2:H9:101:ASN:ND2	2:H9:143:GLY:HA2	2.27	0.50
1:I2:139:LEU:HD12	1:I2:170:VAL:HG12	1.94	0.50
2:I5:49:PHE:HD2	2:I5:53:PHE:HB2	1.77	0.50
1:J4:5:VAL:HG12	1:J4:133:PHE:CD1	2.46	0.50
2:J5:379:SER:OG	2:J5:380:ASN:N	2.45	0.50
1:J6:364:SER:OG	1:J6:365:ALA:N	2.43	0.50
2:J9:8:HIS:CD2	2:J9:138:PHE:HD2	2.30	0.50
2:J9:21:TRP:CZ2	2:J9:65:CYS:HB3	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J9:282:TYR:HD1	5:4M:263:LEU:CD1	2.24	0.50
2:K3:217:LEU:HB3	2:K3:219:ILE:HD12	1.94	0.50
2:K5:327:ASP:N	2:K5:327:ASP:OD1	2.44	0.50
2:L3:206:ASN:OD1	41:L4:501:GTP:N2	2.44	0.50
2:L3:287:SER:OG	2:L3:288:VAL:N	2.45	0.50
1:L4:175:VAL:HG22	2:L5:329:ASN:HD21	1.76	0.50
1:M2:130:LEU:HB2	1:M2:162:ARG:HE	1.77	0.50
2:M5:88:HIS:HD2	2:M5:89:PRO:CD	2.24	0.50
2:N3:227:LEU:O	2:N3:231:ILE:HG12	2.11	0.50
2:N7:405:VAL:HG13	2:N7:418:PHE:HE2	1.77	0.50
2:O1:429:GLU:O	2:O1:433:GLU:HG2	2.11	0.50
1:O4:139:LEU:HD12	1:O4:170:VAL:HG12	1.92	0.50
2:O9:14:ILE:HD11	2:O9:74:VAL:HG13	1.94	0.50
2:P3:5:ILE:HG22	2:P3:64:ARG:HB3	1.94	0.50
2:P3:338:LYS:HZ2	2:P3:339:ARG:H	1.59	0.50
2:P3:392:ASP:OD2	2:P3:422:ARG:NH1	2.45	0.50
2:P5:402:ARG:NE	2:P5:415:GLU:OE2	2.44	0.50
2:Q5:92:LEU:N	2:Q5:92:LEU:HD23	2.27	0.50
1:Q6:204:ASN:HD21	39:Q6:502:GDP:HN22	1.59	0.50
1:Q8:418:LEU:O	1:Q8:421:GLU:HG2	2.12	0.50
1:R2:141:GLY:O	1:R2:145:SER:OG	2.15	0.50
2:R3:170:THR:HG21	2:R3:194:LEU:HD11	1.94	0.50
2:R5:336:LYS:O	2:R5:339:ARG:NH2	2.45	0.50
2:R7:69:ASP:OD1	2:R7:70:LEU:N	2.45	0.50
1:S4:186:THR:HG21	1:S4:385:PHE:CE2	2.46	0.50
1:S8:94:GLN:HB3	24:6W:35:TYR:CD1	2.47	0.50
2:T3:9:ILE:HD13	2:T3:150:GLY:HA2	1.93	0.50
2:T5:51:THR:HG21	2:T5:243:ARG:HG2	1.92	0.50
1:T6:186:THR:HG22	1:T6:411:ALA:HB1	1.93	0.50
2:U5:217:LEU:HB3	2:U5:219:ILE:HD12	1.93	0.50
2:U5:264:ARG:NH2	2:U5:431:ASP:OD2	2.26	0.50
2:U9:88:HIS:HB3	2:U9:91:GLN:CG	2.42	0.50
2:V1:277:SER:OG	2:V1:280:LYS:NZ	2.41	0.50
2:V3:172:TYR:N	2:V3:204:LEU:O	2.44	0.50
1:W0:202:LEU:CD2	1:W0:229:ILE:CD1	2.81	0.50
2:W1:246:GLY:HA3	2:W1:356:ASN:HA	1.94	0.50
1:W6:375:GLN:HB2	1:W6:419:VAL:HG13	1.92	0.50
2:W9:224:TYR:H	1:X0:245:GLN:HE22	1.60	0.50
2:X5:192:HIS:NE2	2:X5:420:GLU:OE2	2.44	0.50
1:X8:266:PHE:CE1	1:X8:370:ASN:HB2	2.47	0.50
1:Y2:249:ASP:O	1:Y2:253:LEU:HG	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y4:58:ARG:HH11	1:Y4:84:ILE:HA	1.75	0.50
1:Z0:113:ILE:HA	1:Z0:116:VAL:HG12	1.94	0.50
2:Z3:116:ASP:N	2:Z3:116:ASP:OD1	2.43	0.50
1:Z4:21:TRP:CH2	1:Z4:61:PRO:HB3	2.46	0.50
2:Z5:259:LEU:HD21	2:Z5:316:CYS:HB2	1.94	0.50
1:Z6:67:ASP:OD1	1:Z6:67:ASP:N	2.44	0.50
2:0B:213:CYS:HA	2:0B:217:LEU:HB2	1.94	0.50
2:0F:392:ASP:OD2	2:0F:422:ARG:NH1	2.44	0.50
2:0H:353:CYS:SG	2:0H:354:GLY:N	2.85	0.50
1:0K:12:CYS:O	1:0K:16:ILE:HG12	2.12	0.50
1:0O:193:VAL:HG11	1:0O:418:LEU:HD11	1.94	0.50
2:0P:407:TRP:NE1	1:0Q:258:ILE:O	2.38	0.50
1:0S:260:PHE:HB2	1:0S:263:LEU:HG	1.94	0.50
1:0Y:268:VAL:O	1:0Y:300:MET:N	2.42	0.50
1:1C:371:SER:OG	1:1C:372:THR:N	2.45	0.50
2:1D:176:GLN:HG2	2:1D:177:VAL:N	2.27	0.50
2:1H:69:ASP:OD2	2:1H:71:GLU:N	2.40	0.50
2:1L:116:ASP:OD1	2:1L:117:LEU:N	2.43	0.50
2:1L:133:GLN:HB3	2:1L:252:ILE:HG21	1.93	0.50
2:1P:203:MET:HE3	2:1P:267:PHE:HD1	1.77	0.50
1:1Q:290:THR:HG21	1:1Q:329:GLN:HG3	1.92	0.50
2:1T:3:GLU:HG3	2:1T:51:THR:HA	1.93	0.50
1:1U:174:LYS:HD2	1:1U:174:LYS:H	1.77	0.50
2:1V:179:THR:O	1:1W:350:LYS:HD2	2.12	0.50
1:2A:289:LEU:HD11	1:2A:363:MET:HG2	1.94	0.50
2:2B:277:SER:OG	2:2B:278:ALA:N	2.43	0.50
1:2E:253:LEU:HD11	1:2E:316:LEU:HD21	1.94	0.50
2:2N:306:ASP:HB3	2:2N:309:HIS:HD2	1.76	0.50
1:2Q:207:LEU:HB3	1:2Q:225:LEU:HD22	1.92	0.50
1:2W:140:GLY:O	1:2W:184:ASN:ND2	2.35	0.50
1:3C:205:GLU:OE1	1:3C:205:GLU:N	2.39	0.50
2:3F:116:ASP:N	2:3F:116:ASP:OD1	2.42	0.50
2:3H:367:ASP:OD1	2:3H:367:ASP:N	2.45	0.50
1:3K:213:ARG:HB2	1:3K:297:LYS:HZ2	1.76	0.50
1:3K:391:ARG:NH2	2:3L:435:VAL:HA	2.26	0.50
1:3M:53:GLU:HG2	1:3M:59:TYR:CE1	2.47	0.50
1:3M:122:LYS:NZ	3:4D:262:TYR:HA	2.27	0.50
2:3N:287:SER:OG	2:3N:288:VAL:N	2.45	0.50
2:3T:135:PHE:O	2:3T:136:LEU:HD12	2.11	0.50
3:3V:13:THR:O	3:3V:17:VAL:HG13	2.11	0.50
4:3Y:101:ARG:NH1	4:3Y:116:PRO:O	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:3Y:126:ASP:OD1	4:3Y:130:ASN:ND2	2.45	0.50
4:4A:8:SER:OG	4:4A:9:GLY:N	2.44	0.50
4:4A:101:ARG:NH1	4:4A:116:PRO:O	2.44	0.50
4:4C:8:SER:OG	4:4C:9:GLY:N	2.44	0.50
3:4D:13:THR:O	3:4D:17:VAL:HG13	2.11	0.50
4:4E:6:PHE:CE2	4:4E:8:SER:HB2	2.47	0.50
4:4E:101:ARG:NH1	4:4E:116:PRO:O	2.44	0.50
4:4G:8:SER:OG	4:4G:9:GLY:N	2.44	0.50
3:4H:13:THR:O	3:4H:17:VAL:HG13	2.11	0.50
5:4M:98:PRO:HB3	5:4M:102:ARG:HH21	1.77	0.50
5:4M:293:LEU:HB2	28:7X:306:LEU:CD2	2.39	0.50
9:4Z:360:THR:O	9:4Z:363:LEU:HG	2.12	0.50
10:5B:203:GLU:O	10:5B:207:VAL:HG23	2.12	0.50
11:5E:103:VAL:HB	11:5E:104:PRO:HD3	1.93	0.50
13:5J:126:VAL:HG12	13:5J:127:PRO:HD2	1.94	0.50
14:5L:356:PHE:HZ	14:5L:369:LEU:HD13	1.76	0.50
14:5M:24:HIS:CD2	14:5M:25:PRO:HD2	2.47	0.50
14:5M:356:PHE:HZ	14:5M:369:LEU:HD13	1.76	0.50
14:5N:24:HIS:CD2	14:5N:25:PRO:HD2	2.47	0.50
15:5O:52:TYR:CE2	15:5O:55:LEU:CD2	2.93	0.50
15:5O:102:ALA:HB2	15:5O:204:ALA:CB	2.42	0.50
24:6T:18:LEU:O	24:6T:20:GLN:NE2	2.45	0.50
24:6U:371:ALA:HB1	24:6U:375:THR:OG1	2.12	0.50
24:6Z:316:ASP:OD2	24:6Z:317:PRO:HD2	2.12	0.50
24:7A:213:TYR:HH	24:7A:217:PHE:HE2	1.59	0.50
30:7K:161:ALA:HA	30:7K:164:VAL:HG12	1.93	0.50
35:7U:175:SER:OG	35:7U:179:ARG:NH2	2.44	0.50
37:7Y:164:HIS:O	37:7Y:168:THR:HG23	2.11	0.50
1:A3:273:LEU:CD2	26:7F:134:LEU:HD21	2.41	0.50
2:B7:80:THR:HG22	18:6B:169:LYS:O	2.11	0.50
1:C8:11:GLN:N	39:C8:502:GDP:O1B	2.45	0.50
1:D0:47:ILE:HD11	22:6L:23:TYR:CD1	2.46	0.50
2:H1:246:GLY:HA3	2:H1:356:ASN:HA	1.94	0.50
2:H5:21:TRP:CD1	2:H5:87:PHE:HZ	2.29	0.50
2:H5:203:MET:HE1	2:H5:267:PHE:HD1	1.77	0.50
2:I1:85:GLN:HA	2:J7:283:HIS:HE1	1.77	0.50
2:I3:72:PRO:HD2	1:I4:2:ARG:HH12	1.77	0.50
2:I3:155:GLU:O	2:I3:158:SER:OG	2.29	0.50
2:I5:115:VAL:HG22	2:I5:119:LEU:HD13	1.94	0.50
2:I5:381:SER:OG	2:I5:382:THR:N	2.45	0.50
2:I7:50:ASN:O	2:I7:64:ARG:NH2	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I8:19:LYS:O	1:I8:23:VAL:HG23	2.12	0.50
1:J0:25:SER:OG	1:J0:30:ILE:O	2.30	0.50
2:J1:53:PHE:HB3	2:J1:61:HIS:HB3	1.92	0.50
2:J1:156:ARG:HA	2:J1:159:VAL:HG22	1.94	0.50
1:K0:165:LEU:HD21	1:K0:250:LEU:HD11	1.93	0.50
2:K1:312:TYR:CD1	2:K1:381:SER:HB2	2.46	0.50
2:K1:392:ASP:OD1	2:K1:425:LEU:HD22	2.12	0.50
1:L6:334:GLN:NE2	1:L6:348:ASN:H	2.08	0.50
1:M0:67:ASP:N	1:M0:67:ASP:OD1	2.43	0.50
2:M1:69:ASP:OD1	2:M1:71:GLU:N	2.45	0.50
1:M4:140:GLY:O	1:M4:184:ASN:ND2	2.44	0.50
1:M4:273:LEU:H	1:M4:292:GLN:HE22	1.59	0.50
2:M7:53:PHE:HB3	2:M7:61:HIS:HB3	1.93	0.50
1:N6:77:ARG:HD3	1:N6:90:PHE:CE2	2.47	0.50
1:N8:358:PRO:HG2	1:N8:361:LEU:HD12	1.94	0.50
1:O0:3:GLU:HB2	1:O0:130:LEU:HD13	1.92	0.50
1:O2:322:SER:O	1:O2:325:GLU:HG2	2.11	0.50
2:O3:222:PRO:HD2	1:O4:324:LYS:HE3	1.93	0.50
1:O6:175:VAL:HG22	2:O7:329:ASN:HD21	1.76	0.50
2:P7:313:MET:N	2:P7:380:ASN:O	2.40	0.50
1:P8:358:PRO:HG2	1:P8:361:LEU:HD13	1.93	0.50
2:P9:315:CYS:SG	2:P9:316:CYS:N	2.85	0.50
1:Q0:167:PHE:HE2	1:Q0:233:MET:HG3	1.77	0.50
1:Q0:292:GLN:HG2	1:Q0:298:ASN:ND2	2.27	0.50
1:R0:238:CYS:SG	1:R0:318:ARG:NE	2.85	0.50
1:R2:102:ALA:HB1	1:R2:401:GLU:CB	2.41	0.50
2:R3:129:CYS:SG	2:R3:130:THR:N	2.85	0.50
1:R4:37:HIS:HE1	11:5E:160:ARG:HG3	1.76	0.50
1:R4:382:SER:HB2	1:R4:415:MET:HG2	1.94	0.50
2:R5:300:SER:O	2:R5:300:SER:OG	2.29	0.50
2:R7:119:LEU:HA	2:R7:122:ILE:HG22	1.92	0.50
1:R8:263:LEU:HD11	1:R8:425:TYR:CD2	2.46	0.50
2:S1:33:ASP:O	2:S1:60:LYS:NZ	2.43	0.50
2:S5:326:LYS:NZ	24:6T:37:ASN:HD21	2.09	0.50
1:S6:396:HIS:HA	1:S6:399:THR:HG22	1.94	0.50
1:S6:397:TRP:HZ2	2:S7:256:GLN:HB3	1.77	0.50
2:S7:156:ARG:HA	2:S7:159:VAL:HG12	1.94	0.50
1:S8:134:GLN:HE21	1:S8:167:PHE:HE2	1.60	0.50
2:T5:53:PHE:HB3	2:T5:61:HIS:HB3	1.94	0.50
1:T6:36:TYR:CE2	1:T6:44:LEU:HD11	2.47	0.50
1:T8:20:PHE:HA	1:T8:230:SER:OG	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T8:176:SER:OG	1:T8:181:GLU:OE1	2.22	0.50
1:U6:36:TYR:CZ	1:U6:44:LEU:HD21	2.46	0.50
1:V2:275:SER:O	1:V2:279:GLN:HG3	2.11	0.50
1:V6:19:LYS:HE2	1:V6:227:HIS:HB2	1.94	0.50
1:V6:105:HIS:CD2	1:V6:150:LEU:HB2	2.46	0.50
2:W1:107:HIS:CD2	2:W1:152:LEU:HB2	2.47	0.50
2:W5:254:GLU:HB3	2:W5:352:LYS:HE2	1.93	0.50
1:W8:285:THR:HG23	1:W8:287:PRO:HD2	1.93	0.50
1:X0:42:LEU:CB	8:4X:97:PHE:CE1	2.92	0.50
1:X2:52:ASN:OD1	1:X2:62:ARG:NH2	2.45	0.50
1:X4:418:LEU:O	1:X4:421:GLU:HG2	2.12	0.50
1:X8:20:PHE:HA	1:X8:230:SER:OG	2.11	0.50
1:X8:274:THR:HB	1:X8:282:ARG:HH11	1.75	0.50
2:Y3:18:ASN:O	2:Y3:22:GLU:HG3	2.12	0.50
1:Y8:31:ASP:OD2	1:Y8:33:THR:OG1	2.19	0.50
2:Y9:210:TYR:CE1	2:Y9:227:LEU:HD21	2.47	0.50
2:Z1:115:VAL:HG23	2:Z1:153:LEU:HD13	1.93	0.50
1:Z2:31:ASP:OD2	1:Z2:33:THR:OG1	2.24	0.50
1:Z4:190:HIS:CD2	1:Z4:414:ASN:HB2	2.46	0.50
1:Z8:20:PHE:HA	1:Z8:230:SER:OG	2.10	0.50
1:0E:391:ARG:CG	2:0F:346:TRP:HB3	2.42	0.50
2:0F:213:CYS:HA	2:0F:217:LEU:HB2	1.94	0.50
2:0H:90:GLU:H	2:0X:283:HIS:CE1	2.29	0.50
2:0H:246:GLY:HA3	2:0H:356:ASN:HA	1.93	0.50
1:0I:55:THR:O	1:0I:58:ARG:HG2	2.12	0.50
1:0O:49:VAL:HG11	1:0O:241:ARG:HG2	1.92	0.50
2:0P:176:GLN:HG2	2:0P:177:VAL:H	1.77	0.50
1:0U:72:THR:O	1:0U:76:VAL:HG23	2.12	0.50
1:0U:263:LEU:HD22	1:0U:422:TYR:HE1	1.77	0.50
2:0V:209:ILE:HG21	2:0V:227:LEU:HG	1.93	0.50
2:0Z:58:ALA:C	9:4Z:165:ARG:CZ	2.79	0.50
2:0Z:88:HIS:HD2	2:0Z:89:PRO:CD	2.14	0.50
2:0Z:176:GLN:HG2	2:0Z:177:VAL:HG23	1.94	0.50
1:1A:67:ASP:OD2	1:1A:72:THR:OG1	2.18	0.50
1:1C:361:LEU:HD12	1:1C:362:LYS:N	2.26	0.50
2:1D:353:CYS:SG	2:1D:354:GLY:N	2.85	0.50
1:1G:31:ASP:OD1	1:1G:35:THR:N	2.34	0.50
2:1H:305:CYS:SG	2:1H:383:ALA:HB1	2.52	0.50
1:1K:72:THR:O	1:1K:76:VAL:HG23	2.12	0.50
1:1U:8:GLN:O	1:1U:66:MET:HG3	2.12	0.50
2:1V:264:ARG:NH2	2:1V:431:ASP:OD2	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2C:114:ASP:N	1:2C:114:ASP:OD1	2.44	0.50
1:2I:211:CYS:HA	1:2I:215:LEU:HB2	1.94	0.50
2:2N:196:GLU:OE2	2:2N:197:HIS:NE2	2.45	0.50
1:2S:39:ASP:OD2	1:2S:39:ASP:N	2.43	0.50
1:2U:5:VAL:HG23	1:2U:62:ARG:HG2	1.93	0.50
1:2W:177:ASP:O	2:2X:352:LYS:HA	2.11	0.50
2:2Z:21:TRP:CZ2	2:2Z:65:CYS:HB2	2.47	0.50
2:2Z:306:ASP:HB3	2:2Z:309:HIS:HD2	1.76	0.50
1:3A:371:SER:OG	1:3A:372:THR:N	2.44	0.50
1:3C:98:GLY:HA3	2:3D:253:THR:HG23	1.93	0.50
1:3C:245:GLN:HE21	38:8D:198:THR:CG2	2.25	0.50
2:3F:90:GLU:HG2	2:3F:121:ARG:HH22	1.77	0.50
2:3N:345:ASP:OD2	2:3N:346:TRP:HD1	1.95	0.50
2:3T:155:GLU:O	2:3T:159:VAL:HG13	2.12	0.50
2:3T:259:LEU:HD23	2:3T:268:MET:HG2	1.93	0.50
4:3W:8:SER:OG	4:3W:9:GLY:N	2.44	0.50
4:3Y:8:SER:OG	4:3Y:9:GLY:N	2.44	0.50
4:4A:6:PHE:CE2	4:4A:8:SER:HB2	2.47	0.50
4:4C:101:ARG:NH1	4:4C:116:PRO:O	2.44	0.50
4:4G:101:ARG:NH1	4:4G:116:PRO:O	2.44	0.50
4:4G:126:ASP:OD1	4:4G:130:ASN:ND2	2.45	0.50
4:4I:126:ASP:OD1	4:4I:130:ASN:ND2	2.45	0.50
9:4Y:433:ARG:NH1	9:4Y:443:GLU:OE2	2.44	0.50
9:4Y:442:MET:N	9:4Y:442:MET:SD	2.85	0.50
9:4Z:96:ASP:OD1	9:4Z:97:ARG:N	2.45	0.50
13:5H:126:VAL:HG12	13:5H:127:PRO:HD2	1.94	0.50
13:5I:126:VAL:HG12	13:5I:127:PRO:HD2	1.94	0.50
14:5N:356:PHE:HZ	14:5N:369:LEU:HD13	1.76	0.50
15:5O:56:LYS:CE	15:5O:56:LYS:N	2.73	0.50
15:5O:99:LYS:CD	15:5O:203:ASN:O	2.60	0.50
19:6E:8:TYR:HE1	19:6E:10:SER:HG	1.58	0.50
22:6L:65:ARG:HE	22:6L:101:ASN:HB2	1.76	0.50
22:6P:266:LYS:HA	22:6P:269:GLU:CG	2.41	0.50
24:6T:452:MET:HA	24:6T:530:PHE:HA	1.93	0.50
24:6U:97:ARG:H	24:6U:188:THR:CG2	2.24	0.50
24:6U:280:ASP:HA	24:6U:289:ARG:HB2	1.92	0.50
24:6U:498:LEU:HD23	24:6U:503:ILE:HD11	1.94	0.50
24:6W:536:ASP:HB3	24:6W:539:THR:HG23	1.94	0.50
24:6X:97:ARG:H	24:6X:188:THR:CG2	2.24	0.50
28:7H:306:LEU:O	28:7H:310:ARG:HG3	2.11	0.50
30:7K:307:ASP:N	30:7K:307:ASP:OD1	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:7M:68:HIS:CD2	31:7M:69:LYS:HG2	2.47	0.50
33:7Q:119:SER:OG	33:7Q:120:SER:N	2.45	0.50
35:7U:199:PHE:HD1	35:7U:202:ARG:HH12	1.60	0.50
37:7Y:46:ARG:O	37:7Y:48:PRO:HD3	2.12	0.50
37:7Y:177:ARG:CB	37:7Y:177:ARG:NH1	2.75	0.50
2:E7:62:VAL:HG22	2:G3:283:HIS:HD2	1.77	0.50
2:F9:145:THR:OG1	41:G0:501:GTP:O1B	2.30	0.50
2:G3:167:LEU:HD13	2:G3:200:VAL:HB	1.94	0.50
2:G5:217:LEU:HD22	2:G5:367:ASP:HB2	1.94	0.50
2:G7:274:PRO:HB2	2:G7:276:ILE:HG12	1.94	0.50
1:G8:91:VAL:HG21	1:G8:116:VAL:HG12	1.94	0.50
1:H2:301:CYS:SG	1:H2:302:ALA:N	2.84	0.50
2:H9:353:CYS:SG	2:H9:354:GLY:N	2.84	0.50
2:I3:213:CYS:HA	2:I3:217:LEU:HB2	1.94	0.50
1:I4:276:ARG:NH1	24:6Z:491:GLY:HA3	2.26	0.50
2:I9:379:SER:OG	2:I9:380:ASN:N	2.45	0.50
2:J3:88:HIS:CD2	2:K9:283:HIS:HB3	2.45	0.50
2:J9:11:GLN:OE1	2:J9:15:GLN:NE2	2.44	0.50
2:K3:90:GLU:OE2	2:L9:283:HIS:NE2	2.45	0.50
1:K4:86:ARG:HG2	1:K4:88:ASP:H	1.77	0.50
2:L1:96:LYS:HD2	1:L2:129:CYS:SG	2.52	0.50
2:M1:265:ILE:HD11	2:M1:435:VAL:HG21	1.93	0.50
1:M6:39:ASP:OD1	1:M6:39:ASP:N	2.45	0.50
2:M9:178:SER:HB3	2:M9:183:GLU:OE2	2.11	0.50
2:M9:251:ASP:OD2	2:M9:253:THR:HG22	2.11	0.50
2:N7:297:GLU:OE1	32:7O:15:VAL:HG23	2.12	0.50
2:O3:414:GLU:N	2:O3:414:GLU:OE1	2.45	0.50
1:O6:226:ASN:OD1	39:O6:502:GDP:N1	2.41	0.50
2:O7:259:LEU:HD11	2:O7:316:CYS:HB2	1.94	0.50
2:P3:413:MET:HB3	2:P3:417:GLU:OE2	2.11	0.50
2:P7:306:ASP:HB3	2:P7:309:HIS:HD2	1.75	0.50
1:Q0:3:GLU:HB2	1:Q0:130:LEU:HA	1.93	0.50
1:Q0:252:LYS:HE3	1:Q0:350:LYS:HE3	1.94	0.50
2:Q1:9:ILE:HG22	2:Q1:146:GLY:HA2	1.92	0.50
1:Q2:179:VAL:HB	2:Q3:258:ASN:HD22	1.77	0.50
1:Q2:204:ASN:HD21	39:Q2:502:GDP:HN22	1.59	0.50
2:Q3:413:MET:HB3	2:Q3:417:GLU:OE2	2.11	0.50
2:Q9:26:LEU:HD22	2:Q9:363:VAL:HG12	1.94	0.50
1:R4:237:THR:O	1:R4:237:THR:HG22	2.11	0.50
2:R5:14:ILE:HD11	2:R5:74:VAL:HG13	1.93	0.50
2:R5:212:ILE:HG23	2:R5:275:ILE:HD12	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R7:72:PRO:HD2	1:R8:2:ARG:NH1	2.27	0.50
1:S2:117:LEU:HA	1:S2:120:VAL:HG12	1.94	0.50
2:S7:237:SER:HA	2:S7:320:ARG:HD2	1.93	0.50
1:S8:11:GLN:NE2	2:S9:249:ASN:OD1	2.44	0.50
2:T3:239:THR:HG23	2:T3:243:ARG:NH1	2.26	0.50
1:T4:221:THR:HG21	31:7N:117:TRP:CZ2	2.47	0.50
2:T5:386:GLU:HG2	17:5U:27:PHE:HB3	1.93	0.50
2:T7:69:ASP:OD1	2:T7:70:LEU:N	2.41	0.50
2:U1:79:ARG:NH1	2:U1:94:SER:OG	2.45	0.50
1:U6:105:HIS:CD2	1:U6:150:LEU:HB2	2.46	0.50
2:U7:200:VAL:HG13	2:U7:268:MET:CE	2.42	0.50
1:V2:165:LEU:HD21	1:V2:250:LEU:CD1	2.40	0.50
1:V8:232:VAL:HG22	1:V8:270:PHE:HB2	1.93	0.50
1:W4:21:TRP:CZ3	1:W4:61:PRO:HB3	2.47	0.50
1:W4:328:GLU:O	1:W4:332:ASN:ND2	2.44	0.50
2:W5:154:LEU:HD21	2:W5:198:THR:HG22	1.93	0.50
1:X4:204:ASN:ND2	39:X4:502:GDP:HN22	2.10	0.50
2:X5:187:SER:O	2:X5:190:SER:OG	2.27	0.50
2:X5:330:ALA:O	2:X5:334:THR:HG23	2.11	0.50
1:X6:246:LEU:HD22	1:X6:352:SER:HA	1.93	0.50
2:Y5:426:ALA:O	2:Y5:430:LYS:HG3	2.12	0.50
1:Y6:333:VAL:HG23	1:Y6:336:LYS:HE2	1.94	0.50
2:Y9:175:PRO:HB3	2:Y9:390:ARG:HH21	1.77	0.50
1:Z0:51:PHE:HB3	1:Z0:59:TYR:HB3	1.93	0.50
2:Z1:157:LEU:HD13	2:Z1:166:LYS:HD3	1.94	0.50
1:Z4:379:LYS:HD3	1:Z4:419:VAL:HG21	1.94	0.50
2:Z7:220:GLU:OE2	2:Z7:221:ARG:NH1	2.45	0.50
2:Z9:15:GLN:HB3	2:Z9:228:ASN:ND2	2.26	0.50
1:0C:8:GLN:NE2	1:0C:14:ASN:HA	2.27	0.50
2:0J:246:GLY:HA3	2:0J:356:ASN:HA	1.94	0.50
1:0Q:237:THR:HG23	1:0Q:241:ARG:HE	1.76	0.50
1:0S:182:PRO:HG3	1:0S:384:GLN:HG3	1.93	0.50
1:0U:72:THR:O	1:0U:75:SER:OG	2.26	0.50
1:0U:86:ARG:HG2	1:0U:88:ASP:H	1.76	0.50
2:0V:108:TYR:HB2	2:0V:411:GLU:OE1	2.11	0.50
2:0X:183:GLU:HG3	2:0X:184:PRO:HD3	1.94	0.50
2:0X:203:MET:O	2:0X:204:LEU:HD23	2.12	0.50
2:1B:88:HIS:CD2	2:1R:283:HIS:HB3	2.47	0.50
2:1H:111:GLY:HA2	2:1H:114:ILE:HG22	1.94	0.50
1:1M:50:TYR:CE2	1:1M:241:ARG:HD3	2.47	0.50
1:1M:178:THR:OG1	1:1M:181:GLU:HG3	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1U:31:ASP:HB3	1:1U:37:HIS:HD2	1.76	0.50
1:2C:77:ARG:HE	1:2C:90:PHE:HE2	1.60	0.50
1:2E:167:PHE:CE2	1:2E:233:MET:HG2	2.47	0.50
2:2H:110:ILE:HD11	38:8B:6:LEU:HD23	1.94	0.50
2:2J:417:GLU:HA	2:2J:420:GLU:HG2	1.93	0.50
2:2P:8:HIS:CD2	2:2P:138:PHE:HD2	2.30	0.50
2:2P:239:THR:HG23	2:2P:243:ARG:HE	1.77	0.50
2:2R:223:THR:HG22	2:2R:224:TYR:N	2.26	0.50
2:2T:339:ARG:HB2	38:8A:35:GLU:OE1	2.11	0.50
1:2U:309:ARG:NH1	1:2U:339:SER:O	2.45	0.50
1:3A:67:ASP:OD1	1:3A:68:LEU:N	2.42	0.50
2:3B:214:ARG:HH22	38:8C:16:LYS:HB3	1.76	0.50
1:3C:334:GLN:NE2	1:3C:348:ASN:H	2.05	0.50
2:3D:90:GLU:H	2:3T:283:HIS:CE1	2.30	0.50
2:3J:213:CYS:HA	2:3J:217:LEU:HB2	1.94	0.50
1:3K:232:VAL:HG11	1:3K:268:VAL:HG11	1.94	0.50
1:3K:285:THR:HG23	1:3K:288:GLU:H	1.77	0.50
1:3O:280:GLN:HG2	38:8C:162:VAL:HG13	1.94	0.50
1:3Q:183:TYR:OH	1:3Q:388:MET:HB3	2.12	0.50
1:3S:53:GLU:OE2	1:3S:57:GLY:N	2.45	0.50
4:4E:8:SER:OG	4:4E:9:GLY:N	2.44	0.50
4:4I:8:SER:OG	4:4I:9:GLY:N	2.44	0.50
4:4I:101:ARG:NH1	4:4I:116:PRO:O	2.44	0.50
3:4J:184:LEU:HD11	3:4J:223:LYS:HG3	1.93	0.50
5:4L:244:ASP:N	5:4L:244:ASP:OD2	2.44	0.50
7:4S:3:ARG:NH1	7:4S:3:ARG:CG	2.73	0.50
8:4W:463:THR:CG2	8:4X:128:LEU:HD13	2.37	0.50
9:4Z:237:VAL:HG13	9:4Z:238:GLU:OE2	2.10	0.50
11:5E:205:GLU:O	11:5E:209:ILE:HG12	2.12	0.50
13:5J:55:VAL:HG13	13:5J:56:ASP:O	2.12	0.50
14:5L:426:LYS:N	14:5L:446:GLU:OE1	2.44	0.50
14:5L:480:SER:OG	14:5L:482:ASP:OD1	2.28	0.50
14:5M:426:LYS:N	14:5M:446:GLU:OE1	2.44	0.50
14:5N:127:ASN:N	14:5N:127:ASN:HD22	2.10	0.50
14:5N:149:PHE:HD2	38:8D:229:ASN:HD21	1.59	0.50
14:5N:426:LYS:N	14:5N:446:GLU:OE1	2.44	0.50
14:5N:480:SER:OG	14:5N:482:ASP:OD1	2.28	0.50
15:5O:38:VAL:HG23	15:5O:38:VAL:O	2.12	0.50
15:5P:128:LEU:HB3	15:5P:132:GLU:HG2	1.94	0.50
20:6F:56:GLU:OE2	20:6F:56:GLU:N	2.42	0.50
20:6F:159:ASP:N	20:6F:301:PRO:O	2.33	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:6T:345:ASP:OD2	24:6T:346:GLN:N	2.45	0.50
24:6U:183:ASP:OD1	24:6U:184:ALA:N	2.44	0.50
24:6Z:402:LYS:HE3	24:6Z:403:PRO:HD2	1.94	0.50
26:7E:50:SER:N	26:7E:55:THR:OG1	2.42	0.50
32:7P:208:MET:HB3	32:7P:209:PRO:HD2	1.94	0.50
37:7Y:141:THR:HG22	37:7Y:142:ARG:N	2.27	0.50
38:8C:92:GLU:HG3	38:8C:94:LYS:HE3	1.93	0.50
1:3:83:GLN:HB2	24:6U:177:ARG:HH22	1.77	0.49
1:7:33:THR:HG21	18:5Z:101:LYS:HE2	1.94	0.49
1:7:55:THR:HG21	24:6W:107:VAL:HG21	1.93	0.49
1:A3:282:ARG:C	1:T6:54:ALA:HB1	2.32	0.49
1:D6:143:THR:N	39:D6:501:GDP:O1B	2.44	0.49
1:E2:11:GLN:N	39:E2:501:GDP:O2B	2.29	0.49
1:F6:218:THR:N	24:6T:418:ASP:OD2	2.41	0.49
2:G1:362:VAL:HG13	2:G1:370:LYS:HD2	1.94	0.49
2:G3:68:LEU:HA	2:G3:93:ILE:O	2.12	0.49
2:G7:88:HIS:CD2	2:G7:89:PRO:CD	2.91	0.49
2:G9:212:ILE:O	2:G9:216:SER:OG	2.29	0.49
2:G9:245:ASP:N	2:G9:245:ASP:OD1	2.45	0.49
2:G9:338:LYS:HG3	2:G9:340:THR:HG22	1.93	0.49
2:H1:129:CYS:SG	2:H1:130:THR:N	2.85	0.49
1:H8:304:ASP:OD1	1:H8:306:ARG:NE	2.39	0.49
2:I1:109:THR:OG1	2:I1:411:GLU:OE2	2.29	0.49
2:I1:280:LYS:HA	2:I1:283:HIS:HB3	1.93	0.49
1:I2:185:ALA:O	1:I2:189:VAL:HG12	2.12	0.49
2:I3:129:CYS:SG	2:I3:130:THR:N	2.85	0.49
2:I7:119:LEU:HA	2:I7:122:ILE:HG12	1.94	0.49
1:J0:131:GLN:HE21	1:J0:250:LEU:HB3	1.75	0.49
2:J3:53:PHE:HB3	2:J3:61:HIS:HB3	1.94	0.49
2:J5:176:GLN:HE22	2:J5:304:LYS:HE2	1.76	0.49
2:J5:245:ASP:HA	5:4L:477:ARG:HH21	1.77	0.49
2:J9:311:LYS:NZ	2:J9:343:PHE:O	2.40	0.49
2:K1:276:ILE:HG23	2:K1:280:LYS:HB2	1.93	0.49
2:K3:223:THR:HA	1:K4:323:THR:HG22	1.94	0.49
2:L3:276:ILE:CD1	2:L3:281:ALA:CA	2.86	0.49
1:L4:2:ARG:HB3	1:L4:131:GLN:HB2	1.93	0.49
1:M0:117:LEU:HA	1:M0:120:VAL:HG12	1.94	0.49
1:M2:7:ILE:HB	1:M2:135:VAL:HG12	1.92	0.49
2:M3:69:ASP:OD1	2:M3:71:GLU:N	2.45	0.49
2:M3:387:ILE:HG12	2:M3:390:ARG:HH22	1.77	0.49
2:M7:116:ASP:N	2:M7:116:ASP:OD1	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M7:221:ARG:HG2	2:M7:221:ARG:O	2.11	0.49
1:N0:317:PHE:HB3	1:N0:321:MET:SD	2.52	0.49
1:N6:68:LEU:HB3	1:N6:96:GLY:HA2	1.94	0.49
2:N9:7:ILE:HD11	2:N9:137:VAL:HG22	1.94	0.49
2:O9:277:SER:OG	2:O9:278:ALA:N	2.44	0.49
1:P4:117:LEU:HA	1:P4:120:VAL:HG12	1.93	0.49
2:P5:241:SER:HB2	2:P5:249:ASN:HB2	1.93	0.49
1:Q6:66:MET:SD	1:Q6:147:MET:HG2	2.52	0.49
1:Q8:44:LEU:HA	1:Q8:47:ILE:HD11	1.93	0.49
1:R0:186:THR:HG22	1:R0:411:ALA:HB1	1.92	0.49
1:R4:320:ARG:HH21	7:4R:102:ILE:HD11	1.76	0.49
2:R9:69:ASP:OD2	2:R9:70:LEU:N	2.45	0.49
1:S8:52:ASN:OD1	1:S8:62:ARG:NH2	2.45	0.49
1:T4:122:LYS:HA	3:4F:65:SER:OG	2.12	0.49
2:T5:88:HIS:HD2	2:T5:121:ARG:HH12	1.58	0.49
2:U1:210:TYR:CE1	1:U2:324:LYS:HB2	2.47	0.49
1:U2:273:LEU:O	1:U2:292:GLN:NE2	2.43	0.49
1:V8:77:ARG:O	1:V8:83:GLN:NE2	2.45	0.49
2:V9:234:VAL:HG13	2:V9:376:CYS:SG	2.52	0.49
1:W0:309:ARG:NH1	1:W0:339:SER:O	2.45	0.49
2:W1:221:ARG:HG2	1:W2:325:GLU:OE2	2.12	0.49
2:W3:265:ILE:HD11	2:W3:435:VAL:HG21	1.93	0.49
1:X2:101:TRP:HE3	1:X2:403:MET:HE1	1.77	0.49
1:X2:404:ASP:OD2	1:X2:405:GLU:N	2.44	0.49
1:X8:309:ARG:NH1	1:X8:339:SER:O	2.45	0.49
2:Y1:173:PRO:HB3	2:Y1:183:GLU:HG2	1.93	0.49
1:Y2:130:LEU:HB2	1:Y2:162:ARG:HE	1.76	0.49
1:Y2:207:LEU:HB3	1:Y2:225:LEU:HD22	1.93	0.49
2:Y3:22:GLU:HG2	2:Y3:83:TYR:OH	2.12	0.49
2:Y3:132:LEU:HD23	2:Y3:164:LYS:HE3	1.93	0.49
2:Y3:305:CYS:HB3	2:Y3:387:ILE:HD11	1.94	0.49
2:Y9:24:TYR:HE1	2:Y9:236:SER:OG	1.95	0.49
2:Y9:286:LEU:HG	2:Y9:373:ARG:NH1	2.27	0.49
1:Z0:21:TRP:HA	1:Z0:24:VAL:HG12	1.94	0.49
1:0A:379:LYS:HD3	1:0A:419:VAL:HG21	1.93	0.49
1:0A:404:ASP:HB3	1:0A:406:MET:SD	2.52	0.49
2:0H:100:ALA:HA	1:0I:252:LYS:HE2	1.94	0.49
1:0K:393:ALA:C	1:0K:395:LEU:N	2.65	0.49
1:0Q:8:GLN:CD	1:0Q:17:GLY:HA3	2.32	0.49
1:0Q:12:CYS:HB2	39:0Q:502:GDP:C8	2.46	0.49
1:0U:334:GLN:NE2	1:0U:348:ASN:H	2.09	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0W:97:ALA:HA	1:0W:103:LYS:HE3	1.94	0.49
1:0Y:272:PRO:O	1:0Y:273:LEU:HD23	2.12	0.49
1:1A:7:ILE:HB	1:1A:135:VAL:HG22	1.93	0.49
1:1G:374:ILE:HD11	1:1G:422:TYR:CZ	2.47	0.49
1:1M:144:GLY:N	39:1M:501:GDP:O1B	2.44	0.49
2:1N:230:LEU:HD12	2:1N:231:ILE:HD13	1.92	0.49
1:1O:114:ASP:N	1:1O:114:ASP:OD1	2.43	0.49
1:1S:192:LEU:HD22	1:1S:196:ALA:HB2	1.92	0.49
1:1U:385:PHE:HZ	1:1U:408:PHE:HD1	1.60	0.49
1:2C:215:LEU:HB3	1:2C:217:LEU:HG	1.94	0.49
1:2E:273:LEU:H	1:2E:292:GLN:HE22	1.60	0.49
1:2M:335:ASN:O	1:2M:338:SER:OG	2.30	0.49
2:2P:53:PHE:HB3	2:2P:61:HIS:HB3	1.94	0.49
2:2P:261:PRO:HG2	2:2P:265:ILE:HD11	1.94	0.49
1:2Q:212:PHE:HZ	38:8A:117:TRP:HB3	1.77	0.49
2:2X:69:ASP:OD1	2:2X:70:LEU:N	2.45	0.49
2:2Z:286:LEU:O	2:2Z:373:ARG:NH1	2.45	0.49
1:3A:244:GLY:HA2	1:3A:355:ASP:OD2	2.13	0.49
2:3D:5:ILE:HD11	2:3D:135:PHE:CE2	2.48	0.49
1:3G:72:THR:O	1:3G:76:VAL:HG23	2.11	0.49
2:3H:127:ASP:OD2	3:3X:175:LEU:HD11	2.11	0.49
1:3K:404:ASP:OD1	1:3K:405:GLU:N	2.44	0.49
1:3Q:335:ASN:O	1:3Q:338:SER:OG	2.28	0.49
1:3S:7:ILE:HB	1:3S:135:VAL:HG12	1.93	0.49
4:3W:6:PHE:CE2	4:3W:8:SER:HB2	2.47	0.49
4:3W:101:ARG:NH1	4:3W:116:PRO:O	2.44	0.49
4:3Y:6:PHE:CE2	4:3Y:8:SER:HB2	2.47	0.49
3:4B:154:TYR:HD2	3:4B:158:LEU:HD11	1.76	0.49
4:4G:6:PHE:CE2	4:4G:8:SER:HB2	2.47	0.49
4:4I:6:PHE:CE2	4:4I:8:SER:HB2	2.47	0.49
3:4J:181:GLU:OE2	3:4J:223:LYS:HG2	2.12	0.49
5:4M:79:LYS:HE2	15:5P:324:ARG:HH12	1.77	0.49
9:4Z:328:ASP:HA	9:4Z:331:ARG:HE	1.77	0.49
10:5A:262:ILE:HA	10:5A:265:LYS:HE3	1.94	0.49
12:5F:13:PRO:HB3	12:5G:300:PRO:HG2	1.93	0.49
13:5H:55:VAL:HG13	13:5H:56:ASP:O	2.12	0.49
13:5I:55:VAL:HG13	13:5I:56:ASP:O	2.12	0.49
14:5L:127:ASN:N	14:5L:127:ASN:HD22	2.10	0.49
14:5L:377:ARG:HH21	23:6Q:52:LEU:HD11	1.77	0.49
14:5M:217:ASP:HB3	14:5M:237:ASN:ND2	2.27	0.49
14:5M:480:SER:OG	14:5M:482:ASP:OD1	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:5M:511:THR:OG1	14:5M:531:ASP:CG	2.49	0.49
14:5N:532:ARG:HB3	14:5N:552:ASP:HA	1.94	0.49
15:5O:127:LYS:NZ	15:5O:155:SER:O	2.42	0.49
17:5S:114:LEU:N	17:5S:114:LEU:CD2	2.75	0.49
18:5X:70:TYR:HB3	18:5X:81:VAL:HG23	1.94	0.49
18:5X:205:HIS:CE1	18:5X:207:ASP:HB2	2.47	0.49
18:5Y:205:HIS:CE1	18:5Y:207:ASP:HB2	2.47	0.49
18:5Z:70:TYR:HB3	18:5Z:81:VAL:HG23	1.94	0.49
18:6A:205:HIS:CE1	18:6A:207:ASP:HB2	2.47	0.49
18:6C:70:TYR:HB3	18:6C:81:VAL:HG23	1.94	0.49
18:6D:70:TYR:HB3	18:6D:81:VAL:HG23	1.94	0.49
18:6D:205:HIS:CE1	18:6D:207:ASP:HB2	2.47	0.49
22:6I:165:MET:HE2	22:6I:218:LEU:HD23	1.94	0.49
22:6N:203:HIS:HB3	22:6N:206:ASP:OD2	2.11	0.49
22:6O:108:ARG:NH2	24:6Z:282:ARG:O	2.42	0.49
30:7K:179:ARG:NH1	30:7K:190:GLN:OE1	2.45	0.49
31:7N:114:GLU:O	31:7N:116:THR:HG23	2.11	0.49
32:7P:100:ARG:NH2	32:7P:108:PRO:HG3	2.27	0.49
37:7Y:105:ASP:OD2	37:7Y:106:GLY:N	2.44	0.49
37:7Y:216:THR:HG23	37:7Y:221:ARG:NH2	2.27	0.49
1:D2:56:GLY:H	22:6M:54:ARG:HD2	1.76	0.49
1:E0:177:ASP:OD2	39:E0:501:GDP:H3'	2.12	0.49
2:E5:56:THR:HA	2:G1:285:GLN:HG2	1.94	0.49
2:G1:392:ASP:OD1	2:G1:422:ARG:NH1	2.45	0.49
2:G7:209:ILE:HD13	2:G7:231:ILE:HD11	1.93	0.49
2:H1:315:CYS:SG	2:H1:379:SER:HB2	2.52	0.49
1:H2:418:LEU:O	1:H2:421:GLU:HG2	2.11	0.49
2:H7:205:ASP:H	2:H7:303:VAL:HG22	1.76	0.49
2:I1:363:VAL:HG23	2:I1:366:GLY:HA3	1.94	0.49
1:I2:86:ARG:HG2	1:I2:88:ASP:H	1.77	0.49
1:I4:219:THR:HA	2:I5:326:LYS:NZ	2.27	0.49
1:I8:83:GLN:O	1:K4:281:TYR:OH	2.25	0.49
1:J0:382:SER:HB2	1:J0:415:MET:HG2	1.93	0.49
1:J2:212:PHE:HE1	2:J3:326:LYS:HG3	1.77	0.49
2:J5:8:HIS:CD2	2:J5:138:PHE:HD2	2.29	0.49
2:K1:34:GLY:HA3	2:K1:60:LYS:NZ	2.27	0.49
2:K1:133:GLN:NE2	2:K1:252:ILE:HG22	2.27	0.49
2:K1:236:SER:O	2:K1:243:ARG:NH2	2.42	0.49
2:K5:129:CYS:SG	2:K5:130:THR:N	2.84	0.49
1:L2:177:ASP:OD2	39:L2:502:GDP:H3'	2.12	0.49
1:L6:173:PRO:CD	1:L6:380:ARG:HE	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M2:418:LEU:HG	1:M2:422:TYR:CE2	2.34	0.49
2:M3:236:SER:O	2:M3:243:ARG:NH2	2.41	0.49
2:M7:156:ARG:HA	2:M7:159:VAL:HG12	1.94	0.49
1:N2:91:VAL:HG11	1:N2:116:VAL:HG12	1.94	0.49
1:N2:228:LEU:O	1:N2:232:VAL:HG23	2.13	0.49
2:N3:198:THR:HG21	2:N3:201:ALA:HB2	1.93	0.49
2:N5:191:THR:HA	2:N5:194:LEU:HB3	1.93	0.49
2:N7:394:LYS:HB2	1:N8:346:PRO:HG3	1.94	0.49
2:O1:3:GLU:HB2	2:O1:129:CYS:SG	2.52	0.49
1:O4:276:ARG:HG3	19:6E:30:LEU:HD13	1.94	0.49
2:O7:9:ILE:HD13	2:O7:150:GLY:HA2	1.94	0.49
2:O7:88:HIS:HD2	2:O7:90:GLU:H	1.58	0.49
2:O7:262:TYR:HE2	2:O7:346:TRP:CH2	2.30	0.49
2:O9:285:GLN:HE22	32:7P:23:GLU:H	1.60	0.49
1:P4:276:ARG:HA	1:P4:279:GLN:HB2	1.93	0.49
2:P5:384:ILE:HD12	2:P5:384:ILE:H	1.77	0.49
1:P8:49:VAL:HG11	1:P8:241:ARG:HG2	1.93	0.49
2:P9:414:GLU:HG2	2:P9:417:GLU:OE1	2.12	0.49
1:Q4:354:CYS:SG	1:Q4:355:ASP:N	2.85	0.49
1:Q8:176:SER:HB2	2:Q9:349:THR:OG1	2.12	0.49
1:R0:31:ASP:OD1	1:R0:35:THR:N	2.43	0.49
1:R0:31:ASP:OD2	1:R0:35:THR:OG1	2.29	0.49
1:R2:49:VAL:HG11	1:R2:241:ARG:HG2	1.93	0.49
1:R4:31:ASP:HB2	1:R4:32:PRO:HD2	1.93	0.49
1:R6:189:VAL:O	1:R6:193:VAL:HG13	2.11	0.49
2:R7:90:GLU:CB	2:R7:121:ARG:HH12	2.23	0.49
2:R7:408:TYR:HB3	2:R7:413:MET:HE2	1.93	0.49
2:R9:105:ARG:O	2:R9:109:THR:OG1	2.30	0.49
2:R9:413:MET:HB3	2:R9:417:GLU:OE2	2.12	0.49
2:S1:88:HIS:NE2	2:S1:89:PRO:HD2	2.11	0.49
1:S4:290:THR:HA	1:S4:293:MET:HB2	1.93	0.49
2:S7:26:LEU:HD22	2:S7:363:VAL:HG12	1.94	0.49
2:S7:267:PHE:CD2	2:S7:432:PHE:HZ	2.30	0.49
1:T0:186:THR:HG22	1:T0:411:ALA:HB1	1.94	0.49
2:T1:5:ILE:HG22	2:T1:64:ARG:HB3	1.94	0.49
2:T1:151:SER:O	2:T1:155:GLU:HG3	2.12	0.49
2:T3:250:VAL:HG21	2:T3:352:LYS:HE3	1.94	0.49
1:T4:161:ASP:OD2	1:T4:162:ARG:NH1	2.45	0.49
2:T7:175:PRO:HB3	2:T7:390:ARG:NE	2.26	0.49
2:T7:264:ARG:NH2	2:T7:431:ASP:OD1	2.45	0.49
2:U5:427:ALA:HA	2:U5:430:LYS:HD2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V3:246:GLY:H	2:V3:249:ASN:HD21	1.60	0.49
1:V8:382:SER:HB3	1:V8:415:MET:HG2	1.93	0.49
1:W0:329:GLN:O	1:W0:333:VAL:HG23	2.12	0.49
2:W7:284:GLU:HG2	2:W7:285:GLN:N	2.27	0.49
2:W9:84:ARG:HH11	2:W9:84:ARG:CG	2.25	0.49
2:X3:31:GLN:HB2	2:X3:33:ASP:OD1	2.12	0.49
2:X7:133:GLN:HB3	2:X7:252:ILE:HG21	1.94	0.49
2:Y3:65:CYS:SG	2:Y3:66:ILE:N	2.85	0.49
1:Y6:58:ARG:CG	1:Y6:58:ARG:NH2	2.62	0.49
2:Z1:90:GLU:HB2	2:0H:283:HIS:CE1	2.47	0.49
2:Z5:9:ILE:HG12	2:Z5:68:LEU:HD11	1.93	0.49
2:Z5:88:HIS:CE1	2:Z5:90:GLU:HG2	2.47	0.49
2:Z7:69:ASP:OD1	2:Z7:70:LEU:N	2.45	0.49
1:Z8:3:GLU:O	1:Z8:131:GLN:N	2.37	0.49
1:Z8:273:LEU:H	1:Z8:292:GLN:HE22	1.60	0.49
1:0C:382:SER:O	1:0C:386:THR:HG23	2.12	0.49
2:0J:28:HIS:CE1	2:0J:49:PHE:HA	2.48	0.49
2:0J:51:THR:HG21	2:0J:243:ARG:HG2	1.94	0.49
2:0J:245:ASP:N	2:0J:245:ASP:OD1	2.43	0.49
1:0O:405:GLU:HA	1:0O:408:PHE:HD2	1.77	0.49
2:0V:203:MET:CE	2:0V:267:PHE:HB3	2.43	0.49
2:0V:277:SER:OG	2:0V:278:ALA:N	2.46	0.49
2:0V:344:VAL:HB	2:0V:346:TRP:CD1	2.47	0.49
2:0X:317:LEU:HB3	2:0X:319:TYR:CE1	2.47	0.49
2:1F:278:ALA:HA	2:1F:369:ALA:HB2	1.93	0.49
2:1L:109:THR:OG1	2:1L:411:GLU:OE2	2.31	0.49
1:1O:301:CYS:SG	1:1O:302:ALA:N	2.85	0.49
2:1T:271:SER:OG	2:1T:377:MET:HB3	2.12	0.49
2:1X:103:PHE:HB3	2:1X:408:TYR:HE2	1.76	0.49
2:2D:335:ILE:HG23	2:2D:341:ILE:HD11	1.94	0.49
1:2E:45:GLU:HG2	1:2E:46:ARG:HG2	1.94	0.49
2:2N:182:VAL:HG22	2:2N:185:TYR:HB2	1.94	0.49
1:3C:165:LEU:HD11	1:3C:250:LEU:HD11	1.93	0.49
1:3C:212:PHE:HZ	38:8D:117:TRP:HB3	1.76	0.49
2:3H:156:ARG:HA	2:3H:159:VAL:HG12	1.94	0.49
2:3J:399:TYR:OH	2:3J:415:GLU:OE2	2.29	0.49
2:3L:417:GLU:HA	2:3L:420:GLU:HG2	1.94	0.49
1:3O:211:CYS:SG	1:3O:217:LEU:HB2	2.52	0.49
2:3R:399:TYR:OH	2:3R:415:GLU:OE2	2.21	0.49
1:3S:153:SER:HA	1:3S:195:ASN:ND2	2.26	0.49
2:3T:185:TYR:HA	2:3T:395:PHE:CE1	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:3X:154:TYR:HD2	3:3X:158:LEU:HD11	1.76	0.49
3:4F:154:TYR:HD2	3:4F:158:LEU:HD11	1.76	0.49
3:4J:192:LEU:HD11	3:4J:230:LEU:HD21	1.93	0.49
5:4M:166:ARG:O	5:4M:169:GLU:HG3	2.12	0.49
6:4O:459:ARG:NH2	6:4O:483:ASP:OD1	2.41	0.49
14:5L:217:ASP:HB3	14:5L:237:ASN:ND2	2.27	0.49
14:5L:532:ARG:HB3	14:5L:552:ASP:HA	1.94	0.49
14:5M:127:ASN:N	14:5M:127:ASN:HD22	2.10	0.49
14:5N:217:ASP:HB3	14:5N:237:ASN:ND2	2.27	0.49
15:5O:10:ILE:HG12	15:5O:77:GLU:O	2.12	0.49
17:5T:177:ASP:HA	17:5T:180:GLN:HE21	1.77	0.49
18:5Y:70:TYR:HB3	18:5Y:81:VAL:HG23	1.94	0.49
18:5Z:205:HIS:CE1	18:5Z:207:ASP:HB2	2.47	0.49
18:6A:70:TYR:HB3	18:6A:81:VAL:HG23	1.94	0.49
18:6B:70:TYR:HB3	18:6B:81:VAL:HG23	1.94	0.49
18:6B:205:HIS:CE1	18:6B:207:ASP:HB2	2.47	0.49
18:6C:205:HIS:CE1	18:6C:207:ASP:HB2	2.47	0.49
19:6E:92:ARG:CG	19:6E:99:ARG:NE	2.73	0.49
22:6P:307:ARG:O	22:6P:311:VAL:HG23	2.11	0.49
24:6W:123:TYR:HD1	24:6W:130:MET:SD	2.35	0.49
24:6Y:435:LEU:HA	24:6Y:438:LEU:HB2	1.93	0.49
1:7:436:PHE:HE1	3:4B:110:TYR:CE1	2.29	0.49
1:B8:80:PRO:HD2	24:6Y:221:ARG:HH12	1.77	0.49
2:E1:221:ARG:HH22	22:6J:28:GLN:HA	1.78	0.49
2:G1:320:ARG:HD3	2:G1:360:PRO:HG3	1.94	0.49
1:G2:68:LEU:HB3	1:G2:96:GLY:HA2	1.94	0.49
1:G4:122:LYS:HE3	1:I0:291:GLN:HB3	1.94	0.49
2:G5:212:ILE:O	2:G5:216:SER:OG	2.27	0.49
2:G5:388:PHE:HB3	2:G5:425:LEU:HD11	1.93	0.49
1:G6:7:ILE:HB	1:G6:135:VAL:HG12	1.93	0.49
2:G7:219:ILE:HG23	22:6O:175:ALA:HB1	1.93	0.49
1:G8:8:GLN:CD	1:G8:17:GLY:HA3	2.33	0.49
1:G8:404:ASP:HB3	1:G8:406:MET:SD	2.53	0.49
1:G8:414:ASN:HA	1:G8:417:ASP:OD2	2.11	0.49
2:H1:209:ILE:HG23	2:H1:230:LEU:HD21	1.93	0.49
1:H4:121:ARG:NH2	1:H4:158:GLU:OE2	2.39	0.49
1:H6:19:LYS:O	1:H6:23:VAL:HG23	2.12	0.49
1:H8:203:ASP:N	1:H8:203:ASP:OD2	2.45	0.49
1:H8:272:PRO:HD3	1:H8:364:SER:HA	1.93	0.49
2:H9:267:PHE:HB2	2:H9:384:ILE:HD12	1.95	0.49
2:I1:213:CYS:HA	2:I1:217:LEU:HB2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I1:236:SER:O	2:I1:243:ARG:NH2	2.45	0.49
2:I1:274:PRO:HB2	2:I1:276:ILE:HG12	1.94	0.49
1:I2:207:LEU:HB3	1:I2:225:LEU:HD22	1.94	0.49
1:I4:334:GLN:NE2	1:I4:348:ASN:H	2.10	0.49
2:J1:88:HIS:CD2	2:K7:283:HIS:HA	2.47	0.49
1:J4:54:ALA:HB3	1:J4:58:ARG:HB3	1.93	0.49
1:J4:178:THR:OG1	1:J4:181:GLU:HG3	2.11	0.49
2:K5:287:SER:OG	2:K5:288:VAL:N	2.45	0.49
1:L2:186:THR:HG22	1:L2:411:ALA:HB1	1.94	0.49
2:L3:76:ASP:OD2	1:L4:46:ARG:NH2	2.45	0.49
2:L5:201:ALA:O	2:L5:268:MET:HE2	2.12	0.49
2:L5:345:ASP:N	2:L5:345:ASP:OD1	2.46	0.49
1:M2:325:GLU:HA	1:M2:328:GLU:OE1	2.11	0.49
2:M3:229:ARG:HH11	2:M3:363:VAL:HG21	1.77	0.49
2:M7:51:THR:HG23	2:M7:52:PHE:CD2	2.47	0.49
1:M8:257:LEU:HD21	1:M8:314:SER:HB3	1.95	0.49
1:M8:361:LEU:HD23	30:7K:41:TRP:CE3	2.47	0.49
2:N9:114:ILE:HG21	2:N9:149:LEU:HD22	1.94	0.49
2:O3:12:ALA:HB2	41:O4:501:GTP:C8	2.48	0.49
2:O3:414:GLU:HG2	2:O3:416:GLY:H	1.76	0.49
2:O5:69:ASP:OD1	2:O5:70:LEU:N	2.46	0.49
2:O7:319:TYR:HB3	2:O7:323:VAL:HG11	1.93	0.49
2:P5:170:THR:HG21	2:P5:194:LEU:HD11	1.95	0.49
2:P7:114:ILE:HD12	2:P7:117:LEU:HD21	1.95	0.49
1:Q6:12:CYS:HB3	1:Q6:138:SER:HB2	1.94	0.49
1:Q6:311:LEU:HD23	1:Q6:312:THR:HG23	1.92	0.49
1:Q8:253:LEU:O	1:Q8:257:LEU:HB2	2.12	0.49
2:R5:176:GLN:HG2	2:R5:177:VAL:N	2.28	0.49
2:R9:88:HIS:NE2	2:T5:283:HIS:HB3	2.28	0.49
2:S1:110:ILE:HA	2:S1:113:GLU:OE1	2.12	0.49
1:S2:424:GLN:NE2	17:5V:104:PHE:H	2.10	0.49
2:S5:205:ASP:OD1	2:S5:303:VAL:HG13	2.12	0.49
1:S6:156:ARG:NH1	1:S6:197:ASP:OD1	2.45	0.49
2:S7:72:PRO:HD2	1:S8:2:ARG:NH1	2.27	0.49
2:S7:123:ARG:NH2	2:S7:160:ASP:OD1	2.45	0.49
1:T0:285:THR:HB	1:T0:287:PRO:HD2	1.94	0.49
1:T0:309:ARG:H	1:T0:372:THR:HG22	1.76	0.49
1:T2:174:LYS:HB2	1:T2:205:GLU:OE1	2.12	0.49
1:T4:391:ARG:O	1:T4:391:ARG:CG	2.59	0.49
1:T6:167:PHE:CE1	1:T6:233:MET:HG2	2.47	0.49
1:T8:28:HIS:NE2	1:T8:241:ARG:HD2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U1:53:PHE:HA	2:U1:62:VAL:O	2.11	0.49
2:U1:72:PRO:HD2	1:U2:2:ARG:HH12	1.77	0.49
1:U2:6:HIS:NE2	1:U2:136:CYS:SG	2.85	0.49
1:U2:117:LEU:HA	1:U2:120:VAL:HG12	1.94	0.49
1:U4:221:THR:HG23	1:U4:223:GLY:H	1.76	0.49
1:U4:263:LEU:HD22	1:U4:422:TYR:HE1	1.77	0.49
2:U7:121:ARG:CD	2:U7:121:ARG:C	2.78	0.49
2:V1:55:GLU:HA	2:V1:60:LYS:O	2.12	0.49
1:V2:309:ARG:O	1:V2:372:THR:HG22	2.12	0.49
2:V7:20:CYS:SG	2:V7:21:TRP:N	2.84	0.49
2:V7:76:ASP:HA	2:V7:79:ARG:HB2	1.95	0.49
2:V9:79:ARG:NH1	2:V9:92:LEU:O	2.43	0.49
2:W1:88:HIS:NE2	2:W1:90:GLU:HB2	2.27	0.49
2:W9:90:GLU:CB	2:W9:121:ARG:HH12	2.26	0.49
2:X7:332:VAL:HA	2:X7:335:ILE:HG22	1.93	0.49
1:X8:105:HIS:NE2	1:X8:150:LEU:HD13	2.27	0.49
1:Y6:111:GLU:HG2	1:Y6:112:LEU:HD22	1.94	0.49
1:Y8:286:VAL:O	1:Y8:290:THR:OG1	2.26	0.49
1:Z4:3:GLU:HB2	1:Z4:130:LEU:HA	1.95	0.49
2:Z5:380:ASN:OD1	2:Z5:381:SER:N	2.45	0.49
2:Z7:157:LEU:HD22	2:Z7:166:LYS:HD3	1.94	0.49
1:Z8:260:PHE:HB2	1:Z8:263:LEU:HD23	1.94	0.49
2:0B:71:GLU:HB3	2:0B:98:ASP:OD2	2.12	0.49
2:0B:166:LYS:N	2:0B:199:ASP:OD2	2.45	0.49
1:0E:385:PHE:HZ	1:0E:408:PHE:HD1	1.61	0.49
1:0I:397:TRP:NE1	2:0J:260:VAL:O	2.43	0.49
2:0J:69:ASP:OD1	2:0J:70:LEU:N	2.42	0.49
1:0K:52:ASN:OD1	1:0K:62:ARG:NH2	2.46	0.49
1:0K:232:VAL:HG21	1:0K:300:MET:CE	2.42	0.49
1:0O:8:GLN:O	1:0O:66:MET:HB2	2.12	0.49
2:0P:109:THR:OG1	2:0P:411:GLU:OE2	2.28	0.49
2:0P:274:PRO:HB2	2:0P:276:ILE:HG12	1.95	0.49
1:0S:86:ARG:HD3	1:0S:88:ASP:HB2	1.94	0.49
1:0U:15:GLN:O	1:0U:19:LYS:HG2	2.12	0.49
1:0U:114:ASP:OD1	1:0U:115:SER:N	2.45	0.49
1:0Y:135:VAL:HG21	1:0Y:152:ILE:HD11	1.94	0.49
1:1A:256:ASN:ND2	1:1A:350:LYS:HD3	2.27	0.49
1:1E:113:ILE:HD12	1:1E:150:LEU:HG	1.94	0.49
1:1E:248:ALA:HA	1:1E:252:LYS:CD	2.33	0.49
1:1G:388:MET:SD	2:1H:348:PRO:HD3	2.53	0.49
1:1K:165:LEU:HG	1:1K:250:LEU:HD11	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1K:385:PHE:HZ	1:1K:408:PHE:HD1	1.60	0.49
1:1O:16:ILE:HG22	1:1O:226:ASN:OD1	2.12	0.49
1:1O:282:ARG:NH2	1:1O:288:GLU:OE1	2.45	0.49
2:1T:5:ILE:HG22	2:1T:64:ARG:HB3	1.94	0.49
2:1V:50:ASN:O	2:1V:64:ARG:NH2	2.44	0.49
2:1V:379:SER:OG	2:1V:380:ASN:N	2.45	0.49
1:2A:5:VAL:HG22	1:2A:133:PHE:HD1	1.77	0.49
1:2A:113:ILE:HG12	1:2A:150:LEU:HG	1.93	0.49
1:2C:212:PHE:HZ	2:2D:326:LYS:HG3	1.77	0.49
1:2I:285:THR:OG1	1:2I:287:PRO:HD2	2.13	0.49
2:2J:9:ILE:HG22	2:2J:146:GLY:HA2	1.94	0.49
2:2J:275:ILE:O	2:2J:275:ILE:HG13	2.12	0.49
1:2S:317:PHE:HE2	1:2S:326:VAL:HG13	1.77	0.49
1:2U:167:PHE:CE2	1:2U:233:MET:HG2	2.48	0.49
1:3A:193:VAL:HG22	1:3A:265:PHE:CZ	2.45	0.49
2:3B:287:SER:OG	2:3B:288:VAL:N	2.45	0.49
2:3J:287:SER:OG	2:3J:288:VAL:N	2.45	0.49
2:3P:261:PRO:HG3	2:3P:313:MET:HE2	1.94	0.49
2:3P:327:ASP:N	2:3P:327:ASP:OD1	2.45	0.49
1:3Q:130:LEU:HB2	1:3Q:162:ARG:HE	1.77	0.49
4:3Y:14:LEU:HD23	4:3Y:162:ILE:HD11	1.94	0.49
3:3Z:154:TYR:HD2	3:3Z:158:LEU:HD11	1.76	0.49
4:4G:14:LEU:HD23	4:4G:162:ILE:HD11	1.94	0.49
4:4I:15:TYR:CE2	4:4I:17:ILE:HB	2.47	0.49
7:4U:111:ASP:OD1	7:4U:112:MET:N	2.45	0.49
13:5K:55:VAL:HG13	13:5K:56:ASP:O	2.12	0.49
14:5M:532:ARG:HB3	14:5M:552:ASP:HA	1.94	0.49
15:5O:32:SER:HB3	15:5O:49:ARG:HH12	1.77	0.49
15:5P:172:TRP:NE1	15:5P:176:ILE:HD11	2.27	0.49
16:5Q:63:ARG:NH1	16:5Q:91:ASP:O	2.40	0.49
17:5V:219:LEU:O	17:5V:223:GLU:HG3	2.12	0.49
17:5V:224:ARG:O	17:5V:228:THR:HG23	2.11	0.49
20:6F:135:ASP:OD2	20:6F:136:ASP:N	2.45	0.49
22:6I:53:THR:O	22:6I:57:THR:OG1	2.29	0.49
22:6L:177:LEU:HD23	22:6L:187:MET:HE3	1.94	0.49
22:6O:314:CYS:HA	22:6O:317:VAL:HG12	1.94	0.49
22:6P:203:HIS:HB3	22:6P:206:ASP:OD2	2.12	0.49
24:6U:480:ASN:HD21	24:6U:503:ILE:HD12	1.77	0.49
24:6V:123:TYR:CE2	24:6V:163:PRO:HG3	2.48	0.49
24:6W:456:ASP:N	24:6W:456:ASP:OD1	2.45	0.49
24:6X:276:TRP:CD1	24:6X:293:VAL:HG12	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:6Y:571:ASP:N	24:6Y:571:ASP:OD1	2.45	0.49
26:7D:59:ARG:HH21	26:7D:59:ARG:CB	2.21	0.49
30:7K:108:ARG:NH2	37:7Y:142:ARG:HD3	2.27	0.49
38:7Z:33:LYS:HD3	38:7Z:34:ALA:N	2.27	0.49
38:8C:80:TYR:CD2	38:8C:80:TYR:C	2.86	0.49
2:G3:297:GLU:OE1	2:G3:297:GLU:N	2.44	0.49
1:G4:32:PRO:HD2	24:6X:527:ASN:ND2	2.25	0.49
1:G6:219:THR:H	24:6Y:418:ASP:CG	2.16	0.49
1:G6:389:PHE:O	1:G6:392:LYS:NZ	2.39	0.49
2:G7:277:SER:OG	2:G7:278:ALA:N	2.44	0.49
2:G9:188:VAL:HG13	2:G9:425:LEU:HD11	1.93	0.49
1:H6:11:GLN:N	39:H6:502:GDP:O2B	2.41	0.49
1:H6:114:ASP:N	1:H6:114:ASP:OD1	2.44	0.49
1:H8:95:THR:OG1	1:H8:96:GLY:N	2.46	0.49
2:H9:155:GLU:HB2	2:H9:197:HIS:CE1	2.48	0.49
1:I4:391:ARG:NH2	2:I5:434:GLU:OE2	2.46	0.49
2:I5:81:GLY:O	2:I5:84:ARG:NH1	2.43	0.49
2:I5:116:ASP:N	2:I5:116:ASP:OD1	2.44	0.49
2:I9:56:THR:HG23	2:I9:60:LYS:HB3	1.94	0.49
2:J3:312:TYR:HB2	2:J3:343:PHE:HD1	1.78	0.49
2:J5:111:GLY:HA2	2:J5:114:ILE:HG22	1.94	0.49
2:K7:287:SER:N	2:K7:290:GLU:OE2	2.45	0.49
1:L0:317:PHE:HB3	1:L0:321:MET:SD	2.52	0.49
2:L5:222:PRO:HD2	1:L6:324:LYS:HE3	1.94	0.49
1:M0:320:ARG:HH12	29:7I:110:THR:HA	1.77	0.49
1:M8:404:ASP:HB3	1:M8:406:MET:SD	2.52	0.49
2:N9:191:THR:HA	2:N9:194:LEU:HB3	1.94	0.49
2:O1:88:HIS:ND1	2:O1:89:PRO:CD	2.72	0.49
2:P5:269:LEU:HD21	2:P5:384:ILE:HG13	1.93	0.49
1:P6:318:ARG:HD3	1:P6:358:PRO:HD3	1.95	0.49
2:P7:111:GLY:HA2	2:P7:114:ILE:HG22	1.95	0.49
1:Q2:278:SER:O	1:Q2:278:SER:OG	2.28	0.49
2:Q5:282:TYR:N	2:Q5:282:TYR:CD2	2.79	0.49
1:Q6:273:LEU:H	1:Q6:292:GLN:HE22	1.60	0.49
2:Q9:248:LEU:HD22	2:Q9:354:GLY:HA2	1.94	0.49
1:R0:42:LEU:HD12	12:7B:70:LEU:HD21	1.94	0.49
1:R4:2:ARG:HB3	1:R4:131:GLN:HB2	1.94	0.49
2:R5:62:VAL:HG21	2:R5:88:HIS:HB2	1.93	0.49
2:R9:81:GLY:HA3	12:5F:106:TYR:HE2	1.77	0.49
1:S4:5:VAL:HG23	1:S4:62:ARG:HG2	1.95	0.49
2:S7:325:PRO:HA	2:S7:328:VAL:HG12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T0:273:LEU:H	1:T0:292:GLN:HE22	1.59	0.49
1:T4:49:VAL:HG11	1:T4:241:ARG:HG2	1.93	0.49
2:T5:5:ILE:HD11	2:T5:135:PHE:CE1	2.47	0.49
2:T7:18:ASN:HD21	31:7N:30:TYR:HE1	1.59	0.49
2:T7:176:GLN:NE2	2:T7:207:GLU:HG2	2.28	0.49
1:T8:4:ILE:HB	1:T8:50:TYR:HE1	1.77	0.49
1:U8:317:PHE:HE2	1:U8:326:VAL:HG13	1.75	0.49
1:V0:114:ASP:OD1	1:V0:115:SER:N	2.45	0.49
1:V6:48:ASN:O	1:V6:62:ARG:NH1	2.41	0.49
1:W0:111:GLU:N	1:W0:111:GLU:OE2	2.46	0.49
2:W3:54:SER:OG	2:W3:64:ARG:NH2	2.46	0.49
2:W7:234:VAL:HG13	2:W7:376:CYS:SG	2.52	0.49
1:W8:325:GLU:O	1:W8:329:GLN:HB2	2.12	0.49
1:X4:389:PHE:O	1:X4:392:LYS:NZ	2.36	0.49
2:X7:203:MET:HE3	2:X7:387:ILE:HG21	1.95	0.49
1:X8:234:SER:O	1:X8:241:ARG:NH2	2.45	0.49
2:X9:53:PHE:HB3	2:X9:61:HIS:HB3	1.95	0.49
1:Y0:330:MET:HA	1:Y0:333:VAL:HG12	1.94	0.49
2:Y3:22:GLU:HG2	2:Y3:83:TYR:CZ	2.48	0.49
1:Z0:396:HIS:H	1:Z0:396:HIS:CD2	2.31	0.49
1:Z2:20:PHE:HA	1:Z2:230:SER:OG	2.12	0.49
1:Z2:179:VAL:HG23	1:Z2:180:VAL:HG13	1.95	0.49
1:Z6:167:PHE:HE1	1:Z6:200:MET:HG3	1.77	0.49
1:Z8:12:CYS:O	1:Z8:16:ILE:HG12	2.12	0.49
2:Z9:121:ARG:HD2	2:Z9:124:LYS:HE3	1.94	0.49
2:0B:313:MET:HE2	2:0B:380:ASN:HD22	1.78	0.49
1:0E:6:HIS:HA	1:0E:134:GLN:HB3	1.95	0.49
1:0E:8:GLN:OE1	1:0E:65:LEU:HA	2.12	0.49
1:0E:139:LEU:HD22	1:0E:188:SER:OG	2.12	0.49
2:0F:379:SER:OG	2:0F:380:ASN:N	2.46	0.49
1:0G:165:LEU:HD22	1:0G:167:PHE:HE1	1.77	0.49
1:0G:276:ARG:CZ	1:0G:279:GLN:HB3	2.42	0.49
2:0H:175:PRO:HB3	2:0H:390:ARG:NE	2.27	0.49
2:0N:76:ASP:OD1	2:0N:79:ARG:HD2	2.12	0.49
2:0N:88:HIS:CE1	2:1D:283:HIS:HA	2.48	0.49
1:0O:112:LEU:O	1:0O:115:SER:OG	2.26	0.49
1:0O:139:LEU:HG	1:0O:168:SER:HB2	1.94	0.49
1:0U:186:THR:HG22	1:0U:411:ALA:HB1	1.95	0.49
2:0V:88:HIS:ND1	2:1L:283:HIS:HB3	2.28	0.49
2:0V:280:LYS:HA	2:0V:283:HIS:HB3	1.93	0.49
2:1B:182:VAL:HG23	2:1B:186:ASN:HD21	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1F:71:GLU:HB2	1:1G:2:ARG:HH12	1.77	0.49
2:1F:92:LEU:N	2:1F:92:LEU:HD23	2.28	0.49
2:1F:167:LEU:HG	2:1F:252:ILE:HD11	1.95	0.49
2:1H:56:THR:HG23	2:1H:60:LYS:HB3	1.94	0.49
2:1H:396:ASP:HA	2:1H:422:ARG:HH22	1.77	0.49
1:1M:318:ARG:HB3	1:1M:357:PRO:HA	1.94	0.49
2:1N:266:HIS:O	2:1N:266:HIS:ND1	2.42	0.49
2:1N:381:SER:OG	2:1N:382:THR:N	2.45	0.49
2:1P:21:TRP:CZ2	2:1P:65:CYS:HB2	2.46	0.49
2:1P:145:THR:OG1	41:1Q:501:GTP:O1B	2.29	0.49
1:1Q:144:GLY:N	39:1Q:502:GDP:O1B	2.43	0.49
1:1U:317:PHE:HE2	1:1U:326:VAL:HG13	1.77	0.49
1:1W:235:GLY:HA3	1:1W:366:THR:HG21	1.94	0.49
2:1Z:278:ALA:HA	2:1Z:369:ALA:HB2	1.94	0.49
1:2A:83:GLN:OE1	1:2A:83:GLN:N	2.44	0.49
2:2F:90:GLU:O	2:2F:121:ARG:NH1	2.39	0.49
2:2F:213:CYS:HA	2:2F:217:LEU:HB2	1.94	0.49
2:2J:161:TYR:HE1	38:8C:80:TYR:CB	2.25	0.49
2:2P:282:TYR:OH	10:5C:164:ASP:N	2.46	0.49
2:2R:360:PRO:O	2:2R:370:LYS:NZ	2.44	0.49
1:2U:207:LEU:HB3	1:2U:225:LEU:HD22	1.95	0.49
1:2U:345:ILE:HB	1:2U:348:ASN:HD21	1.78	0.49
2:2V:287:SER:OG	2:2V:288:VAL:N	2.46	0.49
2:2X:279:GLU:H	2:2X:279:GLU:CD	2.09	0.49
1:3G:309:ARG:H	1:3G:372:THR:HG22	1.77	0.49
1:3I:183:TYR:HB3	1:3I:398:TYR:HE2	1.77	0.49
1:3O:177:ASP:N	1:3O:181:GLU:OE2	2.46	0.49
1:3S:133:PHE:HE2	1:3S:155:ILE:HD12	1.77	0.49
1:3S:246:LEU:O	1:3S:352:SER:OG	2.22	0.49
1:3S:310:TYR:O	1:3S:342:VAL:HG23	2.11	0.49
3:3V:154:TYR:HD2	3:3V:158:LEU:HD11	1.76	0.49
4:3W:14:LEU:HD23	4:3W:162:ILE:HD11	1.94	0.49
4:3W:15:TYR:CE2	4:3W:17:ILE:HB	2.47	0.49
3:4D:154:TYR:HD2	3:4D:158:LEU:HD11	1.76	0.49
4:4G:15:TYR:CE2	4:4G:17:ILE:HB	2.47	0.49
4:4I:14:LEU:HD23	4:4I:162:ILE:HD11	1.94	0.49
5:4M:305:ALA:HA	5:4M:308:GLU:HG3	1.94	0.49
10:5B:240:LEU:HD23	10:5B:243:LEU:HD21	1.94	0.49
17:5U:177:ASP:O	17:5U:180:GLN:HG3	2.11	0.49
22:6P:206:ASP:HA	22:6P:209:ASN:ND2	2.27	0.49
24:6U:563:LYS:HA	24:6U:566:VAL:HG12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:6W:505:LYS:N	24:6W:510:GLU:O	2.42	0.49
29:7I:159:ARG:O	29:7I:163:THR:HG23	2.12	0.49
34:7S:201:LEU:HD21	36:7W:91:PRO:HB3	1.94	0.49
1:3:262:ARG:NH1	3:3X:240:ARG:HH11	2.09	0.49
2:4:280:LYS:NZ	26:7D:64:PRO:HG2	2.18	0.49
2:8:30:ILE:N	26:7E:45:MET:CE	2.74	0.49
2:D7:143:GLY:HA3	41:D7:501:GTP:O3A	2.11	0.49
2:G3:51:THR:HG21	2:G3:243:ARG:HG2	1.95	0.49
2:G5:417:GLU:HA	2:G5:420:GLU:HG2	1.94	0.49
1:G6:334:GLN:HE22	1:G6:347:ASN:HA	1.78	0.49
2:G7:264:ARG:NH2	2:G7:431:ASP:OD2	2.45	0.49
2:H1:328:VAL:O	2:H1:332:VAL:HG12	2.12	0.49
2:H3:353:CYS:SG	2:H3:354:GLY:N	2.85	0.49
1:I0:117:LEU:HA	1:I0:120:VAL:HG12	1.94	0.49
1:I4:95:THR:HG23	1:I4:96:GLY:N	2.27	0.49
2:J3:119:LEU:HA	2:J3:122:ILE:HG22	1.95	0.49
1:J6:233:MET:O	1:J6:237:THR:HG22	2.12	0.49
2:J7:204:LEU:HD23	2:J7:231:ILE:HD12	1.92	0.49
2:J7:320:ARG:NH2	2:J7:359:PRO:O	2.45	0.49
2:K1:133:GLN:NE2	2:K1:252:ILE:H	2.11	0.49
2:L3:72:PRO:HB2	29:7J:323:THR:HG21	1.94	0.49
2:L3:226:ASN:HD21	29:7J:360:GLN:HE22	1.58	0.49
2:L7:246:GLY:HA3	2:L7:356:ASN:HA	1.94	0.49
1:M0:105:HIS:CD2	1:M0:150:LEU:HB2	2.48	0.49
1:M0:364:SER:OG	1:M0:365:ALA:N	2.46	0.49
1:M2:20:PHE:HA	1:M2:230:SER:HB2	1.95	0.49
2:M3:254:GLU:HB3	2:M3:352:LYS:HE2	1.94	0.49
2:N3:70:LEU:HB3	2:N3:98:ASP:HA	1.93	0.49
2:N7:51:THR:HG21	2:N7:243:ARG:HG2	1.93	0.49
2:N7:322:ASP:N	2:N7:322:ASP:OD1	2.42	0.49
2:N9:286:LEU:O	2:N9:373:ARG:NH1	2.45	0.49
2:P3:90:GLU:HB2	2:P3:121:ARG:HH22	1.77	0.49
2:P7:175:PRO:HB3	2:P7:390:ARG:NE	2.28	0.49
2:P7:379:SER:OG	2:P7:380:ASN:N	2.44	0.49
1:Q2:334:GLN:HE22	1:Q2:348:ASN:H	1.61	0.49
2:Q3:93:ILE:HD11	2:Q3:121:ARG:HD2	1.95	0.49
1:Q4:67:ASP:N	1:Q4:67:ASP:OD1	2.45	0.49
1:Q8:180:VAL:HG23	1:Q8:184:ASN:HD21	1.77	0.49
2:R5:199:ASP:HA	17:5T:84:ARG:HH22	1.78	0.49
1:S2:317:PHE:HB3	1:S2:321:MET:SD	2.52	0.49
1:S4:100:ASN:HB3	1:S4:103:LYS:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S5:319:TYR:HB3	2:S5:323:VAL:HG21	1.94	0.49
1:S6:213:ARG:HH12	13:5H:117:ASN:CG	2.16	0.49
1:S8:91:VAL:HG11	1:S8:116:VAL:HG22	1.95	0.49
2:S9:266:HIS:ND1	2:S9:266:HIS:O	2.45	0.49
2:T5:333:ALA:O	2:T5:337:THR:HG23	2.12	0.49
2:T7:114:ILE:HG21	2:T7:149:LEU:HD22	1.93	0.49
2:U3:9:ILE:HG13	2:U3:139:ASN:HB3	1.94	0.49
2:U3:66:ILE:HG13	2:U3:66:ILE:O	2.12	0.49
2:U3:305:CYS:HB3	2:U3:387:ILE:HD11	1.93	0.49
1:U4:114:ASP:N	1:U4:114:ASP:OD2	2.44	0.49
2:U5:177:VAL:HG13	1:U6:327:ASP:HB3	1.95	0.49
1:U6:285:THR:HG23	1:U6:287:PRO:HD2	1.95	0.49
1:V4:178:THR:HG23	1:V4:181:GLU:HG3	1.94	0.49
1:V6:27:GLU:OE2	1:V6:234:SER:OG	2.25	0.49
1:V6:322:SER:OG	1:V6:325:GLU:HB2	2.11	0.49
1:V6:327:ASP:O	1:V6:331:LEU:HG	2.13	0.49
2:V7:5:ILE:HD11	2:V7:135:PHE:CE1	2.48	0.49
2:W1:199:ASP:OD1	2:W1:256:GLN:HG2	2.13	0.49
1:W2:5:VAL:HG12	1:W2:133:PHE:HD1	1.77	0.49
1:W4:107:THR:OG1	1:W4:401:GLU:OE2	2.18	0.49
2:W7:417:GLU:HA	2:W7:420:GLU:HG2	1.94	0.49
2:W9:7:ILE:HG22	2:W9:137:VAL:CG1	2.28	0.49
1:X0:209:ASP:OD1	1:X0:213:ARG:HD3	2.13	0.49
2:X5:108:TYR:O	2:X5:112:LYS:NZ	2.32	0.49
1:X8:203:ASP:OD2	1:X8:302:ALA:N	2.45	0.49
2:X9:392:ASP:OD1	2:X9:422:ARG:NE	2.46	0.49
1:Y4:39:ASP:OD1	1:Y4:39:ASP:N	2.45	0.49
1:Z2:386:THR:O	1:Z2:390:ARG:HG3	2.12	0.49
2:Z3:21:TRP:CZ3	2:Z3:63:PRO:HB3	2.48	0.49
2:Z5:69:ASP:OD1	2:Z5:70:LEU:N	2.45	0.49
2:Z7:174:SER:OG	2:Z7:207:GLU:OE1	2.29	0.49
1:0E:246:LEU:O	1:0E:352:SER:OG	2.23	0.49
2:0H:88:HIS:HB3	2:0X:283:HIS:CE1	2.46	0.49
1:0I:405:GLU:HA	1:0I:408:PHE:HD2	1.77	0.49
1:0O:259:PRO:HG3	1:0O:311:LEU:HD21	1.94	0.49
1:0O:337:ASN:HB3	1:0O:340:TYR:HD2	1.77	0.49
2:0P:344:VAL:O	2:0P:344:VAL:HG12	2.13	0.49
1:0S:215:LEU:HB3	1:0S:217:LEU:HG	1.93	0.49
2:0V:4:VAL:HG23	2:0V:134:GLY:O	2.13	0.49
2:0V:435:VAL:CG1	2:0V:435:VAL:O	2.60	0.49
1:0W:70:PRO:N	1:0W:92:PHE:HZ	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0X:407:TRP:HZ2	1:0Y:258:ILE:HB	1.77	0.49
1:1A:68:LEU:HD11	1:1A:147:MET:HE1	1.95	0.49
1:1A:173:PRO:HB3	1:1A:384:GLN:HE22	1.76	0.49
1:1U:235:GLY:HA3	1:1U:366:THR:HG21	1.93	0.49
2:1X:312:TYR:HD1	2:1X:381:SER:HB2	1.76	0.49
1:2A:396:HIS:HA	1:2A:399:THR:HG22	1.95	0.49
2:2B:325:PRO:HA	2:2B:328:VAL:HG22	1.94	0.49
2:2H:111:GLY:O	2:2H:115:VAL:HG22	2.13	0.49
2:2J:137:VAL:HG11	2:2J:154:LEU:HD11	1.94	0.49
2:2L:66:ILE:HD12	2:2L:121:ARG:HG2	1.93	0.49
2:2L:290:GLU:HA	2:2L:293:ASN:HD22	1.76	0.49
2:2P:69:ASP:OD1	2:2P:71:GLU:HG2	2.11	0.49
2:2V:60:LYS:HE2	2:2V:88:HIS:CE1	2.47	0.49
2:2X:276:ILE:HD11	2:2X:280:LYS:HD3	1.93	0.49
2:2Z:10:GLY:HA2	2:2Z:145:THR:HG23	1.94	0.49
2:3B:294:ALA:O	2:3B:300:SER:OG	2.28	0.49
1:3G:406:MET:O	1:3G:410:GLU:HG2	2.13	0.49
2:3H:244:PHE:HB2	2:3H:356:ASN:HD21	1.76	0.49
1:3I:94:GLN:NE2	3:3Z:139:SER:O	2.44	0.49
2:3P:5:ILE:HD11	2:3P:135:PHE:CE1	2.48	0.49
2:3P:388:PHE:HB3	2:3P:425:LEU:HD21	1.95	0.49
2:3R:221:ARG:N	38:8D:174:SER:O	2.38	0.49
4:3Y:15:TYR:CE2	4:3Y:17:ILE:HB	2.47	0.49
3:4H:154:TYR:HD2	3:4H:158:LEU:HD11	1.76	0.49
6:4O:65:LYS:CB	6:4O:66:ARG:HH21	2.25	0.49
6:4O:69:ARG:O	6:4O:73:GLU:HG2	2.12	0.49
6:4O:130:ASP:OD1	6:4O:130:ASP:N	2.43	0.49
7:4U:119:ASP:OD1	7:4U:119:ASP:N	2.42	0.49
9:4Z:356:TRP:O	9:4Z:360:THR:HG23	2.12	0.49
10:5B:215:ALA:O	10:5B:218:SER:OG	2.26	0.49
10:5C:156:TYR:O	10:5C:160:VAL:HG23	2.12	0.49
13:5K:75:PHE:HA	17:5V:126:GLN:NE2	2.27	0.49
14:5L:105:LYS:O	14:5L:123:GLY:N	2.45	0.49
14:5L:494:ILE:HD13	14:5L:494:ILE:N	2.28	0.49
14:5M:105:LYS:O	14:5M:123:GLY:N	2.45	0.49
14:5N:105:LYS:O	14:5N:123:GLY:N	2.45	0.49
15:5O:376:LEU:N	15:5O:377:PRO:CD	2.75	0.49
22:6K:138:ASP:HA	22:6K:141:LYS:HE2	1.93	0.49
22:6M:108:ARG:CD	24:6X:285:MET:SD	2.93	0.49
24:6T:123:TYR:CE2	24:6T:163:PRO:HG3	2.47	0.49
24:6U:185:ASP:OD1	24:6U:186:SER:N	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:6X:123:TYR:HE2	24:6X:163:PRO:HG3	1.77	0.49
24:6X:505:LYS:HB3	24:6X:506:PRO:HD2	1.94	0.49
24:6Y:117:ARG:NH1	24:6Y:134:GLU:OE2	2.44	0.49
24:6Y:505:LYS:N	24:6Y:510:GLU:O	2.44	0.49
24:6Y:558:LEU:HD21	24:6Y:612:LEU:HD11	1.93	0.49
24:6Z:456:ASP:N	24:6Z:456:ASP:OD1	2.45	0.49
29:7I:254:MET:HE1	30:7K:341:ARG:CD	2.40	0.49
30:7K:93:ASN:ND2	30:7K:96:GLU:OE1	2.45	0.49
38:8B:159:TYR:CD2	38:8B:159:TYR:C	2.85	0.49
38:8D:117:TRP:O	38:8D:121:LEU:HG	2.13	0.49
2:A2:223:THR:HG22	26:7F:78:ALA:HB2	1.89	0.49
2:B0:279:GLU:CD	18:5Y:43:ASN:HD21	2.15	0.49
1:B8:362:LYS:CE	18:6B:24:ARG:HD3	2.41	0.49
2:G3:116:ASP:N	2:G3:116:ASP:OD1	2.44	0.49
2:G5:66:ILE:HG13	2:G5:91:GLN:O	2.13	0.49
1:G6:219:THR:O	1:G6:219:THR:HG23	2.12	0.49
2:H1:305:CYS:HB3	2:H1:387:ILE:HD11	1.95	0.49
1:H2:387:ALA:HA	1:H2:390:ARG:HE	1.78	0.49
2:H5:236:SER:O	2:H5:243:ARG:NH2	2.46	0.49
2:H7:5:ILE:HG22	2:H7:64:ARG:HB3	1.93	0.49
2:I1:287:SER:OG	2:I1:288:VAL:N	2.46	0.49
2:I3:145:THR:OG1	41:I4:501:GTP:O1B	2.28	0.49
2:I3:333:ALA:O	2:I3:337:THR:HG23	2.13	0.49
2:J1:398:MET:HG3	1:J2:346:PRO:HD2	1.94	0.49
2:J3:320:ARG:NH2	2:J3:359:PRO:O	2.46	0.49
1:J6:272:PRO:HB2	1:J6:282:ARG:HH12	1.76	0.49
2:J9:69:ASP:OD2	2:J9:71:GLU:N	2.45	0.49
2:J9:76:ASP:HA	2:J9:79:ARG:HB2	1.95	0.49
1:K0:292:GLN:O	1:K0:298:ASN:ND2	2.40	0.49
2:K7:342:GLN:H	35:7T:169:MET:HE2	1.77	0.49
2:K7:417:GLU:HA	2:K7:420:GLU:HG2	1.95	0.49
1:K8:52:ASN:HA	30:7K:186:HIS:HE1	1.77	0.49
2:K9:392:ASP:OD2	2:K9:422:ARG:NH1	2.45	0.49
2:L1:7:ILE:HG12	2:L1:137:VAL:HG12	1.95	0.49
2:L3:76:ASP:HA	2:L3:79:ARG:HB2	1.93	0.49
1:L6:101:TRP:HD1	1:L6:145:SER:HG	1.59	0.49
2:L9:406:HIS:HA	2:L9:409:VAL:HG22	1.94	0.49
1:M0:125:GLU:OE2	1:M0:159:TYR:OH	2.28	0.49
2:M5:111:GLY:HA2	2:M5:114:ILE:HG22	1.92	0.49
2:N5:287:SER:OG	2:N5:288:VAL:N	2.44	0.49
1:N6:77:ARG:HH22	27:7G:166:CYS:HB3	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O7:5:ILE:HD11	2:O7:135:PHE:CE1	2.48	0.49
2:O7:267:PHE:HB2	2:O7:384:ILE:CD1	2.41	0.49
2:P3:286:LEU:HD22	2:P3:371:VAL:HG13	1.93	0.49
2:P3:338:LYS:NZ	2:P3:339:ARG:H	2.11	0.49
2:P9:71:GLU:HB3	2:P9:98:ASP:OD1	2.12	0.49
2:Q1:379:SER:OG	2:Q1:380:ASN:N	2.45	0.49
1:Q8:22:GLU:HG2	1:Q8:81:TYR:CD2	2.47	0.49
1:Q8:220:PRO:HD2	2:Q9:326:LYS:CD	2.42	0.49
1:Q8:291:GLN:HG3	1:Q8:292:GLN:N	2.27	0.49
1:Q8:311:LEU:HD12	1:Q8:342:VAL:HG21	1.93	0.49
2:R7:175:PRO:HB3	2:R7:390:ARG:NE	2.27	0.49
2:R7:405:VAL:CG1	17:5U:112:VAL:HG11	2.43	0.49
1:S4:11:GLN:HA	1:S4:72:THR:HG21	1.95	0.49
2:S7:105:ARG:CA	2:S7:411:GLU:HG2	2.42	0.49
2:S9:70:LEU:HD12	2:S9:99:ALA:HB2	1.94	0.49
1:T0:113:ILE:HD11	1:T0:151:LEU:HD13	1.95	0.49
1:T4:42:LEU:HD23	21:6H:94:THR:OG1	2.11	0.49
2:U1:98:ASP:OD1	2:U1:99:ALA:N	2.46	0.49
1:U8:5:VAL:HG12	1:U8:133:PHE:CD1	2.47	0.49
2:U9:137:VAL:HG22	2:U9:168:GLY:HA2	1.94	0.49
2:V1:176:GLN:HB2	2:V1:207:GLU:OE2	2.13	0.49
1:V4:3:GLU:HB2	1:V4:130:LEU:HA	1.93	0.49
1:V8:5:VAL:HG12	1:V8:133:PHE:CD1	2.48	0.49
2:W7:60:LYS:NZ	2:Y3:283:HIS:ND1	2.49	0.49
2:W7:88:HIS:HB3	2:W7:91:GLN:CG	2.43	0.49
2:W7:177:VAL:N	2:W7:207:GLU:OE2	2.32	0.49
2:W7:224:TYR:H	1:W8:245:GLN:HE22	1.60	0.49
2:W7:258:ASN:HB2	2:W7:259:LEU:HD12	1.93	0.49
2:W9:399:TYR:OH	2:W9:415:GLU:OE2	2.30	0.49
1:X4:31:ASP:OD2	1:X4:33:THR:OG1	2.21	0.49
1:X6:311:LEU:HD11	1:X6:372:THR:HG23	1.94	0.49
2:X7:206:ASN:OD1	41:X7:501:GTP:N2	2.45	0.49
1:X8:330:MET:N	1:X8:330:MET:SD	2.86	0.49
2:X9:52:PHE:HZ	2:X9:239:THR:HG21	1.77	0.49
1:Y0:49:VAL:O	1:Y0:62:ARG:NH1	2.45	0.49
1:Y2:67:ASP:N	1:Y2:67:ASP:OD1	2.43	0.49
2:Y3:195:LEU:HD21	2:Y3:428:LEU:HD12	1.95	0.49
2:Y5:90:GLU:HB3	2:Y5:121:ARG:HH12	1.76	0.49
1:Y6:203:ASP:HB2	1:Y6:205:GLU:OE1	2.12	0.49
1:Z0:198:GLU:HG3	1:Z0:266:PHE:HE2	1.76	0.49
2:Z1:33:ASP:OD2	2:Z1:35:GLN:NE2	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z1:276:ILE:HG23	2:Z1:280:LYS:HB3	1.94	0.49
1:Z2:388:MET:HG3	1:Z2:393:ALA:HB3	1.94	0.49
1:Z4:167:PHE:HD1	1:Z4:200:MET:HB2	1.77	0.49
2:Z5:232:ALA:HA	2:Z5:235:ILE:HG22	1.95	0.49
2:Z7:275:ILE:HD12	2:Z7:368:LEU:HD21	1.93	0.49
1:0E:55:THR:H	1:0E:58:ARG:HB3	1.78	0.49
2:0F:111:GLY:HA2	2:0F:114:ILE:HG22	1.94	0.49
1:0K:206:ALA:O	1:0K:210:ILE:HG13	2.13	0.49
2:0L:195:LEU:HD13	2:0L:428:LEU:HD21	1.95	0.49
2:0L:278:ALA:HA	2:0L:369:ALA:HB2	1.95	0.49
2:0N:429:GLU:O	2:0N:433:GLU:HG2	2.13	0.49
1:0O:113:ILE:HD11	1:0O:151:LEU:HA	1.93	0.49
2:0R:145:THR:OG1	41:0S:501:GTP:O1B	2.30	0.49
1:0S:116:VAL:HA	1:0S:119:VAL:HG12	1.93	0.49
2:0V:287:SER:N	2:0V:290:GLU:OE2	2.46	0.49
1:0W:210:ILE:O	1:0W:214:THR:OG1	2.30	0.49
1:1C:318:ARG:NE	1:1C:356:ILE:O	2.43	0.49
1:1C:395:LEU:HG	1:1C:399:THR:OG1	2.13	0.49
2:1D:24:TYR:O	2:1D:27:GLU:HG2	2.12	0.49
2:1F:26:LEU:HD23	2:1F:363:VAL:HG12	1.94	0.49
2:1F:69:ASP:OD2	2:1F:70:LEU:N	2.45	0.49
1:1G:388:MET:CA	1:1G:388:MET:CE	2.85	0.49
1:1K:193:VAL:HG12	1:1K:265:PHE:CZ	2.47	0.49
1:1M:114:ASP:OD1	1:1M:114:ASP:N	2.46	0.49
1:1S:167:PHE:CE2	1:1S:233:MET:HG2	2.46	0.49
1:1S:317:PHE:HB3	1:1S:321:MET:SD	2.52	0.49
2:1T:189:LEU:HD11	2:1T:418:PHE:HE1	1.76	0.49
2:1X:277:SER:OG	2:1X:278:ALA:N	2.45	0.49
1:2E:2:ARG:HE	1:2E:240:LEU:HD22	1.77	0.49
1:2G:204:ASN:HD21	39:2G:502:GDP:HN22	1.60	0.49
2:2N:22:GLU:O	2:2N:26:LEU:HG	2.11	0.49
2:2N:227:LEU:O	2:2N:231:ILE:HG12	2.13	0.49
1:2U:273:LEU:H	1:2U:292:GLN:NE2	2.09	0.49
2:2V:145:THR:OG1	41:2W:501:GTP:O1B	2.30	0.49
1:3C:5:VAL:HG12	1:3C:62:ARG:HD3	1.94	0.49
2:3F:221:ARG:HD2	1:3G:325:GLU:OE1	2.12	0.49
1:3I:114:ASP:N	1:3I:114:ASP:OD1	2.45	0.49
2:3L:72:PRO:HG3	1:3M:1:MET:HG3	1.93	0.49
1:3M:177:ASP:O	2:3N:352:LYS:HA	2.12	0.49
1:3M:391:ARG:NH1	2:3N:346:TRP:CE3	2.80	0.49
2:3N:394:LYS:HB2	1:3O:346:PRO:HG3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3R:42:ILE:HG13	2:3R:43:GLY:N	2.28	0.49
1:3S:216:LYS:HB2	1:3S:275:SER:HG	1.77	0.49
4:4A:15:TYR:CE2	4:4A:17:ILE:HB	2.47	0.49
4:4C:14:LEU:HD23	4:4C:162:ILE:HD11	1.94	0.49
4:4E:14:LEU:HD23	4:4E:162:ILE:HD11	1.94	0.49
4:4E:15:TYR:CE2	4:4E:17:ILE:HB	2.47	0.49
6:4O:186:GLU:O	6:4O:190:LYS:HG2	2.11	0.49
6:4P:196:VAL:O	6:4P:200:MET:HG2	2.12	0.49
7:4T:261:ASP:OD2	7:4T:262:HIS:N	2.45	0.49
9:4Z:348:GLU:HB3	9:4Z:352:TYR:CZ	2.46	0.49
10:5A:297:ALA:O	10:5A:300:ILE:HG12	2.13	0.49
11:5E:75:LEU:O	11:5E:79:GLN:HG3	2.13	0.49
12:5F:383:ARG:HH22	12:7B:32:GLN:HG2	1.77	0.49
14:5L:378:ILE:HG22	23:6Q:55:VAL:HB	1.95	0.49
15:5O:196:PHE:O	15:5O:204:ALA:HB2	2.13	0.49
17:5T:179:GLN:O	17:5T:182:VAL:HG22	2.12	0.49
18:5Y:101:LYS:O	24:6V:178:ASN:ND2	2.30	0.49
22:6N:314:CYS:SG	22:6N:321:LEU:HB2	2.53	0.49
12:7B:39:PHE:HB3	12:7B:44:ILE:HG21	1.93	0.49
27:7G:42:THR:HG23	27:7G:45:GLU:H	1.78	0.49
27:7G:105:LEU:HD11	27:7G:116:ASN:ND2	2.28	0.49
29:7I:161:GLU:OE2	29:7I:165:ARG:HD3	2.12	0.49
31:7N:45:GLU:N	31:7N:45:GLU:OE2	2.43	0.49
38:8B:172:GLY:O	38:8B:174:SER:N	2.46	0.49
38:8D:91:GLN:HG3	38:8D:92:GLU:H	1.78	0.49
2:A2:423:GLU:CD	4:4G:108:TYR:HH	2.03	0.49
1:B1:39:ASP:OD1	18:5Y:20:LYS:HE2	2.11	0.49
1:C6:143:THR:N	39:C6:501:GDP:O1B	2.45	0.49
1:E4:33:THR:HG23	24:6V:403:PRO:HB2	1.93	0.49
1:E4:320:ARG:NH2	22:6K:31:TYR:OH	2.45	0.49
2:G1:27:GLU:CD	2:G1:243:ARG:HH12	2.15	0.49
1:H2:35:THR:HG22	28:7H:312:LEU:CD2	2.41	0.49
1:H2:337:ASN:HB3	1:H2:340:TYR:HD2	1.77	0.49
2:H3:205:ASP:OD1	2:H3:303:VAL:HG13	2.13	0.49
1:H6:377:MET:O	1:H6:380:ARG:HG2	2.13	0.49
2:H7:71:GLU:HB2	2:H7:98:ASP:OD1	2.13	0.49
2:H7:289:ALA:O	2:H7:292:THR:OG1	2.28	0.49
2:H7:399:TYR:OH	2:H7:415:GLU:OE1	2.15	0.49
2:I5:88:HIS:ND1	2:K1:283:HIS:O	2.46	0.49
2:I7:288:VAL:O	2:I7:292:THR:HG23	2.13	0.49
2:I9:8:HIS:CD2	2:I9:138:PHE:HD2	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J4:22:GLU:HG3	1:J4:81:TYR:CD1	2.47	0.49
2:J7:205:ASP:OD2	2:J7:206:ASN:N	2.46	0.49
2:J7:417:GLU:HA	2:J7:420:GLU:HG2	1.95	0.49
2:K1:405:VAL:O	2:K1:409:VAL:HG23	2.13	0.49
2:K5:352:LYS:NZ	2:K5:353:CYS:O	2.44	0.49
2:L1:201:ALA:O	2:L1:268:MET:HE2	2.12	0.49
2:L5:170:THR:HG21	2:L5:194:LEU:HD11	1.95	0.49
2:L5:278:ALA:HA	2:L5:369:ALA:HB2	1.95	0.49
1:M2:49:VAL:HG11	1:M2:241:ARG:HG2	1.94	0.49
2:M5:305:CYS:HB3	2:M5:387:ILE:HD11	1.94	0.49
1:N2:360:GLY:O	30:7L:304:GLN:NE2	2.46	0.49
2:N7:9:ILE:HD13	2:N7:150:GLY:HA2	1.94	0.49
2:N7:90:GLU:N	2:N7:90:GLU:OE2	2.45	0.49
1:O0:373:ALA:O	1:O0:376:GLU:HG3	2.13	0.49
1:O2:278:SER:O	1:O2:279:GLN:C	2.50	0.49
1:O6:55:THR:OG1	20:6F:94:THR:HG21	2.12	0.49
2:P9:174:SER:HB3	2:P9:177:VAL:O	2.12	0.49
2:Q3:56:THR:HA	2:R9:285:GLN:HB3	1.94	0.49
2:Q3:209:ILE:HG23	2:Q3:230:LEU:HD11	1.95	0.49
1:Q6:344:TRP:CE3	1:Q6:345:ILE:HG13	2.48	0.49
1:Q8:268:VAL:O	1:Q8:300:MET:N	2.38	0.49
2:R1:96:LYS:HG2	1:R2:1:MET:HE3	1.95	0.49
2:R1:264:ARG:NH1	2:R1:431:ASP:OD1	2.46	0.49
2:R1:313:MET:HB2	2:R1:380:ASN:HB3	1.94	0.49
2:R1:327:ASP:N	2:R1:327:ASP:OD1	2.45	0.49
1:R4:145:SER:OG	1:R4:188:SER:OG	2.29	0.49
2:S1:242:LEU:HD11	2:S1:252:ILE:HG12	1.95	0.49
1:S2:118:ASP:OD2	13:5K:106:TYR:N	2.46	0.49
1:S4:91:VAL:HG21	1:S4:116:VAL:HG22	1.94	0.49
1:S6:276:ARG:HB3	7:4T:242:MET:HB3	1.95	0.49
1:T2:12:CYS:SG	1:T2:138:SER:HB2	2.53	0.49
1:T2:219:THR:O	1:T2:219:THR:OG1	2.31	0.49
2:T3:337:THR:HG23	13:5J:21:ASN:ND2	2.28	0.49
2:T5:24:TYR:O	2:T5:27:GLU:HG2	2.13	0.49
1:T6:50:TYR:CE2	1:T6:241:ARG:HD3	2.48	0.49
2:T7:254:GLU:HG2	2:T7:352:LYS:HE2	1.93	0.49
1:U4:49:VAL:HG11	1:U4:241:ARG:HG2	1.95	0.49
2:U7:101:ASN:ND2	2:U7:143:GLY:HA2	2.27	0.49
2:V1:166:LYS:N	2:V1:199:ASP:OD2	2.39	0.49
2:V3:187:SER:O	2:V3:191:THR:HG23	2.12	0.49
2:V3:200:VAL:HG13	2:V3:268:MET:CE	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V3:292:THR:HG1	2:V3:319:TYR:HH	1.59	0.49
2:V9:109:THR:OG1	2:V9:411:GLU:OE2	2.20	0.49
2:V9:306:ASP:HB3	2:V9:309:HIS:HD2	1.78	0.49
2:V9:399:TYR:O	2:V9:402:ARG:NH1	2.45	0.49
1:W0:220:PRO:HD2	2:W1:326:LYS:CD	2.42	0.49
1:W2:167:PHE:CZ	1:W2:233:MET:HG2	2.48	0.49
1:W6:67:ASP:N	1:W6:67:ASP:OD1	2.45	0.49
1:W8:5:VAL:HG23	1:W8:62:ARG:HG2	1.94	0.49
1:X0:58:ARG:HG2	1:Y6:280:GLN:HE22	1.77	0.49
1:X4:50:TYR:OH	1:X4:237:THR:OG1	2.20	0.49
1:X6:324:LYS:NZ	1:X6:325:GLU:OE2	2.41	0.49
2:X7:76:ASP:HA	2:X7:79:ARG:HB2	1.95	0.49
1:Y0:58:ARG:NH1	1:Y0:83:GLN:O	2.46	0.49
1:Z2:54:ALA:HB3	1:Z2:58:ARG:HB3	1.94	0.49
2:Z3:313:MET:HE2	2:Z3:380:ASN:HD22	1.78	0.49
1:Z6:165:LEU:HD11	1:Z6:200:MET:HG2	1.95	0.49
2:Z7:33:ASP:O	2:Z7:60:LYS:NZ	2.45	0.49
2:Z9:167:LEU:HD13	2:Z9:200:VAL:HB	1.93	0.49
1:0A:249:ASP:O	1:0A:253:LEU:HG	2.13	0.49
2:0F:381:SER:OG	2:0F:382:THR:N	2.44	0.49
2:0H:211:ASP:OD1	2:0H:214:ARG:NH2	2.40	0.49
1:0I:391:ARG:HD3	2:0J:346:TRP:CE2	2.47	0.49
1:0M:12:CYS:HB2	39:0M:502:GDP:C8	2.48	0.49
2:0R:288:VAL:HA	2:0R:291:ILE:HD11	1.94	0.49
1:0S:222:PHE:HA	1:0S:225:LEU:HD13	1.93	0.49
2:0V:277:SER:H	2:0V:280:LYS:HB2	1.78	0.49
1:0W:95:THR:OG1	1:0W:108:GLU:OE1	2.30	0.49
1:0W:186:THR:HG22	1:0W:411:ALA:HB1	1.95	0.49
1:0Y:287:PRO:HA	1:0Y:290:THR:HG22	1.95	0.49
2:0Z:223:THR:HG23	2:0Z:225:THR:H	1.77	0.49
2:1B:317:LEU:HB3	2:1B:319:TYR:HE1	1.77	0.49
1:1C:21:TRP:O	1:1C:25:SER:OG	2.22	0.49
2:1D:261:PRO:HB3	2:1D:346:TRP:HH2	1.78	0.49
2:1D:318:MET:HB2	2:1D:376:CYS:HB3	1.94	0.49
1:1E:248:ALA:CB	1:1E:252:LYS:HD3	2.43	0.49
2:1L:417:GLU:HA	2:1L:420:GLU:HG2	1.95	0.49
1:1M:3:GLU:HB2	1:1M:130:LEU:HA	1.94	0.49
2:1P:116:ASP:N	2:1P:116:ASP:OD1	2.43	0.49
1:1Q:371:SER:OG	1:1Q:372:THR:N	2.46	0.49
2:1T:11:GLN:OE1	2:1T:15:GLN:NE2	2.45	0.49
1:1U:325:GLU:OE1	1:1U:325:GLU:N	2.40	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2D:236:SER:O	2:2D:243:ARG:NH2	2.45	0.49
1:2S:336:LYS:NZ	38:8A:55:ALA:HB2	2.27	0.49
1:2U:194:GLU:N	1:2U:194:GLU:OE1	2.46	0.49
1:2U:317:PHE:HE2	1:2U:326:VAL:HG13	1.78	0.49
1:2Y:309:ARG:H	1:2Y:372:THR:HG22	1.78	0.49
1:3A:233:MET:O	1:3A:237:THR:HG22	2.12	0.49
2:3D:205:ASP:OD1	2:3D:206:ASN:N	2.46	0.49
1:3I:31:ASP:OD2	14:5L:240:MET:HA	2.12	0.49
2:3P:356:ASN:OD1	2:3P:357:TYR:N	2.46	0.49
1:3S:170:VAL:HB	1:3S:171:PRO:HD2	1.94	0.49
2:3T:420:GLU:HA	2:3T:423:GLU:HG3	1.95	0.49
4:4A:14:LEU:HD23	4:4A:162:ILE:HD11	1.94	0.49
4:4C:15:TYR:CE2	4:4C:17:ILE:HB	2.47	0.49
7:4S:6:ALA:O	7:4S:8:VAL:N	2.46	0.49
7:4U:55:PHE:O	7:4U:59:THR:HG23	2.13	0.49
8:4V:391:GLU:OE2	8:4V:395:ARG:HG3	2.13	0.49
10:5C:259:GLU:HA	10:5C:262:ILE:HG12	1.94	0.49
10:5C:431:LYS:O	10:5C:435:LEU:HG	2.12	0.49
14:5L:219:LEU:HD22	14:5L:228:PHE:CE2	2.46	0.49
14:5L:540:TYR:CD2	14:5L:540:TYR:C	2.85	0.49
14:5N:156:PHE:CZ	14:5N:223:LEU:HD22	2.47	0.49
15:5O:24:TYR:HE2	15:5O:46:PHE:CE2	2.31	0.49
20:6F:149:LEU:HD23	20:6F:149:LEU:H	1.78	0.49
22:6M:323:ASP:OD1	22:6M:324:LYS:N	2.45	0.49
24:6T:371:ALA:HB1	24:6T:375:THR:OG1	2.13	0.49
24:6U:36:VAL:HG22	24:6U:45:LEU:HD11	1.94	0.49
24:6U:185:ASP:O	24:6U:188:THR:OG1	2.28	0.49
24:6W:365:ASP:OD1	24:6W:365:ASP:N	2.43	0.49
24:6X:518:TYR:CD1	24:6X:521:ALA:HB2	2.48	0.49
24:6Y:88:TRP:HA	24:6Y:126:GLU:HG3	1.95	0.49
24:6Y:95:VAL:O	24:6Y:187:PHE:CD2	2.66	0.49
38:8C:158:MET:O	38:8C:162:VAL:HG23	2.12	0.49
2:A0:282:TYR:HE1	24:6X:88:TRP:CH2	2.29	0.49
1:A3:215:LEU:CD1	26:7F:136:PHE:CE2	2.96	0.49
2:D1:279:GLU:CD	18:6A:167:SER:HA	2.32	0.49
1:E4:219:THR:N	24:6V:312:ASN:OD1	2.21	0.49
2:G5:56:THR:HA	2:I1:285:GLN:HG2	1.95	0.49
2:G5:221:ARG:HB3	1:G6:322:SER:OG	2.13	0.49
2:G7:417:GLU:HA	2:G7:420:GLU:HG2	1.93	0.49
2:G9:56:THR:HA	2:I5:285:GLN:HB2	1.95	0.49
2:H1:72:PRO:HD2	1:H2:2:ARG:NH1	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H8:315:ALA:HB1	1:H8:317:PHE:CE1	2.47	0.49
2:I1:14:ILE:HD11	2:I1:74:VAL:HG13	1.94	0.49
2:I9:49:PHE:HB2	2:I9:53:PHE:HD2	1.78	0.49
1:J2:5:VAL:HB	1:J2:133:PHE:HD1	1.77	0.49
1:J4:375:GLN:HB2	1:J4:419:VAL:HG13	1.95	0.49
2:J5:101:ASN:HD22	2:J5:143:GLY:HA2	1.77	0.49
2:J7:196:GLU:OE2	2:J7:197:HIS:NE2	2.46	0.49
2:J9:90:GLU:HB3	2:L5:283:HIS:CE1	2.48	0.49
2:K3:9:ILE:HG13	2:K3:139:ASN:HB3	1.95	0.49
2:K3:417:GLU:HA	2:K3:420:GLU:HG2	1.94	0.49
1:K4:5:VAL:HG12	1:K4:62:ARG:HD3	1.94	0.49
1:K6:167:PHE:CE2	1:K6:233:MET:HG2	2.47	0.49
1:L2:285:THR:HG23	1:L2:288:GLU:H	1.78	0.49
1:M6:320:ARG:NH2	37:7Y:146:GLU:OE2	2.46	0.49
2:N1:90:GLU:O	2:N1:121:ARG:NH1	2.40	0.49
1:N6:145:SER:OG	1:N6:146:GLY:N	2.46	0.49
1:N6:153:SER:HA	1:N6:195:ASN:HD22	1.78	0.49
2:O1:250:VAL:HB	2:O1:254:GLU:HG3	1.95	0.49
2:O5:292:THR:HG1	2:O5:319:TYR:HH	1.59	0.49
2:O7:5:ILE:HG22	2:O7:64:ARG:HB3	1.94	0.49
2:P5:65:CYS:SG	2:P5:66:ILE:N	2.85	0.49
2:P5:88:HIS:CG	2:P5:89:PRO:HD2	2.40	0.49
2:P5:90:GLU:HB2	2:P5:121:ARG:NH1	2.26	0.49
1:P6:23:VAL:HG11	1:P6:230:SER:HB3	1.95	0.49
2:P7:388:PHE:HB3	2:P7:425:LEU:HD21	1.94	0.49
1:Q0:128:ASP:N	1:Q0:128:ASP:OD1	2.44	0.49
2:Q1:116:ASP:OD2	2:Q1:117:LEU:N	2.46	0.49
1:Q2:207:LEU:HB3	1:Q2:225:LEU:HD22	1.93	0.49
1:Q8:228:LEU:O	1:Q8:232:VAL:HG23	2.12	0.49
2:Q9:267:PHE:HB2	2:Q9:384:ILE:HD12	1.94	0.49
1:R4:220:PRO:HD2	2:R5:326:LYS:HD2	1.95	0.49
2:R5:9:ILE:HD11	2:R5:153:LEU:HD23	1.95	0.49
2:R7:336:LYS:O	2:R7:339:ARG:NH2	2.46	0.49
2:R9:417:GLU:HA	2:R9:420:GLU:HG2	1.94	0.49
1:S0:51:PHE:HB3	1:S0:59:TYR:HB3	1.95	0.49
2:T1:81:GLY:O	2:T1:84:ARG:NH1	2.45	0.49
1:T4:177:ASP:O	2:T5:352:LYS:HA	2.12	0.49
1:U2:207:LEU:HB3	1:U2:225:LEU:HD22	1.93	0.49
1:U4:285:THR:OG1	1:U4:287:PRO:HD2	2.12	0.49
2:V3:333:ALA:O	2:V3:337:THR:HG23	2.13	0.49
1:V6:50:TYR:OH	1:V6:237:THR:HB	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V6:263:LEU:HD13	1:V6:422:TYR:CE1	2.47	0.49
1:V8:25:SER:OG	1:V8:30:ILE:O	2.30	0.49
1:V8:152:ILE:HD11	1:V8:164:MET:HG2	1.95	0.49
2:V9:9:ILE:HD11	2:V9:153:LEU:HD23	1.95	0.49
1:W4:387:ALA:HA	1:W4:390:ARG:HH21	1.77	0.49
2:W5:147:SER:OG	2:W5:190:SER:HB2	2.12	0.49
1:W6:167:PHE:CZ	1:W6:233:MET:HG2	2.47	0.49
1:W8:309:ARG:H	1:W8:372:THR:HG22	1.78	0.49
1:X2:224:ASP:OD1	1:X2:225:LEU:N	2.46	0.49
1:X4:8:GLN:HG2	1:X4:17:GLY:HA3	1.95	0.49
1:X4:207:LEU:HB3	1:X4:225:LEU:HD22	1.95	0.49
1:X4:273:LEU:H	1:X4:292:GLN:NE2	2.11	0.49
2:X5:6:SER:HB2	2:X5:136:LEU:HD21	1.95	0.49
2:X7:12:ALA:HB2	41:X7:501:GTP:C8	2.48	0.49
1:Y4:27:GLU:OE2	1:Y4:318:ARG:NH2	2.41	0.49
1:Y8:68:LEU:HB3	1:Y8:96:GLY:HA2	1.93	0.49
1:Y8:260:PHE:CD2	1:Y8:263:LEU:HD23	2.47	0.49
2:Z1:338:LYS:HZ2	2:Z1:340:THR:H	1.60	0.49
1:Z2:5:VAL:HG13	1:Z2:123:GLU:OE2	2.13	0.49
1:Z2:414:ASN:O	1:Z2:418:LEU:HB2	2.13	0.49
1:Z4:130:LEU:HG	1:Z4:132:GLY:N	2.27	0.49
1:0A:8:GLN:HG2	1:0A:17:GLY:HA3	1.93	0.49
1:0C:173:PRO:HB3	1:0C:384:GLN:HE22	1.78	0.49
1:0K:265:PHE:HB2	1:0K:374:ILE:HD13	1.95	0.49
1:0K:337:ASN:HB3	1:0K:340:TYR:HD2	1.78	0.49
1:0M:350:LYS:HZ3	1:0M:352:SER:HB3	1.78	0.49
2:0N:205:ASP:OD1	2:0N:207:GLU:N	2.46	0.49
1:0Q:3:GLU:O	1:0Q:131:GLN:N	2.41	0.49
2:0R:76:ASP:HA	2:0R:79:ARG:HD2	1.94	0.49
2:0R:305:CYS:HB3	2:0R:387:ILE:HD11	1.94	0.49
1:0S:314:SER:HA	1:0S:350:LYS:O	2.13	0.49
1:0U:268:VAL:HG13	1:0U:300:MET:HB2	1.95	0.49
2:0X:417:GLU:HA	2:0X:420:GLU:HG2	1.95	0.49
1:1A:392:LYS:HD2	1:1A:395:LEU:HD22	1.95	0.49
1:1A:418:LEU:HG	1:1A:422:TYR:HE2	1.78	0.49
1:1C:309:ARG:NH1	1:1C:341:PHE:O	2.45	0.49
1:1E:259:PRO:HG3	1:1E:311:LEU:HD21	1.95	0.49
1:1G:127:CYS:SG	1:1G:128:ASP:N	2.86	0.49
2:1H:343:PHE:N	2:1H:343:PHE:CD2	2.81	0.49
1:1K:114:ASP:N	1:1K:114:ASP:OD1	2.46	0.49
2:1L:203:MET:C	2:1L:204:LEU:HD12	2.33	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1M:350:LYS:NZ	1:1M:351:SER:O	2.38	0.49
1:1Q:66:MET:SD	1:1Q:147:MET:HG3	2.53	0.49
1:1S:193:VAL:HG23	1:1S:194:GLU:OE1	2.13	0.49
1:1U:350:LYS:NZ	1:1U:351:SER:O	2.45	0.49
2:1X:175:PRO:HB3	2:1X:390:ARG:HE	1.78	0.49
2:2B:213:CYS:HA	2:2B:217:LEU:HB2	1.95	0.49
1:2E:207:LEU:HB3	1:2E:225:LEU:HD22	1.95	0.49
2:2F:417:GLU:HA	2:2F:420:GLU:HG2	1.95	0.49
2:2J:290:GLU:HA	2:2J:293:ASN:HD22	1.78	0.49
2:2N:65:CYS:SG	2:2N:66:ILE:N	2.86	0.49
2:2P:2:ARG:HG3	2:2P:242:LEU:HD12	1.95	0.49
2:2P:277:SER:OG	2:2P:278:ALA:N	2.45	0.49
1:2Q:317:PHE:HE2	1:2Q:326:VAL:HG13	1.77	0.49
1:2Q:404:ASP:HB3	1:2Q:406:MET:SD	2.53	0.49
2:2R:21:TRP:CZ2	2:2R:65:CYS:HB2	2.47	0.49
2:2R:251:ASP:N	2:2R:254:GLU:OE2	2.45	0.49
1:3A:68:LEU:HD23	1:3A:93:GLY:HA3	1.95	0.49
2:3F:333:ALA:O	2:3F:337:THR:HG23	2.13	0.49
2:3L:27:GLU:OE1	2:3L:243:ARG:NH1	2.46	0.49
1:3M:391:ARG:HH11	2:3N:346:TRP:CB	2.25	0.49
1:3O:90:PHE:CD2	3:4F:19:LEU:HD22	2.48	0.49
1:3S:362:LYS:HE2	38:8D:166:GLU:HB3	1.95	0.49
10:5B:265:LYS:O	10:5B:269:GLU:HG2	2.12	0.49
10:5D:132:THR:HG1	14:5N:81:PHE:HE1	1.58	0.49
12:5F:290:PHE:HE2	12:5F:305:GLN:HG3	1.78	0.49
14:5L:28:ARG:O	14:5L:28:ARG:HG3	2.13	0.49
22:6J:16:LYS:HD3	22:6J:20:TYR:CE2	2.47	0.49
22:6K:145:SER:OG	22:6K:148:ASN:ND2	2.46	0.49
22:6L:313:GLY:O	22:6L:317:VAL:HG23	2.13	0.49
22:6N:266:LYS:O	22:6N:269:GLU:HG3	2.12	0.49
22:6P:45:PRO:HB3	22:6P:51:ILE:HG23	1.93	0.49
24:6T:45:LEU:H	24:6T:45:LEU:HD23	1.78	0.49
24:6U:536:ASP:HB3	24:6U:539:THR:HG23	1.95	0.49
24:6W:488:ARG:NH1	24:6W:488:ARG:CB	2.73	0.49
24:6X:22:LEU:H	24:6X:22:LEU:HD23	1.77	0.49
24:6Y:469:PHE:HB3	24:6Y:484:GLU:HB3	1.95	0.49
24:6Y:499:GLU:OE1	24:6Y:499:GLU:N	2.42	0.49
12:7B:46:ASP:HB3	12:7B:48:PRO:HD2	1.94	0.49
26:7E:59:ARG:HG2	26:7E:59:ARG:NH1	2.28	0.49
34:7R:208:ARG:NH1	36:7V:90:GLU:OE2	2.45	0.49
38:8B:165:LYS:H	38:8B:165:LYS:CD	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:8C:8:GLU:O	38:8C:12:LEU:HG	2.13	0.49
2:A2:218:ASP:OD1	26:7F:81:LYS:HB2	2.13	0.49
2:F3:12:ALA:HB2	41:F3:501:GTP:C8	2.47	0.49
2:G1:298:PRO:HA	2:G1:301:MET:HG3	1.95	0.49
1:G2:67:ASP:N	1:G2:67:ASP:OD1	2.44	0.49
2:G5:379:SER:OG	2:G5:380:ASN:N	2.45	0.49
1:G6:3:GLU:CD	1:G6:62:ARG:HH12	2.16	0.49
1:G6:233:MET:O	1:G6:237:THR:HG22	2.13	0.49
1:G6:345:ILE:O	1:G6:348:ASN:ND2	2.45	0.49
1:G8:260:PHE:HB2	1:G8:263:LEU:HD23	1.94	0.49
2:G9:387:ILE:O	2:G9:391:LEU:HG	2.13	0.49
2:H3:85:GLN:O	2:I9:283:HIS:CE1	2.66	0.49
2:H3:278:ALA:CA	2:H3:369:ALA:HB2	2.39	0.49
2:H5:119:LEU:HA	2:H5:122:ILE:HG22	1.94	0.49
1:H6:117:LEU:HA	1:H6:120:VAL:HG12	1.94	0.49
1:H6:203:ASP:OD1	1:H6:204:ASN:N	2.46	0.49
1:H6:337:ASN:HB3	1:H6:340:TYR:HD2	1.78	0.49
2:I5:49:PHE:HB2	2:I5:53:PHE:HD2	1.76	0.49
2:J1:223:THR:HG23	1:J2:323:THR:HG23	1.95	0.49
1:J8:309:ARG:NH1	1:J8:339:SER:O	2.46	0.49
2:L3:12:ALA:HB2	41:L4:501:GTP:C8	2.48	0.49
2:L3:278:ALA:HA	2:L3:369:ALA:HB2	1.94	0.49
2:L3:311:LYS:HE2	2:L3:344:VAL:HA	1.94	0.49
2:M1:280:LYS:O	2:M1:283:HIS:HB3	2.11	0.49
1:M2:322:SER:HB3	1:M2:325:GLU:HB2	1.94	0.49
1:M6:80:PRO:CB	15:5P:69:PHE:CE1	2.96	0.49
1:M8:114:ASP:N	1:M8:114:ASP:OD1	2.45	0.49
2:M9:33:ASP:CG	30:7K:10:ARG:HH21	2.15	0.49
2:M9:280:LYS:HZ1	29:7J:320:PRO:HB2	1.78	0.49
1:N2:273:LEU:H	1:N2:292:GLN:HE22	1.59	0.49
2:N3:292:THR:HG22	2:N3:319:TYR:OH	2.12	0.49
1:N6:113:ILE:HA	1:N6:116:VAL:HG22	1.95	0.49
2:N7:334:THR:HA	2:N7:337:THR:HG22	1.95	0.49
2:O1:21:TRP:CZ2	2:O1:65:CYS:HB2	2.47	0.49
1:O2:207:LEU:HB3	1:O2:225:LEU:HD22	1.95	0.49
1:O2:292:GLN:HG2	1:O2:298:ASN:HD22	1.78	0.49
1:O2:356:ILE:HD12	37:7Y:234:HIS:HA	1.94	0.49
2:O3:394:LYS:HB2	1:O4:346:PRO:HG3	1.93	0.49
1:O6:125:GLU:OE2	1:O6:159:TYR:OH	2.31	0.49
2:O7:223:THR:OG1	1:O8:245:GLN:NE2	2.46	0.49
2:P3:333:ALA:O	2:P3:337:THR:HG23	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P7:53:PHE:HB3	2:P7:61:HIS:HB3	1.95	0.49
2:P9:56:THR:HA	2:R5:285:GLN:HB3	1.95	0.49
1:Q4:180:VAL:HG23	1:Q4:184:ASN:ND2	2.28	0.49
2:Q9:408:TYR:HB3	2:Q9:413:MET:HE2	1.93	0.49
2:R1:223:THR:HG22	2:R1:224:TYR:N	2.27	0.49
2:R1:425:LEU:O	2:R1:429:GLU:HG2	2.12	0.49
1:R2:238:CYS:SG	1:R2:318:ARG:NE	2.85	0.49
2:R3:237:SER:HA	2:R3:320:ARG:HD2	1.95	0.49
1:R4:167:PHE:CE2	1:R4:233:MET:HG2	2.47	0.49
1:R8:210:ILE:O	1:R8:214:THR:OG1	2.28	0.49
1:S0:180:VAL:HG23	1:S0:184:ASN:HD21	1.78	0.49
1:S2:189:VAL:O	1:S2:193:VAL:HG13	2.13	0.49
2:S5:195:LEU:HD21	2:S5:264:ARG:NH2	2.28	0.49
1:S8:11:GLN:HE22	2:S9:249:ASN:H	1.61	0.49
1:S8:238:CYS:SG	1:S8:318:ARG:NE	2.85	0.49
1:S8:248:ALA:HA	1:S8:252:LYS:HD2	1.95	0.49
1:S8:271:THR:HG21	1:S8:293:MET:HG3	1.94	0.49
1:T0:14:ASN:HD22	1:T0:65:LEU:HD22	1.78	0.49
2:T1:3:GLU:HB2	2:T1:129:CYS:SG	2.53	0.49
2:T1:66:ILE:O	2:T1:66:ILE:HG13	2.13	0.49
1:U2:41:ASP:N	1:U2:41:ASP:OD1	2.44	0.49
1:U6:53:GLU:N	1:U6:53:GLU:OE2	2.46	0.49
2:U9:222:PRO:HD2	1:V0:324:LYS:HE3	1.93	0.49
1:V0:272:PRO:HD2	1:V0:361:LEU:HD21	1.95	0.49
1:V2:10:GLY:O	1:V2:14:ASN:HB2	2.13	0.49
1:V6:237:THR:OG1	1:V6:241:ARG:NH2	2.37	0.49
2:W1:89:PRO:CB	2:X7:280:LYS:HZ1	2.24	0.49
1:W2:203:ASP:OD2	1:W2:302:ALA:N	2.46	0.49
1:W4:173:PRO:O	2:W5:336:LYS:NZ	2.46	0.49
2:X3:201:ALA:O	2:X3:268:MET:HE2	2.13	0.49
1:X8:130:LEU:HB2	1:X8:162:ARG:HE	1.77	0.49
2:Y3:12:ALA:HB2	41:Y4:501:GTP:C8	2.48	0.49
2:Y9:115:VAL:HG23	2:Y9:153:LEU:HD22	1.93	0.49
2:Z1:12:ALA:O	2:Z1:16:VAL:HG23	2.12	0.49
2:Z1:21:TRP:CZ3	2:Z1:63:PRO:HB3	2.48	0.49
1:Z2:405:GLU:HA	1:Z2:408:PHE:HD2	1.77	0.49
2:Z3:12:ALA:O	2:Z3:16:VAL:HG23	2.13	0.49
2:Z3:407:TRP:HZ2	1:Z4:258:ILE:HB	1.77	0.49
1:Z8:134:GLN:HE21	1:Z8:167:PHE:HE2	1.61	0.49
1:Z8:263:LEU:HD13	1:Z8:422:TYR:CZ	2.48	0.49
1:0C:67:ASP:N	1:0C:67:ASP:OD1	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0E:20:PHE:O	1:0E:24:VAL:HG23	2.13	0.49
1:0E:237:THR:HG23	1:0E:241:ARG:HE	1.78	0.49
2:0J:30:ILE:HG12	2:0J:36:MET:HG2	1.95	0.49
1:0O:165:LEU:HD22	1:0O:167:PHE:HE1	1.77	0.49
1:0Q:382:SER:HB3	1:0Q:415:MET:HG2	1.95	0.49
2:0R:286:LEU:HD23	2:0R:286:LEU:H	1.78	0.49
1:0U:375:GLN:HB3	1:0U:422:TYR:CD2	2.47	0.49
2:0X:49:PHE:HB2	2:0X:53:PHE:HD2	1.77	0.49
2:0Z:176:GLN:HG2	2:0Z:177:VAL:N	2.28	0.49
1:1A:27:GLU:OE1	1:1A:241:ARG:NH2	2.39	0.49
1:1A:210:ILE:O	1:1A:214:THR:OG1	2.20	0.49
2:1B:66:ILE:O	2:1B:66:ILE:HG13	2.13	0.49
2:1D:5:ILE:HG22	2:1D:64:ARG:HB3	1.95	0.49
2:1H:57:GLY:H	2:1X:285:GLN:HB2	1.78	0.49
2:1H:182:VAL:HG23	2:1H:186:ASN:HD21	1.77	0.49
2:1N:317:LEU:HB3	2:1N:319:TYR:CE1	2.48	0.49
2:1P:285:GLN:HG2	2:1P:286:LEU:H	1.78	0.49
1:1Q:388:MET:HE2	2:1R:348:PRO:HD2	1.93	0.49
2:1T:176:GLN:HG2	2:1T:177:VAL:HG13	1.95	0.49
2:1V:111:GLY:HA2	2:1V:149:LEU:HD13	1.94	0.49
1:1W:121:ARG:NH2	1:1W:158:GLU:OE2	2.43	0.49
2:2F:287:SER:OG	2:2F:288:VAL:N	2.44	0.49
2:2H:119:LEU:HA	2:2H:122:ILE:HG22	1.95	0.49
2:2J:27:GLU:OE1	2:2J:243:ARG:NH1	2.45	0.49
2:2J:56:THR:HA	2:2Z:285:GLN:HB2	1.93	0.49
1:2K:121:ARG:NH2	1:2K:158:GLU:OE2	2.36	0.49
2:2L:120:ASP:OD2	38:8C:24:TYR:HB3	2.13	0.49
2:2N:123:ARG:O	2:2N:127:ASP:N	2.41	0.49
2:2P:183:GLU:HG3	2:2P:184:PRO:HD3	1.95	0.49
1:2Q:174:LYS:HE3	38:8A:109:THR:HG21	1.94	0.49
2:2R:223:THR:HG22	2:2R:224:TYR:H	1.78	0.49
2:2T:319:TYR:HB3	2:2T:323:VAL:HG21	1.95	0.49
2:2Z:109:THR:OG1	2:2Z:411:GLU:OE2	2.29	0.49
1:3C:2:ARG:HE	1:3C:240:LEU:HD22	1.78	0.49
1:3C:77:ARG:HG3	1:3C:77:ARG:NH1	2.28	0.49
2:3D:113:GLU:OE1	2:3D:114:ILE:HB	2.13	0.49
2:3F:156:ARG:HA	2:3F:159:VAL:HG12	1.95	0.49
1:3O:276:ARG:NH2	17:5U:223:GLU:OE1	2.46	0.49
1:3S:203:ASP:OD2	1:3S:302:ALA:N	2.45	0.49
2:3T:163:LYS:HE3	3:4J:137:ARG:HG2	1.95	0.49
2:3T:417:GLU:O	2:3T:420:GLU:HG2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4J:267:TYR:HB3	3:4J:273:LEU:HD11	1.93	0.49
10:5C:404:ARG:NH1	38:8C:194:GLU:HB3	2.28	0.49
11:5E:218:ASP:N	11:5E:218:ASP:OD1	2.46	0.49
14:5L:127:ASN:OD1	14:5L:149:PHE:HA	2.12	0.49
14:5L:207:GLU:HG3	14:5L:208:TYR:CD2	2.48	0.49
14:5L:482:ASP:HA	14:5L:498:LEU:HB3	1.95	0.49
14:5M:28:ARG:O	14:5M:28:ARG:HG3	2.13	0.49
14:5M:482:ASP:HA	14:5M:498:LEU:HB3	1.95	0.49
14:5M:519:HIS:ND1	14:5M:520:PRO:HD2	2.26	0.49
14:5N:28:ARG:O	14:5N:28:ARG:HG3	2.13	0.49
14:5N:180:ASN:OD1	14:5N:180:ASN:N	2.25	0.49
15:5O:81:GLU:O	15:5O:84:ARG:HB3	2.13	0.49
15:5O:226:ARG:CG	15:5O:226:ARG:NH1	2.58	0.49
15:5P:92:GLU:O	15:5P:164:VAL:HA	2.13	0.49
16:5Q:60:HIS:HA	16:5Q:98:MET:O	2.13	0.49
18:5X:13:ARG:NH1	18:5X:207:ASP:OD1	2.45	0.49
18:5Z:13:ARG:NH1	18:5Z:207:ASP:OD1	2.45	0.49
18:6D:13:ARG:NH1	18:6D:207:ASP:OD1	2.45	0.49
20:6F:125:LYS:CE	20:6F:344:LEU:HD21	2.43	0.49
21:6H:200:LEU:O	21:6H:204:VAL:HG23	2.13	0.49
22:6J:114:THR:HG23	22:6J:117:GLY:H	1.78	0.49
22:6M:54:ARG:HA	24:6X:285:MET:HG3	1.95	0.49
24:6W:371:ALA:HB1	24:6W:375:THR:OG1	2.13	0.49
24:6W:503:ILE:HG21	24:6W:525:VAL:HG22	1.93	0.49
28:7H:319:ARG:HH21	28:7H:326:LEU:HD21	1.77	0.49
38:8A:31:GLU:CD	38:8A:33:LYS:HB3	2.32	0.49
38:8B:167:ASP:OD1	38:8B:168:PRO:HD2	2.13	0.49
2:8:280:LYS:HG2	2:T1:89:PRO:CG	2.42	0.49
1:A7:276:ARG:HH22	24:6T:210:VAL:HG21	1.78	0.49
1:B8:142:GLY:N	39:B8:501:GDP:O2B	2.45	0.49
2:F7:60:LYS:CE	2:H3:283:HIS:CD2	2.96	0.49
2:G1:333:ALA:O	2:G1:337:THR:HG23	2.13	0.49
2:G3:170:THR:HG21	2:G3:194:LEU:HD11	1.95	0.49
1:G4:130:LEU:HD23	1:G4:162:ARG:HG3	1.94	0.49
2:G7:4:VAL:HG23	2:G7:134:GLY:O	2.13	0.49
2:G7:325:PRO:HA	2:G7:328:VAL:HG12	1.94	0.49
2:H1:274:PRO:HB2	2:H1:276:ILE:HG12	1.95	0.49
2:H9:317:LEU:HD11	2:H9:351:PHE:CD2	2.45	0.49
2:H9:417:GLU:HA	2:H9:420:GLU:HG2	1.94	0.49
1:I0:215:LEU:HB3	1:I0:217:LEU:HG	1.94	0.49
2:I5:271:SER:N	2:I5:377:MET:O	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I8:301:CYS:SG	1:I8:302:ALA:N	2.86	0.49
2:I9:267:PHE:HB2	2:I9:384:ILE:HD12	1.94	0.49
2:I9:432:PHE:HA	2:I9:435:VAL:HG12	1.93	0.49
1:J4:190:HIS:CD2	1:J4:411:ALA:HA	2.48	0.49
2:J9:279:GLU:HA	5:4M:267:ASN:ND2	2.28	0.49
1:K0:395:LEU:O	1:K0:399:THR:HG23	2.13	0.49
2:K1:339:ARG:HE	2:K1:342:GLN:HE21	1.61	0.49
1:K4:336:LYS:HE2	28:7H:458:SER:O	2.13	0.49
1:L0:345:ILE:HB	1:L0:348:ASN:HD21	1.77	0.49
2:L7:191:THR:HA	2:L7:194:LEU:HB2	1.95	0.49
1:M0:135:VAL:HG11	1:M0:152:ILE:HD11	1.95	0.49
1:M2:6:HIS:NE2	1:M2:136:CYS:SG	2.86	0.49
2:M3:205:ASP:OD1	2:M3:206:ASN:N	2.45	0.49
2:M9:394:LYS:HB2	1:N0:346:PRO:HG3	1.94	0.49
1:N0:74:ASP:O	1:N0:78:SER:OG	2.28	0.49
2:N3:66:ILE:HD12	2:N3:68:LEU:HD11	1.94	0.49
1:N8:392:LYS:HB2	1:N8:395:LEU:HD22	1.95	0.49
2:O7:88:HIS:CD2	2:O7:89:PRO:HD2	2.48	0.49
1:P4:6:HIS:CE1	1:P4:8:GLN:HG3	2.48	0.49
1:Q4:317:PHE:HB3	1:Q4:321:MET:SD	2.53	0.49
2:Q9:56:THR:HG23	2:Q9:60:LYS:HB3	1.94	0.49
1:R0:309:ARG:H	1:R0:372:THR:HG22	1.78	0.49
1:R4:392:LYS:HD2	1:R4:395:LEU:HD22	1.95	0.49
2:S1:371:VAL:HG22	2:S1:373:ARG:H	1.78	0.49
1:T2:218:THR:HG22	24:6X:41:ARG:NH2	2.28	0.49
1:T6:204:ASN:HD21	39:T6:502:GDP:HN22	1.60	0.49
1:T8:329:GLN:O	1:T8:333:VAL:HG13	2.13	0.49
2:U3:301:MET:HE1	2:U3:307:PRO:HD3	1.95	0.49
1:U4:22:GLU:HG2	1:U4:81:TYR:HB2	1.94	0.49
1:U4:310:TYR:N	1:U4:340:TYR:O	2.37	0.49
1:V0:325:GLU:O	1:V0:329:GLN:HG2	2.12	0.49
1:V2:325:GLU:O	1:V2:329:GLN:HG2	2.13	0.49
1:V4:232:VAL:HG13	1:V4:268:VAL:HG11	1.95	0.49
1:V6:2:ARG:HB2	1:V6:46:ARG:NH2	2.21	0.49
1:V6:330:MET:SD	1:V6:351:SER:HB3	2.52	0.49
2:V7:245:ASP:N	2:V7:245:ASP:OD1	2.46	0.49
2:W3:21:TRP:CZ3	2:W3:63:PRO:HB3	2.47	0.49
2:W3:311:LYS:HG2	2:W3:342:GLN:HG3	1.94	0.49
1:W6:5:VAL:HG12	1:W6:133:PHE:CD1	2.48	0.49
1:W6:273:LEU:H	1:W6:292:GLN:HE22	1.60	0.49
1:W6:375:GLN:HB3	1:W6:422:TYR:HD2	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W7:5:ILE:HD11	2:W7:135:PHE:CE1	2.47	0.49
1:X2:423:GLN:NE2	1:X2:426:GLN:OE1	2.44	0.49
1:Y0:165:LEU:HA	1:Y0:165:LEU:HD12	1.58	0.49
2:Y5:27:GLU:OE1	2:Y5:243:ARG:NH1	2.46	0.49
1:Y8:121:ARG:NH2	1:Y8:158:GLU:OE2	2.38	0.49
1:Z0:257:LEU:HD21	1:Z0:314:SER:HB2	1.93	0.49
2:Z3:208:ALA:O	2:Z3:212:ILE:HG12	2.13	0.49
2:Z5:115:VAL:HG23	2:Z5:153:LEU:HD22	1.95	0.49
1:Z6:294:TRP:CG	1:Z6:333:VAL:HG21	2.47	0.49
1:Z6:334:GLN:HE22	1:Z6:347:ASN:H	1.61	0.49
2:0B:89:PRO:HD2	2:0R:283:HIS:ND1	2.28	0.49
1:0C:5:VAL:HG23	1:0C:62:ARG:HG2	1.95	0.49
1:0C:21:TRP:CZ3	1:0C:61:PRO:HB3	2.48	0.49
1:0C:83:GLN:O	1:0S:281:TYR:OH	2.26	0.49
2:0F:198:THR:HG21	2:0F:201:ALA:HB2	1.95	0.49
2:0F:344:VAL:HB	2:0F:346:TRP:CE2	2.48	0.49
2:0H:208:ALA:O	2:0H:212:ILE:HG12	2.13	0.49
2:0J:32:PRO:HA	2:0J:86:LEU:HD12	1.94	0.49
1:0K:21:TRP:CH2	1:0K:61:PRO:HB3	2.48	0.49
1:0K:259:PRO:HG3	1:0K:311:LEU:HD21	1.94	0.49
1:0O:27:GLU:OE2	1:0O:358:PRO:HA	2.12	0.49
1:0O:379:LYS:HD3	1:0O:419:VAL:HG21	1.94	0.49
2:0X:406:HIS:HA	2:0X:409:VAL:HG22	1.95	0.49
2:1B:88:HIS:NE2	2:1R:283:HIS:HB3	2.27	0.49
2:1D:174:SER:HB3	2:1D:177:VAL:O	2.13	0.49
2:1D:223:THR:HG23	2:1D:225:THR:H	1.78	0.49
1:1G:3:GLU:OE1	1:1G:5:VAL:HG23	2.13	0.49
1:1K:109:GLY:HA2	1:1K:113:ILE:HG13	1.93	0.49
1:1K:210:ILE:O	1:1K:214:THR:OG1	2.30	0.49
2:1N:246:GLY:HA2	2:1N:357:TYR:CD2	2.48	0.49
1:1S:404:ASP:HB3	1:1S:406:MET:SD	2.53	0.49
2:1X:14:ILE:HD13	2:1X:69:ASP:OD2	2.11	0.49
2:1Z:316:CYS:HB3	2:1Z:378:ILE:HG23	1.94	0.49
1:2A:134:GLN:HE21	1:2A:167:PHE:HE2	1.59	0.49
1:2E:239:CYS:SG	1:2E:248:ALA:N	2.84	0.49
1:2G:68:LEU:HD23	1:2G:93:GLY:HA3	1.95	0.49
1:2G:78:SER:O	10:5B:135:ARG:NH2	2.37	0.49
2:2J:121:ARG:HG3	2:2J:121:ARG:HH11	1.78	0.49
1:2K:72:THR:O	1:2K:76:VAL:HG23	2.12	0.49
2:2L:156:ARG:HH22	38:8C:29:GLY:HA2	1.76	0.49
1:2M:177:ASP:O	2:2N:352:LYS:HA	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2N:81:GLY:O	2:2N:84:ARG:NH1	2.38	0.49
2:2P:317:LEU:HB3	2:2P:319:TYR:HE1	1.78	0.49
1:2Q:212:PHE:CZ	38:8A:117:TRP:HB3	2.48	0.49
1:2S:113:ILE:HA	1:2S:116:VAL:HG22	1.94	0.49
1:2S:175:VAL:HG23	2:2T:329:ASN:ND2	2.28	0.49
1:2Y:358:PRO:HG2	1:2Y:361:LEU:HD12	1.95	0.49
2:3H:115:VAL:HG11	2:3H:152:LEU:HD23	1.94	0.49
2:3L:8:HIS:CD2	2:3L:138:PHE:HD2	2.31	0.49
1:3O:175:VAL:HG22	2:3P:329:ASN:HD21	1.77	0.49
2:3R:5:ILE:HD11	2:3R:135:PHE:CE1	2.47	0.49
2:3T:167:LEU:HA	2:3T:200:VAL:HG23	1.95	0.49
5:4M:148:LEU:O	5:4M:152:ILE:HG12	2.13	0.49
6:4O:146:LYS:O	6:4O:149:SER:OG	2.26	0.49
6:4O:275:ALA:O	6:4O:279:LYS:HG3	2.13	0.49
6:4O:469:LEU:H	6:4O:469:LEU:HD23	1.78	0.49
8:4W:104:MET:N	8:4W:105:PRO:HD2	2.28	0.49
9:4Y:425:ALA:HB1	9:4Y:446:LEU:HD11	1.95	0.49
9:4Z:291:HIS:O	9:4Z:294:GLU:HG3	2.12	0.49
9:4Z:372:LEU:HD23	9:4Z:373:LYS:HD3	1.94	0.49
10:5B:120:GLU:HG2	10:5C:359:ARG:HH22	1.77	0.49
12:5F:24:TYR:HE1	12:5G:264:ARG:HD3	1.77	0.49
12:5F:39:PHE:HD2	12:5F:44:ILE:HD13	1.78	0.49
14:5L:340:ASN:OD1	14:5L:341:ASP:N	2.46	0.49
14:5L:519:HIS:ND1	14:5L:520:PRO:HD2	2.26	0.49
14:5M:127:ASN:OD1	14:5M:149:PHE:HA	2.12	0.49
14:5M:273:SER:O	14:5M:274:THR:OG1	2.28	0.49
14:5N:163:LEU:HD12	14:5N:171:MET:HE1	1.94	0.49
14:5N:207:GLU:HG3	14:5N:208:TYR:CD2	2.48	0.49
14:5N:482:ASP:HA	14:5N:498:LEU:HB3	1.95	0.49
14:5N:519:HIS:ND1	14:5N:520:PRO:HD2	2.26	0.49
15:5O:23:LYS:CB	15:5O:40:ILE:HD12	2.43	0.49
15:5O:294:PHE:CD2	15:5O:294:PHE:C	2.86	0.49
15:5O:373:PHE:C	15:5O:377:PRO:HG3	2.33	0.49
18:6A:13:ARG:NH1	18:6A:207:ASP:OD1	2.45	0.49
18:6C:13:ARG:NH1	18:6C:207:ASP:OD1	2.45	0.49
21:6H:44:ILE:HG22	21:6H:162:MET:HB3	1.94	0.49
22:6O:48:GLU:HA	22:6O:113:ARG:HE	1.78	0.49
22:6P:153:SER:O	22:6P:157:VAL:HG12	2.13	0.49
24:6T:536:ASP:OD1	24:6T:537:GLU:N	2.46	0.49
28:7H:361:TRP:HA	28:7H:361:TRP:CE3	2.48	0.49
30:7K:173:GLU:CD	30:7K:173:GLU:H	2.15	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:7N:78:HIS:N	31:7N:79:PRO:HD2	2.27	0.49
32:7P:136:HIS:CD2	32:7P:141:VAL:HG11	2.48	0.49
36:7W:24:ASN:N	36:7W:24:ASN:OD1	2.45	0.49
28:7X:319:ARG:HA	28:7X:329:ALA:HB2	1.94	0.49
2:6:285:GLN:HG2	2:S9:57:GLY:H	1.78	0.48
1:A1:423:GLN:HB3	3:4F:109:ALA:HB2	1.95	0.48
1:A3:40:SER:O	26:7F:25:TYR:CE2	2.64	0.48
2:C5:12:ALA:HB2	41:C5:501:GTP:C8	2.48	0.48
2:E9:12:ALA:HB2	41:F0:501:GTP:C8	2.47	0.48
2:E9:33:ASP:OD2	22:6N:131:ARG:NH1	2.45	0.48
2:F3:229:ARG:NH2	22:6P:119:ASP:O	2.46	0.48
2:H1:227:LEU:O	2:H1:231:ILE:HG12	2.13	0.48
1:H2:20:PHE:O	1:H2:24:VAL:HG23	2.12	0.48
2:H3:68:LEU:HA	2:H3:93:ILE:O	2.13	0.48
1:H6:276:ARG:NH1	24:6V:489:ASN:C	2.66	0.48
2:I1:183:GLU:HG3	2:I1:184:PRO:HD3	1.95	0.48
2:I5:69:ASP:OD2	2:I5:71:GLU:N	2.46	0.48
2:I7:312:TYR:HB2	2:I7:343:PHE:HD1	1.78	0.48
2:I9:155:GLU:HB2	2:I9:197:HIS:CE1	2.48	0.48
2:J3:254:GLU:N	2:J3:254:GLU:OE1	2.46	0.48
2:J7:31:GLN:HE21	2:J7:37:PRO:HG3	1.78	0.48
2:K1:88:HIS:HB3	2:L7:283:HIS:ND1	2.28	0.48
2:K1:185:TYR:CE1	2:K1:398:MET:HG3	2.48	0.48
1:K6:334:GLN:HE22	1:K6:348:ASN:H	1.61	0.48
1:K8:72:THR:O	1:K8:76:VAL:HG23	2.13	0.48
2:L5:363:VAL:HG23	2:L5:366:GLY:HA3	1.94	0.48
2:L9:312:TYR:HB2	2:L9:343:PHE:CD1	2.47	0.48
1:M0:178:THR:HG22	1:M0:181:GLU:HG3	1.95	0.48
2:M3:331:SER:O	2:M3:334:THR:OG1	2.21	0.48
2:M5:121:ARG:HD3	2:M5:121:ARG:O	2.13	0.48
2:N3:103:PHE:CD2	2:N3:189:LEU:HB3	2.48	0.48
2:N7:2:ARG:NH2	27:7G:162:LYS:HB3	2.27	0.48
2:N9:53:PHE:HB3	2:N9:61:HIS:HB3	1.95	0.48
2:N9:174:SER:OG	2:N9:207:GLU:OE1	2.30	0.48
2:O3:177:VAL:HG23	1:O4:327:ASP:CG	2.32	0.48
2:Q3:4:VAL:HG23	2:Q3:134:GLY:O	2.12	0.48
1:Q4:304:ASP:OD2	1:Q4:306:ARG:NH1	2.46	0.48
1:Q6:114:ASP:OD1	1:Q6:115:SER:N	2.44	0.48
1:Q6:288:GLU:OE2	1:Q6:291:GLN:NE2	2.46	0.48
1:R4:74:ASP:OD2	19:6E:252:THR:HA	2.13	0.48
1:R6:418:LEU:O	1:R6:421:GLU:HG2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R7:291:ILE:HD12	2:R7:375:VAL:HG23	1.95	0.48
2:R9:34:GLY:HA3	2:R9:60:LYS:HD3	1.95	0.48
1:S0:70:PRO:HG2	2:S1:2:ARG:NH2	2.27	0.48
1:S0:173:PRO:HA	1:S0:176:SER:HB2	1.93	0.48
1:S8:117:LEU:HA	1:S8:120:VAL:HG12	1.95	0.48
2:S9:174:SER:HA	2:S9:205:ASP:OD2	2.13	0.48
2:T1:371:VAL:HG22	2:T1:373:ARG:H	1.78	0.48
1:T2:5:VAL:HG22	1:T2:62:ARG:HD3	1.94	0.48
1:T4:108:GLU:N	1:T4:108:GLU:OE1	2.46	0.48
1:T6:74:ASP:C	1:T6:76:VAL:H	2.17	0.48
1:T6:386:THR:HB	13:5K:51:THR:HG21	1.95	0.48
1:T8:190:HIS:CD2	1:T8:414:ASN:HB2	2.47	0.48
2:U5:51:THR:HG21	2:U5:243:ARG:HG2	1.94	0.48
1:U8:67:ASP:N	1:U8:67:ASP:OD1	2.45	0.48
2:V1:69:ASP:OD1	2:V1:71:GLU:N	2.45	0.48
1:V2:5:VAL:HG12	1:V2:133:PHE:HD1	1.78	0.48
2:V3:14:ILE:HD11	2:V3:74:VAL:HG13	1.94	0.48
2:V7:90:GLU:HG3	2:V7:121:ARG:NH1	2.28	0.48
1:V8:208:TYR:CE1	1:V8:225:LEU:HD11	2.48	0.48
1:W0:248:ALA:HA	1:W0:252:LYS:HD2	1.95	0.48
2:W5:9:ILE:HD11	2:W5:153:LEU:HD23	1.95	0.48
2:W5:88:HIS:ND1	2:Y1:283:HIS:HB3	2.28	0.48
2:X9:214:ARG:HE	2:X9:215:ARG:HG2	1.78	0.48
1:Y0:204:ASN:HD21	39:Y0:502:GDP:HN22	1.60	0.48
1:Y8:1:MET:SD	1:Y8:2:ARG:NH1	2.86	0.48
1:Z0:86:ARG:HG2	1:Z0:88:ASP:H	1.77	0.48
2:Z1:387:ILE:HD12	2:Z1:390:ARG:HH22	1.77	0.48
2:Z3:5:ILE:HD13	2:Z3:125:LEU:HD23	1.95	0.48
2:Z5:433:GLU:OE1	2:Z5:433:GLU:HA	2.12	0.48
1:Z8:107:THR:OG1	1:Z8:401:GLU:OE2	2.24	0.48
1:Z8:113:ILE:HD13	1:Z8:150:LEU:HD22	1.95	0.48
2:Z9:246:GLY:HA3	2:Z9:356:ASN:HA	1.94	0.48
2:0B:206:ASN:OD1	41:0C:501:GTP:N2	2.40	0.48
2:0F:121:ARG:HD2	2:0F:124:LYS:HE3	1.95	0.48
2:0F:402:ARG:NH2	2:0F:415:GLU:OE2	2.45	0.48
1:0G:3:GLU:O	1:0G:131:GLN:N	2.44	0.48
1:0K:67:ASP:OD2	1:0K:72:THR:OG1	2.22	0.48
2:0N:333:ALA:O	2:0N:337:THR:HG23	2.13	0.48
1:0O:246:LEU:O	1:0O:352:SER:OG	2.25	0.48
1:0S:257:LEU:HA	1:0S:312:THR:HG21	1.95	0.48
1:0U:39:ASP:OD1	1:0U:39:ASP:N	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0W:310:TYR:N	1:0W:340:TYR:O	2.39	0.48
2:0X:7:ILE:HD12	2:0X:153:LEU:HD21	1.94	0.48
2:0X:333:ALA:O	2:0X:337:THR:HG23	2.12	0.48
1:0Y:114:ASP:N	1:0Y:114:ASP:OD1	2.44	0.48
2:0Z:14:ILE:HD11	2:0Z:74:VAL:HG13	1.96	0.48
1:1C:3:GLU:OE1	1:1C:62:ARG:NH1	2.42	0.48
2:1D:417:GLU:HA	2:1D:420:GLU:HG2	1.93	0.48
1:1K:178:THR:CG2	1:1K:181:GLU:HG3	2.43	0.48
1:1Q:7:ILE:HB	1:1Q:135:VAL:HG22	1.94	0.48
1:1Q:39:ASP:OD1	1:1Q:40:SER:N	2.45	0.48
2:1T:222:PRO:CD	1:1U:324:LYS:HE3	2.42	0.48
2:1V:202:VAL:HG22	2:1V:268:MET:HB2	1.95	0.48
2:1V:290:GLU:HA	2:1V:293:ASN:HD22	1.77	0.48
1:2A:211:CYS:SG	1:2A:220:PRO:HB3	2.53	0.48
1:2C:257:LEU:HA	1:2C:312:THR:HG21	1.93	0.48
1:2C:379:LYS:HG3	1:2C:419:VAL:HG21	1.95	0.48
2:2F:76:ASP:OD2	1:2G:46:ARG:NH2	2.46	0.48
2:2H:414:GLU:HG2	2:2H:416:GLY:H	1.77	0.48
2:2P:201:ALA:O	2:2P:268:MET:HE2	2.12	0.48
2:2R:387:ILE:HG12	2:2R:390:ARG:HH22	1.78	0.48
1:2S:3:GLU:HG3	1:2S:127:CYS:SG	2.53	0.48
2:2T:170:THR:HG21	2:2T:194:LEU:HD11	1.94	0.48
1:2U:396:HIS:HA	1:2U:399:THR:OG1	2.13	0.48
1:2Y:67:ASP:N	1:2Y:67:ASP:OD1	2.46	0.48
1:2Y:260:PHE:HB2	1:2Y:263:LEU:HD23	1.95	0.48
1:3G:34:GLY:HA3	1:3G:58:ARG:CD	2.43	0.48
2:3J:122:ILE:HD13	2:3J:125:LEU:HD12	1.95	0.48
2:3N:88:HIS:H	2:3N:91:GLN:NE2	2.11	0.48
2:3P:414:GLU:HG2	2:3P:416:GLY:H	1.78	0.48
1:3S:276:ARG:NH2	17:5V:219:LEU:HB3	2.28	0.48
6:4P:118:SER:HA	6:4P:121:GLU:OE1	2.12	0.48
10:5A:351:GLN:O	10:5A:355:GLU:HG2	2.13	0.48
10:5D:222:LYS:O	10:5D:225:GLU:HG3	2.13	0.48
14:5M:207:GLU:HG3	14:5M:208:TYR:CD2	2.48	0.48
14:5M:340:ASN:OD1	14:5M:341:ASP:N	2.46	0.48
14:5N:127:ASN:OD1	14:5N:149:PHE:HA	2.12	0.48
14:5N:340:ASN:OD1	14:5N:341:ASP:N	2.46	0.48
15:5O:31:GLU:OE1	15:5O:32:SER:N	2.46	0.48
15:5O:123:LEU:HD13	15:5O:161:MET:HB3	1.95	0.48
17:5V:137:PRO:HG2	17:5V:140:LEU:HG	1.93	0.48
18:5Y:13:ARG:NH1	18:5Y:207:ASP:OD1	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:6B:13:ARG:NH1	18:6B:207:ASP:OD1	2.45	0.48
22:6L:219:ASP:OD1	22:6L:222:SER:OG	2.21	0.48
22:6M:63:PRO:HA	22:6M:66:ASP:OD2	2.13	0.48
24:6U:242:PHE:O	24:6U:246:VAL:HG23	2.13	0.48
24:6V:132:VAL:HB	24:6V:148:ILE:HB	1.95	0.48
24:6V:434:ASP:OD1	24:6V:437:LYS:HB3	2.13	0.48
36:7V:24:ASN:N	36:7V:24:ASN:OD1	2.45	0.48
37:7Y:190:LYS:O	37:7Y:191:ARG:HB2	2.13	0.48
2:A2:29:GLY:CA	26:7F:45:MET:HE1	2.35	0.48
2:G7:189:LEU:HD11	2:G7:418:PHE:HE1	1.77	0.48
1:G8:207:LEU:HB3	1:G8:225:LEU:HD22	1.94	0.48
1:H4:67:ASP:N	1:H4:67:ASP:OD1	2.45	0.48
1:H6:237:THR:O	1:H6:237:THR:HG22	2.13	0.48
1:H6:246:LEU:HD22	1:H6:352:SER:HA	1.94	0.48
1:H8:199:CYS:HB2	1:H8:265:PHE:CD1	2.48	0.48
2:I1:108:TYR:O	2:I1:112:LYS:NZ	2.35	0.48
2:I3:183:GLU:HG3	2:I3:184:PRO:HD3	1.95	0.48
2:I5:192:HIS:HD2	2:I5:421:ALA:HA	1.78	0.48
2:I7:72:PRO:HG3	1:I8:1:MET:HG2	1.94	0.48
2:I7:76:ASP:HA	2:I7:79:ARG:HB2	1.94	0.48
2:J3:294:ALA:HA	2:J3:297:GLU:OE1	2.12	0.48
1:K0:67:ASP:HB3	1:K0:92:PHE:HE1	1.77	0.48
2:K1:203:MET:O	2:K1:204:LEU:HD23	2.13	0.48
1:M8:262:ARG:NH2	1:M8:417:ASP:OD1	2.46	0.48
2:M9:271:SER:OG	2:M9:301:MET:SD	2.71	0.48
1:N2:382:SER:HB2	1:N2:415:MET:HG2	1.95	0.48
2:N3:119:LEU:HD11	2:N3:160:ASP:OD2	2.12	0.48
2:N3:373:ARG:NH2	30:7L:280:GLN:O	2.39	0.48
1:N6:107:THR:OG1	1:N6:108:GLU:OE1	2.23	0.48
2:N7:12:ALA:HB2	41:N8:501:GTP:C8	2.48	0.48
2:N7:91:GLN:O	2:N7:92:LEU:HD23	2.12	0.48
1:N8:113:ILE:HA	1:N8:116:VAL:HG22	1.94	0.48
1:N8:179:VAL:H	2:N9:258:ASN:ND2	2.11	0.48
2:O1:137:VAL:HG22	2:O1:168:GLY:HA2	1.95	0.48
2:O3:384:ILE:HD12	2:O3:384:ILE:H	1.78	0.48
1:O8:67:ASP:N	1:O8:67:ASP:OD1	2.47	0.48
1:O8:184:ASN:OD1	1:O8:398:TYR:OH	2.29	0.48
1:P6:137:HIS:HE1	1:P6:139:LEU:HD21	1.78	0.48
2:Q3:174:SER:HB3	2:Q3:177:VAL:O	2.13	0.48
1:Q4:130:LEU:HB2	1:Q4:162:ARG:HE	1.78	0.48
1:R4:49:VAL:HG11	1:R4:241:ARG:HG2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R7:4:VAL:HG23	2:R7:134:GLY:O	2.13	0.48
2:S1:238:LEU:HD22	2:S1:378:ILE:HD11	1.96	0.48
2:S1:275:ILE:HG23	2:S1:368:LEU:HD21	1.95	0.48
2:S7:266:HIS:ND1	2:S7:266:HIS:O	2.46	0.48
1:T0:178:THR:OG1	1:T0:181:GLU:HG3	2.13	0.48
2:T1:65:CYS:O	2:T1:91:GLN:NE2	2.46	0.48
2:U1:216:SER:OG	2:U1:275:ILE:O	2.30	0.48
1:U2:167:PHE:CE2	1:U2:233:MET:HG2	2.49	0.48
1:U4:161:ASP:OD2	1:U4:162:ARG:NH1	2.46	0.48
2:U5:224:TYR:H	1:U6:245:GLN:NE2	2.11	0.48
1:U8:417:ASP:OD1	1:U8:418:LEU:N	2.46	0.48
1:V2:361:LEU:HD12	1:V2:362:LYS:H	1.77	0.48
2:V3:317:LEU:HB3	2:V3:319:TYR:HE1	1.77	0.48
1:V6:169:VAL:HG13	1:V6:203:ASP:HA	1.95	0.48
1:V6:173:PRO:HD2	1:V6:380:ARG:NH1	2.27	0.48
2:W9:102:ASN:HB3	2:W9:105:ARG:HG3	1.95	0.48
2:X3:280:LYS:HA	2:X3:283:HIS:HB3	1.95	0.48
1:X4:111:GLU:HG2	1:X4:112:LEU:HD22	1.94	0.48
2:Y9:336:LYS:O	2:Y9:339:ARG:NH2	2.45	0.48
2:Z1:225:THR:HG22	2:Z1:229:ARG:HE	1.78	0.48
2:Z1:239:THR:HG23	2:Z1:243:ARG:HH21	1.78	0.48
1:Z2:166:THR:OG1	1:Z2:199:CYS:SG	2.58	0.48
2:Z5:21:TRP:CZ2	2:Z5:65:CYS:HB2	2.48	0.48
2:Z9:262:TYR:CD2	2:Z9:265:ILE:HD12	2.48	0.48
1:0C:51:PHE:HB3	1:0C:59:TYR:HB3	1.95	0.48
2:0F:235:ILE:HD12	2:0F:238:LEU:HD11	1.95	0.48
2:0F:398:MET:HE1	1:0G:345:ILE:HG23	1.94	0.48
2:0J:212:ILE:O	2:0J:216:SER:OG	2.26	0.48
1:0M:244:GLY:HA3	1:0M:354:CYS:HA	1.95	0.48
1:0O:318:ARG:HA	1:0O:354:CYS:SG	2.53	0.48
2:0R:74:VAL:O	2:0R:78:VAL:HG23	2.14	0.48
2:0R:318:MET:HB2	2:0R:376:CYS:HB3	1.94	0.48
1:0S:66:MET:HB3	1:0S:147:MET:HE1	1.94	0.48
1:0W:317:PHE:HE2	1:0W:326:VAL:HG13	1.77	0.48
1:1A:175:VAL:HG13	2:1B:329:ASN:HD21	1.78	0.48
2:1B:386:GLU:OE1	2:1B:387:ILE:HG13	2.12	0.48
2:1H:99:ALA:HA	2:1H:105:ARG:HD3	1.94	0.48
1:1K:391:ARG:HD3	2:1L:346:TRP:NE1	2.28	0.48
2:1L:66:ILE:HD12	2:1L:68:LEU:HD23	1.96	0.48
1:1O:116:VAL:HA	1:1O:119:VAL:HG12	1.94	0.48
2:1R:9:ILE:HD13	2:1R:150:GLY:HA2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1R:71:GLU:HB3	2:1R:98:ASP:OD1	2.14	0.48
2:1V:115:VAL:HG22	2:1V:119:LEU:HD23	1.94	0.48
1:1W:50:TYR:CE2	1:1W:237:THR:HG21	2.48	0.48
2:1Z:241:SER:OG	2:1Z:250:VAL:N	2.45	0.48
1:2E:364:SER:OG	1:2E:365:ALA:N	2.43	0.48
2:2L:65:CYS:SG	2:2L:66:ILE:N	2.86	0.48
1:2W:99:ASN:ND2	2:2X:254:GLU:OE1	2.46	0.48
2:2X:119:LEU:HD11	2:2X:156:ARG:HD3	1.94	0.48
1:2Y:177:ASP:N	1:2Y:181:GLU:OE2	2.46	0.48
1:3A:265:PHE:HE2	1:3A:418:LEU:HD11	1.78	0.48
1:3C:35:THR:HG22	38:8D:161:GLN:OE1	2.13	0.48
1:3C:173:PRO:CD	1:3C:380:ARG:HE	2.26	0.48
1:3C:325:GLU:O	1:3C:329:GLN:HB2	2.13	0.48
2:3D:234:VAL:HG13	2:3D:376:CYS:SG	2.54	0.48
2:3D:246:GLY:HA3	2:3D:356:ASN:HA	1.95	0.48
1:3G:65:LEU:HD12	1:3G:90:PHE:CD1	2.48	0.48
1:3G:280:GLN:HG2	38:8A:162:VAL:HG13	1.94	0.48
2:3H:250:VAL:HB	2:3H:254:GLU:HG3	1.95	0.48
1:3I:217:LEU:HD22	38:8B:229:ASN:H	1.78	0.48
1:3K:263:LEU:HG	1:3K:422:TYR:HE1	1.77	0.48
2:3N:182:VAL:HG12	2:3N:185:TYR:HB2	1.95	0.48
1:3O:5:VAL:HG22	1:3O:133:PHE:CD1	2.47	0.48
1:3S:211:CYS:HG	1:3S:217:LEU:HB2	1.78	0.48
2:3T:132:LEU:HD23	2:3T:164:LYS:HE3	1.94	0.48
10:5A:406:LEU:HA	10:5A:409:ASN:HD21	1.77	0.48
12:5F:137:THR:HG23	12:5F:140:GLN:H	1.78	0.48
14:5L:174:TRP:CE2	14:5L:185:PRO:HB3	2.48	0.48
14:5L:218:VAL:O	14:5L:232:GLY:N	2.46	0.48
14:5M:415:LYS:HE2	23:6R:22:MET:SD	2.52	0.48
14:5M:507:LEU:HD11	14:5M:525:LEU:HD12	1.95	0.48
14:5N:492:SER:HB3	14:5N:508:PHE:CE1	2.47	0.48
18:5Y:5:VAL:HG13	18:5Y:62:GLU:HG2	1.95	0.48
19:6E:36:VAL:HG11	19:6E:40:LEU:HA	1.95	0.48
22:6O:23:TYR:HE2	22:6O:25:GLN:HA	1.78	0.48
24:6T:461:SER:OG	24:6T:464:ASP:OD2	2.29	0.48
24:6U:23:SER:HB3	24:6U:27:PHE:CZ	2.48	0.48
24:6U:132:VAL:HB	24:6U:148:ILE:HB	1.95	0.48
24:6V:280:ASP:HA	24:6V:289:ARG:HB2	1.95	0.48
24:6W:322:LEU:HD23	24:6W:323:LYS:O	2.13	0.48
24:6Y:127:ASP:OD2	24:6Y:127:ASP:N	2.47	0.48
24:6Z:97:ARG:H	24:6Z:188:THR:CG2	2.25	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:7G:189:GLU:N	27:7G:189:GLU:OE2	2.45	0.48
34:7R:212:GLU:OE1	35:7T:167:ARG:NH1	2.37	0.48
37:7Y:128:TYR:C	37:7Y:128:TYR:CD2	2.85	0.48
38:7Z:2:ASN:HB3	38:7Z:5:LYS:HB2	1.95	0.48
2:A2:18:ASN:O	26:7F:114:PRO:HB2	2.13	0.48
1:E2:33:THR:HG21	22:6J:262:TYR:HB2	1.95	0.48
1:G4:58:ARG:HD3	1:I0:280:GLN:HE22	1.79	0.48
2:G5:155:GLU:O	2:G5:159:VAL:HG23	2.13	0.48
2:G7:208:ALA:O	2:G7:212:ILE:HG12	2.13	0.48
2:H1:108:TYR:O	2:H1:112:LYS:NZ	2.34	0.48
1:H4:186:THR:HG22	1:H4:411:ALA:HB1	1.94	0.48
1:H6:72:THR:O	1:H6:76:VAL:HG23	2.12	0.48
1:I4:113:ILE:HD13	1:I4:150:LEU:HD22	1.95	0.48
2:I5:173:PRO:HB3	2:I5:183:GLU:OE1	2.12	0.48
2:J1:399:TYR:O	2:J1:402:ARG:NH1	2.46	0.48
1:J6:115:SER:HA	1:J6:118:ASP:OD1	2.12	0.48
2:K1:49:PHE:HB2	2:K1:53:PHE:HB2	1.95	0.48
2:K3:31:GLN:HE22	29:7I:247:GLY:HA3	1.78	0.48
2:K3:266:HIS:ND1	2:K3:266:HIS:O	2.45	0.48
2:K5:170:THR:HG21	2:K5:194:LEU:HD11	1.95	0.48
2:L1:277:SER:OG	2:L1:278:ALA:N	2.45	0.48
2:L5:53:PHE:HB3	2:L5:61:HIS:HB3	1.95	0.48
2:L7:71:GLU:N	2:L7:71:GLU:OE1	2.46	0.48
2:L7:230:LEU:O	2:L7:234:VAL:HG23	2.13	0.48
2:L7:320:ARG:O	2:L7:373:ARG:HA	2.12	0.48
2:M3:98:ASP:OD1	2:M3:99:ALA:N	2.45	0.48
1:M4:105:HIS:CD2	1:M4:150:LEU:HB2	2.48	0.48
2:M5:8:HIS:HE2	2:M5:17:GLY:HA3	1.79	0.48
2:M5:121:ARG:HD3	2:M5:121:ARG:C	2.33	0.48
1:N0:39:ASP:OD1	1:N0:39:ASP:N	2.46	0.48
1:N2:86:ARG:HD2	2:O9:283:HIS:CE1	2.48	0.48
2:N7:8:HIS:CD2	2:N7:138:PHE:HD2	2.31	0.48
2:N7:183:GLU:HG2	2:N7:184:PRO:HD3	1.96	0.48
1:O2:4:ILE:HB	1:O2:50:TYR:HE1	1.78	0.48
2:O7:21:TRP:CZ3	2:O7:63:PRO:HB3	2.47	0.48
1:O8:10:GLY:HA2	1:O8:143:THR:HG23	1.95	0.48
1:Q2:190:HIS:HD2	1:Q2:414:ASN:HB2	1.78	0.48
2:Q3:155:GLU:O	2:Q3:159:VAL:HG23	2.13	0.48
2:Q3:170:THR:HG21	2:Q3:194:LEU:HD11	1.95	0.48
1:Q4:139:LEU:HD12	1:Q4:170:VAL:HG12	1.93	0.48
1:Q8:100:ASN:HB3	1:Q8:103:LYS:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q8:293:MET:SD	1:Q8:367:PHE:HB2	2.53	0.48
1:R0:19:LYS:O	1:R0:23:VAL:HG13	2.14	0.48
2:R1:188:VAL:O	2:R1:191:THR:HG22	2.13	0.48
2:R1:259:LEU:HD11	2:R1:316:CYS:HB2	1.95	0.48
1:R2:309:ARG:NH1	1:R2:339:SER:O	2.46	0.48
1:R6:70:PRO:CD	1:R6:92:PHE:HZ	2.27	0.48
2:R9:27:GLU:CD	2:R9:243:ARG:HH12	2.17	0.48
1:S6:257:LEU:HD21	1:S6:314:SER:HB2	1.94	0.48
2:S9:207:GLU:OE2	13:5I:90:PRO:HG3	2.13	0.48
2:S9:305:CYS:HB3	2:S9:387:ILE:HD11	1.94	0.48
1:T0:183:TYR:HE2	1:T0:394:PHE:HB2	1.78	0.48
1:T6:108:GLU:HB3	1:T6:147:MET:HE1	1.95	0.48
2:V1:317:LEU:HB3	2:V1:319:TYR:HE1	1.77	0.48
1:W0:70:PRO:N	1:W0:92:PHE:HZ	2.11	0.48
1:W0:237:THR:HG23	1:W0:241:ARG:HE	1.78	0.48
2:W1:224:TYR:H	1:W2:245:GLN:NE2	2.11	0.48
1:W2:135:VAL:O	1:W2:166:THR:HA	2.13	0.48
2:W9:109:THR:HG22	2:W9:110:ILE:CD1	2.43	0.48
1:X0:49:VAL:HG11	1:X0:241:ARG:HG2	1.94	0.48
2:Y5:154:LEU:HD12	2:Y5:157:LEU:CD2	2.43	0.48
1:Y8:250:LEU:O	1:Y8:253:LEU:HG	2.12	0.48
2:Z1:251:ASP:OD1	2:Z1:252:ILE:HD12	2.14	0.48
1:Z2:207:LEU:HD13	1:Z2:225:LEU:HB3	1.94	0.48
1:Z4:8:GLN:HG3	1:Z4:17:GLY:HA3	1.94	0.48
1:Z4:174:LYS:HD3	1:Z4:205:GLU:OE2	2.14	0.48
1:Z8:69:GLU:HG2	1:Z8:72:THR:HG23	1.95	0.48
1:Z8:139:LEU:HG	1:Z8:168:SER:HB3	1.96	0.48
1:0A:334:GLN:HE22	1:0A:347:ASN:H	1.61	0.48
2:0F:320:ARG:O	2:0F:373:ARG:HA	2.13	0.48
1:0G:16:ILE:HD11	1:0G:136:CYS:HB3	1.95	0.48
1:0G:86:ARG:NH1	1:0G:89:ASN:OD1	2.47	0.48
1:0G:404:ASP:HB3	1:0G:406:MET:SD	2.53	0.48
2:0H:15:GLN:HB3	2:0H:228:ASN:ND2	2.28	0.48
1:0I:52:ASN:OD1	1:0I:62:ARG:NH2	2.45	0.48
1:0K:2:ARG:HB3	1:0K:131:GLN:HB2	1.95	0.48
1:0K:207:LEU:HD11	1:0K:229:ILE:HD11	1.94	0.48
1:0M:91:VAL:HG11	1:0M:116:VAL:HG12	1.95	0.48
1:0Q:8:GLN:NE2	1:0Q:14:ASN:HA	2.25	0.48
1:0S:248:ALA:HA	1:0S:252:LYS:HD2	1.93	0.48
1:1A:135:VAL:O	1:1A:166:THR:HA	2.13	0.48
1:1A:204:ASN:HD21	39:1A:503:GDP:N2	2.09	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1D:99:ALA:HA	2:1D:105:ARG:HD3	1.95	0.48
1:1O:58:ARG:HG2	1:2E:280:GLN:HE22	1.78	0.48
2:1P:88:HIS:HB3	2:2F:283:HIS:CG	2.48	0.48
2:1P:345:ASP:N	2:1P:345:ASP:OD1	2.45	0.48
1:1U:21:TRP:HA	1:1U:24:VAL:HG12	1.95	0.48
1:1U:396:HIS:HA	1:1U:399:THR:OG1	2.13	0.48
1:1W:68:LEU:HB3	1:1W:96:GLY:HA2	1.95	0.48
2:1Z:116:ASP:N	2:1Z:116:ASP:OD1	2.47	0.48
2:1Z:227:LEU:O	2:1Z:231:ILE:HG12	2.13	0.48
2:2B:9:ILE:HG13	2:2B:68:LEU:HD21	1.94	0.48
2:2B:129:CYS:SG	2:2B:130:THR:N	2.86	0.48
1:2E:121:ARG:HD2	38:8B:98:TYR:O	2.13	0.48
2:2F:201:ALA:O	2:2F:268:MET:HE1	2.13	0.48
2:2F:286:LEU:O	2:2F:373:ARG:NH1	2.47	0.48
1:2G:5:VAL:HG22	1:2G:133:PHE:HD1	1.78	0.48
1:2G:177:ASP:OD1	2:2H:248:LEU:HD11	2.13	0.48
2:2J:245:ASP:OD1	2:2J:245:ASP:N	2.45	0.48
2:2L:333:ALA:O	2:2L:337:THR:HG23	2.13	0.48
1:2M:244:GLY:HA2	1:2M:355:ASP:OD1	2.13	0.48
2:2N:56:THR:HB	2:2N:60:LYS:HB3	1.94	0.48
1:2Q:91:VAL:HG11	1:2Q:116:VAL:HG12	1.96	0.48
2:3B:183:GLU:HG3	2:3B:184:PRO:HD3	1.95	0.48
2:3B:282:TYR:HD2	2:3B:282:TYR:H	1.61	0.48
1:3I:118:ASP:OD1	1:3I:121:ARG:NH1	2.46	0.48
2:3J:88:HIS:HB3	2:3J:90:GLU:CD	2.34	0.48
2:3R:35:GLN:N	2:3R:35:GLN:OE1	2.46	0.48
2:3T:390:ARG:HG2	2:3T:394:LYS:NZ	2.28	0.48
4:4E:22:LEU:H	3:4F:258:ASP:CG	2.16	0.48
4:4E:115:LYS:HB3	4:4E:116:PRO:HD2	1.94	0.48
7:4U:240:SER:N	31:7N:8:ASP:OD1	2.45	0.48
8:4W:349:GLN:O	8:4W:353:GLU:HG2	2.13	0.48
9:4Z:25:ARG:HB3	14:5L:540:TYR:CD1	2.44	0.48
9:4Z:194:ARG:O	9:4Z:198:LEU:HG	2.13	0.48
10:5B:177:GLU:O	10:5B:180:GLU:HG3	2.13	0.48
14:5L:273:SER:O	14:5L:274:THR:OG1	2.28	0.48
14:5N:594:HIS:N	14:5N:620:PHE:HE2	2.01	0.48
15:5O:182:ASN:ND2	15:5O:185:ARG:HH21	2.11	0.48
17:5U:179:GLN:OE1	17:5U:179:GLN:HA	2.14	0.48
22:6L:159:GLU:CD	22:6L:159:GLU:H	2.15	0.48
22:6L:177:LEU:HD23	22:6L:177:LEU:HA	1.73	0.48
22:6N:23:TYR:HE2	22:6N:25:GLN:HA	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:6N:89:THR:HG22	22:6N:91:ILE:H	1.79	0.48
22:6O:159:GLU:H	22:6O:159:GLU:CD	2.16	0.48
22:6P:314:CYS:HA	22:6P:317:VAL:HG22	1.95	0.48
24:6T:480:ASN:HD21	24:6T:503:ILE:HD12	1.78	0.48
24:6T:505:LYS:HD2	24:6T:510:GLU:HB3	1.95	0.48
24:6V:126:GLU:HG2	24:6V:127:ASP:OD2	2.14	0.48
24:6X:513:THR:O	24:6X:517:LEU:HD11	2.14	0.48
24:6Z:152:ARG:HD3	24:6Z:160:PHE:CG	2.48	0.48
30:7L:272:LEU:HD13	30:7L:278:PHE:HE1	1.78	0.48
31:7N:53:ILE:O	31:7N:57:ILE:HG13	2.14	0.48
35:7U:124:GLN:O	35:7U:128:VAL:HG13	2.13	0.48
2:A2:29:GLY:CA	26:7F:45:MET:HE3	2.36	0.48
2:A2:370:LYS:HG3	24:6Y:88:TRP:HZ3	1.77	0.48
1:A3:282:ARG:C	1:T6:54:ALA:CB	2.81	0.48
1:G0:216:LYS:HB2	24:6V:422:ASN:ND2	2.28	0.48
1:G2:5:VAL:HG23	1:G2:62:ARG:HG2	1.95	0.48
2:G5:71:GLU:HG3	1:G6:2:ARG:HH12	1.78	0.48
2:G5:205:ASP:OD1	2:G5:207:GLU:HG2	2.14	0.48
1:G8:183:TYR:HA	1:G8:385:PHE:HE1	1.78	0.48
2:G9:422:ARG:HH12	2:G9:426:ALA:HB2	1.78	0.48
2:H1:71:GLU:HG2	2:H1:98:ASP:HB2	1.95	0.48
1:H2:190:HIS:NE2	1:H2:410:GLU:HG3	2.28	0.48
1:H6:177:ASP:O	2:H7:352:LYS:HA	2.12	0.48
2:I1:211:ASP:OD1	2:I1:214:ARG:NH2	2.47	0.48
1:I2:174:LYS:H	1:I2:174:LYS:HD2	1.78	0.48
2:I5:148:GLY:O	2:I5:151:SER:OG	2.21	0.48
2:J1:222:PRO:CD	1:J2:324:LYS:HE3	2.44	0.48
2:J1:234:VAL:HG13	2:J1:376:CYS:SG	2.53	0.48
1:J2:301:CYS:SG	1:J2:302:ALA:N	2.85	0.48
2:J3:340:THR:HG23	2:J3:341:ILE:HG23	1.95	0.48
1:J4:211:CYS:HA	1:J4:215:LEU:HB2	1.95	0.48
1:J6:121:ARG:NH2	1:J6:158:GLU:OE2	2.44	0.48
2:J7:413:MET:HB3	2:J7:417:GLU:OE2	2.14	0.48
1:J8:257:LEU:HD21	1:J8:314:SER:HB2	1.95	0.48
2:J9:60:LYS:HZ3	2:L5:282:TYR:HA	1.78	0.48
1:K0:21:TRP:CZ2	1:K0:63:ALA:HB2	2.49	0.48
2:K3:198:THR:HG21	2:K3:201:ALA:HB2	1.95	0.48
1:K4:31:ASP:OD1	1:K4:35:THR:N	2.35	0.48
1:K4:233:MET:O	1:K4:236:ILE:HG22	2.12	0.48
2:K5:286:LEU:O	2:K5:373:ARG:NH1	2.45	0.48
2:K7:187:SER:O	2:K7:191:THR:HG23	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K7:201:ALA:O	2:K7:268:MET:HE2	2.13	0.48
2:K9:90:GLU:HB3	2:K9:121:ARG:NH1	2.27	0.48
2:L1:312:TYR:HD1	2:L1:381:SER:HB2	1.78	0.48
1:L2:178:THR:HG23	1:L2:181:GLU:HG3	1.95	0.48
2:L5:51:THR:HG21	2:L5:243:ARG:HG2	1.94	0.48
1:L6:12:CYS:SG	1:L6:13:GLY:N	2.86	0.48
1:L6:130:LEU:HD21	1:L6:133:PHE:CE1	2.48	0.48
2:L7:70:LEU:HD22	2:L7:110:ILE:HD12	1.95	0.48
2:M1:326:LYS:HG3	2:M1:327:ASP:N	2.28	0.48
1:M2:183:TYR:OH	1:M2:388:MET:HB3	2.14	0.48
2:M3:60:LYS:HD3	1:O0:280:GLN:HB3	1.96	0.48
1:M4:173:PRO:HD3	1:M4:380:ARG:CZ	2.43	0.48
2:M7:88:HIS:HB2	1:O4:281:TYR:CE1	2.48	0.48
2:M9:11:GLN:NE2	1:N0:247:ASN:OD1	2.46	0.48
2:M9:14:ILE:HD11	2:M9:74:VAL:HG13	1.95	0.48
2:M9:39:ASP:OD2	32:7P:139:LYS:NZ	2.46	0.48
2:N1:76:ASP:HA	2:N1:79:ARG:HB2	1.94	0.48
1:N2:114:ASP:N	1:N2:114:ASP:OD1	2.45	0.48
2:N7:21:TRP:CZ3	2:N7:63:PRO:HB3	2.48	0.48
1:N8:122:LYS:O	1:N8:126:SER:OG	2.22	0.48
2:N9:8:HIS:CD2	2:N9:138:PHE:HD2	2.31	0.48
1:O0:181:GLU:HG2	1:O0:182:PRO:HD3	1.95	0.48
2:O5:121:ARG:HA	2:O5:121:ARG:HD3	1.59	0.48
1:O6:179:VAL:HB	2:O7:258:ASN:HD22	1.78	0.48
1:O6:273:LEU:H	1:O6:292:GLN:HE22	1.61	0.48
1:O6:393:ALA:CB	2:O7:346:TRP:CZ3	2.95	0.48
1:O8:114:ASP:OD2	1:O8:115:SER:N	2.46	0.48
2:P3:88:HIS:ND1	2:Q9:283:HIS:HB2	2.29	0.48
1:P8:54:ALA:HB3	1:P8:58:ARG:HB3	1.95	0.48
1:Q2:167:PHE:HE2	1:Q2:233:MET:HG3	1.79	0.48
2:Q5:223:THR:H	2:Q5:226:ASN:ND2	2.10	0.48
2:Q9:90:GLU:N	2:Q9:90:GLU:OE1	2.45	0.48
1:R0:87:PRO:HD3	1:S6:281:TYR:CD2	2.48	0.48
2:R3:12:ALA:O	2:R3:16:VAL:HG23	2.14	0.48
2:R5:6:SER:O	2:R5:65:CYS:HB2	2.14	0.48
1:R6:176:SER:HB3	2:R7:349:THR:OG1	2.14	0.48
2:S7:97:GLU:N	2:S7:97:GLU:OE2	2.46	0.48
2:T3:88:HIS:CD2	2:T3:91:GLN:HG3	2.47	0.48
2:T3:434:GLU:OE2	13:5J:67:LYS:NZ	2.46	0.48
2:U1:2:ARG:HA	2:U1:133:GLN:HE21	1.78	0.48
1:U4:286:VAL:HG12	1:U4:329:GLN:HG3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U5:379:SER:OG	2:U5:380:ASN:N	2.47	0.48
2:U9:66:ILE:O	2:U9:66:ILE:HG13	2.13	0.48
2:V7:358:GLN:NE2	2:V7:359:PRO:HD2	2.29	0.48
2:V9:274:PRO:HD3	2:V9:374:ALA:HA	1.94	0.48
2:W1:129:CYS:SG	2:W1:130:THR:N	2.86	0.48
2:W5:245:ASP:N	2:W5:245:ASP:OD1	2.44	0.48
1:X2:141:GLY:HA3	39:X2:501:GDP:PB	2.53	0.48
1:X6:130:LEU:HB2	1:X6:162:ARG:HE	1.79	0.48
2:X7:98:ASP:OD2	1:X8:252:LYS:HE2	2.13	0.48
1:X8:183:TYR:HE2	1:X8:394:PHE:HB2	1.78	0.48
1:Y0:164:MET:SD	1:Y0:196:ALA:HA	2.53	0.48
2:Y5:431:ASP:O	2:Y5:434:GLU:HG3	2.13	0.48
2:Y9:222:PRO:HD2	1:Z0:324:LYS:HE3	1.95	0.48
2:Z1:246:GLY:HA3	2:Z1:356:ASN:HA	1.94	0.48
1:Z2:177:ASP:O	2:Z3:352:LYS:HA	2.13	0.48
1:Z6:163:MET:HB3	1:Z6:250:LEU:HD22	1.96	0.48
1:Z8:52:ASN:OD1	1:Z8:62:ARG:NH2	2.46	0.48
1:Z8:267:MET:HG2	1:Z8:299:MET:SD	2.53	0.48
2:Z9:116:ASP:OD1	2:Z9:116:ASP:N	2.45	0.48
1:0E:100:ASN:H	1:0E:142:GLY:HA3	1.77	0.48
1:0E:260:PHE:HB2	1:0E:263:LEU:HD13	1.95	0.48
2:0F:81:GLY:O	2:0F:84:ARG:NH1	2.43	0.48
2:0H:7:ILE:HD11	2:0H:137:VAL:HG12	1.96	0.48
2:0H:298:PRO:HA	2:0H:301:MET:HG2	1.96	0.48
2:0J:88:HIS:HB3	2:0Z:283:HIS:CE1	2.49	0.48
2:0L:288:VAL:HG13	2:0L:319:TYR:HE2	1.78	0.48
2:0N:325:PRO:HA	2:0N:328:VAL:HG12	1.94	0.48
1:0Q:116:VAL:O	1:0Q:120:VAL:HG22	2.13	0.48
2:0R:271:SER:OG	2:0R:377:MET:HB3	2.14	0.48
1:0W:229:ILE:HG22	1:0W:233:MET:HE2	1.95	0.48
1:1A:202:LEU:HD13	1:1A:300:MET:HB3	1.95	0.48
2:1B:156:ARG:HA	2:1B:159:VAL:HG12	1.96	0.48
1:1E:21:TRP:HA	1:1E:24:VAL:HG12	1.95	0.48
2:1F:111:GLY:HA2	2:1F:114:ILE:HG22	1.96	0.48
2:1L:63:PRO:HB2	2:1L:65:CYS:SG	2.53	0.48
1:1M:273:LEU:H	1:1M:292:GLN:HE22	1.61	0.48
2:1N:55:GLU:HG3	2:1N:55:GLU:O	2.13	0.48
2:1N:269:LEU:HD11	2:1N:384:ILE:HG23	1.95	0.48
1:1Q:246:LEU:HD22	1:1Q:352:SER:HA	1.95	0.48
2:1T:266:HIS:ND1	2:1T:266:HIS:O	2.43	0.48
1:2A:176:SER:OG	2:2B:349:THR:HB	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2D:98:ASP:OD1	2:2D:99:ALA:N	2.46	0.48
2:2D:119:LEU:HD21	38:8A:27:HIS:CE1	2.49	0.48
2:2D:286:LEU:HD13	2:2D:371:VAL:HG13	1.96	0.48
1:2Q:263:LEU:HD13	1:2Q:422:TYR:CE1	2.46	0.48
1:2U:382:SER:HB2	1:2U:415:MET:HG2	1.95	0.48
2:2V:210:TYR:HB3	38:8B:67:PHE:HE2	1.79	0.48
1:2W:139:LEU:HD12	1:2W:170:VAL:HG12	1.95	0.48
2:2Z:394:LYS:HB2	1:3A:346:PRO:HG3	1.95	0.48
2:3B:205:ASP:OD1	2:3B:206:ASN:N	2.44	0.48
1:3C:116:VAL:HA	1:3C:119:VAL:HG12	1.95	0.48
2:3D:5:ILE:HG22	2:3D:64:ARG:HB3	1.94	0.48
2:3F:8:HIS:CD2	2:3F:138:PHE:HD2	2.30	0.48
2:3H:261:PRO:HG3	2:3H:313:MET:HE2	1.95	0.48
2:3J:156:ARG:HA	2:3J:159:VAL:HG12	1.96	0.48
1:3K:117:LEU:HD11	1:3K:154:LYS:HB3	1.95	0.48
2:3L:217:LEU:HB3	2:3L:219:ILE:HD12	1.95	0.48
2:3N:296:PHE:CE2	2:3N:335:ILE:HD13	2.43	0.48
1:3S:152:ILE:HD12	1:3S:164:MET:SD	2.53	0.48
2:3T:5:ILE:HD11	2:3T:135:PHE:CE1	2.48	0.48
4:3W:115:LYS:HB3	4:3W:116:PRO:HD2	1.94	0.48
4:4I:115:LYS:HB3	4:4I:116:PRO:HD2	1.94	0.48
6:4O:390:MET:SD	6:4O:391:LEU:N	2.86	0.48
6:4O:415:HIS:HA	6:4O:418:GLU:OE1	2.13	0.48
8:4W:221:GLU:O	8:4W:224:LEU:HG	2.14	0.48
10:5C:426:LEU:O	10:5C:429:LYS:HG3	2.13	0.48
12:5G:281:VAL:HG13	12:5G:286:SER:HA	1.96	0.48
14:5L:415:LYS:NZ	23:6Q:22:MET:HB2	2.28	0.48
14:5M:174:TRP:CE2	14:5M:185:PRO:HB3	2.48	0.48
14:5M:452:TRP:CZ3	14:5M:461:LEU:HB2	2.47	0.48
14:5N:174:TRP:CE2	14:5N:185:PRO:HB3	2.48	0.48
14:5N:273:SER:O	14:5N:274:THR:OG1	2.28	0.48
15:5O:95:LEU:HD13	15:5O:217:GLU:HB2	1.95	0.48
15:5O:172:TRP:HE1	15:5O:207:GLY:CA	2.27	0.48
15:5P:244:PRO:HA	15:5P:247:VAL:HG22	1.95	0.48
18:6B:5:VAL:CG1	18:6B:62:GLU:HG2	2.44	0.48
22:6J:263:SER:HB2	22:6J:265:ASP:OD1	2.13	0.48
22:6J:291:GLU:O	22:6J:295:LYS:HD3	2.13	0.48
22:6O:277:SER:OG	22:6O:281:LYS:NZ	2.34	0.48
24:6T:365:ASP:OD1	24:6T:365:ASP:N	2.42	0.48
24:6V:591:ASP:N	24:6V:591:ASP:OD1	2.47	0.48
24:6Y:111:MET:HG2	24:6Y:213:TYR:CE2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:7K:30:LYS:HD3	30:7K:31:LEU:O	2.13	0.48
30:7K:326:ASP:OD2	30:7K:329:ARG:NE	2.45	0.48
34:7S:188:ILE:HG13	35:7U:143:TYR:CE1	2.45	0.48
34:7S:255:LEU:HD11	35:7U:205:ALA:HB1	1.95	0.48
36:7V:38:GLU:HA	36:7V:41:GLU:OE1	2.13	0.48
38:8B:170:PHE:O	38:8B:172:GLY:N	2.46	0.48
38:8D:188:ARG:HG3	38:8D:189:ASP:N	2.28	0.48
1:G2:78:SER:HB2	24:6W:499:GLU:HG2	1.96	0.48
2:G5:399:TYR:O	2:G5:402:ARG:NH1	2.46	0.48
1:G6:216:LYS:HB3	24:6Y:422:ASN:OD1	2.13	0.48
1:G6:238:CYS:SG	1:G6:318:ARG:NE	2.85	0.48
1:G8:114:ASP:OD1	1:G8:114:ASP:N	2.46	0.48
2:G9:51:THR:HG23	2:G9:52:PHE:CD2	2.49	0.48
1:H2:139:LEU:HG	1:H2:168:SER:HB2	1.95	0.48
2:H3:264:ARG:NH2	2:H3:431:ASP:OD2	2.47	0.48
2:H9:116:ASP:OD1	2:H9:116:ASP:N	2.46	0.48
2:I3:141:VAL:HG13	2:I3:170:THR:HG21	1.95	0.48
2:J1:336:LYS:O	2:J1:339:ARG:NH2	2.46	0.48
1:J2:112:LEU:O	1:J2:116:VAL:HG13	2.13	0.48
2:J7:394:LYS:HB2	1:J8:346:PRO:HG3	1.94	0.48
1:J8:101:TRP:HE3	1:J8:403:MET:HE1	1.78	0.48
2:J9:5:ILE:HD11	2:J9:135:PHE:CE2	2.48	0.48
2:K1:84:ARG:HH12	28:7X:407:LYS:HB2	1.77	0.48
2:K3:305:CYS:HB3	2:K3:387:ILE:HD11	1.96	0.48
2:K9:187:SER:O	2:K9:191:THR:HG23	2.12	0.48
2:L3:244:PHE:HB2	2:L3:356:ASN:HD21	1.77	0.48
1:L4:8:GLN:OE1	1:L4:17:GLY:HA3	2.14	0.48
2:L5:156:ARG:HA	2:L5:159:VAL:HG22	1.96	0.48
2:L7:191:THR:O	2:L7:195:LEU:HG	2.14	0.48
1:M6:207:LEU:HB3	1:M6:225:LEU:HD22	1.96	0.48
2:M7:305:CYS:HB3	2:M7:387:ILE:HD11	1.96	0.48
2:N5:90:GLU:HB2	2:N5:121:ARG:HH22	1.77	0.48
1:N8:105:HIS:NE2	1:N8:150:LEU:HD13	2.29	0.48
2:O5:205:ASP:OD2	2:O5:206:ASN:N	2.45	0.48
2:O7:88:HIS:CD2	2:O7:90:GLU:H	2.31	0.48
2:P3:2:ARG:HA	2:P3:133:GLN:HE21	1.78	0.48
2:P3:182:VAL:HG22	1:P4:256:ASN:HD21	1.78	0.48
1:P4:204:ASN:HD21	39:P4:503:GDP:HN22	1.61	0.48
2:Q1:417:GLU:HA	2:Q1:420:GLU:HG2	1.96	0.48
1:Q2:177:ASP:O	2:Q3:352:LYS:HA	2.12	0.48
2:Q5:392:ASP:HB2	2:Q5:425:LEU:HD22	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q8:86:ARG:HG2	1:Q8:88:ASP:H	1.77	0.48
1:R2:210:ILE:O	1:R2:214:THR:OG1	2.25	0.48
2:R3:132:LEU:HD23	2:R3:164:LYS:HE2	1.95	0.48
2:R5:155:GLU:HG2	2:R5:197:HIS:CE1	2.48	0.48
1:S0:178:THR:HB	1:S0:181:GLU:HG3	1.94	0.48
1:S4:257:LEU:HD11	1:S4:314:SER:HB2	1.94	0.48
2:S7:301:MET:HE1	2:S7:307:PRO:HD3	1.96	0.48
1:S8:386:THR:HG21	13:5I:47:ARG:HD3	1.96	0.48
2:S9:102:ASN:HB3	2:S9:105:ARG:HB3	1.96	0.48
1:T2:134:GLN:HE21	1:T2:167:PHE:HE2	1.62	0.48
1:T4:405:GLU:HA	1:T4:408:PHE:HD2	1.78	0.48
2:T5:236:SER:OG	2:T5:243:ARG:NH2	2.46	0.48
2:U3:47:ASP:OD1	2:U3:48:ALA:N	2.46	0.48
1:U4:113:ILE:HD12	1:U4:150:LEU:HG	1.95	0.48
1:U4:117:LEU:HA	1:U4:120:VAL:HG12	1.95	0.48
1:U6:217:LEU:HD23	1:U6:276:ARG:HH22	1.77	0.48
1:U8:112:LEU:O	1:U8:116:VAL:HG13	2.13	0.48
2:U9:47:ASP:N	2:U9:47:ASP:OD1	2.45	0.48
1:V2:117:LEU:HA	1:V2:120:VAL:HG12	1.96	0.48
2:V7:179:THR:O	1:V8:350:LYS:HG2	2.13	0.48
1:V8:204:ASN:OD1	39:V8:502:GDP:O2'	2.31	0.48
2:W3:195:LEU:HD11	2:W3:428:LEU:HD12	1.95	0.48
1:W8:262:ARG:NH2	1:W8:417:ASP:OD1	2.46	0.48
1:X0:86:ARG:HB3	1:X0:89:ASN:OD1	2.13	0.48
1:X0:317:PHE:HB3	1:X0:321:MET:SD	2.54	0.48
1:X2:198:GLU:HB2	1:X2:266:PHE:CE2	2.48	0.48
2:X3:121:ARG:HE	2:X3:124:LYS:NZ	2.11	0.48
2:X3:251:ASP:H	2:X3:254:GLU:HG2	1.79	0.48
1:X4:86:ARG:HG2	1:X4:88:ASP:H	1.78	0.48
2:X7:205:ASP:OD2	2:X7:207:GLU:N	2.45	0.48
2:X9:60:LYS:HE2	2:Z5:282:TYR:CZ	2.49	0.48
2:X9:101:ASN:OD1	1:Y0:252:LYS:HG3	2.12	0.48
1:Y0:128:ASP:OD1	1:Y0:129:CYS:N	2.43	0.48
1:Y0:273:LEU:H	1:Y0:292:GLN:HE22	1.61	0.48
1:Y4:99:ASN:HD22	2:Y5:258:ASN:HD21	1.62	0.48
1:Y4:354:CYS:SG	1:Y4:355:ASP:N	2.86	0.48
1:Y8:268:VAL:HG12	1:Y8:368:ILE:HD13	1.96	0.48
1:Z4:274:THR:OG1	1:Z4:282:ARG:NH1	2.46	0.48
1:Z6:270:PHE:O	1:Z6:298:ASN:ND2	2.41	0.48
1:0A:139:LEU:HD21	1:0A:168:SER:HB2	1.95	0.48
1:0E:207:LEU:HD11	1:0E:229:ILE:HD11	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0E:332:ASN:HA	1:0E:335:ASN:HD21	1.79	0.48
2:0F:417:GLU:HA	2:0F:420:GLU:HG2	1.94	0.48
2:0J:222:PRO:HD2	1:0K:324:LYS:HE3	1.94	0.48
1:0M:52:ASN:OD1	1:0M:62:ARG:NH2	2.46	0.48
2:0N:109:THR:HB	2:0N:110:ILE:HD12	1.95	0.48
2:0N:174:SER:HB2	2:0N:177:VAL:HB	1.95	0.48
2:0N:251:ASP:OD2	2:0N:253:THR:N	2.47	0.48
1:0O:62:ARG:HG3	1:0O:123:GLU:OE2	2.13	0.48
2:0R:33:ASP:O	2:0R:60:LYS:NZ	2.46	0.48
2:0R:34:GLY:HA2	2:0R:86:LEU:HD13	1.96	0.48
1:0S:21:TRP:HA	1:0S:24:VAL:HG12	1.95	0.48
2:0X:397:LEU:HD11	1:0Y:344:TRP:HA	1.95	0.48
1:0Y:72:THR:O	1:0Y:75:SER:OG	2.27	0.48
2:1B:220:GLU:HG2	2:1B:221:ARG:HG3	1.95	0.48
2:1D:90:GLU:HB3	2:1D:121:ARG:NH1	2.28	0.48
2:1D:280:LYS:HA	2:1D:283:HIS:HB3	1.94	0.48
2:1D:346:TRP:CZ3	2:1D:347:CYS:HB2	2.49	0.48
2:1F:155:GLU:O	2:1F:159:VAL:HG23	2.12	0.48
2:1F:271:SER:HA	2:1F:302:MET:HG2	1.95	0.48
2:1H:103:PHE:HB3	2:1H:408:TYR:HE2	1.78	0.48
1:1K:128:ASP:OD1	1:1K:128:ASP:N	2.46	0.48
1:1M:285:THR:HG23	1:1M:287:PRO:HD2	1.95	0.48
1:1M:396:HIS:H	1:1M:396:HIS:CD2	2.31	0.48
1:1S:114:ASP:N	1:1S:114:ASP:OD1	2.46	0.48
2:2N:271:SER:OG	2:2N:377:MET:HB3	2.13	0.48
2:2R:90:GLU:HG3	2:2R:121:ARG:NH1	2.27	0.48
2:2R:242:LEU:HD11	2:2R:252:ILE:HG12	1.95	0.48
1:2W:336:LYS:HZ1	38:8B:55:ALA:HB2	1.76	0.48
2:2X:42:ILE:HD11	14:5M:139:ALA:HB1	1.95	0.48
2:2X:409:VAL:HA	2:2X:413:MET:O	2.13	0.48
1:2Y:306:ARG:HD3	38:8C:96:GLY:HA3	1.89	0.48
2:2Z:297:GLU:CG	38:8C:74:ILE:CG2	2.87	0.48
1:3A:190:HIS:HD2	1:3A:411:ALA:HA	1.78	0.48
1:3K:214:THR:HG23	1:3K:297:LYS:NZ	2.27	0.48
1:3K:282:ARG:HH21	1:3K:288:GLU:CD	2.17	0.48
2:3L:21:TRP:CZ3	2:3L:63:PRO:HB3	2.49	0.48
1:3Q:406:MET:O	1:3Q:410:GLU:HG2	2.13	0.48
2:3R:65:CYS:SG	2:3R:66:ILE:N	2.87	0.48
4:4A:115:LYS:HB3	4:4A:116:PRO:HD2	1.95	0.48
6:4O:484:VAL:O	6:4O:487:ILE:HG22	2.13	0.48
9:4Z:158:ARG:O	9:4Z:162:MET:HG3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:4Z:350:ALA:O	9:4Z:353:LEU:HG	2.13	0.48
10:5A:325:THR:O	10:5A:328:LEU:HG	2.13	0.48
10:5B:243:LEU:O	10:5B:246:ILE:HG22	2.13	0.48
14:5N:452:TRP:CZ3	14:5N:461:LEU:HB2	2.47	0.48
15:5O:56:LYS:N	15:5O:56:LYS:HD3	2.29	0.48
15:5O:181:SER:OG	15:5O:185:ARG:NH2	2.46	0.48
20:6F:73:GLN:HE22	20:6F:114:ASN:HB3	1.78	0.48
21:6G:14:LEU:HD13	21:6G:131:TYR:CE2	2.47	0.48
21:6H:107:GLY:HA3	21:6H:110:TRP:NE1	2.28	0.48
22:6O:31:TYR:O	22:6O:32:LYS:HG3	2.13	0.48
24:6W:88:TRP:HA	24:6W:126:GLU:HG3	1.96	0.48
24:6W:469:PHE:HB3	24:6W:484:GLU:CB	2.42	0.48
24:6X:365:ASP:OD1	24:6X:365:ASP:N	2.43	0.48
24:6X:473:TYR:CD2	24:6X:473:TYR:C	2.86	0.48
24:7A:185:ASP:O	24:7A:188:THR:OG1	2.28	0.48
27:7G:4:TYR:HD1	27:7G:6:HIS:H	1.61	0.48
28:7H:317:GLU:O	28:7H:321:MET:HG2	2.14	0.48
31:7M:56:HIS:O	31:7M:59:THR:HG22	2.12	0.48
35:7T:220:GLN:O	35:7T:224:GLU:HG2	2.13	0.48
1:1:337:ASN:HD21	3:3V:69:TYR:N	1.90	0.48
2:C5:43:GLY:H	24:6T:272:VAL:HG21	1.78	0.48
2:C9:100:ALA:N	41:C9:501:GTP:O3G	2.46	0.48
1:E2:320:ARG:NH2	22:6J:31:TYR:OH	2.47	0.48
1:E8:217:LEU:HB3	24:6X:312:ASN:OD1	2.12	0.48
2:G1:287:SER:OG	2:G1:288:VAL:N	2.47	0.48
1:G2:237:THR:HG22	1:G2:237:THR:O	2.14	0.48
2:G7:71:GLU:HG2	2:G7:73:THR:H	1.78	0.48
2:G7:353:CYS:SG	2:G7:354:GLY:N	2.86	0.48
2:H3:69:ASP:OD2	2:H3:70:LEU:N	2.45	0.48
2:H5:333:ALA:O	2:H5:337:THR:HG23	2.13	0.48
1:H8:218:THR:H	24:6W:489:ASN:HA	1.78	0.48
1:I8:50:TYR:CE2	1:I8:241:ARG:HD3	2.48	0.48
2:I9:76:ASP:HA	2:I9:79:ARG:HB2	1.94	0.48
2:J1:8:HIS:CD2	2:J1:138:PHE:HD2	2.31	0.48
2:J1:274:PRO:HB2	2:J1:276:ILE:HG12	1.96	0.48
1:J4:153:SER:OG	1:J4:195:ASN:OD1	2.29	0.48
1:J8:186:THR:HG22	1:J8:411:ALA:HB1	1.96	0.48
2:K1:318:MET:O	2:K1:375:VAL:HA	2.13	0.48
2:K9:90:GLU:HB3	2:K9:121:ARG:HH12	1.79	0.48
2:K9:201:ALA:O	2:K9:268:MET:HE2	2.13	0.48
2:L3:9:ILE:HG12	2:L3:68:LEU:HD21	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L3:223:THR:HG23	2:L3:225:THR:H	1.78	0.48
1:L6:320:ARG:HH12	29:7J:226:THR:HA	1.78	0.48
2:M1:236:SER:O	2:M1:243:ARG:NH2	2.47	0.48
1:M2:214:THR:HG23	1:M2:215:LEU:HD22	1.94	0.48
1:M4:396:HIS:H	1:M4:396:HIS:CD2	2.31	0.48
2:M5:55:GLU:HG2	37:7Y:226:VAL:HG11	1.95	0.48
1:M6:1:MET:CE	37:7Y:116:MET:HA	2.42	0.48
2:M9:90:GLU:HB2	1:O6:281:TYR:HE2	1.78	0.48
2:N3:121:ARG:HH11	2:N3:124:LYS:HG3	1.78	0.48
2:N3:213:CYS:HA	2:N3:217:LEU:HB2	1.95	0.48
2:N7:145:THR:OG1	41:N8:501:GTP:O1B	2.32	0.48
1:N8:219:THR:O	1:N8:219:THR:OG1	2.32	0.48
2:N9:9:ILE:HG22	2:N9:146:GLY:HA2	1.96	0.48
2:O5:70:LEU:HG	2:O5:145:THR:HG23	1.95	0.48
1:O6:130:LEU:HB2	1:O6:162:ARG:HE	1.78	0.48
2:P5:405:VAL:HG23	2:P5:418:PHE:HE2	1.78	0.48
2:P7:72:PRO:HD2	1:P8:2:ARG:NH1	2.27	0.48
2:P9:167:LEU:HD13	2:P9:200:VAL:HB	1.96	0.48
1:Q0:8:GLN:CD	1:Q0:17:GLY:HA3	2.34	0.48
1:Q0:49:VAL:HG11	1:Q0:241:ARG:HG2	1.96	0.48
2:Q1:72:PRO:HG3	1:Q2:1:MET:HG2	1.95	0.48
1:Q6:259:PRO:HG3	1:Q6:311:LEU:HD21	1.96	0.48
2:Q9:405:VAL:CG2	17:5S:112:VAL:HG11	2.42	0.48
1:R4:189:VAL:O	1:R4:193:VAL:HG13	2.14	0.48
2:R7:12:ALA:O	2:R7:16:VAL:HG23	2.14	0.48
1:R8:317:PHE:HB3	1:R8:321:MET:SD	2.54	0.48
2:R9:26:LEU:HD22	2:R9:363:VAL:HG12	1.96	0.48
2:S7:259:LEU:HD11	2:S7:316:CYS:HB2	1.96	0.48
1:S8:244:GLY:HA2	1:S8:355:ASP:OD1	2.14	0.48
2:T1:97:GLU:OE1	2:T1:97:GLU:N	2.46	0.48
1:T2:113:ILE:HA	1:T2:116:VAL:HG22	1.96	0.48
1:T6:375:GLN:HE22	1:T6:423:GLN:NE2	2.11	0.48
1:T8:14:ASN:HD21	1:T8:65:LEU:HB3	1.79	0.48
2:V1:27:GLU:OE1	2:V1:243:ARG:NH1	2.47	0.48
2:V1:27:GLU:HG2	2:V1:361:THR:HG21	1.95	0.48
1:V6:86:ARG:HG2	1:V6:88:ASP:H	1.78	0.48
2:V7:384:ILE:HA	2:V7:387:ILE:HD12	1.96	0.48
1:X2:294:TRP:HE1	1:X2:330:MET:HE1	1.79	0.48
2:X5:172:TYR:CE2	2:X5:203:MET:HG2	2.49	0.48
1:X6:263:LEU:HD21	1:X6:421:GLU:OE1	2.13	0.48
2:X7:239:THR:HG23	2:X7:243:ARG:HE	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X9:60:LYS:HE3	2:X9:88:HIS:NE2	2.28	0.48
1:Y6:260:PHE:HB2	1:Y6:263:LEU:HD23	1.96	0.48
1:Y8:101:TRP:HB2	1:Y8:184:ASN:OD1	2.12	0.48
2:Y9:34:GLY:HA3	2:Y9:60:LYS:NZ	2.28	0.48
2:Y9:157:LEU:HG	2:Y9:166:LYS:HD3	1.95	0.48
1:Z2:24:VAL:HG12	1:Z2:27:GLU:OE2	2.14	0.48
1:Z4:382:SER:O	1:Z4:386:THR:HG23	2.14	0.48
2:Z9:334:THR:HA	2:Z9:337:THR:HG22	1.96	0.48
1:0A:69:GLU:HG2	1:0A:72:THR:HG23	1.96	0.48
2:0B:312:TYR:HB2	2:0B:343:PHE:CD1	2.48	0.48
2:0F:30:ILE:HG12	2:0F:36:MET:HG2	1.96	0.48
1:0G:385:PHE:HZ	1:0G:408:PHE:HD1	1.62	0.48
2:0H:2:ARG:HA	2:0H:133:GLN:HE21	1.78	0.48
2:0H:90:GLU:H	2:0X:283:HIS:HE1	1.60	0.48
1:0O:284:LEU:HG	1:0O:362:LYS:HD3	1.96	0.48
1:0S:2:ARG:NE	1:0S:240:LEU:HD22	2.28	0.48
2:0X:203:MET:SD	2:0X:267:PHE:HB3	2.54	0.48
1:0Y:311:LEU:HD21	1:0Y:372:THR:HB	1.96	0.48
1:1C:396:HIS:H	1:1C:396:HIS:CD2	2.31	0.48
2:1F:387:ILE:HG12	2:1F:390:ARG:NH2	2.28	0.48
2:1L:50:ASN:O	2:1L:64:ARG:NH2	2.46	0.48
2:1N:65:CYS:SG	2:1N:66:ILE:N	2.86	0.48
1:1O:198:GLU:HB3	1:1O:258:ILE:HD11	1.95	0.48
2:1P:333:ALA:O	2:1P:337:THR:HG23	2.14	0.48
2:1R:88:HIS:HD2	2:1R:90:GLU:H	1.59	0.48
2:2B:276:ILE:CG2	2:2B:281:ALA:HB2	2.43	0.48
2:2B:387:ILE:HG12	2:2B:390:ARG:HH22	1.78	0.48
2:2D:118:ALA:O	2:2D:122:ILE:HG13	2.14	0.48
1:2E:117:LEU:HA	1:2E:120:VAL:HG12	1.96	0.48
1:2E:324:LYS:HA	1:2E:327:ASP:OD1	2.13	0.48
1:2G:207:LEU:HB3	1:2G:225:LEU:HD22	1.95	0.48
2:2L:47:ASP:OD1	2:2L:48:ALA:N	2.47	0.48
2:2N:49:PHE:HB2	2:2N:53:PHE:HD2	1.79	0.48
2:2N:102:ASN:ND2	2:2N:105:ARG:HB2	2.28	0.48
2:2P:47:ASP:N	2:2P:47:ASP:OD1	2.46	0.48
1:2Q:135:VAL:HG21	1:2Q:152:ILE:HD11	1.95	0.48
1:2Q:177:ASP:O	2:2R:352:LYS:HA	2.14	0.48
2:2T:298:PRO:HA	2:2T:301:MET:HG3	1.95	0.48
1:2Y:320:ARG:NH1	38:8C:197:THR:O	2.40	0.48
2:3D:119:LEU:HD11	2:3D:156:ARG:HB3	1.96	0.48
2:3D:211:ASP:OD2	38:8D:67:PHE:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3F:214:ARG:HA	2:3F:219:ILE:O	2.14	0.48
2:3F:320:ARG:NH2	2:3F:359:PRO:O	2.47	0.48
2:3N:21:TRP:CZ2	2:3N:65:CYS:HB3	2.49	0.48
1:3O:117:LEU:HD21	1:3O:121:ARG:HH22	1.79	0.48
10:5A:360:GLN:HA	10:5A:363:ARG:NH2	2.28	0.48
10:5B:313:GLU:O	10:5B:316:ARG:HG3	2.13	0.48
12:5F:316:GLN:HB2	12:7B:58:ARG:HD2	1.96	0.48
14:5L:36:SER:HA	14:5L:59:VAL:HG12	1.94	0.48
14:5L:452:TRP:CZ3	14:5L:461:LEU:HB2	2.47	0.48
14:5L:594:HIS:N	14:5L:620:PHE:HE2	2.01	0.48
14:5M:36:SER:HA	14:5M:59:VAL:HG12	1.94	0.48
14:5M:594:HIS:N	14:5M:620:PHE:HE2	2.01	0.48
14:5N:36:SER:HA	14:5N:59:VAL:HG12	1.94	0.48
15:5O:185:ARG:NH1	15:5O:197:GLY:O	2.42	0.48
15:5O:264:GLU:OE2	15:5O:314:ARG:HG3	2.13	0.48
15:5O:320:VAL:HG21	15:5O:362:PRO:HA	1.96	0.48
20:6F:131:GLU:H	20:6F:131:GLU:CD	2.16	0.48
20:6F:285:THR:HA	20:6F:288:TYR:CD2	2.48	0.48
22:6L:53:THR:O	22:6L:57:THR:OG1	2.31	0.48
22:6M:203:HIS:CD2	22:6M:204:PHE:H	2.32	0.48
22:6N:290:LEU:O	22:6N:294:LEU:HG	2.13	0.48
24:6U:540:LEU:HD13	24:6U:614:ARG:HD2	1.95	0.48
24:6V:415:THR:HG23	24:6V:418:ASP:H	1.78	0.48
24:6W:376:LYS:O	24:6W:380:LYS:HG3	2.14	0.48
24:6W:602:LEU:HG	24:6W:604:PHE:HD1	1.79	0.48
24:6X:450:VAL:CG1	24:6X:469:PHE:O	2.62	0.48
24:6Z:559:ILE:O	24:6Z:563:LYS:HG2	2.13	0.48
32:7O:70:THR:OG1	32:7O:72:GLU:HG3	2.14	0.48
34:7R:232:ASP:O	34:7R:236:THR:HG23	2.14	0.48
34:7S:149:LYS:HA	34:7S:152:VAL:HG12	1.95	0.48
35:7T:84:ALA:O	35:7T:87:ILE:HG22	2.13	0.48
38:8B:58:LYS:HD2	38:8B:58:LYS:H	1.79	0.48
38:8C:10:ALA:HA	38:8C:17:GLY:HA2	1.96	0.48
38:8D:83:ARG:HD2	38:8D:113:ARG:HD3	1.96	0.48
2:6:372:GLN:NE2	24:6V:88:TRP:CE2	2.80	0.48
1:B8:39:ASP:O	18:6B:119:ARG:NH1	2.46	0.48
1:E4:35:THR:HG21	22:6K:260:VAL:H	1.77	0.48
2:G5:47:ASP:OD1	2:G5:47:ASP:N	2.46	0.48
1:G6:72:THR:O	1:G6:76:VAL:HG13	2.14	0.48
1:G6:78:SER:OG	24:6Y:499:GLU:OE2	2.31	0.48
1:G8:66:MET:HE1	1:G8:147:MET:HG2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G8:313:ALA:HA	1:G8:369:GLY:HA2	1.94	0.48
1:H4:301:CYS:SG	1:H4:302:ALA:N	2.86	0.48
2:H9:264:ARG:NH2	2:H9:431:ASP:OD2	2.46	0.48
1:I0:386:THR:O	1:I0:390:ARG:HG3	2.13	0.48
1:I2:52:ASN:OD1	1:I2:62:ARG:NH2	2.42	0.48
1:I2:219:THR:HB	2:I3:324:VAL:HG11	1.95	0.48
1:I2:371:SER:OG	1:I2:372:THR:N	2.46	0.48
1:I4:52:ASN:OD1	1:I4:62:ARG:NH2	2.45	0.48
2:I5:188:VAL:HG23	2:I5:425:LEU:HD12	1.95	0.48
2:I9:9:ILE:HD13	2:I9:150:GLY:HA2	1.94	0.48
2:I9:9:ILE:HG12	2:I9:68:LEU:HD21	1.96	0.48
1:J2:60:VAL:HG23	1:J2:84:ILE:O	2.14	0.48
1:J2:86:ARG:HG2	1:J2:88:ASP:H	1.77	0.48
2:J3:109:THR:OG1	2:J3:411:GLU:OE2	2.21	0.48
1:J6:385:PHE:HE2	1:J6:412:GLU:HG3	1.79	0.48
2:J7:73:THR:HG23	1:J8:2:ARG:HH12	1.78	0.48
2:K5:15:GLN:HA	2:K5:18:ASN:HD21	1.79	0.48
2:K7:9:ILE:HG22	2:K7:146:GLY:HA2	1.95	0.48
1:K8:107:THR:OG1	1:K8:108:GLU:OE1	2.24	0.48
2:K9:66:ILE:HG13	2:K9:66:ILE:O	2.14	0.48
1:L0:70:PRO:N	1:L0:92:PHE:HZ	2.12	0.48
2:L3:90:GLU:HB3	2:L3:121:ARG:NH1	2.29	0.48
1:L6:345:ILE:HB	1:L6:348:ASN:HD21	1.79	0.48
2:L7:236:SER:O	2:L7:243:ARG:NH2	2.47	0.48
2:L9:241:SER:OG	2:L9:250:VAL:O	2.25	0.48
2:M1:223:THR:HG23	2:M1:225:THR:H	1.78	0.48
2:M7:183:GLU:HG3	2:M7:184:PRO:HD3	1.95	0.48
1:N2:204:ASN:OD1	39:N2:501:GDP:O2'	2.30	0.48
2:N3:103:PHE:CD1	2:N3:148:GLY:HA2	2.48	0.48
2:N3:277:SER:OG	2:N3:278:ALA:N	2.46	0.48
2:N7:276:ILE:HD11	2:N7:280:LYS:HB3	1.95	0.48
2:N7:327:ASP:N	2:N7:327:ASP:OD1	2.47	0.48
2:O3:214:ARG:CZ	37:7Y:84:ARG:HH22	2.27	0.48
2:O5:65:CYS:SG	2:O5:66:ILE:N	2.86	0.48
2:O5:286:LEU:HD13	2:O5:371:VAL:HG23	1.95	0.48
2:O7:313:MET:HE3	2:O7:346:TRP:CH2	2.48	0.48
2:P5:41:THR:CA	27:7G:220:MET:O	2.61	0.48
2:P5:313:MET:N	2:P5:380:ASN:O	2.43	0.48
1:P8:172:SER:OG	1:P8:205:GLU:OE1	2.20	0.48
1:Q0:45:GLU:HG3	1:Q0:46:ARG:HG2	1.96	0.48
1:Q0:292:GLN:HG2	1:Q0:298:ASN:HD22	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q3:306:ASP:OD2	2:V1:282:TYR:OH	2.22	0.48
1:Q6:309:ARG:H	1:Q6:372:THR:HG22	1.79	0.48
2:Q9:205:ASP:OD2	2:Q9:303:VAL:HG13	2.14	0.48
1:R0:87:PRO:HD3	1:S6:281:TYR:CE2	2.49	0.48
2:R1:175:PRO:HG2	2:R1:176:GLN:OE1	2.14	0.48
2:R3:207:GLU:HG3	2:R3:304:LYS:HD2	1.95	0.48
1:R8:272:PRO:HB2	1:R8:282:ARG:HH22	1.79	0.48
2:R9:220:GLU:HG2	2:R9:221:ARG:HG3	1.96	0.48
2:R9:277:SER:OG	2:R9:278:ALA:N	2.45	0.48
1:S0:405:GLU:OE1	1:S0:406:MET:HG2	2.13	0.48
1:S4:414:ASN:ND2	3:3V:84:LYS:HD2	2.29	0.48
1:S6:320:ARG:HH12	31:7M:29:GLU:HB3	1.78	0.48
2:S9:105:ARG:O	2:S9:109:THR:OG1	2.32	0.48
1:T0:244:GLY:HA2	1:T0:355:ASP:OD1	2.13	0.48
2:T3:7:ILE:HD11	2:T3:137:VAL:HG12	1.95	0.48
2:T3:379:SER:OG	2:T3:380:ASN:N	2.46	0.48
2:T7:317:LEU:HB3	2:T7:319:TYR:HE1	1.78	0.48
2:U1:217:LEU:HG	2:U1:275:ILE:HG22	1.96	0.48
1:U2:334:GLN:HE22	1:U2:348:ASN:H	1.60	0.48
2:U3:2:ARG:HA	2:U3:133:GLN:HE21	1.79	0.48
1:U6:218:THR:O	2:U7:326:LYS:HE2	2.14	0.48
2:V3:11:GLN:OE1	2:V3:15:GLN:NE2	2.46	0.48
2:W9:70:LEU:CD1	2:W9:110:ILE:HG21	2.44	0.48
2:W9:288:VAL:O	2:W9:292:THR:HG23	2.13	0.48
2:X3:52:PHE:CE2	2:X3:243:ARG:HD3	2.48	0.48
1:X4:22:GLU:OE1	1:X4:80:PRO:HG2	2.14	0.48
2:X5:217:LEU:HD21	2:X5:367:ASP:HB2	1.95	0.48
2:X7:265:ILE:HD11	2:X7:435:VAL:HG21	1.96	0.48
2:X9:102:ASN:HB3	2:X9:105:ARG:HB3	1.95	0.48
1:Y0:257:LEU:HA	1:Y0:312:THR:HG21	1.94	0.48
2:Y3:282:TYR:CE2	8:4W:373:ASN:CG	2.86	0.48
2:Y5:108:TYR:HA	2:Y5:112:LYS:NZ	2.29	0.48
2:Y5:253:THR:O	2:Y5:257:THR:HG23	2.14	0.48
2:Y9:223:THR:HG23	2:Y9:225:THR:H	1.78	0.48
2:Y9:286:LEU:HD11	2:Y9:372:GLN:HB2	1.94	0.48
1:Z2:122:LYS:O	1:Z2:126:SER:OG	2.18	0.48
1:Z2:205:GLU:HG2	1:Z2:206:ALA:N	2.29	0.48
1:Z4:74:ASP:OD1	1:Z4:75:SER:N	2.47	0.48
1:Z4:273:LEU:H	1:Z4:292:GLN:HE22	1.62	0.48
2:Z9:4:VAL:HG12	2:Z9:133:GLN:HB2	1.95	0.48
2:Z9:34:GLY:HA3	2:Z9:60:LYS:NZ	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z9:269:LEU:N	2:Z9:379:SER:O	2.47	0.48
1:0A:49:VAL:HG21	1:0A:241:ARG:HG2	1.96	0.48
1:0A:242:PHE:HB2	1:0A:354:CYS:SG	2.54	0.48
1:0A:285:THR:HB	1:0A:287:PRO:HD2	1.95	0.48
1:0A:344:TRP:CE3	1:0A:345:ILE:HG13	2.48	0.48
2:0B:3:GLU:HG3	2:0B:51:THR:HA	1.95	0.48
2:0B:31:GLN:HE21	2:0B:37:PRO:HG3	1.78	0.48
2:0B:90:GLU:HB2	2:0B:121:ARG:HH22	1.78	0.48
2:0B:225:THR:HG22	2:0B:229:ARG:HE	1.78	0.48
2:0H:280:LYS:HA	2:0H:283:HIS:HB3	1.94	0.48
2:0L:75:VAL:HG21	2:0L:94:SER:HB2	1.95	0.48
2:0N:407:TRP:CG	1:0O:255:VAL:HG23	2.49	0.48
1:0S:153:SER:HA	1:0S:195:ASN:ND2	2.29	0.48
1:0U:406:MET:SD	1:0U:406:MET:N	2.86	0.48
2:0V:9:ILE:HG23	2:0V:68:LEU:HD11	1.95	0.48
2:0X:90:GLU:HG3	2:0X:121:ARG:NH1	2.28	0.48
1:1A:67:ASP:N	1:1A:67:ASP:OD1	2.45	0.48
2:1B:242:LEU:HD12	2:1B:252:ILE:HG13	1.94	0.48
1:1C:203:ASP:OD2	1:1C:204:ASN:N	2.47	0.48
1:1C:236:ILE:HG23	1:1C:237:THR:HG23	1.96	0.48
2:1F:169:PHE:CD1	2:1F:235:ILE:HD11	2.49	0.48
1:1O:5:VAL:HG22	1:1O:133:PHE:HD1	1.79	0.48
2:1P:111:GLY:HA2	2:1P:114:ILE:HG22	1.95	0.48
2:1P:306:ASP:HB3	2:1P:309:HIS:CD2	2.48	0.48
2:1T:417:GLU:HA	2:1T:420:GLU:HG2	1.96	0.48
2:1V:121:ARG:CG	2:1V:121:ARG:NH1	2.56	0.48
1:2A:131:GLN:HE21	1:2A:250:LEU:HB2	1.78	0.48
1:2I:83:GLN:O	1:2Y:281:TYR:OH	2.24	0.48
1:2K:317:PHE:HB2	1:2K:353:VAL:HG22	1.96	0.48
2:2L:33:ASP:OD2	2:2L:35:GLN:NE2	2.47	0.48
2:2N:156:ARG:HA	2:2N:159:VAL:HG22	1.96	0.48
1:2S:309:ARG:H	1:2S:372:THR:HG22	1.79	0.48
2:2T:69:ASP:OD2	2:2T:71:GLU:N	2.46	0.48
2:2X:399:TYR:O	2:2X:402:ARG:NH1	2.46	0.48
1:3A:10:GLY:HA2	1:3A:143:THR:HG23	1.95	0.48
2:3B:91:GLN:O	2:3B:93:ILE:HG12	2.14	0.48
1:3C:274:THR:HG23	1:3C:279:GLN:HG2	1.95	0.48
1:3C:309:ARG:NH1	1:3C:339:SER:O	2.46	0.48
2:3D:267:PHE:HB2	2:3D:384:ILE:HD12	1.94	0.48
1:3I:218:THR:OG1	38:8B:227:LYS:HA	2.14	0.48
2:3J:72:PRO:HG2	1:3K:46:ARG:HH22	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3J:333:ALA:O	2:3J:337:THR:HG23	2.13	0.48
2:3R:132:LEU:HD23	2:3R:164:LYS:HE3	1.96	0.48
1:3S:67:ASP:N	1:3S:67:ASP:OD1	2.46	0.48
1:3S:111:GLU:HG3	3:4J:139:SER:HB2	1.95	0.48
4:4C:115:LYS:HB3	4:4C:116:PRO:HD2	1.94	0.48
6:4O:358:LYS:HB2	6:4O:362:ARG:HH21	1.78	0.48
7:4R:86:ALA:O	7:4R:90:GLN:HG2	2.14	0.48
9:4Z:297:ARG:HA	9:4Z:300:ARG:HD2	1.96	0.48
10:5C:406:LEU:O	10:5C:410:ARG:HG3	2.13	0.48
14:5M:166:ALA:HB3	14:5M:170:ASN:H	1.78	0.48
16:5Q:27:PHE:CD2	16:5Q:110:LEU:HD21	2.49	0.48
21:6H:56:LYS:HD3	21:6H:61:HIS:HB2	1.96	0.48
21:6H:106:ARG:HG3	24:6X:80:ASP:HB2	1.94	0.48
22:6M:314:CYS:HA	22:6M:317:VAL:HG12	1.95	0.48
24:6T:290:ARG:HG3	24:6T:291:PRO:HD2	1.95	0.48
24:6X:358:PHE:CE1	24:6X:367:TYR:HB2	2.49	0.48
30:7L:377:GLU:OE2	30:7L:377:GLU:N	2.44	0.48
34:7R:203:TYR:O	34:7R:207:GLU:HG2	2.14	0.48
36:7W:38:GLU:HA	36:7W:41:GLU:OE1	2.13	0.48
38:8A:8:GLU:O	38:8A:12:LEU:HB2	2.12	0.48
38:8D:108:PHE:HE1	38:8D:113:ARG:HH11	1.61	0.48
2:4:280:LYS:HZ2	26:7D:64:PRO:CG	2.04	0.48
1:B8:360:GLY:HA3	24:6Y:110:ASN:HA	1.95	0.48
2:F7:219:ILE:HG23	22:6J:175:ALA:HB1	1.96	0.48
1:G0:219:THR:N	24:6V:418:ASP:OD1	2.44	0.48
1:G4:292:GLN:HG2	1:G4:298:ASN:ND2	2.29	0.48
2:G5:74:VAL:O	2:G5:78:VAL:HG23	2.13	0.48
1:G6:199:CYS:HB2	1:G6:265:PHE:HD1	1.79	0.48
1:G8:49:VAL:HG11	1:G8:241:ARG:HG2	1.95	0.48
2:G9:227:LEU:O	2:G9:231:ILE:HG12	2.13	0.48
2:G9:266:HIS:O	2:G9:266:HIS:ND1	2.46	0.48
2:G9:364:PRO:O	22:6P:168:THR:HG21	2.14	0.48
2:H1:381:SER:OG	2:H1:382:THR:N	2.47	0.48
1:H8:135:VAL:HG21	1:H8:152:ILE:HD11	1.95	0.48
1:I2:156:ARG:NH1	1:I2:197:ASP:OD2	2.47	0.48
2:I7:274:PRO:HB2	2:I7:276:ILE:HG12	1.95	0.48
2:I7:370:LYS:NZ	5:4L:263:LEU:HD13	2.29	0.48
1:J2:145:SER:OG	1:J2:188:SER:OG	2.24	0.48
2:J9:3:GLU:HG3	2:J9:51:THR:HA	1.95	0.48
1:K8:244:GLY:H	1:K8:247:ASN:HD21	1.61	0.48
1:L2:233:MET:O	1:L2:237:THR:HG22	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L4:11:GLN:HB3	39:L4:502:GDP:O1A	2.14	0.48
1:L6:114:ASP:N	1:L6:114:ASP:OD2	2.44	0.48
2:L7:192:HIS:NE2	2:L7:424:ASP:OD2	2.46	0.48
2:L9:51:THR:HG21	2:L9:243:ARG:HG2	1.95	0.48
1:M2:371:SER:OG	1:M2:372:THR:N	2.46	0.48
2:M3:46:ASP:OD2	2:M3:46:ASP:N	2.38	0.48
2:M3:333:ALA:O	2:M3:337:THR:HG23	2.14	0.48
1:M4:273:LEU:H	1:M4:292:GLN:NE2	2.12	0.48
1:M4:304:ASP:OD1	1:M4:306:ARG:NH1	2.47	0.48
2:M9:313:MET:N	2:M9:380:ASN:O	2.33	0.48
2:N1:90:GLU:HG3	2:N1:121:ARG:HH12	1.77	0.48
1:N2:20:PHE:HA	1:N2:230:SER:HB2	1.96	0.48
2:N5:62:VAL:HG21	2:P3:283:HIS:O	2.13	0.48
1:O8:3:GLU:HG3	1:O8:127:CYS:HB2	1.96	0.48
1:O8:145:SER:HG	1:O8:188:SER:HG	1.56	0.48
2:P5:58:ALA:HB3	7:4R:31:LYS:HE3	1.94	0.48
1:P8:248:ALA:HA	1:P8:252:LYS:HD2	1.96	0.48
2:P9:377:MET:SD	2:P9:379:SER:OG	2.71	0.48
1:Q2:153:SER:O	1:Q2:157:GLU:HG2	2.14	0.48
2:Q3:425:LEU:O	2:Q3:429:GLU:HG2	2.14	0.48
2:Q5:90:GLU:CB	2:Q5:121:ARG:HH12	2.26	0.48
1:Q6:233:MET:O	1:Q6:236:ILE:HG22	2.14	0.48
1:Q8:414:ASN:HD21	17:5R:63:ALA:HA	1.79	0.48
1:R0:5:VAL:HG23	1:R0:62:ARG:HG2	1.95	0.48
1:R0:248:ALA:HA	1:R0:252:LYS:HD2	1.96	0.48
1:R6:226:ASN:OD1	39:R6:503:GDP:N1	2.34	0.48
1:S0:232:VAL:O	1:S0:236:ILE:HG12	2.13	0.48
1:S2:50:TYR:OH	1:S2:237:THR:HG21	2.14	0.48
1:S8:362:LYS:HE3	7:4T:303:GLN:NE2	2.27	0.48
1:S8:383:GLU:HG2	13:5I:47:ARG:HH12	1.79	0.48
2:S9:100:ALA:HA	1:T0:252:LYS:HE2	1.94	0.48
2:T3:306:ASP:HB3	2:T3:309:HIS:CD2	2.49	0.48
1:T6:183:TYR:HD2	1:T6:398:TYR:HE2	1.61	0.48
2:U5:332:VAL:O	2:U5:336:LYS:HG2	2.14	0.48
1:U6:317:PHE:HE2	1:U6:326:VAL:HG13	1.79	0.48
1:U8:175:VAL:O	1:U8:175:VAL:HG23	2.14	0.48
2:V3:72:PRO:HD2	1:V4:2:ARG:NH1	2.29	0.48
2:W1:88:HIS:ND1	2:X7:283:HIS:HB3	2.28	0.48
1:W2:282:ARG:NH2	1:W2:288:GLU:OE2	2.39	0.48
1:W6:3:GLU:HG3	1:W6:127:CYS:SG	2.53	0.48
2:W9:21:TRP:CZ3	2:W9:63:PRO:HB3	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X0:207:LEU:HD11	1:X0:229:ILE:HD11	1.95	0.48
1:X0:325:GLU:O	1:X0:329:GLN:HB2	2.14	0.48
1:X2:177:ASP:OD1	39:X2:501:GDP:H3'	2.13	0.48
1:X2:193:VAL:HG12	1:X2:265:PHE:HZ	1.79	0.48
2:X5:296:PHE:HZ	2:X5:351:PHE:HE1	1.60	0.48
2:X5:370:LYS:HD2	8:4W:154:ILE:HG21	1.96	0.48
2:X9:76:ASP:HA	2:X9:79:ARG:HB2	1.96	0.48
2:X9:100:ALA:HA	1:Y0:252:LYS:HE3	1.96	0.48
1:Y4:204:ASN:HD21	39:Y4:502:GDP:HN22	1.60	0.48
2:Y5:330:ALA:O	2:Y5:334:THR:HG23	2.13	0.48
1:Y6:49:VAL:HG11	1:Y6:241:ARG:HG2	1.96	0.48
1:Y8:405:GLU:HA	1:Y8:408:PHE:HD2	1.79	0.48
2:Z3:417:GLU:HA	2:Z3:420:GLU:HG2	1.96	0.48
1:Z6:266:PHE:CD1	1:Z6:370:ASN:HB2	2.48	0.48
1:Z6:266:PHE:CE1	1:Z6:370:ASN:HB2	2.49	0.48
1:Z6:345:ILE:O	1:Z6:348:ASN:ND2	2.47	0.48
2:Z7:90:GLU:HB2	2:Z7:121:ARG:HH22	1.79	0.48
2:Z9:312:TYR:HB2	2:Z9:343:PHE:CD1	2.49	0.48
1:0E:388:MET:SD	1:0E:393:ALA:HB3	2.54	0.48
2:0F:202:VAL:HG22	2:0F:268:MET:HB2	1.95	0.48
2:0H:60:LYS:NZ	2:0X:282:TYR:O	2.33	0.48
2:0H:205:ASP:OD2	2:0H:304:LYS:N	2.37	0.48
2:0V:278:ALA:HA	2:0V:369:ALA:HB2	1.95	0.48
1:0W:242:PHE:CD1	1:0W:356:ILE:HG13	2.48	0.48
2:0X:3:GLU:HB2	2:0X:129:CYS:SG	2.54	0.48
2:0X:116:ASP:N	2:0X:116:ASP:OD1	2.46	0.48
1:0Y:50:TYR:CE2	1:0Y:241:ARG:HD3	2.48	0.48
2:0Z:397:LEU:HD23	1:1A:346:PRO:HD3	1.95	0.48
2:1D:85:GLN:OE1	2:1D:85:GLN:HA	2.14	0.48
1:1M:101:TRP:HE3	1:1M:403:MET:HE1	1.78	0.48
2:1N:370:LYS:HB3	9:4Z:110:VAL:HG13	1.96	0.48
1:1Q:317:PHE:HB3	1:1Q:321:MET:SD	2.53	0.48
2:1R:317:LEU:HB3	2:1R:319:TYR:CE1	2.49	0.48
2:1T:11:GLN:NE2	1:1U:247:ASN:OD1	2.47	0.48
2:1T:129:CYS:SG	2:1T:130:THR:N	2.86	0.48
2:1T:298:PRO:HA	2:1T:301:MET:HG3	1.96	0.48
1:1W:48:ASN:N	1:1W:48:ASN:OD1	2.47	0.48
1:1W:121:ARG:O	1:1W:125:GLU:HG3	2.14	0.48
2:1Z:244:PHE:HB2	2:1Z:356:ASN:HD21	1.78	0.48
1:2A:72:THR:O	1:2A:76:VAL:HG23	2.13	0.48
1:2A:114:ASP:HB2	38:8A:101:ASP:CB	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2D:114:ILE:HG21	2:2D:149:LEU:HD22	1.96	0.48
2:2N:14:ILE:HD11	2:2N:74:VAL:HG22	1.95	0.48
1:2S:49:VAL:HG11	1:2S:241:ARG:HG2	1.95	0.48
2:2T:326:LYS:HG3	2:2T:327:ASP:H	1.79	0.48
1:2U:332:ASN:HD22	38:8A:1:MET:HA	1.78	0.48
2:2X:287:SER:OG	2:2X:290:GLU:OE1	2.24	0.48
2:2Z:102:ASN:HB3	2:2Z:105:ARG:HB3	1.95	0.48
1:3C:170:VAL:HG22	1:3C:202:LEU:O	2.13	0.48
2:3D:116:ASP:OD1	2:3D:116:ASP:N	2.47	0.48
2:3F:236:SER:OG	2:3F:243:ARG:NH2	2.47	0.48
1:3G:202:LEU:HD23	1:3G:229:ILE:HG12	1.95	0.48
1:3K:183:TYR:HE2	1:3K:394:PHE:HB2	1.78	0.48
1:3K:193:VAL:HG13	1:3K:194:GLU:HG3	1.95	0.48
1:3M:100:ASN:HB3	1:3M:103:LYS:HB2	1.96	0.48
4:4G:115:LYS:HB3	4:4G:116:PRO:HD2	1.94	0.48
5:4M:79:LYS:CE	15:5P:324:ARG:HH12	2.26	0.48
6:4O:34:ILE:HG13	6:4O:35:ALA:N	2.29	0.48
7:4R:17:LYS:HB3	27:7G:230:GLN:HG2	1.95	0.48
7:4U:98:ARG:HG2	21:6H:62:SER:HA	1.94	0.48
9:4Y:387:ARG:O	9:4Y:391:ILE:HG12	2.13	0.48
9:4Z:357:SER:O	9:4Z:360:THR:OG1	2.26	0.48
10:5A:298:ASP:O	10:5A:301:LEU:HG	2.14	0.48
14:5L:166:ALA:HB3	14:5L:170:ASN:H	1.78	0.48
14:5L:367:TRP:CZ3	14:5L:374:GLU:HB2	2.49	0.48
14:5M:367:TRP:CZ3	14:5M:374:GLU:HB2	2.49	0.48
14:5N:367:TRP:CZ3	14:5N:374:GLU:HB2	2.49	0.48
14:5N:558:ALA:HB3	14:5N:571:GLY:HA3	1.94	0.48
22:6J:168:THR:HA	22:6J:171:GLU:OE1	2.13	0.48
22:6L:220:ASP:OD1	22:6L:221:ASP:N	2.46	0.48
22:6N:146:LEU:HD12	22:6N:146:LEU:H	1.79	0.48
22:6O:209:ASN:O	22:6O:213:THR:HG23	2.12	0.48
24:6U:505:LYS:N	24:6U:510:GLU:O	2.45	0.48
24:6X:425:SER:OG	24:6X:427:VAL:O	2.29	0.48
26:7D:59:ARG:HB2	26:7D:59:ARG:CZ	2.44	0.48
38:8B:26:THR:O	38:8B:35:GLU:HG2	2.13	0.48
38:8D:171:ASP:OD1	38:8D:171:ASP:N	2.46	0.48
2:F3:27:GLU:HA	22:6O:91:ILE:HD11	1.95	0.48
2:F7:56:THR:HG21	2:H3:283:HIS:O	2.14	0.48
1:F8:78:SER:OG	24:6U:499:GLU:OE2	2.31	0.48
1:G6:378:PHE:HA	1:G6:381:VAL:HG12	1.96	0.48
2:G7:51:THR:HG21	2:G7:243:ARG:HG2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G7:101:ASN:OD1	1:G8:252:LYS:HE3	2.13	0.48
1:G8:117:LEU:HA	1:G8:120:VAL:HG12	1.94	0.48
2:G9:135:PHE:HD2	2:G9:166:LYS:HG2	1.78	0.48
2:G9:384:ILE:HD12	2:G9:387:ILE:HB	1.96	0.48
1:H6:23:VAL:HG21	1:H6:230:SER:OG	2.13	0.48
2:I5:170:THR:OG1	2:I5:203:MET:HG3	2.14	0.48
1:I8:95:THR:OG1	1:I8:96:GLY:N	2.47	0.48
1:J0:375:GLN:HB2	1:J0:419:VAL:HG13	1.96	0.48
2:J7:287:SER:OG	2:J7:288:VAL:N	2.46	0.48
1:J8:114:ASP:N	1:J8:114:ASP:OD1	2.47	0.48
2:J9:49:PHE:HE1	6:4O:475:ARG:NH1	2.12	0.48
2:J9:129:CYS:SG	2:J9:130:THR:N	2.87	0.48
1:K0:45:GLU:HG3	1:K0:46:ARG:HG2	1.96	0.48
1:K0:393:ALA:HB2	2:K1:346:TRP:HE3	1.78	0.48
2:K7:324:VAL:HG23	2:K7:326:LYS:H	1.79	0.48
1:K8:139:LEU:HD12	1:K8:170:VAL:HG22	1.95	0.48
1:L2:273:LEU:H	1:L2:292:GLN:HE22	1.60	0.48
1:L4:190:HIS:HD2	1:L4:411:ALA:HA	1.78	0.48
2:L7:208:ALA:HB1	2:L7:301:MET:O	2.14	0.48
1:M8:273:LEU:H	1:M8:292:GLN:NE2	2.12	0.48
2:N3:56:THR:HG21	2:N3:88:HIS:CE1	2.49	0.48
1:O2:355:ASP:OD1	37:7Y:236:THR:HG23	2.14	0.48
1:O4:145:SER:OG	1:O4:146:GLY:N	2.47	0.48
2:O5:114:ILE:HG21	2:O5:149:LEU:HD22	1.96	0.48
1:P8:170:VAL:HG21	1:P8:377:MET:SD	2.54	0.48
2:P9:22:GLU:OE1	2:P9:229:ARG:NH1	2.46	0.48
2:Q9:8:HIS:CD2	2:Q9:138:PHE:HD2	2.31	0.48
1:R0:139:LEU:HD12	1:R0:170:VAL:HG12	1.94	0.48
1:R2:237:THR:HG22	1:R2:250:LEU:HD21	1.96	0.48
2:R9:217:LEU:HD21	2:R9:368:LEU:HD23	1.96	0.48
1:S0:21:TRP:O	1:S0:25:SER:OG	2.30	0.48
2:S7:58:ALA:HB3	24:6U:86:PRO:HB3	1.95	0.48
1:S8:135:VAL:HG22	1:S8:137:HIS:HD2	1.79	0.48
1:T2:135:VAL:HG21	1:T2:152:ILE:HD11	1.95	0.48
2:T3:238:LEU:HD22	2:T3:378:ILE:HD11	1.96	0.48
2:T7:8:HIS:CD2	2:T7:138:PHE:HD2	2.31	0.48
1:U2:322:SER:HB3	1:U2:325:GLU:HB3	1.95	0.48
1:U8:191:GLN:HG3	1:U8:195:ASN:OD1	2.14	0.48
1:V4:285:THR:H	1:V4:288:GLU:CG	2.26	0.48
1:V6:139:LEU:HD12	1:V6:170:VAL:HG12	1.95	0.48
1:W0:3:GLU:HG3	1:W0:127:CYS:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W0:232:VAL:HG22	1:W0:270:PHE:HB2	1.96	0.48
2:W1:3:GLU:OE2	2:W1:50:ASN:ND2	2.47	0.48
1:X0:244:GLY:H	1:X0:247:ASN:HD21	1.61	0.48
1:X2:267:MET:HG3	1:X2:301:CYS:SG	2.53	0.48
2:X3:181:VAL:HG23	1:X4:256:ASN:HD22	1.78	0.48
2:X5:332:VAL:HA	2:X5:335:ILE:HG22	1.96	0.48
1:X6:311:LEU:CD1	1:X6:372:THR:HG23	2.44	0.48
1:X8:181:GLU:HG3	1:X8:182:PRO:CD	2.42	0.48
1:Y0:203:ASP:OD2	1:Y0:302:ALA:N	2.47	0.48
1:Y6:212:PHE:CE1	1:Y6:220:PRO:HG3	2.47	0.48
1:Y6:309:ARG:NH1	1:Y6:341:PHE:O	2.47	0.48
1:Y8:152:ILE:HD13	1:Y8:155:ILE:HD11	1.96	0.48
2:Z1:31:GLN:HB2	2:Z1:33:ASP:OD1	2.14	0.48
2:Z1:296:PHE:HE2	2:Z1:335:ILE:HG21	1.79	0.48
1:Z2:87:PRO:HA	1:Z2:90:PHE:CD2	2.49	0.48
2:Z5:21:TRP:CH2	2:Z5:63:PRO:HB3	2.49	0.48
2:Z5:192:HIS:HD2	2:Z5:421:ALA:HA	1.78	0.48
1:Z6:107:THR:OG1	1:Z6:401:GLU:OE2	2.24	0.48
1:Z6:404:ASP:HB2	1:Z6:406:MET:SD	2.53	0.48
2:Z9:286:LEU:O	2:Z9:373:ARG:NH1	2.47	0.48
1:0C:2:ARG:HE	1:0C:240:LEU:HD22	1.78	0.48
1:0C:113:ILE:HA	1:0C:116:VAL:HG22	1.96	0.48
1:0C:122:LYS:HD2	1:0S:292:GLN:HE22	1.76	0.48
1:0C:238:CYS:SG	1:0C:316:LEU:HD21	2.53	0.48
1:0M:139:LEU:HG	1:0M:168:SER:HB2	1.96	0.48
2:0N:398:MET:HG3	1:0O:346:PRO:HD2	1.96	0.48
2:0P:116:ASP:N	2:0P:116:ASP:OD1	2.45	0.48
1:0Q:135:VAL:HB	1:0Q:166:THR:HG22	1.95	0.48
2:0R:111:GLY:HA2	2:0R:114:ILE:HG22	1.96	0.48
1:0U:272:PRO:HB2	1:0U:282:ARG:HH12	1.78	0.48
1:0W:374:ILE:HD12	1:0W:378:PHE:HE2	1.78	0.48
1:0Y:27:GLU:OE1	1:0Y:241:ARG:NH1	2.39	0.48
1:1C:8:GLN:CD	1:1C:17:GLY:HA3	2.35	0.48
2:1F:305:CYS:HB3	2:1F:387:ILE:HD11	1.96	0.48
1:1G:31:ASP:OD2	1:1G:33:THR:OG1	2.32	0.48
2:1N:195:LEU:HD23	2:1N:196:GLU:HB3	1.96	0.48
2:1N:277:SER:H	2:1N:280:LYS:HB2	1.79	0.48
2:1R:318:MET:HB2	2:1R:376:CYS:HB3	1.95	0.48
1:2I:115:SER:HA	1:2I:118:ASP:OD1	2.14	0.48
1:2M:67:ASP:CG	1:2M:68:LEU:N	2.67	0.48
2:2N:155:GLU:O	2:2N:158:SER:OG	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2R:274:PRO:HB2	2:2R:276:ILE:HG12	1.95	0.48
1:2S:304:ASP:OD1	38:8A:46:ALA:HB2	2.14	0.48
2:2V:236:SER:OG	2:2V:243:ARG:NH2	2.47	0.48
1:2Y:2:ARG:HE	1:2Y:240:LEU:HD22	1.78	0.48
1:2Y:198:GLU:HB3	1:2Y:258:ILE:HD11	1.95	0.48
2:3B:331:SER:O	2:3B:334:THR:OG1	2.27	0.48
1:3G:219:THR:HB	2:3H:324:VAL:HG11	1.94	0.48
1:3O:11:GLN:NE2	2:3P:249:ASN:OD1	2.42	0.48
1:3O:172:SER:HB2	1:3O:380:ARG:NH2	2.29	0.48
2:3P:180:ALA:HA	1:3Q:350:LYS:HD2	1.96	0.48
2:3P:333:ALA:O	2:3P:337:THR:HG23	2.13	0.48
4:3Y:115:LYS:HB3	4:3Y:116:PRO:HD2	1.94	0.48
5:4L:309:ARG:HB2	5:4L:309:ARG:NH1	2.29	0.48
6:4P:167:ARG:HA	6:4P:170:ASN:ND2	2.28	0.48
8:4W:117:VAL:O	8:4W:120:SER:OG	2.23	0.48
8:4W:157:THR:O	8:4W:161:MET:HG2	2.14	0.48
12:5F:115:ARG:NH2	12:5F:116:ALA:O	2.46	0.48
14:5L:112:SER:N	14:5L:155:PHE:CD2	2.78	0.48
14:5N:166:ALA:HB3	14:5N:170:ASN:H	1.78	0.48
15:5O:96:ALA:HB3	15:5O:163:LEU:HD23	1.96	0.48
18:6C:61:LYS:HD2	18:6C:61:LYS:HA	1.73	0.48
22:6I:278:GLN:O	22:6I:282:LYS:HG2	2.14	0.48
22:6M:16:LYS:HG2	22:6M:20:TYR:CE2	2.49	0.48
24:6U:436:HIS:O	24:6U:440:ASN:ND2	2.47	0.48
24:6Z:111:MET:HB3	24:6Z:112:GLU:OE1	2.14	0.48
38:8B:73:TRP:CD1	38:8B:75:SER:HB2	2.44	0.48
1:5:41:ASP:N	26:7D:25:TYR:HE2	2.11	0.48
2:A2:42:ILE:HG21	26:7F:45:MET:O	2.12	0.48
2:A2:285:GLN:HB2	2:T5:56:THR:HA	1.96	0.48
1:A3:215:LEU:HD11	26:7F:136:PHE:HE2	1.70	0.48
1:B8:279:GLN:HE22	24:6Y:109:SER:HB2	1.78	0.48
1:D6:216:LYS:HG2	24:6Z:245:TYR:CZ	2.48	0.48
1:F2:217:LEU:HB3	24:6Z:312:ASN:OD1	2.12	0.48
2:G1:289:ALA:O	2:G1:293:ASN:ND2	2.46	0.48
1:G4:289:LEU:HD23	1:G4:365:ALA:HB2	1.96	0.48
1:G6:391:ARG:NH1	2:G7:346:TRP:HE1	2.11	0.48
2:G7:73:THR:O	2:G7:77:GLU:HG2	2.13	0.48
1:G8:216:LYS:C	24:6Z:422:ASN:HD21	2.16	0.48
2:G9:230:LEU:HD11	2:G9:275:ILE:HD11	1.96	0.48
2:H7:147:SER:OG	2:H7:190:SER:HB3	2.14	0.48
1:H8:404:ASP:HB3	1:H8:406:MET:SD	2.54	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I4:140:GLY:O	1:I4:184:ASN:ND2	2.45	0.48
1:I4:286:VAL:HB	1:I4:287:PRO:HD3	1.95	0.48
1:I8:175:VAL:HG23	1:I8:175:VAL:O	2.14	0.48
1:I8:373:ALA:O	1:I8:376:GLU:HG2	2.14	0.48
1:J0:95:THR:OG1	1:J0:96:GLY:N	2.47	0.48
2:J3:358:GLN:HE22	16:5Q:172:ARG:HG2	1.75	0.48
2:J5:306:ASP:HB3	2:J5:309:HIS:HD2	1.79	0.48
2:J7:34:GLY:HA3	2:J7:60:LYS:NZ	2.28	0.48
2:J7:384:ILE:HA	2:J7:387:ILE:HD12	1.96	0.48
2:J9:179:THR:O	1:K0:350:LYS:HD2	2.14	0.48
2:K3:330:ALA:O	2:K3:334:THR:HG23	2.14	0.48
1:K4:70:PRO:N	1:K4:92:PHE:HZ	2.12	0.48
2:K9:85:GLN:OE1	30:7K:134:HIS:CE1	2.63	0.48
2:L3:88:HIS:CE1	2:M9:284:GLU:HB3	2.49	0.48
1:L4:11:GLN:HE21	1:L4:15:GLN:HE22	1.61	0.48
2:L5:384:ILE:HA	2:L5:387:ILE:HD12	1.96	0.48
2:L7:383:ALA:HA	2:L7:386:GLU:OE1	2.14	0.48
2:M1:116:ASP:OD1	2:M1:116:ASP:N	2.45	0.48
1:M2:396:HIS:HA	1:M2:399:THR:HG22	1.96	0.48
2:M5:346:TRP:CH2	2:M5:435:VAL:HG13	2.49	0.48
1:M6:73:MET:HE3	1:M6:90:PHE:HB3	1.96	0.48
1:M8:418:LEU:HG	1:M8:422:TYR:HE2	1.79	0.48
1:N0:178:THR:OG1	1:N0:181:GLU:HG3	2.13	0.48
2:N3:3:GLU:HG3	2:N3:51:THR:HA	1.95	0.48
2:N5:70:LEU:HG	2:N5:145:THR:HG23	1.95	0.48
1:N6:86:ARG:HG2	1:N6:88:ASP:H	1.79	0.48
2:N7:264:ARG:HH21	2:U3:339:ARG:NH1	2.12	0.48
2:N7:392:ASP:OD2	2:N7:422:ARG:NH1	2.47	0.48
1:O8:236:ILE:HG23	1:O8:237:THR:HG23	1.94	0.48
2:O9:286:LEU:HD13	2:O9:371:VAL:HG23	1.96	0.48
2:P7:381:SER:OG	2:P7:382:THR:N	2.47	0.48
2:Q3:72:PRO:HD2	1:Q4:2:ARG:NH1	2.29	0.48
1:Q8:67:ASP:N	1:Q8:67:ASP:OD1	2.46	0.48
2:Q9:259:LEU:HD11	2:Q9:316:CYS:HB2	1.95	0.48
1:R6:244:GLY:HA2	1:R6:355:ASP:OD1	2.12	0.48
1:S0:309:ARG:NH1	1:S0:339:SER:O	2.46	0.48
2:S5:207:GLU:OE2	13:5H:90:PRO:HG3	2.14	0.48
2:S7:116:ASP:OD1	2:S7:117:LEU:N	2.46	0.48
1:T2:3:GLU:HG3	1:T2:127:CYS:HB2	1.96	0.48
1:T2:110:ALA:HB1	3:4D:75:ARG:NE	2.28	0.48
2:T5:132:LEU:HB3	2:T5:164:LYS:HE3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T5:174:SER:OG	2:T5:175:PRO:HD2	2.14	0.48
1:T6:213:ARG:NE	1:T6:297:LYS:HD2	2.29	0.48
2:U1:72:PRO:HG3	1:U2:1:MET:HG3	1.94	0.48
2:U1:272:TYR:HD2	2:U1:275:ILE:HG13	1.78	0.48
1:U2:173:PRO:HG2	1:U2:174:LYS:NZ	2.29	0.48
2:U3:90:GLU:HG3	2:U3:121:ARG:HH12	1.78	0.48
2:U3:317:LEU:HB3	2:U3:319:TYR:HE1	1.79	0.48
2:U5:137:VAL:HG22	2:U5:168:GLY:HA2	1.96	0.48
2:U9:2:ARG:HA	2:U9:133:GLN:HE21	1.79	0.48
2:V1:196:GLU:OE2	2:V1:197:HIS:NE2	2.47	0.48
2:V3:79:ARG:HG2	2:V3:92:LEU:HD13	1.95	0.48
2:V7:80:THR:OG1	8:4W:106:VAL:HG11	2.13	0.48
2:W3:189:LEU:HD11	2:W3:418:PHE:HE1	1.79	0.48
2:W5:145:THR:OG1	41:W5:501:GTP:O1B	2.31	0.48
2:W7:246:GLY:HA2	2:W7:357:TYR:CD2	2.49	0.48
2:W9:84:ARG:HB2	2:W9:84:ARG:CZ	2.43	0.48
2:W9:324:VAL:HG12	2:W9:326:LYS:HG2	1.96	0.48
1:X0:33:THR:HA	8:4W:471:SER:HB2	1.95	0.48
1:X2:181:GLU:OE2	2:X3:349:THR:HG21	2.13	0.48
1:X4:4:ILE:HB	1:X4:50:TYR:HE1	1.79	0.48
2:X7:166:LYS:N	2:X7:199:ASP:OD2	2.47	0.48
2:X7:286:LEU:HD11	2:X7:372:GLN:H	1.79	0.48
2:X9:287:SER:OG	2:X9:288:VAL:N	2.46	0.48
1:Y2:309:ARG:O	1:Y2:371:SER:OG	2.25	0.48
1:Y8:259:PRO:HG3	1:Y8:311:LEU:HD21	1.96	0.48
2:Y9:21:TRP:CH2	2:Y9:63:PRO:HB3	2.49	0.48
2:Y9:116:ASP:N	2:Y9:116:ASP:OD1	2.42	0.48
2:Z1:88:HIS:HB3	2:0H:283:HIS:ND1	2.29	0.48
2:Z1:338:LYS:HZ2	2:Z1:340:THR:N	2.12	0.48
1:Z2:2:ARG:HB2	1:Z2:240:LEU:HD11	1.95	0.48
1:Z2:51:PHE:HB3	1:Z2:59:TYR:HB3	1.96	0.48
2:Z3:241:SER:OG	2:Z3:318:MET:SD	2.72	0.48
1:Z4:115:SER:O	1:Z4:119:VAL:HG23	2.14	0.48
1:Z6:179:VAL:H	2:Z7:258:ASN:ND2	2.11	0.48
2:Z9:119:LEU:HA	2:Z9:122:ILE:HG22	1.96	0.48
2:0B:387:ILE:HD12	2:0B:390:ARG:HH22	1.79	0.48
2:0H:9:ILE:HD13	2:0H:150:GLY:HA2	1.95	0.48
2:0H:417:GLU:HA	2:0H:420:GLU:HG2	1.96	0.48
2:0J:15:GLN:HB3	2:0J:228:ASN:HD21	1.78	0.48
2:0L:30:ILE:HG12	2:0L:36:MET:HG2	1.96	0.48
2:0L:90:GLU:HB3	2:0L:121:ARG:HH22	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0N:116:ASP:N	2:0N:116:ASP:OD1	2.45	0.48
2:0N:417:GLU:HA	2:0N:420:GLU:HG2	1.96	0.48
1:0O:207:LEU:HB3	1:0O:225:LEU:HD22	1.94	0.48
1:0Q:388:MET:HG3	1:0Q:393:ALA:HB3	1.95	0.48
2:0R:2:ARG:HA	2:0R:133:GLN:HE21	1.79	0.48
1:0W:177:ASP:O	2:0X:352:LYS:HA	2.14	0.48
2:0X:205:ASP:OD1	2:0X:303:VAL:HG13	2.14	0.48
2:0Z:271:SER:HA	2:0Z:302:MET:HG2	1.95	0.48
2:0Z:274:PRO:HB2	2:0Z:276:ILE:HG12	1.96	0.48
2:1D:50:ASN:O	2:1D:64:ARG:NH2	2.47	0.48
2:1H:74:VAL:O	2:1H:78:VAL:HG23	2.13	0.48
1:1K:178:THR:HG23	1:1K:181:GLU:HG3	1.95	0.48
1:1O:145:SER:OG	1:1O:146:GLY:N	2.46	0.48
2:1T:278:ALA:HA	2:1T:369:ALA:HB2	1.96	0.48
1:1U:317:PHE:CE2	1:1U:326:VAL:HG13	2.49	0.48
1:1W:107:THR:OG1	1:1W:401:GLU:OE2	2.28	0.48
1:1W:273:LEU:H	1:1W:292:GLN:HE22	1.62	0.48
2:1X:63:PRO:HB2	2:1X:65:CYS:SG	2.54	0.48
2:1X:71:GLU:HG3	2:1X:73:THR:HG23	1.96	0.48
2:2B:5:ILE:HG22	2:2B:64:ARG:HB3	1.94	0.48
2:2D:290:GLU:HA	2:2D:293:ASN:HD22	1.79	0.48
1:2G:335:ASN:O	1:2G:338:SER:OG	2.32	0.48
2:2H:120:ASP:OD1	38:8B:24:TYR:CG	2.67	0.48
1:2I:173:PRO:HG2	1:2I:380:ARG:HH21	1.79	0.48
2:2J:413:MET:HB3	2:2J:417:GLU:OE1	2.13	0.48
1:2M:148:GLY:O	1:2M:152:ILE:HG12	2.13	0.48
1:2Q:391:ARG:HG3	2:2R:346:TRP:CE2	2.49	0.48
1:3C:12:CYS:SG	1:3C:13:GLY:N	2.87	0.48
1:3C:86:ARG:HG2	1:3C:88:ASP:H	1.77	0.48
2:3D:246:GLY:HA2	2:3D:357:TYR:HD2	1.79	0.48
2:3H:182:VAL:HG12	2:3H:185:TYR:HB2	1.95	0.48
1:3K:276:ARG:HH22	17:5T:216:GLU:HG2	1.79	0.48
2:3L:156:ARG:HA	2:3L:159:VAL:HG12	1.96	0.48
2:3N:333:ALA:O	2:3N:337:THR:HG23	2.14	0.48
2:3R:14:ILE:HD11	2:3R:74:VAL:HG22	1.96	0.48
2:3R:294:ALA:O	2:3R:300:SER:OG	2.31	0.48
1:3S:166:THR:OG1	1:3S:199:CYS:HB2	2.13	0.48
5:4L:474:TRP:NE1	5:4L:476:GLY:HA3	2.29	0.48
7:4U:10:ASN:HB3	7:4U:11:GLU:OE2	2.14	0.48
14:5L:495:LEU:HD13	14:5L:505:THR:HG23	1.96	0.48
15:5O:31:GLU:OE1	15:5O:32:SER:HB2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:5Q:131:THR:HA	16:5Q:134:VAL:HG12	1.95	0.48
18:5Z:61:LYS:HD2	18:5Z:61:LYS:HA	1.73	0.48
21:6G:73:VAL:HA	21:6G:78:ILE:HD11	1.95	0.48
22:6J:31:TYR:O	22:6J:32:LYS:HG3	2.14	0.48
22:6L:16:LYS:HG2	22:6L:20:TYR:CE2	2.49	0.48
22:6N:307:ARG:HH21	22:6N:326:PHE:HD2	1.60	0.48
22:6O:190:LEU:HG	22:6O:191:PHE:CD2	2.48	0.48
23:6Q:65:LEU:HD12	23:6Q:65:LEU:HA	1.79	0.48
24:6T:126:GLU:OE2	24:6T:127:ASP:HB2	2.14	0.48
24:6U:43:ASP:OD1	24:6U:43:ASP:N	2.46	0.48
24:6U:212:VAL:O	24:6U:216:THR:HG23	2.13	0.48
24:6V:569:LYS:O	24:6V:573:VAL:HG13	2.14	0.48
24:6W:142:ILE:HG13	24:6W:144:GLN:HG3	1.95	0.48
24:6W:274:ARG:NE	24:6W:372:ASP:OD2	2.41	0.48
24:6W:506:PRO:HB3	24:6W:524:GLU:OE1	2.12	0.48
24:6W:566:VAL:CG2	24:6W:573:VAL:HG11	2.44	0.48
24:6Y:371:ALA:HB1	24:6Y:375:THR:OG1	2.13	0.48
27:7G:113:ILE:HG21	27:7G:116:ASN:HD21	1.78	0.48
29:7J:129:SER:HB2	29:7J:137:VAL:CG2	2.43	0.48
29:7J:439:SER:O	29:7J:443:LEU:HG	2.13	0.48
30:7K:124:GLU:N	30:7K:125:PRO:HD3	2.29	0.48
30:7K:302:ASP:OD1	30:7K:303:GLU:N	2.47	0.48
31:7M:80:PRO:O	31:7M:83:THR:OG1	2.29	0.48
37:7Y:83:PRO:HA	37:7Y:86:ASN:OD1	2.14	0.48
37:7Y:177:ARG:HB2	37:7Y:177:ARG:NH1	2.27	0.48
38:8B:28:THR:O	38:8B:28:THR:OG1	2.30	0.48
2:4:280:LYS:HZ2	26:7D:64:PRO:CB	2.23	0.47
2:D7:58:ALA:HB1	22:6O:77:PRO:HB2	1.95	0.47
1:D8:11:GLN:N	39:D8:501:GDP:O2B	2.36	0.47
2:G1:399:TYR:O	2:G1:402:ARG:NH1	2.47	0.47
1:G4:219:THR:HB	2:G5:324:VAL:HG11	1.95	0.47
2:G5:75:VAL:HG11	2:G5:94:SER:HB2	1.95	0.47
1:G6:191:GLN:HG3	1:G6:195:ASN:OD1	2.13	0.47
2:H3:167:LEU:HD13	2:H3:200:VAL:HB	1.95	0.47
1:H6:77:ARG:HE	1:H6:90:PHE:HE2	1.62	0.47
1:H6:95:THR:OG1	1:H6:96:GLY:N	2.47	0.47
1:I0:173:PRO:HB3	1:I0:384:GLN:HE22	1.79	0.47
2:I1:324:VAL:HG21	2:I1:326:LYS:NZ	2.28	0.47
1:I2:218:THR:HG21	24:6Y:488:ARG:HA	1.95	0.47
1:I4:396:HIS:CE1	1:I4:397:TRP:CE2	3.02	0.47
2:I9:119:LEU:O	2:I9:122:ILE:HG22	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I9:165:SER:HA	2:I9:199:ASP:OD2	2.14	0.47
2:J1:223:THR:HG22	2:J1:224:TYR:N	2.29	0.47
2:J9:217:LEU:HB3	2:J9:219:ILE:HD12	1.96	0.47
2:K3:8:HIS:CD2	2:K3:138:PHE:HD2	2.32	0.47
1:K4:186:THR:HG22	1:K4:411:ALA:HB1	1.96	0.47
2:L5:76:ASP:OD1	1:L6:46:ARG:NH2	2.47	0.47
1:L6:362:LYS:HB2	6:4P:169:PHE:HE2	1.79	0.47
2:L7:383:ALA:O	2:L7:387:ILE:HG23	2.14	0.47
1:M0:375:GLN:HB2	1:M0:419:VAL:HG13	1.94	0.47
2:M1:21:TRP:CZ3	2:M1:63:PRO:HB3	2.49	0.47
1:M4:260:PHE:HB2	1:M4:263:LEU:HD23	1.94	0.47
1:N0:260:PHE:HB2	1:N0:263:LEU:HD23	1.96	0.47
2:N1:91:GLN:HE21	2:N1:125:LEU:HD21	1.79	0.47
2:N9:333:ALA:O	2:N9:337:THR:HG23	2.14	0.47
1:O2:101:TRP:HB2	1:O2:184:ASN:OD1	2.13	0.47
1:O2:391:ARG:HA	1:O2:391:ARG:HH21	1.79	0.47
2:O3:91:GLN:O	2:O3:92:LEU:HD23	2.14	0.47
2:O7:90:GLU:HG3	2:O7:121:ARG:HH11	1.79	0.47
2:O7:172:TYR:HE2	2:O7:203:MET:HE2	1.78	0.47
2:O9:90:GLU:N	2:O9:90:GLU:OE1	2.46	0.47
2:O9:264:ARG:NH2	2:O9:431:ASP:OD2	2.47	0.47
1:P4:3:GLU:HB2	1:P4:130:LEU:HD13	1.94	0.47
2:P7:33:ASP:N	2:P7:33:ASP:OD1	2.44	0.47
1:P8:5:VAL:HG23	1:P8:62:ARG:HG2	1.95	0.47
1:Q2:325:GLU:HA	1:Q2:328:GLU:HG2	1.96	0.47
2:Q3:313:MET:HE3	2:Q3:344:VAL:HG11	1.96	0.47
1:Q8:414:ASN:HA	1:Q8:417:ASP:OD2	2.14	0.47
2:Q9:413:MET:O	17:5S:117:PRO:HG3	2.14	0.47
2:R1:6:SER:O	2:R1:65:CYS:HB2	2.13	0.47
1:R2:172:SER:HB3	1:R2:175:VAL:HG22	1.95	0.47
2:R5:102:ASN:HB3	2:R5:105:ARG:HB3	1.96	0.47
2:R7:304:LYS:HA	2:R7:304:LYS:HD2	1.67	0.47
2:U3:137:VAL:HG22	2:U3:168:GLY:HA2	1.95	0.47
2:U3:286:LEU:HD11	2:U3:372:GLN:HB2	1.96	0.47
2:U3:333:ALA:O	2:U3:337:THR:HG23	2.14	0.47
1:U4:77:ARG:HE	1:U4:90:PHE:HE2	1.60	0.47
1:U6:317:PHE:CE2	1:U6:326:VAL:HG13	2.49	0.47
1:U8:107:THR:OG1	1:U8:401:GLU:OE2	2.22	0.47
1:V0:282:ARG:HH22	1:V0:284:LEU:HG	1.80	0.47
1:V0:361:LEU:HD12	1:V0:362:LYS:H	1.79	0.47
1:V2:221:THR:HG23	1:V2:223:GLY:H	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V9:301:MET:HE1	2:V9:307:PRO:HD3	1.96	0.47
1:W2:49:VAL:HG11	1:W2:241:ARG:HG2	1.96	0.47
2:W5:68:LEU:HA	2:W5:93:ILE:O	2.14	0.47
2:W5:301:MET:HE1	2:W5:307:PRO:HD3	1.95	0.47
2:W9:58:ALA:HB3	8:4W:421:THR:HG22	1.95	0.47
2:X3:207:GLU:HB3	2:X3:304:LYS:HG3	1.94	0.47
2:X3:356:ASN:OD1	2:X3:357:TYR:N	2.47	0.47
1:X4:203:ASP:HB2	1:X4:205:GLU:OE2	2.14	0.47
1:X4:257:LEU:HD23	1:X4:312:THR:HG23	1.96	0.47
2:X5:8:HIS:CE1	2:X5:21:TRP:HE1	2.31	0.47
1:X6:86:ARG:HG2	1:X6:88:ASP:H	1.78	0.47
1:Y0:187:LEU:O	1:Y0:191:GLN:HG2	2.14	0.47
1:Y8:67:ASP:N	1:Y8:67:ASP:OD1	2.47	0.47
1:Y8:317:PHE:HE2	1:Y8:326:VAL:HG13	1.78	0.47
1:Y8:396:HIS:CE1	1:Y8:397:TRP:CE2	3.02	0.47
1:Z0:116:VAL:O	1:Z0:120:VAL:HG22	2.14	0.47
1:Z0:151:LEU:O	1:Z0:155:ILE:HG12	2.13	0.47
2:Z1:72:PRO:HG3	1:Z2:1:MET:HG3	1.95	0.47
2:Z5:90:GLU:HG3	2:Z5:91:GLN:N	2.28	0.47
2:Z9:207:GLU:OE1	2:Z9:304:LYS:HD2	2.14	0.47
1:0A:114:ASP:OD1	1:0A:114:ASP:N	2.45	0.47
2:0B:32:PRO:HB3	2:0B:83:TYR:CE1	2.49	0.47
2:0B:275:ILE:HD12	2:0B:368:LEU:HD21	1.96	0.47
2:0H:290:GLU:HA	2:0H:293:ASN:HD22	1.79	0.47
1:0I:183:TYR:O	1:0I:187:LEU:HD13	2.13	0.47
2:0J:9:ILE:HD13	2:0J:137:VAL:HG23	1.96	0.47
2:0J:21:TRP:CZ2	2:0J:65:CYS:HB2	2.49	0.47
2:0J:115:VAL:HG21	2:0J:156:ARG:HD3	1.96	0.47
2:0J:320:ARG:HD3	2:0J:360:PRO:HG3	1.96	0.47
1:0K:301:CYS:SG	1:0K:302:ALA:N	2.87	0.47
2:0N:171:VAL:HG22	2:0N:204:LEU:HD11	1.96	0.47
2:0P:320:ARG:O	2:0P:373:ARG:HA	2.14	0.47
2:0R:246:GLY:HA3	2:0R:356:ASN:HA	1.96	0.47
2:0V:49:PHE:HD2	2:0V:53:PHE:HB2	1.79	0.47
2:0V:239:THR:HG23	2:0V:243:ARG:HE	1.77	0.47
1:0W:334:GLN:NE2	1:0W:348:ASN:H	2.09	0.47
1:0Y:310:TYR:N	1:0Y:340:TYR:O	2.39	0.47
1:1A:130:LEU:O	1:1A:162:ARG:HD2	2.14	0.47
1:1C:315:ALA:HB1	1:1C:317:PHE:CE1	2.49	0.47
2:1D:178:SER:HB2	2:1D:183:GLU:OE2	2.14	0.47
2:1D:407:TRP:CG	1:1E:255:VAL:HG23	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1F:4:VAL:HG13	2:1F:52:PHE:HE1	1.77	0.47
1:1G:169:VAL:HG11	1:1G:204:ASN:OD1	2.14	0.47
2:1H:399:TYR:OH	2:1H:415:GLU:OE1	2.22	0.47
1:1K:314:SER:HB3	1:1K:368:ILE:HG23	1.96	0.47
1:1K:404:ASP:HB3	1:1K:406:MET:SD	2.53	0.47
1:1Q:396:HIS:CD2	1:1Q:396:HIS:N	2.82	0.47
1:1S:95:THR:OG1	1:1S:96:GLY:N	2.47	0.47
2:1V:116:ASP:N	2:1V:116:ASP:OD1	2.47	0.47
2:1V:119:LEU:HA	2:1V:122:ILE:HG12	1.96	0.47
1:1W:114:ASP:N	1:1W:114:ASP:OD1	2.45	0.47
2:1Z:240:ALA:HB1	2:1Z:356:ASN:HD22	1.78	0.47
2:2F:47:ASP:OD1	2:2F:48:ALA:N	2.46	0.47
1:2I:55:THR:HG21	1:2Y:284:LEU:HD23	1.95	0.47
2:2L:175:PRO:HB3	2:2L:390:ARG:HE	1.79	0.47
2:2L:198:THR:HG21	2:2L:201:ALA:HB2	1.95	0.47
2:2L:276:ILE:HG21	2:2L:281:ALA:CB	2.43	0.47
2:2T:8:HIS:CD2	2:2T:138:PHE:HD2	2.32	0.47
1:2U:287:PRO:HA	1:2U:290:THR:HG22	1.96	0.47
1:2U:404:ASP:HB2	1:2U:406:MET:SD	2.54	0.47
2:2X:335:ILE:HG23	2:2X:341:ILE:HD11	1.95	0.47
2:2Z:214:ARG:HH21	38:8C:65:VAL:HB	1.79	0.47
2:3B:129:CYS:SG	2:3B:130:THR:N	2.87	0.47
2:3H:327:ASP:N	2:3H:327:ASP:OD1	2.47	0.47
1:3I:263:LEU:HD13	1:3I:422:TYR:HE1	1.79	0.47
1:3K:182:PRO:O	1:3K:186:THR:HG23	2.14	0.47
2:3P:220:GLU:HB3	23:6S:85:PHE:CE1	2.49	0.47
1:3Q:114:ASP:N	1:3Q:114:ASP:OD1	2.47	0.47
5:4M:293:LEU:HB3	28:7X:306:LEU:HD23	1.91	0.47
7:4T:233:MET:O	7:4T:237:ILE:HG12	2.14	0.47
10:5A:334:ARG:NH2	10:5A:337:ASP:OD1	2.39	0.47
10:5B:310:LEU:O	10:5B:314:LYS:HG2	2.14	0.47
14:5L:604:THR:HG22	14:5L:609:ARG:O	2.14	0.47
14:5N:528:ALA:HB1	14:5N:556:VAL:HG12	1.95	0.47
15:5O:7:TYR:CE2	15:5O:30:PRO:HG3	2.49	0.47
17:5S:31:THR:HB	17:5S:36:PHE:CE2	2.49	0.47
17:5U:31:THR:HB	17:5U:36:PHE:CE2	2.49	0.47
18:6D:61:LYS:HD2	18:6D:61:LYS:HA	1.73	0.47
21:6G:129:VAL:O	21:6G:133:VAL:HG23	2.14	0.47
22:6M:190:LEU:HG	22:6M:191:PHE:CD2	2.49	0.47
22:6P:20:TYR:CZ	22:6P:22:GLY:HA3	2.49	0.47
24:6T:482:ILE:HB	24:6T:498:LEU:HB3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:6T:512:TYR:CE1	24:6T:523:ILE:HG23	2.49	0.47
24:6V:92:ASP:OD2	24:6V:93:ARG:N	2.46	0.47
24:6V:558:LEU:HD13	24:6V:608:GLN:HB3	1.95	0.47
24:6X:505:LYS:N	24:6X:510:GLU:O	2.45	0.47
24:6X:518:TYR:CG	24:6X:521:ALA:HB2	2.49	0.47
24:6Y:335:ASN:OD1	24:6Y:337:THR:OG1	2.22	0.47
24:6Z:602:LEU:C	24:6Z:603:LYS:HD3	2.34	0.47
25:7C:110:ARG:HH12	30:7K:251:LYS:HD3	1.77	0.47
29:7I:44:GLU:O	29:7I:45:HIS:HB3	2.14	0.47
30:7L:350:ASN:ND2	30:7L:352:CYS:O	2.47	0.47
31:7M:66:HIS:CD2	31:7M:76:THR:HA	2.48	0.47
28:7X:349:ALA:O	28:7X:353:LEU:HG	2.13	0.47
2:2:282:TYR:HE1	24:6T:88:TRP:CZ2	2.32	0.47
2:A0:206:ASN:OD1	41:A1:501:GTP:N2	2.46	0.47
1:B5:276:ARG:O	24:6X:115:ARG:NH2	2.44	0.47
2:E7:62:VAL:HG21	2:G3:283:HIS:O	2.14	0.47
1:G4:183:TYR:CZ	1:G4:388:MET:HG2	2.49	0.47
2:H1:88:HIS:ND1	2:I7:283:HIS:HA	2.29	0.47
1:H4:153:SER:O	1:H4:157:GLU:HG2	2.14	0.47
1:H6:121:ARG:NH2	1:H6:158:GLU:OE2	2.41	0.47
2:H9:4:VAL:HG23	2:H9:134:GLY:O	2.14	0.47
2:H9:145:THR:OG1	41:I0:501:GTP:O1B	2.30	0.47
2:H9:326:LYS:HG3	2:H9:327:ASP:N	2.30	0.47
1:I0:219:THR:HG23	24:6X:488:ARG:HG2	1.96	0.47
2:I9:191:THR:HA	2:I9:194:LEU:HB3	1.95	0.47
1:J0:199:CYS:SG	1:J0:265:PHE:HD1	2.37	0.47
2:J5:156:ARG:HA	2:J5:159:VAL:HG22	1.96	0.47
1:J6:26:ASP:O	1:J6:359:LYS:NZ	2.33	0.47
1:K6:25:SER:HB2	1:K6:30:ILE:HG13	1.96	0.47
1:K6:125:GLU:OE2	1:K6:159:TYR:OH	2.28	0.47
1:K8:325:GLU:HA	1:K8:328:GLU:OE1	2.14	0.47
2:K9:90:GLU:HB3	2:K9:121:ARG:CZ	2.44	0.47
2:K9:176:GLN:HE22	2:K9:304:LYS:HE2	1.79	0.47
1:L0:8:GLN:OE1	1:L0:17:GLY:HA3	2.14	0.47
2:L7:224:TYR:HA	2:L7:227:LEU:HD22	1.95	0.47
2:M3:49:PHE:CE2	2:M3:61:HIS:HE1	2.31	0.47
2:M5:413:MET:HB3	2:M5:417:GLU:OE2	2.14	0.47
2:M9:119:LEU:HA	2:M9:122:ILE:HG22	1.96	0.47
1:N0:173:PRO:HD2	1:N0:380:ARG:CZ	2.44	0.47
2:N7:83:TYR:HB3	2:N7:86:LEU:HB3	1.96	0.47
1:N8:139:LEU:HD22	1:N8:170:VAL:HG12	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N8:204:ASN:ND2	39:N8:502:GDP:HN22	2.12	0.47
1:N8:350:LYS:HZ3	1:N8:351:SER:C	2.17	0.47
2:N9:306:ASP:HB3	2:N9:309:HIS:HD2	1.79	0.47
1:O2:108:GLU:N	1:O2:108:GLU:OE1	2.47	0.47
2:O3:32:PRO:HG3	19:6E:94:PRO:CD	2.44	0.47
1:O6:30:ILE:HD12	1:O6:59:TYR:HB2	1.95	0.47
2:O7:399:TYR:OH	2:O7:415:GLU:OE1	2.20	0.47
1:O8:245:GLN:CG	32:7P:64:THR:HG21	2.44	0.47
2:P7:175:PRO:HG2	2:P7:176:GLN:OE1	2.14	0.47
1:P8:128:ASP:N	1:P8:128:ASP:OD1	2.46	0.47
2:Q5:282:TYR:N	2:Q5:282:TYR:HD2	2.11	0.47
1:Q6:49:VAL:HG11	1:Q6:241:ARG:HG2	1.96	0.47
2:Q9:392:ASP:OD2	2:Q9:422:ARG:NH1	2.48	0.47
2:R1:47:ASP:OD1	2:R1:50:ASN:HB2	2.14	0.47
2:R3:76:ASP:O	2:R3:80:THR:HG22	2.14	0.47
1:R4:177:ASP:O	2:R5:352:LYS:HA	2.13	0.47
2:R7:325:PRO:HA	2:R7:328:VAL:HG12	1.95	0.47
1:R8:167:PHE:CZ	1:R8:233:MET:HG2	2.49	0.47
1:S0:36:TYR:CG	1:S0:44:LEU:HD21	2.49	0.47
1:S0:49:VAL:HG11	1:S0:241:ARG:HG2	1.96	0.47
1:S4:125:GLU:HB2	3:3V:65:SER:OG	2.15	0.47
2:S9:66:ILE:O	2:S9:66:ILE:HG13	2.14	0.47
1:T0:276:ARG:HB3	7:4T:359:PHE:CG	2.49	0.47
2:T5:322:ASP:OD2	2:T5:373:ARG:NH2	2.46	0.47
1:T6:273:LEU:H	1:T6:292:GLN:HE22	1.61	0.47
2:T7:339:ARG:HH21	13:5K:24:VAL:HG13	1.79	0.47
1:T8:6:HIS:CE1	1:T8:8:GLN:HG2	2.49	0.47
1:T8:328:GLU:HB3	13:5K:89:TRP:HH2	1.79	0.47
2:U1:3:GLU:HG3	2:U1:51:THR:HA	1.95	0.47
1:U4:5:VAL:HG22	1:U4:133:PHE:HD1	1.79	0.47
2:U5:90:GLU:HB3	2:U5:121:ARG:HH22	1.78	0.47
1:U8:286:VAL:HG12	1:U8:329:GLN:HG3	1.96	0.47
2:U9:223:THR:OG1	2:U9:224:TYR:N	2.48	0.47
2:V3:116:ASP:OD1	2:V3:117:LEU:N	2.47	0.47
2:V9:5:ILE:HD11	2:V9:135:PHE:HE1	1.79	0.47
1:W2:375:GLN:HB3	1:W2:422:TYR:HD2	1.78	0.47
1:W2:412:GLU:OE1	1:W2:416:ASN:ND2	2.46	0.47
2:W3:246:GLY:HA2	2:W3:357:TYR:CD2	2.49	0.47
2:W7:27:GLU:OE1	2:W7:243:ARG:NH1	2.47	0.47
2:W9:109:THR:HG22	2:W9:110:ILE:HD13	1.95	0.47
2:W9:430:LYS:HD2	2:W9:433:GLU:OE2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X2:395:LEU:O	1:X2:399:THR:HG23	2.14	0.47
1:X6:14:ASN:HD22	1:X6:72:THR:HB	1.80	0.47
2:X7:407:TRP:CD2	1:X8:255:VAL:HG12	2.48	0.47
2:X9:327:ASP:N	2:X9:327:ASP:OD1	2.45	0.47
2:Y1:21:TRP:CZ2	2:Y1:65:CYS:HB2	2.49	0.47
1:Z2:21:TRP:CZ3	1:Z2:61:PRO:HB3	2.50	0.47
1:Z2:237:THR:HG23	1:Z2:241:ARG:HH21	1.79	0.47
2:Z3:259:LEU:HD21	2:Z3:316:CYS:HB2	1.95	0.47
1:Z6:66:MET:HE3	1:Z6:116:VAL:HG11	1.96	0.47
2:Z7:428:LEU:HA	2:Z7:431:ASP:OD1	2.14	0.47
2:0B:100:ALA:HA	1:0C:252:LYS:HE2	1.95	0.47
1:0C:311:LEU:O	1:0C:348:ASN:ND2	2.47	0.47
2:0F:3:GLU:HB2	2:0F:129:CYS:SG	2.54	0.47
1:0G:200:MET:SD	1:0G:268:VAL:HG21	2.53	0.47
2:0H:338:LYS:HZ2	2:0H:339:ARG:H	1.62	0.47
1:0K:100:ASN:HB3	1:0K:103:LYS:HB2	1.95	0.47
1:0O:4:ILE:HG22	1:0O:49:VAL:HG22	1.94	0.47
1:0O:113:ILE:HD13	1:0O:154:LYS:HG3	1.95	0.47
2:0P:111:GLY:HA2	2:0P:114:ILE:HG22	1.96	0.47
2:0R:174:SER:HB3	2:0R:207:GLU:OE1	2.14	0.47
2:0R:296:PHE:CE2	2:0R:335:ILE:HG12	2.49	0.47
1:0S:249:ASP:OD1	1:0S:252:LYS:N	2.39	0.47
1:0U:2:ARG:HE	1:0U:240:LEU:HD21	1.78	0.47
2:0V:116:ASP:N	2:0V:116:ASP:OD1	2.45	0.47
2:0X:63:PRO:HB2	2:0X:65:CYS:SG	2.54	0.47
2:1B:9:ILE:HG22	2:1B:146:GLY:HA2	1.97	0.47
1:1E:161:ASP:OD2	1:1E:162:ARG:HG2	2.14	0.47
2:1H:176:GLN:NE2	2:1H:207:GLU:HG2	2.28	0.47
2:1N:348:PRO:HG2	2:1N:349:THR:HG22	1.97	0.47
2:1R:156:ARG:HA	2:1R:159:VAL:HG12	1.96	0.47
1:1S:7:ILE:HB	1:1S:135:VAL:HG22	1.96	0.47
2:1T:187:SER:O	2:1T:191:THR:HG23	2.14	0.47
2:1T:305:CYS:HB3	2:1T:387:ILE:HD11	1.96	0.47
2:1X:129:CYS:SG	2:1X:130:THR:N	2.86	0.47
2:1X:166:LYS:N	2:1X:199:ASP:OD2	2.47	0.47
1:2A:167:PHE:CE2	1:2A:233:MET:HG2	2.49	0.47
2:2H:123:ARG:O	2:2H:127:ASP:N	2.43	0.47
1:2I:375:GLN:HB2	1:2I:419:VAL:HG13	1.96	0.47
2:2J:289:ALA:O	2:2J:293:ASN:ND2	2.48	0.47
2:2J:325:PRO:HA	2:2J:328:VAL:HG22	1.94	0.47
2:2P:90:GLU:O	2:2P:121:ARG:NH1	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2Q:276:ARG:HH22	10:5C:192:ARG:NH1	2.12	0.47
1:2Q:325:GLU:O	1:2Q:329:GLN:HB2	2.14	0.47
2:2R:66:ILE:O	2:2R:66:ILE:HG13	2.13	0.47
2:2R:69:ASP:OD1	2:2R:71:GLU:N	2.47	0.47
1:2U:77:ARG:HH11	17:5T:201:LEU:HG	1.77	0.47
1:2Y:91:VAL:HG11	1:2Y:116:VAL:HG12	1.95	0.47
2:3B:236:SER:O	2:3B:243:ARG:NH2	2.45	0.47
2:3D:198:THR:HG21	2:3D:201:ALA:HB2	1.95	0.47
2:3J:305:CYS:HB3	2:3J:387:ILE:HD11	1.95	0.47
2:3P:246:GLY:HA3	2:3P:356:ASN:HA	1.95	0.47
1:3Q:354:CYS:SG	1:3Q:355:ASP:N	2.87	0.47
5:4L:370:ALA:HA	5:4L:373:GLN:OE1	2.14	0.47
6:4O:89:ARG:HH12	30:7K:452:LEU:N	2.10	0.47
8:4W:227:LYS:O	8:4W:230:GLU:HG3	2.14	0.47
13:5J:18:ARG:HB3	24:6X:38:GLY:HA2	1.95	0.47
14:5M:208:TYR:HD1	14:5M:222:ALA:HA	1.78	0.47
14:5M:229:LYS:O	14:5M:230:ASN:C	2.51	0.47
14:5M:604:THR:HG22	14:5M:609:ARG:O	2.14	0.47
14:5N:604:THR:HG22	14:5N:609:ARG:O	2.14	0.47
15:5O:109:ILE:HG23	15:5O:192:LEU:HD21	1.96	0.47
16:5Q:148:ARG:HG3	16:5Q:149:GLY:N	2.29	0.47
17:5U:212:LYS:O	17:5U:216:GLU:HG3	2.14	0.47
17:5V:144:LYS:HA	17:5V:147:VAL:HG22	1.96	0.47
17:5V:200:SER:OG	17:5V:201:LEU:N	2.47	0.47
22:6O:238:LEU:H	22:6O:238:LEU:HD23	1.78	0.47
22:6P:281:LYS:HB2	22:6P:282:LYS:NZ	2.29	0.47
24:6T:450:VAL:HB	24:6T:469:PHE:CE2	2.49	0.47
24:6X:463:THR:O	24:6X:467:ARG:CG	2.57	0.47
24:7A:183:ASP:OD1	24:7A:184:ALA:N	2.47	0.47
26:7D:80:ARG:HG3	26:7D:82:PRO:HD2	1.96	0.47
26:7E:80:ARG:HG3	26:7E:82:PRO:HD2	1.96	0.47
26:7F:80:ARG:HG3	26:7F:82:PRO:HD2	1.96	0.47
29:7I:57:LYS:HB3	29:7I:61:LYS:NZ	2.28	0.47
30:7K:410:LEU:O	30:7K:413:GLU:HG3	2.14	0.47
2:2:370:LYS:HG3	24:6T:88:TRP:HZ3	1.78	0.47
1:5:337:ASN:HD21	3:3Z:69:TYR:N	1.84	0.47
1:A9:77:ARG:NH1	24:6U:242:PHE:HB2	2.29	0.47
2:B2:222:PRO:HA	18:5Z:51:MET:HE1	1.97	0.47
2:F1:88:HIS:HB3	2:G7:283:HIS:ND1	2.29	0.47
2:F9:322:ASP:OD2	24:6U:433:ARG:NH1	2.47	0.47
1:G2:65:LEU:HD12	1:G2:90:PHE:HE1	1.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G7:318:MET:HB2	2:G7:376:CYS:HB3	1.95	0.47
1:G8:107:THR:OG1	1:G8:401:GLU:OE2	2.23	0.47
2:H1:203:MET:O	2:H1:204:LEU:HD12	2.15	0.47
2:H7:145:THR:OG1	41:H8:501:GTP:O1B	2.31	0.47
2:H7:220:GLU:O	1:H8:324:LYS:NZ	2.35	0.47
2:H9:109:THR:OG1	2:H9:411:GLU:OE2	2.32	0.47
2:I1:11:GLN:NE2	1:I2:247:ASN:OD1	2.48	0.47
1:I4:70:PRO:HG2	2:I5:2:ARG:HH11	1.79	0.47
1:I4:327:ASP:N	1:I4:327:ASP:OD2	2.44	0.47
1:I8:334:GLN:HE22	1:I8:348:ASN:H	1.61	0.47
1:J2:190:HIS:HD2	1:J2:414:ASN:HB2	1.78	0.47
1:J2:212:PHE:CE1	2:J3:326:LYS:HG3	2.49	0.47
1:J4:178:THR:HG22	2:J5:352:LYS:HZ3	1.80	0.47
1:J6:86:ARG:NH1	1:J6:123:GLU:OE2	2.47	0.47
1:K0:52:ASN:OD1	1:K0:62:ARG:NH2	2.47	0.47
2:K1:31:GLN:HB2	2:K1:33:ASP:OD1	2.14	0.47
2:K1:288:VAL:HG11	2:K1:327:ASP:CB	2.44	0.47
1:L0:391:ARG:HD3	2:L1:346:TRP:CZ2	2.48	0.47
2:L1:97:GLU:N	2:L1:97:GLU:OE2	2.48	0.47
1:L2:244:GLY:HA2	1:L2:355:ASP:OD2	2.15	0.47
1:L4:382:SER:HB2	1:L4:415:MET:HG2	1.94	0.47
2:M3:187:SER:O	2:M3:191:THR:HG23	2.15	0.47
2:M5:89:PRO:HG3	37:7Y:124:ARG:CZ	2.44	0.47
1:M6:32:PRO:HD3	1:M6:81:TYR:CZ	2.50	0.47
1:M6:80:PRO:HB3	15:5P:69:PHE:CE1	2.50	0.47
1:M6:178:THR:HG23	1:M6:181:GLU:HG3	1.96	0.47
1:M8:282:ARG:NH2	1:M8:288:GLU:HB3	2.29	0.47
1:O0:117:LEU:HA	1:O0:120:VAL:HG12	1.96	0.47
1:O4:208:TYR:CE1	1:O4:225:LEU:HD11	2.49	0.47
1:O8:239:CYS:SG	1:O8:248:ALA:N	2.85	0.47
2:P5:249:ASN:ND2	27:7G:184:LYS:O	2.47	0.47
1:P6:100:ASN:HB3	1:P6:103:LYS:HB2	1.96	0.47
2:Q1:100:ALA:HA	1:Q2:252:LYS:HE2	1.96	0.47
1:Q6:111:GLU:OE1	1:Q6:111:GLU:N	2.47	0.47
1:Q8:178:THR:OG1	1:Q8:181:GLU:HG3	2.14	0.47
2:R3:372:GLN:HE22	7:4R:84:THR:HG21	1.77	0.47
2:R5:4:VAL:HG23	2:R5:134:GLY:O	2.14	0.47
2:R5:47:ASP:OD2	19:6E:256:LYS:NZ	2.30	0.47
2:R5:55:GLU:HG3	2:R5:61:HIS:HE1	1.79	0.47
2:R5:121:ARG:NH1	2:R5:124:LYS:HE3	2.28	0.47
1:R6:11:GLN:HE22	2:R7:249:ASN:H	1.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R6:317:PHE:HE2	1:R6:326:VAL:HG13	1.80	0.47
2:R7:289:ALA:O	2:R7:293:ASN:ND2	2.48	0.47
2:S5:184:PRO:O	2:S5:188:VAL:HG23	2.14	0.47
1:T2:31:ASP:HB2	1:T2:32:PRO:HD2	1.96	0.47
1:T2:301:CYS:SG	1:T2:302:ALA:N	2.87	0.47
2:T5:166:LYS:N	2:T5:199:ASP:OD1	2.48	0.47
1:T6:39:ASP:OD1	1:T6:40:SER:N	2.47	0.47
2:T7:204:LEU:HD23	2:T7:302:MET:HB3	1.96	0.47
1:U6:169:VAL:HG13	1:U6:203:ASP:HA	1.95	0.47
1:U6:282:ARG:HG2	1:U6:283:ALA:O	2.14	0.47
2:U7:119:LEU:HA	2:U7:122:ILE:HG22	1.97	0.47
1:V0:67:ASP:N	1:V0:67:ASP:OD1	2.47	0.47
2:V7:33:ASP:OD2	2:V7:35:GLN:NE2	2.47	0.47
2:V7:132:LEU:HD22	2:V7:164:LYS:HD3	1.97	0.47
1:W6:186:THR:HG22	1:W6:411:ALA:HB1	1.96	0.47
1:W6:260:PHE:HB2	1:W6:263:LEU:CD1	2.45	0.47
2:W9:14:ILE:CG1	2:W9:74:VAL:HG21	2.43	0.47
1:X2:178:THR:HA	2:X3:352:LYS:HD3	1.95	0.47
1:X2:250:LEU:HD12	1:X2:250:LEU:H	1.78	0.47
2:X3:332:VAL:HA	2:X3:335:ILE:HG12	1.95	0.47
2:X3:417:GLU:HA	2:X3:420:GLU:HG2	1.96	0.47
2:X5:240:ALA:HB1	2:X5:356:ASN:HD22	1.80	0.47
1:Y6:6:HIS:HA	1:Y6:134:GLN:O	2.13	0.47
1:Y8:396:HIS:HA	1:Y8:399:THR:OG1	2.14	0.47
1:Z0:64:ILE:HD11	1:Z0:123:GLU:OE1	2.14	0.47
2:Z7:67:PHE:C	2:Z7:68:LEU:HD12	2.34	0.47
2:Z7:280:LYS:O	2:Z7:283:HIS:HB3	2.14	0.47
1:Z8:414:ASN:HA	1:Z8:417:ASP:OD2	2.14	0.47
1:0A:358:PRO:HG2	1:0A:361:LEU:HB2	1.96	0.47
2:0B:259:LEU:HB3	2:0B:268:MET:HE3	1.96	0.47
2:0B:333:ALA:O	2:0B:337:THR:HG23	2.14	0.47
1:0C:17:GLY:HA2	1:0C:20:PHE:HB3	1.97	0.47
2:0H:12:ALA:HB2	41:0I:501:GTP:C8	2.49	0.47
1:0K:179:VAL:HA	2:0L:349:THR:HG23	1.95	0.47
1:0K:237:THR:HG23	1:0K:241:ARG:HE	1.79	0.47
2:0L:53:PHE:HB3	2:0L:61:HIS:HB3	1.96	0.47
2:0L:138:PHE:CZ	2:0L:235:ILE:HG13	2.49	0.47
2:0N:12:ALA:O	2:0N:16:VAL:HG23	2.14	0.47
2:0N:56:THR:HB	2:0N:60:LYS:HG2	1.97	0.47
1:0Y:395:LEU:HD23	1:0Y:395:LEU:HA	1.73	0.47
2:0Z:287:SER:N	2:0Z:290:GLU:OE2	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:31:ASP:OD1	1:1A:35:THR:N	2.38	0.47
2:1B:182:VAL:HG23	2:1B:186:ASN:ND2	2.29	0.47
2:1F:333:ALA:O	2:1F:337:THR:HG23	2.14	0.47
1:1G:8:GLN:O	1:1G:66:MET:HG3	2.14	0.47
1:1G:334:GLN:NE2	1:1G:348:ASN:H	2.10	0.47
1:1K:99:ASN:ND2	2:1L:254:GLU:OE2	2.47	0.47
2:1R:50:ASN:O	2:1R:64:ARG:NH2	2.46	0.47
2:1T:217:LEU:HD11	2:1T:275:ILE:HD11	1.96	0.47
2:2B:164:LYS:HE3	38:8A:80:TYR:HE2	1.78	0.47
1:2C:337:ASN:HB3	1:2C:340:TYR:HD2	1.79	0.47
2:2F:90:GLU:C	2:2F:121:ARG:HH12	2.17	0.47
1:2K:144:GLY:N	39:2K:502:GDP:O1B	2.46	0.47
1:2K:350:LYS:NZ	1:2K:351:SER:O	2.41	0.47
2:2N:66:ILE:HG13	2:2N:91:GLN:O	2.14	0.47
1:2Q:220:PRO:HG2	2:2R:326:LYS:HB2	1.97	0.47
1:2S:237:THR:HG23	1:2S:241:ARG:HE	1.78	0.47
1:2W:328:GLU:HB3	38:8B:67:PHE:HE1	1.79	0.47
2:2X:298:PRO:HG2	38:8B:23:SER:O	2.14	0.47
1:3A:5:VAL:HG23	1:3A:62:ARG:HG2	1.96	0.47
1:3C:371:SER:OG	1:3C:372:THR:N	2.47	0.47
2:3D:133:GLN:HB3	2:3D:252:ILE:CG2	2.44	0.47
2:3F:176:GLN:HE22	2:3F:304:LYS:HE2	1.79	0.47
2:3J:223:THR:HG22	2:3J:224:TYR:N	2.29	0.47
2:3P:174:SER:HB3	2:3P:177:VAL:O	2.14	0.47
1:3Q:322:SER:OG	1:3Q:325:GLU:OE1	2.32	0.47
2:3T:47:ASP:OD1	2:3T:48:ALA:N	2.47	0.47
3:3V:10:PHE:HB3	3:3V:140:LYS:NZ	2.29	0.47
3:3Z:10:PHE:HB3	3:3Z:140:LYS:NZ	2.29	0.47
3:3Z:75:ARG:HG2	3:3Z:76:PRO:HD2	1.96	0.47
3:4B:10:PHE:HB3	3:4B:140:LYS:NZ	2.29	0.47
3:4B:63:SER:OG	3:4B:66:THR:O	2.29	0.47
3:4D:10:PHE:HB3	3:4D:140:LYS:NZ	2.29	0.47
3:4D:75:ARG:HG2	3:4D:76:PRO:HD2	1.96	0.47
3:4H:10:PHE:HB3	3:4H:140:LYS:NZ	2.29	0.47
6:4O:199:ARG:O	6:4O:203:GLU:HG2	2.14	0.47
6:4O:261:GLU:O	6:4O:265:GLU:HG2	2.14	0.47
6:4O:284:TYR:O	6:4O:287:SER:OG	2.31	0.47
6:4P:85:TYR:O	6:4P:88:GLU:HG3	2.14	0.47
10:5B:158:LYS:O	10:5B:162:ILE:HG12	2.14	0.47
15:5O:61:PHE:CE1	15:5O:64:SER:HB3	2.49	0.47
17:5T:31:THR:HB	17:5T:36:PHE:CE2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:6F:238:LEU:HD21	20:6F:251:LEU:HD13	1.95	0.47
21:6H:117:PRO:O	21:6H:123:LEU:HD12	2.14	0.47
22:6L:17:ILE:HG22	22:6L:19:GLY:H	1.79	0.47
22:6M:46:SER:O	22:6M:49:SER:OG	2.31	0.47
22:6M:162:LEU:HD11	22:6M:225:ALA:HB1	1.96	0.47
23:6R:65:LEU:HD12	23:6R:65:LEU:HA	1.79	0.47
24:6T:503:ILE:HG21	24:6T:525:VAL:HG22	1.95	0.47
24:6T:570:GLU:N	24:6T:570:GLU:OE1	2.41	0.47
24:6T:602:LEU:HG	24:6T:604:PHE:HD1	1.80	0.47
24:6W:338:LEU:HD22	24:6W:341:LYS:HZ1	1.79	0.47
24:6Y:282:ARG:NH1	24:6Y:289:ARG:HD3	2.29	0.47
24:6Z:247:GLU:HG3	24:6Z:252:LYS:HB2	1.97	0.47
27:7G:202:GLY:HA3	27:7G:234:PHE:HE2	1.79	0.47
29:7I:169:THR:HB	29:7I:172:VAL:HG21	1.95	0.47
37:7Y:63:ASP:OD1	37:7Y:71:ARG:N	2.48	0.47
38:8D:76:ASP:OD2	38:8D:77:LYS:HD3	2.15	0.47
1:B8:277:GLY:HA2	24:6Y:142:ILE:HG13	1.95	0.47
1:G2:167:PHE:CE2	1:G2:233:MET:HG2	2.50	0.47
1:G2:238:CYS:SG	1:G2:318:ARG:NE	2.87	0.47
1:G8:7:ILE:HD13	1:G8:64:ILE:HB	1.96	0.47
2:G9:317:LEU:HB3	2:G9:319:TYR:HE1	1.78	0.47
1:H4:113:ILE:HD13	1:H4:150:LEU:CD2	2.45	0.47
1:H4:215:LEU:HB3	1:H4:217:LEU:HG	1.95	0.47
2:H7:4:VAL:HG23	2:H7:134:GLY:O	2.14	0.47
2:H7:353:CYS:SG	2:H7:354:GLY:N	2.86	0.47
2:H9:72:PRO:HD2	1:I0:2:ARG:NH1	2.30	0.47
2:I1:172:TYR:CE2	2:I1:203:MET:HG2	2.50	0.47
1:I4:178:THR:OG1	1:I4:181:GLU:HG3	2.14	0.47
1:I4:392:LYS:HA	1:I4:395:LEU:HD12	1.97	0.47
2:I7:287:SER:OG	2:I7:290:GLU:OE1	2.25	0.47
2:J1:262:TYR:HE2	2:J1:346:TRP:HZ3	1.61	0.47
1:J2:178:THR:HG22	1:J2:180:VAL:H	1.79	0.47
1:J4:263:LEU:HD21	1:J4:311:LEU:HD13	1.95	0.47
2:J9:89:PRO:HD2	2:L5:283:HIS:ND1	2.30	0.47
1:K0:135:VAL:HG21	1:K0:152:ILE:HD11	1.96	0.47
2:K1:129:CYS:SG	2:K1:130:THR:N	2.88	0.47
1:K4:175:VAL:O	1:K4:175:VAL:HG23	2.14	0.47
2:K5:7:ILE:HG12	2:K5:137:VAL:HG12	1.95	0.47
1:K8:382:SER:HB3	1:K8:415:MET:HG2	1.96	0.47
2:L1:305:CYS:HB3	2:L1:387:ILE:HD11	1.96	0.47
2:L7:413:MET:HE3	2:L7:414:GLU:H	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M4:201:VAL:HG13	1:M4:301:CYS:SG	2.55	0.47
1:N0:48:ASN:N	1:N0:48:ASN:OD1	2.46	0.47
2:N3:108:TYR:HB3	2:N3:411:GLU:OE2	2.14	0.47
2:N5:76:ASP:O	2:N5:80:THR:HG23	2.14	0.47
2:N5:240:ALA:HB1	2:N5:356:ASN:HD22	1.80	0.47
1:N8:7:ILE:HB	1:N8:135:VAL:HG22	1.96	0.47
2:N9:155:GLU:HG3	2:N9:197:HIS:NE2	2.29	0.47
1:O0:86:ARG:HG2	1:O0:88:ASP:H	1.78	0.47
2:P3:65:CYS:SG	2:P3:66:ILE:N	2.87	0.47
1:P4:318:ARG:HA	1:P4:354:CYS:O	2.14	0.47
2:P5:41:THR:HA	27:7G:220:MET:O	2.13	0.47
2:P9:195:LEU:HD21	2:P9:264:ARG:HH11	1.79	0.47
1:Q4:117:LEU:HA	1:Q4:120:VAL:HG12	1.96	0.47
1:Q6:204:ASN:ND2	39:Q6:502:GDP:HN22	2.12	0.47
1:Q8:26:ASP:OD2	24:6T:10:LYS:HG3	2.15	0.47
1:R0:153:SER:O	1:R0:157:GLU:HG2	2.13	0.47
1:R2:180:VAL:HG23	1:R2:184:ASN:ND2	2.29	0.47
1:R2:272:PRO:HD3	1:R2:364:SER:HA	1.96	0.47
2:R3:288:VAL:HG21	2:R3:323:VAL:HG23	1.96	0.47
2:R9:90:GLU:HB2	2:R9:121:ARG:HH12	1.79	0.47
2:S1:300:SER:O	2:S1:300:SER:OG	2.31	0.47
2:S7:394:LYS:HB2	1:S8:346:PRO:HG3	1.96	0.47
1:S8:208:TYR:CE1	1:S8:225:LEU:HD11	2.49	0.47
2:S9:12:ALA:O	2:S9:16:VAL:HG23	2.14	0.47
2:T1:11:GLN:OE1	2:T1:74:VAL:HG11	2.14	0.47
2:T3:284:GLU:HG2	2:T3:285:GLN:N	2.29	0.47
1:T8:279:GLN:OE1	7:4U:236:THR:HG23	2.14	0.47
1:U6:49:VAL:HG11	1:U6:241:ARG:HG2	1.95	0.47
1:U6:286:VAL:O	1:U6:290:THR:HG23	2.14	0.47
2:U9:305:CYS:HB3	2:U9:387:ILE:HD11	1.96	0.47
2:U9:336:LYS:HE3	2:U9:351:PHE:HD2	1.79	0.47
1:V6:212:PHE:HZ	2:V7:326:LYS:HB2	1.80	0.47
1:V6:220:PRO:HD2	2:V7:326:LYS:HD2	1.96	0.47
2:V7:251:ASP:OD1	2:V7:254:GLU:HG2	2.13	0.47
2:V7:407:TRP:CD2	1:V8:255:VAL:HG12	2.50	0.47
2:W3:277:SER:OG	2:W3:278:ALA:N	2.47	0.47
2:W7:53:PHE:HD1	2:W7:63:PRO:HA	1.78	0.47
2:W9:101:ASN:OD1	2:W9:186:ASN:ND2	2.47	0.47
2:W9:211:ASP:OD1	2:W9:214:ARG:NH2	2.41	0.47
1:X0:327:ASP:N	1:X0:327:ASP:OD2	2.43	0.47
2:X7:174:SER:HA	2:X7:205:ASP:OD1	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X9:51:THR:HG21	2:X9:243:ARG:HG2	1.96	0.47
2:X9:90:GLU:H	2:Z5:283:HIS:CE1	2.32	0.47
2:Y3:267:PHE:HB3	2:Y3:384:ILE:HG21	1.97	0.47
2:Y5:26:LEU:HD21	2:Y5:363:VAL:HG22	1.97	0.47
1:Y8:294:TRP:CD1	1:Y8:333:VAL:HG21	2.49	0.47
2:Y9:404:PHE:CE1	1:Z0:259:PRO:HB3	2.48	0.47
1:Z0:10:GLY:O	1:Z0:14:ASN:HB2	2.14	0.47
1:Z0:311:LEU:HD22	1:Z0:370:ASN:ND2	2.29	0.47
1:Z2:396:HIS:CE1	1:Z2:397:TRP:CE2	3.02	0.47
1:Z2:404:ASP:HB3	1:Z2:406:MET:SD	2.54	0.47
2:Z3:53:PHE:HB3	2:Z3:61:HIS:HB3	1.96	0.47
2:Z3:202:VAL:HG22	2:Z3:268:MET:HB2	1.97	0.47
1:Z6:4:ILE:HD11	1:Z6:134:GLN:HB2	1.96	0.47
1:0A:397:TRP:HE1	2:0B:260:VAL:HB	1.80	0.47
2:0B:33:ASP:O	2:0B:60:LYS:NZ	2.47	0.47
1:0E:249:ASP:OD1	1:0E:252:LYS:N	2.39	0.47
2:0F:205:ASP:OD2	2:0F:207:GLU:N	2.48	0.47
2:0J:338:LYS:NZ	2:0J:339:ARG:H	2.11	0.47
2:0L:90:GLU:HG2	2:0L:121:ARG:HH12	1.79	0.47
2:0L:387:ILE:HD12	2:0L:390:ARG:NH2	2.29	0.47
1:0O:293:MET:SD	1:0O:367:PHE:HB2	2.55	0.47
1:0Q:165:LEU:HD22	1:0Q:167:PHE:CE1	2.49	0.47
2:0R:88:HIS:HB3	2:1H:283:HIS:CE1	2.49	0.47
1:0S:73:MET:HE3	1:0S:77:ARG:HG3	1.95	0.47
1:0U:375:GLN:HB3	1:0U:422:TYR:HD2	1.79	0.47
1:0W:165:LEU:HD21	1:0W:250:LEU:HD11	1.96	0.47
2:0Z:145:THR:OG1	41:1A:501:GTP:O1B	2.32	0.47
2:0Z:415:GLU:OE1	2:0Z:415:GLU:N	2.45	0.47
2:1B:9:ILE:HG23	2:1B:68:LEU:HD11	1.97	0.47
1:1C:397:TRP:HZ2	2:1D:260:VAL:HG21	1.79	0.47
2:1H:116:ASP:N	2:1H:116:ASP:OD1	2.45	0.47
2:1P:9:ILE:HD11	2:1P:153:LEU:HD23	1.96	0.47
2:1P:76:ASP:OD2	1:1Q:46:ARG:NH2	2.47	0.47
2:1R:33:ASP:OD1	2:1R:34:GLY:N	2.47	0.47
1:1S:35:THR:OG1	1:1S:37:HIS:NE2	2.48	0.47
1:1S:417:ASP:HA	1:1S:420:SER:OG	2.13	0.47
1:1U:72:THR:O	1:1U:75:SER:OG	2.27	0.47
2:1V:49:PHE:HB2	2:1V:53:PHE:HD2	1.80	0.47
1:2A:235:GLY:HA3	1:2A:366:THR:HG21	1.96	0.47
1:2C:68:LEU:HB3	1:2C:96:GLY:HA2	1.96	0.47
1:2C:186:THR:HG22	1:2C:411:ALA:HB1	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2H:109:THR:OG1	2:2H:411:GLU:OE2	2.26	0.47
2:2P:214:ARG:NH1	38:7Z:18:VAL:HA	2.29	0.47
1:2W:404:ASP:OD1	1:2W:405:GLU:N	2.47	0.47
1:3A:53:GLU:HA	1:3A:53:GLU:OE2	2.14	0.47
1:3A:170:VAL:HG22	1:3A:202:LEU:O	2.15	0.47
2:3B:90:GLU:HG2	2:3B:121:ARG:HH12	1.79	0.47
2:3B:115:VAL:HG21	2:3B:152:LEU:HD23	1.96	0.47
2:3B:214:ARG:NH2	38:8C:16:LYS:HB3	2.28	0.47
2:3B:262:TYR:HB2	2:3B:265:ILE:HD12	1.95	0.47
1:3C:53:GLU:OE1	1:3C:53:GLU:HA	2.15	0.47
1:3C:86:ARG:HB3	1:3C:89:ASN:OD1	2.14	0.47
1:3C:320:ARG:HH12	38:8D:198:THR:N	2.13	0.47
2:3F:221:ARG:NE	38:8A:174:SER:OG	2.46	0.47
1:3G:211:CYS:HA	1:3G:215:LEU:HB2	1.96	0.47
2:3L:301:MET:HE1	2:3L:307:PRO:HD3	1.97	0.47
1:3M:334:GLN:HE22	1:3M:347:ASN:HA	1.80	0.47
1:3Q:309:ARG:NH1	1:3Q:341:PHE:O	2.47	0.47
3:3V:63:SER:OG	3:3V:66:THR:O	2.29	0.47
3:3X:10:PHE:HB3	3:3X:140:LYS:NZ	2.29	0.47
3:3X:63:SER:OG	3:3X:66:THR:O	2.29	0.47
3:4F:10:PHE:HB3	3:4F:140:LYS:NZ	2.29	0.47
3:4F:63:SER:OG	3:4F:66:THR:O	2.29	0.47
7:4R:123:LEU:HA	7:4R:123:LEU:HD13	1.70	0.47
7:4R:254:SER:OG	7:4R:255:ALA:N	2.47	0.47
7:4U:24:TRP:HD1	11:5E:248:LEU:HG	1.80	0.47
7:4U:199:VAL:HG12	31:7N:60:ILE:HD12	1.97	0.47
9:4Z:234:LEU:O	9:4Z:238:GLU:HG2	2.14	0.47
12:5G:331:ASN:ND2	31:7N:18:THR:HG22	2.30	0.47
17:5S:212:LYS:O	17:5S:216:GLU:HG3	2.14	0.47
17:5T:212:LYS:O	17:5T:216:GLU:HG3	2.14	0.47
18:5X:24:ARG:HG3	18:5X:27:ASP:OD1	2.15	0.47
18:5Z:24:ARG:HG3	18:5Z:27:ASP:OD1	2.15	0.47
18:6A:61:LYS:HA	18:6A:61:LYS:HD2	1.73	0.47
18:6B:61:LYS:HA	18:6B:61:LYS:HD2	1.73	0.47
18:6D:24:ARG:HG3	18:6D:27:ASP:OD1	2.15	0.47
22:6K:28:GLN:HG3	22:6K:29:GLU:OE1	2.14	0.47
24:6V:11:LEU:HD23	24:6V:14:TYR:CE2	2.49	0.47
24:6V:183:ASP:OD1	24:6V:184:ALA:N	2.47	0.47
24:6W:112:GLU:HB2	24:6W:209:PRO:HG2	1.97	0.47
24:6X:591:ASP:N	24:6X:591:ASP:OD1	2.47	0.47
1:9:281:TYR:OH	1:T2:83:GLN:O	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D2:78:SER:CB	24:6X:323:LYS:HG3	2.43	0.47
1:D4:74:ASP:OD2	24:6Y:319:PRO:HD2	2.13	0.47
2:G1:220:GLU:OE1	2:G1:220:GLU:N	2.47	0.47
2:G3:12:ALA:HB2	41:G4:501:GTP:C8	2.49	0.47
1:G6:7:ILE:HD13	1:G6:151:LEU:HD21	1.96	0.47
2:G7:56:THR:HA	2:I3:285:GLN:HB2	1.95	0.47
1:G8:68:LEU:HB3	1:G8:96:GLY:HA2	1.97	0.47
2:G9:334:THR:HA	2:G9:337:THR:HG22	1.96	0.47
2:H7:194:LEU:O	2:H7:198:THR:HG22	2.14	0.47
1:H8:53:GLU:OE2	1:H8:57:GLY:N	2.47	0.47
2:H9:102:ASN:HD22	2:H9:105:ARG:HB2	1.79	0.47
2:I1:320:ARG:NH2	2:I1:359:PRO:O	2.46	0.47
1:I2:190:HIS:CD2	1:I2:411:ALA:HA	2.50	0.47
1:I8:69:GLU:C	1:I8:92:PHE:HZ	2.18	0.47
1:J0:60:VAL:HG23	1:J0:84:ILE:O	2.14	0.47
2:J3:88:HIS:ND1	2:J3:121:ARG:NH2	2.63	0.47
2:J7:352:LYS:NZ	2:J7:353:CYS:O	2.48	0.47
2:L3:21:TRP:CZ2	2:L3:65:CYS:HB3	2.49	0.47
1:L4:117:LEU:HA	1:L4:120:VAL:HG12	1.97	0.47
1:L6:130:LEU:HB3	1:L6:162:ARG:HE	1.80	0.47
1:L6:220:PRO:HG2	2:L7:326:LYS:HB2	1.95	0.47
2:L9:287:SER:OG	2:L9:290:GLU:OE1	2.24	0.47
1:M0:178:THR:OG1	2:M1:258:ASN:ND2	2.47	0.47
2:M5:34:GLY:O	2:M5:60:LYS:HA	2.14	0.47
1:M6:309:ARG:H	1:M6:372:THR:HG22	1.79	0.47
2:M7:14:ILE:HD11	2:M7:74:VAL:HG13	1.96	0.47
2:N1:189:LEU:HD11	2:N1:418:PHE:HE1	1.80	0.47
1:N2:359:LYS:HE2	29:7J:105:PHE:HB2	1.95	0.47
1:O2:274:THR:HG22	1:O2:282:ARG:HD2	1.95	0.47
1:O2:320:ARG:HH22	37:7Y:240:SER:HB3	1.79	0.47
1:O4:69:GLU:C	1:O4:92:PHE:HZ	2.17	0.47
2:O7:264:ARG:NH2	2:O7:431:ASP:OD1	2.47	0.47
1:O8:131:GLN:HE21	1:O8:250:LEU:HD13	1.80	0.47
2:P3:79:ARG:O	2:P3:84:ARG:HG2	2.15	0.47
2:P3:183:GLU:HG3	2:P3:184:PRO:HD3	1.97	0.47
1:Q4:51:PHE:HB3	1:Q4:59:TYR:HB3	1.97	0.47
2:Q5:62:VAL:HG21	2:S1:283:HIS:O	2.14	0.47
2:Q5:320:ARG:HD3	2:Q5:360:PRO:HG3	1.95	0.47
2:Q9:278:ALA:HA	2:Q9:369:ALA:HB2	1.97	0.47
2:Q9:306:ASP:OD1	2:Q9:308:ARG:NH1	2.47	0.47
1:R2:149:THR:HG23	1:R2:191:GLN:HG2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R2:397:TRP:HA	1:R2:397:TRP:HE3	1.78	0.47
1:R4:238:CYS:SG	1:R4:318:ARG:NE	2.88	0.47
2:R5:7:ILE:HD12	2:R5:153:LEU:HD21	1.96	0.47
2:R5:100:ALA:HA	1:R6:252:LYS:HE2	1.96	0.47
2:R5:175:PRO:HG2	2:R5:176:GLN:OE1	2.14	0.47
1:R8:190:HIS:HD2	1:R8:414:ASN:HB2	1.78	0.47
1:S2:314:SER:HA	1:S2:350:LYS:O	2.15	0.47
2:S9:333:ALA:O	2:S9:337:THR:HG23	2.14	0.47
1:T4:45:GLU:HG3	1:T4:46:ARG:HG2	1.96	0.47
2:U1:51:THR:HG21	2:U1:243:ARG:HG2	1.96	0.47
1:U4:229:ILE:HG22	1:U4:233:MET:SD	2.54	0.47
2:U5:224:TYR:CZ	1:U6:323:THR:HG21	2.50	0.47
1:W0:53:GLU:OE2	1:W0:57:GLY:N	2.47	0.47
2:W3:9:ILE:HD11	2:W3:153:LEU:HD23	1.97	0.47
1:W4:22:GLU:HG2	1:W4:81:TYR:CD1	2.50	0.47
2:X3:265:ILE:HD11	2:X3:435:VAL:HG21	1.97	0.47
2:X5:352:LYS:HD2	2:X5:353:CYS:N	2.29	0.47
1:X6:49:VAL:HG21	1:X6:241:ARG:HG2	1.97	0.47
1:X6:185:ALA:O	1:X6:189:VAL:HG12	2.15	0.47
1:X8:52:ASN:OD1	1:X8:62:ARG:NH2	2.47	0.47
2:X9:5:ILE:HD11	2:X9:135:PHE:HE1	1.77	0.47
2:X9:62:VAL:HB	2:X9:88:HIS:CE1	2.50	0.47
2:Y3:33:ASP:O	2:Y3:60:LYS:NZ	2.47	0.47
1:Y6:21:TRP:HA	1:Y6:24:VAL:HG22	1.96	0.47
2:Y9:7:ILE:HG23	2:Y9:66:ILE:HG13	1.97	0.47
1:Z0:404:ASP:HB3	1:Z0:406:MET:SD	2.55	0.47
2:Z1:194:LEU:O	2:Z1:198:THR:HG22	2.14	0.47
2:Z7:238:LEU:HD11	2:Z7:255:PHE:HE1	1.80	0.47
1:Z8:177:ASP:O	2:Z9:352:LYS:HA	2.14	0.47
2:Z9:188:VAL:HG23	2:Z9:189:LEU:HD12	1.97	0.47
1:0G:382:SER:HB3	1:0G:415:MET:HG2	1.95	0.47
1:0K:139:LEU:HD12	1:0K:170:VAL:HG12	1.96	0.47
1:0K:374:ILE:HD11	1:0K:422:TYR:CZ	2.49	0.47
1:0O:117:LEU:HA	1:0O:120:VAL:HG12	1.96	0.47
2:0R:397:LEU:HD11	1:0S:344:TRP:HA	1.96	0.47
1:0S:135:VAL:HG11	1:0S:152:ILE:HD11	1.95	0.47
1:0S:272:PRO:HB2	1:0S:282:ARG:HH12	1.79	0.47
1:0S:382:SER:OG	1:0S:415:MET:HG2	2.15	0.47
1:0U:421:GLU:HA	1:0U:424:GLN:HB3	1.96	0.47
2:0V:66:ILE:HG13	2:0V:66:ILE:O	2.15	0.47
2:0V:368:LEU:H	2:0V:368:LEU:HD23	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0X:176:GLN:HG2	2:0X:177:VAL:N	2.28	0.47
1:1A:5:VAL:HG23	1:1A:62:ARG:HG2	1.96	0.47
2:1P:250:VAL:HG23	2:1P:254:GLU:HG3	1.95	0.47
2:1P:312:TYR:HB2	2:1P:343:PHE:HD1	1.79	0.47
2:1R:5:ILE:HD11	2:1R:135:PHE:HE1	1.79	0.47
2:1R:259:LEU:HD21	2:1R:316:CYS:HB2	1.95	0.47
2:1V:317:LEU:HB3	2:1V:319:TYR:CE1	2.49	0.47
1:1W:377:MET:SD	1:1W:380:ARG:NH2	2.87	0.47
2:1X:178:SER:OG	2:1X:180:ALA:O	2.31	0.47
2:1X:382:THR:O	2:1X:385:GLY:N	2.47	0.47
2:2B:245:ASP:OD1	2:2B:245:ASP:N	2.43	0.47
2:2B:394:LYS:HB2	1:2C:346:PRO:HG3	1.97	0.47
1:2C:178:THR:OG1	1:2C:179:VAL:N	2.47	0.47
2:2D:187:SER:O	2:2D:191:THR:HG23	2.14	0.47
2:2D:333:ALA:O	2:2D:337:THR:HG23	2.14	0.47
1:2E:210:ILE:O	1:2E:214:THR:OG1	2.24	0.47
2:2F:66:ILE:O	2:2F:66:ILE:HG13	2.14	0.47
2:2H:259:LEU:HD11	2:2H:316:CYS:HB2	1.96	0.47
1:2M:183:TYR:HA	1:2M:385:PHE:HE1	1.79	0.47
2:2N:50:ASN:O	2:2N:64:ARG:NH2	2.47	0.47
2:2N:111:GLY:O	2:2N:115:VAL:HG12	2.13	0.47
2:2P:90:GLU:HG2	2:3F:280:LYS:NZ	2.29	0.47
1:2Q:213:ARG:HE	1:2Q:297:LYS:HZ2	1.61	0.47
1:2Q:332:ASN:OD1	38:7Z:1:MET:HA	2.14	0.47
2:2R:175:PRO:HB3	2:2R:390:ARG:NE	2.29	0.47
1:2S:178:THR:OG1	1:2S:179:VAL:N	2.47	0.47
1:2S:179:VAL:HG23	1:2S:180:VAL:HG13	1.96	0.47
2:2X:11:GLN:NE2	1:2Y:247:ASN:OD1	2.47	0.47
2:2Z:47:ASP:N	2:2Z:47:ASP:OD1	2.46	0.47
1:3A:49:VAL:HG11	1:3A:241:ARG:HG2	1.95	0.47
2:3B:231:ILE:O	2:3B:234:VAL:HG12	2.14	0.47
1:3C:306:ARG:NH2	38:8D:99:THR:H	2.10	0.47
2:3D:6:SER:HG	2:3D:21:TRP:HZ2	1.63	0.47
2:3J:246:GLY:N	2:3J:249:ASN:HD21	2.09	0.47
3:3V:75:ARG:HG2	3:3V:76:PRO:HD2	1.96	0.47
3:3Z:63:SER:OG	3:3Z:66:THR:O	2.29	0.47
4:4E:136:LEU:O	4:4E:140:THR:OG1	2.32	0.47
3:4H:75:ARG:HG2	3:4H:76:PRO:HD2	1.96	0.47
7:4R:308:ARG:NH2	20:6F:215:GLU:HG3	2.29	0.47
8:4W:150:THR:O	8:4W:154:ILE:HG12	2.15	0.47
9:4Y:448:LYS:HA	9:4Y:448:LYS:HD2	1.67	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5E:110:GLN:H	11:5E:110:GLN:CD	2.17	0.47
12:5F:56:THR:HG23	12:5F:57:THR:N	2.29	0.47
12:5G:302:SER:OG	12:5G:358:HIS:ND1	2.46	0.47
13:5K:70:LYS:HE2	13:5K:70:LYS:HB3	1.43	0.47
14:5L:461:LEU:HG	14:5L:462:GLU:O	2.15	0.47
14:5M:461:LEU:HG	14:5M:462:GLU:O	2.15	0.47
14:5N:461:LEU:HG	14:5N:462:GLU:O	2.15	0.47
15:5P:21:LEU:HB2	19:6E:105:VAL:HG11	1.96	0.47
15:5P:145:PHE:O	15:5P:149:LEU:HG	2.14	0.47
18:5X:61:LYS:HD2	18:5X:61:LYS:HA	1.73	0.47
18:6A:24:ARG:HG3	18:6A:27:ASP:OD1	2.15	0.47
18:6C:24:ARG:HG3	18:6C:27:ASP:OD1	2.15	0.47
22:6P:307:ARG:HG3	22:6P:326:PHE:CE1	2.49	0.47
24:6U:92:ASP:CG	24:6U:93:ARG:N	2.66	0.47
24:6U:132:VAL:HG12	24:6U:147:PHE:HB3	1.96	0.47
24:6X:106:VAL:HG22	24:6X:107:VAL:H	1.78	0.47
24:6X:505:LYS:NZ	24:6X:510:GLU:HG3	2.29	0.47
30:7K:251:LYS:O	30:7K:255:THR:HG22	2.14	0.47
30:7K:316:GLU:HG2	30:7K:319:ARG:HH12	1.78	0.47
30:7K:346:ARG:HH21	30:7K:350:ASN:HD22	1.62	0.47
38:8C:117:TRP:O	38:8C:121:LEU:HG	2.15	0.47
1:5:40:SER:O	26:7D:25:TYR:HE2	1.89	0.47
1:D6:79:GLY:HA2	24:6Z:323:LYS:HG3	1.95	0.47
1:E2:56:GLY:HA2	22:6J:254:ALA:HB3	1.96	0.47
1:F8:216:LYS:HB3	24:6U:422:ASN:OD1	2.15	0.47
2:G1:216:SER:OG	2:G1:217:LEU:N	2.48	0.47
2:G3:212:ILE:O	2:G3:216:SER:OG	2.31	0.47
1:G4:6:HIS:CE1	1:G4:8:GLN:HG2	2.49	0.47
1:G4:404:ASP:HB3	1:G4:406:MET:SD	2.55	0.47
1:G6:95:THR:HG23	1:G6:96:GLY:N	2.29	0.47
1:G6:232:VAL:CG1	1:G6:268:VAL:HG11	2.45	0.47
2:G9:52:PHE:HE2	2:G9:243:ARG:HG3	1.79	0.47
1:H2:107:THR:OG1	1:H2:108:GLU:OE1	2.21	0.47
2:H3:414:GLU:HG2	2:H3:417:GLU:OE1	2.14	0.47
2:H7:71:GLU:HG2	2:H7:73:THR:H	1.79	0.47
1:I0:35:THR:HA	1:I0:57:GLY:O	2.15	0.47
1:I4:218:THR:OG1	24:6Z:488:ARG:HB2	2.14	0.47
2:I7:398:MET:HG3	1:I8:346:PRO:HD2	1.96	0.47
1:I8:145:SER:HG	1:I8:188:SER:HG	1.63	0.47
1:J4:245:GLN:HG2	16:5Q:153:THR:HG21	1.97	0.47
2:J5:53:PHE:HB3	2:J5:61:HIS:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J6:271:THR:OG1	1:J6:365:ALA:HB3	2.14	0.47
1:J6:385:PHE:CE2	1:J6:412:GLU:HG3	2.49	0.47
1:J8:285:THR:OG1	1:J8:288:GLU:HG2	2.15	0.47
1:J8:371:SER:OG	1:J8:372:THR:N	2.48	0.47
2:K3:259:LEU:HD11	2:K3:316:CYS:HB2	1.97	0.47
1:K4:16:ILE:HD11	1:K4:229:ILE:HB	1.95	0.47
2:K5:9:ILE:HD13	2:K5:150:GLY:HA2	1.96	0.47
2:K9:88:HIS:ND1	2:K9:89:PRO:HD2	2.30	0.47
1:L2:173:PRO:HB3	1:L2:384:GLN:HE22	1.79	0.47
1:L2:185:ALA:O	1:L2:189:VAL:HG22	2.15	0.47
1:L6:44:LEU:O	1:L6:47:ILE:HG12	2.14	0.47
2:L9:8:HIS:CD2	2:L9:17:GLY:HA3	2.49	0.47
2:M3:255:PHE:HA	2:M3:259:LEU:HD13	1.96	0.47
2:M9:72:PRO:HD2	1:N0:2:ARG:HH12	1.79	0.47
2:N3:288:VAL:HG11	2:N3:327:ASP:HB2	1.96	0.47
2:N7:167:LEU:HD12	2:N7:200:VAL:HB	1.96	0.47
1:O2:232:VAL:O	1:O2:236:ILE:HG12	2.14	0.47
1:O4:35:THR:OG1	1:O4:37:HIS:NE2	2.45	0.47
1:O4:404:ASP:HB2	1:O4:406:MET:SD	2.53	0.47
2:O7:203:MET:CE	2:O7:267:PHE:HB3	2.45	0.47
2:O9:297:GLU:HG3	2:O9:299:ALA:H	1.80	0.47
2:P5:242:LEU:HD11	2:P5:252:ILE:HG12	1.97	0.47
2:P5:278:ALA:HA	2:P5:369:ALA:HB2	1.96	0.47
1:P8:317:PHE:HB3	1:P8:321:MET:SD	2.55	0.47
2:P9:12:ALA:HB2	41:P9:501:GTP:C8	2.49	0.47
2:P9:286:LEU:HD13	2:P9:371:VAL:HG13	1.96	0.47
1:Q0:391:ARG:HB2	2:Q1:346:TRP:CZ3	2.49	0.47
2:Q3:247:ALA:HB2	2:Q3:357:TYR:OH	2.15	0.47
1:Q4:156:ARG:NH1	1:Q4:197:ASP:OD1	2.48	0.47
2:Q9:9:ILE:HG22	2:Q9:146:GLY:HA2	1.97	0.47
2:R5:191:THR:HA	2:R5:194:LEU:HB3	1.95	0.47
1:R6:293:MET:HE1	1:R6:317:PHE:CE1	2.45	0.47
2:R7:117:LEU:HD22	13:5J:95:THR:HG21	1.97	0.47
2:R9:4:VAL:HG23	2:R9:134:GLY:O	2.15	0.47
2:S5:177:VAL:HG23	1:S6:327:ASP:HB3	1.96	0.47
2:S5:242:LEU:HD11	2:S5:252:ILE:HG12	1.97	0.47
2:S7:183:GLU:CD	2:S7:184:PRO:HD3	2.35	0.47
2:T1:21:TRP:CZ2	2:T1:65:CYS:HB3	2.49	0.47
1:T2:222:PHE:CD2	2:T3:247:ALA:HB1	2.50	0.47
2:T5:394:LYS:HB2	1:T6:346:PRO:HG3	1.95	0.47
1:T6:91:VAL:HG21	1:T6:116:VAL:HG22	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T6:121:ARG:NE	1:T6:158:GLU:OE2	2.38	0.47
2:U5:156:ARG:HA	2:U5:159:VAL:HG12	1.95	0.47
2:V1:222:PRO:HD2	1:V2:324:LYS:HE3	1.96	0.47
2:V3:216:SER:OG	2:V3:275:ILE:O	2.32	0.47
1:V6:4:ILE:HG22	1:V6:49:VAL:CG2	2.44	0.47
1:V8:417:ASP:HA	1:V8:420:SER:OG	2.15	0.47
1:W4:286:VAL:HG22	1:W4:321:MET:HE2	1.97	0.47
2:W7:176:GLN:HB3	1:W8:331:LEU:HD11	1.97	0.47
1:X0:262:ARG:NH2	1:X0:417:ASP:OD1	2.48	0.47
1:X2:394:PHE:CE2	2:X3:261:PRO:HB3	2.49	0.47
2:X5:129:CYS:SG	2:X5:130:THR:N	2.87	0.47
1:X8:418:LEU:O	1:X8:421:GLU:HG2	2.14	0.47
2:X9:147:SER:OG	2:X9:190:SER:HB2	2.14	0.47
2:X9:181:VAL:H	1:Y0:256:ASN:ND2	2.12	0.47
1:Y4:273:LEU:H	1:Y4:292:GLN:HE22	1.63	0.47
2:Y5:32:PRO:HB3	2:Y5:83:TYR:CE1	2.49	0.47
2:Y5:179:THR:HG21	1:Y6:246:LEU:HD11	1.95	0.47
1:Y8:273:LEU:N	1:Y8:292:GLN:HE22	2.09	0.47
1:Z0:11:GLN:HG2	1:Z0:12:CYS:N	2.29	0.47
1:Z0:121:ARG:NH2	1:Z0:158:GLU:OE2	2.39	0.47
1:Z0:186:THR:OG1	1:Z0:187:LEU:HD12	2.14	0.47
1:Z0:248:ALA:HA	1:Z0:252:LYS:HD2	1.96	0.47
2:Z3:121:ARG:HD3	2:Z3:124:LYS:HE3	1.95	0.47
1:Z6:202:LEU:HD23	1:Z6:229:ILE:CD1	2.44	0.47
1:Z6:372:THR:O	1:Z6:375:GLN:HG3	2.15	0.47
1:Z8:274:THR:HG21	1:Z8:282:ARG:HD3	1.97	0.47
1:Z8:404:ASP:OD1	1:Z8:405:GLU:N	2.44	0.47
2:0B:332:VAL:HA	2:0B:335:ILE:HG22	1.95	0.47
1:0E:203:ASP:N	1:0E:203:ASP:OD1	2.48	0.47
1:0E:286:VAL:CG2	1:0E:287:PRO:HD3	2.43	0.47
2:0F:21:TRP:CZ3	2:0F:63:PRO:HB3	2.49	0.47
1:0G:244:GLY:HA3	1:0G:354:CYS:HA	1.95	0.47
2:0N:346:TRP:CD1	2:0N:346:TRP:O	2.67	0.47
1:0O:267:MET:HG3	1:0O:299:MET:HE2	1.97	0.47
1:0Q:337:ASN:HB2	1:0Q:340:TYR:CD2	2.49	0.47
1:0U:242:PHE:CD1	1:0U:356:ILE:HG13	2.50	0.47
2:0V:203:MET:O	2:0V:204:LEU:HD12	2.14	0.47
2:0X:305:CYS:SG	2:0X:383:ALA:HB1	2.54	0.47
1:0Y:385:PHE:HZ	1:0Y:408:PHE:HD1	1.61	0.47
2:0Z:344:VAL:HG22	2:0Z:346:TRP:H	1.79	0.47
1:1A:180:VAL:HG23	1:1A:184:ASN:ND2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1C:186:THR:HG22	1:1C:411:ALA:HB1	1.96	0.47
2:1D:177:VAL:HG13	1:1E:327:ASP:HB2	1.97	0.47
2:1D:346:TRP:O	2:1D:346:TRP:CE3	2.65	0.47
2:1F:394:LYS:HB2	1:1G:346:PRO:HG3	1.96	0.47
1:1G:183:TYR:OH	1:1G:388:MET:HB3	2.15	0.47
1:1G:202:LEU:HD13	1:1G:229:ILE:HD13	1.95	0.47
2:1L:200:VAL:HG13	2:1L:268:MET:CE	2.44	0.47
1:1Q:174:LYS:HB2	1:1Q:205:GLU:OE2	2.15	0.47
2:1R:280:LYS:HA	2:1R:283:HIS:HB2	1.97	0.47
2:1T:221:ARG:HA	1:1U:325:GLU:OE2	2.14	0.47
2:1Z:204:LEU:HD23	2:1Z:231:ILE:HD12	1.96	0.47
2:2F:278:ALA:HB2	10:5A:437:GLN:HE22	1.79	0.47
1:2G:165:LEU:HD23	1:2G:165:LEU:HA	1.76	0.47
2:2H:21:TRP:CZ2	2:2H:65:CYS:HB2	2.49	0.47
1:2K:177:ASP:OD1	2:2L:248:LEU:HD11	2.15	0.47
2:2L:145:THR:OG1	41:2L:501:GTP:O1B	2.29	0.47
2:2N:333:ALA:O	2:2N:337:THR:HG23	2.14	0.47
2:2P:297:GLU:HG2	38:7Z:25:ILE:HD12	1.95	0.47
2:2P:317:LEU:HD23	2:2P:377:MET:HG2	1.96	0.47
1:2S:77:ARG:NH2	38:8B:220:VAL:HA	2.23	0.47
2:2V:85:GLN:HG3	14:5M:503:ARG:HH22	1.79	0.47
2:2X:104:ALA:HB1	2:2X:411:GLU:HB3	1.96	0.47
2:2X:174:SER:OG	2:2X:207:GLU:OE1	2.31	0.47
2:2X:282:TYR:HH	10:5C:384:GLN:HE21	1.48	0.47
1:2Y:354:CYS:SG	1:2Y:355:ASP:N	2.87	0.47
2:3B:49:PHE:HB2	2:3B:53:PHE:CZ	2.50	0.47
2:3D:277:SER:OG	2:3D:278:ALA:N	2.47	0.47
1:3I:249:ASP:O	1:3I:253:LEU:HG	2.15	0.47
1:3M:389:PHE:HZ	1:3M:405:GLU:HG2	1.80	0.47
2:3N:221:ARG:NH1	38:8C:176:THR:OG1	2.48	0.47
1:3O:77:ARG:NH2	3:4F:18:LYS:HB3	2.30	0.47
1:3Q:108:GLU:HA	1:3Q:111:GLU:OE2	2.15	0.47
1:3Q:201:VAL:HG22	1:3Q:266:PHE:O	2.14	0.47
1:3Q:274:THR:OG1	1:3Q:282:ARG:NH1	2.48	0.47
4:3W:136:LEU:O	4:3W:140:THR:OG1	2.32	0.47
4:4A:136:LEU:O	4:4A:140:THR:OG1	2.32	0.47
3:4H:63:SER:OG	3:4H:66:THR:O	2.29	0.47
5:4M:293:LEU:CD1	28:7X:305:ALA:CB	2.83	0.47
6:4O:358:LYS:HD2	6:4O:362:ARG:HE	1.79	0.47
6:4O:411:ARG:NH1	29:7J:436:GLU:HG2	2.30	0.47
8:4W:458:GLU:HA	8:4W:461:VAL:CG1	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:4Z:206:ARG:NE	9:4Z:206:ARG:HA	2.29	0.47
10:5A:477:LYS:HD2	10:5B:150:MET:HB3	1.97	0.47
10:5B:110:GLU:HA	10:5B:113:LYS:HD3	1.97	0.47
12:5G:347:PRO:HG2	12:5G:350:VAL:HG21	1.96	0.47
14:5L:218:VAL:HG12	14:5L:281:LYS:HZ2	1.78	0.47
15:5O:34:GLU:CG	15:5O:49:ARG:CZ	2.81	0.47
15:5P:68:VAL:HG22	15:5P:69:PHE:HD2	1.79	0.47
18:5Y:24:ARG:HG3	18:5Y:27:ASP:OD1	2.15	0.47
18:6B:24:ARG:HG3	18:6B:27:ASP:OD1	2.15	0.47
22:6I:248:MET:HG2	22:6I:253:PHE:HA	1.96	0.47
22:6O:265:ASP:HA	22:6O:268:ASP:OD1	2.15	0.47
24:6U:112:GLU:HB2	24:6U:209:PRO:HG2	1.96	0.47
24:6X:80:ASP:O	24:6X:81:THR:OG1	2.26	0.47
24:6X:602:LEU:HG	24:6X:604:PHE:HD1	1.80	0.47
24:6Y:558:LEU:HD13	24:6Y:608:GLN:HB3	1.96	0.47
36:7V:22:ALA:HA	36:7V:25:THR:HG22	1.95	0.47
1:5:42:LEU:HD21	26:7D:121:LYS:HE3	1.95	0.47
2:B4:206:ASN:ND2	41:B5:501:GTP:O2'	2.46	0.47
2:B7:222:PRO:HA	18:6B:51:MET:HE1	1.94	0.47
2:B9:223:THR:HG22	18:6C:51:MET:HE3	1.96	0.47
1:C4:11:GLN:N	39:C4:501:GDP:O1B	2.38	0.47
1:D0:11:GLN:N	39:D0:501:GDP:O2B	2.47	0.47
1:D0:204:ASN:HD21	39:D0:501:GDP:N2	2.09	0.47
1:G4:114:ASP:N	1:G4:114:ASP:OD1	2.47	0.47
1:G4:145:SER:OG	1:G4:146:GLY:N	2.48	0.47
2:G5:90:GLU:HB2	2:G5:121:ARG:HH22	1.78	0.47
1:G8:156:ARG:NH1	1:G8:160:PRO:O	2.48	0.47
1:G8:316:LEU:HB2	1:G8:366:THR:OG1	2.15	0.47
2:G9:381:SER:OG	2:G9:382:THR:N	2.46	0.47
1:H2:191:GLN:HG3	1:H2:195:ASN:OD1	2.15	0.47
1:H2:374:ILE:HD11	1:H2:422:TYR:CE1	2.50	0.47
1:H4:199:CYS:HB2	1:H4:265:PHE:HD1	1.79	0.47
1:H4:276:ARG:HB2	24:6U:463:THR:HG21	1.97	0.47
2:H5:66:ILE:O	2:H5:66:ILE:HG13	2.15	0.47
1:H6:414:ASN:O	1:H6:418:LEU:HG	2.14	0.47
2:H7:255:PHE:HA	2:H7:259:LEU:HD13	1.97	0.47
1:H8:117:LEU:HA	1:H8:120:VAL:HG12	1.96	0.47
1:I0:219:THR:CG2	24:6X:488:ARG:CG	2.92	0.47
2:I1:4:VAL:HG23	2:I1:134:GLY:O	2.15	0.47
1:I2:77:ARG:HE	1:I2:90:PHE:HE2	1.62	0.47
1:I2:203:ASP:N	1:I2:203:ASP:OD1	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I3:201:ALA:O	2:I3:268:MET:HE2	2.15	0.47
2:I5:11:GLN:OE1	2:I5:15:GLN:NE2	2.47	0.47
1:I8:51:PHE:O	1:I8:62:ARG:NH2	2.48	0.47
2:I9:52:PHE:CZ	2:I9:239:THR:HG21	2.50	0.47
2:I9:88:HIS:CG	2:I9:89:PRO:HD2	2.49	0.47
2:I9:203:MET:C	2:I9:204:LEU:HD12	2.35	0.47
2:I9:216:SER:OG	2:I9:217:LEU:N	2.45	0.47
2:J1:179:THR:O	1:J2:350:LYS:HD2	2.14	0.47
2:J3:204:LEU:HD23	2:J3:231:ILE:HD12	1.95	0.47
1:J4:65:LEU:HD12	1:J4:90:PHE:HE1	1.79	0.47
1:J4:207:LEU:HB3	1:J4:225:LEU:HD22	1.97	0.47
1:J4:285:THR:HG22	1:J4:288:GLU:OE1	2.15	0.47
2:J5:30:ILE:HG12	2:J5:36:MET:HG2	1.95	0.47
2:J5:51:THR:HG21	2:J5:243:ARG:HG2	1.95	0.47
1:J6:107:THR:OG1	1:J6:401:GLU:OE2	2.22	0.47
1:J6:246:LEU:HD22	1:J6:352:SER:HA	1.95	0.47
2:J9:417:GLU:HA	2:J9:420:GLU:HG2	1.97	0.47
1:K0:278:SER:O	1:K0:278:SER:OG	2.31	0.47
2:K1:97:GLU:OE2	2:K1:105:ARG:NH2	2.48	0.47
1:K6:140:GLY:O	1:K6:184:ASN:ND2	2.47	0.47
1:K6:271:THR:OG1	1:K6:365:ALA:HB3	2.14	0.47
2:K7:330:ALA:O	2:K7:334:THR:HG23	2.15	0.47
1:K8:5:VAL:HG12	1:K8:133:PHE:HD1	1.80	0.47
2:K9:405:VAL:HG13	2:K9:418:PHE:HE2	1.79	0.47
2:L1:4:VAL:HG23	2:L1:134:GLY:O	2.15	0.47
2:L1:47:ASP:OD1	2:L1:48:ALA:N	2.47	0.47
2:L1:399:TYR:O	2:L1:402:ARG:NH1	2.48	0.47
2:L3:89:PRO:CG	29:7J:320:PRO:HG3	2.43	0.47
1:L4:344:TRP:CE3	1:L4:345:ILE:HG13	2.49	0.47
1:L4:414:ASN:HA	1:L4:417:ASP:OD2	2.15	0.47
2:L5:287:SER:OG	2:L5:288:VAL:N	2.48	0.47
1:L6:41:ASP:HA	1:L6:44:LEU:HD23	1.96	0.47
1:L6:52:ASN:OD1	1:L6:62:ARG:NH2	2.47	0.47
1:L6:362:LYS:HA	6:4P:169:PHE:CZ	2.50	0.47
2:L7:104:ALA:HB1	2:L7:411:GLU:OE2	2.14	0.47
2:L9:399:TYR:O	2:L9:402:ARG:NH1	2.48	0.47
1:M0:111:GLU:N	1:M0:111:GLU:OE1	2.48	0.47
2:M1:119:LEU:HA	2:M1:122:ILE:HG22	1.95	0.47
1:M2:359:LYS:NZ	30:7K:230:GLN:OE1	2.48	0.47
1:M4:391:ARG:HD3	2:M5:346:TRP:NE1	2.29	0.47
2:M5:70:LEU:HD13	2:M5:110:ILE:HG21	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M5:96:LYS:NZ	37:7Y:98:PHE:HA	2.30	0.47
2:M5:236:SER:O	2:M5:243:ARG:NH2	2.46	0.47
2:M7:65:CYS:SG	2:M7:87:PHE:HE1	2.38	0.47
1:N2:1:MET:SD	1:N2:1:MET:N	2.86	0.47
1:N2:364:SER:OG	1:N2:365:ALA:N	2.48	0.47
2:N5:167:LEU:HD13	2:N5:200:VAL:HB	1.95	0.47
2:N9:68:LEU:HA	2:N9:93:ILE:O	2.15	0.47
1:O0:248:ALA:HA	1:O0:252:LYS:HD2	1.97	0.47
1:O0:270:PHE:HD2	1:O0:273:LEU:HD21	1.79	0.47
2:O3:5:ILE:HG22	2:O3:64:ARG:HB3	1.97	0.47
1:O4:208:TYR:CD1	2:O5:326:LYS:HE2	2.49	0.47
1:O4:391:ARG:HB2	2:O5:346:TRP:CD1	2.50	0.47
2:O7:313:MET:HE1	2:O7:346:TRP:HH2	1.74	0.47
2:O9:296:PHE:CE2	2:O9:335:ILE:HD13	2.50	0.47
1:P4:190:HIS:HD2	1:P4:411:ALA:HA	1.79	0.47
1:P6:219:THR:O	1:P6:219:THR:OG1	2.30	0.47
2:P7:332:VAL:O	2:P7:336:LYS:HG3	2.15	0.47
2:P9:209:ILE:HG23	2:P9:230:LEU:HD11	1.96	0.47
2:P9:300:SER:O	2:P9:300:SER:OG	2.30	0.47
1:Q0:145:SER:OG	1:Q0:188:SER:OG	2.27	0.47
1:Q2:317:PHE:HB3	1:Q2:321:MET:SD	2.55	0.47
2:Q3:167:LEU:HD21	2:Q3:256:GLN:HE22	1.79	0.47
2:Q3:222:PRO:HD2	1:Q4:324:LYS:HE3	1.96	0.47
1:Q4:382:SER:HB2	1:Q4:415:MET:HG2	1.97	0.47
2:Q5:53:PHE:HB3	2:Q5:61:HIS:HB3	1.97	0.47
2:Q5:73:THR:OG1	2:Q5:74:VAL:N	2.46	0.47
1:Q6:78:SER:OG	1:Q6:79:GLY:N	2.48	0.47
1:Q6:175:VAL:O	1:Q6:175:VAL:HG23	2.15	0.47
2:Q9:275:ILE:HG23	2:Q9:368:LEU:HD21	1.95	0.47
2:R1:192:HIS:O	2:R1:192:HIS:ND1	2.42	0.47
2:R3:9:ILE:HD13	2:R3:150:GLY:HA2	1.97	0.47
2:R3:175:PRO:HG2	2:R3:176:GLN:OE1	2.15	0.47
2:R3:250:VAL:HG23	2:R3:254:GLU:HG3	1.96	0.47
2:R5:88:HIS:CD2	2:R5:89:PRO:CD	2.94	0.47
1:R6:165:LEU:HG	1:R6:250:LEU:HD21	1.95	0.47
2:R9:40:LYS:HE3	2:R9:42:ILE:HD11	1.97	0.47
2:R9:45:GLY:HA3	7:4R:257:ARG:NH2	2.30	0.47
2:R9:84:ARG:HH21	33:7Q:172:ARG:HA	1.80	0.47
1:S0:8:GLN:OE1	1:S0:17:GLY:HA3	2.14	0.47
1:S2:69:GLU:HG3	7:4S:3:ARG:O	2.15	0.47
1:S4:171:PRO:O	1:S4:380:ARG:NH2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S5:419:SER:O	2:S5:423:GLU:HG3	2.15	0.47
2:S7:9:ILE:HD13	2:S7:150:GLY:HA2	1.97	0.47
2:S7:287:SER:OG	2:S7:288:VAL:N	2.48	0.47
1:S8:77:ARG:NH1	24:6W:47:GLN:O	2.42	0.47
1:S8:226:ASN:OD1	39:S8:502:GDP:N1	2.45	0.47
1:S8:260:PHE:HB2	1:S8:263:LEU:HG	1.97	0.47
1:S8:292:GLN:HG2	1:S8:298:ASN:ND2	2.30	0.47
2:S9:196:GLU:OE2	2:S9:197:HIS:NE2	2.48	0.47
1:T2:203:ASP:OD1	1:T2:302:ALA:N	2.47	0.47
1:T4:390:ARG:CB	1:T4:390:ARG:HH11	2.28	0.47
1:T6:1:MET:HE1	26:7F:67:GLN:HE21	1.78	0.47
1:T8:383:GLU:OE2	1:T8:384:GLN:HG3	2.15	0.47
2:U1:333:ALA:O	2:U1:337:THR:HG23	2.14	0.47
1:U2:53:GLU:OE2	1:U2:57:GLY:N	2.47	0.47
1:U2:173:PRO:HG2	1:U2:174:LYS:HZ2	1.79	0.47
1:U4:207:LEU:HB3	1:U4:225:LEU:HD22	1.95	0.47
1:U6:107:THR:OG1	1:U6:108:GLU:OE1	2.22	0.47
1:U6:239:CYS:SG	1:U6:240:LEU:HD12	2.55	0.47
1:U6:285:THR:HG22	1:U6:288:GLU:OE2	2.14	0.47
2:U7:56:THR:HB	2:W3:285:GLN:HB2	1.96	0.47
1:U8:208:TYR:HA	1:U8:211:CYS:SG	2.55	0.47
2:U9:79:ARG:O	2:U9:84:ARG:HG2	2.15	0.47
1:V0:137:HIS:ND1	1:V0:138:SER:O	2.46	0.47
2:V1:9:ILE:HD13	2:V1:150:GLY:HA2	1.95	0.47
2:V1:121:ARG:HE	2:V1:125:LEU:HG	1.78	0.47
2:V1:183:GLU:HG3	2:V1:184:PRO:HD3	1.96	0.47
2:V1:187:SER:O	2:V1:191:THR:HG23	2.15	0.47
1:V2:6:HIS:NE2	1:V2:136:CYS:SG	2.87	0.47
1:V2:229:ILE:HG22	1:V2:233:MET:SD	2.55	0.47
1:V6:205:GLU:HG2	1:V6:206:ALA:N	2.30	0.47
1:V6:235:GLY:HA2	1:V6:318:ARG:NH1	2.24	0.47
1:W2:31:ASP:OD1	1:W2:31:ASP:N	2.47	0.47
2:W3:9:ILE:HG22	2:W3:146:GLY:HA2	1.96	0.47
2:W3:91:GLN:NE2	2:W3:125:LEU:HD21	2.29	0.47
2:W3:253:THR:O	2:W3:257:THR:HG23	2.15	0.47
1:W4:135:VAL:O	1:W4:166:THR:HA	2.14	0.47
1:W6:139:LEU:HG	1:W6:168:SER:HB3	1.96	0.47
1:W6:198:GLU:HB3	1:W6:258:ILE:HD11	1.95	0.47
2:W7:251:ASP:OD1	2:W7:252:ILE:N	2.44	0.47
2:X3:83:TYR:HB3	2:X3:86:LEU:HB3	1.96	0.47
2:X3:90:GLU:HB2	2:Y9:283:HIS:CE1	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X3:282:TYR:HA	8:4V:424:LYS:HE2	1.97	0.47
1:X6:67:ASP:N	1:X6:67:ASP:OD1	2.48	0.47
2:X7:53:PHE:HB3	2:X7:61:HIS:HB3	1.96	0.47
1:X8:244:GLY:HA3	1:X8:354:CYS:HA	1.97	0.47
2:X9:34:GLY:HA3	2:X9:60:LYS:NZ	2.30	0.47
2:X9:179:THR:HG21	1:Y0:246:LEU:HD11	1.96	0.47
2:X9:201:ALA:O	2:X9:268:MET:HE2	2.14	0.47
2:X9:417:GLU:OE2	2:X9:417:GLU:N	2.43	0.47
1:Y0:179:VAL:HG13	2:Y1:349:THR:O	2.14	0.47
2:Y1:429:GLU:O	2:Y1:433:GLU:HG2	2.15	0.47
2:Y3:25:CYS:SG	2:Y3:86:LEU:HD11	2.55	0.47
2:Y3:31:GLN:HB2	2:Y3:33:ASP:OD1	2.15	0.47
1:Y4:395:LEU:O	1:Y4:399:THR:HG23	2.15	0.47
2:Y5:51:THR:HG21	2:Y5:243:ARG:HG2	1.96	0.47
2:Y5:157:LEU:HD12	2:Y5:157:LEU:O	2.14	0.47
2:Y5:384:ILE:HA	2:Y5:387:ILE:HD12	1.97	0.47
1:Y8:183:TYR:OH	1:Y8:388:MET:HG2	2.15	0.47
2:Y9:72:PRO:HG3	1:Z0:1:MET:HG3	1.97	0.47
2:Y9:118:ALA:HB3	2:Y9:153:LEU:HD11	1.95	0.47
2:Y9:297:GLU:HG3	2:Y9:298:PRO:HD2	1.97	0.47
1:Z0:6:HIS:O	1:Z0:64:ILE:HD12	2.15	0.47
1:Z0:86:ARG:NH2	1:0G:281:TYR:O	2.47	0.47
1:Z2:8:GLN:OE1	1:Z2:8:GLN:N	2.48	0.47
1:Z2:389:PHE:HZ	1:Z2:405:GLU:HG2	1.79	0.47
2:Z5:240:ALA:HB1	2:Z5:356:ASN:HD22	1.79	0.47
1:Z6:54:ALA:HB3	1:Z6:58:ARG:HB3	1.97	0.47
1:Z8:86:ARG:NH2	1:0O:281:TYR:O	2.48	0.47
1:Z8:130:LEU:HG	1:Z8:132:GLY:N	2.29	0.47
1:Z8:249:ASP:OD2	1:Z8:250:LEU:HD12	2.15	0.47
2:Z9:268:MET:CE	2:Z9:378:ILE:HG22	2.45	0.47
1:0A:31:ASP:OD2	1:0A:33:THR:OG1	2.26	0.47
2:0B:290:GLU:HA	2:0B:293:ASN:OD1	2.15	0.47
2:0F:232:ALA:HA	2:0F:235:ILE:HG22	1.96	0.47
2:0F:352:LYS:NZ	2:0F:353:CYS:O	2.48	0.47
1:0G:166:THR:OG1	1:0G:199:CYS:SG	2.71	0.47
1:0G:334:GLN:HE22	1:0G:347:ASN:H	1.63	0.47
2:0H:90:GLU:HB2	2:0H:121:ARG:HH22	1.79	0.47
2:0H:171:VAL:HG22	2:0H:204:LEU:HD11	1.97	0.47
2:0H:259:LEU:HD21	2:0H:316:CYS:HB2	1.97	0.47
2:0J:167:LEU:HB3	2:0J:169:PHE:CE1	2.49	0.47
2:0J:300:SER:O	2:0J:300:SER:OG	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0K:183:TYR:O	1:0K:187:LEU:HD13	2.15	0.47
1:0K:318:ARG:HA	1:0K:354:CYS:SG	2.55	0.47
2:0L:88:HIS:HB3	2:1B:283:HIS:CE1	2.49	0.47
2:0L:88:HIS:HB3	2:1B:283:HIS:ND1	2.28	0.47
2:0L:290:GLU:HA	2:0L:293:ASN:ND2	2.30	0.47
2:0L:389:SER:O	2:0L:393:HIS:ND1	2.47	0.47
1:0M:183:TYR:O	1:0M:187:LEU:HD13	2.15	0.47
1:0M:206:ALA:O	1:0M:210:ILE:HG13	2.14	0.47
2:0N:290:GLU:HA	2:0N:293:ASN:HD22	1.79	0.47
2:0N:313:MET:SD	2:0N:346:TRP:HH2	2.38	0.47
1:0O:248:ALA:HA	1:0O:252:LYS:HD2	1.95	0.47
1:0O:389:PHE:O	1:0O:392:LYS:NZ	2.30	0.47
2:0P:417:GLU:HA	2:0P:420:GLU:HG2	1.95	0.47
1:0Q:8:GLN:O	1:0Q:66:MET:HB2	2.14	0.47
2:0R:9:ILE:HB	2:0R:139:ASN:HB3	1.97	0.47
2:0R:121:ARG:HD2	2:0R:124:LYS:HE3	1.95	0.47
2:0R:276:ILE:HG23	2:0R:280:LYS:HB3	1.96	0.47
1:0S:53:GLU:HB2	1:0S:59:TYR:CE2	2.49	0.47
1:0U:2:ARG:HE	1:0U:240:LEU:CD2	2.28	0.47
1:0U:273:LEU:H	1:0U:292:GLN:NE2	2.13	0.47
1:1A:385:PHE:HZ	1:1A:408:PHE:HD1	1.63	0.47
2:1B:83:TYR:HB3	2:1B:86:LEU:HB3	1.97	0.47
2:1B:123:ARG:HD2	2:1B:123:ARG:HA	1.74	0.47
2:1D:4:VAL:HG23	2:1D:134:GLY:O	2.14	0.47
2:1D:60:LYS:NZ	2:1T:282:TYR:HA	2.30	0.47
2:1F:212:ILE:O	2:1F:216:SER:OG	2.23	0.47
2:1F:235:ILE:HD13	2:1F:238:LEU:HD21	1.96	0.47
1:1G:337:ASN:HB3	1:1G:340:TYR:HD2	1.80	0.47
2:1H:161:TYR:HB3	2:1H:164:LYS:HD2	1.96	0.47
2:1H:312:TYR:O	2:1H:344:VAL:HG22	2.14	0.47
1:1K:6:HIS:CE1	1:1K:8:GLN:HG2	2.50	0.47
1:1K:139:LEU:HD12	1:1K:170:VAL:HG12	1.97	0.47
1:1K:414:ASN:HA	1:1K:417:ASP:OD2	2.15	0.47
1:1M:51:PHE:O	1:1M:62:ARG:NH2	2.48	0.47
1:1O:135:VAL:HG21	1:1O:152:ILE:HD11	1.95	0.47
2:1P:178:SER:HB3	2:1P:183:GLU:OE2	2.14	0.47
2:1R:4:VAL:HG23	2:1R:134:GLY:O	2.14	0.47
2:1R:57:GLY:HA3	10:5B:156:TYR:CZ	2.50	0.47
2:1T:275:ILE:HD12	2:1T:368:LEU:HD11	1.97	0.47
1:1U:16:ILE:HG22	1:1U:226:ASN:OD1	2.14	0.47
1:1U:100:ASN:HB3	1:1U:103:LYS:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1V:222:PRO:CD	1:1W:324:LYS:HE3	2.45	0.47
1:1W:152:ILE:HG23	1:1W:164:MET:SD	2.54	0.47
2:1X:155:GLU:O	2:1X:158:SER:OG	2.24	0.47
2:1X:212:ILE:O	2:1X:216:SER:OG	2.28	0.47
1:2A:274:THR:OG1	1:2A:279:GLN:OE1	2.24	0.47
2:2B:306:ASP:HB3	2:2B:309:HIS:HD2	1.80	0.47
1:2C:139:LEU:HD12	1:2C:170:VAL:HG12	1.97	0.47
1:2C:177:ASP:O	2:2D:352:LYS:HA	2.14	0.47
1:2C:314:SER:HA	1:2C:350:LYS:O	2.14	0.47
2:2D:100:ALA:HA	1:2E:252:LYS:HE3	1.96	0.47
2:2H:282:TYR:CE1	10:5B:167:ILE:HD11	2.49	0.47
1:2I:139:LEU:HD12	1:2I:170:VAL:HG12	1.96	0.47
1:2K:75:SER:O	1:2K:78:SER:OG	2.32	0.47
1:2K:121:ARG:CZ	38:8C:50:LYS:HG2	2.44	0.47
1:2M:385:PHE:HZ	1:2M:408:PHE:HD1	1.63	0.47
2:2P:426:ALA:O	2:2P:430:LYS:HG2	2.15	0.47
1:2Q:280:GLN:HG3	1:2Q:281:TYR:CD2	2.49	0.47
1:2S:306:ARG:NH2	38:8A:51:GLN:HA	2.25	0.47
2:2T:156:ARG:HA	2:2T:159:VAL:HG12	1.97	0.47
2:2T:204:LEU:HD23	2:2T:302:MET:HB3	1.95	0.47
2:2X:161:TYR:O	2:2X:163:LYS:NZ	2.47	0.47
2:2X:415:GLU:HA	2:2X:418:PHE:HD2	1.78	0.47
1:2Y:161:ASP:OD2	1:2Y:161:ASP:N	2.48	0.47
2:2Z:203:MET:O	2:2Z:204:LEU:HD23	2.14	0.47
2:3B:265:ILE:CD1	2:3B:435:VAL:HG21	2.45	0.47
2:3D:287:SER:OG	2:3D:288:VAL:N	2.46	0.47
2:3F:5:ILE:HD11	2:3F:135:PHE:CE1	2.50	0.47
1:3I:317:PHE:CE2	1:3I:326:VAL:HG13	2.50	0.47
1:3I:404:ASP:HB2	1:3I:406:MET:SD	2.54	0.47
2:3J:3:GLU:HB2	2:3J:129:CYS:SG	2.55	0.47
1:3K:77:ARG:NE	3:4B:19:LEU:HA	2.29	0.47
1:3K:101:TRP:HE3	1:3K:403:MET:HE1	1.80	0.47
1:3K:211:CYS:HA	1:3K:215:LEU:HB2	1.95	0.47
2:3N:14:ILE:HD11	2:3N:74:VAL:HG13	1.96	0.47
1:3O:2:ARG:HH21	1:3O:240:LEU:HA	1.80	0.47
1:3O:116:VAL:HA	1:3O:119:VAL:HG12	1.97	0.47
2:3P:76:ASP:HA	2:3P:79:ARG:HB2	1.96	0.47
1:3Q:53:GLU:OE2	1:3Q:57:GLY:N	2.48	0.47
3:3V:44:ALA:O	3:3V:118:ASN:ND2	2.47	0.47
3:3X:75:ARG:HG2	3:3X:76:PRO:HD2	1.96	0.47
4:3Y:126:ASP:OD1	4:3Y:126:ASP:N	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4B:75:ARG:HG2	3:4B:76:PRO:HD2	1.96	0.47
4:4C:126:ASP:OD1	4:4C:126:ASP:N	2.46	0.47
3:4D:63:SER:OG	3:4D:66:THR:O	2.29	0.47
3:4D:132:ILE:HD11	3:4D:161:PHE:CZ	2.50	0.47
3:4F:75:ARG:HG2	3:4F:76:PRO:HD2	1.96	0.47
4:4I:136:LEU:O	4:4I:140:THR:OG1	2.32	0.47
3:4J:200:ILE:HD12	3:4J:200:ILE:H	1.79	0.47
5:4L:325:MET:HB3	5:4L:329:ARG:HH12	1.79	0.47
5:4M:293:LEU:HD11	28:7X:305:ALA:HB1	1.97	0.47
6:4O:316:GLU:O	6:4O:320:GLU:HG2	2.15	0.47
6:4O:352:ARG:NH1	6:4O:355:GLU:OE1	2.48	0.47
7:4Q:321:LYS:HA	7:4Q:324:GLN:CD	2.35	0.47
10:5B:82:ALA:HA	10:5B:85:ARG:HE	1.79	0.47
10:5C:243:LEU:O	10:5C:247:GLU:HG2	2.15	0.47
10:5C:486:VAL:O	10:5C:491:ARG:NH1	2.39	0.47
11:5E:187:PRO:HA	11:5E:190:VAL:HG12	1.96	0.47
12:5F:271:LEU:HD21	12:7B:23:MET:HG2	1.94	0.47
14:5L:112:SER:CB	14:5L:159:SER:HB2	2.42	0.47
14:5L:451:VAL:HG13	14:5L:462:GLU:HB2	1.95	0.47
14:5L:465:MET:N	14:5L:465:MET:SD	2.88	0.47
14:5M:451:VAL:HG13	14:5M:462:GLU:HB2	1.95	0.47
14:5N:451:VAL:HG13	14:5N:462:GLU:HB2	1.95	0.47
14:5N:489:SER:HB3	14:5N:512:PHE:CD2	2.50	0.47
14:5N:511:THR:HG23	14:5N:512:PHE:N	2.28	0.47
15:5P:56:LYS:NZ	15:5P:249:ASP:OD2	2.48	0.47
15:5P:157:ARG:NH2	15:5P:266:THR:HG23	2.29	0.47
16:5Q:173:ARG:NH1	16:5Q:173:ARG:CG	2.73	0.47
17:5S:132:ASP:N	17:5S:132:ASP:OD1	2.47	0.47
17:5T:132:ASP:OD1	17:5T:132:ASP:N	2.47	0.47
17:5U:132:ASP:OD1	17:5U:132:ASP:N	2.47	0.47
18:5Y:61:LYS:HD2	18:5Y:61:LYS:HA	1.73	0.47
18:6A:82:ASP:N	18:6A:82:ASP:OD1	2.47	0.47
18:6B:82:ASP:N	18:6B:82:ASP:OD1	2.48	0.47
18:6C:82:ASP:N	18:6C:82:ASP:OD1	2.48	0.47
21:6H:44:ILE:CG2	21:6H:162:MET:HB3	2.44	0.47
21:6H:149:LEU:H	21:6H:149:LEU:HD23	1.79	0.47
22:6I:276:LEU:HD23	22:6I:279:LEU:HD12	1.97	0.47
22:6I:291:GLU:HA	22:6I:294:LEU:HG	1.96	0.47
22:6N:124:PHE:HB2	22:6N:127:THR:HG23	1.96	0.47
22:6O:286:VAL:O	22:6O:286:VAL:HG12	2.15	0.47
23:6Q:24:LYS:HG2	23:6Q:25:GLU:HG2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:6R:4:LYS:HA	23:6R:4:LYS:HD2	1.45	0.47
24:6T:107:VAL:HG12	24:6T:108:GLU:N	2.26	0.47
24:6T:536:ASP:HB3	24:6T:539:THR:HG23	1.97	0.47
24:6Z:505:LYS:NZ	24:6Z:506:PRO:HD2	2.30	0.47
26:7E:50:SER:HA	26:7E:56:LEU:HD23	1.96	0.47
32:7P:114:THR:HG22	32:7P:117:GLN:OE1	2.15	0.47
34:7R:159:ASP:OD2	35:7T:108:LEU:HD11	2.14	0.47
36:7W:22:ALA:HA	36:7W:25:THR:HG22	1.95	0.47
38:8A:104:LYS:HE2	38:8A:107:GLU:OE1	2.15	0.47
2:2:11:GLN:HB3	41:3:501:GTP:PA	2.54	0.47
2:8:44:GLY:HA3	24:6W:124:TYR:OH	2.13	0.47
1:A7:360:GLY:HA3	24:6T:110:ASN:HA	1.96	0.47
2:F1:56:THR:HA	2:G7:285:GLN:HG2	1.96	0.47
2:F7:55:GLU:O	2:H3:285:GLN:NE2	2.48	0.47
2:G1:276:ILE:HG23	2:G1:280:LYS:HB2	1.96	0.47
2:G1:290:GLU:OE1	2:G1:290:GLU:N	2.31	0.47
1:G2:177:ASP:N	1:G2:181:GLU:OE2	2.47	0.47
2:G3:205:ASP:OD2	2:G3:207:GLU:N	2.48	0.47
2:G3:239:THR:HG23	2:G3:243:ARG:HE	1.80	0.47
2:G3:264:ARG:NH2	2:G3:431:ASP:OD2	2.47	0.47
1:G4:177:ASP:OD1	39:G4:502:GDP:H3'	2.15	0.47
1:G6:91:VAL:HG11	1:G6:116:VAL:HG22	1.97	0.47
2:G7:198:THR:HG21	2:G7:201:ALA:HB2	1.97	0.47
2:G9:9:ILE:HG13	2:G9:139:ASN:HB3	1.96	0.47
2:G9:279:GLU:HG2	2:G9:280:LYS:H	1.79	0.47
2:G9:317:LEU:HB3	2:G9:319:TYR:CE1	2.50	0.47
2:H3:85:GLN:O	2:I9:283:HIS:HE1	1.97	0.47
2:H3:98:ASP:OD1	2:H3:99:ALA:N	2.48	0.47
1:H4:371:SER:OG	1:H4:372:THR:N	2.48	0.47
1:H4:375:GLN:HB2	1:H4:419:VAL:HG13	1.96	0.47
1:H6:67:ASP:OD2	1:H6:68:LEU:N	2.48	0.47
1:H8:391:ARG:HH22	2:H9:435:VAL:HA	1.79	0.47
1:I0:219:THR:O	1:I0:219:THR:OG1	2.31	0.47
2:I1:88:HIS:CD2	2:I1:89:PRO:CD	2.96	0.47
2:I1:379:SER:OG	2:I1:380:ASN:N	2.45	0.47
1:I2:252:LYS:CA	1:I2:255:VAL:HG12	2.36	0.47
2:I3:75:VAL:HG21	2:I3:94:SER:HB2	1.96	0.47
1:I4:20:PHE:O	1:I4:24:VAL:HG23	2.15	0.47
1:I4:290:THR:HA	1:I4:293:MET:HB2	1.95	0.47
2:I5:174:SER:OG	2:I5:207:GLU:HB2	2.15	0.47
1:J0:173:PRO:HD2	1:J0:380:ARG:CZ	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J0:221:THR:OG1	1:J0:222:PHE:N	2.47	0.47
1:J2:354:CYS:SG	1:J2:355:ASP:N	2.87	0.47
1:J6:3:GLU:HB2	1:J6:130:LEU:HA	1.96	0.47
2:J7:129:CYS:SG	2:J7:130:THR:N	2.88	0.47
2:J9:346:TRP:CZ3	2:J9:347:CYS:HB2	2.50	0.47
1:K0:382:SER:HB3	1:K0:415:MET:HG2	1.96	0.47
2:K1:210:TYR:HE1	2:K1:227:LEU:HD11	1.80	0.47
2:K1:312:TYR:HB2	2:K1:343:PHE:CD1	2.50	0.47
2:K1:383:ALA:HA	2:K1:386:GLU:OE1	2.15	0.47
1:K4:117:LEU:HA	1:K4:120:VAL:HG12	1.96	0.47
1:K4:183:TYR:OH	1:K4:388:MET:HB3	2.15	0.47
2:K7:250:VAL:HG23	2:K7:254:GLU:HG3	1.95	0.47
1:L0:3:GLU:HB2	1:L0:130:LEU:HD13	1.97	0.47
2:L1:121:ARG:O	2:L1:121:ARG:HD2	2.15	0.47
1:L4:274:THR:OG1	1:L4:279:GLN:OE1	2.30	0.47
1:M2:239:CYS:SG	1:M2:248:ALA:N	2.79	0.47
2:M3:35:GLN:HA	2:M3:59:GLY:O	2.14	0.47
2:M3:223:THR:HA	1:M4:323:THR:HG22	1.95	0.47
1:M4:6:HIS:NE2	1:M4:136:CYS:SG	2.77	0.47
1:M8:177:ASP:N	1:M8:181:GLU:OE2	2.48	0.47
1:M8:253:LEU:HD23	1:M8:253:LEU:HA	1.84	0.47
2:M9:333:ALA:O	2:M9:337:THR:HG23	2.15	0.47
2:N1:342:GLN:HG3	2:N1:342:GLN:O	2.14	0.47
1:N2:245:GLN:CG	29:7J:110:THR:HG21	2.44	0.47
1:N2:283:ALA:O	1:N2:288:GLU:HG2	2.15	0.47
1:N2:322:SER:HB3	1:N2:325:GLU:HB2	1.96	0.47
1:N2:395:LEU:O	1:N2:399:THR:HG23	2.15	0.47
1:N6:253:LEU:HD23	1:N6:253:LEU:HA	1.75	0.47
2:O1:27:GLU:CD	2:O1:243:ARG:HH12	2.18	0.47
2:O3:420:GLU:O	2:O3:423:GLU:HG3	2.15	0.47
2:O9:271:SER:HB2	2:O9:377:MET:HE2	1.97	0.47
1:P4:404:ASP:OD1	1:P4:405:GLU:N	2.48	0.47
2:Q1:3:GLU:HB2	2:Q1:129:CYS:SG	2.55	0.47
2:Q3:86:LEU:HG	2:Q3:86:LEU:O	2.14	0.47
1:Q4:207:LEU:HB3	1:Q4:225:LEU:HD22	1.97	0.47
1:Q4:213:ARG:NH1	6:4P:52:TYR:OH	2.48	0.47
2:Q5:115:VAL:HG22	2:Q5:119:LEU:HD23	1.96	0.47
2:Q5:155:GLU:O	2:Q5:159:VAL:HG23	2.14	0.47
2:Q9:155:GLU:O	2:Q9:158:SER:OG	2.30	0.47
2:R3:90:GLU:OE1	2:R3:90:GLU:N	2.44	0.47
1:R4:289:LEU:HD23	1:R4:365:ALA:HB2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R4:358:PRO:HG2	1:R4:361:LEU:HB2	1.95	0.47
2:R7:164:LYS:HD3	2:R7:164:LYS:HA	1.74	0.47
1:S0:67:ASP:N	1:S0:67:ASP:OD1	2.47	0.47
1:S0:238:CYS:SG	1:S0:318:ARG:NE	2.87	0.47
2:S5:3:GLU:HB2	2:S5:129:CYS:SG	2.55	0.47
1:S8:172:SER:OG	1:S8:173:PRO:HD2	2.14	0.47
1:T0:144:GLY:N	39:T0:501:GDP:O1B	2.41	0.47
2:T1:132:LEU:HD23	2:T1:164:LYS:HD3	1.97	0.47
1:T6:324:LYS:HE2	17:5U:38:PHE:HE1	1.78	0.47
2:T7:88:HIS:HB3	2:T7:91:GLN:HG3	1.97	0.47
1:T8:19:LYS:O	1:T8:23:VAL:HG23	2.15	0.47
1:U2:293:MET:HG3	1:U2:367:PHE:HB2	1.95	0.47
2:U3:88:HIS:HB3	2:V9:283:HIS:CG	2.50	0.47
2:U3:223:THR:OG1	2:U3:224:TYR:N	2.48	0.47
1:U6:50:TYR:OH	1:U6:237:THR:HG21	2.14	0.47
1:U6:68:LEU:HB3	1:U6:96:GLY:HA2	1.97	0.47
1:U8:155:ILE:HG22	1:U8:164:MET:HE1	1.96	0.47
2:U9:187:SER:O	2:U9:191:THR:HG23	2.14	0.47
2:V1:90:GLU:HG3	2:V1:121:ARG:NH1	2.28	0.47
1:V2:114:ASP:N	1:V2:114:ASP:OD1	2.47	0.47
1:V6:330:MET:HA	1:V6:333:VAL:HG12	1.97	0.47
1:V8:175:VAL:HG21	1:V8:204:ASN:HB2	1.96	0.47
2:V9:331:SER:O	2:V9:334:THR:OG1	2.24	0.47
1:W2:107:THR:OG1	1:W2:401:GLU:OE2	2.12	0.47
2:W3:276:ILE:HD11	2:W3:284:GLU:HG2	1.96	0.47
2:W5:274:PRO:HD3	2:W5:374:ALA:HA	1.97	0.47
1:W6:170:VAL:HG22	1:W6:202:LEU:O	2.15	0.47
2:W7:21:TRP:CZ3	2:W7:63:PRO:HB3	2.49	0.47
2:W9:223:THR:OG1	1:X0:245:GLN:NE2	2.47	0.47
2:W9:331:SER:O	2:W9:334:THR:OG1	2.23	0.47
1:X0:114:ASP:N	1:X0:114:ASP:OD1	2.47	0.47
2:X7:253:THR:O	2:X7:257:THR:HG23	2.14	0.47
2:Y3:205:ASP:OD2	2:Y3:207:GLU:N	2.47	0.47
2:Y5:52:PHE:CE2	2:Y5:243:ARG:HD3	2.50	0.47
2:Y5:311:LYS:HG2	2:Y5:342:GLN:HG3	1.96	0.47
1:Y6:237:THR:O	1:Y6:241:ARG:NE	2.48	0.47
1:Y8:178:THR:HG22	2:Y9:258:ASN:HD21	1.80	0.47
1:Y8:326:VAL:HG12	1:Y8:330:MET:CE	2.45	0.47
2:Z3:75:VAL:O	2:Z3:79:ARG:HG3	2.14	0.47
2:Z5:305:CYS:HB3	2:Z5:387:ILE:HD11	1.96	0.47
1:Z6:51:PHE:HB3	1:Z6:59:TYR:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z8:177:ASP:OD2	39:Z8:501:GDP:H3'	2.14	0.47
1:0A:68:LEU:HB3	1:0A:96:GLY:HA2	1.97	0.47
1:0A:186:THR:OG1	1:0A:187:LEU:HD12	2.15	0.47
1:0C:114:ASP:N	1:0C:114:ASP:OD1	2.47	0.47
1:0G:396:HIS:CE1	1:0G:397:TRP:CE2	3.03	0.47
1:0O:314:SER:HA	1:0O:350:LYS:O	2.14	0.47
2:0P:234:VAL:HG22	2:0P:272:TYR:CD1	2.49	0.47
1:0Q:239:CYS:SG	1:0Q:248:ALA:N	2.79	0.47
1:0S:66:MET:HB3	1:0S:147:MET:CE	2.45	0.47
1:0U:180:VAL:HG23	1:0U:184:ASN:ND2	2.26	0.47
1:0U:262:ARG:NH2	1:0U:417:ASP:OD1	2.48	0.47
2:0X:362:VAL:HG22	2:0X:370:LYS:HE2	1.96	0.47
2:1D:434:GLU:CD	2:1D:434:GLU:C	2.72	0.47
1:1G:210:ILE:O	1:1G:214:THR:OG1	2.25	0.47
1:1G:271:THR:OG1	1:1G:272:PRO:HA	2.15	0.47
2:1L:205:ASP:OD1	2:1L:303:VAL:HG13	2.15	0.47
2:1L:406:HIS:HA	2:1L:409:VAL:HG22	1.96	0.47
2:1R:192:HIS:HD2	2:1R:421:ALA:HA	1.79	0.47
1:1S:275:SER:O	1:1S:279:GLN:HG3	2.15	0.47
2:1Z:23:LEU:O	2:1Z:26:LEU:HG	2.14	0.47
2:1Z:83:TYR:HB3	2:1Z:86:LEU:HB3	1.96	0.47
2:1Z:262:TYR:HB3	2:1Z:265:ILE:HB	1.97	0.47
1:2A:391:ARG:NH2	2:2B:346:TRP:HB2	2.30	0.47
2:2B:116:ASP:HB2	38:8A:73:TRP:CZ3	2.50	0.47
2:2F:156:ARG:HA	2:2F:159:VAL:HG12	1.97	0.47
1:2I:22:GLU:HG2	1:2I:81:TYR:CD1	2.49	0.47
1:2I:111:GLU:N	1:2I:111:GLU:OE1	2.48	0.47
1:2K:113:ILE:HA	1:2K:116:VAL:HG22	1.96	0.47
1:2M:274:THR:OG1	1:2M:282:ARG:NH1	2.46	0.47
2:2T:214:ARG:HH22	38:8A:19:PHE:H	1.63	0.47
2:2V:312:TYR:HD1	2:2V:381:SER:HB2	1.80	0.47
1:2Y:306:ARG:HD2	38:8C:96:GLY:HA2	1.90	0.47
1:3A:117:LEU:HA	1:3A:120:VAL:HG12	1.97	0.47
2:3B:54:SER:HB3	2:3B:64:ARG:NH1	2.30	0.47
2:3B:220:GLU:HG2	2:3B:221:ARG:HG3	1.96	0.47
2:3D:107:HIS:CD2	2:3D:152:LEU:HB2	2.50	0.47
2:3F:109:THR:OG1	2:3F:411:GLU:OE2	2.30	0.47
2:3L:195:LEU:HD23	2:3L:195:LEU:HA	1.71	0.47
2:3P:14:ILE:HD11	2:3P:74:VAL:HG13	1.96	0.47
1:3S:314:SER:HB3	1:3S:368:ILE:HG23	1.96	0.47
2:3T:21:TRP:CZ2	2:3T:65:CYS:HB2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3T:202:VAL:HG22	2:3T:378:ILE:HD11	1.97	0.47
2:3T:414:GLU:HG2	2:3T:416:GLY:H	1.79	0.47
3:3Z:132:ILE:HD11	3:3Z:161:PHE:CZ	2.50	0.47
3:4B:132:ILE:HD11	3:4B:161:PHE:CZ	2.50	0.47
4:4C:136:LEU:O	4:4C:140:THR:OG1	2.32	0.47
4:4G:136:LEU:O	4:4G:140:THR:OG1	2.32	0.47
6:4O:251:GLU:HA	6:4O:254:ASP:OD2	2.14	0.47
7:4U:187:THR:HG21	31:7N:78:HIS:NE2	2.30	0.47
8:4W:248:ALA:HA	8:4W:251:ARG:HD2	1.96	0.47
10:5D:231:GLN:O	10:5D:235:ARG:HG3	2.15	0.47
13:5K:18:ARG:HB3	24:6Z:38:GLY:HA2	1.97	0.47
14:5M:5:LEU:HD11	14:5M:623:ASP:O	2.15	0.47
14:5M:465:MET:N	14:5M:465:MET:SD	2.88	0.47
14:5N:5:LEU:HD11	14:5N:623:ASP:O	2.15	0.47
14:5N:36:SER:HB2	14:5N:57:ASP:O	2.15	0.47
14:5N:465:MET:N	14:5N:465:MET:SD	2.88	0.47
15:5O:227:TYR:CD1	15:5O:227:TYR:C	2.86	0.47
15:5P:327:ALA:HA	15:5P:343:LEU:HD21	1.95	0.47
17:5S:230:GLU:OE2	17:5S:231:ARG:N	2.48	0.47
17:5U:230:GLU:OE2	17:5U:231:ARG:N	2.48	0.47
18:5X:180:ARG:CG	18:5X:180:ARG:NH2	2.73	0.47
18:5X:183:LEU:HG	18:5X:189:TRP:CZ3	2.50	0.47
18:5Y:82:ASP:N	18:5Y:82:ASP:OD1	2.48	0.47
18:6D:82:ASP:N	18:6D:82:ASP:OD1	2.48	0.47
19:6E:15:ASP:OD1	19:6E:43:SER:HB3	2.15	0.47
19:6E:77:GLN:OE1	37:7Y:47:ASN:HB2	2.15	0.47
22:6P:190:LEU:HG	22:6P:191:PHE:CD2	2.49	0.47
23:6Q:69:GLN:H	23:6Q:69:GLN:CD	2.15	0.47
23:6R:69:GLN:H	23:6R:69:GLN:CD	2.15	0.47
24:6T:372:ASP:O	24:6T:375:THR:OG1	2.22	0.47
24:6T:434:ASP:OD2	24:6T:437:LYS:HB3	2.15	0.47
24:6V:274:ARG:HD3	24:6V:295:HIS:HE1	1.80	0.47
24:6W:183:ASP:OD1	24:6W:184:ALA:N	2.47	0.47
24:6W:299:GLU:HG3	24:6W:300:ASP:CG	2.34	0.47
24:6Y:345:ASP:OD2	24:6Y:346:GLN:N	2.48	0.47
24:6Z:299:GLU:HG3	24:6Z:300:ASP:CG	2.35	0.47
27:7G:75:LYS:HA	27:7G:78:THR:HG22	1.97	0.47
30:7K:383:ARG:HD3	30:7K:387:GLU:OE2	2.15	0.47
33:7Q:139:GLU:HG3	33:7Q:140:TYR:H	1.80	0.47
37:7Y:92:TYR:OH	37:7Y:108:PRO:HD2	2.15	0.47
38:8A:73:TRP:CD1	38:8A:75:SER:HB2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:8A:93:LYS:HD2	38:8A:93:LYS:C	2.35	0.47
38:8C:206:PRO:HG2	38:8C:209:HIS:CE1	2.50	0.47
1:A1:333:VAL:CG2	3:4F:67:LEU:HD13	2.44	0.47
1:A7:280:GLN:NE2	24:6T:104:GLU:OE2	2.48	0.47
2:D5:280:LYS:NZ	18:6C:166:HIS:HB3	2.30	0.47
1:F6:219:THR:N	24:6T:418:ASP:OD1	2.48	0.47
2:G1:11:GLN:NE2	1:G2:245:GLN:O	2.37	0.47
1:G4:309:ARG:NH1	1:G4:339:SER:O	2.47	0.47
2:G9:90:GLU:HB2	2:I5:283:HIS:CE1	2.49	0.47
1:H2:257:LEU:HD21	1:H2:314:SER:HB3	1.97	0.47
2:H3:90:GLU:HB3	2:H3:121:ARG:CZ	2.44	0.47
1:H4:135:VAL:O	1:H4:166:THR:HA	2.15	0.47
2:H5:379:SER:OG	2:H5:380:ASN:N	2.48	0.47
1:H8:7:ILE:HB	1:H8:135:VAL:HG22	1.95	0.47
2:H9:306:ASP:HB3	2:H9:309:HIS:HD2	1.80	0.47
2:I1:5:ILE:HG22	2:I1:64:ARG:HB3	1.97	0.47
1:I4:177:ASP:O	2:I5:352:LYS:HA	2.15	0.47
1:I4:414:ASN:HA	1:I4:417:ASP:OD2	2.15	0.47
2:I9:151:SER:HB2	2:I9:193:SER:OG	2.15	0.47
2:I9:387:ILE:HG12	2:I9:390:ARG:HH22	1.80	0.47
1:J0:49:VAL:HG11	1:J0:241:ARG:HG2	1.97	0.47
2:J1:312:TYR:HB2	2:J1:343:PHE:CD1	2.50	0.47
1:J4:268:VAL:HG23	1:J4:300:MET:HB2	1.96	0.47
2:J5:223:THR:OG1	2:J5:224:TYR:N	2.48	0.47
2:J7:201:ALA:O	2:J7:268:MET:HE2	2.14	0.47
2:J9:287:SER:OG	2:J9:288:VAL:N	2.48	0.47
2:K1:22:GLU:O	2:K1:26:LEU:HG	2.14	0.47
2:K5:261:PRO:HG3	2:K5:313:MET:HE2	1.97	0.47
1:L0:117:LEU:HD11	1:L0:154:LYS:HB3	1.97	0.47
2:L1:387:ILE:HG12	2:L1:390:ARG:HH22	1.80	0.47
1:L4:190:HIS:CD2	1:L4:414:ASN:HB2	2.50	0.47
1:L4:397:TRP:CH2	2:L5:256:GLN:HB3	2.50	0.47
2:L7:237:SER:HA	2:L7:320:ARG:HD2	1.96	0.47
2:M1:2:ARG:HA	2:M1:133:GLN:HE21	1.80	0.47
1:M2:208:TYR:CE1	1:M2:225:LEU:HD11	2.50	0.47
2:M3:278:ALA:HA	2:M3:369:ALA:HB2	1.97	0.47
2:M5:222:PRO:HD2	1:M6:324:LYS:HE3	1.97	0.47
1:M6:49:VAL:HG11	1:M6:241:ARG:HG2	1.96	0.47
1:M8:139:LEU:HG	1:M8:168:SER:HB3	1.97	0.47
2:N3:121:ARG:NH1	2:N3:124:LYS:HG3	2.29	0.47
2:N3:312:TYR:HD1	2:N3:381:SER:HB2	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N3:313:MET:HB2	2:N3:380:ASN:HB3	1.97	0.47
2:N7:330:ALA:O	2:N7:334:THR:HG23	2.14	0.47
2:N9:81:GLY:O	2:N9:84:ARG:NH1	2.48	0.47
1:O0:202:LEU:HD23	1:O0:229:ILE:HG12	1.97	0.47
2:O3:116:ASP:OD1	2:O3:117:LEU:N	2.44	0.47
1:O4:171:PRO:O	1:O4:380:ARG:NH2	2.48	0.47
2:P3:394:LYS:HB2	1:P4:346:PRO:HG3	1.97	0.47
1:P4:58:ARG:HD3	1:R0:280:GLN:HE22	1.80	0.47
1:P6:5:VAL:HB	1:P6:133:PHE:HD1	1.79	0.47
1:P6:207:LEU:HB3	1:P6:225:LEU:HD22	1.96	0.47
2:P7:51:THR:HG21	2:P7:243:ARG:HG2	1.97	0.47
2:P7:398:MET:HG2	1:P8:345:ILE:HD13	1.97	0.47
2:P9:66:ILE:O	2:P9:66:ILE:HG13	2.15	0.47
1:Q0:311:LEU:HD23	1:Q0:311:LEU:HA	1.72	0.47
1:Q2:128:ASP:OD1	1:Q2:128:ASP:N	2.44	0.47
1:Q8:170:VAL:HG12	1:Q8:202:LEU:O	2.14	0.47
2:Q9:69:ASP:OD2	2:Q9:71:GLU:N	2.47	0.47
1:R2:25:SER:O	1:R2:30:ILE:HG12	2.14	0.47
1:R2:208:TYR:CE1	1:R2:225:LEU:HD11	2.50	0.47
2:R3:205:ASP:OD2	2:R3:303:VAL:HG13	2.15	0.47
1:S0:173:PRO:HD2	1:S0:380:ARG:CZ	2.45	0.47
1:S2:164:MET:O	1:S2:197:ASP:HB2	2.15	0.47
2:T5:344:VAL:HG13	2:T5:347:CYS:H	1.79	0.47
1:T6:222:PHE:CD2	2:T7:247:ALA:HB1	2.50	0.47
1:T6:278:SER:O	1:T6:278:SER:OG	2.30	0.47
1:T8:67:ASP:N	1:T8:67:ASP:OD1	2.47	0.47
1:T8:117:LEU:HB3	1:T8:121:ARG:HH22	1.80	0.47
1:U6:377:MET:O	1:U6:381:VAL:HG23	2.15	0.47
1:V0:170:VAL:HG12	1:V0:202:LEU:O	2.14	0.47
1:V0:397:TRP:HE1	2:V1:260:VAL:HG23	1.80	0.47
2:V1:89:PRO:HG2	2:W7:279:GLU:OE1	2.15	0.47
1:W2:100:ASN:HB3	1:W2:103:LYS:HB2	1.96	0.47
1:W4:309:ARG:NH1	1:W4:339:SER:O	2.47	0.47
1:W6:178:THR:HG23	1:W6:181:GLU:HG3	1.97	0.47
1:W8:32:PRO:HD3	1:W8:81:TYR:CZ	2.50	0.47
2:W9:70:LEU:CD1	2:W9:95:GLY:HA3	2.45	0.47
1:X4:178:THR:HA	2:X5:352:LYS:HD3	1.97	0.47
1:X6:33:THR:O	1:X6:58:ARG:NH2	2.47	0.47
1:X8:330:MET:HB3	1:X8:349:VAL:HG11	1.96	0.47
1:Y0:386:THR:O	1:Y0:390:ARG:HG3	2.15	0.47
1:Y2:24:VAL:HG21	1:Y2:50:TYR:HD2	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y2:91:VAL:HG21	1:Y2:119:VAL:HG21	1.96	0.47
1:Y2:273:LEU:H	1:Y2:292:GLN:NE2	2.12	0.47
1:Y4:317:PHE:HB3	1:Y4:321:MET:HE3	1.96	0.47
1:Z0:294:TRP:CG	1:Z0:333:VAL:HG21	2.50	0.47
2:Z3:15:GLN:HB3	2:Z3:228:ASN:ND2	2.27	0.47
2:Z3:21:TRP:CH2	2:Z3:63:PRO:HB3	2.50	0.47
2:Z3:139:ASN:O	2:Z3:171:VAL:HG23	2.15	0.47
1:Z6:31:ASP:OD2	1:Z6:33:THR:OG1	2.24	0.47
2:0B:55:GLU:OE2	2:0B:59:GLY:N	2.47	0.47
2:0B:288:VAL:HG13	2:0B:319:TYR:HE2	1.79	0.47
1:0E:204:ASN:OD1	39:0E:501:GDP:O2'	2.33	0.47
1:0G:39:ASP:OD1	1:0G:39:ASP:N	2.42	0.47
2:0H:72:PRO:HG3	1:0I:1:MET:HG3	1.96	0.47
1:0M:229:ILE:O	1:0M:233:MET:HG3	2.14	0.47
1:0O:270:PHE:N	1:0O:298:ASN:OD1	2.47	0.47
2:0R:65:CYS:SG	2:0R:66:ILE:N	2.87	0.47
1:0U:210:ILE:O	1:0U:214:THR:OG1	2.22	0.47
1:0Y:21:TRP:HA	1:0Y:24:VAL:HG22	1.97	0.47
2:0Z:194:LEU:O	2:0Z:198:THR:HG22	2.14	0.47
2:1D:402:ARG:HA	2:1D:402:ARG:HD3	1.72	0.47
1:1E:45:GLU:HG2	1:1E:46:ARG:HG2	1.97	0.47
1:1E:135:VAL:HG12	1:1E:137:HIS:HD2	1.80	0.47
1:1G:392:LYS:HB3	1:1G:395:LEU:HD22	1.97	0.47
1:1K:334:GLN:HE22	1:1K:348:ASN:H	1.61	0.47
1:1O:213:ARG:NE	1:1O:297:LYS:HZ2	2.12	0.47
1:1O:275:SER:O	1:1O:279:GLN:HG3	2.15	0.47
2:1T:71:GLU:HB3	2:1T:98:ASP:OD2	2.15	0.47
1:1U:68:LEU:HB3	1:1U:96:GLY:HA2	1.97	0.47
1:1U:327:ASP:OD1	1:1U:328:GLU:N	2.48	0.47
2:1V:333:ALA:O	2:1V:337:THR:HG23	2.15	0.47
2:1V:387:ILE:HG12	2:1V:390:ARG:HH22	1.79	0.47
1:1W:31:ASP:OD1	1:1W:35:THR:N	2.41	0.47
2:1X:333:ALA:O	2:1X:337:THR:HG23	2.15	0.47
1:2A:170:VAL:HG22	1:2A:202:LEU:O	2.15	0.47
2:2B:290:GLU:HA	2:2B:293:ASN:HD22	1.78	0.47
2:2F:289:ALA:O	2:2F:293:ASN:ND2	2.48	0.47
2:2H:336:LYS:O	2:2H:339:ARG:NH2	2.48	0.47
1:2Q:69:GLU:OE2	1:2Q:96:GLY:HA2	2.15	0.47
1:2Q:337:ASN:OD1	38:8A:97:PHE:HD1	1.97	0.47
2:2T:274:PRO:HB2	2:2T:276:ILE:HG12	1.96	0.47
1:2Y:148:GLY:O	1:2Y:152:ILE:HG12	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3B:277:SER:HB3	2:3B:279:GLU:OE2	2.15	0.47
1:3C:86:ARG:NH1	1:3C:89:ASN:OD1	2.44	0.47
1:3C:148:GLY:O	1:3C:152:ILE:HG12	2.14	0.47
2:3D:156:ARG:HA	2:3D:159:VAL:HG12	1.97	0.47
1:3G:244:GLY:H	1:3G:247:ASN:HD21	1.63	0.47
1:3O:53:GLU:HG2	1:3O:59:TYR:CE1	2.49	0.47
1:3O:404:ASP:OD2	1:3O:405:GLU:N	2.47	0.47
1:3Q:167:PHE:CZ	1:3Q:233:MET:HG2	2.49	0.47
1:3Q:330:MET:HA	1:3Q:333:VAL:HG12	1.97	0.47
2:3T:425:LEU:C	2:3T:425:LEU:CD2	2.81	0.47
3:3V:132:ILE:HD11	3:3V:161:PHE:CZ	2.50	0.47
3:3X:132:ILE:HD11	3:3X:161:PHE:CZ	2.50	0.47
3:4F:132:ILE:HD11	3:4F:161:PHE:CZ	2.50	0.47
3:4H:132:ILE:HD11	3:4H:161:PHE:CZ	2.50	0.47
5:4L:253:ARG:O	5:4L:257:LYS:HG3	2.15	0.47
5:4L:260:ALA:O	5:4L:263:LEU:HG	2.15	0.47
5:4M:141:ASP:OD2	5:4M:142:GLU:N	2.48	0.47
5:4M:250:VAL:O	5:4M:254:GLU:HG2	2.15	0.47
5:4M:320:GLN:HB3	28:7X:428:LEU:CD1	2.44	0.47
7:4R:191:GLU:OE1	24:6X:16:VAL:HG21	2.14	0.47
7:4R:327:ARG:O	7:4R:330:GLU:HG3	2.15	0.47
7:4S:42:LYS:HB3	7:4S:46:GLN:NE2	2.30	0.47
9:4Y:355:ALA:O	9:4Y:358:THR:HG22	2.14	0.47
9:4Y:392:LYS:HD3	9:4Y:392:LYS:HA	1.76	0.47
9:4Z:188:THR:O	9:4Z:191:GLU:HG3	2.15	0.47
10:5B:82:ALA:O	10:5B:86:GLU:HG2	2.15	0.47
10:5C:338:LYS:HB3	10:5C:338:LYS:HE3	1.73	0.47
11:5E:112:ARG:HA	11:5E:112:ARG:HD2	1.30	0.47
12:5F:207:ASP:OD1	12:5F:207:ASP:N	2.47	0.47
14:5L:5:LEU:HD11	14:5L:623:ASP:O	2.15	0.47
14:5M:36:SER:HB2	14:5M:57:ASP:O	2.15	0.47
14:5N:205:ASN:N	14:5N:205:ASN:OD1	2.48	0.47
15:5O:34:GLU:OE2	15:5O:49:ARG:HA	2.15	0.47
15:5O:308:ALA:HB3	15:5O:372:PHE:CE2	2.50	0.47
17:5S:30:LYS:H	17:5S:30:LYS:HG3	1.44	0.47
18:5X:82:ASP:N	18:5X:82:ASP:OD1	2.48	0.47
18:5X:183:LEU:HD23	18:5X:191:VAL:HG11	1.97	0.47
18:5Z:82:ASP:N	18:5Z:82:ASP:OD1	2.48	0.47
18:5Z:183:LEU:HD23	18:5Z:191:VAL:HG11	1.97	0.47
18:6C:183:LEU:HD23	18:6C:191:VAL:HG11	1.97	0.47
18:6D:183:LEU:HG	18:6D:189:TRP:CZ3	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:6F:113:ARG:HH22	20:6F:247:TYR:CB	2.27	0.47
20:6F:197:PHE:O	20:6F:200:VAL:HG12	2.15	0.47
22:6J:20:TYR:CZ	22:6J:22:GLY:HA3	2.49	0.47
22:6K:122:ALA:HB1	22:6K:127:THR:OG1	2.15	0.47
24:6U:124:TYR:CE2	24:6U:150:ARG:HG3	2.50	0.47
24:6V:481:LEU:HB3	24:6V:500:ARG:HB3	1.97	0.47
24:6X:183:ASP:OD1	24:6X:184:ALA:N	2.47	0.47
24:6X:444:ILE:C	24:6X:445:ILE:CD1	2.77	0.47
24:6Z:273:LEU:HD11	24:6Z:298:LEU:HD21	1.97	0.47
31:7M:29:GLU:HG3	31:7M:30:TYR:N	2.30	0.47
34:7R:205:LEU:HD22	35:7T:160:ILE:HD13	1.96	0.47
28:7X:317:GLU:O	28:7X:320:THR:OG1	2.28	0.47
38:8B:8:GLU:CD	38:8B:21:LYS:HD3	2.36	0.47
1:9:204:ASN:OD1	39:9:501:GDP:O2'	2.20	0.47
2:B0:80:THR:HG22	18:5Y:169:LYS:O	2.14	0.47
2:E3:369:ALA:HB1	22:6J:82:LEU:HD13	1.96	0.47
1:G2:128:ASP:OD1	1:G2:128:ASP:N	2.48	0.47
2:G3:269:LEU:HG	2:G3:384:ILE:HD11	1.97	0.47
1:G4:378:PHE:HA	1:G4:381:VAL:HG12	1.96	0.47
1:G8:173:PRO:HG2	1:G8:380:ARG:HH21	1.80	0.47
2:H5:69:ASP:OD1	2:H5:70:LEU:N	2.47	0.47
1:H8:99:ASN:ND2	1:H8:178:THR:HG21	2.29	0.47
1:H8:203:ASP:OD2	1:H8:301:CYS:HA	2.15	0.47
2:I5:9:ILE:HG13	2:I5:9:ILE:O	2.15	0.47
2:I5:21:TRP:CZ2	2:I5:65:CYS:HB2	2.50	0.47
2:I5:121:ARG:HD2	2:I5:124:LYS:HE3	1.97	0.47
2:I5:156:ARG:HA	2:I5:159:VAL:HG12	1.97	0.47
2:I7:344:VAL:HG13	2:I7:346:TRP:H	1.80	0.47
1:J0:86:ARG:HG2	1:J0:88:ASP:H	1.79	0.47
1:J0:100:ASN:HB3	1:J0:103:LYS:HB2	1.97	0.47
2:J5:121:ARG:HD2	2:J5:124:LYS:HE3	1.96	0.47
2:J9:271:SER:OG	2:J9:300:SER:O	2.26	0.47
2:K3:121:ARG:HA	2:K3:121:ARG:HD2	1.62	0.47
1:K4:396:HIS:HE1	1:K4:397:TRP:CZ2	2.33	0.47
1:K6:183:TYR:O	1:K6:187:LEU:HD13	2.15	0.47
2:K9:157:LEU:HA	2:K9:157:LEU:HD23	1.78	0.47
1:L0:325:GLU:O	1:L0:329:GLN:HG2	2.15	0.47
1:L4:177:ASP:O	2:L5:352:LYS:HA	2.15	0.47
2:L7:116:ASP:OD1	2:L7:117:LEU:N	2.46	0.47
1:M2:113:ILE:HG23	1:M2:117:LEU:HD23	1.96	0.47
1:M4:87:PRO:HD2	2:O1:283:HIS:ND1	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M8:149:THR:O	1:M8:152:ILE:HG22	2.14	0.47
2:N1:72:PRO:HD2	1:N2:2:ARG:HH12	1.80	0.47
1:N2:371:SER:OG	1:N2:372:THR:N	2.48	0.47
2:N5:336:LYS:O	2:N5:339:ARG:NH2	2.48	0.47
1:N6:278:SER:HB2	1:N6:281:TYR:HD2	1.80	0.47
1:N8:139:LEU:CD1	1:N8:168:SER:HB3	2.45	0.47
1:O0:3:GLU:HG3	1:O0:127:CYS:HB2	1.96	0.47
2:O1:175:PRO:HB3	2:O1:390:ARG:HE	1.80	0.47
2:O3:65:CYS:SG	2:O3:66:ILE:N	2.88	0.47
2:P5:251:ASP:OD1	27:7G:184:LYS:HD2	2.14	0.47
2:Q1:4:VAL:HG23	2:Q1:134:GLY:O	2.14	0.47
2:Q5:21:TRP:CZ2	2:Q5:65:CYS:HB2	2.50	0.47
2:R1:56:THR:HG23	2:R1:60:LYS:HB3	1.97	0.47
1:R2:3:GLU:HG3	1:R2:127:CYS:SG	2.55	0.47
1:S2:11:GLN:N	39:S2:502:GDP:O1B	2.31	0.47
1:S6:117:LEU:HD23	1:S6:117:LEU:HA	1.77	0.47
1:T0:6:HIS:NE2	1:T0:136:CYS:SG	2.88	0.47
2:T7:289:ALA:O	2:T7:293:ASN:ND2	2.48	0.47
1:U2:208:TYR:HA	1:U2:211:CYS:SG	2.55	0.47
1:U4:2:ARG:HB3	1:U4:131:GLN:HB2	1.97	0.47
2:U7:399:TYR:OH	2:U7:415:GLU:OE2	2.33	0.47
2:V1:209:ILE:HG23	2:V1:230:LEU:HD11	1.96	0.47
2:V1:292:THR:HG1	2:V1:319:TYR:HH	1.63	0.47
2:V9:244:PHE:HB2	2:V9:356:ASN:HD21	1.79	0.47
2:W3:320:ARG:NH2	2:W3:359:PRO:O	2.45	0.47
2:W3:394:LYS:HB2	1:W4:346:PRO:HG3	1.97	0.47
2:W7:224:TYR:CZ	1:W8:323:THR:HG21	2.50	0.47
2:W9:251:ASP:OD1	2:W9:252:ILE:N	2.48	0.47
2:X5:76:ASP:HA	2:X5:79:ARG:HB2	1.96	0.47
1:X6:263:LEU:HD22	1:X6:422:TYR:CE1	2.50	0.47
1:Y4:33:THR:O	1:Y4:58:ARG:NH2	2.48	0.47
1:Y6:5:VAL:HG12	1:Y6:133:PHE:HD1	1.80	0.47
1:Y8:65:LEU:HD12	1:Y8:90:PHE:CD1	2.50	0.47
1:Z0:125:GLU:OE2	1:Z0:159:TYR:OH	2.24	0.47
1:Z2:21:TRP:CH2	1:Z2:61:PRO:HB3	2.50	0.47
2:Z3:33:ASP:O	2:Z3:60:LYS:NZ	2.47	0.47
1:Z6:11:GLN:NE2	39:Z6:502:GDP:O2A	2.49	0.47
1:Z6:58:ARG:HD3	1:0M:280:GLN:NE2	2.29	0.47
1:Z8:207:LEU:HD21	1:Z8:229:ILE:HD11	1.97	0.47
2:Z9:181:VAL:HG22	1:0A:256:ASN:HD22	1.80	0.47
2:0B:70:LEU:HG	2:0B:145:THR:HG23	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0B:276:ILE:HG23	2:0B:280:LYS:HB3	1.97	0.47
1:0C:388:MET:HB2	1:0C:388:MET:HE3	1.67	0.47
1:0G:290:THR:HA	1:0G:293:MET:HB2	1.97	0.47
2:0H:27:GLU:CD	2:0H:243:ARG:HH12	2.19	0.47
2:0H:183:GLU:CD	2:0H:184:PRO:HD3	2.35	0.47
2:0J:232:ALA:HA	2:0J:235:ILE:HG22	1.97	0.47
1:0K:66:MET:SD	1:0K:116:VAL:HG11	2.55	0.47
1:0M:404:ASP:HB3	1:0M:406:MET:SD	2.55	0.47
2:0N:208:ALA:O	2:0N:212:ILE:HG13	2.15	0.47
1:0O:179:VAL:HB	2:0P:258:ASN:HD22	1.79	0.47
2:0P:333:ALA:O	2:0P:337:THR:HG23	2.15	0.47
2:0R:406:HIS:CG	1:0S:261:PRO:HD3	2.49	0.47
1:1A:95:THR:OG1	1:1A:96:GLY:N	2.48	0.47
1:1E:334:GLN:HE22	1:1E:348:ASN:H	1.62	0.47
2:1L:370:LYS:HG3	9:4Y:381:LEU:HD13	1.96	0.47
2:1P:246:GLY:HA2	2:1P:357:TYR:CD2	2.50	0.47
2:1P:317:LEU:HB3	2:1P:319:TYR:CE1	2.49	0.47
2:1T:238:LEU:HD12	2:1T:239:THR:HG23	1.97	0.47
1:1U:8:GLN:CD	1:1U:17:GLY:HA3	2.35	0.47
1:1U:207:LEU:HD13	1:1U:225:LEU:HB3	1.96	0.47
2:1V:14:ILE:HG12	2:1V:67:PHE:HB3	1.97	0.47
2:2F:203:MET:C	2:2F:204:LEU:HD12	2.36	0.47
1:2G:20:PHE:HB2	1:2G:233:MET:HE3	1.97	0.47
1:2G:309:ARG:NH1	1:2G:341:PHE:O	2.48	0.47
2:2H:88:HIS:HD1	2:2H:91:GLN:HG3	1.79	0.47
2:2H:274:PRO:HB2	2:2H:276:ILE:HG12	1.96	0.47
1:2I:212:PHE:CE1	2:2J:326:LYS:HE3	2.50	0.47
1:2I:244:GLY:HA2	1:2I:355:ASP:OD1	2.15	0.47
2:2J:277:SER:OG	2:2J:278:ALA:N	2.46	0.47
1:2K:177:ASP:O	2:2L:352:LYS:HA	2.14	0.47
2:2L:250:VAL:HG23	2:2L:254:GLU:HG3	1.97	0.47
2:2N:7:ILE:HG13	2:2N:9:ILE:HD11	1.97	0.47
2:2N:161:TYR:HD1	38:8D:80:TYR:HB3	1.74	0.47
2:2N:317:LEU:HB3	2:2N:319:TYR:HE1	1.79	0.47
2:2P:66:ILE:O	2:2P:66:ILE:HG13	2.14	0.47
2:2P:88:HIS:ND1	2:3F:283:HIS:HA	2.30	0.47
1:2Q:306:ARG:O	38:8A:94:LYS:HE2	2.15	0.47
2:2R:420:GLU:HA	2:2R:423:GLU:HG3	1.97	0.47
1:2U:256:ASN:O	1:2U:312:THR:HG21	2.15	0.47
2:2X:22:GLU:OE1	38:8C:203:PHE:HE1	1.96	0.47
2:3B:259:LEU:HD11	2:3B:316:CYS:HB2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3C:337:ASN:CG	38:8D:97:PHE:HA	2.36	0.47
2:3H:47:ASP:N	2:3H:47:ASP:OD1	2.48	0.47
1:3K:77:ARG:NH2	3:4B:18:LYS:HB3	2.27	0.47
2:3L:333:ALA:O	2:3L:337:THR:HG23	2.14	0.47
2:3N:117:LEU:HD13	4:4E:6:PHE:HB2	1.97	0.47
2:3P:221:ARG:NE	1:3Q:325:GLU:OE2	2.48	0.47
1:3Q:116:VAL:HA	1:3Q:119:VAL:HG12	1.96	0.47
1:3Q:257:LEU:HD23	1:3Q:312:THR:HG22	1.96	0.47
3:3X:28:ASN:ND2	3:3X:115:ASN:H	2.12	0.47
4:4A:126:ASP:OD1	4:4A:126:ASP:N	2.46	0.47
4:4E:126:ASP:OD1	4:4E:126:ASP:N	2.46	0.47
12:5G:264:ARG:NH2	31:7N:13:LEU:HD11	2.30	0.47
14:5L:36:SER:HB2	14:5L:57:ASP:O	2.15	0.47
14:5L:205:ASN:N	14:5L:205:ASN:OD1	2.48	0.47
14:5L:493:CYS:SG	14:5L:513:PHE:CG	3.08	0.47
14:5M:205:ASN:N	14:5M:205:ASN:OD1	2.48	0.47
14:5N:385:CYS:HB2	14:5N:401:TRP:CH2	2.50	0.47
18:5Y:183:LEU:HD23	18:5Y:191:VAL:HG11	1.97	0.47
18:5Y:183:LEU:HG	18:5Y:189:TRP:CZ3	2.50	0.47
18:5Z:183:LEU:HG	18:5Z:189:TRP:CZ3	2.50	0.47
18:6A:183:LEU:HD23	18:6A:191:VAL:HG11	1.97	0.47
18:6B:183:LEU:HD23	18:6B:191:VAL:HG11	1.97	0.47
18:6D:183:LEU:HD23	18:6D:191:VAL:HG11	1.97	0.47
19:6E:107:THR:O	19:6E:107:THR:HG22	2.14	0.47
20:6F:86:ASP:HB3	20:6F:247:TYR:CE1	2.49	0.47
22:6I:185:PHE:HE1	22:6I:193:MET:SD	2.38	0.47
22:6I:187:MET:SD	22:6I:256:TYR:HB2	2.55	0.47
22:6K:96:LYS:HD3	22:6K:97:PRO:CD	2.45	0.47
23:6S:69:GLN:H	23:6S:69:GLN:CD	2.15	0.47
24:6W:507:ARG:HA	24:6W:507:ARG:CZ	2.45	0.47
24:6X:156:ASP:N	24:6X:156:ASP:OD2	2.48	0.47
25:7C:21:LEU:O	25:7C:24:GLN:HB3	2.15	0.47
26:7D:115:GLU:HB3	26:7D:116:GLN:HG3	1.96	0.47
29:7I:264:ARG:HD2	29:7I:265:VAL:H	1.79	0.47
34:7R:92:LEU:HD13	35:7T:36:GLN:HE21	1.80	0.47
35:7U:144:VAL:HG13	35:7U:148:GLN:HE21	1.80	0.47
1:5:224:ASP:OD2	26:7D:137:PRO:CD	2.64	0.46
2:A0:44:GLY:HA3	24:6X:131:HIS:CD2	2.49	0.46
1:E0:33:THR:HG23	24:6T:403:PRO:HB2	1.97	0.46
1:G2:95:THR:OG1	1:G2:96:GLY:N	2.48	0.46
1:G6:396:HIS:CD2	2:G7:263:PRO:HD3	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G8:239:CYS:SG	1:G8:248:ALA:N	2.84	0.46
1:H2:208:TYR:HA	1:H2:211:CYS:SG	2.55	0.46
1:H2:374:ILE:HD12	1:H2:378:PHE:HE2	1.80	0.46
2:H7:333:ALA:O	2:H7:337:THR:HG23	2.15	0.46
1:I2:392:LYS:HD2	1:I2:395:LEU:HD22	1.97	0.46
2:I3:353:CYS:SG	2:I3:354:GLY:N	2.89	0.46
1:I4:77:ARG:HE	1:I4:90:PHE:HE2	1.63	0.46
2:I5:319:TYR:CD1	2:I5:375:VAL:HG22	2.50	0.46
2:I5:362:VAL:HA	2:I5:368:LEU:HD11	1.97	0.46
2:J7:250:VAL:HB	2:J7:254:GLU:HG3	1.98	0.46
2:K3:88:HIS:HB2	2:L9:283:HIS:ND1	2.31	0.46
2:K3:90:GLU:OE1	2:K3:90:GLU:N	2.44	0.46
2:K3:116:ASP:OD2	2:K3:117:LEU:N	2.47	0.46
1:K4:44:LEU:O	1:K4:47:ILE:HG12	2.15	0.46
1:L2:145:SER:OG	1:L2:146:GLY:N	2.48	0.46
2:L3:70:LEU:HD12	2:L3:99:ALA:HB2	1.97	0.46
2:L3:73:THR:CG2	1:L4:2:ARG:HH22	2.28	0.46
1:L4:67:ASP:OD2	1:L4:72:THR:OG1	2.31	0.46
2:L9:98:ASP:OD2	2:L9:99:ALA:N	2.48	0.46
1:M0:7:ILE:O	1:M0:135:VAL:HA	2.15	0.46
2:M1:76:ASP:HA	2:M1:79:ARG:HB2	1.97	0.46
1:M2:167:PHE:CZ	1:M2:233:MET:HG2	2.50	0.46
2:M7:372:GLN:HG3	30:7K:83:GLY:HA3	1.96	0.46
1:M8:95:THR:OG1	1:M8:96:GLY:N	2.48	0.46
1:M8:178:THR:OG1	1:M8:181:GLU:HG3	2.14	0.46
1:N0:50:TYR:OH	1:N0:237:THR:HG21	2.15	0.46
1:N2:317:PHE:HB3	1:N2:321:MET:SD	2.55	0.46
2:N3:122:ILE:HD11	2:N3:157:LEU:HD21	1.97	0.46
2:N3:250:VAL:HG13	2:N3:254:GLU:HG3	1.98	0.46
2:N7:417:GLU:HA	2:N7:420:GLU:HG2	1.97	0.46
2:N9:56:THR:HG22	2:P7:285:GLN:CB	2.42	0.46
2:O1:397:LEU:HD23	2:O1:397:LEU:HA	1.82	0.46
1:O2:362:LYS:NZ	37:7Y:227:GLY:HA3	2.30	0.46
2:O3:188:VAL:O	2:O3:191:THR:HG22	2.14	0.46
1:O4:77:ARG:O	37:7Y:29:SER:HB2	2.14	0.46
2:O5:225:THR:HB	32:7P:130:VAL:HG11	1.97	0.46
2:O7:54:SER:OG	2:O7:64:ARG:NE	2.49	0.46
2:P5:413:MET:HB3	2:P5:417:GLU:OE2	2.14	0.46
2:Q5:306:ASP:OD2	2:Q5:308:ARG:HB2	2.16	0.46
1:Q6:1:MET:HB3	1:Q6:2:ARG:H	1.57	0.46
1:Q6:207:LEU:HB3	1:Q6:225:LEU:HD22	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q8:294:TRP:HZ3	1:Q8:367:PHE:CZ	2.33	0.46
2:Q9:72:PRO:HD2	1:R0:2:ARG:NH1	2.30	0.46
1:R0:121:ARG:HG2	1:R0:125:GLU:OE1	2.15	0.46
2:R1:392:ASP:OD2	2:R1:422:ARG:NH1	2.48	0.46
2:R3:72:PRO:HD2	1:R4:2:ARG:NH1	2.30	0.46
1:R6:35:THR:HA	1:R6:57:GLY:O	2.15	0.46
2:R9:79:ARG:O	2:R9:84:ARG:HG2	2.15	0.46
2:R9:399:TYR:O	2:R9:402:ARG:NH1	2.47	0.46
1:S2:311:LEU:HD23	1:S2:311:LEU:HA	1.70	0.46
1:S4:52:ASN:OD1	1:S4:62:ARG:NH2	2.48	0.46
1:S4:219:THR:OG1	24:6U:17:CYS:SG	2.68	0.46
2:S5:9:ILE:HD13	2:S5:150:GLY:HA2	1.97	0.46
2:S5:96:LYS:HG2	1:S6:1:MET:HE1	1.96	0.46
2:T1:9:ILE:HG22	2:T1:146:GLY:HA2	1.96	0.46
1:T2:208:TYR:CE1	1:T2:225:LEU:HD11	2.50	0.46
2:T3:210:TYR:HH	1:T4:323:THR:HG1	1.57	0.46
2:T5:183:GLU:CD	2:T5:184:PRO:HD3	2.36	0.46
2:T5:269:LEU:HD22	2:T5:303:VAL:HG11	1.97	0.46
1:T6:301:CYS:SG	1:T6:302:ALA:N	2.89	0.46
2:T7:333:ALA:O	2:T7:337:THR:HG23	2.14	0.46
2:U5:76:ASP:HA	2:U5:79:ARG:HB2	1.97	0.46
2:U7:72:PRO:HD2	1:U8:2:ARG:HH12	1.80	0.46
1:U8:296:ALA:HB3	1:U8:297:LYS:HZ2	1.80	0.46
1:V0:173:PRO:HD2	1:V0:380:ARG:CZ	2.45	0.46
1:V4:285:THR:HG23	1:V4:288:GLU:H	1.79	0.46
1:W0:273:LEU:H	1:W0:292:GLN:HE22	1.62	0.46
1:W4:205:GLU:OE1	1:W4:205:GLU:N	2.35	0.46
2:W5:305:CYS:HB3	2:W5:387:ILE:HD11	1.97	0.46
2:W9:6:SER:O	2:W9:65:CYS:HA	2.16	0.46
2:X7:21:TRP:CZ2	2:X7:65:CYS:HB3	2.50	0.46
2:X7:109:THR:OG1	2:X7:411:GLU:OE2	2.22	0.46
2:X7:239:THR:HG23	2:X7:243:ARG:HH21	1.79	0.46
1:Y6:222:PHE:HA	1:Y6:225:LEU:HD12	1.97	0.46
1:Y6:309:ARG:O	1:Y6:371:SER:OG	2.27	0.46
2:Y9:30:ILE:HG12	2:Y9:36:MET:HG2	1.97	0.46
1:Z2:417:ASP:HA	1:Z2:420:SER:OG	2.15	0.46
1:0A:155:ILE:HG13	1:0A:164:MET:HE1	1.97	0.46
2:0B:34:GLY:HA3	2:0B:60:LYS:NZ	2.31	0.46
1:0G:19:LYS:O	1:0G:23:VAL:HG23	2.15	0.46
2:0H:213:CYS:HA	2:0H:217:LEU:HB2	1.97	0.46
2:0H:406:HIS:CG	1:0I:261:PRO:HD3	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0N:145:THR:OG1	41:0O:501:GTP:O1B	2.33	0.46
1:0W:8:GLN:CD	1:0W:17:GLY:HA3	2.35	0.46
1:0W:112:LEU:HB3	1:0W:147:MET:HE1	1.98	0.46
1:0W:204:ASN:HD21	39:0W:502:GDP:HN22	1.62	0.46
2:1B:5:ILE:HG22	2:1B:64:ARG:HB3	1.96	0.46
1:1C:95:THR:OG1	1:1C:108:GLU:OE2	2.33	0.46
2:1D:49:PHE:HD2	2:1D:53:PHE:HB2	1.80	0.46
1:1G:273:LEU:H	1:1G:292:GLN:HE22	1.62	0.46
1:1K:212:PHE:O	1:1K:216:LYS:HD2	2.15	0.46
2:1L:76:ASP:HA	2:1L:79:ARG:HB2	1.96	0.46
1:1O:67:ASP:N	1:1O:67:ASP:OD1	2.48	0.46
2:1R:387:ILE:HG12	2:1R:390:ARG:HH12	1.80	0.46
1:1S:418:LEU:HG	1:1S:422:TYR:CE2	2.43	0.46
2:1T:157:LEU:HD23	2:1T:157:LEU:HA	1.81	0.46
1:1U:5:VAL:HG23	1:1U:62:ARG:HG2	1.98	0.46
1:1U:52:ASN:OD1	1:1U:62:ARG:NH2	2.48	0.46
1:1U:295:ASP:OD1	1:1U:297:LYS:HG2	2.15	0.46
2:1V:198:THR:HG21	2:1V:201:ALA:HB2	1.97	0.46
1:1W:35:THR:OG1	1:1W:37:HIS:NE2	2.44	0.46
2:1X:381:SER:OG	2:1X:382:THR:N	2.48	0.46
1:2G:27:GLU:OE1	1:2G:241:ARG:NH1	2.47	0.46
1:2G:337:ASN:HB3	1:2G:340:TYR:HD2	1.78	0.46
2:2J:5:ILE:HG22	2:2J:64:ARG:HD3	1.97	0.46
2:2L:213:CYS:SG	2:2L:219:ILE:HB	2.55	0.46
2:2L:305:CYS:HB3	2:2L:387:ILE:HD11	1.96	0.46
2:2P:9:ILE:HD13	2:2P:150:GLY:HA2	1.96	0.46
2:2P:90:GLU:HB2	2:2P:121:ARG:HH22	1.79	0.46
2:2P:166:LYS:N	2:2P:199:ASP:OD1	2.48	0.46
2:2P:417:GLU:HA	2:2P:420:GLU:CG	2.43	0.46
2:2T:9:ILE:HD13	2:2T:150:GLY:HA2	1.96	0.46
2:2T:21:TRP:CZ2	2:2T:65:CYS:HB2	2.49	0.46
1:2W:39:ASP:CG	10:5C:346:ARG:HH12	2.18	0.46
1:2Y:183:TYR:O	1:2Y:187:LEU:HD13	2.15	0.46
2:2Z:72:PRO:HD2	1:3A:2:ARG:NH1	2.30	0.46
2:2Z:199:ASP:OD2	2:2Z:199:ASP:N	2.43	0.46
1:3A:271:THR:OG1	1:3A:365:ALA:HB3	2.15	0.46
1:3C:49:VAL:HG11	1:3C:241:ARG:HG2	1.97	0.46
1:3C:301:CYS:O	38:8D:105:ARG:NH1	2.48	0.46
2:3F:230:LEU:O	2:3F:234:VAL:HG23	2.14	0.46
1:3G:233:MET:O	1:3G:237:THR:HG22	2.15	0.46
2:3J:335:ILE:HG23	2:3J:341:ILE:HD11	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3S:108:GLU:N	1:3S:108:GLU:OE1	2.48	0.46
3:3V:28:ASN:ND2	3:3V:115:ASN:H	2.13	0.46
4:3W:54:VAL:HG11	4:3W:86:TYR:HB2	1.97	0.46
3:4B:28:ASN:ND2	3:4B:115:ASN:H	2.12	0.46
4:4G:54:VAL:HG11	4:4G:86:TYR:HB2	1.97	0.46
4:4G:126:ASP:OD1	4:4G:126:ASP:N	2.46	0.46
3:4H:28:ASN:ND2	3:4H:115:ASN:H	2.13	0.46
6:4P:91:LYS:HA	6:4P:91:LYS:HD3	1.75	0.46
10:5A:406:LEU:HD21	10:5A:410:ARG:CZ	2.45	0.46
10:5B:275:ASN:O	10:5B:278:GLN:HG3	2.15	0.46
11:5E:14:TRP:CH2	11:5E:103:VAL:HG22	2.50	0.46
14:5L:112:SER:HB2	14:5L:159:SER:CB	2.40	0.46
14:5L:238:VAL:HG23	14:5L:240:MET:O	2.15	0.46
14:5M:244:ALA:HB1	14:5M:297:ILE:HG13	1.96	0.46
14:5M:315:MET:HG3	14:5M:315:MET:O	2.14	0.46
14:5N:238:VAL:HG23	14:5N:240:MET:O	2.15	0.46
15:5O:12:GLU:OE1	15:5O:74:LYS:HG2	2.15	0.46
15:5O:65:VAL:HA	15:5O:74:LYS:HA	1.96	0.46
17:5S:174:SER:CB	17:5S:175:PRO:HD2	2.43	0.46
17:5T:30:LYS:H	17:5T:30:LYS:HG3	1.44	0.46
18:6A:183:LEU:HG	18:6A:189:TRP:CZ3	2.50	0.46
18:6B:183:LEU:HG	18:6B:189:TRP:CZ3	2.50	0.46
18:6C:183:LEU:HG	18:6C:189:TRP:CZ3	2.50	0.46
19:6E:65:ALA:O	19:6E:66:THR:HG22	2.14	0.46
20:6F:149:LEU:HD21	20:6F:167:VAL:HG23	1.98	0.46
21:6G:15:ASP:OD1	21:6G:16:GLU:N	2.48	0.46
22:6L:289:ASP:HA	22:6L:292:ARG:HD2	1.97	0.46
23:6Q:4:LYS:HA	23:6Q:4:LYS:HD2	1.45	0.46
23:6Q:27:ASP:HB3	23:6Q:54:ASN:OD1	2.14	0.46
24:6T:113:ASN:OD1	24:6T:114:HIS:ND1	2.46	0.46
24:6V:304:GLU:OE2	24:6V:306:LEU:HG	2.15	0.46
24:6Y:123:TYR:CE2	24:6Y:163:PRO:HG3	2.50	0.46
24:6Z:556:ASP:O	24:6Z:560:ARG:HG3	2.15	0.46
24:7A:117:ARG:NH1	24:7A:134:GLU:OE2	2.48	0.46
26:7E:115:GLU:HB3	26:7E:116:GLN:HG3	1.96	0.46
29:7J:269:GLY:O	30:7L:368:ARG:NH2	2.43	0.46
28:7X:351:ARG:O	28:7X:355:ASN:ND2	2.48	0.46
38:8C:83:ARG:CZ	38:8C:85:ARG:HD2	2.43	0.46
1:1:379:LYS:HZ1	3:3V:49:HIS:CD2	2.33	0.46
1:A5:78:SER:OG	24:7A:149:LYS:HG3	2.15	0.46
1:A9:280:GLN:HE22	24:6U:106:VAL:HA	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E5:88:HIS:CE1	2:G1:283:HIS:HA	2.49	0.46
2:E7:88:HIS:ND1	2:G3:283:HIS:HB3	2.30	0.46
1:G0:216:LYS:HB2	24:6V:422:ASN:HD22	1.80	0.46
2:G3:9:ILE:HG23	2:G3:68:LEU:HD11	1.97	0.46
2:G9:185:TYR:HA	2:G9:395:PHE:HE1	1.81	0.46
2:H3:72:PRO:HD2	1:H4:2:ARG:NH1	2.29	0.46
2:H3:119:LEU:HA	2:H3:122:ILE:HG22	1.97	0.46
1:I0:177:ASP:O	2:I1:352:LYS:HA	2.16	0.46
1:I2:9:GLY:HA2	1:I2:66:MET:HE3	1.98	0.46
1:I2:382:SER:HB2	1:I2:415:MET:HG2	1.97	0.46
2:I3:317:LEU:HB3	2:I3:319:TYR:CE1	2.50	0.46
1:I8:3:GLU:HG3	1:I8:127:CYS:SG	2.56	0.46
2:I9:76:ASP:HA	2:I9:79:ARG:HD2	1.96	0.46
1:J2:210:ILE:O	1:J2:214:THR:OG1	2.25	0.46
1:J4:19:LYS:NZ	1:J4:227:HIS:HD2	2.13	0.46
2:J5:255:PHE:HA	2:J5:259:LEU:HD13	1.97	0.46
2:K1:383:ALA:O	2:K1:387:ILE:HG13	2.15	0.46
2:K3:137:VAL:HG22	2:K3:168:GLY:HA2	1.96	0.46
2:K9:250:VAL:HG23	2:K9:254:GLU:HG3	1.98	0.46
1:L4:22:GLU:HG2	1:L4:81:TYR:CD1	2.50	0.46
2:M1:98:ASP:OD1	2:M1:99:ALA:N	2.48	0.46
1:M6:134:GLN:HE21	1:M6:167:PHE:HE2	1.62	0.46
1:N0:218:THR:HG21	30:7L:353:ASN:HB3	1.96	0.46
2:N1:100:ALA:HA	1:N2:252:LYS:HE2	1.97	0.46
1:N2:86:ARG:HB2	1:N2:89:ASN:HB2	1.97	0.46
2:N3:214:ARG:NH2	2:N3:215:ARG:HB2	2.31	0.46
1:N6:39:ASP:OD1	1:N6:40:SER:N	2.48	0.46
2:N9:287:SER:N	2:N9:290:GLU:OE2	2.48	0.46
2:N9:296:PHE:HE2	2:N9:335:ILE:HG21	1.81	0.46
1:O0:68:LEU:HB3	1:O0:96:GLY:HA2	1.97	0.46
1:O0:344:TRP:CE3	1:O0:345:ILE:HG13	2.50	0.46
2:O1:122:ILE:HA	2:O1:125:LEU:HB2	1.97	0.46
1:O2:175:VAL:HG11	1:O2:208:TYR:HE2	1.79	0.46
2:O3:62:VAL:HG23	2:O3:62:VAL:O	2.15	0.46
1:O4:309:ARG:NH1	1:O4:341:PHE:O	2.48	0.46
1:P4:180:VAL:HG23	1:P4:184:ASN:ND2	2.29	0.46
1:P4:238:CYS:SG	1:P4:318:ARG:NE	2.89	0.46
1:P4:286:VAL:HG21	1:P4:325:GLU:HB3	1.98	0.46
1:P6:31:ASP:OD2	1:P6:33:THR:OG1	2.25	0.46
1:P8:111:GLU:N	1:P8:111:GLU:OE1	2.48	0.46
2:P9:288:VAL:HG13	2:P9:319:TYR:HE2	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q0:207:LEU:HB3	1:Q0:225:LEU:HD22	1.95	0.46
1:Q2:244:GLY:HA2	1:Q2:355:ASP:OD1	2.15	0.46
2:Q9:305:CYS:HB3	2:Q9:387:ILE:HD11	1.96	0.46
1:R4:70:PRO:HA	1:R4:92:PHE:HZ	1.79	0.46
1:R4:135:VAL:O	1:R4:166:THR:HA	2.16	0.46
1:R4:219:THR:O	1:R4:219:THR:OG1	2.31	0.46
1:R6:227:HIS:CE1	24:6X:11:LEU:HA	2.50	0.46
1:R6:237:THR:HG22	1:R6:237:THR:O	2.15	0.46
1:R8:100:ASN:HB3	1:R8:103:LYS:HB2	1.96	0.46
2:R9:33:ASP:O	2:R9:60:LYS:NZ	2.38	0.46
2:R9:370:LYS:O	7:4R:278:GLN:NE2	2.48	0.46
2:S1:73:THR:OG1	2:S1:74:VAL:N	2.49	0.46
1:S4:317:PHE:HB3	1:S4:321:MET:HE3	1.98	0.46
1:S6:358:PRO:HG2	1:S6:361:LEU:HD12	1.97	0.46
2:S9:245:ASP:HB3	24:6W:29:LYS:HD2	1.98	0.46
2:T7:254:GLU:O	2:T7:257:THR:N	2.46	0.46
2:T7:278:ALA:HA	2:T7:369:ALA:HB2	1.96	0.46
2:U3:325:PRO:HA	2:U3:328:VAL:HG22	1.97	0.46
1:U4:414:ASN:HA	1:U4:417:ASP:OD2	2.15	0.46
2:U7:35:GLN:HB3	2:U7:59:GLY:O	2.14	0.46
2:U9:72:PRO:HG3	1:V0:1:MET:HG3	1.97	0.46
2:V1:211:ASP:OD1	2:V1:215:ARG:NH1	2.48	0.46
1:V4:212:PHE:HE1	1:V4:220:PRO:HG3	1.81	0.46
1:V6:418:LEU:O	1:V6:421:GLU:HG2	2.15	0.46
2:V7:88:HIS:CG	2:X3:283:HIS:HA	2.50	0.46
2:V9:5:ILE:HG22	2:V9:64:ARG:HB3	1.96	0.46
1:W0:56:GLY:HA2	8:4W:173:LYS:HD3	1.98	0.46
1:W2:32:PRO:HD3	1:W2:81:TYR:CZ	2.50	0.46
2:W3:26:LEU:HD21	2:W3:363:VAL:HG12	1.97	0.46
1:W4:272:PRO:HB2	1:W4:282:ARG:HH12	1.80	0.46
2:W5:139:ASN:O	2:W5:170:THR:HA	2.16	0.46
2:X3:25:CYS:SG	2:X3:86:LEU:HD11	2.55	0.46
2:X3:70:LEU:HD13	2:X3:95:GLY:HA3	1.97	0.46
1:X8:49:VAL:HG11	1:X8:241:ARG:HG2	1.95	0.46
2:Y1:116:ASP:N	2:Y1:116:ASP:OD1	2.48	0.46
1:Y2:177:ASP:OD2	39:Y2:501:GDP:H3'	2.14	0.46
1:Y8:117:LEU:HD13	1:Y8:121:ARG:HH22	1.81	0.46
1:Y8:358:PRO:HG2	1:Y8:361:LEU:HB2	1.97	0.46
2:Y9:70:LEU:HB2	2:Y9:98:ASP:HA	1.97	0.46
2:Y9:405:VAL:HG23	2:Y9:418:PHE:HE2	1.80	0.46
2:Z5:429:GLU:O	2:Z5:433:GLU:HG2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z8:51:PHE:HB3	1:Z8:59:TYR:HB3	1.96	0.46
2:Z9:202:VAL:HG22	2:Z9:268:MET:HB2	1.96	0.46
2:0B:53:PHE:HA	2:0B:62:VAL:O	2.16	0.46
1:0C:314:SER:OG	1:0C:350:LYS:HB3	2.15	0.46
1:0E:21:TRP:CZ3	1:0E:61:PRO:HB3	2.51	0.46
1:0E:53:GLU:HB2	1:0E:59:TYR:CE1	2.50	0.46
2:0H:132:LEU:HD12	2:0H:132:LEU:H	1.80	0.46
2:0L:71:GLU:N	2:0L:71:GLU:OE2	2.49	0.46
2:0L:208:ALA:O	2:0L:212:ILE:HG12	2.15	0.46
1:0M:21:TRP:CH2	1:0M:61:PRO:HB3	2.51	0.46
2:0N:288:VAL:HG13	2:0N:319:TYR:HE2	1.80	0.46
2:0N:298:PRO:HA	2:0N:301:MET:HG2	1.97	0.46
2:0N:311:LYS:HD2	2:0N:436:GLY:HA2	1.98	0.46
2:0R:60:LYS:NZ	2:0R:85:GLN:O	2.46	0.46
2:0V:175:PRO:HB3	2:0V:390:ARG:HE	1.80	0.46
2:0X:202:VAL:HG22	2:0X:268:MET:HB2	1.98	0.46
2:0X:298:PRO:HA	2:0X:301:MET:HG3	1.96	0.46
2:0Z:3:GLU:HB2	2:0Z:129:CYS:SG	2.56	0.46
2:0Z:286:LEU:O	2:0Z:373:ARG:NH1	2.48	0.46
2:1B:65:CYS:SG	2:1B:66:ILE:N	2.88	0.46
2:1D:65:CYS:SG	2:1D:66:ILE:N	2.88	0.46
2:1D:90:GLU:HB3	2:1D:121:ARG:CZ	2.46	0.46
2:1D:260:VAL:O	2:1D:260:VAL:HG23	2.15	0.46
1:1G:180:VAL:O	1:1G:180:VAL:HG12	2.15	0.46
1:1K:154:LYS:O	1:1K:158:GLU:HG3	2.16	0.46
1:1K:209:ASP:N	1:1K:209:ASP:OD1	2.48	0.46
1:1O:387:ALA:HA	1:1O:390:ARG:HH21	1.78	0.46
2:1P:74:VAL:O	2:1P:78:VAL:HG23	2.15	0.46
2:1P:266:HIS:ND1	2:1P:266:HIS:O	2.48	0.46
1:1W:301:CYS:SG	1:1W:302:ALA:N	2.89	0.46
1:2E:284:LEU:HA	1:2E:284:LEU:HD23	1.74	0.46
1:2E:418:LEU:O	1:2E:422:TYR:HD2	1.98	0.46
2:2F:71:GLU:HB3	2:2F:98:ASP:HB2	1.97	0.46
2:2J:147:SER:OG	2:2J:190:SER:HB3	2.15	0.46
1:2K:1:MET:O	1:2K:129:CYS:HB3	2.15	0.46
1:2K:52:ASN:OD1	1:2K:62:ARG:NH2	2.48	0.46
2:2N:73:THR:O	2:2N:77:GLU:HG3	2.15	0.46
1:2S:105:HIS:CD2	1:2S:150:LEU:HB2	2.50	0.46
1:2U:306:ARG:NE	38:8B:97:PHE:HD2	2.14	0.46
2:2X:62:VAL:HG22	2:2X:88:HIS:CD2	2.50	0.46
2:2Z:223:THR:HG23	2:2Z:225:THR:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3C:332:ASN:OD1	38:8C:1:MET:HA	2.15	0.46
2:3D:120:ASP:HA	2:3D:123:ARG:HB3	1.97	0.46
2:3D:214:ARG:HD2	2:3D:220:GLU:OE2	2.15	0.46
1:3G:271:THR:HG21	1:3G:293:MET:HG3	1.96	0.46
2:3J:8:HIS:CD2	2:3J:138:PHE:HD2	2.34	0.46
1:3K:90:PHE:HB2	3:4B:19:LEU:HD13	1.97	0.46
1:3O:72:THR:O	1:3O:76:VAL:HG23	2.14	0.46
2:3R:174:SER:OG	2:3R:175:PRO:HD2	2.15	0.46
1:3S:158:GLU:HG2	1:3S:159:TYR:CE1	2.50	0.46
3:3X:270:LEU:H	3:3X:270:LEU:HD23	1.78	0.46
4:3Y:54:VAL:HG11	4:3Y:86:TYR:HB2	1.97	0.46
3:3Z:28:ASN:ND2	3:3Z:115:ASN:H	2.13	0.46
3:3Z:270:LEU:H	3:3Z:270:LEU:HD23	1.78	0.46
4:4C:54:VAL:HG11	4:4C:86:TYR:HB2	1.97	0.46
3:4D:28:ASN:ND2	3:4D:115:ASN:H	2.13	0.46
3:4D:270:LEU:H	3:4D:270:LEU:HD23	1.78	0.46
3:4F:28:ASN:ND2	3:4F:115:ASN:H	2.13	0.46
3:4H:270:LEU:HD23	3:4H:270:LEU:H	1.78	0.46
4:4I:54:VAL:HG11	4:4I:86:TYR:HB2	1.97	0.46
5:4M:17:GLU:O	5:4M:20:GLU:HG3	2.15	0.46
5:4M:66:GLU:OE2	5:4M:70:ASN:ND2	2.48	0.46
6:4O:328:GLU:O	6:4O:332:ASN:ND2	2.48	0.46
7:4R:112:MET:CG	7:4R:113:PRO:HD2	2.29	0.46
10:5C:260:LYS:HE3	10:5C:261:LYS:HZ1	1.80	0.46
12:5F:280:PHE:CD1	12:5F:290:PHE:HB2	2.51	0.46
13:5H:22:TRP:CE3	13:5H:22:TRP:HA	2.51	0.46
13:5J:22:TRP:CE3	13:5J:22:TRP:HA	2.51	0.46
13:5K:22:TRP:CE3	13:5K:22:TRP:HA	2.51	0.46
14:5L:147:THR:O	38:8B:227:LYS:HD2	2.16	0.46
14:5L:219:LEU:HD23	14:5L:231:THR:HA	1.97	0.46
14:5L:315:MET:HG3	14:5L:315:MET:O	2.14	0.46
14:5M:238:VAL:HG23	14:5M:240:MET:O	2.15	0.46
14:5N:315:MET:O	14:5N:315:MET:HG3	2.14	0.46
14:5N:556:VAL:HG13	14:5N:571:GLY:O	2.15	0.46
18:5Y:5:VAL:HG11	18:5Y:62:GLU:HG2	1.97	0.46
19:6E:92:ARG:NE	19:6E:92:ARG:HA	2.30	0.46
22:6M:59:PRO:CB	22:6M:108:ARG:NH2	2.74	0.46
22:6M:201:ARG:HB3	22:6M:237:TYR:HB3	1.98	0.46
22:6P:171:GLU:HA	22:6P:174:GLU:OE1	2.16	0.46
24:6U:14:TYR:CD2	24:6U:14:TYR:N	2.82	0.46
24:6X:502:LYS:HB3	24:6X:511:ILE:HD12	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:6Z:570:GLU:OE2	24:6Z:570:GLU:N	2.46	0.46
24:6Z:574:ARG:O	24:6Z:578:ILE:HG12	2.15	0.46
26:7F:138:THR:HG23	26:7F:139:PRO:CD	2.44	0.46
26:7F:146:ASN:ND2	26:7F:146:ASN:N	2.61	0.46
27:7G:48:THR:O	27:7G:52:VAL:HG22	2.15	0.46
37:7Y:139:ARG:HG2	37:7Y:139:ARG:HH11	1.80	0.46
38:8B:213:GLU:HG3	38:8B:214:HIS:N	2.30	0.46
38:8C:112:ILE:O	38:8C:116:GLN:HG3	2.15	0.46
2:B2:226:ASN:ND2	18:5Z:51:MET:SD	2.88	0.46
2:D5:285:GLN:NE2	24:6Y:253:PRO:HG2	2.28	0.46
1:E2:77:ARG:HH12	24:6U:426:LEU:N	2.12	0.46
2:F7:322:ASP:OD2	24:6T:433:ARG:NH2	2.47	0.46
1:G4:125:GLU:OE2	1:I0:336:LYS:NZ	2.37	0.46
1:G6:272:PRO:HD3	1:G6:364:SER:HA	1.97	0.46
1:G8:186:THR:HG22	1:G8:411:ALA:HB1	1.96	0.46
2:G9:101:ASN:N	41:G9:501:GTP:O3G	2.47	0.46
2:H7:317:LEU:HB3	2:H7:319:TYR:CE1	2.43	0.46
1:H8:257:LEU:HD21	1:H8:314:SER:HB2	1.97	0.46
1:H8:391:ARG:NH2	2:H9:435:VAL:HA	2.31	0.46
2:I3:9:ILE:HG22	2:I3:146:GLY:HA2	1.97	0.46
1:J0:114:ASP:OD2	1:J0:115:SER:N	2.49	0.46
1:J0:178:THR:HA	2:J1:352:LYS:HD2	1.97	0.46
1:J0:317:PHE:HB3	1:J0:321:MET:SD	2.56	0.46
1:J2:364:SER:OG	1:J2:365:ALA:N	2.48	0.46
2:J3:66:ILE:HG22	2:J3:91:GLN:HB3	1.98	0.46
2:J3:123:ARG:HH22	35:7T:118:ILE:HD13	1.79	0.46
2:J3:312:TYR:HB2	2:J3:343:PHE:CD1	2.50	0.46
1:J6:268:VAL:HG23	1:J6:300:MET:HB2	1.97	0.46
2:J7:65:CYS:SG	2:J7:66:ILE:N	2.88	0.46
1:J8:204:ASN:OD1	39:J8:502:GDP:O2'	2.34	0.46
2:J9:334:THR:HA	2:J9:337:THR:HG22	1.97	0.46
2:K1:223:THR:HG22	2:K1:224:TYR:N	2.29	0.46
2:K1:431:ASP:O	2:K1:435:VAL:HG22	2.15	0.46
2:K3:312:TYR:HD1	2:K3:381:SER:HB2	1.81	0.46
2:K5:414:GLU:N	2:K5:414:GLU:OE1	2.49	0.46
1:K6:396:HIS:HE1	1:K6:397:TRP:CZ2	2.34	0.46
2:K7:309:HIS:CG	35:7T:165:ARG:HE	2.33	0.46
1:K8:324:LYS:HD3	1:K8:328:GLU:OE1	2.16	0.46
2:L1:145:THR:OG1	41:L2:501:GTP:O1B	2.33	0.46
1:L6:391:ARG:HG3	2:L7:262:TYR:OH	2.15	0.46
2:L9:17:GLY:HA2	2:L9:20:CYS:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L9:286:LEU:HD12	2:L9:286:LEU:HA	1.81	0.46
1:M0:67:ASP:OD2	1:M0:72:THR:OG1	2.34	0.46
1:M0:173:PRO:HD2	1:M0:380:ARG:CZ	2.45	0.46
2:M1:255:PHE:HA	2:M1:259:LEU:HD13	1.96	0.46
2:M5:96:LYS:HZ1	37:7Y:98:PHE:HA	1.80	0.46
2:N3:114:ILE:HB	2:N3:149:LEU:HD21	1.97	0.46
2:N5:124:LYS:HA	2:N5:127:ASP:OD1	2.16	0.46
2:N5:330:ALA:O	2:N5:334:THR:HG23	2.14	0.46
2:O5:121:ARG:HD2	2:O5:121:ARG:O	2.14	0.46
2:O5:280:LYS:HA	2:O5:283:HIS:HB3	1.98	0.46
2:O7:172:TYR:CE2	2:O7:203:MET:HG2	2.51	0.46
2:Q3:62:VAL:CG2	2:Q3:88:HIS:HB2	2.45	0.46
2:Q3:367:ASP:OD1	2:Q3:368:LEU:HD12	2.16	0.46
1:Q6:237:THR:HG23	1:Q6:240:LEU:HD12	1.96	0.46
1:Q8:159:TYR:HB3	1:Q8:162:ARG:HD2	1.96	0.46
2:Q9:175:PRO:HG2	2:Q9:176:GLN:OE1	2.15	0.46
1:R0:60:VAL:HG23	1:R0:84:ILE:O	2.15	0.46
1:R2:189:VAL:O	1:R2:193:VAL:HG13	2.14	0.46
2:R3:153:LEU:O	2:R3:157:LEU:HB2	2.16	0.46
1:R4:70:PRO:CA	1:R4:92:PHE:HZ	2.28	0.46
2:R7:242:LEU:HD11	2:R7:252:ILE:HG12	1.96	0.46
2:R9:176:GLN:HG2	2:R9:177:VAL:N	2.29	0.46
1:S0:186:THR:HG22	1:S0:411:ALA:HB1	1.97	0.46
2:S1:266:HIS:O	2:S1:266:HIS:ND1	2.47	0.46
1:S2:54:ALA:HB3	1:S2:58:ARG:HB3	1.97	0.46
1:S6:292:GLN:HG2	1:S6:298:ASN:ND2	2.29	0.46
1:S6:325:GLU:O	1:S6:329:GLN:HG2	2.15	0.46
2:S7:45:GLY:HA2	7:4T:257:ARG:NE	2.30	0.46
1:S8:6:HIS:HD2	1:S8:134:GLN:OE1	1.99	0.46
2:S9:70:LEU:HG	2:S9:145:THR:HG23	1.96	0.46
2:T3:384:ILE:HA	2:T3:387:ILE:HD12	1.97	0.46
1:T4:279:GLN:HE22	7:4U:129:GLN:HB3	1.81	0.46
1:T6:2:ARG:HB3	1:T6:131:GLN:HB2	1.97	0.46
2:U1:66:ILE:O	2:U1:66:ILE:HG13	2.15	0.46
1:U2:218:THR:O	2:U3:326:LYS:HE2	2.15	0.46
1:U2:412:GLU:OE1	1:U2:416:ASN:ND2	2.48	0.46
2:U3:72:PRO:HD2	1:U4:2:ARG:NH1	2.30	0.46
2:U3:116:ASP:OD2	2:U3:117:LEU:N	2.48	0.46
2:U7:32:PRO:HB3	2:U7:83:TYR:CE1	2.50	0.46
1:U8:350:LYS:NZ	1:U8:352:SER:OG	2.48	0.46
2:U9:428:LEU:HG	2:U9:432:PHE:CE2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V2:53:GLU:OE2	1:V2:58:ARG:N	2.45	0.46
1:V4:173:PRO:HD2	1:V4:380:ARG:NH1	2.31	0.46
1:W0:335:ASN:O	1:W0:338:SER:OG	2.32	0.46
1:W4:167:PHE:CZ	1:W4:233:MET:HG2	2.51	0.46
1:W4:249:ASP:OD1	1:W4:250:LEU:N	2.47	0.46
2:W7:50:ASN:O	2:W7:64:ARG:NH2	2.48	0.46
1:W8:145:SER:OG	1:W8:188:SER:OG	2.24	0.46
1:X2:6:HIS:CD2	1:X2:134:GLN:HG3	2.50	0.46
2:X9:180:ALA:HB1	1:Y0:256:ASN:HD21	1.79	0.46
1:Y2:2:ARG:HH21	1:Y2:240:LEU:HA	1.81	0.46
2:Y3:52:PHE:CE2	2:Y3:243:ARG:HD3	2.50	0.46
1:Y8:103:LYS:NZ	1:Y8:108:GLU:OE2	2.46	0.46
1:Z0:181:GLU:HG3	1:Z0:182:PRO:CD	2.45	0.46
1:Z2:117:LEU:HD11	1:Z2:154:LYS:HE3	1.97	0.46
1:Z2:186:THR:OG1	1:Z2:187:LEU:HD12	2.15	0.46
1:Z4:189:VAL:HA	1:Z4:192:LEU:HB3	1.98	0.46
1:Z4:404:ASP:HB2	1:Z4:406:MET:SD	2.55	0.46
2:Z7:407:TRP:NE1	1:Z8:258:ILE:O	2.38	0.46
1:Z8:325:GLU:HA	1:Z8:328:GLU:HG3	1.96	0.46
1:Z8:391:ARG:NH2	2:Z9:434:GLU:O	2.43	0.46
2:Z9:12:ALA:O	2:Z9:16:VAL:HG23	2.15	0.46
2:0F:298:PRO:HA	2:0F:301:MET:HG2	1.98	0.46
2:0L:174:SER:HB3	2:0L:177:VAL:O	2.15	0.46
2:0L:178:SER:OG	2:0L:183:GLU:OE2	2.29	0.46
1:0Q:153:SER:O	1:0Q:157:GLU:HG2	2.14	0.46
2:0R:55:GLU:O	2:1H:285:GLN:NE2	2.48	0.46
1:0S:152:ILE:HG22	1:0S:195:ASN:OD1	2.15	0.46
1:0U:233:MET:O	1:0U:237:THR:HG22	2.16	0.46
1:0U:393:ALA:HB2	2:0V:262:TYR:OH	2.16	0.46
2:0V:431:ASP:O	2:0V:434:GLU:HG3	2.15	0.46
1:1A:404:ASP:HB3	1:1A:406:MET:SD	2.55	0.46
1:1K:389:PHE:O	1:1K:392:LYS:NZ	2.36	0.46
2:1L:3:GLU:HB2	2:1L:129:CYS:SG	2.55	0.46
2:1N:55:GLU:O	2:1N:55:GLU:CG	2.63	0.46
1:1O:68:LEU:HB3	1:1O:96:GLY:HA2	1.97	0.46
2:1P:177:VAL:HG13	1:1Q:327:ASP:HB3	1.96	0.46
1:1Q:114:ASP:N	1:1Q:114:ASP:OD1	2.47	0.46
1:1Q:135:VAL:HG21	1:1Q:152:ILE:HD11	1.98	0.46
1:1W:396:HIS:CE1	1:1W:397:TRP:CE2	3.04	0.46
2:1X:155:GLU:HG2	2:1X:197:HIS:NE2	2.31	0.46
1:2A:31:ASP:OD2	1:2A:33:THR:OG1	2.21	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2H:271:SER:OG	2:2H:300:SER:O	2.33	0.46
1:2K:345:ILE:O	1:2K:348:ASN:ND2	2.47	0.46
2:2N:111:GLY:HA2	2:2N:114:ILE:HG22	1.96	0.46
2:2P:214:ARG:HH22	38:7Z:19:PHE:H	1.63	0.46
1:2Q:306:ARG:NH1	38:8A:99:THR:O	2.47	0.46
1:3A:114:ASP:OD1	1:3A:115:SER:N	2.49	0.46
2:3D:109:THR:O	2:3D:112:LYS:HE2	2.16	0.46
2:3F:132:LEU:HD22	2:3F:164:LYS:HD3	1.97	0.46
2:3H:84:ARG:HE	23:6Q:15:ARG:HH22	1.62	0.46
1:3I:293:MET:HE1	1:3I:317:PHE:HE1	1.79	0.46
1:3I:395:LEU:O	1:3I:399:THR:HG23	2.16	0.46
1:3K:91:VAL:HG11	1:3K:116:VAL:HG23	1.96	0.46
2:3N:21:TRP:CZ3	2:3N:63:PRO:HB3	2.50	0.46
2:3N:244:PHE:HB2	2:3N:356:ASN:HD21	1.79	0.46
1:3O:389:PHE:O	1:3O:392:LYS:NZ	2.37	0.46
1:3Q:217:LEU:HA	38:8D:226:ARG:O	2.15	0.46
1:3S:266:PHE:CD1	1:3S:370:ASN:HB2	2.50	0.46
3:3V:270:LEU:H	3:3V:270:LEU:HD23	1.78	0.46
4:3W:126:ASP:OD1	4:3W:126:ASP:N	2.46	0.46
4:4E:54:VAL:HG11	4:4E:86:TYR:HB2	1.97	0.46
5:4M:293:LEU:HA	5:4M:296:GLU:OE2	2.15	0.46
10:5C:190:ILE:HA	10:5C:193:VAL:HG22	1.97	0.46
10:5C:285:MET:HE1	38:8B:201:LEU:HD21	1.96	0.46
13:5I:22:TRP:CE3	13:5I:22:TRP:HA	2.51	0.46
14:5L:244:ALA:HB1	14:5L:297:ILE:HG13	1.96	0.46
14:5L:578:LYS:HA	14:5L:589:PHE:CB	2.45	0.46
14:5L:579:LEU:HD23	14:5L:588:TYR:HD2	1.79	0.46
14:5M:399:SER:OG	14:5M:401:TRP:NE1	2.48	0.46
14:5M:578:LYS:HA	14:5M:589:PHE:CB	2.45	0.46
14:5M:579:LEU:HD23	14:5M:588:TYR:HD2	1.79	0.46
14:5N:578:LYS:HA	14:5N:589:PHE:CB	2.45	0.46
14:5N:579:LEU:HD23	14:5N:588:TYR:HD2	1.79	0.46
15:5O:210:ALA:HB3	15:5O:213:THR:CG2	2.45	0.46
15:5P:330:LEU:HD23	15:5P:330:LEU:O	2.15	0.46
17:5U:30:LYS:H	17:5U:30:LYS:HG3	1.44	0.46
21:6H:109:THR:CA	24:6X:82:ALA:HB3	2.44	0.46
22:6J:172:ARG:NH1	22:6J:215:GLY:HA3	2.30	0.46
22:6N:201:ARG:HB3	22:6N:237:TYR:HB3	1.98	0.46
22:6O:271:ARG:HH12	22:6O:275:LEU:CG	2.28	0.46
24:6V:142:ILE:HD12	24:6V:142:ILE:H	1.80	0.46
24:6V:482:ILE:HB	24:6V:498:LEU:HB3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:6W:18:LEU:HD12	24:6W:18:LEU:N	2.31	0.46
24:6Y:183:ASP:OD1	24:6Y:184:ALA:N	2.48	0.46
24:6Y:290:ARG:HG3	24:6Y:291:PRO:HD2	1.96	0.46
24:6Y:482:ILE:HG22	24:6Y:497:PHE:HB3	1.97	0.46
29:7I:41:LYS:HA	29:7I:41:LYS:HD3	1.82	0.46
37:7Y:225:TRP:CD1	37:7Y:226:VAL:HG13	2.51	0.46
1:7:281:TYR:OH	1:T0:83:GLN:O	2.24	0.46
2:D3:12:ALA:HB2	41:D3:501:GTP:C8	2.50	0.46
2:E9:81:GLY:HA3	22:6N:116:TYR:CE2	2.47	0.46
1:G2:174:LYS:HB3	1:G2:174:LYS:HE2	1.76	0.46
1:G2:178:THR:OG1	2:G3:258:ASN:ND2	2.48	0.46
1:G2:190:HIS:HD2	1:G2:414:ASN:HB2	1.78	0.46
2:G3:379:SER:OG	2:G3:380:ASN:N	2.48	0.46
2:H5:51:THR:HG23	2:H5:52:PHE:CD2	2.50	0.46
2:H5:182:VAL:HG23	2:H5:186:ASN:HD21	1.80	0.46
2:H9:3:GLU:HB2	2:H9:129:CYS:SG	2.55	0.46
1:I0:176:SER:HB3	2:I1:349:THR:OG1	2.16	0.46
2:I3:83:TYR:HB3	2:I3:86:LEU:HB3	1.96	0.46
1:I4:276:ARG:HH11	24:6Z:491:GLY:HA3	1.81	0.46
2:I5:105:ARG:O	2:I5:109:THR:OG1	2.27	0.46
2:I9:21:TRP:CZ3	2:I9:63:PRO:HB3	2.50	0.46
1:J0:135:VAL:HG12	1:J0:137:HIS:HD2	1.79	0.46
1:J2:10:GLY:HA2	1:J2:67:ASP:OD2	2.15	0.46
1:J2:49:VAL:HG11	1:J2:241:ARG:HG2	1.98	0.46
1:J2:121:ARG:NH2	1:J2:158:GLU:OE2	2.39	0.46
2:J7:121:ARG:C	2:J7:121:ARG:HD2	2.36	0.46
2:J7:362:VAL:HG11	5:4M:212:GLN:NE2	2.30	0.46
2:K1:269:LEU:N	2:K1:379:SER:O	2.36	0.46
1:K4:284:LEU:HD22	1:K4:362:LYS:HB3	1.96	0.46
2:K5:387:ILE:HG12	2:K5:390:ARG:HH22	1.79	0.46
2:L7:33:ASP:O	2:L7:60:LYS:NZ	2.47	0.46
2:M1:384:ILE:HA	2:M1:387:ILE:HD12	1.97	0.46
1:M6:178:THR:CG2	1:M6:181:GLU:HG3	2.45	0.46
1:M6:324:LYS:O	1:M6:328:GLU:HG3	2.15	0.46
2:M7:326:LYS:HG3	2:M7:327:ASP:N	2.31	0.46
2:M7:328:VAL:O	2:M7:332:VAL:HG22	2.16	0.46
2:N1:22:GLU:O	2:N1:26:LEU:HD23	2.16	0.46
2:N1:301:MET:HE1	2:N1:307:PRO:HD3	1.97	0.46
2:N5:306:ASP:HB3	2:N5:309:HIS:CD2	2.51	0.46
1:O0:274:THR:HG21	1:O0:282:ARG:HD3	1.98	0.46
1:O2:337:ASN:HB2	1:O2:340:TYR:HD2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O5:265:ILE:HD11	2:O5:435:VAL:HG21	1.97	0.46
2:O7:88:HIS:HD2	2:O7:90:GLU:HB3	1.79	0.46
1:P4:135:VAL:HG21	1:P4:152:ILE:HD11	1.97	0.46
2:P7:145:THR:OG1	41:P8:501:GTP:O1B	2.33	0.46
1:Q0:245:GLN:HG2	19:6E:148:THR:HG21	1.98	0.46
1:Q2:174:LYS:HE2	1:Q2:174:LYS:HB3	1.78	0.46
1:Q4:287:PRO:HG3	1:Q4:329:GLN:OE1	2.15	0.46
1:Q6:8:GLN:CD	1:Q6:17:GLY:HA3	2.36	0.46
2:R1:178:SER:HB3	2:R1:183:GLU:OE2	2.15	0.46
2:R3:370:LYS:HD2	7:4R:87:PHE:CD2	2.50	0.46
1:R8:24:VAL:HG11	1:R8:50:TYR:CD2	2.50	0.46
2:S1:417:GLU:HA	2:S1:420:GLU:HG2	1.97	0.46
2:S9:183:GLU:CD	2:S9:184:PRO:HD3	2.36	0.46
2:S9:407:TRP:CE2	1:T0:255:VAL:HA	2.50	0.46
1:T2:77:ARG:NH1	24:6Y:47:GLN:O	2.48	0.46
1:T2:328:GLU:HB3	17:5T:38:PHE:CZ	2.50	0.46
1:T4:320:ARG:NE	7:4U:101:ASP:OD2	2.46	0.46
1:T6:50:TYR:O	1:T6:61:PRO:HA	2.15	0.46
2:T7:90:GLU:CD	2:T7:121:ARG:HD3	2.35	0.46
1:T8:3:GLU:O	1:T8:131:GLN:HB3	2.15	0.46
1:U4:263:LEU:HD22	1:U4:422:TYR:CE1	2.50	0.46
2:U5:251:ASP:OD2	2:U5:253:THR:N	2.49	0.46
1:U6:20:PHE:CD1	1:U6:233:MET:HE2	2.51	0.46
1:U8:7:ILE:HB	1:U8:135:VAL:HG22	1.96	0.46
2:U9:76:ASP:OD2	1:V0:46:ARG:NH2	2.48	0.46
2:U9:422:ARG:NH1	2:U9:426:ALA:HB2	2.29	0.46
1:V0:282:ARG:HG2	1:V0:283:ALA:O	2.14	0.46
1:V2:317:PHE:HE2	1:V2:326:VAL:HG13	1.79	0.46
2:V3:72:PRO:HG3	1:V4:1:MET:HG3	1.97	0.46
2:W1:76:ASP:O	2:W1:80:THR:HG22	2.16	0.46
2:W3:27:GLU:HG2	2:W3:361:THR:HG21	1.98	0.46
2:W7:22:GLU:O	2:W7:26:LEU:HD23	2.16	0.46
2:W7:414:GLU:HG2	2:W7:417:GLU:OE1	2.15	0.46
1:X0:58:ARG:HB2	8:4W:469:GLN:HE22	1.80	0.46
1:X4:354:CYS:SG	1:X4:355:ASP:N	2.89	0.46
1:X6:22:GLU:HG3	1:X6:81:TYR:CD1	2.50	0.46
1:Y0:19:LYS:HB3	1:Y0:19:LYS:HE3	1.74	0.46
2:Y1:51:THR:HG21	2:Y1:243:ARG:HG2	1.97	0.46
2:Y5:116:ASP:N	2:Y5:116:ASP:OD1	2.47	0.46
1:Y8:322:SER:O	1:Y8:326:VAL:HG23	2.15	0.46
2:Z1:157:LEU:HD22	2:Z1:166:LYS:HD3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z3:286:LEU:HG	2:Z3:373:ARG:NH1	2.31	0.46
2:Z5:90:GLU:CD	2:Z5:124:LYS:HZ1	2.18	0.46
2:Z5:345:ASP:N	2:Z5:345:ASP:OD1	2.49	0.46
1:Z6:212:PHE:HE1	1:Z6:220:PRO:HG3	1.81	0.46
1:Z8:257:LEU:HD11	1:Z8:314:SER:HB3	1.98	0.46
1:Z8:297:LYS:HD3	1:Z8:297:LYS:HA	1.62	0.46
2:Z9:65:CYS:SG	2:Z9:66:ILE:N	2.89	0.46
1:0E:379:LYS:HA	1:0E:382:SER:OG	2.16	0.46
2:0H:398:MET:SD	1:0I:345:ILE:HG23	2.56	0.46
1:0K:314:SER:HA	1:0K:350:LYS:O	2.15	0.46
2:0L:9:ILE:HB	2:0L:139:ASN:HB3	1.96	0.46
2:0L:176:GLN:HG2	2:0L:177:VAL:N	2.31	0.46
2:0L:417:GLU:HA	2:0L:420:GLU:HG2	1.97	0.46
2:0N:195:LEU:CD2	2:0N:196:GLU:HG2	2.45	0.46
1:0Q:207:LEU:HB3	1:0Q:225:LEU:HD22	1.98	0.46
1:0Q:335:ASN:O	1:0Q:338:SER:OG	2.32	0.46
1:0Y:161:ASP:OD2	1:0Y:161:ASP:N	2.42	0.46
2:1B:367:ASP:OD2	2:1B:367:ASP:N	2.48	0.46
1:1C:6:HIS:CE1	1:1C:8:GLN:HG2	2.50	0.46
1:1E:114:ASP:N	1:1E:114:ASP:OD1	2.47	0.46
2:1P:405:VAL:HG23	2:1P:418:PHE:HE2	1.81	0.46
1:1S:8:GLN:CD	1:1S:17:GLY:HA3	2.36	0.46
2:1X:367:ASP:OD1	2:1X:367:ASP:N	2.48	0.46
1:2I:233:MET:O	1:2I:236:ILE:HG22	2.15	0.46
2:2P:119:LEU:HD21	2:2P:156:ARG:HB3	1.97	0.46
1:2S:345:ILE:HB	1:2S:348:ASN:HD21	1.81	0.46
2:2V:90:GLU:HG3	2:2V:121:ARG:CZ	2.46	0.46
2:2X:358:GLN:HE21	38:8C:214:HIS:H	1.63	0.46
1:2Y:178:THR:HA	2:2Z:352:LYS:HD3	1.97	0.46
2:2Z:297:GLU:OE2	38:8C:74:ILE:CB	2.64	0.46
1:3C:320:ARG:HH12	38:8D:198:THR:HA	1.80	0.46
1:3C:406:MET:O	1:3C:410:GLU:HG2	2.16	0.46
2:3D:88:HIS:ND1	2:3T:283:HIS:HA	2.30	0.46
2:3F:102:ASN:HB3	2:3F:105:ARG:HB3	1.97	0.46
1:3G:391:ARG:HH12	2:3H:434:GLU:HG2	1.80	0.46
1:3K:178:THR:HG22	1:3K:180:VAL:H	1.80	0.46
1:3K:330:MET:HA	1:3K:333:VAL:HG12	1.97	0.46
2:3N:399:TYR:O	2:3N:402:ARG:NH1	2.48	0.46
1:3O:170:VAL:HG21	1:3O:377:MET:SD	2.55	0.46
4:3Y:2:PHE:HZ	23:6Q:3:LEU:HD12	1.80	0.46
4:3Y:136:LEU:O	4:3Y:140:THR:OG1	2.32	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4A:54:VAL:HG11	4:4A:86:TYR:HB2	1.97	0.46
3:4B:270:LEU:H	3:4B:270:LEU:HD23	1.78	0.46
3:4F:270:LEU:H	3:4F:270:LEU:HD23	1.78	0.46
7:4U:27:ILE:O	7:4U:27:ILE:HG13	2.16	0.46
8:4W:225:SER:HA	8:4W:228:ARG:HD3	1.97	0.46
10:5C:474:LYS:NZ	10:5C:495:GLU:O	2.41	0.46
12:5F:138:THR:O	12:5F:142:THR:HG23	2.16	0.46
14:5M:454:ILE:O	14:5M:456:ARG:NH2	2.49	0.46
14:5N:244:ALA:HB1	14:5N:297:ILE:HG13	1.96	0.46
14:5N:454:ILE:O	14:5N:456:ARG:NH2	2.48	0.46
15:5O:95:LEU:HD11	15:5O:221:TRP:CD1	2.50	0.46
17:5U:189:TRP:HZ3	17:5U:223:GLU:HG3	1.79	0.46
21:6H:26:VAL:HG11	21:6H:128:ALA:HB1	1.96	0.46
22:6J:171:GLU:HA	22:6J:174:GLU:OE1	2.15	0.46
22:6P:186:ARG:O	22:6P:189:LYS:HB2	2.15	0.46
24:6T:456:ASP:N	24:6T:456:ASP:OD1	2.48	0.46
24:6T:627:GLU:O	24:6T:630:LEU:HG	2.14	0.46
24:6W:90:GLU:HG2	24:6W:91:ASN:ND2	2.30	0.46
24:6W:97:ARG:H	24:6W:188:THR:CG2	2.27	0.46
24:6W:156:ASP:OD1	24:6W:157:ASP:N	2.49	0.46
24:6X:107:VAL:HG12	24:6X:108:GLU:N	2.27	0.46
24:6X:416:ILE:HD12	24:6X:416:ILE:H	1.80	0.46
24:6X:445:ILE:HG13	24:6X:474:PHE:CE1	2.49	0.46
24:6X:489:ASN:ND2	24:6X:489:ASN:O	2.48	0.46
24:6X:519:VAL:CG1	24:6X:533:LEU:O	2.57	0.46
24:6Y:505:LYS:HD2	24:6Y:510:GLU:HB3	1.96	0.46
24:6Y:536:ASP:HB3	24:6Y:539:THR:HG23	1.98	0.46
24:6Y:602:LEU:HG	24:6Y:604:PHE:HD1	1.79	0.46
24:6Z:244:ALA:CB	24:6Z:257:LEU:HD11	2.44	0.46
24:6Z:482:ILE:HB	24:6Z:498:LEU:HB3	1.97	0.46
24:7A:97:ARG:H	24:7A:188:THR:CG2	2.26	0.46
29:7J:117:ASN:O	29:7J:121:ASN:HB2	2.15	0.46
35:7U:95:LYS:HA	35:7U:98:ASP:OD2	2.14	0.46
38:8C:83:ARG:N	38:8C:83:ARG:CD	2.79	0.46
2:2:33:ASP:HB3	18:5X:77:THR:HG21	1.97	0.46
1:9:78:SER:HB2	24:6X:149:LYS:HG3	1.96	0.46
2:A0:282:TYR:HE1	24:6X:88:TRP:HH2	1.63	0.46
2:E9:18:ASN:HD21	22:6N:116:TYR:HE1	1.63	0.46
2:G3:279:GLU:HG2	2:G3:280:LYS:N	2.30	0.46
2:G3:286:LEU:O	2:G3:373:ARG:NH1	2.49	0.46
1:G4:286:VAL:O	1:G4:290:THR:HG23	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G6:209:ASP:OD1	1:G6:210:ILE:N	2.48	0.46
2:G7:102:ASN:ND2	2:G7:105:ARG:HB2	2.29	0.46
2:H1:109:THR:OG1	2:H1:411:GLU:OE2	2.29	0.46
1:H2:33:THR:O	1:H2:58:ARG:NH2	2.49	0.46
2:H5:3:GLU:HB2	2:H5:129:CYS:SG	2.56	0.46
2:H5:312:TYR:HB2	2:H5:343:PHE:HD1	1.79	0.46
1:H6:175:VAL:HG22	2:H7:329:ASN:HD21	1.81	0.46
1:H6:248:ALA:HA	1:H6:252:LYS:HD2	1.96	0.46
1:I2:396:HIS:H	1:I2:396:HIS:CD2	2.34	0.46
2:I3:113:GLU:N	2:I3:113:GLU:OE1	2.48	0.46
1:I4:69:GLU:OE2	1:I4:96:GLY:HA2	2.15	0.46
1:J0:177:ASP:O	2:J1:352:LYS:HA	2.15	0.46
2:J3:305:CYS:HB3	2:J3:387:ILE:HD11	1.98	0.46
1:J4:244:GLY:H	1:J4:247:ASN:HD21	1.64	0.46
2:J5:409:VAL:HA	2:J5:413:MET:O	2.15	0.46
1:J6:7:ILE:HB	1:J6:135:VAL:HG22	1.98	0.46
2:J7:17:GLY:HA2	2:J7:20:CYS:HB3	1.97	0.46
2:J7:281:ALA:HA	2:J7:284:GLU:CG	2.41	0.46
2:J9:326:LYS:HG3	2:J9:327:ASP:H	1.80	0.46
2:J9:406:HIS:HA	2:J9:409:VAL:HG22	1.97	0.46
1:K8:274:THR:OG1	1:K8:279:GLN:OE1	2.28	0.46
2:K9:11:GLN:HB3	41:K9:501:GTP:PA	2.56	0.46
2:K9:51:THR:HG21	2:K9:243:ARG:HG2	1.96	0.46
1:L2:224:ASP:OD2	29:7J:431:SER:OG	2.34	0.46
2:M1:137:VAL:HG22	2:M1:168:GLY:HA2	1.98	0.46
2:M1:417:GLU:HA	2:M1:420:GLU:HG2	1.98	0.46
2:M3:5:ILE:HG22	2:M3:64:ARG:HB3	1.98	0.46
2:M5:384:ILE:HA	2:M5:387:ILE:HD12	1.96	0.46
1:N0:5:VAL:HG23	1:N0:62:ARG:HG2	1.96	0.46
1:N0:216:LYS:HB2	1:N0:275:SER:OG	2.15	0.46
2:N1:223:THR:HG23	2:N1:225:THR:H	1.81	0.46
2:N1:286:LEU:HD12	2:N1:286:LEU:HA	1.78	0.46
1:N2:128:ASP:N	1:N2:128:ASP:OD1	2.48	0.46
2:N3:52:PHE:CE2	2:N3:243:ARG:HD3	2.51	0.46
2:N7:185:TYR:HE1	2:N7:398:MET:HG2	1.80	0.46
1:O4:67:ASP:OD1	1:O4:68:LEU:N	2.42	0.46
1:O4:385:PHE:HZ	1:O4:408:PHE:HB3	1.79	0.46
1:O6:49:VAL:HG11	1:O6:241:ARG:HG2	1.98	0.46
1:O6:91:VAL:HG11	1:O6:116:VAL:HG23	1.98	0.46
2:P3:4:VAL:HG23	2:P3:134:GLY:O	2.15	0.46
2:P5:279:GLU:OE2	2:P5:279:GLU:HA	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P9:5:ILE:HG22	2:P9:64:ARG:HD3	1.97	0.46
1:Q4:319:GLY:O	1:Q4:321:MET:HG3	2.15	0.46
1:Q8:30:ILE:HG21	1:Q8:59:TYR:HD2	1.79	0.46
1:R0:173:PRO:HG2	1:R0:174:LYS:NZ	2.31	0.46
1:R4:68:LEU:HD13	1:R4:108:GLU:OE2	2.16	0.46
1:S2:95:THR:HG23	1:S2:96:GLY:N	2.31	0.46
1:S4:3:GLU:HB2	1:S4:130:LEU:HA	1.97	0.46
2:S9:178:SER:OG	2:S9:183:GLU:OE2	2.28	0.46
2:S9:239:THR:HG23	2:S9:243:ARG:HE	1.81	0.46
2:S9:300:SER:O	2:S9:300:SER:OG	2.30	0.46
1:T0:209:ASP:OD2	13:5I:114:LEU:HB3	2.15	0.46
1:U2:7:ILE:O	1:U2:135:VAL:HA	2.15	0.46
1:U2:60:VAL:HG23	1:U2:84:ILE:O	2.16	0.46
1:U2:396:HIS:HE1	1:U2:397:TRP:CZ2	2.33	0.46
1:U4:304:ASP:HB3	1:U4:307:HIS:ND1	2.31	0.46
1:U6:170:VAL:HG12	1:U6:202:LEU:O	2.15	0.46
1:U6:173:PRO:HG2	1:U6:174:LYS:NZ	2.31	0.46
1:U6:270:PHE:HD2	1:U6:273:LEU:HD21	1.80	0.46
1:V2:7:ILE:O	1:V2:135:VAL:HA	2.16	0.46
2:V3:175:PRO:HB3	2:V3:390:ARG:NE	2.29	0.46
1:V4:114:ASP:OD1	1:V4:115:SER:N	2.48	0.46
1:W4:7:ILE:HG23	1:W4:64:ILE:HG23	1.98	0.46
1:W8:208:TYR:CE1	1:W8:225:LEU:HD11	2.51	0.46
2:W9:8:HIS:CD2	2:W9:17:GLY:HA3	2.51	0.46
1:X0:208:TYR:CE1	1:X0:225:LEU:HD11	2.51	0.46
1:X4:309:ARG:O	1:X4:371:SER:OG	2.29	0.46
1:X4:395:LEU:O	1:X4:399:THR:HG23	2.14	0.46
1:X4:412:GLU:O	1:X4:416:ASN:ND2	2.48	0.46
1:X8:3:GLU:HB2	1:X8:130:LEU:HA	1.98	0.46
1:Y0:327:ASP:HA	1:Y0:330:MET:HE1	1.98	0.46
1:Y0:361:LEU:HA	8:4W:292:MET:CE	2.46	0.46
2:Y1:5:ILE:HD11	2:Y1:135:PHE:CE1	2.50	0.46
1:Y2:150:LEU:O	1:Y2:153:SER:OG	2.30	0.46
1:Y4:70:PRO:N	1:Y4:92:PHE:HZ	2.12	0.46
1:Z0:66:MET:HE1	1:Z0:151:LEU:HD21	1.98	0.46
1:Z2:66:MET:HE2	1:Z2:147:MET:CG	2.46	0.46
2:Z5:269:LEU:HD21	2:Z5:301:MET:SD	2.56	0.46
1:Z8:412:GLU:O	1:Z8:415:MET:HG2	2.16	0.46
2:0B:232:ALA:HA	2:0B:235:ILE:HG22	1.98	0.46
2:0F:246:GLY:HA3	2:0F:356:ASN:HA	1.97	0.46
1:0G:118:ASP:O	1:0G:122:LYS:HG2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0H:74:VAL:O	2:0H:78:VAL:HG23	2.15	0.46
2:0J:330:ALA:O	2:0J:334:THR:HG23	2.15	0.46
2:0L:198:THR:OG1	2:0L:200:VAL:O	2.34	0.46
1:0M:372:THR:HG21	1:0M:426:GLN:HB2	1.98	0.46
1:0O:165:LEU:HD13	1:0O:167:PHE:HZ	1.81	0.46
2:0P:407:TRP:HZ2	1:0Q:258:ILE:HB	1.81	0.46
2:0R:189:LEU:HD11	2:0R:418:PHE:HE1	1.81	0.46
1:0S:246:LEU:O	1:0S:352:SER:OG	2.29	0.46
1:0U:391:ARG:NH2	2:0V:435:VAL:HA	2.31	0.46
1:0U:414:ASN:HA	1:0U:417:ASP:OD2	2.16	0.46
2:0V:320:ARG:O	2:0V:373:ARG:HA	2.16	0.46
1:0W:350:LYS:NZ	1:0W:352:SER:HG	2.12	0.46
2:0X:217:LEU:HB3	2:0X:219:ILE:CD1	2.46	0.46
1:0Y:210:ILE:O	1:0Y:214:THR:OG1	2.24	0.46
1:0Y:382:SER:HB3	1:0Y:415:MET:HG2	1.98	0.46
2:1B:204:LEU:HD22	2:1B:302:MET:HB3	1.98	0.46
1:1E:203:ASP:OD1	1:1E:204:ASN:N	2.49	0.46
1:1E:252:LYS:HE2	1:1E:350:LYS:HE2	1.96	0.46
1:1G:83:GLN:O	1:1W:281:TYR:OH	2.31	0.46
1:1K:69:GLU:C	1:1K:92:PHE:HZ	2.19	0.46
1:1M:276:ARG:NH1	1:1M:279:GLN:HE22	2.13	0.46
2:1T:50:ASN:O	2:1T:64:ARG:NH2	2.47	0.46
2:1X:420:GLU:O	2:1X:424:ASP:HB2	2.15	0.46
2:1Z:318:MET:HB2	2:1Z:376:CYS:HB3	1.97	0.46
1:2E:284:LEU:HD13	1:2E:362:LYS:HE2	1.98	0.46
1:2G:140:GLY:O	1:2G:184:ASN:ND2	2.48	0.46
2:2H:90:GLU:OE1	2:2X:280:LYS:HD2	2.15	0.46
2:2J:26:LEU:HD21	2:2J:363:VAL:HG12	1.97	0.46
2:2L:72:PRO:HD2	1:2M:2:ARG:NH1	2.31	0.46
2:2P:331:SER:O	2:2P:334:THR:OG1	2.27	0.46
2:2T:308:ARG:NH2	38:8A:28:THR:CG2	2.61	0.46
1:2U:201:VAL:HG12	1:2U:266:PHE:O	2.15	0.46
1:2W:86:ARG:HB3	1:2W:89:ASN:OD1	2.16	0.46
1:2Y:117:LEU:HA	1:2Y:120:VAL:HG12	1.98	0.46
2:3D:137:VAL:HG22	2:3D:168:GLY:HA2	1.98	0.46
1:3G:317:PHE:HE2	1:3G:326:VAL:HG13	1.80	0.46
1:3K:58:ARG:NH1	1:3K:84:ILE:HA	2.30	0.46
1:3K:263:LEU:HG	1:3K:422:TYR:CE1	2.49	0.46
2:3L:200:VAL:HG13	2:3L:268:MET:CE	2.46	0.46
2:3L:213:CYS:HA	2:3L:217:LEU:HB2	1.98	0.46
1:3M:233:MET:O	1:3M:236:ILE:HG22	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3N:320:ARG:HE	2:3N:320:ARG:HB3	1.61	0.46
1:3O:60:VAL:HG23	1:3O:60:VAL:O	2.15	0.46
2:3P:56:THR:HG1	3:4F:34:SER:HA	1.78	0.46
2:3R:135:PHE:HB2	2:3R:166:LYS:HG2	1.96	0.46
1:3S:218:THR:OG1	17:5V:213:GLU:OE2	2.34	0.46
2:3T:6:SER:O	2:3T:65:CYS:HA	2.15	0.46
4:4I:126:ASP:OD1	4:4I:126:ASP:N	2.46	0.46
7:4R:286:LYS:HD3	20:6F:339:GLU:OE2	2.16	0.46
10:5A:291:GLU:O	10:5A:294:LEU:HG	2.15	0.46
10:5C:364:ALA:HA	10:5C:367:GLU:OE2	2.16	0.46
13:5K:99:ASN:H	13:5K:99:ASN:HD22	1.63	0.46
14:5L:208:TYR:HD1	14:5L:222:ALA:HA	1.81	0.46
14:5L:399:SER:OG	14:5L:401:TRP:NE1	2.48	0.46
14:5L:454:ILE:O	14:5L:456:ARG:NH2	2.49	0.46
14:5L:512:PHE:N	14:5L:512:PHE:CD2	2.84	0.46
15:5O:238:THR:HG23	15:5O:311:VAL:HB	1.98	0.46
22:6I:204:PHE:CE2	22:6I:205:GLU:HG2	2.50	0.46
22:6O:29:GLU:HG2	22:6O:29:GLU:O	2.16	0.46
22:6O:218:LEU:HD23	22:6O:223:LEU:HD12	1.98	0.46
23:6S:4:LYS:HA	23:6S:4:LYS:HD2	1.45	0.46
24:6T:537:GLU:O	24:6T:541:THR:HG23	2.15	0.46
24:6U:456:ASP:N	24:6U:456:ASP:OD1	2.48	0.46
24:6V:6:PRO:N	24:6V:7:PRO:HD2	2.27	0.46
24:6V:263:ARG:HG3	24:6V:263:ARG:HH21	1.81	0.46
24:6W:95:VAL:HG22	24:6W:124:TYR:HA	1.98	0.46
24:6W:505:LYS:HD2	24:6W:510:GLU:HB3	1.96	0.46
24:6Y:296:TYR:OH	24:6Y:301:ASP:OD1	2.24	0.46
24:6Z:279:TRP:CZ2	24:6Z:364:ARG:HG3	2.50	0.46
30:7K:132:ARG:HB3	30:7K:134:HIS:CD2	2.51	0.46
35:7U:230:LEU:HD23	35:7U:230:LEU:HA	1.80	0.46
28:7X:398:ASP:O	28:7X:401:THR:HG22	2.15	0.46
37:7Y:210:THR:H	37:7Y:213:MET:HE3	1.81	0.46
38:8A:197:THR:HG23	38:8A:200:ALA:CB	2.45	0.46
2:C9:206:ASN:OD1	41:C9:501:GTP:N2	2.47	0.46
1:E0:280:GLN:CD	24:6T:286:TYR:HB2	2.36	0.46
2:F1:12:ALA:HB2	41:F1:501:GTP:C8	2.50	0.46
2:G1:15:GLN:HB3	2:G1:228:ASN:HD21	1.79	0.46
1:G2:414:ASN:HA	1:G2:417:ASP:OD2	2.16	0.46
1:G4:117:LEU:HA	1:G4:120:VAL:HG12	1.97	0.46
1:G4:177:ASP:O	2:G5:352:LYS:HA	2.15	0.46
1:G6:135:VAL:HG21	1:G6:152:ILE:HD11	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G9:187:SER:O	2:G9:191:THR:HG23	2.15	0.46
2:H1:212:ILE:HG23	2:H1:275:ILE:HD12	1.97	0.46
1:H2:337:ASN:HB3	1:H2:340:TYR:CD2	2.51	0.46
1:H4:201:VAL:HG21	1:H4:374:ILE:HD11	1.98	0.46
2:H7:200:VAL:HG13	2:H7:268:MET:HE3	1.98	0.46
2:I1:121:ARG:HD2	2:I1:121:ARG:O	2.16	0.46
1:I8:203:ASP:N	1:I8:203:ASP:OD1	2.48	0.46
1:I8:379:LYS:HG3	1:I8:419:VAL:HG21	1.96	0.46
2:J3:8:HIS:CD2	2:J3:138:PHE:HD2	2.34	0.46
2:J3:246:GLY:HA2	2:J3:357:TYR:CD2	2.51	0.46
1:K0:414:ASN:HA	1:K0:417:ASP:OD2	2.15	0.46
1:K4:77:ARG:HH21	1:K4:90:PHE:HD2	1.63	0.46
2:K5:392:ASP:OD2	2:K5:422:ARG:NH1	2.48	0.46
1:K6:49:VAL:HG11	1:K6:241:ARG:HG2	1.97	0.46
1:L0:309:ARG:NH1	1:L0:339:SER:O	2.48	0.46
1:L2:27:GLU:CD	1:L2:241:ARG:HH12	2.18	0.46
1:L2:334:GLN:HE22	1:L2:347:ASN:N	2.14	0.46
2:L3:156:ARG:HA	2:L3:159:VAL:HG12	1.97	0.46
1:L4:139:LEU:HD12	1:L4:170:VAL:HG12	1.97	0.46
2:L9:8:HIS:CD2	2:L9:138:PHE:HD2	2.33	0.46
1:M2:218:THR:O	2:M3:326:LYS:HE2	2.15	0.46
1:M2:228:LEU:HD12	1:M2:228:LEU:HA	1.79	0.46
2:M7:119:LEU:O	2:M7:122:ILE:HG22	2.16	0.46
2:M7:250:VAL:HB	2:M7:254:GLU:HG3	1.97	0.46
1:N0:135:VAL:HG21	1:N0:152:ILE:HD11	1.96	0.46
1:N2:391:ARG:NH2	2:N3:435:VAL:HA	2.29	0.46
2:N3:217:LEU:HD11	2:N3:275:ILE:HD11	1.98	0.46
2:N5:189:LEU:HD11	2:N5:418:PHE:HE1	1.81	0.46
1:N6:164:MET:O	1:N6:197:ASP:HB2	2.16	0.46
1:N6:232:VAL:HG11	1:N6:268:VAL:HG11	1.96	0.46
2:N7:187:SER:O	2:N7:190:SER:OG	2.27	0.46
1:N8:138:SER:HA	1:N8:169:VAL:HG22	1.96	0.46
2:N9:56:THR:HG21	2:P7:283:HIS:O	2.15	0.46
1:O2:117:LEU:HD23	1:O2:117:LEU:HA	1.84	0.46
1:O4:43:GLN:O	1:O4:47:ILE:HG23	2.16	0.46
1:O6:183:TYR:O	1:O6:187:LEU:HD13	2.15	0.46
2:O7:9:ILE:HG12	2:O7:68:LEU:HD21	1.97	0.46
2:O9:121:ARG:HD2	2:O9:121:ARG:HA	1.71	0.46
2:P3:399:TYR:O	2:P3:402:ARG:NH1	2.47	0.46
1:P4:153:SER:O	1:P4:157:GLU:HG2	2.16	0.46
2:P7:287:SER:OG	2:P7:288:VAL:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q6:198:GLU:HA	1:Q6:264:HIS:HB2	1.97	0.46
2:R1:285:GLN:HG2	7:4R:27:ILE:HG21	1.97	0.46
1:R2:94:GLN:NE2	13:5I:18:ARG:HG2	2.31	0.46
1:R6:172:SER:HB2	1:R6:203:ASP:OD1	2.16	0.46
1:R6:190:HIS:CD2	1:R6:414:ASN:HD22	2.34	0.46
1:R8:391:ARG:HB3	2:R9:346:TRP:CZ3	2.51	0.46
2:R9:274:PRO:HD3	2:R9:374:ALA:HA	1.97	0.46
1:S2:268:VAL:HG23	1:S2:300:MET:HB2	1.97	0.46
1:S4:263:LEU:HD13	1:S4:422:TYR:CE1	2.50	0.46
2:S5:358:GLN:OE1	2:S5:359:PRO:HD2	2.15	0.46
2:S7:370:LYS:HD2	7:4T:277:ALA:HB3	1.98	0.46
1:S8:1:MET:HE2	1:S8:128:ASP:OD2	2.16	0.46
1:S8:172:SER:HB3	1:S8:175:VAL:HG12	1.98	0.46
1:T0:284:LEU:HB3	7:4T:352:ASN:HB2	1.97	0.46
2:T1:327:ASP:CG	7:4U:25:ARG:HH12	2.13	0.46
1:T6:52:ASN:O	1:T6:60:VAL:HG22	2.15	0.46
1:T8:207:LEU:HB3	1:T8:225:LEU:HD22	1.98	0.46
2:U3:142:GLY:O	2:U3:186:ASN:ND2	2.32	0.46
2:V1:205:ASP:OD1	2:V1:303:VAL:HG13	2.16	0.46
1:V2:100:ASN:HB3	1:V2:103:LYS:HB2	1.97	0.46
2:V3:330:ALA:O	2:V3:334:THR:HG23	2.15	0.46
1:V4:3:GLU:HG2	1:V4:129:CYS:O	2.15	0.46
1:V4:95:THR:OG1	1:V4:96:GLY:N	2.47	0.46
2:W5:88:HIS:HB3	2:W5:91:GLN:CD	2.36	0.46
2:W5:286:LEU:HD23	2:W5:286:LEU:HA	1.75	0.46
1:W6:414:ASN:HA	1:W6:417:ASP:OD2	2.15	0.46
2:W7:238:LEU:HD12	2:W7:238:LEU:HA	1.75	0.46
2:X5:322:ASP:OD2	2:X5:373:ARG:NH2	2.48	0.46
1:X6:260:PHE:CD2	1:X6:263:LEU:HD12	2.49	0.46
1:X6:290:THR:HG21	1:X6:329:GLN:HG3	1.98	0.46
2:X7:31:GLN:HB2	2:X7:33:ASP:OD1	2.16	0.46
2:X7:229:ARG:HD3	2:X7:363:VAL:HG21	1.98	0.46
2:X9:3:GLU:O	2:X9:133:GLN:N	2.41	0.46
1:Y0:86:ARG:HG2	1:Y0:88:ASP:H	1.79	0.46
1:Y2:198:GLU:HA	1:Y2:264:HIS:CD2	2.51	0.46
2:Y3:201:ALA:O	2:Y3:268:MET:HE2	2.16	0.46
2:Y3:245:ASP:HA	2:Y3:249:ASN:HD21	1.81	0.46
2:Y5:107:HIS:CD2	2:Y5:152:LEU:HB2	2.51	0.46
2:Y9:148:GLY:O	2:Y9:151:SER:OG	2.29	0.46
1:Z0:265:PHE:HB3	1:Z0:374:ILE:HG12	1.98	0.46
2:Z1:33:ASP:O	2:Z1:60:LYS:NZ	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0A:294:TRP:CG	1:0A:333:VAL:HG21	2.49	0.46
1:0A:391:ARG:HG3	2:0B:346:TRP:CE2	2.51	0.46
2:0B:69:ASP:OD1	2:0B:70:LEU:N	2.47	0.46
1:0I:272:PRO:O	1:0I:273:LEU:HD23	2.15	0.46
2:0L:325:PRO:HA	2:0L:328:VAL:HG12	1.98	0.46
1:0M:253:LEU:HD11	1:0M:316:LEU:HD11	1.98	0.46
2:0P:298:PRO:HA	2:0P:301:MET:HG3	1.98	0.46
1:0Q:2:ARG:HB3	1:0Q:131:GLN:HB2	1.97	0.46
2:0R:233:GLN:O	2:0R:237:SER:OG	2.25	0.46
1:0S:313:ALA:HB3	1:0S:349:VAL:HG22	1.97	0.46
1:0S:375:GLN:HE22	1:0S:423:GLN:HB2	1.81	0.46
2:0X:5:ILE:HG22	2:0X:64:ARG:HB3	1.97	0.46
1:0Y:113:ILE:HD11	1:0Y:151:LEU:HB2	1.96	0.46
2:0Z:217:LEU:HB3	2:0Z:219:ILE:CD1	2.46	0.46
2:1B:212:ILE:O	2:1B:216:SER:OG	2.26	0.46
1:1E:317:PHE:HE2	1:1E:326:VAL:HG13	1.81	0.46
2:1F:26:LEU:HD21	2:1F:364:PRO:HD2	1.98	0.46
1:1G:180:VAL:HG13	1:1G:183:TYR:HB2	1.98	0.46
1:1K:41:ASP:N	1:1K:41:ASP:OD2	2.47	0.46
1:1W:271:THR:HB	1:1W:365:ALA:HB3	1.96	0.46
2:1Z:31:GLN:HB2	2:1Z:33:ASP:OD1	2.16	0.46
2:2B:3:GLU:HG3	2:2B:51:THR:HA	1.97	0.46
2:2B:151:SER:HB2	2:2B:193:SER:OG	2.16	0.46
2:2D:305:CYS:HB3	2:2D:387:ILE:HD11	1.98	0.46
2:2H:185:TYR:HE1	2:2H:398:MET:HE3	1.81	0.46
2:2J:305:CYS:HB3	2:2J:387:ILE:HD11	1.97	0.46
1:2K:178:THR:OG1	1:2K:179:VAL:N	2.49	0.46
2:2P:17:GLY:HA2	2:2P:20:CYS:SG	2.56	0.46
2:2P:145:THR:OG1	41:2Q:501:GTP:O1B	2.33	0.46
2:2P:205:ASP:OD2	2:2P:206:ASN:N	2.48	0.46
2:2P:279:GLU:H	2:2P:279:GLU:HG3	1.57	0.46
1:2Q:244:GLY:H	1:2Q:247:ASN:HD21	1.62	0.46
2:2R:7:ILE:HG13	2:2R:137:VAL:HG13	1.97	0.46
1:2S:31:ASP:OD2	1:2S:33:THR:OG1	2.29	0.46
1:2S:140:GLY:O	1:2S:184:ASN:ND2	2.49	0.46
2:2T:157:LEU:HD23	2:2T:157:LEU:HA	1.73	0.46
2:2X:62:VAL:HG13	2:2X:88:HIS:HD2	1.80	0.46
2:3B:244:PHE:CE1	38:8D:212:PRO:HG3	2.51	0.46
2:3B:291:ILE:HD12	2:3B:375:VAL:HG23	1.97	0.46
1:3C:161:ASP:OD1	1:3C:161:ASP:N	2.47	0.46
2:3D:32:PRO:HB3	2:3D:83:TYR:CE1	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3H:340:THR:HG23	2:3H:341:ILE:HG23	1.98	0.46
2:3L:3:GLU:HB2	2:3L:129:CYS:SG	2.56	0.46
1:3O:395:LEU:O	1:3O:399:THR:HG23	2.16	0.46
2:3R:430:LYS:HA	2:3R:433:GLU:OE2	2.16	0.46
4:4G:172:TYR:HA	4:4G:176:GLU:OE2	2.16	0.46
3:4J:170:GLU:N	3:4J:171:PRO:HD2	2.31	0.46
5:4L:396:GLN:O	5:4L:399:GLU:HG3	2.16	0.46
6:4P:53:ASP:OD2	6:4P:54:THR:N	2.48	0.46
7:4U:136:LEU:O	7:4U:137:THR:HG22	2.15	0.46
7:4U:166:ALA:HA	33:7Q:161:TYR:OH	2.15	0.46
8:4W:217:ARG:O	8:4W:220:ARG:HG3	2.16	0.46
10:5D:136:ALA:O	10:5D:140:MET:HG2	2.15	0.46
11:5E:33:ASP:O	11:5E:37:GLU:HG2	2.15	0.46
11:5E:173:ALA:O	11:5E:176:VAL:HG12	2.14	0.46
13:5H:99:ASN:HD22	13:5H:99:ASN:H	1.63	0.46
14:5L:132:TRP:CZ3	14:5L:139:ALA:HB2	2.51	0.46
14:5L:230:ASN:N	14:5L:230:ASN:OD1	2.48	0.46
14:5M:132:TRP:CZ3	14:5M:139:ALA:HB2	2.51	0.46
14:5N:132:TRP:CZ3	14:5N:139:ALA:HB2	2.51	0.46
15:5P:109:ILE:O	15:5P:113:ILE:HG12	2.15	0.46
15:5P:112:ALA:O	15:5P:115:GLN:HG2	2.14	0.46
18:6C:173:HIS:HB3	18:6C:211:PHE:HB3	1.98	0.46
22:6N:308:HIS:CD2	24:6Y:560:ARG:HH12	2.34	0.46
22:6O:145:SER:HB2	22:6O:148:ASN:OD1	2.16	0.46
24:6T:97:ARG:HD2	24:6T:122:TYR:HE1	1.80	0.46
24:6T:299:GLU:HG3	24:6T:300:ASP:CG	2.36	0.46
24:6T:474:PHE:HD2	24:6T:500:ARG:HH21	1.64	0.46
24:6T:555:THR:HG22	24:6T:612:LEU:HD22	1.97	0.46
24:6U:96:LEU:HD22	24:6U:188:THR:HG22	1.98	0.46
24:6V:88:TRP:CE3	24:6V:89:VAL:HG13	2.50	0.46
24:6V:505:LYS:HG3	24:6V:510:GLU:O	2.15	0.46
24:6X:108:GLU:H	24:6X:108:GLU:HG2	1.59	0.46
24:6X:445:ILE:HG21	24:6X:447:ARG:HE	1.81	0.46
24:6X:519:VAL:HG23	24:6X:607:HIS:ND1	2.30	0.46
12:7B:56:THR:OG1	12:7B:57:THR:N	2.48	0.46
29:7J:88:THR:OG1	29:7J:89:GLY:N	2.48	0.46
38:8B:2:ASN:HB3	38:8B:5:LYS:HB2	1.97	0.46
2:8:29:GLY:O	26:7E:45:MET:HE3	2.13	0.46
2:8:280:LYS:HG2	2:T1:89:PRO:HG3	1.96	0.46
2:B4:223:THR:HG22	18:6A:51:MET:HE3	1.95	0.46
2:C5:41:THR:HG21	24:6T:274:ARG:CZ	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E2:276:ARG:HD3	22:6J:103:ALA:HB3	1.97	0.46
2:F1:88:HIS:HB3	2:G7:283:HIS:CG	2.51	0.46
1:G6:271:THR:HG21	1:G6:293:MET:HG3	1.98	0.46
2:G7:399:TYR:O	2:G7:402:ARG:NH1	2.48	0.46
1:G8:91:VAL:HG11	1:G8:119:VAL:HG11	1.97	0.46
1:G8:175:VAL:HG23	1:G8:175:VAL:O	2.16	0.46
2:H1:62:VAL:HG23	2:H1:88:HIS:HD2	1.81	0.46
2:H3:93:ILE:HD12	2:H3:117:LEU:CD2	2.45	0.46
2:H3:155:GLU:HB2	2:H3:197:HIS:CE1	2.51	0.46
1:H4:180:VAL:HG23	1:H4:184:ASN:ND2	2.31	0.46
2:H9:88:HIS:CG	2:J5:283:HIS:HB3	2.51	0.46
1:I2:50:TYR:OH	1:I2:237:THR:HB	2.16	0.46
1:I2:149:THR:O	1:I2:152:ILE:HG22	2.15	0.46
1:I2:274:THR:OG1	1:I2:282:ARG:NH1	2.48	0.46
1:I4:107:THR:OG1	1:I4:108:GLU:OE1	2.17	0.46
2:I5:163:LYS:HD2	2:I5:163:LYS:HA	1.75	0.46
2:I7:21:TRP:CZ2	2:I7:65:CYS:HB2	2.51	0.46
2:I7:292:THR:OG1	2:I7:331:SER:OG	2.33	0.46
1:J2:71:GLY:HA2	16:5Q:175:LEU:CD2	2.44	0.46
2:J7:55:GLU:HG2	2:J7:61:HIS:CE1	2.51	0.46
2:J7:88:HIS:CE1	2:J7:90:GLU:H	2.33	0.46
1:K0:177:ASP:O	2:K1:352:LYS:HA	2.15	0.46
2:K5:88:HIS:CE1	2:M1:283:HIS:HA	2.50	0.46
2:K9:116:ASP:OD1	2:K9:117:LEU:N	2.48	0.46
1:L6:173:PRO:O	1:L6:176:SER:OG	2.31	0.46
2:L7:155:GLU:O	2:L7:158:SER:OG	2.30	0.46
2:L7:245:ASP:N	2:L7:245:ASP:OD1	2.48	0.46
2:L9:27:GLU:OE2	2:L9:243:ARG:NH1	2.44	0.46
1:M0:283:ALA:O	1:M0:288:GLU:HG2	2.14	0.46
1:M0:309:ARG:NH1	1:M0:339:SER:O	2.48	0.46
2:M1:179:THR:O	1:M2:350:LYS:HG2	2.16	0.46
1:M2:101:TRP:HE3	1:M2:403:MET:HE1	1.81	0.46
2:M5:156:ARG:HA	2:M5:159:VAL:HG12	1.98	0.46
1:M6:125:GLU:CG	37:7Y:93:LYS:HG3	2.45	0.46
2:M9:145:THR:OG1	41:N0:501:GTP:O1B	2.34	0.46
1:N0:49:VAL:HG11	1:N0:241:ARG:HG2	1.96	0.46
2:N1:237:SER:HA	2:N1:320:ARG:HD2	1.97	0.46
2:N5:242:LEU:HD11	2:N5:252:ILE:HG12	1.97	0.46
1:N8:8:GLN:OE1	1:N8:17:GLY:HA3	2.16	0.46
1:N8:175:VAL:HB	2:N9:329:ASN:HD21	1.81	0.46
1:N8:396:HIS:H	1:N8:396:HIS:CD2	2.32	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O1:288:VAL:HG13	2:O1:319:TYR:HE2	1.80	0.46
2:O3:26:LEU:HD13	2:O3:363:VAL:HG12	1.98	0.46
1:O6:6:HIS:CE1	1:O6:8:GLN:HG2	2.51	0.46
1:P4:190:HIS:CD2	1:P4:411:ALA:HA	2.51	0.46
1:P4:213:ARG:HE	1:P4:297:LYS:HE3	1.80	0.46
1:P6:95:THR:HG23	1:P6:96:GLY:H	1.80	0.46
2:Q1:206:ASN:OD1	41:Q2:501:GTP:N2	2.49	0.46
1:Q4:186:THR:HG21	1:Q4:385:PHE:CD1	2.51	0.46
2:Q5:217:LEU:HD21	2:Q5:368:LEU:HD23	1.97	0.46
2:Q9:52:PHE:HZ	2:Q9:239:THR:HG21	1.81	0.46
1:R4:207:LEU:HB3	1:R4:225:LEU:HD22	1.98	0.46
1:R4:272:PRO:HB2	1:R4:282:ARG:HH12	1.80	0.46
1:R4:359:LYS:HA	21:6G:55:TRP:HZ2	1.80	0.46
2:R5:21:TRP:CZ3	2:R5:63:PRO:HB3	2.50	0.46
1:R6:344:TRP:CE3	1:R6:345:ILE:HG13	2.51	0.46
1:R8:180:VAL:HG22	2:R9:258:ASN:HD21	1.79	0.46
2:S1:325:PRO:HA	2:S1:328:VAL:HG12	1.97	0.46
1:S6:207:LEU:HB3	1:S6:225:LEU:HD22	1.98	0.46
2:S7:21:TRP:CZ2	2:S7:65:CYS:HB3	2.50	0.46
1:S8:317:PHE:HE2	1:S8:326:VAL:HG13	1.81	0.46
2:S9:286:LEU:O	2:S9:373:ARG:NH1	2.49	0.46
1:T2:69:GLU:HG2	1:T2:96:GLY:HA2	1.97	0.46
1:T2:337:ASN:HD21	17:5T:48:THR:H	1.64	0.46
2:T3:116:ASP:N	2:T3:116:ASP:OD1	2.49	0.46
2:T3:250:VAL:HG23	2:T3:254:GLU:HG3	1.98	0.46
1:T4:100:ASN:HB3	1:T4:103:LYS:HB2	1.97	0.46
2:T7:33:ASP:N	2:T7:33:ASP:OD1	2.48	0.46
2:U1:119:LEU:HD21	2:U1:156:ARG:HB3	1.98	0.46
2:U1:291:ILE:HA	2:U1:294:ALA:HB3	1.97	0.46
1:U4:271:THR:O	1:U4:365:ALA:N	2.47	0.46
2:U5:90:GLU:HG3	2:U5:121:ARG:NH1	2.31	0.46
2:U7:279:GLU:HG2	2:U7:280:LYS:HD2	1.98	0.46
2:U9:254:GLU:OE1	2:U9:254:GLU:N	2.48	0.46
2:U9:317:LEU:HB3	2:U9:319:TYR:HE1	1.80	0.46
2:V1:406:HIS:HA	2:V1:409:VAL:HG22	1.98	0.46
1:V4:335:ASN:O	1:V4:338:SER:OG	2.33	0.46
1:V6:167:PHE:CE2	1:V6:233:MET:HG2	2.51	0.46
2:V9:60:LYS:HE2	2:V9:88:HIS:CE1	2.51	0.46
1:W4:184:ASN:OD1	1:W4:398:TYR:OH	2.33	0.46
2:W5:88:HIS:CD2	2:W5:121:ARG:HH22	2.34	0.46
2:W7:9:ILE:HG23	2:W7:68:LEU:HD11	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W9:398:MET:HG3	1:X0:346:PRO:HD2	1.98	0.46
1:X4:288:GLU:OE1	1:X4:289:LEU:HD12	2.16	0.46
1:X6:105:HIS:NE2	1:X6:150:LEU:HD13	2.30	0.46
1:X6:207:LEU:HB3	1:X6:225:LEU:HD22	1.97	0.46
1:X6:266:PHE:CE1	1:X6:370:ASN:HB2	2.51	0.46
2:X7:245:ASP:OD1	2:X7:245:ASP:N	2.45	0.46
2:X9:70:LEU:HA	2:X9:95:GLY:HA3	1.98	0.46
1:Y2:251:ARG:O	1:Y2:255:VAL:HG22	2.16	0.46
2:Y3:271:SER:OG	2:Y3:377:MET:HB3	2.16	0.46
2:Y3:333:ALA:O	2:Y3:337:THR:HG23	2.16	0.46
1:Y4:170:VAL:HG22	1:Y4:202:LEU:O	2.15	0.46
1:Y6:395:LEU:O	1:Y6:399:THR:HG23	2.15	0.46
1:Z0:2:ARG:HB3	1:Z0:131:GLN:HB2	1.98	0.46
1:Z0:156:ARG:HD2	1:Z0:156:ARG:HA	1.56	0.46
1:Z2:86:ARG:HH21	1:O1:282:ARG:HA	1.81	0.46
2:Z3:88:HIS:HB3	2:OJ:283:HIS:ND1	2.31	0.46
1:Z4:131:GLN:HE21	1:Z4:250:LEU:HB2	1.81	0.46
1:Z4:249:ASP:OD1	1:Z4:252:LYS:N	2.44	0.46
2:Z5:12:ALA:O	2:Z5:16:VAL:HG23	2.15	0.46
1:Z6:67:ASP:OD2	1:Z6:72:THR:OG1	2.33	0.46
2:Z7:322:ASP:OD2	2:Z7:373:ARG:NH2	2.45	0.46
1:Z8:11:GLN:NE2	39:Z8:501:GDP:O3B	2.49	0.46
1:0A:311:LEU:HD23	1:0A:312:THR:HG23	1.97	0.46
1:0C:418:LEU:O	1:0C:421:GLU:HG2	2.16	0.46
1:0G:175:VAL:O	1:0G:175:VAL:HG23	2.16	0.46
1:0G:297:LYS:HD3	1:0G:297:LYS:HA	1.75	0.46
2:0H:333:ALA:O	2:0H:337:THR:HG23	2.16	0.46
1:0K:7:ILE:O	1:0K:135:VAL:HA	2.15	0.46
1:0K:286:VAL:HG23	1:0K:287:PRO:HD3	1.96	0.46
2:0L:407:TRP:CE2	1:0M:255:VAL:HA	2.51	0.46
1:0Q:86:ARG:HD3	1:0Q:88:ASP:HB2	1.98	0.46
1:0Q:112:LEU:O	1:0Q:116:VAL:HG23	2.15	0.46
2:0R:8:HIS:CD2	2:0R:138:PHE:HD2	2.34	0.46
2:0R:66:ILE:HG13	2:0R:122:ILE:HG22	1.98	0.46
2:0R:398:MET:HG2	1:0S:346:PRO:HD2	1.97	0.46
1:0S:116:VAL:O	1:0S:120:VAL:HG12	2.16	0.46
2:0V:227:LEU:O	2:0V:231:ILE:HG12	2.16	0.46
2:0V:344:VAL:HB	2:0V:346:TRP:NE1	2.31	0.46
1:0W:203:ASP:OD2	1:0W:204:ASN:N	2.49	0.46
1:0W:311:LEU:HD23	1:0W:312:THR:HG23	1.98	0.46
2:0X:50:ASN:O	2:0X:64:ARG:NH2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0Z:288:VAL:O	2:0Z:292:THR:OG1	2.32	0.46
1:1A:345:ILE:O	1:1A:348:ASN:ND2	2.48	0.46
2:1H:5:ILE:HG22	2:1H:64:ARG:HB3	1.98	0.46
2:1H:49:PHE:HD2	2:1H:53:PHE:HB2	1.80	0.46
2:1H:384:ILE:HG23	2:1H:432:PHE:CZ	2.51	0.46
1:1K:334:GLN:NE2	1:1K:348:ASN:H	2.13	0.46
2:1L:19:ALA:O	2:1L:22:GLU:HG3	2.16	0.46
2:1L:121:ARG:HH11	2:1L:121:ARG:CG	2.00	0.46
2:1R:66:ILE:O	2:1R:66:ILE:HG13	2.15	0.46
1:2C:138:SER:OG	1:2C:139:LEU:N	2.48	0.46
1:2C:334:GLN:HE22	1:2C:347:ASN:HA	1.81	0.46
2:2F:119:LEU:HD11	38:8B:73:TRP:CZ2	2.51	0.46
2:2F:287:SER:N	2:2F:290:GLU:OE2	2.41	0.46
2:2F:312:TYR:HB2	2:2F:343:PHE:HD1	1.80	0.46
1:2G:371:SER:OG	1:2G:372:THR:N	2.49	0.46
1:2I:389:PHE:HZ	1:2I:405:GLU:HG3	1.81	0.46
2:2L:261:PRO:HG3	2:2L:313:MET:HE2	1.98	0.46
2:2P:214:ARG:NH2	38:7Z:18:VAL:HA	2.31	0.46
2:2T:76:ASP:OD2	1:2U:46:ARG:NH2	2.48	0.46
2:2V:112:LYS:HG3	2:2V:113:GLU:OE2	2.15	0.46
2:2X:250:VAL:HG23	2:2X:254:GLU:HG3	1.97	0.46
2:2Z:137:VAL:HG22	2:2Z:168:GLY:HA2	1.98	0.46
1:3A:77:ARG:HH22	38:8D:220:VAL:HG23	1.80	0.46
2:3H:124:LYS:HZ2	3:3X:36:PHE:HD1	1.64	0.46
2:3H:345:ASP:N	2:3H:345:ASP:OD1	2.48	0.46
2:3J:236:SER:OG	2:3J:243:ARG:NH2	2.49	0.46
1:3K:68:LEU:HD21	1:3K:112:LEU:HD22	1.98	0.46
1:3K:285:THR:OG1	1:3K:287:PRO:HD2	2.15	0.46
1:3K:292:GLN:HG2	1:3K:298:ASN:ND2	2.30	0.46
1:3K:387:ALA:HA	1:3K:390:ARG:HE	1.80	0.46
2:3N:239:THR:HG23	2:3N:243:ARG:HE	1.80	0.46
2:3T:417:GLU:HA	2:3T:420:GLU:HG2	1.97	0.46
4:3Y:172:TYR:HA	4:3Y:176:GLU:OE2	2.16	0.46
3:3Z:158:LEU:HD12	3:3Z:194:VAL:HG11	1.98	0.46
3:3Z:229:ASP:HB3	3:3Z:230:LEU:HD23	1.97	0.46
3:4D:158:LEU:HD12	3:4D:194:VAL:HG11	1.98	0.46
3:4F:229:ASP:HB3	3:4F:230:LEU:HD23	1.97	0.46
3:4H:158:LEU:HD12	3:4H:194:VAL:HG11	1.98	0.46
5:4M:293:LEU:HD13	5:4M:296:GLU:OE2	2.16	0.46
6:4O:103:ARG:O	6:4O:103:ARG:NH1	2.42	0.46
6:4O:182:ALA:O	6:4O:186:GLU:HG2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:4W:341:ALA:O	8:4W:344:GLU:HG2	2.16	0.46
9:4Y:400:ARG:HA	9:4Y:403:GLU:OE1	2.15	0.46
10:5C:312:ALA:O	10:5C:315:GLU:HG3	2.15	0.46
12:5F:32:GLN:N	12:5F:32:GLN:OE1	2.49	0.46
13:5I:99:ASN:H	13:5I:99:ASN:HD22	1.63	0.46
13:5J:99:ASN:H	13:5J:99:ASN:HD22	1.63	0.46
14:5N:221:ILE:HA	14:5N:228:PHE:HA	1.97	0.46
15:5O:280:GLU:OE1	27:7G:90:MET:HG3	2.16	0.46
15:5P:54:GLU:HB3	15:5P:55:LEU:HD23	1.97	0.46
17:5R:53:ASP:N	17:5R:53:ASP:OD2	2.49	0.46
18:5Y:180:ARG:O	18:5Y:184:THR:HG23	2.15	0.46
18:5Z:173:HIS:HB3	18:5Z:211:PHE:HB3	1.98	0.46
18:6A:173:HIS:HB3	18:6A:211:PHE:HB3	1.98	0.46
18:6A:180:ARG:O	18:6A:184:THR:HG23	2.15	0.46
18:6B:173:HIS:HB3	18:6B:211:PHE:HB3	1.98	0.46
18:6B:180:ARG:O	18:6B:184:THR:HG23	2.15	0.46
18:6D:173:HIS:HB3	18:6D:211:PHE:HB3	1.98	0.46
20:6F:370:LEU:CD2	20:6F:384:LEU:HB2	2.44	0.46
21:6G:24:TYR:OH	21:6G:90:THR:HG21	2.16	0.46
21:6H:89:ILE:HG12	21:6H:93:HIS:HB2	1.97	0.46
22:6I:220:ASP:OD1	22:6I:221:ASP:N	2.48	0.46
22:6J:172:ARG:HH12	22:6J:215:GLY:HA3	1.79	0.46
22:6M:289:ASP:OD2	22:6M:289:ASP:N	2.49	0.46
24:6T:252:LYS:HE3	24:6T:256:LEU:HB2	1.98	0.46
24:6W:8:ILE:HG13	24:6W:9:PRO:HD2	1.97	0.46
24:6W:37:ASN:HD22	24:6W:37:ASN:N	2.14	0.46
24:6X:480:ASN:OD1	24:6X:480:ASN:N	2.41	0.46
24:6X:505:LYS:HD2	24:6X:510:GLU:HB3	1.97	0.46
24:6X:556:ASP:OD1	24:6X:557:VAL:N	2.48	0.46
24:6X:565:GLN:OE1	24:6X:602:LEU:HB2	2.16	0.46
24:6Y:94:LYS:HB3	24:6Y:187:PHE:HZ	1.79	0.46
24:6Y:507:ARG:HA	24:6Y:507:ARG:NH2	2.31	0.46
24:6Y:569:LYS:HB2	24:6Y:572:ALA:HB3	1.97	0.46
24:6Z:487:VAL:CG1	24:6Z:490:THR:HG23	2.45	0.46
31:7M:39:LEU:HD22	31:7M:43:VAL:HG11	1.97	0.46
32:7O:74:LYS:O	32:7O:75:THR:HG22	2.16	0.46
38:8D:159:TYR:CD1	38:8D:159:TYR:C	2.88	0.46
1:D4:47:ILE:HD11	22:6N:23:TYR:CD2	2.49	0.46
2:E9:358:GLN:NE2	22:6M:94:SER:OG	2.49	0.46
2:F5:88:HIS:HB3	2:H1:283:HIS:ND1	2.31	0.46
2:G5:56:THR:HG23	2:G5:60:LYS:HE2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G6:117:LEU:HD11	1:G6:154:LYS:HB3	1.97	0.46
1:G8:173:PRO:O	1:G8:176:SER:OG	2.34	0.46
1:G8:345:ILE:HB	1:G8:348:ASN:HD21	1.80	0.46
1:I4:208:TYR:HA	1:I4:211:CYS:SG	2.55	0.46
2:I7:22:GLU:HG3	2:I7:83:TYR:OH	2.16	0.46
2:I7:76:ASP:OD2	1:I8:46:ARG:NH2	2.49	0.46
1:I8:114:ASP:N	1:I8:114:ASP:OD1	2.48	0.46
2:I9:178:SER:HB2	1:J0:347:ASN:CG	2.35	0.46
2:J1:2:ARG:HA	2:J1:133:GLN:HE21	1.81	0.46
2:J1:278:ALA:HA	2:J1:369:ALA:HB2	1.97	0.46
1:J6:130:LEU:HB2	1:J6:162:ARG:HE	1.81	0.46
2:L1:352:LYS:NZ	2:L1:353:CYS:O	2.47	0.46
1:L2:2:ARG:HB3	1:L2:131:GLN:HB2	1.98	0.46
1:L2:39:ASP:OD1	1:L2:39:ASP:N	2.41	0.46
2:L3:370:LYS:HE2	2:L3:370:LYS:HB2	1.60	0.46
2:L5:333:ALA:O	2:L5:337:THR:HG23	2.15	0.46
1:L6:339:SER:OG	34:7S:140:ASN:ND2	2.48	0.46
2:L7:149:LEU:HA	2:L7:152:LEU:HB3	1.98	0.46
2:L9:384:ILE:HA	2:L9:387:ILE:HD12	1.98	0.46
1:M0:345:ILE:O	1:M0:348:ASN:ND2	2.49	0.46
1:M2:3:GLU:HB2	1:M2:130:LEU:HA	1.98	0.46
2:M3:189:LEU:HD11	2:M3:418:PHE:HE1	1.81	0.46
1:M4:391:ARG:HD3	2:M5:346:TRP:HE1	1.81	0.46
2:M9:69:ASP:OD1	2:M9:71:GLU:HG2	2.15	0.46
2:N3:191:THR:HA	2:N3:194:LEU:HB3	1.98	0.46
2:N7:79:ARG:NH1	2:N7:94:SER:OG	2.49	0.46
2:N7:192:HIS:ND1	2:N7:192:HIS:O	2.48	0.46
1:O2:219:THR:O	1:O2:219:THR:OG1	2.33	0.46
2:O3:333:ALA:O	2:O3:337:THR:HG23	2.16	0.46
2:O7:305:CYS:HB3	2:O7:387:ILE:HD11	1.98	0.46
1:O8:11:GLN:N	39:O8:503:GDP:O1B	2.35	0.46
1:Q0:86:ARG:NH1	1:Q0:89:ASN:OD1	2.48	0.46
2:Q1:240:ALA:HB1	2:Q1:356:ASN:HD22	1.81	0.46
2:Q3:133:GLN:HB3	2:Q3:252:ILE:HG21	1.98	0.46
1:Q4:371:SER:OG	1:Q4:372:THR:N	2.49	0.46
2:Q5:245:ASP:N	2:Q5:245:ASP:OD1	2.49	0.46
2:Q5:265:ILE:HD11	2:Q5:435:VAL:HG21	1.97	0.46
2:Q5:333:ALA:O	2:Q5:337:THR:HG23	2.16	0.46
1:Q8:152:ILE:HD12	1:Q8:164:MET:SD	2.56	0.46
2:R1:279:GLU:N	2:R1:279:GLU:OE1	2.48	0.46
2:R5:62:VAL:O	2:R5:62:VAL:HG13	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R6:177:ASP:N	1:R6:181:GLU:OE2	2.48	0.46
1:R8:95:THR:HG23	1:R8:96:GLY:H	1.80	0.46
2:R9:102:ASN:HB3	2:R9:105:ARG:HB3	1.98	0.46
2:S1:91:GLN:HG2	2:S1:121:ARG:NH2	2.30	0.46
2:S9:68:LEU:HA	2:S9:93:ILE:O	2.15	0.46
1:T2:173:PRO:HB3	1:T2:384:GLN:NE2	2.30	0.46
1:T4:232:VAL:HG13	1:T4:268:VAL:HG11	1.98	0.46
1:T6:56:GLY:N	26:7F:104:GLN:HE22	2.13	0.46
2:U1:49:PHE:HB2	2:U1:53:PHE:HD2	1.80	0.46
1:U2:105:HIS:NE2	1:U2:150:LEU:HD13	2.31	0.46
1:U4:177:ASP:OD1	2:U5:248:LEU:HD11	2.16	0.46
1:U6:52:ASN:OD1	1:U6:62:ARG:NH2	2.49	0.46
1:U6:201:VAL:HG12	1:U6:266:PHE:O	2.16	0.46
1:U6:207:LEU:HB3	1:U6:225:LEU:HD22	1.98	0.46
1:V0:233:MET:O	1:V0:237:THR:HG22	2.16	0.46
1:V2:3:GLU:HG2	1:V2:129:CYS:O	2.15	0.46
1:V4:207:LEU:HB3	1:V4:225:LEU:HD22	1.98	0.46
1:V6:178:THR:HA	2:V7:352:LYS:HD2	1.97	0.46
2:V7:280:LYS:O	2:V7:283:HIS:HB3	2.15	0.46
1:V8:249:ASP:O	1:V8:253:LEU:HG	2.16	0.46
2:V9:5:ILE:O	2:V9:136:LEU:HD23	2.16	0.46
1:W0:67:ASP:N	1:W0:67:ASP:OD1	2.49	0.46
1:W0:304:ASP:HB3	1:W0:307:HIS:CG	2.51	0.46
2:W9:96:LYS:O	2:W9:97:GLU:HG3	2.15	0.46
1:X2:309:ARG:H	1:X2:372:THR:HG22	1.81	0.46
2:X3:5:ILE:HD13	2:X3:125:LEU:HD23	1.98	0.46
2:X3:70:LEU:HD23	2:X3:145:THR:HG23	1.97	0.46
1:X4:101:TRP:CZ3	1:X4:187:LEU:HD23	2.51	0.46
2:X5:21:TRP:CZ2	2:X5:65:CYS:HB2	2.51	0.46
2:X5:392:ASP:OD2	2:X5:422:ARG:NH1	2.49	0.46
1:X6:6:HIS:HA	1:X6:134:GLN:O	2.16	0.46
1:X6:273:LEU:H	1:X6:292:GLN:NE2	2.14	0.46
1:X6:279:GLN:NE2	8:4W:184:VAL:HG22	2.25	0.46
1:Y2:273:LEU:H	1:Y2:292:GLN:HE22	1.63	0.46
1:Z0:190:HIS:HD2	1:Z0:414:ASN:HB2	1.81	0.46
2:Z1:185:TYR:HE1	2:Z1:398:MET:HG2	1.81	0.46
1:Z2:70:PRO:HG2	2:Z3:2:ARG:HH11	1.80	0.46
1:Z2:379:LYS:HA	1:Z2:382:SER:OG	2.15	0.46
1:Z4:337:ASN:HB2	1:Z4:340:TYR:HD2	1.79	0.46
2:Z5:187:SER:O	2:Z5:190:SER:OG	2.23	0.46
1:Z6:130:LEU:HG	1:Z6:132:GLY:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z6:389:PHE:O	1:Z6:392:LYS:NZ	2.36	0.46
1:Z8:235:GLY:O	1:Z8:316:LEU:HD23	2.16	0.46
2:0B:65:CYS:SG	2:0B:66:ILE:N	2.89	0.46
1:0C:139:LEU:HD12	1:0C:170:VAL:HA	1.98	0.46
1:0C:244:GLY:HA3	1:0C:354:CYS:HA	1.97	0.46
1:0E:332:ASN:HA	1:0E:335:ASN:ND2	2.30	0.46
2:0F:276:ILE:HG23	2:0F:280:LYS:HB3	1.97	0.46
2:0P:217:LEU:HB3	2:0P:219:ILE:CD1	2.46	0.46
1:0Q:183:TYR:HB3	1:0Q:398:TYR:HE2	1.80	0.46
2:0R:353:CYS:SG	2:0R:354:GLY:N	2.89	0.46
2:0V:129:CYS:SG	2:0V:132:LEU:HD12	2.56	0.46
2:0V:176:GLN:HG2	2:0V:177:VAL:N	2.30	0.46
1:0W:418:LEU:O	1:0W:421:GLU:HG2	2.16	0.46
2:0X:111:GLY:O	2:0X:115:VAL:HG12	2.16	0.46
2:0X:241:SER:OG	2:0X:250:VAL:O	2.29	0.46
2:0X:253:THR:O	2:0X:256:GLN:HB3	2.16	0.46
2:0X:362:VAL:HG12	2:0X:368:LEU:HG	1.98	0.46
2:1B:4:VAL:HG23	2:1B:134:GLY:O	2.16	0.46
1:1C:66:MET:SD	1:1C:91:VAL:HG13	2.56	0.46
1:1C:392:LYS:HB3	1:1C:395:LEU:HD22	1.98	0.46
2:1D:199:ASP:HB3	2:1D:256:GLN:HE22	1.77	0.46
2:1F:123:ARG:NH1	2:1F:160:ASP:OD2	2.49	0.46
2:1H:71:GLU:HG2	2:1H:73:THR:HG22	1.98	0.46
2:1H:377:MET:O	2:1H:378:ILE:HD13	2.15	0.46
2:1H:404:PHE:HB3	2:1H:407:TRP:CD1	2.51	0.46
1:1O:50:TYR:CE2	1:1O:241:ARG:HD3	2.50	0.46
2:1P:223:THR:HG22	2:1P:224:TYR:N	2.30	0.46
2:1X:286:LEU:O	2:1X:373:ARG:NH1	2.48	0.46
1:2C:209:ASP:N	1:2C:209:ASP:OD1	2.48	0.46
1:2C:279:GLN:HE22	1:2C:282:ARG:HD3	1.81	0.46
1:2C:418:LEU:HG	1:2C:422:TYR:CE2	2.38	0.46
1:2E:189:VAL:O	1:2E:193:VAL:HG13	2.16	0.46
1:2E:257:LEU:HA	1:2E:312:THR:HG21	1.96	0.46
2:2L:325:PRO:HA	2:2L:328:VAL:HG22	1.97	0.46
2:2N:124:LYS:HA	2:2N:127:ASP:HB2	1.98	0.46
1:2Q:186:THR:HG23	1:2Q:415:MET:HG3	1.97	0.46
1:2Q:306:ARG:CD	38:8A:96:GLY:CA	2.67	0.46
2:2R:333:ALA:O	2:2R:337:THR:HG23	2.15	0.46
2:2T:305:CYS:CB	2:2T:387:ILE:HD11	2.45	0.46
1:2U:403:MET:HB2	1:2U:403:MET:HE3	1.70	0.46
2:2V:271:SER:OG	2:2V:301:MET:HG2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2Z:56:THR:HA	2:3P:285:GLN:HB2	1.98	0.46
2:3B:121:ARG:HD2	2:3B:121:ARG:O	2.16	0.46
2:3D:66:ILE:HD12	2:3D:68:LEU:HD23	1.98	0.46
2:3F:236:SER:O	2:3F:243:ARG:NH2	2.48	0.46
1:3G:30:ILE:CD1	1:3G:59:TYR:HB2	2.46	0.46
1:3G:156:ARG:NH1	1:3G:197:ASP:OD2	2.49	0.46
1:3G:209:ASP:N	1:3G:209:ASP:OD1	2.47	0.46
2:3J:72:PRO:HD2	1:3K:2:ARG:NH1	2.31	0.46
2:3J:336:LYS:HZ1	2:3J:349:THR:HA	1.81	0.46
1:3K:100:ASN:HB3	1:3K:103:LYS:HB2	1.98	0.46
1:3K:108:GLU:HA	1:3K:111:GLU:OE2	2.16	0.46
1:3O:178:THR:OG1	1:3O:181:GLU:HG3	2.16	0.46
2:3P:414:GLU:N	2:3P:414:GLU:OE1	2.48	0.46
1:3S:239:CYS:SG	1:3S:248:ALA:N	2.87	0.46
2:3T:79:ARG:O	2:3T:84:ARG:HG2	2.15	0.46
3:3V:158:LEU:HD12	3:3V:194:VAL:HG11	1.98	0.46
3:4B:158:LEU:HD12	3:4B:194:VAL:HG11	1.98	0.46
3:4D:229:ASP:HB3	3:4D:230:LEU:HD23	1.97	0.46
3:4F:158:LEU:HD12	3:4F:194:VAL:HG11	1.98	0.46
4:4I:172:TYR:HA	4:4I:176:GLU:OE2	2.16	0.46
6:4O:89:ARG:HH12	30:7K:452:LEU:H	1.62	0.46
6:4O:377:ALA:HA	6:4O:380:ARG:NE	2.30	0.46
6:4O:465:GLU:OE2	6:4P:139:ILE:HD13	2.15	0.46
7:4T:357:GLU:OE2	7:4T:357:GLU:N	2.49	0.46
9:4Z:367:GLU:HB3	9:4Z:371:LYS:NZ	2.31	0.46
14:5L:455:GLY:N	14:5L:458:SER:O	2.47	0.46
14:5L:577:VAL:HG23	14:5L:594:HIS:CE1	2.49	0.46
14:5M:455:GLY:N	14:5M:458:SER:O	2.47	0.46
15:5O:226:ARG:HG2	15:5O:226:ARG:NH1	2.16	0.46
15:5P:146:VAL:HA	15:5P:149:LEU:HG	1.97	0.46
17:5S:181:LEU:C	17:5S:181:LEU:CD2	2.83	0.46
18:5X:173:HIS:HB3	18:5X:211:PHE:HB3	1.98	0.46
18:5Y:173:HIS:HB3	18:5Y:211:PHE:HB3	1.98	0.46
18:5Z:180:ARG:O	18:5Z:184:THR:HG23	2.15	0.46
18:6C:180:ARG:O	18:6C:184:THR:HG23	2.15	0.46
22:6I:170:ARG:NE	22:6I:174:GLU:OE2	2.48	0.46
22:6J:220:ASP:OD2	22:6J:221:ASP:N	2.48	0.46
22:6M:53:THR:HA	22:6M:57:THR:CG2	2.45	0.46
22:6M:307:ARG:O	22:6M:311:VAL:HG23	2.16	0.46
24:6U:33:LEU:HD12	24:6U:33:LEU:H	1.80	0.46
24:6U:290:ARG:HG3	24:6U:291:PRO:HD2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:6U:512:TYR:CZ	24:6U:523:ILE:HG23	2.51	0.46
24:6Y:103:LYS:HG2	24:6Y:116:ILE:HG12	1.97	0.46
30:7K:360:ALA:O	30:7K:364:LEU:HD23	2.16	0.46
33:7Q:137:LEU:HD23	33:7Q:137:LEU:HA	1.82	0.46
2:A0:282:TYR:OH	24:6X:89:VAL:HG21	2.15	0.46
1:A7:276:ARG:NH2	24:6T:210:VAL:HG21	2.30	0.46
1:D6:47:ILE:HD11	22:6O:23:TYR:CD2	2.50	0.46
2:E5:279:GLU:OE2	22:6L:36:VAL:HG23	2.16	0.46
2:G5:12:ALA:HB2	41:G5:501:GTP:C8	2.51	0.46
2:H1:201:ALA:O	2:H1:268:MET:HE2	2.16	0.46
2:H1:298:PRO:HA	2:H1:301:MET:HG3	1.98	0.46
2:H3:83:TYR:HB3	2:H3:86:LEU:HB3	1.97	0.46
1:H4:238:CYS:SG	1:H4:318:ARG:NE	2.88	0.46
2:I1:119:LEU:O	2:I1:122:ILE:HG22	2.16	0.46
1:I2:4:ILE:HB	1:I2:50:TYR:CE1	2.51	0.46
1:I2:405:GLU:OE1	1:I2:405:GLU:N	2.49	0.46
2:I3:217:LEU:HB3	2:I3:219:ILE:CD1	2.46	0.46
2:I7:111:GLY:HA2	2:I7:114:ILE:HG22	1.97	0.46
2:I7:204:LEU:HD23	2:I7:231:ILE:HD12	1.98	0.46
1:J0:40:SER:CB	28:7H:413:TYR:CD1	2.98	0.46
2:J1:155:GLU:O	2:J1:158:SER:OG	2.31	0.46
2:K1:211:ASP:OD2	2:K1:215:ARG:NH1	2.48	0.46
1:K6:70:PRO:N	1:K6:92:PHE:HZ	2.12	0.46
1:K6:345:ILE:HB	1:K6:348:ASN:HD21	1.80	0.46
2:K7:52:PHE:CE2	2:K7:243:ARG:HD3	2.51	0.46
1:K8:293:MET:HG3	1:K8:367:PHE:HB2	1.98	0.46
1:L2:404:ASP:HB3	1:L2:406:MET:SD	2.55	0.46
1:L4:204:ASN:ND2	39:L4:502:GDP:HN22	2.14	0.46
1:L6:77:ARG:HH21	1:L6:90:PHE:HD2	1.63	0.46
1:L6:306:ARG:HH12	28:7X:453:SER:HA	1.78	0.46
2:L7:394:LYS:HA	2:L7:397:LEU:HG	1.97	0.46
2:L9:22:GLU:O	2:L9:26:LEU:HD23	2.16	0.46
1:M0:207:LEU:HB3	1:M0:225:LEU:HD22	1.98	0.46
1:M0:273:LEU:H	1:M0:292:GLN:NE2	2.14	0.46
2:M5:9:ILE:HD13	2:M5:150:GLY:HA2	1.98	0.46
2:M5:287:SER:OG	2:M5:288:VAL:N	2.48	0.46
1:M6:274:THR:HG21	1:M6:282:ARG:HD2	1.98	0.46
2:M7:79:ARG:CB	19:6E:24:TRP:HH2	2.27	0.46
2:M7:137:VAL:HG22	2:M7:168:GLY:HA2	1.98	0.46
1:M8:418:LEU:O	1:M8:422:TYR:HD2	1.99	0.46
1:N0:46:ARG:CZ	20:6F:12:LEU:HD11	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N0:324:LYS:O	1:N0:328:GLU:HG3	2.16	0.46
2:N1:221:ARG:NH2	30:7L:309:ASP:HB3	2.30	0.46
1:N2:70:PRO:HG2	2:N3:2:ARG:HH11	1.80	0.46
1:N2:314:SER:OG	1:N2:368:ILE:HB	2.16	0.46
2:N7:170:THR:HG21	2:N7:194:LEU:HD11	1.98	0.46
2:N9:222:PRO:HD2	1:O0:324:LYS:HE3	1.96	0.46
1:O2:42:LEU:HD13	1:O2:356:ILE:HD11	1.97	0.46
2:O3:109:THR:OG1	2:O3:110:ILE:HD12	2.15	0.46
2:O3:114:ILE:HG21	2:O3:149:LEU:HD22	1.98	0.46
2:O3:246:GLY:HA2	2:O3:357:TYR:CD2	2.51	0.46
2:O5:324:VAL:HG12	2:O5:327:ASP:OD1	2.16	0.46
1:O6:65:LEU:HD13	1:O6:90:PHE:CE1	2.51	0.46
2:O7:384:ILE:HA	2:O7:387:ILE:HD12	1.98	0.46
1:R0:54:ALA:HB3	1:R0:58:ARG:HB3	1.97	0.46
1:R0:117:LEU:HD11	1:R0:154:LYS:HB3	1.97	0.46
2:R5:56:THR:CG2	2:R5:60:LYS:HB3	2.38	0.46
1:R8:58:ARG:HH22	21:6H:41:LYS:HB2	1.81	0.46
2:R9:47:ASP:OD1	2:R9:50:ASN:HB2	2.16	0.46
2:R9:183:GLU:HG3	2:R9:184:PRO:HD3	1.98	0.46
2:S1:79:ARG:O	2:S1:84:ARG:HG2	2.16	0.46
2:S1:155:GLU:OE1	2:S1:197:HIS:HE1	1.98	0.46
1:S4:172:SER:OG	1:S4:173:PRO:HD2	2.15	0.46
1:S6:192:LEU:HD23	1:S6:192:LEU:HA	1.78	0.46
1:S6:359:LYS:HE2	31:7M:26:TRP:HZ2	1.80	0.46
2:S9:8:HIS:CD2	2:S9:138:PHE:HD2	2.34	0.46
2:S9:73:THR:OG1	2:S9:74:VAL:N	2.49	0.46
2:S9:156:ARG:HA	2:S9:159:VAL:HG22	1.98	0.46
2:S9:211:ASP:OD1	2:S9:214:ARG:NH1	2.48	0.46
1:T0:36:TYR:CG	1:T0:44:LEU:HD21	2.50	0.46
1:T0:272:PRO:HB2	1:T0:282:ARG:HH12	1.81	0.46
1:T2:317:PHE:HE2	1:T2:326:VAL:HG13	1.81	0.46
2:T3:274:PRO:HD3	2:T3:374:ALA:HA	1.98	0.46
1:T6:226:ASN:HA	1:T6:229:ILE:HB	1.97	0.46
1:U2:211:CYS:HB2	1:U2:217:LEU:HD12	1.98	0.46
2:U3:88:HIS:CE1	2:V9:283:HIS:HA	2.50	0.46
1:U4:100:ASN:HB3	1:U4:103:LYS:HB2	1.98	0.46
1:U4:375:GLN:HB3	1:U4:422:TYR:CD2	2.45	0.46
2:U5:203:MET:HE1	2:U5:267:PHE:CB	2.44	0.46
1:V2:338:SER:O	1:V2:338:SER:OG	2.28	0.46
2:V7:58:ALA:HB3	8:4V:421:THR:HG23	1.97	0.46
2:V9:9:ILE:HD13	2:V9:150:GLY:HA2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W6:418:LEU:O	1:W6:421:GLU:HG2	2.16	0.46
2:W7:51:THR:HG21	2:W7:243:ARG:HG2	1.97	0.46
2:W7:207:GLU:OE1	2:W7:304:LYS:HD3	2.16	0.46
2:W7:301:MET:HE1	2:W7:307:PRO:HD3	1.97	0.46
2:W7:312:TYR:HD2	2:W7:315:CYS:SG	2.39	0.46
2:W9:79:ARG:HG3	2:W9:92:LEU:HD23	1.96	0.46
1:X2:287:PRO:HA	1:X2:329:GLN:NE2	2.31	0.46
1:X4:20:PHE:HA	1:X4:230:SER:OG	2.16	0.46
1:X6:183:TYR:O	1:X6:187:LEU:HD13	2.16	0.46
2:X7:6:SER:OG	2:X7:136:LEU:HB2	2.15	0.46
1:X8:100:ASN:HB3	1:X8:103:LYS:HB2	1.98	0.46
2:Y1:89:PRO:HD2	2:Z7:283:HIS:ND1	2.31	0.46
2:Y1:224:TYR:HD1	2:Y1:227:LEU:HD12	1.80	0.46
1:Y2:309:ARG:H	1:Y2:372:THR:HG22	1.81	0.46
1:Y4:165:LEU:HD11	1:Y4:250:LEU:HD13	1.98	0.46
2:Y5:88:HIS:CE1	2:0B:283:HIS:HA	2.51	0.46
1:Y8:317:PHE:CE2	1:Y8:326:VAL:HG13	2.51	0.46
2:Y9:137:VAL:HG23	2:Y9:168:GLY:HA2	1.98	0.46
2:Z1:296:PHE:CE2	2:Z1:335:ILE:HD13	2.51	0.46
1:Z8:172:SER:HB3	1:Z8:205:GLU:OE2	2.16	0.46
1:0C:170:VAL:HG12	1:0C:202:LEU:O	2.16	0.46
1:0E:198:GLU:HA	1:0E:264:HIS:CD2	2.51	0.46
2:0J:205:ASP:OD1	2:0J:206:ASN:N	2.49	0.46
2:0J:208:ALA:O	2:0J:212:ILE:HG12	2.15	0.46
2:0L:145:THR:OG1	41:0M:501:GTP:O1B	2.32	0.46
2:0L:252:ILE:HD12	2:0L:255:PHE:CD2	2.50	0.46
2:0N:121:ARG:HD2	2:0N:124:LYS:HE3	1.97	0.46
1:0Q:40:SER:OG	1:0Q:42:LEU:HG	2.16	0.46
1:0Q:67:ASP:OD2	1:0Q:72:THR:OG1	2.23	0.46
2:0R:274:PRO:HB2	2:0R:276:ILE:HG12	1.98	0.46
1:0S:182:PRO:HG2	1:0S:388:MET:CE	2.46	0.46
2:0V:290:GLU:HA	2:0V:293:ASN:HD22	1.80	0.46
2:0X:176:GLN:NE2	2:0X:304:LYS:HE2	2.30	0.46
2:0X:260:VAL:HG23	2:0X:260:VAL:O	2.16	0.46
1:0Y:86:ARG:HG2	1:0Y:88:ASP:H	1.80	0.46
1:0Y:248:ALA:HA	1:0Y:252:LYS:HD2	1.97	0.46
2:0Z:417:GLU:HA	2:0Z:420:GLU:HG2	1.98	0.46
2:1D:93:ILE:HD12	2:1D:117:LEU:HD21	1.98	0.46
1:1E:1:MET:CE	1:1E:2:ARG:HG3	2.44	0.46
1:1E:165:LEU:HD13	1:1E:167:PHE:CZ	2.50	0.46
1:1E:244:GLY:H	1:1E:247:ASN:HD21	1.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1F:224:TYR:O	2:1F:228:ASN:ND2	2.39	0.46
1:1G:97:ALA:HA	1:1G:103:LYS:HE3	1.97	0.46
2:1L:88:HIS:CG	2:1L:89:PRO:CD	2.99	0.46
2:1L:266:HIS:O	2:1L:266:HIS:ND1	2.47	0.46
1:1M:8:GLN:O	1:1M:66:MET:HG3	2.15	0.46
1:1M:317:PHE:HB3	1:1M:321:MET:SD	2.55	0.46
2:1N:121:ARG:HD2	2:1N:124:LYS:HE3	1.98	0.46
2:1X:298:PRO:HA	2:1X:301:MET:HG3	1.98	0.46
1:2C:75:SER:O	1:2C:78:SER:OG	2.29	0.46
1:2C:201:VAL:HG22	1:2C:266:PHE:O	2.16	0.46
2:2H:123:ARG:NH2	38:8B:37:TYR:CB	2.78	0.46
1:2I:301:CYS:SG	1:2I:302:ALA:N	2.88	0.46
2:2J:58:ALA:O	10:5C:431:LYS:HE3	2.15	0.46
1:2M:170:VAL:HG22	1:2M:202:LEU:O	2.16	0.46
2:2N:251:ASP:OD1	2:2N:253:THR:HG22	2.15	0.46
2:2R:251:ASP:OD2	2:2R:253:THR:N	2.48	0.46
1:2S:333:VAL:HG22	38:8A:54:THR:HG22	1.98	0.46
2:2T:51:THR:HG21	2:2T:243:ARG:HG2	1.98	0.46
1:2U:117:LEU:HG	1:2U:121:ARG:NH2	2.31	0.46
2:2V:88:HIS:HB2	2:3L:283:HIS:ND1	2.30	0.46
1:2W:273:LEU:H	1:2W:292:GLN:NE2	2.14	0.46
1:2W:325:GLU:O	1:2W:329:GLN:HG2	2.16	0.46
2:2X:195:LEU:HD11	2:2X:428:LEU:HD22	1.98	0.46
1:2Y:68:LEU:HG	1:2Y:147:MET:HE1	1.98	0.46
1:3A:376:GLU:HA	1:3A:379:LYS:HD2	1.98	0.46
1:3C:212:PHE:CZ	38:8D:117:TRP:HB3	2.51	0.46
1:3C:236:ILE:HG23	1:3C:237:THR:HG23	1.98	0.46
2:3D:280:LYS:O	2:3D:283:HIS:HB3	2.16	0.46
2:3F:88:HIS:HE1	3:3V:34:SER:CB	2.29	0.46
2:3H:417:GLU:HA	2:3H:420:GLU:HG2	1.98	0.46
2:3J:21:TRP:CZ2	2:3J:65:CYS:HB3	2.51	0.46
2:3J:221:ARG:HG2	38:8B:177:HIS:HA	1.98	0.46
1:3K:210:ILE:HA	1:3K:297:LYS:HZ3	1.79	0.46
1:3Q:100:ASN:HB3	1:3Q:103:LYS:HB2	1.96	0.46
2:3T:114:ILE:HG21	2:3T:149:LEU:HD22	1.98	0.46
2:3T:116:ASP:O	2:3T:119:LEU:HG	2.15	0.46
3:3V:229:ASP:HB3	3:3V:230:LEU:HD23	1.97	0.46
4:3W:172:TYR:HA	4:3W:176:GLU:OE2	2.16	0.46
3:3X:158:LEU:HD12	3:3X:194:VAL:HG11	1.98	0.46
4:4A:172:TYR:HA	4:4A:176:GLU:OE2	2.16	0.46
3:4B:229:ASP:HB3	3:4B:230:LEU:HD23	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4C:172:TYR:HA	4:4C:176:GLU:OE2	2.16	0.46
3:4D:7:GLY:C	3:4D:140:LYS:HE2	2.37	0.46
4:4E:172:TYR:HA	4:4E:176:GLU:OE2	2.16	0.46
3:4H:7:GLY:C	3:4H:140:LYS:HE2	2.37	0.46
3:4H:229:ASP:HB3	3:4H:230:LEU:HD23	1.97	0.46
5:4M:292:ALA:O	5:4M:296:GLU:HG3	2.16	0.46
6:4O:208:GLU:O	6:4O:211:GLU:HG3	2.15	0.46
8:4W:356:ALA:O	8:4W:360:GLU:HG2	2.16	0.46
10:5A:451:HIS:O	10:5A:454:GLU:HG2	2.16	0.46
10:5B:247:GLU:O	10:5B:251:GLU:HG3	2.16	0.46
10:5B:257:GLN:HG3	10:5B:261:LYS:HZ2	1.81	0.46
12:5F:336:GLY:HA3	12:5F:380:TRP:CZ2	2.50	0.46
14:5L:478:LYS:HD3	14:5L:483:GLU:HB2	1.98	0.46
14:5N:78:TYR:HB3	14:5N:81:PHE:CD2	2.51	0.46
14:5N:455:GLY:N	14:5N:458:SER:O	2.47	0.46
14:5N:577:VAL:HG23	14:5N:594:HIS:CE1	2.49	0.46
15:5P:99:LYS:HD2	15:5P:203:ASN:O	2.16	0.46
15:5P:332:PRO:HG3	15:5P:350:ASP:CA	2.45	0.46
18:6D:180:ARG:O	18:6D:184:THR:HG23	2.15	0.46
22:6K:201:ARG:HB3	22:6K:237:TYR:HB3	1.97	0.46
23:6S:54:ASN:N	23:6S:54:ASN:OD1	2.47	0.46
24:6U:345:ASP:N	24:6U:345:ASP:OD2	2.47	0.46
38:7Z:21:LYS:HG2	38:7Z:22:THR:N	2.29	0.46
2:2:415:GLU:OE2	4:3W:86:TYR:OH	2.16	0.46
1:G2:15:GLN:HB3	1:G2:226:ASN:HD21	1.81	0.46
2:G5:9:ILE:CG1	2:G5:139:ASN:HB3	2.45	0.46
2:G5:298:PRO:HA	2:G5:301:MET:HG2	1.97	0.46
2:G5:333:ALA:O	2:G5:337:THR:HG23	2.15	0.46
1:G6:169:VAL:HG12	1:G6:202:LEU:HB2	1.97	0.46
1:G8:58:ARG:HD3	1:I4:280:GLN:HE22	1.81	0.46
1:G8:167:PHE:CE2	1:G8:233:MET:HG2	2.51	0.46
2:G9:193:SER:HB3	2:G9:197:HIS:CE1	2.50	0.46
2:H1:2:ARG:HA	2:H1:133:GLN:HE21	1.81	0.46
2:H9:143:GLY:O	2:H9:147:SER:OG	2.23	0.46
1:I0:39:ASP:OD1	1:I0:39:ASP:N	2.46	0.46
2:I3:331:SER:O	2:I3:334:THR:N	2.49	0.46
1:I4:112:LEU:O	1:I4:115:SER:OG	2.31	0.46
2:I5:191:THR:HA	2:I5:194:LEU:HB3	1.97	0.46
2:I5:402:ARG:NH2	2:I5:415:GLU:HG2	2.31	0.46
2:I5:430:LYS:HD3	2:I5:430:LYS:O	2.15	0.46
2:I9:230:LEU:HD12	2:I9:231:ILE:HD13	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J0:70:PRO:N	1:J0:92:PHE:HZ	2.14	0.46
1:J0:135:VAL:HG21	1:J0:152:ILE:HD11	1.98	0.46
2:J3:90:GLU:HB3	2:J3:121:ARG:NH1	2.22	0.46
2:J5:328:VAL:O	2:J5:332:VAL:HG23	2.16	0.46
2:J7:155:GLU:HG3	2:J7:197:HIS:NE2	2.31	0.46
1:K0:334:GLN:HE22	1:K0:348:ASN:H	1.64	0.46
2:K3:420:GLU:HA	2:K3:423:GLU:HG3	1.98	0.46
2:L5:35:GLN:N	2:L5:35:GLN:OE1	2.49	0.46
2:M3:305:CYS:HB3	2:M3:387:ILE:HD11	1.98	0.46
2:M5:69:ASP:OD2	2:M5:71:GLU:N	2.49	0.46
1:M6:125:GLU:HB3	37:7Y:93:LYS:HA	1.98	0.46
2:M7:236:SER:O	2:M7:243:ARG:NH2	2.49	0.46
2:M9:72:PRO:HG3	1:N0:1:MET:HG2	1.98	0.46
1:N0:7:ILE:HB	1:N0:135:VAL:HG22	1.98	0.46
1:N2:178:THR:OG1	1:N2:181:GLU:HG3	2.16	0.46
2:N3:229:ARG:HE	2:N3:363:VAL:CG2	2.29	0.46
1:N6:344:TRP:CE3	1:N6:345:ILE:HG13	2.51	0.46
2:N9:85:GLN:O	2:P7:283:HIS:CE1	2.64	0.46
1:O0:174:LYS:NZ	27:7G:7:ASN:OD1	2.43	0.46
2:O1:62:VAL:HA	2:O1:63:PRO:HD3	1.80	0.46
1:O4:185:ALA:O	1:O4:189:VAL:HG12	2.16	0.46
2:O5:183:GLU:HG3	2:O5:184:PRO:HD3	1.98	0.46
2:O7:69:ASP:OD1	2:O7:70:LEU:N	2.47	0.46
1:O8:86:ARG:HG2	1:O8:88:ASP:H	1.80	0.46
2:O9:9:ILE:HD13	2:O9:150:GLY:HA2	1.97	0.46
2:O9:253:THR:HA	2:O9:256:GLN:HG2	1.98	0.46
2:P3:175:PRO:HB3	2:P3:390:ARG:NE	2.31	0.46
2:P7:73:THR:OG1	2:P7:74:VAL:N	2.49	0.46
1:P8:301:CYS:SG	1:P8:302:ALA:N	2.88	0.46
2:P9:345:ASP:OD1	2:P9:346:TRP:N	2.49	0.46
1:Q2:214:THR:OG1	1:Q2:215:LEU:N	2.49	0.46
2:Q3:392:ASP:OD2	2:Q3:422:ARG:NH1	2.48	0.46
1:Q4:128:ASP:OD1	1:Q4:129:CYS:N	2.43	0.46
2:Q5:177:VAL:HG13	1:Q6:327:ASP:HB3	1.98	0.46
1:Q8:114:ASP:OD2	1:Q8:115:SER:N	2.47	0.46
2:Q9:217:LEU:HD21	2:Q9:368:LEU:HD23	1.98	0.46
1:R0:314:SER:HA	1:R0:350:LYS:O	2.16	0.46
2:S1:259:LEU:HD21	2:S1:316:CYS:HB2	1.98	0.46
2:S1:367:ASP:HA	7:4R:342:ARG:HH12	1.81	0.46
1:S4:391:ARG:HG3	2:S5:346:TRP:CE2	2.51	0.46
2:S7:227:LEU:O	2:S7:231:ILE:HG12	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S8:287:PRO:HA	1:S8:290:THR:HG22	1.98	0.46
1:S8:334:GLN:NE2	1:S8:348:ASN:H	2.13	0.46
1:T2:391:ARG:O	2:T3:262:TYR:OH	2.34	0.46
1:T6:31:ASP:OD1	1:T6:33:THR:HG22	2.16	0.46
1:T6:173:PRO:HD3	1:T6:380:ARG:NH1	2.31	0.46
1:T6:273:LEU:O	1:T6:292:GLN:NE2	2.47	0.46
2:T7:203:MET:HE1	2:T7:267:PHE:HD1	1.81	0.46
1:U2:232:VAL:O	1:U2:236:ILE:HG12	2.16	0.46
1:U4:316:LEU:HD23	1:U4:352:SER:HB3	1.98	0.46
1:U6:325:GLU:O	1:U6:329:GLN:HG2	2.16	0.46
2:U7:66:ILE:O	2:U7:66:ILE:HG13	2.16	0.46
2:U9:9:ILE:HD12	2:U9:150:GLY:HA3	1.98	0.46
1:V0:208:TYR:CE1	1:V0:225:LEU:HD11	2.51	0.46
1:V0:276:ARG:NH1	1:V0:279:GLN:HB3	2.31	0.46
2:V1:22:GLU:HB2	2:V1:83:TYR:HE2	1.81	0.46
1:V2:371:SER:OG	1:V2:372:THR:N	2.49	0.46
2:V3:287:SER:N	2:V3:290:GLU:OE2	2.48	0.46
1:V4:172:SER:OG	1:V4:380:ARG:NH1	2.49	0.46
1:V6:20:PHE:O	1:V6:24:VAL:HG23	2.16	0.46
1:W2:5:VAL:HG23	1:W2:62:ARG:HG2	1.97	0.46
1:X2:114:ASP:N	1:X2:114:ASP:OD1	2.49	0.46
2:X5:90:GLU:HB2	2:Z1:283:HIS:CE1	2.51	0.46
2:X7:23:LEU:O	2:X7:27:GLU:HG2	2.15	0.46
1:Y0:51:PHE:HB3	1:Y0:59:TYR:HB3	1.98	0.46
1:Y2:2:ARG:HE	1:Y2:240:LEU:HD22	1.80	0.46
2:Y3:88:HIS:HB3	2:Z9:283:HIS:CG	2.51	0.46
2:Y3:313:MET:SD	2:Y3:380:ASN:ND2	2.89	0.46
1:Y6:418:LEU:O	1:Y6:421:GLU:HG3	2.16	0.46
1:Z2:198:GLU:HA	1:Z2:264:HIS:HB2	1.98	0.46
2:Z3:209:ILE:HG21	2:Z3:227:LEU:HG	1.98	0.46
2:Z5:19:ALA:O	2:Z5:22:GLU:HG3	2.16	0.46
2:Z5:56:THR:HA	2:0L:285:GLN:CG	2.46	0.46
2:Z7:236:SER:HA	2:Z7:239:THR:HG22	1.98	0.46
2:Z7:394:LYS:HD2	1:Z8:346:PRO:HG3	1.98	0.46
1:Z8:358:PRO:HG2	1:Z8:361:LEU:HB2	1.96	0.46
1:0C:240:LEU:HD11	1:0C:250:LEU:CD1	2.46	0.46
2:0F:28:HIS:CE1	2:0F:49:PHE:HA	2.50	0.46
2:0F:90:GLU:HB2	2:0V:283:HIS:CE1	2.50	0.46
2:0F:116:ASP:N	2:0F:116:ASP:OD1	2.47	0.46
1:0O:418:LEU:O	1:0O:421:GLU:HG2	2.16	0.46
2:0R:286:LEU:HD11	2:0R:372:GLN:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0R:403:ALA:HB2	1:0S:344:TRP:HZ3	1.81	0.46
2:0V:108:TYR:HA	2:0V:112:LYS:HE2	1.99	0.46
2:0Z:267:PHE:HB2	2:0Z:384:ILE:HD12	1.98	0.46
1:1C:68:LEU:HG	1:1C:147:MET:HE1	1.98	0.46
1:1E:166:THR:OG1	1:1E:199:CYS:SG	2.73	0.46
2:1F:72:PRO:HD2	1:1G:2:ARG:NH1	2.30	0.46
2:1F:147:SER:OG	2:1F:148:GLY:N	2.49	0.46
1:1G:27:GLU:OE1	1:1G:318:ARG:NH2	2.48	0.46
1:1G:242:PHE:CD1	1:1G:356:ILE:HG13	2.50	0.46
1:1Q:8:GLN:CD	1:1Q:17:GLY:HA3	2.37	0.46
1:1W:215:LEU:HB3	1:1W:217:LEU:HG	1.98	0.46
2:1Z:90:GLU:HB3	2:1Z:121:ARG:HH22	1.81	0.46
2:2B:120:ASP:OD1	38:8A:73:TRP:CE2	2.68	0.46
2:2B:204:LEU:HD22	2:2B:231:ILE:HD12	1.98	0.46
2:2B:428:LEU:HG	2:2B:432:PHE:HE2	1.81	0.46
2:2D:406:HIS:HA	2:2D:409:VAL:HG12	1.98	0.46
2:2F:69:ASP:OD1	2:2F:70:LEU:N	2.45	0.46
2:2F:90:GLU:H	2:2V:283:HIS:CE1	2.34	0.46
2:2L:238:LEU:HD12	2:2L:318:MET:HG3	1.98	0.46
2:2L:274:PRO:HB2	2:2L:276:ILE:CG1	2.46	0.46
1:2Q:173:PRO:HD2	1:2Q:380:ARG:CZ	2.46	0.46
2:2T:201:ALA:O	2:2T:268:MET:HE2	2.16	0.46
2:2T:312:TYR:HB2	2:2T:343:PHE:HD1	1.80	0.46
2:2X:214:ARG:NH2	38:8B:18:VAL:HG13	2.31	0.46
1:2Y:396:HIS:HE1	1:2Y:397:TRP:CZ2	2.33	0.46
2:3B:241:SER:OG	2:3B:250:VAL:O	2.28	0.46
2:3B:414:GLU:HG2	2:3B:417:GLU:OE1	2.15	0.46
2:3D:244:PHE:HB2	2:3D:356:ASN:HD21	1.81	0.46
1:3G:138:SER:OG	1:3G:139:LEU:N	2.48	0.46
1:3K:192:LEU:HD23	1:3K:192:LEU:HA	1.81	0.46
2:3L:178:SER:HB2	2:3L:183:GLU:OE2	2.15	0.46
2:3P:223:THR:HG22	1:3Q:322:SER:HA	1.98	0.46
2:3P:251:ASP:OD1	2:3P:251:ASP:N	2.43	0.46
1:3S:121:ARG:O	1:3S:125:GLU:OE1	2.34	0.46
2:3T:393:HIS:O	2:3T:397:LEU:HG	2.16	0.46
3:3X:229:ASP:HB3	3:3X:230:LEU:HD23	1.97	0.46
3:3Z:7:GLY:C	3:3Z:140:LYS:HE2	2.37	0.46
5:4M:13:GLN:OE1	5:4M:16:ARG:NH2	2.49	0.46
5:4M:321:LEU:HA	5:4M:324:MET:HG2	1.97	0.46
6:4O:80:MET:O	6:4O:84:LEU:HG	2.16	0.46
7:4U:199:VAL:HG12	31:7N:60:ILE:CD1	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:5A:458:ARG:NH1	10:5A:458:ARG:HB3	2.30	0.46
10:5B:87:ALA:O	10:5B:90:LYS:HG3	2.15	0.46
10:5B:111:GLU:O	10:5B:115:GLN:HG2	2.16	0.46
11:5E:115:LEU:HD13	11:5E:120:PHE:HD2	1.82	0.46
14:5L:188:ALA:HA	14:5L:226:VAL:HG11	1.94	0.46
14:5M:577:VAL:HG23	14:5M:594:HIS:CE1	2.50	0.46
14:5N:478:LYS:HD3	14:5N:483:GLU:HB2	1.98	0.46
15:5O:8:CYS:HA	15:5O:26:LEU:O	2.16	0.46
15:5O:55:LEU:N	15:5O:55:LEU:HD23	2.31	0.46
15:5O:66:VAL:O	15:5O:73:LEU:HD23	2.16	0.46
15:5O:291:ALA:CB	15:5O:297:MET:HE1	2.23	0.46
15:5P:303:SER:O	15:5P:303:SER:OG	2.27	0.46
22:6I:342:ASP:O	22:6I:346:PHE:HB2	2.16	0.46
22:6L:54:ARG:HA	24:6W:285:MET:SD	2.56	0.46
23:6Q:54:ASN:OD1	23:6Q:54:ASN:N	2.47	0.46
24:6T:386:THR:OG1	24:6T:388:GLU:HG3	2.16	0.46
24:6U:592:ASP:N	24:6U:592:ASP:OD1	2.48	0.46
24:6V:112:GLU:HB2	24:6V:209:PRO:HG2	1.98	0.46
24:6V:615:ARG:HG2	24:6V:616:LEU:HD23	1.98	0.46
24:6Z:435:LEU:O	24:6Z:439:MET:HG2	2.16	0.46
24:6Z:469:PHE:CE2	24:6Z:482:ILE:HG23	2.51	0.46
24:6Z:484:GLU:HG2	24:6Z:495:GLY:O	2.16	0.46
25:7C:6:ARG:O	25:7C:10:GLU:HG2	2.15	0.46
30:7L:357:GLU:HG2	30:7L:358:PRO:HD2	1.98	0.46
34:7R:90:LEU:HA	34:7R:93:GLU:HG3	1.97	0.46
34:7R:103:LEU:O	34:7R:107:LYS:HG2	2.16	0.46
34:7R:206:GLY:HA2	34:7R:209:THR:HG22	1.98	0.46
37:7Y:59:PRO:O	37:7Y:62:GLN:HB2	2.15	0.46
37:7Y:87:VAL:O	37:7Y:87:VAL:HG13	2.16	0.46
38:8D:220:VAL:HG13	38:8D:221:ARG:N	2.31	0.46
1:A7:204:ASN:OD1	39:A7:501:GDP:O2'	2.34	0.45
1:C6:11:GLN:HB3	39:C6:501:GDP:O1A	2.15	0.45
2:F9:39:ASP:O	24:6U:537:GLU:HB2	2.14	0.45
1:G6:244:GLY:HA2	1:G6:355:ASP:OD1	2.17	0.45
2:G7:153:LEU:HD23	2:G7:153:LEU:HA	1.80	0.45
2:H1:216:SER:OG	2:H1:217:LEU:N	2.49	0.45
2:H3:56:THR:HG21	2:I9:283:HIS:O	2.17	0.45
1:H4:315:ALA:HB1	1:H4:317:PHE:CE1	2.51	0.45
2:H5:200:VAL:HG13	2:H5:268:MET:HE3	1.97	0.45
1:H6:260:PHE:HB2	1:H6:263:LEU:HD23	1.97	0.45
1:I2:91:VAL:CG1	1:I2:116:VAL:HG12	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I3:248:LEU:HD22	2:I3:354:GLY:HA2	1.98	0.45
2:I3:317:LEU:HB3	2:I3:319:TYR:HE1	1.82	0.45
2:I3:323:VAL:HG22	2:I3:373:ARG:HD3	1.98	0.45
1:I4:149:THR:O	1:I4:152:ILE:HG22	2.15	0.45
2:I7:222:PRO:CD	1:I8:324:LYS:HE3	2.46	0.45
2:I7:245:ASP:N	2:I7:245:ASP:OD1	2.49	0.45
2:I7:311:LYS:HE3	2:I7:344:VAL:HA	1.98	0.45
2:I7:415:GLU:N	2:I7:415:GLU:OE1	2.49	0.45
1:I8:421:GLU:HA	1:I8:424:GLN:HB3	1.98	0.45
1:J4:33:THR:HG21	5:4M:120:ARG:HD3	1.97	0.45
2:J5:320:ARG:HE	2:J5:320:ARG:HB3	1.53	0.45
2:J7:14:ILE:HD11	2:J7:74:VAL:HG13	1.97	0.45
1:K0:289:LEU:HD23	1:K0:365:ALA:HB2	1.97	0.45
2:K1:384:ILE:HD12	2:K1:387:ILE:HD12	1.98	0.45
1:K4:274:THR:OG1	1:K4:279:GLN:OE1	2.32	0.45
2:K5:21:TRP:CZ2	2:K5:65:CYS:HB2	2.51	0.45
1:L4:74:ASP:O	1:L4:78:SER:OG	2.26	0.45
2:L5:328:VAL:HG11	2:L5:355:ILE:HD11	1.97	0.45
2:L9:102:ASN:HB3	2:L9:105:ARG:HB3	1.98	0.45
1:M0:140:GLY:O	1:M0:184:ASN:ND2	2.37	0.45
2:M5:33:ASP:N	2:M5:33:ASP:OD1	2.48	0.45
2:M9:102:ASN:HB3	2:M9:105:ARG:HB3	1.98	0.45
2:M9:276:ILE:HG22	2:M9:281:ALA:HB2	1.98	0.45
2:N1:100:ALA:HB1	1:N2:252:LYS:HB3	1.98	0.45
1:N2:172:SER:OG	1:N2:380:ARG:NH2	2.50	0.45
1:O0:22:GLU:HG2	1:O0:81:TYR:CD2	2.51	0.45
1:O0:412:GLU:O	1:O0:416:ASN:ND2	2.49	0.45
1:O4:285:THR:HG23	1:O4:287:PRO:HD2	1.97	0.45
1:O8:68:LEU:HD13	1:O8:108:GLU:HG2	1.98	0.45
2:O9:52:PHE:CE2	2:O9:243:ARG:HD3	2.50	0.45
2:P3:53:PHE:O	2:P3:64:ARG:NH2	2.50	0.45
1:P4:259:PRO:HG3	1:P4:311:LEU:HD21	1.99	0.45
2:P5:15:GLN:HB3	2:P5:228:ASN:ND2	2.30	0.45
1:P6:405:GLU:HA	1:P6:408:PHE:HD2	1.80	0.45
2:P7:176:GLN:HG2	2:P7:177:VAL:N	2.31	0.45
1:P8:8:GLN:OE1	1:P8:17:GLY:HA3	2.16	0.45
1:Q0:317:PHE:HB3	1:Q0:321:MET:SD	2.56	0.45
2:Q1:210:TYR:HH	2:Q1:224:TYR:HE1	1.64	0.45
1:Q8:190:HIS:HD2	1:Q8:414:ASN:HB2	1.81	0.45
2:Q9:110:ILE:HA	2:Q9:113:GLU:OE1	2.16	0.45
1:R0:397:TRP:CZ2	2:R1:256:GLN:HB3	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R1:416:GLY:HA3	17:5S:76:PRO:HG3	1.97	0.45
2:R5:69:ASP:OD1	2:R5:70:LEU:N	2.45	0.45
2:R7:7:ILE:HD12	2:R7:153:LEU:HD21	1.97	0.45
2:R7:73:THR:OG1	2:R7:74:VAL:N	2.49	0.45
2:R7:176:GLN:HG2	2:R7:177:VAL:N	2.31	0.45
1:S0:58:ARG:NH2	1:T6:280:GLN:OE1	2.49	0.45
2:S1:298:PRO:HB3	2:S1:307:PRO:HD2	1.97	0.45
1:S2:328:GLU:O	1:S2:332:ASN:ND2	2.49	0.45
1:S4:287:PRO:HA	1:S4:290:THR:HG22	1.98	0.45
1:S4:330:MET:HA	1:S4:333:VAL:HG12	1.98	0.45
1:S8:100:ASN:HB3	1:S8:103:LYS:HB2	1.97	0.45
2:S9:137:VAL:HG22	2:S9:168:GLY:HA2	1.98	0.45
1:T2:190:HIS:HD2	1:T2:414:ASN:HB2	1.80	0.45
2:T3:113:GLU:N	2:T3:113:GLU:OE1	2.49	0.45
2:T5:14:ILE:O	2:T5:18:ASN:HB2	2.16	0.45
1:T6:325:GLU:HA	1:T6:328:GLU:HG2	1.97	0.45
1:U2:229:ILE:HG22	1:U2:233:MET:SD	2.56	0.45
1:U2:279:GLN:NE2	1:U2:282:ARG:HH21	2.13	0.45
2:U7:27:GLU:OE1	2:U7:243:ARG:NH1	2.49	0.45
2:U7:223:THR:OG1	2:U7:224:TYR:N	2.50	0.45
1:U8:173:PRO:HD2	1:U8:174:LYS:HZ3	1.80	0.45
2:U9:119:LEU:HA	2:U9:122:ILE:HG22	1.98	0.45
1:V2:45:GLU:HG2	1:V2:46:ARG:HG2	1.97	0.45
1:V2:361:LEU:HG	1:V2:363:MET:H	1.80	0.45
1:V6:5:VAL:HG22	1:V6:133:PHE:HD1	1.80	0.45
1:V6:77:ARG:O	1:V6:83:GLN:NE2	2.45	0.45
1:V6:290:THR:HG21	1:V6:329:GLN:NE2	2.31	0.45
2:V9:275:ILE:HG13	2:V9:275:ILE:O	2.16	0.45
2:W3:157:LEU:HD23	2:W3:157:LEU:HA	1.80	0.45
1:W4:31:ASP:OD1	1:W4:34:GLY:N	2.48	0.45
2:W9:11:GLN:O	2:W9:14:ILE:HG12	2.16	0.45
1:X0:22:GLU:HG2	1:X0:81:TYR:HD2	1.82	0.45
1:X0:44:LEU:HD13	1:X0:47:ILE:HD11	1.97	0.45
1:X0:167:PHE:CZ	1:X0:233:MET:HG2	2.51	0.45
1:X2:266:PHE:HB3	1:X2:368:ILE:HD11	1.98	0.45
2:X3:167:LEU:HG	2:X3:252:ILE:HD11	1.97	0.45
1:X4:3:GLU:HG3	1:X4:127:CYS:SG	2.56	0.45
1:X4:179:VAL:HG13	2:X5:349:THR:O	2.16	0.45
2:X5:72:PRO:HG3	1:X6:1:MET:HG2	1.97	0.45
2:X5:183:GLU:CD	2:X5:184:PRO:HD3	2.36	0.45
2:X7:90:GLU:CD	2:Z3:280:LYS:HE2	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X9:284:GLU:HG2	2:X9:285:GLN:N	2.30	0.45
2:Y1:11:GLN:HB3	41:Y1:501:GTP:O2A	2.15	0.45
2:Y1:188:VAL:HA	2:Y1:191:THR:HG22	1.98	0.45
1:Y2:21:TRP:CZ3	1:Y2:61:PRO:HB3	2.51	0.45
1:Y2:295:ASP:OD1	1:Y2:297:LYS:N	2.45	0.45
1:Y4:6:HIS:HA	1:Y4:134:GLN:O	2.16	0.45
1:Y6:58:ARG:HH11	1:Y6:84:ILE:HG22	1.80	0.45
1:Y6:322:SER:HB3	1:Y6:325:GLU:HG3	1.97	0.45
1:Y8:285:THR:HG23	1:Y8:287:PRO:HD2	1.98	0.45
1:Z2:141:GLY:HA3	39:Z2:503:GDP:PB	2.56	0.45
2:Z7:107:HIS:HD2	2:Z7:151:SER:OG	1.98	0.45
1:Z8:329:GLN:HA	1:Z8:332:ASN:HD21	1.81	0.45
2:Z9:28:HIS:CE1	2:Z9:49:PHE:HA	2.50	0.45
2:0B:187:SER:O	2:0B:190:SER:OG	2.20	0.45
1:0E:153:SER:O	1:0E:157:GLU:HG2	2.16	0.45
2:0H:407:TRP:CG	1:0I:255:VAL:HG23	2.51	0.45
1:0I:274:THR:HG21	1:0I:282:ARG:HD2	1.97	0.45
2:0N:66:ILE:O	2:0N:66:ILE:HG13	2.15	0.45
1:0O:67:ASP:OD1	1:0O:68:LEU:N	2.45	0.45
1:0O:174:LYS:HE2	1:0O:174:LYS:HB3	1.77	0.45
2:0P:246:GLY:HA3	2:0P:356:ASN:HA	1.98	0.45
1:0Q:114:ASP:N	1:0Q:114:ASP:OD1	2.49	0.45
2:0R:319:TYR:HB3	2:0R:323:VAL:HG21	1.98	0.45
1:0S:232:VAL:HG11	1:0S:268:VAL:HG11	1.98	0.45
1:0U:124:ALA:HB1	1:0U:130:LEU:HD21	1.97	0.45
1:1A:167:PHE:CE2	1:1A:233:MET:HG2	2.52	0.45
1:1A:344:TRP:O	1:1A:345:ILE:HD13	2.16	0.45
1:1C:414:ASN:HA	1:1C:417:ASP:OD2	2.17	0.45
2:1F:178:SER:HB3	2:1F:183:GLU:OE2	2.16	0.45
1:1G:4:ILE:HA	1:1G:132:GLY:O	2.16	0.45
2:1H:167:LEU:HD21	2:1H:252:ILE:HG23	1.96	0.45
2:1N:50:ASN:O	2:1N:64:ARG:NH2	2.49	0.45
1:1O:219:THR:O	1:1O:219:THR:OG1	2.33	0.45
2:1P:3:GLU:HB2	2:1P:129:CYS:SG	2.55	0.45
2:1P:179:THR:O	1:1Q:350:LYS:HA	2.16	0.45
1:1Q:83:GLN:OE1	1:1Q:83:GLN:N	2.39	0.45
1:1U:128:ASP:N	1:1U:128:ASP:OD1	2.42	0.45
2:1X:317:LEU:HB3	2:1X:319:TYR:CE1	2.44	0.45
2:1Z:12:ALA:O	2:1Z:16:VAL:HG23	2.16	0.45
1:2A:309:ARG:H	1:2A:372:THR:HG22	1.81	0.45
1:2A:404:ASP:HB3	1:2A:406:MET:SD	2.56	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2B:246:GLY:HA3	2:2B:356:ASN:HA	1.98	0.45
2:2B:289:ALA:O	2:2B:293:ASN:ND2	2.49	0.45
2:2B:315:CYS:SG	2:2B:316:CYS:N	2.88	0.45
1:2I:2:ARG:HB3	1:2I:131:GLN:HB2	1.98	0.45
2:2J:287:SER:N	2:2J:290:GLU:OE2	2.49	0.45
1:2K:139:LEU:HD12	1:2K:170:VAL:HG12	1.97	0.45
1:2M:183:TYR:HA	1:2M:385:PHE:CE1	2.51	0.45
2:2R:14:ILE:HD11	2:2R:74:VAL:HG13	1.98	0.45
1:2S:154:LYS:HD3	1:2S:154:LYS:HA	1.80	0.45
2:2T:2:ARG:HA	2:2T:133:GLN:HE21	1.80	0.45
1:2Y:167:PHE:CE2	1:2Y:233:MET:HG2	2.50	0.45
1:3A:396:HIS:HE1	1:3A:397:TRP:CZ2	2.34	0.45
1:3C:183:TYR:HB3	1:3C:398:TYR:HE2	1.81	0.45
2:3D:47:ASP:HA	2:3D:50:ASN:ND2	2.31	0.45
1:3G:34:GLY:HA3	1:3G:58:ARG:HD2	1.97	0.45
1:3K:95:THR:HG23	1:3K:96:GLY:N	2.31	0.45
1:3M:22:GLU:HG3	1:3M:81:TYR:CD1	2.51	0.45
2:3P:111:GLY:O	2:3P:115:VAL:HG22	2.15	0.45
2:3R:76:ASP:O	2:3R:80:THR:HG22	2.16	0.45
1:3S:181:GLU:HB2	1:3S:182:PRO:HD3	1.98	0.45
3:3V:7:GLY:C	3:3V:140:LYS:HE2	2.37	0.45
3:3X:7:GLY:C	3:3X:140:LYS:HE2	2.37	0.45
4:4E:117:PHE:HB2	4:4E:118:ILE:HD12	1.97	0.45
3:4F:7:GLY:C	3:4F:140:LYS:HE2	2.37	0.45
6:4O:449:ASP:OD2	6:4O:452:ARG:NH1	2.49	0.45
7:4R:113:PRO:HG2	21:6G:40:PHE:CE1	2.51	0.45
7:4U:123:LEU:HD11	7:4U:129:GLN:HB2	1.98	0.45
9:4Z:360:THR:O	9:4Z:364:LYS:HG3	2.17	0.45
10:5C:227:GLU:HA	10:5C:230:ARG:HE	1.80	0.45
11:5E:165:LEU:HD12	11:5E:192:ALA:HB2	1.98	0.45
12:5F:312:ASP:OD1	12:5F:312:ASP:N	2.48	0.45
14:5L:78:TYR:HB3	14:5L:81:PHE:CD2	2.51	0.45
14:5M:78:TYR:HB3	14:5M:81:PHE:CD2	2.51	0.45
15:5P:60:LEU:HG	15:5P:61:PHE:H	1.81	0.45
17:5U:108:ASN:O	17:5U:112:VAL:HG23	2.16	0.45
21:6H:106:ARG:HB2	24:6X:81:THR:H	1.80	0.45
22:6N:129:GLN:OE1	22:6N:129:GLN:N	2.48	0.45
22:6P:55:THR:OG1	22:6P:56:GLN:HG3	2.15	0.45
22:6P:281:LYS:N	22:6P:281:LYS:HD3	2.31	0.45
24:6U:113:ASN:OD1	24:6U:114:HIS:ND1	2.40	0.45
24:6X:279:TRP:CZ2	24:6X:364:ARG:HG3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:6X:386:THR:OG1	24:6X:388:GLU:HG3	2.16	0.45
24:6Y:558:LEU:HD22	24:6Y:612:LEU:HD21	1.98	0.45
24:6Z:290:ARG:HG3	24:6Z:291:PRO:HD2	1.97	0.45
29:7J:438:VAL:HG22	29:7J:443:LEU:HD21	1.98	0.45
38:8B:86:TYR:N	38:8B:86:TYR:CD2	2.84	0.45
2:B2:59:GLY:CA	24:6V:263:ARG:HH12	2.28	0.45
2:C5:47:ASP:OD2	24:6T:319:PRO:HG3	2.16	0.45
2:C9:143:GLY:HA3	41:C9:501:GTP:O2B	2.16	0.45
2:D5:285:GLN:HE21	24:6Y:256:LEU:HD12	1.80	0.45
2:G1:175:PRO:HB3	2:G1:390:ARG:NE	2.30	0.45
1:G2:232:VAL:HG11	1:G2:268:VAL:HG11	1.97	0.45
2:G7:205:ASP:OD1	2:G7:206:ASN:N	2.49	0.45
2:G9:175:PRO:HG2	2:G9:176:GLN:OE1	2.16	0.45
2:G9:275:ILE:HG23	2:G9:275:ILE:O	2.17	0.45
1:H6:113:ILE:HG21	1:H6:150:LEU:HD22	1.97	0.45
1:I0:325:GLU:O	1:I0:329:GLN:HB2	2.16	0.45
2:I7:151:SER:HB2	2:I7:193:SER:OG	2.17	0.45
2:J1:183:GLU:HG3	2:J1:184:PRO:HD3	1.98	0.45
1:J2:421:GLU:HA	1:J2:424:GLN:HB3	1.98	0.45
2:J3:2:ARG:CZ	16:5Q:175:LEU:HD23	2.46	0.45
1:J6:221:THR:HG23	1:J6:223:GLY:H	1.81	0.45
1:J8:173:PRO:O	1:J8:176:SER:OG	2.33	0.45
2:J9:90:GLU:HG3	2:J9:121:ARG:CZ	2.47	0.45
2:J9:345:ASP:OD1	2:J9:346:TRP:N	2.49	0.45
1:K0:416:ASN:O	1:K0:420:SER:OG	2.31	0.45
2:K3:392:ASP:OD2	2:K3:422:ARG:NH1	2.49	0.45
1:K4:386:THR:O	1:K4:390:ARG:HG3	2.16	0.45
1:K8:294:TRP:CE2	1:K8:333:VAL:HG11	2.51	0.45
2:K9:11:GLN:NE2	1:L0:247:ASN:OD1	2.48	0.45
1:L0:145:SER:OG	1:L0:146:GLY:N	2.49	0.45
2:L3:175:PRO:HG2	2:L3:176:GLN:OE1	2.16	0.45
2:L7:315:CYS:SG	2:L7:379:SER:OG	2.60	0.45
1:M0:88:ASP:HB3	2:N7:283:HIS:CE1	2.51	0.45
2:M5:9:ILE:HG22	2:M5:146:GLY:HA2	1.99	0.45
2:M5:66:ILE:HD12	2:M5:68:LEU:HD23	1.97	0.45
1:M6:245:GLN:HG2	37:7Y:146:GLU:HG2	1.98	0.45
2:M7:79:ARG:HB2	19:6E:24:TRP:HH2	1.80	0.45
2:M7:205:ASP:OD2	2:M7:206:ASN:N	2.45	0.45
2:M9:35:GLN:NE2	2:M9:40:LYS:HZ2	2.11	0.45
2:M9:35:GLN:NE2	2:M9:40:LYS:NZ	2.62	0.45
2:M9:129:CYS:SG	2:M9:130:THR:N	2.89	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N0:135:VAL:HG12	1:N0:137:HIS:HD2	1.81	0.45
2:N1:177:VAL:HG13	1:N2:327:ASP:HB3	1.97	0.45
1:N2:126:SER:O	32:7P:22:ASN:ND2	2.48	0.45
1:N6:27:GLU:OE1	1:N6:318:ARG:NH2	2.46	0.45
1:N8:417:ASP:OD2	1:N8:418:LEU:N	2.49	0.45
1:O0:277:GLY:HA2	27:7G:31:PHE:CD2	2.49	0.45
1:O2:317:PHE:HB3	1:O2:321:MET:CE	2.46	0.45
2:O3:325:PRO:HA	2:O3:328:VAL:HG12	1.97	0.45
2:O5:88:HIS:CE1	2:O5:89:PRO:HD2	2.51	0.45
2:O5:285:GLN:NE2	19:6E:10:SER:HB3	2.31	0.45
2:O7:32:PRO:HB3	2:O7:83:TYR:HE1	1.81	0.45
2:P3:170:THR:HG21	2:P3:194:LEU:HD11	1.98	0.45
1:P4:5:VAL:HB	1:P4:133:PHE:HD1	1.80	0.45
1:P4:128:ASP:OD1	1:P4:128:ASP:N	2.47	0.45
1:Q0:131:GLN:HE21	1:Q0:250:LEU:HB2	1.81	0.45
2:Q1:430:LYS:HE3	2:Q1:434:GLU:OE2	2.15	0.45
2:Q3:66:ILE:HG13	2:Q3:66:ILE:O	2.16	0.45
1:Q4:153:SER:HA	1:Q4:195:ASN:HD22	1.81	0.45
2:Q5:66:ILE:O	2:Q5:66:ILE:HG13	2.17	0.45
2:Q9:155:GLU:HG2	2:Q9:197:HIS:ND1	2.31	0.45
1:R2:176:SER:O	1:R2:176:SER:OG	2.32	0.45
1:R2:418:LEU:HG	1:R2:422:TYR:HE2	1.80	0.45
1:R6:371:SER:OG	1:R6:372:THR:N	2.48	0.45
1:R8:154:LYS:HA	1:R8:157:GLU:OE1	2.17	0.45
1:R8:292:GLN:HG2	1:R8:298:ASN:ND2	2.31	0.45
2:R9:247:ALA:HB2	2:R9:357:TYR:OH	2.16	0.45
2:R9:265:ILE:HD11	2:R9:435:VAL:HG21	1.98	0.45
1:S0:8:GLN:CD	1:S0:17:GLY:HA3	2.37	0.45
1:S0:176:SER:OG	2:S1:349:THR:HB	2.16	0.45
1:S0:211:CYS:SG	1:S0:220:PRO:HB3	2.56	0.45
1:S2:183:TYR:HA	1:S2:385:PHE:CE2	2.51	0.45
2:S5:66:ILE:O	2:S5:66:ILE:HG13	2.16	0.45
2:S9:414:GLU:H	2:S9:414:GLU:CD	2.15	0.45
2:T5:76:ASP:OD2	1:T6:46:ARG:NH2	2.49	0.45
1:T8:16:ILE:HD11	1:T8:136:CYS:HB3	1.97	0.45
2:U1:101:ASN:ND2	2:U1:143:GLY:HA2	2.31	0.45
2:U3:102:ASN:HB3	2:U3:105:ARG:HB3	1.98	0.45
2:U5:2:ARG:HA	2:U5:133:GLN:HE21	1.82	0.45
2:U5:129:CYS:SG	2:U5:130:THR:N	2.89	0.45
1:U6:371:SER:OG	1:U6:372:THR:N	2.49	0.45
1:U8:113:ILE:HG21	1:U8:150:LEU:HD22	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U8:282:ARG:HD3	1:U8:282:ARG:H	1.81	0.45
1:V4:279:GLN:HA	1:V4:282:ARG:HD3	1.98	0.45
1:V6:262:ARG:NH2	1:V6:414:ASN:OD1	2.49	0.45
1:V8:192:LEU:HD22	1:V8:196:ALA:HB2	1.98	0.45
1:V8:287:PRO:HA	1:V8:290:THR:HG22	1.98	0.45
1:W0:175:VAL:HG13	2:W1:329:ASN:OD1	2.16	0.45
1:X0:173:PRO:HD2	1:X0:380:ARG:NH1	2.30	0.45
1:X2:6:HIS:HD2	1:X2:134:GLN:HG3	1.80	0.45
2:X3:223:THR:O	2:X3:227:LEU:HG	2.16	0.45
1:X4:240:LEU:HD11	1:X4:250:LEU:HD11	1.98	0.45
2:X5:70:LEU:HA	2:X5:95:GLY:HA3	1.98	0.45
1:X6:3:GLU:HG3	1:X6:127:CYS:SG	2.56	0.45
2:X7:129:CYS:SG	2:X7:130:THR:N	2.88	0.45
2:Y1:223:THR:HG23	2:Y1:225:THR:H	1.81	0.45
1:Z4:393:ALA:O	1:Z4:394:PHE:HB2	2.15	0.45
2:Z7:21:TRP:CH2	2:Z7:63:PRO:HB3	2.50	0.45
1:0A:86:ARG:HD3	1:0A:88:ASP:HB2	1.99	0.45
2:0B:9:ILE:CG1	2:0B:139:ASN:HB3	2.47	0.45
1:0C:390:ARG:HB3	1:0C:391:ARG:HH11	1.82	0.45
1:0E:12:CYS:HB3	39:0E:501:GDP:C8	2.51	0.45
1:0E:116:VAL:O	1:0E:120:VAL:HG12	2.17	0.45
1:0G:203:ASP:OD2	1:0G:204:ASN:N	2.49	0.45
1:0I:327:ASP:HA	1:0I:330:MET:HE2	1.99	0.45
1:0M:20:PHE:HA	1:0M:230:SER:OG	2.16	0.45
1:0M:237:THR:HG23	1:0M:241:ARG:HH21	1.82	0.45
2:0N:195:LEU:HD11	2:0N:428:LEU:HD21	1.98	0.45
1:0Q:358:PRO:HG2	1:0Q:361:LEU:HB2	1.98	0.45
2:0V:5:ILE:HG22	2:0V:64:ARG:HB3	1.98	0.45
1:0W:95:THR:OG1	1:0W:96:GLY:N	2.49	0.45
1:0W:148:GLY:O	1:0W:152:ILE:HG13	2.16	0.45
1:0W:167:PHE:CE2	1:0W:233:MET:HG2	2.51	0.45
1:1C:95:THR:OG1	1:1C:96:GLY:N	2.48	0.45
2:1D:379:SER:OG	2:1D:380:ASN:N	2.49	0.45
1:1G:388:MET:HE1	2:1H:346:TRP:C	2.35	0.45
2:1H:123:ARG:HB3	2:1H:124:LYS:HZ2	1.80	0.45
1:1M:198:GLU:HB3	1:1M:258:ILE:HD11	1.98	0.45
2:1N:237:SER:HA	2:1N:320:ARG:HD2	1.98	0.45
2:1N:248:LEU:HD22	2:1N:354:GLY:HA2	1.97	0.45
2:1N:345:ASP:OD1	2:1N:346:TRP:N	2.48	0.45
2:1R:313:MET:HE2	2:1R:313:MET:HB3	1.77	0.45
1:1S:208:TYR:OH	2:1T:325:PRO:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1T:175:PRO:HG2	2:1T:176:GLN:OE1	2.15	0.45
2:1T:271:SER:HB3	2:1T:301:MET:HA	1.98	0.45
1:1U:292:GLN:HG2	1:1U:298:ASN:ND2	2.31	0.45
2:1V:5:ILE:HD11	2:1V:135:PHE:CE1	2.49	0.45
1:1W:309:ARG:H	1:1W:372:THR:HG22	1.81	0.45
2:1Z:120:ASP:HB3	38:7Z:27:HIS:CD2	2.50	0.45
2:2D:175:PRO:HB3	2:2D:390:ARG:NE	2.31	0.45
1:2I:53:GLU:HB3	1:2I:59:TYR:CE1	2.50	0.45
1:2K:358:PRO:HG2	1:2K:361:LEU:HB2	1.98	0.45
2:2N:211:ASP:OD1	2:2N:215:ARG:NH1	2.46	0.45
1:2U:178:THR:HG22	1:2U:181:GLU:HG3	1.98	0.45
2:2V:340:THR:N	38:8B:78:ASP:OD2	2.48	0.45
1:2W:236:ILE:HG23	1:2W:237:THR:HG23	1.97	0.45
1:2W:382:SER:HB3	1:2W:415:MET:HG2	1.99	0.45
2:2X:21:TRP:CZ2	2:2X:65:CYS:HB2	2.51	0.45
2:2X:66:ILE:HG13	2:2X:66:ILE:O	2.17	0.45
2:2Z:119:LEU:HA	2:2Z:122:ILE:HG22	1.99	0.45
2:2Z:282:TYR:CE1	10:5C:435:LEU:HD23	2.47	0.45
2:3B:214:ARG:HH22	38:8C:16:LYS:C	2.20	0.45
2:3B:244:PHE:HE1	38:8D:212:PRO:HG3	1.81	0.45
2:3D:70:LEU:HB3	2:3D:97:GLU:O	2.16	0.45
2:3D:420:GLU:HA	2:3D:423:GLU:HG3	1.98	0.45
1:3G:286:VAL:CG2	1:3G:287:PRO:HD3	2.46	0.45
2:3H:26:LEU:HD21	2:3H:363:VAL:HG13	1.97	0.45
1:3I:116:VAL:HA	1:3I:119:VAL:HG12	1.98	0.45
1:3K:228:LEU:O	1:3K:232:VAL:HG23	2.16	0.45
1:3O:292:GLN:HG2	1:3O:298:ASN:ND2	2.31	0.45
2:3P:296:PHE:CE2	2:3P:335:ILE:HD13	2.51	0.45
1:3S:6:HIS:CE1	1:3S:8:GLN:HG2	2.51	0.45
2:3T:408:TYR:CD1	2:3T:418:PHE:HZ	2.34	0.45
3:3V:46:ALA:CB	3:3V:166:ARG:HD2	2.46	0.45
4:4A:117:PHE:HB2	4:4A:118:ILE:HD12	1.97	0.45
4:4I:117:PHE:HB2	4:4I:118:ILE:HD12	1.97	0.45
3:4J:188:GLY:H	3:4J:190:LYS:HZ1	1.62	0.45
9:4Z:381:LEU:O	9:4Z:385:GLN:NE2	2.49	0.45
12:5F:342:ASN:O	12:5F:376:ARG:NH1	2.48	0.45
12:5F:386:ILE:HD11	12:7B:38:PRO:O	2.16	0.45
14:5L:189:THR:OG1	14:5L:227:LEU:HD12	2.15	0.45
14:5M:478:LYS:HD3	14:5M:483:GLU:HB2	1.98	0.45
14:5N:57:ASP:OD1	14:5N:58:LYS:N	2.47	0.45
14:5N:412:GLN:HG2	17:5U:9:LEU:HD13	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:5O:125:ILE:HG12	15:5O:159:VAL:HG13	1.98	0.45
15:5P:148:ARG:HH21	15:5P:151:ASP:CB	2.30	0.45
19:6E:224:THR:HA	19:6E:227:VAL:HG12	1.99	0.45
22:6J:16:LYS:HB2	22:6J:39:GLN:HE22	1.81	0.45
22:6J:219:ASP:N	22:6J:219:ASP:OD1	2.39	0.45
22:6K:197:ASP:O	22:6K:199:SER:N	2.50	0.45
22:6L:183:ASN:OD1	22:6L:184:ALA:N	2.50	0.45
22:6N:111:PRO:HD2	22:6N:112:PHE:CE2	2.51	0.45
24:6V:103:LYS:HG2	24:6V:116:ILE:HG12	1.98	0.45
24:6V:106:VAL:HG22	24:6V:107:VAL:H	1.80	0.45
24:6W:130:MET:HG3	24:6W:153:VAL:CG1	2.46	0.45
24:6X:443:LYS:O	24:6X:445:ILE:HD13	2.17	0.45
25:7C:18:TYR:O	25:7C:22:GLN:HG2	2.15	0.45
25:7C:22:GLN:OE1	25:7C:22:GLN:CA	2.64	0.45
34:7R:109:VAL:HG21	35:7T:58:ASN:HD21	1.82	0.45
35:7T:184:LEU:O	35:7T:188:MET:HG2	2.16	0.45
38:8B:8:GLU:O	38:8B:12:LEU:N	2.50	0.45
38:8C:110:ASN:ND2	38:8C:112:ILE:HB	2.31	0.45
38:8D:80:TYR:CD2	38:8D:80:TYR:C	2.89	0.45
2:2:196:GLU:OE2	4:3W:113:ARG:NH1	2.45	0.45
2:C7:12:ALA:HB2	41:C8:501:GTP:C8	2.51	0.45
2:E5:282:TYR:CZ	22:6K:80:GLY:O	2.69	0.45
1:F2:204:ASN:ND2	39:F2:501:GDP:HN22	2.14	0.45
2:G3:102:ASN:ND2	2:G3:105:ARG:HB2	2.31	0.45
1:G4:183:TYR:HA	1:G4:385:PHE:HE1	1.81	0.45
1:G4:274:THR:HG21	1:G4:282:ARG:HE	1.81	0.45
2:G7:371:VAL:HG22	2:G7:373:ARG:H	1.81	0.45
1:G8:121:ARG:NH2	1:G8:158:GLU:OE2	2.43	0.45
1:G8:211:CYS:O	1:G8:216:LYS:N	2.49	0.45
2:G9:269:LEU:HD11	2:G9:379:SER:HB2	1.97	0.45
2:H1:11:GLN:HB3	41:H2:501:GTP:PA	2.56	0.45
1:H2:207:LEU:HB3	1:H2:225:LEU:HD22	1.98	0.45
2:H5:287:SER:OG	2:H5:288:VAL:N	2.49	0.45
1:H6:7:ILE:HB	1:H6:135:VAL:HG22	1.98	0.45
2:I5:312:TYR:O	2:I5:344:VAL:HG13	2.17	0.45
1:I8:135:VAL:HG12	1:I8:137:HIS:HD2	1.81	0.45
1:I8:154:LYS:O	1:I8:157:GLU:HG2	2.16	0.45
1:J0:334:GLN:NE2	1:J0:348:ASN:OD1	2.50	0.45
2:J1:124:LYS:HA	2:J1:127:ASP:OD1	2.16	0.45
1:J2:7:ILE:HB	1:J2:135:VAL:HG22	1.98	0.45
2:J5:179:THR:O	1:J6:350:LYS:HD2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J6:177:ASP:O	2:J7:352:LYS:HD2	2.15	0.45
2:J9:267:PHE:HB2	2:J9:384:ILE:HD12	1.98	0.45
2:K7:88:HIS:CE1	2:K7:90:GLU:HG3	2.52	0.45
2:L3:8:HIS:O	2:L3:68:LEU:HD23	2.16	0.45
1:L4:239:CYS:HA	1:L4:354:CYS:SG	2.57	0.45
2:L7:66:ILE:O	2:L7:66:ILE:HG13	2.16	0.45
2:L7:377:MET:SD	2:L7:379:SER:OG	2.75	0.45
1:M0:317:PHE:HB3	1:M0:321:MET:SD	2.57	0.45
1:M6:317:PHE:HB3	1:M6:321:MET:SD	2.56	0.45
2:N1:420:GLU:HA	2:N1:423:GLU:HG3	1.97	0.45
2:N3:9:ILE:HD11	2:N3:139:ASN:HB3	1.98	0.45
2:N5:327:ASP:OD2	2:N5:327:ASP:N	2.47	0.45
1:N6:113:ILE:HD11	1:N6:151:LEU:HB2	1.99	0.45
1:N6:173:PRO:HG3	1:N6:380:ARG:HD3	1.98	0.45
1:O0:379:LYS:HA	1:O0:382:SER:OG	2.16	0.45
1:O6:20:PHE:HA	1:O6:230:SER:OG	2.16	0.45
2:O9:267:PHE:HB3	2:O9:384:ILE:HG21	1.98	0.45
1:P4:246:LEU:HD22	1:P4:352:SER:HA	1.98	0.45
1:P6:54:ALA:HB3	1:P6:58:ARG:HB3	1.98	0.45
2:P7:217:LEU:HB3	2:P7:219:ILE:HD12	1.98	0.45
1:P8:101:TRP:HB2	1:P8:184:ASN:OD1	2.17	0.45
1:Q0:41:ASP:OD2	1:Q0:41:ASP:N	2.49	0.45
2:Q1:339:ARG:CD	5:4M:18:LEU:HD21	2.46	0.45
2:Q3:174:SER:OG	2:Q3:175:PRO:HD2	2.17	0.45
1:Q4:180:VAL:HG23	1:Q4:184:ASN:HD21	1.81	0.45
2:Q5:51:THR:HG21	2:Q5:243:ARG:HG2	1.98	0.45
2:Q5:344:VAL:HG22	2:Q5:346:TRP:H	1.82	0.45
1:Q6:51:PHE:HB3	1:Q6:59:TYR:HB3	1.98	0.45
1:Q8:10:GLY:HA2	1:Q8:143:THR:HG23	1.97	0.45
1:R2:92:PHE:HE2	24:6V:35:TYR:CD1	2.23	0.45
1:R4:248:ALA:HA	1:R4:252:LYS:HD2	1.97	0.45
2:R5:39:ASP:OD1	11:5E:125:ARG:N	2.48	0.45
1:R6:232:VAL:O	1:R6:236:ILE:HG12	2.16	0.45
2:R7:66:ILE:O	2:R7:66:ILE:HG13	2.16	0.45
2:R9:415:GLU:HA	2:R9:418:PHE:HD2	1.79	0.45
1:S0:189:VAL:O	1:S0:193:VAL:HG13	2.15	0.45
1:S4:175:VAL:O	1:S4:175:VAL:HG13	2.17	0.45
1:S4:203:ASP:OD2	1:S4:302:ALA:N	2.50	0.45
2:S5:216:SER:HB3	2:S5:275:ILE:O	2.17	0.45
2:S5:289:ALA:O	2:S5:293:ASN:ND2	2.49	0.45
2:S5:394:LYS:HB2	1:S6:346:PRO:HG3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S6:49:VAL:HG11	1:S6:241:ARG:HG2	1.98	0.45
2:S9:155:GLU:HB2	2:S9:197:HIS:CE1	2.51	0.45
2:S9:279:GLU:HA	7:4T:336:GLN:HE21	1.80	0.45
2:S9:339:ARG:HB3	13:5I:26:ALA:HB2	1.98	0.45
2:T1:15:GLN:HB3	2:T1:228:ASN:HD21	1.81	0.45
1:T2:244:GLY:HA2	1:T2:355:ASP:OD2	2.16	0.45
2:T3:90:GLU:OE2	2:T3:90:GLU:CA	2.61	0.45
1:T6:54:ALA:HB1	1:T6:55:THR:HG23	1.98	0.45
1:T8:3:GLU:HB2	1:T8:130:LEU:HA	1.98	0.45
1:T8:227:HIS:HE1	31:7N:3:ILE:HA	1.81	0.45
2:U1:312:TYR:HB2	2:U1:343:PHE:CD1	2.50	0.45
2:U3:65:CYS:SG	2:U3:66:ILE:N	2.89	0.45
1:U4:113:ILE:CD1	1:U4:150:LEU:HG	2.46	0.45
2:U5:216:SER:OG	2:U5:275:ILE:O	2.30	0.45
2:U7:325:PRO:HA	2:U7:328:VAL:HG12	1.97	0.45
2:V7:167:LEU:HD13	2:V7:200:VAL:HB	1.98	0.45
2:V7:387:ILE:HG12	2:V7:390:ARG:HH22	1.82	0.45
2:W1:275:ILE:O	2:W1:275:ILE:HG13	2.16	0.45
1:W2:172:SER:OG	1:W2:173:PRO:HD2	2.17	0.45
1:W2:418:LEU:O	1:W2:421:GLU:HG2	2.16	0.45
1:W4:5:VAL:HG12	1:W4:133:PHE:CD1	2.51	0.45
1:W4:183:TYR:HB3	1:W4:398:TYR:HE2	1.80	0.45
2:W5:90:GLU:HB3	2:W5:121:ARG:HH12	1.79	0.45
2:W5:284:GLU:OE1	2:W5:284:GLU:CA	2.60	0.45
1:W8:21:TRP:CZ3	1:W8:61:PRO:HB3	2.52	0.45
2:X3:156:ARG:HA	2:X3:159:VAL:HG12	1.99	0.45
2:X5:9:ILE:HG22	2:X5:146:GLY:HA2	1.98	0.45
2:X5:70:LEU:HD11	2:X5:149:LEU:CD2	2.46	0.45
2:X9:324:VAL:HG22	2:X9:326:LYS:H	1.82	0.45
2:Y5:154:LEU:HA	2:Y5:157:LEU:HD23	1.97	0.45
1:Y6:114:ASP:N	1:Y6:114:ASP:OD1	2.47	0.45
1:Z2:155:ILE:HG23	1:Z2:164:MET:HE1	1.97	0.45
2:Z3:119:LEU:HA	2:Z3:122:ILE:HG22	1.98	0.45
1:Z4:51:PHE:HB3	1:Z4:59:TYR:HB3	1.98	0.45
1:Z6:117:LEU:HD23	1:Z6:117:LEU:HA	1.83	0.45
1:Z6:361:LEU:HD23	1:Z6:361:LEU:HA	1.84	0.45
2:Z7:28:HIS:CE1	2:Z7:49:PHE:HA	2.51	0.45
2:Z7:102:ASN:ND2	2:Z7:411:GLU:HG3	2.26	0.45
1:Z8:87:PRO:HA	1:Z8:90:PHE:CD2	2.52	0.45
2:0F:177:VAL:HB	1:0G:327:ASP:OD2	2.16	0.45
2:0H:3:GLU:HG3	2:0H:51:THR:HA	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0K:237:THR:HG23	1:0K:241:ARG:HH21	1.82	0.45
1:0K:238:CYS:SG	1:0K:318:ARG:NE	2.89	0.45
1:0K:244:GLY:HA3	1:0K:354:CYS:HA	1.99	0.45
2:0L:344:VAL:O	2:0L:344:VAL:CG1	2.64	0.45
2:0N:297:GLU:OE2	2:0N:299:ALA:HB3	2.15	0.45
2:0P:15:GLN:HB3	2:0P:228:ASN:ND2	2.31	0.45
2:0P:223:THR:OG1	1:0Q:245:GLN:NE2	2.49	0.45
1:0Q:244:GLY:HA3	1:0Q:354:CYS:HA	1.97	0.45
2:0R:90:GLU:HB2	2:1H:283:HIS:CE1	2.51	0.45
2:0Z:4:VAL:HG23	2:0Z:134:GLY:O	2.15	0.45
2:0Z:65:CYS:SG	2:0Z:66:ILE:N	2.89	0.45
1:1C:257:LEU:HD21	1:1C:314:SER:OG	2.16	0.45
1:1G:128:ASP:OD1	1:1G:129:CYS:N	2.49	0.45
1:1M:326:VAL:O	1:1M:330:MET:HG2	2.17	0.45
2:1R:406:HIS:HA	2:1R:409:VAL:HG22	1.98	0.45
1:1S:174:LYS:HD3	1:1S:205:GLU:OE2	2.17	0.45
1:1U:221:THR:OG1	1:1U:222:PHE:N	2.49	0.45
2:1X:370:LYS:NZ	9:4Z:387:ARG:HB3	2.32	0.45
1:2A:207:LEU:HB3	1:2A:225:LEU:HD22	1.98	0.45
1:2A:240:LEU:HD21	1:2A:249:ASP:HB2	1.98	0.45
2:2B:133:GLN:HB3	2:2B:252:ILE:CG2	2.46	0.45
1:2E:128:ASP:OD1	1:2E:129:CYS:N	2.47	0.45
2:2H:279:GLU:OE2	10:5B:167:ILE:HD13	2.16	0.45
2:2H:420:GLU:HA	2:2H:423:GLU:HG3	1.99	0.45
1:2K:276:ARG:HB3	10:5B:249:LEU:HD11	1.98	0.45
2:2P:244:PHE:HB2	2:2P:356:ASN:HD21	1.81	0.45
2:2P:287:SER:OG	2:2P:288:VAL:N	2.50	0.45
2:2P:297:GLU:CD	38:7Z:25:ILE:H	2.19	0.45
1:2Q:55:THR:H	1:2Q:58:ARG:HB3	1.81	0.45
1:2Y:178:THR:HG22	1:2Y:181:GLU:HG3	1.98	0.45
2:2Z:91:GLN:HA	2:2Z:121:ARG:HH12	1.81	0.45
2:3B:213:CYS:HA	2:3B:217:LEU:HB2	1.97	0.45
2:3D:101:ASN:N	41:3D:501:GTP:O3G	2.40	0.45
2:3D:269:LEU:HB2	2:3D:379:SER:OG	2.17	0.45
2:3F:157:LEU:HD23	2:3F:157:LEU:HA	1.85	0.45
2:3F:223:THR:HG23	2:3F:225:THR:H	1.82	0.45
2:3H:246:GLY:HA2	2:3H:357:TYR:CD2	2.51	0.45
1:3M:145:SER:OG	1:3M:188:SER:OG	2.33	0.45
1:3M:203:ASP:O	1:3M:207:LEU:HG	2.15	0.45
2:3N:11:GLN:HB3	41:3O:501:GTP:O2A	2.15	0.45
2:3N:182:VAL:HG12	2:3N:182:VAL:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3O:3:GLU:HB2	1:3O:130:LEU:HA	1.99	0.45
1:3O:203:ASP:OD2	1:3O:302:ALA:N	2.49	0.45
1:3O:208:TYR:HB3	2:3P:326:LYS:HE2	1.98	0.45
1:3S:177:ASP:O	2:3T:352:LYS:HA	2.17	0.45
2:3T:102:ASN:HD21	2:3T:411:GLU:HG3	1.82	0.45
4:3W:117:PHE:HB2	4:3W:118:ILE:HD12	1.97	0.45
3:3Z:38:THR:HG21	4:4A:3:LYS:HB2	1.99	0.45
3:4B:7:GLY:C	3:4B:140:LYS:HE2	2.37	0.45
3:4D:173:ARG:O	3:4D:177:VAL:HG23	2.16	0.45
4:4G:117:PHE:HB2	4:4G:118:ILE:HD12	1.97	0.45
6:4O:388:GLN:O	6:4O:391:LEU:HG	2.16	0.45
6:4O:459:ARG:HH22	6:4O:483:ASP:CG	2.19	0.45
7:4S:12:ASP:OD1	7:4S:13:PRO:CD	2.45	0.45
12:5G:299:SER:OG	12:5G:300:PRO:HD3	2.15	0.45
15:5P:162:GLU:HB2	15:5P:222:PHE:CE1	2.44	0.45
16:5Q:38:THR:HG21	16:5Q:73:ILE:HG13	1.99	0.45
16:5Q:84:ASP:O	16:5Q:88:THR:HG22	2.16	0.45
17:5S:82:LYS:HA	17:5S:82:LYS:HD3	1.76	0.45
22:6J:187:MET:SD	22:6J:256:TYR:HB2	2.56	0.45
22:6N:166:ILE:HD11	22:6N:226:LEU:HD11	1.97	0.45
22:6P:188:ARG:HG3	22:6P:193:MET:HB2	1.97	0.45
24:6T:106:VAL:HG12	24:6T:113:ASN:C	2.37	0.45
24:6U:123:TYR:HD1	24:6U:130:MET:SD	2.39	0.45
24:6U:602:LEU:HG	24:6U:604:PHE:HD1	1.82	0.45
24:6V:151:HIS:NE2	24:6V:175:TYR:OH	2.47	0.45
24:6V:214:ARG:HH21	24:6V:223:ARG:NH2	2.14	0.45
24:6V:271:LYS:HB3	24:6V:298:LEU:HD12	1.97	0.45
24:6W:185:ASP:OD1	24:6W:186:SER:N	2.48	0.45
24:6X:444:ILE:HD13	24:6X:542:TYR:HE1	1.79	0.45
24:6Y:304:GLU:OE1	24:6Y:306:LEU:HG	2.17	0.45
24:6Z:341:LYS:HB3	24:6Z:341:LYS:HE3	1.74	0.45
24:6Z:451:LYS:HD2	24:6Z:468:ARG:CZ	2.46	0.45
24:6Z:487:VAL:HG11	24:6Z:490:THR:HG23	1.98	0.45
24:7A:123:TYR:CE2	24:7A:163:PRO:HG3	2.51	0.45
27:7G:91:TYR:CE1	27:7G:99:ARG:HG2	2.44	0.45
29:7J:414:HIS:HA	29:7J:417:TYR:CD1	2.51	0.45
30:7K:42:ASN:HB3	30:7K:45:ARG:NH2	2.31	0.45
30:7K:62:GLU:HB3	30:7K:63:PRO:HD2	1.98	0.45
38:8C:8:GLU:CG	38:8C:21:LYS:HD3	2.43	0.45
2:8:365:GLY:CA	26:7E:38:ASN:OD1	2.64	0.45
2:C5:367:ASP:OD1	18:5X:181:GLN:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E4:276:ARG:HG3	24:6V:315:ARG:HH12	1.82	0.45
1:G2:392:LYS:HG3	1:G2:395:LEU:CD2	2.45	0.45
2:G5:387:ILE:HD12	2:G5:390:ARG:HH22	1.81	0.45
1:G6:32:PRO:HD3	1:G6:81:TYR:CZ	2.51	0.45
1:G8:224:ASP:OD2	1:G8:225:LEU:N	2.48	0.45
2:G9:23:LEU:HG	2:G9:27:GLU:OE1	2.16	0.45
2:H1:90:GLU:HB2	2:I7:283:HIS:CE1	2.52	0.45
2:H1:90:GLU:N	2:H1:90:GLU:OE1	2.49	0.45
1:H4:193:VAL:HG13	1:H4:194:GLU:HG2	1.99	0.45
2:H9:156:ARG:HA	2:H9:159:VAL:HG12	1.97	0.45
2:H9:178:SER:OG	1:I0:347:ASN:HB3	2.16	0.45
2:I3:141:VAL:HG13	2:I3:170:THR:CG2	2.46	0.45
2:I5:155:GLU:O	2:I5:158:SER:OG	2.33	0.45
2:I5:387:ILE:O	2:I5:391:LEU:HG	2.15	0.45
2:I7:217:LEU:HB3	2:I7:219:ILE:HD12	1.98	0.45
1:J0:289:LEU:O	1:J0:293:MET:HG3	2.17	0.45
2:J1:151:SER:HB2	2:J1:193:SER:OG	2.17	0.45
2:J1:267:PHE:HB2	2:J1:384:ILE:HD12	1.98	0.45
1:J6:114:ASP:N	1:J6:114:ASP:OD1	2.49	0.45
2:K1:50:ASN:O	2:K1:64:ARG:NH2	2.49	0.45
2:K5:194:LEU:O	2:K5:198:THR:HG22	2.16	0.45
2:K7:292:THR:HG21	2:K7:331:SER:HB3	1.98	0.45
2:L1:319:TYR:HB3	2:L1:323:VAL:HG11	1.97	0.45
2:L3:88:HIS:CD2	2:L3:90:GLU:H	2.35	0.45
1:L6:145:SER:OG	1:L6:146:GLY:N	2.49	0.45
1:L6:211:CYS:HA	1:L6:215:LEU:HB2	1.97	0.45
2:L9:365:GLY:HA3	29:7I:118:ALA:HB1	1.98	0.45
2:M1:66:ILE:O	2:M1:66:ILE:HG13	2.16	0.45
1:M4:125:GLU:OE2	1:M4:159:TYR:OH	2.34	0.45
1:M4:362:LYS:CD	30:7K:173:GLU:HG3	2.47	0.45
2:N7:196:GLU:OE2	2:N7:196:GLU:N	2.43	0.45
1:O6:271:THR:OG1	1:O6:365:ALA:HB3	2.17	0.45
1:O8:181:GLU:OE2	2:O9:349:THR:HG21	2.16	0.45
1:O8:207:LEU:HB3	1:O8:225:LEU:HD22	1.98	0.45
2:P3:306:ASP:OD2	2:P3:308:ARG:HB2	2.15	0.45
1:P4:175:VAL:O	1:P4:175:VAL:HG23	2.16	0.45
1:P6:125:GLU:OE2	1:R2:291:GLN:NE2	2.49	0.45
2:P9:115:VAL:HG22	2:P9:119:LEU:HD23	1.97	0.45
1:Q0:203:ASP:OD2	1:Q0:204:ASN:N	2.50	0.45
2:Q1:9:ILE:HD13	2:Q1:150:GLY:HA2	1.99	0.45
1:Q2:73:MET:HE1	1:Q2:90:PHE:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q8:327:ASP:OD1	1:Q8:328:GLU:N	2.49	0.45
1:R4:111:GLU:HG3	13:5I:119:VAL:HG11	1.99	0.45
2:R5:53:PHE:O	2:R5:64:ARG:NH2	2.49	0.45
1:S2:362:LYS:HB2	7:4R:353:LYS:H	1.81	0.45
1:S4:224:ASP:HB3	24:6U:12:PRO:HB3	1.98	0.45
1:S6:69:GLU:C	1:S6:92:PHE:HZ	2.20	0.45
2:S7:319:TYR:HB3	2:S7:323:VAL:HG21	1.98	0.45
1:S8:50:TYR:CD2	1:S8:241:ARG:HD3	2.51	0.45
1:S8:271:THR:HG23	1:S8:365:ALA:HB3	1.99	0.45
2:T1:324:VAL:N	7:4U:25:ARG:HH21	2.06	0.45
1:T4:152:ILE:HD13	1:T4:155:ILE:HD11	1.98	0.45
2:T5:119:LEU:HD11	2:T5:156:ARG:HB2	1.98	0.45
1:T6:342:VAL:HG11	1:T6:345:ILE:HD12	1.99	0.45
1:T8:273:LEU:H	1:T8:292:GLN:HE22	1.64	0.45
2:U3:76:ASP:O	2:U3:80:THR:HG23	2.16	0.45
2:U3:277:SER:H	2:U3:280:LYS:HZ2	1.63	0.45
2:U5:8:HIS:CD2	2:U5:17:GLY:HA3	2.51	0.45
2:V1:60:LYS:HA	2:V1:60:LYS:HD2	1.61	0.45
1:V2:97:ALA:HA	1:V2:103:LYS:HE3	1.99	0.45
1:V6:46:ARG:HG2	1:V6:241:ARG:HA	1.97	0.45
1:V8:149:THR:HA	1:V8:152:ILE:HG22	1.97	0.45
2:V9:27:GLU:OE1	2:V9:243:ARG:NH1	2.49	0.45
2:W1:187:SER:O	2:W1:191:THR:HG23	2.16	0.45
1:W4:166:THR:HG23	1:W4:199:CYS:HB2	1.99	0.45
1:W6:342:VAL:HG21	1:W6:345:ILE:HD12	1.98	0.45
2:W9:116:ASP:N	2:W9:116:ASP:OD1	2.45	0.45
1:X2:8:GLN:OE1	1:X2:8:GLN:N	2.49	0.45
2:X3:305:CYS:CB	2:X3:387:ILE:HD11	2.42	0.45
1:X6:192:LEU:HD23	1:X6:192:LEU:HA	1.80	0.45
1:X8:2:ARG:NE	1:X8:240:LEU:HD22	2.31	0.45
2:X9:417:GLU:HA	2:X9:420:GLU:HG2	1.97	0.45
1:Y0:224:ASP:N	1:Y0:224:ASP:OD1	2.44	0.45
2:Y1:14:ILE:HD11	2:Y1:74:VAL:HG13	1.97	0.45
2:Y1:384:ILE:HA	2:Y1:387:ILE:HD12	1.98	0.45
2:Y1:407:TRP:CD2	1:Y2:255:VAL:HG12	2.52	0.45
2:Y3:3:GLU:O	2:Y3:133:GLN:N	2.41	0.45
2:Y5:88:HIS:ND1	2:0B:283:HIS:HA	2.30	0.45
1:Y6:224:ASP:OD1	1:Y6:225:LEU:HG	2.16	0.45
1:Y8:274:THR:OG1	1:Y8:282:ARG:NH1	2.49	0.45
1:Z0:294:TRP:CD1	1:Z0:333:VAL:HG21	2.51	0.45
2:Z1:107:HIS:O	2:Z1:152:LEU:HD12	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z2:189:VAL:HA	1:Z2:192:LEU:HB3	1.99	0.45
1:Z2:324:LYS:NZ	1:Z2:325:GLU:OE2	2.41	0.45
2:Z3:344:VAL:HG22	2:Z3:346:TRP:H	1.80	0.45
2:Z5:334:THR:HA	2:Z5:337:THR:HG22	1.98	0.45
2:0B:116:ASP:OD1	2:0B:117:LEU:HD12	2.15	0.45
1:0E:175:VAL:HG13	1:0E:175:VAL:O	2.17	0.45
1:0E:178:THR:HG22	1:0E:179:VAL:H	1.81	0.45
1:0E:183:TYR:O	1:0E:187:LEU:HD13	2.15	0.45
1:0G:172:SER:OG	1:0G:380:ARG:NH2	2.49	0.45
2:0H:387:ILE:HD12	2:0H:390:ARG:HH22	1.81	0.45
2:0L:396:ASP:HB2	2:0L:422:ARG:HH21	1.80	0.45
1:0M:375:GLN:HB3	1:0M:422:TYR:HD2	1.82	0.45
2:0N:215:ARG:NH1	2:0N:299:ALA:HB1	2.31	0.45
1:0O:178:THR:HG22	2:0P:352:LYS:HE2	1.98	0.45
1:0Q:272:PRO:O	1:0Q:273:LEU:HD23	2.16	0.45
2:0R:33:ASP:OD2	2:0R:35:GLN:NE2	2.49	0.45
2:0R:290:GLU:HA	2:0R:293:ASN:HD22	1.81	0.45
1:0S:375:GLN:HA	1:0S:378:PHE:HD2	1.81	0.45
1:0Y:242:PHE:CD1	1:0Y:356:ILE:HG13	2.50	0.45
2:0Z:73:THR:HA	1:1A:46:ARG:NH2	2.30	0.45
2:0Z:134:GLY:HA2	2:0Z:164:LYS:HG3	1.99	0.45
1:1G:297:LYS:HA	1:1G:297:LYS:HD3	1.70	0.45
2:1H:109:THR:HB	2:1H:110:ILE:HD12	1.97	0.45
1:1K:48:ASN:N	1:1K:48:ASN:OD1	2.49	0.45
1:1M:21:TRP:HA	1:1M:24:VAL:HG12	1.97	0.45
2:1N:49:PHE:HB2	2:1N:53:PHE:HD2	1.81	0.45
2:1P:330:ALA:O	2:1P:334:THR:HG23	2.16	0.45
2:1V:289:ALA:O	2:1V:293:ASN:ND2	2.50	0.45
2:1X:431:ASP:O	2:1X:435:VAL:HG22	2.16	0.45
2:1Z:76:ASP:HA	2:1Z:79:ARG:HB2	1.97	0.45
2:2B:108:TYR:O	2:2B:112:LYS:HG2	2.16	0.45
2:2F:12:ALA:HB2	41:2G:501:GTP:C8	2.51	0.45
2:2F:245:ASP:OD1	2:2F:245:ASP:N	2.49	0.45
2:2J:55:GLU:OE1	2:2J:59:GLY:N	2.49	0.45
2:2J:274:PRO:HB2	2:2J:276:ILE:HG12	1.97	0.45
1:2K:152:ILE:HD12	1:2K:164:MET:SD	2.57	0.45
1:2K:334:GLN:HE22	1:2K:348:ASN:H	1.62	0.45
1:2Q:392:LYS:HD2	1:2Q:395:LEU:HD22	1.99	0.45
2:2R:317:LEU:HB3	2:2R:319:TYR:HE1	1.81	0.45
1:2W:309:ARG:H	1:2W:372:THR:HG22	1.81	0.45
2:2Z:97:GLU:N	2:2Z:97:GLU:OE1	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3G:117:LEU:HD23	1:3G:117:LEU:HA	1.83	0.45
1:3G:122:LYS:HD3	3:3X:262:TYR:HA	1.98	0.45
1:3I:68:LEU:HD21	1:3I:112:LEU:HD22	1.97	0.45
1:3I:203:ASP:OD1	1:3I:205:GLU:N	2.48	0.45
2:3J:301:MET:HE1	2:3J:307:PRO:HD3	1.98	0.45
1:3M:276:ARG:NH1	38:8C:236:CYS:SG	2.89	0.45
2:3P:23:LEU:HD11	2:3P:233:GLN:NE2	2.32	0.45
1:3Q:22:GLU:HG3	1:3Q:81:TYR:CD1	2.52	0.45
1:3Q:86:ARG:HB3	1:3Q:89:ASN:OD1	2.17	0.45
1:3Q:173:PRO:HG3	1:3Q:380:ARG:HD2	1.99	0.45
2:3R:100:ALA:HA	1:3S:252:LYS:HE3	1.99	0.45
4:3Y:117:PHE:HB2	4:3Y:118:ILE:HD12	1.97	0.45
3:3Z:173:ARG:O	3:3Z:177:VAL:HG23	2.16	0.45
3:4H:173:ARG:O	3:4H:177:VAL:HG23	2.16	0.45
6:4N:469:LEU:H	6:4N:469:LEU:HD23	1.81	0.45
10:5A:413:GLU:O	10:5A:416:GLU:HG3	2.17	0.45
14:5L:331:LYS:HE2	14:5L:331:LYS:HB2	1.76	0.45
17:5S:183:ARG:HA	17:5S:186:LYS:HE3	1.97	0.45
20:6F:343:SER:C	20:6F:344:LEU:HD22	2.37	0.45
21:6H:106:ARG:CB	24:6X:81:THR:HG23	2.46	0.45
22:6I:185:PHE:O	22:6I:188:ARG:N	2.49	0.45
22:6O:102:ILE:O	22:6O:102:ILE:HG13	2.16	0.45
23:6Q:24:LYS:HE2	23:6Q:56:ILE:HG22	1.98	0.45
24:6V:505:LYS:N	24:6V:510:GLU:O	2.47	0.45
24:6V:602:LEU:HG	24:6V:604:PHE:HD1	1.82	0.45
24:6V:627:GLU:H	24:6V:627:GLU:CD	2.19	0.45
24:6W:451:LYS:HE3	24:6W:451:LYS:HB2	1.86	0.45
24:6X:371:ALA:HB1	24:6X:375:THR:OG1	2.16	0.45
24:6Z:615:ARG:HG2	24:6Z:616:LEU:HD23	1.98	0.45
30:7K:216:VAL:O	30:7K:216:VAL:HG13	2.16	0.45
30:7L:436:CYS:HB3	30:7L:439:THR:HG22	1.98	0.45
34:7S:213:HIS:HE1	35:7U:166:GLU:HG2	1.80	0.45
34:7S:257:ARG:HH11	34:7S:261:MET:HG2	1.81	0.45
38:8A:93:LYS:C	38:8A:93:LYS:CD	2.85	0.45
38:8A:208:GLU:HG3	38:8A:210:HIS:CE1	2.50	0.45
2:A2:221:ARG:HB3	26:7F:77:ILE:O	2.17	0.45
1:A3:215:LEU:HD12	26:7F:136:PHE:CD2	2.51	0.45
1:C0:320:ARG:NH1	18:6C:53:GLY:HA3	2.32	0.45
1:D0:320:ARG:NH2	18:5Z:188:ASP:OD1	2.50	0.45
2:G1:12:ALA:HB2	41:G1:501:GTP:C8	2.51	0.45
2:G3:111:GLY:HA2	2:G3:114:ILE:HG22	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G3:181:VAL:O	2:G3:184:PRO:HD2	2.17	0.45
1:G4:183:TYR:HD2	1:G4:398:TYR:HE2	1.65	0.45
2:G5:71:GLU:HG2	2:G5:73:THR:H	1.81	0.45
1:G6:219:THR:N	24:6Y:418:ASP:OD1	2.49	0.45
2:H1:222:PRO:O	1:H2:322:SER:OG	2.27	0.45
2:H1:414:GLU:HG2	2:H1:416:GLY:H	1.82	0.45
1:H2:199:CYS:SG	1:H2:265:PHE:HE1	2.39	0.45
2:H3:111:GLY:HA2	2:H3:114:ILE:HG22	1.98	0.45
1:H6:276:ARG:CZ	24:6V:490:THR:CA	2.95	0.45
1:I0:192:LEU:HD23	1:I0:192:LEU:HA	1.80	0.45
1:I4:398:TYR:O	1:I4:401:GLU:HG3	2.15	0.45
2:I5:115:VAL:HG23	2:I5:153:LEU:HB3	1.99	0.45
2:I9:290:GLU:HA	2:I9:293:ASN:HD22	1.81	0.45
2:J5:109:THR:O	35:7T:42:LYS:HE3	2.16	0.45
2:J7:80:THR:O	29:7J:391:PRO:HD3	2.17	0.45
1:J8:199:CYS:SG	1:J8:200:MET:N	2.89	0.45
1:J8:286:VAL:HG22	1:J8:321:MET:HE2	1.98	0.45
2:K3:312:TYR:HB2	2:K3:343:PHE:CD1	2.52	0.45
2:K5:11:GLN:HB3	41:K6:501:GTP:PA	2.56	0.45
2:K7:12:ALA:HB2	41:K7:501:GTP:C8	2.51	0.45
2:K7:50:ASN:O	2:K7:64:ARG:NH2	2.50	0.45
2:K7:79:ARG:O	2:K7:84:ARG:HG2	2.16	0.45
1:K8:285:THR:HG23	1:K8:288:GLU:OE1	2.17	0.45
1:L0:65:LEU:HD12	1:L0:90:PHE:CE1	2.51	0.45
1:L0:138:SER:O	1:L0:139:LEU:HD23	2.17	0.45
1:L0:233:MET:O	1:L0:236:ILE:HG22	2.17	0.45
1:L4:67:ASP:N	1:L4:67:ASP:OD1	2.49	0.45
2:M1:187:SER:O	2:M1:191:THR:HG23	2.16	0.45
2:M3:213:CYS:HA	2:M3:217:LEU:HB2	1.99	0.45
2:M3:285:GLN:HG3	30:7K:215:ALA:HB2	1.98	0.45
1:M4:237:THR:HG22	1:M4:237:THR:O	2.16	0.45
2:M5:76:ASP:O	2:M5:80:THR:HG23	2.16	0.45
2:M5:116:ASP:N	2:M5:116:ASP:OD1	2.50	0.45
1:N2:180:VAL:HG23	1:N2:184:ASN:HD21	1.81	0.45
1:N2:245:GLN:HG2	29:7J:110:THR:HG21	1.98	0.45
2:N5:317:LEU:HB3	2:N5:319:TYR:HE1	1.81	0.45
2:N7:3:GLU:HB2	2:N7:129:CYS:SG	2.57	0.45
2:N7:308:ARG:HE	32:7O:15:VAL:HG21	1.81	0.45
2:N9:406:HIS:HA	2:N9:409:VAL:HG12	1.98	0.45
1:O2:6:HIS:CE1	1:O2:8:GLN:HG2	2.52	0.45
1:O2:393:ALA:CB	2:O3:346:TRP:NE1	2.78	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O3:9:ILE:HD13	2:O3:150:GLY:HA2	1.98	0.45
1:O6:207:LEU:HD23	1:O6:225:LEU:HB3	1.99	0.45
2:O7:12:ALA:HB2	41:O8:501:GTP:C8	2.51	0.45
1:P4:70:PRO:N	1:P4:92:PHE:HZ	2.15	0.45
1:P4:134:GLN:HE21	1:P4:167:PHE:HE2	1.65	0.45
1:P4:382:SER:OG	1:P4:412:GLU:OE1	2.34	0.45
2:P5:275:ILE:HD12	2:P5:368:LEU:HD21	1.97	0.45
1:P6:65:LEU:HD12	1:P6:90:PHE:CE1	2.51	0.45
1:P8:272:PRO:HD3	1:P8:364:SER:HA	1.97	0.45
1:Q0:177:ASP:N	1:Q0:181:GLU:OE2	2.50	0.45
1:Q2:175:VAL:HG22	2:Q3:329:ASN:ND2	2.32	0.45
2:Q5:62:VAL:HG13	2:S1:283:HIS:HD1	1.82	0.45
1:Q6:107:THR:OG1	1:Q6:108:GLU:OE1	2.23	0.45
2:Q9:33:ASP:OD1	2:Q9:33:ASP:N	2.48	0.45
2:Q9:121:ARG:HD2	2:Q9:121:ARG:HA	1.67	0.45
2:R1:108:TYR:HA	2:R1:112:LYS:NZ	2.31	0.45
2:R3:8:HIS:CD2	2:R3:17:GLY:HA3	2.52	0.45
2:R3:122:ILE:HD13	2:R3:122:ILE:HA	1.80	0.45
1:R8:2:ARG:HB3	1:R8:131:GLN:HB2	1.97	0.45
2:R9:81:GLY:HA3	12:5F:106:TYR:CE2	2.50	0.45
1:S4:152:ILE:HD12	1:S4:164:MET:SD	2.57	0.45
2:S7:53:PHE:HB3	2:S7:61:HIS:HB3	1.98	0.45
2:S7:56:THR:HG23	2:S7:60:LYS:HB3	1.99	0.45
2:S7:109:THR:HB	2:S7:110:ILE:HD12	1.97	0.45
2:T3:245:ASP:N	2:T3:245:ASP:OD1	2.48	0.45
1:T4:219:THR:O	1:T4:219:THR:OG1	2.33	0.45
2:T5:83:TYR:HB3	2:T5:86:LEU:HB3	1.98	0.45
1:T6:32:PRO:HG2	31:7N:70:GLU:HG2	1.98	0.45
1:T6:229:ILE:O	1:T6:233:MET:HG3	2.16	0.45
1:T8:14:ASN:HD22	1:T8:65:LEU:HD23	1.82	0.45
1:T8:26:ASP:OD1	31:7N:6:PRO:HA	2.17	0.45
1:U8:114:ASP:N	1:U8:114:ASP:OD1	2.49	0.45
2:U9:304:LYS:HA	2:U9:304:LYS:HD2	1.86	0.45
2:V1:223:THR:OG1	2:V1:224:TYR:N	2.50	0.45
1:V2:310:TYR:N	1:V2:340:TYR:O	2.31	0.45
2:V3:73:THR:O	2:V3:77:GLU:HG3	2.15	0.45
2:V7:176:GLN:HB3	1:V8:331:LEU:HD11	1.99	0.45
1:V8:34:GLY:HA3	1:V8:58:ARG:NH2	2.32	0.45
1:V8:64:ILE:O	1:V8:64:ILE:HG13	2.17	0.45
2:V9:430:LYS:HA	2:V9:430:LYS:HD3	1.65	0.45
1:W2:414:ASN:HA	1:W2:417:ASP:OD2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W3:21:TRP:CZ2	2:W3:65:CYS:HB2	2.50	0.45
1:W6:383:GLU:HA	1:W6:386:THR:HG22	1.97	0.45
2:W7:167:LEU:HD13	2:W7:200:VAL:HB	1.98	0.45
2:W7:420:GLU:HA	2:W7:423:GLU:HG3	1.99	0.45
1:W8:153:SER:OG	1:W8:195:ASN:OD1	2.33	0.45
1:X0:11:GLN:N	39:X0:502:GDP:O2B	2.39	0.45
1:X2:294:TRP:CG	1:X2:333:VAL:HG21	2.51	0.45
2:X7:182:VAL:HG12	2:X7:185:TYR:HB2	1.98	0.45
2:Y1:184:PRO:O	2:Y1:188:VAL:HG22	2.16	0.45
2:Y5:240:ALA:HB1	2:Y5:356:ASN:HD22	1.82	0.45
2:Y5:279:GLU:HG2	2:Y5:280:LYS:N	2.32	0.45
1:Y8:235:GLY:HA3	1:Y8:366:THR:HG21	1.98	0.45
2:Y9:206:ASN:HA	2:Y9:209:ILE:HG22	1.98	0.45
1:Z0:87:PRO:HA	1:Z0:90:PHE:CD2	2.52	0.45
1:Z2:192:LEU:HD21	1:Z2:199:CYS:SG	2.56	0.45
2:Z3:185:TYR:HE1	2:Z3:398:MET:HG3	1.82	0.45
2:Z3:280:LYS:HA	2:Z3:280:LYS:HE3	1.97	0.45
2:Z5:296:PHE:HE2	2:Z5:335:ILE:HG21	1.81	0.45
1:Z8:58:ARG:HA	1:Z8:58:ARG:HD2	1.81	0.45
2:Z9:157:LEU:HD13	2:Z9:166:LYS:HD3	1.99	0.45
2:Z9:276:ILE:HG23	2:Z9:280:LYS:HB3	1.99	0.45
1:0C:294:TRP:CD1	1:0C:333:VAL:HG21	2.52	0.45
1:0C:327:ASP:OD1	1:0C:328:GLU:N	2.49	0.45
2:0H:407:TRP:CE2	1:0I:255:VAL:HA	2.51	0.45
2:0N:102:ASN:ND2	2:0N:411:GLU:HG3	2.20	0.45
2:0P:69:ASP:OD1	2:0P:70:LEU:N	2.45	0.45
2:0P:76:ASP:OD2	2:0P:79:ARG:HD2	2.16	0.45
1:0Q:23:VAL:HG21	1:0Q:230:SER:HB3	1.98	0.45
1:0S:3:GLU:HG3	1:0S:127:CYS:HB2	1.97	0.45
1:0W:54:ALA:N	1:0W:58:ARG:O	2.50	0.45
2:0X:274:PRO:HB2	2:0X:276:ILE:HG12	1.99	0.45
1:0Y:95:THR:OG1	1:0Y:96:GLY:N	2.50	0.45
1:0Y:361:LEU:HD23	1:0Y:362:LYS:N	2.31	0.45
2:1B:306:ASP:OD2	2:1B:309:HIS:N	2.46	0.45
2:1B:317:LEU:HB3	2:1B:319:TYR:CE1	2.51	0.45
2:1D:75:VAL:HG21	2:1D:94:SER:HB2	1.99	0.45
2:1H:88:HIS:HB3	2:1H:90:GLU:CD	2.36	0.45
2:1H:311:LYS:O	2:1H:313:MET:HE2	2.17	0.45
1:1K:290:THR:HA	1:1K:293:MET:HB3	1.99	0.45
2:1L:76:ASP:OD2	1:1M:46:ARG:NH2	2.50	0.45
1:1M:123:GLU:O	1:1M:126:SER:OG	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1P:285:GLN:HG2	2:1P:286:LEU:N	2.31	0.45
2:1Z:332:VAL:O	2:1Z:336:LYS:HG2	2.17	0.45
2:2F:116:ASP:N	2:2F:116:ASP:OD1	2.50	0.45
2:2F:317:LEU:HB3	2:2F:319:TYR:CE1	2.52	0.45
2:2F:326:LYS:HG3	2:2F:327:ASP:N	2.31	0.45
1:2G:10:GLY:HA2	1:2G:143:THR:HG23	1.98	0.45
2:2H:176:GLN:HE22	2:2H:304:LYS:HD2	1.82	0.45
1:2I:175:VAL:HG22	1:2I:205:GLU:HB2	1.99	0.45
2:2J:66:ILE:O	2:2J:66:ILE:HG13	2.16	0.45
1:2M:309:ARG:H	1:2M:372:THR:HG22	1.80	0.45
2:2N:331:SER:O	2:2N:334:THR:OG1	2.25	0.45
2:2P:56:THR:HB	2:2P:60:LYS:HB3	1.98	0.45
1:2S:95:THR:HG23	1:2S:96:GLY:H	1.82	0.45
2:2X:72:PRO:HD2	1:2Y:2:ARG:NH1	2.31	0.45
2:2X:280:LYS:O	2:2X:280:LYS:HG2	2.16	0.45
1:2Y:5:VAL:HG12	1:2Y:62:ARG:HD3	1.97	0.45
1:3A:34:GLY:O	1:3A:58:ARG:HD3	2.16	0.45
1:3A:77:ARG:HH12	38:8D:220:VAL:HA	1.81	0.45
1:3A:385:PHE:HZ	1:3A:408:PHE:HB3	1.81	0.45
1:3C:317:PHE:HE2	1:3C:326:VAL:HG13	1.81	0.45
2:3D:147:SER:OG	2:3D:148:GLY:N	2.49	0.45
2:3D:417:GLU:HA	2:3D:420:GLU:HG3	1.97	0.45
2:3H:76:ASP:O	2:3H:80:THR:HG23	2.17	0.45
1:3M:260:PHE:HB2	1:3M:263:LEU:HG	1.97	0.45
1:3O:19:LYS:NZ	1:3O:227:HIS:HD2	2.14	0.45
1:3O:77:ARG:HH12	3:4F:18:LYS:HB3	1.80	0.45
2:3P:68:LEU:HD11	2:3P:149:LEU:HD11	1.98	0.45
2:3T:269:LEU:N	2:3T:379:SER:O	2.43	0.45
2:3T:296:PHE:CE2	2:3T:335:ILE:HD13	2.52	0.45
3:3V:173:ARG:O	3:3V:177:VAL:HG23	2.16	0.45
3:3X:173:ARG:O	3:3X:177:VAL:HG23	2.16	0.45
3:4B:173:ARG:O	3:4B:177:VAL:HG23	2.16	0.45
4:4C:117:PHE:HB2	4:4C:118:ILE:HD12	1.97	0.45
10:5B:301:LEU:HA	10:5B:304:GLU:CD	2.37	0.45
12:5G:280:PHE:CD1	12:5G:290:PHE:HB2	2.51	0.45
14:5L:57:ASP:OD1	14:5L:58:LYS:N	2.47	0.45
14:5M:57:ASP:OD1	14:5M:58:LYS:N	2.47	0.45
15:5O:367:LEU:HA	15:5O:370:ASN:HD21	1.81	0.45
17:5V:211:ARG:O	17:5V:215:MET:HG3	2.17	0.45
22:6I:188:ARG:HD3	22:6I:192:LYS:HB2	1.98	0.45
22:6L:48:GLU:HA	22:6L:113:ARG:HE	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:6N:132:SER:HB2	22:6N:209:ASN:HB3	1.98	0.45
24:6T:152:ARG:HD3	24:6T:160:PHE:CG	2.52	0.45
24:6V:473:TYR:OH	24:6V:478:ASP:OD1	2.31	0.45
24:6W:573:VAL:HG23	24:6W:600:ALA:HB1	1.97	0.45
24:6X:519:VAL:HG21	24:6X:610:ILE:HD12	1.97	0.45
24:6X:562:LEU:HD23	24:6X:562:LEU:HA	1.72	0.45
24:6Y:243:LYS:O	24:6Y:247:GLU:HG2	2.16	0.45
24:6Y:512:TYR:CZ	24:6Y:523:ILE:HG13	2.52	0.45
24:6Z:592:ASP:N	24:6Z:592:ASP:OD1	2.47	0.45
38:8B:170:PHE:O	38:8B:170:PHE:CD2	2.70	0.45
1:A1:75:SER:O	24:6Y:149:LYS:NZ	2.50	0.45
1:G2:290:THR:HG1	1:G2:294:TRP:HD1	1.64	0.45
1:G4:385:PHE:HZ	1:G4:408:PHE:HD1	1.64	0.45
2:G5:363:VAL:HG13	2:G5:366:GLY:HA3	1.97	0.45
2:G7:91:GLN:HE22	2:G7:125:LEU:HD11	1.81	0.45
2:G7:229:ARG:HD3	2:G7:363:VAL:HG11	1.99	0.45
2:G9:182:VAL:HG23	2:G9:186:ASN:ND2	2.30	0.45
2:H5:403:ALA:HB2	1:H6:344:TRP:HZ3	1.82	0.45
1:H6:49:VAL:HG11	1:H6:241:ARG:HG2	1.99	0.45
1:H6:276:ARG:CZ	24:6V:490:THR:HA	2.45	0.45
2:H7:271:SER:OG	2:H7:272:TYR:N	2.48	0.45
1:I0:95:THR:OG1	1:I0:96:GLY:N	2.49	0.45
1:I4:167:PHE:CE2	1:I4:233:MET:HG2	2.51	0.45
2:I7:203:MET:C	2:I7:204:LEU:HD12	2.36	0.45
2:I9:156:ARG:HA	2:I9:159:VAL:HG22	1.98	0.45
1:J4:203:ASP:OD1	1:J4:301:CYS:HA	2.16	0.45
1:J4:317:PHE:HB3	1:J4:321:MET:SD	2.56	0.45
2:J5:205:ASP:OD1	2:J5:207:GLU:N	2.46	0.45
2:J5:370:LYS:HD2	5:4M:155:ARG:N	2.31	0.45
1:K0:177:ASP:O	2:K1:352:LYS:HD2	2.17	0.45
1:K0:309:ARG:H	1:K0:372:THR:CG2	2.29	0.45
2:K1:404:PHE:HE2	2:K1:407:TRP:CE3	2.34	0.45
2:K3:370:LYS:HD2	6:4O:147:GLU:OE1	2.17	0.45
1:K4:6:HIS:CE1	1:K4:8:GLN:HG2	2.51	0.45
1:K4:178:THR:CG2	1:K4:181:GLU:HG3	2.47	0.45
2:K5:14:ILE:HD11	2:K5:74:VAL:HG13	1.99	0.45
2:K9:394:LYS:HB2	1:L0:346:PRO:HG3	1.98	0.45
1:L4:36:TYR:C	29:7J:335:GLU:OE2	2.53	0.45
1:L4:175:VAL:HG22	2:L5:329:ASN:ND2	2.31	0.45
1:L6:2:ARG:HB3	1:L6:131:GLN:HB2	1.99	0.45
1:L6:362:LYS:HA	6:4P:169:PHE:HZ	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L9:75:VAL:HG21	2:L9:94:SER:HB2	1.99	0.45
2:L9:100:ALA:HA	1:M0:252:LYS:HE3	1.99	0.45
1:M2:335:ASN:O	1:M2:338:SER:OG	2.33	0.45
2:M3:222:PRO:HD2	1:M4:324:LYS:HE3	1.99	0.45
2:M5:312:TYR:HB2	2:M5:343:PHE:CD1	2.52	0.45
1:M8:316:LEU:HD13	1:M8:352:SER:HB3	1.98	0.45
2:M9:175:PRO:HB3	2:M9:390:ARG:NE	2.32	0.45
2:M9:330:ALA:O	2:M9:334:THR:HG23	2.17	0.45
2:N1:49:PHE:HB2	2:N1:53:PHE:HD2	1.81	0.45
2:N1:66:ILE:HG13	2:N1:66:ILE:O	2.17	0.45
2:N1:389:SER:N	2:N1:429:GLU:OE2	2.49	0.45
1:N6:108:GLU:HA	1:N6:111:GLU:OE1	2.16	0.45
2:N9:183:GLU:CD	2:N9:184:PRO:HD3	2.36	0.45
1:O0:134:GLN:HE21	1:O0:167:PHE:HE2	1.65	0.45
2:O3:221:ARG:NE	37:7Y:70:THR:OG1	2.50	0.45
1:O4:101:TRP:HB2	1:O4:184:ASN:OD1	2.16	0.45
1:P4:217:LEU:O	27:7G:171:LYS:NZ	2.48	0.45
2:P5:8:HIS:CD2	2:P5:138:PHE:HD2	2.35	0.45
2:P5:51:THR:HG21	2:P5:243:ARG:HG2	1.98	0.45
2:P5:176:GLN:HG2	2:P5:177:VAL:N	2.32	0.45
1:P8:167:PHE:CE2	1:P8:233:MET:HG2	2.51	0.45
2:Q1:269:LEU:HD13	2:Q1:301:MET:HE3	1.98	0.45
2:Q1:327:ASP:OD1	2:Q1:328:VAL:N	2.50	0.45
2:Q5:336:LYS:O	2:Q5:339:ARG:NH2	2.46	0.45
2:Q9:27:GLU:HG3	2:Q9:361:THR:HG21	1.99	0.45
1:S2:219:THR:O	1:S2:219:THR:OG1	2.32	0.45
1:S4:150:LEU:HD11	3:3V:76:PRO:HG3	1.98	0.45
1:S6:60:VAL:HG21	1:S6:86:ARG:HH21	1.81	0.45
1:S6:100:ASN:HB3	1:S6:103:LYS:HB2	1.99	0.45
1:S8:35:THR:HA	1:S8:57:GLY:O	2.16	0.45
1:S8:110:ALA:HB1	3:3Z:75:ARG:NE	2.32	0.45
2:S9:105:ARG:HB2	2:S9:411:GLU:CG	2.47	0.45
1:T0:170:VAL:HG21	1:T0:377:MET:SD	2.56	0.45
2:T3:183:GLU:CD	2:T3:184:PRO:HD3	2.37	0.45
1:T6:1:MET:CE	26:7F:67:GLN:HE21	2.29	0.45
1:T6:77:ARG:HH22	24:7A:46:ALA:HB1	1.80	0.45
2:T7:88:HIS:HD2	2:T7:89:PRO:CD	2.17	0.45
2:V1:116:ASP:OD1	2:V1:117:LEU:N	2.49	0.45
1:V6:2:ARG:NH2	1:V6:249:ASP:HB3	2.32	0.45
1:V6:328:GLU:OE1	1:V6:332:ASN:ND2	2.49	0.45
1:W0:101:TRP:CE3	1:W0:403:MET:HE1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W2:263:LEU:HD23	1:W2:422:TYR:HE1	1.80	0.45
1:W4:5:VAL:HG23	1:W4:62:ARG:HG2	1.99	0.45
1:W4:101:TRP:HE3	1:W4:403:MET:HE1	1.81	0.45
2:W7:187:SER:O	2:W7:191:THR:HG23	2.16	0.45
1:W8:3:GLU:HG3	1:W8:127:CYS:SG	2.57	0.45
2:W9:33:ASP:OD2	2:W9:35:GLN:NE2	2.44	0.45
1:X2:397:TRP:HE1	2:X3:260:VAL:HB	1.81	0.45
1:X4:148:GLY:O	1:X4:152:ILE:HG12	2.16	0.45
1:X4:164:MET:SD	1:X4:196:ALA:HA	2.56	0.45
2:X7:33:ASP:OD2	2:X7:35:GLN:NE2	2.44	0.45
2:X7:72:PRO:HD2	1:X8:2:ARG:HH12	1.82	0.45
1:Y0:21:TRP:CZ3	1:Y0:61:PRO:HB3	2.52	0.45
2:Y1:245:ASP:OD1	2:Y1:245:ASP:N	2.37	0.45
1:Y2:154:LYS:HD2	1:Y2:154:LYS:N	2.31	0.45
2:Y3:21:TRP:CZ3	2:Y3:63:PRO:HB3	2.52	0.45
1:Y8:183:TYR:HB3	1:Y8:398:TYR:HE2	1.82	0.45
1:Z2:62:ARG:HG2	1:Z2:123:GLU:OE2	2.17	0.45
1:Z2:115:SER:HA	1:Z2:118:ASP:OD2	2.16	0.45
1:Z4:409:THR:HA	1:Z4:412:GLU:OE1	2.16	0.45
2:Z5:166:LYS:N	2:Z5:199:ASP:OD2	2.50	0.45
2:Z7:292:THR:HG1	2:Z7:319:TYR:HH	1.63	0.45
2:Z9:176:GLN:HG2	2:Z9:177:VAL:N	2.32	0.45
1:0A:274:THR:OG1	1:0A:278:SER:OG	2.34	0.45
2:0B:344:VAL:HG22	2:0B:346:TRP:H	1.81	0.45
1:0C:68:LEU:HD21	1:0C:108:GLU:HG2	1.99	0.45
1:0C:134:GLN:HE21	1:0C:167:PHE:HZ	1.64	0.45
2:0F:306:ASP:HB3	2:0F:309:HIS:HD2	1.80	0.45
2:0H:147:SER:OG	2:0H:148:GLY:N	2.50	0.45
2:0H:320:ARG:O	2:0H:373:ARG:HA	2.17	0.45
1:0I:204:ASN:HD22	1:0I:207:LEU:HD12	1.82	0.45
1:0K:39:ASP:OD1	1:0K:39:ASP:N	2.48	0.45
1:0K:117:LEU:O	1:0K:121:ARG:HB2	2.17	0.45
1:0K:204:ASN:ND2	39:0K:502:GDP:HN22	2.15	0.45
1:0Q:404:ASP:HB3	1:0Q:406:MET:SD	2.57	0.45
1:0U:314:SER:HA	1:0U:350:LYS:O	2.16	0.45
1:0W:6:HIS:HE1	1:0W:8:GLN:HG2	1.80	0.45
1:0W:272:PRO:O	1:0W:273:LEU:HD23	2.16	0.45
2:0X:56:THR:HG23	2:1N:285:GLN:CB	2.46	0.45
1:0Y:309:ARG:H	1:0Y:372:THR:HG22	1.82	0.45
1:1C:35:THR:HA	1:1C:57:GLY:O	2.17	0.45
2:1D:427:ALA:HA	2:1D:430:LYS:HE2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:219:THR:O	1:1G:219:THR:OG1	2.35	0.45
1:1M:286:VAL:HG12	1:1M:321:MET:HE3	1.98	0.45
1:1O:248:ALA:HA	1:1O:252:LYS:CD	2.39	0.45
2:1P:69:ASP:OD1	2:1P:70:LEU:N	2.47	0.45
1:1S:135:VAL:O	1:1S:166:THR:HA	2.16	0.45
2:1T:246:GLY:N	2:1T:249:ASN:HD21	2.12	0.45
1:1U:12:CYS:O	1:1U:16:ILE:HG23	2.17	0.45
1:1W:86:ARG:HB3	1:1W:89:ASN:ND2	2.31	0.45
2:1Z:250:VAL:HG23	2:1Z:254:GLU:CD	2.37	0.45
1:2C:404:ASP:HB3	1:2C:406:MET:SD	2.57	0.45
2:2F:130:THR:O	38:8B:116:GLN:NE2	2.49	0.45
1:2G:404:ASP:OD1	1:2G:405:GLU:N	2.41	0.45
1:2I:167:PHE:CE2	1:2I:233:MET:HG2	2.51	0.45
2:2N:47:ASP:N	2:2N:47:ASP:OD1	2.50	0.45
1:2Q:5:VAL:HG12	1:2Q:133:PHE:HD1	1.80	0.45
1:2S:113:ILE:HG13	1:2S:114:ASP:N	2.32	0.45
2:2T:286:LEU:HA	2:2T:286:LEU:HD13	1.81	0.45
2:2X:122:ILE:HG22	2:2X:125:LEU:HD12	1.98	0.45
1:2Y:293:MET:HE1	1:2Y:317:PHE:HE1	1.82	0.45
2:3D:199:ASP:OD2	2:3D:256:GLN:HG2	2.17	0.45
2:3D:413:MET:HB3	2:3D:417:GLU:OE2	2.17	0.45
2:3H:174:SER:HB3	2:3H:177:VAL:O	2.17	0.45
2:3J:199:ASP:OD1	2:3J:200:VAL:N	2.50	0.45
2:3J:276:ILE:HD12	2:3J:280:LYS:HB3	1.98	0.45
2:3L:220:GLU:HG2	2:3L:221:ARG:HG3	1.98	0.45
1:3M:391:ARG:HD2	2:3N:346:TRP:CB	2.27	0.45
1:3M:391:ARG:NH1	2:3N:346:TRP:HE3	2.13	0.45
2:3P:210:TYR:HH	1:3Q:323:THR:HG1	1.56	0.45
2:3R:288:VAL:HG11	2:3R:327:ASP:HB2	1.97	0.45
2:3R:346:TRP:CZ3	2:3R:347:CYS:HB2	2.52	0.45
1:3S:139:LEU:HD12	1:3S:170:VAL:HG12	1.99	0.45
1:3S:183:TYR:O	1:3S:187:LEU:HD13	2.17	0.45
3:4J:192:LEU:O	3:4J:195:ILE:HG22	2.17	0.45
8:4W:466:ARG:HD3	8:4W:466:ARG:C	2.37	0.45
9:4Z:259:ASP:OD2	9:4Z:263:ARG:NH2	2.50	0.45
12:5F:382:GLN:HG2	12:5F:383:ARG:CD	2.46	0.45
14:5L:383:LEU:HD21	14:5L:403:ASP:HB3	1.99	0.45
14:5M:331:LYS:HE2	14:5M:331:LYS:HB2	1.76	0.45
14:5M:383:LEU:HD21	14:5M:403:ASP:HB3	1.99	0.45
14:5N:383:LEU:HD21	14:5N:403:ASP:HB3	1.99	0.45
15:5O:168:ALA:O	15:5O:171:LYS:HG3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:5Q:91:ASP:OD2	16:5Q:94:ARG:NH1	2.49	0.45
18:6B:29:ILE:HD12	18:6B:87:LEU:HD21	1.99	0.45
20:6F:90:ALA:HB1	20:6F:98:THR:O	2.16	0.45
22:6L:203:HIS:CD2	22:6L:204:PHE:H	2.35	0.45
22:6L:240:TYR:O	22:6L:244:VAL:HG22	2.17	0.45
24:6V:214:ARG:HG2	24:6V:219:MET:SD	2.56	0.45
24:6W:472:SER:HB2	24:6W:481:LEU:CD2	2.46	0.45
24:6Y:505:LYS:HB3	24:6Y:506:PRO:HD2	1.98	0.45
28:7H:430:MET:HA	28:7H:430:MET:CE	2.47	0.45
29:7I:264:ARG:NH1	30:7K:362:GLN:HG3	2.31	0.45
30:7K:44:GLU:O	30:7K:45:ARG:HG2	2.16	0.45
35:7U:183:LYS:HB2	35:7U:183:LYS:HE3	1.79	0.45
28:7X:430:MET:HA	28:7X:430:MET:CE	2.47	0.45
38:8C:92:GLU:OE2	38:8C:94:LYS:CE	2.64	0.45
38:8D:63:VAL:HA	38:8D:66:TYR:HD2	1.81	0.45
2:A4:40:LYS:HB3	24:6Z:187:PHE:HB2	1.97	0.45
1:B3:79:GLY:HA3	24:6W:221:ARG:HH22	1.81	0.45
1:B5:80:PRO:HD2	24:6X:221:ARG:HH12	1.82	0.45
2:B7:79:ARG:CZ	18:6B:165:ASP:HB3	2.47	0.45
2:E3:364:PRO:HG2	22:6K:123:PRO:HB2	1.97	0.45
1:E8:32:PRO:HG3	24:6X:402:LYS:HG3	1.99	0.45
1:F2:276:ARG:HH12	22:6O:65:ARG:HH21	1.62	0.45
2:F7:278:ALA:HB3	22:6J:215:GLY:HA2	1.99	0.45
1:G2:8:GLN:OE1	1:G2:17:GLY:HA3	2.16	0.45
2:G3:14:ILE:HD11	2:G3:74:VAL:HG13	1.97	0.45
2:G3:205:ASP:HB3	2:G3:303:VAL:HA	1.98	0.45
1:G4:175:VAL:O	1:G4:175:VAL:HG13	2.17	0.45
1:G8:212:PHE:O	1:G8:216:LYS:HA	2.17	0.45
2:G9:119:LEU:HD11	2:G9:156:ARG:HB3	1.99	0.45
2:H1:254:GLU:O	2:H1:258:ASN:ND2	2.50	0.45
1:H2:387:ALA:HA	1:H2:390:ARG:NE	2.32	0.45
1:H4:95:THR:OG1	1:H4:96:GLY:N	2.49	0.45
2:H5:101:ASN:ND2	2:H5:143:GLY:HA2	2.31	0.45
1:H8:113:ILE:HA	1:H8:116:VAL:HG12	1.98	0.45
2:I1:121:ARG:NH1	2:I1:121:ARG:CG	2.60	0.45
1:I4:177:ASP:OD1	2:I5:248:LEU:HD21	2.17	0.45
1:I4:237:THR:HG23	1:I4:240:LEU:HD12	1.98	0.45
2:I5:266:HIS:ND1	2:I5:266:HIS:O	2.49	0.45
2:I9:57:GLY:H	2:K5:285:GLN:HB2	1.82	0.45
2:J5:21:TRP:CZ2	2:J5:65:CYS:HB2	2.51	0.45
2:J7:116:ASP:N	2:J7:116:ASP:OD1	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J7:174:SER:HB3	2:J7:177:VAL:O	2.15	0.45
2:K7:72:PRO:HD2	1:K8:2:ARG:NH1	2.31	0.45
1:K8:236:ILE:HD12	1:K8:316:LEU:HD11	1.98	0.45
2:K9:217:LEU:HD23	2:K9:217:LEU:HA	1.82	0.45
2:L1:215:ARG:HE	29:7J:471:HIS:HE1	1.65	0.45
2:L3:344:VAL:HG13	2:L3:346:TRP:H	1.82	0.45
2:L3:384:ILE:HA	2:L3:387:ILE:HD12	1.97	0.45
1:M0:285:THR:OG1	1:M0:287:PRO:HD2	2.16	0.45
2:M3:384:ILE:HA	2:M3:387:ILE:HD12	1.99	0.45
1:M6:5:VAL:HG12	1:M6:133:PHE:CD1	2.51	0.45
2:M7:11:GLN:NE2	1:M8:247:ASN:OD1	2.50	0.45
2:M7:30:ILE:HD12	2:M7:53:PHE:CE2	2.52	0.45
2:M9:431:ASP:O	2:M9:435:VAL:HG23	2.17	0.45
1:N0:297:LYS:HA	1:N0:297:LYS:HD3	1.80	0.45
1:N2:60:VAL:CG1	1:N2:86:ARG:HE	2.29	0.45
1:N2:189:VAL:HA	1:N2:192:LEU:HB2	1.99	0.45
2:N7:66:ILE:O	2:N7:66:ILE:HG13	2.16	0.45
2:N7:114:ILE:HG21	2:N7:149:LEU:HD22	1.99	0.45
2:N9:119:LEU:CD2	2:N9:122:ILE:HD11	2.36	0.45
1:O0:174:LYS:HB3	1:O0:174:LYS:HE2	1.76	0.45
1:O0:250:LEU:HA	1:O0:253:LEU:HD12	1.99	0.45
1:O2:203:ASP:N	1:O2:203:ASP:OD1	2.50	0.45
1:O6:67:ASP:N	1:O6:67:ASP:OD1	2.49	0.45
1:O6:233:MET:O	1:O6:236:ILE:HG22	2.17	0.45
2:O7:70:LEU:HG	2:O7:145:THR:HG23	1.98	0.45
2:O7:177:VAL:HG13	1:O8:327:ASP:HB3	1.99	0.45
2:O7:434:GLU:C	2:O7:434:GLU:CD	2.75	0.45
2:P3:417:GLU:HA	2:P3:420:GLU:HG2	1.98	0.45
2:P5:174:SER:HA	2:P5:205:ASP:OD2	2.17	0.45
2:Q3:279:GLU:OE2	2:Q3:280:LYS:HG3	2.17	0.45
1:Q4:217:LEU:CA	20:6F:184:ARG:HH12	2.29	0.45
2:Q5:69:ASP:OD1	2:Q5:70:LEU:N	2.49	0.45
2:Q5:320:ARG:HB3	2:Q5:358:GLN:O	2.16	0.45
2:Q9:216:SER:OG	2:Q9:217:LEU:N	2.48	0.45
1:R0:301:CYS:SG	1:R0:302:ALA:N	2.90	0.45
1:R0:363:MET:O	7:4Q:352:ASN:ND2	2.46	0.45
1:R0:391:ARG:O	1:R0:392:LYS:C	2.55	0.45
1:R2:311:LEU:HD23	1:R2:311:LEU:HA	1.78	0.45
2:R7:72:PRO:HD2	1:R8:2:ARG:HH12	1.82	0.45
2:R7:203:MET:HB2	2:R7:303:VAL:HG21	1.99	0.45
1:R8:425:TYR:OH	17:5U:108:ASN:ND2	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R9:57:GLY:H	2:T5:285:GLN:CB	2.29	0.45
2:R9:359:PRO:HD2	12:5F:118:ARG:NH2	2.32	0.45
1:S6:122:LYS:HA	3:3X:65:SER:OG	2.16	0.45
1:S8:68:LEU:HD12	1:S8:97:ALA:HB2	1.99	0.45
2:S9:306:ASP:HB3	2:S9:309:HIS:CD2	2.50	0.45
1:T0:4:ILE:HB	1:T0:50:TYR:HE2	1.81	0.45
1:T0:65:LEU:HD12	1:T0:90:PHE:HE1	1.77	0.45
1:T0:418:LEU:O	1:T0:421:GLU:HG2	2.17	0.45
2:T1:15:GLN:HB3	2:T1:228:ASN:ND2	2.32	0.45
1:T6:19:LYS:HG3	1:T6:227:HIS:CE1	2.52	0.45
2:T7:65:CYS:SG	2:T7:87:PHE:HE1	2.39	0.45
2:U1:4:VAL:HG23	2:U1:134:GLY:O	2.17	0.45
2:U1:280:LYS:HA	2:U1:283:HIS:CD2	2.52	0.45
2:U7:301:MET:HE1	2:U7:307:PRO:HD3	1.99	0.45
2:V1:429:GLU:OE2	2:V1:429:GLU:HA	2.16	0.45
1:V6:173:PRO:HD3	1:V6:380:ARG:HD3	1.97	0.45
1:V6:260:PHE:CD2	1:V6:263:LEU:HD23	2.52	0.45
1:V6:268:VAL:HG23	1:V6:368:ILE:HG13	1.99	0.45
2:V7:311:LYS:NZ	2:V7:343:PHE:O	2.39	0.45
1:V8:240:LEU:HD21	1:V8:249:ASP:HA	1.98	0.45
2:V9:333:ALA:O	2:V9:337:THR:HG23	2.17	0.45
2:W1:234:VAL:O	2:W1:237:SER:OG	2.31	0.45
1:W4:72:THR:O	1:W4:76:VAL:HG23	2.17	0.45
1:W6:190:HIS:NE2	1:W6:414:ASN:OD1	2.49	0.45
2:W7:34:GLY:O	2:W7:60:LYS:HA	2.16	0.45
2:W7:47:ASP:OD1	2:W7:48:ALA:N	2.50	0.45
1:W8:30:ILE:HG22	1:W8:36:TYR:HA	1.98	0.45
2:W9:12:ALA:O	2:W9:16:VAL:HG23	2.17	0.45
2:W9:16:VAL:HA	2:W9:228:ASN:HB3	1.99	0.45
2:W9:298:PRO:HA	2:W9:301:MET:HG3	1.98	0.45
1:X2:175:VAL:HG13	2:X3:329:ASN:ND2	2.32	0.45
1:X6:233:MET:O	1:X6:237:THR:HG22	2.16	0.45
1:X8:396:HIS:HE1	1:X8:397:TRP:CE2	2.35	0.45
2:X9:333:ALA:O	2:X9:337:THR:HG23	2.17	0.45
1:Y8:230:SER:HA	1:Y8:233:MET:HG2	1.98	0.45
2:Z1:286:LEU:HG	2:Z1:373:ARG:NH1	2.31	0.45
2:Z3:7:ILE:HD11	2:Z3:137:VAL:HG12	1.97	0.45
1:Z4:163:MET:HE2	1:Z4:251:ARG:HA	1.98	0.45
1:Z4:181:GLU:HG3	1:Z4:182:PRO:HD3	1.97	0.45
2:Z5:31:GLN:HB2	2:Z5:33:ASP:OD1	2.16	0.45
1:Z6:337:ASN:HB2	1:Z6:340:TYR:HD2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z8:114:ASP:OD1	1:Z8:114:ASP:N	2.48	0.45
1:Z8:177:ASP:OD2	2:Z9:248:LEU:HD21	2.17	0.45
1:0A:316:LEU:HD23	1:0A:317:PHE:N	2.31	0.45
2:0F:383:ALA:O	2:0F:387:ILE:HG12	2.16	0.45
1:0G:237:THR:HG23	1:0G:241:ARG:HE	1.81	0.45
1:0I:101:TRP:CZ3	1:0I:187:LEU:HD23	2.52	0.45
1:0I:107:THR:OG1	1:0I:401:GLU:OE2	2.27	0.45
2:0J:109:THR:OG1	2:0J:411:GLU:OE2	2.25	0.45
1:0K:3:GLU:HG3	1:0K:127:CYS:SG	2.56	0.45
1:0K:387:ALA:C	1:0K:388:MET:HE1	2.36	0.45
2:0N:269:LEU:HD21	2:0N:301:MET:SD	2.57	0.45
1:0O:52:ASN:OD1	1:0O:62:ARG:NH2	2.50	0.45
2:0P:403:ALA:HB2	1:0Q:344:TRP:HZ3	1.81	0.45
1:0Q:165:LEU:HD13	1:0Q:167:PHE:HZ	1.81	0.45
2:0R:191:THR:HA	2:0R:194:LEU:HB3	1.99	0.45
1:0U:198:GLU:HA	1:0U:264:HIS:HB2	1.99	0.45
2:0Z:119:LEU:HD11	2:0Z:156:ARG:HD3	1.98	0.45
2:0Z:155:GLU:HB2	2:0Z:197:HIS:CE1	2.52	0.45
1:1A:8:GLN:OE1	1:1A:17:GLY:HA3	2.16	0.45
2:1B:227:LEU:O	2:1B:231:ILE:HG13	2.17	0.45
1:1C:173:PRO:HB3	1:1C:384:GLN:HE22	1.82	0.45
2:1H:155:GLU:HG2	2:1H:197:HIS:NE2	2.31	0.45
2:1L:246:GLY:H	2:1L:249:ASN:ND2	2.15	0.45
2:1X:50:ASN:O	2:1X:64:ARG:NH2	2.50	0.45
2:1Z:2:ARG:HD2	2:1Z:242:LEU:HD22	1.99	0.45
1:2A:27:GLU:HA	1:2A:359:LYS:HD3	1.98	0.45
2:2B:187:SER:O	2:2B:191:THR:HG23	2.16	0.45
2:2B:244:PHE:HB2	2:2B:356:ASN:HD21	1.80	0.45
1:2C:86:ARG:HG2	1:2C:88:ASP:H	1.80	0.45
2:2F:306:ASP:HB3	2:2F:309:HIS:HD2	1.81	0.45
1:2G:418:LEU:O	1:2G:421:GLU:HG2	2.17	0.45
1:2I:203:ASP:OD1	1:2I:301:CYS:HA	2.17	0.45
2:2J:68:LEU:HA	2:2J:93:ILE:O	2.17	0.45
2:2L:394:LYS:HB2	1:2M:346:PRO:HG3	1.98	0.45
1:2M:113:ILE:HA	1:2M:116:VAL:HG22	1.98	0.45
1:2Q:320:ARG:CZ	38:8A:201:LEU:HD12	2.46	0.45
1:2Q:340:TYR:CE2	38:8A:96:GLY:HA2	2.52	0.45
2:2R:56:THR:HA	2:3H:285:GLN:HB3	1.98	0.45
2:2R:187:SER:O	2:2R:191:THR:HG23	2.17	0.45
1:3A:212:PHE:CZ	2:3B:326:LYS:HE3	2.52	0.45
1:3A:282:ARG:NH1	1:3A:292:GLN:OE1	2.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3A:317:PHE:HE2	1:3A:326:VAL:HG13	1.81	0.45
2:3B:370:LYS:HD2	10:5D:162:ILE:HG21	1.97	0.45
1:3C:35:THR:HG21	38:8D:161:GLN:NE2	2.23	0.45
2:3D:139:ASN:OD1	2:3D:139:ASN:N	2.50	0.45
2:3D:362:VAL:HG21	10:5D:220:GLN:NE2	2.32	0.45
1:3I:70:PRO:HB2	3:3Z:14:TYR:OH	2.16	0.45
1:3I:199:CYS:SG	1:3I:265:PHE:HD1	2.40	0.45
1:3I:317:PHE:HE2	1:3I:326:VAL:HG13	1.81	0.45
1:3I:386:THR:O	1:3I:390:ARG:HG3	2.16	0.45
1:3M:246:LEU:O	1:3M:352:SER:OG	2.25	0.45
1:3O:3:GLU:HG3	1:3O:127:CYS:HB2	1.98	0.45
1:3O:170:VAL:HG22	1:3O:202:LEU:O	2.17	0.45
1:3Q:273:LEU:H	1:3Q:292:GLN:HE22	1.63	0.45
2:3R:7:ILE:HG12	2:3R:137:VAL:HG12	1.99	0.45
2:3R:66:ILE:HD12	2:3R:68:LEU:HD23	1.98	0.45
2:3R:188:VAL:HG21	2:3R:395:PHE:CE1	2.52	0.45
1:3S:49:VAL:O	1:3S:62:ARG:NH1	2.50	0.45
1:3S:181:GLU:HB2	1:3S:182:PRO:CD	2.46	0.45
1:3S:268:VAL:HG23	1:3S:300:MET:HB2	1.97	0.45
2:3T:90:GLU:HB3	2:3T:121:ARG:HH22	1.82	0.45
4:3Y:150:GLU:OE1	4:3Y:150:GLU:HA	2.17	0.45
4:4A:150:GLU:OE1	4:4A:150:GLU:HA	2.17	0.45
4:4C:150:GLU:OE1	4:4C:150:GLU:HA	2.17	0.45
3:4F:173:ARG:O	3:4F:177:VAL:HG23	2.16	0.45
5:4L:290:GLN:HB3	28:7H:306:LEU:CD2	2.46	0.45
5:4L:323:LEU:HA	5:4L:326:GLU:OE1	2.17	0.45
5:4M:282:ARG:HE	5:4M:282:ARG:HB2	1.46	0.45
7:4R:92:GLN:N	7:4R:92:GLN:OE1	2.50	0.45
7:4U:57:ARG:HD2	12:5F:167:PRO:HB3	1.98	0.45
14:5M:18:GLU:OE2	14:5M:18:GLU:N	2.50	0.45
14:5N:18:GLU:N	14:5N:18:GLU:OE2	2.50	0.45
15:5O:23:LYS:HB2	15:5O:40:ILE:HD12	1.97	0.45
15:5P:268:GLY:HA2	15:5P:308:ALA:O	2.17	0.45
15:5P:321:GLU:HB2	15:5P:322:PRO:HD3	1.97	0.45
18:5X:29:ILE:HD12	18:5X:87:LEU:HD21	1.99	0.45
18:5Y:29:ILE:HD12	18:5Y:87:LEU:HD21	1.99	0.45
18:6A:29:ILE:HD12	18:6A:87:LEU:HD21	1.99	0.45
18:6A:60:PRO:HA	18:6A:63:LEU:HD12	1.98	0.45
18:6C:29:ILE:HD12	18:6C:87:LEU:HD21	1.99	0.45
18:6C:60:PRO:HA	18:6C:63:LEU:HD12	1.98	0.45
18:6D:29:ILE:HD12	18:6D:87:LEU:HD21	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:6F:354:LEU:O	20:6F:357:VAL:HG12	2.16	0.45
22:6K:132:SER:OG	22:6K:212:GLU:OE1	2.28	0.45
22:6M:348:ALA:HA	22:6M:351:ASN:ND2	2.32	0.45
24:6U:305:VAL:O	24:6U:321:PHE:HB3	2.17	0.45
24:6U:613:LYS:HD2	24:6U:613:LYS:HA	1.85	0.45
24:6V:171:THR:HG22	24:6V:180:TYR:HD1	1.81	0.45
24:6V:404:ARG:HD2	24:6V:404:ARG:HA	1.86	0.45
24:6W:280:ASP:HA	24:6W:289:ARG:HB2	1.98	0.45
24:6W:451:LYS:HD2	24:6W:468:ARG:CZ	2.46	0.45
24:6X:282:ARG:NH1	24:6X:289:ARG:HD3	2.32	0.45
24:6Y:506:PRO:HB3	24:6Y:524:GLU:OE1	2.16	0.45
24:6Z:262:LEU:O	24:6Z:266:LEU:HG	2.17	0.45
24:6Z:606:ARG:O	24:6Z:610:ILE:HG12	2.17	0.45
29:7I:254:MET:HE2	30:7K:341:ARG:NE	2.31	0.45
38:8C:83:ARG:NH2	38:8C:85:ARG:CD	2.67	0.45
2:4:280:LYS:NZ	26:7D:64:PRO:CB	2.80	0.45
1:7:141:GLY:HA3	39:7:502:GDP:O3A	2.16	0.45
1:7:337:ASN:HD21	3:4B:69:TYR:N	2.08	0.45
1:9:42:LEU:HD21	26:7E:121:LYS:CE	2.32	0.45
1:9:436:PHE:CE1	3:4D:252:LYS:HB2	2.51	0.45
1:E6:37:HIS:CE1	22:6L:259:TYR:HE1	2.35	0.45
2:G1:189:LEU:HD11	2:G1:418:PHE:HE1	1.79	0.45
2:G1:414:GLU:HG2	2:G1:417:GLU:OE1	2.17	0.45
1:G2:388:MET:HE3	2:G3:348:PRO:HD2	1.98	0.45
2:G3:223:THR:OG1	2:G3:224:TYR:N	2.50	0.45
2:G3:277:SER:O	2:G3:281:ALA:HB2	2.16	0.45
1:G4:293:MET:HE1	1:G4:317:PHE:HE1	1.81	0.45
1:G6:49:VAL:HG11	1:G6:241:ARG:HG2	1.98	0.45
2:G7:259:LEU:HD11	2:G7:316:CYS:HB2	1.99	0.45
2:H3:47:ASP:OD1	2:H3:48:ALA:N	2.50	0.45
2:H3:223:THR:OG1	2:H3:224:TYR:N	2.50	0.45
1:I2:6:HIS:CE1	1:I2:8:GLN:HG2	2.52	0.45
1:I2:177:ASP:O	2:I3:352:LYS:HA	2.17	0.45
1:I4:180:VAL:HG23	1:I4:184:ASN:HD21	1.81	0.45
2:I5:50:ASN:O	2:I5:64:ARG:NH2	2.50	0.45
2:I9:121:ARG:C	2:I9:121:ARG:CD	2.85	0.45
2:J1:143:GLY:O	2:J1:147:SER:OG	2.20	0.45
1:J4:395:LEU:O	1:J4:399:THR:HG23	2.17	0.45
1:J6:233:MET:O	1:J6:236:ILE:HG22	2.16	0.45
2:K1:387:ILE:O	2:K1:391:LEU:HG	2.17	0.45
2:K3:52:PHE:CE2	2:K3:243:ARG:HD3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K3:191:THR:HA	2:K3:194:LEU:HB3	1.98	0.45
2:K5:430:LYS:O	2:K5:434:GLU:HG2	2.17	0.45
2:L1:116:ASP:OD1	2:L1:156:ARG:NH1	2.50	0.45
1:L2:143:THR:O	1:L2:147:MET:HB3	2.17	0.45
1:L4:161:ASP:HB3	1:L4:162:ARG:HH11	1.80	0.45
1:L4:174:LYS:HG3	1:L4:380:ARG:NH2	2.32	0.45
2:L7:325:PRO:HA	2:L7:328:VAL:HG22	1.99	0.45
2:L9:9:ILE:HD13	2:L9:150:GLY:HA2	1.99	0.45
2:M1:22:GLU:O	2:M1:26:LEU:HD23	2.17	0.45
2:M1:204:LEU:HD23	2:M1:302:MET:HB3	1.99	0.45
2:M3:27:GLU:HG2	2:M3:361:THR:OG1	2.16	0.45
2:M3:88:HIS:CE1	1:O0:280:GLN:HB2	2.51	0.45
2:M3:291:ILE:HA	2:M3:294:ALA:HB3	1.99	0.45
2:M5:121:ARG:O	2:M5:124:LYS:HG2	2.17	0.45
1:N0:100:ASN:HB3	1:N0:103:LYS:HB2	1.98	0.45
1:N0:321:MET:HG2	1:N0:363:MET:SD	2.57	0.45
2:N1:231:ILE:O	2:N1:235:ILE:HG12	2.17	0.45
2:N3:154:LEU:HG	2:N3:197:HIS:HB3	1.98	0.45
1:N6:320:ARG:HH22	32:7O:67:ARG:HD3	1.81	0.45
1:O0:62:ARG:HG3	1:O0:123:GLU:CD	2.36	0.45
1:O2:274:THR:HG21	1:O2:282:ARG:HD2	1.98	0.45
2:O3:52:PHE:CE2	2:O3:243:ARG:HD3	2.51	0.45
2:O3:163:LYS:N	2:O3:163:LYS:HD2	2.31	0.45
1:O6:350:LYS:NZ	1:O6:351:SER:O	2.30	0.45
2:O7:167:LEU:HD13	2:O7:200:VAL:HB	1.99	0.45
2:P5:90:GLU:HB2	2:P5:121:ARG:NH2	2.29	0.45
1:P6:354:CYS:SG	1:P6:355:ASP:N	2.90	0.45
1:P8:4:ILE:HB	1:P8:50:TYR:CE1	2.51	0.45
1:P8:311:LEU:HA	1:P8:311:LEU:HD12	1.81	0.45
1:Q6:361:LEU:HD23	1:Q6:361:LEU:HA	1.83	0.45
1:R0:386:THR:O	1:R0:390:ARG:HG3	2.17	0.45
1:R2:111:GLU:N	1:R2:111:GLU:OE1	2.50	0.45
1:R4:263:LEU:HG	1:R4:422:TYR:CZ	2.52	0.45
2:R7:394:LYS:HB2	1:R8:346:PRO:HG3	1.99	0.45
1:R8:221:THR:HG21	7:4R:264:LYS:HG2	1.98	0.45
1:S4:392:LYS:HE2	13:5H:53:PHE:CD2	2.52	0.45
1:S4:404:ASP:HB3	1:S4:406:MET:SD	2.57	0.45
1:S8:117:LEU:HA	1:S8:117:LEU:HD23	1.81	0.45
2:S9:90:GLU:O	2:S9:121:ARG:NH1	2.49	0.45
1:T2:117:LEU:HD23	1:T2:117:LEU:HA	1.78	0.45
2:T5:393:HIS:NE2	17:5U:30:LYS:HG2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T6:161:ASP:HB3	1:T6:162:ARG:HH11	1.82	0.45
1:T6:248:ALA:HA	1:T6:252:LYS:HD2	1.98	0.45
1:T6:407:GLU:OE2	3:4H:81:PHE:HB3	2.16	0.45
2:U5:47:ASP:N	2:U5:47:ASP:OD1	2.50	0.45
2:U5:363:VAL:HG23	2:U5:366:GLY:HA3	1.99	0.45
2:U9:91:GLN:N	2:U9:121:ARG:HH22	2.14	0.45
2:V1:200:VAL:HG13	2:V1:268:MET:HE2	1.98	0.45
2:V1:417:GLU:OE1	2:V1:417:GLU:N	2.36	0.45
2:V7:129:CYS:SG	2:V7:130:THR:N	2.89	0.45
2:W3:115:VAL:HG11	2:W3:152:LEU:HD23	1.98	0.45
1:W4:375:GLN:HB3	1:W4:422:TYR:HD2	1.82	0.45
2:W9:88:HIS:ND1	2:W9:89:PRO:HD2	2.32	0.45
1:X0:42:LEU:CD2	8:4X:97:PHE:CE2	2.92	0.45
1:X2:41:ASP:HA	1:X2:44:LEU:HD13	1.98	0.45
1:X2:263:LEU:HD21	1:X2:421:GLU:OE1	2.17	0.45
1:X4:99:ASN:HD22	2:X5:258:ASN:HD21	1.63	0.45
1:X4:266:PHE:CE1	1:X4:370:ASN:HB2	2.51	0.45
1:X6:266:PHE:HE1	1:X6:370:ASN:HB2	1.81	0.45
1:Y2:395:LEU:O	1:Y2:399:THR:HG23	2.16	0.45
2:Y3:298:PRO:HA	2:Y3:301:MET:HG3	1.98	0.45
2:Y3:360:PRO:HD2	2:Y3:371:VAL:O	2.17	0.45
1:Y4:237:THR:O	1:Y4:241:ARG:NE	2.42	0.45
1:Y4:257:LEU:HA	1:Y4:312:THR:HG21	1.99	0.45
2:Y5:405:VAL:HG23	2:Y5:418:PHE:HE2	1.82	0.45
2:Y9:65:CYS:SG	2:Y9:66:ILE:N	2.90	0.45
2:Y9:90:GLU:HB2	2:0F:283:HIS:CE1	2.52	0.45
2:Y9:170:THR:O	2:Y9:204:LEU:HB2	2.16	0.45
2:Z1:22:GLU:OE2	2:Z1:229:ARG:NH1	2.45	0.45
2:Z3:331:SER:O	2:Z3:335:ILE:HG12	2.16	0.45
1:Z6:11:GLN:HG2	1:Z6:12:CYS:N	2.32	0.45
2:Z7:15:GLN:HB3	2:Z7:228:ASN:ND2	2.32	0.45
2:Z7:246:GLY:HA3	2:Z7:356:ASN:HA	1.98	0.45
1:Z8:21:TRP:CH2	1:Z8:61:PRO:HB3	2.51	0.45
2:0B:259:LEU:HB3	2:0B:268:MET:CE	2.47	0.45
1:0C:86:ARG:HG2	1:0C:88:ASP:H	1.80	0.45
1:0I:12:CYS:HB2	39:0I:502:GDP:C8	2.51	0.45
1:0K:126:SER:HB3	1:1A:291:GLN:HE22	1.81	0.45
2:0L:383:ALA:O	2:0L:387:ILE:HG12	2.17	0.45
2:0N:246:GLY:HA3	2:0N:356:ASN:HA	1.98	0.45
1:0O:270:PHE:HD2	1:0O:273:LEU:HD21	1.81	0.45
2:0P:336:LYS:O	2:0P:339:ARG:NH2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0R:175:PRO:HB3	2:0R:390:ARG:HE	1.81	0.45
2:0R:177:VAL:HG13	1:0S:327:ASP:OD2	2.17	0.45
1:0S:293:MET:SD	1:0S:367:PHE:HB2	2.57	0.45
1:1A:163:MET:HG2	1:1A:250:LEU:HD22	1.98	0.45
1:1C:242:PHE:CD1	1:1C:356:ILE:HG13	2.52	0.45
2:1F:274:PRO:HB2	2:1F:276:ILE:CG1	2.47	0.45
1:1G:186:THR:HG22	1:1G:411:ALA:HB1	1.98	0.45
1:1G:193:VAL:HG12	1:1G:265:PHE:HZ	1.82	0.45
1:1G:268:VAL:HB	1:1G:300:MET:HB2	1.98	0.45
1:1G:385:PHE:HZ	1:1G:408:PHE:HD1	1.64	0.45
1:1G:404:ASP:HB3	1:1G:406:MET:SD	2.57	0.45
1:1G:418:LEU:O	1:1G:421:GLU:HG2	2.17	0.45
2:1H:75:VAL:HG21	2:1H:94:SER:OG	2.17	0.45
1:1M:174:LYS:HG3	1:1M:380:ARG:NH2	2.32	0.45
2:1N:279:GLU:HB3	9:4Z:118:LYS:NZ	2.32	0.45
2:1P:98:ASP:OD2	2:1P:99:ALA:N	2.50	0.45
1:1S:144:GLY:N	39:1S:502:GDP:O1B	2.49	0.45
2:1T:290:GLU:HA	2:1T:293:ASN:HD22	1.81	0.45
1:1U:77:ARG:HH21	1:1U:90:PHE:HD2	1.64	0.45
2:1V:69:ASP:OD2	2:1V:70:LEU:N	2.47	0.45
1:1W:135:VAL:O	1:1W:166:THR:HA	2.17	0.45
1:1W:286:VAL:O	1:1W:289:LEU:HG	2.16	0.45
2:1X:424:ASP:O	2:1X:428:LEU:HG	2.17	0.45
2:2B:250:VAL:HG23	2:2B:254:GLU:HG3	1.98	0.45
2:2F:312:TYR:HB2	2:2F:343:PHE:CD1	2.52	0.45
2:2J:394:LYS:HB2	1:2K:346:PRO:HG3	1.98	0.45
2:2L:56:THR:HG21	2:3B:283:HIS:O	2.17	0.45
1:2M:48:ASN:N	1:2M:48:ASN:OD1	2.49	0.45
1:2Q:10:GLY:HA2	1:2Q:143:THR:HG23	1.99	0.45
1:2S:178:THR:HG23	1:2S:181:GLU:HG3	1.99	0.45
2:2V:187:SER:O	2:2V:191:THR:HG23	2.16	0.45
2:2V:297:GLU:CD	38:8B:74:ILE:HG12	2.37	0.45
1:2W:183:TYR:O	1:2W:187:LEU:HD13	2.16	0.45
2:2X:42:ILE:HD12	2:2X:42:ILE:HA	1.68	0.45
1:2Y:72:THR:O	1:2Y:76:VAL:HG23	2.16	0.45
1:2Y:317:PHE:HB3	1:2Y:321:MET:HE1	1.97	0.45
1:3A:170:VAL:HG21	1:3A:377:MET:SD	2.57	0.45
2:3F:111:GLY:HA2	2:3F:114:ILE:HG22	1.99	0.45
1:3I:377:MET:O	1:3I:380:ARG:HG2	2.17	0.45
2:3J:192:HIS:HD2	2:3J:421:ALA:HA	1.82	0.45
2:3L:88:HIS:N	2:3L:91:GLN:OE1	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3L:177:VAL:HG13	1:3M:327:ASP:HB2	1.98	0.45
1:3M:97:ALA:HB3	1:3M:143:THR:HG22	1.99	0.45
2:3N:5:ILE:HD11	2:3N:135:PHE:CE1	2.52	0.45
2:3P:21:TRP:CZ3	2:3P:63:PRO:HB3	2.52	0.45
2:3P:183:GLU:CD	2:3P:184:PRO:HD3	2.37	0.45
1:3Q:265:PHE:HD2	1:3Q:422:TYR:HH	1.65	0.45
2:3R:425:LEU:HD23	2:3R:429:GLU:HG2	1.98	0.45
1:3S:66:MET:SD	1:3S:147:MET:HG2	2.57	0.45
2:3T:3:GLU:HB2	2:3T:129:CYS:SG	2.57	0.45
2:3T:203:MET:C	2:3T:204:LEU:HD12	2.37	0.45
4:4E:150:GLU:HA	4:4E:150:GLU:OE1	2.17	0.45
4:4G:150:GLU:HA	4:4G:150:GLU:OE1	2.17	0.45
4:4I:150:GLU:OE1	4:4I:150:GLU:HA	2.17	0.45
7:4R:117:GLY:HA3	21:6G:37:ILE:HD11	1.98	0.45
9:4Z:80:ARG:NH1	9:4Z:84:ILE:HD11	2.31	0.45
10:5B:215:ALA:O	10:5B:219:GLU:HG2	2.17	0.45
14:5L:18:GLU:OE2	14:5L:18:GLU:N	2.50	0.45
14:5L:354:GLU:HB2	14:5L:368:HIS:HD2	1.81	0.45
14:5N:354:GLU:HB2	14:5N:368:HIS:HD2	1.81	0.45
15:5O:8:CYS:SG	15:5O:80:ASP:HB2	2.57	0.45
15:5O:176:ILE:HG13	15:5O:177:GLY:N	2.32	0.45
18:5Y:60:PRO:HA	18:5Y:63:LEU:HD12	1.98	0.45
18:5Z:29:ILE:HD12	18:5Z:87:LEU:HD21	1.99	0.45
18:5Z:60:PRO:HA	18:5Z:63:LEU:HD12	1.98	0.45
18:6B:60:PRO:HA	18:6B:63:LEU:HD12	1.98	0.45
18:6D:60:PRO:HA	18:6D:63:LEU:HD12	1.98	0.45
19:6E:74:VAL:HA	19:6E:77:GLN:NE2	2.31	0.45
20:6F:49:ALA:O	20:6F:53:SER:OG	2.34	0.45
20:6F:344:LEU:CD1	20:6F:375:PRO:HB3	2.47	0.45
22:6I:294:LEU:HD12	22:6I:295:LYS:N	2.31	0.45
22:6L:151:LYS:HE3	22:6L:151:LYS:HB3	1.79	0.45
24:6T:512:TYR:CZ	24:6T:523:ILE:HG23	2.52	0.45
24:6V:507:ARG:HA	24:6V:507:ARG:NH2	2.32	0.45
24:6V:593:LEU:CD1	24:6V:613:LYS:HD3	2.47	0.45
24:6X:617:ASP:OD2	24:6X:620:LYS:N	2.43	0.45
24:6Y:184:ALA:HB1	24:6Y:188:THR:OG1	2.17	0.45
24:6Y:577:VAL:HG21	24:6Y:630:LEU:HD21	1.99	0.45
27:7G:105:LEU:HD23	27:7G:105:LEU:HA	1.86	0.45
30:7L:375:SER:OG	30:7L:377:GLU:OE2	2.34	0.45
34:7S:240:HIS:O	34:7S:244:MET:HG2	2.17	0.45
38:7Z:10:ALA:HA	38:7Z:17:GLY:HA2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:8A:73:TRP:CE3	38:8A:73:TRP:N	2.85	0.45
38:8C:177:HIS:O	38:8C:177:HIS:CG	2.70	0.45
38:8C:182:ASN:HB3	38:8C:185:MET:HB2	1.97	0.45
2:4:11:GLN:HB3	41:4:501:GTP:PA	2.57	0.45
1:A3:281:TYR:HD2	1:T6:87:PRO:HD2	1.80	0.45
1:A3:413:SER:HA	3:4H:203:LYS:NZ	2.32	0.45
2:D1:279:GLU:OE2	18:6A:167:SER:HA	2.17	0.45
2:G1:213:CYS:SG	2:G1:219:ILE:HB	2.57	0.45
2:G1:226:ASN:O	2:G1:230:LEU:HG	2.17	0.45
1:G2:58:ARG:HD3	1:H8:280:GLN:HE22	1.82	0.45
1:G2:175:VAL:HG12	2:G3:329:ASN:CG	2.38	0.45
1:G2:218:THR:N	24:6W:418:ASP:OD2	2.46	0.45
1:G4:361:LEU:HD23	1:G4:361:LEU:HA	1.74	0.45
1:G6:232:VAL:HG12	1:G6:236:ILE:HD11	1.99	0.45
1:G6:361:LEU:HD23	1:G6:361:LEU:HA	1.79	0.45
1:G8:315:ALA:HB1	1:G8:317:PHE:CE1	2.52	0.45
2:H1:167:LEU:HB3	2:H1:169:PHE:CE2	2.52	0.45
1:H2:134:GLN:HE21	1:H2:167:PHE:HE2	1.64	0.45
1:H4:4:ILE:HB	1:H4:50:TYR:HE1	1.82	0.45
1:H4:19:LYS:HD2	1:H4:22:GLU:OE1	2.17	0.45
2:H5:88:HIS:HB3	2:J1:283:HIS:CE1	2.52	0.45
1:H6:334:GLN:NE2	1:H6:348:ASN:H	2.12	0.45
2:H7:47:ASP:N	2:H7:47:ASP:OD1	2.49	0.45
1:H8:334:GLN:HE22	1:H8:348:ASN:H	1.65	0.45
2:H9:313:MET:HB2	2:H9:380:ASN:HB3	1.99	0.45
1:I0:174:LYS:HG2	1:I0:380:ARG:NH2	2.32	0.45
1:I2:48:ASN:N	1:I2:48:ASN:OD1	2.49	0.45
1:I2:186:THR:HG22	1:I2:411:ALA:HB1	1.99	0.45
1:I2:190:HIS:HD2	1:I2:411:ALA:HA	1.82	0.45
1:I2:253:LEU:HD23	1:I2:253:LEU:HA	1.92	0.45
2:I3:127:ASP:OD2	2:J9:293:ASN:ND2	2.50	0.45
1:I8:2:ARG:HE	1:I8:240:LEU:HD22	1.81	0.45
1:I8:303:ALA:HA	1:I8:376:GLU:OE2	2.17	0.45
2:I9:201:ALA:O	2:I9:268:MET:HE2	2.17	0.45
2:J1:9:ILE:HD13	2:J1:150:GLY:HA2	1.97	0.45
1:J4:95:THR:OG1	1:J4:96:GLY:N	2.49	0.45
2:J5:240:ALA:HB1	2:J5:356:ASN:HD22	1.82	0.45
1:J8:50:TYR:CE2	1:J8:241:ARG:HD3	2.52	0.45
1:J8:173:PRO:HD2	1:J8:380:ARG:NH1	2.32	0.45
2:J9:96:LYS:HE3	28:7X:463:ASN:HA	1.99	0.45
1:K0:406:MET:SD	1:K0:410:GLU:HG2	2.57	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K1:377:MET:O	2:K1:378:ILE:HD13	2.15	0.45
2:K5:12:ALA:HB2	41:K6:501:GTP:C8	2.52	0.45
2:K5:239:THR:HG23	2:K5:243:ARG:HE	1.81	0.45
1:K6:139:LEU:HD22	1:K6:188:SER:OG	2.17	0.45
1:K6:175:VAL:HG22	2:K7:329:ASN:ND2	2.32	0.45
1:K6:203:ASP:OD2	1:K6:302:ALA:N	2.50	0.45
2:K9:9:ILE:HG22	2:K9:146:GLY:HA2	1.98	0.45
2:K9:428:LEU:HG	2:K9:432:PHE:HE2	1.81	0.45
2:L5:88:HIS:HB2	2:N1:283:HIS:ND1	2.32	0.45
2:L7:11:GLN:O	2:L7:14:ILE:HG12	2.16	0.45
2:L9:155:GLU:HG3	2:L9:156:ARG:N	2.32	0.45
1:M0:246:LEU:HD22	1:M0:352:SER:HA	1.99	0.45
1:M6:100:ASN:HB3	1:M6:103:LYS:HB2	1.99	0.45
2:M7:100:ALA:HB1	1:M8:252:LYS:HB3	1.99	0.45
2:N1:139:ASN:N	2:N1:139:ASN:OD1	2.50	0.45
2:N1:221:ARG:NE	30:7L:309:ASP:O	2.50	0.45
1:N2:185:ALA:O	1:N2:189:VAL:HG12	2.16	0.45
2:N3:116:ASP:OD2	2:N3:116:ASP:N	2.50	0.45
2:N5:14:ILE:HD11	2:N5:74:VAL:HG13	1.98	0.45
2:N7:181:VAL:H	1:N8:256:ASN:ND2	2.15	0.45
2:N9:279:GLU:HB2	2:N9:280:LYS:HZ2	1.82	0.45
2:O1:175:PRO:HB3	2:O1:390:ARG:NE	2.32	0.45
2:O3:105:ARG:O	2:O3:109:THR:OG1	2.35	0.45
1:O4:179:VAL:H	2:O5:258:ASN:ND2	2.14	0.45
1:O4:417:ASP:O	1:O4:421:GLU:HG2	2.17	0.45
1:O8:183:TYR:O	1:O8:187:LEU:HD13	2.17	0.45
2:O9:91:GLN:HG3	2:O9:121:ARG:HH22	1.82	0.45
2:O9:156:ARG:HA	2:O9:159:VAL:HG12	1.99	0.45
1:P4:313:ALA:HA	1:P4:369:GLY:HA2	1.98	0.45
1:Q2:2:ARG:HB3	1:Q2:131:GLN:HB2	1.99	0.45
1:Q2:3:GLU:HB2	1:Q2:130:LEU:HD13	1.98	0.45
2:Q3:274:PRO:HB2	2:Q3:276:ILE:HG12	1.99	0.45
1:Q4:42:LEU:HA	1:Q4:45:GLU:OE1	2.17	0.45
1:Q6:128:ASP:OD1	1:Q6:128:ASP:N	2.50	0.45
1:Q8:77:ARG:HH21	24:6T:33:LEU:HD11	1.81	0.45
1:Q8:291:GLN:HG3	1:Q8:292:GLN:H	1.82	0.45
2:Q9:66:ILE:O	2:Q9:66:ILE:HG13	2.16	0.45
1:R0:69:GLU:C	1:R0:92:PHE:HZ	2.20	0.45
2:R3:69:ASP:OD1	2:R3:70:LEU:N	2.50	0.45
1:R4:117:LEU:HA	1:R4:117:LEU:HD23	1.75	0.45
1:R6:391:ARG:HG3	2:R7:346:TRP:CD2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R9:237:SER:HA	2:R9:320:ARG:HD2	1.98	0.45
1:S0:177:ASP:N	1:S0:181:GLU:OE2	2.50	0.45
2:S5:88:HIS:CG	2:S5:89:PRO:HD2	2.52	0.45
2:S5:90:GLU:CD	2:S5:121:ARG:HD3	2.38	0.45
2:S5:287:SER:H	2:S5:290:GLU:CD	2.19	0.45
1:S8:157:GLU:OE2	1:S8:157:GLU:HA	2.17	0.45
2:S9:346:TRP:O	2:S9:348:PRO:HD3	2.17	0.45
1:T2:405:GLU:HA	1:T2:408:PHE:HD2	1.82	0.45
2:T3:5:ILE:HG22	2:T3:64:ARG:HB3	1.99	0.45
1:T4:175:VAL:HG22	2:T5:329:ASN:ND2	2.32	0.45
1:T4:384:GLN:HG2	2:T5:348:PRO:HB2	1.98	0.45
2:T5:145:THR:OG1	41:T6:501:GTP:O1B	2.30	0.45
2:T5:417:GLU:HA	2:T5:420:GLU:HG2	1.99	0.45
1:T6:376:GLU:HA	1:T6:376:GLU:OE1	2.16	0.45
1:T6:376:GLU:OE1	1:T6:379:LYS:HD2	2.15	0.45
1:T8:114:ASP:N	1:T8:114:ASP:OD1	2.50	0.45
1:U2:190:HIS:HD2	1:U2:414:ASN:OD1	2.00	0.45
2:U5:72:PRO:HD2	1:U6:2:ARG:HH12	1.82	0.45
2:U5:119:LEU:HD11	2:U5:156:ARG:CB	2.47	0.45
2:U5:175:PRO:HG2	2:U5:176:GLN:OE1	2.17	0.45
1:V0:53:GLU:OE1	1:V0:57:GLY:HA2	2.17	0.45
1:V2:70:PRO:N	1:V2:92:PHE:HZ	2.15	0.45
2:V3:63:PRO:HB2	2:V3:65:CYS:SG	2.56	0.45
1:V4:128:ASP:OD1	1:V4:129:CYS:N	2.45	0.45
1:V4:273:LEU:HD23	1:V4:273:LEU:HA	1.83	0.45
1:V6:137:HIS:ND1	1:V6:138:SER:O	2.45	0.45
1:V6:172:SER:HB2	1:V6:205:GLU:OE2	2.17	0.45
2:W1:88:HIS:HB3	2:W1:91:GLN:CD	2.38	0.45
2:W1:88:HIS:HD2	2:W1:121:ARG:HH22	1.63	0.45
2:W3:90:GLU:OE2	2:W3:90:GLU:CA	2.64	0.45
2:W3:276:ILE:CD1	2:W3:284:GLU:HG2	2.47	0.45
2:W7:222:PRO:CD	1:W8:324:LYS:HE3	2.47	0.45
1:X0:309:ARG:H	1:X0:372:THR:CG2	2.30	0.45
1:X2:317:PHE:HB3	1:X2:321:MET:CE	2.46	0.45
2:X5:217:LEU:HD11	2:X5:367:ASP:O	2.17	0.45
1:X8:112:LEU:O	1:X8:115:SER:OG	2.30	0.45
1:Y0:21:TRP:HA	1:Y0:24:VAL:HG12	1.99	0.45
1:Y0:183:TYR:HB3	1:Y0:398:TYR:HE2	1.81	0.45
1:Y2:47:ILE:HD12	1:Y2:59:TYR:CE1	2.52	0.45
1:Y4:101:TRP:CE3	1:Y4:403:MET:HE1	2.52	0.45
1:Y6:30:ILE:HG13	1:Y6:35:THR:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y8:173:PRO:HB3	1:Y8:384:GLN:HE22	1.82	0.45
1:Y8:395:LEU:HD23	1:Y8:395:LEU:HA	1.79	0.45
2:Y9:187:SER:O	2:Y9:191:THR:HG23	2.15	0.45
2:Y9:238:LEU:HD11	2:Y9:378:ILE:HD11	1.98	0.45
1:Z0:131:GLN:HE21	1:Z0:250:LEU:HB3	1.82	0.45
1:Z2:86:ARG:HD3	1:Z2:88:ASP:HB2	1.99	0.45
2:Z3:319:TYR:HD2	2:Z3:323:VAL:HG21	1.82	0.45
1:Z6:87:PRO:HA	1:Z6:90:PHE:CD2	2.51	0.45
1:Z8:132:GLY:HA2	1:Z8:162:ARG:HB3	1.98	0.45
2:0B:12:ALA:O	2:0B:16:VAL:HG23	2.17	0.45
2:0B:187:SER:O	2:0B:191:THR:HG23	2.17	0.45
1:0C:45:GLU:HG3	1:0C:46:ARG:HG2	1.99	0.45
1:0E:318:ARG:HB3	1:0E:357:PRO:HA	1.99	0.45
1:0G:5:VAL:HG23	1:0G:62:ARG:HG2	1.99	0.45
1:0G:397:TRP:HE1	2:0H:260:VAL:HB	1.81	0.45
2:0J:66:ILE:HG13	2:0J:122:ILE:CD1	2.47	0.45
2:0J:336:LYS:O	2:0J:339:ARG:NH2	2.50	0.45
1:0K:58:ARG:HH11	1:1A:281:TYR:HE1	1.65	0.45
1:0O:4:ILE:HD11	1:0O:134:GLN:HB2	1.99	0.45
1:0O:136:CYS:HG	1:0O:167:PHE:HD2	1.65	0.45
1:0Q:175:VAL:O	1:0Q:175:VAL:HG13	2.17	0.45
1:0Q:193:VAL:HG21	1:0Q:418:LEU:HD11	1.97	0.45
1:0Q:211:CYS:O	1:0Q:216:LYS:N	2.50	0.45
1:0S:320:ARG:HG2	1:0S:355:ASP:HB2	1.98	0.45
1:0S:372:THR:O	1:0S:375:GLN:HG2	2.17	0.45
2:0V:105:ARG:HA	2:0V:109:THR:OG1	2.17	0.45
2:0V:415:GLU:HA	2:0V:418:PHE:HD2	1.82	0.45
1:0Y:221:THR:HG23	1:0Y:223:GLY:H	1.81	0.45
2:1F:47:ASP:N	2:1F:47:ASP:OD1	2.49	0.45
2:1H:223:THR:OG1	2:1H:224:TYR:N	2.50	0.45
1:1K:200:MET:HE1	1:1K:368:ILE:CD1	2.47	0.45
1:1M:403:MET:HE3	1:1M:403:MET:HB2	1.86	0.45
2:1T:35:GLN:HB3	2:1T:59:GLY:O	2.16	0.45
1:1U:232:VAL:HG21	1:1U:300:MET:HE2	1.99	0.45
2:1V:235:ILE:HD13	2:1V:238:LEU:HD21	1.99	0.45
2:1V:424:ASP:O	2:1V:428:LEU:HD23	2.17	0.45
1:1W:414:ASN:HA	1:1W:417:ASP:OD2	2.17	0.45
2:1X:305:CYS:HB3	2:1X:387:ILE:HD11	1.98	0.45
2:2B:21:TRP:CZ2	2:2B:65:CYS:HB2	2.51	0.45
1:2G:141:GLY:HA3	39:2G:502:GDP:O3A	2.17	0.45
1:2G:262:ARG:NH2	1:2G:417:ASP:OD1	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2J:79:ARG:O	2:2J:84:ARG:HG2	2.16	0.45
1:2M:31:ASP:OD1	1:2M:34:GLY:N	2.50	0.45
1:2Q:334:GLN:HA	1:2Q:341:PHE:CE2	2.51	0.45
2:2T:27:GLU:CD	2:2T:243:ARG:HH12	2.19	0.45
2:2T:245:ASP:HB3	38:8B:216:ARG:HG2	1.98	0.45
1:2U:49:VAL:HG11	1:2U:241:ARG:HG2	1.97	0.45
2:2X:406:HIS:HA	2:2X:409:VAL:HG22	1.99	0.45
1:2Y:178:THR:CG2	1:2Y:181:GLU:HG3	2.47	0.45
1:3A:100:ASN:HB3	1:3A:103:LYS:HB2	1.98	0.45
2:3B:119:LEU:HD11	2:3B:156:ARG:CB	2.47	0.45
1:3C:150:LEU:HD12	1:3C:153:SER:OG	2.17	0.45
2:3F:267:PHE:HB2	2:3F:384:ILE:HD12	1.99	0.45
1:3G:100:ASN:HB3	1:3G:103:LYS:HB2	1.98	0.45
1:3G:117:LEU:HA	1:3G:120:VAL:HG12	1.98	0.45
2:3H:9:ILE:HG22	2:3H:146:GLY:HA2	1.99	0.45
2:3J:133:GLN:HB3	2:3J:252:ILE:CG2	2.46	0.45
1:3M:77:ARG:NH1	3:4D:18:LYS:O	2.50	0.45
2:3N:264:ARG:NH2	2:3N:431:ASP:OD1	2.49	0.45
1:3Q:135:VAL:HG11	1:3Q:152:ILE:HD11	1.99	0.45
2:3R:290:GLU:OE1	2:3R:290:GLU:N	2.42	0.45
2:3R:397:LEU:HA	2:3R:397:LEU:HD23	1.71	0.45
1:3S:286:VAL:HG12	1:3S:329:GLN:HG3	1.99	0.45
2:3T:141:VAL:HG13	2:3T:170:THR:HG21	1.99	0.45
2:3T:325:PRO:O	2:3T:328:VAL:HG12	2.16	0.45
4:3W:150:GLU:OE1	4:3W:150:GLU:HA	2.17	0.45
6:4P:96:ILE:O	6:4P:100:GLU:HG2	2.17	0.45
10:5C:383:GLN:O	10:5C:387:LYS:HG2	2.17	0.45
14:5L:136:SER:O	14:5L:138:ASN:N	2.46	0.45
14:5M:354:GLU:HB2	14:5M:368:HIS:HD2	1.81	0.45
14:5M:531:ASP:OD1	14:5M:531:ASP:N	2.44	0.45
14:5N:136:SER:O	14:5N:138:ASN:N	2.46	0.45
15:5O:205:CYS:SG	15:5O:205:CYS:O	2.75	0.45
15:5O:333:GLU:HB3	30:7K:241:LYS:HZ3	1.76	0.45
15:5P:21:LEU:CD2	15:5P:21:LEU:C	2.86	0.45
15:5P:145:PHE:CZ	15:5P:149:LEU:HD11	2.52	0.45
17:5T:227:ARG:O	17:5T:231:ARG:HG2	2.17	0.45
17:5U:188:LYS:HB3	17:5U:222:ILE:HD11	1.99	0.45
18:6B:70:TYR:HE1	18:6B:85:THR:HG22	1.81	0.45
20:6F:259:LEU:HD22	20:6F:281:LYS:HB2	1.99	0.45
20:6F:331:LEU:HD12	20:6F:357:VAL:HG11	1.98	0.45
21:6H:106:ARG:HB2	24:6X:81:THR:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:6J:188:ARG:NH2	22:6J:256:TYR:O	2.50	0.45
22:6N:64:VAL:HG12	24:6Y:399:ILE:HD13	1.98	0.45
22:6N:162:LEU:HD11	22:6N:225:ALA:HB1	1.99	0.45
24:6U:474:PHE:HE2	24:6U:500:ARG:HE	1.64	0.45
24:6X:451:LYS:HB3	24:6X:468:ARG:NH1	2.32	0.45
24:6Z:23:SER:O	24:6Z:25:LYS:N	2.49	0.45
24:6Z:473:TYR:CD1	24:6Z:517:LEU:HD11	2.52	0.45
26:7D:49:PRO:HA	26:7D:55:THR:OG1	2.17	0.45
29:7I:23:ILE:CG1	29:7I:24:PRO:HD2	2.46	0.45
30:7L:359:ASP:O	30:7L:363:VAL:HG13	2.17	0.45
31:7M:60:ILE:HG13	31:7M:61:THR:N	2.32	0.45
34:7R:97:ASN:O	34:7R:100:GLN:HG3	2.17	0.45
38:8C:213:GLU:HG3	38:8C:214:HIS:N	2.31	0.45
1:A3:41:ASP:H	26:7F:122:VAL:HG23	1.80	0.45
1:C8:77:ARG:HG2	24:6V:318:PHE:CD2	2.52	0.45
2:G5:292:THR:HG21	2:G5:331:SER:HB3	1.99	0.45
1:G6:324:LYS:HG2	1:G6:328:GLU:OE1	2.16	0.45
2:G7:147:SER:HB2	2:G7:190:SER:HB3	1.98	0.45
2:G9:66:ILE:HD13	2:G9:91:GLN:HB3	1.99	0.45
2:H1:88:HIS:HB3	2:I7:283:HIS:CE1	2.51	0.45
2:H1:161:TYR:O	2:H1:163:LYS:NZ	2.35	0.45
2:H1:209:ILE:HG21	2:H1:227:LEU:HG	1.98	0.45
2:H1:217:LEU:HB3	2:H1:219:ILE:CD1	2.46	0.45
2:H1:336:LYS:HA	2:H1:336:LYS:HD3	1.82	0.45
1:H2:154:LYS:HA	1:H2:154:LYS:HD3	1.86	0.45
2:H3:101:ASN:ND2	2:H3:143:GLY:HA2	2.32	0.45
2:H3:157:LEU:HD23	2:H3:157:LEU:HA	1.79	0.45
1:H4:3:GLU:O	1:H4:131:GLN:HB3	2.17	0.45
2:H5:47:ASP:OD1	2:H5:48:ALA:N	2.50	0.45
1:H6:276:ARG:HH12	24:6V:489:ASN:C	2.20	0.45
1:H8:175:VAL:HG22	1:H8:205:GLU:HB2	1.97	0.45
2:I1:76:ASP:O	2:I1:80:THR:HG23	2.17	0.45
2:I3:88:HIS:ND1	2:J9:283:HIS:HB3	2.32	0.45
2:I5:105:ARG:O	2:I5:110:ILE:HG12	2.17	0.45
2:I5:288:VAL:HG21	2:I5:328:VAL:HG12	1.99	0.45
2:I7:175:PRO:HB3	2:I7:390:ARG:HE	1.82	0.45
1:I8:152:ILE:HD12	1:I8:164:MET:SD	2.56	0.45
2:I9:102:ASN:HB3	2:I9:105:ARG:HB3	1.98	0.45
2:J1:172:TYR:HB2	2:J1:205:ASP:OD1	2.17	0.45
2:J5:45:GLY:O	2:J5:46:ASP:C	2.55	0.45
2:J5:66:ILE:O	2:J5:66:ILE:HG13	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K0:1:MET:HB3	1:K0:2:ARG:H	1.68	0.45
1:K0:135:VAL:O	1:K0:166:THR:HA	2.17	0.45
2:K7:121:ARG:HD2	2:K7:125:LEU:HG	1.99	0.45
1:L2:337:ASN:HD21	29:7J:462:LYS:HB2	1.82	0.45
1:L4:320:ARG:NH2	29:7J:350:LYS:HA	2.25	0.45
2:L5:326:LYS:HE3	2:L5:327:ASP:CG	2.37	0.45
2:L7:180:ALA:HB3	2:L7:183:GLU:HB3	1.98	0.45
2:L9:7:ILE:HG22	2:L9:66:ILE:HG12	1.99	0.45
2:L9:72:PRO:HD2	1:M0:2:ARG:NH1	2.32	0.45
1:M0:179:VAL:HG22	2:M1:258:ASN:HD22	1.82	0.45
2:M3:248:LEU:HD22	2:M3:354:GLY:HA2	1.98	0.45
2:M3:405:VAL:HG13	2:M3:418:PHE:HE2	1.82	0.45
1:M6:251:ARG:O	1:M6:255:VAL:HG23	2.17	0.45
1:N2:404:ASP:HB3	1:N2:406:MET:SD	2.57	0.45
2:N3:11:GLN:HE22	2:N3:74:VAL:HG11	1.82	0.45
1:N8:95:THR:OG1	1:N8:96:GLY:N	2.50	0.45
2:N9:156:ARG:HA	2:N9:159:VAL:HG22	1.99	0.45
1:O2:371:SER:OG	1:O2:372:THR:N	2.50	0.45
2:O3:278:ALA:HA	2:O3:369:ALA:HB2	2.00	0.45
1:O6:248:ALA:HA	1:O6:252:LYS:HD2	1.99	0.45
2:P3:124:LYS:HA	2:P3:127:ASP:HB2	1.98	0.45
1:P4:28:HIS:NE2	1:P4:241:ARG:HD2	2.32	0.45
2:P5:26:LEU:HD23	2:P5:363:VAL:HG12	1.99	0.45
1:P6:199:CYS:HB2	1:P6:265:PHE:CD1	2.52	0.45
1:Q2:350:LYS:HZ3	1:Q2:351:SER:C	2.20	0.45
1:Q6:167:PHE:CE2	1:Q6:233:MET:HG2	2.52	0.45
1:Q8:8:GLN:CD	1:Q8:17:GLY:HA3	2.37	0.45
1:R6:138:SER:OG	1:R6:139:LEU:N	2.50	0.45
1:R8:6:HIS:CE1	1:R8:8:GLN:HG2	2.52	0.45
1:S4:185:ALA:O	1:S4:189:VAL:HG13	2.16	0.45
1:S6:227:HIS:CG	7:4T:241:PHE:CZ	3.01	0.45
1:S8:390:ARG:HB3	13:5I:54:ILE:HD12	1.97	0.45
1:T0:390:ARG:HE	1:T0:391:ARG:HE	1.65	0.45
2:T1:285:GLN:O	2:T1:285:GLN:HG3	2.16	0.45
1:T2:190:HIS:NE2	1:T2:414:ASN:OD1	2.50	0.45
1:T4:40:SER:OG	21:6H:93:HIS:NE2	2.50	0.45
1:T4:231:ALA:HB2	7:4U:128:LEU:HD11	1.98	0.45
2:T5:306:ASP:HB3	2:T5:309:HIS:CD2	2.52	0.45
1:T8:385:PHE:HZ	1:T8:408:PHE:HD1	1.64	0.45
1:U2:31:ASP:HB2	1:U2:32:PRO:HD2	1.99	0.45
1:U2:375:GLN:HB2	1:U2:419:VAL:HG13	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U6:95:THR:OG1	1:U6:96:GLY:N	2.50	0.45
1:U8:5:VAL:HG23	1:U8:62:ARG:HG2	1.99	0.45
2:U9:325:PRO:HA	2:U9:328:VAL:HG12	1.99	0.45
2:V1:208:ALA:O	2:V1:212:ILE:HG12	2.17	0.45
1:V4:117:LEU:HA	1:V4:120:VAL:HG12	1.98	0.45
1:W0:246:LEU:HD22	1:W0:352:SER:HA	1.99	0.45
2:W7:237:SER:HG	2:W7:376:CYS:HG	1.65	0.45
2:W9:33:ASP:HA	2:W9:85:GLN:CB	2.46	0.45
1:X0:63:ALA:O	1:X0:64:ILE:HD13	2.17	0.45
2:X3:11:GLN:OE1	41:X4:501:GTP:C8	2.70	0.45
2:X3:429:GLU:O	2:X3:432:PHE:N	2.50	0.45
2:X5:88:HIS:HB3	2:Z1:283:HIS:CE1	2.52	0.45
2:X7:7:ILE:HG22	2:X7:66:ILE:HG12	1.99	0.45
2:X7:70:LEU:HA	2:X7:95:GLY:HA3	1.98	0.45
1:Y0:203:ASP:N	1:Y0:203:ASP:OD1	2.49	0.45
1:Y0:204:ASN:ND2	39:Y0:502:GDP:HN22	2.14	0.45
1:Y4:2:ARG:HH21	1:Y4:240:LEU:HA	1.81	0.45
1:Y4:86:ARG:HG2	1:Y4:88:ASP:H	1.81	0.45
2:Y5:121:ARG:HD2	2:Y5:121:ARG:HA	1.84	0.45
1:Y6:60:VAL:HG21	1:Y6:86:ARG:NH2	2.31	0.45
1:Y8:267:MET:HE2	1:Y8:301:CYS:HB2	1.97	0.45
1:Y8:330:MET:HA	1:Y8:333:VAL:HG12	1.99	0.45
1:Z0:418:LEU:O	1:Z0:421:GLU:HG2	2.17	0.45
2:Z1:107:HIS:HD2	2:Z1:151:SER:OG	2.00	0.45
1:Z2:66:MET:CE	1:Z2:116:VAL:HG21	2.47	0.45
2:Z3:241:SER:HB3	2:Z3:250:VAL:H	1.81	0.45
1:Z6:167:PHE:CE1	1:Z6:200:MET:HG3	2.52	0.45
1:Z6:244:GLY:HA3	1:Z6:354:CYS:HA	1.99	0.45
1:Z8:233:MET:O	1:Z8:237:THR:HG22	2.17	0.45
2:Z9:338:LYS:HA	2:Z9:338:LYS:HD2	1.74	0.45
1:0E:344:TRP:HH2	1:0E:425:TYR:O	2.00	0.45
2:0F:175:PRO:HG2	2:0F:176:GLN:OE1	2.17	0.45
1:0I:62:ARG:HG3	1:0I:123:GLU:OE2	2.17	0.45
2:0J:25:CYS:SG	2:0J:86:LEU:HD11	2.57	0.45
2:0L:343:PHE:CZ	2:0L:350:GLY:HA3	2.52	0.45
2:0L:407:TRP:NE1	1:0M:258:ILE:O	2.44	0.45
1:0O:21:TRP:CZ3	1:0O:61:PRO:HB3	2.52	0.45
1:0O:317:PHE:HD2	1:0O:353:VAL:HG22	1.81	0.45
1:0Q:183:TYR:O	1:0Q:187:LEU:HD13	2.17	0.45
2:0R:325:PRO:HA	2:0R:328:VAL:HG12	1.99	0.45
2:0R:326:LYS:HE3	2:0R:327:ASP:OD2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0Y:283:ALA:O	1:0Y:284:LEU:HD23	2.16	0.45
1:0Y:389:PHE:HE1	1:0Y:395:LEU:HD11	1.82	0.45
2:0Z:57:GLY:CA	9:4Z:165:ARG:HH22	2.30	0.45
2:1B:178:SER:HB3	2:1B:183:GLU:OE2	2.16	0.45
1:1C:117:LEU:HD23	1:1C:117:LEU:HA	1.80	0.45
1:1C:391:ARG:NH2	2:1D:435:VAL:HA	2.31	0.45
1:1M:21:TRP:CZ3	1:1M:61:PRO:HB3	2.52	0.45
1:1M:117:LEU:HD23	1:1M:117:LEU:HA	1.82	0.45
2:1N:179:THR:HG21	1:1O:246:LEU:HD21	1.98	0.45
2:1P:317:LEU:HB3	2:1P:319:TYR:HE1	1.82	0.45
1:1Q:41:ASP:N	1:1Q:41:ASP:OD2	2.50	0.45
1:1U:244:GLY:HA2	1:1U:355:ASP:OD2	2.17	0.45
2:1V:55:GLU:HG2	2:1V:61:HIS:CE1	2.52	0.45
2:1V:230:LEU:HD23	2:1V:230:LEU:HA	1.77	0.45
1:1W:204:ASN:OD1	39:1W:502:GDP:O2'	2.35	0.45
1:1W:391:ARG:HH22	2:1X:435:VAL:HG12	1.82	0.45
1:1W:415:MET:O	1:1W:419:VAL:HG23	2.17	0.45
2:1X:12:ALA:O	2:1X:16:VAL:HG23	2.17	0.45
2:1Z:384:ILE:HA	2:1Z:387:ILE:HD12	1.98	0.45
1:2C:189:VAL:O	1:2C:193:VAL:HG22	2.17	0.45
2:2D:7:ILE:HG12	2:2D:137:VAL:HG12	1.98	0.45
2:2D:178:SER:OG	1:2E:347:ASN:HB3	2.17	0.45
2:2F:123:ARG:NH2	2:2F:160:ASP:OD1	2.50	0.45
1:2G:117:LEU:HD11	1:2G:154:LYS:HB3	1.98	0.45
2:2L:238:LEU:HD12	2:2L:238:LEU:HA	1.84	0.45
1:2M:12:CYS:HB3	1:2M:138:SER:OG	2.17	0.45
1:2M:172:SER:HB2	1:2M:380:ARG:NH2	2.32	0.45
1:2M:174:LYS:HE2	1:2M:174:LYS:HB3	1.76	0.45
1:2M:200:MET:HE1	1:2M:236:ILE:HD13	1.99	0.45
1:2Q:395:LEU:O	1:2Q:399:THR:HG23	2.16	0.45
2:2X:214:ARG:CZ	38:8B:18:VAL:HG22	2.46	0.45
2:3D:8:HIS:CD2	2:3D:138:PHE:HD2	2.34	0.45
2:3D:26:LEU:HD21	2:3D:364:PRO:HD2	1.99	0.45
2:3F:165:SER:HA	2:3F:199:ASP:OD2	2.17	0.45
1:3G:53:GLU:OE1	1:3G:57:GLY:HA2	2.17	0.45
2:3H:56:THR:HG21	3:3X:34:SER:HA	1.99	0.45
1:3M:2:ARG:HE	1:3M:240:LEU:HD22	1.81	0.45
2:3N:278:ALA:HA	2:3N:369:ALA:HB2	1.99	0.45
1:3Q:139:LEU:HD12	1:3Q:170:VAL:HG12	1.99	0.45
1:3S:322:SER:O	1:3S:326:VAL:HG23	2.17	0.45
1:3S:355:ASP:O	1:3S:356:ILE:HD13	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4C:121:MET:HE1	4:4C:134:PHE:CE1	2.52	0.45
5:4L:326:GLU:HB2	5:4L:327:LYS:NZ	2.32	0.45
6:4O:452:ARG:O	6:4O:455:VAL:HG12	2.17	0.45
9:4Z:344:ALA:O	9:4Z:348:GLU:HG3	2.17	0.45
10:5A:262:ILE:HG12	10:5A:265:LYS:HE3	1.98	0.45
12:5F:385:ASP:OD1	12:5F:386:ILE:N	2.49	0.45
13:5I:99:ASN:HD22	13:5I:99:ASN:N	2.15	0.45
13:5J:99:ASN:HD22	13:5J:99:ASN:N	2.15	0.45
14:5L:354:GLU:OE1	14:5L:354:GLU:N	2.47	0.45
14:5M:136:SER:O	14:5M:138:ASN:N	2.46	0.45
14:5M:354:GLU:OE1	14:5M:354:GLU:N	2.48	0.45
14:5N:218:VAL:O	14:5N:232:GLY:N	2.50	0.45
15:5P:14:LEU:HD23	15:5P:14:LEU:N	2.26	0.45
15:5P:62:LEU:HD22	15:5P:78:TYR:CE2	2.52	0.45
18:5X:60:PRO:HA	18:5X:63:LEU:HD12	1.98	0.45
18:5X:70:TYR:HE1	18:5X:85:THR:HG22	1.81	0.45
18:5X:180:ARG:O	18:5X:184:THR:HG23	2.17	0.45
18:6A:70:TYR:HE1	18:6A:85:THR:HG22	1.81	0.45
18:6C:70:TYR:HE1	18:6C:85:THR:HG22	1.82	0.45
22:6I:265:ASP:OD2	22:6I:266:LYS:N	2.50	0.45
22:6M:83:TRP:HB2	22:6M:86:LEU:HB2	1.98	0.45
22:6O:193:MET:HG2	22:6O:194:TYR:CD1	2.52	0.45
22:6P:271:ARG:O	22:6P:275:LEU:HG	2.17	0.45
24:6T:460:HIS:HB2	24:6T:465:LEU:HD22	1.99	0.45
24:6V:500:ARG:HE	24:6V:500:ARG:HB2	1.62	0.45
24:6X:255:HIS:HA	24:6X:258:ASP:OD1	2.17	0.45
24:6Y:482:ILE:HB	24:6Y:498:LEU:HB3	1.99	0.45
24:6Z:472:SER:HB2	24:6Z:481:LEU:CD2	2.46	0.45
26:7F:30:PHE:HA	26:7F:98:LEU:HD11	1.99	0.45
26:7F:116:GLN:O	26:7F:117:ARG:C	2.55	0.45
26:7F:119:MET:HE3	26:7F:119:MET:CA	2.44	0.45
34:7S:220:VAL:HG21	35:7U:170:PHE:HD1	1.82	0.45
37:7Y:188:LEU:HD23	37:7Y:188:LEU:C	2.37	0.45
38:8B:186:LEU:O	38:8B:188:ARG:NH2	2.50	0.45
1:A1:55:THR:HG21	24:6Y:107:VAL:HG21	1.98	0.44
1:F2:54:ALA:O	1:G8:283:ALA:HA	2.17	0.44
2:G9:211:ASP:OD1	2:G9:215:ARG:NH1	2.51	0.44
2:G9:322:ASP:O	2:G9:373:ARG:NE	2.41	0.44
1:H2:26:ASP:O	1:H2:359:LYS:NZ	2.34	0.44
2:H3:278:ALA:HA	2:H3:369:ALA:CB	2.43	0.44
2:I1:9:ILE:HG13	2:I1:9:ILE:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I1:137:VAL:HG22	2:I1:168:GLY:HA2	1.99	0.44
1:I4:173:PRO:HD2	1:I4:380:ARG:NH1	2.32	0.44
2:I7:9:ILE:HG22	2:I7:146:GLY:HA2	1.99	0.44
1:I8:17:GLY:HA2	1:I8:20:PHE:HB3	1.98	0.44
1:J0:122:LYS:HA	1:J0:125:GLU:OE2	2.16	0.44
2:J3:3:GLU:HB2	2:J3:129:CYS:SG	2.57	0.44
2:J3:274:PRO:HG3	2:J3:286:LEU:HD11	1.97	0.44
2:J5:344:VAL:HG11	2:J5:346:TRP:CE2	2.52	0.44
1:J6:421:GLU:HA	1:J6:424:GLN:HB3	1.99	0.44
2:J9:133:GLN:NE2	2:J9:251:ASP:HB3	2.32	0.44
2:J9:370:LYS:HD2	5:4M:266:PHE:CE2	2.51	0.44
1:K0:203:ASP:OD2	1:K0:302:ALA:N	2.50	0.44
2:K1:84:ARG:HH12	28:7X:407:LYS:CG	2.28	0.44
2:K1:235:ILE:HD13	2:K1:238:LEU:HD21	1.99	0.44
2:K1:333:ALA:O	2:K1:337:THR:HG23	2.18	0.44
2:K7:344:VAL:HG13	2:K7:346:TRP:H	1.81	0.44
2:K9:52:PHE:HZ	2:K9:239:THR:HG21	1.82	0.44
2:K9:53:PHE:HB3	2:K9:61:HIS:HB3	1.99	0.44
2:L3:266:HIS:ND1	2:L3:266:HIS:O	2.49	0.44
2:L3:333:ALA:O	2:L3:337:THR:HG23	2.17	0.44
1:L4:54:ALA:O	1:L4:55:THR:OG1	2.28	0.44
1:L6:267:MET:HB2	1:L6:301:CYS:SG	2.57	0.44
1:L6:404:ASP:HB3	1:L6:406:MET:SD	2.57	0.44
2:L9:265:ILE:HD11	2:L9:435:VAL:HG21	2.00	0.44
2:M3:139:ASN:OD1	2:M3:170:THR:HG22	2.17	0.44
2:M5:84:ARG:NH1	37:7Y:136:GLU:OE2	2.50	0.44
1:M6:73:MET:HA	1:M6:76:VAL:CG2	2.46	0.44
2:M7:88:HIS:HB3	2:M7:89:PRO:HD3	1.98	0.44
1:N2:233:MET:O	1:N2:236:ILE:HG22	2.17	0.44
1:N2:289:LEU:HD23	1:N2:365:ALA:HB2	1.98	0.44
1:N2:356:ILE:HD12	29:7J:105:PHE:HZ	1.81	0.44
2:N7:414:GLU:HG2	2:N7:416:GLY:H	1.81	0.44
2:O1:9:ILE:HG22	2:O1:146:GLY:HA2	1.99	0.44
2:O1:12:ALA:O	2:O1:16:VAL:HG23	2.17	0.44
2:O3:90:GLU:HB3	2:O3:121:ARG:HH12	1.82	0.44
1:O4:361:LEU:CD2	19:6E:73:HIS:HD2	2.30	0.44
1:O4:395:LEU:O	1:O4:399:THR:HG23	2.17	0.44
1:O6:405:GLU:OE2	1:O6:405:GLU:N	2.50	0.44
2:O9:9:ILE:HG22	2:O9:146:GLY:HA2	1.99	0.44
2:O9:90:GLU:C	2:O9:121:ARG:HH12	2.20	0.44
2:P3:7:ILE:HD11	2:P3:137:VAL:HG12	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P5:336:LYS:O	2:P5:339:ARG:NH2	2.50	0.44
1:P8:28:HIS:NE2	1:P8:241:ARG:HD2	2.31	0.44
1:Q0:391:ARG:HE	2:Q1:346:TRP:HH2	1.66	0.44
1:Q2:3:GLU:HB2	1:Q2:130:LEU:HA	1.98	0.44
1:Q4:58:ARG:NH1	1:Q4:83:GLN:O	2.50	0.44
1:Q6:67:ASP:CG	1:Q6:68:LEU:H	2.21	0.44
1:Q8:207:LEU:HB3	1:Q8:225:LEU:HD22	1.99	0.44
2:R3:27:GLU:OE1	2:R3:243:ARG:NH1	2.50	0.44
2:R3:47:ASP:OD2	2:R3:50:ASN:HB2	2.18	0.44
2:R3:88:HIS:ND1	2:S9:283:HIS:HB3	2.32	0.44
2:R3:121:ARG:HA	2:R3:121:ARG:HD2	1.69	0.44
1:R4:359:LYS:HA	21:6G:55:TRP:CZ2	2.52	0.44
1:R4:371:SER:OG	1:R4:372:THR:N	2.49	0.44
2:R5:31:GLN:HG3	11:5E:8:ARG:NH1	2.32	0.44
2:R5:317:LEU:HB3	2:R5:319:TYR:HE1	1.82	0.44
2:R7:9:ILE:HG22	2:R7:146:GLY:HA2	1.99	0.44
1:R8:125:GLU:OE2	1:T4:336:LYS:HE2	2.17	0.44
1:S2:329:GLN:HA	1:S2:332:ASN:ND2	2.32	0.44
1:S4:385:PHE:HZ	1:S4:408:PHE:HB3	1.81	0.44
2:S7:414:GLU:HG2	2:S7:417:GLU:HG2	1.99	0.44
1:S8:148:GLY:O	1:S8:152:ILE:HG12	2.17	0.44
2:S9:392:ASP:OD2	2:S9:422:ARG:NH1	2.50	0.44
1:T0:403:MET:HE3	1:T0:403:MET:HB2	1.78	0.44
2:T1:297:GLU:HG2	2:T1:299:ALA:H	1.82	0.44
1:T2:135:VAL:HG12	1:T2:137:HIS:HD2	1.82	0.44
1:T2:309:ARG:H	1:T2:372:THR:CG2	2.30	0.44
1:T4:135:VAL:HG21	1:T4:152:ILE:HD11	1.99	0.44
1:T6:337:ASN:HD21	17:5U:48:THR:N	2.13	0.44
1:T6:337:ASN:ND2	17:5U:48:THR:H	2.15	0.44
2:T7:211:ASP:OD1	2:T7:214:ARG:NH2	2.50	0.44
2:U5:122:ILE:HA	2:U5:125:LEU:HD12	1.98	0.44
1:V2:282:ARG:HD3	1:V2:282:ARG:H	1.82	0.44
2:V3:9:ILE:HG22	2:V3:146:GLY:HA2	1.98	0.44
1:V6:258:ILE:HD11	1:V6:266:PHE:HZ	1.82	0.44
1:V6:273:LEU:H	1:V6:292:GLN:NE2	2.14	0.44
1:V8:186:THR:HG22	1:V8:411:ALA:HB1	1.99	0.44
2:W3:35:GLN:N	2:W3:35:GLN:OE1	2.50	0.44
2:W3:177:VAL:HG13	1:W4:327:ASP:HB3	1.99	0.44
1:W4:45:GLU:N	1:W4:45:GLU:OE1	2.49	0.44
2:W7:4:VAL:HG23	2:W7:134:GLY:O	2.17	0.44
1:X0:3:GLU:HB2	1:X0:130:LEU:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X0:86:ARG:HG2	1:X0:88:ASP:H	1.83	0.44
1:X4:237:THR:O	1:X4:241:ARG:NE	2.49	0.44
2:X5:50:ASN:O	2:X5:64:ARG:NH2	2.50	0.44
2:X7:182:VAL:HG12	2:X7:182:VAL:O	2.16	0.44
2:X7:210:TYR:CE1	2:X7:227:LEU:HD11	2.52	0.44
1:Y0:2:ARG:HB3	1:Y0:131:GLN:HE21	1.82	0.44
1:Y4:49:VAL:HG13	1:Y4:50:TYR:CD2	2.52	0.44
1:Y6:317:PHE:HE2	1:Y6:326:VAL:HG13	1.83	0.44
1:Y8:395:LEU:O	1:Y8:399:THR:HG23	2.17	0.44
2:Y9:221:ARG:HB3	1:Z0:322:SER:HB2	1.97	0.44
2:Y9:305:CYS:SG	2:Y9:383:ALA:HB1	2.57	0.44
2:Y9:312:TYR:HB2	2:Y9:343:PHE:CD1	2.53	0.44
1:Z0:20:PHE:CE1	1:Z0:233:MET:HG2	2.51	0.44
1:Z0:150:LEU:HD12	1:Z0:150:LEU:HA	1.80	0.44
2:Z1:287:SER:N	2:Z1:290:GLU:OE2	2.50	0.44
1:Z4:294:TRP:CG	1:Z4:333:VAL:HG21	2.52	0.44
1:Z6:116:VAL:O	1:Z6:120:VAL:HG22	2.17	0.44
1:Z6:164:MET:O	1:Z6:197:ASP:HB2	2.17	0.44
2:Z7:31:GLN:HB2	2:Z7:33:ASP:OD1	2.16	0.44
2:Z9:296:PHE:HE2	2:Z9:335:ILE:HG21	1.82	0.44
1:0A:405:GLU:HA	1:0A:408:PHE:HD2	1.81	0.44
1:0C:262:ARG:NH2	1:0C:418:LEU:HD13	2.32	0.44
2:0F:83:TYR:HD1	2:0F:86:LEU:HD13	1.82	0.44
2:0F:176:GLN:HE22	2:0F:304:LYS:HE2	1.82	0.44
2:0H:21:TRP:CH2	2:0H:63:PRO:HB3	2.52	0.44
2:0J:116:ASP:N	2:0J:116:ASP:OD1	2.48	0.44
2:0J:210:TYR:HH	1:0K:323:THR:HG1	1.64	0.44
1:0K:130:LEU:HB2	1:0K:162:ARG:HD2	1.98	0.44
1:0K:395:LEU:HG	1:0K:399:THR:OG1	2.17	0.44
2:0L:69:ASP:O	2:0L:94:SER:HA	2.17	0.44
2:0L:307:PRO:HB2	2:0L:312:TYR:CE1	2.52	0.44
1:0O:117:LEU:O	1:0O:121:ARG:HB2	2.17	0.44
1:0S:21:TRP:CZ3	1:0S:61:PRO:HB3	2.53	0.44
1:0S:374:ILE:HG12	1:0S:378:PHE:CE2	2.52	0.44
2:0X:209:ILE:HG21	2:0X:227:LEU:HG	1.99	0.44
2:0Z:177:VAL:HG13	1:1A:327:ASP:HB3	1.99	0.44
2:1B:405:VAL:O	2:1B:409:VAL:HG23	2.17	0.44
1:1C:382:SER:HB2	1:1C:415:MET:HG2	1.99	0.44
1:1E:52:ASN:OD1	1:1E:62:ARG:NH2	2.41	0.44
2:1F:88:HIS:CD2	2:1F:90:GLU:H	2.35	0.44
2:1F:313:MET:HE2	2:1F:380:ASN:HD22	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1H:210:TYR:HA	2:1H:213:CYS:SG	2.57	0.44
2:1H:288:VAL:O	2:1H:292:THR:OG1	2.19	0.44
1:1Q:364:SER:OG	1:1Q:365:ALA:N	2.50	0.44
2:1R:250:VAL:HG23	2:1R:254:GLU:HG3	1.99	0.44
2:1T:330:ALA:O	2:1T:334:THR:HG23	2.16	0.44
2:1V:417:GLU:HA	2:1V:420:GLU:HG2	1.99	0.44
1:1W:244:GLY:HA2	1:1W:355:ASP:CG	2.38	0.44
1:2E:1:MET:O	1:2E:129:CYS:HB2	2.16	0.44
1:2E:137:HIS:ND1	1:2E:138:SER:O	2.48	0.44
2:2F:133:GLN:HB3	2:2F:252:ILE:HG21	1.98	0.44
1:2G:204:ASN:HD21	39:2G:502:GDP:N2	2.15	0.44
2:2H:123:ARG:NH2	38:8B:37:TYR:HB2	2.32	0.44
2:2H:185:TYR:CE1	2:2H:398:MET:HE3	2.53	0.44
1:2I:418:LEU:O	1:2I:422:TYR:HD2	2.00	0.44
2:2L:88:HIS:CE1	2:3B:280:LYS:HD2	2.52	0.44
2:2L:222:PRO:CD	1:2M:324:LYS:HE3	2.45	0.44
2:2N:123:ARG:NH2	38:8D:78:ASP:OD1	2.51	0.44
2:2R:116:ASP:OD1	2:2R:117:LEU:N	2.50	0.44
2:2R:271:SER:HB2	2:2R:377:MET:HB3	1.99	0.44
1:2S:324:LYS:NZ	38:8A:57:LEU:HD21	2.31	0.44
2:2V:137:VAL:HG22	2:2V:168:GLY:HA2	1.98	0.44
1:3C:275:SER:O	1:3C:279:GLN:HG3	2.17	0.44
2:3D:237:SER:HA	2:3D:320:ARG:HD2	1.99	0.44
1:3G:113:ILE:HD11	1:3G:151:LEU:HA	1.99	0.44
1:3K:34:GLY:HA3	1:3K:58:ARG:CD	2.46	0.44
1:3K:138:SER:HA	1:3K:169:VAL:HG22	1.99	0.44
1:3M:403:MET:HB2	1:3M:403:MET:HE2	1.76	0.44
2:3N:83:TYR:HB3	2:3N:86:LEU:HB3	1.98	0.44
2:3N:391:LEU:HD23	2:3N:391:LEU:HA	1.82	0.44
2:3P:3:GLU:HB2	2:3P:129:CYS:SG	2.58	0.44
2:3P:394:LYS:HB2	1:3Q:346:PRO:HG3	1.98	0.44
1:3Q:91:VAL:HG11	1:3Q:116:VAL:HG23	1.98	0.44
2:3R:75:VAL:HG21	2:3R:94:SER:CB	2.47	0.44
1:3S:389:PHE:O	1:3S:392:LYS:NZ	2.40	0.44
2:3T:195:LEU:HD21	2:3T:264:ARG:HD2	1.99	0.44
13:5H:99:ASN:HD22	13:5H:99:ASN:N	2.15	0.44
13:5I:70:LYS:HE2	13:5I:70:LYS:HB3	1.43	0.44
13:5K:99:ASN:HD22	13:5K:99:ASN:N	2.15	0.44
14:5L:319:TYR:CE2	14:5L:334:LEU:HB3	2.52	0.44
14:5L:399:SER:HG	14:5L:401:TRP:HE1	1.63	0.44
14:5L:531:ASP:OD1	14:5L:531:ASP:N	2.44	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:5M:218:VAL:O	14:5M:232:GLY:N	2.50	0.44
14:5M:399:SER:HG	14:5M:401:TRP:HE1	1.63	0.44
14:5N:319:TYR:CE2	14:5N:334:LEU:HB3	2.52	0.44
15:5P:264:GLU:OE2	15:5P:314:ARG:HA	2.16	0.44
15:5P:334:LEU:C	15:5P:334:LEU:CD2	2.85	0.44
16:5Q:94:ARG:HH11	16:5Q:166:PRO:HD2	1.82	0.44
17:5S:221:GLU:OE2	17:5S:222:ILE:N	2.50	0.44
17:5T:221:GLU:OE2	17:5T:222:ILE:N	2.50	0.44
17:5U:221:GLU:OE2	17:5U:222:ILE:N	2.50	0.44
18:5Y:70:TYR:HE1	18:5Y:85:THR:HG22	1.82	0.44
18:5Z:70:TYR:HE1	18:5Z:85:THR:HG22	1.82	0.44
18:6C:101:LYS:O	24:6Z:178:ASN:ND2	2.34	0.44
18:6D:70:TYR:HE1	18:6D:85:THR:HG22	1.82	0.44
22:6K:54:ARG:HG3	22:6K:55:THR:HG23	2.00	0.44
22:6K:162:LEU:HD11	22:6K:225:ALA:HB1	1.99	0.44
22:6K:342:ASP:O	22:6K:346:PHE:HB2	2.17	0.44
22:6N:188:ARG:HD3	22:6N:192:LYS:HB2	1.99	0.44
24:6T:454:ASP:OD2	24:6T:454:ASP:N	2.50	0.44
24:6U:40:GLN:HG3	24:6U:41:ARG:HG2	1.98	0.44
24:6U:536:ASP:OD1	24:6U:537:GLU:N	2.51	0.44
24:6V:124:TYR:N	24:6V:124:TYR:CD2	2.84	0.44
24:6W:11:LEU:HB3	24:6W:12:PRO:HD2	1.99	0.44
24:6W:512:TYR:CZ	24:6W:523:ILE:HG23	2.52	0.44
24:6X:253:PRO:HB2	24:6X:256:LEU:HB2	1.98	0.44
24:6X:562:LEU:O	24:6X:566:VAL:HG22	2.17	0.44
24:6Y:561:SER:O	24:6Y:565:GLN:HG3	2.17	0.44
26:7F:79:GLN:OE1	26:7F:87:HIS:HD2	2.00	0.44
28:7H:404:HIS:O	28:7H:405:ASN:C	2.55	0.44
34:7S:227:LYS:HB2	35:7U:181:LEU:HD21	1.98	0.44
37:7Y:94:ARG:NH1	37:7Y:117:GLN:NE2	2.65	0.44
38:8A:196:MET:CE	38:8A:201:LEU:CD2	2.94	0.44
1:7:280:GLN:HE22	1:T0:58:ARG:NH2	2.13	0.44
1:A3:262:ARG:HH12	3:4H:240:ARG:HH11	1.64	0.44
1:D4:320:ARG:HG3	18:6B:152:GLN:HG2	1.99	0.44
1:F6:216:LYS:C	24:6T:422:ASN:HD21	2.20	0.44
2:G3:250:VAL:HG23	2:G3:254:GLU:HG3	2.00	0.44
2:G3:320:ARG:O	2:G3:373:ARG:HA	2.17	0.44
1:G4:185:ALA:O	1:G4:189:VAL:HG23	2.17	0.44
1:G6:228:LEU:HD23	1:G6:228:LEU:HA	1.85	0.44
1:G8:26:ASP:O	1:G8:359:LYS:NZ	2.34	0.44
1:G8:116:VAL:HG23	1:G8:151:LEU:HD11	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G9:362:VAL:HG22	2:G9:363:VAL:O	2.18	0.44
1:H8:232:VAL:O	1:H8:236:ILE:HG12	2.17	0.44
1:H8:382:SER:HB3	1:H8:415:MET:HG2	1.99	0.44
2:I1:91:GLN:O	2:I1:93:ILE:HG12	2.17	0.44
1:I2:2:ARG:HB3	1:I2:131:GLN:HB2	1.99	0.44
2:I7:222:PRO:O	1:I8:322:SER:OG	2.28	0.44
2:I9:403:ALA:HB2	1:J0:344:TRP:HZ3	1.82	0.44
1:J0:386:THR:O	1:J0:390:ARG:HG3	2.16	0.44
2:J1:4:VAL:HG22	2:J1:133:GLN:HB2	1.99	0.44
2:J1:69:ASP:OD1	2:J1:70:LEU:N	2.47	0.44
2:J1:212:ILE:O	2:J1:216:SER:OG	2.34	0.44
1:J2:74:ASP:OD2	16:5Q:181:THR:CG2	2.64	0.44
1:J4:83:GLN:O	1:L0:281:TYR:OH	2.25	0.44
1:J4:131:GLN:HE21	1:J4:250:LEU:HB3	1.83	0.44
2:J5:151:SER:HB2	2:J5:193:SER:OG	2.17	0.44
2:J7:223:THR:HG23	2:J7:225:THR:H	1.82	0.44
1:J8:117:LEU:HD23	1:J8:117:LEU:HA	1.84	0.44
1:J8:359:LYS:HA	1:J8:359:LYS:HD2	1.73	0.44
2:J9:28:HIS:CE1	2:J9:49:PHE:HA	2.51	0.44
2:K1:221:ARG:NH1	2:K1:223:THR:OG1	2.50	0.44
2:K3:21:TRP:CZ2	2:K3:65:CYS:HB2	2.53	0.44
1:K6:138:SER:O	1:K6:139:LEU:HD23	2.17	0.44
2:K9:407:TRP:O	2:K9:411:GLU:HG2	2.17	0.44
1:L2:272:PRO:HB2	1:L2:282:ARG:HH12	1.82	0.44
1:L2:396:HIS:H	1:L2:396:HIS:CD2	2.33	0.44
1:L4:317:PHE:HE2	1:L4:326:VAL:HG13	1.81	0.44
1:L6:177:ASP:O	2:L7:352:LYS:HA	2.17	0.44
1:M0:396:HIS:HA	1:M0:399:THR:OG1	2.17	0.44
2:M3:69:ASP:OD1	2:M3:70:LEU:N	2.49	0.44
2:M3:76:ASP:HA	2:M3:79:ARG:HB2	1.98	0.44
2:M5:254:GLU:HB3	2:M5:352:LYS:HE2	1.99	0.44
2:M5:409:VAL:HA	2:M5:413:MET:O	2.16	0.44
1:M6:395:LEU:O	1:M6:399:THR:HG23	2.17	0.44
2:M7:201:ALA:O	2:M7:268:MET:HE2	2.16	0.44
2:M7:287:SER:H	2:M7:290:GLU:CD	2.20	0.44
2:N1:220:GLU:OE1	2:N1:220:GLU:N	2.50	0.44
2:N5:34:GLY:HA3	2:N5:60:LYS:NZ	2.33	0.44
1:N8:66:MET:HE1	1:N8:151:LEU:HD22	1.99	0.44
1:N8:101:TRP:HB2	1:N8:184:ASN:OD1	2.16	0.44
2:N9:80:THR:O	2:N9:80:THR:HG22	2.17	0.44
2:O1:18:ASN:HD21	37:7Y:242:LEU:HD11	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O2:132:GLY:HA2	1:O2:162:ARG:HB3	2.00	0.44
1:O4:4:ILE:HB	1:O4:50:TYR:HE2	1.81	0.44
1:O4:218:THR:HG23	19:6E:9:THR:HG21	1.97	0.44
2:O7:3:GLU:HB2	2:O7:129:CYS:SG	2.57	0.44
2:O9:217:LEU:HD22	2:O9:367:ASP:OD1	2.17	0.44
2:O9:384:ILE:HD12	2:O9:384:ILE:H	1.82	0.44
1:P4:131:GLN:HE21	1:P4:250:LEU:HB2	1.82	0.44
1:P4:198:GLU:HA	1:P4:264:HIS:HB2	1.98	0.44
1:P6:177:ASP:N	1:P6:181:GLU:OE2	2.50	0.44
2:P7:326:LYS:HE3	2:P7:326:LYS:HB3	1.82	0.44
1:P8:220:PRO:HD2	2:P9:326:LYS:HD3	1.98	0.44
2:Q1:27:GLU:OE2	2:Q1:243:ARG:NH2	2.49	0.44
1:Q2:51:PHE:O	1:Q2:62:ARG:NH2	2.50	0.44
1:Q4:68:LEU:HD12	1:Q4:97:ALA:HB2	2.00	0.44
2:Q5:33:ASP:O	2:Q5:60:LYS:NZ	2.49	0.44
1:Q6:26:ASP:O	1:Q6:359:LYS:NZ	2.29	0.44
1:Q6:101:TRP:HB2	1:Q6:184:ASN:OD1	2.17	0.44
1:Q6:193:VAL:HG13	1:Q6:194:GLU:HG3	1.99	0.44
2:R1:239:THR:HG23	2:R1:243:ARG:HE	1.83	0.44
2:R1:377:MET:SD	2:R1:379:SER:HB2	2.58	0.44
1:R2:92:PHE:CZ	24:6V:35:TYR:CE1	2.85	0.44
2:R7:238:LEU:HD22	2:R7:378:ILE:HD11	1.98	0.44
1:S0:309:ARG:O	1:S0:372:THR:HG22	2.17	0.44
2:S1:6:SER:O	2:S1:65:CYS:HA	2.16	0.44
2:S1:116:ASP:OD1	2:S1:156:ARG:NH2	2.51	0.44
1:S4:86:ARG:HG2	1:S4:88:ASP:H	1.82	0.44
1:S4:193:VAL:HG13	1:S4:194:GLU:OE1	2.18	0.44
1:S6:275:SER:O	1:S6:279:GLN:HG3	2.18	0.44
2:S9:102:ASN:ND2	2:S9:411:GLU:HG2	2.32	0.44
2:S9:223:THR:HG22	1:T0:322:SER:HA	2.00	0.44
2:S9:328:VAL:HG11	2:S9:355:ILE:HD11	1.99	0.44
1:T6:309:ARG:H	1:T6:372:THR:CG2	2.30	0.44
2:T7:242:LEU:HD11	2:T7:252:ILE:HB	1.99	0.44
1:T8:245:GLN:HG2	31:7N:29:GLU:OE2	2.17	0.44
2:U5:76:ASP:OD2	1:U6:46:ARG:NH2	2.50	0.44
2:U5:259:LEU:HD11	2:U5:316:CYS:HB2	2.00	0.44
1:V0:7:ILE:O	1:V0:135:VAL:HA	2.18	0.44
2:V1:32:PRO:HB3	2:V1:83:TYR:CE1	2.52	0.44
1:V6:177:ASP:O	2:V7:352:LYS:HA	2.17	0.44
1:V8:178:THR:OG1	1:V8:181:GLU:OE1	2.34	0.44
1:W2:31:ASP:HB2	1:W2:32:PRO:HD2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W3:11:GLN:OE1	2:W3:15:GLN:NE2	2.50	0.44
2:W5:279:GLU:OE2	2:W5:280:LYS:HG3	2.17	0.44
1:W6:190:HIS:HD2	1:W6:411:ALA:HA	1.76	0.44
1:W8:286:VAL:CG2	1:W8:287:PRO:HD3	2.46	0.44
2:W9:205:ASP:OD1	2:W9:303:VAL:HG13	2.17	0.44
2:W9:306:ASP:HB3	2:W9:309:HIS:HD2	1.81	0.44
2:W9:377:MET:HE3	2:W9:379:SER:HB3	1.98	0.44
1:X0:382:SER:HB3	1:X0:415:MET:HG2	2.00	0.44
1:X2:260:PHE:HB2	1:X2:263:LEU:HD23	1.99	0.44
1:X4:272:PRO:HA	1:X4:292:GLN:OE1	2.17	0.44
1:X6:14:ASN:OD1	1:X6:65:LEU:HD22	2.17	0.44
1:X6:284:LEU:HD23	1:X6:284:LEU:HA	1.84	0.44
1:Y2:263:LEU:HD22	1:Y2:422:TYR:CE1	2.52	0.44
1:Y8:206:ALA:HA	1:Y8:209:ASP:OD1	2.17	0.44
1:Y8:391:ARG:HG3	2:Y9:346:TRP:CG	2.52	0.44
1:Z2:8:GLN:HG3	1:Z2:65:LEU:HD23	1.98	0.44
1:Z2:65:LEU:HD11	1:Z2:76:VAL:HG11	1.99	0.44
1:Z4:272:PRO:HB2	1:Z4:282:ARG:HH12	1.82	0.44
1:Z6:321:MET:HE2	1:Z6:321:MET:HB3	1.82	0.44
2:Z7:101:ASN:ND2	1:Z8:256:ASN:OD1	2.49	0.44
2:Z7:398:MET:HE1	1:Z8:345:ILE:HG23	1.98	0.44
1:0C:306:ARG:HH22	1:0C:310:TYR:HE2	1.64	0.44
2:0J:12:ALA:HB2	41:0K:501:GTP:C8	2.51	0.44
1:0K:180:VAL:HG23	1:0K:184:ASN:ND2	2.33	0.44
1:0O:211:CYS:SG	1:0O:217:LEU:HB2	2.57	0.44
2:0P:5:ILE:HG22	2:0P:64:ARG:HB3	1.99	0.44
2:0R:193:SER:HA	2:0R:196:GLU:OE2	2.17	0.44
2:0R:398:MET:SD	1:0S:345:ILE:HG23	2.57	0.44
1:0S:152:ILE:HG23	1:0S:164:MET:SD	2.58	0.44
1:0U:244:GLY:N	1:0U:247:ASN:HD21	2.15	0.44
1:0U:274:THR:OG1	1:0U:282:ARG:NH1	2.50	0.44
2:0V:3:GLU:OE2	2:0V:131:GLY:N	2.50	0.44
1:0W:113:ILE:HD13	1:0W:150:LEU:HD22	1.99	0.44
1:0W:165:LEU:CD2	1:0W:250:LEU:HD11	2.46	0.44
2:0X:175:PRO:HB3	2:0X:390:ARG:HE	1.82	0.44
2:0Z:50:ASN:O	2:0Z:64:ARG:NH2	2.50	0.44
2:0Z:56:THR:HG23	2:0Z:60:LYS:CB	2.34	0.44
2:1B:413:MET:HB3	2:1B:417:GLU:OE2	2.17	0.44
2:1D:388:PHE:HD1	2:1D:391:LEU:HD21	1.82	0.44
1:1E:192:LEU:HD22	1:1E:265:PHE:CE1	2.52	0.44
1:1G:334:GLN:HE22	1:1G:348:ASN:N	2.10	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1H:398:MET:HA	2:1H:401:LYS:HE2	2.00	0.44
2:1L:201:ALA:O	2:1L:268:MET:HE2	2.18	0.44
2:1R:56:THR:O	2:1R:60:LYS:HB3	2.17	0.44
2:1T:109:THR:OG1	2:1T:411:GLU:OE2	2.31	0.44
1:1W:385:PHE:HZ	1:1W:408:PHE:HD1	1.64	0.44
2:1X:9:ILE:HG12	2:1X:68:LEU:HD11	1.99	0.44
2:1Z:428:LEU:HA	2:1Z:431:ASP:OD1	2.17	0.44
2:2D:223:THR:HG23	2:2D:225:THR:H	1.82	0.44
2:2F:21:TRP:CZ3	2:2F:63:PRO:HB3	2.52	0.44
2:2H:14:ILE:HD11	2:2H:74:VAL:HG13	1.99	0.44
2:2J:211:ASP:OD1	2:2J:214:ARG:NH2	2.42	0.44
2:2L:98:ASP:OD1	2:2L:99:ALA:N	2.50	0.44
1:2M:395:LEU:O	1:2M:399:THR:HG23	2.17	0.44
2:2N:288:VAL:O	2:2N:292:THR:OG1	2.28	0.44
1:2Q:209:ASP:OD2	38:8A:105:ARG:HA	2.17	0.44
2:2R:90:GLU:HB3	2:3H:283:HIS:CE1	2.52	0.44
2:2R:238:LEU:HD11	2:2R:255:PHE:CZ	2.52	0.44
1:2U:86:ARG:HG2	1:2U:88:ASP:H	1.82	0.44
1:2U:172:SER:OG	1:2U:205:GLU:OE1	2.18	0.44
1:2U:299:MET:N	38:8B:105:ARG:HH22	2.14	0.44
2:2V:109:THR:HA	2:2V:112:LYS:NZ	2.31	0.44
2:2V:183:GLU:HG3	2:2V:184:PRO:HD3	1.99	0.44
1:2Y:3:GLU:HB2	1:2Y:130:LEU:HA	1.98	0.44
2:2Z:341:ILE:HG23	38:8C:74:ILE:HD11	1.99	0.44
1:3A:178:THR:CG2	1:3A:181:GLU:HG3	2.47	0.44
1:3A:297:LYS:HB3	1:3A:297:LYS:HE3	1.79	0.44
1:3C:167:PHE:CZ	1:3C:233:MET:HG2	2.52	0.44
1:3C:173:PRO:HD2	1:3C:380:ARG:NE	2.31	0.44
1:3C:177:ASP:O	2:3D:352:LYS:HA	2.17	0.44
2:3J:278:ALA:HA	2:3J:369:ALA:HB2	1.99	0.44
1:3K:130:LEU:HB2	1:3K:162:ARG:HE	1.82	0.44
1:3K:170:VAL:HG21	1:3K:377:MET:SD	2.58	0.44
1:3K:203:ASP:N	1:3K:203:ASP:OD1	2.49	0.44
1:3K:317:PHE:HB3	1:3K:321:MET:SD	2.57	0.44
2:3L:76:ASP:HA	2:3L:79:ARG:HB2	1.98	0.44
1:3M:244:GLY:H	1:3M:247:ASN:HD21	1.65	0.44
2:3N:265:ILE:CD1	2:3N:435:VAL:HG21	2.47	0.44
2:3R:3:GLU:HB2	2:3R:129:CYS:SG	2.57	0.44
2:3R:246:GLY:HA3	2:3R:356:ASN:HA	2.00	0.44
2:3R:402:ARG:HA	2:3R:402:ARG:HD3	1.76	0.44
1:3S:415:MET:O	1:3S:418:LEU:HG	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3T:288:VAL:CG2	2:3T:327:ASP:HB2	2.43	0.44
3:4J:101:LYS:HA	3:4J:102:PRO:HD3	1.84	0.44
3:4J:178:LYS:HA	3:4J:178:LYS:HD2	1.80	0.44
3:4J:191:ILE:HD11	3:4J:228:ALA:CB	2.47	0.44
7:4R:83:ASP:OD1	7:4R:84:THR:N	2.50	0.44
10:5B:314:LYS:HD2	10:5B:317:ILE:HD11	1.98	0.44
14:5L:24:HIS:CG	14:5L:25:PRO:HD2	2.51	0.44
14:5M:319:TYR:CE2	14:5M:334:LEU:HB3	2.52	0.44
14:5N:190:LEU:HD11	14:5N:228:PHE:HB3	1.99	0.44
14:5N:531:ASP:N	14:5N:531:ASP:OD1	2.44	0.44
15:5O:331:ASP:CG	30:7K:241:LYS:HE2	2.38	0.44
17:5T:82:LYS:HA	17:5T:82:LYS:HD3	1.77	0.44
17:5U:82:LYS:HA	17:5U:82:LYS:HD3	1.77	0.44
17:5U:174:SER:OG	17:5U:175:PRO:CD	2.65	0.44
18:5X:125:ARG:NH1	18:5X:201:ALA:O	2.50	0.44
18:5X:216:ALA:O	18:5X:220:THR:HG22	2.18	0.44
18:6A:216:ALA:O	18:6A:220:THR:HG22	2.18	0.44
18:6D:216:ALA:O	18:6D:220:THR:HG22	2.18	0.44
20:6F:237:CYS:SG	20:6F:238:LEU:N	2.90	0.44
20:6F:394:ARG:HH12	33:7Q:185:ARG:CZ	2.30	0.44
22:6P:145:SER:HB2	22:6P:148:ASN:CG	2.37	0.44
23:6R:52:LEU:HD23	23:6R:52:LEU:C	2.38	0.44
23:6S:65:LEU:HD12	23:6S:65:LEU:HA	1.80	0.44
24:6T:481:LEU:HD23	24:6T:481:LEU:H	1.83	0.44
24:6U:88:TRP:HA	24:6U:126:GLU:HG3	1.99	0.44
24:6U:481:LEU:HB2	24:6U:500:ARG:HB3	1.99	0.44
24:6X:315:ARG:CG	24:6X:315:ARG:NH1	2.72	0.44
24:6Y:106:VAL:HG22	24:6Y:107:VAL:H	1.81	0.44
24:6Z:11:LEU:HD12	24:6Z:14:TYR:CE2	2.52	0.44
26:7D:30:PHE:HA	26:7D:98:LEU:HD11	1.99	0.44
26:7D:79:GLN:OE1	26:7D:87:HIS:HD2	2.00	0.44
30:7L:316:GLU:HG2	30:7L:319:ARG:HH12	1.82	0.44
35:7T:173:ILE:HA	35:7T:176:ASN:HD22	1.82	0.44
37:7Y:139:ARG:O	37:7Y:140:SER:HB3	2.16	0.44
38:8D:64:ASP:OD2	38:8D:65:VAL:N	2.50	0.44
1:9:219:THR:OG1	26:7E:142:PHE:CE2	2.60	0.44
2:A2:279:GLU:CG	26:7F:82:PRO:HG2	2.47	0.44
2:C9:12:ALA:HB2	41:C9:501:GTP:C8	2.53	0.44
2:G3:223:THR:HG23	2:G3:225:THR:H	1.82	0.44
1:G4:272:PRO:HD3	1:G4:364:SER:HA	1.99	0.44
1:G4:292:GLN:HG2	1:G4:298:ASN:HD22	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G5:280:LYS:HB3	2:G5:284:GLU:OE1	2.17	0.44
1:G6:237:THR:HG23	1:G6:241:ARG:HH21	1.82	0.44
2:G7:53:PHE:HB3	2:G7:61:HIS:HB3	2.00	0.44
1:G8:407:GLU:O	1:G8:410:GLU:HG2	2.17	0.44
1:H2:180:VAL:HG23	1:H2:184:ASN:ND2	2.32	0.44
2:H5:317:LEU:HB3	2:H5:319:TYR:HE1	1.81	0.44
1:H6:4:ILE:HB	1:H6:50:TYR:HE1	1.83	0.44
2:H7:9:ILE:HG22	2:H7:146:GLY:HA2	2.00	0.44
2:H7:223:THR:OG1	2:H7:224:TYR:N	2.50	0.44
2:H7:430:LYS:O	2:H7:434:GLU:HG2	2.17	0.44
1:H8:221:THR:HG23	1:H8:223:GLY:H	1.82	0.44
2:I5:65:CYS:SG	2:I5:66:ILE:N	2.90	0.44
2:I5:90:GLU:O	2:I5:121:ARG:NH1	2.32	0.44
2:J1:204:LEU:HD13	2:J1:302:MET:HB3	1.98	0.44
1:J2:46:ARG:HD3	1:J2:46:ARG:HA	1.81	0.44
1:J2:167:PHE:HE1	1:J2:200:MET:SD	2.41	0.44
2:J3:65:CYS:SG	2:J3:66:ILE:N	2.90	0.44
1:J6:189:VAL:O	1:J6:193:VAL:HG23	2.18	0.44
1:J6:309:ARG:NH1	1:J6:343:GLU:OE2	2.50	0.44
2:K1:70:LEU:HD22	2:K1:110:ILE:HD12	1.99	0.44
1:K4:167:PHE:CE2	1:K4:233:MET:HG2	2.53	0.44
1:K6:21:TRP:CZ3	1:K6:61:PRO:HB3	2.52	0.44
1:K6:68:LEU:HD21	1:K6:112:LEU:HD22	1.99	0.44
2:K7:259:LEU:HD11	2:K7:316:CYS:HB2	2.00	0.44
1:K8:21:TRP:O	1:K8:25:SER:OG	2.27	0.44
1:K8:345:ILE:O	1:K8:348:ASN:ND2	2.48	0.44
2:L5:66:ILE:O	2:L5:66:ILE:HG13	2.17	0.44
1:L6:167:PHE:HE1	1:L6:200:MET:SD	2.40	0.44
2:L7:17:GLY:HA2	2:L7:20:CYS:HB3	2.00	0.44
1:M6:1:MET:HE1	37:7Y:116:MET:CB	2.36	0.44
1:M6:183:TYR:HE2	1:M6:394:PHE:HB2	1.82	0.44
1:N2:225:LEU:HD12	1:N2:225:LEU:H	1.82	0.44
2:N3:137:VAL:HG22	2:N3:168:GLY:HA2	1.98	0.44
2:N3:313:MET:CE	2:N3:382:THR:HG23	2.47	0.44
2:N3:414:GLU:HG2	2:N3:415:GLU:N	2.32	0.44
2:N5:172:TYR:CE2	2:N5:203:MET:SD	3.10	0.44
2:O1:9:ILE:HD13	2:O1:150:GLY:HA2	1.98	0.44
2:O1:177:VAL:HG13	1:O2:327:ASP:HB3	1.99	0.44
2:O5:324:VAL:HG13	2:O5:326:LYS:H	1.82	0.44
2:O9:143:GLY:O	2:O9:147:SER:OG	2.20	0.44
2:P3:102:ASN:ND2	2:P3:105:ARG:HB2	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P3:210:TYR:OH	2:P3:224:TYR:HE1	2.00	0.44
2:P3:338:LYS:HA	2:P3:338:LYS:HD2	1.67	0.44
1:P4:343:GLU:HG3	1:P4:344:TRP:N	2.33	0.44
2:P7:9:ILE:CG1	2:P7:139:ASN:HB3	2.46	0.44
2:Q1:174:SER:HB3	2:Q1:177:VAL:O	2.16	0.44
2:Q1:259:LEU:HD11	2:Q1:316:CYS:HB2	1.99	0.44
2:Q3:15:GLN:HB3	2:Q3:228:ASN:HD21	1.81	0.44
2:Q3:191:THR:HA	2:Q3:194:LEU:HB3	1.98	0.44
2:Q9:79:ARG:O	2:Q9:84:ARG:HG2	2.17	0.44
2:Q9:165:SER:HB3	2:Q9:256:GLN:NE2	2.31	0.44
1:R0:212:PHE:CE1	1:R0:220:PRO:HG3	2.53	0.44
1:R2:117:LEU:HD23	1:R2:117:LEU:HA	1.73	0.44
2:R3:335:ILE:HG23	2:R3:341:ILE:HD11	1.99	0.44
1:R8:95:THR:HG23	1:R8:96:GLY:N	2.32	0.44
1:R8:117:LEU:HA	1:R8:117:LEU:HD23	1.80	0.44
1:S0:210:ILE:O	1:S0:214:THR:OG1	2.31	0.44
1:S6:198:GLU:HB3	1:S6:258:ILE:HD11	1.99	0.44
2:S7:384:ILE:HG22	2:S7:388:PHE:CE2	2.52	0.44
2:S9:105:ARG:HA	2:S9:411:GLU:HG3	2.00	0.44
2:T1:118:ALA:O	2:T1:122:ILE:HG13	2.17	0.44
1:T2:44:LEU:O	1:T2:47:ILE:HG12	2.18	0.44
1:T2:100:ASN:HB3	1:T2:103:LYS:HB2	2.00	0.44
2:T3:175:PRO:HB3	2:T3:390:ARG:NE	2.32	0.44
1:T6:1:MET:CE	26:7F:67:GLN:NE2	2.80	0.44
1:T6:68:LEU:HD13	1:T6:108:GLU:HG2	2.00	0.44
2:T7:343:PHE:HE2	2:T7:350:GLY:HA3	1.83	0.44
2:U1:286:LEU:HD12	2:U1:290:GLU:OE2	2.17	0.44
1:U2:273:LEU:HD23	1:U2:273:LEU:HA	1.82	0.44
2:U3:222:PRO:CD	1:U4:324:LYS:HE3	2.48	0.44
1:U6:189:VAL:O	1:U6:193:VAL:HG13	2.17	0.44
1:U8:6:HIS:CE1	1:U8:8:GLN:HE21	2.35	0.44
2:U9:167:LEU:HD22	2:U9:200:VAL:HB	1.99	0.44
2:U9:183:GLU:HG3	2:U9:184:PRO:HD3	2.00	0.44
2:V1:154:LEU:HD23	2:V1:154:LEU:HA	1.77	0.44
1:V6:208:TYR:CE1	1:V6:225:LEU:HD11	2.53	0.44
1:V8:221:THR:OG1	1:V8:222:PHE:N	2.50	0.44
2:V9:129:CYS:SG	2:V9:130:THR:N	2.90	0.44
1:W2:199:CYS:HG	1:W2:265:PHE:HD1	1.66	0.44
1:W4:273:LEU:H	1:W4:292:GLN:HE22	1.65	0.44
2:W5:108:TYR:O	2:W5:112:LYS:HG2	2.17	0.44
2:W5:271:SER:OG	2:W5:377:MET:HB3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W6:21:TRP:CZ3	1:W6:61:PRO:HB3	2.53	0.44
1:W6:133:PHE:HB2	1:W6:164:MET:SD	2.58	0.44
2:W9:139:ASN:N	2:W9:139:ASN:OD1	2.50	0.44
1:X2:320:ARG:HH22	1:X2:357:PRO:CG	2.30	0.44
2:X3:21:TRP:CZ3	2:X3:63:PRO:HB3	2.52	0.44
2:X3:32:PRO:HB3	2:X3:83:TYR:CE1	2.53	0.44
2:X5:239:THR:O	2:X5:239:THR:HG22	2.17	0.44
1:X6:190:HIS:HD2	1:X6:414:ASN:ND2	2.16	0.44
2:X7:5:ILE:HD11	2:X7:135:PHE:CE1	2.52	0.44
2:X7:83:TYR:HB3	2:X7:86:LEU:HB3	1.99	0.44
2:X7:413:MET:HB3	2:X7:417:GLU:OE2	2.17	0.44
1:X8:183:TYR:O	1:X8:187:LEU:HD13	2.18	0.44
2:X9:23:LEU:HD11	2:X9:233:GLN:NE2	2.32	0.44
2:Y1:322:ASP:OD2	2:Y1:373:ARG:NH2	2.50	0.44
1:Y4:105:HIS:NE2	1:Y4:150:LEU:HD13	2.32	0.44
1:Y4:266:PHE:CE1	1:Y4:370:ASN:HB2	2.52	0.44
1:Y4:317:PHE:HB3	1:Y4:321:MET:CE	2.47	0.44
1:Y8:286:VAL:HG22	1:Y8:287:PRO:HD3	1.99	0.44
2:Y9:305:CYS:SG	2:Y9:306:ASP:N	2.88	0.44
2:Z1:326:LYS:NZ	2:Z1:327:ASP:OD1	2.45	0.44
1:Z2:211:CYS:SG	1:Z2:220:PRO:HB3	2.58	0.44
2:Z5:254:GLU:HB3	2:Z5:352:LYS:HE2	1.99	0.44
2:Z5:280:LYS:O	2:Z5:283:HIS:HB3	2.17	0.44
1:Z8:182:PRO:HB2	1:Z8:385:PHE:HD1	1.81	0.44
1:OE:66:MET:CE	1:OE:112:LEU:HD21	2.46	0.44
2:OF:80:THR:HG22	2:OF:80:THR:O	2.18	0.44
1:OG:304:ASP:OD2	1:OG:306:ARG:NH2	2.50	0.44
2:OH:297:GLU:HG2	2:OH:298:PRO:HD2	1.98	0.44
2:OH:398:MET:HG2	1:OI:345:ILE:HA	2.00	0.44
1:OI:117:LEU:O	1:OI:121:ARG:HB2	2.17	0.44
1:OM:259:PRO:HG3	1:OM:311:LEU:HD21	1.98	0.44
2:ON:234:VAL:HG22	2:ON:272:TYR:CD2	2.53	0.44
2:ON:297:GLU:HG2	2:ON:298:PRO:HD2	1.98	0.44
2:ON:398:MET:SD	1:OO:345:ILE:HG23	2.58	0.44
1:OO:55:THR:HG23	1:IE:282:ARG:O	2.17	0.44
1:OO:61:PRO:HG2	1:OO:85:PHE:CE1	2.52	0.44
2:OP:56:THR:HG23	2:1F:285:GLN:HB2	1.99	0.44
2:OP:286:LEU:HG	2:OP:373:ARG:NH1	2.32	0.44
2:OP:405:VAL:O	2:OP:409:VAL:HG23	2.17	0.44
2:OR:177:VAL:HG21	2:OR:207:GLU:HB3	1.99	0.44
2:OR:280:LYS:HA	2:OR:283:HIS:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0S:103:LYS:C	1:0S:103:LYS:HD3	2.38	0.44
2:0X:227:LEU:O	2:0X:231:ILE:HG12	2.17	0.44
1:1A:256:ASN:HD22	1:1A:350:LYS:HB2	1.81	0.44
1:1C:173:PRO:HG2	1:1C:380:ARG:HE	1.82	0.44
1:1C:324:LYS:HA	1:1C:327:ASP:OD1	2.17	0.44
1:1C:396:HIS:CD2	1:1C:396:HIS:N	2.85	0.44
1:1K:304:ASP:OD2	1:1K:306:ARG:NH2	2.50	0.44
1:1K:415:MET:O	1:1K:419:VAL:HG22	2.17	0.44
2:1L:298:PRO:HA	2:1L:301:MET:HG3	1.99	0.44
1:1M:246:LEU:HD22	1:1M:352:SER:HA	1.98	0.44
2:1N:223:THR:HG22	2:1N:224:TYR:N	2.31	0.44
2:1P:100:ALA:HA	1:1Q:252:LYS:HE3	1.99	0.44
2:1V:141:VAL:O	2:1V:147:SER:OG	2.35	0.44
2:1Z:108:TYR:HA	2:1Z:112:LYS:NZ	2.32	0.44
1:2C:4:ILE:HB	1:2C:50:TYR:HE1	1.83	0.44
2:2D:352:LYS:NZ	2:2D:353:CYS:O	2.50	0.44
2:2F:328:VAL:O	2:2F:332:VAL:HG22	2.17	0.44
2:2F:425:LEU:HD23	2:2F:425:LEU:HA	1.82	0.44
2:2H:9:ILE:HG22	2:2H:146:GLY:HA2	1.98	0.44
1:2K:5:VAL:HG12	1:2K:133:PHE:HD1	1.83	0.44
1:2K:176:SER:OG	2:2L:349:THR:OG1	2.23	0.44
1:2W:77:ARG:HD2	1:2W:77:ARG:HA	1.76	0.44
1:2Y:404:ASP:HB3	1:2Y:406:MET:SD	2.57	0.44
2:2Z:214:ARG:NH2	38:8C:61:LYS:HA	2.30	0.44
1:3A:54:ALA:HB3	1:3A:58:ARG:O	2.17	0.44
1:3A:67:ASP:CG	1:3A:68:LEU:H	2.21	0.44
2:3B:282:TYR:CD2	2:3B:282:TYR:N	2.85	0.44
2:3B:358:GLN:NE2	38:8D:212:PRO:CB	2.81	0.44
2:3B:425:LEU:HD23	2:3B:425:LEU:HA	1.78	0.44
1:3C:161:ASP:OD2	1:3C:162:ARG:NH1	2.51	0.44
2:3D:2:ARG:HD2	2:3D:242:LEU:HD22	1.98	0.44
2:3J:283:HIS:CD2	2:3J:284:GLU:HB2	2.51	0.44
2:3J:417:GLU:HA	2:3J:420:GLU:HG2	1.99	0.44
1:3K:167:PHE:CE2	1:3K:233:MET:HG2	2.51	0.44
1:3K:354:CYS:SG	1:3K:355:ASP:N	2.90	0.44
1:3Q:263:LEU:HD21	1:3Q:311:LEU:HD22	1.98	0.44
1:3Q:273:LEU:H	1:3Q:292:GLN:NE2	2.16	0.44
1:3Q:395:LEU:O	1:3Q:399:THR:HG23	2.16	0.44
2:3R:287:SER:OG	2:3R:290:GLU:OE1	2.33	0.44
1:3S:183:TYR:HB3	1:3S:398:TYR:HE2	1.82	0.44
2:3T:390:ARG:HG2	2:3T:394:LYS:HZ1	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4B:44:ALA:HB3	3:4B:116:PRO:HG3	1.99	0.44
3:4J:132:ILE:HD11	3:4J:161:PHE:CZ	2.52	0.44
5:4L:327:LYS:HA	5:4L:330:GLU:OE1	2.17	0.44
5:4L:340:LEU:HG	5:4L:344:LEU:HD23	1.99	0.44
5:4M:300:GLU:O	5:4M:303:GLU:HG3	2.17	0.44
6:4P:67:LYS:HG3	20:6F:244:PRO:O	2.17	0.44
7:4R:104:ARG:HE	7:4R:110:LEU:HD12	1.82	0.44
7:4U:13:PRO:HG2	7:4U:14:GLU:OE2	2.17	0.44
8:4V:460:ALA:O	8:4V:463:THR:OG1	2.33	0.44
10:5A:458:ARG:HB3	10:5A:458:ARG:HH11	1.82	0.44
12:5F:295:ARG:NH2	12:5F:325:ASP:OD2	2.50	0.44
14:5L:512:PHE:N	14:5L:512:PHE:HD2	2.14	0.44
14:5M:24:HIS:CG	14:5M:25:PRO:HD2	2.51	0.44
14:5N:24:HIS:CG	14:5N:25:PRO:HD2	2.51	0.44
14:5N:354:GLU:OE1	14:5N:354:GLU:N	2.48	0.44
14:5N:514:LYS:HD2	14:5N:530:THR:HG22	1.98	0.44
15:5P:52:TYR:CE2	15:5P:55:LEU:HD21	2.52	0.44
15:5P:333:GLU:HA	15:5P:336:ARG:NH1	2.32	0.44
18:5Y:125:ARG:NH1	18:5Y:201:ALA:O	2.50	0.44
18:5Y:216:ALA:O	18:5Y:220:THR:HG22	2.18	0.44
18:5Z:125:ARG:NH1	18:5Z:201:ALA:O	2.50	0.44
18:5Z:216:ALA:O	18:5Z:220:THR:HG22	2.18	0.44
18:6A:125:ARG:NH1	18:6A:201:ALA:O	2.50	0.44
18:6B:125:ARG:NH1	18:6B:201:ALA:O	2.50	0.44
18:6B:216:ALA:O	18:6B:220:THR:HG22	2.18	0.44
18:6C:125:ARG:NH1	18:6C:201:ALA:O	2.50	0.44
18:6C:216:ALA:O	18:6C:220:THR:HG22	2.18	0.44
18:6D:125:ARG:NH1	18:6D:201:ALA:O	2.50	0.44
22:6I:10:PHE:HB3	22:6I:15:TRP:CD1	2.52	0.44
22:6I:275:LEU:HD13	22:6I:328:THR:HG21	1.99	0.44
22:6J:16:LYS:HD3	22:6J:20:TYR:CD2	2.53	0.44
22:6L:62:SER:O	22:6L:62:SER:OG	2.29	0.44
22:6N:130:LEU:O	22:6N:209:ASN:ND2	2.51	0.44
22:6O:308:HIS:CD2	24:6Z:560:ARG:HH12	2.35	0.44
24:6U:558:LEU:HD11	24:6U:612:LEU:HD13	2.00	0.44
24:6U:573:VAL:HG12	24:6U:600:ALA:HB1	1.98	0.44
24:7A:218:GLY:O	24:7A:221:ARG:NE	2.49	0.44
25:7C:20:ARG:C	25:7C:20:ARG:HD2	2.38	0.44
26:7E:30:PHE:HA	26:7E:98:LEU:HD11	1.99	0.44
26:7E:79:GLN:OE1	26:7E:87:HIS:HD2	2.01	0.44
29:7J:140:GLU:HA	29:7J:143:ARG:HG3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:7K:111:LEU:HD23	30:7K:111:LEU:HA	1.82	0.44
37:7Y:50:LEU:HB3	37:7Y:61:VAL:HG22	1.99	0.44
37:7Y:54:ARG:HB3	37:7Y:57:GLN:HB2	1.98	0.44
38:8A:170:PHE:HE1	38:8A:174:SER:HB3	1.82	0.44
38:8D:76:ASP:OD2	38:8D:77:LYS:N	2.49	0.44
1:5:33:THR:OG1	18:5Y:100:GLU:OE1	2.36	0.44
2:A4:396:ASP:OD2	4:4I:53:ASN:ND2	2.49	0.44
2:E7:282:TYR:HH	22:6L:81:ASN:CA	2.19	0.44
1:F0:177:ASP:OD2	39:F0:502:GDP:H3'	2.17	0.44
2:G3:221:ARG:HB3	1:G4:322:SER:OG	2.18	0.44
1:G4:95:THR:OG1	1:G4:96:GLY:N	2.50	0.44
2:G5:9:ILE:HG13	2:G5:9:ILE:O	2.17	0.44
1:G6:48:ASN:OD1	1:G6:48:ASN:N	2.51	0.44
1:G8:202:LEU:HD13	1:G8:300:MET:HB3	2.00	0.44
2:G9:305:CYS:HB2	2:G9:387:ILE:HD11	1.99	0.44
2:H5:155:GLU:HB2	2:H5:197:HIS:CE1	2.52	0.44
2:H5:188:VAL:O	2:H5:191:THR:HG22	2.17	0.44
1:H8:91:VAL:HG11	1:H8:116:VAL:HG23	2.00	0.44
1:I2:26:ASP:O	1:I2:359:LYS:NZ	2.33	0.44
1:I2:95:THR:HG23	1:I2:96:GLY:N	2.33	0.44
1:I2:172:SER:HB3	1:I2:175:VAL:HG22	1.99	0.44
1:I2:208:TYR:HA	1:I2:211:CYS:SG	2.57	0.44
2:I7:58:ALA:HB1	6:4N:474:PRO:HB3	1.98	0.44
2:I7:88:HIS:CE1	2:K3:283:HIS:HA	2.52	0.44
2:I7:198:THR:HG21	2:I7:201:ALA:HB2	2.00	0.44
2:I7:271:SER:OG	2:I7:301:MET:HA	2.17	0.44
2:I9:21:TRP:CZ2	2:I9:65:CYS:HB3	2.53	0.44
2:I9:217:LEU:HB3	2:I9:219:ILE:CD1	2.48	0.44
1:J0:152:ILE:HD12	1:J0:164:MET:SD	2.58	0.44
2:J1:326:LYS:HG3	2:J1:327:ASP:N	2.32	0.44
2:J5:187:SER:HB2	2:J5:391:LEU:HD21	1.98	0.44
2:J7:83:TYR:HB3	2:J7:86:LEU:HB3	1.99	0.44
1:J8:176:SER:HB3	2:J9:349:THR:OG1	2.17	0.44
1:J8:373:ALA:O	1:J8:376:GLU:HG3	2.17	0.44
2:J9:39:ASP:N	2:J9:39:ASP:OD2	2.51	0.44
2:J9:74:VAL:O	2:J9:77:GLU:HG3	2.18	0.44
1:K4:316:LEU:HB2	1:K4:366:THR:OG1	2.17	0.44
2:K5:155:GLU:HB2	2:K5:197:HIS:CE1	2.53	0.44
2:K5:367:ASP:OD2	2:K5:367:ASP:N	2.49	0.44
2:K9:90:GLU:CB	2:K9:121:ARG:HH12	2.30	0.44
2:K9:96:LYS:HG2	1:L0:1:MET:HE2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K9:397:LEU:HD23	2:K9:397:LEU:HA	1.80	0.44
2:L1:66:ILE:HD11	2:L1:122:ILE:HD11	2.00	0.44
2:L3:276:ILE:HD13	2:L3:281:ALA:HA	1.95	0.44
1:L4:31:ASP:OD2	1:L4:35:THR:OG1	2.36	0.44
2:L5:417:GLU:HA	2:L5:420:GLU:HG2	1.99	0.44
1:L6:307:HIS:NE2	34:7S:129:ARG:HD3	2.33	0.44
1:L6:391:ARG:HH22	2:L7:435:VAL:HA	1.82	0.44
2:L9:72:PRO:HD2	1:M0:2:ARG:HH12	1.83	0.44
1:M0:87:PRO:HD2	2:N7:283:HIS:HB2	1.99	0.44
1:M0:320:ARG:HD3	30:7K:306:PRO:HG3	1.99	0.44
2:M3:39:ASP:N	2:M3:39:ASP:OD1	2.49	0.44
2:M7:88:HIS:C	1:O4:281:TYR:OH	2.55	0.44
2:N3:271:SER:N	2:N3:377:MET:O	2.48	0.44
2:N5:114:ILE:HG21	2:N5:149:LEU:HD22	1.99	0.44
2:N5:116:ASP:OD2	2:N5:117:LEU:N	2.48	0.44
2:N5:244:PHE:HB3	32:7O:87:ASP:OD1	2.17	0.44
1:N6:244:GLY:HA2	1:N6:355:ASP:CG	2.38	0.44
2:N9:12:ALA:HB2	41:O0:501:GTP:C8	2.52	0.44
2:N9:108:TYR:O	2:N9:112:LYS:HG2	2.18	0.44
1:O0:361:LEU:HD23	1:O0:361:LEU:HA	1.82	0.44
1:O0:403:MET:HE3	1:O0:403:MET:HB2	1.80	0.44
2:O5:167:LEU:HD13	2:O5:200:VAL:HB	2.00	0.44
2:P3:286:LEU:CD2	2:P3:371:VAL:HG13	2.46	0.44
1:P4:135:VAL:HG12	1:P4:137:HIS:HD2	1.83	0.44
1:P6:317:PHE:HB3	1:P6:321:MET:SD	2.58	0.44
1:Q0:178:THR:HG22	2:Q1:258:ASN:HD21	1.82	0.44
1:Q2:117:LEU:HA	1:Q2:117:LEU:HD23	1.77	0.44
1:Q2:176:SER:HB3	2:Q3:349:THR:HG21	1.97	0.44
1:Q4:86:ARG:HG3	1:S0:281:TYR:HB3	1.99	0.44
1:Q4:149:THR:HB	1:Q4:191:GLN:HG2	1.99	0.44
1:Q8:107:THR:OG1	1:Q8:401:GLU:OE2	2.21	0.44
1:Q8:154:LYS:HD3	1:Q8:154:LYS:HA	1.82	0.44
2:Q9:405:VAL:HG21	17:5S:112:VAL:HG11	1.98	0.44
1:R2:327:ASP:OD1	1:R2:328:GLU:N	2.51	0.44
2:R3:14:ILE:HD11	2:R3:74:VAL:HG13	2.00	0.44
2:R9:246:GLY:O	7:4R:260:LYS:NZ	2.44	0.44
1:S2:190:HIS:NE2	1:S2:410:GLU:OE2	2.50	0.44
1:S2:232:VAL:O	1:S2:236:ILE:HG12	2.17	0.44
2:S7:271:SER:HB3	2:S7:377:MET:HB3	1.98	0.44
1:S8:128:ASP:OD1	1:S8:129:CYS:N	2.46	0.44
1:S8:178:THR:OG1	1:S8:181:GLU:HG3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S8:290:THR:HG21	1:S8:329:GLN:HE21	1.82	0.44
2:S9:3:GLU:HB2	2:S9:129:CYS:SG	2.58	0.44
2:S9:143:GLY:HA3	41:S9:501:GTP:PB	2.57	0.44
1:T0:128:ASP:N	1:T0:128:ASP:OD1	2.50	0.44
2:T1:198:THR:HG23	2:T1:266:HIS:HE1	1.82	0.44
1:T2:307:HIS:CE1	13:5J:8:GLU:HB3	2.53	0.44
1:T4:253:LEU:HD23	1:T4:253:LEU:HA	1.78	0.44
2:T5:217:LEU:HB3	2:T5:219:ILE:HD12	1.99	0.44
2:T7:56:THR:HG23	2:T7:60:LYS:HB3	1.98	0.44
2:T7:121:ARG:HA	2:T7:121:ARG:HD2	1.70	0.44
1:T8:418:LEU:O	1:T8:421:GLU:HG2	2.18	0.44
1:U2:244:GLY:H	1:U2:247:ASN:HD21	1.63	0.44
2:U3:222:PRO:HD2	1:U4:324:LYS:HE3	1.99	0.44
2:U5:267:PHE:HB2	2:U5:384:ILE:HD12	1.98	0.44
2:U7:203:MET:C	2:U7:204:LEU:HD12	2.38	0.44
1:U8:21:TRP:CZ3	1:U8:61:PRO:HB3	2.53	0.44
2:V1:216:SER:O	2:V1:280:LYS:NZ	2.49	0.44
1:V2:6:HIS:CE1	1:V2:8:GLN:HG2	2.53	0.44
1:V2:183:TYR:HB3	1:V2:398:TYR:HE2	1.81	0.44
1:V2:270:PHE:HD2	1:V2:273:LEU:HD21	1.83	0.44
2:V3:68:LEU:HA	2:V3:93:ILE:O	2.18	0.44
1:V4:417:ASP:HA	1:V4:420:SER:HB2	1.98	0.44
1:V6:51:PHE:HB3	1:V6:59:TYR:HB3	2.00	0.44
1:V6:198:GLU:HG3	1:V6:266:PHE:HE2	1.83	0.44
2:V7:135:PHE:HB2	2:V7:166:LYS:HG2	1.99	0.44
1:V8:27:GLU:O	1:V8:43:GLN:NE2	2.50	0.44
1:V8:86:ARG:HB3	1:V8:89:ASN:OD1	2.17	0.44
1:V8:233:MET:O	1:V8:237:THR:HG22	2.17	0.44
1:W0:387:ALA:HA	1:W0:390:ARG:HH21	1.83	0.44
1:W4:418:LEU:O	1:W4:421:GLU:HG2	2.18	0.44
2:W5:325:PRO:HA	2:W5:328:VAL:HG12	1.99	0.44
1:W8:95:THR:OG1	1:W8:96:GLY:N	2.51	0.44
2:W9:88:HIS:CG	2:Y5:283:HIS:NE2	2.86	0.44
1:X2:260:PHE:HB2	1:X2:263:LEU:HB2	2.00	0.44
1:X2:396:HIS:CD2	2:X3:263:PRO:HD3	2.53	0.44
2:X5:269:LEU:HD13	2:X5:301:MET:SD	2.57	0.44
1:X6:156:ARG:HD2	1:X6:156:ARG:HA	1.85	0.44
2:X9:178:SER:HB2	1:Y0:347:ASN:ND2	2.33	0.44
2:X9:205:ASP:HB2	2:X9:303:VAL:HA	1.98	0.44
2:X9:267:PHE:HB3	2:X9:384:ILE:HG21	1.99	0.44
2:Y1:203:MET:HB3	2:Y1:203:MET:HE2	1.61	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Y3:252:ILE:HA	2:Y3:255:PHE:HE2	1.82	0.44
2:Y5:333:ALA:O	2:Y5:337:THR:HG23	2.18	0.44
1:Y6:100:ASN:HB3	1:Y6:103:LYS:HB2	1.98	0.44
1:Y6:382:SER:HB3	1:Y6:415:MET:HG2	1.99	0.44
1:Y8:116:VAL:HA	1:Y8:119:VAL:HG22	1.98	0.44
1:Y8:182:PRO:HB2	1:Y8:385:PHE:HD1	1.83	0.44
1:Z4:405:GLU:O	1:Z4:409:THR:HG23	2.17	0.44
2:Z5:20:CYS:SG	2:Z5:235:ILE:HG21	2.57	0.44
2:Z5:203:MET:HB2	2:Z5:303:VAL:HG21	1.99	0.44
2:Z7:278:ALA:HA	2:Z7:369:ALA:HB2	2.00	0.44
1:Z8:211:CYS:HA	1:Z8:215:LEU:HB2	1.98	0.44
1:0A:10:GLY:O	1:0A:14:ASN:HB2	2.18	0.44
1:0A:14:ASN:OD1	1:0A:65:LEU:HD22	2.17	0.44
1:0A:345:ILE:O	1:0A:348:ASN:ND2	2.50	0.44
2:0B:90:GLU:O	2:0B:121:ARG:NH1	2.49	0.44
1:0E:313:ALA:HB1	1:0E:367:PHE:HE1	1.81	0.44
1:0I:371:SER:OG	1:0I:372:THR:N	2.50	0.44
2:0J:292:THR:HG1	2:0J:319:TYR:HH	1.62	0.44
2:0J:329:ASN:HA	2:0J:332:VAL:HG12	1.99	0.44
2:0J:338:LYS:HG3	2:0J:340:THR:HG22	1.99	0.44
1:0K:249:ASP:OD2	1:0K:250:LEU:N	2.48	0.44
2:0L:28:HIS:ND1	2:0L:49:PHE:HA	2.32	0.44
1:0M:378:PHE:HB3	1:0M:415:MET:HE3	2.00	0.44
1:0M:396:HIS:H	1:0M:396:HIS:CD2	2.34	0.44
2:0P:257:THR:OG1	2:0P:258:ASN:N	2.50	0.44
1:0S:180:VAL:HG22	1:0S:183:TYR:HB2	1.98	0.44
2:0Z:73:THR:HG23	2:0Z:74:VAL:N	2.33	0.44
2:0Z:329:ASN:HA	2:0Z:332:VAL:HG12	2.00	0.44
1:1A:35:THR:OG1	1:1A:37:HIS:NE2	2.48	0.44
2:1D:283:HIS:HD2	2:1D:284:GLU:HB2	1.82	0.44
1:1E:344:TRP:O	1:1E:345:ILE:HD13	2.18	0.44
1:1E:396:HIS:H	1:1E:396:HIS:CD2	2.36	0.44
1:1G:337:ASN:HB3	1:1G:340:TYR:CD2	2.52	0.44
2:1H:417:GLU:HA	2:1H:420:GLU:HG2	1.99	0.44
2:1L:222:PRO:HD2	1:1M:324:LYS:HE3	1.99	0.44
2:1N:27:GLU:OE1	2:1N:243:ARG:NH1	2.51	0.44
2:1N:319:TYR:HB2	2:1N:355:ILE:HA	1.98	0.44
1:1O:21:TRP:CZ2	1:1O:63:ALA:HB2	2.52	0.44
2:1P:174:SER:HB2	2:1P:177:VAL:O	2.16	0.44
1:1S:26:ASP:O	1:1S:359:LYS:NZ	2.29	0.44
2:1V:223:THR:OG1	2:1V:224:TYR:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2B:161:TYR:CE1	38:8A:80:TYR:CB	3.01	0.44
1:2C:86:ARG:HB3	1:2C:89:ASN:OD1	2.17	0.44
1:2E:220:PRO:HD2	2:2F:326:LYS:HZ3	1.83	0.44
1:2E:233:MET:HA	1:2E:236:ILE:HG22	2.00	0.44
2:2F:185:TYR:CE1	2:2F:398:MET:HE3	2.53	0.44
1:2G:95:THR:OG1	1:2G:96:GLY:N	2.51	0.44
1:2G:163:MET:HB3	1:2G:250:LEU:HD22	1.98	0.44
1:2M:204:ASN:OD1	39:2M:501:GDP:O2'	2.35	0.44
2:2R:195:LEU:HD11	2:2R:264:ARG:HD2	1.99	0.44
1:2U:52:ASN:ND2	1:2U:123:GLU:OE1	2.51	0.44
1:2U:121:ARG:NH2	1:2U:158:GLU:OE2	2.47	0.44
1:2U:221:THR:OG1	1:2U:222:PHE:N	2.50	0.44
2:2X:141:VAL:HG13	2:2X:170:THR:CG2	2.47	0.44
1:3C:141:GLY:HA3	39:3C:502:GDP:O3A	2.17	0.44
1:3C:185:ALA:O	1:3C:189:VAL:HG12	2.18	0.44
1:3G:83:GLN:N	1:3G:83:GLN:OE1	2.50	0.44
1:3G:253:LEU:HD11	1:3G:316:LEU:HD21	2.00	0.44
1:3I:135:VAL:HG12	1:3I:137:HIS:HD2	1.83	0.44
2:3J:397:LEU:HD23	2:3J:397:LEU:HA	1.80	0.44
2:3L:296:PHE:HE2	2:3L:335:ILE:HD13	1.80	0.44
1:3M:52:ASN:ND2	1:3M:52:ASN:N	2.59	0.44
1:3M:170:VAL:HG22	1:3M:202:LEU:O	2.17	0.44
2:3T:176:GLN:HG2	2:3T:177:VAL:HG13	1.99	0.44
2:3T:185:TYR:CD2	2:3T:395:PHE:HE1	2.35	0.44
3:3X:44:ALA:HB3	3:3X:116:PRO:HG3	1.99	0.44
3:4F:44:ALA:HB3	3:4F:116:PRO:HG3	1.99	0.44
4:4I:35:LYS:NZ	3:4J:253:ASN:OD1	2.29	0.44
5:4M:61:LEU:HD13	19:6E:124:GLU:HG3	2.00	0.44
5:4M:287:LYS:O	5:4M:290:GLN:HB3	2.17	0.44
8:4W:268:GLU:O	8:4W:272:VAL:HG22	2.17	0.44
10:5B:141:LEU:HD23	10:5B:141:LEU:HA	1.84	0.44
14:5L:218:VAL:CG1	14:5L:281:LYS:HZ2	2.30	0.44
15:5P:330:LEU:C	15:5P:330:LEU:CD2	2.85	0.44
19:6E:157:ASP:N	19:6E:157:ASP:OD1	2.49	0.44
22:6L:220:ASP:OD2	24:6V:440:ASN:HB3	2.17	0.44
22:6O:240:TYR:O	22:6O:244:VAL:HG12	2.18	0.44
24:6V:85:LEU:H	24:6V:85:LEU:HD23	1.83	0.44
24:6V:556:ASP:O	24:6V:560:ARG:HG3	2.18	0.44
24:6Z:103:LYS:HG2	24:6Z:116:ILE:HG12	1.99	0.44
24:6Z:252:LYS:HG2	24:6Z:253:PRO:HD2	1.99	0.44
27:7G:194:PRO:HA	27:7G:210:TYR:CE2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:7M:23:LEU:CD2	31:7M:25:THR:HG23	2.48	0.44
34:7R:265:THR:HA	34:7R:268:ASP:OD2	2.18	0.44
38:8B:18:VAL:HG12	38:8B:20:SER:H	1.82	0.44
1:5:262:ARG:HH12	3:3Z:240:ARG:HH11	1.63	0.44
1:C0:320:ARG:HH12	18:6C:53:GLY:HA3	1.83	0.44
1:C6:142:GLY:N	39:C6:501:GDP:O1B	2.51	0.44
1:D2:212:PHE:HB3	24:6X:249:ARG:NH2	2.31	0.44
1:F0:357:PRO:HD2	22:6N:111:PRO:HB2	2.00	0.44
2:G9:384:ILE:HA	2:G9:387:ILE:HD12	2.00	0.44
2:H1:165:SER:HB3	2:H1:256:GLN:HE22	1.81	0.44
2:H3:217:LEU:HB3	2:H3:219:ILE:HG13	1.98	0.44
2:H5:100:ALA:HA	1:H6:252:LYS:HE2	2.00	0.44
1:H6:229:ILE:HG22	1:H6:233:MET:SD	2.57	0.44
1:I0:5:VAL:HB	1:I0:133:PHE:HD1	1.82	0.44
1:I0:218:THR:H	24:6X:489:ASN:HB2	1.80	0.44
1:I2:176:SER:HB2	2:I3:349:THR:OG1	2.18	0.44
2:I7:155:GLU:HB2	2:I7:197:HIS:CE1	2.53	0.44
1:J0:211:CYS:HA	1:J0:215:LEU:HB2	2.00	0.44
2:J1:88:HIS:HB3	2:K7:283:HIS:CG	2.53	0.44
2:J1:266:HIS:O	2:J1:266:HIS:ND1	2.49	0.44
1:J6:222:PHE:HD2	2:J7:247:ALA:HB1	1.81	0.44
2:J9:278:ALA:HB2	5:4M:270:LYS:HD2	1.99	0.44
2:K1:217:LEU:HB3	2:K1:219:ILE:HD12	1.99	0.44
1:K6:114:ASP:OD2	1:K6:115:SER:N	2.51	0.44
1:K6:211:CYS:HB3	1:K6:217:LEU:HD12	1.99	0.44
2:K9:170:THR:HG21	2:K9:194:LEU:HD11	1.98	0.44
1:L0:273:LEU:H	1:L0:292:GLN:NE2	2.15	0.44
1:L2:317:PHE:HB3	1:L2:321:MET:SD	2.57	0.44
2:L5:222:PRO:O	1:L6:322:SER:OG	2.28	0.44
2:L7:4:VAL:CG1	2:L7:133:GLN:HB2	2.47	0.44
1:M4:31:ASP:HB2	1:M4:32:PRO:HD2	2.00	0.44
1:M4:105:HIS:CD2	1:M4:150:LEU:HD12	2.53	0.44
1:M6:80:PRO:HB2	15:5P:69:PHE:CE1	2.52	0.44
2:M7:119:LEU:HD21	2:M7:156:ARG:HB3	1.99	0.44
2:M7:145:THR:OG1	41:M7:501:GTP:O1B	2.36	0.44
1:M8:125:GLU:OE2	1:M8:159:TYR:OH	2.34	0.44
1:M8:325:GLU:O	1:M8:329:GLN:HG2	2.18	0.44
1:N0:105:HIS:CD2	1:N0:150:LEU:HB2	2.53	0.44
1:N0:220:PRO:HD2	2:N1:326:LYS:HD3	1.99	0.44
1:N6:218:THR:OG1	1:N6:219:THR:N	2.50	0.44
1:O0:166:THR:HG23	1:O0:199:CYS:HA	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O0:173:PRO:HD2	1:O0:380:ARG:CZ	2.47	0.44
2:O3:181:VAL:HB	1:O4:256:ASN:HD22	1.82	0.44
2:O3:346:TRP:CD1	2:O3:346:TRP:O	2.71	0.44
2:O3:362:VAL:HG21	19:6E:104:TYR:CD2	2.53	0.44
1:O4:232:VAL:HG11	1:O4:268:VAL:HG11	2.00	0.44
2:P5:145:THR:OG1	41:P6:501:GTP:O1B	2.35	0.44
2:P5:425:LEU:HD12	2:P5:425:LEU:HA	1.84	0.44
1:P6:107:THR:OG1	1:P6:108:GLU:OE1	2.15	0.44
1:P8:3:GLU:HG3	1:P8:127:CYS:SG	2.58	0.44
2:Q1:151:SER:O	2:Q1:155:GLU:HG3	2.17	0.44
2:Q5:286:LEU:HD23	2:Q5:286:LEU:HA	1.80	0.44
1:Q6:249:ASP:OD1	1:Q6:252:LYS:N	2.48	0.44
1:R0:95:THR:HG23	1:R0:96:GLY:N	2.32	0.44
1:R0:167:PHE:CZ	1:R0:233:MET:HG2	2.52	0.44
1:R2:65:LEU:HD13	1:R2:90:PHE:HE1	1.83	0.44
1:R2:404:ASP:N	1:R2:407:GLU:OE2	2.39	0.44
2:R3:260:VAL:HG23	2:R3:260:VAL:O	2.17	0.44
2:R9:364:PRO:O	12:5F:113:LYS:NZ	2.37	0.44
1:S2:175:VAL:HG23	1:S2:175:VAL:O	2.18	0.44
1:S2:253:LEU:HD21	1:S2:316:LEU:HD11	1.99	0.44
1:S8:49:VAL:HG11	1:S8:241:ARG:HG2	1.98	0.44
1:T0:114:ASP:OD1	1:T0:115:SER:N	2.51	0.44
2:T3:327:ASP:N	2:T3:327:ASP:OD1	2.44	0.44
2:T7:220:GLU:H	2:T7:220:GLU:CD	2.19	0.44
1:U2:285:THR:OG1	1:U2:287:PRO:HD2	2.17	0.44
2:U3:276:ILE:HA	2:U3:280:LYS:HD2	1.99	0.44
2:U5:69:ASP:OD2	2:U5:71:GLU:N	2.46	0.44
1:U6:177:ASP:OD2	2:U7:248:LEU:HD11	2.18	0.44
1:U8:100:ASN:HB3	1:U8:103:LYS:HB2	1.99	0.44
2:U9:87:PHE:CB	2:U9:92:LEU:HD21	2.48	0.44
2:U9:88:HIS:HB2	2:W5:283:HIS:HB3	1.99	0.44
2:U9:279:GLU:HB2	2:U9:280:LYS:NZ	2.33	0.44
1:V0:178:THR:HG23	1:V0:181:GLU:HG3	2.00	0.44
1:V0:282:ARG:HE	1:V0:288:GLU:HG2	1.82	0.44
1:V2:162:ARG:HD3	1:V2:162:ARG:HA	1.83	0.44
2:W7:14:ILE:HD11	2:W7:74:VAL:HG22	1.98	0.44
2:W7:344:VAL:HG11	2:W7:346:TRP:CE2	2.53	0.44
1:W8:3:GLU:HB2	1:W8:130:LEU:HA	2.00	0.44
2:W9:3:GLU:HG2	2:W9:64:ARG:NH1	2.32	0.44
2:X3:21:TRP:CZ2	2:X3:65:CYS:HB2	2.53	0.44
1:X4:12:CYS:SG	1:X4:16:ILE:HD11	2.57	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X4:109:GLY:HA2	1:X4:113:ILE:HG13	2.00	0.44
1:X4:396:HIS:CE1	1:X4:397:TRP:CE2	3.05	0.44
1:X6:205:GLU:HG2	1:X6:206:ALA:N	2.33	0.44
2:Y1:69:ASP:OD1	2:Y1:70:LEU:N	2.50	0.44
2:Y1:292:THR:OG1	2:Y1:319:TYR:OH	2.31	0.44
1:Z0:234:SER:HA	1:Z0:237:THR:HG22	1.99	0.44
1:Z2:107:THR:OG1	1:Z2:108:GLU:OE1	2.33	0.44
1:Z4:24:VAL:HA	1:Z4:27:GLU:HG2	2.00	0.44
1:Z4:68:LEU:HD21	1:Z4:112:LEU:HD22	1.99	0.44
1:Z6:3:GLU:O	1:Z6:131:GLN:N	2.43	0.44
1:Z6:23:VAL:HG21	1:Z6:230:SER:HB3	1.98	0.44
1:Z8:103:LYS:NZ	1:Z8:108:GLU:OE2	2.43	0.44
1:Z8:205:GLU:HG2	1:Z8:206:ALA:N	2.33	0.44
1:Z8:379:LYS:HA	1:Z8:379:LYS:HD2	1.65	0.44
2:Z9:15:GLN:HB3	2:Z9:228:ASN:HD21	1.82	0.44
1:0A:101:TRP:CE3	1:0A:187:LEU:HD23	2.52	0.44
1:0A:317:PHE:HE2	1:0A:326:VAL:HG13	1.83	0.44
1:0A:418:LEU:O	1:0A:421:GLU:HG2	2.18	0.44
2:0B:414:GLU:HG2	2:0B:416:GLY:H	1.81	0.44
1:0C:386:THR:O	1:0C:390:ARG:HG3	2.17	0.44
1:0E:309:ARG:H	1:0E:372:THR:HG22	1.83	0.44
1:0G:167:PHE:HD1	1:0G:200:MET:HB3	1.83	0.44
1:0G:233:MET:HE3	1:0G:236:ILE:HG21	1.98	0.44
2:0H:102:ASN:ND2	2:0H:411:GLU:HG3	2.22	0.44
2:0L:127:ASP:OD1	2:1B:293:ASN:ND2	2.51	0.44
1:0O:67:ASP:HB3	1:0O:92:PHE:HE1	1.83	0.44
2:0P:88:HIS:HB3	2:1F:283:HIS:CE1	2.52	0.44
1:0S:87:PRO:HA	1:0S:90:PHE:CD2	2.53	0.44
2:0X:90:GLU:HB3	2:0X:121:ARG:HH22	1.82	0.44
1:1A:135:VAL:HG12	1:1A:137:HIS:HD2	1.82	0.44
1:1A:358:PRO:HG2	1:1A:361:LEU:HD23	1.99	0.44
1:1E:156:ARG:HD2	1:1E:156:ARG:HA	1.86	0.44
2:1L:75:VAL:HG11	2:1L:94:SER:HB3	1.99	0.44
1:1W:212:PHE:O	1:1W:216:LYS:HD2	2.17	0.44
2:1Z:152:LEU:O	2:1Z:156:ARG:HG2	2.17	0.44
1:2C:391:ARG:O	2:2D:262:TYR:OH	2.32	0.44
2:2D:417:GLU:HA	2:2D:420:GLU:HG2	2.00	0.44
1:2E:193:VAL:HG12	1:2E:265:PHE:CZ	2.49	0.44
2:2J:76:ASP:O	2:2J:80:THR:HG22	2.17	0.44
1:2K:21:TRP:CZ3	1:2K:61:PRO:HB3	2.53	0.44
2:2L:49:PHE:HB2	2:2L:53:PHE:HD2	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2L:195:LEU:HD12	2:2L:428:LEU:HD12	1.99	0.44
2:2N:217:LEU:HD11	2:2N:367:ASP:CB	2.47	0.44
2:2R:90:GLU:HG3	2:2R:121:ARG:CZ	2.47	0.44
1:2S:64:ILE:HD13	1:2S:120:VAL:HG12	2.00	0.44
2:2T:69:ASP:OD2	2:2T:70:LEU:N	2.51	0.44
2:2T:110:ILE:O	2:2T:113:GLU:HG3	2.18	0.44
1:2U:290:THR:HG21	1:2U:329:GLN:CG	2.47	0.44
2:2V:170:THR:HG21	2:2V:194:LEU:HD21	1.99	0.44
2:2Z:312:TYR:HB2	2:2Z:343:PHE:HD1	1.83	0.44
2:2Z:429:GLU:O	2:2Z:433:GLU:HG3	2.17	0.44
1:3A:83:GLN:NE2	14:5N:80:GLY:HA3	2.33	0.44
2:3B:269:LEU:HG	2:3B:384:ILE:HD11	1.99	0.44
1:3C:245:GLN:HG2	38:8D:198:THR:HG21	1.98	0.44
2:3D:76:ASP:O	2:3D:80:THR:HG23	2.17	0.44
2:3D:109:THR:O	2:3D:112:LYS:HG2	2.17	0.44
2:3F:3:GLU:HB2	2:3F:129:CYS:SG	2.57	0.44
1:3G:134:GLN:HE21	1:3G:167:PHE:HE2	1.65	0.44
1:3I:309:ARG:NH1	1:3I:341:PHE:O	2.50	0.44
1:3I:364:SER:OG	1:3I:365:ALA:N	2.49	0.44
1:3K:3:GLU:HB2	1:3K:130:LEU:HA	1.99	0.44
1:3K:95:THR:HG21	3:4B:138:GLY:CA	2.48	0.44
2:3L:356:ASN:OD1	2:3L:357:TYR:N	2.51	0.44
1:3M:391:ARG:NH2	2:3N:435:VAL:HG13	2.25	0.44
1:3Q:67:ASP:OD2	1:3Q:68:LEU:N	2.46	0.44
1:3Q:215:LEU:HB3	1:3Q:217:LEU:HG	1.99	0.44
2:3R:27:GLU:OE1	2:3R:243:ARG:NH1	2.51	0.44
1:3S:177:ASP:HA	2:3T:353:CYS:SG	2.58	0.44
2:3T:156:ARG:O	2:3T:159:VAL:HG22	2.16	0.44
2:3T:195:LEU:O	2:3T:266:HIS:NE2	2.45	0.44
3:3Z:44:ALA:HB3	3:3Z:116:PRO:HG3	1.99	0.44
3:4D:44:ALA:HB3	3:4D:116:PRO:HG3	1.99	0.44
3:4J:225:VAL:O	3:4J:284:LYS:NZ	2.46	0.44
5:4M:219:ARG:O	5:4M:222:GLU:HG3	2.16	0.44
5:4M:319:GLU:OE2	5:4M:320:GLN:HG3	2.16	0.44
6:4P:130:ASP:OD1	6:4P:131:GLU:N	2.51	0.44
7:4R:301:ARG:HG3	20:6F:130:LEU:HD13	1.99	0.44
7:4T:209:ARG:HH12	31:7M:53:ILE:CG1	2.29	0.44
8:4W:348:ALA:O	8:4W:351:GLU:HG3	2.17	0.44
9:4Y:365:ALA:HA	9:4Y:368:ASP:OD2	2.17	0.44
10:5A:264:ALA:O	10:5A:267:LEU:HG	2.18	0.44
10:5C:488:GLY:HA2	10:5C:491:ARG:HG2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:5G:256:PRO:HA	12:5G:257:PRO:HD3	1.86	0.44
12:5G:290:PHE:HD2	12:5G:292:LEU:HD22	1.81	0.44
13:5H:70:LYS:HE2	13:5H:70:LYS:HB3	1.43	0.44
13:5J:70:LYS:HE2	13:5J:70:LYS:HB3	1.43	0.44
14:5L:218:VAL:HG12	14:5L:281:LYS:NZ	2.32	0.44
14:5M:415:LYS:HZ3	23:6R:22:MET:HG3	1.80	0.44
15:5P:37:MET:HG3	15:5P:46:PHE:HB3	1.99	0.44
17:5U:177:ASP:O	17:5U:181:LEU:N	2.46	0.44
19:6E:17:VAL:CG1	19:6E:28:ARG:HG2	2.46	0.44
21:6H:125:GLU:O	21:6H:129:VAL:HG22	2.17	0.44
22:6J:108:ARG:HH22	24:6U:283:THR:C	2.21	0.44
22:6L:114:THR:HG23	22:6L:117:GLY:H	1.82	0.44
23:6Q:13:THR:O	23:6Q:17:THR:HG23	2.18	0.44
24:6T:505:LYS:N	24:6T:510:GLU:O	2.48	0.44
24:6U:119:VAL:HG11	24:6U:179:PHE:HD1	1.82	0.44
24:6V:268:ASN:O	24:6V:299:GLU:HB3	2.18	0.44
24:6X:592:ASP:N	24:6X:592:ASP:OD1	2.49	0.44
24:6Y:507:ARG:HA	24:6Y:507:ARG:HH21	1.83	0.44
24:6Z:255:HIS:CE1	24:6Z:256:LEU:HG	2.52	0.44
24:6Z:285:MET:O	24:6Z:285:MET:HG3	2.18	0.44
29:7I:149:ARG:HH21	29:7I:172:VAL:HB	1.82	0.44
29:7I:171:THR:O	29:7I:171:THR:OG1	2.34	0.44
30:7L:371:ASP:OD2	30:7L:372:LEU:N	2.51	0.44
34:7R:226:LEU:HG	35:7T:181:LEU:HD22	1.99	0.44
38:8B:80:TYR:O	38:8B:80:TYR:CD2	2.70	0.44
38:8B:219:LEU:HD23	38:8B:219:LEU:HA	1.81	0.44
1:A7:360:GLY:O	24:6T:109:SER:N	2.50	0.44
1:D0:226:ASN:OD1	39:D0:501:GDP:N1	2.35	0.44
1:E8:204:ASN:ND2	39:E8:502:GDP:HN22	2.15	0.44
1:G2:175:VAL:O	1:G2:175:VAL:HG23	2.18	0.44
2:G3:156:ARG:HA	2:G3:159:VAL:HG12	1.99	0.44
1:G4:33:THR:O	1:G4:58:ARG:NH2	2.51	0.44
2:G5:80:THR:O	2:G5:80:THR:HG22	2.18	0.44
2:G5:367:ASP:OD1	2:G5:367:ASP:N	2.50	0.44
1:G8:190:HIS:NE2	1:G8:414:ASN:OD1	2.50	0.44
2:G9:177:VAL:HG21	2:G9:207:GLU:OE1	2.17	0.44
2:G9:287:SER:OG	2:G9:290:GLU:OE1	2.32	0.44
2:H1:113:GLU:OE1	2:H1:113:GLU:N	2.50	0.44
2:H3:92:LEU:N	2:H3:92:LEU:HD23	2.32	0.44
1:H6:48:ASN:OD1	1:H6:49:VAL:N	2.51	0.44
2:H7:11:GLN:OE1	2:H7:15:GLN:NE2	2.49	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I1:63:PRO:HB2	2:I1:65:CYS:SG	2.57	0.44
2:I1:431:ASP:O	2:I1:435:VAL:HG23	2.17	0.44
2:I3:266:HIS:O	2:I3:266:HIS:ND1	2.46	0.44
1:I4:57:GLY:O	28:7X:312:LEU:HD21	2.18	0.44
2:I5:9:ILE:CG1	2:I5:139:ASN:HB3	2.47	0.44
2:I5:217:LEU:HB3	2:I5:219:ILE:HD12	1.99	0.44
2:I9:352:LYS:NZ	2:I9:353:CYS:O	2.51	0.44
2:J1:65:CYS:SG	2:J1:87:PHE:HE1	2.41	0.44
2:J1:165:SER:HB3	2:J1:256:GLN:NE2	2.31	0.44
1:J4:35:THR:HA	1:J4:57:GLY:O	2.18	0.44
1:J4:73:MET:HA	1:J4:76:VAL:HG22	2.00	0.44
2:J5:91:GLN:NE2	2:J5:121:ARG:HH22	2.12	0.44
2:J5:205:ASP:OD1	2:J5:206:ASN:N	2.51	0.44
1:K4:141:GLY:HA3	39:K4:502:GDP:O3A	2.18	0.44
2:K9:255:PHE:HA	2:K9:259:LEU:HD13	1.99	0.44
2:K9:282:TYR:N	2:K9:282:TYR:CD2	2.86	0.44
1:L2:272:PRO:HB2	1:L2:282:ARG:NH1	2.33	0.44
1:L2:334:GLN:HE22	1:L2:347:ASN:H	1.66	0.44
2:L3:330:ALA:O	2:L3:334:THR:HG23	2.17	0.44
1:L4:56:GLY:H	29:7J:329:SER:HB2	1.81	0.44
1:L6:11:GLN:HE22	2:L7:248:LEU:HA	1.80	0.44
1:L6:70:PRO:N	1:L6:92:PHE:HZ	2.15	0.44
2:L9:81:GLY:O	2:L9:84:ARG:NH1	2.50	0.44
2:L9:387:ILE:HG12	2:L9:390:ARG:HH22	1.83	0.44
1:M0:2:ARG:HB3	1:M0:131:GLN:HB2	1.98	0.44
2:M3:167:LEU:HD13	2:M3:200:VAL:HB	1.99	0.44
1:M4:167:PHE:CE2	1:M4:233:MET:HG2	2.52	0.44
1:M4:174:LYS:HE2	1:M4:174:LYS:HA	2.00	0.44
2:M5:9:ILE:HD11	2:M5:153:LEU:HD23	1.99	0.44
2:M9:194:LEU:O	2:M9:198:THR:OG1	2.29	0.44
2:N3:104:ALA:HB1	2:N3:411:GLU:CD	2.38	0.44
2:N3:242:LEU:HD11	2:N3:252:ILE:HG12	1.99	0.44
2:N3:386:GLU:HB2	2:N3:390:ARG:NH2	2.17	0.44
2:N3:390:ARG:O	2:N3:394:LYS:HE2	2.18	0.44
1:N6:203:ASP:N	1:N6:203:ASP:OD1	2.51	0.44
1:N8:177:ASP:OD2	39:N8:502:GDP:H3'	2.17	0.44
1:O0:217:LEU:HD13	27:7G:51:ARG:NH1	2.33	0.44
2:O1:110:ILE:O	2:O1:114:ILE:HG12	2.17	0.44
1:O2:99:ASN:ND2	2:O3:254:GLU:OE1	2.50	0.44
2:O3:47:ASP:N	2:O3:47:ASP:OD1	2.50	0.44
2:O5:76:ASP:OD1	1:O6:46:ARG:NH2	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O6:410:GLU:OE1	1:V2:340:TYR:OH	2.36	0.44
2:O7:9:ILE:HG22	2:O7:146:GLY:HA2	1.98	0.44
2:P3:12:ALA:HB2	41:P4:501:GTP:C8	2.53	0.44
1:P4:212:PHE:HA	27:7G:171:LYS:NZ	2.33	0.44
1:P4:371:SER:OG	1:P4:372:THR:N	2.51	0.44
2:P5:139:ASN:OD1	2:P5:170:THR:HG22	2.18	0.44
2:P5:249:ASN:OD1	27:7G:183:GLY:HA3	2.17	0.44
2:P7:213:CYS:HA	2:P7:217:LEU:HB2	2.00	0.44
2:P9:40:LYS:HB3	19:6E:158:LEU:O	2.17	0.44
2:P9:217:LEU:HD13	2:P9:367:ASP:OD2	2.18	0.44
1:Q0:345:ILE:O	1:Q0:348:ASN:ND2	2.50	0.44
1:Q2:272:PRO:HD3	1:Q2:364:SER:HA	1.99	0.44
2:Q3:212:ILE:O	2:Q3:216:SER:OG	2.32	0.44
2:Q3:313:MET:HE2	2:Q3:346:TRP:CZ2	2.53	0.44
1:Q4:237:THR:O	1:Q4:237:THR:HG22	2.17	0.44
2:Q5:399:TYR:O	2:Q5:402:ARG:NH1	2.50	0.44
1:Q6:404:ASP:HB2	1:Q6:406:MET:SD	2.58	0.44
1:Q8:418:LEU:O	1:Q8:422:TYR:HD2	2.01	0.44
1:R0:371:SER:OG	1:R0:372:THR:N	2.50	0.44
2:R1:4:VAL:HG23	2:R1:134:GLY:O	2.18	0.44
2:R5:9:ILE:HD13	2:R5:150:GLY:HA2	1.99	0.44
2:R7:258:ASN:O	2:R7:259:LEU:HD12	2.17	0.44
1:S0:113:ILE:HA	1:S0:116:VAL:HG22	1.98	0.44
1:S4:116:VAL:O	1:S4:120:VAL:HG23	2.18	0.44
1:S4:245:GLN:HE21	1:S4:246:LEU:HD21	1.81	0.44
1:S4:314:SER:HA	1:S4:350:LYS:O	2.18	0.44
1:S4:325:GLU:HA	1:S4:328:GLU:HG3	2.00	0.44
2:T1:8:HIS:CD2	2:T1:17:GLY:HA3	2.53	0.44
2:T1:306:ASP:HB3	2:T1:309:HIS:HD2	1.82	0.44
1:T2:385:PHE:HZ	1:T2:408:PHE:HB3	1.82	0.44
2:T3:102:ASN:HB3	2:T3:105:ARG:HB3	1.99	0.44
2:T3:335:ILE:CG2	2:T3:341:ILE:HD11	2.47	0.44
2:T5:121:ARG:HA	2:T5:121:ARG:HD2	1.85	0.44
2:T5:334:THR:HG21	13:5J:135:ASN:ND2	2.32	0.44
2:T7:434:GLU:OE1	13:5K:67:LYS:NZ	2.50	0.44
1:U2:325:GLU:O	1:U2:329:GLN:HB2	2.18	0.44
1:U4:166:THR:OG1	1:U4:199:CYS:SG	2.73	0.44
2:U5:4:VAL:HG23	2:U5:134:GLY:O	2.17	0.44
2:U5:312:TYR:HB2	2:U5:343:PHE:HD1	1.82	0.44
1:U8:207:LEU:HB3	1:U8:225:LEU:HD22	1.99	0.44
1:U8:309:ARG:O	1:U8:372:THR:HG22	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U8:415:MET:O	1:U8:419:VAL:HG13	2.18	0.44
1:V2:417:ASP:OD1	1:V2:418:LEU:N	2.51	0.44
2:V3:300:SER:O	2:V3:300:SER:OG	2.32	0.44
1:V4:276:ARG:HH11	1:V4:279:GLN:HB3	1.83	0.44
1:V6:404:ASP:HB3	1:V6:406:MET:SD	2.58	0.44
1:W0:3:GLU:HB2	1:W0:130:LEU:HA	2.00	0.44
1:W4:190:HIS:HD2	1:W4:414:ASN:HB2	1.83	0.44
1:W6:36:TYR:CZ	1:W6:44:LEU:HD21	2.53	0.44
1:W6:392:LYS:HD2	1:W6:395:LEU:HD22	2.00	0.44
2:W7:119:LEU:HA	2:W7:122:ILE:HG22	1.98	0.44
1:X0:40:SER:CB	8:4X:99:PRO:HG3	2.48	0.44
2:X3:119:LEU:HA	2:X3:122:ILE:HG22	1.99	0.44
2:X3:236:SER:OG	2:X3:243:ARG:NH2	2.51	0.44
2:X5:62:VAL:HG21	2:X5:91:GLN:HE22	1.81	0.44
2:X5:111:GLY:HA2	2:X5:114:ILE:HG22	1.99	0.44
1:X6:232:VAL:HG11	1:X6:268:VAL:HG11	2.00	0.44
2:Y1:34:GLY:HA3	2:Y1:60:LYS:NZ	2.32	0.44
1:Y4:2:ARG:NE	1:Y4:240:LEU:HD22	2.32	0.44
1:Y4:418:LEU:O	1:Y4:421:GLU:HG2	2.17	0.44
2:Y9:7:ILE:HD12	2:Y9:66:ILE:HG12	1.98	0.44
1:Z2:177:ASP:OD2	1:Z2:178:THR:HG23	2.17	0.44
2:Z3:101:ASN:C	2:Z3:186:ASN:HD21	2.21	0.44
2:Z5:23:LEU:HD22	2:Z5:236:SER:OG	2.17	0.44
2:Z5:30:ILE:HG12	2:Z5:36:MET:HG3	2.00	0.44
2:Z5:111:GLY:HA2	2:Z5:114:ILE:HG22	2.00	0.44
2:0B:70:LEU:HB3	2:0B:97:GLU:O	2.18	0.44
2:0F:73:THR:HG23	1:0G:2:ARG:HH12	1.83	0.44
1:0G:207:LEU:HB3	1:0G:225:LEU:HD22	1.99	0.44
2:0H:83:TYR:HD1	2:0H:86:LEU:HD13	1.82	0.44
1:0K:21:TRP:CZ3	1:0K:61:PRO:HB3	2.53	0.44
1:0K:286:VAL:CG2	1:0K:287:PRO:HD3	2.48	0.44
1:0M:3:GLU:HB2	1:0M:130:LEU:HA	1.99	0.44
1:0M:372:THR:O	1:0M:375:GLN:HG3	2.18	0.44
2:0P:407:TRP:CE2	1:0Q:255:VAL:HA	2.53	0.44
2:0R:149:LEU:HA	2:0R:152:LEU:HD12	2.00	0.44
2:0V:156:ARG:HA	2:0V:159:VAL:HG12	2.00	0.44
1:0W:112:LEU:O	1:0W:116:VAL:HG23	2.18	0.44
1:0W:180:VAL:HG23	1:0W:184:ASN:ND2	2.32	0.44
1:0Y:116:VAL:O	1:0Y:120:VAL:HG22	2.18	0.44
1:1G:345:ILE:HB	1:1G:348:ASN:HD21	1.82	0.44
2:1H:420:GLU:O	2:1H:424:ASP:HB2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1L:156:ARG:HA	2:1L:159:VAL:HG22	2.00	0.44
2:1N:205:ASP:OD2	2:1N:206:ASN:N	2.49	0.44
2:1N:227:LEU:O	2:1N:231:ILE:HG12	2.17	0.44
1:1O:257:LEU:HD21	1:1O:314:SER:HB3	2.00	0.44
1:1Q:393:ALA:O	1:1Q:394:PHE:HB2	2.17	0.44
2:1R:69:ASP:OD1	2:1R:70:LEU:N	2.47	0.44
2:1R:198:THR:HG21	2:1R:201:ALA:HB2	2.00	0.44
2:1T:205:ASP:OD2	2:1T:303:VAL:HG13	2.17	0.44
1:1U:220:PRO:HD2	2:1V:326:LYS:HD3	1.99	0.44
1:1W:153:SER:OG	1:1W:191:GLN:NE2	2.47	0.44
1:1W:161:ASP:N	1:1W:161:ASP:OD1	2.42	0.44
2:2B:12:ALA:HB2	41:2C:501:GTP:C8	2.53	0.44
2:2D:384:ILE:HG13	2:2D:385:GLY:N	2.33	0.44
1:2E:220:PRO:HD2	2:2F:326:LYS:NZ	2.33	0.44
1:2G:301:CYS:SG	1:2G:302:ALA:N	2.91	0.44
2:2L:96:LYS:HE3	38:8C:6:LEU:HD23	2.00	0.44
1:2M:421:GLU:HA	1:2M:424:GLN:HB3	2.00	0.44
2:2P:122:ILE:HG13	2:2P:123:ARG:N	2.33	0.44
1:2Q:139:LEU:HD12	1:2Q:170:VAL:HG12	1.98	0.44
1:2Q:278:SER:O	1:2Q:278:SER:OG	2.36	0.44
1:2Q:332:ASN:ND2	38:7Z:1:MET:HA	2.31	0.44
2:2R:304:LYS:HA	2:2R:304:LYS:HD2	1.74	0.44
1:2S:117:LEU:HD11	1:2S:154:LYS:HB3	2.00	0.44
1:2S:295:ASP:OD2	1:2S:297:LYS:HB2	2.17	0.44
2:2T:387:ILE:HG12	2:2T:390:ARG:HH22	1.83	0.44
2:2V:7:ILE:HG12	2:2V:137:VAL:HG12	1.99	0.44
1:2W:133:PHE:HZ	1:2W:159:TYR:HD2	1.66	0.44
2:2X:157:LEU:HD23	2:2X:157:LEU:HA	1.82	0.44
2:2Z:137:VAL:HG11	2:2Z:154:LEU:HD21	2.00	0.44
2:2Z:214:ARG:HG3	38:8C:66:TYR:CE1	2.53	0.44
2:2Z:286:LEU:HD12	2:2Z:286:LEU:HA	1.76	0.44
2:2Z:426:ALA:O	2:2Z:430:LYS:HG2	2.18	0.44
1:3C:359:LYS:HD3	1:3C:360:GLY:N	2.33	0.44
1:3G:198:GLU:HA	1:3G:264:HIS:HB2	1.98	0.44
2:3H:182:VAL:HG12	2:3H:182:VAL:O	2.17	0.44
2:3L:339:ARG:HA	2:3L:339:ARG:NE	2.27	0.44
2:3P:84:ARG:HE	23:6S:15:ARG:NH2	2.07	0.44
2:3R:66:ILE:HG12	2:3R:122:ILE:HD11	2.00	0.44
1:3S:4:ILE:CG2	1:3S:50:TYR:HE1	2.30	0.44
4:4I:50:MET:HE3	4:4I:50:MET:HB2	1.94	0.44
6:4N:487:ILE:HD13	6:4N:487:ILE:HA	1.84	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:4O:323:ARG:O	6:4O:326:GLU:HG3	2.17	0.44
7:4R:33:THR:O	7:4R:37:GLN:HG3	2.17	0.44
7:4T:276:ASP:OD2	7:4T:277:ALA:N	2.50	0.44
8:4W:133:TYR:CD2	8:4W:134:LEU:HD23	2.52	0.44
9:4Y:364:LYS:HA	9:4Y:367:GLU:HG2	1.98	0.44
10:5B:133:ARG:O	10:5B:137:THR:HG23	2.18	0.44
12:5F:298:ASP:CB	12:7B:13:PRO:CG	2.95	0.44
12:5F:347:PRO:HG2	12:5F:350:VAL:HG21	2.00	0.44
17:5S:114:LEU:N	17:5S:114:LEU:HD22	2.32	0.44
22:6I:275:LEU:O	22:6I:279:LEU:HG	2.17	0.44
22:6J:138:ASP:N	22:6J:138:ASP:OD1	2.48	0.44
22:6J:209:ASN:O	22:6J:213:THR:HG23	2.18	0.44
22:6O:177:LEU:HD12	22:6O:183:ASN:HB2	1.98	0.44
23:6S:13:THR:O	23:6S:17:THR:HG23	2.18	0.44
24:6T:435:LEU:HA	24:6T:438:LEU:HB2	1.99	0.44
24:6V:452:MET:HE1	24:6V:528:ARG:HH11	1.82	0.44
24:6Z:84:LYS:HE3	24:6Z:84:LYS:HB3	1.83	0.44
24:6Z:469:PHE:CD2	24:6Z:482:ILE:HG23	2.53	0.44
29:7I:128:ARG:NH1	29:7I:143:ARG:HD2	2.33	0.44
29:7J:269:GLY:H	30:7L:368:ARG:HH12	1.65	0.44
29:7J:469:LEU:HB3	29:7J:473:GLY:HA2	1.98	0.44
34:7R:269:TRP:HB3	35:7T:223:PHE:HE2	1.80	0.44
35:7T:137:ASN:O	35:7T:141:LYS:HG2	2.18	0.44
37:7Y:128:TYR:CD2	37:7Y:128:TYR:O	2.71	0.44
38:8B:170:PHE:O	38:8B:170:PHE:CG	2.68	0.44
1:9:306:ARG:NH1	3:4D:60:PRO:O	2.50	0.44
2:A2:218:ASP:OD1	26:7F:81:LYS:HD3	2.17	0.44
2:B9:145:THR:OG1	41:C0:501:GTP:O1B	2.36	0.44
2:C5:220:GLU:HB3	18:5X:160:ASP:OD1	2.17	0.44
1:E0:204:ASN:ND2	39:E0:501:GDP:HN22	2.15	0.44
2:E3:360:PRO:O	22:6J:92:GLN:NE2	2.50	0.44
2:E5:12:ALA:HB2	41:E6:501:GTP:C8	2.53	0.44
1:G2:7:ILE:O	1:G2:135:VAL:HA	2.18	0.44
1:G2:222:PHE:CD1	1:G2:225:LEU:HD12	2.52	0.44
1:G2:289:LEU:HD23	1:G2:365:ALA:HB2	2.00	0.44
1:G4:8:GLN:O	1:G4:66:MET:HG2	2.17	0.44
1:G4:272:PRO:O	1:G4:273:LEU:HD23	2.18	0.44
1:G4:309:ARG:H	1:G4:372:THR:HG22	1.82	0.44
1:G4:317:PHE:HB3	1:G4:321:MET:SD	2.58	0.44
2:G5:4:VAL:HG23	2:G5:134:GLY:O	2.18	0.44
1:G6:23:VAL:HG11	1:G6:230:SER:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G9:110:ILE:O	2:G9:114:ILE:HG12	2.18	0.44
2:H1:90:GLU:OE1	2:I7:283:HIS:ND1	2.50	0.44
2:H1:403:ALA:HB2	1:H2:344:TRP:HZ3	1.82	0.44
2:H3:317:LEU:HB3	2:H3:319:TYR:CE1	2.46	0.44
1:H4:350:LYS:NZ	1:H4:352:SER:OG	2.50	0.44
1:I0:309:ARG:H	1:I0:372:THR:CG2	2.29	0.44
2:I1:139:ASN:N	2:I1:139:ASN:OD1	2.50	0.44
1:I2:3:GLU:HB2	1:I2:130:LEU:HD13	1.99	0.44
1:I2:192:LEU:HD13	1:I2:199:CYS:SG	2.57	0.44
2:I3:56:THR:O	2:I3:60:LYS:HB3	2.18	0.44
1:I4:262:ARG:NH2	1:I4:417:ASP:OD1	2.51	0.44
1:I4:270:PHE:HD2	1:I4:273:LEU:HG	1.82	0.44
2:I5:110:ILE:O	2:I5:113:GLU:HG3	2.18	0.44
2:I5:399:TYR:HE2	2:I5:415:GLU:OE1	2.00	0.44
1:I8:91:VAL:CG2	1:I8:119:VAL:HG21	2.47	0.44
1:I8:91:VAL:HG21	1:I8:119:VAL:HG21	1.99	0.44
2:I9:121:ARG:HD2	2:I9:121:ARG:C	2.38	0.44
1:J0:271:THR:OG1	1:J0:365:ALA:HB3	2.18	0.44
2:J1:306:ASP:HB3	2:J1:309:HIS:HD2	1.82	0.44
1:J2:130:LEU:HB2	1:J2:162:ARG:HE	1.83	0.44
1:J2:176:SER:O	1:J2:176:SER:OG	2.31	0.44
2:J3:9:ILE:HD13	2:J3:150:GLY:HA2	1.99	0.44
2:J3:76:ASP:O	2:J3:80:THR:HG23	2.17	0.44
1:J4:237:THR:CG2	1:J4:240:LEU:HD12	2.48	0.44
2:J5:245:ASP:OD1	5:4L:475:HIS:O	2.35	0.44
2:J9:223:THR:OG1	2:J9:224:TYR:N	2.50	0.44
1:K0:203:ASP:N	1:K0:203:ASP:OD1	2.50	0.44
2:K1:107:HIS:CD2	2:K1:152:LEU:HD13	2.52	0.44
2:K3:90:GLU:H	2:K3:90:GLU:CD	2.21	0.44
2:K3:156:ARG:HA	2:K3:159:VAL:HG12	1.99	0.44
2:K5:207:GLU:OE1	2:K5:304:LYS:HD2	2.17	0.44
2:K5:279:GLU:HG3	2:K5:280:LYS:N	2.33	0.44
2:K7:205:ASP:OD2	2:K7:206:ASN:N	2.49	0.44
1:K8:95:THR:HG23	1:K8:96:GLY:N	2.33	0.44
1:K8:125:GLU:OE2	1:M4:336:LYS:NZ	2.46	0.44
1:L0:173:PRO:HD2	1:L0:380:ARG:CZ	2.48	0.44
2:L1:75:VAL:HG11	2:L1:94:SER:HB3	2.00	0.44
2:L3:89:PRO:HB3	29:7J:320:PRO:CD	2.43	0.44
1:L4:3:GLU:HB2	1:L4:130:LEU:HA	1.99	0.44
2:L5:90:GLU:N	2:L5:90:GLU:OE2	2.51	0.44
2:L5:114:ILE:HG21	2:L5:149:LEU:HD22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L5:261:PRO:HB2	2:L5:262:TYR:CD2	2.52	0.44
2:L7:291:ILE:HA	2:L7:294:ALA:HB3	2.00	0.44
1:M0:5:VAL:HB	1:M0:133:PHE:CD1	2.52	0.44
1:M0:49:VAL:HG11	1:M0:241:ARG:HG2	1.99	0.44
1:M0:186:THR:HG22	1:M0:411:ALA:HB1	2.00	0.44
1:M2:139:LEU:HD12	1:M2:170:VAL:HG22	1.98	0.44
2:M3:90:GLU:HG3	2:M3:121:ARG:CZ	2.47	0.44
2:M3:205:ASP:OD1	2:M3:207:GLU:HG2	2.18	0.44
1:M4:244:GLY:H	1:M4:247:ASN:HD21	1.64	0.44
1:M6:31:ASP:HB2	1:M6:32:PRO:HD2	2.00	0.44
1:M6:278:SER:O	1:M6:278:SER:OG	2.29	0.44
2:N1:90:GLU:CB	1:O8:281:TYR:CE2	2.90	0.44
2:N1:288:VAL:HG13	2:N1:319:TYR:HE2	1.83	0.44
1:N2:52:ASN:O	1:N2:60:VAL:HG12	2.18	0.44
2:N5:70:LEU:HB3	2:N5:97:GLU:O	2.18	0.44
1:N6:191:GLN:HE21	1:N6:195:ASN:HD21	1.64	0.44
2:N9:21:TRP:CZ2	2:N9:65:CYS:HB2	2.53	0.44
2:O1:89:PRO:HB2	2:O1:90:GLU:OE1	2.18	0.44
2:O1:121:ARG:HA	2:O1:121:ARG:HD2	1.78	0.44
2:O1:225:THR:HG21	37:7Y:241:THR:CB	2.48	0.44
1:O4:183:TYR:O	1:O4:187:LEU:HD13	2.17	0.44
1:O4:244:GLY:HA2	1:O4:355:ASP:OD1	2.18	0.44
2:O5:394:LYS:HB2	1:O6:346:PRO:HG3	2.00	0.44
2:P5:111:GLY:HA2	2:P5:114:ILE:HG22	1.99	0.44
2:Q1:66:ILE:HD12	2:Q1:68:LEU:HD23	1.99	0.44
2:Q1:320:ARG:O	2:Q1:373:ARG:HA	2.17	0.44
1:Q2:111:GLU:N	1:Q2:111:GLU:OE1	2.49	0.44
2:Q3:65:CYS:SG	2:Q3:66:ILE:N	2.91	0.44
1:Q4:379:LYS:HG3	1:Q4:419:VAL:HG11	1.98	0.44
1:Q8:137:HIS:O	1:Q8:168:SER:HA	2.17	0.44
1:R0:237:THR:O	1:R0:237:THR:HG22	2.18	0.44
2:R1:91:GLN:O	2:R1:93:ILE:HG12	2.17	0.44
2:R1:387:ILE:HG12	2:R1:390:ARG:HH22	1.82	0.44
1:R2:7:ILE:HD13	1:R2:151:LEU:HD21	2.00	0.44
1:R4:77:ARG:HH22	1:R4:87:PRO:HG3	1.81	0.44
2:R5:377:MET:HG2	2:R5:378:ILE:N	2.33	0.44
1:R6:114:ASP:OD1	1:R6:115:SER:N	2.51	0.44
1:R6:257:LEU:O	1:R6:259:PRO:HD3	2.18	0.44
2:R7:100:ALA:HA	1:R8:252:LYS:HE2	1.99	0.44
2:R9:279:GLU:N	2:R9:279:GLU:OE1	2.48	0.44
2:R9:288:VAL:HG13	2:R9:319:TYR:HE2	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S0:58:ARG:HB2	1:T6:280:GLN:HE22	1.83	0.44
2:S7:14:ILE:HD11	2:S7:74:VAL:CG1	2.48	0.44
2:S7:105:ARG:HA	2:S7:411:GLU:HG2	1.99	0.44
1:S8:170:VAL:HG22	1:S8:202:LEU:O	2.18	0.44
1:T0:189:VAL:O	1:T0:193:VAL:HG13	2.17	0.44
2:T1:76:ASP:OD2	1:T2:46:ARG:NH2	2.51	0.44
1:T6:287:PRO:HA	1:T6:290:THR:HG22	1.99	0.44
2:U1:88:HIS:ND1	2:V7:283:HIS:HA	2.32	0.44
2:U1:201:ALA:O	2:U1:268:MET:HE1	2.17	0.44
2:U5:174:SER:HB3	2:U5:207:GLU:HB2	1.99	0.44
2:U7:90:GLU:HB3	2:U7:121:ARG:HH22	1.83	0.44
1:U8:31:ASP:OD1	1:U8:35:THR:N	2.49	0.44
1:U8:246:LEU:HD22	1:U8:352:SER:HA	1.99	0.44
2:U9:72:PRO:HD2	1:V0:2:ARG:NH1	2.32	0.44
2:U9:93:ILE:HD12	2:U9:117:LEU:HD21	2.00	0.44
1:V0:371:SER:OG	1:V0:372:THR:N	2.50	0.44
1:V2:78:SER:HB2	6:4P:23:ARG:HE	1.83	0.44
1:V2:175:VAL:HG13	2:V3:329:ASN:ND2	2.32	0.44
1:V6:414:ASN:HA	1:V6:417:ASP:OD2	2.18	0.44
2:V7:363:VAL:HG23	2:V7:366:GLY:HA3	1.99	0.44
1:V8:322:SER:OG	1:V8:325:GLU:HB3	2.18	0.44
1:W0:91:VAL:HG21	1:W0:119:VAL:HG21	2.00	0.44
1:W4:285:THR:HB	1:W4:287:PRO:HD2	1.98	0.44
1:W4:304:ASP:HB3	1:W4:307:HIS:ND1	2.32	0.44
2:W5:327:ASP:OD1	2:W5:328:VAL:N	2.50	0.44
1:W8:33:THR:HG23	1:W8:35:THR:HG23	1.99	0.44
2:W9:157:LEU:HD23	2:W9:157:LEU:HA	1.84	0.44
1:X2:58:ARG:NH1	1:X2:84:ILE:HA	2.33	0.44
1:X2:192:LEU:HD22	1:X2:196:ALA:HB2	2.00	0.44
1:X4:114:ASP:N	1:X4:114:ASP:OD1	2.49	0.44
2:X5:65:CYS:SG	2:X5:66:ILE:N	2.91	0.44
1:X6:184:ASN:OD1	1:X6:398:TYR:OH	2.28	0.44
1:Y0:268:VAL:HG12	1:Y0:269:GLY:N	2.33	0.44
1:Y0:418:LEU:O	1:Y0:421:GLU:HG2	2.17	0.44
1:Y2:232:VAL:HG22	1:Y2:270:PHE:HB2	2.00	0.44
2:Y3:301:MET:HE1	2:Y3:307:PRO:HD3	1.99	0.44
1:Y6:275:SER:OG	1:Y6:278:SER:OG	2.19	0.44
2:Y9:129:CYS:SG	2:Y9:130:THR:N	2.91	0.44
2:Z1:286:LEU:H	2:Z1:286:LEU:HD23	1.81	0.44
2:Z3:73:THR:OG1	2:Z3:74:VAL:N	2.50	0.44
1:Z4:132:GLY:HA2	1:Z4:162:ARG:HB3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z5:167:LEU:HD13	2:Z5:200:VAL:HB	1.98	0.44
2:Z7:167:LEU:HD13	2:Z7:200:VAL:HB	1.98	0.44
2:Z7:232:ALA:HA	2:Z7:235:ILE:HG22	1.99	0.44
1:0A:3:GLU:HG3	1:0A:127:CYS:HB2	1.99	0.44
1:0C:332:ASN:OD1	1:0C:336:LYS:HE3	2.18	0.44
1:0E:43:GLN:O	1:0E:47:ILE:HG23	2.18	0.44
1:0E:286:VAL:HG21	1:0E:325:GLU:HB3	1.99	0.44
1:0E:334:GLN:HA	1:0E:341:PHE:CE2	2.53	0.44
2:0F:353:CYS:SG	2:0F:354:GLY:N	2.90	0.44
1:0G:394:PHE:HE2	2:0H:347:CYS:SG	2.40	0.44
2:0H:191:THR:HA	2:0H:194:LEU:HB3	2.00	0.44
2:0J:2:ARG:NE	2:0J:242:LEU:O	2.45	0.44
1:0K:406:MET:SD	1:0K:406:MET:N	2.88	0.44
1:0O:374:ILE:HD12	1:0O:374:ILE:H	1.83	0.44
1:0Q:314:SER:HA	1:0Q:350:LYS:O	2.18	0.44
1:0Q:379:LYS:HD3	1:0Q:419:VAL:HG21	2.00	0.44
2:0R:28:HIS:CE1	2:0R:49:PHE:HA	2.53	0.44
2:0R:396:ASP:HA	2:0R:399:TYR:HB3	1.99	0.44
1:0S:314:SER:HB2	1:0S:368:ILE:HG23	1.99	0.44
1:0U:135:VAL:HG12	1:0U:137:HIS:HD2	1.83	0.44
1:0U:185:ALA:O	1:0U:189:VAL:HG22	2.17	0.44
2:0V:167:LEU:HD13	2:0V:200:VAL:HB	2.00	0.44
1:0W:392:LYS:HD2	1:0W:395:LEU:HD22	1.99	0.44
2:1D:53:PHE:HB3	2:1D:61:HIS:HB3	2.00	0.44
2:1D:377:MET:O	2:1D:378:ILE:HD13	2.17	0.44
1:1G:145:SER:OG	1:1G:146:GLY:N	2.51	0.44
1:1K:180:VAL:HG23	1:1K:184:ASN:ND2	2.32	0.44
2:1L:222:PRO:CD	1:1M:324:LYS:HE3	2.47	0.44
2:1N:407:TRP:CG	1:1O:255:VAL:HG23	2.52	0.44
1:1O:2:ARG:HH21	1:1O:240:LEU:HA	1.83	0.44
1:1O:213:ARG:HE	1:1O:297:LYS:NZ	2.13	0.44
1:1Q:174:LYS:HD2	1:1Q:174:LYS:H	1.82	0.44
1:1Q:309:ARG:H	1:1Q:372:THR:CG2	2.29	0.44
2:1R:266:HIS:O	2:1R:266:HIS:ND1	2.49	0.44
1:2E:396:HIS:H	1:2E:396:HIS:CD2	2.35	0.44
2:2F:21:TRP:CZ2	2:2F:65:CYS:HB3	2.52	0.44
2:2F:251:ASP:OD1	2:2F:253:THR:HG22	2.17	0.44
2:2H:245:ASP:OD1	2:2H:245:ASP:N	2.49	0.44
2:2H:279:GLU:CD	10:5B:167:ILE:HD13	2.37	0.44
2:2H:282:TYR:OH	10:5B:163:ARG:HB3	2.18	0.44
1:2K:201:VAL:HG22	1:2K:266:PHE:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2L:213:CYS:HA	2:2L:217:LEU:HB2	1.98	0.44
1:2M:262:ARG:HH22	1:2M:414:ASN:HD22	1.66	0.44
1:2S:248:ALA:HA	1:2S:252:LYS:HD2	2.00	0.44
1:2U:77:ARG:NH1	17:5T:201:LEU:HG	2.33	0.44
1:2W:39:ASP:OD1	1:2W:40:SER:N	2.50	0.44
2:2X:137:VAL:HG22	2:2X:168:GLY:HA2	2.00	0.44
2:2X:156:ARG:HA	2:2X:159:VAL:HG12	2.00	0.44
2:2X:313:MET:HB2	2:2X:380:ASN:HB3	1.99	0.44
2:3D:7:ILE:HG12	2:3D:137:VAL:HG12	1.99	0.44
2:3F:164:LYS:HZ1	3:3V:136:HIS:HB2	1.82	0.44
2:3F:187:SER:OG	2:3F:391:LEU:HD21	2.18	0.44
2:3H:21:TRP:CZ3	2:3H:63:PRO:HB3	2.53	0.44
1:3I:218:THR:OG1	1:3I:219:THR:HG23	2.17	0.44
1:3K:170:VAL:HG22	1:3K:202:LEU:O	2.17	0.44
1:3M:327:ASP:OD1	1:3M:328:GLU:N	2.50	0.44
2:3N:163:LYS:HE3	3:4D:137:ARG:HG2	1.98	0.44
1:3Q:165:LEU:HD23	1:3Q:165:LEU:HA	1.87	0.44
1:3Q:256:ASN:O	1:3Q:312:THR:HG21	2.18	0.44
2:3R:276:ILE:HD11	2:3R:281:ALA:HA	1.99	0.44
1:3S:167:PHE:CZ	1:3S:233:MET:HG2	2.52	0.44
3:4H:44:ALA:HB3	3:4H:116:PRO:HG3	1.99	0.44
6:4O:114:GLU:OE2	6:4O:115:LYS:HG3	2.18	0.44
6:4O:147:GLU:HA	6:4O:150:ASP:OD1	2.18	0.44
6:4O:474:PRO:HG3	6:4P:138:LYS:HB3	2.00	0.44
7:4Q:367:ARG:HD2	7:4Q:367:ARG:HA	1.87	0.44
7:4S:3:ARG:H	7:4S:3:ARG:HG3	1.51	0.44
7:4U:137:THR:HG23	31:7N:120:TRP:CH2	2.53	0.44
8:4W:468:MET:CE	8:4W:470:TYR:CE1	3.00	0.44
9:4Z:39:TRP:HE1	14:5L:583:ASP:HB3	1.82	0.44
9:4Z:400:ARG:HE	9:4Z:400:ARG:HB2	1.60	0.44
11:5E:103:VAL:N	11:5E:104:PRO:CD	2.80	0.44
14:5N:228:PHE:CD1	14:5N:228:PHE:O	2.70	0.44
15:5P:155:SER:OG	15:5P:156:GLY:N	2.50	0.44
15:5P:279:ALA:CA	15:5P:298:VAL:HG21	2.46	0.44
21:6H:109:THR:C	24:6X:82:ALA:HB3	2.38	0.44
22:6N:50:PHE:O	22:6N:53:THR:OG1	2.29	0.44
24:6T:185:ASP:O	24:6T:188:THR:OG1	2.32	0.44
24:6T:558:LEU:HD23	24:6T:612:LEU:CD2	2.48	0.44
24:6U:574:ARG:O	24:6U:578:ILE:HG12	2.18	0.44
24:6X:111:MET:HG2	24:6X:213:TYR:CE2	2.53	0.44
28:7H:300:GLY:O	28:7H:304:LYS:HG3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:7H:361:TRP:HA	28:7H:361:TRP:HE3	1.82	0.44
36:7V:23:PHE:CE2	36:7V:72:LEU:HD13	2.53	0.44
28:7X:301:GLU:H	28:7X:301:GLU:HG3	1.60	0.44
28:7X:306:LEU:HD23	28:7X:306:LEU:HA	1.86	0.44
2:4:364:PRO:HB2	26:7D:53:TYR:HD1	1.75	0.44
2:A4:44:GLY:N	24:6Z:124:TYR:OH	2.49	0.44
2:A4:357:TYR:CB	26:7F:146:ASN:HA	2.44	0.44
1:D4:47:ILE:HD11	22:6N:23:TYR:CE2	2.53	0.44
1:G2:51:PHE:HB3	1:G2:59:TYR:HB3	1.98	0.44
1:G2:190:HIS:NE2	1:G2:410:GLU:OE1	2.50	0.44
2:G5:5:ILE:HG22	2:G5:64:ARG:HB3	2.00	0.44
2:G5:56:THR:OG1	2:I1:284:GLU:O	2.35	0.44
2:G5:60:LYS:NZ	2:I1:282:TYR:HA	2.33	0.44
1:G6:40:SER:OG	1:G6:42:LEU:HG	2.17	0.44
1:G6:406:MET:SD	1:G6:406:MET:N	2.91	0.44
2:G7:69:ASP:OD1	2:G7:70:LEU:N	2.51	0.44
2:G9:79:ARG:NH1	2:G9:92:LEU:O	2.48	0.44
1:H2:53:GLU:CD	1:H2:53:GLU:H	2.21	0.44
1:H2:309:ARG:H	1:H2:372:THR:CG2	2.30	0.44
1:H4:7:ILE:HB	1:H4:135:VAL:HG22	2.00	0.44
1:H4:45:GLU:OE1	1:H4:46:ARG:HG2	2.17	0.44
1:H4:91:VAL:CG1	1:H4:116:VAL:HG12	2.48	0.44
2:H5:91:GLN:NE2	2:H5:121:ARG:HH21	2.16	0.44
2:H5:223:THR:HG23	2:H5:225:THR:H	1.83	0.44
1:H8:107:THR:OG1	1:H8:401:GLU:OE2	2.22	0.44
2:H9:83:TYR:HB3	2:H9:86:LEU:HB3	2.00	0.44
1:I2:252:LYS:HA	1:I2:255:VAL:CG1	2.36	0.44
1:J0:58:ARG:HB2	6:4O:224:ARG:HH12	1.83	0.44
2:J1:7:ILE:HG12	2:J1:137:VAL:HG12	1.99	0.44
2:J3:325:PRO:O	2:J3:328:VAL:HG12	2.17	0.44
1:J4:48:ASN:HB3	16:5Q:126:PHE:CZ	2.53	0.44
2:J9:52:PHE:CE2	2:J9:243:ARG:HD3	2.53	0.44
2:J9:255:PHE:HA	2:J9:259:LEU:HD13	2.00	0.44
2:K1:84:ARG:NH1	28:7X:407:LYS:HG3	2.32	0.44
2:K3:69:ASP:OD1	2:K3:71:GLU:N	2.49	0.44
2:K3:220:GLU:OE1	2:K3:220:GLU:N	2.50	0.44
2:K3:294:ALA:O	2:K3:300:SER:OG	2.31	0.44
1:K4:114:ASP:OD2	1:K4:115:SER:N	2.51	0.44
2:K5:76:ASP:O	2:K5:80:THR:HG23	2.17	0.44
2:K5:187:SER:O	2:K5:191:THR:HG23	2.18	0.44
1:K6:273:LEU:O	1:K6:292:GLN:NE2	2.49	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K7:227:LEU:O	2:K7:231:ILE:HG12	2.17	0.44
2:K9:274:PRO:HB2	2:K9:276:ILE:HG12	1.99	0.44
1:L0:5:VAL:HG22	1:L0:62:ARG:HD3	2.00	0.44
1:L2:233:MET:O	1:L2:236:ILE:HG22	2.16	0.44
2:L3:73:THR:HG21	1:L4:2:ARG:HH22	1.83	0.44
1:L6:274:THR:OG1	1:L6:279:GLN:OE1	2.35	0.44
2:L7:53:PHE:HB3	2:L7:61:HIS:HB3	1.99	0.44
2:L7:259:LEU:HD23	2:L7:268:MET:HG2	2.00	0.44
1:M0:22:GLU:HG2	1:M0:81:TYR:HB2	2.00	0.44
1:M0:179:VAL:HG12	2:M1:349:THR:O	2.18	0.44
2:M3:221:ARG:NH2	30:7K:189:PHE:O	2.50	0.44
1:M8:175:VAL:HG13	1:M8:205:GLU:OE1	2.18	0.44
1:N0:97:ALA:HA	1:N0:103:LYS:HE3	1.98	0.44
1:N0:317:PHE:HE2	1:N0:326:VAL:HG13	1.82	0.44
2:N3:233:GLN:O	2:N3:237:SER:OG	2.23	0.44
1:N6:139:LEU:HD12	1:N6:170:VAL:HG12	2.00	0.44
2:N9:133:GLN:HB3	2:N9:252:ILE:HG21	2.00	0.44
2:O1:417:GLU:HA	2:O1:420:GLU:HG2	1.99	0.44
1:O2:161:ASP:OD1	1:O2:162:ARG:NH1	2.50	0.44
1:O2:408:PHE:O	1:O2:412:GLU:HG3	2.17	0.44
1:O4:178:THR:HG23	1:O4:181:GLU:HG3	2.00	0.44
2:O5:9:ILE:HD13	2:O5:150:GLY:HA2	1.99	0.44
2:O5:31:GLN:HE21	2:O5:37:PRO:HG3	1.81	0.44
2:O5:157:LEU:HD23	2:O5:157:LEU:HA	1.83	0.44
1:O8:320:ARG:HG3	32:7P:67:ARG:NH1	2.33	0.44
2:O9:12:ALA:HB2	41:O9:501:GTP:C8	2.52	0.44
1:P4:272:PRO:HB2	1:P4:282:ARG:HH12	1.83	0.44
2:P5:66:ILE:HD12	2:P5:68:LEU:HD23	1.99	0.44
2:P5:327:ASP:N	2:P5:327:ASP:OD1	2.51	0.44
1:Q0:51:PHE:HB3	1:Q0:59:TYR:HB3	2.00	0.44
1:Q2:53:GLU:OE2	1:Q2:54:ALA:N	2.51	0.44
2:Q3:260:VAL:HG23	2:Q3:260:VAL:O	2.18	0.44
2:Q5:27:GLU:OE1	2:Q5:243:ARG:NH1	2.46	0.44
1:Q8:70:PRO:HG2	2:Q9:2:ARG:HE	1.83	0.44
1:Q8:167:PHE:CE2	1:Q8:233:MET:HG2	2.52	0.44
1:Q8:263:LEU:HG	1:Q8:422:TYR:CE1	2.53	0.44
1:R0:31:ASP:HB2	1:R0:32:PRO:HD2	1.99	0.44
2:R1:55:GLU:HG2	2:R1:61:HIS:CE1	2.53	0.44
2:R1:66:ILE:HG13	2:R1:66:ILE:O	2.17	0.44
1:R6:67:ASP:OD2	1:R6:72:THR:OG1	2.36	0.44
1:R8:343:GLU:OE2	1:R8:430:ALA:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S5:9:ILE:HG22	2:S5:146:GLY:HA2	1.99	0.44
1:S6:149:THR:HG22	1:S6:191:GLN:HG2	1.99	0.44
2:S7:188:VAL:HG12	2:S7:421:ALA:HB1	1.98	0.44
2:S7:274:PRO:HD3	2:S7:374:ALA:HA	2.00	0.44
1:S8:337:ASN:HD21	17:5S:48:THR:N	2.16	0.44
2:S9:431:ASP:OD1	13:5I:60:HIS:NE2	2.51	0.44
2:T1:2:ARG:NH2	2:T1:47:ASP:OD2	2.51	0.44
1:T2:391:ARG:NE	2:T3:346:TRP:HE1	2.16	0.44
2:T3:8:HIS:CD2	2:T3:138:PHE:HD2	2.35	0.44
2:T3:384:ILE:HD12	2:T3:384:ILE:H	1.82	0.44
2:T5:349:THR:HG23	2:T5:349:THR:O	2.16	0.44
1:T6:177:ASP:N	1:T6:181:GLU:OE2	2.51	0.44
1:T8:175:VAL:HG13	1:T8:175:VAL:O	2.18	0.44
1:T8:389:PHE:O	1:T8:392:LYS:NZ	2.48	0.44
2:U1:399:TYR:O	2:U1:402:ARG:NH1	2.50	0.44
1:U2:135:VAL:HG11	1:U2:152:ILE:HD11	1.99	0.44
1:U2:282:ARG:HD3	1:U2:282:ARG:H	1.82	0.44
1:U4:386:THR:O	1:U4:390:ARG:HG3	2.18	0.44
1:U8:190:HIS:HD2	1:U8:414:ASN:HB2	1.83	0.44
1:U8:263:LEU:HD22	1:U8:422:TYR:HE1	1.83	0.44
2:V3:165:SER:HA	2:V3:199:ASP:OD2	2.18	0.44
1:V6:253:LEU:HA	1:V6:350:LYS:HZ2	1.83	0.44
2:V7:175:PRO:HB3	2:V7:390:ARG:NE	2.32	0.44
1:W0:418:LEU:HG	1:W0:422:TYR:HE2	1.82	0.44
2:W1:305:CYS:HB2	2:W1:383:ALA:HB1	2.00	0.44
1:W2:111:GLU:N	1:W2:111:GLU:OE2	2.50	0.44
2:W3:5:ILE:HD11	2:W3:135:PHE:CE1	2.51	0.44
1:W4:51:PHE:HB3	1:W4:59:TYR:HB3	1.99	0.44
2:W7:284:GLU:HG2	2:W7:285:GLN:H	1.83	0.44
1:X2:207:LEU:HB3	1:X2:225:LEU:HD22	1.99	0.44
2:X3:186:ASN:OD1	2:X3:408:TYR:OH	2.36	0.44
2:X3:233:GLN:NE2	2:X3:272:TYR:OH	2.51	0.44
2:X5:11:GLN:HB3	41:X6:501:GTP:O2A	2.18	0.44
1:X8:58:ARG:HH11	1:X8:84:ILE:HA	1.82	0.44
1:Y0:167:PHE:CZ	1:Y0:233:MET:HG2	2.53	0.44
2:Y3:145:THR:HG23	2:Y3:149:LEU:HD21	2.00	0.44
2:Y3:318:MET:N	2:Y3:318:MET:SD	2.91	0.44
2:Y3:345:ASP:OD1	2:Y3:346:TRP:N	2.51	0.44
2:Y5:150:GLY:O	2:Y5:154:LEU:HB2	2.18	0.44
1:Y8:199:CYS:SG	1:Y8:200:MET:N	2.91	0.44
2:Y9:103:PHE:CD2	2:Y9:189:LEU:HD23	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Y9:209:ILE:HD13	2:Y9:227:LEU:HG	1.99	0.44
2:Y9:269:LEU:HD21	2:Y9:301:MET:SD	2.58	0.44
2:Y9:280:LYS:HA	2:Y9:283:HIS:HB3	1.99	0.44
2:Z3:66:ILE:O	2:Z3:66:ILE:HG13	2.17	0.44
1:Z4:153:SER:HB3	1:Z4:195:ASN:HD22	1.83	0.44
1:Z6:27:GLU:OE1	1:Z6:318:ARG:NH2	2.46	0.44
1:Z6:49:VAL:HG21	1:Z6:240:LEU:HD22	2.00	0.44
1:Z6:177:ASP:O	2:Z7:352:LYS:HA	2.18	0.44
1:Z6:294:TRP:CD1	1:Z6:333:VAL:HG21	2.52	0.44
1:Z8:65:LEU:HD13	1:Z8:90:PHE:CD1	2.52	0.44
1:Z8:173:PRO:O	1:Z8:176:SER:OG	2.34	0.44
1:Z8:212:PHE:HE1	1:Z8:220:PRO:HG3	1.82	0.44
2:Z9:34:GLY:HA3	2:Z9:60:LYS:HZ2	1.83	0.44
1:0A:42:LEU:HA	1:0A:45:GLU:OE1	2.17	0.44
2:0B:28:HIS:CE1	2:0B:49:PHE:HA	2.53	0.44
2:0B:119:LEU:HA	2:0B:122:ILE:HG22	2.00	0.44
2:0B:188:VAL:HG23	2:0B:189:LEU:HD12	2.00	0.44
2:0B:296:PHE:HE2	2:0B:335:ILE:HG12	1.83	0.44
1:0C:61:PRO:HG2	1:0C:85:PHE:CE1	2.52	0.44
1:0C:186:THR:HG21	1:0C:385:PHE:CG	2.53	0.44
1:0E:8:GLN:OE1	1:0E:65:LEU:HD12	2.18	0.44
2:0F:32:PRO:HA	2:0F:86:LEU:HD12	2.00	0.44
1:0G:91:VAL:HG11	1:0G:116:VAL:HG12	1.98	0.44
1:0K:111:GLU:N	1:0K:111:GLU:OE1	2.50	0.44
2:0L:217:LEU:HD13	2:0L:367:ASP:OD2	2.18	0.44
2:0L:330:ALA:O	2:0L:334:THR:HG23	2.18	0.44
2:0L:344:VAL:HG21	2:0L:346:TRP:HE1	1.82	0.44
2:0N:73:THR:OG1	2:0N:74:VAL:N	2.51	0.44
1:0O:3:GLU:HB2	1:0O:130:LEU:HD13	1.99	0.44
2:0P:8:HIS:CD2	2:0P:138:PHE:HD2	2.35	0.44
1:0Q:297:LYS:HA	1:0Q:297:LYS:HD3	1.74	0.44
2:0R:377:MET:O	2:0R:378:ILE:HD13	2.18	0.44
2:0V:223:THR:OG1	2:0V:224:TYR:N	2.51	0.44
1:0Y:186:THR:HG22	1:0Y:411:ALA:HB1	2.00	0.44
1:0Y:404:ASP:HB3	1:0Y:406:MET:SD	2.58	0.44
2:0Z:254:GLU:O	2:0Z:257:THR:OG1	2.29	0.44
2:1D:111:GLY:HA2	2:1D:114:ILE:HG22	1.99	0.44
1:1G:67:ASP:OD2	1:1G:72:THR:HG21	2.18	0.44
1:1K:162:ARG:HD3	1:1K:162:ARG:HA	1.79	0.44
2:1N:174:SER:HB2	2:1N:205:ASP:OD2	2.18	0.44
2:1N:346:TRP:N	2:1N:346:TRP:CD1	2.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1N:368:LEU:HD23	2:1N:368:LEU:HA	1.91	0.44
2:1P:21:TRP:HZ2	2:1P:65:CYS:HB2	1.82	0.44
1:1Q:325:GLU:O	1:1Q:329:GLN:HB2	2.17	0.44
2:1V:3:GLU:HB2	2:1V:129:CYS:SG	2.58	0.44
1:1W:34:GLY:O	1:1W:58:ARG:HA	2.18	0.44
2:1X:109:THR:OG1	2:1X:411:GLU:OE2	2.31	0.44
2:1X:290:GLU:OE1	2:1X:290:GLU:N	2.43	0.44
1:2A:167:PHE:HE1	1:2A:200:MET:HG3	1.83	0.44
2:2B:261:PRO:HG3	2:2B:313:MET:HE2	2.00	0.44
2:2B:288:VAL:HG13	2:2B:319:TYR:HE2	1.82	0.44
2:2D:3:GLU:HG3	2:2D:51:THR:HA	1.99	0.44
2:2D:72:PRO:HD2	1:2E:2:ARG:NH1	2.33	0.44
1:2E:3:GLU:HB2	1:2E:130:LEU:HA	2.00	0.44
1:2E:276:ARG:HE	1:2E:276:ARG:HB2	1.65	0.44
2:2F:143:GLY:HA3	41:2G:501:GTP:O2B	2.18	0.44
2:2H:88:HIS:HE1	2:2H:90:GLU:CB	2.25	0.44
2:2L:246:GLY:HA2	2:2L:357:TYR:CD2	2.53	0.44
2:2N:235:ILE:HA	2:2N:238:LEU:HG	1.99	0.44
2:2R:214:ARG:HE	38:8A:65:VAL:CG1	2.31	0.44
1:2S:220:PRO:HD2	2:2T:326:LYS:HD3	1.99	0.44
2:2T:116:ASP:N	2:2T:116:ASP:OD1	2.49	0.44
1:2U:12:CYS:HB3	1:2U:138:SER:OG	2.17	0.44
2:2V:156:ARG:HA	2:2V:159:VAL:HG12	2.00	0.44
1:2W:11:GLN:HE21	1:2W:15:GLN:HE22	1.65	0.44
1:2W:49:VAL:HG11	1:2W:241:ARG:HG2	1.98	0.44
1:2W:297:LYS:HD3	1:2W:297:LYS:HA	1.48	0.44
1:3A:213:ARG:HD2	38:8C:47:PHE:CE1	2.53	0.44
2:3B:224:TYR:CD1	1:3C:323:THR:HG21	2.53	0.44
1:3C:183:TYR:O	1:3C:187:LEU:HD13	2.18	0.44
1:3C:244:GLY:HA2	1:3C:355:ASP:OD2	2.18	0.44
1:3C:391:ARG:HD3	2:3D:346:TRP:CZ2	2.52	0.44
2:3F:312:TYR:HB2	2:3F:343:PHE:CD1	2.53	0.44
1:3G:140:GLY:O	1:3G:184:ASN:ND2	2.35	0.44
2:3H:14:ILE:HD11	2:3H:74:VAL:HG13	1.99	0.44
2:3H:349:THR:O	2:3H:349:THR:OG1	2.34	0.44
2:3J:317:LEU:HB3	2:3J:319:TYR:HE1	1.82	0.44
1:3K:391:ARG:HB2	2:3L:346:TRP:CZ3	2.53	0.44
1:3M:52:ASN:ND2	1:3M:62:ARG:HB2	2.32	0.44
2:3P:157:LEU:HA	2:3P:157:LEU:HD23	1.76	0.44
2:3P:402:ARG:HD3	2:3P:402:ARG:HA	1.87	0.44
1:3Q:137:HIS:ND1	1:3Q:138:SER:O	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3Q:276:ARG:HB2	38:8D:232:PHE:CE2	2.52	0.44
2:3R:394:LYS:HB2	1:3S:346:PRO:HG3	2.00	0.44
4:3W:17:ILE:HD11	4:3W:163:ARG:HH12	1.82	0.44
4:4G:2:PHE:HZ	23:6S:3:LEU:HD12	1.83	0.44
4:4I:17:ILE:HD11	4:4I:163:ARG:HH12	1.82	0.44
3:4J:260:ILE:HD11	3:4J:262:TYR:CZ	2.53	0.44
5:4L:320:GLN:CD	28:7H:428:LEU:HD12	2.38	0.44
10:5A:338:LYS:HA	10:5A:341:GLU:CD	2.38	0.44
10:5C:187:MET:O	10:5C:190:ILE:HG13	2.18	0.44
10:5C:338:LYS:HA	10:5C:341:GLU:OE1	2.18	0.44
12:5F:310:VAL:HG13	12:5F:311:HIS:CD2	2.53	0.44
12:5G:359:LEU:HD21	12:5G:363:MET:HA	2.00	0.44
13:5H:124:VAL:HG21	13:5H:131:GLU:OE2	2.17	0.44
13:5K:124:VAL:HG21	13:5K:131:GLU:OE2	2.17	0.44
14:5M:590:VAL:HG21	14:5M:622:TRP:CZ3	2.53	0.44
14:5N:590:VAL:HG21	14:5N:622:TRP:CZ3	2.53	0.44
15:5O:5:LEU:HD11	15:5O:82:PHE:CZ	2.49	0.44
15:5P:21:LEU:HD23	15:5P:22:TRP:N	2.33	0.44
16:5Q:79:ARG:HD2	16:5Q:81:HIS:HE1	1.82	0.44
18:5Y:173:HIS:HA	18:5Y:212:ILE:O	2.17	0.44
20:6F:215:GLU:OE1	20:6F:216:GLY:N	2.51	0.44
22:6K:49:SER:OG	22:6K:51:ILE:HG22	2.18	0.44
22:6N:264:GLN:HA	24:6Y:406:ALA:HB2	1.98	0.44
22:6O:295:LYS:HD3	22:6O:295:LYS:HA	1.82	0.44
24:6T:525:VAL:HB	24:6T:530:PHE:CE2	2.48	0.44
24:6V:34:THR:HG22	24:6V:35:TYR:N	2.33	0.44
24:6V:117:ARG:NH1	24:6V:134:GLU:OE2	2.50	0.44
24:6V:378:TRP:O	24:6V:382:ASN:ND2	2.48	0.44
24:6V:525:VAL:HB	24:6V:530:PHE:CE2	2.50	0.44
24:6X:42:GLU:OE1	24:6X:42:GLU:N	2.50	0.44
24:6Y:472:SER:HB3	24:6Y:481:LEU:CD2	2.48	0.44
24:6Z:315:ARG:HG3	24:6Z:315:ARG:HH11	1.82	0.44
24:6Z:327:LEU:HD23	24:6Z:348:TYR:CD2	2.53	0.44
26:7E:49:PRO:C	26:7E:56:LEU:HD21	2.38	0.44
29:7J:129:SER:O	29:7J:129:SER:OG	2.28	0.44
30:7L:380:VAL:HA	30:7L:436:CYS:SG	2.57	0.44
38:7Z:8:GLU:OE1	38:7Z:8:GLU:N	2.39	0.44
2:6:372:GLN:NE2	24:6V:88:TRP:CD2	2.86	0.44
2:G1:165:SER:OG	2:G1:256:GLN:OE1	2.33	0.44
2:G1:424:ASP:O	2:G1:428:LEU:HD23	2.18	0.44
1:G2:175:VAL:CG2	1:G2:205:GLU:HB2	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G2:238:CYS:SG	1:G2:318:ARG:NH2	2.91	0.44
2:G7:317:LEU:HB3	2:G7:319:TYR:CE1	2.49	0.44
2:G7:394:LYS:NZ	1:G8:347:ASN:HD21	2.15	0.44
1:G8:156:ARG:HA	1:G8:156:ARG:HD2	1.84	0.44
2:G9:251:ASP:OD2	2:G9:253:THR:N	2.50	0.44
2:H5:69:ASP:OD1	2:H5:71:GLU:N	2.48	0.44
2:H7:88:HIS:O	2:H7:90:GLU:N	2.51	0.44
2:H9:102:ASN:HB3	2:H9:105:ARG:HB3	2.00	0.44
2:I1:217:LEU:HB3	2:I1:219:ILE:CD1	2.47	0.44
2:I1:266:HIS:O	2:I1:266:HIS:ND1	2.46	0.44
2:I3:271:SER:HB2	2:I3:301:MET:HA	2.00	0.44
2:I5:259:LEU:HD23	2:I5:268:MET:HG2	1.99	0.44
2:I5:271:SER:HA	2:I5:302:MET:HG2	2.00	0.44
2:I5:312:TYR:CD1	2:I5:381:SER:HB2	2.53	0.44
1:J0:21:TRP:CZ2	1:J0:63:ALA:HB2	2.53	0.44
2:J1:14:ILE:HD11	2:J1:74:VAL:HG13	1.99	0.44
2:J3:370:LYS:HD2	5:4L:425:GLU:HB3	1.99	0.44
2:J5:27:GLU:OE1	2:J5:243:ARG:NH1	2.50	0.44
2:J7:80:THR:CB	29:7J:390:LEU:HD11	2.48	0.44
1:J8:152:ILE:HD12	1:J8:164:MET:SD	2.57	0.44
1:K0:186:THR:OG1	1:K0:411:ALA:HB1	2.18	0.44
2:K1:70:LEU:HB2	2:K1:98:ASP:OD2	2.18	0.44
2:K1:190:SER:O	2:K1:194:LEU:HG	2.18	0.44
2:K1:339:ARG:HE	2:K1:342:GLN:NE2	2.16	0.44
2:K3:319:TYR:HB3	2:K3:323:VAL:HG21	2.00	0.44
1:K4:116:VAL:HA	1:K4:119:VAL:HG22	1.99	0.44
1:K6:282:ARG:HE	1:K6:282:ARG:HB2	1.65	0.44
2:K7:317:LEU:HB3	2:K7:319:TYR:HE1	1.83	0.44
1:K8:183:TYR:HB3	1:K8:398:TYR:HE2	1.83	0.44
1:K8:186:THR:HG22	1:K8:411:ALA:HB1	1.99	0.44
1:L2:35:THR:HG1	1:L2:37:HIS:HE2	1.63	0.44
2:L3:413:MET:HB3	2:L3:417:GLU:OE2	2.18	0.44
2:L5:287:SER:N	2:L5:290:GLU:OE2	2.48	0.44
2:L9:103:PHE:CE1	2:L9:148:GLY:HA2	2.53	0.44
1:M0:95:THR:OG1	1:M0:96:GLY:N	2.51	0.44
2:M3:281:ALA:HB1	30:7K:213:PHE:CB	2.47	0.44
1:M4:105:HIS:CG	1:M4:150:LEU:HD12	2.53	0.44
1:M6:359:LYS:HD3	37:7Y:142:ARG:HH21	1.83	0.44
2:M7:63:PRO:HB2	2:M7:65:CYS:SG	2.58	0.44
1:M8:5:VAL:HG12	1:M8:133:PHE:HD1	1.83	0.44
2:M9:72:PRO:HD2	1:N0:2:ARG:NH1	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N0:270:PHE:O	1:N0:298:ASN:ND2	2.44	0.44
2:N3:287:SER:OG	2:N3:288:VAL:N	2.50	0.44
1:N6:135:VAL:HG11	1:N6:152:ILE:HD11	2.00	0.44
2:N7:176:GLN:HG2	2:N7:177:VAL:N	2.33	0.44
2:O1:387:ILE:HD13	2:O1:390:ARG:HH12	1.82	0.44
1:O2:42:LEU:HD23	1:O2:45:GLU:OE2	2.18	0.44
1:O2:65:LEU:HD13	1:O2:90:PHE:CE1	2.48	0.44
1:O6:246:LEU:HD22	1:O6:352:SER:HA	2.00	0.44
1:O6:393:ALA:C	1:O6:395:LEU:N	2.71	0.44
2:P3:75:VAL:HG11	2:P3:94:SER:HB2	2.00	0.44
2:P3:274:PRO:HG3	2:P3:286:LEU:HD11	2.00	0.44
1:P8:54:ALA:O	1:P8:55:THR:HG23	2.18	0.44
2:P9:50:ASN:O	2:P9:64:ARG:NH2	2.50	0.44
2:P9:182:VAL:HG22	1:Q0:256:ASN:HD21	1.81	0.44
2:P9:387:ILE:HD12	2:P9:390:ARG:NH2	2.31	0.44
2:Q3:116:ASP:OD1	2:Q3:156:ARG:NH1	2.39	0.44
2:Q3:261:PRO:CG	2:Q3:346:TRP:HH2	2.31	0.44
1:Q4:218:THR:H	20:6F:184:ARG:NH1	2.15	0.44
2:Q5:175:PRO:HB3	2:Q5:390:ARG:HE	1.83	0.44
2:Q5:234:VAL:HG13	2:Q5:376:CYS:SG	2.58	0.44
1:Q8:46:ARG:NH2	1:Q8:240:LEU:HD12	2.33	0.44
1:Q8:208:TYR:CE1	1:Q8:225:LEU:HD11	2.53	0.44
1:Q8:406:MET:O	1:Q8:409:THR:HG22	2.18	0.44
2:R1:155:GLU:OE2	2:R1:197:HIS:HE1	2.01	0.44
2:R3:209:ILE:HG23	2:R3:230:LEU:HD21	2.00	0.44
1:R4:309:ARG:O	1:R4:372:THR:HG22	2.17	0.44
1:R4:391:ARG:NH1	1:R4:391:ARG:CG	2.54	0.44
2:R5:263:PRO:HB2	17:5T:84:ARG:HG2	1.99	0.44
1:R6:391:ARG:O	2:R7:262:TYR:OH	2.33	0.44
1:R8:49:VAL:HG11	1:R8:241:ARG:HG2	2.00	0.44
2:R9:97:GLU:OE1	1:S0:251:ARG:NH2	2.47	0.44
1:S0:92:PHE:CE2	24:6Z:40:GLN:CG	2.99	0.44
1:S2:233:MET:O	1:S2:237:THR:HG22	2.18	0.44
1:S2:309:ARG:H	1:S2:372:THR:HG22	1.83	0.44
1:S8:94:GLN:CD	24:6W:42:GLU:OE1	2.56	0.44
2:T1:188:VAL:O	2:T1:191:THR:HG22	2.18	0.44
1:T2:238:CYS:SG	1:T2:239:CYS:N	2.91	0.44
2:T3:223:THR:OG1	1:T4:245:GLN:NE2	2.51	0.44
1:T4:404:ASP:OD2	1:T4:406:MET:HG2	2.18	0.44
2:T5:133:GLN:HB3	2:T5:252:ILE:HG21	2.00	0.44
2:U1:328:VAL:O	2:U1:332:VAL:HG22	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U2:309:ARG:H	1:U2:372:THR:CG2	2.30	0.44
1:U4:166:THR:HG1	1:U4:199:CYS:HG	1.64	0.44
2:U7:73:THR:O	2:U7:77:GLU:HG2	2.18	0.44
2:U9:311:LYS:HG2	2:U9:342:GLN:HG3	2.00	0.44
1:V0:174:LYS:HA	1:V0:174:LYS:HD3	1.91	0.44
1:V2:6:HIS:CE1	1:V2:136:CYS:HG	2.35	0.44
1:V6:252:LYS:HA	1:V6:255:VAL:HG12	2.00	0.44
1:V6:266:PHE:HE1	1:V6:370:ASN:HD22	1.64	0.44
1:W4:3:GLU:HG3	1:W4:127:CYS:SG	2.58	0.44
2:W7:3:GLU:N	2:W7:3:GLU:OE1	2.50	0.44
2:W9:20:CYS:HA	2:W9:232:ALA:HB1	2.00	0.44
2:W9:172:TYR:CZ	2:W9:203:MET:SD	3.11	0.44
2:W9:328:VAL:O	2:W9:332:VAL:HG22	2.18	0.44
1:X0:3:GLU:HG3	1:X0:127:CYS:SG	2.57	0.44
1:X2:200:MET:N	1:X2:200:MET:SD	2.91	0.44
2:X3:89:PRO:HD2	2:Y9:283:HIS:ND1	2.32	0.44
1:X4:135:VAL:HG22	1:X4:137:HIS:HD2	1.83	0.44
1:X6:204:ASN:OD1	39:X6:502:GDP:O2'	2.35	0.44
2:X9:405:VAL:HG11	2:X9:415:GLU:OE2	2.18	0.44
1:Y0:19:LYS:NZ	1:Y0:227:HIS:HD2	2.16	0.44
2:Y1:31:GLN:HE21	2:Y1:37:PRO:HG3	1.83	0.44
2:Y1:179:THR:O	1:Y2:350:LYS:HD2	2.18	0.44
2:Y1:182:VAL:HG22	2:Y1:185:TYR:HB2	1.99	0.44
2:Y1:318:MET:HE2	2:Y1:318:MET:HB3	1.83	0.44
2:Y3:62:VAL:HG12	2:Y3:88:HIS:CD2	2.52	0.44
2:Y3:147:SER:OG	2:Y3:190:SER:HB2	2.17	0.44
1:Y4:50:TYR:OH	1:Y4:237:THR:HB	2.18	0.44
1:Y8:11:GLN:NE2	39:Y8:501:GDP:O3B	2.51	0.44
1:Z0:58:ARG:HD3	1:0G:280:GLN:NE2	2.31	0.44
1:Z2:260:PHE:HB2	1:Z2:263:LEU:HG	2.00	0.44
2:Z3:111:GLY:HA2	2:Z3:114:ILE:HG22	2.00	0.44
2:Z7:91:GLN:NE2	2:0N:283:HIS:HE1	2.11	0.44
1:0C:6:HIS:CE1	1:0C:8:GLN:HG2	2.53	0.44
1:0C:236:ILE:HG13	1:0C:237:THR:HG23	2.00	0.44
1:0E:270:PHE:CD1	1:0E:366:THR:HG22	2.53	0.44
2:0F:167:LEU:HG	2:0F:252:ILE:HD11	2.00	0.44
2:0F:407:TRP:HZ2	1:0G:258:ILE:HB	1.82	0.44
1:0G:114:ASP:N	1:0G:114:ASP:OD1	2.50	0.44
2:0J:198:THR:HG21	2:0J:201:ALA:HB2	1.99	0.44
1:0K:69:GLU:N	1:0K:69:GLU:OE2	2.50	0.44
2:0L:26:LEU:HD23	2:0L:363:VAL:HG12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0M:392:LYS:HB3	1:0M:395:LEU:HD22	2.00	0.44
2:0N:353:CYS:SG	2:0N:354:GLY:N	2.90	0.44
1:0O:54:ALA:HA	1:1E:283:ALA:HB2	1.99	0.44
1:0O:270:PHE:CD2	1:0O:273:LEU:HD21	2.52	0.44
1:0Q:27:GLU:CD	1:0Q:241:ARG:HH12	2.22	0.44
1:0S:180:VAL:HG23	1:0S:183:TYR:HD1	1.83	0.44
1:0S:312:THR:OG1	1:0S:313:ALA:N	2.51	0.44
2:0V:8:HIS:CD2	2:0V:17:GLY:HA3	2.53	0.44
2:0V:384:ILE:HG13	2:0V:432:PHE:CE1	2.53	0.44
1:0W:20:PHE:O	1:0W:24:VAL:HG23	2.18	0.44
2:0Z:271:SER:OG	2:0Z:377:MET:HB3	2.18	0.44
2:1D:101:ASN:ND2	2:1D:143:GLY:HA2	2.33	0.44
1:1G:113:ILE:HG13	1:1G:114:ASP:N	2.33	0.44
2:1H:9:ILE:HD13	2:1H:150:GLY:HA2	2.00	0.44
1:1K:375:GLN:HG3	1:1K:376:GLU:OE2	2.18	0.44
1:1O:6:HIS:CE1	1:1O:8:GLN:HG2	2.53	0.44
1:1O:135:VAL:O	1:1O:166:THR:HA	2.18	0.44
1:1Q:282:ARG:NH2	1:1Q:288:GLU:HG3	2.32	0.44
1:1S:178:THR:OG1	1:1S:179:VAL:N	2.51	0.44
2:1T:414:GLU:OE1	2:1T:414:GLU:N	2.51	0.44
1:1U:83:GLN:O	1:2K:281:TYR:OH	2.25	0.44
2:1X:370:LYS:HD2	9:4Z:387:ARG:HB3	2.00	0.44
2:1Z:123:ARG:NH2	38:7Z:37:TYR:HA	2.32	0.44
2:2D:66:ILE:O	2:2D:66:ILE:HG13	2.18	0.44
1:2E:51:PHE:HB3	1:2E:59:TYR:HB3	2.00	0.44
1:2E:173:PRO:HG2	1:2E:380:ARG:HH21	1.83	0.44
2:2H:5:ILE:HG22	2:2H:64:ARG:HB3	2.00	0.44
2:2J:88:HIS:CD2	2:2J:90:GLU:HB3	2.53	0.44
1:2M:1:MET:O	1:2M:129:CYS:HB3	2.18	0.44
2:2N:116:ASP:HB2	38:8D:73:TRP:HZ3	1.76	0.44
2:2N:123:ARG:CD	38:8D:75:SER:HB3	2.44	0.44
2:2P:282:TYR:CZ	10:5C:164:ASP:OD2	2.67	0.44
1:2Q:95:THR:HG23	1:2Q:96:GLY:N	2.32	0.44
1:2Q:297:LYS:HB2	1:2Q:297:LYS:HE3	1.78	0.44
2:2T:271:SER:OG	2:2T:301:MET:SD	2.76	0.44
2:2T:312:TYR:HD1	2:2T:381:SER:HG	1.64	0.44
2:2V:116:ASP:OD2	2:2V:156:ARG:NH1	2.51	0.44
1:2W:309:ARG:NH1	1:2W:339:SER:O	2.50	0.44
2:2X:304:LYS:HA	2:2X:304:LYS:HD2	1.81	0.44
2:2Z:66:ILE:O	2:2Z:66:ILE:HG13	2.17	0.44
2:3B:139:ASN:N	2:3B:139:ASN:OD1	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3C:183:TYR:OH	1:3C:388:MET:HB3	2.18	0.44
1:3G:86:ARG:HB3	1:3G:89:ASN:OD1	2.18	0.44
1:3G:175:VAL:O	1:3G:175:VAL:HG23	2.18	0.44
2:3H:167:LEU:HD13	2:3H:200:VAL:HB	1.99	0.44
2:3J:246:GLY:HA2	2:3J:357:TYR:CD2	2.53	0.44
2:3N:70:LEU:HB2	2:3N:98:ASP:HA	1.98	0.44
1:3O:134:GLN:HE21	1:3O:167:PHE:HE2	1.66	0.44
1:3O:165:LEU:HD23	1:3O:165:LEU:HA	1.73	0.44
1:3S:52:ASN:OD1	1:3S:62:ARG:NH2	2.51	0.44
2:3T:90:GLU:C	2:3T:121:ARG:HH12	2.20	0.44
2:3T:390:ARG:C	2:3T:394:LYS:HZ2	2.22	0.44
4:3Y:35:LYS:NZ	3:3Z:254:LYS:O	2.34	0.44
5:4M:127:LEU:HA	5:4M:127:LEU:HD23	1.73	0.44
7:4R:226:LEU:HD23	7:4R:226:LEU:HA	1.85	0.44
7:4R:328:ALA:O	7:4R:331:ILE:HG22	2.18	0.44
10:5A:375:GLU:HA	10:5A:378:ASN:ND2	2.33	0.44
11:5E:143:ILE:HG21	11:5E:148:LEU:HD13	2.00	0.44
12:5F:90:PRO:HB3	24:6Z:25:LYS:HB2	1.99	0.44
13:5I:124:VAL:HG21	13:5I:131:GLU:OE2	2.17	0.44
13:5J:124:VAL:HG21	13:5J:131:GLU:OE2	2.17	0.44
14:5L:590:VAL:HG21	14:5L:622:TRP:CZ3	2.53	0.44
14:5N:165:THR:CG2	14:5N:171:MET:SD	3.06	0.44
14:5N:399:SER:HG	14:5N:401:TRP:HE1	1.57	0.44
15:5O:36:GLU:OE2	15:5O:49:ARG:CG	2.60	0.44
15:5O:227:TYR:C	15:5O:227:TYR:HD1	2.22	0.44
18:5Z:104:LEU:HD13	24:6W:180:TYR:CE1	2.53	0.44
22:6P:188:ARG:CD	22:6P:192:LYS:HB2	2.47	0.44
24:6X:305:VAL:O	24:6X:321:PHE:HB3	2.18	0.44
24:6Y:90:GLU:HG2	24:6Y:91:ASN:ND2	2.33	0.44
24:6Y:295:HIS:HD2	24:6Y:304:GLU:OE2	1.99	0.44
24:6Y:469:PHE:CD2	24:6Y:482:ILE:HG23	2.53	0.44
24:6Z:371:ALA:HB1	24:6Z:375:THR:OG1	2.17	0.44
31:7M:46:GLN:O	31:7M:50:MET:HG3	2.18	0.44
38:8A:122:LYS:O	38:8A:126:THR:HG23	2.18	0.44
2:4:226:ASN:ND2	26:7D:78:ALA:HB1	2.33	0.43
2:A2:279:GLU:CD	26:7F:82:PRO:HG2	2.36	0.43
2:D5:279:GLU:OE2	18:6C:178:GLN:CG	2.65	0.43
1:G2:55:THR:H	1:G2:58:ARG:HB3	1.82	0.43
1:G2:109:GLY:HA2	1:G2:147:MET:CE	2.48	0.43
2:G3:420:GLU:HA	2:G3:423:GLU:HG3	1.99	0.43
1:G4:107:THR:OG1	1:G4:401:GLU:OE2	2.27	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G4:391:ARG:HH22	2:G5:435:VAL:HA	1.82	0.43
1:G6:14:ASN:HD21	1:G6:65:LEU:HB3	1.83	0.43
1:G6:107:THR:OG1	1:G6:401:GLU:OE2	2.23	0.43
1:G8:3:GLU:HG2	1:G8:127:CYS:SG	2.58	0.43
2:G9:420:GLU:HA	2:G9:423:GLU:CG	2.48	0.43
1:H4:8:GLN:CD	1:H4:17:GLY:HA3	2.38	0.43
2:H9:223:THR:OG1	2:H9:224:TYR:N	2.51	0.43
2:I1:88:HIS:HE1	2:I1:90:GLU:HB3	1.83	0.43
2:I3:415:GLU:OE1	2:I3:415:GLU:N	2.51	0.43
2:I5:9:ILE:HG21	2:I5:153:LEU:HD21	1.98	0.43
2:I7:55:GLU:HG2	2:I7:61:HIS:CE1	2.53	0.43
1:I8:260:PHE:HB2	1:I8:263:LEU:HD23	1.99	0.43
1:I8:359:LYS:HD2	1:I8:360:GLY:N	2.32	0.43
1:J0:69:GLU:C	1:J0:92:PHE:HZ	2.21	0.43
1:J2:68:LEU:HD12	1:J2:97:ALA:HB2	2.00	0.43
2:J7:368:LEU:HD23	2:J7:368:LEU:HA	1.88	0.43
1:J8:25:SER:OG	1:J8:30:ILE:O	2.36	0.43
2:J9:72:PRO:HD2	1:K0:2:ARG:NH1	2.32	0.43
2:J9:121:ARG:HE	2:J9:124:LYS:NZ	2.16	0.43
2:J9:200:VAL:HG13	2:J9:268:MET:HE3	2.00	0.43
2:K1:8:HIS:HD2	2:K1:13:GLY:O	2.00	0.43
2:K1:184:PRO:HG2	2:K1:394:LYS:HG2	2.00	0.43
2:K3:66:ILE:O	2:K3:66:ILE:HG13	2.18	0.43
2:K3:328:VAL:O	2:K3:332:VAL:HG22	2.17	0.43
1:K6:165:LEU:HD23	1:K6:165:LEU:HA	1.89	0.43
1:K8:50:TYR:OH	1:K8:237:THR:HB	2.17	0.43
1:K8:211:CYS:HA	1:K8:215:LEU:HB2	1.99	0.43
2:L1:325:PRO:HA	2:L1:328:VAL:HG12	2.00	0.43
1:L2:70:PRO:N	1:L2:92:PHE:HZ	2.16	0.43
1:L2:192:LEU:HD23	1:L2:192:LEU:HA	1.84	0.43
2:L3:149:LEU:HA	2:L3:152:LEU:HB3	2.00	0.43
1:L6:86:ARG:HG2	1:L6:88:ASP:H	1.83	0.43
1:L6:309:ARG:H	1:L6:372:THR:HG22	1.83	0.43
2:L7:333:ALA:O	2:L7:337:THR:HG23	2.18	0.43
2:M1:271:SER:OG	2:M1:377:MET:HB3	2.18	0.43
2:M3:46:ASP:HB2	2:M3:49:PHE:HD2	1.80	0.43
1:M4:317:PHE:HB3	1:M4:321:MET:SD	2.57	0.43
1:M6:208:TYR:CE1	1:M6:225:LEU:HD11	2.53	0.43
2:M7:315:CYS:SG	2:M7:316:CYS:N	2.91	0.43
1:N2:199:CYS:SG	1:N2:265:PHE:HD1	2.40	0.43
2:N3:60:LYS:NZ	2:N3:85:GLN:HG2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N6:204:ASN:HD21	39:N6:503:GDP:N2	2.16	0.43
2:N7:289:ALA:HB3	32:7O:20:THR:HG22	1.99	0.43
1:O2:107:THR:OG1	1:O2:108:GLU:OE1	2.26	0.43
2:O3:344:VAL:HG11	2:O3:346:TRP:CE3	2.53	0.43
1:O4:344:TRP:CE3	1:O4:345:ILE:HG13	2.53	0.43
2:O7:56:THR:HG22	2:Q5:285:GLN:HB2	2.00	0.43
2:O9:28:HIS:CE1	2:O9:49:PHE:HA	2.53	0.43
2:O9:189:LEU:HD11	2:O9:418:PHE:HE1	1.82	0.43
1:P4:199:CYS:HB2	1:P4:265:PHE:HD1	1.82	0.43
1:Q0:238:CYS:SG	1:Q0:239:CYS:N	2.90	0.43
1:Q2:371:SER:OG	1:Q2:372:THR:N	2.51	0.43
2:Q5:9:ILE:HG22	2:Q5:146:GLY:HA2	2.00	0.43
2:Q5:163:LYS:HD3	2:Q5:163:LYS:HA	1.84	0.43
1:Q8:7:ILE:HB	1:Q8:135:VAL:HG22	1.99	0.43
1:R0:311:LEU:HA	1:R0:311:LEU:HD23	1.73	0.43
2:R1:72:PRO:HD2	1:R2:2:ARG:HH12	1.83	0.43
2:R1:301:MET:HE1	2:R1:307:PRO:HD3	2.00	0.43
1:R4:293:MET:HG3	1:R4:367:PHE:HB2	1.99	0.43
1:R6:217:LEU:HD23	1:R6:217:LEU:HA	1.87	0.43
2:R9:76:ASP:OD2	1:S0:46:ARG:NH2	2.43	0.43
2:R9:259:LEU:HD21	2:R9:316:CYS:HB2	1.99	0.43
2:S1:237:SER:HA	2:S1:320:ARG:HD2	1.99	0.43
1:S2:405:GLU:O	1:S2:409:THR:HG23	2.17	0.43
1:S4:178:THR:O	1:S4:181:GLU:HG3	2.18	0.43
1:S4:219:THR:HB	2:S5:324:VAL:HG11	2.00	0.43
1:S4:392:LYS:HZ1	13:5H:53:PHE:HA	1.82	0.43
2:S5:187:SER:OG	2:S5:391:LEU:HD21	2.17	0.43
2:S7:76:ASP:O	2:S7:80:THR:HG23	2.18	0.43
1:S8:65:LEU:HD12	1:S8:90:PHE:CE1	2.53	0.43
1:S8:271:THR:CG2	1:S8:365:ALA:HB3	2.48	0.43
1:S8:362:LYS:NZ	7:4T:299:TYR:HB3	2.33	0.43
2:T1:11:GLN:HB3	41:T2:501:GTP:O2A	2.18	0.43
2:T3:66:ILE:HG13	2:T3:66:ILE:O	2.18	0.43
1:T6:125:GLU:HB2	3:4H:65:SER:OG	2.17	0.43
1:T6:345:ILE:HB	1:T6:348:ASN:HD21	1.82	0.43
2:T7:88:HIS:CD2	2:T7:89:PRO:HD3	2.41	0.43
1:U2:170:VAL:HG12	1:U2:202:LEU:O	2.17	0.43
1:U2:178:THR:HG23	1:U2:181:GLU:HG3	1.99	0.43
1:U2:314:SER:HA	1:U2:350:LYS:O	2.19	0.43
1:U6:42:LEU:HD23	1:U6:356:ILE:HD11	2.00	0.43
1:U6:117:LEU:HA	1:U6:120:VAL:HG12	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U6:271:THR:HG22	1:U6:289:LEU:HD23	1.99	0.43
1:U8:31:ASP:OD2	1:U8:33:THR:OG1	2.31	0.43
1:V0:309:ARG:H	1:V0:372:THR:CG2	2.31	0.43
1:V4:111:GLU:N	1:V4:111:GLU:OE1	2.51	0.43
1:V4:285:THR:H	1:V4:288:GLU:HG3	1.83	0.43
1:V6:163:MET:CE	1:V6:164:MET:H	2.30	0.43
2:V7:288:VAL:HG21	2:V7:327:ASP:HB2	2.01	0.43
1:V8:167:PHE:CZ	1:V8:233:MET:HG2	2.53	0.43
1:W0:334:GLN:NE2	1:W0:348:ASN:H	2.13	0.43
2:W1:222:PRO:CD	1:W2:324:LYS:HE3	2.48	0.43
1:W2:330:MET:HA	1:W2:333:VAL:HG12	1.99	0.43
2:W3:88:HIS:HB3	2:W3:91:GLN:HB2	1.99	0.43
2:W5:155:GLU:HG3	2:W5:197:HIS:CE1	2.53	0.43
1:W8:274:THR:OG1	1:W8:282:ARG:NH1	2.50	0.43
2:X3:334:THR:HA	2:X3:337:THR:HG22	1.99	0.43
2:X3:409:VAL:HA	2:X3:413:MET:O	2.18	0.43
1:X4:22:GLU:HG3	1:X4:81:TYR:CD1	2.52	0.43
1:X4:138:SER:OG	1:X4:139:LEU:N	2.51	0.43
1:X4:379:LYS:HZ2	1:X4:419:VAL:HB	1.82	0.43
2:X5:222:PRO:HD2	1:X6:324:LYS:HE3	2.00	0.43
2:X7:174:SER:OG	2:X7:207:GLU:HB2	2.18	0.43
1:X8:239:CYS:SG	1:X8:248:ALA:N	2.83	0.43
2:X9:216:SER:OG	2:X9:217:LEU:N	2.50	0.43
2:X9:286:LEU:O	2:X9:286:LEU:CD1	2.66	0.43
1:Y2:128:ASP:OD1	1:Y2:129:CYS:N	2.48	0.43
2:Y3:88:HIS:HB3	2:Z9:283:HIS:ND1	2.32	0.43
2:Y3:240:ALA:HB1	2:Y3:356:ASN:HD22	1.83	0.43
1:Y4:219:THR:O	1:Y4:219:THR:OG1	2.32	0.43
1:Y4:309:ARG:O	1:Y4:371:SER:OG	2.31	0.43
1:Y8:183:TYR:CZ	1:Y8:388:MET:HG2	2.52	0.43
1:Y8:326:VAL:HG12	1:Y8:330:MET:HE3	1.99	0.43
2:Y9:118:ALA:O	2:Y9:122:ILE:HG12	2.18	0.43
2:Y9:155:GLU:O	2:Y9:158:SER:OG	2.35	0.43
2:Y9:183:GLU:HG3	2:Y9:184:PRO:HD3	2.00	0.43
2:Z5:73:THR:HG23	1:Z6:2:ARG:HH12	1.83	0.43
2:Z7:76:ASP:OD2	2:Z7:79:ARG:HD2	2.18	0.43
2:0B:129:CYS:SG	2:0B:130:THR:N	2.90	0.43
1:0C:378:PHE:HA	1:0C:381:VAL:HG12	2.00	0.43
1:0E:367:PHE:O	1:0E:368:ILE:HD13	2.18	0.43
2:0F:74:VAL:O	2:0F:78:VAL:HG23	2.18	0.43
1:0G:343:GLU:OE1	1:0G:344:TRP:HD1	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0G:377:MET:SD	1:0G:380:ARG:NH1	2.91	0.43
1:0I:114:ASP:N	1:0I:114:ASP:OD1	2.48	0.43
1:0I:246:LEU:HD23	1:0I:246:LEU:HA	1.83	0.43
1:0I:301:CYS:SG	1:0I:302:ALA:N	2.91	0.43
2:0J:288:VAL:HG13	2:0J:319:TYR:HE2	1.83	0.43
1:0K:62:ARG:HG3	1:0K:123:GLU:OE2	2.18	0.43
2:0L:234:VAL:HG22	2:0L:272:TYR:CD2	2.53	0.43
1:0O:31:ASP:OD2	1:0O:33:THR:OG1	2.21	0.43
1:0O:257:LEU:HD12	1:0O:312:THR:OG1	2.18	0.43
2:0R:9:ILE:HG22	2:0R:146:GLY:HA2	1.99	0.43
2:0R:398:MET:CG	1:0S:346:PRO:HD2	2.48	0.43
1:0Y:272:PRO:HB2	1:0Y:282:ARG:HH12	1.83	0.43
2:1B:387:ILE:HG12	2:1B:390:ARG:NH2	2.32	0.43
1:1C:175:VAL:HG22	1:1C:205:GLU:HB2	1.99	0.43
2:1D:257:THR:OG1	2:1D:258:ASN:ND2	2.51	0.43
1:1E:219:THR:O	1:1E:219:THR:OG1	2.35	0.43
1:1E:233:MET:O	1:1E:237:THR:HG22	2.18	0.43
2:1F:9:ILE:HG13	2:1F:9:ILE:O	2.18	0.43
1:1K:321:MET:HG2	1:1K:363:MET:SD	2.58	0.43
2:1P:300:SER:O	2:1P:300:SER:OG	2.32	0.43
2:1R:56:THR:HG23	2:1R:60:LYS:CB	2.48	0.43
1:1S:4:ILE:HB	1:1S:50:TYR:HE1	1.83	0.43
1:1S:5:VAL:HG22	1:1S:133:PHE:CD1	2.52	0.43
2:1V:305:CYS:HB3	2:1V:387:ILE:HD11	2.00	0.43
2:1X:379:SER:OG	2:1X:380:ASN:N	2.51	0.43
2:1Z:326:LYS:HD2	2:1Z:327:ASP:N	2.33	0.43
1:2A:86:ARG:HD3	1:2A:88:ASP:HB2	2.00	0.43
1:2A:418:LEU:O	1:2A:422:TYR:HD2	1.99	0.43
1:2A:418:LEU:O	1:2A:421:GLU:HG2	2.18	0.43
1:2C:311:LEU:HD23	1:2C:311:LEU:HA	1.73	0.43
1:2E:86:ARG:HB3	1:2E:89:ASN:OD1	2.18	0.43
2:2F:221:ARG:HB3	1:2G:322:SER:OG	2.18	0.43
1:2I:324:LYS:HA	1:2I:327:ASP:OD1	2.18	0.43
2:2L:317:LEU:HB3	2:2L:319:TYR:CE1	2.53	0.43
2:2L:425:LEU:HD23	2:2L:425:LEU:HA	1.85	0.43
1:2M:178:THR:HG23	1:2M:181:GLU:HG3	1.99	0.43
2:2R:156:ARG:HA	2:2R:159:VAL:HG12	2.00	0.43
1:2S:373:ALA:O	1:2S:376:GLU:HG3	2.18	0.43
2:2T:166:LYS:N	2:2T:199:ASP:OD2	2.51	0.43
2:2T:304:LYS:HD2	2:2T:304:LYS:HA	1.78	0.43
1:2U:183:TYR:O	1:2U:187:LEU:HD13	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2V:280:LYS:HA	2:2V:283:HIS:HB3	2.01	0.43
1:2W:260:PHE:HB2	1:2W:263:LEU:HD13	2.00	0.43
2:2X:179:THR:O	1:2Y:350:LYS:HG2	2.17	0.43
2:2X:305:CYS:HB3	2:2X:387:ILE:HD11	2.00	0.43
1:2Y:95:THR:HG23	1:2Y:96:GLY:N	2.32	0.43
1:2Y:203:ASP:OD1	1:2Y:203:ASP:N	2.49	0.43
2:2Z:76:ASP:HA	2:2Z:79:ARG:HB2	1.99	0.43
2:2Z:85:GLN:HG3	14:5N:503:ARG:HH22	1.83	0.43
2:2Z:90:GLU:HG3	2:2Z:121:ARG:CZ	2.48	0.43
1:3C:86:ARG:HD3	1:3C:88:ASP:HB3	2.00	0.43
2:3D:121:ARG:HA	2:3D:121:ARG:HD2	1.84	0.43
2:3H:147:SER:HB2	2:3H:190:SER:HB3	2.00	0.43
1:3K:334:GLN:HE22	1:3K:348:ASN:H	1.65	0.43
2:3L:420:GLU:HA	2:3L:423:GLU:HG3	2.00	0.43
1:3O:354:CYS:SG	1:3O:355:ASP:N	2.91	0.43
2:3R:60:LYS:NZ	2:3R:85:GLN:O	2.51	0.43
2:3R:90:GLU:OE2	2:3R:121:ARG:NH1	2.51	0.43
2:3R:176:GLN:NE2	2:3R:207:GLU:OE2	2.52	0.43
1:3S:263:LEU:HD13	1:3S:422:TYR:CE1	2.53	0.43
4:3Y:17:ILE:HD11	4:3Y:163:ARG:HH12	1.82	0.43
3:4B:45:ARG:HD2	3:4B:48:ALA:HB2	1.99	0.43
4:4E:17:ILE:HD11	4:4E:163:ARG:HH12	1.82	0.43
4:4G:17:ILE:HD11	4:4G:163:ARG:HH12	1.82	0.43
3:4H:93:LYS:HA	3:4H:93:LYS:HD3	1.47	0.43
9:4Z:387:ARG:O	9:4Z:391:ILE:HG13	2.18	0.43
15:5P:40:ILE:HD13	37:7Y:56:MET:CB	2.47	0.43
15:5P:241:LEU:HD23	15:5P:241:LEU:HA	1.82	0.43
18:5X:73:GLN:HB3	18:5X:75:ASP:O	2.18	0.43
18:5Z:73:GLN:HB3	18:5Z:75:ASP:O	2.18	0.43
18:6A:173:HIS:HA	18:6A:212:ILE:O	2.17	0.43
18:6B:173:HIS:HA	18:6B:212:ILE:O	2.17	0.43
18:6C:173:HIS:HA	18:6C:212:ILE:O	2.17	0.43
18:6D:73:GLN:HB3	18:6D:75:ASP:O	2.17	0.43
20:6F:161:GLY:O	20:6F:166:PRO:HB3	2.17	0.43
21:6H:65:LEU:HD23	21:6H:68:ALA:HB2	2.00	0.43
22:6I:307:ARG:O	22:6I:311:VAL:HG23	2.18	0.43
22:6P:190:LEU:HA	22:6P:214:PHE:CE2	2.53	0.43
23:6Q:30:GLU:HA	23:6Q:30:GLU:OE1	2.18	0.43
24:6T:252:LYS:HD2	24:6T:253:PRO:HD2	2.00	0.43
24:6T:443:LYS:HD2	24:6T:443:LYS:N	2.32	0.43
24:6U:415:THR:HG23	24:6U:418:ASP:H	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:6W:282:ARG:NH1	24:6W:289:ARG:HD3	2.33	0.43
24:6X:19:PRO:HD2	24:6X:22:LEU:HD21	2.00	0.43
24:6X:103:LYS:HG2	24:6X:116:ILE:HG12	2.00	0.43
24:6Y:456:ASP:OD1	24:6Y:457:THR:HG23	2.18	0.43
25:7C:69:ILE:HD11	27:7G:116:ASN:C	2.38	0.43
29:7I:8:GLN:O	29:7I:12:LYS:HE2	2.18	0.43
29:7I:233:LYS:O	29:7I:237:MET:HG2	2.18	0.43
35:7U:101:LEU:HD23	35:7U:101:LEU:HA	1.88	0.43
36:7W:23:PHE:CE2	36:7W:72:LEU:HD13	2.53	0.43
36:7W:95:PHE:O	36:7W:99:GLU:HG2	2.18	0.43
37:7Y:123:ARG:HD2	37:7Y:128:TYR:OH	2.18	0.43
38:8C:92:GLU:CG	38:8C:94:LYS:HE3	2.48	0.43
1:A3:308:GLY:O	3:4H:104:PRO:HB3	2.19	0.43
1:D4:226:ASN:ND2	39:D4:501:GDP:O6	2.34	0.43
1:F2:360:GLY:C	22:6O:109:ILE:HD11	2.38	0.43
2:G3:250:VAL:HG21	2:G3:352:LYS:HE3	2.00	0.43
2:G3:282:TYR:HH	22:6M:134:ASN:ND2	2.13	0.43
2:G9:203:MET:SD	2:G9:267:PHE:HD1	2.41	0.43
2:G9:364:PRO:HG3	22:6P:164:LYS:NZ	2.33	0.43
1:H2:117:LEU:HA	1:H2:120:VAL:HG12	2.00	0.43
2:H3:4:VAL:HG23	2:H3:134:GLY:O	2.18	0.43
1:H4:191:GLN:HG3	1:H4:195:ASN:OD1	2.18	0.43
2:H7:55:GLU:HG2	2:H7:61:HIS:CE1	2.53	0.43
2:I3:71:GLU:CD	2:I3:98:ASP:HB2	2.39	0.43
1:I4:387:ALA:HA	1:I4:390:ARG:HH21	1.83	0.43
2:I5:324:VAL:HG21	2:I5:326:LYS:NZ	2.27	0.43
2:I7:172:TYR:CZ	2:I7:203:MET:SD	3.11	0.43
1:I8:117:LEU:HA	1:I8:120:VAL:HG12	2.00	0.43
1:J0:191:GLN:HA	1:J0:194:GLU:OE1	2.18	0.43
1:J6:274:THR:HG21	1:J6:279:GLN:OE1	2.18	0.43
2:J7:431:ASP:O	2:J7:435:VAL:HG22	2.17	0.43
1:J8:317:PHE:HB3	1:J8:321:MET:SD	2.58	0.43
2:J9:315:CYS:SG	2:J9:379:SER:HB3	2.58	0.43
2:K3:106:GLY:O	2:K3:149:LEU:N	2.51	0.43
1:K4:3:GLU:HB2	1:K4:130:LEU:HD23	2.00	0.43
1:K4:387:ALA:HA	1:K4:390:ARG:NE	2.32	0.43
2:K7:180:ALA:HB3	2:K7:183:GLU:HG3	2.00	0.43
2:K7:278:ALA:HA	2:K7:369:ALA:HB2	2.00	0.43
1:L0:396:HIS:H	1:L0:396:HIS:CD2	2.34	0.43
1:L4:114:ASP:OD1	1:L4:115:SER:N	2.51	0.43
2:L5:175:PRO:HB3	2:L5:390:ARG:NE	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L7:278:ALA:HB3	6:4P:209:LYS:HZ2	1.83	0.43
2:L9:397:LEU:HD23	2:L9:397:LEU:HA	1.85	0.43
1:M0:2:ARG:HE	1:M0:240:LEU:HD22	1.83	0.43
1:M2:246:LEU:HD22	1:M2:352:SER:HA	1.99	0.43
2:M5:327:ASP:N	2:M5:327:ASP:OD1	2.50	0.43
1:M6:37:HIS:HE1	15:5P:295:ASN:ND2	2.10	0.43
1:M8:228:LEU:HD23	1:M8:228:LEU:HA	1.89	0.43
2:N1:21:TRP:CZ2	2:N1:65:CYS:HB2	2.53	0.43
2:N1:425:LEU:HA	2:N1:425:LEU:HD23	1.71	0.43
2:N5:322:ASP:N	2:N5:322:ASP:OD1	2.52	0.43
1:N8:344:TRP:CE3	1:N8:345:ILE:HG13	2.53	0.43
2:N9:167:LEU:HD13	2:N9:200:VAL:HB	1.99	0.43
2:N9:216:SER:OG	2:N9:217:LEU:N	2.51	0.43
2:O3:407:TRP:O	2:O3:411:GLU:HG2	2.18	0.43
2:O5:285:GLN:HG3	19:6E:13:LYS:CE	2.48	0.43
2:O7:101:ASN:OD1	1:O8:252:LYS:HG3	2.18	0.43
2:O7:244:PHE:HB2	2:O7:356:ASN:HD21	1.82	0.43
2:O7:287:SER:HB3	2:O7:290:GLU:OE1	2.18	0.43
1:O8:211:CYS:HB3	1:O8:217:LEU:HD12	2.00	0.43
2:P3:72:PRO:HD2	1:P4:2:ARG:NH1	2.34	0.43
1:P4:122:LYS:NZ	1:R0:291:GLN:HB3	2.33	0.43
2:P5:334:THR:HA	2:P5:337:THR:HG22	2.00	0.43
1:P6:174:LYS:HE2	1:P6:174:LYS:HB3	1.74	0.43
2:P7:10:GLY:O	2:P7:14:ILE:HD12	2.18	0.43
2:P7:47:ASP:N	2:P7:47:ASP:OD1	2.50	0.43
1:P8:3:GLU:HG3	1:P8:127:CYS:HB2	1.99	0.43
1:P8:334:GLN:NE2	1:P8:348:ASN:H	2.15	0.43
2:P9:211:ASP:OD2	2:P9:215:ARG:NH1	2.51	0.43
2:P9:246:GLY:HA2	2:P9:357:TYR:CD2	2.53	0.43
2:Q1:47:ASP:N	2:Q1:47:ASP:OD1	2.51	0.43
1:Q2:180:VAL:HG23	1:Q2:184:ASN:HD21	1.83	0.43
2:Q3:123:ARG:C	2:Q3:125:LEU:N	2.72	0.43
1:Q4:220:PRO:HD2	2:Q5:326:LYS:HD3	2.01	0.43
1:R0:117:LEU:HA	1:R0:117:LEU:HD23	1.83	0.43
1:R2:317:PHE:HB3	1:R2:321:MET:SD	2.58	0.43
2:R3:155:GLU:HG2	2:R3:197:HIS:ND1	2.33	0.43
2:R9:306:ASP:HB3	2:R9:309:HIS:CD2	2.52	0.43
1:S0:380:ARG:O	1:S0:383:GLU:HG3	2.19	0.43
1:S2:121:ARG:HG2	1:S2:125:GLU:OE1	2.18	0.43
1:S6:20:PHE:HA	1:S6:230:SER:HB2	1.99	0.43
2:S9:88:HIS:CG	2:S9:89:PRO:HD2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T0:15:GLN:CD	7:4T:367:ARG:HH12	2.22	0.43
1:T0:292:GLN:HG2	1:T0:298:ASN:ND2	2.34	0.43
1:T0:405:GLU:N	1:T0:405:GLU:OE2	2.51	0.43
2:T1:335:ILE:HG23	2:T1:341:ILE:HD11	2.00	0.43
1:T2:51:PHE:HB3	1:T2:59:TYR:HB3	2.00	0.43
1:T4:418:LEU:HG	1:T4:422:TYR:CE2	2.52	0.43
1:T8:227:HIS:CE1	31:7N:3:ILE:HA	2.53	0.43
1:T8:233:MET:O	1:T8:236:ILE:HG22	2.17	0.43
2:U1:224:TYR:CD2	1:U2:245:GLN:HG2	2.53	0.43
2:U5:266:HIS:O	2:U5:266:HIS:ND1	2.51	0.43
2:U7:68:LEU:HA	2:U7:93:ILE:O	2.18	0.43
2:U7:425:LEU:HD23	2:U7:425:LEU:HA	1.76	0.43
1:V0:10:GLY:O	1:V0:14:ASN:HB2	2.17	0.43
1:V6:4:ILE:CG2	1:V6:50:TYR:HE1	2.30	0.43
2:V7:147:SER:OG	2:V7:190:SER:HB2	2.19	0.43
2:V7:224:TYR:HB2	1:V8:245:GLN:OE1	2.18	0.43
2:W1:224:TYR:CZ	1:W2:323:THR:HG21	2.53	0.43
1:W2:20:PHE:HA	1:W2:230:SER:HB3	2.00	0.43
1:W4:186:THR:HG22	1:W4:411:ALA:HB1	2.00	0.43
1:X0:43:GLN:O	1:X0:47:ILE:N	2.51	0.43
1:X2:249:ASP:HB2	1:X2:252:LYS:CD	2.49	0.43
2:X3:70:LEU:HA	2:X3:95:GLY:HA3	1.99	0.43
2:X5:5:ILE:HD11	2:X5:135:PHE:HE1	1.82	0.43
1:X6:418:LEU:O	1:X6:421:GLU:HG3	2.18	0.43
1:Y2:6:HIS:HA	1:Y2:134:GLN:O	2.18	0.43
1:Y4:46:ARG:HA	1:Y4:46:ARG:HD3	1.82	0.43
1:Y8:178:THR:HG22	1:Y8:179:VAL:H	1.83	0.43
2:Y9:73:THR:CG2	1:Z0:2:ARG:HH22	2.30	0.43
2:Y9:252:ILE:HA	2:Y9:255:PHE:CE2	2.53	0.43
1:Z0:101:TRP:HB2	1:Z0:184:ASN:OD1	2.18	0.43
1:Z2:330:MET:HA	1:Z2:333:VAL:HG12	2.00	0.43
2:Z5:306:ASP:HB3	2:Z5:309:HIS:HD2	1.82	0.43
1:Z6:239:CYS:SG	1:Z6:316:LEU:HD23	2.58	0.43
2:Z7:17:GLY:HA2	2:Z7:20:CYS:SG	2.58	0.43
2:Z7:238:LEU:HD11	2:Z7:255:PHE:CE1	2.53	0.43
2:Z9:139:ASN:O	2:Z9:171:VAL:HG23	2.18	0.43
1:0A:58:ARG:HD3	1:0Q:280:GLN:NE2	2.31	0.43
1:0C:178:THR:HG22	1:0C:179:VAL:N	2.33	0.43
1:0E:314:SER:OG	1:0E:368:ILE:HB	2.17	0.43
2:0F:248:LEU:HA	2:0F:248:LEU:HD23	1.78	0.43
2:0F:286:LEU:H	2:0F:286:LEU:HD23	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0G:371:SER:OG	1:0G:372:THR:N	2.50	0.43
2:0H:8:HIS:O	2:0H:68:LEU:HD23	2.18	0.43
1:0I:69:GLU:O	1:0I:72:THR:OG1	2.36	0.43
2:0J:153:LEU:HD23	2:0J:153:LEU:HA	1.88	0.43
2:0L:5:ILE:HD11	2:0L:135:PHE:CD1	2.54	0.43
2:0L:138:PHE:HZ	2:0L:235:ILE:HG13	1.83	0.43
2:0L:370:LYS:HD2	2:0L:370:LYS:HA	1.85	0.43
1:0M:207:LEU:HB3	1:0M:225:LEU:HD22	2.00	0.43
2:0N:344:VAL:HG21	2:0N:346:TRP:CE3	2.50	0.43
1:0O:50:TYR:OH	1:0O:237:THR:HG21	2.18	0.43
1:0U:77:ARG:HE	1:0U:90:PHE:HE2	1.64	0.43
1:0U:183:TYR:HA	1:0U:385:PHE:HE1	1.83	0.43
1:0Y:389:PHE:CD1	1:0Y:395:LEU:HD11	2.52	0.43
2:0Z:9:ILE:HG22	2:0Z:146:GLY:HA2	1.99	0.43
1:1C:178:THR:OG1	1:1C:181:GLU:HG3	2.18	0.43
1:1C:207:LEU:HB3	1:1C:225:LEU:HD22	1.99	0.43
1:1C:214:THR:O	1:1C:275:SER:OG	2.27	0.43
2:1D:100:ALA:HB1	1:1E:252:LYS:HA	1.99	0.43
1:1E:314:SER:HA	1:1E:350:LYS:O	2.19	0.43
1:1G:95:THR:OG1	1:1G:96:GLY:N	2.51	0.43
1:1K:3:GLU:HG3	1:1K:127:CYS:SG	2.58	0.43
1:1M:334:GLN:HE22	1:1M:348:ASN:H	1.64	0.43
1:1O:128:ASP:OD1	1:1O:128:ASP:N	2.47	0.43
2:1P:267:PHE:HB2	2:1P:384:ILE:HD12	1.99	0.43
1:1Q:167:PHE:HE1	1:1Q:200:MET:SD	2.41	0.43
1:1Q:203:ASP:OD1	1:1Q:204:ASN:N	2.51	0.43
2:1R:120:ASP:OD1	2:1R:121:ARG:N	2.50	0.43
2:1T:367:ASP:OD1	2:1T:367:ASP:N	2.48	0.43
1:1U:173:PRO:HD3	1:1U:380:ARG:NH1	2.33	0.43
2:1V:195:LEU:CD1	2:1V:428:LEU:HD21	2.48	0.43
2:1Z:56:THR:OG1	2:1Z:60:LYS:HB3	2.18	0.43
2:1Z:156:ARG:NH2	38:7Z:29:GLY:HA2	2.28	0.43
1:2A:414:ASN:HA	1:2A:417:ASP:OD2	2.19	0.43
1:2G:246:LEU:HD22	1:2G:352:SER:HA	2.00	0.43
2:2H:137:VAL:HG22	2:2H:168:GLY:HA2	1.98	0.43
1:2M:66:MET:HG3	1:2M:116:VAL:HG11	2.00	0.43
1:2M:178:THR:HA	2:2N:352:LYS:HD2	2.00	0.43
2:2N:203:MET:O	2:2N:204:LEU:HD12	2.18	0.43
1:2Q:334:GLN:NE2	1:2Q:348:ASN:H	2.07	0.43
2:2T:2:ARG:O	2:2T:2:ARG:HG3	2.19	0.43
1:2U:58:ARG:HG3	1:3K:280:GLN:HE22	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2Y:334:GLN:NE2	1:2Y:348:ASN:H	2.15	0.43
2:3B:327:ASP:N	2:3B:327:ASP:OD1	2.51	0.43
2:3B:339:ARG:NE	38:8C:39:LYS:HZ3	1.77	0.43
2:3F:430:LYS:O	2:3F:434:GLU:HG3	2.18	0.43
2:3J:344:VAL:HG13	2:3J:346:TRP:H	1.83	0.43
1:3M:179:VAL:HG13	2:3N:349:THR:O	2.18	0.43
1:3Q:90:PHE:HB2	3:4H:19:LEU:HD13	1.98	0.43
1:3Q:382:SER:HB3	1:3Q:415:MET:HG2	2.00	0.43
2:3R:267:PHE:HB3	2:3R:384:ILE:HG21	2.00	0.43
1:3S:185:ALA:O	1:3S:189:VAL:HG12	2.18	0.43
3:3X:45:ARG:HD2	3:3X:48:ALA:HB2	1.99	0.43
4:3Y:1:MET:HG3	4:3Y:2:PHE:HD1	1.83	0.43
3:4B:93:LYS:HA	3:4B:93:LYS:HD3	1.47	0.43
4:4C:17:ILE:HD11	4:4C:163:ARG:HH12	1.82	0.43
3:4D:38:THR:HG21	4:4E:3:LYS:HB2	1.99	0.43
3:4D:93:LYS:HD3	3:4D:93:LYS:HA	1.47	0.43
3:4F:45:ARG:HD2	3:4F:48:ALA:HB2	1.99	0.43
3:4J:253:ASN:OD1	3:4J:254:LYS:N	2.51	0.43
9:4Y:419:ASP:OD2	9:4Y:423:ARG:NH1	2.50	0.43
10:5A:264:ALA:O	10:5A:268:MET:HG2	2.18	0.43
10:5C:499:ILE:C	10:5C:499:ILE:CD1	2.87	0.43
11:5E:143:ILE:HG22	11:5E:144:PRO:O	2.18	0.43
14:5L:385:CYS:HB2	14:5L:401:TRP:CZ3	2.53	0.43
14:5M:150:THR:HG22	14:5M:166:ALA:HA	1.99	0.43
15:5O:130:LYS:HE3	15:5O:130:LYS:HB2	1.79	0.43
15:5P:6:ARG:HD3	15:5P:27:PHE:CD2	2.53	0.43
15:5P:52:TYR:CE1	15:5P:68:VAL:HG23	2.52	0.43
15:5P:172:TRP:O	15:5P:176:ILE:HG13	2.18	0.43
15:5P:216:GLU:HG2	15:5P:217:GLU:N	2.33	0.43
15:5P:338:LEU:C	15:5P:338:LEU:CD1	2.85	0.43
17:5S:224:ARG:O	17:5S:228:THR:HG23	2.17	0.43
17:5U:224:ARG:O	17:5U:228:THR:HG23	2.17	0.43
18:5Y:73:GLN:HB3	18:5Y:75:ASP:O	2.17	0.43
18:5Z:173:HIS:HA	18:5Z:212:ILE:O	2.17	0.43
18:6A:16:GLN:HG2	18:6A:114:LEU:HB3	2.01	0.43
18:6B:16:GLN:HG2	18:6B:114:LEU:HB3	2.00	0.43
18:6C:73:GLN:HB3	18:6C:75:ASP:O	2.17	0.43
20:6F:51:ALA:O	20:6F:112:PRO:HG2	2.18	0.43
20:6F:79:THR:HG23	20:6F:81:CYS:SG	2.58	0.43
20:6F:372:ARG:O	20:6F:372:ARG:HD2	2.16	0.43
22:6J:122:ALA:HB3	22:6J:128:GLU:HG3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:6M:137:GLU:HB3	22:6M:141:LYS:CE	2.48	0.43
22:6N:68:CYS:HB2	24:6Y:289:ARG:HH21	1.82	0.43
23:6R:34:PHE:CD2	23:6R:34:PHE:C	2.91	0.43
24:6U:451:LYS:HD2	24:6U:468:ARG:CZ	2.47	0.43
24:6U:615:ARG:HG2	24:6U:616:LEU:HD23	1.98	0.43
24:6V:210:VAL:HG12	24:6V:214:ARG:HD2	2.00	0.43
24:6V:252:LYS:HG2	24:6V:257:LEU:HD21	1.99	0.43
24:6Y:469:PHE:CE2	24:6Y:482:ILE:HG23	2.52	0.43
24:6Z:554:ASP:OD2	24:6Z:557:VAL:HG23	2.18	0.43
29:7J:445:ASN:HA	29:7J:448:VAL:HG12	2.00	0.43
38:8B:167:ASP:OD1	38:8B:168:PRO:CD	2.65	0.43
38:8C:201:LEU:CD1	38:8C:201:LEU:C	2.85	0.43
38:8D:163:PHE:N	38:8D:163:PHE:CD1	2.87	0.43
1:A1:337:ASN:HD21	3:4F:69:TYR:H	1.66	0.43
2:F1:364:PRO:HG2	22:6O:123:PRO:HB2	2.00	0.43
1:G2:114:ASP:N	1:G2:114:ASP:OD2	2.52	0.43
2:G7:175:PRO:HG2	2:G7:176:GLN:OE1	2.19	0.43
1:G8:396:HIS:CE1	1:G8:397:TRP:CE2	3.06	0.43
2:G9:390:ARG:O	2:G9:394:LYS:HG2	2.18	0.43
1:H2:186:THR:HG22	1:H2:411:ALA:HB1	2.01	0.43
2:H5:194:LEU:O	2:H5:198:THR:HG22	2.18	0.43
1:H8:383:GLU:HA	1:H8:386:THR:HG22	2.00	0.43
1:I0:418:LEU:HG	1:I0:422:TYR:CE2	2.50	0.43
1:I2:219:THR:O	1:I2:219:THR:OG1	2.33	0.43
2:I3:79:ARG:NH1	2:I3:92:LEU:O	2.52	0.43
2:I7:52:PHE:CE2	2:I7:243:ARG:HD3	2.54	0.43
2:I7:72:PRO:HD2	1:I8:2:ARG:NH1	2.33	0.43
1:I8:207:LEU:HB3	1:I8:225:LEU:HD22	2.01	0.43
2:I9:294:ALA:HA	2:I9:297:GLU:OE1	2.18	0.43
2:J3:276:ILE:HG23	2:J3:280:LYS:HB2	1.99	0.43
2:J5:21:TRP:CZ3	2:J5:63:PRO:HB3	2.53	0.43
2:J7:8:HIS:CD2	2:J7:138:PHE:HD2	2.36	0.43
1:K0:152:ILE:HD12	1:K0:164:MET:SD	2.58	0.43
2:K1:339:ARG:HA	2:K1:342:GLN:HE22	1.84	0.43
1:K6:180:VAL:HG23	1:K6:184:ASN:HD21	1.83	0.43
2:K7:34:GLY:HA3	2:K7:60:LYS:NZ	2.33	0.43
2:K7:88:HIS:CG	2:K7:89:PRO:CD	3.02	0.43
2:L1:85:GLN:NE2	30:7K:75:ASP:OD2	2.51	0.43
1:L2:317:PHE:HE2	1:L2:326:VAL:HG13	1.83	0.43
2:L3:102:ASN:HB3	2:L3:105:ARG:HB3	2.00	0.43
2:L3:288:VAL:O	2:L3:292:THR:OG1	2.26	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L5:286:LEU:O	2:L5:373:ARG:NH1	2.51	0.43
2:L9:116:ASP:OD1	2:L9:117:LEU:N	2.51	0.43
1:M0:174:LYS:HE2	1:M0:174:LYS:HB3	1.74	0.43
2:M1:156:ARG:HA	2:M1:159:VAL:HG12	1.99	0.43
1:M4:178:THR:CG2	1:M4:181:GLU:HG3	2.48	0.43
1:M4:178:THR:HG23	1:M4:181:GLU:HG3	2.00	0.43
2:M5:2:ARG:HA	2:M5:133:GLN:HE21	1.83	0.43
2:M5:286:LEU:HD13	2:M5:286:LEU:HA	1.89	0.43
2:M7:76:ASP:O	2:M7:80:THR:HG23	2.18	0.43
2:M7:373:ARG:HH12	30:7K:84:VAL:HG22	1.84	0.43
1:M8:39:ASP:OD1	1:M8:40:SER:N	2.51	0.43
1:M8:360:GLY:O	1:M8:361:LEU:HG	2.18	0.43
1:M8:382:SER:HB2	1:M8:415:MET:HG2	2.00	0.43
2:N1:156:ARG:O	2:N1:159:VAL:HG12	2.19	0.43
2:N1:176:GLN:HE22	2:N1:304:LYS:HE2	1.83	0.43
1:N2:49:VAL:HG11	1:N2:241:ARG:HG2	1.99	0.43
2:N3:180:ALA:HB3	2:N3:183:GLU:HB2	1.99	0.43
1:N6:77:ARG:HD3	1:N6:90:PHE:HE2	1.83	0.43
1:N6:294:TRP:CD1	1:N6:333:VAL:HG21	2.53	0.43
2:N7:72:PRO:HD2	1:N8:2:ARG:NH1	2.33	0.43
1:N8:111:GLU:HG3	25:7C:30:ARG:HH22	1.84	0.43
1:O0:350:LYS:NZ	1:O0:351:SER:O	2.33	0.43
1:O6:383:GLU:OE2	1:O6:384:GLN:HG3	2.18	0.43
2:O7:125:LEU:HD23	2:O7:125:LEU:HA	1.74	0.43
2:O9:90:GLU:O	2:O9:121:ARG:NH1	2.52	0.43
1:P4:172:SER:HB3	1:P4:175:VAL:CG2	2.49	0.43
2:P5:174:SER:HB3	2:P5:177:VAL:O	2.18	0.43
2:P9:178:SER:OG	1:Q0:347:ASN:ND2	2.52	0.43
2:Q3:123:ARG:C	2:Q3:125:LEU:H	2.22	0.43
2:Q5:90:GLU:HB2	2:Q5:121:ARG:HH22	1.83	0.43
1:Q8:174:LYS:HE2	1:Q8:174:LYS:HB3	1.77	0.43
1:R0:405:GLU:N	1:R0:405:GLU:OE1	2.52	0.43
2:R1:119:LEU:O	2:R1:122:ILE:HG22	2.18	0.43
2:R1:221:ARG:HB3	1:R2:322:SER:OG	2.18	0.43
2:R3:178:SER:HB2	1:R4:347:ASN:OD1	2.18	0.43
2:R3:227:LEU:O	2:R3:231:ILE:HG12	2.18	0.43
2:R5:420:GLU:HA	2:R5:423:GLU:OE2	2.19	0.43
1:R6:379:LYS:HG3	1:R6:419:VAL:HG11	2.00	0.43
1:R8:75:SER:O	1:R8:78:SER:OG	2.36	0.43
1:R8:113:ILE:HD11	1:R8:151:LEU:HB2	2.00	0.43
1:S2:424:GLN:HE22	17:5V:104:PHE:H	1.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S9:298:PRO:HB3	2:S9:307:PRO:HD2	2.01	0.43
1:T2:173:PRO:HD2	1:T2:380:ARG:NH2	2.32	0.43
2:T3:163:LYS:HA	2:T3:163:LYS:HD3	1.82	0.43
1:T4:274:THR:HG21	1:T4:282:ARG:HD2	2.00	0.43
1:T4:393:ALA:O	1:T4:395:LEU:N	2.51	0.43
1:T6:100:ASN:HB3	1:T6:103:LYS:HB2	1.99	0.43
1:T6:111:GLU:OE1	1:T6:111:GLU:N	2.50	0.43
2:T7:21:TRP:CD1	2:T7:87:PHE:HZ	2.36	0.43
2:T7:287:SER:HB3	2:T7:290:GLU:OE2	2.18	0.43
2:U1:65:CYS:SG	2:U1:66:ILE:N	2.91	0.43
1:U2:145:SER:OG	1:U2:146:GLY:N	2.51	0.43
1:U2:162:ARG:HA	1:U2:162:ARG:HD3	1.81	0.43
2:U5:35:GLN:HB3	2:U5:59:GLY:O	2.18	0.43
2:U5:79:ARG:O	2:U5:84:ARG:HG2	2.18	0.43
2:U7:129:CYS:SG	2:U7:130:THR:N	2.90	0.43
1:U8:289:LEU:HD11	1:U8:363:MET:HG2	2.00	0.43
2:V1:419:SER:O	2:V1:423:GLU:HG2	2.18	0.43
2:V3:200:VAL:HG13	2:V3:268:MET:HE2	1.99	0.43
1:V4:325:GLU:O	1:V4:329:GLN:HG2	2.18	0.43
1:V6:123:GLU:O	1:V6:126:SER:OG	2.34	0.43
1:V6:378:PHE:HA	1:V6:381:VAL:HG22	1.99	0.43
2:V7:53:PHE:HB3	2:V7:61:HIS:HB3	1.99	0.43
2:W3:88:HIS:CD2	2:W3:89:PRO:CD	2.98	0.43
1:W4:7:ILE:O	1:W4:135:VAL:HA	2.18	0.43
2:W9:90:GLU:OE2	2:W9:90:GLU:HA	2.18	0.43
1:X8:409:THR:HA	1:X8:412:GLU:OE2	2.18	0.43
1:Y0:344:TRP:CE3	1:Y0:345:ILE:HG13	2.53	0.43
1:Y2:3:GLU:HG3	1:Y2:127:CYS:SG	2.58	0.43
1:Y2:233:MET:O	1:Y2:237:THR:HG22	2.18	0.43
2:Y3:31:GLN:HE21	2:Y3:37:PRO:HG3	1.83	0.43
2:Y3:115:VAL:HG13	2:Y3:153:LEU:HD13	2.00	0.43
2:Y3:331:SER:O	2:Y3:334:THR:OG1	2.27	0.43
1:Y8:185:ALA:O	1:Y8:189:VAL:HG22	2.18	0.43
1:Y8:267:MET:CE	1:Y8:301:CYS:HB2	2.48	0.43
2:Y9:11:GLN:NE2	2:Y9:71:GLU:OE2	2.51	0.43
1:Z0:189:VAL:HA	1:Z0:192:LEU:HB3	2.00	0.43
1:Z2:248:ALA:HA	1:Z2:252:LYS:HD2	2.00	0.43
1:Z4:237:THR:HG23	1:Z4:241:ARG:HE	1.83	0.43
2:Z5:181:VAL:CG2	1:Z6:256:ASN:HD22	2.32	0.43
2:Z5:256:GLN:O	2:Z5:260:VAL:HB	2.18	0.43
2:Z7:19:ALA:O	2:Z7:22:GLU:HG3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z7:195:LEU:HD23	2:Z7:195:LEU:HA	1.86	0.43
2:Z7:220:GLU:OE2	2:Z7:221:ARG:HG3	2.17	0.43
1:Z8:33:THR:O	1:Z8:58:ARG:NH2	2.51	0.43
1:Z8:46:ARG:HA	1:Z8:46:ARG:HD3	1.85	0.43
1:Z8:205:GLU:HG2	1:Z8:206:ALA:H	1.82	0.43
1:Z8:219:THR:O	1:Z8:219:THR:OG1	2.31	0.43
1:Z8:274:THR:OG1	1:Z8:278:SER:OG	2.31	0.43
2:Z9:268:MET:HE3	2:Z9:378:ILE:HG22	1.99	0.43
1:0A:3:GLU:O	1:0A:131:GLN:N	2.47	0.43
1:0E:317:PHE:HE2	1:0E:326:VAL:HG13	1.82	0.43
2:0F:261:PRO:HG2	2:0F:262:TYR:CD2	2.53	0.43
1:0G:19:LYS:HG3	1:0G:226:ASN:HB2	2.01	0.43
2:0H:102:ASN:ND2	2:0H:105:ARG:HB2	2.33	0.43
2:0J:269:LEU:HD21	2:0J:301:MET:SD	2.58	0.43
1:0K:418:LEU:HD23	1:0K:418:LEU:HA	1.81	0.43
1:0O:109:GLY:O	1:0O:113:ILE:HG22	2.18	0.43
1:0O:207:LEU:HD11	1:0O:229:ILE:HD11	2.00	0.43
2:0P:83:TYR:HB3	2:0P:86:LEU:HB3	2.00	0.43
2:0R:107:HIS:CD2	2:0R:152:LEU:HG	2.53	0.43
1:0S:274:THR:OG1	1:0S:282:ARG:NH1	2.51	0.43
2:0V:117:LEU:HA	2:0V:120:ASP:OD1	2.18	0.43
2:0V:402:ARG:HA	2:0V:402:ARG:HD3	1.80	0.43
2:0X:56:THR:HG23	2:1N:285:GLN:HA	2.00	0.43
2:0X:124:LYS:HZ3	2:1N:293:ASN:HB2	1.83	0.43
2:0Z:211:ASP:OD1	2:0Z:215:ARG:NH1	2.50	0.43
2:0Z:246:GLY:HA2	2:0Z:357:TYR:CD2	2.54	0.43
1:1C:11:GLN:HB3	39:1C:502:GDP:O1A	2.18	0.43
2:1F:164:LYS:HE2	2:1F:164:LYS:HA	2.01	0.43
2:1F:170:THR:OG1	2:1F:203:MET:SD	2.76	0.43
2:1F:417:GLU:HA	2:1F:420:GLU:HG2	2.00	0.43
1:1K:274:THR:HG21	1:1K:282:ARG:HH11	1.83	0.43
2:1L:174:SER:OG	2:1L:205:ASP:HB3	2.18	0.43
2:1P:155:GLU:HB2	2:1P:197:HIS:CE1	2.53	0.43
2:1P:282:TYR:CD2	2:1P:282:TYR:C	2.92	0.43
2:1P:318:MET:HB2	2:1P:376:CYS:HB3	2.00	0.43
1:1Q:4:ILE:HB	1:1Q:50:TYR:HE1	1.83	0.43
1:1Q:102:ALA:HB2	1:1Q:403:MET:HE3	1.99	0.43
1:1U:172:SER:HB3	1:1U:175:VAL:CG2	2.48	0.43
1:1W:116:VAL:O	1:1W:120:VAL:HG22	2.19	0.43
1:2A:292:GLN:HG2	1:2A:298:ASN:ND2	2.33	0.43
2:2B:110:ILE:O	2:2B:113:GLU:HG3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2E:233:MET:O	1:2E:237:THR:HG22	2.17	0.43
2:2F:96:LYS:NZ	38:8B:64:ASP:OD1	2.48	0.43
2:2F:413:MET:HB3	2:2F:417:GLU:OE2	2.18	0.43
2:2H:90:GLU:HB3	2:2H:121:ARG:HH12	1.82	0.43
1:2I:1:MET:O	1:2I:129:CYS:HB3	2.18	0.43
1:2I:202:LEU:HD13	1:2I:300:MET:HB3	2.00	0.43
1:2K:128:ASP:OD1	1:2K:128:ASP:N	2.49	0.43
1:2K:167:PHE:CE1	1:2K:200:MET:HG3	2.53	0.43
1:2K:167:PHE:CE2	1:2K:233:MET:HG2	2.54	0.43
2:2P:251:ASP:OD2	2:2P:253:THR:N	2.51	0.43
1:2Q:167:PHE:CZ	1:2Q:233:MET:HG2	2.54	0.43
2:2R:308:ARG:HH22	38:8A:72:ASP:CB	2.26	0.43
2:2T:133:GLN:HB3	2:2T:252:ILE:CG2	2.47	0.43
1:2U:324:LYS:HE2	38:8A:19:PHE:CE2	2.53	0.43
1:2U:362:LYS:HE2	1:2U:362:LYS:HB2	1.81	0.43
2:2X:90:GLU:H	2:3N:283:HIS:CE1	2.36	0.43
2:2X:108:TYR:HA	2:2X:112:LYS:NZ	2.34	0.43
1:2Y:43:GLN:O	1:2Y:47:ILE:HG23	2.18	0.43
1:3A:167:PHE:CE2	1:3A:233:MET:HG2	2.52	0.43
2:3B:28:HIS:CE1	2:3B:49:PHE:HA	2.52	0.43
2:3B:79:ARG:O	2:3B:84:ARG:HG2	2.18	0.43
2:3B:251:ASP:OD1	2:3B:253:THR:N	2.51	0.43
1:3G:53:GLU:OE2	1:3G:53:GLU:HA	2.18	0.43
1:3I:52:ASN:ND2	1:3I:52:ASN:N	2.65	0.43
1:3I:77:ARG:NH1	3:3Z:18:LYS:O	2.51	0.43
1:3I:183:TYR:O	1:3I:187:LEU:HD13	2.19	0.43
1:3K:77:ARG:CZ	3:4B:19:LEU:HA	2.48	0.43
2:3L:220:GLU:H	2:3L:220:GLU:CD	2.20	0.43
1:3O:86:ARG:HB3	1:3O:89:ASN:OD1	2.18	0.43
2:3T:251:ASP:OD1	2:3T:254:GLU:HG2	2.18	0.43
3:3Z:45:ARG:HD2	3:3Z:48:ALA:HB2	1.99	0.43
4:4A:17:ILE:HD11	4:4A:163:ARG:HH12	1.82	0.43
3:4B:38:THR:HG22	4:4C:4:ASN:OD1	2.17	0.43
4:4G:1:MET:HG3	4:4G:2:PHE:HD1	1.83	0.43
6:4O:295:GLU:HA	6:4O:298:ARG:HD2	2.00	0.43
6:4O:303:LYS:HD2	6:4O:303:LYS:HA	1.79	0.43
6:4P:72:LYS:NZ	32:7P:88:LEU:HD13	2.34	0.43
7:4U:96:THR:O	7:4U:96:THR:OG1	2.29	0.43
7:4U:216:LEU:HD23	7:4U:216:LEU:HA	1.79	0.43
9:4Y:357:SER:O	9:4Y:360:THR:OG1	2.32	0.43
9:4Z:294:GLU:HA	9:4Z:297:ARG:CD	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:5A:331:MET:HE3	10:5A:331:MET:O	2.17	0.43
10:5A:481:LEU:HG	10:5B:154:MET:SD	2.58	0.43
14:5L:356:PHE:CZ	14:5L:369:LEU:HD13	2.53	0.43
14:5M:356:PHE:CZ	14:5M:369:LEU:HD13	2.53	0.43
14:5M:385:CYS:HB2	14:5M:401:TRP:CZ3	2.53	0.43
14:5N:150:THR:HG22	14:5N:166:ALA:HA	1.99	0.43
14:5N:220:GLN:HB2	14:5N:281:LYS:NZ	2.32	0.43
17:5T:185:LEU:HD22	17:5T:185:LEU:HA	1.77	0.43
18:5X:173:HIS:HA	18:5X:212:ILE:O	2.17	0.43
18:5Y:16:GLN:HG2	18:5Y:114:LEU:HB3	2.01	0.43
18:5Z:16:GLN:HG2	18:5Z:114:LEU:HB3	2.01	0.43
18:6A:73:GLN:HB3	18:6A:75:ASP:O	2.18	0.43
18:6B:73:GLN:HB3	18:6B:75:ASP:O	2.18	0.43
18:6C:16:GLN:HG2	18:6C:114:LEU:HB3	2.01	0.43
18:6D:16:GLN:HG2	18:6D:114:LEU:HB3	2.00	0.43
18:6D:173:HIS:HA	18:6D:212:ILE:O	2.17	0.43
21:6G:119:ASP:OD2	21:6G:120:ASP:N	2.52	0.43
21:6H:155:TRP:HB3	21:6H:191:ARG:HD3	2.00	0.43
21:6H:178:LEU:HD23	21:6H:178:LEU:HA	1.85	0.43
24:6T:417:GLU:OE2	24:6T:417:GLU:N	2.40	0.43
24:6T:569:LYS:O	24:6T:573:VAL:HG13	2.18	0.43
24:6T:591:ASP:N	24:6T:591:ASP:OD2	2.51	0.43
24:6U:106:VAL:HG22	24:6U:107:VAL:H	1.83	0.43
24:6X:130:MET:HE2	24:6X:130:MET:HB2	1.90	0.43
26:7E:53:TYR:HB2	26:7E:55:THR:HG23	2.00	0.43
29:7J:137:VAL:O	29:7J:143:ARG:NH1	2.52	0.43
34:7R:92:LEU:HD13	35:7T:36:GLN:NE2	2.33	0.43
38:8A:197:THR:HG23	38:8A:200:ALA:HB3	1.99	0.43
2:2:415:GLU:CD	4:3W:86:TYR:CZ	2.90	0.43
1:G4:5:VAL:HB	1:G4:133:PHE:HD1	1.82	0.43
1:G4:49:VAL:HG11	1:G4:241:ARG:HG2	2.01	0.43
1:G4:101:TRP:HB2	1:G4:184:ASN:OD1	2.19	0.43
2:G5:223:THR:OG1	2:G5:224:TYR:N	2.51	0.43
2:G5:322:ASP:HB3	2:G5:373:ARG:HH21	1.83	0.43
1:G6:68:LEU:HB3	1:G6:96:GLY:HA2	2.01	0.43
2:G9:88:HIS:HB3	2:I5:283:HIS:HD1	1.82	0.43
2:G9:323:VAL:HG23	2:G9:355:ILE:HG23	2.00	0.43
2:H1:393:HIS:CE1	2:H1:397:LEU:HD21	2.53	0.43
1:H2:192:LEU:HD23	1:H2:192:LEU:HA	1.86	0.43
2:H3:331:SER:O	2:H3:334:THR:OG1	2.24	0.43
1:H4:335:ASN:O	1:H4:338:SER:OG	2.37	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H6:327:ASP:OD1	1:H6:328:GLU:N	2.52	0.43
1:H8:135:VAL:HG12	1:H8:137:HIS:HD2	1.84	0.43
2:H9:66:ILE:HG13	2:H9:66:ILE:O	2.18	0.43
2:I3:344:VAL:HG22	2:I3:346:TRP:CE3	2.52	0.43
1:I4:180:VAL:HG23	1:I4:184:ASN:ND2	2.34	0.43
1:J0:21:TRP:CZ3	1:J0:61:PRO:HB3	2.53	0.43
2:J1:245:ASP:OD1	2:J1:245:ASP:N	2.48	0.43
1:J2:135:VAL:HG12	1:J2:137:HIS:HD2	1.83	0.43
2:J5:327:ASP:OD2	2:J5:327:ASP:N	2.50	0.43
2:J9:27:GLU:HG2	2:J9:361:THR:HG21	2.01	0.43
2:K1:211:ASP:OD1	2:K1:214:ARG:NH2	2.51	0.43
2:K7:413:MET:HB3	2:K7:417:GLU:OE2	2.19	0.43
1:L0:117:LEU:HA	1:L0:120:VAL:HG12	1.99	0.43
1:L0:148:GLY:O	1:L0:152:ILE:HG12	2.18	0.43
2:L1:370:LYS:HE2	6:4O:363:ARG:HB2	2.00	0.43
1:L2:128:ASP:OD1	1:L2:128:ASP:N	2.43	0.43
2:L3:346:TRP:CZ3	2:L3:435:VAL:HG13	2.53	0.43
2:L5:200:VAL:HG21	2:L5:256:GLN:HE21	1.83	0.43
2:L7:306:ASP:HB3	2:L7:309:HIS:CD2	2.53	0.43
1:M0:192:LEU:HD23	1:M0:192:LEU:HA	1.86	0.43
1:M2:58:ARG:CZ	2:N9:282:TYR:HE1	2.32	0.43
1:M4:95:THR:OG1	1:M4:96:GLY:N	2.51	0.43
2:M5:76:ASP:OD1	2:M5:77:GLU:N	2.52	0.43
1:M6:68:LEU:HD21	1:M6:112:LEU:HD22	2.01	0.43
2:N7:88:HIS:ND1	2:P5:283:HIS:HB3	2.33	0.43
2:N7:109:THR:OG1	2:N7:110:ILE:HD12	2.19	0.43
1:N8:68:LEU:HA	1:N8:93:GLY:H	1.84	0.43
2:N9:123:ARG:HG3	2:N9:123:ARG:HH11	1.83	0.43
2:N9:178:SER:OG	1:O0:347:ASN:HB3	2.17	0.43
2:N9:278:ALA:HA	2:N9:369:ALA:HB2	2.00	0.43
1:O0:123:GLU:O	1:O0:126:SER:OG	2.36	0.43
2:O1:221:ARG:NH2	37:7Y:224:PHE:CD2	2.86	0.43
2:O3:294:ALA:HA	2:O3:297:GLU:OE1	2.19	0.43
1:O4:220:PRO:HG2	2:O5:326:LYS:HE3	2.00	0.43
1:O4:379:LYS:HA	1:O4:382:SER:OG	2.18	0.43
1:O6:355:ASP:OD2	32:7P:115:THR:HG22	2.19	0.43
2:P5:407:TRP:O	2:P5:411:GLU:HG2	2.18	0.43
1:P6:139:LEU:HD22	1:P6:188:SER:OG	2.17	0.43
1:P6:268:VAL:O	1:P6:300:MET:N	2.41	0.43
1:P8:344:TRP:CE3	1:P8:345:ILE:HG12	2.54	0.43
1:Q0:252:LYS:HE3	1:Q0:350:LYS:CE	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q3:47:ASP:N	2:Q3:47:ASP:OD1	2.52	0.43
1:Q6:8:GLN:OE1	1:Q6:17:GLY:HA3	2.18	0.43
1:Q8:220:PRO:HD2	2:Q9:326:LYS:HD3	2.00	0.43
1:Q8:237:THR:O	1:Q8:241:ARG:HG3	2.18	0.43
2:Q9:137:VAL:HG22	2:Q9:168:GLY:HA2	2.00	0.43
2:R1:137:VAL:HG22	2:R1:168:GLY:HA2	2.00	0.43
1:R2:173:PRO:HD2	1:R2:380:ARG:NH2	2.33	0.43
1:R4:334:GLN:HE22	1:R4:347:ASN:CA	2.31	0.43
1:R6:117:LEU:HD23	1:R6:117:LEU:HA	1.77	0.43
1:R6:309:ARG:H	1:R6:372:THR:HG22	1.84	0.43
1:R8:112:LEU:HD23	1:R8:147:MET:SD	2.58	0.43
1:R8:278:SER:O	1:R8:278:SER:OG	2.34	0.43
1:S0:167:PHE:CZ	1:S0:233:MET:HG2	2.54	0.43
1:S0:389:PHE:O	1:S0:392:LYS:NZ	2.32	0.43
2:S1:21:TRP:HZ2	2:S1:65:CYS:HB3	1.81	0.43
2:S1:279:GLU:HG2	2:S1:280:LYS:N	2.33	0.43
1:S2:31:ASP:OD2	1:S2:37:HIS:HD2	2.02	0.43
1:S2:121:ARG:NH2	1:S2:158:GLU:OE2	2.45	0.43
1:S4:7:ILE:O	1:S4:135:VAL:HA	2.18	0.43
1:S4:213:ARG:HH21	1:S4:297:LYS:NZ	2.17	0.43
2:S5:194:LEU:O	2:S5:198:THR:OG1	2.32	0.43
2:S7:88:HIS:CG	2:S7:89:PRO:HD2	2.53	0.43
1:S8:292:GLN:HG2	1:S8:298:ASN:HD22	1.82	0.43
2:S9:434:GLU:OE1	13:5I:67:LYS:NZ	2.48	0.43
1:T0:145:SER:OG	1:T0:188:SER:OG	2.27	0.43
1:T0:278:SER:O	1:T0:278:SER:OG	2.32	0.43
1:T0:397:TRP:HZ2	2:T1:256:GLN:HB2	1.82	0.43
2:T1:33:ASP:HA	2:T1:85:GLN:HB2	2.00	0.43
2:T1:423:GLU:OE1	17:5T:19:ARG:NH1	2.51	0.43
2:T3:121:ARG:HD2	2:T3:121:ARG:HA	1.87	0.43
2:T3:167:LEU:HD21	2:T3:256:GLN:HE22	1.82	0.43
2:T5:174:SER:OG	2:T5:207:GLU:HB2	2.18	0.43
1:T6:70:PRO:HG2	2:T7:2:ARG:NH1	2.32	0.43
2:T7:5:ILE:HG22	2:T7:64:ARG:HB3	2.01	0.43
2:T7:72:PRO:HD2	1:T8:2:ARG:HH12	1.84	0.43
2:T7:266:HIS:O	2:T7:266:HIS:ND1	2.47	0.43
1:T8:109:GLY:HA2	1:T8:147:MET:SD	2.58	0.43
1:U6:183:TYR:HB3	1:U6:398:TYR:HE2	1.83	0.43
1:U6:292:GLN:HA	1:U6:295:ASP:OD2	2.17	0.43
2:U7:21:TRP:CZ3	2:U7:63:PRO:HB3	2.54	0.43
2:V1:236:SER:O	2:V1:243:ARG:NH2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V4:21:TRP:CZ3	1:V4:61:PRO:HB3	2.53	0.43
1:V4:31:ASP:OD2	1:V4:33:THR:OG1	2.34	0.43
1:V4:232:VAL:CG1	1:V4:268:VAL:HG11	2.48	0.43
2:V7:275:ILE:HG13	2:V7:275:ILE:O	2.18	0.43
2:V9:98:ASP:OD1	2:V9:100:ALA:N	2.32	0.43
1:W4:197:ASP:HB3	1:W4:198:GLU:OE1	2.19	0.43
1:W4:203:ASP:N	1:W4:203:ASP:OD1	2.50	0.43
1:W4:283:ALA:O	1:W4:284:LEU:HD23	2.19	0.43
2:W5:56:THR:HG21	2:Y1:283:HIS:O	2.18	0.43
2:W7:325:PRO:HA	2:W7:328:VAL:HG12	2.01	0.43
2:W9:135:PHE:HB2	2:W9:166:LYS:HG2	2.00	0.43
1:X0:10:GLY:HA2	1:X0:143:THR:HG23	2.00	0.43
1:X2:121:ARG:NH2	1:X2:158:GLU:OE2	2.51	0.43
1:X2:267:MET:N	1:X2:267:MET:SD	2.92	0.43
2:X3:305:CYS:SG	2:X3:306:ASP:N	2.86	0.43
2:X3:392:ASP:OD2	2:X3:422:ARG:NH1	2.51	0.43
1:X6:282:ARG:HG2	1:X6:283:ALA:O	2.18	0.43
1:X6:417:ASP:HA	1:X6:420:SER:OG	2.18	0.43
2:Y1:5:ILE:HD11	2:Y1:135:PHE:HE1	1.82	0.43
2:Y1:33:ASP:O	2:Y1:60:LYS:NZ	2.50	0.43
2:Y3:174:SER:HB2	2:Y3:177:VAL:O	2.19	0.43
2:Y3:246:GLY:HA3	2:Y3:356:ASN:HA	2.01	0.43
1:Y4:123:GLU:O	1:Y4:126:SER:OG	2.27	0.43
1:Y6:211:CYS:HB2	1:Y6:217:LEU:HD12	1.99	0.43
1:Y8:122:LYS:O	1:Y8:126:SER:OG	2.20	0.43
1:Y8:267:MET:HE1	1:Y8:303:ALA:O	2.18	0.43
2:Z1:290:GLU:HA	2:Z1:293:ASN:ND2	2.34	0.43
1:Z2:122:LYS:HD2	1:O1:292:GLN:HE22	1.84	0.43
2:Z3:151:SER:HB3	2:Z3:193:SER:OG	2.18	0.43
2:Z5:166:LYS:HB2	2:Z5:199:ASP:OD2	2.18	0.43
1:Z6:8:GLN:HG3	1:Z6:136:CYS:SG	2.58	0.43
1:Z6:183:TYR:HD2	1:Z6:398:TYR:HE2	1.66	0.43
1:Z6:403:MET:HE3	1:Z6:403:MET:HB2	1.75	0.43
2:Z7:12:ALA:O	2:Z7:16:VAL:HG23	2.18	0.43
2:Z7:70:LEU:HB3	2:Z7:97:GLU:O	2.18	0.43
2:Z7:73:THR:OG1	2:Z7:74:VAL:N	2.51	0.43
2:Z9:88:HIS:HB3	2:OP:283:HIS:CE1	2.54	0.43
2:OB:305:CYS:HB3	2:OB:387:ILE:HD11	2.00	0.43
1:OC:240:LEU:HD11	1:OC:250:LEU:HD11	2.00	0.43
1:OC:297:LYS:HA	1:OC:297:LYS:HD3	1.63	0.43
1:OE:3:GLU:HB2	1:OE:130:LEU:HD13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0E:272:PRO:C	1:0E:273:LEU:HD12	2.39	0.43
2:0F:338:LYS:HA	2:0F:338:LYS:HD2	1.75	0.43
1:0G:314:SER:HA	1:0G:350:LYS:O	2.18	0.43
1:0I:268:VAL:O	1:0I:300:MET:N	2.41	0.43
2:0L:203:MET:HE3	2:0L:267:PHE:HB3	2.00	0.43
1:0M:233:MET:O	1:0M:237:THR:HG22	2.18	0.43
2:0N:320:ARG:HD3	2:0N:360:PRO:HG3	1.99	0.43
1:0O:297:LYS:HD3	1:0O:297:LYS:HA	1.78	0.43
2:0R:83:TYR:HB3	2:0R:86:LEU:HB3	2.01	0.43
2:0V:306:ASP:HB3	2:0V:309:HIS:HD2	1.82	0.43
2:0Z:54:SER:HB2	2:0Z:128:ASN:HD21	1.82	0.43
2:0Z:60:LYS:HD2	2:0Z:60:LYS:HA	1.77	0.43
2:0Z:317:LEU:HB3	2:0Z:319:TYR:CE1	2.50	0.43
2:1B:172:TYR:CE2	2:1B:203:MET:HG2	2.53	0.43
1:1C:91:VAL:HG21	1:1C:116:VAL:HG22	2.00	0.43
2:1D:312:TYR:HB2	2:1D:343:PHE:HD1	1.84	0.43
1:1E:418:LEU:O	1:1E:421:GLU:HG2	2.19	0.43
1:1G:203:ASP:OD1	1:1G:204:ASN:N	2.52	0.43
1:1M:167:PHE:CE2	1:1M:233:MET:HG2	2.54	0.43
1:1O:123:GLU:O	1:1O:126:SER:OG	2.36	0.43
1:1Q:391:ARG:O	1:1Q:391:ARG:CG	2.66	0.43
2:1R:202:VAL:HG22	2:1R:268:MET:HB2	2.00	0.43
1:1S:198:GLU:HA	1:1S:264:HIS:HB2	2.01	0.43
1:1U:359:LYS:NZ	9:4Z:304:ALA:HB1	2.33	0.43
2:1X:65:CYS:SG	2:1X:87:PHE:HE1	2.42	0.43
2:1Z:187:SER:OG	2:1Z:391:LEU:HD21	2.18	0.43
2:2B:28:HIS:CE1	2:2B:49:PHE:HA	2.53	0.43
1:2E:60:VAL:HG23	1:2E:84:ILE:O	2.19	0.43
2:2F:185:TYR:HD2	2:2F:418:PHE:HE1	1.65	0.43
1:2G:156:ARG:NH1	1:2G:197:ASP:OD2	2.51	0.43
2:2H:212:ILE:O	2:2H:216:SER:OG	2.28	0.43
1:2I:145:SER:OG	1:2I:146:GLY:N	2.50	0.43
1:2K:273:LEU:H	1:2K:292:GLN:HE22	1.66	0.43
2:2L:204:LEU:HD23	2:2L:204:LEU:HA	1.81	0.43
1:2M:35:THR:OG1	1:2M:37:HIS:NE2	2.51	0.43
2:2N:203:MET:HE3	2:2N:267:PHE:CD1	2.50	0.43
2:2N:377:MET:O	2:2N:378:ILE:HD13	2.18	0.43
2:2P:398:MET:HG3	1:2Q:346:PRO:HD2	2.00	0.43
1:2U:248:ALA:HA	1:2U:252:LYS:HD2	2.00	0.43
1:2W:6:HIS:CE1	1:2W:8:GLN:HG2	2.54	0.43
2:2X:265:ILE:HD11	2:2X:435:VAL:HG21	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2X:394:LYS:HB2	1:2Y:346:PRO:HG3	2.01	0.43
1:2Y:86:ARG:HB3	1:2Y:89:ASN:OD1	2.18	0.43
1:3A:198:GLU:HB3	1:3A:258:ILE:HD11	2.01	0.43
2:3B:237:SER:HA	2:3B:320:ARG:HD2	2.01	0.43
1:3C:178:THR:OG1	1:3C:179:VAL:N	2.51	0.43
1:3C:239:CYS:SG	1:3C:248:ALA:N	2.78	0.43
2:3F:266:HIS:O	2:3F:266:HIS:ND1	2.51	0.43
2:3H:201:ALA:O	2:3H:268:MET:HE1	2.18	0.43
1:3I:6:HIS:CE1	1:3I:8:GLN:HG2	2.53	0.43
1:3I:209:ASP:N	1:3I:209:ASP:OD2	2.51	0.43
1:3K:86:ARG:HB3	1:3K:89:ASN:OD1	2.18	0.43
2:3N:205:ASP:OD1	2:3N:206:ASN:N	2.45	0.43
1:3Q:4:ILE:HD11	1:3Q:134:GLN:HB2	1.99	0.43
1:3Q:31:ASP:OD2	1:3Q:33:THR:OG1	2.28	0.43
1:3S:334:GLN:NE2	1:3S:348:ASN:H	2.15	0.43
3:3V:45:ARG:HB2	3:3V:45:ARG:CZ	2.48	0.43
3:3V:93:LYS:HA	3:3V:93:LYS:HD3	1.47	0.43
3:3Z:93:LYS:HD3	3:3Z:93:LYS:HA	1.47	0.43
4:4A:94:LEU:HB2	4:4A:152:LEU:HD11	1.99	0.43
4:4C:1:MET:HG3	4:4C:2:PHE:HD1	1.83	0.43
3:4D:45:ARG:HD2	3:4D:48:ALA:HB2	1.99	0.43
3:4F:93:LYS:HD3	3:4F:93:LYS:HA	1.47	0.43
6:4O:457:GLU:O	6:4O:461:LYS:HG2	2.18	0.43
7:4R:106:ASP:OD1	7:4R:106:ASP:N	2.51	0.43
7:4T:239:SER:HA	31:7M:8:ASP:OD2	2.18	0.43
7:4U:155:GLU:OE2	33:7Q:155:ARG:NH2	2.51	0.43
8:4W:288:THR:O	8:4W:292:MET:HG2	2.19	0.43
8:4W:400:GLN:O	8:4W:403:LEU:HG	2.17	0.43
10:5B:258:ILE:HG13	10:5B:259:GLU:N	2.33	0.43
12:5F:274:ARG:HA	12:5F:295:ARG:HD3	2.00	0.43
12:5F:340:ILE:HD11	12:5F:369:ALA:HB1	2.01	0.43
14:5L:150:THR:HG22	14:5L:166:ALA:HA	2.00	0.43
14:5L:291:GLU:OE2	14:5L:317:ASN:ND2	2.51	0.43
14:5N:356:PHE:CZ	14:5N:369:LEU:HD13	2.53	0.43
15:5O:334:LEU:HG	30:7K:241:LYS:NZ	2.33	0.43
18:5X:16:GLN:HG2	18:5X:114:LEU:HB3	2.01	0.43
21:6G:189:MET:HE2	21:6G:191:ARG:HD2	2.00	0.43
22:6J:204:PHE:HA	22:6J:227:TYR:OH	2.17	0.43
22:6M:138:ASP:HA	22:6M:141:LYS:HG2	2.01	0.43
24:6T:96:LEU:HD11	24:6T:191:PHE:CE2	2.53	0.43
24:6T:481:LEU:C	24:6T:482:ILE:HD12	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:6U:123:TYR:HE2	24:6U:163:PRO:HG3	1.84	0.43
24:6U:343:ARG:HB2	24:6U:345:ASP:OD2	2.17	0.43
24:6U:482:ILE:CG2	24:6U:497:PHE:HB3	2.47	0.43
24:6W:332:VAL:HG21	24:6W:342:PHE:HE1	1.83	0.43
24:6W:417:GLU:OE2	24:6W:417:GLU:N	2.42	0.43
24:6X:280:ASP:HA	24:6X:289:ARG:HB2	2.00	0.43
24:6Z:274:ARG:NE	24:6Z:372:ASP:OD2	2.43	0.43
24:6Z:480:ASN:HD21	24:6Z:503:ILE:HD12	1.83	0.43
24:7A:45:LEU:HD23	24:7A:45:LEU:HA	1.83	0.43
26:7D:58:ILE:H	26:7D:58:ILE:CD1	2.06	0.43
27:7G:196:GLU:HB2	27:7G:199:ASN:OD1	2.18	0.43
30:7K:138:GLU:HG2	30:7K:138:GLU:O	2.17	0.43
38:8B:197:THR:HG22	38:8B:199:THR:HG22	2.00	0.43
38:8D:220:VAL:HG13	38:8D:221:ARG:HG2	2.00	0.43
1:3:306:ARG:HH21	3:3X:60:PRO:HD2	1.81	0.43
1:B3:39:ASP:O	18:5Z:119:ARG:NH1	2.52	0.43
2:G5:108:TYR:O	2:G5:112:LYS:NZ	2.30	0.43
1:G6:128:ASP:OD1	1:G6:128:ASP:N	2.42	0.43
1:G6:285:THR:HB	1:G6:287:PRO:HD2	2.00	0.43
2:G7:191:THR:HA	2:G7:194:LEU:HB3	2.01	0.43
1:G8:272:PRO:HD3	1:G8:364:SER:HA	2.00	0.43
2:G9:156:ARG:O	2:G9:160:ASP:HB2	2.18	0.43
2:G9:409:VAL:HA	2:G9:413:MET:O	2.19	0.43
2:H1:327:ASP:OD1	2:H1:328:VAL:N	2.51	0.43
1:H4:174:LYS:HB3	1:H4:174:LYS:HE2	1.76	0.43
1:H4:253:LEU:HD23	1:H4:253:LEU:HA	1.93	0.43
1:H4:289:LEU:HD23	1:H4:365:ALA:HB2	2.00	0.43
1:H4:297:LYS:HA	1:H4:297:LYS:HD3	1.81	0.43
2:H5:156:ARG:HA	2:H5:159:VAL:HG12	2.00	0.43
2:H5:191:THR:HG21	2:H5:425:LEU:HD21	1.99	0.43
1:H6:219:THR:O	1:H6:219:THR:HG23	2.18	0.43
2:H7:53:PHE:O	2:H7:64:ARG:NH2	2.51	0.43
1:I2:66:MET:HE3	1:I2:66:MET:HB3	1.97	0.43
1:I4:415:MET:O	1:I4:419:VAL:HG22	2.18	0.43
1:J0:260:PHE:HB2	1:J0:263:LEU:HD23	1.99	0.43
2:J1:235:ILE:O	2:J1:239:THR:HG23	2.18	0.43
2:J3:320:ARG:HE	2:J3:320:ARG:HB3	1.61	0.43
2:J5:335:ILE:HG23	2:J5:341:ILE:HD11	2.00	0.43
1:J8:221:THR:HG22	2:J9:324:VAL:HG12	1.99	0.43
1:J8:395:LEU:O	1:J8:399:THR:HG23	2.18	0.43
2:J9:42:ILE:HG22	2:J9:43:GLY:N	2.30	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J9:200:VAL:HG13	2:J9:268:MET:CE	2.49	0.43
1:K0:48:ASN:N	1:K0:48:ASN:OD1	2.52	0.43
2:K3:53:PHE:HB3	2:K3:61:HIS:HB3	2.00	0.43
2:K3:76:ASP:OD2	1:K4:46:ARG:NH2	2.51	0.43
2:K3:221:ARG:HB3	1:K4:322:SER:HB2	1.98	0.43
1:K6:173:PRO:HB3	1:K6:384:GLN:HE22	1.83	0.43
2:L3:116:ASP:OD2	2:L3:116:ASP:N	2.51	0.43
1:L4:337:ASN:HB3	1:L4:340:TYR:HD2	1.83	0.43
2:L5:33:ASP:OD2	2:L5:35:GLN:NE2	2.51	0.43
2:L5:341:ILE:O	2:L5:341:ILE:HG13	2.18	0.43
1:L6:304:ASP:OD2	1:L6:306:ARG:HG2	2.18	0.43
2:L7:8:HIS:CD2	2:L7:138:PHE:HD2	2.36	0.43
1:M4:229:ILE:HG22	1:M4:233:MET:SD	2.58	0.43
2:N1:223:THR:HG1	1:N2:245:GLN:HE22	1.61	0.43
2:N3:173:PRO:HB3	2:N3:183:GLU:OE2	2.18	0.43
2:N7:344:VAL:HG22	2:N7:346:TRP:H	1.82	0.43
1:N8:150:LEU:O	1:N8:154:LYS:HG2	2.18	0.43
1:O0:202:LEU:CD2	1:O0:229:ILE:HG12	2.48	0.43
2:O1:21:TRP:CZ3	2:O1:63:PRO:HB3	2.52	0.43
1:O6:4:ILE:HB	1:O6:50:TYR:HE1	1.83	0.43
1:O6:138:SER:OG	1:O6:139:LEU:N	2.51	0.43
1:O8:350:LYS:NZ	1:O8:352:SER:HB2	2.33	0.43
1:P4:126:SER:HA	1:R0:291:GLN:HE22	1.84	0.43
2:P5:151:SER:O	2:P5:155:GLU:HG2	2.18	0.43
1:P6:69:GLU:C	1:P6:92:PHE:HZ	2.22	0.43
2:P7:75:VAL:HG12	2:P7:79:ARG:HE	1.82	0.43
2:P9:90:GLU:HB3	2:P9:121:ARG:NH1	2.26	0.43
1:Q0:122:LYS:NZ	1:R6:291:GLN:O	2.51	0.43
1:Q0:325:GLU:O	1:Q0:329:GLN:HG2	2.19	0.43
1:Q2:83:GLN:O	1:R8:281:TYR:OH	2.22	0.43
1:Q2:384:GLN:HG2	2:Q3:348:PRO:HB3	2.00	0.43
2:Q5:223:THR:HG22	2:Q5:224:TYR:N	2.34	0.43
1:Q8:11:GLN:HE22	2:Q9:249:ASN:H	1.65	0.43
2:R1:305:CYS:HB3	2:R1:387:ILE:HD11	2.00	0.43
1:R2:42:LEU:HD12	1:R2:42:LEU:HA	1.83	0.43
2:R3:325:PRO:HA	2:R3:328:VAL:HG22	2.01	0.43
2:R5:288:VAL:HG11	2:R5:328:VAL:HG12	2.00	0.43
1:S0:92:PHE:CE2	24:6Z:40:GLN:CD	2.80	0.43
1:S2:89:ASN:ND2	1:S2:123:GLU:OE2	2.51	0.43
1:S2:424:GLN:NE2	17:5V:104:PHE:HB2	2.34	0.43
2:S5:306:ASP:HB3	2:S5:309:HIS:CD2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S6:132:GLY:HA2	1:S6:162:ARG:HB3	2.00	0.43
1:S6:295:ASP:OD1	13:5H:105:GLY:HA3	2.19	0.43
2:S9:62:VAL:HG23	2:S9:62:VAL:O	2.18	0.43
2:T3:305:CYS:SG	2:T3:306:ASP:N	2.91	0.43
1:T6:286:VAL:HG23	1:T6:287:PRO:HD3	2.01	0.43
2:T7:403:ALA:HB2	1:T8:344:TRP:HZ3	1.84	0.43
1:U8:6:HIS:CE1	1:U8:136:CYS:HG	2.37	0.43
1:V0:117:LEU:HA	1:V0:120:VAL:HG12	2.00	0.43
2:V1:119:LEU:HD23	2:V1:119:LEU:HA	1.75	0.43
2:V9:246:GLY:HA3	2:V9:356:ASN:HA	2.00	0.43
1:W0:208:TYR:CE1	1:W0:225:LEU:HD11	2.53	0.43
2:W5:72:PRO:HG3	1:W6:1:MET:HG2	2.00	0.43
2:W5:238:LEU:HD13	2:W5:318:MET:HE1	1.99	0.43
2:W5:417:GLU:HA	2:W5:420:GLU:HG2	2.01	0.43
1:W6:3:GLU:HB2	1:W6:130:LEU:HA	2.00	0.43
2:W9:113:GLU:OE1	2:W9:113:GLU:N	2.50	0.43
1:X0:163:MET:HB3	1:X0:250:LEU:HD22	1.99	0.43
1:X0:174:LYS:HD2	1:X0:174:LYS:H	1.84	0.43
1:X2:24:VAL:HG11	1:X2:50:TYR:HD2	1.83	0.43
1:X2:234:SER:HA	1:X2:237:THR:HG22	2.01	0.43
1:X8:21:TRP:CZ3	1:X8:61:PRO:HB3	2.53	0.43
1:Y2:22:GLU:HG2	1:Y2:81:TYR:CD1	2.54	0.43
1:Y4:50:TYR:HE2	1:Y4:241:ARG:HD3	1.80	0.43
1:Y4:406:MET:N	1:Y4:406:MET:SD	2.92	0.43
2:Y9:232:ALA:HA	2:Y9:235:ILE:HG22	2.01	0.43
2:Z1:68:LEU:HA	2:Z1:93:ILE:O	2.18	0.43
1:Z4:67:ASP:N	1:Z4:67:ASP:OD1	2.52	0.43
2:Z5:121:ARG:HA	2:Z5:121:ARG:HE	1.82	0.43
2:Z5:223:THR:HG23	2:Z5:225:THR:N	2.32	0.43
2:Z7:187:SER:O	2:Z7:191:THR:HG23	2.19	0.43
1:0A:50:TYR:CD2	1:0A:241:ARG:HD3	2.54	0.43
2:0B:417:GLU:HA	2:0B:420:GLU:HG2	2.01	0.43
1:0C:120:VAL:HA	1:0C:123:GLU:HG3	2.00	0.43
2:0H:239:THR:O	2:0H:242:LEU:HG	2.19	0.43
2:0H:337:THR:O	2:0H:339:ARG:NH1	2.52	0.43
1:0K:272:PRO:HB2	1:0K:282:ARG:NH1	2.34	0.43
2:0L:349:THR:HG23	2:0L:349:THR:O	2.19	0.43
1:0M:156:ARG:HA	1:0M:156:ARG:HD2	1.83	0.43
2:0N:102:ASN:ND2	2:0N:105:ARG:HB2	2.33	0.43
2:0N:207:GLU:HG3	2:0N:304:LYS:HD2	2.00	0.43
1:0Q:286:VAL:CG2	1:0Q:287:PRO:HD3	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0Q:317:PHE:HE2	1:0Q:326:VAL:HG13	1.83	0.43
1:0S:62:ARG:HG3	1:0S:123:GLU:OE2	2.19	0.43
1:0U:17:GLY:HA2	1:0U:20:PHE:HB3	2.00	0.43
1:0U:415:MET:O	1:0U:419:VAL:HG22	2.17	0.43
1:0W:396:HIS:H	1:0W:396:HIS:CD2	2.36	0.43
2:0Z:253:THR:HA	2:0Z:256:GLN:HE22	1.83	0.43
2:0Z:333:ALA:O	2:0Z:337:THR:HG23	2.18	0.43
1:1A:414:ASN:HA	1:1A:417:ASP:OD2	2.19	0.43
1:1C:7:ILE:HB	1:1C:135:VAL:HG22	2.01	0.43
1:1C:330:MET:SD	1:1C:331:LEU:N	2.92	0.43
1:1E:49:VAL:HG11	1:1E:241:ARG:HG2	2.01	0.43
1:1E:318:ARG:HG2	1:1E:354:CYS:SG	2.58	0.43
2:1F:196:GLU:OE2	2:1F:197:HIS:NE2	2.51	0.43
2:1H:238:LEU:HD12	2:1H:239:THR:HG23	2.00	0.43
1:1M:117:LEU:HA	1:1M:120:VAL:HG12	2.00	0.43
2:1P:191:THR:HG21	2:1P:425:LEU:HD21	2.00	0.43
1:1S:200:MET:HE1	1:1S:368:ILE:HG12	2.01	0.43
2:1T:167:LEU:HD13	2:1T:200:VAL:HB	2.01	0.43
2:1X:204:LEU:HD23	2:1X:231:ILE:HD12	2.01	0.43
2:2F:72:PRO:HD2	1:2G:2:ARG:NH1	2.33	0.43
2:2F:212:ILE:O	2:2F:216:SER:OG	2.31	0.43
2:2H:76:ASP:OD2	1:2I:46:ARG:NH2	2.51	0.43
2:2H:204:LEU:HD12	2:2H:204:LEU:HA	1.91	0.43
1:2I:99:ASN:ND2	2:2J:254:GLU:OE1	2.52	0.43
1:2I:177:ASP:N	1:2I:181:GLU:OE2	2.51	0.43
2:2P:220:GLU:H	2:2P:220:GLU:CD	2.21	0.43
2:2P:282:TYR:OH	10:5C:163:ARG:HB3	2.19	0.43
2:2R:280:LYS:HA	2:2R:283:HIS:HB3	2.01	0.43
1:2S:68:LEU:HD21	1:2S:112:LEU:HD22	2.01	0.43
2:2T:298:PRO:HA	2:2T:301:MET:CG	2.49	0.43
2:2V:88:HIS:HB3	2:3L:283:HIS:HB2	2.01	0.43
1:2W:21:TRP:CZ3	1:2W:61:PRO:HB3	2.53	0.43
1:2Y:317:PHE:HB3	1:2Y:321:MET:HE3	2.01	0.43
1:3A:77:ARG:CZ	38:8D:220:VAL:HA	2.49	0.43
1:3C:170:VAL:N	1:3C:202:LEU:O	2.47	0.43
1:3C:250:LEU:HD12	1:3C:250:LEU:HA	1.84	0.43
1:3G:52:ASN:HD21	1:3G:62:ARG:HG3	1.84	0.43
1:3G:170:VAL:HG22	1:3G:202:LEU:O	2.18	0.43
1:3G:202:LEU:CD2	1:3G:229:ILE:HG12	2.48	0.43
2:3H:175:PRO:HG2	2:3H:176:GLN:OE1	2.18	0.43
1:3I:90:PHE:HB2	3:3Z:19:LEU:HD13	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3M:88:ASP:OD2	3:4D:262:TYR:HB3	2.17	0.43
1:3M:268:VAL:HG23	1:3M:300:MET:HB2	2.01	0.43
1:3M:391:ARG:HH11	2:3N:346:TRP:HE3	1.66	0.43
2:3N:130:THR:HG23	2:3N:131:GLY:N	2.33	0.43
1:3O:391:ARG:HB2	2:3P:346:TRP:CH2	2.54	0.43
2:3R:195:LEU:HD21	2:3R:264:ARG:HH11	1.83	0.43
1:3S:246:LEU:HD22	1:3S:352:SER:HA	2.00	0.43
4:3W:1:MET:HG3	4:3W:2:PHE:HD1	1.83	0.43
4:4A:1:MET:HG3	4:4A:2:PHE:HD1	1.83	0.43
4:4E:94:LEU:HB2	4:4E:152:LEU:HD11	1.99	0.43
3:4H:45:ARG:HD2	3:4H:48:ALA:HB2	1.99	0.43
3:4J:282:GLU:HB3	3:4J:283:GLN:HE21	1.82	0.43
6:4O:103:ARG:HD2	6:4O:103:ARG:HA	1.70	0.43
6:4O:146:LYS:HB3	6:4O:146:LYS:HE2	1.77	0.43
6:4O:351:LYS:HE3	6:4O:351:LYS:HB3	1.93	0.43
7:4R:63:ASP:O	7:4R:67:THR:HG23	2.19	0.43
7:4R:116:VAL:HG12	21:6G:37:ILE:HG12	2.01	0.43
8:4V:400:GLN:O	8:4V:403:LEU:HG	2.19	0.43
8:4W:229:GLU:O	8:4W:233:LYS:HG3	2.18	0.43
10:5C:243:LEU:O	10:5C:246:ILE:HG12	2.19	0.43
12:5F:44:ILE:HG23	12:5F:44:ILE:O	2.17	0.43
14:5L:415:LYS:HE3	14:5L:415:LYS:HB3	1.49	0.43
14:5M:509:ALA:HB2	14:5M:513:PHE:CZ	2.54	0.43
14:5N:190:LEU:CD1	14:5N:228:PHE:HB3	2.48	0.43
14:5N:509:ALA:HB3	14:5N:513:PHE:CZ	2.54	0.43
15:5P:52:TYR:C	15:5P:54:GLU:H	2.21	0.43
19:6E:67:HIS:HE1	19:6E:72:GLU:HG3	1.84	0.43
22:6J:134:ASN:HD21	24:6T:440:ASN:HD21	1.66	0.43
22:6M:216:MET:N	22:6M:216:MET:SD	2.89	0.43
24:6T:257:LEU:HD12	24:6T:257:LEU:HA	1.76	0.43
24:6T:469:PHE:CB	24:6T:484:GLU:HA	2.48	0.43
24:6U:121:LEU:HD11	24:6U:130:MET:HE1	2.00	0.43
24:6U:490:THR:HG22	24:6U:492:ILE:HG12	2.01	0.43
24:6V:106:VAL:HG12	24:6V:113:ASN:C	2.39	0.43
24:6W:152:ARG:HD3	24:6W:160:PHE:CG	2.53	0.43
24:6W:473:TYR:OH	24:6W:478:ASP:OD1	2.33	0.43
24:6Y:436:HIS:O	24:6Y:440:ASN:ND2	2.52	0.43
27:7G:130:THR:O	27:7G:130:THR:OG1	2.37	0.43
29:7J:134:SER:O	29:7J:137:VAL:HG12	2.19	0.43
29:7J:232:ASP:OD1	29:7J:233:LYS:N	2.52	0.43
30:7K:201:TRP:CD2	30:7K:208:PRO:HG3	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:7U:107:THR:HA	35:7U:110:THR:HG22	1.99	0.43
37:7Y:59:PRO:O	37:7Y:60:LYS:C	2.54	0.43
37:7Y:74:LEU:O	37:7Y:78:VAL:HG23	2.18	0.43
38:8C:61:LYS:HB2	38:8C:61:LYS:HE2	1.59	0.43
1:1:306:ARG:HH21	3:3V:60:PRO:HD2	1.81	0.43
1:3:306:ARG:HD3	3:3X:69:TYR:CE1	2.53	0.43
2:4:280:LYS:NZ	26:7D:64:PRO:CG	2.79	0.43
2:8:372:GLN:NE2	24:6W:88:TRP:CD2	2.87	0.43
2:A2:18:ASN:O	26:7F:114:PRO:CB	2.65	0.43
1:A3:78:SER:O	24:6Z:148:ILE:HA	2.19	0.43
2:E9:88:HIS:CE1	2:G5:280:LYS:HA	2.52	0.43
1:G2:31:ASP:OD1	1:G2:34:GLY:N	2.52	0.43
1:G6:198:GLU:HA	1:G6:264:HIS:HB2	2.01	0.43
1:G6:313:ALA:HA	1:G6:369:GLY:HA2	2.00	0.43
1:G6:314:SER:OG	1:G6:368:ILE:O	2.30	0.43
2:G7:155:GLU:HB2	2:G7:197:HIS:CE1	2.53	0.43
1:G8:91:VAL:CG2	1:G8:116:VAL:HG12	2.47	0.43
2:G9:198:THR:HG21	2:G9:201:ALA:HB2	2.00	0.43
2:G9:223:THR:OG1	2:G9:224:TYR:N	2.52	0.43
2:H1:74:VAL:O	2:H1:78:VAL:HG23	2.19	0.43
1:H2:228:LEU:HD23	1:H2:228:LEU:HA	1.82	0.43
1:H2:289:LEU:HD21	1:H2:365:ALA:HB2	2.00	0.43
2:H3:66:ILE:O	2:H3:66:ILE:HG13	2.19	0.43
1:H6:20:PHE:HA	1:H6:230:SER:HB2	2.01	0.43
1:I0:167:PHE:CE2	1:I0:233:MET:HG2	2.53	0.43
2:I1:178:SER:OG	1:I2:347:ASN:HB3	2.19	0.43
2:I1:218:ASP:OD2	2:I1:280:LYS:NZ	2.52	0.43
1:I2:135:VAL:HG12	1:I2:137:HIS:HD2	1.84	0.43
2:I7:213:CYS:HA	2:I7:217:LEU:HB2	1.99	0.43
1:J4:3:GLU:HG3	1:J4:127:CYS:HB2	1.99	0.43
2:J9:109:THR:OG1	2:J9:411:GLU:OE2	2.31	0.43
2:K3:90:GLU:HG2	2:K3:121:ARG:HH22	1.84	0.43
1:K6:77:ARG:HH21	1:K6:90:PHE:HD2	1.66	0.43
2:K9:31:GLN:HB2	2:K9:33:ASP:OD1	2.18	0.43
1:L0:49:VAL:HG11	1:L0:241:ARG:HG2	2.00	0.43
1:L0:220:PRO:HD2	2:L1:326:LYS:HD2	1.99	0.43
2:L5:329:ASN:HA	2:L5:332:VAL:HG12	2.00	0.43
2:M3:229:ARG:NH1	2:M3:363:VAL:HG21	2.34	0.43
1:M4:304:ASP:HB3	1:M4:307:HIS:CG	2.53	0.43
1:M6:75:SER:CB	15:5P:48:LYS:NZ	2.81	0.43
1:M8:5:VAL:HG23	1:M8:62:ARG:HG2	1.98	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M8:285:THR:HG23	1:M8:288:GLU:H	1.84	0.43
1:N0:393:ALA:C	1:N0:395:LEU:N	2.70	0.43
2:N1:102:ASN:HB3	2:N1:105:ARG:HB3	2.01	0.43
2:N3:27:GLU:OE1	2:N3:243:ARG:NH1	2.50	0.43
2:N3:377:MET:SD	2:N3:379:SER:HB3	2.59	0.43
2:N5:73:THR:HG21	1:N6:2:ARG:HH22	1.84	0.43
2:N5:362:VAL:O	32:7O:78:TYR:OH	2.20	0.43
2:N5:407:TRP:O	2:N5:411:GLU:HG2	2.18	0.43
1:N6:77:ARG:HD2	27:7G:165:PHE:HZ	1.81	0.43
2:N7:12:ALA:O	2:N7:16:VAL:HG23	2.18	0.43
2:N9:111:GLY:O	2:N9:115:VAL:HG22	2.18	0.43
2:N9:306:ASP:HB3	2:N9:309:HIS:CD2	2.53	0.43
2:O1:229:ARG:NH2	37:7Y:241:THR:O	2.51	0.43
1:O2:51:PHE:HB3	1:O2:59:TYR:HB3	2.00	0.43
2:O3:90:GLU:HB3	2:O3:121:ARG:NH1	2.34	0.43
2:O5:123:ARG:HH11	2:O5:123:ARG:CG	2.30	0.43
1:O6:359:LYS:HD2	32:7P:110:GLN:HG2	2.00	0.43
2:O7:280:LYS:HA	2:O7:283:HIS:HB3	2.01	0.43
2:O7:345:ASP:N	2:O7:345:ASP:OD1	2.51	0.43
2:P3:210:TYR:HH	2:P3:224:TYR:HE1	1.67	0.43
2:P7:56:THR:HG23	2:P7:60:LYS:HB3	2.01	0.43
2:P7:240:ALA:HB1	2:P7:356:ASN:HD22	1.83	0.43
1:Q0:55:THR:HG21	7:4R:178:VAL:HG21	2.00	0.43
1:Q2:334:GLN:NE2	1:Q2:348:ASN:H	2.17	0.43
1:Q2:350:LYS:HZ1	1:Q2:352:SER:HB2	1.84	0.43
2:Q5:79:ARG:O	2:Q5:84:ARG:HG2	2.18	0.43
1:Q8:310:TYR:O	1:Q8:342:VAL:HG23	2.19	0.43
2:Q9:174:SER:HG	2:Q9:207:GLU:H	1.64	0.43
2:R5:164:LYS:HA	2:R5:164:LYS:HD3	1.89	0.43
1:R6:27:GLU:OE1	1:R6:241:ARG:NH1	2.49	0.43
1:R6:173:PRO:HG3	1:R6:380:ARG:HD2	2.01	0.43
1:R6:211:CYS:HA	1:R6:215:LEU:HB2	2.00	0.43
1:R6:309:ARG:H	1:R6:372:THR:CG2	2.32	0.43
2:R7:313:MET:N	2:R7:380:ASN:O	2.45	0.43
2:R9:88:HIS:ND1	2:R9:90:GLU:OE2	2.52	0.43
1:S4:375:GLN:HB3	1:S4:422:TYR:CD2	2.54	0.43
2:S7:117:LEU:HA	2:S7:120:ASP:OD1	2.18	0.43
2:T1:288:VAL:HG13	2:T1:319:TYR:HE2	1.82	0.43
1:T2:391:ARG:HG2	13:5J:55:VAL:HB	2.01	0.43
2:T3:364:PRO:HG3	21:6H:66:PRO:O	2.18	0.43
2:T5:296:PHE:HD2	2:T5:335:ILE:HD13	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U4:5:VAL:HG22	1:U4:133:PHE:CD1	2.53	0.43
1:U4:331:LEU:O	1:U4:335:ASN:ND2	2.52	0.43
1:U6:108:GLU:HA	1:U6:111:GLU:OE2	2.18	0.43
2:U9:5:ILE:HG22	2:U9:64:ARG:HD3	2.01	0.43
2:U9:129:CYS:SG	2:U9:130:THR:N	2.92	0.43
1:V2:117:LEU:HD11	1:V2:154:LYS:HB3	1.99	0.43
1:V2:123:GLU:O	1:V2:126:SER:OG	2.36	0.43
2:V3:102:ASN:HB3	2:V3:105:ARG:HB3	2.00	0.43
1:V4:175:VAL:O	1:V4:175:VAL:HG13	2.19	0.43
1:V4:324:LYS:O	1:V4:328:GLU:HG3	2.18	0.43
1:V6:418:LEU:HB2	1:V6:422:TYR:HE2	1.83	0.43
2:W1:5:ILE:O	2:W1:136:LEU:HD23	2.18	0.43
2:W1:422:ARG:NH1	2:W1:426:ALA:HB2	2.34	0.43
2:W3:236:SER:O	2:W3:243:ARG:NH2	2.50	0.43
1:W4:83:GLN:N	1:W4:83:GLN:OE1	2.51	0.43
2:W7:398:MET:CG	1:W8:346:PRO:HD2	2.48	0.43
1:W8:173:PRO:HG2	1:W8:174:LYS:NZ	2.33	0.43
2:W9:119:LEU:O	2:W9:122:ILE:HG22	2.19	0.43
2:X3:184:PRO:HB2	2:X3:398:MET:HE1	2.00	0.43
1:X4:58:ARG:NH1	1:X4:84:ILE:HA	2.34	0.43
1:X4:113:ILE:HD12	1:X4:150:LEU:HD13	2.01	0.43
1:X4:237:THR:HG23	1:X4:241:ARG:NH2	2.34	0.43
1:X4:406:MET:O	1:X4:410:GLU:HG2	2.18	0.43
2:X5:70:LEU:HD11	2:X5:149:LEU:HD21	2.01	0.43
2:X5:107:HIS:CD2	2:X5:152:LEU:HB2	2.54	0.43
2:X7:420:GLU:HA	2:X7:423:GLU:HG3	2.01	0.43
1:X8:111:GLU:OE1	1:X8:111:GLU:N	2.52	0.43
1:X8:244:GLY:HA2	1:X8:355:ASP:CG	2.39	0.43
1:X8:396:HIS:CE1	1:X8:397:TRP:CE2	3.06	0.43
2:Y1:290:GLU:OE1	2:Y1:290:GLU:N	2.38	0.43
1:Y2:50:TYR:CE2	1:Y2:241:ARG:HD3	2.54	0.43
1:Y2:214:THR:OG1	1:Y2:215:LEU:N	2.52	0.43
1:Y4:297:LYS:HA	1:Y4:297:LYS:HD3	1.74	0.43
2:Y5:70:LEU:HB3	2:Y5:97:GLU:O	2.19	0.43
2:Y9:90:GLU:OE1	2:0F:283:HIS:ND1	2.52	0.43
1:Z2:379:LYS:HA	1:Z2:379:LYS:HD2	1.71	0.43
2:Z3:233:GLN:HG3	2:Z3:272:TYR:CZ	2.53	0.43
2:Z3:252:ILE:HA	2:Z3:255:PHE:CE2	2.53	0.43
2:Z3:271:SER:HB2	2:Z3:301:MET:HG2	2.01	0.43
2:Z3:275:ILE:O	2:Z3:275:ILE:HG23	2.18	0.43
1:Z6:121:ARG:NH2	1:Z6:158:GLU:OE2	2.26	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z6:250:LEU:HA	1:Z6:253:LEU:HD12	2.00	0.43
2:Z7:33:ASP:OD2	2:Z7:35:GLN:NE2	2.51	0.43
2:Z7:252:ILE:HA	2:Z7:255:PHE:HE2	1.82	0.43
2:Z9:31:GLN:HB2	2:Z9:33:ASP:OD1	2.18	0.43
1:0C:48:ASN:OD1	1:0C:48:ASN:N	2.52	0.43
1:0C:58:ARG:HA	1:0C:58:ARG:HD2	1.84	0.43
1:0E:39:ASP:OD1	1:0E:39:ASP:N	2.45	0.43
1:0E:135:VAL:HG21	1:0E:152:ILE:HD11	2.01	0.43
1:0E:267:MET:SD	1:0E:299:MET:HB3	2.59	0.43
2:0H:403:ALA:HB2	1:0I:344:TRP:HZ3	1.83	0.43
1:0I:165:LEU:HB3	1:0I:167:PHE:CZ	2.54	0.43
1:0M:150:LEU:HD12	1:0M:150:LEU:HA	1.89	0.43
1:0M:350:LYS:NZ	1:0M:352:SER:HB3	2.32	0.43
1:0O:378:PHE:HB3	1:0O:415:MET:SD	2.58	0.43
2:0R:147:SER:OG	2:0R:148:GLY:N	2.52	0.43
2:0R:156:ARG:HA	2:0R:159:VAL:HG22	1.99	0.43
2:0V:204:LEU:HD23	2:0V:231:ILE:HD12	2.00	0.43
2:0V:420:GLU:O	2:0V:424:ASP:HB2	2.17	0.43
1:0W:162:ARG:HA	1:0W:162:ARG:HD3	1.85	0.43
2:0X:402:ARG:HA	2:0X:402:ARG:HD3	1.77	0.43
2:0Z:405:VAL:O	2:0Z:409:VAL:HG22	2.17	0.43
2:1B:289:ALA:O	2:1B:293:ASN:ND2	2.52	0.43
2:1D:266:HIS:ND1	2:1D:266:HIS:O	2.51	0.43
1:1E:374:ILE:HD11	1:1E:422:TYR:CZ	2.54	0.43
1:1G:313:ALA:HB1	1:1G:367:PHE:HE1	1.83	0.43
1:1K:5:VAL:HG12	1:1K:133:PHE:HD1	1.83	0.43
2:1L:69:ASP:OD1	2:1L:70:LEU:N	2.51	0.43
2:1N:305:CYS:SG	2:1N:306:ASP:N	2.90	0.43
2:1N:387:ILE:HG23	2:1N:390:ARG:NH2	2.34	0.43
1:1O:170:VAL:N	1:1O:202:LEU:O	2.41	0.43
1:1Q:212:PHE:HZ	2:1R:326:LYS:HG3	1.83	0.43
2:1R:402:ARG:HA	2:1R:402:ARG:HD3	1.80	0.43
2:1T:361:THR:HA	2:1T:370:LYS:NZ	2.33	0.43
1:1W:244:GLY:N	1:1W:247:ASN:HD21	2.16	0.43
2:1Z:237:SER:HA	2:1Z:320:ARG:HD2	1.99	0.43
1:2C:125:GLU:O	38:8A:56:PRO:HD3	2.18	0.43
2:2D:88:HIS:CD2	2:2T:283:HIS:CD2	3.07	0.43
1:2M:68:LEU:HD23	1:2M:68:LEU:HA	1.74	0.43
1:2Q:49:VAL:HG11	1:2Q:241:ARG:HG2	2.00	0.43
1:2S:163:MET:HB3	1:2S:250:LEU:HD22	2.01	0.43
2:2V:414:GLU:OE1	2:2V:414:GLU:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2W:95:THR:HG23	1:2W:96:GLY:N	2.33	0.43
1:2Y:105:HIS:CD2	1:2Y:150:LEU:HB2	2.53	0.43
1:2Y:391:ARG:HG3	2:2Z:262:TYR:OH	2.19	0.43
2:2Z:312:TYR:HB2	2:2Z:343:PHE:CD1	2.54	0.43
1:3A:22:GLU:HG2	1:3A:81:TYR:CD1	2.53	0.43
2:3B:50:ASN:O	2:3B:64:ARG:NH2	2.52	0.43
2:3F:88:HIS:HB3	2:3F:90:GLU:CD	2.39	0.43
2:3F:205:ASP:OD2	2:3F:206:ASN:N	2.51	0.43
1:3G:172:SER:HB2	1:3G:205:GLU:OE2	2.19	0.43
2:3H:27:GLU:OE1	2:3H:243:ARG:NH1	2.51	0.43
1:3I:170:VAL:HG22	1:3I:202:LEU:O	2.18	0.43
1:3I:173:PRO:HG2	1:3I:380:ARG:HH21	1.84	0.43
2:3J:194:LEU:O	2:3J:198:THR:OG1	2.37	0.43
2:3J:253:THR:O	2:3J:257:THR:HG23	2.19	0.43
2:3J:280:LYS:O	2:3J:283:HIS:HB3	2.19	0.43
2:3L:251:ASP:OD2	2:3L:254:GLU:HG2	2.19	0.43
1:3O:180:VAL:HB	1:3O:183:TYR:HB2	2.01	0.43
1:3O:220:PRO:HG2	2:3P:326:LYS:HB2	2.01	0.43
1:3S:213:ARG:HH21	1:3S:297:LYS:HE3	1.82	0.43
4:4C:94:LEU:HB2	4:4C:152:LEU:HD11	1.99	0.43
4:4E:1:MET:HG3	4:4E:2:PHE:HD1	1.83	0.43
4:4I:1:MET:HG3	4:4I:2:PHE:HD1	1.83	0.43
5:4L:292:ALA:O	5:4L:296:GLU:HG3	2.19	0.43
5:4M:286:LEU:HD13	28:7X:313:ALA:HA	2.01	0.43
7:4Q:320:PHE:CG	12:7B:91:LEU:HD12	2.53	0.43
7:4R:281:GLN:HA	33:7Q:186:VAL:HG11	1.99	0.43
7:4T:332:LEU:HD23	7:4T:332:LEU:HA	1.85	0.43
10:5C:256:ALA:O	10:5C:259:GLU:HG3	2.18	0.43
11:5E:23:ARG:HH11	11:5E:23:ARG:HG2	1.83	0.43
12:5F:291:VAL:O	12:5F:291:VAL:HG23	2.19	0.43
12:5F:356:THR:HG23	12:5F:368:GLU:OE2	2.18	0.43
14:5M:415:LYS:HE3	23:6R:23:ILE:HG13	2.00	0.43
14:5M:514:LYS:HG2	14:5M:557:ASN:HB3	2.00	0.43
15:5O:175:LEU:HD12	15:5O:175:LEU:HA	1.88	0.43
15:5P:143:LYS:O	15:5P:147:ASP:N	2.48	0.43
17:5T:185:LEU:HD13	17:5T:222:ILE:CG1	2.49	0.43
19:6E:12:ASN:ND2	19:6E:17:VAL:HG23	2.33	0.43
20:6F:156:ASP:OD2	20:6F:156:ASP:N	2.50	0.43
22:6I:96:LYS:HE3	22:6I:97:PRO:O	2.18	0.43
22:6K:138:ASP:N	22:6K:138:ASP:OD2	2.50	0.43
22:6L:271:ARG:O	22:6L:275:LEU:HG	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:6M:197:ASP:O	22:6M:199:SER:N	2.52	0.43
22:6O:279:LEU:O	22:6O:283:ILE:HG13	2.18	0.43
24:6T:11:LEU:HD21	24:6T:14:TYR:CE2	2.53	0.43
24:6T:274:ARG:NE	24:6T:372:ASP:OD2	2.38	0.43
24:6T:388:GLU:OE1	24:6T:389:GLU:HG3	2.18	0.43
24:6T:488:ARG:N	24:6T:488:ARG:CD	2.73	0.43
24:6U:91:ASN:O	24:6U:126:GLU:HB2	2.18	0.43
24:6U:270:LYS:C	24:6U:271:LYS:HD2	2.39	0.43
24:6W:574:ARG:O	24:6W:578:ILE:HG12	2.19	0.43
24:6Y:185:ASP:O	24:6Y:189:ARG:HG3	2.19	0.43
24:6Y:592:ASP:N	24:6Y:592:ASP:OD1	2.52	0.43
12:7B:8:LYS:HE2	12:7B:8:LYS:HB3	1.83	0.43
29:7J:87:LYS:HA	29:7J:92:TYR:CE2	2.53	0.43
29:7J:316:VAL:HG21	29:7J:326:ILE:CG2	2.47	0.43
29:7J:346:ARG:HG3	29:7J:347:PRO:HD2	2.00	0.43
34:7R:157:ARG:O	34:7R:161:THR:HG23	2.18	0.43
35:7T:37:ARG:O	35:7T:40:ILE:HG22	2.18	0.43
28:7X:451:LYS:HA	28:7X:451:LYS:HD3	1.66	0.43
38:8A:26:THR:HG23	38:8A:27:HIS:CD2	2.53	0.43
38:8C:197:THR:HG23	38:8C:200:ALA:CB	2.49	0.43
1:9:40:SER:C	26:7E:25:TYR:HE2	2.22	0.43
1:G2:219:THR:N	24:6W:418:ASP:OD1	2.48	0.43
1:G4:173:PRO:HD2	1:G4:380:ARG:HH21	1.83	0.43
2:G5:68:LEU:HD13	2:G5:93:ILE:HB	2.01	0.43
2:G5:172:TYR:OH	2:G5:191:THR:HG22	2.19	0.43
2:G7:127:ASP:OD2	2:I3:293:ASN:ND2	2.52	0.43
1:G8:177:ASP:OD1	39:G8:501:GDP:H3'	2.17	0.43
1:G8:286:VAL:CG2	1:G8:287:PRO:HD3	2.49	0.43
2:G9:76:ASP:O	2:G9:80:THR:HG22	2.18	0.43
2:G9:316:CYS:O	2:G9:377:MET:HA	2.19	0.43
2:H3:50:ASN:O	2:H3:64:ARG:NH2	2.52	0.43
1:H4:117:LEU:HA	1:H4:120:VAL:HG12	2.00	0.43
1:H6:86:ARG:HG2	1:H6:88:ASP:H	1.82	0.43
1:H6:276:ARG:HD2	24:6V:490:THR:O	2.15	0.43
1:H8:208:TYR:HA	1:H8:211:CYS:SG	2.59	0.43
2:I3:199:ASP:OD2	2:I3:256:GLN:NE2	2.51	0.43
1:I4:69:GLU:O	1:I4:72:THR:OG1	2.37	0.43
2:I5:230:LEU:O	2:I5:234:VAL:HG23	2.18	0.43
2:I7:266:HIS:O	2:I7:266:HIS:ND1	2.47	0.43
1:I8:355:ASP:O	1:I8:356:ILE:HD13	2.18	0.43
2:I9:73:THR:CG2	1:J0:2:ARG:HH22	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J2:139:LEU:HG	1:J2:168:SER:HB3	2.01	0.43
2:J3:178:SER:HB3	2:J3:183:GLU:OE2	2.19	0.43
1:J4:8:GLN:CD	1:J4:17:GLY:HA3	2.38	0.43
2:J7:21:TRP:CZ3	2:J7:63:PRO:HB3	2.53	0.43
2:J7:282:TYR:HD1	5:4M:209:LEU:CD2	1.89	0.43
2:J9:141:VAL:O	2:J9:147:SER:OG	2.37	0.43
2:J9:397:LEU:HD23	2:J9:397:LEU:HA	1.88	0.43
1:K0:287:PRO:HD3	1:K0:325:GLU:OE1	2.18	0.43
2:K1:136:LEU:HA	2:K1:167:LEU:O	2.19	0.43
1:K4:99:ASN:ND2	2:K5:254:GLU:OE1	2.51	0.43
1:K4:101:TRP:HD1	1:K4:145:SER:HG	1.62	0.43
2:K7:7:ILE:HG12	2:K7:137:VAL:HG12	2.00	0.43
2:K7:151:SER:HB2	2:K7:193:SER:OG	2.19	0.43
1:K8:4:ILE:HB	1:K8:50:TYR:HE1	1.84	0.43
1:K8:39:ASP:OD1	1:K8:40:SER:N	2.50	0.43
1:K8:139:LEU:HD22	1:K8:188:SER:OG	2.17	0.43
2:K9:72:PRO:HD2	1:L0:2:ARG:NH1	2.33	0.43
2:K9:102:ASN:HB3	2:K9:105:ARG:HB3	2.00	0.43
1:L4:392:LYS:HD2	1:L4:395:LEU:HD22	2.00	0.43
1:L6:172:SER:HB3	1:L6:205:GLU:OE2	2.19	0.43
1:L6:175:VAL:HG13	2:L7:329:ASN:ND2	2.34	0.43
2:L7:233:GLN:HE22	2:L7:360:PRO:HB3	1.84	0.43
2:L9:205:ASP:OD1	2:L9:206:ASN:N	2.48	0.43
2:M1:69:ASP:OD1	2:M1:71:GLU:HG2	2.18	0.43
2:M1:88:HIS:CE1	1:N8:280:GLN:HB2	2.53	0.43
2:M1:331:SER:O	2:M1:334:THR:OG1	2.25	0.43
1:M2:117:LEU:HA	1:M2:120:VAL:HG12	2.01	0.43
1:M2:183:TYR:HB3	1:M2:398:TYR:HE2	1.83	0.43
1:M2:406:MET:N	1:M2:406:MET:SD	2.91	0.43
2:M3:91:GLN:HG3	2:M3:121:ARG:NH2	2.33	0.43
2:M3:283:HIS:CD2	30:7K:199:TYR:HH	2.29	0.43
1:M6:61:PRO:HD3	1:M6:84:ILE:HG12	2.00	0.43
1:M8:33:THR:O	1:M8:58:ARG:NE	2.50	0.43
1:M8:130:LEU:HB2	1:M8:162:ARG:HE	1.83	0.43
2:M9:167:LEU:HD13	2:M9:200:VAL:HB	2.00	0.43
2:M9:266:HIS:ND1	2:M9:266:HIS:O	2.52	0.43
2:M9:397:LEU:HD23	2:M9:397:LEU:HA	1.89	0.43
2:N1:279:GLU:HA	2:N1:282:TYR:HB3	2.00	0.43
2:N7:380:ASN:OD1	2:N7:381:SER:N	2.51	0.43
2:O5:358:GLN:NE2	19:6E:58:SER:HB2	2.34	0.43
2:O7:113:GLU:N	2:O7:113:GLU:OE2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P3:91:GLN:NE2	2:P3:121:ARG:HH21	2.17	0.43
2:P3:287:SER:OG	2:P3:288:VAL:N	2.51	0.43
2:P3:317:LEU:HB3	2:P3:319:TYR:CE1	2.52	0.43
1:P4:220:PRO:HD2	2:P5:326:LYS:HD3	2.01	0.43
2:P7:223:THR:HG23	2:P7:225:THR:H	1.84	0.43
1:P8:36:TYR:CD2	21:6G:163:THR:HG21	2.54	0.43
2:P9:5:ILE:HG22	2:P9:64:ARG:HB3	2.01	0.43
2:P9:274:PRO:HB2	2:P9:276:ILE:HG12	1.99	0.43
1:Q0:167:PHE:HE1	1:Q0:200:MET:SD	2.42	0.43
2:Q1:312:TYR:HB2	2:Q1:343:PHE:HD1	1.83	0.43
1:Q2:54:ALA:HB3	1:Q2:58:ARG:HB2	2.00	0.43
1:Q2:344:TRP:CE3	1:Q2:345:ILE:HG13	2.53	0.43
1:Q4:30:ILE:CD1	1:Q4:59:TYR:HB2	2.48	0.43
1:Q4:39:ASP:OD1	1:Q4:39:ASP:N	2.51	0.43
1:Q4:267:MET:HB2	1:Q4:301:CYS:SG	2.58	0.43
2:Q5:305:CYS:HB3	2:Q5:387:ILE:HD11	1.99	0.43
1:Q6:371:SER:OG	1:Q6:372:THR:N	2.52	0.43
1:Q8:117:LEU:HD23	1:Q8:117:LEU:HA	1.79	0.43
1:Q8:389:PHE:O	1:Q8:392:LYS:NZ	2.33	0.43
2:Q9:283:HIS:CE1	2:Q9:284:GLU:HB2	2.53	0.43
2:R1:53:PHE:O	2:R1:64:ARG:NH2	2.50	0.43
2:R1:212:ILE:O	2:R1:216:SER:OG	2.33	0.43
2:R1:306:ASP:HB3	2:R1:309:HIS:CD2	2.54	0.43
1:R6:70:PRO:HD3	1:R6:92:PHE:HZ	1.83	0.43
1:R8:54:ALA:HB3	1:R8:58:ARG:HB3	2.01	0.43
1:S0:320:ARG:HH12	12:5F:105:THR:HA	1.84	0.43
1:S0:371:SER:OG	1:S0:372:THR:N	2.51	0.43
2:S1:175:PRO:HG2	2:S1:176:GLN:OE1	2.19	0.43
2:S5:175:PRO:HB3	2:S5:390:ARG:NE	2.33	0.43
2:S7:42:ILE:HD11	12:5F:254:GLN:HG3	2.00	0.43
2:S9:5:ILE:HD11	2:S9:135:PHE:CE1	2.54	0.43
2:S9:90:GLU:HB3	2:S9:121:ARG:HH12	1.84	0.43
2:S9:123:ARG:NH2	2:S9:160:ASP:OD2	2.51	0.43
2:S9:206:ASN:OD1	41:S9:501:GTP:N2	2.52	0.43
2:S9:293:ASN:OD1	2:S9:338:LYS:NZ	2.52	0.43
1:T2:391:ARG:HE	2:T3:346:TRP:HZ2	1.66	0.43
2:T5:15:GLN:HB3	2:T5:228:ASN:HD21	1.84	0.43
2:T5:62:VAL:HG23	2:T5:62:VAL:O	2.19	0.43
1:T6:396:HIS:CD2	1:T6:396:HIS:H	2.36	0.43
2:T7:357:TYR:CD1	24:7A:20:GLN:HB3	2.53	0.43
1:T8:15:GLN:HB3	1:T8:226:ASN:ND2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U1:276:ILE:HG13	2:U1:280:LYS:HB2	2.00	0.43
2:U1:305:CYS:SG	2:U1:383:ALA:HB1	2.59	0.43
1:U2:128:ASP:OD1	1:U2:128:ASP:N	2.51	0.43
1:U4:61:PRO:HG2	1:U4:85:PHE:CE1	2.53	0.43
1:U4:69:GLU:C	1:U4:92:PHE:HZ	2.22	0.43
2:U7:88:HIS:HE1	2:W3:280:LYS:HB3	1.84	0.43
1:U8:4:ILE:HA	1:U8:132:GLY:O	2.19	0.43
2:V3:8:HIS:CD2	2:V3:138:PHE:HD2	2.36	0.43
1:V4:139:LEU:HD12	1:V4:170:VAL:HG12	2.00	0.43
1:V4:276:ARG:NH1	1:V4:279:GLN:HB3	2.34	0.43
2:V7:60:LYS:NZ	2:V7:85:GLN:O	2.46	0.43
1:V8:101:TRP:CE3	1:V8:403:MET:HE1	2.54	0.43
2:V9:90:GLU:OE1	2:V9:90:GLU:N	2.48	0.43
1:W0:250:LEU:HD23	1:W0:250:LEU:HA	1.74	0.43
1:W0:414:ASN:HA	1:W0:417:ASP:OD2	2.19	0.43
2:W1:397:LEU:HD23	2:W1:397:LEU:HA	1.84	0.43
1:W2:170:VAL:N	1:W2:202:LEU:O	2.44	0.43
1:W6:72:THR:O	1:W6:76:VAL:HG23	2.19	0.43
1:W6:117:LEU:HD23	1:W6:117:LEU:HA	1.85	0.43
2:W7:276:ILE:HD11	2:W7:281:ALA:CA	2.42	0.43
1:X2:314:SER:HB2	1:X2:350:LYS:HB3	2.00	0.43
2:X3:267:PHE:HB3	2:X3:384:ILE:HG21	2.00	0.43
1:X4:199:CYS:SG	1:X4:265:PHE:HD1	2.41	0.43
1:X6:131:GLN:HE21	1:X6:250:LEU:HD13	1.83	0.43
1:X6:198:GLU:HB3	1:X6:258:ILE:HD11	1.99	0.43
2:X7:406:HIS:HA	2:X7:409:VAL:CG1	2.45	0.43
1:X8:46:ARG:HA	1:X8:46:ARG:HD3	1.83	0.43
2:X9:286:LEU:O	2:X9:286:LEU:HD13	2.18	0.43
1:Y0:208:TYR:CE1	1:Y0:225:LEU:HD11	2.53	0.43
1:Y0:358:PRO:HG3	1:Y0:364:SER:HB3	1.99	0.43
2:Y5:427:ALA:HA	2:Y5:430:LYS:CD	2.49	0.43
1:Y6:5:VAL:HG23	1:Y6:62:ARG:HG2	2.01	0.43
1:Y6:204:ASN:HD21	39:Y6:502:GDP:HN22	1.67	0.43
1:Z0:55:THR:H	1:Z0:58:ARG:HB3	1.84	0.43
1:Z0:166:THR:OG1	1:Z0:199:CYS:HB3	2.19	0.43
1:Z0:379:LYS:HD3	1:Z0:419:VAL:CG2	2.39	0.43
1:Z2:91:VAL:HG21	1:Z2:116:VAL:HG22	2.00	0.43
1:Z2:180:VAL:HG23	1:Z2:184:ASN:ND2	2.34	0.43
2:Z3:183:GLU:CD	2:Z3:184:PRO:HD3	2.39	0.43
2:Z3:272:TYR:O	2:Z3:300:SER:OG	2.36	0.43
1:Z4:87:PRO:HA	1:Z4:90:PHE:CD2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z6:150:LEU:HD12	1:Z6:150:LEU:HA	1.80	0.43
1:Z8:95:THR:OG1	1:Z8:96:GLY:N	2.52	0.43
1:0A:8:GLN:OE1	1:0A:65:LEU:HD23	2.18	0.43
2:0B:99:ALA:HA	2:0B:105:ARG:HD3	2.00	0.43
1:0C:116:VAL:O	1:0C:120:VAL:HG22	2.18	0.43
1:0C:135:VAL:O	1:0C:166:THR:HA	2.19	0.43
1:0E:20:PHE:HA	1:0E:230:SER:OG	2.19	0.43
1:0E:297:LYS:HA	1:0E:297:LYS:HD3	1.84	0.43
2:0F:21:TRP:CH2	2:0F:63:PRO:HB3	2.54	0.43
2:0F:286:LEU:HD13	2:0F:371:VAL:HG13	2.01	0.43
1:0G:270:PHE:HD2	1:0G:273:LEU:HD21	1.84	0.43
1:0I:237:THR:O	1:0I:240:LEU:HG	2.18	0.43
1:0I:372:THR:O	1:0I:375:GLN:HG3	2.19	0.43
2:0J:221:ARG:HB3	1:0K:322:SER:OG	2.18	0.43
2:0J:274:PRO:HB2	2:0J:276:ILE:HG12	2.01	0.43
2:0J:320:ARG:O	2:0J:373:ARG:HA	2.19	0.43
2:0L:175:PRO:HB3	2:0L:390:ARG:NE	2.33	0.43
2:0N:9:ILE:HB	2:0N:139:ASN:HB3	2.01	0.43
1:0O:95:THR:OG1	1:0O:96:GLY:N	2.52	0.43
2:0P:341:ILE:HD13	2:0P:341:ILE:HA	1.86	0.43
1:0Q:169:VAL:HG12	1:0Q:202:LEU:HB3	2.00	0.43
2:0R:175:PRO:O	2:0R:394:LYS:NZ	2.52	0.43
1:0U:156:ARG:HD2	1:0U:156:ARG:HA	1.79	0.43
2:0V:170:THR:HG21	2:0V:194:LEU:HD11	2.00	0.43
1:0W:180:VAL:HG23	1:0W:184:ASN:HD21	1.84	0.43
1:0W:314:SER:HA	1:0W:350:LYS:O	2.18	0.43
2:0X:125:LEU:HD23	2:0X:125:LEU:HA	1.79	0.43
2:0X:305:CYS:SG	2:0X:306:ASP:N	2.92	0.43
1:1A:270:PHE:CD1	1:1A:366:THR:HG22	2.53	0.43
2:1B:205:ASP:OD2	2:1B:206:ASN:N	2.47	0.43
1:1C:3:GLU:O	1:1C:4:ILE:HD13	2.18	0.43
1:1C:309:ARG:H	1:1C:372:THR:HG22	1.84	0.43
1:1E:272:PRO:HA	1:1E:292:GLN:OE1	2.19	0.43
1:1E:414:ASN:HA	1:1E:417:ASP:OD2	2.19	0.43
1:1E:420:SER:O	1:1E:423:GLN:HG3	2.19	0.43
2:1F:56:THR:HG21	2:1V:283:HIS:O	2.19	0.43
1:1G:51:PHE:HB3	1:1G:59:TYR:HB3	2.01	0.43
1:1G:167:PHE:CE2	1:1G:233:MET:HG2	2.54	0.43
1:1G:315:ALA:HB1	1:1G:317:PHE:CE1	2.54	0.43
2:1L:21:TRP:CZ3	2:1L:63:PRO:HB3	2.53	0.43
2:1N:115:VAL:HG11	2:1N:152:LEU:HD23	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1Q:309:ARG:NH1	1:1Q:339:SER:O	2.51	0.43
1:1S:3:GLU:HB2	1:1S:130:LEU:HD13	2.00	0.43
1:1S:152:ILE:HD12	1:1S:164:MET:SD	2.59	0.43
1:1S:173:PRO:HD2	1:1S:380:ARG:CZ	2.49	0.43
1:1S:174:LYS:HB3	1:1S:174:LYS:HE2	1.79	0.43
1:1S:207:LEU:HB3	1:1S:225:LEU:HD22	2.00	0.43
2:1T:9:ILE:HG22	2:1T:146:GLY:HA2	2.00	0.43
2:1T:281:ALA:C	2:1T:283:HIS:H	2.22	0.43
1:1U:154:LYS:HA	1:1U:154:LYS:HD3	1.86	0.43
2:1V:266:HIS:O	2:1V:266:HIS:ND1	2.48	0.43
2:1X:34:GLY:HA3	2:1X:60:LYS:NZ	2.32	0.43
2:1X:108:TYR:HA	2:1X:112:LYS:NZ	2.32	0.43
2:1X:111:GLY:O	2:1X:115:VAL:HG12	2.18	0.43
2:1X:393:HIS:CE1	2:1X:397:LEU:HD21	2.53	0.43
1:2A:72:THR:O	1:2A:75:SER:OG	2.29	0.43
1:2A:113:ILE:HD12	1:2A:113:ILE:HA	1.85	0.43
1:2A:313:ALA:HB1	1:2A:367:PHE:HE1	1.83	0.43
1:2C:297:LYS:HE3	1:2C:297:LYS:HB2	1.82	0.43
2:2D:325:PRO:HA	2:2D:328:VAL:HG22	2.00	0.43
1:2E:314:SER:HA	1:2E:350:LYS:O	2.18	0.43
1:2K:72:THR:O	1:2K:75:SER:OG	2.28	0.43
1:2K:317:PHE:HB3	1:2K:321:MET:SD	2.58	0.43
2:2L:21:TRP:CZ3	2:2L:63:PRO:HB3	2.54	0.43
2:2L:92:LEU:N	2:2L:92:LEU:HD23	2.34	0.43
2:2L:204:LEU:CD2	2:2L:302:MET:HB3	2.49	0.43
1:2M:31:ASP:OD1	1:2M:35:THR:N	2.45	0.43
1:2M:39:ASP:OD1	1:2M:39:ASP:N	2.51	0.43
2:2N:7:ILE:HD11	2:2N:137:VAL:HG12	2.01	0.43
2:2N:11:GLN:OE1	2:2N:15:GLN:NE2	2.51	0.43
2:2N:246:GLY:HA2	2:2N:357:TYR:CD2	2.53	0.43
1:2Q:273:LEU:HD23	1:2Q:273:LEU:HA	1.80	0.43
1:2S:173:PRO:HD2	1:2S:380:ARG:NH1	2.34	0.43
2:2X:40:LYS:HE3	2:2X:40:LYS:HB3	1.70	0.43
2:2Z:238:LEU:HD12	2:2Z:378:ILE:HD11	2.01	0.43
2:2Z:331:SER:O	2:2Z:334:THR:OG1	2.28	0.43
1:3A:22:GLU:HG2	1:3A:81:TYR:HB2	2.00	0.43
1:3C:42:LEU:HG	38:8D:192:ASN:OD1	2.19	0.43
2:3F:220:GLU:O	1:3G:324:LYS:NZ	2.44	0.43
2:3F:331:SER:O	2:3F:334:THR:OG1	2.30	0.43
2:3H:66:ILE:O	2:3H:66:ILE:HG13	2.18	0.43
2:3J:179:THR:O	1:3K:350:LYS:HD2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3K:174:LYS:HE2	1:3K:174:LYS:HB3	1.81	0.43
2:3L:5:ILE:HD11	2:3L:135:PHE:HE1	1.83	0.43
1:3M:292:GLN:HG2	1:3M:298:ASN:ND2	2.34	0.43
2:3N:17:GLY:HA2	2:3N:20:CYS:HB2	2.01	0.43
2:3N:153:LEU:HA	2:3N:153:LEU:HD12	1.85	0.43
1:3O:90:PHE:HB2	3:4F:19:LEU:HD13	2.00	0.43
1:3O:100:ASN:HB3	1:3O:103:LYS:HB2	1.99	0.43
2:3P:53:PHE:HB3	2:3P:61:HIS:HB3	2.00	0.43
2:3P:312:TYR:HB2	2:3P:343:PHE:CD1	2.54	0.43
2:3R:36:MET:HG3	2:3R:41:THR:HG22	2.01	0.43
1:3S:203:ASP:N	1:3S:203:ASP:OD1	2.52	0.43
2:3T:235:ILE:HD13	2:3T:238:LEU:HD21	1.99	0.43
4:3W:94:LEU:HB2	4:3W:152:LEU:HD11	1.99	0.43
4:4I:94:LEU:HB2	4:4I:152:LEU:HD11	1.99	0.43
5:4M:55:GLN:NE2	5:4M:59:ASP:OD2	2.51	0.43
9:4Z:343:ALA:O	9:4Z:346:LYS:HG2	2.18	0.43
10:5A:478:LEU:HD23	10:5A:481:LEU:HD12	2.01	0.43
10:5B:110:GLU:O	10:5B:114:LYS:HD3	2.18	0.43
10:5B:246:ILE:HD12	10:5B:246:ILE:HA	1.92	0.43
10:5C:173:MET:O	10:5C:177:GLU:HG2	2.18	0.43
12:5F:25:ASP:O	12:5G:262:ARG:NH1	2.51	0.43
12:5F:271:LEU:CD2	12:7B:23:MET:CG	2.86	0.43
12:5G:339:ASP:OD1	12:5G:339:ASP:N	2.51	0.43
14:5L:416:ILE:O	23:6Q:22:MET:HE2	2.18	0.43
14:5L:485:VAL:HG21	14:5L:516:VAL:HG11	2.00	0.43
14:5N:334:LEU:HD23	14:5N:334:LEU:H	1.84	0.43
14:5N:485:VAL:HG21	14:5N:516:VAL:HG11	2.00	0.43
15:5O:270:LEU:HD12	15:5O:307:ILE:CD1	2.47	0.43
15:5P:20:ILE:HG13	19:6E:104:TYR:CE1	2.53	0.43
18:6C:204:LEU:HD11	18:6C:209:PRO:O	2.19	0.43
18:6D:204:LEU:HD11	18:6D:209:PRO:O	2.19	0.43
19:6E:31:LYS:HB2	19:6E:37:THR:HG22	2.01	0.43
21:6H:20:ARG:HD2	21:6H:124:ASP:OD2	2.18	0.43
22:6I:192:LYS:HA	22:6I:195:ASP:OD1	2.19	0.43
22:6J:81:ASN:OD1	22:6J:82:LEU:N	2.52	0.43
22:6L:206:ASP:HA	22:6L:209:ASN:HD21	1.83	0.43
22:6L:308:HIS:CD2	24:6W:560:ARG:HH12	2.37	0.43
22:6P:150:TYR:HB3	22:6P:228:PHE:HD1	1.83	0.43
24:6T:124:TYR:CE2	24:6T:150:ARG:HG3	2.53	0.43
24:6T:213:TYR:HA	24:6T:216:THR:HG22	2.01	0.43
24:6U:38:GLY:HA3	24:6U:42:GLU:HG2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:6U:151:HIS:CE1	24:6U:153:VAL:HG12	2.54	0.43
24:6V:279:TRP:CZ2	24:6V:364:ARG:HG3	2.53	0.43
24:6X:130:MET:HE3	24:6X:153:VAL:CG2	2.48	0.43
12:7B:32:GLN:OE1	12:7B:32:GLN:N	2.51	0.43
25:7C:13:GLU:O	25:7C:16:GLU:HG3	2.19	0.43
26:7E:50:SER:HA	26:7E:56:LEU:CD2	2.48	0.43
27:7G:187:ARG:HD3	27:7G:187:ARG:H	1.84	0.43
34:7S:130:ARG:HH22	34:7S:134:LEU:HD12	1.84	0.43
34:7S:226:LEU:HA	34:7S:229:ASP:OD2	2.19	0.43
38:8B:95:LYS:HA	38:8B:100:SER:CB	2.47	0.43
38:8B:120:GLN:O	38:8B:124:GLU:HG3	2.18	0.43
1:7:142:GLY:N	39:7:502:GDP:O2B	2.51	0.43
1:7:204:ASN:HD21	39:7:502:GDP:HN22	1.65	0.43
1:9:83:GLN:HE21	24:6X:177:ARG:HH12	1.67	0.43
1:A3:281:TYR:CE2	1:T6:87:PRO:HD3	2.54	0.43
2:E9:18:ASN:ND2	22:6N:116:TYR:HE1	2.16	0.43
1:G2:371:SER:OG	1:G2:372:THR:N	2.52	0.43
2:G5:198:THR:HG21	2:G5:201:ALA:HB2	1.99	0.43
1:G8:7:ILE:HB	1:G8:135:VAL:HG22	2.01	0.43
1:G8:157:GLU:OE1	1:G8:158:GLU:HG3	2.19	0.43
2:G9:33:ASP:OD1	2:G9:34:GLY:N	2.52	0.43
2:G9:417:GLU:HA	2:G9:420:GLU:HG2	2.00	0.43
2:H1:57:GLY:H	2:I7:285:GLN:CB	2.31	0.43
2:H1:237:SER:HA	2:H1:320:ARG:HH11	1.84	0.43
1:H2:379:LYS:HA	1:H2:382:SER:HG	1.84	0.43
2:H5:196:GLU:OE2	2:H5:197:HIS:NE2	2.52	0.43
1:H6:218:THR:HG21	24:6V:488:ARG:HB3	1.99	0.43
1:I0:68:LEU:HD23	1:I0:68:LEU:HA	1.88	0.43
2:I3:296:PHE:CE1	2:I3:377:MET:HG3	2.53	0.43
1:I4:273:LEU:HD23	1:I4:273:LEU:HA	1.86	0.43
2:I5:238:LEU:HD12	2:I5:238:LEU:HA	1.80	0.43
2:I7:96:LYS:HE2	28:7H:463:ASN:HA	1.99	0.43
1:J0:111:GLU:OE1	1:J0:111:GLU:N	2.51	0.43
1:J0:265:PHE:HE2	1:J0:418:LEU:HD11	1.82	0.43
1:J6:152:ILE:HD12	1:J6:164:MET:SD	2.59	0.43
2:J9:211:ASP:OD1	2:J9:214:ARG:NH2	2.51	0.43
2:K1:88:HIS:ND1	2:L7:283:HIS:HA	2.33	0.43
2:K1:133:GLN:HE22	2:K1:252:ILE:H	1.67	0.43
2:K3:11:GLN:OE1	2:K3:15:GLN:NE2	2.52	0.43
2:K3:60:LYS:HE2	2:K3:88:HIS:HE1	1.84	0.43
1:K4:145:SER:OG	1:K4:146:GLY:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K8:177:ASP:N	1:K8:181:GLU:OE2	2.52	0.43
1:K8:310:TYR:CD1	1:K8:371:SER:HB2	2.54	0.43
1:L2:183:TYR:O	1:L2:187:LEU:HD13	2.19	0.43
1:L2:215:LEU:HD23	1:L2:215:LEU:HA	1.78	0.43
2:L3:11:GLN:HB3	41:L4:501:GTP:PA	2.59	0.43
2:L5:320:ARG:O	2:L5:373:ARG:HA	2.19	0.43
1:L6:43:GLN:O	1:L6:47:ILE:HG23	2.19	0.43
2:L7:90:GLU:HB3	2:N3:283:HIS:CE1	2.54	0.43
2:L7:392:ASP:OD1	2:L7:425:LEU:HB3	2.19	0.43
2:M3:4:VAL:HG22	2:M3:133:GLN:HB2	2.00	0.43
2:M5:76:ASP:HA	2:M5:79:ARG:HB2	2.00	0.43
2:M5:297:GLU:HG3	2:M5:299:ALA:HB3	1.99	0.43
1:M6:183:TYR:OH	1:M6:388:MET:HB3	2.17	0.43
1:M6:192:LEU:HD23	1:M6:192:LEU:HA	1.86	0.43
1:N0:309:ARG:H	1:N0:372:THR:CG2	2.32	0.43
2:N1:91:GLN:HG3	2:N1:121:ARG:NH2	2.34	0.43
2:N3:312:TYR:HB2	2:N3:343:PHE:CD1	2.54	0.43
2:N5:11:GLN:HB3	41:N6:501:GTP:O2A	2.19	0.43
2:N7:14:ILE:HD11	2:N7:74:VAL:HG22	2.00	0.43
2:N7:268:MET:HE2	2:N7:268:MET:HB2	1.86	0.43
1:N8:3:GLU:HG3	1:N8:127:CYS:HB2	2.00	0.43
2:N9:34:GLY:HA3	2:N9:60:LYS:NZ	2.34	0.43
1:O0:217:LEU:HD11	27:7G:52:VAL:HG12	2.01	0.43
1:O2:276:ARG:HA	1:O2:279:GLN:NE2	2.33	0.43
1:O4:320:ARG:HH12	19:6E:86:THR:HA	1.83	0.43
1:O4:358:PRO:HG2	1:O4:361:LEU:HD12	2.01	0.43
2:O5:109:THR:HB	2:O5:110:ILE:HD12	2.01	0.43
1:O8:221:THR:OG1	1:O8:222:PHE:N	2.52	0.43
2:O9:244:PHE:HB2	2:O9:356:ASN:HD21	1.83	0.43
2:O9:301:MET:HE1	2:O9:307:PRO:HD3	2.01	0.43
2:P3:206:ASN:OD1	41:P4:501:GTP:N2	2.52	0.43
1:P4:54:ALA:HB3	1:P4:58:ARG:HB3	2.01	0.43
1:P6:68:LEU:HD21	1:P6:112:LEU:HD22	2.01	0.43
1:P6:186:THR:HG22	1:P6:411:ALA:HB1	2.00	0.43
2:P7:109:THR:HG23	2:P7:411:GLU:OE2	2.18	0.43
2:P9:76:ASP:O	2:P9:80:THR:HG23	2.19	0.43
2:Q3:53:PHE:HB3	2:Q3:61:HIS:HB3	2.01	0.43
1:Q8:47:ILE:HG22	1:Q8:51:PHE:HB2	2.00	0.43
1:Q8:232:VAL:HG11	1:Q8:268:VAL:HG11	2.01	0.43
2:Q9:4:VAL:HG23	2:Q9:134:GLY:O	2.19	0.43
2:Q9:320:ARG:HE	2:Q9:320:ARG:HB3	1.63	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R2:48:ASN:OD1	1:R2:48:ASN:N	2.49	0.43
1:R2:221:THR:HG23	1:R2:223:GLY:H	1.84	0.43
1:R2:317:PHE:HE2	1:R2:326:VAL:HG13	1.83	0.43
2:R3:65:CYS:SG	2:R3:66:ILE:N	2.91	0.43
2:R5:192:HIS:HD2	2:R5:421:ALA:HA	1.82	0.43
1:R6:86:ARG:HD3	1:R6:88:ASP:OD1	2.19	0.43
1:R6:140:GLY:O	1:R6:184:ASN:ND2	2.51	0.43
1:S0:138:SER:OG	1:S0:139:LEU:N	2.52	0.43
2:S1:288:VAL:HG13	2:S1:319:TYR:HE2	1.83	0.43
2:S7:5:ILE:HD11	2:S7:135:PHE:CD1	2.54	0.43
1:S8:379:LYS:HG3	1:S8:419:VAL:HG21	2.00	0.43
1:T0:117:LEU:HA	1:T0:120:VAL:HG12	2.01	0.43
2:T3:279:GLU:N	2:T3:279:GLU:OE1	2.51	0.43
1:T4:42:LEU:HD22	21:6H:97:ARG:HD3	2.00	0.43
1:T4:72:THR:O	1:T4:76:VAL:HG23	2.19	0.43
1:T6:272:PRO:HD3	1:T6:364:SER:HA	2.00	0.43
2:T7:116:ASP:OD1	2:T7:117:LEU:N	2.52	0.43
2:U1:271:SER:HB3	2:U1:377:MET:HB3	1.99	0.43
1:U4:293:MET:HE3	1:U4:367:PHE:HB2	2.00	0.43
1:U4:297:LYS:HZ2	1:U4:306:ARG:HH22	1.66	0.43
2:V3:22:GLU:HG2	2:V3:83:TYR:CE2	2.54	0.43
2:V3:66:ILE:O	2:V3:66:ILE:HG13	2.19	0.43
2:V3:211:ASP:OD2	2:V3:215:ARG:NH1	2.51	0.43
1:V8:297:LYS:HD2	1:V8:297:LYS:H	1.84	0.43
2:V9:157:LEU:HD23	2:V9:157:LEU:HA	1.83	0.43
2:V9:224:TYR:HB2	1:W0:245:GLN:NE2	2.34	0.43
1:W0:6:HIS:HA	1:W0:134:GLN:O	2.18	0.43
1:W0:226:ASN:OD1	39:W0:502:GDP:N2	2.47	0.43
1:W4:150:LEU:HD12	1:W4:153:SER:OG	2.19	0.43
1:W6:5:VAL:HG23	1:W6:62:ARG:HG2	1.99	0.43
2:W7:399:TYR:OH	2:W7:415:GLU:OE2	2.36	0.43
1:W8:387:ALA:HA	1:W8:390:ARG:HH21	1.83	0.43
2:W9:175:PRO:HB3	2:W9:390:ARG:NE	2.34	0.43
1:X0:170:VAL:N	1:X0:202:LEU:O	2.45	0.43
2:X5:27:GLU:HG3	2:X5:28:HIS:HD2	1.83	0.43
2:X5:271:SER:HB2	2:X5:377:MET:HE2	2.00	0.43
2:X7:34:GLY:HA3	2:X7:60:LYS:HZ2	1.84	0.43
1:X8:19:LYS:HE3	1:X8:19:LYS:HB3	1.90	0.43
2:Y3:276:ILE:HG23	2:Y3:280:LYS:HB2	2.01	0.43
2:Y5:149:LEU:HA	2:Y5:152:LEU:HB3	2.00	0.43
2:Y5:201:ALA:O	2:Y5:268:MET:HE2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Y9:406:HIS:HA	2:Y9:409:VAL:HG22	2.01	0.43
1:Z0:237:THR:HG23	1:Z0:241:ARG:HH21	1.82	0.43
1:Z0:268:VAL:O	1:Z0:300:MET:N	2.45	0.43
1:Z0:382:SER:HB2	1:Z0:415:MET:HE3	2.00	0.43
2:Z1:3:GLU:HG3	2:Z1:51:THR:HA	2.00	0.43
2:Z3:320:ARG:O	2:Z3:373:ARG:HA	2.18	0.43
1:Z4:50:TYR:HD2	1:Z4:241:ARG:HD3	1.84	0.43
2:Z5:175:PRO:HG2	2:Z5:176:GLN:OE1	2.19	0.43
2:Z5:399:TYR:OH	2:Z5:415:GLU:OE2	2.24	0.43
2:Z9:191:THR:HA	2:Z9:194:LEU:HB3	1.99	0.43
2:0B:167:LEU:HD13	2:0B:200:VAL:HB	2.01	0.43
1:0C:250:LEU:HA	1:0C:253:LEU:HD12	2.00	0.43
1:0E:258:ILE:HG23	1:0E:258:ILE:O	2.18	0.43
2:0F:312:TYR:HD1	2:0F:381:SER:HB2	1.84	0.43
1:0G:170:VAL:HG22	1:0G:202:LEU:O	2.18	0.43
1:0I:21:TRP:CH2	1:0I:61:PRO:HB3	2.54	0.43
2:0J:64:ARG:HB3	2:0J:125:LEU:HD21	2.01	0.43
2:0J:174:SER:HB3	2:0J:177:VAL:O	2.18	0.43
2:0J:176:GLN:NE2	2:0J:207:GLU:OE1	2.51	0.43
2:0J:318:MET:HB2	2:0J:376:CYS:HB3	2.01	0.43
1:0K:344:TRP:CE3	1:0K:345:ILE:HG13	2.54	0.43
1:0M:8:GLN:O	1:0M:66:MET:HB2	2.19	0.43
2:0N:431:ASP:O	2:0N:434:GLU:HG2	2.19	0.43
1:0O:67:ASP:OD2	1:0O:72:THR:HG21	2.19	0.43
1:0O:388:MET:HE2	1:0O:388:MET:CA	2.49	0.43
1:0S:8:GLN:CD	1:0S:17:GLY:HA3	2.39	0.43
1:0W:153:SER:O	1:0W:157:GLU:HG2	2.19	0.43
1:0W:404:ASP:HB3	1:0W:406:MET:SD	2.58	0.43
1:0Y:417:ASP:HA	1:0Y:420:SER:HG	1.84	0.43
2:0Z:312:TYR:CE2	2:0Z:341:ILE:HG12	2.54	0.43
2:1B:51:THR:HG21	2:1B:243:ARG:HG2	2.00	0.43
2:1B:204:LEU:HD22	2:1B:302:MET:CB	2.49	0.43
1:1C:314:SER:HA	1:1C:350:LYS:O	2.19	0.43
2:1D:240:ALA:HB1	2:1D:356:ASN:HD22	1.83	0.43
1:1E:53:GLU:HB2	1:1E:59:TYR:CE1	2.54	0.43
1:1G:364:SER:OG	1:1G:365:ALA:N	2.52	0.43
1:1G:396:HIS:CD2	2:1H:263:PRO:HD3	2.54	0.43
2:1H:266:HIS:O	2:1H:266:HIS:ND1	2.47	0.43
1:1K:72:THR:O	1:1K:75:SER:OG	2.17	0.43
2:1L:149:LEU:HA	2:1L:152:LEU:HB3	2.01	0.43
2:1N:172:TYR:CZ	2:1N:203:MET:SD	3.12	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1N:176:GLN:HG2	2:1N:177:VAL:N	2.33	0.43
2:1P:403:ALA:HB2	1:1Q:344:TRP:HZ3	1.84	0.43
2:1R:403:ALA:HB2	1:1S:344:TRP:HZ3	1.83	0.43
1:1S:345:ILE:HB	1:1S:348:ASN:HD21	1.83	0.43
2:1V:91:GLN:HG2	2:1V:121:ARG:NH2	2.30	0.43
2:1X:3:GLU:HG3	2:1X:51:THR:HA	2.00	0.43
2:1X:102:ASN:ND2	2:1X:105:ARG:H	2.16	0.43
1:2C:203:ASP:OD1	1:2C:301:CYS:HA	2.18	0.43
1:2C:207:LEU:HD23	1:2C:207:LEU:HA	1.90	0.43
2:2F:246:GLY:HA2	2:2F:357:TYR:CD2	2.54	0.43
1:2G:77:ARG:HE	1:2G:90:PHE:HE2	1.64	0.43
2:2H:8:HIS:CD2	2:2H:138:PHE:HD2	2.37	0.43
1:2K:151:LEU:HD12	1:2K:151:LEU:HA	1.84	0.43
1:2S:165:LEU:HG	1:2S:250:LEU:HD11	2.01	0.43
1:2U:220:PRO:HD2	2:2V:326:LYS:HG2	2.01	0.43
2:2X:205:ASP:OD2	2:2X:206:ASN:N	2.46	0.43
1:2Y:114:ASP:OD1	1:2Y:115:SER:N	2.51	0.43
1:3A:414:ASN:HA	1:3A:417:ASP:OD2	2.19	0.43
2:3B:121:ARG:HA	2:3B:121:ARG:HD3	1.88	0.43
1:3C:382:SER:HB2	1:3C:415:MET:HG2	2.01	0.43
1:3C:386:THR:O	1:3C:390:ARG:HG3	2.19	0.43
1:3C:396:HIS:CD2	2:3D:263:PRO:HD3	2.54	0.43
2:3D:280:LYS:HA	2:3D:283:HIS:HB3	2.00	0.43
2:3F:402:ARG:HD2	2:3F:405:VAL:HG21	2.01	0.43
1:3I:161:ASP:OD2	1:3I:161:ASP:N	2.51	0.43
1:3I:218:THR:O	2:3J:326:LYS:HE2	2.19	0.43
1:3K:101:TRP:CE3	1:3K:403:MET:HE1	2.53	0.43
1:3K:183:TYR:O	1:3K:187:LEU:HD13	2.19	0.43
1:3K:404:ASP:HB3	1:3K:406:MET:SD	2.59	0.43
1:3M:309:ARG:NH1	1:3M:341:PHE:O	2.51	0.43
1:3M:354:CYS:SG	1:3M:355:ASP:N	2.92	0.43
1:3O:49:VAL:O	1:3O:62:ARG:NH1	2.52	0.43
1:3Q:173:PRO:HG2	1:3Q:174:LYS:NZ	2.34	0.43
2:3R:231:ILE:O	2:3R:235:ILE:HG12	2.18	0.43
2:3R:345:ASP:OD1	2:3R:346:TRP:N	2.51	0.43
1:3S:6:HIS:CD2	1:3S:134:GLN:HG3	2.47	0.43
1:3S:406:MET:SD	1:3S:406:MET:N	2.92	0.43
2:3T:251:ASP:OD1	2:3T:253:THR:OG1	2.29	0.43
2:3T:417:GLU:HA	2:3T:420:GLU:CD	2.39	0.43
3:3V:216:ILE:HD13	3:3V:216:ILE:HA	1.89	0.43
4:4G:36:ARG:O	3:4H:260:ILE:HG13	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4G:94:LEU:HB2	4:4G:152:LEU:HD11	1.99	0.43
3:4H:216:ILE:HD13	3:4H:216:ILE:HA	1.89	0.43
6:4O:277:GLU:HA	6:4O:280:LYS:HD2	2.01	0.43
8:4W:225:SER:O	8:4W:228:ARG:HG2	2.19	0.43
8:4W:457:LEU:HD23	8:4W:457:LEU:HA	1.79	0.43
10:5C:481:LEU:HD11	10:5C:494:LEU:CD2	2.47	0.43
13:5H:93:ASN:HB2	13:5H:96:TRP:CZ2	2.54	0.43
14:5L:159:SER:O	14:5L:159:SER:OG	2.35	0.43
14:5L:189:THR:OG1	14:5L:189:THR:O	2.33	0.43
14:5L:334:LEU:H	14:5L:334:LEU:HD23	1.84	0.43
14:5M:189:THR:O	14:5M:189:THR:OG1	2.33	0.43
14:5M:211:CYS:SG	14:5M:219:LEU:HB3	2.59	0.43
14:5N:415:LYS:HB3	14:5N:415:LYS:HE3	1.49	0.43
15:5O:35:VAL:CG2	15:5O:52:TYR:HB2	2.49	0.43
15:5P:5:LEU:HD23	15:5P:5:LEU:HA	1.88	0.43
15:5P:361:LEU:HB2	15:5P:364:ASP:OD2	2.18	0.43
18:5X:182:VAL:HG12	18:5X:182:VAL:O	2.18	0.43
18:5X:204:LEU:HD11	18:5X:209:PRO:O	2.19	0.43
18:6B:204:LEU:HD11	18:6B:209:PRO:O	2.19	0.43
20:6F:159:ASP:HB3	20:6F:302:PRO:HA	2.00	0.43
22:6L:96:LYS:HD3	22:6L:97:PRO:O	2.18	0.43
22:6L:201:ARG:HG2	22:6L:239:GLU:OE2	2.18	0.43
24:6U:315:ARG:HG3	24:6U:315:ARG:HH11	1.84	0.43
24:6V:274:ARG:HB3	24:6V:372:ASP:OD1	2.18	0.43
24:6W:469:PHE:HB3	24:6W:484:GLU:HB3	2.01	0.43
24:6W:483:PHE:CE1	24:6W:496:LYS:HB2	2.53	0.43
24:6X:435:LEU:HD12	24:6X:435:LEU:H	1.84	0.43
24:6Y:274:ARG:H	24:6Y:375:THR:HG21	1.84	0.43
24:6Y:274:ARG:NE	24:6Y:372:ASP:OD2	2.46	0.43
24:6Z:602:LEU:HG	24:6Z:604:PHE:HD1	1.83	0.43
28:7H:410:HIS:O	28:7H:414:GLN:HG3	2.19	0.43
31:7N:102:ILE:CD1	31:7N:108:SER:HB3	2.49	0.43
32:7P:96:GLU:OE1	32:7P:100:ARG:HB2	2.18	0.43
34:7R:208:ARG:HA	34:7R:211:ARG:HH21	1.82	0.43
28:7X:410:HIS:O	28:7X:414:GLN:HG3	2.19	0.43
38:8B:122:LYS:O	38:8B:126:THR:HG22	2.19	0.43
1:B5:280:GLN:NE2	24:6X:105:SER:O	2.51	0.43
1:B8:279:GLN:NE2	24:6Y:109:SER:HB2	2.34	0.43
1:C4:47:ILE:HD11	22:6I:23:TYR:CE2	2.54	0.43
1:D4:39:ASP:OD1	18:6B:149:LYS:HG2	2.18	0.43
2:D5:179:THR:OG1	41:D5:501:GTP:O3'	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E0:32:PRO:HG2	24:6T:403:PRO:HD2	2.01	0.43
1:G2:180:VAL:HG23	1:G2:184:ASN:ND2	2.34	0.43
2:G7:56:THR:HG23	2:G7:60:LYS:HB3	2.00	0.43
2:H1:167:LEU:HD23	2:H1:167:LEU:HA	1.86	0.43
1:H2:35:THR:OG1	1:H2:37:HIS:NE2	2.51	0.43
2:H5:176:GLN:HG2	2:H5:177:VAL:HG23	2.01	0.43
2:H9:205:ASP:OD2	2:H9:303:VAL:HG13	2.19	0.43
2:I1:76:ASP:OD2	1:I2:46:ARG:NH2	2.49	0.43
2:I1:204:LEU:HD13	2:I1:231:ILE:HD12	2.00	0.43
1:I2:218:THR:HG21	24:6Y:488:ARG:CA	2.48	0.43
1:I4:250:LEU:HD23	1:I4:250:LEU:HA	1.86	0.43
2:I5:272:TYR:HD2	2:I5:275:ILE:HD11	1.84	0.43
2:I9:291:ILE:HA	2:I9:294:ALA:HB3	2.00	0.43
1:J0:417:ASP:HA	1:J0:420:SER:OG	2.19	0.43
1:J2:295:ASP:OD2	1:J2:297:LYS:N	2.46	0.43
1:J4:170:VAL:HG22	1:J4:202:LEU:O	2.19	0.43
2:J7:22:GLU:O	2:J7:26:LEU:HD23	2.19	0.43
2:J9:151:SER:HB2	2:J9:193:SER:OG	2.19	0.43
2:K3:213:CYS:SG	2:K3:219:ILE:HB	2.59	0.43
1:K6:390:ARG:HG3	1:K6:391:ARG:HG3	2.00	0.43
2:K7:318:MET:HB2	2:K7:376:CYS:HB3	2.00	0.43
1:K8:145:SER:OG	1:K8:146:GLY:N	2.52	0.43
2:K9:9:ILE:HG12	2:K9:68:LEU:HD11	2.01	0.43
2:L3:35:GLN:HB3	2:L3:59:GLY:O	2.19	0.43
1:L4:192:LEU:HD23	1:L4:192:LEU:HA	1.82	0.43
1:L6:304:ASP:HB3	1:L6:307:HIS:ND1	2.34	0.43
2:L7:5:ILE:HB	2:L7:64:ARG:O	2.19	0.43
1:M6:186:THR:HG22	1:M6:411:ALA:HB1	2.01	0.43
1:M8:60:VAL:HG21	1:M8:86:ARG:HE	1.84	0.43
2:M9:205:ASP:OD1	2:M9:303:VAL:HG13	2.19	0.43
1:N0:163:MET:HG3	1:N0:250:LEU:HD22	2.01	0.43
1:N0:246:LEU:HD22	1:N0:352:SER:HA	2.00	0.43
2:N1:300:SER:O	2:N1:300:SER:OG	2.30	0.43
2:N3:209:ILE:HD13	2:N3:227:LEU:HD13	2.00	0.43
2:N3:290:GLU:HA	2:N3:293:ASN:HD22	1.82	0.43
2:O1:405:VAL:HG13	2:O1:418:PHE:HE2	1.84	0.43
1:O2:281:TYR:CD2	1:O2:281:TYR:N	2.86	0.43
2:O7:189:LEU:HD11	2:O7:418:PHE:CE1	2.52	0.43
1:O8:404:ASP:OD1	1:O8:405:GLU:N	2.52	0.43
2:P5:88:HIS:HD2	2:P5:121:ARG:NH2	2.15	0.43
2:P5:175:PRO:HG2	2:P5:176:GLN:OE1	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P5:241:SER:OG	2:P5:250:VAL:O	2.34	0.43
1:P6:68:LEU:HB3	1:P6:96:GLY:HA2	2.01	0.43
1:P6:344:TRP:CE3	1:P6:345:ILE:HG13	2.53	0.43
2:P7:70:LEU:HD13	2:P7:110:ILE:HG21	2.01	0.43
1:P8:268:VAL:O	1:P8:300:MET:N	2.39	0.43
1:Q0:108:GLU:OE1	1:Q0:108:GLU:N	2.52	0.43
2:Q3:56:THR:O	2:Q3:57:GLY:C	2.56	0.43
2:Q3:349:THR:HG22	2:Q3:349:THR:O	2.19	0.43
1:Q4:237:THR:CG2	1:Q4:240:LEU:HD12	2.49	0.43
1:Q8:122:LYS:HA	1:Q8:125:GLU:OE1	2.18	0.43
2:R1:69:ASP:OD2	2:R1:70:LEU:N	2.51	0.43
2:R1:199:ASP:HA	17:5S:84:ARG:HH22	1.83	0.43
2:R5:322:ASP:HB2	19:6E:221:THR:HG22	2.01	0.43
2:R7:90:GLU:HB3	2:R7:121:ARG:NH1	2.26	0.43
2:R9:21:TRP:CZ3	2:R9:63:PRO:HB3	2.54	0.43
2:R9:269:LEU:HD21	2:R9:384:ILE:HG13	2.00	0.43
1:S0:69:GLU:OE1	1:S0:69:GLU:HA	2.19	0.43
1:S4:71:GLY:HA2	24:6U:29:LYS:HZ1	1.84	0.43
1:S4:271:THR:OG1	1:S4:365:ALA:HB3	2.19	0.43
1:S4:303:ALA:C	13:5H:9:GLN:HE21	2.22	0.43
2:S5:49:PHE:HE2	2:S5:55:GLU:HB2	1.83	0.43
1:S8:216:LYS:HB2	1:S8:275:SER:HG	1.83	0.43
1:S8:228:LEU:HD23	1:S8:228:LEU:HA	1.84	0.43
1:T0:6:HIS:CE1	1:T0:8:GLN:HE21	2.37	0.43
1:T2:138:SER:O	1:T2:139:LEU:HD23	2.19	0.43
1:T6:275:SER:OG	1:T6:278:SER:HB3	2.18	0.43
2:T7:137:VAL:HG11	2:T7:154:LEU:HD11	2.00	0.43
1:T8:50:TYR:OH	1:T8:237:THR:OG1	2.31	0.43
2:U7:72:PRO:HD2	1:U8:2:ARG:NH1	2.34	0.43
2:U7:335:ILE:HG23	2:U7:341:ILE:HD11	2.01	0.43
1:U8:6:HIS:HD2	1:U8:134:GLN:OE1	2.01	0.43
1:V0:242:PHE:CD1	1:V0:356:ILE:HG13	2.54	0.43
1:V0:250:LEU:HD12	1:V0:250:LEU:HA	1.87	0.43
1:V0:396:HIS:CE1	1:V0:397:TRP:CE2	3.06	0.43
1:V6:161:ASP:OD2	1:V6:161:ASP:N	2.45	0.43
1:V6:394:PHE:CE2	2:V7:261:PRO:HB3	2.54	0.43
1:W0:135:VAL:O	1:W0:166:THR:HA	2.18	0.43
1:W2:173:PRO:HD3	1:W2:380:ARG:HD3	2.00	0.43
2:W7:88:HIS:CD2	2:W7:89:PRO:CD	3.00	0.43
2:W9:7:ILE:O	2:W9:7:ILE:CG2	2.67	0.43
2:X5:116:ASP:N	2:X5:116:ASP:OD1	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X6:128:ASP:OD1	1:X6:128:ASP:N	2.52	0.43
2:X7:384:ILE:HA	2:X7:387:ILE:HD12	2.01	0.43
1:X8:412:GLU:HA	1:X8:415:MET:HE2	2.01	0.43
2:X9:121:ARG:HA	2:X9:121:ARG:HD2	1.79	0.43
2:Y3:3:GLU:HB2	2:Y3:129:CYS:SG	2.59	0.43
2:Y3:181:VAL:H	1:Y4:256:ASN:ND2	2.17	0.43
2:Z5:181:VAL:HG12	1:Z6:347:ASN:O	2.19	0.43
1:Z6:165:LEU:HB2	1:Z6:250:LEU:HD11	2.01	0.43
2:Z7:28:HIS:CD2	2:Z7:244:PHE:HZ	2.36	0.43
1:Z8:148:GLY:O	1:Z8:152:ILE:HG12	2.19	0.43
2:0F:99:ALA:HA	2:0F:105:ARG:HD3	2.01	0.43
2:0J:98:ASP:OD1	2:0J:99:ALA:N	2.51	0.43
2:0J:304:LYS:HA	2:0J:304:LYS:HD3	1.79	0.43
2:0N:90:GLU:HB3	2:0N:121:ARG:HH12	1.82	0.43
2:0N:345:ASP:N	2:0N:345:ASP:OD1	2.52	0.43
1:0O:19:LYS:HE3	1:0O:19:LYS:HB3	1.81	0.43
1:0O:211:CYS:SG	1:0O:220:PRO:HB3	2.59	0.43
1:0O:286:VAL:HG23	1:0O:287:PRO:HD3	2.00	0.43
2:0P:175:PRO:HB3	2:0P:390:ARG:HE	1.84	0.43
1:0Q:405:GLU:HA	1:0Q:408:PHE:HD2	1.84	0.43
2:0X:66:ILE:CD1	2:0X:122:ILE:HD11	2.49	0.43
1:0Y:207:LEU:HD11	1:0Y:229:ILE:CD1	2.33	0.43
2:0Z:320:ARG:O	2:0Z:373:ARG:HA	2.18	0.43
2:1B:53:PHE:HA	2:1B:62:VAL:O	2.19	0.43
2:1F:182:VAL:HG23	2:1F:186:ASN:ND2	2.33	0.43
1:1G:118:ASP:O	1:1G:122:LYS:HG2	2.18	0.43
1:1G:165:LEU:HD13	1:1G:167:PHE:HE1	1.84	0.43
2:1H:101:ASN:HD22	2:1H:143:GLY:HA2	1.84	0.43
1:1K:113:ILE:HD12	1:1K:150:LEU:HD22	2.01	0.43
1:1K:215:LEU:HD11	1:1K:273:LEU:HD22	2.00	0.43
1:1K:415:MET:O	1:1K:418:LEU:HG	2.19	0.43
1:1Q:173:PRO:HD2	1:1Q:380:ARG:NH1	2.34	0.43
1:1S:334:GLN:NE2	1:1S:348:ASN:H	2.07	0.43
2:1V:88:HIS:CG	2:1V:89:PRO:HD2	2.45	0.43
2:1V:176:GLN:HG2	2:1V:177:VAL:N	2.34	0.43
1:1W:55:THR:CG2	1:2M:284:LEU:HD23	2.39	0.43
2:1X:189:LEU:HD11	2:1X:418:PHE:CE1	2.53	0.43
2:1Z:179:THR:O	1:2A:350:LYS:HD2	2.19	0.43
1:2C:117:LEU:HA	1:2C:120:VAL:HG12	2.00	0.43
1:2E:20:PHE:HA	1:2E:230:SER:HB2	2.01	0.43
1:2E:335:ASN:O	1:2E:338:SER:OG	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2I:391:ARG:HH22	2:2J:435:VAL:HA	1.83	0.43
2:2L:57:GLY:HA3	10:5D:156:TYR:OH	2.18	0.43
1:2M:210:ILE:O	1:2M:214:THR:OG1	2.28	0.43
1:2M:317:PHE:HE2	1:2M:326:VAL:HG13	1.84	0.43
2:2N:277:SER:H	2:2N:280:LYS:HD3	1.84	0.43
1:2Q:77:ARG:HD2	1:2Q:90:PHE:CE2	2.54	0.43
1:2Y:2:ARG:HB3	1:2Y:131:GLN:HB2	2.00	0.43
2:2Z:156:ARG:HA	2:2Z:159:VAL:HG12	2.01	0.43
2:3B:287:SER:H	2:3B:290:GLU:CD	2.21	0.43
1:3C:355:ASP:CG	38:8D:198:THR:HG22	2.31	0.43
1:3G:192:LEU:HA	1:3G:192:LEU:HD23	1.79	0.43
2:3H:65:CYS:SG	2:3H:66:ILE:N	2.92	0.43
1:3I:5:VAL:HG22	1:3I:62:ARG:HD3	2.00	0.43
1:3M:309:ARG:NH1	1:3M:339:SER:O	2.51	0.43
1:3M:371:SER:OG	1:3M:372:THR:N	2.52	0.43
2:3N:174:SER:HA	2:3N:205:ASP:OD2	2.19	0.43
1:3S:197:ASP:N	1:3S:197:ASP:OD1	2.49	0.43
2:3T:204:LEU:HD23	2:3T:231:ILE:HD12	2.01	0.43
2:3T:209:ILE:HD12	2:3T:209:ILE:H	1.83	0.43
2:3T:280:LYS:HA	2:3T:283:HIS:HB3	2.00	0.43
2:3T:391:LEU:HA	2:3T:394:LYS:HG2	2.00	0.43
3:3X:93:LYS:HA	3:3X:93:LYS:HD3	1.47	0.43
3:3X:216:ILE:HD13	3:3X:216:ILE:HA	1.89	0.43
4:4E:22:LEU:N	3:4F:258:ASP:OD2	2.48	0.43
7:4R:192:GLU:OE1	7:4R:196:ARG:NH1	2.51	0.43
9:4Z:39:TRP:NE1	14:5L:583:ASP:HB3	2.34	0.43
10:5B:120:GLU:CG	10:5C:359:ARG:HH12	2.29	0.43
13:5I:93:ASN:HB2	13:5I:96:TRP:CZ2	2.54	0.43
13:5J:93:ASN:HB2	13:5J:96:TRP:CZ2	2.54	0.43
13:5K:93:ASN:HB2	13:5K:96:TRP:CZ2	2.54	0.43
14:5L:55:HIS:HE2	14:5L:88:TRP:HH2	1.67	0.43
14:5L:248:VAL:HB	14:5L:252:ASP:HB2	1.99	0.43
14:5L:425:GLN:OE1	14:5L:425:GLN:N	2.44	0.43
14:5M:20:GLY:N	14:5M:296:SER:OG	2.52	0.43
14:5M:113:CYS:SG	14:5M:159:SER:HB3	2.59	0.43
14:5M:248:VAL:HB	14:5M:252:ASP:HB2	1.99	0.43
14:5M:334:LEU:H	14:5M:334:LEU:HD23	1.84	0.43
14:5M:425:GLN:OE1	14:5M:425:GLN:N	2.44	0.43
14:5M:485:VAL:HG21	14:5M:516:VAL:HG11	2.00	0.43
14:5N:20:GLY:N	14:5N:296:SER:OG	2.52	0.43
14:5N:291:GLU:OE2	14:5N:317:ASN:ND2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:5O:16:PRO:HB3	15:5O:276:ASN:ND2	2.33	0.43
15:5P:139:VAL:HG23	15:5P:140:HIS:CE1	2.53	0.43
15:5P:169:ILE:HD12	15:5P:169:ILE:H	1.84	0.43
18:5Y:204:LEU:HD11	18:5Y:209:PRO:O	2.19	0.43
18:5Z:204:LEU:HD11	18:5Z:209:PRO:O	2.19	0.43
18:6A:204:LEU:HD11	18:6A:209:PRO:O	2.19	0.43
22:6I:324:LYS:HA	22:6I:327:GLU:OE1	2.19	0.43
22:6J:104:LEU:HD23	22:6J:104:LEU:HA	1.90	0.43
22:6L:305:VAL:HG12	22:6L:343:TYR:HD2	1.84	0.43
22:6M:27:LEU:HD12	22:6M:27:LEU:HA	1.78	0.43
22:6N:122:ALA:HB1	22:6N:127:THR:OG1	2.18	0.43
24:6T:565:GLN:NE2	24:6T:602:LEU:HB2	2.33	0.43
24:6U:560:ARG:HA	24:6U:563:LYS:HE3	2.01	0.43
24:6V:505:LYS:HD2	24:6V:510:GLU:HB3	2.01	0.43
24:6X:258:ASP:OD2	24:6X:259:GLY:N	2.52	0.43
24:6Y:95:VAL:O	24:6Y:187:PHE:HD2	2.01	0.43
24:6Y:182:VAL:HG13	24:6Y:203:LEU:HB2	1.99	0.43
24:6Y:273:LEU:HD11	24:6Y:298:LEU:HD21	2.01	0.43
24:6Y:332:VAL:HG21	24:6Y:342:PHE:CE1	2.54	0.43
24:6Y:434:ASP:O	24:6Y:438:LEU:HD23	2.19	0.43
24:6Z:274:ARG:HD3	24:6Z:295:HIS:CE1	2.54	0.43
24:6Z:437:LYS:HE2	24:6Z:475:MET:O	2.18	0.43
28:7H:399:VAL:HG13	28:7H:402:ARG:HD2	2.01	0.43
29:7I:117:ASN:C	29:7I:120:PRO:HD2	2.38	0.43
36:7W:20:GLU:O	36:7W:24:ASN:OD1	2.37	0.43
2:2:415:GLU:CD	4:3W:86:TYR:OH	2.57	0.43
2:C7:89:PRO:HB3	22:6K:18:PRO:HG2	2.00	0.43
2:F9:282:TYR:CE1	22:6K:133:PRO:HG3	2.54	0.43
1:G2:212:PHE:HZ	2:G3:326:LYS:HG3	1.84	0.43
2:G3:46:ASP:O	2:G3:47:ASP:C	2.57	0.43
1:G4:237:THR:HG22	1:G4:237:THR:O	2.18	0.43
2:G5:266:HIS:O	2:G5:266:HIS:ND1	2.52	0.43
2:G5:313:MET:HB2	2:G5:380:ASN:HB3	2.01	0.43
1:G6:51:PHE:HB3	1:G6:59:TYR:HB3	2.01	0.43
1:G6:117:LEU:HD23	1:G6:117:LEU:HA	1.85	0.43
1:G6:314:SER:HA	1:G6:350:LYS:O	2.19	0.43
1:G8:293:MET:HE2	1:G8:367:PHE:HB2	2.00	0.43
2:G9:184:PRO:HG2	2:G9:398:MET:CE	2.49	0.43
2:G9:404:PHE:CG	2:G9:404:PHE:O	2.72	0.43
2:H1:90:GLU:HB3	2:H1:121:ARG:HH12	1.84	0.43
1:H4:317:PHE:HB3	1:H4:321:MET:SD	2.59	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H6:31:ASP:OD2	1:H6:33:THR:OG1	2.29	0.43
1:H6:36:TYR:CZ	1:H6:44:LEU:HD21	2.54	0.43
2:I1:312:TYR:HB2	2:I1:343:PHE:HD1	1.84	0.43
1:I2:289:LEU:HD23	1:I2:365:ALA:HB2	2.01	0.43
2:I3:90:GLU:HG2	2:I3:121:ARG:HH12	1.84	0.43
2:I5:90:GLU:OE1	2:I5:90:GLU:N	2.52	0.43
2:I5:150:GLY:HA2	2:I5:153:LEU:HG	2.01	0.43
2:I5:184:PRO:HG3	2:I5:394:LYS:HD2	2.00	0.43
2:I9:227:LEU:O	2:I9:231:ILE:HG12	2.18	0.43
2:J1:246:GLY:HA2	2:J1:357:TYR:CD2	2.54	0.43
1:J2:114:ASP:OD2	1:J2:115:SER:N	2.52	0.43
2:J3:121:ARG:HA	2:J3:121:ARG:HD2	1.70	0.43
1:J4:77:ARG:HE	1:J4:90:PHE:HE2	1.66	0.43
2:J9:398:MET:HG3	1:K0:346:PRO:HD2	2.01	0.43
1:K0:2:ARG:HE	1:K0:240:LEU:HD22	1.84	0.43
2:K3:33:ASP:HA	2:K3:85:GLN:HB2	2.01	0.43
2:K3:176:GLN:NE2	2:K3:207:GLU:OE1	2.51	0.43
1:K4:218:THR:OG1	1:K4:219:THR:N	2.51	0.43
1:K4:235:GLY:HA3	1:K4:366:THR:HG21	2.00	0.43
1:K4:404:ASP:OD1	1:K4:405:GLU:N	2.49	0.43
1:K6:50:TYR:OH	1:K6:237:THR:OG1	2.26	0.43
1:K6:145:SER:OG	1:K6:146:GLY:N	2.52	0.43
2:K7:60:LYS:HD2	2:K7:60:LYS:HA	1.85	0.43
2:K7:223:THR:OG1	2:K7:224:TYR:N	2.52	0.43
2:K7:288:VAL:HG13	2:K7:319:TYR:HE2	1.83	0.43
2:K7:405:VAL:HG13	2:K7:418:PHE:HE2	1.84	0.43
2:K9:122:ILE:HD11	2:K9:135:PHE:CE1	2.54	0.43
2:K9:311:LYS:HG2	2:K9:342:GLN:HE21	1.83	0.43
1:L4:138:SER:O	1:L4:139:LEU:HD23	2.18	0.43
1:L6:138:SER:O	1:L6:139:LEU:HD23	2.19	0.43
1:M0:31:ASP:HB2	1:M0:32:PRO:HD2	2.01	0.43
2:M1:35:GLN:OE1	2:M1:35:GLN:N	2.52	0.43
2:M3:286:LEU:HD12	2:M3:286:LEU:HA	1.82	0.43
2:M7:346:TRP:CE3	2:M7:347:CYS:HB3	2.54	0.43
1:N0:248:ALA:HA	1:N0:252:LYS:HD2	2.00	0.43
2:N1:8:HIS:CD2	2:N1:17:GLY:HA3	2.54	0.43
1:N2:48:ASN:OD1	1:N2:48:ASN:N	2.51	0.43
1:N2:67:ASP:N	1:N2:67:ASP:OD1	2.52	0.43
1:N2:70:PRO:N	1:N2:92:PHE:HZ	2.15	0.43
2:N3:102:ASN:HD22	2:N3:105:ARG:CD	2.32	0.43
2:N5:175:PRO:HB3	2:N5:390:ARG:HE	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N5:413:MET:HB3	2:N5:417:GLU:OE2	2.18	0.43
1:N8:36:TYR:CE2	1:N8:44:LEU:HD21	2.53	0.43
1:N8:210:ILE:O	1:N8:214:THR:OG1	2.31	0.43
2:O3:28:HIS:CE1	2:O3:49:PHE:HA	2.54	0.43
2:O5:88:HIS:ND1	2:O5:89:PRO:CD	2.80	0.43
2:O5:328:VAL:O	2:O5:332:VAL:HG23	2.19	0.43
1:O6:309:ARG:H	1:O6:372:THR:CG2	2.32	0.43
2:O7:51:THR:HG23	2:O7:52:PHE:CD2	2.54	0.43
1:O8:155:ILE:HD12	1:O8:155:ILE:HA	1.86	0.43
2:P3:203:MET:HE3	2:P3:267:PHE:HB3	2.00	0.43
1:P8:271:THR:HG21	1:P8:289:LEU:O	2.19	0.43
2:P9:65:CYS:SG	2:P9:66:ILE:N	2.92	0.43
1:Q2:382:SER:HB2	1:Q2:415:MET:HG2	2.01	0.43
1:Q4:219:THR:HG23	1:Q4:219:THR:O	2.19	0.43
1:Q6:55:THR:H	1:Q6:58:ARG:HB3	1.84	0.43
1:Q8:16:ILE:CD1	1:Q8:229:ILE:HD13	2.49	0.43
1:Q8:193:VAL:HG11	1:Q8:418:LEU:HD22	2.01	0.43
2:Q9:16:VAL:HA	2:Q9:228:ASN:HB3	1.99	0.43
1:R8:199:CYS:HB2	1:R8:265:PHE:HD1	1.83	0.43
1:S0:272:PRO:HD3	1:S0:364:SER:HA	2.01	0.43
1:S4:167:PHE:CE2	1:S4:233:MET:HG2	2.54	0.43
1:S4:177:ASP:O	2:S5:352:LYS:HD2	2.19	0.43
2:S5:49:PHE:CE2	2:S5:55:GLU:HB2	2.53	0.43
1:S6:114:ASP:OD1	1:S6:115:SER:N	2.52	0.43
2:S9:72:PRO:HD2	1:T0:2:ARG:NH1	2.34	0.43
1:T0:3:GLU:HB2	1:T0:130:LEU:HA	2.01	0.43
1:T0:249:ASP:OD1	1:T0:252:LYS:HE3	2.19	0.43
1:T0:329:GLN:O	1:T0:333:VAL:HG23	2.19	0.43
2:T1:251:ASP:OD1	2:T1:254:GLU:HG2	2.19	0.43
1:T2:386:THR:HG22	1:T2:412:GLU:OE1	2.19	0.43
2:T3:11:GLN:HB3	41:T4:501:GTP:O2A	2.19	0.43
1:T4:406:MET:O	1:T4:410:GLU:HG2	2.18	0.43
2:T5:76:ASP:HA	2:T5:79:ARG:HD2	1.99	0.43
1:T6:92:PHE:N	1:T6:92:PHE:CD2	2.87	0.43
2:T7:62:VAL:HG23	2:T7:62:VAL:O	2.19	0.43
2:T7:72:PRO:HG3	1:T8:1:MET:HG2	2.01	0.43
2:T7:431:ASP:OD2	13:5K:60:HIS:NE2	2.52	0.43
1:T8:8:GLN:CD	1:T8:17:GLY:HA3	2.39	0.43
2:U1:141:VAL:HG13	2:U1:170:THR:CG2	2.49	0.43
1:U6:173:PRO:HD2	1:U6:380:ARG:NH1	2.34	0.43
1:U6:190:HIS:CD2	1:U6:414:ASN:HB2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U9:125:LEU:HD23	2:U9:125:LEU:HA	1.80	0.43
1:V0:20:PHE:HA	1:V0:230:SER:HB3	2.01	0.43
2:V1:9:ILE:HD11	2:V1:153:LEU:HD22	2.01	0.43
2:V3:278:ALA:HB3	2:V3:279:GLU:OE1	2.19	0.43
1:V8:138:SER:HA	1:V8:169:VAL:HG22	2.01	0.43
2:V9:237:SER:HA	2:V9:320:ARG:HD2	2.00	0.43
1:W0:150:LEU:HD12	1:W0:153:SER:OG	2.19	0.43
2:W1:369:ALA:O	2:W1:371:VAL:HG23	2.19	0.43
2:W3:414:GLU:HG2	2:W3:416:GLY:H	1.84	0.43
1:W6:113:ILE:HD13	1:W6:150:LEU:HD22	2.00	0.43
2:W9:11:GLN:HA	2:W9:14:ILE:HD11	2.01	0.43
2:W9:417:GLU:HA	2:W9:420:GLU:HG2	2.01	0.43
1:X0:334:GLN:NE2	1:X0:348:ASN:OD1	2.51	0.43
1:X0:389:PHE:O	1:X0:392:LYS:NZ	2.34	0.43
1:X2:251:ARG:O	1:X2:255:VAL:HG22	2.19	0.43
2:X3:253:THR:O	2:X3:257:THR:HG23	2.19	0.43
2:X3:301:MET:HE1	2:X3:307:PRO:HD3	2.01	0.43
2:X3:365:GLY:O	8:4V:437:ARG:NH1	2.51	0.43
2:X3:387:ILE:HD12	2:X3:390:ARG:NH2	2.32	0.43
1:X4:156:ARG:HA	1:X4:156:ARG:HD2	1.76	0.43
1:X6:52:ASN:OD1	1:X6:62:ARG:NH2	2.48	0.43
2:X7:183:GLU:OE2	2:X7:184:PRO:HD3	2.18	0.43
1:Y2:204:ASN:OD1	39:Y2:501:GDP:O2'	2.36	0.43
2:Y3:90:GLU:H	2:Z9:283:HIS:CE1	2.36	0.43
2:Y3:246:GLY:H	2:Y3:249:ASN:HD21	1.66	0.43
1:Y4:95:THR:OG1	1:Y4:96:GLY:N	2.52	0.43
1:Y4:190:HIS:NE2	1:Y4:410:GLU:HG3	2.33	0.43
1:Y8:139:LEU:HD12	1:Y8:170:VAL:HG22	2.01	0.43
2:Z1:65:CYS:SG	2:Z1:66:ILE:N	2.92	0.43
1:Z2:175:VAL:HG13	2:Z3:329:ASN:ND2	2.34	0.43
2:Z3:407:TRP:O	2:Z3:411:GLU:HG2	2.19	0.43
1:Z8:83:GLN:O	1:0O:281:TYR:OH	2.20	0.43
1:Z8:190:HIS:HD2	1:Z8:414:ASN:HB2	1.83	0.43
1:Z8:285:THR:OG1	1:Z8:288:GLU:HG2	2.19	0.43
1:0A:67:ASP:N	1:0A:67:ASP:OD1	2.51	0.43
2:0B:115:VAL:HG21	2:0B:152:LEU:HG	1.99	0.43
1:0C:206:ALA:HA	1:0C:209:ASP:OD1	2.19	0.43
1:0C:268:VAL:HG23	1:0C:300:MET:SD	2.58	0.43
1:0C:273:LEU:N	1:0C:292:GLN:HE22	2.12	0.43
1:0E:42:LEU:HD12	1:0E:42:LEU:H	1.82	0.43
1:0E:219:THR:O	1:0E:219:THR:OG1	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0E:285:THR:HG23	1:0E:287:PRO:HD2	2.01	0.43
1:0G:51:PHE:HB3	1:0G:59:TYR:HB3	2.01	0.43
2:0H:55:GLU:O	2:0X:285:GLN:NE2	2.52	0.43
2:0H:234:VAL:HG22	2:0H:272:TYR:CD1	2.53	0.43
2:0H:397:LEU:HD23	2:0H:397:LEU:HA	1.87	0.43
1:0K:58:ARG:HH11	1:0K:84:ILE:HA	1.84	0.43
1:0K:385:PHE:CD1	1:0K:385:PHE:C	2.92	0.43
2:0L:69:ASP:OD1	2:0L:70:LEU:N	2.51	0.43
2:0L:429:GLU:O	2:0L:433:GLU:HG2	2.19	0.43
1:0M:220:PRO:HG2	2:0N:326:LYS:HB2	1.99	0.43
1:0M:297:LYS:HA	1:0M:297:LYS:HD3	1.79	0.43
1:0M:379:LYS:HA	1:0M:382:SER:OG	2.19	0.43
2:0N:377:MET:SD	2:0N:378:ILE:N	2.92	0.43
2:0N:405:VAL:O	2:0N:409:VAL:HG23	2.19	0.43
2:0P:330:ALA:O	2:0P:334:THR:HG23	2.18	0.43
1:0Q:69:GLU:O	1:0Q:72:THR:OG1	2.37	0.43
1:0Q:207:LEU:HD11	1:0Q:229:ILE:HD11	1.99	0.43
1:0S:178:THR:OG1	1:0S:179:VAL:N	2.52	0.43
2:0V:101:ASN:ND2	2:0V:143:GLY:HA2	2.33	0.43
2:0X:139:ASN:O	2:0X:170:THR:HA	2.19	0.43
1:0Y:83:GLN:O	1:1O:281:TYR:OH	2.28	0.43
2:1B:269:LEU:HD12	2:1B:269:LEU:H	1.83	0.43
1:1C:155:ILE:HD12	1:1C:155:ILE:HA	1.89	0.43
2:1D:90:GLU:HB3	2:1D:121:ARG:HH12	1.84	0.43
2:1F:217:LEU:HB3	2:1F:219:ILE:CD1	2.49	0.43
1:1G:212:PHE:HZ	2:1H:326:LYS:HB2	1.84	0.43
1:1K:123:GLU:O	1:1K:126:SER:OG	2.23	0.43
2:1L:305:CYS:HB3	2:1L:387:ILE:HD11	2.01	0.43
1:1M:414:ASN:HA	1:1M:417:ASP:OD2	2.19	0.43
1:1Q:135:VAL:O	1:1Q:166:THR:HA	2.18	0.43
1:1S:355:ASP:O	1:1S:356:ILE:HD13	2.19	0.43
1:1S:414:ASN:O	1:1S:418:LEU:HB2	2.19	0.43
2:1T:149:LEU:HA	2:1T:152:LEU:HD12	2.00	0.43
2:1V:203:MET:C	2:1V:204:LEU:HD12	2.40	0.43
2:1V:407:TRP:CD2	1:1W:255:VAL:HG23	2.54	0.43
2:1Z:329:ASN:HA	2:1Z:332:VAL:HG22	2.00	0.43
1:2A:301:CYS:SG	1:2A:302:ALA:N	2.92	0.43
2:2B:120:ASP:OD2	38:8A:73:TRP:CD2	2.71	0.43
2:2D:372:GLN:HE21	10:5A:376:LEU:HD11	1.84	0.43
2:2F:185:TYR:HE1	2:2F:398:MET:HE3	1.84	0.43
1:2I:397:TRP:HE1	2:2J:260:VAL:HG13	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2J:47:ASP:OD1	2:2J:47:ASP:N	2.51	0.43
2:2J:301:MET:HE1	2:2J:307:PRO:HD3	2.00	0.43
2:2J:417:GLU:OE2	2:2J:417:GLU:N	2.34	0.43
2:2L:4:VAL:HG23	2:2L:134:GLY:O	2.18	0.43
1:2M:177:ASP:OD1	2:2N:248:LEU:HD11	2.19	0.43
1:2M:194:GLU:OE1	1:2M:194:GLU:N	2.50	0.43
2:2P:406:HIS:HA	2:2P:409:VAL:HG22	2.01	0.43
1:2Q:114:ASP:OD1	1:2Q:115:SER:N	2.51	0.43
1:2Q:156:ARG:NH1	1:2Q:197:ASP:OD2	2.51	0.43
2:2R:214:ARG:NH1	38:8A:61:LYS:HZ3	2.17	0.43
2:2T:76:ASP:HA	2:2T:79:ARG:HD2	2.00	0.43
2:2T:119:LEU:HA	2:2T:122:ILE:HG12	2.01	0.43
2:2T:174:SER:OG	2:2T:207:GLU:OE1	2.29	0.43
1:2U:172:SER:OG	1:2U:173:PRO:HD2	2.18	0.43
2:2X:417:GLU:O	2:2X:420:GLU:HG2	2.19	0.43
1:2Y:42:LEU:HD12	38:8C:195:MET:HB3	2.00	0.43
1:3A:95:THR:HG23	1:3A:96:GLY:N	2.34	0.43
1:3A:167:PHE:CZ	1:3A:233:MET:HG2	2.53	0.43
1:3A:173:PRO:HG2	1:3A:174:LYS:NZ	2.34	0.43
1:3A:183:TYR:O	1:3A:187:LEU:HD13	2.18	0.43
2:3B:9:ILE:HD11	2:3B:153:LEU:HD23	2.01	0.43
2:3B:71:GLU:HB3	2:3B:98:ASP:OD1	2.19	0.43
2:3B:77:GLU:OE2	38:8D:199:THR:CG2	2.67	0.43
2:3B:231:ILE:HA	2:3B:234:VAL:HG12	2.00	0.43
2:3D:66:ILE:O	2:3D:66:ILE:HG13	2.19	0.43
1:3G:152:ILE:HG22	1:3G:195:ASN:HB3	2.00	0.43
1:3G:273:LEU:HD23	1:3G:273:LEU:HA	1.88	0.43
2:3J:398:MET:HG3	1:3K:346:PRO:HD2	2.01	0.43
2:3L:33:ASP:OD1	2:3L:33:ASP:N	2.51	0.43
1:3O:91:VAL:HG11	1:3O:116:VAL:HG23	2.00	0.43
1:3O:183:TYR:OH	1:3O:388:MET:HB3	2.18	0.43
2:3P:72:PRO:HG2	1:3Q:46:ARG:HH22	1.84	0.43
2:3P:391:LEU:HD23	2:3P:391:LEU:HA	1.89	0.43
2:3R:179:THR:O	1:3S:350:LYS:HD2	2.19	0.43
3:3Z:216:ILE:HD13	3:3Z:216:ILE:HA	1.89	0.43
3:4D:216:ILE:HD13	3:4D:216:ILE:HA	1.89	0.43
3:4F:86:ASP:O	3:4F:90:ILE:HG12	2.19	0.43
3:4J:184:LEU:HD12	3:4J:184:LEU:C	2.38	0.43
6:4O:22:ALA:O	6:4O:26:GLU:HG2	2.18	0.43
7:4U:77:ARG:NE	24:6Y:19:PRO:HG3	2.33	0.43
8:4X:127:THR:HA	8:4X:130:VAL:HG22	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:5B:264:ALA:O	10:5B:268:MET:HG3	2.19	0.43
10:5C:376:LEU:HD23	10:5C:376:LEU:HA	1.91	0.43
10:5D:233:GLU:OE1	10:5D:234:LEU:HD22	2.18	0.43
11:5E:2:LEU:HG	11:5E:93:TYR:HB2	2.00	0.43
11:5E:110:GLN:CB	11:5E:111:PRO:HD2	2.49	0.43
14:5L:20:GLY:N	14:5L:296:SER:OG	2.52	0.43
14:5L:96:ILE:HG22	14:5L:97:HIS:CD2	2.54	0.43
14:5L:339:HIS:NE2	14:5L:365:ARG:HD2	2.34	0.43
14:5L:417:ILE:HG13	14:5L:418:PHE:N	2.34	0.43
14:5M:55:HIS:HE2	14:5M:88:TRP:HH2	1.67	0.43
14:5N:248:VAL:HB	14:5N:252:ASP:HB2	1.99	0.43
14:5N:417:ILE:HG13	14:5N:418:PHE:N	2.34	0.43
15:5O:172:TRP:HE1	15:5O:207:GLY:HA3	1.84	0.43
15:5O:176:ILE:HG13	15:5O:177:GLY:H	1.83	0.43
15:5P:20:ILE:CG1	19:6E:104:TYR:CE1	3.02	0.43
15:5P:47:LEU:HD12	15:5P:47:LEU:HA	1.73	0.43
17:5V:219:LEU:HA	17:5V:222:ILE:HD12	2.01	0.43
18:6B:104:LEU:HD13	24:6Y:180:TYR:CE1	2.53	0.43
20:6F:107:VAL:HG12	20:6F:114:ASN:HD21	1.84	0.43
22:6N:60:LYS:HE3	22:6N:60:LYS:HB3	1.79	0.43
24:6U:36:VAL:CG2	24:6U:45:LEU:HD11	2.49	0.43
24:6U:349:ASN:HB2	24:6U:352:ASP:OD1	2.19	0.43
24:6W:119:VAL:HG21	24:6W:179:PHE:HD1	1.84	0.43
24:6W:279:TRP:CZ2	24:6W:364:ARG:HG3	2.53	0.43
24:6Y:562:LEU:HD23	24:6Y:562:LEU:HA	1.72	0.43
24:6Z:156:ASP:OD1	24:6Z:157:ASP:N	2.52	0.43
28:7H:451:LYS:CG	28:7H:452:ASN:H	2.32	0.43
29:7J:140:GLU:HG3	29:7J:144:GLN:NE2	2.33	0.43
36:7V:20:GLU:O	36:7V:24:ASN:OD1	2.37	0.43
38:8C:218:PRO:HD2	38:8C:222:GLU:OE1	2.19	0.43
2:4:26:LEU:HD22	26:7D:48:LEU:HD11	2.00	0.42
2:6:324:VAL:HG11	26:7D:142:PHE:CZ	2.52	0.42
1:A5:78:SER:O	24:7A:148:ILE:HA	2.19	0.42
2:B0:145:THR:OG1	41:B0:501:GTP:O1B	2.37	0.42
2:B9:206:ASN:ND2	41:C0:501:GTP:O2'	2.51	0.42
2:D7:145:THR:HG22	41:D7:501:GTP:O3B	2.19	0.42
2:E3:370:LYS:HG2	22:6J:82:LEU:HB2	2.01	0.42
1:E8:357:PRO:HD2	22:6M:111:PRO:HB2	2.00	0.42
1:G2:228:LEU:HD23	1:G2:228:LEU:HA	1.82	0.42
1:G2:272:PRO:HB2	1:G2:282:ARG:NH1	2.24	0.42
1:G4:31:ASP:OD2	1:G4:33:THR:OG1	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G7:221:ARG:NH1	22:6O:178:GLY:O	2.52	0.42
2:G9:98:ASP:OD2	2:G9:99:ALA:N	2.52	0.42
2:G9:101:ASN:HD22	2:G9:143:GLY:HA2	1.83	0.42
1:H2:68:LEU:HG	1:H2:147:MET:HE1	2.00	0.42
1:H4:2:ARG:HB3	1:H4:131:GLN:HB2	2.01	0.42
1:H6:193:VAL:HG11	1:H6:418:LEU:CD1	2.49	0.42
2:H7:200:VAL:HG13	2:H7:268:MET:CE	2.49	0.42
1:I0:3:GLU:HG3	1:I0:127:CYS:HB2	2.00	0.42
1:I0:246:LEU:HD22	1:I0:352:SER:HA	2.00	0.42
2:I1:83:TYR:HB3	2:I1:86:LEU:HB3	2.00	0.42
1:I2:286:VAL:O	1:I2:290:THR:HG23	2.18	0.42
2:I7:294:ALA:O	2:I7:300:SER:OG	2.25	0.42
1:I8:273:LEU:H	1:I8:292:GLN:NE2	2.16	0.42
2:I9:346:TRP:CH2	2:I9:435:VAL:HG23	2.54	0.42
1:J0:77:ARG:HE	1:J0:90:PHE:HE2	1.67	0.42
1:J2:69:GLU:OE1	1:J2:70:PRO:HD2	2.19	0.42
2:J3:286:LEU:O	2:J3:373:ARG:NH1	2.51	0.42
2:J3:362:VAL:HG11	2:J3:370:LYS:HB3	2.01	0.42
2:J5:9:ILE:HD13	2:J5:150:GLY:HA2	2.01	0.42
1:J6:173:PRO:HD2	1:J6:380:ARG:CZ	2.48	0.42
2:J9:145:THR:OG1	41:K0:501:GTP:O1B	2.36	0.42
2:K3:290:GLU:OE1	2:K3:290:GLU:N	2.42	0.42
1:K4:167:PHE:HD1	1:K4:200:MET:HB2	1.85	0.42
2:K5:401:LYS:HB3	2:K5:401:LYS:HE3	1.88	0.42
1:K6:404:ASP:HB3	1:K6:406:MET:SD	2.59	0.42
2:L1:76:ASP:O	2:L1:80:THR:HG23	2.19	0.42
1:L2:3:GLU:HB2	1:L2:130:LEU:HA	2.01	0.42
1:L2:53:GLU:HG3	1:L2:59:TYR:CE1	2.54	0.42
2:L3:205:ASP:OD2	2:L3:206:ASN:N	2.52	0.42
2:L5:111:GLY:O	2:L5:115:VAL:HG12	2.18	0.42
1:L6:304:ASP:HB3	1:L6:307:HIS:HD1	1.84	0.42
2:L7:201:ALA:O	2:L7:268:MET:HE2	2.19	0.42
2:L9:384:ILE:HG13	2:L9:385:GLY:N	2.34	0.42
1:M0:355:ASP:HB3	29:7I:109:THR:HA	2.00	0.42
2:M1:217:LEU:HB3	2:M1:219:ILE:HD12	2.01	0.42
2:M1:274:PRO:HD3	2:M1:374:ALA:HA	2.00	0.42
2:M1:334:THR:HA	2:M1:337:THR:HG22	2.01	0.42
1:M2:58:ARG:CZ	2:N9:282:TYR:CE1	3.02	0.42
1:M2:123:GLU:O	1:M2:126:SER:OG	2.37	0.42
1:M4:178:THR:OG1	1:M4:179:VAL:N	2.51	0.42
2:M7:89:PRO:HB3	19:6E:25:VAL:HG11	1.95	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M8:45:GLU:OE2	19:6E:20:LEU:HG	2.19	0.42
1:M8:175:VAL:CG2	1:M8:205:GLU:HG2	2.45	0.42
1:M8:314:SER:OG	1:M8:368:ILE:HB	2.19	0.42
2:M9:242:LEU:HD11	2:M9:252:ILE:HG12	2.00	0.42
1:N0:418:LEU:O	1:N0:421:GLU:HG2	2.19	0.42
2:N3:156:ARG:HA	2:N3:159:VAL:HG22	2.01	0.42
2:N5:51:THR:HG21	2:N5:243:ARG:HG2	2.01	0.42
1:N6:67:ASP:N	1:N6:67:ASP:OD1	2.53	0.42
2:N9:62:VAL:HG21	2:N9:88:HIS:HB2	2.01	0.42
2:O3:297:GLU:OE1	2:O3:297:GLU:N	2.47	0.42
1:O4:211:CYS:HA	1:O4:215:LEU:HB2	2.00	0.42
1:O8:11:GLN:HA	1:O8:72:THR:HG21	2.01	0.42
2:P3:203:MET:SD	2:P3:267:PHE:HD1	2.42	0.42
1:P4:31:ASP:HB2	1:P4:32:PRO:HD2	2.01	0.42
1:P6:178:THR:OG1	1:P6:181:GLU:HG3	2.19	0.42
1:P8:190:HIS:HD2	1:P8:411:ALA:HA	1.83	0.42
2:P9:21:TRP:CH2	2:P9:63:PRO:HB3	2.53	0.42
1:Q6:108:GLU:HA	1:Q6:111:GLU:OE2	2.19	0.42
1:Q6:174:LYS:HE2	1:Q6:174:LYS:HB2	1.82	0.42
1:Q6:186:THR:HG22	1:Q6:411:ALA:HB1	2.00	0.42
1:Q8:83:GLN:N	1:Q8:83:GLN:OE1	2.51	0.42
2:Q9:147:SER:OG	2:Q9:190:SER:HB3	2.19	0.42
2:R1:276:ILE:HD12	2:R1:276:ILE:HA	1.78	0.42
1:R4:128:ASP:OD1	1:R4:129:CYS:N	2.51	0.42
1:R4:397:TRP:CZ2	2:R5:256:GLN:HB3	2.54	0.42
1:R6:178:THR:OG1	1:R6:181:GLU:HG3	2.18	0.42
2:R7:330:ALA:O	2:R7:334:THR:HG23	2.19	0.42
1:R8:10:GLY:HA2	1:R8:143:THR:HG23	1.99	0.42
1:R8:237:THR:HG22	1:R8:237:THR:O	2.19	0.42
1:S0:219:THR:HB	2:S1:324:VAL:HG11	2.00	0.42
1:S0:317:PHE:HB3	1:S0:321:MET:SD	2.59	0.42
2:S1:176:GLN:HG2	2:S1:177:VAL:N	2.34	0.42
1:S4:174:LYS:HB3	13:5H:14:PHE:CE2	2.54	0.42
1:S4:192:LEU:HD22	1:S4:196:ALA:HB2	2.01	0.42
1:S8:222:PHE:CZ	2:S9:325:PRO:HB3	2.54	0.42
1:T0:95:THR:HG23	1:T0:96:GLY:H	1.84	0.42
1:T2:414:ASN:HD21	3:4D:84:LYS:HD2	1.83	0.42
2:T3:70:LEU:HD12	2:T3:145:THR:HG22	2.01	0.42
2:T5:274:PRO:HD3	2:T5:374:ALA:HA	2.01	0.42
1:T6:246:LEU:HD22	1:T6:352:SER:HA	2.00	0.42
2:T7:209:ILE:HG23	2:T7:230:LEU:HD11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U1:223:THR:OG1	2:U1:224:TYR:N	2.52	0.42
2:U3:32:PRO:HB3	2:U3:83:TYR:CE1	2.54	0.42
2:U5:101:ASN:ND2	2:U5:143:GLY:HA2	2.34	0.42
1:U8:161:ASP:OD2	1:U8:162:ARG:NH1	2.52	0.42
1:U8:208:TYR:CE1	1:U8:225:LEU:HD11	2.54	0.42
2:U9:14:ILE:HD11	2:U9:74:VAL:HG13	2.00	0.42
2:U9:280:LYS:HA	2:U9:280:LYS:HD3	1.84	0.42
1:V0:249:ASP:H	1:V0:252:LYS:HD3	1.84	0.42
2:V1:139:ASN:O	2:V1:170:THR:HA	2.19	0.42
1:V4:53:GLU:OE1	1:V4:57:GLY:HA2	2.19	0.42
1:V4:285:THR:O	1:V4:288:GLU:HG3	2.18	0.42
2:V7:212:ILE:HG23	2:V7:275:ILE:HD12	2.01	0.42
2:V7:426:ALA:O	2:V7:430:LYS:HG2	2.19	0.42
1:V8:86:ARG:HG2	1:V8:88:ASP:H	1.84	0.42
1:W4:101:TRP:CE3	1:W4:403:MET:HE1	2.54	0.42
1:W4:289:LEU:HD23	1:W4:365:ALA:HB2	2.01	0.42
1:W6:130:LEU:HB2	1:W6:162:ARG:HE	1.84	0.42
1:W6:209:ASP:OD1	1:W6:213:ARG:HD3	2.19	0.42
1:W6:260:PHE:HB2	1:W6:263:LEU:HD13	2.01	0.42
1:W6:325:GLU:O	1:W6:329:GLN:HB2	2.19	0.42
1:X2:167:PHE:HZ	1:X2:236:ILE:HD11	1.83	0.42
1:X2:177:ASP:OD1	2:X3:248:LEU:HD11	2.18	0.42
2:X3:27:GLU:HG3	2:X3:28:HIS:HD2	1.84	0.42
2:X3:224:TYR:CD1	2:X3:227:LEU:HD12	2.52	0.42
1:X4:309:ARG:H	1:X4:372:THR:HG22	1.84	0.42
2:X5:180:ALA:HB1	1:X6:256:ASN:HD21	1.83	0.42
1:X6:8:GLN:HB3	1:X6:13:GLY:O	2.19	0.42
1:X6:171:PRO:HG3	1:X6:181:GLU:HB3	2.01	0.42
1:Y0:2:ARG:HE	1:Y0:240:LEU:HD22	1.84	0.42
2:Y3:318:MET:HE1	2:Y3:376:CYS:O	2.20	0.42
1:Y8:337:ASN:ND2	1:Y8:337:ASN:O	2.51	0.42
2:Y9:149:LEU:HA	2:Y9:152:LEU:HB3	2.01	0.42
2:Z1:71:GLU:N	2:Z1:98:ASP:OD2	2.52	0.42
1:Z2:156:ARG:HD2	1:Z2:156:ARG:HA	1.94	0.42
1:Z2:204:ASN:ND2	39:Z2:503:GDP:HN22	2.17	0.42
1:Z2:204:ASN:HD21	39:Z2:503:GDP:HN22	1.66	0.42
1:Z2:409:THR:HA	1:Z2:412:GLU:OE2	2.19	0.42
2:Z5:338:LYS:NZ	2:Z5:340:THR:HG23	2.34	0.42
2:Z7:157:LEU:HD13	2:Z7:166:LYS:HD3	2.01	0.42
1:Z8:67:ASP:N	1:Z8:67:ASP:OD1	2.52	0.42
1:Z8:179:VAL:HG12	2:Z9:349:THR:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z8:294:TRP:CG	1:Z8:333:VAL:HG21	2.54	0.42
2:Z9:85:GLN:O	2:Z9:88:HIS:NE2	2.52	0.42
1:0A:21:TRP:CH2	1:0A:61:PRO:HB3	2.54	0.42
2:0B:9:ILE:O	2:0B:9:ILE:HG13	2.18	0.42
2:0B:139:ASN:O	2:0B:171:VAL:HG23	2.18	0.42
2:0H:288:VAL:O	2:0H:292:THR:OG1	2.24	0.42
1:0M:116:VAL:O	1:0M:120:VAL:HG12	2.19	0.42
1:0Q:170:VAL:HG22	1:0Q:202:LEU:O	2.19	0.42
1:0S:43:GLN:O	1:0S:47:ILE:HG23	2.19	0.42
2:0V:267:PHE:HB2	2:0V:384:ILE:HD12	2.00	0.42
2:0V:298:PRO:HA	2:0V:301:MET:HG3	2.01	0.42
2:0X:223:THR:OG1	2:0X:224:TYR:N	2.51	0.42
2:0Z:337:THR:O	2:0Z:339:ARG:NH1	2.52	0.42
1:1C:98:GLY:HA2	2:1D:254:GLU:OE1	2.18	0.42
2:1D:88:HIS:HE2	2:1D:90:GLU:HB2	1.84	0.42
1:1M:418:LEU:O	1:1M:421:GLU:HG2	2.19	0.42
2:1N:202:VAL:HG22	2:1N:268:MET:HB2	1.99	0.42
1:1O:221:THR:OG1	1:1O:222:PHE:N	2.52	0.42
2:1P:269:LEU:HD21	2:1P:384:ILE:HG23	2.01	0.42
1:1Q:201:VAL:HG21	1:1Q:374:ILE:HD11	2.01	0.42
2:1R:287:SER:OG	2:1R:288:VAL:N	2.52	0.42
2:1R:305:CYS:HB3	2:1R:387:ILE:HD11	2.00	0.42
1:1S:257:LEU:HD21	1:1S:314:SER:OG	2.19	0.42
1:1S:309:ARG:H	1:1S:372:THR:HG22	1.84	0.42
1:1S:396:HIS:H	1:1S:396:HIS:CD2	2.37	0.42
2:1T:242:LEU:HD11	2:1T:252:ILE:HG12	2.01	0.42
1:1U:263:LEU:HD13	1:1U:422:TYR:CE1	2.54	0.42
1:1W:53:GLU:OE1	1:1W:57:GLY:HA2	2.19	0.42
2:1Z:175:PRO:HB3	2:1Z:390:ARG:NE	2.33	0.42
1:2A:20:PHE:CD1	1:2A:233:MET:HE2	2.54	0.42
1:2A:200:MET:HE1	1:2A:236:ILE:HG21	2.01	0.42
2:2B:47:ASP:N	2:2B:47:ASP:OD1	2.50	0.42
2:2B:88:HIS:ND1	2:2R:283:HIS:HA	2.34	0.42
1:2C:141:GLY:HA3	39:2C:502:GDP:PB	2.59	0.42
2:2D:115:VAL:HG11	2:2D:152:LEU:HG	2.00	0.42
2:2D:317:LEU:HB3	2:2D:319:TYR:HE1	1.84	0.42
1:2E:152:ILE:HG22	1:2E:195:ASN:HB3	1.99	0.42
2:2F:325:PRO:HA	2:2F:328:VAL:HG22	2.00	0.42
1:2I:118:ASP:CB	38:8C:99:THR:HG21	2.27	0.42
1:2Q:257:LEU:HA	1:2Q:312:THR:HG21	2.00	0.42
2:2R:21:TRP:CZ3	2:2R:63:PRO:HB3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2R:72:PRO:HD2	1:2S:2:ARG:NH1	2.34	0.42
1:2S:253:LEU:HD23	1:2S:253:LEU:HA	1.89	0.42
2:2T:287:SER:H	2:2T:290:GLU:CD	2.21	0.42
1:2U:43:GLN:O	1:2U:47:ILE:HG23	2.19	0.42
2:2X:27:GLU:OE1	2:2X:243:ARG:NH1	2.52	0.42
1:2Y:331:LEU:HG	1:2Y:335:ASN:OD1	2.19	0.42
2:2Z:8:HIS:CD2	2:2Z:17:GLY:HA3	2.54	0.42
2:2Z:279:GLU:N	2:2Z:279:GLU:CD	2.72	0.42
2:2Z:339:ARG:CZ	38:8C:78:ASP:HA	2.49	0.42
1:3A:34:GLY:HA3	1:3A:58:ARG:HD3	1.99	0.42
1:3A:306:ARG:H	1:3A:306:ARG:HG2	1.68	0.42
1:3C:50:TYR:CE2	1:3C:241:ARG:HD3	2.53	0.42
1:3C:100:ASN:HB3	1:3C:103:LYS:HB2	2.00	0.42
1:3C:395:LEU:O	1:3C:399:THR:HG23	2.18	0.42
2:3D:217:LEU:O	2:3D:219:ILE:HG12	2.19	0.42
2:3H:90:GLU:OE1	2:3H:90:GLU:N	2.52	0.42
2:3H:121:ARG:NH2	3:3X:36:PHE:CG	2.86	0.42
2:3H:164:LYS:HE3	3:3X:136:HIS:HB2	1.99	0.42
2:3H:269:LEU:HD23	2:3H:269:LEU:HA	1.85	0.42
2:3J:14:ILE:HD11	2:3J:74:VAL:HG13	2.00	0.42
1:3K:220:PRO:HG2	2:3L:326:LYS:HB2	2.00	0.42
1:3M:273:LEU:H	1:3M:292:GLN:HE22	1.66	0.42
2:3P:203:MET:HB2	2:3P:303:VAL:HG21	2.01	0.42
1:3Q:68:LEU:HD21	1:3Q:112:LEU:HD22	2.00	0.42
1:3Q:167:PHE:CE2	1:3Q:233:MET:HG2	2.54	0.42
2:3R:37:PRO:HB2	2:3R:39:ASP:OD2	2.19	0.42
2:3T:139:ASN:OD1	2:3T:139:ASN:N	2.51	0.42
3:3V:86:ASP:O	3:3V:90:ILE:HG12	2.19	0.42
3:3V:119:THR:OG1	3:3V:163:ASP:OD1	2.37	0.42
3:3X:86:ASP:O	3:3X:90:ILE:HG12	2.19	0.42
3:3X:119:THR:OG1	3:3X:163:ASP:OD1	2.37	0.42
3:4B:9:LEU:HD22	3:4B:173:ARG:HH11	1.84	0.42
3:4B:86:ASP:O	3:4B:90:ILE:HG12	2.19	0.42
3:4B:216:ILE:HD13	3:4B:216:ILE:HA	1.89	0.42
3:4H:119:THR:OG1	3:4H:163:ASP:OD1	2.37	0.42
5:4L:452:LYS:HA	5:4L:452:LYS:HD3	1.75	0.42
5:4M:265:GLU:OE2	5:4M:268:ARG:NH2	2.52	0.42
5:4M:286:LEU:HD23	5:4M:286:LEU:HA	1.79	0.42
6:4O:287:SER:HB2	6:4O:291:ARG:CZ	2.49	0.42
7:4R:349:LEU:HD23	7:4R:349:LEU:HA	1.91	0.42
7:4U:137:THR:OG1	7:4U:140:ASP:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:4W:370:VAL:O	8:4W:374:GLU:HG2	2.18	0.42
8:4X:138:ASP:OD1	8:4X:139:ALA:N	2.52	0.42
10:5C:247:GLU:O	10:5C:251:GLU:HG2	2.19	0.42
10:5C:295:ARG:CZ	38:8B:194:GLU:HB2	2.49	0.42
10:5D:226:ARG:HH21	10:5D:230:ARG:CZ	2.32	0.42
13:5I:136:PHE:CD2	19:6E:259:SER:HB2	2.43	0.42
14:5L:164:ILE:HG23	14:5L:174:TRP:CD1	2.53	0.42
14:5L:241:GLY:O	14:5L:243:THR:HG23	2.18	0.42
14:5M:96:ILE:HG22	14:5M:97:HIS:CD2	2.54	0.42
14:5M:339:HIS:NE2	14:5M:365:ARG:HD2	2.34	0.42
14:5M:387:CYS:HB2	14:5M:429:THR:O	2.18	0.42
14:5N:113:CYS:SG	14:5N:159:SER:HB3	2.59	0.42
14:5N:241:GLY:O	14:5N:243:THR:HG23	2.18	0.42
14:5N:339:HIS:NE2	14:5N:365:ARG:HD2	2.34	0.42
15:5O:214:ALA:HA	15:5O:217:GLU:HG3	2.01	0.42
15:5P:100:PRO:HB3	15:5P:156:GLY:HA3	2.00	0.42
17:5S:87:VAL:HG13	17:5S:88:PRO:HD2	2.01	0.42
17:5U:87:VAL:HG13	17:5U:88:PRO:HD2	2.01	0.42
18:5X:180:ARG:HH21	18:5X:180:ARG:HG3	1.83	0.42
21:6H:12:ASN:OD1	21:6H:13:GLY:N	2.43	0.42
22:6K:157:VAL:HG21	22:6K:225:ALA:CB	2.49	0.42
22:6L:207:PHE:HB3	22:6L:227:TYR:OH	2.19	0.42
22:6M:83:TRP:CZ3	22:6N:36:VAL:HG11	2.54	0.42
22:6N:240:TYR:O	22:6N:244:VAL:HG12	2.19	0.42
22:6N:277:SER:O	22:6N:281:LYS:HG2	2.19	0.42
22:6O:288:GLY:O	22:6O:291:GLU:HG3	2.19	0.42
24:6V:345:ASP:N	24:6V:345:ASP:OD2	2.49	0.42
24:6Z:505:LYS:HZ2	24:6Z:506:PRO:HD2	1.84	0.42
24:7A:152:ARG:HD3	24:7A:160:PHE:CG	2.54	0.42
26:7F:103:PRO:HG3	26:7F:128:GLY:HA2	2.01	0.42
36:7V:75:PHE:HZ	36:7V:98:VAL:HG21	1.84	0.42
36:7W:75:PHE:HZ	36:7W:98:VAL:HG21	1.84	0.42
38:8C:93:LYS:HE3	38:8C:102:PHE:CZ	2.54	0.42
2:A4:33:ASP:HB3	18:6D:77:THR:HG21	2.00	0.42
2:D1:76:ASP:OD2	22:6M:21:THR:OG1	2.37	0.42
1:E8:41:ASP:OD1	22:6M:188:ARG:HD3	2.18	0.42
2:E9:222:PRO:HA	22:6N:32:LYS:HA	2.00	0.42
2:F5:218:ASP:O	22:6I:176:LYS:NZ	2.50	0.42
2:G1:230:LEU:HD22	2:G1:368:LEU:HD11	2.01	0.42
2:G3:114:ILE:HG21	2:G3:149:LEU:HD22	2.01	0.42
2:G3:267:PHE:HB2	2:G3:384:ILE:HG21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G6:372:THR:O	1:G6:375:GLN:HG3	2.20	0.42
2:G7:230:LEU:O	2:G7:234:VAL:HG23	2.19	0.42
2:G9:121:ARG:HD2	2:G9:124:LYS:HE3	2.00	0.42
2:G9:316:CYS:O	2:G9:317:LEU:HD23	2.18	0.42
2:H1:70:LEU:HB3	2:H1:97:GLU:O	2.19	0.42
1:H4:173:PRO:HB3	1:H4:384:GLN:HE22	1.84	0.42
1:H4:253:LEU:HD11	1:H4:316:LEU:HD11	2.00	0.42
1:H6:3:GLU:HG3	1:H6:127:CYS:SG	2.59	0.42
1:H6:232:VAL:O	1:H6:236:ILE:HG12	2.18	0.42
2:H7:65:CYS:SG	2:H7:66:ILE:N	2.91	0.42
2:H7:69:ASP:OD1	2:H7:70:LEU:N	2.48	0.42
2:H7:72:PRO:HD2	1:H8:2:ARG:NH1	2.34	0.42
1:I2:49:VAL:C	1:I2:62:ARG:HH12	2.22	0.42
2:I5:4:VAL:HG13	2:I5:134:GLY:O	2.19	0.42
1:I8:3:GLU:HB2	1:I8:130:LEU:HD13	2.00	0.42
1:I8:275:SER:O	1:I8:279:GLN:HG3	2.19	0.42
2:I9:172:TYR:CZ	2:I9:203:MET:SD	3.12	0.42
2:J3:334:THR:HA	2:J3:337:THR:HG22	2.01	0.42
2:J5:155:GLU:HB2	2:J5:197:HIS:CE1	2.54	0.42
1:J6:279:GLN:HB3	5:4M:184:ARG:HG3	2.01	0.42
2:J7:223:THR:OG1	2:J7:224:TYR:N	2.52	0.42
2:J7:244:PHE:HE1	29:7J:417:TYR:CG	2.37	0.42
2:J7:317:LEU:HB3	2:J7:319:TYR:HE1	1.85	0.42
1:J8:39:ASP:OD1	1:J8:40:SER:N	2.52	0.42
2:J9:123:ARG:NH2	2:J9:160:ASP:OD2	2.46	0.42
1:K0:175:VAL:HG22	2:K1:329:ASN:ND2	2.34	0.42
2:K3:75:VAL:HG11	2:K3:94:SER:HB2	2.01	0.42
2:K3:90:GLU:CG	2:K3:121:ARG:HH22	2.31	0.42
1:K8:175:VAL:HG13	2:K9:329:ASN:ND2	2.34	0.42
2:L5:381:SER:OG	2:L5:382:THR:N	2.52	0.42
2:L7:60:LYS:HE3	2:L7:88:HIS:NE2	2.34	0.42
2:L7:238:LEU:HD12	2:L7:239:THR:HG23	2.01	0.42
2:L7:241:SER:OG	2:L7:250:VAL:O	2.30	0.42
2:M3:172:TYR:CZ	2:M3:203:MET:SD	3.12	0.42
2:M3:224:TYR:CD1	1:M4:323:THR:HG21	2.54	0.42
2:M7:89:PRO:HB2	19:6E:25:VAL:HG11	1.93	0.42
2:M9:49:PHE:HB2	2:M9:53:PHE:HD2	1.83	0.42
1:N2:31:ASP:HB2	1:N2:32:PRO:HD2	2.00	0.42
1:N2:178:THR:HG22	2:N3:352:LYS:HE2	2.00	0.42
2:N3:4:VAL:HG12	2:N3:134:GLY:H	1.84	0.42
1:N6:320:ARG:NH2	32:7O:67:ARG:HD3	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N8:51:PHE:HB3	1:N8:59:TYR:HB3	2.01	0.42
1:O0:131:GLN:HE21	1:O0:250:LEU:HG	1.84	0.42
1:O0:272:PRO:HG2	27:7G:54:HIS:CD2	2.54	0.42
1:O2:204:ASN:ND2	39:O2:502:GDP:HN22	2.16	0.42
2:O5:319:TYR:HB3	2:O5:323:VAL:HG21	2.01	0.42
1:O6:344:TRP:CE3	1:O6:345:ILE:HG13	2.54	0.42
2:O9:326:LYS:HG3	2:O9:327:ASP:N	2.34	0.42
2:P3:338:LYS:HZ2	2:P3:339:ARG:N	2.17	0.42
1:P6:67:ASP:OD1	1:P6:68:LEU:N	2.47	0.42
2:P9:319:TYR:HD2	2:P9:323:VAL:HG21	1.84	0.42
2:Q1:167:LEU:HD13	2:Q1:200:VAL:HB	2.01	0.42
1:Q2:108:GLU:HA	1:Q2:111:GLU:OE2	2.19	0.42
1:Q2:219:THR:O	1:Q2:219:THR:OG1	2.33	0.42
1:Q8:113:ILE:HD12	1:Q8:116:VAL:CG1	2.48	0.42
2:Q9:164:LYS:HB3	2:Q9:164:LYS:HE3	1.58	0.42
2:Q9:417:GLU:HA	2:Q9:420:GLU:HG2	2.01	0.42
1:R0:317:PHE:HB3	1:R0:321:MET:SD	2.59	0.42
1:R4:177:ASP:OD2	2:R5:248:LEU:HD11	2.19	0.42
1:R6:1:MET:N	1:R6:48:ASN:OD1	2.53	0.42
2:S1:51:THR:HG21	2:S1:243:ARG:HG2	2.01	0.42
1:S4:189:VAL:O	1:S4:193:VAL:HG12	2.18	0.42
1:S4:312:THR:HB	1:S4:350:LYS:HZ2	1.84	0.42
2:S5:266:HIS:O	2:S5:266:HIS:ND1	2.49	0.42
1:S6:128:ASP:OD1	1:S6:128:ASP:N	2.44	0.42
1:S6:359:LYS:HB3	31:7M:9:ARG:CZ	2.48	0.42
2:S7:145:THR:OG1	41:S8:501:GTP:O1B	2.37	0.42
2:S7:288:VAL:HG21	2:S7:327:ASP:OD1	2.19	0.42
2:S7:315:CYS:SG	2:S7:316:CYS:N	2.92	0.42
2:S9:9:ILE:HD13	2:S9:150:GLY:HA2	2.01	0.42
2:S9:167:LEU:HD21	2:S9:256:GLN:HE22	1.84	0.42
2:S9:174:SER:OG	2:S9:207:GLU:OE1	2.37	0.42
1:T2:170:VAL:HG22	1:T2:202:LEU:O	2.19	0.42
2:T5:327:ASP:OD1	2:T5:327:ASP:N	2.50	0.42
1:T6:307:HIS:CD2	17:5U:52:PRO:HB3	2.54	0.42
1:T8:173:PRO:HB3	1:T8:384:GLN:HE22	1.84	0.42
1:U2:3:GLU:HG3	1:U2:127:CYS:SG	2.60	0.42
1:U4:295:ASP:HB2	1:U4:298:ASN:HB2	2.02	0.42
2:U5:53:PHE:HA	2:U5:62:VAL:O	2.19	0.42
2:U7:336:LYS:HZ2	2:U7:350:GLY:H	1.66	0.42
2:U9:88:HIS:HA	2:W5:283:HIS:CG	2.55	0.42
2:U9:97:GLU:OE2	2:U9:105:ARG:NH2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U9:246:GLY:N	2:U9:249:ASN:HD21	2.15	0.42
2:U9:286:LEU:HD12	2:U9:290:GLU:OE2	2.18	0.42
2:V3:394:LYS:HB2	1:V4:346:PRO:HG3	2.01	0.42
1:V4:41:ASP:OD1	1:V4:41:ASP:N	2.52	0.42
1:V4:122:LYS:HA	1:V4:122:LYS:HD3	1.81	0.42
1:V4:272:PRO:HD3	1:V4:364:SER:HA	2.01	0.42
1:V6:95:THR:HG23	1:V6:96:GLY:N	2.34	0.42
2:V7:101:ASN:OD1	2:V7:186:ASN:ND2	2.49	0.42
2:V7:331:SER:O	2:V7:334:THR:OG1	2.24	0.42
1:W0:165:LEU:HD23	1:W0:165:LEU:HA	1.83	0.42
2:W1:223:THR:OG1	1:W2:245:GLN:NE2	2.41	0.42
1:W2:128:ASP:N	1:W2:128:ASP:OD1	2.50	0.42
1:W2:156:ARG:HD2	1:W2:156:ARG:HA	1.72	0.42
1:W2:274:THR:HG21	1:W2:282:ARG:HD2	2.00	0.42
2:W5:175:PRO:HG2	2:W5:176:GLN:OE1	2.19	0.42
1:W6:208:TYR:CE1	1:W6:225:LEU:HD11	2.54	0.42
2:W7:172:TYR:CZ	2:W7:203:MET:SD	3.12	0.42
2:W9:430:LYS:HA	2:W9:433:GLU:OE2	2.19	0.42
1:X0:70:PRO:N	1:X0:92:PHE:HZ	2.16	0.42
1:X2:39:ASP:OD1	1:X2:40:SER:N	2.51	0.42
2:X3:70:LEU:HB3	2:X3:97:GLU:O	2.18	0.42
2:X3:209:ILE:HG12	2:X3:227:LEU:HD22	2.01	0.42
2:X3:352:LYS:HD2	2:X3:352:LYS:HA	1.83	0.42
1:X6:30:ILE:HG13	1:X6:35:THR:O	2.19	0.42
2:X7:69:ASP:OD1	2:X7:70:LEU:N	2.52	0.42
2:Y3:124:LYS:HA	2:Y3:127:ASP:OD1	2.19	0.42
2:Y3:264:ARG:HH22	2:Y3:431:ASP:CG	2.23	0.42
2:Y3:428:LEU:HA	2:Y3:431:ASP:OD1	2.19	0.42
1:Y6:273:LEU:H	1:Y6:292:GLN:NE2	2.10	0.42
1:Y8:189:VAL:O	1:Y8:193:VAL:HG13	2.19	0.42
2:Y9:12:ALA:HA	2:Y9:15:GLN:OE1	2.19	0.42
2:Y9:73:THR:OG1	2:Y9:74:VAL:N	2.52	0.42
2:Y9:407:TRP:O	2:Y9:411:GLU:HG2	2.19	0.42
1:Z0:251:ARG:O	1:Z0:255:VAL:HG13	2.19	0.42
1:Z0:272:PRO:HA	1:Z0:292:GLN:OE1	2.20	0.42
1:Z0:316:LEU:HB3	1:Z0:366:THR:OG1	2.19	0.42
1:Z2:167:PHE:CE2	1:Z2:233:MET:SD	3.13	0.42
1:Z2:181:GLU:HG2	1:Z2:182:PRO:HD3	2.00	0.42
2:Z3:21:TRP:CZ2	2:Z3:65:CYS:HB2	2.54	0.42
2:Z5:176:GLN:HG2	2:Z5:177:VAL:N	2.33	0.42
2:Z5:268:MET:HB3	2:Z5:378:ILE:HG23	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z6:202:LEU:CD2	1:Z6:229:ILE:HD13	2.48	0.42
2:Z7:27:GLU:OE1	2:Z7:28:HIS:HD2	2.02	0.42
2:0B:21:TRP:CZ3	2:0B:63:PRO:HB3	2.54	0.42
1:0C:335:ASN:O	1:0C:338:SER:OG	2.37	0.42
1:0E:293:MET:SD	1:0E:367:PHE:HB2	2.60	0.42
1:0E:313:ALA:HB1	1:0E:367:PHE:CE1	2.55	0.42
1:0G:183:TYR:O	1:0G:187:LEU:HD13	2.19	0.42
2:0J:75:VAL:HG21	2:0J:94:SER:HB2	2.02	0.42
1:0M:2:ARG:HH21	1:0M:240:LEU:HD13	1.83	0.42
1:0O:219:THR:O	1:0O:219:THR:OG1	2.31	0.42
1:0O:379:LYS:HA	1:0O:379:LYS:HD2	1.72	0.42
1:0O:383:GLU:OE2	1:0O:384:GLN:HG3	2.19	0.42
1:0U:415:MET:O	1:0U:418:LEU:HG	2.19	0.42
2:0X:33:ASP:OD1	2:0X:34:GLY:N	2.53	0.42
2:1B:157:LEU:HD23	2:1B:157:LEU:HA	1.79	0.42
2:1D:196:GLU:OE2	2:1D:197:HIS:NE2	2.52	0.42
1:1E:77:ARG:HE	1:1E:90:PHE:HE2	1.67	0.42
1:1E:273:LEU:N	1:1E:292:GLN:HE22	2.12	0.42
1:1E:391:ARG:O	2:1F:262:TYR:OH	2.37	0.42
1:1G:156:ARG:HD2	1:1G:156:ARG:HA	1.86	0.42
1:1G:213:ARG:NH2	1:1G:297:LYS:HG3	2.34	0.42
2:1L:431:ASP:O	2:1L:435:VAL:HG22	2.20	0.42
1:1O:285:THR:HG23	1:1O:288:GLU:H	1.84	0.42
2:1R:176:GLN:HG2	2:1R:177:VAL:N	2.34	0.42
1:1U:382:SER:HB3	1:1U:415:MET:HG2	2.00	0.42
1:1W:144:GLY:N	39:1W:502:GDP:O1B	2.52	0.42
2:2B:119:LEU:HD12	2:2B:120:ASP:OD1	2.19	0.42
1:2C:219:THR:O	1:2C:219:THR:OG1	2.31	0.42
1:2C:418:LEU:O	1:2C:421:GLU:HG2	2.18	0.42
2:2D:14:ILE:HD11	2:2D:74:VAL:HG22	2.01	0.42
2:2D:278:ALA:HA	2:2D:369:ALA:HB2	2.00	0.42
2:2L:51:THR:HG21	2:2L:243:ARG:HG2	2.00	0.42
2:2L:417:GLU:H	2:2L:417:GLU:CD	2.23	0.42
2:2N:90:GLU:H	2:3D:283:HIS:CE1	2.37	0.42
2:2N:145:THR:OG1	41:2N:501:GTP:O1B	2.37	0.42
2:2N:409:VAL:HA	2:2N:413:MET:O	2.19	0.42
2:2P:65:CYS:SG	2:2P:87:PHE:HE1	2.42	0.42
1:2U:233:MET:O	1:2U:237:THR:HG22	2.19	0.42
2:2V:251:ASP:OD1	2:2V:253:THR:HG22	2.19	0.42
2:2X:223:THR:OG1	2:2X:224:TYR:N	2.52	0.42
2:2Z:333:ALA:O	2:2Z:337:THR:HG23	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3A:192:LEU:HD23	1:3A:192:LEU:HA	1.83	0.42
1:3C:105:HIS:CE1	1:3C:150:LEU:HD13	2.53	0.42
2:3D:90:GLU:HG3	2:3D:121:ARG:NH1	2.34	0.42
2:3F:124:LYS:NZ	3:3V:35:CYS:SG	2.93	0.42
2:3F:420:GLU:HA	2:3F:423:GLU:HG3	2.01	0.42
1:3I:418:LEU:O	1:3I:421:GLU:HG2	2.18	0.42
1:3K:128:ASP:OD1	1:3K:128:ASP:N	2.48	0.42
1:3K:139:LEU:HA	1:3K:145:SER:OG	2.19	0.42
1:3M:330:MET:HA	1:3M:333:VAL:HG12	2.01	0.42
1:3O:154:LYS:HA	1:3O:154:LYS:HD3	1.90	0.42
2:3P:84:ARG:NE	23:6S:15:ARG:HH22	2.12	0.42
2:3P:191:THR:HA	2:3P:194:LEU:HB3	2.01	0.42
2:3R:72:PRO:HD2	1:3S:2:ARG:NH1	2.34	0.42
2:3R:297:GLU:OE1	2:3R:297:GLU:N	2.36	0.42
1:3S:113:ILE:O	1:3S:116:VAL:HG12	2.19	0.42
2:3T:119:LEU:O	2:3T:122:ILE:HG22	2.19	0.42
4:3Y:94:LEU:HB2	4:3Y:152:LEU:HD11	1.99	0.42
3:3Z:86:ASP:O	3:3Z:90:ILE:HG12	2.19	0.42
3:4D:86:ASP:O	3:4D:90:ILE:HG12	2.19	0.42
3:4F:216:ILE:HD13	3:4F:216:ILE:HA	1.89	0.42
3:4H:86:ASP:O	3:4H:90:ILE:HG12	2.19	0.42
5:4M:324:MET:HG3	5:4M:325:MET:SD	2.59	0.42
7:4S:18:ARG:CZ	7:4S:18:ARG:HB2	2.49	0.42
9:4Z:197:ALA:HA	9:4Z:200:GLU:OE2	2.19	0.42
9:4Z:395:LYS:HE3	9:4Z:395:LYS:HB2	1.85	0.42
10:5A:335:ALA:O	10:5A:338:LYS:HG3	2.19	0.42
10:5B:291:GLU:O	10:5B:294:LEU:HG	2.19	0.42
10:5C:138:HIS:O	10:5C:142:GLU:HG2	2.18	0.42
10:5C:206:ARG:HA	10:5C:209:GLU:OE1	2.19	0.42
14:5L:387:CYS:HB2	14:5L:429:THR:O	2.19	0.42
14:5L:506:SER:HB2	14:5L:508:PHE:CE2	2.55	0.42
14:5M:164:ILE:HG23	14:5M:174:TRP:CD1	2.54	0.42
14:5M:210:TYR:CE1	14:5M:220:GLN:HB2	2.54	0.42
14:5M:241:GLY:O	14:5M:243:THR:HG23	2.18	0.42
14:5M:492:SER:HB3	14:5M:508:PHE:CE1	2.55	0.42
14:5N:55:HIS:HE2	14:5N:88:TRP:HH2	1.67	0.42
14:5N:96:ILE:HG22	14:5N:97:HIS:CD2	2.54	0.42
14:5N:164:ILE:HG23	14:5N:174:TRP:CD1	2.54	0.42
14:5N:425:GLN:OE1	14:5N:425:GLN:N	2.44	0.42
15:5O:350:ASP:OD1	15:5O:353:ARG:HB2	2.19	0.42
15:5P:93:ARG:HD3	15:5P:162:GLU:OE2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:5P:263:PHE:HE2	15:5P:326:LEU:HD23	1.83	0.42
17:5T:87:VAL:HG13	17:5T:88:PRO:HD2	2.01	0.42
17:5T:228:THR:HA	17:5T:231:ARG:NE	2.34	0.42
21:6H:159:ALA:O	21:6H:163:THR:HG23	2.18	0.42
22:6J:141:LYS:HE3	22:6J:141:LYS:HB3	1.86	0.42
22:6J:201:ARG:HB3	22:6J:237:TYR:HB3	2.00	0.42
22:6M:146:LEU:HD12	22:6M:149:ILE:HD12	2.00	0.42
22:6N:264:GLN:NE2	24:6Y:406:ALA:HA	2.34	0.42
22:6O:171:GLU:HA	22:6O:174:GLU:OE1	2.20	0.42
22:6P:274:GLU:O	22:6P:278:GLN:NE2	2.52	0.42
24:6T:103:LYS:HG2	24:6T:116:ILE:HG12	2.01	0.42
24:6U:36:VAL:O	24:6U:42:GLU:HB3	2.18	0.42
24:6U:97:ARG:NH2	24:6U:99:TYR:OH	2.48	0.42
24:6U:473:TYR:CD1	24:6U:517:LEU:HD11	2.54	0.42
24:6V:130:MET:HE3	24:6V:130:MET:HB2	1.86	0.42
24:6X:505:LYS:HZ2	24:6X:510:GLU:HG3	1.84	0.42
24:6Z:256:LEU:HD23	24:6Z:256:LEU:HA	1.86	0.42
24:6Z:472:SER:HB2	24:6Z:481:LEU:HD21	2.01	0.42
24:7A:123:TYR:HD1	24:7A:130:MET:SD	2.42	0.42
24:7A:142:ILE:HG13	24:7A:144:GLN:HG3	2.00	0.42
26:7D:136:PHE:HB3	26:7D:137:PRO:CD	2.44	0.42
29:7I:136:LEU:HD12	29:7I:136:LEU:HA	1.80	0.42
30:7K:268:ASP:N	30:7K:268:ASP:OD1	2.51	0.42
31:7N:60:ILE:H	31:7N:60:ILE:HG12	1.69	0.42
34:7R:95:ILE:O	34:7R:98:GLU:HG3	2.19	0.42
34:7R:141:GLU:O	34:7R:144:GLU:HG3	2.19	0.42
38:8B:207:ASP:OD1	38:8B:208:GLU:N	2.50	0.42
38:8B:229:ASN:HB2	38:8B:232:PHE:CZ	2.54	0.42
2:A2:29:GLY:O	26:7F:45:MET:CE	1.87	0.42
2:F5:88:HIS:HB3	2:H1:283:HIS:CE1	2.54	0.42
2:F5:365:GLY:H	22:6I:165:MET:HE3	1.83	0.42
1:G2:101:TRP:HB2	1:G2:184:ASN:OD1	2.19	0.42
1:G2:208:TYR:CE1	1:G2:225:LEU:HD11	2.54	0.42
1:G4:217:LEU:HD23	1:G4:217:LEU:HA	1.85	0.42
2:G5:332:VAL:HA	2:G5:335:ILE:HG22	2.02	0.42
1:G6:149:THR:HG23	1:G6:191:GLN:HG2	2.01	0.42
1:G6:177:ASP:N	1:G6:181:GLU:OE2	2.52	0.42
1:G8:137:HIS:CE1	1:G8:168:SER:HB3	2.54	0.42
2:H3:4:VAL:HG13	2:H3:52:PHE:HE1	1.84	0.42
2:H3:220:GLU:H	2:H3:220:GLU:CD	2.22	0.42
1:H4:179:VAL:HG22	2:H5:258:ASN:HD22	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H4:251:ARG:O	1:H4:255:VAL:HG23	2.19	0.42
1:H4:309:ARG:H	1:H4:372:THR:CG2	2.31	0.42
1:H8:48:ASN:O	1:H8:62:ARG:NH2	2.52	0.42
2:H9:35:GLN:OE1	2:H9:35:GLN:N	2.53	0.42
1:I0:414:ASN:HA	1:I0:417:ASP:OD2	2.20	0.42
1:I2:22:GLU:HG2	1:I2:81:TYR:HB2	2.00	0.42
1:I4:214:THR:O	1:I4:275:SER:OG	2.32	0.42
1:I4:395:LEU:HD23	1:I4:395:LEU:HA	1.88	0.42
1:I8:396:HIS:HA	1:I8:399:THR:OG1	2.19	0.42
2:I9:114:ILE:HD12	2:I9:114:ILE:HA	1.89	0.42
2:I9:141:VAL:O	2:I9:147:SER:OG	2.37	0.42
2:I9:266:HIS:O	2:I9:266:HIS:ND1	2.50	0.42
2:J3:165:SER:HA	2:J3:199:ASP:OD2	2.19	0.42
1:J4:163:MET:HB3	1:J4:250:LEU:HD22	2.01	0.42
1:J4:360:GLY:N	16:5Q:12:GLN:O	2.49	0.42
1:J6:52:ASN:OD1	1:J6:62:ARG:NH2	2.52	0.42
1:J6:185:ALA:O	1:J6:189:VAL:HG12	2.19	0.42
2:J7:406:HIS:HA	2:J7:409:VAL:HG22	2.00	0.42
1:K0:135:VAL:HG12	1:K0:137:HIS:HD2	1.84	0.42
1:K0:182:PRO:O	1:K0:186:THR:HG22	2.19	0.42
2:K1:266:HIS:O	2:K1:266:HIS:ND1	2.52	0.42
2:K3:414:GLU:N	2:K3:414:GLU:OE1	2.52	0.42
1:K6:3:GLU:HB2	1:K6:130:LEU:HA	2.00	0.42
2:K7:108:TYR:HA	2:K7:112:LYS:NZ	2.33	0.42
1:K8:137:HIS:NE2	1:K8:168:SER:OG	2.52	0.42
1:K8:222:PHE:HD1	1:K8:225:LEU:HD12	1.84	0.42
1:K8:391:ARG:HB3	2:K9:346:TRP:CZ3	2.54	0.42
1:L0:186:THR:HG22	1:L0:411:ALA:HB1	2.00	0.42
2:L1:330:ALA:O	2:L1:334:THR:HG23	2.20	0.42
2:L7:155:GLU:OE1	2:L7:156:ARG:HG2	2.20	0.42
2:L7:172:TYR:CD2	2:L7:203:MET:HG2	2.53	0.42
2:M1:84:ARG:HH21	27:7G:114:GLY:HA2	1.83	0.42
1:M2:240:LEU:HD11	1:M2:250:LEU:HD13	2.02	0.42
2:M3:125:LEU:HA	2:M3:125:LEU:HD23	1.81	0.42
1:M8:65:LEU:HD12	1:M8:90:PHE:CE1	2.54	0.42
1:M8:98:GLY:HA2	2:M9:254:GLU:OE2	2.19	0.42
2:M9:189:LEU:HD11	2:M9:418:PHE:CE1	2.55	0.42
2:N1:430:LYS:O	2:N1:433:GLU:HG2	2.19	0.42
1:N2:117:LEU:HD11	1:N2:154:LYS:HB3	2.02	0.42
1:N2:219:THR:O	1:N2:219:THR:OG1	2.35	0.42
1:N8:414:ASN:HA	1:N8:417:ASP:OD1	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O1:76:ASP:OD1	1:O2:46:ARG:NH2	2.51	0.42
2:O3:326:LYS:HG3	2:O3:327:ASP:N	2.35	0.42
2:O5:3:GLU:HG3	2:O5:51:THR:HA	2.01	0.42
1:O6:138:SER:HA	1:O6:169:VAL:HG22	2.01	0.42
1:O6:179:VAL:H	2:O7:258:ASN:ND2	2.17	0.42
1:O6:279:GLN:NE2	32:7P:100:ARG:O	2.52	0.42
2:O7:384:ILE:HG13	2:O7:385:GLY:N	2.33	0.42
1:O8:49:VAL:HG11	1:O8:241:ARG:HG2	2.00	0.42
1:O8:337:ASN:HB2	1:O8:340:TYR:HD2	1.84	0.42
2:O9:280:LYS:O	2:O9:283:HIS:HB3	2.20	0.42
2:P3:205:ASP:OD1	2:P3:206:ASN:N	2.49	0.42
2:P3:306:ASP:HB3	2:P3:309:HIS:HD2	1.84	0.42
2:P3:312:TYR:HB2	2:P3:343:PHE:CD1	2.54	0.42
1:P8:3:GLU:HB2	1:P8:130:LEU:HA	2.01	0.42
1:P8:40:SER:OG	1:P8:43:GLN:HG3	2.19	0.42
1:Q0:117:LEU:HA	1:Q0:117:LEU:HD23	1.80	0.42
2:Q1:414:GLU:OE1	2:Q1:414:GLU:N	2.52	0.42
1:Q2:114:ASP:OD1	1:Q2:115:SER:N	2.52	0.42
1:Q4:302:ALA:N	1:Q4:377:MET:HE2	2.34	0.42
2:R1:116:ASP:OD1	2:R1:117:LEU:N	2.53	0.42
2:R1:155:GLU:HG2	2:R1:197:HIS:ND1	2.34	0.42
2:R1:176:GLN:HG2	2:R1:177:VAL:N	2.33	0.42
2:R1:360:PRO:O	2:R1:370:LYS:NZ	2.50	0.42
1:R6:8:GLN:CD	1:R6:17:GLY:HA3	2.40	0.42
1:R6:272:PRO:HD3	1:R6:364:SER:HA	2.00	0.42
1:R6:375:GLN:HB2	1:R6:419:VAL:HG13	2.01	0.42
1:S0:4:ILE:HB	1:S0:50:TYR:HE1	1.83	0.42
2:S5:235:ILE:O	2:S5:239:THR:HG23	2.19	0.42
2:S9:189:LEU:HD13	2:S9:413:MET:SD	2.60	0.42
2:T1:165:SER:OG	2:T1:256:GLN:NE2	2.52	0.42
2:T1:259:LEU:HD21	2:T1:316:CYS:HB2	2.00	0.42
2:T3:326:LYS:HD2	2:T3:327:ASP:N	2.33	0.42
1:T4:325:GLU:O	1:T4:329:GLN:HG2	2.20	0.42
2:T5:88:HIS:ND1	2:T5:89:PRO:HD2	2.34	0.42
2:T7:241:SER:OG	2:T7:250:VAL:O	2.24	0.42
2:U5:119:LEU:HD11	2:U5:156:ARG:HB3	2.01	0.42
2:U5:217:LEU:O	2:U5:219:ILE:HD12	2.19	0.42
1:U6:286:VAL:HG21	1:U6:325:GLU:HB3	2.01	0.42
1:U6:309:ARG:O	1:U6:372:THR:HG22	2.19	0.42
2:V1:255:PHE:HA	2:V1:259:LEU:HD13	2.00	0.42
1:V6:203:ASP:HB2	1:V6:205:GLU:CD	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V8:138:SER:O	1:V8:139:LEU:HD23	2.19	0.42
1:W0:417:ASP:HA	1:W0:420:SER:OG	2.19	0.42
1:W2:249:ASP:O	1:W2:253:LEU:HG	2.19	0.42
1:W2:273:LEU:H	1:W2:292:GLN:HE22	1.67	0.42
1:W2:325:GLU:O	1:W2:329:GLN:HB2	2.19	0.42
1:W4:86:ARG:HB3	1:W4:89:ASN:OD1	2.19	0.42
1:W4:260:PHE:HB2	1:W4:263:LEU:HD23	2.00	0.42
2:W7:69:ASP:OD1	2:W7:70:LEU:N	2.46	0.42
2:W7:254:GLU:N	2:W7:254:GLU:OE1	2.52	0.42
1:W8:273:LEU:HD23	1:W8:273:LEU:HA	1.89	0.42
2:W9:33:ASP:N	2:W9:33:ASP:OD1	2.51	0.42
1:X2:164:MET:HB3	1:X2:197:ASP:HB2	2.02	0.42
1:X2:239:CYS:SG	1:X2:240:LEU:N	2.92	0.42
2:X3:331:SER:O	2:X3:334:THR:HG22	2.19	0.42
1:X4:165:LEU:HD12	1:X4:165:LEU:HA	1.68	0.42
1:X4:165:LEU:HD11	1:X4:200:MET:HG2	2.00	0.42
2:X5:33:ASP:O	2:X5:60:LYS:NZ	2.52	0.42
2:X7:344:VAL:HG13	2:X7:346:TRP:HB3	2.02	0.42
2:X9:121:ARG:HE	2:X9:124:LYS:NZ	2.17	0.42
1:Y2:418:LEU:O	1:Y2:421:GLU:HG2	2.19	0.42
2:Y5:34:GLY:HA3	2:Y5:60:LYS:NZ	2.34	0.42
1:Z0:11:GLN:HG2	1:Z0:12:CYS:H	1.84	0.42
2:Z3:11:GLN:HE22	2:Z3:15:GLN:NE2	2.17	0.42
1:Z6:30:ILE:HG13	1:Z6:35:THR:O	2.20	0.42
2:Z7:17:GLY:HA3	2:Z7:67:PHE:CZ	2.53	0.42
1:Z8:116:VAL:HG21	1:Z8:151:LEU:HD21	2.01	0.42
1:Z8:175:VAL:HA	2:Z9:329:ASN:OD1	2.19	0.42
1:Z8:247:ASN:O	1:Z8:252:LYS:NZ	2.50	0.42
1:Z8:293:MET:SD	1:Z8:367:PHE:HB2	2.59	0.42
2:Z9:33:ASP:O	2:Z9:60:LYS:NZ	2.51	0.42
1:0A:113:ILE:HD13	1:0A:150:LEU:CD2	2.50	0.42
1:0C:304:ASP:HB3	1:0C:307:HIS:CG	2.54	0.42
1:0E:270:PHE:HD1	1:0E:366:THR:HG22	1.84	0.42
2:0F:425:LEU:HD23	2:0F:429:GLU:HG2	2.00	0.42
1:0G:13:GLY:HA2	1:0G:16:ILE:HG12	2.01	0.42
1:0I:148:GLY:O	1:0I:152:ILE:HG12	2.19	0.42
1:0I:314:SER:HA	1:0I:350:LYS:O	2.19	0.42
2:0L:147:SER:OG	2:0L:148:GLY:N	2.51	0.42
1:0M:21:TRP:CZ3	1:0M:61:PRO:HB3	2.54	0.42
1:0M:46:ARG:HA	1:0M:46:ARG:HD3	1.80	0.42
1:0M:222:PHE:CD1	1:0M:225:LEU:HD12	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0N:407:TRP:O	2:0N:411:GLU:HG2	2.20	0.42
1:0Q:21:TRP:CZ3	1:0Q:61:PRO:HB3	2.55	0.42
2:0R:27:GLU:HG3	2:0R:28:HIS:CD2	2.55	0.42
1:0U:322:SER:O	1:0U:326:VAL:HG23	2.19	0.42
2:0V:271:SER:HB3	2:0V:377:MET:HB3	2.02	0.42
2:0V:286:LEU:CD2	2:0V:371:VAL:HG13	2.48	0.42
1:0W:69:GLU:C	1:0W:92:PHE:HZ	2.22	0.42
2:0X:88:HIS:ND1	2:1N:283:HIS:HB2	2.34	0.42
2:0X:229:ARG:HD3	2:0X:363:VAL:HG11	2.02	0.42
2:0X:370:LYS:HD3	2:0X:370:LYS:HA	1.81	0.42
1:0Y:344:TRP:O	1:0Y:345:ILE:HD13	2.17	0.42
2:0Z:298:PRO:HA	2:0Z:301:MET:HG3	2.01	0.42
1:1A:415:MET:O	1:1A:419:VAL:HG23	2.18	0.42
1:1A:418:LEU:O	1:1A:421:GLU:HG2	2.19	0.42
1:1C:4:ILE:HA	1:1C:132:GLY:O	2.19	0.42
1:1C:418:LEU:O	1:1C:421:GLU:HG2	2.19	0.42
2:1D:420:GLU:O	2:1D:424:ASP:HB2	2.19	0.42
1:1E:169:VAL:HG21	1:1E:204:ASN:OD1	2.19	0.42
2:1F:35:GLN:HA	2:1F:35:GLN:OE1	2.19	0.42
2:1H:170:THR:OG1	2:1H:203:MET:SD	2.77	0.42
2:1H:213:CYS:HA	2:1H:217:LEU:CD1	2.50	0.42
1:1K:112:LEU:O	1:1K:115:SER:OG	2.33	0.42
1:1K:190:HIS:CD2	1:1K:411:ALA:HA	2.54	0.42
1:1M:220:PRO:HA	1:1M:224:ASP:OD2	2.18	0.42
2:1N:156:ARG:HA	2:1N:159:VAL:HG12	2.02	0.42
1:1Q:21:TRP:CZ3	1:1Q:61:PRO:HB3	2.54	0.42
1:1Q:67:ASP:CG	1:1Q:68:LEU:H	2.22	0.42
1:1Q:175:VAL:HG12	2:1R:329:ASN:ND2	2.33	0.42
2:1R:231:ILE:HD13	2:1R:231:ILE:HA	1.84	0.42
1:1S:212:PHE:CZ	2:1T:326:LYS:HD3	2.54	0.42
1:1U:414:ASN:HA	1:1U:417:ASP:OD2	2.20	0.42
1:1W:53:GLU:HA	1:1W:53:GLU:OE2	2.19	0.42
1:1W:123:GLU:O	1:1W:126:SER:OG	2.37	0.42
1:1W:403:MET:HE3	1:1W:403:MET:HB2	1.91	0.42
2:1X:73:THR:OG1	2:1X:74:VAL:N	2.52	0.42
2:1Z:217:LEU:HD12	2:1Z:277:SER:OG	2.20	0.42
1:2A:327:ASP:N	1:2A:327:ASP:OD2	2.47	0.42
2:2B:175:PRO:HG2	2:2B:176:GLN:OE1	2.20	0.42
1:2E:68:LEU:HD12	1:2E:143:THR:HG22	2.00	0.42
2:2F:205:ASP:OD1	2:2F:206:ASN:N	2.51	0.42
1:2G:86:ARG:HG2	1:2G:88:ASP:H	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2H:11:GLN:HB3	41:2I:501:GTP:PA	2.60	0.42
1:2I:60:VAL:O	1:2I:60:VAL:HG23	2.19	0.42
1:2K:167:PHE:HE1	1:2K:200:MET:HG3	1.84	0.42
1:2M:94:GLN:NE2	38:8D:116:GLN:HB3	2.33	0.42
1:2M:173:PRO:HA	1:2M:176:SER:OG	2.20	0.42
2:2N:68:LEU:HD22	2:2N:149:LEU:HD11	2.01	0.42
2:2N:121:ARG:HD2	2:2N:121:ARG:HA	1.68	0.42
2:2P:187:SER:O	2:2P:191:THR:HG23	2.20	0.42
2:2T:221:ARG:HB3	1:2U:322:SER:HB2	2.01	0.42
2:2V:154:LEU:HA	2:2V:154:LEU:HD23	1.74	0.42
1:2W:167:PHE:CZ	1:2W:233:MET:HG2	2.53	0.42
1:2Y:67:ASP:OD2	1:2Y:72:THR:OG1	2.37	0.42
1:2Y:193:VAL:HG12	1:2Y:265:PHE:CZ	2.54	0.42
2:2Z:325:PRO:HA	2:2Z:328:VAL:HG12	2.00	0.42
2:2Z:398:MET:HG3	1:3A:346:PRO:HD2	2.00	0.42
1:3C:137:HIS:ND1	1:3C:138:SER:O	2.42	0.42
2:3H:240:ALA:HB1	2:3H:356:ASN:HD22	1.84	0.42
1:3K:209:ASP:OD1	1:3K:210:ILE:N	2.52	0.42
1:3M:390:ARG:HE	1:3M:390:ARG:HB2	1.70	0.42
1:3O:285:THR:HG22	1:3O:288:GLU:HB2	2.01	0.42
1:3O:414:ASN:HA	1:3O:417:ASP:OD2	2.20	0.42
2:3T:107:HIS:O	2:3T:152:LEU:HD22	2.19	0.42
2:3T:236:SER:O	2:3T:243:ARG:NH2	2.49	0.42
3:3X:9:LEU:HD22	3:3X:173:ARG:HH11	1.84	0.42
3:4F:9:LEU:HD22	3:4F:173:ARG:HH11	1.84	0.42
3:4J:225:VAL:HG11	3:4J:281:PHE:CE1	2.55	0.42
6:4O:302:ARG:NH1	6:4O:305:ILE:HD13	2.34	0.42
6:4P:72:LYS:HD2	32:7P:88:LEU:HD22	2.01	0.42
9:4Z:339:ALA:O	9:4Z:342:LYS:HG2	2.20	0.42
11:5E:161:ARG:HA	11:5E:161:ARG:HD2	1.80	0.42
12:5G:274:ARG:HB2	12:5G:323:TYR:CZ	2.55	0.42
14:5N:492:SER:HB3	14:5N:508:PHE:CD1	2.54	0.42
15:5P:20:ILE:HG13	19:6E:104:TYR:CD1	2.54	0.42
20:6F:56:GLU:CG	20:6F:296:LYS:HD3	2.49	0.42
24:6T:613:LYS:O	24:6T:617:ASP:CB	2.64	0.42
24:6X:514:TYR:C	24:6X:517:LEU:HD13	2.32	0.42
24:6Y:24:ASP:N	24:6Y:24:ASP:OD1	2.52	0.42
25:7C:106:LEU:HD23	25:7C:106:LEU:HA	1.90	0.42
26:7D:116:GLN:HG2	26:7D:123:TYR:CZ	2.54	0.42
26:7E:116:GLN:HG2	26:7E:123:TYR:CZ	2.54	0.42
28:7H:415:THR:O	28:7H:418:SER:OG	2.36	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:7Y:94:ARG:NH2	37:7Y:108:PRO:O	2.53	0.42
37:7Y:158:TYR:CZ	37:7Y:162:LEU:HD12	2.54	0.42
1:3:423:GLN:HE22	3:3X:107:ALA:C	2.22	0.42
2:6:434:GLU:OE2	4:4A:100:ARG:NE	2.48	0.42
2:8:364:PRO:HB2	26:7E:53:TYR:HD1	1.83	0.42
1:9:42:LEU:HD21	26:7E:121:LYS:NZ	2.34	0.42
1:C6:276:ARG:HD3	24:6U:341:LYS:HE3	2.00	0.42
2:F1:81:GLY:HA3	22:6O:116:TYR:HE2	1.85	0.42
1:G2:219:THR:OG1	1:G2:219:THR:O	2.38	0.42
1:G2:262:ARG:NH2	1:G2:417:ASP:OD1	2.53	0.42
1:G4:198:GLU:HA	1:G4:264:HIS:HB2	2.02	0.42
1:G4:344:TRP:CE3	1:G4:345:ILE:HG13	2.55	0.42
1:G4:379:LYS:HA	1:G4:382:SER:OG	2.18	0.42
1:G6:55:THR:H	1:G6:58:ARG:HB3	1.84	0.42
2:G7:12:ALA:HB2	41:G7:501:GTP:C8	2.54	0.42
1:G8:80:PRO:HB2	1:G8:81:TYR:CD1	2.54	0.42
2:G9:24:TYR:HA	2:G9:27:GLU:OE1	2.19	0.42
2:G9:178:SER:OG	2:G9:183:GLU:OE2	2.22	0.42
2:G9:279:GLU:HG2	2:G9:280:LYS:N	2.34	0.42
2:H1:76:ASP:O	2:H1:80:THR:HG23	2.19	0.42
2:H3:74:VAL:O	2:H3:78:VAL:HG23	2.19	0.42
1:H4:26:ASP:O	1:H4:359:LYS:NZ	2.24	0.42
1:H4:207:LEU:HB3	1:H4:225:LEU:HD22	2.02	0.42
1:H4:418:LEU:O	1:H4:421:GLU:HG2	2.19	0.42
2:H5:388:PHE:HD1	2:H5:391:LEU:HD21	1.85	0.42
1:H6:391:ARG:O	2:H7:262:TYR:OH	2.37	0.42
1:H8:139:LEU:HG	1:H8:168:SER:HB3	2.01	0.42
2:H9:108:TYR:HB2	2:H9:411:GLU:OE2	2.18	0.42
1:I0:128:ASP:OD1	1:I0:128:ASP:N	2.52	0.42
2:I1:55:GLU:HG2	2:I1:61:HIS:CE1	2.54	0.42
2:I1:88:HIS:HB3	2:I1:91:GLN:CD	2.40	0.42
2:I3:74:VAL:O	2:I3:78:VAL:HG23	2.19	0.42
1:I4:240:LEU:HD21	1:I4:249:ASP:HB2	2.01	0.42
2:I7:8:HIS:CD2	2:I7:138:PHE:HD2	2.37	0.42
2:I9:317:LEU:HB3	2:I9:319:TYR:HE1	1.84	0.42
2:J1:119:LEU:O	2:J1:122:ILE:HG22	2.20	0.42
1:J2:87:PRO:HB2	16:5Q:184:GLU:HB3	2.01	0.42
1:J2:289:LEU:HD21	1:J2:363:MET:HG2	2.01	0.42
2:J3:217:LEU:HB3	2:J3:219:ILE:HD12	2.02	0.42
2:J7:286:LEU:HD23	2:J7:286:LEU:HA	1.91	0.42
1:J8:2:ARG:HB3	1:J8:131:GLN:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K0:415:MET:O	1:K0:418:LEU:HG	2.19	0.42
2:K1:404:PHE:CE1	2:K1:408:TYR:HE2	2.37	0.42
2:K5:90:GLU:O	2:K5:121:ARG:NH1	2.50	0.42
2:K7:101:ASN:CG	1:K8:252:LYS:HZ2	2.22	0.42
1:K8:167:PHE:CE2	1:K8:233:MET:HG2	2.55	0.42
2:K9:428:LEU:HG	2:K9:432:PHE:CE2	2.54	0.42
1:L0:135:VAL:HG21	1:L0:152:ILE:HD11	2.02	0.42
2:L1:280:LYS:HA	2:L1:283:HIS:HB3	2.01	0.42
2:L9:267:PHE:HB2	2:L9:384:ILE:HD12	2.01	0.42
2:L9:405:VAL:HG13	2:L9:418:PHE:HE2	1.84	0.42
1:M2:174:LYS:HE2	1:M2:174:LYS:HB3	1.82	0.42
2:M3:88:HIS:O	1:O0:281:TYR:OH	2.27	0.42
2:N3:205:ASP:O	2:N3:209:ILE:HD12	2.18	0.42
2:N3:208:ALA:CA	2:N3:304:LYS:HE3	2.49	0.42
2:N5:3:GLU:HG3	2:N5:51:THR:HA	2.01	0.42
2:N5:88:HIS:CE1	2:N5:121:ARG:HH22	2.38	0.42
1:N8:179:VAL:HB	2:N9:258:ASN:HD22	1.84	0.42
2:N9:70:LEU:HB3	2:N9:97:GLU:O	2.19	0.42
2:N9:176:GLN:HG2	2:N9:207:GLU:OE1	2.19	0.42
2:O1:322:ASP:OD1	2:O1:322:ASP:N	2.49	0.42
2:O3:5:ILE:HD11	2:O3:135:PHE:CE1	2.54	0.42
2:O3:119:LEU:HA	2:O3:122:ILE:HG22	2.01	0.42
1:O4:35:THR:HG1	1:O4:37:HIS:HE2	1.63	0.42
1:O4:208:TYR:HB3	2:O5:326:LYS:NZ	2.34	0.42
2:O7:26:LEU:HD12	2:O7:363:VAL:HG22	2.01	0.42
2:O7:364:PRO:HD3	32:7P:78:TYR:CE2	2.54	0.42
2:P3:255:PHE:O	2:P3:259:LEU:N	2.47	0.42
1:P4:40:SER:OG	1:P4:43:GLN:HG3	2.19	0.42
1:P4:114:ASP:OD2	1:P4:115:SER:N	2.52	0.42
1:P6:238:CYS:SG	1:P6:239:CYS:N	2.93	0.42
2:P7:129:CYS:SG	2:P7:130:THR:N	2.91	0.42
2:P9:39:ASP:OD1	2:P9:40:LYS:N	2.52	0.42
1:Q2:8:GLN:CD	1:Q2:17:GLY:HA3	2.39	0.42
2:Q5:346:TRP:CD1	2:Q5:346:TRP:N	2.86	0.42
2:Q9:72:PRO:HD2	1:R0:2:ARG:HH12	1.85	0.42
2:Q9:286:LEU:HD22	2:Q9:371:VAL:HG13	2.01	0.42
1:R0:289:LEU:HD13	1:R0:363:MET:HE2	2.00	0.42
1:R0:320:ARG:NH1	12:7B:72:ALA:O	2.46	0.42
2:R1:72:PRO:HD2	1:R2:2:ARG:NH1	2.34	0.42
2:R1:345:ASP:OD1	2:R1:345:ASP:N	2.53	0.42
1:R4:311:LEU:HA	1:R4:311:LEU:HD23	1.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R5:42:ILE:HG13	2:R5:43:GLY:N	2.34	0.42
2:R7:21:TRP:CZ3	2:R7:63:PRO:HB3	2.55	0.42
2:R7:102:ASN:HB3	2:R7:105:ARG:HB3	2.00	0.42
2:S1:27:GLU:HG3	2:S1:361:THR:HG21	2.01	0.42
2:S1:125:LEU:HD23	2:S1:125:LEU:HA	1.90	0.42
1:S4:285:THR:OG1	1:S4:287:PRO:HD2	2.18	0.42
1:T2:253:LEU:HA	1:T2:253:LEU:HD23	1.79	0.42
2:T3:21:TRP:CZ2	2:T3:65:CYS:HB3	2.55	0.42
2:T7:109:THR:HG23	2:T7:411:GLU:OE2	2.18	0.42
2:T7:279:GLU:OE1	2:T7:279:GLU:CA	2.62	0.42
2:U1:369:ALA:O	2:U1:371:VAL:HG23	2.19	0.42
2:U3:326:LYS:HG3	2:U3:327:ASP:N	2.34	0.42
1:U6:397:TRP:CH2	2:U7:256:GLN:HB3	2.55	0.42
1:V2:77:ARG:HE	1:V2:90:PHE:HE2	1.68	0.42
1:V4:39:ASP:OD1	1:V4:39:ASP:N	2.48	0.42
1:V4:123:GLU:O	1:V4:126:SER:OG	2.37	0.42
1:V4:212:PHE:CE1	1:V4:220:PRO:HG3	2.54	0.42
1:V8:21:TRP:CZ3	1:V8:61:PRO:HB3	2.55	0.42
2:V9:30:ILE:HD12	2:V9:53:PHE:CD2	2.53	0.42
2:V9:222:PRO:HD2	1:W0:324:LYS:HE3	2.01	0.42
2:V9:402:ARG:HD3	2:V9:402:ARG:HA	1.90	0.42
2:W1:212:ILE:HG23	2:W1:275:ILE:HD12	2.00	0.42
1:W2:380:ARG:O	1:W2:383:GLU:HG3	2.18	0.42
2:W5:169:PHE:HZ	2:W5:238:LEU:HD23	1.84	0.42
1:W6:192:LEU:HD23	1:W6:192:LEU:HA	1.83	0.42
2:W7:91:GLN:HE21	2:W7:125:LEU:HD21	1.83	0.42
1:W8:246:LEU:HD22	1:W8:352:SER:HA	2.01	0.42
2:W9:301:MET:HE1	2:W9:307:PRO:HD3	2.00	0.42
1:X2:183:TYR:O	1:X2:187:LEU:HD13	2.19	0.42
2:X3:34:GLY:HA3	2:X3:60:LYS:NZ	2.34	0.42
1:X4:68:LEU:HD23	1:X4:68:LEU:HA	1.82	0.42
2:X5:322:ASP:OD1	2:X5:322:ASP:N	2.52	0.42
1:X6:276:ARG:HB3	8:4W:187:HIS:CE1	2.54	0.42
1:X8:178:THR:OG1	2:X9:258:ASN:OD1	2.37	0.42
2:X9:9:ILE:HD13	2:X9:150:GLY:HA2	2.00	0.42
1:Y0:361:LEU:HA	8:4W:292:MET:HE2	2.01	0.42
2:Y3:98:ASP:OD2	2:Y3:99:ALA:N	2.52	0.42
1:Y6:275:SER:O	1:Y6:279:GLN:HG3	2.19	0.42
1:Y8:172:SER:HB3	1:Y8:203:ASP:OD2	2.20	0.42
1:Y8:179:VAL:HB	2:Y9:258:ASN:HD22	1.85	0.42
1:Z0:164:MET:HE3	1:Z0:164:MET:HB3	1.81	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z0:235:GLY:HA3	1:Z0:366:THR:HG21	2.00	0.42
1:Z0:287:PRO:HA	1:Z0:290:THR:HG22	2.00	0.42
2:Z1:280:LYS:HA	2:Z1:283:HIS:HB3	2.00	0.42
2:Z1:338:LYS:HA	2:Z1:338:LYS:HD2	1.77	0.42
2:Z3:268:MET:SD	2:Z3:380:ASN:HB2	2.59	0.42
2:Z5:7:ILE:HD11	2:Z5:137:VAL:HG12	2.01	0.42
1:Z6:350:LYS:NZ	1:Z6:352:SER:HB3	2.35	0.42
2:Z9:24:TYR:O	2:Z9:27:GLU:HG2	2.18	0.42
1:0A:117:LEU:HD23	1:0A:117:LEU:HA	1.86	0.42
2:0B:252:ILE:HD12	2:0B:252:ILE:H	1.85	0.42
1:0E:237:THR:HG23	1:0E:241:ARG:HH21	1.85	0.42
1:0G:52:ASN:OD1	1:0G:62:ARG:NH2	2.51	0.42
1:0G:391:ARG:HD3	2:0H:346:TRP:NE1	2.34	0.42
2:0H:332:VAL:HA	2:0H:335:ILE:HG22	2.01	0.42
2:0H:338:LYS:HA	2:0H:338:LYS:HD2	1.78	0.42
1:0I:121:ARG:NH2	1:0I:158:GLU:OE2	2.52	0.42
1:0M:116:VAL:HG23	1:0M:151:LEU:HD11	2.02	0.42
1:0O:156:ARG:HD2	1:0O:156:ARG:HA	1.83	0.42
2:0P:31:GLN:HB2	2:0P:33:ASP:OD1	2.19	0.42
2:0P:65:CYS:SG	2:0P:66:ILE:N	2.92	0.42
2:0P:397:LEU:HD23	2:0P:397:LEU:HA	1.93	0.42
1:0U:104:GLY:HA2	1:0U:147:MET:CE	2.49	0.42
1:0U:125:GLU:OE1	1:1K:291:GLN:NE2	2.52	0.42
2:0V:88:HIS:CG	2:1L:283:HIS:HB3	2.54	0.42
2:0V:104:ALA:HB1	2:0V:411:GLU:CD	2.39	0.42
1:0W:140:GLY:O	1:0W:184:ASN:ND2	2.52	0.42
1:0Y:315:ALA:HB1	1:0Y:317:PHE:CE1	2.54	0.42
2:0Z:307:PRO:HB2	2:0Z:312:TYR:HE1	1.85	0.42
2:1D:14:ILE:HD11	2:1D:74:VAL:HG13	2.01	0.42
1:1E:31:ASP:OD2	1:1E:33:THR:OG1	2.22	0.42
1:1E:69:GLU:C	1:1E:92:PHE:HZ	2.23	0.42
1:1K:58:ARG:HA	1:1K:58:ARG:HD2	1.84	0.42
2:1L:227:LEU:O	2:1L:231:ILE:HG12	2.20	0.42
1:1M:39:ASP:OD1	1:1M:40:SER:N	2.53	0.42
1:1M:295:ASP:HB3	1:1M:297:LYS:HG3	2.02	0.42
1:1Q:69:GLU:OE2	1:1Q:70:PRO:HD2	2.19	0.42
2:1R:21:TRP:CZ2	2:1R:65:CYS:HB3	2.53	0.42
2:1R:36:MET:HG3	2:1R:61:HIS:NE2	2.33	0.42
2:1T:179:THR:O	1:1U:350:LYS:HD2	2.19	0.42
2:1V:79:ARG:NE	2:1V:92:LEU:HD12	2.26	0.42
2:1V:329:ASN:HA	2:1V:332:VAL:HG12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1Z:70:LEU:HB3	2:1Z:97:GLU:O	2.18	0.42
2:1Z:195:LEU:HD21	2:1Z:264:ARG:CD	2.47	0.42
2:2B:161:TYR:HE1	38:8A:80:TYR:CB	2.32	0.42
1:2C:396:HIS:HE1	1:2C:397:TRP:CZ2	2.36	0.42
2:2D:96:LYS:HG2	1:2E:1:MET:HE1	2.00	0.42
2:2D:365:GLY:HA2	10:5A:390:GLN:HE22	1.84	0.42
2:2H:282:TYR:CE2	10:5B:164:ASP:OD1	2.72	0.42
2:2H:326:LYS:HG3	2:2H:327:ASP:N	2.35	0.42
1:2I:86:ARG:HG2	1:2I:88:ASP:H	1.85	0.42
1:2I:337:ASN:HB3	1:2I:340:TYR:CD2	2.55	0.42
2:2J:8:HIS:CD2	2:2J:138:PHE:HD2	2.38	0.42
1:2K:114:ASP:OD1	1:2K:115:SER:N	2.53	0.42
1:2K:404:ASP:HB3	1:2K:406:MET:SD	2.60	0.42
2:2L:205:ASP:OD1	2:2L:303:VAL:HG13	2.20	0.42
1:2M:314:SER:HA	1:2M:350:LYS:O	2.20	0.42
1:2Q:320:ARG:NH2	38:8A:198:THR:CA	2.74	0.42
2:2V:215:ARG:HB2	38:8B:66:TYR:CE1	2.52	0.42
1:2W:418:LEU:O	1:2W:421:GLU:HG2	2.19	0.42
2:2X:170:THR:HG22	2:2X:171:VAL:N	2.35	0.42
1:2Y:170:VAL:N	1:2Y:202:LEU:O	2.48	0.42
2:2Z:21:TRP:CZ3	2:2Z:63:PRO:HB3	2.55	0.42
2:2Z:86:LEU:HD23	2:2Z:86:LEU:C	2.39	0.42
1:3A:165:LEU:HD23	1:3A:165:LEU:HA	1.83	0.42
1:3A:274:THR:HG23	1:3A:282:ARG:NH1	2.35	0.42
1:3C:117:LEU:HA	1:3C:120:VAL:HG12	2.00	0.42
1:3G:160:PRO:HG2	1:3G:161:ASP:OD1	2.19	0.42
1:3O:67:ASP:N	1:3O:67:ASP:OD1	2.52	0.42
2:3P:415:GLU:OE1	2:3P:415:GLU:N	2.51	0.42
2:3R:392:ASP:HB2	2:3R:425:LEU:HD22	2.00	0.42
1:3S:6:HIS:CD2	1:3S:134:GLN:HE21	2.38	0.42
3:3Z:9:LEU:HD22	3:3Z:173:ARG:HH11	1.84	0.42
3:3Z:34:SER:OG	3:3Z:35:CYS:N	2.53	0.42
4:4A:27:LYS:HE3	4:4A:27:LYS:HB3	1.94	0.42
3:4D:34:SER:OG	3:4D:35:CYS:N	2.53	0.42
3:4H:34:SER:OG	3:4H:35:CYS:N	2.53	0.42
5:4L:342:ALA:O	5:4L:345:GLU:HG3	2.18	0.42
5:4M:22:LEU:HD12	5:4M:22:LEU:HA	1.79	0.42
7:4R:331:ILE:HD11	12:5F:85:LEU:HD13	2.01	0.42
8:4W:130:VAL:O	8:4W:134:LEU:HG	2.20	0.42
10:5B:303:LYS:HD3	10:5B:303:LYS:HA	1.89	0.42
12:5F:200:ASP:OD1	12:5F:200:ASP:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:5L:174:TRP:CD2	14:5L:185:PRO:HB3	2.53	0.42
14:5L:187:ASP:OD1	14:5L:187:ASP:N	2.46	0.42
14:5L:339:HIS:CE1	14:5L:365:ARG:HD2	2.54	0.42
14:5M:110:ASP:OD1	14:5M:154:LYS:HD3	2.18	0.42
14:5M:155:PHE:HE1	14:5M:162:LYS:HE2	1.84	0.42
14:5M:174:TRP:CD2	14:5M:185:PRO:HB3	2.53	0.42
14:5M:187:ASP:OD1	14:5M:187:ASP:N	2.46	0.42
14:5N:155:PHE:HE1	14:5N:162:LYS:HE2	1.84	0.42
15:5O:34:GLU:CG	15:5O:49:ARG:CD	2.84	0.42
15:5O:172:TRP:O	15:5O:176:ILE:HG12	2.20	0.42
15:5O:327:ALA:O	15:5O:342:SER:OG	2.35	0.42
16:5Q:43:THR:HA	16:5Q:61:ILE:HG22	2.00	0.42
16:5Q:101:ASP:OD1	16:5Q:102:GLU:N	2.51	0.42
17:5V:225:ASP:O	17:5V:229:LEU:HG	2.18	0.42
20:6F:361:LEU:CG	20:6F:362:PRO:HD2	2.49	0.42
23:6R:30:GLU:HA	23:6R:53:ARG:NH1	2.34	0.42
24:6U:103:LYS:HG2	24:6U:116:ILE:HG12	2.02	0.42
24:6U:152:ARG:HD3	24:6U:160:PHE:CG	2.54	0.42
24:6Y:299:GLU:HG3	24:6Y:300:ASP:CG	2.40	0.42
30:7K:63:PRO:HG2	30:7K:65:LYS:NZ	2.34	0.42
30:7K:296:THR:O	30:7K:296:THR:OG1	2.37	0.42
34:7R:273:LEU:HD23	35:7T:227:TRP:HD1	1.84	0.42
28:7X:415:THR:O	28:7X:418:SER:OG	2.36	0.42
37:7Y:134:PRO:HG2	37:7Y:137:LEU:HD12	2.01	0.42
38:8C:43:HIS:HD2	38:8C:47:PHE:HB2	1.85	0.42
38:8C:229:ASN:HB3	38:8C:232:PHE:CE2	2.54	0.42
38:8D:223:THR:HG23	38:8D:224:PHE:HD2	1.84	0.42
1:5:55:THR:HG22	24:6V:107:VAL:HG21	2.01	0.42
1:A3:41:ASP:H	26:7F:122:VAL:HB	1.85	0.42
1:B1:362:LYS:HE2	18:5Y:94:PHE:CZ	2.54	0.42
1:B8:276:ARG:NH2	24:6Y:210:VAL:HG21	2.34	0.42
2:E3:18:ASN:ND2	22:6K:116:TYR:HE1	2.17	0.42
1:E6:33:THR:CG2	22:6L:262:TYR:HB2	2.45	0.42
1:G2:152:ILE:HG22	1:G2:195:ASN:HB3	2.01	0.42
2:G3:175:PRO:HG2	2:G3:176:GLN:OE1	2.19	0.42
1:G6:253:LEU:HD21	1:G6:316:LEU:HD11	2.02	0.42
1:G8:8:GLN:NE2	1:G8:17:GLY:HA3	2.34	0.42
1:G8:213:ARG:O	1:G8:216:LYS:HG3	2.20	0.42
2:H1:291:ILE:HA	2:H1:294:ALA:HB3	2.02	0.42
1:H4:199:CYS:HB2	1:H4:265:PHE:CD1	2.54	0.42
1:H6:46:ARG:HA	1:H6:46:ARG:HD3	1.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H7:139:ASN:OD1	2:H7:170:THR:HG22	2.19	0.42
1:H8:289:LEU:HD21	1:H8:363:MET:HG2	2.00	0.42
2:H9:88:HIS:HA	2:H9:89:PRO:HD3	1.87	0.42
1:I0:257:LEU:HD21	1:I0:314:SER:HB2	1.99	0.42
1:I0:289:LEU:O	1:I0:293:MET:HG3	2.19	0.42
2:I1:8:HIS:HB2	2:I1:14:ILE:HG22	2.02	0.42
2:I1:66:ILE:O	2:I1:66:ILE:HG13	2.20	0.42
2:J1:415:GLU:N	2:J1:415:GLU:OE2	2.52	0.42
1:J2:69:GLU:C	1:J2:92:PHE:HZ	2.23	0.42
1:J4:113:ILE:HA	1:J4:116:VAL:HG12	2.02	0.42
1:J6:194:GLU:N	1:J6:194:GLU:OE1	2.53	0.42
2:J7:179:THR:O	1:J8:350:LYS:HD2	2.19	0.42
2:J7:398:MET:HG3	1:J8:346:PRO:HD2	2.01	0.42
2:J9:149:LEU:HA	2:J9:152:LEU:HB3	2.02	0.42
2:J9:252:ILE:HD12	2:J9:252:ILE:HA	1.92	0.42
1:K0:17:GLY:HA2	1:K0:20:PHE:HB3	2.00	0.42
1:K0:208:TYR:OH	2:K1:325:PRO:HB2	2.20	0.42
1:K0:233:MET:O	1:K0:237:THR:HG22	2.19	0.42
1:K8:309:ARG:H	1:K8:372:THR:HG22	1.84	0.42
2:L3:14:ILE:HD11	2:L3:74:VAL:CG1	2.49	0.42
2:L3:392:ASP:OD2	2:L3:422:ARG:NH1	2.52	0.42
2:L5:213:CYS:HA	2:L5:217:LEU:HB2	2.01	0.42
1:L6:379:LYS:HA	1:L6:382:SER:OG	2.19	0.42
2:L7:66:ILE:HD12	2:L7:68:LEU:HD23	2.00	0.42
1:M0:414:ASN:HA	1:M0:417:ASP:OD2	2.19	0.42
2:M1:391:LEU:HD23	2:M1:391:LEU:HA	1.88	0.42
1:M2:314:SER:HA	1:M2:350:LYS:O	2.20	0.42
2:M3:223:THR:OG1	2:M3:224:TYR:N	2.52	0.42
2:M3:241:SER:OG	2:M3:250:VAL:O	2.36	0.42
2:M3:271:SER:OG	2:M3:377:MET:HB3	2.20	0.42
1:M6:271:THR:OG1	1:M6:272:PRO:HA	2.20	0.42
2:M7:90:GLU:HB3	1:O4:281:TYR:HE2	1.81	0.42
2:M7:90:GLU:CB	1:O4:281:TYR:HE2	2.33	0.42
1:M8:56:GLY:H	19:6E:14:GLN:HE21	1.67	0.42
1:M8:327:ASP:OD2	1:M8:328:GLU:N	2.52	0.42
2:N1:9:ILE:HD13	2:N1:150:GLY:HA2	2.01	0.42
2:N7:346:TRP:CZ3	2:N7:435:VAL:HG13	2.54	0.42
2:N9:109:THR:OG1	2:N9:110:ILE:HD12	2.19	0.42
2:O3:108:TYR:O	2:O3:112:LYS:HG2	2.19	0.42
2:O3:138:PHE:HE1	2:O3:169:PHE:CD2	2.37	0.42
2:O3:296:PHE:HE1	2:O3:377:MET:HG3	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O4:403:MET:HE3	1:O4:403:MET:HB2	1.87	0.42
2:O5:12:ALA:HB2	41:O6:501:GTP:C8	2.55	0.42
2:O5:79:ARG:O	2:O5:84:ARG:HG2	2.19	0.42
2:O5:171:VAL:HA	2:O5:204:LEU:O	2.19	0.42
2:O5:387:ILE:HG12	2:O5:390:ARG:HH22	1.85	0.42
1:P4:74:ASP:OD2	27:7G:188:GLY:N	2.50	0.42
1:P4:397:TRP:CZ2	2:P5:256:GLN:HB3	2.55	0.42
2:P5:68:LEU:HA	2:P5:93:ILE:O	2.18	0.42
1:P8:95:THR:HG23	1:P8:96:GLY:N	2.34	0.42
1:P8:175:VAL:HG22	2:P9:329:ASN:ND2	2.34	0.42
2:P9:114:ILE:HG21	2:P9:149:LEU:HD22	2.02	0.42
2:P9:174:SER:HA	2:P9:205:ASP:OD1	2.20	0.42
2:P9:276:ILE:HG23	2:P9:280:LYS:HB2	2.01	0.42
2:Q1:153:LEU:HD12	2:Q1:153:LEU:HA	1.82	0.42
1:Q2:117:LEU:HA	1:Q2:120:VAL:HG12	2.02	0.42
1:Q2:249:ASP:OD1	1:Q2:252:LYS:N	2.48	0.42
2:Q3:265:ILE:CD1	2:Q3:435:VAL:HG21	2.49	0.42
2:Q5:11:GLN:O	2:Q5:15:GLN:HG3	2.18	0.42
1:Q8:345:ILE:HD12	1:Q8:346:PRO:HD2	2.02	0.42
2:Q9:145:THR:OG1	41:R0:501:GTP:O1B	2.36	0.42
1:R2:65:LEU:HB2	1:R2:90:PHE:HD1	1.84	0.42
2:S1:405:VAL:O	2:S1:409:VAL:HG23	2.20	0.42
1:S2:54:ALA:N	1:S2:58:ARG:O	2.43	0.42
1:S4:167:PHE:CZ	1:S4:233:MET:HG2	2.55	0.42
1:S6:101:TRP:CE3	1:S6:187:LEU:HD23	2.55	0.42
1:S6:309:ARG:H	1:S6:372:THR:CG2	2.32	0.42
2:S7:294:ALA:O	2:S7:297:GLU:HG2	2.19	0.42
1:S8:239:CYS:SG	1:S8:247:ASN:HA	2.59	0.42
2:S9:407:TRP:HZ2	1:T0:258:ILE:HB	1.84	0.42
2:T1:71:GLU:HG3	2:T1:73:THR:HG22	2.00	0.42
2:T1:216:SER:HB3	2:T1:275:ILE:O	2.19	0.42
1:T2:292:GLN:HG2	1:T2:298:ASN:ND2	2.32	0.42
1:T6:192:LEU:HD23	1:T6:192:LEU:HA	1.85	0.42
1:T6:207:LEU:HB3	1:T6:225:LEU:HD22	2.01	0.42
2:U1:53:PHE:HD1	2:U1:63:PRO:HA	1.84	0.42
2:U1:325:PRO:HA	2:U1:328:VAL:HG12	2.01	0.42
1:U2:178:THR:CG2	1:U2:181:GLU:HG3	2.49	0.42
1:U2:271:THR:HG22	1:U2:289:LEU:HD22	2.00	0.42
2:V3:250:VAL:HG13	2:V3:254:GLU:HB2	2.02	0.42
2:V7:344:VAL:HG11	2:V7:346:TRP:CE2	2.55	0.42
1:V8:273:LEU:H	1:V8:292:GLN:NE2	2.14	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V9:36:MET:HA	2:V9:37:PRO:HD3	1.91	0.42
2:V9:274:PRO:HG2	2:V9:371:VAL:HG11	2.01	0.42
2:W1:60:LYS:HB2	2:X7:282:TYR:CE1	2.54	0.42
1:W4:3:GLU:HB2	1:W4:130:LEU:HA	2.00	0.42
2:W9:47:ASP:N	2:W9:47:ASP:OD1	2.52	0.42
2:W9:234:VAL:HG13	2:W9:376:CYS:SG	2.59	0.42
1:X0:95:THR:HG23	1:X0:96:GLY:N	2.35	0.42
1:X4:203:ASP:OD2	1:X4:302:ALA:N	2.53	0.42
2:X5:132:LEU:HD22	2:X5:164:LYS:HD3	2.00	0.42
2:X7:216:SER:OG	2:X7:217:LEU:N	2.51	0.42
2:X9:52:PHE:CE2	2:X9:243:ARG:HD3	2.55	0.42
2:X9:133:GLN:HB3	2:X9:252:ILE:HG21	2.01	0.42
1:Y0:3:GLU:HG3	1:Y0:127:CYS:SG	2.60	0.42
1:Y0:396:HIS:HE1	1:Y0:397:TRP:CE2	2.38	0.42
1:Y4:276:ARG:HD3	8:4W:405:GLU:CD	2.39	0.42
2:Y9:147:SER:OG	2:Y9:148:GLY:N	2.52	0.42
1:Z0:257:LEU:HD13	1:Z0:312:THR:HB	2.01	0.42
1:Z4:147:MET:HB2	1:Z4:147:MET:HE2	1.89	0.42
2:Z5:90:GLU:OE2	2:Z5:124:LYS:NZ	2.52	0.42
2:Z5:209:ILE:HG22	2:Z5:227:LEU:HD22	2.02	0.42
2:Z7:34:GLY:HA3	2:Z7:60:LYS:NZ	2.31	0.42
1:Z8:11:GLN:HG2	1:Z8:12:CYS:N	2.34	0.42
1:Z8:174:LYS:HE2	1:Z8:174:LYS:HB3	1.76	0.42
1:Z8:385:PHE:HZ	1:Z8:408:PHE:HD1	1.67	0.42
2:Z9:52:PHE:CE2	2:Z9:243:ARG:HD3	2.55	0.42
1:0A:100:ASN:HB3	1:0A:103:LYS:HB2	2.01	0.42
1:0A:384:GLN:HB3	2:0B:348:PRO:HG3	2.01	0.42
1:0A:412:GLU:O	1:0A:415:MET:HE3	2.20	0.42
1:0C:204:ASN:HD22	39:0C:502:GDP:HN22	1.68	0.42
2:0H:81:GLY:O	2:0H:84:ARG:NH1	2.49	0.42
1:0I:116:VAL:O	1:0I:120:VAL:HG12	2.20	0.42
1:0K:217:LEU:HD23	1:0K:217:LEU:HA	1.90	0.42
2:0L:155:GLU:HB2	2:0L:197:HIS:CE1	2.54	0.42
2:0L:205:ASP:OD2	2:0L:206:ASN:N	2.53	0.42
1:0M:154:LYS:HA	1:0M:154:LYS:HD3	1.87	0.42
2:0N:205:ASP:OD1	2:0N:206:ASN:N	2.53	0.42
2:0P:287:SER:N	2:0P:290:GLU:OE2	2.52	0.42
1:0S:135:VAL:HG22	1:0S:137:HIS:HD2	1.85	0.42
1:0S:327:ASP:O	1:0S:330:MET:HG3	2.20	0.42
1:0U:211:CYS:SG	1:0U:217:LEU:HB3	2.59	0.42
1:0W:208:TYR:HA	1:0W:211:CYS:SG	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0X:74:VAL:O	2:0X:78:VAL:HG23	2.20	0.42
1:0Y:314:SER:HA	1:0Y:350:LYS:O	2.20	0.42
2:1B:9:ILE:HD11	2:1B:153:LEU:HD23	2.01	0.42
1:1E:180:VAL:HG23	1:1E:184:ASN:ND2	2.34	0.42
1:1K:58:ARG:HH11	1:1K:84:ILE:HA	1.84	0.42
1:1K:396:HIS:CD2	2:1L:263:PRO:HD3	2.55	0.42
2:1L:425:LEU:HD23	2:1L:425:LEU:HA	1.93	0.42
1:1O:4:ILE:CD1	1:1O:131:GLN:HB3	2.50	0.42
2:1T:246:GLY:HA2	2:1T:357:TYR:CD2	2.54	0.42
2:1T:420:GLU:O	2:1T:424:ASP:HB2	2.20	0.42
1:1U:248:ALA:CB	1:1U:252:LYS:HD3	2.49	0.42
1:1U:273:LEU:N	1:1U:292:GLN:HE22	2.16	0.42
1:1U:404:ASP:HB3	1:1U:406:MET:SD	2.60	0.42
2:1V:268:MET:HB3	2:1V:378:ILE:HG23	2.00	0.42
2:1X:396:ASP:CG	2:1X:422:ARG:HH21	2.23	0.42
2:1Z:11:GLN:NE2	1:2A:247:ASN:OD1	2.53	0.42
1:2A:165:LEU:CD1	1:2A:250:LEU:HD13	2.49	0.42
2:2B:401:LYS:HE3	2:2B:401:LYS:HB3	1.89	0.42
1:2C:389:PHE:O	1:2C:392:LYS:NZ	2.38	0.42
2:2D:362:VAL:HG21	10:5A:383:GLN:NE2	2.35	0.42
2:2D:413:MET:HB3	2:2D:417:GLU:OE2	2.20	0.42
2:2F:334:THR:HA	2:2F:337:THR:HG22	2.01	0.42
1:2G:263:LEU:HA	1:2G:422:TYR:OH	2.18	0.42
2:2H:101:ASN:ND2	2:2H:143:GLY:HA2	2.34	0.42
1:2K:208:TYR:HA	1:2K:211:CYS:SG	2.59	0.42
2:2N:119:LEU:HD11	2:2N:156:ARG:HD3	2.00	0.42
2:2N:186:ASN:OD1	2:2N:408:TYR:OH	2.38	0.42
1:2Q:320:ARG:CZ	38:8A:198:THR:HG23	2.24	0.42
1:2S:1:MET:HB3	1:2S:2:ARG:H	1.62	0.42
1:2S:391:ARG:NH2	2:2T:434:GLU:O	2.53	0.42
2:2V:90:GLU:O	2:2V:121:ARG:NH1	2.40	0.42
2:2X:115:VAL:HG11	2:2X:152:LEU:HD23	2.02	0.42
2:2X:279:GLU:N	2:2X:279:GLU:CD	2.72	0.42
2:2Z:107:HIS:CD2	2:2Z:152:LEU:HB2	2.55	0.42
2:3D:11:GLN:HB3	41:3D:501:GTP:PA	2.60	0.42
2:3F:56:THR:HG1	3:3V:34:SER:HA	1.83	0.42
1:3G:66:MET:SD	1:3G:147:MET:HG2	2.59	0.42
1:3I:135:VAL:O	1:3I:166:THR:HA	2.19	0.42
1:3I:337:ASN:HB3	1:3I:340:TYR:HD2	1.85	0.42
2:3L:271:SER:OG	2:3L:377:MET:HB3	2.19	0.42
2:3L:391:LEU:HD23	2:3L:391:LEU:HA	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3O:317:PHE:CE2	1:3O:326:VAL:HG13	2.55	0.42
2:3P:127:ASP:OD2	3:4F:134:VAL:HG23	2.19	0.42
2:3P:313:MET:HB2	2:3P:380:ASN:HB3	2.00	0.42
1:3Q:192:LEU:HD23	1:3Q:192:LEU:HA	1.88	0.42
1:3Q:284:LEU:HD23	1:3Q:284:LEU:HA	1.80	0.42
2:3R:53:PHE:HB3	2:3R:61:HIS:HB3	2.01	0.42
3:3V:9:LEU:HD22	3:3V:173:ARG:HH11	1.84	0.42
3:3V:34:SER:OG	3:3V:35:CYS:N	2.53	0.42
3:3X:34:SER:OG	3:3X:35:CYS:N	2.53	0.42
3:4B:34:SER:OG	3:4B:35:CYS:N	2.53	0.42
5:4L:348:ALA:HA	5:4L:351:ASP:OD2	2.20	0.42
6:4O:165:TYR:OH	29:7I:221:PRO:O	2.19	0.42
7:4T:180:TYR:CE1	31:7M:80:PRO:HD3	2.54	0.42
7:4T:199:VAL:O	7:4T:203:THR:HG23	2.19	0.42
10:5A:472:GLN:CB	10:5A:476:ARG:HH21	2.31	0.42
10:5C:257:GLN:O	10:5C:261:LYS:HG2	2.18	0.42
10:5C:292:GLU:HG2	10:5C:295:ARG:NH1	2.35	0.42
10:5C:470:LEU:HD23	10:5C:470:LEU:HA	1.84	0.42
13:5I:61:LEU:HD12	13:5I:67:LYS:HD3	2.00	0.42
13:5J:61:LEU:HD12	13:5J:67:LYS:HD3	2.00	0.42
14:5L:155:PHE:HE1	14:5L:162:LYS:HE2	1.84	0.42
14:5M:253:ILE:HG23	14:5M:265:LEU:HB2	2.01	0.42
14:5N:110:ASP:OD1	14:5N:154:LYS:HD3	2.18	0.42
14:5N:174:TRP:CD2	14:5N:185:PRO:HB3	2.53	0.42
14:5N:339:HIS:CE1	14:5N:365:ARG:HD2	2.54	0.42
15:5O:226:ARG:HH11	15:5O:226:ARG:CB	2.28	0.42
15:5P:9:PHE:CG	15:5P:75:LEU:HD23	2.55	0.42
17:5T:224:ARG:O	17:5T:228:THR:HG23	2.19	0.42
17:5V:199:LEU:HD11	17:5V:211:ARG:HD3	2.01	0.42
20:6F:84:ALA:HB2	20:6F:114:ASN:HA	2.00	0.42
22:6I:307:ARG:HG3	22:6I:326:PHE:CZ	2.54	0.42
22:6J:114:THR:O	22:6J:118:VAL:HG23	2.20	0.42
22:6L:96:LYS:HZ2	22:6L:99:THR:HG23	1.83	0.42
22:6L:150:TYR:HB3	22:6L:228:PHE:HB2	2.00	0.42
22:6M:240:TYR:O	22:6M:244:VAL:HG12	2.19	0.42
22:6O:270:ALA:O	22:6O:273:VAL:HG12	2.20	0.42
24:6U:273:LEU:HA	24:6U:375:THR:HG22	2.00	0.42
24:6V:253:PRO:HB3	24:6V:255:HIS:CE1	2.54	0.42
24:6V:257:LEU:HA	24:6V:257:LEU:HD23	1.78	0.42
24:6W:472:SER:HB2	24:6W:481:LEU:HD21	2.01	0.42
24:6X:119:VAL:HG11	24:6X:179:PHE:HD1	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:6X:293:VAL:CG2	24:6X:306:LEU:HB2	2.50	0.42
24:6X:304:GLU:OE2	24:6X:306:LEU:HG	2.19	0.42
24:6Z:106:VAL:HG12	24:6Z:113:ASN:C	2.40	0.42
24:6Z:124:TYR:HD1	24:6Z:124:TYR:H	1.67	0.42
24:6Z:435:LEU:HA	24:6Z:438:LEU:HB3	2.01	0.42
29:7I:5:GLY:H	29:7I:12:LYS:NZ	2.17	0.42
29:7I:216:LYS:HG3	29:7I:217:TYR:H	1.84	0.42
30:7K:42:ASN:HB3	30:7K:45:ARG:CZ	2.49	0.42
38:8A:86:TYR:CD2	38:8A:104:LYS:HG2	2.49	0.42
38:8B:176:THR:O	38:8B:177:HIS:CD2	2.72	0.42
2:4:30:ILE:N	26:7D:45:MET:CE	2.82	0.42
1:7:55:THR:CG2	24:6W:107:VAL:HG21	2.48	0.42
2:C1:145:THR:OG1	41:C1:501:GTP:O3B	2.36	0.42
1:D0:219:THR:HG22	24:6W:254:SER:HB2	2.02	0.42
2:G1:312:TYR:O	2:G1:344:VAL:HB	2.18	0.42
1:G2:272:PRO:HD3	1:G2:364:SER:HA	2.00	0.42
1:G2:317:PHE:HB3	1:G2:321:MET:SD	2.60	0.42
2:G3:289:ALA:HA	2:G3:331:SER:OG	2.20	0.42
1:G4:37:HIS:CE1	24:6X:458:HIS:CE1	3.07	0.42
2:G5:157:LEU:HD23	2:G5:157:LEU:HA	1.75	0.42
2:G7:181:VAL:HB	1:G8:256:ASN:HD22	1.85	0.42
1:G8:152:ILE:HD13	1:G8:152:ILE:HA	1.90	0.42
1:G8:367:PHE:CZ	1:G8:369:GLY:HA3	2.54	0.42
1:H2:207:LEU:HD23	1:H2:210:ILE:HD11	2.01	0.42
2:H5:35:GLN:HB3	2:H5:59:GLY:O	2.20	0.42
2:H5:137:VAL:HG22	2:H5:168:GLY:HA2	2.02	0.42
2:H7:407:TRP:CD2	1:H8:255:VAL:HG23	2.54	0.42
1:I4:244:GLY:H	1:I4:247:ASN:HD21	1.68	0.42
2:I7:3:GLU:HG3	2:I7:51:THR:HA	2.02	0.42
2:I7:332:VAL:HA	2:I7:335:ILE:HG22	2.01	0.42
1:J0:40:SER:HB3	28:7H:413:TYR:CD1	2.54	0.42
1:J0:152:ILE:HD13	1:J0:152:ILE:HA	1.87	0.42
1:J0:153:SER:O	1:J0:157:GLU:HG2	2.19	0.42
1:J0:192:LEU:HD23	1:J0:192:LEU:HA	1.84	0.42
2:J1:33:ASP:OD2	2:J1:35:GLN:NE2	2.45	0.42
2:J5:116:ASP:OD1	2:J5:117:LEU:N	2.51	0.42
2:J5:370:LYS:HE2	2:J5:370:LYS:HB3	1.93	0.42
2:J7:12:ALA:HB2	41:J8:501:GTP:C8	2.55	0.42
1:J8:95:THR:HG23	1:J8:96:GLY:N	2.33	0.42
1:J8:101:TRP:CE3	1:J8:403:MET:HE1	2.54	0.42
2:J9:29:GLY:HA3	2:J9:40:LYS:NZ	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K0:334:GLN:NE2	1:K0:348:ASN:H	2.17	0.42
2:K1:21:TRP:CZ3	2:K1:63:PRO:HB3	2.55	0.42
2:K1:133:GLN:HE21	2:K1:252:ILE:HG22	1.82	0.42
2:K1:286:LEU:HA	2:K1:286:LEU:HD23	1.79	0.42
2:K3:236:SER:OG	2:K3:243:ARG:NH2	2.53	0.42
1:K6:66:MET:HG3	1:K6:116:VAL:HG11	2.01	0.42
1:K6:219:THR:O	1:K6:219:THR:OG1	2.34	0.42
1:K8:173:PRO:HD2	1:K8:380:ARG:CZ	2.50	0.42
1:K8:334:GLN:HE22	1:K8:348:ASN:H	1.68	0.42
2:L1:125:LEU:HA	2:L1:125:LEU:HD23	1.82	0.42
2:L3:226:ASN:ND2	29:7J:360:GLN:HE22	2.17	0.42
2:L5:31:GLN:HB2	2:L5:33:ASP:OD1	2.20	0.42
2:L5:392:ASP:OD2	2:L5:422:ARG:NH1	2.53	0.42
1:L6:173:PRO:HD2	1:L6:380:ARG:NH2	2.35	0.42
2:L7:3:GLU:HA	2:L7:51:THR:HG23	2.00	0.42
2:L7:90:GLU:OE1	2:L7:121:ARG:NH2	2.53	0.42
2:L7:203:MET:CE	2:L7:267:PHE:HB3	2.50	0.42
1:M0:21:TRP:CZ3	1:M0:61:PRO:HB3	2.54	0.42
1:M4:19:LYS:HZ3	30:7K:159:ARG:HD3	1.84	0.42
1:M4:186:THR:HG22	1:M4:411:ALA:HB1	2.01	0.42
1:M4:324:LYS:O	1:M4:328:GLU:HG3	2.20	0.42
1:M6:95:THR:HG23	1:M6:96:GLY:N	2.34	0.42
1:M8:22:GLU:HG2	1:M8:81:TYR:HB2	2.01	0.42
1:M8:404:ASP:OD1	1:M8:405:GLU:N	2.49	0.42
1:N0:334:GLN:NE2	1:N0:348:ASN:H	2.15	0.42
2:N1:224:TYR:O	2:N1:228:ASN:ND2	2.52	0.42
2:N1:370:LYS:HD3	30:7L:329:ARG:N	2.35	0.42
1:N2:237:THR:O	1:N2:237:THR:HG22	2.19	0.42
2:N3:276:ILE:O	2:N3:368:LEU:HD23	2.19	0.42
2:N9:276:ILE:HD12	2:N9:276:ILE:HA	1.93	0.42
1:O0:203:ASP:O	1:O0:207:LEU:HD23	2.20	0.42
2:O1:189:LEU:HD11	2:O1:418:PHE:HE1	1.85	0.42
1:O2:391:ARG:HH21	1:O2:391:ARG:CB	2.31	0.42
1:O4:190:HIS:HD2	1:O4:414:ASN:HB3	1.84	0.42
1:P8:51:PHE:HB3	1:P8:59:TYR:HB3	2.02	0.42
1:Q2:2:ARG:HE	1:Q2:240:LEU:HD22	1.83	0.42
1:Q2:406:MET:SD	1:Q2:406:MET:N	2.93	0.42
2:Q3:85:GLN:OE1	2:Q3:85:GLN:HA	2.20	0.42
1:Q4:24:VAL:HG11	1:Q4:50:TYR:CD2	2.54	0.42
1:Q4:161:ASP:O	1:Q4:251:ARG:NH2	2.52	0.42
1:Q8:117:LEU:HA	1:Q8:120:VAL:HG12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q8:165:LEU:HD13	1:Q8:167:PHE:CZ	2.55	0.42
1:Q8:326:VAL:O	1:Q8:330:MET:HG3	2.19	0.42
1:R8:228:LEU:O	1:R8:232:VAL:HG23	2.19	0.42
1:R8:301:CYS:SG	1:R8:302:ALA:N	2.93	0.42
1:S0:11:GLN:NE2	2:S1:249:ASN:OD1	2.53	0.42
1:S2:273:LEU:H	1:S2:292:GLN:HE22	1.68	0.42
2:S5:274:PRO:HD3	2:S5:374:ALA:HA	2.01	0.42
1:S6:68:LEU:HB3	1:S6:96:GLY:HA2	2.00	0.42
1:S6:334:GLN:HE22	1:S6:348:ASN:H	1.66	0.42
2:S7:425:LEU:HD12	2:S7:425:LEU:HA	1.83	0.42
2:S9:21:TRP:CZ3	2:S9:63:PRO:HB3	2.54	0.42
1:T4:67:ASP:N	1:T4:67:ASP:OD1	2.52	0.42
1:T4:287:PRO:HA	1:T4:290:THR:HG22	2.01	0.42
1:T4:309:ARG:H	1:T4:372:THR:CG2	2.32	0.42
2:T5:165:SER:HB2	2:T5:256:GLN:NE2	2.35	0.42
2:T5:207:GLU:OE2	17:5U:38:PHE:HB3	2.19	0.42
1:T6:392:LYS:HD3	1:T6:392:LYS:HA	1.63	0.42
1:T8:68:LEU:HB3	1:T8:96:GLY:HA2	2.02	0.42
1:T8:210:ILE:O	1:T8:214:THR:OG1	2.32	0.42
1:U2:192:LEU:HD23	1:U2:192:LEU:HA	1.88	0.42
1:U4:3:GLU:HG3	1:U4:127:CYS:SG	2.60	0.42
1:U6:22:GLU:O	1:U6:25:SER:OG	2.37	0.42
2:U7:286:LEU:HD12	2:U7:286:LEU:HA	1.75	0.42
2:U7:328:VAL:HG11	2:U7:355:ILE:HD11	2.02	0.42
2:U7:396:ASP:OD2	2:U7:422:ARG:NH2	2.52	0.42
2:V1:4:VAL:HG23	2:V1:134:GLY:O	2.18	0.42
1:V2:6:HIS:HD2	1:V2:134:GLN:OE1	2.02	0.42
1:V2:86:ARG:HG2	1:V2:88:ASP:H	1.85	0.42
1:V2:135:VAL:HG21	1:V2:152:ILE:HD11	2.00	0.42
2:V3:88:HIS:HD2	2:V3:90:GLU:H	1.67	0.42
2:V9:8:HIS:HB2	2:V9:67:PHE:HD1	1.84	0.42
2:V9:21:TRP:CH2	2:V9:63:PRO:HB3	2.55	0.42
1:W2:170:VAL:HG22	1:W2:202:LEU:O	2.19	0.42
1:W2:257:LEU:HA	1:W2:312:THR:HG21	2.02	0.42
2:W3:76:ASP:O	2:W3:80:THR:HG23	2.20	0.42
2:W3:147:SER:OG	2:W3:190:SER:HB2	2.19	0.42
2:W5:21:TRP:CZ3	2:W5:63:PRO:HB3	2.55	0.42
2:W5:102:ASN:HB3	2:W5:105:ARG:HB3	2.00	0.42
2:W7:136:LEU:HA	2:W7:167:LEU:O	2.19	0.42
1:W8:356:ILE:HD13	1:W8:356:ILE:HA	1.93	0.42
1:X0:145:SER:OG	1:X0:188:SER:OG	2.24	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X4:95:THR:OG1	1:X4:96:GLY:N	2.53	0.42
2:X7:195:LEU:HA	2:X7:195:LEU:HD23	1.74	0.42
1:X8:3:GLU:HG3	1:X8:127:CYS:SG	2.59	0.42
2:X9:214:ARG:HD2	2:X9:215:ARG:HE	1.85	0.42
2:X9:253:THR:O	2:X9:257:THR:HG23	2.20	0.42
2:Y1:274:PRO:HB2	2:Y1:276:ILE:HG12	2.02	0.42
1:Y2:379:LYS:HG3	1:Y2:419:VAL:HG21	2.01	0.42
2:Y5:31:GLN:HE21	2:Y5:37:PRO:HG3	1.83	0.42
1:Y8:87:PRO:HA	1:Y8:90:PHE:CD2	2.55	0.42
2:Y9:32:PRO:HB3	2:Y9:83:TYR:CE1	2.54	0.42
1:Z0:123:GLU:O	1:Z0:126:SER:OG	2.36	0.42
1:Z0:350:LYS:HZ1	1:Z0:352:SER:HB2	1.83	0.42
1:Z2:130:LEU:HD12	1:Z2:130:LEU:H	1.84	0.42
1:Z4:100:ASN:ND2	1:Z4:103:LYS:HG3	2.34	0.42
1:Z6:232:VAL:HG11	1:Z6:268:VAL:HG11	2.01	0.42
2:Z7:108:TYR:O	2:Z7:112:LYS:NZ	2.29	0.42
2:Z7:334:THR:HA	2:Z7:337:THR:HG22	2.02	0.42
2:Z7:345:ASP:OD2	2:Z7:346:TRP:N	2.53	0.42
1:0A:101:TRP:CZ3	1:0A:187:LEU:HD23	2.55	0.42
2:0B:50:ASN:O	2:0B:64:ARG:NH2	2.51	0.42
2:0B:312:TYR:HD2	2:0B:343:PHE:HE1	1.68	0.42
1:0C:95:THR:OG1	1:0C:96:GLY:N	2.53	0.42
1:0C:128:ASP:OD1	1:0C:128:ASP:N	2.49	0.42
1:0C:285:THR:OG1	1:0C:287:PRO:HD2	2.20	0.42
1:0E:371:SER:OG	1:0E:372:THR:N	2.53	0.42
2:0F:326:LYS:HG3	2:0F:327:ASP:N	2.34	0.42
1:0G:156:ARG:HD2	1:0G:156:ARG:HA	1.79	0.42
1:0G:334:GLN:HA	1:0G:341:PHE:CE2	2.55	0.42
1:0I:26:ASP:O	1:0I:359:LYS:NZ	2.30	0.42
2:0J:73:THR:OG1	2:0J:74:VAL:N	2.53	0.42
2:0J:349:THR:O	2:0J:349:THR:OG1	2.38	0.42
1:0K:253:LEU:HD11	1:0K:316:LEU:HD11	2.02	0.42
1:0K:321:MET:SD	1:0K:363:MET:HG3	2.60	0.42
2:0L:183:GLU:HG2	2:0L:184:PRO:HD3	2.01	0.42
1:0M:60:VAL:HG11	1:1C:281:TYR:HB3	2.02	0.42
2:0N:176:GLN:HE22	2:0N:304:LYS:HE2	1.85	0.42
2:0P:200:VAL:HG13	2:0P:268:MET:CE	2.50	0.42
1:0S:182:PRO:CG	1:0S:384:GLN:HE21	2.32	0.42
1:0W:382:SER:HB3	1:0W:415:MET:HG2	2.01	0.42
1:0Y:70:PRO:N	1:0Y:92:PHE:HZ	2.18	0.42
1:0Y:203:ASP:OD1	1:0Y:204:ASN:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0Y:414:ASN:HA	1:0Y:417:ASP:OD2	2.20	0.42
2:0Z:21:TRP:CD1	2:0Z:87:PHE:HZ	2.38	0.42
2:0Z:58:ALA:C	9:4Z:165:ARG:NH2	2.73	0.42
2:0Z:301:MET:HE1	2:0Z:307:PRO:HD3	2.01	0.42
2:1B:257:THR:HG23	2:1B:258:ASN:ND2	2.35	0.42
1:1C:8:GLN:NE2	1:1C:17:GLY:HA3	2.35	0.42
1:1C:384:GLN:HB3	2:1D:348:PRO:HG3	2.01	0.42
2:1F:312:TYR:CE2	2:1F:341:ILE:HG12	2.55	0.42
1:1G:31:ASP:OD1	1:1G:34:GLY:N	2.52	0.42
2:1H:259:LEU:HD21	2:1H:316:CYS:HB2	2.01	0.42
1:1K:175:VAL:HG23	1:1K:175:VAL:O	2.18	0.42
2:1L:66:ILE:HG13	2:1L:66:ILE:O	2.19	0.42
2:1L:331:SER:O	2:1L:334:THR:N	2.52	0.42
2:1N:334:THR:HA	2:1N:337:THR:HG22	2.01	0.42
2:1P:175:PRO:HB3	2:1P:390:ARG:HD2	2.01	0.42
1:1Q:170:VAL:HG22	1:1Q:202:LEU:O	2.19	0.42
2:1R:14:ILE:HD11	2:1R:74:VAL:HG13	2.02	0.42
2:1R:401:LYS:HB2	1:1S:344:TRP:CZ3	2.54	0.42
1:1S:39:ASP:OD1	1:1S:40:SER:N	2.52	0.42
2:1T:236:SER:O	2:1T:243:ARG:NH2	2.53	0.42
2:1V:93:ILE:HD12	2:1V:117:LEU:HG	2.02	0.42
2:1V:203:MET:O	2:1V:204:LEU:HD12	2.20	0.42
1:1W:6:HIS:CE1	1:1W:8:GLN:HG2	2.54	0.42
2:2B:120:ASP:CG	38:8A:73:TRP:CE2	2.93	0.42
2:2B:223:THR:HG23	2:2B:225:THR:H	1.85	0.42
2:2D:12:ALA:HB2	41:2E:501:GTP:C8	2.54	0.42
1:2E:5:VAL:HG12	1:2E:133:PHE:HD1	1.85	0.42
1:2E:114:ASP:OD1	38:8B:93:LYS:HE2	2.20	0.42
2:2H:242:LEU:HD23	2:2H:242:LEU:HA	1.89	0.42
2:2H:282:TYR:CE1	10:5B:163:ARG:CD	3.03	0.42
2:2J:387:ILE:HG12	2:2J:390:ARG:HH22	1.85	0.42
2:2L:217:LEU:HD23	2:2L:217:LEU:HA	1.90	0.42
2:2N:174:SER:OG	2:2N:207:GLU:HB2	2.20	0.42
2:2N:430:LYS:O	2:2N:433:GLU:HG3	2.18	0.42
2:2P:72:PRO:HD2	1:2Q:2:ARG:NH1	2.35	0.42
1:2Q:2:ARG:HE	1:2Q:240:LEU:HD22	1.84	0.42
2:2R:216:SER:HB3	2:2R:275:ILE:O	2.19	0.42
2:2T:4:VAL:HG23	2:2T:134:GLY:O	2.19	0.42
2:2T:66:ILE:O	2:2T:66:ILE:HG13	2.20	0.42
2:2T:189:LEU:HD11	2:2T:418:PHE:HE1	1.84	0.42
1:2U:178:THR:CG2	1:2U:181:GLU:HG3	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2U:263:LEU:HD22	1:2U:422:TYR:CE1	2.52	0.42
1:2Y:156:ARG:HA	1:2Y:156:ARG:HD2	1.80	0.42
1:2Y:212:PHE:CZ	38:8C:117:TRP:HB3	2.54	0.42
1:3A:77:ARG:NH2	38:8D:220:VAL:HG23	2.35	0.42
2:3B:26:LEU:HD22	2:3B:363:VAL:HG12	2.00	0.42
2:3B:40:LYS:HE3	2:3B:40:LYS:HB3	1.84	0.42
1:3C:130:LEU:HA	1:3C:130:LEU:HD23	1.92	0.42
1:3C:392:LYS:HD2	1:3C:395:LEU:HD22	2.02	0.42
2:3D:35:GLN:N	2:3D:35:GLN:OE1	2.53	0.42
1:3G:77:ARG:NH1	1:3G:83:GLN:HA	2.35	0.42
1:3K:271:THR:HG21	1:3K:293:MET:HG3	2.00	0.42
2:3L:128:ASN:HA	3:4B:171:PRO:HB3	2.00	0.42
1:3O:99:ASN:ND2	2:3P:254:GLU:OE1	2.52	0.42
2:3R:325:PRO:HA	2:3R:328:VAL:HG12	2.02	0.42
1:3S:179:VAL:HG13	2:3T:349:THR:O	2.20	0.42
4:3W:21:PRO:HD2	3:3X:258:ASP:OD1	2.19	0.42
3:4F:34:SER:OG	3:4F:35:CYS:N	2.53	0.42
3:4H:9:LEU:HD22	3:4H:173:ARG:HH11	1.84	0.42
7:4Q:324:GLN:HG2	24:6T:22:LEU:H	1.84	0.42
9:4Z:62:GLU:O	9:4Z:66:VAL:HG23	2.19	0.42
9:4Z:204:LEU:O	9:4Z:207:LYS:HG2	2.20	0.42
9:4Z:343:ALA:HA	9:4Z:346:LYS:HE3	2.02	0.42
10:5A:354:LYS:HA	10:5A:357:GLU:OE1	2.19	0.42
13:5H:69:GLU:OE1	13:5H:69:GLU:HA	2.19	0.42
13:5I:69:GLU:OE1	13:5I:69:GLU:HA	2.19	0.42
13:5J:69:GLU:OE1	13:5J:69:GLU:HA	2.19	0.42
14:5L:7:LEU:HB2	14:5L:622:TRP:CZ3	2.55	0.42
14:5L:253:ILE:HG23	14:5L:265:LEU:HB2	2.01	0.42
14:5M:7:LEU:HB2	14:5M:622:TRP:CZ3	2.55	0.42
14:5M:339:HIS:CE1	14:5M:365:ARG:HD2	2.54	0.42
14:5M:507:LEU:HD22	14:5M:537:TRP:CE3	2.55	0.42
14:5N:7:LEU:HB2	14:5N:622:TRP:CZ3	2.55	0.42
14:5N:253:ILE:HG23	14:5N:265:LEU:HB2	2.01	0.42
15:5O:7:TYR:CE2	15:5O:30:PRO:CG	3.02	0.42
15:5P:6:ARG:HG2	15:5P:29:TYR:HE1	1.85	0.42
17:5T:205:SER:O	17:5T:209:LYS:HE2	2.19	0.42
17:5U:188:LYS:O	17:5U:191:SER:OG	2.32	0.42
20:6F:284:GLN:HA	20:6F:284:GLN:OE1	2.20	0.42
21:6H:11:LEU:HD11	21:6H:204:VAL:HG13	2.01	0.42
22:6J:16:LYS:HB2	22:6J:39:GLN:NE2	2.35	0.42
22:6L:261:ASP:O	22:6L:266:LYS:NZ	2.43	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:6N:106:ASP:OD1	22:6N:107:GLU:N	2.52	0.42
24:6T:592:ASP:OD1	24:6T:592:ASP:N	2.51	0.42
24:6Z:569:LYS:O	24:6Z:573:VAL:HG13	2.19	0.42
29:7I:127:ASP:HB2	29:7I:150:ARG:HH22	1.83	0.42
29:7J:305:THR:HG23	29:7J:308:LEU:HD12	2.00	0.42
29:7J:438:VAL:CG2	29:7J:443:LEU:HD21	2.49	0.42
37:7Y:94:ARG:HH12	37:7Y:117:GLN:NE2	2.17	0.42
37:7Y:214:ASP:OD2	37:7Y:229:ALA:CB	2.68	0.42
38:8C:8:GLU:HG2	38:8C:9:ALA:N	2.34	0.42
38:8C:71:HIS:ND1	38:8C:71:HIS:C	2.73	0.42
38:8C:83:ARG:HD3	38:8C:83:ARG:C	2.38	0.42
1:5:44:LEU:HG	18:5Y:84:ARG:HH22	1.84	0.42
1:9:83:GLN:HG3	24:6X:177:ARG:NH2	2.33	0.42
1:A1:337:ASN:HD21	3:4F:69:TYR:N	2.17	0.42
2:B2:278:ALA:HB3	18:5Z:43:ASN:ND2	2.28	0.42
1:C4:53:GLU:OE1	22:6I:23:TYR:OH	2.30	0.42
1:E6:320:ARG:HH12	22:6L:115:SER:HA	1.85	0.42
1:E8:35:THR:HG21	22:6M:260:VAL:H	1.84	0.42
1:G6:8:GLN:CD	1:G6:17:GLY:HA3	2.40	0.42
1:G6:28:HIS:CD2	1:G6:47:ILE:HG22	2.54	0.42
1:G6:173:PRO:HB3	1:G6:384:GLN:HE22	1.85	0.42
1:G8:212:PHE:HE1	1:G8:220:PRO:HG3	1.85	0.42
1:G8:396:HIS:H	1:G8:396:HIS:CD2	2.38	0.42
2:G9:155:GLU:CD	2:G9:197:HIS:HE2	2.23	0.42
2:G9:170:THR:HG21	2:G9:194:LEU:HD11	2.00	0.42
2:H1:262:TYR:CE2	2:H1:435:VAL:HG21	2.55	0.42
1:H2:135:VAL:O	1:H2:166:THR:HA	2.19	0.42
1:H2:240:LEU:HD12	1:H2:240:LEU:H	1.85	0.42
2:H3:165:SER:OG	2:H3:252:ILE:HD12	2.19	0.42
1:H4:242:PHE:CD1	1:H4:356:ILE:HG13	2.54	0.42
2:H5:50:ASN:O	2:H5:64:ARG:NH2	2.52	0.42
2:H5:98:ASP:OD1	2:H5:99:ALA:N	2.53	0.42
2:H7:205:ASP:OD1	2:H7:303:VAL:HG13	2.18	0.42
1:H8:170:VAL:HG22	1:H8:202:LEU:O	2.19	0.42
2:H9:137:VAL:HG22	2:H9:168:GLY:HA2	2.02	0.42
2:H9:331:SER:O	2:H9:334:THR:N	2.53	0.42
1:I0:152:ILE:HD12	1:I0:164:MET:SD	2.60	0.42
2:I1:165:SER:HA	2:I1:199:ASP:OD1	2.19	0.42
1:I2:97:ALA:HA	1:I2:103:LYS:HE3	2.02	0.42
2:I3:154:LEU:HD23	2:I3:154:LEU:HA	1.82	0.42
1:I4:154:LYS:HA	1:I4:154:LYS:HD3	1.91	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I7:139:ASN:O	2:I7:170:THR:HA	2.19	0.42
1:I8:97:ALA:HA	1:I8:103:LYS:HE3	2.01	0.42
1:J0:4:ILE:HB	1:J0:50:TYR:HE1	1.84	0.42
1:J0:165:LEU:HD23	1:J0:165:LEU:HA	1.87	0.42
2:J1:18:ASN:HD21	2:J1:78:VAL:HG22	1.85	0.42
2:J1:73:THR:HG21	1:J2:2:ARG:HH22	1.85	0.42
2:J1:413:MET:HB3	2:J1:417:GLU:OE2	2.20	0.42
1:J2:173:PRO:HD2	1:J2:380:ARG:NH1	2.34	0.42
1:J2:287:PRO:HD3	1:J2:325:GLU:OE2	2.20	0.42
1:J4:113:ILE:HA	1:J4:113:ILE:HD13	1.84	0.42
1:J6:117:LEU:HD23	1:J6:117:LEU:HA	1.91	0.42
1:J8:5:VAL:HB	1:J8:133:PHE:HD1	1.85	0.42
1:J8:53:GLU:HB2	29:J7:372:PHE:HZ	1.84	0.42
2:K1:36:MET:HA	2:K1:37:PRO:HD3	1.92	0.42
2:K1:392:ASP:CG	2:K1:425:LEU:HD13	2.40	0.42
2:K5:183:GLU:HG3	2:K5:184:PRO:HD3	2.01	0.42
1:K8:2:ARG:HB3	1:K8:131:GLN:HB2	2.01	0.42
1:L4:173:PRO:HD2	1:L4:380:ARG:CZ	2.50	0.42
1:L4:294:TRP:CD1	1:L4:333:VAL:HG21	2.55	0.42
2:L5:26:LEU:HD23	2:L5:363:VAL:HG12	2.02	0.42
1:L6:189:VAL:HA	1:L6:192:LEU:HB2	2.02	0.42
1:L6:233:MET:O	1:L6:236:ILE:HG22	2.19	0.42
1:L6:272:PRO:O	1:L6:273:LEU:HD23	2.19	0.42
2:L7:70:LEU:HD12	2:L7:145:THR:OG1	2.20	0.42
2:L9:213:CYS:O	2:L9:219:ILE:N	2.52	0.42
1:M0:198:GLU:HB3	1:M0:258:ILE:HD11	2.02	0.42
2:M1:8:HIS:CD2	2:M1:138:PHE:HD2	2.37	0.42
2:M1:317:LEU:HB3	2:M1:319:TYR:HE1	1.85	0.42
1:M2:309:ARG:NH1	1:M2:339:SER:O	2.52	0.42
2:M5:73:THR:HG23	1:M6:2:ARG:HH22	1.85	0.42
2:M5:93:ILE:HD12	2:M5:117:LEU:HD21	2.01	0.42
1:M6:77:ARG:HG2	1:M6:90:PHE:CE2	2.55	0.42
1:M6:165:LEU:HD11	1:M6:250:LEU:HD11	2.01	0.42
1:M6:396:HIS:CE1	1:M6:397:TRP:CE2	3.07	0.42
2:M7:66:ILE:O	2:M7:66:ILE:HG13	2.19	0.42
1:M8:273:LEU:H	1:M8:292:GLN:HE22	1.66	0.42
1:N0:95:THR:HG23	1:N0:96:GLY:N	2.35	0.42
1:N2:314:SER:HA	1:N2:350:LYS:O	2.20	0.42
2:N5:21:TRP:CZ3	2:N5:63:PRO:HB3	2.55	0.42
2:N5:274:PRO:HG3	2:N5:286:LEU:HD11	2.00	0.42
2:N7:125:LEU:HD23	2:N7:125:LEU:HA	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O0:179:VAL:HB	2:O1:258:ASN:HD22	1.83	0.42
2:O1:217:LEU:HG	2:O1:275:ILE:HG22	2.00	0.42
2:O1:407:TRP:CD1	1:O2:255:VAL:HG23	2.54	0.42
2:O3:21:TRP:CZ2	2:O3:65:CYS:HB2	2.54	0.42
2:O3:90:GLU:HB3	2:O3:121:ARG:CZ	2.49	0.42
1:O4:165:LEU:HD11	1:O4:250:LEU:HD23	2.02	0.42
1:O4:360:GLY:HA2	19:6E:77:GLN:HG2	2.01	0.42
1:O4:361:LEU:HD22	19:6E:73:HIS:HD2	1.84	0.42
1:O6:403:MET:HE3	1:O6:403:MET:HB2	1.69	0.42
2:O7:331:SER:O	2:O7:334:THR:OG1	2.30	0.42
1:O8:138:SER:HA	1:O8:169:VAL:HG22	2.02	0.42
1:O8:344:TRP:CE3	1:O8:345:ILE:HG13	2.54	0.42
2:O9:66:ILE:O	2:O9:66:ILE:HG13	2.19	0.42
2:O9:188:VAL:HG21	2:O9:395:PHE:CE1	2.54	0.42
2:P3:274:PRO:CB	2:P3:286:LEU:HD11	2.50	0.42
1:P4:121:ARG:O	1:P4:125:GLU:HG2	2.20	0.42
2:P5:27:GLU:CD	2:P5:243:ARG:HH12	2.23	0.42
2:P5:88:HIS:CG	2:P5:89:PRO:CD	3.01	0.42
2:P5:155:GLU:CD	2:P5:197:HIS:HE1	2.23	0.42
2:P5:205:ASP:O	2:P5:209:ILE:HG13	2.19	0.42
1:P6:213:ARG:HE	1:P6:297:LYS:HZ2	1.67	0.42
1:P8:141:GLY:HA3	39:P8:502:GDP:PB	2.60	0.42
1:P8:198:GLU:HA	1:P8:264:HIS:HB2	2.02	0.42
1:Q0:5:VAL:CG2	1:Q0:133:PHE:HD1	2.32	0.42
1:Q2:183:TYR:O	1:Q2:187:LEU:HD13	2.19	0.42
1:Q6:183:TYR:O	1:Q6:187:LEU:HD13	2.20	0.42
1:Q8:21:TRP:O	1:Q8:25:SER:OG	2.34	0.42
2:Q9:279:GLU:HA	7:4Q:336:GLN:NE2	2.35	0.42
1:R0:5:VAL:CG1	1:R0:133:PHE:HD1	2.32	0.42
2:R1:217:LEU:HD21	2:R1:368:LEU:HD23	2.02	0.42
1:R2:70:PRO:HG2	2:R3:2:ARG:NH1	2.35	0.42
1:R4:325:GLU:O	1:R4:329:GLN:HG2	2.20	0.42
1:R4:362:LYS:HE3	1:R4:362:LYS:HB3	1.83	0.42
2:R5:116:ASP:OD1	2:R5:117:LEU:N	2.53	0.42
2:R5:118:ALA:O	2:R5:122:ILE:HG13	2.20	0.42
2:R5:156:ARG:HA	2:R5:159:VAL:HG12	2.00	0.42
1:R6:172:SER:OG	1:R6:173:PRO:HD2	2.20	0.42
1:S0:417:ASP:OD1	1:S0:418:LEU:N	2.52	0.42
1:S2:377:MET:HG3	1:S2:378:PHE:N	2.34	0.42
1:S4:228:LEU:O	1:S4:232:VAL:HG23	2.20	0.42
1:S4:251:ARG:O	1:S4:255:VAL:HG22	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S6:240:LEU:HD11	1:S6:250:LEU:HD13	2.02	0.42
1:T0:211:CYS:HB3	1:T0:220:PRO:HB3	2.01	0.42
1:T0:237:THR:HG23	1:T0:241:ARG:HE	1.84	0.42
1:T2:28:HIS:CG	1:T2:47:ILE:HG22	2.54	0.42
1:T2:192:LEU:HD23	1:T2:192:LEU:HA	1.80	0.42
2:T3:271:SER:HB3	2:T3:301:MET:HA	2.02	0.42
1:T4:174:LYS:HG3	1:T4:380:ARG:NH2	2.34	0.42
2:T5:9:ILE:HD13	2:T5:150:GLY:HA2	2.01	0.42
2:T5:260:VAL:HG23	2:T5:260:VAL:O	2.20	0.42
1:T6:135:VAL:HG12	1:T6:165:LEU:O	2.19	0.42
1:T6:204:ASN:ND2	39:T6:502:GDP:HN22	2.17	0.42
1:T6:233:MET:O	1:T6:237:THR:HG22	2.20	0.42
2:T7:14:ILE:HD11	2:T7:74:VAL:HG22	2.02	0.42
1:T8:86:ARG:NH2	1:T8:88:ASP:OD2	2.52	0.42
1:T8:301:CYS:SG	1:T8:302:ALA:N	2.92	0.42
2:U5:222:PRO:CD	1:U6:324:LYS:HE3	2.49	0.42
2:U5:236:SER:O	2:U5:243:ARG:NH2	2.53	0.42
1:U8:179:VAL:HG23	2:U9:349:THR:O	2.19	0.42
1:U8:220:PRO:HD2	2:U9:326:LYS:HD3	2.00	0.42
1:V0:6:HIS:CE1	1:V0:8:GLN:HG2	2.54	0.42
1:V0:285:THR:OG1	1:V0:287:PRO:HD2	2.19	0.42
2:V1:6:SER:OG	2:V1:8:HIS:HE1	2.03	0.42
2:V1:75:VAL:HG11	2:V1:94:SER:HB2	2.01	0.42
1:V4:379:LYS:O	1:V4:383:GLU:HG2	2.19	0.42
1:V6:134:GLN:HE22	1:V6:237:THR:HG21	1.85	0.42
2:V7:139:ASN:N	2:V7:139:ASN:OD1	2.52	0.42
1:V8:173:PRO:HG2	1:V8:174:LYS:NZ	2.34	0.42
1:V8:287:PRO:HD3	1:V8:325:GLU:OE1	2.20	0.42
2:V9:112:LYS:HD3	2:V9:112:LYS:HA	1.77	0.42
2:V9:211:ASP:CG	2:V9:215:ARG:HH12	2.23	0.42
2:W1:102:ASN:HB3	2:W1:105:ARG:HB3	2.01	0.42
1:W2:221:THR:OG1	1:W2:222:PHE:N	2.53	0.42
2:W3:73:THR:HA	1:W4:46:ARG:HH21	1.84	0.42
1:X2:49:VAL:HG23	1:X2:50:TYR:CD1	2.55	0.42
1:X4:181:GLU:OE1	1:X4:181:GLU:HA	2.20	0.42
1:X4:244:GLY:HA2	1:X4:355:ASP:CG	2.39	0.42
2:X7:167:LEU:HG	2:X7:252:ILE:HD11	2.02	0.42
2:X9:195:LEU:HD23	2:X9:195:LEU:HA	1.76	0.42
1:Y0:30:ILE:HG13	1:Y0:35:THR:O	2.20	0.42
2:Y1:90:GLU:HB3	2:Y1:121:ARG:HH22	1.84	0.42
2:Y1:121:ARG:HD2	2:Y1:124:LYS:HE3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y2:208:TYR:CE1	1:Y2:225:LEU:HD11	2.55	0.42
1:Y4:221:THR:OG1	1:Y4:222:PHE:N	2.53	0.42
1:Y4:284:LEU:HD23	1:Y4:284:LEU:HA	1.89	0.42
1:Y4:322:SER:OG	1:Y4:325:GLU:OE1	2.36	0.42
1:Y8:237:THR:HG23	1:Y8:241:ARG:HE	1.85	0.42
1:Z2:70:PRO:HG2	2:Z3:2:ARG:NH1	2.34	0.42
1:Z2:91:VAL:HG11	1:Z2:116:VAL:HG22	2.02	0.42
2:Z3:188:VAL:HG23	2:Z3:189:LEU:HD12	2.01	0.42
1:Z6:58:ARG:HH11	1:Z6:84:ILE:HA	1.84	0.42
1:Z8:130:LEU:HD23	1:Z8:162:ARG:HG3	2.02	0.42
2:Z9:325:PRO:HA	2:Z9:328:VAL:HG12	2.02	0.42
2:0B:90:GLU:H	2:0R:283:HIS:CE1	2.37	0.42
2:0F:280:LYS:HA	2:0F:283:HIS:HB3	2.02	0.42
2:0F:332:VAL:HA	2:0F:335:ILE:HG22	2.00	0.42
2:0H:209:ILE:HG21	2:0H:227:LEU:HG	2.02	0.42
1:0I:3:GLU:HA	1:0I:49:VAL:HG23	2.00	0.42
1:0I:162:ARG:HA	1:0I:162:ARG:HD3	1.87	0.42
2:0J:54:SER:O	2:0J:61:HIS:HA	2.20	0.42
1:0K:317:PHE:HE2	1:0K:326:VAL:HG13	1.84	0.42
2:0L:103:PHE:N	2:0L:186:ASN:OD1	2.53	0.42
2:0L:261:PRO:HG3	2:0L:346:TRP:HH2	1.84	0.42
2:0L:288:VAL:O	2:0L:292:THR:OG1	2.29	0.42
2:0N:166:LYS:HE2	2:0N:166:LYS:HB2	1.92	0.42
2:0N:280:LYS:HA	2:0N:283:HIS:HB3	2.02	0.42
2:0N:330:ALA:O	2:0N:334:THR:HG23	2.20	0.42
1:0O:207:LEU:HD13	1:0O:225:LEU:HB3	2.01	0.42
1:0Q:179:VAL:HB	2:0R:258:ASN:HD22	1.84	0.42
2:0R:154:LEU:HD12	2:0R:154:LEU:HA	1.87	0.42
1:0S:374:ILE:HG13	1:0S:377:MET:CE	2.49	0.42
1:0U:393:ALA:O	1:0U:395:LEU:N	2.53	0.42
2:0V:231:ILE:O	2:0V:235:ILE:HG12	2.19	0.42
1:1A:389:PHE:O	1:1A:392:LYS:NZ	2.32	0.42
2:1D:237:SER:HA	2:1D:320:ARG:HD2	2.01	0.42
1:1E:12:CYS:SG	1:1E:13:GLY:N	2.93	0.42
1:1E:138:SER:OG	1:1E:139:LEU:N	2.52	0.42
1:1K:152:ILE:HD13	1:1K:152:ILE:HA	1.88	0.42
1:1K:173:PRO:HA	1:1K:176:SER:HB3	2.01	0.42
1:1K:208:TYR:HE1	1:1K:225:LEU:HD21	1.85	0.42
2:1L:165:SER:HB2	2:1L:199:ASP:OD2	2.19	0.42
2:1L:287:SER:H	2:1L:290:GLU:CD	2.17	0.42
2:1L:317:LEU:HB3	2:1L:319:TYR:CE1	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1L:331:SER:O	2:1L:334:THR:OG1	2.25	0.42
1:1M:390:ARG:HE	1:1M:390:ARG:HB2	1.60	0.42
1:1M:421:GLU:HA	1:1M:424:GLN:HB3	2.00	0.42
2:1N:88:HIS:HB3	2:1N:91:GLN:CG	2.48	0.42
1:1Q:280:GLN:HE21	9:4Z:193:LEU:HD23	1.84	0.42
1:1S:314:SER:HA	1:1S:350:LYS:O	2.20	0.42
2:1V:109:THR:OG1	2:1V:411:GLU:OE2	2.35	0.42
1:1W:39:ASP:OD1	1:1W:39:ASP:N	2.46	0.42
2:1X:417:GLU:OE1	2:1X:417:GLU:N	2.44	0.42
2:1Z:156:ARG:NH2	38:7Z:29:GLY:O	2.52	0.42
2:1Z:238:LEU:HD12	2:1Z:238:LEU:HA	1.84	0.42
2:1Z:335:ILE:HA	2:1Z:338:LYS:HG2	2.00	0.42
1:2A:14:ASN:HD22	1:2A:65:LEU:HD22	1.84	0.42
1:2A:27:GLU:HA	1:2A:359:LYS:CD	2.49	0.42
2:2B:72:PRO:HD2	1:2C:2:ARG:NH1	2.35	0.42
1:2C:116:VAL:HA	1:2C:119:VAL:HG12	2.01	0.42
1:2C:174:LYS:HE2	1:2C:174:LYS:HB3	1.74	0.42
1:2C:233:MET:O	1:2C:237:THR:HG22	2.19	0.42
2:2L:50:ASN:O	2:2L:64:ARG:NH2	2.52	0.42
1:2M:114:ASP:OD2	38:8D:101:ASP:HA	2.20	0.42
1:2M:203:ASP:O	1:2M:207:LEU:HD23	2.20	0.42
1:2M:256:ASN:O	1:2M:312:THR:HG21	2.19	0.42
2:2N:88:HIS:CG	2:3D:283:HIS:HA	2.54	0.42
2:2P:239:THR:HG23	2:2P:243:ARG:HH21	1.85	0.42
2:2R:181:VAL:HG23	2:2R:182:VAL:HG13	2.00	0.42
2:2R:246:GLY:HA3	2:2R:356:ASN:HA	2.02	0.42
1:2S:311:LEU:HD23	1:2S:311:LEU:HA	1.74	0.42
1:2U:31:ASP:OD2	1:2U:35:THR:OG1	2.38	0.42
1:2U:98:GLY:HA2	2:2V:254:GLU:OE1	2.20	0.42
1:2U:337:ASN:CG	38:8B:97:PHE:HA	2.39	0.42
2:2V:391:LEU:HD23	2:2V:391:LEU:HA	1.82	0.42
1:3A:107:THR:OG1	1:3A:108:GLU:OE1	2.21	0.42
2:3B:47:ASP:HB2	38:8D:218:PRO:HD3	2.01	0.42
2:3B:76:ASP:O	2:3B:80:THR:HG22	2.20	0.42
1:3C:213:ARG:HH12	38:8D:104:LYS:HE2	1.83	0.42
1:3G:152:ILE:HD12	1:3G:164:MET:SD	2.60	0.42
2:3J:220:GLU:CG	38:8B:177:HIS:HB3	2.49	0.42
1:3K:309:ARG:H	1:3K:372:THR:HG22	1.85	0.42
2:3L:133:GLN:HB3	2:3L:252:ILE:HG21	2.01	0.42
1:3M:2:ARG:HB3	1:3M:131:GLN:HB2	2.02	0.42
1:3Q:77:ARG:NH1	3:4H:18:LYS:C	2.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3R:28:HIS:CE1	2:3R:49:PHE:HA	2.54	0.42
2:3R:111:GLY:HA2	2:3R:114:ILE:HG22	2.02	0.42
2:3R:209:ILE:HG23	2:3R:230:LEU:HD11	2.02	0.42
1:3S:309:ARG:H	1:3S:372:THR:HG22	1.84	0.42
1:3S:418:LEU:O	1:3S:421:GLU:HG2	2.20	0.42
2:3T:173:PRO:HB3	2:3T:183:GLU:HG2	2.02	0.42
3:4D:9:LEU:HD22	3:4D:173:ARG:HH11	1.84	0.42
5:4L:367:GLN:O	5:4L:371:ILE:HG13	2.20	0.42
10:5C:250:LYS:O	10:5C:254:MET:HG2	2.19	0.42
12:5F:43:HIS:NE2	12:5F:53:HIS:HB2	2.34	0.42
12:5F:288:ARG:HD3	12:5F:288:ARG:HA	1.67	0.42
13:5H:61:LEU:HD12	13:5H:67:LYS:HD3	2.00	0.42
13:5K:61:LEU:HD12	13:5K:67:LYS:HD3	2.00	0.42
14:5L:12:GLY:HA2	14:5L:338:ALA:CB	2.49	0.42
14:5L:111:PHE:C	14:5L:155:PHE:HD2	2.22	0.42
14:5M:12:GLY:HA2	14:5M:338:ALA:CB	2.49	0.42
14:5M:416:ILE:O	14:5M:416:ILE:HG23	2.19	0.42
14:5N:127:ASN:HB2	38:8D:227:LYS:HZ1	1.83	0.42
14:5N:384:GLU:OE2	14:5N:385:CYS:N	2.53	0.42
15:5P:23:LYS:HB2	15:5P:40:ILE:HD12	2.00	0.42
15:5P:178:PRO:HG2	15:5P:183:GLN:HE22	1.85	0.42
16:5Q:56:ASP:OD2	16:5Q:56:ASP:C	2.57	0.42
17:5T:179:GLN:HE21	17:5T:179:GLN:HB3	1.49	0.42
20:6F:13:ILE:HD12	20:6F:13:ILE:HA	1.86	0.42
20:6F:56:GLU:HG2	20:6F:296:LYS:HD3	2.01	0.42
22:6K:168:THR:HA	22:6K:171:GLU:CD	2.39	0.42
22:6N:16:LYS:HD3	22:6N:20:TYR:CE2	2.55	0.42
22:6N:171:GLU:HA	22:6N:174:GLU:OE1	2.19	0.42
22:6O:276:LEU:HD12	22:6O:276:LEU:HA	1.81	0.42
22:6P:266:LYS:O	22:6P:269:GLU:HG3	2.20	0.42
24:6T:400:LEU:HD23	24:6T:400:LEU:H	1.83	0.42
24:6U:469:PHE:CD2	24:6U:482:ILE:HG23	2.53	0.42
24:6V:460:HIS:HB2	24:6V:465:LEU:HD22	2.02	0.42
24:6V:629:PHE:CZ	24:6V:633:LEU:HD11	2.55	0.42
24:6W:8:ILE:HA	24:6W:9:PRO:HD3	1.92	0.42
24:6W:273:LEU:HA	24:6W:375:THR:HG22	2.01	0.42
24:6W:345:ASP:OD1	24:6W:346:GLN:N	2.53	0.42
24:6Y:93:ARG:HD2	26:7F:48:LEU:HB2	2.01	0.42
24:6Y:198:GLU:HG2	24:6Y:198:GLU:O	2.19	0.42
24:6Y:460:HIS:HB2	24:6Y:465:LEU:HD22	2.02	0.42
24:6Z:138:ASP:OD1	24:6Z:139:ASN:N	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:7J:333:THR:O	29:7J:337:ARG:HG2	2.20	0.42
30:7K:243:LEU:HD23	30:7K:243:LEU:HA	1.90	0.42
30:7L:399:LEU:HB2	30:7L:403:ASP:OD2	2.19	0.42
37:7Y:126:LYS:HB3	37:7Y:212:TRP:NE1	2.35	0.42
1:C6:320:ARG:NH2	18:5X:186:LYS:O	2.52	0.42
2:E1:282:TYR:HE2	22:6I:83:TRP:HE1	1.66	0.42
1:G0:212:PHE:CZ	2:G1:326:LYS:HG3	2.54	0.42
2:G1:317:LEU:HA	2:G1:317:LEU:HD23	1.85	0.42
1:G2:318:ARG:HD3	1:G2:358:PRO:HD3	2.02	0.42
2:G5:203:MET:HE3	2:G5:267:PHE:HB3	2.01	0.42
2:G7:14:ILE:HD11	2:G7:69:ASP:HB2	2.02	0.42
2:G7:296:PHE:HE1	2:G7:377:MET:HG3	1.84	0.42
2:G9:181:VAL:HG23	2:G9:182:VAL:HG13	2.02	0.42
2:G9:189:LEU:HD11	2:G9:418:PHE:CZ	2.55	0.42
2:G9:290:GLU:HA	2:G9:293:ASN:HD22	1.85	0.42
1:H2:91:VAL:CG1	1:H2:116:VAL:HG12	2.49	0.42
1:H4:122:LYS:NZ	1:J0:291:GLN:HB3	2.35	0.42
2:H7:223:THR:HG23	2:H7:225:THR:H	1.84	0.42
1:I4:117:LEU:HA	1:I4:120:VAL:HG12	2.02	0.42
2:I5:99:ALA:HB2	2:I5:110:ILE:HD11	2.01	0.42
2:I5:193:SER:HB2	2:I5:197:HIS:ND1	2.35	0.42
2:I7:237:SER:HA	2:I7:320:ARG:HD2	2.02	0.42
2:I9:178:SER:HB3	2:I9:183:GLU:OE2	2.19	0.42
1:J0:175:VAL:HB	2:J1:329:ASN:HD21	1.85	0.42
2:J1:33:ASP:HA	2:J1:85:GLN:HB2	2.01	0.42
1:J4:135:VAL:O	1:J4:166:THR:HA	2.19	0.42
1:J4:357:PRO:HG2	16:5Q:14:PRO:HB3	2.02	0.42
2:J5:271:SER:OG	2:J5:377:MET:HB3	2.19	0.42
2:J5:420:GLU:O	2:J5:423:GLU:HG3	2.19	0.42
2:J7:218:ASP:OD2	2:J7:280:LYS:HE2	2.14	0.42
2:J7:274:PRO:HG3	2:J7:286:LEU:HD21	2.00	0.42
1:K0:169:VAL:HG23	1:K0:203:ASP:HA	2.02	0.42
2:K1:388:PHE:HD2	2:K1:432:PHE:HE2	1.66	0.42
2:K3:100:ALA:HA	1:K4:252:LYS:HE3	2.01	0.42
1:K4:201:VAL:HG12	1:K4:266:PHE:O	2.20	0.42
1:K4:272:PRO:HB2	1:K4:282:ARG:HH12	1.84	0.42
1:K4:354:CYS:SG	1:K4:355:ASP:N	2.92	0.42
1:K8:116:VAL:O	1:K8:120:VAL:HG12	2.19	0.42
1:L0:117:LEU:HA	1:L0:117:LEU:HD23	1.79	0.42
1:L0:237:THR:O	1:L0:237:THR:HG22	2.20	0.42
2:L3:238:LEU:HD12	2:L3:239:THR:HG23	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L4:339:SER:H	35:7U:147:ASN:HD21	1.66	0.42
1:L4:397:TRP:CZ2	2:L5:256:GLN:HB3	2.55	0.42
2:L5:63:PRO:HG2	2:L5:87:PHE:CE1	2.55	0.42
1:L6:68:LEU:HB3	1:L6:96:GLY:HA2	2.01	0.42
1:L6:165:LEU:HD13	1:L6:250:LEU:HD11	2.02	0.42
2:L7:105:ARG:O	2:L7:110:ILE:HG12	2.20	0.42
1:M0:232:VAL:HG11	1:M0:268:VAL:HG11	2.02	0.42
1:M0:274:THR:HG21	1:M0:282:ARG:HD2	2.02	0.42
1:M0:403:MET:HE2	1:M0:403:MET:HB2	1.84	0.42
2:M3:326:LYS:HG3	2:M3:327:ASP:N	2.35	0.42
1:M4:114:ASP:N	1:M4:114:ASP:OD1	2.53	0.42
1:M4:120:VAL:HG11	1:M4:155:ILE:HD11	2.02	0.42
2:M5:209:ILE:HD13	2:M5:231:ILE:HD11	2.01	0.42
2:M9:345:ASP:OD1	2:M9:346:TRP:N	2.53	0.42
1:N0:145:SER:OG	1:N0:146:GLY:N	2.53	0.42
2:N1:74:VAL:O	2:N1:78:VAL:HG23	2.19	0.42
2:N3:105:ARG:HG2	2:N3:105:ARG:HH11	1.83	0.42
2:N3:245:ASP:N	2:N3:245:ASP:OD1	2.47	0.42
2:N5:245:ASP:N	32:7O:87:ASP:OD1	2.53	0.42
2:N7:157:LEU:HD23	2:N7:157:LEU:HA	1.85	0.42
2:N7:191:THR:HA	2:N7:194:LEU:HB3	2.01	0.42
2:N9:266:HIS:ND1	2:N9:266:HIS:O	2.52	0.42
2:N9:306:ASP:OD2	2:N9:308:ARG:HB2	2.20	0.42
2:O1:119:LEU:HA	2:O1:122:ILE:HG12	2.01	0.42
2:O5:120:ASP:OD1	2:O5:121:ARG:N	2.53	0.42
2:O5:396:ASP:CG	2:O5:422:ARG:HE	2.22	0.42
2:O9:88:HIS:O	2:O9:90:GLU:N	2.53	0.42
1:P4:48:ASN:O	1:P4:62:ARG:NH1	2.48	0.42
2:P9:258:ASN:C	2:P9:259:LEU:HD12	2.40	0.42
2:Q3:47:ASP:HB2	32:7P:216:LYS:HB3	2.02	0.42
2:Q3:320:ARG:HE	2:Q3:320:ARG:HB3	1.64	0.42
1:Q4:8:GLN:CD	1:Q4:17:GLY:HA3	2.40	0.42
1:Q4:217:LEU:HD22	20:6F:184:ARG:NH1	2.34	0.42
1:Q4:344:TRP:CE3	1:Q4:345:ILE:HG13	2.55	0.42
1:Q6:39:ASP:OD1	1:Q6:39:ASP:N	2.45	0.42
1:Q8:318:ARG:HB3	1:Q8:357:PRO:HA	2.02	0.42
2:Q9:132:LEU:O	2:Q9:164:LYS:NZ	2.45	0.42
1:R0:309:ARG:O	1:R0:372:THR:HG22	2.20	0.42
1:R0:391:ARG:HD2	2:R1:346:TRP:CG	2.55	0.42
1:R2:172:SER:HB3	1:R2:175:VAL:CG2	2.49	0.42
1:R2:178:THR:HG22	1:R2:180:VAL:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R2:396:HIS:CD2	1:R2:396:HIS:H	2.37	0.42
2:R3:223:THR:OG1	2:R3:224:TYR:N	2.53	0.42
2:R5:245:ASP:OD1	2:R5:245:ASP:N	2.51	0.42
2:R7:137:VAL:HG22	2:R7:168:GLY:HA2	2.02	0.42
2:R7:170:THR:HG21	2:R7:194:LEU:HD11	2.01	0.42
2:S1:183:GLU:HG3	2:S1:184:PRO:HD3	2.02	0.42
1:S6:178:THR:HG22	2:S7:352:LYS:HE2	2.01	0.42
1:S6:252:LYS:HE3	1:S6:350:LYS:HE2	2.02	0.42
1:S8:176:SER:O	1:S8:176:SER:OG	2.33	0.42
1:T2:138:SER:OG	1:T2:139:LEU:N	2.53	0.42
2:T5:176:GLN:NE2	2:T5:207:GLU:OE2	2.52	0.42
2:T5:320:ARG:HE	2:T5:320:ARG:HB3	1.64	0.42
1:T6:207:LEU:HD23	1:T6:207:LEU:HA	1.84	0.42
2:T7:139:ASN:N	2:T7:139:ASN:OD1	2.53	0.42
2:T7:157:LEU:HA	2:T7:157:LEU:HD23	1.74	0.42
2:U5:76:ASP:O	2:U5:80:THR:HG22	2.19	0.42
1:U6:50:TYR:HD1	1:U6:50:TYR:HA	1.62	0.42
1:U6:138:SER:OG	1:U6:139:LEU:N	2.52	0.42
1:U6:220:PRO:HD2	2:U7:326:LYS:HD3	2.02	0.42
2:U7:9:ILE:HG22	2:U7:146:GLY:HA2	2.01	0.42
1:U8:8:GLN:NE2	1:U8:17:GLY:HA3	2.35	0.42
1:U8:273:LEU:H	1:U8:292:GLN:HE22	1.67	0.42
1:V0:173:PRO:HG2	1:V0:174:LYS:HE2	2.01	0.42
1:V0:362:LYS:HB3	1:V0:362:LYS:HE3	1.80	0.42
2:V1:222:PRO:CD	1:V2:324:LYS:HE3	2.49	0.42
1:V6:2:ARG:NH2	1:V6:131:GLN:HG3	2.33	0.42
1:V6:167:PHE:CZ	1:V6:236:ILE:HD11	2.54	0.42
1:V6:186:THR:HG22	1:V6:411:ALA:HB1	2.01	0.42
2:V9:35:GLN:N	2:V9:35:GLN:OE1	2.53	0.42
2:V9:213:CYS:HA	2:V9:217:LEU:HB2	2.01	0.42
2:V9:413:MET:HB3	2:V9:417:GLU:OE2	2.19	0.42
2:W1:186:ASN:OD1	2:W1:408:TYR:OH	2.36	0.42
2:W3:55:GLU:HG2	2:W3:61:HIS:CE1	2.55	0.42
2:W3:103:PHE:CE1	2:W3:148:GLY:HA2	2.55	0.42
2:W3:286:LEU:O	2:W3:373:ARG:NH1	2.53	0.42
2:W5:154:LEU:HG	2:W5:197:HIS:HB3	2.01	0.42
1:W6:271:THR:HG22	1:W6:289:LEU:HG	2.01	0.42
2:W7:35:GLN:OE1	2:W7:35:GLN:N	2.53	0.42
2:W7:237:SER:OG	2:W7:376:CYS:SG	2.75	0.42
1:W8:22:GLU:HG2	1:W8:81:TYR:HB2	2.02	0.42
1:W8:86:ARG:HB3	1:W8:89:ASN:OD1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W9:84:ARG:CG	2:W9:84:ARG:NH1	2.82	0.42
1:X0:144:GLY:N	39:X0:502:GDP:O1B	2.51	0.42
1:X2:141:GLY:HA3	39:X2:501:GDP:O3A	2.20	0.42
1:X2:322:SER:O	1:X2:326:VAL:HG23	2.19	0.42
1:X4:208:TYR:CE1	1:X4:225:LEU:HD11	2.55	0.42
1:X4:359:LYS:HE2	8:4V:452:LEU:HB3	2.00	0.42
1:X6:210:ILE:HD13	1:X6:210:ILE:HA	1.91	0.42
2:Y3:180:ALA:HB3	2:Y3:183:GLU:HG3	2.02	0.42
2:Y3:290:GLU:OE1	2:Y3:290:GLU:N	2.39	0.42
2:Y5:70:LEU:HD11	2:Y5:110:ILE:HG12	2.02	0.42
2:Y5:225:THR:HG22	2:Y5:229:ARG:HE	1.85	0.42
1:Y6:156:ARG:HA	1:Y6:156:ARG:HD2	1.90	0.42
1:Y8:304:ASP:HB3	1:Y8:307:HIS:CG	2.53	0.42
1:Y8:392:LYS:HD2	1:Y8:395:LEU:HD12	2.01	0.42
1:Z0:12:CYS:O	1:Z0:16:ILE:HG22	2.20	0.42
2:Z1:73:THR:OG1	2:Z1:74:VAL:N	2.53	0.42
2:Z1:362:VAL:HB	2:Z1:370:LYS:HE3	2.00	0.42
1:Z2:152:ILE:HG22	1:Z2:195:ASN:HB3	2.02	0.42
1:Z2:284:LEU:HG	1:Z2:362:LYS:NZ	2.34	0.42
2:Z3:203:MET:SD	2:Z3:203:MET:N	2.93	0.42
1:Z4:7:ILE:HG12	1:Z4:64:ILE:HD13	2.01	0.42
1:Z4:69:GLU:OE2	1:Z4:69:GLU:N	2.52	0.42
1:Z4:136:CYS:SG	1:Z4:167:PHE:HB2	2.60	0.42
1:Z4:248:ALA:CB	1:Z4:252:LYS:HD3	2.49	0.42
1:Z4:270:PHE:O	1:Z4:298:ASN:ND2	2.32	0.42
2:Z5:268:MET:SD	2:Z5:380:ASN:HB2	2.59	0.42
2:Z7:377:MET:SD	2:Z7:379:SER:HB2	2.60	0.42
1:Z8:394:PHE:HA	2:Z9:261:PRO:HA	2.02	0.42
2:Z9:262:TYR:HD2	2:Z9:265:ILE:HD12	1.84	0.42
1:0C:11:GLN:N	39:0C:502:GDP:O2B	2.44	0.42
1:0C:235:GLY:O	1:0C:316:LEU:HD22	2.19	0.42
1:0E:374:ILE:HD11	1:0E:422:TYR:CZ	2.55	0.42
2:0F:377:MET:O	2:0F:378:ILE:HD13	2.20	0.42
1:0G:5:VAL:HG12	1:0G:133:PHE:HD1	1.84	0.42
1:0G:11:GLN:NE2	39:0G:501:GDP:C8	2.84	0.42
1:0G:138:SER:O	1:0G:145:SER:OG	2.32	0.42
2:0J:111:GLY:HA2	2:0J:114:ILE:HG22	2.02	0.42
2:0J:407:TRP:NE1	1:0K:258:ILE:O	2.44	0.42
2:0L:107:HIS:O	2:0L:152:LEU:HD12	2.20	0.42
1:0M:393:ALA:O	1:0M:395:LEU:N	2.52	0.42
2:0P:28:HIS:CE1	2:0P:49:PHE:HA	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0P:252:ILE:HD12	2:0P:255:PHE:CE2	2.54	0.42
1:0Q:136:CYS:SG	1:0Q:167:PHE:HD2	2.43	0.42
1:0S:207:LEU:HB2	1:0S:225:LEU:HD23	2.02	0.42
1:0U:21:TRP:HA	1:0U:24:VAL:HG12	2.01	0.42
1:0U:95:THR:HG23	1:0U:96:GLY:N	2.35	0.42
2:0V:3:GLU:N	2:0V:3:GLU:OE1	2.53	0.42
2:0V:21:TRP:CZ3	2:0V:63:PRO:HB3	2.55	0.42
2:0V:99:ALA:HA	2:0V:105:ARG:HD3	2.01	0.42
1:0W:152:ILE:HG23	1:0W:164:MET:SD	2.60	0.42
1:0W:178:THR:HA	2:0X:352:LYS:HD2	2.00	0.42
1:0W:414:ASN:O	1:0W:418:LEU:HB2	2.19	0.42
2:0X:318:MET:HB2	2:0X:376:CYS:HB3	2.01	0.42
1:1A:112:LEU:O	1:1A:116:VAL:HG23	2.20	0.42
2:1B:320:ARG:O	2:1B:373:ARG:HA	2.19	0.42
1:1C:344:TRP:O	1:1C:345:ILE:HD13	2.19	0.42
2:1D:125:LEU:HD23	2:1D:125:LEU:HA	1.90	0.42
2:1D:221:ARG:HB3	1:1E:322:SER:OG	2.20	0.42
2:1D:387:ILE:HG12	2:1D:390:ARG:NH2	2.33	0.42
1:1E:337:ASN:HB3	1:1E:340:TYR:CD2	2.55	0.42
2:1F:176:GLN:HG2	2:1F:177:VAL:N	2.33	0.42
1:1G:190:HIS:CD2	1:1G:411:ALA:HA	2.55	0.42
1:1G:222:PHE:CE1	2:1H:325:PRO:HG2	2.55	0.42
1:1K:49:VAL:HG13	1:1K:50:TYR:CD1	2.55	0.42
1:1K:244:GLY:H	1:1K:247:ASN:HD21	1.66	0.42
2:1L:200:VAL:HG13	2:1L:268:MET:HE1	2.01	0.42
2:1L:217:LEU:HB3	2:1L:219:ILE:CD1	2.50	0.42
2:1N:326:LYS:HG3	2:1N:327:ASP:N	2.34	0.42
2:1P:14:ILE:HD11	2:1P:74:VAL:HG13	2.00	0.42
2:1P:370:LYS:O	9:4Z:164:GLN:NE2	2.53	0.42
1:1Q:97:ALA:O	1:1Q:103:LYS:HD3	2.20	0.42
1:1Q:178:THR:OG1	1:1Q:181:GLU:HG3	2.19	0.42
1:1U:229:ILE:HG22	1:1U:233:MET:CE	2.50	0.42
2:1V:284:GLU:OE1	2:1V:286:LEU:HD22	2.19	0.42
2:1V:301:MET:HE1	2:1V:307:PRO:HD3	2.00	0.42
1:1W:167:PHE:CE2	1:1W:233:MET:HG2	2.54	0.42
2:2B:177:VAL:HG13	1:2C:327:ASP:CG	2.40	0.42
1:2E:41:ASP:HA	1:2E:44:LEU:HD13	2.02	0.42
2:2F:394:LYS:HB2	1:2G:346:PRO:HG3	2.01	0.42
2:2H:414:GLU:N	2:2H:414:GLU:OE1	2.53	0.42
2:2J:121:ARG:HH11	2:2J:121:ARG:CG	2.32	0.42
1:2K:130:LEU:HB2	1:2K:162:ARG:HE	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2M:122:LYS:NZ	1:3C:291:GLN:HB3	2.35	0.42
2:2N:4:VAL:HG23	2:2N:134:GLY:O	2.19	0.42
2:2N:102:ASN:HD22	2:2N:105:ARG:HB2	1.85	0.42
2:2N:212:ILE:HD13	2:2N:212:ILE:HA	1.89	0.42
2:2P:69:ASP:OD1	2:2P:70:LEU:N	2.53	0.42
1:2Q:332:ASN:HD21	38:7Z:1:MET:CA	2.31	0.42
1:2S:166:THR:OG1	1:2S:199:CYS:SG	2.74	0.42
1:2U:117:LEU:HA	1:2U:120:VAL:HG12	2.01	0.42
2:2V:102:ASN:HB3	2:2V:105:ARG:HB3	2.01	0.42
2:2Z:121:ARG:HA	2:2Z:121:ARG:HD2	1.77	0.42
2:2Z:244:PHE:HB2	2:2Z:356:ASN:HD21	1.84	0.42
1:3A:58:ARG:HB2	1:3A:58:ARG:HH21	1.85	0.42
1:3A:105:HIS:CD2	1:3A:150:LEU:HB2	2.55	0.42
2:3D:9:ILE:HD11	2:3D:153:LEU:HD23	2.01	0.42
2:3D:274:PRO:HB2	2:3D:276:ILE:HG12	2.02	0.42
2:3F:164:LYS:NZ	3:3V:136:HIS:HB2	2.35	0.42
2:3F:402:ARG:HA	2:3F:402:ARG:HD3	1.77	0.42
1:3G:203:ASP:OD2	1:3G:302:ALA:N	2.53	0.42
1:3G:391:ARG:HD2	2:3H:346:TRP:CE2	2.54	0.42
2:3H:91:GLN:HE21	3:3X:36:PHE:HE2	1.65	0.42
1:3I:317:PHE:HB3	1:3I:321:MET:CE	2.50	0.42
2:3L:72:PRO:HD2	1:3M:2:ARG:NH1	2.33	0.42
1:3M:122:LYS:HZ1	3:4D:262:TYR:HA	1.85	0.42
1:3M:391:ARG:HG3	2:3N:346:TRP:CE3	2.55	0.42
2:3N:66:ILE:HD12	2:3N:68:LEU:HD23	2.01	0.42
1:3S:45:GLU:OE2	1:3S:46:ARG:HG2	2.19	0.42
2:3T:105:ARG:HB2	2:3T:411:GLU:OE1	2.20	0.42
3:3X:282:GLU:OE2	3:3X:290:PHE:HB2	2.20	0.42
7:4S:18:ARG:CZ	7:4S:18:ARG:CB	2.97	0.42
7:4T:267:THR:HG22	7:4T:269:THR:H	1.85	0.42
7:4T:292:GLU:O	7:4T:295:GLU:HG3	2.20	0.42
7:4U:66:LEU:HA	7:4U:69:MET:HE2	2.02	0.42
8:4W:277:ALA:O	8:4W:281:GLN:HG2	2.19	0.42
9:4Z:345:GLU:HA	9:4Z:348:GLU:OE1	2.20	0.42
10:5A:277:GLU:HA	10:5A:280:LYS:HD2	2.01	0.42
13:5K:69:GLU:OE1	13:5K:69:GLU:HA	2.19	0.42
14:5L:511:THR:HB	14:5L:531:ASP:CB	2.48	0.42
14:5N:12:GLY:HA2	14:5N:338:ALA:CB	2.49	0.42
14:5N:484:CYS:SG	14:5N:496:TRP:HB2	2.59	0.42
15:5O:321:GLU:O	15:5O:325:GLN:NE2	2.53	0.42
15:5P:148:ARG:HH21	15:5P:151:ASP:HB2	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:5S:220:ALA:O	17:5S:223:GLU:HB2	2.19	0.42
17:5T:220:ALA:O	17:5T:223:GLU:HB2	2.19	0.42
17:5U:205:SER:O	17:5U:209:LYS:HE2	2.19	0.42
17:5U:220:ALA:O	17:5U:223:GLU:HB2	2.19	0.42
18:5Y:128:GLN:CD	18:5Y:129:PRO:HD3	2.39	0.42
22:6I:220:ASP:HA	22:6I:223:LEU:HB3	2.02	0.42
22:6M:164:LYS:O	22:6M:168:THR:HG23	2.19	0.42
22:6O:220:ASP:OD1	22:6O:220:ASP:N	2.52	0.42
24:6U:271:LYS:HB3	24:6U:298:LEU:HD12	2.00	0.42
24:6W:185:ASP:HB3	24:6W:188:THR:HG23	2.00	0.42
24:6Z:274:ARG:HB3	24:6Z:372:ASP:OD2	2.20	0.42
25:7C:10:GLU:O	25:7C:14:ARG:HD3	2.20	0.42
25:7C:17:MET:HE1	25:7C:21:LEU:HD21	2.00	0.42
27:7G:21:VAL:HG12	27:7G:23:VAL:HG13	2.02	0.42
30:7L:388:LEU:HD23	30:7L:388:LEU:HA	1.81	0.42
31:7N:91:PRO:HB2	31:7N:96:THR:HG22	2.02	0.42
34:7R:215:ALA:O	34:7R:219:LYS:HG2	2.20	0.42
34:7R:245:ARG:O	34:7R:248:LYS:HG3	2.20	0.42
35:7T:164:ARG:NH2	36:7V:63:ASP:O	2.52	0.42
2:A0:47:ASP:OD2	24:6X:136:ARG:NH2	2.38	0.42
1:A3:80:PRO:HB3	24:6Z:175:TYR:CE2	2.54	0.42
2:E9:32:PRO:HD2	22:6N:127:THR:HB	2.01	0.42
1:G2:32:PRO:HD2	24:6W:527:ASN:ND2	2.31	0.42
2:G3:65:CYS:SG	2:G3:66:ILE:N	2.92	0.42
1:G4:207:LEU:HB3	1:G4:225:LEU:HD22	2.02	0.42
2:G5:111:GLY:HA2	2:G5:114:ILE:HG22	2.01	0.42
2:G5:150:GLY:O	2:G5:153:LEU:HG	2.20	0.42
2:G7:90:GLU:OE1	2:G7:90:GLU:N	2.53	0.42
2:G7:288:VAL:HG13	2:G7:373:ARG:HD3	2.01	0.42
2:G9:195:LEU:HD11	2:G9:264:ARG:NH1	2.34	0.42
2:G9:422:ARG:HD2	2:G9:422:ARG:HA	1.81	0.42
2:H1:35:GLN:N	2:H1:35:GLN:OE1	2.52	0.42
2:H1:50:ASN:O	2:H1:64:ARG:NH2	2.53	0.42
2:H1:71:GLU:CG	2:H1:98:ASP:HB2	2.50	0.42
1:H2:272:PRO:HD3	1:H2:364:SER:HA	2.02	0.42
2:H3:223:THR:HG23	2:H3:225:THR:H	1.85	0.42
1:H4:67:ASP:OD2	1:H4:72:THR:OG1	2.28	0.42
1:H4:414:ASN:HA	1:H4:417:ASP:OD2	2.20	0.42
2:H5:317:LEU:HD11	2:H5:351:PHE:CD1	2.46	0.42
1:H6:140:GLY:O	1:H6:184:ASN:ND2	2.50	0.42
2:H7:53:PHE:HD1	2:H7:63:PRO:HA	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H7:241:SER:OG	2:H7:250:VAL:O	2.29	0.42
2:H9:139:ASN:O	2:H9:170:THR:HA	2.19	0.42
2:H9:387:ILE:HG12	2:H9:390:ARG:NH2	2.32	0.42
2:I1:100:ALA:HA	1:I2:252:LYS:HE2	2.02	0.42
2:I3:253:THR:O	2:I3:256:GLN:HB2	2.20	0.42
1:I4:356:ILE:HD13	1:I4:356:ILE:HA	1.83	0.42
1:I4:407:GLU:O	1:I4:410:GLU:HG2	2.20	0.42
2:I5:9:ILE:HD12	2:I5:150:GLY:HA3	2.02	0.42
2:I5:88:HIS:HA	2:I5:89:PRO:HD3	1.84	0.42
2:I5:235:ILE:O	2:I5:239:THR:HG23	2.19	0.42
1:I8:414:ASN:HA	1:I8:417:ASP:OD2	2.20	0.42
2:I9:88:HIS:HD2	2:I9:91:GLN:HG3	1.85	0.42
2:J1:384:ILE:HA	2:J1:387:ILE:HD12	2.02	0.42
1:J4:86:ARG:HG2	1:J4:88:ASP:H	1.85	0.42
2:J7:198:THR:HG21	2:J7:201:ALA:HB2	2.01	0.42
1:K4:273:LEU:H	1:K4:292:GLN:NE2	2.18	0.42
2:K5:66:ILE:O	2:K5:66:ILE:HG13	2.19	0.42
2:K9:14:ILE:HD11	2:K9:74:VAL:CG1	2.50	0.42
1:L0:350:LYS:HZ3	1:L0:351:SER:C	2.22	0.42
2:L7:217:LEU:HD12	2:L7:277:SER:OG	2.20	0.42
1:M4:156:ARG:HD2	1:M4:156:ARG:HA	1.82	0.42
2:M5:58:ALA:CB	37:7Y:215:HIS:N	2.81	0.42
2:N1:225:THR:HG21	29:7J:114:GLU:OE1	2.20	0.42
2:N1:306:ASP:HB3	2:N1:309:HIS:HD2	1.85	0.42
2:N5:192:HIS:CD2	2:N5:421:ALA:HA	2.53	0.42
2:N5:384:ILE:HA	2:N5:387:ILE:HD12	2.02	0.42
1:N6:417:ASP:OD1	1:N6:418:LEU:N	2.53	0.42
1:O2:3:GLU:HG3	1:O2:127:CYS:HB2	2.02	0.42
2:O3:14:ILE:HD11	2:O3:74:VAL:CG1	2.49	0.42
2:O3:21:TRP:CZ3	2:O3:63:PRO:HB3	2.54	0.42
2:O3:306:ASP:HB3	2:O3:309:HIS:CD2	2.55	0.42
1:O6:173:PRO:HG3	1:O6:380:ARG:HD2	2.01	0.42
2:O9:175:PRO:HB3	2:O9:390:ARG:NE	2.35	0.42
2:P5:123:ARG:NH2	2:P5:160:ASP:OD2	2.53	0.42
1:P6:117:LEU:HD23	1:P6:117:LEU:HA	1.83	0.42
2:P7:116:ASP:OD1	2:P7:117:LEU:N	2.51	0.42
1:P8:321:MET:HG2	1:P8:363:MET:SD	2.60	0.42
1:P8:405:GLU:HA	1:P8:408:PHE:HD2	1.84	0.42
2:Q1:31:GLN:NE2	2:Q1:37:PRO:HG3	2.35	0.42
2:Q1:337:THR:O	5:4M:22:LEU:HD11	2.20	0.42
2:Q1:429:GLU:O	2:Q1:433:GLU:HG2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q3:241:SER:OG	2:Q3:250:VAL:O	2.30	0.42
2:Q3:345:ASP:N	2:Q3:345:ASP:OD1	2.52	0.42
1:Q4:95:THR:HG23	1:Q4:96:GLY:N	2.35	0.42
2:Q9:279:GLU:HA	7:4Q:336:GLN:HE21	1.85	0.42
2:R5:284:GLU:HA	2:R5:284:GLU:OE2	2.20	0.42
2:R5:387:ILE:HG12	2:R5:390:ARG:HH22	1.85	0.42
2:R9:137:VAL:HG22	2:R9:168:GLY:HA2	2.02	0.42
2:R9:170:THR:HG21	2:R9:194:LEU:HD11	2.02	0.42
2:R9:430:LYS:HB3	2:R9:430:LYS:HE3	1.81	0.42
1:S0:113:ILE:HA	1:S0:113:ILE:HD12	1.92	0.42
1:S0:128:ASP:OD1	1:S0:128:ASP:N	2.53	0.42
1:S0:150:LEU:HA	1:S0:150:LEU:HD12	1.69	0.42
2:S1:306:ASP:HB3	2:S1:309:HIS:HD2	1.85	0.42
2:S1:405:VAL:HB	17:5V:112:VAL:HG11	2.02	0.42
1:S2:194:GLU:OE2	1:S2:414:ASN:ND2	2.48	0.42
1:S4:135:VAL:HG11	1:S4:152:ILE:HD11	2.01	0.42
1:S4:216:LYS:HG3	1:S4:275:SER:OG	2.20	0.42
1:S4:286:VAL:HB	1:S4:325:GLU:OE1	2.20	0.42
1:S4:330:MET:SD	1:S4:349:VAL:HG11	2.60	0.42
1:S6:2:ARG:HB3	1:S6:131:GLN:HB2	2.02	0.42
1:S6:246:LEU:HD22	1:S6:352:SER:HA	2.01	0.42
1:S6:359:LYS:O	31:7M:9:ARG:NH2	2.52	0.42
2:T1:90:GLU:O	2:T1:90:GLU:HG2	2.20	0.42
2:T1:217:LEU:HD21	2:T1:368:LEU:HD23	2.02	0.42
1:T2:307:HIS:CD2	17:5T:52:PRO:HB3	2.55	0.42
1:T4:164:MET:HE3	1:T4:164:MET:HB2	1.96	0.42
1:T4:174:LYS:HD2	1:T4:380:ARG:HH22	1.83	0.42
2:T5:17:GLY:HA2	2:T5:20:CYS:HB2	2.02	0.42
2:T5:102:ASN:HB3	2:T5:105:ARG:HB3	2.02	0.42
2:T5:265:ILE:HD11	2:T5:435:VAL:HG21	2.02	0.42
2:T5:414:GLU:HG2	2:T5:417:GLU:OE2	2.19	0.42
2:T7:286:LEU:HD13	2:T7:286:LEU:HA	1.87	0.42
1:T8:112:LEU:O	1:T8:116:VAL:HG23	2.20	0.42
2:U1:115:VAL:HG22	2:U1:119:LEU:HD13	2.02	0.42
2:U1:267:PHE:HB2	2:U1:384:ILE:HD12	2.02	0.42
2:U3:51:THR:HG21	2:U3:243:ARG:HG2	2.01	0.42
2:U3:203:MET:HE1	2:U3:267:PHE:HD1	1.85	0.42
1:U4:234:SER:O	1:U4:241:ARG:NH2	2.53	0.42
1:U6:130:LEU:HB2	1:U6:162:ARG:HE	1.83	0.42
2:U9:52:PHE:HZ	2:U9:239:THR:HG21	1.84	0.42
2:U9:108:TYR:HA	2:U9:112:LYS:HE3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V0:77:ARG:O	1:V0:83:GLN:NE2	2.52	0.42
1:V0:117:LEU:O	1:V0:121:ARG:HB2	2.19	0.42
1:V0:311:LEU:HD23	1:V0:311:LEU:HA	1.88	0.42
2:V1:217:LEU:HA	2:V1:217:LEU:HD23	1.82	0.42
2:V1:284:GLU:O	2:V1:285:GLN:NE2	2.53	0.42
1:V2:174:LYS:HA	1:V2:174:LYS:HD2	1.78	0.42
1:V4:61:PRO:HG2	1:V4:85:PHE:CE1	2.55	0.42
1:V6:122:LYS:NZ	1:V6:123:GLU:OE1	2.52	0.42
2:V7:11:GLN:OE1	2:V7:15:GLN:NE2	2.53	0.42
2:V7:101:ASN:HD21	2:V7:180:ALA:HB1	1.85	0.42
2:V7:244:PHE:HB2	2:V7:356:ASN:HD21	1.85	0.42
2:V7:406:HIS:CD2	1:V8:261:PRO:HD3	2.55	0.42
1:V8:309:ARG:O	1:V8:371:SER:OG	2.23	0.42
2:W1:331:SER:O	2:W1:334:THR:OG1	2.23	0.42
2:W1:358:GLN:OE1	2:W1:359:PRO:HD2	2.20	0.42
1:W6:67:ASP:OD2	1:W6:72:THR:OG1	2.23	0.42
2:W7:177:VAL:HG13	1:W8:327:ASP:HB3	2.02	0.42
1:W8:100:ASN:HB3	1:W8:103:LYS:HB2	2.01	0.42
1:W8:167:PHE:CE2	1:W8:233:MET:HG2	2.55	0.42
1:W8:167:PHE:CZ	1:W8:233:MET:HG2	2.54	0.42
1:X0:165:LEU:HD23	1:X0:165:LEU:HA	1.81	0.42
1:X2:21:TRP:CZ3	1:X2:61:PRO:HB3	2.55	0.42
1:X4:395:LEU:HD21	1:X4:405:GLU:CD	2.40	0.42
2:X5:89:PRO:HD2	2:Z1:283:HIS:ND1	2.35	0.42
2:X7:406:HIS:CD2	1:X8:261:PRO:HD3	2.55	0.42
1:X8:120:VAL:O	1:X8:123:GLU:HG3	2.19	0.42
1:X8:232:VAL:HG22	1:X8:270:PHE:HB2	2.02	0.42
1:X8:250:LEU:H	1:X8:250:LEU:CD1	2.31	0.42
1:Y0:24:VAL:HG21	1:Y0:50:TYR:CE2	2.54	0.42
1:Y0:175:VAL:HG13	2:Y1:329:ASN:ND2	2.34	0.42
2:Y1:231:ILE:O	2:Y1:234:VAL:HG12	2.20	0.42
2:Y1:286:LEU:HD11	2:Y1:372:GLN:H	1.84	0.42
1:Y2:203:ASP:O	1:Y2:207:LEU:HG	2.20	0.42
1:Y2:317:PHE:HE2	1:Y2:326:VAL:HG13	1.84	0.42
1:Y6:396:HIS:HA	1:Y6:399:THR:OG1	2.20	0.42
2:Y9:70:LEU:HG	2:Y9:145:THR:HG23	2.02	0.42
2:Y9:80:THR:HG22	2:Y9:80:THR:O	2.20	0.42
1:Z0:163:MET:HE3	1:Z0:251:ARG:HA	2.00	0.42
2:Z1:174:SER:HB3	2:Z1:177:VAL:O	2.19	0.42
1:Z6:411:ALA:O	1:Z6:415:MET:HG2	2.19	0.42
2:Z7:176:GLN:NE2	2:Z7:207:GLU:OE2	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z9:258:ASN:C	2:Z9:259:LEU:HD22	2.40	0.42
2:Z9:320:ARG:O	2:Z9:373:ARG:HA	2.20	0.42
1:0A:413:SER:HA	1:0A:416:ASN:ND2	2.33	0.42
1:0C:33:THR:O	1:0C:58:ARG:NH2	2.53	0.42
1:0E:386:THR:O	1:0E:390:ARG:HG3	2.19	0.42
2:0F:236:SER:HA	2:0F:239:THR:HG22	2.01	0.42
1:0I:131:GLN:HE21	1:0I:250:LEU:HB3	1.85	0.42
1:0I:210:ILE:HD11	1:0I:273:LEU:HD12	2.00	0.42
1:0I:385:PHE:HZ	1:0I:408:PHE:HD1	1.66	0.42
1:0K:240:LEU:HD12	1:0K:240:LEU:H	1.85	0.42
2:0L:31:GLN:HB2	2:0L:33:ASP:OD1	2.20	0.42
2:0L:305:CYS:CB	2:0L:387:ILE:HD11	2.50	0.42
1:0M:83:GLN:O	1:1C:281:TYR:OH	2.30	0.42
1:0M:257:LEU:HD23	1:0M:312:THR:HB	2.02	0.42
1:0M:290:THR:HA	1:0M:293:MET:HB2	2.02	0.42
1:0M:418:LEU:HD23	1:0M:418:LEU:HA	1.86	0.42
2:0N:5:ILE:HD11	2:0N:135:PHE:CD1	2.55	0.42
1:0O:85:PHE:HB2	1:0O:90:PHE:CZ	2.55	0.42
1:0O:194:GLU:OE1	1:0O:194:GLU:N	2.53	0.42
1:0O:244:GLY:HA3	1:0O:354:CYS:HA	2.02	0.42
1:0O:344:TRP:CE3	1:0O:345:ILE:HG13	2.54	0.42
1:0O:388:MET:CA	1:0O:388:MET:CE	2.96	0.42
1:0O:388:MET:HE3	1:0O:388:MET:HB2	1.84	0.42
2:0P:280:LYS:O	2:0P:283:HIS:HB3	2.20	0.42
2:0R:57:GLY:H	2:1H:285:GLN:NE2	2.18	0.42
1:0S:73:MET:SD	1:0S:92:PHE:CZ	3.13	0.42
1:0S:260:PHE:HB3	1:0S:262:ARG:NH2	2.34	0.42
1:0S:285:THR:O	1:0S:288:GLU:HB3	2.20	0.42
1:0U:316:LEU:HB2	1:0U:366:THR:OG1	2.20	0.42
1:0W:113:ILE:HD13	1:0W:150:LEU:CD2	2.50	0.42
1:0W:268:VAL:O	1:0W:300:MET:N	2.49	0.42
2:0X:90:GLU:HG3	2:0X:121:ARG:HH12	1.85	0.42
2:1B:196:GLU:OE2	2:1B:197:HIS:NE2	2.53	0.42
1:1C:103:LYS:HA	1:1C:107:THR:OG1	2.20	0.42
2:1D:203:MET:O	2:1D:204:LEU:HD12	2.19	0.42
2:1D:301:MET:HE1	2:1D:307:PRO:HD3	2.02	0.42
1:1E:112:LEU:O	1:1E:116:VAL:HG23	2.20	0.42
1:1E:269:GLY:HA2	1:1E:300:MET:SD	2.60	0.42
1:1E:309:ARG:H	1:1E:372:THR:HG22	1.85	0.42
1:1G:153:SER:O	1:1G:157:GLU:HG2	2.19	0.42
2:1H:396:ASP:HB2	2:1H:422:ARG:HH12	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1K:86:ARG:HG2	1:1K:88:ASP:H	1.84	0.42
2:1P:379:SER:OG	2:1P:380:ASN:N	2.53	0.42
1:1Q:95:THR:OG1	1:1Q:96:GLY:N	2.52	0.42
1:1Q:274:THR:HG21	1:1Q:282:ARG:HH11	1.85	0.42
2:1R:182:VAL:HG22	2:1R:185:TYR:HB2	2.02	0.42
2:1R:312:TYR:HD2	2:1R:343:PHE:HE1	1.67	0.42
2:1T:312:TYR:HB2	2:1T:343:PHE:HD1	1.84	0.42
1:1U:244:GLY:H	1:1U:247:ASN:HD21	1.68	0.42
2:1X:76:ASP:O	2:1X:80:THR:HG22	2.19	0.42
2:1X:108:TYR:O	2:1X:112:LYS:HD3	2.20	0.42
2:1X:175:PRO:HB2	2:1X:176:GLN:NE2	2.34	0.42
2:2B:88:HIS:HB3	2:2R:283:HIS:CG	2.54	0.42
1:2C:239:CYS:SG	1:2C:248:ALA:N	2.89	0.42
2:2D:156:ARG:HA	2:2D:159:VAL:HG12	2.02	0.42
2:2D:181:VAL:HB	1:2E:256:ASN:HD22	1.84	0.42
1:2G:86:ARG:HB3	1:2G:89:ASN:OD1	2.20	0.42
1:2G:273:LEU:H	1:2G:292:GLN:HE22	1.67	0.42
2:2H:129:CYS:SG	2:2H:130:THR:N	2.92	0.42
2:2J:123:ARG:CZ	38:8C:75:SER:HB3	2.49	0.42
1:2K:141:GLY:HA3	39:2K:502:GDP:PB	2.60	0.42
2:2L:52:PHE:CE2	2:2L:243:ARG:HD3	2.55	0.42
1:2M:164:MET:HE3	1:2M:164:MET:HB2	1.95	0.42
1:2M:367:PHE:O	1:2M:368:ILE:HD13	2.20	0.42
2:2P:179:THR:O	1:2Q:350:LYS:HD2	2.19	0.42
1:2Q:154:LYS:HD3	1:2Q:154:LYS:HA	1.87	0.42
1:2S:62:ARG:HG3	1:2S:123:GLU:OE2	2.19	0.42
1:2S:145:SER:OG	1:2S:146:GLY:N	2.53	0.42
2:2T:372:GLN:NE2	10:5C:267:LEU:HD11	2.34	0.42
1:2W:128:ASP:OD1	1:2W:128:ASP:N	2.46	0.42
2:2X:271:SER:OG	2:2X:272:TYR:N	2.53	0.42
1:3M:177:ASP:OD1	2:3N:353:CYS:HB2	2.20	0.42
2:3N:156:ARG:HA	2:3N:159:VAL:HG12	2.02	0.42
2:3N:406:HIS:HA	2:3N:409:VAL:HG12	2.01	0.42
1:3O:292:GLN:HG2	1:3O:298:ASN:HD22	1.83	0.42
2:3R:76:ASP:HA	2:3R:79:ARG:HB2	2.02	0.42
1:3S:46:ARG:HD3	1:3S:46:ARG:HA	1.84	0.42
2:3T:53:PHE:HB3	2:3T:61:HIS:HB3	2.02	0.42
3:3V:282:GLU:OE2	3:3V:290:PHE:HB2	2.20	0.42
4:3Y:30:SER:H	4:3Y:57:THR:HG22	1.83	0.42
4:4G:27:LYS:HE3	4:4G:27:LYS:HB3	1.94	0.42
4:4G:30:SER:H	4:4G:57:THR:HG22	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4H:282:GLU:OE2	3:4H:290:PHE:HB2	2.20	0.42
4:4I:30:SER:H	4:4I:57:THR:HG22	1.83	0.42
3:4J:145:TRP:CD1	3:4J:149:ILE:HD11	2.55	0.42
6:4N:467:ALA:HA	6:4N:470:LYS:NZ	2.34	0.42
7:4U:164:ARG:O	7:4U:167:GLU:HG3	2.19	0.42
9:4Y:440:VAL:N	9:4Y:441:PRO:HD2	2.35	0.42
10:5B:321:LYS:HA	10:5B:321:LYS:HD2	1.88	0.42
12:5F:46:ASP:HB3	12:5F:48:PRO:HD2	2.02	0.42
12:5F:273:ARG:O	12:5F:273:ARG:HG3	2.19	0.42
14:5L:576:LEU:HD11	14:5L:578:LYS:HE3	2.02	0.42
14:5M:24:HIS:CB	14:5M:29:THR:HB	2.50	0.42
14:5M:470:GLY:N	14:5M:490:ASP:OD1	2.52	0.42
14:5M:500:THR:O	14:5M:502:LYS:N	2.53	0.42
14:5M:576:LEU:HD11	14:5M:578:LYS:HE3	2.02	0.42
14:5N:470:GLY:N	14:5N:490:ASP:OD1	2.52	0.42
18:5Z:128:GLN:CD	18:5Z:129:PRO:HD3	2.39	0.42
18:6B:128:GLN:CD	18:6B:129:PRO:HD3	2.39	0.42
20:6F:131:GLU:CD	20:6F:131:GLU:N	2.73	0.42
22:6K:157:VAL:HG21	22:6K:225:ALA:HB2	2.02	0.42
22:6L:165:MET:HE2	22:6L:218:LEU:HD23	2.01	0.42
22:6P:10:PHE:HB3	22:6P:15:TRP:CD1	2.55	0.42
22:6P:157:VAL:HG11	22:6P:225:ALA:HB2	2.00	0.42
24:6W:592:ASP:OD1	24:6W:592:ASP:N	2.52	0.42
24:6X:438:LEU:HD22	24:6X:476:MET:HG2	2.00	0.42
24:6X:574:ARG:HG2	24:6X:630:LEU:HD21	2.01	0.42
24:6Y:274:ARG:HB3	24:6Y:372:ASP:OD2	2.20	0.42
24:6Z:474:PHE:CZ	24:6Z:481:LEU:HD22	2.55	0.42
24:7A:112:GLU:HB2	24:7A:209:PRO:HG2	2.01	0.42
26:7F:56:LEU:HD13	26:7F:56:LEU:HA	1.88	0.42
29:7J:167:ILE:CD1	29:7J:167:ILE:O	2.68	0.42
30:7K:173:GLU:HG2	30:7K:173:GLU:O	2.19	0.42
30:7K:379:PHE:O	30:7K:437:VAL:HG12	2.19	0.42
38:8A:117:TRP:O	38:8A:121:LEU:HG	2.20	0.42
2:2:44:GLY:HA3	24:6T:124:TYR:OH	2.19	0.42
1:3:11:GLN:HB3	39:3:502:GDP:O1A	2.19	0.42
1:9:436:PHE:CZ	3:4D:252:LYS:HB2	2.55	0.42
2:B4:357:TYR:HE1	24:6W:221:ARG:O	2.02	0.42
1:E0:276:ARG:HB3	24:6T:314:GLY:HA3	2.02	0.42
1:E4:33:THR:CG2	24:6V:403:PRO:HB2	2.50	0.42
2:F9:12:ALA:HB2	41:G0:501:GTP:C8	2.54	0.42
1:G0:219:THR:HB	2:G1:324:VAL:HG11	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G2:70:PRO:N	1:G2:92:PHE:HZ	2.18	0.42
1:G2:403:MET:HE3	1:G2:403:MET:HB2	1.77	0.42
2:G3:219:ILE:HG23	22:6M:175:ALA:HB1	2.02	0.42
2:G3:312:TYR:HB2	2:G3:343:PHE:HD1	1.84	0.42
2:G7:47:ASP:N	2:G7:47:ASP:OD1	2.52	0.42
2:G9:176:GLN:NE2	2:G9:207:GLU:HG2	2.35	0.42
2:G9:291:ILE:HD12	2:G9:375:VAL:HG23	2.02	0.42
2:H3:119:LEU:O	2:H3:122:ILE:HG22	2.20	0.42
2:H7:157:LEU:HD23	2:H7:157:LEU:HA	1.80	0.42
2:H7:271:SER:HA	2:H7:302:MET:HG2	2.02	0.42
2:H9:276:ILE:HD13	2:H9:276:ILE:HA	1.89	0.42
1:I0:113:ILE:HG21	1:I0:150:LEU:HD22	2.02	0.42
1:I4:396:HIS:HE1	1:I4:397:TRP:CZ2	2.38	0.42
2:I5:9:ILE:HG22	2:I5:68:LEU:HD11	2.02	0.42
2:I5:312:TYR:HB2	2:I5:343:PHE:HD1	1.85	0.42
2:I7:33:ASP:OD1	2:I7:35:GLN:NE2	2.49	0.42
2:I7:109:THR:OG1	2:I7:411:GLU:OE2	2.37	0.42
2:I7:138:PHE:CD1	2:I7:169:PHE:HB2	2.54	0.42
1:I8:364:SER:OG	1:I8:365:ALA:N	2.53	0.42
2:I9:96:LYS:HD2	1:J0:129:CYS:SG	2.60	0.42
2:J1:31:GLN:HE21	2:J1:37:PRO:HG3	1.84	0.42
2:J1:79:ARG:O	2:J1:84:ARG:HG2	2.20	0.42
2:J3:266:HIS:ND1	2:J3:266:HIS:O	2.51	0.42
1:J8:39:ASP:O	29:7J:386:HIS:ND1	2.44	0.42
1:J8:414:ASN:HA	1:J8:417:ASP:OD2	2.20	0.42
2:J9:165:SER:OG	2:J9:256:GLN:NE2	2.53	0.42
2:K1:79:ARG:O	2:K1:84:ARG:HG2	2.19	0.42
1:K6:250:LEU:HD23	1:K6:250:LEU:HA	1.87	0.42
1:K6:260:PHE:HB2	1:K6:263:LEU:HD23	2.01	0.42
1:K8:212:PHE:HZ	2:K9:326:LYS:HD3	1.84	0.42
2:K9:21:TRP:CZ3	2:K9:63:PRO:HB3	2.55	0.42
1:L0:91:VAL:HG11	1:L0:116:VAL:HG12	2.02	0.42
1:L0:121:ARG:NH2	1:L0:158:GLU:OE2	2.46	0.42
2:L1:8:HIS:CD2	2:L1:138:PHE:HD2	2.38	0.42
2:L3:123:ARG:NH2	2:L3:160:ASP:OD2	2.52	0.42
2:L5:155:GLU:O	2:L5:158:SER:OG	2.30	0.42
2:L5:399:TYR:O	2:L5:402:ARG:NH1	2.51	0.42
1:L6:108:GLU:HA	1:L6:111:GLU:OE2	2.20	0.42
1:L6:204:ASN:OD1	39:L6:502:GDP:O2'	2.38	0.42
2:L7:115:VAL:HG21	2:L7:152:LEU:HG	2.01	0.42
2:L9:88:HIS:HB2	1:N6:281:TYR:CZ	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M1:5:ILE:HD11	2:M1:135:PHE:CE1	2.54	0.42
2:M1:122:ILE:HD13	2:M1:157:LEU:HD11	2.02	0.42
1:M2:362:LYS:HA	1:M2:362:LYS:HD2	1.60	0.42
2:M3:201:ALA:O	2:M3:268:MET:HE2	2.20	0.42
1:M4:362:LYS:HE3	1:M4:363:MET:HE2	2.02	0.42
2:M5:174:SER:HB3	2:M5:177:VAL:O	2.20	0.42
1:M6:46:ARG:HH12	37:7Y:115:CYS:HG	1.68	0.42
2:M9:137:VAL:HG22	2:M9:168:GLY:HA2	2.02	0.42
2:M9:217:LEU:HD21	2:M9:368:LEU:HD23	2.02	0.42
2:M9:422:ARG:O	2:M9:422:ARG:HD2	2.20	0.42
1:N0:138:SER:O	1:N0:139:LEU:HD23	2.20	0.42
2:N3:7:ILE:HD11	2:N3:137:VAL:HG12	2.01	0.42
2:N3:320:ARG:HB3	2:N3:358:GLN:O	2.20	0.42
1:N8:273:LEU:H	1:N8:292:GLN:HE22	1.68	0.42
2:N9:188:VAL:HG23	2:N9:189:LEU:HD12	2.01	0.42
2:N9:305:CYS:HB3	2:N9:387:ILE:HD11	2.02	0.42
1:O0:203:ASP:OD2	1:O0:301:CYS:HA	2.20	0.42
2:O1:132:LEU:HD11	2:O1:134:GLY:O	2.20	0.42
2:O7:54:SER:O	2:O7:61:HIS:HA	2.20	0.42
1:O8:12:CYS:SG	1:O8:138:SER:HB2	2.60	0.42
1:P6:173:PRO:HB3	1:P6:384:GLN:HE22	1.84	0.42
2:P7:113:GLU:N	2:P7:113:GLU:OE2	2.53	0.42
2:P9:313:MET:N	2:P9:380:ASN:O	2.43	0.42
2:Q3:176:GLN:HG2	2:Q3:207:GLU:OE1	2.19	0.42
1:Q4:334:GLN:HE22	1:Q4:347:ASN:HA	1.85	0.42
1:Q6:108:GLU:OE1	1:Q6:108:GLU:N	2.53	0.42
1:Q8:260:PHE:HE2	1:Q8:262:ARG:HD3	1.84	0.42
1:Q8:285:THR:HB	1:Q8:287:PRO:HD2	2.02	0.42
1:R2:321:MET:HG2	1:R2:363:MET:SD	2.59	0.42
1:R4:275:SER:OG	19:6E:185:GLU:OE1	2.33	0.42
1:R4:356:ILE:HD13	1:R4:356:ILE:HA	1.92	0.42
1:S0:114:ASP:OD1	1:S0:115:SER:N	2.53	0.42
1:S2:192:LEU:HD23	1:S2:192:LEU:HA	1.91	0.42
1:S4:287:PRO:CA	1:S4:329:GLN:HE22	2.30	0.42
1:S8:8:GLN:CD	1:S8:17:GLY:HA3	2.39	0.42
2:T1:245:ASP:HB3	7:4U:5:VAL:HG13	2.01	0.42
1:T2:54:ALA:HB3	1:T2:58:ARG:HB3	2.01	0.42
1:T2:102:ALA:HB2	1:T2:403:MET:HE3	2.01	0.42
1:T2:325:GLU:HA	1:T2:328:GLU:HG2	2.02	0.42
1:T2:344:TRP:CE3	1:T2:345:ILE:HG13	2.54	0.42
2:T3:62:VAL:HA	2:T3:63:PRO:HD3	1.93	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T4:2:ARG:HE	1:T4:240:LEU:HD22	1.85	0.42
1:T4:232:VAL:O	1:T4:236:ILE:HG12	2.20	0.42
1:T6:117:LEU:HA	1:T6:117:LEU:HD23	1.83	0.42
1:T8:382:SER:HB2	1:T8:415:MET:SD	2.60	0.42
2:U1:111:GLY:HA2	2:U1:114:ILE:HG22	2.02	0.42
2:U3:33:ASP:OD2	2:U3:34:GLY:N	2.53	0.42
1:U4:77:ARG:HH21	1:U4:90:PHE:HD2	1.68	0.42
1:U4:289:LEU:HD11	1:U4:363:MET:HB3	2.02	0.42
2:U9:87:PHE:HB3	2:U9:92:LEU:HD21	2.02	0.42
2:U9:88:HIS:HB3	2:U9:91:GLN:HG2	2.02	0.42
2:U9:102:ASN:HB3	2:U9:105:ARG:CB	2.50	0.42
2:U9:334:THR:HA	2:U9:337:THR:HG22	2.02	0.42
1:V0:309:ARG:H	1:V0:372:THR:HG22	1.84	0.42
1:V2:22:GLU:HG2	1:V2:81:TYR:HD2	1.85	0.42
1:V2:289:LEU:HD11	1:V2:363:MET:HG2	2.02	0.42
2:V3:205:ASP:OD2	2:V3:303:VAL:HG13	2.19	0.42
1:V4:117:LEU:HA	1:V4:117:LEU:HD23	1.88	0.42
1:V6:97:ALA:HB3	1:V6:143:THR:HG22	2.02	0.42
2:W1:35:GLN:N	2:W1:35:GLN:OE1	2.53	0.42
2:W1:288:VAL:HG11	2:W1:323:VAL:HG13	2.01	0.42
2:W3:89:PRO:HD3	2:X9:283:HIS:CG	2.55	0.42
2:W3:116:ASP:OD1	2:W3:156:ARG:NH1	2.52	0.42
2:W3:139:ASN:OD1	2:W3:139:ASN:N	2.52	0.42
2:W3:286:LEU:HD12	2:W3:286:LEU:HA	1.89	0.42
1:W6:379:LYS:HG3	1:W6:419:VAL:HG11	2.02	0.42
2:W7:79:ARG:O	2:W7:84:ARG:HG2	2.19	0.42
2:W7:312:TYR:HB2	2:W7:343:PHE:CD1	2.55	0.42
2:W7:401:LYS:HE3	2:W7:401:LYS:HB3	1.82	0.42
1:W8:4:ILE:HB	1:W8:50:TYR:HE1	1.83	0.42
2:W9:88:HIS:HE2	2:W9:121:ARG:NH2	2.13	0.42
1:X0:387:ALA:HA	1:X0:390:ARG:HH21	1.85	0.42
1:X4:249:ASP:OD2	1:X4:252:LYS:HB2	2.20	0.42
1:X8:292:GLN:HG2	1:X8:298:ASN:HD22	1.84	0.42
1:Y0:244:GLY:HA3	1:Y0:354:CYS:HA	2.01	0.42
1:Y2:86:ARG:HG2	1:Y2:88:ASP:H	1.84	0.42
2:Y5:395:PHE:CE2	2:Y5:422:ARG:HD3	2.55	0.42
1:Y8:11:GLN:HG2	1:Y8:12:CYS:N	2.35	0.42
2:Y9:186:ASN:O	2:Y9:190:SER:OG	2.31	0.42
1:Z0:21:TRP:CZ3	1:Z0:61:PRO:HB3	2.55	0.42
1:Z0:58:ARG:HH11	1:Z0:84:ILE:HA	1.85	0.42
1:Z0:156:ARG:HD3	1:Z0:164:MET:CE	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z0:198:GLU:HA	1:Z0:264:HIS:HB2	2.02	0.42
1:Z0:254:ALA:HB1	1:Z0:258:ILE:HD12	2.02	0.42
2:Z1:265:ILE:HG23	2:Z1:432:PHE:CZ	2.55	0.42
1:Z2:66:MET:HE2	1:Z2:147:MET:HG3	2.02	0.42
1:Z4:114:ASP:N	1:Z4:114:ASP:OD1	2.53	0.42
1:Z6:272:PRO:O	1:Z6:273:LEU:HD23	2.20	0.42
1:Z8:232:VAL:HG22	1:Z8:270:PHE:HB2	2.02	0.42
2:0B:11:GLN:HB3	41:0C:501:GTP:PA	2.60	0.42
1:0C:67:ASP:OD2	1:0C:72:THR:OG1	2.37	0.42
1:0C:249:ASP:OD1	1:0C:252:LYS:N	2.45	0.42
1:0G:61:PRO:HG2	1:0G:85:PHE:CE1	2.54	0.42
1:0I:95:THR:OG1	1:0I:96:GLY:N	2.53	0.42
1:0I:297:LYS:HD3	1:0I:297:LYS:HA	1.83	0.42
2:0J:68:LEU:HA	2:0J:93:ILE:O	2.19	0.42
2:0J:147:SER:OG	2:0J:190:SER:HB3	2.20	0.42
1:0K:15:GLN:HB3	1:0K:226:ASN:ND2	2.35	0.42
1:0K:148:GLY:O	1:0K:151:LEU:HG	2.20	0.42
1:0K:313:ALA:HA	1:0K:369:GLY:HA2	2.02	0.42
1:0M:214:THR:OG1	1:0M:215:LEU:N	2.53	0.42
1:0M:388:MET:N	1:0M:388:MET:HE2	2.35	0.42
2:0N:147:SER:OG	2:0N:148:GLY:N	2.53	0.42
1:0Q:60:VAL:HG12	1:1G:281:TYR:HD1	1.85	0.42
2:0R:320:ARG:O	2:0R:373:ARG:HA	2.20	0.42
1:0S:103:LYS:NZ	1:0S:108:GLU:HG2	2.34	0.42
1:0S:156:ARG:HA	1:0S:156:ARG:HD2	1.87	0.42
1:0S:314:SER:HB2	1:0S:368:ILE:CG2	2.49	0.42
1:0U:200:MET:HG2	1:0U:202:LEU:CD2	2.49	0.42
1:0U:337:ASN:HB3	1:0U:340:TYR:HD2	1.85	0.42
2:0V:205:ASP:OD2	2:0V:303:VAL:HG13	2.20	0.42
2:0V:253:THR:HA	2:0V:256:GLN:NE2	2.35	0.42
2:0V:313:MET:HB3	2:0V:380:ASN:HB3	2.01	0.42
2:0X:2:ARG:HB2	2:0X:242:LEU:HD11	2.02	0.42
2:0X:178:SER:HB3	2:0X:183:GLU:OE2	2.20	0.42
1:0Y:267:MET:SD	1:0Y:303:ALA:HB3	2.60	0.42
2:1B:403:ALA:HB2	1:1C:344:TRP:HZ3	1.85	0.42
2:1D:271:SER:OG	2:1D:300:SER:O	2.24	0.42
2:1F:93:ILE:O	2:1F:93:ILE:HG22	2.19	0.42
2:1H:434:GLU:O	2:1H:437:ALA:HB3	2.20	0.42
1:1K:8:GLN:CD	1:1K:17:GLY:HA3	2.40	0.42
2:1L:121:ARG:NH1	2:1L:121:ARG:CG	2.63	0.42
1:1M:257:LEU:HD21	1:1M:314:SER:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1P:21:TRP:CZ3	2:1P:63:PRO:HB3	2.55	0.42
2:1R:58:ALA:N	10:5B:156:TYR:CE2	2.88	0.42
2:1R:121:ARG:HD2	2:1R:125:LEU:HG	2.01	0.42
1:1U:374:ILE:O	1:1U:377:MET:HG3	2.20	0.42
1:1W:72:THR:O	1:1W:75:SER:OG	2.26	0.42
1:1W:405:GLU:HA	1:1W:408:PHE:HD2	1.84	0.42
2:1X:35:GLN:HB3	2:1X:59:GLY:O	2.19	0.42
1:2A:68:LEU:HD23	1:2A:68:LEU:HA	1.83	0.42
1:2A:205:GLU:HG2	1:2A:206:ALA:N	2.34	0.42
2:2B:56:THR:HG23	2:2B:60:LYS:HB3	2.02	0.42
2:2B:120:ASP:OD1	38:8A:73:TRP:NE1	2.52	0.42
1:2C:391:ARG:HG3	2:2D:346:TRP:CG	2.55	0.42
2:2H:88:HIS:HE1	2:2H:90:GLU:HB3	1.83	0.42
1:2I:86:ARG:HD3	1:2I:88:ASP:OD1	2.19	0.42
2:2J:174:SER:HB3	2:2J:177:VAL:O	2.18	0.42
2:2J:276:ILE:HG23	2:2J:280:LYS:HB2	2.01	0.42
1:2K:274:THR:OG1	1:2K:282:ARG:NH1	2.52	0.42
1:2M:6:HIS:CE1	1:2M:8:GLN:HG2	2.55	0.42
1:2M:224:ASP:OD2	1:2M:225:LEU:N	2.53	0.42
2:2P:175:PRO:HG2	2:2P:176:GLN:OE1	2.20	0.42
2:2P:370:LYS:HE3	2:2P:370:LYS:HB3	1.88	0.42
1:2Q:253:LEU:HD21	1:2Q:316:LEU:HD21	2.01	0.42
2:2R:125:LEU:HD12	2:2R:125:LEU:HA	1.84	0.42
2:2R:304:LYS:HE2	38:8A:68:THR:HG21	2.01	0.42
2:2T:145:THR:OG1	41:2U:501:GTP:O1B	2.37	0.42
2:2T:298:PRO:HD3	38:8A:25:ILE:HG13	2.02	0.42
2:2V:313:MET:SD	2:2V:344:VAL:HG11	2.60	0.42
2:2V:397:LEU:HD23	2:2V:397:LEU:HA	1.88	0.42
1:2W:356:ILE:HD13	1:2W:356:ILE:HA	1.93	0.42
1:2Y:22:GLU:HG2	1:2Y:81:TYR:HB2	2.02	0.42
1:2Y:170:VAL:HG21	1:2Y:201:VAL:HG13	2.02	0.42
2:2Z:224:TYR:O	2:2Z:228:ASN:ND2	2.53	0.42
2:2Z:272:TYR:HB3	2:2Z:275:ILE:HD11	2.02	0.42
2:2Z:397:LEU:HD23	2:2Z:397:LEU:HA	1.89	0.42
1:3A:80:PRO:HD3	10:5D:139:MET:SD	2.60	0.42
2:3B:262:TYR:CB	2:3B:265:ILE:HD12	2.50	0.42
1:3G:177:ASP:O	2:3H:352:LYS:HD2	2.20	0.42
2:3H:203:MET:O	2:3H:204:LEU:HD12	2.20	0.42
1:3I:11:GLN:N	39:3I:502:GDP:O2B	2.38	0.42
1:3I:208:TYR:CE1	1:3I:225:LEU:HD11	2.51	0.42
2:3J:9:ILE:HG22	2:3J:146:GLY:HA2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3J:79:ARG:NH1	2:3J:94:SER:OG	2.53	0.42
1:3M:67:ASP:OD2	1:3M:68:LEU:N	2.49	0.42
1:3O:113:ILE:HG12	1:3O:150:LEU:HD22	2.02	0.42
1:3Q:70:PRO:N	1:3Q:92:PHE:HZ	2.16	0.42
1:3S:166:THR:HG1	1:3S:199:CYS:HB2	1.85	0.42
1:3S:186:THR:HG21	1:3S:385:PHE:CG	2.54	0.42
3:3V:15:ARG:HB2	3:3V:19:LEU:HD12	2.01	0.42
3:3Z:282:GLU:OE2	3:3Z:290:PHE:HB2	2.20	0.42
4:4A:30:SER:H	4:4A:57:THR:HG22	1.83	0.42
3:4B:282:GLU:OE2	3:4B:290:PHE:HB2	2.20	0.42
3:4D:282:GLU:OE2	3:4D:290:PHE:HB2	2.20	0.42
4:4E:30:SER:H	4:4E:57:THR:HG22	1.83	0.42
3:4F:282:GLU:OE2	3:4F:290:PHE:HB2	2.20	0.42
6:4O:268:ARG:HA	6:4O:271:ARG:HD2	2.01	0.42
6:4P:138:LYS:HA	6:4P:141:VAL:HG22	2.01	0.42
7:4R:100:TRP:O	7:4R:104:ARG:HB2	2.20	0.42
8:4W:463:THR:HG22	8:4W:464:VAL:N	2.35	0.42
9:4Z:67:GLU:OE1	9:4Z:70:ARG:NH1	2.53	0.42
10:5C:193:VAL:O	10:5C:197:GLU:HG2	2.19	0.42
10:5C:348:ARG:O	10:5C:352:GLU:HG2	2.19	0.42
12:5F:304:ARG:HD3	12:7B:7:MET:HE3	2.02	0.42
14:5L:470:GLY:N	14:5L:490:ASP:OD1	2.52	0.42
14:5L:484:CYS:SG	14:5L:496:TRP:HB2	2.59	0.42
14:5L:500:THR:O	14:5L:502:LYS:N	2.53	0.42
14:5M:484:CYS:SG	14:5M:496:TRP:HB2	2.59	0.42
14:5N:24:HIS:CB	14:5N:29:THR:HB	2.50	0.42
14:5N:500:THR:O	14:5N:502:LYS:N	2.53	0.42
14:5N:576:LEU:HD11	14:5N:578:LYS:HE3	2.02	0.42
17:5S:205:SER:O	17:5S:209:LYS:HE2	2.19	0.42
17:5V:207:VAL:HG22	17:5V:211:ARG:NH1	2.34	0.42
18:6A:128:GLN:CD	18:6A:129:PRO:HD3	2.39	0.42
18:6C:128:GLN:CD	18:6C:129:PRO:HD3	2.39	0.42
19:6E:59:LEU:HD12	19:6E:60:GLY:H	1.85	0.42
20:6F:181:ARG:NH1	20:6F:243:TYR:OH	2.53	0.42
22:6O:17:ILE:HD13	22:6O:17:ILE:HA	1.93	0.42
22:6P:101:ASN:N	22:6P:101:ASN:OD1	2.50	0.42
24:6V:536:ASP:HB3	24:6V:539:THR:HG23	2.02	0.42
24:6X:112:GLU:CD	24:6X:210:VAL:HG23	2.41	0.42
24:6X:514:TYR:C	24:6X:517:LEU:HD12	2.35	0.42
24:6Y:152:ARG:HD3	24:6Y:160:PHE:CG	2.55	0.42
24:6Y:435:LEU:O	24:6Y:439:MET:HG2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:6Y:536:ASP:OD1	24:6Y:537:GLU:N	2.52	0.42
24:6Y:606:ARG:O	24:6Y:610:ILE:HG13	2.20	0.42
24:6Z:415:THR:HG23	24:6Z:418:ASP:H	1.85	0.42
24:6Z:484:GLU:HG3	24:6Z:484:GLU:O	2.19	0.42
24:7A:6:PRO:HD3	31:7N:84:TYR:CD1	2.49	0.42
24:7A:140:SER:HB2	24:7A:142:ILE:HG12	2.01	0.42
27:7G:32:GLN:HG2	27:7G:32:GLN:H	1.72	0.42
27:7G:49:HIS:CD2	27:7G:50:GLU:HG3	2.55	0.42
29:7I:106:THR:O	29:7I:106:THR:HG23	2.20	0.42
29:7J:274:TYR:CD1	29:7J:279:ALA:HB2	2.55	0.42
30:7K:69:HIS:CG	30:7K:70:PRO:HD2	2.55	0.42
33:7Q:157:LEU:HD23	33:7Q:157:LEU:HA	1.85	0.42
28:7X:314:GLN:O	28:7X:317:GLU:HG3	2.20	0.42
38:8B:166:GLU:N	38:8B:166:GLU:CD	2.73	0.42
38:8B:171:ASP:O	38:8B:173:ALA:N	2.53	0.42
38:8D:62:THR:OG1	38:8D:63:VAL:N	2.51	0.42
1:A3:44:LEU:CD2	18:6C:84:ARG:HH22	2.30	0.41
1:B8:279:GLN:NE2	24:6Y:108:GLU:O	2.52	0.41
2:C5:280:LYS:HZ1	18:5X:166:HIS:HB3	1.85	0.41
1:C6:359:LYS:O	24:6U:336:THR:HG23	2.19	0.41
1:E2:276:ARG:HB3	24:6U:314:GLY:HA3	2.02	0.41
1:E6:53:GLU:HB2	22:6L:255:PHE:CZ	2.54	0.41
1:F6:37:HIS:NE2	24:6T:458:HIS:HE1	2.17	0.41
1:G2:108:GLU:HA	1:G2:111:GLU:OE2	2.19	0.41
1:G2:175:VAL:HG12	2:G3:329:ASN:OD1	2.20	0.41
1:G6:95:THR:HG23	1:G6:96:GLY:H	1.85	0.41
1:G6:156:ARG:NH1	1:G6:197:ASP:OD1	2.53	0.41
2:G7:15:GLN:HB3	2:G7:228:ASN:HD21	1.85	0.41
2:G7:212:ILE:O	2:G7:216:SER:OG	2.30	0.41
2:G7:221:ARG:NH1	22:6O:177:LEU:O	2.53	0.41
2:G7:242:LEU:HD12	2:G7:252:ILE:HG12	2.02	0.41
2:G7:289:ALA:HA	2:G7:331:SER:OG	2.20	0.41
1:G8:55:THR:HG23	1:I4:282:ARG:O	2.19	0.41
1:G8:311:LEU:HD21	1:G8:372:THR:HB	2.01	0.41
1:H2:77:ARG:HH21	1:H2:90:PHE:HD2	1.68	0.41
1:H2:286:VAL:CG2	1:H2:287:PRO:HD3	2.50	0.41
2:H7:170:THR:HG21	2:H7:194:LEU:HD11	2.02	0.41
1:H8:172:SER:HB3	1:H8:175:VAL:CG2	2.49	0.41
1:I4:289:LEU:HD23	1:I4:365:ALA:HB2	2.00	0.41
2:I5:35:GLN:HB3	2:I5:59:GLY:O	2.20	0.41
1:I8:249:ASP:OD2	1:I8:252:LYS:N	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I9:139:ASN:O	2:I9:170:THR:HA	2.20	0.41
2:I9:271:SER:OG	2:I9:377:MET:HB3	2.20	0.41
2:J1:317:LEU:HB3	2:J1:319:TYR:HE1	1.85	0.41
2:J5:88:HIS:HB3	2:L1:283:HIS:CG	2.55	0.41
2:J5:167:LEU:HD13	2:J5:200:VAL:HB	2.01	0.41
1:J8:163:MET:HB3	1:J8:250:LEU:HD22	2.03	0.41
1:J8:190:HIS:CD2	1:J8:411:ALA:HA	2.54	0.41
1:J8:207:LEU:HB3	1:J8:225:LEU:HD22	2.02	0.41
2:J9:21:TRP:HZ2	2:J9:65:CYS:HB3	1.85	0.41
2:J9:256:GLN:N	2:J9:256:GLN:OE1	2.53	0.41
1:K0:19:LYS:HE3	1:K0:19:LYS:HB3	1.90	0.41
2:K1:320:ARG:O	2:K1:373:ARG:HA	2.19	0.41
1:K6:67:ASP:N	1:K6:67:ASP:OD1	2.52	0.41
2:K7:3:GLU:HB2	2:K7:129:CYS:SG	2.60	0.41
1:K8:5:VAL:HG12	1:K8:133:PHE:CD1	2.55	0.41
1:K8:86:ARG:HG2	1:K8:88:ASP:H	1.85	0.41
2:K9:205:ASP:O	2:K9:209:ILE:HG13	2.19	0.41
2:K9:282:TYR:N	2:K9:282:TYR:HD2	2.18	0.41
1:L0:2:ARG:HB3	1:L0:131:GLN:HB2	2.02	0.41
2:L1:328:VAL:HG11	2:L1:355:ILE:HD11	2.02	0.41
2:L3:62:VAL:HA	2:L3:63:PRO:HD3	1.85	0.41
2:L7:165:SER:HB2	2:L7:256:GLN:NE2	2.35	0.41
1:M0:52:ASN:HD22	1:M0:86:ARG:HH21	1.67	0.41
1:M2:190:HIS:NE2	1:M2:414:ASN:OD1	2.53	0.41
1:M4:221:THR:HG21	30:7K:156:ASP:HB3	2.02	0.41
2:M5:224:TYR:OH	1:M6:323:THR:HG21	2.20	0.41
1:M6:396:HIS:CD2	2:M7:263:PRO:HD3	2.55	0.41
2:M7:9:ILE:HD13	2:M7:150:GLY:HA2	2.02	0.41
2:M7:26:LEU:HD21	2:M7:363:VAL:HG12	2.02	0.41
2:M7:115:VAL:HG22	2:M7:119:LEU:HD13	2.01	0.41
2:N1:72:PRO:HD2	1:N2:2:ARG:NH1	2.34	0.41
2:N1:247:ALA:HB2	2:N1:357:TYR:CZ	2.55	0.41
2:N5:88:HIS:CE1	2:N5:90:GLU:H	2.38	0.41
2:N5:269:LEU:HD11	2:N5:384:ILE:HG13	2.02	0.41
1:N6:278:SER:HB2	1:N6:281:TYR:CD2	2.55	0.41
2:N7:88:HIS:ND1	2:N7:89:PRO:HD2	2.35	0.41
1:N8:390:ARG:HB3	2:N9:346:TRP:CZ3	2.44	0.41
1:O2:20:PHE:HA	1:O2:230:SER:OG	2.19	0.41
1:O2:344:TRP:CE3	1:O2:345:ILE:HG13	2.54	0.41
2:O3:155:GLU:HG2	2:O3:197:HIS:NE2	2.35	0.41
2:O3:219:ILE:O	2:O3:219:ILE:HG13	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O4:125:GLU:OE2	1:O4:159:TYR:OH	2.38	0.41
2:O5:53:PHE:HB3	2:O5:61:HIS:HB3	2.01	0.41
2:O7:121:ARG:HA	2:O7:121:ARG:HD2	1.85	0.41
1:O8:22:GLU:HG2	1:O8:81:TYR:CD2	2.55	0.41
1:P4:100:ASN:HB3	1:P4:103:LYS:HB2	2.02	0.41
1:P6:165:LEU:HD23	1:P6:250:LEU:HD13	2.02	0.41
2:P7:266:HIS:O	2:P7:266:HIS:ND1	2.52	0.41
1:P8:375:GLN:HB2	1:P8:419:VAL:HG13	2.02	0.41
2:Q1:289:ALA:HA	2:Q1:331:SER:OG	2.20	0.41
2:Q1:290:GLU:OE1	2:Q1:290:GLU:N	2.44	0.41
1:Q2:73:MET:CE	1:Q2:90:PHE:HB3	2.50	0.41
2:Q3:320:ARG:O	2:Q3:373:ARG:HA	2.19	0.41
1:Q4:311:LEU:HA	1:Q4:311:LEU:HD23	1.71	0.41
1:Q6:42:LEU:HD23	1:Q6:42:LEU:HA	1.81	0.41
1:Q6:387:ALA:HA	1:Q6:390:ARG:HH21	1.85	0.41
1:Q8:46:ARG:HG3	1:Q8:46:ARG:O	2.20	0.41
1:Q8:193:VAL:HG23	1:Q8:194:GLU:OE1	2.20	0.41
2:Q9:163:LYS:HA	2:Q9:163:LYS:HD3	1.77	0.41
2:Q9:325:PRO:HA	2:Q9:328:VAL:HG12	2.01	0.41
1:R0:95:THR:HG23	1:R0:96:GLY:H	1.85	0.41
2:R1:361:THR:OG1	2:R1:362:VAL:N	2.53	0.41
2:R7:320:ARG:O	2:R7:373:ARG:HA	2.21	0.41
2:R9:431:ASP:OD1	17:5U:87:VAL:HG21	2.20	0.41
1:S0:320:ARG:CZ	12:5F:108:ASN:HD22	2.33	0.41
2:S1:397:LEU:HD23	2:S1:397:LEU:HA	1.86	0.41
1:S2:405:GLU:HA	1:S2:408:PHE:HD2	1.84	0.41
1:S4:174:LYS:HB3	13:5H:14:PHE:HE2	1.84	0.41
2:S5:14:ILE:HD11	2:S5:74:VAL:CG1	2.48	0.41
1:S6:107:THR:OG1	1:S6:108:GLU:OE1	2.26	0.41
1:S6:190:HIS:HE2	1:S6:410:GLU:HG2	1.84	0.41
1:T0:249:ASP:H	1:T0:252:LYS:HE3	1.85	0.41
1:T0:335:ASN:O	1:T0:338:SER:OG	2.35	0.41
2:T5:14:ILE:HD11	2:T5:74:VAL:HG13	2.01	0.41
1:T6:178:THR:HG22	1:T6:180:VAL:H	1.85	0.41
2:T7:207:GLU:OE1	2:T7:207:GLU:HA	2.20	0.41
2:U1:33:ASP:OD2	2:U1:34:GLY:N	2.53	0.41
2:U1:286:LEU:HD11	2:U1:291:ILE:CG2	2.49	0.41
1:U2:163:MET:HB3	1:U2:250:LEU:HD22	2.00	0.41
2:U5:60:LYS:HD3	2:W1:282:TYR:CE2	2.54	0.41
1:U6:86:ARG:HB3	1:U6:89:ASN:OD1	2.20	0.41
2:U7:217:LEU:HD23	2:U7:217:LEU:HA	1.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U8:387:ALA:HA	1:U8:390:ARG:HH21	1.85	0.41
2:V1:216:SER:OG	2:V1:217:LEU:N	2.53	0.41
2:V7:253:THR:HG23	2:V7:254:GLU:OE2	2.20	0.41
2:V7:401:LYS:HE3	2:V7:401:LYS:HB3	1.79	0.41
1:W0:273:LEU:H	1:W0:292:GLN:NE2	2.18	0.41
1:W0:286:VAL:HB	1:W0:287:PRO:HD3	2.02	0.41
2:W7:5:ILE:HD11	2:W7:135:PHE:HE1	1.84	0.41
2:W9:286:LEU:HD11	2:W9:291:ILE:CG2	2.51	0.41
1:X0:273:LEU:H	1:X0:292:GLN:HE22	1.68	0.41
1:X0:417:ASP:HA	1:X0:420:SER:OG	2.20	0.41
2:X5:301:MET:C	2:X5:303:VAL:H	2.23	0.41
1:X6:396:HIS:CE1	1:X6:397:TRP:CE2	3.08	0.41
2:X7:73:THR:HG23	2:X7:74:VAL:N	2.35	0.41
2:X7:89:PRO:HD2	2:Z3:283:HIS:ND1	2.34	0.41
2:X7:409:VAL:HA	2:X7:413:MET:O	2.20	0.41
1:X8:190:HIS:HD2	1:X8:414:ASN:ND2	2.18	0.41
1:X8:403:MET:HE2	1:X8:403:MET:HB2	1.73	0.41
2:X9:21:TRP:CZ3	2:X9:63:PRO:HB3	2.55	0.41
1:Y0:101:TRP:CE3	1:Y0:403:MET:HE1	2.54	0.41
2:Y1:236:SER:HA	2:Y1:239:THR:HG22	2.02	0.41
1:Y2:266:PHE:CE1	1:Y2:370:ASN:HB2	2.55	0.41
2:Y5:190:SER:O	2:Y5:194:LEU:HG	2.19	0.41
2:Y5:401:LYS:HE3	2:Y5:401:LYS:HB3	1.89	0.41
1:Y6:257:LEU:HD23	1:Y6:312:THR:HG23	2.02	0.41
1:Y8:267:MET:HE3	1:Y8:303:ALA:HB3	2.02	0.41
1:Z0:50:TYR:HD2	1:Z0:241:ARG:HD3	1.85	0.41
1:Z0:181:GLU:OE2	2:Z1:349:THR:HG21	2.20	0.41
1:Z0:396:HIS:CE1	1:Z0:397:TRP:CE2	3.08	0.41
2:Z1:34:GLY:HA3	2:Z1:60:LYS:NZ	2.35	0.41
2:Z5:81:GLY:O	2:Z5:84:ARG:NH1	2.52	0.41
2:Z5:407:TRP:O	2:Z5:411:GLU:HG2	2.20	0.41
1:Z8:43:GLN:O	1:Z8:47:ILE:HG23	2.20	0.41
1:Z8:233:MET:O	1:Z8:236:ILE:HG22	2.20	0.41
1:Z8:294:TRP:CD1	1:Z8:333:VAL:HG21	2.55	0.41
1:Z8:310:TYR:HB2	1:Z8:341:PHE:CD1	2.55	0.41
2:Z9:287:SER:HB3	2:Z9:290:GLU:CD	2.40	0.41
2:0B:208:ALA:HA	2:0B:211:ASP:OD2	2.20	0.41
2:0B:320:ARG:HE	2:0B:320:ARG:HB3	1.54	0.41
2:0F:83:TYR:CD1	2:0F:86:LEU:HD13	2.55	0.41
1:0G:49:VAL:HG13	1:0G:50:TYR:CD2	2.55	0.41
1:0G:379:LYS:HD3	1:0G:419:VAL:HG21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0I:156:ARG:NH1	1:0I:160:PRO:O	2.53	0.41
2:0J:209:ILE:HA	2:0J:212:ILE:HG12	2.02	0.41
2:0J:297:GLU:OE1	2:0J:298:PRO:HD2	2.20	0.41
2:0J:392:ASP:OD1	2:0J:422:ARG:NH1	2.53	0.41
1:0M:140:GLY:O	1:0M:184:ASN:ND2	2.52	0.41
2:0N:30:ILE:HG12	2:0N:36:MET:HG2	2.02	0.41
2:0N:141:VAL:HG22	2:0N:171:VAL:O	2.20	0.41
2:0N:224:TYR:CD2	1:0O:245:GLN:HB3	2.54	0.41
1:0O:327:ASP:N	1:0O:327:ASP:OD2	2.52	0.41
1:0O:358:PRO:HG2	1:0O:361:LEU:HD13	2.01	0.41
1:0O:396:HIS:HE1	1:0O:397:TRP:CZ2	2.37	0.41
2:0P:33:ASP:OD2	2:0P:35:GLN:NE2	2.53	0.41
2:0P:222:PRO:HD2	1:0Q:324:LYS:HE3	2.02	0.41
1:0Q:250:LEU:HD13	1:0Q:250:LEU:HA	1.92	0.41
1:0Q:276:ARG:HA	1:0Q:279:GLN:HG3	2.01	0.41
1:0S:374:ILE:HG12	1:0S:378:PHE:CZ	2.54	0.41
1:0U:190:HIS:CD2	1:0U:411:ALA:HA	2.55	0.41
1:0W:344:TRP:O	1:0W:345:ILE:HD13	2.19	0.41
1:0W:375:GLN:NE2	1:0W:423:GLN:HE21	2.18	0.41
2:0X:427:ALA:HA	2:0X:430:LYS:HE2	2.01	0.41
2:0Z:7:ILE:HD11	2:0Z:137:VAL:HG12	2.02	0.41
2:0Z:21:TRP:CZ2	2:0Z:65:CYS:HB2	2.55	0.41
2:0Z:75:VAL:HG11	2:0Z:94:SER:HB2	2.02	0.41
2:0Z:367:ASP:OD2	2:0Z:368:LEU:HD12	2.20	0.41
1:1A:256:ASN:HD22	1:1A:350:LYS:HD3	1.85	0.41
2:1F:2:ARG:HB2	2:1F:242:LEU:HD11	2.01	0.41
2:1F:420:GLU:O	2:1F:424:ASP:HB2	2.19	0.41
1:1G:169:VAL:HG22	1:1G:202:LEU:HB2	2.01	0.41
2:1H:252:ILE:O	2:1H:256:GLN:NE2	2.51	0.41
2:1L:53:PHE:HB3	2:1L:61:HIS:HB3	2.01	0.41
2:1P:377:MET:HE3	2:1P:379:SER:HB3	2.01	0.41
1:1Q:384:GLN:HB3	2:1R:348:PRO:HG3	2.01	0.41
2:1R:58:ALA:N	10:5B:156:TYR:HE2	2.18	0.41
2:1V:320:ARG:NH2	2:1V:359:PRO:O	2.53	0.41
2:1X:227:LEU:O	2:1X:230:LEU:HG	2.20	0.41
2:1X:330:ALA:O	2:1X:334:THR:HG23	2.20	0.41
1:2A:286:VAL:CG2	1:2A:287:PRO:HD3	2.48	0.41
1:2A:417:ASP:OD1	1:2A:418:LEU:N	2.53	0.41
2:2B:145:THR:OG1	41:2C:501:GTP:O1B	2.38	0.41
1:2C:192:LEU:HD23	1:2C:192:LEU:HA	1.77	0.41
1:2C:201:VAL:HG21	1:2C:374:ILE:HD11	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2E:216:LYS:HB2	1:2E:275:SER:OG	2.20	0.41
1:2E:418:LEU:O	1:2E:421:GLU:HG2	2.20	0.41
2:2F:335:ILE:HG23	2:2F:341:ILE:HD11	2.02	0.41
1:2I:395:LEU:O	1:2I:399:THR:HG23	2.20	0.41
2:2L:195:LEU:O	2:2L:266:HIS:NE2	2.54	0.41
1:2Q:183:TYR:HB3	1:2Q:398:TYR:HE2	1.84	0.41
1:2Q:309:ARG:NH1	1:2Q:339:SER:O	2.53	0.41
1:2S:48:ASN:OD1	1:2S:48:ASN:N	2.52	0.41
1:2U:320:ARG:HH12	38:8B:197:THR:C	2.23	0.41
2:2V:308:ARG:NH2	38:8B:73:TRP:N	2.68	0.41
2:2V:312:TYR:HB2	2:2V:343:PHE:CD1	2.54	0.41
2:2V:384:ILE:HA	2:2V:387:ILE:HD12	2.02	0.41
1:3A:161:ASP:OD1	1:3A:161:ASP:N	2.41	0.41
2:3B:62:VAL:HA	2:3B:63:PRO:HD3	1.91	0.41
2:3B:203:MET:O	2:3B:204:LEU:HD22	2.20	0.41
1:3C:44:LEU:HA	1:3C:47:ILE:CD1	2.50	0.41
1:3C:95:THR:HG23	1:3C:96:GLY:N	2.35	0.41
1:3C:203:ASP:OD1	1:3C:302:ALA:N	2.51	0.41
2:3D:154:LEU:HD11	2:3D:166:LYS:HD2	2.01	0.41
2:3D:173:PRO:HB3	2:3D:183:GLU:OE2	2.20	0.41
2:3F:179:THR:O	1:3G:350:LYS:HD2	2.20	0.41
1:3G:50:TYR:OH	1:3G:237:THR:HG21	2.20	0.41
1:3I:317:PHE:CD2	1:3I:321:MET:HE1	2.55	0.41
2:3L:109:THR:OG1	2:3L:411:GLU:OE2	2.31	0.41
2:3L:184:PRO:O	2:3L:188:VAL:HG22	2.20	0.41
2:3L:217:LEU:HD22	2:3L:367:ASP:HB3	2.02	0.41
2:3P:22:GLU:OE2	2:3P:363:VAL:HG11	2.20	0.41
1:3Q:272:PRO:HB2	1:3Q:282:ARG:NH1	2.32	0.41
2:3R:52:PHE:CE2	2:3R:243:ARG:HD3	2.55	0.41
2:3R:157:LEU:HD23	2:3R:157:LEU:HA	1.79	0.41
1:3S:165:LEU:HD23	1:3S:165:LEU:HA	1.93	0.41
4:3W:30:SER:H	4:3W:57:THR:HG22	1.83	0.41
3:4D:15:ARG:HB2	3:4D:19:LEU:HD12	2.02	0.41
3:4H:15:ARG:HB2	3:4H:19:LEU:HD12	2.01	0.41
6:4N:488:SER:HA	6:4N:491:LEU:HD12	2.01	0.41
9:4Y:420:ILE:HD13	9:4Y:420:ILE:HA	1.91	0.41
10:5A:364:ALA:O	10:5A:367:GLU:HG3	2.20	0.41
10:5B:314:LYS:HA	10:5B:317:ILE:HG12	2.02	0.41
11:5E:110:GLN:HB3	11:5E:111:PRO:HD2	2.02	0.41
11:5E:238:THR:HA	11:5E:239:PRO:HD3	1.91	0.41
13:5H:6:PRO:HB3	13:5H:40:ARG:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:5L:24:HIS:CB	14:5L:29:THR:HB	2.50	0.41
14:5L:319:TYR:HA	14:5L:334:LEU:HA	2.01	0.41
14:5L:587:CYS:HB3	14:5L:589:PHE:CD1	2.51	0.41
14:5M:587:CYS:HB3	14:5M:589:PHE:CD1	2.51	0.41
14:5N:587:CYS:HB3	14:5N:589:PHE:CD1	2.51	0.41
15:5O:268:GLY:HA2	15:5O:308:ALA:O	2.20	0.41
15:5P:11:SER:HB3	15:5P:75:LEU:HA	2.02	0.41
15:5P:12:GLU:OE1	15:5P:12:GLU:N	2.48	0.41
17:5U:205:SER:OG	17:5U:208:LYS:HG3	2.20	0.41
18:5X:128:GLN:CD	18:5X:129:PRO:HD3	2.39	0.41
18:6D:128:GLN:CD	18:6D:129:PRO:HD3	2.39	0.41
21:6H:14:LEU:HG	21:6H:131:TYR:CE2	2.50	0.41
22:6I:102:ILE:O	22:6I:102:ILE:HG13	2.19	0.41
22:6I:186:ARG:O	22:6I:189:LYS:HB2	2.20	0.41
22:6L:330:ALA:N	22:6L:331:PRO:HD2	2.35	0.41
22:6P:170:ARG:HH12	22:6P:249:SER:HA	1.84	0.41
22:6P:273:VAL:O	22:6P:276:LEU:HG	2.20	0.41
23:6R:28:LYS:H	23:6R:28:LYS:HE3	1.84	0.41
24:6U:40:GLN:HA	24:6U:40:GLN:OE1	2.20	0.41
24:6U:480:ASN:ND2	24:6U:503:ILE:HD12	2.34	0.41
24:6U:480:ASN:OD1	24:6U:480:ASN:N	2.53	0.41
24:6U:505:LYS:HG3	24:6U:510:GLU:O	2.19	0.41
24:6V:565:GLN:NE2	24:6V:602:LEU:HB2	2.34	0.41
24:6W:274:ARG:HD3	24:6W:295:HIS:HE1	1.85	0.41
24:6W:577:VAL:HG21	24:6W:630:LEU:HD21	2.02	0.41
24:6X:420:LEU:HD12	24:6X:423:CYS:SG	2.60	0.41
24:6Y:42:GLU:N	24:6Y:42:GLU:CD	2.73	0.41
24:6Y:445:ILE:HG22	24:6Y:474:PHE:CD1	2.55	0.41
24:6Z:153:VAL:HG23	24:6Z:175:TYR:CZ	2.55	0.41
24:6Z:560:ARG:HA	24:6Z:563:LYS:HE3	2.01	0.41
26:7E:50:SER:N	26:7E:56:LEU:HD21	2.35	0.41
29:7I:253:ASN:HB3	30:7K:341:ARG:HH22	1.83	0.41
29:7J:117:ASN:HB3	29:7J:120:PRO:HG2	2.01	0.41
29:7J:233:LYS:HD2	29:7J:233:LYS:HA	1.89	0.41
29:7J:424:LEU:HD23	29:7J:424:LEU:HA	1.85	0.41
30:7K:340:VAL:HG11	30:7K:354:TYR:HE1	1.85	0.41
30:7K:399:LEU:HB2	30:7K:403:ASP:OD1	2.20	0.41
34:7R:167:THR:HG23	35:7T:115:MET:HA	2.02	0.41
28:7X:301:GLU:OE1	28:7X:302:ALA:N	2.53	0.41
38:7Z:12:LEU:HB3	38:7Z:18:VAL:CG2	2.50	0.41
38:8C:206:PRO:CG	38:8C:209:HIS:CE1	3.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:8C:229:ASN:HB3	38:8C:232:PHE:CZ	2.54	0.41
1:A3:40:SER:HA	26:7F:122:VAL:CB	2.49	0.41
1:F0:53:GLU:HB2	22:6N:255:PHE:CE1	2.54	0.41
1:F8:218:THR:N	24:6U:418:ASP:OD2	2.49	0.41
1:G0:388:MET:HE3	2:G1:348:PRO:HD3	2.01	0.41
2:G1:259:LEU:HD11	2:G1:316:CYS:HB2	2.01	0.41
1:G2:344:TRP:CE3	1:G2:345:ILE:HG13	2.55	0.41
2:G3:117:LEU:HD12	2:G3:117:LEU:HA	1.89	0.41
2:G3:238:LEU:HD11	2:G3:255:PHE:CZ	2.56	0.41
1:G4:3:GLU:HB2	1:G4:130:LEU:HA	2.01	0.41
1:G4:421:GLU:HA	1:G4:424:GLN:HB3	2.03	0.41
1:G8:100:ASN:HB3	1:G8:103:LYS:HB2	2.02	0.41
2:G9:188:VAL:HG21	2:G9:395:PHE:CG	2.55	0.41
2:H1:261:PRO:HG2	2:H1:262:TYR:CD2	2.55	0.41
1:H2:286:VAL:HG21	1:H2:325:GLU:HB3	2.02	0.41
1:H2:317:PHE:HB3	1:H2:321:MET:SD	2.60	0.41
2:H3:7:ILE:HD11	2:H3:137:VAL:HG12	2.01	0.41
2:H3:344:VAL:HG13	2:H3:347:CYS:H	1.84	0.41
1:H4:154:LYS:HD3	1:H4:154:LYS:HA	1.87	0.41
1:H4:213:ARG:NH2	1:H4:297:LYS:HG3	2.35	0.41
2:H5:72:PRO:HD2	1:H6:2:ARG:NH1	2.35	0.41
2:H7:195:LEU:HD21	2:H7:264:ARG:CD	2.49	0.41
2:H9:33:ASP:OD1	2:H9:33:ASP:N	2.51	0.41
1:I0:273:LEU:H	1:I0:292:GLN:HE22	1.67	0.41
1:I0:297:LYS:HA	1:I0:297:LYS:HD3	1.89	0.41
1:I2:164:MET:HE3	1:I2:164:MET:HB2	1.88	0.41
1:I2:236:ILE:HG23	1:I2:237:THR:HG23	2.01	0.41
1:I4:116:VAL:HA	1:I4:119:VAL:HG12	2.03	0.41
2:I5:79:ARG:HH11	2:I5:92:LEU:HB2	1.85	0.41
2:I7:145:THR:OG1	41:I8:501:GTP:O1B	2.38	0.41
2:I7:368:LEU:HD13	2:I7:368:LEU:HA	1.96	0.41
1:I8:185:ALA:O	1:I8:189:VAL:HG12	2.20	0.41
2:I9:14:ILE:HD11	2:I9:74:VAL:HG13	2.01	0.41
2:I9:278:ALA:HA	2:I9:369:ALA:HB2	2.02	0.41
2:J1:237:SER:HA	2:J1:320:ARG:HD2	2.01	0.41
2:J1:262:TYR:HE2	2:J1:346:TRP:CZ3	2.38	0.41
2:J3:62:VAL:HA	2:J3:63:PRO:HD3	1.93	0.41
1:J4:68:LEU:HD21	1:J4:112:LEU:HD22	2.02	0.41
2:J5:264:ARG:NH2	2:J5:431:ASP:OD2	2.53	0.41
1:J6:21:TRP:CZ3	1:J6:61:PRO:HB3	2.55	0.41
1:J6:91:VAL:HG11	1:J6:116:VAL:HG22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J7:9:ILE:HD13	2:J7:150:GLY:HA2	2.01	0.41
1:K0:5:VAL:HG23	1:K0:62:ARG:HG2	2.02	0.41
1:K0:212:PHE:HZ	2:K1:326:LYS:HB2	1.85	0.41
2:K1:103:PHE:CE1	2:K1:148:GLY:HA2	2.55	0.41
2:K1:210:TYR:HE1	2:K1:227:LEU:CD1	2.32	0.41
1:K4:178:THR:HG22	1:K4:181:GLU:HG3	2.02	0.41
1:K4:309:ARG:NH1	1:K4:341:PHE:O	2.53	0.41
2:L1:288:VAL:HG13	2:L1:319:TYR:HE2	1.84	0.41
1:L2:263:LEU:HD13	1:L2:422:TYR:CE2	2.55	0.41
2:L5:206:ASN:OD1	41:L6:501:GTP:N2	2.53	0.41
2:L5:213:CYS:SG	2:L5:219:ILE:HB	2.60	0.41
2:L7:217:LEU:HG	2:L7:219:ILE:HG12	2.02	0.41
2:L9:125:LEU:HD23	2:L9:125:LEU:HA	1.82	0.41
1:M0:48:ASN:OD1	1:M0:48:ASN:N	2.53	0.41
1:M6:7:ILE:O	1:M6:135:VAL:HA	2.20	0.41
1:M8:175:VAL:HG23	1:M8:175:VAL:O	2.20	0.41
1:N2:167:PHE:CE2	1:N2:233:MET:HG2	2.54	0.41
1:N2:320:ARG:NH1	29:7J:110:THR:HA	2.28	0.41
2:N5:98:ASP:OD1	2:N5:99:ALA:N	2.52	0.41
1:N6:396:HIS:H	1:N6:396:HIS:CD2	2.38	0.41
2:N7:32:PRO:HB3	2:N7:83:TYR:CE1	2.56	0.41
2:N7:52:PHE:CZ	2:N7:239:THR:HG21	2.55	0.41
1:N8:320:ARG:HH22	27:7G:132:THR:HA	1.85	0.41
1:O0:67:ASP:OD2	1:O0:72:THR:OG1	2.32	0.41
2:O1:65:CYS:SG	2:O1:66:ILE:N	2.94	0.41
1:O4:130:LEU:HB2	1:O4:162:ARG:HE	1.85	0.41
1:O6:282:ARG:NH1	1:O6:288:GLU:OE2	2.54	0.41
1:P4:180:VAL:HG23	1:P4:184:ASN:HD21	1.85	0.41
2:P7:4:VAL:HG23	2:P7:134:GLY:O	2.20	0.41
2:P7:66:ILE:HD11	2:P7:122:ILE:HD11	2.03	0.41
2:P9:306:ASP:OD2	2:U7:282:TYR:OH	2.28	0.41
1:Q0:338:SER:O	1:Q0:338:SER:OG	2.38	0.41
2:Q5:88:HIS:HB3	2:Q5:91:GLN:HG3	2.01	0.41
1:Q8:219:THR:HB	2:Q9:324:VAL:HG11	2.02	0.41
1:Q8:311:LEU:HA	1:Q8:342:VAL:CG2	2.50	0.41
2:Q9:298:PRO:HB3	2:Q9:307:PRO:HD2	2.01	0.41
2:Q9:428:LEU:HG	2:Q9:432:PHE:HE2	1.85	0.41
1:R2:114:ASP:OD2	1:R2:114:ASP:N	2.51	0.41
2:R3:49:PHE:HB2	2:R3:53:PHE:HD2	1.85	0.41
1:R4:42:LEU:HD23	21:6G:94:THR:HG21	2.02	0.41
1:R4:395:LEU:HD21	1:R4:405:GLU:OE1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R5:113:GLU:OE2	2:R5:113:GLU:N	2.52	0.41
2:R5:176:GLN:HG2	2:R5:177:VAL:H	1.85	0.41
1:S0:117:LEU:HD23	1:S0:117:LEU:HA	1.76	0.41
1:S0:154:LYS:HA	1:S0:154:LYS:HD3	1.93	0.41
1:S0:344:TRP:CE3	1:S0:345:ILE:HG13	2.56	0.41
1:S0:361:LEU:HD23	1:S0:361:LEU:HA	1.94	0.41
1:S2:83:GLN:O	1:T8:281:TYR:OH	2.29	0.41
1:S2:424:GLN:NE2	17:5V:104:PHE:HD2	2.18	0.41
1:S4:178:THR:HG22	2:S5:352:LYS:HE2	2.02	0.41
2:S5:116:ASP:OD1	2:S5:117:LEU:N	2.53	0.41
1:S6:138:SER:OG	1:S6:139:LEU:N	2.53	0.41
2:S7:288:VAL:HG13	2:S7:319:TYR:HE2	1.85	0.41
1:S8:156:ARG:NH1	1:S8:197:ASP:OD1	2.53	0.41
1:S8:216:LYS:HB2	1:S8:275:SER:OG	2.20	0.41
1:S8:317:PHE:HB3	1:S8:321:MET:SD	2.60	0.41
2:S9:326:LYS:HD2	2:S9:327:ASP:N	2.35	0.41
1:T0:285:THR:CB	1:T0:287:PRO:HD2	2.49	0.41
2:T1:98:ASP:OD1	2:T1:100:ALA:HB2	2.20	0.41
2:T1:324:VAL:HG23	2:T1:326:LYS:HG2	2.01	0.41
1:T2:44:LEU:HD23	1:T2:44:LEU:HA	1.78	0.41
1:T2:189:VAL:O	1:T2:193:VAL:HG13	2.19	0.41
2:T3:265:ILE:HD11	2:T3:435:VAL:HG21	2.03	0.41
1:T4:157:GLU:OE2	3:4F:90:ILE:HD12	2.20	0.41
2:T5:335:ILE:HG23	2:T5:341:ILE:HD11	2.03	0.41
1:T8:218:THR:HG23	1:T8:219:THR:H	1.85	0.41
2:U1:62:VAL:HG22	2:U1:88:HIS:HD2	1.85	0.41
1:U2:396:HIS:CE1	1:U2:397:TRP:CE2	3.07	0.41
2:U3:53:PHE:HD1	2:U3:63:PRO:HA	1.85	0.41
1:U4:31:ASP:OD1	1:U4:35:THR:N	2.51	0.41
2:U7:177:VAL:HG13	1:U8:327:ASP:HB3	2.02	0.41
2:V1:91:GLN:HG2	2:V1:121:ARG:NH2	2.35	0.41
2:V3:90:GLU:HB3	2:V3:121:ARG:HH12	1.84	0.41
1:V6:21:TRP:CZ3	1:V6:61:PRO:HB3	2.55	0.41
2:W1:425:LEU:O	2:W1:429:GLU:HG2	2.20	0.41
2:W5:136:LEU:HA	2:W5:167:LEU:O	2.20	0.41
2:W5:358:GLN:OE1	2:W5:359:PRO:HD2	2.21	0.41
2:W7:8:HIS:HB2	2:W7:67:PHE:HD1	1.86	0.41
1:W8:286:VAL:HG23	1:W8:287:PRO:HD3	2.01	0.41
1:W8:414:ASN:HA	1:W8:417:ASP:OD2	2.20	0.41
2:W9:84:ARG:HB2	2:W9:84:ARG:NH1	2.35	0.41
2:W9:326:LYS:HG3	2:W9:327:ASP:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X0:41:ASP:OD1	8:4X:114:ARG:NH1	2.53	0.41
2:X3:175:PRO:HB3	2:X3:390:ARG:NE	2.36	0.41
2:X3:216:SER:OG	2:X3:217:LEU:N	2.53	0.41
1:X4:232:VAL:HG11	1:X4:268:VAL:HG11	2.02	0.41
2:X5:246:GLY:HA2	2:X5:357:TYR:CD2	2.55	0.41
2:X5:336:LYS:O	2:X5:339:ARG:NH2	2.53	0.41
1:X6:21:TRP:CZ3	1:X6:61:PRO:HB3	2.54	0.41
1:X6:170:VAL:HG22	1:X6:202:LEU:O	2.20	0.41
1:X6:199:CYS:SG	1:X6:265:PHE:HD1	2.44	0.41
2:X7:322:ASP:OD1	2:X7:322:ASP:N	2.48	0.41
1:X8:214:THR:OG1	1:X8:215:LEU:N	2.53	0.41
1:X8:406:MET:O	1:X8:410:GLU:HG2	2.20	0.41
1:Y0:6:HIS:HA	1:Y0:134:GLN:O	2.19	0.41
1:Y0:138:SER:O	1:Y0:139:LEU:HD23	2.20	0.41
2:Y1:191:THR:HG21	2:Y1:425:LEU:HD21	2.02	0.41
2:Y1:413:MET:HB3	2:Y1:417:GLU:OE2	2.19	0.41
2:Y3:89:PRO:HD2	2:Z9:283:HIS:ND1	2.35	0.41
1:Y4:68:LEU:HD21	1:Y4:112:LEU:HD22	2.01	0.41
1:Y6:328:GLU:O	1:Y6:332:ASN:ND2	2.52	0.41
1:Y8:11:GLN:HG2	1:Y8:12:CYS:H	1.84	0.41
1:Y8:406:MET:SD	1:Y8:406:MET:N	2.93	0.41
1:Y8:417:ASP:HA	1:Y8:420:SER:OG	2.20	0.41
1:Z0:31:ASP:OD2	1:Z0:33:THR:HB	2.20	0.41
1:Z2:183:TYR:O	1:Z2:187:LEU:HD13	2.20	0.41
1:Z2:395:LEU:HD23	1:Z2:395:LEU:HA	1.76	0.41
1:Z8:138:SER:HA	1:Z8:169:VAL:HG12	2.03	0.41
1:Z8:183:TYR:O	1:Z8:187:LEU:HD13	2.20	0.41
2:Z9:212:ILE:O	2:Z9:216:SER:OG	2.33	0.41
1:0A:8:GLN:HB3	1:0A:13:GLY:O	2.18	0.41
1:0A:325:GLU:HA	1:0A:328:GLU:HG3	2.02	0.41
1:0C:12:CYS:O	1:0C:16:ILE:HG12	2.19	0.41
1:0E:48:ASN:OD1	1:0E:49:VAL:N	2.53	0.41
2:0F:3:GLU:HG3	2:0F:51:THR:HA	2.01	0.41
2:0F:91:GLN:HG3	2:0F:121:ARG:NH2	2.35	0.41
2:0F:240:ALA:HB1	2:0F:356:ASN:HD22	1.83	0.41
1:0K:67:ASP:OD1	1:0K:67:ASP:N	2.53	0.41
1:0M:284:LEU:HG	1:0M:362:LYS:HD3	2.02	0.41
1:0O:62:ARG:HH21	1:0O:127:CYS:HB3	1.85	0.41
1:0O:116:VAL:O	1:0O:120:VAL:HG12	2.20	0.41
1:0O:388:MET:O	1:0O:391:ARG:N	2.52	0.41
2:0P:102:ASN:ND2	2:0P:105:ARG:HB2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0R:49:PHE:HD2	2:0R:53:PHE:HB2	1.85	0.41
2:0R:174:SER:HB3	2:0R:207:GLU:CD	2.40	0.41
2:0R:285:GLN:NE2	2:0R:286:LEU:O	2.52	0.41
1:1A:7:ILE:HD13	1:1A:151:LEU:HD21	2.02	0.41
1:1A:175:VAL:HG22	2:1B:329:ASN:HD21	1.84	0.41
1:1A:286:VAL:HG12	1:1A:329:GLN:HG2	2.01	0.41
2:1B:170:THR:HG21	2:1B:194:LEU:HD11	2.02	0.41
1:1C:31:ASP:HB2	1:1C:32:PRO:HD2	2.02	0.41
2:1D:27:GLU:OE2	2:1D:243:ARG:NH1	2.53	0.41
1:1E:270:PHE:O	1:1E:273:LEU:HD23	2.20	0.41
1:1E:379:LYS:HD2	1:1E:379:LYS:HA	1.93	0.41
2:1F:287:SER:N	2:1F:290:GLU:OE2	2.53	0.41
1:1G:12:CYS:SG	1:1G:138:SER:HB3	2.60	0.41
2:1H:182:VAL:HG23	2:1H:186:ASN:ND2	2.34	0.41
2:1H:213:CYS:HA	2:1H:217:LEU:HD13	2.01	0.41
2:1H:404:PHE:HB3	2:1H:407:TRP:HD1	1.85	0.41
1:1K:318:ARG:HB2	1:1K:364:SER:OG	2.20	0.41
1:1M:372:THR:O	1:1M:375:GLN:HG3	2.20	0.41
2:1P:205:ASP:OD2	2:1P:303:VAL:HG13	2.19	0.41
1:1S:117:LEU:HA	1:1S:120:VAL:HG12	2.01	0.41
2:1V:176:GLN:HG2	2:1V:177:VAL:HG13	2.02	0.41
1:1W:69:GLU:C	1:1W:92:PHE:HZ	2.23	0.41
1:1W:392:LYS:HD2	1:1W:395:LEU:HD22	2.02	0.41
2:1X:203:MET:O	2:1X:204:LEU:HD12	2.20	0.41
2:1Z:22:GLU:HG2	2:1Z:83:TYR:OH	2.19	0.41
2:1Z:258:ASN:HD22	2:1Z:352:LYS:HZ2	1.68	0.41
1:2A:130:LEU:HD23	1:2A:130:LEU:HA	1.81	0.41
1:2C:263:LEU:HA	1:2C:422:TYR:OH	2.20	0.41
1:2E:246:LEU:HD22	1:2E:352:SER:HA	2.02	0.41
2:2F:179:THR:O	1:2G:350:LYS:HD2	2.20	0.41
2:2F:205:ASP:OD1	2:2F:207:GLU:N	2.53	0.41
1:2G:68:LEU:HB3	1:2G:96:GLY:HA2	2.02	0.41
1:2G:273:LEU:H	1:2G:292:GLN:NE2	2.18	0.41
2:2H:325:PRO:HA	2:2H:328:VAL:HG22	2.02	0.41
1:2M:117:LEU:HA	1:2M:120:VAL:HG12	2.02	0.41
2:2N:274:PRO:HB2	2:2N:276:ILE:HG12	2.01	0.41
1:2Q:3:GLU:HG3	1:2Q:127:CYS:SG	2.59	0.41
2:2R:9:ILE:HD13	2:2R:150:GLY:HA2	2.01	0.41
1:2S:208:TYR:CE1	1:2S:225:LEU:HD11	2.55	0.41
2:2T:122:ILE:HD11	2:2T:157:LEU:HD21	2.02	0.41
2:2V:231:ILE:HD13	2:2V:231:ILE:HA	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2W:297:LYS:CE	38:8B:47:PHE:HA	2.50	0.41
1:2Y:232:VAL:O	1:2Y:236:ILE:HG12	2.20	0.41
2:3B:42:ILE:HD12	2:3B:42:ILE:HA	1.64	0.41
1:3C:140:GLY:HA3	1:3C:181:GLU:OE1	2.20	0.41
1:3C:244:GLY:H	1:3C:247:ASN:HD21	1.68	0.41
2:3H:5:ILE:HD11	2:3H:135:PHE:CE1	2.55	0.41
2:3H:9:ILE:HD11	2:3H:153:LEU:HD23	2.03	0.41
2:3J:122:ILE:O	2:3J:125:LEU:HB2	2.20	0.41
2:3L:122:ILE:HA	2:3L:125:LEU:HB2	2.02	0.41
2:3P:114:ILE:HD12	2:3P:114:ILE:HA	1.91	0.41
1:3Q:78:SER:OG	14:5N:192:THR:O	2.31	0.41
1:3Q:246:LEU:HD12	1:3Q:246:LEU:HA	1.84	0.41
1:3Q:282:ARG:HH21	1:3Q:288:GLU:CD	2.24	0.41
1:3S:30:ILE:HG13	1:3S:35:THR:O	2.20	0.41
1:3S:190:HIS:HD2	1:3S:414:ASN:HB2	1.84	0.41
1:3S:237:THR:HG23	1:3S:241:ARG:HE	1.85	0.41
2:3T:264:ARG:NH1	2:3T:428:LEU:HD13	2.35	0.41
2:3T:288:VAL:HG21	2:3T:327:ASP:CB	2.44	0.41
3:3X:15:ARG:HB2	3:3X:19:LEU:HD12	2.01	0.41
3:3Z:15:ARG:HB2	3:3Z:19:LEU:HD12	2.02	0.41
4:4C:30:SER:H	4:4C:57:THR:HG22	1.83	0.41
3:4F:15:ARG:HB2	3:4F:19:LEU:HD12	2.01	0.41
7:4U:46:GLN:CD	11:5E:15:ARG:HH22	2.23	0.41
8:4W:210:GLU:HA	8:4W:213:LEU:HD12	2.02	0.41
8:4W:255:GLU:HA	8:4W:258:GLU:HG3	2.01	0.41
9:4Z:362:GLN:O	9:4Z:366:GLU:HG2	2.20	0.41
13:5I:6:PRO:HB3	13:5I:40:ARG:O	2.20	0.41
13:5K:6:PRO:HB3	13:5K:40:ARG:O	2.20	0.41
14:5M:319:TYR:HA	14:5M:334:LEU:HA	2.01	0.41
14:5M:363:PHE:HD1	14:5M:377:ARG:CD	2.30	0.41
14:5N:319:TYR:HA	14:5N:334:LEU:HA	2.01	0.41
15:5P:24:TYR:OH	15:5P:46:PHE:CE1	2.73	0.41
15:5P:263:PHE:HB3	15:5P:312:ALA:O	2.20	0.41
15:5P:285:TYR:HB3	15:5P:289:LEU:HD12	2.02	0.41
15:5P:313:ASP:OD2	15:5P:318:ASP:N	2.53	0.41
16:5Q:104:ILE:O	16:5Q:108:GLU:HG2	2.20	0.41
16:5Q:192:TYR:HE2	35:7T:130:LYS:HE3	1.85	0.41
17:5S:69:LYS:HA	17:5S:69:LYS:HD3	1.73	0.41
17:5T:205:SER:OG	17:5T:208:LYS:HG3	2.20	0.41
18:5X:39:TYR:CE1	18:5X:82:ASP:HB3	2.55	0.41
18:5Z:39:TYR:CE1	18:5Z:82:ASP:HB3	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:6D:39:TYR:CE1	18:6D:82:ASP:HB3	2.55	0.41
20:6F:218:GLU:H	20:6F:218:GLU:CD	2.22	0.41
21:6H:27:THR:HG22	21:6H:27:THR:O	2.20	0.41
22:6J:162:LEU:HD11	22:6J:225:ALA:HB1	2.01	0.41
22:6J:186:ARG:O	22:6J:189:LYS:HB2	2.20	0.41
22:6J:321:LEU:HD12	22:6J:321:LEU:HA	1.95	0.41
22:6K:307:ARG:O	22:6K:311:VAL:HG23	2.20	0.41
22:6M:106:ASP:OD2	24:6X:286:TYR:HA	2.19	0.41
22:6O:201:ARG:HB3	22:6O:237:TYR:HB3	2.03	0.41
22:6O:294:LEU:HD23	22:6O:297:PHE:HD2	1.85	0.41
24:6T:280:ASP:HA	24:6T:289:ARG:HB2	2.01	0.41
24:6T:285:MET:HG3	24:6T:285:MET:O	2.20	0.41
24:6V:290:ARG:HG3	24:6V:291:PRO:HD2	2.01	0.41
24:6V:469:PHE:CE2	24:6V:482:ILE:HG23	2.55	0.41
24:6Y:197:LYS:HE2	24:6Y:197:LYS:HB3	1.59	0.41
24:6Y:288:ASP:OD1	24:6Y:288:ASP:N	2.53	0.41
24:6Y:502:LYS:HB3	24:6Y:511:ILE:HD12	2.01	0.41
25:7C:8:VAL:O	25:7C:11:THR:HG22	2.20	0.41
25:7C:110:ARG:NH2	30:7K:251:LYS:HD3	2.35	0.41
38:8B:180:THR:C	38:8B:181:LYS:HD2	2.40	0.41
1:3:10:GLY:HA3	39:3:502:GDP:O1B	2.20	0.41
1:B1:276:ARG:HH12	24:6V:210:VAL:HG21	1.85	0.41
1:E0:143:THR:OG1	39:E0:501:GDP:O1B	2.38	0.41
2:G1:240:ALA:O	2:G1:356:ASN:ND2	2.53	0.41
1:G2:228:LEU:O	1:G2:232:VAL:HG23	2.20	0.41
2:G3:276:ILE:HG22	2:G3:281:ALA:HB2	2.02	0.41
2:G5:322:ASP:OD2	24:6X:433:ARG:NH1	2.52	0.41
1:G6:86:ARG:NH1	1:G6:89:ASN:OD1	2.53	0.41
1:G8:316:LEU:HD22	1:G8:352:SER:OG	2.20	0.41
2:G9:76:ASP:HA	2:G9:79:ARG:HD2	2.02	0.41
2:G9:370:LYS:HG2	24:6Z:439:MET:SD	2.60	0.41
2:H1:21:TRP:CD1	2:H1:87:PHE:HZ	2.38	0.41
2:H1:154:LEU:HA	2:H1:154:LEU:HD23	1.87	0.41
2:H3:203:MET:C	2:H3:204:LEU:HD12	2.40	0.41
2:H5:191:THR:HA	2:H5:194:LEU:HB3	2.01	0.41
1:H6:53:GLU:OE2	1:H6:57:GLY:N	2.53	0.41
1:H6:192:LEU:HD23	1:H6:192:LEU:HA	1.85	0.41
2:H9:125:LEU:HD23	2:H9:125:LEU:HA	1.80	0.41
2:H9:255:PHE:HD1	2:H9:259:LEU:HD22	1.85	0.41
2:I5:361:THR:OG1	2:I5:362:VAL:N	2.52	0.41
1:J2:152:ILE:HD13	1:J2:152:ILE:HA	1.90	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J3:397:LEU:HD23	2:J3:397:LEU:HA	1.90	0.41
1:J4:396:HIS:HA	1:J4:399:THR:OG1	2.21	0.41
2:J5:183:GLU:HG3	2:J5:184:PRO:HD3	2.02	0.41
1:J6:5:VAL:HG12	1:J6:62:ARG:HD3	2.03	0.41
1:J6:391:ARG:HD3	2:J7:346:TRP:CD2	2.55	0.41
2:J7:425:LEU:HD23	2:J7:425:LEU:HA	1.91	0.41
2:K3:12:ALA:HB2	41:K4:501:GTP:C8	2.56	0.41
2:K3:35:GLN:HG3	2:K3:59:GLY:O	2.21	0.41
2:K5:265:ILE:HD11	2:K5:435:VAL:HG21	2.01	0.41
2:K7:129:CYS:SG	2:K7:130:THR:N	2.93	0.41
2:K9:334:THR:HA	2:K9:337:THR:HG22	2.03	0.41
1:L2:22:GLU:HG2	1:L2:81:TYR:CD2	2.55	0.41
2:L7:132:LEU:HD22	2:L7:164:LYS:HD3	2.02	0.41
2:L7:316:CYS:O	2:L7:377:MET:HA	2.20	0.41
1:M0:148:GLY:O	1:M0:152:ILE:HG12	2.19	0.41
2:M1:9:ILE:HD11	2:M1:153:LEU:HD23	2.03	0.41
1:M2:201:VAL:HG12	1:M2:301:CYS:SG	2.61	0.41
1:M4:297:LYS:HD3	1:M4:297:LYS:HA	1.87	0.41
1:M8:69:GLU:HG2	1:M8:71:GLY:H	1.85	0.41
1:M8:364:SER:OG	1:M8:365:ALA:N	2.54	0.41
2:M9:4:VAL:HG23	2:M9:134:GLY:O	2.20	0.41
2:M9:21:TRP:CZ3	2:M9:63:PRO:HB3	2.55	0.41
1:N2:238:CYS:SG	1:N2:318:ARG:NE	2.93	0.41
2:N3:112:LYS:HA	2:N3:112:LYS:HD3	1.93	0.41
2:N3:274:PRO:HB2	2:N3:276:ILE:HG12	2.02	0.41
2:N3:275:ILE:O	2:N3:275:ILE:HG23	2.20	0.41
2:N3:317:LEU:HB3	2:N3:319:TYR:CE1	2.48	0.41
2:N5:72:PRO:HD2	1:N6:2:ARG:NH1	2.35	0.41
1:N8:321:MET:HE2	1:N8:363:MET:HG3	2.03	0.41
2:N9:157:LEU:HD23	2:N9:157:LEU:HA	1.88	0.41
1:O0:14:ASN:HD22	1:O0:65:LEU:HD22	1.84	0.41
2:O1:76:ASP:HA	2:O1:79:ARG:HD2	2.02	0.41
2:O1:217:LEU:HD23	2:O1:217:LEU:HA	1.83	0.41
1:O2:3:GLU:HB2	1:O2:130:LEU:HD13	2.02	0.41
1:O4:77:ARG:HH12	37:7Y:22:GLU:HG3	1.84	0.41
2:O7:294:ALA:HA	2:O7:297:GLU:OE1	2.21	0.41
2:P5:42:ILE:CG2	27:7G:217:ILE:HG21	2.50	0.41
1:P6:180:VAL:HG23	1:P6:184:ASN:ND2	2.35	0.41
2:P7:304:LYS:HD2	2:P7:304:LYS:HA	1.74	0.41
1:Q0:66:MET:HE3	1:Q0:116:VAL:HG21	2.02	0.41
2:Q3:188:VAL:O	2:Q3:191:THR:HG22	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q3:200:VAL:HG13	2:Q3:268:MET:CE	2.50	0.41
1:Q6:418:LEU:HD12	1:Q6:418:LEU:HA	1.87	0.41
2:Q9:405:VAL:H	2:Q9:405:VAL:HG22	1.68	0.41
2:R1:290:GLU:OE1	2:R1:290:GLU:N	2.44	0.41
1:R2:154:LYS:HD3	1:R2:154:LYS:HA	1.88	0.41
1:R2:228:LEU:HD23	1:R2:228:LEU:HA	1.83	0.41
1:R4:32:PRO:HG3	11:5E:176:VAL:HG21	2.01	0.41
1:R4:193:VAL:HG23	1:R4:194:GLU:HG2	2.02	0.41
2:R5:397:LEU:HD23	2:R5:397:LEU:HA	1.89	0.41
1:R6:91:VAL:HG11	1:R6:116:VAL:HG22	2.01	0.41
1:R8:86:ARG:HD3	1:R8:88:ASP:OD1	2.20	0.41
1:S0:31:ASP:HB2	1:S0:32:PRO:HD2	2.03	0.41
2:S1:14:ILE:HD11	2:S1:74:VAL:CG1	2.50	0.41
1:S2:19:LYS:HA	1:S2:19:LYS:HD2	1.88	0.41
1:S4:125:GLU:CD	3:3V:66:THR:HG23	2.39	0.41
1:S4:226:ASN:OD1	39:S4:501:GDP:N1	2.53	0.41
1:S4:310:TYR:O	1:S4:342:VAL:HG23	2.20	0.41
2:S5:246:GLY:HA3	2:S5:356:ASN:HA	2.02	0.41
1:S6:244:GLY:H	1:S6:247:ASN:HD21	1.67	0.41
1:S8:113:ILE:HD11	1:S8:151:LEU:HD13	2.03	0.41
1:T2:55:THR:H	1:T2:58:ARG:HB3	1.85	0.41
2:T5:4:VAL:HG23	2:T5:134:GLY:O	2.19	0.41
2:T5:317:LEU:HB3	2:T5:319:TYR:HE1	1.84	0.41
1:T6:101:TRP:HB2	1:T6:184:ASN:OD1	2.19	0.41
1:T6:390:ARG:HE	1:T6:390:ARG:HB2	1.68	0.41
1:T8:44:LEU:O	1:T8:47:ILE:HG12	2.19	0.41
1:U2:107:THR:OG1	1:U2:401:GLU:OE2	2.23	0.41
1:U4:192:LEU:HD23	1:U4:192:LEU:HA	1.86	0.41
1:U6:53:GLU:HG3	1:U6:59:TYR:CE1	2.56	0.41
2:U9:9:ILE:CG1	2:U9:139:ASN:HB3	2.50	0.41
1:V0:282:ARG:HH12	1:V0:284:LEU:HG	1.85	0.41
2:V1:10:GLY:O	2:V1:14:ILE:HG13	2.20	0.41
1:V2:139:LEU:HD23	1:V2:139:LEU:HA	1.89	0.41
1:W0:170:VAL:HG22	1:W0:202:LEU:O	2.21	0.41
2:W1:90:GLU:HA	2:W1:90:GLU:OE2	2.19	0.41
1:W2:95:THR:HG23	1:W2:96:GLY:N	2.35	0.41
2:W5:306:ASP:HB3	2:W5:309:HIS:HD2	1.83	0.41
1:W6:50:TYR:OH	1:W6:237:THR:HG21	2.20	0.41
2:W7:336:LYS:HZ3	2:W7:350:GLY:H	1.68	0.41
2:X3:8:HIS:HE1	2:X3:21:TRP:HE1	1.68	0.41
2:X3:14:ILE:O	2:X3:18:ASN:ND2	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X8:183:TYR:OH	1:X8:388:MET:HB3	2.20	0.41
2:Y1:340:THR:HG23	2:Y1:341:ILE:HG23	2.02	0.41
2:Y1:428:LEU:HA	2:Y1:431:ASP:OD1	2.21	0.41
1:Y2:156:ARG:HD2	1:Y2:156:ARG:HA	1.86	0.41
2:Y3:282:TYR:OH	8:4W:370:VAL:CB	2.68	0.41
2:Y3:413:MET:HB3	2:Y3:417:GLU:OE2	2.21	0.41
1:Y4:3:GLU:HG3	1:Y4:127:CYS:SG	2.60	0.41
1:Y4:143:THR:N	39:Y4:502:GDP:O2B	2.53	0.41
2:Y5:151:SER:HB2	2:Y5:193:SER:OG	2.20	0.41
2:Y9:246:GLY:HA3	2:Y9:356:ASN:HA	2.01	0.41
2:Y9:333:ALA:O	2:Y9:337:THR:HG23	2.19	0.41
1:Z0:46:ARG:HA	1:Z0:46:ARG:HD3	1.81	0.41
1:Z0:177:ASP:OD1	2:Z1:248:LEU:HD21	2.20	0.41
2:Z1:30:ILE:HG12	2:Z1:36:MET:HG2	2.01	0.41
1:Z2:8:GLN:HG2	1:Z2:65:LEU:HA	2.02	0.41
2:Z3:127:ASP:OD1	2:0J:293:ASN:ND2	2.53	0.41
1:Z4:19:LYS:NZ	1:Z4:227:HIS:HD2	2.18	0.41
1:Z4:172:SER:O	1:Z4:176:SER:OG	2.32	0.41
1:Z4:183:TYR:O	1:Z4:187:LEU:HD13	2.20	0.41
1:Z4:385:PHE:HZ	1:Z4:408:PHE:HD1	1.68	0.41
2:Z5:359:PRO:HA	2:Z5:360:PRO:HD3	1.92	0.41
1:Z6:5:VAL:HB	1:Z6:133:PHE:CD1	2.55	0.41
1:Z6:65:LEU:HD22	1:Z6:90:PHE:CE1	2.55	0.41
2:Z7:286:LEU:HG	2:Z7:373:ARG:NH1	2.35	0.41
2:Z9:322:ASP:OD1	2:Z9:322:ASP:N	2.43	0.41
2:0B:275:ILE:O	2:0B:275:ILE:HG23	2.19	0.41
1:0E:150:LEU:HA	1:0E:150:LEU:HD12	1.83	0.41
1:0E:183:TYR:HB3	1:0E:398:TYR:HE2	1.84	0.41
2:0F:305:CYS:SG	2:0F:383:ALA:HB1	2.59	0.41
1:0G:165:LEU:HD23	1:0G:165:LEU:HA	1.93	0.41
1:0K:297:LYS:HA	1:0K:297:LYS:HD3	1.73	0.41
2:0L:73:THR:OG1	2:0L:74:VAL:N	2.54	0.41
2:0N:258:ASN:O	2:0N:259:LEU:HD23	2.20	0.41
1:0O:68:LEU:HD21	1:0O:112:LEU:HD22	2.03	0.41
1:0O:367:PHE:O	1:0O:368:ILE:HD13	2.21	0.41
2:0P:9:ILE:HB	2:0P:139:ASN:HB3	2.02	0.41
1:0S:55:THR:H	1:0S:58:ARG:HB3	1.85	0.41
1:0U:385:PHE:HZ	1:0U:408:PHE:HD1	1.69	0.41
2:0V:119:LEU:HD21	2:0V:156:ARG:HB3	2.03	0.41
2:0V:241:SER:HB2	2:0V:250:VAL:H	1.85	0.41
2:0V:250:VAL:HG23	2:0V:254:GLU:HG3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0W:5:VAL:HB	1:0W:133:PHE:HD1	1.85	0.41
1:0W:117:LEU:HA	1:0W:117:LEU:HD23	1.81	0.41
1:0W:311:LEU:HB3	1:0W:370:ASN:O	2.20	0.41
1:0Y:4:ILE:HB	1:0Y:50:TYR:CE1	2.46	0.41
2:1B:73:THR:HG23	2:1B:74:VAL:N	2.35	0.41
1:1E:70:PRO:N	1:1E:92:PHE:HZ	2.18	0.41
1:1E:153:SER:O	1:1E:157:GLU:HG2	2.20	0.41
1:1E:178:THR:OG1	1:1E:181:GLU:HG3	2.20	0.41
2:1F:137:VAL:HG22	2:1F:168:GLY:HA2	2.02	0.41
1:1G:415:MET:O	1:1G:419:VAL:HG23	2.19	0.41
1:1K:219:THR:O	1:1K:219:THR:OG1	2.35	0.41
2:1L:31:GLN:HE21	2:1L:37:PRO:HG3	1.84	0.41
2:1L:403:ALA:HB2	1:1M:344:TRP:HZ3	1.84	0.41
1:1M:74:ASP:O	1:1M:78:SER:OG	2.29	0.41
1:1O:101:TRP:HE3	1:1O:403:MET:HE1	1.84	0.41
1:1O:232:VAL:HG11	1:1O:268:VAL:HG11	2.02	0.41
1:1O:315:ALA:HB1	1:1O:317:PHE:CE1	2.55	0.41
2:1P:251:ASP:OD2	2:1P:253:THR:N	2.54	0.41
2:1P:297:GLU:H	2:1P:297:GLU:HG2	1.71	0.41
1:1Q:102:ALA:HB1	1:1Q:401:GLU:CB	2.50	0.41
1:1Q:387:ALA:HA	1:1Q:390:ARG:NH2	2.32	0.41
1:1U:21:TRP:CZ2	1:1U:63:ALA:HB2	2.56	0.41
1:1U:395:LEU:O	1:1U:399:THR:HG23	2.20	0.41
2:1V:362:VAL:HG12	2:1V:370:LYS:HE2	2.02	0.41
2:1Z:322:ASP:HB3	2:1Z:373:ARG:HH21	1.85	0.41
1:2A:5:VAL:HG22	1:2A:133:PHE:CD1	2.56	0.41
1:2G:385:PHE:HZ	1:2G:408:PHE:HD1	1.68	0.41
1:2I:91:VAL:CG1	1:2I:116:VAL:HG12	2.49	0.41
1:2I:113:ILE:HG12	1:2I:150:LEU:HG	2.01	0.41
2:2J:101:ASN:ND2	2:2J:143:GLY:HA2	2.35	0.41
1:2K:4:ILE:HB	1:2K:50:TYR:HE1	1.85	0.41
1:2K:235:GLY:HA3	1:2K:366:THR:HG21	2.01	0.41
1:2K:314:SER:HA	1:2K:350:LYS:O	2.19	0.41
2:2L:120:ASP:OD2	38:8C:24:TYR:HD1	2.04	0.41
1:2M:122:LYS:CE	1:3C:291:GLN:HB3	2.50	0.41
2:2N:36:MET:HA	2:2N:37:PRO:HD3	1.91	0.41
2:2N:417:GLU:HA	2:2N:420:GLU:HG2	2.02	0.41
2:2P:56:THR:HA	2:3F:285:GLN:HB2	2.03	0.41
1:2Q:39:ASP:OD1	1:2Q:40:SER:N	2.53	0.41
2:2R:76:ASP:O	2:2R:80:THR:HG23	2.20	0.41
1:2S:2:ARG:HE	1:2S:240:LEU:HD22	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2S:396:HIS:HE1	1:2S:397:TRP:CZ2	2.38	0.41
1:2U:39:ASP:OD2	1:2U:40:SER:N	2.53	0.41
1:2U:290:THR:HG21	1:2U:329:GLN:HG3	2.02	0.41
2:2V:356:ASN:OD1	2:2V:357:TYR:N	2.52	0.41
1:2W:31:ASP:OD1	1:2W:34:GLY:N	2.53	0.41
1:2W:203:ASP:N	1:2W:203:ASP:OD1	2.51	0.41
1:2Y:273:LEU:H	1:2Y:292:GLN:HE22	1.68	0.41
1:3A:304:ASP:HB2	38:8C:45:SER:OG	2.19	0.41
2:3B:294:ALA:HA	2:3B:297:GLU:OE1	2.21	0.41
1:3C:257:LEU:HA	1:3C:312:THR:HG21	2.02	0.41
1:3C:376:GLU:OE2	1:3C:379:LYS:HD3	2.20	0.41
2:3D:8:HIS:CD2	2:3D:17:GLY:HA3	2.55	0.41
2:3D:47:ASP:HA	2:3D:50:ASN:HD21	1.84	0.41
2:3D:340:THR:HG21	38:8D:74:ILE:O	2.21	0.41
1:3G:60:VAL:O	1:3G:60:VAL:HG23	2.21	0.41
2:3H:124:LYS:NZ	3:3X:36:PHE:HA	2.35	0.41
1:3I:39:ASP:OD1	1:3I:39:ASP:N	2.53	0.41
2:3J:177:VAL:HG13	1:3K:327:ASP:HB3	2.01	0.41
2:3J:339:ARG:NH2	2:3J:342:GLN:HB3	2.32	0.41
1:3M:178:THR:OG1	1:3M:179:VAL:N	2.54	0.41
2:3N:116:ASP:OD1	2:3N:116:ASP:N	2.51	0.41
2:3N:194:LEU:HD12	2:3N:194:LEU:HA	1.83	0.41
2:3R:21:TRP:CZ3	2:3R:63:PRO:HB3	2.55	0.41
1:3S:190:HIS:HD2	1:3S:411:ALA:HA	1.81	0.41
1:3S:266:PHE:CE1	1:3S:370:ASN:HB2	2.55	0.41
4:4C:27:LYS:HE3	4:4C:27:LYS:HB3	1.94	0.41
5:4L:466:LEU:CD2	5:4M:139:LEU:HD22	2.50	0.41
7:4Q:320:PHE:CD1	12:7B:91:LEU:HD12	2.54	0.41
7:4U:180:TYR:OH	31:7N:79:PRO:HA	2.19	0.41
9:4Z:237:VAL:O	9:4Z:240:SER:OG	2.29	0.41
9:4Z:331:ARG:HD2	9:4Z:332:GLN:N	2.34	0.41
9:4Z:396:MET:HE2	9:4Z:400:ARG:HD3	2.02	0.41
10:5A:307:GLU:O	10:5A:310:LEU:HG	2.20	0.41
10:5C:284:GLY:HA2	10:5C:287:VAL:HG12	2.02	0.41
10:5C:314:LYS:O	10:5C:317:ILE:HG22	2.20	0.41
11:5E:185:ASP:OD2	11:5E:187:PRO:HD2	2.20	0.41
13:5I:18:ARG:HB3	24:6V:38:GLY:HA2	2.02	0.41
13:5J:6:PRO:HB3	13:5J:40:ARG:O	2.20	0.41
14:5L:92:SER:O	14:5L:94:GLN:N	2.53	0.41
14:5M:92:SER:O	14:5M:94:GLN:N	2.53	0.41
14:5N:92:SER:O	14:5N:94:GLN:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:5N:415:LYS:HZ1	23:6S:22:MET:HB2	1.83	0.41
14:5N:511:THR:HG21	14:5N:531:ASP:OD1	2.19	0.41
15:5P:179:THR:HA	15:5P:193:ARG:NH1	2.35	0.41
16:5Q:20:LYS:HG3	16:5Q:113:PHE:CZ	2.55	0.41
16:5Q:60:HIS:N	16:5Q:60:HIS:CD2	2.87	0.41
17:5T:69:LYS:HA	17:5T:69:LYS:HD3	1.72	0.41
18:5Y:39:TYR:CE1	18:5Y:82:ASP:HB3	2.55	0.41
18:6A:39:TYR:CE1	18:6A:82:ASP:HB3	2.55	0.41
18:6C:39:TYR:CZ	26:7F:24:GLN:OE1	2.73	0.41
20:6F:263:LEU:HA	20:6F:263:LEU:HD23	1.81	0.41
21:6H:137:LEU:N	21:6H:138:PRO:HD2	2.36	0.41
22:6J:274:GLU:O	22:6J:278:GLN:HG2	2.19	0.41
22:6K:264:GLN:HA	24:6V:406:ALA:HB2	2.02	0.41
22:6P:196:ASN:OD1	22:6P:196:ASN:N	2.54	0.41
24:6T:396:LYS:HE3	24:6T:396:LYS:HB2	1.84	0.41
24:6W:93:ARG:HD3	26:7E:45:MET:O	2.19	0.41
24:6W:487:VAL:O	24:6W:488:ARG:C	2.58	0.41
24:6X:185:ASP:O	24:6X:188:THR:OG1	2.32	0.41
24:6X:517:LEU:CD1	24:6X:517:LEU:N	2.72	0.41
24:7A:92:ASP:OD1	24:7A:93:ARG:N	2.52	0.41
29:7J:295:ASN:OD1	29:7J:298:THR:HG23	2.19	0.41
38:8C:59:GLU:OE1	38:8C:60:GLY:N	2.53	0.41
2:8:225:THR:HG21	26:7E:113:ARG:HG2	2.02	0.41
1:G2:314:SER:HA	1:G2:350:LYS:O	2.19	0.41
2:G5:5:ILE:HG22	2:G5:64:ARG:HD3	2.02	0.41
1:G6:216:LYS:HB2	1:G6:275:SER:OG	2.20	0.41
1:G6:271:THR:CG2	1:G6:365:ALA:HB3	2.49	0.41
1:G8:384:GLN:O	1:G8:388:MET:HG2	2.20	0.41
2:H1:90:GLU:HB2	2:H1:121:ARG:HH22	1.85	0.41
1:H2:7:ILE:HD13	1:H2:151:LEU:HD21	2.02	0.41
1:H4:99:ASN:ND2	2:H5:254:GLU:OE1	2.53	0.41
1:H6:414:ASN:HA	1:H6:417:ASP:OD2	2.19	0.41
2:H7:114:ILE:HD12	2:H7:114:ILE:HA	1.83	0.41
2:H7:182:VAL:HG23	2:H7:186:ASN:ND2	2.35	0.41
1:H8:215:LEU:HB3	1:H8:217:LEU:HG	2.03	0.41
1:I0:235:GLY:HA3	1:I0:366:THR:HG21	2.01	0.41
2:I1:415:GLU:OE2	2:I1:415:GLU:N	2.53	0.41
1:I2:198:GLU:HA	1:I2:264:HIS:HB2	2.01	0.41
2:I3:318:MET:HB2	2:I3:376:CYS:HB3	2.02	0.41
1:I4:385:PHE:HZ	1:I4:408:PHE:HD1	1.67	0.41
1:I4:421:GLU:HA	1:I4:424:GLN:HB3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I5:118:ALA:O	2:I5:122:ILE:HG23	2.20	0.41
2:I5:328:VAL:O	2:I5:332:VAL:HG23	2.20	0.41
2:I9:304:LYS:HA	2:I9:304:LYS:HD3	1.89	0.41
2:J1:149:LEU:HA	2:J1:152:LEU:HB3	2.03	0.41
2:J1:203:MET:O	2:J1:204:LEU:HD22	2.21	0.41
2:J3:261:PRO:HG3	2:J3:313:MET:HE2	2.01	0.41
1:J6:50:TYR:OH	1:J6:237:THR:HG21	2.20	0.41
2:J9:279:GLU:OE2	5:4M:267:ASN:ND2	2.53	0.41
2:K3:205:ASP:CG	2:K3:206:ASN:H	2.24	0.41
1:K4:55:THR:HG23	1:M0:282:ARG:O	2.20	0.41
1:K4:183:TYR:HE2	1:K4:394:PHE:HB2	1.85	0.41
2:K5:397:LEU:HD23	2:K5:397:LEU:HA	1.84	0.41
1:K6:203:ASP:OD1	1:K6:203:ASP:N	2.51	0.41
2:K9:209:ILE:HG23	2:K9:230:LEU:HD11	2.02	0.41
2:K9:271:SER:OG	2:K9:377:MET:HB3	2.19	0.41
1:L0:180:VAL:HG23	1:L0:184:ASN:HD21	1.85	0.41
2:L1:211:ASP:OD1	2:L1:214:ARG:NH2	2.53	0.41
1:L4:161:ASP:HB3	1:L4:162:ARG:NH1	2.35	0.41
1:L6:171:PRO:HG3	1:L6:181:GLU:HB3	2.03	0.41
2:M1:370:LYS:NZ	30:7K:275:ASP:OD1	2.53	0.41
1:M2:273:LEU:H	1:M2:292:GLN:HE22	1.68	0.41
2:M3:77:GLU:OE1	1:M4:243:PRO:HB3	2.20	0.41
2:M5:399:TYR:OH	2:M5:415:GLU:OE1	2.19	0.41
1:M8:183:TYR:HB3	1:M8:398:TYR:HE2	1.86	0.41
1:N0:273:LEU:H	1:N0:292:GLN:HE22	1.67	0.41
2:N1:290:GLU:HA	2:N1:293:ASN:HD22	1.85	0.41
1:N2:117:LEU:HA	1:N2:117:LEU:HD23	1.80	0.41
1:N2:152:ILE:HD13	1:N2:152:ILE:HA	1.94	0.41
1:N2:229:ILE:HG22	1:N2:233:MET:SD	2.60	0.41
2:N7:212:ILE:HG23	2:N7:275:ILE:HD12	2.02	0.41
2:N7:305:CYS:HB3	2:N7:387:ILE:HD11	2.01	0.41
1:N8:40:SER:HB3	27:7G:129:LEU:HD13	2.02	0.41
1:N8:170:VAL:HG21	1:N8:377:MET:SD	2.60	0.41
1:N8:350:LYS:NZ	1:N8:351:SER:O	2.43	0.41
2:O1:364:PRO:O	37:7Y:244:SER:HB2	2.20	0.41
1:O2:74:ASP:O	1:O2:78:SER:OG	2.32	0.41
1:O8:95:THR:OG1	1:O8:96:GLY:N	2.53	0.41
2:O9:194:LEU:O	2:O9:198:THR:OG1	2.36	0.41
2:P3:175:PRO:HB3	2:P3:390:ARG:HE	1.85	0.41
2:P7:199:ASP:HB3	2:P7:256:GLN:OE1	2.20	0.41
1:Q0:39:ASP:OD1	1:Q0:39:ASP:N	2.47	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q1:175:PRO:HB3	2:Q1:390:ARG:CZ	2.50	0.41
1:Q4:2:ARG:HE	1:Q4:240:LEU:CD2	2.34	0.41
1:Q6:217:LEU:HD23	1:Q6:217:LEU:HA	1.89	0.41
1:Q8:112:LEU:HD23	1:Q8:112:LEU:HA	1.83	0.41
1:Q8:418:LEU:HG	1:Q8:422:TYR:CE2	2.49	0.41
2:R1:157:LEU:HD12	2:R1:157:LEU:HA	1.92	0.41
1:R2:417:ASP:HA	1:R2:420:SER:HB3	2.02	0.41
1:R4:6:HIS:CE1	1:R4:8:GLN:HG2	2.56	0.41
2:R5:290:GLU:HA	2:R5:293:ASN:HD22	1.86	0.41
2:R7:397:LEU:HD23	2:R7:397:LEU:HA	1.92	0.41
1:R8:7:ILE:HD13	1:R8:151:LEU:HD21	2.02	0.41
1:R8:192:LEU:HD23	1:R8:192:LEU:HA	1.85	0.41
1:S2:2:ARG:HB3	1:S2:131:GLN:HB2	2.02	0.41
1:S4:170:VAL:HG11	1:S4:201:VAL:HG13	2.02	0.41
2:S7:334:THR:O	2:S7:337:THR:HG22	2.20	0.41
1:S8:175:VAL:HG13	1:S8:175:VAL:O	2.20	0.41
1:S8:377:MET:HG3	1:S8:380:ARG:NH2	2.36	0.41
2:S9:105:ARG:HB2	2:S9:411:GLU:HG2	2.02	0.41
2:S9:274:PRO:HD3	2:S9:374:ALA:HA	2.02	0.41
1:T0:244:GLY:N	1:T0:247:ASN:HD21	2.17	0.41
2:T1:195:LEU:HD21	2:T1:264:ARG:HH21	1.85	0.41
1:T6:194:GLU:HB3	3:4H:87:GLY:HA3	2.03	0.41
2:T7:156:ARG:HA	2:T7:159:VAL:HG22	2.02	0.41
1:T8:128:ASP:OD1	1:T8:128:ASP:N	2.45	0.41
2:U3:312:TYR:HB2	2:U3:343:PHE:CD1	2.56	0.41
2:U5:286:LEU:HD23	2:U5:286:LEU:HA	1.84	0.41
2:U9:220:GLU:H	2:U9:220:GLU:CD	2.21	0.41
2:U9:270:SER:OG	2:U9:271:SER:N	2.54	0.41
1:V2:91:VAL:HG21	1:V2:116:VAL:HG12	2.01	0.41
1:V2:309:ARG:H	1:V2:372:THR:CG2	2.33	0.41
2:V7:301:MET:HE1	2:V7:307:PRO:HD3	2.02	0.41
1:W2:178:THR:OG1	1:W2:179:VAL:N	2.52	0.41
1:W2:263:LEU:HD23	1:W2:422:TYR:CE1	2.55	0.41
2:W3:195:LEU:HD23	2:W3:195:LEU:HA	1.84	0.41
1:W4:137:HIS:ND1	1:W4:138:SER:O	2.42	0.41
1:W8:86:ARG:HG2	1:W8:88:ASP:H	1.85	0.41
1:W8:403:MET:HE2	1:W8:403:MET:HB2	1.87	0.41
1:X6:87:PRO:HA	1:X6:90:PHE:CD2	2.55	0.41
1:X6:203:ASP:OD2	1:X6:302:ALA:N	2.53	0.41
1:X8:83:GLN:O	1:Z4:281:TYR:OH	2.33	0.41
1:Y6:148:GLY:O	1:Y6:152:ILE:HG12	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y6:284:LEU:HA	1:Y6:288:GLU:OE1	2.21	0.41
1:Y8:48:ASN:OD1	1:Y8:49:VAL:N	2.53	0.41
1:Z0:293:MET:HA	1:Z0:293:MET:HE3	2.01	0.41
1:Z0:327:ASP:OD2	1:Z0:327:ASP:N	2.53	0.41
1:Z4:24:VAL:HA	1:Z4:27:GLU:OE2	2.19	0.41
1:Z4:332:ASN:ND2	1:Z4:336:LYS:HE3	2.35	0.41
1:0A:423:GLN:NE2	1:0A:426:GLN:OE1	2.51	0.41
2:0B:11:GLN:NE2	2:0B:71:GLU:OE2	2.53	0.41
2:0B:245:ASP:N	2:0B:245:ASP:OD1	2.39	0.41
2:0B:415:GLU:OE1	2:0B:418:PHE:HD2	2.03	0.41
1:0E:172:SER:OG	1:0E:380:ARG:NH1	2.54	0.41
1:0E:226:ASN:O	1:0E:230:SER:HB2	2.20	0.41
1:0G:334:GLN:HE22	1:0G:347:ASN:N	2.18	0.41
1:0G:372:THR:O	1:0G:375:GLN:HG3	2.21	0.41
1:0I:253:LEU:HD23	1:0I:253:LEU:HA	1.90	0.41
2:0J:15:GLN:HB3	2:0J:228:ASN:ND2	2.35	0.41
2:0L:100:ALA:HB1	1:0M:252:LYS:HA	2.01	0.41
2:0N:394:LYS:HB2	1:0O:346:PRO:HG3	2.03	0.41
1:0S:337:ASN:HB3	1:0S:340:TYR:HD2	1.86	0.41
1:0U:58:ARG:HG2	1:1K:280:GLN:HE22	1.86	0.41
2:0V:76:ASP:O	2:0V:80:THR:HG22	2.19	0.41
2:0V:111:GLY:HA2	2:0V:114:ILE:HG22	2.02	0.41
2:0V:319:TYR:HB3	2:0V:323:VAL:HG21	2.02	0.41
2:0X:211:ASP:OD1	2:0X:214:ARG:NH2	2.48	0.41
2:0Z:36:MET:HG3	2:0Z:61:HIS:NE2	2.36	0.41
2:0Z:70:LEU:HD23	2:0Z:70:LEU:HA	1.83	0.41
2:0Z:430:LYS:HA	2:0Z:433:GLU:HG3	2.02	0.41
1:1A:116:VAL:O	1:1A:120:VAL:HG12	2.19	0.41
2:1B:76:ASP:O	2:1B:80:THR:HG22	2.20	0.41
2:1B:336:LYS:NZ	2:1B:350:GLY:H	2.18	0.41
1:1C:152:ILE:HA	1:1C:155:ILE:HG22	2.02	0.41
1:1C:177:ASP:N	1:1C:181:GLU:OE2	2.53	0.41
1:1E:69:GLU:OE2	1:1E:72:THR:HG23	2.21	0.41
2:1F:250:VAL:HG11	2:1F:318:MET:SD	2.61	0.41
1:1G:257:LEU:HD21	1:1G:314:SER:OG	2.21	0.41
1:1O:379:LYS:HG3	1:1O:419:VAL:HG21	2.03	0.41
2:1R:176:GLN:HG2	2:1R:177:VAL:HG23	2.02	0.41
1:1S:137:HIS:O	1:1S:168:SER:HA	2.20	0.41
1:1S:396:HIS:CE1	1:1S:397:TRP:CE2	3.08	0.41
2:1T:312:TYR:CD1	2:1T:381:SER:HB2	2.56	0.41
1:1U:203:ASP:OD1	1:1U:204:ASN:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1V:66:ILE:HG13	2:1V:66:ILE:O	2.20	0.41
2:1X:252:ILE:HD12	2:1X:252:ILE:HA	1.87	0.41
2:1X:289:ALA:O	2:1X:292:THR:OG1	2.34	0.41
1:2A:308:GLY:HA2	1:2A:426:GLN:NE2	2.36	0.41
1:2C:165:LEU:HG	1:2C:250:LEU:HD11	2.02	0.41
1:2C:332:ASN:HB3	1:2C:336:LYS:NZ	2.35	0.41
1:2C:379:LYS:HA	1:2C:382:SER:OG	2.20	0.41
2:2F:119:LEU:HD11	38:8B:73:TRP:HZ2	1.85	0.41
2:2H:21:TRP:CZ3	2:2H:63:PRO:HB3	2.56	0.41
2:2H:113:GLU:N	2:2H:113:GLU:OE1	2.53	0.41
2:2H:405:VAL:O	2:2H:409:VAL:HG23	2.20	0.41
1:2I:70:PRO:HG2	2:2J:2:ARG:HH11	1.85	0.41
2:2J:4:VAL:HG23	2:2J:134:GLY:O	2.19	0.41
1:2K:170:VAL:HG22	1:2K:202:LEU:O	2.21	0.41
1:2K:174:LYS:HB3	1:2K:174:LYS:HE2	1.80	0.41
2:2L:132:LEU:HB3	2:2L:164:LYS:HE3	2.02	0.41
1:2M:327:ASP:OD2	1:2M:328:GLU:N	2.54	0.41
2:2N:102:ASN:HB2	2:2N:407:TRP:CZ2	2.55	0.41
2:2N:227:LEU:O	2:2N:230:LEU:HG	2.21	0.41
2:2P:73:THR:HA	1:2Q:46:ARG:HH21	1.86	0.41
1:2Q:294:TRP:CE2	1:2Q:333:VAL:HG11	2.55	0.41
2:2R:8:HIS:NE2	2:2R:138:PHE:HD2	2.19	0.41
1:2S:36:TYR:CZ	1:2S:44:LEU:HD21	2.56	0.41
1:2S:391:ARG:HH21	2:2T:435:VAL:HA	1.85	0.41
1:2U:257:LEU:HD23	1:2U:312:THR:HG22	2.02	0.41
2:2V:8:HIS:HB2	2:2V:67:PHE:HD1	1.85	0.41
2:2V:370:LYS:HE2	2:2V:370:LYS:HB3	1.92	0.41
1:2W:101:TRP:HE3	1:2W:403:MET:HE1	1.85	0.41
2:2X:60:LYS:HB2	2:2X:60:LYS:HE2	1.83	0.41
2:2X:251:ASP:OD1	2:2X:254:GLU:HG2	2.20	0.41
2:2Z:121:ARG:NH1	2:2Z:121:ARG:HG3	2.35	0.41
1:3A:282:ARG:NH2	1:3A:292:GLN:OE1	2.50	0.41
2:3B:286:LEU:HD12	2:3B:286:LEU:HA	1.77	0.41
2:3B:305:CYS:HB3	2:3B:387:ILE:HD11	2.02	0.41
2:3D:109:THR:HA	2:3D:112:LYS:HE2	2.02	0.41
1:3I:246:LEU:HD23	1:3I:352:SER:HA	2.02	0.41
2:3J:246:GLY:H	2:3J:249:ASN:ND2	2.14	0.41
1:3K:175:VAL:O	1:3K:175:VAL:HG13	2.20	0.41
2:3N:306:ASP:HB3	2:3N:309:HIS:HD2	1.85	0.41
1:3O:48:ASN:N	1:3O:48:ASN:OD1	2.53	0.41
1:3O:52:ASN:OD1	1:3O:62:ARG:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3P:113:GLU:OE2	2:3P:113:GLU:N	2.54	0.41
1:3S:362:LYS:NZ	38:8D:166:GLU:HA	2.36	0.41
2:3T:175:PRO:HB3	2:3T:390:ARG:NE	2.36	0.41
4:3Y:23:GLU:HG3	4:3Y:24:ILE:HG23	2.01	0.41
3:4B:15:ARG:HB2	3:4B:19:LEU:HD12	2.02	0.41
4:4I:36:ARG:CZ	3:4J:260:ILE:HG22	2.50	0.41
7:4Q:322:LYS:HB3	7:4Q:322:LYS:HE2	1.74	0.41
8:4W:399:GLU:HA	8:4W:402:VAL:HG12	2.02	0.41
10:5B:120:GLU:HA	10:5B:123:ILE:HD12	2.02	0.41
13:5I:65:VAL:HA	13:5I:66:PRO:HD3	1.94	0.41
14:5L:434:THR:CG2	14:5L:439:ARG:HB2	2.49	0.41
14:5L:482:ASP:OD1	14:5L:482:ASP:N	2.53	0.41
14:5M:434:THR:CG2	14:5M:439:ARG:HB2	2.49	0.41
14:5M:482:ASP:OD1	14:5M:482:ASP:N	2.52	0.41
14:5N:434:THR:CG2	14:5N:439:ARG:HB2	2.49	0.41
17:5S:178:ARG:CZ	17:5S:232:GLY:O	2.67	0.41
17:5S:205:SER:OG	17:5S:208:LYS:HG3	2.20	0.41
17:5V:179:GLN:HE21	17:5V:179:GLN:CA	2.31	0.41
18:5X:89:GLU:OE2	18:5X:89:GLU:HA	2.19	0.41
18:6A:17:HIS:CE1	18:6A:21:GLN:HG3	2.55	0.41
18:6A:99:LEU:HD11	18:6A:107:VAL:HG11	2.02	0.41
18:6B:17:HIS:CE1	18:6B:21:GLN:HG3	2.55	0.41
18:6B:39:TYR:CE1	18:6B:82:ASP:HB3	2.55	0.41
18:6B:99:LEU:HD11	18:6B:107:VAL:HG11	2.02	0.41
18:6C:17:HIS:CE1	18:6C:21:GLN:HG3	2.55	0.41
18:6C:39:TYR:CE1	18:6C:82:ASP:HB3	2.55	0.41
18:6C:99:LEU:HD11	18:6C:107:VAL:HG11	2.02	0.41
18:6D:99:LEU:HD11	18:6D:107:VAL:HG11	2.02	0.41
20:6F:13:ILE:H	20:6F:16:TRP:HB3	1.85	0.41
22:6I:275:LEU:HD23	22:6I:275:LEU:HA	1.89	0.41
22:6K:190:LEU:HG	22:6K:191:PHE:CD2	2.55	0.41
24:6V:218:GLY:O	24:6V:221:ARG:NE	2.53	0.41
24:6V:316:ASP:OD1	24:6V:317:PRO:HD2	2.20	0.41
24:6Y:372:ASP:HB2	24:6Y:375:THR:HG23	2.03	0.41
24:6Y:437:LYS:HE2	24:6Y:475:MET:O	2.20	0.41
24:7A:103:LYS:HG2	24:7A:116:ILE:HG12	2.01	0.41
29:7I:220:LEU:HD23	29:7I:223:TYR:HD2	1.85	0.41
29:7J:358:LEU:HD23	29:7J:358:LEU:HA	1.83	0.41
36:7V:94:LEU:O	36:7V:97:VAL:HG12	2.20	0.41
36:7W:94:LEU:O	36:7W:97:VAL:HG12	2.20	0.41
28:7X:410:HIS:HA	28:7X:411:PRO:HD2	1.92	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:7X:410:HIS:ND1	28:7X:411:PRO:HD2	2.34	0.41
37:7Y:92:TYR:CZ	37:7Y:108:PRO:HD2	2.55	0.41
37:7Y:169:THR:OG1	37:7Y:170:SER:N	2.53	0.41
38:8A:72:ASP:HA	38:8A:73:TRP:CE3	2.56	0.41
2:8:364:PRO:HB2	26:7E:53:TYR:CD1	2.56	0.41
2:A0:44:GLY:CA	24:6X:124:TYR:OH	2.60	0.41
1:A7:276:ARG:O	24:6T:115:ARG:NH2	2.48	0.41
1:C8:90:PHE:HD2	24:6V:318:PHE:HZ	1.68	0.41
2:G1:251:ASP:OD2	2:G1:254:GLU:HG2	2.20	0.41
2:G3:364:PRO:HB2	22:6M:165:MET:SD	2.60	0.41
1:G6:117:LEU:HA	1:G6:120:VAL:HG12	2.03	0.41
1:G6:148:GLY:O	1:G6:152:ILE:HG12	2.21	0.41
1:G6:292:GLN:HG2	1:G6:298:ASN:ND2	2.35	0.41
1:G8:61:PRO:HG2	1:G8:85:PHE:CE1	2.55	0.41
1:G8:177:ASP:O	2:G9:352:LYS:HA	2.20	0.41
1:G8:314:SER:HA	1:G8:350:LYS:O	2.21	0.41
2:G9:248:LEU:HD12	2:G9:248:LEU:HA	1.82	0.41
1:H2:134:GLN:NE2	1:H2:167:PHE:HE2	2.18	0.41
2:H3:333:ALA:O	2:H3:337:THR:HG23	2.20	0.41
1:H4:6:HIS:CE1	1:H4:8:GLN:HG2	2.55	0.41
1:H8:117:LEU:HA	1:H8:117:LEU:HD23	1.80	0.41
2:H9:124:LYS:HA	2:H9:124:LYS:HD3	1.86	0.41
1:I2:273:LEU:H	1:I2:292:GLN:HE22	1.66	0.41
2:I3:425:LEU:HD23	2:I3:425:LEU:HA	1.87	0.41
2:I7:335:ILE:HD12	2:I7:335:ILE:HA	1.89	0.41
2:I7:384:ILE:HA	2:I7:387:ILE:HD12	2.03	0.41
2:J5:287:SER:HB3	2:J5:290:GLU:OE1	2.20	0.41
1:K4:334:GLN:HA	1:K4:341:PHE:CE2	2.56	0.41
2:K7:175:PRO:HG2	2:K7:176:GLN:OE1	2.19	0.41
1:K8:77:ARG:HH21	1:K8:90:PHE:HD2	1.68	0.41
1:K8:128:ASP:OD1	1:K8:128:ASP:N	2.45	0.41
1:K8:178:THR:OG1	2:K9:258:ASN:ND2	2.54	0.41
1:L0:174:LYS:HE2	1:L0:174:LYS:HB3	1.92	0.41
1:L0:217:LEU:HD23	1:L0:217:LEU:HA	1.95	0.41
1:L2:314:SER:HA	1:L2:350:LYS:O	2.20	0.41
2:L3:9:ILE:HD13	2:L3:150:GLY:HA2	2.01	0.41
1:L4:203:ASP:OD2	1:L4:302:ALA:N	2.54	0.41
2:L5:223:THR:HG23	2:L5:225:THR:H	1.84	0.41
2:L7:234:VAL:HG13	2:L7:376:CYS:SG	2.60	0.41
2:L7:432:PHE:HA	2:L7:435:VAL:HG12	2.02	0.41
2:L9:391:LEU:HD23	2:L9:391:LEU:HA	1.90	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M0:237:THR:O	1:M0:237:THR:HG22	2.21	0.41
2:M1:213:CYS:HA	2:M1:217:LEU:HB2	2.02	0.41
1:M4:48:ASN:N	1:M4:48:ASN:OD1	2.54	0.41
2:M7:238:LEU:HD11	2:M7:255:PHE:CZ	2.56	0.41
2:M7:274:PRO:HD3	2:M7:374:ALA:HA	2.03	0.41
1:M8:154:LYS:HD3	1:M8:154:LYS:HA	1.93	0.41
2:M9:223:THR:OG1	2:M9:224:TYR:N	2.54	0.41
2:M9:325:PRO:HA	2:M9:328:VAL:HG12	2.01	0.41
1:N0:379:LYS:HA	1:N0:382:SER:HG	1.86	0.41
2:N1:88:HIS:HB2	1:O8:281:TYR:CZ	2.55	0.41
1:N2:246:LEU:HD22	1:N2:352:SER:HA	2.03	0.41
1:N2:309:ARG:H	1:N2:372:THR:CG2	2.33	0.41
2:N3:203:MET:O	2:N3:204:LEU:HD22	2.21	0.41
1:N6:167:PHE:HD1	1:N6:200:MET:HB2	1.85	0.41
1:N8:101:TRP:HE3	1:N8:403:MET:HE1	1.85	0.41
2:N9:14:ILE:HG12	2:N9:67:PHE:HB3	2.01	0.41
1:O0:154:LYS:HB2	1:O0:154:LYS:HE2	1.86	0.41
1:O0:309:ARG:NH1	1:O0:341:PHE:O	2.54	0.41
1:O2:95:THR:OG1	1:O2:96:GLY:N	2.52	0.41
2:O3:111:GLY:HA2	2:O3:114:ILE:HG22	2.02	0.41
2:O3:356:ASN:OD1	2:O3:357:TYR:N	2.52	0.41
2:O5:367:ASP:OD2	32:7P:129:ARG:NH1	2.44	0.41
1:O6:273:LEU:H	1:O6:292:GLN:NE2	2.17	0.41
2:O7:70:LEU:HB3	2:O7:97:GLU:O	2.21	0.41
2:O7:102:ASN:HB3	2:O7:105:ARG:HB3	2.02	0.41
2:O9:139:ASN:N	2:O9:139:ASN:OD1	2.54	0.41
2:O9:280:LYS:HA	2:O9:283:HIS:HB3	2.03	0.41
1:P4:3:GLU:O	1:P4:131:GLN:HB3	2.20	0.41
2:P5:249:ASN:HD21	27:7G:184:LYS:H	1.69	0.41
2:P5:326:LYS:HE3	2:P5:326:LYS:HB3	1.75	0.41
1:P8:48:ASN:OD1	1:P8:49:VAL:N	2.53	0.41
1:P8:103:LYS:HA	1:P8:107:THR:OG1	2.20	0.41
2:P9:327:ASP:N	2:P9:327:ASP:OD1	2.54	0.41
2:P9:383:ALA:O	2:P9:386:GLU:HB3	2.21	0.41
2:P9:399:TYR:OH	2:P9:415:GLU:OE1	2.25	0.41
2:Q1:191:THR:HA	2:Q1:194:LEU:HB3	2.02	0.41
1:Q2:68:LEU:HD23	1:Q2:68:LEU:HA	1.85	0.41
2:Q3:54:SER:O	2:Q3:61:HIS:HA	2.20	0.41
1:Q8:135:VAL:HG21	1:Q8:152:ILE:HD11	2.02	0.41
2:R1:22:GLU:HG2	2:R1:83:TYR:OH	2.21	0.41
1:R2:174:LYS:HB3	1:R2:174:LYS:HE2	1.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R3:9:ILE:HG23	2:R3:68:LEU:HD11	2.01	0.41
2:R5:275:ILE:HG13	2:R5:275:ILE:O	2.21	0.41
1:R6:284:LEU:HD13	1:R6:284:LEU:HA	1.93	0.41
1:S0:192:LEU:HD23	1:S0:192:LEU:HA	1.87	0.41
2:S1:370:LYS:HE3	2:S1:370:LYS:HB2	1.85	0.41
1:S2:28:HIS:NE2	1:S2:241:ARG:HD2	2.34	0.41
1:S4:49:VAL:O	1:S4:62:ARG:NH1	2.53	0.41
1:S4:212:PHE:HZ	2:S5:326:LYS:HD3	1.84	0.41
1:S8:337:ASN:HD21	17:5S:48:THR:H	1.69	0.41
2:S9:15:GLN:HB3	2:S9:228:ASN:HD21	1.86	0.41
2:T1:21:TRP:CZ3	2:T1:63:PRO:HB3	2.56	0.41
1:T2:306:ARG:HE	17:5T:52:PRO:HA	1.85	0.41
2:T3:358:GLN:OE1	2:T3:359:PRO:HD2	2.20	0.41
1:T6:135:VAL:HG22	1:T6:137:HIS:HD2	1.85	0.41
1:T6:173:PRO:HD3	1:T6:380:ARG:CZ	2.51	0.41
1:T6:391:ARG:NH1	13:5K:61:LEU:HD21	2.35	0.41
2:T7:236:SER:HA	2:T7:239:THR:HG22	2.02	0.41
2:U1:121:ARG:HD2	2:U1:121:ARG:HA	1.86	0.41
1:U4:145:SER:OG	1:U4:188:SER:OG	2.24	0.41
1:U4:173:PRO:HD2	1:U4:380:ARG:HE	1.85	0.41
1:U6:4:ILE:HB	1:U6:50:TYR:HE1	1.86	0.41
1:U6:20:PHE:HA	1:U6:230:SER:HB3	2.03	0.41
2:U9:69:ASP:OD2	2:U9:70:LEU:N	2.52	0.41
1:V0:42:LEU:HD12	1:V0:42:LEU:HA	1.91	0.41
2:V3:286:LEU:HD12	2:V3:286:LEU:HA	1.78	0.41
1:V4:61:PRO:HG2	1:V4:85:PHE:HE1	1.86	0.41
1:V6:7:ILE:O	1:V6:135:VAL:HA	2.20	0.41
1:V6:58:ARG:HG2	1:X2:280:GLN:NE2	2.33	0.41
1:V8:31:ASP:HB2	1:V8:32:PRO:HD2	2.02	0.41
1:V8:100:ASN:HB3	1:V8:103:LYS:HB2	2.01	0.41
1:V8:173:PRO:HD2	1:V8:380:ARG:CZ	2.50	0.41
1:V8:290:THR:HG21	1:V8:329:GLN:HG3	2.02	0.41
1:W0:318:ARG:HB3	1:W0:357:PRO:HA	2.02	0.41
2:W1:65:CYS:SG	2:W1:66:ILE:N	2.94	0.41
2:W1:301:MET:HE1	2:W1:307:PRO:HD3	2.02	0.41
1:W2:324:LYS:O	1:W2:328:GLU:HG2	2.20	0.41
1:W4:65:LEU:HD12	1:W4:90:PHE:CE1	2.55	0.41
1:W6:45:GLU:HG3	1:W6:46:ARG:HG2	2.03	0.41
2:W7:9:ILE:HD13	2:W7:150:GLY:HA2	2.01	0.41
2:W7:170:THR:OG1	2:W7:203:MET:SD	2.78	0.41
1:X0:60:VAL:HG11	1:Y6:281:TYR:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X0:173:PRO:HD2	1:X0:380:ARG:CZ	2.51	0.41
1:X0:334:GLN:HE22	1:X0:348:ASN:H	1.69	0.41
1:X2:266:PHE:CB	1:X2:368:ILE:HD11	2.51	0.41
2:X3:75:VAL:HG11	2:X3:94:SER:HB3	2.03	0.41
2:X5:9:ILE:HD13	2:X5:150:GLY:HA2	2.02	0.41
1:Y0:46:ARG:HA	1:Y0:46:ARG:HD3	1.86	0.41
2:Y1:141:VAL:O	2:Y1:147:SER:OG	2.37	0.41
1:Y2:46:ARG:HD3	1:Y2:46:ARG:HA	1.82	0.41
1:Y2:49:VAL:O	1:Y2:62:ARG:NH1	2.53	0.41
2:Y3:25:CYS:HB3	2:Y3:30:ILE:HB	2.01	0.41
2:Y3:121:ARG:HD2	2:Y3:121:ARG:HA	1.84	0.41
2:Y5:203:MET:HE3	2:Y5:384:ILE:HG23	2.02	0.41
1:Y8:306:ARG:HH22	1:Y8:310:TYR:HE2	1.67	0.41
2:Y9:99:ALA:HA	2:Y9:105:ARG:HD3	2.02	0.41
1:Z2:192:LEU:HD11	1:Z2:199:CYS:SG	2.61	0.41
1:Z4:206:ALA:O	1:Z4:210:ILE:HG23	2.20	0.41
2:Z5:76:ASP:HA	2:Z5:79:ARG:HG3	2.02	0.41
2:Z5:209:ILE:O	2:Z5:212:ILE:HB	2.19	0.41
2:Z5:383:ALA:O	2:Z5:387:ILE:HG12	2.20	0.41
1:Z6:45:GLU:HG2	1:Z6:46:ARG:HG2	2.01	0.41
2:0B:9:ILE:HD12	2:0B:146:GLY:HA2	2.03	0.41
2:0B:132:LEU:HD21	2:0B:135:PHE:CZ	2.56	0.41
1:0C:24:VAL:HA	1:0C:27:GLU:HG3	2.01	0.41
1:0C:317:PHE:HB2	1:0C:353:VAL:HG12	2.03	0.41
1:0E:137:HIS:O	1:0E:168:SER:HA	2.20	0.41
1:0E:228:LEU:O	1:0E:232:VAL:HG23	2.20	0.41
1:0I:151:LEU:HA	1:0I:151:LEU:HD23	1.75	0.41
2:0J:79:ARG:O	2:0J:84:ARG:HG2	2.20	0.41
2:0J:210:TYR:OH	1:0K:323:THR:OG1	2.35	0.41
1:0O:388:MET:CE	2:0P:348:PRO:HD3	2.50	0.41
2:0P:223:THR:OG1	2:0P:224:TYR:N	2.52	0.41
1:0Q:379:LYS:HA	1:0Q:379:LYS:HD2	1.85	0.41
2:0V:270:SER:OG	2:0V:302:MET:SD	2.78	0.41
2:0V:344:VAL:HG23	2:0V:347:CYS:HB3	2.02	0.41
1:0W:144:GLY:N	39:0W:502:GDP:O1B	2.51	0.41
1:0W:374:ILE:HD11	1:0W:422:TYR:CE1	2.55	0.41
1:0Y:59:TYR:CD2	1:0Y:59:TYR:N	2.88	0.41
2:0Z:139:ASN:N	2:0Z:139:ASN:OD1	2.53	0.41
2:1B:167:LEU:HD11	2:1B:252:ILE:HG23	2.02	0.41
2:1B:205:ASP:O	2:1B:209:ILE:HG13	2.19	0.41
2:1B:274:PRO:HB2	2:1B:276:ILE:HG12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1B:286:LEU:HG	2:1B:371:VAL:HG23	2.02	0.41
2:1D:305:CYS:HB3	2:1D:387:ILE:HD11	2.01	0.41
2:1F:379:SER:OG	2:1F:380:ASN:N	2.54	0.41
1:1G:388:MET:HE1	2:1H:346:TRP:O	2.19	0.41
1:1K:67:ASP:CG	1:1K:68:LEU:H	2.23	0.41
1:1M:24:VAL:HG21	1:1M:50:TYR:HD2	1.85	0.41
1:1M:53:GLU:HB2	1:1M:59:TYR:CE1	2.56	0.41
1:1M:119:VAL:O	1:1M:123:GLU:HG2	2.21	0.41
1:1M:174:LYS:HE2	1:1M:174:LYS:HB3	1.83	0.41
1:1O:12:CYS:O	1:1O:16:ILE:HG23	2.20	0.41
1:1O:208:TYR:HA	1:1O:211:CYS:SG	2.60	0.41
1:1Q:100:ASN:ND2	1:1Q:103:LYS:HB2	2.34	0.41
1:1Q:386:THR:O	1:1Q:390:ARG:HG3	2.20	0.41
2:1R:83:TYR:HB3	2:1R:86:LEU:HB3	2.03	0.41
1:1S:162:ARG:HA	1:1S:162:ARG:HD3	1.79	0.41
1:1U:121:ARG:O	1:1U:125:GLU:HG3	2.20	0.41
2:1V:246:GLY:HA2	2:1V:357:TYR:CD2	2.55	0.41
1:1W:77:ARG:HH21	1:1W:90:PHE:HD2	1.68	0.41
1:1W:148:GLY:O	1:1W:152:ILE:HG12	2.21	0.41
2:1X:90:GLU:HB3	2:2N:283:HIS:CE1	2.56	0.41
2:1Z:62:VAL:CG2	2:1Z:88:HIS:HB2	2.49	0.41
2:2B:246:GLY:HA2	2:2B:357:TYR:CD2	2.55	0.41
2:2B:276:ILE:HD13	2:2B:276:ILE:HA	1.91	0.41
1:2C:167:PHE:CZ	1:2C:233:MET:HG2	2.56	0.41
1:2E:414:ASN:HA	1:2E:417:ASP:OD2	2.21	0.41
2:2F:4:VAL:HG23	2:2F:134:GLY:O	2.20	0.41
2:2F:98:ASP:OD1	2:2F:99:ALA:N	2.53	0.41
2:2F:116:ASP:HB2	38:8B:73:TRP:CZ3	2.56	0.41
2:2F:274:PRO:HB2	2:2F:276:ILE:CG1	2.50	0.41
2:2H:363:VAL:HG23	2:2H:366:GLY:HA3	2.01	0.41
1:2I:116:VAL:O	1:2I:120:VAL:HG12	2.21	0.41
1:2I:165:LEU:HD23	1:2I:165:LEU:HA	1.83	0.41
1:2K:95:THR:HG23	1:2K:96:GLY:N	2.35	0.41
2:2L:137:VAL:HG22	2:2L:168:GLY:HA2	2.01	0.41
2:2P:271:SER:HB2	2:2P:377:MET:HB3	2.00	0.41
1:2Q:101:TRP:HB2	1:2Q:184:ASN:OD1	2.20	0.41
2:2R:88:HIS:CG	2:3H:283:HIS:HA	2.56	0.41
2:2T:213:CYS:HA	2:2T:217:LEU:HB2	2.01	0.41
1:2U:396:HIS:HE1	1:2U:397:TRP:CZ2	2.38	0.41
2:2V:69:ASP:OD1	2:2V:70:LEU:N	2.53	0.41
1:2W:50:TYR:CE2	1:2W:241:ARG:HD3	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2W:174:LYS:HE2	1:2W:174:LYS:HB3	1.86	0.41
2:2Z:62:VAL:HG23	2:2Z:62:VAL:O	2.20	0.41
1:3C:394:PHE:CE2	2:3D:261:PRO:HB3	2.55	0.41
2:3D:119:LEU:HD23	2:3D:119:LEU:HA	1.80	0.41
2:3F:258:ASN:HB2	2:3F:259:LEU:HD12	2.03	0.41
1:3M:70:PRO:N	1:3M:92:PHE:HZ	2.18	0.41
1:3O:69:GLU:O	1:3O:72:THR:OG1	2.39	0.41
1:3Q:178:THR:HG22	2:3R:352:LYS:CE	2.50	0.41
2:3R:184:PRO:O	2:3R:188:VAL:HG13	2.21	0.41
3:3V:8:SER:O	3:3V:12:SER:HB3	2.21	0.41
3:3V:218:LEU:HA	3:3V:218:LEU:HD23	1.84	0.41
4:4C:23:GLU:HG3	4:4C:24:ILE:HG23	2.02	0.41
4:4C:177:LEU:HD12	4:4C:178:PRO:HD2	2.03	0.41
3:4F:8:SER:O	3:4F:12:SER:HB3	2.21	0.41
3:4H:218:LEU:HA	3:4H:218:LEU:HD23	1.84	0.41
5:4M:272:MET:HE3	5:4M:273:GLU:HG3	2.02	0.41
5:4M:305:ALA:O	5:4M:308:GLU:HG3	2.19	0.41
6:4O:352:ARG:HE	6:4O:356:GLU:HG2	1.86	0.41
7:4T:239:SER:O	7:4T:243:THR:HG22	2.21	0.41
8:4W:332:ARG:O	8:4W:336:GLU:HG2	2.20	0.41
8:4W:379:ALA:O	8:4W:382:GLU:HG2	2.20	0.41
9:4Y:349:GLU:O	9:4Y:353:LEU:HD23	2.20	0.41
9:4Z:349:GLU:HA	9:4Z:352:TYR:CD2	2.55	0.41
11:5E:75:LEU:O	11:5E:78:ILE:HG22	2.20	0.41
14:5L:112:SER:HB3	14:5L:155:PHE:CD2	2.55	0.41
14:5L:125:ASP:OD1	14:5L:125:ASP:N	2.48	0.41
14:5M:58:LYS:HB3	14:5M:58:LYS:HE3	1.90	0.41
14:5N:482:ASP:OD1	14:5N:482:ASP:N	2.53	0.41
15:5O:206:HIS:ND1	15:5O:206:HIS:C	2.73	0.41
15:5P:179:THR:HA	15:5P:193:ARG:HH11	1.85	0.41
15:5P:338:LEU:HD12	15:5P:339:ARG:N	2.35	0.41
18:5X:99:LEU:HD11	18:5X:107:VAL:HG11	2.02	0.41
18:5Y:17:HIS:CE1	18:5Y:21:GLN:HG3	2.55	0.41
18:5Z:89:GLU:HA	18:5Z:89:GLU:OE2	2.19	0.41
18:5Z:99:LEU:HD11	18:5Z:107:VAL:HG11	2.02	0.41
18:6B:89:GLU:OE2	18:6B:89:GLU:HA	2.19	0.41
21:6H:48:LYS:HA	21:6H:48:LYS:HD3	1.73	0.41
22:6I:135:ARG:HB2	22:6I:205:GLU:OE1	2.20	0.41
22:6J:96:LYS:HA	22:6J:96:LYS:HD2	1.81	0.41
22:6K:96:LYS:HD3	22:6K:97:PRO:HG2	2.02	0.41
22:6L:291:GLU:OE1	22:6L:292:ARG:HG3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:6M:16:LYS:HG2	22:6M:20:TYR:CD2	2.55	0.41
22:6M:177:LEU:HB3	22:6M:187:MET:CE	2.50	0.41
22:6M:244:VAL:HG11	22:6M:256:TYR:CE2	2.56	0.41
24:6T:156:ASP:N	24:6T:156:ASP:OD2	2.53	0.41
24:6W:107:VAL:HG22	24:6W:108:GLU:N	2.29	0.41
24:6W:218:GLY:O	24:6W:221:ARG:NE	2.50	0.41
24:6W:482:ILE:N	24:6W:482:ILE:CD1	2.83	0.41
24:6X:83:THR:OG1	24:6X:84:LYS:N	2.54	0.41
24:6Y:281:GLU:O	24:6Y:281:GLU:HG2	2.20	0.41
24:6Z:577:VAL:HG21	24:6Z:630:LEU:HD21	2.03	0.41
24:7A:106:VAL:HG12	24:7A:113:ASN:C	2.41	0.41
24:7A:132:VAL:HG12	24:7A:147:PHE:HB3	2.02	0.41
27:7G:184:LYS:HB3	27:7G:184:LYS:HE3	1.81	0.41
27:7G:212:LYS:HG3	27:7G:235:PRO:HG2	2.03	0.41
28:7H:410:HIS:HA	28:7H:411:PRO:HD2	1.92	0.41
30:7K:190:GLN:HG2	30:7K:191:PRO:HD2	2.02	0.41
30:7K:245:LYS:HG2	30:7K:249:ASP:OD1	2.20	0.41
30:7L:272:LEU:HD22	30:7L:276:HIS:CD2	2.56	0.41
32:7P:30:ILE:HG23	32:7P:32:ASN:H	1.85	0.41
32:7P:112:LEU:HD23	32:7P:112:LEU:HA	1.81	0.41
33:7Q:137:LEU:HD13	33:7Q:142:ASP:OD1	2.20	0.41
35:7T:115:MET:HG3	35:7T:117:GLY:H	1.85	0.41
38:8D:166:GLU:N	38:8D:166:GLU:CD	2.73	0.41
1:B3:360:GLY:O	24:6W:108:GLU:HB3	2.21	0.41
2:C1:278:ALA:HB3	18:6D:43:ASN:ND2	2.21	0.41
1:D4:56:GLY:N	22:6N:54:ARG:HD2	2.35	0.41
1:E6:217:LEU:HB3	24:6W:312:ASN:OD1	2.20	0.41
2:E7:12:ALA:HB2	41:E8:501:GTP:C8	2.56	0.41
2:F7:127:ASP:OD2	2:H3:293:ASN:ND2	2.53	0.41
2:G1:204:LEU:HD23	2:G1:302:MET:HB3	2.02	0.41
2:G3:237:SER:HA	2:G3:320:ARG:HD2	2.02	0.41
1:G4:154:LYS:O	1:G4:157:GLU:HG3	2.20	0.41
1:G4:404:ASP:OD1	1:G4:405:GLU:N	2.49	0.41
2:G9:155:GLU:O	2:G9:158:SER:OG	2.29	0.41
2:G9:170:THR:OG1	2:G9:203:MET:HG3	2.19	0.41
2:H1:4:VAL:HG23	2:H1:134:GLY:O	2.21	0.41
2:H1:88:HIS:CE1	2:I7:283:HIS:HA	2.56	0.41
2:H1:391:LEU:HA	2:H1:394:LYS:HG2	2.01	0.41
1:H2:244:GLY:H	1:H2:247:ASN:HD21	1.68	0.41
1:H4:317:PHE:CE2	1:H4:326:VAL:HG13	2.56	0.41
1:H4:322:SER:O	1:H4:326:VAL:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H5:125:LEU:HA	2:H5:125:LEU:HD23	1.81	0.41
2:H5:157:LEU:HD23	2:H5:157:LEU:HA	1.80	0.41
1:H6:2:ARG:HE	1:H6:240:LEU:HD23	1.84	0.41
2:H7:425:LEU:HD23	2:H7:425:LEU:HA	1.88	0.41
1:H8:167:PHE:CE2	1:H8:233:MET:HG2	2.55	0.41
2:H9:26:LEU:HD21	2:H9:364:PRO:HD2	2.02	0.41
1:I0:156:ARG:HA	1:I0:156:ARG:HD2	1.88	0.41
1:I0:208:TYR:OH	2:I1:325:PRO:HB2	2.21	0.41
1:I4:207:LEU:HB3	1:I4:225:LEU:HD22	2.02	0.41
2:I5:319:TYR:HE1	2:I5:375:VAL:HG13	1.86	0.41
2:I9:66:ILE:HG13	2:I9:66:ILE:O	2.19	0.41
2:J3:2:ARG:NH2	16:5Q:175:LEU:HD23	2.35	0.41
2:J3:8:HIS:NE2	2:J3:138:PHE:HD2	2.18	0.41
2:J9:88:HIS:HB3	2:L5:283:HIS:CG	2.55	0.41
1:K0:183:TYR:O	1:K0:187:LEU:HD13	2.20	0.41
1:K0:192:LEU:HD23	1:K0:192:LEU:HA	1.89	0.41
1:K6:152:ILE:HD13	1:K6:152:ILE:HA	1.90	0.41
2:K7:21:TRP:CZ2	2:K7:65:CYS:HB3	2.56	0.41
2:L1:276:ILE:HG23	2:L1:280:LYS:HB2	2.02	0.41
1:L2:8:GLN:CD	1:L2:17:GLY:HA3	2.41	0.41
2:L3:305:CYS:HB3	2:L3:387:ILE:HD11	2.02	0.41
2:L3:372:GLN:HE22	6:4O:415:HIS:CE1	2.39	0.41
1:L4:174:LYS:HB3	1:L4:174:LYS:HE2	1.82	0.41
1:L4:283:ALA:O	1:L4:284:LEU:HD22	2.20	0.41
1:L6:173:PRO:HD2	1:L6:380:ARG:NE	2.35	0.41
2:L7:138:PHE:CE1	2:L7:169:PHE:HB2	2.56	0.41
2:L7:288:VAL:O	2:L7:292:THR:OG1	2.30	0.41
2:M1:133:GLN:HB3	2:M1:252:ILE:HG21	2.03	0.41
1:M2:389:PHE:O	1:M2:392:LYS:NZ	2.34	0.41
1:M4:19:LYS:HB3	1:M4:19:LYS:HE3	1.91	0.41
2:M5:114:ILE:HA	2:M5:114:ILE:HD12	1.84	0.41
2:M5:178:SER:OG	2:M5:183:GLU:OE2	2.25	0.41
2:M5:333:ALA:O	2:M5:337:THR:HG23	2.21	0.41
1:M6:156:ARG:HA	1:M6:156:ARG:HD2	1.89	0.41
2:M9:298:PRO:HA	2:M9:301:MET:HG2	2.03	0.41
1:N0:113:ILE:HD11	1:N0:151:LEU:HA	2.02	0.41
2:N3:397:LEU:HD23	2:N3:397:LEU:HA	1.86	0.41
2:N7:102:ASN:HB3	2:N7:105:ARG:HB3	2.02	0.41
2:N7:174:SER:OG	2:N7:207:GLU:HB2	2.21	0.41
1:N8:175:VAL:O	1:N8:175:VAL:HG13	2.21	0.41
2:N9:345:ASP:OD2	2:N9:345:ASP:N	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N9:407:TRP:O	2:N9:411:GLU:HG2	2.21	0.41
1:O0:3:GLU:HB2	1:O0:130:LEU:HA	2.01	0.41
1:O0:7:ILE:HD13	1:O0:151:LEU:HD21	2.02	0.41
1:O0:8:GLN:CD	1:O0:17:GLY:HA3	2.41	0.41
2:O5:119:LEU:O	2:O5:122:ILE:HG22	2.21	0.41
2:O5:210:TYR:OH	1:O6:323:THR:OG1	2.30	0.41
2:O7:124:LYS:HB3	2:O7:124:LYS:HE2	1.84	0.41
2:O7:217:LEU:HD23	2:O7:217:LEU:HA	1.89	0.41
2:O9:133:GLN:HB3	2:O9:252:ILE:HG21	2.03	0.41
2:O9:334:THR:HA	2:O9:337:THR:HG22	2.02	0.41
2:O9:346:TRP:CD1	2:O9:346:TRP:N	2.88	0.41
2:P3:27:GLU:OE1	2:P3:243:ARG:NH2	2.52	0.41
2:P3:387:ILE:HD12	2:P3:390:ARG:HH22	1.85	0.41
2:P3:425:LEU:HD12	2:P3:425:LEU:HA	1.87	0.41
1:P4:213:ARG:HE	1:P4:297:LYS:HE2	1.83	0.41
1:P4:218:THR:HG23	27:7G:172:GLY:HA2	2.03	0.41
1:P4:314:SER:HA	1:P4:350:LYS:O	2.21	0.41
2:P7:72:PRO:HD2	1:P8:2:ARG:HH12	1.86	0.41
1:P8:309:ARG:H	1:P8:372:THR:HG22	1.86	0.41
2:P9:208:ALA:O	2:P9:212:ILE:HG12	2.19	0.41
2:P9:326:LYS:HE2	2:P9:326:LYS:HB3	1.78	0.41
2:P9:358:GLN:OE1	19:6E:164:GLY:HA3	2.20	0.41
2:P9:417:GLU:HA	2:P9:420:GLU:CG	2.47	0.41
2:Q1:90:GLU:HG3	2:Q1:121:ARG:HH22	1.85	0.41
2:Q3:178:SER:HB3	1:Q4:347:ASN:CG	2.40	0.41
2:Q3:217:LEU:HB3	2:Q3:219:ILE:CD1	2.51	0.41
2:Q3:313:MET:HE3	2:Q3:313:MET:HA	2.02	0.41
1:Q6:87:PRO:HD3	1:S2:281:TYR:CD2	2.54	0.41
1:Q6:140:GLY:O	1:Q6:184:ASN:ND2	2.53	0.41
1:Q8:404:ASP:HB3	1:Q8:406:MET:SD	2.60	0.41
2:Q9:125:LEU:HD23	2:Q9:125:LEU:HA	1.88	0.41
2:Q9:220:GLU:HG2	2:Q9:221:ARG:HG3	2.03	0.41
2:Q9:370:LYS:HB2	2:Q9:370:LYS:HE3	1.83	0.41
2:R1:297:GLU:H	2:R1:297:GLU:HG2	1.74	0.41
2:R3:11:GLN:OE1	2:R3:15:GLN:NE2	2.54	0.41
2:R5:2:ARG:HB2	2:R5:242:LEU:HD22	2.03	0.41
2:R5:35:GLN:N	2:R5:35:GLN:OE1	2.53	0.41
2:R5:155:GLU:HG2	2:R5:197:HIS:HE1	1.86	0.41
2:R5:344:VAL:HG11	2:R5:346:TRP:CE2	2.56	0.41
2:R5:359:PRO:HG3	19:6E:219:PRO:HG3	2.02	0.41
1:R6:8:GLN:OE1	1:R6:17:GLY:HA3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R6:311:LEU:HD23	1:R6:311:LEU:HA	1.88	0.41
1:S0:121:ARG:HD3	17:5U:48:THR:O	2.20	0.41
1:S2:274:THR:HG21	1:S2:282:ARG:NE	2.36	0.41
1:S4:11:GLN:NE2	2:S5:249:ASN:OD1	2.54	0.41
1:S4:221:THR:OG1	1:S4:222:PHE:N	2.53	0.41
2:S5:137:VAL:HG11	2:S5:154:LEU:HD11	2.02	0.41
1:S6:167:PHE:CE2	1:S6:233:MET:HG2	2.56	0.41
1:S6:391:ARG:HG2	2:S7:346:TRP:CE3	2.56	0.41
2:S7:62:VAL:HA	2:S7:63:PRO:HD3	1.91	0.41
2:S7:194:LEU:O	2:S7:198:THR:OG1	2.39	0.41
2:T5:21:TRP:CZ3	2:T5:63:PRO:HB3	2.56	0.41
1:T6:14:ASN:ND2	1:T6:65:LEU:HD23	2.33	0.41
1:T6:403:MET:HE3	1:T6:403:MET:HB2	1.95	0.41
2:T7:12:ALA:HB2	41:T8:501:GTP:C8	2.56	0.41
2:U1:122:ILE:HD13	2:U1:157:LEU:HD21	2.02	0.41
1:U2:286:VAL:HG12	1:U2:329:GLN:HG2	2.01	0.41
2:U3:119:LEU:O	2:U3:122:ILE:HG22	2.21	0.41
2:U5:191:THR:HA	2:U5:194:LEU:HB2	2.02	0.41
1:U6:211:CYS:HB2	1:U6:217:LEU:HD12	2.02	0.41
1:U6:272:PRO:HD3	1:U6:364:SER:HA	2.02	0.41
2:U7:5:ILE:HG22	2:U7:64:ARG:HD3	2.03	0.41
1:U8:117:LEU:HD11	1:U8:154:LYS:HB3	2.03	0.41
2:U9:336:LYS:HE3	2:U9:351:PHE:CD2	2.55	0.41
1:V0:141:GLY:O	1:V0:145:SER:OG	2.22	0.41
2:V1:72:PRO:HG3	1:V2:1:MET:HG3	2.02	0.41
2:V1:312:TYR:HB2	2:V1:343:PHE:CD1	2.56	0.41
2:V1:370:LYS:HD2	2:V1:370:LYS:HA	1.92	0.41
1:V2:101:TRP:HB2	1:V2:184:ASN:OD1	2.20	0.41
2:V3:6:SER:O	2:V3:65:CYS:HA	2.20	0.41
2:V3:145:THR:O	2:V3:149:LEU:HG	2.21	0.41
2:V3:405:VAL:HG23	2:V3:418:PHE:HE2	1.85	0.41
1:V6:24:VAL:HG12	1:V6:28:HIS:HD2	1.86	0.41
1:V6:289:LEU:HD23	1:V6:289:LEU:HA	1.91	0.41
1:V6:317:PHE:HB2	1:V6:353:VAL:HG12	2.03	0.41
1:V6:421:GLU:HA	1:V6:424:GLN:HB3	2.03	0.41
2:V7:21:TRP:CZ2	2:V7:65:CYS:HB2	2.55	0.41
2:V7:53:PHE:HA	2:V7:62:VAL:O	2.21	0.41
2:V7:65:CYS:SG	2:V7:66:ILE:N	2.93	0.41
1:V8:251:ARG:O	1:V8:255:VAL:HG22	2.19	0.41
2:V9:248:LEU:HD22	2:V9:354:GLY:HA2	2.03	0.41
2:V9:298:PRO:HA	2:V9:301:MET:HG3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V9:318:MET:HE2	2:V9:376:CYS:O	2.21	0.41
1:W0:123:GLU:OE1	1:W0:123:GLU:HA	2.21	0.41
2:W1:89:PRO:CG	2:X7:280:LYS:NZ	2.84	0.41
2:W1:406:HIS:CD2	1:W2:261:PRO:HD3	2.56	0.41
1:W2:186:THR:HG22	1:W2:411:ALA:HB1	2.03	0.41
2:W3:5:ILE:HD11	2:W3:135:PHE:HE1	1.85	0.41
2:W5:121:ARG:HA	2:W5:121:ARG:HD2	1.81	0.41
1:W6:7:ILE:O	1:W6:135:VAL:HA	2.20	0.41
1:W6:22:GLU:HG2	1:W6:81:TYR:CD1	2.55	0.41
2:W7:191:THR:HA	2:W7:194:LEU:HB2	2.02	0.41
2:W9:56:THR:HG22	2:Y5:285:GLN:N	2.35	0.41
1:X0:21:TRP:CZ2	1:X0:63:ALA:HB2	2.55	0.41
1:X2:10:GLY:O	1:X2:14:ASN:HB2	2.20	0.41
1:X2:203:ASP:OD2	1:X2:302:ALA:N	2.54	0.41
1:X2:222:PHE:HD1	1:X2:225:LEU:HD12	1.85	0.41
2:X5:103:PHE:HD1	2:X5:147:SER:HB3	1.85	0.41
2:X5:401:LYS:HE3	2:X5:401:LYS:HB3	1.81	0.41
2:X7:70:LEU:HB2	2:X7:98:ASP:HA	2.03	0.41
2:X7:147:SER:OG	2:X7:190:SER:HB2	2.20	0.41
2:X7:311:LYS:HE3	2:X7:344:VAL:HB	2.02	0.41
1:X8:297:LYS:HA	1:X8:297:LYS:HD3	1.92	0.41
2:X9:286:LEU:HD12	2:X9:286:LEU:N	2.35	0.41
2:X9:360:PRO:HD2	2:X9:371:VAL:O	2.20	0.41
1:Y0:336:LYS:HD2	1:Y0:336:LYS:HA	1.75	0.41
1:Y2:224:ASP:N	1:Y2:224:ASP:OD1	2.49	0.41
2:Y3:246:GLY:HA2	2:Y3:357:TYR:CD2	2.55	0.41
1:Y4:207:LEU:HD23	1:Y4:225:LEU:HB3	2.02	0.41
2:Y5:79:ARG:NH1	2:Y5:94:SER:OG	2.53	0.41
1:Z2:5:VAL:HG22	1:Z2:62:ARG:HD3	2.02	0.41
2:Z5:62:VAL:HA	2:Z5:63:PRO:HD3	1.95	0.41
2:Z5:117:LEU:HD12	2:Z5:117:LEU:HA	1.86	0.41
2:Z5:183:GLU:OE1	2:Z5:184:PRO:HD3	2.19	0.41
1:Z6:105:HIS:NE2	1:Z6:150:LEU:HD13	2.35	0.41
1:0A:179:VAL:HG13	2:0B:349:THR:O	2.20	0.41
1:0A:310:TYR:HB2	1:0A:341:PHE:CD1	2.55	0.41
2:0F:115:VAL:HG23	2:0F:153:LEU:HD13	2.02	0.41
2:0F:398:MET:HE1	1:0G:345:ILE:HA	2.03	0.41
1:0G:19:LYS:HE3	1:0G:19:LYS:HB3	1.79	0.41
1:0G:113:ILE:HD13	1:0G:150:LEU:CD2	2.42	0.41
2:0H:166:LYS:HE2	2:0H:166:LYS:HB2	1.95	0.41
1:0I:219:THR:O	1:0I:219:THR:OG1	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0I:286:VAL:CG2	1:0I:287:PRO:HD3	2.50	0.41
2:0J:325:PRO:HA	2:0J:328:VAL:HG12	2.03	0.41
1:0K:91:VAL:HG11	1:0K:116:VAL:HG12	2.02	0.41
1:0K:199:CYS:SG	1:0K:200:MET:N	2.93	0.41
1:0K:233:MET:HA	1:0K:236:ILE:HG22	2.02	0.41
2:0N:53:PHE:HB3	2:0N:61:HIS:HB3	2.02	0.41
2:0P:288:VAL:O	2:0P:292:THR:OG1	2.25	0.41
2:0R:207:GLU:OE2	2:0R:304:LYS:HG2	2.20	0.41
1:0S:19:LYS:HE3	1:0S:19:LYS:HB3	1.89	0.41
1:0S:117:LEU:HD13	1:0S:154:LYS:HD3	2.01	0.41
1:0W:414:ASN:HA	1:0W:417:ASP:OD2	2.21	0.41
2:0X:56:THR:OG1	2:1N:285:GLN:HB2	2.20	0.41
1:1A:117:LEU:HA	1:1A:117:LEU:HD23	1.75	0.41
2:1B:217:LEU:HD13	2:1B:367:ASP:OD1	2.20	0.41
1:1C:5:VAL:HG12	1:1C:133:PHE:HD1	1.85	0.41
1:1C:270:PHE:CD2	1:1C:273:LEU:HD21	2.45	0.41
2:1F:289:ALA:O	2:1F:293:ASN:ND2	2.53	0.41
1:1G:414:ASN:HA	1:1G:417:ASP:OD2	2.20	0.41
2:1H:264:ARG:NH1	2:1H:431:ASP:OD2	2.45	0.41
2:1L:195:LEU:HD21	2:1L:264:ARG:HD2	2.02	0.41
2:1N:101:ASN:ND2	2:1N:143:GLY:HA2	2.36	0.41
2:1N:221:ARG:HB3	1:1O:322:SER:HB2	2.02	0.41
2:1N:403:ALA:HB2	1:1O:344:TRP:HZ3	1.85	0.41
1:1O:135:VAL:HG12	1:1O:137:HIS:HD2	1.85	0.41
2:1P:139:ASN:OD1	2:1P:170:THR:HG22	2.21	0.41
2:1X:119:LEU:HA	2:1X:122:ILE:HG22	2.03	0.41
2:1X:223:THR:OG1	2:1X:224:TYR:N	2.54	0.41
1:2A:65:LEU:HD12	1:2A:90:PHE:CE1	2.55	0.41
2:2D:155:GLU:HG3	2:2D:197:HIS:NE2	2.35	0.41
2:2H:425:LEU:HD23	2:2H:425:LEU:HA	1.87	0.41
1:2I:314:SER:HA	1:2I:350:LYS:O	2.21	0.41
1:2I:359:LYS:HD2	1:2I:359:LYS:HA	1.84	0.41
2:2J:179:THR:O	1:2K:350:LYS:HD2	2.20	0.41
1:2K:10:GLY:HA2	1:2K:143:THR:HG23	2.02	0.41
1:2K:286:VAL:CG2	1:2K:287:PRO:HD3	2.49	0.41
2:2L:224:TYR:CD1	1:2M:323:THR:HG21	2.56	0.41
2:2P:76:ASP:O	2:2P:80:THR:HG22	2.20	0.41
2:2P:181:VAL:HG23	2:2P:182:VAL:HG13	2.01	0.41
2:2P:262:TYR:HB2	2:2P:265:ILE:CG1	2.42	0.41
1:2S:22:GLU:HG2	1:2S:81:TYR:CD2	2.55	0.41
2:2V:199:ASP:OD2	2:2V:256:GLN:HG2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2X:143:GLY:O	2:2X:147:SER:OG	2.31	0.41
1:2Y:213:ARG:HD2	38:8C:108:PHE:CE2	2.55	0.41
2:2Z:121:ARG:HH11	2:2Z:121:ARG:HG3	1.81	0.41
1:3A:244:GLY:H	1:3A:247:ASN:HD21	1.68	0.41
2:3B:121:ARG:C	2:3B:121:ARG:CD	2.88	0.41
2:3B:395:PHE:CE2	2:3B:422:ARG:HD3	2.56	0.41
1:3C:145:SER:OG	1:3C:146:GLY:N	2.53	0.41
2:3F:271:SER:OG	2:3F:272:TYR:N	2.53	0.41
1:3G:6:HIS:CE1	1:3G:8:GLN:HG2	2.56	0.41
1:3I:4:ILE:HB	1:3I:50:TYR:HE1	1.84	0.41
2:3J:271:SER:OG	2:3J:272:TYR:N	2.54	0.41
1:3M:19:LYS:HE3	1:3M:19:LYS:HB3	1.89	0.41
2:3N:3:GLU:HG3	2:3N:51:THR:HA	2.02	0.41
2:3P:55:GLU:OE2	2:3P:59:GLY:N	2.53	0.41
2:3R:33:ASP:N	2:3R:33:ASP:OD1	2.53	0.41
4:3W:177:LEU:HD12	4:3W:178:PRO:HD2	2.03	0.41
3:3X:8:SER:O	3:3X:12:SER:HB3	2.21	0.41
4:3Y:27:LYS:HE3	4:3Y:27:LYS:HB3	1.94	0.41
4:3Y:95:ASP:OD1	4:3Y:99:VAL:HG22	2.20	0.41
4:3Y:177:LEU:HD12	4:3Y:178:PRO:HD2	2.03	0.41
3:3Z:8:SER:O	3:3Z:12:SER:HB3	2.21	0.41
3:3Z:130:LEU:HA	3:3Z:131:PRO:HD3	1.95	0.41
4:4A:95:ASP:OD1	4:4A:99:VAL:HG22	2.20	0.41
4:4A:177:LEU:HD12	4:4A:178:PRO:HD2	2.03	0.41
4:4C:95:ASP:OD1	4:4C:99:VAL:HG22	2.20	0.41
4:4E:95:ASP:OD1	4:4E:99:VAL:HG22	2.20	0.41
4:4E:177:LEU:HD12	4:4E:178:PRO:HD2	2.03	0.41
4:4G:177:LEU:HD12	4:4G:178:PRO:HD2	2.03	0.41
4:4I:177:LEU:HD12	4:4I:178:PRO:HD2	2.03	0.41
3:4J:189:SER:O	3:4J:189:SER:OG	2.32	0.41
6:4P:116:ASP:OD2	6:4P:117:ARG:N	2.53	0.41
7:4R:4:LEU:HD12	7:4R:4:LEU:HA	1.84	0.41
7:4R:245:ASP:OD1	7:4R:245:ASP:N	2.53	0.41
7:4S:13:PRO:HG2	7:4S:14:GLU:OE2	2.21	0.41
9:4Z:327:ILE:HG13	9:4Z:328:ASP:N	2.34	0.41
10:5C:328:LEU:HD23	10:5C:328:LEU:HA	1.90	0.41
10:5C:497:MET:O	10:5C:497:MET:HG3	2.17	0.41
15:5O:227:TYR:CD1	15:5O:227:TYR:O	2.73	0.41
16:5Q:173:ARG:HH11	16:5Q:173:ARG:CG	2.09	0.41
17:5S:126:GLN:HB3	17:5S:129:GLN:NE2	2.36	0.41
17:5T:126:GLN:HB3	17:5T:129:GLN:NE2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:5U:69:LYS:HA	17:5U:69:LYS:HD3	1.72	0.41
17:5U:126:GLN:HB3	17:5U:129:GLN:NE2	2.36	0.41
18:5Y:89:GLU:HA	18:5Y:89:GLU:OE2	2.19	0.41
18:5Y:99:LEU:HD11	18:5Y:107:VAL:HG11	2.02	0.41
18:5Z:17:HIS:CE1	18:5Z:21:GLN:HG3	2.55	0.41
18:6C:89:GLU:OE2	18:6C:89:GLU:HA	2.19	0.41
18:6D:17:HIS:CE1	18:6D:21:GLN:HG3	2.55	0.41
18:6D:89:GLU:HA	18:6D:89:GLU:OE2	2.19	0.41
19:6E:92:ARG:HG3	19:6E:99:ARG:CD	2.50	0.41
21:6H:111:VAL:HG23	24:6X:81:THR:HG22	2.03	0.41
21:6H:111:VAL:HG12	24:6X:82:ALA:O	2.21	0.41
22:6N:65:ARG:HH11	22:6N:101:ASN:HB2	1.85	0.41
22:6O:321:LEU:HD12	22:6O:321:LEU:HA	1.78	0.41
24:6T:119:VAL:HG21	24:6T:179:PHE:CD1	2.55	0.41
24:6U:130:MET:HG3	24:6U:153:VAL:HG22	2.02	0.41
24:6U:190:GLU:HG3	24:6U:191:PHE:N	2.36	0.41
24:6U:612:LEU:HD12	24:6U:612:LEU:HA	1.84	0.41
24:6V:343:ARG:HB2	24:6V:345:ASP:OD2	2.21	0.41
24:6V:435:LEU:HA	24:6V:438:LEU:HB2	2.01	0.41
24:6V:485:PRO:HA	24:6V:486:PRO:HD3	1.90	0.41
24:6W:263:ARG:HG2	24:6W:263:ARG:HH21	1.85	0.41
24:6W:615:ARG:HG2	24:6W:616:LEU:HD23	2.02	0.41
24:6X:451:LYS:CE	24:6X:468:ARG:NH1	2.71	0.41
24:6Y:9:PRO:HB2	24:6Y:11:LEU:HD23	2.01	0.41
24:6Y:138:ASP:OD1	24:6Y:139:ASN:N	2.52	0.41
24:6Y:273:LEU:HA	24:6Y:375:THR:HG22	2.01	0.41
24:6Y:376:LYS:HA	24:6Y:390:MET:HE2	2.03	0.41
28:7H:404:HIS:CE1	28:7H:406:PRO:HB3	2.55	0.41
35:7T:147:ASN:O	35:7T:150:ILE:HG22	2.20	0.41
35:7U:125:SER:O	35:7U:128:VAL:HG22	2.20	0.41
35:7U:221:GLN:O	35:7U:224:GLU:HG3	2.21	0.41
36:7W:102:MET:O	36:7W:102:MET:SD	2.78	0.41
38:8A:122:LYS:HA	38:8A:125:ASN:ND2	2.34	0.41
38:8A:194:GLU:O	38:8A:196:MET:HG2	2.21	0.41
38:8D:112:ILE:O	38:8D:116:GLN:HG2	2.20	0.41
2:2:42:ILE:HD12	24:6T:93:ARG:HB3	2.02	0.41
1:9:217:LEU:HD11	26:7E:136:PHE:HB3	2.02	0.41
2:B4:143:GLY:HA3	41:B5:501:GTP:O2B	2.20	0.41
2:D7:285:GLN:HG3	24:6Z:256:LEU:HD11	2.02	0.41
2:E5:357:TYR:CE2	22:6K:97:PRO:HD3	2.55	0.41
2:F5:11:GLN:HB3	41:F5:501:GTP:PA	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G2:2:ARG:O	1:G2:49:VAL:HG23	2.20	0.41
2:G3:53:PHE:HB3	2:G3:61:HIS:HB3	2.03	0.41
2:G3:176:GLN:HG2	2:G3:177:VAL:N	2.35	0.41
2:G9:119:LEU:HD23	2:G9:119:LEU:HA	1.93	0.41
2:G9:338:LYS:HD2	2:G9:338:LYS:HA	1.90	0.41
2:H3:9:ILE:HD13	2:H3:150:GLY:HA2	2.02	0.41
1:H6:240:LEU:HD11	1:H6:250:LEU:HD13	2.03	0.41
1:I0:49:VAL:HG11	1:I0:241:ARG:HG2	2.02	0.41
2:I1:100:ALA:CB	1:I2:252:LYS:HB3	2.49	0.41
2:I1:191:THR:HA	2:I1:194:LEU:HB3	2.03	0.41
1:I4:198:GLU:HA	1:I4:264:HIS:HB2	2.02	0.41
2:I5:286:LEU:HD12	2:I5:286:LEU:HA	1.80	0.41
2:I5:387:ILE:HA	2:I5:390:ARG:NH1	2.36	0.41
2:I7:287:SER:H	2:I7:290:GLU:CD	2.19	0.41
2:I7:395:PHE:CE2	2:I7:422:ARG:HD3	2.56	0.41
1:I8:389:PHE:O	1:I8:392:LYS:NZ	2.33	0.41
1:I8:404:ASP:OD1	1:I8:405:GLU:N	2.49	0.41
2:J1:186:ASN:O	2:J1:190:SER:OG	2.29	0.41
1:J4:101:TRP:HE3	1:J4:403:MET:HE1	1.86	0.41
2:J5:27:GLU:HG2	2:J5:361:THR:HG21	2.02	0.41
2:J5:55:GLU:OE2	2:J5:59:GLY:N	2.54	0.41
2:J7:85:GLN:O	2:L3:283:HIS:NE2	2.23	0.41
2:K1:29:GLY:HA2	28:7X:402:ARG:HH22	1.84	0.41
2:K1:404:PHE:CZ	2:K1:408:TYR:HE2	2.39	0.41
2:K3:172:TYR:CZ	2:K3:203:MET:SD	3.13	0.41
1:K4:250:LEU:HD23	1:K4:250:LEU:HA	1.77	0.41
1:K6:273:LEU:H	1:K6:292:GLN:NE2	2.19	0.41
1:K8:173:PRO:HB3	1:K8:384:GLN:HE22	1.86	0.41
1:K8:178:THR:CG2	1:K8:181:GLU:HG3	2.51	0.41
2:K9:125:LEU:HD23	2:K9:125:LEU:HA	1.89	0.41
1:L0:140:GLY:O	1:L0:184:ASN:ND2	2.52	0.41
2:L1:88:HIS:ND1	2:L1:89:PRO:HD2	2.35	0.41
2:L1:227:LEU:O	2:L1:231:ILE:HG12	2.20	0.41
2:L3:76:ASP:O	2:L3:80:THR:HG23	2.20	0.41
2:L3:201:ALA:O	2:L3:268:MET:HE2	2.20	0.41
1:L4:212:PHE:HZ	2:L5:326:LYS:HG3	1.86	0.41
1:L4:273:LEU:H	1:L4:292:GLN:NE2	2.17	0.41
1:L4:338:SER:H	35:7U:147:ASN:HD22	1.69	0.41
2:L5:152:LEU:HA	2:L5:155:GLU:OE2	2.21	0.41
1:L6:165:LEU:HD23	1:L6:167:PHE:CZ	2.55	0.41
2:L9:69:ASP:OD1	2:L9:70:LEU:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M1:204:LEU:HD22	2:M1:231:ILE:HD12	2.03	0.41
2:M1:216:SER:OG	2:M1:217:LEU:N	2.54	0.41
2:M1:245:ASP:OD1	2:M1:245:ASP:N	2.46	0.41
1:M2:3:GLU:HG3	1:M2:127:CYS:SG	2.61	0.41
1:M2:39:ASP:OD1	1:M2:39:ASP:N	2.50	0.41
1:M2:183:TYR:O	1:M2:187:LEU:HD13	2.21	0.41
2:M3:362:VAL:HG12	2:M3:363:VAL:N	2.35	0.41
2:M3:395:PHE:CE2	2:M3:422:ARG:HD3	2.55	0.41
1:M4:165:LEU:CD2	1:M4:250:LEU:HD21	2.49	0.41
2:M5:326:LYS:HE2	2:M5:326:LYS:HB3	1.90	0.41
1:M6:309:ARG:NH1	1:M6:339:SER:O	2.54	0.41
2:M7:42:ILE:H	2:M7:42:ILE:HG13	1.64	0.41
1:M8:220:PRO:HG2	2:M9:326:LYS:HB2	2.03	0.41
2:M9:79:ARG:HH12	2:M9:94:SER:HB3	1.85	0.41
2:M9:274:PRO:HB2	2:M9:276:ILE:CG1	2.50	0.41
1:N0:91:VAL:CG1	1:N0:116:VAL:HG12	2.50	0.41
1:N0:382:SER:HB3	1:N0:415:MET:HG2	2.03	0.41
2:N1:175:PRO:HB3	2:N1:390:ARG:HD2	2.02	0.41
1:N2:19:LYS:HB3	1:N2:19:LYS:HE3	1.84	0.41
2:N3:60:LYS:HA	2:N3:60:LYS:HD2	1.86	0.41
2:N3:111:GLY:O	2:N3:115:VAL:HG12	2.20	0.41
2:N3:217:LEU:HD13	2:N3:367:ASP:OD1	2.21	0.41
2:N7:247:ALA:HB2	2:N7:357:TYR:CZ	2.56	0.41
1:N8:69:GLU:OE2	1:N8:69:GLU:N	2.54	0.41
2:N9:90:GLU:OE1	2:N9:90:GLU:CA	2.67	0.41
1:O4:62:ARG:HG3	1:O4:123:GLU:HG3	2.03	0.41
1:O4:396:HIS:CD2	1:O4:396:HIS:H	2.39	0.41
1:O8:135:VAL:HG12	1:O8:137:HIS:HD2	1.86	0.41
2:P3:14:ILE:HD11	2:P3:74:VAL:CG1	2.50	0.41
1:P4:232:VAL:O	1:P4:236:ILE:HG12	2.19	0.41
2:P5:239:THR:HG23	2:P5:243:ARG:HE	1.86	0.41
2:P5:434:GLU:OE2	2:P5:435:VAL:HG23	2.21	0.41
1:P6:28:HIS:NE2	1:P6:241:ARG:HD2	2.36	0.41
1:P6:292:GLN:HG2	1:P6:298:ASN:ND2	2.36	0.41
2:P7:320:ARG:O	2:P7:373:ARG:HA	2.20	0.41
2:P7:342:GLN:HE21	2:P7:342:GLN:HB2	1.67	0.41
1:P8:284:LEU:HA	1:P8:284:LEU:HD23	1.75	0.41
1:P8:313:ALA:HA	1:P8:369:GLY:HA2	2.02	0.41
2:P9:195:LEU:HD12	2:P9:195:LEU:HA	1.82	0.41
2:P9:377:MET:HG2	2:P9:378:ILE:N	2.35	0.41
1:Q0:174:LYS:HD3	1:Q0:205:GLU:OE1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q1:217:LEU:HD13	2:Q1:367:ASP:OD2	2.19	0.41
2:Q1:312:TYR:HB2	2:Q1:343:PHE:CD1	2.55	0.41
1:Q2:12:CYS:HB3	1:Q2:138:SER:HB2	2.02	0.41
1:Q2:383:GLU:OE2	1:Q2:384:GLN:HG3	2.21	0.41
2:Q5:179:THR:O	1:Q6:350:LYS:HG2	2.20	0.41
1:Q8:152:ILE:HD13	1:Q8:152:ILE:HA	1.90	0.41
2:Q9:261:PRO:HG3	2:Q9:313:MET:HE2	2.02	0.41
2:R1:322:ASP:HA	7:4R:15:ARG:HH22	1.85	0.41
1:R6:228:LEU:HD23	1:R6:228:LEU:HA	1.82	0.41
1:R8:287:PRO:HA	1:R8:290:THR:HG22	2.01	0.41
1:S0:289:LEU:HD22	1:S0:363:MET:HG2	2.03	0.41
2:S1:137:VAL:HG13	2:S1:168:GLY:HA2	2.02	0.41
1:S4:27:GLU:OE1	1:S4:241:ARG:NH1	2.48	0.41
1:S6:287:PRO:HB3	13:5H:100:MET:SD	2.61	0.41
1:S8:309:ARG:H	1:S8:372:THR:CG2	2.31	0.41
1:S8:414:ASN:ND2	3:3Z:84:LYS:HD2	2.35	0.41
2:T1:79:ARG:O	2:T1:84:ARG:HG2	2.21	0.41
2:T1:282:TYR:HE1	7:4U:31:LYS:HG3	1.86	0.41
1:T2:337:ASN:ND2	17:5T:48:THR:H	2.19	0.41
2:T5:8:HIS:CD2	2:T5:138:PHE:HD2	2.39	0.41
2:T5:305:CYS:HB3	2:T5:387:ILE:HD11	2.03	0.41
2:T7:305:CYS:HB3	2:T7:387:ILE:HD11	2.02	0.41
2:T7:342:GLN:NE2	13:5K:74:ASN:HD21	2.18	0.41
1:T8:3:GLU:OE1	1:T8:62:ARG:NH1	2.54	0.41
1:T8:101:TRP:HB2	1:T8:184:ASN:OD1	2.20	0.41
1:T8:121:ARG:NH2	1:T8:158:GLU:OE2	2.44	0.41
1:T8:309:ARG:H	1:T8:372:THR:HG22	1.84	0.41
1:U2:310:TYR:N	1:U2:340:TYR:O	2.47	0.41
2:U3:205:ASP:OD2	2:U3:303:VAL:HG13	2.20	0.41
1:U6:273:LEU:H	1:U6:292:GLN:NE2	2.14	0.41
2:U7:242:LEU:HD11	2:U7:251:ASP:HA	2.03	0.41
1:U8:218:THR:HG23	1:U8:219:THR:H	1.84	0.41
1:V2:272:PRO:HD3	1:V2:364:SER:HA	2.03	0.41
2:V3:75:VAL:HG11	2:V3:94:SER:HB2	2.03	0.41
2:V3:177:VAL:HG13	1:V4:327:ASP:HB3	2.03	0.41
1:V6:163:MET:HE3	1:V6:164:MET:H	1.85	0.41
1:V8:140:GLY:HA3	1:V8:181:GLU:OE2	2.20	0.41
2:W1:3:GLU:HG3	2:W1:51:THR:HA	2.02	0.41
1:W2:161:ASP:OD1	1:W2:162:ARG:NH1	2.54	0.41
2:W5:88:HIS:HB3	2:W5:91:GLN:CG	2.50	0.41
1:W6:145:SER:OG	1:W6:188:SER:OG	2.31	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W6:219:THR:O	1:W6:219:THR:OG1	2.35	0.41
1:W8:6:HIS:O	1:W8:63:ALA:HA	2.20	0.41
1:W8:68:LEU:HD23	1:W8:93:GLY:HA3	2.02	0.41
2:W9:31:GLN:HE21	2:W9:37:PRO:HG3	1.85	0.41
1:X2:105:HIS:NE2	1:X2:150:LEU:HD13	2.36	0.41
1:X2:128:ASP:OD1	1:X2:128:ASP:N	2.46	0.41
1:X2:252:LYS:HD2	1:X2:252:LYS:N	2.34	0.41
2:X3:143:GLY:HA3	41:X4:501:GTP:O2B	2.21	0.41
2:X3:149:LEU:HA	2:X3:152:LEU:HB3	2.01	0.41
1:X4:312:THR:OG1	1:X4:313:ALA:N	2.54	0.41
2:X5:21:TRP:CZ3	2:X5:63:PRO:HB3	2.55	0.41
2:X7:89:PRO:HD2	2:Z3:280:LYS:HZ1	1.85	0.41
1:Y0:295:ASP:HB3	1:Y0:298:ASN:HB2	2.03	0.41
2:Y1:26:LEU:HD21	2:Y1:363:VAL:HG12	2.02	0.41
2:Y1:203:MET:HE1	2:Y1:303:VAL:HG11	2.02	0.41
2:Y1:209:ILE:HD13	2:Y1:231:ILE:HD11	2.02	0.41
1:Y2:170:VAL:HG22	1:Y2:202:LEU:O	2.20	0.41
1:Y2:183:TYR:O	1:Y2:187:LEU:HD13	2.21	0.41
1:Y8:133:PHE:HD2	1:Y8:164:MET:HE2	1.86	0.41
2:Y9:312:TYR:HD2	2:Y9:343:PHE:HE1	1.66	0.41
1:Z0:101:TRP:CZ3	1:Z0:187:LEU:HD23	2.56	0.41
1:Z0:179:VAL:HG12	2:Z1:349:THR:O	2.21	0.41
2:Z1:187:SER:O	2:Z1:191:THR:HG23	2.20	0.41
1:Z2:246:LEU:O	1:Z2:352:SER:OG	2.30	0.41
2:Z3:209:ILE:HD11	2:Z3:231:ILE:HD11	2.03	0.41
1:Z6:21:TRP:CH2	1:Z6:61:PRO:HB3	2.56	0.41
1:Z6:69:GLU:HG2	1:Z6:72:THR:HG23	2.03	0.41
2:Z7:407:TRP:O	2:Z7:411:GLU:HG2	2.20	0.41
1:Z8:25:SER:OG	1:Z8:30:ILE:HG23	2.20	0.41
1:Z8:65:LEU:HD13	1:Z8:90:PHE:HD1	1.86	0.41
1:Z8:140:GLY:O	1:Z8:184:ASN:ND2	2.54	0.41
1:Z8:156:ARG:HD2	1:Z8:156:ARG:HA	1.84	0.41
1:Z8:383:GLU:OE2	1:Z8:384:GLN:HG3	2.20	0.41
2:0B:269:LEU:N	2:0B:379:SER:O	2.54	0.41
2:0B:391:LEU:HD23	2:0B:391:LEU:HA	1.93	0.41
1:0C:39:ASP:N	1:0C:39:ASP:OD1	2.53	0.41
1:0E:199:CYS:HG	1:0E:265:PHE:HD1	1.66	0.41
1:0E:318:ARG:HG2	1:0E:354:CYS:SG	2.61	0.41
1:0G:167:PHE:CE1	1:0G:233:MET:HE1	2.55	0.41
1:0G:174:LYS:HG3	1:0G:380:ARG:NH2	2.36	0.41
1:0I:177:ASP:N	1:0I:181:GLU:OE2	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0K:151:LEU:HD12	1:0K:152:ILE:N	2.36	0.41
1:0K:198:GLU:HA	1:0K:264:HIS:HB2	2.02	0.41
2:0N:111:GLY:HA2	2:0N:114:ILE:HG22	2.03	0.41
2:0N:223:THR:OG1	2:0N:224:TYR:N	2.53	0.41
1:0O:3:GLU:O	1:0O:131:GLN:N	2.47	0.41
2:0P:90:GLU:HB2	2:1F:283:HIS:CE1	2.55	0.41
1:0Q:40:SER:OG	1:0Q:43:GLN:HG3	2.20	0.41
1:0Q:397:TRP:HE1	2:0R:260:VAL:HB	1.86	0.41
2:0R:306:ASP:HB3	2:0R:309:HIS:HD2	1.85	0.41
1:0S:19:LYS:O	1:0S:23:VAL:HG22	2.21	0.41
1:0U:12:CYS:HB2	39:0U:501:GDP:C8	2.56	0.41
1:0U:137:HIS:O	1:0U:168:SER:HA	2.21	0.41
1:0U:382:SER:HB3	1:0U:415:MET:HG2	2.02	0.41
2:0V:336:LYS:HZ3	2:0V:349:THR:HA	1.86	0.41
2:0V:413:MET:HB3	2:0V:417:GLU:OE2	2.21	0.41
1:0W:40:SER:OG	1:0W:43:GLN:HG3	2.21	0.41
1:0W:207:LEU:HD23	1:0W:207:LEU:HA	1.92	0.41
2:0Z:125:LEU:HD23	2:0Z:125:LEU:HA	1.85	0.41
2:0Z:168:GLY:O	2:0Z:201:ALA:HA	2.20	0.41
1:1A:392:LYS:HB3	1:1A:395:LEU:HD22	2.02	0.41
2:1B:19:ALA:HB2	2:1B:228:ASN:HB3	2.01	0.41
1:1C:166:THR:OG1	1:1C:198:GLU:O	2.37	0.41
2:1F:399:TYR:OH	2:1F:415:GLU:OE1	2.24	0.41
1:1G:7:ILE:HB	1:1G:135:VAL:HG22	2.03	0.41
2:1H:325:PRO:HA	2:1H:328:VAL:HG22	2.02	0.41
1:1Q:391:ARG:O	1:1Q:391:ARG:HG3	2.21	0.41
1:1S:210:ILE:O	1:1S:214:THR:OG1	2.28	0.41
2:1T:83:TYR:HB3	2:1T:86:LEU:HB3	2.03	0.41
2:1T:88:HIS:CG	2:2J:283:HIS:HA	2.54	0.41
1:1U:113:ILE:HD13	1:1U:150:LEU:CD2	2.47	0.41
2:1X:4:VAL:HG23	2:1X:134:GLY:O	2.19	0.41
2:1X:235:ILE:HD13	2:1X:238:LEU:HD21	2.03	0.41
2:2B:9:ILE:HG22	2:2B:146:GLY:HA2	2.03	0.41
1:2C:70:PRO:N	1:2C:92:PHE:HZ	2.18	0.41
2:2D:282:TYR:OH	10:5A:380:ARG:HB2	2.15	0.41
2:2F:26:LEU:HD23	2:2F:363:VAL:HG22	2.02	0.41
2:2F:56:THR:HA	2:2V:285:GLN:HB2	2.03	0.41
1:2G:309:ARG:H	1:2G:372:THR:HG22	1.86	0.41
1:2I:313:ALA:HB1	1:2I:367:PHE:HE1	1.86	0.41
2:2J:171:VAL:HA	2:2J:204:LEU:O	2.20	0.41
1:2M:31:ASP:HB2	1:2M:32:PRO:HD2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2N:246:GLY:HA3	2:2N:356:ASN:HA	2.02	0.41
2:2P:268:MET:N	2:2P:268:MET:SD	2.94	0.41
1:2Q:86:ARG:HB3	1:2Q:89:ASN:OD1	2.20	0.41
1:2Q:113:ILE:HA	1:2Q:116:VAL:CG2	2.50	0.41
1:2Q:228:LEU:HD23	1:2Q:228:LEU:HA	1.90	0.41
2:2R:402:ARG:HD3	2:2R:402:ARG:HA	1.92	0.41
2:2T:139:ASN:OD1	2:2T:139:ASN:N	2.53	0.41
2:2T:271:SER:HB2	2:2T:377:MET:HE2	2.01	0.41
2:2T:305:CYS:O	2:2T:305:CYS:SG	2.79	0.41
2:2T:306:ASP:HB3	2:2T:309:HIS:ND1	2.35	0.41
2:2V:305:CYS:HB3	2:2V:387:ILE:HD11	2.02	0.41
1:2W:395:LEU:O	1:2W:399:THR:HG23	2.20	0.41
1:2Y:36:TYR:CZ	1:2Y:44:LEU:HD21	2.56	0.41
2:2Z:237:SER:HA	2:2Z:320:ARG:HH11	1.84	0.41
1:3A:208:TYR:CE1	1:3A:225:LEU:HD11	2.55	0.41
2:3B:30:ILE:HG13	2:3B:53:PHE:CZ	2.56	0.41
1:3C:208:TYR:HB3	2:3D:326:LYS:NZ	2.36	0.41
2:3D:139:ASN:O	2:3D:170:THR:HA	2.21	0.41
2:3D:172:TYR:CD2	2:3D:203:MET:HG2	2.55	0.41
2:3F:172:TYR:CZ	2:3F:203:MET:SD	3.14	0.41
2:3F:251:ASP:OD1	2:3F:253:THR:N	2.53	0.41
1:3G:39:ASP:OD1	1:3G:40:SER:N	2.51	0.41
2:3H:72:PRO:HD2	1:3I:2:ARG:NH1	2.36	0.41
2:3H:175:PRO:HB3	2:3H:390:ARG:NE	2.36	0.41
2:3H:236:SER:OG	2:3H:243:ARG:NH2	2.54	0.41
1:3I:21:TRP:CZ3	1:3I:61:PRO:HB3	2.55	0.41
1:3I:320:ARG:HG3	23:6Q:65:LEU:CD2	2.51	0.41
2:3J:264:ARG:NH2	2:3J:431:ASP:OD2	2.54	0.41
1:3M:94:GLN:HG3	1:3M:95:THR:HG23	2.02	0.41
1:3M:122:LYS:HG3	3:4D:260:ILE:HD11	2.02	0.41
2:3N:167:LEU:HD13	2:3N:200:VAL:HB	2.02	0.41
4:3W:95:ASP:OD1	4:3W:99:VAL:HG22	2.20	0.41
3:3Z:218:LEU:HA	3:3Z:218:LEU:HD23	1.84	0.41
3:4B:88:GLU:O	3:4B:92:THR:HG23	2.21	0.41
3:4D:8:SER:O	3:4D:12:SER:HB3	2.21	0.41
4:4G:23:GLU:HG3	4:4G:24:ILE:HG23	2.02	0.41
4:4G:95:ASP:OD1	4:4G:99:VAL:HG22	2.20	0.41
3:4H:8:SER:O	3:4H:12:SER:HB3	2.21	0.41
4:4I:95:ASP:OD1	4:4I:99:VAL:HG22	2.20	0.41
5:4L:428:THR:HG21	16:5Q:63:ARG:HB3	2.02	0.41
5:4L:431:VAL:HG21	16:5Q:64:ALA:HB1	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:4O:131:GLU:O	6:4O:135:LEU:HD23	2.20	0.41
9:4Z:68:LEU:HB3	10:5A:356:ARG:NH2	2.35	0.41
10:5B:113:LYS:HB2	10:5B:113:LYS:HE2	1.85	0.41
10:5C:389:LYS:O	10:5C:393:GLU:HG2	2.20	0.41
10:5C:405:VAL:O	10:5C:408:VAL:HG22	2.21	0.41
14:5L:58:LYS:HB3	14:5L:58:LYS:HE3	1.90	0.41
14:5M:125:ASP:OD1	14:5M:125:ASP:N	2.48	0.41
14:5N:125:ASP:OD1	14:5N:125:ASP:N	2.48	0.41
14:5N:354:GLU:HB2	14:5N:368:HIS:CD2	2.55	0.41
15:5O:109:ILE:O	15:5O:113:ILE:HG12	2.21	0.41
15:5O:244:PRO:HD2	15:5O:300:GLN:HE22	1.86	0.41
15:5O:334:LEU:HG	30:7K:241:LYS:HZ2	1.86	0.41
17:5V:208:LYS:HA	17:5V:211:ARG:HG2	2.02	0.41
18:5X:17:HIS:CE1	18:5X:21:GLN:HG3	2.55	0.41
18:6A:89:GLU:OE2	18:6A:89:GLU:HA	2.19	0.41
22:6M:204:PHE:HB3	22:6M:227:TYR:CE2	2.55	0.41
22:6M:264:GLN:HE22	24:6X:407:VAL:HG13	1.86	0.41
22:6N:208:ARG:O	22:6N:212:GLU:HG3	2.21	0.41
24:6T:130:MET:HB2	24:6T:130:MET:HE2	1.78	0.41
24:6T:518:TYR:O	24:6T:532:LEU:HD12	2.20	0.41
24:6U:482:ILE:HD12	24:6U:482:ILE:N	2.35	0.41
24:6V:411:ASN:ND2	24:6V:413:TYR:HD2	2.19	0.41
24:6V:480:ASN:OD1	24:6V:480:ASN:N	2.53	0.41
24:6V:613:LYS:O	24:6V:617:ASP:CB	2.68	0.41
24:6X:113:ASN:OD1	24:6X:114:HIS:ND1	2.46	0.41
24:6X:274:ARG:HB3	24:6X:372:ASP:OD2	2.21	0.41
24:6X:556:ASP:O	24:6X:560:ARG:HG3	2.21	0.41
24:6Z:185:ASP:O	24:6Z:189:ARG:HG3	2.20	0.41
24:6Z:386:THR:N	24:6Z:389:GLU:OE1	2.46	0.41
12:7B:80:PRO:HD2	12:7B:82:LYS:HE3	2.01	0.41
28:7H:410:HIS:ND1	28:7H:411:PRO:HD2	2.34	0.41
29:7J:87:LYS:HA	29:7J:92:TYR:HE2	1.84	0.41
30:7K:17:MET:O	30:7K:18:THR:OG1	2.38	0.41
32:7O:35:GLU:OE1	32:7O:35:GLU:HA	2.21	0.41
34:7S:258:MET:O	34:7S:261:MET:HG3	2.20	0.41
36:7V:41:GLU:O	36:7V:45:ARG:HG2	2.20	0.41
38:7Z:1:MET:HB3	38:7Z:2:ASN:H	1.70	0.41
38:7Z:38:GLU:HG2	38:7Z:38:GLU:O	2.21	0.41
38:8A:85:ARG:HE	38:8A:85:ARG:HB3	1.63	0.41
38:8A:196:MET:HE3	38:8A:201:LEU:CD2	2.51	0.41
38:8D:201:LEU:HD23	38:8D:201:LEU:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:9:228:LEU:HD21	26:7E:136:PHE:CE1	2.56	0.41
1:A1:55:THR:CG2	24:6Y:107:VAL:HG21	2.51	0.41
2:A2:15:GLN:OE1	26:7F:113:ARG:NH2	2.50	0.41
2:B9:221:ARG:HH22	18:6C:30:MET:HG3	1.84	0.41
2:D3:100:ALA:N	41:D3:501:GTP:O3G	2.53	0.41
1:E6:53:GLU:HB2	22:6L:255:PHE:CE1	2.55	0.41
2:G1:379:SER:OG	2:G1:380:ASN:N	2.54	0.41
1:G2:91:VAL:HG11	1:G2:116:VAL:HG22	2.02	0.41
1:G2:232:VAL:CG1	1:G2:268:VAL:HG11	2.50	0.41
2:G7:8:HIS:CD2	2:G7:138:PHE:HD2	2.38	0.41
2:G7:15:GLN:HB3	2:G7:228:ASN:ND2	2.36	0.41
2:H1:53:PHE:HA	2:H1:62:VAL:O	2.20	0.41
2:H3:127:ASP:OD1	2:I9:293:ASN:ND2	2.54	0.41
1:H4:72:THR:O	1:H4:75:SER:OG	2.27	0.41
2:H5:119:LEU:O	2:H5:122:ILE:HG22	2.21	0.41
2:H5:172:TYR:CZ	2:H5:203:MET:SD	3.13	0.41
1:H6:77:ARG:O	1:H6:83:GLN:NE2	2.54	0.41
2:H9:175:PRO:HB3	2:H9:390:ARG:NE	2.36	0.41
2:H9:175:PRO:HG2	2:H9:176:GLN:OE1	2.21	0.41
2:I1:91:GLN:HA	2:I1:121:ARG:HH12	1.86	0.41
2:I1:156:ARG:HA	2:I1:159:VAL:HG22	2.02	0.41
1:I2:177:ASP:OD1	2:I3:248:LEU:HD11	2.20	0.41
1:I2:215:LEU:HB3	1:I2:217:LEU:HG	2.03	0.41
1:I4:9:GLY:HA2	1:I4:66:MET:HE3	2.02	0.41
1:I4:183:TYR:HE2	1:I4:394:PHE:HB2	1.85	0.41
1:I4:186:THR:HG21	1:I4:412:GLU:OE2	2.21	0.41
1:I4:401:GLU:OE1	1:I4:403:MET:HB2	2.21	0.41
2:I5:238:LEU:HD11	2:I5:255:PHE:CZ	2.56	0.41
2:I7:179:THR:O	1:I8:350:LYS:HD2	2.20	0.41
2:I7:227:LEU:O	2:I7:230:LEU:HG	2.21	0.41
2:I9:245:ASP:OD1	2:I9:245:ASP:N	2.53	0.41
1:J2:190:HIS:NE2	1:J2:414:ASN:OD1	2.53	0.41
2:J3:77:GLU:OE1	16:5Q:154:ALA:HB3	2.21	0.41
2:J3:119:LEU:O	2:J3:122:ILE:HG22	2.21	0.41
2:J3:142:GLY:O	2:J3:186:ASN:ND2	2.46	0.41
1:J8:54:ALA:O	1:J8:55:THR:OG1	2.35	0.41
2:J9:27:GLU:OE1	2:J9:243:ARG:NH1	2.53	0.41
2:J9:183:GLU:O	2:J9:187:SER:OG	2.33	0.41
2:K1:90:GLU:HB3	2:L7:283:HIS:CE1	2.56	0.41
2:K1:114:ILE:HD12	2:K1:114:ILE:HA	1.93	0.41
2:K5:246:GLY:HA2	2:K5:357:TYR:CD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K5:335:ILE:HD13	2:K5:335:ILE:HA	1.87	0.41
1:K6:283:ALA:HB1	29:7I:9:ALA:HB2	2.03	0.41
2:K7:278:ALA:HB2	6:4O:263:GLN:HE22	1.86	0.41
1:K8:68:LEU:HB3	1:K8:96:GLY:HA2	2.02	0.41
2:K9:9:ILE:HD13	2:K9:150:GLY:HA2	2.01	0.41
1:L0:95:THR:HG23	1:L0:96:GLY:N	2.36	0.41
1:L0:192:LEU:HD23	1:L0:192:LEU:HA	1.87	0.41
2:L3:213:CYS:HA	2:L3:217:LEU:HB2	2.02	0.41
2:L5:56:THR:HG23	2:N1:285:GLN:HA	2.02	0.41
2:L5:157:LEU:HA	2:L5:157:LEU:HD23	1.76	0.41
1:M0:208:TYR:CE1	1:M0:225:LEU:HD11	2.55	0.41
2:M3:139:ASN:O	2:M3:170:THR:HA	2.20	0.41
2:M3:250:VAL:HB	2:M3:254:GLU:HG3	2.02	0.41
1:M4:151:LEU:O	1:M4:155:ILE:HG12	2.21	0.41
2:M5:176:GLN:HG2	2:M5:177:VAL:N	2.35	0.41
1:M6:75:SER:C	15:5P:48:LYS:HE3	2.34	0.41
2:M7:157:LEU:HD23	2:M7:157:LEU:HA	1.82	0.41
2:M7:196:GLU:OE2	2:M7:197:HIS:NE2	2.53	0.41
1:N0:417:ASP:OD1	1:N0:418:LEU:N	2.54	0.41
2:N3:80:THR:HG22	2:N3:80:THR:O	2.20	0.41
2:N5:183:GLU:CD	2:N5:184:PRO:HD3	2.41	0.41
2:N5:191:THR:O	2:N5:194:LEU:N	2.54	0.41
1:N6:405:GLU:HA	1:N6:408:PHE:HD2	1.85	0.41
1:N8:274:THR:HG23	1:N8:282:ARG:NH1	2.36	0.41
1:O2:155:ILE:HD12	1:O2:155:ILE:HA	1.93	0.41
2:O5:318:MET:O	2:O5:375:VAL:HA	2.21	0.41
2:O7:90:GLU:OE2	2:O7:90:GLU:CA	2.69	0.41
2:O7:322:ASP:N	2:O7:322:ASP:OD1	2.54	0.41
1:P6:46:ARG:HD3	1:P6:46:ARG:HA	1.85	0.41
1:P6:311:LEU:HA	1:P6:311:LEU:HD23	1.72	0.41
2:P7:71:GLU:HB3	2:P7:98:ASP:OD1	2.20	0.41
2:P9:4:VAL:HG23	2:P9:134:GLY:O	2.20	0.41
2:Q5:331:SER:O	2:Q5:334:THR:HG22	2.20	0.41
1:Q6:153:SER:HB2	1:Q6:191:GLN:HE21	1.86	0.41
1:R2:39:ASP:OD1	1:R2:39:ASP:N	2.51	0.41
1:R4:113:ILE:HD12	1:R4:113:ILE:HA	1.86	0.41
1:R4:320:ARG:HE	7:4R:102:ILE:HD11	1.86	0.41
1:R4:424:GLN:NE2	17:5T:104:PHE:HB2	2.35	0.41
2:R5:179:THR:HG21	41:R6:501:GTP:H3'	2.03	0.41
2:R7:327:ASP:N	2:R7:327:ASP:OD1	2.52	0.41
1:R8:279:GLN:HE22	7:4R:236:THR:HG21	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S1:88:HIS:CD2	2:T7:283:HIS:HB3	2.56	0.41
2:S1:90:GLU:HG2	2:S1:121:ARG:HH12	1.86	0.41
1:S2:286:VAL:HG22	1:S2:363:MET:HE1	2.03	0.41
1:S4:205:GLU:OE1	1:S4:205:GLU:HA	2.20	0.41
1:S6:117:LEU:HD11	1:S6:154:LYS:HB3	2.03	0.41
2:S9:51:THR:HG21	2:S9:243:ARG:HG2	2.03	0.41
1:T0:15:GLN:OE1	7:4T:367:ARG:NH2	2.40	0.41
2:T5:254:GLU:HB3	2:T5:352:LYS:HE2	2.03	0.41
2:T7:324:VAL:HG23	2:T7:326:LYS:HG3	2.02	0.41
1:T8:186:THR:HG22	1:T8:411:ALA:HB1	2.03	0.41
1:U6:178:THR:HG23	1:U6:181:GLU:HG3	2.03	0.41
2:U9:81:GLY:O	2:U9:84:ARG:HG3	2.21	0.41
2:V1:417:GLU:HA	2:V1:420:GLU:CG	2.50	0.41
1:V8:43:GLN:HG2	1:V8:242:PHE:CZ	2.55	0.41
2:V9:280:LYS:HA	2:V9:283:HIS:HB3	2.03	0.41
1:W0:1:MET:O	1:W0:129:CYS:HB3	2.21	0.41
1:W0:21:TRP:CZ3	1:W0:61:PRO:HB3	2.56	0.41
2:W1:344:VAL:HG11	2:W1:346:TRP:CE2	2.56	0.41
2:W1:406:HIS:HA	2:W1:409:VAL:CG2	2.48	0.41
2:W5:103:PHE:CE1	2:W5:148:GLY:HA2	2.55	0.41
2:W7:35:GLN:HB3	2:W7:59:GLY:O	2.21	0.41
2:W7:156:ARG:HA	2:W7:159:VAL:HG22	2.03	0.41
2:W7:189:LEU:HD11	2:W7:418:PHE:HE1	1.84	0.41
1:X0:293:MET:HE3	1:X0:367:PHE:HB2	2.02	0.41
1:X2:175:VAL:HG13	2:X3:329:ASN:HD21	1.86	0.41
2:X3:328:VAL:O	2:X3:332:VAL:HG13	2.21	0.41
1:X4:265:PHE:HE2	1:X4:418:LEU:HD11	1.86	0.41
2:X5:203:MET:HE1	2:X5:387:ILE:HD13	2.03	0.41
2:X5:217:LEU:HA	2:X5:217:LEU:HD12	1.79	0.41
1:X6:58:ARG:NH1	1:X6:83:GLN:O	2.54	0.41
2:X7:56:THR:HA	2:Z3:285:GLN:HB3	2.01	0.41
1:X8:167:PHE:CE2	1:X8:233:MET:HG2	2.56	0.41
1:X8:409:THR:HA	1:X8:412:GLU:CD	2.41	0.41
1:Y2:22:GLU:OE2	1:Y2:80:PRO:HG2	2.20	0.41
1:Y2:273:LEU:HD23	1:Y2:273:LEU:HA	1.94	0.41
1:Y4:142:GLY:N	39:Y4:502:GDP:O2B	2.53	0.41
1:Y4:397:TRP:HE1	2:Y5:260:VAL:HB	1.85	0.41
2:Y5:189:LEU:HD23	2:Y5:189:LEU:HA	1.93	0.41
1:Y6:4:ILE:HD11	1:Y6:134:GLN:HB2	2.03	0.41
1:Z4:45:GLU:H	1:Z4:45:GLU:HG2	1.71	0.41
2:Z7:72:PRO:HD2	1:Z8:2:ARG:NH1	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z8:30:ILE:HG13	1:Z8:35:THR:C	2.41	0.41
2:Z9:221:ARG:HB3	1:0A:322:SER:HB2	2.01	0.41
1:0C:64:ILE:HG13	1:0C:89:ASN:OD1	2.20	0.41
1:0C:182:PRO:O	1:0C:186:THR:HG23	2.21	0.41
1:0E:414:ASN:HA	1:0E:417:ASP:OD2	2.20	0.41
2:0F:166:LYS:HE2	2:0F:166:LYS:HB2	1.87	0.41
2:0F:335:ILE:HD12	2:0F:335:ILE:HA	1.94	0.41
1:0G:68:LEU:HD21	1:0G:112:LEU:HD22	2.03	0.41
1:0K:272:PRO:O	1:0K:273:LEU:HD23	2.20	0.41
1:0K:415:MET:O	1:0K:419:VAL:HG22	2.21	0.41
1:0M:68:LEU:HD23	1:0M:68:LEU:HA	1.84	0.41
2:0N:286:LEU:HD12	2:0N:286:LEU:HA	1.85	0.41
1:0Q:311:LEU:O	1:0Q:348:ASN:ND2	2.53	0.41
1:0S:69:GLU:OE2	1:0S:69:GLU:N	2.53	0.41
1:0S:375:GLN:HA	1:0S:378:PHE:CD2	2.56	0.41
1:0U:176:SER:O	1:0U:176:SER:OG	2.36	0.41
1:0U:249:ASP:O	1:0U:253:LEU:HG	2.21	0.41
2:0V:88:HIS:HA	2:0V:89:PRO:HD3	1.88	0.41
1:0W:415:MET:O	1:0W:419:VAL:HG22	2.21	0.41
2:0X:137:VAL:HG22	2:0X:168:GLY:HA2	2.03	0.41
2:0X:218:ASP:OD1	2:0X:280:LYS:NZ	2.54	0.41
2:0X:274:PRO:HB2	2:0X:276:ILE:CG1	2.51	0.41
1:0Y:112:LEU:O	1:0Y:116:VAL:HG23	2.20	0.41
1:0Y:383:GLU:OE2	1:0Y:384:GLN:HG3	2.21	0.41
2:0Z:69:ASP:OD2	2:0Z:71:GLU:N	2.53	0.41
1:1A:297:LYS:HA	1:1A:297:LYS:HD3	1.80	0.41
2:1D:104:ALA:HB1	2:1D:411:GLU:CD	2.41	0.41
2:1D:137:VAL:HG22	2:1D:168:GLY:HA2	2.03	0.41
2:1D:156:ARG:HA	2:1D:159:VAL:HG12	2.03	0.41
2:1D:217:LEU:HD13	2:1D:367:ASP:OD2	2.21	0.41
1:1E:117:LEU:HB3	1:1E:121:ARG:HH22	1.86	0.41
1:1E:371:SER:OG	1:1E:372:THR:N	2.53	0.41
2:1F:101:ASN:ND2	2:1F:143:GLY:HA2	2.36	0.41
2:1F:315:CYS:SG	2:1F:316:CYS:N	2.94	0.41
2:1F:326:LYS:HE3	2:1F:326:LYS:HB3	1.94	0.41
2:1H:305:CYS:SG	2:1H:306:ASP:N	2.93	0.41
1:1K:105:HIS:HB3	1:1K:106:TYR:CD2	2.56	0.41
1:1K:116:VAL:O	1:1K:120:VAL:HG12	2.21	0.41
1:1K:396:HIS:CE1	1:1K:397:TRP:CE2	3.09	0.41
2:1L:246:GLY:HA2	2:1L:357:TYR:CD2	2.56	0.41
2:1N:9:ILE:HG23	2:1N:68:LEU:HD11	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1O:116:VAL:O	1:1O:120:VAL:HG12	2.20	0.41
2:1P:4:VAL:HG23	2:1P:134:GLY:O	2.21	0.41
1:1Q:289:LEU:HD11	1:1Q:363:MET:HG2	2.03	0.41
2:1T:53:PHE:HB3	2:1T:61:HIS:HB3	2.03	0.41
2:1V:35:GLN:HB3	2:1V:59:GLY:O	2.20	0.41
2:1X:370:LYS:HG3	9:4Z:391:ILE:HD11	2.03	0.41
2:1Z:175:PRO:HG2	2:1Z:176:GLN:OE1	2.21	0.41
2:1Z:262:TYR:HD1	2:1Z:264:ARG:H	1.69	0.41
1:2A:48:ASN:N	1:2A:48:ASN:OD1	2.54	0.41
1:2A:263:LEU:HD13	1:2A:422:TYR:CE1	2.55	0.41
1:2C:152:ILE:HD13	1:2C:152:ILE:HA	1.88	0.41
1:2C:178:THR:HG23	1:2C:181:GLU:HG3	2.03	0.41
2:2D:33:ASP:O	2:2D:60:LYS:NZ	2.44	0.41
1:2E:417:ASP:OD1	1:2E:418:LEU:N	2.53	0.41
2:2F:133:GLN:HB3	2:2F:252:ILE:CG2	2.51	0.41
1:2I:239:CYS:SG	1:2I:248:ALA:N	2.86	0.41
2:2J:242:LEU:HD23	2:2J:242:LEU:HA	1.87	0.41
2:2J:259:LEU:HD11	2:2J:316:CYS:HB2	2.03	0.41
2:2L:132:LEU:HD12	2:2L:132:LEU:HA	1.89	0.41
2:2L:163:LYS:HA	2:2L:163:LYS:HD3	1.85	0.41
1:2M:382:SER:HB3	1:2M:415:MET:HG2	2.01	0.41
2:2P:5:ILE:HD11	2:2P:135:PHE:CE1	2.56	0.41
2:2R:184:PRO:O	2:2R:188:VAL:HG22	2.21	0.41
2:2R:285:GLN:NE2	2:2R:286:LEU:O	2.53	0.41
2:2R:335:ILE:HG23	2:2R:341:ILE:HD11	2.03	0.41
2:2T:188:VAL:HG21	2:2T:395:PHE:CE1	2.56	0.41
1:2W:150:LEU:HD12	1:2W:150:LEU:HA	1.85	0.41
1:2W:290:THR:HA	1:2W:293:MET:HB2	2.02	0.41
1:2Y:355:ASP:O	1:2Y:356:ILE:HD13	2.21	0.41
2:2Z:90:GLU:O	2:2Z:91:GLN:C	2.59	0.41
2:2Z:420:GLU:O	2:2Z:423:GLU:HG3	2.21	0.41
1:3A:141:GLY:HA3	39:3A:502:GDP:O3A	2.21	0.41
1:3A:178:THR:HA	2:3B:352:LYS:HD2	2.02	0.41
1:3A:284:LEU:HD13	1:3A:284:LEU:HA	1.96	0.41
2:3D:55:GLU:OE1	2:3D:59:GLY:N	2.54	0.41
1:3I:292:GLN:HG2	1:3I:298:ASN:ND2	2.35	0.41
2:3J:276:ILE:HG23	2:3J:280:LYS:HB2	2.02	0.41
2:3J:280:LYS:HA	2:3J:283:HIS:HB3	2.03	0.41
1:3K:328:GLU:OE2	1:3K:332:ASN:ND2	2.53	0.41
2:3N:236:SER:OG	2:3N:243:ARG:NH2	2.54	0.41
2:3P:290:GLU:HG2	2:3P:291:ILE:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3R:235:ILE:O	2:3R:239:THR:HG23	2.20	0.41
1:3S:53:GLU:OE2	1:3S:58:ARG:N	2.51	0.41
2:3T:172:TYR:CZ	2:3T:203:MET:SD	3.14	0.41
3:3X:88:GLU:O	3:3X:92:THR:HG23	2.21	0.41
3:3Z:88:GLU:O	3:3Z:92:THR:HG23	2.21	0.41
4:4A:23:GLU:HG3	4:4A:24:ILE:HG23	2.01	0.41
3:4B:8:SER:O	3:4B:12:SER:HB3	2.21	0.41
3:4F:88:GLU:O	3:4F:92:THR:HG23	2.21	0.41
5:4L:303:GLU:OE1	5:4L:307:ARG:HG3	2.20	0.41
7:4R:148:GLN:NE2	19:6E:216:PRO:O	2.50	0.41
7:4S:34:LEU:HD23	7:4S:34:LEU:HA	1.91	0.41
7:4U:64:ASP:OD1	12:5F:161:ARG:NH2	2.41	0.41
8:4W:407:GLU:OE2	8:4W:411:ARG:HG3	2.21	0.41
8:4W:424:LYS:HA	8:4W:427:VAL:HG12	2.03	0.41
9:4Y:335:LEU:HD12	9:4Y:336:ARG:HD2	2.03	0.41
10:5A:296:ILE:O	10:5A:300:ILE:HG23	2.21	0.41
10:5C:338:LYS:NZ	14:5M:544:ALA:HB3	2.36	0.41
10:5D:205:GLN:O	10:5D:208:GLU:HG3	2.20	0.41
14:5L:165:THR:HG22	14:5L:171:MET:HG3	2.03	0.41
14:5M:165:THR:HG22	14:5M:171:MET:HG3	2.03	0.41
14:5M:576:LEU:HB3	14:5M:591:GLY:HA2	2.02	0.41
14:5N:58:LYS:HB3	14:5N:58:LYS:HE3	1.90	0.41
15:5O:61:PHE:CD1	15:5O:64:SER:HB3	2.55	0.41
15:5O:192:LEU:HA	15:5O:192:LEU:HD12	1.81	0.41
15:5P:295:ASN:O	15:5P:298:VAL:HG12	2.21	0.41
18:5X:65:VAL:O	18:5X:69:THR:HG22	2.21	0.41
18:5Z:73:GLN:HG2	18:5Z:79:VAL:HG12	2.03	0.41
18:6A:5:VAL:HG11	18:6A:62:GLU:CG	2.48	0.41
18:6A:73:GLN:HG2	18:6A:79:VAL:HG12	2.03	0.41
18:6C:73:GLN:HG2	18:6C:79:VAL:HG12	2.03	0.41
20:6F:86:ASP:N	20:6F:86:ASP:OD1	2.52	0.41
20:6F:367:ALA:O	20:6F:371:THR:HG23	2.20	0.41
21:6H:11:LEU:HB3	21:6H:12:ASN:H	1.50	0.41
22:6N:16:LYS:HD3	22:6N:20:TYR:CD2	2.55	0.41
22:6N:55:THR:OG1	22:6N:56:GLN:HG3	2.20	0.41
22:6O:294:LEU:HA	22:6O:297:PHE:HD2	1.86	0.41
22:6P:291:GLU:HB3	22:6P:347:CYS:SG	2.61	0.41
24:6T:24:ASP:OD1	24:6T:24:ASP:N	2.49	0.41
24:6T:470:ILE:HD11	24:6T:485:PRO:HG2	2.01	0.41
24:6X:106:VAL:HG12	24:6X:113:ASN:C	2.41	0.41
24:6Z:167:SER:CB	24:6Z:197:LYS:HZ2	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:7G:23:VAL:HG23	27:7G:24:LYS:N	2.32	0.41
29:7I:145:ALA:HB3	29:7I:171:THR:HB	2.03	0.41
30:7K:180:ALA:O	30:7K:183:THR:OG1	2.34	0.41
31:7N:35:SER:OG	31:7N:36:ASP:N	2.53	0.41
32:7O:30:ILE:HD12	32:7O:30:ILE:HA	1.94	0.41
34:7S:267:VAL:O	34:7S:271:LYS:HG2	2.21	0.41
36:7W:41:GLU:O	36:7W:45:ARG:HG2	2.20	0.41
28:7X:392:LEU:HD21	28:7X:433:SER:HA	2.03	0.41
38:8C:2:ASN:HB3	38:8C:5:LYS:HB2	2.02	0.41
1:3:337:ASN:HD21	3:3X:69:TYR:H	1.68	0.41
1:9:83:GLN:CG	24:6X:177:ARG:HH22	2.34	0.41
1:9:309:ARG:HG2	3:4D:104:PRO:HG3	2.03	0.41
2:A0:44:GLY:CA	24:6X:124:TYR:HH	2.33	0.41
2:A2:365:GLY:HA3	26:7F:38:ASN:OD1	2.20	0.41
2:A4:42:ILE:HG21	24:6Z:93:ARG:NH1	2.36	0.41
2:A8:223:THR:HG23	18:5X:51:MET:CE	2.45	0.41
1:B5:357:PRO:HG2	18:6A:22:ARG:NH2	2.35	0.41
1:B8:70:PRO:HB2	24:6Y:243:LYS:HE2	2.02	0.41
1:D6:74:ASP:OD1	24:6Z:319:PRO:HD2	2.20	0.41
2:G1:51:THR:HG21	2:G1:243:ARG:HG2	2.01	0.41
2:G1:239:THR:HG23	2:G1:243:ARG:HE	1.86	0.41
1:G2:5:VAL:HG12	1:G2:133:PHE:CD1	2.56	0.41
1:G2:240:LEU:HD21	1:G2:249:ASP:HB3	2.02	0.41
1:G2:319:GLY:O	1:G2:321:MET:HG3	2.21	0.41
2:G3:39:ASP:O	24:6W:537:GLU:HB2	2.21	0.41
2:G3:125:LEU:HD23	2:G3:125:LEU:HA	1.86	0.41
2:G5:28:HIS:CE1	2:G5:49:PHE:HA	2.56	0.41
2:G5:288:VAL:O	2:G5:292:THR:OG1	2.23	0.41
1:G6:219:THR:HG22	24:6Y:418:ASP:CG	2.41	0.41
2:G7:274:PRO:HD3	2:G7:374:ALA:HA	2.02	0.41
1:G8:117:LEU:HA	1:G8:117:LEU:HD23	1.86	0.41
1:G8:371:SER:OG	1:G8:372:THR:N	2.54	0.41
2:H1:203:MET:SD	2:H1:267:PHE:HB3	2.60	0.41
2:H1:415:GLU:OE1	2:H1:415:GLU:N	2.54	0.41
1:H2:41:ASP:HA	1:H2:44:LEU:HG	2.03	0.41
1:H2:173:PRO:HG2	1:H2:380:ARG:HH21	1.85	0.41
1:H2:218:THR:CB	24:6T:488:ARG:O	2.66	0.41
1:H2:248:ALA:HA	1:H2:252:LYS:HD2	2.02	0.41
1:H2:415:MET:O	1:H2:419:VAL:HG22	2.21	0.41
2:H3:250:VAL:HG23	2:H3:254:GLU:HG3	2.03	0.41
1:H4:127:CYS:SG	1:H4:128:ASP:N	2.94	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H4:152:ILE:HD13	1:H4:152:ILE:HA	1.92	0.41
2:H5:223:THR:OG1	2:H5:224:TYR:N	2.53	0.41
2:H5:388:PHE:O	2:H5:391:LEU:HG	2.21	0.41
1:H6:9:GLY:HA2	1:H6:66:MET:HE3	2.03	0.41
1:H8:128:ASP:OD1	1:H8:129:CYS:N	2.51	0.41
1:H8:137:HIS:O	1:H8:168:SER:HA	2.21	0.41
1:H8:213:ARG:O	1:H8:216:LYS:HG3	2.20	0.41
1:H8:272:PRO:HB2	1:H8:282:ARG:HH12	1.86	0.41
1:H8:371:SER:OG	1:H8:372:THR:N	2.53	0.41
2:H9:74:VAL:O	2:H9:78:VAL:HG23	2.21	0.41
2:H9:238:LEU:HD11	2:H9:255:PHE:CE2	2.56	0.41
1:I0:164:MET:N	1:I0:197:ASP:OD2	2.53	0.41
1:I0:385:PHE:HD2	1:I0:412:GLU:OE2	2.04	0.41
2:I1:88:HIS:CE1	2:I1:90:GLU:HB3	2.55	0.41
1:I2:7:ILE:HB	1:I2:135:VAL:HG22	2.03	0.41
1:I2:134:GLN:HE22	1:I2:237:THR:HG21	1.85	0.41
2:I3:216:SER:OG	2:I3:217:LEU:N	2.54	0.41
2:I3:223:THR:HG23	2:I3:225:THR:H	1.85	0.41
1:I4:95:THR:HG23	1:I4:96:GLY:H	1.85	0.41
1:I4:113:ILE:HA	1:I4:116:VAL:CG1	2.48	0.41
1:I4:218:THR:HG21	24:6Z:488:ARG:HA	2.02	0.41
1:I4:235:GLY:HA3	1:I4:366:THR:HG21	2.02	0.41
1:I4:268:VAL:O	1:I4:300:MET:N	2.41	0.41
2:I5:113:GLU:OE2	2:I5:114:ILE:HB	2.21	0.41
2:I5:389:SER:N	2:I5:429:GLU:OE2	2.54	0.41
2:I7:290:GLU:HA	2:I7:293:ASN:HD22	1.86	0.41
2:I7:395:PHE:HE2	2:I7:422:ARG:HD3	1.86	0.41
1:I8:192:LEU:HD23	1:I8:192:LEU:HA	1.86	0.41
2:I9:11:GLN:OE1	2:I9:15:GLN:NE2	2.53	0.41
2:I9:119:LEU:HD11	2:I9:156:ARG:CB	2.51	0.41
2:I9:371:VAL:HG12	2:I9:373:ARG:H	1.86	0.41
1:J0:56:GLY:O	6:4O:224:ARG:HD3	2.21	0.41
2:J1:34:GLY:HA3	2:J1:60:LYS:NZ	2.36	0.41
2:J1:125:LEU:HD23	2:J1:125:LEU:HA	1.82	0.41
2:J1:176:GLN:HG2	2:J1:177:VAL:N	2.36	0.41
1:J4:354:CYS:SG	1:J4:355:ASP:N	2.94	0.41
2:J5:298:PRO:HB3	2:J5:307:PRO:HD2	2.01	0.41
2:J5:401:LYS:HB3	2:J5:401:LYS:HE3	1.86	0.41
1:J6:56:GLY:HA2	6:4O:386:PHE:CD2	2.56	0.41
1:J6:356:ILE:HD13	1:J6:356:ILE:HA	1.92	0.41
1:J6:403:MET:HE3	1:J6:403:MET:HB2	1.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J7:60:LYS:HA	2:J7:60:LYS:HD2	1.68	0.41
2:J7:119:LEU:O	2:J7:122:ILE:HG22	2.21	0.41
2:J7:141:VAL:O	2:J7:147:SER:OG	2.36	0.41
2:J7:244:PHE:HB2	2:J7:356:ASN:HD21	1.85	0.41
2:J7:298:PRO:HA	2:J7:301:MET:HG3	2.03	0.41
2:J7:305:CYS:HB3	2:J7:387:ILE:HD11	2.03	0.41
1:J8:297:LYS:HA	1:J8:297:LYS:HD3	1.75	0.41
2:J9:23:LEU:HD11	2:J9:233:GLN:OE1	2.20	0.41
2:J9:266:HIS:O	2:J9:266:HIS:ND1	2.49	0.41
1:K0:137:HIS:NE2	1:K0:166:THR:OG1	2.54	0.41
2:K1:8:HIS:CD2	2:K1:138:PHE:HD2	2.38	0.41
2:K1:76:ASP:OD1	2:K1:79:ARG:HD2	2.21	0.41
2:K3:9:ILE:CG1	2:K3:139:ASN:HB3	2.50	0.41
2:K3:86:LEU:HD12	2:K3:86:LEU:HA	1.94	0.41
1:K4:233:MET:O	1:K4:237:THR:HG22	2.20	0.41
2:K5:21:TRP:CZ3	2:K5:63:PRO:HB3	2.56	0.41
2:K5:122:ILE:HA	2:K5:125:LEU:HD12	2.02	0.41
2:K5:178:SER:OG	2:K5:183:GLU:OE2	2.34	0.41
1:K6:273:LEU:H	1:K6:292:GLN:HE22	1.68	0.41
2:K7:60:LYS:HD3	2:M3:282:TYR:CZ	2.55	0.41
1:K8:69:GLU:OE2	1:K8:72:THR:HG23	2.20	0.41
1:K8:273:LEU:H	1:K8:292:GLN:NE2	2.18	0.41
1:K8:310:TYR:HA	1:K8:371:SER:HA	2.02	0.41
2:K9:163:LYS:HA	2:K9:163:LYS:HD3	1.73	0.41
1:L0:284:LEU:HD13	1:L0:284:LEU:HA	1.94	0.41
1:L0:350:LYS:NZ	1:L0:351:SER:O	2.48	0.41
2:L1:175:PRO:HB3	2:L1:390:ARG:NE	2.36	0.41
1:L2:107:THR:OG1	1:L2:108:GLU:OE1	2.27	0.41
1:L2:374:ILE:HD12	1:L2:374:ILE:HA	1.96	0.41
2:L3:27:GLU:OE1	2:L3:243:ARG:NH1	2.54	0.41
2:L3:327:ASP:OD1	2:L3:327:ASP:N	2.51	0.41
1:L4:3:GLU:HB2	1:L4:130:LEU:HD13	2.01	0.41
1:L4:215:LEU:HB3	1:L4:217:LEU:HG	2.01	0.41
1:L4:273:LEU:O	1:L4:292:GLN:NE2	2.53	0.41
1:L4:309:ARG:H	1:L4:372:THR:HG22	1.86	0.41
1:L4:406:MET:N	1:L4:406:MET:SD	2.94	0.41
2:L5:76:ASP:HA	2:L5:79:ARG:HB2	2.03	0.41
1:L6:6:HIS:CE1	1:L6:8:GLN:HG2	2.55	0.41
1:L6:49:VAL:HG11	1:L6:241:ARG:HG2	2.03	0.41
1:L6:238:CYS:SG	1:L6:318:ARG:NE	2.93	0.41
1:L6:362:LYS:HE2	6:4P:169:PHE:CE2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L7:5:ILE:HG22	2:L7:64:ARG:HB3	2.03	0.41
2:L7:210:TYR:CE1	2:L7:227:LEU:HD11	2.56	0.41
2:L7:235:ILE:O	2:L7:238:LEU:HG	2.21	0.41
2:L7:276:ILE:HD13	2:L7:276:ILE:HA	1.92	0.41
2:L9:33:ASP:HA	2:L9:85:GLN:HB2	2.03	0.41
2:L9:137:VAL:HG22	2:L9:168:GLY:HA2	2.02	0.41
2:L9:183:GLU:HG3	2:L9:184:PRO:HD3	2.02	0.41
1:M0:139:LEU:HD12	1:M0:170:VAL:HG12	2.02	0.41
1:M0:257:LEU:HD21	1:M0:314:SER:HB3	2.02	0.41
1:M0:382:SER:HB2	1:M0:415:MET:HG2	2.02	0.41
2:M1:153:LEU:HD12	2:M1:153:LEU:HA	1.89	0.41
2:M1:325:PRO:HA	2:M1:328:VAL:HG12	2.03	0.41
2:M3:115:VAL:O	2:M3:119:LEU:HG	2.21	0.41
2:M3:137:VAL:HG22	2:M3:168:GLY:HA2	2.02	0.41
1:M4:113:ILE:HA	1:M4:116:VAL:HG22	2.03	0.41
1:M6:76:VAL:HG23	1:M6:77:ARG:N	2.36	0.41
1:M6:271:THR:HG22	1:M6:365:ALA:HB3	2.02	0.41
2:M7:39:ASP:OD2	2:M7:40:LYS:N	2.49	0.41
2:M9:287:SER:H	2:M9:290:GLU:CD	2.25	0.41
2:N1:8:HIS:CD2	2:N1:138:PHE:HD2	2.39	0.41
2:N1:147:SER:HB2	2:N1:190:SER:OG	2.21	0.41
2:N1:430:LYS:HA	2:N1:430:LYS:HD2	1.85	0.41
1:N2:178:THR:HA	2:N3:352:LYS:HD2	2.03	0.41
1:N2:362:LYS:HE3	30:7L:305:GLN:O	2.20	0.41
2:N3:33:ASP:OD1	2:N3:34:GLY:N	2.53	0.41
2:N3:216:SER:OG	2:N3:217:LEU:N	2.54	0.41
2:N5:90:GLU:HB2	2:N5:121:ARG:NH2	2.35	0.41
2:N5:125:LEU:HD23	2:N5:125:LEU:HA	1.78	0.41
1:N6:155:ILE:HD12	1:N6:155:ILE:HA	1.84	0.41
1:N6:276:ARG:HA	1:N6:279:GLN:HB2	2.02	0.41
2:N7:70:LEU:HD13	2:N7:110:ILE:HG21	2.02	0.41
2:N7:72:PRO:HD2	1:N8:2:ARG:HH12	1.85	0.41
2:N7:286:LEU:HA	2:N7:286:LEU:HD23	1.79	0.41
1:N8:45:GLU:HG3	1:N8:46:ARG:HG2	2.02	0.41
1:N8:405:GLU:HA	1:N8:408:PHE:HD2	1.86	0.41
2:N9:70:LEU:HD11	2:N9:149:LEU:HD21	2.03	0.41
1:O0:274:THR:OG1	27:7G:54:HIS:HE1	2.04	0.41
2:O1:320:ARG:HE	2:O1:320:ARG:HB3	1.59	0.41
2:O1:396:ASP:OD2	2:O1:422:ARG:NH2	2.49	0.41
1:O4:190:HIS:CD2	1:O4:414:ASN:HB3	2.56	0.41
2:O5:19:ALA:HB2	32:7P:120:TYR:OH	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O5:272:TYR:HD2	2:O5:275:ILE:HD11	1.86	0.41
1:O6:132:GLY:HA2	1:O6:162:ARG:HB3	2.02	0.41
2:O7:26:LEU:HD23	2:O7:26:LEU:HA	1.89	0.41
2:O7:79:ARG:O	2:O7:84:ARG:HG2	2.21	0.41
1:O8:86:ARG:HD3	1:O8:88:ASP:HB3	2.02	0.41
2:O9:174:SER:OG	2:O9:207:GLU:HB2	2.21	0.41
2:P3:15:GLN:HB3	2:P3:228:ASN:ND2	2.36	0.41
2:P3:175:PRO:HG2	2:P3:176:GLN:OE1	2.21	0.41
2:P5:200:VAL:HG23	2:P5:256:GLN:HG3	2.03	0.41
2:P5:306:ASP:HB3	2:P5:309:HIS:CD2	2.56	0.41
1:P6:309:ARG:H	1:P6:372:THR:HG22	1.85	0.41
2:P9:306:ASP:HB3	2:P9:309:HIS:CD2	2.56	0.41
1:Q0:213:ARG:NH2	1:Q0:297:LYS:HG3	2.36	0.41
2:Q1:402:ARG:O	2:Q1:405:VAL:HG12	2.21	0.41
1:Q2:69:GLU:OE2	1:Q2:69:GLU:N	2.54	0.41
2:Q3:100:ALA:HA	1:Q4:252:LYS:HE2	2.03	0.41
2:Q3:119:LEU:HA	2:Q3:122:ILE:HG22	2.03	0.41
1:Q4:11:GLN:N	39:Q4:502:GDP:O2B	2.36	0.41
2:Q5:8:HIS:CD2	2:Q5:138:PHE:HD2	2.39	0.41
2:Q5:10:GLY:O	2:Q5:13:GLY:N	2.54	0.41
2:Q5:86:LEU:O	2:Q5:86:LEU:HG	2.19	0.41
2:Q5:222:PRO:HD2	1:Q6:324:LYS:HE3	2.03	0.41
1:Q6:53:GLU:OE2	7:4R:351:ARG:NH1	2.54	0.41
1:Q6:286:VAL:HB	1:Q6:287:PRO:HD3	2.03	0.41
1:Q8:71:GLY:HA2	24:6T:29:LYS:HD3	2.02	0.41
1:Q8:228:LEU:HD23	1:Q8:228:LEU:HA	1.81	0.41
1:Q8:295:ASP:OD1	1:Q8:297:LYS:N	2.54	0.41
2:Q9:274:PRO:HB2	2:Q9:276:ILE:CG1	2.51	0.41
2:Q9:290:GLU:OE1	2:Q9:290:GLU:N	2.37	0.41
1:R0:167:PHE:CE2	1:R0:233:MET:HG2	2.56	0.41
1:R0:207:LEU:HD23	1:R0:207:LEU:HA	1.85	0.41
2:R1:207:GLU:OE2	2:R1:207:GLU:HA	2.21	0.41
1:R2:94:GLN:HB3	24:6V:35:TYR:CE2	2.56	0.41
2:R3:221:ARG:HB3	1:R4:322:SER:OG	2.21	0.41
1:R4:245:GLN:NE2	21:6G:58:GLU:HG3	2.36	0.41
2:R5:59:GLY:HA3	11:5E:245:PRO:HG3	2.02	0.41
2:R5:322:ASP:HB2	19:6E:221:THR:CG2	2.50	0.41
2:R5:344:VAL:HG12	2:R5:347:CYS:H	1.85	0.41
1:R6:282:ARG:NH2	1:R6:292:GLN:OE1	2.53	0.41
1:R6:309:ARG:O	1:R6:372:THR:HG22	2.21	0.41
2:R7:70:LEU:HD23	2:R7:70:LEU:HA	1.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R7:175:PRO:HG2	2:R7:176:GLN:OE1	2.20	0.41
2:R7:195:LEU:HD23	2:R7:195:LEU:HA	1.84	0.41
2:R7:205:ASP:OD1	2:R7:303:VAL:HG13	2.20	0.41
1:R8:111:GLU:HG3	13:5J:119:VAL:CG1	2.35	0.41
2:R9:377:MET:SD	2:R9:379:SER:HB3	2.60	0.41
1:S0:30:ILE:HG13	1:S0:35:THR:O	2.20	0.41
1:S0:135:VAL:HG12	1:S0:137:HIS:HD2	1.86	0.41
1:S0:174:LYS:HE2	1:S0:174:LYS:HB3	1.72	0.41
1:S0:396:HIS:H	1:S0:396:HIS:CD2	2.37	0.41
2:S1:279:GLU:OE1	2:S1:279:GLU:N	2.53	0.41
1:S2:284:LEU:HB3	7:4R:352:ASN:OD1	2.21	0.41
1:S2:395:LEU:HD12	1:S2:395:LEU:HA	1.92	0.41
1:S4:175:VAL:HG12	1:S4:205:GLU:HG2	2.02	0.41
2:S5:196:GLU:OE2	2:S5:197:HIS:NE2	2.53	0.41
2:S7:73:THR:HG23	2:S7:74:VAL:N	2.36	0.41
2:S7:76:ASP:HA	2:S7:79:ARG:HB2	2.03	0.41
2:S7:247:ALA:HB2	2:S7:357:TYR:OH	2.21	0.41
2:S9:81:GLY:HA2	12:5F:212:ARG:HH21	1.86	0.41
2:S9:90:GLU:CB	2:S9:121:ARG:HH12	2.34	0.41
2:S9:175:PRO:HB3	2:S9:390:ARG:NE	2.35	0.41
1:T0:26:ASP:OD2	1:T0:359:LYS:HD2	2.21	0.41
1:T0:183:TYR:OH	1:T0:388:MET:HB3	2.20	0.41
1:T0:253:LEU:HD23	1:T0:253:LEU:HA	1.83	0.41
2:T1:71:GLU:O	2:T1:71:GLU:HG2	2.21	0.41
2:T1:116:ASP:OD2	2:T1:156:ARG:NH1	2.54	0.41
1:T2:237:THR:O	1:T2:237:THR:HG22	2.20	0.41
1:T2:271:THR:CG2	1:T2:365:ALA:HB3	2.51	0.41
1:T4:112:LEU:O	1:T4:116:VAL:HG23	2.21	0.41
1:T4:333:VAL:HG23	13:5J:102:ALA:O	2.20	0.41
2:T5:79:ARG:O	2:T5:84:ARG:HG2	2.20	0.41
2:T5:288:VAL:HG13	2:T5:319:TYR:HE2	1.85	0.41
2:T5:371:VAL:HG22	2:T5:373:ARG:H	1.85	0.41
2:T5:392:ASP:OD2	2:T5:422:ARG:NH1	2.54	0.41
1:T6:77:ARG:HH21	24:7A:46:ALA:HB1	1.84	0.41
1:T6:204:ASN:HD21	39:T6:502:GDP:N2	2.18	0.41
1:T6:290:THR:HG21	1:T6:329:GLN:CG	2.50	0.41
2:T7:7:ILE:HD11	2:T7:137:VAL:HG12	2.02	0.41
2:T7:237:SER:HA	2:T7:320:ARG:HD2	2.01	0.41
1:T8:192:LEU:HD23	1:T8:192:LEU:HA	1.83	0.41
1:T8:309:ARG:NH1	1:T8:339:SER:O	2.53	0.41
1:T8:345:ILE:HB	1:T8:348:ASN:HD21	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U1:125:LEU:HD23	2:U1:125:LEU:HA	1.92	0.41
2:U1:259:LEU:HD21	2:U1:316:CYS:SG	2.60	0.41
2:U1:312:TYR:HD1	2:U1:381:SER:HB3	1.86	0.41
1:U2:148:GLY:O	1:U2:151:LEU:HG	2.20	0.41
1:U2:173:PRO:HA	1:U2:176:SER:HB3	2.02	0.41
1:U2:417:ASP:HA	1:U2:420:SER:OG	2.21	0.41
1:U4:297:LYS:NZ	1:U4:306:ARG:HH22	2.19	0.41
2:U5:70:LEU:HB3	2:U5:97:GLU:O	2.21	0.41
2:U5:290:GLU:HG2	2:U5:291:ILE:N	2.36	0.41
2:U5:305:CYS:HB3	2:U5:387:ILE:HD11	2.02	0.41
2:U5:406:HIS:HA	2:U5:409:VAL:HG22	2.02	0.41
2:U7:222:PRO:CD	1:U8:324:LYS:HE3	2.50	0.41
2:U7:320:ARG:NH2	2:U7:359:PRO:O	2.54	0.41
1:U8:95:THR:HG23	1:U8:96:GLY:N	2.35	0.41
1:U8:190:HIS:CD2	1:U8:414:ASN:HB2	2.55	0.41
1:U8:329:GLN:HA	1:U8:332:ASN:ND2	2.35	0.41
2:U9:116:ASP:OD1	2:U9:117:LEU:N	2.54	0.41
2:U9:397:LEU:HD12	2:U9:397:LEU:HA	1.86	0.41
1:V0:282:ARG:NH2	1:V0:284:LEU:HA	2.35	0.41
2:V1:72:PRO:HD2	1:V2:2:ARG:NH1	2.35	0.41
2:V1:88:HIS:HA	2:W7:283:HIS:CD2	2.56	0.41
2:V1:266:HIS:O	2:V1:266:HIS:ND1	2.54	0.41
2:V3:122:ILE:CD1	2:V3:157:LEU:HD21	2.50	0.41
2:V3:328:VAL:HG11	2:V3:355:ILE:HD11	2.02	0.41
1:V4:22:GLU:HG2	1:V4:81:TYR:HB2	2.02	0.41
1:V4:317:PHE:HB3	1:V4:321:MET:SD	2.61	0.41
2:V7:327:ASP:OD1	2:V7:328:VAL:N	2.54	0.41
1:V8:21:TRP:CZ2	1:V8:63:ALA:HB2	2.56	0.41
1:V8:396:HIS:CE1	1:V8:397:TRP:CE2	3.08	0.41
2:V9:58:ALA:HB1	8:4W:148:GLN:O	2.21	0.41
2:V9:255:PHE:O	2:V9:259:LEU:HB2	2.20	0.41
1:W0:285:THR:HG23	1:W0:288:GLU:H	1.85	0.41
1:W2:183:TYR:HB3	1:W2:398:TYR:HE2	1.86	0.41
1:W2:183:TYR:O	1:W2:187:LEU:HD13	2.20	0.41
2:W3:72:PRO:HG3	1:W4:1:MET:HG3	2.02	0.41
1:W4:131:GLN:NE2	1:W4:249:ASP:OD1	2.54	0.41
2:W5:255:PHE:O	2:W5:259:LEU:HB2	2.21	0.41
2:W7:239:THR:O	2:W7:239:THR:HG22	2.21	0.41
2:W7:391:LEU:HD23	2:W7:391:LEU:HA	1.91	0.41
1:W8:364:SER:OG	1:W8:365:ALA:N	2.54	0.41
2:W9:79:ARG:CG	2:W9:92:LEU:HD23	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W9:178:SER:OG	1:X0:347:ASN:HB3	2.21	0.41
2:W9:327:ASP:OD1	2:W9:328:VAL:N	2.54	0.41
1:X0:40:SER:HB3	8:4X:99:PRO:HD3	2.01	0.41
1:X0:263:LEU:HG	1:X0:422:TYR:HE1	1.83	0.41
1:X2:5:VAL:HB	1:X2:133:PHE:HD1	1.85	0.41
1:X2:62:ARG:HG2	1:X2:123:GLU:OE2	2.21	0.41
2:X3:246:GLY:HA2	2:X3:357:TYR:CD2	2.56	0.41
1:X4:10:GLY:HA2	1:X4:143:THR:HG23	2.01	0.41
1:X4:234:SER:HA	1:X4:237:THR:HG22	2.03	0.41
2:X5:167:LEU:HD21	2:X5:252:ILE:HG13	2.02	0.41
2:X5:181:VAL:H	1:X6:256:ASN:ND2	2.19	0.41
2:X5:255:PHE:CE1	2:X5:378:ILE:HD12	2.55	0.41
2:X5:255:PHE:HD1	2:X5:259:LEU:HD12	1.86	0.41
2:X7:282:TYR:HE2	2:X7:283:HIS:CE1	2.39	0.41
2:X7:328:VAL:O	2:X7:332:VAL:HG13	2.21	0.41
1:X8:60:VAL:HA	1:X8:61:PRO:HD3	1.91	0.41
1:X8:67:ASP:OD1	1:X8:67:ASP:N	2.53	0.41
1:X8:95:THR:OG1	1:X8:96:GLY:N	2.54	0.41
2:X9:11:GLN:HB3	41:Y0:501:GTP:O2A	2.21	0.41
2:X9:239:THR:HG22	2:X9:239:THR:O	2.20	0.41
1:Y0:105:HIS:CD2	1:Y0:150:LEU:HB2	2.56	0.41
1:Y0:150:LEU:O	1:Y0:154:LYS:HG2	2.20	0.41
1:Y0:396:HIS:CE1	1:Y0:397:TRP:CE2	3.08	0.41
2:Y1:387:ILE:HG12	2:Y1:390:ARG:HH12	1.86	0.41
2:Y3:21:TRP:CZ2	2:Y3:65:CYS:HB2	2.56	0.41
2:Y3:211:ASP:OD2	2:Y3:214:ARG:NH2	2.48	0.41
1:Y4:251:ARG:O	1:Y4:255:VAL:HG22	2.21	0.41
1:Y4:321:MET:HE2	1:Y4:363:MET:HG3	2.03	0.41
2:Y5:11:GLN:HB3	41:Y6:501:GTP:O2A	2.20	0.41
2:Y5:251:ASP:OD1	2:Y5:252:ILE:N	2.54	0.41
1:Y6:154:LYS:HD3	1:Y6:154:LYS:HA	1.85	0.41
1:Y6:280:GLN:HG2	8:4X:126:ASP:OD2	2.21	0.41
1:Y8:91:VAL:HG21	1:Y8:116:VAL:HG12	2.03	0.41
2:Y9:5:ILE:HG22	2:Y9:64:ARG:HD3	2.03	0.41
2:Y9:56:THR:N	2:Y9:60:LYS:O	2.54	0.41
2:Y9:317:LEU:HD21	2:Y9:377:MET:HG2	2.03	0.41
1:Z0:336:LYS:HA	1:Z0:336:LYS:HD2	1.78	0.41
2:Z1:21:TRP:CH2	2:Z1:63:PRO:HB3	2.55	0.41
2:Z1:324:VAL:HG22	2:Z1:326:LYS:HG2	2.02	0.41
1:Z2:172:SER:HB3	1:Z2:205:GLU:OE1	2.21	0.41
1:Z2:274:THR:OG1	1:Z2:282:ARG:NH1	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z2:328:GLU:O	1:Z2:332:ASN:ND2	2.54	0.41
2:Z3:65:CYS:SG	2:Z3:66:ILE:N	2.94	0.41
2:Z5:84:ARG:HH11	2:Z5:84:ARG:HG3	1.83	0.41
1:Z6:101:TRP:CZ3	1:Z6:187:LEU:HD23	2.56	0.41
1:Z6:128:ASP:N	1:Z6:128:ASP:OD1	2.48	0.41
1:Z6:165:LEU:HD12	1:Z6:166:THR:N	2.36	0.41
2:Z7:192:HIS:HD2	2:Z7:421:ALA:HA	1.86	0.41
2:Z7:296:PHE:HE1	2:Z7:377:MET:HG3	1.86	0.41
2:Z7:306:ASP:HB3	2:Z7:309:HIS:HD2	1.85	0.41
2:Z7:393:HIS:HD2	2:Z7:394:LYS:NZ	2.19	0.41
1:Z8:164:MET:HB3	1:Z8:197:ASP:CG	2.41	0.41
2:Z9:175:PRO:HG2	2:Z9:176:GLN:OE1	2.20	0.41
2:Z9:259:LEU:HD12	2:Z9:268:MET:HE1	2.02	0.41
1:0A:375:GLN:O	1:0A:379:LYS:HG2	2.21	0.41
2:0B:319:TYR:HD2	2:0B:323:VAL:HG11	1.86	0.41
2:0B:380:ASN:OD1	2:0B:381:SER:N	2.54	0.41
1:0C:41:ASP:HA	1:0C:44:LEU:HD23	2.03	0.41
1:0C:260:PHE:HB2	1:0C:263:LEU:HD23	2.03	0.41
1:0E:118:ASP:O	1:0E:122:LYS:HG2	2.21	0.41
2:0F:33:ASP:O	2:0F:60:LYS:NZ	2.49	0.41
2:0F:124:LYS:HA	2:0F:127:ASP:OD2	2.21	0.41
2:0F:289:ALA:O	2:0F:293:ASN:ND2	2.52	0.41
1:0G:161:ASP:HB2	1:0G:162:ARG:NH1	2.36	0.41
1:0I:58:ARG:HH11	1:0Y:281:TYR:HE1	1.68	0.41
1:0I:325:GLU:HA	1:0I:328:GLU:HG3	2.03	0.41
1:0I:344:TRP:CE3	1:0I:345:ILE:HG13	2.56	0.41
1:0I:389:PHE:O	1:0I:392:LYS:NZ	2.24	0.41
1:0I:397:TRP:HE1	2:0J:260:VAL:HB	1.86	0.41
2:0J:3:GLU:HG3	2:0J:51:THR:HA	2.02	0.41
1:0K:86:ARG:NH1	1:0K:89:ASN:OD1	2.54	0.41
1:0K:193:VAL:HG11	1:0K:418:LEU:CD1	2.50	0.41
1:0K:289:LEU:HD23	1:0K:365:ALA:HB2	2.02	0.41
2:0L:88:HIS:HB3	2:1B:283:HIS:CG	2.56	0.41
2:0L:209:ILE:HD13	2:0L:231:ILE:HD11	2.03	0.41
2:0L:212:ILE:O	2:0L:216:SER:OG	2.35	0.41
1:0M:62:ARG:HG3	1:0M:123:GLU:OE2	2.20	0.41
1:0M:193:VAL:HG21	1:0M:418:LEU:HD11	2.03	0.41
1:0M:271:THR:OG1	1:0M:365:ALA:HB3	2.21	0.41
1:0M:334:GLN:NE2	1:0M:348:ASN:H	2.16	0.41
2:0N:115:VAL:HG23	2:0N:153:LEU:HD13	2.03	0.41
2:0N:195:LEU:CD1	2:0N:428:LEU:HD21	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0O:100:ASN:ND2	1:0O:103:LYS:HG3	2.36	0.41
1:0O:103:LYS:HA	1:0O:107:THR:HB	2.02	0.41
1:0O:379:LYS:HD3	1:0O:419:VAL:HG11	2.02	0.41
2:0P:88:HIS:ND1	2:1F:283:HIS:HA	2.36	0.41
2:0P:312:TYR:HB2	2:0P:343:PHE:CD1	2.56	0.41
1:0Q:95:THR:OG1	1:0Q:96:GLY:N	2.54	0.41
2:0R:7:ILE:HG22	2:0R:66:ILE:HB	2.03	0.41
2:0R:17:GLY:HA2	2:0R:20:CYS:SG	2.61	0.41
2:0R:47:ASP:OD1	2:0R:50:ASN:ND2	2.54	0.41
2:0R:52:PHE:HZ	2:0R:239:THR:HG21	1.86	0.41
2:0R:71:GLU:HB3	2:0R:98:ASP:OD1	2.20	0.41
2:0R:154:LEU:HG	2:0R:197:HIS:HB3	2.02	0.41
1:0S:363:MET:HB3	1:0S:363:MET:HE2	1.91	0.41
1:0U:55:THR:H	1:0U:58:ARG:HB3	1.86	0.41
1:0U:113:ILE:HG22	1:0U:117:LEU:HD22	2.03	0.41
1:0U:252:LYS:HE3	1:0U:252:LYS:HB2	1.92	0.41
1:0U:350:LYS:HZ1	1:0U:352:SER:HB3	1.85	0.41
1:0U:397:TRP:O	1:0U:401:GLU:HG2	2.21	0.41
2:0V:195:LEU:HD23	2:0V:196:GLU:HB3	2.03	0.41
2:0V:334:THR:HA	2:0V:337:THR:HG22	2.02	0.41
1:0W:286:VAL:CG2	1:0W:287:PRO:HD3	2.51	0.41
2:0X:237:SER:HA	2:0X:320:ARG:HD2	2.03	0.41
1:0Y:100:ASN:HB3	1:0Y:103:LYS:HB2	2.02	0.41
1:0Y:274:THR:OG1	1:0Y:282:ARG:NH1	2.54	0.41
1:0Y:289:LEU:O	1:0Y:293:MET:HG3	2.19	0.41
2:0Z:176:GLN:HE22	2:0Z:304:LYS:HE2	1.86	0.41
1:1A:91:VAL:HG11	1:1A:116:VAL:HG13	2.03	0.41
2:1B:203:MET:CE	2:1B:267:PHE:HB3	2.51	0.41
1:1C:393:ALA:O	1:1C:394:PHE:HB2	2.20	0.41
2:1D:346:TRP:CE3	2:1D:346:TRP:C	2.94	0.41
2:1D:363:VAL:HG13	2:1D:366:GLY:HA3	2.01	0.41
1:1E:66:MET:HE1	1:1E:147:MET:CG	2.51	0.41
1:1E:297:LYS:HA	1:1E:297:LYS:HD3	1.74	0.41
2:1F:90:GLU:HB3	2:1F:121:ARG:NH1	2.24	0.41
2:1F:139:ASN:N	2:1F:139:ASN:OD1	2.53	0.41
2:1F:235:ILE:HD13	2:1F:235:ILE:HA	1.79	0.41
2:1F:329:ASN:HA	2:1F:332:VAL:HG12	2.02	0.41
2:1H:269:LEU:HD21	2:1H:301:MET:SD	2.61	0.41
2:1H:431:ASP:HA	2:1H:434:GLU:HG3	2.03	0.41
1:1K:185:ALA:O	1:1K:189:VAL:HG12	2.21	0.41
2:1L:63:PRO:O	2:1L:91:GLN:NE2	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1M:113:ILE:HD13	1:1M:150:LEU:CD2	2.50	0.41
1:1M:331:LEU:HD12	1:1M:331:LEU:HA	1.82	0.41
2:1N:93:ILE:HD12	2:1N:117:LEU:HD21	2.02	0.41
2:1N:121:ARG:HD2	2:1N:121:ARG:HA	1.84	0.41
2:1N:165:SER:HA	2:1N:199:ASP:OD2	2.21	0.41
2:1N:401:LYS:HB3	2:1N:401:LYS:HE3	1.90	0.41
1:1O:95:THR:HG23	1:1O:96:GLY:H	1.86	0.41
1:1O:204:ASN:OD1	39:1O:501:GDP:O2'	2.39	0.41
2:1P:28:HIS:CE1	2:1P:49:PHE:HA	2.56	0.41
2:1P:56:THR:HA	2:2F:285:GLN:HB2	2.03	0.41
2:1P:402:ARG:HD3	2:1P:402:ARG:HA	1.87	0.41
1:1Q:102:ALA:HB1	1:1Q:401:GLU:CG	2.50	0.41
1:1Q:192:LEU:HD23	1:1Q:192:LEU:HA	1.87	0.41
2:1R:312:TYR:CE2	2:1R:341:ILE:HG12	2.56	0.41
2:1T:176:GLN:HG2	2:1T:177:VAL:N	2.36	0.41
1:1U:51:PHE:O	1:1U:62:ARG:NH2	2.54	0.41
1:1U:56:GLY:HA3	10:5B:239:ARG:HB2	2.03	0.41
2:1V:227:LEU:O	2:1V:231:ILE:HG12	2.21	0.41
2:1V:231:ILE:O	2:1V:234:VAL:HG12	2.20	0.41
1:1W:51:PHE:HB3	1:1W:59:TYR:HB3	2.03	0.41
1:1W:379:LYS:O	1:1W:383:GLU:HG2	2.21	0.41
2:1X:363:VAL:HG13	2:1X:366:GLY:HA3	2.03	0.41
2:1Z:319:TYR:HB2	2:1Z:355:ILE:HD13	2.02	0.41
1:2A:210:ILE:O	1:2A:214:THR:OG1	2.26	0.41
1:2A:314:SER:HA	1:2A:350:LYS:O	2.20	0.41
2:2B:5:ILE:HD11	2:2B:135:PHE:CE1	2.55	0.41
2:2B:318:MET:HE2	2:2B:376:CYS:O	2.20	0.41
1:2C:128:ASP:OD1	1:2C:128:ASP:N	2.42	0.41
1:2C:198:GLU:HA	1:2C:264:HIS:HB2	2.03	0.41
1:2C:237:THR:HG23	1:2C:241:ARG:HH21	1.85	0.41
1:2C:260:PHE:HB2	1:2C:263:LEU:HD13	2.02	0.41
1:2C:417:ASP:OD1	1:2C:418:LEU:N	2.53	0.41
2:2D:90:GLU:HB3	2:2D:121:ARG:HH12	1.86	0.41
2:2D:123:ARG:HG2	2:2D:123:ARG:NH1	2.36	0.41
2:2D:269:LEU:HD23	2:2D:269:LEU:HA	1.94	0.41
1:2E:43:GLN:O	1:2E:47:ILE:HG23	2.20	0.41
1:2E:48:ASN:N	1:2E:48:ASN:OD1	2.52	0.41
1:2E:70:PRO:N	1:2E:92:PHE:HZ	2.19	0.41
2:2F:121:ARG:HD2	2:2F:121:ARG:HA	1.74	0.41
2:2F:125:LEU:HD12	2:2F:125:LEU:HA	1.86	0.41
2:2F:155:GLU:HB2	2:2F:197:HIS:CE1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2G:8:GLN:CD	1:2G:17:GLY:HA3	2.41	0.41
1:2G:117:LEU:HD23	1:2G:117:LEU:HA	1.78	0.41
1:2G:286:VAL:HG22	1:2G:321:MET:HE3	2.02	0.41
1:2G:317:PHE:HB3	1:2G:321:MET:SD	2.60	0.41
2:2H:179:THR:O	1:2I:350:LYS:HD2	2.21	0.41
2:2H:387:ILE:HG12	2:2H:390:ARG:NH2	2.35	0.41
1:2I:67:ASP:CG	1:2I:68:LEU:H	2.24	0.41
1:2I:309:ARG:NH1	1:2I:341:PHE:O	2.53	0.41
1:2I:385:PHE:HZ	1:2I:408:PHE:HD1	1.68	0.41
2:2J:62:VAL:HA	2:2J:63:PRO:HD3	1.96	0.41
2:2J:185:TYR:CE1	2:2J:398:MET:HE3	2.55	0.41
1:2K:173:PRO:HD2	1:2K:380:ARG:CZ	2.51	0.41
1:2M:17:GLY:HA2	1:2M:20:PHE:HB3	2.03	0.41
1:2M:167:PHE:CE1	1:2M:200:MET:HG3	2.56	0.41
2:2N:183:GLU:CG	2:2N:184:PRO:HD3	2.51	0.41
2:2N:301:MET:HE1	2:2N:307:PRO:HD3	2.03	0.41
2:2P:227:LEU:O	2:2P:231:ILE:HG12	2.21	0.41
1:2Q:77:ARG:HH11	17:5S:201:LEU:HG	1.86	0.41
1:2Q:209:ASP:OD2	38:8A:105:ARG:CA	2.68	0.41
1:2Q:213:ARG:HH11	38:8A:108:PHE:HE2	1.67	0.41
1:2Q:271:THR:CG2	1:2Q:365:ALA:HB3	2.49	0.41
1:2Q:406:MET:O	1:2Q:410:GLU:HG2	2.21	0.41
2:2R:306:ASP:HB3	2:2R:309:HIS:HD2	1.84	0.41
1:2S:273:LEU:H	1:2S:292:GLN:NE2	2.19	0.41
2:2T:312:TYR:HB2	2:2T:343:PHE:CD1	2.56	0.41
1:2U:154:LYS:HA	1:2U:157:GLU:HG2	2.03	0.41
2:2V:60:LYS:HE2	2:2V:88:HIS:HE1	1.86	0.41
1:2W:148:GLY:O	1:2W:152:ILE:HG12	2.21	0.41
2:2X:8:HIS:NE2	2:2X:138:PHE:HD2	2.19	0.41
2:2X:9:ILE:HD13	2:2X:150:GLY:HA2	2.01	0.41
2:2X:287:SER:N	2:2X:290:GLU:OE2	2.28	0.41
1:2Y:43:GLN:HE21	38:8C:195:MET:CE	2.34	0.41
2:2Z:125:LEU:HD23	2:2Z:125:LEU:HA	1.88	0.41
2:2Z:216:SER:HB3	2:2Z:275:ILE:O	2.21	0.41
2:2Z:278:ALA:HA	2:2Z:369:ALA:HB2	2.02	0.41
1:3A:282:ARG:NH2	1:3A:288:GLU:HG3	2.32	0.41
2:3B:171:VAL:HA	2:3B:204:LEU:O	2.21	0.41
2:3B:179:THR:O	1:3C:350:LYS:HD2	2.21	0.41
2:3B:298:PRO:HD2	38:8C:25:ILE:HG23	2.02	0.41
2:3D:287:SER:H	2:3D:290:GLU:CD	2.21	0.41
2:3F:81:GLY:O	2:3F:84:ARG:NH1	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3F:288:VAL:HG21	2:3F:327:ASP:HB2	2.03	0.41
1:3G:90:PHE:CD2	3:3X:19:LEU:HD22	2.56	0.41
2:3H:3:GLU:HB2	2:3H:129:CYS:SG	2.61	0.41
1:3I:182:PRO:O	1:3I:186:THR:HG23	2.21	0.41
2:3J:246:GLY:HA3	2:3J:356:ASN:HA	2.03	0.41
2:3J:394:LYS:HB2	1:3K:346:PRO:HG3	2.03	0.41
2:3L:11:GLN:HB3	41:3M:501:GTP:O2A	2.20	0.41
1:3M:86:ARG:HB3	1:3M:89:ASN:OD1	2.21	0.41
1:3M:152:ILE:HD12	1:3M:164:MET:SD	2.61	0.41
1:3O:391:ARG:HB2	2:3P:346:TRP:CZ3	2.56	0.41
1:3Q:35:THR:HG21	14:5N:239:GLN:HE22	1.86	0.41
1:3Q:65:LEU:HD13	1:3Q:90:PHE:HD1	1.83	0.41
1:3Q:137:HIS:O	1:3Q:168:SER:HA	2.21	0.41
1:3Q:206:ALA:HA	1:3Q:209:ASP:OD2	2.21	0.41
1:3Q:253:LEU:HD21	1:3Q:316:LEU:HD21	2.03	0.41
2:3R:172:TYR:CE2	2:3R:203:MET:SD	3.13	0.41
2:3R:358:GLN:HG3	2:3R:359:PRO:HD2	2.01	0.41
1:3S:12:CYS:HB2	39:3S:502:GDP:C8	2.56	0.41
1:3S:260:PHE:HB2	1:3S:263:LEU:HD23	2.03	0.41
1:3S:284:LEU:HB3	1:3S:363:MET:HE2	2.03	0.41
1:3S:284:LEU:HD13	1:3S:284:LEU:HA	1.98	0.41
1:3S:344:TRP:CE3	1:3S:345:ILE:HG13	2.56	0.41
2:3T:112:LYS:HA	2:3T:112:LYS:HE3	2.03	0.41
2:3T:138:PHE:CE1	2:3T:169:PHE:HB2	2.56	0.41
2:3T:210:TYR:OH	2:3T:224:TYR:HE1	2.04	0.41
2:3T:316:CYS:HB3	2:3T:378:ILE:CG2	2.51	0.41
3:3V:9:LEU:HD23	3:3V:9:LEU:HA	1.88	0.41
3:3V:88:GLU:O	3:3V:92:THR:HG23	2.21	0.41
3:3V:111:LYS:HE2	3:3V:111:LYS:HB2	1.81	0.41
3:3V:236:VAL:N	3:3V:237:PRO:HD2	2.36	0.41
4:3W:14:LEU:HB2	4:3W:25:TRP:NE1	2.36	0.41
4:3W:69:LEU:HD21	4:3W:153:ARG:HA	2.02	0.41
3:3X:9:LEU:HD23	3:3X:9:LEU:HA	1.89	0.41
3:3X:236:VAL:N	3:3X:237:PRO:HD2	2.36	0.41
4:3Y:2:PHE:HZ	23:6Q:3:LEU:CD1	2.34	0.41
4:3Y:69:LEU:HD21	4:3Y:153:ARG:HA	2.02	0.41
3:3Z:236:VAL:N	3:3Z:237:PRO:HD2	2.36	0.41
4:4A:69:LEU:HD21	4:4A:153:ARG:HA	2.02	0.41
3:4D:88:GLU:O	3:4D:92:THR:HG23	2.21	0.41
3:4D:218:LEU:HA	3:4D:218:LEU:HD23	1.84	0.41
3:4D:236:VAL:N	3:4D:237:PRO:HD2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4E:23:GLU:HG3	4:4E:24:ILE:HG23	2.02	0.41
4:4E:69:LEU:HD21	4:4E:153:ARG:HA	2.02	0.41
3:4F:236:VAL:N	3:4F:237:PRO:HD2	2.36	0.41
3:4H:88:GLU:O	3:4H:92:THR:HG23	2.21	0.41
4:4I:14:LEU:HB2	4:4I:25:TRP:NE1	2.36	0.41
4:4I:69:LEU:HD21	4:4I:153:ARG:HA	2.02	0.41
5:4L:323:LEU:HD13	5:4L:326:GLU:OE1	2.20	0.41
5:4L:464:GLN:O	5:4L:468:SER:N	2.41	0.41
5:4M:265:GLU:HG2	5:4M:268:ARG:HH21	1.85	0.41
6:4O:103:ARG:CZ	30:7K:395:ALA:HA	2.51	0.41
6:4O:487:ILE:HA	6:4O:490:VAL:HG12	2.03	0.41
7:4R:169:GLU:O	7:4R:172:THR:HG22	2.20	0.41
7:4R:183:LEU:HD23	7:4R:183:LEU:HA	1.88	0.41
7:4R:332:LEU:HD23	7:4R:332:LEU:HA	1.83	0.41
7:4U:147:GLU:HA	7:4U:150:VAL:HG12	2.03	0.41
7:4U:261:ASP:OD2	7:4U:262:HIS:N	2.53	0.41
8:4V:424:LYS:HA	8:4V:427:VAL:HG12	2.03	0.41
8:4W:468:MET:O	8:4X:127:THR:CG2	2.69	0.41
9:4Z:89:LYS:HA	9:4Z:89:LYS:HD2	1.84	0.41
9:4Z:291:HIS:HA	9:4Z:294:GLU:HG3	2.01	0.41
9:4Z:329:GLN:HE21	9:4Z:332:GLN:NE2	2.19	0.41
10:5A:265:LYS:HA	10:5A:268:MET:HG2	2.03	0.41
10:5C:430:TYR:O	10:5C:433:GLU:HG2	2.21	0.41
12:5F:280:PHE:CE1	12:5F:290:PHE:HB2	2.56	0.41
14:5L:354:GLU:HB2	14:5L:368:HIS:CD2	2.55	0.41
14:5L:561:VAL:HG13	14:5L:562:ASP:O	2.21	0.41
14:5L:576:LEU:HB3	14:5L:591:GLY:HA2	2.02	0.41
14:5L:580:TRP:HA	14:5L:586:HIS:O	2.21	0.41
14:5M:354:GLU:HB2	14:5M:368:HIS:CD2	2.55	0.41
14:5M:492:SER:HA	14:5M:507:LEU:O	2.21	0.41
14:5N:553:LEU:H	14:5N:553:LEU:HD23	1.86	0.41
14:5N:561:VAL:HG13	14:5N:562:ASP:O	2.21	0.41
15:5P:12:GLU:OE2	15:5P:74:LYS:HE3	2.21	0.41
15:5P:119:LEU:HD23	15:5P:119:LEU:HA	1.92	0.41
16:5Q:20:LYS:HG2	16:5Q:25:TYR:HE2	1.86	0.41
17:5S:31:THR:HB	17:5S:36:PHE:CZ	2.56	0.41
17:5T:31:THR:HB	17:5T:36:PHE:CZ	2.56	0.41
17:5T:185:LEU:HD13	17:5T:222:ILE:HG12	2.03	0.41
17:5U:31:THR:HB	17:5U:36:PHE:CZ	2.56	0.41
18:5X:73:GLN:HG2	18:5X:79:VAL:HG12	2.03	0.41
18:5Y:73:GLN:HG2	18:5Y:79:VAL:HG12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:6B:73:GLN:HG2	18:6B:79:VAL:HG12	2.03	0.41
18:6D:73:GLN:HG2	18:6D:79:VAL:HG12	2.03	0.41
18:6D:103:PRO:HD3	24:7A:178:ASN:HB3	2.02	0.41
19:6E:221:THR:O	19:6E:225:GLU:HG2	2.21	0.41
20:6F:86:ASP:HB3	20:6F:247:TYR:HE1	1.86	0.41
21:6G:15:ASP:HB2	21:6G:19:ARG:HH21	1.85	0.41
21:6H:136:GLN:HE22	21:6H:170:LEU:HB3	1.85	0.41
22:6J:88:GLU:N	22:6J:88:GLU:OE2	2.53	0.41
22:6K:193:MET:HG2	22:6K:194:TYR:CD1	2.56	0.41
22:6O:114:THR:HG23	22:6O:117:GLY:N	2.24	0.41
22:6P:294:LEU:O	22:6P:294:LEU:HD23	2.20	0.41
24:6T:18:LEU:HD23	24:6T:18:LEU:HA	1.92	0.41
24:6T:344:LYS:H	24:6T:344:LYS:HG2	1.66	0.41
24:6T:376:LYS:O	24:6T:380:LYS:HG3	2.20	0.41
24:6T:629:PHE:O	24:6T:633:LEU:HD23	2.21	0.41
24:6U:432:LYS:HE3	24:6U:432:LYS:HB2	1.96	0.41
24:6U:474:PHE:HD2	24:6U:500:ARG:HH21	1.68	0.41
24:6V:24:ASP:OD1	24:6V:25:LYS:N	2.54	0.41
24:6V:123:TYR:HE2	24:6V:163:PRO:HG3	1.86	0.41
24:6V:552:MET:HB2	24:6V:607:HIS:CD2	2.56	0.41
24:6X:299:GLU:HG3	24:6X:300:ASP:N	2.36	0.41
24:6Y:156:ASP:OD1	24:6Y:157:ASP:N	2.54	0.41
24:6Z:451:LYS:HB3	24:6Z:468:ARG:HG3	2.02	0.41
24:6Z:482:ILE:HD13	24:6Z:498:LEU:HD23	2.03	0.41
24:7A:6:PRO:CD	31:7N:83:THR:HG23	2.50	0.41
25:7C:105:SER:HB3	30:7K:248:GLU:HG2	2.02	0.41
26:7F:138:THR:HG23	26:7F:139:PRO:HD2	1.97	0.41
28:7H:392:LEU:HD21	28:7H:433:SER:HA	2.03	0.41
29:7J:383:GLY:HA2	29:7J:386:HIS:CD2	2.56	0.41
30:7K:33:GLU:N	30:7K:33:GLU:OE1	2.54	0.41
31:7N:28:THR:HG23	31:7N:31:LEU:H	1.85	0.41
34:7S:257:ARG:NH1	34:7S:261:MET:HG2	2.35	0.41
35:7U:130:LYS:HE3	35:7U:130:LYS:HB3	1.82	0.41
38:8B:113:ARG:HD2	38:8B:113:ARG:HA	1.92	0.41
38:8D:70:LYS:HD3	38:8D:71:HIS:H	1.86	0.41
38:8D:228:THR:HG23	38:8D:228:THR:O	2.21	0.41
1:3:83:GLN:HB2	24:6U:177:ARG:NH2	2.34	0.41
1:3:306:ARG:NH2	3:3X:60:PRO:HB2	2.36	0.41
2:8:29:GLY:CA	26:7E:45:MET:HE1	2.48	0.41
1:A3:40:SER:CB	26:7F:125:TYR:CD1	3.04	0.41
1:C8:142:GLY:N	39:C8:502:GDP:O2B	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E7:11:GLN:HB3	41:E8:501:GTP:O2A	2.20	0.41
2:G3:3:GLU:O	2:G3:133:GLN:N	2.36	0.41
1:G4:122:LYS:CE	1:I0:291:GLN:HB3	2.51	0.41
2:G5:183:GLU:CG	2:G5:184:PRO:HD3	2.52	0.41
1:G6:203:ASP:OD2	1:G6:204:ASN:N	2.54	0.41
2:G7:274:PRO:HB2	2:G7:276:ILE:CG1	2.51	0.41
1:G8:190:HIS:HD2	1:G8:411:ALA:HA	1.80	0.41
1:G8:227:HIS:O	1:G8:230:SER:OG	2.36	0.41
1:G8:232:VAL:CG1	1:G8:268:VAL:HG11	2.51	0.41
2:G9:57:GLY:H	2:I5:285:GLN:HG2	1.85	0.41
2:G9:259:LEU:HD21	2:G9:316:CYS:HB2	2.03	0.41
2:G9:312:TYR:HA	2:G9:381:SER:HB2	2.03	0.41
2:H1:96:LYS:HA	1:H2:1:MET:SD	2.61	0.41
2:H3:403:ALA:HB2	1:H4:344:TRP:HZ3	1.86	0.41
1:H4:387:ALA:HA	1:H4:390:ARG:HH21	1.85	0.41
2:H7:155:GLU:HB2	2:H7:197:HIS:CE1	2.56	0.41
2:H7:266:HIS:O	2:H7:266:HIS:ND1	2.52	0.41
1:H8:386:THR:O	1:H8:390:ARG:HB2	2.20	0.41
2:H9:178:SER:HB2	2:H9:183:GLU:OE2	2.21	0.41
1:I2:334:GLN:NE2	1:I2:348:ASN:H	2.12	0.41
1:I2:395:LEU:HD12	1:I2:395:LEU:HA	1.84	0.41
2:I3:11:GLN:HB3	41:I4:501:GTP:PA	2.61	0.41
1:I4:137:HIS:O	1:I4:168:SER:HA	2.21	0.41
2:I7:276:ILE:HD13	2:I7:276:ILE:HA	1.85	0.41
1:I8:21:TRP:HA	1:I8:24:VAL:HG22	2.02	0.41
1:I8:203:ASP:OD2	1:I8:302:ALA:N	2.54	0.41
1:J0:135:VAL:O	1:J0:166:THR:HA	2.21	0.41
2:J1:101:ASN:ND2	2:J1:143:GLY:HA2	2.36	0.41
1:J2:164:MET:HB3	1:J2:197:ASP:OD2	2.21	0.41
2:J5:121:ARG:HD2	2:J5:121:ARG:HA	1.98	0.41
1:J8:295:ASP:OD1	1:J8:296:ALA:N	2.54	0.41
1:K0:178:THR:OG1	2:K1:258:ASN:ND2	2.52	0.41
1:K0:399:THR:HA	1:K0:403:MET:O	2.21	0.41
2:K3:56:THR:HG21	2:L9:283:HIS:O	2.21	0.41
1:K6:272:PRO:HD3	1:K6:364:SER:HA	2.03	0.41
2:K7:287:SER:H	2:K7:290:GLU:CD	2.24	0.41
2:K9:241:SER:OG	2:K9:250:VAL:O	2.24	0.41
2:L1:286:LEU:HD13	2:L1:286:LEU:HA	1.94	0.41
1:L2:99:ASN:ND2	2:L3:254:GLU:OE1	2.54	0.41
2:L3:79:ARG:O	2:L3:84:ARG:HG2	2.20	0.41
1:L4:173:PRO:HB3	1:L4:384:GLN:HE22	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L6:318:ARG:HD3	1:L6:358:PRO:HD3	2.03	0.41
2:L7:22:GLU:O	2:L7:26:LEU:HG	2.21	0.41
2:L7:112:LYS:HD3	2:L7:112:LYS:O	2.21	0.41
1:M0:257:LEU:HA	1:M0:312:THR:HG21	2.02	0.41
2:M5:125:LEU:HA	2:M5:125:LEU:HD23	1.81	0.41
2:M5:306:ASP:HB3	2:M5:309:HIS:HD2	1.86	0.41
1:M6:403:MET:HE3	1:M6:403:MET:HB2	1.82	0.41
2:M7:154:LEU:HD23	2:M7:154:LEU:HA	1.90	0.41
2:M7:166:LYS:O	2:M7:198:THR:OG1	2.38	0.41
1:N0:192:LEU:HD23	1:N0:192:LEU:HA	1.81	0.41
2:N1:283:HIS:CD2	2:N1:284:GLU:HG2	2.55	0.41
1:N2:192:LEU:HD23	1:N2:192:LEU:HA	1.93	0.41
2:N5:305:CYS:HB3	2:N5:387:ILE:HD11	2.02	0.41
2:N7:271:SER:HB3	2:N7:377:MET:HE2	2.02	0.41
2:N9:3:GLU:HB2	2:N9:129:CYS:SG	2.61	0.41
2:N9:246:GLY:HA3	2:N9:356:ASN:HA	2.03	0.41
2:N9:279:GLU:HB2	2:N9:280:LYS:NZ	2.36	0.41
2:O1:14:ILE:HD11	2:O1:74:VAL:CG1	2.51	0.41
2:O1:216:SER:OG	2:O1:217:LEU:N	2.53	0.41
1:O2:356:ILE:CD1	37:7Y:234:HIS:HA	2.50	0.41
1:O4:203:ASP:O	1:O4:207:LEU:HD23	2.22	0.41
1:O6:65:LEU:HD13	1:O6:90:PHE:HE1	1.84	0.41
1:O6:83:GLN:O	1:Q4:281:TYR:OH	2.23	0.41
1:O6:276:ARG:HH12	32:7P:97:LEU:HB3	1.86	0.41
2:O7:389:SER:N	2:O7:429:GLU:OE2	2.54	0.41
1:O8:177:ASP:OD2	2:O9:248:LEU:HD11	2.21	0.41
2:O9:406:HIS:HA	2:O9:409:VAL:CG1	2.46	0.41
2:P3:9:ILE:HG22	2:P3:146:GLY:HA2	2.02	0.41
2:P5:387:ILE:HG13	2:P5:390:ARG:HH21	1.86	0.41
1:P8:219:THR:O	1:P8:219:THR:OG1	2.30	0.41
2:Q1:286:LEU:HA	2:Q1:286:LEU:HD12	1.73	0.41
1:Q2:189:VAL:O	1:Q2:193:VAL:HG13	2.20	0.41
1:Q2:271:THR:OG1	1:Q2:272:PRO:HA	2.21	0.41
2:Q5:88:HIS:HE2	2:S1:284:GLU:HB2	1.86	0.41
2:Q5:306:ASP:HB3	2:Q5:309:HIS:HD2	1.85	0.41
1:Q6:385:PHE:HZ	1:Q6:408:PHE:HD1	1.68	0.41
2:Q9:21:TRP:CZ2	2:Q9:65:CYS:HB3	2.56	0.41
2:R3:259:LEU:HD23	2:R3:268:MET:HG2	2.03	0.41
2:R3:420:GLU:HA	2:R3:423:GLU:HG3	2.03	0.41
1:R4:85:PHE:HB2	1:R4:90:PHE:CZ	2.56	0.41
1:R4:232:VAL:O	1:R4:236:ILE:HG12	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R5:84:ARG:NH2	11:5E:10:PRO:HB2	2.36	0.41
2:R9:15:GLN:HB3	2:R9:228:ASN:HD21	1.86	0.41
2:R9:161:TYR:HD1	13:5J:124:VAL:HG13	1.85	0.41
2:R9:394:LYS:HB2	1:S0:346:PRO:HG3	2.03	0.41
2:S1:145:THR:O	2:S1:149:LEU:HD23	2.21	0.41
1:S2:100:ASN:HB3	1:S2:103:LYS:HB2	2.02	0.41
1:S4:215:LEU:HD22	24:6U:12:PRO:HG2	2.02	0.41
1:S4:375:GLN:HB3	1:S4:422:TYR:HD2	1.86	0.41
1:S4:392:LYS:HD3	13:5H:55:VAL:CG1	2.51	0.41
1:S8:189:VAL:O	1:S8:193:VAL:HG13	2.21	0.41
1:S8:192:LEU:HD22	1:S8:196:ALA:HB2	2.03	0.41
2:S9:79:ARG:O	2:S9:84:ARG:HG2	2.20	0.41
2:S9:337:THR:OG1	13:5I:21:ASN:ND2	2.52	0.41
2:T3:70:LEU:HB3	2:T3:97:GLU:O	2.21	0.41
1:T8:65:LEU:HD13	1:T8:90:PHE:CE1	2.55	0.41
1:T8:165:LEU:HD23	1:T8:165:LEU:HA	1.85	0.41
2:U1:289:ALA:O	2:U1:293:ASN:ND2	2.54	0.41
1:U2:203:ASP:N	1:U2:203:ASP:OD1	2.54	0.41
2:U3:298:PRO:HA	2:U3:301:MET:HE2	2.02	0.41
1:U4:273:LEU:H	1:U4:292:GLN:NE2	2.19	0.41
2:U9:89:PRO:HD3	2:W5:283:HIS:ND1	2.37	0.41
1:V0:162:ARG:HD3	1:V0:162:ARG:HA	1.84	0.41
1:V6:19:LYS:HB3	1:V6:19:LYS:HE3	1.86	0.41
1:V6:293:MET:HG3	1:V6:367:PHE:HB2	2.03	0.41
1:V6:350:LYS:HB3	1:V6:350:LYS:HE2	1.63	0.41
2:V7:96:LYS:HD2	1:V8:129:CYS:SG	2.61	0.41
1:V8:58:ARG:HH12	1:V8:84:ILE:HA	1.86	0.41
1:V8:167:PHE:CE2	1:V8:233:MET:HG2	2.56	0.41
1:W0:19:LYS:NZ	1:W0:227:HIS:HD2	2.19	0.41
2:W1:50:ASN:O	2:W1:64:ARG:NH2	2.54	0.41
2:W1:53:PHE:HB3	2:W1:61:HIS:HB3	2.02	0.41
2:W1:74:VAL:O	2:W1:77:GLU:HG3	2.21	0.41
1:W2:203:ASP:N	1:W2:203:ASP:OD1	2.50	0.41
2:W7:205:ASP:OD2	2:W7:303:VAL:HG22	2.21	0.41
2:W7:399:TYR:O	2:W7:402:ARG:NH1	2.52	0.41
2:W9:11:GLN:HE22	2:W9:74:VAL:CG1	2.33	0.41
2:W9:90:GLU:CB	2:W9:121:ARG:NH1	2.84	0.41
1:X0:152:ILE:HD13	1:X0:152:ILE:HA	1.85	0.41
2:X3:107:HIS:CD2	2:X3:152:LEU:HB2	2.56	0.41
2:X3:252:ILE:HD12	2:X3:255:PHE:CE2	2.56	0.41
2:X5:319:TYR:HB2	2:X5:355:ILE:HG12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X9:320:ARG:HE	2:X9:320:ARG:HB3	1.72	0.41
1:Y0:292:GLN:HG2	1:Y0:298:ASN:ND2	2.36	0.41
2:Y1:23:LEU:HD12	2:Y1:26:LEU:HD11	2.03	0.41
2:Y1:132:LEU:HD23	2:Y1:164:LYS:HE3	2.03	0.41
2:Y3:216:SER:OG	2:Y3:217:LEU:N	2.53	0.41
1:Y4:192:LEU:HD22	1:Y4:196:ALA:HB2	2.02	0.41
2:Y5:21:TRP:CZ3	2:Y5:63:PRO:HB3	2.56	0.41
1:Y6:41:ASP:N	1:Y6:41:ASP:OD1	2.53	0.41
1:Y8:68:LEU:HD23	1:Y8:93:GLY:HA3	2.03	0.41
1:Y8:380:ARG:NH1	1:Y8:383:GLU:OE2	2.53	0.41
2:Y9:136:LEU:HD21	2:Y9:138:PHE:CE1	2.56	0.41
1:Z0:19:LYS:HE3	1:Z0:19:LYS:HB3	1.90	0.41
1:Z0:100:ASN:HB3	1:Z0:103:LYS:HB2	2.02	0.41
1:Z0:114:ASP:OD1	1:Z0:115:SER:N	2.52	0.41
2:Z1:181:VAL:HG22	1:Z2:347:ASN:O	2.21	0.41
2:Z3:397:LEU:HD23	2:Z3:397:LEU:HA	1.90	0.41
2:Z5:66:ILE:HG13	2:Z5:66:ILE:O	2.21	0.41
2:Z7:429:GLU:O	2:Z7:433:GLU:HG2	2.21	0.41
1:Z8:19:LYS:HE3	1:Z8:19:LYS:HB3	1.84	0.41
1:Z8:203:ASP:O	1:Z8:207:LEU:HD13	2.21	0.41
1:Z8:317:PHE:HB2	1:Z8:353:VAL:HG22	2.03	0.41
2:Z9:397:LEU:HD23	2:Z9:397:LEU:HA	1.87	0.41
1:0A:109:GLY:O	1:0A:113:ILE:HG22	2.21	0.41
1:0A:237:THR:HG23	1:0A:241:ARG:HE	1.86	0.41
1:0E:152:ILE:HD13	1:0E:155:ILE:HD11	2.04	0.41
2:0F:239:THR:O	2:0F:242:LEU:HG	2.21	0.41
1:0G:21:TRP:CH2	1:0G:61:PRO:HB3	2.56	0.41
1:0G:136:CYS:SG	1:0G:167:PHE:HD2	2.44	0.41
1:0G:242:PHE:CD1	1:0G:356:ILE:HG13	2.56	0.41
1:0I:379:LYS:HA	1:0I:382:SER:OG	2.21	0.41
2:0J:203:MET:CE	2:0J:267:PHE:HB3	2.51	0.41
2:0L:359:PRO:HA	2:0L:360:PRO:HD3	1.97	0.41
2:0P:325:PRO:HA	2:0P:328:VAL:HG12	2.03	0.41
1:0Q:344:TRP:CE3	1:0Q:345:ILE:HG13	2.56	0.41
2:0R:312:TYR:CE2	2:0R:341:ILE:HG12	2.55	0.41
2:0R:352:LYS:HD2	2:0R:352:LYS:HA	1.88	0.41
1:0S:396:HIS:HA	1:0S:399:THR:HG22	2.03	0.41
1:0U:107:THR:HB	1:0U:108:GLU:OE1	2.21	0.41
1:0U:174:LYS:HD3	1:0U:174:LYS:C	2.40	0.41
2:0V:246:GLY:HA2	2:0V:357:TYR:CD2	2.56	0.41
1:0W:103:LYS:HA	1:0W:107:THR:HG23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0W:116:VAL:O	1:0W:120:VAL:HG12	2.21	0.41
2:1B:175:PRO:HG2	2:1B:176:GLN:OE1	2.21	0.41
2:1F:76:ASP:OD1	2:1F:79:ARG:NH2	2.54	0.41
2:1H:207:GLU:OE2	2:1H:210:TYR:HB2	2.21	0.41
1:1K:137:HIS:O	1:1K:168:SER:HA	2.21	0.41
1:1M:58:ARG:HD2	1:1M:58:ARG:HA	1.88	0.41
1:1O:314:SER:OG	1:1O:368:ILE:HB	2.21	0.41
1:1Q:68:LEU:HD21	1:1Q:112:LEU:HD22	2.03	0.41
1:1Q:293:MET:HE2	1:1Q:367:PHE:HB2	2.03	0.41
2:1R:327:ASP:OD1	2:1R:327:ASP:N	2.51	0.41
2:1R:353:CYS:SG	2:1R:354:GLY:N	2.94	0.41
1:1S:172:SER:HG	1:1S:380:ARG:HH22	1.66	0.41
1:1S:356:ILE:HD13	1:1S:356:ILE:HA	1.83	0.41
1:1W:165:LEU:HD21	1:1W:250:LEU:HD11	2.03	0.41
2:1Z:147:SER:OG	2:1Z:148:GLY:N	2.54	0.41
1:2A:285:THR:HB	1:2A:287:PRO:HD2	2.02	0.41
2:2B:32:PRO:HB3	2:2B:83:TYR:CE1	2.55	0.41
1:2C:25:SER:OG	1:2C:30:ILE:O	2.38	0.41
1:2C:279:GLN:NE2	1:2C:282:ARG:HD3	2.36	0.41
2:2F:76:ASP:O	2:2F:80:THR:HG23	2.21	0.41
2:2F:288:VAL:HG11	2:2F:328:VAL:HG12	2.02	0.41
1:2G:125:GLU:OE1	38:8B:53:ALA:HB1	2.21	0.41
2:2H:72:PRO:HD2	1:2I:2:ARG:NH1	2.36	0.41
2:2L:3:GLU:HB2	2:2L:129:CYS:SG	2.61	0.41
1:2M:43:GLN:O	1:2M:47:ILE:HG23	2.20	0.41
1:2M:172:SER:HB2	1:2M:380:ARG:HH21	1.85	0.41
2:2N:119:LEU:O	2:2N:122:ILE:HG12	2.20	0.41
2:2P:69:ASP:OD1	2:2P:71:GLU:N	2.53	0.41
1:2Q:58:ARG:HG2	1:3G:280:GLN:HE22	1.86	0.41
1:2Q:233:MET:HA	1:2Q:236:ILE:HG22	2.02	0.41
1:2Q:295:ASP:OD2	1:2Q:297:LYS:HB2	2.20	0.41
1:2S:395:LEU:O	1:2S:399:THR:HG23	2.20	0.41
1:2U:95:THR:HG23	1:2U:96:GLY:N	2.35	0.41
1:2U:107:THR:OG1	1:2U:108:GLU:OE1	2.25	0.41
1:2U:325:GLU:O	1:2U:329:GLN:HB2	2.21	0.41
2:2V:90:GLU:HG3	2:2V:121:ARG:NH1	2.36	0.41
1:2W:10:GLY:HA2	1:2W:143:THR:HG23	2.02	0.41
1:2W:117:LEU:HA	1:2W:117:LEU:HD23	1.84	0.41
1:3A:67:ASP:OD1	1:3A:143:THR:HG21	2.20	0.41
2:3B:224:TYR:O	2:3B:228:ASN:ND2	2.53	0.41
2:3B:317:LEU:HB3	2:3B:319:TYR:HE1	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3B:398:MET:CG	1:3C:346:PRO:HD2	2.51	0.41
1:3C:306:ARG:NE	38:8D:97:PHE:H	2.19	0.41
2:3D:405:VAL:O	2:3D:409:VAL:HG23	2.21	0.41
2:3F:298:PRO:HG3	2:3F:308:ARG:HH12	1.86	0.41
2:3F:428:LEU:HA	2:3F:431:ASP:OD1	2.21	0.41
1:3I:30:ILE:CD1	1:3I:59:TYR:HB2	2.51	0.41
1:3I:192:LEU:HA	1:3I:192:LEU:HD23	1.80	0.41
1:3I:273:LEU:H	1:3I:292:GLN:HE22	1.67	0.41
1:3I:317:PHE:CB	1:3I:321:MET:HE1	2.50	0.41
2:3J:122:ILE:HD13	2:3J:125:LEU:CD1	2.51	0.41
2:3J:326:LYS:HE3	2:3J:326:LYS:HB3	1.88	0.41
2:3L:269:LEU:HD21	2:3L:301:MET:SD	2.61	0.41
1:3M:165:LEU:HD11	1:3M:250:LEU:HD11	2.03	0.41
2:3N:221:ARG:HB2	38:8C:174:SER:OG	2.21	0.41
1:3Q:152:ILE:HD12	1:3Q:164:MET:SD	2.61	0.41
2:3R:420:GLU:HA	2:3R:423:GLU:HG3	2.03	0.41
4:3W:23:GLU:HG3	4:3W:24:ILE:HG23	2.01	0.41
3:3Z:10:PHE:HB3	3:3Z:140:LYS:HZ2	1.85	0.41
3:3Z:111:LYS:HE2	3:3Z:111:LYS:HB2	1.81	0.41
4:4A:14:LEU:HB2	4:4A:25:TRP:NE1	2.36	0.41
3:4B:236:VAL:N	3:4B:237:PRO:HD2	2.36	0.41
4:4C:69:LEU:HD21	4:4C:153:ARG:HA	2.02	0.41
3:4D:10:PHE:HB3	3:4D:140:LYS:HZ2	1.85	0.41
4:4E:14:LEU:HB2	4:4E:25:TRP:NE1	2.36	0.41
4:4G:14:LEU:HB2	4:4G:25:TRP:NE1	2.36	0.41
3:4H:9:LEU:HD23	3:4H:9:LEU:HA	1.88	0.41
3:4H:10:PHE:HB3	3:4H:140:LYS:HZ2	1.85	0.41
3:4H:236:VAL:N	3:4H:237:PRO:HD2	2.36	0.41
4:4I:21:PRO:HD2	3:4J:258:ASP:OD1	2.21	0.41
6:4P:152:LEU:HA	6:4P:152:LEU:HD23	1.86	0.41
7:4Q:324:GLN:CA	24:6T:22:LEU:HD23	2.51	0.41
7:4S:14:GLU:HB2	7:4S:18:ARG:HH12	1.86	0.41
9:4Z:402:ALA:HA	9:4Z:405:GLN:NE2	2.36	0.41
10:5C:180:GLU:OE2	10:5C:183:ARG:NH2	2.54	0.41
10:5C:421:VAL:HG22	10:5C:424:MET:HE3	2.03	0.41
11:5E:165:LEU:HD23	11:5E:165:LEU:HA	1.86	0.41
12:5F:332:ASN:O	12:7B:47:GLN:NE2	2.54	0.41
14:5L:111:PHE:C	14:5L:155:PHE:CD2	2.94	0.41
14:5L:553:LEU:H	14:5L:553:LEU:HD23	1.86	0.41
14:5L:562:ASP:OD1	14:5L:607:LYS:HG3	2.21	0.41
14:5M:277:LYS:HE2	14:5M:277:LYS:HB2	1.90	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:5M:553:LEU:H	14:5M:553:LEU:HD23	1.86	0.41
14:5M:561:VAL:HG13	14:5M:562:ASP:O	2.21	0.41
14:5M:580:TRP:HA	14:5M:586:HIS:O	2.21	0.41
14:5N:562:ASP:OD1	14:5N:607:LYS:HG3	2.21	0.41
14:5N:576:LEU:HB3	14:5N:591:GLY:HA2	2.02	0.41
15:5O:289:LEU:C	15:5O:289:LEU:CD2	2.85	0.41
15:5P:52:TYR:CD2	15:5P:55:LEU:CD2	3.03	0.41
16:5Q:39:PHE:CE2	16:5Q:61:ILE:HD13	2.56	0.41
17:5T:181:LEU:C	17:5T:181:LEU:CD2	2.85	0.41
18:5Y:65:VAL:O	18:5Y:69:THR:HG22	2.21	0.41
18:5Y:192:SER:O	18:5Y:196:VAL:HG23	2.21	0.41
18:6B:5:VAL:HG13	18:6B:62:GLU:HG2	2.03	0.41
18:6B:192:SER:O	18:6B:196:VAL:HG23	2.21	0.41
18:6C:192:SER:O	18:6C:196:VAL:HG23	2.21	0.41
18:6D:65:VAL:O	18:6D:69:THR:HG22	2.21	0.41
18:6D:192:SER:O	18:6D:196:VAL:HG23	2.21	0.41
20:6F:51:ALA:O	20:6F:52:LEU:HD23	2.21	0.41
20:6F:193:ARG:O	20:6F:193:ARG:HG3	2.20	0.41
22:6L:345:ALA:O	22:6L:349:VAL:HG22	2.20	0.41
24:6V:344:LYS:H	24:6V:344:LYS:HG2	1.66	0.41
24:6Z:280:ASP:HA	24:6Z:289:ARG:HB2	2.02	0.41
24:6Z:469:PHE:CB	24:6Z:484:GLU:HA	2.51	0.41
29:7I:167:ILE:HD12	29:7I:167:ILE:HA	1.92	0.41
29:7I:253:ASN:CB	30:7K:341:ARG:NH2	2.84	0.41
33:7Q:148:LEU:HD13	33:7Q:148:LEU:HA	1.89	0.41
34:7R:185:MET:O	34:7R:188:ILE:HG22	2.20	0.41
38:8B:84:ILE:H	38:8B:84:ILE:HG12	1.66	0.41
1:A3:423:GLN:HB3	3:4H:109:ALA:HB2	2.02	0.40
1:F6:276:ARG:HD3	24:6T:419:SER:HB2	2.03	0.40
1:G2:22:GLU:HG2	1:G2:81:TYR:CE1	2.56	0.40
2:G7:62:VAL:HA	2:G7:63:PRO:HD3	1.97	0.40
1:G8:145:SER:OG	1:G8:146:GLY:N	2.54	0.40
2:G9:430:LYS:O	2:G9:433:GLU:HG3	2.22	0.40
2:H1:217:LEU:HD23	2:H1:217:LEU:HA	1.84	0.40
1:H2:49:VAL:HG13	1:H2:50:TYR:CD2	2.57	0.40
2:H3:102:ASN:ND2	2:H3:105:ARG:HB2	2.36	0.40
2:H3:194:LEU:O	2:H3:198:THR:HG22	2.21	0.40
2:H5:200:VAL:HG13	2:H5:268:MET:CE	2.51	0.40
1:I0:330:MET:SD	1:I0:349:VAL:HG11	2.60	0.40
2:I1:403:ALA:HB2	1:I2:344:TRP:HZ3	1.86	0.40
1:I4:48:ASN:OD1	1:I4:48:ASN:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I4:125:GLU:OE1	1:K0:336:LYS:NZ	2.48	0.40
1:I4:218:THR:OG1	24:6Z:488:ARG:CA	2.67	0.40
1:I4:325:GLU:O	1:I4:329:GLN:HB2	2.22	0.40
2:I5:90:GLU:H	2:K1:283:HIS:HE1	1.67	0.40
2:I5:139:ASN:O	2:I5:170:THR:HA	2.20	0.40
2:I5:387:ILE:HG12	2:I5:390:ARG:HH22	1.86	0.40
2:I9:389:SER:N	2:I9:429:GLU:OE2	2.54	0.40
2:I9:402:ARG:HA	2:I9:402:ARG:HD3	1.83	0.40
1:J0:52:ASN:O	1:J0:60:VAL:HG12	2.20	0.40
1:J0:58:ARG:HB2	6:4O:224:ARG:NH1	2.36	0.40
1:J0:176:SER:HB2	2:J1:349:THR:OG1	2.21	0.40
2:J1:280:LYS:O	2:J1:283:HIS:HB3	2.21	0.40
2:J5:101:ASN:ND2	2:J5:143:GLY:HA2	2.36	0.40
2:J9:428:LEU:HG	2:J9:432:PHE:CE2	2.55	0.40
1:K0:99:ASN:ND2	2:K1:254:GLU:OE2	2.55	0.40
2:K1:75:VAL:HG11	2:K1:94:SER:HB3	2.02	0.40
2:K1:326:LYS:HG3	2:K1:327:ASP:N	2.36	0.40
2:K1:344:VAL:HG22	2:K1:346:TRP:HD1	1.85	0.40
1:L2:68:LEU:HB3	1:L2:96:GLY:HA2	2.03	0.40
2:L3:11:GLN:NE2	2:L3:71:GLU:OE2	2.53	0.40
1:L4:371:SER:OG	1:L4:372:THR:N	2.53	0.40
2:L5:62:VAL:HA	2:L5:63:PRO:HD3	1.87	0.40
1:L6:67:ASP:N	1:L6:67:ASP:OD1	2.52	0.40
2:L7:9:ILE:HD13	2:L7:137:VAL:HG13	2.03	0.40
2:L7:278:ALA:HB3	6:4P:209:LYS:NZ	2.36	0.40
2:L7:278:ALA:HA	2:L7:369:ALA:HB2	2.03	0.40
2:M1:3:GLU:HB2	2:M1:129:CYS:SG	2.60	0.40
1:M2:152:ILE:HD12	1:M2:164:MET:SD	2.61	0.40
1:M4:49:VAL:HG11	1:M4:241:ARG:HG2	2.02	0.40
1:M4:218:THR:OG1	1:M4:219:THR:N	2.54	0.40
2:M7:325:PRO:HA	2:M7:328:VAL:HG12	2.02	0.40
1:M8:174:LYS:HE2	1:M8:174:LYS:HB3	1.92	0.40
2:M9:9:ILE:HG12	2:M9:68:LEU:HD11	2.03	0.40
1:N0:221:THR:HG22	1:N0:222:PHE:N	2.36	0.40
2:N1:2:ARG:HA	2:N1:133:GLN:HE21	1.86	0.40
2:N1:177:VAL:HG21	2:N1:207:GLU:OE1	2.21	0.40
1:N2:183:TYR:HB3	1:N2:398:TYR:HE2	1.86	0.40
2:N3:3:GLU:HB2	2:N3:129:CYS:SG	2.61	0.40
1:N8:103:LYS:O	1:N8:108:GLU:HB2	2.22	0.40
1:N8:208:TYR:CE1	1:N8:225:LEU:HD11	2.56	0.40
2:N9:261:PRO:HG3	2:N9:313:MET:HE2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O1:70:LEU:HG	2:O1:145:THR:HG23	2.01	0.40
2:O1:225:THR:HG21	37:7Y:241:THR:HB	2.03	0.40
2:O1:401:LYS:HB3	2:O1:401:LYS:HE3	1.91	0.40
1:O2:3:GLU:HB2	1:O2:130:LEU:HA	2.03	0.40
1:O2:183:TYR:O	1:O2:187:LEU:HD13	2.21	0.40
2:O3:291:ILE:HG22	37:7Y:90:LEU:HD22	2.03	0.40
1:O4:317:PHE:HB3	1:O4:321:MET:SD	2.62	0.40
2:O7:178:SER:OG	1:O8:347:ASN:ND2	2.54	0.40
2:O7:287:SER:N	2:O7:290:GLU:OE2	2.25	0.40
1:O8:403:MET:HE3	1:O8:403:MET:HB2	1.86	0.40
2:O9:428:LEU:HG	2:O9:432:PHE:CE2	2.56	0.40
2:P3:117:LEU:HD12	2:P3:117:LEU:HA	1.90	0.40
1:P4:31:ASP:OD2	1:P4:33:THR:OG1	2.36	0.40
2:P7:115:VAL:HG22	2:P7:119:LEU:HD23	2.01	0.40
2:P7:156:ARG:HA	2:P7:159:VAL:HG12	2.03	0.40
2:P7:334:THR:O	2:P7:338:LYS:HG3	2.21	0.40
1:Q0:313:ALA:HA	1:Q0:369:GLY:HA2	2.02	0.40
2:Q1:430:LYS:O	2:Q1:433:GLU:N	2.53	0.40
1:Q2:167:PHE:HE1	1:Q2:200:MET:SD	2.44	0.40
2:Q3:86:LEU:O	2:Q3:86:LEU:CG	2.68	0.40
2:Q3:315:CYS:SG	2:Q3:379:SER:HB3	2.61	0.40
1:Q6:173:PRO:HB3	1:Q6:384:GLN:HE22	1.86	0.40
1:Q8:232:VAL:CG1	1:Q8:268:VAL:HG11	2.50	0.40
2:Q9:88:HIS:ND1	2:S5:283:HIS:HB3	2.36	0.40
2:Q9:176:GLN:HG2	2:Q9:177:VAL:N	2.36	0.40
1:R0:190:HIS:CD2	1:R0:414:ASN:HB2	2.56	0.40
1:R0:405:GLU:HA	1:R0:408:PHE:HD2	1.86	0.40
2:R1:112:LYS:HB2	2:R1:113:GLU:OE2	2.21	0.40
2:R1:401:LYS:HB3	2:R1:401:LYS:HE3	1.90	0.40
1:R2:5:VAL:CG1	1:R2:133:PHE:HD1	2.34	0.40
1:R4:163:MET:SD	1:R4:251:ARG:HG3	2.61	0.40
2:R5:192:HIS:O	2:R5:192:HIS:ND1	2.53	0.40
2:R5:325:PRO:HA	2:R5:328:VAL:HG22	2.03	0.40
1:R6:156:ARG:NH1	1:R6:197:ASP:OD1	2.54	0.40
1:R6:227:HIS:O	1:R6:230:SER:OG	2.28	0.40
2:R7:320:ARG:HE	2:R7:320:ARG:HB3	1.58	0.40
1:R8:313:ALA:HA	1:R8:369:GLY:HA2	2.02	0.40
2:R9:346:TRP:CD1	2:R9:346:TRP:N	2.88	0.40
1:S2:274:THR:HG21	1:S2:282:ARG:CD	2.51	0.40
2:S5:384:ILE:H	2:S5:384:ILE:HG12	1.72	0.40
2:S5:398:MET:HG3	1:S6:346:PRO:HD2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S6:164:MET:N	1:S6:197:ASP:OD2	2.54	0.40
2:S9:72:PRO:HD2	1:T0:2:ARG:HH12	1.85	0.40
1:T0:374:ILE:HD12	1:T0:374:ILE:HA	1.94	0.40
2:T1:198:THR:HG23	2:T1:266:HIS:CE1	2.56	0.40
2:T1:326:LYS:HE3	2:T1:326:LYS:HB2	1.98	0.40
1:T2:393:ALA:HB2	2:T3:346:TRP:CE3	2.56	0.40
1:T2:415:MET:O	1:T2:419:VAL:HG13	2.22	0.40
1:T4:306:ARG:NH2	13:5J:104:MET:O	2.54	0.40
2:T5:11:GLN:HB3	41:T6:501:GTP:PA	2.61	0.40
2:T5:21:TRP:CZ2	2:T5:65:CYS:HB3	2.56	0.40
1:T6:214:THR:OG1	1:T6:215:LEU:N	2.54	0.40
1:T6:245:GLN:HG2	33:7Q:139:GLU:CD	2.41	0.40
1:T6:376:GLU:OE2	13:5K:43:THR:HG22	2.21	0.40
2:T7:176:GLN:CD	2:T7:176:GLN:H	2.25	0.40
2:U1:35:GLN:HB3	2:U1:59:GLY:O	2.20	0.40
2:U1:177:VAL:HG13	1:U2:327:ASP:HB3	2.03	0.40
1:U2:391:ARG:HG3	2:U3:346:TRP:CE3	2.55	0.40
2:U3:6:SER:O	2:U3:65:CYS:HA	2.19	0.40
1:U4:396:HIS:CE1	1:U4:397:TRP:CE2	3.08	0.40
2:U5:76:ASP:HA	2:U5:79:ARG:HE	1.86	0.40
1:U6:286:VAL:CG2	1:U6:287:PRO:HD3	2.51	0.40
1:U6:390:ARG:HE	1:U6:390:ARG:HB2	1.70	0.40
1:U8:20:PHE:O	1:U8:23:VAL:HG12	2.21	0.40
2:U9:53:PHE:HB3	2:U9:61:HIS:HB3	2.03	0.40
2:U9:239:THR:HG22	2:U9:239:THR:O	2.20	0.40
2:V1:369:ALA:O	2:V1:371:VAL:HG23	2.21	0.40
1:V2:272:PRO:O	1:V2:273:LEU:HD23	2.21	0.40
2:V3:35:GLN:HB3	2:V3:59:GLY:O	2.20	0.40
2:V3:133:GLN:HB3	2:V3:252:ILE:HG21	2.02	0.40
2:V3:191:THR:HA	2:V3:194:LEU:HB2	2.03	0.40
2:V3:222:PRO:CD	1:V4:324:LYS:HE3	2.51	0.40
2:V3:265:ILE:HD11	2:V3:435:VAL:HG21	2.03	0.40
1:V6:208:TYR:HA	1:V6:211:CYS:SG	2.61	0.40
2:V7:76:ASP:O	2:V7:80:THR:HG22	2.22	0.40
2:V7:298:PRO:HA	2:V7:301:MET:HG3	2.03	0.40
2:V9:33:ASP:O	2:V9:60:LYS:NZ	2.42	0.40
2:V9:121:ARG:HA	2:V9:121:ARG:HD2	1.81	0.40
2:W1:151:SER:HB2	2:W1:193:SER:OG	2.21	0.40
1:W6:154:LYS:O	1:W6:157:GLU:HG3	2.22	0.40
1:W6:387:ALA:HA	1:W6:390:ARG:HH21	1.86	0.40
2:W7:79:ARG:HG2	2:W7:92:LEU:HD13	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W7:179:THR:O	1:W8:350:LYS:HD2	2.21	0.40
2:W7:204:LEU:HD22	2:W7:231:ILE:HD12	2.03	0.40
1:W8:121:ARG:NH2	1:W8:158:GLU:OE2	2.47	0.40
2:W9:5:ILE:HG12	2:W9:135:PHE:HD1	1.86	0.40
1:X2:222:PHE:HA	1:X2:225:LEU:HD12	2.03	0.40
2:X3:360:PRO:HD2	2:X3:371:VAL:HG23	2.02	0.40
1:X4:30:ILE:HG13	1:X4:35:THR:O	2.21	0.40
1:X6:6:HIS:CE1	1:X6:8:GLN:HG2	2.55	0.40
2:X7:121:ARG:HD2	2:X7:121:ARG:HA	1.72	0.40
1:X8:177:ASP:OD1	2:X9:248:LEU:HD11	2.21	0.40
2:X9:62:VAL:HB	2:X9:88:HIS:ND1	2.36	0.40
2:X9:244:PHE:HB2	2:X9:356:ASN:HD21	1.87	0.40
2:Y1:327:ASP:OD1	2:Y1:328:VAL:N	2.53	0.40
1:Y2:404:ASP:OD1	1:Y2:405:GLU:N	2.54	0.40
1:Y4:134:GLN:HA	1:Y4:165:LEU:O	2.21	0.40
2:Y5:251:ASP:HB3	2:Y5:254:GLU:OE2	2.21	0.40
1:Y8:12:CYS:SG	1:Y8:138:SER:HB3	2.62	0.40
1:Y8:95:THR:HG23	1:Y8:96:GLY:N	2.36	0.40
1:Y8:314:SER:HA	1:Y8:350:LYS:O	2.21	0.40
1:Z0:190:HIS:CD2	1:Z0:414:ASN:HB2	2.55	0.40
1:Z0:322:SER:OG	1:Z0:325:GLU:HG2	2.21	0.40
2:Z1:278:ALA:HA	2:Z1:369:ALA:HB2	2.03	0.40
1:Z2:250:LEU:HA	1:Z2:253:LEU:HD12	2.03	0.40
1:Z2:297:LYS:HD3	1:Z2:297:LYS:HA	1.74	0.40
1:Z2:394:PHE:HA	2:Z3:261:PRO:HA	2.02	0.40
2:Z3:3:GLU:HB2	2:Z3:129:CYS:SG	2.61	0.40
2:Z3:194:LEU:HG	2:Z3:198:THR:HG21	2.03	0.40
2:Z3:236:SER:HA	2:Z3:239:THR:HG22	2.02	0.40
1:Z4:156:ARG:HD2	1:Z4:156:ARG:HA	1.91	0.40
2:Z5:9:ILE:HD13	2:Z5:150:GLY:HA2	2.03	0.40
2:Z5:296:PHE:CE2	2:Z5:335:ILE:HD13	2.56	0.40
1:Z8:54:ALA:HB3	1:Z8:58:ARG:HB3	2.03	0.40
1:0A:58:ARG:HH11	1:0A:84:ILE:HA	1.86	0.40
1:0A:130:LEU:HG	1:0A:132:GLY:N	2.36	0.40
1:0E:152:ILE:HD13	1:0E:152:ILE:HA	1.90	0.40
2:0F:9:ILE:HB	2:0F:139:ASN:HB3	2.03	0.40
2:0F:223:THR:HG23	2:0F:225:THR:H	1.86	0.40
2:0F:349:THR:O	2:0F:349:THR:HG23	2.21	0.40
1:0G:121:ARG:NH2	1:0G:158:GLU:OE2	2.54	0.40
1:0G:311:LEU:HD23	1:0G:312:THR:HG23	2.01	0.40
1:0I:8:GLN:O	1:0I:66:MET:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0I:378:PHE:HB3	1:0I:415:MET:SD	2.61	0.40
2:0J:187:SER:O	2:0J:190:SER:OG	2.32	0.40
1:0M:414:ASN:HA	1:0M:417:ASP:OD2	2.20	0.40
2:0N:12:ALA:HA	2:0N:15:GLN:OE1	2.21	0.40
1:0O:286:VAL:CG2	1:0O:287:PRO:HD3	2.51	0.40
1:0Q:343:GLU:HG2	1:0Q:344:TRP:N	2.35	0.40
1:0S:135:VAL:HG13	1:0S:166:THR:HA	2.03	0.40
1:0W:3:GLU:OE2	1:0W:3:GLU:N	2.54	0.40
2:0X:223:THR:HG23	2:0X:225:THR:H	1.86	0.40
1:0Y:97:ALA:HA	1:0Y:103:LYS:HE3	2.03	0.40
2:0Z:101:ASN:HD22	2:0Z:143:GLY:HA2	1.86	0.40
2:0Z:209:ILE:HG21	2:0Z:227:LEU:HG	2.02	0.40
2:1B:88:HIS:HB3	2:1B:90:GLU:CD	2.41	0.40
1:1C:162:ARG:HA	1:1C:162:ARG:HD3	1.86	0.40
1:1C:172:SER:O	1:1C:176:SER:OG	2.31	0.40
1:1E:268:VAL:HG12	1:1E:368:ILE:HG13	2.03	0.40
2:1F:5:ILE:HD11	2:1F:135:PHE:HE1	1.85	0.40
2:1F:75:VAL:HG11	2:1F:94:SER:OG	2.22	0.40
1:1G:174:LYS:HE2	1:1G:174:LYS:HB3	1.94	0.40
2:1H:384:ILE:HG23	2:1H:432:PHE:CE1	2.56	0.40
2:1L:328:VAL:O	2:1L:332:VAL:HG12	2.20	0.40
2:1N:402:ARG:HD3	2:1N:402:ARG:HA	1.81	0.40
1:1O:375:GLN:HB2	1:1O:419:VAL:HG23	2.02	0.40
2:1P:417:GLU:HA	2:1P:420:GLU:HG2	2.03	0.40
2:1R:235:ILE:O	2:1R:239:THR:HG23	2.21	0.40
2:1T:335:ILE:HD13	2:1T:335:ILE:HA	1.94	0.40
2:1T:377:MET:SD	2:1T:379:SER:HB2	2.61	0.40
2:1V:34:GLY:HA3	2:1V:60:LYS:NZ	2.35	0.40
1:1W:273:LEU:H	1:1W:292:GLN:NE2	2.19	0.40
2:1X:191:THR:HA	2:1X:194:LEU:HD12	2.03	0.40
2:1X:425:LEU:HA	2:1X:428:LEU:HG	2.02	0.40
2:1Z:328:VAL:O	2:1Z:332:VAL:HG13	2.20	0.40
1:2A:167:PHE:CE1	1:2A:200:MET:HG3	2.56	0.40
1:2A:396:HIS:CE1	1:2A:397:TRP:CE2	3.08	0.40
1:2E:392:LYS:HD2	1:2E:395:LEU:HD22	2.03	0.40
2:2H:87:PHE:O	2:2H:89:PRO:HD3	2.22	0.40
2:2H:287:SER:HG	2:2H:290:GLU:CD	2.22	0.40
1:2I:101:TRP:HE3	1:2I:403:MET:HE1	1.86	0.40
1:2I:183:TYR:O	1:2I:187:LEU:HD13	2.21	0.40
1:2I:210:ILE:O	1:2I:214:THR:OG1	2.31	0.40
2:2J:216:SER:O	2:2J:280:LYS:NZ	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2L:21:TRP:CZ2	2:2L:65:CYS:HB2	2.57	0.40
1:2M:396:HIS:HA	1:2M:399:THR:OG1	2.20	0.40
2:2N:33:ASP:OD1	2:2N:34:GLY:N	2.54	0.40
2:2N:251:ASP:OD1	2:2N:254:GLU:HG2	2.20	0.40
2:2P:124:LYS:HA	2:2P:127:ASP:OD2	2.21	0.40
2:2P:297:GLU:OE2	38:7Z:25:ILE:N	2.54	0.40
1:2S:183:TYR:O	1:2S:187:LEU:HD13	2.20	0.40
1:2S:328:GLU:HB3	38:8A:67:PHE:CZ	2.56	0.40
1:2S:371:SER:OG	1:2S:372:THR:N	2.54	0.40
2:2T:242:LEU:HD23	2:2T:242:LEU:HA	1.92	0.40
1:2W:5:VAL:HG22	1:2W:133:PHE:CD1	2.55	0.40
2:2X:276:ILE:HD11	2:2X:280:LYS:CD	2.52	0.40
1:3A:306:ARG:NH1	38:8C:51:GLN:HA	2.36	0.40
2:3B:141:VAL:O	2:3B:147:SER:OG	2.38	0.40
2:3F:56:THR:HG21	3:3V:34:SER:HA	2.03	0.40
2:3H:274:PRO:HD3	2:3H:374:ALA:HA	2.02	0.40
1:3I:67:ASP:OD1	1:3I:68:LEU:N	2.49	0.40
1:3I:167:PHE:CZ	1:3I:233:MET:HG2	2.57	0.40
1:3K:19:LYS:NZ	1:3K:227:HIS:HD2	2.19	0.40
2:3N:356:ASN:OD1	2:3N:357:TYR:N	2.54	0.40
1:3O:391:ARG:HD3	2:3P:346:TRP:CZ2	2.56	0.40
1:3Q:5:VAL:HB	1:3Q:133:PHE:CD1	2.55	0.40
1:3S:190:HIS:CD2	1:3S:414:ASN:HB2	2.56	0.40
2:3T:339:ARG:HG3	2:3T:339:ARG:O	2.21	0.40
4:4C:2:PHE:HZ	23:6R:3:LEU:HD12	1.84	0.40
4:4C:14:LEU:HB2	4:4C:25:TRP:NE1	2.36	0.40
3:4F:9:LEU:HD23	3:4F:9:LEU:HA	1.89	0.40
4:4G:69:LEU:HD21	4:4G:153:ARG:HA	2.02	0.40
3:4H:111:LYS:HE2	3:4H:111:LYS:HB2	1.81	0.40
5:4L:464:GLN:O	5:4L:468:SER:CB	2.69	0.40
6:4P:118:SER:O	6:4P:121:GLU:HG2	2.22	0.40
7:4U:122:ARG:H	7:4U:122:ARG:HG2	1.77	0.40
9:4Z:72:GLU:O	9:4Z:75:ILE:HG22	2.20	0.40
9:4Z:143:LEU:O	9:4Z:147:GLU:HG2	2.21	0.40
9:4Z:183:ARG:HA	9:4Z:186:ASP:OD1	2.21	0.40
9:4Z:345:GLU:HA	9:4Z:348:GLU:CD	2.41	0.40
9:4Z:377:VAL:O	9:4Z:381:LEU:HD23	2.21	0.40
10:5C:453:LEU:HD23	10:5C:453:LEU:HA	1.87	0.40
11:5E:175:ASP:OD1	11:5E:176:VAL:N	2.54	0.40
12:5F:216:ALA:HB1	12:5F:217:PRO:HD2	2.03	0.40
14:5L:454:ILE:O	14:5L:454:ILE:HG13	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:5M:57:ASP:HB3	14:5M:76:ILE:O	2.20	0.40
14:5M:454:ILE:O	14:5M:454:ILE:HG13	2.20	0.40
14:5M:562:ASP:OD1	14:5M:607:LYS:HG3	2.21	0.40
14:5M:604:THR:CG2	14:5M:609:ARG:H	2.34	0.40
14:5N:366:LEU:HD13	14:5N:366:LEU:HA	1.82	0.40
14:5N:580:TRP:HA	14:5N:586:HIS:O	2.21	0.40
14:5N:616:GLU:O	14:5N:618:GLY:N	2.54	0.40
15:5O:249:ASP:OD2	15:5O:251:ALA:N	2.46	0.40
15:5P:145:PHE:CE1	15:5P:149:LEU:HD21	2.56	0.40
17:5S:18:GLN:H	17:5S:18:GLN:HG3	1.68	0.40
17:5T:18:GLN:H	17:5T:18:GLN:HG3	1.68	0.40
18:5X:103:PRO:HD3	24:6U:178:ASN:HB3	2.03	0.40
18:5X:192:SER:O	18:5X:196:VAL:HG23	2.21	0.40
18:5Z:192:SER:O	18:5Z:196:VAL:HG23	2.21	0.40
18:6A:65:VAL:O	18:6A:69:THR:HG22	2.21	0.40
18:6A:192:SER:O	18:6A:196:VAL:HG23	2.21	0.40
18:6B:65:VAL:O	18:6B:69:THR:HG22	2.21	0.40
18:6C:65:VAL:O	18:6C:69:THR:HG22	2.21	0.40
18:6C:128:GLN:CD	18:6C:128:GLN:H	2.17	0.40
22:6I:130:LEU:HD12	22:6I:130:LEU:HA	1.89	0.40
22:6K:186:ARG:O	22:6K:189:LYS:HB2	2.21	0.40
22:6L:294:LEU:HD23	22:6L:294:LEU:HA	1.91	0.40
22:6N:224:MET:N	22:6N:224:MET:SD	2.94	0.40
22:6P:62:SER:O	22:6P:62:SER:OG	2.35	0.40
22:6P:145:SER:HB2	22:6P:148:ASN:OD1	2.21	0.40
22:6P:240:TYR:O	22:6P:244:VAL:HG22	2.21	0.40
24:6T:92:ASP:OD2	24:6T:93:ARG:N	2.54	0.40
24:6T:255:HIS:HA	24:6T:258:ASP:OD1	2.21	0.40
24:6T:293:VAL:CG2	24:6T:306:LEU:HB2	2.51	0.40
24:6T:429:LYS:HG3	24:6T:430:PRO:O	2.21	0.40
24:6T:506:PRO:HB3	24:6T:524:GLU:OE1	2.21	0.40
24:6U:119:VAL:CG2	24:6U:132:VAL:HG13	2.51	0.40
24:6X:288:ASP:OD1	24:6X:288:ASP:N	2.54	0.40
24:6X:438:LEU:CD2	24:6X:476:MET:HG2	2.51	0.40
24:6X:450:VAL:HG23	24:6X:531:GLU:O	2.21	0.40
24:6X:518:TYR:CE1	24:6X:521:ALA:HB2	2.56	0.40
25:7C:10:GLU:HB3	25:7C:14:ARG:NH2	2.36	0.40
28:7H:301:GLU:H	28:7H:301:GLU:HG3	1.73	0.40
29:7J:330:GLU:O	29:7J:330:GLU:HG3	2.21	0.40
28:7X:398:ASP:OD1	28:7X:400:THR:N	2.54	0.40
38:8A:62:THR:OG1	38:8A:63:VAL:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:8B:228:THR:HG23	38:8B:228:THR:O	2.21	0.40
1:9:420:SER:OG	3:4D:209:ARG:NH1	2.53	0.40
2:B4:278:ALA:HB3	18:6A:43:ASN:ND2	2.32	0.40
2:B9:278:ALA:H	18:6C:43:ASN:HD22	1.69	0.40
2:E1:11:GLN:HB3	41:E1:501:GTP:O2A	2.22	0.40
1:E4:276:ARG:CZ	24:6V:314:GLY:H	2.34	0.40
2:E7:56:THR:HA	2:G3:285:GLN:HB2	2.02	0.40
1:G0:388:MET:CE	2:G1:348:PRO:HD3	2.51	0.40
1:G4:27:GLU:OE1	1:G4:241:ARG:NH1	2.48	0.40
1:G4:166:THR:OG1	1:G4:199:CYS:SG	2.71	0.40
2:G5:182:VAL:HG23	2:G5:186:ASN:ND2	2.37	0.40
2:G5:305:CYS:HB3	2:G5:387:ILE:HD11	2.03	0.40
1:G6:212:PHE:O	1:G6:216:LYS:HA	2.21	0.40
1:G6:317:PHE:CE2	1:G6:326:VAL:HG13	2.56	0.40
1:G8:135:VAL:HG21	1:G8:152:ILE:HD11	2.04	0.40
1:G8:173:PRO:CG	1:G8:380:ARG:HE	2.34	0.40
2:H1:52:PHE:O	2:H1:64:ARG:HG3	2.21	0.40
2:H1:167:LEU:HD13	2:H1:169:PHE:CZ	2.56	0.40
1:H2:6:HIS:CE1	1:H2:8:GLN:HG2	2.56	0.40
1:H2:297:LYS:HA	1:H2:297:LYS:HD3	1.87	0.40
1:H2:304:ASP:HB3	1:H2:307:HIS:CG	2.56	0.40
2:H5:2:ARG:HA	2:H5:133:GLN:HE21	1.86	0.40
2:H5:72:PRO:HD2	1:H6:2:ARG:HH12	1.86	0.40
2:H7:220:GLU:H	2:H7:220:GLU:HG2	1.79	0.40
2:H9:69:ASP:OD1	2:H9:71:GLU:N	2.55	0.40
1:I2:155:ILE:HG22	1:I2:164:MET:HE1	2.03	0.40
2:I3:76:ASP:O	2:I3:80:THR:HG22	2.20	0.40
2:I3:431:ASP:O	2:I3:435:VAL:HG22	2.21	0.40
1:I4:2:ARG:HB3	1:I4:131:GLN:HB2	2.03	0.40
2:I5:52:PHE:O	2:I5:64:ARG:N	2.51	0.40
2:I7:65:CYS:SG	2:I7:66:ILE:N	2.94	0.40
1:I8:268:VAL:HG13	1:I8:300:MET:HB2	2.03	0.40
1:J0:180:VAL:HG23	1:J0:184:ASN:HD21	1.86	0.40
2:J1:406:HIS:HA	2:J1:409:VAL:HG22	2.02	0.40
1:J4:219:THR:O	1:J4:219:THR:OG1	2.33	0.40
2:J5:172:TYR:CZ	2:J5:203:MET:SD	3.15	0.40
2:J5:313:MET:HE1	2:J5:435:VAL:HG11	2.02	0.40
1:J6:334:GLN:NE2	1:J6:348:ASN:H	2.15	0.40
2:J9:327:ASP:N	2:J9:327:ASP:OD1	2.51	0.40
2:J9:384:ILE:HA	2:J9:387:ILE:HD12	2.03	0.40
2:J9:425:LEU:HA	2:J9:425:LEU:HD23	1.82	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K0:101:TRP:HE3	1:K0:403:MET:HE1	1.85	0.40
2:K1:227:LEU:O	2:K1:230:LEU:HG	2.21	0.40
2:K3:217:LEU:CD1	2:K3:275:ILE:HG22	2.50	0.40
1:K4:152:ILE:HD12	1:K4:164:MET:SD	2.62	0.40
1:K4:306:ARG:NH2	28:7H:451:LYS:NZ	2.68	0.40
2:K5:195:LEU:HD23	2:K5:195:LEU:HA	1.90	0.40
1:K6:5:VAL:CG2	1:K6:133:PHE:HD1	2.32	0.40
1:K6:50:TYR:CE2	1:K6:241:ARG:HD3	2.56	0.40
1:K6:212:PHE:HZ	2:K7:326:LYS:HG3	1.86	0.40
2:K7:8:HIS:CD2	2:K7:138:PHE:HD2	2.39	0.40
1:K8:25:SER:HB3	1:K8:30:ILE:HG23	2.03	0.40
2:K9:387:ILE:HG12	2:K9:390:ARG:HH22	1.86	0.40
1:L0:350:LYS:HZ1	1:L0:352:SER:HB2	1.86	0.40
2:L1:111:GLY:O	2:L1:115:VAL:HG12	2.21	0.40
1:L2:67:ASP:CG	1:L2:68:LEU:H	2.24	0.40
1:L2:215:LEU:HB3	1:L2:217:LEU:HG	2.03	0.40
1:L2:304:ASP:OD2	1:L2:306:ARG:NH1	2.55	0.40
2:L3:306:ASP:HB3	2:L3:309:HIS:CD2	2.57	0.40
1:L4:14:ASN:HD22	1:L4:65:LEU:HD22	1.86	0.40
1:L6:178:THR:OG1	1:L6:179:VAL:N	2.54	0.40
1:L6:337:ASN:OD1	28:7X:455:MET:HB3	2.20	0.40
2:L7:103:PHE:CD1	2:L7:189:LEU:HB3	2.56	0.40
2:L9:175:PRO:HB3	2:L9:390:ARG:HD2	2.03	0.40
1:M0:228:LEU:HD23	1:M0:228:LEU:HA	1.92	0.40
1:M2:6:HIS:CE1	1:M2:136:CYS:HG	2.38	0.40
1:M4:154:LYS:HA	1:M4:154:LYS:HD3	1.91	0.40
1:M6:190:HIS:HD2	1:M6:411:ALA:HA	1.87	0.40
1:M8:7:ILE:HB	1:M8:135:VAL:HG22	2.02	0.40
2:M9:417:GLU:HA	2:M9:420:GLU:HG2	2.03	0.40
1:N0:2:ARG:HB3	1:N0:131:GLN:HB2	2.03	0.40
2:N1:14:ILE:HD11	2:N1:74:VAL:HG22	2.04	0.40
2:N3:111:GLY:HA2	2:N3:149:LEU:HD13	2.03	0.40
2:N3:313:MET:HE3	2:N3:382:THR:HG23	2.02	0.40
1:N8:108:GLU:HA	1:N8:111:GLU:OE1	2.20	0.40
2:O1:367:ASP:OD1	2:O1:367:ASP:N	2.47	0.40
2:O3:101:ASN:HD22	2:O3:143:GLY:HA2	1.86	0.40
2:O3:313:MET:HG2	2:O3:346:TRP:HZ3	1.73	0.40
1:O4:113:ILE:HA	1:O4:116:VAL:HG22	2.03	0.40
1:O4:361:LEU:HD23	1:O4:361:LEU:HA	1.73	0.40
2:O5:75:VAL:HG12	2:O5:79:ARG:HE	1.85	0.40
2:O7:62:VAL:HA	2:O7:63:PRO:HD3	1.94	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O9:116:ASP:OD1	2:O9:117:LEU:N	2.54	0.40
2:P3:195:LEU:HD23	2:P3:195:LEU:HA	1.87	0.40
1:P6:211:CYS:HA	1:P6:215:LEU:HB2	2.03	0.40
2:P7:103:PHE:HD1	2:P7:147:SER:OG	2.04	0.40
1:P8:167:PHE:HE1	1:P8:200:MET:SD	2.44	0.40
1:P8:239:CYS:SG	1:P8:247:ASN:HA	2.61	0.40
2:P9:113:GLU:OE1	2:P9:113:GLU:N	2.55	0.40
2:Q1:139:ASN:OD1	2:Q1:170:THR:HG22	2.20	0.40
1:Q8:135:VAL:O	1:Q8:166:THR:HA	2.21	0.40
1:Q8:172:SER:HB3	1:Q8:175:VAL:CG2	2.51	0.40
2:Q9:35:GLN:N	2:Q9:35:GLN:OE1	2.54	0.40
1:R2:379:LYS:O	1:R2:383:GLU:HG2	2.21	0.40
1:R4:69:GLU:CD	1:R4:71:GLY:H	2.25	0.40
2:R9:100:ALA:HA	1:S0:252:LYS:HE2	2.02	0.40
1:S2:383:GLU:OE2	1:S2:384:GLN:HG3	2.22	0.40
2:S5:11:GLN:OE1	2:S5:15:GLN:NE2	2.54	0.40
2:S5:70:LEU:HB2	2:S5:98:ASP:HA	2.03	0.40
1:T0:320:ARG:NH1	12:5F:210:THR:HA	2.36	0.40
2:T1:156:ARG:HA	2:T1:159:VAL:HG22	2.03	0.40
2:T1:319:TYR:CZ	2:T1:328:VAL:HG23	2.56	0.40
1:T2:8:GLN:NE2	1:T2:17:GLY:HA3	2.36	0.40
1:T2:322:SER:OG	1:T2:325:GLU:HG3	2.21	0.40
2:T3:2:ARG:HD3	2:T3:242:LEU:HD22	2.03	0.40
1:T4:95:THR:HG23	1:T4:96:GLY:N	2.35	0.40
1:T8:117:LEU:HA	1:T8:120:VAL:HG12	2.03	0.40
1:U2:28:HIS:NE2	1:U2:241:ARG:HD2	2.36	0.40
1:U2:77:ARG:O	1:U2:83:GLN:NE2	2.54	0.40
1:U4:242:PHE:CD1	1:U4:356:ILE:HG13	2.56	0.40
2:U5:183:GLU:HG3	2:U5:184:PRO:HD3	2.03	0.40
2:U7:287:SER:N	2:U7:290:GLU:OE2	2.52	0.40
2:U9:428:LEU:HG	2:U9:432:PHE:HE2	1.85	0.40
1:V2:128:ASP:OD1	1:V2:129:CYS:N	2.52	0.40
2:V3:9:ILE:HD11	2:V3:153:LEU:HD23	2.04	0.40
1:V6:304:ASP:HB3	1:V6:307:HIS:CG	2.56	0.40
2:V7:31:GLN:HB2	2:V7:33:ASP:OD1	2.21	0.40
1:V8:101:TRP:HE3	1:V8:403:MET:HE1	1.87	0.40
1:W0:186:THR:HG22	1:W0:411:ALA:HB1	2.03	0.40
2:W1:34:GLY:O	2:W1:60:LYS:HA	2.21	0.40
2:W3:76:ASP:HA	2:W3:79:ARG:HB2	2.03	0.40
1:W4:228:LEU:HD23	1:W4:228:LEU:HA	1.90	0.40
2:W5:4:VAL:HG23	2:W5:134:GLY:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W8:97:ALA:HA	1:W8:103:LYS:HE3	2.03	0.40
1:X0:175:VAL:HG23	1:X0:175:VAL:O	2.21	0.40
1:X2:61:PRO:HG2	1:X2:85:PHE:CE1	2.56	0.40
1:X2:100:ASN:HB3	1:X2:103:LYS:HB2	2.02	0.40
2:X3:195:LEU:HD12	2:X3:196:GLU:HB3	2.03	0.40
1:X4:50:TYR:CE2	1:X4:241:ARG:HD3	2.55	0.40
2:X5:116:ASP:O	2:X5:119:LEU:HG	2.22	0.40
2:X5:216:SER:OG	2:X5:217:LEU:N	2.55	0.40
1:X6:114:ASP:N	1:X6:114:ASP:OD1	2.53	0.40
2:X7:119:LEU:HA	2:X7:122:ILE:HG22	2.03	0.40
2:X7:246:GLY:HA2	2:X7:357:TYR:CD2	2.56	0.40
1:X8:8:GLN:CD	1:X8:17:GLY:HA3	2.42	0.40
1:Y0:95:THR:OG1	1:Y0:96:GLY:N	2.54	0.40
1:Y0:156:ARG:HA	1:Y0:156:ARG:HD2	1.93	0.40
1:Y0:257:LEU:HD23	1:Y0:312:THR:HG23	2.03	0.40
1:Y0:266:PHE:CE1	1:Y0:370:ASN:HB2	2.56	0.40
2:Y3:17:GLY:HA2	2:Y3:20:CYS:HB3	2.03	0.40
2:Y3:312:TYR:HB2	2:Y3:343:PHE:CD1	2.55	0.40
2:Y5:3:GLU:O	2:Y5:133:GLN:N	2.39	0.40
2:Y5:406:HIS:HA	2:Y5:409:VAL:CG1	2.49	0.40
1:Y8:100:ASN:HB3	1:Y8:103:LYS:HB2	2.03	0.40
1:Z2:174:LYS:HE2	1:Z2:174:LYS:HB3	1.81	0.40
1:Z2:396:HIS:HE1	1:Z2:397:TRP:CZ2	2.40	0.40
2:Z3:181:VAL:HG22	1:Z4:256:ASN:ND2	2.29	0.40
1:Z6:65:LEU:HD21	1:Z6:76:VAL:HG11	2.03	0.40
2:Z9:359:PRO:HA	2:Z9:360:PRO:HD3	1.93	0.40
1:0A:177:ASP:O	2:0B:352:LYS:HA	2.20	0.40
1:0A:183:TYR:O	1:0A:187:LEU:HD13	2.21	0.40
2:0H:30:ILE:HG12	2:0H:36:MET:HG2	2.03	0.40
2:0H:175:PRO:HB3	2:0H:390:ARG:HE	1.84	0.40
2:0H:203:MET:HE1	2:0H:384:ILE:HD13	2.02	0.40
2:0J:117:LEU:HD13	2:0J:117:LEU:HA	1.97	0.40
2:0J:181:VAL:CG2	1:0K:256:ASN:HD22	2.34	0.40
1:0K:209:ASP:OD1	1:0K:210:ILE:N	2.54	0.40
2:0L:111:GLY:HA2	2:0L:114:ILE:HG22	2.04	0.40
2:0L:320:ARG:O	2:0L:373:ARG:HA	2.21	0.40
1:0M:16:ILE:HG21	1:0M:136:CYS:SG	2.61	0.40
2:0N:65:CYS:SG	2:0N:87:PHE:HE1	2.45	0.40
2:0R:188:VAL:HG21	2:0R:395:PHE:CE1	2.57	0.40
1:0S:217:LEU:HD23	1:0S:217:LEU:HA	1.86	0.40
1:0S:285:THR:OG1	1:0S:287:PRO:HD2	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0W:256:ASN:HD22	1:0W:350:LYS:HG2	1.85	0.40
1:0W:421:GLU:HA	1:0W:424:GLN:HB3	2.03	0.40
2:0X:302:MET:N	2:0X:302:MET:SD	2.94	0.40
1:0Y:185:ALA:O	1:0Y:189:VAL:HG23	2.21	0.40
1:0Y:361:LEU:HD23	1:0Y:362:LYS:H	1.86	0.40
1:1A:190:HIS:O	1:1A:193:VAL:HG22	2.21	0.40
1:1A:401:GLU:N	1:1A:401:GLU:OE1	2.54	0.40
1:1A:418:LEU:O	1:1A:422:TYR:HD2	2.04	0.40
1:1C:165:LEU:HD23	1:1C:165:LEU:HA	1.92	0.40
2:1D:346:TRP:CE3	2:1D:347:CYS:HB2	2.57	0.40
1:1E:258:ILE:HD11	1:1E:266:PHE:CZ	2.56	0.40
2:1F:36:MET:HA	2:1F:37:PRO:HD3	1.89	0.40
2:1F:76:ASP:O	2:1F:80:THR:HG22	2.20	0.40
2:1F:93:ILE:HD13	2:1F:93:ILE:HA	1.88	0.40
2:1F:246:GLY:HA2	2:1F:357:TYR:CD2	2.56	0.40
2:1H:21:TRP:CZ2	2:1H:65:CYS:HB2	2.56	0.40
2:1H:125:LEU:HD23	2:1H:125:LEU:HA	1.95	0.40
1:1K:60:VAL:HG23	1:1K:84:ILE:O	2.21	0.40
2:1N:313:MET:HE2	2:1N:313:MET:HB3	1.72	0.40
1:1O:58:ARG:HD2	1:1O:58:ARG:HA	1.89	0.40
1:1O:271:THR:OG1	1:1O:365:ALA:HB3	2.20	0.40
2:1P:133:GLN:HB3	2:1P:252:ILE:HG21	2.02	0.40
2:1R:278:ALA:CB	9:4Z:229:LEU:HD21	2.51	0.40
1:1S:415:MET:O	1:1S:419:VAL:HG23	2.21	0.40
2:1V:384:ILE:HG13	2:1V:385:GLY:N	2.35	0.40
1:1W:2:ARG:HB3	1:1W:131:GLN:HB2	2.03	0.40
1:1W:154:LYS:HA	1:1W:154:LYS:HD3	1.85	0.40
2:1X:182:VAL:HG11	2:1X:404:PHE:CD1	2.56	0.40
2:1X:318:MET:O	2:1X:375:VAL:HA	2.21	0.40
1:2A:46:ARG:HD3	1:2A:46:ARG:HA	1.87	0.40
1:2A:283:ALA:O	1:2A:284:LEU:HD23	2.20	0.40
1:2C:183:TYR:O	1:2C:187:LEU:HD13	2.21	0.40
1:2C:272:PRO:HB3	1:2C:282:ARG:HH22	1.86	0.40
1:2C:385:PHE:HZ	1:2C:408:PHE:HD1	1.69	0.40
1:2E:95:THR:HB	38:8B:83:ARG:HH11	1.82	0.40
1:2E:356:ILE:HD13	1:2E:356:ILE:HA	1.93	0.40
2:2F:402:ARG:HA	2:2F:402:ARG:HD3	1.82	0.40
1:2G:5:VAL:CG2	1:2G:133:PHE:HD1	2.33	0.40
1:2K:48:ASN:OD1	1:2K:48:ASN:N	2.53	0.40
1:2M:286:VAL:CG2	1:2M:287:PRO:HD3	2.48	0.40
2:2N:271:SER:HB3	2:2N:301:MET:HG2	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2P:181:VAL:HG22	1:2Q:256:ASN:HD22	1.86	0.40
1:2Q:211:CYS:SG	1:2Q:217:LEU:HB2	2.60	0.40
1:2Q:354:CYS:SG	1:2Q:355:ASP:N	2.94	0.40
1:2S:198:GLU:HA	1:2S:264:HIS:HB2	2.04	0.40
1:2S:257:LEU:HA	1:2S:312:THR:HG21	2.02	0.40
2:2V:70:LEU:HD23	2:2V:70:LEU:HA	1.83	0.40
2:2X:32:PRO:O	2:2X:86:LEU:HB2	2.21	0.40
2:2X:90:GLU:HG3	2:2X:121:ARG:CZ	2.51	0.40
1:3C:203:ASP:O	1:3C:207:LEU:HG	2.20	0.40
2:3F:290:GLU:HG2	2:3F:291:ILE:N	2.36	0.40
2:3H:290:GLU:HG2	2:3H:291:ILE:N	2.36	0.40
2:3J:254:GLU:HB3	2:3J:352:LYS:HE2	2.03	0.40
1:3K:249:ASP:O	1:3K:253:LEU:HG	2.21	0.40
1:3K:396:HIS:HE1	1:3K:397:TRP:CZ2	2.38	0.40
1:3M:192:LEU:HD23	1:3M:192:LEU:HA	1.81	0.40
1:3M:211:CYS:HA	1:3M:215:LEU:HB2	2.03	0.40
1:3M:324:LYS:HA	1:3M:327:ASP:OD2	2.20	0.40
1:3O:174:LYS:HB3	1:3O:174:LYS:HE2	1.75	0.40
2:3P:79:ARG:NH1	2:3P:92:LEU:O	2.54	0.40
1:3Q:77:ARG:NH1	3:4H:18:LYS:HB3	2.32	0.40
1:3Q:88:ASP:OD2	3:4H:262:TYR:HB3	2.21	0.40
1:3S:65:LEU:HD12	1:3S:90:PHE:CD1	2.57	0.40
4:3Y:57:THR:OG1	4:3Y:158:ALA:HB2	2.21	0.40
3:3Z:9:LEU:HD23	3:3Z:9:LEU:HA	1.88	0.40
4:4G:69:LEU:HD23	4:4G:69:LEU:H	1.87	0.40
6:4O:304:GLU:OE2	6:4O:305:ILE:HG13	2.21	0.40
6:4O:368:GLN:O	6:4O:371:LEU:HG	2.22	0.40
9:4Y:429:ILE:HD11	9:4Y:442:MET:HB2	2.03	0.40
9:4Z:352:TYR:HB3	9:4Z:356:TRP:CZ3	2.56	0.40
10:5B:285:MET:O	10:5B:289:GLU:HG2	2.21	0.40
10:5C:133:ARG:HD3	10:5C:133:ARG:HA	1.68	0.40
10:5C:230:ARG:O	10:5C:233:GLU:HG3	2.20	0.40
12:5F:38:PRO:HG2	12:5G:380:TRP:NE1	2.37	0.40
14:5L:57:ASP:HB3	14:5L:76:ILE:O	2.20	0.40
14:5L:604:THR:CG2	14:5L:609:ARG:H	2.34	0.40
14:5L:616:GLU:O	14:5L:618:GLY:N	2.54	0.40
14:5M:230:ASN:OD1	14:5M:230:ASN:N	2.54	0.40
14:5N:57:ASP:HB3	14:5N:76:ILE:O	2.20	0.40
15:5O:12:GLU:OE1	15:5O:74:LYS:CG	2.70	0.40
15:5O:313:ASP:OD1	15:5O:313:ASP:N	2.46	0.40
17:5R:66:LYS:HB3	17:5R:66:LYS:HE2	1.98	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:5S:141:LYS:HE3	17:5S:141:LYS:HB3	1.92	0.40
17:5S:196:TYR:HA	17:5S:199:LEU:HD12	2.03	0.40
18:5X:36:ASN:OD1	18:5X:84:ARG:NH2	2.46	0.40
18:5Y:128:GLN:CD	18:5Y:128:GLN:H	2.17	0.40
18:5Z:65:VAL:O	18:5Z:69:THR:HG22	2.21	0.40
18:6A:7:LEU:CD1	18:6A:69:THR:HG21	2.51	0.40
18:6A:128:GLN:CD	18:6A:128:GLN:H	2.17	0.40
19:6E:117:LEU:O	19:6E:121:LEU:HG	2.21	0.40
21:6G:188:THR:O	21:6G:189:MET:HG2	2.21	0.40
22:6I:187:MET:HE1	22:6I:255:PHE:HB2	2.03	0.40
22:6I:203:HIS:CD2	22:6I:204:PHE:H	2.39	0.40
22:6I:314:CYS:SG	22:6I:321:LEU:HB2	2.60	0.40
22:6M:279:LEU:HD23	22:6M:329:LEU:HD21	2.02	0.40
22:6P:206:ASP:HA	22:6P:209:ASN:HD21	1.85	0.40
22:6P:280:LYS:HA	22:6P:283:ILE:HG12	2.03	0.40
24:6T:480:ASN:ND2	24:6T:503:ILE:HD12	2.36	0.40
24:6U:24:ASP:N	24:6U:24:ASP:OD1	2.54	0.40
24:6U:135:PRO:HG2	24:6U:137:GLN:HE22	1.86	0.40
24:6U:156:ASP:OD2	24:6U:157:ASP:N	2.53	0.40
24:6U:288:ASP:OD1	24:6U:288:ASP:N	2.55	0.40
24:6V:469:PHE:HB3	24:6V:484:GLU:HB3	2.04	0.40
24:6W:106:VAL:HG22	24:6W:107:VAL:H	1.87	0.40
24:6W:496:LYS:HB3	24:6W:496:LYS:HE2	1.80	0.40
24:6X:329:LYS:HD3	24:6X:348:TYR:HA	2.03	0.40
24:6Y:615:ARG:HG2	24:6Y:616:LEU:HD23	2.03	0.40
24:7A:25:LYS:O	24:7A:25:LYS:HD3	2.22	0.40
24:7A:96:LEU:O	24:7A:122:TYR:HA	2.20	0.40
12:7B:53:HIS:CG	12:7B:58:ARG:HH21	2.39	0.40
27:7G:69:LYS:O	27:7G:73:GLU:HG3	2.21	0.40
29:7J:167:ILE:O	29:7J:167:ILE:HG23	2.21	0.40
34:7R:218:MET:N	34:7R:218:MET:SD	2.94	0.40
34:7R:228:LYS:HB2	34:7R:228:LYS:HE2	1.82	0.40
37:7Y:38:ALA:O	37:7Y:42:THR:HG23	2.21	0.40
37:7Y:142:ARG:O	37:7Y:143:TYR:HB2	2.20	0.40
38:7Z:36:GLU:HG3	38:7Z:38:GLU:O	2.22	0.40
38:8C:234:GLU:CD	38:8C:234:GLU:H	2.25	0.40
1:A3:215:LEU:HD11	26:7F:136:PHE:CD2	2.50	0.40
1:E2:48:ASN:HB2	22:6J:181:ASN:HB2	2.04	0.40
2:G3:73:THR:HA	1:G4:46:ARG:HH21	1.85	0.40
2:G3:157:LEU:HA	2:G3:157:LEU:HD23	1.83	0.40
2:G3:205:ASP:OD2	2:G3:206:ASN:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G3:329:ASN:O	2:G3:332:VAL:HG12	2.22	0.40
1:G4:8:GLN:CD	1:G4:17:GLY:HA3	2.42	0.40
1:G4:173:PRO:HA	1:G4:176:SER:HB3	2.03	0.40
1:G8:113:ILE:HA	1:G8:116:VAL:HG22	2.02	0.40
2:G9:21:TRP:CD1	2:G9:87:PHE:HZ	2.40	0.40
2:H1:69:ASP:OD2	2:H1:71:GLU:N	2.51	0.40
2:H3:11:GLN:NE2	1:H4:247:ASN:OD1	2.54	0.40
2:H3:276:ILE:HG22	2:H3:281:ALA:HB2	2.03	0.40
1:H4:325:GLU:O	1:H4:329:GLN:HB2	2.22	0.40
2:H7:125:LEU:HD23	2:H7:125:LEU:HA	1.87	0.40
2:H9:177:VAL:HG13	1:I0:327:ASP:HB3	2.04	0.40
2:H9:203:MET:C	2:H9:204:LEU:HD12	2.41	0.40
2:H9:209:ILE:HG21	2:H9:227:LEU:HG	2.03	0.40
1:I0:107:THR:OG1	1:I0:401:GLU:OE2	2.18	0.40
2:I1:318:MET:O	2:I1:375:VAL:HA	2.21	0.40
1:I2:131:GLN:HE21	1:I2:250:LEU:HB3	1.87	0.40
2:I3:139:ASN:O	2:I3:170:THR:HA	2.21	0.40
2:I3:251:ASP:OD1	2:I3:252:ILE:N	2.54	0.40
2:I5:287:SER:N	2:I5:290:GLU:OE2	2.25	0.40
1:I8:48:ASN:N	1:I8:48:ASN:OD1	2.55	0.40
1:I8:334:GLN:HA	1:I8:341:PHE:CE2	2.56	0.40
1:I8:397:TRP:CD2	2:I9:256:GLN:NE2	2.90	0.40
1:J0:170:VAL:HG21	1:J0:377:MET:SD	2.61	0.40
1:J0:221:THR:HG21	5:4L:357:ARG:NH2	2.36	0.40
1:J0:286:VAL:HG22	1:J0:321:MET:HE3	2.02	0.40
1:J2:113:ILE:HA	1:J2:116:VAL:HG22	2.03	0.40
2:J5:8:HIS:NE2	2:J5:138:PHE:HD2	2.19	0.40
2:J5:384:ILE:HA	2:J5:387:ILE:HD12	2.02	0.40
2:J5:397:LEU:HA	2:J5:397:LEU:HD23	1.85	0.40
2:J5:425:LEU:HA	2:J5:425:LEU:HD23	1.83	0.40
1:J6:178:THR:OG1	1:J6:181:GLU:HG3	2.20	0.40
2:J9:90:GLU:HG3	2:J9:121:ARG:HH12	1.86	0.40
2:J9:297:GLU:OE1	2:J9:297:GLU:N	2.46	0.40
2:K1:76:ASP:HA	2:K1:79:ARG:HB2	2.04	0.40
2:K3:170:THR:OG1	2:K3:203:MET:SD	2.79	0.40
2:K3:178:SER:OG	1:K4:347:ASN:HB3	2.21	0.40
2:K7:60:LYS:HD3	2:M3:282:TYR:OH	2.21	0.40
1:L0:68:LEU:HD23	1:L0:68:LEU:HA	1.93	0.40
1:L2:6:HIS:CE1	1:L2:8:GLN:HG2	2.56	0.40
1:L2:189:VAL:HA	1:L2:192:LEU:HB2	2.03	0.40
1:L4:350:LYS:HZ3	1:L4:351:SER:C	2.23	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L6:31:ASP:OD1	1:L6:35:THR:N	2.38	0.40
2:M1:305:CYS:HB3	2:M1:387:ILE:HD11	2.03	0.40
2:M3:81:GLY:O	2:M3:84:ARG:HG3	2.20	0.40
2:M5:96:LYS:NZ	2:M5:96:LYS:HB2	2.36	0.40
1:M6:325:GLU:O	1:M6:329:GLN:HB2	2.22	0.40
2:M7:101:ASN:ND2	2:M7:143:GLY:HA2	2.36	0.40
2:M7:285:GLN:NE2	30:7K:84:VAL:CG1	2.79	0.40
1:M8:203:ASP:OD1	1:M8:301:CYS:HA	2.21	0.40
2:M9:6:SER:O	2:M9:65:CYS:HA	2.21	0.40
2:M9:8:HIS:CD2	2:M9:17:GLY:HA3	2.56	0.40
2:N1:51:THR:HG21	2:N1:243:ARG:HG2	2.03	0.40
2:N1:156:ARG:HA	2:N1:159:VAL:HG12	2.03	0.40
1:N6:45:GLU:H	1:N6:45:GLU:HG2	1.73	0.40
1:N6:250:LEU:H	1:N6:250:LEU:HD12	1.86	0.40
2:O1:258:ASN:C	2:O1:259:LEU:HD12	2.40	0.40
2:O1:371:VAL:HG22	2:O1:373:ARG:H	1.86	0.40
1:O2:20:PHE:HB2	1:O2:233:MET:HE3	2.03	0.40
1:O4:362:LYS:HB2	19:6E:76:ALA:O	2.21	0.40
2:O7:3:GLU:HG2	2:O7:64:ARG:NH1	2.36	0.40
2:P3:407:TRP:CD1	1:P4:255:VAL:HG23	2.56	0.40
1:P4:4:ILE:HB	1:P4:50:TYR:CE1	2.55	0.40
2:P5:165:SER:HA	2:P5:199:ASP:OD2	2.21	0.40
1:P6:272:PRO:O	1:P6:273:LEU:HD23	2.21	0.40
2:P9:279:GLU:N	2:P9:279:GLU:OE1	2.54	0.40
1:Q4:221:THR:OG1	1:Q4:222:PHE:N	2.55	0.40
1:R0:406:MET:O	1:R0:410:GLU:HG2	2.22	0.40
2:R1:9:ILE:HD13	2:R1:150:GLY:HA2	2.03	0.40
2:R1:66:ILE:HD12	2:R1:68:LEU:HD23	2.02	0.40
2:R1:249:ASN:O	7:4R:3:ARG:NH1	2.55	0.40
1:R4:117:LEU:HD11	1:R4:154:LYS:HB3	2.02	0.40
1:S2:387:ALA:HA	1:S2:390:ARG:HH21	1.87	0.40
1:S4:21:TRP:CZ3	1:S4:61:PRO:HB3	2.56	0.40
1:S6:45:GLU:H	1:S6:45:GLU:HG2	1.70	0.40
1:T0:263:LEU:HA	1:T0:422:TYR:OH	2.22	0.40
2:T1:114:ILE:HD12	2:T1:114:ILE:HA	1.89	0.40
1:T2:112:LEU:HD12	1:T2:112:LEU:HA	1.84	0.40
1:T4:215:LEU:HD23	1:T4:217:LEU:HD11	2.03	0.40
1:T4:273:LEU:H	1:T4:292:GLN:NE2	2.20	0.40
1:T6:67:ASP:N	1:T6:67:ASP:OD1	2.53	0.40
2:T7:401:LYS:HB3	2:T7:401:LYS:HE3	1.89	0.40
1:T8:49:VAL:HG11	1:T8:241:ARG:HG2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U1:96:LYS:HD2	1:U2:129:CYS:SG	2.61	0.40
1:U4:23:VAL:HG21	1:U4:230:SER:OG	2.21	0.40
2:U5:312:TYR:HB2	2:U5:343:PHE:CD1	2.56	0.40
1:U6:207:LEU:HD22	1:U6:228:LEU:HD23	2.03	0.40
1:U6:418:LEU:O	1:U6:421:GLU:HG2	2.21	0.40
1:U8:293:MET:HE2	1:U8:293:MET:HB3	1.90	0.40
2:U9:32:PRO:HB3	2:U9:83:TYR:CE1	2.56	0.40
2:U9:108:TYR:O	2:U9:112:LYS:HG2	2.22	0.40
2:V1:102:ASN:HB3	2:V1:105:ARG:HB3	2.04	0.40
1:V2:117:LEU:HA	1:V2:117:LEU:HD23	1.83	0.40
1:V2:211:CYS:HA	1:V2:215:LEU:HB2	2.03	0.40
1:V4:31:ASP:OD1	1:V4:35:THR:N	2.45	0.40
1:V6:91:VAL:HG21	1:V6:119:VAL:HG21	2.03	0.40
1:V6:151:LEU:O	1:V6:155:ILE:HG12	2.22	0.40
2:V7:51:THR:HG21	2:V7:243:ARG:HG2	2.02	0.40
2:V7:271:SER:OG	2:V7:377:MET:HB3	2.21	0.40
2:W1:14:ILE:HD11	2:W1:74:VAL:HG13	2.02	0.40
2:W3:139:ASN:O	2:W3:170:THR:HA	2.22	0.40
2:W3:222:PRO:CD	1:W4:324:LYS:HE3	2.51	0.40
2:W3:224:TYR:CE2	1:W4:323:THR:HG21	2.56	0.40
2:W3:248:LEU:HD22	2:W3:354:GLY:HA2	2.03	0.40
1:W6:203:ASP:OD2	1:W6:302:ALA:N	2.55	0.40
1:W6:405:GLU:HA	1:W6:408:PHE:HD2	1.85	0.40
2:W7:242:LEU:HD11	2:W7:252:ILE:HG12	2.02	0.40
1:X0:192:LEU:HD23	1:X0:192:LEU:HA	1.85	0.40
1:X2:125:GLU:OE2	1:X2:159:TYR:OH	2.28	0.40
1:X2:257:LEU:HG	1:X2:370:ASN:HB2	2.04	0.40
1:X4:135:VAL:HG11	1:X4:152:ILE:HD11	2.03	0.40
1:X4:155:ILE:HD12	1:X4:155:ILE:HA	1.84	0.40
1:X4:171:PRO:HG3	1:X4:181:GLU:HB3	2.02	0.40
2:X5:324:VAL:HG23	2:X5:327:ASP:OD2	2.21	0.40
1:X6:21:TRP:HA	1:X6:24:VAL:HG22	2.03	0.40
1:X6:396:HIS:HA	1:X6:399:THR:CG2	2.47	0.40
2:X7:5:ILE:HD11	2:X7:135:PHE:HE1	1.86	0.40
2:X7:417:GLU:HA	2:X7:420:GLU:CG	2.50	0.40
2:X9:319:TYR:HB3	2:X9:323:VAL:HG21	2.03	0.40
1:Y0:183:TYR:O	1:Y0:187:LEU:HD13	2.21	0.40
2:Y1:107:HIS:NE2	2:Y1:152:LEU:HD13	2.36	0.40
2:Y1:201:ALA:O	2:Y1:268:MET:HE2	2.22	0.40
2:Y1:315:CYS:HG	2:Y1:379:SER:HG	1.65	0.40
2:Y3:26:LEU:HD21	2:Y3:363:VAL:HG22	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Y3:72:PRO:HD2	1:Y4:2:ARG:HH12	1.87	0.40
2:Y3:189:LEU:HD11	2:Y3:418:PHE:HE1	1.86	0.40
1:Y4:152:ILE:HD12	1:Y4:164:MET:SD	2.61	0.40
1:Y4:322:SER:OG	1:Y4:322:SER:O	2.39	0.40
1:Y6:170:VAL:HG22	1:Y6:202:LEU:O	2.21	0.40
1:Y6:232:VAL:HG22	1:Y6:270:PHE:HB2	2.04	0.40
1:Y8:151:LEU:HD13	1:Y8:151:LEU:HA	1.92	0.40
1:Y8:311:LEU:HD22	1:Y8:370:ASN:ND2	2.37	0.40
2:Y9:290:GLU:HA	2:Y9:293:ASN:OD1	2.21	0.40
1:Z0:235:GLY:O	1:Z0:316:LEU:HD23	2.21	0.40
1:Z2:19:LYS:HG3	1:Z2:226:ASN:HB3	2.01	0.40
1:Z2:46:ARG:HD3	1:Z2:46:ARG:HA	1.76	0.40
1:Z2:128:ASP:N	1:Z2:128:ASP:OD1	2.52	0.40
1:Z4:263:LEU:HD11	1:Z4:425:TYR:CE2	2.56	0.40
2:Z5:121:ARG:NE	2:Z5:124:LYS:HE3	2.35	0.40
1:Z6:174:LYS:HB3	1:Z6:174:LYS:HE2	1.83	0.40
1:0A:2:ARG:NE	1:0A:240:LEU:HD22	2.34	0.40
1:0A:248:ALA:HA	1:0A:252:LYS:HD2	2.02	0.40
2:0B:248:LEU:HD23	2:0B:248:LEU:HA	1.83	0.40
2:0H:221:ARG:HB3	1:0I:322:SER:OG	2.21	0.40
1:0I:105:HIS:CD2	1:0I:150:LEU:HG	2.56	0.40
1:0I:161:ASP:HB3	1:0I:162:ARG:NH1	2.37	0.40
1:0I:414:ASN:HA	1:0I:417:ASP:OD2	2.21	0.40
2:0J:252:ILE:HD12	2:0J:252:ILE:HA	1.91	0.40
2:0J:257:THR:OG1	2:0J:258:ASN:N	2.55	0.40
1:0K:20:PHE:HA	1:0K:230:SER:OG	2.21	0.40
2:0L:9:ILE:HG13	2:0L:68:LEU:HD11	2.04	0.40
1:0M:14:ASN:HD22	1:0M:65:LEU:HD22	1.87	0.40
1:0M:170:VAL:HG22	1:0M:202:LEU:O	2.20	0.40
2:0N:320:ARG:O	2:0N:373:ARG:HA	2.21	0.40
1:0O:58:ARG:HD2	1:0O:58:ARG:HA	1.87	0.40
1:0Q:19:LYS:HG3	1:0Q:226:ASN:HB2	2.03	0.40
1:0Q:21:TRP:CH2	1:0Q:61:PRO:HB3	2.56	0.40
2:0R:72:PRO:HG3	1:0S:1:MET:HG2	2.04	0.40
2:0R:330:ALA:O	2:0R:334:THR:HG23	2.22	0.40
1:0S:199:CYS:SG	1:0S:265:PHE:HD1	2.44	0.40
2:0X:9:ILE:HG23	2:0X:68:LEU:HD11	2.03	0.40
2:0X:53:PHE:HA	2:0X:62:VAL:O	2.22	0.40
2:0Z:4:VAL:HG13	2:0Z:52:PHE:HE1	1.86	0.40
2:0Z:102:ASN:OD1	1:1A:255:VAL:HG21	2.21	0.40
1:1E:329:GLN:O	1:1E:333:VAL:HG22	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1F:195:LEU:HD23	2:1F:196:GLU:HB3	2.03	0.40
2:1H:4:VAL:HG23	2:1H:134:GLY:O	2.20	0.40
2:1H:362:VAL:HG12	2:1H:370:LYS:NZ	2.37	0.40
2:1L:331:SER:O	2:1L:335:ILE:HD12	2.21	0.40
1:1M:337:ASN:HB3	1:1M:340:TYR:HD2	1.85	0.40
2:1N:56:THR:HG23	2:1N:60:LYS:CB	2.51	0.40
2:1N:171:VAL:HA	2:1N:204:LEU:O	2.20	0.40
2:1N:251:ASP:OD1	2:1N:252:ILE:N	2.52	0.40
2:1N:313:MET:HB2	2:1N:380:ASN:HB3	2.04	0.40
2:1N:366:GLY:O	9:4Z:121:LYS:NZ	2.50	0.40
1:1O:213:ARG:HB3	1:1O:297:LYS:HZ2	1.85	0.40
2:1P:90:GLU:HB3	2:1P:121:ARG:HH22	1.86	0.40
2:1P:188:VAL:O	2:1P:191:THR:HG22	2.21	0.40
2:1P:405:VAL:O	2:1P:409:VAL:HG23	2.21	0.40
2:1R:119:LEU:O	2:1R:122:ILE:HG12	2.22	0.40
2:1T:430:LYS:O	2:1T:433:GLU:HG3	2.21	0.40
2:1V:322:ASP:HB3	2:1V:373:ARG:HH21	1.84	0.40
2:1X:138:PHE:CZ	2:1X:235:ILE:HG13	2.56	0.40
2:1Z:262:TYR:CD1	2:1Z:265:ILE:HG13	2.56	0.40
1:2A:55:THR:HG23	1:2Q:282:ARG:O	2.20	0.40
1:2A:174:LYS:HE2	1:2A:174:LYS:HB3	1.79	0.40
1:2C:165:LEU:HD23	1:2C:165:LEU:HA	1.86	0.40
1:2C:283:ALA:HB3	1:2C:288:GLU:OE2	2.21	0.40
1:2E:77:ARG:HE	1:2E:90:PHE:HE2	1.69	0.40
1:2E:152:ILE:HD13	1:2E:152:ILE:HA	1.91	0.40
2:2F:240:ALA:HB1	2:2F:356:ASN:HD22	1.85	0.40
2:2H:75:VAL:HG11	2:2H:94:SER:HB3	2.04	0.40
2:2H:261:PRO:HG3	2:2H:313:MET:HE2	2.04	0.40
2:2J:21:TRP:CZ2	2:2J:65:CYS:HB3	2.57	0.40
2:2L:113:GLU:HG3	38:8C:8:GLU:OE1	2.20	0.40
2:2L:201:ALA:H	2:2L:268:MET:HE1	1.85	0.40
2:2N:20:CYS:SG	2:2N:235:ILE:HD11	2.61	0.40
2:2R:273:ALA:HA	2:2R:274:PRO:HA	1.84	0.40
1:2U:304:ASP:OD1	38:8B:103:SER:HB2	2.21	0.40
2:2X:4:VAL:HG23	2:2X:134:GLY:O	2.22	0.40
2:2X:90:GLU:HB3	2:3N:283:HIS:CE1	2.55	0.40
1:2Y:138:SER:O	1:2Y:139:LEU:HD23	2.21	0.40
2:2Z:3:GLU:HB2	2:2Z:129:CYS:SG	2.61	0.40
2:2Z:399:TYR:OH	2:2Z:415:GLU:OE2	2.38	0.40
1:3A:7:ILE:HB	1:3A:135:VAL:HG12	2.03	0.40
1:3C:7:ILE:O	1:3C:135:VAL:HA	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3D:203:MET:HE1	2:3D:387:ILE:HG21	2.02	0.40
2:3F:246:GLY:H	2:3F:249:ASN:HD21	1.69	0.40
2:3H:204:LEU:HD23	2:3H:231:ILE:HD12	2.03	0.40
1:3I:273:LEU:H	1:3I:292:GLN:NE2	2.20	0.40
1:3K:179:VAL:HG13	2:3L:349:THR:O	2.21	0.40
1:3M:265:PHE:HD2	1:3M:422:TYR:OH	2.02	0.40
1:3O:198:GLU:HB3	1:3O:258:ILE:HD11	2.04	0.40
1:3O:404:ASP:HB3	1:3O:406:MET:SD	2.61	0.40
2:3P:278:ALA:HA	2:3P:369:ALA:HB2	2.04	0.40
2:3R:188:VAL:HA	2:3R:191:THR:HG22	2.04	0.40
2:3R:195:LEU:HA	2:3R:195:LEU:HD12	1.80	0.40
1:3S:262:ARG:NH2	1:3S:417:ASP:OD1	2.54	0.40
2:3T:311:LYS:NZ	2:3T:343:PHE:O	2.51	0.40
3:3X:218:LEU:HA	3:3X:218:LEU:HD23	1.84	0.40
4:3Y:14:LEU:HB2	4:3Y:25:TRP:NE1	2.36	0.40
4:3Y:69:LEU:HD23	4:3Y:69:LEU:H	1.87	0.40
4:3Y:86:TYR:HB3	4:3Y:108:TYR:CD2	2.56	0.40
4:4C:57:THR:OG1	4:4C:158:ALA:HB2	2.21	0.40
3:4D:111:LYS:HE2	3:4D:111:LYS:HB2	1.81	0.40
4:4I:23:GLU:HG3	4:4I:24:ILE:HG23	2.02	0.40
4:4I:69:LEU:HD23	4:4I:69:LEU:H	1.87	0.40
5:4L:326:GLU:HB2	5:4L:327:LYS:HZ3	1.85	0.40
6:4O:333:MET:O	6:4O:337:GLU:HG2	2.22	0.40
7:4R:112:MET:CG	7:4R:113:PRO:CD	2.89	0.40
8:4W:229:GLU:CG	8:4W:233:LYS:HE2	2.51	0.40
8:4W:249:ALA:HA	8:4W:252:LYS:CE	2.50	0.40
8:4W:446:SER:N	8:4W:449:GLU:OE1	2.48	0.40
8:4W:466:ARG:N	8:4W:466:ARG:CD	2.85	0.40
9:4Z:47:ARG:O	9:4Z:51:GLU:HG2	2.21	0.40
10:5C:172:GLN:HE21	10:5C:176:GLU:HG3	1.81	0.40
11:5E:176:VAL:HA	11:5E:181:TRP:CD1	2.57	0.40
11:5E:243:LYS:HD3	11:5E:243:LYS:HA	1.74	0.40
12:5F:334:LEU:HB2	12:7B:47:GLN:HG3	2.02	0.40
12:5G:254:GLN:NE2	12:5G:255:LEU:O	2.55	0.40
13:5J:91:LYS:HD3	17:5U:124:GLU:OE1	2.21	0.40
13:5K:76:THR:HA	13:5K:79:THR:HG22	2.04	0.40
14:5L:165:THR:HG21	14:5L:200:VAL:HG11	2.02	0.40
14:5L:246:CYS:SG	14:5L:247:GLU:N	2.94	0.40
14:5L:277:LYS:HE2	14:5L:277:LYS:HB2	1.90	0.40
14:5L:459:GLN:OE1	14:5L:459:GLN:N	2.54	0.40
14:5M:246:CYS:SG	14:5M:247:GLU:N	2.94	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:5M:366:LEU:HD13	14:5M:366:LEU:HA	1.82	0.40
14:5M:485:VAL:HA	14:5M:494:ILE:O	2.21	0.40
14:5M:616:GLU:O	14:5M:618:GLY:N	2.54	0.40
14:5N:165:THR:HG21	14:5N:200:VAL:HG11	2.02	0.40
14:5N:246:CYS:SG	14:5N:247:GLU:N	2.94	0.40
14:5N:454:ILE:O	14:5N:454:ILE:HG13	2.21	0.40
14:5N:485:VAL:HA	14:5N:494:ILE:O	2.21	0.40
14:5N:604:THR:CG2	14:5N:609:ARG:H	2.34	0.40
15:5O:123:LEU:O	15:5O:269:GLY:HA2	2.21	0.40
15:5O:172:TRP:NE1	15:5O:207:GLY:HA3	2.36	0.40
15:5O:261:GLU:O	15:5O:314:ARG:NH1	2.53	0.40
15:5P:241:LEU:HB2	15:5P:357:HIS:HB3	2.03	0.40
17:5T:141:LYS:HE3	17:5T:141:LYS:HB3	1.92	0.40
17:5U:18:GLN:H	17:5U:18:GLN:HG3	1.68	0.40
17:5U:141:LYS:HE3	17:5U:141:LYS:HB3	1.92	0.40
17:5U:196:TYR:HA	17:5U:199:LEU:HD12	2.03	0.40
18:5X:7:LEU:CD1	18:5X:69:THR:HG21	2.52	0.40
18:5Y:7:LEU:CD1	18:5Y:69:THR:HG21	2.51	0.40
18:5Z:7:LEU:CD1	18:5Z:69:THR:HG21	2.52	0.40
18:6B:7:LEU:CD1	18:6B:69:THR:HG21	2.51	0.40
18:6B:198:LEU:HD13	18:6B:198:LEU:HA	1.79	0.40
21:6G:159:ALA:O	21:6G:163:THR:HG23	2.21	0.40
21:6H:56:LYS:HZ2	21:6H:92:HIS:CE1	2.40	0.40
22:6M:177:LEU:HB3	22:6M:187:MET:HE1	2.02	0.40
22:6M:295:LYS:O	22:6M:295:LYS:HD2	2.22	0.40
22:6N:70:ASN:HB2	22:6N:73:ASN:HD21	1.85	0.40
22:6N:78:GLN:OE1	22:6N:79:PRO:HD2	2.21	0.40
22:6O:45:PRO:HB3	22:6O:51:ILE:CG2	2.51	0.40
23:6Q:2:ASP:O	23:6Q:6:GLN:HG3	2.21	0.40
23:6R:2:ASP:O	23:6R:6:GLN:HG3	2.21	0.40
24:6T:110:ASN:ND2	24:6T:213:TYR:OH	2.54	0.40
24:6U:243:LYS:HE3	24:6U:243:LYS:HB3	1.60	0.40
24:6U:554:ASP:OD2	24:6U:557:VAL:HG13	2.21	0.40
24:6W:125:LEU:HD23	24:6W:125:LEU:HA	1.95	0.40
24:6W:512:TYR:CE1	24:6W:523:ILE:HG23	2.57	0.40
24:6X:256:LEU:HD23	24:6X:256:LEU:HA	1.76	0.40
24:6X:378:TRP:O	24:6X:382:ASN:ND2	2.49	0.40
24:6X:524:GLU:OE2	24:6X:527:ASN:N	2.55	0.40
24:6Z:42:GLU:O	24:6Z:42:GLU:HG2	2.20	0.40
24:6Z:402:LYS:HD2	24:6Z:402:LYS:HA	1.82	0.40
29:7I:144:GLN:O	29:7I:148:VAL:HG23	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:7K:175:ASP:HB3	30:7K:178:THR:OG1	2.21	0.40
31:7M:39:LEU:HB3	31:7M:43:VAL:HB	2.02	0.40
34:7S:272:LYS:O	34:7S:275:GLU:HG2	2.21	0.40
36:7V:90:GLU:CD	36:7V:91:PRO:HD2	2.42	0.40
36:7W:90:GLU:CD	36:7W:91:PRO:HD2	2.42	0.40
38:8C:113:ARG:HD2	38:8C:113:ARG:HA	1.92	0.40
2:2:372:GLN:NE2	24:6T:88:TRP:CD1	2.90	0.40
1:A1:340:TYR:HD1	3:4F:104:PRO:HD3	1.84	0.40
1:D0:142:GLY:N	39:D0:501:GDP:O1B	2.53	0.40
1:D4:219:THR:HG22	24:6Y:254:SER:HB3	2.04	0.40
2:E5:31:GLN:OE1	22:6L:131:ARG:NH1	2.31	0.40
2:E5:282:TYR:HE1	22:6K:80:GLY:O	2.01	0.40
2:E9:56:THR:HG23	2:G5:285:GLN:HA	2.02	0.40
2:G1:259:LEU:HB3	2:G1:268:MET:HE3	2.03	0.40
2:G3:90:GLU:HB3	2:G3:121:ARG:NH1	2.26	0.40
2:G5:133:GLN:HB3	2:G5:252:ILE:HD11	2.03	0.40
2:G5:349:THR:O	2:G5:349:THR:OG1	2.39	0.40
1:G6:344:TRP:CE3	1:G6:345:ILE:HG13	2.57	0.40
2:G7:397:LEU:HD23	2:G7:397:LEU:HA	1.93	0.40
2:G7:402:ARG:HD3	2:G7:402:ARG:HA	1.93	0.40
1:G8:262:ARG:NH2	1:G8:417:ASP:OD1	2.55	0.40
2:G9:74:VAL:O	2:G9:78:VAL:HG23	2.21	0.40
2:G9:217:LEU:HD23	2:G9:217:LEU:HA	1.80	0.40
2:G9:430:LYS:O	2:G9:434:GLU:HG3	2.22	0.40
2:H1:325:PRO:HA	2:H1:328:VAL:HG22	2.03	0.40
1:H2:414:ASN:HA	1:H2:417:ASP:OD2	2.22	0.40
2:H3:36:MET:HA	2:H3:37:PRO:HD3	1.96	0.40
2:H3:297:GLU:OE1	2:H3:297:GLU:N	2.53	0.40
2:H3:389:SER:N	2:H3:429:GLU:OE1	2.54	0.40
2:H9:79:ARG:O	2:H9:84:ARG:HG2	2.21	0.40
2:I1:402:ARG:HD3	2:I1:402:ARG:HA	1.89	0.40
1:I2:117:LEU:HA	1:I2:117:LEU:HD23	1.83	0.40
2:I3:52:PHE:O	2:I3:64:ARG:N	2.46	0.40
2:I3:73:THR:HG23	1:I4:2:ARG:HH22	1.85	0.40
1:I4:19:LYS:O	1:I4:23:VAL:HG23	2.20	0.40
1:I4:100:ASN:HB3	1:I4:103:LYS:HB2	2.03	0.40
2:I5:243:ARG:NH1	2:I5:244:PHE:HE2	2.19	0.40
2:I5:384:ILE:HG23	2:I5:432:PHE:CZ	2.56	0.40
2:I7:402:ARG:HA	2:I7:402:ARG:HD3	1.79	0.40
1:J0:232:VAL:HG22	1:J0:270:PHE:HB2	2.04	0.40
2:J1:305:CYS:HB3	2:J1:387:ILE:HD11	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J1:430:LYS:HA	2:J1:433:GLU:OE2	2.22	0.40
2:J3:145:THR:OG1	41:J4:501:GTP:O1B	2.40	0.40
1:J6:5:VAL:HG22	1:J6:133:PHE:CD1	2.54	0.40
1:J6:293:MET:HE2	1:J6:367:PHE:HD1	1.87	0.40
2:J7:7:ILE:HG12	2:J7:137:VAL:HG12	2.03	0.40
2:J7:90:GLU:CG	2:J7:121:ARG:HH12	2.33	0.40
2:J9:12:ALA:HB2	41:K0:501:GTP:C8	2.56	0.40
2:J9:90:GLU:O	2:J9:121:ARG:NH1	2.33	0.40
2:K3:327:ASP:OD1	2:K3:328:VAL:N	2.55	0.40
1:K4:224:ASP:OD1	1:K4:225:LEU:N	2.54	0.40
2:K5:213:CYS:HA	2:K5:217:LEU:HB2	2.03	0.40
1:K8:165:LEU:HD23	1:K8:165:LEU:HA	1.95	0.40
2:K9:178:SER:OG	2:K9:183:GLU:OE2	2.30	0.40
1:L0:21:TRP:CZ3	1:L0:61:PRO:HB3	2.56	0.40
2:L1:176:GLN:OE1	2:L1:176:GLN:N	2.44	0.40
1:L2:237:THR:HG23	1:L2:241:ARG:HH21	1.85	0.40
2:L5:88:HIS:O	2:L5:90:GLU:N	2.54	0.40
1:L6:48:ASN:OD1	1:L6:48:ASN:N	2.55	0.40
1:L6:249:ASP:OD1	1:L6:252:LYS:N	2.49	0.40
2:L9:113:GLU:OE1	2:L9:113:GLU:N	2.54	0.40
1:M0:392:LYS:HD2	1:M0:395:LEU:HD22	2.03	0.40
1:M2:263:LEU:HD13	1:M2:422:TYR:CE1	2.56	0.40
2:M3:96:LYS:HG2	1:M4:1:MET:HE1	2.03	0.40
2:M3:103:PHE:CE1	2:M3:148:GLY:HA2	2.56	0.40
2:M5:62:VAL:HA	2:M5:63:PRO:HD3	1.93	0.40
2:M5:137:VAL:HG22	2:M5:168:GLY:HA2	2.03	0.40
2:M5:230:LEU:HD12	2:M5:231:ILE:HD13	2.03	0.40
2:M5:417:GLU:HA	2:M5:420:GLU:HG2	2.02	0.40
1:M6:199:CYS:HB2	1:M6:265:PHE:CD1	2.57	0.40
2:M7:279:GLU:O	2:M7:280:LYS:C	2.56	0.40
1:M8:77:ARG:HH21	1:M8:90:PHE:HD2	1.67	0.40
1:M8:345:ILE:HB	1:M8:348:ASN:HD21	1.87	0.40
2:M9:14:ILE:HD11	2:M9:74:VAL:CG1	2.51	0.40
2:M9:65:CYS:SG	2:M9:87:PHE:CE1	3.14	0.40
1:N0:1:MET:HB3	1:N0:2:ARG:H	1.68	0.40
1:N0:318:ARG:HB3	1:N0:357:PRO:HA	2.02	0.40
2:N1:306:ASP:HB3	2:N1:309:HIS:CD2	2.57	0.40
1:N2:126:SER:OG	32:7P:22:ASN:OD1	2.38	0.40
1:N2:137:HIS:NE2	1:N2:166:THR:OG1	2.54	0.40
2:N5:12:ALA:HB2	41:N6:501:GTP:C8	2.56	0.40
2:N5:79:ARG:O	2:N5:84:ARG:HG2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N7:397:LEU:HA	2:N7:397:LEU:HD23	1.85	0.40
1:N8:170:VAL:HG22	1:N8:202:LEU:O	2.22	0.40
1:N8:317:PHE:HB3	1:N8:321:MET:HE3	2.03	0.40
2:O3:8:HIS:CD2	2:O3:138:PHE:HD2	2.39	0.40
2:O3:370:LYS:HE3	2:O3:370:LYS:HB2	1.77	0.40
2:O5:76:ASP:O	2:O5:80:THR:HG23	2.21	0.40
2:O7:111:GLY:HA2	2:O7:114:ILE:HG22	2.04	0.40
2:O7:242:LEU:HD11	2:O7:252:ILE:HG12	2.04	0.40
2:O7:262:TYR:CE2	2:O7:346:TRP:CH2	3.09	0.40
2:P3:210:TYR:CE1	2:P3:227:LEU:HD21	2.56	0.40
1:P4:361:LEU:HD23	1:P4:361:LEU:HA	1.89	0.40
2:P5:189:LEU:HD11	2:P5:418:PHE:CE1	2.53	0.40
2:P5:287:SER:N	2:P5:290:GLU:OE2	2.55	0.40
2:P5:361:THR:OG1	2:P5:362:VAL:N	2.55	0.40
1:P6:135:VAL:HG12	1:P6:137:HIS:HD2	1.87	0.40
1:P6:208:TYR:CE1	1:P6:225:LEU:HD11	2.56	0.40
2:P9:320:ARG:O	2:P9:373:ARG:HA	2.21	0.40
1:Q0:2:ARG:HB3	1:Q0:131:GLN:HB2	2.04	0.40
1:Q2:49:VAL:HG11	1:Q2:241:ARG:HG2	2.02	0.40
1:Q2:271:THR:CG2	1:Q2:365:ALA:HB3	2.52	0.40
2:Q3:206:ASN:OD1	41:Q4:501:GTP:N2	2.55	0.40
1:Q4:178:THR:OG1	1:Q4:181:GLU:HG3	2.22	0.40
2:Q5:10:GLY:O	2:Q5:14:ILE:HD12	2.20	0.40
1:Q8:30:ILE:HG22	1:Q8:36:TYR:HA	2.03	0.40
1:Q8:190:HIS:CD2	1:Q8:414:ASN:HB2	2.56	0.40
1:Q8:286:VAL:HA	1:Q8:289:LEU:HG	2.01	0.40
2:Q9:52:PHE:CZ	2:Q9:239:THR:HG21	2.56	0.40
2:Q9:253:THR:O	2:Q9:256:GLN:HB2	2.22	0.40
1:R0:20:PHE:O	1:R0:23:VAL:HG22	2.22	0.40
2:R1:373:ARG:HH22	7:4R:28:GLY:HA3	1.86	0.40
1:R2:65:LEU:HD13	1:R2:90:PHE:CE1	2.56	0.40
1:R2:397:TRP:HZ2	2:R3:260:VAL:CG2	2.34	0.40
2:R3:4:VAL:HG23	2:R3:134:GLY:O	2.21	0.40
1:R4:40:SER:HB3	21:6G:93:HIS:CE1	2.57	0.40
1:R4:135:VAL:HG22	1:R4:137:HIS:HD2	1.86	0.40
1:R4:192:LEU:HD23	1:R4:192:LEU:HA	1.86	0.40
1:R4:257:LEU:HD21	1:R4:314:SER:HB2	2.04	0.40
1:R6:317:PHE:HB3	1:R6:321:MET:SD	2.61	0.40
1:R8:69:GLU:N	1:R8:69:GLU:OE2	2.54	0.40
1:R8:215:LEU:HB3	1:R8:217:LEU:HG	2.03	0.40
1:S0:311:LEU:HA	1:S0:311:LEU:HD23	1.76	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S7:267:PHE:CB	2:S7:384:ILE:HG21	2.51	0.40
2:S7:319:TYR:CZ	2:S7:328:VAL:HG23	2.56	0.40
2:S9:4:VAL:HG23	2:S9:134:GLY:O	2.21	0.40
2:S9:7:ILE:HG22	2:S9:66:ILE:HG12	2.03	0.40
2:T1:245:ASP:OD1	7:4U:7:GLN:HG2	2.21	0.40
1:T2:167:PHE:CZ	1:T2:233:MET:HG2	2.57	0.40
2:T3:7:ILE:HG22	2:T3:66:ILE:HG12	2.03	0.40
1:T4:306:ARG:NH1	13:5J:106:TYR:HB2	2.34	0.40
1:T6:405:GLU:HG2	13:5K:53:PHE:HZ	1.85	0.40
2:U3:312:TYR:O	2:U3:344:VAL:HG13	2.21	0.40
1:U4:178:THR:CG2	1:U4:181:GLU:HG3	2.52	0.40
1:U4:257:LEU:HD21	1:U4:314:SER:HB2	2.03	0.40
2:U5:273:ALA:HA	2:U5:274:PRO:HA	1.89	0.40
1:U6:322:SER:HB3	1:U6:325:GLU:HG3	2.04	0.40
2:U7:250:VAL:HG23	2:U7:254:GLU:HG3	2.04	0.40
1:U8:61:PRO:HG2	1:U8:85:PHE:CE1	2.56	0.40
2:U9:193:SER:HB2	2:U9:197:HIS:CE1	2.56	0.40
2:U9:313:MET:HA	2:U9:344:VAL:HG22	2.04	0.40
1:V0:116:VAL:O	1:V0:120:VAL:HG12	2.21	0.40
2:V3:296:PHE:HE1	2:V3:312:TYR:HE2	1.69	0.40
2:V3:335:ILE:HD13	2:V3:335:ILE:HA	1.89	0.40
1:V6:387:ALA:HA	1:V6:390:ARG:HH21	1.85	0.40
2:V7:30:ILE:HD12	2:V7:53:PHE:CE2	2.56	0.40
2:V7:211:ASP:OD2	2:V7:215:ARG:NH1	2.54	0.40
2:V9:107:HIS:CD2	2:V9:152:LEU:HB2	2.56	0.40
2:V9:175:PRO:HG2	2:V9:176:GLN:OE1	2.21	0.40
1:W2:3:GLU:HB2	1:W2:130:LEU:HA	2.03	0.40
2:W3:122:ILE:HD13	2:W3:157:LEU:HD11	2.02	0.40
1:W4:31:ASP:OD2	1:W4:37:HIS:NE2	2.55	0.40
1:W6:246:LEU:HD22	1:W6:352:SER:HA	2.04	0.40
2:W7:224:TYR:CB	1:W8:245:GLN:HE21	2.31	0.40
1:W8:192:LEU:HD23	1:W8:192:LEU:HA	1.80	0.40
2:W9:142:GLY:O	2:W9:186:ASN:ND2	2.55	0.40
2:W9:274:PRO:CB	2:W9:286:LEU:HD11	2.49	0.40
2:W9:274:PRO:HG2	2:W9:371:VAL:HG11	2.03	0.40
1:X0:121:ARG:NH2	1:X0:158:GLU:OE2	2.52	0.40
1:X2:19:LYS:HD2	1:X2:22:GLU:OE2	2.22	0.40
1:X2:203:ASP:N	1:X2:203:ASP:OD1	2.54	0.40
1:X2:396:HIS:CE1	1:X2:397:TRP:CE2	3.09	0.40
2:X5:237:SER:HA	2:X5:320:ARG:HH11	1.87	0.40
2:X5:255:PHE:HD1	2:X5:259:LEU:CD1	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X7:335:ILE:HD12	2:X7:335:ILE:HA	1.97	0.40
1:X8:101:TRP:HB2	1:X8:184:ASN:OD1	2.22	0.40
1:X8:154:LYS:HA	1:X8:154:LYS:HD3	1.92	0.40
2:Y1:213:CYS:HA	2:Y1:217:LEU:HB2	2.03	0.40
1:Y2:178:THR:HA	2:Y3:352:LYS:HD2	2.04	0.40
2:Y3:335:ILE:HD13	2:Y3:335:ILE:HA	1.90	0.40
2:Y5:271:SER:OG	2:Y5:300:SER:O	2.30	0.40
1:Y6:267:MET:H	1:Y6:267:MET:HG2	1.71	0.40
1:Y8:270:PHE:CD2	1:Y8:273:LEU:HD21	2.56	0.40
2:Y9:338:LYS:HG3	2:Y9:340:THR:HG22	2.03	0.40
1:Z0:266:PHE:CD1	1:Z0:370:ASN:HB2	2.55	0.40
2:Z1:177:VAL:HG13	1:Z2:327:ASP:OD1	2.21	0.40
2:Z3:419:SER:O	2:Z3:423:GLU:HG2	2.21	0.40
1:Z4:152:ILE:HD13	1:Z4:152:ILE:HA	1.86	0.40
2:Z7:4:VAL:HG12	2:Z7:133:GLN:HB2	2.02	0.40
1:0A:21:TRP:CZ3	1:0A:61:PRO:HB3	2.57	0.40
1:0A:417:ASP:N	1:0A:417:ASP:OD1	2.54	0.40
2:0B:286:LEU:HD23	2:0B:286:LEU:H	1.85	0.40
2:0B:286:LEU:HG	2:0B:373:ARG:NH1	2.37	0.40
1:0E:174:LYS:HZ1	1:0E:380:ARG:HH21	1.69	0.40
1:0E:314:SER:HA	1:0E:350:LYS:O	2.21	0.40
2:0H:66:ILE:O	2:0H:66:ILE:HG13	2.20	0.40
2:0L:246:GLY:HA3	2:0L:356:ASN:HA	2.03	0.40
1:0M:128:ASP:OD1	1:0M:129:CYS:N	2.50	0.40
1:0M:175:VAL:HG22	1:0M:205:GLU:HB2	2.04	0.40
1:0M:317:PHE:HE2	1:0M:326:VAL:HG13	1.86	0.40
2:0P:88:HIS:CE1	2:1F:283:HIS:HA	2.57	0.40
2:0P:174:SER:HB2	2:0P:205:ASP:OD1	2.22	0.40
2:0P:212:ILE:O	2:0P:216:SER:OG	2.26	0.40
1:0Q:203:ASP:OD1	1:0Q:301:CYS:HA	2.21	0.40
2:0R:335:ILE:HD12	2:0R:335:ILE:HA	1.85	0.40
1:0U:203:ASP:OD2	1:0U:302:ALA:N	2.54	0.40
2:0V:93:ILE:HD12	2:0V:117:LEU:HD21	2.03	0.40
1:0W:99:ASN:ND2	2:0X:254:GLU:OE1	2.54	0.40
1:0Y:113:ILE:HD12	1:0Y:113:ILE:HA	1.87	0.40
1:0Y:272:PRO:HD3	1:0Y:364:SER:HA	2.02	0.40
2:0Z:286:LEU:HG	2:0Z:371:VAL:HG23	2.02	0.40
1:1A:388:MET:CE	2:1B:348:PRO:HD2	2.51	0.40
1:1C:334:GLN:NE2	1:1C:348:ASN:H	2.14	0.40
2:1H:166:LYS:NZ	2:1H:199:ASP:OD2	2.37	0.40
2:1L:294:ALA:HA	2:1L:297:GLU:OE1	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1L:394:LYS:HB2	1:1M:346:PRO:HG3	2.03	0.40
1:1M:58:ARG:HG2	1:2C:280:GLN:HE22	1.86	0.40
1:1M:208:TYR:OH	2:1N:325:PRO:HB2	2.20	0.40
1:1M:382:SER:HB3	1:1M:415:MET:HG2	2.03	0.40
1:1O:309:ARG:NH1	1:1O:339:SER:O	2.54	0.40
1:1Q:121:ARG:NH2	1:1Q:158:GLU:OE2	2.55	0.40
2:1R:9:ILE:HG22	2:1R:146:GLY:HA2	2.03	0.40
2:1R:62:VAL:O	2:1R:62:VAL:HG13	2.22	0.40
2:1R:331:SER:O	2:1R:334:THR:N	2.55	0.40
2:1V:36:MET:HA	2:1V:37:PRO:HD3	1.97	0.40
2:1V:55:GLU:HG2	2:1V:61:HIS:ND1	2.36	0.40
2:1X:121:ARG:HA	2:1X:121:ARG:HD2	1.82	0.40
1:2A:152:ILE:HG22	1:2A:195:ASN:HB3	2.02	0.40
1:2A:345:ILE:HB	1:2A:348:ASN:HD21	1.86	0.40
1:2C:162:ARG:HA	1:2C:162:ARG:HD3	1.90	0.40
2:2D:21:TRP:CZ2	2:2D:65:CYS:HB3	2.56	0.40
1:2E:144:GLY:N	39:2E:502:GDP:O1B	2.54	0.40
1:2G:178:THR:OG1	1:2G:181:GLU:HG3	2.22	0.40
1:2G:293:MET:HB3	1:2G:293:MET:HE2	1.98	0.40
2:2H:88:HIS:HE1	2:2H:121:ARG:NH2	2.17	0.40
1:2K:5:VAL:HG12	1:2K:133:PHE:CD1	2.57	0.40
1:2M:83:GLN:N	1:2M:83:GLN:OE1	2.53	0.40
1:2Q:272:PRO:HD3	1:2Q:364:SER:HA	2.03	0.40
1:2Q:405:GLU:HA	1:2Q:408:PHE:HD2	1.86	0.40
2:2R:108:TYR:O	2:2R:112:LYS:HG2	2.21	0.40
1:2S:414:ASN:HA	1:2S:417:ASP:OD2	2.22	0.40
2:2T:298:PRO:HB3	2:2T:307:PRO:HD3	2.04	0.40
2:2T:420:GLU:HA	2:2T:423:GLU:HG3	2.02	0.40
2:2V:387:ILE:HG12	2:2V:390:ARG:HH22	1.85	0.40
1:2W:290:THR:HG23	38:8B:54:THR:HG21	2.03	0.40
1:2W:317:PHE:HB3	1:2W:321:MET:SD	2.61	0.40
2:2X:139:ASN:O	2:2X:170:THR:HA	2.22	0.40
1:2Y:54:ALA:N	1:2Y:58:ARG:O	2.49	0.40
1:2Y:203:ASP:OD2	1:2Y:302:ALA:N	2.55	0.40
2:2Z:110:ILE:O	2:2Z:113:GLU:HG3	2.21	0.40
2:2Z:188:VAL:HG21	2:2Z:395:PHE:CE1	2.57	0.40
2:2Z:235:ILE:O	2:2Z:239:THR:HG22	2.21	0.40
1:3A:386:THR:O	1:3A:390:ARG:HG3	2.21	0.40
2:3B:111:GLY:O	2:3B:115:VAL:HG23	2.21	0.40
2:3B:120:ASP:OD2	2:3B:120:ASP:C	2.59	0.40
2:3B:178:SER:OG	1:3C:347:ASN:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3H:205:ASP:OD1	2:3H:206:ASN:N	2.47	0.40
2:3L:130:THR:HG23	2:3L:131:GLY:N	2.37	0.40
2:3N:174:SER:HB3	2:3N:177:VAL:O	2.20	0.40
2:3N:367:ASP:OD2	2:3N:367:ASP:N	2.53	0.40
1:3Q:3:GLU:HB2	1:3Q:130:LEU:HA	2.03	0.40
2:3R:268:MET:HA	2:3R:379:SER:O	2.21	0.40
2:3T:335:ILE:O	2:3T:338:LYS:HB2	2.21	0.40
3:3V:77:ASN:ND2	3:3V:79:THR:HG23	2.37	0.40
4:3W:69:LEU:HD23	4:3W:69:LEU:H	1.87	0.40
3:3X:77:ASN:ND2	3:3X:79:THR:HG23	2.37	0.40
3:3X:132:ILE:HG23	3:3X:143:ILE:CG2	2.51	0.40
3:3Z:77:ASN:ND2	3:3Z:79:THR:HG23	2.37	0.40
4:4A:57:THR:OG1	4:4A:158:ALA:HB2	2.22	0.40
3:4B:9:LEU:HD23	3:4B:9:LEU:HA	1.89	0.40
3:4B:132:ILE:HG23	3:4B:143:ILE:CG2	2.52	0.40
4:4C:69:LEU:HD23	4:4C:69:LEU:H	1.87	0.40
3:4D:9:LEU:HD23	3:4D:9:LEU:HA	1.89	0.40
3:4D:77:ASN:ND2	3:4D:79:THR:HG23	2.37	0.40
3:4F:77:ASN:ND2	3:4F:79:THR:HG23	2.37	0.40
3:4H:77:ASN:ND2	3:4H:79:THR:HG23	2.37	0.40
3:4J:279:ALA:O	3:4J:283:GLN:HG2	2.21	0.40
5:4L:252:GLU:O	5:4L:256:MET:HG2	2.21	0.40
5:4M:40:GLU:OE1	5:4M:44:ARG:HD3	2.21	0.40
6:4O:150:ASP:OD1	6:4O:150:ASP:N	2.54	0.40
6:4O:258:HIS:HA	6:4O:261:GLU:OE1	2.22	0.40
7:4R:233:MET:HB3	7:4R:233:MET:HE3	1.83	0.40
7:4T:184:LEU:HD23	31:7M:78:HIS:CG	2.53	0.40
7:4U:31:LYS:O	7:4U:35:GLU:HG3	2.21	0.40
8:4W:473:LYS:HE3	8:4W:473:LYS:HB3	1.91	0.40
9:4Z:348:GLU:HB3	9:4Z:352:TYR:OH	2.21	0.40
10:5B:101:ARG:O	10:5B:105:MET:HG2	2.21	0.40
10:5C:331:MET:CE	10:5C:334:ARG:HH21	2.32	0.40
12:5G:335:LEU:O	12:5G:335:LEU:HD12	2.22	0.40
13:5J:76:THR:HA	13:5J:79:THR:HG22	2.04	0.40
14:5L:366:LEU:HD13	14:5L:366:LEU:HA	1.82	0.40
14:5M:165:THR:HG21	14:5M:200:VAL:HG11	2.02	0.40
14:5N:459:GLN:OE1	14:5N:459:GLN:N	2.54	0.40
15:5P:140:HIS:CB	15:5P:146:VAL:HG11	2.48	0.40
16:5Q:192:TYR:CE2	35:7T:130:LYS:HE3	2.56	0.40
17:5S:138:MET:H	17:5S:138:MET:HG3	1.51	0.40
17:5T:196:TYR:HA	17:5T:199:LEU:HD12	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:5Y:36:ASN:OD1	18:5Y:84:ARG:NH2	2.45	0.40
18:5Y:198:LEU:HD13	18:5Y:198:LEU:HA	1.79	0.40
18:5Z:128:GLN:CD	18:5Z:128:GLN:H	2.17	0.40
18:6C:7:LEU:CD1	18:6C:69:THR:HG21	2.52	0.40
18:6D:7:LEU:CD1	18:6D:69:THR:HG21	2.52	0.40
22:6I:73:ASN:ND2	24:6T:310:GLU:OE1	2.54	0.40
22:6I:204:PHE:HB2	22:6I:227:TYR:CE2	2.56	0.40
22:6K:324:LYS:O	22:6K:328:THR:HG23	2.21	0.40
22:6M:53:THR:HA	22:6M:57:THR:HG21	2.03	0.40
22:6O:186:ARG:HA	22:6O:189:LYS:HD2	2.03	0.40
22:6P:123:PRO:O	22:6P:124:PHE:CG	2.74	0.40
23:6S:2:ASP:O	23:6S:6:GLN:HG3	2.21	0.40
24:6W:103:LYS:HG2	24:6W:116:ILE:HG12	2.03	0.40
24:6W:274:ARG:HB3	24:6W:372:ASP:OD2	2.21	0.40
24:6X:613:LYS:O	24:6X:617:ASP:CB	2.66	0.40
24:6Y:279:TRP:CZ2	24:6Y:364:ARG:HG3	2.56	0.40
28:7H:332:LEU:HD23	28:7H:332:LEU:HA	1.78	0.40
29:7J:144:GLN:O	29:7J:148:VAL:HG23	2.21	0.40
29:7J:461:ILE:HD13	29:7J:461:ILE:HA	1.89	0.40
32:7O:62:THR:HG21	32:7O:67:ARG:HD2	2.02	0.40
35:7U:122:LYS:HA	35:7U:122:LYS:HD3	1.94	0.40
37:7Y:137:LEU:HD21	37:7Y:162:LEU:HD22	2.03	0.40
38:8A:12:LEU:HD12	38:8A:12:LEU:HA	1.88	0.40
2:G1:182:VAL:HG22	1:G2:256:ASN:ND2	2.36	0.40
1:G2:180:VAL:HG23	1:G2:184:ASN:HD21	1.86	0.40
1:G4:343:GLU:HG2	1:G4:344:TRP:N	2.36	0.40
2:G5:90:GLU:HB2	2:I1:283:HIS:CE1	2.57	0.40
2:G5:319:TYR:HD2	2:G5:323:VAL:HG11	1.87	0.40
1:G6:135:VAL:HG11	1:G6:152:ILE:HD11	2.04	0.40
1:G6:317:PHE:HE2	1:G6:326:VAL:HG13	1.86	0.40
1:G8:252:LYS:HE2	1:G8:350:LYS:HE2	2.03	0.40
2:G9:47:ASP:OD1	2:G9:47:ASP:N	2.54	0.40
2:G9:107:HIS:HB3	2:G9:108:TYR:CD2	2.56	0.40
2:G9:388:PHE:CD1	2:G9:391:LEU:HD12	2.56	0.40
2:H1:204:LEU:HD23	2:H1:231:ILE:HD12	2.04	0.40
2:H1:301:MET:HE1	2:H1:307:PRO:HD3	2.03	0.40
2:H3:177:VAL:HG13	1:H4:327:ASP:HB3	2.04	0.40
2:H3:327:ASP:N	2:H3:327:ASP:OD1	2.52	0.40
1:H4:277:GLY:CA	24:6U:492:ILE:CG2	2.99	0.40
2:H5:24:TYR:HD1	2:H5:24:TYR:HA	1.77	0.40
2:H5:102:ASN:HB3	2:H5:105:ARG:HB3	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H5:346:TRP:CZ3	2:H5:435:VAL:HG13	2.57	0.40
1:H6:309:ARG:NH1	1:H6:339:SER:O	2.55	0.40
2:H7:9:ILE:HD11	2:H7:153:LEU:HD22	2.02	0.40
2:H7:176:GLN:HG2	2:H7:177:VAL:N	2.37	0.40
2:H9:90:GLU:O	2:H9:121:ARG:NH1	2.53	0.40
2:H9:227:LEU:O	2:H9:231:ILE:HG12	2.22	0.40
2:H9:318:MET:HB2	2:H9:376:CYS:HB3	2.04	0.40
2:I1:312:TYR:HB2	2:I1:343:PHE:CD1	2.56	0.40
1:I4:3:GLU:O	1:I4:131:GLN:HB3	2.22	0.40
1:I4:273:LEU:O	1:I4:292:GLN:NE2	2.51	0.40
2:I7:32:PRO:HB3	2:I7:83:TYR:CE1	2.56	0.40
2:I7:88:HIS:CG	2:K3:283:HIS:HA	2.56	0.40
1:I8:403:MET:HE3	1:I8:403:MET:HB2	1.67	0.40
2:I9:370:LYS:HD2	5:4L:317:TYR:CZ	2.56	0.40
1:J2:98:GLY:HA2	2:J3:254:GLU:OE2	2.21	0.40
1:J2:100:ASN:HB3	1:J2:103:LYS:HB2	2.03	0.40
1:J4:50:TYR:CE2	1:J4:241:ARG:HD3	2.57	0.40
2:J5:301:MET:HE2	2:J5:301:MET:HB2	1.88	0.40
1:J8:58:ARG:HA	1:J8:58:ARG:HD2	1.88	0.40
1:K0:22:GLU:HG2	1:K0:81:TYR:CD2	2.56	0.40
1:K4:244:GLY:HA2	1:K4:355:ASP:CG	2.42	0.40
1:K4:314:SER:HA	1:K4:350:LYS:O	2.21	0.40
2:K7:252:ILE:HD12	2:K7:252:ILE:HA	1.95	0.40
2:K7:252:ILE:HD12	2:K7:255:PHE:HE2	1.87	0.40
2:K9:4:VAL:HG23	2:K9:134:GLY:O	2.21	0.40
2:K9:7:ILE:HG12	2:K9:137:VAL:HG12	2.02	0.40
2:K9:27:GLU:CD	2:K9:243:ARG:HH12	2.24	0.40
2:L1:114:ILE:HG21	2:L1:149:LEU:HD22	2.04	0.40
2:L1:175:PRO:HG2	2:L1:176:GLN:OE1	2.21	0.40
2:L1:320:ARG:O	2:L1:373:ARG:HA	2.22	0.40
1:L2:301:CYS:SG	1:L2:302:ALA:N	2.95	0.40
2:L3:149:LEU:HD23	2:L3:149:LEU:H	1.85	0.40
2:L5:21:TRP:CZ2	2:L5:65:CYS:HB3	2.57	0.40
1:L6:174:LYS:HE2	1:L6:174:LYS:HB3	1.82	0.40
1:L6:217:LEU:HD23	1:L6:217:LEU:HA	1.93	0.40
1:L6:270:PHE:HD2	1:L6:273:LEU:HD21	1.86	0.40
2:L9:21:TRP:CZ3	2:L9:63:PRO:HB3	2.57	0.40
2:M1:191:THR:O	2:M1:195:LEU:HG	2.22	0.40
2:M3:72:PRO:HD2	1:M4:2:ARG:NH1	2.37	0.40
2:M3:244:PHE:HB2	2:M3:356:ASN:HD21	1.85	0.40
1:M4:314:SER:HA	1:M4:350:LYS:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M7:373:ARG:NH1	30:7K:84:VAL:HG22	2.36	0.40
1:M8:216:LYS:HB2	1:M8:275:SER:OG	2.21	0.40
2:M9:282:TYR:HE2	29:7J:296:LYS:HB2	1.87	0.40
1:N0:5:VAL:HG12	1:N0:133:PHE:CD1	2.56	0.40
2:N3:182:VAL:HG12	2:N3:185:TYR:HB2	2.02	0.40
2:N5:236:SER:HA	2:N5:239:THR:HG22	2.02	0.40
2:N5:420:GLU:HA	2:N5:423:GLU:HG3	2.03	0.40
1:N6:49:VAL:HG11	1:N6:241:ARG:HG2	2.03	0.40
1:N6:101:TRP:HB2	1:N6:184:ASN:OD1	2.22	0.40
1:N8:175:VAL:HB	2:N9:329:ASN:ND2	2.37	0.40
1:O0:117:LEU:HA	1:O0:117:LEU:HD23	1.93	0.40
2:O1:75:VAL:HG11	2:O1:94:SER:HB3	2.03	0.40
1:O2:117:LEU:HD11	1:O2:154:LYS:HD3	2.04	0.40
2:O3:203:MET:HB2	2:O3:303:VAL:HG21	2.02	0.40
2:O3:335:ILE:HG23	2:O3:341:ILE:HD11	2.03	0.40
2:O3:402:ARG:HD3	2:O3:402:ARG:HA	1.90	0.40
2:O5:21:TRP:CZ3	2:O5:63:PRO:HB3	2.56	0.40
2:O5:32:PRO:HB3	2:O5:83:TYR:CE1	2.56	0.40
2:O5:62:VAL:O	2:O5:62:VAL:CG2	2.70	0.40
2:O5:151:SER:HB2	2:O5:193:SER:OG	2.21	0.40
2:O5:320:ARG:HE	2:O5:320:ARG:HB3	1.76	0.40
2:O7:327:ASP:OD1	2:O7:328:VAL:N	2.55	0.40
2:O7:417:GLU:OE2	2:O7:417:GLU:N	2.39	0.40
1:P4:69:GLU:OE2	1:P4:69:GLU:N	2.54	0.40
1:P8:134:GLN:HE21	1:P8:167:PHE:HE2	1.69	0.40
2:P9:245:ASP:OD1	19:6E:166:LYS:HG3	2.21	0.40
1:Q0:344:TRP:CE3	1:Q0:345:ILE:HG12	2.57	0.40
2:Q1:349:THR:HG23	2:Q1:349:THR:O	2.22	0.40
1:Q2:228:LEU:HD23	1:Q2:228:LEU:HA	1.83	0.40
2:Q3:177:VAL:HG13	1:Q4:327:ASP:HB3	2.03	0.40
2:Q5:75:VAL:O	2:Q5:79:ARG:HG3	2.22	0.40
1:Q6:23:VAL:HG11	1:Q6:230:SER:HB3	2.04	0.40
1:Q8:11:GLN:NE2	2:Q9:249:ASN:OD1	2.55	0.40
2:Q9:326:LYS:HG3	2:Q9:327:ASP:N	2.37	0.40
2:R1:271:SER:OG	2:R1:272:TYR:N	2.54	0.40
1:R2:222:PHE:HD2	2:R3:247:ALA:HB1	1.85	0.40
2:R3:287:SER:N	2:R3:290:GLU:OE2	2.54	0.40
1:R4:95:THR:HG23	1:R4:96:GLY:H	1.87	0.40
1:R4:183:TYR:O	1:R4:187:LEU:HD13	2.22	0.40
1:R6:145:SER:OG	1:R6:146:GLY:N	2.55	0.40
1:R6:229:ILE:O	1:R6:233:MET:HG3	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R8:58:ARG:NH2	1:T4:280:GLN:OE1	2.55	0.40
1:S0:390:ARG:O	1:S0:392:LYS:NZ	2.54	0.40
2:S1:174:SER:HB3	2:S1:177:VAL:O	2.21	0.40
2:S5:287:SER:OG	2:S5:288:VAL:N	2.54	0.40
1:S6:5:VAL:HG22	1:S6:62:ARG:HD3	2.03	0.40
1:S6:8:GLN:CD	1:S6:17:GLY:HA3	2.41	0.40
2:S7:203:MET:CE	2:S7:267:PHE:HD1	2.35	0.40
1:S8:283:ALA:HB3	1:S8:288:GLU:OE1	2.22	0.40
1:T0:192:LEU:HD23	1:T0:192:LEU:HA	1.86	0.40
2:T1:8:HIS:CD2	2:T1:138:PHE:HD2	2.39	0.40
2:T1:125:LEU:HD12	2:T1:125:LEU:HA	1.83	0.40
2:T1:231:ILE:O	2:T1:235:ILE:HD12	2.21	0.40
2:T5:90:GLU:CD	2:T5:121:ARG:HD3	2.42	0.40
2:T5:125:LEU:HD23	2:T5:125:LEU:HA	1.88	0.40
1:T6:16:ILE:HG21	1:T6:229:ILE:HG21	2.03	0.40
1:T6:267:MET:HE1	1:T6:303:ALA:O	2.22	0.40
2:T7:327:ASP:OD2	2:T7:327:ASP:N	2.49	0.40
1:T8:68:LEU:HD23	1:T8:68:LEU:HA	1.92	0.40
2:U1:195:LEU:HD11	2:U1:264:ARG:NH1	2.36	0.40
1:U2:281:TYR:O	1:U2:281:TYR:CG	2.75	0.40
1:U4:162:ARG:HD3	1:U4:162:ARG:HA	1.78	0.40
1:U4:283:ALA:O	1:U4:288:GLU:HG2	2.21	0.40
1:U6:301:CYS:SG	1:U6:302:ALA:N	2.95	0.40
2:U7:247:ALA:HB2	2:U7:357:TYR:CZ	2.57	0.40
2:U9:4:VAL:HG23	2:U9:134:GLY:O	2.21	0.40
1:V0:117:LEU:HA	1:V0:117:LEU:HD23	1.84	0.40
1:V0:217:LEU:HD23	1:V0:217:LEU:HA	1.91	0.40
2:V1:26:LEU:HD23	2:V1:363:VAL:HG12	2.04	0.40
2:V1:280:LYS:HA	2:V1:283:HIS:CD2	2.56	0.40
1:V2:48:ASN:OD1	1:V2:48:ASN:N	2.53	0.40
1:V2:116:VAL:O	1:V2:120:VAL:HG12	2.21	0.40
2:V3:100:ALA:HA	1:V4:252:LYS:CG	2.45	0.40
2:V3:203:MET:O	2:V3:204:LEU:HD22	2.22	0.40
1:V4:268:VAL:HG12	1:V4:269:GLY:N	2.36	0.40
1:V6:24:VAL:HG11	1:V6:50:TYR:CD2	2.57	0.40
1:V6:163:MET:SD	1:V6:251:ARG:NH1	2.95	0.40
2:V7:276:ILE:HD13	2:V7:276:ILE:HA	1.90	0.40
1:W2:113:ILE:HA	1:W2:116:VAL:CG1	2.50	0.40
1:W4:39:ASP:OD1	1:W4:40:SER:N	2.54	0.40
1:W4:138:SER:O	1:W4:139:LEU:HD23	2.22	0.40
1:W4:165:LEU:HD12	1:W4:165:LEU:HA	1.82	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W5:401:LYS:HE3	2:W5:401:LYS:HB3	1.93	0.40
1:W6:176:SER:O	1:W6:176:SER:OG	2.39	0.40
1:W6:203:ASP:N	1:W6:203:ASP:OD1	2.54	0.40
2:W7:313:MET:HB2	2:W7:380:ASN:HB3	2.04	0.40
2:W9:147:SER:OG	2:W9:190:SER:HB2	2.21	0.40
1:X2:297:LYS:HD3	1:X2:297:LYS:HA	1.83	0.40
1:X2:382:SER:HB2	1:X2:415:MET:HE3	2.02	0.40
2:X3:73:THR:HG23	2:X3:74:VAL:N	2.37	0.40
2:X3:401:LYS:HB3	2:X3:401:LYS:HE3	1.88	0.40
1:X8:257:LEU:HA	1:X8:312:THR:HG21	2.02	0.40
1:X8:387:ALA:HA	1:X8:390:ARG:HE	1.86	0.40
2:X9:306:ASP:HB3	2:X9:309:HIS:HD2	1.86	0.40
1:Y0:359:LYS:HA	1:Y0:359:LYS:HD3	1.85	0.40
2:Y1:286:LEU:O	2:Y1:373:ARG:NH1	2.55	0.40
2:Y5:167:LEU:HD13	2:Y5:200:VAL:HB	2.02	0.40
1:Y8:7:ILE:HB	1:Y8:135:VAL:HG12	2.03	0.40
1:Z2:2:ARG:HH21	1:Z2:240:LEU:HG	1.87	0.40
2:Z3:9:ILE:O	2:Z3:139:ASN:HA	2.21	0.40
2:Z3:54:SER:O	2:Z3:61:HIS:HA	2.21	0.40
2:Z3:223:THR:HG23	2:Z3:225:THR:H	1.87	0.40
2:Z3:387:ILE:HD12	2:Z3:390:ARG:HH22	1.87	0.40
1:Z4:156:ARG:HG3	1:Z4:195:ASN:O	2.21	0.40
1:Z4:414:ASN:O	1:Z4:418:LEU:HB2	2.21	0.40
2:Z5:271:SER:OG	2:Z5:272:TYR:N	2.54	0.40
2:Z5:406:HIS:HA	2:Z5:409:VAL:HG22	2.03	0.40
1:Z6:395:LEU:O	1:Z6:399:THR:HG23	2.22	0.40
1:Z8:58:ARG:NH1	1:Z8:84:ILE:HA	2.36	0.40
1:0A:130:LEU:HB3	1:0A:162:ARG:HD2	2.03	0.40
1:0C:68:LEU:HD13	1:0C:103:LYS:HZ2	1.86	0.40
1:0C:344:TRP:CE3	1:0C:345:ILE:HG13	2.57	0.40
1:0E:11:GLN:HE21	39:0E:501:GDP:PB	2.45	0.40
1:0E:233:MET:HA	1:0E:236:ILE:HG12	2.02	0.40
2:0F:25:CYS:SG	2:0F:86:LEU:HD11	2.62	0.40
1:0G:95:THR:OG1	1:0G:96:GLY:N	2.55	0.40
2:0H:89:PRO:HD2	2:0X:283:HIS:ND1	2.36	0.40
2:0H:407:TRP:HZ2	1:0I:258:ILE:HD12	1.86	0.40
1:0I:286:VAL:HG23	1:0I:287:PRO:HD3	2.03	0.40
1:0K:108:GLU:HA	1:0K:111:GLU:OE2	2.21	0.40
1:0M:343:GLU:HG2	1:0M:344:TRP:N	2.37	0.40
1:0O:39:ASP:OD1	1:0O:39:ASP:N	2.53	0.40
1:0O:271:THR:OG1	1:0O:272:PRO:HA	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0Q:285:THR:OG1	1:0Q:287:PRO:HD2	2.22	0.40
2:0R:207:GLU:HG3	2:0R:304:LYS:HB2	2.03	0.40
1:0S:166:THR:OG1	1:0S:199:CYS:HB3	2.22	0.40
1:0S:350:LYS:NZ	1:0S:351:SER:O	2.51	0.40
1:0U:203:ASP:OD1	1:0U:206:ALA:HB3	2.22	0.40
2:0V:346:TRP:CD1	2:0V:346:TRP:N	2.78	0.40
1:0W:2:ARG:O	1:0W:49:VAL:HG23	2.22	0.40
1:0W:19:LYS:O	1:0W:23:VAL:HG13	2.22	0.40
2:0Z:392:ASP:HB2	2:0Z:425:LEU:HD22	2.04	0.40
1:1A:35:THR:HG1	1:1A:37:HIS:HE2	1.59	0.40
1:1E:198:GLU:HA	1:1E:264:HIS:HB2	2.03	0.40
1:1E:208:TYR:HA	1:1E:211:CYS:SG	2.61	0.40
1:1E:215:LEU:HB3	1:1E:217:LEU:HG	2.04	0.40
1:1E:272:PRO:HB3	1:1E:282:ARG:HH22	1.87	0.40
2:1F:217:LEU:HD23	2:1F:217:LEU:HA	1.95	0.40
2:1H:47:ASP:HA	2:1H:50:ASN:OD1	2.22	0.40
2:1H:317:LEU:HB3	2:1H:319:TYR:CE1	2.48	0.40
1:1K:152:ILE:HD12	1:1K:164:MET:SD	2.62	0.40
1:1K:221:THR:OG1	1:1K:222:PHE:N	2.55	0.40
2:1N:111:GLY:HA2	2:1N:114:ILE:HG22	2.03	0.40
1:1O:210:ILE:O	1:1O:214:THR:OG1	2.31	0.40
2:1P:88:HIS:ND1	2:2F:283:HIS:O	2.54	0.40
2:1P:274:PRO:HG3	2:1P:286:LEU:HD11	2.04	0.40
2:1T:4:VAL:HG23	2:1T:134:GLY:O	2.22	0.40
1:1U:16:ILE:HG13	1:1U:17:GLY:N	2.35	0.40
1:1W:193:VAL:HG13	1:1W:194:GLU:CD	2.41	0.40
2:1Z:69:ASP:OD1	2:1Z:70:LEU:N	2.54	0.40
1:2A:274:THR:HG21	1:2A:282:ARG:HD2	2.02	0.40
1:2A:359:LYS:HB3	1:2A:359:LYS:HE3	1.60	0.40
2:2D:73:THR:HG21	1:2E:2:ARG:HH22	1.86	0.40
2:2F:70:LEU:HD13	2:2F:110:ILE:HG21	2.03	0.40
1:2G:183:TYR:O	1:2G:187:LEU:HD13	2.22	0.40
1:2K:396:HIS:HA	1:2K:399:THR:CG2	2.51	0.40
2:2P:327:ASP:N	2:2P:327:ASP:OD1	2.54	0.40
1:2Q:150:LEU:HD23	1:2Q:154:LYS:HG2	2.03	0.40
1:2Q:273:LEU:O	1:2Q:292:GLN:NE2	2.53	0.40
1:2Q:316:LEU:O	1:2Q:365:ALA:HA	2.21	0.40
2:2R:157:LEU:HA	2:2R:157:LEU:HD12	1.89	0.40
1:2S:153:SER:HB3	1:2S:195:ASN:HD21	1.86	0.40
1:2S:273:LEU:H	1:2S:292:GLN:HE22	1.68	0.40
2:2V:4:VAL:HG23	2:2V:134:GLY:O	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2V:179:THR:O	1:2W:350:LYS:HG2	2.21	0.40
2:2V:308:ARG:HH21	38:8B:73:TRP:C	2.25	0.40
1:2W:34:GLY:HA3	1:2W:58:ARG:HD3	2.03	0.40
1:2W:190:HIS:HD2	1:2W:414:ASN:HB2	1.86	0.40
2:2X:72:PRO:HD2	1:2Y:2:ARG:HH12	1.87	0.40
2:2X:187:SER:O	2:2X:191:THR:HG23	2.22	0.40
2:2Z:9:ILE:HD13	2:2Z:150:GLY:HA2	2.02	0.40
2:2Z:101:ASN:ND2	2:2Z:143:GLY:HA2	2.36	0.40
1:3A:19:LYS:HB3	1:3A:19:LYS:HE3	1.91	0.40
2:3B:398:MET:HG3	1:3C:346:PRO:HD2	2.03	0.40
1:3C:167:PHE:CE2	1:3C:233:MET:HG2	2.56	0.40
1:3C:285:THR:HB	1:3C:287:PRO:HD2	2.02	0.40
2:3H:121:ARG:HD2	2:3H:121:ARG:HA	1.66	0.40
2:3H:219:ILE:HD13	2:3H:219:ILE:HA	1.89	0.40
2:3H:397:LEU:HD23	2:3H:397:LEU:HA	1.88	0.40
1:3I:32:PRO:HD3	1:3I:81:TYR:CZ	2.56	0.40
1:3I:392:LYS:HD2	1:3I:395:LEU:HD22	2.03	0.40
2:3J:127:ASP:OD2	3:3Z:125:TYR:OH	2.37	0.40
2:3N:9:ILE:HD13	2:3N:150:GLY:HA2	2.03	0.40
2:3N:56:THR:HG1	3:4D:34:SER:HA	1.84	0.40
2:3N:413:MET:HB3	2:3N:417:GLU:OE2	2.21	0.40
1:3O:173:PRO:HD2	1:3O:380:ARG:NH2	2.36	0.40
1:3O:265:PHE:HD2	1:3O:422:TYR:OH	2.05	0.40
1:3Q:213:ARG:HH21	1:3Q:297:LYS:HE3	1.86	0.40
1:3Q:250:LEU:HD12	1:3Q:250:LEU:H	1.86	0.40
1:3S:3:GLU:HG3	1:3S:127:CYS:HB2	2.03	0.40
2:3T:14:ILE:HD13	2:3T:69:ASP:OD2	2.22	0.40
2:3T:81:GLY:O	2:3T:84:ARG:HG3	2.22	0.40
2:3T:320:ARG:HE	2:3T:320:ARG:HB3	1.68	0.40
2:3T:420:GLU:O	2:3T:423:GLU:HG3	2.21	0.40
4:3W:57:THR:OG1	4:3W:158:ALA:HB2	2.21	0.40
4:3W:73:LEU:HD13	4:3W:73:LEU:HA	1.94	0.40
3:3X:49:HIS:HB3	3:3X:113:ARG:NH1	2.36	0.40
4:4A:28:GLN:O	4:4A:57:THR:HA	2.21	0.40
4:4A:69:LEU:HD23	4:4A:69:LEU:H	1.87	0.40
3:4B:49:HIS:HB3	3:4B:113:ARG:NH1	2.36	0.40
3:4B:77:ASN:ND2	3:4B:79:THR:HG23	2.37	0.40
3:4B:171:PRO:HG2	3:4B:172:TYR:CD2	2.56	0.40
3:4D:132:ILE:HG23	3:4D:143:ILE:CG2	2.51	0.40
3:4D:171:PRO:HG2	3:4D:172:TYR:CD2	2.56	0.40
4:4E:57:THR:OG1	4:4E:158:ALA:HB2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4E:69:LEU:HD23	4:4E:69:LEU:H	1.87	0.40
3:4F:49:HIS:HB3	3:4F:113:ARG:NH1	2.36	0.40
3:4F:132:ILE:HG23	3:4F:143:ILE:CG2	2.52	0.40
3:4F:171:PRO:HG2	3:4F:172:TYR:CD2	2.56	0.40
3:4F:218:LEU:HA	3:4F:218:LEU:HD23	1.84	0.40
4:4G:57:THR:OG1	4:4G:158:ALA:HB2	2.22	0.40
4:4G:86:TYR:HB3	4:4G:108:TYR:CD2	2.56	0.40
4:4I:73:LEU:HD13	4:4I:73:LEU:HA	1.94	0.40
5:4L:470:ASP:OD2	5:4L:470:ASP:N	2.52	0.40
5:4M:41:PHE:CE1	5:4M:45:THR:HG21	2.57	0.40
6:4O:72:LYS:NZ	32:7O:88:LEU:HD22	2.37	0.40
10:5C:135:ARG:O	10:5C:139:MET:HG3	2.21	0.40
10:5C:262:ILE:HG13	10:5C:263:GLN:N	2.36	0.40
10:5C:354:LYS:HA	10:5C:354:LYS:HD2	1.90	0.40
11:5E:76:SER:O	11:5E:80:GLN:NE2	2.43	0.40
13:5H:76:THR:HA	13:5H:79:THR:HG22	2.04	0.40
13:5I:76:THR:HA	13:5I:79:THR:HG22	2.04	0.40
13:5K:61:LEU:HD23	13:5K:61:LEU:HA	1.94	0.40
14:5L:25:PRO:HD3	14:5L:64:LEU:HD21	2.03	0.40
14:5M:386:PHE:O	14:5M:387:CYS:C	2.59	0.40
14:5M:459:GLN:OE1	14:5M:459:GLN:N	2.54	0.40
14:5N:277:LYS:HE2	14:5N:277:LYS:HB2	1.90	0.40
14:5N:385:CYS:HB2	14:5N:401:TRP:CE3	2.56	0.40
15:5O:327:ALA:HA	15:5O:343:LEU:CD2	2.52	0.40
15:5P:14:LEU:O	15:5P:14:LEU:CG	2.70	0.40
15:5P:84:ARG:HH11	15:5P:84:ARG:HG2	1.87	0.40
15:5P:206:HIS:CG	15:5P:207:GLY:N	2.90	0.40
18:5Z:36:ASN:OD1	18:5Z:84:ARG:NH2	2.45	0.40
18:6B:36:ASN:OD1	18:6B:84:ARG:NH2	2.45	0.40
18:6C:198:LEU:HD13	18:6C:198:LEU:HA	1.79	0.40
18:6D:128:GLN:CD	18:6D:128:GLN:H	2.17	0.40
20:6F:59:LYS:O	20:6F:297:VAL:HA	2.22	0.40
20:6F:73:GLN:HE22	20:6F:114:ASN:CB	2.34	0.40
20:6F:186:GLN:NE2	20:6F:234:LYS:HD3	2.37	0.40
22:6I:35:PRO:HA	22:6I:38:ALA:HB3	2.02	0.40
22:6J:241:GLU:HG2	22:6J:242:ALA:N	2.37	0.40
22:6L:321:LEU:HD12	22:6L:321:LEU:HA	1.90	0.40
22:6P:122:ALA:HA	22:6P:123:PRO:HD3	1.95	0.40
22:6P:168:THR:HA	22:6P:171:GLU:OE1	2.22	0.40
24:6T:355:LEU:HD12	24:6T:355:LEU:HA	1.82	0.40
24:6U:106:VAL:HG12	24:6U:113:ASN:C	2.42	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:6V:288:ASP:OD1	24:6V:288:ASP:N	2.55	0.40
24:6W:502:LYS:HB3	24:6W:511:ILE:HD12	2.03	0.40
24:6W:541:THR:HG22	24:6W:614:ARG:HH22	1.87	0.40
24:6W:613:LYS:HD2	24:6W:613:LYS:HA	1.85	0.40
24:6Y:452:MET:HE1	24:6Y:528:ARG:HH11	1.86	0.40
24:6Z:92:ASP:N	24:6Z:92:ASP:OD2	2.52	0.40
24:6Z:505:LYS:N	24:6Z:510:GLU:O	2.54	0.40
24:6Z:565:GLN:OE1	24:6Z:602:LEU:HB2	2.21	0.40
25:7C:13:GLU:OE2	25:7C:14:ARG:HD2	2.21	0.40
26:7D:91:HIS:CD2	26:7D:106:ASP:HB2	2.56	0.40
29:7I:5:GLY:H	29:7I:12:LYS:HZ1	1.69	0.40
29:7J:413:ASP:OD1	29:7J:413:ASP:N	2.52	0.40
30:7K:342:LEU:N	30:7K:342:LEU:HD23	2.36	0.40
33:7Q:166:GLY:O	33:7Q:170:THR:HG23	2.21	0.40
35:7T:157:ARG:HG3	36:7V:60:TRP:CH2	2.56	0.40
38:8A:72:ASP:N	38:8A:72:ASP:OD2	2.54	0.40
38:8C:92:GLU:OE2	38:8C:94:LYS:NZ	2.53	0.40
38:8C:228:THR:O	38:8C:228:THR:HG23	2.21	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](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	0A	367/379 (97%)	366 (100%)	1 (0%)	92 97
1	0C	367/379 (97%)	367 (100%)	0	100 100
1	0E	367/379 (97%)	365 (100%)	2 (0%)	88 94

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	0G	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	0I	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	0K	367/379 (97%)	365 (100%)	2 (0%)	88	94
1	0M	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	0O	367/379 (97%)	367 (100%)	0	100	100
1	0Q	367/379 (97%)	367 (100%)	0	100	100
1	0S	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	0U	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	0W	367/379 (97%)	367 (100%)	0	100	100
1	0Y	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	1	122/379 (32%)	118 (97%)	4 (3%)	38	66
1	1A	367/379 (97%)	367 (100%)	0	100	100
1	1C	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	1E	367/379 (97%)	367 (100%)	0	100	100
1	1G	367/379 (97%)	367 (100%)	0	100	100
1	1K	367/379 (97%)	367 (100%)	0	100	100
1	1M	367/379 (97%)	364 (99%)	3 (1%)	81	91
1	1O	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	1Q	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	1S	367/379 (97%)	367 (100%)	0	100	100
1	1U	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	1W	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	2A	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	2C	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	2E	367/379 (97%)	367 (100%)	0	100	100
1	2G	367/379 (97%)	367 (100%)	0	100	100
1	2I	367/379 (97%)	367 (100%)	0	100	100
1	2K	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	2M	367/379 (97%)	367 (100%)	0	100	100
1	2Q	367/379 (97%)	365 (100%)	2 (0%)	88	94
1	2S	367/379 (97%)	365 (100%)	2 (0%)	88	94

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	2U	367/379 (97%)	365 (100%)	2 (0%)	88	94
1	2W	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	2Y	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	3	372/379 (98%)	370 (100%)	2 (0%)	88	94
1	3A	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	3C	367/379 (97%)	365 (100%)	2 (0%)	88	94
1	3G	367/379 (97%)	367 (100%)	0	100	100
1	3I	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	3K	367/379 (97%)	367 (100%)	0	100	100
1	3M	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	3O	367/379 (97%)	365 (100%)	2 (0%)	88	94
1	3Q	367/379 (97%)	367 (100%)	0	100	100
1	3S	367/379 (97%)	367 (100%)	0	100	100
1	5	374/379 (99%)	372 (100%)	2 (0%)	88	94
1	7	375/379 (99%)	373 (100%)	2 (0%)	88	94
1	9	374/379 (99%)	373 (100%)	1 (0%)	92	97
1	A1	371/379 (98%)	370 (100%)	1 (0%)	92	97
1	A3	373/379 (98%)	372 (100%)	1 (0%)	92	97
1	A5	369/379 (97%)	369 (100%)	0	100	100
1	A7	367/379 (97%)	367 (100%)	0	100	100
1	A9	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	B1	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	B3	367/379 (97%)	367 (100%)	0	100	100
1	B5	367/379 (97%)	365 (100%)	2 (0%)	88	94
1	B8	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	C0	367/379 (97%)	367 (100%)	0	100	100
1	C2	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	C4	367/379 (97%)	367 (100%)	0	100	100
1	C6	367/379 (97%)	367 (100%)	0	100	100
1	C8	367/379 (97%)	367 (100%)	0	100	100
1	D0	367/379 (97%)	367 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	D2	367/379 (97%)	367 (100%)	0	100	100
1	D4	367/379 (97%)	365 (100%)	2 (0%)	88	94
1	D6	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	D8	367/379 (97%)	367 (100%)	0	100	100
1	E0	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	E2	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	E4	367/379 (97%)	367 (100%)	0	100	100
1	E6	367/379 (97%)	367 (100%)	0	100	100
1	E8	367/379 (97%)	367 (100%)	0	100	100
1	F0	367/379 (97%)	367 (100%)	0	100	100
1	F2	367/379 (97%)	367 (100%)	0	100	100
1	F6	367/379 (97%)	367 (100%)	0	100	100
1	F8	367/379 (97%)	365 (100%)	2 (0%)	88	94
1	G0	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	G2	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	G4	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	G6	367/379 (97%)	367 (100%)	0	100	100
1	G8	367/379 (97%)	367 (100%)	0	100	100
1	H2	367/379 (97%)	367 (100%)	0	100	100
1	H4	367/379 (97%)	367 (100%)	0	100	100
1	H6	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	H8	367/379 (97%)	365 (100%)	2 (0%)	88	94
1	I0	367/379 (97%)	367 (100%)	0	100	100
1	I2	367/379 (97%)	367 (100%)	0	100	100
1	I4	367/379 (97%)	367 (100%)	0	100	100
1	I8	367/379 (97%)	367 (100%)	0	100	100
1	J0	367/379 (97%)	367 (100%)	0	100	100
1	J2	367/379 (97%)	367 (100%)	0	100	100
1	J4	367/379 (97%)	367 (100%)	0	100	100
1	J6	367/379 (97%)	367 (100%)	0	100	100
1	J8	367/379 (97%)	367 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	K0	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	K4	367/379 (97%)	367 (100%)	0	100	100
1	K6	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	K8	367/379 (97%)	367 (100%)	0	100	100
1	L0	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	L2	367/379 (97%)	367 (100%)	0	100	100
1	L4	367/379 (97%)	367 (100%)	0	100	100
1	L6	367/379 (97%)	367 (100%)	0	100	100
1	M0	367/379 (97%)	367 (100%)	0	100	100
1	M2	367/379 (97%)	367 (100%)	0	100	100
1	M4	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	M6	367/379 (97%)	367 (100%)	0	100	100
1	M8	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	N0	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	N2	367/379 (97%)	367 (100%)	0	100	100
1	N6	367/379 (97%)	367 (100%)	0	100	100
1	N8	367/379 (97%)	367 (100%)	0	100	100
1	O0	367/379 (97%)	367 (100%)	0	100	100
1	O2	367/379 (97%)	365 (100%)	2 (0%)	88	94
1	O4	367/379 (97%)	367 (100%)	0	100	100
1	O6	367/379 (97%)	365 (100%)	2 (0%)	88	94
1	O8	367/379 (97%)	367 (100%)	0	100	100
1	P4	367/379 (97%)	367 (100%)	0	100	100
1	P6	367/379 (97%)	367 (100%)	0	100	100
1	P8	367/379 (97%)	367 (100%)	0	100	100
1	Q0	367/379 (97%)	367 (100%)	0	100	100
1	Q2	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	Q4	367/379 (97%)	367 (100%)	0	100	100
1	Q6	367/379 (97%)	367 (100%)	0	100	100
1	Q8	361/379 (95%)	359 (99%)	2 (1%)	86	94
1	R0	372/379 (98%)	372 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	R2	367/379 (97%)	365 (100%)	2 (0%)	88	94
1	R4	369/379 (97%)	368 (100%)	1 (0%)	92	97
1	R6	367/379 (97%)	367 (100%)	0	100	100
1	R8	370/379 (98%)	370 (100%)	0	100	100
1	S0	367/379 (97%)	365 (100%)	2 (0%)	88	94
1	S2	370/379 (98%)	370 (100%)	0	100	100
1	S4	368/379 (97%)	368 (100%)	0	100	100
1	S6	367/379 (97%)	367 (100%)	0	100	100
1	S8	367/379 (97%)	367 (100%)	0	100	100
1	T0	367/379 (97%)	367 (100%)	0	100	100
1	T2	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	T4	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	T6	367/379 (97%)	364 (99%)	3 (1%)	81	91
1	T8	367/379 (97%)	367 (100%)	0	100	100
1	U2	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	U4	367/379 (97%)	365 (100%)	2 (0%)	88	94
1	U6	367/379 (97%)	367 (100%)	0	100	100
1	U8	369/379 (97%)	367 (100%)	2 (0%)	88	94
1	V0	367/379 (97%)	367 (100%)	0	100	100
1	V2	367/379 (97%)	364 (99%)	3 (1%)	81	91
1	V4	367/379 (97%)	367 (100%)	0	100	100
1	V6	367/379 (97%)	367 (100%)	0	100	100
1	V8	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	W0	367/379 (97%)	367 (100%)	0	100	100
1	W2	367/379 (97%)	367 (100%)	0	100	100
1	W4	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	W6	367/379 (97%)	367 (100%)	0	100	100
1	W8	367/379 (97%)	364 (99%)	3 (1%)	81	91
1	X0	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	X2	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	X4	367/379 (97%)	367 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	X6	367/379 (97%)	367 (100%)	0	100	100
1	X8	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	Y0	367/379 (97%)	367 (100%)	0	100	100
1	Y2	367/379 (97%)	367 (100%)	0	100	100
1	Y4	367/379 (97%)	367 (100%)	0	100	100
1	Y6	367/379 (97%)	365 (100%)	2 (0%)	88	94
1	Y8	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	Z0	367/379 (97%)	367 (100%)	0	100	100
1	Z2	367/379 (97%)	367 (100%)	0	100	100
1	Z4	367/379 (97%)	367 (100%)	0	100	100
1	Z6	367/379 (97%)	366 (100%)	1 (0%)	92	97
1	Z8	367/379 (97%)	367 (100%)	0	100	100
2	0B	359/374 (96%)	359 (100%)	0	100	100
2	0F	359/374 (96%)	358 (100%)	1 (0%)	92	97
2	0H	359/374 (96%)	359 (100%)	0	100	100
2	0J	359/374 (96%)	359 (100%)	0	100	100
2	0L	359/374 (96%)	358 (100%)	1 (0%)	92	97
2	0N	359/374 (96%)	356 (99%)	3 (1%)	81	91
2	0P	359/374 (96%)	358 (100%)	1 (0%)	92	97
2	0R	359/374 (96%)	358 (100%)	1 (0%)	92	97
2	0V	359/374 (96%)	357 (99%)	2 (1%)	86	94
2	0X	359/374 (96%)	358 (100%)	1 (0%)	92	97
2	0Z	359/374 (96%)	357 (99%)	2 (1%)	86	94
2	1B	359/374 (96%)	357 (99%)	2 (1%)	86	94
2	1D	359/374 (96%)	358 (100%)	1 (0%)	92	97
2	1F	359/374 (96%)	359 (100%)	0	100	100
2	1H	359/374 (96%)	356 (99%)	3 (1%)	81	91
2	1L	359/374 (96%)	357 (99%)	2 (1%)	86	94
2	1N	359/374 (96%)	356 (99%)	3 (1%)	81	91
2	1P	359/374 (96%)	358 (100%)	1 (0%)	92	97
2	1R	359/374 (96%)	351 (98%)	8 (2%)	52	75

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	1T	359/374 (96%)	358 (100%)	1 (0%)	92	97
2	1V	359/374 (96%)	355 (99%)	4 (1%)	73	86
2	1X	359/374 (96%)	359 (100%)	0	100	100
2	1Z	359/374 (96%)	357 (99%)	2 (1%)	86	94
2	2	365/374 (98%)	365 (100%)	0	100	100
2	2B	359/374 (96%)	359 (100%)	0	100	100
2	2D	359/374 (96%)	359 (100%)	0	100	100
2	2F	359/374 (96%)	359 (100%)	0	100	100
2	2H	359/374 (96%)	359 (100%)	0	100	100
2	2J	359/374 (96%)	358 (100%)	1 (0%)	92	97
2	2L	359/374 (96%)	358 (100%)	1 (0%)	92	97
2	2N	359/374 (96%)	359 (100%)	0	100	100
2	2P	359/374 (96%)	356 (99%)	3 (1%)	81	91
2	2R	359/374 (96%)	359 (100%)	0	100	100
2	2T	359/374 (96%)	358 (100%)	1 (0%)	92	97
2	2V	359/374 (96%)	358 (100%)	1 (0%)	92	97
2	2X	366/374 (98%)	366 (100%)	0	100	100
2	2Z	359/374 (96%)	356 (99%)	3 (1%)	81	91
2	3B	365/374 (98%)	362 (99%)	3 (1%)	81	91
2	3D	359/374 (96%)	359 (100%)	0	100	100
2	3F	359/374 (96%)	358 (100%)	1 (0%)	92	97
2	3H	359/374 (96%)	359 (100%)	0	100	100
2	3J	359/374 (96%)	359 (100%)	0	100	100
2	3L	359/374 (96%)	359 (100%)	0	100	100
2	3N	359/374 (96%)	359 (100%)	0	100	100
2	3P	359/374 (96%)	359 (100%)	0	100	100
2	3R	366/374 (98%)	366 (100%)	0	100	100
2	3T	359/374 (96%)	358 (100%)	1 (0%)	92	97
2	4	365/374 (98%)	365 (100%)	0	100	100
2	6	365/374 (98%)	365 (100%)	0	100	100
2	8	365/374 (98%)	365 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	A0	365/374 (98%)	365 (100%)	0	100	100
2	A2	365/374 (98%)	363 (100%)	2 (0%)	88	94
2	A4	365/374 (98%)	357 (98%)	8 (2%)	52	75
2	A8	359/374 (96%)	358 (100%)	1 (0%)	92	97
2	B0	359/374 (96%)	358 (100%)	1 (0%)	92	97
2	B2	359/374 (96%)	358 (100%)	1 (0%)	92	97
2	B4	359/374 (96%)	358 (100%)	1 (0%)	92	97
2	B7	359/374 (96%)	357 (99%)	2 (1%)	86	94
2	B9	359/374 (96%)	359 (100%)	0	100	100
2	C1	359/374 (96%)	359 (100%)	0	100	100
2	C5	365/374 (98%)	365 (100%)	0	100	100
2	C7	365/374 (98%)	363 (100%)	2 (0%)	88	94
2	C9	359/374 (96%)	358 (100%)	1 (0%)	92	97
2	D1	359/374 (96%)	357 (99%)	2 (1%)	86	94
2	D3	360/374 (96%)	360 (100%)	0	100	100
2	D5	359/374 (96%)	358 (100%)	1 (0%)	92	97
2	D7	360/374 (96%)	360 (100%)	0	100	100
2	E1	360/374 (96%)	358 (99%)	2 (1%)	86	94
2	E3	359/374 (96%)	359 (100%)	0	100	100
2	E5	359/374 (96%)	357 (99%)	2 (1%)	86	94
2	E7	360/374 (96%)	358 (99%)	2 (1%)	86	94
2	E9	359/374 (96%)	358 (100%)	1 (0%)	92	97
2	F1	359/374 (96%)	356 (99%)	3 (1%)	81	91
2	F3	359/374 (96%)	359 (100%)	0	100	100
2	F5	359/374 (96%)	358 (100%)	1 (0%)	92	97
2	F7	359/374 (96%)	358 (100%)	1 (0%)	92	97
2	F9	365/374 (98%)	365 (100%)	0	100	100
2	G1	365/374 (98%)	362 (99%)	3 (1%)	81	91
2	G3	365/374 (98%)	362 (99%)	3 (1%)	81	91
2	G5	359/374 (96%)	359 (100%)	0	100	100
2	G7	359/374 (96%)	358 (100%)	1 (0%)	92	97

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	G9	359/374 (96%)	359 (100%)	0	100	100
2	H1	359/374 (96%)	358 (100%)	1 (0%)	92	97
2	H3	359/374 (96%)	359 (100%)	0	100	100
2	H5	359/374 (96%)	359 (100%)	0	100	100
2	H7	359/374 (96%)	359 (100%)	0	100	100
2	H9	359/374 (96%)	359 (100%)	0	100	100
2	I1	359/374 (96%)	357 (99%)	2 (1%)	86	94
2	I3	359/374 (96%)	359 (100%)	0	100	100
2	I5	359/374 (96%)	359 (100%)	0	100	100
2	I7	361/374 (96%)	361 (100%)	0	100	100
2	I9	360/374 (96%)	356 (99%)	4 (1%)	73	86
2	J1	359/374 (96%)	359 (100%)	0	100	100
2	J3	360/374 (96%)	359 (100%)	1 (0%)	92	97
2	J5	366/374 (98%)	366 (100%)	0	100	100
2	J7	359/374 (96%)	354 (99%)	5 (1%)	67	83
2	J9	366/374 (98%)	366 (100%)	0	100	100
2	K1	359/374 (96%)	358 (100%)	1 (0%)	92	97
2	K3	359/374 (96%)	358 (100%)	1 (0%)	92	97
2	K5	359/374 (96%)	358 (100%)	1 (0%)	92	97
2	K7	359/374 (96%)	358 (100%)	1 (0%)	92	97
2	K9	359/374 (96%)	357 (99%)	2 (1%)	86	94
2	L1	359/374 (96%)	358 (100%)	1 (0%)	92	97
2	L3	359/374 (96%)	355 (99%)	4 (1%)	73	86
2	L5	359/374 (96%)	359 (100%)	0	100	100
2	L7	359/374 (96%)	357 (99%)	2 (1%)	86	94
2	L9	359/374 (96%)	359 (100%)	0	100	100
2	M1	359/374 (96%)	359 (100%)	0	100	100
2	M3	365/374 (98%)	361 (99%)	4 (1%)	73	86
2	M5	359/374 (96%)	358 (100%)	1 (0%)	92	97
2	M7	365/374 (98%)	363 (100%)	2 (0%)	88	94
2	M9	366/374 (98%)	365 (100%)	1 (0%)	92	97

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	N1	360/374 (96%)	360 (100%)	0	100	100
2	N3	359/374 (96%)	356 (99%)	3 (1%)	81	91
2	N5	359/374 (96%)	357 (99%)	2 (1%)	86	94
2	N7	359/374 (96%)	356 (99%)	3 (1%)	81	91
2	N9	359/374 (96%)	358 (100%)	1 (0%)	92	97
2	O1	359/374 (96%)	357 (99%)	2 (1%)	86	94
2	O3	359/374 (96%)	357 (99%)	2 (1%)	86	94
2	O5	359/374 (96%)	356 (99%)	3 (1%)	81	91
2	O7	361/374 (96%)	360 (100%)	1 (0%)	92	97
2	O9	359/374 (96%)	359 (100%)	0	100	100
2	P3	359/374 (96%)	359 (100%)	0	100	100
2	P5	365/374 (98%)	362 (99%)	3 (1%)	81	91
2	P7	359/374 (96%)	357 (99%)	2 (1%)	86	94
2	P9	365/374 (98%)	365 (100%)	0	100	100
2	Q1	359/374 (96%)	359 (100%)	0	100	100
2	Q3	359/374 (96%)	357 (99%)	2 (1%)	86	94
2	Q5	359/374 (96%)	359 (100%)	0	100	100
2	Q9	359/374 (96%)	359 (100%)	0	100	100
2	R1	359/374 (96%)	357 (99%)	2 (1%)	86	94
2	R3	360/374 (96%)	360 (100%)	0	100	100
2	R5	365/374 (98%)	363 (100%)	2 (0%)	88	94
2	R7	359/374 (96%)	359 (100%)	0	100	100
2	R9	365/374 (98%)	365 (100%)	0	100	100
2	S1	361/374 (96%)	358 (99%)	3 (1%)	81	91
2	S5	359/374 (96%)	358 (100%)	1 (0%)	92	97
2	S7	365/374 (98%)	364 (100%)	1 (0%)	92	97
2	S9	359/374 (96%)	355 (99%)	4 (1%)	73	86
2	T1	359/374 (96%)	359 (100%)	0	100	100
2	T3	359/374 (96%)	354 (99%)	5 (1%)	67	83
2	T5	359/374 (96%)	357 (99%)	2 (1%)	86	94
2	T7	359/374 (96%)	357 (99%)	2 (1%)	86	94

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	U1	359/374 (96%)	359 (100%)	0	100	100
2	U3	359/374 (96%)	359 (100%)	0	100	100
2	U5	359/374 (96%)	359 (100%)	0	100	100
2	U7	359/374 (96%)	357 (99%)	2 (1%)	86	94
2	U9	359/374 (96%)	358 (100%)	1 (0%)	92	97
2	V1	359/374 (96%)	357 (99%)	2 (1%)	86	94
2	V3	359/374 (96%)	355 (99%)	4 (1%)	73	86
2	V7	359/374 (96%)	359 (100%)	0	100	100
2	V9	359/374 (96%)	359 (100%)	0	100	100
2	W1	359/374 (96%)	357 (99%)	2 (1%)	86	94
2	W3	359/374 (96%)	358 (100%)	1 (0%)	92	97
2	W5	359/374 (96%)	358 (100%)	1 (0%)	92	97
2	W7	359/374 (96%)	359 (100%)	0	100	100
2	W9	359/374 (96%)	350 (98%)	9 (2%)	47	72
2	X3	359/374 (96%)	359 (100%)	0	100	100
2	X5	359/374 (96%)	357 (99%)	2 (1%)	86	94
2	X7	359/374 (96%)	357 (99%)	2 (1%)	86	94
2	X9	359/374 (96%)	356 (99%)	3 (1%)	81	91
2	Y1	359/374 (96%)	358 (100%)	1 (0%)	92	97
2	Y3	359/374 (96%)	357 (99%)	2 (1%)	86	94
2	Y5	359/374 (96%)	357 (99%)	2 (1%)	86	94
2	Y9	359/374 (96%)	359 (100%)	0	100	100
2	Z1	359/374 (96%)	359 (100%)	0	100	100
2	Z3	359/374 (96%)	359 (100%)	0	100	100
2	Z5	359/374 (96%)	357 (99%)	2 (1%)	86	94
2	Z7	359/374 (96%)	359 (100%)	0	100	100
2	Z9	359/374 (96%)	359 (100%)	0	100	100
3	3V	251/258 (97%)	229 (91%)	22 (9%)	10	33
3	3X	251/258 (97%)	229 (91%)	22 (9%)	10	33
3	3Z	251/258 (97%)	229 (91%)	22 (9%)	10	33
3	4B	251/258 (97%)	229 (91%)	22 (9%)	10	33

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	4D	251/258 (97%)	229 (91%)	22 (9%)	10	33
3	4F	251/258 (97%)	229 (91%)	22 (9%)	10	33
3	4H	251/258 (97%)	229 (91%)	22 (9%)	10	33
3	4J	178/258 (69%)	178 (100%)	0	100	100
4	3W	170/176 (97%)	159 (94%)	11 (6%)	17	46
4	3Y	170/176 (97%)	159 (94%)	11 (6%)	17	46
4	4A	170/176 (97%)	159 (94%)	11 (6%)	17	46
4	4C	170/176 (97%)	159 (94%)	11 (6%)	17	46
4	4E	170/176 (97%)	159 (94%)	11 (6%)	17	46
4	4G	170/176 (97%)	159 (94%)	11 (6%)	17	46
4	4I	170/176 (97%)	159 (94%)	11 (6%)	17	46
5	4L	191/399 (48%)	190 (100%)	1 (0%)	88	94
5	4M	267/399 (67%)	266 (100%)	1 (0%)	91	95
6	4N	46/422 (11%)	45 (98%)	1 (2%)	52	75
6	4O	403/422 (96%)	402 (100%)	1 (0%)	93	98
6	4P	159/422 (38%)	159 (100%)	0	100	100
7	4Q	54/306 (18%)	54 (100%)	0	100	100
7	4R	305/306 (100%)	300 (98%)	5 (2%)	62	81
7	4S	40/306 (13%)	38 (95%)	2 (5%)	24	54
7	4T	160/306 (52%)	159 (99%)	1 (1%)	86	94
7	4U	234/306 (76%)	234 (100%)	0	100	100
8	4V	63/362 (17%)	63 (100%)	0	100	100
8	4W	261/362 (72%)	258 (99%)	3 (1%)	73	86
8	4X	49/362 (14%)	48 (98%)	1 (2%)	55	77
9	4Y	98/374 (26%)	98 (100%)	0	100	100
9	4Z	309/374 (83%)	309 (100%)	0	100	100
10	5A	194/433 (45%)	193 (100%)	1 (0%)	88	94
10	5B	220/433 (51%)	218 (99%)	2 (1%)	78	90
10	5C	323/433 (75%)	320 (99%)	3 (1%)	78	90
10	5D	97/433 (22%)	97 (100%)	0	100	100
11	5E	211/223 (95%)	209 (99%)	2 (1%)	78	90

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
12	5F	332/340 (98%)	328 (99%)	4 (1%)	71	85
12	5G	127/340 (37%)	126 (99%)	1 (1%)	81	91
12	7B	83/340 (24%)	82 (99%)	1 (1%)	71	85
13	5H	119/121 (98%)	100 (84%)	19 (16%)	2	10
13	5I	119/121 (98%)	100 (84%)	19 (16%)	2	10
13	5J	119/121 (98%)	100 (84%)	19 (16%)	2	10
13	5K	119/121 (98%)	100 (84%)	19 (16%)	2	10
14	5L	511/517 (99%)	450 (88%)	61 (12%)	5	19
14	5M	511/517 (99%)	453 (89%)	58 (11%)	5	21
14	5N	511/517 (99%)	450 (88%)	61 (12%)	5	19
15	5O	307/309 (99%)	262 (85%)	45 (15%)	3	12
15	5P	307/309 (99%)	291 (95%)	16 (5%)	23	53
16	5Q	162/167 (97%)	160 (99%)	2 (1%)	71	85
17	5R	15/206 (7%)	15 (100%)	0	100	100
17	5S	169/206 (82%)	141 (83%)	28 (17%)	2	8
17	5T	168/206 (82%)	137 (82%)	31 (18%)	1	5
17	5U	169/206 (82%)	139 (82%)	30 (18%)	2	6
17	5V	94/206 (46%)	92 (98%)	2 (2%)	53	76
18	5X	202/210 (96%)	169 (84%)	33 (16%)	2	9
18	5Y	202/210 (96%)	170 (84%)	32 (16%)	2	10
18	5Z	202/210 (96%)	170 (84%)	32 (16%)	2	10
18	6A	202/210 (96%)	170 (84%)	32 (16%)	2	10
18	6B	202/210 (96%)	170 (84%)	32 (16%)	2	10
18	6C	202/210 (96%)	170 (84%)	32 (16%)	2	10
18	6D	202/210 (96%)	170 (84%)	32 (16%)	2	10
19	6E	211/222 (95%)	209 (99%)	2 (1%)	78	90
20	6F	310/314 (99%)	308 (99%)	2 (1%)	86	94
21	6G	150/171 (88%)	150 (100%)	0	100	100
21	6H	157/171 (92%)	157 (100%)	0	100	100
22	6I	285/303 (94%)	283 (99%)	2 (1%)	84	92
22	6J	285/303 (94%)	284 (100%)	1 (0%)	91	95

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
22	6K	285/303 (94%)	283 (99%)	2 (1%)	84	92
22	6L	285/303 (94%)	284 (100%)	1 (0%)	91	95
22	6M	285/303 (94%)	282 (99%)	3 (1%)	73	86
22	6N	285/303 (94%)	284 (100%)	1 (0%)	91	95
22	6O	285/303 (94%)	283 (99%)	2 (1%)	84	92
22	6P	257/303 (85%)	254 (99%)	3 (1%)	71	85
23	6Q	76/78 (97%)	68 (90%)	8 (10%)	7	25
23	6R	76/78 (97%)	69 (91%)	7 (9%)	9	31
23	6S	76/78 (97%)	71 (93%)	5 (7%)	16	46
24	6T	500/549 (91%)	495 (99%)	5 (1%)	76	88
24	6U	503/549 (92%)	496 (99%)	7 (1%)	67	83
24	6V	498/549 (91%)	493 (99%)	5 (1%)	76	88
24	6W	502/549 (91%)	494 (98%)	8 (2%)	62	81
24	6X	505/549 (92%)	495 (98%)	10 (2%)	55	77
24	6Y	499/549 (91%)	492 (99%)	7 (1%)	67	83
24	6Z	500/549 (91%)	495 (99%)	5 (1%)	76	88
24	7A	162/549 (30%)	161 (99%)	1 (1%)	86	94
25	7C	84/95 (88%)	84 (100%)	0	100	100
26	7D	112/122 (92%)	97 (87%)	15 (13%)	4	15
26	7E	112/122 (92%)	96 (86%)	16 (14%)	3	13
26	7F	112/122 (92%)	96 (86%)	16 (14%)	3	13
27	7G	179/186 (96%)	179 (100%)	0	100	100
28	7H	110/347 (32%)	99 (90%)	11 (10%)	7	27
28	7X	110/347 (32%)	97 (88%)	13 (12%)	5	19
29	7I	177/371 (48%)	176 (99%)	1 (1%)	86	94
29	7J	280/371 (76%)	278 (99%)	2 (1%)	84	92
30	7K	332/350 (95%)	329 (99%)	3 (1%)	78	90
30	7L	132/350 (38%)	132 (100%)	0	100	100
31	7M	71/115 (62%)	70 (99%)	1 (1%)	67	83
31	7N	104/115 (90%)	104 (100%)	0	100	100
32	7O	47/191 (25%)	47 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
32	7P	148/191 (78%)	148 (100%)	0	100	100
33	7Q	64/165 (39%)	64 (100%)	0	100	100
34	7R	172/618 (28%)	171 (99%)	1 (1%)	86	94
34	7S	143/618 (23%)	142 (99%)	1 (1%)	84	92
35	7T	186/462 (40%)	184 (99%)	2 (1%)	73	86
35	7U	157/462 (34%)	157 (100%)	0	100	100
36	7V	82/162 (51%)	71 (87%)	11 (13%)	4	15
36	7W	82/162 (51%)	70 (85%)	12 (15%)	3	12
37	7Y	209/267 (78%)	205 (98%)	4 (2%)	57	78
38	7Z	31/206 (15%)	31 (100%)	0	100	100
38	8A	179/206 (87%)	174 (97%)	5 (3%)	43	70
38	8B	182/206 (88%)	175 (96%)	7 (4%)	33	61
38	8C	182/206 (88%)	172 (94%)	10 (6%)	21	51
38	8D	141/206 (68%)	128 (91%)	13 (9%)	9	31
All	All	146455/160298 (91%)	145005 (99%)	1450 (1%)	77	88

All (1450) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	1	291	GLN
1	1	292	GLN
1	1	293	MET
1	1	324	LYS
1	3	274	THR
1	3	297	LYS
1	5	2	ARG
1	5	221	THR
1	7	401	GLU
1	7	404	ASP
1	9	306	ARG
1	A1	297	LYS
2	A2	40	LYS
2	A2	163	LYS
1	A3	297	LYS
2	A4	40	LYS
2	A4	56	THR
2	A4	84	ARG

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Mol	Chain	Res	Type
2	A4	85	GLN
2	A4	90	GLU
2	A4	285	GLN
2	A4	305	CYS
2	A4	326	LYS
2	A8	326	LYS
1	A9	306	ARG
2	B0	349	THR
1	B1	406	MET
2	B2	326	LYS
2	B4	290	GLU
1	B5	306	ARG
1	B5	362	LYS
2	B7	2	ARG
2	B7	163	LYS
1	B8	362	LYS
1	C2	359	LYS
2	C7	203	MET
2	C7	349	THR
2	C9	62	VAL
2	D1	90	GLU
2	D1	326	LYS
1	D4	33	THR
1	D4	67	ASP
2	D5	276	ILE
1	D6	379	LYS
1	E0	199	CYS
2	E1	170	THR
2	E1	221	ARG
1	E2	8	GLN
2	E5	282	TYR
2	E5	326	LYS
2	E7	121	ARG
2	E7	283	HIS
2	E9	121	ARG
2	F1	313	MET
2	F1	326	LYS
2	F1	346	TRP
2	F5	2	ARG
2	F7	36	MET
1	F8	406	MET
1	F8	415	MET

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Mol	Chain	Res	Type
1	G0	391	ARG
2	G1	344	VAL
2	G1	345	ASP
2	G1	347	CYS
1	G2	391	ARG
2	G3	39	ASP
2	G3	46	ASP
2	G3	85	GLN
1	G4	406	MET
2	G7	326	LYS
2	H1	326	LYS
1	H6	306	ARG
1	H8	306	ARG
1	H8	406	MET
2	I1	56	THR
2	I1	121	ARG
2	I9	56	THR
2	I9	121	ARG
2	I9	282	TYR
2	I9	326	LYS
2	J3	56	THR
2	J7	2	ARG
2	J7	56	THR
2	J7	121	ARG
2	J7	282	TYR
2	J7	284	GLU
1	K0	1	MET
2	K1	170	THR
2	K3	217	LEU
2	K5	285	GLN
1	K6	406	MET
2	K7	121	ARG
2	K9	62	VAL
2	K9	90	GLU
1	L0	406	MET
2	L1	90	GLU
2	L3	90	GLU
2	L3	91	GLN
2	L3	121	ARG
2	L3	339	ARG
2	L7	221	ARG
2	L7	430	LYS

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Mol	Chain	Res	Type
2	M3	42	ILE
2	M3	46	ASP
2	M3	49	PHE
2	M3	221	ARG
1	M4	324	LYS
2	M5	121	ARG
2	M7	221	ARG
2	M7	285	GLN
1	M8	406	MET
2	M9	46	ASP
1	N0	92	PHE
2	N3	84	ARG
2	N3	227	LEU
2	N3	363	VAL
2	N5	121	ARG
2	N5	326	LYS
2	N7	2	ARG
2	N7	90	GLU
2	N7	121	ARG
2	N9	163	LYS
2	O1	56	THR
2	O1	85	GLN
1	O2	282	ARG
1	O2	391	ARG
2	O3	90	GLU
2	O3	346	TRP
2	O5	121	ARG
2	O5	123	ARG
2	O5	163	LYS
1	O6	281	TYR
1	O6	406	MET
2	O7	347	CYS
2	P5	36	MET
2	P5	42	ILE
2	P5	62	VAL
2	P7	279	GLU
2	P7	341	ILE
1	Q2	297	LYS
2	Q3	56	THR
2	Q3	62	VAL
1	Q8	359	LYS
1	Q8	406	MET

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Mol	Chain	Res	Type
2	R1	62	VAL
2	R1	90	GLU
1	R2	396	HIS
1	R2	401	GLU
1	R4	391	ARG
2	R5	2	ARG
2	R5	56	THR
1	S0	91	VAL
1	S0	274	THR
2	S1	56	THR
2	S1	62	VAL
2	S1	283	HIS
2	S5	326	LYS
2	S7	415	GLU
2	S9	326	LYS
2	S9	339	ARG
2	S9	411	GLU
2	S9	417	GLU
1	T2	1	MET
2	T3	56	THR
2	T3	62	VAL
2	T3	88	HIS
2	T3	90	GLU
2	T3	326	LYS
1	T4	166	THR
2	T5	56	THR
2	T5	85	GLN
1	T6	51	PHE
1	T6	88	ASP
1	T6	91	VAL
2	T7	2	ARG
2	T7	326	LYS
1	U2	282	ARG
1	U4	263	LEU
1	U4	406	MET
2	U7	56	THR
2	U7	121	ARG
1	U8	237	THR
1	U8	282	ARG
2	U9	90	GLU
2	V1	56	THR
2	V1	86	LEU

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Mol	Chain	Res	Type
1	V2	67	ASP
1	V2	166	THR
1	V2	282	ARG
2	V3	56	THR
2	V3	120	ASP
2	V3	121	ARG
2	V3	163	LYS
1	V8	67	ASP
2	W1	60	LYS
2	W1	90	GLU
2	W3	56	THR
1	W4	53	GLU
2	W5	339	ARG
1	W8	58	ARG
1	W8	342	VAL
1	W8	344	TRP
2	W9	5	ILE
2	W9	14	ILE
2	W9	69	ASP
2	W9	70	LEU
2	W9	74	VAL
2	W9	76	ASP
2	W9	83	TYR
2	W9	105	ARG
2	W9	284	GLU
1	X0	67	ASP
1	X2	67	ASP
2	X5	297	GLU
2	X5	430	LYS
2	X7	282	TYR
2	X7	326	LYS
1	X8	406	MET
2	X9	279	GLU
2	X9	284	GLU
2	X9	286	LEU
2	Y1	339	ARG
2	Y3	283	HIS
2	Y3	327	ASP
2	Y5	157	LEU
2	Y5	159	VAL
1	Y6	52	ASN
1	Y6	58	ARG

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Mol	Chain	Res	Type
1	Y8	324	LYS
2	Z5	343	PHE
2	Z5	346	TRP
1	Z6	406	MET
1	0A	406	MET
1	0E	306	ARG
1	0E	391	ARG
2	0F	346	TRP
1	0G	406	MET
1	0I	406	MET
1	0K	388	MET
1	0K	415	MET
2	0L	344	VAL
1	0M	415	MET
2	0N	2	ARG
2	0N	346	TRP
2	0N	347	CYS
2	0P	344	VAL
2	0R	5	ILE
1	0S	154	LYS
1	0U	306	ARG
2	0V	346	TRP
2	0V	347	CYS
2	0X	326	LYS
1	0Y	59	TYR
2	0Z	56	THR
2	0Z	326	LYS
2	1B	326	LYS
2	1B	347	CYS
1	1C	396	HIS
2	1D	326	LYS
2	1H	326	LYS
2	1H	344	VAL
2	1H	347	CYS
2	1L	56	THR
2	1L	121	ARG
1	1M	297	LYS
1	1M	306	ARG
1	1M	320	ARG
2	1N	56	THR
2	1N	85	GLN
2	1N	346	TRP

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Mol	Chain	Res	Type
1	1O	306	ARG
2	1P	284	GLU
1	1Q	396	HIS
2	1R	55	GLU
2	1R	56	THR
2	1R	90	GLU
2	1R	120	ASP
2	1R	121	ARG
2	1R	344	VAL
2	1R	346	TRP
2	1R	347	CYS
2	1T	326	LYS
1	1U	306	ARG
2	1V	56	THR
2	1V	121	ARG
2	1V	282	TYR
2	1V	283	HIS
1	1W	306	ARG
2	1Z	92	LEU
2	1Z	326	LYS
1	2A	406	MET
1	2C	406	MET
2	2J	56	THR
1	2K	406	MET
2	2L	282	TYR
2	2P	2	ARG
2	2P	279	GLU
2	2P	283	HIS
1	2Q	276	ARG
1	2Q	406	MET
1	2S	77	ARG
1	2S	276	ARG
2	2T	430	LYS
1	2U	58	ARG
1	2U	406	MET
2	2V	326	LYS
1	2W	58	ARG
1	2Y	58	ARG
2	2Z	56	THR
2	2Z	121	ARG
2	2Z	339	ARG
1	3A	58	ARG

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Mol	Chain	Res	Type
2	3B	56	THR
2	3B	121	ARG
2	3B	276	ILE
1	3C	47	ILE
1	3C	53	GLU
2	3F	316	CYS
1	3I	52	ASN
1	3M	52	ASN
1	3O	52	ASN
1	3O	406	MET
2	3T	221	ARG
3	3V	4	ASP
3	3V	11	THR
3	3V	12	SER
3	3V	22	LYS
3	3V	38	THR
3	3V	53	ASP
3	3V	56	LYS
3	3V	79	THR
3	3V	88	GLU
3	3V	93	LYS
3	3V	103	SER
3	3V	111	LYS
3	3V	143	ILE
3	3V	152	LEU
3	3V	168	THR
3	3V	170	GLU
3	3V	182	ASP
3	3V	204	THR
3	3V	208	THR
3	3V	231	VAL
3	3V	236	VAL
3	3V	288	ASP
4	3W	12	SER
4	3W	30	SER
4	3W	45	SER
4	3W	55	SER
4	3W	56	THR
4	3W	99	VAL
4	3W	140	THR
4	3W	162	ILE
4	3W	168	SER

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Mol	Chain	Res	Type
4	3W	171	LEU
4	3W	173	SER
3	3X	4	ASP
3	3X	11	THR
3	3X	12	SER
3	3X	22	LYS
3	3X	38	THR
3	3X	53	ASP
3	3X	56	LYS
3	3X	79	THR
3	3X	88	GLU
3	3X	93	LYS
3	3X	103	SER
3	3X	111	LYS
3	3X	143	ILE
3	3X	152	LEU
3	3X	168	THR
3	3X	170	GLU
3	3X	182	ASP
3	3X	204	THR
3	3X	208	THR
3	3X	231	VAL
3	3X	236	VAL
3	3X	288	ASP
4	3Y	12	SER
4	3Y	30	SER
4	3Y	45	SER
4	3Y	55	SER
4	3Y	56	THR
4	3Y	99	VAL
4	3Y	140	THR
4	3Y	162	ILE
4	3Y	168	SER
4	3Y	171	LEU
4	3Y	173	SER
3	3Z	4	ASP
3	3Z	11	THR
3	3Z	12	SER
3	3Z	22	LYS
3	3Z	38	THR
3	3Z	53	ASP
3	3Z	56	LYS

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Mol	Chain	Res	Type
3	3Z	79	THR
3	3Z	88	GLU
3	3Z	93	LYS
3	3Z	103	SER
3	3Z	111	LYS
3	3Z	143	ILE
3	3Z	152	LEU
3	3Z	168	THR
3	3Z	170	GLU
3	3Z	182	ASP
3	3Z	204	THR
3	3Z	208	THR
3	3Z	231	VAL
3	3Z	236	VAL
3	3Z	288	ASP
4	4A	12	SER
4	4A	30	SER
4	4A	45	SER
4	4A	55	SER
4	4A	56	THR
4	4A	99	VAL
4	4A	140	THR
4	4A	162	ILE
4	4A	168	SER
4	4A	171	LEU
4	4A	173	SER
3	4B	4	ASP
3	4B	11	THR
3	4B	12	SER
3	4B	22	LYS
3	4B	38	THR
3	4B	53	ASP
3	4B	56	LYS
3	4B	79	THR
3	4B	88	GLU
3	4B	93	LYS
3	4B	103	SER
3	4B	111	LYS
3	4B	143	ILE
3	4B	152	LEU
3	4B	168	THR
3	4B	170	GLU

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Mol	Chain	Res	Type
3	4B	182	ASP
3	4B	204	THR
3	4B	208	THR
3	4B	231	VAL
3	4B	236	VAL
3	4B	288	ASP
4	4C	12	SER
4	4C	30	SER
4	4C	45	SER
4	4C	55	SER
4	4C	56	THR
4	4C	99	VAL
4	4C	140	THR
4	4C	162	ILE
4	4C	168	SER
4	4C	171	LEU
4	4C	173	SER
3	4D	4	ASP
3	4D	11	THR
3	4D	12	SER
3	4D	22	LYS
3	4D	38	THR
3	4D	53	ASP
3	4D	56	LYS
3	4D	79	THR
3	4D	88	GLU
3	4D	93	LYS
3	4D	103	SER
3	4D	111	LYS
3	4D	143	ILE
3	4D	152	LEU
3	4D	168	THR
3	4D	170	GLU
3	4D	182	ASP
3	4D	204	THR
3	4D	208	THR
3	4D	231	VAL
3	4D	236	VAL
3	4D	288	ASP
4	4E	12	SER
4	4E	30	SER
4	4E	45	SER

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Mol	Chain	Res	Type
4	4E	55	SER
4	4E	56	THR
4	4E	99	VAL
4	4E	140	THR
4	4E	162	ILE
4	4E	168	SER
4	4E	171	LEU
4	4E	173	SER
3	4F	4	ASP
3	4F	11	THR
3	4F	12	SER
3	4F	22	LYS
3	4F	38	THR
3	4F	53	ASP
3	4F	56	LYS
3	4F	79	THR
3	4F	88	GLU
3	4F	93	LYS
3	4F	103	SER
3	4F	111	LYS
3	4F	143	ILE
3	4F	152	LEU
3	4F	168	THR
3	4F	170	GLU
3	4F	182	ASP
3	4F	204	THR
3	4F	208	THR
3	4F	231	VAL
3	4F	236	VAL
3	4F	288	ASP
4	4G	12	SER
4	4G	30	SER
4	4G	45	SER
4	4G	55	SER
4	4G	56	THR
4	4G	99	VAL
4	4G	140	THR
4	4G	162	ILE
4	4G	168	SER
4	4G	171	LEU
4	4G	173	SER
3	4H	4	ASP

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Mol	Chain	Res	Type
3	4H	11	THR
3	4H	12	SER
3	4H	22	LYS
3	4H	38	THR
3	4H	53	ASP
3	4H	56	LYS
3	4H	79	THR
3	4H	88	GLU
3	4H	93	LYS
3	4H	103	SER
3	4H	111	LYS
3	4H	143	ILE
3	4H	152	LEU
3	4H	168	THR
3	4H	170	GLU
3	4H	182	ASP
3	4H	204	THR
3	4H	208	THR
3	4H	231	VAL
3	4H	236	VAL
3	4H	288	ASP
4	4I	12	SER
4	4I	30	SER
4	4I	45	SER
4	4I	55	SER
4	4I	56	THR
4	4I	99	VAL
4	4I	140	THR
4	4I	162	ILE
4	4I	168	SER
4	4I	171	LEU
4	4I	173	SER
5	4L	469	THR
5	4M	146	ARG
6	4N	475	ARG
6	4O	358	LYS
7	4R	12	ASP
7	4R	14	GLU
7	4R	58	LEU
7	4R	98	ARG
7	4R	301	ARG
7	4S	3	ARG

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Mol	Chain	Res	Type
7	4S	11	GLU
7	4T	209	ARG
8	4W	461	VAL
8	4W	463	THR
8	4W	466	ARG
8	4X	98	MET
10	5A	338	LYS
10	5B	90	LYS
10	5B	260	LYS
10	5C	230	ARG
10	5C	429	LYS
10	5C	493	GLU
11	5E	110	GLN
11	5E	112	ARG
12	5F	43	HIS
12	5F	44	ILE
12	5F	58	ARG
12	5F	199	LYS
12	5G	283	LYS
13	5H	3	ARG
13	5H	28	ASP
13	5H	31	GLN
13	5H	33	ILE
13	5H	37	THR
13	5H	56	ASP
13	5H	70	LYS
13	5H	76	THR
13	5H	78	THR
13	5H	79	THR
13	5H	84	ASP
13	5H	85	SER
13	5H	92	GLU
13	5H	99	ASN
13	5H	100	MET
13	5H	103	THR
13	5H	120	THR
13	5H	124	VAL
13	5H	126	VAL
13	5I	3	ARG
13	5I	28	ASP
13	5I	31	GLN
13	5I	33	ILE

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Mol	Chain	Res	Type
13	5I	37	THR
13	5I	56	ASP
13	5I	70	LYS
13	5I	76	THR
13	5I	78	THR
13	5I	79	THR
13	5I	84	ASP
13	5I	85	SER
13	5I	92	GLU
13	5I	99	ASN
13	5I	100	MET
13	5I	103	THR
13	5I	120	THR
13	5I	124	VAL
13	5I	126	VAL
13	5J	3	ARG
13	5J	28	ASP
13	5J	31	GLN
13	5J	33	ILE
13	5J	37	THR
13	5J	56	ASP
13	5J	70	LYS
13	5J	76	THR
13	5J	78	THR
13	5J	79	THR
13	5J	84	ASP
13	5J	85	SER
13	5J	92	GLU
13	5J	99	ASN
13	5J	100	MET
13	5J	103	THR
13	5J	120	THR
13	5J	124	VAL
13	5J	126	VAL
13	5K	3	ARG
13	5K	28	ASP
13	5K	31	GLN
13	5K	33	ILE
13	5K	37	THR
13	5K	56	ASP
13	5K	70	LYS
13	5K	76	THR

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Mol	Chain	Res	Type
13	5K	78	THR
13	5K	79	THR
13	5K	84	ASP
13	5K	85	SER
13	5K	92	GLU
13	5K	99	ASN
13	5K	100	MET
13	5K	103	THR
13	5K	120	THR
13	5K	124	VAL
13	5K	126	VAL
14	5L	9	SER
14	5L	10	VAL
14	5L	11	ILE
14	5L	18	GLU
14	5L	59	VAL
14	5L	91	GLU
14	5L	95	LEU
14	5L	104	VAL
14	5L	106	VAL
14	5L	116	ARG
14	5L	121	LEU
14	5L	126	ASP
14	5L	127	ASN
14	5L	147	THR
14	5L	153	VAL
14	5L	158	ASN
14	5L	164	ILE
14	5L	180	ASN
14	5L	186	THR
14	5L	201	VAL
14	5L	214	THR
14	5L	227	LEU
14	5L	228	PHE
14	5L	245	THR
14	5L	272	SER
14	5L	282	MET
14	5L	302	MET
14	5L	322	THR
14	5L	331	LYS
14	5L	333	GLU
14	5L	337	THR

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Mol	Chain	Res	Type
14	5L	350	ASN
14	5L	361	THR
14	5L	366	LEU
14	5L	370	THR
14	5L	371	THR
14	5L	383	LEU
14	5L	415	LYS
14	5L	421	ASN
14	5L	429	THR
14	5L	431	ILE
14	5L	433	SER
14	5L	434	THR
14	5L	445	GLU
14	5L	456	ARG
14	5L	457	THR
14	5L	458	SER
14	5L	460	THR
14	5L	464	SER
14	5L	467	ASP
14	5L	477	ILE
14	5L	494	ILE
14	5L	505	THR
14	5L	526	VAL
14	5L	530	THR
14	5L	540	TYR
14	5L	541	ASP
14	5L	554	ASP
14	5L	561	VAL
14	5L	604	THR
14	5L	619	ILE
14	5M	9	SER
14	5M	10	VAL
14	5M	11	ILE
14	5M	18	GLU
14	5M	59	VAL
14	5M	91	GLU
14	5M	95	LEU
14	5M	104	VAL
14	5M	106	VAL
14	5M	112	SER
14	5M	121	LEU
14	5M	126	ASP

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Mol	Chain	Res	Type
14	5M	127	ASN
14	5M	147	THR
14	5M	153	VAL
14	5M	158	ASN
14	5M	164	ILE
14	5M	180	ASN
14	5M	186	THR
14	5M	201	VAL
14	5M	214	THR
14	5M	224	GLU
14	5M	228	PHE
14	5M	245	THR
14	5M	272	SER
14	5M	282	MET
14	5M	302	MET
14	5M	322	THR
14	5M	331	LYS
14	5M	333	GLU
14	5M	337	THR
14	5M	350	ASN
14	5M	361	THR
14	5M	366	LEU
14	5M	370	THR
14	5M	371	THR
14	5M	383	LEU
14	5M	421	ASN
14	5M	429	THR
14	5M	431	ILE
14	5M	433	SER
14	5M	434	THR
14	5M	445	GLU
14	5M	456	ARG
14	5M	457	THR
14	5M	458	SER
14	5M	460	THR
14	5M	464	SER
14	5M	467	ASP
14	5M	477	ILE
14	5M	505	THR
14	5M	512	PHE
14	5M	526	VAL
14	5M	530	THR

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Mol	Chain	Res	Type
14	5M	554	ASP
14	5M	561	VAL
14	5M	604	THR
14	5M	619	ILE
14	5N	9	SER
14	5N	10	VAL
14	5N	11	ILE
14	5N	18	GLU
14	5N	59	VAL
14	5N	91	GLU
14	5N	95	LEU
14	5N	104	VAL
14	5N	106	VAL
14	5N	112	SER
14	5N	121	LEU
14	5N	126	ASP
14	5N	127	ASN
14	5N	147	THR
14	5N	153	VAL
14	5N	158	ASN
14	5N	164	ILE
14	5N	180	ASN
14	5N	187	ASP
14	5N	192	THR
14	5N	201	VAL
14	5N	214	THR
14	5N	225	ARG
14	5N	226	VAL
14	5N	245	THR
14	5N	272	SER
14	5N	282	MET
14	5N	302	MET
14	5N	322	THR
14	5N	333	GLU
14	5N	337	THR
14	5N	350	ASN
14	5N	361	THR
14	5N	366	LEU
14	5N	370	THR
14	5N	371	THR
14	5N	383	LEU
14	5N	415	LYS

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Mol	Chain	Res	Type
14	5N	421	ASN
14	5N	429	THR
14	5N	431	ILE
14	5N	433	SER
14	5N	434	THR
14	5N	445	GLU
14	5N	456	ARG
14	5N	457	THR
14	5N	458	SER
14	5N	460	THR
14	5N	464	SER
14	5N	467	ASP
14	5N	477	ILE
14	5N	505	THR
14	5N	511	THR
14	5N	512	PHE
14	5N	526	VAL
14	5N	530	THR
14	5N	554	ASP
14	5N	557	ASN
14	5N	561	VAL
14	5N	604	THR
14	5N	619	ILE
15	5O	4	ASN
15	5O	14	LEU
15	5O	15	ASP
15	5O	23	LYS
15	5O	29	TYR
15	5O	34	GLU
15	5O	35	VAL
15	5O	39	ASP
15	5O	43	ARG
15	5O	49	ARG
15	5O	55	LEU
15	5O	56	LYS
15	5O	59	LEU
15	5O	60	LEU
15	5O	62	LEU
15	5O	68	VAL
15	5O	73	LEU
15	5O	77	GLU
15	5O	101	ASP

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Mol	Chain	Res	Type
15	5O	119	LEU
15	5O	120	ILE
15	5O	135	GLU
15	5O	154	SER
15	5O	158	VAL
15	5O	171	LYS
15	5O	174	GLU
15	5O	181	SER
15	5O	203	ASN
15	5O	206	HIS
15	5O	217	GLU
15	5O	226	ARG
15	5O	227	TYR
15	5O	233	LEU
15	5O	259	ILE
15	5O	262	SER
15	5O	270	LEU
15	5O	273	LEU
15	5O	280	GLU
15	5O	289	LEU
15	5O	294	PHE
15	5O	298	VAL
15	5O	299	GLU
15	5O	309	LEU
15	5O	333	GLU
15	5O	359	THR
15	5P	14	LEU
15	5P	15	ASP
15	5P	18	SER
15	5P	22	TRP
15	5P	38	VAL
15	5P	42	ASN
15	5P	47	LEU
15	5P	55	LEU
15	5P	81	GLU
15	5P	271	TYR
15	5P	280	GLU
15	5P	282	LEU
15	5P	283	GLU
15	5P	326	LEU
15	5P	331	ASP
15	5P	347	PHE

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Mol	Chain	Res	Type
16	5Q	56	ASP
16	5Q	173	ARG
17	5S	18	GLN
17	5S	26	LYS
17	5S	30	LYS
17	5S	42	LYS
17	5S	53	ASP
17	5S	69	LYS
17	5S	72	SER
17	5S	78	ASN
17	5S	82	LYS
17	5S	83	ILE
17	5S	92	GLU
17	5S	106	THR
17	5S	120	VAL
17	5S	126	GLN
17	5S	128	THR
17	5S	136	VAL
17	5S	138	MET
17	5S	145	ASP
17	5S	176	GLU
17	5S	185	LEU
17	5S	192	VAL
17	5S	194	THR
17	5S	216	GLU
17	5S	217	ARG
17	5S	225	ASP
17	5S	227	ARG
17	5S	230	GLU
17	5S	233	GLU
17	5T	18	GLN
17	5T	26	LYS
17	5T	30	LYS
17	5T	42	LYS
17	5T	53	ASP
17	5T	69	LYS
17	5T	72	SER
17	5T	78	ASN
17	5T	82	LYS
17	5T	83	ILE
17	5T	92	GLU
17	5T	106	THR

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Mol	Chain	Res	Type
17	5T	120	VAL
17	5T	126	GLN
17	5T	128	THR
17	5T	136	VAL
17	5T	138	MET
17	5T	145	ASP
17	5T	176	GLU
17	5T	177	ASP
17	5T	179	GLN
17	5T	180	GLN
17	5T	185	LEU
17	5T	192	VAL
17	5T	194	THR
17	5T	216	GLU
17	5T	217	ARG
17	5T	225	ASP
17	5T	227	ARG
17	5T	230	GLU
17	5T	231	ARG
17	5U	18	GLN
17	5U	26	LYS
17	5U	30	LYS
17	5U	42	LYS
17	5U	53	ASP
17	5U	69	LYS
17	5U	72	SER
17	5U	78	ASN
17	5U	82	LYS
17	5U	83	ILE
17	5U	92	GLU
17	5U	106	THR
17	5U	114	LEU
17	5U	120	VAL
17	5U	126	GLN
17	5U	128	THR
17	5U	136	VAL
17	5U	138	MET
17	5U	145	ASP
17	5U	176	GLU
17	5U	182	VAL
17	5U	185	LEU
17	5U	192	VAL

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Mol	Chain	Res	Type
17	5U	194	THR
17	5U	216	GLU
17	5U	217	ARG
17	5U	225	ASP
17	5U	227	ARG
17	5U	230	GLU
17	5U	233	GLU
17	5V	176	GLU
17	5V	177	ASP
18	5X	27	ASP
18	5X	31	ASP
18	5X	35	LEU
18	5X	47	SER
18	5X	50	SER
18	5X	55	ASP
18	5X	56	LYS
18	5X	58	LEU
18	5X	65	VAL
18	5X	77	THR
18	5X	90	LEU
18	5X	100	GLU
18	5X	107	VAL
18	5X	109	THR
18	5X	110	GLU
18	5X	116	ASP
18	5X	121	LEU
18	5X	123	SER
18	5X	124	SER
18	5X	131	GLU
18	5X	136	VAL
18	5X	174	VAL
18	5X	175	THR
18	5X	176	LEU
18	5X	180	ARG
18	5X	184	THR
18	5X	193	ASP
18	5X	195	GLU
18	5X	197	SER
18	5X	198	LEU
18	5X	199	LEU
18	5X	212	ILE
18	5X	218	SER

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Mol	Chain	Res	Type
18	5Y	27	ASP
18	5Y	31	ASP
18	5Y	35	LEU
18	5Y	47	SER
18	5Y	50	SER
18	5Y	55	ASP
18	5Y	56	LYS
18	5Y	58	LEU
18	5Y	65	VAL
18	5Y	77	THR
18	5Y	90	LEU
18	5Y	100	GLU
18	5Y	107	VAL
18	5Y	109	THR
18	5Y	110	GLU
18	5Y	116	ASP
18	5Y	121	LEU
18	5Y	123	SER
18	5Y	124	SER
18	5Y	131	GLU
18	5Y	136	VAL
18	5Y	174	VAL
18	5Y	175	THR
18	5Y	176	LEU
18	5Y	184	THR
18	5Y	193	ASP
18	5Y	195	GLU
18	5Y	197	SER
18	5Y	198	LEU
18	5Y	199	LEU
18	5Y	212	ILE
18	5Y	218	SER
18	5Z	27	ASP
18	5Z	31	ASP
18	5Z	35	LEU
18	5Z	47	SER
18	5Z	50	SER
18	5Z	55	ASP
18	5Z	56	LYS
18	5Z	58	LEU
18	5Z	65	VAL
18	5Z	77	THR

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Mol	Chain	Res	Type
18	5Z	90	LEU
18	5Z	100	GLU
18	5Z	107	VAL
18	5Z	109	THR
18	5Z	110	GLU
18	5Z	116	ASP
18	5Z	121	LEU
18	5Z	123	SER
18	5Z	124	SER
18	5Z	131	GLU
18	5Z	136	VAL
18	5Z	174	VAL
18	5Z	175	THR
18	5Z	176	LEU
18	5Z	184	THR
18	5Z	193	ASP
18	5Z	195	GLU
18	5Z	197	SER
18	5Z	198	LEU
18	5Z	199	LEU
18	5Z	212	ILE
18	5Z	218	SER
18	6A	27	ASP
18	6A	31	ASP
18	6A	35	LEU
18	6A	47	SER
18	6A	50	SER
18	6A	55	ASP
18	6A	56	LYS
18	6A	58	LEU
18	6A	65	VAL
18	6A	77	THR
18	6A	90	LEU
18	6A	100	GLU
18	6A	107	VAL
18	6A	109	THR
18	6A	110	GLU
18	6A	116	ASP
18	6A	121	LEU
18	6A	123	SER
18	6A	124	SER
18	6A	131	GLU

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Mol	Chain	Res	Type
18	6A	136	VAL
18	6A	174	VAL
18	6A	175	THR
18	6A	176	LEU
18	6A	184	THR
18	6A	193	ASP
18	6A	195	GLU
18	6A	197	SER
18	6A	198	LEU
18	6A	199	LEU
18	6A	212	ILE
18	6A	218	SER
18	6B	27	ASP
18	6B	31	ASP
18	6B	35	LEU
18	6B	47	SER
18	6B	50	SER
18	6B	55	ASP
18	6B	56	LYS
18	6B	58	LEU
18	6B	65	VAL
18	6B	77	THR
18	6B	90	LEU
18	6B	100	GLU
18	6B	107	VAL
18	6B	109	THR
18	6B	110	GLU
18	6B	116	ASP
18	6B	121	LEU
18	6B	123	SER
18	6B	124	SER
18	6B	131	GLU
18	6B	136	VAL
18	6B	174	VAL
18	6B	175	THR
18	6B	176	LEU
18	6B	184	THR
18	6B	193	ASP
18	6B	195	GLU
18	6B	197	SER
18	6B	198	LEU
18	6B	199	LEU

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Mol	Chain	Res	Type
18	6B	212	ILE
18	6B	218	SER
18	6C	27	ASP
18	6C	31	ASP
18	6C	35	LEU
18	6C	47	SER
18	6C	50	SER
18	6C	55	ASP
18	6C	56	LYS
18	6C	58	LEU
18	6C	65	VAL
18	6C	77	THR
18	6C	90	LEU
18	6C	100	GLU
18	6C	107	VAL
18	6C	109	THR
18	6C	110	GLU
18	6C	116	ASP
18	6C	121	LEU
18	6C	123	SER
18	6C	124	SER
18	6C	131	GLU
18	6C	136	VAL
18	6C	174	VAL
18	6C	175	THR
18	6C	176	LEU
18	6C	184	THR
18	6C	193	ASP
18	6C	195	GLU
18	6C	197	SER
18	6C	198	LEU
18	6C	199	LEU
18	6C	212	ILE
18	6C	218	SER
18	6D	27	ASP
18	6D	31	ASP
18	6D	35	LEU
18	6D	47	SER
18	6D	50	SER
18	6D	55	ASP
18	6D	56	LYS
18	6D	58	LEU

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Mol	Chain	Res	Type
18	6D	65	VAL
18	6D	77	THR
18	6D	90	LEU
18	6D	100	GLU
18	6D	107	VAL
18	6D	109	THR
18	6D	110	GLU
18	6D	116	ASP
18	6D	121	LEU
18	6D	123	SER
18	6D	124	SER
18	6D	131	GLU
18	6D	136	VAL
18	6D	174	VAL
18	6D	175	THR
18	6D	176	LEU
18	6D	184	THR
18	6D	193	ASP
18	6D	195	GLU
18	6D	197	SER
18	6D	198	LEU
18	6D	199	LEU
18	6D	212	ILE
18	6D	218	SER
19	6E	96	ASP
19	6E	106	ASN
20	6F	131	GLU
20	6F	357	VAL
22	6I	32	LYS
22	6I	131	ARG
22	6J	32	LYS
22	6K	32	LYS
22	6K	121	LYS
22	6L	32	LYS
22	6M	32	LYS
22	6M	106	ASP
22	6M	223	LEU
22	6N	32	LYS
22	6O	32	LYS
22	6O	96	LYS
22	6P	32	LYS
22	6P	266	LYS

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Mol	Chain	Res	Type
22	6P	307	ARG
23	6Q	4	LYS
23	6Q	21	THR
23	6Q	22	MET
23	6Q	26	GLN
23	6Q	45	GLU
23	6Q	62	GLN
23	6Q	65	LEU
23	6Q	69	GLN
23	6R	4	LYS
23	6R	30	GLU
23	6R	45	GLU
23	6R	54	ASN
23	6R	62	GLN
23	6R	65	LEU
23	6R	69	GLN
23	6S	4	LYS
23	6S	45	GLU
23	6S	62	GLN
23	6S	65	LEU
23	6S	69	GLN
24	6T	333	LYS
24	6T	364	ARG
24	6T	433	ARG
24	6T	488	ARG
24	6T	490	THR
24	6U	14	TYR
24	6U	33	LEU
24	6U	35	TYR
24	6U	41	ARG
24	6U	364	ARG
24	6U	433	ARG
24	6U	492	ILE
24	6V	6	PRO
24	6V	11	LEU
24	6V	16	VAL
24	6V	150	ARG
24	6V	364	ARG
24	6W	10	LYS
24	6W	37	ASN
24	6W	39	TYR
24	6W	40	GLN

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Mol	Chain	Res	Type
24	6W	91	ASN
24	6W	364	ARG
24	6W	433	ARG
24	6W	469	PHE
24	6X	150	ARG
24	6X	223	ARG
24	6X	315	ARG
24	6X	364	ARG
24	6X	433	ARG
24	6X	469	PHE
24	6X	473	TYR
24	6X	478	ASP
24	6X	489	ASN
24	6X	517	LEU
24	6Y	14	TYR
24	6Y	15	THR
24	6Y	35	TYR
24	6Y	42	GLU
24	6Y	43	ASP
24	6Y	91	ASN
24	6Y	364	ARG
24	6Z	124	TYR
24	6Z	150	ARG
24	6Z	151	HIS
24	6Z	364	ARG
24	6Z	433	ARG
24	7A	93	ARG
12	7B	58	ARG
26	7D	31	VAL
26	7D	40	THR
26	7D	58	ILE
26	7D	59	ARG
26	7D	70	VAL
26	7D	74	VAL
26	7D	88	THR
26	7D	90	THR
26	7D	92	LEU
26	7D	94	THR
26	7D	100	LYS
26	7D	105	THR
26	7D	108	SER
26	7D	110	VAL

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Mol	Chain	Res	Type
26	7D	115	GLU
26	7E	31	VAL
26	7E	40	THR
26	7E	56	LEU
26	7E	70	VAL
26	7E	74	VAL
26	7E	88	THR
26	7E	90	THR
26	7E	92	LEU
26	7E	94	THR
26	7E	100	LYS
26	7E	105	THR
26	7E	108	SER
26	7E	110	VAL
26	7E	115	GLU
26	7E	143	ASP
26	7E	146	ASN
26	7F	31	VAL
26	7F	58	ILE
26	7F	63	LEU
26	7F	70	VAL
26	7F	74	VAL
26	7F	88	THR
26	7F	90	THR
26	7F	92	LEU
26	7F	94	THR
26	7F	100	LYS
26	7F	105	THR
26	7F	108	SER
26	7F	110	VAL
26	7F	119	MET
26	7F	143	ASP
26	7F	146	ASN
28	7H	401	THR
28	7H	410	HIS
28	7H	415	THR
28	7H	429	ASP
28	7H	430	MET
28	7H	432	LEU
28	7H	437	SER
28	7H	448	THR
28	7H	456	VAL

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Mol	Chain	Res	Type
28	7H	458	SER
28	7H	459	VAL
29	7I	4	LYS
29	7J	167	ILE
29	7J	330	GLU
30	7K	3	LEU
30	7K	7	SER
30	7K	444	ARG
31	7M	25	THR
34	7R	248	LYS
34	7S	228	LYS
35	7T	179	ARG
35	7T	185	LYS
36	7V	24	ASN
36	7V	32	LYS
36	7V	39	LEU
36	7V	54	GLU
36	7V	73	LEU
36	7V	76	GLN
36	7V	80	THR
36	7V	83	ARG
36	7V	94	LEU
36	7V	98	VAL
36	7V	99	GLU
36	7W	24	ASN
36	7W	32	LYS
36	7W	39	LEU
36	7W	54	GLU
36	7W	73	LEU
36	7W	76	GLN
36	7W	80	THR
36	7W	83	ARG
36	7W	94	LEU
36	7W	98	VAL
36	7W	102	MET
36	7W	104	ASP
28	7X	301	GLU
28	7X	399	VAL
28	7X	410	HIS
28	7X	415	THR
28	7X	429	ASP
28	7X	430	MET

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Mol	Chain	Res	Type
28	7X	432	LEU
28	7X	437	SER
28	7X	448	THR
28	7X	451	LYS
28	7X	456	VAL
28	7X	458	SER
28	7X	459	VAL
37	7Y	55	LEU
37	7Y	56	MET
37	7Y	128	TYR
37	7Y	129	LYS
38	8A	91	GLN
38	8A	93	LYS
38	8A	100	SER
38	8A	197	THR
38	8A	204	GLN
38	8B	25	ILE
38	8B	80	TYR
38	8B	158	MET
38	8B	160	ASP
38	8B	165	LYS
38	8B	199	THR
38	8B	201	LEU
38	8C	72	ASP
38	8C	73	TRP
38	8C	74	ILE
38	8C	80	TYR
38	8C	83	ARG
38	8C	197	THR
38	8C	199	THR
38	8C	201	LEU
38	8C	204	GLN
38	8C	208	GLU
38	8D	80	TYR
38	8D	83	ARG
38	8D	84	ILE
38	8D	85	ARG
38	8D	91	GLN
38	8D	93	LYS
38	8D	160	ASP
38	8D	163	PHE
38	8D	175	ARG

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Mol	Chain	Res	Type
38	8D	209	HIS
38	8D	210	HIS
38	8D	213	GLU
38	8D	214	HIS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2787) such sidechains are listed below:

Mol	Chain	Res	Type
1	1	334	GLN
1	1	335	ASN
1	1	337	ASN
1	1	348	ASN
1	1	423	GLN
2	2	11	GLN
2	2	101	ASN
2	2	226	ASN
2	2	293	ASN
2	2	309	HIS
2	2	356	ASN
1	3	14	ASN
1	3	204	ASN
1	3	247	ASN
1	3	256	ASN
1	3	280	GLN
1	3	329	GLN
1	3	337	ASN
1	3	384	GLN
2	4	15	GLN
2	4	101	ASN
2	4	176	GLN
2	4	192	HIS
2	4	283	HIS
2	4	293	ASN
1	5	11	GLN
1	5	14	ASN
1	5	191	GLN
1	5	195	ASN
1	5	204	ASN
1	5	227	HIS
1	5	247	ASN
1	5	256	ASN
1	5	298	ASN

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Mol	Chain	Res	Type
1	5	329	GLN
1	5	334	GLN
1	5	337	ASN
1	5	348	ASN
1	5	396	HIS
1	5	414	ASN
2	6	8	HIS
2	6	11	GLN
2	6	61	HIS
2	6	192	HIS
2	6	226	ASN
2	6	258	ASN
2	6	293	ASN
1	7	14	ASN
1	7	37	HIS
1	7	99	ASN
1	7	190	HIS
1	7	247	ASN
1	7	334	GLN
1	7	335	ASN
1	7	337	ASN
1	7	348	ASN
1	7	414	ASN
2	8	8	HIS
2	8	85	GLN
2	8	88	HIS
2	8	102	ASN
2	8	133	GLN
2	8	258	ASN
2	8	285	GLN
2	8	293	ASN
2	8	309	HIS
2	8	329	ASN
2	8	372	GLN
1	9	8	GLN
1	9	14	ASN
1	9	227	HIS
1	9	247	ASN
1	9	329	GLN
1	9	334	GLN
1	9	348	ASN
2	A0	8	HIS

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Mol	Chain	Res	Type
2	A0	11	GLN
2	A0	101	ASN
2	A0	128	ASN
2	A0	192	HIS
2	A0	226	ASN
2	A0	283	HIS
2	A0	293	ASN
1	A1	6	HIS
1	A1	14	ASN
1	A1	99	ASN
1	A1	190	HIS
1	A1	279	GLN
1	A1	292	GLN
1	A1	329	GLN
1	A1	334	GLN
1	A1	337	ASN
1	A1	348	ASN
2	A2	85	GLN
2	A2	283	HIS
2	A2	329	ASN
2	A2	372	GLN
1	A3	14	ASN
1	A3	15	GLN
1	A3	131	GLN
1	A3	137	HIS
1	A3	227	HIS
1	A3	334	GLN
1	A3	335	ASN
1	A3	337	ASN
2	A4	88	HIS
2	A4	101	ASN
2	A4	197	HIS
2	A4	258	ASN
2	A4	283	HIS
2	A4	293	ASN
2	A4	309	HIS
1	A5	14	ASN
1	A5	256	ASN
1	A5	280	GLN
1	A5	292	GLN
1	A5	329	GLN
1	A5	348	ASN

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Mol	Chain	Res	Type
1	A5	375	GLN
1	A5	414	ASN
1	A5	426	GLN
1	A7	6	HIS
1	A7	89	ASN
1	A7	99	ASN
1	A7	280	GLN
1	A7	329	GLN
1	A7	396	HIS
2	A8	61	HIS
2	A8	133	GLN
2	A8	249	ASN
2	A8	256	GLN
2	A8	258	ASN
2	A8	309	HIS
2	A8	329	ASN
2	A8	393	HIS
1	A9	37	HIS
1	A9	256	ASN
1	A9	280	GLN
1	A9	329	GLN
1	A9	334	GLN
1	A9	384	GLN
1	A9	396	HIS
2	B0	61	HIS
2	B0	101	ASN
2	B0	206	ASN
2	B0	256	GLN
2	B0	258	ASN
2	B0	283	HIS
2	B0	309	HIS
2	B0	406	HIS
1	B1	11	GLN
1	B1	14	ASN
1	B1	329	GLN
1	B1	334	GLN
1	B1	348	ASN
1	B1	396	HIS
1	B1	423	GLN
2	B2	61	HIS
2	B2	88	HIS
2	B2	197	HIS

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Mol	Chain	Res	Type
2	B2	258	ASN
2	B2	309	HIS
1	B3	8	GLN
1	B3	14	ASN
1	B3	204	ASN
1	B3	256	ASN
1	B3	334	GLN
1	B3	337	ASN
2	B4	61	HIS
2	B4	128	ASN
2	B4	206	ASN
2	B4	233	GLN
2	B4	249	ASN
2	B4	406	HIS
1	B5	11	GLN
1	B5	14	ASN
1	B5	28	HIS
1	B5	48	ASN
1	B5	134	GLN
1	B5	245	GLN
1	B5	334	GLN
1	B5	348	ASN
1	B5	396	HIS
1	B5	423	GLN
2	B7	15	GLN
2	B7	61	HIS
2	B7	128	ASN
2	B7	133	GLN
2	B7	206	ASN
2	B7	285	GLN
1	B8	89	ASN
1	B8	99	ASN
1	B8	190	HIS
1	B8	256	ASN
1	B8	279	GLN
1	B8	329	GLN
1	B8	348	ASN
1	B8	423	GLN
2	B9	15	GLN
2	B9	61	HIS
2	B9	107	HIS
2	B9	128	ASN

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Mol	Chain	Res	Type
2	B9	197	HIS
2	B9	206	ASN
2	B9	226	ASN
1	C0	14	ASN
1	C0	131	GLN
1	C0	190	HIS
1	C0	292	GLN
1	C0	332	ASN
1	C0	334	GLN
1	C0	348	ASN
1	C0	396	HIS
2	C1	15	GLN
2	C1	61	HIS
2	C1	85	GLN
2	C1	128	ASN
2	C1	206	ASN
2	C1	226	ASN
2	C1	258	ASN
2	C1	393	HIS
1	C2	8	GLN
1	C2	14	ASN
1	C2	37	HIS
1	C2	256	ASN
1	C2	292	GLN
1	C2	332	ASN
1	C2	334	GLN
1	C2	384	GLN
1	C2	423	GLN
1	C4	6	HIS
1	C4	8	GLN
1	C4	14	ASN
1	C4	99	ASN
1	C4	227	HIS
1	C4	247	ASN
1	C4	256	ASN
1	C4	334	GLN
2	C5	61	HIS
2	C5	197	HIS
2	C5	226	ASN
2	C5	249	ASN
2	C5	293	ASN
2	C5	309	HIS

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Mol	Chain	Res	Type
2	C5	329	ASN
1	C6	6	HIS
1	C6	83	GLN
1	C6	89	ASN
1	C6	99	ASN
1	C6	131	GLN
1	C6	204	ASN
1	C6	245	GLN
1	C6	256	ASN
1	C6	264	HIS
2	C7	85	GLN
2	C7	88	HIS
2	C7	192	HIS
2	C7	226	ASN
2	C7	233	GLN
2	C7	256	GLN
2	C7	258	ASN
2	C7	285	GLN
2	C7	372	GLN
1	C8	6	HIS
1	C8	11	GLN
1	C8	89	ASN
1	C8	99	ASN
1	C8	184	ASN
1	C8	190	HIS
1	C8	204	ASN
1	C8	227	HIS
1	C8	256	ASN
1	C8	329	GLN
1	C8	334	GLN
1	C8	335	ASN
1	C8	348	ASN
1	C8	396	HIS
1	C8	414	ASN
2	C9	61	HIS
2	C9	197	HIS
2	C9	226	ASN
2	C9	258	ASN
2	C9	283	HIS
2	C9	285	GLN
2	C9	309	HIS
2	C9	372	GLN

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Mol	Chain	Res	Type
1	D0	6	HIS
1	D0	8	GLN
1	D0	14	ASN
1	D0	99	ASN
1	D0	131	GLN
1	D0	134	GLN
1	D0	190	HIS
1	D0	204	ASN
1	D0	256	ASN
1	D0	292	GLN
1	D0	329	GLN
1	D0	332	ASN
2	D1	101	ASN
2	D1	197	HIS
2	D1	226	ASN
2	D1	258	ASN
2	D1	309	HIS
1	D2	6	HIS
1	D2	8	GLN
1	D2	37	HIS
1	D2	43	GLN
1	D2	99	ASN
1	D2	134	GLN
1	D2	191	GLN
1	D2	204	ASN
1	D2	247	ASN
1	D2	256	ASN
1	D2	414	ASN
2	D3	28	HIS
2	D3	31	GLN
2	D3	258	ASN
2	D3	285	GLN
2	D3	372	GLN
1	D4	6	HIS
1	D4	99	ASN
1	D4	190	HIS
1	D4	204	ASN
1	D4	227	HIS
1	D4	256	ASN
1	D4	396	HIS
2	D5	226	ASN
2	D5	285	GLN

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Mol	Chain	Res	Type
2	D5	309	HIS
1	D6	6	HIS
1	D6	8	GLN
1	D6	195	ASN
1	D6	204	ASN
1	D6	256	ASN
1	D6	334	GLN
1	D6	337	ASN
1	D6	348	ASN
1	D6	414	ASN
1	D6	416	ASN
2	D7	197	HIS
2	D7	226	ASN
2	D7	233	GLN
2	D7	256	GLN
2	D7	283	HIS
2	D7	393	HIS
1	D8	37	HIS
1	D8	131	GLN
1	D8	191	GLN
1	D8	227	HIS
1	D8	256	ASN
1	D8	416	ASN
1	E0	37	HIS
1	E0	99	ASN
1	E0	204	ASN
1	E0	227	HIS
1	E0	347	ASN
1	E0	414	ASN
1	E0	416	ASN
2	E1	18	ASN
2	E1	28	HIS
2	E1	61	HIS
2	E1	85	GLN
2	E1	133	GLN
2	E1	226	ASN
2	E1	228	ASN
2	E1	233	GLN
2	E1	258	ASN
2	E1	283	HIS
2	E1	293	ASN
1	E2	190	HIS

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Mol	Chain	Res	Type
1	E2	204	ASN
1	E2	227	HIS
1	E2	329	GLN
1	E2	334	GLN
1	E2	337	ASN
2	E3	8	HIS
2	E3	18	ASN
2	E3	197	HIS
2	E3	226	ASN
2	E3	256	GLN
2	E3	258	ASN
1	E4	11	GLN
1	E4	14	ASN
1	E4	99	ASN
1	E4	131	GLN
1	E4	190	HIS
1	E4	204	ASN
1	E4	227	HIS
1	E4	245	GLN
1	E4	256	ASN
1	E4	292	GLN
1	E4	334	GLN
1	E4	348	ASN
1	E4	396	HIS
2	E5	8	HIS
2	E5	15	GLN
2	E5	192	HIS
2	E5	226	ASN
2	E5	228	ASN
2	E5	258	ASN
2	E5	309	HIS
2	E5	329	ASN
1	E6	11	GLN
1	E6	15	GLN
1	E6	99	ASN
1	E6	131	GLN
1	E6	190	HIS
1	E6	204	ASN
1	E6	227	HIS
1	E6	256	ASN
1	E6	334	GLN
1	E6	396	HIS

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Mol	Chain	Res	Type
2	E7	50	ASN
2	E7	61	HIS
2	E7	133	GLN
2	E7	258	ASN
2	E7	283	HIS
2	E7	356	ASN
1	E8	8	GLN
1	E8	83	GLN
1	E8	99	ASN
1	E8	190	HIS
1	E8	204	ASN
1	E8	227	HIS
1	E8	291	GLN
1	E8	334	GLN
1	E8	396	HIS
2	E9	8	HIS
2	E9	85	GLN
2	E9	128	ASN
2	E9	228	ASN
2	E9	233	GLN
2	E9	258	ASN
2	E9	309	HIS
2	E9	356	ASN
2	E9	358	GLN
2	E9	393	HIS
1	F0	6	HIS
1	F0	14	ASN
1	F0	37	HIS
1	F0	48	ASN
1	F0	99	ASN
1	F0	134	GLN
1	F0	190	HIS
1	F0	227	HIS
1	F0	245	GLN
1	F0	280	GLN
1	F0	348	ASN
1	F0	396	HIS
2	F1	197	HIS
2	F1	228	ASN
2	F1	233	GLN
2	F1	258	ASN
2	F1	293	ASN

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Mol	Chain	Res	Type
2	F1	309	HIS
2	F1	356	ASN
1	F2	99	ASN
1	F2	131	GLN
1	F2	195	ASN
1	F2	227	HIS
1	F2	256	ASN
1	F2	280	GLN
1	F2	334	GLN
1	F2	348	ASN
1	F2	370	ASN
1	F2	396	HIS
2	F3	11	GLN
2	F3	61	HIS
2	F3	88	HIS
2	F3	101	ASN
2	F3	128	ASN
2	F3	176	GLN
2	F3	226	ASN
2	F3	233	GLN
2	F3	258	ASN
2	F3	309	HIS
2	F3	329	ASN
2	F5	31	GLN
2	F5	101	ASN
2	F5	186	ASN
2	F5	249	ASN
2	F5	342	GLN
2	F5	356	ASN
1	F6	15	GLN
1	F6	190	HIS
1	F6	291	GLN
1	F6	347	ASN
1	F6	396	HIS
1	F6	416	ASN
2	F7	8	HIS
2	F7	88	HIS
2	F7	101	ASN
2	F7	133	GLN
2	F7	258	ASN
2	F7	285	GLN
2	F7	293	ASN

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Mol	Chain	Res	Type
2	F7	406	HIS
1	F8	6	HIS
1	F8	11	GLN
1	F8	204	ASN
1	F8	279	GLN
1	F8	298	ASN
1	F8	335	ASN
1	F8	348	ASN
1	F8	396	HIS
2	F9	8	HIS
2	F9	11	GLN
2	F9	101	ASN
2	F9	256	GLN
2	F9	293	ASN
2	F9	309	HIS
1	G0	99	ASN
1	G0	105	HIS
1	G0	137	HIS
1	G0	184	ASN
1	G0	190	HIS
1	G0	279	GLN
1	G0	280	GLN
1	G0	334	GLN
1	G0	348	ASN
1	G0	396	HIS
2	G1	133	GLN
2	G1	258	ASN
2	G1	293	ASN
2	G1	309	HIS
1	G2	14	ASN
1	G2	204	ASN
1	G2	256	ASN
1	G2	347	ASN
1	G2	384	GLN
1	G2	396	HIS
1	G2	416	ASN
2	G3	8	HIS
2	G3	85	GLN
2	G3	101	ASN
2	G3	256	GLN
2	G3	293	ASN
2	G3	309	HIS

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Mol	Chain	Res	Type
1	G4	6	HIS
1	G4	37	HIS
1	G4	204	ASN
1	G4	334	GLN
1	G4	335	ASN
1	G4	348	ASN
1	G4	396	HIS
2	G5	8	HIS
2	G5	107	HIS
2	G5	228	ASN
2	G5	233	GLN
2	G5	293	ASN
2	G5	309	HIS
2	G5	372	GLN
1	G6	137	HIS
1	G6	256	ASN
1	G6	334	GLN
1	G6	347	ASN
1	G6	384	GLN
1	G6	396	HIS
2	G7	88	HIS
2	G7	186	ASN
2	G7	256	GLN
2	G7	258	ASN
2	G7	293	ASN
2	G7	372	GLN
1	G8	14	ASN
1	G8	137	HIS
1	G8	184	ASN
1	G8	204	ASN
1	G8	247	ASN
1	G8	256	ASN
1	G8	298	ASN
1	G8	334	GLN
1	G8	347	ASN
1	G8	348	ASN
1	G8	396	HIS
2	G9	8	HIS
2	G9	11	GLN
2	G9	61	HIS
2	G9	101	ASN
2	G9	192	HIS

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Mol	Chain	Res	Type
2	G9	226	ASN
2	G9	228	ASN
2	G9	258	ASN
2	G9	293	ASN
2	G9	329	ASN
2	G9	406	HIS
2	H1	88	HIS
2	H1	101	ASN
2	H1	133	GLN
2	H1	192	HIS
2	H1	258	ASN
2	H1	293	ASN
2	H1	406	HIS
1	H2	6	HIS
1	H2	14	ASN
1	H2	256	ASN
1	H2	334	GLN
1	H2	335	ASN
1	H2	396	HIS
2	H3	88	HIS
2	H3	101	ASN
2	H3	186	ASN
2	H3	256	GLN
2	H3	285	GLN
2	H3	293	ASN
2	H3	309	HIS
1	H4	14	ASN
1	H4	190	HIS
1	H4	334	GLN
1	H4	335	ASN
1	H4	396	HIS
1	H4	414	ASN
2	H5	293	ASN
2	H5	309	HIS
2	H5	329	ASN
1	H6	14	ASN
1	H6	190	HIS
1	H6	247	ASN
1	H6	256	ASN
1	H6	334	GLN
1	H6	396	HIS
2	H7	15	GLN

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Mol	Chain	Res	Type
2	H7	293	ASN
2	H7	309	HIS
2	H7	406	HIS
1	H8	99	ASN
1	H8	190	HIS
1	H8	334	GLN
1	H8	396	HIS
1	H8	414	ASN
2	H9	15	GLN
2	H9	293	ASN
2	H9	309	HIS
1	I0	14	ASN
1	I0	184	ASN
1	I0	292	GLN
1	I0	384	GLN
1	I0	396	HIS
1	I0	423	GLN
2	I1	11	GLN
2	I1	15	GLN
2	I1	88	HIS
2	I1	91	GLN
2	I1	101	ASN
2	I1	256	GLN
2	I1	258	ASN
2	I1	293	ASN
2	I1	309	HIS
2	I1	406	HIS
1	I2	14	ASN
1	I2	131	GLN
1	I2	184	ASN
1	I2	247	ASN
1	I2	334	GLN
1	I2	384	GLN
1	I2	396	HIS
2	I3	256	GLN
2	I3	293	ASN
2	I3	309	HIS
2	I3	329	ASN
1	I4	6	HIS
1	I4	190	HIS
1	I4	334	GLN
1	I4	396	HIS

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Mol	Chain	Res	Type
2	I5	8	HIS
2	I5	226	ASN
2	I5	293	ASN
2	I5	309	HIS
2	I5	393	HIS
2	I5	406	HIS
2	I7	61	HIS
2	I7	285	GLN
2	I7	293	ASN
2	I7	309	HIS
1	I8	190	HIS
1	I8	292	GLN
1	I8	334	GLN
1	I8	396	HIS
2	I9	197	HIS
2	I9	206	ASN
2	I9	258	ASN
2	I9	285	GLN
2	I9	293	ASN
2	I9	329	ASN
1	J0	43	GLN
1	J0	131	GLN
1	J0	245	GLN
1	J0	334	GLN
1	J0	335	ASN
2	J1	11	GLN
2	J1	133	GLN
2	J1	258	ASN
2	J1	285	GLN
2	J1	309	HIS
1	J2	14	ASN
1	J2	94	GLN
1	J2	247	ASN
1	J2	264	HIS
1	J2	348	ASN
1	J2	396	HIS
2	J3	15	GLN
2	J3	88	HIS
2	J3	128	ASN
2	J3	283	HIS
2	J3	285	GLN
2	J3	309	HIS

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Mol	Chain	Res	Type
1	J4	6	HIS
1	J4	14	ASN
1	J4	43	GLN
1	J4	89	ASN
1	J4	99	ASN
1	J4	227	HIS
1	J4	247	ASN
1	J4	292	GLN
1	J4	334	GLN
1	J4	335	ASN
1	J4	396	HIS
2	J5	258	ASN
2	J5	309	HIS
2	J5	329	ASN
2	J5	342	GLN
2	J5	372	GLN
1	J6	14	ASN
1	J6	37	HIS
1	J6	99	ASN
1	J6	131	GLN
1	J6	190	HIS
1	J6	227	HIS
1	J6	245	GLN
1	J6	256	ASN
1	J6	291	GLN
1	J6	334	GLN
1	J6	347	ASN
1	J6	348	ASN
1	J6	396	HIS
2	J7	11	GLN
2	J7	31	GLN
2	J7	258	ASN
2	J7	309	HIS
2	J7	358	GLN
1	J8	14	ASN
1	J8	89	ASN
1	J8	227	HIS
1	J8	245	GLN
1	J8	247	ASN
1	J8	256	ASN
1	J8	396	HIS
2	J9	28	HIS

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Mol	Chain	Res	Type
2	J9	61	HIS
2	J9	256	GLN
2	J9	283	HIS
2	J9	309	HIS
1	K0	6	HIS
1	K0	14	ASN
1	K0	190	HIS
1	K0	245	GLN
1	K0	256	ASN
1	K0	264	HIS
1	K0	334	GLN
1	K0	335	ASN
1	K0	396	HIS
2	K1	8	HIS
2	K1	28	HIS
2	K1	31	GLN
2	K1	107	HIS
2	K1	133	GLN
2	K1	192	HIS
2	K1	258	ASN
2	K1	309	HIS
2	K1	342	GLN
2	K3	8	HIS
2	K3	192	HIS
2	K3	285	GLN
2	K3	293	ASN
2	K3	309	HIS
2	K3	372	GLN
1	K4	190	HIS
1	K4	245	GLN
1	K4	292	GLN
1	K4	334	GLN
1	K4	347	ASN
1	K4	396	HIS
1	K4	414	ASN
2	K5	8	HIS
2	K5	18	ASN
2	K5	309	HIS
1	K6	184	ASN
1	K6	329	GLN
1	K6	334	GLN
1	K6	348	ASN

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Mol	Chain	Res	Type
1	K6	384	GLN
1	K6	396	HIS
2	K7	8	HIS
2	K7	293	ASN
2	K7	342	GLN
1	K8	14	ASN
1	K8	131	GLN
1	K8	190	HIS
1	K8	247	ASN
1	K8	334	GLN
1	K8	347	ASN
1	K8	384	GLN
1	K8	396	HIS
2	K9	8	HIS
2	K9	283	HIS
2	K9	309	HIS
2	K9	329	ASN
2	K9	342	GLN
1	L0	14	ASN
1	L0	190	HIS
1	L0	264	HIS
1	L0	334	GLN
1	L0	348	ASN
1	L0	396	HIS
2	L1	8	HIS
2	L1	102	ASN
2	L1	226	ASN
2	L1	258	ASN
2	L1	293	ASN
2	L1	309	HIS
2	L1	372	GLN
1	L2	99	ASN
1	L2	191	GLN
1	L2	195	ASN
1	L2	247	ASN
1	L2	256	ASN
1	L2	292	GLN
1	L2	329	GLN
1	L2	334	GLN
1	L2	384	GLN
1	L2	396	HIS
2	L3	8	HIS

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Mol	Chain	Res	Type
2	L3	88	HIS
2	L3	226	ASN
2	L3	258	ASN
2	L3	329	ASN
2	L3	372	GLN
1	L4	14	ASN
1	L4	15	GLN
1	L4	204	ASN
1	L4	256	ASN
1	L4	334	GLN
2	L5	18	ASN
2	L5	197	HIS
2	L5	293	ASN
1	L6	11	GLN
1	L6	43	GLN
1	L6	99	ASN
1	L6	190	HIS
1	L6	245	GLN
1	L6	247	ASN
1	L6	256	ASN
1	L6	280	GLN
1	L6	334	GLN
1	L6	348	ASN
1	L6	396	HIS
1	L6	414	ASN
2	L7	8	HIS
2	L7	233	GLN
2	L7	258	ASN
2	L7	283	HIS
2	L7	293	ASN
2	L7	329	ASN
2	L9	293	ASN
2	L9	309	HIS
1	M0	14	ASN
1	M0	89	ASN
1	M0	247	ASN
1	M0	256	ASN
1	M0	292	GLN
1	M0	329	GLN
1	M0	334	GLN
1	M0	396	HIS
2	M1	18	ASN

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Mol	Chain	Res	Type
2	M1	85	GLN
2	M1	133	GLN
2	M1	176	GLN
2	M1	258	ASN
2	M1	309	HIS
1	M2	14	ASN
1	M2	89	ASN
1	M2	195	ASN
1	M2	256	ASN
1	M2	334	GLN
1	M2	348	ASN
2	M3	61	HIS
2	M3	226	ASN
2	M3	258	ASN
2	M3	309	HIS
1	M4	89	ASN
1	M4	105	HIS
1	M4	227	HIS
1	M4	256	ASN
1	M4	292	GLN
1	M4	334	GLN
1	M4	396	HIS
2	M5	8	HIS
2	M5	18	ASN
2	M5	88	HIS
2	M5	293	ASN
2	M5	309	HIS
1	M6	14	ASN
1	M6	37	HIS
1	M6	89	ASN
1	M6	105	HIS
1	M6	334	GLN
1	M6	396	HIS
2	M7	15	GLN
2	M7	50	ASN
2	M7	61	HIS
2	M7	91	GLN
2	M7	101	ASN
2	M7	206	ASN
2	M7	283	HIS
2	M7	285	GLN
2	M7	309	HIS

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Mol	Chain	Res	Type
1	M8	89	ASN
1	M8	190	HIS
1	M8	292	GLN
1	M8	348	ASN
2	M9	61	HIS
2	M9	197	HIS
2	M9	233	GLN
2	M9	293	ASN
1	N0	14	ASN
1	N0	89	ASN
1	N0	334	GLN
1	N0	396	HIS
2	N1	8	HIS
2	N1	28	HIS
2	N1	101	ASN
2	N1	197	HIS
2	N1	293	ASN
2	N1	309	HIS
1	N2	89	ASN
1	N2	256	ASN
1	N2	292	GLN
1	N2	348	ASN
1	N2	396	HIS
1	N2	423	GLN
2	N3	8	HIS
2	N3	15	GLN
2	N3	18	ASN
2	N3	88	HIS
2	N3	102	ASN
2	N3	133	GLN
2	N3	226	ASN
2	N3	258	ASN
2	N3	285	GLN
2	N3	293	ASN
2	N3	309	HIS
2	N3	356	ASN
2	N5	18	ASN
2	N5	88	HIS
2	N5	192	HIS
2	N5	283	HIS
2	N5	293	ASN
2	N5	309	HIS

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Mol	Chain	Res	Type
2	N5	356	ASN
1	N6	48	ASN
1	N6	99	ASN
1	N6	105	HIS
1	N6	191	GLN
1	N6	204	ASN
1	N6	227	HIS
1	N6	256	ASN
1	N6	279	GLN
1	N6	396	HIS
2	N7	226	ASN
2	N7	258	ASN
2	N7	293	ASN
2	N7	309	HIS
2	N7	356	ASN
1	N8	14	ASN
1	N8	99	ASN
1	N8	190	HIS
1	N8	204	ASN
1	N8	227	HIS
1	N8	256	ASN
1	N8	334	GLN
1	N8	347	ASN
1	N8	348	ASN
1	N8	396	HIS
2	N9	233	GLN
2	N9	258	ASN
2	N9	293	ASN
2	N9	309	HIS
2	N9	356	ASN
1	O0	6	HIS
1	O0	8	GLN
1	O0	89	ASN
1	O0	99	ASN
1	O0	131	GLN
1	O0	190	HIS
1	O0	227	HIS
1	O0	245	GLN
1	O0	256	ASN
1	O0	264	HIS
1	O0	396	HIS
1	O0	416	ASN

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Mol	Chain	Res	Type
2	O1	233	GLN
2	O1	256	GLN
2	O1	258	ASN
2	O1	283	HIS
2	O1	309	HIS
1	O2	6	HIS
1	O2	14	ASN
1	O2	15	GLN
1	O2	99	ASN
1	O2	131	GLN
1	O2	204	ASN
1	O2	227	HIS
1	O2	245	GLN
1	O2	337	ASN
2	O3	50	ASN
2	O3	128	ASN
2	O3	249	ASN
2	O3	258	ASN
2	O3	309	HIS
2	O3	329	ASN
1	O4	6	HIS
1	O4	89	ASN
1	O4	131	GLN
1	O4	190	HIS
1	O4	227	HIS
1	O4	256	ASN
1	O4	279	GLN
1	O4	396	HIS
2	O5	15	GLN
2	O5	31	GLN
2	O5	128	ASN
2	O5	285	GLN
2	O5	309	HIS
2	O5	329	ASN
1	O6	6	HIS
1	O6	89	ASN
1	O6	131	GLN
1	O6	134	GLN
1	O6	195	ASN
1	O6	245	GLN
1	O6	256	ASN
1	O6	396	HIS

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Mol	Chain	Res	Type
2	O7	28	HIS
2	O7	85	GLN
2	O7	88	HIS
2	O7	197	HIS
2	O7	258	ASN
2	O7	329	ASN
2	O7	358	GLN
1	O8	99	ASN
1	O8	131	GLN
1	O8	227	HIS
1	O8	245	GLN
1	O8	256	ASN
1	O8	292	GLN
1	O8	347	ASN
1	O8	396	HIS
2	O9	28	HIS
2	O9	101	ASN
2	O9	258	ASN
2	O9	285	GLN
2	P3	8	HIS
2	P3	18	ASN
2	P3	133	GLN
2	P3	226	ASN
2	P3	293	ASN
2	P3	309	HIS
2	P3	356	ASN
1	P4	14	ASN
1	P4	137	HIS
1	P4	204	ASN
1	P4	256	ASN
1	P4	329	GLN
1	P4	416	ASN
2	P5	8	HIS
2	P5	197	HIS
2	P5	228	ASN
2	P5	283	HIS
2	P5	309	HIS
2	P5	329	ASN
1	P6	89	ASN
1	P6	137	HIS
1	P6	190	HIS
1	P6	204	ASN

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Mol	Chain	Res	Type
1	P6	256	ASN
1	P6	334	GLN
1	P6	347	ASN
1	P6	384	GLN
1	P6	396	HIS
1	P6	414	ASN
1	P6	416	ASN
2	P7	88	HIS
2	P7	107	HIS
2	P7	133	GLN
2	P7	192	HIS
2	P7	309	HIS
2	P7	342	GLN
1	P8	11	GLN
1	P8	14	ASN
1	P8	37	HIS
1	P8	99	ASN
1	P8	137	HIS
1	P8	204	ASN
1	P8	256	ASN
1	P8	298	ASN
1	P8	334	GLN
1	P8	423	GLN
2	P9	8	HIS
2	P9	18	ASN
2	P9	31	GLN
2	P9	107	HIS
2	P9	133	GLN
2	P9	228	ASN
2	P9	258	ASN
2	P9	309	HIS
1	Q0	14	ASN
1	Q0	131	GLN
1	Q0	190	HIS
1	Q0	204	ASN
1	Q0	227	HIS
1	Q0	247	ASN
1	Q0	256	ASN
1	Q0	292	GLN
1	Q0	329	GLN
1	Q0	334	GLN
1	Q0	347	ASN

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Mol	Chain	Res	Type
1	Q0	348	ASN
1	Q0	396	HIS
1	Q0	416	ASN
1	Q0	423	GLN
2	Q1	8	HIS
2	Q1	197	HIS
2	Q1	258	ASN
2	Q1	309	HIS
1	Q2	99	ASN
1	Q2	190	HIS
1	Q2	204	ASN
1	Q2	247	ASN
1	Q2	334	GLN
1	Q2	396	HIS
1	Q2	423	GLN
2	Q3	8	HIS
2	Q3	88	HIS
2	Q3	258	ASN
2	Q3	309	HIS
1	Q4	6	HIS
1	Q4	8	GLN
1	Q4	11	GLN
1	Q4	14	ASN
1	Q4	134	GLN
1	Q4	204	ASN
1	Q4	227	HIS
1	Q4	245	GLN
1	Q4	256	ASN
1	Q4	348	ASN
1	Q4	396	HIS
2	Q5	8	HIS
2	Q5	133	GLN
2	Q5	226	ASN
2	Q5	256	GLN
2	Q5	309	HIS
2	Q5	329	ASN
1	Q6	14	ASN
1	Q6	137	HIS
1	Q6	190	HIS
1	Q6	204	ASN
1	Q6	227	HIS
1	Q6	256	ASN

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Mol	Chain	Res	Type
1	Q6	279	GLN
1	Q6	298	ASN
1	Q6	329	GLN
1	Q6	334	GLN
1	Q6	348	ASN
1	Q6	384	GLN
1	Q6	423	GLN
1	Q8	11	GLN
1	Q8	28	HIS
1	Q8	43	GLN
1	Q8	99	ASN
1	Q8	396	HIS
2	Q9	256	GLN
2	Q9	258	ASN
2	Q9	406	HIS
1	R0	6	HIS
1	R0	256	ASN
1	R0	291	GLN
1	R0	337	ASN
1	R0	384	GLN
1	R0	396	HIS
1	R0	424	GLN
2	R1	197	HIS
2	R1	258	ASN
2	R1	293	ASN
2	R1	309	HIS
2	R1	329	ASN
1	R2	11	GLN
1	R2	94	GLN
1	R2	190	HIS
1	R2	247	ASN
1	R2	256	ASN
1	R2	329	GLN
1	R2	334	GLN
1	R2	348	ASN
1	R2	396	HIS
1	R2	423	GLN
2	R3	15	GLN
2	R3	18	ASN
2	R3	61	HIS
2	R3	102	ASN
2	R3	192	HIS

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Mol	Chain	Res	Type
2	R3	226	ASN
2	R3	309	HIS
2	R3	372	GLN
1	R4	6	HIS
1	R4	14	ASN
1	R4	190	HIS
1	R4	334	GLN
1	R4	335	ASN
1	R4	384	GLN
1	R4	414	ASN
1	R4	424	GLN
1	R4	426	GLN
2	R5	8	HIS
2	R5	88	HIS
2	R5	197	HIS
2	R5	258	ASN
2	R5	293	ASN
2	R5	309	HIS
2	R5	329	ASN
1	R6	11	GLN
1	R6	14	ASN
1	R6	190	HIS
1	R6	191	GLN
1	R6	195	ASN
1	R6	247	ASN
1	R6	256	ASN
1	R6	329	GLN
1	R6	396	HIS
1	R6	414	ASN
1	R6	423	GLN
2	R7	8	HIS
2	R7	31	GLN
2	R7	293	ASN
2	R7	356	ASN
2	R7	372	GLN
1	R8	89	ASN
1	R8	94	GLN
1	R8	99	ASN
1	R8	204	ASN
1	R8	245	GLN
1	R8	247	ASN
1	R8	256	ASN

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Mol	Chain	Res	Type
1	R8	292	GLN
1	R8	384	GLN
1	R8	424	GLN
2	R9	8	HIS
2	R9	197	HIS
2	R9	258	ASN
2	R9	283	HIS
2	R9	309	HIS
2	R9	329	ASN
1	S0	11	GLN
1	S0	14	ASN
1	S0	89	ASN
1	S0	94	GLN
1	S0	190	HIS
1	S0	195	ASN
1	S0	245	GLN
1	S0	256	ASN
1	S0	292	GLN
1	S0	334	GLN
1	S0	347	ASN
1	S0	348	ASN
1	S0	396	HIS
1	S0	423	GLN
2	S1	88	HIS
2	S1	91	GLN
2	S1	197	HIS
2	S1	309	HIS
2	S1	356	ASN
1	S2	6	HIS
1	S2	14	ASN
1	S2	37	HIS
1	S2	94	GLN
1	S2	190	HIS
1	S2	204	ASN
1	S2	247	ASN
1	S2	329	GLN
1	S2	332	ASN
1	S2	384	GLN
1	S2	424	GLN
1	S4	6	HIS
1	S4	11	GLN
1	S4	14	ASN

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Mol	Chain	Res	Type
1	S4	89	ASN
1	S4	99	ASN
1	S4	184	ASN
1	S4	190	HIS
1	S4	245	GLN
1	S4	292	GLN
1	S4	329	GLN
1	S4	332	ASN
1	S4	334	GLN
1	S4	396	HIS
1	S4	414	ASN
2	S5	176	GLN
2	S5	192	HIS
2	S5	233	GLN
2	S5	258	ASN
2	S5	309	HIS
2	S5	342	GLN
1	S6	6	HIS
1	S6	37	HIS
1	S6	89	ASN
1	S6	227	HIS
1	S6	256	ASN
1	S6	329	GLN
1	S6	384	GLN
2	S7	11	GLN
2	S7	88	HIS
2	S7	192	HIS
2	S7	309	HIS
2	S7	329	ASN
1	S8	6	HIS
1	S8	11	GLN
1	S8	89	ASN
1	S8	99	ASN
1	S8	131	GLN
1	S8	195	ASN
1	S8	247	ASN
1	S8	256	ASN
1	S8	329	GLN
1	S8	334	GLN
1	S8	337	ASN
1	S8	348	ASN
1	S8	396	HIS

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Mol	Chain	Res	Type
2	S9	15	GLN
2	S9	18	ASN
2	S9	88	HIS
2	S9	101	ASN
2	S9	258	ASN
2	S9	309	HIS
1	T0	14	ASN
1	T0	28	HIS
1	T0	89	ASN
1	T0	190	HIS
1	T0	195	ASN
1	T0	247	ASN
1	T0	256	ASN
1	T0	292	GLN
2	T1	8	HIS
2	T1	35	GLN
2	T1	256	GLN
2	T1	283	HIS
2	T1	309	HIS
2	T1	329	ASN
1	T2	6	HIS
1	T2	11	GLN
1	T2	43	GLN
1	T2	245	GLN
1	T2	292	GLN
1	T2	298	ASN
1	T2	334	GLN
1	T2	337	ASN
1	T2	348	ASN
1	T2	396	HIS
2	T3	8	HIS
2	T3	18	ASN
2	T3	197	HIS
2	T3	309	HIS
2	T3	342	GLN
2	T3	372	GLN
2	T3	393	HIS
1	T4	14	ASN
1	T4	89	ASN
1	T4	190	HIS
1	T4	204	ASN
1	T4	245	GLN

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Mol	Chain	Res	Type
1	T4	298	ASN
1	T4	329	GLN
1	T4	334	GLN
1	T4	384	GLN
1	T4	423	GLN
2	T5	15	GLN
2	T5	133	GLN
2	T5	192	HIS
2	T5	197	HIS
2	T5	309	HIS
2	T5	329	ASN
2	T5	406	HIS
1	T6	6	HIS
1	T6	11	GLN
1	T6	14	ASN
1	T6	37	HIS
1	T6	190	HIS
1	T6	227	HIS
1	T6	256	ASN
1	T6	298	ASN
1	T6	334	GLN
1	T6	335	ASN
1	T6	337	ASN
1	T6	348	ASN
1	T6	396	HIS
1	T6	414	ASN
1	T6	423	GLN
2	T7	8	HIS
2	T7	88	HIS
2	T7	133	GLN
2	T7	228	ASN
2	T7	293	ASN
2	T7	342	GLN
2	T7	372	GLN
1	T8	14	ASN
1	T8	89	ASN
1	T8	204	ASN
1	T8	227	HIS
1	T8	256	ASN
1	T8	291	GLN
1	T8	292	GLN
1	T8	329	GLN

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Mol	Chain	Res	Type
1	T8	334	GLN
1	T8	347	ASN
1	T8	348	ASN
1	T8	384	GLN
1	T8	396	HIS
2	U1	15	GLN
2	U1	101	ASN
2	U1	133	GLN
2	U1	293	ASN
2	U1	309	HIS
1	U2	190	HIS
1	U2	226	ASN
1	U2	307	HIS
1	U2	334	GLN
1	U2	347	ASN
1	U2	396	HIS
1	U2	423	GLN
2	U3	15	GLN
2	U3	101	ASN
2	U3	228	ASN
2	U3	258	ASN
1	U4	14	ASN
1	U4	334	GLN
1	U4	348	ASN
1	U4	396	HIS
1	U4	423	GLN
2	U5	101	ASN
2	U5	133	GLN
2	U5	206	ASN
2	U5	228	ASN
2	U5	258	ASN
2	U5	285	GLN
2	U5	309	HIS
1	U6	11	GLN
1	U6	226	ASN
1	U6	245	GLN
1	U6	292	GLN
1	U6	307	HIS
1	U6	329	GLN
1	U6	332	ASN
1	U6	334	GLN
1	U6	347	ASN

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Mol	Chain	Res	Type
1	U6	396	HIS
2	U7	15	GLN
2	U7	101	ASN
2	U7	133	GLN
2	U7	206	ASN
2	U7	285	GLN
2	U7	293	ASN
2	U7	309	HIS
2	U7	329	ASN
2	U7	406	HIS
1	U8	332	ASN
1	U8	335	ASN
2	U9	15	GLN
2	U9	101	ASN
2	U9	133	GLN
2	U9	176	GLN
2	U9	206	ASN
2	U9	249	ASN
2	U9	285	GLN
2	U9	293	ASN
2	U9	309	HIS
1	V0	190	HIS
1	V0	256	ASN
1	V0	347	ASN
1	V0	396	HIS
1	V0	423	GLN
2	V1	8	HIS
2	V1	61	HIS
2	V1	88	HIS
2	V1	133	GLN
2	V1	176	GLN
2	V1	258	ASN
2	V1	285	GLN
2	V1	309	HIS
2	V1	406	HIS
1	V2	105	HIS
1	V2	190	HIS
1	V2	396	HIS
2	V3	8	HIS
2	V3	15	GLN
2	V3	88	HIS
2	V3	101	ASN

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Mol	Chain	Res	Type
2	V3	249	ASN
2	V3	285	GLN
2	V3	309	HIS
2	V3	329	ASN
2	V3	356	ASN
1	V4	190	HIS
1	V4	195	ASN
1	V4	226	ASN
1	V4	329	GLN
1	V4	335	ASN
1	V4	396	HIS
1	V6	6	HIS
1	V6	14	ASN
1	V6	99	ASN
1	V6	134	GLN
1	V6	292	GLN
1	V6	347	ASN
1	V6	348	ASN
1	V6	396	HIS
2	V7	15	GLN
2	V7	31	GLN
2	V7	283	HIS
2	V7	293	ASN
2	V7	329	ASN
1	V8	105	HIS
1	V8	227	HIS
1	V8	245	GLN
1	V8	256	ASN
1	V8	292	GLN
1	V8	334	GLN
1	V8	348	ASN
1	V8	396	HIS
2	V9	8	HIS
2	V9	15	GLN
2	V9	61	HIS
2	V9	91	GLN
2	V9	309	HIS
1	W0	14	ASN
1	W0	37	HIS
1	W0	184	ASN
1	W0	227	HIS
1	W0	245	GLN

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Mol	Chain	Res	Type
1	W0	292	GLN
1	W0	332	ASN
1	W0	334	GLN
1	W0	347	ASN
1	W0	396	HIS
2	W1	15	GLN
2	W1	31	GLN
2	W1	258	ASN
2	W1	309	HIS
2	W1	342	GLN
1	W2	37	HIS
1	W2	89	ASN
1	W2	105	HIS
1	W2	245	GLN
1	W2	256	ASN
1	W2	347	ASN
1	W2	396	HIS
2	W3	15	GLN
2	W3	31	GLN
2	W3	61	HIS
2	W3	88	HIS
2	W3	258	ASN
2	W3	293	ASN
2	W3	309	HIS
1	W4	6	HIS
1	W4	14	ASN
1	W4	227	HIS
1	W4	256	ASN
1	W4	292	GLN
1	W4	332	ASN
1	W4	334	GLN
1	W4	347	ASN
1	W4	348	ASN
1	W4	396	HIS
2	W5	15	GLN
2	W5	31	GLN
2	W5	61	HIS
2	W5	309	HIS
1	W6	14	ASN
1	W6	247	ASN
1	W6	292	GLN
1	W6	334	GLN

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Mol	Chain	Res	Type
1	W6	396	HIS
2	W7	8	HIS
2	W7	15	GLN
2	W7	31	GLN
2	W7	61	HIS
2	W7	88	HIS
2	W7	133	GLN
2	W7	176	GLN
2	W7	283	HIS
2	W7	309	HIS
2	W7	329	ASN
1	W8	37	HIS
1	W8	131	GLN
1	W8	190	HIS
1	W8	245	GLN
1	W8	292	GLN
1	W8	334	GLN
1	W8	348	ASN
1	W8	396	HIS
2	W9	11	GLN
2	W9	15	GLN
2	W9	258	ASN
2	W9	309	HIS
1	X0	14	ASN
1	X0	43	GLN
1	X0	190	HIS
1	X0	245	GLN
1	X0	247	ASN
1	X0	256	ASN
1	X0	280	GLN
1	X0	334	GLN
1	X0	414	ASN
1	X0	423	GLN
1	X2	99	ASN
1	X2	134	GLN
1	X2	191	GLN
1	X2	227	HIS
1	X2	247	ASN
1	X2	279	GLN
1	X2	280	GLN
1	X2	292	GLN
1	X2	329	GLN

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Mol	Chain	Res	Type
1	X2	334	GLN
1	X2	337	ASN
1	X2	348	ASN
1	X2	396	HIS
1	X2	416	ASN
2	X3	233	GLN
2	X3	258	ASN
2	X3	293	ASN
2	X3	329	ASN
1	X4	48	ASN
1	X4	99	ASN
1	X4	134	GLN
1	X4	190	HIS
1	X4	195	ASN
1	X4	204	ASN
1	X4	227	HIS
1	X4	256	ASN
1	X4	396	HIS
1	X4	416	ASN
2	X5	28	HIS
2	X5	309	HIS
1	X6	99	ASN
1	X6	134	GLN
1	X6	190	HIS
1	X6	227	HIS
1	X6	256	ASN
1	X6	279	GLN
1	X6	280	GLN
1	X6	334	GLN
1	X6	348	ASN
2	X7	233	GLN
2	X7	258	ASN
2	X7	293	ASN
2	X7	329	ASN
1	X8	14	ASN
1	X8	99	ASN
1	X8	131	GLN
1	X8	190	HIS
1	X8	204	ASN
1	X8	227	HIS
1	X8	245	GLN
1	X8	256	ASN

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Mol	Chain	Res	Type
1	X8	396	HIS
2	X9	61	HIS
2	X9	226	ASN
2	X9	283	HIS
2	X9	309	HIS
1	Y0	99	ASN
1	Y0	131	GLN
1	Y0	190	HIS
1	Y0	191	GLN
1	Y0	227	HIS
1	Y0	256	ASN
1	Y0	280	GLN
1	Y0	347	ASN
1	Y0	396	HIS
1	Y0	416	ASN
2	Y1	31	GLN
1	Y2	37	HIS
1	Y2	99	ASN
1	Y2	227	HIS
1	Y2	256	ASN
1	Y2	264	HIS
1	Y2	292	GLN
1	Y2	332	ASN
1	Y2	348	ASN
1	Y2	396	HIS
2	Y3	31	GLN
2	Y3	88	HIS
2	Y3	176	GLN
2	Y3	233	GLN
2	Y3	258	ASN
2	Y3	372	GLN
1	Y4	227	HIS
1	Y4	245	GLN
1	Y4	256	ASN
1	Y4	347	ASN
1	Y4	348	ASN
1	Y4	396	HIS
2	Y5	31	GLN
2	Y5	88	HIS
2	Y5	258	ASN
2	Y5	309	HIS
1	Y6	14	ASN

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Mol	Chain	Res	Type
1	Y6	227	HIS
1	Y6	256	ASN
1	Y6	280	GLN
1	Y6	332	ASN
1	Y6	334	GLN
1	Y6	335	ASN
1	Y6	348	ASN
1	Y6	416	ASN
1	Y8	190	HIS
1	Y8	292	GLN
1	Y8	384	GLN
1	Y8	396	HIS
1	Y8	414	ASN
2	Y9	11	GLN
2	Y9	15	GLN
2	Y9	258	ASN
2	Y9	285	GLN
2	Y9	380	ASN
2	Y9	393	HIS
1	Z0	37	HIS
1	Z0	48	ASN
1	Z0	131	GLN
1	Z0	204	ASN
1	Z0	256	ASN
1	Z0	337	ASN
1	Z0	348	ASN
1	Z0	396	HIS
2	Z1	18	ASN
2	Z1	31	GLN
2	Z1	107	HIS
2	Z1	133	GLN
2	Z1	233	GLN
2	Z1	329	ASN
2	Z1	393	HIS
1	Z2	204	ASN
1	Z2	245	GLN
1	Z2	256	ASN
1	Z2	332	ASN
1	Z2	348	ASN
1	Z2	384	GLN
1	Z2	396	HIS
1	Z2	416	ASN

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Mol	Chain	Res	Type
2	Z3	11	GLN
2	Z3	61	HIS
2	Z3	228	ASN
2	Z3	285	GLN
2	Z3	309	HIS
1	Z4	14	ASN
1	Z4	204	ASN
1	Z4	227	HIS
1	Z4	256	ASN
1	Z4	396	HIS
2	Z5	8	HIS
2	Z5	18	ASN
2	Z5	88	HIS
2	Z5	226	ASN
2	Z5	228	ASN
2	Z5	309	HIS
1	Z6	14	ASN
1	Z6	131	GLN
1	Z6	204	ASN
1	Z6	227	HIS
1	Z6	256	ASN
1	Z6	334	GLN
1	Z6	396	HIS
2	Z7	11	GLN
2	Z7	18	ASN
2	Z7	28	HIS
2	Z7	101	ASN
2	Z7	107	HIS
2	Z7	128	ASN
2	Z7	133	GLN
2	Z7	192	HIS
2	Z7	226	ASN
2	Z7	309	HIS
2	Z7	329	ASN
2	Z7	393	HIS
1	Z8	131	GLN
1	Z8	204	ASN
1	Z8	227	HIS
1	Z8	256	ASN
1	Z8	396	HIS
2	Z9	101	ASN
2	Z9	133	GLN

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Mol	Chain	Res	Type
2	Z9	283	HIS
2	Z9	393	HIS
1	0A	6	HIS
1	0A	204	ASN
1	0A	227	HIS
1	0A	256	ASN
1	0A	334	GLN
1	0A	335	ASN
1	0A	396	HIS
1	0A	416	ASN
2	0B	11	GLN
2	0B	15	GLN
2	0B	61	HIS
2	0B	233	GLN
2	0B	393	HIS
1	0C	6	HIS
1	0C	8	GLN
1	0C	94	GLN
1	0C	204	ASN
1	0C	227	HIS
1	0C	247	ASN
1	0C	334	GLN
1	0C	335	ASN
1	0C	347	ASN
1	0C	348	ASN
1	0C	384	GLN
1	0E	11	GLN
1	0E	190	HIS
1	0E	247	ASN
1	0E	292	GLN
1	0E	329	GLN
1	0E	334	GLN
1	0E	414	ASN
2	0F	8	HIS
2	0F	133	GLN
2	0F	293	ASN
2	0F	309	HIS
2	0F	356	ASN
1	0G	8	GLN
1	0G	37	HIS
1	0G	105	HIS
1	0G	190	HIS

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Mol	Chain	Res	Type
1	0G	334	GLN
1	0G	348	ASN
1	0G	384	GLN
1	0G	396	HIS
2	0H	8	HIS
2	0H	11	GLN
2	0H	101	ASN
2	0H	107	HIS
2	0H	133	GLN
2	0H	228	ASN
2	0H	293	ASN
2	0H	309	HIS
2	0H	356	ASN
1	0I	131	GLN
1	0I	190	HIS
1	0I	204	ASN
1	0I	247	ASN
1	0I	292	GLN
1	0I	334	GLN
1	0I	335	ASN
1	0I	396	HIS
2	0J	8	HIS
2	0J	228	ASN
2	0J	258	ASN
2	0J	342	GLN
2	0J	406	HIS
1	0K	11	GLN
1	0K	190	HIS
1	0K	204	ASN
1	0K	226	ASN
1	0K	256	ASN
2	0L	8	HIS
2	0L	107	HIS
2	0L	192	HIS
2	0L	258	ASN
2	0L	293	ASN
2	0L	309	HIS
2	0L	356	ASN
2	0L	406	HIS
1	0M	14	ASN
1	0M	190	HIS
1	0M	204	ASN

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Mol	Chain	Res	Type
1	0M	247	ASN
1	0M	292	GLN
1	0M	334	GLN
1	0M	335	ASN
1	0M	396	HIS
2	0N	8	HIS
2	0N	11	GLN
2	0N	101	ASN
2	0N	107	HIS
2	0N	283	HIS
2	0N	293	ASN
2	0N	309	HIS
2	0N	406	HIS
1	0O	99	ASN
1	0O	134	GLN
1	0O	190	HIS
1	0O	204	ASN
1	0O	256	ASN
1	0O	334	GLN
1	0O	348	ASN
1	0O	384	GLN
1	0O	396	HIS
2	0P	258	ASN
2	0P	283	HIS
2	0P	293	ASN
2	0P	309	HIS
2	0P	329	ASN
1	0Q	8	GLN
1	0Q	190	HIS
1	0Q	245	GLN
1	0Q	247	ASN
1	0Q	291	GLN
1	0Q	292	GLN
1	0Q	334	GLN
1	0Q	348	ASN
1	0Q	396	HIS
2	0R	8	HIS
2	0R	101	ASN
2	0R	133	GLN
2	0R	293	ASN
2	0R	309	HIS
2	0R	356	ASN

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Mol	Chain	Res	Type
1	0S	6	HIS
1	0S	99	ASN
1	0S	105	HIS
1	0S	131	GLN
1	0S	247	ASN
1	0S	292	GLN
1	0S	334	GLN
1	0S	335	ASN
1	0S	384	GLN
1	0U	137	HIS
1	0U	184	ASN
1	0U	190	HIS
1	0U	247	ASN
1	0U	256	ASN
1	0U	292	GLN
1	0U	334	GLN
2	0V	101	ASN
2	0V	258	ASN
2	0V	293	ASN
2	0V	309	HIS
2	0V	342	GLN
1	0W	190	HIS
1	0W	292	GLN
1	0W	334	GLN
1	0W	348	ASN
1	0W	384	GLN
1	0W	396	HIS
1	0W	423	GLN
2	0X	101	ASN
2	0X	256	GLN
2	0X	285	GLN
2	0X	293	ASN
1	0Y	11	GLN
1	0Y	48	ASN
1	0Y	332	ASN
1	0Y	334	GLN
1	0Y	396	HIS
2	0Z	88	HIS
2	0Z	128	ASN
2	0Z	293	ASN
2	0Z	329	ASN
1	1A	6	HIS

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Mol	Chain	Res	Type
1	1A	14	ASN
1	1A	137	HIS
1	1A	190	HIS
1	1A	204	ASN
1	1A	247	ASN
1	1A	291	GLN
1	1A	292	GLN
1	1A	334	GLN
1	1A	335	ASN
1	1A	348	ASN
1	1A	384	GLN
2	1B	133	GLN
2	1B	258	ASN
2	1B	283	HIS
2	1B	293	ASN
2	1B	329	ASN
2	1B	406	HIS
1	1C	14	ASN
1	1C	89	ASN
1	1C	184	ASN
1	1C	190	HIS
1	1C	292	GLN
1	1C	334	GLN
1	1C	335	ASN
1	1C	384	GLN
1	1C	396	HIS
2	1D	28	HIS
2	1D	107	HIS
2	1D	256	GLN
2	1D	258	ASN
2	1D	309	HIS
2	1D	342	GLN
1	1E	14	ASN
1	1E	137	HIS
1	1E	190	HIS
1	1E	247	ASN
1	1E	264	HIS
1	1E	298	ASN
1	1E	332	ASN
1	1E	334	GLN
1	1E	348	ASN
1	1E	396	HIS

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Mol	Chain	Res	Type
2	1F	8	HIS
2	1F	11	GLN
2	1F	88	HIS
2	1F	101	ASN
2	1F	258	ASN
2	1F	293	ASN
1	1G	264	HIS
1	1G	332	ASN
1	1G	334	GLN
1	1G	335	ASN
1	1G	348	ASN
1	1G	396	HIS
2	1H	8	HIS
2	1H	11	GLN
2	1H	50	ASN
2	1H	101	ASN
2	1H	285	GLN
2	1H	293	ASN
2	1H	406	HIS
1	1K	6	HIS
1	1K	14	ASN
1	1K	89	ASN
1	1K	184	ASN
1	1K	190	HIS
1	1K	247	ASN
1	1K	256	ASN
1	1K	298	ASN
1	1K	334	GLN
1	1K	396	HIS
2	1L	31	GLN
2	1L	88	HIS
2	1L	192	HIS
2	1L	249	ASN
2	1L	293	ASN
2	1L	309	HIS
2	1L	406	HIS
1	1M	6	HIS
1	1M	14	ASN
1	1M	190	HIS
1	1M	195	ASN
1	1M	245	GLN
1	1M	264	HIS

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Mol	Chain	Res	Type
1	1M	279	GLN
1	1M	292	GLN
1	1M	334	GLN
1	1M	335	ASN
1	1M	384	GLN
1	1M	396	HIS
2	1N	15	GLN
2	1N	28	HIS
2	1N	85	GLN
2	1N	133	GLN
2	1N	258	ASN
2	1N	293	ASN
1	1O	137	HIS
1	1O	190	HIS
1	1O	195	ASN
1	1O	227	HIS
1	1O	334	GLN
1	1O	347	ASN
1	1O	396	HIS
2	1P	258	ASN
2	1P	309	HIS
2	1P	372	GLN
2	1P	406	HIS
1	1Q	190	HIS
1	1Q	264	HIS
1	1Q	292	GLN
1	1Q	334	GLN
1	1Q	396	HIS
2	1R	88	HIS
2	1R	258	ASN
2	1R	293	ASN
2	1R	309	HIS
2	1R	329	ASN
1	1S	14	ASN
1	1S	190	HIS
1	1S	334	GLN
1	1S	335	ASN
1	1S	348	ASN
1	1S	396	HIS
2	1T	233	GLN
2	1T	249	ASN
2	1T	258	ASN

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Mol	Chain	Res	Type
2	1T	283	HIS
2	1T	293	ASN
2	1T	309	HIS
2	1T	329	ASN
2	1T	406	HIS
1	1U	6	HIS
1	1U	14	ASN
1	1U	245	GLN
1	1U	292	GLN
1	1U	332	ASN
1	1U	334	GLN
2	1V	88	HIS
2	1V	283	HIS
2	1V	293	ASN
2	1V	309	HIS
2	1V	329	ASN
1	1W	14	ASN
1	1W	89	ASN
1	1W	190	HIS
1	1W	191	GLN
1	1W	245	GLN
1	1W	247	ASN
1	1W	292	GLN
1	1W	334	GLN
1	1W	335	ASN
1	1W	396	HIS
2	1X	8	HIS
2	1X	101	ASN
2	1X	102	ASN
2	1X	133	GLN
2	1X	192	HIS
2	1X	293	ASN
2	1X	309	HIS
2	1X	358	GLN
2	1Z	11	GLN
2	1Z	88	HIS
2	1Z	101	ASN
2	1Z	133	GLN
2	1Z	192	HIS
2	1Z	258	ASN
2	1Z	293	ASN
1	2A	14	ASN

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Mol	Chain	Res	Type
1	2A	131	GLN
1	2A	190	HIS
1	2A	204	ASN
1	2A	347	ASN
1	2A	348	ASN
1	2A	396	HIS
2	2B	293	ASN
2	2B	309	HIS
1	2C	256	ASN
1	2C	334	GLN
1	2C	335	ASN
1	2C	348	ASN
1	2C	396	HIS
2	2D	11	GLN
2	2D	18	ASN
2	2D	88	HIS
2	2D	293	ASN
2	2D	309	HIS
2	2D	372	GLN
1	2E	94	GLN
1	2E	195	ASN
1	2E	247	ASN
1	2E	256	ASN
1	2E	292	GLN
1	2E	329	GLN
1	2E	335	ASN
1	2E	348	ASN
1	2E	396	HIS
2	2F	258	ASN
2	2F	285	GLN
2	2F	293	ASN
2	2F	309	HIS
2	2F	356	ASN
1	2G	14	ASN
1	2G	15	GLN
1	2G	83	GLN
1	2G	190	HIS
1	2G	204	ASN
1	2G	247	ASN
1	2G	292	GLN
1	2G	396	HIS
2	2H	8	HIS

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Mol	Chain	Res	Type
2	2H	18	ASN
2	2H	88	HIS
2	2H	285	GLN
2	2H	293	ASN
1	2I	14	ASN
1	2I	134	GLN
1	2I	396	HIS
2	2J	11	GLN
2	2J	293	ASN
2	2J	309	HIS
1	2K	134	GLN
1	2K	256	ASN
1	2K	280	GLN
1	2K	292	GLN
1	2K	347	ASN
1	2K	396	HIS
1	2K	414	ASN
2	2L	8	HIS
2	2L	61	HIS
2	2L	249	ASN
2	2L	258	ASN
2	2L	293	ASN
2	2L	309	HIS
1	2M	190	HIS
1	2M	247	ASN
1	2M	396	HIS
1	2M	414	ASN
2	2N	8	HIS
2	2N	61	HIS
2	2N	101	ASN
2	2N	285	GLN
2	2N	293	ASN
2	2N	309	HIS
2	2P	197	HIS
2	2P	293	ASN
2	2P	358	GLN
1	2Q	6	HIS
1	2Q	105	HIS
1	2Q	247	ASN
1	2Q	256	ASN
1	2Q	291	GLN
1	2Q	292	GLN

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Mol	Chain	Res	Type
1	2Q	307	HIS
1	2Q	332	ASN
1	2Q	334	GLN
1	2Q	348	ASN
1	2Q	396	HIS
2	2R	11	GLN
2	2R	128	ASN
2	2R	285	GLN
2	2R	309	HIS
1	2S	105	HIS
1	2S	247	ASN
1	2S	256	ASN
1	2S	292	GLN
1	2S	334	GLN
1	2S	348	ASN
1	2S	396	HIS
2	2T	258	ASN
2	2T	329	ASN
2	2T	358	GLN
2	2T	372	GLN
1	2U	14	ASN
1	2U	245	GLN
1	2U	292	GLN
1	2U	334	GLN
1	2U	348	ASN
1	2U	396	HIS
2	2V	11	GLN
2	2V	197	HIS
2	2V	309	HIS
1	2W	15	GLN
1	2W	99	ASN
1	2W	247	ASN
1	2W	329	GLN
1	2W	334	GLN
1	2W	396	HIS
2	2X	11	GLN
2	2X	88	HIS
2	2X	133	GLN
2	2X	358	GLN
1	2Y	14	ASN
1	2Y	43	GLN
1	2Y	99	ASN

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Mol	Chain	Res	Type
1	2Y	247	ASN
1	2Y	256	ASN
1	2Y	334	GLN
1	2Y	396	HIS
1	2Y	426	GLN
2	2Z	61	HIS
2	2Z	91	GLN
2	2Z	309	HIS
1	3A	48	ASN
1	3A	83	GLN
1	3A	247	ASN
1	3A	279	GLN
1	3A	329	GLN
1	3A	332	ASN
1	3A	334	GLN
1	3A	348	ASN
1	3A	396	HIS
2	3B	15	GLN
2	3B	85	GLN
2	3B	133	GLN
2	3B	283	HIS
2	3B	309	HIS
2	3B	358	GLN
2	3B	372	GLN
2	3B	393	HIS
1	3C	6	HIS
1	3C	14	ASN
1	3C	37	HIS
1	3C	94	GLN
1	3C	105	HIS
1	3C	190	HIS
1	3C	245	GLN
1	3C	332	ASN
1	3C	334	GLN
1	3C	347	ASN
1	3C	396	HIS
2	3D	61	HIS
2	3D	258	ASN
2	3D	285	GLN
2	3D	329	ASN
2	3F	15	GLN
2	3F	88	HIS

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Mol	Chain	Res	Type
2	3F	197	HIS
2	3F	283	HIS
2	3F	309	HIS
1	3G	6	HIS
1	3G	14	ASN
1	3G	94	GLN
1	3G	134	GLN
1	3G	190	HIS
1	3G	227	HIS
1	3G	334	GLN
1	3G	347	ASN
1	3G	396	HIS
2	3H	283	HIS
2	3H	285	GLN
2	3H	309	HIS
1	3I	6	HIS
1	3I	52	ASN
1	3I	134	GLN
1	3I	190	HIS
1	3I	227	HIS
1	3I	247	ASN
1	3I	292	GLN
1	3I	348	ASN
1	3I	396	HIS
1	3I	423	GLN
2	3J	11	GLN
2	3J	206	ASN
2	3J	249	ASN
2	3J	293	ASN
1	3K	227	HIS
1	3K	247	ASN
1	3K	334	GLN
1	3K	396	HIS
2	3L	293	ASN
2	3L	309	HIS
1	3M	14	ASN
1	3M	52	ASN
1	3M	195	ASN
1	3M	204	ASN
1	3M	247	ASN
1	3M	256	ASN
1	3M	292	GLN

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Mol	Chain	Res	Type
1	3M	334	GLN
1	3M	396	HIS
2	3N	91	GLN
2	3N	309	HIS
2	3N	372	GLN
1	3O	37	HIS
1	3O	99	ASN
1	3O	227	HIS
1	3O	256	ASN
1	3O	329	GLN
1	3O	396	HIS
2	3P	11	GLN
2	3P	233	GLN
2	3P	309	HIS
1	3Q	99	ASN
1	3Q	190	HIS
1	3Q	227	HIS
1	3Q	247	ASN
1	3Q	292	GLN
1	3Q	396	HIS
2	3R	15	GLN
2	3R	61	HIS
2	3R	197	HIS
2	3R	283	HIS
2	3R	293	ASN
2	3R	309	HIS
2	3R	356	ASN
2	3R	358	GLN
1	3S	6	HIS
1	3S	190	HIS
1	3S	227	HIS
1	3S	247	ASN
1	3S	292	GLN
1	3S	334	GLN
1	3S	335	ASN
1	3S	348	ASN
1	3S	396	HIS
2	3T	61	HIS
2	3T	206	ASN
2	3T	356	ASN
2	3T	372	GLN
3	3V	16	ASN

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Mol	Chain	Res	Type
3	3V	28	ASN
3	3V	49	HIS
3	3V	156	HIS
4	3W	7	GLN
4	3W	109	GLN
4	3W	157	HIS
4	3W	159	ASN
3	3X	16	ASN
3	3X	28	ASN
3	3X	156	HIS
4	3Y	7	GLN
4	3Y	109	GLN
4	3Y	157	HIS
4	3Y	159	ASN
3	3Z	16	ASN
3	3Z	28	ASN
3	3Z	156	HIS
4	4A	7	GLN
4	4A	109	GLN
4	4A	157	HIS
4	4A	159	ASN
3	4B	16	ASN
3	4B	28	ASN
3	4B	156	HIS
4	4C	7	GLN
4	4C	109	GLN
4	4C	157	HIS
4	4C	159	ASN
3	4D	16	ASN
3	4D	28	ASN
3	4D	49	HIS
3	4D	156	HIS
4	4E	7	GLN
4	4E	109	GLN
4	4E	157	HIS
4	4E	159	ASN
3	4F	16	ASN
3	4F	28	ASN
3	4F	156	HIS
4	4G	7	GLN
4	4G	109	GLN
4	4G	157	HIS

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Mol	Chain	Res	Type
4	4G	159	ASN
3	4H	16	ASN
3	4H	28	ASN
3	4H	156	HIS
4	4I	7	GLN
4	4I	52	GLN
4	4I	109	GLN
4	4I	157	HIS
4	4I	159	ASN
3	4J	247	ASN
3	4J	264	GLN
3	4J	283	GLN
5	4L	267	ASN
5	4L	290	GLN
5	4L	320	GLN
5	4M	177	HIS
5	4M	212	GLN
5	4M	267	ASN
5	4M	271	GLN
6	4O	332	ASN
6	4P	43	ASN
7	4R	70	GLN
7	4R	174	HIS
7	4R	361	GLN
7	4T	336	GLN
7	4T	352	ASN
7	4U	92	GLN
7	4U	121	ASN
7	4U	262	HIS
8	4V	430	GLN
8	4V	469	GLN
8	4W	151	GLN
8	4W	187	HIS
8	4W	267	ASN
8	4X	116	ASN
9	4Y	329	GLN
9	4Y	332	GLN
9	4Y	388	GLN
9	4Z	112	HIS
9	4Z	164	GLN
9	4Z	291	HIS
9	4Z	329	GLN

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Mol	Chain	Res	Type
9	4Z	405	GLN
10	5A	468	GLN
10	5C	172	GLN
10	5C	237	GLN
10	5C	384	GLN
10	5D	172	GLN
11	5E	85	ASN
11	5E	106	GLN
12	5F	53	HIS
12	5F	78	HIS
12	5F	140	GLN
12	5F	311	HIS
12	5F	316	GLN
12	5G	311	HIS
12	5G	316	GLN
12	5G	331	ASN
13	5H	9	GLN
13	5H	12	HIS
13	5H	99	ASN
13	5H	117	ASN
13	5I	9	GLN
13	5I	99	ASN
13	5I	117	ASN
13	5J	9	GLN
13	5J	21	ASN
13	5J	99	ASN
13	5K	99	ASN
14	5L	138	ASN
14	5L	146	ASN
14	5L	237	ASN
14	5L	239	GLN
14	5L	412	GLN
14	5L	424	HIS
14	5L	473	ASN
14	5M	138	ASN
14	5M	146	ASN
14	5M	237	ASN
14	5M	239	GLN
14	5M	412	GLN
14	5M	424	HIS
14	5M	473	ASN
14	5M	510	ASN

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Mol	Chain	Res	Type
14	5N	138	ASN
14	5N	146	ASN
14	5N	220	GLN
14	5N	237	ASN
14	5N	239	GLN
14	5N	424	HIS
14	5N	473	ASN
15	5O	4	ASN
15	5O	25	GLN
15	5O	182	ASN
15	5O	203	ASN
15	5O	325	GLN
15	5O	357	HIS
15	5O	370	ASN
15	5P	42	ASN
15	5P	72	GLN
15	5P	295	ASN
16	5Q	81	HIS
16	5Q	89	HIS
16	5Q	136	HIS
16	5Q	186	HIS
17	5S	101	ASN
17	5S	129	GLN
17	5T	101	ASN
17	5T	129	GLN
17	5T	179	GLN
17	5T	180	GLN
17	5U	101	ASN
17	5U	129	GLN
17	5V	179	GLN
17	5V	193	ASN
18	5X	17	HIS
18	5X	173	HIS
18	5X	181	GLN
18	5Y	17	HIS
18	5Y	173	HIS
18	5Z	17	HIS
18	5Z	173	HIS
18	6A	17	HIS
18	6A	173	HIS
18	6B	17	HIS
18	6B	173	HIS

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Mol	Chain	Res	Type
18	6C	17	HIS
18	6C	44	HIS
18	6C	173	HIS
18	6D	17	HIS
18	6D	173	HIS
19	6E	14	GLN
19	6E	67	HIS
19	6E	73	HIS
19	6E	79	HIS
20	6F	143	GLN
20	6F	150	HIS
20	6F	210	GLN
20	6F	391	ASN
21	6H	61	HIS
21	6H	127	HIS
21	6H	136	GLN
22	6I	125	ASN
22	6I	181	ASN
22	6I	182	ASN
22	6I	203	HIS
22	6I	351	ASN
22	6J	87	GLN
22	6J	92	GLN
22	6J	134	ASN
22	6J	148	ASN
22	6J	182	ASN
22	6J	209	ASN
22	6J	264	GLN
22	6J	278	GLN
22	6K	92	GLN
22	6K	134	ASN
22	6K	148	ASN
22	6K	181	ASN
22	6K	196	ASN
22	6K	203	HIS
22	6K	264	GLN
22	6L	87	GLN
22	6L	134	ASN
22	6L	136	ASN
22	6L	148	ASN
22	6L	155	ASN
22	6L	181	ASN

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Mol	Chain	Res	Type
22	6L	182	ASN
22	6L	264	GLN
22	6L	278	GLN
22	6M	87	GLN
22	6M	134	ASN
22	6M	182	ASN
22	6M	209	ASN
22	6M	264	GLN
22	6M	351	ASN
22	6N	92	GLN
22	6N	134	ASN
22	6N	136	ASN
22	6N	148	ASN
22	6N	182	ASN
22	6N	203	HIS
22	6N	264	GLN
22	6O	125	ASN
22	6O	134	ASN
22	6O	209	ASN
22	6O	264	GLN
22	6O	278	GLN
22	6O	308	HIS
22	6P	101	ASN
22	6P	136	ASN
23	6R	57	HIS
24	6T	37	ASN
24	6T	91	ASN
24	6T	110	ASN
24	6T	137	GLN
24	6T	269	ASN
24	6T	360	ASN
24	6T	369	HIS
24	6T	422	ASN
24	6T	458	HIS
24	6T	527	ASN
24	6T	545	ASN
24	6U	91	ASN
24	6U	137	GLN
24	6U	360	ASN
24	6U	440	ASN
24	6U	458	HIS
24	6U	460	HIS

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Mol	Chain	Res	Type
24	6U	527	ASN
24	6U	545	ASN
24	6V	37	ASN
24	6V	91	ASN
24	6V	110	ASN
24	6V	131	HIS
24	6V	137	GLN
24	6V	421	GLN
24	6V	422	ASN
24	6V	440	ASN
24	6V	458	HIS
24	6V	527	ASN
24	6V	545	ASN
24	6W	31	GLN
24	6W	37	ASN
24	6W	91	ASN
24	6W	110	ASN
24	6W	137	GLN
24	6W	269	ASN
24	6W	346	GLN
24	6W	440	ASN
24	6W	458	HIS
24	6W	527	ASN
24	6W	545	ASN
24	6W	565	GLN
24	6X	37	ASN
24	6X	91	ASN
24	6X	131	HIS
24	6X	137	GLN
24	6X	139	ASN
24	6X	295	HIS
24	6X	311	ASN
24	6X	377	GLN
24	6X	440	ASN
24	6X	458	HIS
24	6X	460	HIS
24	6X	489	ASN
24	6X	527	ASN
24	6X	545	ASN
24	6Y	20	GLN
24	6Y	31	GLN
24	6Y	40	GLN

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Mol	Chain	Res	Type
24	6Y	91	ASN
24	6Y	131	HIS
24	6Y	137	GLN
24	6Y	295	HIS
24	6Y	346	GLN
24	6Y	440	ASN
24	6Y	458	HIS
24	6Y	480	ASN
24	6Y	527	ASN
24	6Y	545	ASN
24	6Y	619	ASN
24	6Z	31	GLN
24	6Z	91	ASN
24	6Z	131	HIS
24	6Z	137	GLN
24	6Z	346	GLN
24	6Z	440	ASN
24	6Z	458	HIS
24	6Z	489	ASN
24	6Z	527	ASN
24	6Z	545	ASN
24	7A	91	ASN
24	7A	137	GLN
12	7B	78	HIS
26	7D	87	HIS
26	7D	91	HIS
26	7E	87	HIS
26	7E	91	HIS
26	7F	67	GLN
26	7F	69	HIS
26	7F	87	HIS
26	7F	91	HIS
26	7F	116	GLN
27	7G	49	HIS
27	7G	54	HIS
27	7G	108	ASN
27	7G	199	ASN
29	7I	19	ASN
29	7I	224	GLN
29	7I	241	ASN
29	7J	102	HIS
29	7J	117	ASN

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Mol	Chain	Res	Type
29	7J	144	GLN
29	7J	224	GLN
29	7J	238	GLN
29	7J	379	ASN
29	7J	471	HIS
30	7K	19	GLN
30	7K	61	HIS
30	7K	186	HIS
30	7K	247	HIS
30	7K	320	ASN
30	7K	350	ASN
30	7L	276	HIS
30	7L	390	GLN
30	7L	453	GLN
31	7M	66	HIS
31	7M	68	HIS
31	7N	66	HIS
31	7N	78	HIS
31	7N	115	GLN
32	7P	22	ASN
32	7P	86	HIS
32	7P	140	GLN
32	7P	213	GLN
33	7Q	132	GLN
34	7R	97	ASN
34	7R	140	ASN
34	7R	213	HIS
34	7S	140	ASN
34	7S	213	HIS
34	7S	242	ASN
35	7T	129	GLN
35	7T	137	ASN
35	7T	147	ASN
35	7T	153	ASN
35	7T	194	GLN
35	7U	74	ASN
35	7U	147	ASN
35	7U	153	ASN
35	7U	194	GLN
35	7U	221	GLN
36	7V	103	ASN
36	7W	103	ASN

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Mol	Chain	Res	Type
28	7X	355	ASN
28	7X	408	GLN
37	7Y	33	GLN
37	7Y	215	HIS
37	7Y	239	HIS
37	7Y	250	GLN
38	7Z	27	HIS
38	8A	91	GLN
38	8A	110	ASN
38	8A	161	GLN
38	8B	116	GLN
38	8B	125	ASN
38	8B	214	HIS
38	8C	2	ASN
38	8C	30	GLN
38	8C	110	ASN
38	8C	125	ASN
38	8C	161	GLN
38	8C	204	GLN
38	8C	214	HIS
38	8D	125	ASN
38	8D	209	HIS
38	8D	214	HIS

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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 510 ligands modelled in this entry, 170 are monoatomic - leaving 340 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
39	GDP	D8	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.33	4 (13%)
39	GDP	B1	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.46	4 (13%)
41	GTP	C1	501	40	26,34,34	1.22	2 (7%)	32,54,54	1.80	7 (21%)
41	GTP	K4	501	40	26,34,34	1.22	1 (3%)	32,54,54	1.68	7 (21%)
39	GDP	Q2	502	-	24,30,30	1.01	1 (4%)	30,47,47	1.38	4 (13%)
41	GTP	W2	501	40	26,34,34	1.21	2 (7%)	32,54,54	1.71	6 (18%)
39	GDP	D2	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.32	3 (10%)
39	GDP	A3	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.37	5 (16%)
39	GDP	2U	502	-	24,30,30	0.98	1 (4%)	30,47,47	1.36	5 (16%)
39	GDP	1E	501	-	24,30,30	0.98	1 (4%)	30,47,47	1.34	4 (13%)
41	GTP	3T	501	40	26,34,34	1.18	2 (7%)	32,54,54	1.60	7 (21%)
39	GDP	S4	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.36	5 (16%)
39	GDP	1Q	502	-	24,30,30	0.97	1 (4%)	30,47,47	1.32	6 (20%)
41	GTP	O8	501	40	26,34,34	1.26	2 (7%)	32,54,54	1.71	7 (21%)
39	GDP	P4	503	-	24,30,30	1.01	1 (4%)	30,47,47	1.33	4 (13%)
41	GTP	3M	501	40	26,34,34	1.28	2 (7%)	32,54,54	1.73	7 (21%)
41	GTP	0I	501	40	26,34,34	1.21	1 (3%)	32,54,54	1.62	7 (21%)
39	GDP	H4	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.43	4 (13%)
41	GTP	H3	501	40	26,34,34	1.26	1 (3%)	32,54,54	1.67	7 (21%)
41	GTP	R0	501	40	26,34,34	1.32	1 (3%)	32,54,54	1.67	6 (18%)
39	GDP	Z4	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.34	5 (16%)
41	GTP	K7	501	40	26,34,34	1.24	2 (7%)	32,54,54	1.71	7 (21%)
39	GDP	K4	502	-	24,30,30	0.96	1 (4%)	30,47,47	1.35	4 (13%)
41	GTP	Q2	501	40	26,34,34	1.32	2 (7%)	32,54,54	1.71	6 (18%)
39	GDP	L6	502	-	24,30,30	0.98	1 (4%)	30,47,47	1.43	4 (13%)
41	GTP	D7	501	40	26,34,34	1.24	1 (3%)	32,54,54	1.68	6 (18%)
41	GTP	I0	501	40	26,34,34	1.28	1 (3%)	32,54,54	1.68	7 (21%)
39	GDP	G2	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.29	3 (10%)
41	GTP	F3	501	40	26,34,34	1.19	2 (7%)	32,54,54	1.64	7 (21%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
39	GDP	O4	502	-	24,30,30	0.97	1 (4%)	30,47,47	1.44	4 (13%)
41	GTP	O4	501	40	26,34,34	1.27	2 (7%)	32,54,54	1.70	6 (18%)
41	GTP	1Q	501	40	26,34,34	1.28	2 (7%)	32,54,54	1.74	7 (21%)
39	GDP	E2	501	-	24,30,30	0.98	1 (4%)	30,47,47	1.32	4 (13%)
41	GTP	8	501	40	26,34,34	1.32	2 (7%)	32,54,54	1.74	7 (21%)
39	GDP	B5	502	-	24,30,30	0.99	1 (4%)	30,47,47	1.34	4 (13%)
39	GDP	C4	501	-	24,30,30	0.99	1 (4%)	30,47,47	1.30	4 (13%)
39	GDP	O6	502	-	24,30,30	0.99	1 (4%)	30,47,47	1.39	3 (10%)
41	GTP	W4	501	40	26,34,34	1.21	2 (7%)	32,54,54	1.71	7 (21%)
41	GTP	E4	501	40	26,34,34	1.22	1 (3%)	32,54,54	1.62	7 (21%)
39	GDP	V8	502	-	24,30,30	0.98	1 (4%)	30,47,47	1.35	5 (16%)
39	GDP	Z6	502	-	24,30,30	0.96	1 (4%)	30,47,47	1.25	4 (13%)
41	GTP	N8	501	40	26,34,34	1.28	1 (3%)	32,54,54	1.72	6 (18%)
41	GTP	1S	501	40	26,34,34	1.25	2 (7%)	32,54,54	1.71	7 (21%)
39	GDP	P6	503	-	24,30,30	1.03	1 (4%)	30,47,47	1.34	4 (13%)
41	GTP	0M	501	40	26,34,34	1.25	1 (3%)	32,54,54	1.64	6 (18%)
41	GTP	X7	501	40	26,34,34	1.20	1 (3%)	32,54,54	1.53	5 (15%)
39	GDP	Z8	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.28	3 (10%)
39	GDP	A5	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.41	4 (13%)
41	GTP	X0	501	40	26,34,34	1.21	2 (7%)	32,54,54	1.61	7 (21%)
39	GDP	0U	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.38	6 (20%)
39	GDP	2Q	502	-	24,30,30	0.98	1 (4%)	30,47,47	1.33	6 (20%)
39	GDP	A9	502	-	24,30,30	0.99	1 (4%)	30,47,47	1.37	4 (13%)
41	GTP	N0	501	40	26,34,34	1.27	1 (3%)	32,54,54	1.66	7 (21%)
41	GTP	0F	501	40	26,34,34	1.20	1 (3%)	32,54,54	1.65	6 (18%)
39	GDP	S2	502	-	24,30,30	0.98	1 (4%)	30,47,47	1.42	4 (13%)
41	GTP	H2	501	40	26,34,34	1.24	2 (7%)	32,54,54	1.64	7 (21%)
41	GTP	T4	501	40	26,34,34	1.30	2 (7%)	32,54,54	1.73	6 (18%)
41	GTP	3K	501	40	26,34,34	1.26	1 (3%)	32,54,54	1.69	7 (21%)
39	GDP	B8	501	-	24,30,30	0.98	1 (4%)	30,47,47	1.40	4 (13%)
41	GTP	0V	501	40	26,34,34	1.21	2 (7%)	32,54,54	1.66	7 (21%)
39	GDP	0A	503	-	24,30,30	0.97	1 (4%)	30,47,47	1.39	4 (13%)
39	GDP	1A	503	-	24,30,30	0.99	1 (4%)	30,47,47	1.31	5 (16%)
41	GTP	P6	501	40	26,34,34	1.35	3 (11%)	32,54,54	1.69	6 (18%)
41	GTP	J6	501	40	26,34,34	1.25	2 (7%)	32,54,54	1.73	7 (21%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
41	GTP	2E	501	40	26,34,34	1.21	2 (7%)	32,54,54	1.66	7 (21%)
39	GDP	A7	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.40	4 (13%)
39	GDP	3O	502	-	24,30,30	0.99	1 (4%)	30,47,47	1.40	4 (13%)
39	GDP	Z2	503	-	24,30,30	0.95	1 (4%)	30,47,47	1.26	4 (13%)
39	GDP	3M	502	-	24,30,30	0.97	1 (4%)	30,47,47	1.40	4 (13%)
39	GDP	X6	502	-	24,30,30	0.94	1 (4%)	30,47,47	1.40	4 (13%)
41	GTP	B2	501	40	26,34,34	1.26	1 (3%)	32,54,54	1.80	7 (21%)
41	GTP	C5	501	40	26,34,34	1.26	2 (7%)	32,54,54	1.73	7 (21%)
41	GTP	1T	501	40	26,34,34	1.24	2 (7%)	32,54,54	1.66	7 (21%)
41	GTP	2A	501	40	26,34,34	1.18	2 (7%)	32,54,54	1.69	6 (18%)
39	GDP	2S	502	-	24,30,30	1.00	1 (4%)	30,47,47	1.33	5 (16%)
39	GDP	1O	501	-	24,30,30	0.98	1 (4%)	30,47,47	1.35	4 (13%)
41	GTP	K0	501	40	26,34,34	1.24	1 (3%)	32,54,54	1.70	7 (21%)
41	GTP	3S	501	40	26,34,34	1.27	2 (7%)	32,54,54	1.74	7 (21%)
39	GDP	R4	502	-	24,30,30	0.99	1 (4%)	30,47,47	1.46	5 (16%)
39	GDP	V0	501	-	24,30,30	0.98	1 (4%)	30,47,47	1.39	4 (13%)
41	GTP	A1	501	40	26,34,34	1.26	1 (3%)	32,54,54	1.74	7 (21%)
41	GTP	I5	501	40	26,34,34	1.20	2 (7%)	32,54,54	1.66	7 (21%)
39	GDP	F0	502	-	24,30,30	0.98	1 (4%)	30,47,47	1.31	5 (16%)
39	GDP	J0	502	-	24,30,30	0.98	1 (4%)	30,47,47	1.36	4 (13%)
41	GTP	M0	501	40	26,34,34	1.22	1 (3%)	32,54,54	1.74	7 (21%)
39	GDP	B3	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.38	4 (13%)
41	GTP	X6	501	40	26,34,34	1.22	1 (3%)	32,54,54	1.64	6 (18%)
41	GTP	N3	501	40	26,34,34	1.12	2 (7%)	32,54,54	1.53	7 (21%)
41	GTP	J4	501	40	26,34,34	1.29	1 (3%)	32,54,54	1.74	7 (21%)
39	GDP	J8	502	-	24,30,30	0.99	1 (4%)	30,47,47	1.34	5 (16%)
39	GDP	W2	503	-	24,30,30	0.98	1 (4%)	30,47,47	1.38	5 (16%)
41	GTP	L2	501	40	26,34,34	1.27	2 (7%)	32,54,54	1.69	7 (21%)
39	GDP	U4	502	-	24,30,30	0.98	1 (4%)	30,47,47	1.36	5 (16%)
39	GDP	F2	501	-	24,30,30	0.98	1 (4%)	30,47,47	1.40	4 (13%)
41	GTP	I1	501	40	26,34,34	1.27	1 (3%)	32,54,54	1.67	7 (21%)
41	GTP	2L	501	40	26,34,34	1.24	2 (7%)	32,54,54	1.72	7 (21%)
39	GDP	1W	502	-	24,30,30	0.96	1 (4%)	30,47,47	1.38	4 (13%)
39	GDP	N8	502	-	24,30,30	1.01	1 (4%)	30,47,47	1.33	3 (10%)
41	GTP	Y1	501	40	26,34,34	1.21	1 (3%)	32,54,54	1.69	7 (21%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
41	GTP	B5	501	40	26,34,34	1.26	1 (3%)	32,54,54	1.77	7 (21%)
39	GDP	M0	502	-	24,30,30	0.96	1 (4%)	30,47,47	1.34	5 (16%)
39	GDP	I2	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.41	4 (13%)
41	GTP	M2	501	40	26,34,34	1.24	1 (3%)	32,54,54	1.68	7 (21%)
39	GDP	Q8	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.31	4 (13%)
41	GTP	1L	501	40	26,34,34	1.24	2 (7%)	32,54,54	1.70	7 (21%)
39	GDP	T0	501	-	24,30,30	0.99	1 (4%)	30,47,47	1.41	5 (16%)
39	GDP	J2	502	-	24,30,30	0.98	1 (4%)	30,47,47	1.42	4 (13%)
41	GTP	3A	501	40	26,34,34	1.29	2 (7%)	32,54,54	1.80	7 (21%)
41	GTP	J0	501	40	26,34,34	1.25	1 (3%)	32,54,54	1.72	7 (21%)
39	GDP	T4	502	-	24,30,30	0.98	1 (4%)	30,47,47	1.35	5 (16%)
39	GDP	P8	502	-	24,30,30	1.00	1 (4%)	30,47,47	1.28	3 (10%)
41	GTP	3D	501	40	26,34,34	1.19	2 (7%)	32,54,54	1.69	7 (21%)
39	GDP	S6	501	-	24,30,30	0.98	1 (4%)	30,47,47	1.36	4 (13%)
41	GTP	0K	501	40	26,34,34	1.24	1 (3%)	32,54,54	1.64	7 (21%)
41	GTP	1H	501	40	26,34,34	1.17	2 (7%)	32,54,54	1.65	7 (21%)
39	GDP	W8	503	-	24,30,30	0.96	1 (4%)	30,47,47	1.42	4 (13%)
41	GTP	2Q	501	40	26,34,34	1.27	3 (11%)	32,54,54	1.67	7 (21%)
39	GDP	D0	501	-	24,30,30	1.02	1 (4%)	30,47,47	1.37	3 (10%)
39	GDP	X8	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.36	4 (13%)
41	GTP	S2	501	40	26,34,34	1.32	1 (3%)	32,54,54	1.65	6 (18%)
41	GTP	T6	501	40	26,34,34	1.32	2 (7%)	32,54,54	1.72	6 (18%)
41	GTP	U7	501	40	26,34,34	1.27	2 (7%)	32,54,54	1.68	7 (21%)
41	GTP	G9	501	40	26,34,34	1.20	2 (7%)	32,54,54	1.63	7 (21%)
41	GTP	Y6	501	40	26,34,34	1.17	1 (3%)	32,54,54	1.65	6 (18%)
39	GDP	D4	501	-	24,30,30	0.99	1 (4%)	30,47,47	1.34	3 (10%)
41	GTP	F1	501	40	26,34,34	1.24	1 (3%)	32,54,54	1.67	7 (21%)
41	GTP	A9	501	40	26,34,34	1.27	1 (3%)	32,54,54	1.74	7 (21%)
41	GTP	L6	501	40	26,34,34	1.26	2 (7%)	32,54,54	1.68	7 (21%)
41	GTP	K1	501	40	26,34,34	1.16	2 (7%)	32,54,54	1.57	7 (21%)
41	GTP	2W	501	40	26,34,34	1.31	2 (7%)	32,54,54	1.73	7 (21%)
41	GTP	1N	501	40	26,34,34	1.24	1 (3%)	32,54,54	1.65	7 (21%)
39	GDP	5	501	-	24,30,30	0.99	1 (4%)	30,47,47	1.38	4 (13%)
41	GTP	A4	501	40	26,34,34	1.25	1 (3%)	32,54,54	1.70	7 (21%)
39	GDP	U6	502	-	24,30,30	0.97	1 (4%)	30,47,47	1.44	4 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
39	GDP	0M	502	-	24,30,30	0.99	1 (4%)	30,47,47	1.32	5 (16%)
39	GDP	2K	502	-	24,30,30	0.99	1 (4%)	30,47,47	1.35	4 (13%)
39	GDP	2W	502	-	24,30,30	0.99	1 (4%)	30,47,47	1.33	5 (16%)
41	GTP	I4	501	40	26,34,34	1.26	2 (7%)	32,54,54	1.66	7 (21%)
39	GDP	R2	502	-	24,30,30	0.98	1 (4%)	30,47,47	1.31	4 (13%)
41	GTP	S9	501	40	26,34,34	0.98	2 (7%)	32,54,54	0.96	2 (6%)
39	GDP	1G	502	-	24,30,30	0.97	1 (4%)	30,47,47	1.41	4 (13%)
39	GDP	0W	502	-	24,30,30	0.98	1 (4%)	30,47,47	1.42	4 (13%)
39	GDP	2G	502	-	24,30,30	1.01	1 (4%)	30,47,47	1.29	4 (13%)
41	GTP	G5	501	40	26,34,34	1.26	1 (3%)	32,54,54	1.64	6 (18%)
39	GDP	G8	501	-	24,30,30	0.99	1 (4%)	30,47,47	1.33	4 (13%)
41	GTP	2K	501	40	26,34,34	1.23	1 (3%)	32,54,54	1.74	7 (21%)
41	GTP	Z2	501	40	26,34,34	1.21	2 (7%)	32,54,54	1.59	6 (18%)
41	GTP	K6	501	40	26,34,34	1.25	1 (3%)	32,54,54	1.70	7 (21%)
41	GTP	C0	501	40	26,34,34	1.23	2 (7%)	32,54,54	1.77	7 (21%)
39	GDP	G4	502	-	24,30,30	0.97	1 (4%)	30,47,47	1.31	4 (13%)
39	GDP	0O	502	-	24,30,30	0.97	1 (4%)	30,47,47	1.26	5 (16%)
39	GDP	M2	502	-	24,30,30	0.93	1 (4%)	30,47,47	1.33	4 (13%)
39	GDP	C2	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.36	5 (16%)
41	GTP	R8	501	40	26,34,34	1.30	2 (7%)	32,54,54	1.72	6 (18%)
41	GTP	R6	501	40	26,34,34	1.30	2 (7%)	32,54,54	1.69	6 (18%)
41	GTP	F8	501	40	26,34,34	1.26	1 (3%)	32,54,54	1.62	7 (21%)
41	GTP	R4	501	40	26,34,34	1.30	2 (7%)	32,54,54	1.69	6 (18%)
39	GDP	T2	502	-	24,30,30	0.98	1 (4%)	30,47,47	1.41	3 (10%)
41	GTP	W5	501	40	26,34,34	1.23	2 (7%)	32,54,54	1.76	7 (21%)
39	GDP	O2	502	-	24,30,30	1.02	1 (4%)	30,47,47	1.35	4 (13%)
39	GDP	N6	503	-	24,30,30	0.97	1 (4%)	30,47,47	1.36	4 (13%)
39	GDP	T8	502	-	24,30,30	0.97	1 (4%)	30,47,47	1.39	5 (16%)
41	GTP	S5	501	40	26,34,34	1.28	1 (3%)	32,54,54	1.75	6 (18%)
39	GDP	K6	502	-	24,30,30	0.96	1 (4%)	30,47,47	1.38	4 (13%)
39	GDP	C0	502	-	24,30,30	0.98	1 (4%)	30,47,47	1.41	4 (13%)
39	GDP	2A	502	-	24,30,30	0.98	1 (4%)	30,47,47	1.33	4 (13%)
39	GDP	K0	502	-	24,30,30	0.95	1 (4%)	30,47,47	1.31	5 (16%)
39	GDP	W0	502	-	24,30,30	0.99	1 (4%)	30,47,47	1.40	4 (13%)
41	GTP	L7	501	40	26,34,34	1.18	2 (7%)	32,54,54	1.60	7 (21%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
39	GDP	X2	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.28	4 (13%)
41	GTP	3P	501	40	26,34,34	1.28	2 (7%)	32,54,54	1.67	7 (21%)
39	GDP	D6	501	-	24,30,30	0.99	1 (4%)	30,47,47	1.38	3 (10%)
39	GDP	Y2	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.38	4 (13%)
39	GDP	2E	502	-	24,30,30	0.98	1 (4%)	30,47,47	1.32	4 (13%)
41	GTP	H8	501	40	26,34,34	1.28	1 (3%)	32,54,54	1.68	7 (21%)
39	GDP	3A	502	-	24,30,30	0.99	1 (4%)	30,47,47	1.40	5 (16%)
41	GTP	2I	501	40	26,34,34	1.24	1 (3%)	32,54,54	1.70	7 (21%)
39	GDP	E0	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.30	3 (10%)
41	GTP	V2	501	40	26,34,34	1.23	2 (7%)	32,54,54	1.73	7 (21%)
39	GDP	O0	503	-	24,30,30	1.00	1 (4%)	30,47,47	1.34	4 (13%)
41	GTP	2G	501	40	26,34,34	1.23	2 (7%)	32,54,54	1.69	6 (18%)
41	GTP	O2	501	40	26,34,34	1.27	2 (7%)	32,54,54	1.61	6 (18%)
41	GTP	S8	501	40	26,34,34	1.29	2 (7%)	32,54,54	1.71	7 (21%)
41	GTP	J2	501	40	26,34,34	1.23	1 (3%)	32,54,54	1.70	7 (21%)
39	GDP	3G	502	-	24,30,30	0.99	1 (4%)	30,47,47	1.35	5 (16%)
41	GTP	L4	501	40	26,34,34	1.25	1 (3%)	32,54,54	1.71	7 (21%)
41	GTP	W0	501	40	26,34,34	1.20	2 (7%)	32,54,54	1.69	7 (21%)
39	GDP	X0	502	-	24,30,30	0.95	1 (4%)	30,47,47	1.33	4 (13%)
39	GDP	0C	502	-	24,30,30	0.95	1 (4%)	30,47,47	1.31	4 (13%)
41	GTP	1X	501	40	26,34,34	1.20	2 (7%)	32,54,54	1.67	7 (21%)
39	GDP	1S	502	-	24,30,30	0.98	1 (4%)	30,47,47	1.38	4 (13%)
41	GTP	G1	501	40	26,34,34	1.26	1 (3%)	32,54,54	1.72	6 (18%)
39	GDP	M6	502	-	24,30,30	0.96	1 (4%)	30,47,47	1.35	5 (16%)
41	GTP	O9	501	40	26,34,34	1.23	1 (3%)	32,54,54	1.70	7 (21%)
39	GDP	2M	501	-	24,30,30	0.98	1 (4%)	30,47,47	1.37	4 (13%)
41	GTP	Q4	501	40	26,34,34	1.34	2 (7%)	32,54,54	1.70	6 (18%)
39	GDP	C6	501	-	24,30,30	0.99	1 (4%)	30,47,47	1.42	4 (13%)
39	GDP	3C	502	-	24,30,30	0.99	1 (4%)	30,47,47	1.35	5 (16%)
39	GDP	9	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.34	4 (13%)
39	GDP	M4	502	-	24,30,30	0.94	1 (4%)	30,47,47	1.36	4 (13%)
41	GTP	2Y	501	40	26,34,34	1.27	2 (7%)	32,54,54	1.69	7 (21%)
39	GDP	S0	502	-	24,30,30	1.00	1 (4%)	30,47,47	1.27	4 (13%)
41	GTP	Z3	501	40	26,34,34	1.27	1 (3%)	32,54,54	1.60	6 (18%)
41	GTP	2C	501	40	26,34,34	1.22	1 (3%)	32,54,54	1.69	6 (18%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
39	GDP	3S	502	-	24,30,30	1.00	1 (4%)	30,47,47	1.34	4 (13%)
39	GDP	J4	503	-	24,30,30	0.98	1 (4%)	30,47,47	1.37	5 (16%)
39	GDP	0K	502	-	24,30,30	0.97	1 (4%)	30,47,47	1.31	4 (13%)
39	GDP	G0	502	-	24,30,30	0.98	1 (4%)	30,47,47	1.41	5 (16%)
39	GDP	L0	501	-	24,30,30	0.98	1 (4%)	30,47,47	1.37	4 (13%)
41	GTP	H6	501	40	26,34,34	1.26	1 (3%)	32,54,54	1.67	7 (21%)
39	GDP	Q0	501	-	24,30,30	1.00	1 (4%)	30,47,47	1.28	4 (13%)
39	GDP	H6	502	-	24,30,30	0.97	1 (4%)	30,47,47	1.42	4 (13%)
39	GDP	L4	502	-	24,30,30	0.99	1 (4%)	30,47,47	1.33	5 (16%)
39	GDP	T6	502	-	24,30,30	1.02	1 (4%)	30,47,47	1.38	4 (13%)
39	GDP	E6	502	-	24,30,30	0.99	1 (4%)	30,47,47	1.41	4 (13%)
41	GTP	O6	501	40	26,34,34	1.23	1 (3%)	32,54,54	1.67	6 (18%)
41	GTP	0O	501	40	26,34,34	1.22	2 (7%)	32,54,54	1.61	7 (21%)
41	GTP	7	501	40	26,34,34	1.31	2 (7%)	32,54,54	1.71	7 (21%)
39	GDP	W6	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.37	4 (13%)
41	GTP	1C	501	40	26,34,34	1.22	1 (3%)	32,54,54	1.63	7 (21%)
39	GDP	N2	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.33	5 (16%)
39	GDP	1K	501	-	24,30,30	0.98	1 (4%)	30,47,47	1.37	4 (13%)
39	GDP	3Q	501	-	24,30,30	0.99	1 (4%)	30,47,47	1.41	4 (13%)
39	GDP	7	502	-	24,30,30	0.99	1 (4%)	30,47,47	1.42	4 (13%)
41	GTP	T2	501	40	26,34,34	1.29	2 (7%)	32,54,54	1.73	7 (21%)
41	GTP	F0	501	40	26,34,34	1.23	2 (7%)	32,54,54	1.62	7 (21%)
41	GTP	B0	501	40	26,34,34	1.25	2 (7%)	32,54,54	1.81	7 (21%)
39	GDP	2	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.36	3 (10%)
41	GTP	J8	501	40	26,34,34	1.22	2 (7%)	32,54,54	1.79	7 (21%)
41	GTP	K9	501	40	26,34,34	1.29	2 (7%)	32,54,54	1.69	7 (21%)
41	GTP	1D	501	40	26,34,34	1.22	2 (7%)	32,54,54	1.62	7 (21%)
39	GDP	M8	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.35	4 (13%)
41	GTP	R2	501	40	26,34,34	1.30	2 (7%)	32,54,54	1.73	7 (21%)
39	GDP	L2	502	-	24,30,30	0.97	1 (4%)	30,47,47	1.33	4 (13%)
41	GTP	E1	501	40	26,34,34	1.28	2 (7%)	32,54,54	1.69	6 (18%)
39	GDP	R6	503	-	24,30,30	1.00	1 (4%)	30,47,47	1.27	4 (13%)
39	GDP	E4	502	-	24,30,30	1.02	1 (4%)	30,47,47	1.31	3 (10%)
39	GDP	R8	502	-	24,30,30	0.98	1 (4%)	30,47,47	1.36	5 (16%)
41	GTP	3C	501	40	26,34,34	1.27	3 (11%)	32,54,54	1.77	7 (21%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
39	GDP	Q4	502	-	24,30,30	1.03	1 (4%)	30,47,47	1.35	3 (10%)
39	GDP	3	502	-	24,30,30	0.97	1 (4%)	30,47,47	1.55	4 (13%)
41	GTP	Y4	501	40	26,34,34	1.25	1 (3%)	32,54,54	1.69	7 (21%)
41	GTP	Q6	501	40	26,34,34	1.33	2 (7%)	32,54,54	1.72	6 (18%)
41	GTP	W8	501	40	26,34,34	1.24	1 (3%)	32,54,54	1.69	7 (21%)
41	GTP	X4	501	40	26,34,34	1.22	2 (7%)	32,54,54	1.54	6 (18%)
41	GTP	2U	501	40	26,34,34	1.25	2 (7%)	32,54,54	1.73	7 (21%)
39	GDP	Y4	502	-	24,30,30	0.95	1 (4%)	30,47,47	1.36	4 (13%)
39	GDP	Q6	502	-	24,30,30	1.00	1 (4%)	30,47,47	1.34	5 (16%)
39	GDP	Y0	502	-	24,30,30	0.93	1 (4%)	30,47,47	1.47	4 (13%)
39	GDP	E8	502	-	24,30,30	0.97	1 (4%)	30,47,47	1.35	4 (13%)
41	GTP	P4	501	40	26,34,34	1.31	2 (7%)	32,54,54	1.65	6 (18%)
41	GTP	1A	501	40	26,34,34	1.25	2 (7%)	32,54,54	1.66	7 (21%)
41	GTP	2S	501	40	26,34,34	1.31	2 (7%)	32,54,54	1.71	7 (21%)
39	GDP	H8	503	-	24,30,30	0.99	1 (4%)	30,47,47	1.34	4 (13%)
41	GTP	O0	501	40	26,34,34	1.26	1 (3%)	32,54,54	1.66	7 (21%)
39	GDP	1C	502	-	24,30,30	0.99	1 (4%)	30,47,47	1.37	4 (13%)
41	GTP	3G	501	40	26,34,34	1.27	2 (7%)	32,54,54	1.66	7 (21%)
41	GTP	C9	501	40	26,34,34	1.27	2 (7%)	32,54,54	1.69	6 (18%)
41	GTP	M4	501	40	26,34,34	1.24	1 (3%)	32,54,54	1.69	7 (21%)
41	GTP	0S	501	40	26,34,34	1.20	2 (7%)	32,54,54	1.61	7 (21%)
39	GDP	J6	502	-	24,30,30	0.98	1 (4%)	30,47,47	1.34	5 (16%)
39	GDP	V2	503	-	24,30,30	0.98	1 (4%)	30,47,47	1.36	5 (16%)
41	GTP	U6	501	40	26,34,34	1.21	2 (7%)	32,54,54	1.68	7 (21%)
41	GTP	0C	501	40	26,34,34	1.20	1 (3%)	32,54,54	1.59	7 (21%)
41	GTP	3O	501	40	26,34,34	1.30	3 (11%)	32,54,54	1.72	6 (18%)
41	GTP	G0	501	40	26,34,34	1.23	1 (3%)	32,54,54	1.62	7 (21%)
39	GDP	N0	502	-	24,30,30	0.98	1 (4%)	30,47,47	1.40	4 (13%)
41	GTP	0Y	501	40	26,34,34	1.19	2 (7%)	32,54,54	1.65	7 (21%)
39	GDP	1M	501	-	24,30,30	0.98	1 (4%)	30,47,47	1.38	5 (16%)
39	GDP	F8	502	-	24,30,30	0.98	1 (4%)	30,47,47	1.33	4 (13%)
41	GTP	B7	501	40	26,34,34	1.23	1 (3%)	32,54,54	1.74	7 (21%)
41	GTP	F5	501	40	26,34,34	1.22	1 (3%)	32,54,54	1.67	7 (21%)
41	GTP	G4	501	40	26,34,34	1.28	1 (3%)	32,54,54	1.68	6 (18%)
41	GTP	M6	501	40	26,34,34	1.27	2 (7%)	32,54,54	1.71	7 (21%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
41	GTP	M7	501	40	26,34,34	1.25	1 (3%)	32,54,54	1.67	7 (21%)
39	GDP	C8	502	-	24,30,30	0.98	1 (4%)	30,47,47	1.35	4 (13%)
41	GTP	P9	501	40	26,34,34	1.35	2 (7%)	32,54,54	1.71	6 (18%)
39	GDP	V4	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.39	5 (16%)
41	GTP	S0	501	40	26,34,34	1.30	1 (3%)	32,54,54	1.76	6 (18%)
39	GDP	U8	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.44	4 (13%)
41	GTP	P8	501	40	26,34,34	1.31	1 (3%)	32,54,54	1.70	6 (18%)
41	GTP	D5	501	40	26,34,34	1.28	2 (7%)	32,54,54	1.68	7 (21%)
39	GDP	0I	502	-	24,30,30	0.95	1 (4%)	30,47,47	1.32	4 (13%)
39	GDP	2C	502	-	24,30,30	0.99	1 (4%)	30,47,47	1.38	4 (13%)
39	GDP	W4	502	-	24,30,30	0.98	1 (4%)	30,47,47	1.33	5 (16%)
41	GTP	1W	501	40	26,34,34	1.25	2 (7%)	32,54,54	1.65	7 (21%)
41	GTP	3I	501	40	26,34,34	1.26	2 (7%)	32,54,54	1.73	7 (21%)
41	GTP	Z6	501	40	26,34,34	1.25	1 (3%)	32,54,54	1.54	6 (18%)
39	GDP	0G	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.24	4 (13%)
41	GTP	T8	501	40	26,34,34	1.27	1 (3%)	32,54,54	1.64	6 (18%)
41	GTP	U2	501	40	26,34,34	1.24	2 (7%)	32,54,54	1.68	7 (21%)
39	GDP	3I	502	-	24,30,30	1.00	1 (4%)	30,47,47	1.40	5 (16%)
41	GTP	U9	501	40	26,34,34	1.23	2 (7%)	32,54,54	1.67	7 (21%)
41	GTP	Z7	501	40	26,34,34	1.24	1 (3%)	32,54,54	1.64	7 (21%)
41	GTP	E6	501	40	26,34,34	1.26	1 (3%)	32,54,54	1.68	6 (18%)
41	GTP	Z0	501	40	26,34,34	1.21	2 (7%)	32,54,54	1.56	7 (21%)
39	GDP	0Q	502	-	24,30,30	0.96	1 (4%)	30,47,47	1.32	4 (13%)
39	GDP	U2	502	-	24,30,30	0.99	1 (4%)	30,47,47	1.37	4 (13%)
39	GDP	0E	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.31	4 (13%)
39	GDP	I8	502	-	24,30,30	0.96	1 (4%)	30,47,47	1.37	4 (13%)
39	GDP	F6	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.30	5 (16%)
39	GDP	V6	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.38	4 (13%)
41	GTP	0A	501	40	26,34,34	1.24	2 (7%)	32,54,54	1.59	6 (18%)
39	GDP	H2	503	-	24,30,30	0.97	1 (4%)	30,47,47	1.42	4 (13%)
41	GTP	E8	501	40	26,34,34	1.24	1 (3%)	32,54,54	1.60	5 (15%)
39	GDP	Y8	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.31	4 (13%)
41	GTP	0Q	501	40	26,34,34	1.22	1 (3%)	32,54,54	1.63	7 (21%)
39	GDP	I4	502	-	24,30,30	0.96	1 (4%)	30,47,47	1.37	4 (13%)
41	GTP	A2	501	40	26,34,34	1.24	1 (3%)	32,54,54	1.73	7 (21%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
39	GDP	3K	503	-	24,30,30	0.98	1 (4%)	30,47,47	1.43	4 (13%)
39	GDP	O8	503	-	24,30,30	0.98	1 (4%)	30,47,47	1.36	4 (13%)
41	GTP	1G	501	40	26,34,34	1.20	2 (7%)	32,54,54	1.62	7 (21%)
41	GTP	3	501	40	26,34,34	1.29	1 (3%)	32,54,54	1.71	7 (21%)
39	GDP	S8	502	-	24,30,30	0.96	1 (4%)	30,47,47	1.36	4 (13%)
39	GDP	OY	502	-	24,30,30	0.96	1 (4%)	30,47,47	1.43	4 (13%)
41	GTP	N6	501	40	26,34,34	1.26	1 (3%)	32,54,54	1.68	7 (21%)
39	GDP	I0	502	-	24,30,30	0.98	1 (4%)	30,47,47	1.40	4 (13%)
41	GTP	N1	501	40	26,34,34	1.27	2 (7%)	32,54,54	1.71	7 (21%)
41	GTP	I8	501	40	26,34,34	1.23	2 (7%)	32,54,54	1.74	7 (21%)
41	GTP	C8	501	40	26,34,34	1.26	2 (7%)	32,54,54	1.62	7 (21%)
39	GDP	0S	502	-	24,30,30	0.98	1 (4%)	30,47,47	1.29	5 (16%)
39	GDP	2I	502	-	24,30,30	0.98	1 (4%)	30,47,47	1.29	3 (10%)
41	GTP	D3	501	40	26,34,34	1.25	1 (3%)	32,54,54	1.66	7 (21%)
41	GTP	V3	501	40	26,34,34	1.25	2 (7%)	32,54,54	1.72	7 (21%)
41	GTP	U4	501	40	26,34,34	1.23	2 (7%)	32,54,54	1.74	7 (21%)
39	GDP	G6	501	-	24,30,30	0.98	1 (4%)	30,47,47	1.28	4 (13%)
39	GDP	2Y	502	-	24,30,30	0.98	1 (4%)	30,47,47	1.39	4 (13%)
41	GTP	4	501	40	26,34,34	1.30	2 (7%)	32,54,54	1.71	7 (21%)
39	GDP	Y6	502	-	24,30,30	0.97	1 (4%)	30,47,47	1.41	4 (13%)
39	GDP	X4	502	-	24,30,30	0.98	1 (4%)	30,47,47	1.33	5 (16%)
41	GTP	2N	501	40	26,34,34	1.18	2 (7%)	32,54,54	1.66	7 (21%)
39	GDP	Z0	502	-	24,30,30	0.92	1 (4%)	30,47,47	1.25	3 (10%)
41	GTP	Y0	501	40	26,34,34	1.22	1 (3%)	32,54,54	1.70	6 (18%)
39	GDP	R0	502	-	24,30,30	0.97	1 (4%)	30,47,47	1.35	4 (13%)
39	GDP	A1	502	-	24,30,30	0.96	1 (4%)	30,47,47	1.38	4 (13%)
39	GDP	1U	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.39	4 (13%)
41	GTP	G7	501	40	26,34,34	1.25	1 (3%)	32,54,54	1.70	7 (21%)
41	GTP	D1	501	40	26,34,34	1.31	2 (7%)	32,54,54	1.69	6 (18%)
39	GDP	K8	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.36	4 (13%)
41	GTP	V8	501	40	26,34,34	1.19	2 (7%)	32,54,54	1.69	7 (21%)

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
39	GDP	D8	501	-	-	2/12/32/32	0/3/3/3
39	GDP	B1	501	-	-	2/12/32/32	0/3/3/3
41	GTP	C1	501	40	-	6/18/38/38	0/3/3/3
41	GTP	K4	501	40	-	7/18/38/38	0/3/3/3
39	GDP	Q2	502	-	-	3/12/32/32	0/3/3/3
41	GTP	W2	501	40	-	7/18/38/38	0/3/3/3
39	GDP	D2	501	-	-	4/12/32/32	0/3/3/3
39	GDP	A3	501	-	-	5/12/32/32	0/3/3/3
39	GDP	2U	502	-	-	5/12/32/32	0/3/3/3
39	GDP	1E	501	-	-	1/12/32/32	0/3/3/3
41	GTP	3T	501	40	-	7/18/38/38	0/3/3/3
39	GDP	S4	501	-	-	2/12/32/32	0/3/3/3
39	GDP	1Q	502	-	-	1/12/32/32	0/3/3/3
41	GTP	O8	501	40	-	8/18/38/38	0/3/3/3
39	GDP	P4	503	-	-	5/12/32/32	0/3/3/3
41	GTP	3M	501	40	-	6/18/38/38	0/3/3/3
41	GTP	0I	501	40	-	9/18/38/38	0/3/3/3
39	GDP	H4	501	-	-	4/12/32/32	0/3/3/3
41	GTP	H3	501	40	-	8/18/38/38	0/3/3/3
41	GTP	R0	501	40	-	8/18/38/38	0/3/3/3
39	GDP	Z4	501	-	-	2/12/32/32	0/3/3/3
41	GTP	K7	501	40	-	9/18/38/38	0/3/3/3
39	GDP	K4	502	-	-	2/12/32/32	0/3/3/3
41	GTP	Q2	501	40	-	5/18/38/38	0/3/3/3
39	GDP	L6	502	-	-	6/12/32/32	0/3/3/3
41	GTP	D7	501	40	-	3/18/38/38	0/3/3/3
41	GTP	I0	501	40	-	7/18/38/38	0/3/3/3
39	GDP	G2	501	-	-	3/12/32/32	0/3/3/3
41	GTP	F3	501	40	-	5/18/38/38	0/3/3/3
39	GDP	O4	502	-	-	6/12/32/32	0/3/3/3
41	GTP	O4	501	40	-	7/18/38/38	0/3/3/3
41	GTP	1Q	501	40	-	6/18/38/38	0/3/3/3
39	GDP	E2	501	-	-	6/12/32/32	0/3/3/3
41	GTP	8	501	40	-	5/18/38/38	0/3/3/3
39	GDP	B5	502	-	-	4/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
39	GDP	C4	501	-	-	2/12/32/32	0/3/3/3
39	GDP	O6	502	-	-	5/12/32/32	0/3/3/3
41	GTP	W4	501	40	-	7/18/38/38	0/3/3/3
41	GTP	E4	501	40	-	6/18/38/38	0/3/3/3
39	GDP	V8	502	-	-	3/12/32/32	0/3/3/3
39	GDP	Z6	502	-	-	1/12/32/32	0/3/3/3
41	GTP	N8	501	40	-	7/18/38/38	0/3/3/3
41	GTP	1S	501	40	-	4/18/38/38	0/3/3/3
39	GDP	P6	503	-	-	4/12/32/32	0/3/3/3
41	GTP	0M	501	40	-	7/18/38/38	0/3/3/3
41	GTP	X7	501	40	-	9/18/38/38	0/3/3/3
39	GDP	Z8	501	-	-	1/12/32/32	0/3/3/3
39	GDP	A5	501	-	-	1/12/32/32	0/3/3/3
41	GTP	X0	501	40	-	6/18/38/38	0/3/3/3
39	GDP	0U	501	-	-	6/12/32/32	0/3/3/3
39	GDP	2Q	502	-	-	2/12/32/32	0/3/3/3
39	GDP	A9	502	-	-	3/12/32/32	0/3/3/3
41	GTP	N0	501	40	-	9/18/38/38	0/3/3/3
41	GTP	0F	501	40	-	9/18/38/38	0/3/3/3
39	GDP	S2	502	-	-	5/12/32/32	0/3/3/3
41	GTP	H2	501	40	-	7/18/38/38	0/3/3/3
41	GTP	T4	501	40	-	5/18/38/38	0/3/3/3
41	GTP	3K	501	40	-	4/18/38/38	0/3/3/3
39	GDP	B8	501	-	-	6/12/32/32	0/3/3/3
41	GTP	0V	501	40	-	9/18/38/38	0/3/3/3
39	GDP	0A	503	-	-	2/12/32/32	0/3/3/3
39	GDP	1A	503	-	-	3/12/32/32	0/3/3/3
41	GTP	P6	501	40	-	8/18/38/38	0/3/3/3
41	GTP	J6	501	40	-	7/18/38/38	0/3/3/3
41	GTP	2E	501	40	-	9/18/38/38	0/3/3/3
39	GDP	A7	501	-	-	5/12/32/32	0/3/3/3
39	GDP	3O	502	-	-	5/12/32/32	0/3/3/3
39	GDP	Z2	503	-	-	1/12/32/32	0/3/3/3
39	GDP	3M	502	-	-	7/12/32/32	0/3/3/3
39	GDP	X6	502	-	-	4/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
41	GTP	B2	501	40	-	6/18/38/38	0/3/3/3
41	GTP	C5	501	40	-	7/18/38/38	0/3/3/3
41	GTP	1T	501	40	-	7/18/38/38	0/3/3/3
41	GTP	2A	501	40	-	6/18/38/38	0/3/3/3
39	GDP	2S	502	-	-	5/12/32/32	0/3/3/3
39	GDP	1O	501	-	-	1/12/32/32	0/3/3/3
41	GTP	K0	501	40	-	8/18/38/38	0/3/3/3
41	GTP	3S	501	40	-	6/18/38/38	0/3/3/3
39	GDP	R4	502	-	-	7/12/32/32	0/3/3/3
39	GDP	V0	501	-	-	2/12/32/32	0/3/3/3
41	GTP	A1	501	40	-	9/18/38/38	0/3/3/3
41	GTP	I5	501	40	-	9/18/38/38	0/3/3/3
39	GDP	F0	502	-	-	3/12/32/32	0/3/3/3
39	GDP	J0	502	-	-	2/12/32/32	0/3/3/3
41	GTP	M0	501	40	-	7/18/38/38	0/3/3/3
39	GDP	B3	501	-	-	4/12/32/32	0/3/3/3
41	GTP	X6	501	40	-	7/18/38/38	0/3/3/3
41	GTP	N3	501	40	-	9/18/38/38	0/3/3/3
41	GTP	J4	501	40	-	5/18/38/38	0/3/3/3
39	GDP	J8	502	-	-	2/12/32/32	0/3/3/3
39	GDP	W2	503	-	-	1/12/32/32	0/3/3/3
41	GTP	L2	501	40	-	6/18/38/38	0/3/3/3
39	GDP	U4	502	-	-	6/12/32/32	0/3/3/3
39	GDP	F2	501	-	-	3/12/32/32	0/3/3/3
41	GTP	I1	501	40	-	9/18/38/38	0/3/3/3
41	GTP	2L	501	40	-	8/18/38/38	0/3/3/3
39	GDP	1W	502	-	-	1/12/32/32	0/3/3/3
39	GDP	N8	502	-	-	7/12/32/32	0/3/3/3
41	GTP	Y1	501	40	-	7/18/38/38	0/3/3/3
41	GTP	B5	501	40	-	7/18/38/38	0/3/3/3
39	GDP	M0	502	-	-	3/12/32/32	0/3/3/3
39	GDP	I2	501	-	-	1/12/32/32	0/3/3/3
41	GTP	M2	501	40	-	8/18/38/38	0/3/3/3
39	GDP	Q8	501	-	-	3/12/32/32	0/3/3/3
41	GTP	1L	501	40	-	6/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
39	GDP	T0	501	-	-	4/12/32/32	0/3/3/3
39	GDP	J2	502	-	-	7/12/32/32	0/3/3/3
41	GTP	3A	501	40	-	6/18/38/38	0/3/3/3
41	GTP	J0	501	40	-	7/18/38/38	0/3/3/3
39	GDP	T4	502	-	-	4/12/32/32	0/3/3/3
39	GDP	P8	502	-	-	3/12/32/32	0/3/3/3
41	GTP	3D	501	40	-	7/18/38/38	0/3/3/3
39	GDP	S6	501	-	-	7/12/32/32	0/3/3/3
41	GTP	0K	501	40	-	7/18/38/38	0/3/3/3
41	GTP	1H	501	40	-	9/18/38/38	0/3/3/3
39	GDP	W8	503	-	-	2/12/32/32	0/3/3/3
41	GTP	2Q	501	40	-	8/18/38/38	0/3/3/3
39	GDP	D0	501	-	-	8/12/32/32	0/3/3/3
39	GDP	X8	501	-	-	3/12/32/32	0/3/3/3
41	GTP	S2	501	40	-	6/18/38/38	0/3/3/3
41	GTP	T6	501	40	-	5/18/38/38	0/3/3/3
41	GTP	U7	501	40	-	8/18/38/38	0/3/3/3
41	GTP	G9	501	40	-	8/18/38/38	0/3/3/3
41	GTP	Y6	501	40	-	8/18/38/38	0/3/3/3
39	GDP	D4	501	-	-	6/12/32/32	0/3/3/3
41	GTP	F1	501	40	-	7/18/38/38	0/3/3/3
41	GTP	A9	501	40	-	9/18/38/38	0/3/3/3
41	GTP	L6	501	40	-	6/18/38/38	0/3/3/3
41	GTP	K1	501	40	-	7/18/38/38	0/3/3/3
41	GTP	2W	501	40	-	8/18/38/38	0/3/3/3
41	GTP	1N	501	40	-	8/18/38/38	0/3/3/3
39	GDP	5	501	-	-	2/12/32/32	0/3/3/3
41	GTP	A4	501	40	-	6/18/38/38	0/3/3/3
39	GDP	U6	502	-	-	2/12/32/32	0/3/3/3
39	GDP	0M	502	-	-	3/12/32/32	0/3/3/3
39	GDP	2K	502	-	-	2/12/32/32	0/3/3/3
39	GDP	2W	502	-	-	5/12/32/32	0/3/3/3
41	GTP	I4	501	40	-	7/18/38/38	0/3/3/3
39	GDP	R2	502	-	-	1/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
41	GTP	S9	501	40	-	3/18/38/38	0/3/3/3
39	GDP	1G	502	-	-	0/12/32/32	0/3/3/3
39	GDP	0W	502	-	-	2/12/32/32	0/3/3/3
39	GDP	2G	502	-	-	4/12/32/32	0/3/3/3
41	GTP	G5	501	40	-	7/18/38/38	0/3/3/3
39	GDP	G8	501	-	-	1/12/32/32	0/3/3/3
41	GTP	2K	501	40	-	7/18/38/38	0/3/3/3
41	GTP	Z2	501	40	-	9/18/38/38	0/3/3/3
41	GTP	K6	501	40	-	6/18/38/38	0/3/3/3
41	GTP	C0	501	40	-	8/18/38/38	0/3/3/3
39	GDP	G4	502	-	-	2/12/32/32	0/3/3/3
39	GDP	0O	502	-	-	1/12/32/32	0/3/3/3
39	GDP	M2	502	-	-	2/12/32/32	0/3/3/3
39	GDP	C2	501	-	-	2/12/32/32	0/3/3/3
41	GTP	R8	501	40	-	5/18/38/38	0/3/3/3
41	GTP	R6	501	40	-	5/18/38/38	0/3/3/3
41	GTP	F8	501	40	-	8/18/38/38	0/3/3/3
41	GTP	R4	501	40	-	8/18/38/38	0/3/3/3
39	GDP	T2	502	-	-	4/12/32/32	0/3/3/3
41	GTP	W5	501	40	-	6/18/38/38	0/3/3/3
39	GDP	O2	502	-	-	5/12/32/32	0/3/3/3
39	GDP	N6	503	-	-	6/12/32/32	0/3/3/3
39	GDP	T8	502	-	-	3/12/32/32	0/3/3/3
41	GTP	S5	501	40	-	4/18/38/38	0/3/3/3
39	GDP	K6	502	-	-	2/12/32/32	0/3/3/3
39	GDP	C0	502	-	-	3/12/32/32	0/3/3/3
39	GDP	2A	502	-	-	1/12/32/32	0/3/3/3
39	GDP	K0	502	-	-	4/12/32/32	0/3/3/3
39	GDP	W0	502	-	-	4/12/32/32	0/3/3/3
41	GTP	L7	501	40	-	8/18/38/38	0/3/3/3
39	GDP	X2	501	-	-	4/12/32/32	0/3/3/3
41	GTP	3P	501	40	-	9/18/38/38	0/3/3/3
39	GDP	D6	501	-	-	6/12/32/32	0/3/3/3
39	GDP	Y2	501	-	-	2/12/32/32	0/3/3/3
39	GDP	2E	502	-	-	1/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
41	GTP	H8	501	40	-	8/18/38/38	0/3/3/3
39	GDP	3A	502	-	-	4/12/32/32	0/3/3/3
41	GTP	2I	501	40	-	7/18/38/38	0/3/3/3
39	GDP	E0	501	-	-	3/12/32/32	0/3/3/3
41	GTP	V2	501	40	-	6/18/38/38	0/3/3/3
39	GDP	O0	503	-	-	4/12/32/32	0/3/3/3
41	GTP	2G	501	40	-	7/18/38/38	0/3/3/3
41	GTP	O2	501	40	-	9/18/38/38	0/3/3/3
41	GTP	S8	501	40	-	6/18/38/38	0/3/3/3
41	GTP	J2	501	40	-	8/18/38/38	0/3/3/3
39	GDP	3G	502	-	-	3/12/32/32	0/3/3/3
41	GTP	L4	501	40	-	7/18/38/38	0/3/3/3
41	GTP	W0	501	40	-	8/18/38/38	0/3/3/3
39	GDP	X0	502	-	-	1/12/32/32	0/3/3/3
39	GDP	0C	502	-	-	4/12/32/32	0/3/3/3
41	GTP	1X	501	40	-	6/18/38/38	0/3/3/3
39	GDP	1S	502	-	-	2/12/32/32	0/3/3/3
41	GTP	G1	501	40	-	8/18/38/38	0/3/3/3
39	GDP	M6	502	-	-	5/12/32/32	0/3/3/3
41	GTP	O9	501	40	-	6/18/38/38	0/3/3/3
39	GDP	2M	501	-	-	1/12/32/32	0/3/3/3
41	GTP	Q4	501	40	-	8/18/38/38	0/3/3/3
39	GDP	C6	501	-	-	4/12/32/32	0/3/3/3
39	GDP	3C	502	-	-	3/12/32/32	0/3/3/3
39	GDP	9	501	-	-	0/12/32/32	0/3/3/3
39	GDP	M4	502	-	-	4/12/32/32	0/3/3/3
41	GTP	2Y	501	40	-	8/18/38/38	0/3/3/3
39	GDP	S0	502	-	-	4/12/32/32	0/3/3/3
41	GTP	Z3	501	40	-	7/18/38/38	0/3/3/3
41	GTP	2C	501	40	-	8/18/38/38	0/3/3/3
39	GDP	3S	502	-	-	4/12/32/32	0/3/3/3
39	GDP	J4	503	-	-	4/12/32/32	0/3/3/3
39	GDP	0K	502	-	-	2/12/32/32	0/3/3/3
39	GDP	G0	502	-	-	1/12/32/32	0/3/3/3
39	GDP	L0	501	-	-	2/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
41	GTP	H6	501	40	-	9/18/38/38	0/3/3/3
39	GDP	Q0	501	-	-	5/12/32/32	0/3/3/3
39	GDP	H6	502	-	-	1/12/32/32	0/3/3/3
39	GDP	L4	502	-	-	2/12/32/32	0/3/3/3
39	GDP	T6	502	-	-	7/12/32/32	0/3/3/3
39	GDP	E6	502	-	-	6/12/32/32	0/3/3/3
41	GTP	O6	501	40	-	7/18/38/38	0/3/3/3
41	GTP	0O	501	40	-	9/18/38/38	0/3/3/3
41	GTP	7	501	40	-	7/18/38/38	0/3/3/3
39	GDP	W6	501	-	-	0/12/32/32	0/3/3/3
41	GTP	1C	501	40	-	8/18/38/38	0/3/3/3
39	GDP	N2	501	-	-	3/12/32/32	0/3/3/3
39	GDP	1K	501	-	-	4/12/32/32	0/3/3/3
39	GDP	3Q	501	-	-	3/12/32/32	0/3/3/3
39	GDP	7	502	-	-	2/12/32/32	0/3/3/3
41	GTP	T2	501	40	-	6/18/38/38	0/3/3/3
41	GTP	F0	501	40	-	5/18/38/38	0/3/3/3
41	GTP	B0	501	40	-	8/18/38/38	0/3/3/3
39	GDP	2	501	-	-	6/12/32/32	0/3/3/3
41	GTP	J8	501	40	-	6/18/38/38	0/3/3/3
41	GTP	K9	501	40	-	6/18/38/38	0/3/3/3
41	GTP	1D	501	40	-	7/18/38/38	0/3/3/3
39	GDP	M8	501	-	-	4/12/32/32	0/3/3/3
41	GTP	R2	501	40	-	6/18/38/38	0/3/3/3
39	GDP	L2	502	-	-	3/12/32/32	0/3/3/3
41	GTP	E1	501	40	-	5/18/38/38	0/3/3/3
39	GDP	R6	503	-	-	3/12/32/32	0/3/3/3
39	GDP	E4	502	-	-	5/12/32/32	0/3/3/3
39	GDP	R8	502	-	-	4/12/32/32	0/3/3/3
41	GTP	3C	501	40	-	6/18/38/38	0/3/3/3
39	GDP	Q4	502	-	-	6/12/32/32	0/3/3/3
39	GDP	3	502	-	-	3/12/32/32	0/3/3/3
41	GTP	Y4	501	40	-	9/18/38/38	0/3/3/3
41	GTP	Q6	501	40	-	6/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
41	GTP	W8	501	40	-	7/18/38/38	0/3/3/3
41	GTP	X4	501	40	-	8/18/38/38	0/3/3/3
41	GTP	2U	501	40	-	8/18/38/38	0/3/3/3
39	GDP	Y4	502	-	-	6/12/32/32	0/3/3/3
39	GDP	Q6	502	-	-	6/12/32/32	0/3/3/3
39	GDP	Y0	502	-	-	5/12/32/32	0/3/3/3
39	GDP	E8	502	-	-	4/12/32/32	0/3/3/3
41	GTP	P4	501	40	-	8/18/38/38	0/3/3/3
41	GTP	1A	501	40	-	8/18/38/38	0/3/3/3
41	GTP	2S	501	40	-	7/18/38/38	0/3/3/3
39	GDP	H8	503	-	-	3/12/32/32	0/3/3/3
41	GTP	O0	501	40	-	8/18/38/38	0/3/3/3
39	GDP	1C	502	-	-	2/12/32/32	0/3/3/3
41	GTP	3G	501	40	-	8/18/38/38	0/3/3/3
41	GTP	C9	501	40	-	5/18/38/38	0/3/3/3
41	GTP	M4	501	40	-	7/18/38/38	0/3/3/3
41	GTP	0S	501	40	-	8/18/38/38	0/3/3/3
39	GDP	J6	502	-	-	1/12/32/32	0/3/3/3
39	GDP	V2	503	-	-	3/12/32/32	0/3/3/3
41	GTP	U6	501	40	-	8/18/38/38	0/3/3/3
41	GTP	0C	501	40	-	8/18/38/38	0/3/3/3
41	GTP	3O	501	40	-	6/18/38/38	0/3/3/3
41	GTP	G0	501	40	-	8/18/38/38	0/3/3/3
39	GDP	N0	502	-	-	1/12/32/32	0/3/3/3
41	GTP	0Y	501	40	-	9/18/38/38	0/3/3/3
39	GDP	1M	501	-	-	1/12/32/32	0/3/3/3
39	GDP	F8	502	-	-	2/12/32/32	0/3/3/3
41	GTP	B7	501	40	-	7/18/38/38	0/3/3/3
41	GTP	F5	501	40	-	7/18/38/38	0/3/3/3
41	GTP	G4	501	40	-	7/18/38/38	0/3/3/3
41	GTP	M6	501	40	-	8/18/38/38	0/3/3/3
41	GTP	M7	501	40	-	7/18/38/38	0/3/3/3
39	GDP	C8	502	-	-	3/12/32/32	0/3/3/3
41	GTP	P9	501	40	-	7/18/38/38	0/3/3/3
39	GDP	V4	501	-	-	4/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
41	GTP	S0	501	40	-	8/18/38/38	0/3/3/3
39	GDP	U8	501	-	-	3/12/32/32	0/3/3/3
41	GTP	P8	501	40	-	7/18/38/38	0/3/3/3
41	GTP	D5	501	40	-	4/18/38/38	0/3/3/3
39	GDP	0I	502	-	-	2/12/32/32	0/3/3/3
39	GDP	2C	502	-	-	2/12/32/32	0/3/3/3
39	GDP	W4	502	-	-	4/12/32/32	0/3/3/3
41	GTP	1W	501	40	-	7/18/38/38	0/3/3/3
41	GTP	3I	501	40	-	8/18/38/38	0/3/3/3
41	GTP	Z6	501	40	-	9/18/38/38	0/3/3/3
39	GDP	0G	501	-	-	1/12/32/32	0/3/3/3
41	GTP	T8	501	40	-	7/18/38/38	0/3/3/3
41	GTP	U2	501	40	-	7/18/38/38	0/3/3/3
39	GDP	3I	502	-	-	4/12/32/32	0/3/3/3
41	GTP	U9	501	40	-	8/18/38/38	0/3/3/3
41	GTP	Z7	501	40	-	7/18/38/38	0/3/3/3
41	GTP	E6	501	40	-	8/18/38/38	0/3/3/3
41	GTP	Z0	501	40	-	8/18/38/38	0/3/3/3
39	GDP	0Q	502	-	-	4/12/32/32	0/3/3/3
39	GDP	U2	502	-	-	4/12/32/32	0/3/3/3
39	GDP	0E	501	-	-	2/12/32/32	0/3/3/3
39	GDP	I8	502	-	-	2/12/32/32	0/3/3/3
39	GDP	F6	501	-	-	5/12/32/32	0/3/3/3
39	GDP	V6	501	-	-	4/12/32/32	0/3/3/3
41	GTP	0A	501	40	-	9/18/38/38	0/3/3/3
39	GDP	H2	503	-	-	0/12/32/32	0/3/3/3
41	GTP	E8	501	40	-	5/18/38/38	0/3/3/3
39	GDP	Y8	501	-	-	3/12/32/32	0/3/3/3
41	GTP	0Q	501	40	-	8/18/38/38	0/3/3/3
39	GDP	I4	502	-	-	1/12/32/32	0/3/3/3
41	GTP	A2	501	40	-	2/18/38/38	0/3/3/3
39	GDP	3K	503	-	-	4/12/32/32	0/3/3/3
39	GDP	O8	503	-	-	1/12/32/32	0/3/3/3
41	GTP	1G	501	40	-	9/18/38/38	0/3/3/3
41	GTP	3	501	40	-	5/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
39	GDP	S8	502	-	-	4/12/32/32	0/3/3/3
39	GDP	0Y	502	-	-	1/12/32/32	0/3/3/3
41	GTP	N6	501	40	-	6/18/38/38	0/3/3/3
39	GDP	I0	502	-	-	2/12/32/32	0/3/3/3
41	GTP	N1	501	40	-	7/18/38/38	0/3/3/3
41	GTP	I8	501	40	-	7/18/38/38	0/3/3/3
41	GTP	C8	501	40	-	3/18/38/38	0/3/3/3
39	GDP	0S	502	-	-	2/12/32/32	0/3/3/3
39	GDP	2I	502	-	-	5/12/32/32	0/3/3/3
41	GTP	D3	501	40	-	5/18/38/38	0/3/3/3
41	GTP	V3	501	40	-	7/18/38/38	0/3/3/3
41	GTP	U4	501	40	-	7/18/38/38	0/3/3/3
39	GDP	G6	501	-	-	5/12/32/32	0/3/3/3
39	GDP	2Y	502	-	-	7/12/32/32	0/3/3/3
41	GTP	4	501	40	-	6/18/38/38	0/3/3/3
39	GDP	Y6	502	-	-	6/12/32/32	0/3/3/3
39	GDP	X4	502	-	-	4/12/32/32	0/3/3/3
41	GTP	2N	501	40	-	8/18/38/38	0/3/3/3
39	GDP	Z0	502	-	-	3/12/32/32	0/3/3/3
41	GTP	Y0	501	40	-	8/18/38/38	0/3/3/3
39	GDP	R0	502	-	-	4/12/32/32	0/3/3/3
39	GDP	A1	502	-	-	6/12/32/32	0/3/3/3
39	GDP	1U	501	-	-	4/12/32/32	0/3/3/3
41	GTP	G7	501	40	-	7/18/38/38	0/3/3/3
41	GTP	D1	501	40	-	5/18/38/38	0/3/3/3
39	GDP	K8	501	-	-	5/12/32/32	0/3/3/3
41	GTP	V8	501	40	-	7/18/38/38	0/3/3/3

All (443) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
41	R0	501	GTP	C5-C6	-4.75	1.37	1.47
41	P4	501	GTP	C5-C6	-4.73	1.37	1.47
41	Z3	501	GTP	C5-C6	-4.72	1.37	1.47
41	P6	501	GTP	C5-C6	-4.71	1.37	1.47
41	2S	501	GTP	C5-C6	-4.69	1.37	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
41	Q4	501	GTP	C5-C6	-4.69	1.37	1.47
41	P9	501	GTP	C5-C6	-4.68	1.37	1.47
41	I0	501	GTP	C5-C6	-4.68	1.37	1.47
41	T6	501	GTP	C5-C6	-4.67	1.37	1.47
41	P8	501	GTP	C5-C6	-4.67	1.37	1.47
41	S2	501	GTP	C5-C6	-4.66	1.37	1.47
41	8	501	GTP	C5-C6	-4.66	1.38	1.47
41	I1	501	GTP	C5-C6	-4.65	1.38	1.47
41	Q6	501	GTP	C5-C6	-4.64	1.38	1.47
41	2W	501	GTP	C5-C6	-4.64	1.38	1.47
41	3A	501	GTP	C5-C6	-4.64	1.38	1.47
41	K9	501	GTP	C5-C6	-4.62	1.38	1.47
41	S0	501	GTP	C5-C6	-4.62	1.38	1.47
41	N1	501	GTP	C5-C6	-4.61	1.38	1.47
41	R8	501	GTP	C5-C6	-4.60	1.38	1.47
41	J4	501	GTP	C5-C6	-4.60	1.38	1.47
41	T2	501	GTP	C5-C6	-4.60	1.38	1.47
41	Q2	501	GTP	C5-C6	-4.59	1.38	1.47
41	H6	501	GTP	C5-C6	-4.58	1.38	1.47
41	N0	501	GTP	C5-C6	-4.58	1.38	1.47
41	4	501	GTP	C5-C6	-4.57	1.38	1.47
41	G4	501	GTP	C5-C6	-4.57	1.38	1.47
41	M6	501	GTP	C5-C6	-4.57	1.38	1.47
41	2Q	501	GTP	C5-C6	-4.57	1.38	1.47
41	S5	501	GTP	C5-C6	-4.56	1.38	1.47
41	7	501	GTP	C5-C6	-4.55	1.38	1.47
41	3O	501	GTP	C5-C6	-4.55	1.38	1.47
41	H8	501	GTP	C5-C6	-4.55	1.38	1.47
41	G5	501	GTP	C5-C6	-4.55	1.38	1.47
41	I4	501	GTP	C5-C6	-4.54	1.38	1.47
41	E1	501	GTP	C5-C6	-4.54	1.38	1.47
41	R2	501	GTP	C5-C6	-4.54	1.38	1.47
41	U7	501	GTP	C5-C6	-4.54	1.38	1.47
41	R4	501	GTP	C5-C6	-4.53	1.38	1.47
41	T4	501	GTP	C5-C6	-4.53	1.38	1.47
41	M7	501	GTP	C5-C6	-4.53	1.38	1.47
41	Z7	501	GTP	C5-C6	-4.53	1.38	1.47
41	H3	501	GTP	C5-C6	-4.53	1.38	1.47
41	L2	501	GTP	C5-C6	-4.53	1.38	1.47
41	S8	501	GTP	C5-C6	-4.53	1.38	1.47
41	Z6	501	GTP	C5-C6	-4.52	1.38	1.47
41	1Q	501	GTP	C5-C6	-4.52	1.38	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
41	1A	501	GTP	C5-C6	-4.52	1.38	1.47
41	J6	501	GTP	C5-C6	-4.52	1.38	1.47
41	0A	501	GTP	C5-C6	-4.52	1.38	1.47
41	A9	501	GTP	C5-C6	-4.51	1.38	1.47
41	3	501	GTP	C5-C6	-4.51	1.38	1.47
41	1W	501	GTP	C5-C6	-4.51	1.38	1.47
41	3C	501	GTP	C5-C6	-4.50	1.38	1.47
41	N8	501	GTP	C5-C6	-4.50	1.38	1.47
41	H2	501	GTP	C5-C6	-4.49	1.38	1.47
41	0M	501	GTP	C5-C6	-4.49	1.38	1.47
41	R6	501	GTP	C5-C6	-4.49	1.38	1.47
41	F8	501	GTP	C5-C6	-4.49	1.38	1.47
41	G1	501	GTP	C5-C6	-4.48	1.38	1.47
41	O2	501	GTP	C5-C6	-4.48	1.38	1.47
41	A2	501	GTP	C5-C6	-4.48	1.38	1.47
41	3G	501	GTP	C5-C6	-4.47	1.38	1.47
41	F1	501	GTP	C5-C6	-4.47	1.38	1.47
41	1N	501	GTP	C5-C6	-4.47	1.38	1.47
41	O0	501	GTP	C5-C6	-4.47	1.38	1.47
41	F5	501	GTP	C5-C6	-4.46	1.38	1.47
41	M4	501	GTP	C5-C6	-4.46	1.38	1.47
41	1S	501	GTP	C5-C6	-4.46	1.38	1.47
41	E6	501	GTP	C5-C6	-4.46	1.38	1.47
41	0K	501	GTP	C5-C6	-4.46	1.38	1.47
41	C5	501	GTP	C5-C6	-4.46	1.38	1.47
41	3P	501	GTP	C5-C6	-4.45	1.38	1.47
41	B2	501	GTP	C5-C6	-4.45	1.38	1.47
41	U2	501	GTP	C5-C6	-4.45	1.38	1.47
41	T8	501	GTP	C5-C6	-4.45	1.38	1.47
41	A1	501	GTP	C5-C6	-4.45	1.38	1.47
41	M2	501	GTP	C5-C6	-4.44	1.38	1.47
41	G7	501	GTP	C5-C6	-4.44	1.38	1.47
41	K6	501	GTP	C5-C6	-4.44	1.38	1.47
41	B5	501	GTP	C5-C6	-4.44	1.38	1.47
41	K0	501	GTP	C5-C6	-4.44	1.38	1.47
41	J0	501	GTP	C5-C6	-4.44	1.38	1.47
41	3M	501	GTP	C5-C6	-4.43	1.38	1.47
41	B0	501	GTP	C5-C6	-4.43	1.38	1.47
41	W8	501	GTP	C5-C6	-4.43	1.38	1.47
41	J2	501	GTP	C5-C6	-4.43	1.38	1.47
41	D5	501	GTP	C5-C6	-4.43	1.38	1.47
41	D1	501	GTP	C5-C6	-4.42	1.38	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
41	1L	501	GTP	C5-C6	-4.42	1.38	1.47
41	U9	501	GTP	C5-C6	-4.42	1.38	1.47
41	Z0	501	GTP	C5-C6	-4.42	1.38	1.47
41	2U	501	GTP	C5-C6	-4.42	1.38	1.47
41	3S	501	GTP	C5-C6	-4.41	1.38	1.47
41	N6	501	GTP	C5-C6	-4.41	1.38	1.47
41	2Y	501	GTP	C5-C6	-4.41	1.38	1.47
41	O8	501	GTP	C5-C6	-4.40	1.38	1.47
41	V3	501	GTP	C5-C6	-4.40	1.38	1.47
41	Y4	501	GTP	C5-C6	-4.40	1.38	1.47
41	A4	501	GTP	C5-C6	-4.40	1.38	1.47
41	1C	501	GTP	C5-C6	-4.40	1.38	1.47
41	E8	501	GTP	C5-C6	-4.39	1.38	1.47
41	1D	501	GTP	C5-C6	-4.39	1.38	1.47
41	L4	501	GTP	C5-C6	-4.39	1.38	1.47
41	F0	501	GTP	C5-C6	-4.39	1.38	1.47
41	I8	501	GTP	C5-C6	-4.38	1.38	1.47
41	3I	501	GTP	C5-C6	-4.38	1.38	1.47
41	0I	501	GTP	C5-C6	-4.38	1.38	1.47
41	3K	501	GTP	C5-C6	-4.38	1.38	1.47
41	O4	501	GTP	C5-C6	-4.38	1.38	1.47
41	G0	501	GTP	C5-C6	-4.37	1.38	1.47
41	M0	501	GTP	C5-C6	-4.37	1.38	1.47
41	O9	501	GTP	C5-C6	-4.37	1.38	1.47
41	Z2	501	GTP	C5-C6	-4.37	1.38	1.47
41	E4	501	GTP	C5-C6	-4.36	1.38	1.47
41	L7	501	GTP	C5-C6	-4.36	1.38	1.47
41	U4	501	GTP	C5-C6	-4.36	1.38	1.47
41	1T	501	GTP	C5-C6	-4.36	1.38	1.47
41	U6	501	GTP	C5-C6	-4.35	1.38	1.47
41	W5	501	GTP	C5-C6	-4.35	1.38	1.47
41	0Q	501	GTP	C5-C6	-4.35	1.38	1.47
41	L6	501	GTP	C5-C6	-4.35	1.38	1.47
41	D7	501	GTP	C5-C6	-4.35	1.38	1.47
41	K7	501	GTP	C5-C6	-4.35	1.38	1.47
41	2I	501	GTP	C5-C6	-4.35	1.38	1.47
41	I5	501	GTP	C5-C6	-4.34	1.38	1.47
41	2K	501	GTP	C5-C6	-4.34	1.38	1.47
41	B7	501	GTP	C5-C6	-4.34	1.38	1.47
41	0O	501	GTP	C5-C6	-4.34	1.38	1.47
41	K1	501	GTP	C5-C6	-4.33	1.38	1.47
41	2G	501	GTP	C5-C6	-4.33	1.38	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
41	C8	501	GTP	C5-C6	-4.33	1.38	1.47
41	K4	501	GTP	C5-C6	-4.33	1.38	1.47
41	G9	501	GTP	C5-C6	-4.32	1.38	1.47
41	V2	501	GTP	C5-C6	-4.31	1.38	1.47
41	0V	501	GTP	C5-C6	-4.31	1.38	1.47
41	D3	501	GTP	C5-C6	-4.30	1.38	1.47
41	C9	501	GTP	C5-C6	-4.30	1.38	1.47
41	C1	501	GTP	C5-C6	-4.30	1.38	1.47
41	0F	501	GTP	C5-C6	-4.28	1.38	1.47
41	C0	501	GTP	C5-C6	-4.28	1.38	1.47
41	2L	501	GTP	C5-C6	-4.28	1.38	1.47
41	J8	501	GTP	C5-C6	-4.28	1.38	1.47
41	1X	501	GTP	C5-C6	-4.27	1.38	1.47
41	1G	501	GTP	C5-C6	-4.27	1.38	1.47
41	0C	501	GTP	C5-C6	-4.27	1.38	1.47
41	0Y	501	GTP	C5-C6	-4.25	1.38	1.47
41	3T	501	GTP	C5-C6	-4.24	1.38	1.47
41	W2	501	GTP	C5-C6	-4.24	1.38	1.47
41	Y1	501	GTP	C5-C6	-4.24	1.38	1.47
41	2E	501	GTP	C5-C6	-4.24	1.38	1.47
41	Y0	501	GTP	C5-C6	-4.24	1.38	1.47
41	X4	501	GTP	C5-C6	-4.23	1.38	1.47
41	W4	501	GTP	C5-C6	-4.23	1.38	1.47
41	O6	501	GTP	C5-C6	-4.22	1.38	1.47
41	2C	501	GTP	C5-C6	-4.22	1.38	1.47
41	0S	501	GTP	C5-C6	-4.22	1.38	1.47
41	W0	501	GTP	C5-C6	-4.20	1.38	1.47
41	3D	501	GTP	C5-C6	-4.19	1.38	1.47
41	X6	501	GTP	C5-C6	-4.18	1.38	1.47
41	X0	501	GTP	C5-C6	-4.16	1.39	1.47
41	F3	501	GTP	C5-C6	-4.16	1.39	1.47
41	2N	501	GTP	C5-C6	-4.15	1.39	1.47
41	V8	501	GTP	C5-C6	-4.13	1.39	1.47
41	1H	501	GTP	C5-C6	-4.13	1.39	1.47
41	X7	501	GTP	C5-C6	-4.09	1.39	1.47
41	2A	501	GTP	C5-C6	-4.05	1.39	1.47
41	Y6	501	GTP	C5-C6	-4.00	1.39	1.47
41	N3	501	GTP	C5-C6	-3.97	1.39	1.47
39	O2	502	GDP	C6-N1	-3.12	1.33	1.37
39	2S	502	GDP	C6-N1	-3.06	1.33	1.37
39	T6	502	GDP	C6-N1	-3.06	1.33	1.37
39	P6	503	GDP	C6-N1	-3.04	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	2U	502	GDP	C6-N1	-3.01	1.33	1.37
39	Q2	502	GDP	C6-N1	-3.00	1.33	1.37
39	3C	502	GDP	C6-N1	-2.98	1.33	1.37
39	2G	502	GDP	C6-N1	-2.98	1.33	1.37
39	R4	502	GDP	C6-N1	-2.97	1.33	1.37
39	S6	501	GDP	C6-N1	-2.97	1.33	1.37
39	3I	502	GDP	C6-N1	-2.97	1.33	1.37
39	Q4	502	GDP	C6-N1	-2.96	1.33	1.37
39	9	501	GDP	C6-N1	-2.95	1.33	1.37
39	L4	502	GDP	C6-N1	-2.95	1.33	1.37
39	2W	502	GDP	C6-N1	-2.94	1.33	1.37
39	3A	502	GDP	C6-N1	-2.93	1.33	1.37
39	G2	501	GDP	C6-N1	-2.93	1.33	1.37
39	1C	502	GDP	C6-N1	-2.93	1.33	1.37
39	J8	502	GDP	C6-N1	-2.93	1.33	1.37
39	F2	501	GDP	C6-N1	-2.92	1.33	1.37
39	O8	503	GDP	C6-N1	-2.92	1.33	1.37
39	R6	503	GDP	C6-N1	-2.92	1.33	1.37
39	E4	502	GDP	C6-N1	-2.92	1.33	1.37
39	H8	503	GDP	C6-N1	-2.92	1.33	1.37
39	N8	502	GDP	C6-N1	-2.92	1.33	1.37
39	2C	502	GDP	C6-N1	-2.92	1.33	1.37
39	2Q	502	GDP	C6-N1	-2.92	1.33	1.37
39	Q6	502	GDP	C6-N1	-2.92	1.33	1.37
39	S2	502	GDP	C6-N1	-2.91	1.33	1.37
39	D2	501	GDP	C6-N1	-2.91	1.33	1.37
39	E6	502	GDP	C6-N1	-2.91	1.33	1.37
39	S0	502	GDP	C6-N1	-2.91	1.33	1.37
39	2E	502	GDP	C6-N1	-2.90	1.33	1.37
39	P8	502	GDP	C6-N1	-2.90	1.33	1.37
39	R8	502	GDP	C6-N1	-2.90	1.33	1.37
39	1A	503	GDP	C6-N1	-2.90	1.33	1.37
39	H2	503	GDP	C6-N1	-2.90	1.33	1.37
39	B3	501	GDP	C6-N1	-2.90	1.33	1.37
39	N0	502	GDP	C6-N1	-2.89	1.33	1.37
39	Q0	501	GDP	C6-N1	-2.89	1.33	1.37
39	5	501	GDP	C6-N1	-2.88	1.33	1.37
39	P4	503	GDP	C6-N1	-2.88	1.33	1.37
39	1S	502	GDP	C6-N1	-2.88	1.33	1.37
39	3G	502	GDP	C6-N1	-2.88	1.33	1.37
39	2Y	502	GDP	C6-N1	-2.88	1.33	1.37
39	J6	502	GDP	C6-N1	-2.88	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	N2	501	GDP	C6-N1	-2.88	1.33	1.37
39	R0	502	GDP	C6-N1	-2.88	1.33	1.37
39	3K	503	GDP	C6-N1	-2.88	1.33	1.37
39	J4	503	GDP	C6-N1	-2.87	1.33	1.37
39	2A	502	GDP	C6-N1	-2.87	1.33	1.37
39	7	502	GDP	C6-N1	-2.87	1.33	1.37
39	C6	501	GDP	C6-N1	-2.87	1.33	1.37
39	G0	502	GDP	C6-N1	-2.87	1.33	1.37
39	R2	502	GDP	C6-N1	-2.87	1.33	1.37
39	G8	501	GDP	C6-N1	-2.87	1.33	1.37
39	J2	502	GDP	C6-N1	-2.87	1.33	1.37
39	2K	502	GDP	C6-N1	-2.87	1.33	1.37
39	H4	501	GDP	C6-N1	-2.86	1.33	1.37
39	V6	501	GDP	C6-N1	-2.86	1.33	1.37
39	0M	502	GDP	C6-N1	-2.86	1.33	1.37
39	T4	502	GDP	C6-N1	-2.86	1.33	1.37
39	W2	503	GDP	C6-N1	-2.86	1.33	1.37
39	O0	503	GDP	C6-N1	-2.86	1.33	1.37
39	3Q	501	GDP	C6-N1	-2.86	1.33	1.37
39	F6	501	GDP	C6-N1	-2.86	1.33	1.37
39	U4	502	GDP	C6-N1	-2.86	1.33	1.37
39	C4	501	GDP	C6-N1	-2.86	1.33	1.37
39	B5	502	GDP	C6-N1	-2.85	1.33	1.37
39	O6	502	GDP	C6-N1	-2.85	1.33	1.37
39	D6	501	GDP	C6-N1	-2.85	1.33	1.37
39	T0	501	GDP	C6-N1	-2.85	1.33	1.37
39	J0	502	GDP	C6-N1	-2.85	1.33	1.37
39	U2	502	GDP	C6-N1	-2.85	1.33	1.37
39	K8	501	GDP	C6-N1	-2.85	1.33	1.37
39	3S	502	GDP	C6-N1	-2.85	1.33	1.37
39	O4	502	GDP	C6-N1	-2.84	1.33	1.37
39	1G	502	GDP	C6-N1	-2.84	1.33	1.37
39	F0	502	GDP	C6-N1	-2.84	1.33	1.37
39	L0	501	GDP	C6-N1	-2.84	1.33	1.37
39	3O	502	GDP	C6-N1	-2.83	1.33	1.37
39	3	502	GDP	C6-N1	-2.83	1.33	1.37
39	I8	502	GDP	C6-N1	-2.83	1.33	1.37
39	1M	501	GDP	C6-N1	-2.83	1.33	1.37
39	A1	502	GDP	C6-N1	-2.83	1.33	1.37
39	M0	502	GDP	C6-N1	-2.82	1.33	1.37
39	E0	501	GDP	C6-N1	-2.82	1.33	1.37
39	I4	502	GDP	C6-N1	-2.82	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	F8	502	GDP	C6-N1	-2.82	1.33	1.37
39	V4	501	GDP	C6-N1	-2.82	1.33	1.37
39	H6	502	GDP	C6-N1	-2.81	1.33	1.37
39	K6	502	GDP	C6-N1	-2.81	1.33	1.37
39	W4	502	GDP	C6-N1	-2.81	1.33	1.37
39	1E	501	GDP	C6-N1	-2.81	1.33	1.37
39	D4	501	GDP	C6-N1	-2.81	1.33	1.37
39	I0	502	GDP	C6-N1	-2.81	1.33	1.37
39	2I	502	GDP	C6-N1	-2.81	1.33	1.37
39	L6	502	GDP	C6-N1	-2.81	1.33	1.37
39	W0	502	GDP	C6-N1	-2.81	1.33	1.37
39	0O	502	GDP	C6-N1	-2.81	1.33	1.37
39	1O	501	GDP	C6-N1	-2.81	1.33	1.37
39	3M	502	GDP	C6-N1	-2.81	1.33	1.37
39	1K	501	GDP	C6-N1	-2.81	1.33	1.37
39	V8	502	GDP	C6-N1	-2.80	1.33	1.37
39	1W	502	GDP	C6-N1	-2.80	1.33	1.37
39	D0	501	GDP	C6-N1	-2.80	1.33	1.37
39	T8	502	GDP	C6-N1	-2.80	1.33	1.37
39	L2	502	GDP	C6-N1	-2.80	1.33	1.37
39	B8	501	GDP	C6-N1	-2.80	1.33	1.37
39	C8	502	GDP	C6-N1	-2.80	1.33	1.37
39	1U	501	GDP	C6-N1	-2.79	1.33	1.37
39	2	501	GDP	C6-N1	-2.79	1.33	1.37
39	Y2	501	GDP	C6-N1	-2.79	1.33	1.37
39	K0	502	GDP	C6-N1	-2.79	1.33	1.37
39	B1	501	GDP	C6-N1	-2.79	1.33	1.37
39	A5	501	GDP	C6-N1	-2.78	1.33	1.37
39	C0	502	GDP	C6-N1	-2.78	1.33	1.37
39	E8	502	GDP	C6-N1	-2.78	1.33	1.37
39	V2	503	GDP	C6-N1	-2.78	1.33	1.37
39	I2	501	GDP	C6-N1	-2.78	1.33	1.37
39	E2	501	GDP	C6-N1	-2.78	1.33	1.37
39	0W	502	GDP	C6-N1	-2.78	1.33	1.37
39	2M	501	GDP	C6-N1	-2.78	1.33	1.37
39	S8	502	GDP	C6-N1	-2.76	1.33	1.37
39	T2	502	GDP	C6-N1	-2.76	1.33	1.37
39	X2	501	GDP	C6-N1	-2.76	1.33	1.37
39	C2	501	GDP	C6-N1	-2.75	1.33	1.37
39	U6	502	GDP	C6-N1	-2.75	1.33	1.37
39	G6	501	GDP	C6-N1	-2.75	1.33	1.37
39	V0	501	GDP	C6-N1	-2.75	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	Y6	502	GDP	C6-N1	-2.75	1.33	1.37
39	0A	503	GDP	C6-N1	-2.75	1.33	1.37
39	U8	501	GDP	C6-N1	-2.75	1.33	1.37
39	A3	501	GDP	C6-N1	-2.75	1.33	1.37
39	N6	503	GDP	C6-N1	-2.74	1.33	1.37
39	W6	501	GDP	C6-N1	-2.74	1.33	1.37
39	K4	502	GDP	C6-N1	-2.74	1.33	1.37
39	A9	502	GDP	C6-N1	-2.73	1.33	1.37
39	1Q	502	GDP	C6-N1	-2.73	1.33	1.37
39	M6	502	GDP	C6-N1	-2.72	1.33	1.37
39	Q8	501	GDP	C6-N1	-2.72	1.33	1.37
39	W8	503	GDP	C6-N1	-2.72	1.33	1.37
39	G4	502	GDP	C6-N1	-2.71	1.33	1.37
39	0U	501	GDP	C6-N1	-2.71	1.33	1.37
39	Y4	502	GDP	C6-N1	-2.70	1.33	1.37
39	0Y	502	GDP	C6-N1	-2.70	1.33	1.37
39	Z6	502	GDP	C6-N1	-2.69	1.33	1.37
39	A7	501	GDP	C6-N1	-2.68	1.33	1.37
39	M8	501	GDP	C6-N1	-2.68	1.33	1.37
39	0Q	502	GDP	C6-N1	-2.68	1.33	1.37
39	S4	501	GDP	C6-N1	-2.67	1.33	1.37
39	0K	502	GDP	C6-N1	-2.67	1.33	1.37
39	X8	501	GDP	C6-N1	-2.67	1.33	1.37
41	S9	501	GTP	C5-C6	-2.66	1.42	1.47
39	0G	501	GDP	C6-N1	-2.65	1.33	1.37
39	D8	501	GDP	C6-N1	-2.65	1.33	1.37
39	X6	502	GDP	C6-N1	-2.65	1.33	1.37
39	X0	502	GDP	C6-N1	-2.65	1.33	1.37
39	M2	502	GDP	C6-N1	-2.64	1.33	1.37
39	Y0	502	GDP	C6-N1	-2.63	1.34	1.37
39	0S	502	GDP	C6-N1	-2.63	1.34	1.37
39	M4	502	GDP	C6-N1	-2.63	1.34	1.37
39	0I	502	GDP	C6-N1	-2.62	1.34	1.37
39	0C	502	GDP	C6-N1	-2.61	1.34	1.37
39	Z8	501	GDP	C6-N1	-2.60	1.34	1.37
39	X4	502	GDP	C6-N1	-2.60	1.34	1.37
39	Z4	501	GDP	C6-N1	-2.59	1.34	1.37
39	0E	501	GDP	C6-N1	-2.56	1.34	1.37
39	Z2	503	GDP	C6-N1	-2.54	1.34	1.37
39	Y8	501	GDP	C6-N1	-2.49	1.34	1.37
39	Z0	502	GDP	C6-N1	-2.43	1.34	1.37
41	2N	501	GTP	C2-N3	2.22	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
41	L7	501	GTP	C2-N3	2.21	1.38	1.33
41	1H	501	GTP	C2-N3	2.19	1.38	1.33
41	N3	501	GTP	C2-N3	2.19	1.38	1.33
41	1T	501	GTP	C2-N3	2.17	1.38	1.33
41	1X	501	GTP	C2-N3	2.16	1.38	1.33
41	D1	501	GTP	C5-C4	-2.15	1.37	1.43
41	C9	501	GTP	C5-C4	-2.15	1.37	1.43
41	2W	501	GTP	C5-C4	-2.14	1.37	1.43
41	U6	501	GTP	C2-N3	2.14	1.38	1.33
41	3T	501	GTP	C2-N3	2.13	1.38	1.33
41	W2	501	GTP	C2-N3	2.13	1.38	1.33
41	2S	501	GTP	C5-C4	-2.13	1.37	1.43
41	0Y	501	GTP	C2-N3	2.12	1.38	1.33
41	U4	501	GTP	C2-N3	2.12	1.38	1.33
41	W0	501	GTP	C2-N3	2.12	1.38	1.33
41	C8	501	GTP	C5-C4	-2.12	1.37	1.43
41	U7	501	GTP	C2-N3	2.11	1.38	1.33
41	1Q	501	GTP	C2-N3	2.11	1.38	1.33
41	2E	501	GTP	C2-N3	2.10	1.38	1.33
41	3D	501	GTP	C2-N3	2.10	1.38	1.33
41	Q6	501	GTP	C5-C4	-2.10	1.37	1.43
41	V3	501	GTP	C2-N3	2.10	1.38	1.33
41	0S	501	GTP	C2-N3	2.09	1.38	1.33
41	C0	501	GTP	C2-N3	2.09	1.38	1.33
41	T6	501	GTP	C5-C4	-2.09	1.37	1.43
41	3A	501	GTP	C5-C4	-2.09	1.37	1.43
41	3C	501	GTP	C2-N3	2.08	1.38	1.33
41	F3	501	GTP	C2-N3	2.08	1.38	1.33
41	J8	501	GTP	C2-N3	2.08	1.38	1.33
41	2G	501	GTP	C2-N3	2.07	1.38	1.33
41	2L	501	GTP	C2-N3	2.07	1.38	1.33
41	D5	501	GTP	C5-C4	-2.07	1.37	1.43
41	U2	501	GTP	C2-N3	2.07	1.38	1.33
41	2Q	501	GTP	C2-N3	2.07	1.38	1.33
41	U9	501	GTP	C2-N3	2.07	1.38	1.33
41	P9	501	GTP	C5-C4	-2.07	1.37	1.43
41	C1	501	GTP	C2-N3	2.07	1.38	1.33
41	T2	501	GTP	C5-C4	-2.06	1.37	1.43
41	P6	501	GTP	C5-C4	-2.06	1.37	1.43
41	L6	501	GTP	C5-C4	-2.06	1.37	1.43
41	O4	501	GTP	C5-C4	-2.05	1.37	1.43
41	3O	501	GTP	C5-C4	-2.05	1.37	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
41	P6	501	GTP	C2'-C1'	-2.05	1.50	1.53
41	P4	501	GTP	C5-C4	-2.05	1.37	1.43
41	S9	501	GTP	C8-N7	-2.05	1.31	1.35
41	0V	501	GTP	C2-N3	2.05	1.38	1.33
41	B0	501	GTP	C2-N3	2.05	1.38	1.33
41	3S	501	GTP	C5-C4	-2.05	1.37	1.43
41	Q2	501	GTP	C5-C4	-2.04	1.37	1.43
41	Z0	501	GTP	C2-N3	2.04	1.38	1.33
41	W4	501	GTP	C2-N3	2.04	1.38	1.33
41	C5	501	GTP	C5-C4	-2.04	1.37	1.43
41	L2	501	GTP	C5-C4	-2.04	1.37	1.43
41	K7	501	GTP	C2-N3	2.04	1.38	1.33
41	1D	501	GTP	C2-N3	2.04	1.38	1.33
41	1A	501	GTP	C2-N3	2.04	1.38	1.33
41	W5	501	GTP	C2-N3	2.04	1.38	1.33
41	I8	501	GTP	C2-N3	2.04	1.38	1.33
41	H2	501	GTP	C2-N3	2.03	1.38	1.33
41	T4	501	GTP	C5-C4	-2.03	1.37	1.43
41	3C	501	GTP	C5-C4	-2.03	1.37	1.43
41	7	501	GTP	C5-C4	-2.03	1.37	1.43
41	3O	501	GTP	C2-N3	2.03	1.38	1.33
41	3P	501	GTP	C5-C4	-2.03	1.37	1.43
41	I4	501	GTP	C2-N3	2.03	1.38	1.33
41	3G	501	GTP	C2-N3	2.03	1.38	1.33
41	N1	501	GTP	C5-C4	-2.03	1.37	1.43
41	1G	501	GTP	C2-N3	2.03	1.38	1.33
41	I5	501	GTP	C2-N3	2.03	1.38	1.33
41	K1	501	GTP	C2-N3	2.02	1.38	1.33
41	R4	501	GTP	C2-N3	2.02	1.38	1.33
41	S8	501	GTP	C5-C4	-2.02	1.37	1.43
41	V2	501	GTP	C2-N3	2.02	1.38	1.33
41	G9	501	GTP	C2-N3	2.02	1.38	1.33
41	2U	501	GTP	C5-C4	-2.02	1.37	1.43
41	3M	501	GTP	C2-N3	2.02	1.38	1.33
41	3I	501	GTP	C5-C4	-2.02	1.37	1.43
41	0O	501	GTP	C2-N3	2.02	1.38	1.33
41	2Y	501	GTP	C5-C4	-2.02	1.37	1.43
41	K9	501	GTP	C5-C4	-2.02	1.37	1.43
41	8	501	GTP	C5-C4	-2.02	1.37	1.43
41	0A	501	GTP	C2-N3	2.02	1.38	1.33
41	1S	501	GTP	C2-N3	2.01	1.38	1.33
41	1W	501	GTP	C2-N3	2.01	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
41	J6	501	GTP	C2-N3	2.01	1.38	1.33
41	R2	501	GTP	C2-N3	2.01	1.38	1.33
41	X0	501	GTP	C2-N3	2.01	1.38	1.33
41	1L	501	GTP	C2-N3	2.01	1.38	1.33
41	4	501	GTP	C5-C4	-2.01	1.38	1.43
41	E1	501	GTP	C2-N3	2.01	1.38	1.33
41	Q4	501	GTP	C5-C4	-2.01	1.38	1.43
41	O2	501	GTP	C5-C4	-2.01	1.38	1.43
41	R8	501	GTP	C5-C4	-2.01	1.38	1.43
41	R6	501	GTP	C5-C4	-2.01	1.38	1.43
41	Z2	501	GTP	C2-N3	2.01	1.38	1.33
41	M6	501	GTP	C5-C4	-2.01	1.38	1.43
41	F0	501	GTP	C2-N3	2.00	1.38	1.33
41	2A	501	GTP	C2-N3	2.00	1.38	1.33
41	V8	501	GTP	C2-N3	2.00	1.38	1.33
41	X4	501	GTP	C2-N3	2.00	1.38	1.33
41	O8	501	GTP	C5-C4	-2.00	1.38	1.43
41	2Q	501	GTP	C5-C4	-2.00	1.38	1.43

All (1847) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	B2	501	GTP	PA-O3A-PB	-5.35	114.47	132.83
39	3	502	GDP	PA-O3A-PB	-5.18	115.06	132.83
41	A2	501	GTP	PB-O3B-PG	-5.13	115.22	132.83
41	S0	501	GTP	PA-O3A-PB	-5.06	115.46	132.83
41	3A	501	GTP	PA-O3A-PB	-4.97	115.76	132.83
41	C1	501	GTP	PB-O3B-PG	-4.89	116.06	132.83
39	S2	502	GDP	PA-O3A-PB	-4.87	116.12	132.83
41	T4	501	GTP	PA-O3A-PB	-4.82	116.28	132.83
39	T2	502	GDP	PA-O3A-PB	-4.81	116.31	132.83
41	B0	501	GTP	PA-O3A-PB	-4.81	116.32	132.83
41	2L	501	GTP	PB-O3B-PG	-4.81	116.34	132.83
41	J4	501	GTP	PA-O3A-PB	-4.80	116.35	132.83
39	R4	502	GDP	PA-O3A-PB	-4.77	116.46	132.83
39	A5	501	GDP	PA-O3A-PB	-4.75	116.52	132.83
41	S5	501	GTP	PA-O3A-PB	-4.72	116.63	132.83
41	W8	501	GTP	PB-O3B-PG	-4.72	116.64	132.83
39	E6	502	GDP	PA-O3A-PB	-4.71	116.67	132.83
39	I2	501	GDP	PA-O3A-PB	-4.70	116.69	132.83
41	J8	501	GTP	PA-O3A-PB	-4.67	116.79	132.83
39	O4	502	GDP	PA-O3A-PB	-4.67	116.80	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	B5	501	GTP	PA-O3A-PB	-4.66	116.83	132.83
41	C0	501	GTP	PB-O3B-PG	-4.65	116.86	132.83
41	B7	501	GTP	PB-O3B-PG	-4.65	116.87	132.83
41	1Q	501	GTP	PA-O3A-PB	-4.65	116.88	132.83
41	3I	501	GTP	PA-O3A-PB	-4.64	116.89	132.83
41	C0	501	GTP	PA-O3A-PB	-4.64	116.92	132.83
41	B0	501	GTP	PB-O3B-PG	-4.63	116.92	132.83
41	B5	501	GTP	PB-O3B-PG	-4.63	116.92	132.83
39	C0	502	GDP	PA-O3A-PB	-4.63	116.94	132.83
41	A1	501	GTP	PA-O3A-PB	-4.61	117.00	132.83
39	Y0	502	GDP	PA-O3A-PB	-4.61	117.02	132.83
41	2K	501	GTP	PA-O3A-PB	-4.60	117.03	132.83
39	H2	503	GDP	PA-O3A-PB	-4.60	117.04	132.83
41	J6	501	GTP	PA-O3A-PB	-4.59	117.08	132.83
39	H6	502	GDP	PA-O3A-PB	-4.58	117.10	132.83
41	1L	501	GTP	PA-O3A-PB	-4.58	117.10	132.83
41	C1	501	GTP	PA-O3A-PB	-4.58	117.11	132.83
41	Q2	501	GTP	PA-O3A-PB	-4.58	117.11	132.83
39	U6	502	GDP	PA-O3A-PB	-4.57	117.14	132.83
41	T2	501	GTP	PA-O3A-PB	-4.57	117.16	132.83
41	R2	501	GTP	PA-O3A-PB	-4.56	117.17	132.83
41	M0	501	GTP	PB-O3B-PG	-4.56	117.18	132.83
41	W5	501	GTP	PA-O3A-PB	-4.56	117.19	132.83
39	D2	501	GDP	PA-O3A-PB	-4.56	117.19	132.83
41	P6	501	GTP	PA-O3A-PB	-4.55	117.21	132.83
41	U4	501	GTP	PA-O3A-PB	-4.54	117.24	132.83
39	D6	501	GDP	PA-O3A-PB	-4.54	117.24	132.83
41	B7	501	GTP	PA-O3A-PB	-4.54	117.24	132.83
41	A4	501	GTP	PB-O3B-PG	-4.53	117.27	132.83
41	R8	501	GTP	PA-O3A-PB	-4.53	117.28	132.83
41	2G	501	GTP	PA-O3A-PB	-4.53	117.28	132.83
41	I8	501	GTP	PB-O3B-PG	-4.53	117.28	132.83
41	V2	501	GTP	PA-O3A-PB	-4.53	117.29	132.83
41	G4	501	GTP	PA-O3A-PB	-4.53	117.29	132.83
39	W8	503	GDP	PA-O3A-PB	-4.52	117.30	132.83
41	P8	501	GTP	PA-O3A-PB	-4.52	117.32	132.83
41	7	501	GTP	PA-O3A-PB	-4.52	117.33	132.83
41	G1	501	GTP	PA-O3A-PB	-4.51	117.37	132.83
41	A9	501	GTP	PB-O3B-PG	-4.50	117.38	132.83
41	S8	501	GTP	PA-O3A-PB	-4.50	117.39	132.83
39	D4	501	GDP	PA-O3A-PB	-4.50	117.39	132.83
41	Q4	501	GTP	PA-O3A-PB	-4.50	117.39	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	Y2	501	GDP	PA-O3A-PB	-4.50	117.40	132.83
39	B8	501	GDP	PA-O3A-PB	-4.49	117.41	132.83
39	W0	502	GDP	PA-O3A-PB	-4.49	117.42	132.83
41	Q6	501	GTP	PA-O3A-PB	-4.49	117.42	132.83
41	Y4	501	GTP	PB-O3B-PG	-4.49	117.44	132.83
39	2	501	GDP	PA-O3A-PB	-4.48	117.44	132.83
41	1S	501	GTP	PA-O3A-PB	-4.48	117.46	132.83
41	K4	501	GTP	PB-O3B-PG	-4.48	117.46	132.83
41	K7	501	GTP	PB-O3B-PG	-4.48	117.46	132.83
41	J8	501	GTP	PB-O3B-PG	-4.47	117.48	132.83
41	B2	501	GTP	PB-O3B-PG	-4.47	117.49	132.83
39	U8	501	GDP	PA-O3A-PB	-4.47	117.49	132.83
41	4	501	GTP	PB-O3B-PG	-4.47	117.50	132.83
39	3M	502	GDP	PA-O3A-PB	-4.46	117.52	132.83
41	N8	501	GTP	PA-O3A-PB	-4.46	117.53	132.83
41	A4	501	GTP	PA-O3A-PB	-4.45	117.54	132.83
41	S5	501	GTP	PB-O3B-PG	-4.45	117.54	132.83
41	P9	501	GTP	PA-O3A-PB	-4.45	117.55	132.83
41	C5	501	GTP	PA-O3A-PB	-4.45	117.56	132.83
41	R6	501	GTP	PA-O3A-PB	-4.45	117.56	132.83
39	D0	501	GDP	PA-O3A-PB	-4.44	117.58	132.83
39	B1	501	GDP	PA-O3A-PB	-4.44	117.59	132.83
39	O6	502	GDP	PA-O3A-PB	-4.44	117.59	132.83
41	0K	501	GTP	PA-O3A-PB	-4.44	117.60	132.83
41	3O	501	GTP	PA-O3A-PB	-4.43	117.61	132.83
41	R4	501	GTP	PA-O3A-PB	-4.43	117.61	132.83
41	0M	501	GTP	PA-O3A-PB	-4.42	117.66	132.83
41	W5	501	GTP	PB-O3B-PG	-4.42	117.67	132.83
41	3S	501	GTP	PA-O3A-PB	-4.42	117.67	132.83
39	5	501	GDP	PA-O3A-PB	-4.41	117.68	132.83
39	L6	502	GDP	PA-O3A-PB	-4.41	117.69	132.83
41	W2	501	GTP	PB-O3B-PG	-4.40	117.72	132.83
41	U4	501	GTP	PB-O3B-PG	-4.40	117.73	132.83
41	8	501	GTP	PA-O3A-PB	-4.40	117.73	132.83
41	D1	501	GTP	PA-O3A-PB	-4.40	117.73	132.83
41	2K	501	GTP	PB-O3B-PG	-4.40	117.73	132.83
39	X8	501	GDP	PA-O3A-PB	-4.40	117.74	132.83
41	C5	501	GTP	PB-O3B-PG	-4.39	117.76	132.83
41	G7	501	GTP	PA-O3A-PB	-4.39	117.77	132.83
41	L6	501	GTP	PB-O3B-PG	-4.38	117.78	132.83
41	M0	501	GTP	PA-O3A-PB	-4.38	117.78	132.83
41	3C	501	GTP	PB-O3B-PG	-4.38	117.79	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	E6	501	GTP	PA-O3A-PB	-4.37	117.82	132.83
41	2U	501	GTP	PA-O3A-PB	-4.37	117.83	132.83
39	E0	501	GDP	PA-O3A-PB	-4.37	117.85	132.83
41	I5	501	GTP	PB-O3B-PG	-4.36	117.85	132.83
39	C6	501	GDP	PA-O3A-PB	-4.36	117.87	132.83
39	E8	502	GDP	PA-O3A-PB	-4.35	117.90	132.83
41	H2	501	GTP	PB-O3B-PG	-4.35	117.91	132.83
41	F5	501	GTP	PA-O3A-PB	-4.35	117.92	132.83
41	N6	501	GTP	PB-O3B-PG	-4.35	117.92	132.83
41	2C	501	GTP	PB-O3B-PG	-4.34	117.92	132.83
41	N6	501	GTP	PA-O3A-PB	-4.34	117.92	132.83
39	B5	502	GDP	PA-O3A-PB	-4.34	117.92	132.83
41	3S	501	GTP	PB-O3B-PG	-4.34	117.94	132.83
39	C8	502	GDP	PA-O3A-PB	-4.34	117.94	132.83
41	D7	501	GTP	PA-O3A-PB	-4.34	117.95	132.83
39	3O	502	GDP	PA-O3A-PB	-4.34	117.95	132.83
41	L4	501	GTP	PA-O3A-PB	-4.33	117.95	132.83
41	E6	501	GTP	PB-O3B-PG	-4.33	117.96	132.83
41	3C	501	GTP	PA-O3A-PB	-4.33	117.96	132.83
41	I8	501	GTP	PA-O3A-PB	-4.33	117.97	132.83
41	W4	501	GTP	PB-O3B-PG	-4.33	117.97	132.83
41	V2	501	GTP	PB-O3B-PG	-4.33	117.97	132.83
39	N6	503	GDP	PA-O3A-PB	-4.33	117.98	132.83
41	K6	501	GTP	PB-O3B-PG	-4.32	117.99	132.83
39	G0	502	GDP	PA-O3A-PB	-4.32	118.00	132.83
41	L2	501	GTP	PB-O3B-PG	-4.31	118.03	132.83
41	K9	501	GTP	PA-O3A-PB	-4.31	118.03	132.83
41	3D	501	GTP	PB-O3B-PG	-4.31	118.03	132.83
39	T6	502	GDP	PA-O3A-PB	-4.31	118.03	132.83
41	3	501	GTP	PA-O3A-PB	-4.31	118.03	132.83
41	O8	501	GTP	PA-O3A-PB	-4.31	118.04	132.83
41	K6	501	GTP	PA-O3A-PB	-4.31	118.04	132.83
41	S2	501	GTP	PA-O3A-PB	-4.31	118.05	132.83
41	M6	501	GTP	PB-O3B-PG	-4.30	118.06	132.83
41	2N	501	GTP	PB-O3B-PG	-4.30	118.08	132.83
41	O0	501	GTP	PA-O3A-PB	-4.30	118.08	132.83
41	T6	501	GTP	PA-O3A-PB	-4.30	118.08	132.83
41	M4	501	GTP	PB-O3B-PG	-4.30	118.08	132.83
39	B3	501	GDP	PA-O3A-PB	-4.29	118.10	132.83
41	3M	501	GTP	PA-O3A-PB	-4.29	118.10	132.83
41	N1	501	GTP	PA-O3A-PB	-4.29	118.10	132.83
41	Y0	501	GTP	PB-O3B-PG	-4.29	118.11	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	Q4	502	GDP	PA-O3A-PB	-4.29	118.11	132.83
41	3K	501	GTP	PB-O3B-PG	-4.29	118.12	132.83
39	J2	502	GDP	PA-O3A-PB	-4.28	118.13	132.83
41	Y1	501	GTP	PB-O3B-PG	-4.28	118.14	132.83
41	C9	501	GTP	PA-O3A-PB	-4.27	118.16	132.83
41	E1	501	GTP	PB-O3B-PG	-4.27	118.16	132.83
41	3A	501	GTP	PB-O3B-PG	-4.27	118.17	132.83
41	K9	501	GTP	PB-O3B-PG	-4.27	118.17	132.83
41	O4	501	GTP	PA-O3A-PB	-4.27	118.17	132.83
41	V3	501	GTP	PB-O3B-PG	-4.27	118.17	132.83
39	3Q	501	GDP	PA-O3A-PB	-4.27	118.18	132.83
39	3K	503	GDP	PA-O3A-PB	-4.27	118.19	132.83
41	G9	501	GTP	PB-O3B-PG	-4.26	118.20	132.83
41	2U	501	GTP	PB-O3B-PG	-4.26	118.20	132.83
39	0A	503	GDP	PA-O3A-PB	-4.26	118.21	132.83
41	2W	501	GTP	PA-O3A-PB	-4.26	118.21	132.83
39	N8	502	GDP	PA-O3A-PB	-4.26	118.22	132.83
41	J4	501	GTP	PB-O3B-PG	-4.25	118.23	132.83
41	8	501	GTP	PB-O3B-PG	-4.25	118.24	132.83
41	Y0	501	GTP	PA-O3A-PB	-4.25	118.24	132.83
41	J2	501	GTP	PA-O3A-PB	-4.24	118.26	132.83
41	O8	501	GTP	PB-O3B-PG	-4.24	118.26	132.83
41	K0	501	GTP	PA-O3A-PB	-4.24	118.27	132.83
41	2S	501	GTP	PB-O3B-PG	-4.24	118.27	132.83
41	U7	501	GTP	PB-O3B-PG	-4.23	118.29	132.83
41	J0	501	GTP	PB-O3B-PG	-4.23	118.32	132.83
39	Q2	502	GDP	PA-O3A-PB	-4.23	118.33	132.83
41	2C	501	GTP	PA-O3A-PB	-4.22	118.34	132.83
41	J0	501	GTP	PA-O3A-PB	-4.22	118.34	132.83
41	O9	501	GTP	PB-O3B-PG	-4.22	118.35	132.83
41	2E	501	GTP	PB-O3B-PG	-4.22	118.35	132.83
41	2A	501	GTP	PA-O3A-PB	-4.22	118.36	132.83
41	F1	501	GTP	PA-O3A-PB	-4.22	118.36	132.83
41	U2	501	GTP	PB-O3B-PG	-4.22	118.36	132.83
39	H4	501	GDP	PA-O3A-PB	-4.21	118.37	132.83
41	S0	501	GTP	PB-O3B-PG	-4.21	118.37	132.83
41	1C	501	GTP	PA-O3A-PB	-4.21	118.37	132.83
41	Y1	501	GTP	PA-O3A-PB	-4.21	118.38	132.83
39	O8	503	GDP	PA-O3A-PB	-4.21	118.38	132.83
41	Q6	501	GTP	PB-O3B-PG	-4.21	118.39	132.83
41	2W	501	GTP	PB-O3B-PG	-4.21	118.39	132.83
41	H8	501	GTP	PB-O3B-PG	-4.20	118.40	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	E4	502	GDP	PA-O3A-PB	-4.20	118.41	132.83
39	A1	502	GDP	PA-O3A-PB	-4.20	118.42	132.83
41	P9	501	GTP	PB-O3B-PG	-4.20	118.43	132.83
39	P4	503	GDP	PA-O3A-PB	-4.19	118.43	132.83
41	2A	501	GTP	PB-O3B-PG	-4.19	118.43	132.83
41	X6	501	GTP	PB-O3B-PG	-4.19	118.44	132.83
41	W2	501	GTP	PA-O3A-PB	-4.19	118.44	132.83
41	J2	501	GTP	PB-O3B-PG	-4.18	118.47	132.83
41	R0	501	GTP	PA-O3A-PB	-4.18	118.47	132.83
41	3P	501	GTP	PB-O3B-PG	-4.18	118.47	132.83
41	N1	501	GTP	PB-O3B-PG	-4.18	118.48	132.83
41	3M	501	GTP	PB-O3B-PG	-4.18	118.48	132.83
41	P8	501	GTP	PB-O3B-PG	-4.18	118.48	132.83
41	A1	501	GTP	PB-O3B-PG	-4.18	118.49	132.83
41	L2	501	GTP	PA-O3A-PB	-4.18	118.49	132.83
41	M7	501	GTP	PB-O3B-PG	-4.18	118.49	132.83
41	O6	501	GTP	PB-O3B-PG	-4.18	118.49	132.83
41	I0	501	GTP	PA-O3A-PB	-4.18	118.50	132.83
41	V8	501	GTP	PB-O3B-PG	-4.17	118.50	132.83
41	K0	501	GTP	PB-O3B-PG	-4.17	118.50	132.83
39	P6	503	GDP	PA-O3A-PB	-4.17	118.52	132.83
41	H8	501	GTP	PA-O3A-PB	-4.17	118.52	132.83
41	W4	501	GTP	PA-O3A-PB	-4.17	118.52	132.83
39	U2	502	GDP	PA-O3A-PB	-4.16	118.54	132.83
41	T6	501	GTP	PB-O3B-PG	-4.16	118.55	132.83
41	3	501	GTP	PB-O3B-PG	-4.16	118.55	132.83
39	X6	502	GDP	PA-O3A-PB	-4.16	118.55	132.83
41	K4	501	GTP	PA-O3A-PB	-4.16	118.55	132.83
41	2I	501	GTP	PB-O3B-PG	-4.16	118.56	132.83
39	3S	502	GDP	PA-O3A-PB	-4.15	118.57	132.83
41	2I	501	GTP	PA-O3A-PB	-4.15	118.58	132.83
41	G5	501	GTP	PA-O3A-PB	-4.15	118.59	132.83
41	U7	501	GTP	PA-O3A-PB	-4.15	118.59	132.83
39	G8	501	GDP	PA-O3A-PB	-4.15	118.60	132.83
41	M2	501	GTP	PB-O3B-PG	-4.14	118.61	132.83
41	O4	501	GTP	PB-O3B-PG	-4.14	118.62	132.83
41	M6	501	GTP	PA-O3A-PB	-4.14	118.62	132.83
41	N8	501	GTP	PB-O3B-PG	-4.14	118.63	132.83
41	R8	501	GTP	PB-O3B-PG	-4.14	118.63	132.83
41	T8	501	GTP	PB-O3B-PG	-4.13	118.64	132.83
39	A9	502	GDP	PA-O3A-PB	-4.13	118.64	132.83
41	2Y	501	GTP	PA-O3A-PB	-4.13	118.66	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	Y4	502	GDP	PA-O3A-PB	-4.13	118.67	132.83
41	2G	501	GTP	PB-O3B-PG	-4.13	118.67	132.83
39	T0	501	GDP	PA-O3A-PB	-4.13	118.67	132.83
41	X0	501	GTP	PA-O3A-PB	-4.12	118.68	132.83
41	W0	501	GTP	PB-O3B-PG	-4.12	118.69	132.83
41	G1	501	GTP	PB-O3B-PG	-4.12	118.70	132.83
41	G4	501	GTP	PB-O3B-PG	-4.12	118.70	132.83
41	I1	501	GTP	PB-O3B-PG	-4.12	118.70	132.83
41	Q2	501	GTP	PB-O3B-PG	-4.12	118.70	132.83
39	Y6	502	GDP	PA-O3A-PB	-4.11	118.71	132.83
41	L4	501	GTP	PB-O3B-PG	-4.11	118.71	132.83
41	I0	501	GTP	PB-O3B-PG	-4.11	118.71	132.83
39	7	502	GDP	PA-O3A-PB	-4.11	118.71	132.83
41	E4	501	GTP	PA-O3A-PB	-4.11	118.72	132.83
41	F1	501	GTP	PB-O3B-PG	-4.11	118.72	132.83
41	0V	501	GTP	PA-O3A-PB	-4.11	118.72	132.83
41	U6	501	GTP	PB-O3B-PG	-4.11	118.72	132.83
39	1C	502	GDP	PA-O3A-PB	-4.11	118.73	132.83
39	L2	502	GDP	PA-O3A-PB	-4.11	118.74	132.83
41	1H	501	GTP	PB-O3B-PG	-4.10	118.75	132.83
39	D8	501	GDP	PA-O3A-PB	-4.10	118.75	132.83
39	T8	502	GDP	PA-O3A-PB	-4.10	118.76	132.83
39	M4	502	GDP	PA-O3A-PB	-4.10	118.76	132.83
41	G7	501	GTP	PB-O3B-PG	-4.10	118.77	132.83
41	U9	501	GTP	PA-O3A-PB	-4.09	118.78	132.83
41	T2	501	GTP	PB-O3B-PG	-4.09	118.80	132.83
41	V8	501	GTP	PA-O3A-PB	-4.09	118.80	132.83
39	F8	502	GDP	PA-O3A-PB	-4.09	118.81	132.83
41	E1	501	GTP	PA-O3A-PB	-4.08	118.82	132.83
41	P6	501	GTP	PB-O3B-PG	-4.08	118.82	132.83
41	0I	501	GTP	PA-O3A-PB	-4.08	118.83	132.83
41	Y6	501	GTP	PB-O3B-PG	-4.08	118.83	132.83
41	F0	501	GTP	PA-O3A-PB	-4.07	118.85	132.83
41	J6	501	GTP	PB-O3B-PG	-4.07	118.85	132.83
41	F3	501	GTP	PB-O3B-PG	-4.07	118.85	132.83
41	1A	501	GTP	PA-O3A-PB	-4.07	118.86	132.83
41	2E	501	GTP	PA-O3A-PB	-4.07	118.86	132.83
41	V3	501	GTP	PA-O3A-PB	-4.06	118.88	132.83
41	3G	501	GTP	PB-O3B-PG	-4.06	118.88	132.83
41	I1	501	GTP	PA-O3A-PB	-4.06	118.90	132.83
41	H3	501	GTP	PA-O3A-PB	-4.06	118.90	132.83
39	F2	501	GDP	PA-O3A-PB	-4.06	118.91	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	T4	502	GDP	PA-O3A-PB	-4.06	118.91	132.83
41	A9	501	GTP	PA-O3A-PB	-4.06	118.91	132.83
41	U6	501	GTP	PA-O3A-PB	-4.06	118.91	132.83
41	D3	501	GTP	PB-O3B-PG	-4.05	118.91	132.83
41	2S	501	GTP	PA-O3A-PB	-4.05	118.92	132.83
41	O9	501	GTP	PA-O3A-PB	-4.05	118.93	132.83
39	C4	501	GDP	PA-O3A-PB	-4.05	118.94	132.83
39	A7	501	GDP	PA-O3A-PB	-4.05	118.94	132.83
41	N0	501	GTP	PB-O3B-PG	-4.04	118.95	132.83
41	P4	501	GTP	PB-O3B-PG	-4.04	118.95	132.83
41	X7	501	GTP	PB-O3B-PG	-4.04	118.95	132.83
41	Q4	501	GTP	PB-O3B-PG	-4.04	118.96	132.83
39	O2	502	GDP	PA-O3A-PB	-4.04	118.97	132.83
41	1A	501	GTP	PB-O3B-PG	-4.04	118.97	132.83
39	O0	503	GDP	PA-O3A-PB	-4.04	118.98	132.83
41	1S	501	GTP	PB-O3B-PG	-4.03	119.00	132.83
41	D5	501	GTP	PA-O3A-PB	-4.03	119.00	132.83
41	3K	501	GTP	PA-O3A-PB	-4.03	119.01	132.83
41	U2	501	GTP	PA-O3A-PB	-4.02	119.03	132.83
41	3O	501	GTP	PB-O3B-PG	-4.02	119.04	132.83
41	G0	501	GTP	PA-O3A-PB	-4.02	119.05	132.83
41	0Q	501	GTP	PA-O3A-PB	-4.01	119.05	132.83
41	Z3	501	GTP	PB-O3B-PG	-4.01	119.06	132.83
39	0Y	502	GDP	PA-O3A-PB	-4.01	119.06	132.83
41	3I	501	GTP	PB-O3B-PG	-4.01	119.07	132.83
41	I4	501	GTP	PA-O3A-PB	-4.01	119.07	132.83
39	E2	501	GDP	PA-O3A-PB	-4.01	119.08	132.83
41	R0	501	GTP	PB-O3B-PG	-4.00	119.08	132.83
39	2Y	502	GDP	PA-O3A-PB	-4.00	119.09	132.83
41	N0	501	GTP	PA-O3A-PB	-4.00	119.11	132.83
39	G2	501	GDP	PA-O3A-PB	-3.99	119.12	132.83
39	J4	503	GDP	PA-O3A-PB	-3.99	119.12	132.83
41	0Y	501	GTP	PA-O3A-PB	-3.99	119.13	132.83
41	R2	501	GTP	PB-O3B-PG	-3.99	119.13	132.83
41	P4	501	GTP	PA-O3A-PB	-3.99	119.13	132.83
41	M4	501	GTP	PA-O3A-PB	-3.99	119.14	132.83
41	0Y	501	GTP	PB-O3B-PG	-3.98	119.16	132.83
41	1X	501	GTP	PB-O3B-PG	-3.98	119.16	132.83
39	W6	501	GDP	PA-O3A-PB	-3.98	119.16	132.83
41	2Y	501	GTP	PB-O3B-PG	-3.98	119.17	132.83
39	2K	502	GDP	PA-O3A-PB	-3.97	119.19	132.83
41	I4	501	GTP	PB-O3B-PG	-3.97	119.19	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	1W	501	GTP	PB-O3B-PG	-3.97	119.21	132.83
41	2Q	501	GTP	PB-O3B-PG	-3.97	119.22	132.83
41	0F	501	GTP	PA-O3A-PB	-3.96	119.23	132.83
41	R6	501	GTP	PB-O3B-PG	-3.96	119.23	132.83
39	9	501	GDP	PA-O3A-PB	-3.95	119.27	132.83
41	M2	501	GTP	PA-O3A-PB	-3.95	119.27	132.83
41	1N	501	GTP	PA-O3A-PB	-3.95	119.28	132.83
41	D5	501	GTP	PB-O3B-PG	-3.95	119.28	132.83
39	V0	501	GDP	PA-O3A-PB	-3.94	119.29	132.83
41	1L	501	GTP	PB-O3B-PG	-3.94	119.29	132.83
41	H3	501	GTP	PB-O3B-PG	-3.94	119.29	132.83
41	1Q	501	GTP	PB-O3B-PG	-3.94	119.29	132.83
41	S2	501	GTP	PB-O3B-PG	-3.94	119.30	132.83
41	2L	501	GTP	PA-O3A-PB	-3.94	119.32	132.83
41	K7	501	GTP	PA-O3A-PB	-3.93	119.33	132.83
39	M8	501	GDP	PA-O3A-PB	-3.93	119.34	132.83
39	I8	502	GDP	PA-O3A-PB	-3.93	119.34	132.83
41	1D	501	GTP	PB-O3B-PG	-3.93	119.35	132.83
41	1N	501	GTP	PB-O3B-PG	-3.93	119.35	132.83
39	V6	501	GDP	PA-O3A-PB	-3.92	119.36	132.83
41	H6	501	GTP	PA-O3A-PB	-3.92	119.37	132.83
41	H6	501	GTP	PB-O3B-PG	-3.91	119.41	132.83
41	Y6	501	GTP	PA-O3A-PB	-3.91	119.41	132.83
41	U9	501	GTP	PB-O3B-PG	-3.91	119.42	132.83
39	Q6	502	GDP	PA-O3A-PB	-3.91	119.43	132.83
41	0V	501	GTP	PB-O3B-PG	-3.90	119.43	132.83
41	G5	501	GTP	PB-O3B-PG	-3.90	119.45	132.83
41	1H	501	GTP	PA-O3A-PB	-3.90	119.46	132.83
39	X4	502	GDP	PA-O3A-PB	-3.89	119.47	132.83
41	Z7	501	GTP	PA-O3A-PB	-3.89	119.47	132.83
41	Z7	501	GTP	PB-O3B-PG	-3.89	119.47	132.83
39	I0	502	GDP	PA-O3A-PB	-3.89	119.48	132.83
41	D1	501	GTP	PB-O3B-PG	-3.89	119.48	132.83
39	G4	502	GDP	PA-O3A-PB	-3.89	119.48	132.83
41	1T	501	GTP	PB-O3B-PG	-3.88	119.50	132.83
41	1G	501	GTP	PB-O3B-PG	-3.88	119.51	132.83
41	T4	501	GTP	PB-O3B-PG	-3.88	119.51	132.83
41	0I	501	GTP	PB-O3B-PG	-3.87	119.54	132.83
41	M7	501	GTP	PA-O3A-PB	-3.87	119.55	132.83
41	O2	501	GTP	PB-O3B-PG	-3.86	119.57	132.83
39	1E	501	GDP	PA-O3A-PB	-3.86	119.57	132.83
41	0O	501	GTP	PA-O3A-PB	-3.85	119.63	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	3C	502	GDP	PA-O3A-PB	-3.84	119.63	132.83
41	D3	501	GTP	PA-O3A-PB	-3.84	119.64	132.83
39	S8	502	GDP	PA-O3A-PB	-3.84	119.66	132.83
39	F0	502	GDP	PA-O3A-PB	-3.83	119.67	132.83
41	C8	501	GTP	PA-O3A-PB	-3.83	119.67	132.83
39	S6	501	GDP	PA-O3A-PB	-3.83	119.68	132.83
41	F8	501	GTP	PA-O3A-PB	-3.83	119.68	132.83
41	S8	501	GTP	PB-O3B-PG	-3.83	119.68	132.83
41	F5	501	GTP	PB-O3B-PG	-3.83	119.69	132.83
41	X6	501	GTP	PA-O3A-PB	-3.83	119.69	132.83
41	F8	501	GTP	PB-O3B-PG	-3.82	119.70	132.83
41	0F	501	GTP	PB-O3B-PG	-3.81	119.73	132.83
41	W0	501	GTP	PA-O3A-PB	-3.81	119.74	132.83
39	Z4	501	GDP	PA-O3A-PB	-3.81	119.75	132.83
39	Q8	501	GDP	PA-O3A-PB	-3.81	119.75	132.83
41	Z2	501	GTP	PA-O3A-PB	-3.81	119.76	132.83
39	1U	501	GDP	PA-O3A-PB	-3.81	119.77	132.83
39	J0	502	GDP	PA-O3A-PB	-3.80	119.79	132.83
39	1G	502	GDP	PA-O3A-PB	-3.80	119.79	132.83
41	F0	501	GTP	PB-O3B-PG	-3.79	119.81	132.83
41	O0	501	GTP	PB-O3B-PG	-3.79	119.81	132.83
39	0W	502	GDP	PA-O3A-PB	-3.78	119.84	132.83
39	V8	502	GDP	PA-O3A-PB	-3.78	119.87	132.83
41	0Q	501	GTP	PB-O3B-PG	-3.78	119.87	132.83
39	3G	502	GDP	PA-O3A-PB	-3.77	119.88	132.83
41	O6	501	GTP	PA-O3A-PB	-3.77	119.89	132.83
41	1T	501	GTP	PA-O3A-PB	-3.77	119.89	132.83
41	4	501	GTP	PA-O3A-PB	-3.77	119.90	132.83
41	1X	501	GTP	PA-O3A-PB	-3.76	119.92	132.83
39	L0	501	GDP	PA-O3A-PB	-3.75	119.96	132.83
41	1W	501	GTP	PA-O3A-PB	-3.75	119.96	132.83
41	G0	501	GTP	PB-O3B-PG	-3.75	119.97	132.83
41	1G	501	GTP	PA-O3A-PB	-3.75	119.97	132.83
39	K8	501	GDP	PA-O3A-PB	-3.74	119.98	132.83
41	E8	501	GTP	PB-O3B-PG	-3.74	119.99	132.83
39	L4	502	GDP	PA-O3A-PB	-3.74	120.00	132.83
39	N0	502	GDP	PA-O3A-PB	-3.74	120.00	132.83
39	2E	502	GDP	PA-O3A-PB	-3.74	120.00	132.83
39	3A	502	GDP	PA-O3A-PB	-3.73	120.01	132.83
41	R4	501	GTP	PB-O3B-PG	-3.73	120.02	132.83
39	R0	502	GDP	PA-O3A-PB	-3.73	120.03	132.83
41	0C	501	GTP	PB-O3B-PG	-3.73	120.04	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	Y4	501	GTP	PA-O3A-PB	-3.73	120.04	132.83
39	F6	501	GDP	PA-O3A-PB	-3.73	120.04	132.83
39	1O	501	GDP	PA-O3A-PB	-3.72	120.08	132.83
39	S4	501	GDP	PA-O3A-PB	-3.71	120.08	132.83
39	K6	502	GDP	PA-O3A-PB	-3.71	120.09	132.83
39	3I	502	GDP	PA-O3A-PB	-3.71	120.09	132.83
41	X4	501	GTP	PB-O3B-PG	-3.70	120.12	132.83
41	3G	501	GTP	PA-O3A-PB	-3.70	120.12	132.83
39	C2	501	GDP	PA-O3A-PB	-3.70	120.14	132.83
41	0S	501	GTP	PA-O3A-PB	-3.69	120.15	132.83
41	0A	501	GTP	PA-O3A-PB	-3.68	120.19	132.83
41	0M	501	GTP	PB-O3B-PG	-3.67	120.22	132.83
41	0O	501	GTP	PB-O3B-PG	-3.67	120.23	132.83
41	E8	501	GTP	PA-O3A-PB	-3.67	120.24	132.83
41	0K	501	GTP	PB-O3B-PG	-3.66	120.25	132.83
39	M0	502	GDP	PA-O3A-PB	-3.66	120.26	132.83
39	I4	502	GDP	PA-O3A-PB	-3.66	120.27	132.83
39	M2	502	GDP	PA-O3A-PB	-3.66	120.27	132.83
41	3C	501	GTP	C5-C6-N1	3.65	120.40	113.95
41	0S	501	GTP	PB-O3B-PG	-3.65	120.29	132.83
41	2N	501	GTP	PA-O3A-PB	-3.65	120.30	132.83
39	J8	502	GDP	PA-O3A-PB	-3.65	120.30	132.83
39	2C	502	GDP	PA-O3A-PB	-3.65	120.30	132.83
41	7	501	GTP	PB-O3B-PG	-3.65	120.31	132.83
41	C9	501	GTP	C5-C6-N1	3.64	120.38	113.95
39	G6	501	GDP	PA-O3A-PB	-3.64	120.33	132.83
39	0K	502	GDP	PA-O3A-PB	-3.64	120.33	132.83
41	G9	501	GTP	PA-O3A-PB	-3.64	120.33	132.83
39	K4	502	GDP	PA-O3A-PB	-3.64	120.34	132.83
39	W2	503	GDP	PA-O3A-PB	-3.64	120.34	132.83
39	Q0	501	GDP	PA-O3A-PB	-3.63	120.38	132.83
39	2M	501	GDP	PA-O3A-PB	-3.63	120.39	132.83
41	1D	501	GTP	PA-O3A-PB	-3.63	120.39	132.83
41	3A	501	GTP	C5-C6-N1	3.62	120.35	113.95
41	1C	501	GTP	PB-O3B-PG	-3.62	120.40	132.83
41	T8	501	GTP	PA-O3A-PB	-3.61	120.44	132.83
41	2Q	501	GTP	C5-C6-N1	3.61	120.33	113.95
39	H8	503	GDP	PA-O3A-PB	-3.61	120.45	132.83
39	0C	502	GDP	PA-O3A-PB	-3.60	120.47	132.83
41	2Q	501	GTP	PA-O3A-PB	-3.59	120.50	132.83
41	E6	501	GTP	C5-C6-N1	3.58	120.28	113.95
41	C9	501	GTP	PB-O3B-PG	-3.58	120.53	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	G1	501	GTP	C5-C6-N1	3.58	120.28	113.95
39	V2	503	GDP	PA-O3A-PB	-3.58	120.55	132.83
41	L6	501	GTP	PA-O3A-PB	-3.58	120.55	132.83
41	W8	501	GTP	PA-O3A-PB	-3.58	120.55	132.83
41	Z3	501	GTP	C5-C6-N1	3.58	120.27	113.95
41	S5	501	GTP	C5-C6-N1	3.57	120.26	113.95
41	Z6	501	GTP	PB-O3B-PG	-3.57	120.56	132.83
41	F3	501	GTP	PA-O3A-PB	-3.57	120.56	132.83
41	Z0	501	GTP	PB-O3B-PG	-3.57	120.57	132.83
41	3D	501	GTP	PA-O3A-PB	-3.57	120.57	132.83
41	0F	501	GTP	C5-C6-N1	3.57	120.26	113.95
41	2W	501	GTP	C5-C6-N1	3.57	120.25	113.95
41	E4	501	GTP	PB-O3B-PG	-3.57	120.59	132.83
39	U4	502	GDP	PA-O3A-PB	-3.56	120.61	132.83
41	L7	501	GTP	PB-O3B-PG	-3.56	120.61	132.83
41	1Q	501	GTP	C5-C6-N1	3.56	120.23	113.95
41	0C	501	GTP	PA-O3A-PB	-3.55	120.63	132.83
39	M6	502	GDP	PA-O3A-PB	-3.55	120.63	132.83
41	Z2	501	GTP	C5-C6-N1	3.55	120.23	113.95
39	2G	502	GDP	PA-O3A-PB	-3.55	120.63	132.83
41	D7	501	GTP	PB-O3B-PG	-3.55	120.64	132.83
41	2S	501	GTP	C5-C6-N1	3.55	120.22	113.95
41	P9	501	GTP	C5-C6-N1	3.55	120.21	113.95
41	1N	501	GTP	C5-C6-N1	3.54	120.21	113.95
41	T4	501	GTP	C5-C6-N1	3.54	120.20	113.95
39	0I	502	GDP	PA-O3A-PB	-3.54	120.68	132.83
39	2I	502	GDP	PA-O3A-PB	-3.54	120.68	132.83
39	X0	502	GDP	PA-O3A-PB	-3.54	120.68	132.83
39	N2	501	GDP	PA-O3A-PB	-3.54	120.69	132.83
41	D1	501	GTP	C5-C6-N1	3.54	120.20	113.95
39	0W	502	GDP	C3'-C2'-C1'	3.54	106.30	100.98
39	Z8	501	GDP	PA-O3A-PB	-3.54	120.69	132.83
41	H2	501	GTP	PA-O3A-PB	-3.53	120.70	132.83
39	1M	501	GDP	PA-O3A-PB	-3.53	120.72	132.83
41	3T	501	GTP	PA-O3A-PB	-3.53	120.73	132.83
41	1T	501	GTP	C5-C6-N1	3.52	120.17	113.95
39	V4	501	GDP	PA-O3A-PB	-3.52	120.75	132.83
39	1K	501	GDP	PA-O3A-PB	-3.52	120.76	132.83
41	0A	501	GTP	PB-O3B-PG	-3.51	120.77	132.83
39	1S	502	GDP	PA-O3A-PB	-3.51	120.77	132.83
41	T6	501	GTP	C5-C6-N1	3.51	120.15	113.95
41	3O	501	GTP	C5-C6-N1	3.51	120.15	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	Q2	501	GTP	C5-C6-N1	3.51	120.15	113.95
41	Q6	501	GTP	C5-C6-N1	3.50	120.14	113.95
39	0U	501	GDP	PA-O3A-PB	-3.50	120.81	132.83
39	1W	502	GDP	PA-O3A-PB	-3.50	120.81	132.83
41	L7	501	GTP	C5-C6-N1	3.50	120.12	113.95
41	I5	501	GTP	PA-O3A-PB	-3.49	120.83	132.83
41	0A	501	GTP	C5-C6-N1	3.49	120.12	113.95
39	1Q	502	GDP	PA-O3A-PB	-3.49	120.84	132.83
39	2S	502	GDP	PA-O3A-PB	-3.49	120.85	132.83
41	R4	501	GTP	C5-C6-N1	3.49	120.11	113.95
41	3I	501	GTP	C5-C6-N1	3.49	120.11	113.95
39	J6	502	GDP	PA-O3A-PB	-3.49	120.86	132.83
41	E1	501	GTP	C5-C6-N1	3.49	120.11	113.95
41	3P	501	GTP	C5-C6-N1	3.49	120.11	113.95
41	J4	501	GTP	C5-C6-N1	3.48	120.10	113.95
41	T8	501	GTP	C5-C6-N1	3.48	120.10	113.95
41	2U	501	GTP	C5-C6-N1	3.48	120.09	113.95
41	Z2	501	GTP	PB-O3B-PG	-3.48	120.89	132.83
41	J8	501	GTP	C5-C6-N1	3.48	120.09	113.95
41	B0	501	GTP	C5-C6-N1	3.48	120.09	113.95
41	A9	501	GTP	C5-C6-N1	3.47	120.08	113.95
41	Z3	501	GTP	PA-O3A-PB	-3.47	120.91	132.83
41	N8	501	GTP	C5-C6-N1	3.47	120.08	113.95
41	P4	501	GTP	C5-C6-N1	3.47	120.08	113.95
41	V3	501	GTP	C5-C6-N1	3.47	120.08	113.95
41	S8	501	GTP	C5-C6-N1	3.47	120.08	113.95
39	R2	502	GDP	PA-O3A-PB	-3.47	120.93	132.83
41	C8	501	GTP	C5-C6-N1	3.47	120.07	113.95
41	4	501	GTP	C5-C6-N1	3.47	120.07	113.95
41	3M	501	GTP	C5-C6-N1	3.46	120.07	113.95
41	R2	501	GTP	C5-C6-N1	3.46	120.07	113.95
41	7	501	GTP	C5-C6-N1	3.46	120.07	113.95
41	L6	501	GTP	C5-C6-N1	3.46	120.06	113.95
41	P6	501	GTP	C5-C6-N1	3.46	120.06	113.95
41	C1	501	GTP	C5-C6-N1	3.46	120.06	113.95
41	O9	501	GTP	C5-C6-N1	3.46	120.05	113.95
41	C0	501	GTP	C5-C6-N1	3.45	120.05	113.95
41	Y4	501	GTP	C5-C6-N1	3.45	120.05	113.95
39	X2	501	GDP	PA-O3A-PB	-3.45	120.98	132.83
39	0Y	502	GDP	C3'-C2'-C1'	3.45	106.17	100.98
41	G7	501	GTP	C5-C6-N1	3.45	120.03	113.95
41	M6	501	GTP	C5-C6-N1	3.45	120.03	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	1X	501	GTP	C5-C6-N1	3.45	120.03	113.95
41	T2	501	GTP	C5-C6-N1	3.44	120.03	113.95
39	0M	502	GDP	PA-O3A-PB	-3.44	121.03	132.83
41	J6	501	GTP	C5-C6-N1	3.44	120.02	113.95
39	1G	502	GDP	C3'-C2'-C1'	3.44	106.15	100.98
41	E8	501	GTP	C5-C6-N1	3.44	120.02	113.95
41	K1	501	GTP	PB-O3B-PG	-3.43	121.04	132.83
41	O2	501	GTP	C5-C6-N1	3.43	120.02	113.95
41	R8	501	GTP	C5-C6-N1	3.43	120.02	113.95
41	3T	501	GTP	PB-O3B-PG	-3.43	121.05	132.83
41	R6	501	GTP	C5-C6-N1	3.43	120.01	113.95
41	8	501	GTP	C5-C6-N1	3.43	120.01	113.95
41	K1	501	GTP	C5-C6-N1	3.43	120.01	113.95
41	N1	501	GTP	C5-C6-N1	3.43	120.00	113.95
41	L4	501	GTP	C5-C6-N1	3.43	120.00	113.95
41	3S	501	GTP	C5-C6-N1	3.42	119.99	113.95
41	I8	501	GTP	C5-C6-N1	3.42	119.99	113.95
41	J0	501	GTP	C5-C6-N1	3.42	119.99	113.95
41	3M	501	GTP	C2-N1-C6	-3.42	118.81	125.10
41	S0	501	GTP	C5-C6-N1	3.41	119.98	113.95
41	M0	501	GTP	C5-C6-N1	3.41	119.98	113.95
41	0C	501	GTP	C5-C6-N1	3.41	119.98	113.95
41	R0	501	GTP	C5-C6-N1	3.41	119.98	113.95
41	1L	501	GTP	C5-C6-N1	3.41	119.98	113.95
41	2Y	501	GTP	C5-C6-N1	3.41	119.97	113.95
41	3G	501	GTP	C5-C6-N1	3.41	119.97	113.95
41	L2	501	GTP	C5-C6-N1	3.41	119.97	113.95
41	Z6	501	GTP	C5-C6-N1	3.41	119.97	113.95
41	O4	501	GTP	C5-C6-N1	3.40	119.96	113.95
41	Z7	501	GTP	C5-C6-N1	3.40	119.96	113.95
41	U9	501	GTP	C5-C6-N1	3.40	119.95	113.95
41	V2	501	GTP	C5-C6-N1	3.40	119.95	113.95
41	0S	501	GTP	C5-C6-N1	3.39	119.95	113.95
39	1A	503	GDP	PA-O3A-PB	-3.39	121.18	132.83
41	M7	501	GTP	C5-C6-N1	3.39	119.94	113.95
41	3D	501	GTP	C5-C6-N1	3.39	119.94	113.95
41	D7	501	GTP	C5-C6-N1	3.39	119.94	113.95
39	V6	501	GDP	C3'-C2'-C1'	3.39	106.08	100.98
41	Q4	501	GTP	C5-C6-N1	3.39	119.93	113.95
41	X0	501	GTP	C5-C6-N1	3.39	119.93	113.95
41	0Q	501	GTP	C5-C6-N1	3.39	119.93	113.95
39	Y6	502	GDP	C3'-C2'-C1'	3.38	106.07	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	G5	501	GTP	C5-C6-N1	3.38	119.93	113.95
41	3T	501	GTP	C5-C6-N1	3.38	119.92	113.95
39	A7	501	GDP	C3'-C2'-C1'	3.38	106.07	100.98
41	3C	501	GTP	C2-N1-C6	-3.38	118.87	125.10
41	Z0	501	GTP	PA-O3A-PB	-3.38	121.23	132.83
41	3P	501	GTP	C2-N1-C6	-3.38	118.88	125.10
41	I4	501	GTP	C5-C6-N1	3.38	119.92	113.95
41	3K	501	GTP	C5-C6-N1	3.38	119.92	113.95
41	N3	501	GTP	PB-O3B-PG	-3.38	121.24	132.83
41	K0	501	GTP	C5-C6-N1	3.38	119.91	113.95
41	2N	501	GTP	C5-C6-N1	3.38	119.91	113.95
41	I5	501	GTP	C5-C6-N1	3.38	119.91	113.95
39	Z6	502	GDP	PA-O3A-PB	-3.37	121.25	132.83
41	A2	501	GTP	C5-C6-N1	3.37	119.91	113.95
41	F0	501	GTP	C5-C6-N1	3.37	119.90	113.95
41	B5	501	GTP	C5-C6-N1	3.36	119.89	113.95
41	F8	501	GTP	C5-C6-N1	3.36	119.89	113.95
41	M2	501	GTP	C5-C6-N1	3.36	119.89	113.95
41	W0	501	GTP	C2-N1-C6	-3.36	118.91	125.10
41	3	501	GTP	C5-C6-N1	3.36	119.88	113.95
41	K6	501	GTP	C5-C6-N1	3.36	119.88	113.95
41	Y0	501	GTP	C5-C6-N1	3.36	119.88	113.95
41	O6	501	GTP	C5-C6-N1	3.36	119.88	113.95
41	H3	501	GTP	C5-C6-N1	3.36	119.88	113.95
41	1S	501	GTP	C5-C6-N1	3.36	119.88	113.95
41	3S	501	GTP	C2-N1-C6	-3.36	118.92	125.10
41	3O	501	GTP	C2-N1-C6	-3.35	118.93	125.10
41	W0	501	GTP	C5-C6-N1	3.35	119.87	113.95
41	2L	501	GTP	C5-C6-N1	3.35	119.86	113.95
41	P8	501	GTP	C5-C6-N1	3.35	119.86	113.95
41	N0	501	GTP	C5-C6-N1	3.34	119.86	113.95
41	X4	501	GTP	C5-C6-N1	3.34	119.86	113.95
41	D3	501	GTP	C5-C6-N1	3.34	119.86	113.95
39	Y8	501	GDP	PA-O3A-PB	-3.34	121.35	132.83
41	1W	501	GTP	C5-C6-N1	3.34	119.86	113.95
41	H2	501	GTP	C5-C6-N1	3.34	119.85	113.95
41	M4	501	GTP	C5-C6-N1	3.34	119.85	113.95
41	3P	501	GTP	PA-O3A-PB	-3.34	121.37	132.83
41	J2	501	GTP	C5-C6-N1	3.34	119.85	113.95
41	A1	501	GTP	C5-C6-N1	3.34	119.84	113.95
41	O0	501	GTP	C5-C6-N1	3.34	119.84	113.95
41	F1	501	GTP	C5-C6-N1	3.33	119.84	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	2K	501	GTP	C5-C6-N1	3.33	119.84	113.95
41	E4	501	GTP	C5-C6-N1	3.33	119.84	113.95
39	B1	501	GDP	C3'-C2'-C1'	3.33	106.00	100.98
41	C9	501	GTP	C2-N1-C6	-3.33	118.96	125.10
39	A3	501	GDP	C3'-C2'-C1'	3.33	105.99	100.98
41	Y1	501	GTP	C5-C6-N1	3.33	119.83	113.95
41	K7	501	GTP	C5-C6-N1	3.33	119.83	113.95
41	K9	501	GTP	C5-C6-N1	3.33	119.83	113.95
41	H8	501	GTP	C5-C6-N1	3.33	119.83	113.95
41	F3	501	GTP	C5-C6-N1	3.33	119.83	113.95
41	0M	501	GTP	C5-C6-N1	3.33	119.83	113.95
41	W2	501	GTP	C5-C6-N1	3.33	119.83	113.95
41	O8	501	GTP	C5-C6-N1	3.32	119.82	113.95
39	1W	502	GDP	C3'-C2'-C1'	3.32	105.98	100.98
41	C8	501	GTP	PB-O3B-PG	-3.32	121.43	132.83
41	0K	501	GTP	C5-C6-N1	3.32	119.82	113.95
41	U2	501	GTP	C5-C6-N1	3.32	119.82	113.95
39	H2	503	GDP	C3'-C2'-C1'	3.32	105.97	100.98
41	2I	501	GTP	C5-C6-N1	3.31	119.81	113.95
41	3A	501	GTP	C2-N1-C6	-3.31	119.00	125.10
41	I0	501	GTP	C5-C6-N1	3.31	119.80	113.95
41	Y6	501	GTP	C5-C6-N1	3.31	119.80	113.95
41	D5	501	GTP	C5-C6-N1	3.31	119.80	113.95
41	0O	501	GTP	C5-C6-N1	3.31	119.80	113.95
41	X6	501	GTP	C5-C6-N1	3.31	119.79	113.95
39	7	502	GDP	C3'-C2'-C1'	3.31	105.96	100.98
41	U6	501	GTP	C5-C6-N1	3.31	119.79	113.95
39	W4	502	GDP	PA-O3A-PB	-3.30	121.49	132.83
41	N6	501	GTP	C5-C6-N1	3.30	119.78	113.95
41	S2	501	GTP	C5-C6-N1	3.30	119.78	113.95
39	R6	503	GDP	PA-O3A-PB	-3.30	121.51	132.83
39	1U	501	GDP	C3'-C2'-C1'	3.30	105.94	100.98
41	1A	501	GTP	C5-C6-N1	3.30	119.77	113.95
41	1Q	501	GTP	C2-N1-C6	-3.30	119.03	125.10
39	V2	503	GDP	C3'-C2'-C1'	3.30	105.94	100.98
41	F5	501	GTP	C5-C6-N1	3.29	119.77	113.95
41	I1	501	GTP	C5-C6-N1	3.29	119.77	113.95
39	1S	502	GDP	C3'-C2'-C1'	3.29	105.93	100.98
41	H6	501	GTP	C5-C6-N1	3.29	119.76	113.95
41	2C	501	GTP	C5-C6-N1	3.29	119.76	113.95
41	Z0	501	GTP	C5-C6-N1	3.29	119.75	113.95
41	W5	501	GTP	C5-C6-N1	3.29	119.75	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	0Y	501	GTP	C5-C6-N1	3.28	119.75	113.95
39	0Q	502	GDP	PA-O3A-PB	-3.28	121.57	132.83
41	3I	501	GTP	C2-N1-C6	-3.28	119.06	125.10
39	I0	502	GDP	C3'-C2'-C1'	3.28	105.91	100.98
39	W2	503	GDP	C3'-C2'-C1'	3.27	105.91	100.98
39	R8	502	GDP	PA-O3A-PB	-3.27	121.60	132.83
41	2A	501	GTP	C5-C6-N1	3.27	119.73	113.95
41	G0	501	GTP	C5-C6-N1	3.27	119.72	113.95
39	P8	502	GDP	PA-O3A-PB	-3.27	121.61	132.83
41	W4	501	GTP	C2-N1-C6	-3.27	119.08	125.10
41	7	501	GTP	C2-N1-C6	-3.27	119.08	125.10
41	0I	501	GTP	C5-C6-N1	3.27	119.72	113.95
41	2S	501	GTP	C2-N1-C6	-3.26	119.09	125.10
41	B2	501	GTP	C5-C6-N1	3.26	119.72	113.95
41	2Q	501	GTP	C2-N1-C6	-3.26	119.09	125.10
39	2Q	502	GDP	PA-O3A-PB	-3.26	121.63	132.83
41	W8	501	GTP	C5-C6-N1	3.26	119.71	113.95
41	X7	501	GTP	C5-C6-N1	3.26	119.71	113.95
39	0U	501	GDP	C3'-C2'-C1'	3.26	105.89	100.98
41	U4	501	GTP	C5-C6-N1	3.26	119.71	113.95
41	W4	501	GTP	C5-C6-N1	3.26	119.71	113.95
41	2G	501	GTP	C5-C6-N1	3.26	119.71	113.95
41	V8	501	GTP	C5-C6-N1	3.26	119.70	113.95
39	2M	501	GDP	C3'-C2'-C1'	3.26	105.88	100.98
39	V4	501	GDP	C3'-C2'-C1'	3.26	105.88	100.98
41	U7	501	GTP	C5-C6-N1	3.26	119.70	113.95
41	8	501	GTP	C2-N1-C6	-3.26	119.10	125.10
41	G4	501	GTP	C5-C6-N1	3.26	119.70	113.95
39	H4	501	GDP	C3'-C2'-C1'	3.25	105.88	100.98
41	J8	501	GTP	C2-N1-C6	-3.25	119.11	125.10
41	B0	501	GTP	C2-N1-C6	-3.25	119.11	125.10
41	3D	501	GTP	C2-N1-C6	-3.25	119.11	125.10
41	C5	501	GTP	C5-C6-N1	3.25	119.69	113.95
41	2W	501	GTP	C2-N1-C6	-3.25	119.12	125.10
41	0V	501	GTP	C5-C6-N1	3.25	119.69	113.95
41	B7	501	GTP	C5-C6-N1	3.25	119.68	113.95
41	1T	501	GTP	C2-N1-C6	-3.24	119.12	125.10
41	O2	501	GTP	PA-O3A-PB	-3.24	121.71	132.83
41	2Y	501	GTP	C2-N1-C6	-3.24	119.13	125.10
39	2W	502	GDP	PA-O3A-PB	-3.24	121.72	132.83
41	A4	501	GTP	C5-C6-N1	3.23	119.66	113.95
41	1C	501	GTP	C5-C6-N1	3.23	119.66	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	J0	501	GTP	C2-N1-C6	-3.23	119.15	125.10
41	1D	501	GTP	C5-C6-N1	3.23	119.65	113.95
41	A9	501	GTP	C2-N1-C6	-3.23	119.15	125.10
41	G9	501	GTP	C5-C6-N1	3.23	119.65	113.95
41	2C	501	GTP	C8-N7-C5	3.23	109.13	102.99
39	I4	502	GDP	C3'-C2'-C1'	3.22	105.83	100.98
41	T4	501	GTP	C2-N1-C6	-3.22	119.16	125.10
41	1H	501	GTP	C5-C6-N1	3.22	119.63	113.95
41	L7	501	GTP	C2-N1-C6	-3.21	119.18	125.10
39	S0	502	GDP	PA-O3A-PB	-3.21	121.80	132.83
41	3T	501	GTP	C2-N1-C6	-3.21	119.18	125.10
41	K4	501	GTP	C5-C6-N1	3.21	119.62	113.95
41	3G	501	GTP	C2-N1-C6	-3.21	119.18	125.10
41	2E	501	GTP	C5-C6-N1	3.21	119.62	113.95
39	2A	502	GDP	PA-O3A-PB	-3.21	121.81	132.83
41	W2	501	GTP	C2-N1-C6	-3.21	119.19	125.10
41	4	501	GTP	C2-N1-C6	-3.21	119.19	125.10
41	2U	501	GTP	C2-N1-C6	-3.21	119.20	125.10
41	I8	501	GTP	C2-N1-C6	-3.20	119.20	125.10
39	W8	503	GDP	C3'-C2'-C1'	3.20	105.80	100.98
39	0G	501	GDP	PA-O3A-PB	-3.20	121.84	132.83
41	C1	501	GTP	C2-N1-C6	-3.20	119.21	125.10
39	W4	502	GDP	C3'-C2'-C1'	3.20	105.80	100.98
41	S8	501	GTP	C2-N1-C6	-3.20	119.21	125.10
41	W5	501	GTP	C2-N1-C6	-3.20	119.21	125.10
41	J8	501	GTP	C8-N7-C5	3.19	109.07	102.99
41	L4	501	GTP	C8-N7-C5	3.19	109.07	102.99
41	C0	501	GTP	C2-N1-C6	-3.19	119.23	125.10
41	D1	501	GTP	C2-N1-C6	-3.19	119.23	125.10
41	S5	501	GTP	C2-N1-C6	-3.19	119.23	125.10
41	Z6	501	GTP	PA-O3A-PB	-3.19	121.89	132.83
41	T6	501	GTP	C2-N1-C6	-3.19	119.23	125.10
41	E1	501	GTP	C2-N1-C6	-3.19	119.23	125.10
41	N3	501	GTP	C5-C6-N1	3.18	119.58	113.95
39	V0	501	GDP	C3'-C2'-C1'	3.18	105.77	100.98
41	3	501	GTP	C2-N1-C6	-3.18	119.24	125.10
41	O6	501	GTP	C2-N1-C6	-3.18	119.24	125.10
39	K0	502	GDP	PA-O3A-PB	-3.18	121.91	132.83
41	A2	501	GTP	PA-O3A-PB	-3.18	121.91	132.83
41	2K	501	GTP	C8-N7-C5	3.18	109.05	102.99
41	1X	501	GTP	C2-N1-C6	-3.18	119.25	125.10
41	3K	501	GTP	C2-N1-C6	-3.18	119.25	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	C9	501	GTP	C8-N7-C5	3.17	109.04	102.99
41	L7	501	GTP	C3'-C2'-C1'	3.17	105.76	100.98
39	1K	501	GDP	C3'-C2'-C1'	3.17	105.76	100.98
41	V8	501	GTP	C2-N1-C6	-3.17	119.26	125.10
41	C8	501	GTP	C2-N1-C6	-3.17	119.26	125.10
41	P9	501	GTP	C2-N1-C6	-3.17	119.26	125.10
41	R4	501	GTP	C2-N1-C6	-3.17	119.26	125.10
41	T8	501	GTP	C2-N1-C6	-3.17	119.26	125.10
41	2A	501	GTP	C8-N7-C5	3.17	109.03	102.99
41	T2	501	GTP	C2-N1-C6	-3.17	119.27	125.10
41	2K	501	GTP	C2-N1-C6	-3.16	119.28	125.10
39	3	502	GDP	C3'-C2'-C1'	3.16	105.74	100.98
41	K0	501	GTP	C2-N1-C6	-3.16	119.28	125.10
41	0S	501	GTP	C8-N7-C5	3.16	109.01	102.99
41	Q2	501	GTP	C2-N1-C6	-3.16	119.28	125.10
41	O8	501	GTP	C2-N1-C6	-3.16	119.29	125.10
39	2U	502	GDP	PA-O3A-PB	-3.16	122.00	132.83
41	1G	501	GTP	C5-C6-N1	3.15	119.52	113.95
41	F3	501	GTP	C2-N1-C6	-3.15	119.30	125.10
41	1N	501	GTP	C2-N1-C6	-3.15	119.30	125.10
41	V3	501	GTP	C2-N1-C6	-3.15	119.30	125.10
41	P6	501	GTP	C2-N1-C6	-3.15	119.31	125.10
41	2I	501	GTP	C2-N1-C6	-3.14	119.31	125.10
39	N0	502	GDP	C3'-C2'-C1'	3.14	105.71	100.98
41	2C	501	GTP	C2-N1-C6	-3.14	119.31	125.10
41	L6	501	GTP	C2-N1-C6	-3.14	119.31	125.10
41	M0	501	GTP	C2-N1-C6	-3.14	119.31	125.10
41	A1	501	GTP	C2-N1-C6	-3.14	119.31	125.10
41	M2	501	GTP	C2-N1-C6	-3.14	119.32	125.10
41	X0	501	GTP	C2-N1-C6	-3.14	119.32	125.10
41	Q6	501	GTP	C2-N1-C6	-3.14	119.32	125.10
41	2I	501	GTP	C8-N7-C5	3.14	108.97	102.99
41	A1	501	GTP	C8-N7-C5	3.14	108.97	102.99
41	W8	501	GTP	C2-N1-C6	-3.14	119.32	125.10
41	1S	501	GTP	C2-N1-C6	-3.14	119.32	125.10
39	3I	502	GDP	C3'-C2'-C1'	3.13	105.70	100.98
41	K7	501	GTP	C2-N1-C6	-3.13	119.33	125.10
41	O6	501	GTP	C8-N7-C5	3.13	108.95	102.99
41	2G	501	GTP	C8-N7-C5	3.13	108.95	102.99
41	O9	501	GTP	C8-N7-C5	3.13	108.95	102.99
41	3C	501	GTP	C8-N7-C5	3.13	108.95	102.99
41	G1	501	GTP	C2-N1-C6	-3.13	119.34	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	3I	501	GTP	C8-N7-C5	3.13	108.95	102.99
41	W4	501	GTP	C8-N7-C5	3.13	108.95	102.99
41	3D	501	GTP	C8-N7-C5	3.13	108.94	102.99
39	Z0	502	GDP	PA-O3A-PB	-3.12	122.11	132.83
41	J2	501	GTP	C2-N1-C6	-3.12	119.35	125.10
41	2Y	501	GTP	C8-N7-C5	3.12	108.94	102.99
41	N8	501	GTP	C2-N1-C6	-3.12	119.35	125.10
41	Z6	501	GTP	C2-N1-C6	-3.12	119.36	125.10
41	M4	501	GTP	C2-N1-C6	-3.12	119.36	125.10
41	E8	501	GTP	C2-N1-C6	-3.11	119.37	125.10
41	M6	501	GTP	C2-N1-C6	-3.11	119.37	125.10
41	O4	501	GTP	C2-N1-C6	-3.11	119.37	125.10
41	W0	501	GTP	C3'-C2'-C1'	3.11	105.66	100.98
41	R2	501	GTP	C2-N1-C6	-3.11	119.37	125.10
41	O9	501	GTP	C2-N1-C6	-3.11	119.37	125.10
41	D7	501	GTP	C2-N1-C6	-3.11	119.38	125.10
41	J0	501	GTP	C8-N7-C5	3.11	108.91	102.99
41	K0	501	GTP	C8-N7-C5	3.11	108.91	102.99
39	A3	501	GDP	PA-O3A-PB	-3.11	122.17	132.83
41	M2	501	GTP	C8-N7-C5	3.11	108.91	102.99
41	L4	501	GTP	C2-N1-C6	-3.10	119.38	125.10
41	2A	501	GTP	C2-N1-C6	-3.10	119.38	125.10
41	3M	501	GTP	C8-N7-C5	3.10	108.90	102.99
41	2N	501	GTP	C2-N1-C6	-3.10	119.39	125.10
41	C8	501	GTP	C8-N7-C5	3.10	108.90	102.99
41	K1	501	GTP	PA-O3A-PB	-3.10	122.18	132.83
41	D5	501	GTP	C2-N1-C6	-3.10	119.39	125.10
41	A9	501	GTP	C8-N7-C5	3.10	108.89	102.99
41	2L	501	GTP	C2-N1-C6	-3.10	119.39	125.10
39	X0	502	GDP	C3'-C2'-C1'	3.10	105.64	100.98
41	W2	501	GTP	C8-N7-C5	3.10	108.89	102.99
41	J4	501	GTP	C2-N1-C6	-3.10	119.40	125.10
41	1L	501	GTP	C2-N1-C6	-3.10	119.40	125.10
39	0S	502	GDP	C3'-C2'-C1'	3.10	105.64	100.98
41	X0	501	GTP	C8-N7-C5	3.10	108.89	102.99
41	T2	501	GTP	C8-N7-C5	3.09	108.88	102.99
41	W5	501	GTP	C8-N7-C5	3.09	108.88	102.99
41	3K	501	GTP	C8-N7-C5	3.09	108.88	102.99
41	R0	501	GTP	C2-N1-C6	-3.09	119.41	125.10
41	C1	501	GTP	C8-N7-C5	3.09	108.88	102.99
41	L2	501	GTP	C2-N1-C6	-3.09	119.41	125.10
39	0S	502	GDP	PA-O3A-PB	-3.09	122.22	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	N6	501	GTP	C2-N1-C6	-3.09	119.41	125.10
41	O4	501	GTP	C8-N7-C5	3.09	108.87	102.99
41	K1	501	GTP	C3'-C2'-C1'	3.09	105.63	100.98
39	L6	502	GDP	C3'-C2'-C1'	3.09	105.63	100.98
41	O8	501	GTP	C8-N7-C5	3.09	108.87	102.99
41	J6	501	GTP	C2-N1-C6	-3.09	119.42	125.10
39	Z2	503	GDP	PA-O3A-PB	-3.09	122.24	132.83
39	0E	501	GDP	PA-O3A-PB	-3.08	122.24	132.83
41	R6	501	GTP	C8-N7-C5	3.08	108.87	102.99
39	K6	502	GDP	C3'-C2'-C1'	3.08	105.62	100.98
41	N1	501	GTP	C2-N1-C6	-3.08	119.42	125.10
41	3O	501	GTP	C8-N7-C5	3.08	108.86	102.99
41	2N	501	GTP	C8-N7-C5	3.08	108.86	102.99
41	H2	501	GTP	C2-N1-C6	-3.08	119.42	125.10
41	Y4	501	GTP	C2-N1-C6	-3.08	119.42	125.10
41	I8	501	GTP	C8-N7-C5	3.08	108.86	102.99
41	W0	501	GTP	C8-N7-C5	3.08	108.86	102.99
41	L6	501	GTP	C8-N7-C5	3.08	108.85	102.99
41	B7	501	GTP	C8-N7-C5	3.08	108.85	102.99
41	R8	501	GTP	C2-N1-C6	-3.07	119.44	125.10
41	E6	501	GTP	C2-N1-C6	-3.07	119.44	125.10
39	A5	501	GDP	C3'-C2'-C1'	3.07	105.60	100.98
41	2W	501	GTP	C8-N7-C5	3.07	108.84	102.99
41	F1	501	GTP	C2-N1-C6	-3.07	119.45	125.10
41	C5	501	GTP	C8-N7-C5	3.07	108.83	102.99
39	C6	501	GDP	C3'-C2'-C1'	3.07	105.60	100.98
41	V8	501	GTP	C8-N7-C5	3.07	108.83	102.99
39	1O	501	GDP	C3'-C2'-C1'	3.07	105.59	100.98
41	P4	501	GTP	C2-N1-C6	-3.07	119.45	125.10
41	K6	501	GTP	C8-N7-C5	3.06	108.83	102.99
41	2L	501	GTP	C8-N7-C5	3.06	108.83	102.99
41	G0	501	GTP	C8-N7-C5	3.06	108.82	102.99
41	1X	501	GTP	C8-N7-C5	3.06	108.82	102.99
41	D3	501	GTP	C2-N1-C6	-3.06	119.46	125.10
41	1W	501	GTP	C2-N1-C6	-3.06	119.46	125.10
41	C0	501	GTP	C8-N7-C5	3.06	108.82	102.99
41	B5	501	GTP	C2-N1-C6	-3.06	119.46	125.10
41	2E	501	GTP	C8-N7-C5	3.06	108.82	102.99
41	R8	501	GTP	C8-N7-C5	3.06	108.82	102.99
39	0E	501	GDP	C3'-C2'-C1'	3.06	105.58	100.98
41	K4	501	GTP	C2-N1-C6	-3.06	119.47	125.10
41	2U	501	GTP	C8-N7-C5	3.06	108.81	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	B2	501	GTP	C8-N7-C5	3.06	108.81	102.99
39	U4	502	GDP	C3'-C2'-C1'	3.06	105.58	100.98
41	T6	501	GTP	C8-N7-C5	3.06	108.81	102.99
41	1C	501	GTP	C8-N7-C5	3.06	108.81	102.99
41	E4	501	GTP	C2-N1-C6	-3.05	119.47	125.10
41	M7	501	GTP	C2-N1-C6	-3.05	119.47	125.10
41	3G	501	GTP	C8-N7-C5	3.05	108.81	102.99
41	M6	501	GTP	C8-N7-C5	3.05	108.80	102.99
41	2Q	501	GTP	C8-N7-C5	3.05	108.80	102.99
41	0Q	501	GTP	C8-N7-C5	3.05	108.80	102.99
41	M7	501	GTP	C8-N7-C5	3.05	108.80	102.99
41	A2	501	GTP	C2-N1-C6	-3.05	119.48	125.10
41	F0	501	GTP	C2-N1-C6	-3.05	119.48	125.10
41	1H	501	GTP	C3'-C2'-C1'	3.05	105.57	100.98
41	2G	501	GTP	C2-N1-C6	-3.05	119.48	125.10
39	Y0	502	GDP	C3'-C2'-C1'	3.05	105.57	100.98
41	1D	501	GTP	C2-N1-C6	-3.05	119.49	125.10
41	1S	501	GTP	C8-N7-C5	3.05	108.79	102.99
41	3D	501	GTP	C3'-C2'-C1'	3.05	105.56	100.98
41	D3	501	GTP	C8-N7-C5	3.04	108.79	102.99
41	X7	501	GTP	C8-N7-C5	3.04	108.79	102.99
41	O2	501	GTP	C2-N1-C6	-3.04	119.49	125.10
39	2C	502	GDP	C3'-C2'-C1'	3.04	105.56	100.98
41	U9	501	GTP	C2-N1-C6	-3.04	119.50	125.10
41	3S	501	GTP	C8-N7-C5	3.04	108.78	102.99
41	I4	501	GTP	C2-N1-C6	-3.04	119.50	125.10
41	U2	501	GTP	C2-N1-C6	-3.04	119.50	125.10
41	H3	501	GTP	C2-N1-C6	-3.04	119.50	125.10
41	X6	501	GTP	C8-N7-C5	3.04	108.78	102.99
39	R8	502	GDP	C3'-C2'-C1'	3.04	105.55	100.98
41	Q4	501	GTP	C2-N1-C6	-3.04	119.50	125.10
41	N0	501	GTP	C2-N1-C6	-3.04	119.50	125.10
41	L2	501	GTP	C8-N7-C5	3.04	108.78	102.99
41	V2	501	GTP	C2-N1-C6	-3.04	119.50	125.10
39	C2	501	GDP	C3'-C2'-C1'	3.04	105.55	100.98
41	B0	501	GTP	C8-N7-C5	3.04	108.77	102.99
41	K1	501	GTP	C2-N1-C6	-3.04	119.51	125.10
41	G7	501	GTP	C2-N1-C6	-3.03	119.51	125.10
41	V3	501	GTP	C8-N7-C5	3.03	108.77	102.99
41	K7	501	GTP	C8-N7-C5	3.03	108.77	102.99
41	0M	501	GTP	C8-N7-C5	3.03	108.77	102.99
41	J2	501	GTP	C8-N7-C5	3.03	108.77	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	Y6	501	GTP	C8-N7-C5	3.03	108.77	102.99
41	1Q	501	GTP	C8-N7-C5	3.03	108.77	102.99
41	0A	501	GTP	C2-N1-C6	-3.03	119.52	125.10
39	1M	501	GDP	C3'-C2'-C1'	3.03	105.54	100.98
41	N0	501	GTP	C8-N7-C5	3.03	108.76	102.99
41	P9	501	GTP	C8-N7-C5	3.03	108.76	102.99
41	C1	501	GTP	C3'-C2'-C1'	3.03	105.54	100.98
41	R6	501	GTP	C2-N1-C6	-3.03	119.52	125.10
41	M0	501	GTP	C8-N7-C5	3.03	108.76	102.99
41	0O	501	GTP	C8-N7-C5	3.03	108.76	102.99
41	N3	501	GTP	PA-O3A-PB	-3.03	122.44	132.83
41	W8	501	GTP	C8-N7-C5	3.03	108.75	102.99
41	F8	501	GTP	C2-N1-C6	-3.02	119.53	125.10
41	X4	501	GTP	C2-N1-C6	-3.02	119.53	125.10
41	R4	501	GTP	C8-N7-C5	3.02	108.75	102.99
41	I1	501	GTP	C2-N1-C6	-3.02	119.53	125.10
41	Z2	501	GTP	C2-N1-C6	-3.02	119.54	125.10
41	U4	501	GTP	C8-N7-C5	3.02	108.74	102.99
41	0O	501	GTP	C2-N1-C6	-3.02	119.54	125.10
41	D1	501	GTP	C8-N7-C5	3.02	108.74	102.99
41	2E	501	GTP	C2-N1-C6	-3.02	119.54	125.10
41	1H	501	GTP	C2-N1-C6	-3.02	119.54	125.10
41	0Y	501	GTP	C2-N1-C6	-3.02	119.54	125.10
39	3Q	501	GDP	C3'-C2'-C1'	3.02	105.52	100.98
41	Q4	501	GTP	C8-N7-C5	3.02	108.73	102.99
41	0Q	501	GTP	C2-N1-C6	-3.02	119.55	125.10
41	F8	501	GTP	C8-N7-C5	3.01	108.73	102.99
41	0I	501	GTP	C8-N7-C5	3.01	108.73	102.99
41	K6	501	GTP	C2-N1-C6	-3.01	119.55	125.10
41	I5	501	GTP	C2-N1-C6	-3.01	119.55	125.10
41	S5	501	GTP	C8-N7-C5	3.01	108.73	102.99
41	0S	501	GTP	C2-N1-C6	-3.01	119.55	125.10
41	P8	501	GTP	C2-N1-C6	-3.01	119.55	125.10
41	0C	501	GTP	C2-N1-C6	-3.01	119.55	125.10
41	H8	501	GTP	C2-N1-C6	-3.01	119.56	125.10
41	S0	501	GTP	C2-N1-C6	-3.01	119.56	125.10
39	3K	503	GDP	C3'-C2'-C1'	3.01	105.51	100.98
41	V2	501	GTP	C8-N7-C5	3.01	108.72	102.99
41	H6	501	GTP	C2-N1-C6	-3.01	119.56	125.10
41	J4	501	GTP	C8-N7-C5	3.01	108.72	102.99
41	T8	501	GTP	C8-N7-C5	3.01	108.72	102.99
41	1T	501	GTP	C8-N7-C5	3.00	108.71	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	J6	501	GTP	C8-N7-C5	3.00	108.71	102.99
41	U4	501	GTP	C2-N1-C6	-3.00	119.57	125.10
41	G1	501	GTP	C8-N7-C5	3.00	108.70	102.99
39	H6	502	GDP	C3'-C2'-C1'	3.00	105.49	100.98
39	U6	502	GDP	C3'-C2'-C1'	3.00	105.49	100.98
41	P8	501	GTP	C8-N7-C5	3.00	108.70	102.99
41	1L	501	GTP	C8-N7-C5	3.00	108.70	102.99
41	1H	501	GTP	C8-N7-C5	3.00	108.70	102.99
41	3P	501	GTP	C8-N7-C5	3.00	108.70	102.99
41	0F	501	GTP	C2-N1-C6	-3.00	119.58	125.10
39	B3	501	GDP	C3'-C2'-C1'	3.00	105.49	100.98
41	F3	501	GTP	C8-N7-C5	3.00	108.70	102.99
41	C5	501	GTP	C2-N1-C6	-2.99	119.58	125.10
41	U6	501	GTP	C2-N1-C6	-2.99	119.58	125.10
41	B0	501	GTP	C3'-C2'-C1'	2.99	105.49	100.98
41	S8	501	GTP	C8-N7-C5	2.99	108.69	102.99
41	M4	501	GTP	C8-N7-C5	2.99	108.69	102.99
41	3T	501	GTP	C3'-C2'-C1'	2.99	105.48	100.98
41	3	501	GTP	C8-N7-C5	2.99	108.69	102.99
41	Q6	501	GTP	C8-N7-C5	2.99	108.69	102.99
41	U7	501	GTP	C2-N1-C6	-2.99	119.59	125.10
41	3A	501	GTP	C8-N7-C5	2.99	108.69	102.99
39	I8	502	GDP	C3'-C2'-C1'	2.99	105.48	100.98
41	G7	501	GTP	C8-N7-C5	2.99	108.69	102.99
41	O2	501	GTP	C8-N7-C5	2.99	108.69	102.99
41	Q2	501	GTP	C8-N7-C5	2.99	108.69	102.99
41	D7	501	GTP	C3'-C2'-C1'	2.99	105.48	100.98
41	L7	501	GTP	PA-O3A-PB	-2.99	122.57	132.83
41	K9	501	GTP	C8-N7-C5	2.99	108.68	102.99
39	K4	502	GDP	C3'-C2'-C1'	2.99	105.48	100.98
39	W0	502	GDP	C3'-C2'-C1'	2.98	105.47	100.98
41	F5	501	GTP	C2-N1-C6	-2.98	119.60	125.10
41	8	501	GTP	C8-N7-C5	2.98	108.67	102.99
41	N3	501	GTP	C8-N7-C5	2.98	108.67	102.99
41	Z7	501	GTP	C2-N1-C6	-2.98	119.61	125.10
41	0K	501	GTP	C8-N7-C5	2.98	108.67	102.99
41	P6	501	GTP	C8-N7-C5	2.98	108.67	102.99
39	T0	501	GDP	C3'-C2'-C1'	2.98	105.46	100.98
41	B7	501	GTP	C2-N1-C6	-2.98	119.62	125.10
41	W4	501	GTP	C3'-C2'-C1'	2.97	105.46	100.98
41	Y6	501	GTP	C2-N1-C6	-2.97	119.62	125.10
41	Y1	501	GTP	C8-N7-C5	2.97	108.66	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	1D	501	GTP	C8-N7-C5	2.97	108.66	102.99
41	S0	501	GTP	C8-N7-C5	2.97	108.66	102.99
41	P4	501	GTP	C8-N7-C5	2.97	108.65	102.99
41	0C	501	GTP	C8-N7-C5	2.97	108.65	102.99
41	Z3	501	GTP	C2-N1-C6	-2.97	119.62	125.10
41	D5	501	GTP	C8-N7-C5	2.97	108.65	102.99
39	0O	502	GDP	PA-O3A-PB	-2.97	122.63	132.83
41	0O	501	GTP	C2-N1-C6	-2.97	119.63	125.10
41	I1	501	GTP	C8-N7-C5	2.97	108.65	102.99
41	0V	501	GTP	C8-N7-C5	2.97	108.65	102.99
41	1W	501	GTP	C8-N7-C5	2.97	108.65	102.99
39	2A	502	GDP	C3'-C2'-C1'	2.97	105.45	100.98
41	S2	501	GTP	C2-N1-C6	-2.97	119.63	125.10
41	B5	501	GTP	C8-N7-C5	2.97	108.64	102.99
41	X6	501	GTP	C2-N1-C6	-2.97	119.63	125.10
41	G4	501	GTP	C8-N7-C5	2.97	108.64	102.99
41	1G	501	GTP	C8-N7-C5	2.97	108.64	102.99
41	K4	501	GTP	C8-N7-C5	2.97	108.64	102.99
41	I0	501	GTP	C2-N1-C6	-2.97	119.64	125.10
41	1X	501	GTP	C3'-C2'-C1'	2.97	105.44	100.98
41	B2	501	GTP	C2-N1-C6	-2.97	119.64	125.10
41	U6	501	GTP	C8-N7-C5	2.96	108.64	102.99
41	H8	501	GTP	C8-N7-C5	2.96	108.64	102.99
41	0V	501	GTP	C2-N1-C6	-2.96	119.64	125.10
39	X6	502	GDP	C3'-C2'-C1'	2.96	105.44	100.98
41	4	501	GTP	C8-N7-C5	2.96	108.63	102.99
41	A4	501	GTP	C8-N7-C5	2.96	108.63	102.99
41	T4	501	GTP	C8-N7-C5	2.96	108.63	102.99
41	1A	501	GTP	C2-N1-C6	-2.96	119.65	125.10
41	U2	501	GTP	C8-N7-C5	2.96	108.63	102.99
41	G9	501	GTP	C8-N7-C5	2.96	108.63	102.99
39	U8	501	GDP	C3'-C2'-C1'	2.96	105.43	100.98
41	Y0	501	GTP	C2-N1-C6	-2.96	119.65	125.10
41	A2	501	GTP	C8-N7-C5	2.96	108.62	102.99
41	K1	501	GTP	C8-N7-C5	2.96	108.62	102.99
41	2S	501	GTP	C8-N7-C5	2.96	108.62	102.99
41	0F	501	GTP	C8-N7-C5	2.95	108.62	102.99
41	3T	501	GTP	C8-N7-C5	2.95	108.61	102.99
39	3A	502	GDP	C3'-C2'-C1'	2.95	105.42	100.98
41	G5	501	GTP	C2-N1-C6	-2.95	119.67	125.10
41	O0	501	GTP	C8-N7-C5	2.95	108.61	102.99
41	R0	501	GTP	C8-N7-C5	2.95	108.61	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	R2	501	GTP	C8-N7-C5	2.95	108.60	102.99
41	K9	501	GTP	C2-N1-C6	-2.94	119.67	125.10
41	1N	501	GTP	C8-N7-C5	2.94	108.60	102.99
41	7	501	GTP	C8-N7-C5	2.94	108.60	102.99
41	H3	501	GTP	C8-N7-C5	2.94	108.60	102.99
41	D7	501	GTP	C8-N7-C5	2.94	108.60	102.99
39	J2	502	GDP	C3'-C2'-C1'	2.94	105.41	100.98
39	V8	502	GDP	C3'-C2'-C1'	2.94	105.41	100.98
41	Y0	501	GTP	C8-N7-C5	2.94	108.59	102.99
41	Y4	501	GTP	C8-N7-C5	2.94	108.59	102.99
41	0Y	501	GTP	C8-N7-C5	2.94	108.58	102.99
41	I0	501	GTP	C8-N7-C5	2.94	108.58	102.99
41	8	501	GTP	C3'-C2'-C1'	2.93	105.39	100.98
41	X7	501	GTP	C2-N1-C6	-2.93	119.70	125.10
39	U2	502	GDP	C3'-C2'-C1'	2.92	105.38	100.98
41	I4	501	GTP	C8-N7-C5	2.92	108.56	102.99
41	N8	501	GTP	C8-N7-C5	2.92	108.56	102.99
41	G5	501	GTP	C8-N7-C5	2.92	108.55	102.99
41	I5	501	GTP	C8-N7-C5	2.92	108.55	102.99
39	M0	502	GDP	C3'-C2'-C1'	2.92	105.37	100.98
41	S2	501	GTP	C8-N7-C5	2.92	108.54	102.99
41	N3	501	GTP	C3'-C2'-C1'	2.92	105.37	100.98
41	N1	501	GTP	C8-N7-C5	2.91	108.54	102.99
41	1A	501	GTP	C8-N7-C5	2.91	108.54	102.99
41	F5	501	GTP	C3'-C2'-C1'	2.91	105.36	100.98
41	H6	501	GTP	C3'-C2'-C1'	2.91	105.36	100.98
41	1G	501	GTP	C2-N1-C6	-2.91	119.74	125.10
41	G9	501	GTP	C2-N1-C6	-2.91	119.74	125.10
39	M6	502	GDP	C3'-C2'-C1'	2.91	105.36	100.98
41	H6	501	GTP	C8-N7-C5	2.91	108.53	102.99
41	Y1	501	GTP	C2-N1-C6	-2.91	119.75	125.10
41	G4	501	GTP	C2-N1-C6	-2.91	119.75	125.10
39	Y2	501	GDP	C3'-C2'-C1'	2.90	105.35	100.98
41	S9	501	GTP	O4'-C1'-C2'	-2.90	102.69	106.93
41	G0	501	GTP	C2-N1-C6	-2.90	119.76	125.10
39	2U	502	GDP	C3'-C2'-C1'	2.90	105.34	100.98
39	W6	501	GDP	C3'-C2'-C1'	2.90	105.34	100.98
41	U7	501	GTP	C8-N7-C5	2.90	108.51	102.99
41	0K	501	GTP	C2-N1-C6	-2.89	119.77	125.10
41	E4	501	GTP	C8-N7-C5	2.89	108.50	102.99
41	Z2	501	GTP	C8-N7-C5	2.89	108.50	102.99
39	M2	502	GDP	C3'-C2'-C1'	2.89	105.33	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	1E	501	GDP	C3'-C2'-C1'	2.89	105.33	100.98
41	2N	501	GTP	C3'-C2'-C1'	2.89	105.33	100.98
41	I5	501	GTP	C3'-C2'-C1'	2.89	105.32	100.98
41	C0	501	GTP	C3'-C2'-C1'	2.88	105.31	100.98
41	U9	501	GTP	C8-N7-C5	2.88	108.47	102.99
41	L7	501	GTP	C8-N7-C5	2.87	108.46	102.99
41	1C	501	GTP	C2-N1-C6	-2.87	119.81	125.10
41	I8	501	GTP	C3'-C2'-C1'	2.87	105.30	100.98
41	U6	501	GTP	C3'-C2'-C1'	2.87	105.30	100.98
41	F0	501	GTP	C8-N7-C5	2.87	108.45	102.99
41	G9	501	GTP	C3'-C2'-C1'	2.87	105.29	100.98
41	U4	501	GTP	C3'-C2'-C1'	2.87	105.29	100.98
41	0I	501	GTP	C2-N1-C6	-2.87	119.82	125.10
39	Y4	502	GDP	C3'-C2'-C1'	2.86	105.29	100.98
41	H2	501	GTP	C8-N7-C5	2.86	108.44	102.99
41	E6	501	GTP	C8-N7-C5	2.86	108.44	102.99
41	F5	501	GTP	C8-N7-C5	2.86	108.44	102.99
41	7	501	GTP	C3'-C2'-C1'	2.86	105.28	100.98
41	J8	501	GTP	C3'-C2'-C1'	2.86	105.28	100.98
41	1T	501	GTP	C3'-C2'-C1'	2.86	105.28	100.98
41	M0	501	GTP	C3'-C2'-C1'	2.85	105.27	100.98
41	Z0	501	GTP	C2-N1-C6	-2.85	119.86	125.10
41	M4	501	GTP	C3'-C2'-C1'	2.85	105.26	100.98
41	A4	501	GTP	C2-N1-C6	-2.85	119.86	125.10
39	J0	502	GDP	C3'-C2'-C1'	2.85	105.26	100.98
41	1D	501	GTP	C3'-C2'-C1'	2.85	105.26	100.98
41	N6	501	GTP	C8-N7-C5	2.84	108.41	102.99
39	2Y	502	GDP	C3'-C2'-C1'	2.84	105.26	100.98
41	K4	501	GTP	C3'-C2'-C1'	2.84	105.26	100.98
41	1W	501	GTP	C3'-C2'-C1'	2.84	105.25	100.98
41	E1	501	GTP	C8-N7-C5	2.84	108.40	102.99
41	A1	501	GTP	C3'-C2'-C1'	2.84	105.25	100.98
39	J6	502	GDP	C3'-C2'-C1'	2.83	105.25	100.98
41	N3	501	GTP	C2-N1-C6	-2.83	119.89	125.10
41	W2	501	GTP	C3'-C2'-C1'	2.83	105.23	100.98
39	L0	501	GDP	C3'-C2'-C1'	2.82	105.23	100.98
41	Z7	501	GTP	C8-N7-C5	2.82	108.37	102.99
39	N2	501	GDP	C3'-C2'-C1'	2.82	105.23	100.98
41	Z0	501	GTP	C8-N7-C5	2.82	108.36	102.99
39	K8	501	GDP	C3'-C2'-C1'	2.82	105.22	100.98
41	0Y	501	GTP	C3'-C2'-C1'	2.82	105.22	100.98
41	A9	501	GTP	C3'-C2'-C1'	2.81	105.21	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	3	501	GTP	C3'-C2'-C1'	2.81	105.21	100.98
41	I4	501	GTP	C3'-C2'-C1'	2.81	105.21	100.98
41	F1	501	GTP	C8-N7-C5	2.81	108.34	102.99
41	0M	501	GTP	C2-N1-C6	-2.81	119.93	125.10
41	E8	501	GTP	C8-N7-C5	2.81	108.33	102.99
41	2I	501	GTP	C3'-C2'-C1'	2.81	105.20	100.98
41	0A	501	GTP	C8-N7-C5	2.80	108.32	102.99
41	F3	501	GTP	C3'-C2'-C1'	2.79	105.17	100.98
39	A9	502	GDP	C3'-C2'-C1'	2.79	105.17	100.98
41	A2	501	GTP	C3'-C2'-C1'	2.78	105.17	100.98
39	I2	501	GDP	C3'-C2'-C1'	2.78	105.16	100.98
41	V8	501	GTP	C3'-C2'-C1'	2.78	105.16	100.98
39	0C	502	GDP	C3'-C2'-C1'	2.77	105.16	100.98
39	F2	501	GDP	C3'-C2'-C1'	2.77	105.15	100.98
39	1A	503	GDP	C3'-C2'-C1'	2.77	105.15	100.98
39	T8	502	GDP	C3'-C2'-C1'	2.77	105.15	100.98
41	0V	501	GTP	C3'-C2'-C1'	2.77	105.15	100.98
41	Z3	501	GTP	C8-N7-C5	2.77	108.27	102.99
41	M7	501	GTP	C3'-C2'-C1'	2.77	105.14	100.98
41	J0	501	GTP	C3'-C2'-C1'	2.77	105.14	100.98
41	Z6	501	GTP	C8-N7-C5	2.76	108.25	102.99
39	1C	502	GDP	C3'-C2'-C1'	2.76	105.14	100.98
41	H2	501	GTP	C3'-C2'-C1'	2.76	105.13	100.98
41	U7	501	GTP	C3'-C2'-C1'	2.75	105.12	100.98
39	G0	502	GDP	C3'-C2'-C1'	2.75	105.11	100.98
39	0Q	502	GDP	C3'-C2'-C1'	2.74	105.11	100.98
39	2Q	502	GDP	C5-C6-N1	2.74	118.79	113.95
41	Y4	501	GTP	C3'-C2'-C1'	2.73	105.09	100.98
41	1L	501	GTP	C3'-C2'-C1'	2.73	105.09	100.98
41	U9	501	GTP	C3'-C2'-C1'	2.73	105.08	100.98
41	0F	501	GTP	C3'-C2'-C1'	2.73	105.08	100.98
41	C5	501	GTP	C3'-C2'-C1'	2.73	105.08	100.98
41	W8	501	GTP	C3'-C2'-C1'	2.72	105.07	100.98
41	1G	501	GTP	C3'-C2'-C1'	2.71	105.06	100.98
41	D3	501	GTP	C3'-C2'-C1'	2.71	105.06	100.98
39	A1	502	GDP	C3'-C2'-C1'	2.71	105.06	100.98
39	S6	501	GDP	C3'-C2'-C1'	2.71	105.06	100.98
39	2K	502	GDP	C3'-C2'-C1'	2.71	105.06	100.98
41	H3	501	GTP	C3'-C2'-C1'	2.70	105.05	100.98
41	K7	501	GTP	C3'-C2'-C1'	2.70	105.05	100.98
41	3C	501	GTP	C3'-C2'-C1'	2.70	105.05	100.98
39	2W	502	GDP	C3'-C2'-C1'	2.70	105.04	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	3O	502	GDP	C3'-C2'-C1'	2.70	105.04	100.98
41	O9	501	GTP	C3'-C2'-C1'	2.70	105.04	100.98
41	B7	501	GTP	C3'-C2'-C1'	2.70	105.04	100.98
41	2K	501	GTP	C3'-C2'-C1'	2.69	105.03	100.98
41	W5	501	GTP	C3'-C2'-C1'	2.69	105.03	100.98
41	X4	501	GTP	C8-N7-C5	2.69	108.11	102.99
41	Z3	501	GTP	O6-C6-C5	-2.69	119.12	124.37
39	H8	503	GDP	C3'-C2'-C1'	2.68	105.02	100.98
41	Y6	501	GTP	C3'-C2'-C1'	2.68	105.02	100.98
39	C0	502	GDP	C3'-C2'-C1'	2.68	105.01	100.98
39	R4	502	GDP	C3'-C2'-C1'	2.68	105.01	100.98
41	C9	501	GTP	C3'-C2'-C1'	2.67	105.00	100.98
41	K0	501	GTP	C3'-C2'-C1'	2.67	105.00	100.98
39	D8	501	GDP	C3'-C2'-C1'	2.66	104.98	100.98
41	D5	501	GTP	C3'-C2'-C1'	2.65	104.97	100.98
41	1S	501	GTP	C3'-C2'-C1'	2.65	104.96	100.98
41	3K	501	GTP	C3'-C2'-C1'	2.64	104.96	100.98
41	B2	501	GTP	C3'-C2'-C1'	2.64	104.96	100.98
39	3G	502	GDP	C3'-C2'-C1'	2.64	104.96	100.98
39	0M	502	GDP	C8-N7-C5	2.64	108.01	102.99
41	0A	501	GTP	O6-C6-C5	-2.64	119.22	124.37
39	2S	502	GDP	C5-C6-N1	2.64	118.61	113.95
39	0O	502	GDP	C8-N7-C5	2.64	108.01	102.99
39	L4	502	GDP	C3'-C2'-C1'	2.63	104.94	100.98
41	0S	501	GTP	C3'-C2'-C1'	2.63	104.94	100.98
41	Z0	501	GTP	O6-C6-C5	-2.63	119.24	124.37
39	0I	502	GDP	C3'-C2'-C1'	2.63	104.93	100.98
39	S4	501	GDP	C3'-C2'-C1'	2.62	104.92	100.98
39	R2	502	GDP	C3'-C2'-C1'	2.62	104.92	100.98
41	X0	501	GTP	PB-O3B-PG	-2.62	123.83	132.83
39	K0	502	GDP	C3'-C2'-C1'	2.62	104.92	100.98
41	3S	501	GTP	C3'-C2'-C1'	2.62	104.92	100.98
39	2W	502	GDP	C5-C6-N1	2.62	118.58	113.95
39	M8	501	GDP	C3'-C2'-C1'	2.61	104.92	100.98
39	J4	503	GDP	C3'-C2'-C1'	2.61	104.91	100.98
39	3C	502	GDP	C3'-C2'-C1'	2.61	104.91	100.98
41	B5	501	GTP	C3'-C2'-C1'	2.61	104.91	100.98
41	1N	501	GTP	C3'-C2'-C1'	2.61	104.91	100.98
39	3I	502	GDP	C5-C6-N1	2.61	118.56	113.95
41	2A	501	GTP	C3'-C2'-C1'	2.61	104.90	100.98
39	F2	501	GDP	C5-C6-N1	2.60	118.55	113.95
39	2U	502	GDP	C5-C6-N1	2.60	118.54	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	2L	501	GTP	C3'-C2'-C1'	2.60	104.89	100.98
41	Z7	501	GTP	O6-C6-C5	-2.59	119.31	124.37
39	R8	502	GDP	C5-C6-N1	2.59	118.52	113.95
39	Y8	501	GDP	C3'-C2'-C1'	2.58	104.86	100.98
39	S8	502	GDP	C3'-C2'-C1'	2.58	104.86	100.98
41	U2	501	GTP	C3'-C2'-C1'	2.58	104.86	100.98
41	3G	501	GTP	C3'-C2'-C1'	2.58	104.86	100.98
41	J6	501	GTP	C3'-C2'-C1'	2.57	104.85	100.98
41	V3	501	GTP	C3'-C2'-C1'	2.57	104.84	100.98
39	2E	502	GDP	C3'-C2'-C1'	2.57	104.84	100.98
39	J8	502	GDP	C3'-C2'-C1'	2.56	104.83	100.98
39	0K	502	GDP	C3'-C2'-C1'	2.56	104.83	100.98
41	O4	501	GTP	C3'-C2'-C1'	2.56	104.83	100.98
41	E4	501	GTP	C3'-C2'-C1'	2.55	104.82	100.98
39	3A	502	GDP	C5-C6-N1	2.55	118.45	113.95
39	Q6	502	GDP	C5-C6-N1	2.55	118.45	113.95
39	0A	503	GDP	C3'-C2'-C1'	2.55	104.81	100.98
39	T6	502	GDP	C5-C6-N1	2.55	118.45	113.95
41	3A	501	GTP	C3'-C2'-C1'	2.55	104.81	100.98
39	T4	502	GDP	C5-C6-N1	2.55	118.45	113.95
41	J2	501	GTP	C3'-C2'-C1'	2.54	104.81	100.98
41	L4	501	GTP	C3'-C2'-C1'	2.54	104.80	100.98
41	2U	501	GTP	C3'-C2'-C1'	2.53	104.79	100.98
39	1Q	502	GDP	C3'-C2'-C1'	2.53	104.78	100.98
39	0U	501	GDP	C5-C6-N1	2.53	118.42	113.95
39	R6	503	GDP	C5-C6-N1	2.53	118.41	113.95
39	R4	502	GDP	C5-C6-N1	2.53	118.41	113.95
41	2E	501	GTP	C3'-C2'-C1'	2.52	104.78	100.98
41	2Y	501	GTP	C3'-C2'-C1'	2.52	104.78	100.98
39	L0	501	GDP	C5-C6-N1	2.52	118.41	113.95
39	R0	502	GDP	C3'-C2'-C1'	2.52	104.78	100.98
39	S2	502	GDP	C5-C6-N1	2.52	118.40	113.95
41	Z6	501	GTP	O6-C6-C5	-2.52	119.45	124.37
41	4	501	GTP	C3'-C2'-C1'	2.52	104.77	100.98
39	L6	502	GDP	C5-C6-N1	2.51	118.39	113.95
41	R4	501	GTP	O6-C6-C5	-2.51	119.46	124.37
39	Q2	502	GDP	C3'-C2'-C1'	2.51	104.76	100.98
41	V3	501	GTP	O6-C6-C5	-2.51	119.47	124.37
41	1Q	501	GTP	O6-C6-C5	-2.51	119.47	124.37
39	X4	502	GDP	C3'-C2'-C1'	2.51	104.75	100.98
39	E0	501	GDP	C5-C6-N1	2.51	118.38	113.95
41	2S	501	GTP	C3'-C2'-C1'	2.51	104.75	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	P4	503	GDP	C5-C6-N1	2.50	118.37	113.95
39	Q0	501	GDP	C5-C6-N1	2.50	118.36	113.95
39	F6	501	GDP	C5-C6-N1	2.50	118.36	113.95
39	B8	501	GDP	C3'-C2'-C1'	2.49	104.73	100.98
39	O6	502	GDP	C8-N7-C5	2.49	107.74	102.99
41	M6	501	GTP	C3'-C2'-C1'	2.49	104.73	100.98
41	O6	501	GTP	C3'-C2'-C1'	2.49	104.73	100.98
39	G0	502	GDP	C5-C6-N1	2.49	118.35	113.95
39	2A	502	GDP	C5-C6-N1	2.49	118.35	113.95
39	3C	502	GDP	C5-C6-N1	2.49	118.35	113.95
39	S6	501	GDP	C5-C6-N1	2.49	118.35	113.95
41	2Q	501	GTP	O6-C6-C5	-2.49	119.52	124.37
39	G2	501	GDP	C5-C6-N1	2.48	118.34	113.95
39	3S	502	GDP	C3'-C2'-C1'	2.48	104.71	100.98
39	5	501	GDP	C5-C6-N1	2.48	118.33	113.95
39	F0	502	GDP	C5-C6-N1	2.48	118.33	113.95
39	2I	502	GDP	C5-C6-N1	2.48	118.33	113.95
39	O0	503	GDP	C5-C6-N1	2.47	118.32	113.95
41	2Q	501	GTP	C3'-C2'-C1'	2.47	104.70	100.98
39	Y6	502	GDP	C5-C6-N1	2.47	118.32	113.95
39	2G	502	GDP	C5-C6-N1	2.47	118.32	113.95
39	O4	502	GDP	C3'-C2'-C1'	2.46	104.69	100.98
39	S0	502	GDP	C5-C6-N1	2.46	118.30	113.95
39	D2	501	GDP	C5-C6-N1	2.46	118.30	113.95
39	O2	502	GDP	C8-N7-C5	2.46	107.67	102.99
39	1M	501	GDP	C5-C6-N1	2.46	118.29	113.95
39	9	501	GDP	C3'-C2'-C1'	2.46	104.68	100.98
39	H2	503	GDP	C5-C6-N1	2.46	118.29	113.95
39	Q2	502	GDP	C5-C6-N1	2.46	118.29	113.95
41	M6	501	GTP	O6-C6-C5	-2.45	119.58	124.37
39	0A	503	GDP	C8-N7-C5	2.45	107.67	102.99
39	P6	503	GDP	C5-C6-N1	2.45	118.28	113.95
39	3A	502	GDP	C8-N7-C5	2.45	107.66	102.99
39	0W	502	GDP	C8-N7-C5	2.45	107.66	102.99
39	0W	502	GDP	C5-C6-N1	2.45	118.28	113.95
39	2C	502	GDP	C5-C6-N1	2.45	118.28	113.95
39	2C	502	GDP	C8-N7-C5	2.45	107.66	102.99
39	2G	502	GDP	C8-N7-C5	2.45	107.66	102.99
39	O8	503	GDP	C8-N7-C5	2.45	107.66	102.99
41	1Q	501	GTP	C3'-C2'-C1'	2.45	104.67	100.98
39	2Y	502	GDP	C5-C6-N1	2.45	118.28	113.95
41	N1	501	GTP	O6-C6-C5	-2.45	119.59	124.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	Q8	501	GDP	C5-C6-N1	2.45	118.27	113.95
39	2I	502	GDP	C8-N7-C5	2.45	107.65	102.99
39	V6	501	GDP	C5-C6-N1	2.44	118.27	113.95
39	2E	502	GDP	C8-N7-C5	2.44	107.64	102.99
41	V2	501	GTP	C3'-C2'-C1'	2.44	104.65	100.98
39	2K	502	GDP	C8-N7-C5	2.44	107.64	102.99
39	B8	501	GDP	C5-C6-N1	2.44	118.26	113.95
39	C2	501	GDP	C5-C6-N1	2.44	118.26	113.95
39	K0	502	GDP	C5-C6-N1	2.44	118.26	113.95
39	V4	501	GDP	C5-C6-N1	2.44	118.26	113.95
41	G5	501	GTP	O6-C6-C5	-2.44	119.61	124.37
39	B5	502	GDP	C8-N7-C5	2.44	107.63	102.99
39	P8	502	GDP	C5-C6-N1	2.44	118.25	113.95
39	U4	502	GDP	C5-C6-N1	2.44	118.25	113.95
41	0Q	501	GTP	C3'-C2'-C1'	2.44	104.65	100.98
39	T0	501	GDP	C5-C6-N1	2.43	118.25	113.95
41	I0	501	GTP	O6-C6-C5	-2.43	119.62	124.37
39	1K	501	GDP	C5-C6-N1	2.43	118.25	113.95
39	K8	501	GDP	C5-C6-N1	2.43	118.25	113.95
39	U8	501	GDP	C5-C6-N1	2.43	118.25	113.95
39	V0	501	GDP	C5-C6-N1	2.43	118.24	113.95
39	3K	503	GDP	C5-C6-N1	2.43	118.24	113.95
39	U6	502	GDP	C5-C6-N1	2.43	118.24	113.95
41	G4	501	GTP	O6-C6-C5	-2.43	119.63	124.37
39	L4	502	GDP	C5-C6-N1	2.43	118.24	113.95
39	Q4	502	GDP	C5-C6-N1	2.43	118.24	113.95
39	V8	502	GDP	C5-C6-N1	2.43	118.24	113.95
39	2E	502	GDP	C5-C6-N1	2.43	118.24	113.95
39	U8	501	GDP	C8-N7-C5	2.43	107.62	102.99
41	0M	501	GTP	O6-C6-C5	-2.43	119.63	124.37
39	J6	502	GDP	C5-C6-N1	2.43	118.24	113.95
39	J8	502	GDP	C5-C6-N1	2.43	118.24	113.95
39	1G	502	GDP	C5-C6-N1	2.43	118.24	113.95
41	U7	501	GTP	O6-C6-C5	-2.43	119.63	124.37
39	E2	501	GDP	C5-C6-N1	2.43	118.24	113.95
39	G8	501	GDP	C5-C6-N1	2.43	118.24	113.95
39	A9	502	GDP	C5-C6-N1	2.42	118.23	113.95
41	H8	501	GTP	O6-C6-C5	-2.42	119.64	124.37
39	H4	501	GDP	C5-C6-N1	2.42	118.23	113.95
39	V2	503	GDP	C5-C6-N1	2.42	118.23	113.95
41	I1	501	GTP	C3'-C2'-C1'	2.42	104.63	100.98
39	3O	502	GDP	C5-C6-N1	2.42	118.23	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	E6	502	GDP	C8-N7-C5	2.42	107.60	102.99
41	F0	501	GTP	O6-C6-C5	-2.42	119.64	124.37
39	K6	502	GDP	C5-C6-N1	2.42	118.23	113.95
39	2K	502	GDP	C5-C6-N1	2.42	118.23	113.95
41	I1	501	GTP	O6-C6-C5	-2.42	119.64	124.37
39	Y2	501	GDP	C5-C6-N1	2.42	118.23	113.95
39	1A	503	GDP	C5-C6-N1	2.42	118.22	113.95
39	A1	502	GDP	C5-C6-N1	2.42	118.22	113.95
41	2S	501	GTP	O6-C6-C5	-2.42	119.65	124.37
39	H8	503	GDP	C5-C6-N1	2.42	118.22	113.95
39	R2	502	GDP	C5-C6-N1	2.41	118.22	113.95
39	X8	501	GDP	C3'-C2'-C1'	2.41	104.61	100.98
39	2	501	GDP	C5-C6-N1	2.41	118.21	113.95
39	1E	501	GDP	C5-C6-N1	2.41	118.21	113.95
39	3M	502	GDP	C5-C6-N1	2.41	118.21	113.95
41	0C	501	GTP	C3'-C2'-C1'	2.41	104.61	100.98
39	F8	502	GDP	C5-C6-N1	2.41	118.21	113.95
39	O2	502	GDP	C5-C6-N1	2.41	118.21	113.95
39	V6	501	GDP	C8-N7-C5	2.41	107.58	102.99
39	X8	501	GDP	C5-C6-N1	2.41	118.21	113.95
41	R2	501	GTP	O6-C6-C5	-2.41	119.66	124.37
39	0Q	502	GDP	C5-C6-N1	2.41	118.21	113.95
39	9	501	GDP	C8-N7-C5	2.41	107.58	102.99
39	L2	502	GDP	C8-N7-C5	2.41	107.58	102.99
39	2M	501	GDP	C8-N7-C5	2.41	107.58	102.99
41	8	501	GTP	O6-C6-C5	-2.41	119.67	124.37
39	T2	502	GDP	C5-C6-N1	2.41	118.20	113.95
41	K6	501	GTP	C3'-C2'-C1'	2.41	104.60	100.98
41	X7	501	GTP	PA-O3A-PB	-2.41	124.57	132.83
39	A3	501	GDP	C8-N7-C5	2.41	107.57	102.99
39	1A	503	GDP	C8-N7-C5	2.40	107.57	102.99
39	E4	502	GDP	C5-C6-N1	2.40	118.20	113.95
41	H6	501	GTP	O6-C6-C5	-2.40	119.68	124.37
41	P6	501	GTP	O6-C6-C5	-2.40	119.68	124.37
41	R8	501	GTP	O6-C6-C5	-2.40	119.68	124.37
39	1U	501	GDP	C5-C6-N1	2.40	118.20	113.95
41	I4	501	GTP	O6-C6-C5	-2.40	119.68	124.37
41	0I	501	GTP	C3'-C2'-C1'	2.40	104.59	100.98
39	Y4	502	GDP	C5-C6-N1	2.40	118.19	113.95
39	S8	502	GDP	C5-C6-N1	2.40	118.19	113.95
41	T6	501	GTP	O6-C6-C5	-2.40	119.68	124.37
41	L7	501	GTP	O6-C6-C5	-2.40	119.68	124.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	M2	501	GTP	C3'-C2'-C1'	2.40	104.59	100.98
39	Y0	502	GDP	C5-C6-N1	2.40	118.19	113.95
39	1E	501	GDP	C8-N7-C5	2.40	107.56	102.99
41	R0	501	GTP	O6-C6-C5	-2.40	119.69	124.37
41	O8	501	GTP	C3'-C2'-C1'	2.40	104.59	100.98
41	G1	501	GTP	O6-C6-C5	-2.40	119.69	124.37
39	J0	502	GDP	C5-C6-N1	2.40	118.18	113.95
39	U6	502	GDP	C8-N7-C5	2.40	107.56	102.99
41	P4	501	GTP	O6-C6-C5	-2.40	119.69	124.37
39	S4	501	GDP	C5-C6-N1	2.40	118.18	113.95
39	A7	501	GDP	C5-C6-N1	2.40	118.18	113.95
39	M4	502	GDP	C3'-C2'-C1'	2.40	104.58	100.98
41	1A	501	GTP	O6-C6-C5	-2.39	119.70	124.37
39	H6	502	GDP	C5-C6-N1	2.39	118.18	113.95
41	Y1	501	GTP	C3'-C2'-C1'	2.39	104.58	100.98
39	3G	502	GDP	C5-C6-N1	2.39	118.17	113.95
41	0K	501	GTP	O6-C6-C5	-2.39	119.70	124.37
39	3	502	GDP	C5-C6-N1	2.39	118.17	113.95
39	B1	501	GDP	C5-C6-N1	2.39	118.17	113.95
39	W0	502	GDP	C5-C6-N1	2.39	118.17	113.95
41	N0	501	GTP	C3'-C2'-C1'	2.39	104.57	100.98
39	W4	502	GDP	C8-N7-C5	2.39	107.54	102.99
39	I2	501	GDP	C5-C6-N1	2.39	118.17	113.95
39	0Y	502	GDP	C5-C6-N1	2.39	118.17	113.95
39	V4	501	GDP	C8-N7-C5	2.39	107.54	102.99
39	V2	503	GDP	C8-N7-C5	2.39	107.54	102.99
39	I0	502	GDP	C5-C6-N1	2.38	118.16	113.95
39	I4	502	GDP	C5-C6-N1	2.38	118.16	113.95
39	A3	501	GDP	C5-C6-N1	2.38	118.16	113.95
41	P8	501	GTP	O6-C6-C5	-2.38	119.72	124.37
39	2A	502	GDP	C8-N7-C5	2.38	107.53	102.99
41	F1	501	GTP	O6-C6-C5	-2.38	119.73	124.37
39	C6	501	GDP	C5-C6-N1	2.38	118.15	113.95
39	J4	503	GDP	C5-C6-N1	2.38	118.15	113.95
41	Q4	501	GTP	O6-C6-C5	-2.38	119.73	124.37
41	3A	501	GTP	O6-C6-C5	-2.38	119.73	124.37
39	T8	502	GDP	C5-C6-N1	2.38	118.15	113.95
41	S0	501	GTP	O6-C6-C5	-2.38	119.73	124.37
39	M0	502	GDP	C5-C6-N1	2.38	118.15	113.95
39	M6	502	GDP	C5-C6-N1	2.38	118.15	113.95
39	B3	501	GDP	C5-C6-N1	2.38	118.15	113.95
39	D8	501	GDP	C8-N7-C5	2.37	107.51	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	J8	502	GDP	C8-N7-C5	2.37	107.51	102.99
39	7	502	GDP	C8-N7-C5	2.37	107.51	102.99
39	2M	501	GDP	C5-C6-N1	2.37	118.14	113.95
41	E1	501	GTP	O6-C6-C5	-2.37	119.74	124.37
41	1S	501	GTP	O6-C6-C5	-2.37	119.74	124.37
39	F8	502	GDP	C8-N7-C5	2.37	107.51	102.99
39	D0	501	GDP	C5-C6-N1	2.37	118.14	113.95
39	W6	501	GDP	C8-N7-C5	2.37	107.51	102.99
41	3	501	GTP	O6-C6-C5	-2.37	119.74	124.37
39	0E	501	GDP	C5-C6-N1	2.37	118.14	113.95
39	N2	501	GDP	C8-N7-C5	2.37	107.50	102.99
39	N2	501	GDP	C5-C6-N1	2.37	118.14	113.95
39	G2	501	GDP	C8-N7-C5	2.37	107.50	102.99
39	1C	502	GDP	C5-C6-N1	2.37	118.13	113.95
41	Q2	501	GTP	O6-C6-C5	-2.37	119.75	124.37
39	2Y	502	GDP	C8-N7-C5	2.37	107.50	102.99
39	E6	502	GDP	C5-C6-N1	2.37	118.13	113.95
39	K4	502	GDP	C5-C6-N1	2.37	118.13	113.95
39	W2	503	GDP	C8-N7-C5	2.37	107.50	102.99
39	P8	502	GDP	C8-N7-C5	2.37	107.50	102.99
41	K9	501	GTP	O6-C6-C5	-2.37	119.75	124.37
41	S5	501	GTP	O6-C6-C5	-2.36	119.75	124.37
39	U2	502	GDP	C5-C6-N1	2.36	118.13	113.95
39	K6	502	GDP	C8-N7-C5	2.36	107.49	102.99
39	O6	502	GDP	C5-C6-N1	2.36	118.13	113.95
39	H8	503	GDP	C8-N7-C5	2.36	107.49	102.99
39	3Q	501	GDP	C5-C6-N1	2.36	118.12	113.95
41	P9	501	GTP	O6-C6-C5	-2.36	119.76	124.37
39	J2	502	GDP	C5-C6-N1	2.36	118.12	113.95
39	2W	502	GDP	C8-N7-C5	2.36	107.49	102.99
39	O2	502	GDP	C3'-C2'-C1'	2.36	104.53	100.98
41	G7	501	GTP	O6-C6-C5	-2.36	119.76	124.37
41	H2	501	GTP	O6-C6-C5	-2.36	119.76	124.37
39	G8	501	GDP	C8-N7-C5	2.36	107.48	102.99
39	N6	503	GDP	C8-N7-C5	2.36	107.48	102.99
39	O8	503	GDP	C3'-C2'-C1'	2.36	104.53	100.98
39	D8	501	GDP	C5-C6-N1	2.36	118.11	113.95
41	N1	501	GTP	C3'-C2'-C1'	2.36	104.53	100.98
39	O4	502	GDP	C8-N7-C5	2.36	107.48	102.99
39	I8	502	GDP	C5-C6-N1	2.36	118.11	113.95
41	T8	501	GTP	O6-C6-C5	-2.35	119.77	124.37
39	T2	502	GDP	C8-N7-C5	2.35	107.47	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	X2	501	GDP	C3'-C2'-C1'	2.35	104.52	100.98
41	Y0	501	GTP	C3'-C2'-C1'	2.35	104.52	100.98
39	2	501	GDP	C8-N7-C5	2.35	107.47	102.99
39	1W	502	GDP	C5-C6-N1	2.35	118.11	113.95
39	0G	501	GDP	C3'-C2'-C1'	2.35	104.52	100.98
39	C0	502	GDP	C5-C6-N1	2.35	118.11	113.95
39	5	501	GDP	C8-N7-C5	2.35	107.47	102.99
39	T6	502	GDP	C3'-C2'-C1'	2.35	104.52	100.98
39	D6	501	GDP	C5-C6-N1	2.35	118.10	113.95
39	C0	502	GDP	C8-N7-C5	2.35	107.47	102.99
41	T4	501	GTP	O6-C6-C5	-2.35	119.78	124.37
39	V8	502	GDP	C8-N7-C5	2.35	107.46	102.99
39	I8	502	GDP	C8-N7-C5	2.35	107.46	102.99
41	1C	501	GTP	C3'-C2'-C1'	2.35	104.51	100.98
39	G4	502	GDP	C5-C6-N1	2.35	118.10	113.95
39	O8	503	GDP	C5-C6-N1	2.35	118.10	113.95
39	S8	502	GDP	C8-N7-C5	2.35	107.46	102.99
39	B8	501	GDP	C8-N7-C5	2.35	107.46	102.99
39	Q0	501	GDP	C8-N7-C5	2.35	107.46	102.99
39	2S	502	GDP	C8-N7-C5	2.35	107.46	102.99
39	H4	501	GDP	C8-N7-C5	2.34	107.45	102.99
39	1W	502	GDP	C8-N7-C5	2.34	107.45	102.99
39	I0	502	GDP	C8-N7-C5	2.34	107.45	102.99
39	L0	501	GDP	C8-N7-C5	2.34	107.45	102.99
39	3C	502	GDP	C8-N7-C5	2.34	107.45	102.99
41	7	501	GTP	O6-C6-C5	-2.34	119.80	124.37
39	2G	502	GDP	C3'-C2'-C1'	2.34	104.50	100.98
39	C6	501	GDP	C8-N7-C5	2.34	107.44	102.99
39	R2	502	GDP	C8-N7-C5	2.34	107.44	102.99
39	K8	501	GDP	C8-N7-C5	2.34	107.44	102.99
39	C8	502	GDP	C3'-C2'-C1'	2.34	104.50	100.98
39	R8	502	GDP	C8-N7-C5	2.34	107.44	102.99
39	0S	502	GDP	C8-N7-C5	2.34	107.44	102.99
39	L2	502	GDP	C5-C6-N1	2.34	118.08	113.95
39	P4	503	GDP	C8-N7-C5	2.34	107.44	102.99
41	N0	501	GTP	O6-C6-C5	-2.34	119.81	124.37
39	3S	502	GDP	C5-C6-N1	2.34	118.08	113.95
41	V2	501	GTP	O6-C6-C5	-2.33	119.81	124.37
39	G6	501	GDP	C8-N7-C5	2.33	107.44	102.99
39	0I	502	GDP	C8-N7-C5	2.33	107.44	102.99
41	0C	501	GTP	O6-C6-C5	-2.33	119.81	124.37
39	H2	503	GDP	C8-N7-C5	2.33	107.44	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	R6	503	GDP	C8-N7-C5	2.33	107.44	102.99
39	B5	502	GDP	C5-C6-N1	2.33	118.07	113.95
39	V0	501	GDP	C8-N7-C5	2.33	107.44	102.99
39	3I	502	GDP	C8-N7-C5	2.33	107.44	102.99
39	O4	502	GDP	C5-C6-N1	2.33	118.07	113.95
39	X2	501	GDP	C5-C6-N1	2.33	118.07	113.95
41	S8	501	GTP	O6-C6-C5	-2.33	119.82	124.37
39	M8	501	GDP	C5-C6-N1	2.33	118.07	113.95
39	0M	502	GDP	C3'-C2'-C1'	2.33	104.49	100.98
39	1M	501	GDP	C8-N7-C5	2.33	107.43	102.99
39	R0	502	GDP	C5-C6-N1	2.33	118.07	113.95
41	0O	501	GTP	C3'-C2'-C1'	2.33	104.49	100.98
39	M6	502	GDP	C8-N7-C5	2.33	107.43	102.99
39	M8	501	GDP	C8-N7-C5	2.33	107.43	102.99
39	P6	503	GDP	C8-N7-C5	2.33	107.43	102.99
39	M0	502	GDP	C8-N7-C5	2.33	107.43	102.99
41	F5	501	GTP	O6-C6-C5	-2.33	119.82	124.37
39	W0	502	GDP	C8-N7-C5	2.33	107.43	102.99
39	E8	502	GDP	C5-C6-N1	2.33	118.06	113.95
39	A7	501	GDP	C8-N7-C5	2.33	107.43	102.99
39	J4	503	GDP	C8-N7-C5	2.33	107.42	102.99
39	C4	501	GDP	C8-N7-C5	2.33	107.42	102.99
41	G0	501	GTP	C3'-C2'-C1'	2.33	104.48	100.98
39	N0	502	GDP	C5-C6-N1	2.33	118.06	113.95
41	1A	501	GTP	C3'-C2'-C1'	2.33	104.48	100.98
39	A3	501	GDP	O3B-PB-O3A	2.32	112.43	104.64
39	1U	501	GDP	C8-N7-C5	2.32	107.42	102.99
39	9	501	GDP	C5-C6-N1	2.32	118.05	113.95
39	K0	502	GDP	C8-N7-C5	2.32	107.41	102.99
39	W8	503	GDP	C8-N7-C5	2.32	107.41	102.99
41	4	501	GTP	O6-C6-C5	-2.32	119.84	124.37
39	Y8	501	GDP	C5-C6-N1	2.32	118.05	113.95
39	K4	502	GDP	C8-N7-C5	2.32	107.41	102.99
39	3O	502	GDP	C8-N7-C5	2.32	107.41	102.99
39	X0	502	GDP	C8-N7-C5	2.32	107.41	102.99
39	2U	502	GDP	C8-N7-C5	2.32	107.41	102.99
41	S2	501	GTP	O6-C6-C5	-2.32	119.84	124.37
41	1W	501	GTP	O6-C6-C5	-2.32	119.84	124.37
41	Z7	501	GTP	C3'-C2'-C1'	2.32	104.47	100.98
39	B3	501	GDP	C8-N7-C5	2.32	107.41	102.99
41	Z2	501	GTP	O6-C6-C5	-2.32	119.84	124.37
39	X2	501	GDP	C8-N7-C5	2.32	107.41	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	Z8	501	GDP	C5-C6-N1	2.32	118.04	113.95
41	0O	501	GTP	O6-C6-C5	-2.32	119.85	124.37
39	7	502	GDP	C5-C6-N1	2.32	118.04	113.95
39	H6	502	GDP	C8-N7-C5	2.32	107.40	102.99
41	I0	501	GTP	C3'-C2'-C1'	2.32	104.46	100.98
41	A2	501	GTP	O6-C6-C5	-2.31	119.85	124.37
39	0I	502	GDP	C5-C6-N1	2.31	118.04	113.95
39	M2	502	GDP	C5-C6-N1	2.31	118.04	113.95
39	1G	502	GDP	C8-N7-C5	2.31	107.39	102.99
39	Y2	501	GDP	C8-N7-C5	2.31	107.39	102.99
39	1C	502	GDP	C8-N7-C5	2.31	107.39	102.99
39	J6	502	GDP	C8-N7-C5	2.31	107.39	102.99
39	0C	502	GDP	C5-C6-N1	2.31	118.03	113.95
39	R4	502	GDP	C8-N7-C5	2.31	107.39	102.99
41	2W	501	GTP	O6-C6-C5	-2.31	119.87	124.37
39	C2	501	GDP	C8-N7-C5	2.31	107.38	102.99
41	0Q	501	GTP	O6-C6-C5	-2.31	119.87	124.37
39	B1	501	GDP	C8-N7-C5	2.31	107.38	102.99
39	J0	502	GDP	C8-N7-C5	2.30	107.38	102.99
39	I2	501	GDP	C8-N7-C5	2.30	107.38	102.99
39	W2	503	GDP	C5-C6-N1	2.30	118.02	113.95
41	B5	501	GTP	O6-C6-C5	-2.30	119.87	124.37
39	1O	501	GDP	C8-N7-C5	2.30	107.38	102.99
39	G6	501	GDP	C5-C6-N1	2.30	118.02	113.95
39	R0	502	GDP	C8-N7-C5	2.30	107.38	102.99
39	X4	502	GDP	C5-C6-N1	2.30	118.02	113.95
39	X6	502	GDP	C5-C6-N1	2.30	118.02	113.95
39	Q8	501	GDP	C3'-C2'-C1'	2.30	104.44	100.98
41	C8	501	GTP	C3'-C2'-C1'	2.30	104.44	100.98
39	A1	502	GDP	C8-N7-C5	2.30	107.37	102.99
39	0U	501	GDP	C8-N7-C5	2.30	107.37	102.99
41	N8	501	GTP	O6-C6-C5	-2.30	119.89	124.37
39	Q8	501	GDP	C8-N7-C5	2.30	107.37	102.99
39	2S	502	GDP	C3'-C2'-C1'	2.30	104.43	100.98
39	X6	502	GDP	C8-N7-C5	2.29	107.36	102.99
39	0Q	502	GDP	C8-N7-C5	2.29	107.36	102.99
39	Y8	501	GDP	C8-N7-C5	2.29	107.36	102.99
39	E2	501	GDP	C3'-C2'-C1'	2.29	104.43	100.98
39	S0	502	GDP	C8-N7-C5	2.29	107.36	102.99
39	Y4	502	GDP	C8-N7-C5	2.29	107.36	102.99
39	W6	501	GDP	C5-C6-N1	2.29	118.00	113.95
41	J4	501	GTP	O6-C6-C5	-2.29	119.89	124.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	N0	502	GDP	C8-N7-C5	2.29	107.36	102.99
39	C8	502	GDP	C5-C6-N1	2.29	118.00	113.95
39	D2	501	GDP	C8-N7-C5	2.29	107.36	102.99
39	J2	502	GDP	C8-N7-C5	2.29	107.35	102.99
39	0C	502	GDP	C8-N7-C5	2.29	107.35	102.99
39	3M	502	GDP	C8-N7-C5	2.29	107.35	102.99
39	L4	502	GDP	C8-N7-C5	2.29	107.35	102.99
39	1S	502	GDP	C5-C6-N1	2.29	117.99	113.95
39	1Q	502	GDP	C5-C6-N1	2.29	117.99	113.95
39	U2	502	GDP	C8-N7-C5	2.29	107.35	102.99
41	0I	501	GTP	O6-C6-C5	-2.29	119.91	124.37
39	Q6	502	GDP	C8-N7-C5	2.29	107.34	102.99
39	1K	501	GDP	C8-N7-C5	2.29	107.34	102.99
39	Q2	502	GDP	C8-N7-C5	2.28	107.34	102.99
39	U4	502	GDP	C8-N7-C5	2.28	107.34	102.99
41	U6	501	GTP	O6-C6-C5	-2.28	119.91	124.37
41	1D	501	GTP	O6-C6-C5	-2.28	119.91	124.37
41	O0	501	GTP	C3'-C2'-C1'	2.28	104.42	100.98
41	M4	501	GTP	O6-C6-C5	-2.28	119.91	124.37
41	H3	501	GTP	O6-C6-C5	-2.28	119.92	124.37
39	G4	502	GDP	C8-N7-C5	2.28	107.34	102.99
39	N8	502	GDP	C5-C6-N1	2.28	117.98	113.95
41	X0	501	GTP	C3'-C2'-C1'	2.28	104.41	100.98
39	0E	501	GDP	C8-N7-C5	2.28	107.33	102.99
39	F6	501	GDP	C3'-C2'-C1'	2.28	104.41	100.98
41	G0	501	GTP	O6-C6-C5	-2.28	119.92	124.37
39	O0	503	GDP	C3'-C2'-C1'	2.28	104.41	100.98
39	Q4	502	GDP	C8-N7-C5	2.28	107.33	102.99
41	3C	501	GTP	O6-C6-C5	-2.28	119.92	124.37
39	W8	503	GDP	C5-C6-N1	2.28	117.97	113.95
41	O0	501	GTP	O6-C6-C5	-2.28	119.92	124.37
41	1X	501	GTP	O6-C6-C5	-2.28	119.93	124.37
39	Y6	502	GDP	C8-N7-C5	2.28	107.33	102.99
41	L2	501	GTP	O6-C6-C5	-2.27	119.93	124.37
41	U2	501	GTP	O6-C6-C5	-2.27	119.93	124.37
39	1O	501	GDP	C5-C6-N1	2.27	117.97	113.95
39	M4	502	GDP	C5-C6-N1	2.27	117.97	113.95
41	R2	501	GTP	C3'-C2'-C1'	2.27	104.40	100.98
41	A9	501	GTP	O6-C6-C5	-2.27	119.94	124.37
39	S6	501	GDP	C8-N7-C5	2.27	107.32	102.99
39	A5	501	GDP	C5-C6-N1	2.27	117.96	113.95
39	Z2	503	GDP	C5-C6-N1	2.27	117.96	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	B0	501	GTP	O6-C6-C5	-2.27	119.94	124.37
41	2W	501	GTP	C3'-C2'-C1'	2.27	104.39	100.98
41	I5	501	GTP	O6-C6-C5	-2.27	119.95	124.37
39	3S	502	GDP	C8-N7-C5	2.27	107.31	102.99
39	C8	502	GDP	C8-N7-C5	2.27	107.31	102.99
41	T2	501	GTP	O6-C6-C5	-2.27	119.95	124.37
39	Z4	501	GDP	C3'-C2'-C1'	2.26	104.39	100.98
39	0Y	502	GDP	C8-N7-C5	2.26	107.30	102.99
41	0K	501	GTP	C3'-C2'-C1'	2.26	104.39	100.98
39	S2	502	GDP	C8-N7-C5	2.26	107.30	102.99
39	L6	502	GDP	C8-N7-C5	2.26	107.30	102.99
39	3K	503	GDP	C8-N7-C5	2.26	107.30	102.99
39	G8	501	GDP	C3'-C2'-C1'	2.26	104.38	100.98
41	1L	501	GTP	O6-C6-C5	-2.26	119.96	124.37
41	1T	501	GTP	O6-C6-C5	-2.26	119.96	124.37
39	A5	501	GDP	C8-N7-C5	2.26	107.30	102.99
39	D0	501	GDP	C8-N7-C5	2.26	107.30	102.99
39	D4	501	GDP	C5-C6-N1	2.26	117.94	113.95
39	E4	502	GDP	C8-N7-C5	2.26	107.29	102.99
41	3G	501	GTP	O6-C6-C5	-2.26	119.96	124.37
41	M2	501	GTP	O6-C6-C5	-2.26	119.96	124.37
39	2W	502	GDP	O3B-PB-O3A	2.26	112.20	104.64
39	F6	501	GDP	C8-N7-C5	2.26	107.29	102.99
39	2U	502	GDP	O3B-PB-O3A	2.25	112.20	104.64
41	F8	501	GTP	O6-C6-C5	-2.25	119.97	124.37
41	U4	501	GTP	O6-C6-C5	-2.25	119.97	124.37
39	F0	502	GDP	C8-N7-C5	2.25	107.28	102.99
39	0G	501	GDP	C8-N7-C5	2.25	107.28	102.99
39	3	502	GDP	C8-N7-C5	2.25	107.28	102.99
39	2Q	502	GDP	O3B-PB-O3A	2.25	112.18	104.64
39	2Q	502	GDP	C8-N7-C5	2.25	107.28	102.99
39	E2	501	GDP	C8-N7-C5	2.25	107.27	102.99
39	0O	502	GDP	C5-C6-N1	2.25	117.92	113.95
39	G0	502	GDP	C8-N7-C5	2.25	107.27	102.99
39	M2	502	GDP	C8-N7-C5	2.25	107.27	102.99
39	C4	501	GDP	C5-C6-N1	2.25	117.92	113.95
39	N8	502	GDP	C8-N7-C5	2.25	107.27	102.99
39	1Q	502	GDP	C8-N7-C5	2.25	107.27	102.99
39	Z2	503	GDP	C3'-C2'-C1'	2.25	104.36	100.98
41	G7	501	GTP	C3'-C2'-C1'	2.24	104.36	100.98
41	X6	501	GTP	C3'-C2'-C1'	2.24	104.36	100.98
41	3I	501	GTP	C3'-C2'-C1'	2.24	104.36	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	N6	503	GDP	C5-C6-N1	2.24	117.91	113.95
39	S4	501	GDP	C8-N7-C5	2.24	107.26	102.99
39	X8	501	GDP	C8-N7-C5	2.24	107.26	102.99
39	L2	502	GDP	C3'-C2'-C1'	2.24	104.35	100.98
41	U9	501	GTP	O6-C6-C5	-2.24	120.00	124.37
39	Z0	502	GDP	C8-N7-C5	2.24	107.25	102.99
39	M4	502	GDP	C8-N7-C5	2.24	107.25	102.99
39	1S	502	GDP	C8-N7-C5	2.24	107.25	102.99
39	D4	501	GDP	C8-N7-C5	2.24	107.25	102.99
41	3M	501	GTP	C3'-C2'-C1'	2.23	104.34	100.98
39	W4	502	GDP	C5-C6-N1	2.23	117.90	113.95
39	T4	502	GDP	C8-N7-C5	2.23	107.24	102.99
39	Z2	503	GDP	C8-N7-C5	2.23	107.24	102.99
39	3G	502	GDP	C8-N7-C5	2.23	107.24	102.99
41	W8	501	GTP	O6-C6-C5	-2.23	120.01	124.37
39	Z0	502	GDP	C5-C6-N1	2.23	117.89	113.95
41	2C	501	GTP	C3'-C2'-C1'	2.23	104.34	100.98
41	C1	501	GTP	O6-C6-C5	-2.23	120.02	124.37
39	Z6	502	GDP	C5-C6-N1	2.23	117.89	113.95
41	F3	501	GTP	O6-C6-C5	-2.23	120.02	124.37
39	T6	502	GDP	C8-N7-C5	2.23	107.23	102.99
39	S0	502	GDP	O3B-PB-O3A	2.23	112.10	104.64
39	3Q	501	GDP	C8-N7-C5	2.22	107.23	102.99
39	0S	502	GDP	C5-C6-N1	2.22	117.88	113.95
39	T0	501	GDP	C8-N7-C5	2.22	107.22	102.99
39	I4	502	GDP	C8-N7-C5	2.22	107.22	102.99
39	O0	503	GDP	C8-N7-C5	2.22	107.22	102.99
39	0K	502	GDP	C8-N7-C5	2.22	107.22	102.99
41	Q6	501	GTP	O6-C6-C5	-2.22	120.04	124.37
39	X4	502	GDP	C8-N7-C5	2.22	107.21	102.99
39	K0	502	GDP	O3B-PB-O3A	2.21	112.06	104.64
41	K0	501	GTP	O6-C6-C5	-2.21	120.06	124.37
39	F2	501	GDP	C8-N7-C5	2.21	107.20	102.99
41	M7	501	GTP	O6-C6-C5	-2.21	120.06	124.37
39	0K	502	GDP	C5-C6-N1	2.21	117.85	113.95
41	D1	501	GTP	O6-C6-C5	-2.21	120.06	124.37
39	Z4	501	GDP	C8-N7-C5	2.20	107.19	102.99
39	G6	501	GDP	C3'-C2'-C1'	2.20	104.29	100.98
41	R6	501	GTP	O6-C6-C5	-2.20	120.08	124.37
39	T4	502	GDP	C3'-C2'-C1'	2.20	104.28	100.98
39	Y0	502	GDP	C8-N7-C5	2.20	107.17	102.99
39	D6	501	GDP	C8-N7-C5	2.19	107.17	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	2G	501	GTP	O6-C6-C5	-2.19	120.09	124.37
41	C5	501	GTP	O6-C6-C5	-2.19	120.09	124.37
39	X0	502	GDP	C5-C6-N1	2.19	117.82	113.95
39	Z8	501	GDP	C8-N7-C5	2.19	107.17	102.99
41	T2	501	GTP	C3'-C2'-C1'	2.19	104.28	100.98
39	0G	501	GDP	C5-C6-N1	2.19	117.82	113.95
39	A9	502	GDP	C8-N7-C5	2.19	107.16	102.99
39	3I	502	GDP	O3B-PB-O3A	2.19	111.97	104.64
39	E8	502	GDP	C8-N7-C5	2.18	107.15	102.99
41	0Y	501	GTP	O6-C6-C5	-2.18	120.11	124.37
41	3T	501	GTP	O6-C6-C5	-2.18	120.11	124.37
39	F8	502	GDP	C3'-C2'-C1'	2.18	104.26	100.98
39	U4	502	GDP	O3B-PB-O3A	2.18	111.95	104.64
39	Z4	501	GDP	C5-C6-N1	2.18	117.80	113.95
41	L4	501	GTP	O6-C6-C5	-2.18	120.12	124.37
39	J8	502	GDP	O3B-PB-O3A	2.18	111.94	104.64
41	J6	501	GTP	O6-C6-C5	-2.17	120.12	124.37
41	O2	501	GTP	O6-C6-C5	-2.17	120.13	124.37
41	J0	501	GTP	O6-C6-C5	-2.17	120.13	124.37
39	T8	502	GDP	C8-N7-C5	2.17	107.12	102.99
39	T4	502	GDP	O6-C6-C5	-2.17	120.13	124.37
41	E4	501	GTP	O6-C6-C5	-2.17	120.14	124.37
39	S2	502	GDP	C3'-C2'-C1'	2.16	104.23	100.98
41	M0	501	GTP	O6-C6-C5	-2.16	120.15	124.37
39	5	501	GDP	C3'-C2'-C1'	2.16	104.23	100.98
41	B2	501	GTP	O6-C6-C5	-2.16	120.15	124.37
39	Z6	502	GDP	C8-N7-C5	2.16	107.10	102.99
39	R6	503	GDP	O3B-PB-O3A	2.16	111.87	104.64
41	2U	501	GTP	O6-C6-C5	-2.15	120.17	124.37
41	F1	501	GTP	C3'-C2'-C1'	2.15	104.22	100.98
39	E8	502	GDP	C3'-C2'-C1'	2.15	104.22	100.98
41	A4	501	GTP	C3'-C2'-C1'	2.15	104.22	100.98
41	3P	501	GTP	O6-C6-C5	-2.15	120.17	124.37
39	N6	503	GDP	C3'-C2'-C1'	2.15	104.21	100.98
41	X4	501	GTP	PA-O3A-PB	-2.15	125.45	132.83
41	G9	501	GTP	O6-C6-C5	-2.14	120.18	124.37
39	W4	502	GDP	O3B-PB-O3A	2.14	111.82	104.64
41	J2	501	GTP	O6-C6-C5	-2.14	120.19	124.37
41	3O	501	GTP	O6-C6-C5	-2.14	120.19	124.37
41	3M	501	GTP	O6-C6-C5	-2.14	120.19	124.37
39	G4	502	GDP	C3'-C2'-C1'	2.14	104.20	100.98
41	X4	501	GTP	C3'-C2'-C1'	2.14	104.20	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	1G	501	GTP	O6-C6-C5	-2.14	120.20	124.37
41	N3	501	GTP	O6-C6-C5	-2.14	120.20	124.37
39	J4	503	GDP	O3B-PB-O3A	2.14	111.80	104.64
41	K6	501	GTP	O6-C6-C5	-2.13	120.20	124.37
41	L2	501	GTP	C3'-C2'-C1'	2.13	104.19	100.98
41	K7	501	GTP	O6-C6-C5	-2.13	120.22	124.37
39	N2	501	GDP	O3B-PB-O3A	2.13	111.77	104.64
41	J4	501	GTP	C3'-C2'-C1'	2.13	104.18	100.98
41	S8	501	GTP	C3'-C2'-C1'	2.13	104.18	100.98
41	2Y	501	GTP	O6-C6-C5	-2.13	120.22	124.37
41	3S	501	GTP	O6-C6-C5	-2.13	120.22	124.37
41	1N	501	GTP	O6-C6-C5	-2.12	120.23	124.37
39	3A	502	GDP	O3B-PB-O3A	2.12	111.75	104.64
41	L6	501	GTP	C3'-C2'-C1'	2.12	104.17	100.98
41	I8	501	GTP	O6-C6-C5	-2.12	120.23	124.37
41	W0	501	GTP	O6-C6-C5	-2.12	120.23	124.37
41	0S	501	GTP	O6-C6-C5	-2.12	120.23	124.37
41	2L	501	GTP	O6-C6-C5	-2.12	120.23	124.37
39	R8	502	GDP	O3B-PB-O3A	2.12	111.73	104.64
41	C0	501	GTP	O6-C6-C5	-2.12	120.24	124.37
39	M6	502	GDP	O3B-PB-O3A	2.12	111.73	104.64
39	0M	502	GDP	C5-C6-N1	2.11	117.69	113.95
41	X0	501	GTP	O2G-PG-O3B	2.11	111.72	104.64
41	2K	501	GTP	O6-C6-C5	-2.11	120.25	124.37
41	K9	501	GTP	C3'-C2'-C1'	2.11	104.16	100.98
41	J8	501	GTP	O6-C6-C5	-2.11	120.25	124.37
41	2I	501	GTP	O6-C6-C5	-2.11	120.25	124.37
41	B7	501	GTP	O6-C6-C5	-2.11	120.26	124.37
41	Y4	501	GTP	O6-C6-C5	-2.11	120.26	124.37
41	W5	501	GTP	O6-C6-C5	-2.10	120.26	124.37
39	0O	502	GDP	O3B-PB-O3A	2.10	111.69	104.64
41	D5	501	GTP	O6-C6-C5	-2.10	120.27	124.37
39	Z4	501	GDP	O6-C6-C5	-2.10	120.27	124.37
41	0V	501	GTP	O6-C6-C5	-2.10	120.27	124.37
39	2Q	502	GDP	O6-C6-C5	-2.10	120.27	124.37
41	C8	501	GTP	O6-C6-C5	-2.10	120.27	124.37
39	E0	501	GDP	C8-N7-C5	2.10	106.99	102.99
41	K4	501	GTP	O6-C6-C5	-2.10	120.27	124.37
41	F8	501	GTP	C3'-C2'-C1'	2.10	104.14	100.98
41	A4	501	GTP	O6-C6-C5	-2.10	120.28	124.37
41	3D	501	GTP	O6-C6-C5	-2.10	120.28	124.37
41	3K	501	GTP	O6-C6-C5	-2.10	120.28	124.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	T0	501	GDP	O6-C6-C5	-2.09	120.28	124.37
39	1A	503	GDP	O3B-PB-O3A	2.09	111.64	104.64
41	N6	501	GTP	C3'-C2'-C1'	2.09	104.12	100.98
41	1C	501	GTP	O6-C6-C5	-2.09	120.29	124.37
39	3C	502	GDP	O3B-PB-O3A	2.09	111.64	104.64
41	1H	501	GTP	O6-C6-C5	-2.09	120.30	124.37
41	W4	501	GTP	O6-C6-C5	-2.08	120.30	124.37
41	2N	501	GTP	O6-C6-C5	-2.08	120.30	124.37
41	F0	501	GTP	C3'-C2'-C1'	2.08	104.11	100.98
41	A1	501	GTP	O6-C6-C5	-2.08	120.31	124.37
39	B5	502	GDP	C3'-C2'-C1'	2.08	104.11	100.98
41	N6	501	GTP	O6-C6-C5	-2.08	120.32	124.37
39	1Q	502	GDP	O3B-PB-O3A	2.08	111.59	104.64
39	1M	501	GDP	O3B-PB-O3A	2.07	111.58	104.64
39	C4	501	GDP	C3'-C2'-C1'	2.07	104.10	100.98
39	F0	502	GDP	C3'-C2'-C1'	2.07	104.09	100.98
39	0S	502	GDP	C2'-C3'-C4'	2.07	106.66	102.64
39	Q6	502	GDP	C3'-C2'-C1'	2.07	104.09	100.98
39	3M	502	GDP	C3'-C2'-C1'	2.06	104.09	100.98
39	0U	501	GDP	O3B-PB-O3A	2.06	111.56	104.64
39	0U	501	GDP	O6-C6-C5	-2.06	120.34	124.37
41	L6	501	GTP	O6-C6-C5	-2.06	120.34	124.37
39	Q0	501	GDP	O3B-PB-O3A	2.06	111.54	104.64
39	Z6	502	GDP	C3'-C2'-C1'	2.06	104.08	100.98
41	S9	501	GTP	O6-C6-C5	2.06	128.39	124.37
39	J6	502	GDP	O3B-PB-O3A	2.05	111.52	104.64
39	V4	501	GDP	O3B-PB-O3A	2.05	111.52	104.64
39	M0	502	GDP	O3B-PB-O3A	2.05	111.52	104.64
39	V8	502	GDP	O3B-PB-O3A	2.05	111.51	104.64
39	P6	503	GDP	C3'-C2'-C1'	2.05	104.06	100.98
39	T8	502	GDP	O6-C6-C5	-2.05	120.37	124.37
39	1Q	502	GDP	O6-C6-C5	-2.05	120.38	124.37
39	C2	501	GDP	O3B-PB-O3A	2.05	111.50	104.64
39	2Q	502	GDP	C3'-C2'-C1'	2.04	104.06	100.98
39	0M	502	GDP	O6-C6-C5	-2.04	120.38	124.37
41	2E	501	GTP	O6-C6-C5	-2.04	120.39	124.37
39	3G	502	GDP	O3B-PB-O3A	2.04	111.46	104.64
39	0O	502	GDP	C3'-C2'-C1'	2.03	104.04	100.98
39	2S	502	GDP	O3B-PB-O3A	2.03	111.45	104.64
39	W2	503	GDP	O3B-PB-O3A	2.03	111.45	104.64
39	P4	503	GDP	O6-C6-C5	-2.03	120.41	124.37
39	X4	502	GDP	C2'-C3'-C4'	2.03	106.58	102.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	H8	501	GTP	C3'-C2'-C1'	2.03	104.03	100.98
41	E6	501	GTP	O6-C6-C5	-2.03	120.41	124.37
41	Y1	501	GTP	O6-C6-C5	-2.02	120.42	124.37
39	S4	501	GDP	O6-C6-C5	-2.02	120.42	124.37
41	3P	501	GTP	C3'-C2'-C1'	2.02	104.02	100.98
39	Q6	502	GDP	O6-C6-C5	-2.02	120.42	124.37
39	V2	503	GDP	O3B-PB-O3A	2.02	111.41	104.64
41	D3	501	GTP	O6-C6-C5	-2.02	120.43	124.37
39	F6	501	GDP	O6-C6-C5	-2.02	120.43	124.37
41	K1	501	GTP	O6-C6-C5	-2.02	120.43	124.37
39	0A	503	GDP	C5-C6-N1	2.02	117.51	113.95
39	L4	502	GDP	O3B-PB-O3A	2.01	111.39	104.64
39	F0	502	GDP	O6-C6-C5	-2.01	120.44	124.37
41	V8	501	GTP	O6-C6-C5	-2.01	120.44	124.37
41	3I	501	GTP	O6-C6-C5	-2.01	120.44	124.37
39	E6	502	GDP	O6-C6-C5	-2.01	120.45	124.37
41	O9	501	GTP	O6-C6-C5	-2.01	120.45	124.37
41	Z0	501	GTP	C3'-C2'-C1'	2.01	104.00	100.98
41	O8	501	GTP	O6-C6-C5	-2.00	120.46	124.37
39	R4	502	GDP	O6-C6-C5	-2.00	120.46	124.37
39	G0	502	GDP	O6-C6-C5	-2.00	120.46	124.37

There are no chirality outliers.

All (1758) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
39	2	501	GDP	PA-O3A-PB-O3B
39	2	501	GDP	C5'-O5'-PA-O3A
39	2	501	GDP	C5'-O5'-PA-O1A
39	3	502	GDP	C5'-O5'-PA-O3A
39	3	502	GDP	C5'-O5'-PA-O2A
39	5	501	GDP	C5'-O5'-PA-O3A
39	7	502	GDP	C5'-O5'-PA-O3A
39	A1	502	GDP	PA-O3A-PB-O3B
39	A1	502	GDP	C5'-O5'-PA-O3A
39	A1	502	GDP	C5'-O5'-PA-O1A
39	A1	502	GDP	O4'-C4'-C5'-O5'
39	A1	502	GDP	C3'-C4'-C5'-O5'
39	A3	501	GDP	C5'-O5'-PA-O1A
39	A7	501	GDP	PA-O3A-PB-O3B
39	A9	502	GDP	C5'-O5'-PA-O3A
39	A9	502	GDP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
39	B3	501	GDP	C5'-O5'-PA-O3A
39	B5	502	GDP	PA-O3A-PB-O3B
39	B5	502	GDP	C5'-O5'-PA-O3A
39	B8	501	GDP	PA-O3A-PB-O3B
39	B8	501	GDP	C5'-O5'-PA-O3A
39	B8	501	GDP	C5'-O5'-PA-O1A
39	C0	502	GDP	PA-O3A-PB-O3B
39	C2	501	GDP	C5'-O5'-PA-O3A
39	C2	501	GDP	C5'-O5'-PA-O1A
39	C4	501	GDP	PA-O3A-PB-O3B
39	C6	501	GDP	C5'-O5'-PA-O3A
39	C8	502	GDP	PA-O3A-PB-O3B
39	D0	501	GDP	PA-O3A-PB-O3B
39	D0	501	GDP	C5'-O5'-PA-O1A
39	D0	501	GDP	C5'-O5'-PA-O2A
39	D0	501	GDP	O4'-C4'-C5'-O5'
39	D2	501	GDP	PA-O3A-PB-O3B
39	D2	501	GDP	C5'-O5'-PA-O1A
39	D4	501	GDP	PA-O3A-PB-O3B
39	D4	501	GDP	C5'-O5'-PA-O1A
39	D4	501	GDP	C3'-C4'-C5'-O5'
39	D6	501	GDP	PA-O3A-PB-O3B
39	D6	501	GDP	C5'-O5'-PA-O3A
39	D6	501	GDP	C5'-O5'-PA-O1A
39	D6	501	GDP	C3'-C4'-C5'-O5'
39	D8	501	GDP	PA-O3A-PB-O3B
39	E0	501	GDP	PA-O3A-PB-O3B
39	E0	501	GDP	C5'-O5'-PA-O1A
39	E2	501	GDP	PA-O3A-PB-O3B
39	E2	501	GDP	O4'-C4'-C5'-O5'
39	E2	501	GDP	C3'-C4'-C5'-O5'
39	E4	502	GDP	C5'-O5'-PA-O3A
39	E4	502	GDP	C5'-O5'-PA-O1A
39	E6	502	GDP	PA-O3A-PB-O3B
39	E6	502	GDP	C5'-O5'-PA-O3A
39	E6	502	GDP	O4'-C4'-C5'-O5'
39	E6	502	GDP	C3'-C4'-C5'-O5'
39	E8	502	GDP	PA-O3A-PB-O2B
39	E8	502	GDP	PA-O3A-PB-O3B
39	E8	502	GDP	C5'-O5'-PA-O1A
39	F0	502	GDP	PA-O3A-PB-O3B
39	F2	501	GDP	PA-O3A-PB-O3B

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Mol	Chain	Res	Type	Atoms
39	F6	501	GDP	C5'-O5'-PA-O1A
39	F8	502	GDP	C5'-O5'-PA-O1A
39	G0	502	GDP	C5'-O5'-PA-O1A
39	G2	501	GDP	C5'-O5'-PA-O1A
39	G4	502	GDP	C5'-O5'-PA-O1A
39	G6	501	GDP	C5'-O5'-PA-O1A
39	H4	501	GDP	C5'-O5'-PA-O3A
39	H4	501	GDP	C5'-O5'-PA-O1A
39	H8	503	GDP	C5'-O5'-PA-O1A
39	I0	502	GDP	C5'-O5'-PA-O1A
39	I8	502	GDP	C5'-O5'-PA-O1A
39	J0	502	GDP	C5'-O5'-PA-O1A
39	J2	502	GDP	PA-O3A-PB-O3B
39	J2	502	GDP	C5'-O5'-PA-O1A
39	J4	503	GDP	PA-O3A-PB-O3B
39	J4	503	GDP	C5'-O5'-PA-O1A
39	K0	502	GDP	PA-O3A-PB-O3B
39	K4	502	GDP	C5'-O5'-PA-O1A
39	K6	502	GDP	C5'-O5'-PA-O3A
39	K8	501	GDP	C5'-O5'-PA-O1A
39	L0	501	GDP	C5'-O5'-PA-O3A
39	L0	501	GDP	C5'-O5'-PA-O1A
39	L2	502	GDP	PA-O3A-PB-O3B
39	L2	502	GDP	C5'-O5'-PA-O1A
39	L4	502	GDP	C5'-O5'-PA-O1A
39	L6	502	GDP	PA-O3A-PB-O3B
39	L6	502	GDP	C5'-O5'-PA-O3A
39	M0	502	GDP	C5'-O5'-PA-O1A
39	M2	502	GDP	C5'-O5'-PA-O1A
39	M4	502	GDP	C5'-O5'-PA-O3A
39	M6	502	GDP	PA-O3A-PB-O3B
39	M6	502	GDP	C5'-O5'-PA-O1A
39	M8	501	GDP	PA-O3A-PB-O3B
39	M8	501	GDP	C5'-O5'-PA-O1A
39	N2	501	GDP	PA-O3A-PB-O3B
39	N6	503	GDP	PA-O3A-PB-O3B
39	N6	503	GDP	C5'-O5'-PA-O1A
39	N8	502	GDP	PA-O3A-PB-O3B
39	N8	502	GDP	C5'-O5'-PA-O1A
39	O0	503	GDP	C5'-O5'-PA-O1A
39	O2	502	GDP	C5'-O5'-PA-O3A
39	O2	502	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
39	O4	502	GDP	PA-O3A-PB-O2B
39	O4	502	GDP	PA-O3A-PB-O3B
39	O4	502	GDP	C5'-O5'-PA-O1A
39	O6	502	GDP	PA-O3A-PB-O2B
39	O6	502	GDP	PA-O3A-PB-O3B
39	O6	502	GDP	C5'-O5'-PA-O1A
39	P4	503	GDP	PA-O3A-PB-O3B
39	P4	503	GDP	C5'-O5'-PA-O1A
39	P6	503	GDP	PA-O3A-PB-O2B
39	P6	503	GDP	PA-O3A-PB-O3B
39	P6	503	GDP	C5'-O5'-PA-O3A
39	P6	503	GDP	C5'-O5'-PA-O1A
39	Q0	501	GDP	PA-O3A-PB-O2B
39	Q0	501	GDP	PA-O3A-PB-O3B
39	Q0	501	GDP	C5'-O5'-PA-O1A
39	Q2	502	GDP	C5'-O5'-PA-O3A
39	Q2	502	GDP	C5'-O5'-PA-O1A
39	Q4	502	GDP	PA-O3A-PB-O3B
39	Q4	502	GDP	C5'-O5'-PA-O3A
39	Q4	502	GDP	C5'-O5'-PA-O1A
39	Q4	502	GDP	C3'-C4'-C5'-O5'
39	Q6	502	GDP	PA-O3A-PB-O3B
39	Q6	502	GDP	C5'-O5'-PA-O3A
39	Q6	502	GDP	O4'-C4'-C5'-O5'
39	Q6	502	GDP	C3'-C4'-C5'-O5'
39	Q8	501	GDP	PA-O3A-PB-O3B
39	R0	502	GDP	PA-O3A-PB-O3B
39	R2	502	GDP	C5'-O5'-PA-O1A
39	R4	502	GDP	PA-O3A-PB-O2B
39	R4	502	GDP	PA-O3A-PB-O3B
39	R4	502	GDP	C5'-O5'-PA-O3A
39	R4	502	GDP	C5'-O5'-PA-O1A
39	R8	502	GDP	C5'-O5'-PA-O1A
39	S0	502	GDP	PA-O3A-PB-O3B
39	S2	502	GDP	PA-O3A-PB-O3B
39	S2	502	GDP	C5'-O5'-PA-O1A
39	S2	502	GDP	C3'-C4'-C5'-O5'
39	S4	501	GDP	C5'-O5'-PA-O1A
39	S6	501	GDP	PA-O3A-PB-O2B
39	S6	501	GDP	PA-O3A-PB-O3B
39	S6	501	GDP	C5'-O5'-PA-O3A
39	S6	501	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
39	S8	502	GDP	PA-O3A-PB-O3B
39	T0	501	GDP	C5'-O5'-PA-O3A
39	T0	501	GDP	C5'-O5'-PA-O1A
39	T2	502	GDP	PA-O3A-PB-O2B
39	T2	502	GDP	PA-O3A-PB-O3B
39	T2	502	GDP	C5'-O5'-PA-O1A
39	T4	502	GDP	C5'-O5'-PA-O3A
39	T4	502	GDP	C3'-C4'-C5'-O5'
39	T6	502	GDP	PA-O3A-PB-O2B
39	T6	502	GDP	PA-O3A-PB-O3B
39	T6	502	GDP	C5'-O5'-PA-O3A
39	T6	502	GDP	C5'-O5'-PA-O1A
39	T8	502	GDP	C5'-O5'-PA-O3A
39	T8	502	GDP	C5'-O5'-PA-O1A
39	U2	502	GDP	PA-O3A-PB-O3B
39	U4	502	GDP	C5'-O5'-PA-O3A
39	U4	502	GDP	C5'-O5'-PA-O1A
39	U6	502	GDP	C5'-O5'-PA-O1A
39	U8	501	GDP	C5'-O5'-PA-O1A
39	V0	501	GDP	C5'-O5'-PA-O1A
39	V2	503	GDP	C5'-O5'-PA-O3A
39	V2	503	GDP	C5'-O5'-PA-O1A
39	V4	501	GDP	C5'-O5'-PA-O3A
39	V4	501	GDP	C5'-O5'-PA-O1A
39	V8	502	GDP	PA-O3A-PB-O3B
39	W0	502	GDP	PA-O3A-PB-O3B
39	W4	502	GDP	C5'-O5'-PA-O1A
39	X2	501	GDP	PA-O3A-PB-O3B
39	X4	502	GDP	PA-O3A-PB-O3B
39	X6	502	GDP	PA-O3A-PB-O3B
39	X8	501	GDP	PA-O3A-PB-O3B
39	Y0	502	GDP	PA-O3A-PB-O3B
39	Y2	501	GDP	PA-O3A-PB-O3B
39	Y4	502	GDP	PA-O3A-PB-O3B
39	Y4	502	GDP	C5'-O5'-PA-O1A
39	Y6	502	GDP	PA-O3A-PB-O3B
39	Y8	501	GDP	PA-O3A-PB-O3B
39	Z0	502	GDP	PA-O3A-PB-O3B
39	Z4	501	GDP	C5'-O5'-PA-O1A
39	Z6	502	GDP	C5'-O5'-PA-O1A
39	Z8	501	GDP	C5'-O5'-PA-O1A
39	0A	503	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
39	0C	502	GDP	C5'-O5'-PA-O1A
39	0C	502	GDP	C3'-C4'-C5'-O5'
39	0E	501	GDP	C5'-O5'-PA-O1A
39	0I	502	GDP	C5'-O5'-PA-O1A
39	0K	502	GDP	C5'-O5'-PA-O3A
39	0K	502	GDP	C5'-O5'-PA-O1A
39	0M	502	GDP	C5'-O5'-PA-O1A
39	0Q	502	GDP	C5'-O5'-PA-O1A
39	0S	502	GDP	PA-O3A-PB-O3B
39	0U	501	GDP	PA-O3A-PB-O3B
39	0U	501	GDP	C5'-O5'-PA-O3A
39	0W	502	GDP	C5'-O5'-PA-O1A
39	1A	503	GDP	C5'-O5'-PA-O1A
39	1C	502	GDP	C5'-O5'-PA-O3A
39	1C	502	GDP	C5'-O5'-PA-O1A
39	1K	501	GDP	C5'-O5'-PA-O1A
39	1Q	502	GDP	C5'-O5'-PA-O1A
39	1S	502	GDP	C5'-O5'-PA-O1A
39	1U	501	GDP	C5'-O5'-PA-O1A
39	2C	502	GDP	C5'-O5'-PA-O1A
39	2G	502	GDP	C5'-O5'-PA-O3A
39	2I	502	GDP	C5'-O5'-PA-O1A
39	2K	502	GDP	C5'-O5'-PA-O1A
39	2Q	502	GDP	C5'-O5'-PA-O1A
39	2S	502	GDP	C5'-O5'-PA-O1A
39	2U	502	GDP	PA-O3A-PB-O3B
39	2U	502	GDP	C5'-O5'-PA-O1A
39	2W	502	GDP	C5'-O5'-PA-O3A
39	2W	502	GDP	C5'-O5'-PA-O1A
39	2Y	502	GDP	PA-O3A-PB-O3B
39	2Y	502	GDP	C5'-O5'-PA-O3A
39	2Y	502	GDP	O4'-C4'-C5'-O5'
39	2Y	502	GDP	C3'-C4'-C5'-O5'
39	3A	502	GDP	C5'-O5'-PA-O3A
39	3C	502	GDP	C5'-O5'-PA-O1A
39	3I	502	GDP	C5'-O5'-PA-O1A
39	3K	503	GDP	PA-O3A-PB-O3B
39	3M	502	GDP	PA-O3A-PB-O3B
39	3M	502	GDP	C5'-O5'-PA-O1A
39	3M	502	GDP	C3'-C4'-C5'-O5'
39	3O	502	GDP	PA-O3A-PB-O3B
39	3Q	501	GDP	PA-O3A-PB-O3B

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Mol	Chain	Res	Type	Atoms
39	3S	502	GDP	PA-O3A-PB-O3B
41	3	501	GTP	C5'-O5'-PA-O1A
41	3	501	GTP	C5'-O5'-PA-O2A
41	4	501	GTP	C5'-O5'-PA-O1A
41	4	501	GTP	C5'-O5'-PA-O2A
41	7	501	GTP	C5'-O5'-PA-O1A
41	8	501	GTP	C5'-O5'-PA-O1A
41	8	501	GTP	C5'-O5'-PA-O2A
41	A1	501	GTP	PB-O3A-PA-O5'
41	A1	501	GTP	C5'-O5'-PA-O1A
41	A1	501	GTP	C5'-O5'-PA-O2A
41	A4	501	GTP	C5'-O5'-PA-O1A
41	A4	501	GTP	C5'-O5'-PA-O2A
41	A9	501	GTP	PB-O3A-PA-O5'
41	A9	501	GTP	C5'-O5'-PA-O1A
41	A9	501	GTP	C5'-O5'-PA-O2A
41	B0	501	GTP	C5'-O5'-PA-O1A
41	B0	501	GTP	C5'-O5'-PA-O2A
41	B5	501	GTP	C5'-O5'-PA-O1A
41	B5	501	GTP	C5'-O5'-PA-O2A
41	B7	501	GTP	C5'-O5'-PA-O1A
41	B7	501	GTP	C5'-O5'-PA-O2A
41	C0	501	GTP	C5'-O5'-PA-O1A
41	C1	501	GTP	C5'-O5'-PA-O1A
41	C1	501	GTP	C5'-O5'-PA-O2A
41	C5	501	GTP	C5'-O5'-PA-O1A
41	C5	501	GTP	C5'-O5'-PA-O2A
41	C8	501	GTP	O4'-C4'-C5'-O5'
41	C8	501	GTP	C3'-C4'-C5'-O5'
41	C9	501	GTP	C5'-O5'-PA-O1A
41	C9	501	GTP	C5'-O5'-PA-O2A
41	D1	501	GTP	C5'-O5'-PA-O3A
41	D1	501	GTP	C5'-O5'-PA-O2A
41	D3	501	GTP	C5'-O5'-PA-O1A
41	D3	501	GTP	C5'-O5'-PA-O2A
41	D5	501	GTP	C5'-O5'-PA-O1A
41	D5	501	GTP	C5'-O5'-PA-O2A
41	E1	501	GTP	C5'-O5'-PA-O1A
41	E1	501	GTP	C5'-O5'-PA-O2A
41	E4	501	GTP	C5'-O5'-PA-O1A
41	E4	501	GTP	C5'-O5'-PA-O2A
41	E6	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
41	E6	501	GTP	C5'-O5'-PA-O1A
41	E6	501	GTP	C5'-O5'-PA-O2A
41	E8	501	GTP	PB-O3A-PA-O5'
41	E8	501	GTP	C5'-O5'-PA-O3A
41	E8	501	GTP	C5'-O5'-PA-O2A
41	F0	501	GTP	C5'-O5'-PA-O3A
41	F0	501	GTP	C5'-O5'-PA-O2A
41	F1	501	GTP	C5'-O5'-PA-O1A
41	F1	501	GTP	C5'-O5'-PA-O2A
41	F3	501	GTP	C5'-O5'-PA-O1A
41	F3	501	GTP	C5'-O5'-PA-O2A
41	F5	501	GTP	C5'-O5'-PA-O1A
41	F8	501	GTP	PB-O3A-PA-O5'
41	F8	501	GTP	C5'-O5'-PA-O3A
41	F8	501	GTP	C5'-O5'-PA-O1A
41	F8	501	GTP	C5'-O5'-PA-O2A
41	G0	501	GTP	PB-O3A-PA-O5'
41	G0	501	GTP	C5'-O5'-PA-O3A
41	G0	501	GTP	C5'-O5'-PA-O1A
41	G0	501	GTP	C5'-O5'-PA-O2A
41	G1	501	GTP	C5'-O5'-PA-O1A
41	G1	501	GTP	C5'-O5'-PA-O2A
41	G4	501	GTP	C5'-O5'-PA-O1A
41	G4	501	GTP	C5'-O5'-PA-O2A
41	G5	501	GTP	PB-O3A-PA-O5'
41	G5	501	GTP	C5'-O5'-PA-O3A
41	G5	501	GTP	C5'-O5'-PA-O2A
41	G7	501	GTP	C5'-O5'-PA-O1A
41	G7	501	GTP	C5'-O5'-PA-O2A
41	G9	501	GTP	C5'-O5'-PA-O3A
41	G9	501	GTP	C5'-O5'-PA-O2A
41	H2	501	GTP	C5'-O5'-PA-O1A
41	H2	501	GTP	C5'-O5'-PA-O2A
41	H3	501	GTP	C5'-O5'-PA-O1A
41	H3	501	GTP	C5'-O5'-PA-O2A
41	H6	501	GTP	PB-O3A-PA-O5'
41	H6	501	GTP	C5'-O5'-PA-O1A
41	H6	501	GTP	C5'-O5'-PA-O2A
41	H8	501	GTP	C5'-O5'-PA-O1A
41	H8	501	GTP	C5'-O5'-PA-O2A
41	I0	501	GTP	C5'-O5'-PA-O1A
41	I0	501	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
41	I1	501	GTP	C5'-O5'-PA-O1A
41	I1	501	GTP	C5'-O5'-PA-O2A
41	I4	501	GTP	C5'-O5'-PA-O1A
41	I5	501	GTP	PB-O3A-PA-O5'
41	I5	501	GTP	C5'-O5'-PA-O1A
41	I5	501	GTP	C5'-O5'-PA-O2A
41	I5	501	GTP	C3'-C4'-C5'-O5'
41	I8	501	GTP	C5'-O5'-PA-O3A
41	I8	501	GTP	C5'-O5'-PA-O1A
41	I8	501	GTP	C5'-O5'-PA-O2A
41	J0	501	GTP	C5'-O5'-PA-O3A
41	J0	501	GTP	C5'-O5'-PA-O1A
41	J0	501	GTP	C5'-O5'-PA-O2A
41	J2	501	GTP	C5'-O5'-PA-O1A
41	J2	501	GTP	C5'-O5'-PA-O2A
41	J4	501	GTP	C5'-O5'-PA-O1A
41	J6	501	GTP	C5'-O5'-PA-O1A
41	J6	501	GTP	C5'-O5'-PA-O2A
41	J8	501	GTP	C5'-O5'-PA-O1A
41	K0	501	GTP	C5'-O5'-PA-O1A
41	K0	501	GTP	C5'-O5'-PA-O2A
41	K1	501	GTP	C5'-O5'-PA-O3A
41	K1	501	GTP	C5'-O5'-PA-O2A
41	K4	501	GTP	C5'-O5'-PA-O1A
41	K4	501	GTP	C5'-O5'-PA-O2A
41	K6	501	GTP	C5'-O5'-PA-O1A
41	K6	501	GTP	C5'-O5'-PA-O2A
41	K7	501	GTP	PB-O3A-PA-O5'
41	K7	501	GTP	C5'-O5'-PA-O3A
41	K7	501	GTP	C5'-O5'-PA-O1A
41	K7	501	GTP	C5'-O5'-PA-O2A
41	K9	501	GTP	C5'-O5'-PA-O1A
41	K9	501	GTP	C5'-O5'-PA-O2A
41	L2	501	GTP	C5'-O5'-PA-O1A
41	L2	501	GTP	C5'-O5'-PA-O2A
41	L4	501	GTP	C5'-O5'-PA-O1A
41	L4	501	GTP	C5'-O5'-PA-O2A
41	L6	501	GTP	C5'-O5'-PA-O3A
41	L6	501	GTP	C5'-O5'-PA-O2A
41	L7	501	GTP	PB-O3A-PA-O5'
41	L7	501	GTP	C5'-O5'-PA-O3A
41	L7	501	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
41	M0	501	GTP	C5'-O5'-PA-O1A
41	M0	501	GTP	C5'-O5'-PA-O2A
41	M2	501	GTP	C5'-O5'-PA-O1A
41	M2	501	GTP	C5'-O5'-PA-O2A
41	M4	501	GTP	C5'-O5'-PA-O1A
41	M4	501	GTP	C5'-O5'-PA-O2A
41	M6	501	GTP	C5'-O5'-PA-O1A
41	M6	501	GTP	C5'-O5'-PA-O2A
41	M7	501	GTP	C5'-O5'-PA-O1A
41	M7	501	GTP	C5'-O5'-PA-O2A
41	N0	501	GTP	C5'-O5'-PA-O1A
41	N0	501	GTP	C5'-O5'-PA-O2A
41	N1	501	GTP	C5'-O5'-PA-O1A
41	N1	501	GTP	C5'-O5'-PA-O2A
41	N3	501	GTP	PB-O3A-PA-O5'
41	N3	501	GTP	C5'-O5'-PA-O3A
41	N3	501	GTP	C5'-O5'-PA-O1A
41	N3	501	GTP	C5'-O5'-PA-O2A
41	N6	501	GTP	C5'-O5'-PA-O3A
41	N6	501	GTP	C5'-O5'-PA-O2A
41	N8	501	GTP	C5'-O5'-PA-O1A
41	N8	501	GTP	C5'-O5'-PA-O2A
41	O0	501	GTP	C5'-O5'-PA-O1A
41	O0	501	GTP	C5'-O5'-PA-O2A
41	O2	501	GTP	PB-O3A-PA-O5'
41	O2	501	GTP	C5'-O5'-PA-O1A
41	O2	501	GTP	C5'-O5'-PA-O2A
41	O2	501	GTP	O4'-C4'-C5'-O5'
41	O2	501	GTP	C3'-C4'-C5'-O5'
41	O4	501	GTP	C5'-O5'-PA-O1A
41	O4	501	GTP	C5'-O5'-PA-O2A
41	O6	501	GTP	C5'-O5'-PA-O1A
41	O6	501	GTP	C5'-O5'-PA-O2A
41	O8	501	GTP	C5'-O5'-PA-O1A
41	O8	501	GTP	C5'-O5'-PA-O2A
41	O9	501	GTP	C5'-O5'-PA-O1A
41	O9	501	GTP	C5'-O5'-PA-O2A
41	P4	501	GTP	C5'-O5'-PA-O3A
41	P4	501	GTP	C5'-O5'-PA-O2A
41	P6	501	GTP	C5'-O5'-PA-O1A
41	P6	501	GTP	C5'-O5'-PA-O2A
41	P8	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
41	P8	501	GTP	C5'-O5'-PA-O2A
41	P9	501	GTP	C5'-O5'-PA-O1A
41	P9	501	GTP	C5'-O5'-PA-O2A
41	Q2	501	GTP	C5'-O5'-PA-O1A
41	Q2	501	GTP	C5'-O5'-PA-O2A
41	Q4	501	GTP	C5'-O5'-PA-O1A
41	Q4	501	GTP	C5'-O5'-PA-O2A
41	Q6	501	GTP	C5'-O5'-PA-O3A
41	Q6	501	GTP	C5'-O5'-PA-O1A
41	Q6	501	GTP	C5'-O5'-PA-O2A
41	R0	501	GTP	C5'-O5'-PA-O1A
41	R0	501	GTP	C5'-O5'-PA-O2A
41	R2	501	GTP	C5'-O5'-PA-O1A
41	R2	501	GTP	C5'-O5'-PA-O2A
41	R4	501	GTP	C5'-O5'-PA-O1A
41	R4	501	GTP	C5'-O5'-PA-O2A
41	R6	501	GTP	C5'-O5'-PA-O3A
41	R6	501	GTP	C5'-O5'-PA-O1A
41	R6	501	GTP	C5'-O5'-PA-O2A
41	R8	501	GTP	C5'-O5'-PA-O1A
41	R8	501	GTP	C5'-O5'-PA-O2A
41	S0	501	GTP	C5'-O5'-PA-O1A
41	S0	501	GTP	C5'-O5'-PA-O2A
41	S2	501	GTP	C5'-O5'-PA-O3A
41	S2	501	GTP	C5'-O5'-PA-O1A
41	S2	501	GTP	C5'-O5'-PA-O2A
41	S5	501	GTP	C5'-O5'-PA-O1A
41	S5	501	GTP	C5'-O5'-PA-O2A
41	S8	501	GTP	C5'-O5'-PA-O1A
41	S8	501	GTP	C5'-O5'-PA-O2A
41	S9	501	GTP	C5'-O5'-PA-O3A
41	S9	501	GTP	C5'-O5'-PA-O2A
41	S9	501	GTP	C4'-C5'-O5'-PA
41	T2	501	GTP	C5'-O5'-PA-O1A
41	T2	501	GTP	C5'-O5'-PA-O2A
41	T4	501	GTP	C5'-O5'-PA-O1A
41	T4	501	GTP	C5'-O5'-PA-O2A
41	T6	501	GTP	C5'-O5'-PA-O1A
41	T6	501	GTP	C5'-O5'-PA-O2A
41	T8	501	GTP	C5'-O5'-PA-O3A
41	T8	501	GTP	C5'-O5'-PA-O2A
41	U2	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
41	U2	501	GTP	C5'-O5'-PA-O2A
41	U4	501	GTP	C5'-O5'-PA-O1A
41	U6	501	GTP	C5'-O5'-PA-O1A
41	U7	501	GTP	C5'-O5'-PA-O1A
41	U9	501	GTP	C5'-O5'-PA-O1A
41	U9	501	GTP	C5'-O5'-PA-O2A
41	V2	501	GTP	C5'-O5'-PA-O1A
41	V2	501	GTP	C5'-O5'-PA-O2A
41	V3	501	GTP	C5'-O5'-PA-O1A
41	V8	501	GTP	C5'-O5'-PA-O1A
41	V8	501	GTP	C5'-O5'-PA-O2A
41	W0	501	GTP	C5'-O5'-PA-O1A
41	W0	501	GTP	C5'-O5'-PA-O2A
41	W2	501	GTP	C5'-O5'-PA-O1A
41	W2	501	GTP	C5'-O5'-PA-O2A
41	W4	501	GTP	C5'-O5'-PA-O1A
41	W4	501	GTP	C5'-O5'-PA-O2A
41	W5	501	GTP	C5'-O5'-PA-O1A
41	W5	501	GTP	C5'-O5'-PA-O2A
41	W8	501	GTP	C5'-O5'-PA-O1A
41	W8	501	GTP	C5'-O5'-PA-O2A
41	X0	501	GTP	PB-O3B-PG-O2G
41	X0	501	GTP	PB-O3B-PG-O3G
41	X0	501	GTP	PB-O3A-PA-O5'
41	X0	501	GTP	C3'-C4'-C5'-O5'
41	X4	501	GTP	PB-O3A-PA-O5'
41	X4	501	GTP	C5'-O5'-PA-O3A
41	X4	501	GTP	O4'-C4'-C5'-O5'
41	X4	501	GTP	C3'-C4'-C5'-O5'
41	X6	501	GTP	C5'-O5'-PA-O1A
41	X6	501	GTP	C5'-O5'-PA-O2A
41	X6	501	GTP	C3'-C4'-C5'-O5'
41	X7	501	GTP	C5'-O5'-PA-O3A
41	X7	501	GTP	C5'-O5'-PA-O2A
41	X7	501	GTP	O4'-C4'-C5'-O5'
41	X7	501	GTP	C3'-C4'-C5'-O5'
41	Y0	501	GTP	C5'-O5'-PA-O1A
41	Y0	501	GTP	C5'-O5'-PA-O2A
41	Y1	501	GTP	C5'-O5'-PA-O1A
41	Y1	501	GTP	C5'-O5'-PA-O2A
41	Y4	501	GTP	PB-O3A-PA-O5'
41	Y4	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
41	Y4	501	GTP	C5'-O5'-PA-O1A
41	Y4	501	GTP	C5'-O5'-PA-O2A
41	Y6	501	GTP	C5'-O5'-PA-O1A
41	Y6	501	GTP	C5'-O5'-PA-O2A
41	Z0	501	GTP	C5'-O5'-PA-O3A
41	Z0	501	GTP	C5'-O5'-PA-O2A
41	Z2	501	GTP	PB-O3A-PA-O5'
41	Z2	501	GTP	C5'-O5'-PA-O1A
41	Z2	501	GTP	C5'-O5'-PA-O2A
41	Z3	501	GTP	C5'-O5'-PA-O3A
41	Z3	501	GTP	C5'-O5'-PA-O2A
41	Z6	501	GTP	PB-O3A-PA-O5'
41	Z6	501	GTP	C5'-O5'-PA-O3A
41	Z6	501	GTP	C5'-O5'-PA-O1A
41	Z6	501	GTP	C5'-O5'-PA-O2A
41	Z7	501	GTP	C5'-O5'-PA-O1A
41	Z7	501	GTP	C5'-O5'-PA-O2A
41	0A	501	GTP	C5'-O5'-PA-O1A
41	0A	501	GTP	C5'-O5'-PA-O2A
41	0C	501	GTP	C5'-O5'-PA-O1A
41	0C	501	GTP	C5'-O5'-PA-O2A
41	0F	501	GTP	C5'-O5'-PA-O1A
41	0F	501	GTP	C5'-O5'-PA-O2A
41	0I	501	GTP	PB-O3A-PA-O5'
41	0I	501	GTP	C5'-O5'-PA-O1A
41	0I	501	GTP	C5'-O5'-PA-O2A
41	0I	501	GTP	C3'-C4'-C5'-O5'
41	0K	501	GTP	C5'-O5'-PA-O1A
41	0M	501	GTP	C5'-O5'-PA-O1A
41	0M	501	GTP	C5'-O5'-PA-O2A
41	0O	501	GTP	PB-O3A-PA-O5'
41	0O	501	GTP	C5'-O5'-PA-O1A
41	0O	501	GTP	C5'-O5'-PA-O2A
41	0O	501	GTP	C3'-C4'-C5'-O5'
41	0Q	501	GTP	C5'-O5'-PA-O1A
41	0Q	501	GTP	C3'-C4'-C5'-O5'
41	0S	501	GTP	C5'-O5'-PA-O1A
41	0S	501	GTP	C5'-O5'-PA-O2A
41	0V	501	GTP	C5'-O5'-PA-O1A
41	0V	501	GTP	C5'-O5'-PA-O2A
41	0Y	501	GTP	PB-O3A-PA-O5'
41	0Y	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
41	0Y	501	GTP	C5'-O5'-PA-O2A
41	1A	501	GTP	C5'-O5'-PA-O1A
41	1A	501	GTP	C5'-O5'-PA-O2A
41	1C	501	GTP	C5'-O5'-PA-O1A
41	1C	501	GTP	C5'-O5'-PA-O2A
41	1D	501	GTP	C5'-O5'-PA-O3A
41	1D	501	GTP	C5'-O5'-PA-O2A
41	1G	501	GTP	C5'-O5'-PA-O3A
41	1G	501	GTP	C5'-O5'-PA-O1A
41	1G	501	GTP	C5'-O5'-PA-O2A
41	1H	501	GTP	PB-O3A-PA-O5'
41	1H	501	GTP	C5'-O5'-PA-O3A
41	1H	501	GTP	C5'-O5'-PA-O1A
41	1H	501	GTP	C5'-O5'-PA-O2A
41	1L	501	GTP	C5'-O5'-PA-O1A
41	1N	501	GTP	C5'-O5'-PA-O1A
41	1N	501	GTP	C5'-O5'-PA-O2A
41	1Q	501	GTP	C5'-O5'-PA-O1A
41	1S	501	GTP	C5'-O5'-PA-O1A
41	1T	501	GTP	C5'-O5'-PA-O1A
41	1T	501	GTP	C5'-O5'-PA-O2A
41	1W	501	GTP	C5'-O5'-PA-O3A
41	1W	501	GTP	C5'-O5'-PA-O1A
41	1W	501	GTP	C5'-O5'-PA-O2A
41	1X	501	GTP	C5'-O5'-PA-O1A
41	1X	501	GTP	C5'-O5'-PA-O2A
41	2A	501	GTP	C5'-O5'-PA-O1A
41	2A	501	GTP	C5'-O5'-PA-O2A
41	2C	501	GTP	C5'-O5'-PA-O1A
41	2C	501	GTP	C5'-O5'-PA-O2A
41	2E	501	GTP	PB-O3A-PA-O5'
41	2E	501	GTP	C5'-O5'-PA-O1A
41	2E	501	GTP	C5'-O5'-PA-O2A
41	2G	501	GTP	C5'-O5'-PA-O1A
41	2G	501	GTP	C5'-O5'-PA-O2A
41	2I	501	GTP	C5'-O5'-PA-O1A
41	2I	501	GTP	C5'-O5'-PA-O2A
41	2K	501	GTP	C5'-O5'-PA-O1A
41	2K	501	GTP	C5'-O5'-PA-O2A
41	2L	501	GTP	C5'-O5'-PA-O1A
41	2L	501	GTP	C5'-O5'-PA-O2A
41	2N	501	GTP	PB-O3A-PA-O5'

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Mol	Chain	Res	Type	Atoms
41	2N	501	GTP	C5'-O5'-PA-O3A
41	2N	501	GTP	C5'-O5'-PA-O2A
41	2Q	501	GTP	PB-O3A-PA-O5'
41	2Q	501	GTP	C5'-O5'-PA-O1A
41	2Q	501	GTP	C5'-O5'-PA-O2A
41	2S	501	GTP	C5'-O5'-PA-O1A
41	2S	501	GTP	C5'-O5'-PA-O2A
41	2U	501	GTP	C5'-O5'-PA-O1A
41	2U	501	GTP	C5'-O5'-PA-O2A
41	2W	501	GTP	C5'-O5'-PA-O1A
41	2W	501	GTP	C5'-O5'-PA-O2A
41	2Y	501	GTP	C5'-O5'-PA-O1A
41	2Y	501	GTP	C5'-O5'-PA-O2A
41	3A	501	GTP	C5'-O5'-PA-O1A
41	3A	501	GTP	C3'-C4'-C5'-O5'
41	3C	501	GTP	C5'-O5'-PA-O1A
41	3D	501	GTP	C5'-O5'-PA-O1A
41	3G	501	GTP	PB-O3A-PA-O5'
41	3G	501	GTP	C5'-O5'-PA-O1A
41	3G	501	GTP	C5'-O5'-PA-O2A
41	3I	501	GTP	C5'-O5'-PA-O1A
41	3I	501	GTP	C5'-O5'-PA-O2A
41	3K	501	GTP	C5'-O5'-PA-O1A
41	3K	501	GTP	C5'-O5'-PA-O2A
41	3M	501	GTP	C5'-O5'-PA-O1A
41	3M	501	GTP	C5'-O5'-PA-O2A
41	3O	501	GTP	C5'-O5'-PA-O1A
41	3O	501	GTP	C5'-O5'-PA-O2A
41	3P	501	GTP	PB-O3A-PA-O5'
41	3P	501	GTP	C5'-O5'-PA-O3A
41	3P	501	GTP	C5'-O5'-PA-O1A
41	3P	501	GTP	C5'-O5'-PA-O2A
41	3P	501	GTP	O4'-C4'-C5'-O5'
41	3P	501	GTP	C3'-C4'-C5'-O5'
41	3S	501	GTP	C5'-O5'-PA-O1A
41	3T	501	GTP	C5'-O5'-PA-O1A
41	3T	501	GTP	C5'-O5'-PA-O2A
39	D4	501	GDP	O4'-C4'-C5'-O5'
39	D6	501	GDP	O4'-C4'-C5'-O5'
39	M4	502	GDP	C3'-C4'-C5'-O5'
39	O2	502	GDP	C3'-C4'-C5'-O5'
39	Q4	502	GDP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
39	R4	502	GDP	C3'-C4'-C5'-O5'
39	S2	502	GDP	O4'-C4'-C5'-O5'
39	S6	501	GDP	C3'-C4'-C5'-O5'
39	T4	502	GDP	O4'-C4'-C5'-O5'
39	0C	502	GDP	O4'-C4'-C5'-O5'
39	0U	501	GDP	O4'-C4'-C5'-O5'
39	0U	501	GDP	C3'-C4'-C5'-O5'
39	2S	502	GDP	C3'-C4'-C5'-O5'
39	3A	502	GDP	C3'-C4'-C5'-O5'
39	3M	502	GDP	O4'-C4'-C5'-O5'
39	3O	502	GDP	C3'-C4'-C5'-O5'
39	3S	502	GDP	C3'-C4'-C5'-O5'
41	A9	501	GTP	O4'-C4'-C5'-O5'
41	A9	501	GTP	C3'-C4'-C5'-O5'
41	B2	501	GTP	C3'-C4'-C5'-O5'
41	I5	501	GTP	O4'-C4'-C5'-O5'
41	O0	501	GTP	C3'-C4'-C5'-O5'
41	O6	501	GTP	C3'-C4'-C5'-O5'
41	U2	501	GTP	O4'-C4'-C5'-O5'
41	U2	501	GTP	C3'-C4'-C5'-O5'
41	U9	501	GTP	C3'-C4'-C5'-O5'
41	W8	501	GTP	C3'-C4'-C5'-O5'
41	X0	501	GTP	O4'-C4'-C5'-O5'
41	X6	501	GTP	O4'-C4'-C5'-O5'
41	0I	501	GTP	O4'-C4'-C5'-O5'
41	0O	501	GTP	O4'-C4'-C5'-O5'
41	0Q	501	GTP	O4'-C4'-C5'-O5'
41	1L	501	GTP	C3'-C4'-C5'-O5'
41	2Q	501	GTP	C3'-C4'-C5'-O5'
41	3A	501	GTP	O4'-C4'-C5'-O5'
39	D0	501	GDP	C3'-C4'-C5'-O5'
39	M4	502	GDP	O4'-C4'-C5'-O5'
39	O2	502	GDP	O4'-C4'-C5'-O5'
39	R4	502	GDP	O4'-C4'-C5'-O5'
39	R8	502	GDP	C3'-C4'-C5'-O5'
39	S6	501	GDP	O4'-C4'-C5'-O5'
39	3A	502	GDP	O4'-C4'-C5'-O5'
39	3S	502	GDP	O4'-C4'-C5'-O5'
41	B2	501	GTP	O4'-C4'-C5'-O5'
41	I1	501	GTP	O4'-C4'-C5'-O5'
41	I1	501	GTP	C3'-C4'-C5'-O5'
41	J8	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
41	O0	501	GTP	O4'-C4'-C5'-O5'
41	O6	501	GTP	O4'-C4'-C5'-O5'
41	U9	501	GTP	O4'-C4'-C5'-O5'
41	W0	501	GTP	O4'-C4'-C5'-O5'
41	W0	501	GTP	C3'-C4'-C5'-O5'
41	W8	501	GTP	O4'-C4'-C5'-O5'
41	0M	501	GTP	O4'-C4'-C5'-O5'
41	0S	501	GTP	O4'-C4'-C5'-O5'
41	0S	501	GTP	C3'-C4'-C5'-O5'
41	1L	501	GTP	O4'-C4'-C5'-O5'
41	2Q	501	GTP	O4'-C4'-C5'-O5'
41	3D	501	GTP	O4'-C4'-C5'-O5'
39	N8	502	GDP	C3'-C4'-C5'-O5'
39	Y6	502	GDP	C3'-C4'-C5'-O5'
39	2S	502	GDP	O4'-C4'-C5'-O5'
41	J8	501	GTP	O4'-C4'-C5'-O5'
41	Y4	501	GTP	C3'-C4'-C5'-O5'
41	0M	501	GTP	C3'-C4'-C5'-O5'
41	2E	501	GTP	O4'-C4'-C5'-O5'
41	2E	501	GTP	C3'-C4'-C5'-O5'
41	3D	501	GTP	C3'-C4'-C5'-O5'
39	C6	501	GDP	C3'-C4'-C5'-O5'
39	H4	501	GDP	C3'-C4'-C5'-O5'
39	J2	502	GDP	C3'-C4'-C5'-O5'
39	L6	502	GDP	C3'-C4'-C5'-O5'
39	M6	502	GDP	C3'-C4'-C5'-O5'
39	O4	502	GDP	C3'-C4'-C5'-O5'
39	U4	502	GDP	C3'-C4'-C5'-O5'
39	2W	502	GDP	C3'-C4'-C5'-O5'
39	3O	502	GDP	O4'-C4'-C5'-O5'
41	C0	501	GTP	C3'-C4'-C5'-O5'
41	F5	501	GTP	C3'-C4'-C5'-O5'
41	I4	501	GTP	C3'-C4'-C5'-O5'
41	K0	501	GTP	C3'-C4'-C5'-O5'
41	M0	501	GTP	C3'-C4'-C5'-O5'
41	N0	501	GTP	C3'-C4'-C5'-O5'
41	N3	501	GTP	C3'-C4'-C5'-O5'
41	O4	501	GTP	C3'-C4'-C5'-O5'
41	Q4	501	GTP	C3'-C4'-C5'-O5'
41	U4	501	GTP	C3'-C4'-C5'-O5'
41	V8	501	GTP	C3'-C4'-C5'-O5'
41	Y0	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
41	Y1	501	GTP	C3'-C4'-C5'-O5'
41	Z3	501	GTP	C3'-C4'-C5'-O5'
41	Z6	501	GTP	C3'-C4'-C5'-O5'
41	Z7	501	GTP	C3'-C4'-C5'-O5'
41	0A	501	GTP	C3'-C4'-C5'-O5'
41	0F	501	GTP	C3'-C4'-C5'-O5'
41	0Y	501	GTP	C3'-C4'-C5'-O5'
41	1T	501	GTP	C3'-C4'-C5'-O5'
41	3G	501	GTP	C3'-C4'-C5'-O5'
41	3T	501	GTP	C3'-C4'-C5'-O5'
39	A3	501	GDP	C3'-C4'-C5'-O5'
39	B8	501	GDP	C3'-C4'-C5'-O5'
39	R8	502	GDP	O4'-C4'-C5'-O5'
39	X4	502	GDP	C3'-C4'-C5'-O5'
39	X6	502	GDP	C3'-C4'-C5'-O5'
39	Y6	502	GDP	O4'-C4'-C5'-O5'
39	3I	502	GDP	C3'-C4'-C5'-O5'
41	F5	501	GTP	O4'-C4'-C5'-O5'
41	H3	501	GTP	C3'-C4'-C5'-O5'
41	I0	501	GTP	C3'-C4'-C5'-O5'
41	K4	501	GTP	C3'-C4'-C5'-O5'
41	L4	501	GTP	C3'-C4'-C5'-O5'
41	M2	501	GTP	C3'-C4'-C5'-O5'
41	N3	501	GTP	O4'-C4'-C5'-O5'
41	Q4	501	GTP	O4'-C4'-C5'-O5'
41	R4	501	GTP	C3'-C4'-C5'-O5'
41	S0	501	GTP	C3'-C4'-C5'-O5'
41	Y4	501	GTP	O4'-C4'-C5'-O5'
41	Y6	501	GTP	C3'-C4'-C5'-O5'
41	Z3	501	GTP	O4'-C4'-C5'-O5'
41	Z7	501	GTP	O4'-C4'-C5'-O5'
41	0F	501	GTP	O4'-C4'-C5'-O5'
41	0V	501	GTP	C3'-C4'-C5'-O5'
41	0Y	501	GTP	O4'-C4'-C5'-O5'
41	1A	501	GTP	C3'-C4'-C5'-O5'
41	1N	501	GTP	C3'-C4'-C5'-O5'
41	1Q	501	GTP	C3'-C4'-C5'-O5'
41	2S	501	GTP	C3'-C4'-C5'-O5'
39	H4	501	GDP	O4'-C4'-C5'-O5'
39	L6	502	GDP	O4'-C4'-C5'-O5'
39	N8	502	GDP	O4'-C4'-C5'-O5'
39	V4	501	GDP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
39	Y4	502	GDP	C3'-C4'-C5'-O5'
39	2G	502	GDP	C3'-C4'-C5'-O5'
39	2I	502	GDP	C3'-C4'-C5'-O5'
39	2U	502	GDP	C3'-C4'-C5'-O5'
41	A1	501	GTP	C3'-C4'-C5'-O5'
41	C0	501	GTP	O4'-C4'-C5'-O5'
41	G4	501	GTP	C3'-C4'-C5'-O5'
41	J2	501	GTP	C3'-C4'-C5'-O5'
41	K0	501	GTP	O4'-C4'-C5'-O5'
41	M0	501	GTP	O4'-C4'-C5'-O5'
41	M4	501	GTP	C3'-C4'-C5'-O5'
41	M7	501	GTP	C3'-C4'-C5'-O5'
41	N8	501	GTP	C3'-C4'-C5'-O5'
41	O8	501	GTP	C3'-C4'-C5'-O5'
41	U4	501	GTP	O4'-C4'-C5'-O5'
41	U7	501	GTP	C3'-C4'-C5'-O5'
41	Y0	501	GTP	O4'-C4'-C5'-O5'
41	Z0	501	GTP	C3'-C4'-C5'-O5'
41	0K	501	GTP	C3'-C4'-C5'-O5'
41	1H	501	GTP	C3'-C4'-C5'-O5'
41	2N	501	GTP	C3'-C4'-C5'-O5'
41	2U	501	GTP	C3'-C4'-C5'-O5'
41	2W	501	GTP	C3'-C4'-C5'-O5'
39	A3	501	GDP	PA-O3A-PB-O1B
39	E4	502	GDP	PA-O3A-PB-O1B
39	G2	501	GDP	PA-O3A-PB-O1B
39	K8	501	GDP	PA-O3A-PB-O1B
39	L6	502	GDP	PA-O3A-PB-O1B
39	R6	503	GDP	PA-O3A-PB-O1B
39	U4	502	GDP	PA-O3A-PB-O1B
39	V6	501	GDP	PA-O3A-PB-O1B
39	2S	502	GDP	PA-O3A-PB-O1B
39	3G	502	GDP	PA-O3A-PB-O1B
39	3I	502	GDP	PA-O3A-PB-O1B
41	E4	501	GTP	PB-O3A-PA-O1A
41	G9	501	GTP	PA-O3A-PB-O1B
41	P4	501	GTP	PA-O3A-PB-O1B
41	Z3	501	GTP	PA-O3A-PB-O1B
39	C6	501	GDP	O4'-C4'-C5'-O5'
39	N6	503	GDP	C3'-C4'-C5'-O5'
39	T6	502	GDP	C3'-C4'-C5'-O5'
41	B0	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
41	F1	501	GTP	C3'-C4'-C5'-O5'
41	G9	501	GTP	C3'-C4'-C5'-O5'
41	I4	501	GTP	O4'-C4'-C5'-O5'
41	J0	501	GTP	C3'-C4'-C5'-O5'
41	R0	501	GTP	C3'-C4'-C5'-O5'
41	Y1	501	GTP	O4'-C4'-C5'-O5'
41	Z6	501	GTP	O4'-C4'-C5'-O5'
41	1G	501	GTP	C3'-C4'-C5'-O5'
41	3G	501	GTP	O4'-C4'-C5'-O5'
41	3T	501	GTP	O4'-C4'-C5'-O5'
41	A4	501	GTP	C4'-C5'-O5'-PA
41	B5	501	GTP	C4'-C5'-O5'-PA
41	J2	501	GTP	C4'-C5'-O5'-PA
41	N1	501	GTP	C4'-C5'-O5'-PA
41	R4	501	GTP	C4'-C5'-O5'-PA
41	R6	501	GTP	C4'-C5'-O5'-PA
41	V8	501	GTP	C4'-C5'-O5'-PA
41	W0	501	GTP	C4'-C5'-O5'-PA
41	W2	501	GTP	C4'-C5'-O5'-PA
41	3G	501	GTP	C4'-C5'-O5'-PA
41	3M	501	GTP	C4'-C5'-O5'-PA
41	3O	501	GTP	C4'-C5'-O5'-PA
41	3P	501	GTP	C4'-C5'-O5'-PA
39	J2	502	GDP	O4'-C4'-C5'-O5'
41	I0	501	GTP	O4'-C4'-C5'-O5'
41	N0	501	GTP	O4'-C4'-C5'-O5'
41	O4	501	GTP	O4'-C4'-C5'-O5'
41	R4	501	GTP	O4'-C4'-C5'-O5'
41	0A	501	GTP	O4'-C4'-C5'-O5'
41	1N	501	GTP	O4'-C4'-C5'-O5'
41	1T	501	GTP	O4'-C4'-C5'-O5'
41	3	501	GTP	C4'-C5'-O5'-PA
41	A1	501	GTP	C4'-C5'-O5'-PA
41	A9	501	GTP	C4'-C5'-O5'-PA
41	B0	501	GTP	C4'-C5'-O5'-PA
41	B2	501	GTP	C4'-C5'-O5'-PA
41	B7	501	GTP	C4'-C5'-O5'-PA
41	C0	501	GTP	C4'-C5'-O5'-PA
41	C1	501	GTP	C4'-C5'-O5'-PA
41	C9	501	GTP	C4'-C5'-O5'-PA
41	D3	501	GTP	C4'-C5'-O5'-PA
41	E1	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
41	E6	501	GTP	C4'-C5'-O5'-PA
41	F1	501	GTP	C4'-C5'-O5'-PA
41	H8	501	GTP	C4'-C5'-O5'-PA
41	I0	501	GTP	C4'-C5'-O5'-PA
41	I1	501	GTP	C4'-C5'-O5'-PA
41	I8	501	GTP	C4'-C5'-O5'-PA
41	J0	501	GTP	C4'-C5'-O5'-PA
41	J6	501	GTP	C4'-C5'-O5'-PA
41	K0	501	GTP	C4'-C5'-O5'-PA
41	K9	501	GTP	C4'-C5'-O5'-PA
41	M0	501	GTP	C4'-C5'-O5'-PA
41	M2	501	GTP	C4'-C5'-O5'-PA
41	M6	501	GTP	C4'-C5'-O5'-PA
41	M7	501	GTP	C4'-C5'-O5'-PA
41	N0	501	GTP	C4'-C5'-O5'-PA
41	O2	501	GTP	C4'-C5'-O5'-PA
41	Q6	501	GTP	C4'-C5'-O5'-PA
41	R2	501	GTP	C4'-C5'-O5'-PA
41	S2	501	GTP	C4'-C5'-O5'-PA
41	T2	501	GTP	C4'-C5'-O5'-PA
41	T6	501	GTP	C4'-C5'-O5'-PA
41	U2	501	GTP	C4'-C5'-O5'-PA
41	W4	501	GTP	C4'-C5'-O5'-PA
41	W5	501	GTP	C4'-C5'-O5'-PA
41	W8	501	GTP	C4'-C5'-O5'-PA
41	X0	501	GTP	C4'-C5'-O5'-PA
41	Y0	501	GTP	C4'-C5'-O5'-PA
41	Z0	501	GTP	C4'-C5'-O5'-PA
41	2W	501	GTP	C4'-C5'-O5'-PA
41	2Y	501	GTP	C4'-C5'-O5'-PA
41	3I	501	GTP	C4'-C5'-O5'-PA
41	B7	501	GTP	PB-O3A-PA-O5'
41	G1	501	GTP	PB-O3A-PA-O5'
41	G7	501	GTP	PB-O3A-PA-O5'
41	G9	501	GTP	PB-O3A-PA-O5'
41	H3	501	GTP	PB-O3A-PA-O5'
41	H8	501	GTP	PB-O3A-PA-O5'
41	I1	501	GTP	PB-O3A-PA-O5'
41	L6	501	GTP	PB-O3A-PA-O5'
41	N0	501	GTP	PB-O3A-PA-O5'
41	N6	501	GTP	PB-O3A-PA-O5'
41	P4	501	GTP	PB-O3A-PA-O5'

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Mol	Chain	Res	Type	Atoms
41	P6	501	GTP	PB-O3A-PA-O5'
41	P8	501	GTP	PB-O3A-PA-O5'
41	R4	501	GTP	PB-O3A-PA-O5'
41	S2	501	GTP	PB-O3A-PA-O5'
41	T8	501	GTP	PB-O3A-PA-O5'
41	W0	501	GTP	PB-O3A-PA-O5'
41	X7	501	GTP	PB-O3A-PA-O5'
41	Z0	501	GTP	PB-O3A-PA-O5'
41	Z3	501	GTP	PB-O3A-PA-O5'
41	0A	501	GTP	PB-O3A-PA-O5'
41	0V	501	GTP	PB-O3A-PA-O5'
41	1A	501	GTP	PB-O3A-PA-O5'
41	1C	501	GTP	PB-O3A-PA-O5'
41	1D	501	GTP	PB-O3A-PA-O5'
41	1G	501	GTP	PB-O3A-PA-O5'
41	1W	501	GTP	PB-O3A-PA-O5'
41	2C	501	GTP	PB-O3A-PA-O5'
41	2L	501	GTP	PB-O3A-PA-O5'
39	T0	501	GDP	C3'-C4'-C5'-O5'
41	G4	501	GTP	O4'-C4'-C5'-O5'
41	L7	501	GTP	C3'-C4'-C5'-O5'
41	V8	501	GTP	O4'-C4'-C5'-O5'
41	0V	501	GTP	O4'-C4'-C5'-O5'
39	O0	503	GDP	PA-O3A-PB-O1B
39	Q6	502	GDP	PA-O3A-PB-O1B
39	S2	502	GDP	PA-O3A-PB-O1B
39	3S	502	GDP	PA-O3A-PB-O1B
41	4	501	GTP	C4'-C5'-O5'-PA
41	D7	501	GTP	C4'-C5'-O5'-PA
41	E8	501	GTP	C4'-C5'-O5'-PA
41	F3	501	GTP	C4'-C5'-O5'-PA
41	F5	501	GTP	C4'-C5'-O5'-PA
41	G9	501	GTP	C4'-C5'-O5'-PA
41	L6	501	GTP	C4'-C5'-O5'-PA
41	S8	501	GTP	C4'-C5'-O5'-PA
41	T8	501	GTP	C4'-C5'-O5'-PA
41	U7	501	GTP	C4'-C5'-O5'-PA
41	U9	501	GTP	C4'-C5'-O5'-PA
41	V2	501	GTP	C4'-C5'-O5'-PA
41	Y4	501	GTP	C4'-C5'-O5'-PA
41	Z7	501	GTP	C4'-C5'-O5'-PA
41	0V	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
41	1A	501	GTP	C4'-C5'-O5'-PA
41	1D	501	GTP	C4'-C5'-O5'-PA
41	1H	501	GTP	C4'-C5'-O5'-PA
41	1L	501	GTP	C4'-C5'-O5'-PA
41	1N	501	GTP	C4'-C5'-O5'-PA
41	2A	501	GTP	C4'-C5'-O5'-PA
41	2K	501	GTP	C4'-C5'-O5'-PA
41	2L	501	GTP	C4'-C5'-O5'-PA
41	3T	501	GTP	C4'-C5'-O5'-PA
39	E2	501	GDP	PA-O3A-PB-O2B
39	J2	502	GDP	PA-O3A-PB-O2B
39	J4	503	GDP	PA-O3A-PB-O2B
39	K8	501	GDP	PA-O3A-PB-O3B
39	M8	501	GDP	PA-O3A-PB-O2B
39	N8	502	GDP	PA-O3A-PB-O2B
39	R0	502	GDP	PA-O3A-PB-O2B
39	R6	503	GDP	PA-O3A-PB-O3B
39	S8	502	GDP	PA-O3A-PB-O2B
39	U2	502	GDP	PA-O3A-PB-O2B
39	U4	502	GDP	PA-O3A-PB-O3B
39	W0	502	GDP	PA-O3A-PB-O2B
39	X2	501	GDP	PA-O3A-PB-O2B
39	Y8	501	GDP	PA-O3A-PB-O2B
39	3G	502	GDP	PA-O3A-PB-O3B
39	3Q	501	GDP	PA-O3A-PB-O2B
39	F2	501	GDP	C5'-O5'-PA-O3A
39	G2	501	GDP	C5'-O5'-PA-O3A
39	K8	501	GDP	C5'-O5'-PA-O3A
39	O4	502	GDP	C5'-O5'-PA-O3A
39	W4	502	GDP	C5'-O5'-PA-O3A
39	1K	501	GDP	C5'-O5'-PA-O3A
39	3C	502	GDP	C5'-O5'-PA-O3A
39	3M	502	GDP	C5'-O5'-PA-O3A
41	7	501	GTP	C5'-O5'-PA-O3A
41	8	501	GTP	C5'-O5'-PA-O3A
41	D3	501	GTP	C5'-O5'-PA-O3A
41	E1	501	GTP	C5'-O5'-PA-O3A
41	F3	501	GTP	C5'-O5'-PA-O3A
41	G7	501	GTP	C5'-O5'-PA-O3A
41	H3	501	GTP	C5'-O5'-PA-O3A
41	I0	501	GTP	C5'-O5'-PA-O3A
41	I4	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
41	I5	501	GTP	C5'-O5'-PA-O3A
41	K0	501	GTP	C5'-O5'-PA-O3A
41	K4	501	GTP	C5'-O5'-PA-O3A
41	K6	501	GTP	C5'-O5'-PA-O3A
41	M0	501	GTP	C5'-O5'-PA-O3A
41	N8	501	GTP	C5'-O5'-PA-O3A
41	O4	501	GTP	C5'-O5'-PA-O3A
41	O6	501	GTP	C5'-O5'-PA-O3A
41	U4	501	GTP	C5'-O5'-PA-O3A
41	U7	501	GTP	C5'-O5'-PA-O3A
41	V3	501	GTP	C5'-O5'-PA-O3A
41	X6	501	GTP	C5'-O5'-PA-O3A
41	Y0	501	GTP	C5'-O5'-PA-O3A
41	Z2	501	GTP	C5'-O5'-PA-O3A
41	0K	501	GTP	C5'-O5'-PA-O3A
41	0Q	501	GTP	C5'-O5'-PA-O3A
41	0V	501	GTP	C5'-O5'-PA-O3A
41	1A	501	GTP	C5'-O5'-PA-O3A
41	1L	501	GTP	C5'-O5'-PA-O3A
41	1S	501	GTP	C5'-O5'-PA-O3A
41	2C	501	GTP	C5'-O5'-PA-O3A
41	2E	501	GTP	C5'-O5'-PA-O3A
41	2I	501	GTP	C5'-O5'-PA-O3A
41	3A	501	GTP	C5'-O5'-PA-O3A
41	3C	501	GTP	C5'-O5'-PA-O3A
41	3D	501	GTP	C5'-O5'-PA-O3A
41	3O	501	GTP	C5'-O5'-PA-O3A
41	3S	501	GTP	C5'-O5'-PA-O3A
39	E4	502	GDP	C3'-C4'-C5'-O5'
39	G6	501	GDP	C3'-C4'-C5'-O5'
39	O4	502	GDP	O4'-C4'-C5'-O5'
39	U4	502	GDP	O4'-C4'-C5'-O5'
39	V6	501	GDP	C3'-C4'-C5'-O5'
39	2W	502	GDP	O4'-C4'-C5'-O5'
41	D7	501	GTP	C3'-C4'-C5'-O5'
41	H3	501	GTP	O4'-C4'-C5'-O5'
41	H6	501	GTP	C3'-C4'-C5'-O5'
41	I8	501	GTP	C3'-C4'-C5'-O5'
41	M2	501	GTP	O4'-C4'-C5'-O5'
41	S0	501	GTP	O4'-C4'-C5'-O5'
41	S8	501	GTP	C3'-C4'-C5'-O5'
41	U6	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
41	Z2	501	GTP	C3'-C4'-C5'-O5'
41	1A	501	GTP	O4'-C4'-C5'-O5'
41	1Q	501	GTP	O4'-C4'-C5'-O5'
41	2S	501	GTP	O4'-C4'-C5'-O5'
41	8	501	GTP	PA-O3A-PB-O2B
41	A1	501	GTP	PA-O3A-PB-O2B
41	B2	501	GTP	PB-O3A-PA-O1A
41	C5	501	GTP	PB-O3A-PA-O2A
41	C9	501	GTP	PB-O3A-PA-O2A
41	E8	501	GTP	PA-O3A-PB-O2B
41	F3	501	GTP	PA-O3A-PB-O2B
41	F5	501	GTP	PA-O3A-PB-O2B
41	F8	501	GTP	PA-O3A-PB-O1B
41	G4	501	GTP	PA-O3A-PB-O2B
41	G7	501	GTP	PA-O3A-PB-O2B
41	H3	501	GTP	PA-O3A-PB-O2B
41	H6	501	GTP	PA-O3A-PB-O2B
41	I0	501	GTP	PA-O3A-PB-O2B
41	I1	501	GTP	PA-O3A-PB-O2B
41	I5	501	GTP	PA-O3A-PB-O2B
41	I8	501	GTP	PA-O3A-PB-O2B
41	K1	501	GTP	PA-O3A-PB-O2B
41	K9	501	GTP	PA-O3A-PB-O2B
41	L7	501	GTP	PA-O3A-PB-O2B
41	N0	501	GTP	PA-O3A-PB-O2B
41	N1	501	GTP	PA-O3A-PB-O2B
41	N6	501	GTP	PA-O3A-PB-O2B
41	P6	501	GTP	PA-O3A-PB-O2B
41	R4	501	GTP	PA-O3A-PB-O2B
41	S2	501	GTP	PA-O3A-PB-O2B
41	T6	501	GTP	PA-O3A-PB-O2B
41	U2	501	GTP	PA-O3A-PB-O2B
41	V8	501	GTP	PA-O3A-PB-O2B
41	W2	501	GTP	PA-O3A-PB-O2B
41	Z6	501	GTP	PA-O3A-PB-O2B
41	Z7	501	GTP	PA-O3A-PB-O2B
41	0A	501	GTP	PA-O3A-PB-O2B
41	0F	501	GTP	PA-O3A-PB-O2B
41	0I	501	GTP	PA-O3A-PB-O2B
41	0M	501	GTP	PA-O3A-PB-O2B
41	0O	501	GTP	PA-O3A-PB-O2B
41	0S	501	GTP	PA-O3A-PB-O2B

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Mol	Chain	Res	Type	Atoms
41	0V	501	GTP	PA-O3A-PB-O2B
41	1C	501	GTP	PA-O3A-PB-O2B
41	1W	501	GTP	PA-O3A-PB-O2B
41	2E	501	GTP	PA-O3A-PB-O2B
41	2L	501	GTP	PA-O3A-PB-O2B
41	2N	501	GTP	PA-O3A-PB-O2B
41	2Q	501	GTP	PA-O3A-PB-O2B
41	3G	501	GTP	PA-O3A-PB-O2B
41	3P	501	GTP	PA-O3A-PB-O2B
41	8	501	GTP	C4'-C5'-O5'-PA
41	A2	501	GTP	C4'-C5'-O5'-PA
41	C5	501	GTP	C4'-C5'-O5'-PA
41	D1	501	GTP	C4'-C5'-O5'-PA
41	F0	501	GTP	C4'-C5'-O5'-PA
41	F8	501	GTP	C4'-C5'-O5'-PA
41	G0	501	GTP	C4'-C5'-O5'-PA
41	G4	501	GTP	C4'-C5'-O5'-PA
41	G5	501	GTP	C4'-C5'-O5'-PA
41	H2	501	GTP	C4'-C5'-O5'-PA
41	H6	501	GTP	C4'-C5'-O5'-PA
41	I4	501	GTP	C4'-C5'-O5'-PA
41	I5	501	GTP	C4'-C5'-O5'-PA
41	J4	501	GTP	C4'-C5'-O5'-PA
41	J8	501	GTP	C4'-C5'-O5'-PA
41	K4	501	GTP	C4'-C5'-O5'-PA
41	K6	501	GTP	C4'-C5'-O5'-PA
41	K7	501	GTP	C4'-C5'-O5'-PA
41	L2	501	GTP	C4'-C5'-O5'-PA
41	L4	501	GTP	C4'-C5'-O5'-PA
41	L7	501	GTP	C4'-C5'-O5'-PA
41	M4	501	GTP	C4'-C5'-O5'-PA
41	N3	501	GTP	C4'-C5'-O5'-PA
41	N6	501	GTP	C4'-C5'-O5'-PA
41	N8	501	GTP	C4'-C5'-O5'-PA
41	O0	501	GTP	C4'-C5'-O5'-PA
41	O4	501	GTP	C4'-C5'-O5'-PA
41	O6	501	GTP	C4'-C5'-O5'-PA
41	O8	501	GTP	C4'-C5'-O5'-PA
41	O9	501	GTP	C4'-C5'-O5'-PA
41	P4	501	GTP	C4'-C5'-O5'-PA
41	P6	501	GTP	C4'-C5'-O5'-PA
41	P8	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
41	P9	501	GTP	C4'-C5'-O5'-PA
41	Q2	501	GTP	C4'-C5'-O5'-PA
41	Q4	501	GTP	C4'-C5'-O5'-PA
41	R0	501	GTP	C4'-C5'-O5'-PA
41	R8	501	GTP	C4'-C5'-O5'-PA
41	S0	501	GTP	C4'-C5'-O5'-PA
41	S5	501	GTP	C4'-C5'-O5'-PA
41	T4	501	GTP	C4'-C5'-O5'-PA
41	U4	501	GTP	C4'-C5'-O5'-PA
41	U6	501	GTP	C4'-C5'-O5'-PA
41	V3	501	GTP	C4'-C5'-O5'-PA
41	X4	501	GTP	C4'-C5'-O5'-PA
41	X6	501	GTP	C4'-C5'-O5'-PA
41	X7	501	GTP	C4'-C5'-O5'-PA
41	Y6	501	GTP	C4'-C5'-O5'-PA
41	Z2	501	GTP	C4'-C5'-O5'-PA
41	Z3	501	GTP	C4'-C5'-O5'-PA
41	Z6	501	GTP	C4'-C5'-O5'-PA
41	0A	501	GTP	C4'-C5'-O5'-PA
41	0C	501	GTP	C4'-C5'-O5'-PA
41	0F	501	GTP	C4'-C5'-O5'-PA
41	0I	501	GTP	C4'-C5'-O5'-PA
41	0K	501	GTP	C4'-C5'-O5'-PA
41	0M	501	GTP	C4'-C5'-O5'-PA
41	0O	501	GTP	C4'-C5'-O5'-PA
41	0Q	501	GTP	C4'-C5'-O5'-PA
41	0S	501	GTP	C4'-C5'-O5'-PA
41	0Y	501	GTP	C4'-C5'-O5'-PA
41	1C	501	GTP	C4'-C5'-O5'-PA
41	1G	501	GTP	C4'-C5'-O5'-PA
41	1Q	501	GTP	C4'-C5'-O5'-PA
41	1S	501	GTP	C4'-C5'-O5'-PA
41	1T	501	GTP	C4'-C5'-O5'-PA
41	1W	501	GTP	C4'-C5'-O5'-PA
41	1X	501	GTP	C4'-C5'-O5'-PA
41	2C	501	GTP	C4'-C5'-O5'-PA
41	2E	501	GTP	C4'-C5'-O5'-PA
41	2G	501	GTP	C4'-C5'-O5'-PA
41	2I	501	GTP	C4'-C5'-O5'-PA
41	2N	501	GTP	C4'-C5'-O5'-PA
41	2Q	501	GTP	C4'-C5'-O5'-PA
41	2U	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
41	3A	501	GTP	C4'-C5'-O5'-PA
41	3C	501	GTP	C4'-C5'-O5'-PA
41	3D	501	GTP	C4'-C5'-O5'-PA
41	3K	501	GTP	C4'-C5'-O5'-PA
41	3S	501	GTP	C4'-C5'-O5'-PA
39	3	502	GDP	C5'-O5'-PA-O1A
39	5	501	GDP	C5'-O5'-PA-O1A
39	7	502	GDP	C5'-O5'-PA-O1A
39	A9	502	GDP	C5'-O5'-PA-O1A
39	B3	501	GDP	C5'-O5'-PA-O1A
39	B5	502	GDP	C5'-O5'-PA-O1A
39	C6	501	GDP	C5'-O5'-PA-O1A
39	E6	502	GDP	C5'-O5'-PA-O1A
39	K6	502	GDP	C5'-O5'-PA-O1A
39	L6	502	GDP	C5'-O5'-PA-O1A
39	M4	502	GDP	C5'-O5'-PA-O1A
39	Q6	502	GDP	C5'-O5'-PA-O1A
39	T4	502	GDP	C5'-O5'-PA-O1A
39	0U	501	GDP	C5'-O5'-PA-O1A
39	2G	502	GDP	C5'-O5'-PA-O1A
39	2Y	502	GDP	C5'-O5'-PA-O1A
39	3A	502	GDP	C5'-O5'-PA-O1A
41	7	501	GTP	C5'-O5'-PA-O2A
41	C0	501	GTP	C5'-O5'-PA-O2A
41	F5	501	GTP	C5'-O5'-PA-O2A
41	I4	501	GTP	C5'-O5'-PA-O2A
41	J4	501	GTP	C5'-O5'-PA-O2A
41	J8	501	GTP	C5'-O5'-PA-O2A
41	N6	501	GTP	C5'-O5'-PA-O1A
41	U4	501	GTP	C5'-O5'-PA-O2A
41	U6	501	GTP	C5'-O5'-PA-O2A
41	U7	501	GTP	C5'-O5'-PA-O2A
41	V3	501	GTP	C5'-O5'-PA-O2A
41	X4	501	GTP	C5'-O5'-PA-O2A
41	0K	501	GTP	C5'-O5'-PA-O2A
41	0Q	501	GTP	C5'-O5'-PA-O2A
41	1L	501	GTP	C5'-O5'-PA-O2A
41	1Q	501	GTP	C5'-O5'-PA-O2A
41	1S	501	GTP	C5'-O5'-PA-O2A
41	3A	501	GTP	C5'-O5'-PA-O2A
41	3C	501	GTP	C5'-O5'-PA-O2A
41	3D	501	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
41	3S	501	GTP	C5'-O5'-PA-O2A
39	2	501	GDP	C3'-C4'-C5'-O5'
39	A7	501	GDP	C3'-C4'-C5'-O5'
39	B3	501	GDP	C3'-C4'-C5'-O5'
39	F6	501	GDP	C3'-C4'-C5'-O5'
39	1K	501	GDP	C3'-C4'-C5'-O5'
39	1U	501	GDP	C3'-C4'-C5'-O5'
41	7	501	GTP	C3'-C4'-C5'-O5'
41	B5	501	GTP	C3'-C4'-C5'-O5'
41	E6	501	GTP	C3'-C4'-C5'-O5'
41	H2	501	GTP	C3'-C4'-C5'-O5'
41	J2	501	GTP	O4'-C4'-C5'-O5'
41	K1	501	GTP	C3'-C4'-C5'-O5'
41	K6	501	GTP	C3'-C4'-C5'-O5'
41	L4	501	GTP	O4'-C4'-C5'-O5'
41	M6	501	GTP	C3'-C4'-C5'-O5'
41	N1	501	GTP	C3'-C4'-C5'-O5'
41	W2	501	GTP	C3'-C4'-C5'-O5'
41	Z0	501	GTP	O4'-C4'-C5'-O5'
41	1D	501	GTP	C3'-C4'-C5'-O5'
41	2C	501	GTP	C3'-C4'-C5'-O5'
41	2L	501	GTP	C3'-C4'-C5'-O5'
41	2Y	501	GTP	C3'-C4'-C5'-O5'
41	3C	501	GTP	C3'-C4'-C5'-O5'
41	3I	501	GTP	C3'-C4'-C5'-O5'
41	7	501	GTP	C4'-C5'-O5'-PA
41	G1	501	GTP	C4'-C5'-O5'-PA
41	G7	501	GTP	C4'-C5'-O5'-PA
41	H3	501	GTP	C4'-C5'-O5'-PA
41	K1	501	GTP	C4'-C5'-O5'-PA
41	Y1	501	GTP	C4'-C5'-O5'-PA
41	2S	501	GTP	C4'-C5'-O5'-PA
39	A3	501	GDP	O4'-C4'-C5'-O5'
39	B8	501	GDP	O4'-C4'-C5'-O5'
39	H8	503	GDP	C3'-C4'-C5'-O5'
39	M6	502	GDP	O4'-C4'-C5'-O5'
39	U8	501	GDP	C3'-C4'-C5'-O5'
39	W0	502	GDP	C3'-C4'-C5'-O5'
39	X6	502	GDP	O4'-C4'-C5'-O5'
39	X8	501	GDP	C3'-C4'-C5'-O5'
39	Z0	502	GDP	C3'-C4'-C5'-O5'
39	0M	502	GDP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
39	0Q	502	GDP	C3'-C4'-C5'-O5'
39	3I	502	GDP	O4'-C4'-C5'-O5'
41	A1	501	GTP	O4'-C4'-C5'-O5'
41	F1	501	GTP	O4'-C4'-C5'-O5'
41	G0	501	GTP	C3'-C4'-C5'-O5'
41	G9	501	GTP	O4'-C4'-C5'-O5'
41	J0	501	GTP	O4'-C4'-C5'-O5'
41	K4	501	GTP	O4'-C4'-C5'-O5'
41	K7	501	GTP	C3'-C4'-C5'-O5'
41	M4	501	GTP	O4'-C4'-C5'-O5'
41	M7	501	GTP	O4'-C4'-C5'-O5'
41	N8	501	GTP	O4'-C4'-C5'-O5'
41	O8	501	GTP	O4'-C4'-C5'-O5'
41	P4	501	GTP	C3'-C4'-C5'-O5'
41	P9	501	GTP	C3'-C4'-C5'-O5'
41	R0	501	GTP	O4'-C4'-C5'-O5'
41	U7	501	GTP	O4'-C4'-C5'-O5'
41	Y6	501	GTP	O4'-C4'-C5'-O5'
41	0C	501	GTP	C3'-C4'-C5'-O5'
41	0K	501	GTP	O4'-C4'-C5'-O5'
41	1C	501	GTP	C3'-C4'-C5'-O5'
41	1H	501	GTP	O4'-C4'-C5'-O5'
41	1X	501	GTP	C3'-C4'-C5'-O5'
41	2G	501	GTP	C3'-C4'-C5'-O5'
41	2N	501	GTP	O4'-C4'-C5'-O5'
41	2U	501	GTP	O4'-C4'-C5'-O5'
41	2W	501	GTP	O4'-C4'-C5'-O5'
39	D2	501	GDP	PA-O3A-PB-O1B
39	E0	501	GDP	PA-O3A-PB-O1B
39	F6	501	GDP	PA-O3A-PB-O1B
39	G6	501	GDP	PA-O3A-PB-O1B
39	L2	502	GDP	PA-O3A-PB-O1B
39	N2	501	GDP	PA-O3A-PB-O1B
39	Q4	502	GDP	PA-O3A-PB-O1B
39	0U	501	GDP	PA-O3A-PB-O1B
39	2U	502	GDP	O4'-C4'-C5'-O5'
41	H8	501	GTP	C3'-C4'-C5'-O5'
41	J6	501	GTP	C3'-C4'-C5'-O5'
41	L7	501	GTP	O4'-C4'-C5'-O5'
41	Z2	501	GTP	O4'-C4'-C5'-O5'
41	1G	501	GTP	O4'-C4'-C5'-O5'
41	2K	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
41	3S	501	GTP	C3'-C4'-C5'-O5'
39	P8	502	GDP	PB-O3A-PA-O2A
39	1A	503	GDP	PB-O3A-PA-O2A
41	4	501	GTP	PA-O3A-PB-O2B
41	7	501	GTP	PA-O3A-PB-O2B
41	A4	501	GTP	PA-O3A-PB-O2B
41	A9	501	GTP	PA-O3A-PB-O2B
41	B7	501	GTP	PA-O3A-PB-O2B
41	C0	501	GTP	PA-O3A-PB-O2B
41	C1	501	GTP	PB-O3A-PA-O1A
41	E1	501	GTP	PA-O3A-PB-O2B
41	E6	501	GTP	PA-O3A-PB-O2B
41	F0	501	GTP	PA-O3A-PB-O2B
41	G0	501	GTP	PA-O3A-PB-O2B
41	G1	501	GTP	PA-O3A-PB-O2B
41	G5	501	GTP	PA-O3A-PB-O1B
41	H2	501	GTP	PA-O3A-PB-O2B
41	H8	501	GTP	PA-O3A-PB-O2B
41	I4	501	GTP	PA-O3A-PB-O2B
41	J0	501	GTP	PA-O3A-PB-O2B
41	J2	501	GTP	PA-O3A-PB-O2B
41	K0	501	GTP	PA-O3A-PB-O2B
41	K4	501	GTP	PA-O3A-PB-O2B
41	K7	501	GTP	PA-O3A-PB-O2B
41	L2	501	GTP	PA-O3A-PB-O2B
41	L6	501	GTP	PA-O3A-PB-O1B
41	M0	501	GTP	PA-O3A-PB-O2B
41	M6	501	GTP	PA-O3A-PB-O2B
41	M7	501	GTP	PA-O3A-PB-O2B
41	N3	501	GTP	PA-O3A-PB-O1B
41	N8	501	GTP	PA-O3A-PB-O2B
41	P8	501	GTP	PA-O3A-PB-O2B
41	P9	501	GTP	PA-O3A-PB-O2B
41	Q2	501	GTP	PA-O3A-PB-O2B
41	Q4	501	GTP	PA-O3A-PB-O2B
41	Q6	501	GTP	PA-O3A-PB-O2B
41	R2	501	GTP	PA-O3A-PB-O2B
41	R6	501	GTP	PA-O3A-PB-O2B
41	R8	501	GTP	PA-O3A-PB-O2B
41	S0	501	GTP	PA-O3A-PB-O2B
41	T8	501	GTP	PA-O3A-PB-O2B
41	U6	501	GTP	PA-O3A-PB-O2B

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Mol	Chain	Res	Type	Atoms
41	U7	501	GTP	PA-O3A-PB-O2B
41	U9	501	GTP	PA-O3A-PB-O2B
41	V2	501	GTP	PA-O3A-PB-O2B
41	V3	501	GTP	PA-O3A-PB-O2B
41	W0	501	GTP	PA-O3A-PB-O2B
41	W8	501	GTP	PA-O3A-PB-O2B
41	X7	501	GTP	PA-O3A-PB-O2B
41	X7	501	GTP	PB-O3A-PA-O1A
41	Y4	501	GTP	PA-O3A-PB-O2B
41	Z0	501	GTP	PA-O3A-PB-O1B
41	Z2	501	GTP	PA-O3A-PB-O2B
41	0C	501	GTP	PA-O3A-PB-O2B
41	0K	501	GTP	PA-O3A-PB-O2B
41	0Q	501	GTP	PA-O3A-PB-O2B
41	0Y	501	GTP	PA-O3A-PB-O2B
41	1A	501	GTP	PA-O3A-PB-O2B
41	1D	501	GTP	PA-O3A-PB-O1B
41	1G	501	GTP	PA-O3A-PB-O1B
41	1H	501	GTP	PA-O3A-PB-O1B
41	2A	501	GTP	PA-O3A-PB-O2B
41	2C	501	GTP	PA-O3A-PB-O2B
41	2I	501	GTP	PA-O3A-PB-O2B
41	2S	501	GTP	PA-O3A-PB-O2B
41	2W	501	GTP	PA-O3A-PB-O2B
41	3D	501	GTP	PA-O3A-PB-O2B
41	3I	501	GTP	PA-O3A-PB-O2B
41	3M	501	GTP	PA-O3A-PB-O2B
41	3O	501	GTP	PA-O3A-PB-O2B
41	3T	501	GTP	PA-O3A-PB-O2B
39	3K	503	GDP	C3'-C4'-C5'-O5'
41	C1	501	GTP	C3'-C4'-C5'-O5'
41	J4	501	GTP	C3'-C4'-C5'-O5'
41	T8	501	GTP	C3'-C4'-C5'-O5'
41	2A	501	GTP	C3'-C4'-C5'-O5'
39	K0	502	GDP	C3'-C4'-C5'-O5'
39	P4	503	GDP	C3'-C4'-C5'-O5'
39	V4	501	GDP	O4'-C4'-C5'-O5'
39	Y0	502	GDP	C3'-C4'-C5'-O5'
41	T2	501	GTP	C3'-C4'-C5'-O5'
41	W4	501	GTP	C3'-C4'-C5'-O5'
41	2I	501	GTP	C3'-C4'-C5'-O5'
39	B1	501	GDP	PA-O3A-PB-O1B

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Mol	Chain	Res	Type	Atoms
39	C4	501	GDP	PA-O3A-PB-O1B
39	D6	501	GDP	PA-O3A-PB-O1B
39	2Q	502	GDP	PA-O3A-PB-O1B
39	3C	502	GDP	PA-O3A-PB-O1B
39	E8	502	GDP	C3'-C4'-C5'-O5'
39	2G	502	GDP	O4'-C4'-C5'-O5'
41	G1	501	GTP	C3'-C4'-C5'-O5'
41	U6	501	GTP	O4'-C4'-C5'-O5'
41	B0	501	GTP	PA-O3A-PB-O2B
41	E6	501	GTP	PA-O3A-PB-O1B
41	J6	501	GTP	PA-O3A-PB-O2B
41	K0	501	GTP	PA-O3A-PB-O1B
41	L6	501	GTP	PA-O3A-PB-O2B
41	M2	501	GTP	PA-O3A-PB-O2B
41	N3	501	GTP	PA-O3A-PB-O2B
41	O0	501	GTP	PA-O3A-PB-O2B
41	O8	501	GTP	PA-O3A-PB-O2B
41	P4	501	GTP	PA-O3A-PB-O2B
41	T4	501	GTP	PA-O3A-PB-O2B
41	T8	501	GTP	PA-O3A-PB-O1B
41	U4	501	GTP	PA-O3A-PB-O2B
41	X4	501	GTP	PA-O3A-PB-O1B
41	X7	501	GTP	PA-O3A-PB-O1B
41	Y0	501	GTP	PA-O3A-PB-O2B
41	Y1	501	GTP	PA-O3A-PB-O2B
41	Z0	501	GTP	PA-O3A-PB-O2B
41	1G	501	GTP	PA-O3A-PB-O2B
41	1H	501	GTP	PA-O3A-PB-O2B
41	1N	501	GTP	PA-O3A-PB-O2B
41	2Y	501	GTP	PA-O3A-PB-O2B
39	K8	501	GDP	C3'-C4'-C5'-O5'
39	N6	503	GDP	O4'-C4'-C5'-O5'
39	O0	503	GDP	C3'-C4'-C5'-O5'
39	T6	502	GDP	O4'-C4'-C5'-O5'
39	V6	501	GDP	O4'-C4'-C5'-O5'
39	X4	502	GDP	O4'-C4'-C5'-O5'
39	Y4	502	GDP	O4'-C4'-C5'-O5'
39	2I	502	GDP	O4'-C4'-C5'-O5'
41	B0	501	GTP	O4'-C4'-C5'-O5'
41	B5	501	GTP	O4'-C4'-C5'-O5'
41	B7	501	GTP	C3'-C4'-C5'-O5'
41	E6	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
41	H6	501	GTP	O4'-C4'-C5'-O5'
41	I8	501	GTP	O4'-C4'-C5'-O5'
41	K1	501	GTP	O4'-C4'-C5'-O5'
41	S8	501	GTP	O4'-C4'-C5'-O5'
41	V3	501	GTP	C3'-C4'-C5'-O5'
41	1D	501	GTP	O4'-C4'-C5'-O5'
41	2C	501	GTP	O4'-C4'-C5'-O5'
41	2L	501	GTP	O4'-C4'-C5'-O5'
41	K1	501	GTP	PB-O3A-PA-O5'
41	0F	501	GTP	PB-O3A-PA-O5'
41	E4	501	GTP	C4'-C5'-O5'-PA
39	2	501	GDP	O4'-C4'-C5'-O5'
39	A7	501	GDP	O4'-C4'-C5'-O5'
39	G6	501	GDP	O4'-C4'-C5'-O5'
39	T0	501	GDP	O4'-C4'-C5'-O5'
39	T8	502	GDP	C3'-C4'-C5'-O5'
39	U6	502	GDP	C3'-C4'-C5'-O5'
39	W4	502	GDP	C3'-C4'-C5'-O5'
41	7	501	GTP	O4'-C4'-C5'-O5'
41	G0	501	GTP	O4'-C4'-C5'-O5'
41	H2	501	GTP	O4'-C4'-C5'-O5'
41	K6	501	GTP	O4'-C4'-C5'-O5'
41	L2	501	GTP	C3'-C4'-C5'-O5'
41	M6	501	GTP	O4'-C4'-C5'-O5'
41	P4	501	GTP	O4'-C4'-C5'-O5'
41	P9	501	GTP	O4'-C4'-C5'-O5'
41	W2	501	GTP	O4'-C4'-C5'-O5'
41	1W	501	GTP	C3'-C4'-C5'-O5'
41	1X	501	GTP	O4'-C4'-C5'-O5'
41	3C	501	GTP	O4'-C4'-C5'-O5'
41	3I	501	GTP	O4'-C4'-C5'-O5'
39	B8	501	GDP	PA-O3A-PB-O1B
39	D0	501	GDP	PA-O3A-PB-O1B
39	D8	501	GDP	PA-O3A-PB-O1B
39	E2	501	GDP	PA-O3A-PB-O1B
39	J2	502	GDP	PA-O3A-PB-O1B
39	K0	502	GDP	PA-O3A-PB-O1B
39	N6	503	GDP	PA-O3A-PB-O1B
39	N8	502	GDP	PA-O3A-PB-O1B
39	R0	502	GDP	PA-O3A-PB-O1B
39	R4	502	GDP	PA-O3A-PB-O1B
39	S6	501	GDP	PA-O3A-PB-O1B

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Mol	Chain	Res	Type	Atoms
39	S8	502	GDP	PA-O3A-PB-O1B
39	T6	502	GDP	PA-O3A-PB-O1B
39	U2	502	GDP	PA-O3A-PB-O1B
39	V8	502	GDP	PA-O3A-PB-O1B
39	W0	502	GDP	PA-O3A-PB-O1B
39	W2	503	GDP	PA-O3A-PB-O1B
39	X2	501	GDP	PA-O3A-PB-O1B
39	X4	502	GDP	PA-O3A-PB-O1B
39	Y0	502	GDP	PA-O3A-PB-O1B
39	Y2	501	GDP	PA-O3A-PB-O1B
39	Y4	502	GDP	PA-O3A-PB-O1B
39	Y8	501	GDP	PA-O3A-PB-O1B
39	2I	502	GDP	PA-O3A-PB-O1B
39	2U	502	GDP	PA-O3A-PB-O1B
39	2W	502	GDP	PA-O3A-PB-O1B
39	3Q	501	GDP	PA-O3A-PB-O1B
39	W4	502	GDP	C4'-C5'-O5'-PA
39	E4	502	GDP	O4'-C4'-C5'-O5'
39	F6	501	GDP	O4'-C4'-C5'-O5'
39	O6	502	GDP	C3'-C4'-C5'-O5'
39	Q0	501	GDP	C3'-C4'-C5'-O5'
41	2G	501	GTP	O4'-C4'-C5'-O5'
39	2	501	GDP	PA-O3A-PB-O2B
39	A1	502	GDP	PA-O3A-PB-O2B
39	A7	501	GDP	PA-O3A-PB-O2B
39	B5	502	GDP	PA-O3A-PB-O2B
39	C0	502	GDP	PA-O3A-PB-O2B
39	C8	502	GDP	PA-O3A-PB-O2B
39	D0	501	GDP	PA-O3A-PB-O2B
39	D4	501	GDP	PA-O3A-PB-O2B
39	E6	502	GDP	PA-O3A-PB-O2B
39	F0	502	GDP	PA-O3A-PB-O2B
39	F2	501	GDP	PA-O3A-PB-O2B
39	M0	502	GDP	PA-O3A-PB-O2B
39	M0	502	GDP	PA-O3A-PB-O3B
39	N6	503	GDP	PA-O3A-PB-O2B
39	O2	502	GDP	PA-O3A-PB-O2B
39	P4	503	GDP	PA-O3A-PB-O2B
39	Q8	501	GDP	PA-O3A-PB-O2B
39	S0	502	GDP	PA-O3A-PB-O2B
39	V8	502	GDP	PA-O3A-PB-O2B
39	X6	502	GDP	PA-O3A-PB-O2B

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Mol	Chain	Res	Type	Atoms
39	Y0	502	GDP	PA-O3A-PB-O2B
39	Y4	502	GDP	PA-O3A-PB-O2B
39	Y6	502	GDP	PA-O3A-PB-O2B
39	Z0	502	GDP	PA-O3A-PB-O2B
39	0S	502	GDP	PA-O3A-PB-O2B
39	2Y	502	GDP	PA-O3A-PB-O2B
39	3K	503	GDP	PA-O3A-PB-O2B
39	3M	502	GDP	PA-O3A-PB-O2B
39	A3	501	GDP	C5'-O5'-PA-O3A
39	A5	501	GDP	C5'-O5'-PA-O3A
39	D0	501	GDP	C5'-O5'-PA-O3A
39	D2	501	GDP	C5'-O5'-PA-O3A
39	D4	501	GDP	C5'-O5'-PA-O3A
39	E2	501	GDP	C5'-O5'-PA-O3A
39	F6	501	GDP	C5'-O5'-PA-O3A
39	F8	502	GDP	C5'-O5'-PA-O3A
39	G4	502	GDP	C5'-O5'-PA-O3A
39	G6	501	GDP	C5'-O5'-PA-O3A
39	H8	503	GDP	C5'-O5'-PA-O3A
39	I0	502	GDP	C5'-O5'-PA-O3A
39	I8	502	GDP	C5'-O5'-PA-O3A
39	J0	502	GDP	C5'-O5'-PA-O3A
39	J2	502	GDP	C5'-O5'-PA-O3A
39	K4	502	GDP	C5'-O5'-PA-O3A
39	L4	502	GDP	C5'-O5'-PA-O3A
39	M2	502	GDP	C5'-O5'-PA-O3A
39	M8	501	GDP	C5'-O5'-PA-O3A
39	N8	502	GDP	C5'-O5'-PA-O3A
39	O0	503	GDP	C5'-O5'-PA-O3A
39	O6	502	GDP	C5'-O5'-PA-O3A
39	P4	503	GDP	C5'-O5'-PA-O3A
39	Q0	501	GDP	C5'-O5'-PA-O3A
39	R8	502	GDP	C5'-O5'-PA-O3A
39	S4	501	GDP	C5'-O5'-PA-O3A
39	T2	502	GDP	C5'-O5'-PA-O3A
39	U8	501	GDP	C5'-O5'-PA-O3A
39	V0	501	GDP	C5'-O5'-PA-O3A
39	Z4	501	GDP	C5'-O5'-PA-O3A
39	0A	503	GDP	C5'-O5'-PA-O3A
39	0C	502	GDP	C5'-O5'-PA-O3A
39	0I	502	GDP	C5'-O5'-PA-O3A
39	0M	502	GDP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
39	0Q	502	GDP	C5'-O5'-PA-O3A
39	1S	502	GDP	C5'-O5'-PA-O3A
39	1U	501	GDP	C5'-O5'-PA-O3A
39	2A	502	GDP	C5'-O5'-PA-O3A
39	2C	502	GDP	C5'-O5'-PA-O3A
39	2I	502	GDP	C5'-O5'-PA-O3A
39	2K	502	GDP	C5'-O5'-PA-O3A
39	2S	502	GDP	C5'-O5'-PA-O3A
41	3	501	GTP	C5'-O5'-PA-O3A
41	4	501	GTP	C5'-O5'-PA-O3A
41	A1	501	GTP	C5'-O5'-PA-O3A
41	A4	501	GTP	C5'-O5'-PA-O3A
41	A9	501	GTP	C5'-O5'-PA-O3A
41	B0	501	GTP	C5'-O5'-PA-O3A
41	B2	501	GTP	C5'-O5'-PA-O3A
41	B5	501	GTP	C5'-O5'-PA-O3A
41	B7	501	GTP	C5'-O5'-PA-O3A
41	C0	501	GTP	C5'-O5'-PA-O3A
41	C1	501	GTP	C5'-O5'-PA-O3A
41	C5	501	GTP	C5'-O5'-PA-O3A
41	C8	501	GTP	C5'-O5'-PA-O3A
41	C9	501	GTP	C5'-O5'-PA-O3A
41	D5	501	GTP	C5'-O5'-PA-O3A
41	E4	501	GTP	C5'-O5'-PA-O3A
41	F1	501	GTP	C5'-O5'-PA-O3A
41	F5	501	GTP	C5'-O5'-PA-O3A
41	G1	501	GTP	C5'-O5'-PA-O3A
41	G4	501	GTP	C5'-O5'-PA-O3A
41	H2	501	GTP	C5'-O5'-PA-O3A
41	H6	501	GTP	C5'-O5'-PA-O3A
41	H8	501	GTP	C5'-O5'-PA-O3A
41	I1	501	GTP	C5'-O5'-PA-O3A
41	J2	501	GTP	C5'-O5'-PA-O3A
41	J4	501	GTP	C5'-O5'-PA-O3A
41	J6	501	GTP	C5'-O5'-PA-O3A
41	J8	501	GTP	C5'-O5'-PA-O3A
41	K9	501	GTP	C5'-O5'-PA-O3A
41	L2	501	GTP	C5'-O5'-PA-O3A
41	L4	501	GTP	C5'-O5'-PA-O3A
41	M2	501	GTP	C5'-O5'-PA-O3A
41	M4	501	GTP	C5'-O5'-PA-O3A
41	M6	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
41	M7	501	GTP	C5'-O5'-PA-O3A
41	N0	501	GTP	C5'-O5'-PA-O3A
41	N1	501	GTP	C5'-O5'-PA-O3A
41	O0	501	GTP	C5'-O5'-PA-O3A
41	O2	501	GTP	C5'-O5'-PA-O3A
41	O8	501	GTP	C5'-O5'-PA-O3A
41	O9	501	GTP	C5'-O5'-PA-O3A
41	P6	501	GTP	C5'-O5'-PA-O3A
41	P8	501	GTP	C5'-O5'-PA-O3A
41	P9	501	GTP	C5'-O5'-PA-O3A
41	Q2	501	GTP	C5'-O5'-PA-O3A
41	Q4	501	GTP	C5'-O5'-PA-O3A
41	R0	501	GTP	C5'-O5'-PA-O3A
41	R2	501	GTP	C5'-O5'-PA-O3A
41	R4	501	GTP	C5'-O5'-PA-O3A
41	R8	501	GTP	C5'-O5'-PA-O3A
41	S0	501	GTP	C5'-O5'-PA-O3A
41	S5	501	GTP	C5'-O5'-PA-O3A
41	S8	501	GTP	C5'-O5'-PA-O3A
41	T2	501	GTP	C5'-O5'-PA-O3A
41	T4	501	GTP	C5'-O5'-PA-O3A
41	T6	501	GTP	C5'-O5'-PA-O3A
41	U2	501	GTP	C5'-O5'-PA-O3A
41	U6	501	GTP	C5'-O5'-PA-O3A
41	U9	501	GTP	C5'-O5'-PA-O3A
41	V2	501	GTP	C5'-O5'-PA-O3A
41	V8	501	GTP	C5'-O5'-PA-O3A
41	W0	501	GTP	C5'-O5'-PA-O3A
41	W2	501	GTP	C5'-O5'-PA-O3A
41	W4	501	GTP	C5'-O5'-PA-O3A
41	W5	501	GTP	C5'-O5'-PA-O3A
41	W8	501	GTP	C5'-O5'-PA-O3A
41	Y1	501	GTP	C5'-O5'-PA-O3A
41	Y6	501	GTP	C5'-O5'-PA-O3A
41	Z7	501	GTP	C5'-O5'-PA-O3A
41	0A	501	GTP	C5'-O5'-PA-O3A
41	0C	501	GTP	C5'-O5'-PA-O3A
41	0F	501	GTP	C5'-O5'-PA-O3A
41	0I	501	GTP	C5'-O5'-PA-O3A
41	0M	501	GTP	C5'-O5'-PA-O3A
41	0O	501	GTP	C5'-O5'-PA-O3A
41	0S	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
41	0Y	501	GTP	C5'-O5'-PA-O3A
41	1C	501	GTP	C5'-O5'-PA-O3A
41	1N	501	GTP	C5'-O5'-PA-O3A
41	1Q	501	GTP	C5'-O5'-PA-O3A
41	1T	501	GTP	C5'-O5'-PA-O3A
41	1X	501	GTP	C5'-O5'-PA-O3A
41	2A	501	GTP	C5'-O5'-PA-O3A
41	2G	501	GTP	C5'-O5'-PA-O3A
41	2K	501	GTP	C5'-O5'-PA-O3A
41	2L	501	GTP	C5'-O5'-PA-O3A
41	2Q	501	GTP	C5'-O5'-PA-O3A
41	2S	501	GTP	C5'-O5'-PA-O3A
41	2U	501	GTP	C5'-O5'-PA-O3A
41	2W	501	GTP	C5'-O5'-PA-O3A
41	2Y	501	GTP	C5'-O5'-PA-O3A
41	3G	501	GTP	C5'-O5'-PA-O3A
41	3I	501	GTP	C5'-O5'-PA-O3A
41	3K	501	GTP	C5'-O5'-PA-O3A
41	3M	501	GTP	C5'-O5'-PA-O3A
41	3T	501	GTP	C5'-O5'-PA-O3A
39	W8	503	GDP	C4'-C5'-O5'-PA
39	J4	503	GDP	C3'-C4'-C5'-O5'
39	Q2	502	GDP	C3'-C4'-C5'-O5'
39	V2	503	GDP	C3'-C4'-C5'-O5'
39	0W	502	GDP	C3'-C4'-C5'-O5'
39	1U	501	GDP	O4'-C4'-C5'-O5'
41	D7	501	GTP	O4'-C4'-C5'-O5'
41	G5	501	GTP	C3'-C4'-C5'-O5'
41	K7	501	GTP	O4'-C4'-C5'-O5'
41	K9	501	GTP	C3'-C4'-C5'-O5'
41	N1	501	GTP	O4'-C4'-C5'-O5'
41	P6	501	GTP	C3'-C4'-C5'-O5'
41	0C	501	GTP	O4'-C4'-C5'-O5'
41	1C	501	GTP	O4'-C4'-C5'-O5'
41	2Y	501	GTP	O4'-C4'-C5'-O5'
41	3M	501	GTP	C3'-C4'-C5'-O5'
39	P8	502	GDP	PB-O3A-PA-O1A
39	1A	503	GDP	PB-O3A-PA-O1A
41	3	501	GTP	PA-O3A-PB-O2B
41	4	501	GTP	PA-O3A-PB-O1B
41	A1	501	GTP	PA-O3A-PB-O1B
41	A2	501	GTP	PA-O3A-PB-O1B

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Mol	Chain	Res	Type	Atoms
41	A4	501	GTP	PA-O3A-PB-O1B
41	A9	501	GTP	PA-O3A-PB-O1B
41	B0	501	GTP	PA-O3A-PB-O1B
41	B5	501	GTP	PA-O3A-PB-O2B
41	C0	501	GTP	PA-O3A-PB-O1B
41	C5	501	GTP	PB-O3A-PA-O1A
41	D1	501	GTP	PB-O3A-PA-O1A
41	D1	501	GTP	PB-O3A-PA-O2A
41	D3	501	GTP	PB-O3A-PA-O2A
41	E4	501	GTP	PB-O3A-PA-O2A
41	F1	501	GTP	PA-O3A-PB-O2B
41	F8	501	GTP	PA-O3A-PB-O2B
41	G1	501	GTP	PA-O3A-PB-O1B
41	G5	501	GTP	PA-O3A-PB-O2B
41	G7	501	GTP	PA-O3A-PB-O1B
41	H6	501	GTP	PA-O3A-PB-O1B
41	H8	501	GTP	PA-O3A-PB-O1B
41	I1	501	GTP	PA-O3A-PB-O1B
41	I5	501	GTP	PA-O3A-PB-O1B
41	J2	501	GTP	PA-O3A-PB-O1B
41	J6	501	GTP	PA-O3A-PB-O1B
41	K7	501	GTP	PA-O3A-PB-O1B
41	L4	501	GTP	PA-O3A-PB-O2B
41	L7	501	GTP	PA-O3A-PB-O1B
41	M2	501	GTP	PA-O3A-PB-O1B
41	M4	501	GTP	PA-O3A-PB-O2B
41	M6	501	GTP	PA-O3A-PB-O1B
41	N0	501	GTP	PA-O3A-PB-O1B
41	O0	501	GTP	PA-O3A-PB-O1B
41	O2	501	GTP	PA-O3A-PB-O1B
41	O2	501	GTP	PA-O3A-PB-O2B
41	O4	501	GTP	PA-O3A-PB-O2B
41	O6	501	GTP	PA-O3A-PB-O2B
41	O8	501	GTP	PA-O3A-PB-O1B
41	O9	501	GTP	PA-O3A-PB-O1B
41	O9	501	GTP	PA-O3A-PB-O2B
41	P6	501	GTP	PA-O3A-PB-O1B
41	P8	501	GTP	PA-O3A-PB-O1B
41	Q4	501	GTP	PA-O3A-PB-O1B
41	Q6	501	GTP	PA-O3A-PB-O1B
41	R0	501	GTP	PA-O3A-PB-O1B
41	R0	501	GTP	PA-O3A-PB-O2B

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Mol	Chain	Res	Type	Atoms
41	R2	501	GTP	PA-O3A-PB-O1B
41	S0	501	GTP	PA-O3A-PB-O1B
41	T2	501	GTP	PA-O3A-PB-O2B
41	U6	501	GTP	PA-O3A-PB-O1B
41	U7	501	GTP	PA-O3A-PB-O1B
41	U9	501	GTP	PA-O3A-PB-O1B
41	V2	501	GTP	PA-O3A-PB-O1B
41	V3	501	GTP	PA-O3A-PB-O1B
41	W4	501	GTP	PA-O3A-PB-O1B
41	W4	501	GTP	PA-O3A-PB-O2B
41	W5	501	GTP	PA-O3A-PB-O1B
41	W5	501	GTP	PA-O3A-PB-O2B
41	X4	501	GTP	PB-O3A-PA-O1A
41	X6	501	GTP	PA-O3A-PB-O2B
41	Y0	501	GTP	PA-O3A-PB-O1B
41	Y4	501	GTP	PA-O3A-PB-O1B
41	Y6	501	GTP	PA-O3A-PB-O1B
41	Y6	501	GTP	PA-O3A-PB-O2B
41	Z2	501	GTP	PA-O3A-PB-O1B
41	Z6	501	GTP	PA-O3A-PB-O1B
41	0A	501	GTP	PA-O3A-PB-O1B
41	0C	501	GTP	PA-O3A-PB-O1B
41	0F	501	GTP	PA-O3A-PB-O1B
41	0I	501	GTP	PA-O3A-PB-O1B
41	0O	501	GTP	PA-O3A-PB-O1B
41	0Q	501	GTP	PA-O3A-PB-O1B
41	0S	501	GTP	PA-O3A-PB-O1B
41	0V	501	GTP	PA-O3A-PB-O1B
41	0Y	501	GTP	PA-O3A-PB-O1B
41	1N	501	GTP	PA-O3A-PB-O1B
41	1T	501	GTP	PA-O3A-PB-O2B
41	2E	501	GTP	PA-O3A-PB-O1B
41	2G	501	GTP	PA-O3A-PB-O2B
41	2I	501	GTP	PA-O3A-PB-O1B
41	2K	501	GTP	PA-O3A-PB-O1B
41	2K	501	GTP	PA-O3A-PB-O2B
41	2N	501	GTP	PA-O3A-PB-O1B
41	2U	501	GTP	PA-O3A-PB-O1B
41	2U	501	GTP	PA-O3A-PB-O2B
41	2W	501	GTP	PA-O3A-PB-O1B
41	2Y	501	GTP	PA-O3A-PB-O1B
41	3I	501	GTP	PA-O3A-PB-O1B

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Mol	Chain	Res	Type	Atoms
41	3O	501	GTP	PA-O3A-PB-O1B
41	3P	501	GTP	PA-O3A-PB-O1B
39	B1	501	GDP	C5'-O5'-PA-O1A
39	C0	502	GDP	C5'-O5'-PA-O1A
39	C8	502	GDP	C5'-O5'-PA-O1A
39	G8	501	GDP	C5'-O5'-PA-O1A
39	H6	502	GDP	C5'-O5'-PA-O1A
39	I4	502	GDP	C5'-O5'-PA-O1A
39	J6	502	GDP	C5'-O5'-PA-O1A
39	J8	502	GDP	C5'-O5'-PA-O1A
39	K0	502	GDP	C5'-O5'-PA-O1A
39	N0	502	GDP	C5'-O5'-PA-O1A
39	N2	501	GDP	C5'-O5'-PA-O1A
39	O8	503	GDP	C5'-O5'-PA-O1A
39	P8	502	GDP	C5'-O5'-PA-O1A
39	R0	502	GDP	C5'-O5'-PA-O1A
39	R6	503	GDP	C5'-O5'-PA-O1A
39	S8	502	GDP	C5'-O5'-PA-O1A
39	U2	502	GDP	C5'-O5'-PA-O1A
39	V6	501	GDP	C5'-O5'-PA-O1A
39	W8	503	GDP	C5'-O5'-PA-O1A
39	X0	502	GDP	C5'-O5'-PA-O1A
39	X2	501	GDP	C5'-O5'-PA-O1A
39	Y0	502	GDP	C5'-O5'-PA-O1A
39	Y6	502	GDP	C5'-O5'-PA-O1A
39	Z2	503	GDP	C5'-O5'-PA-O1A
39	0G	501	GDP	C5'-O5'-PA-O1A
39	0O	502	GDP	C5'-O5'-PA-O1A
39	0Y	502	GDP	C5'-O5'-PA-O1A
39	1E	501	GDP	C5'-O5'-PA-O1A
39	1M	501	GDP	C5'-O5'-PA-O1A
39	1O	501	GDP	C5'-O5'-PA-O1A
39	1W	502	GDP	C5'-O5'-PA-O1A
39	2E	502	GDP	C5'-O5'-PA-O1A
39	2M	501	GDP	C5'-O5'-PA-O1A
39	3G	502	GDP	C5'-O5'-PA-O1A
39	3O	502	GDP	C5'-O5'-PA-O1A
41	B2	501	GTP	C5'-O5'-PA-O2A
41	F0	501	GTP	C5'-O5'-PA-O1A
41	G9	501	GTP	C5'-O5'-PA-O1A
39	S0	502	GDP	C3'-C4'-C5'-O5'
39	0Q	502	GDP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
39	1K	501	GDP	O4'-C4'-C5'-O5'
41	3S	501	GTP	O4'-C4'-C5'-O5'
39	A7	501	GDP	PA-O3A-PB-O1B
39	F0	502	GDP	PA-O3A-PB-O1B
39	J8	502	GDP	PA-O3A-PB-O1B
39	M6	502	GDP	PA-O3A-PB-O1B
39	Q8	501	GDP	PA-O3A-PB-O1B
39	S0	502	GDP	PA-O3A-PB-O1B
39	X8	501	GDP	PA-O3A-PB-O1B
39	Y6	502	GDP	PA-O3A-PB-O1B
39	2Y	502	GDP	PA-O3A-PB-O1B
39	3K	503	GDP	PA-O3A-PB-O1B
39	3M	502	GDP	PA-O3A-PB-O1B
39	3O	502	GDP	PA-O3A-PB-O1B
39	I2	501	GDP	C4'-C5'-O5'-PA
41	D5	501	GTP	C4'-C5'-O5'-PA
39	B3	501	GDP	O4'-C4'-C5'-O5'
39	0E	501	GDP	C3'-C4'-C5'-O5'
41	C5	501	GTP	C3'-C4'-C5'-O5'
41	F8	501	GTP	C3'-C4'-C5'-O5'

There are no ring outliers.

241 monomers are involved in 397 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
39	D8	501	GDP	1	0
39	B1	501	GDP	1	0
41	C1	501	GTP	2	0
41	K4	501	GTP	2	0
39	Q2	502	GDP	1	0
39	D2	501	GDP	2	0
39	S4	501	GDP	1	0
39	1Q	502	GDP	1	0
41	O8	501	GTP	1	0
39	P4	503	GDP	1	0
41	3M	501	GTP	1	0
41	0I	501	GTP	3	0
39	H4	501	GDP	1	0
41	H3	501	GTP	1	0
41	R0	501	GTP	1	0
39	Z4	501	GDP	1	0
41	K7	501	GTP	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
39	K4	502	GDP	1	0
41	Q2	501	GTP	1	0
39	L6	502	GDP	1	0
41	D7	501	GTP	2	0
41	I0	501	GTP	1	0
41	F3	501	GTP	2	0
41	O4	501	GTP	2	0
41	1Q	501	GTP	1	0
39	E2	501	GDP	2	0
41	8	501	GTP	1	0
39	C4	501	GDP	3	0
39	O6	502	GDP	1	0
41	E4	501	GTP	1	0
39	V8	502	GDP	1	0
39	Z6	502	GDP	2	0
41	N8	501	GTP	2	0
41	1S	501	GTP	1	0
41	0M	501	GTP	3	0
41	X7	501	GTP	2	0
39	Z8	501	GDP	3	0
39	A5	501	GDP	1	0
41	X0	501	GTP	1	0
39	0U	501	GDP	1	0
41	N0	501	GTP	1	0
41	0F	501	GTP	3	0
39	S2	502	GDP	1	0
41	H2	501	GTP	1	0
41	T4	501	GTP	3	0
39	B8	501	GDP	2	0
41	0V	501	GTP	1	0
39	0A	503	GDP	1	0
39	1A	503	GDP	2	0
41	P6	501	GTP	2	0
41	J6	501	GTP	1	0
41	2E	501	GTP	2	0
39	A7	501	GDP	2	0
39	3O	502	GDP	1	0
39	Z2	503	GDP	3	0
39	X6	502	GDP	3	0
41	C5	501	GTP	2	0
41	1T	501	GTP	1	0
39	1O	501	GDP	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
41	K0	501	GTP	2	0
39	R4	502	GDP	1	0
41	A1	501	GTP	2	0
39	F0	502	GDP	2	0
39	B3	501	GDP	1	0
41	X6	501	GTP	3	0
41	J4	501	GTP	1	0
39	J8	502	GDP	1	0
39	W2	503	GDP	1	0
41	L2	501	GTP	2	0
39	F2	501	GDP	3	0
41	I1	501	GTP	1	0
41	2L	501	GTP	1	0
39	1W	502	GDP	2	0
39	N8	502	GDP	3	0
41	Y1	501	GTP	2	0
41	B5	501	GTP	2	0
41	1L	501	GTP	1	0
39	T0	501	GDP	2	0
39	J2	502	GDP	1	0
41	J0	501	GTP	1	0
39	P8	502	GDP	2	0
41	3D	501	GTP	2	0
41	0K	501	GTP	2	0
41	1H	501	GTP	2	0
39	W8	503	GDP	2	0
41	2Q	501	GTP	1	0
39	D0	501	GDP	5	0
39	X8	501	GDP	1	0
41	S2	501	GTP	1	0
41	T6	501	GTP	3	0
41	G9	501	GTP	1	0
41	Y6	501	GTP	2	0
39	D4	501	GDP	3	0
41	F1	501	GTP	1	0
41	A9	501	GTP	1	0
41	L6	501	GTP	1	0
41	2W	501	GTP	1	0
41	1N	501	GTP	1	0
39	5	501	GDP	1	0
41	A4	501	GTP	2	0
39	0M	502	GDP	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
39	2K	502	GDP	2	0
41	I4	501	GTP	2	0
41	S9	501	GTP	2	0
39	0W	502	GDP	2	0
39	2G	502	GDP	3	0
41	G5	501	GTP	3	0
39	G8	501	GDP	1	0
41	Z2	501	GTP	2	0
41	K6	501	GTP	3	0
41	C0	501	GTP	2	0
39	G4	502	GDP	1	0
39	0O	502	GDP	1	0
41	R6	501	GTP	1	0
41	F8	501	GTP	1	0
41	W5	501	GTP	1	0
39	O2	502	GDP	2	0
39	N6	503	GDP	2	0
39	W0	502	GDP	2	0
39	X2	501	GDP	3	0
39	D6	501	GDP	3	0
39	Y2	501	GDP	2	0
39	2E	502	GDP	1	0
41	H8	501	GTP	1	0
39	3A	502	GDP	1	0
41	2I	501	GTP	1	0
39	E0	501	GDP	4	0
41	2G	501	GTP	2	0
41	S8	501	GTP	1	0
41	J2	501	GTP	1	0
41	L4	501	GTP	3	0
39	X0	502	GDP	2	0
39	0C	502	GDP	2	0
41	1X	501	GTP	1	0
39	1S	502	GDP	1	0
41	G1	501	GTP	2	0
41	O9	501	GTP	1	0
39	2M	501	GDP	2	0
41	Q4	501	GTP	1	0
39	C6	501	GDP	3	0
39	3C	502	GDP	1	0
39	9	501	GDP	1	0
41	Z3	501	GTP	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
41	2C	501	GTP	2	0
39	3S	502	GDP	1	0
39	0K	502	GDP	1	0
41	H6	501	GTP	1	0
39	H6	502	GDP	1	0
39	L4	502	GDP	2	0
39	T6	502	GDP	3	0
39	E6	502	GDP	1	0
41	O6	501	GTP	1	0
41	0O	501	GTP	2	0
41	1C	501	GTP	1	0
39	N2	501	GDP	1	0
39	1K	501	GDP	1	0
39	3Q	501	GDP	1	0
39	7	502	GDP	3	0
41	T2	501	GTP	2	0
41	F0	501	GTP	2	0
41	B0	501	GTP	2	0
41	J8	501	GTP	1	0
41	K9	501	GTP	2	0
41	1D	501	GTP	1	0
41	R2	501	GTP	1	0
39	L2	502	GDP	1	0
41	E1	501	GTP	3	0
39	R6	503	GDP	1	0
39	Q4	502	GDP	1	0
39	3	502	GDP	2	0
41	Y4	501	GTP	2	0
41	Q6	501	GTP	1	0
41	X4	501	GTP	3	0
41	2U	501	GTP	1	0
39	Y4	502	GDP	3	0
39	Q6	502	GDP	2	0
39	Y0	502	GDP	2	0
39	E8	502	GDP	1	0
41	P4	501	GTP	3	0
41	1A	501	GTP	1	0
41	O0	501	GTP	1	0
39	1C	502	GDP	1	0
41	C9	501	GTP	5	0
41	0S	501	GTP	2	0
39	J6	502	GDP	1	0

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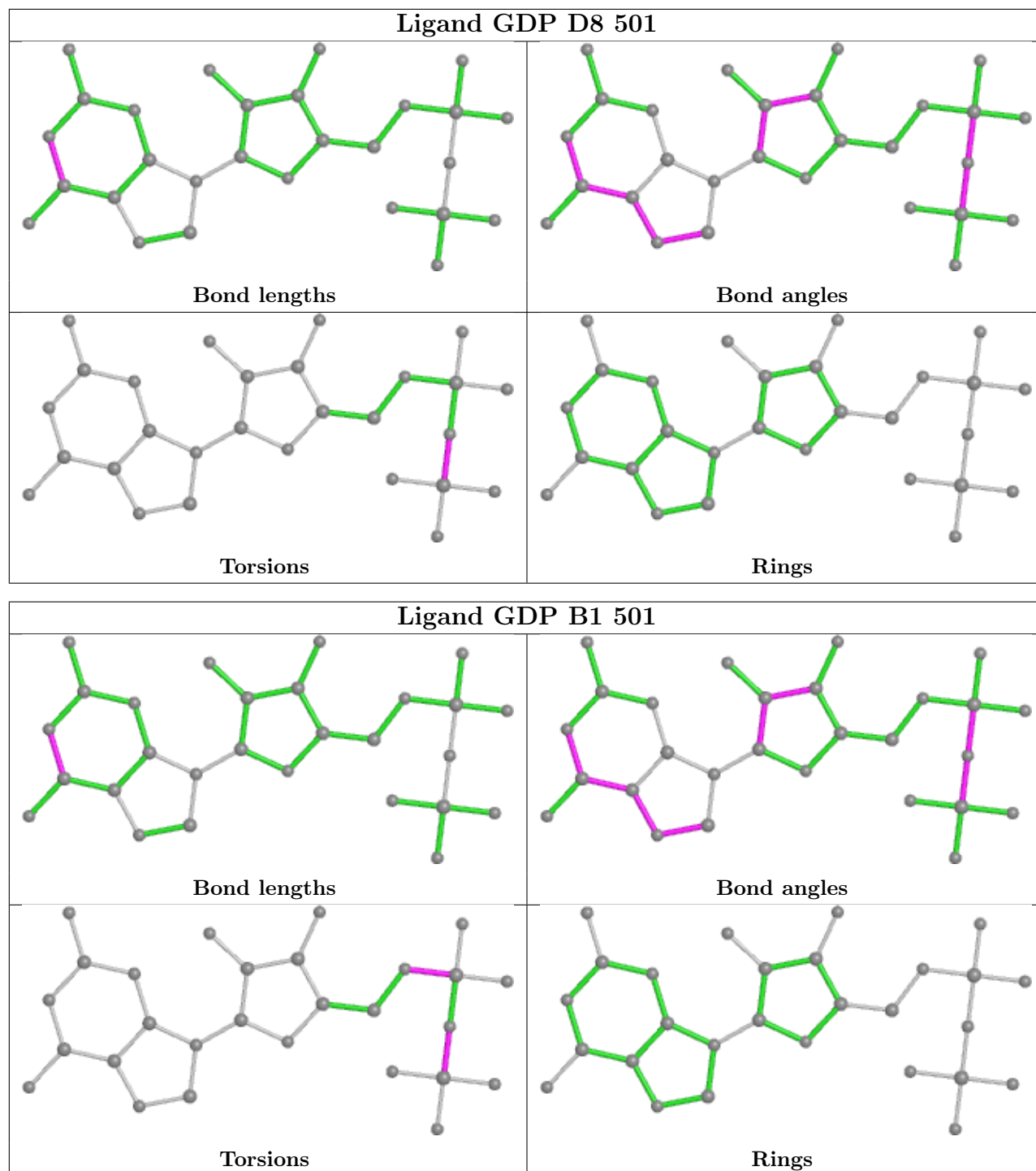
Mol	Chain	Res	Type	Clashes	Symm-Clashes
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41	0C	501	GTP	3	0
41	3O	501	GTP	1	0
41	G0	501	GTP	3	0
41	0Y	501	GTP	1	0
39	1M	501	GDP	1	0
41	B7	501	GTP	1	0
41	F5	501	GTP	2	0
41	G4	501	GTP	2	0
41	M7	501	GTP	1	0
39	C8	502	GDP	3	0
41	P9	501	GTP	2	0
39	V4	501	GDP	1	0
41	S0	501	GTP	1	0
41	P8	501	GTP	2	0
41	D5	501	GTP	1	0
39	0I	502	GDP	1	0
39	2C	502	GDP	1	0
41	1W	501	GTP	1	0
41	Z6	501	GTP	2	0
39	0G	501	GDP	2	0
41	T8	501	GTP	2	0
39	3I	502	GDP	1	0
41	Z7	501	GTP	2	0
41	E6	501	GTP	2	0
41	Z0	501	GTP	1	0
39	0Q	502	GDP	1	0
39	U2	502	GDP	1	0
39	0E	501	GDP	3	0
39	V6	501	GDP	1	0
41	0A	501	GTP	2	0
39	H2	503	GDP	1	0
41	E8	501	GTP	3	0
39	Y8	501	GDP	2	0
41	0Q	501	GTP	3	0
41	A2	501	GTP	1	0
39	3K	503	GDP	1	0
39	O8	503	GDP	1	0
41	1G	501	GTP	1	0
41	3	501	GTP	1	0
39	S8	502	GDP	1	0
39	0Y	502	GDP	1	0

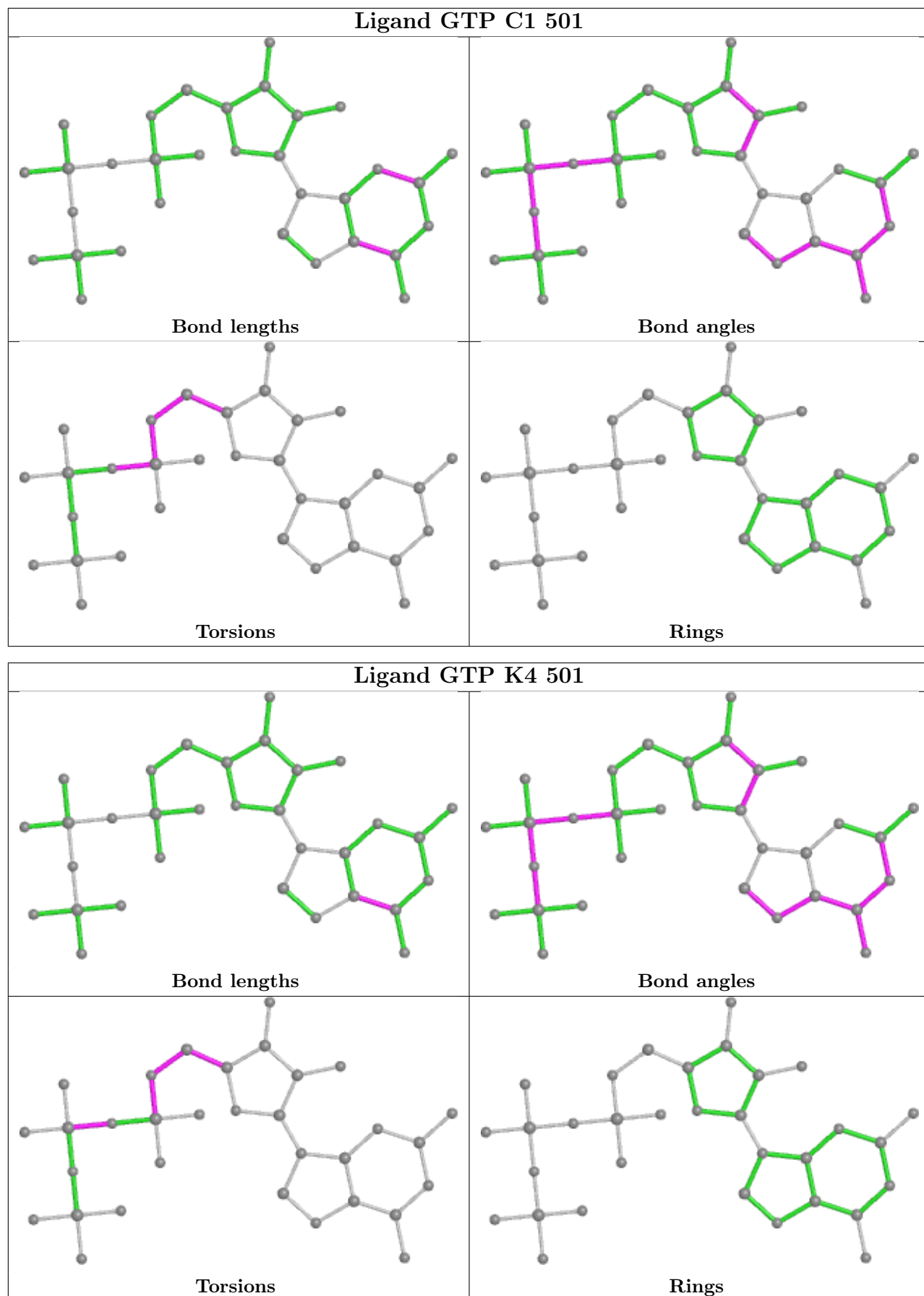
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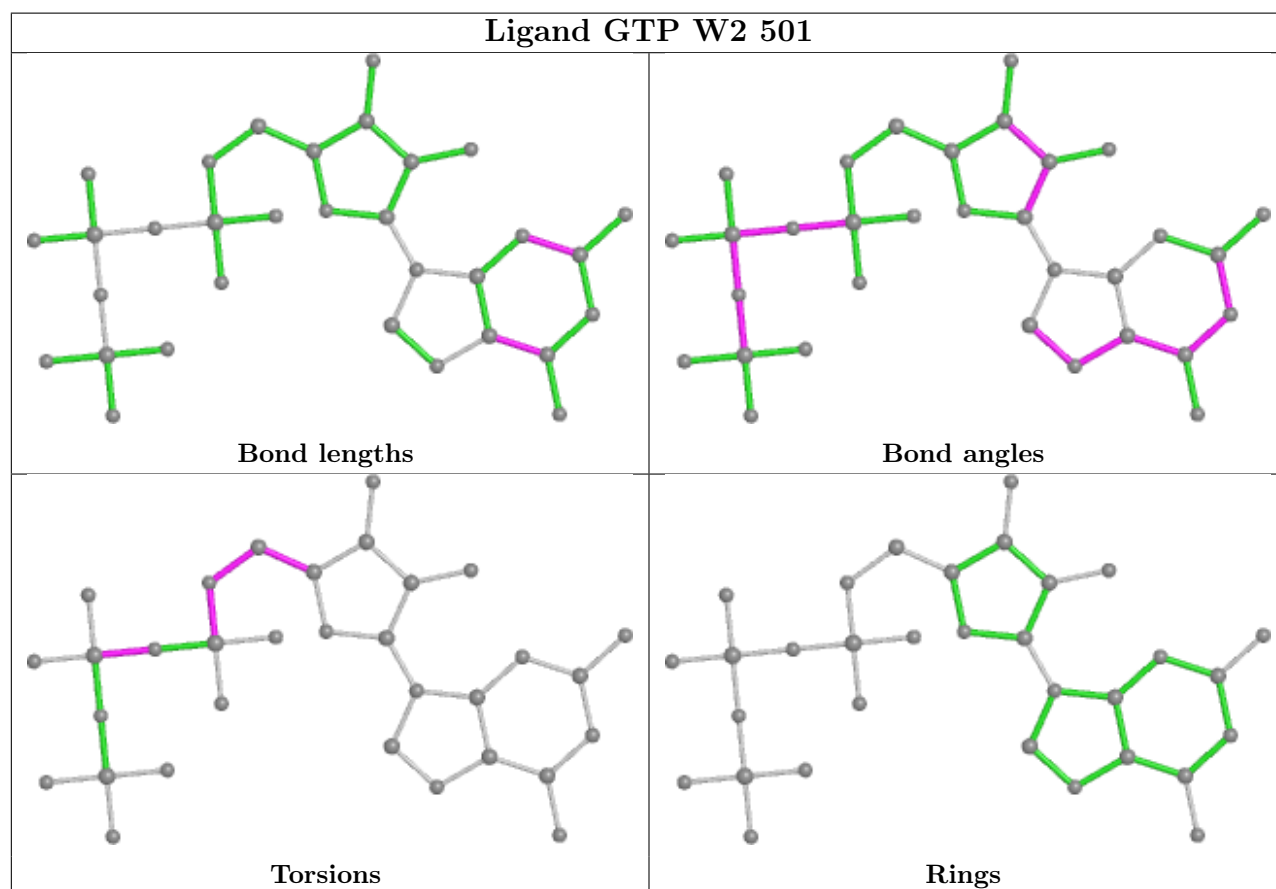
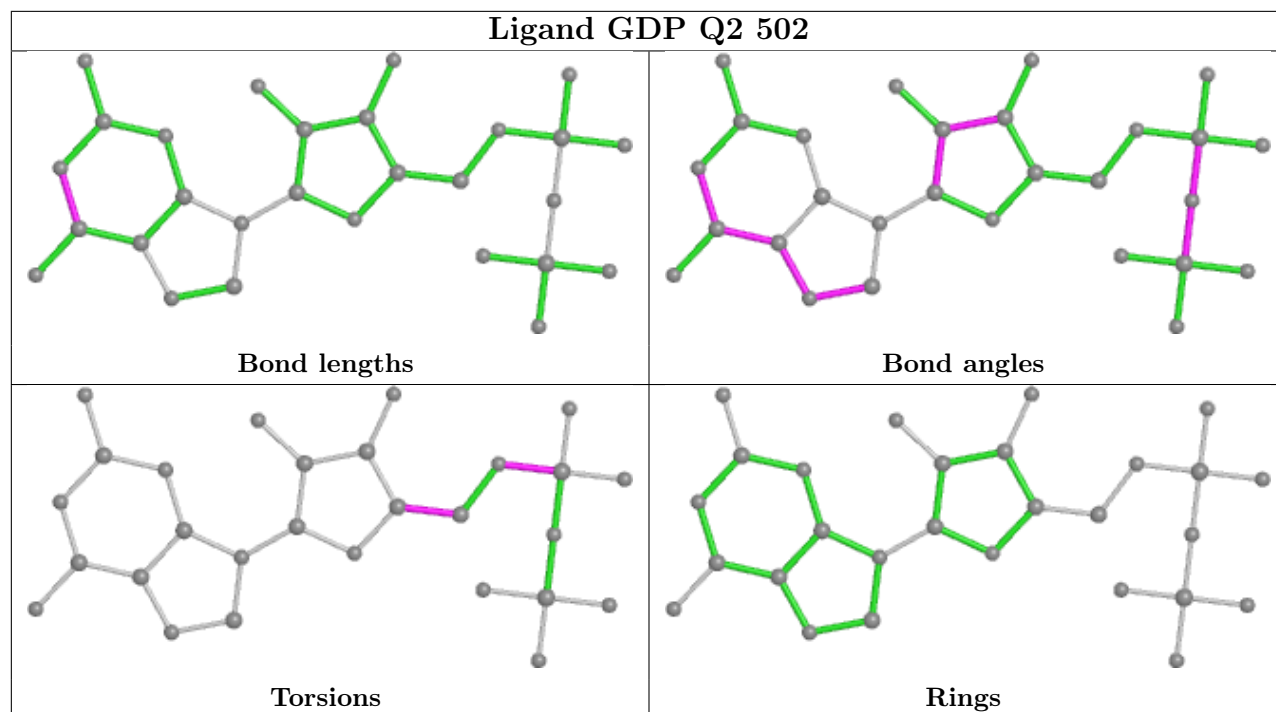
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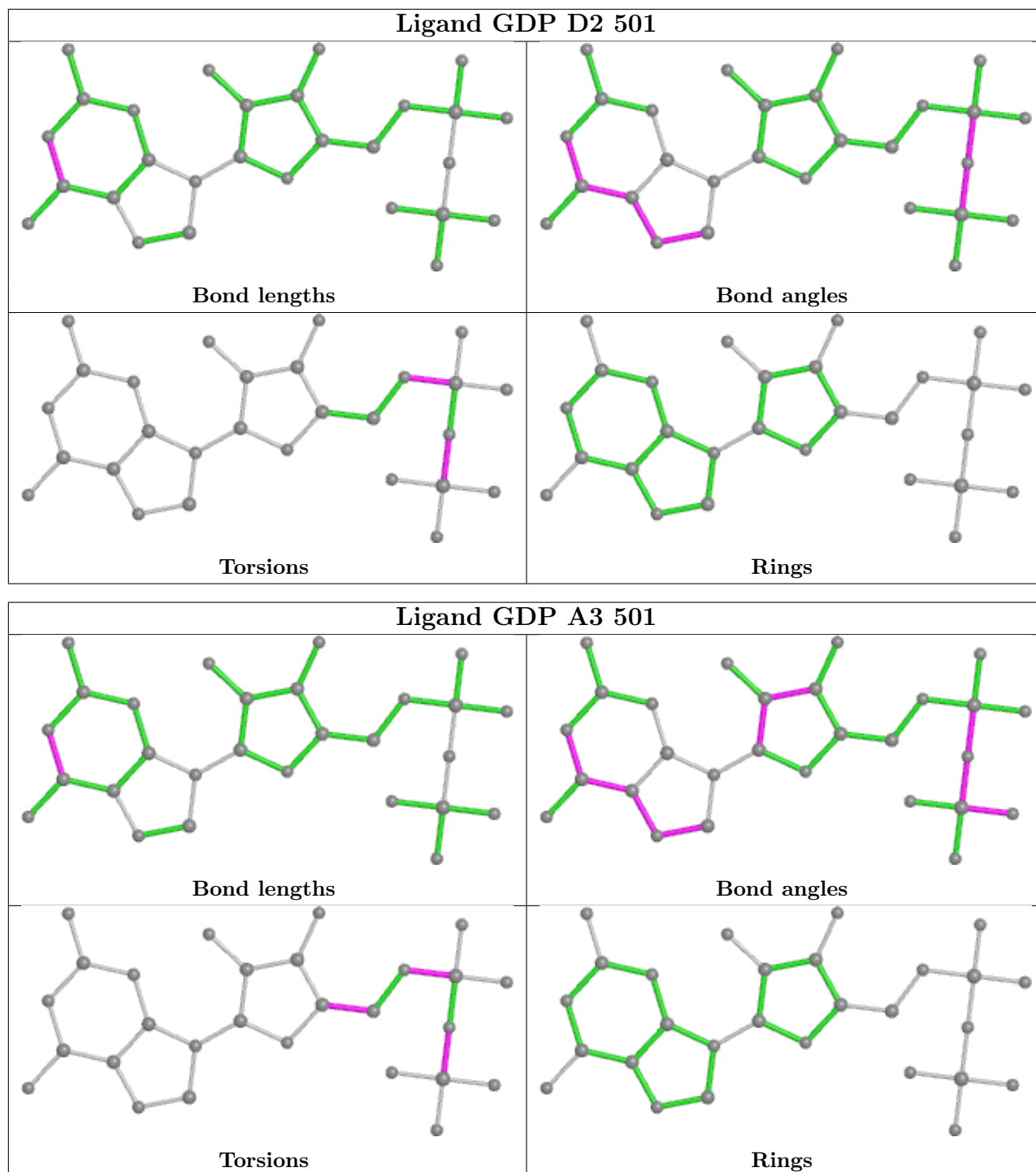
Mol	Chain	Res	Type	Clashes	Symm-Clashes
41	N6	501	GTP	3	0
41	I8	501	GTP	1	0
41	C8	501	GTP	1	0
39	O5	502	GDP	2	0
41	D3	501	GTP	2	0
41	U4	501	GTP	1	0
41	4	501	GTP	1	0
39	Y6	502	GDP	2	0
39	X4	502	GDP	2	0
41	2N	501	GTP	1	0
39	Z0	502	GDP	2	0
41	Y0	501	GTP	3	0
41	G7	501	GTP	2	0
41	D1	501	GTP	1	0

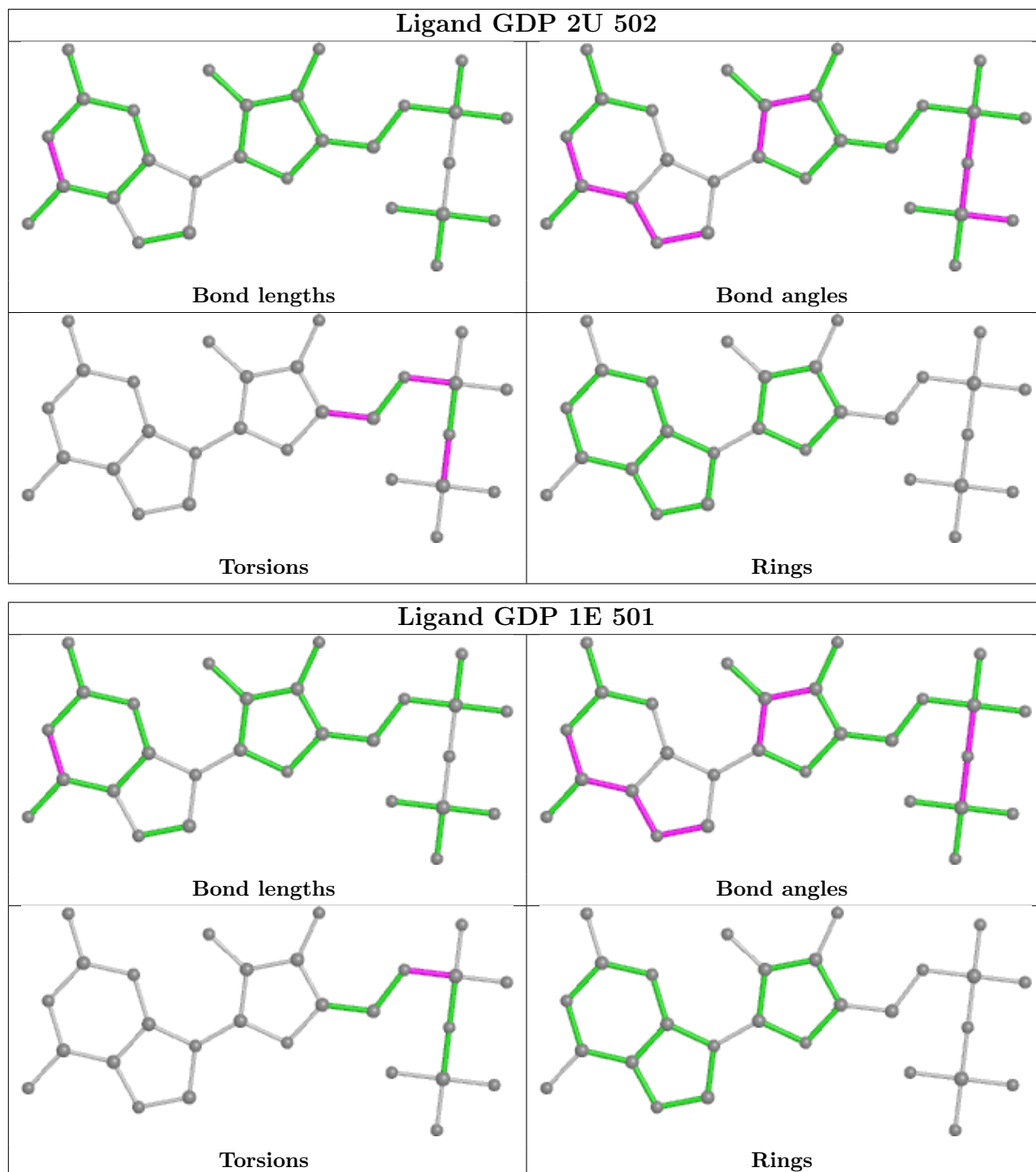
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 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.

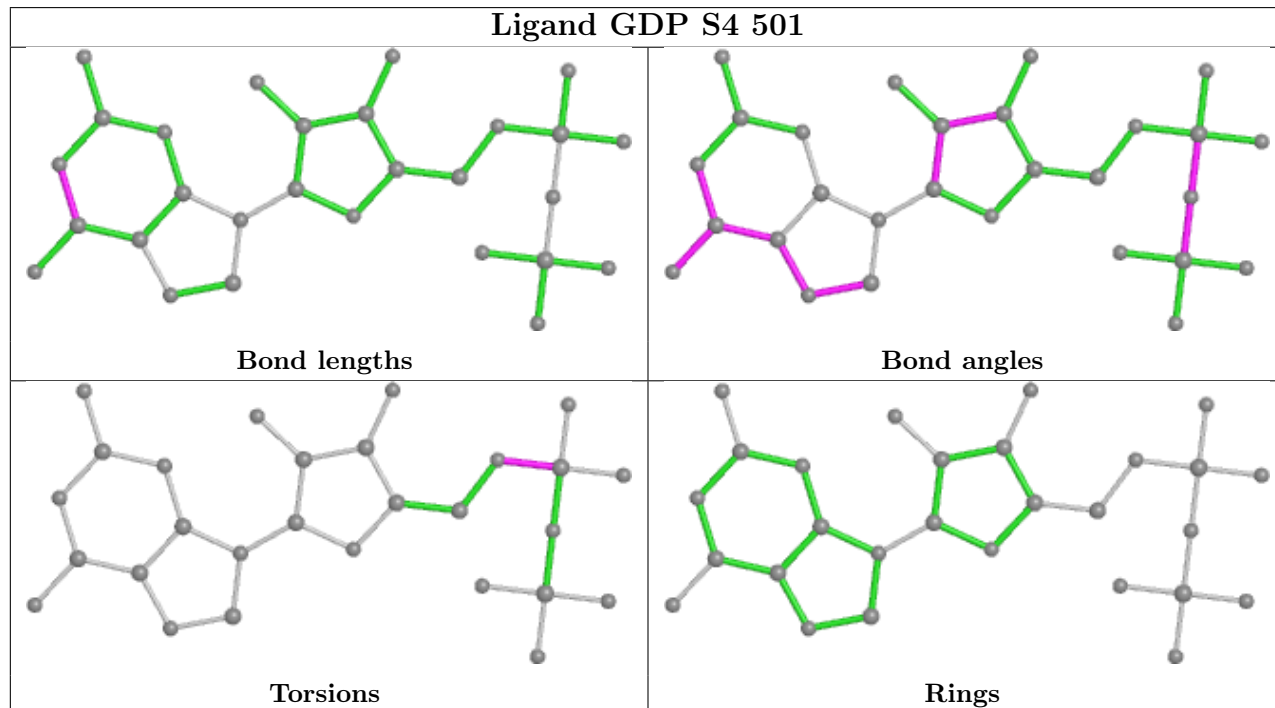
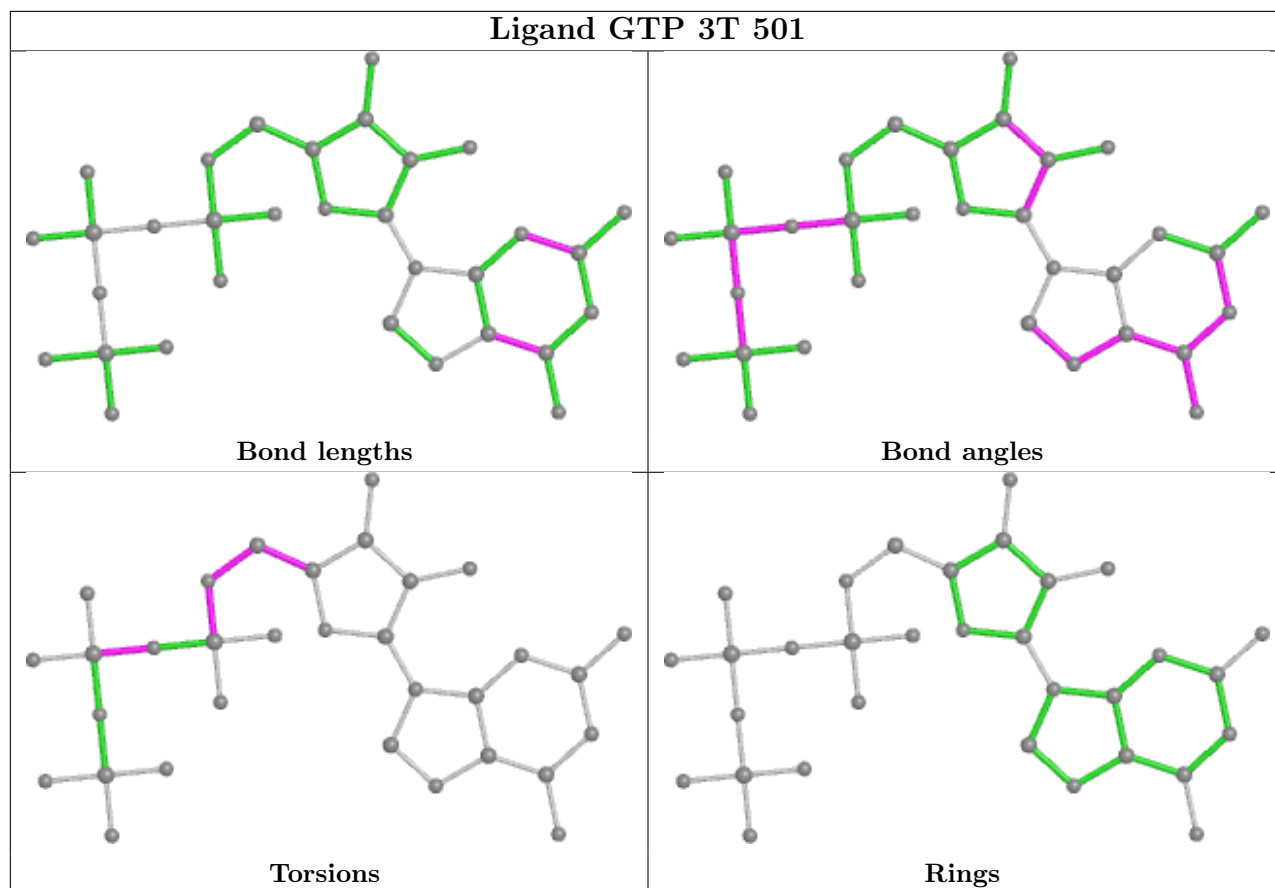


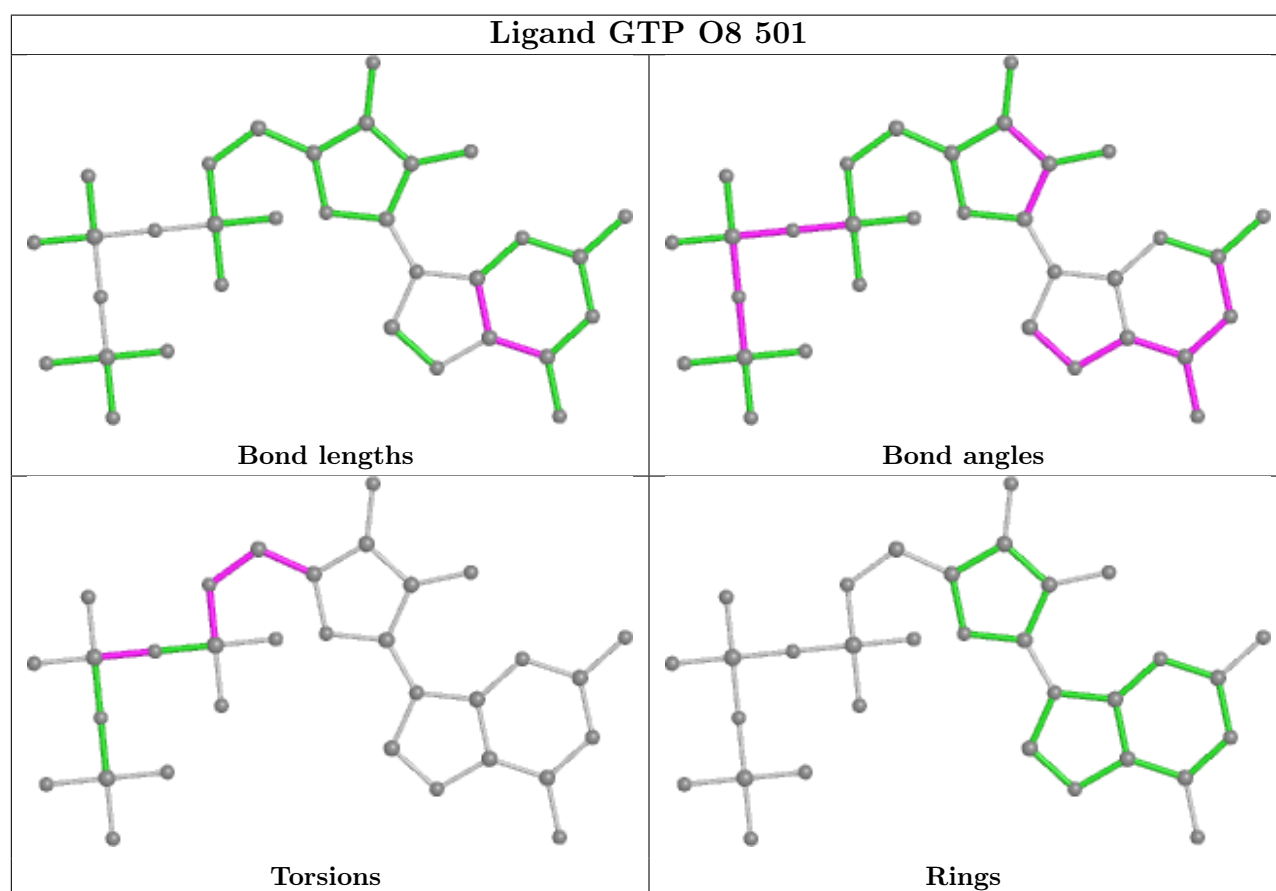
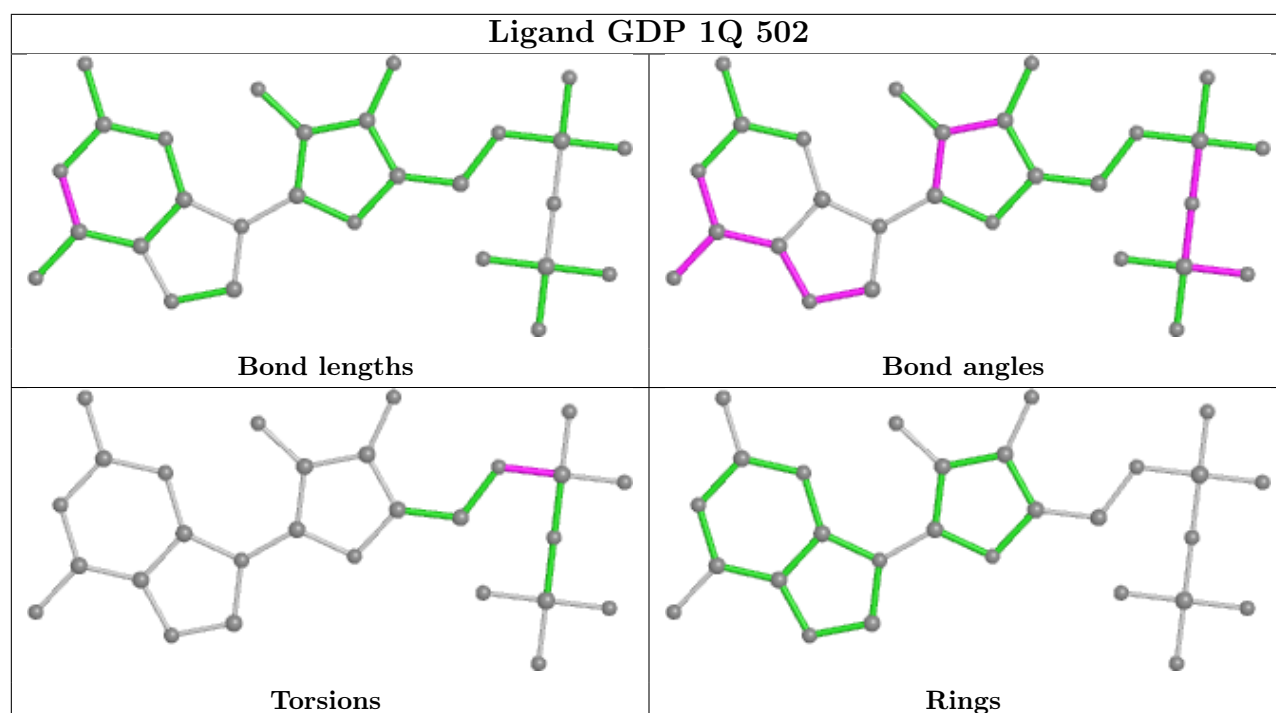


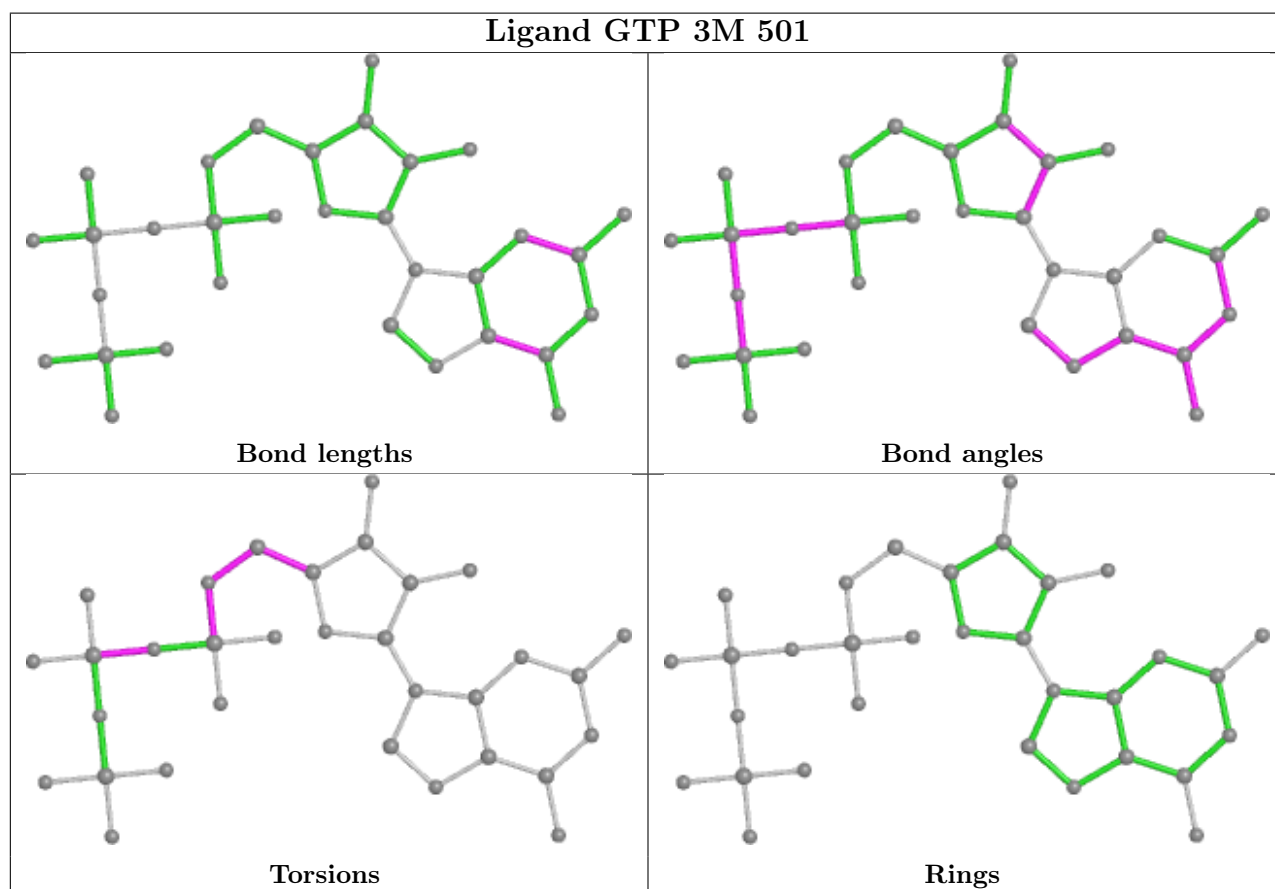
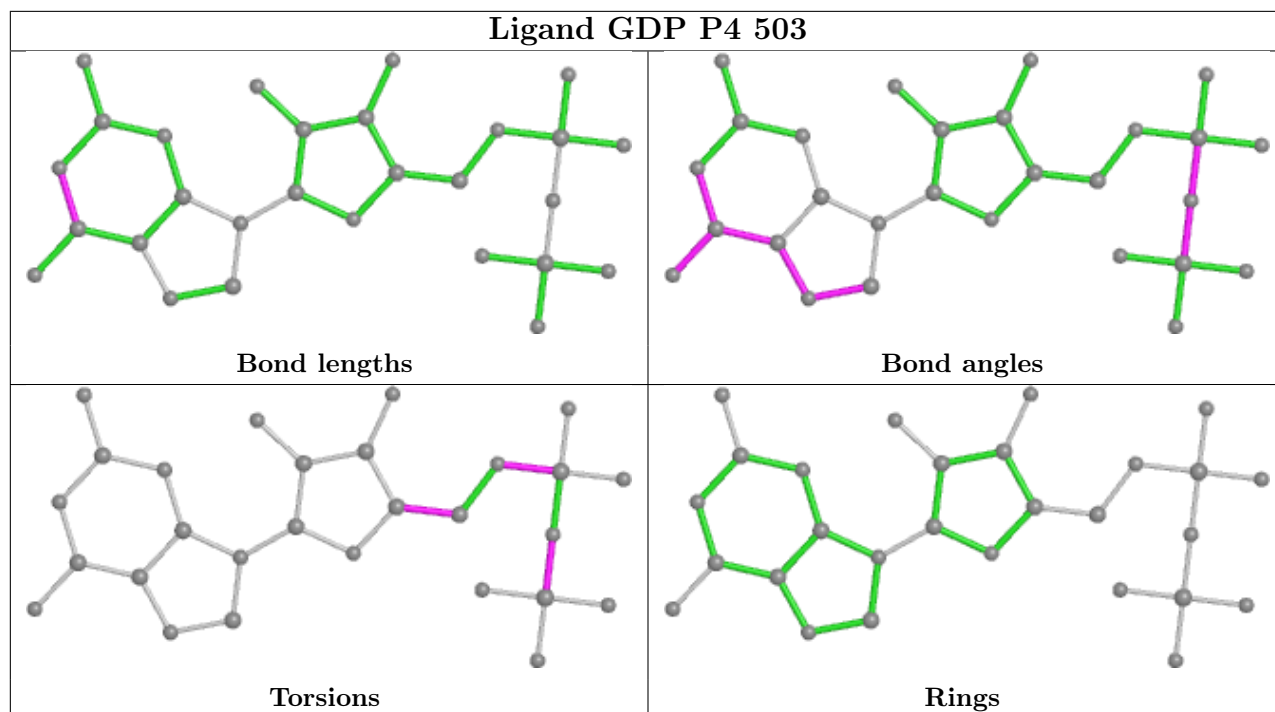


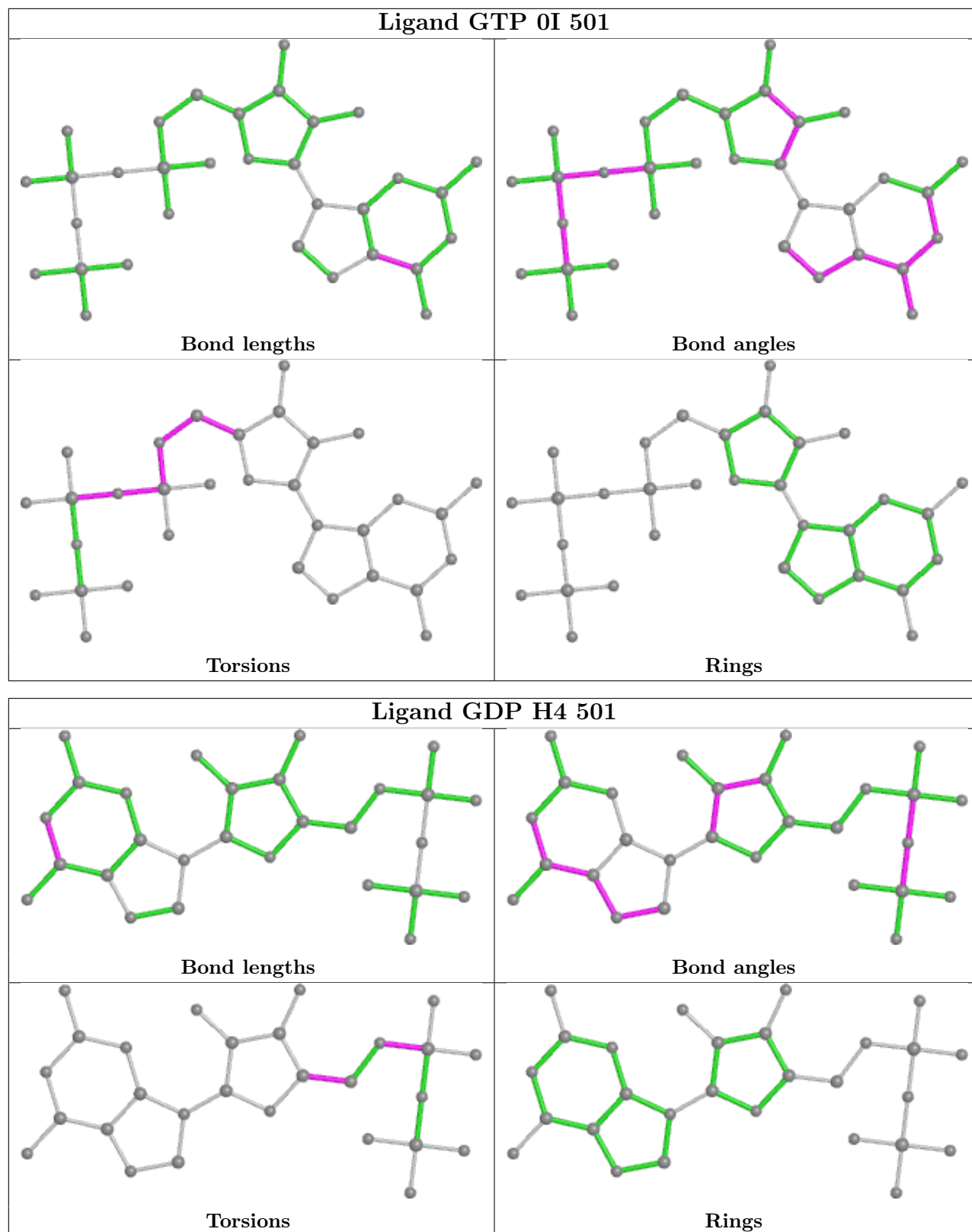


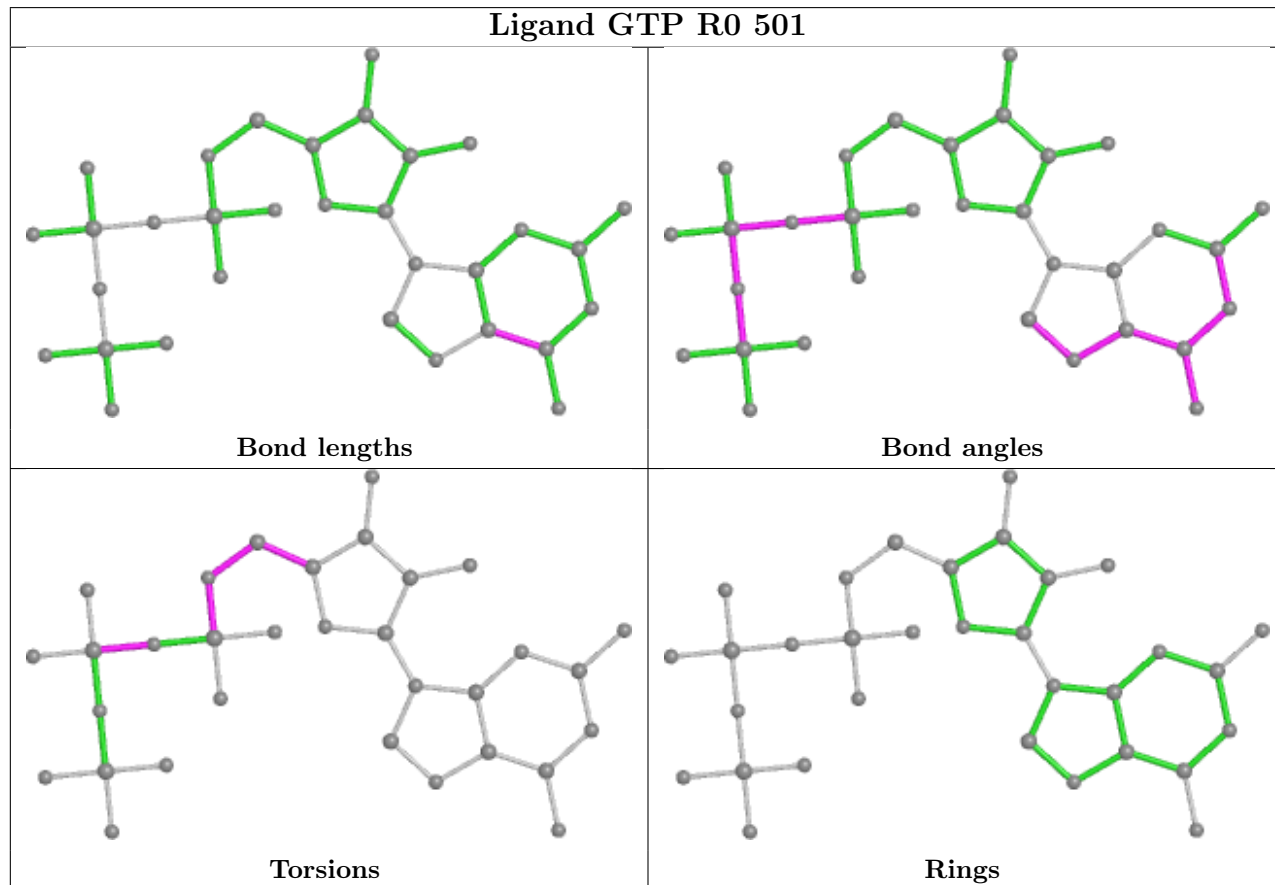
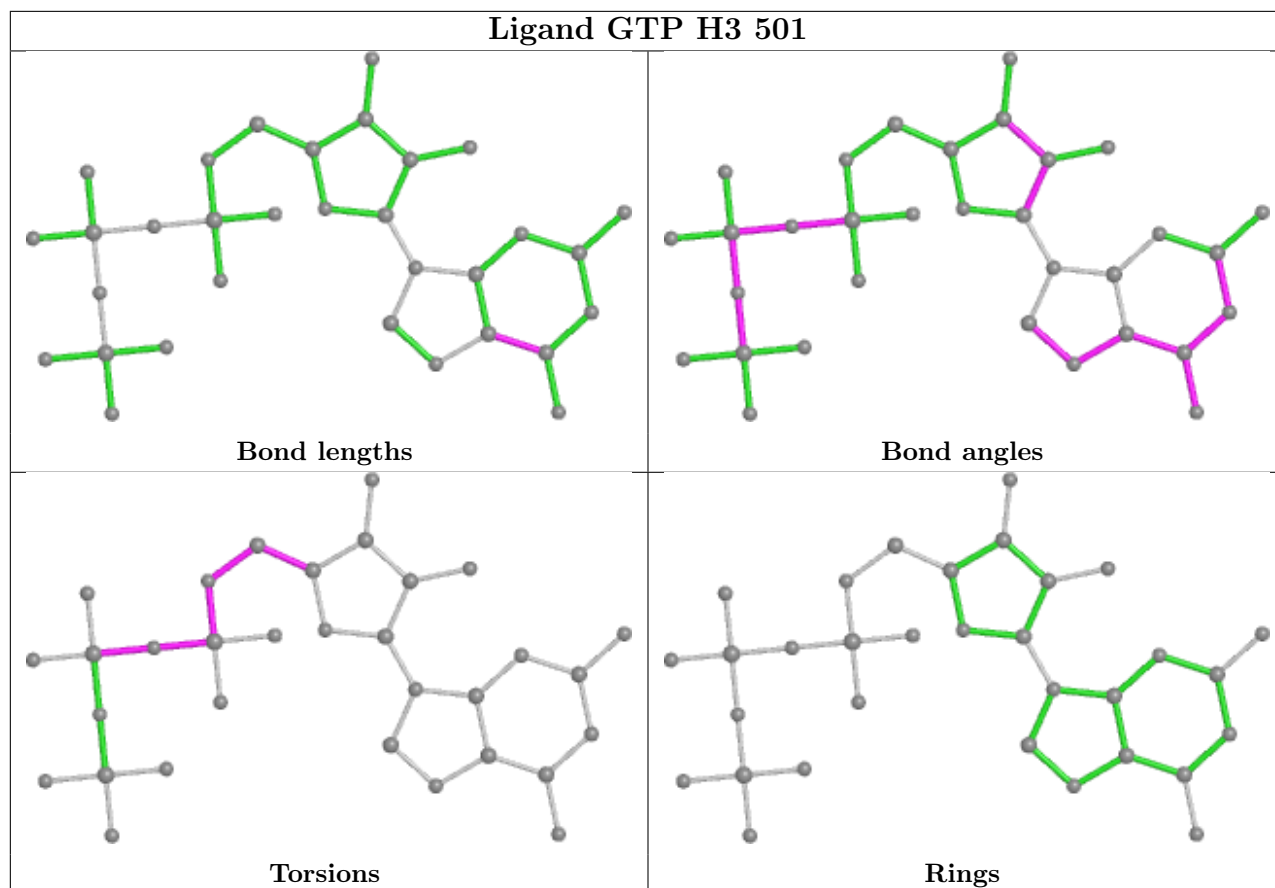


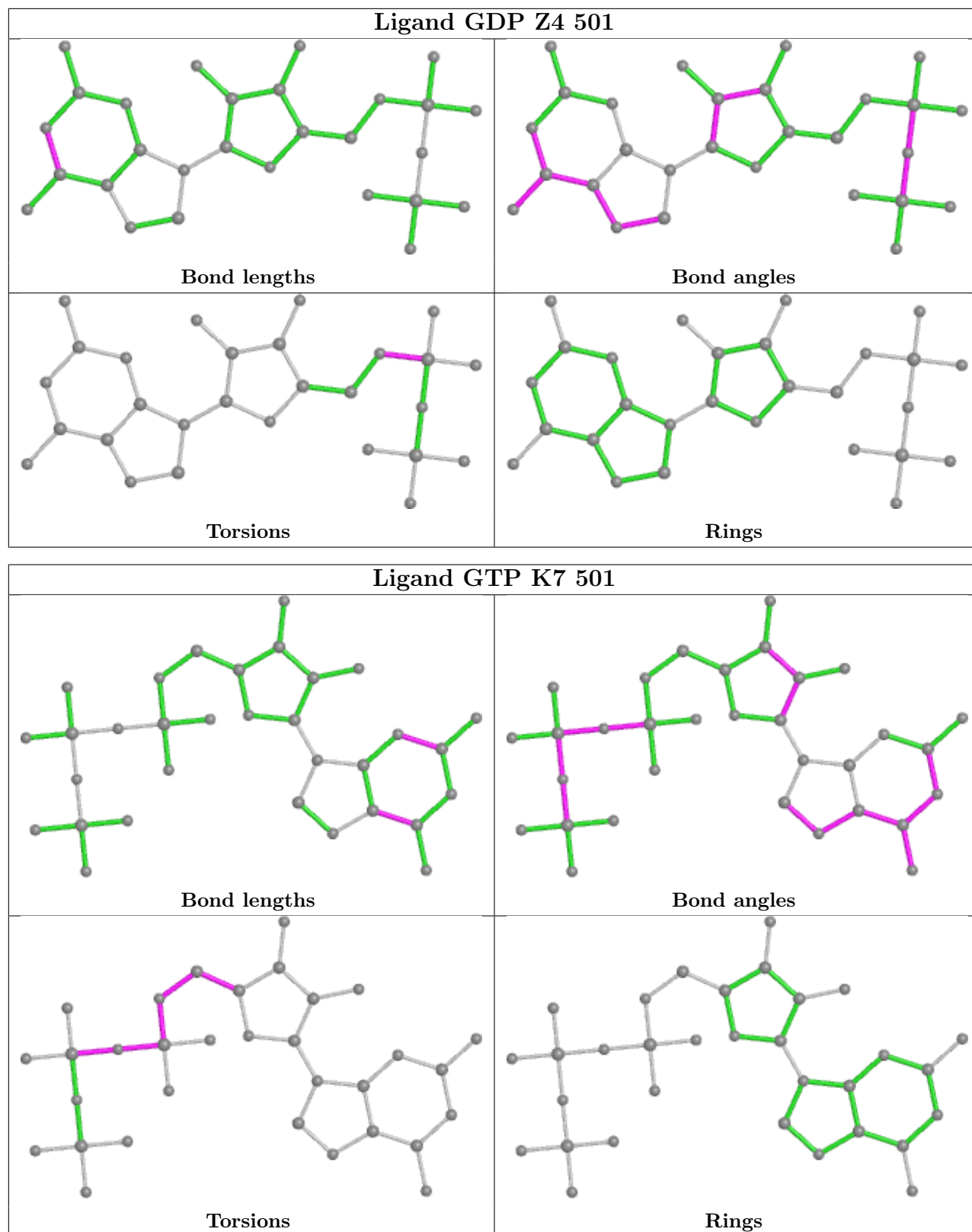


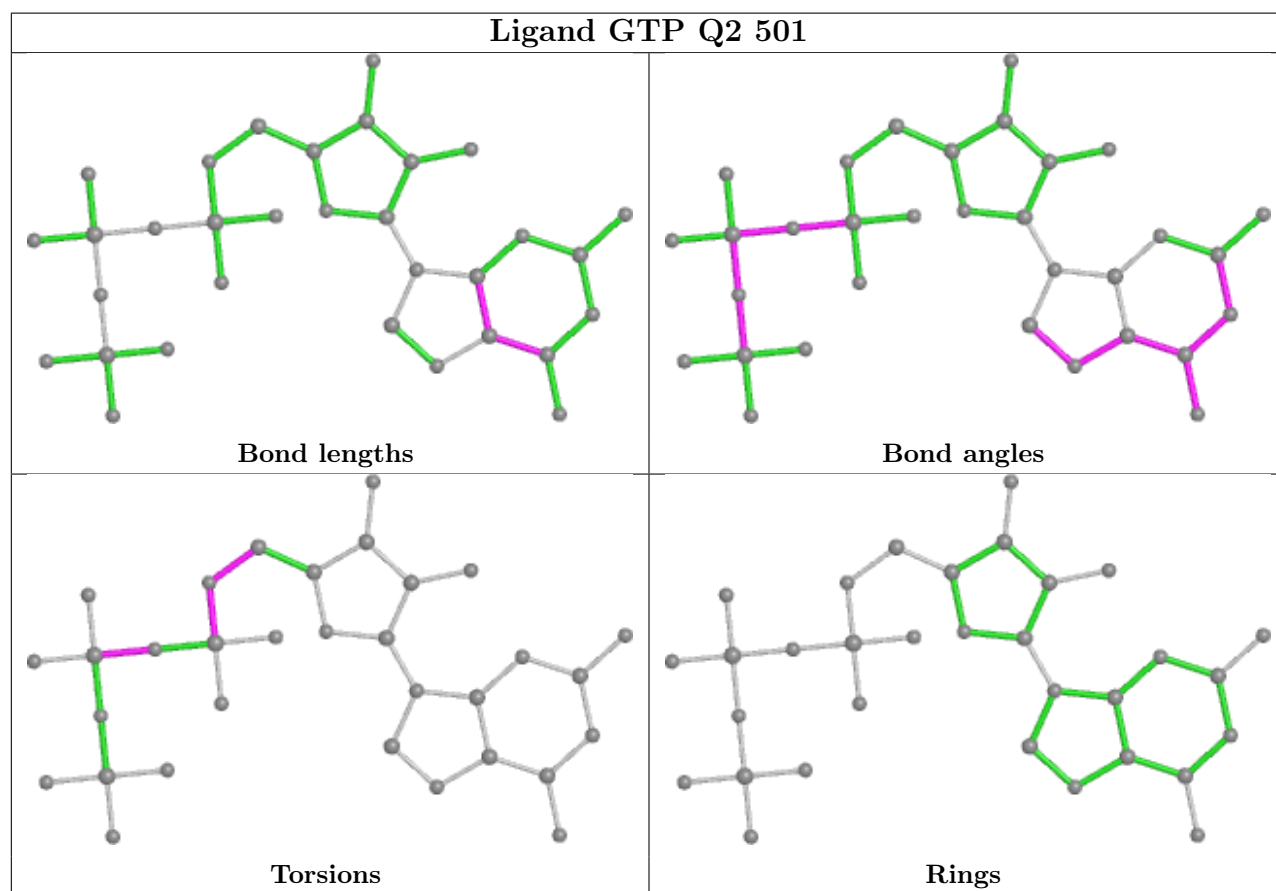
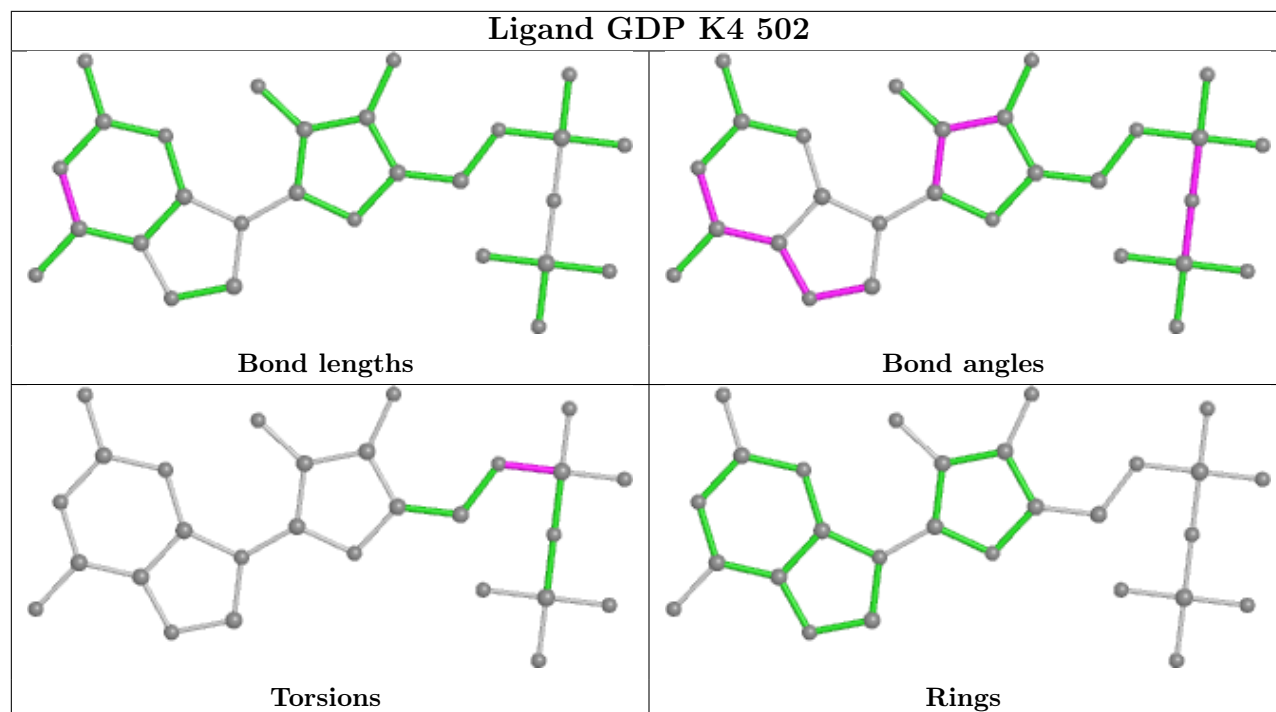


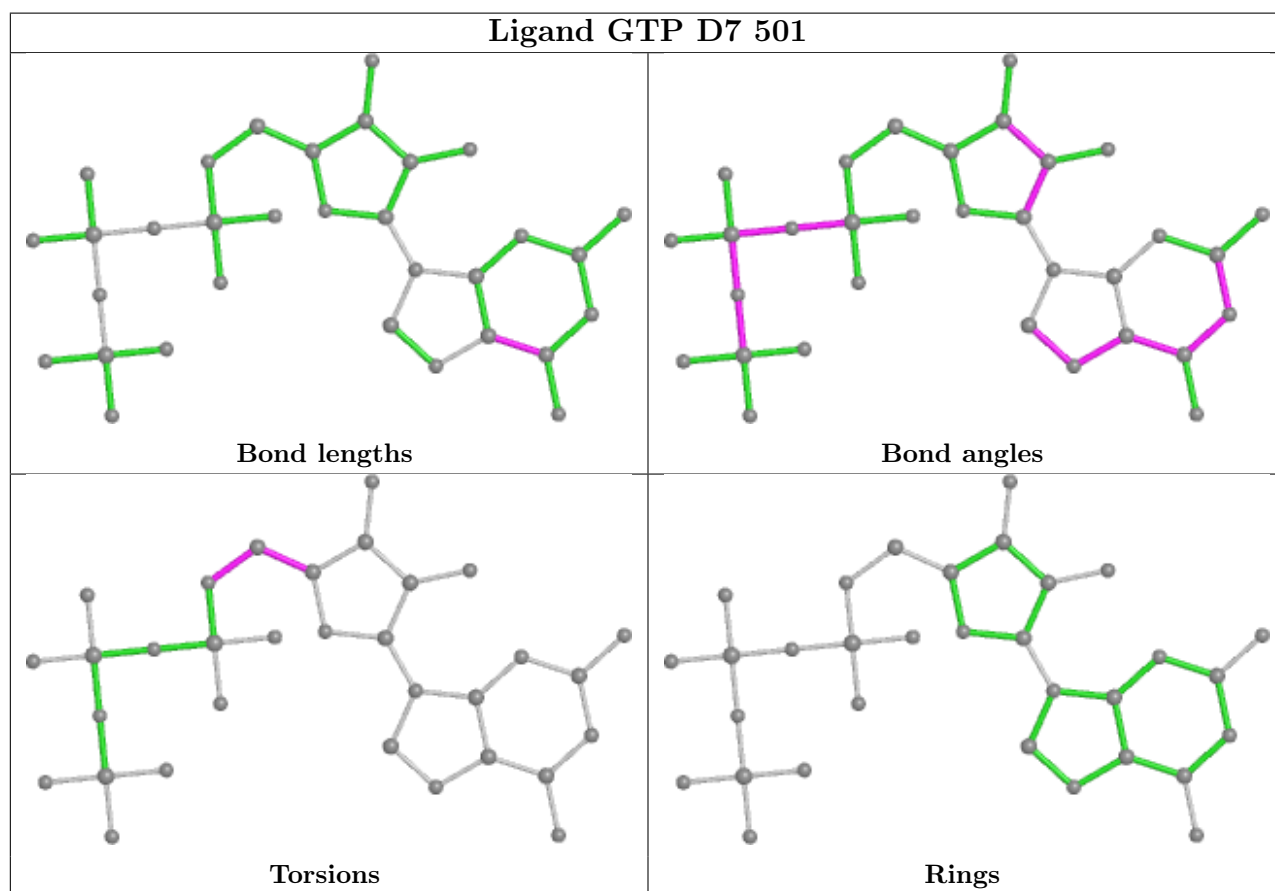
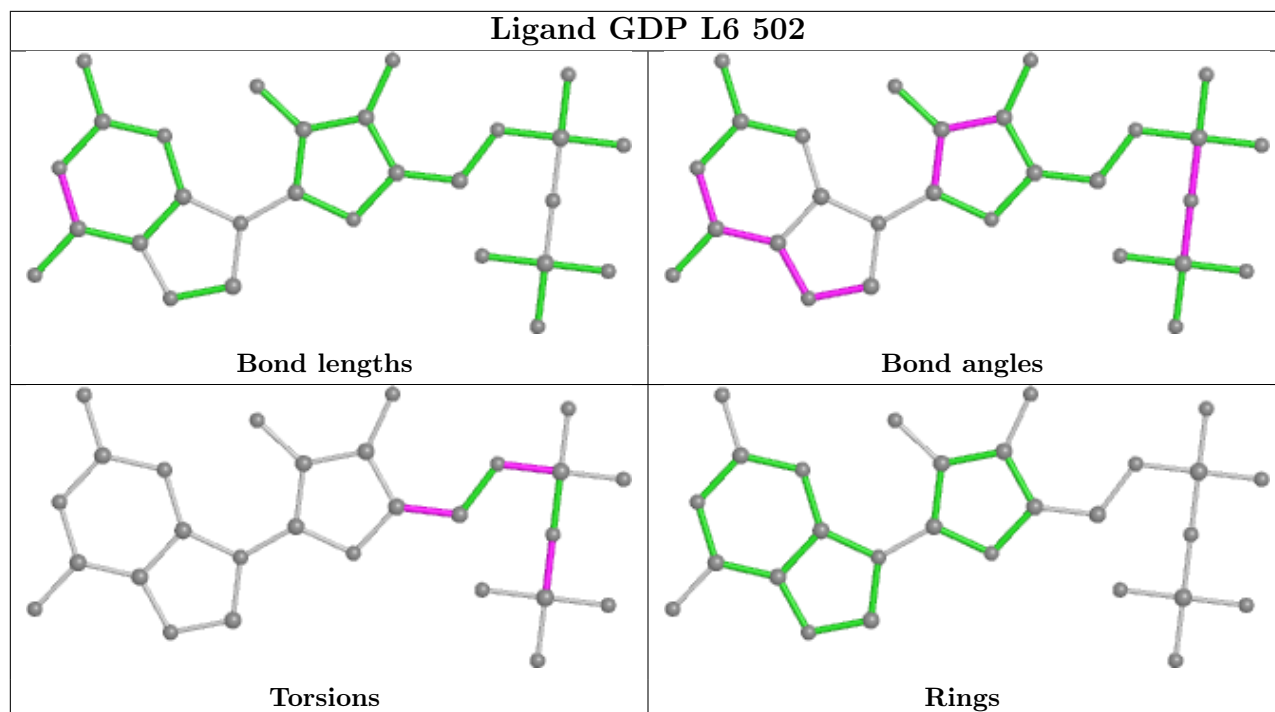


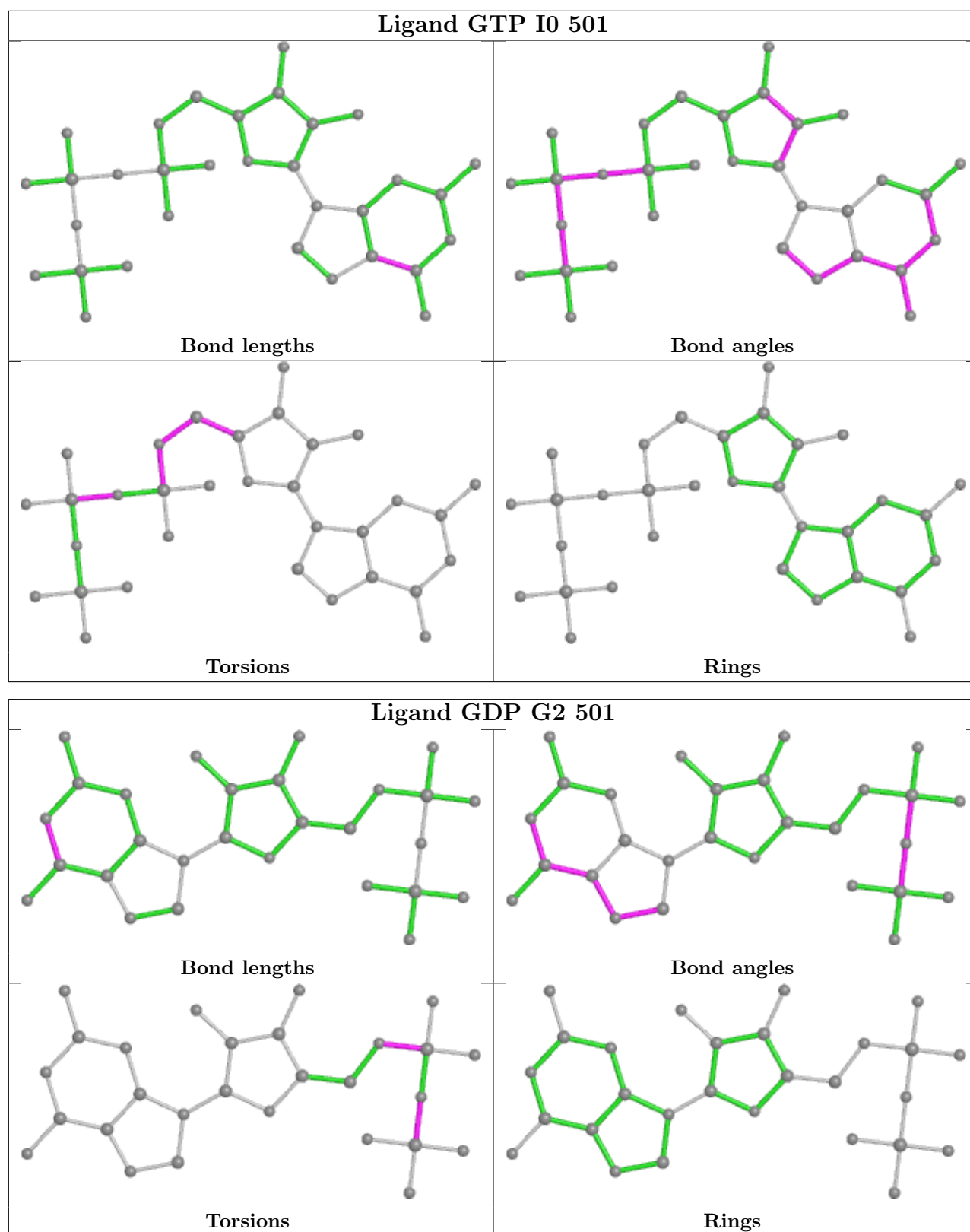


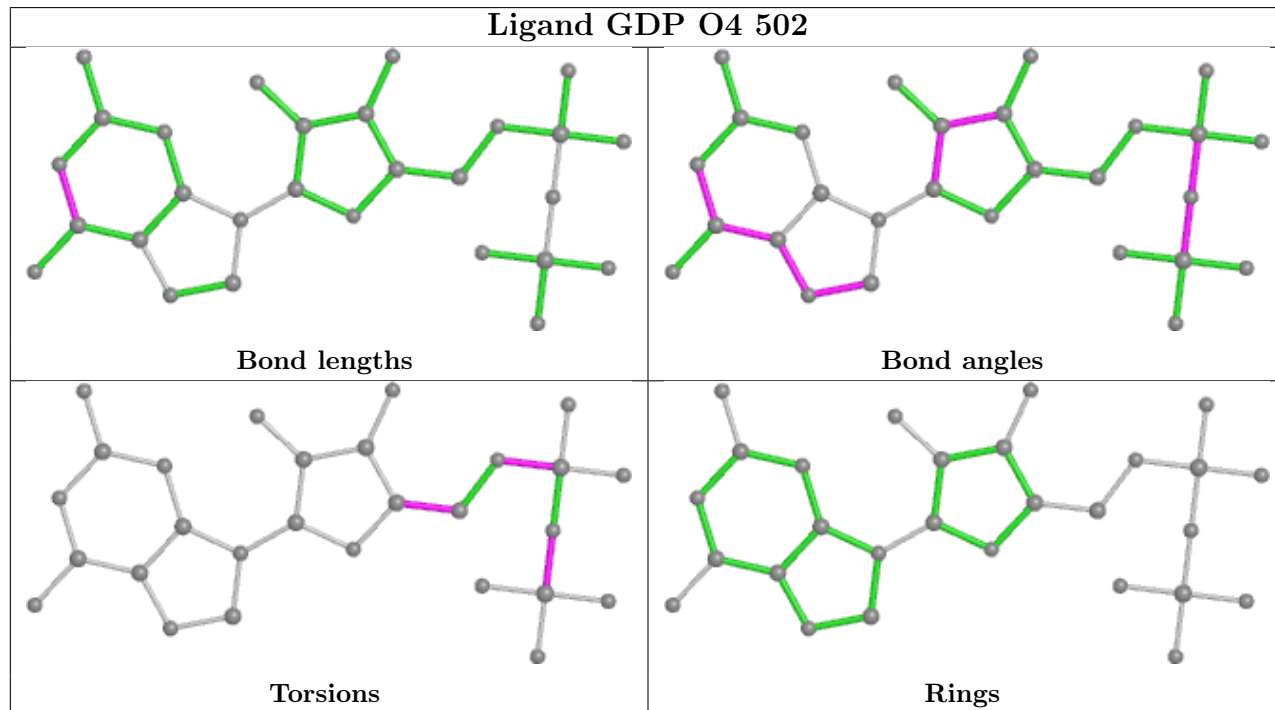
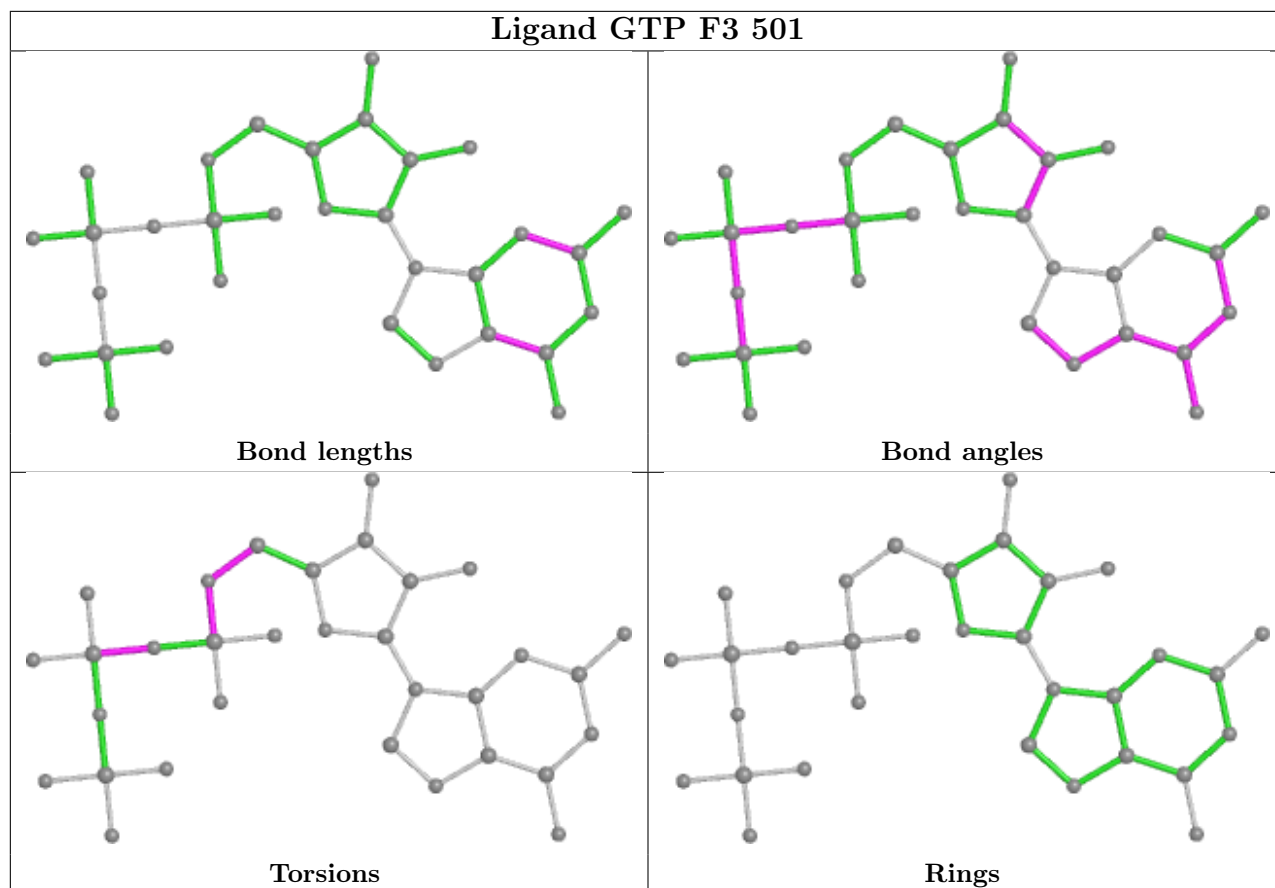


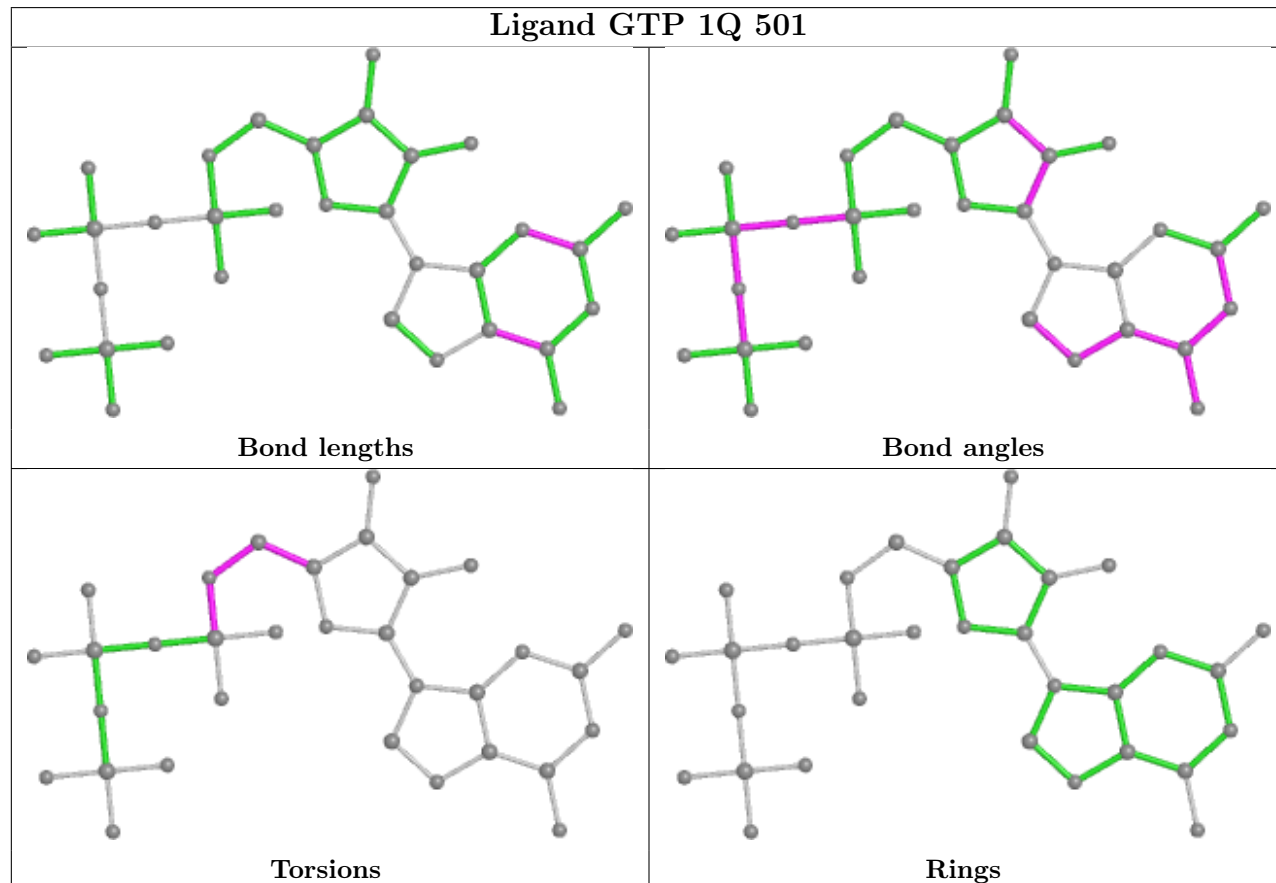
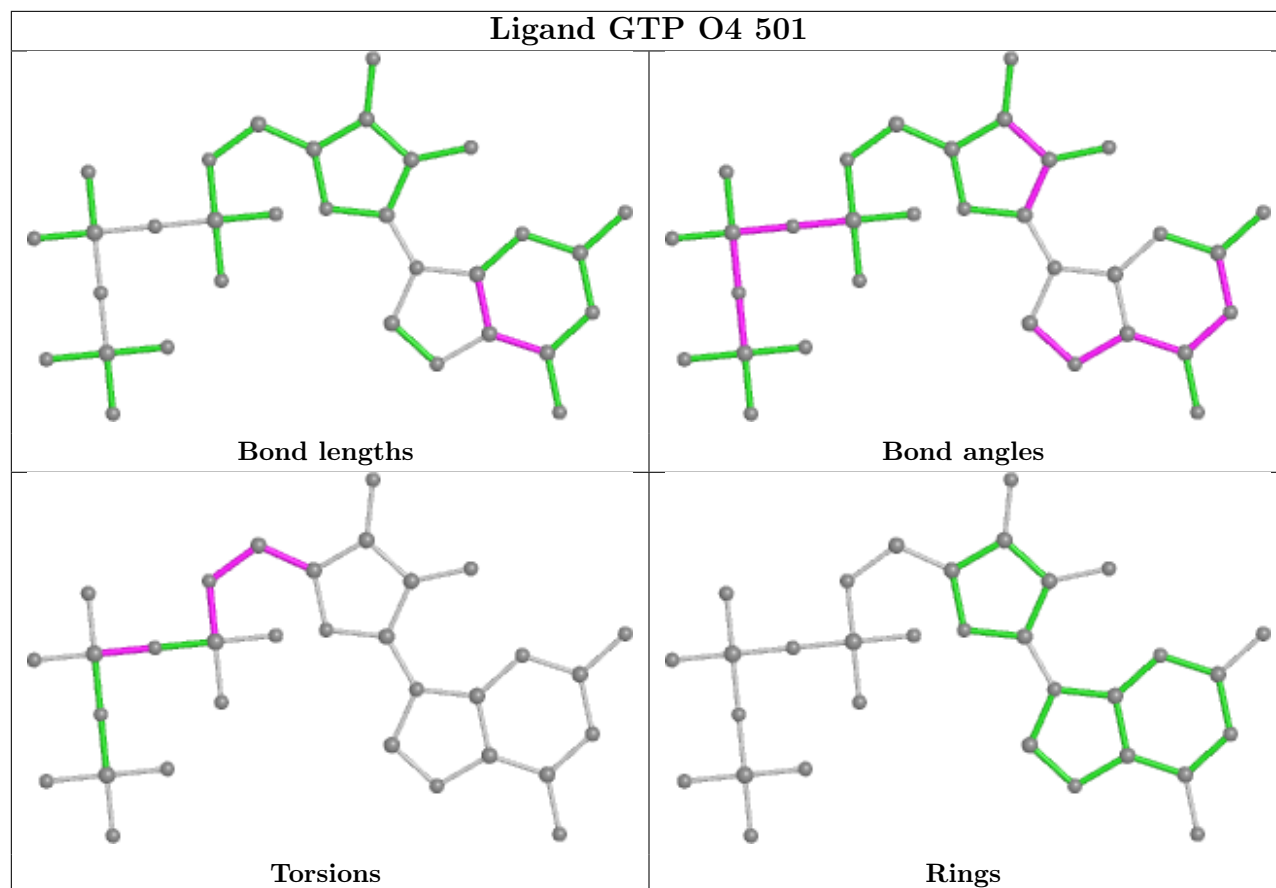


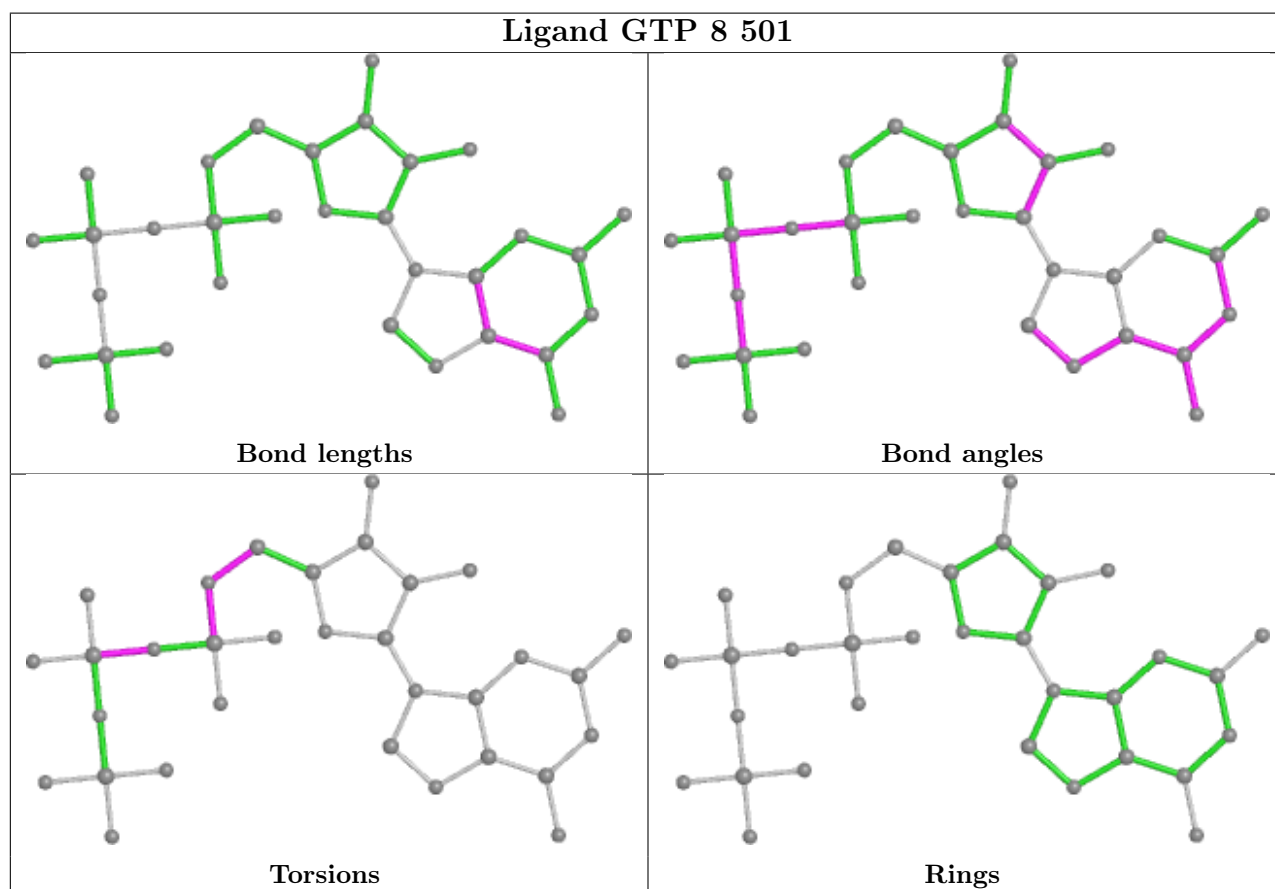
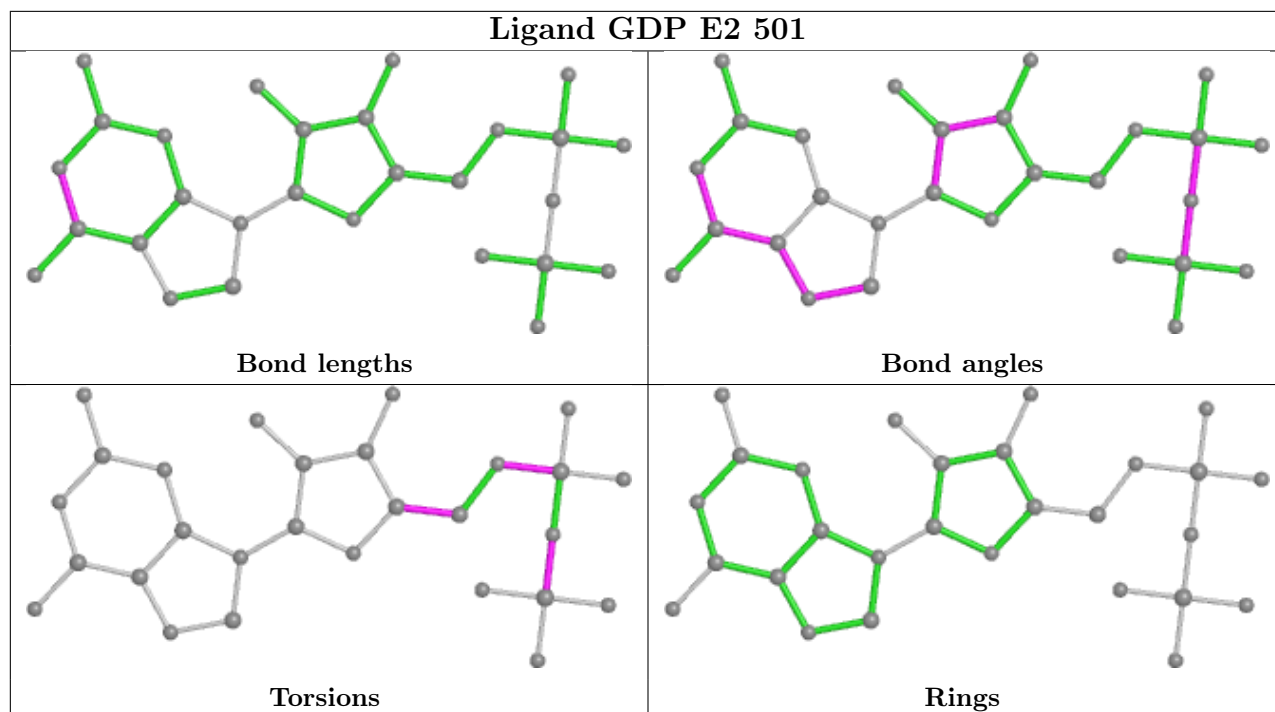


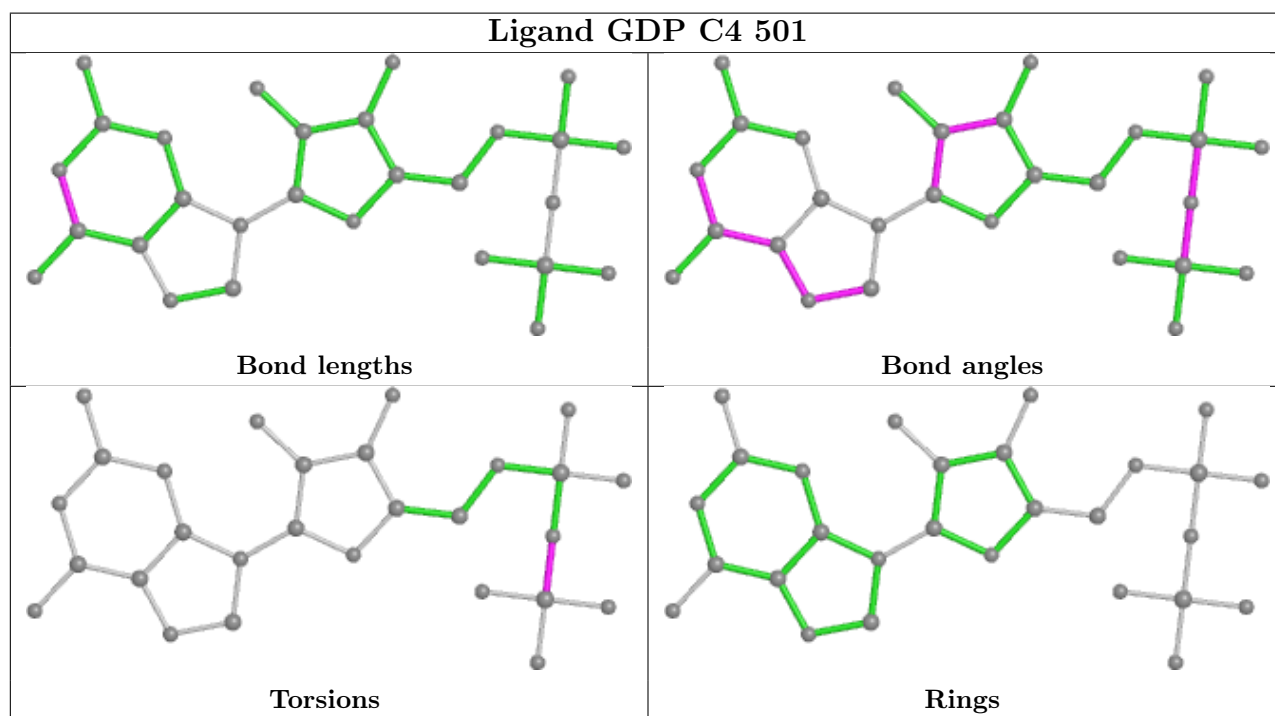
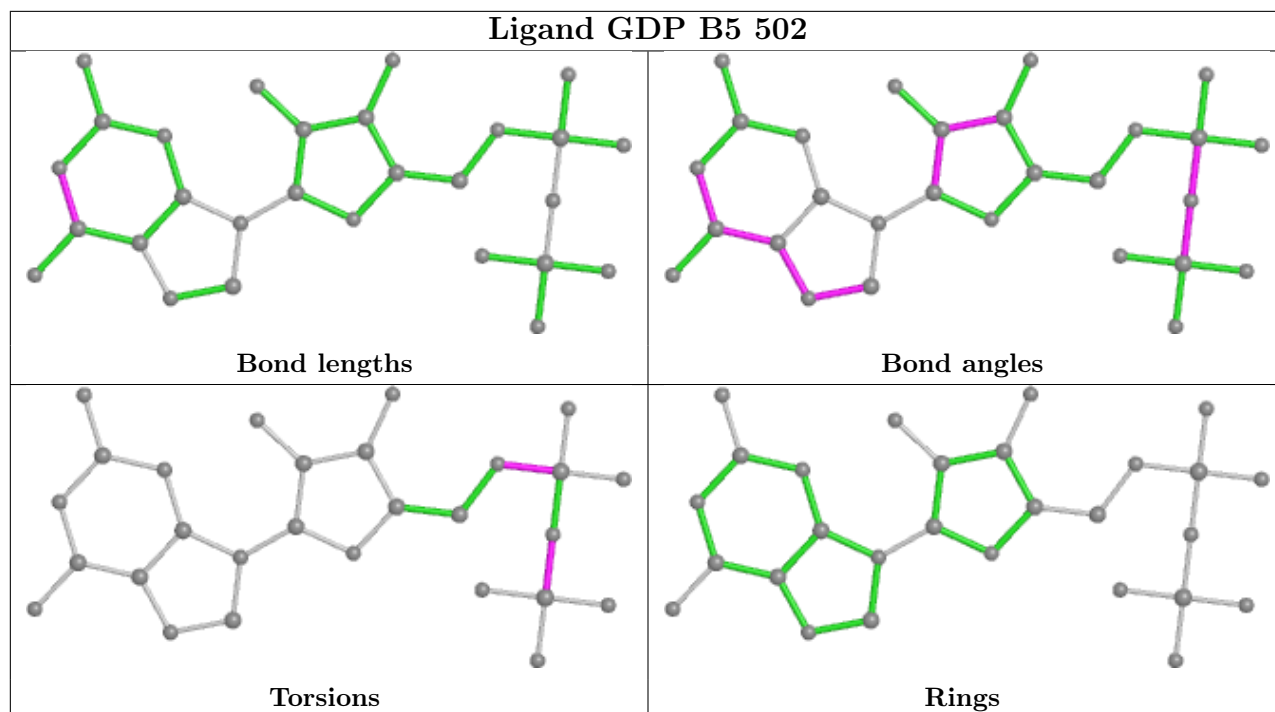


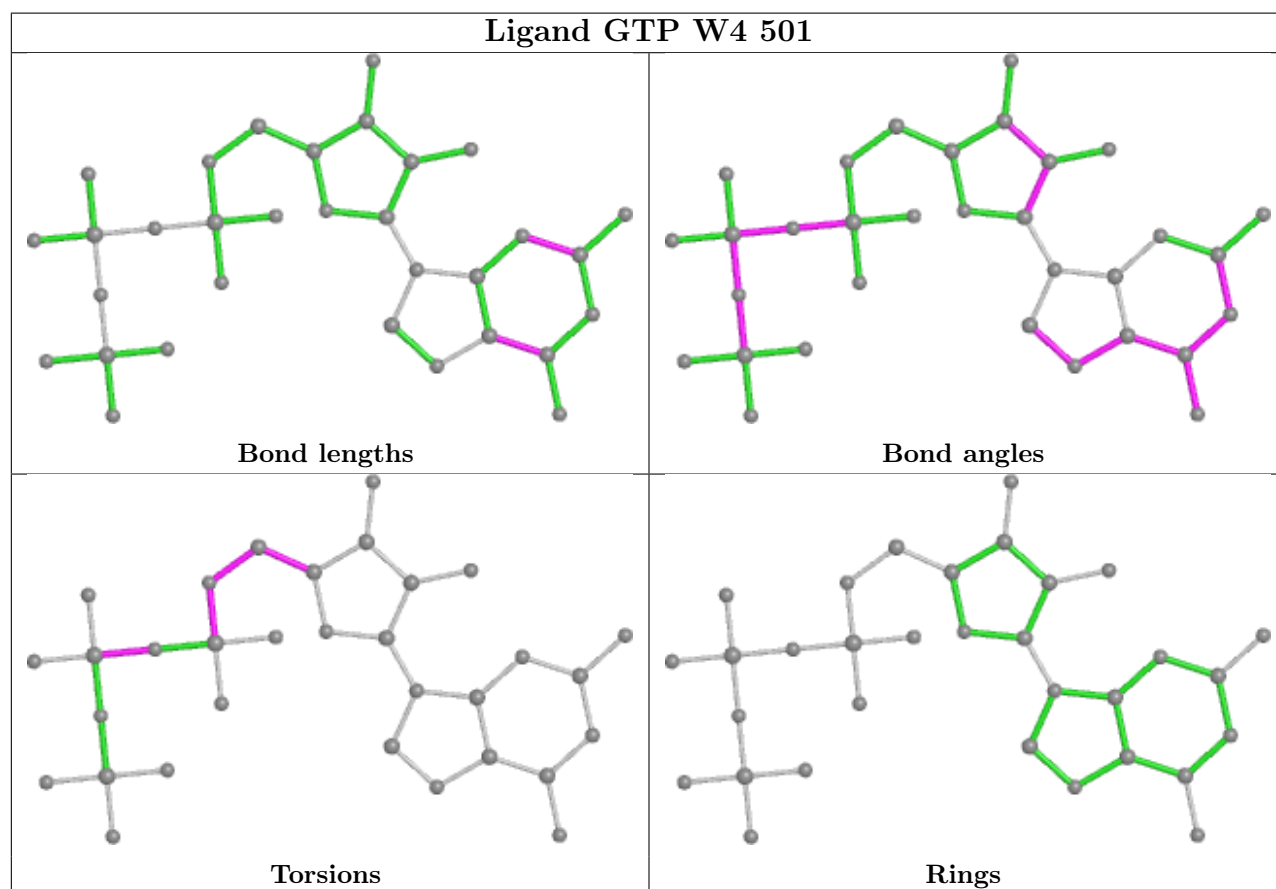
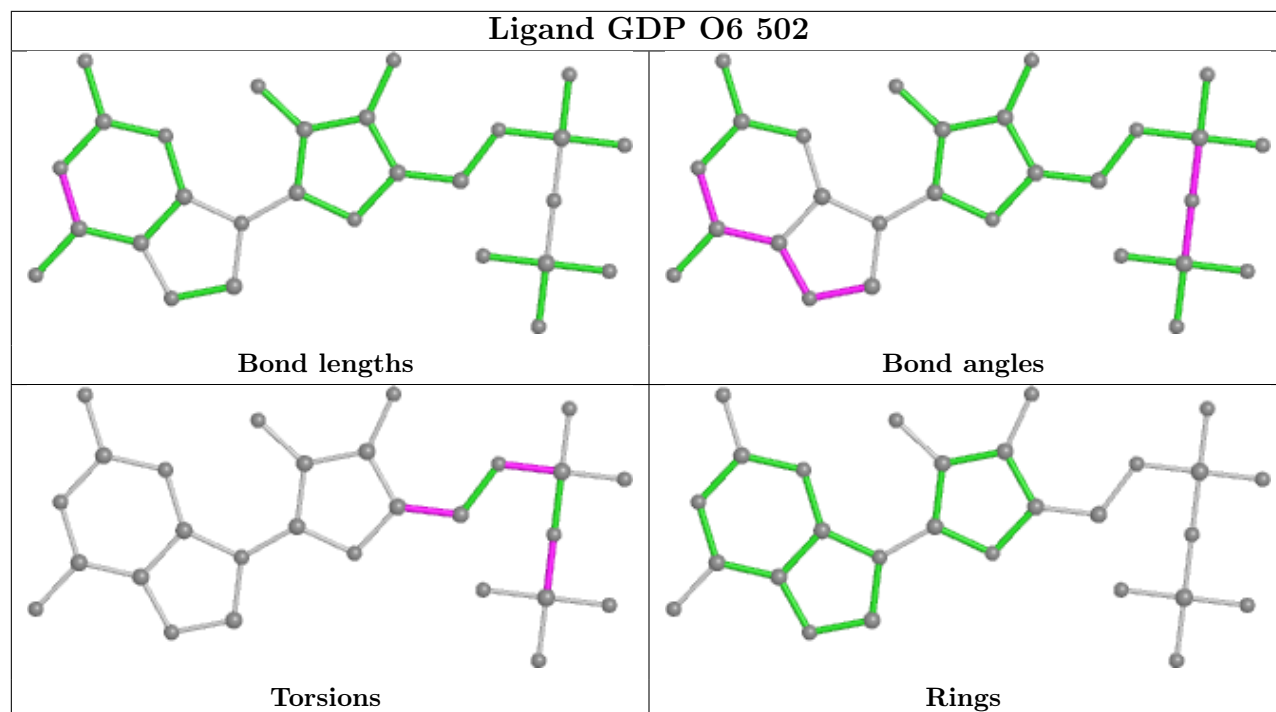


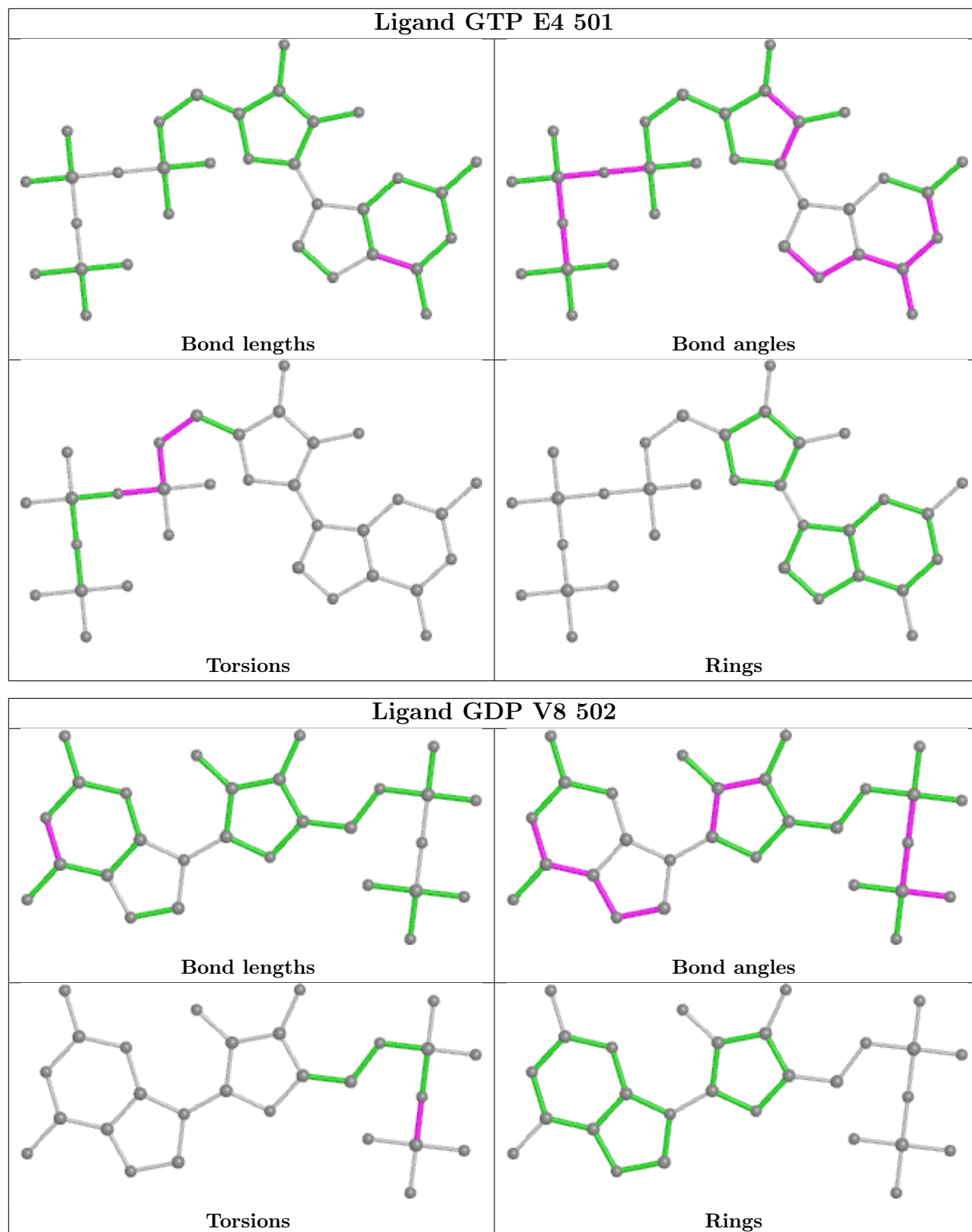


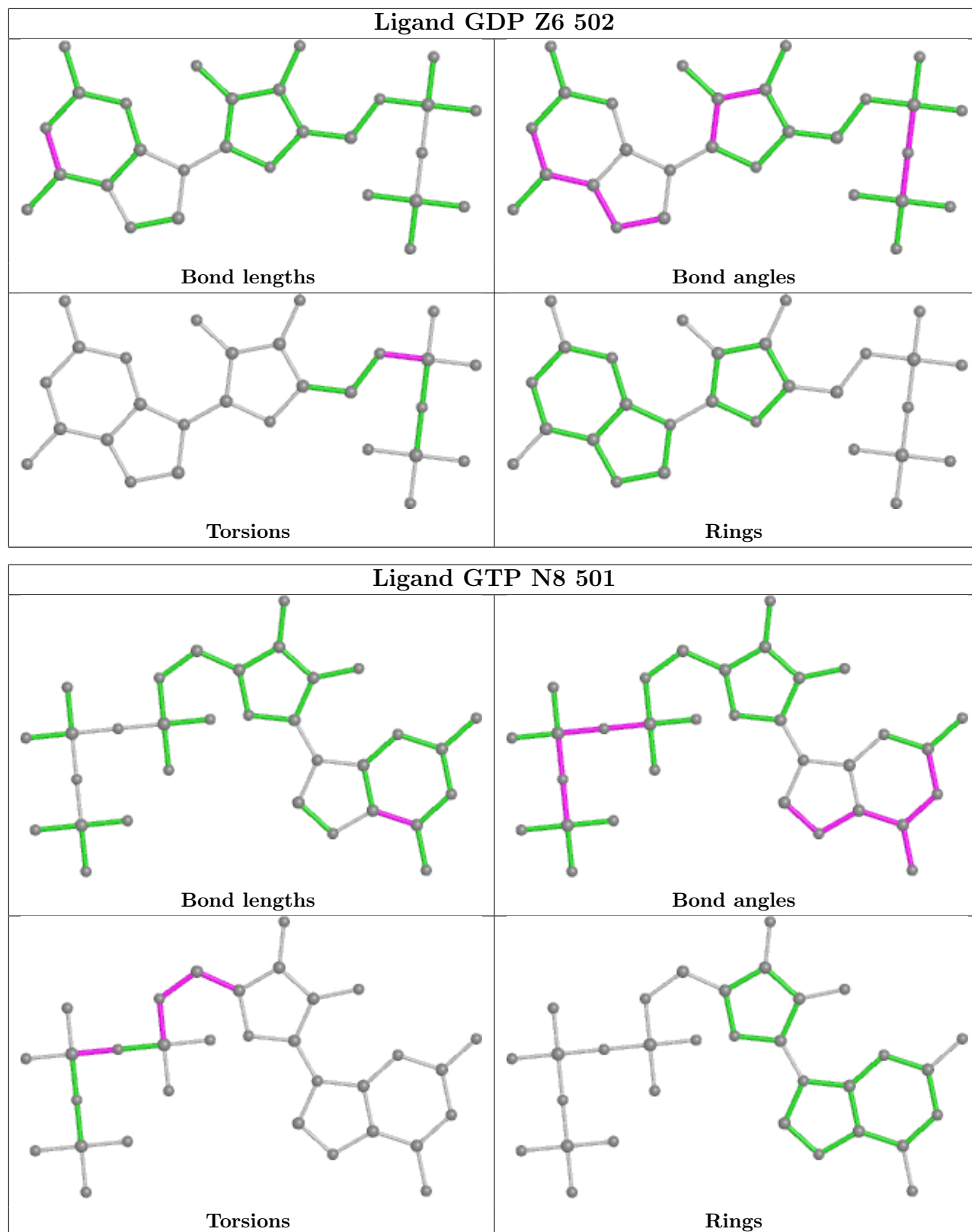


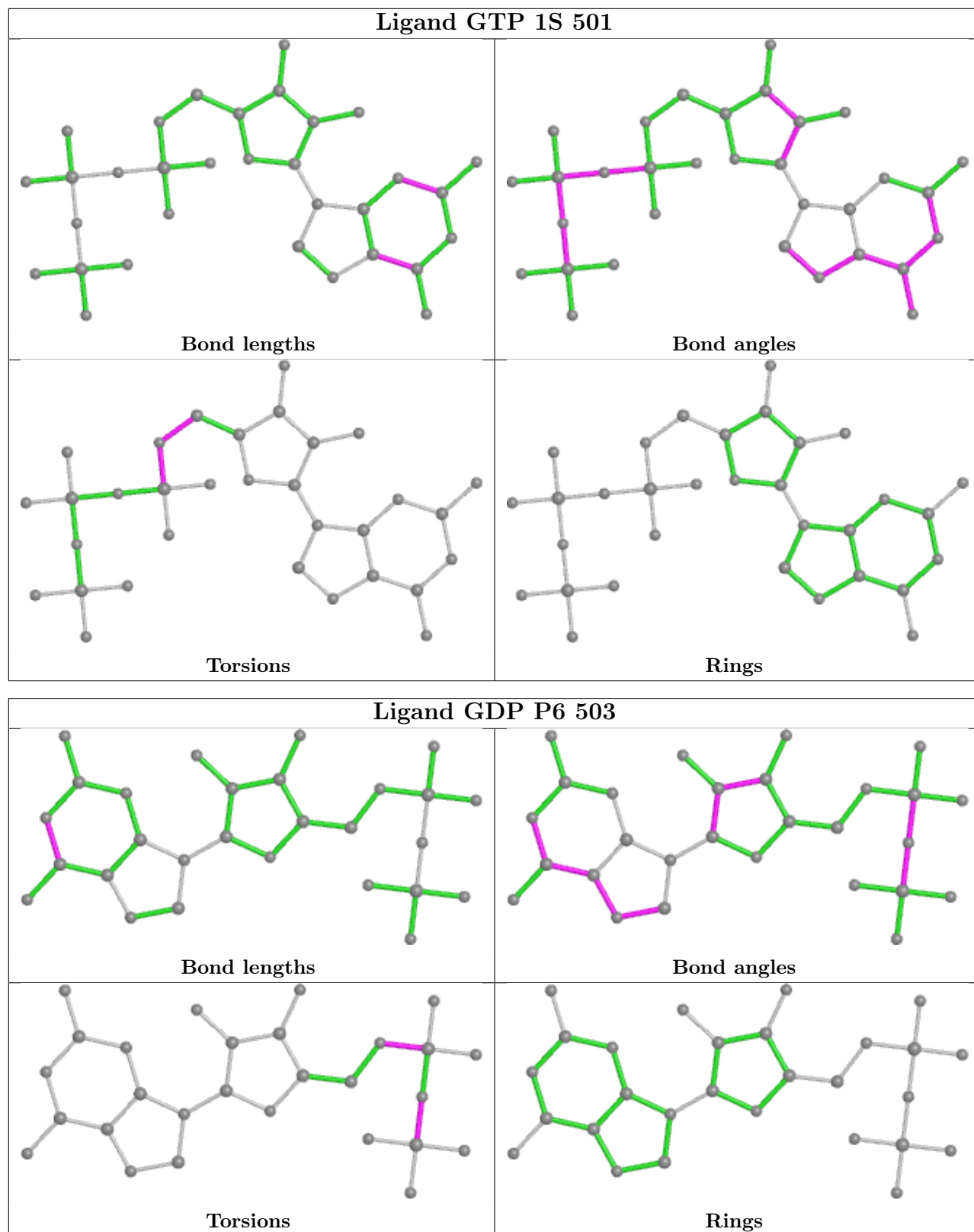


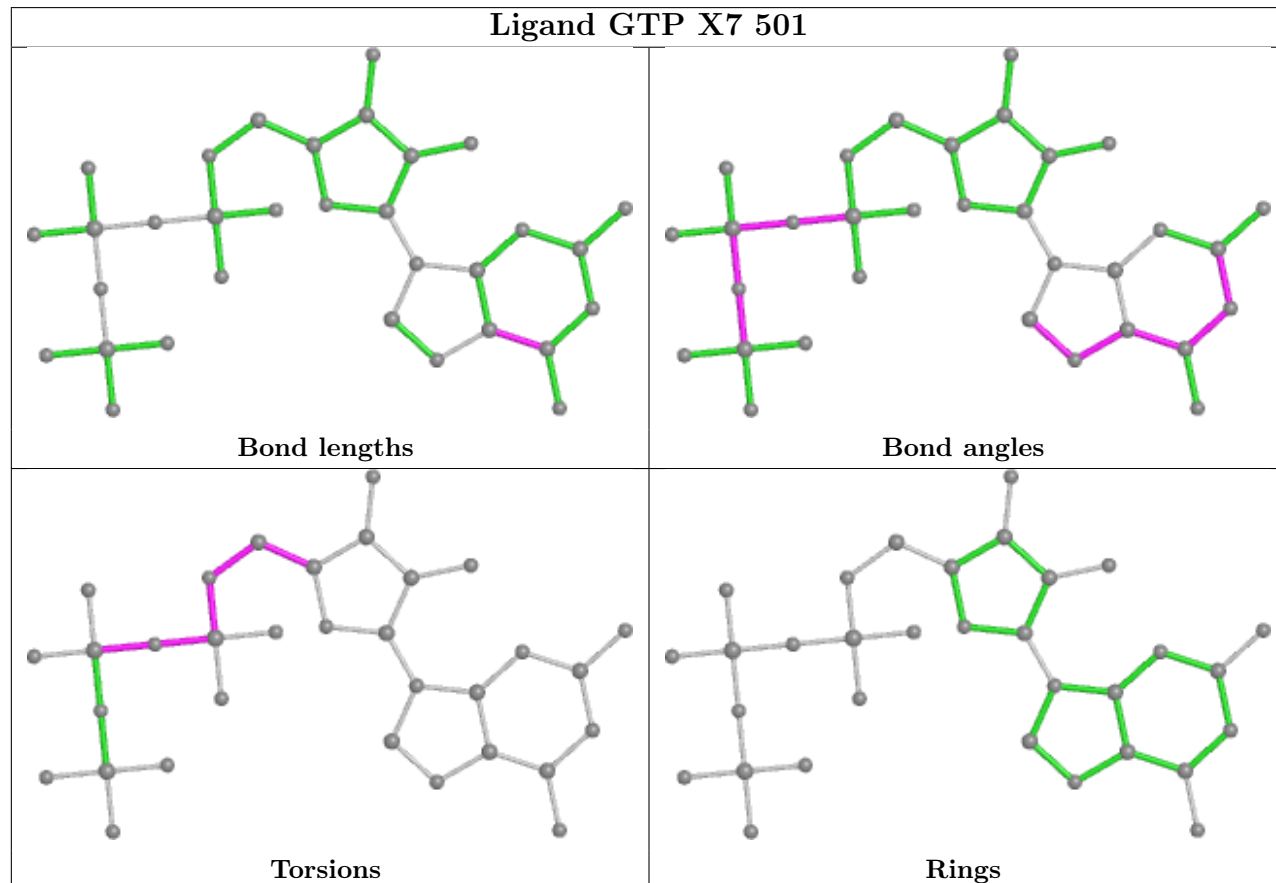
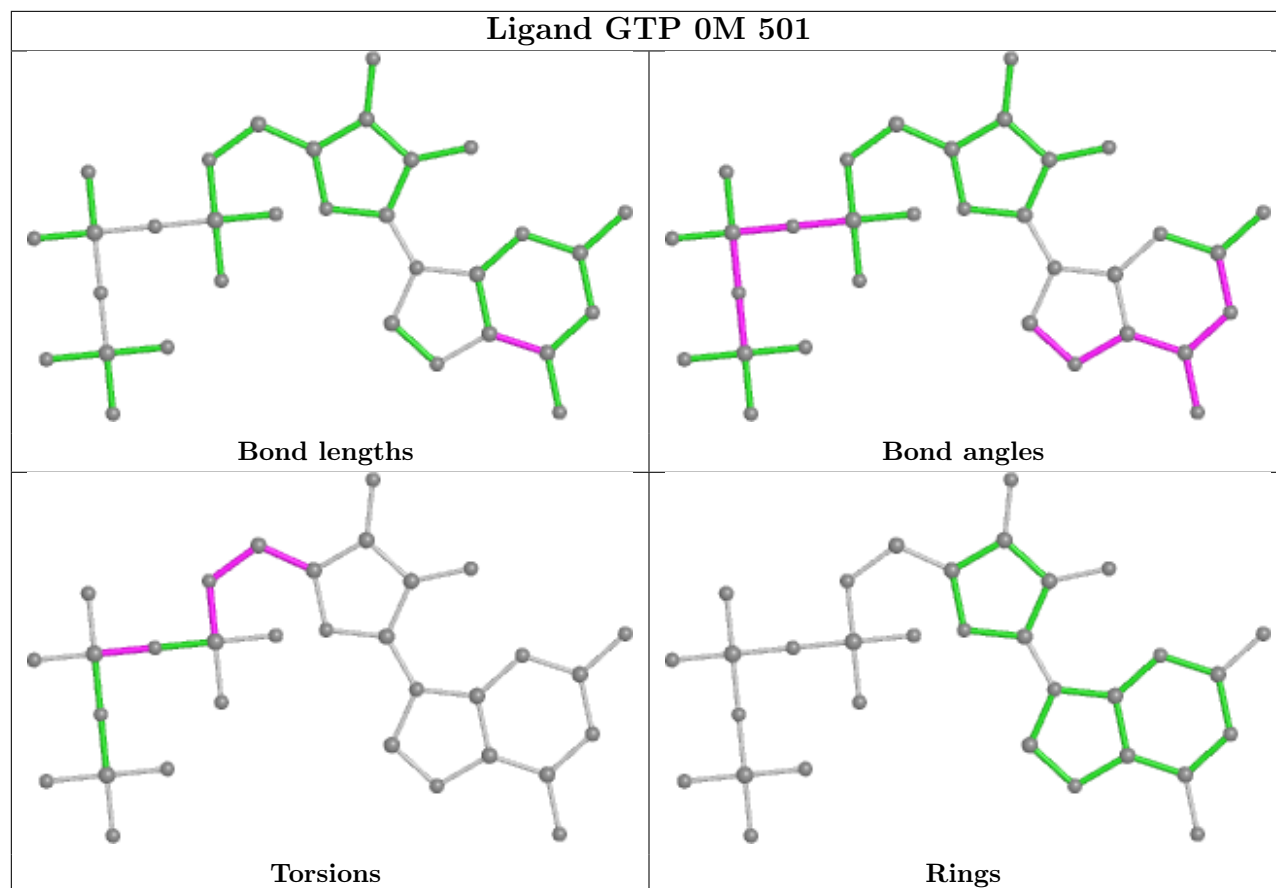


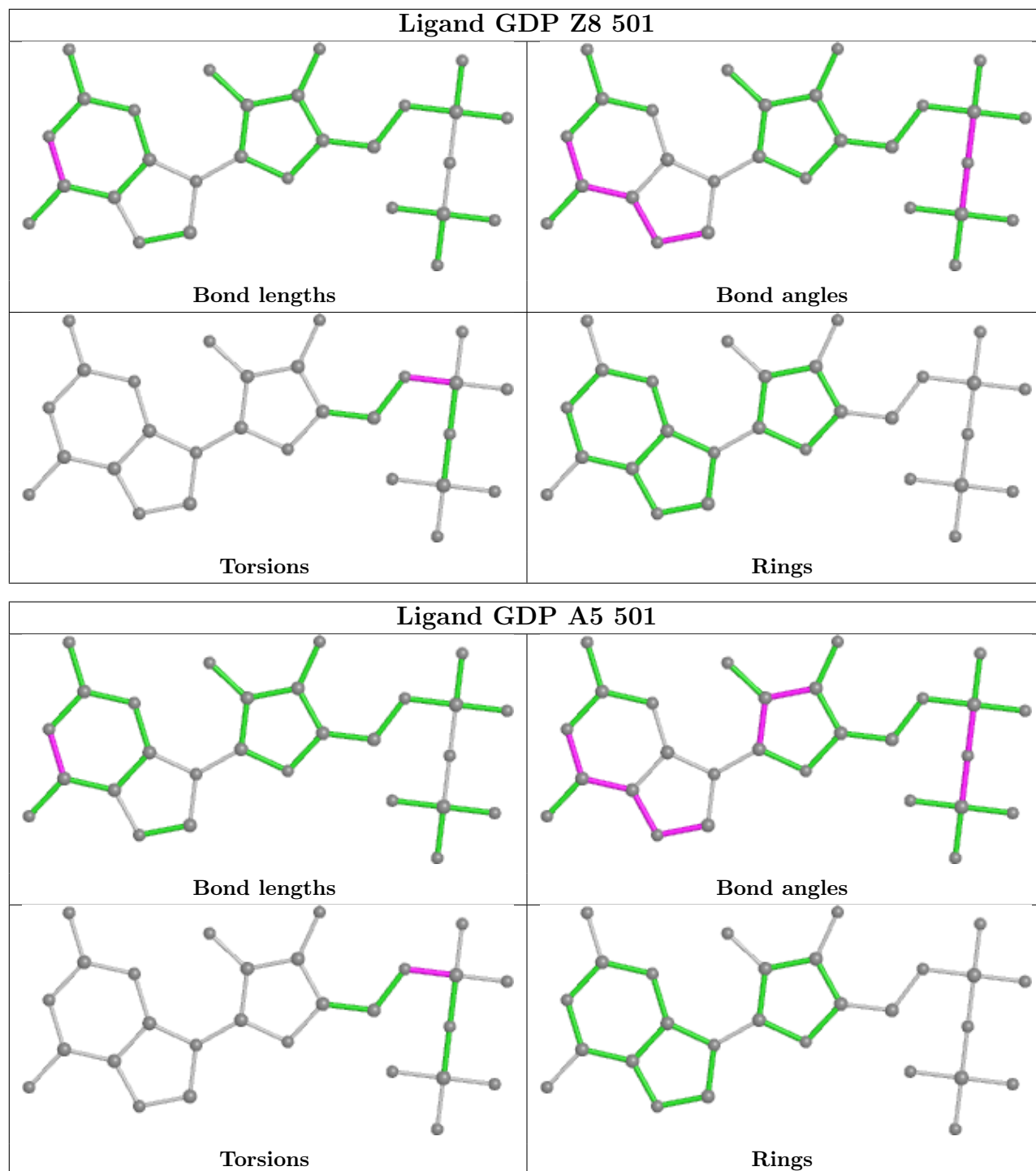


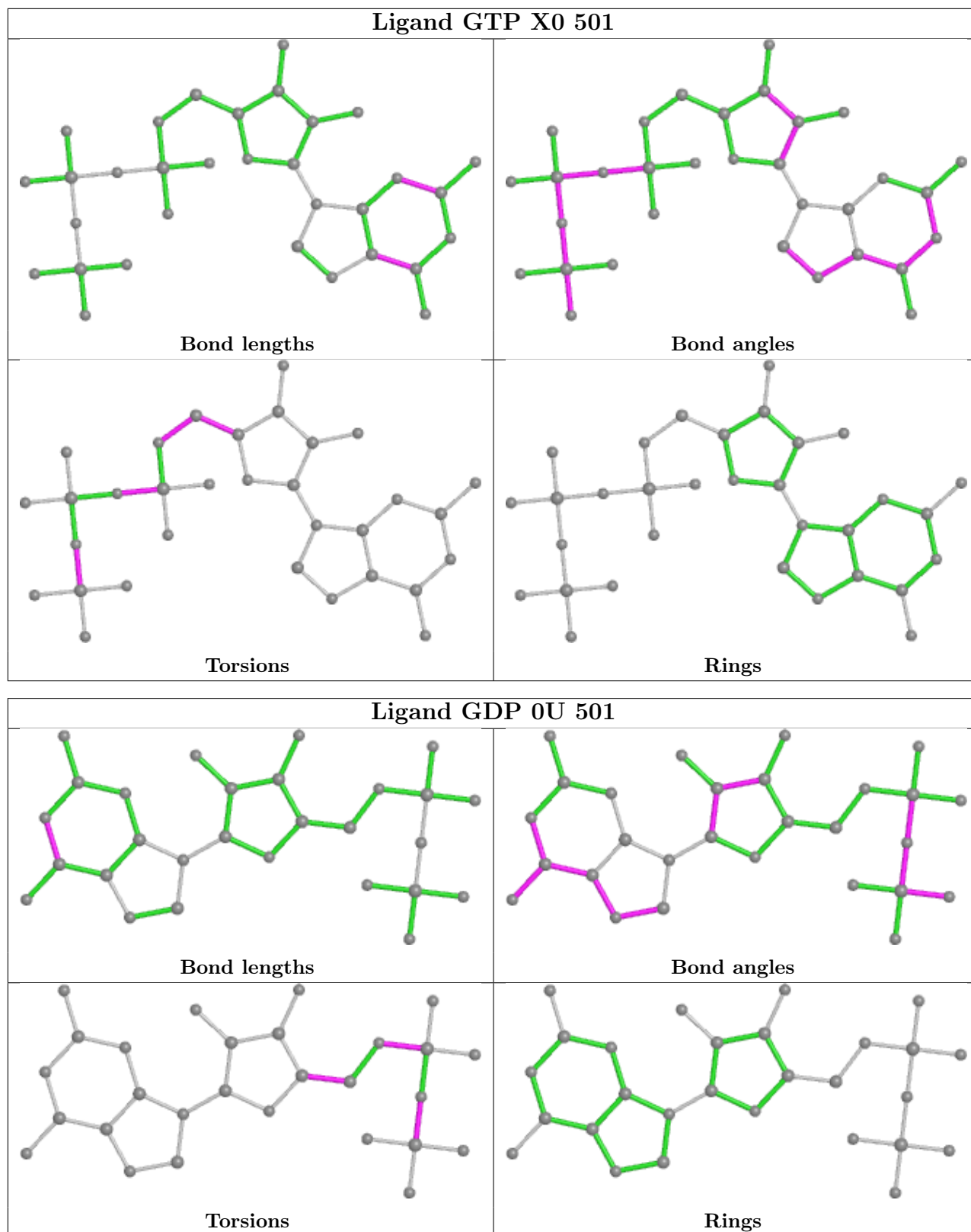


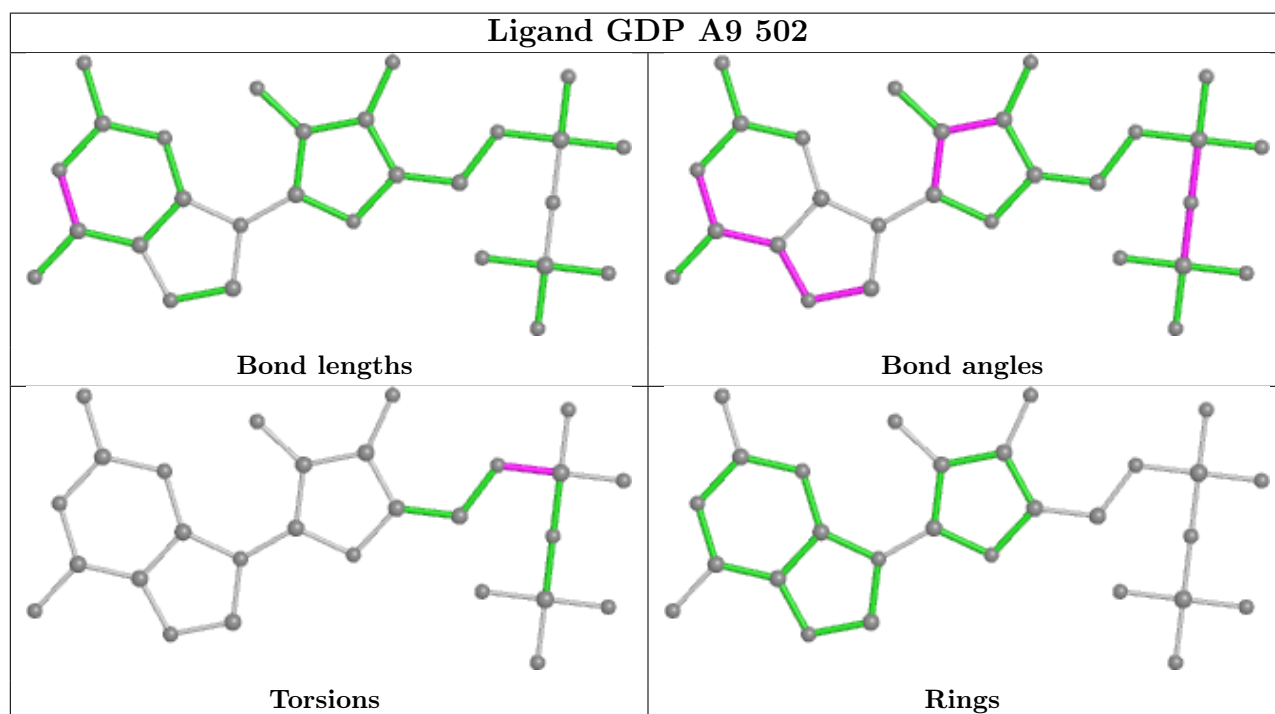
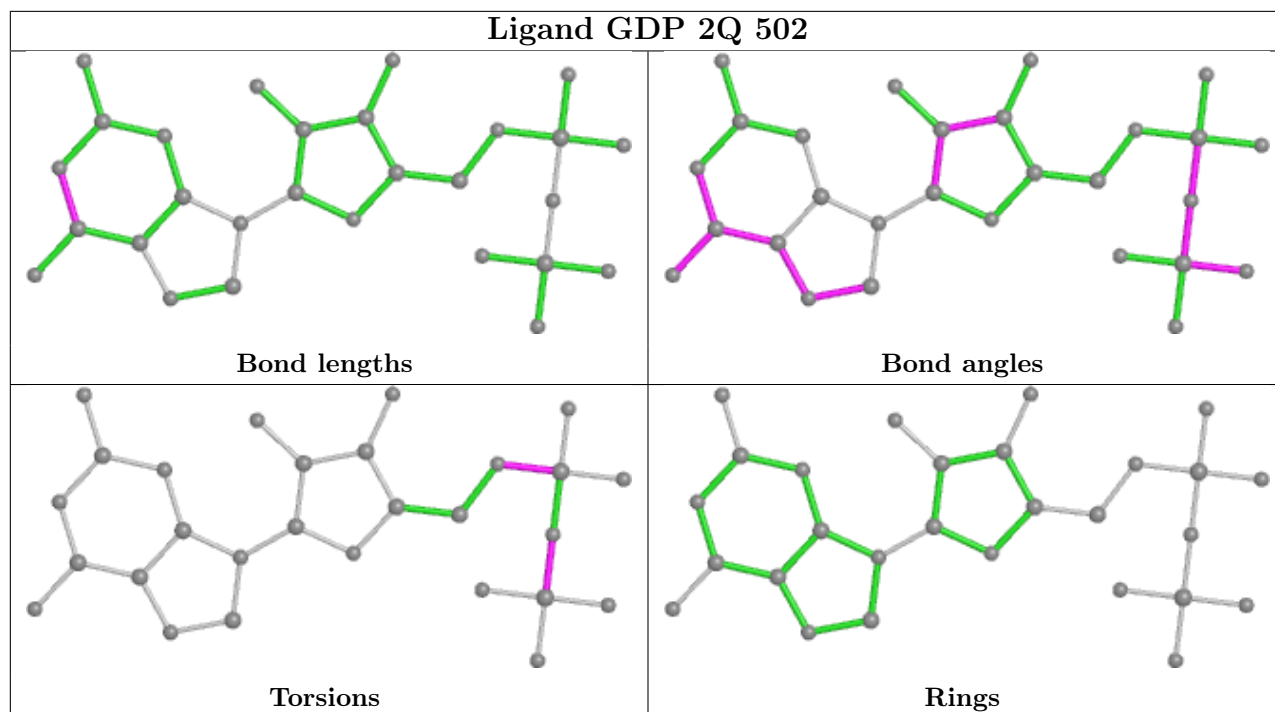


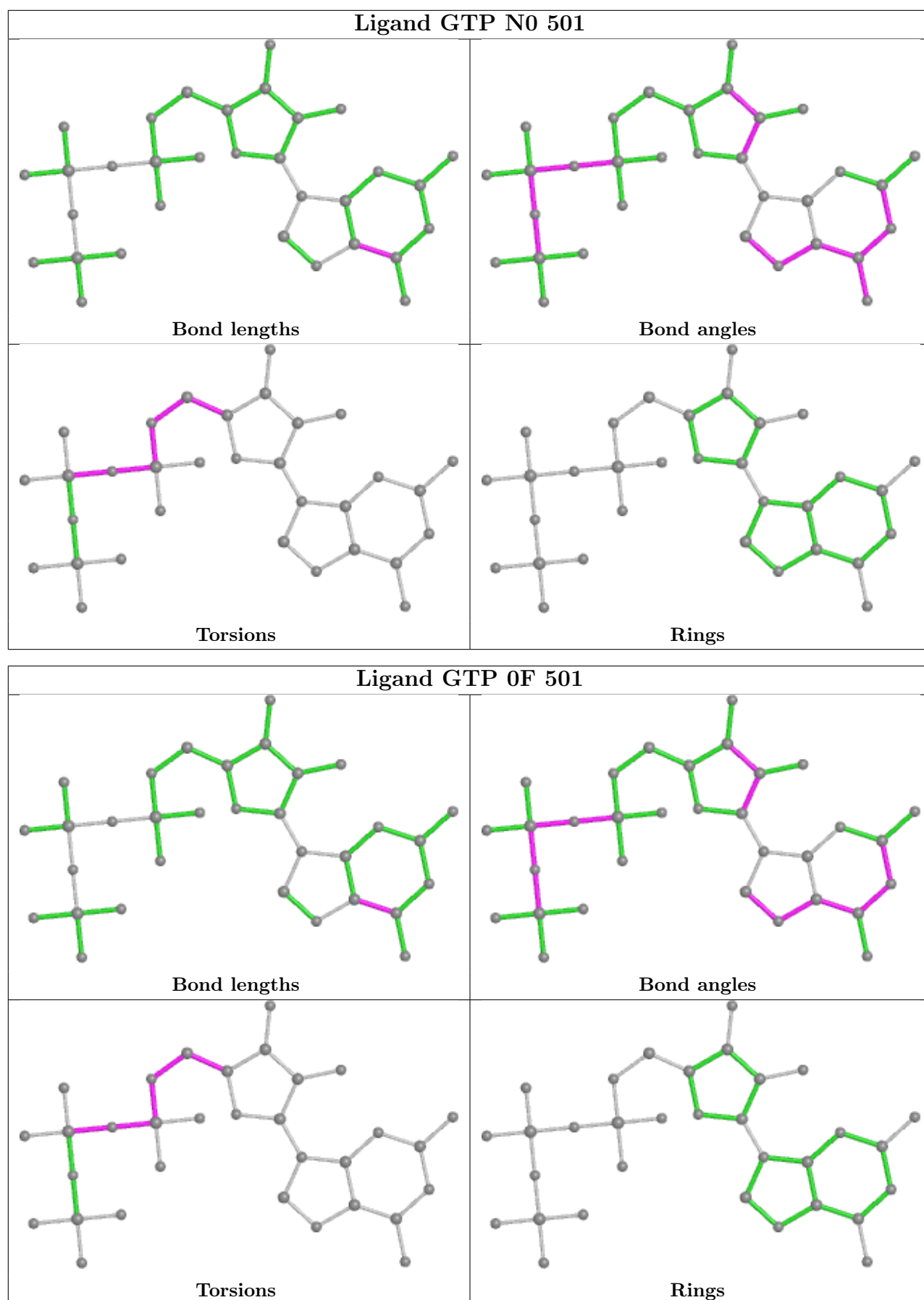


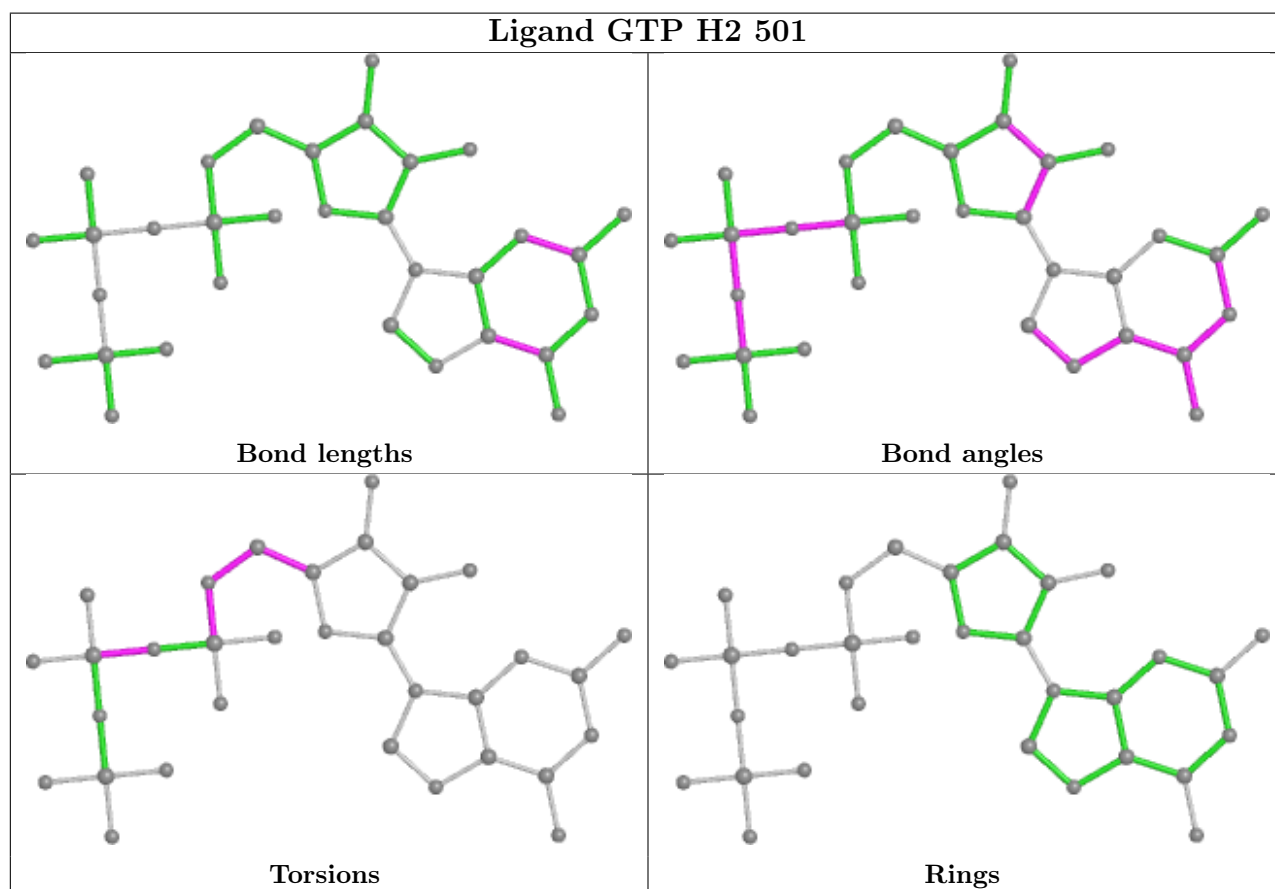
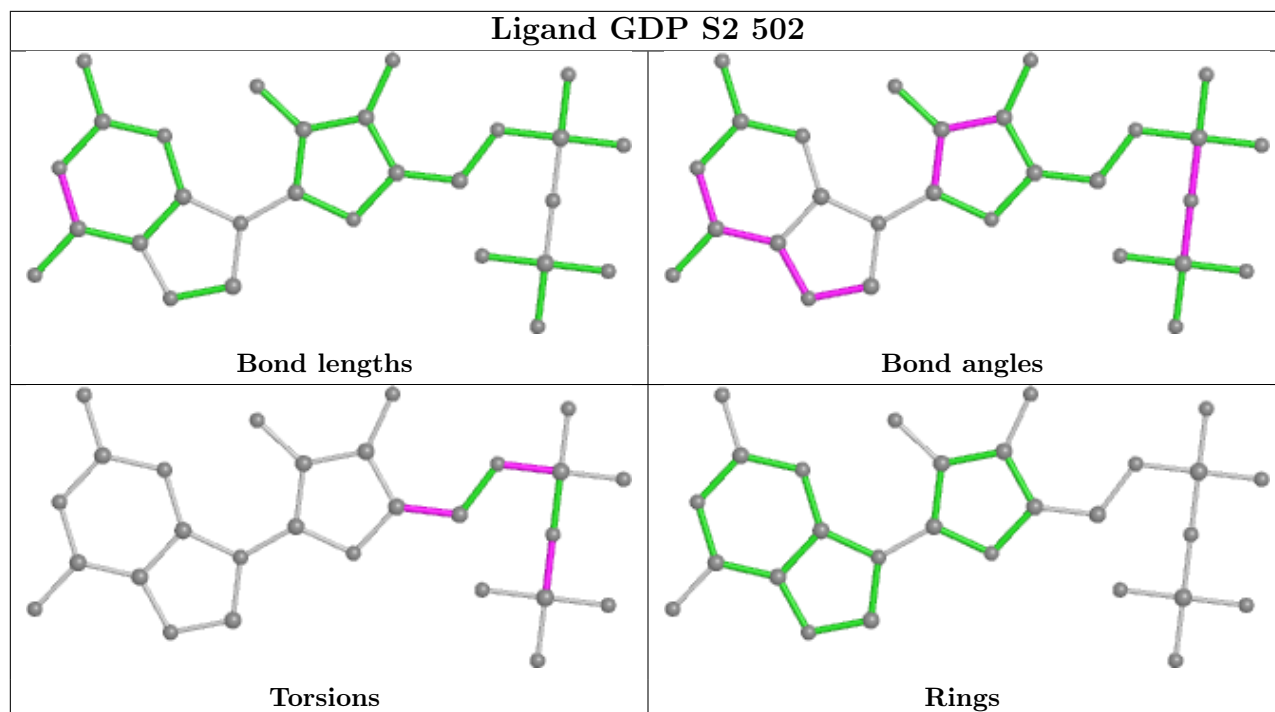


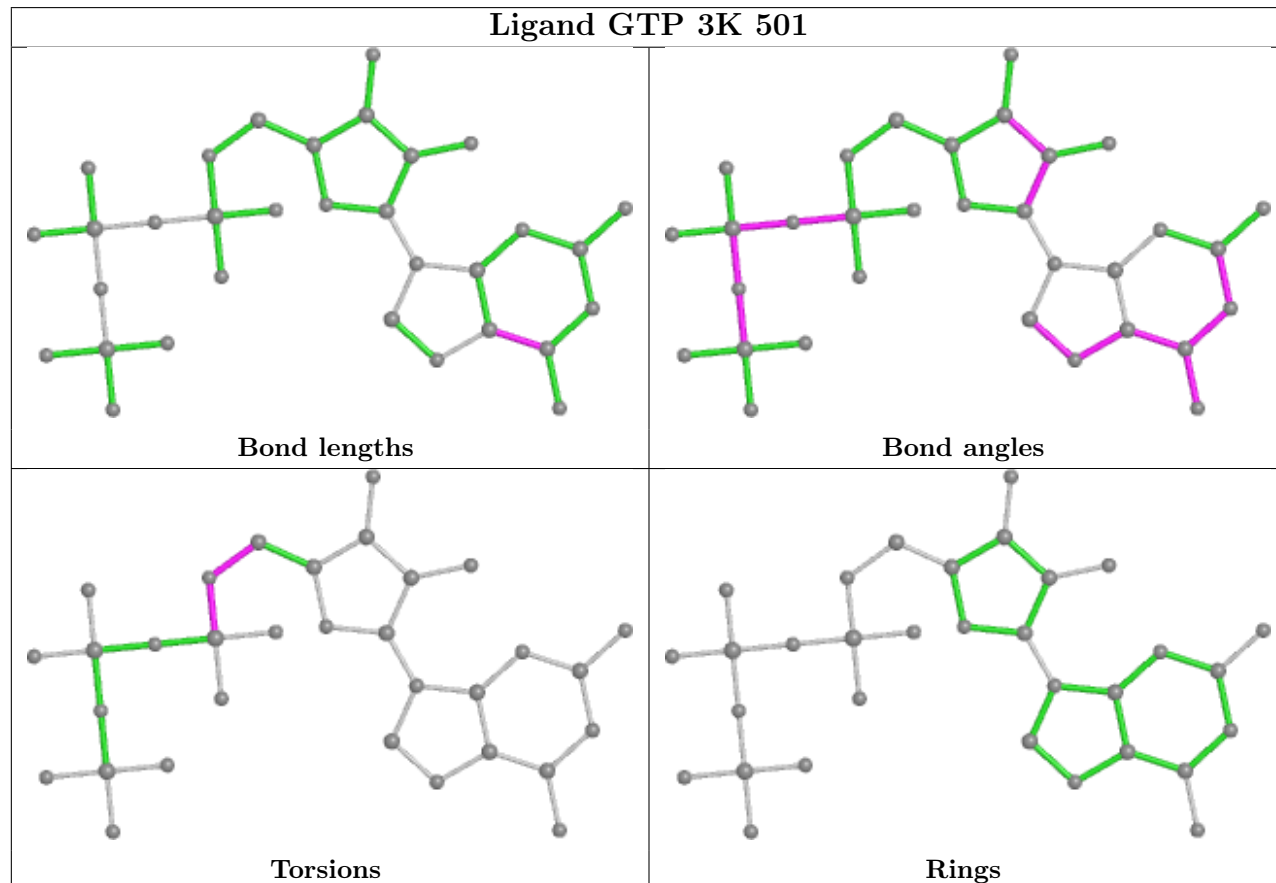
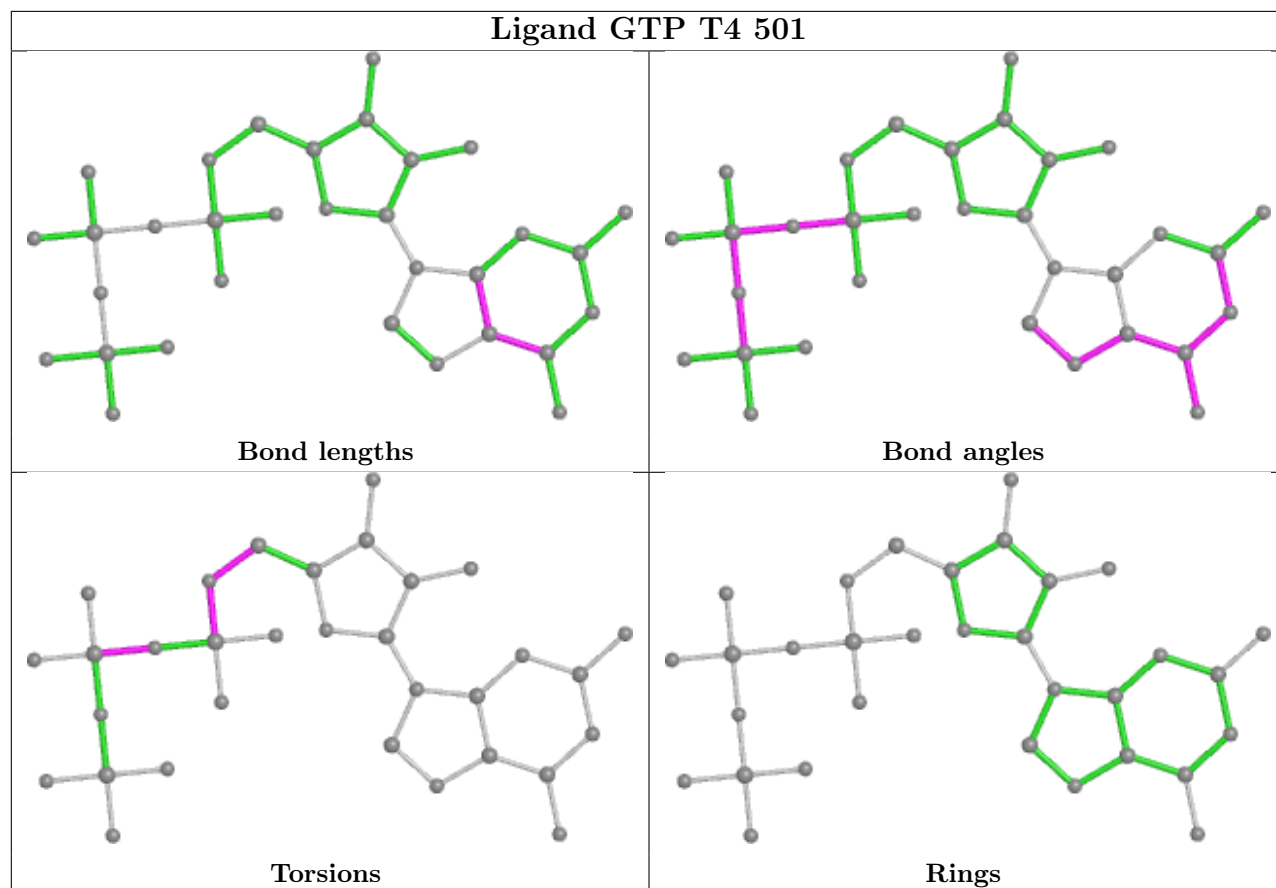


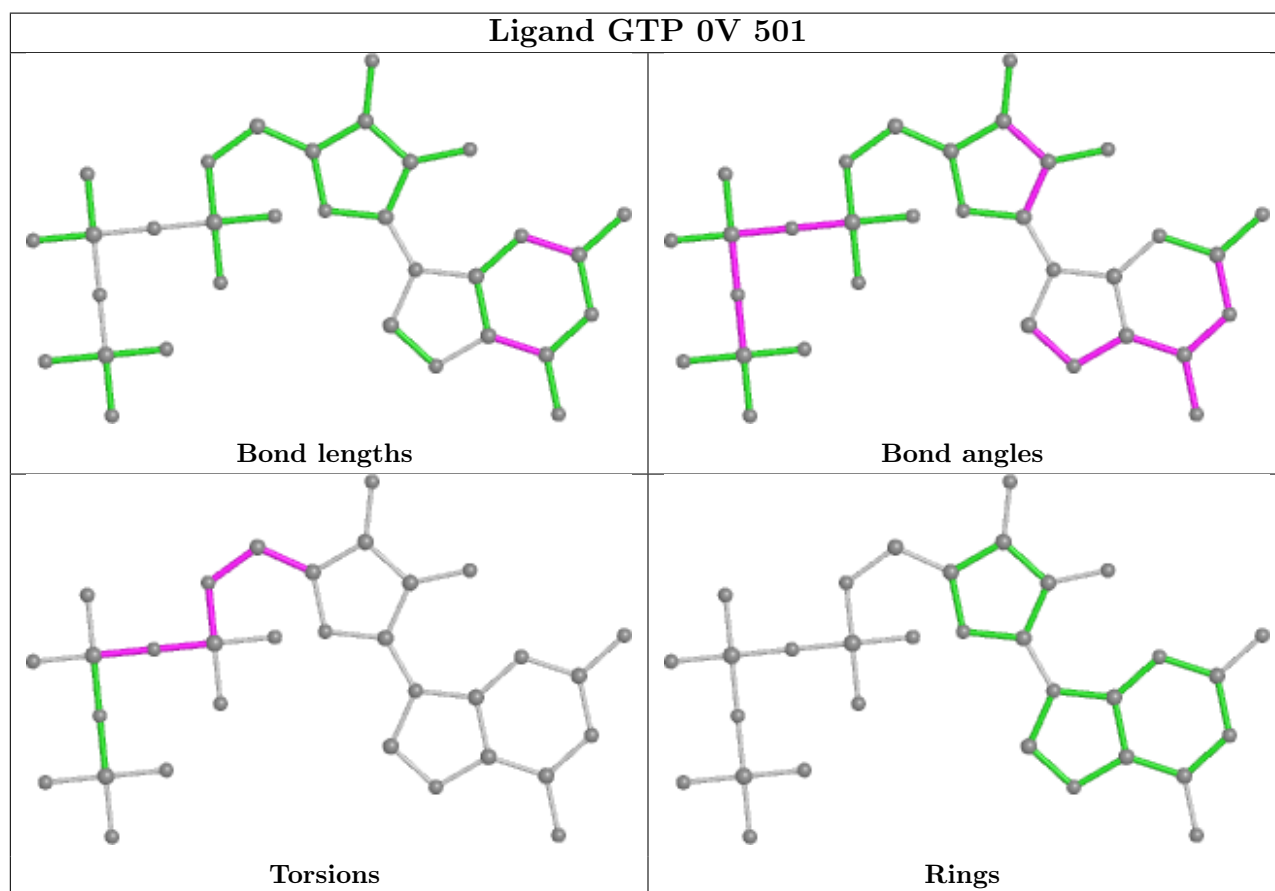
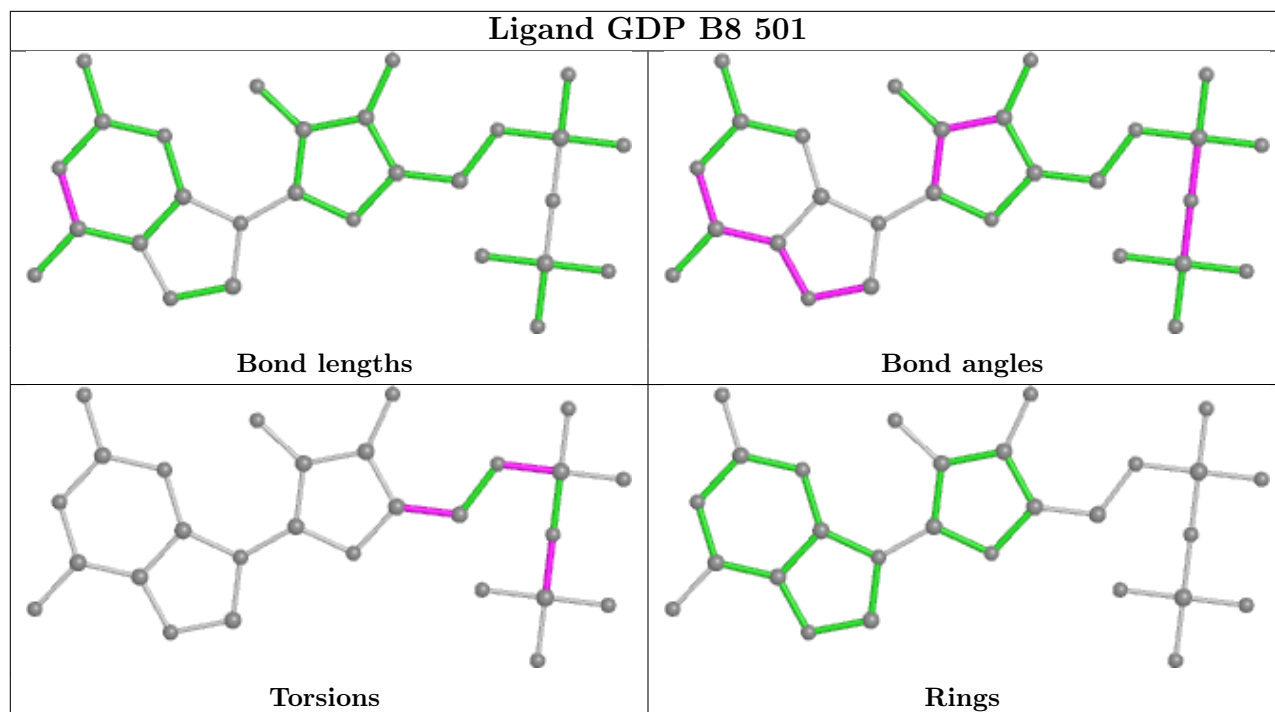


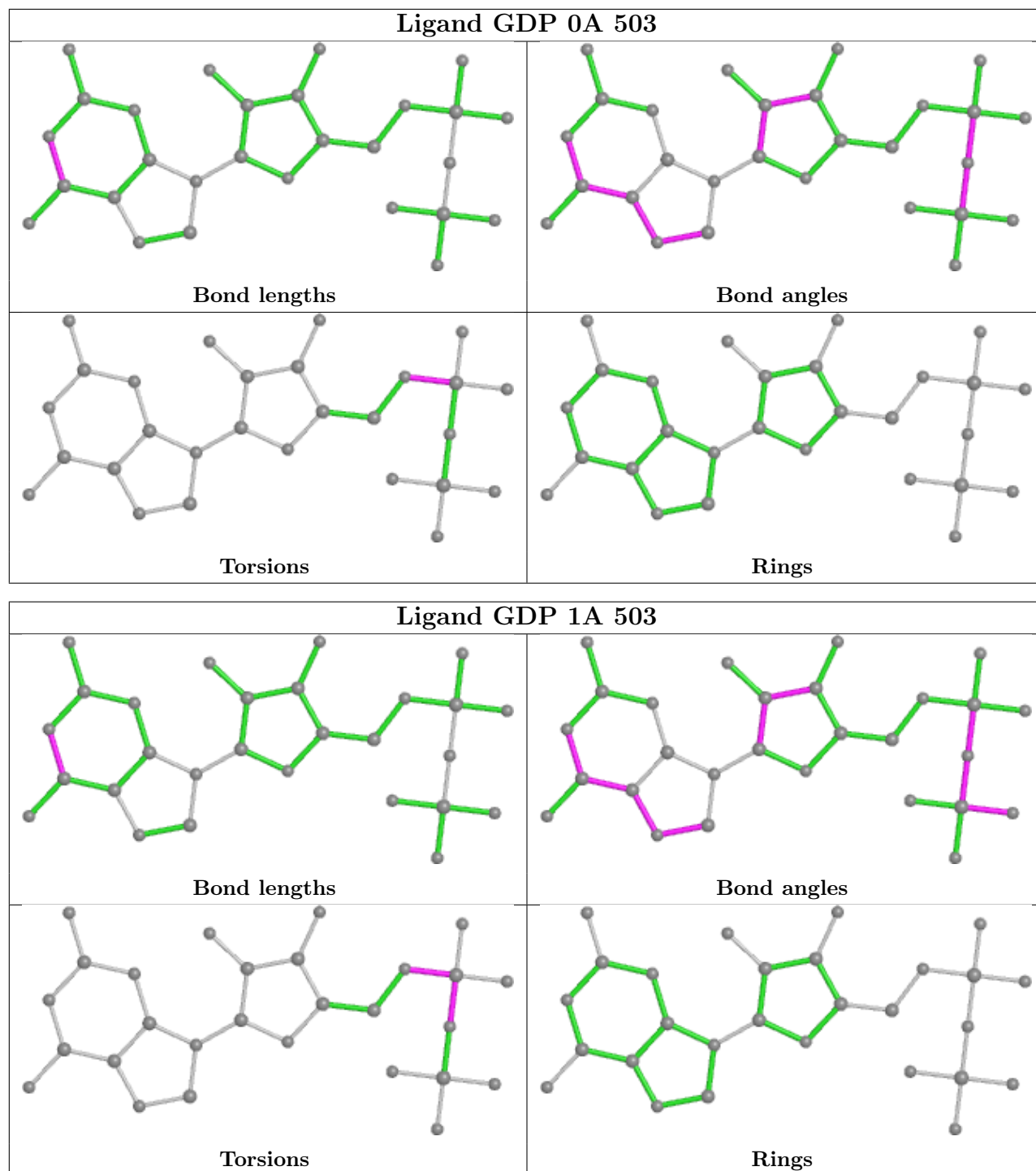


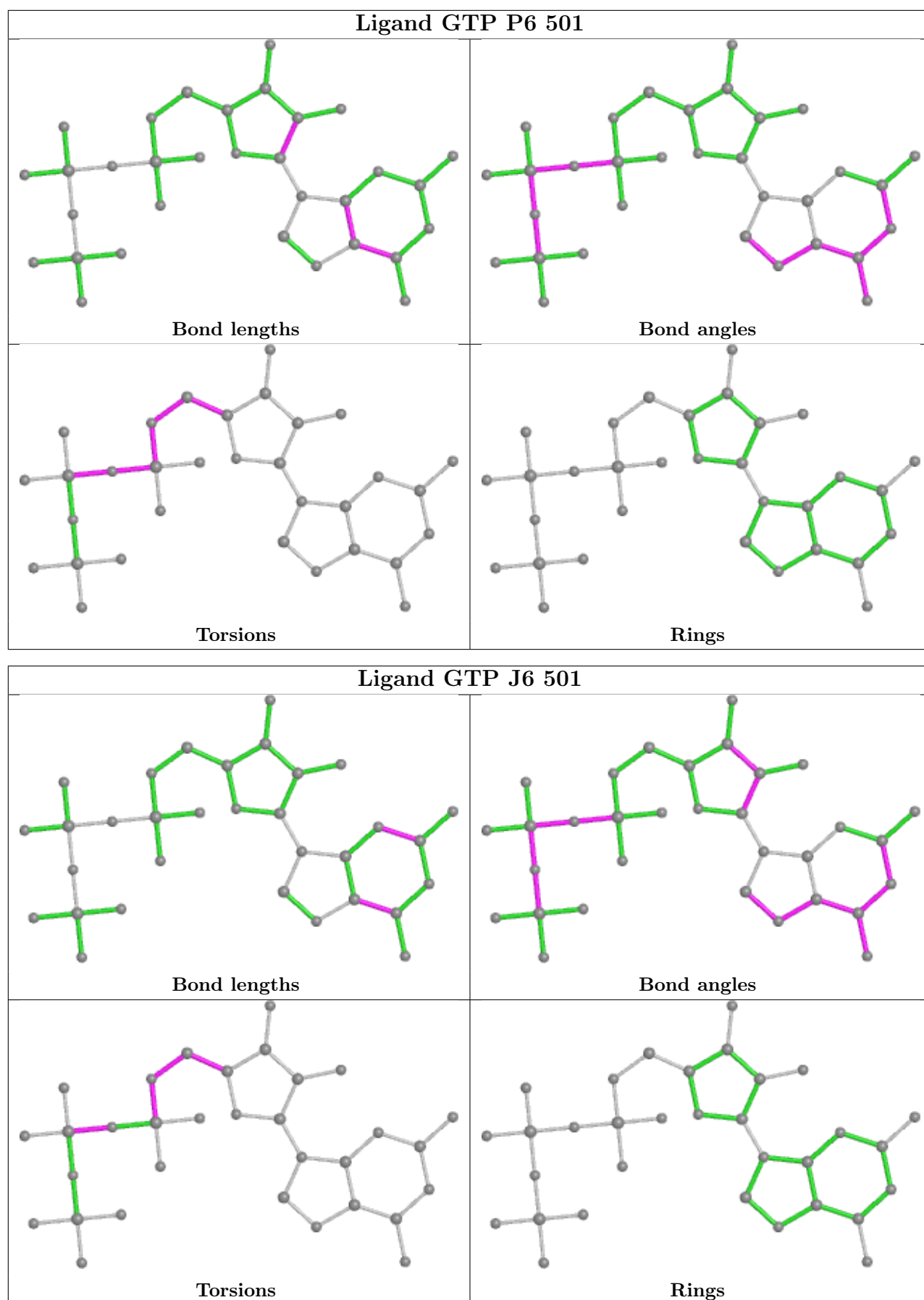


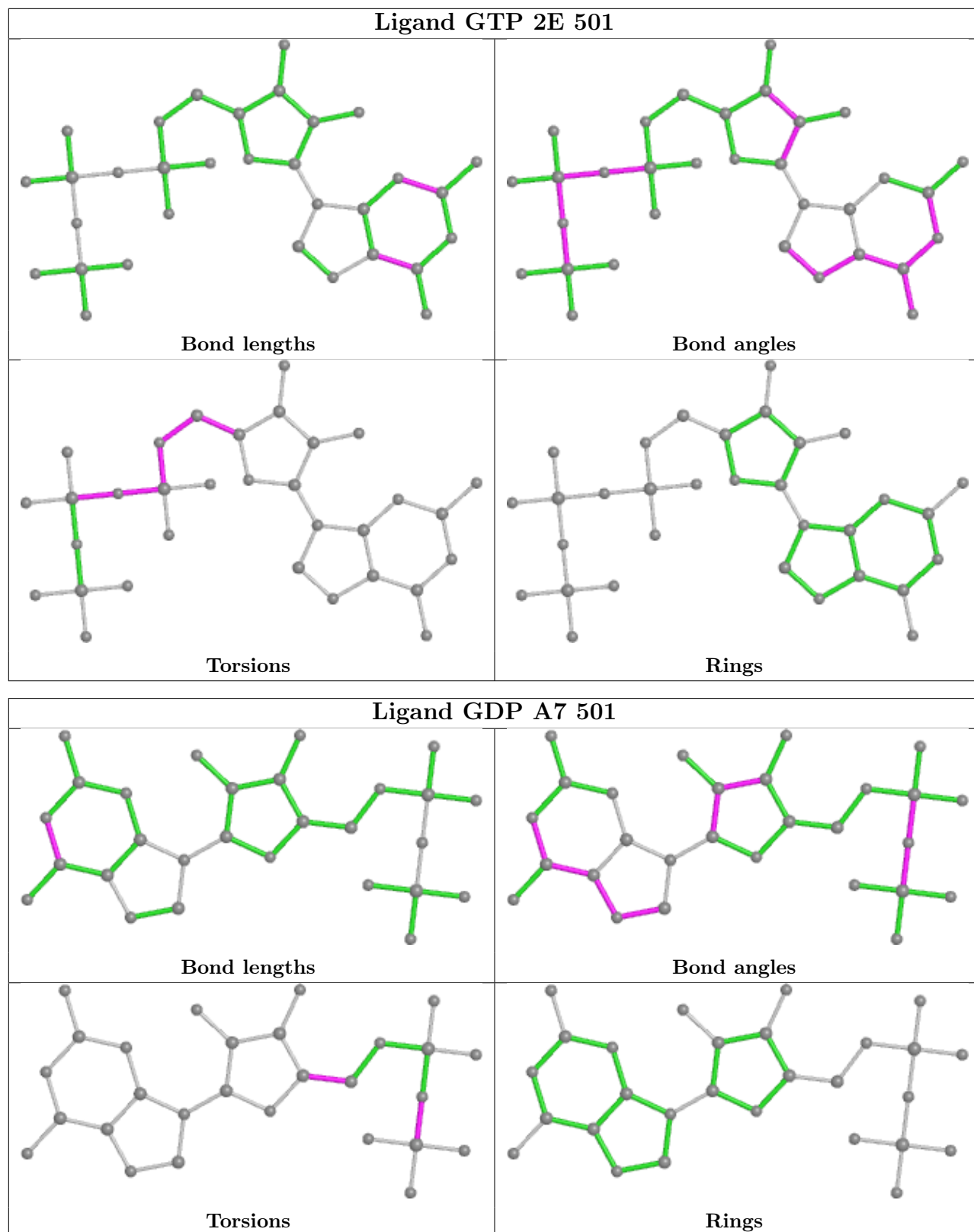


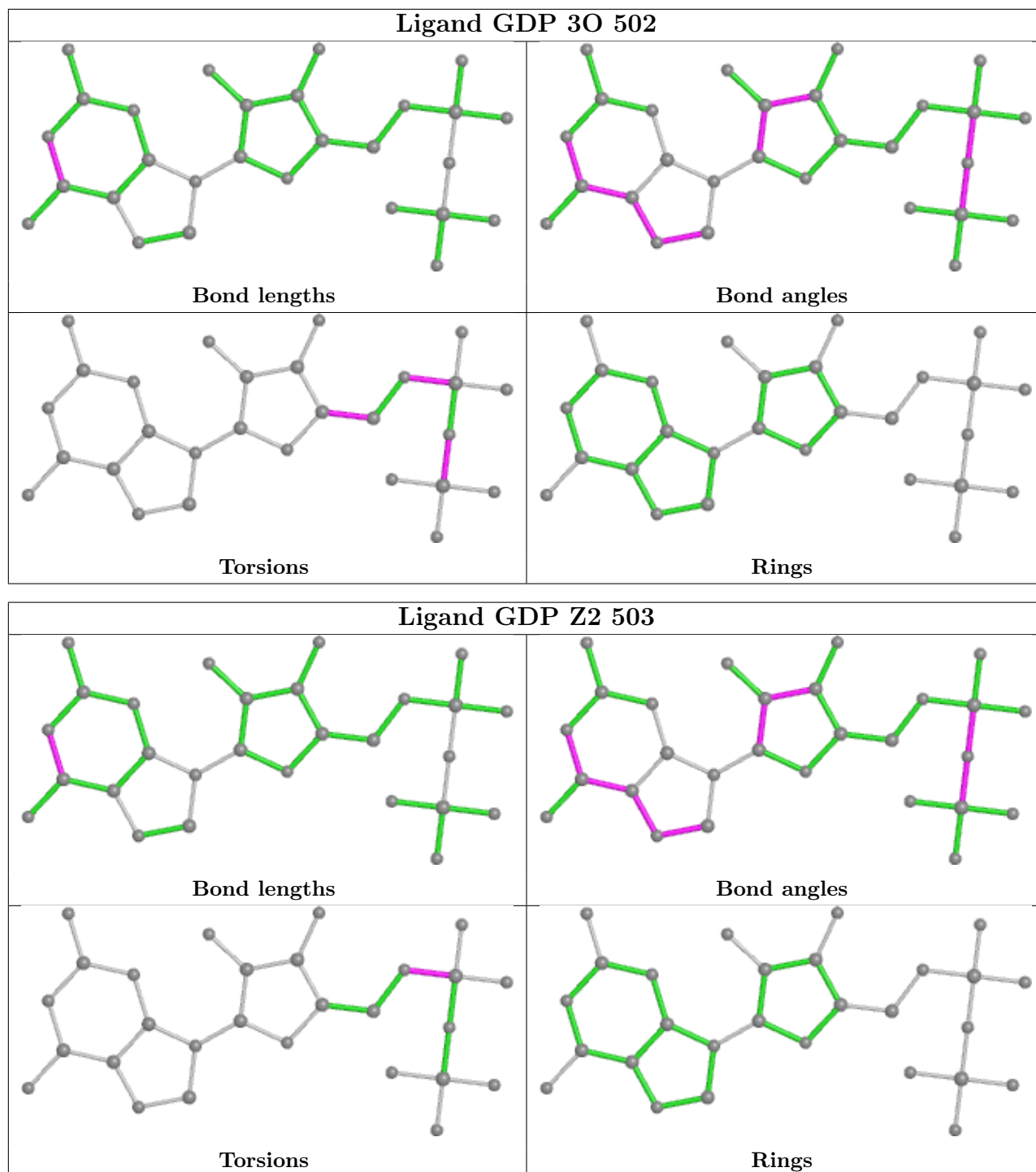


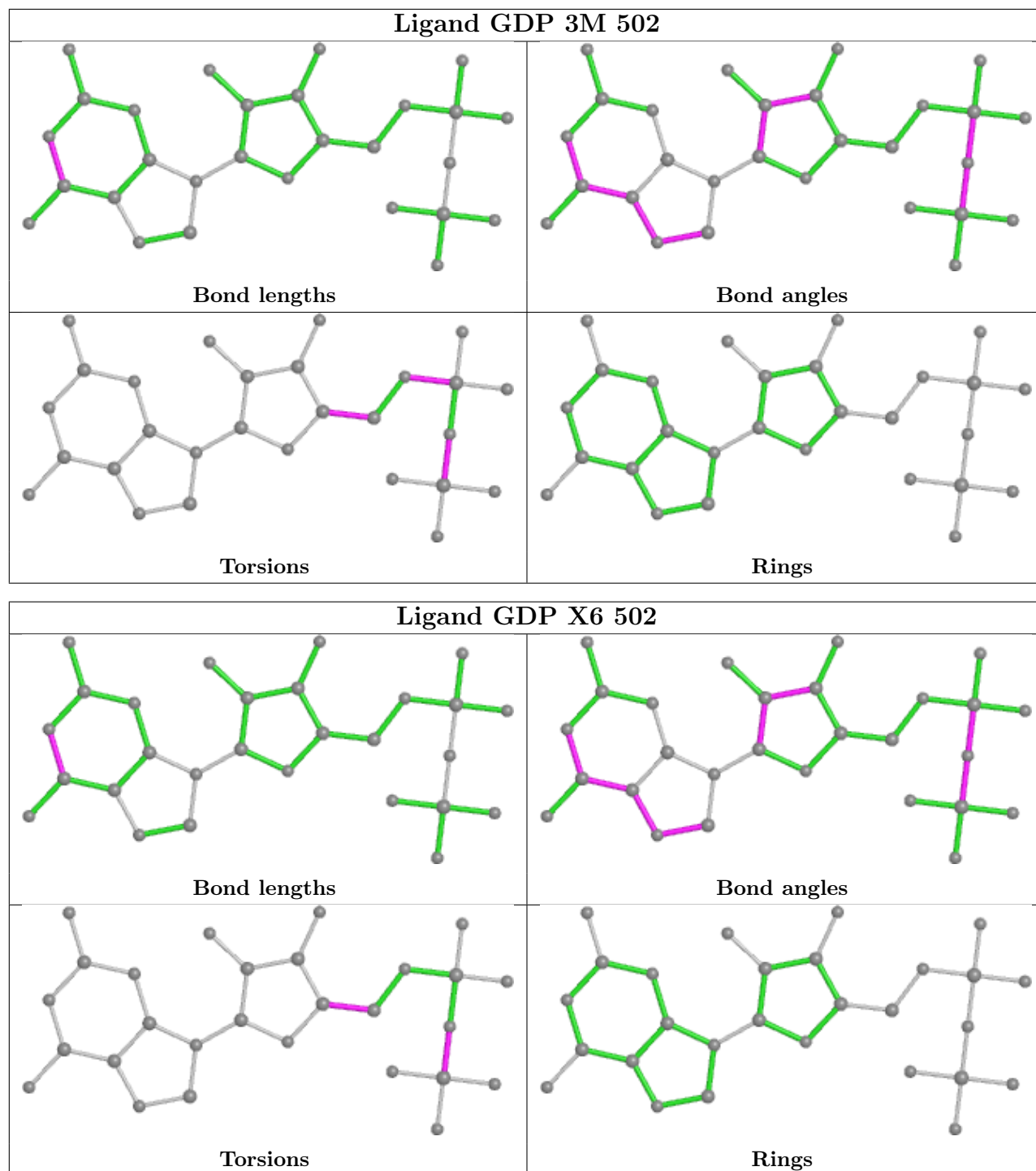


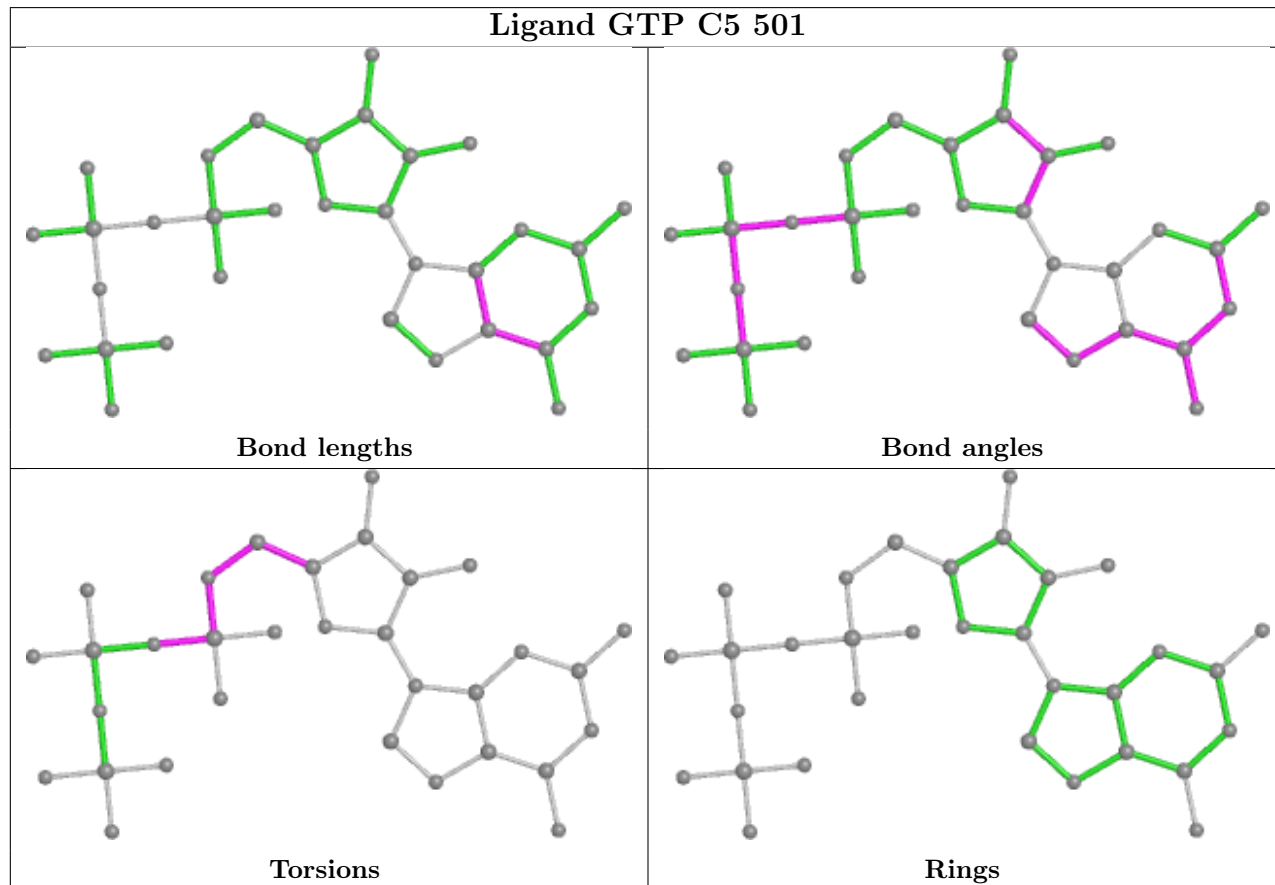
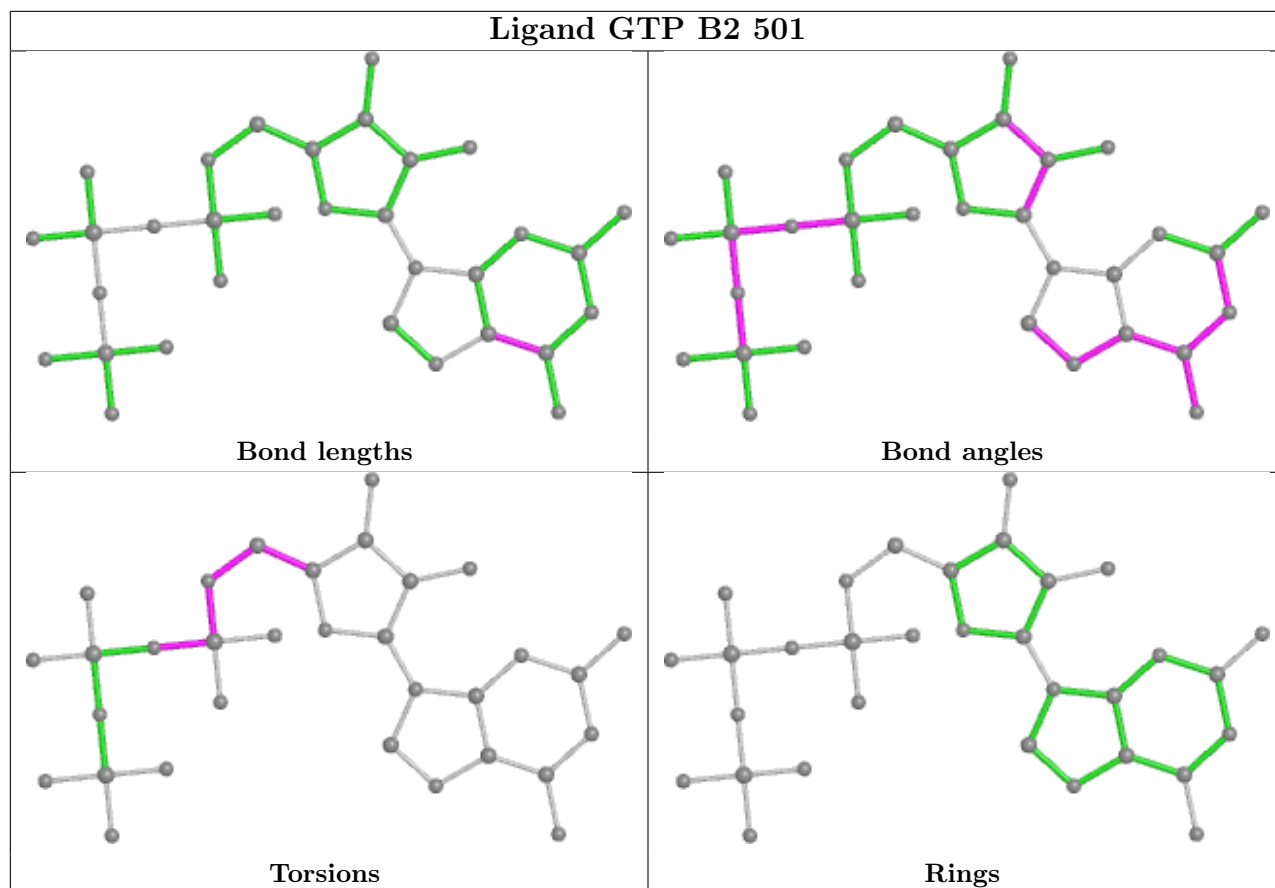


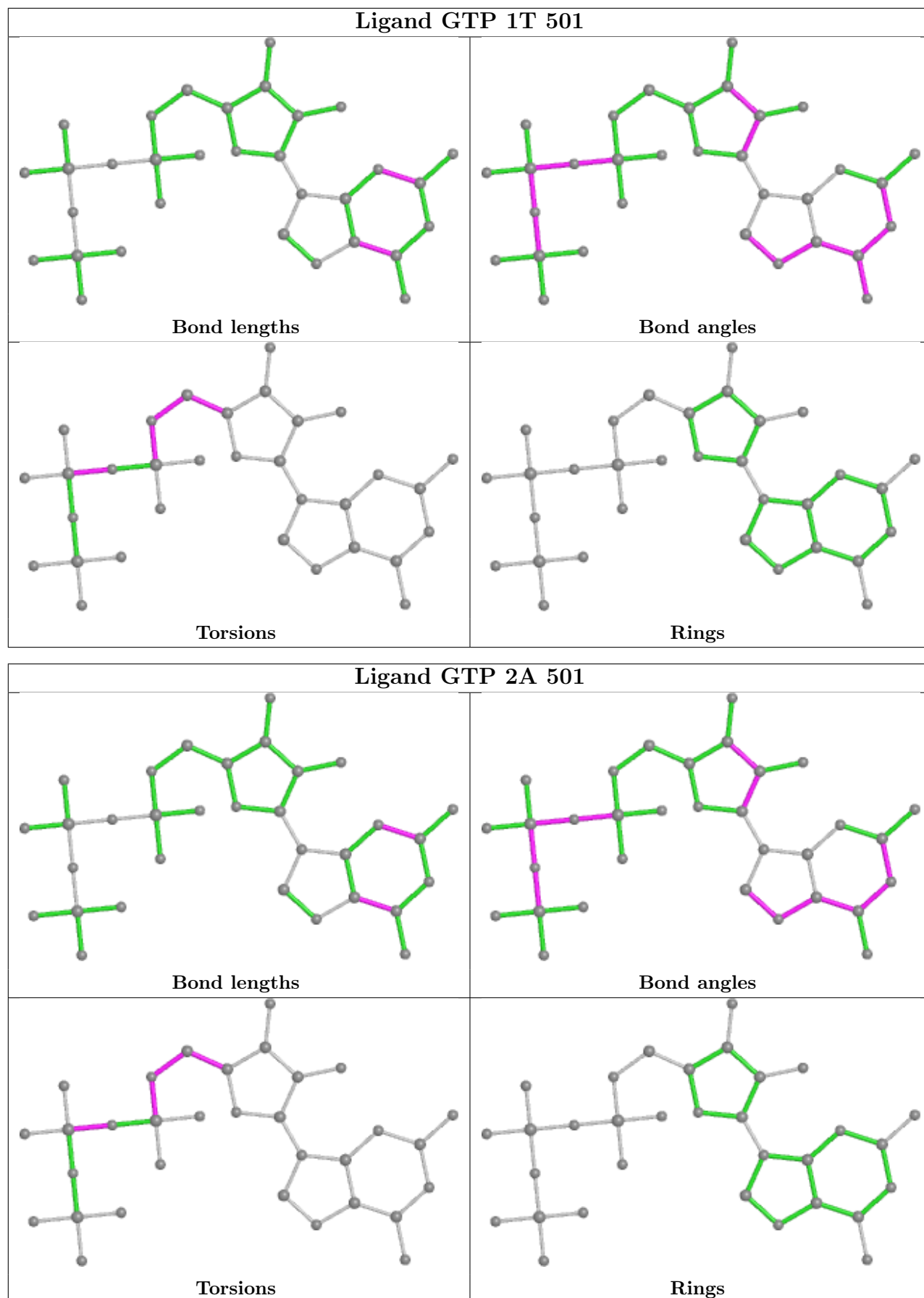


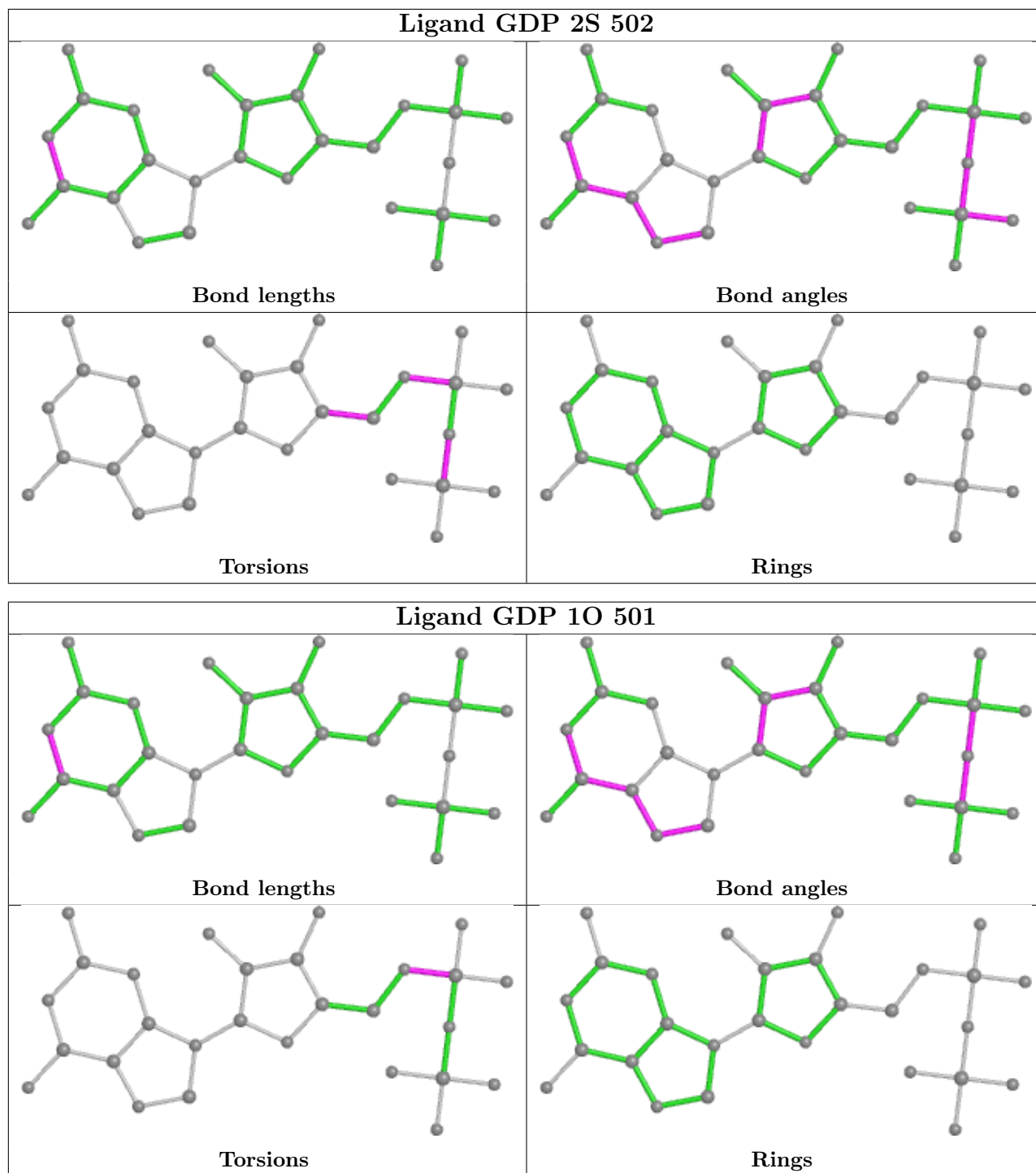


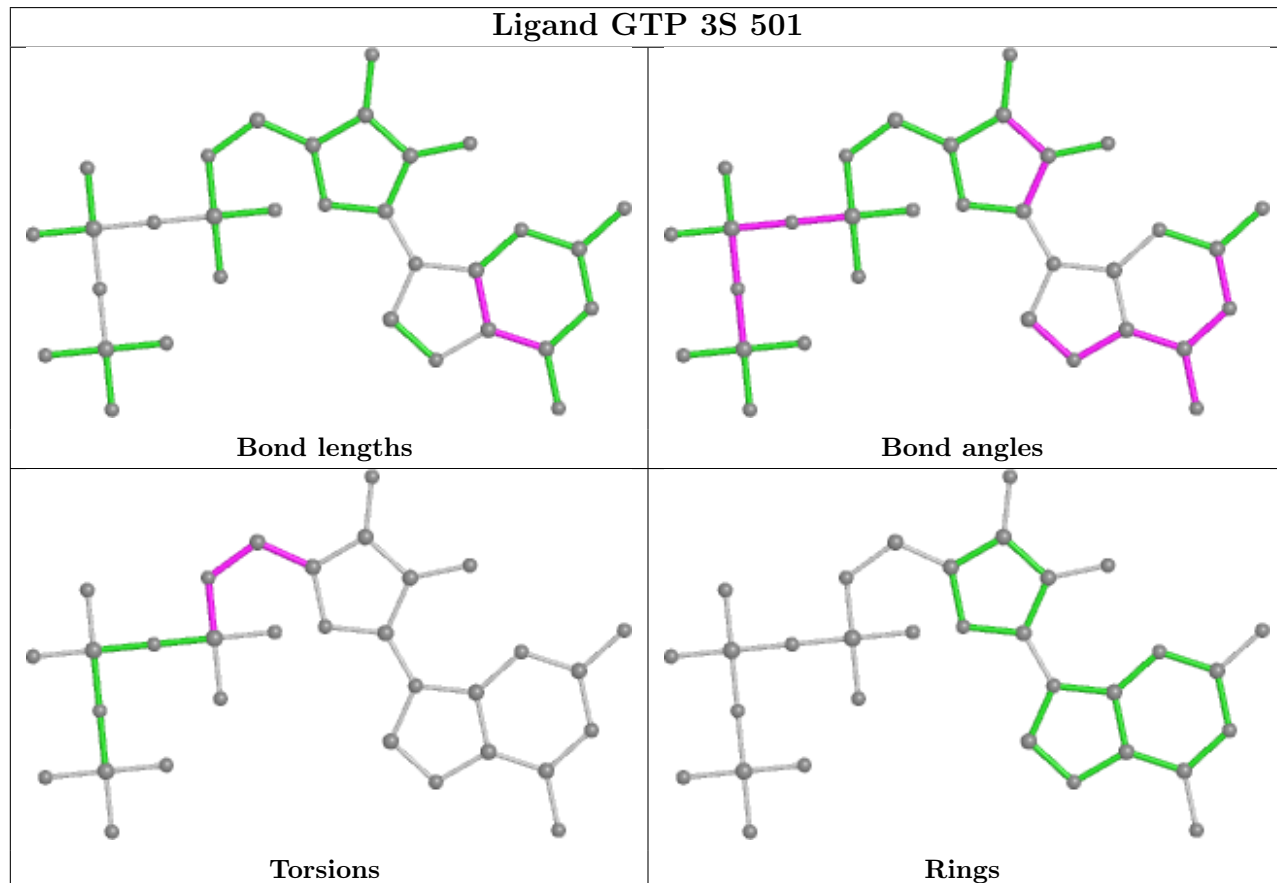
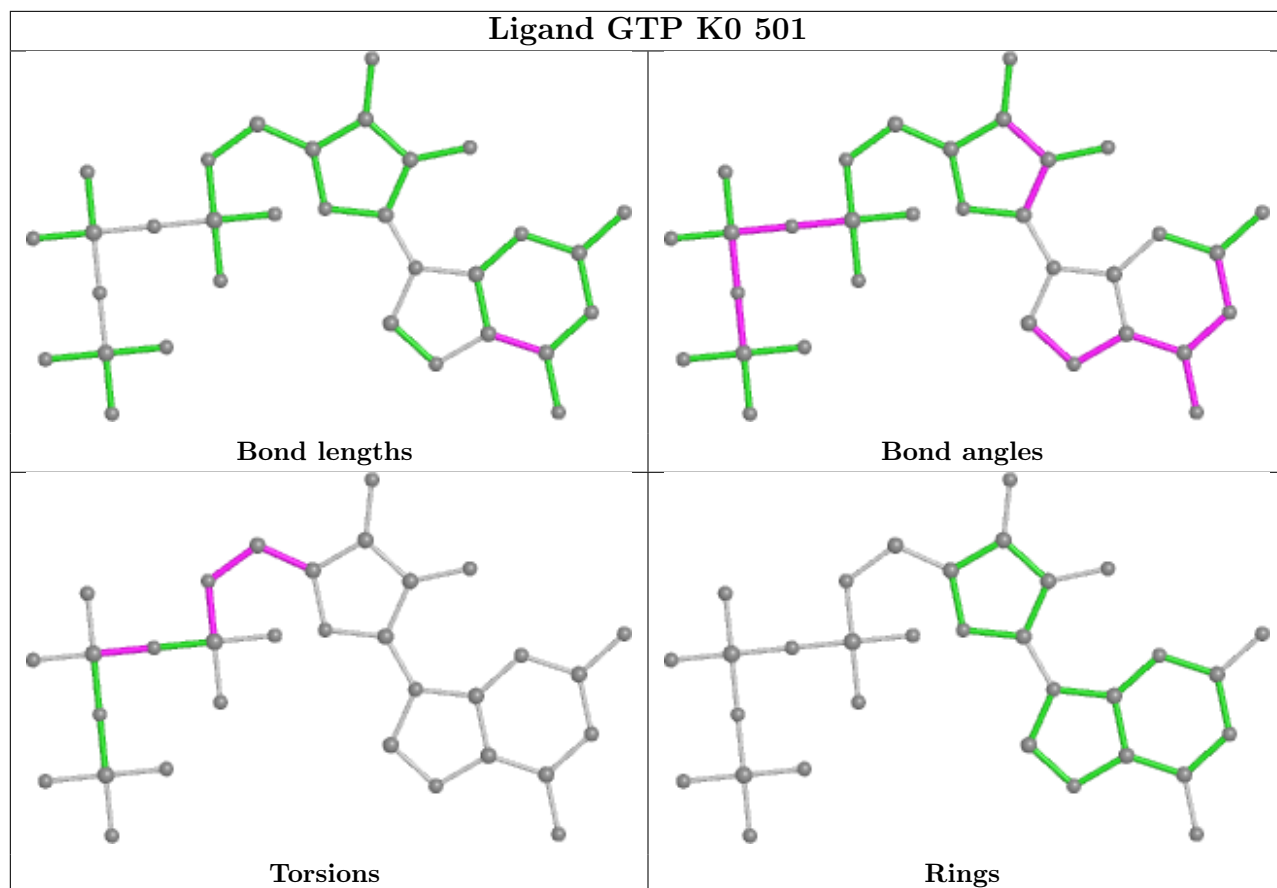


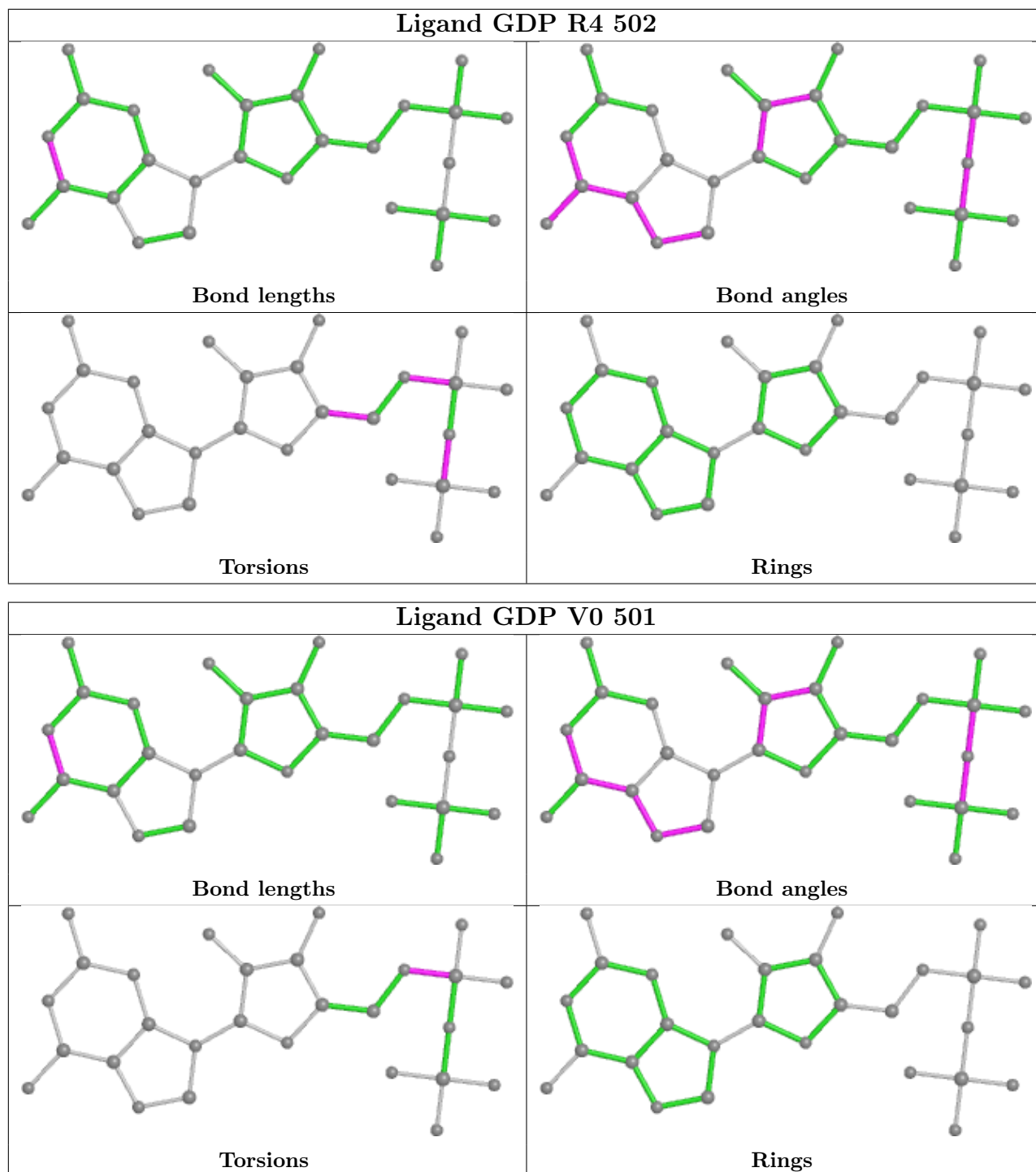


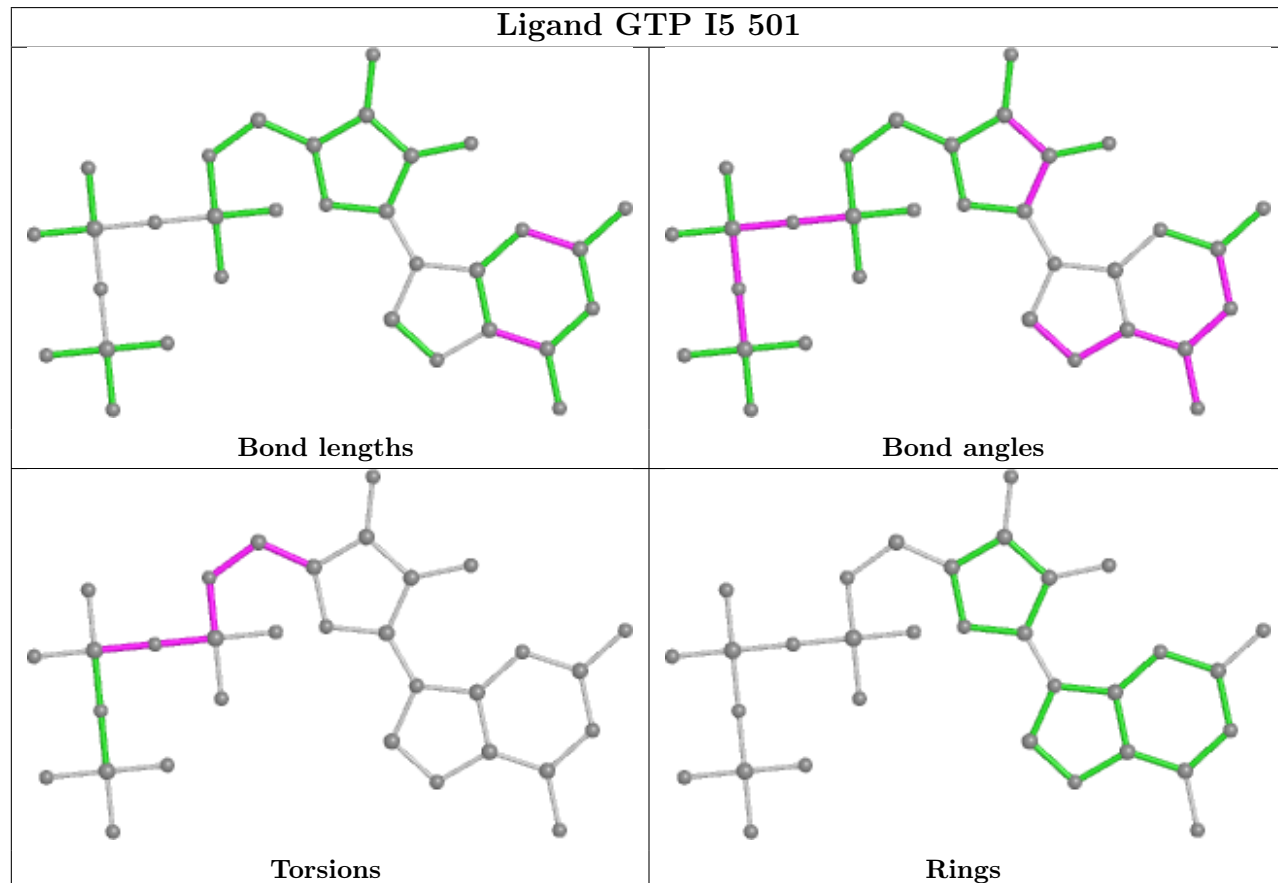
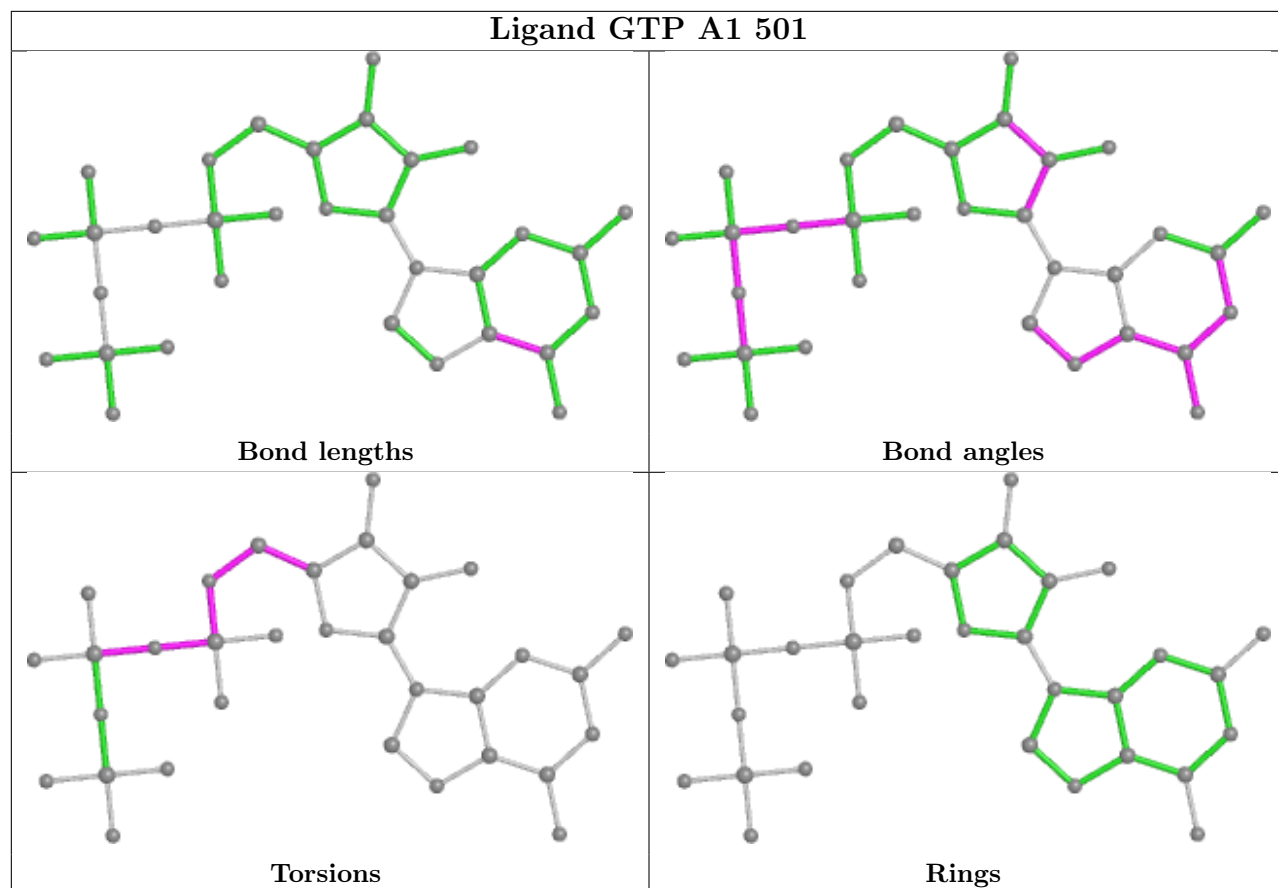


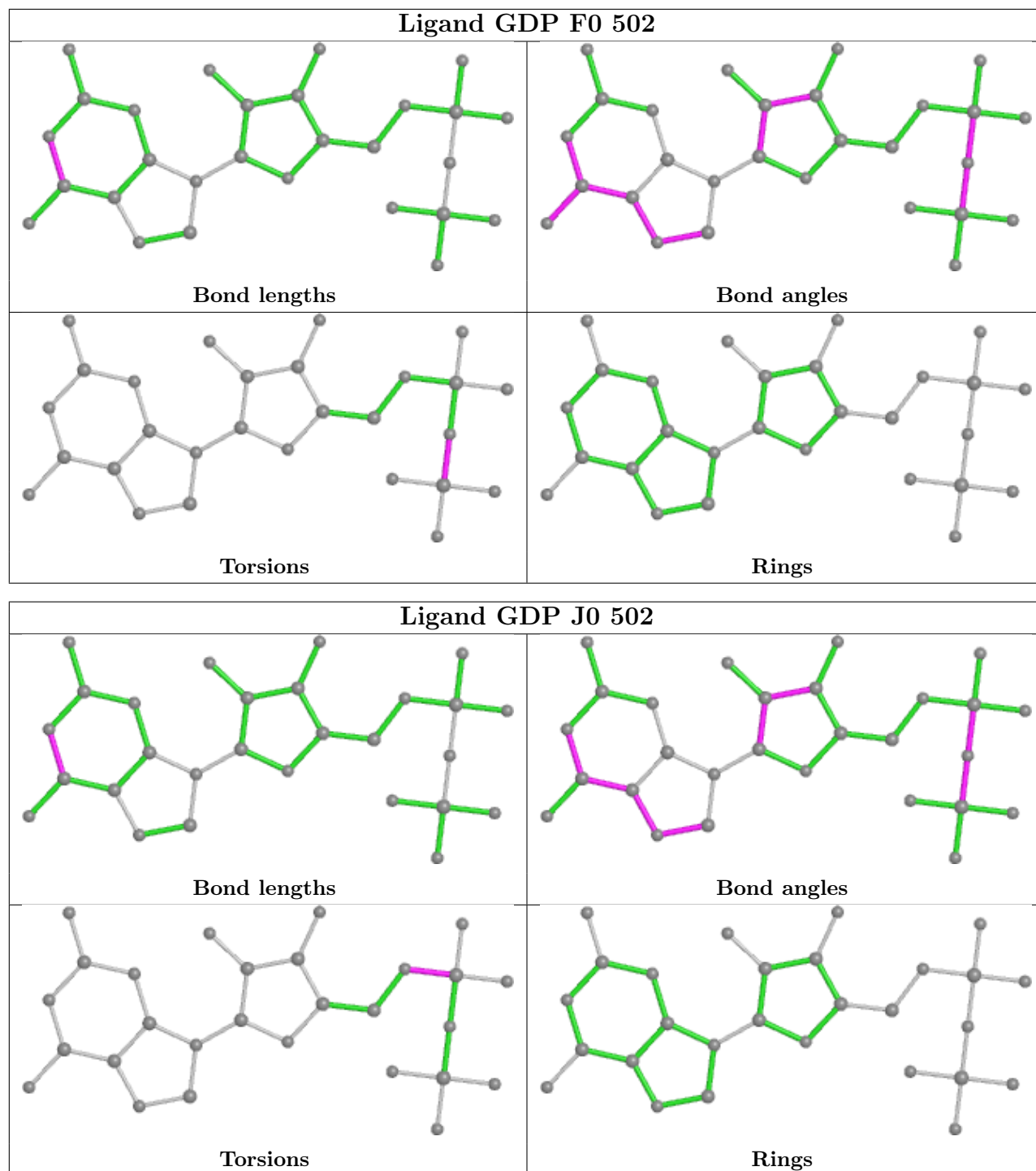


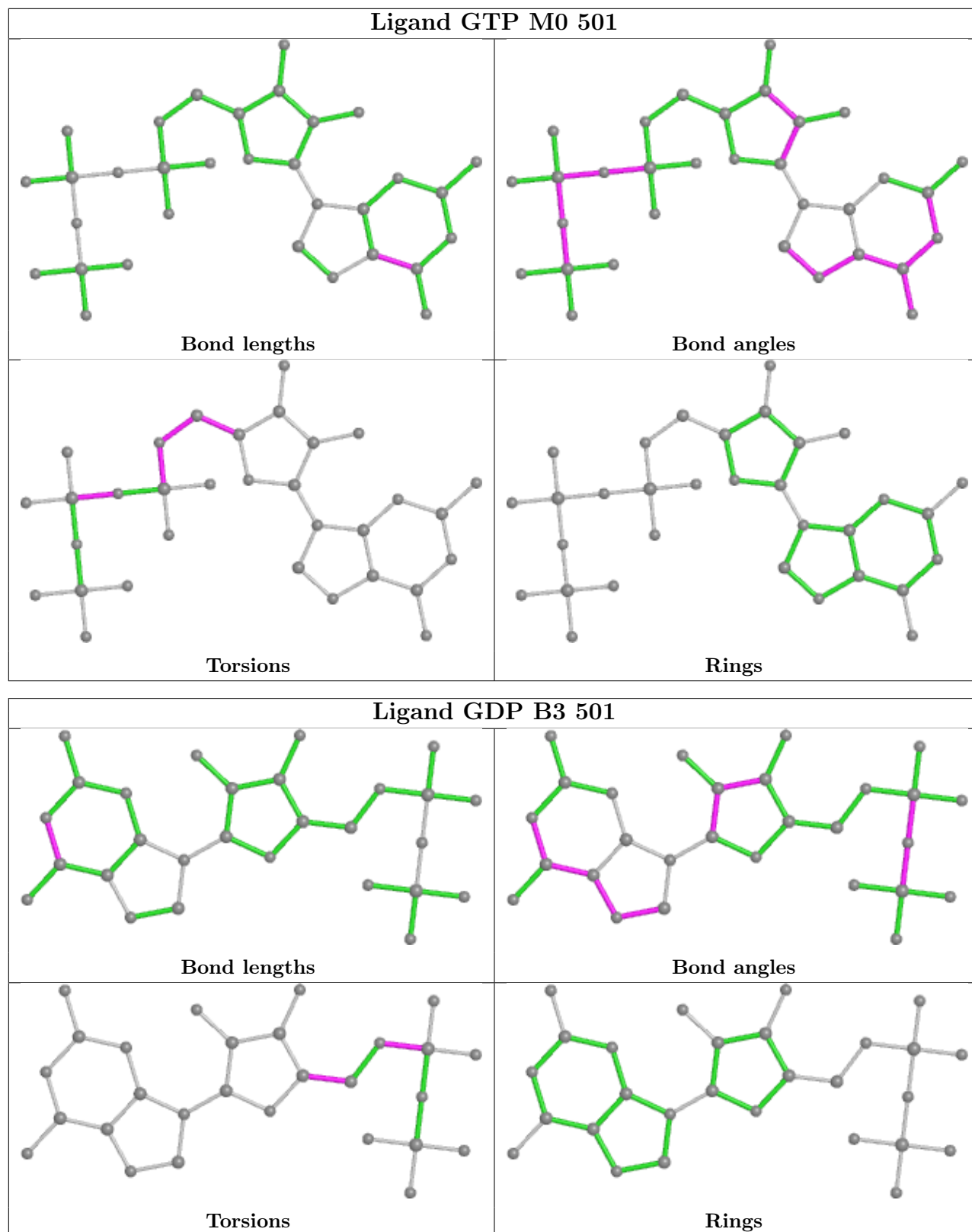


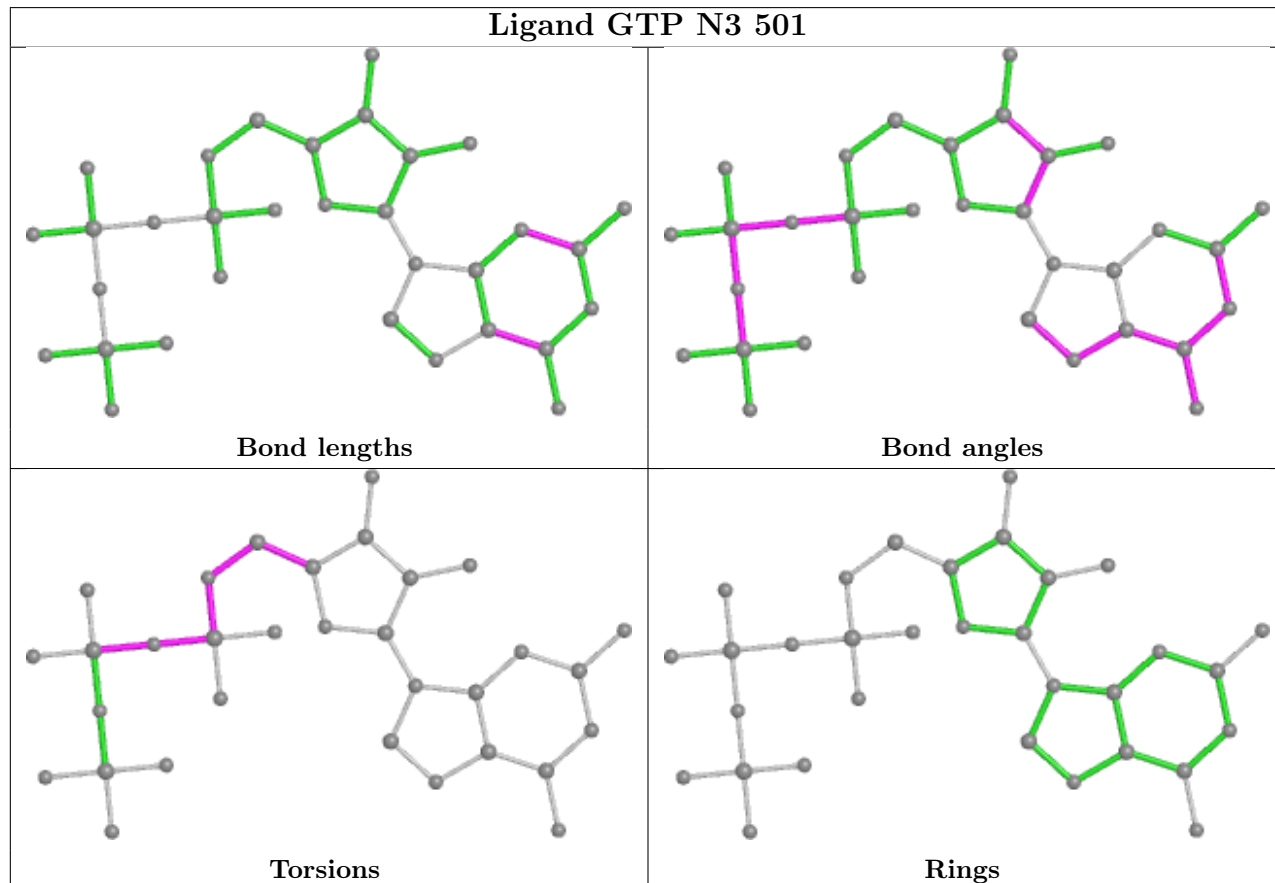
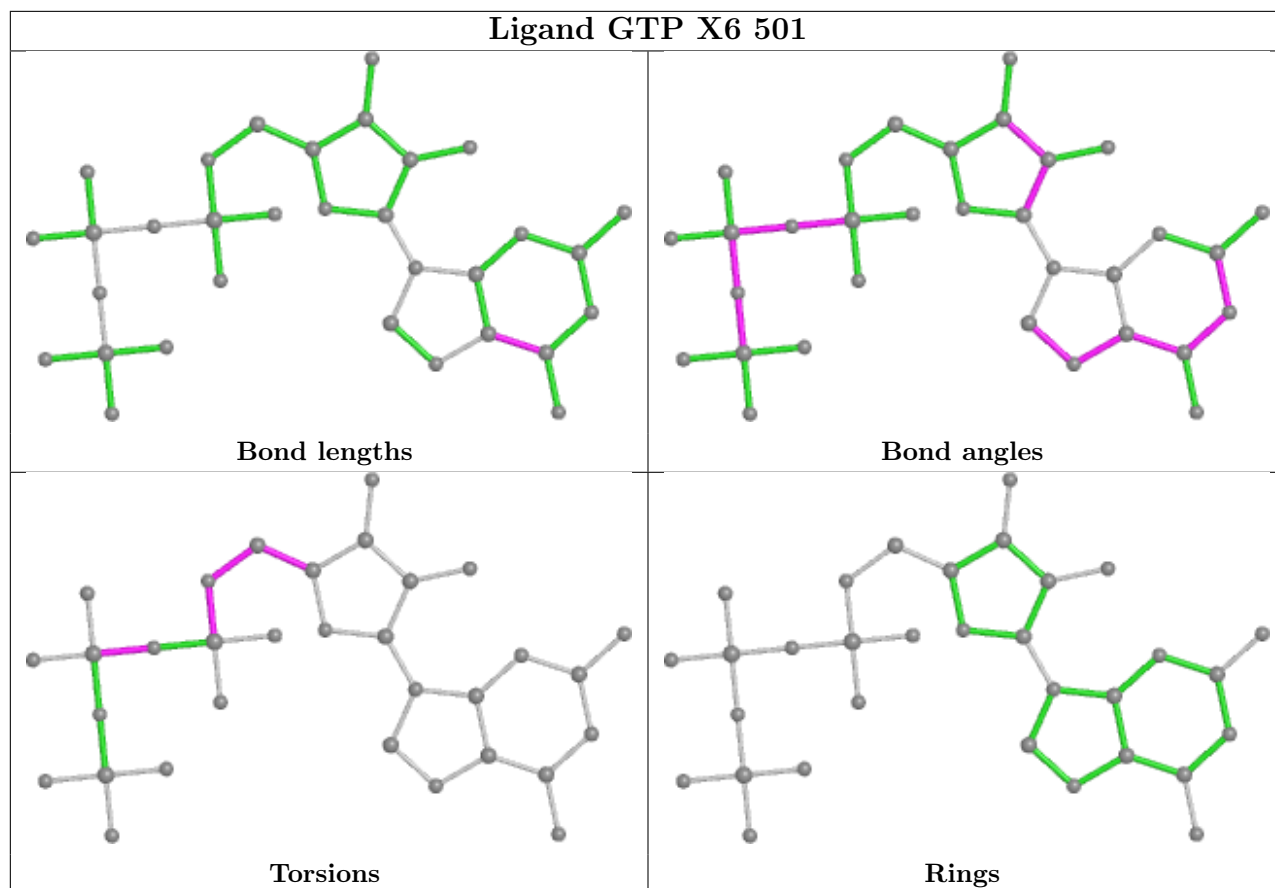


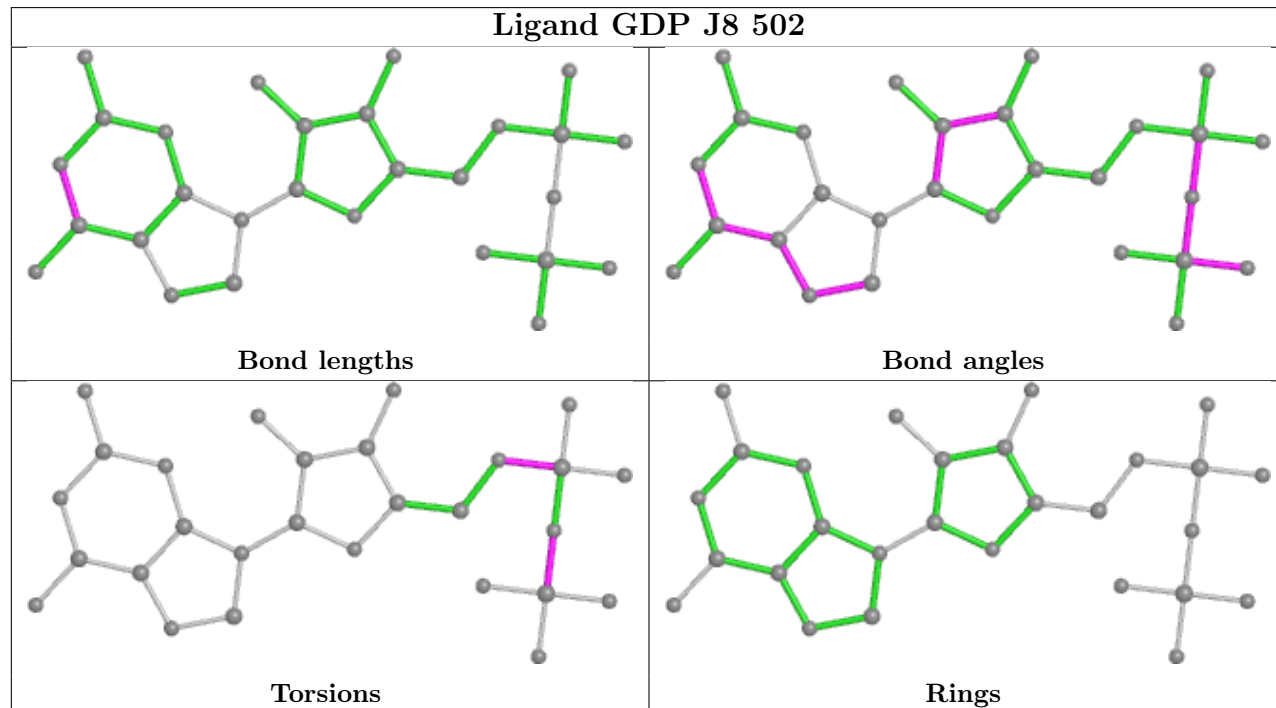
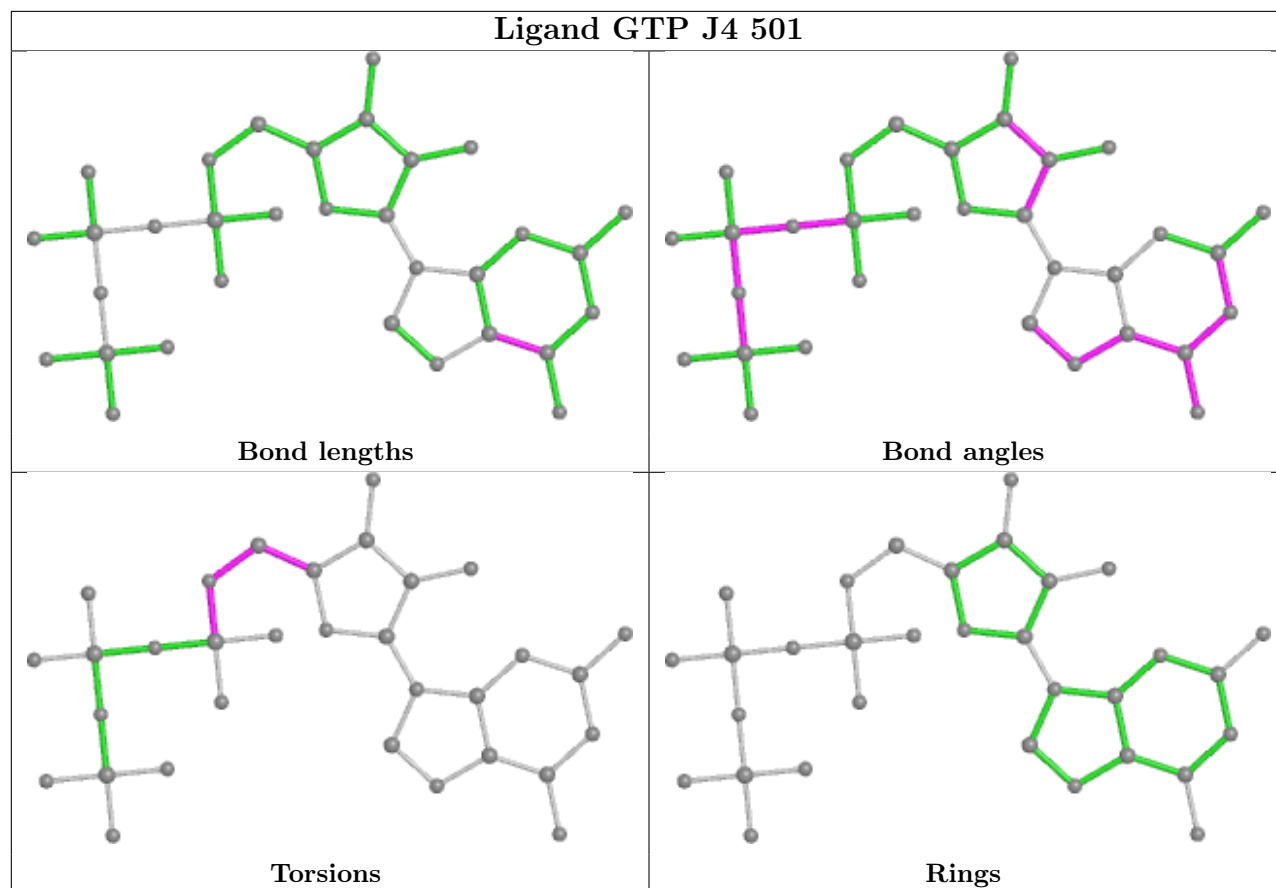


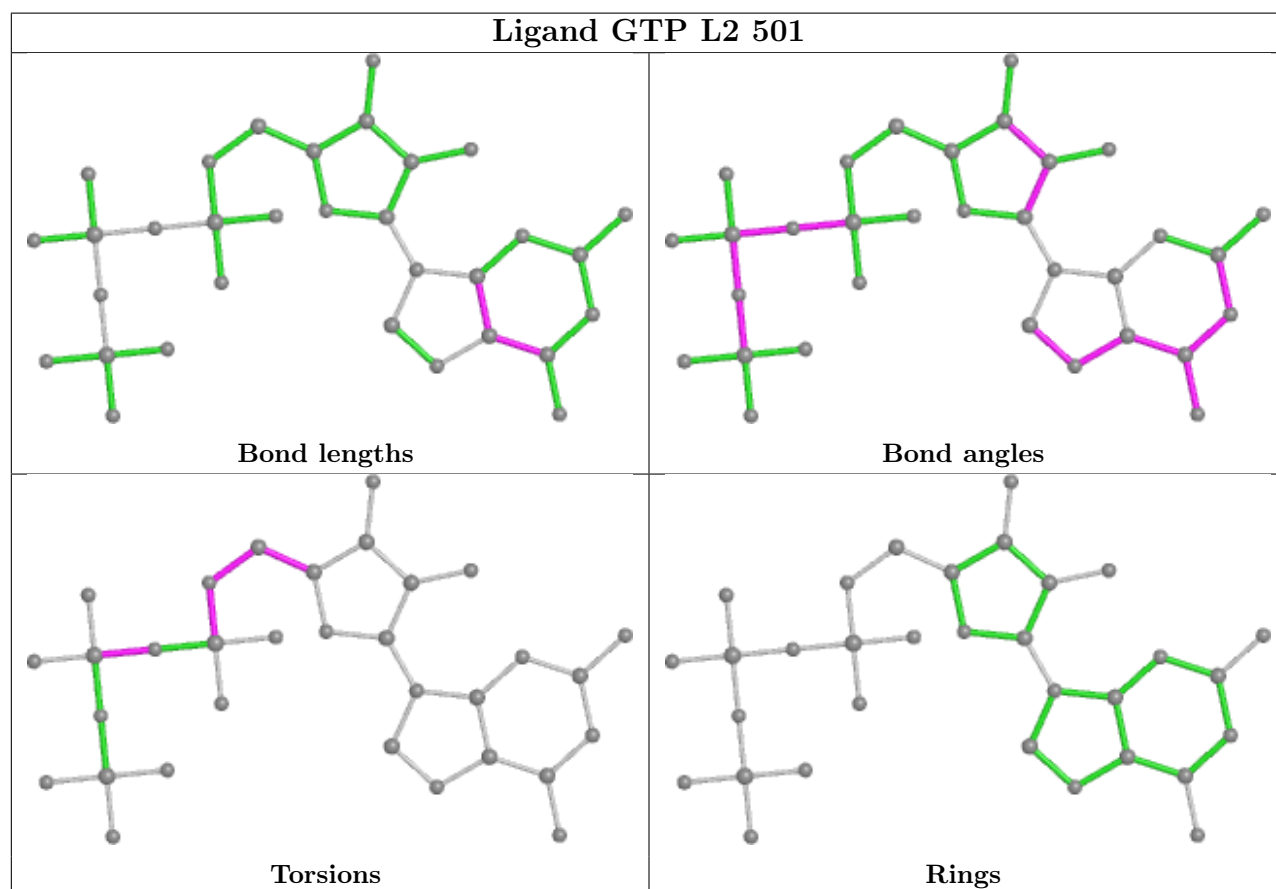
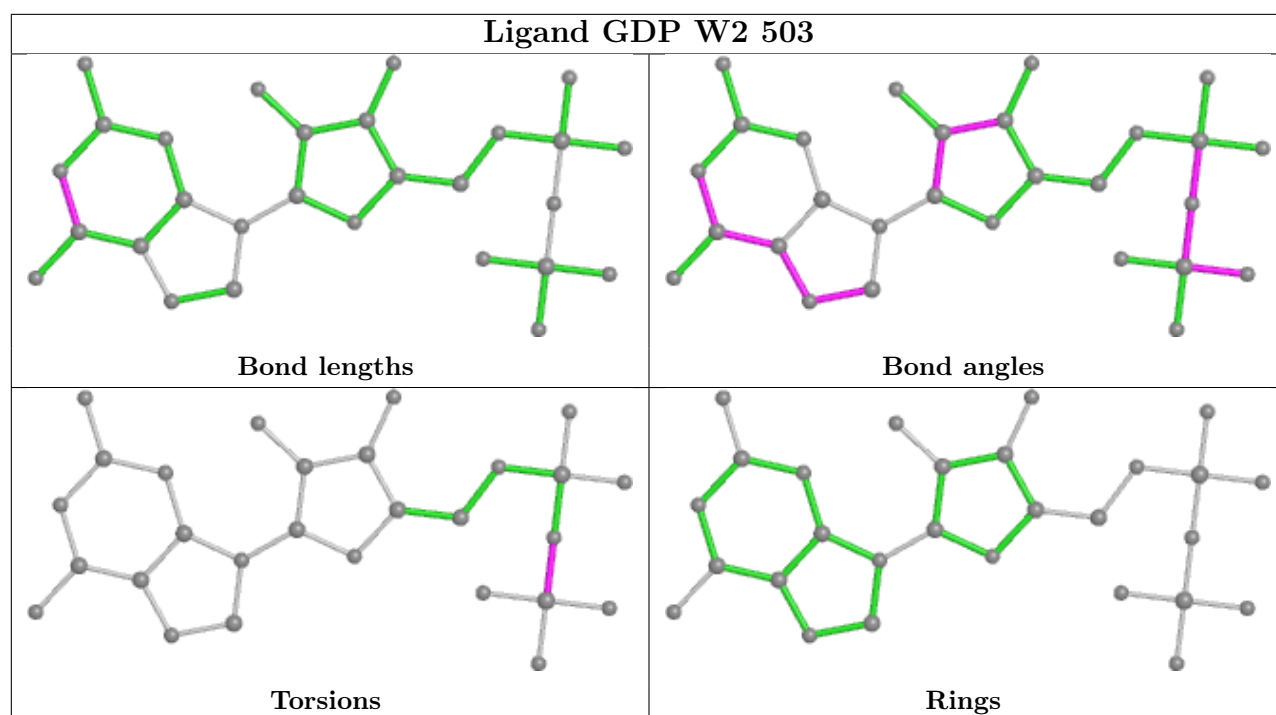


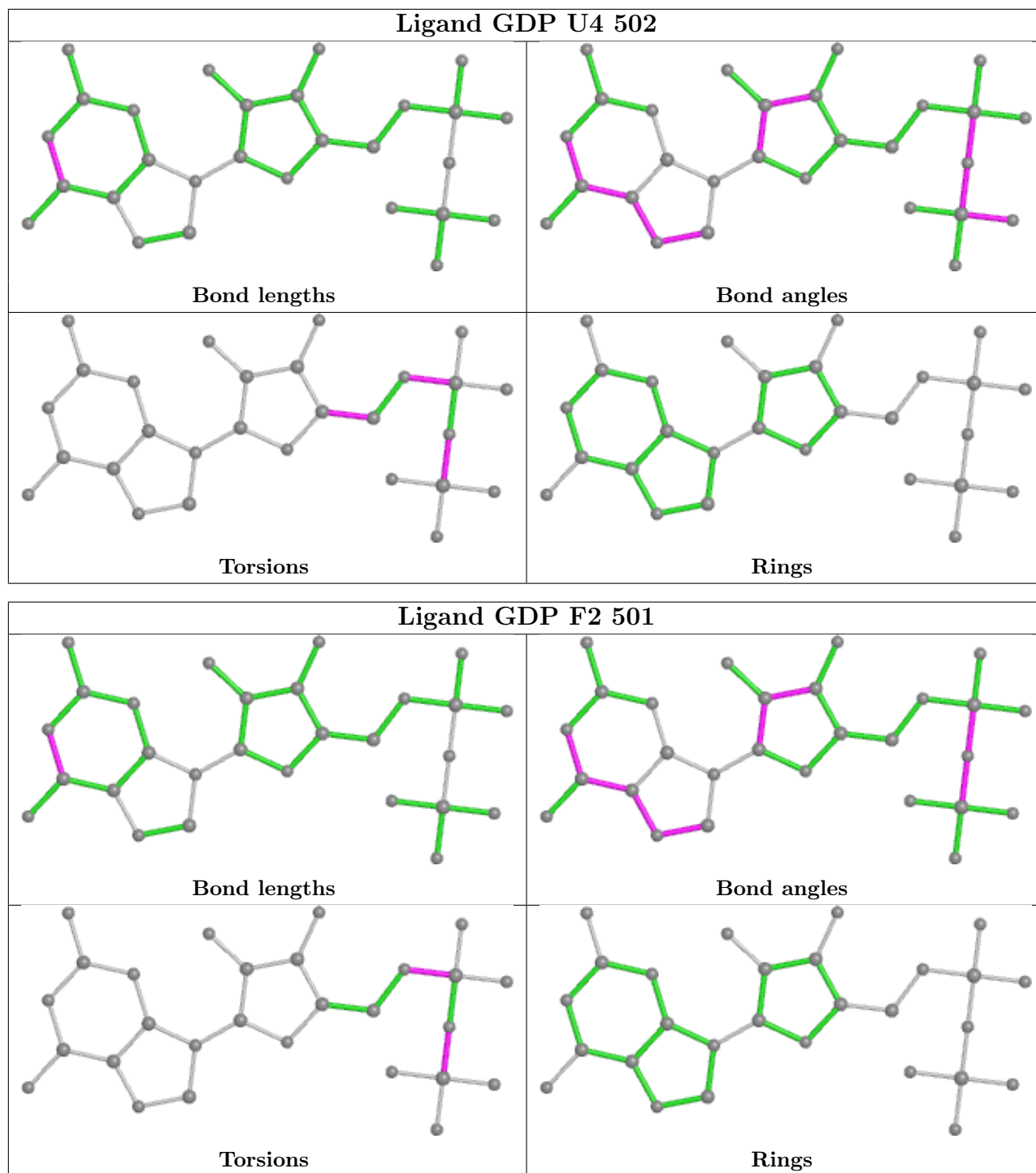


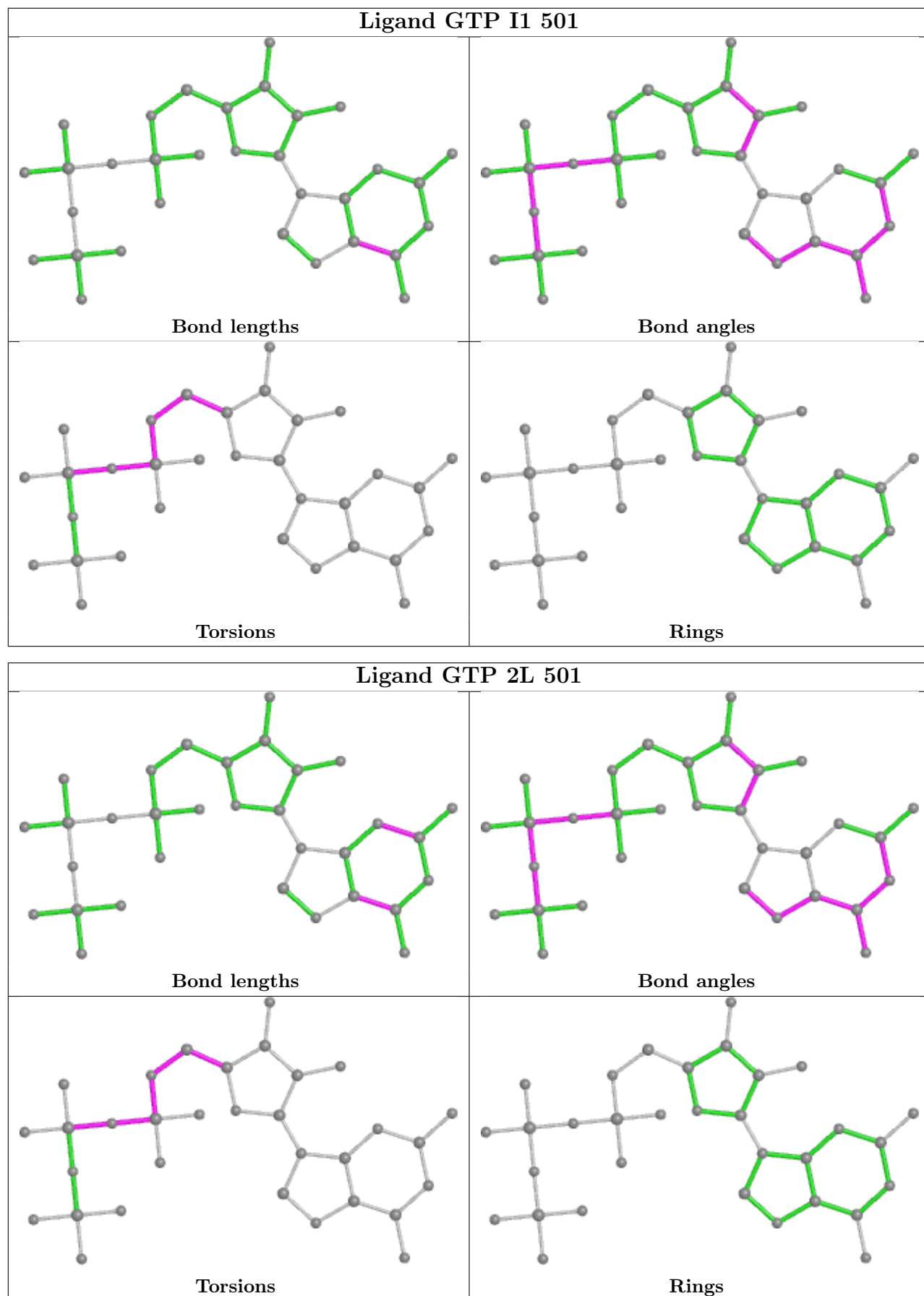


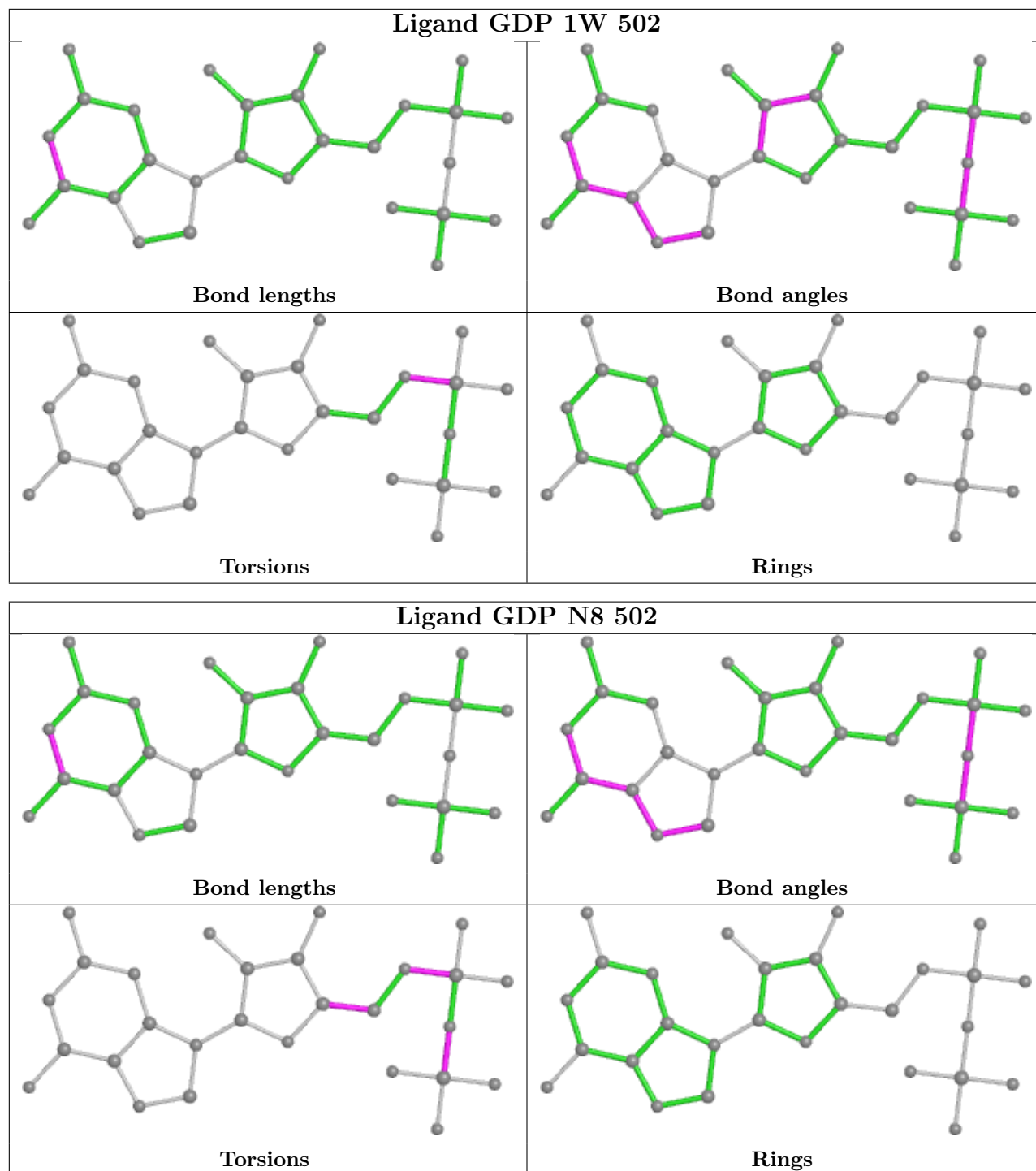


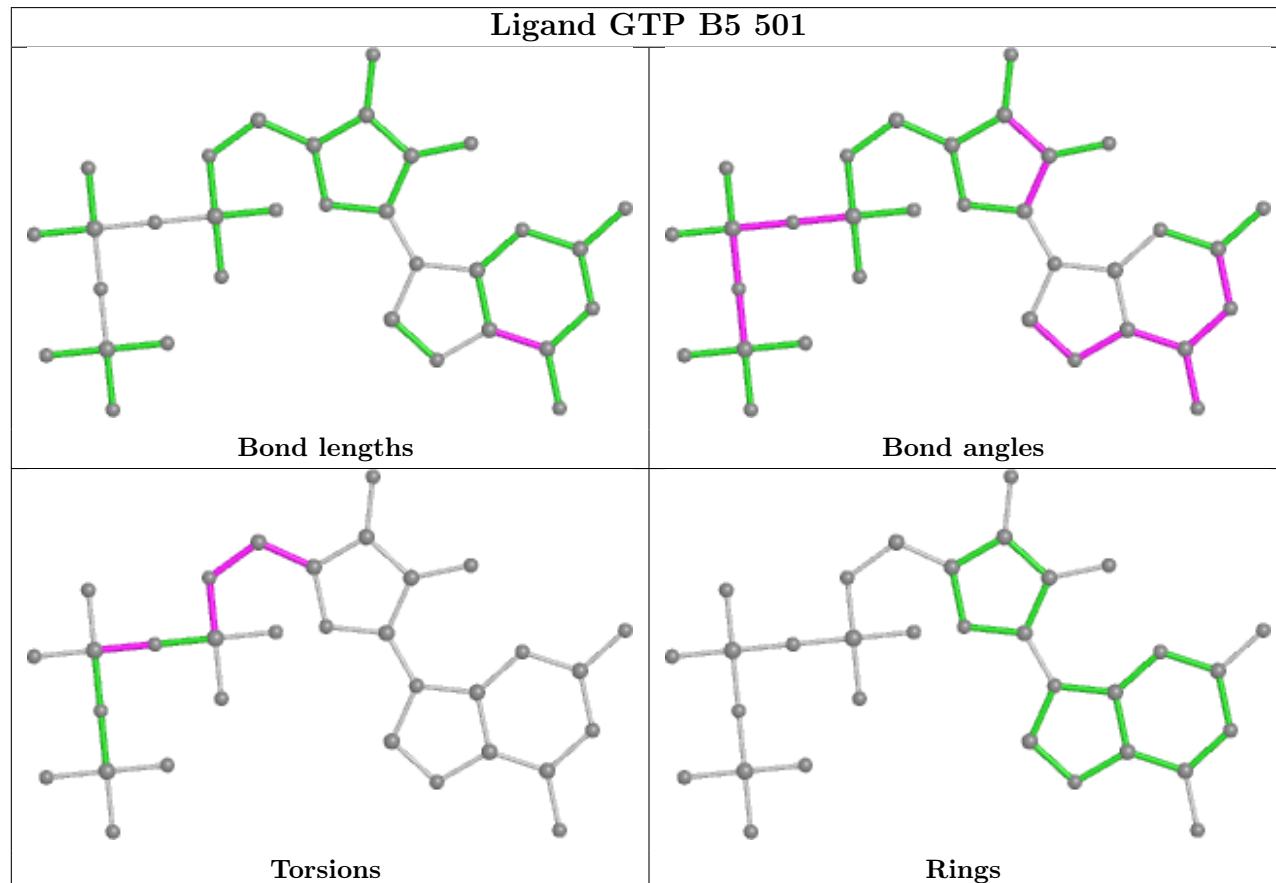
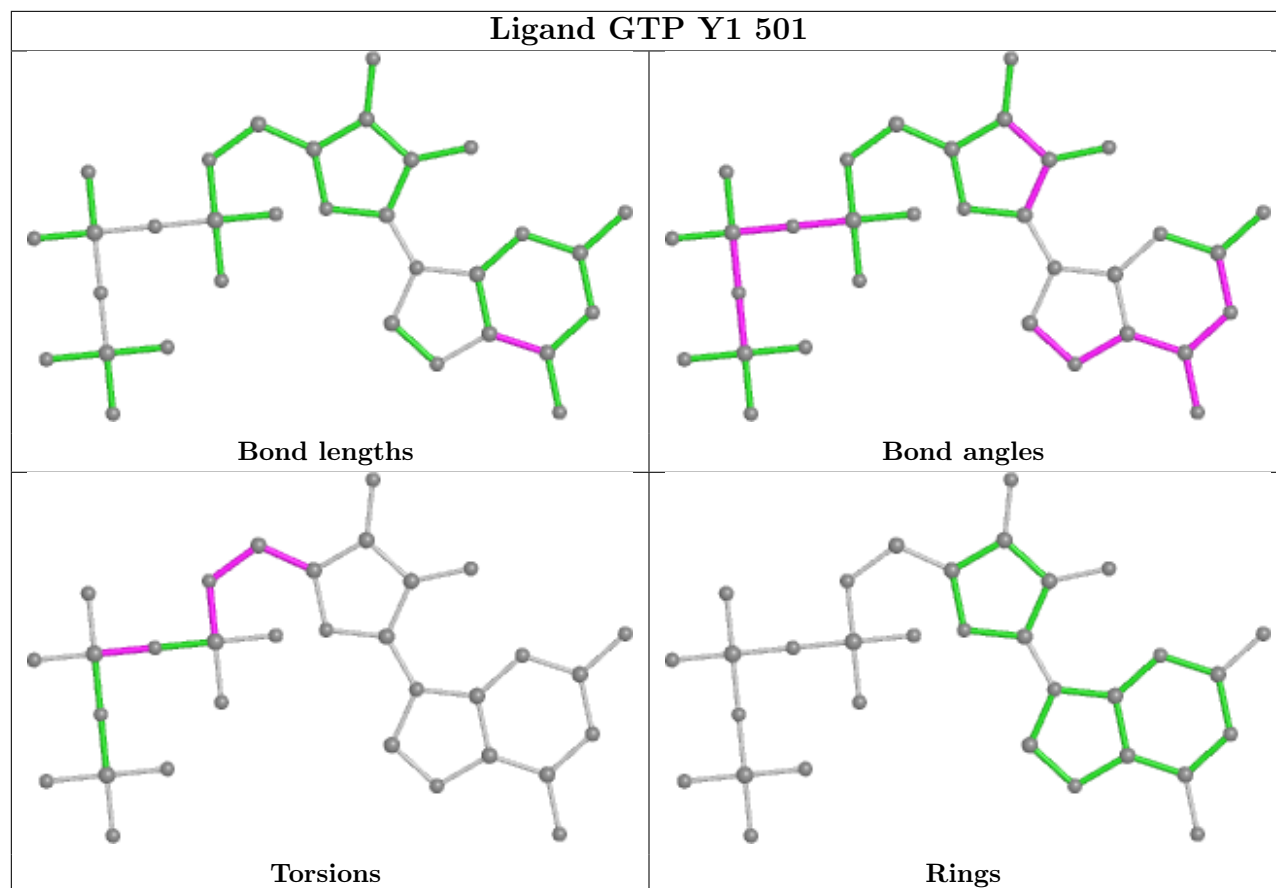


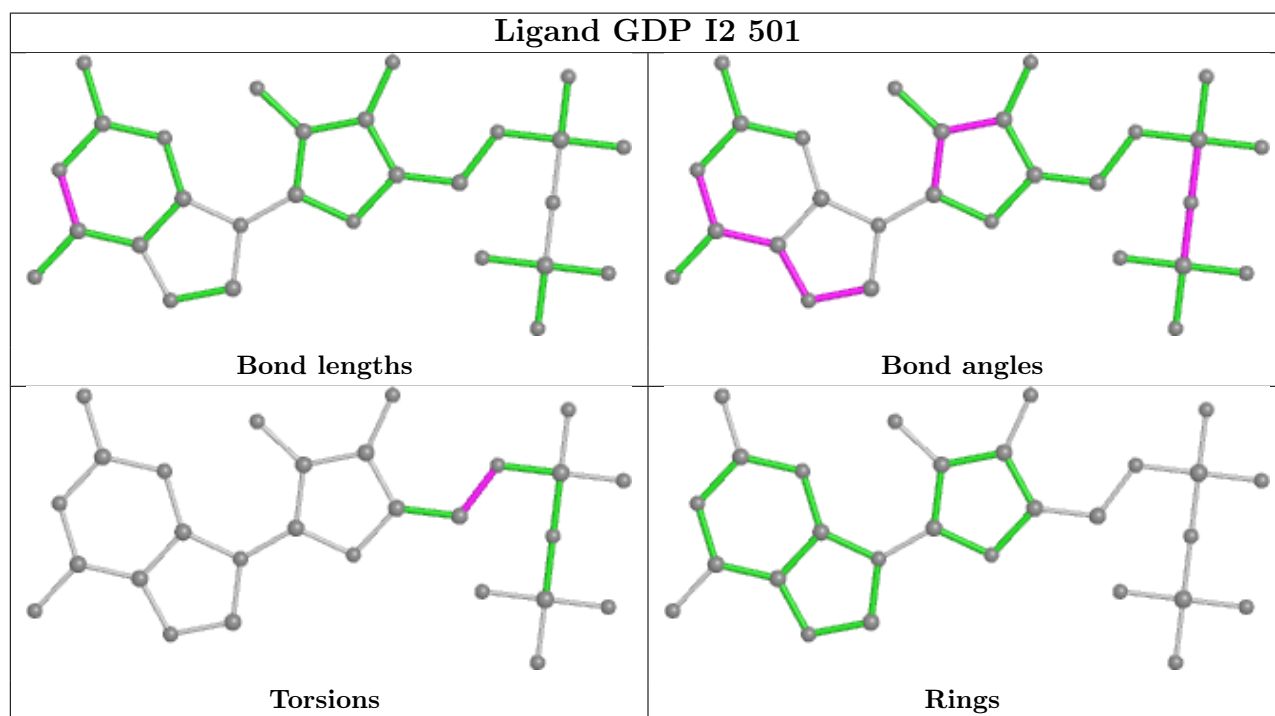
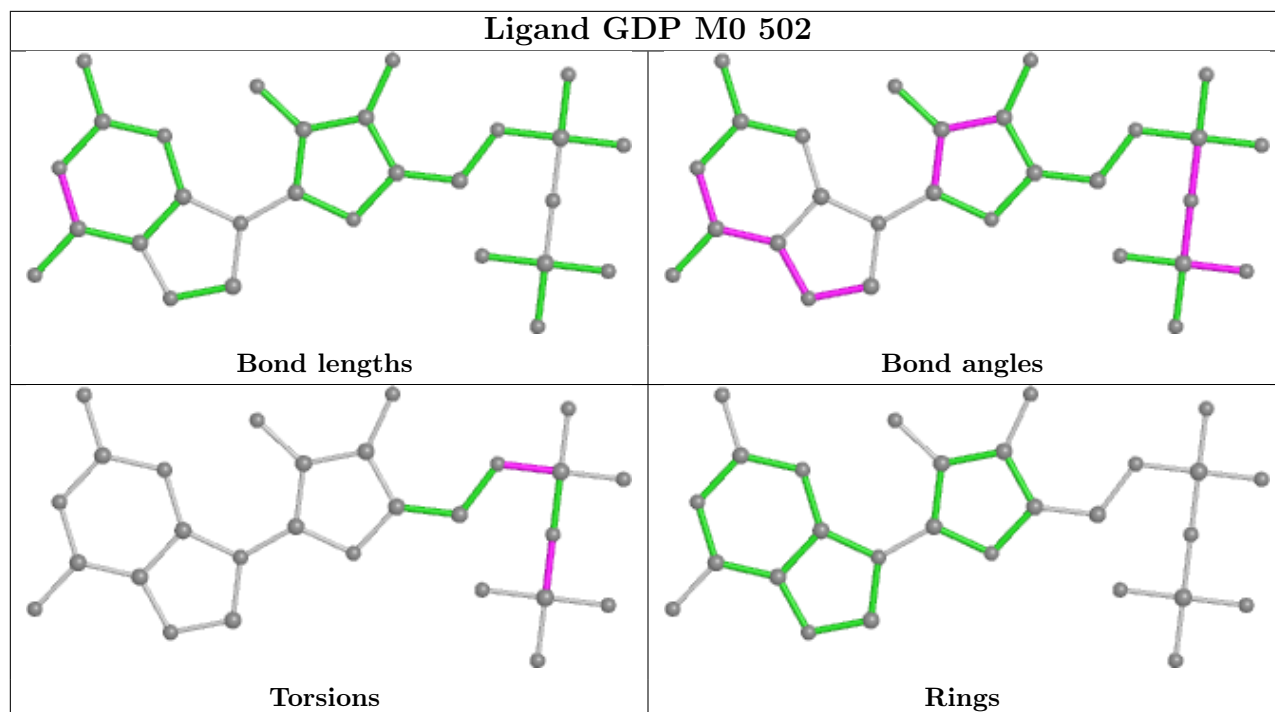


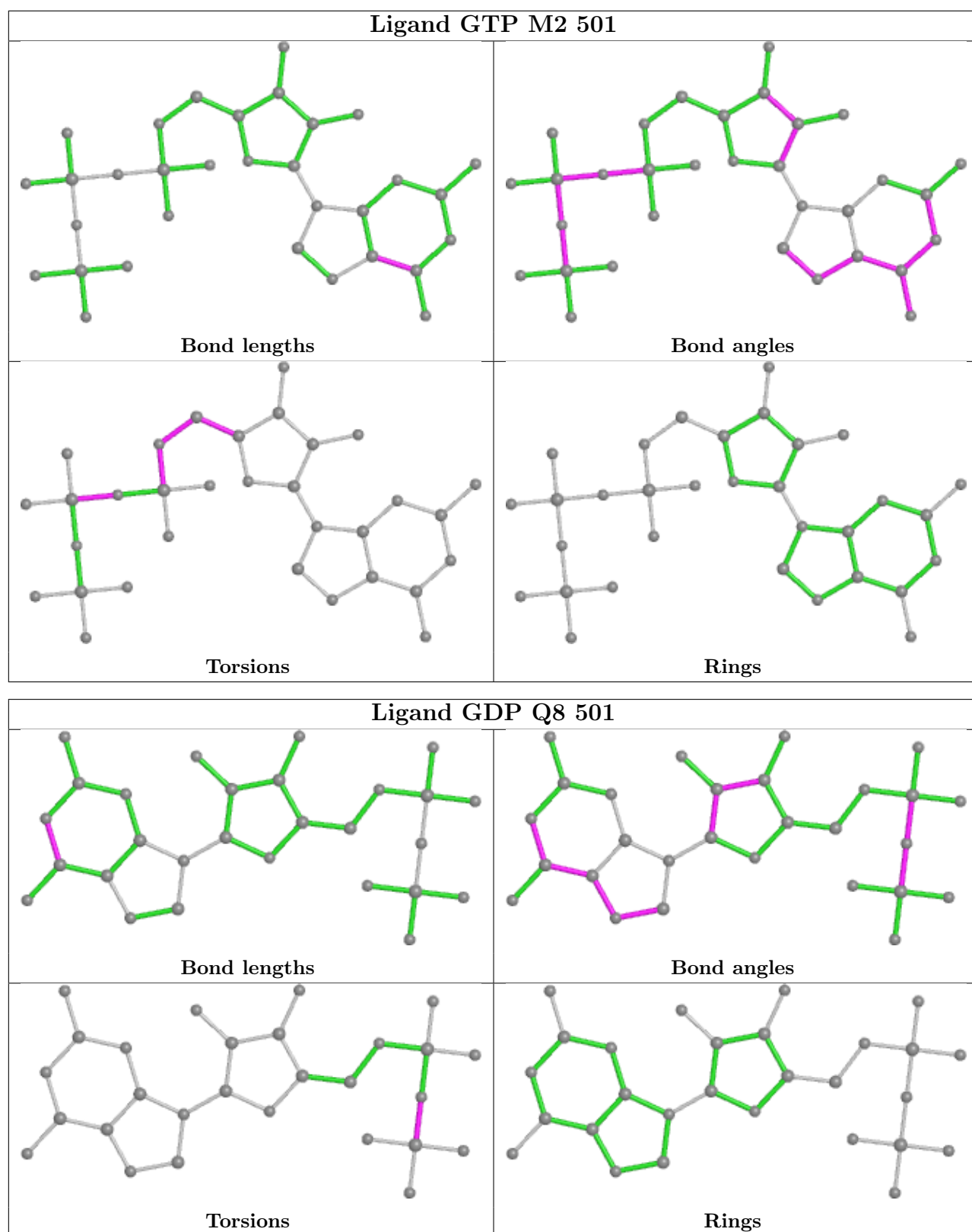


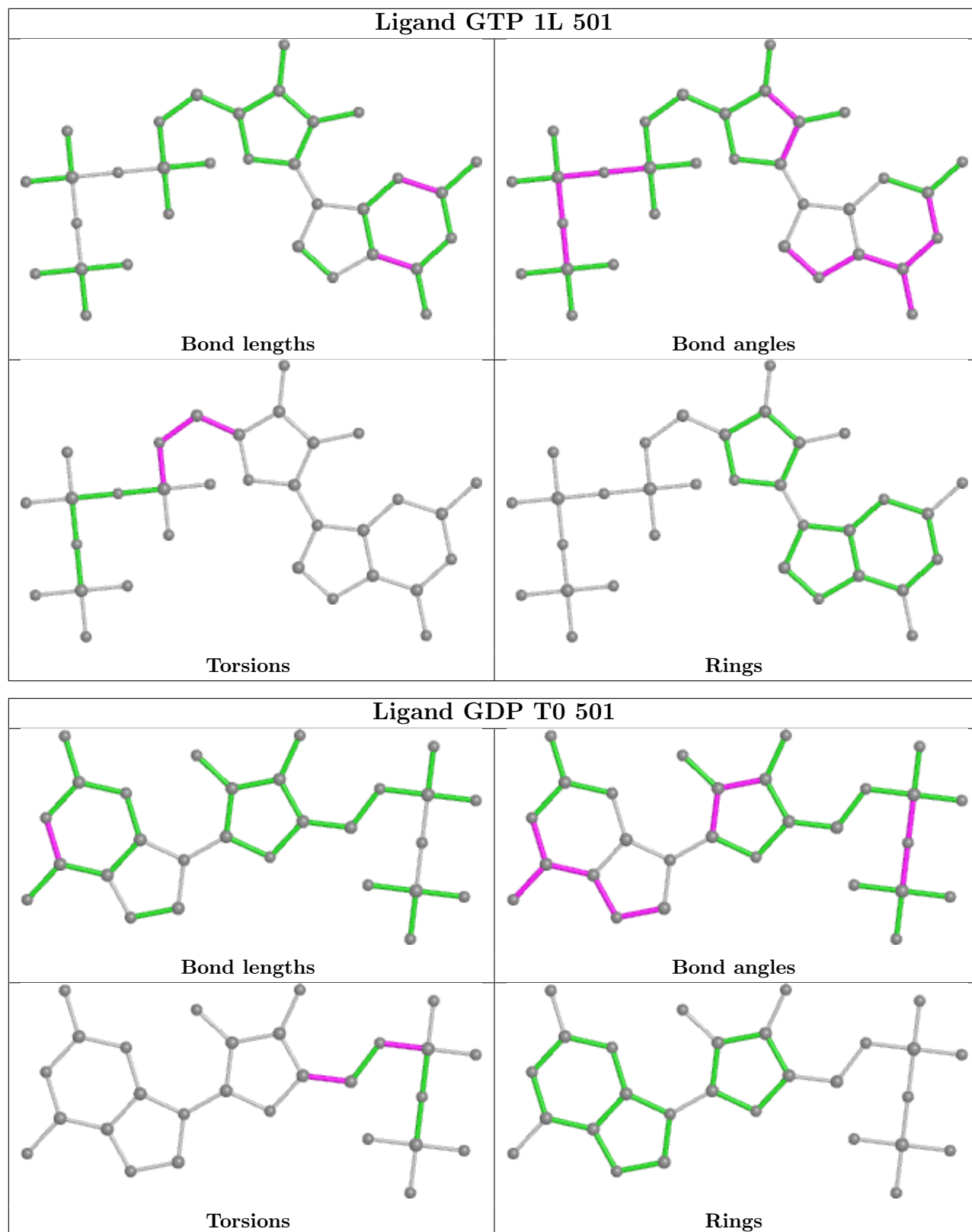


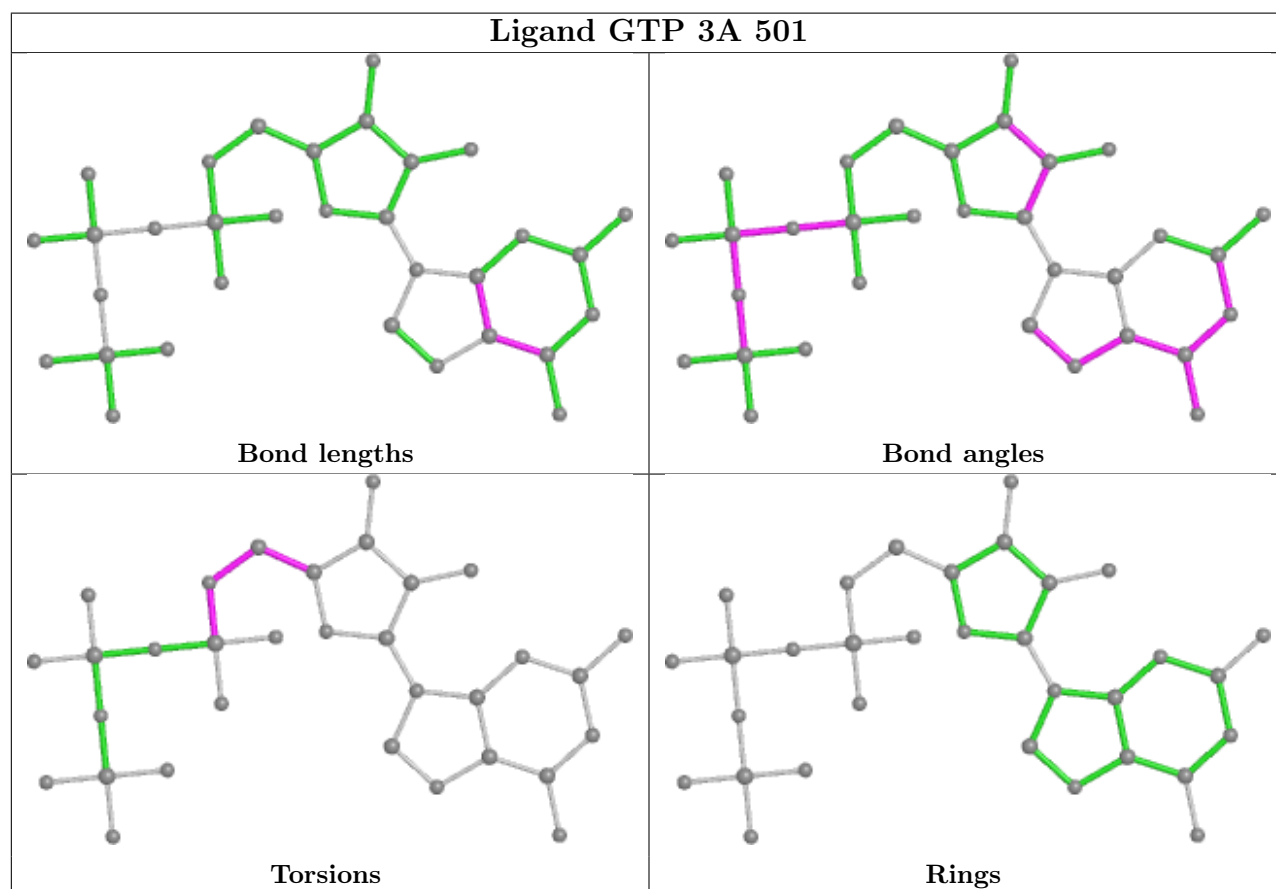
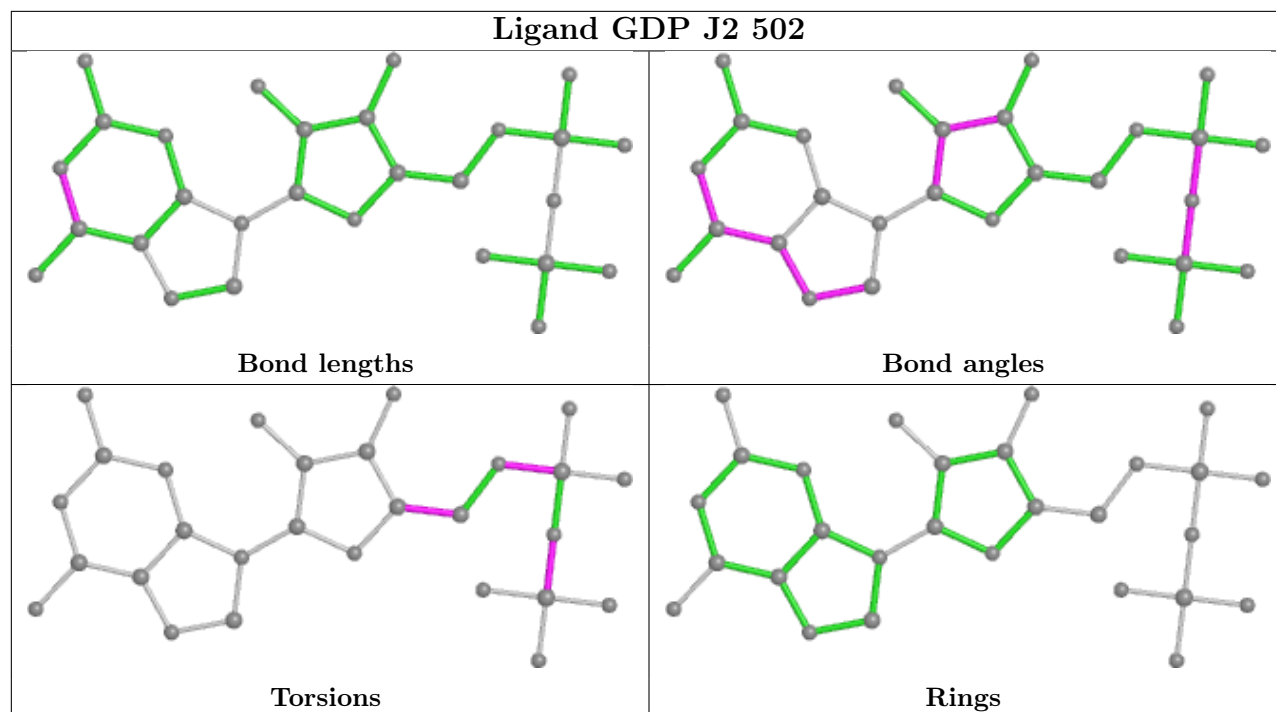


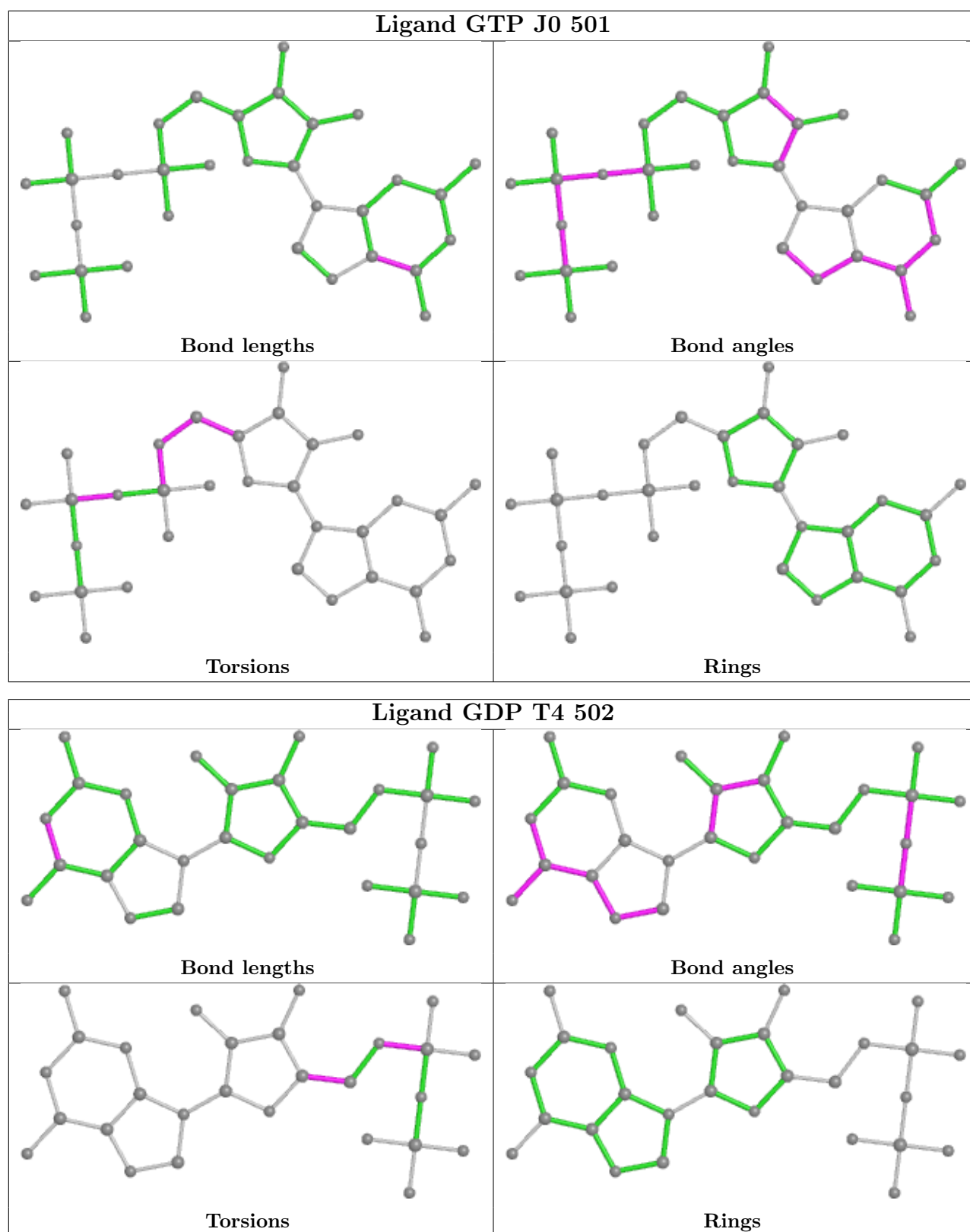


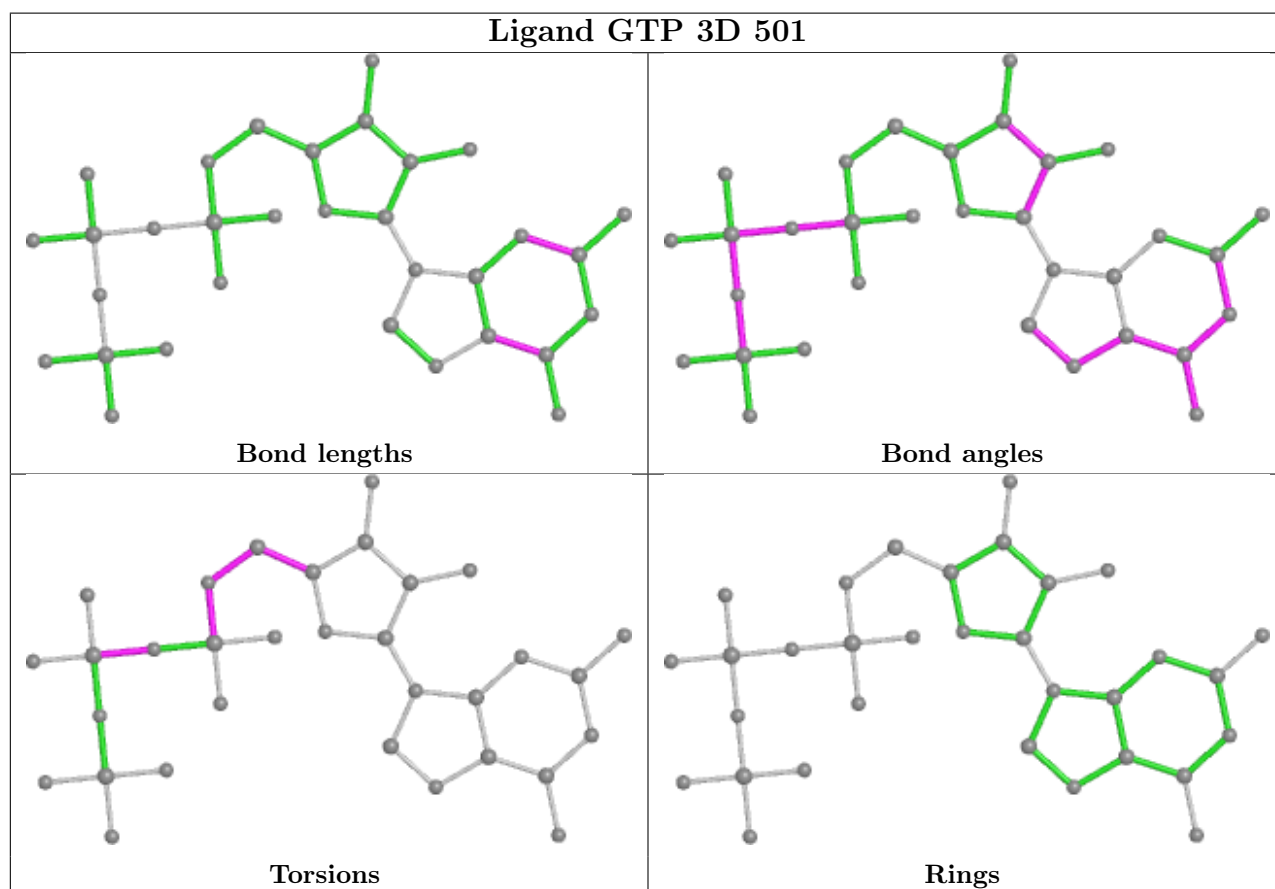
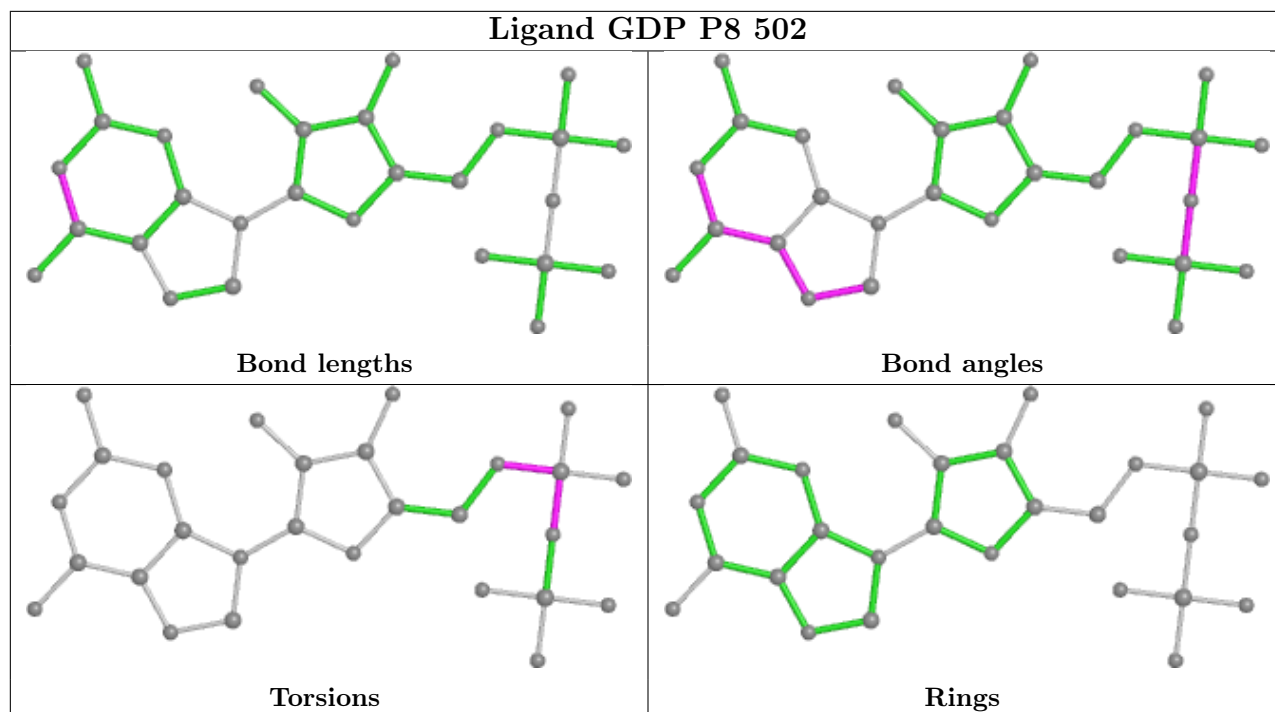


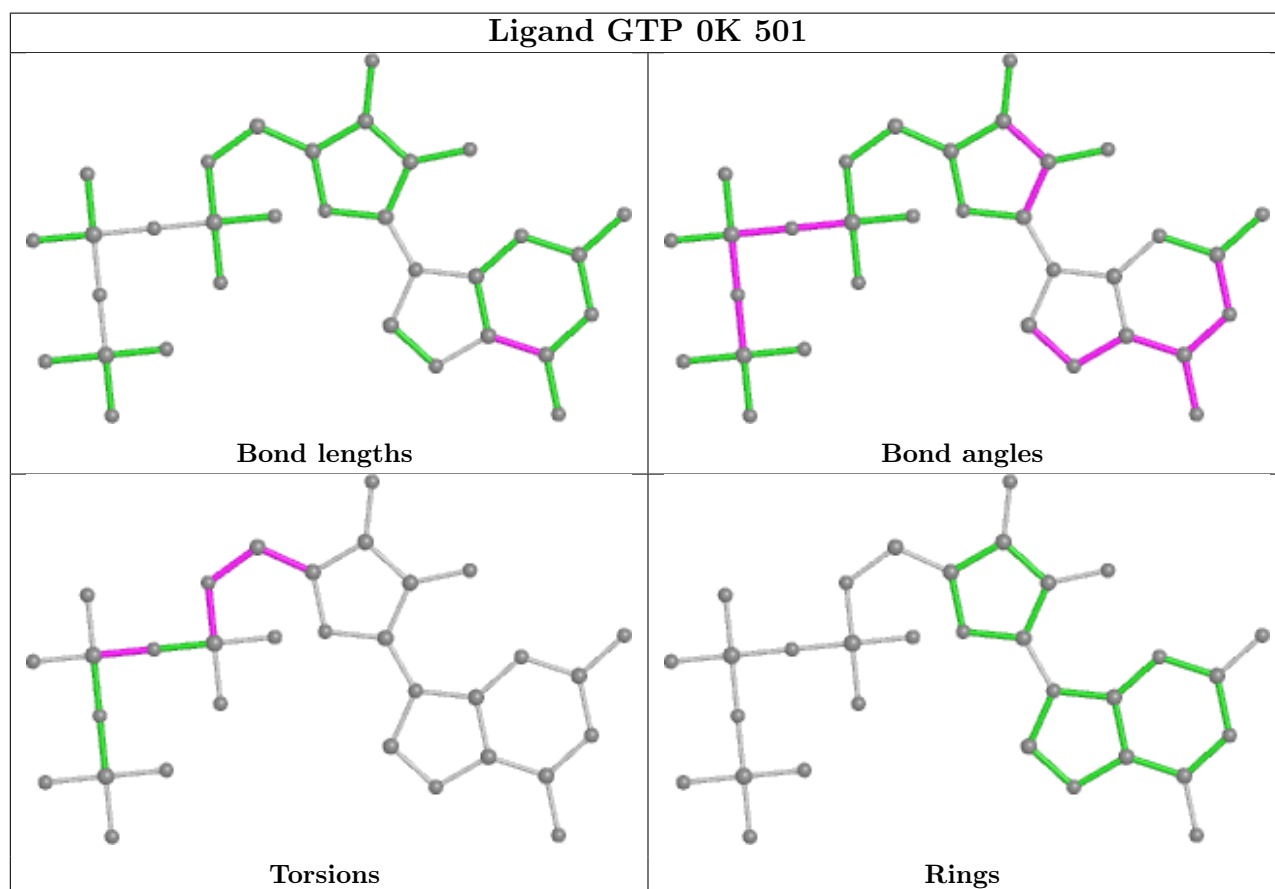
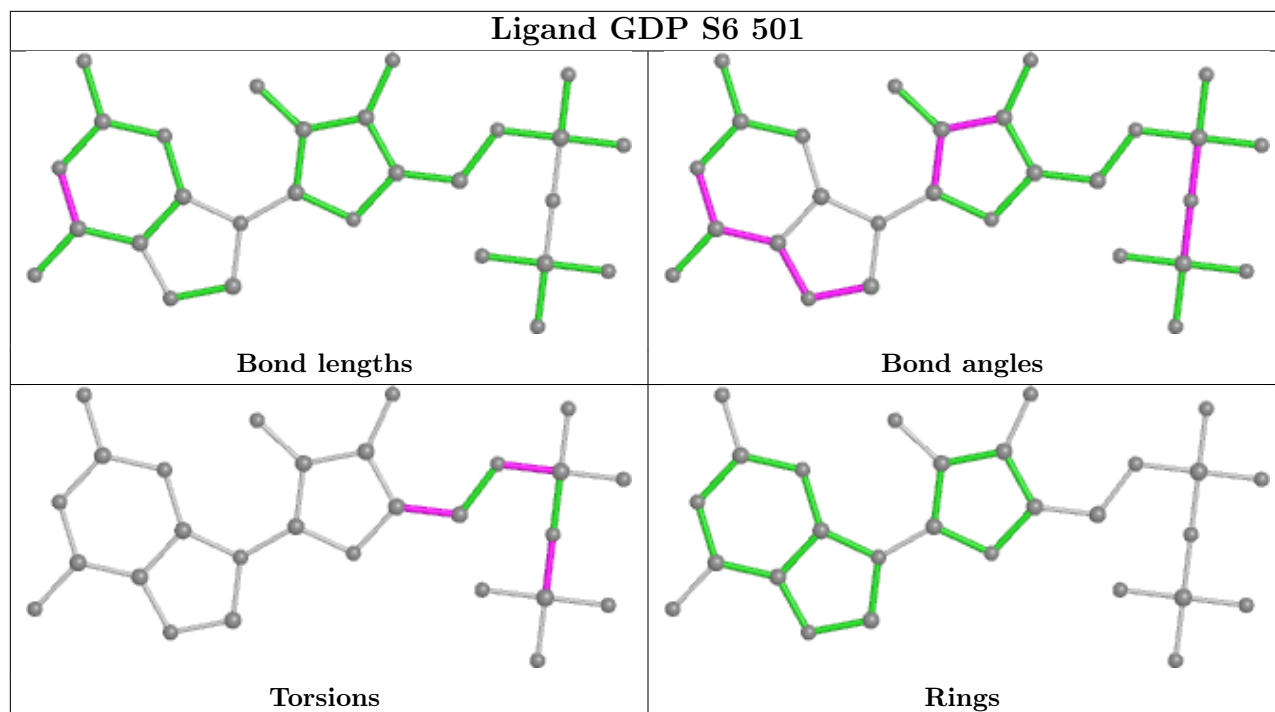


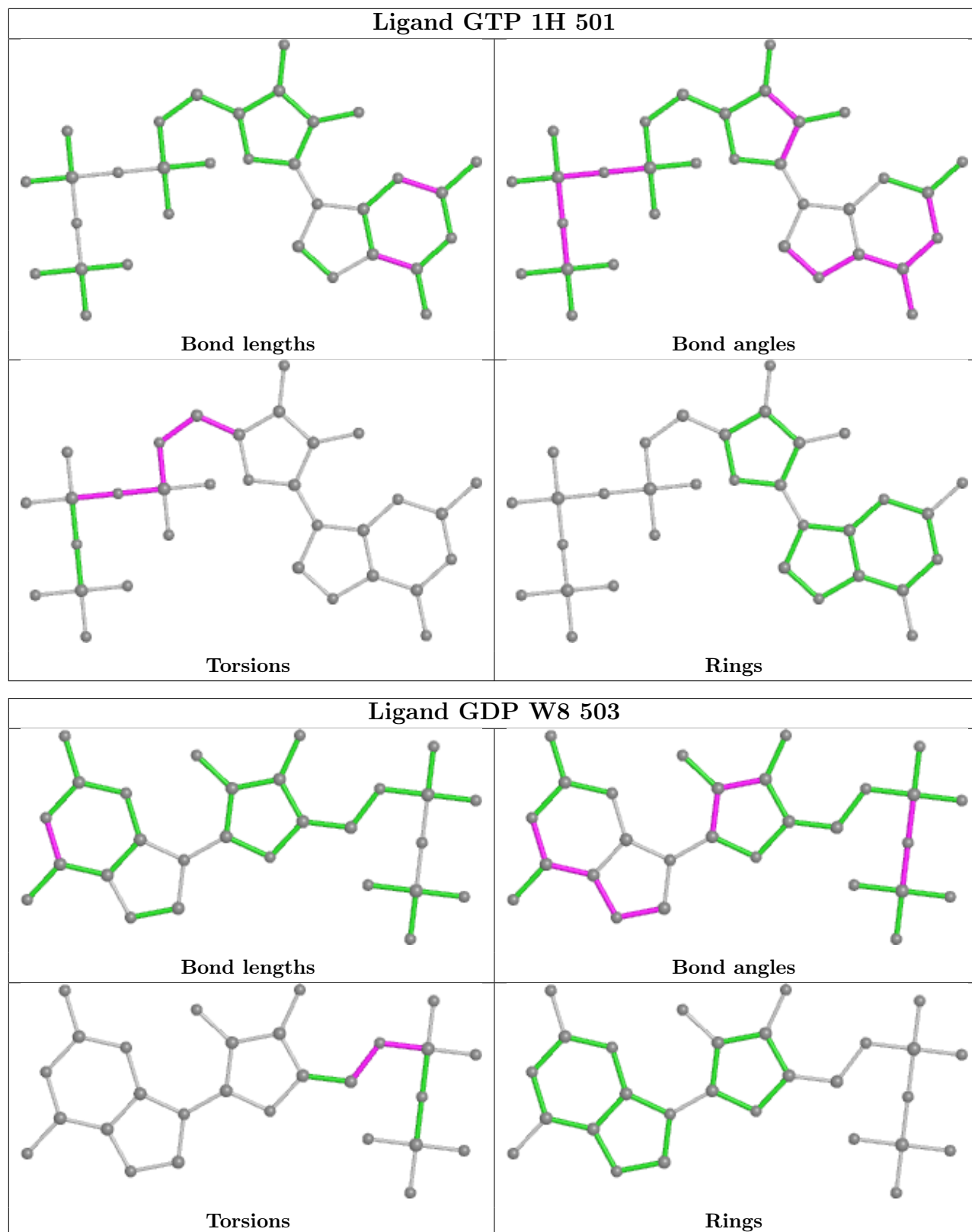


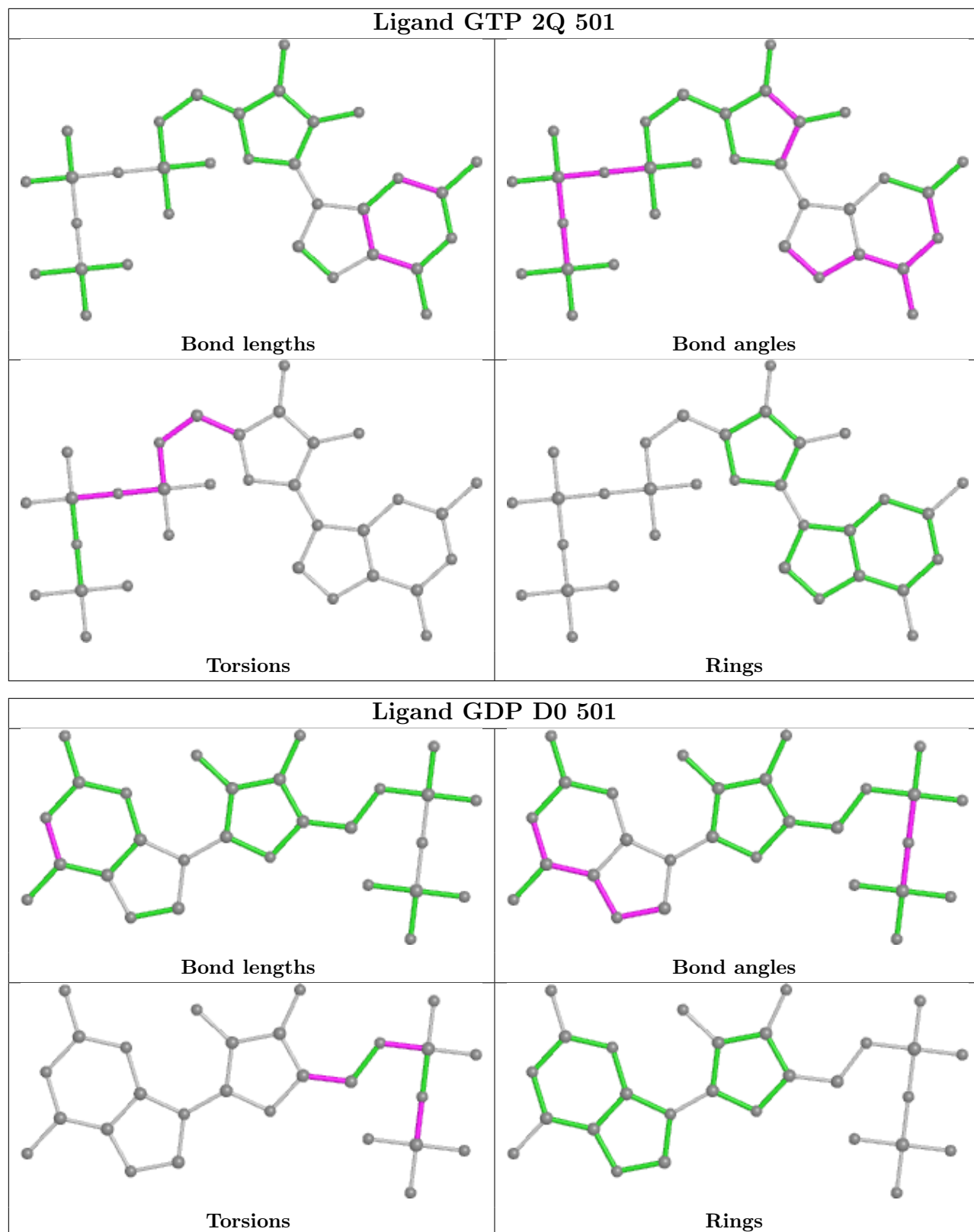


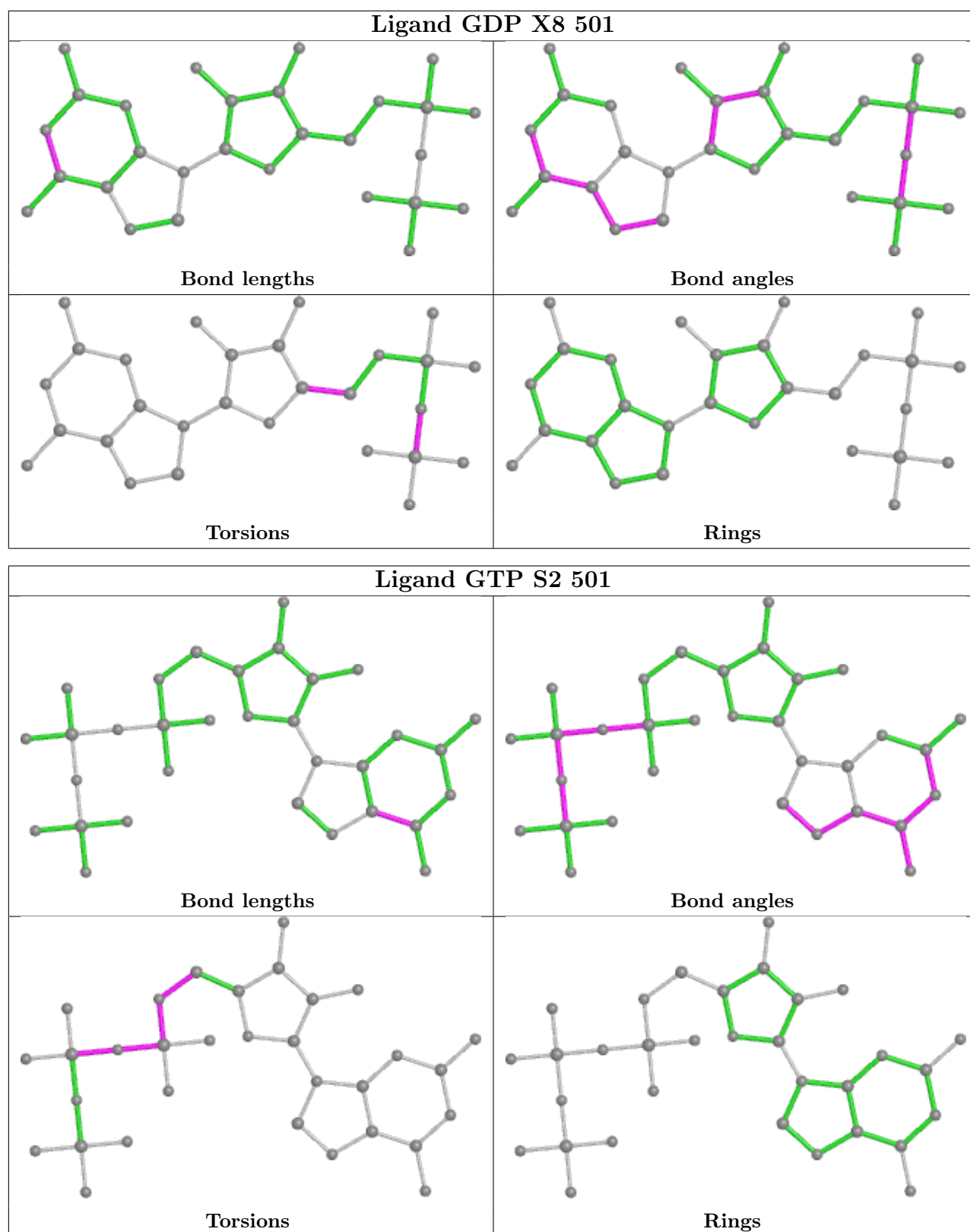


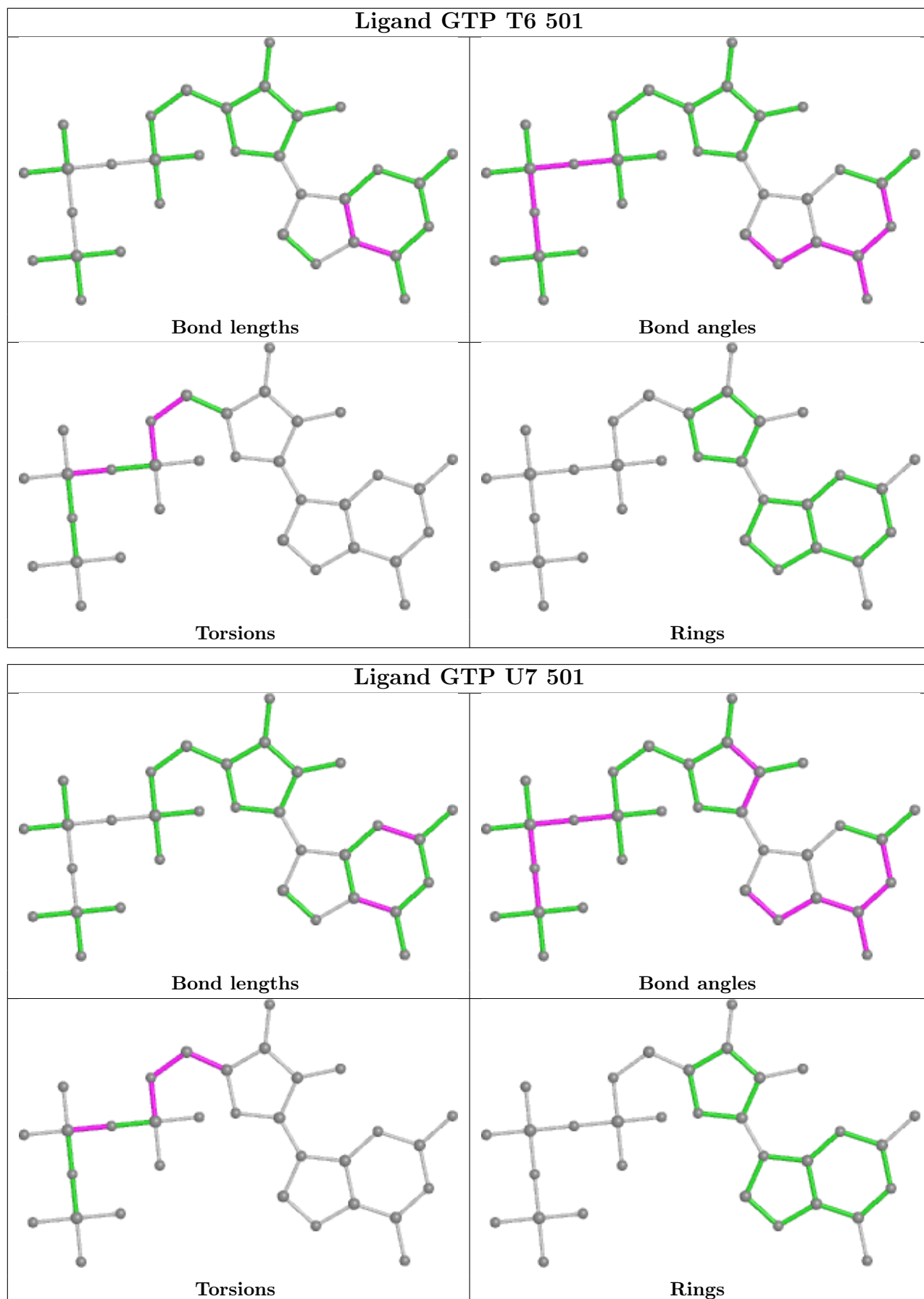


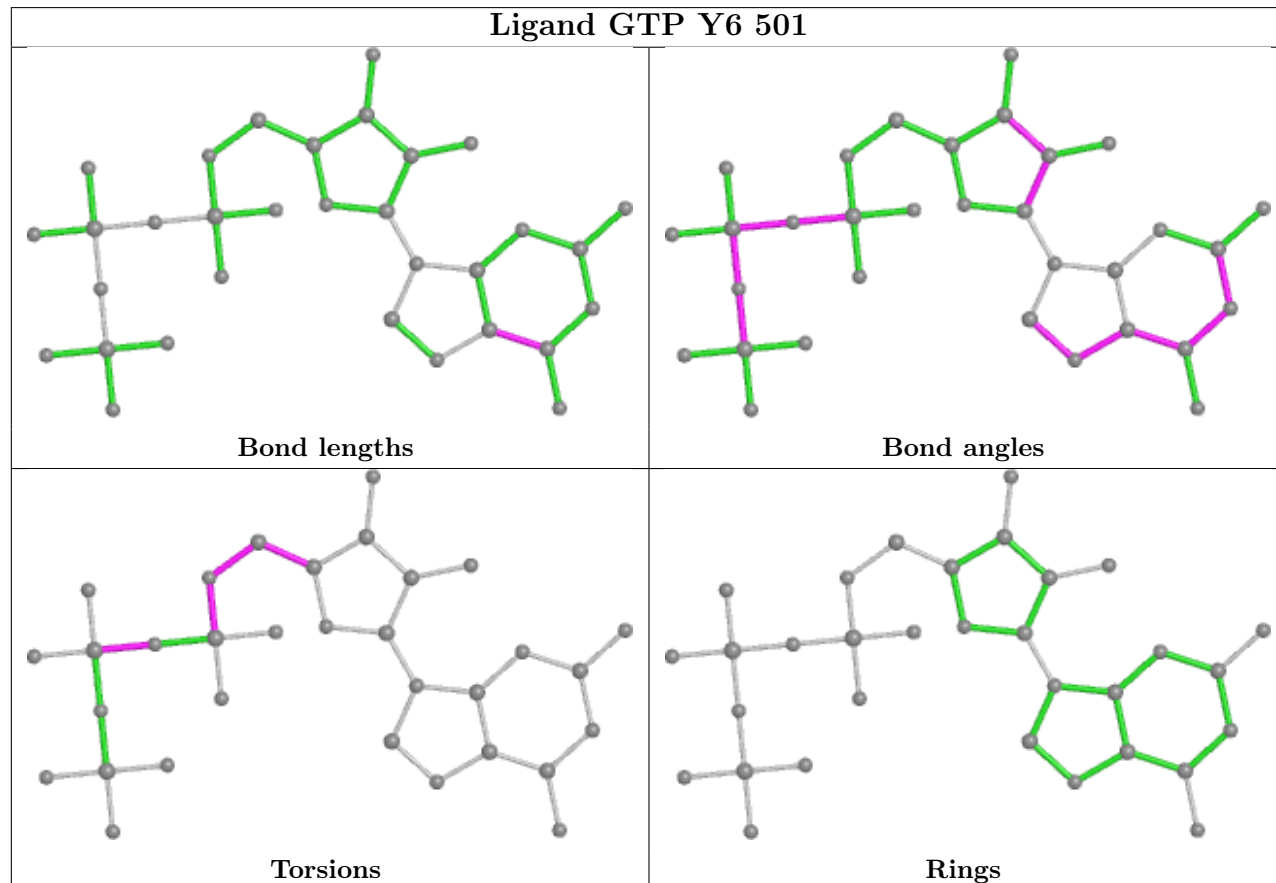
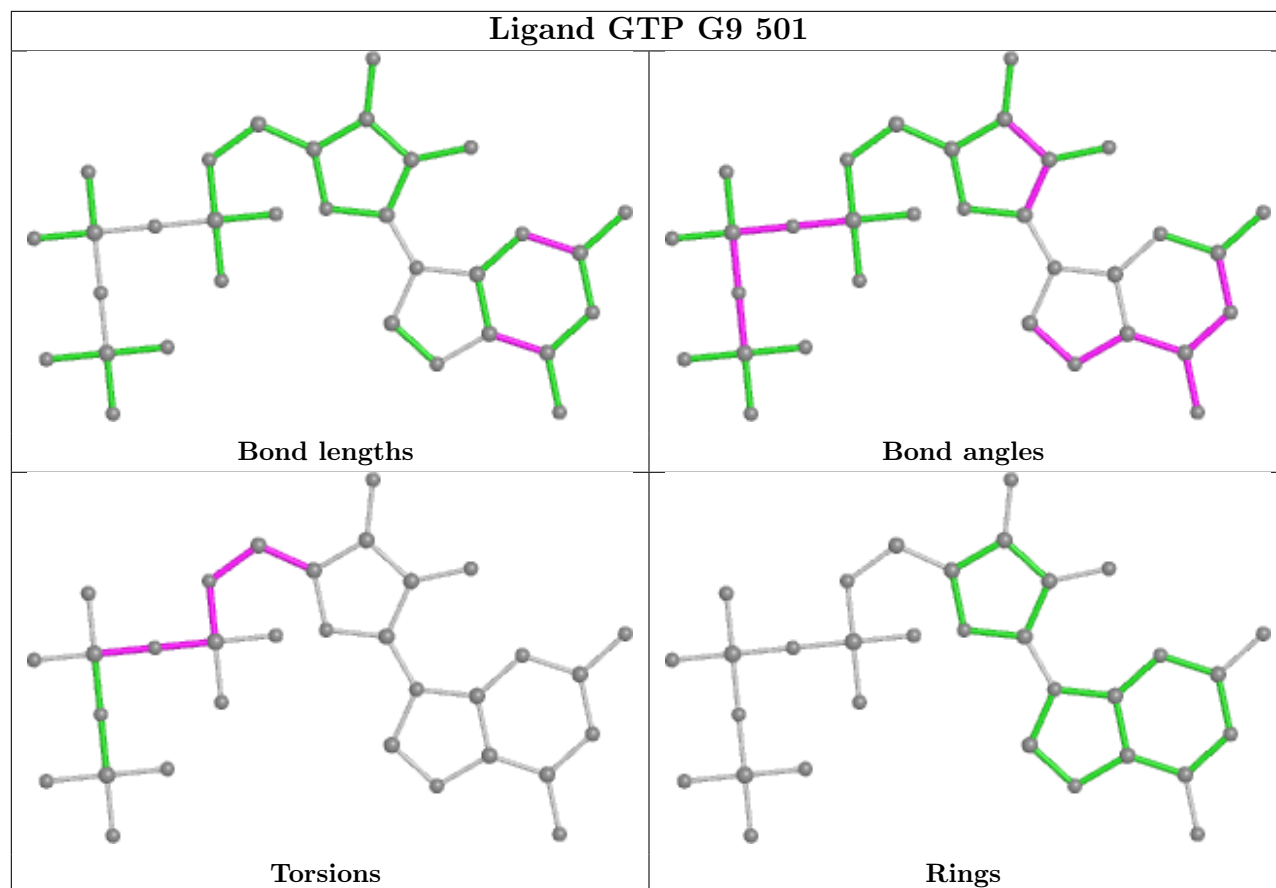


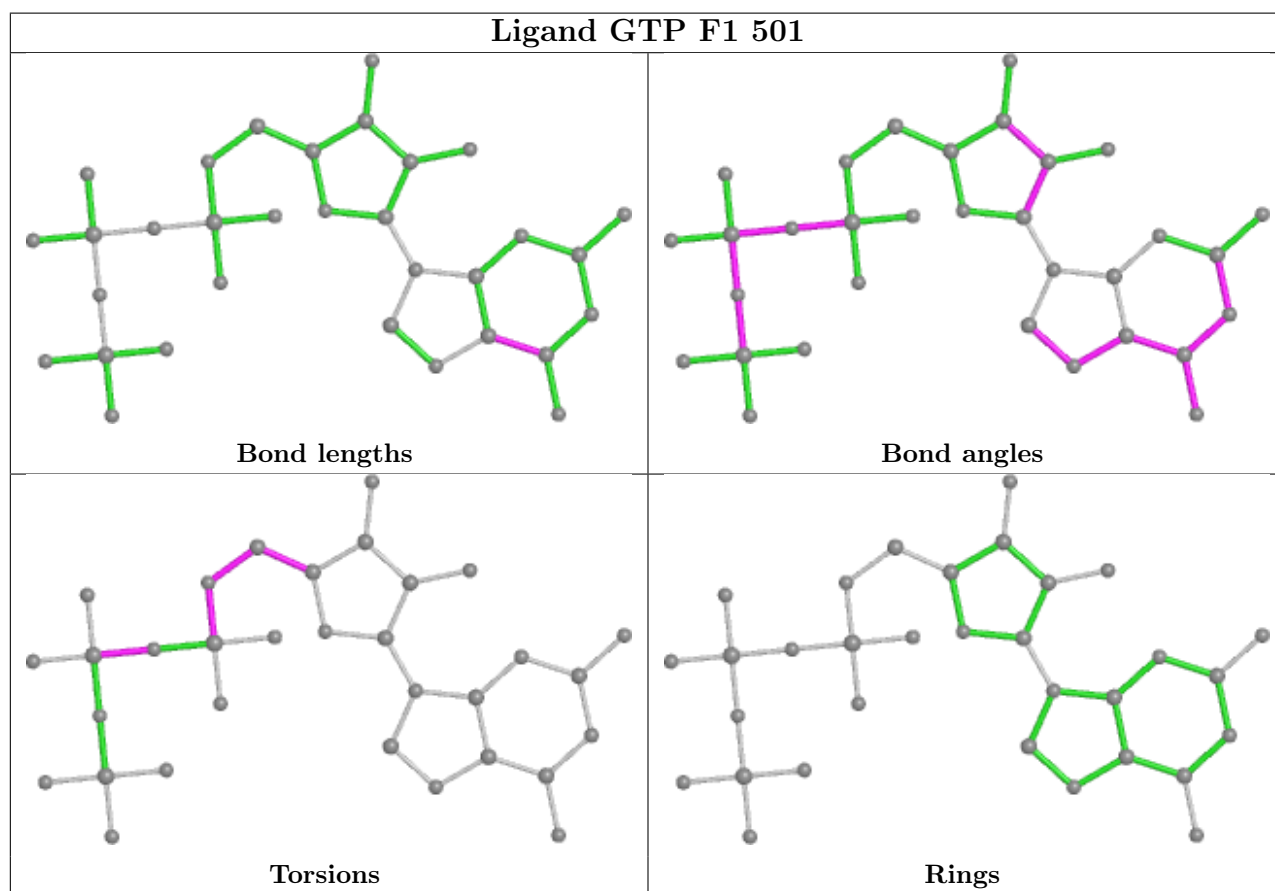
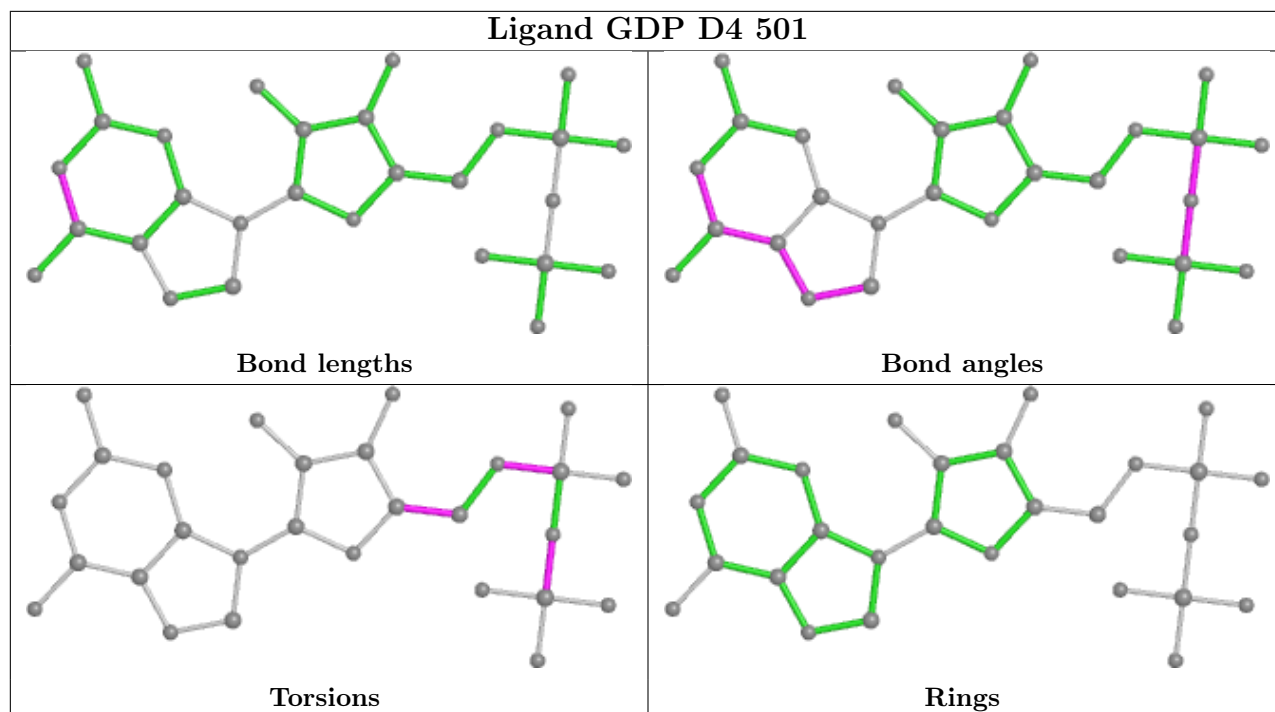


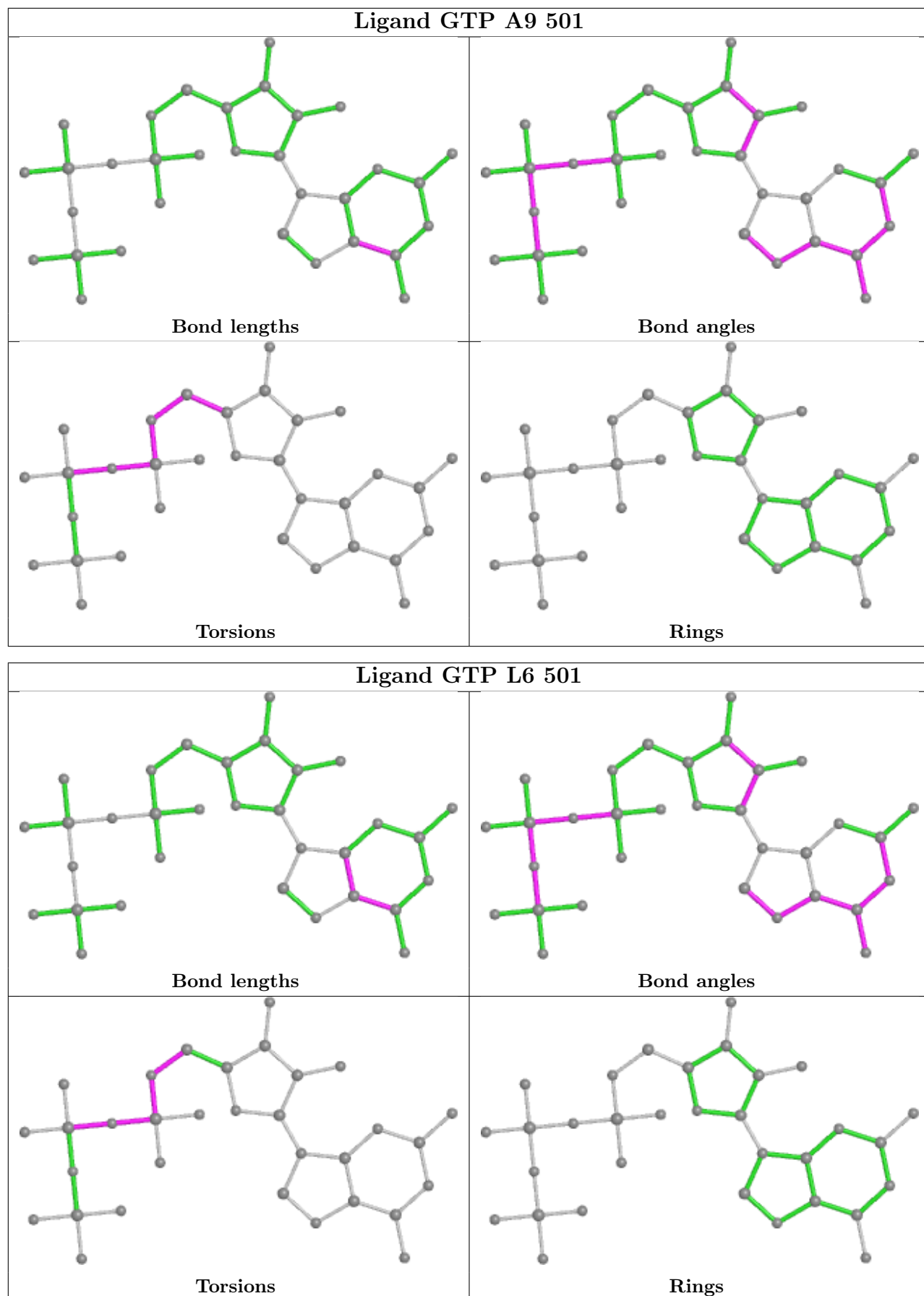


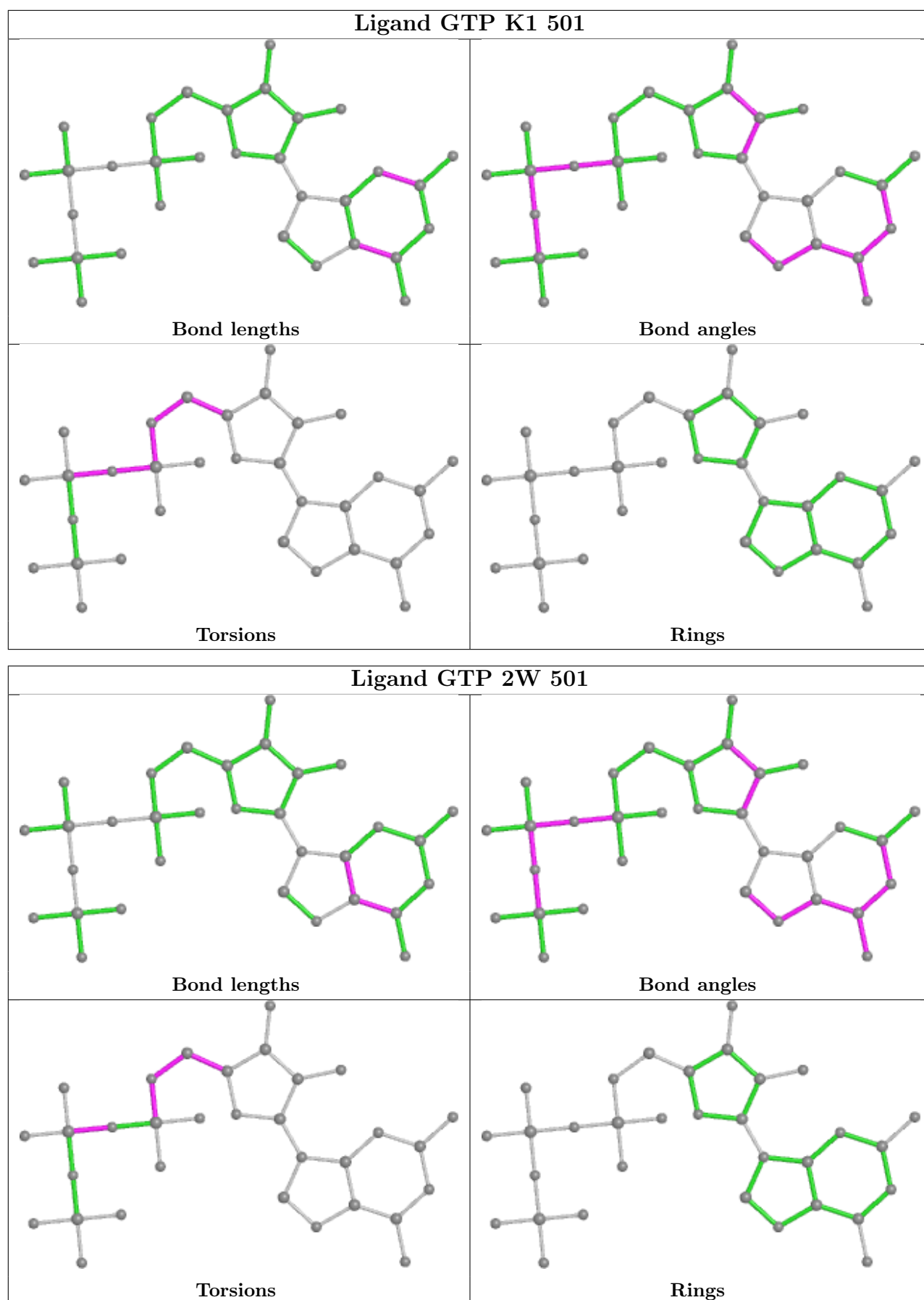


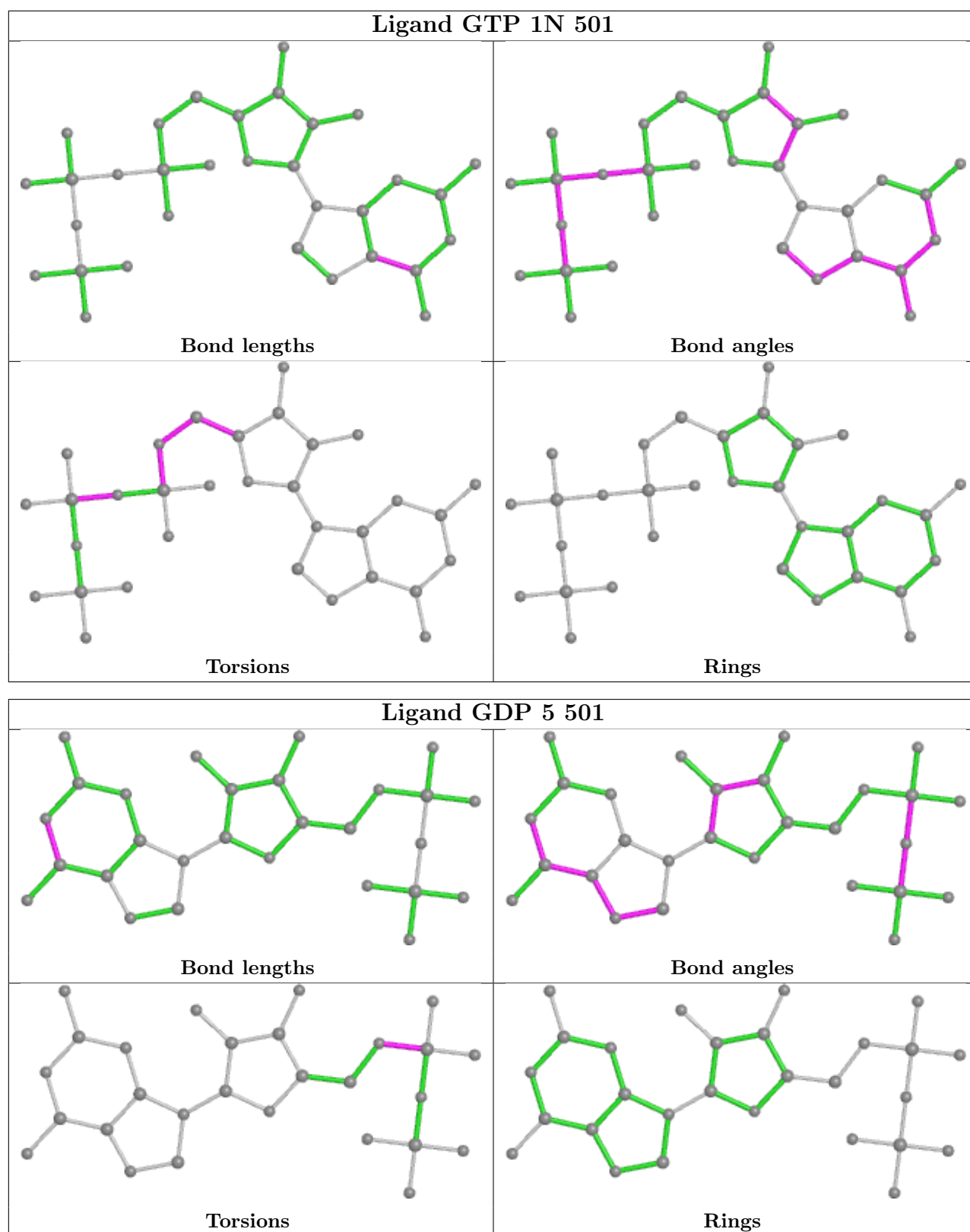


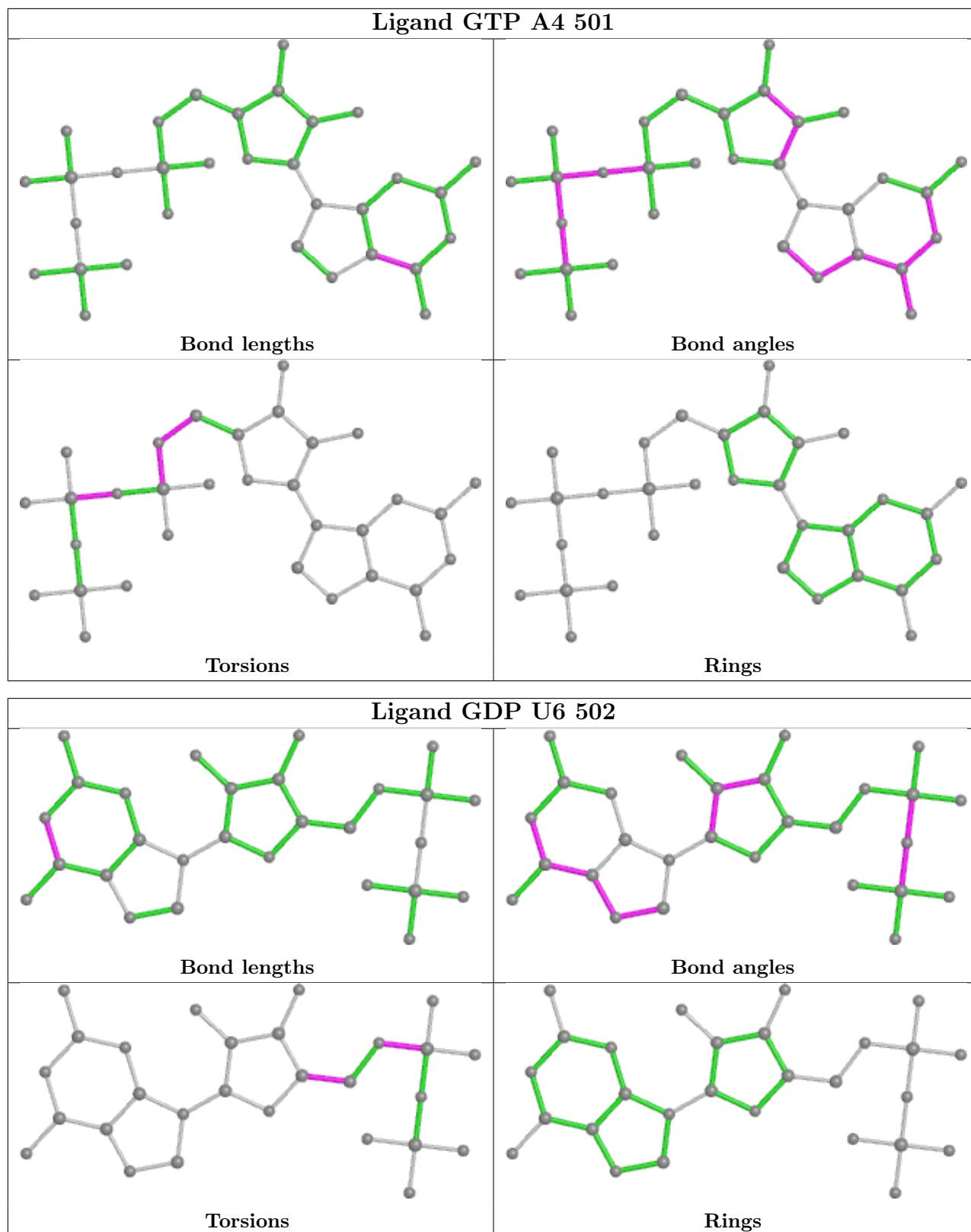


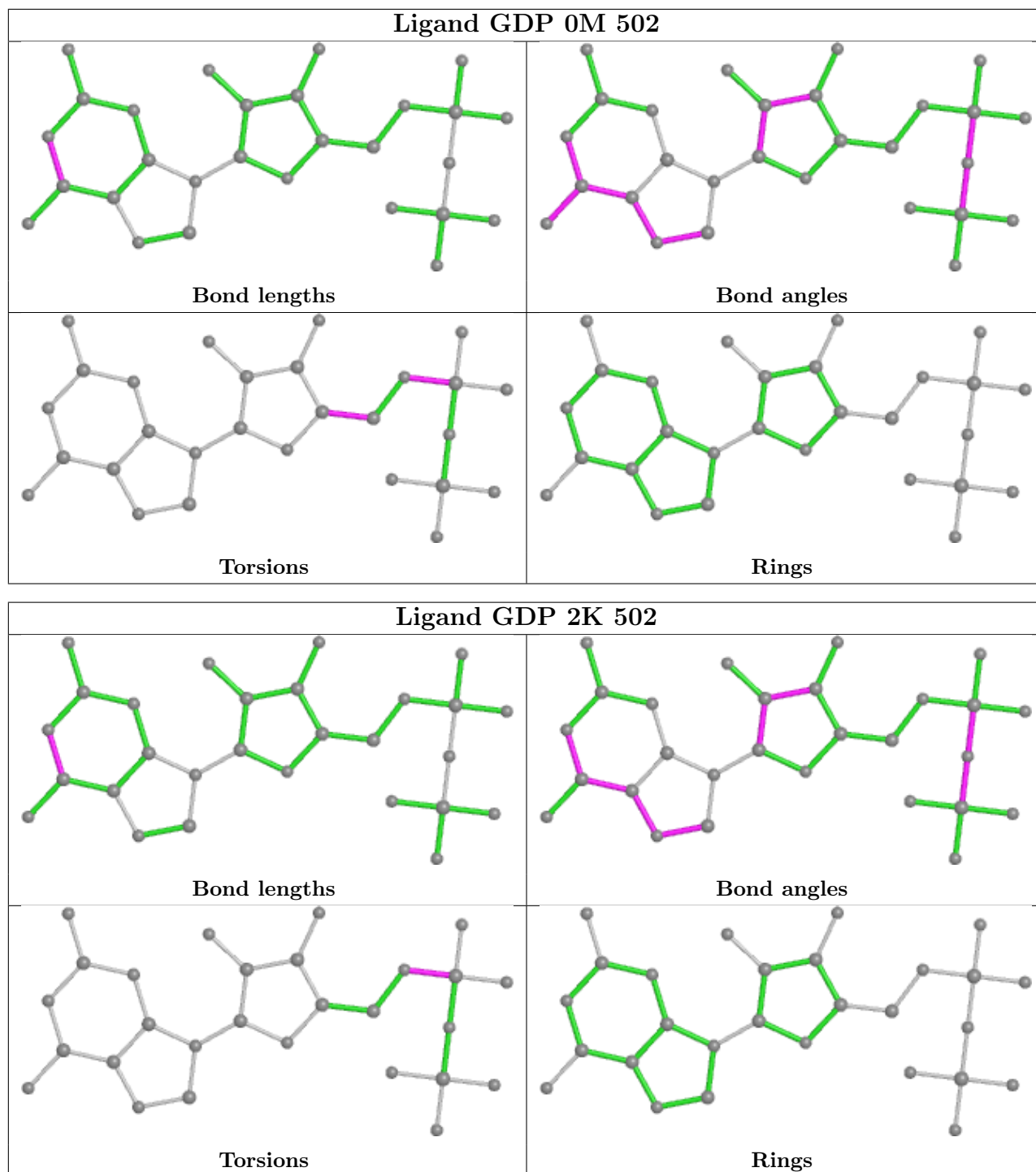


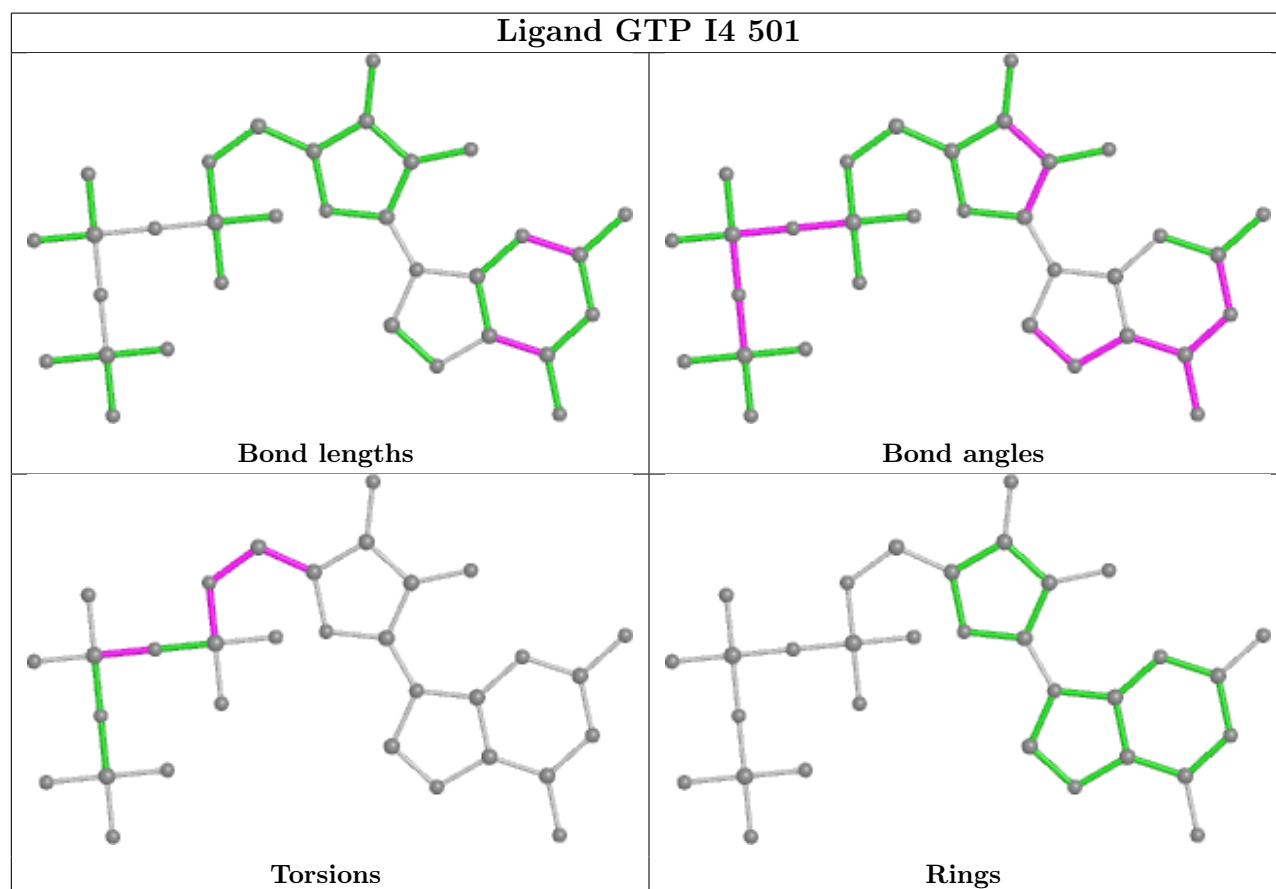
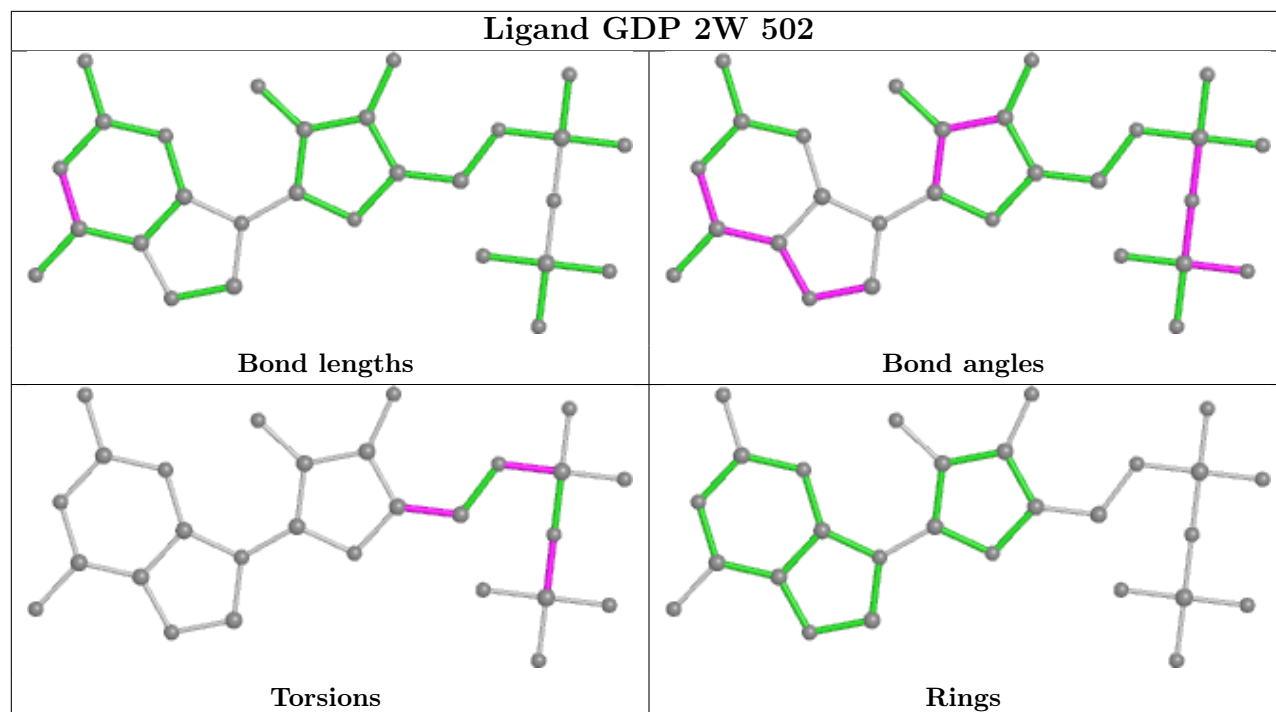


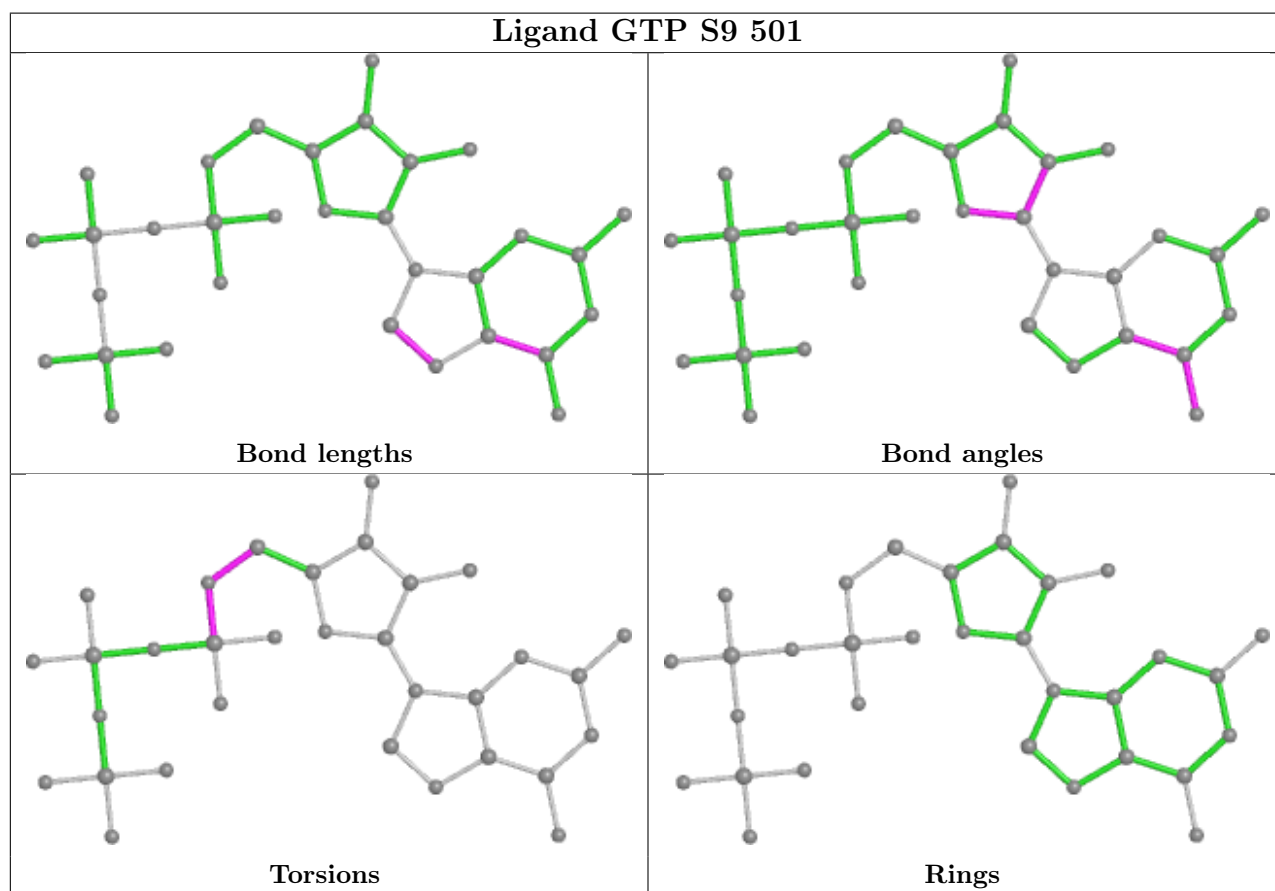
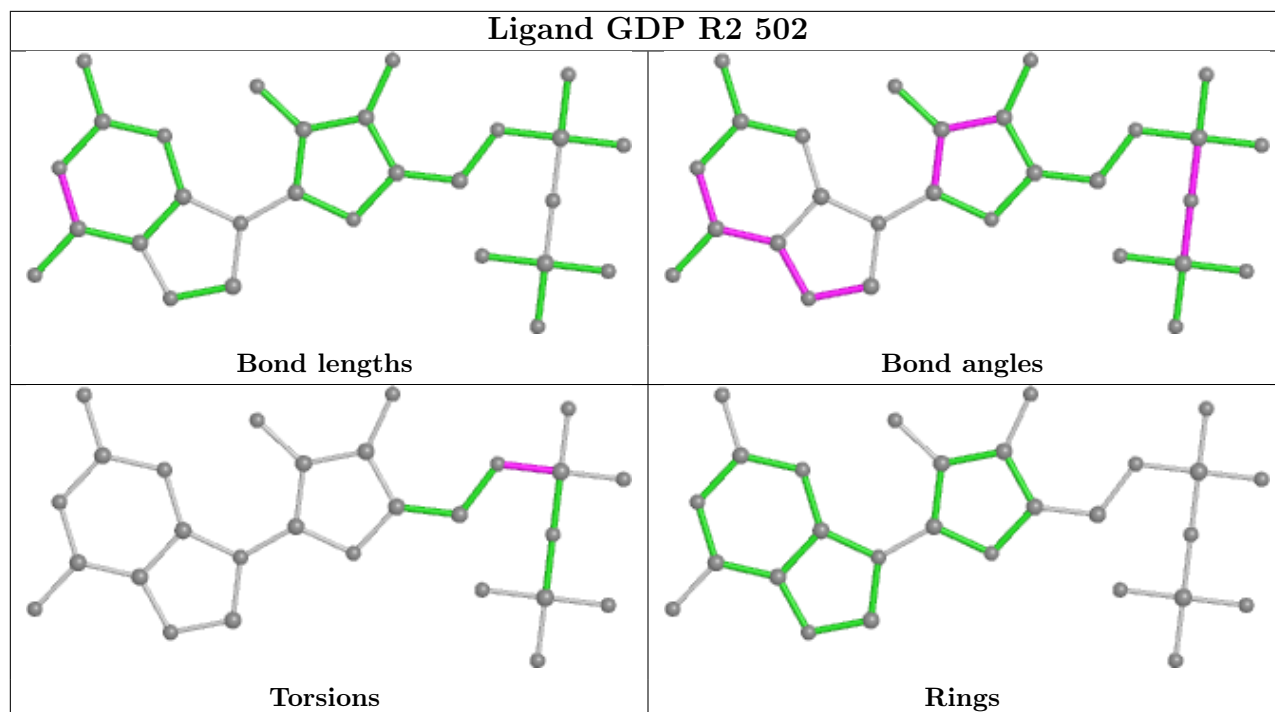


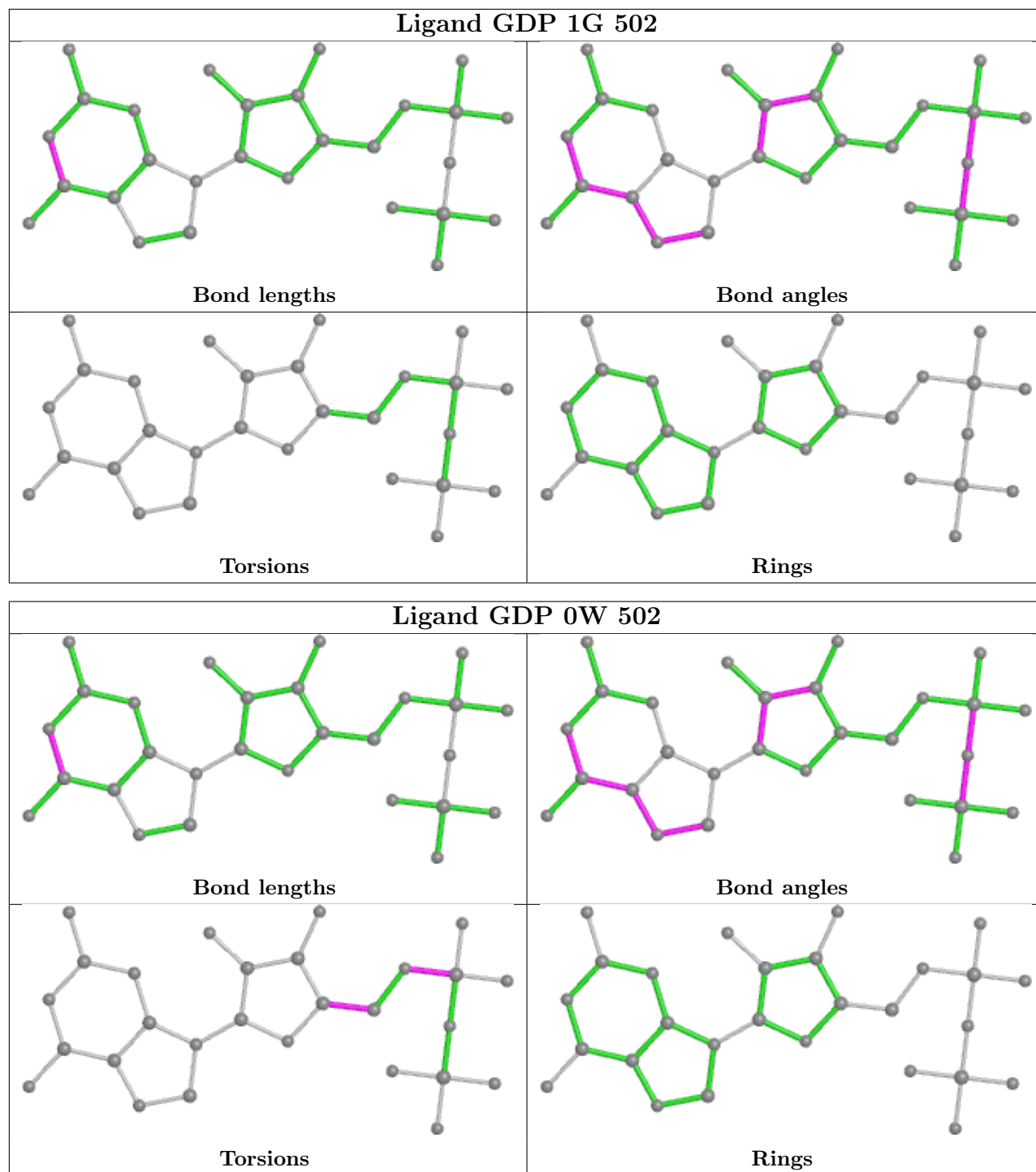


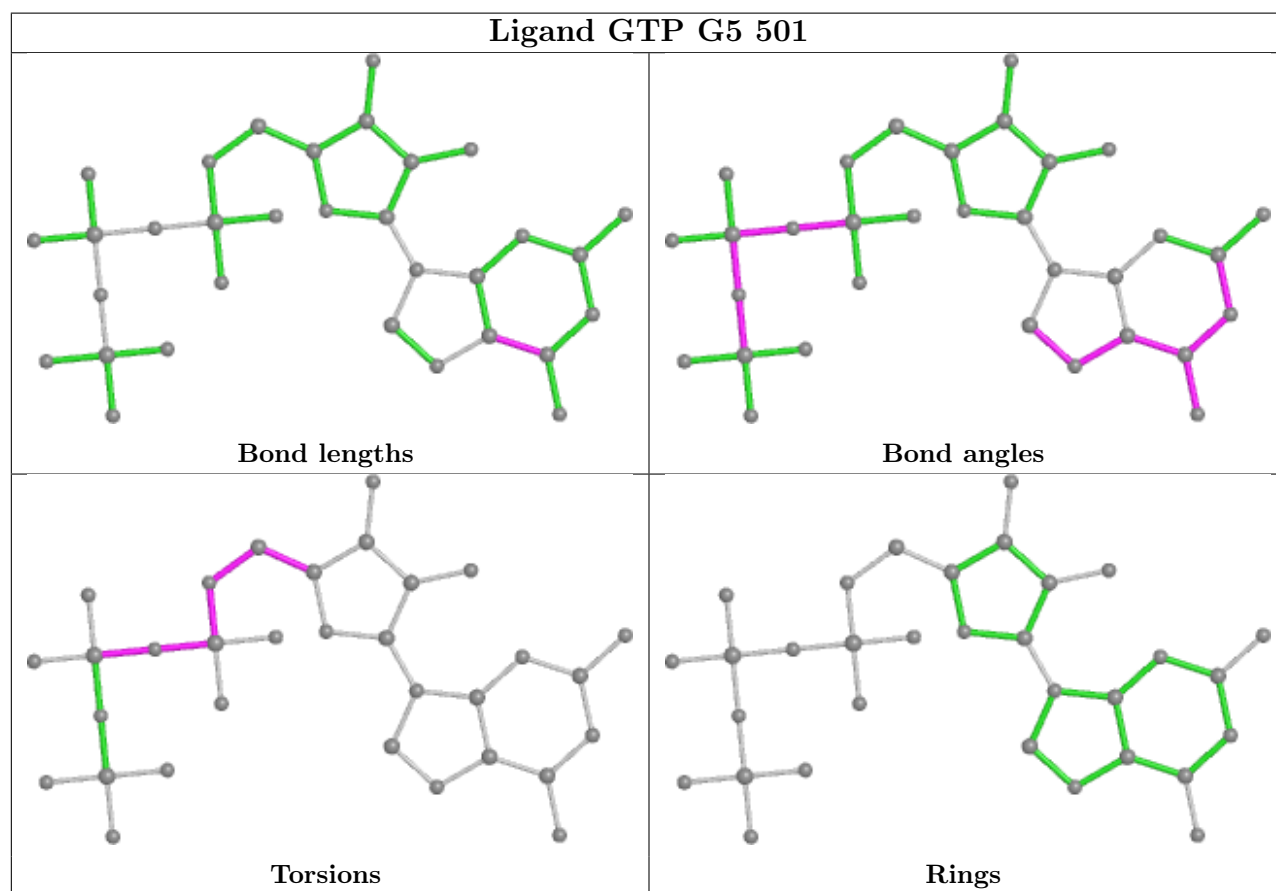
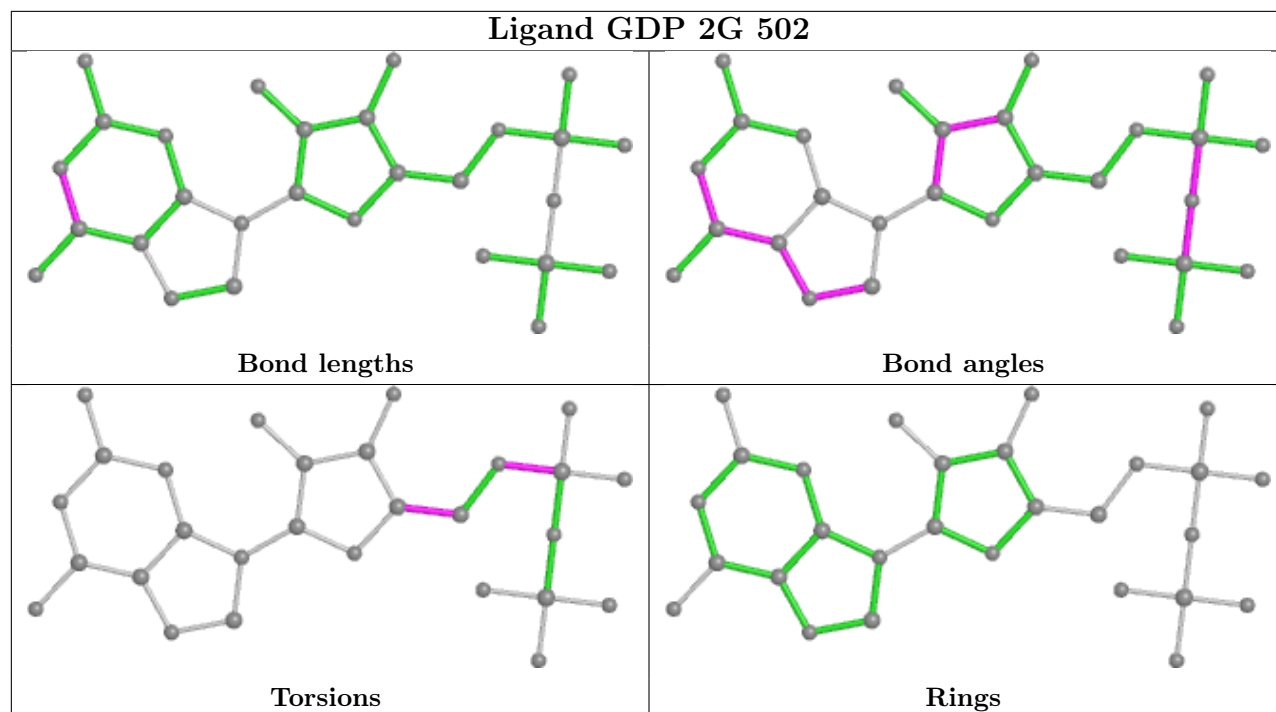


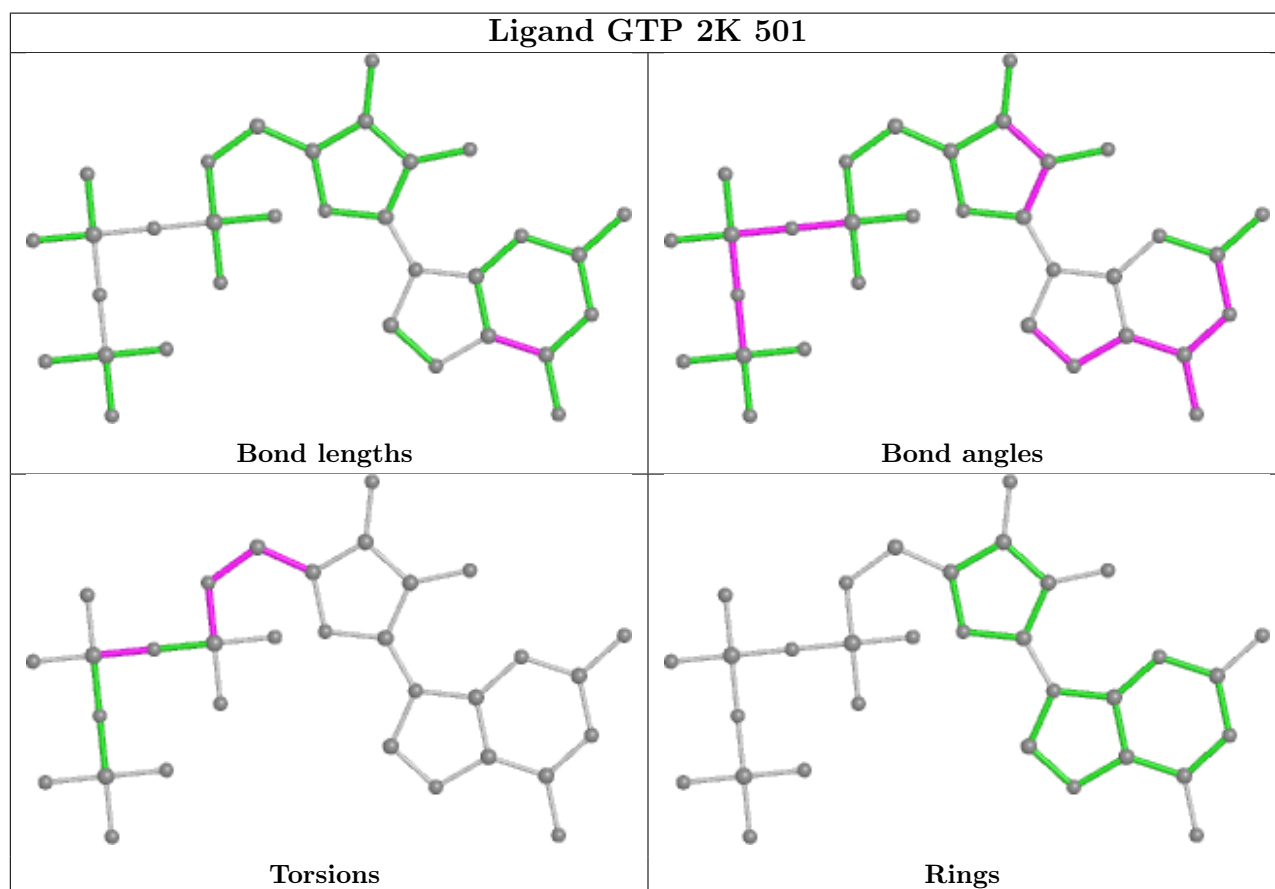
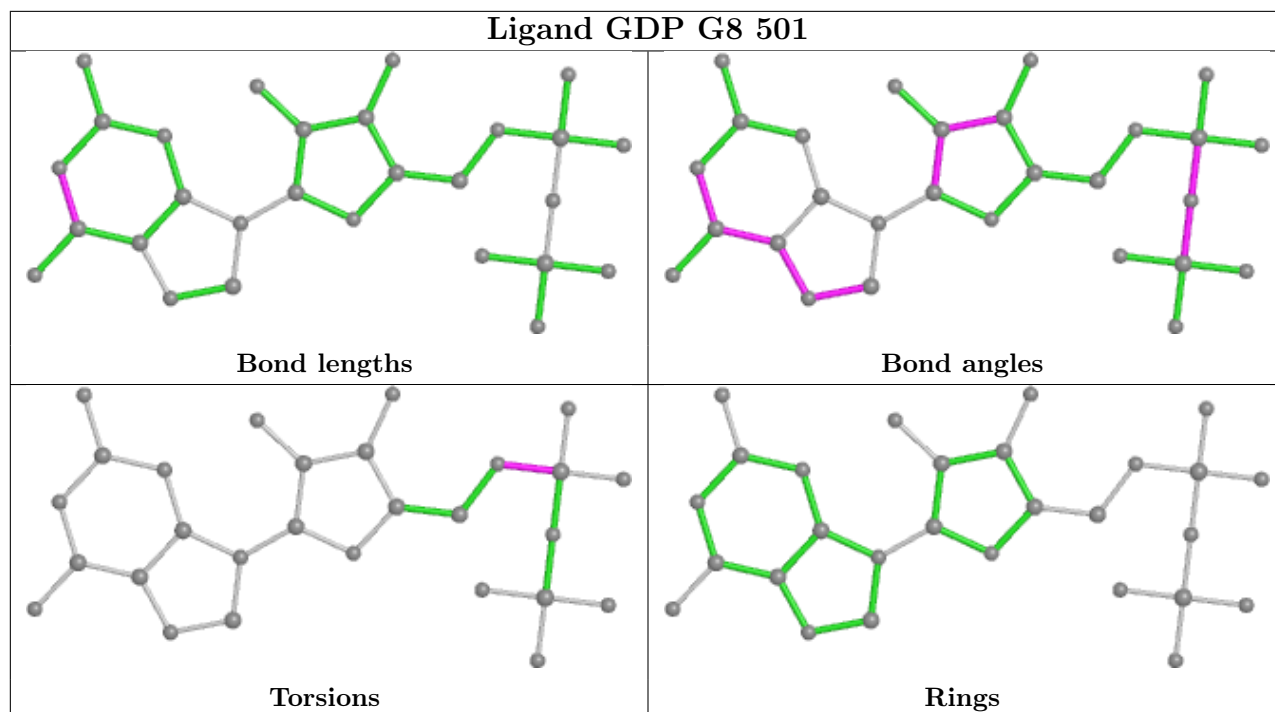


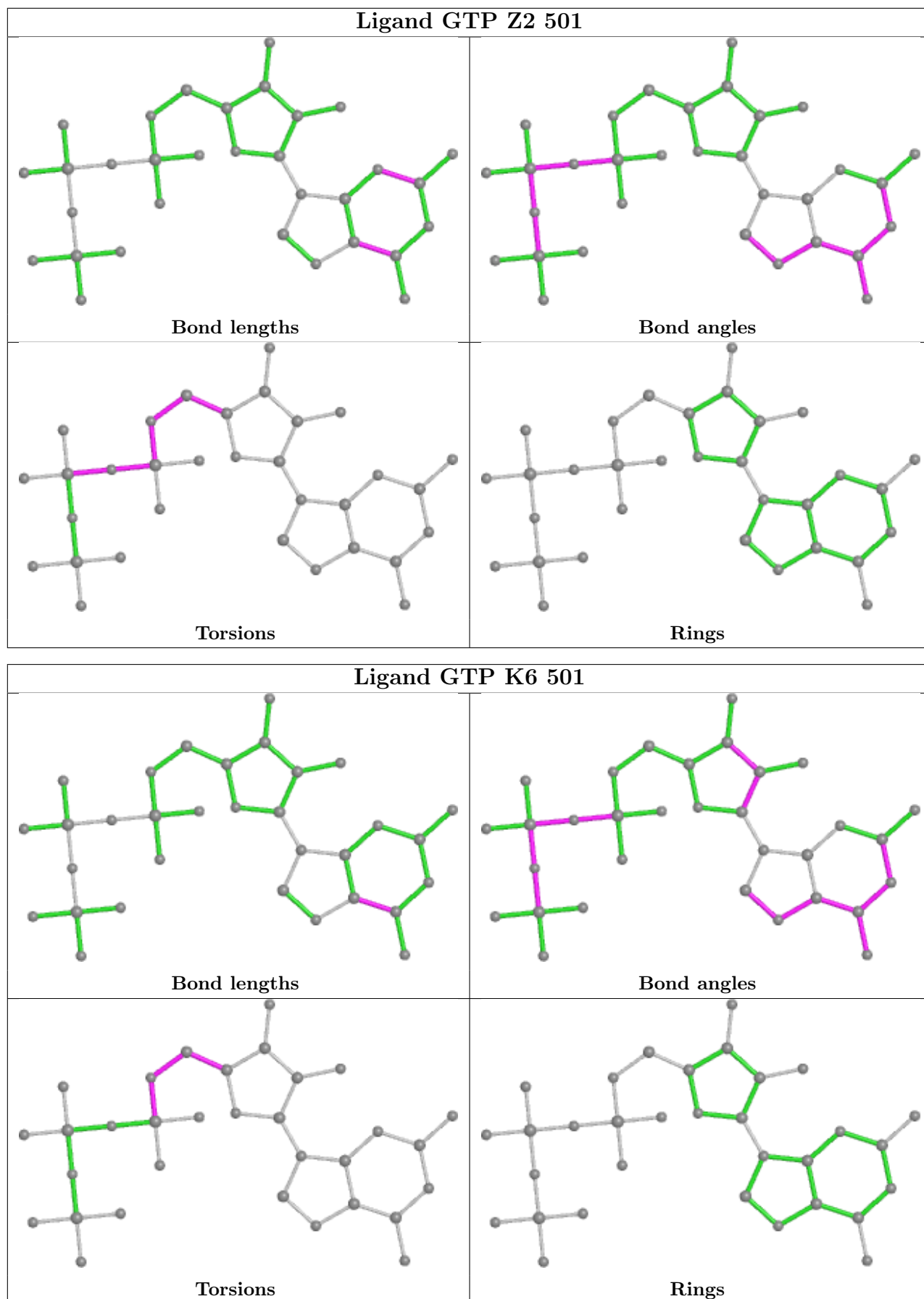


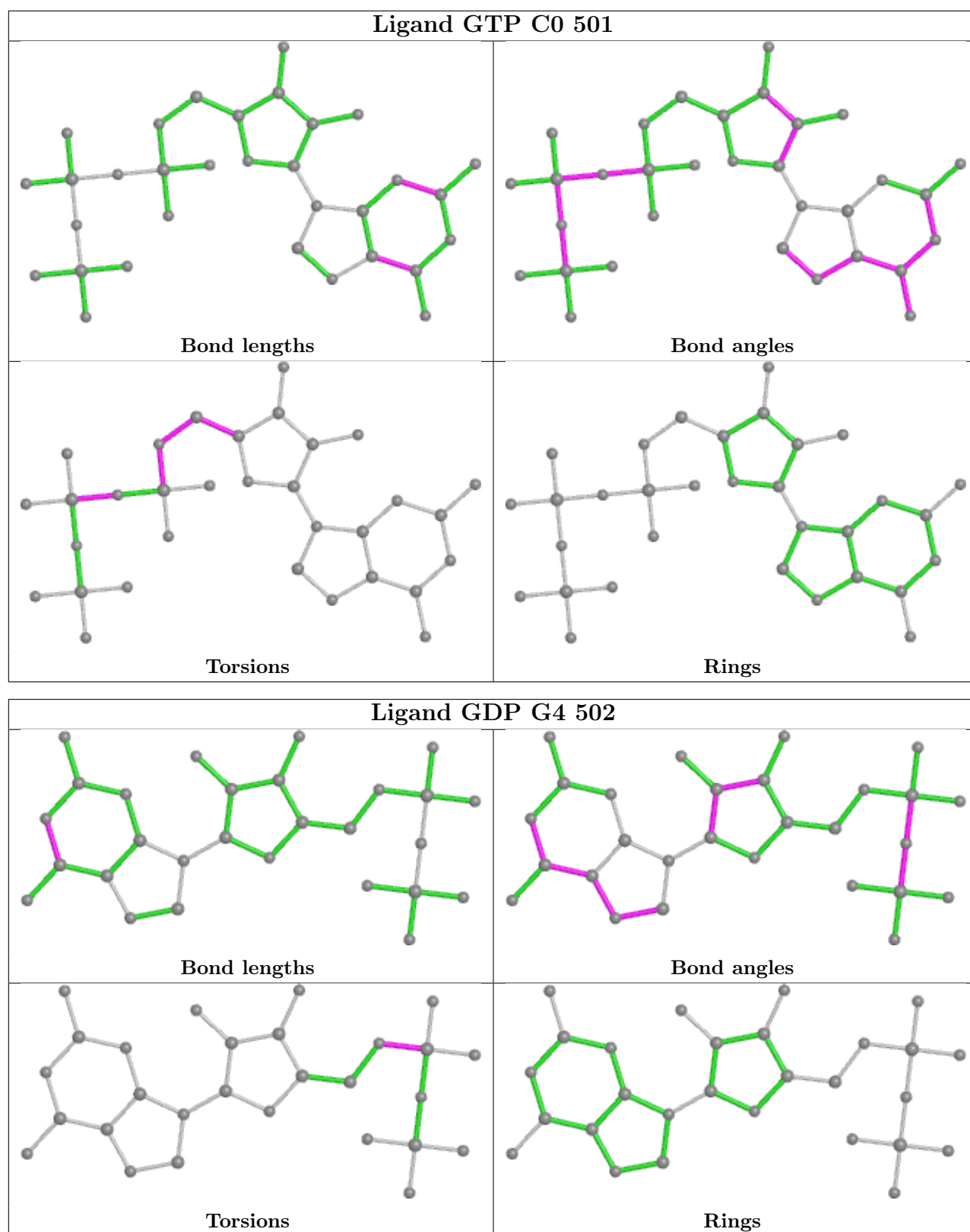


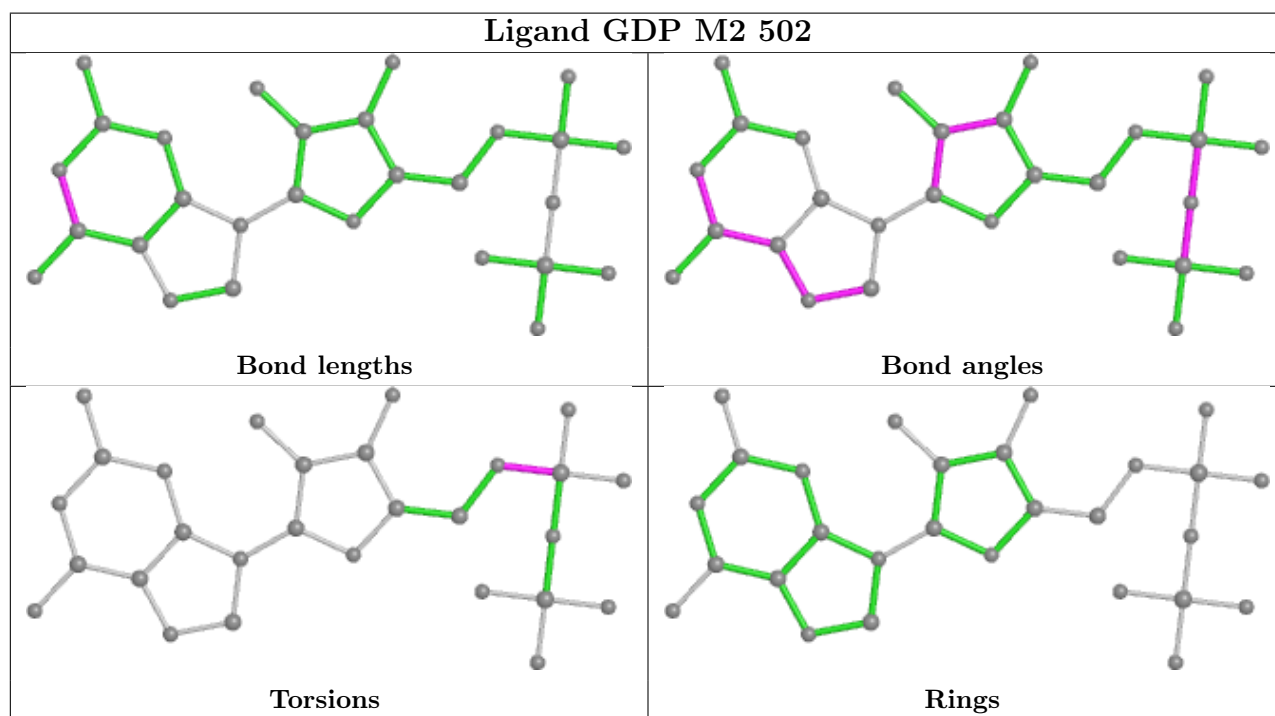
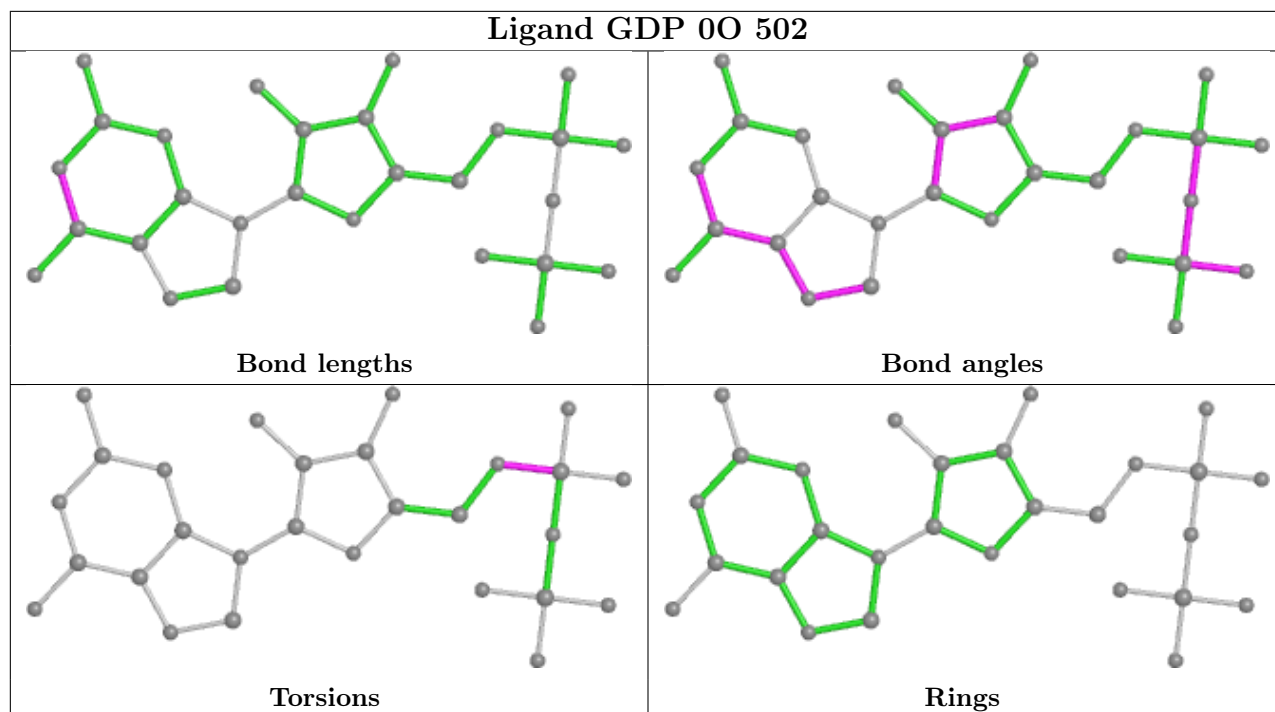


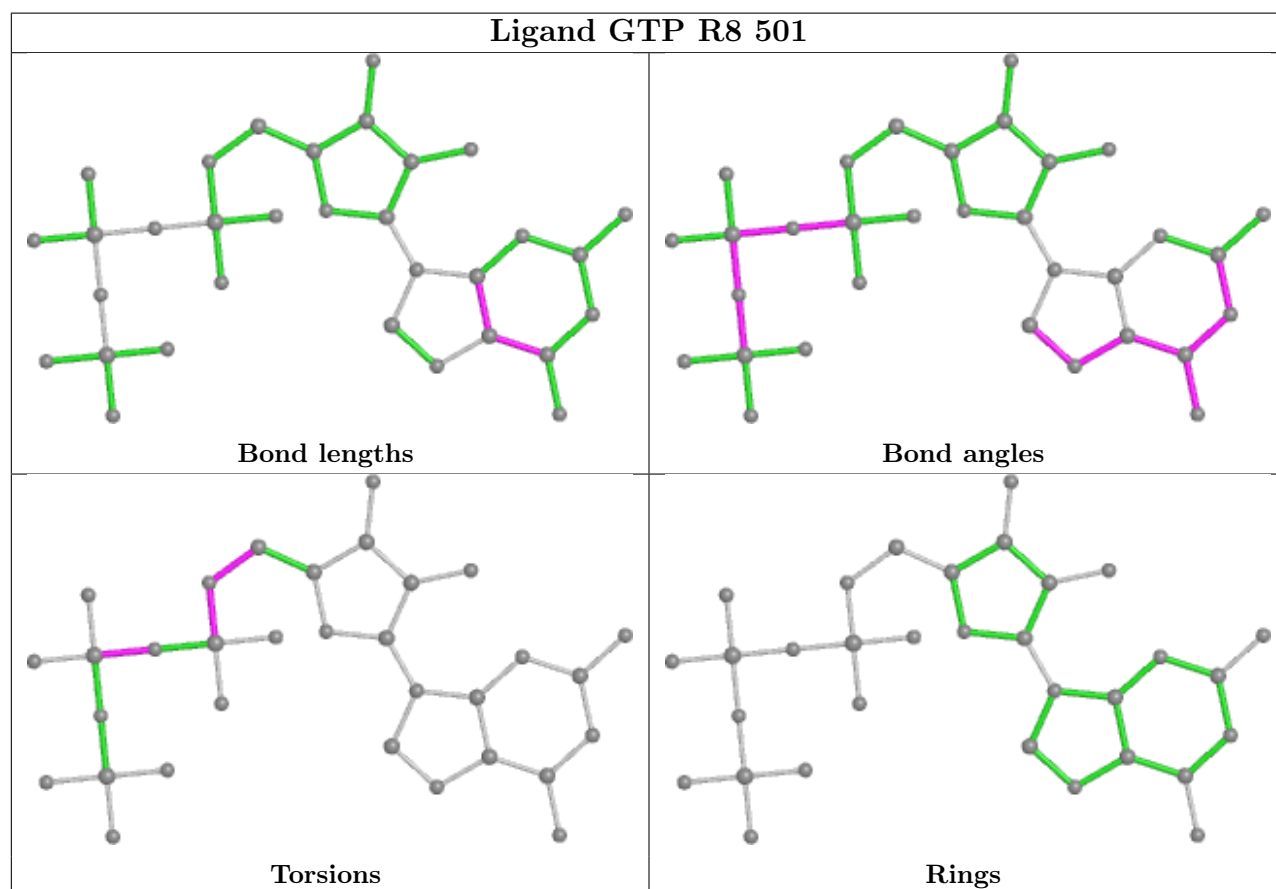
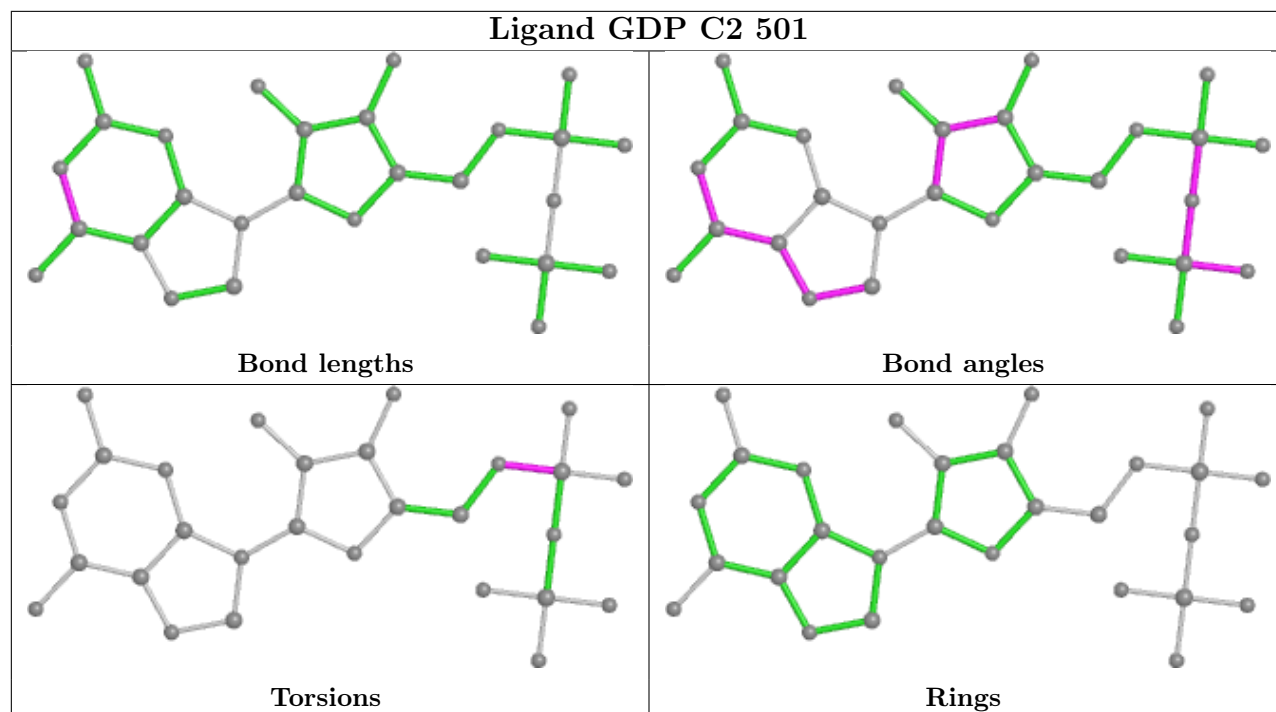


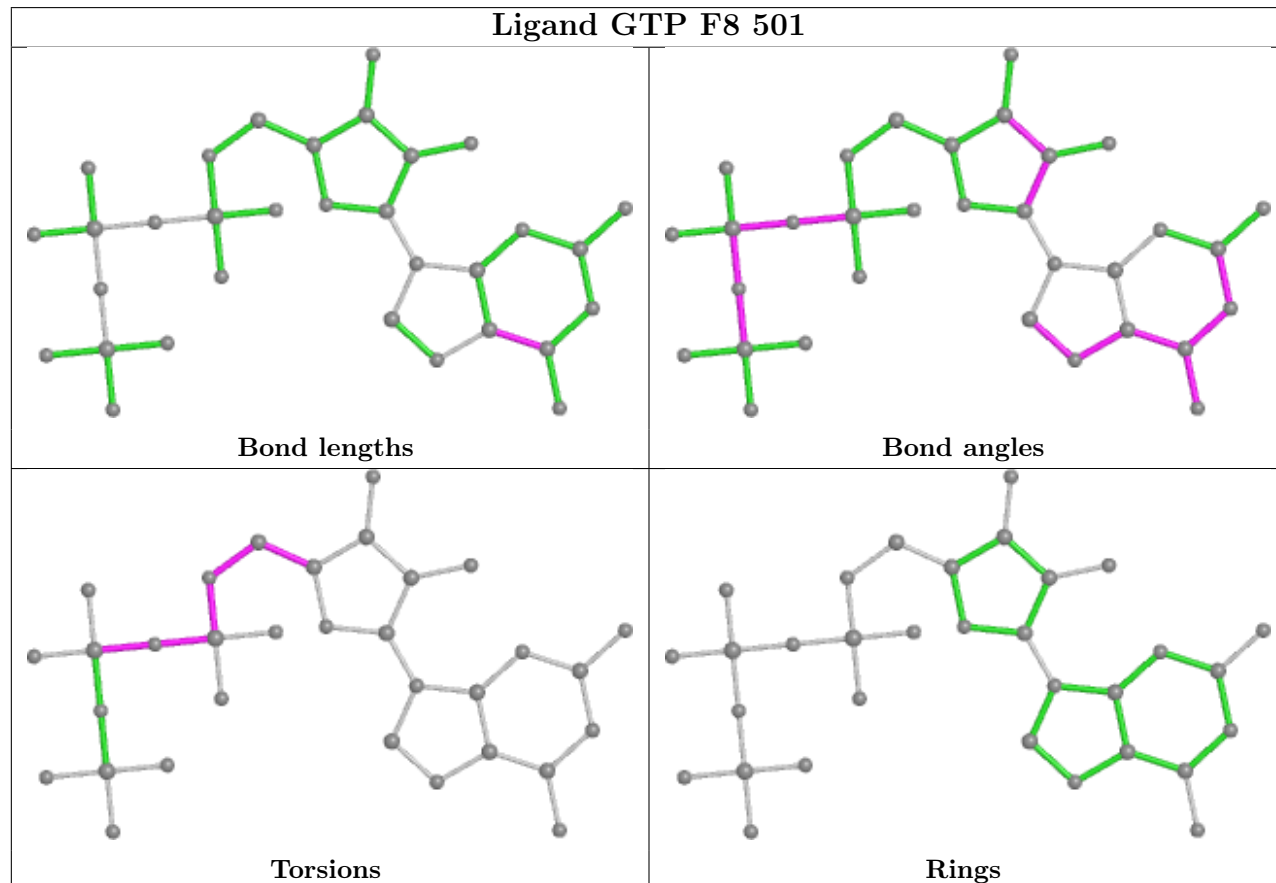
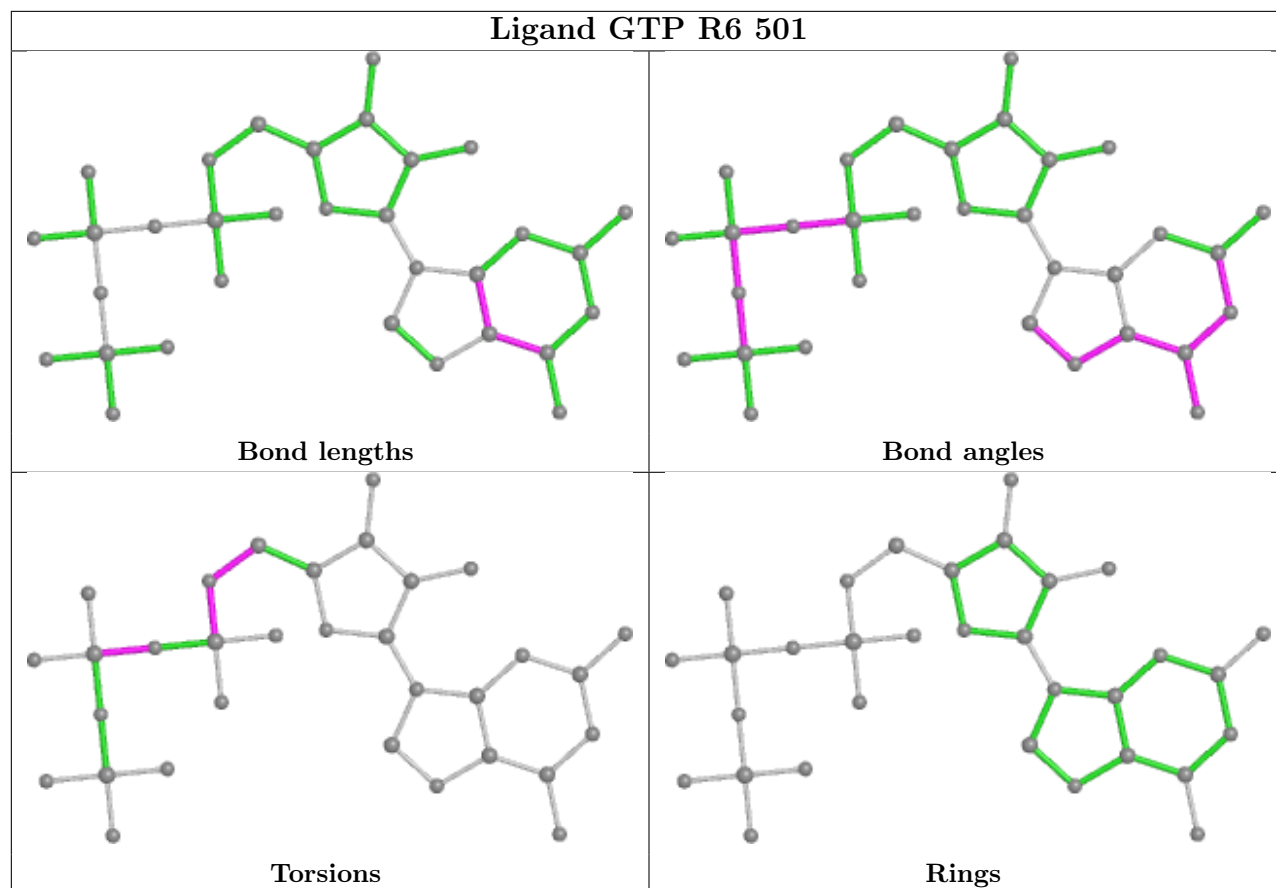


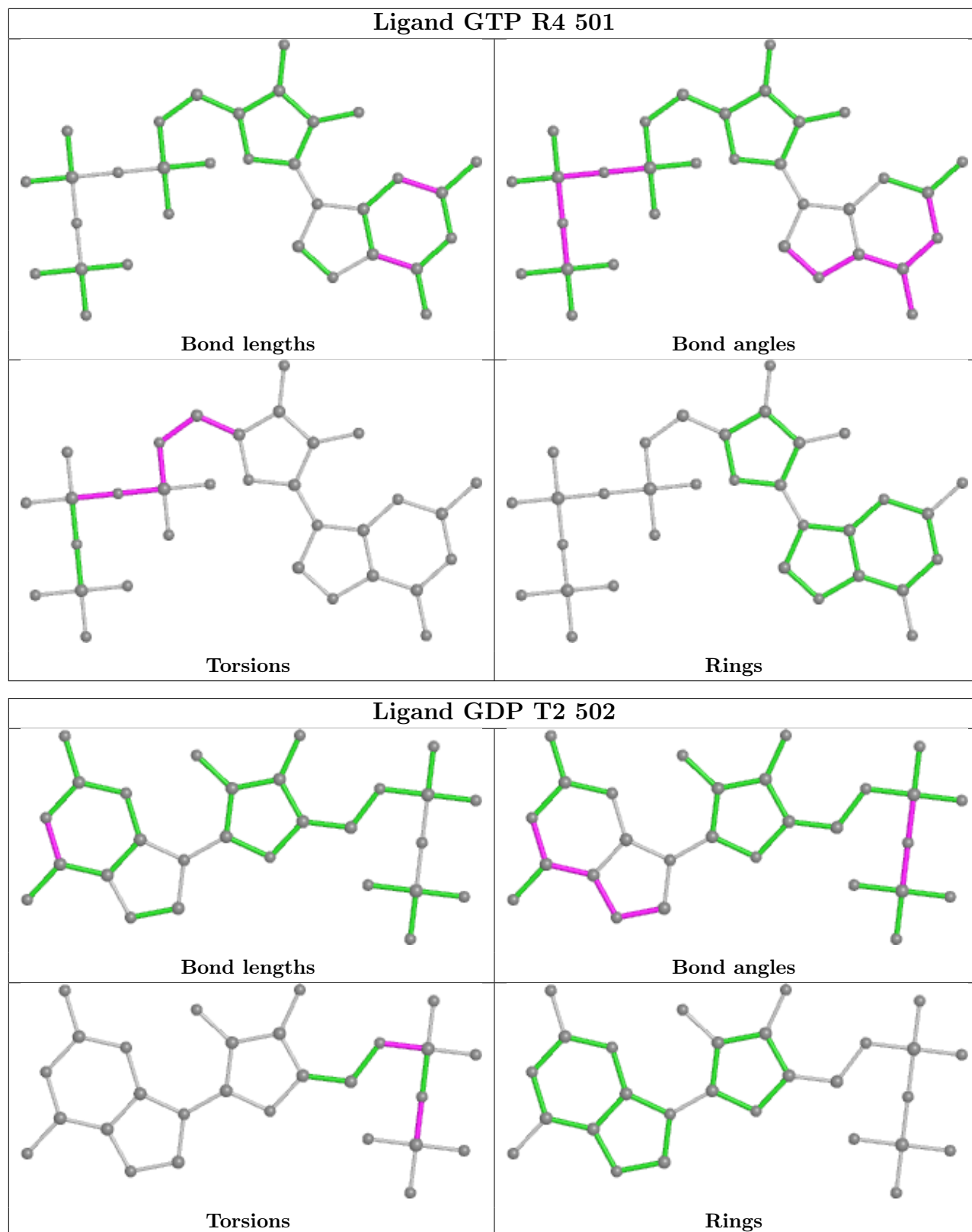


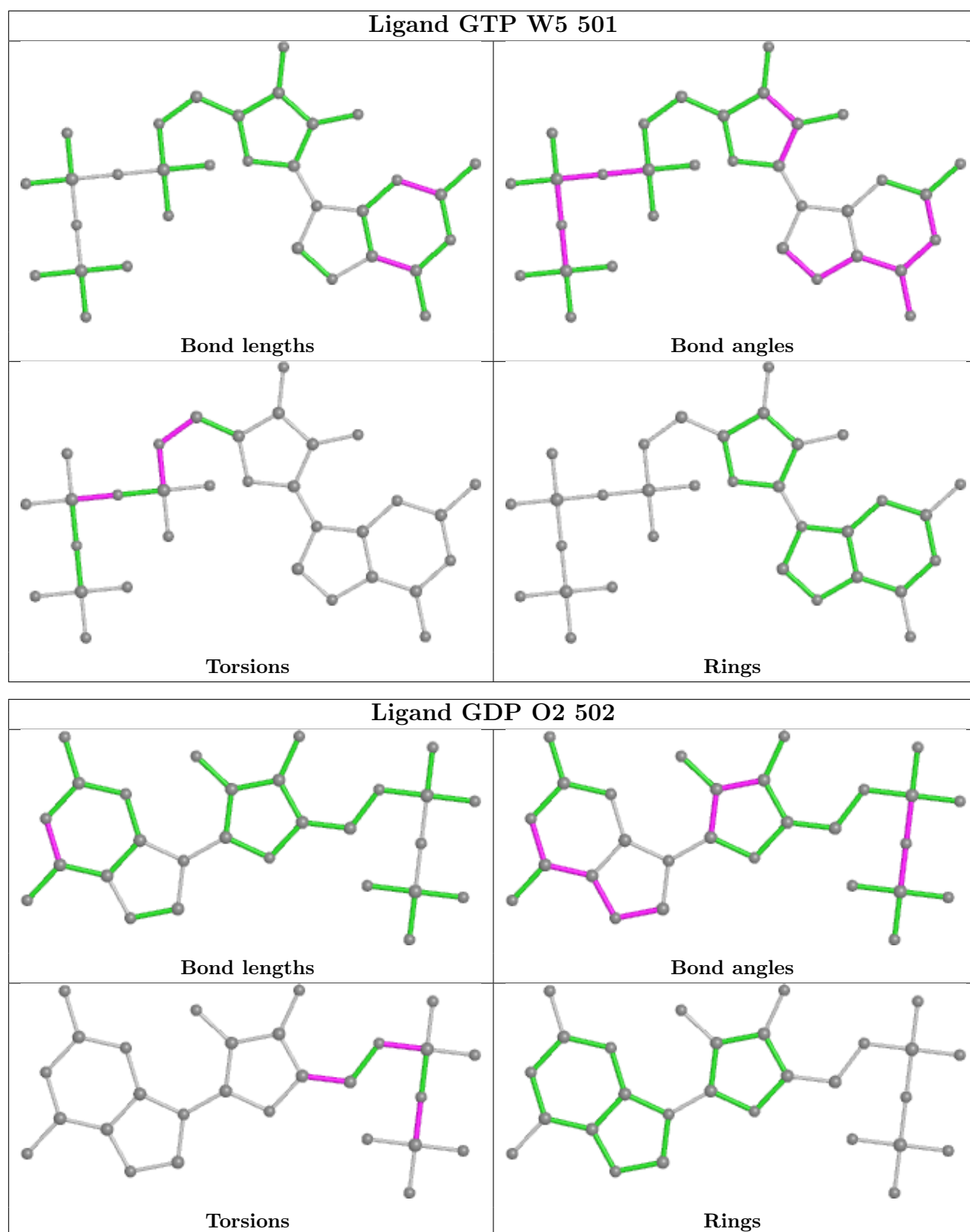


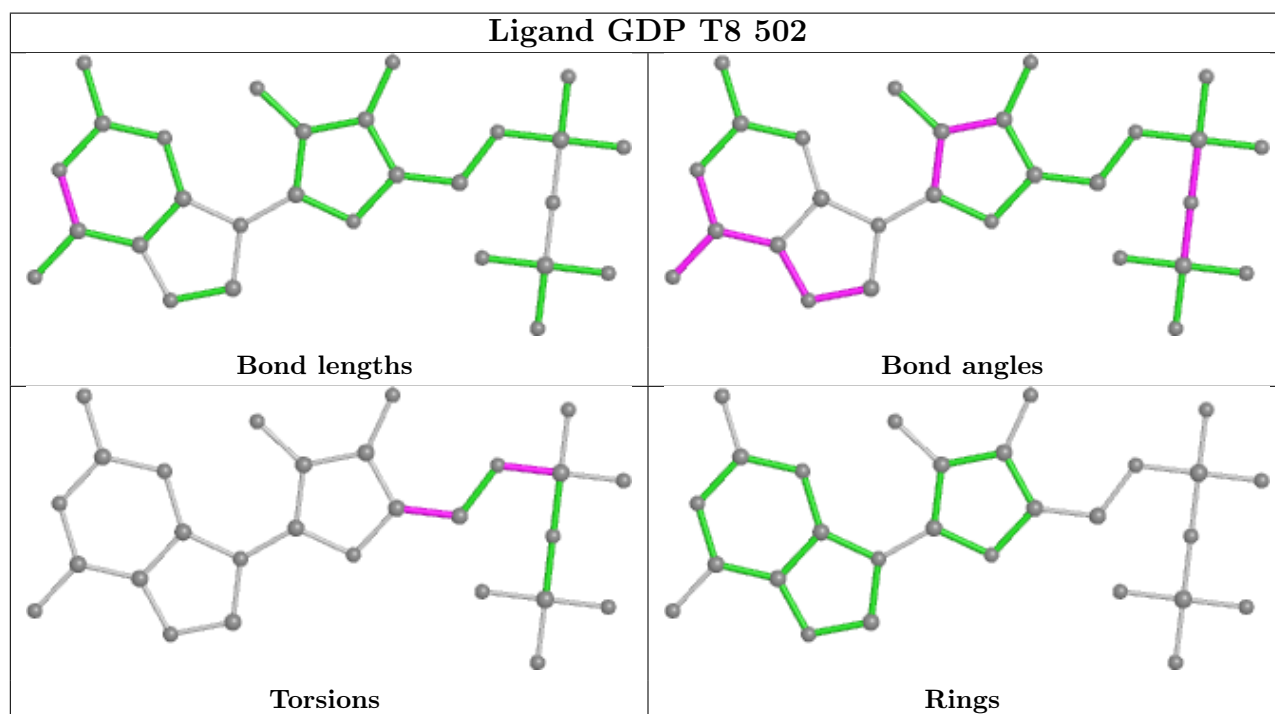
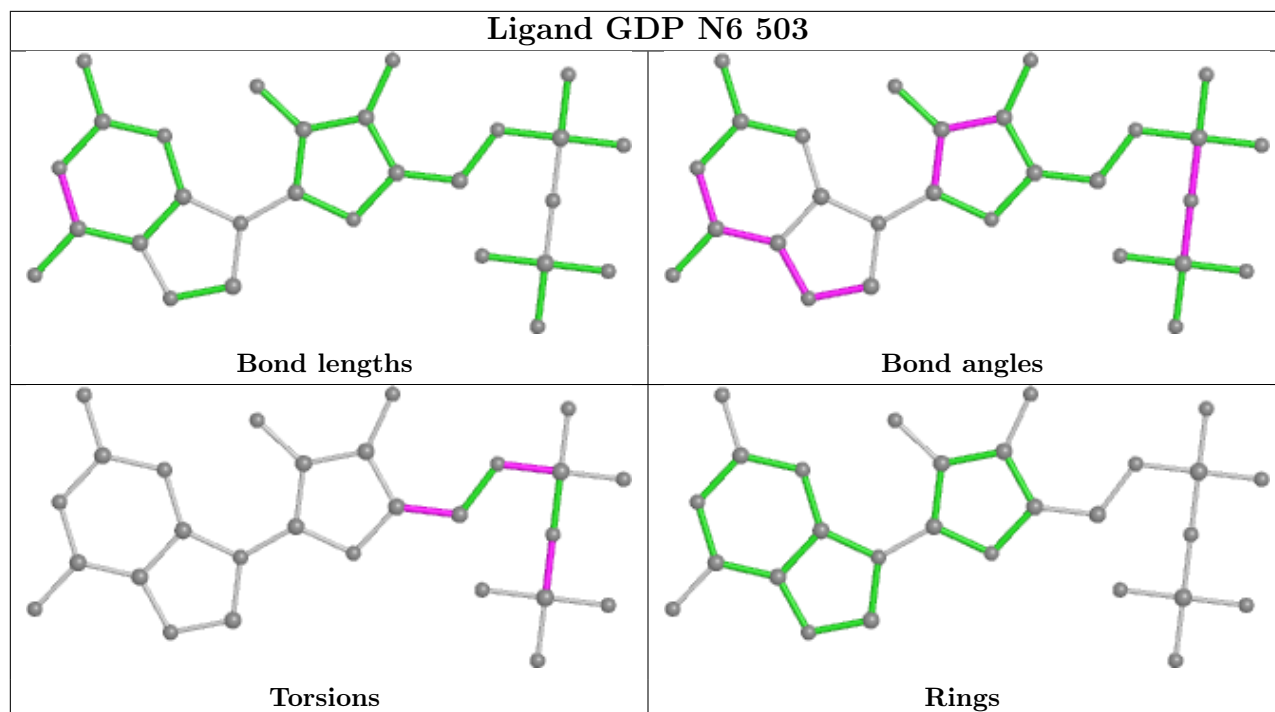


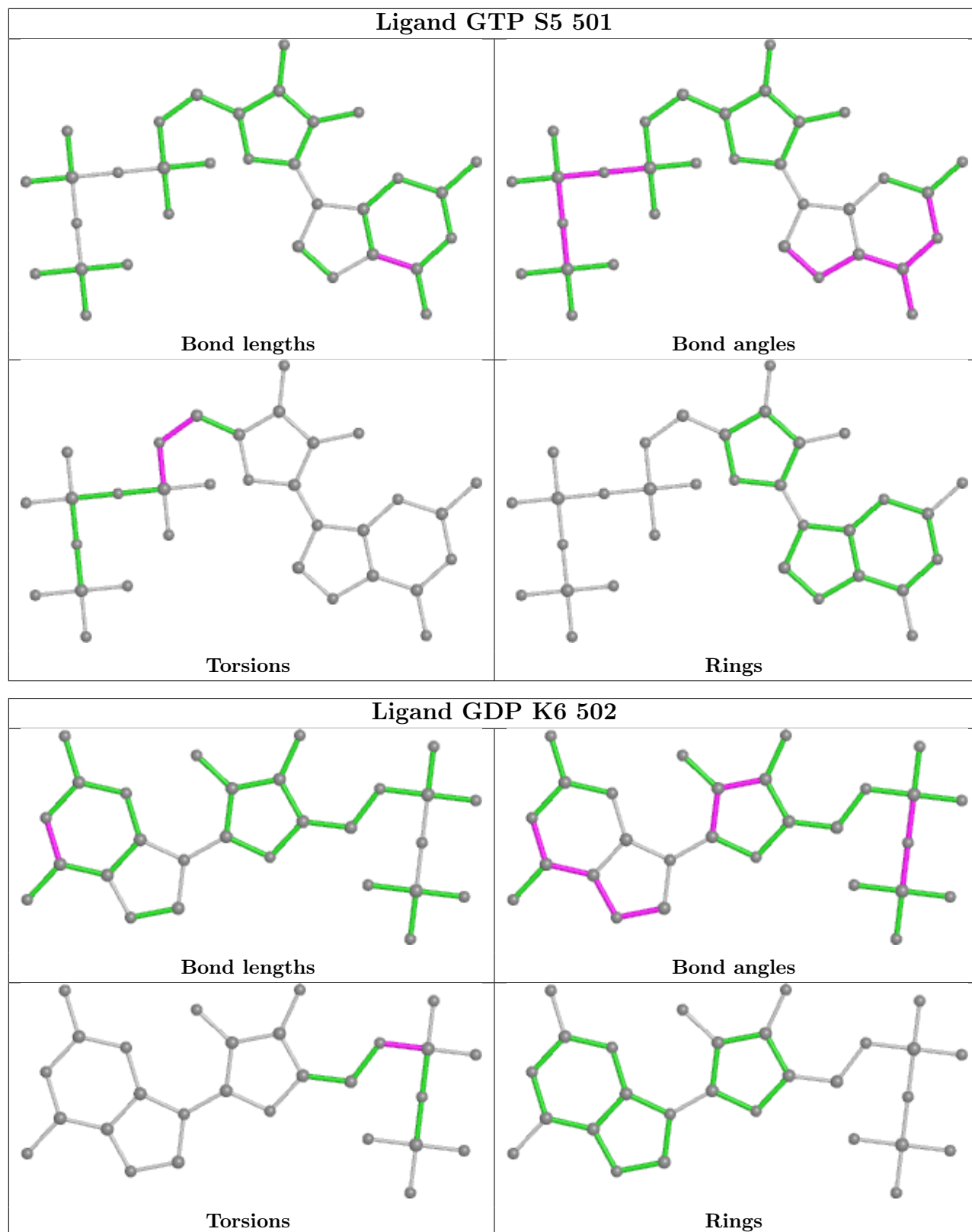


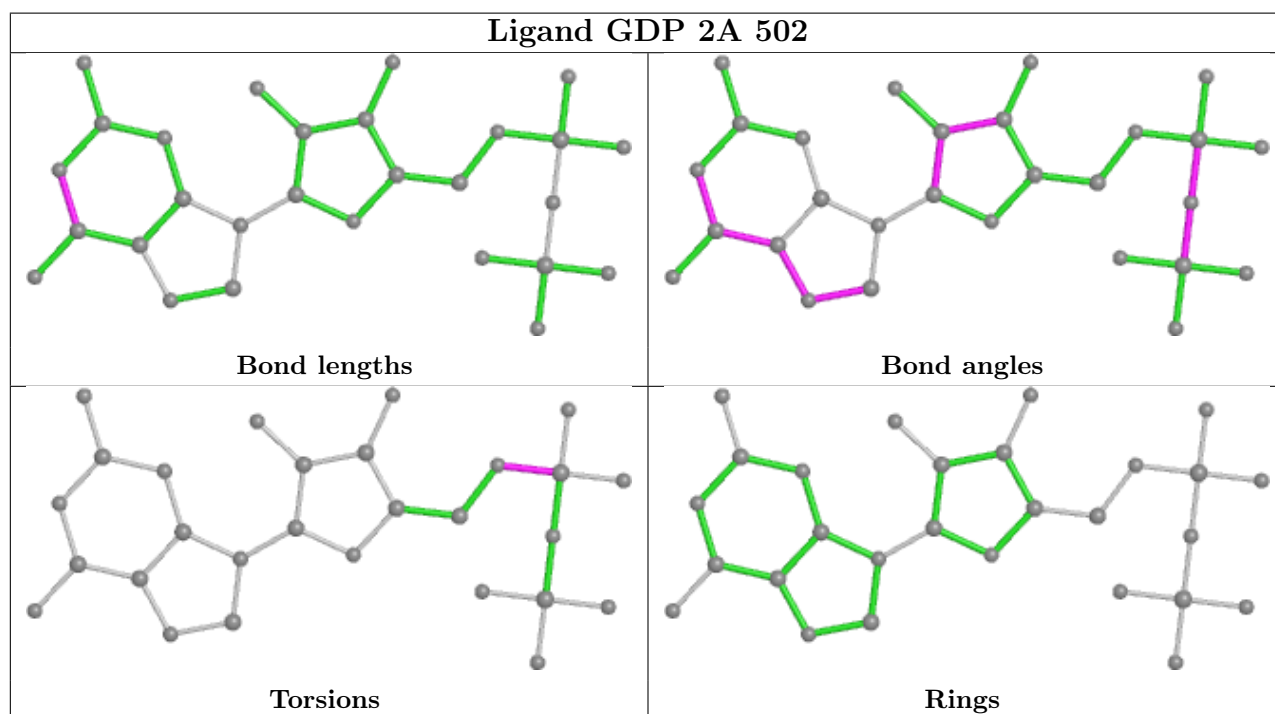
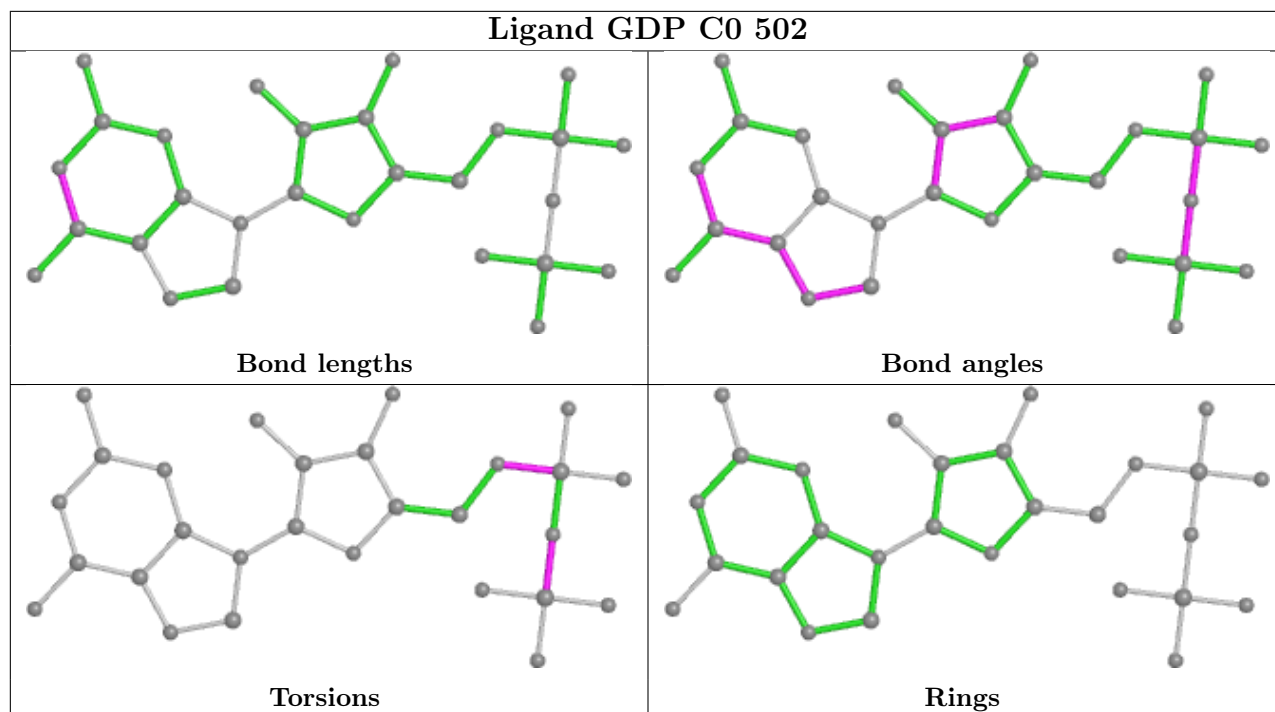


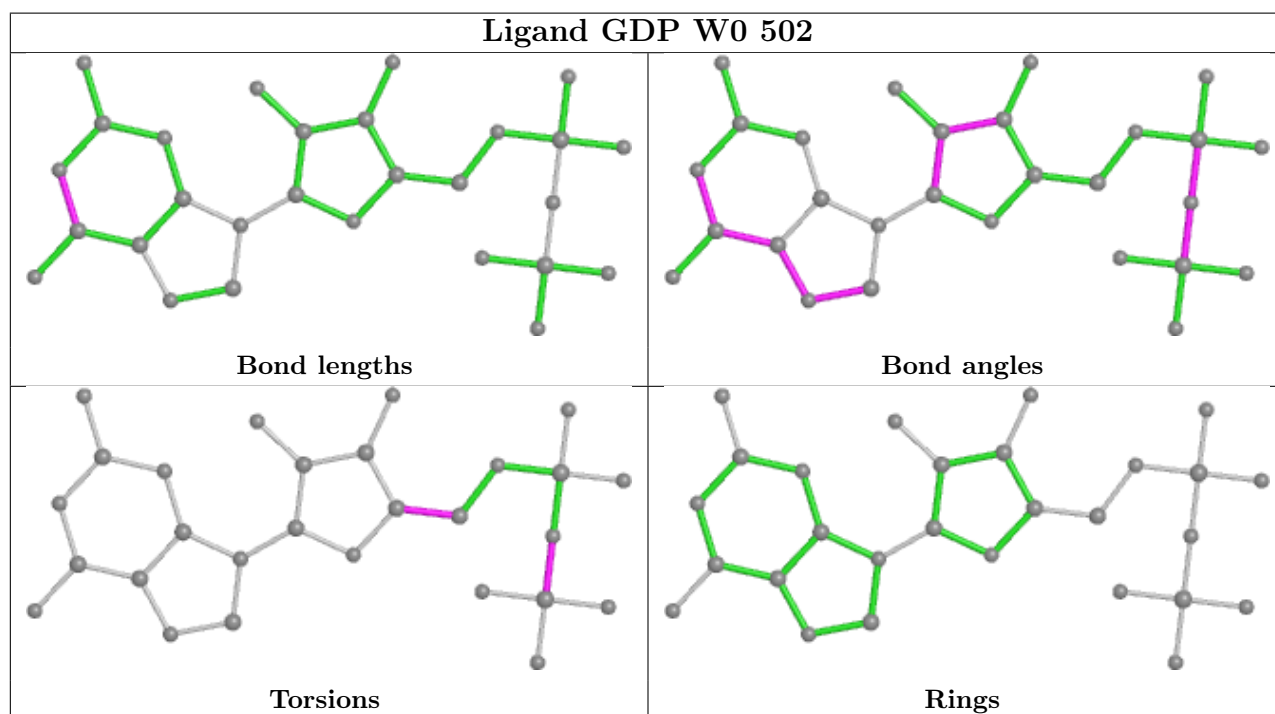
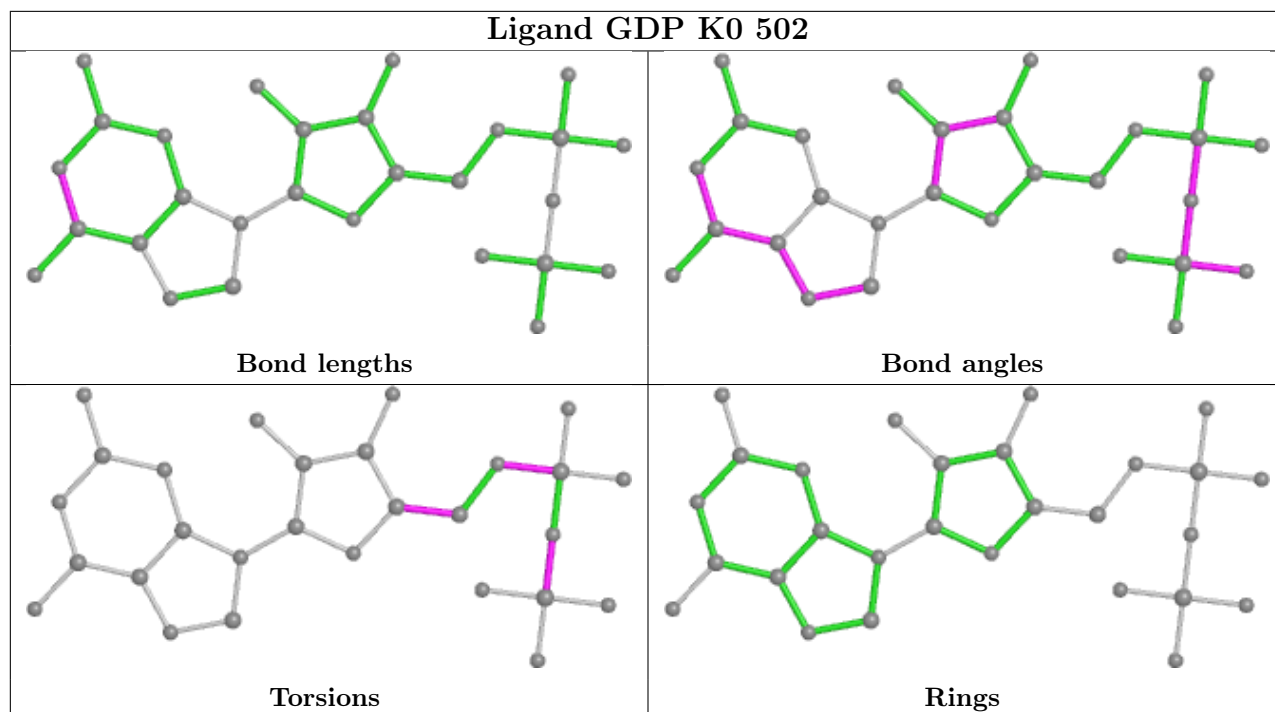


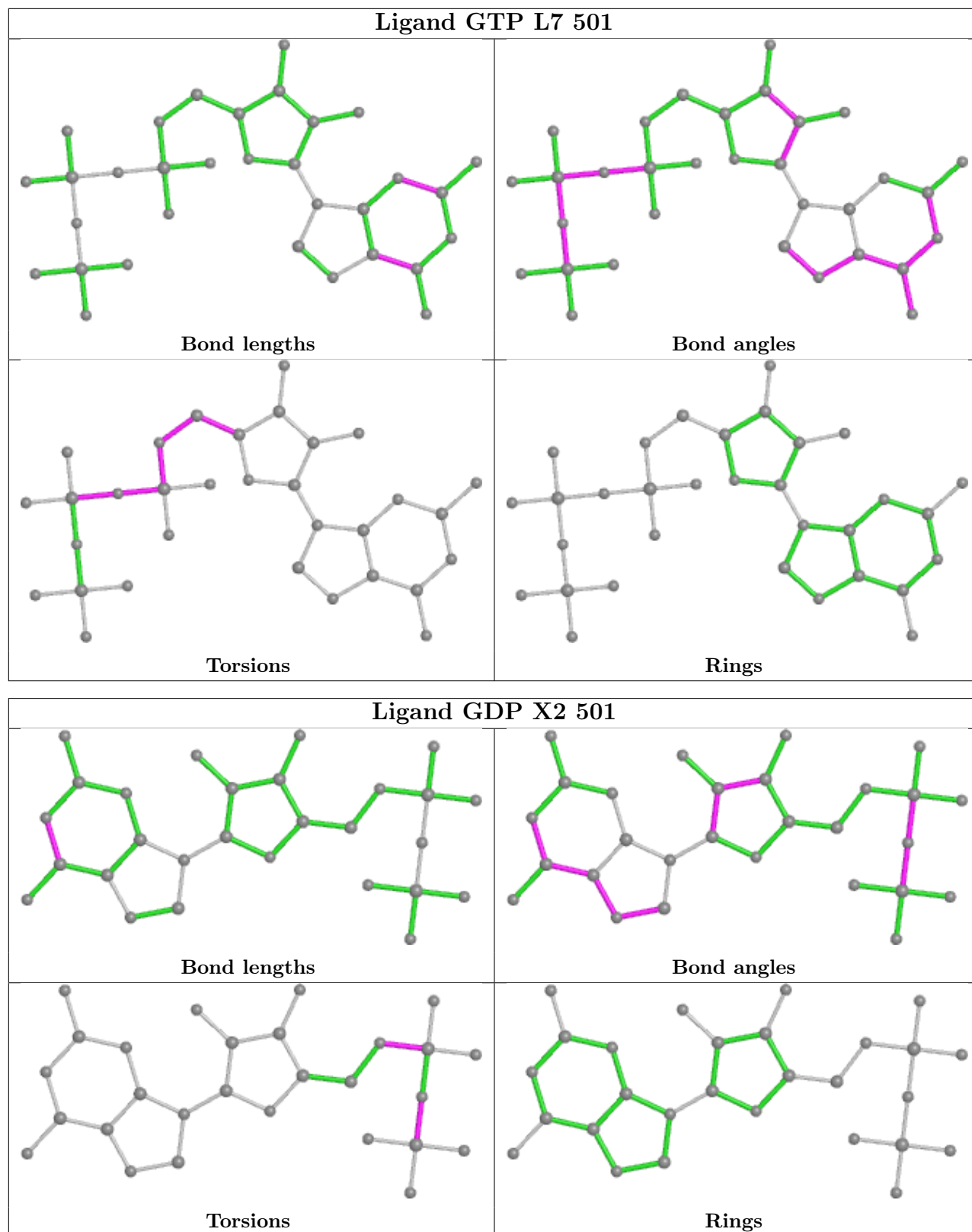


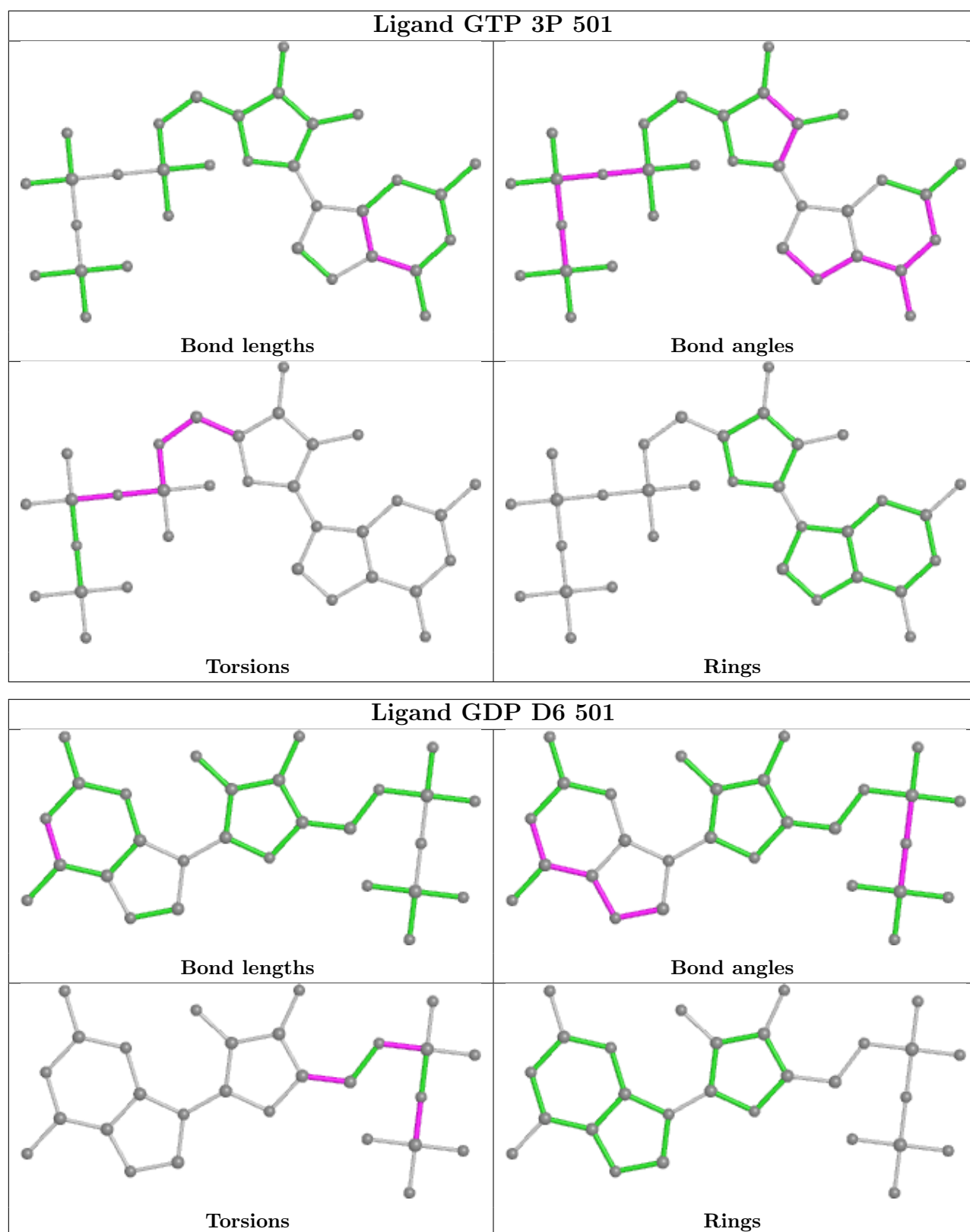


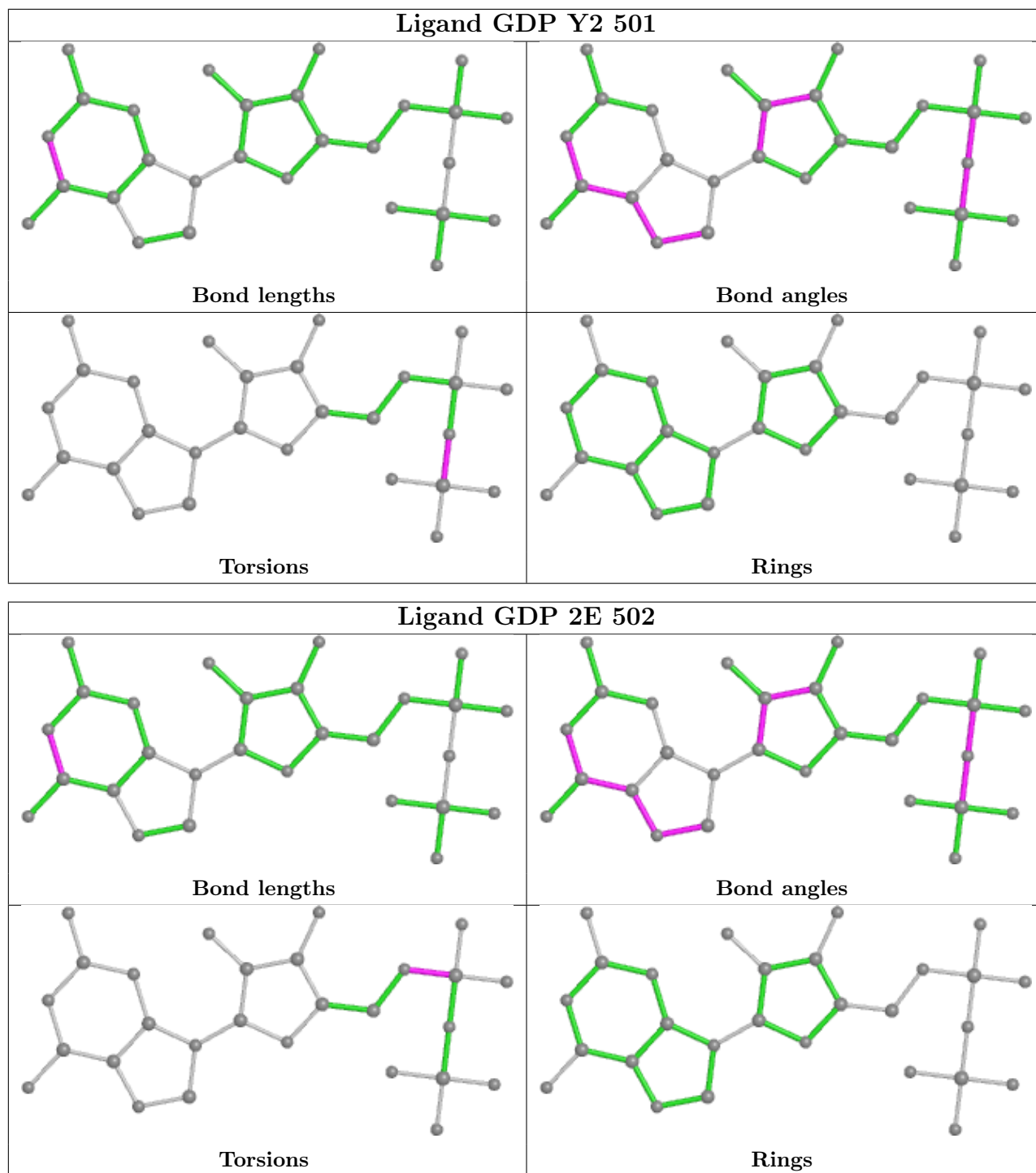


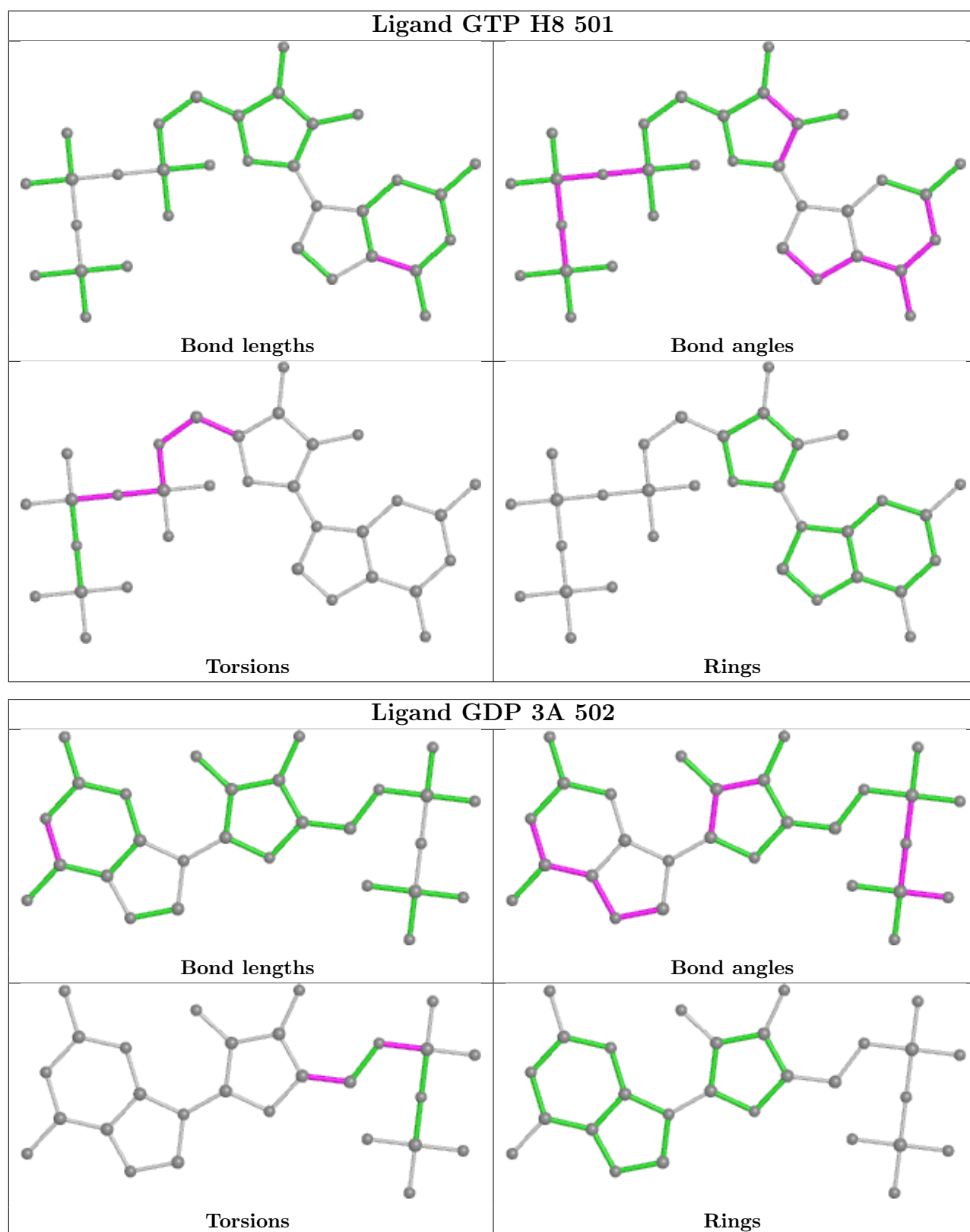


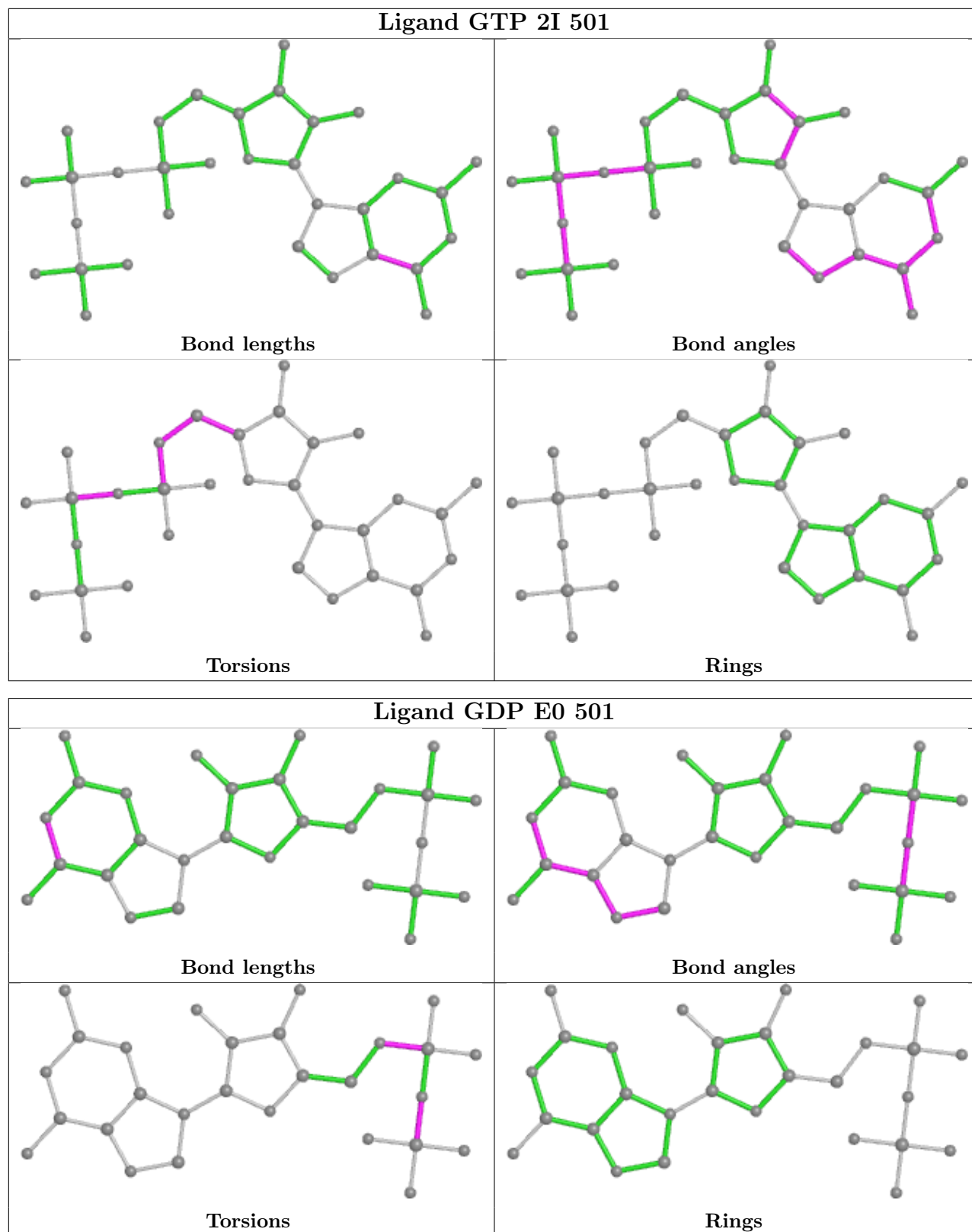


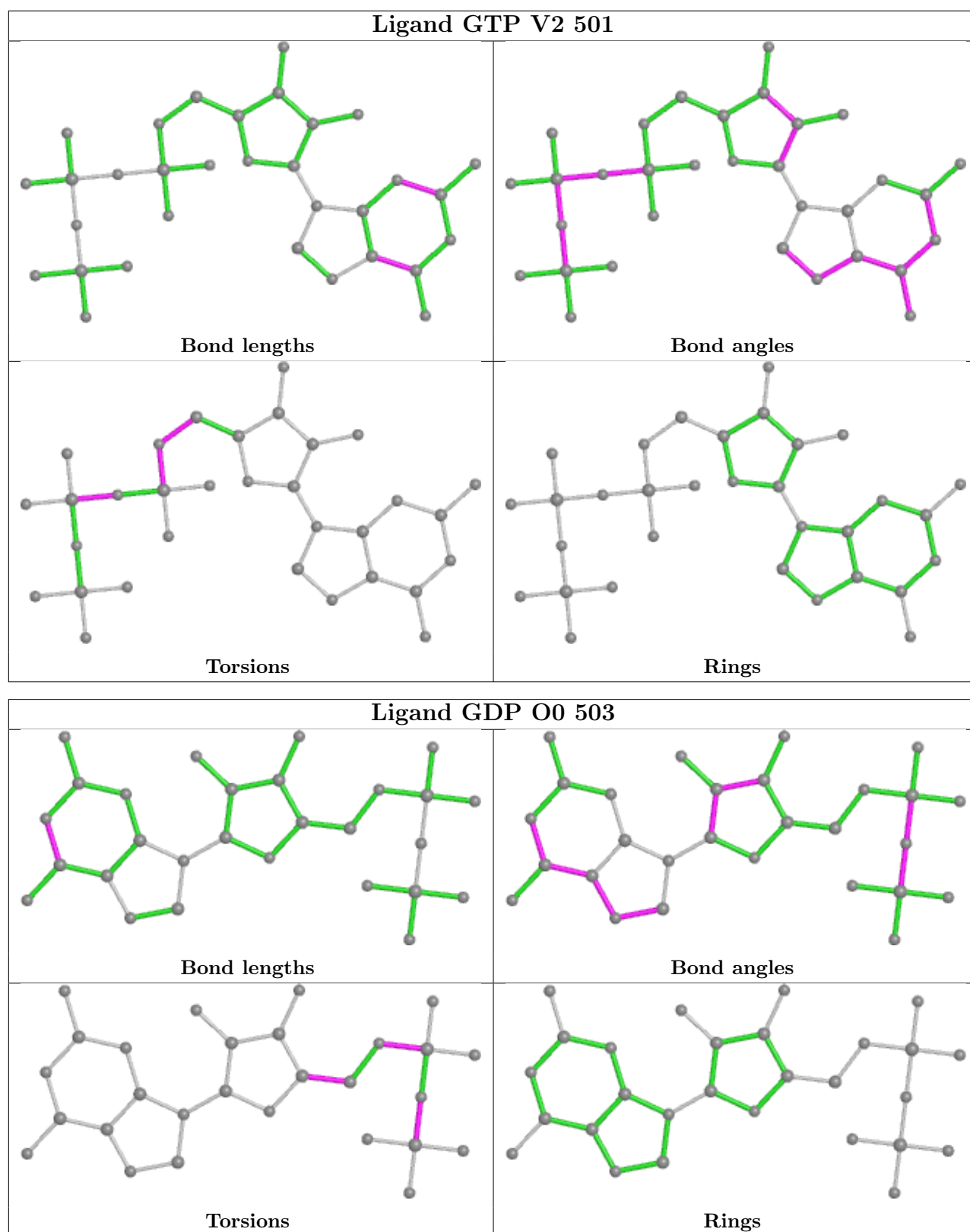


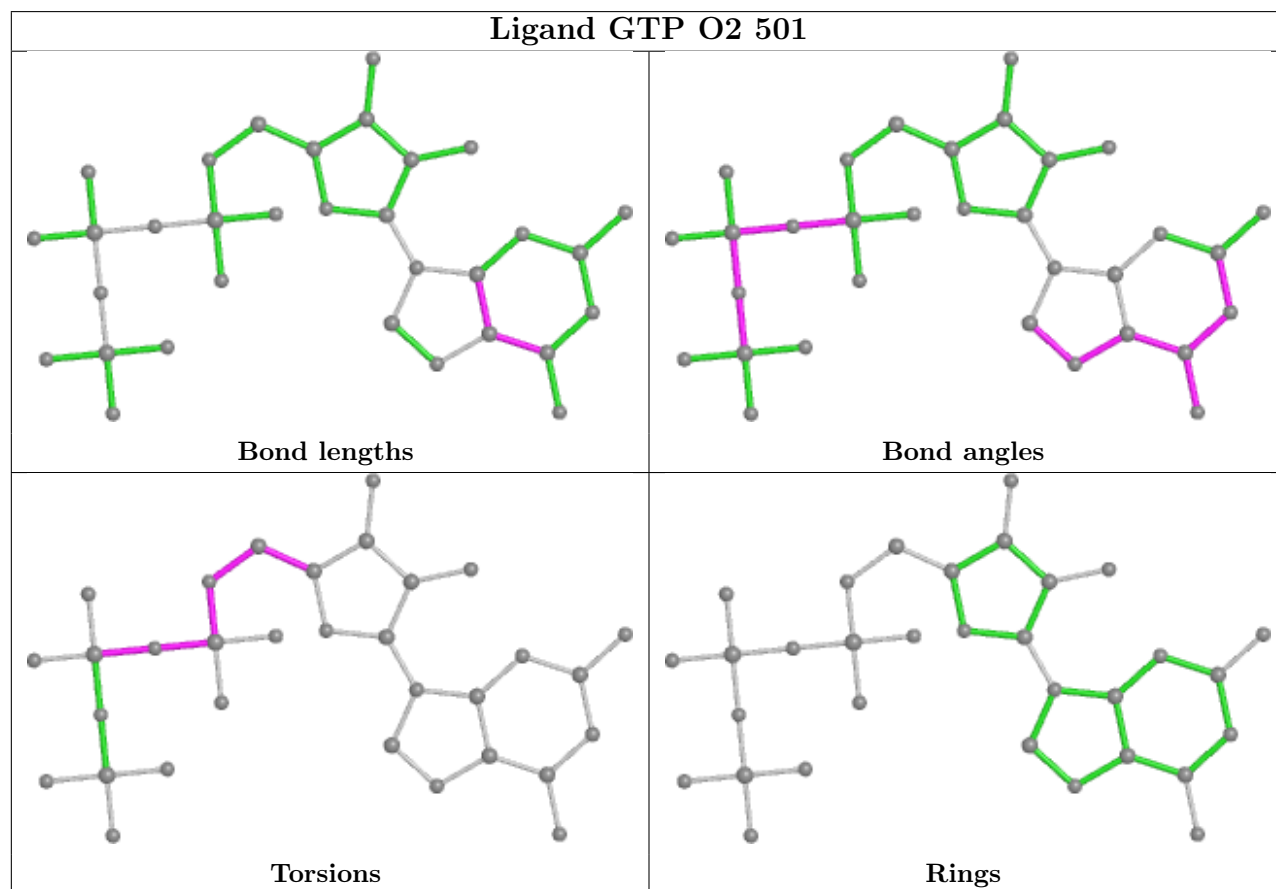
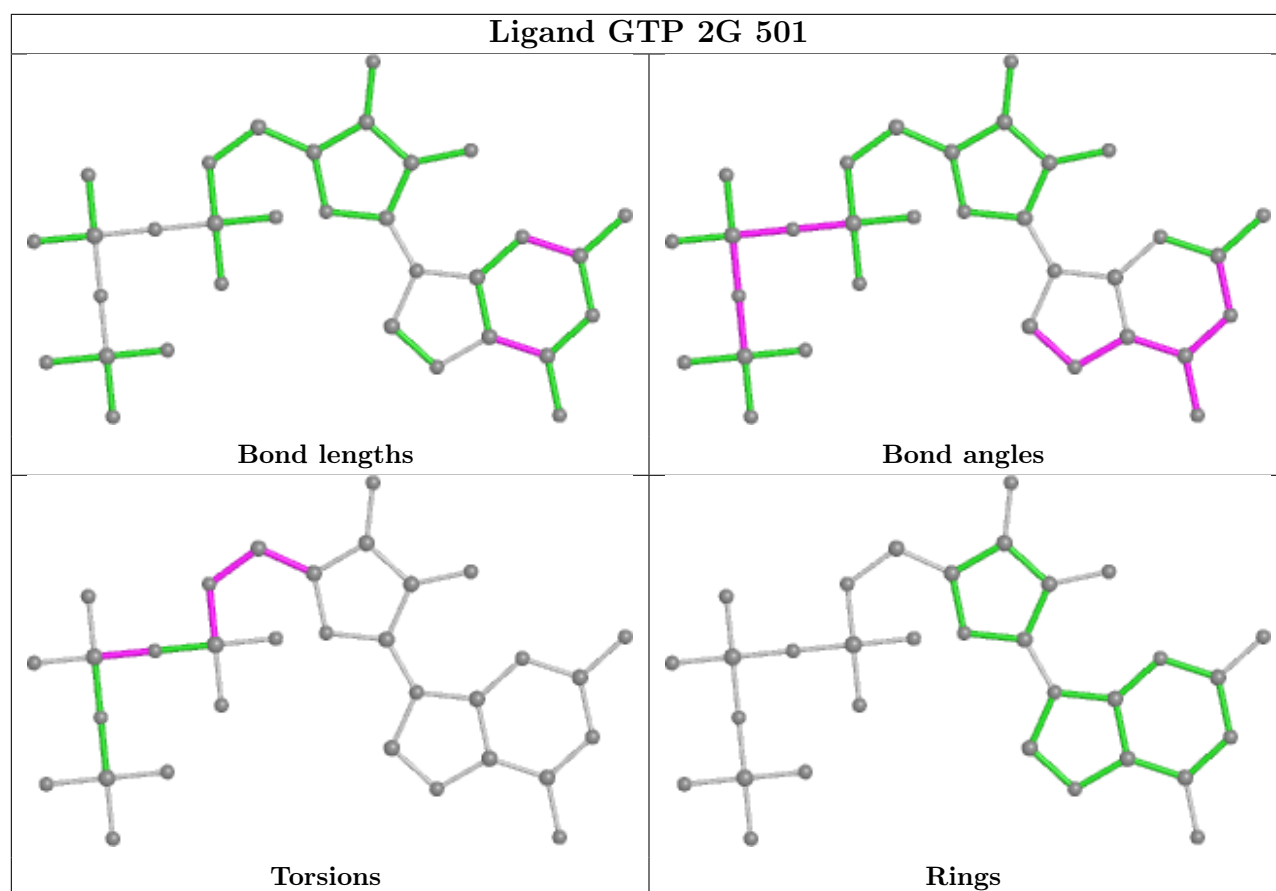


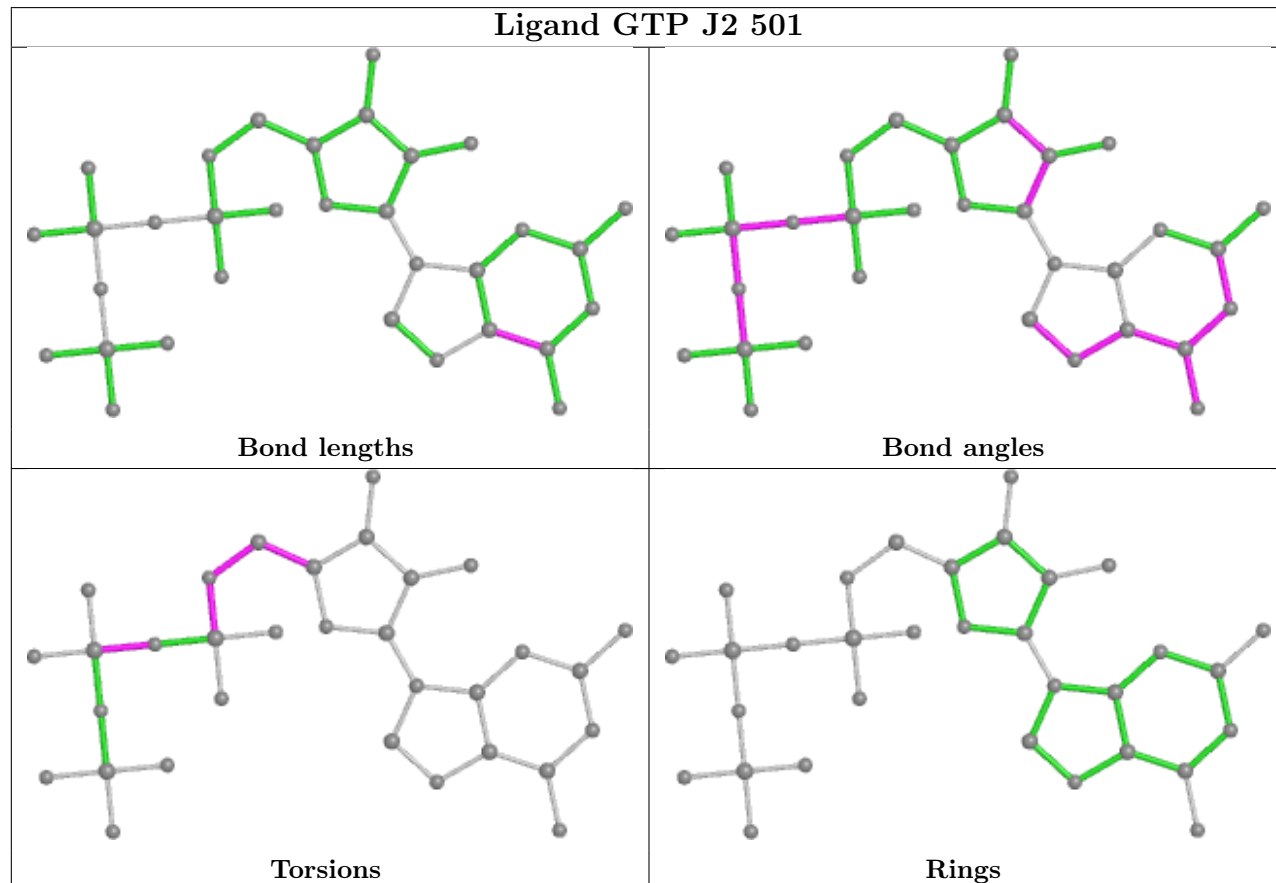
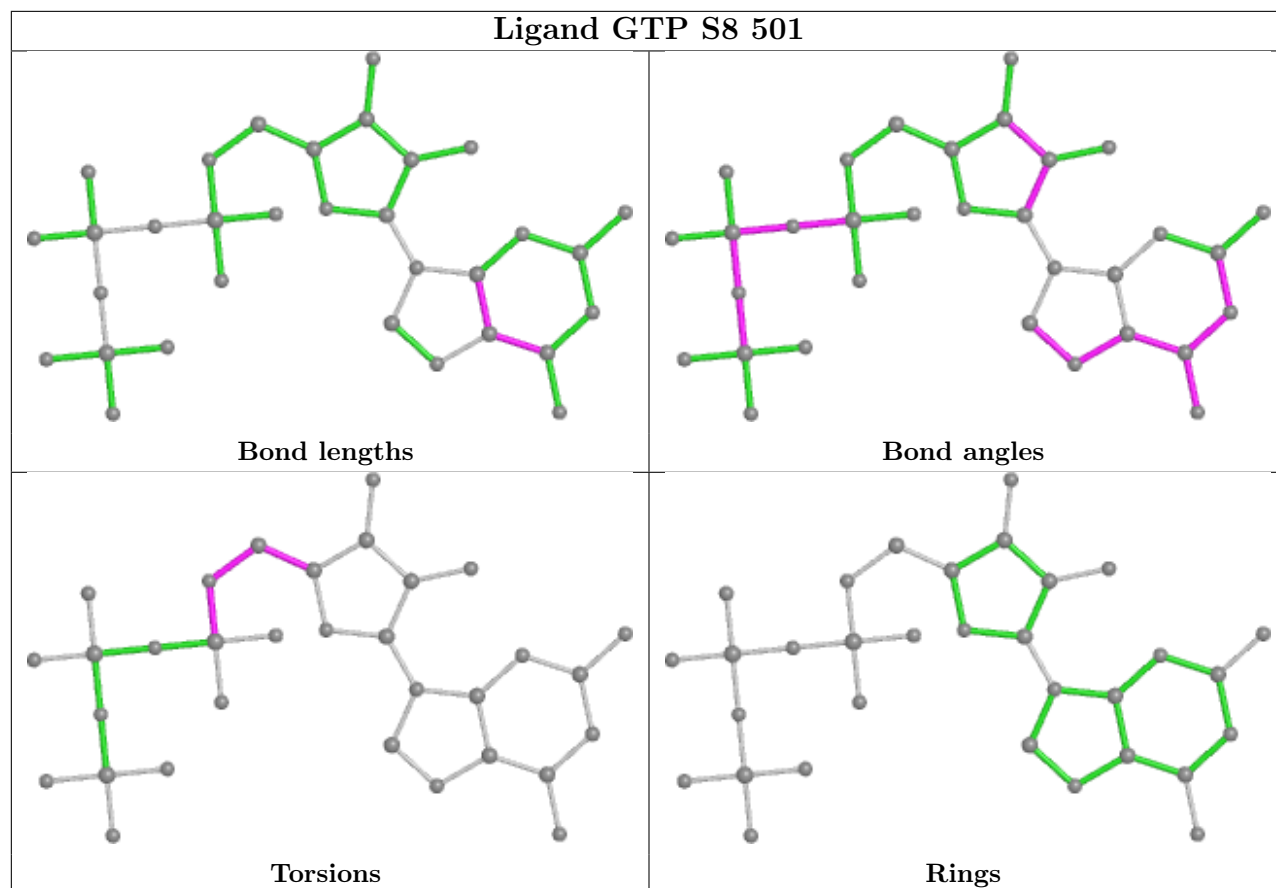


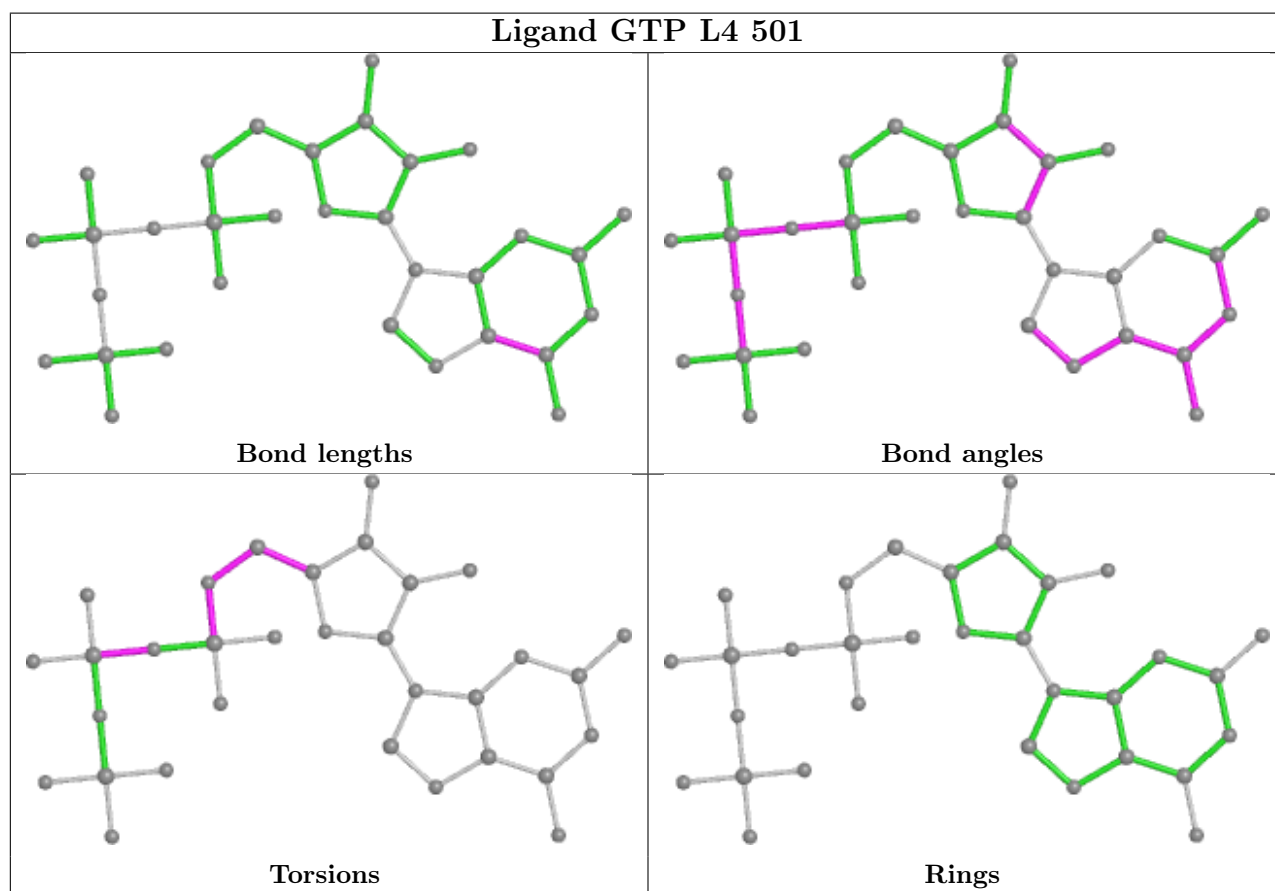
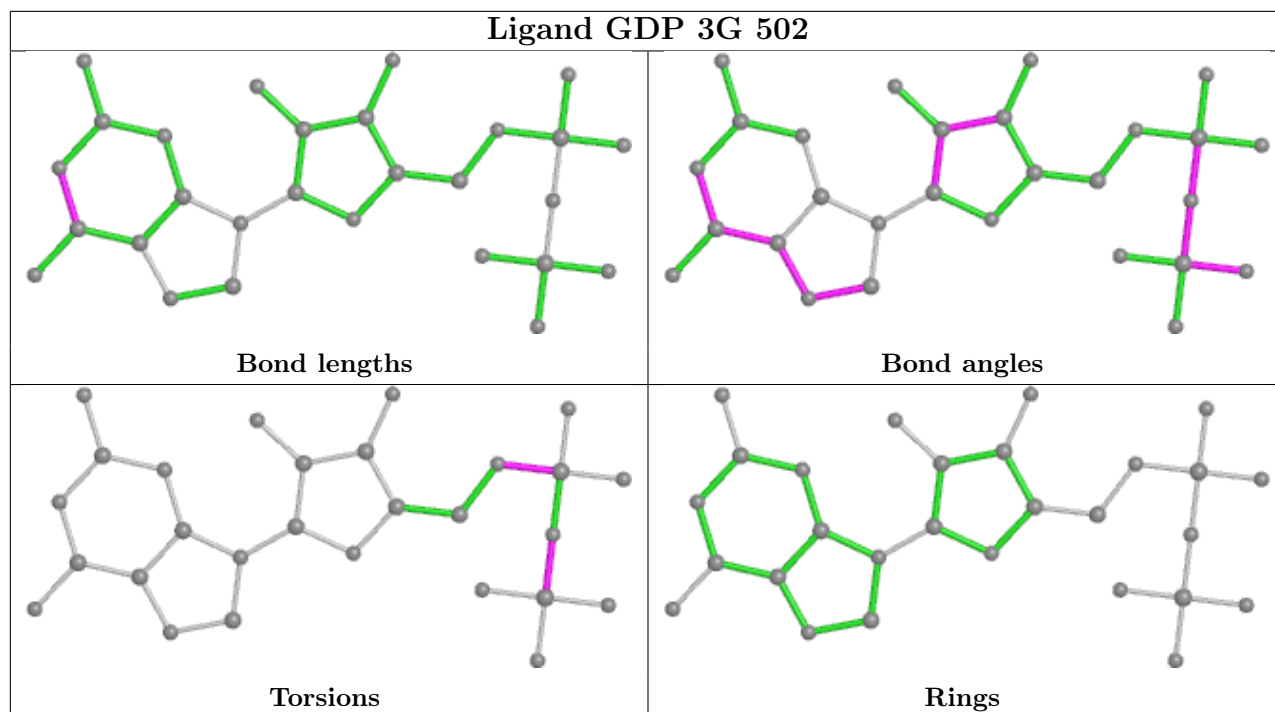


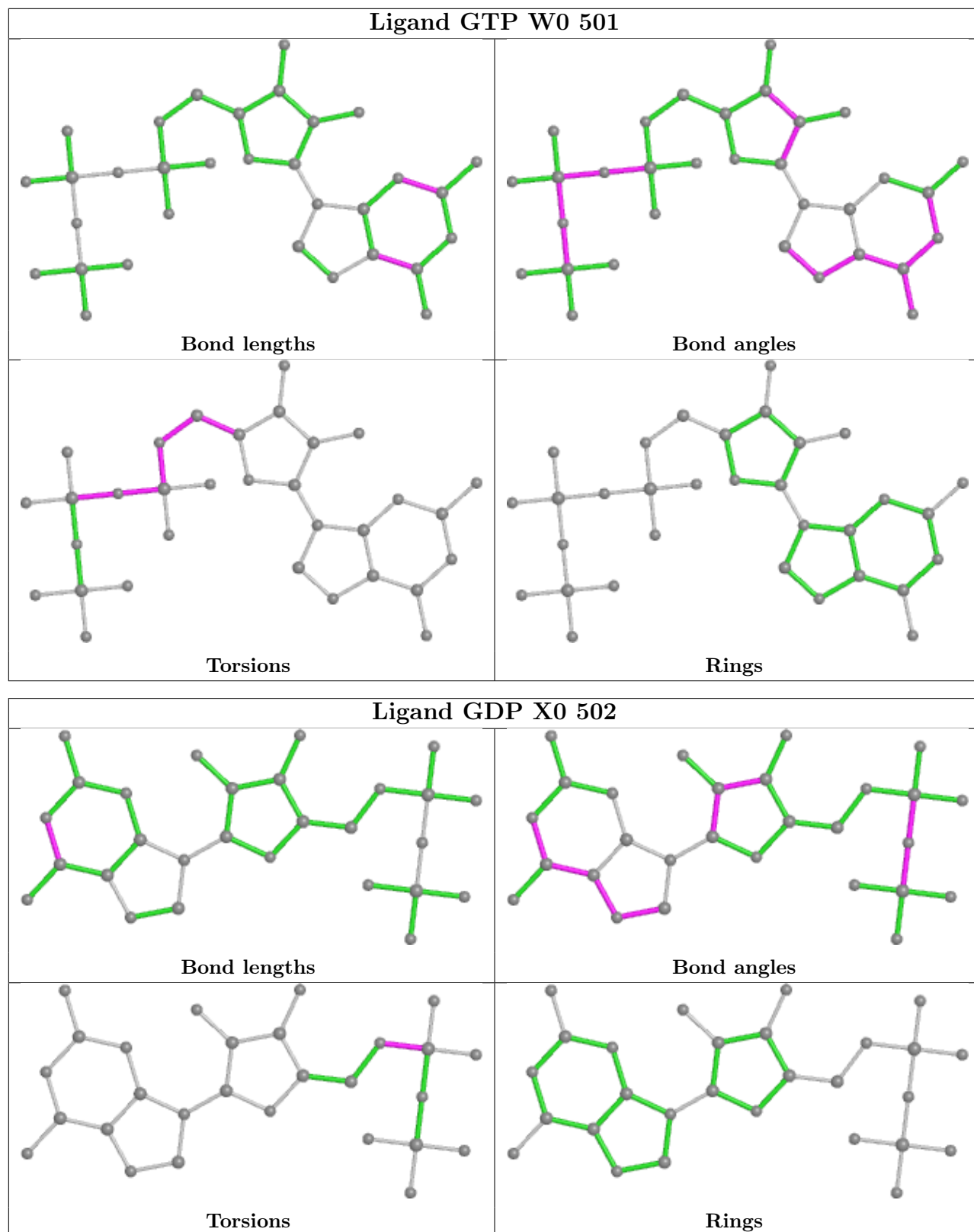


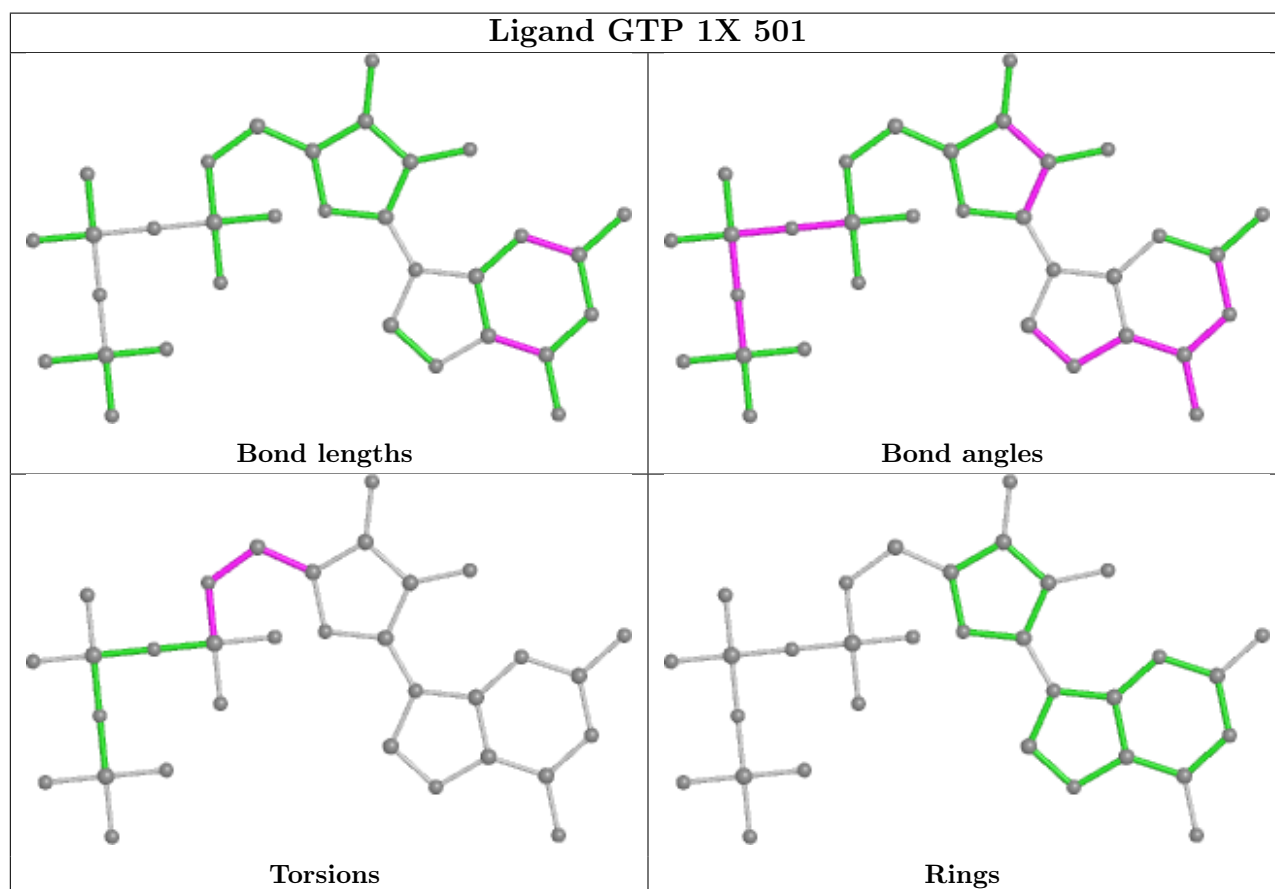
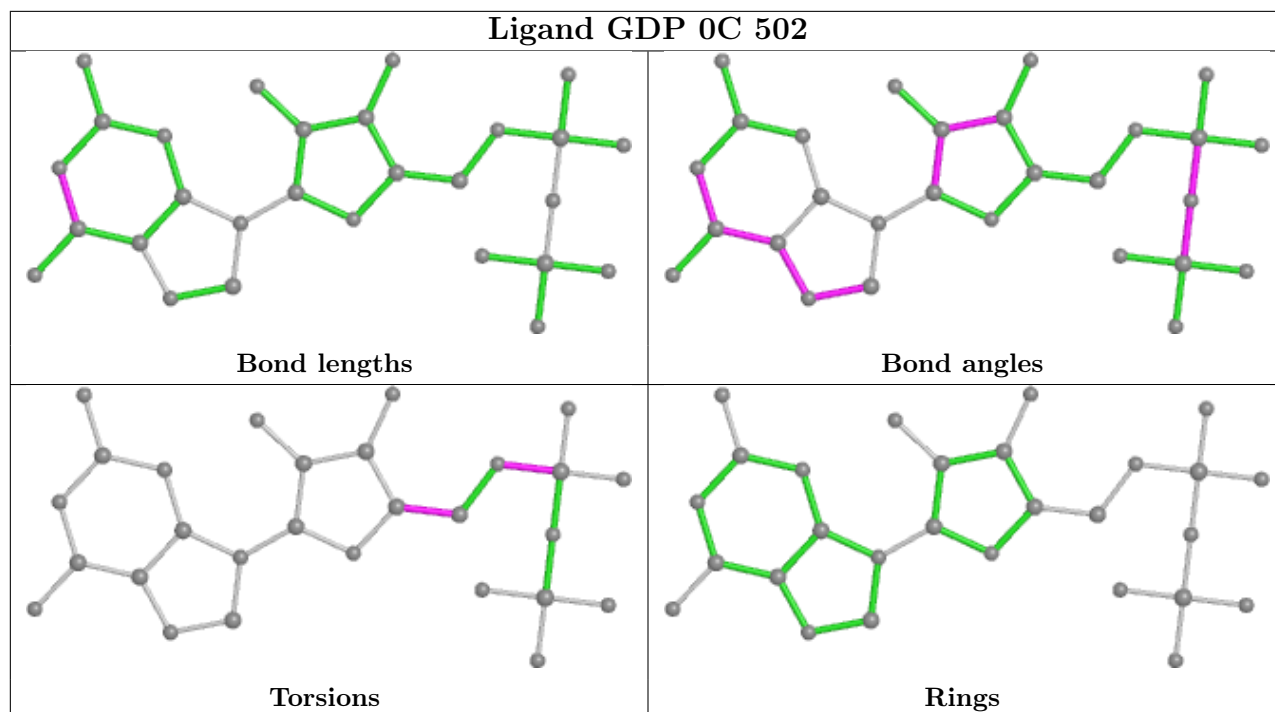


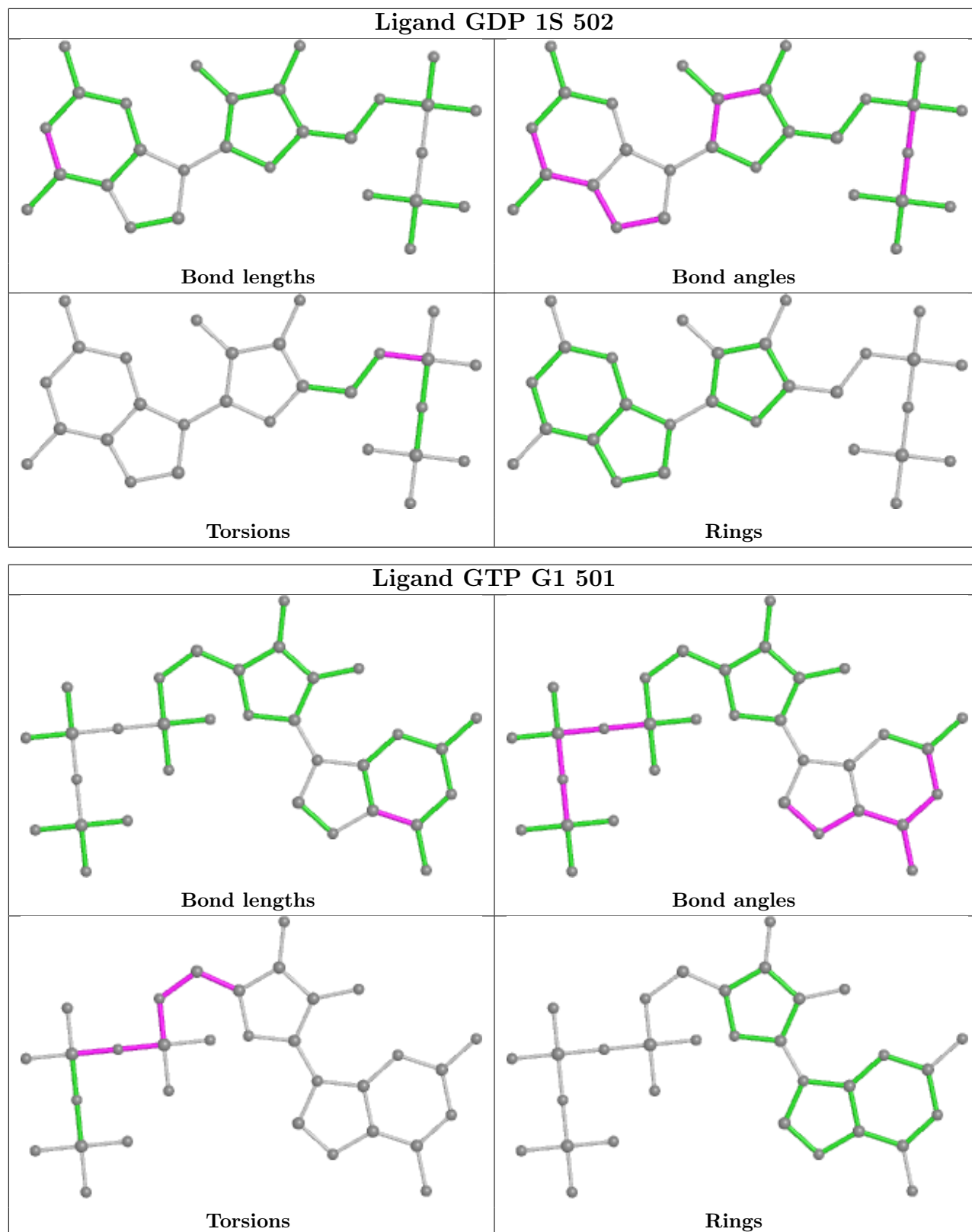


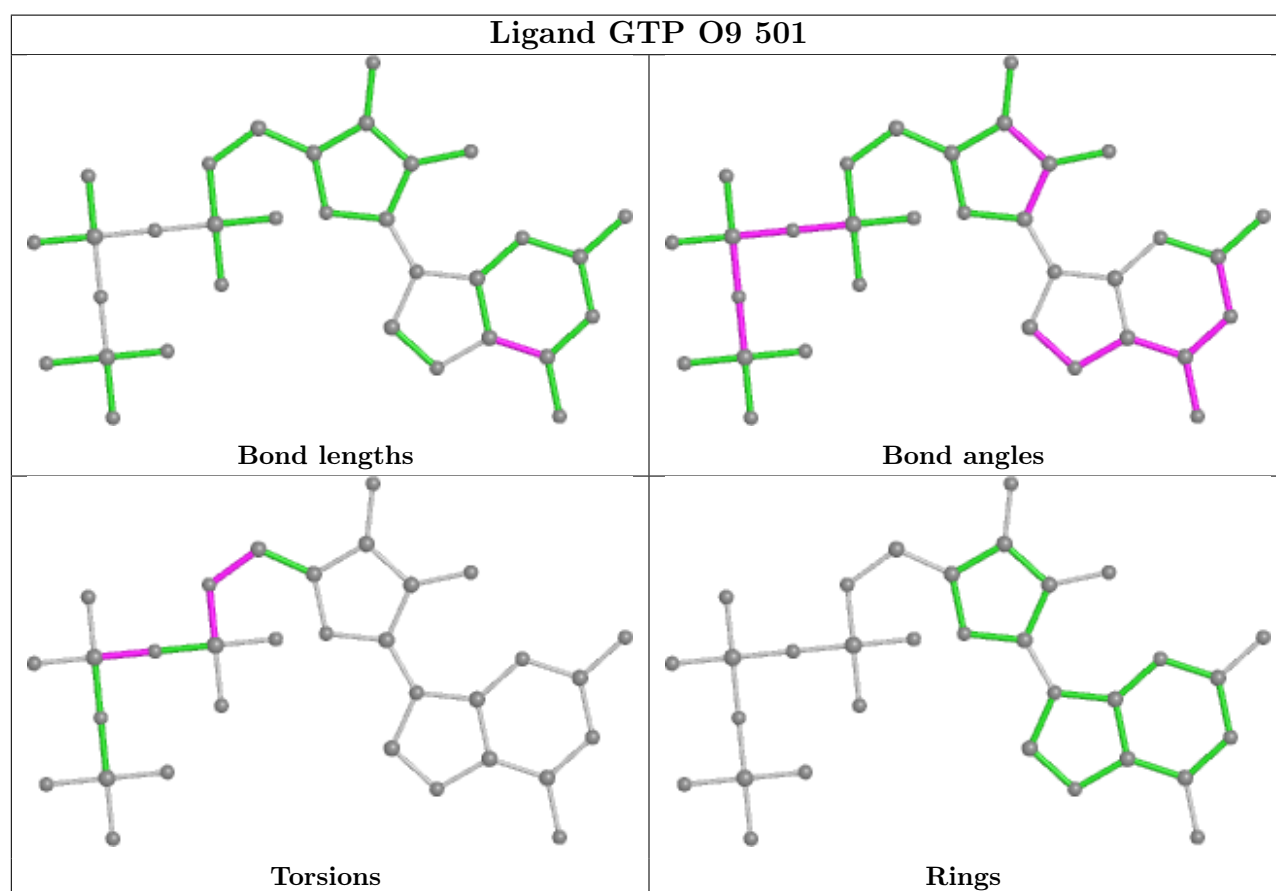
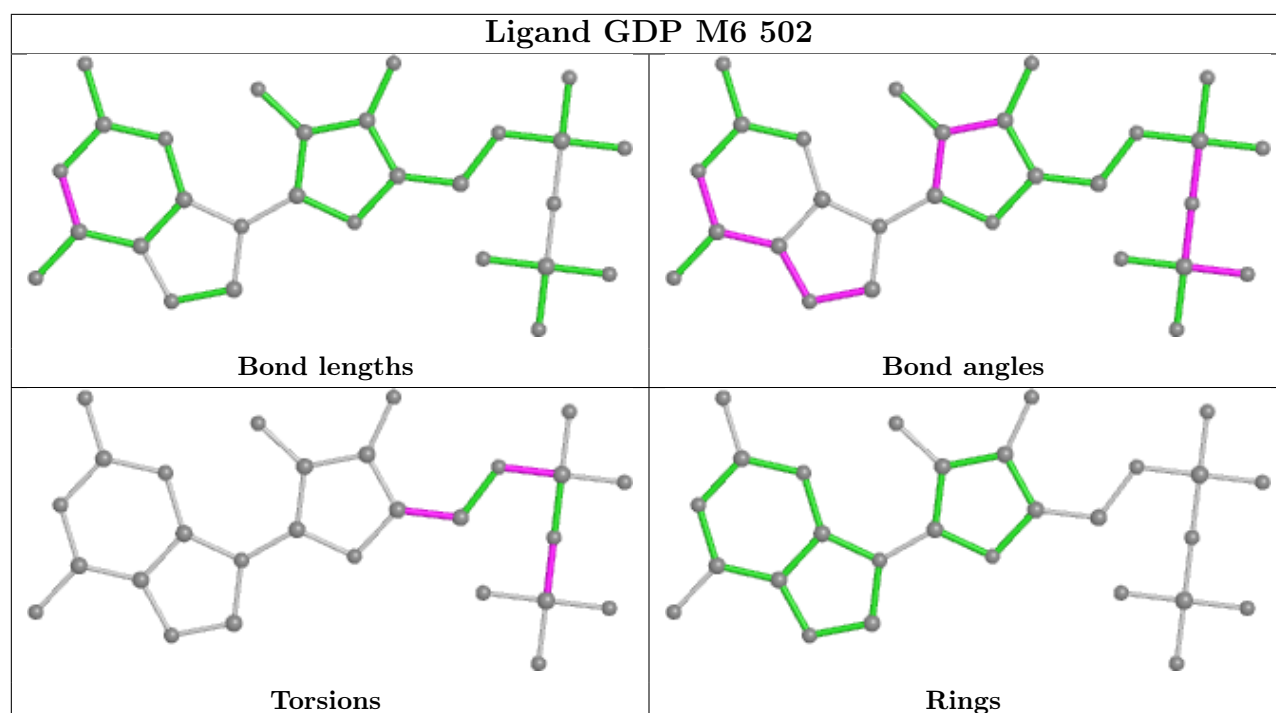


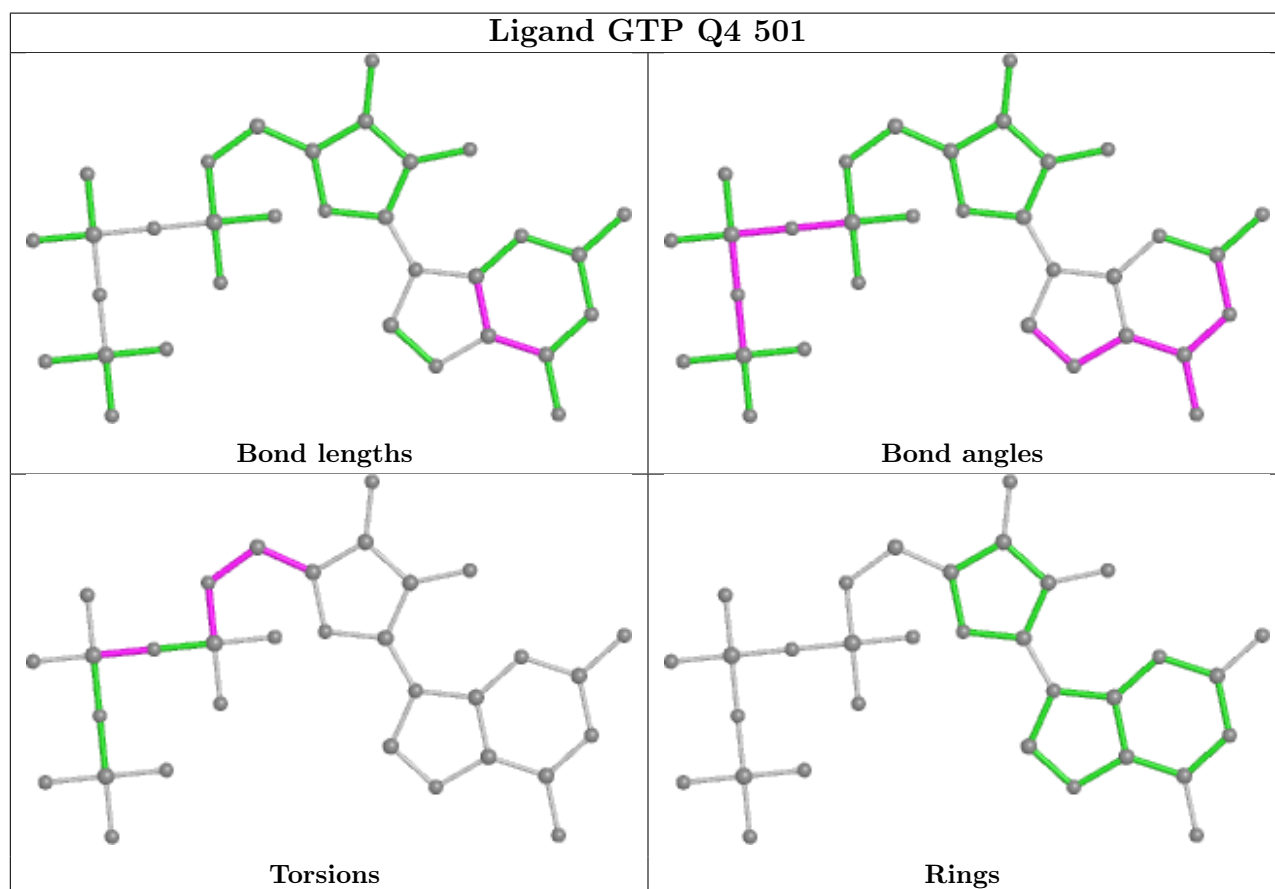
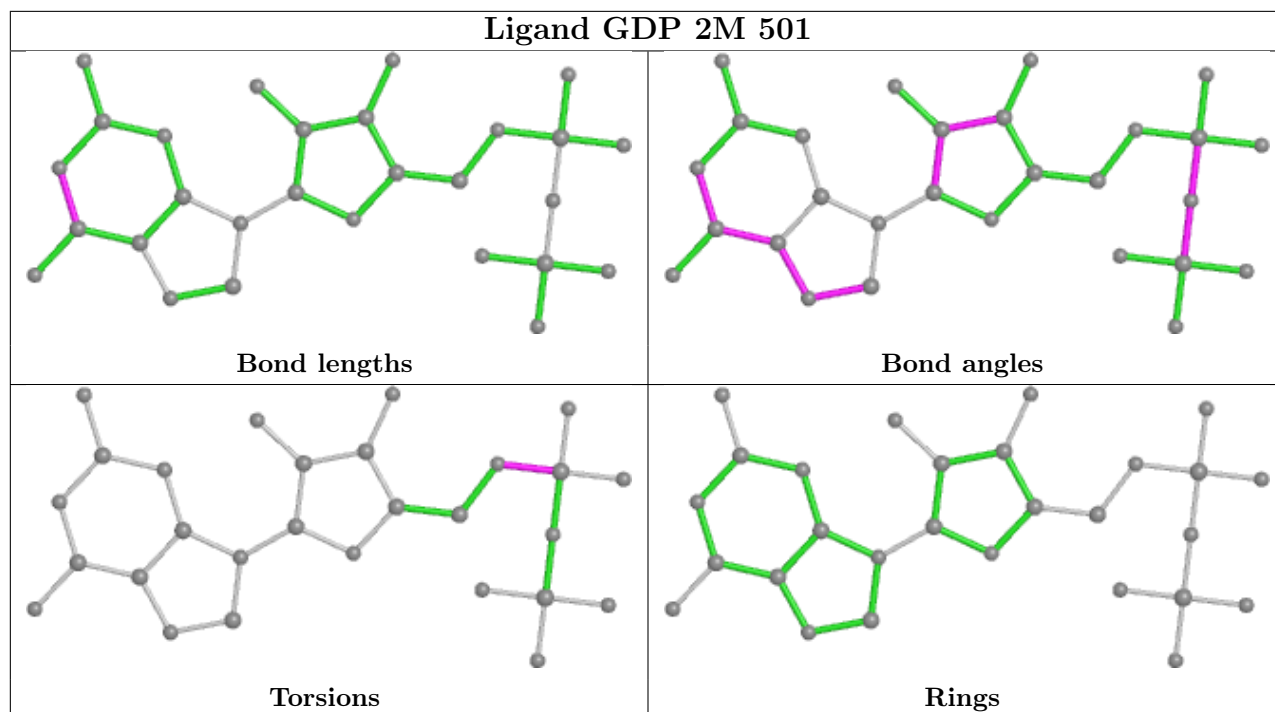


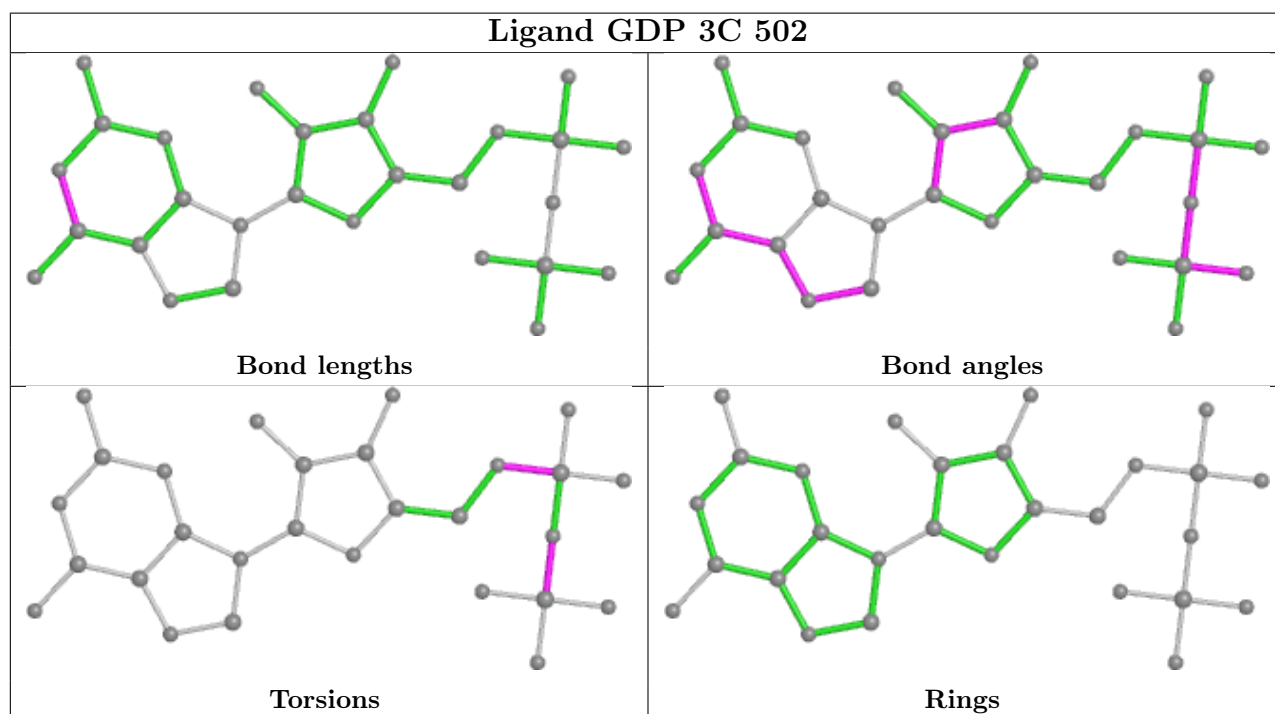
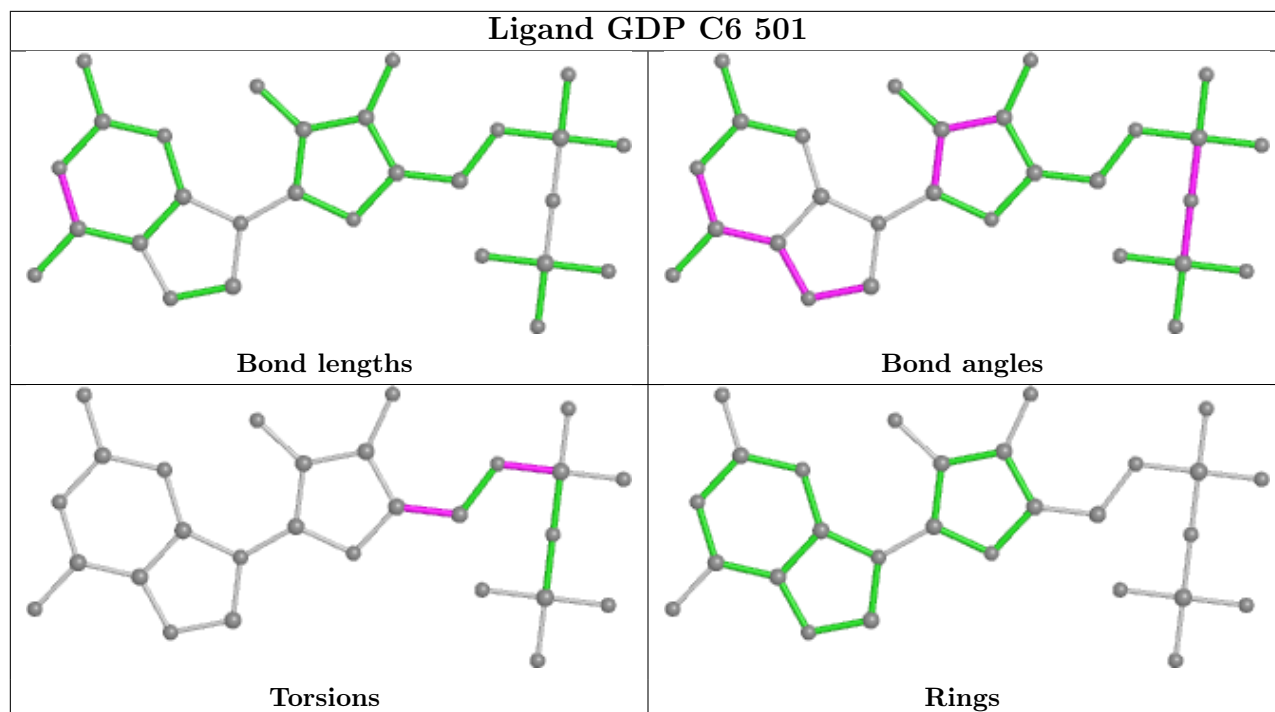


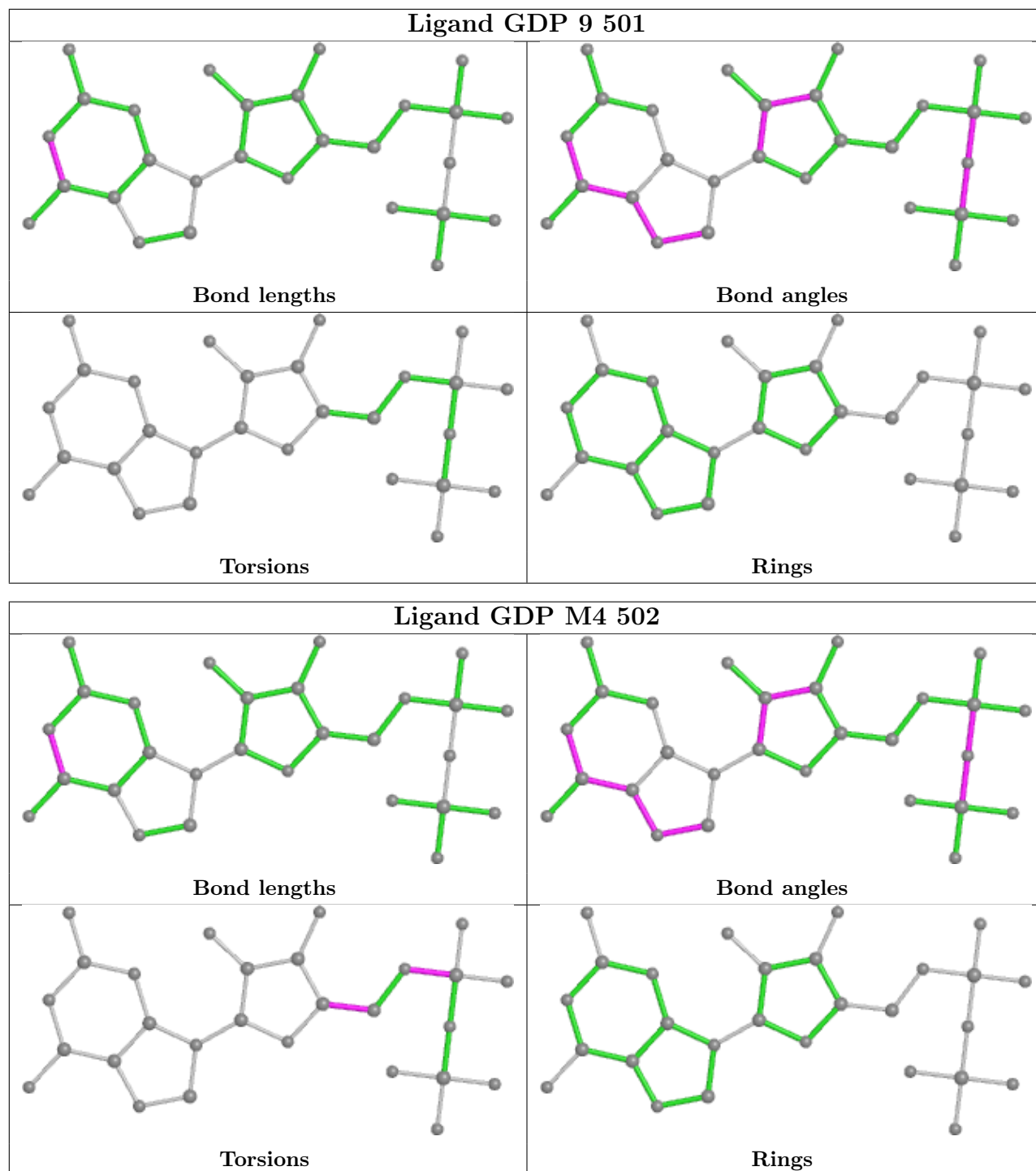


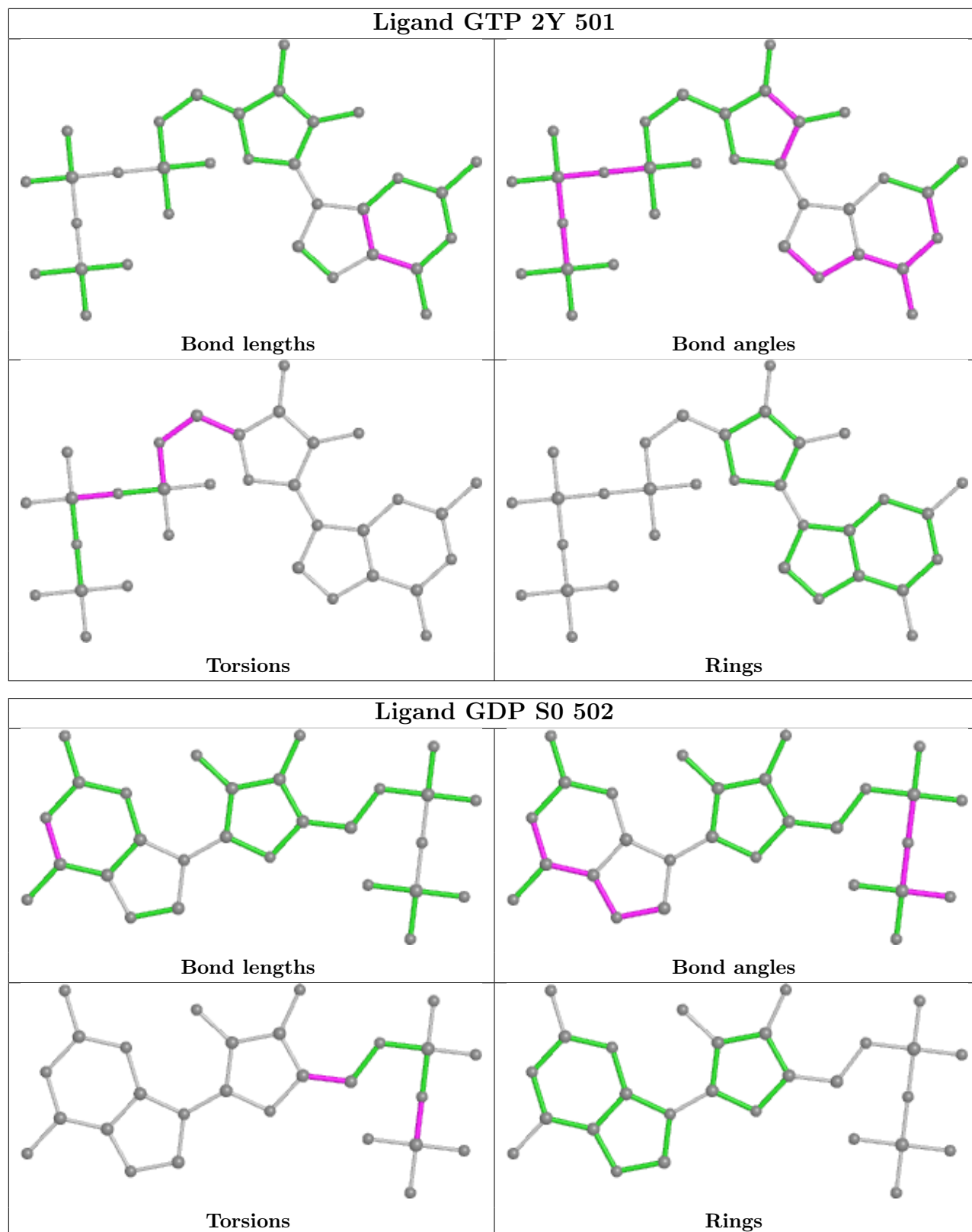


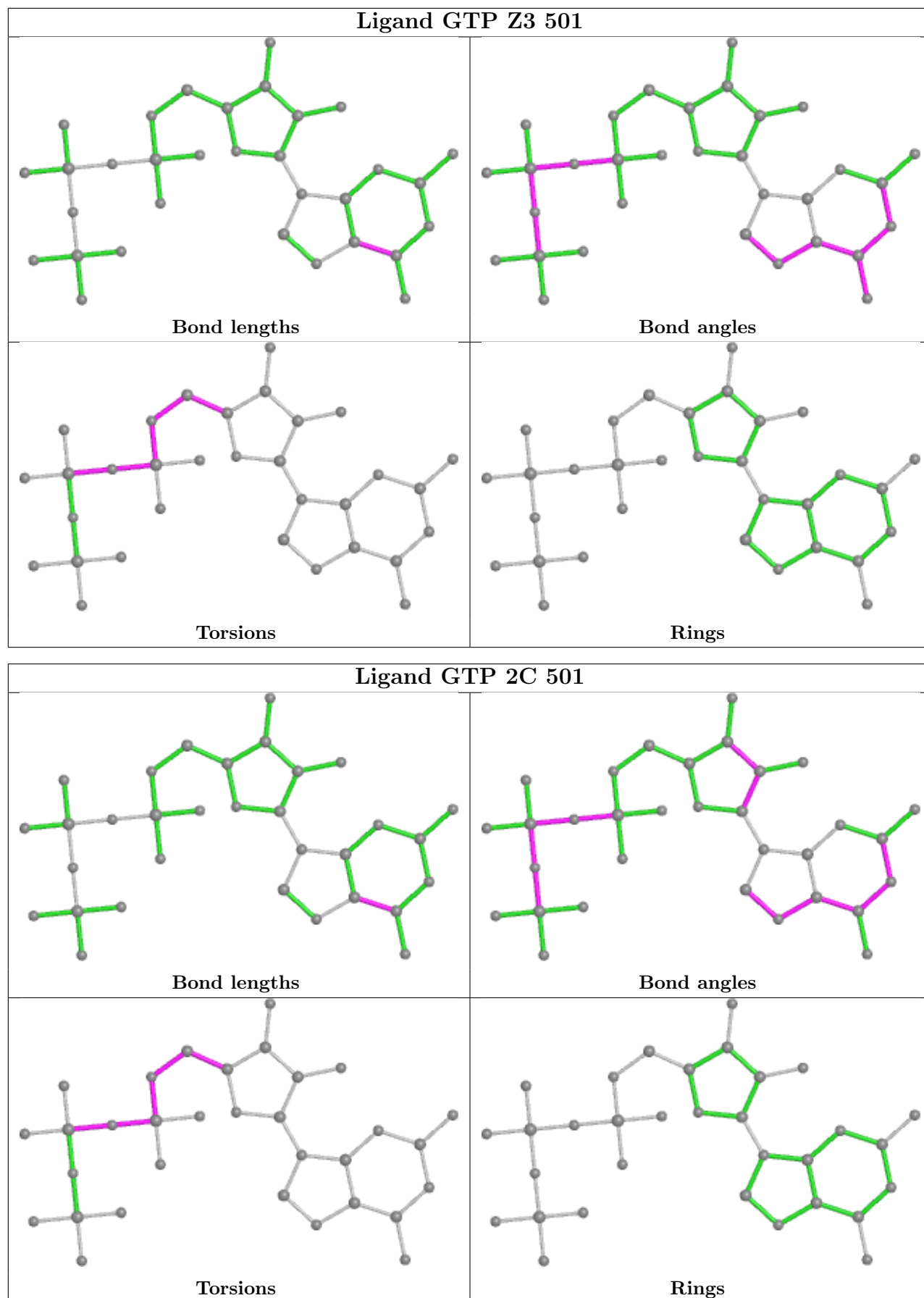


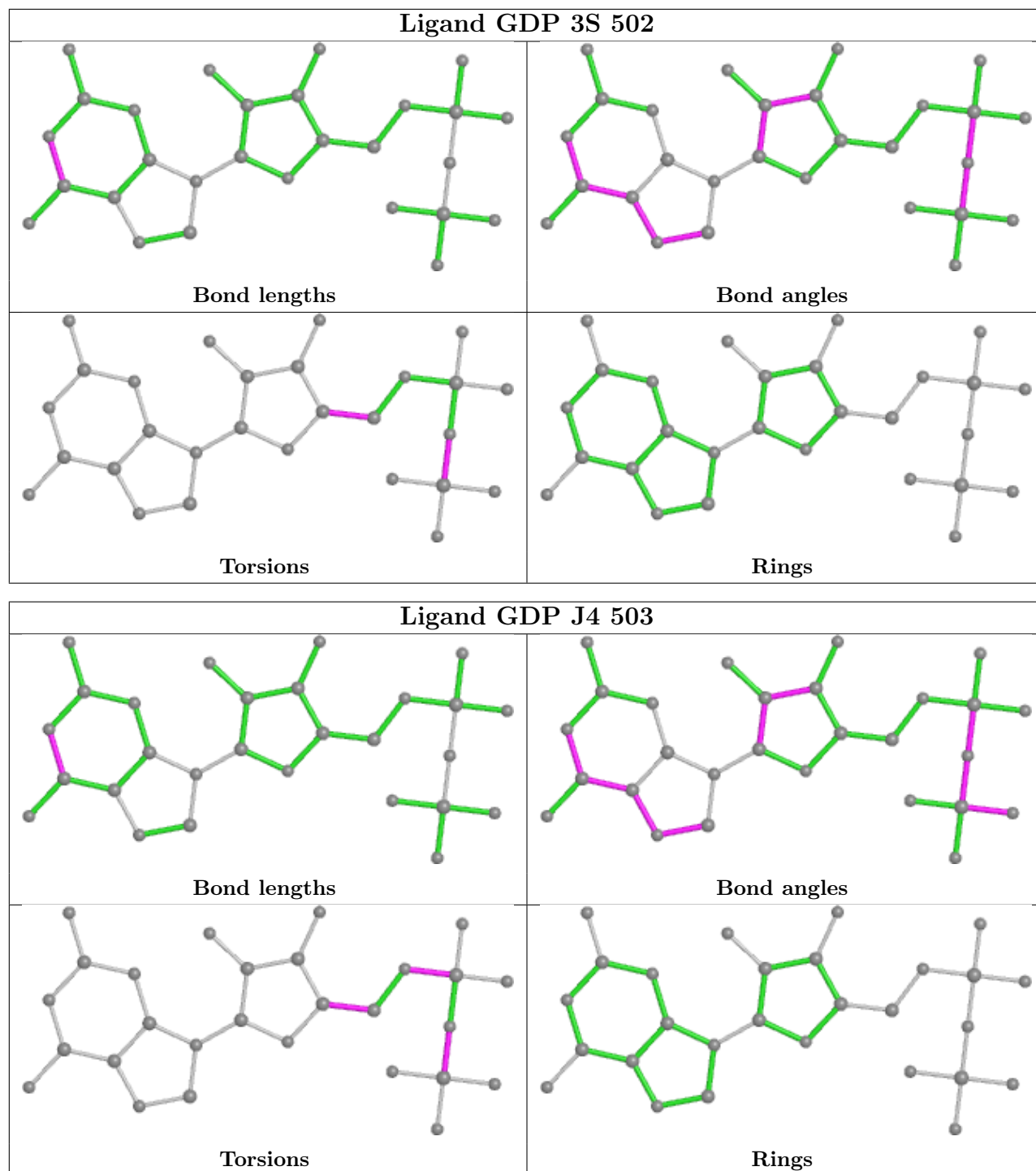


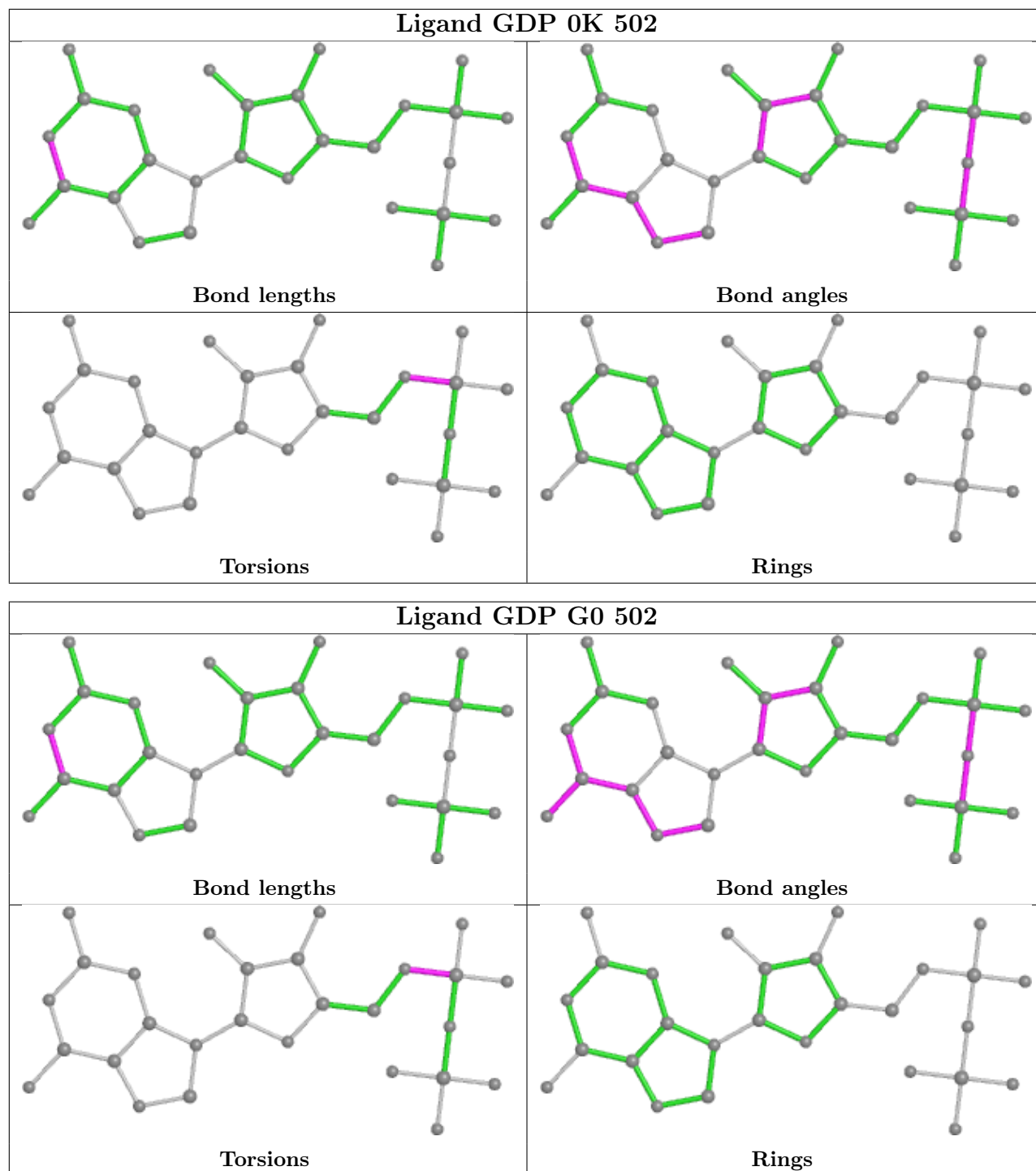


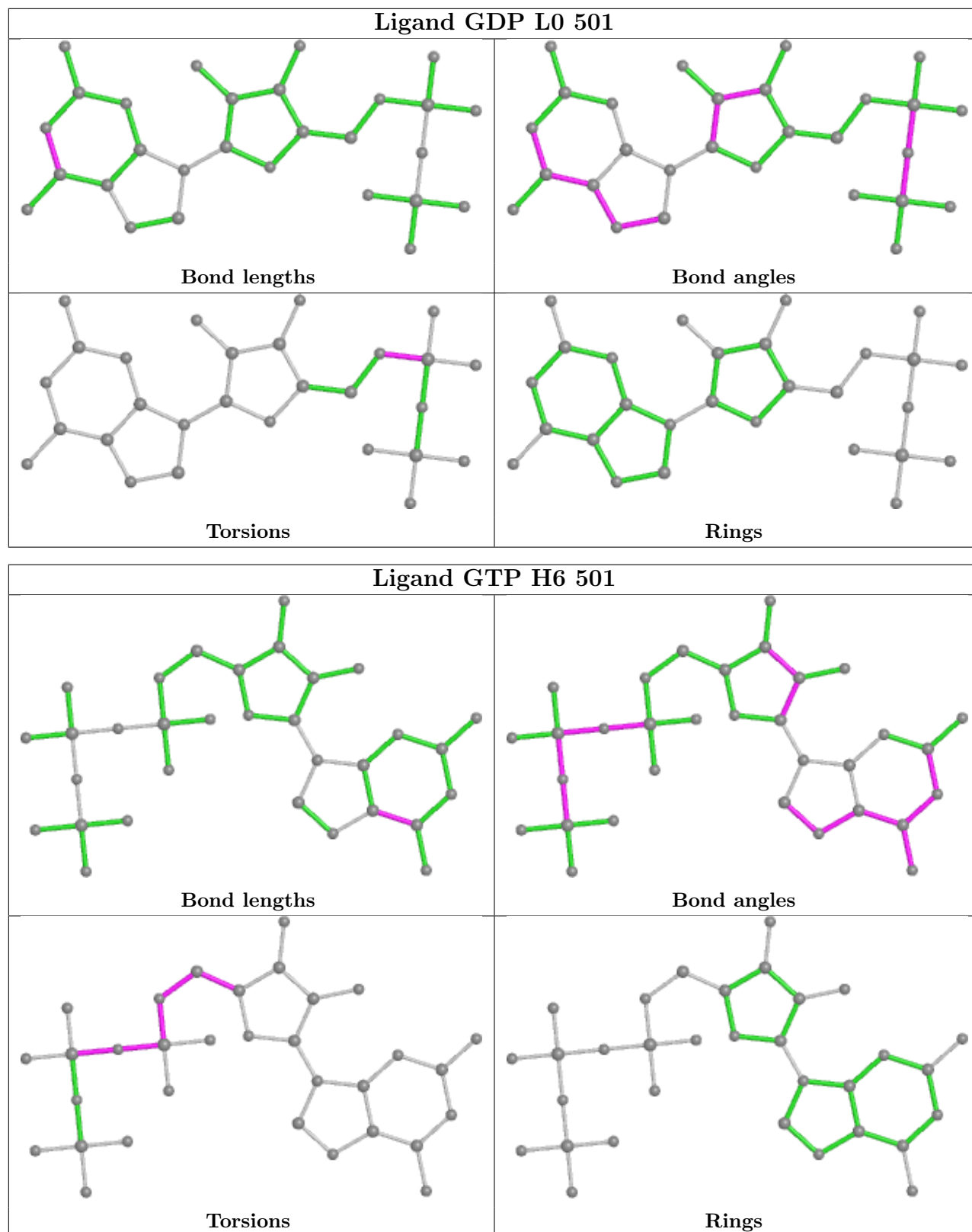


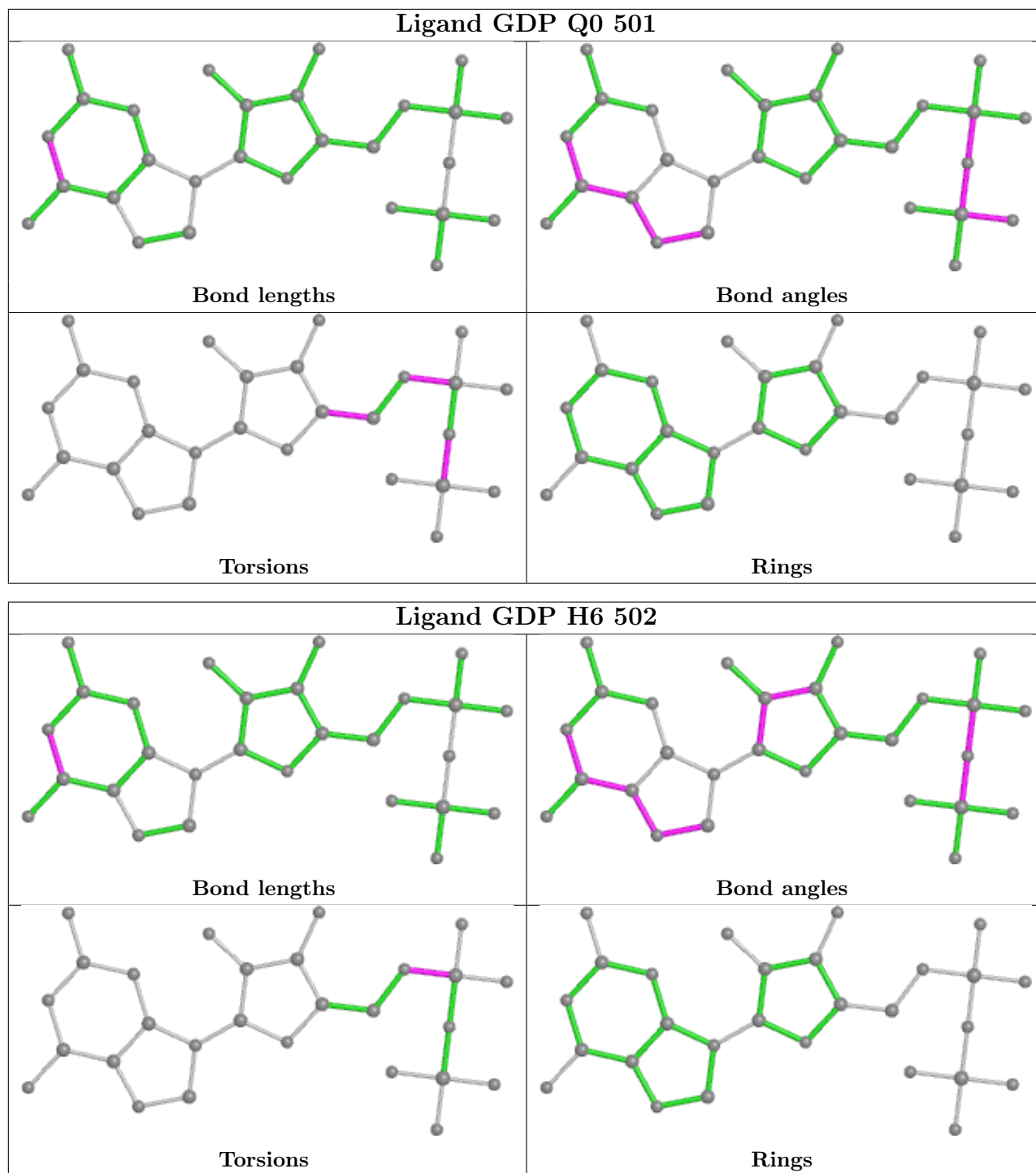


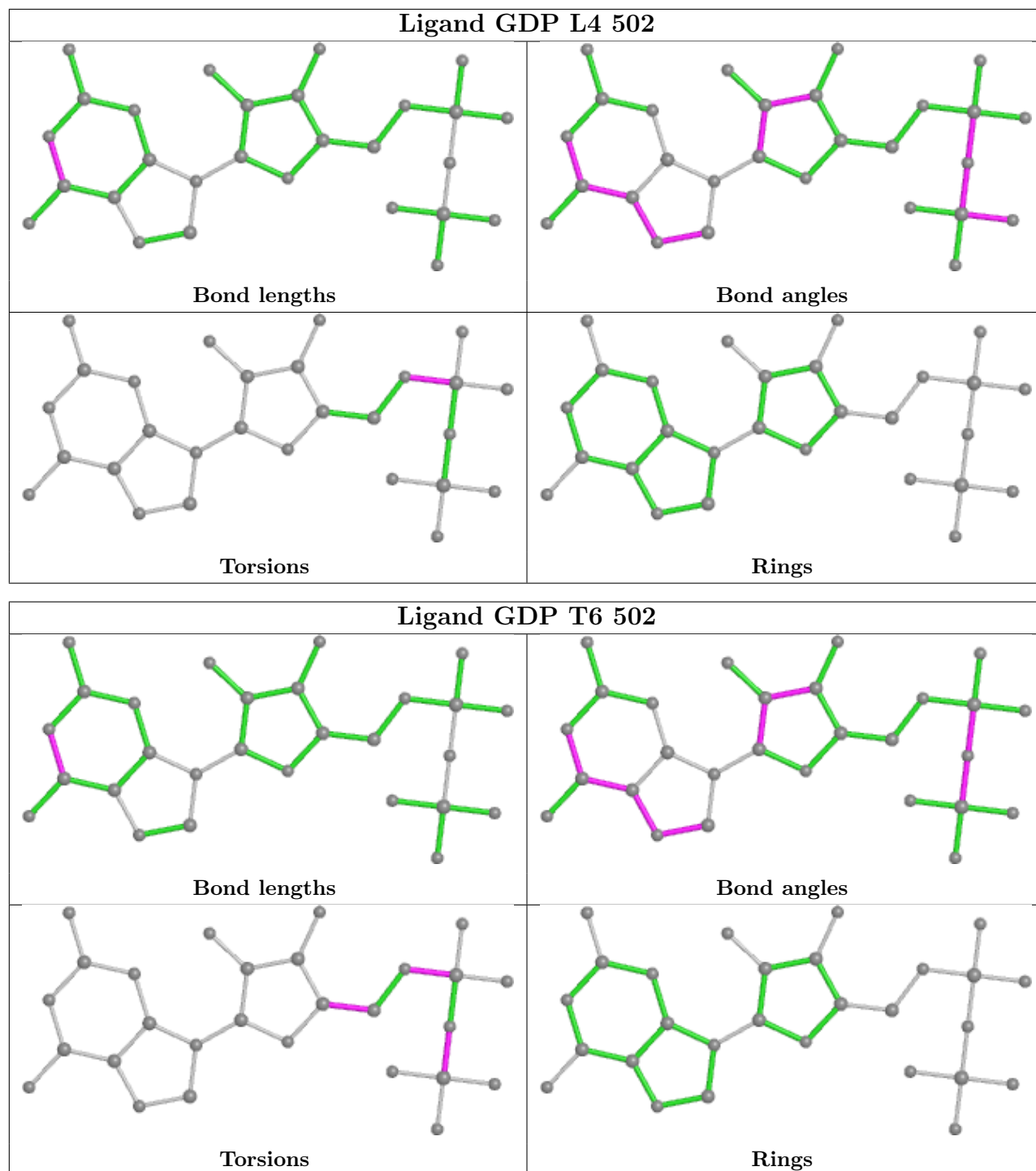


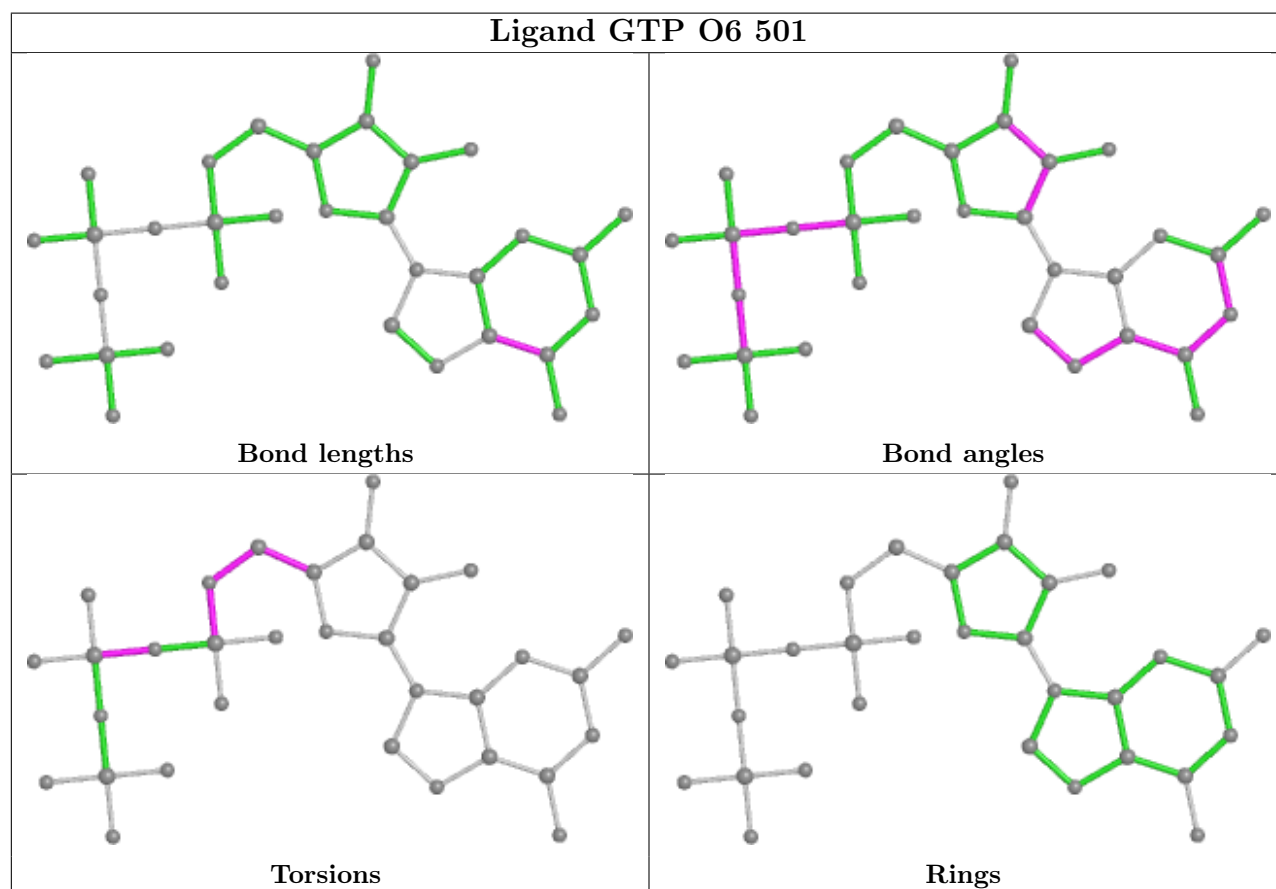
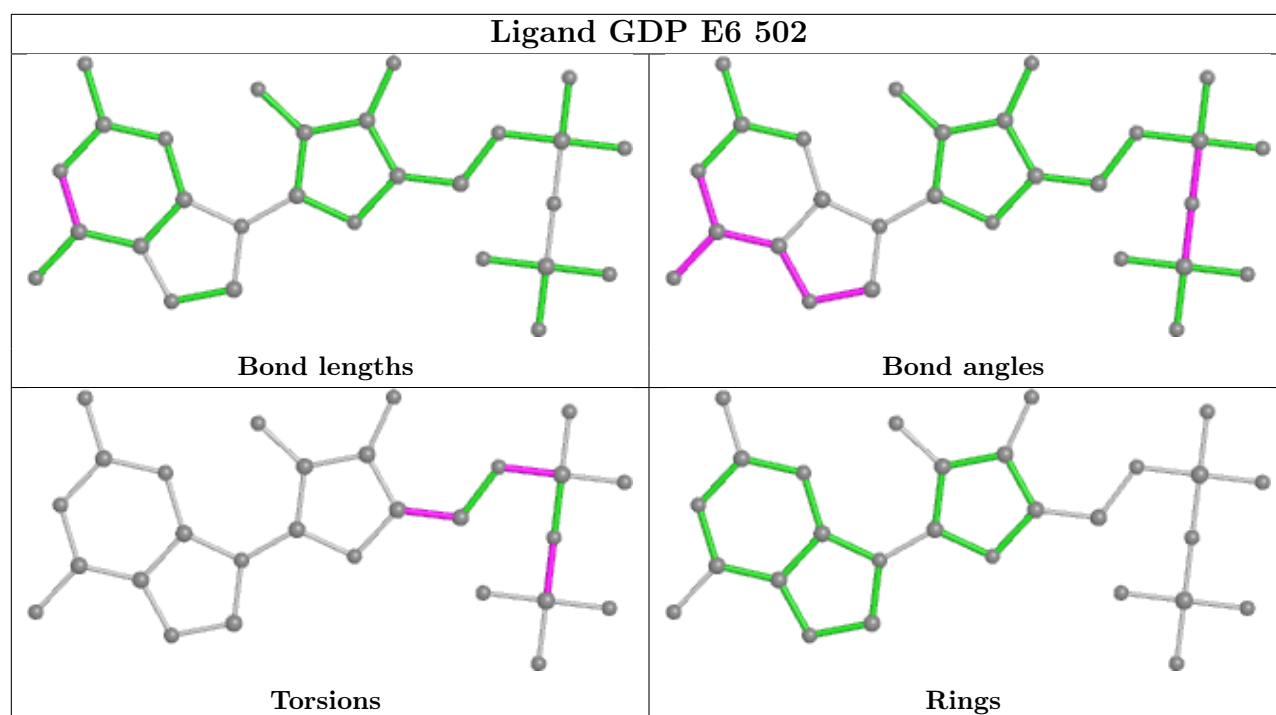


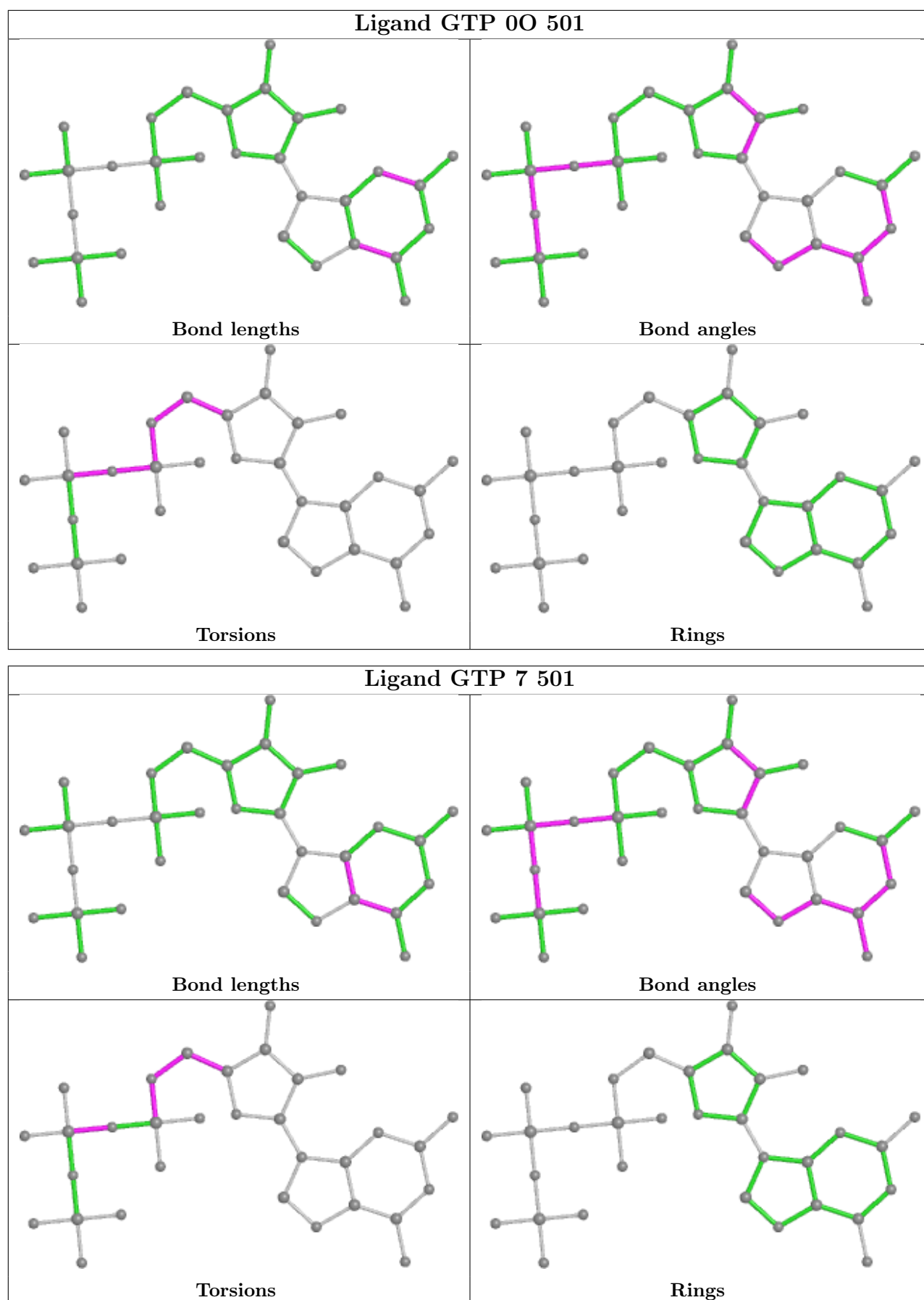


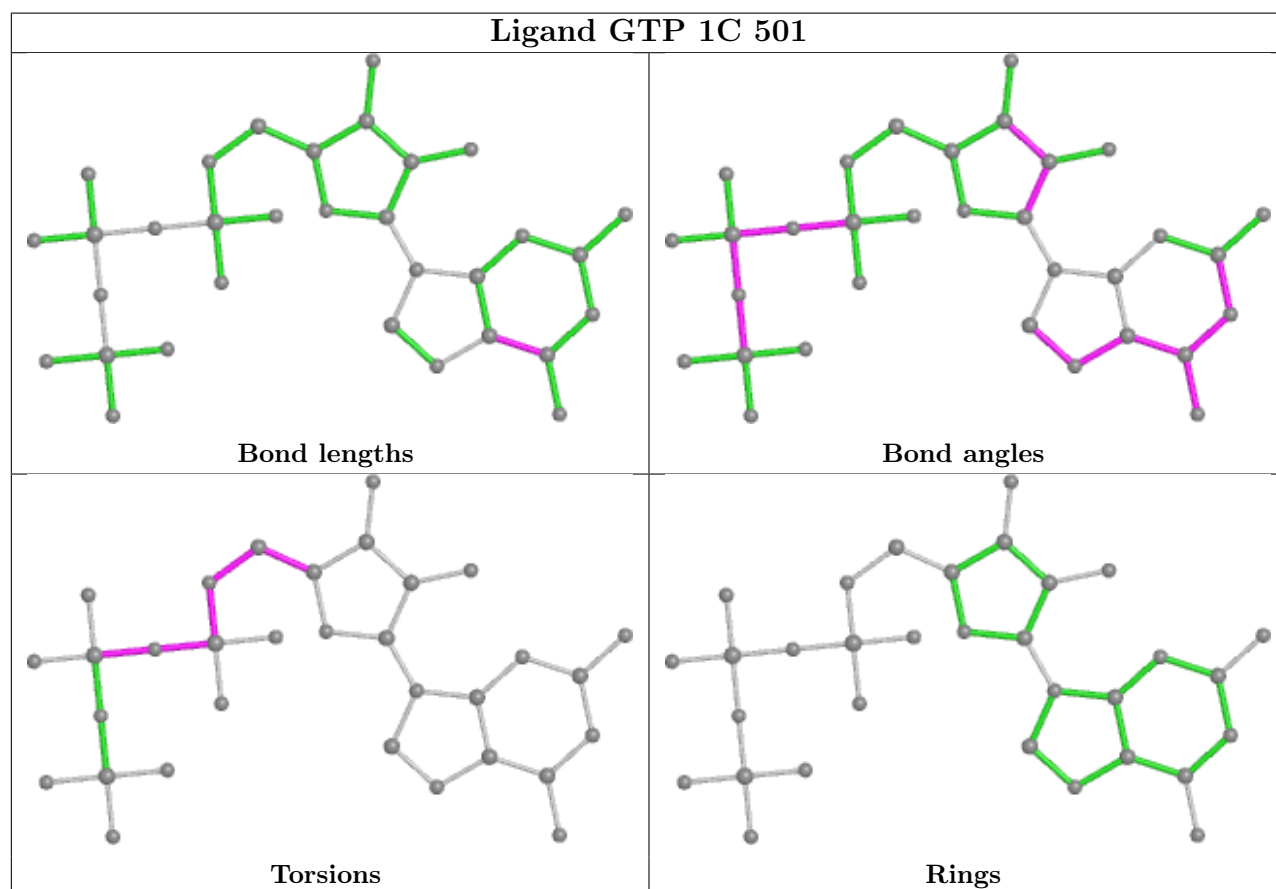
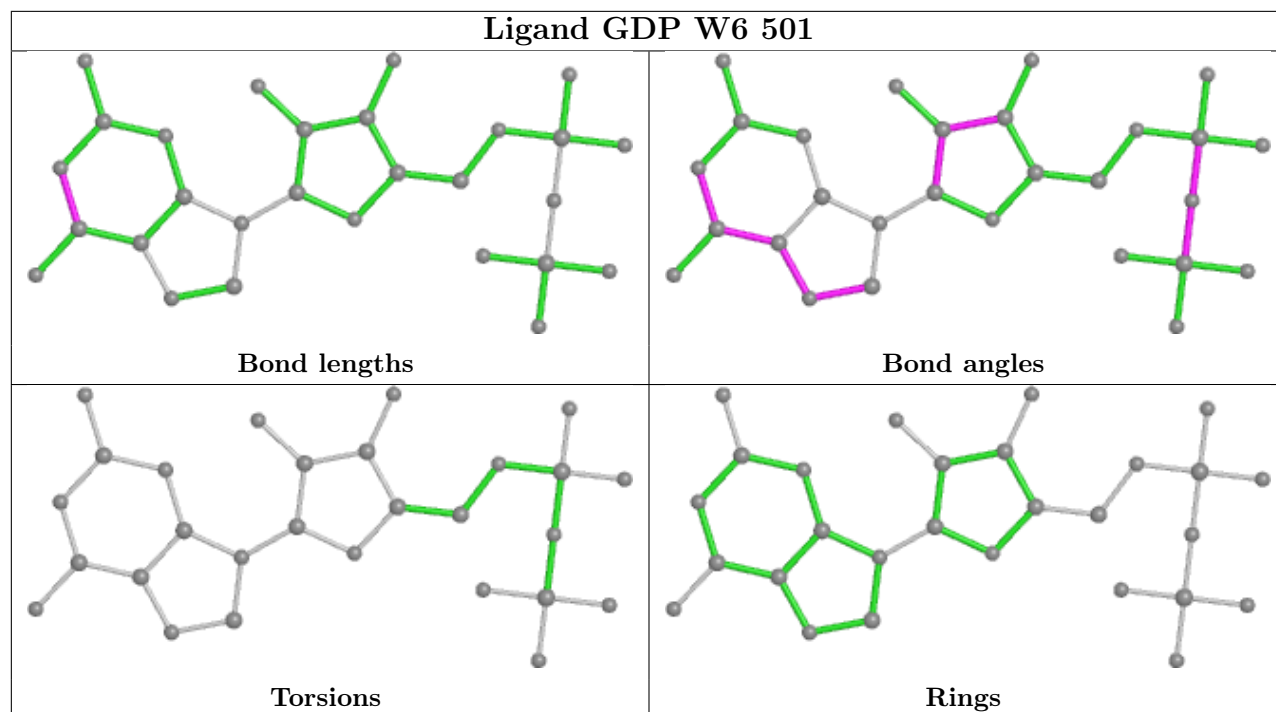


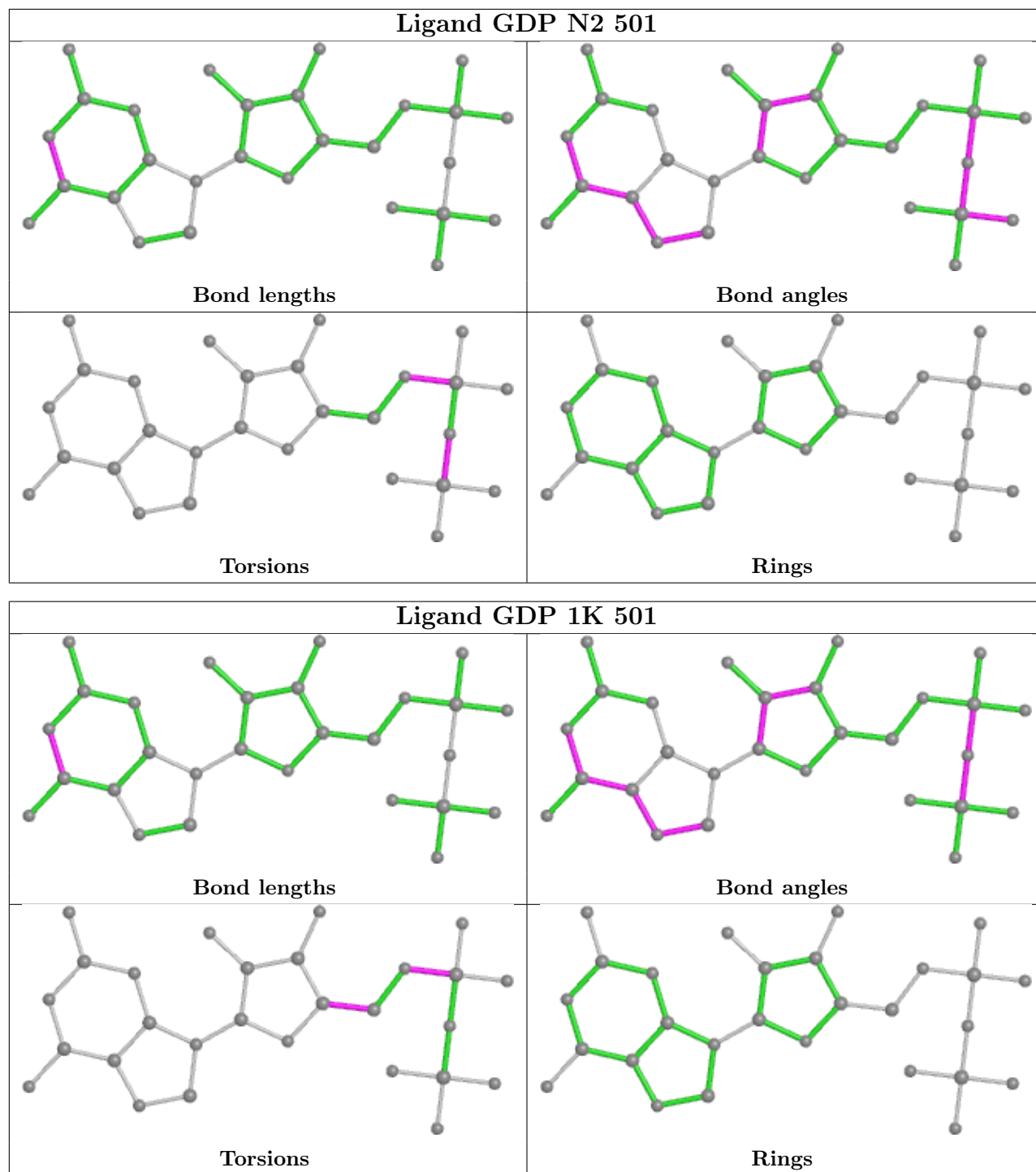


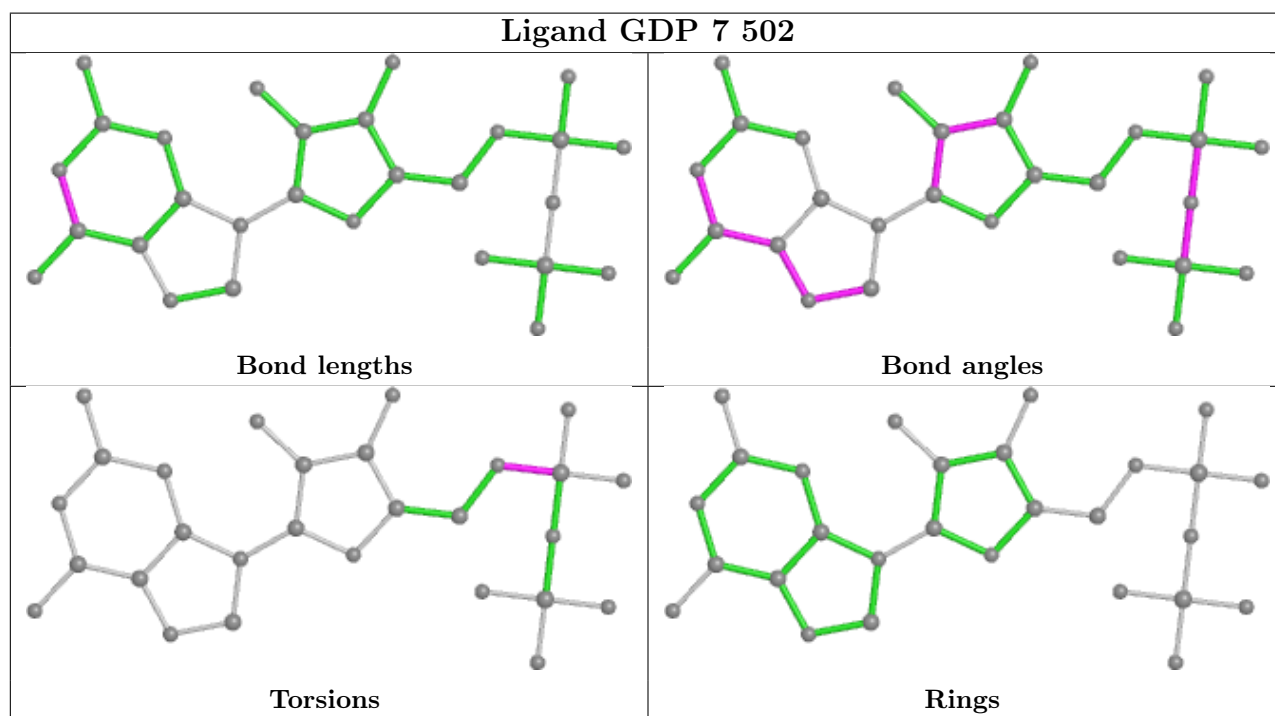
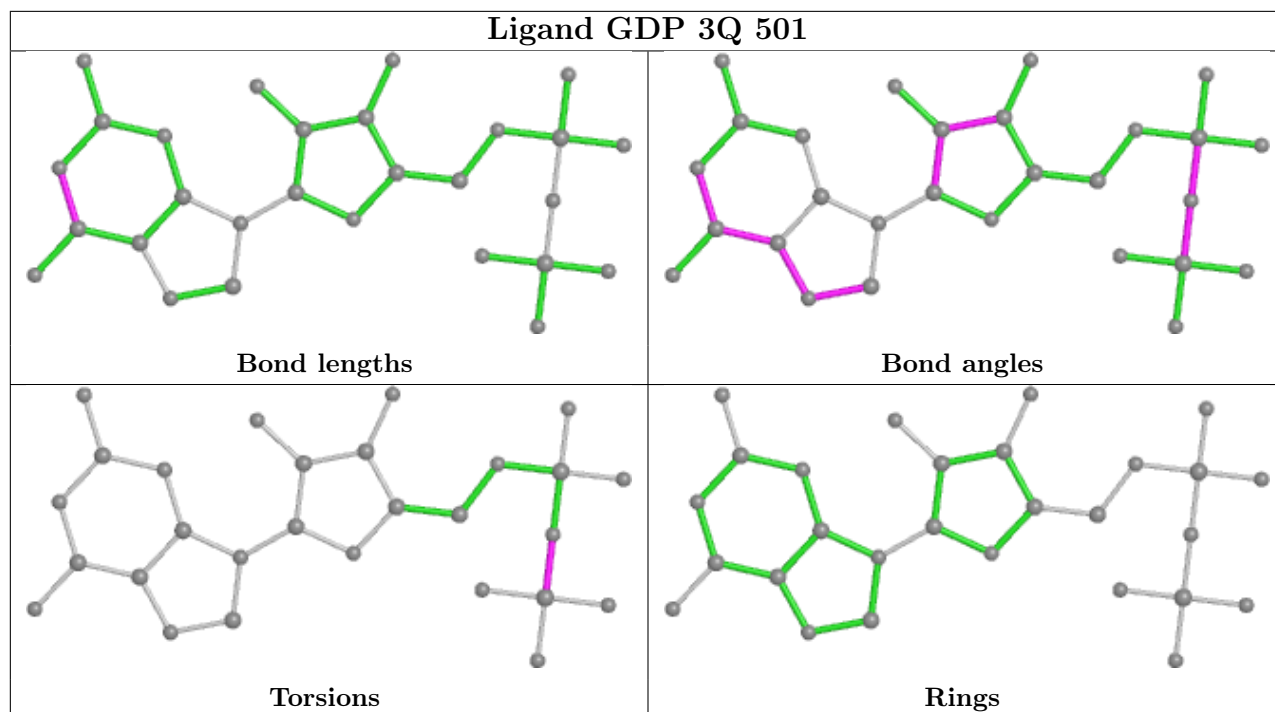


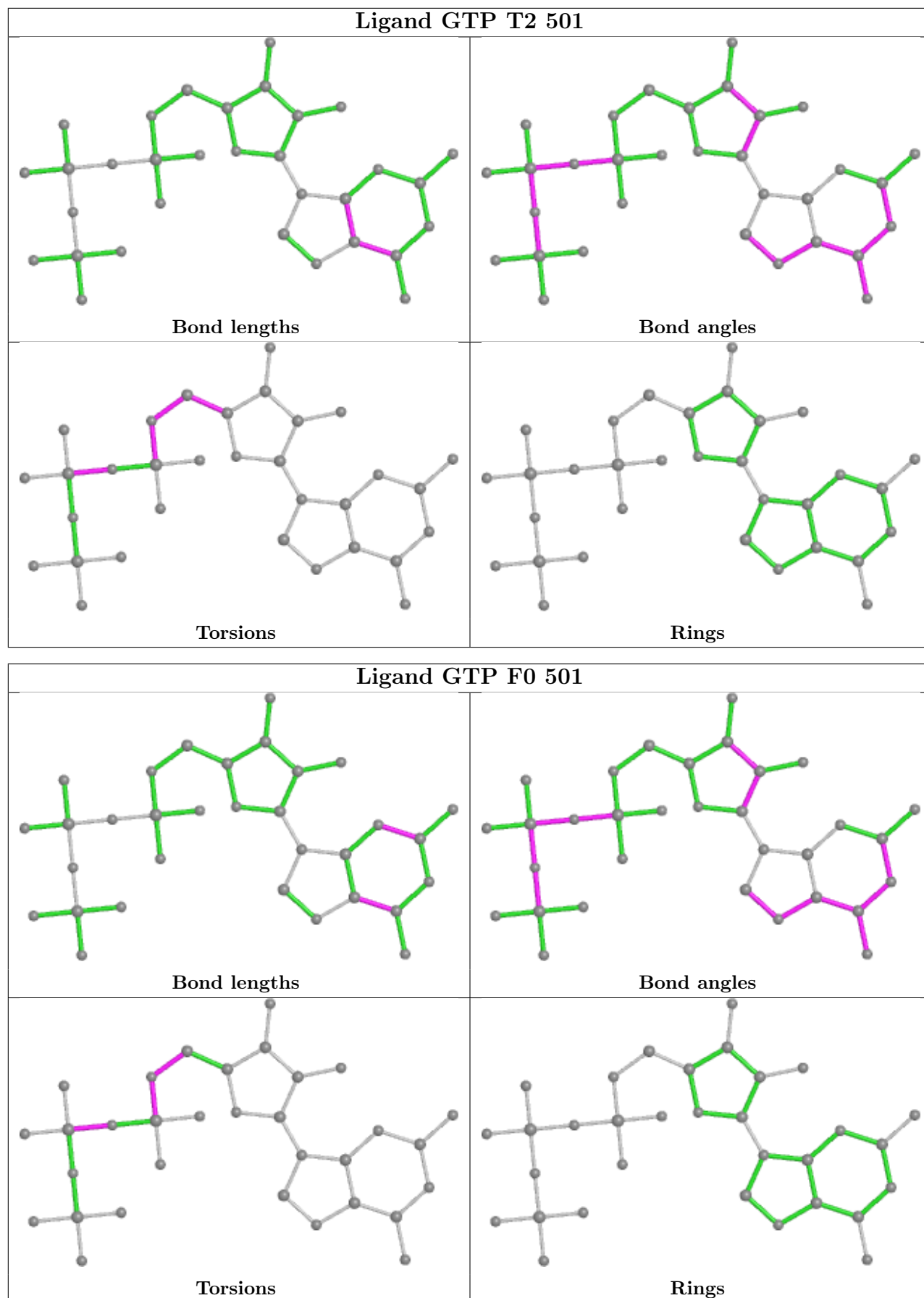


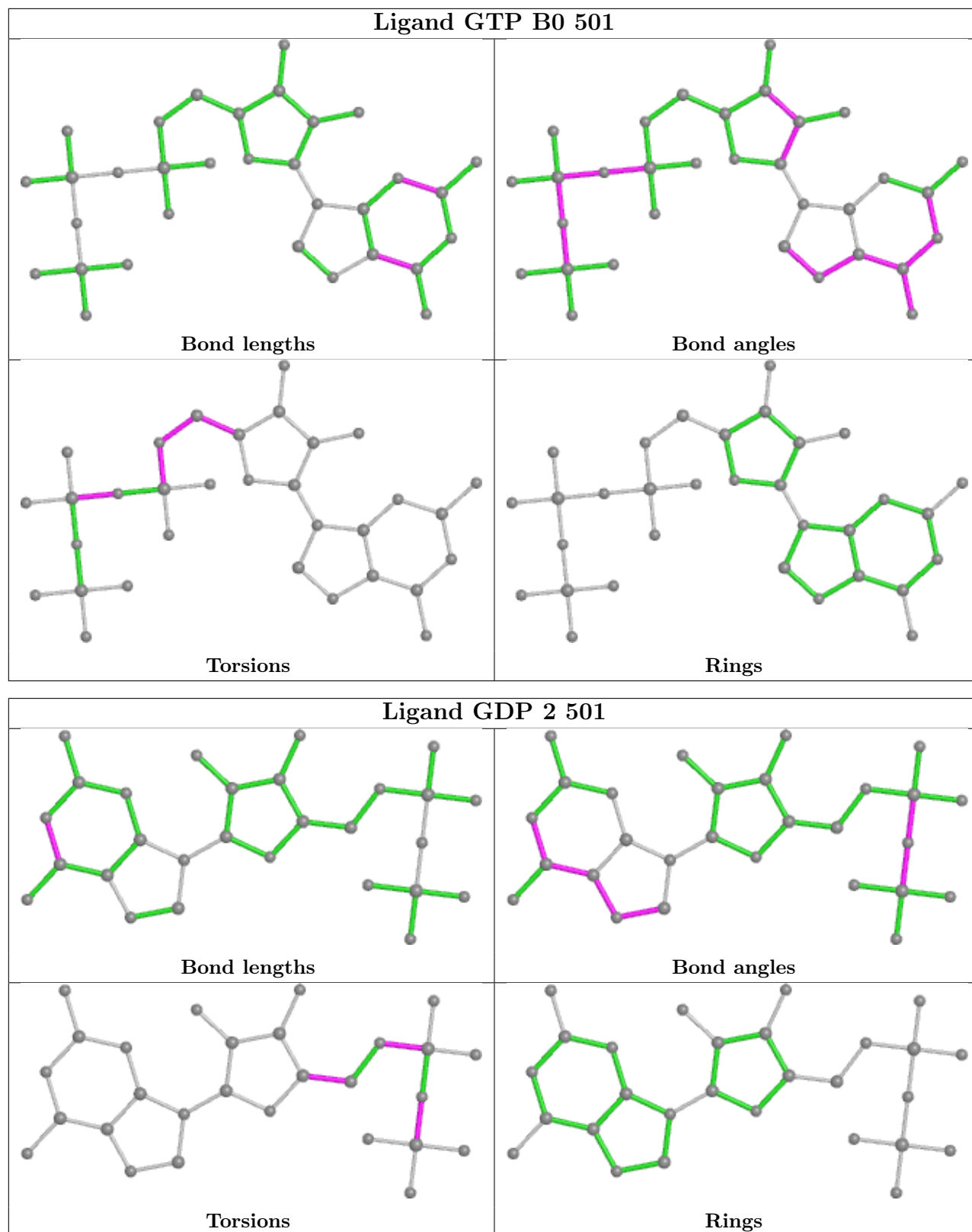


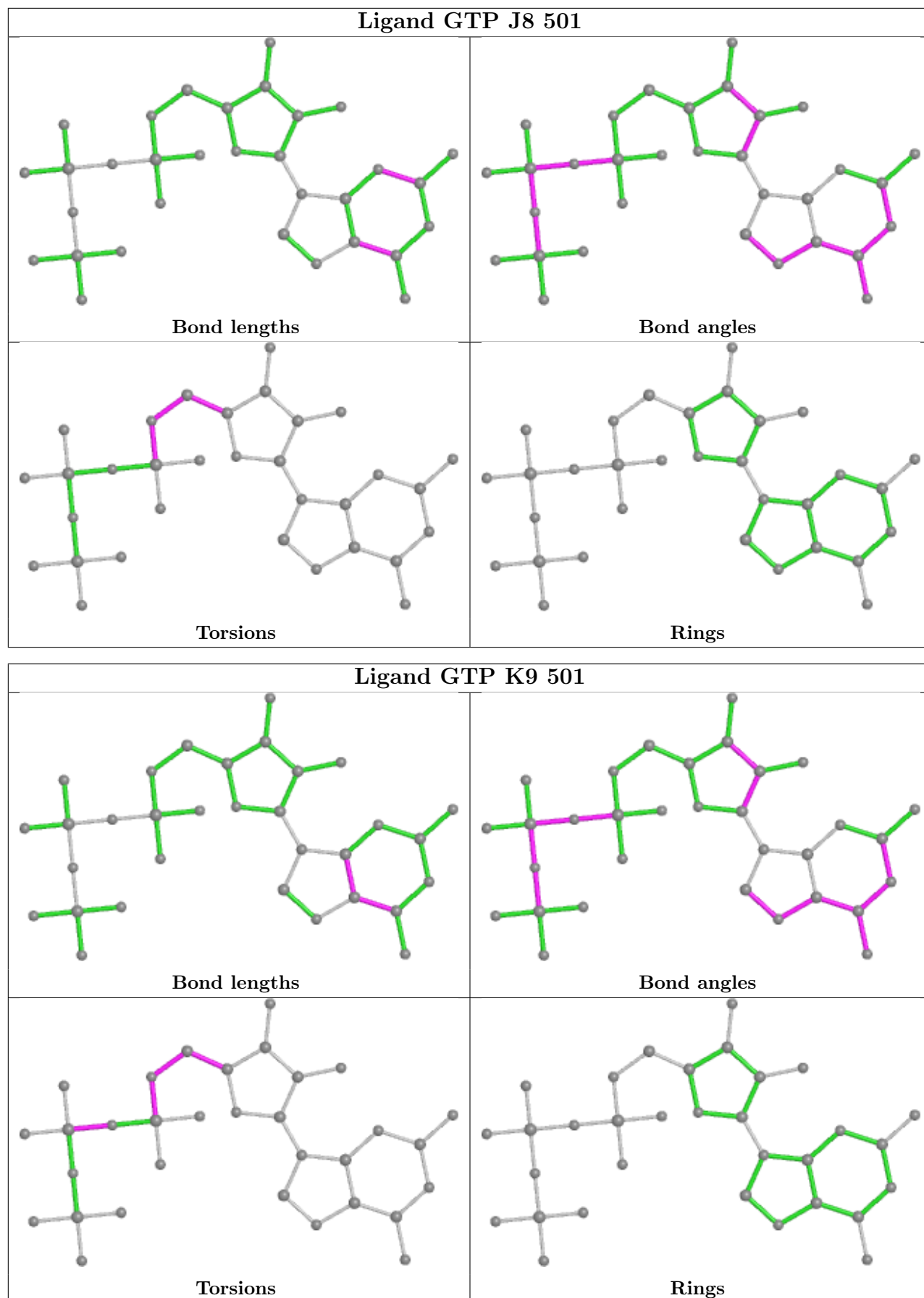


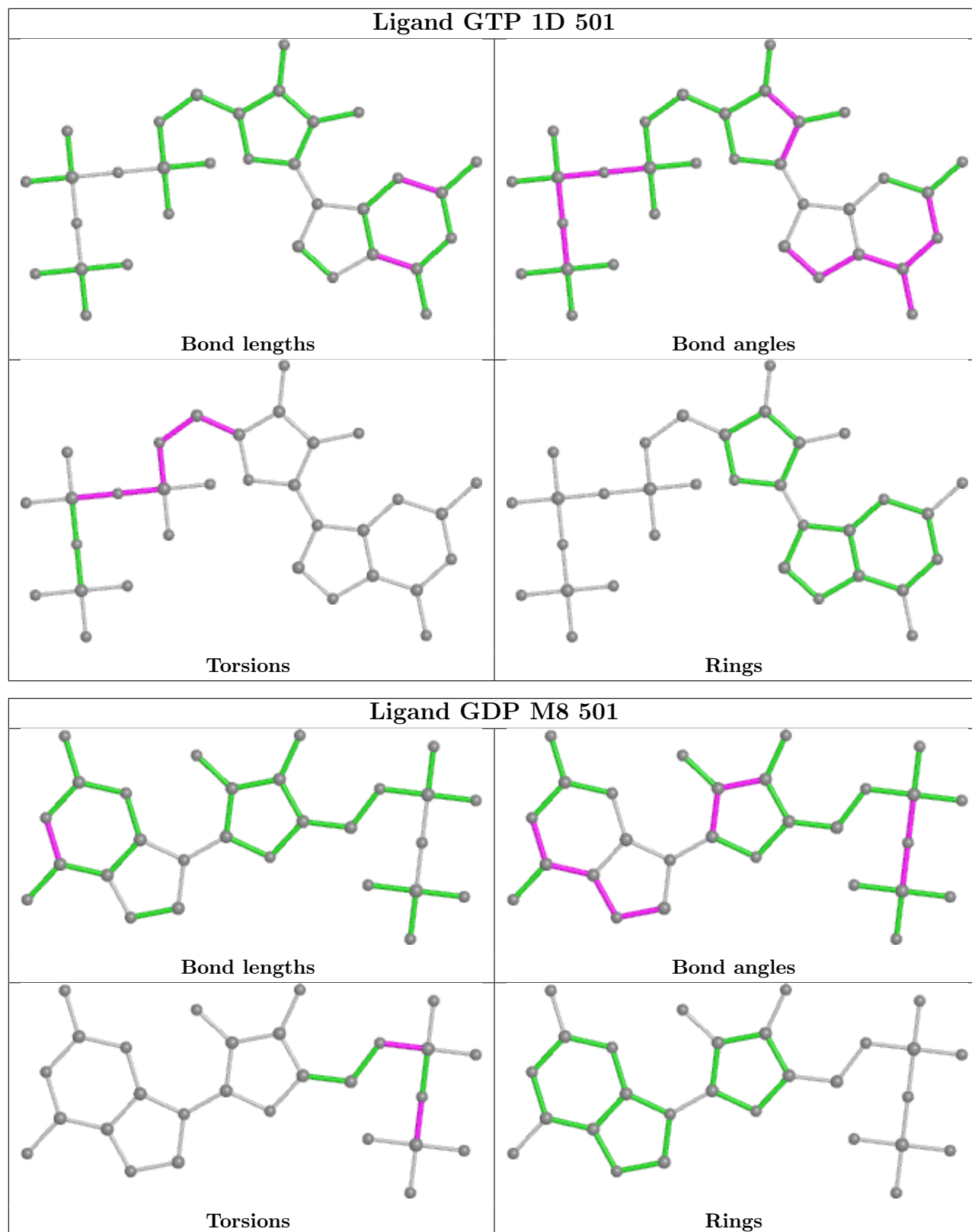


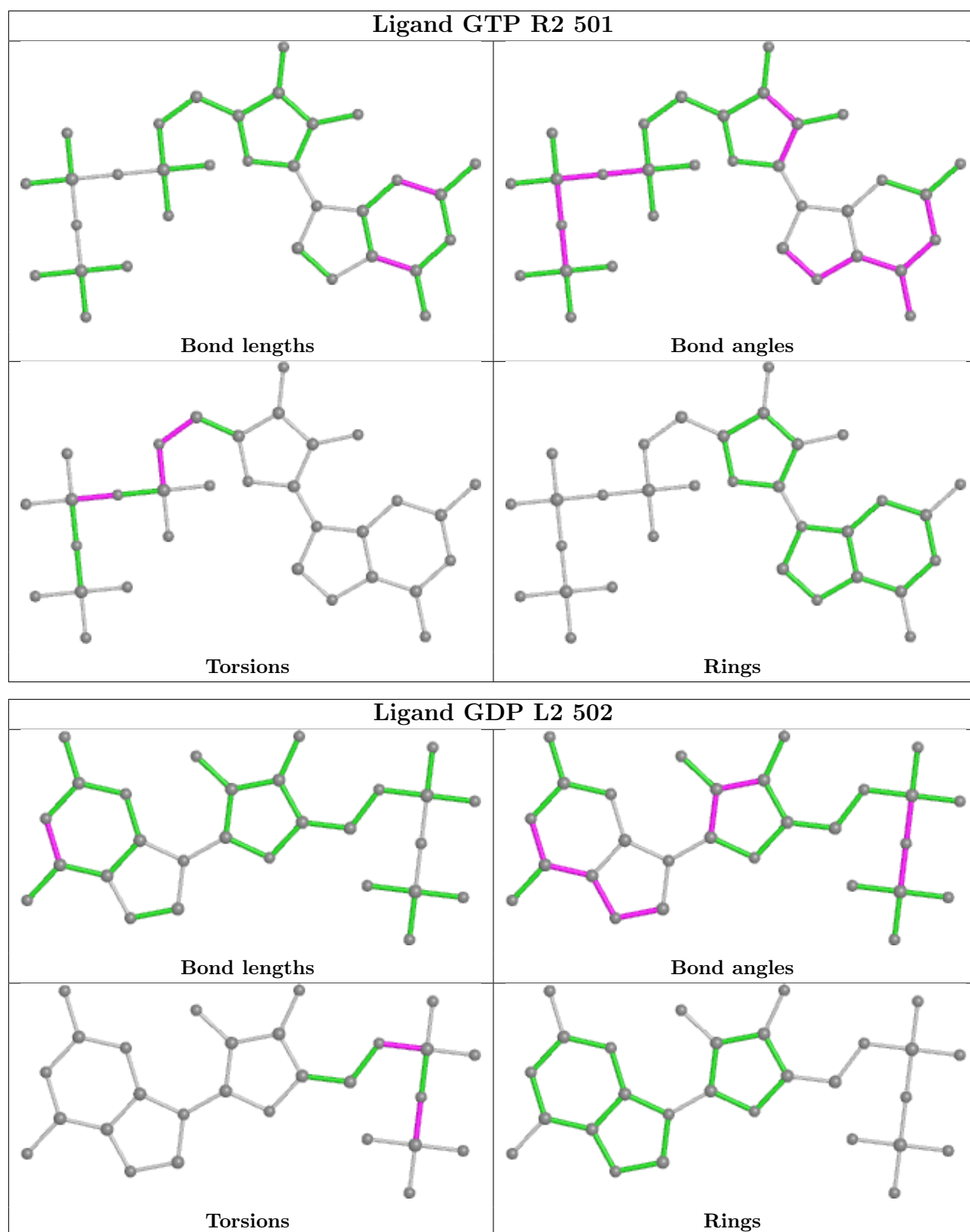


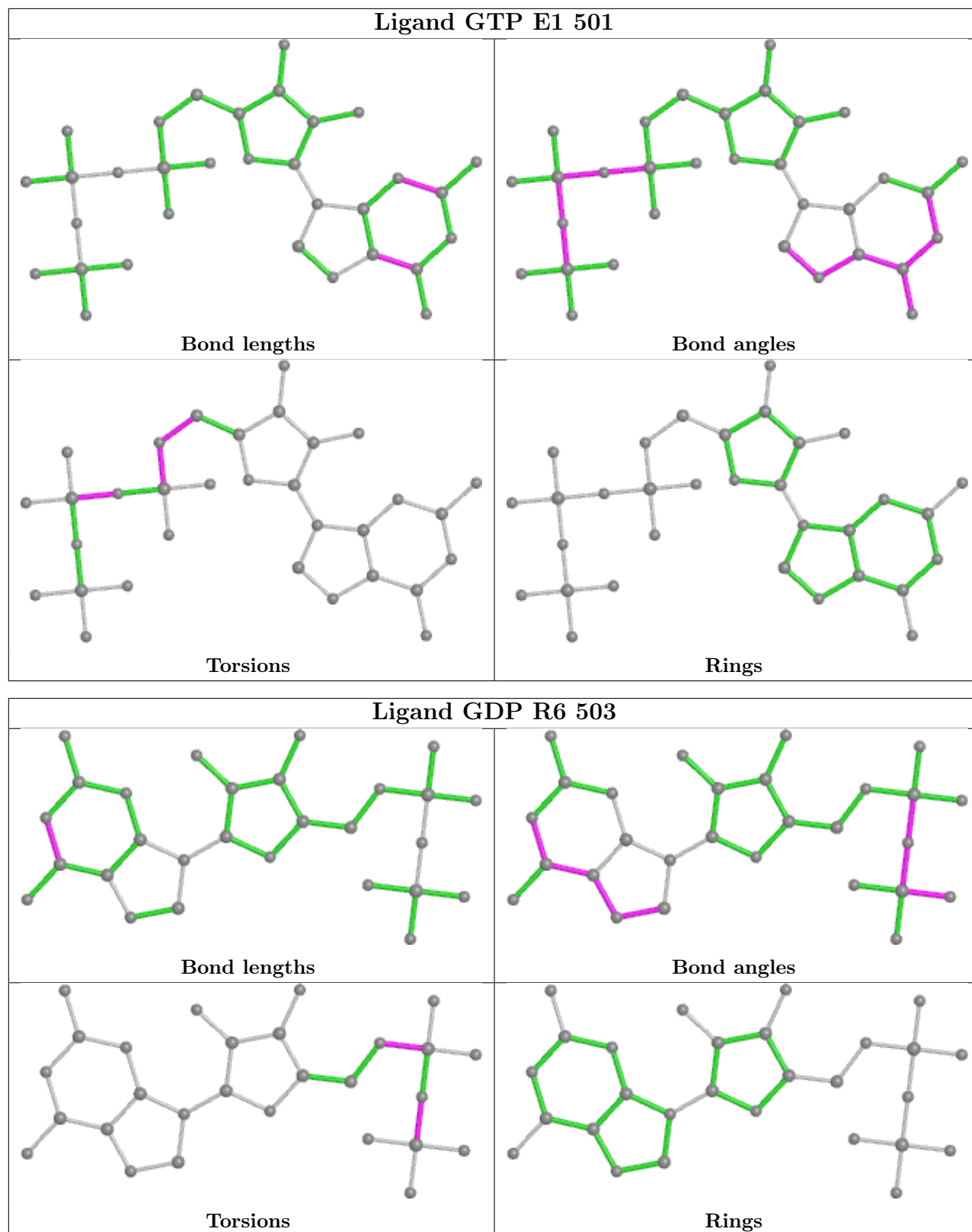


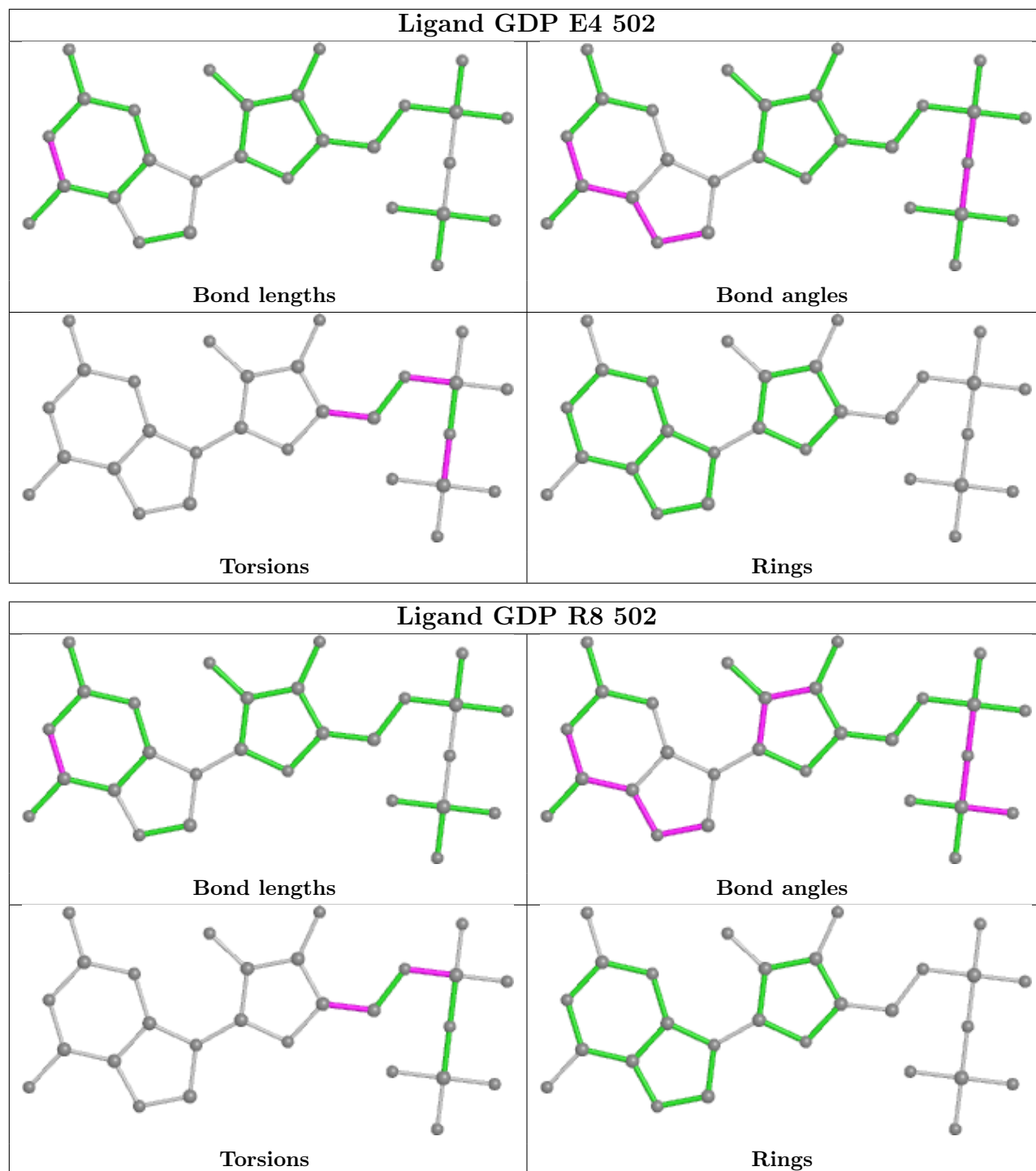


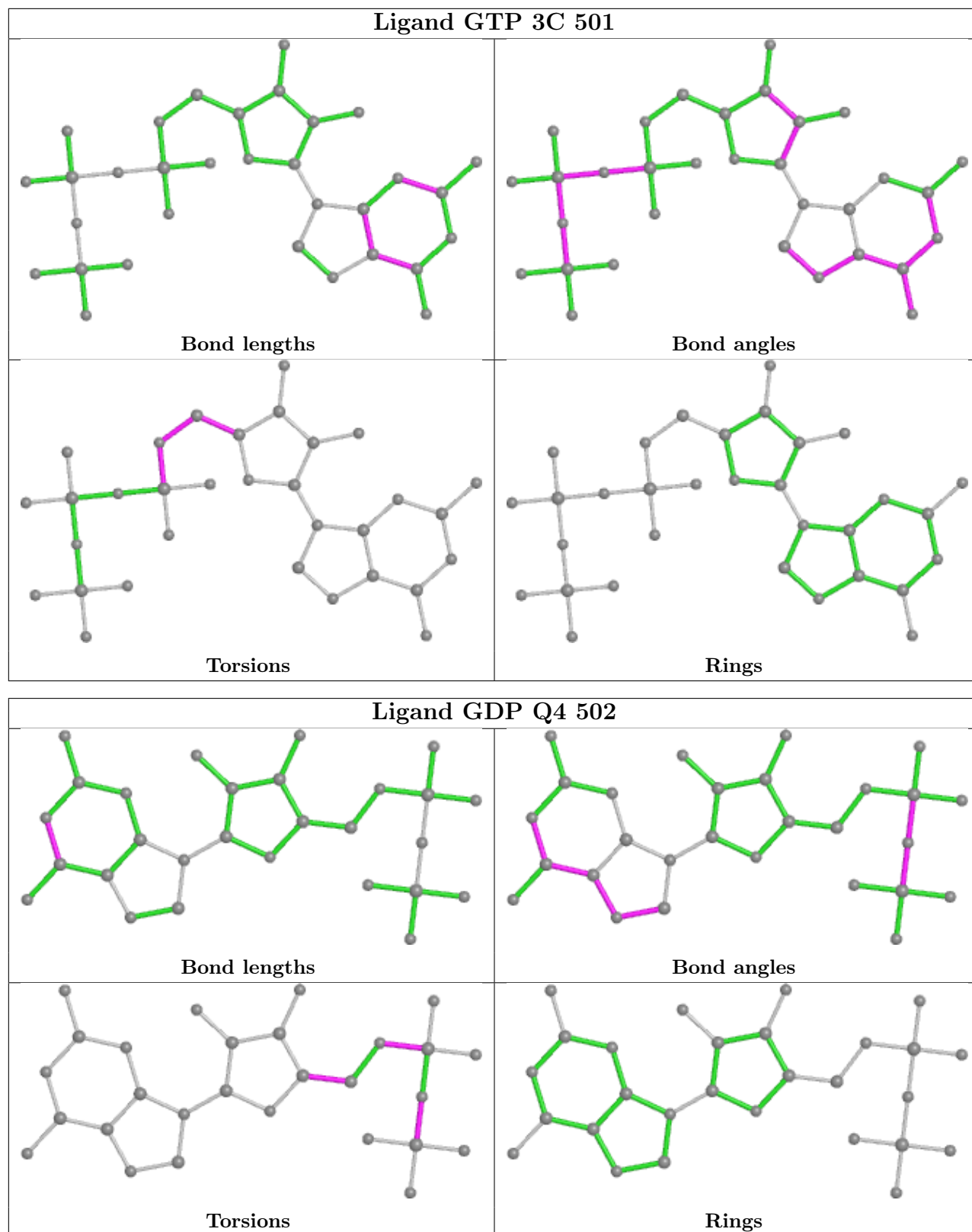


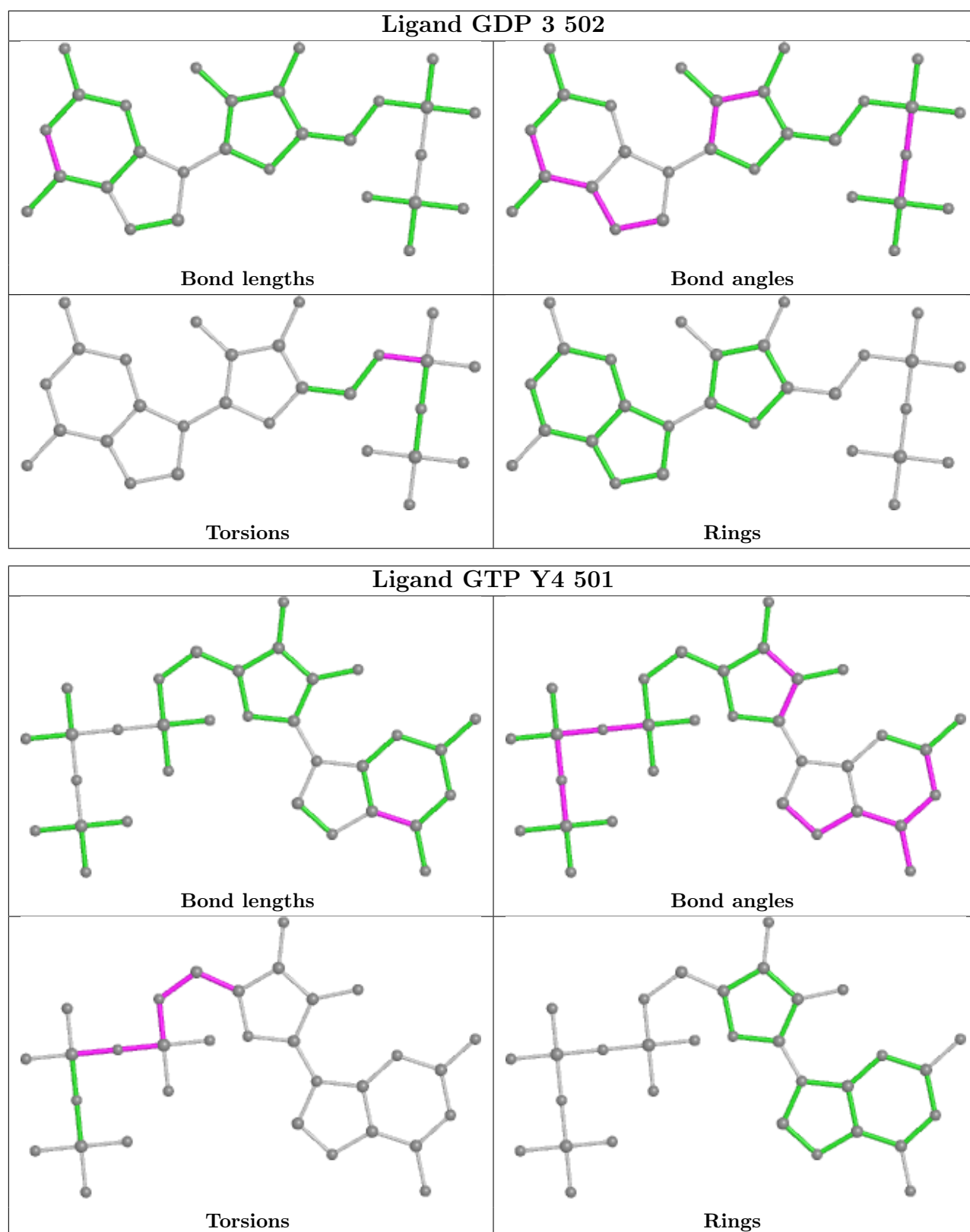


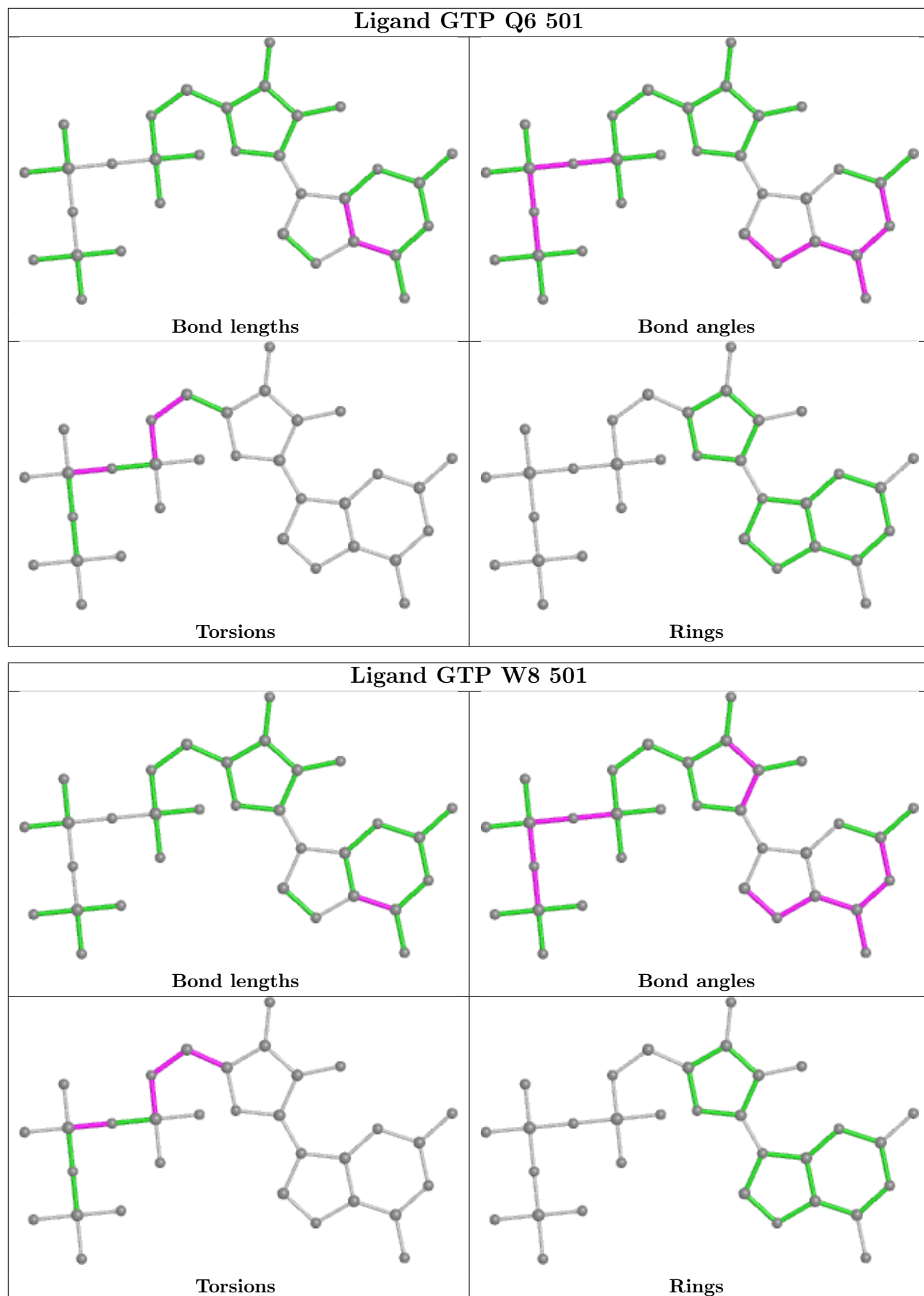


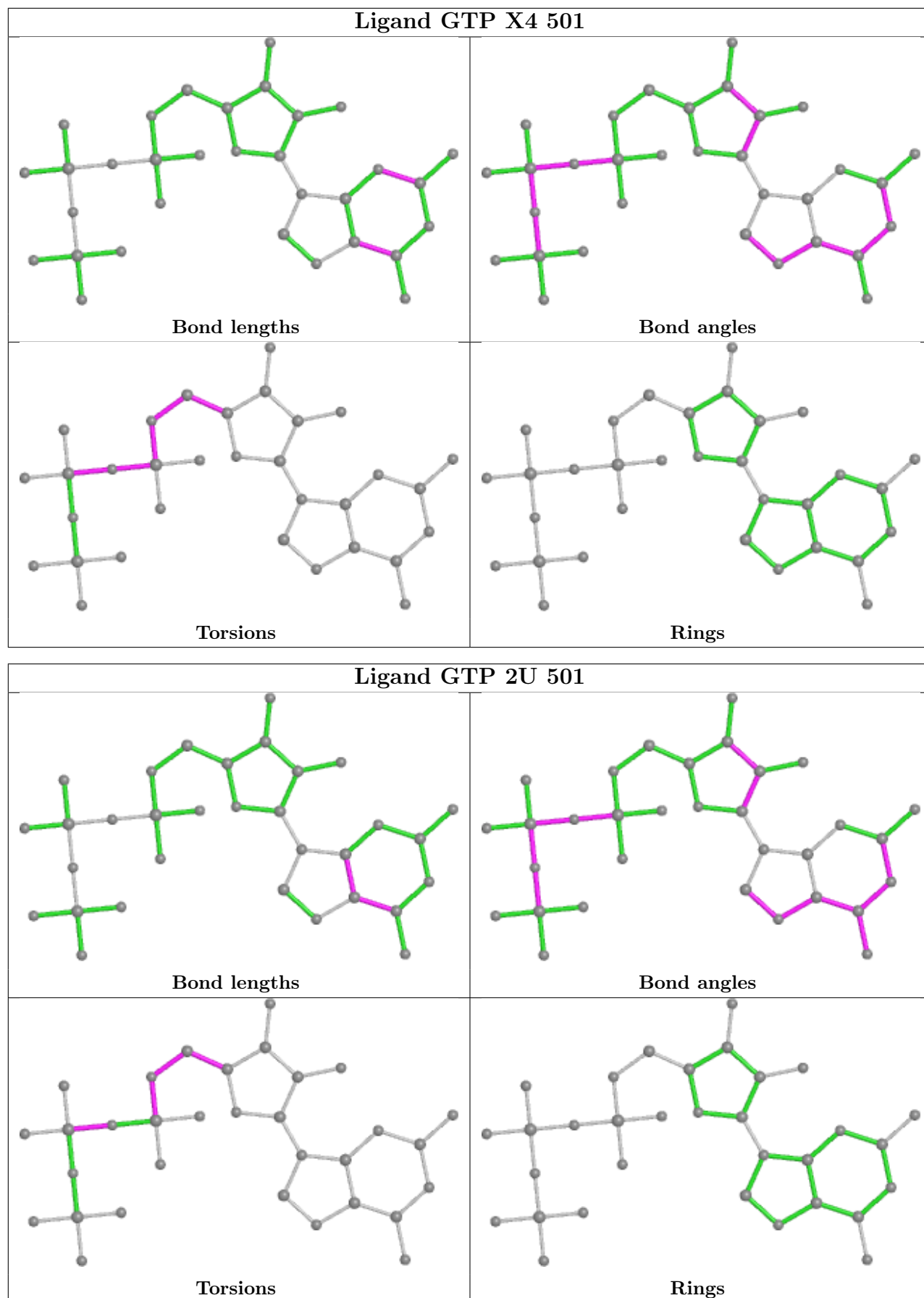


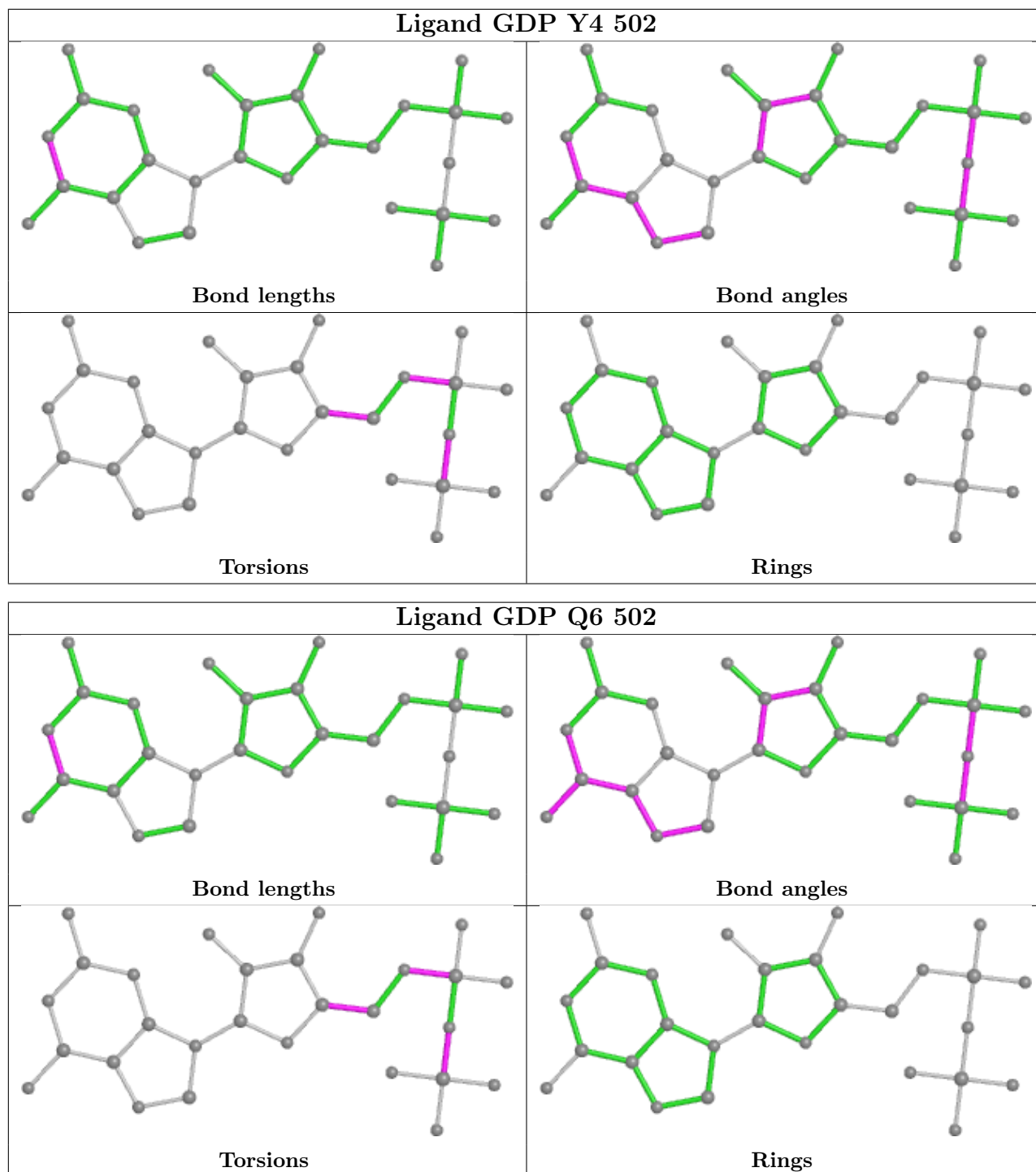


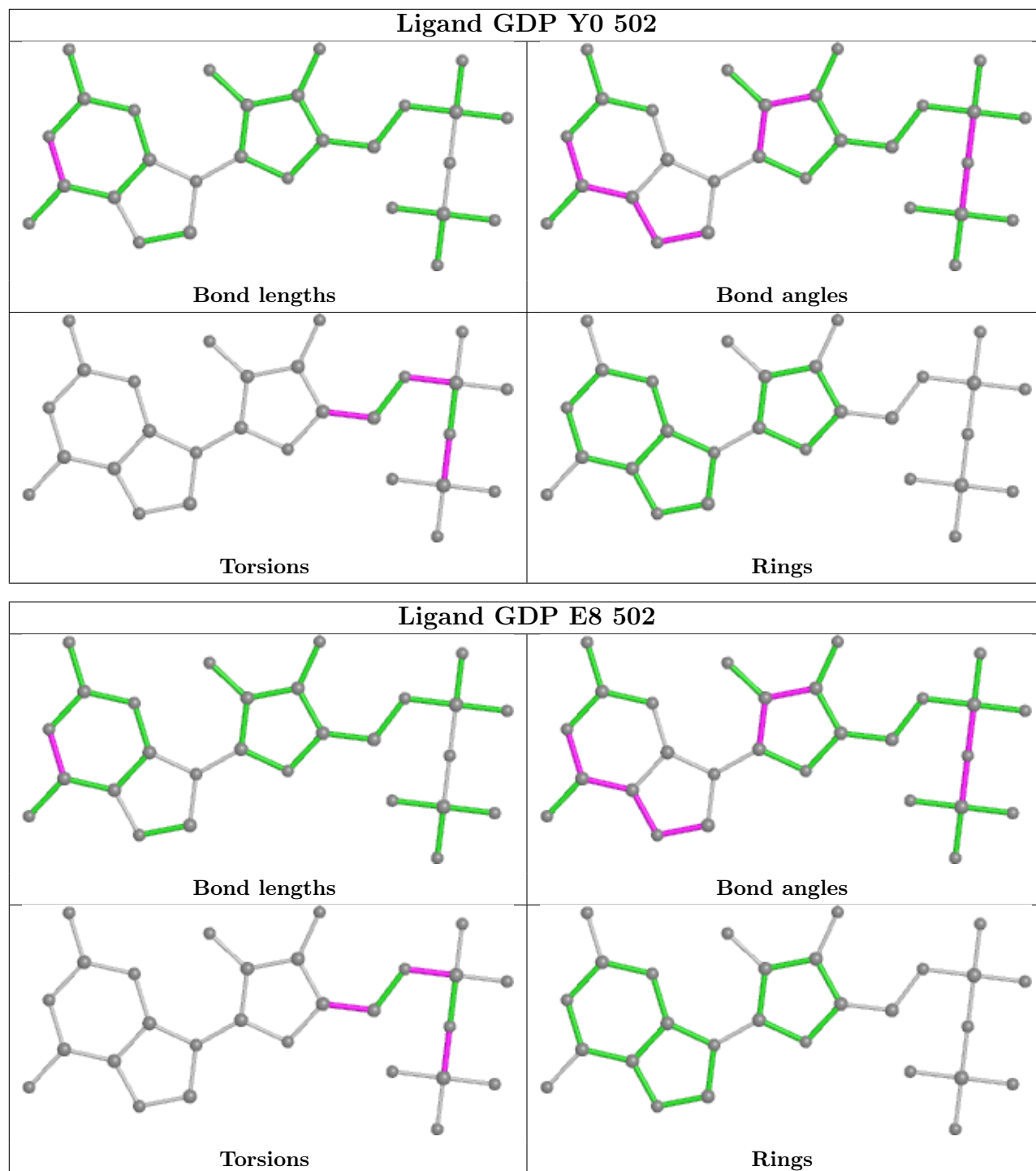


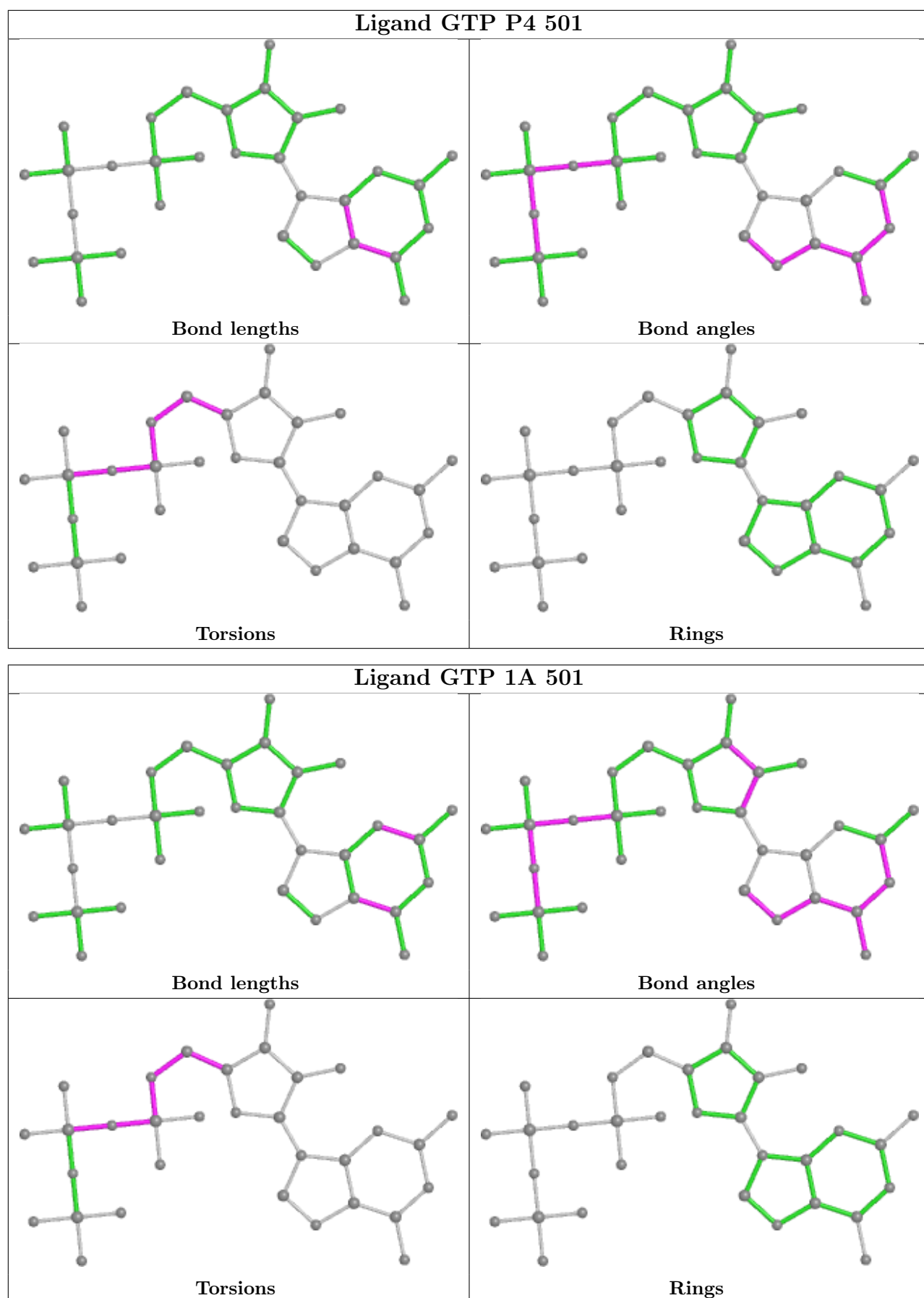


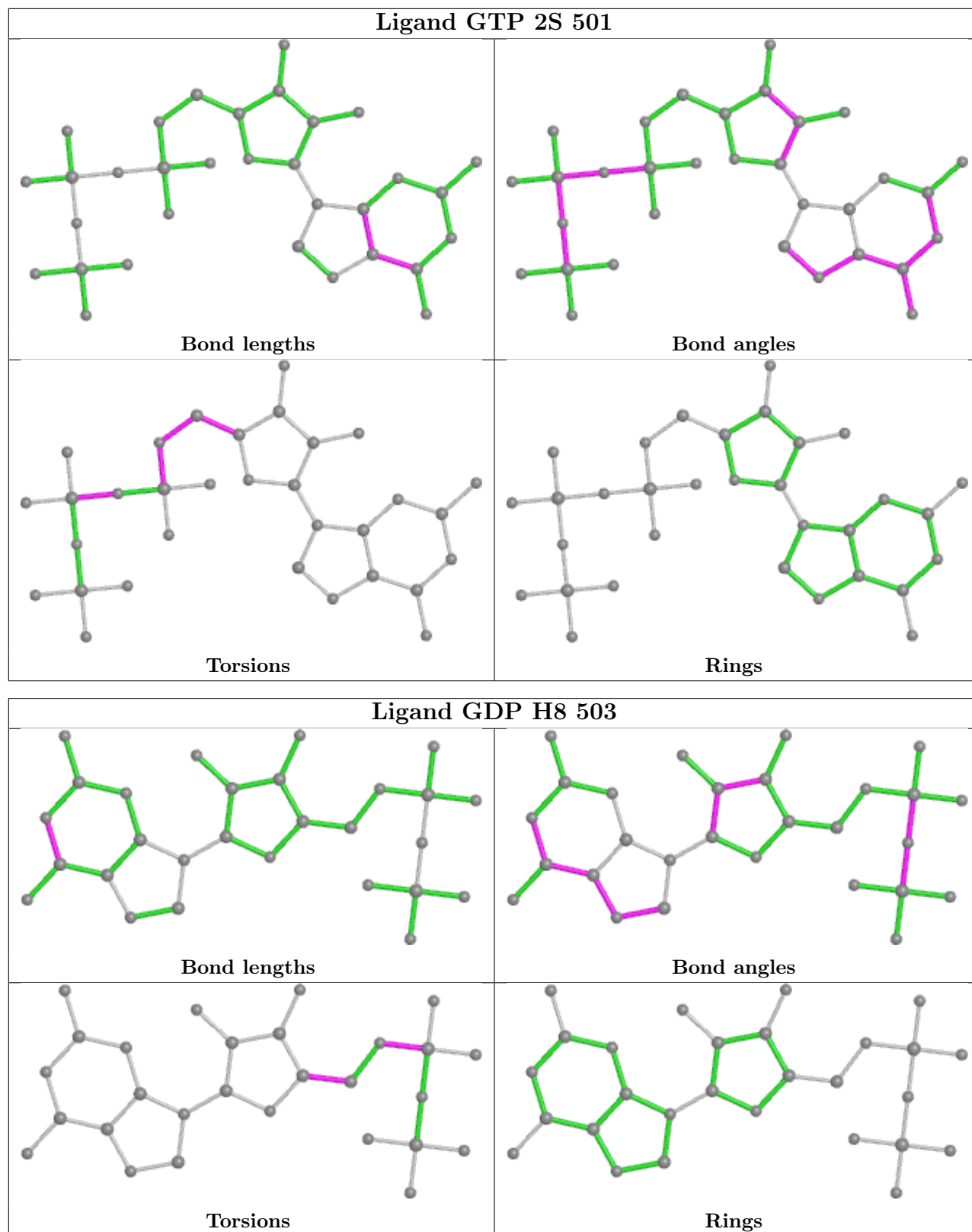


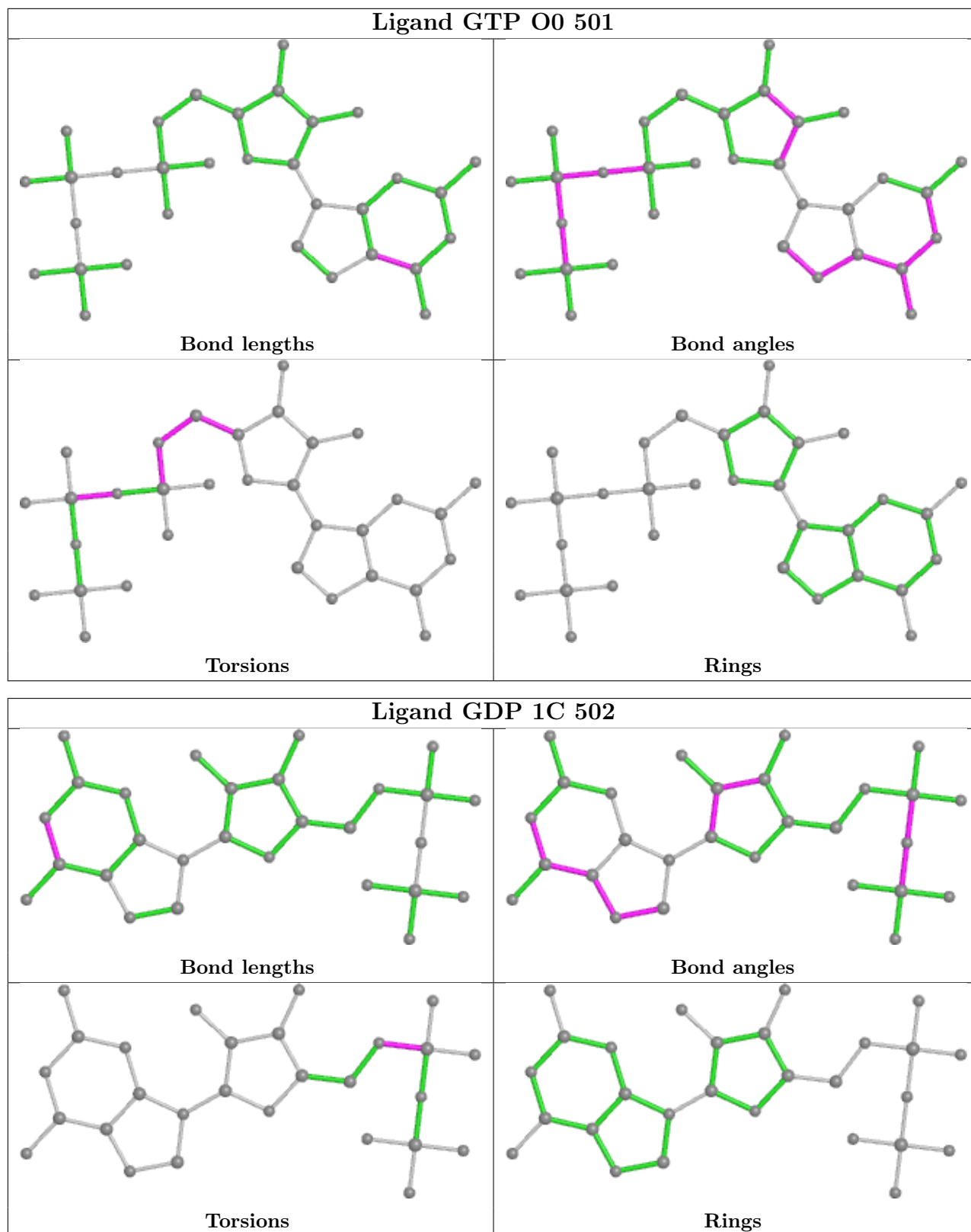


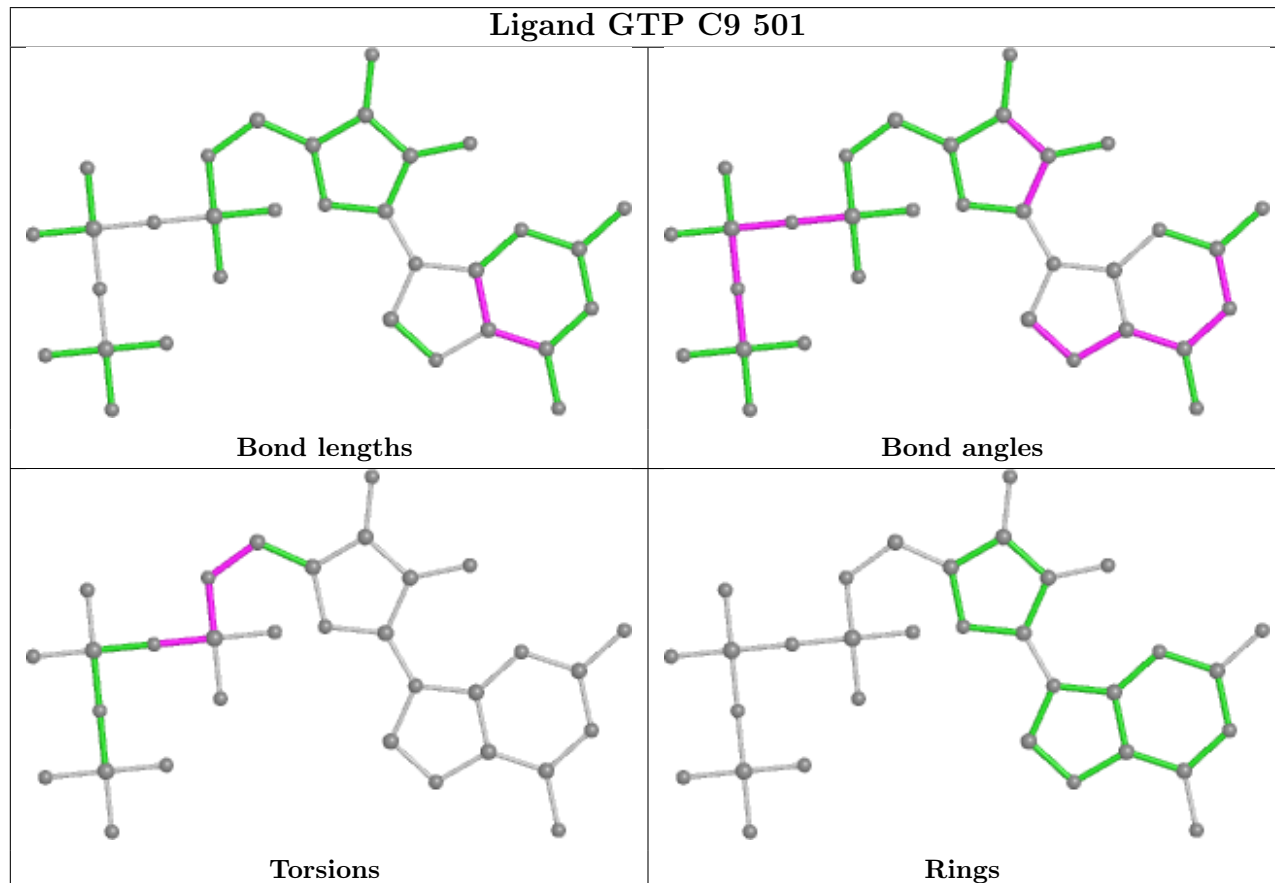
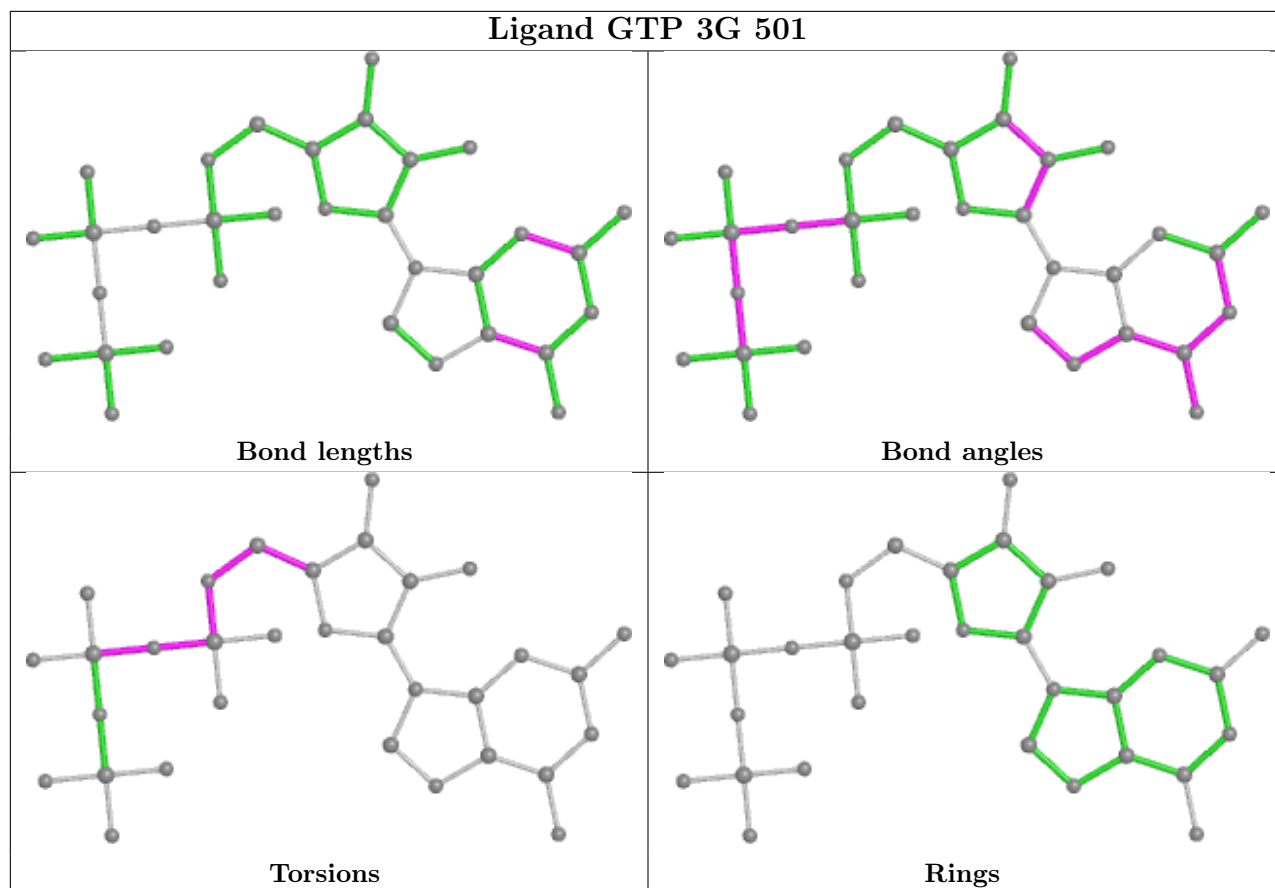


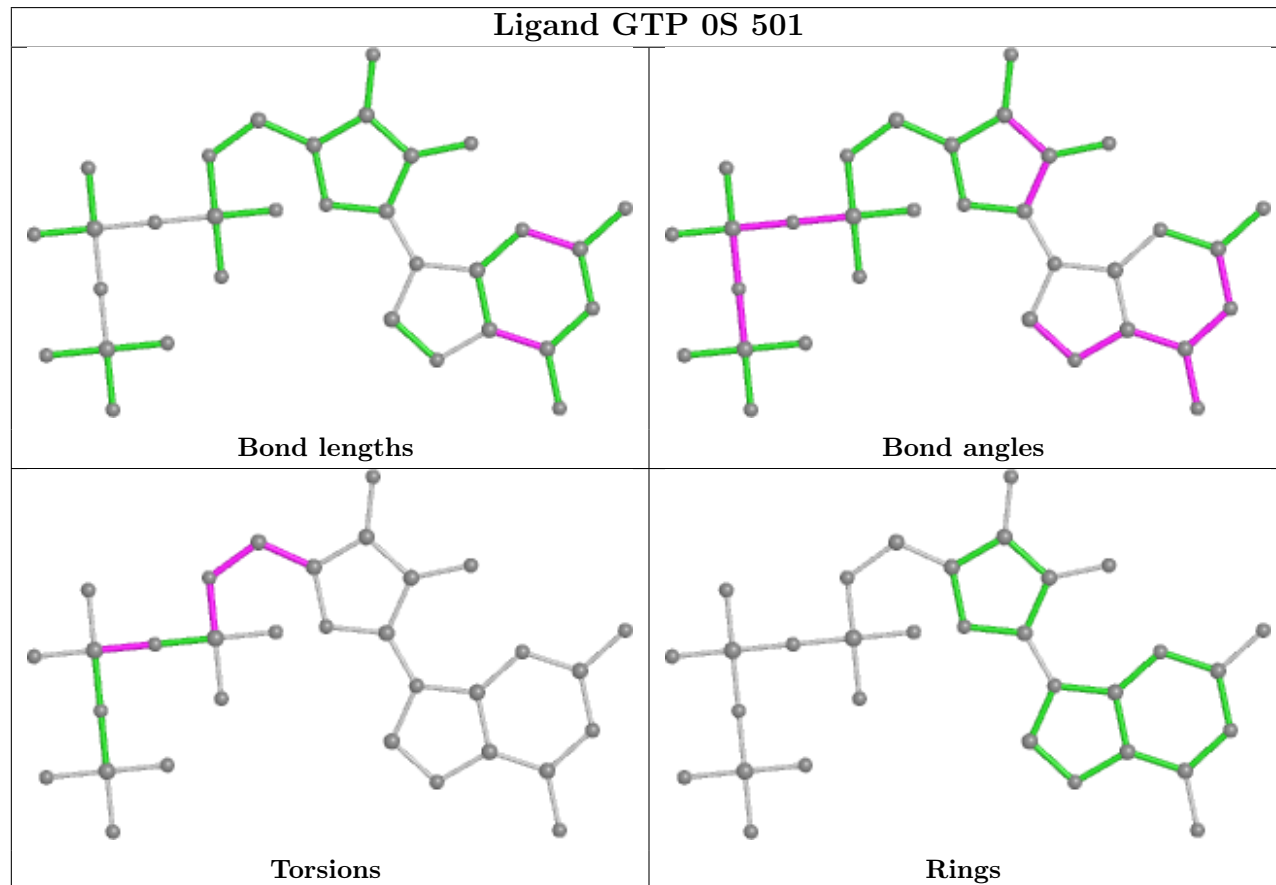
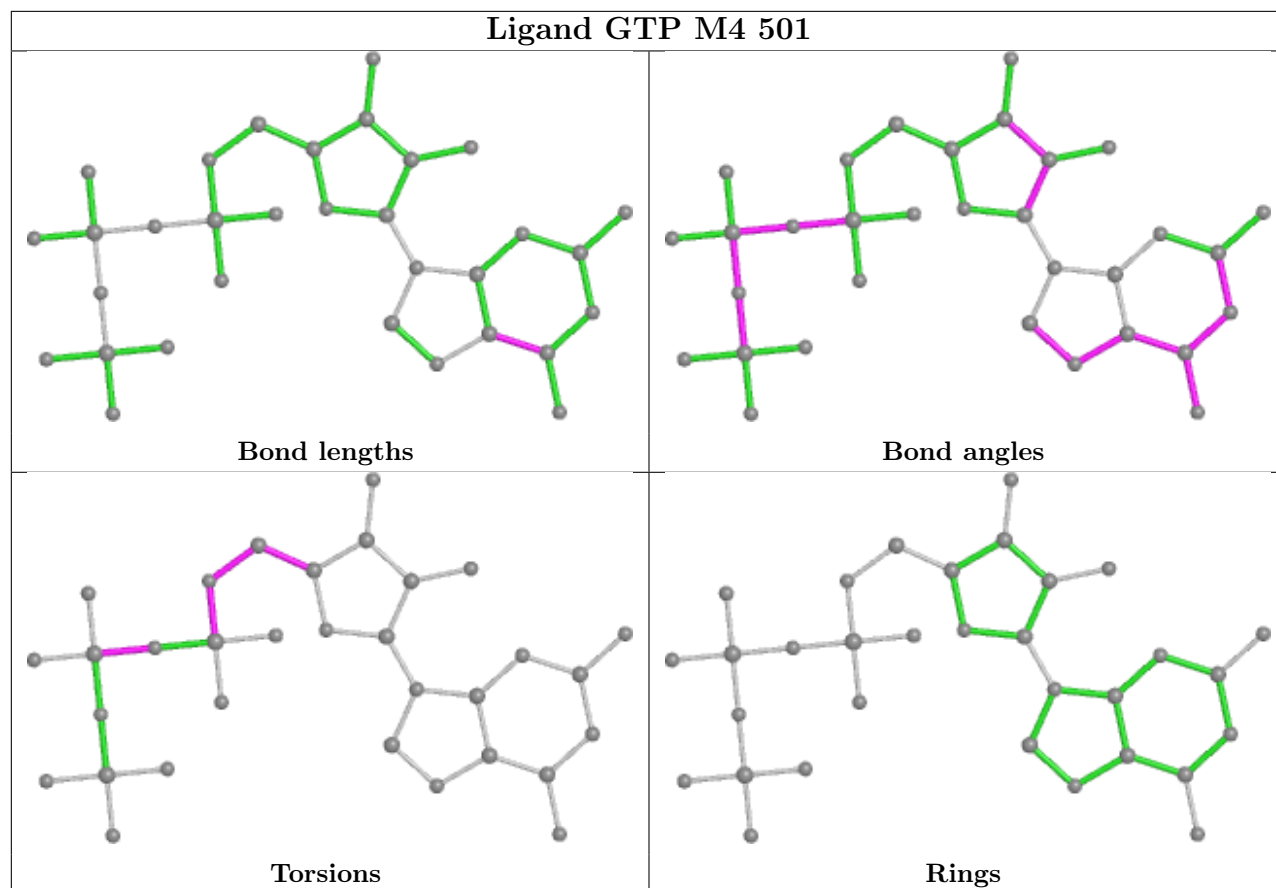


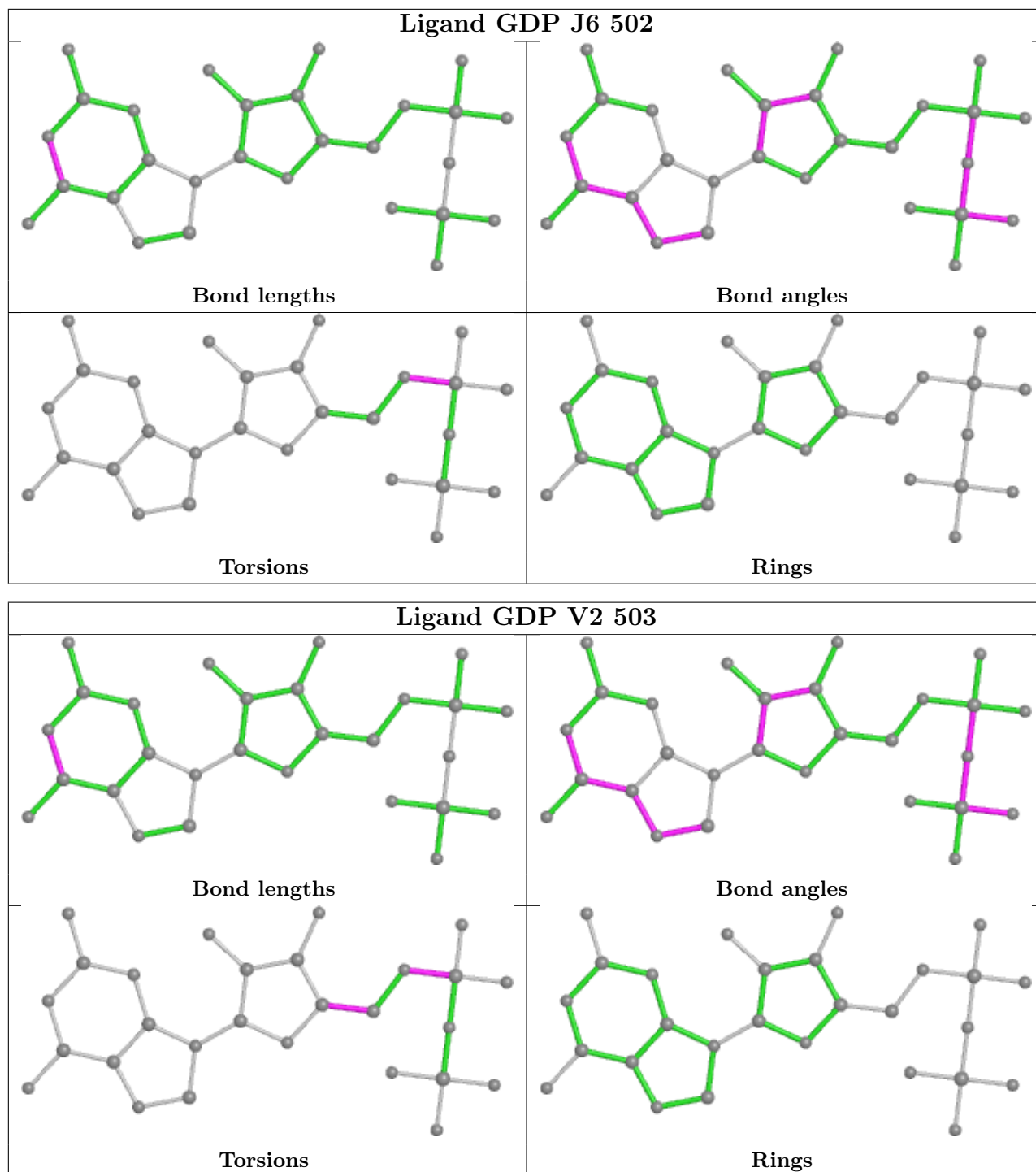


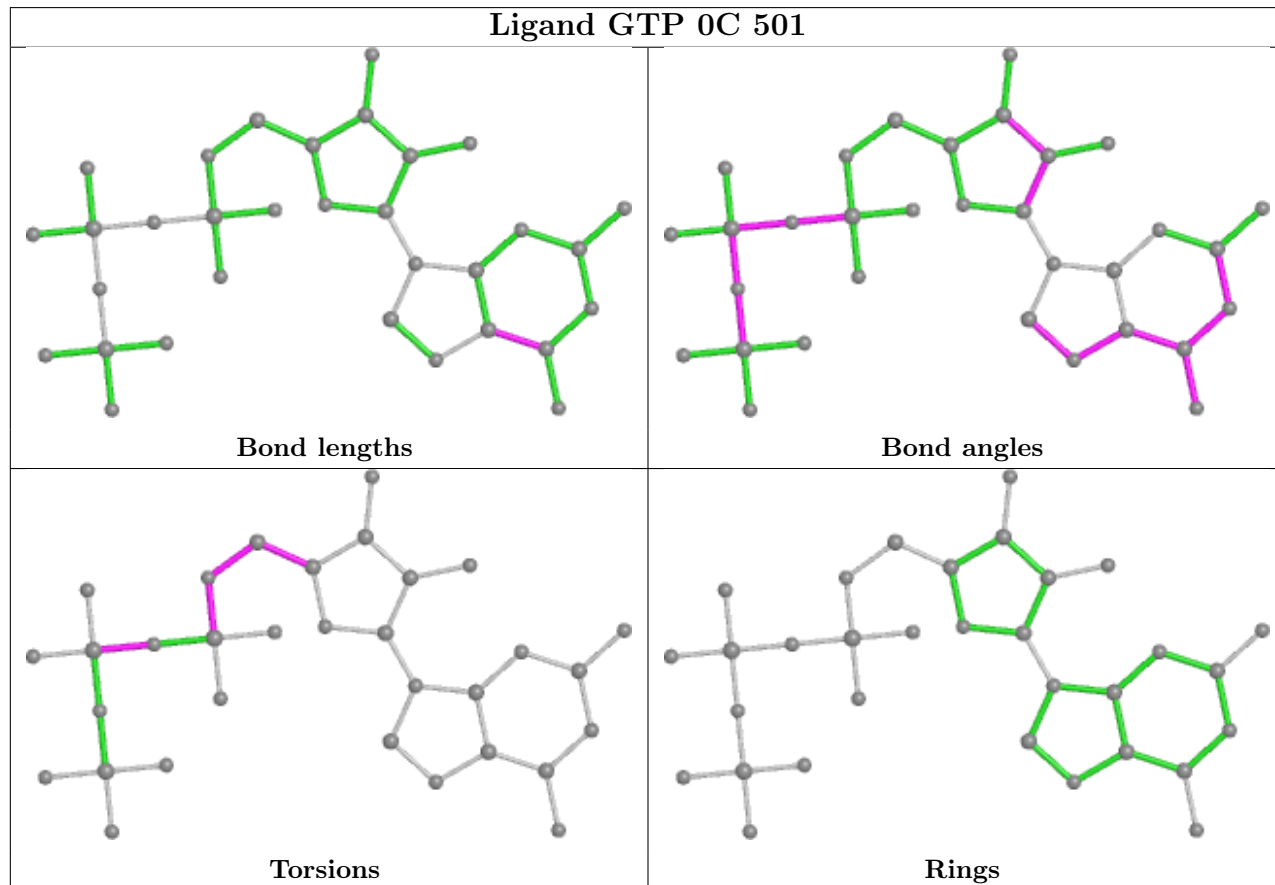
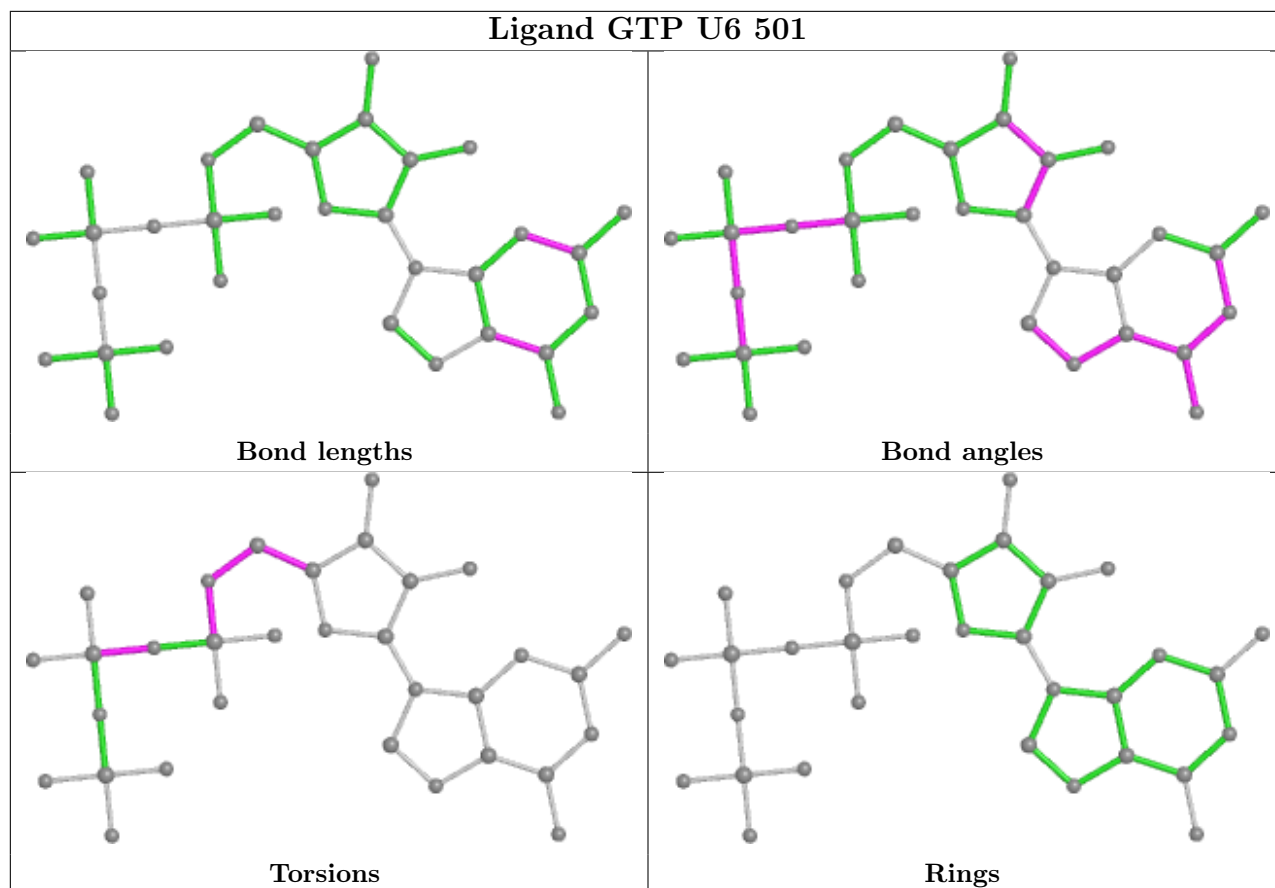


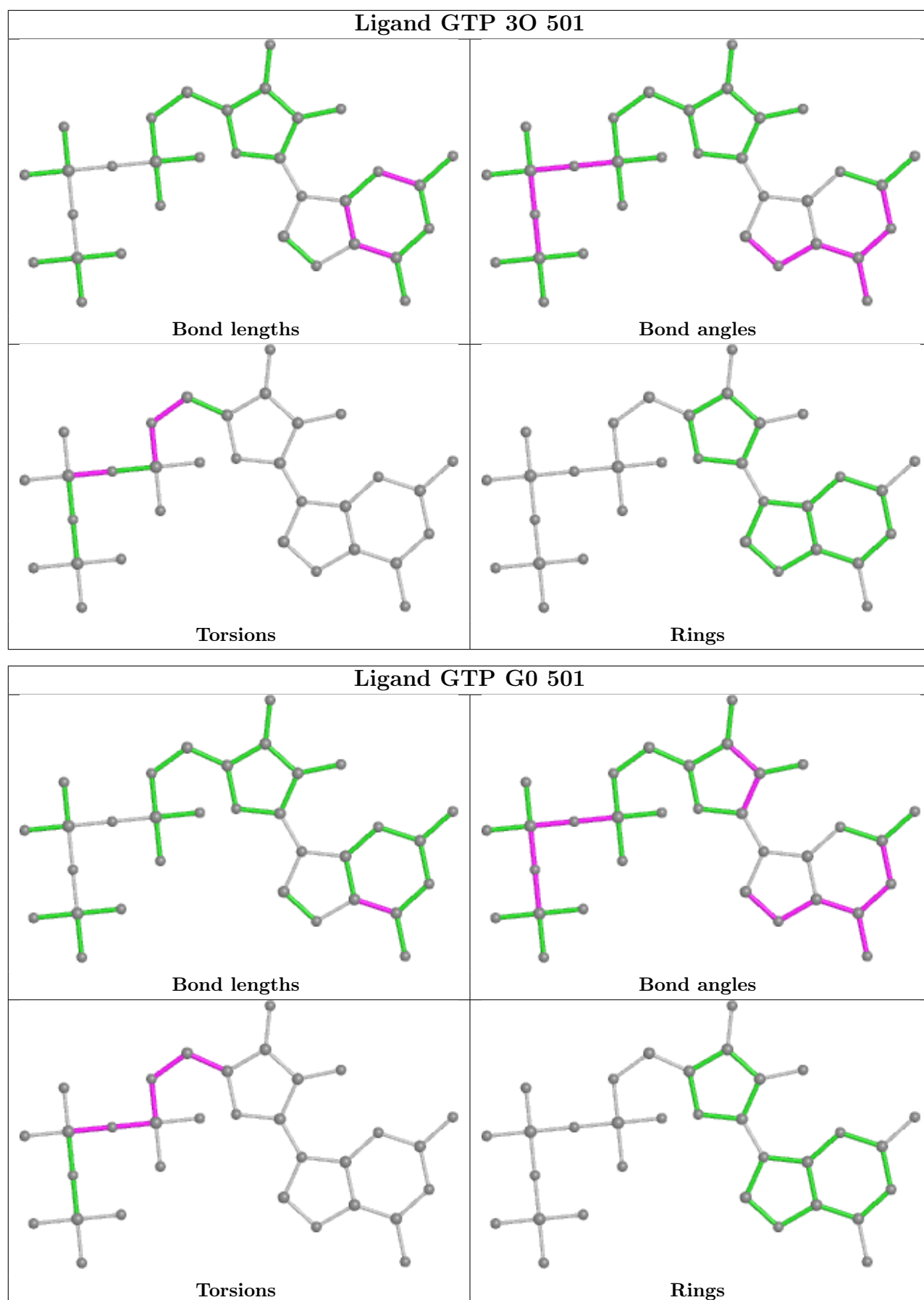


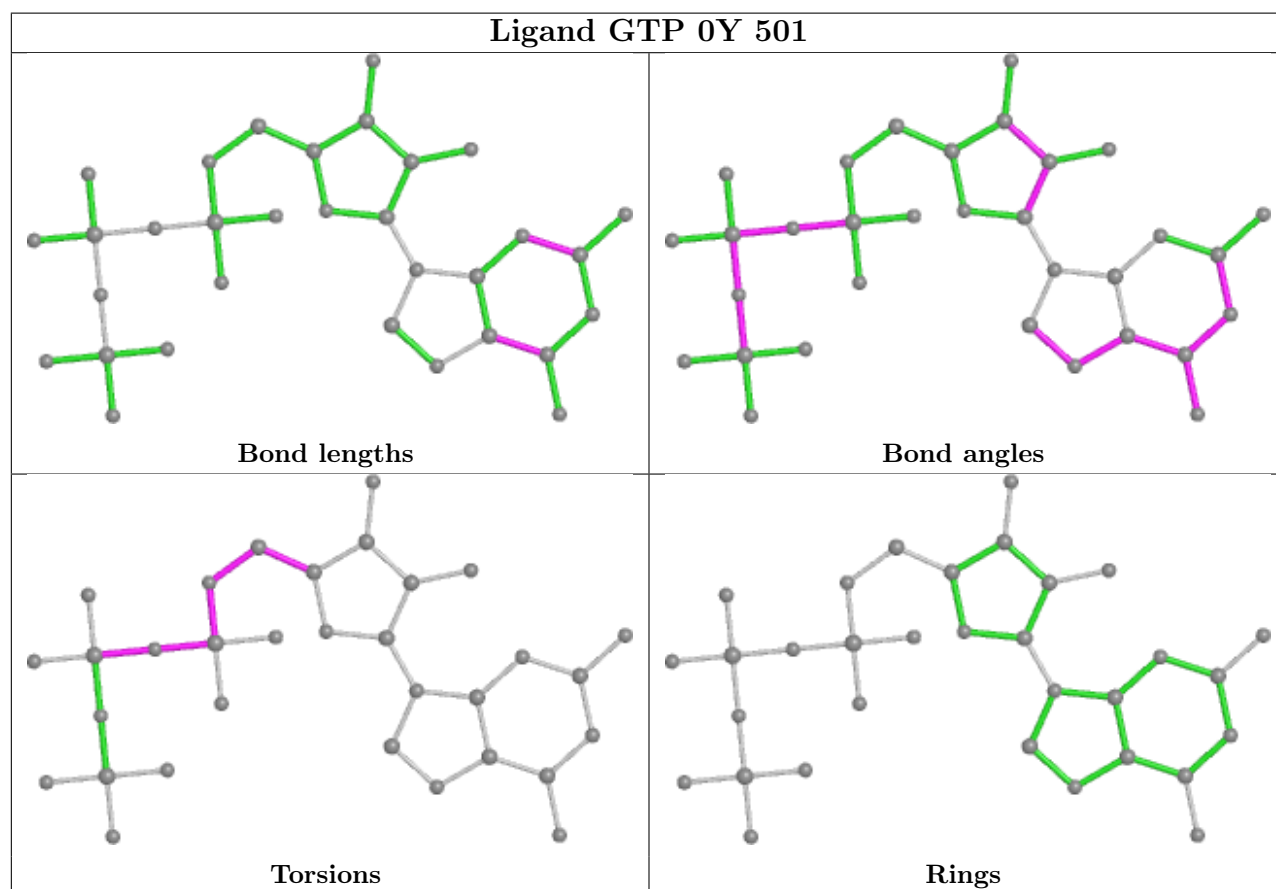
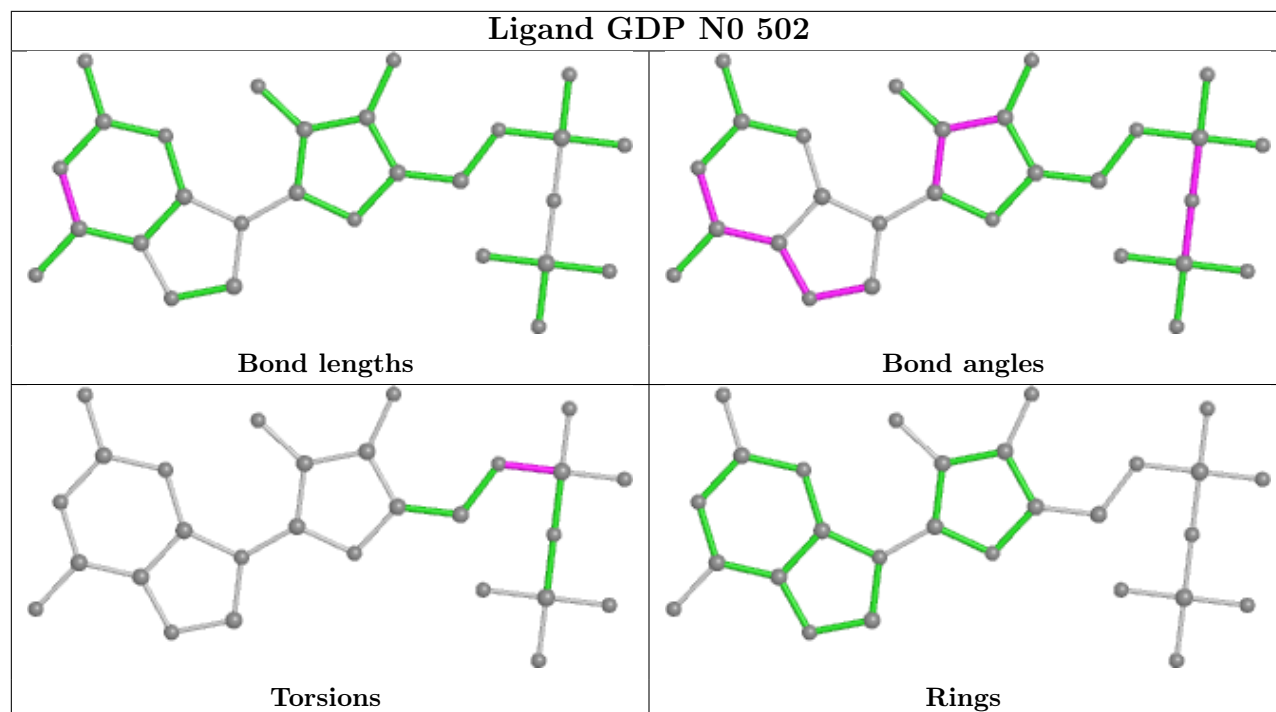


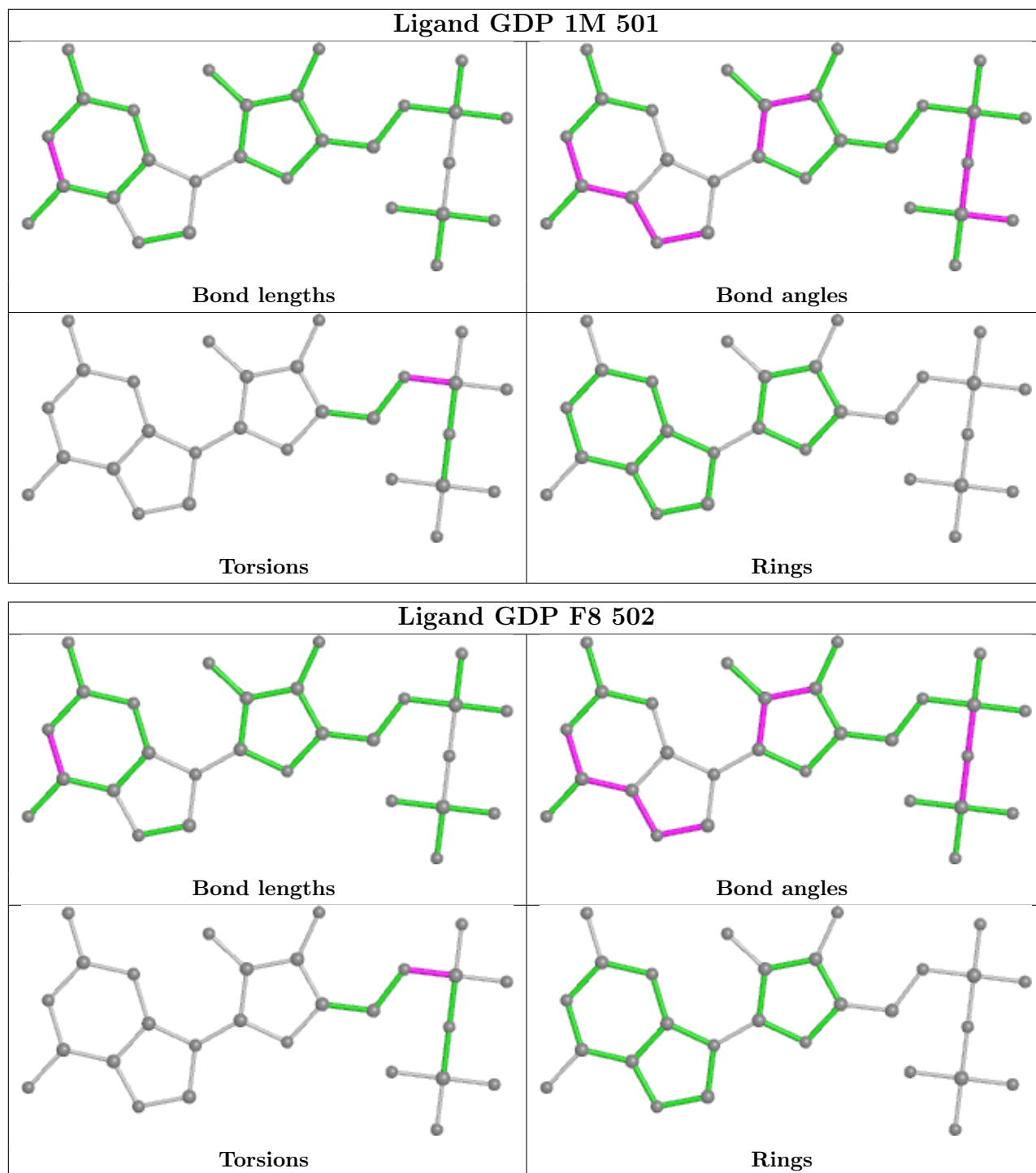


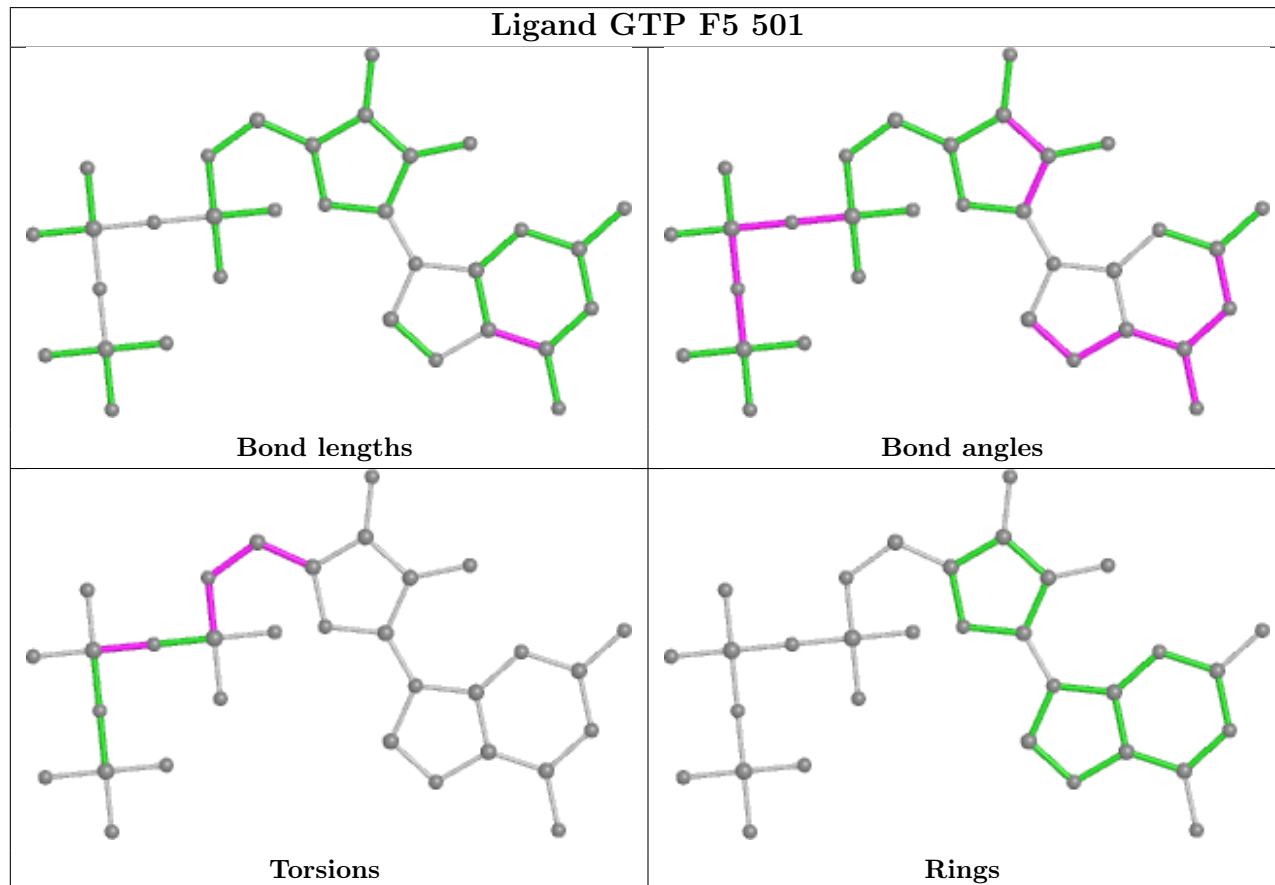
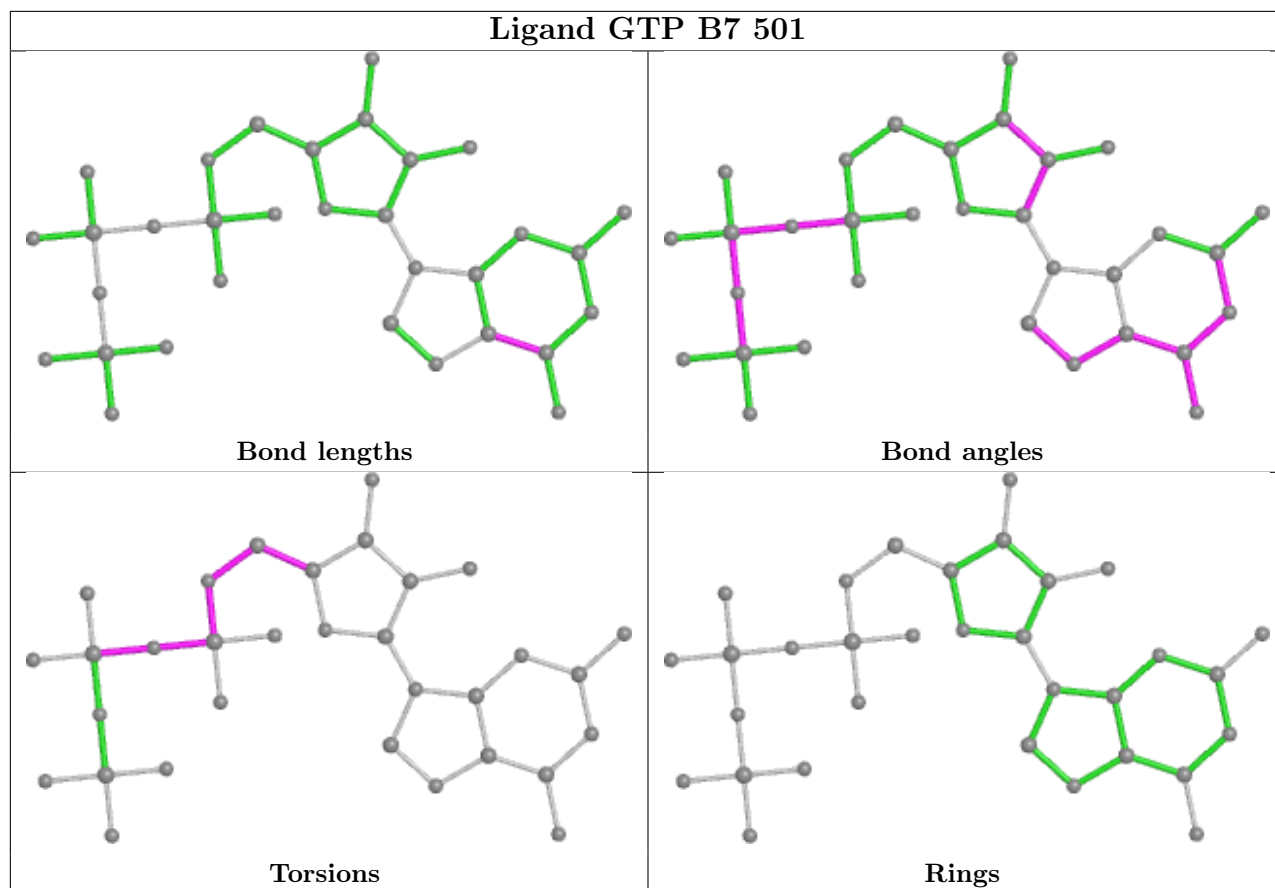


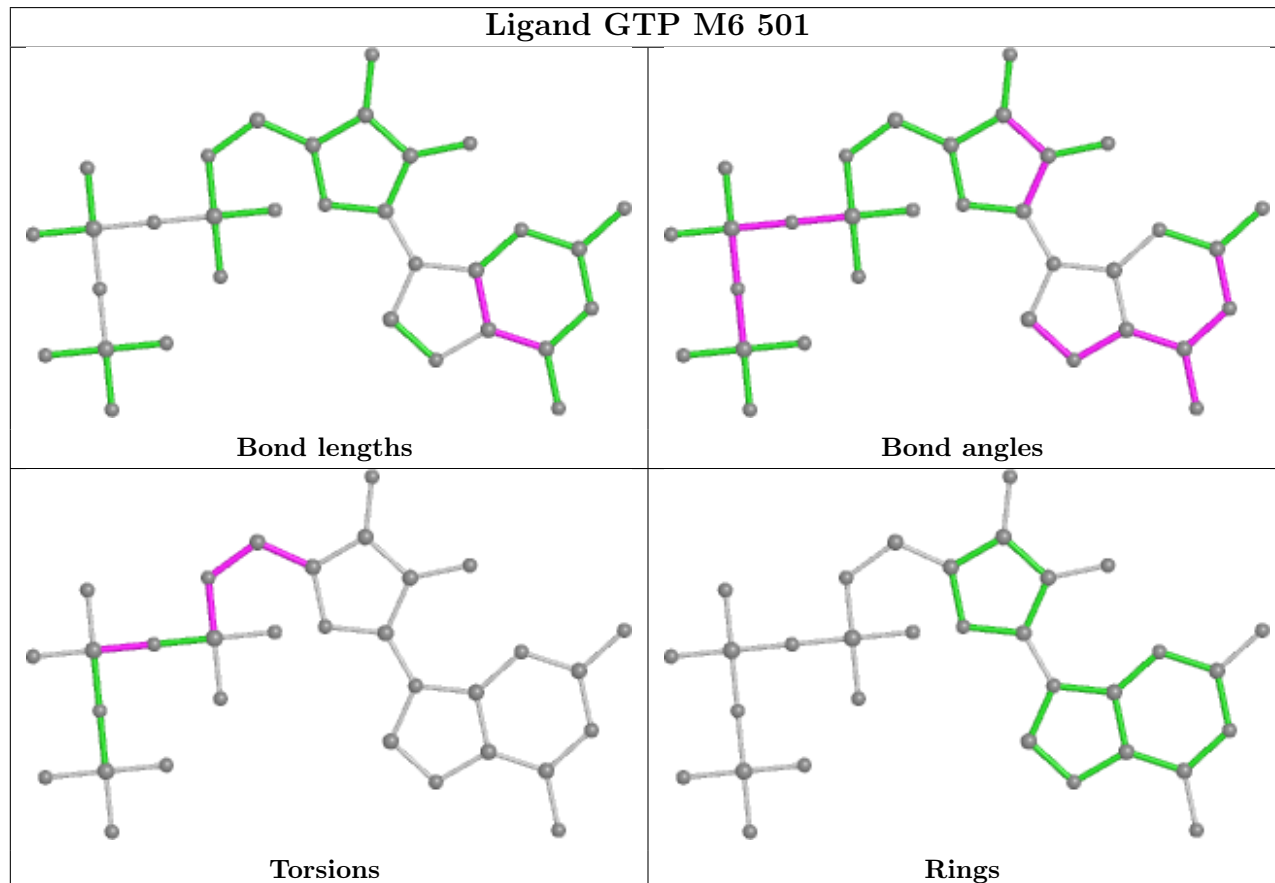
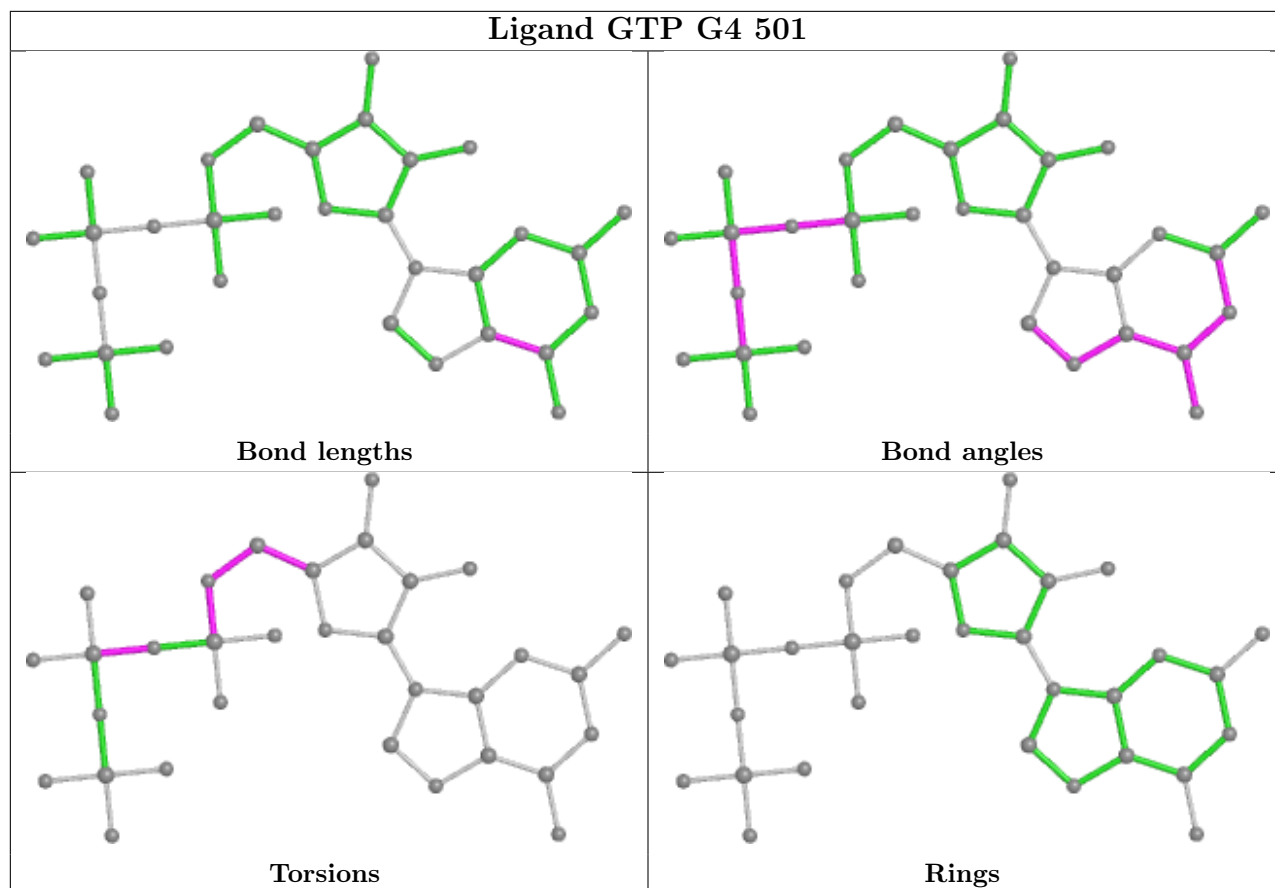


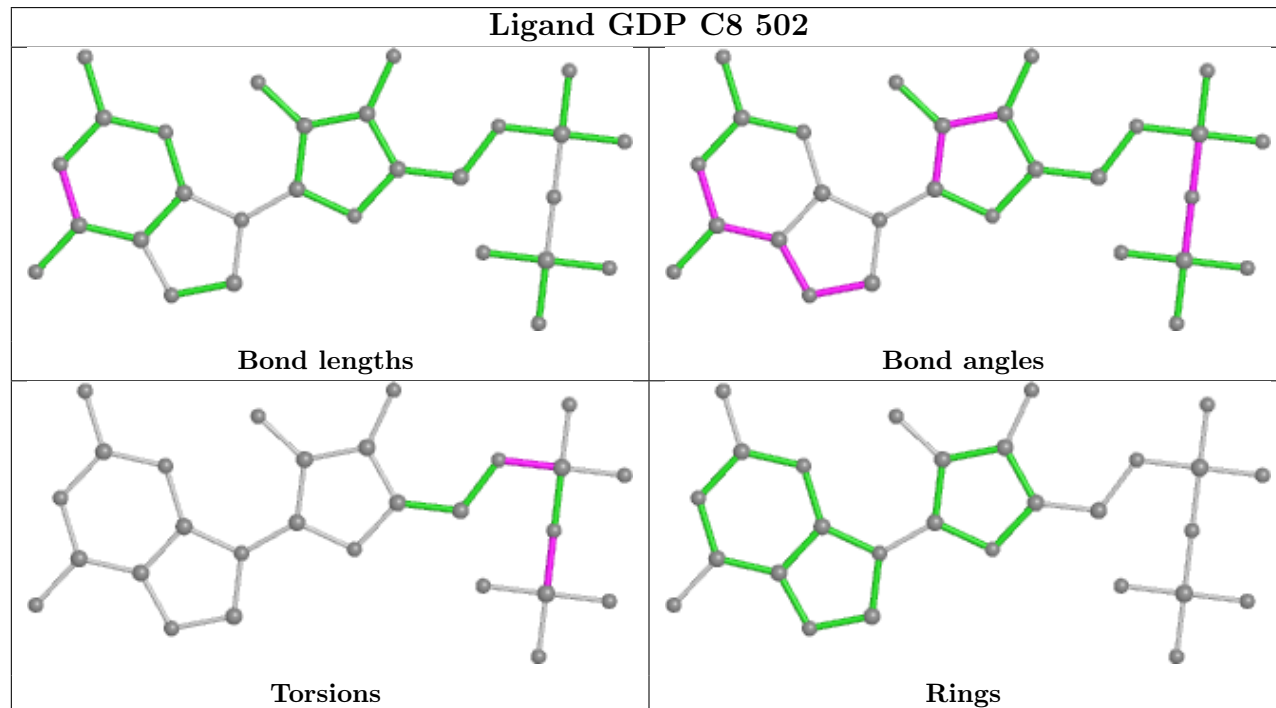
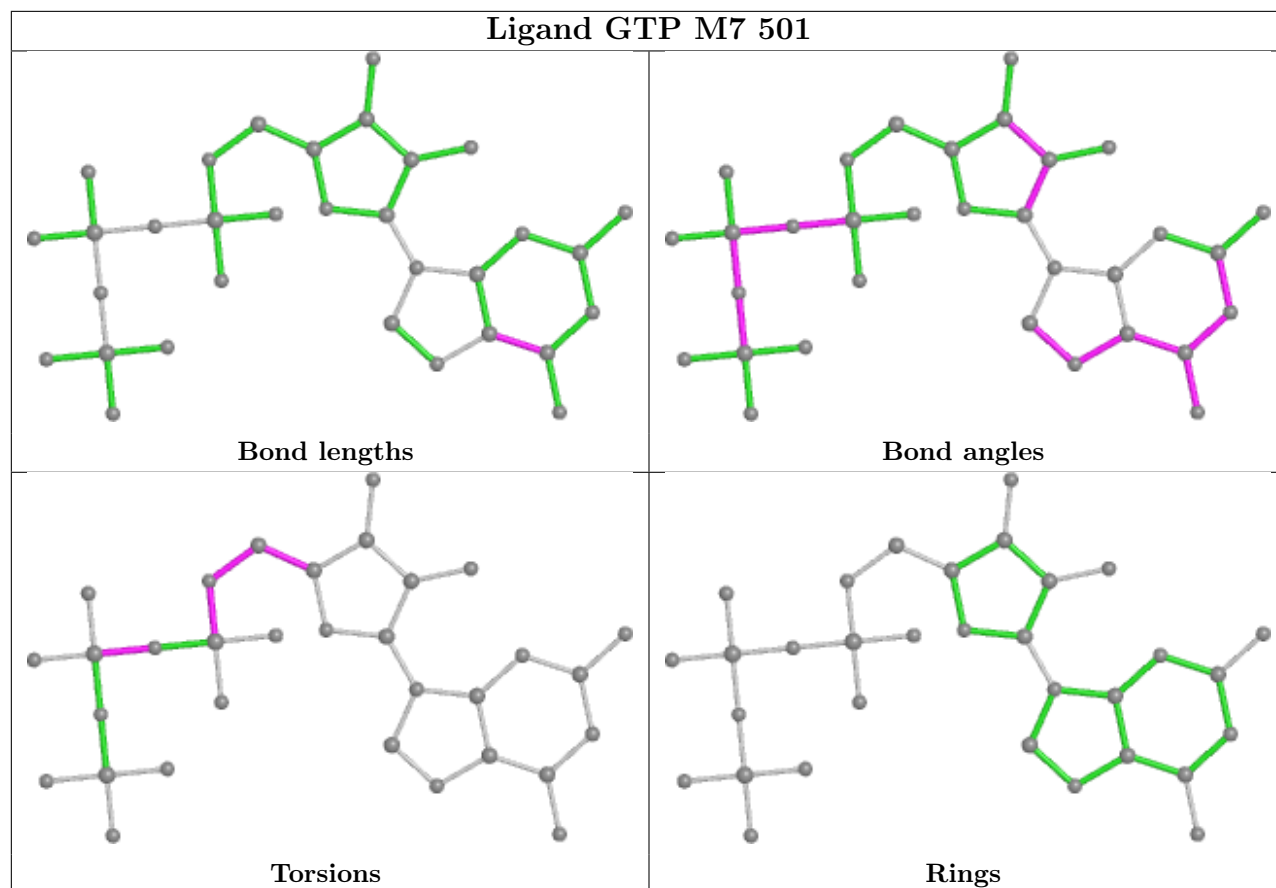


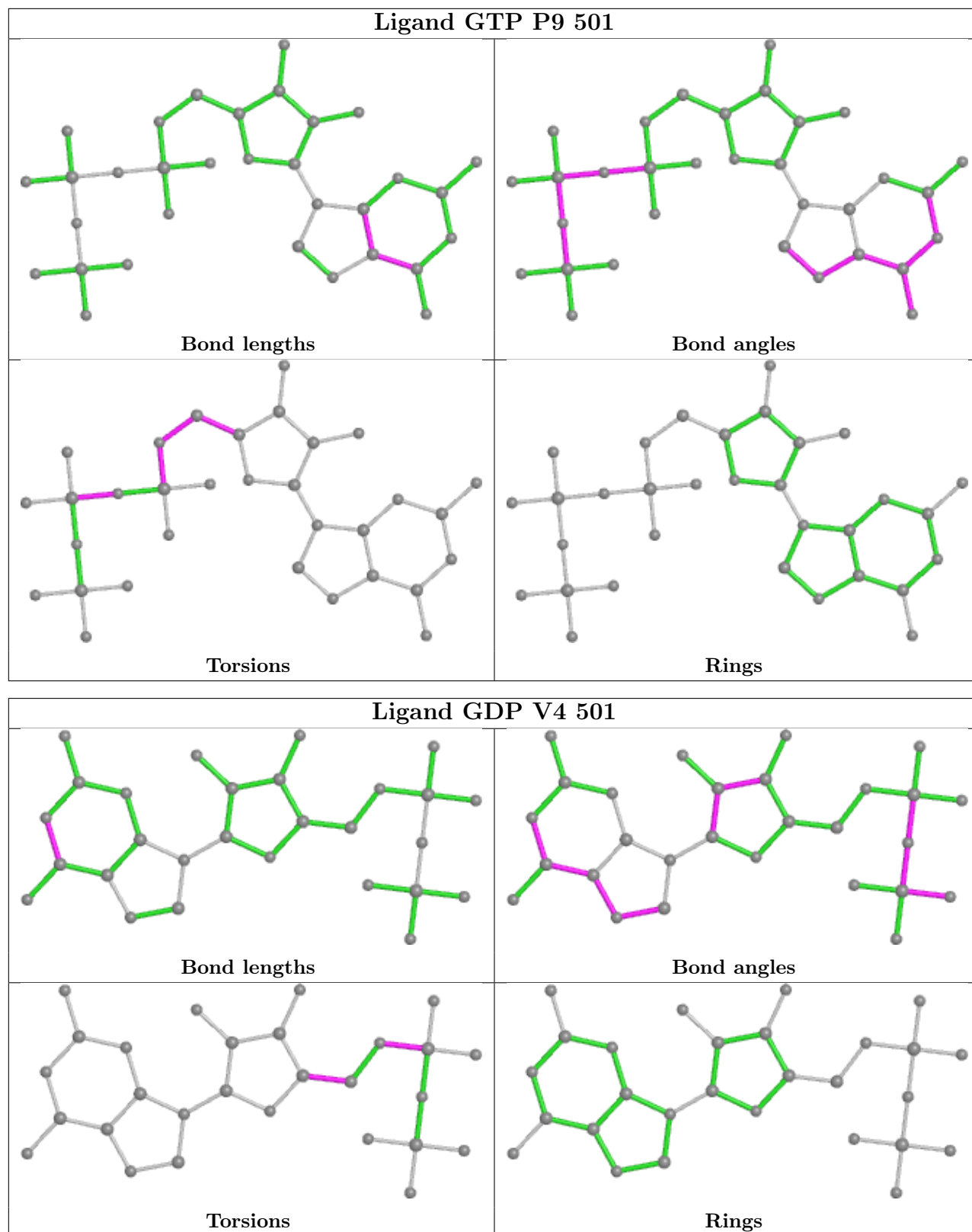


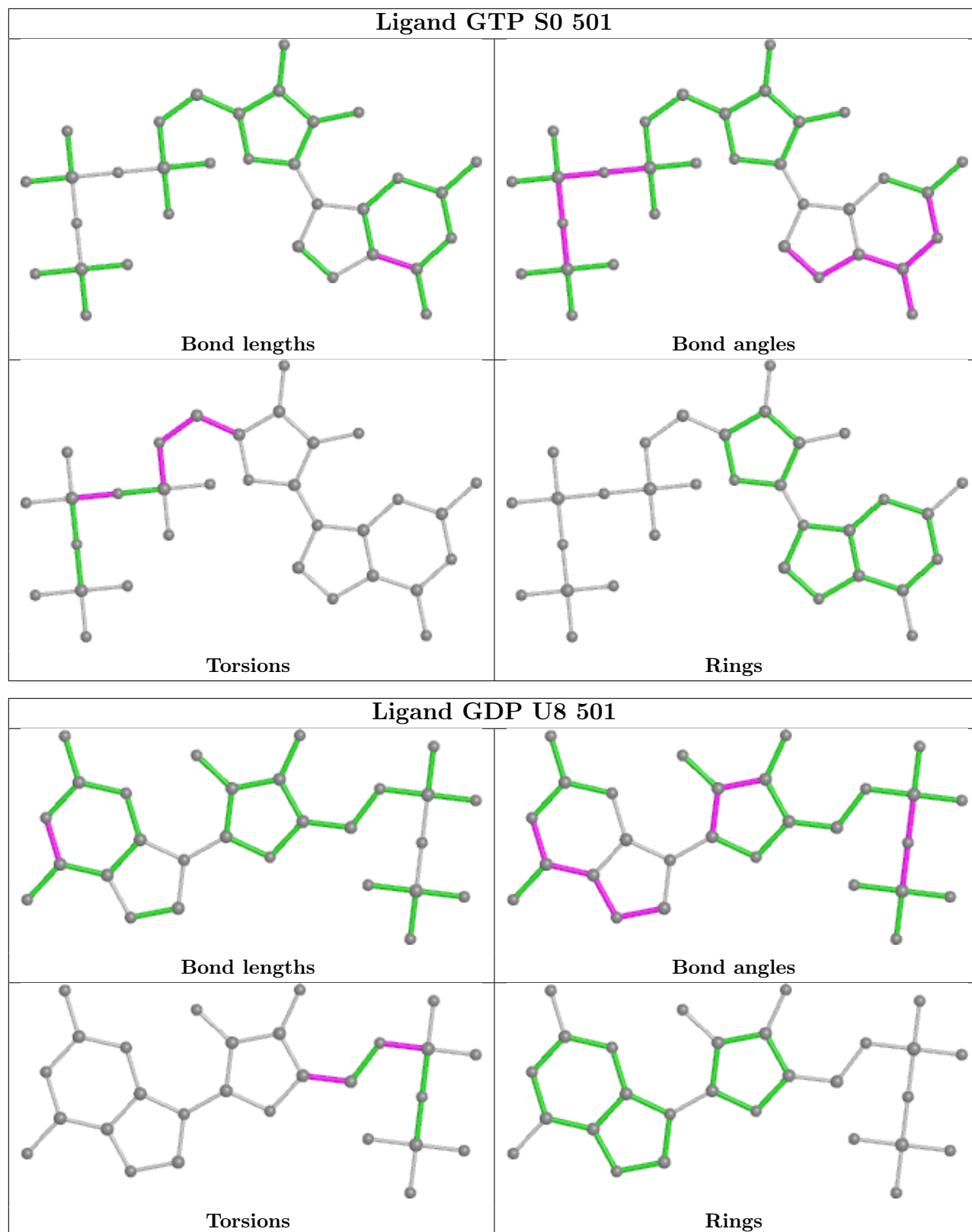


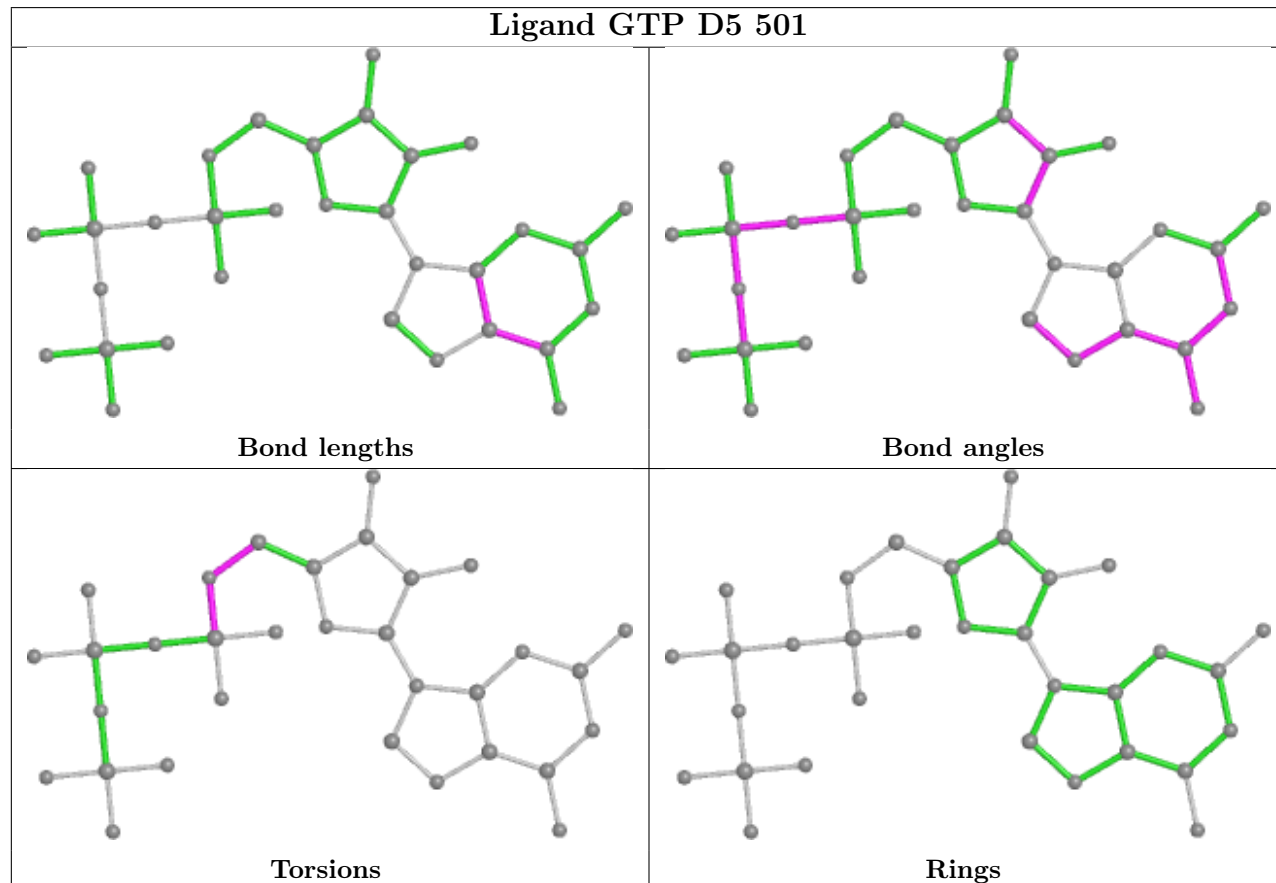
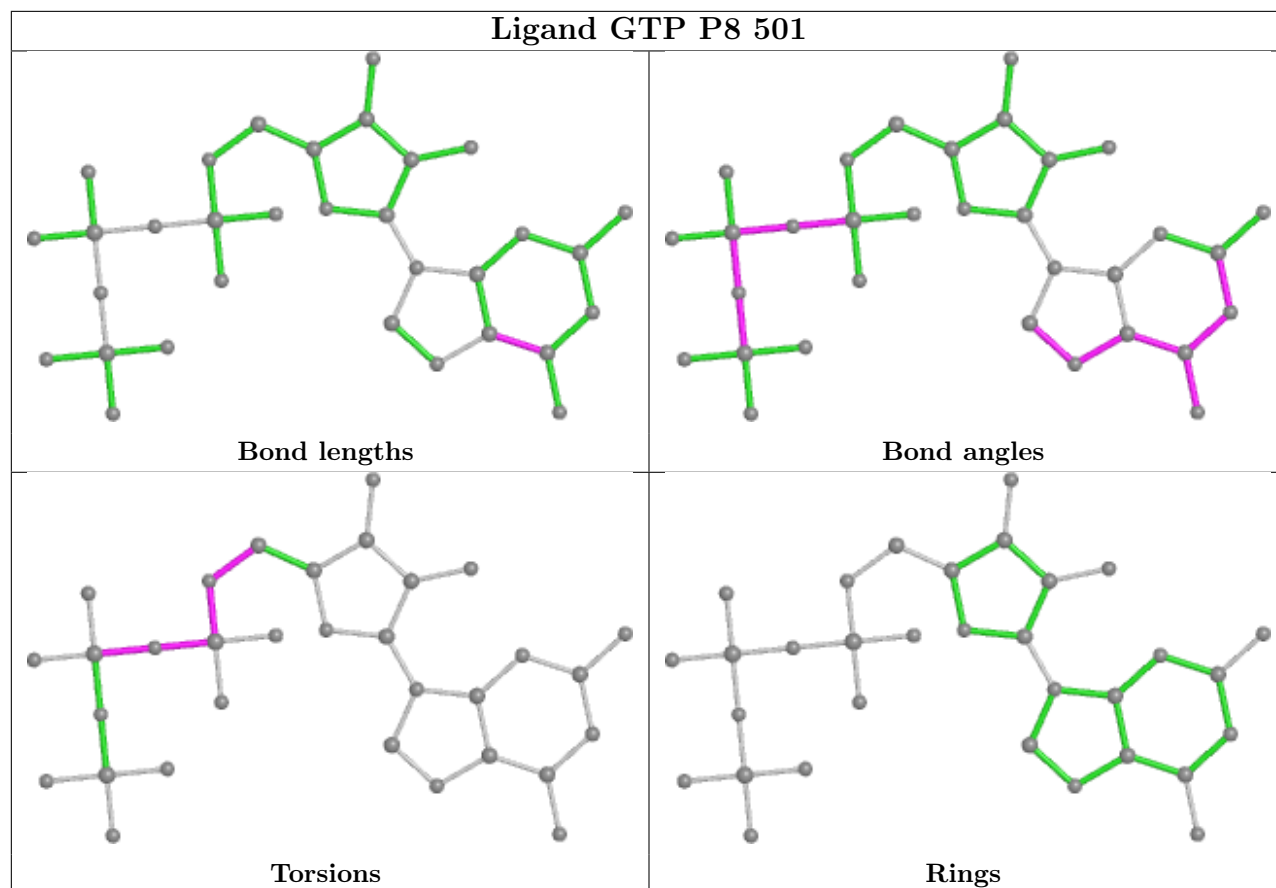


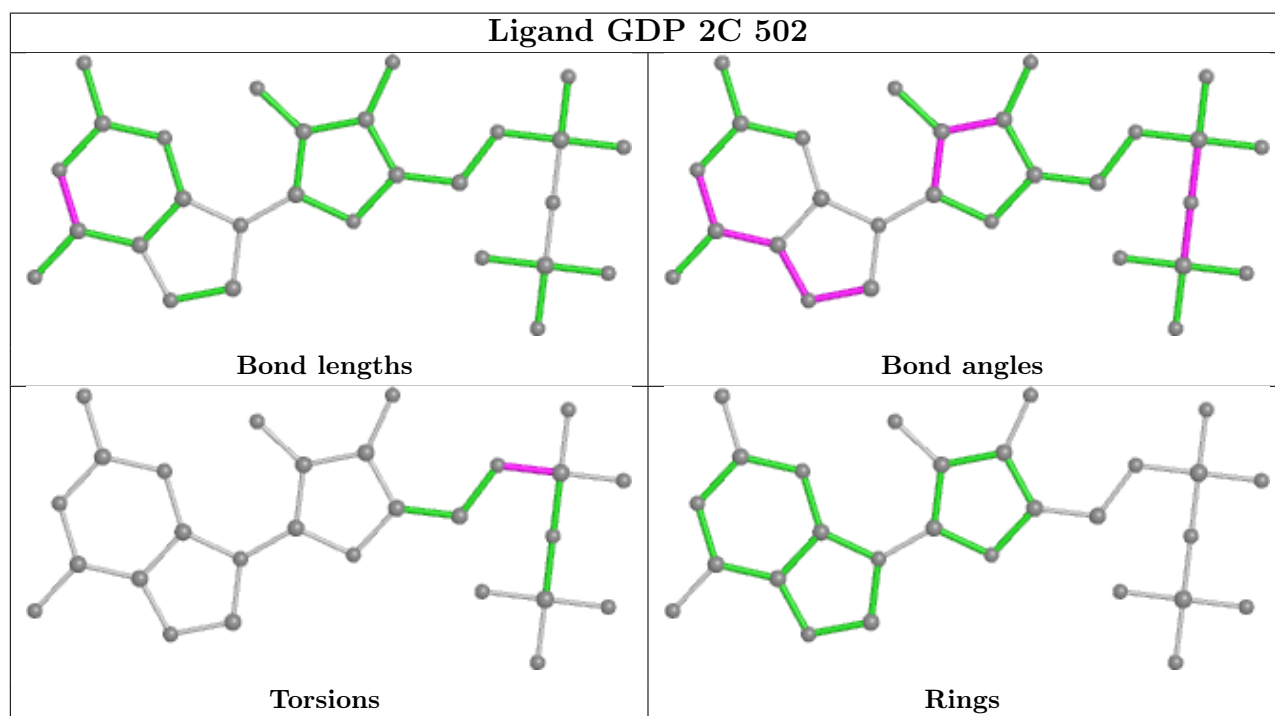
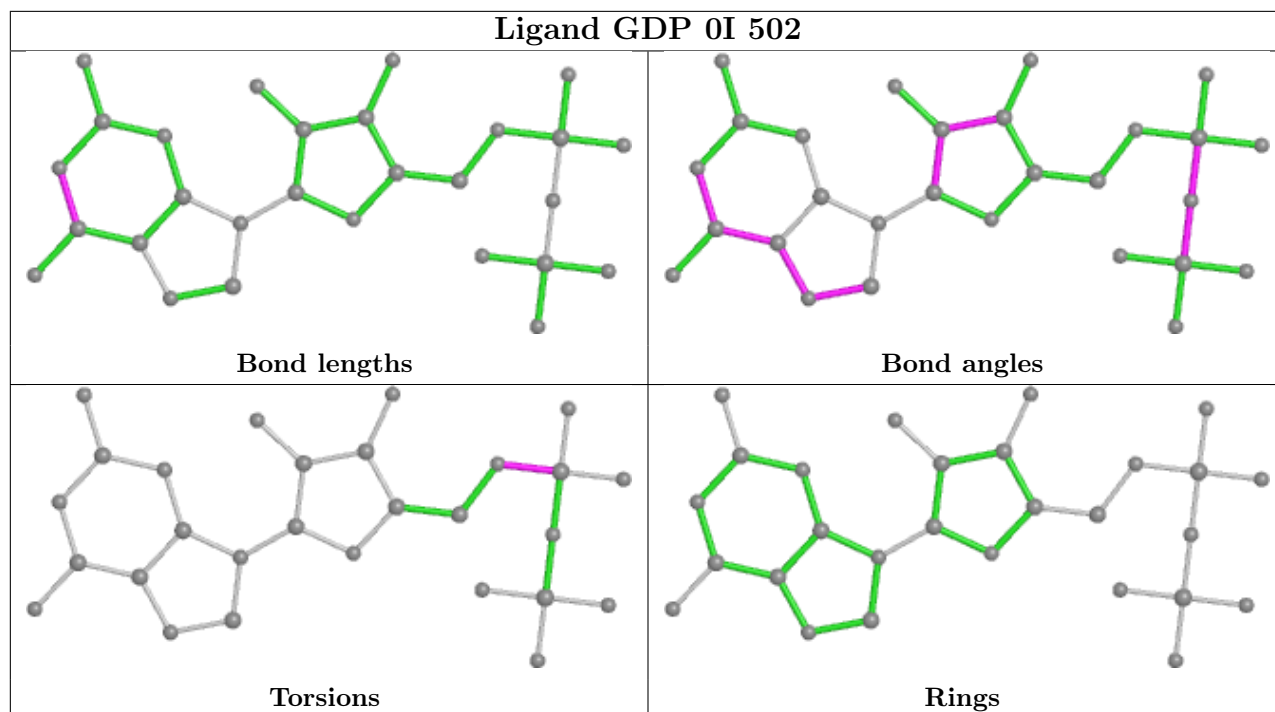


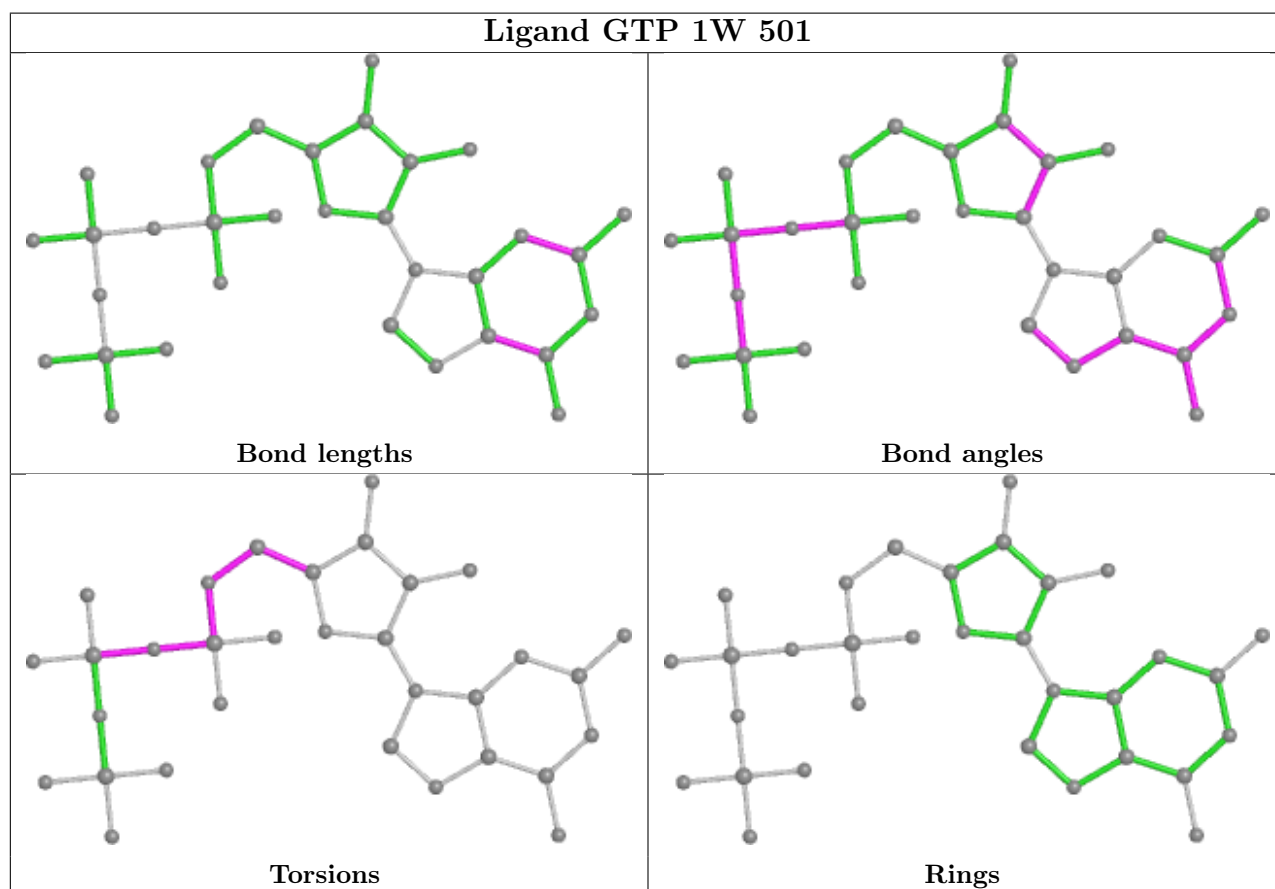
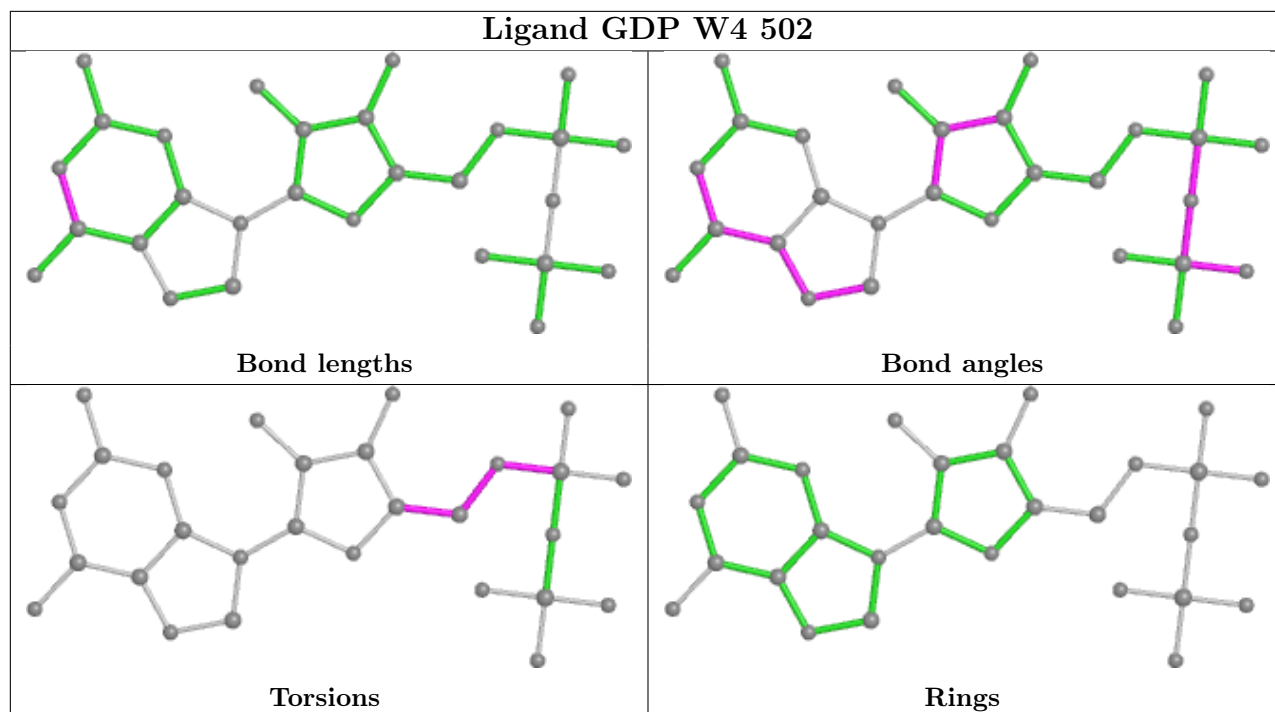


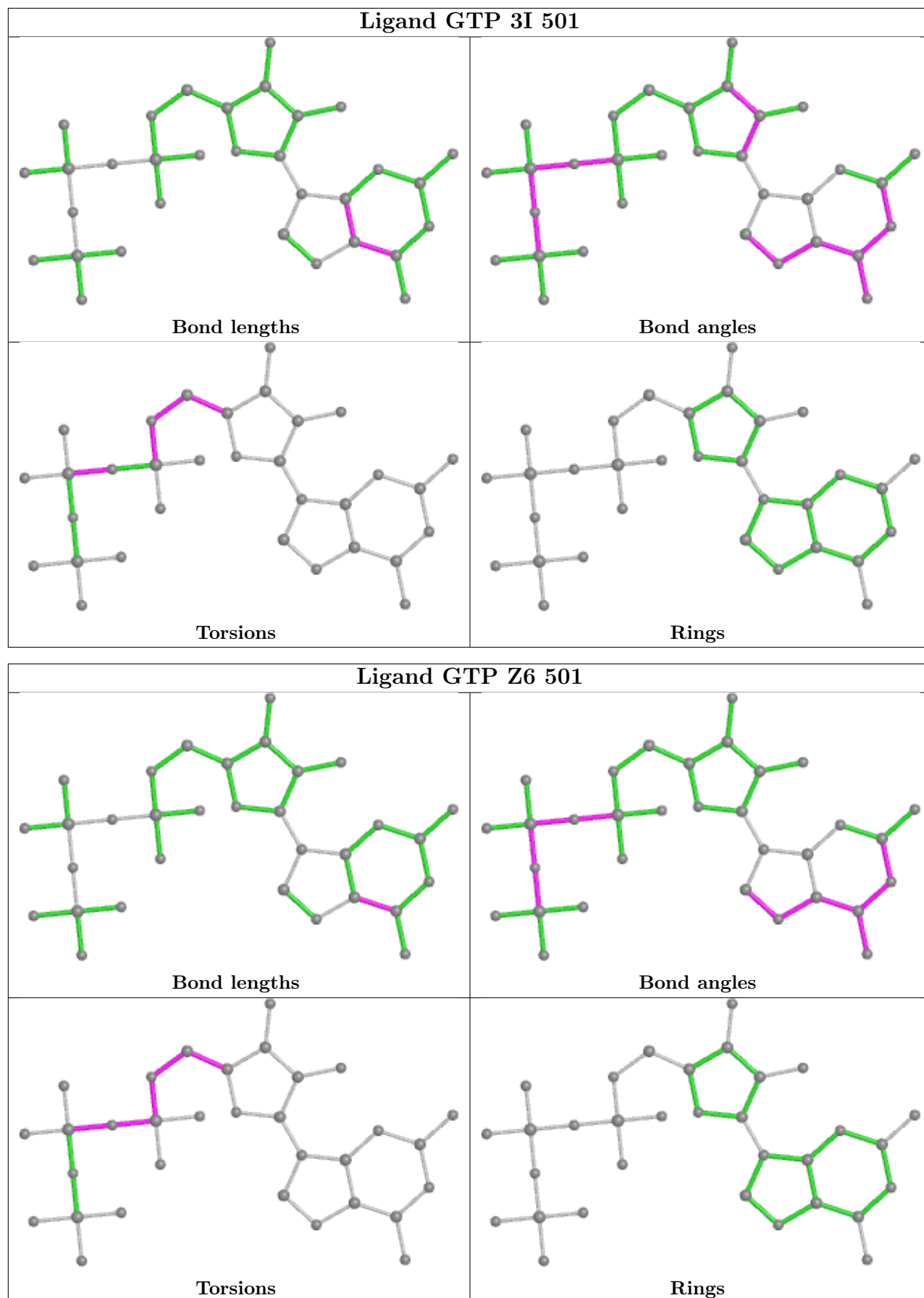


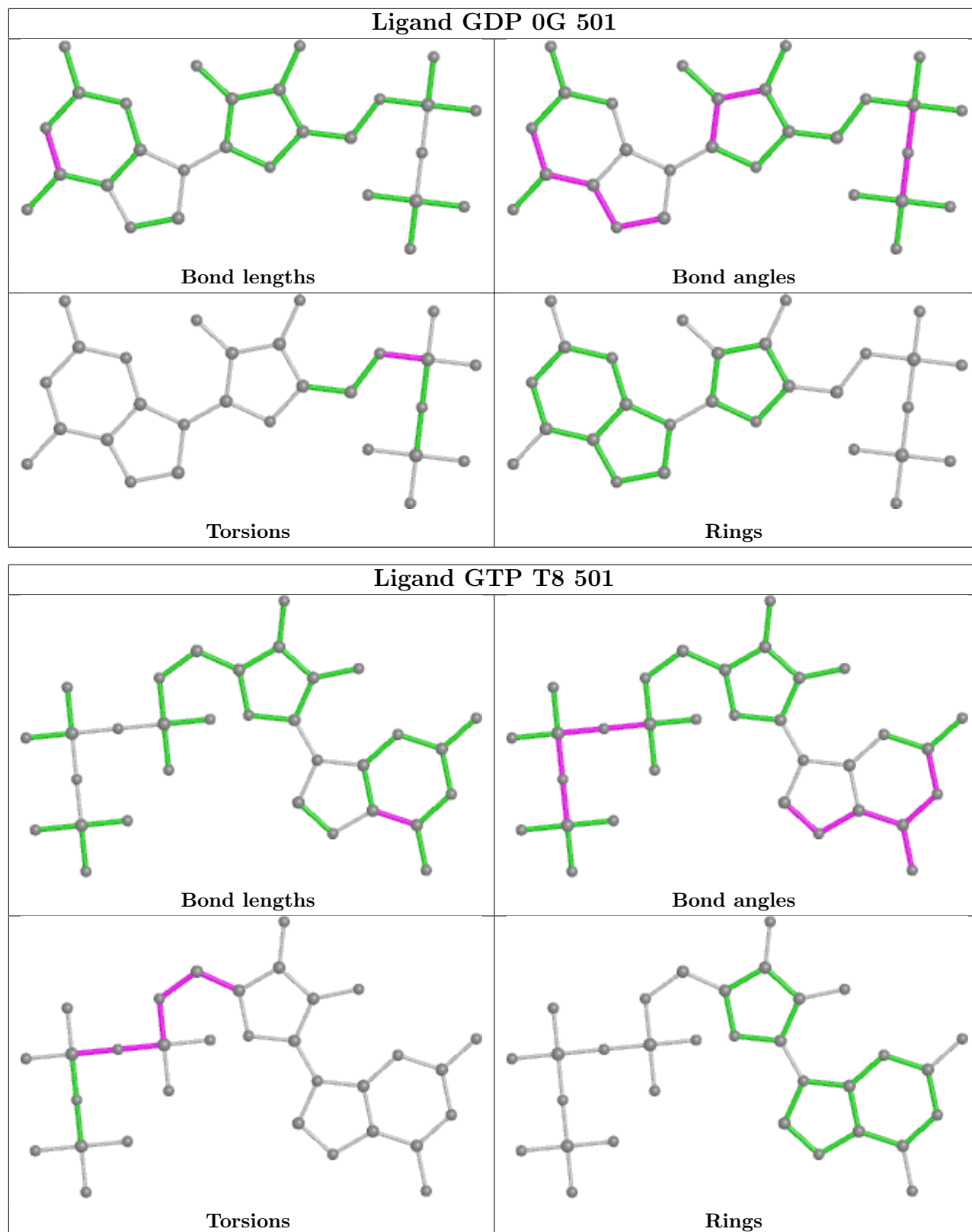


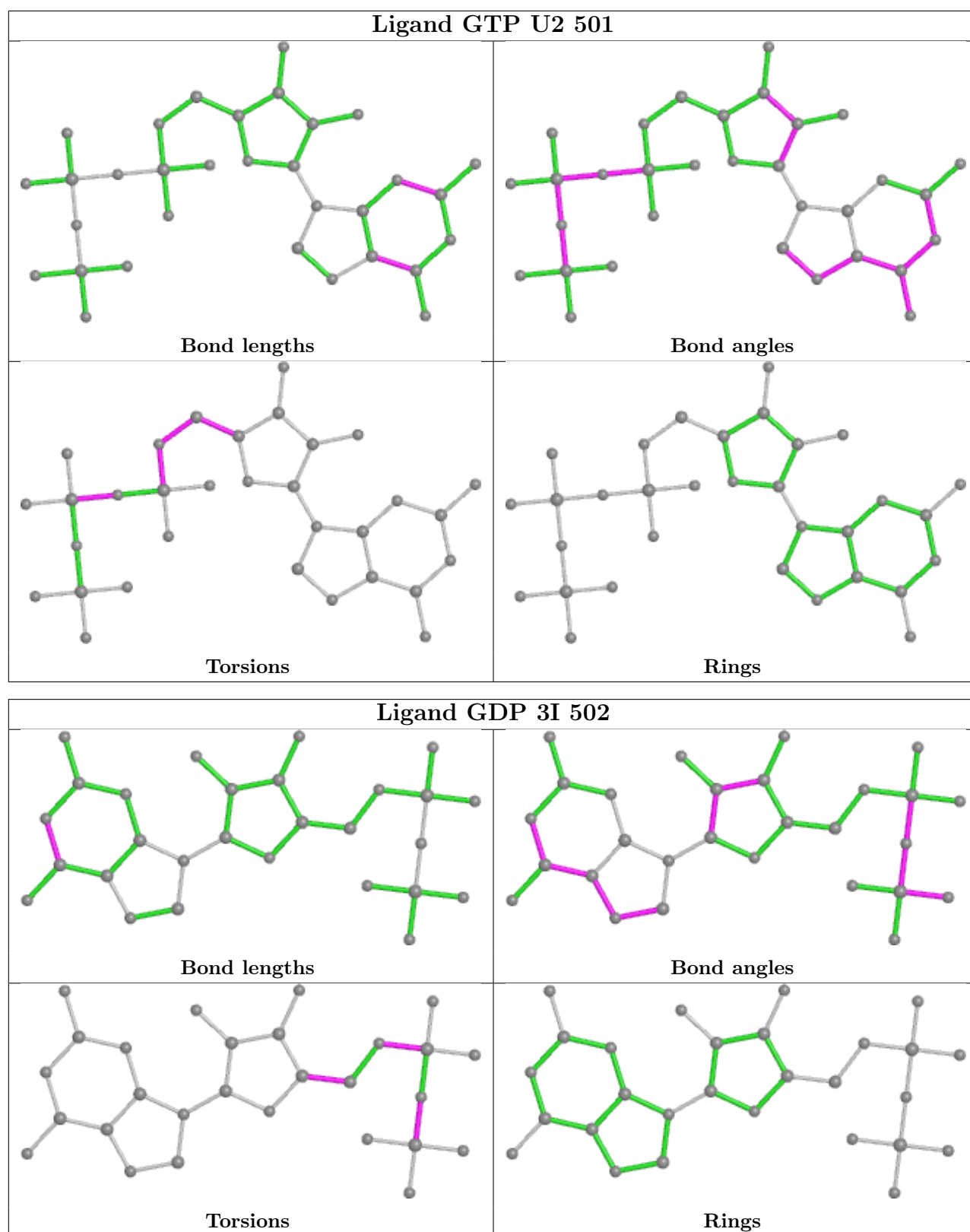


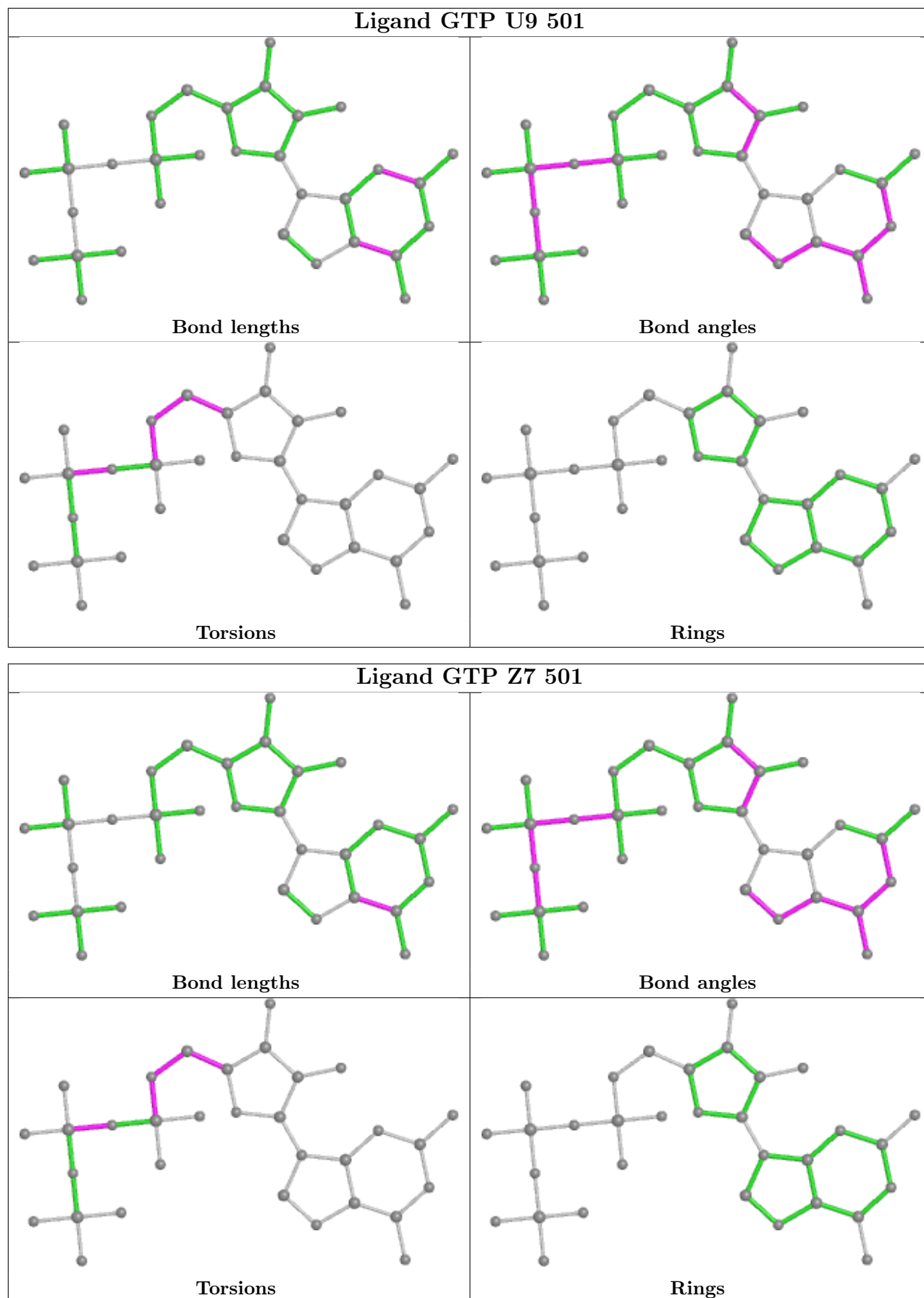


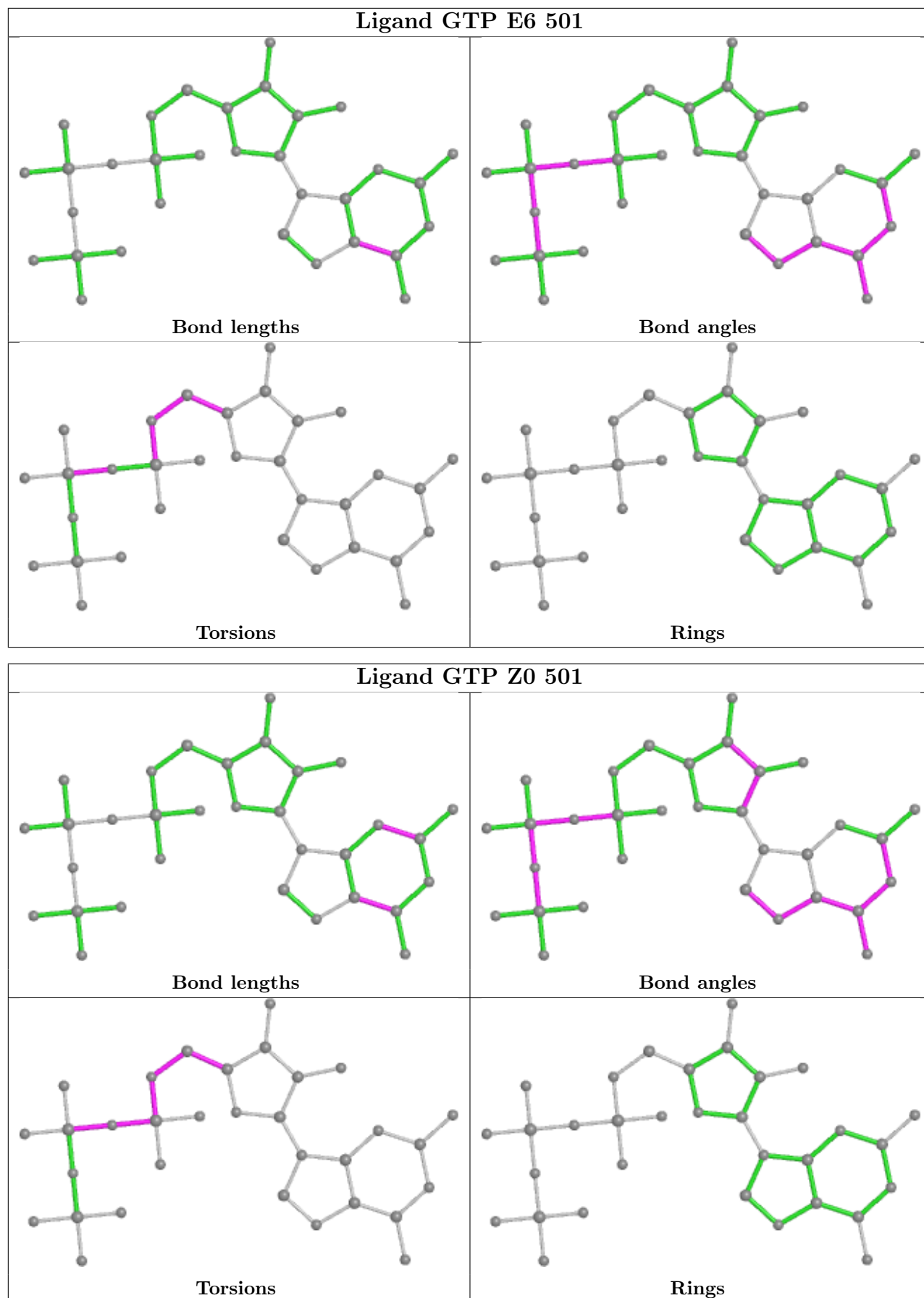


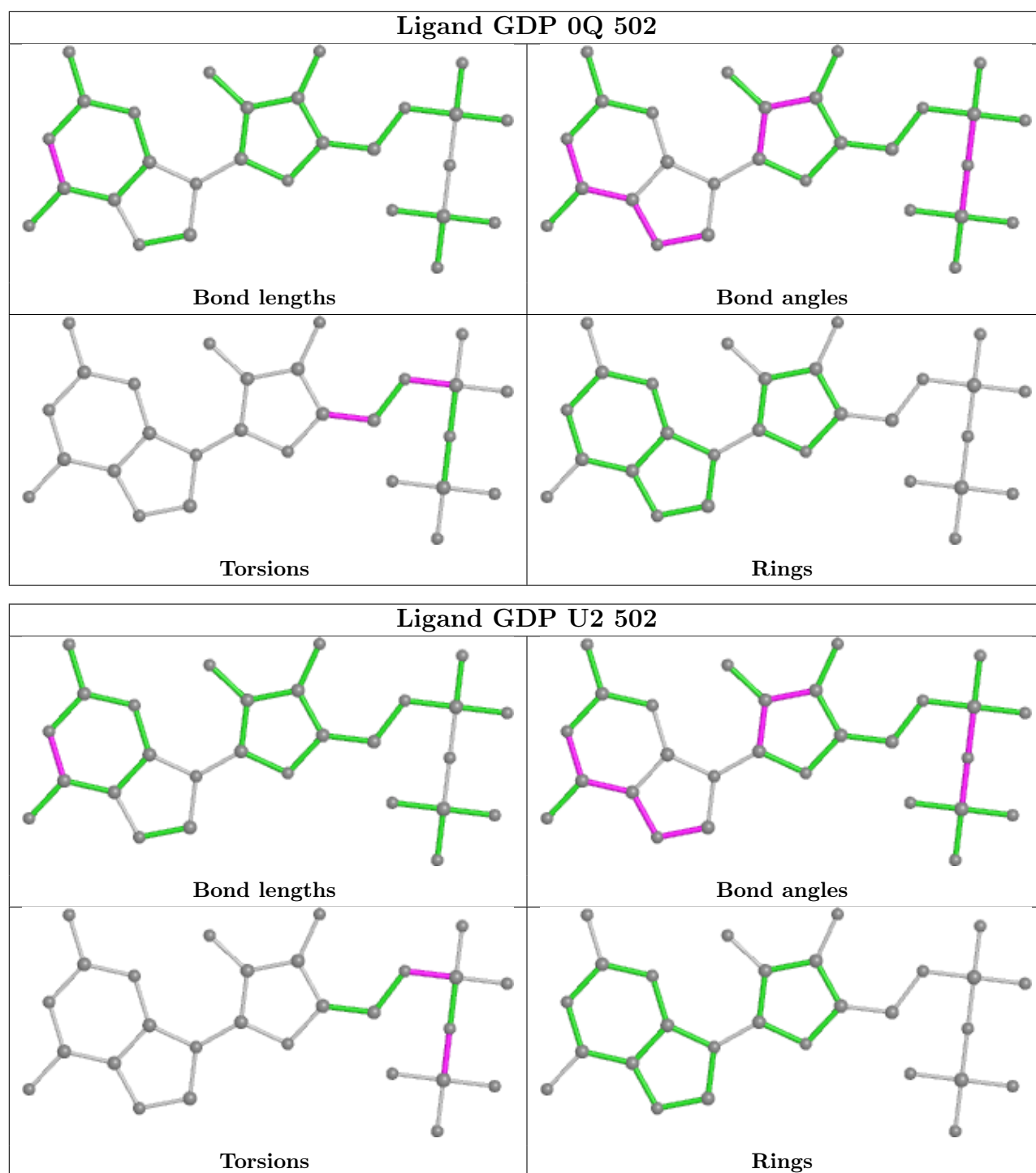


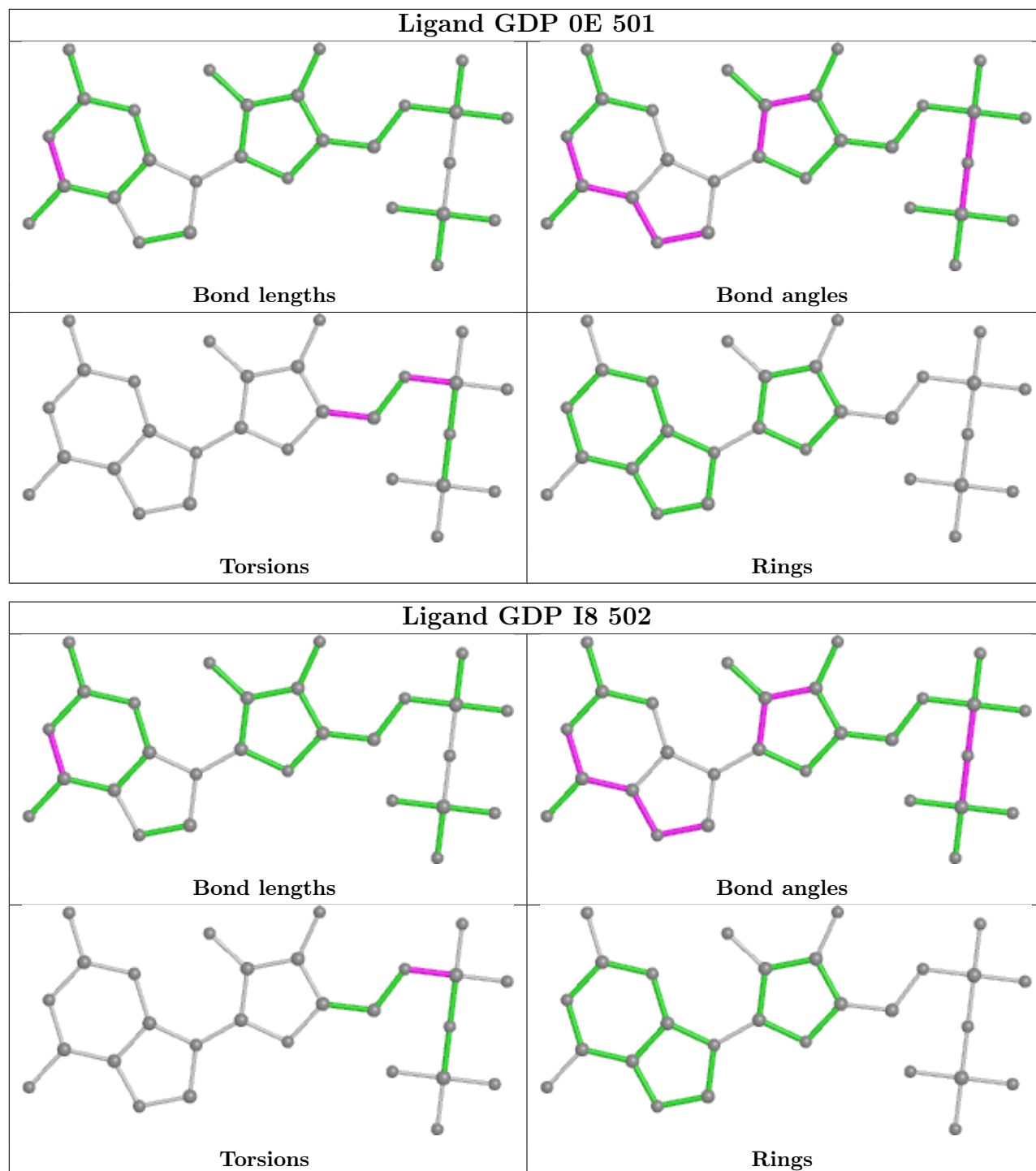


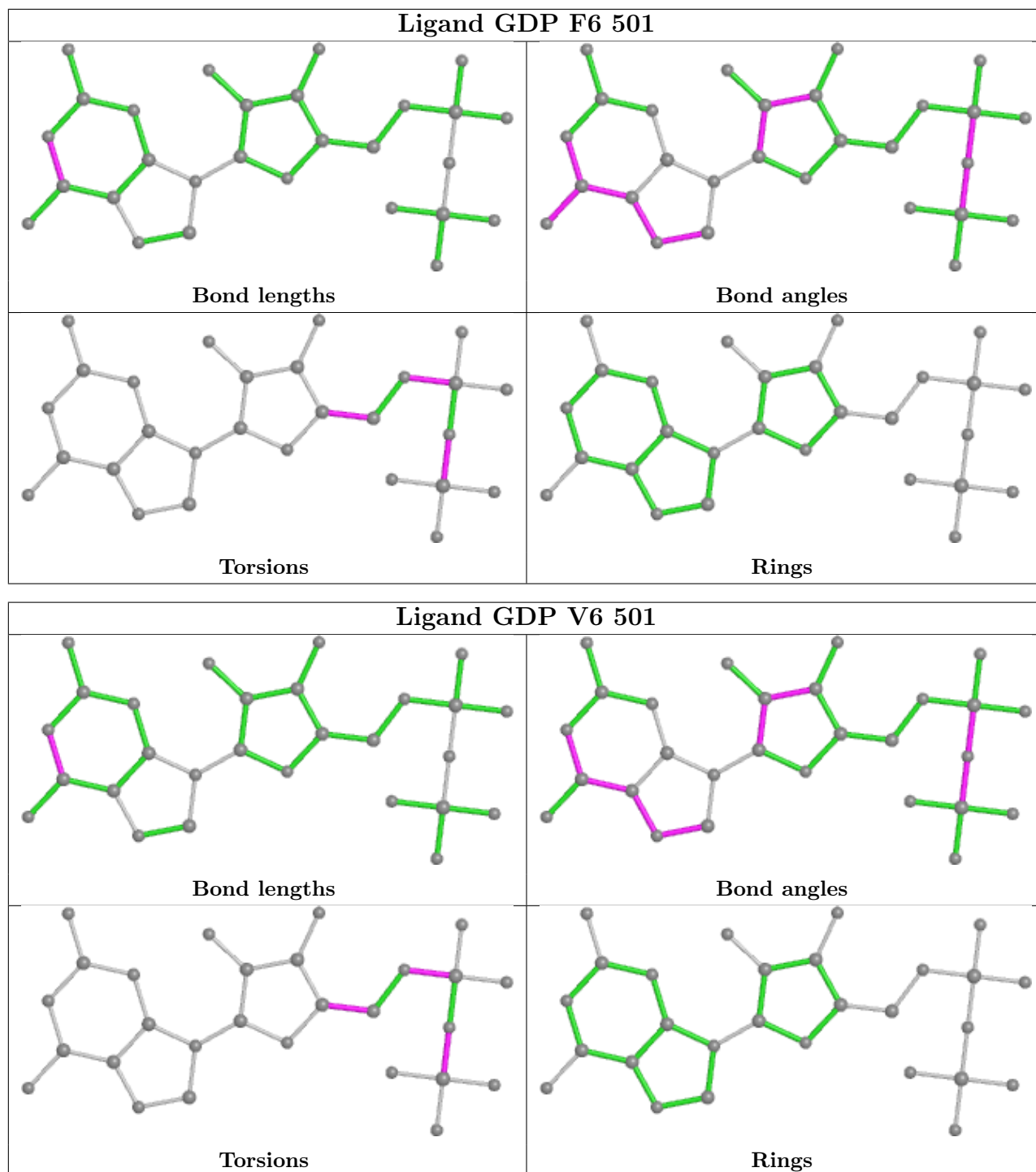


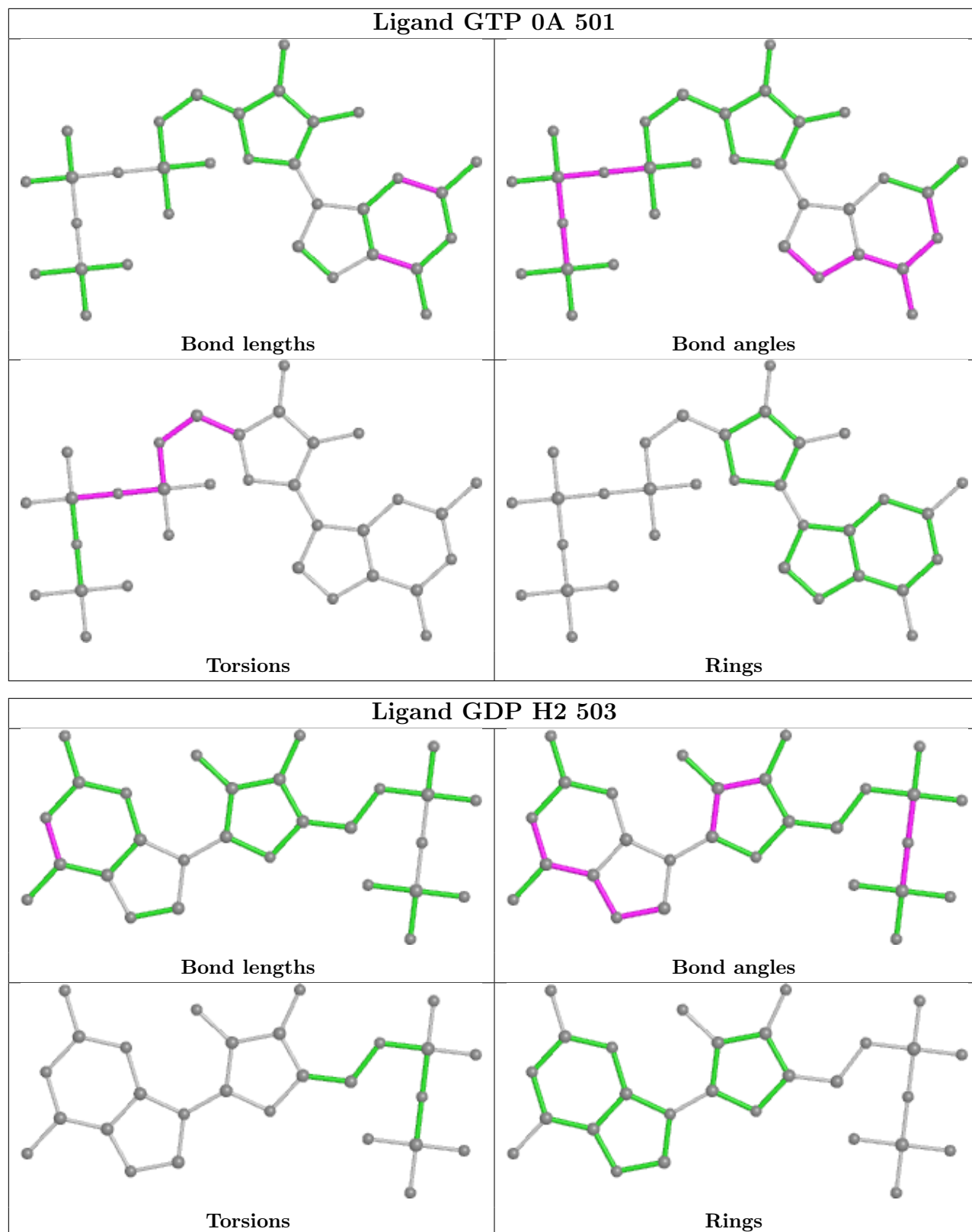


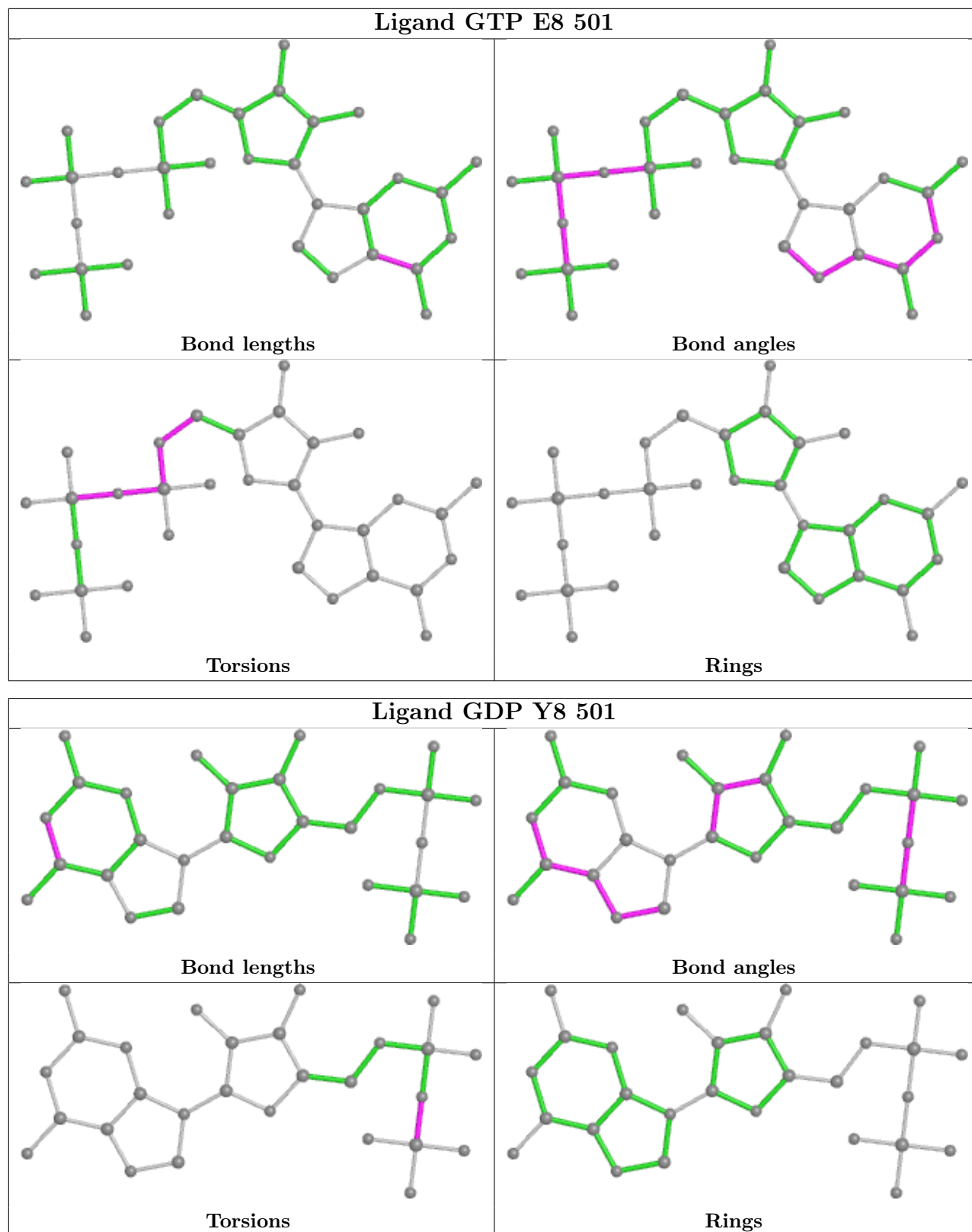


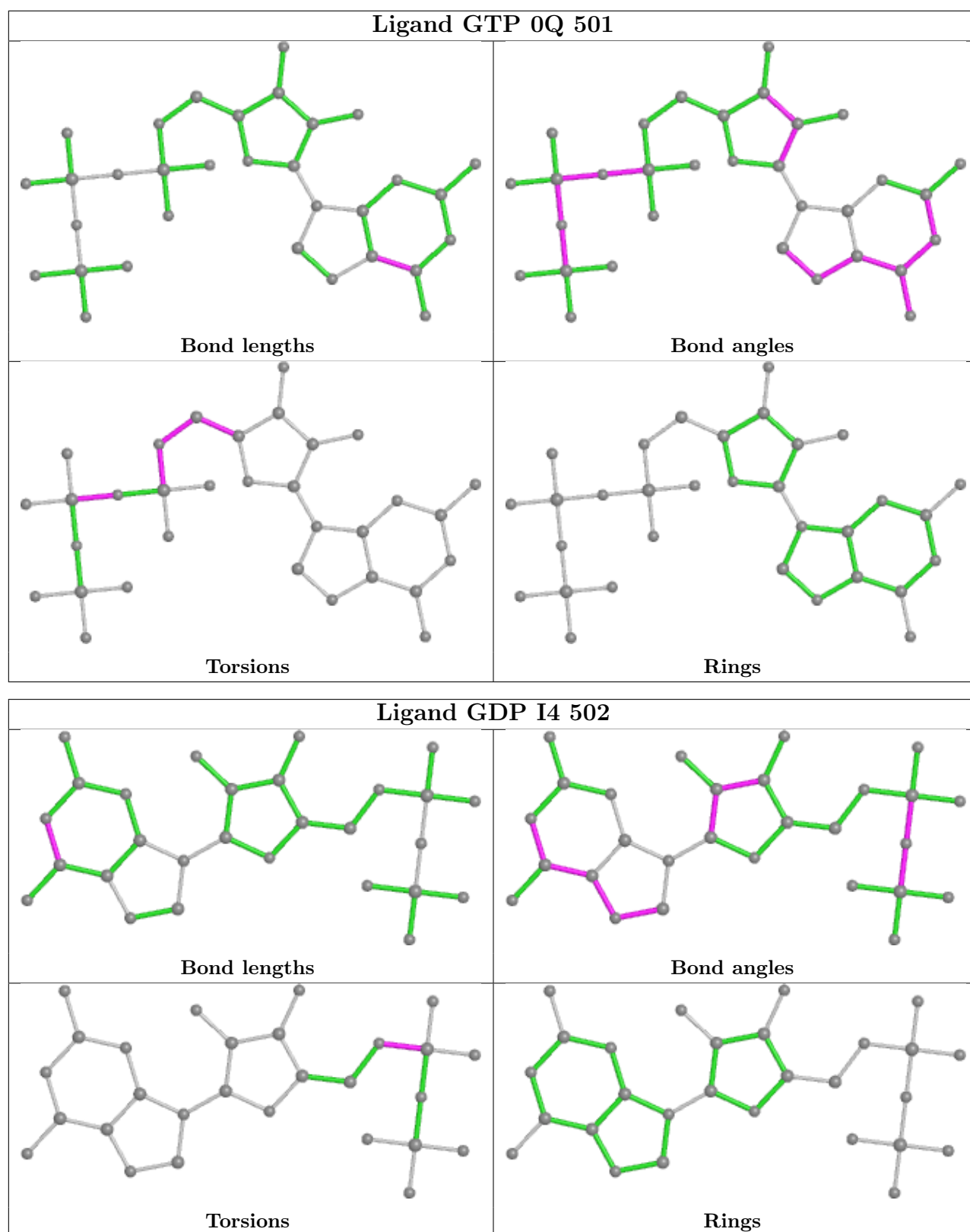


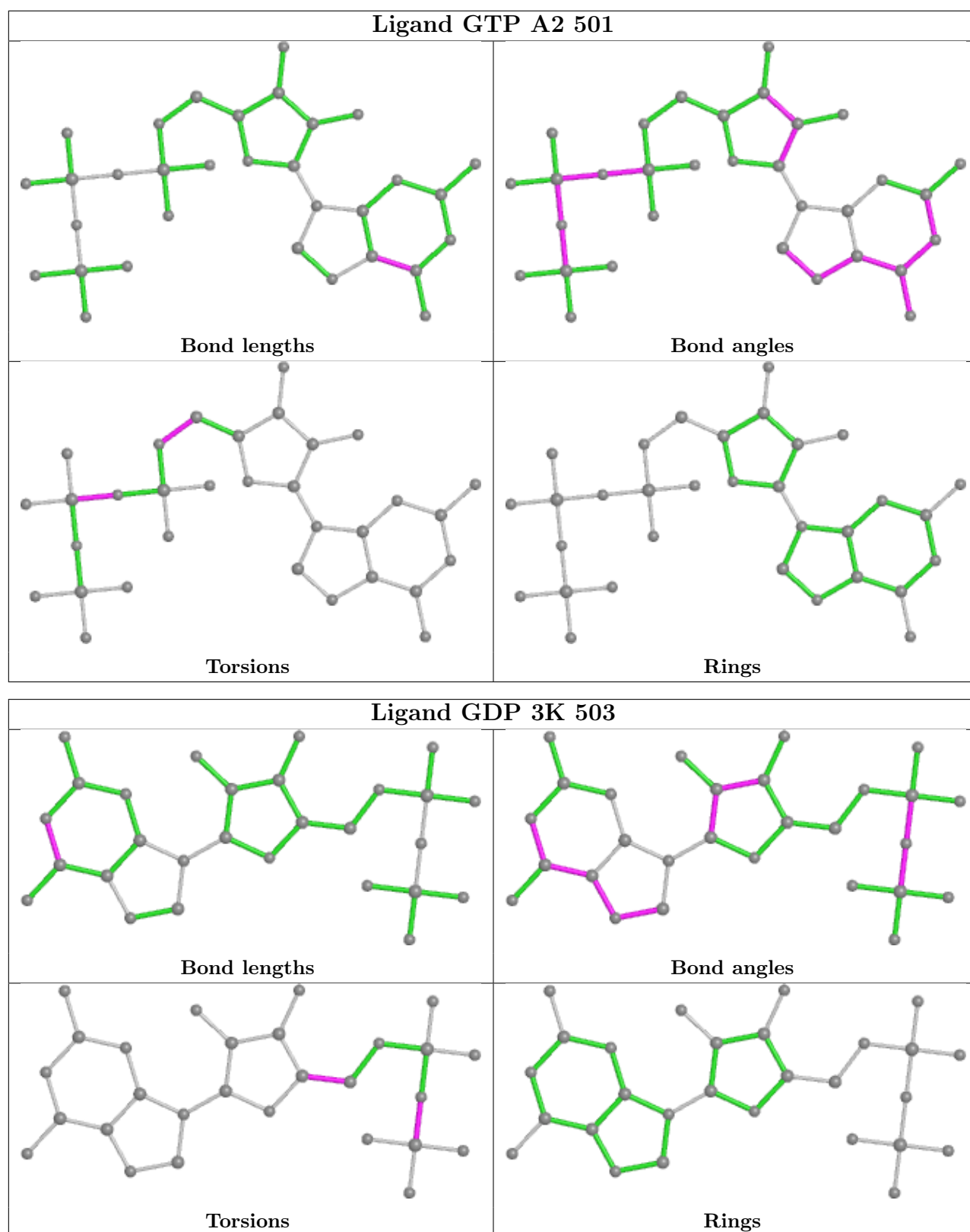


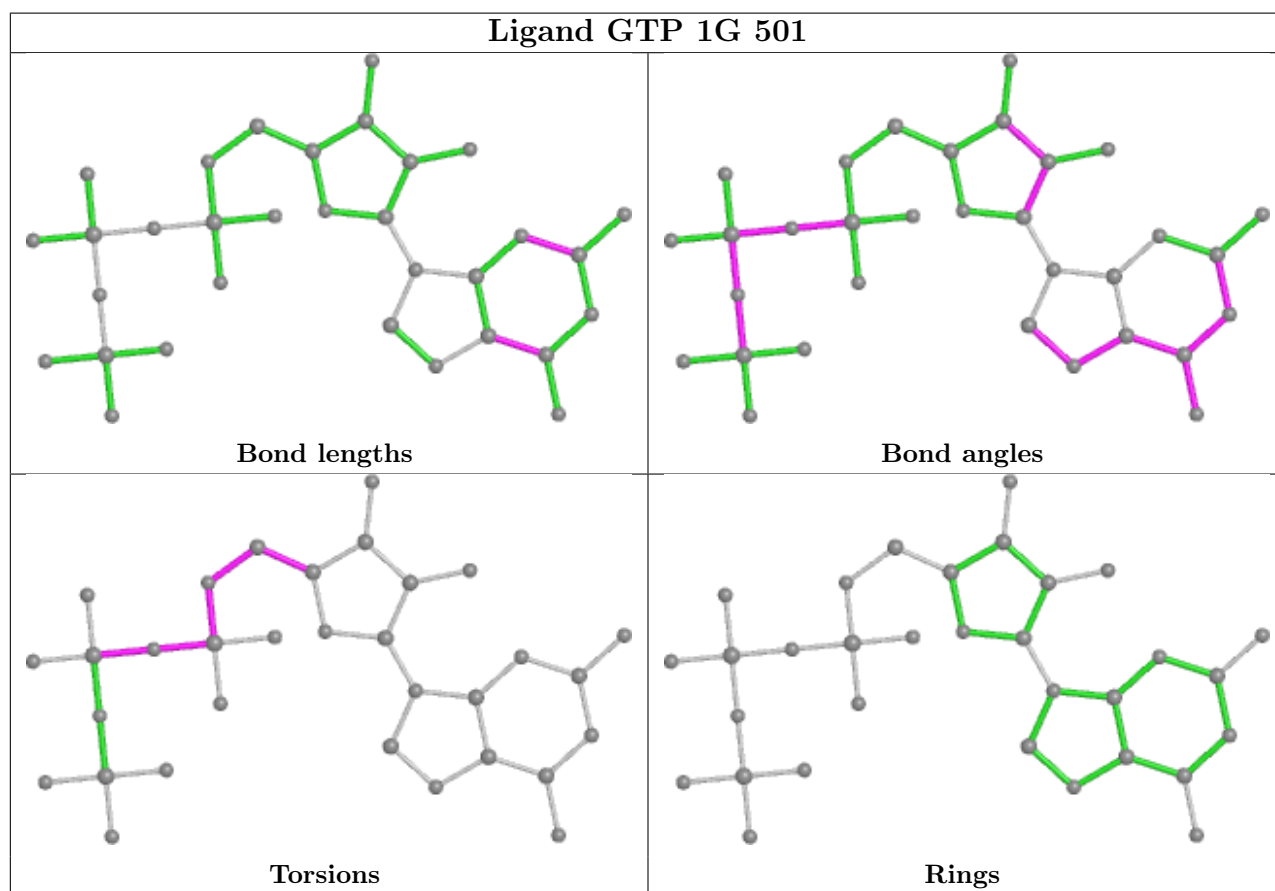
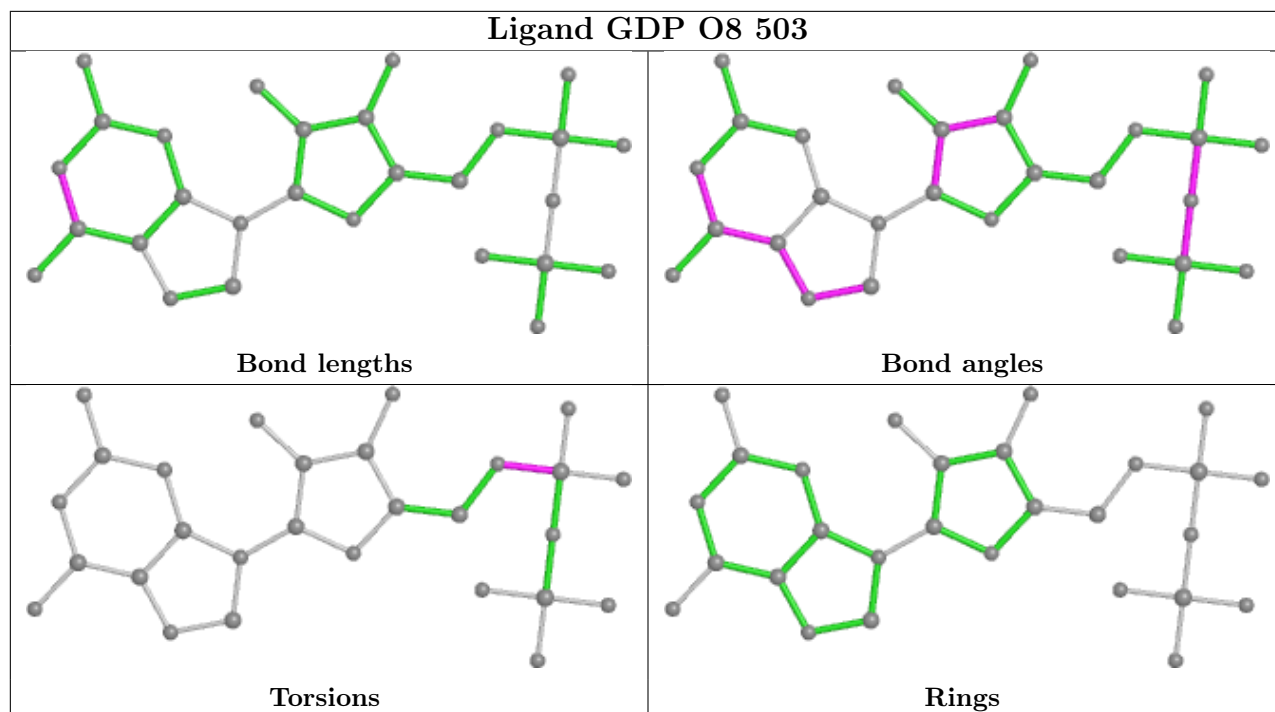


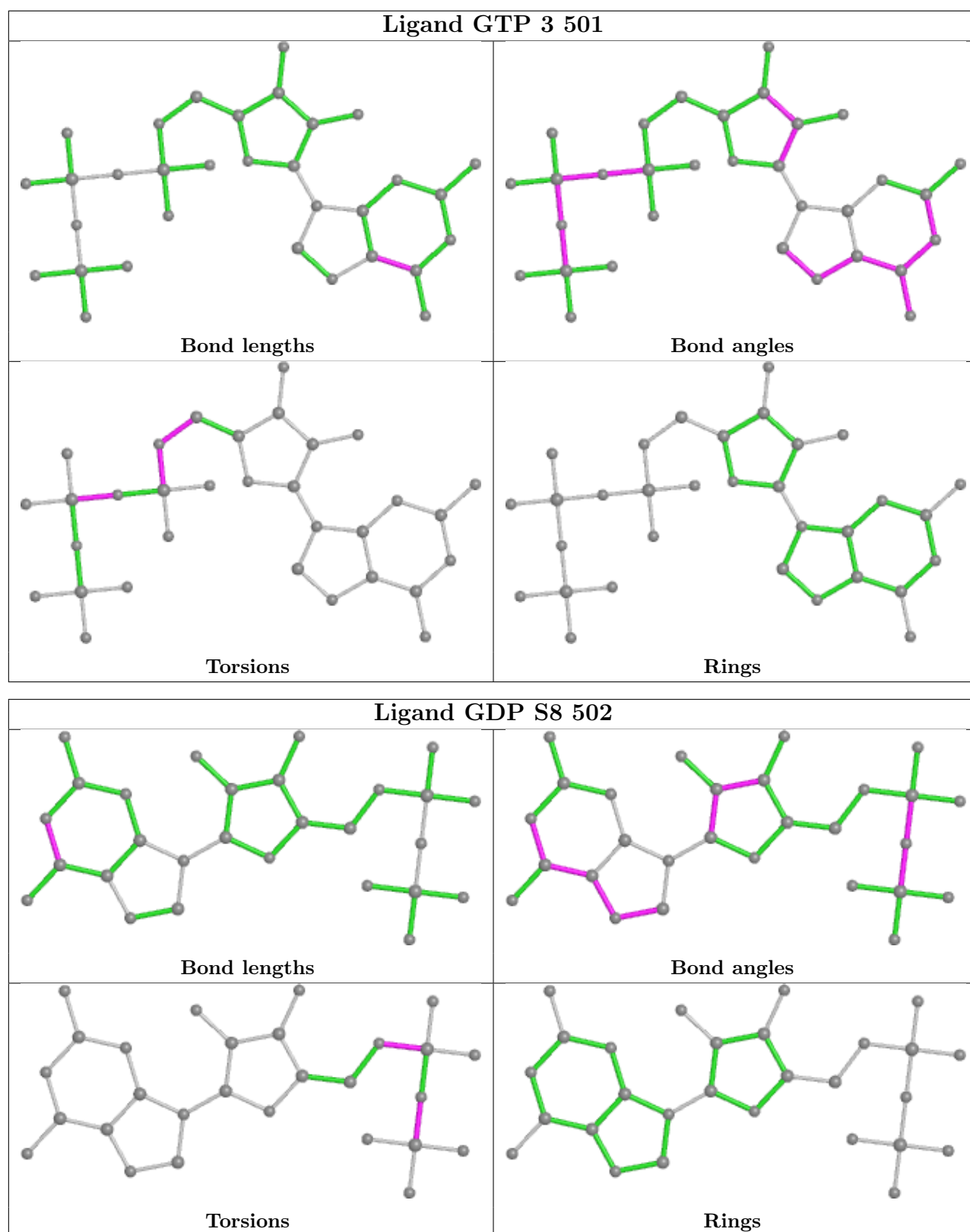


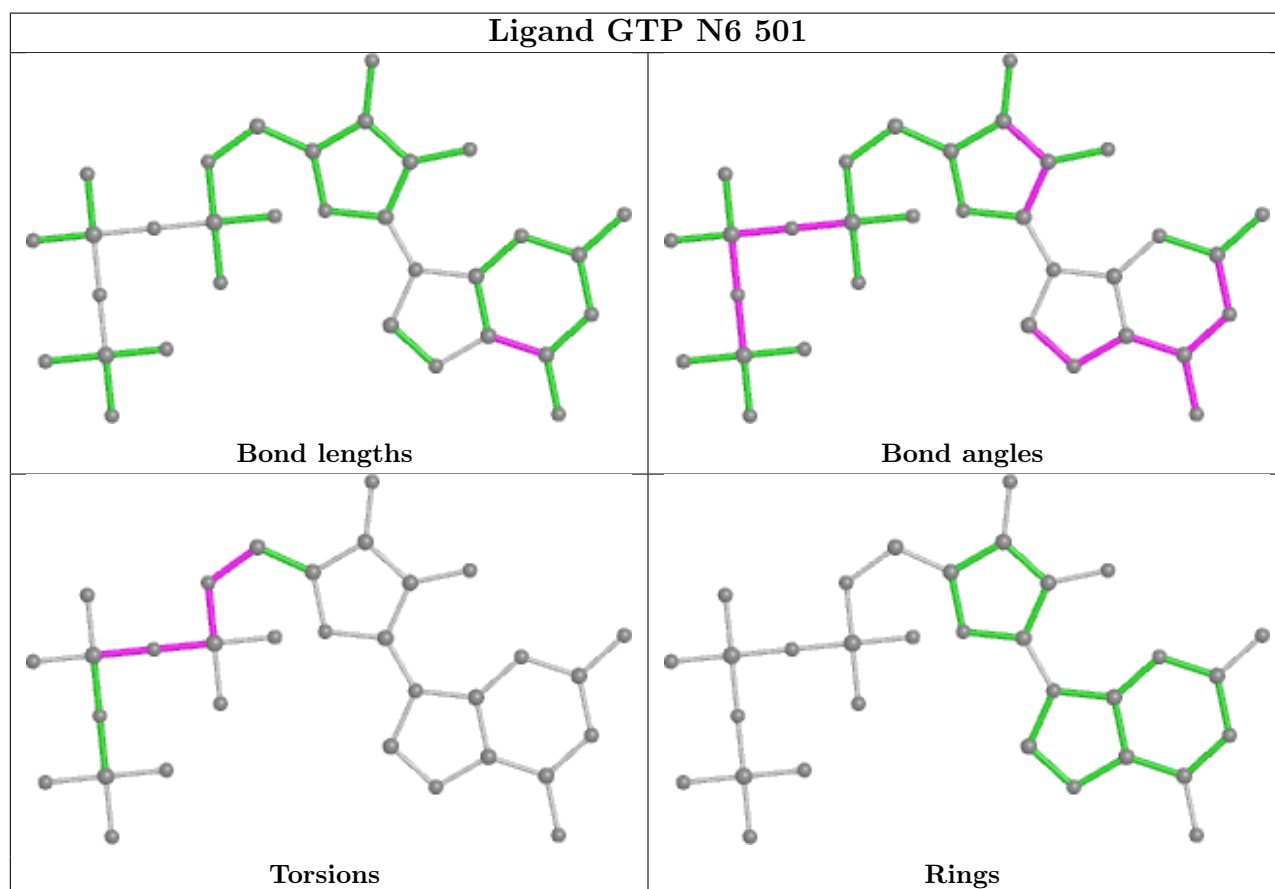
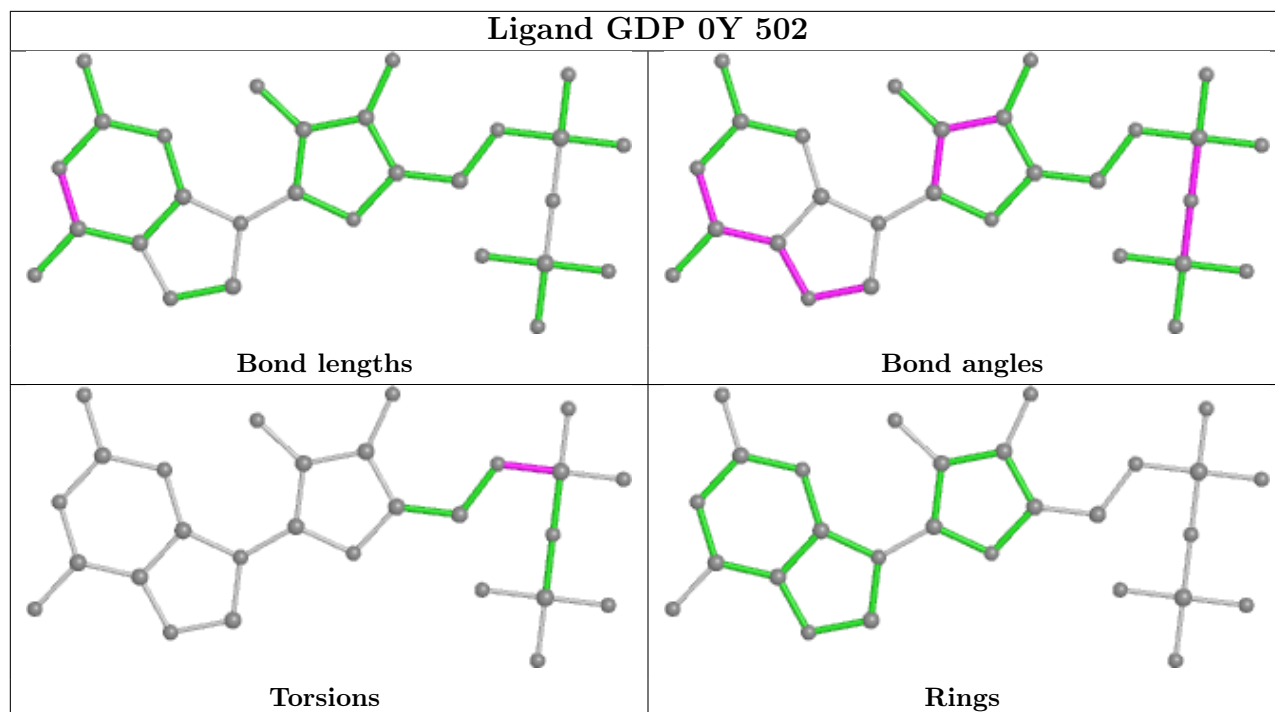


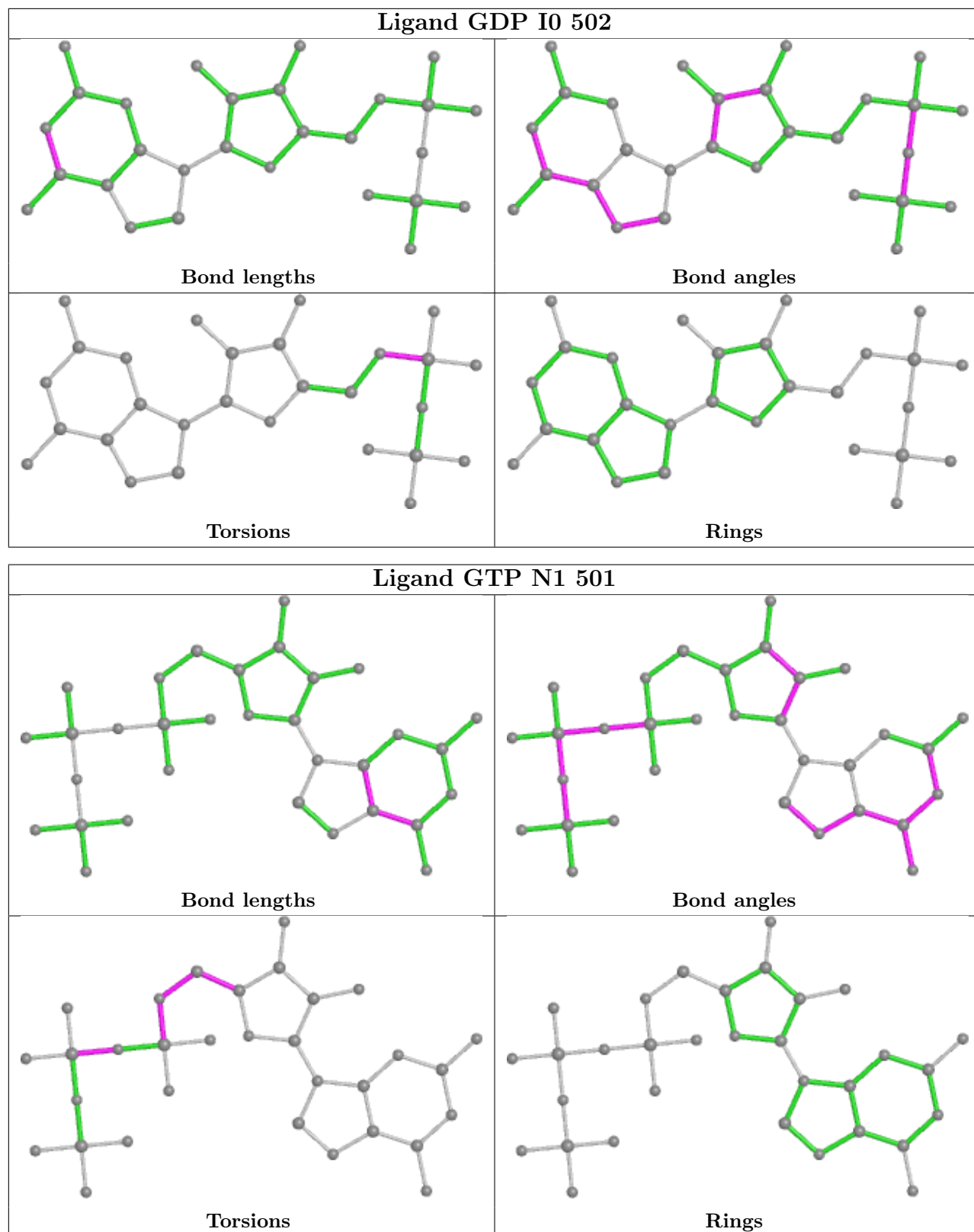


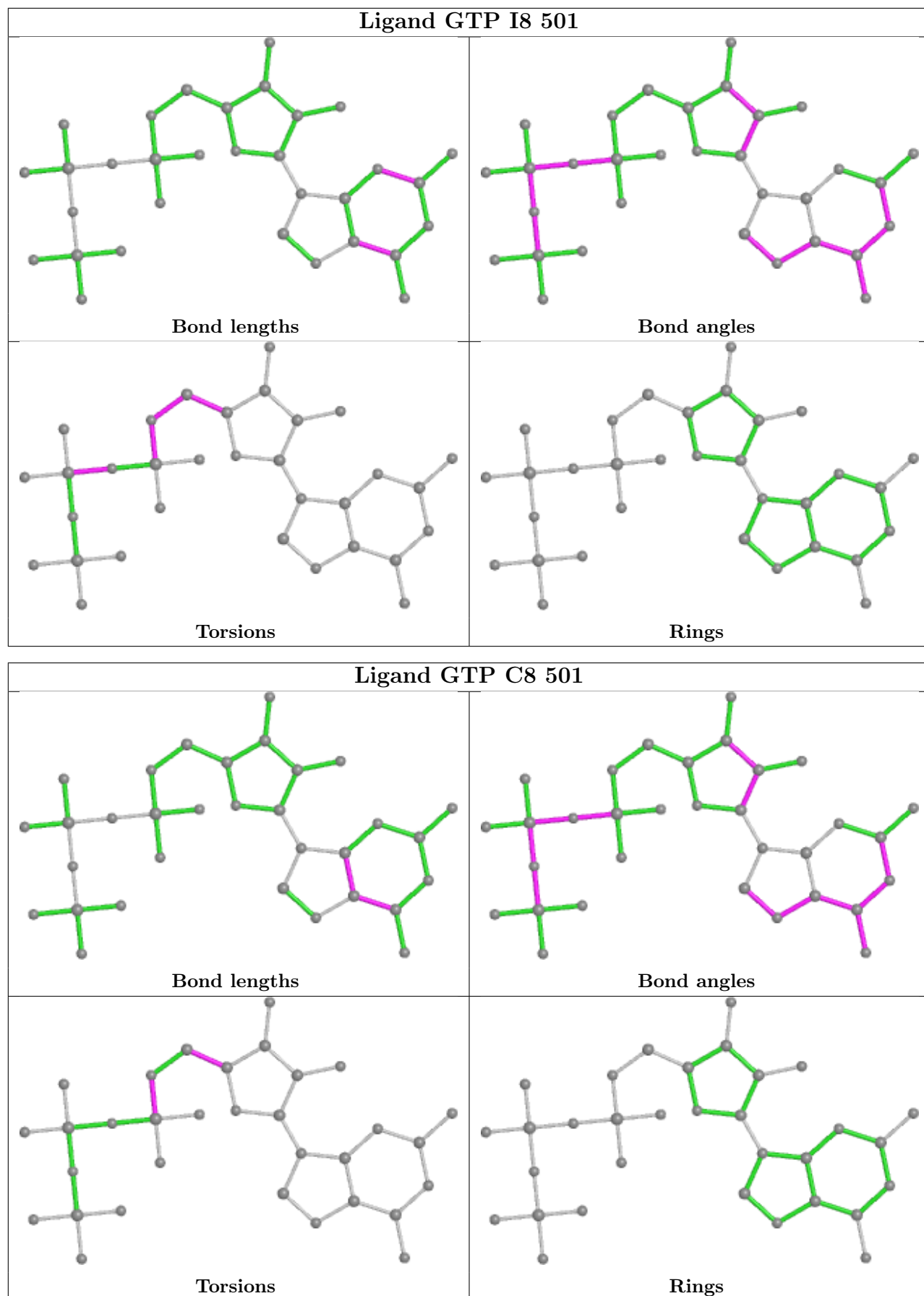


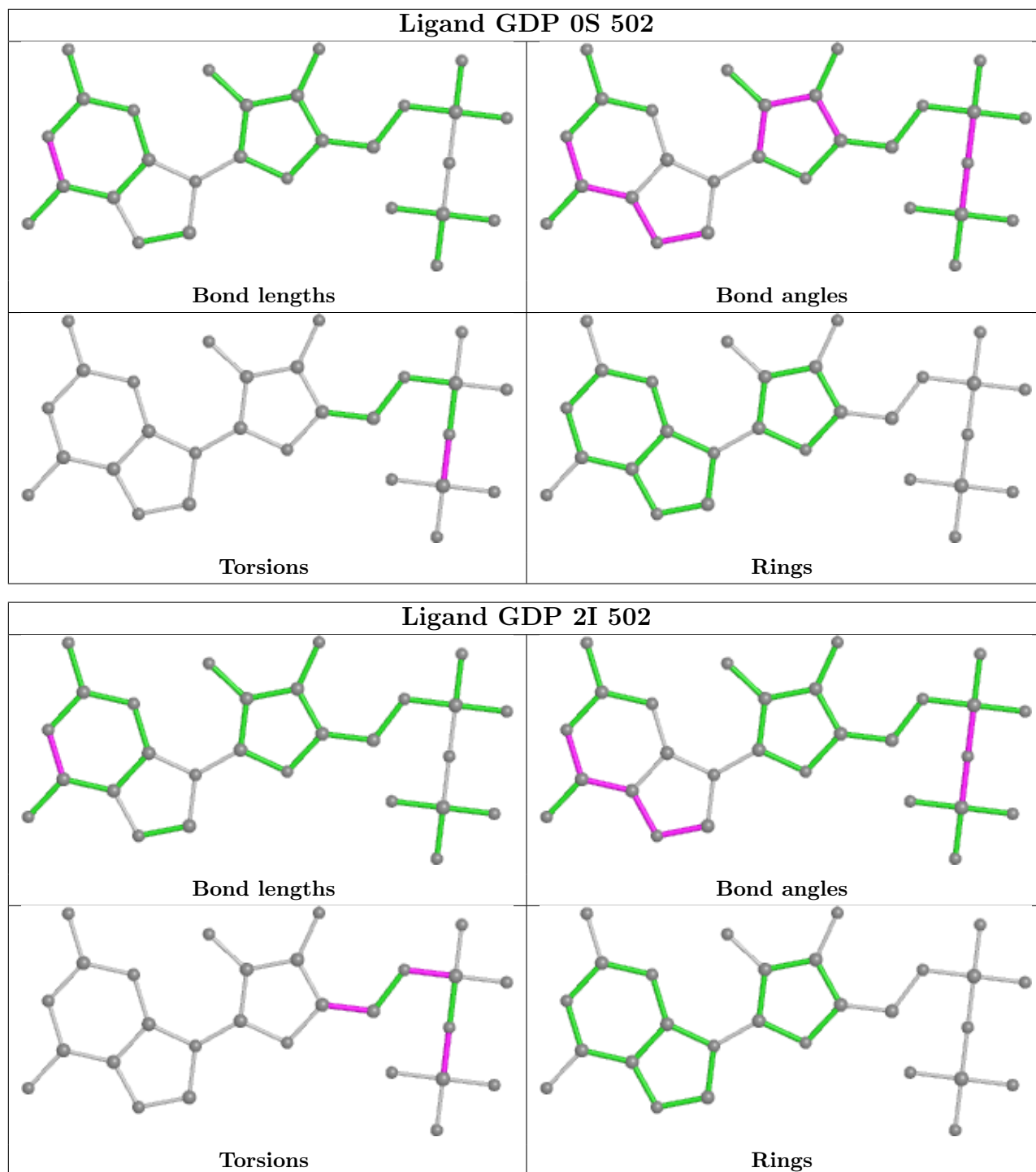


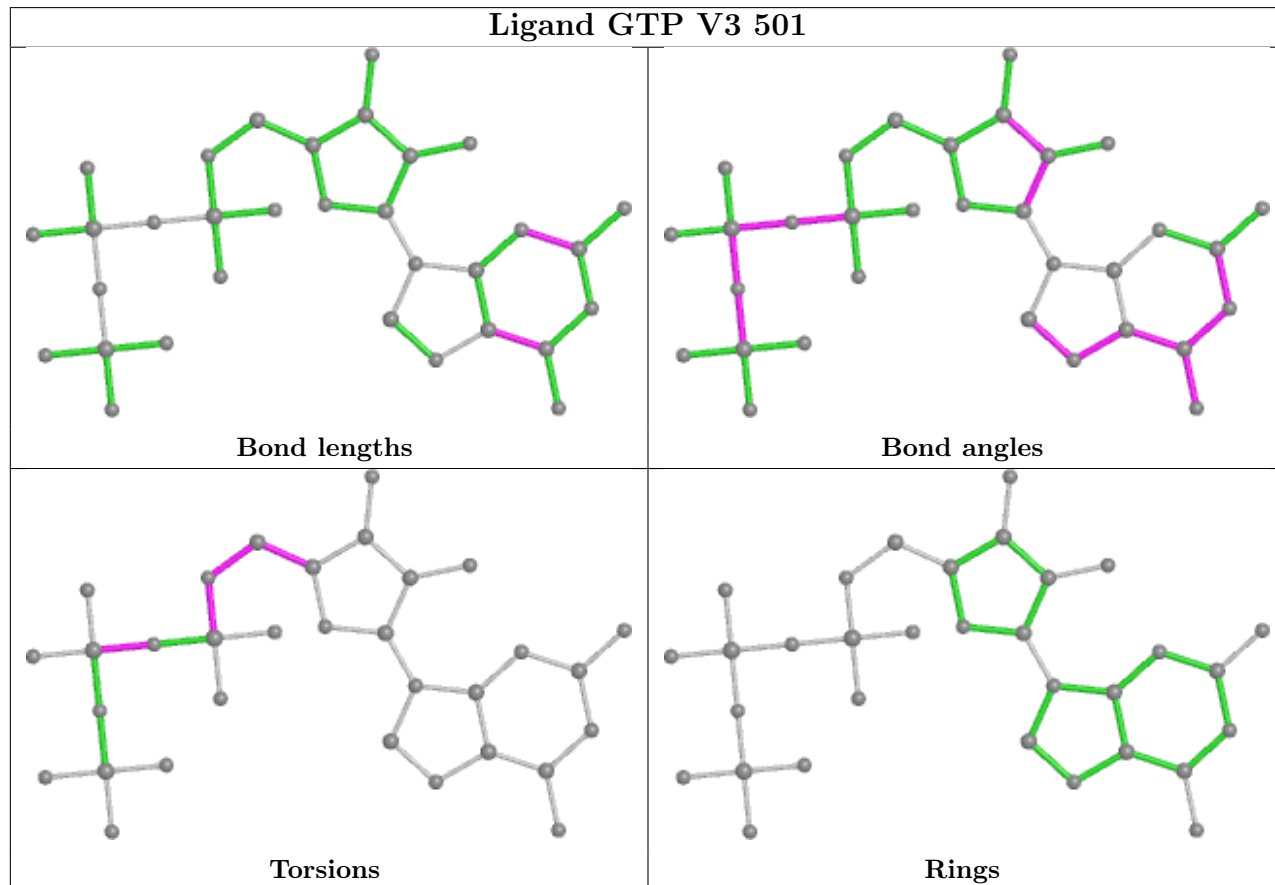
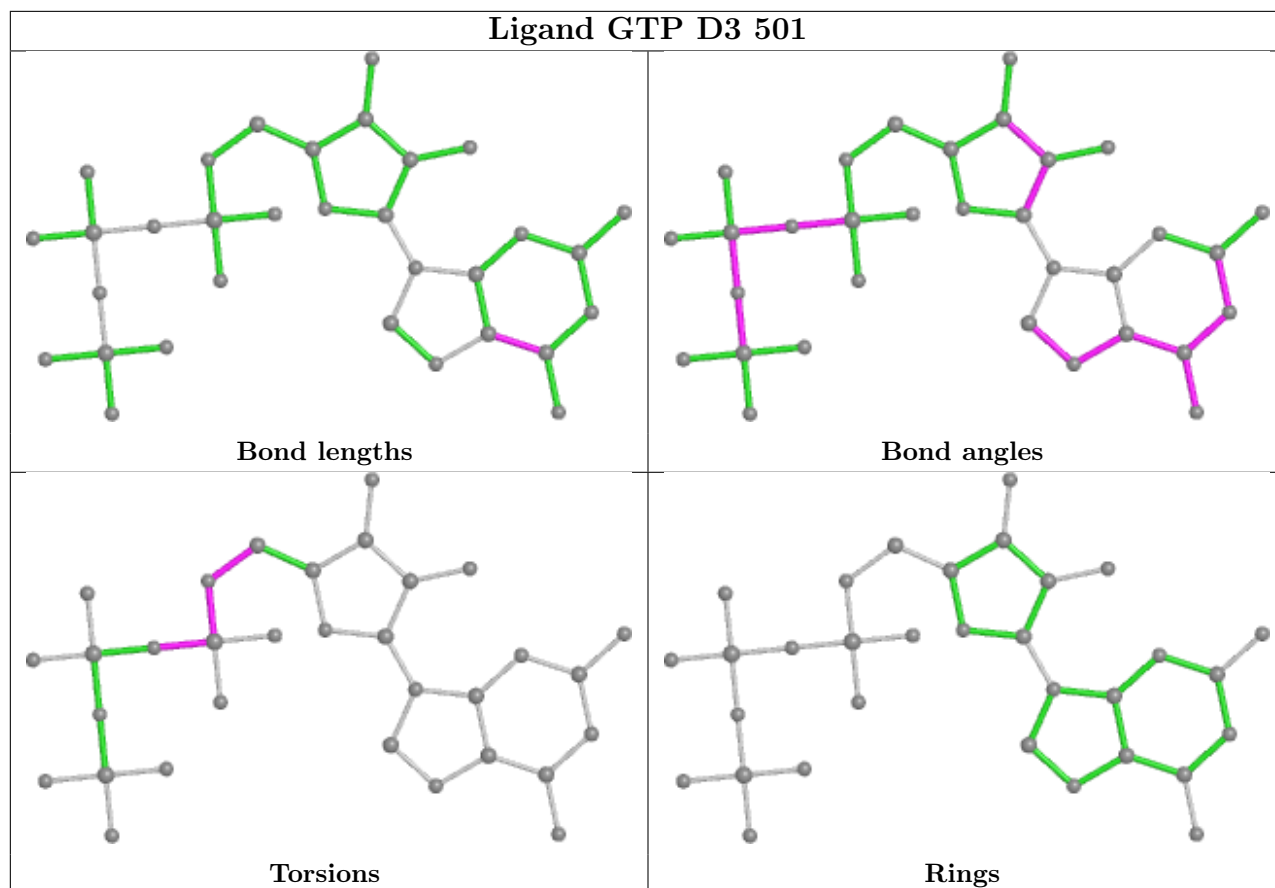


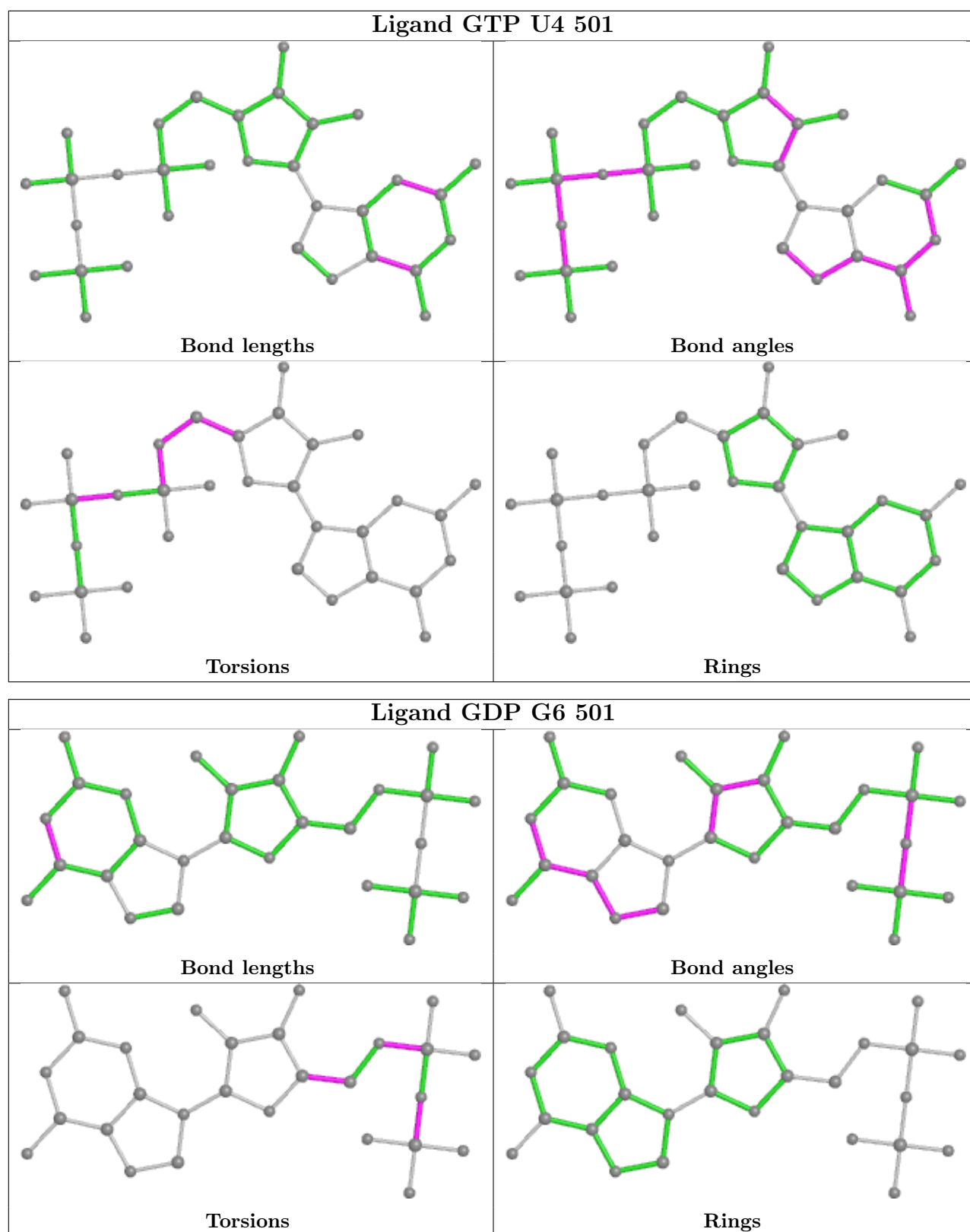


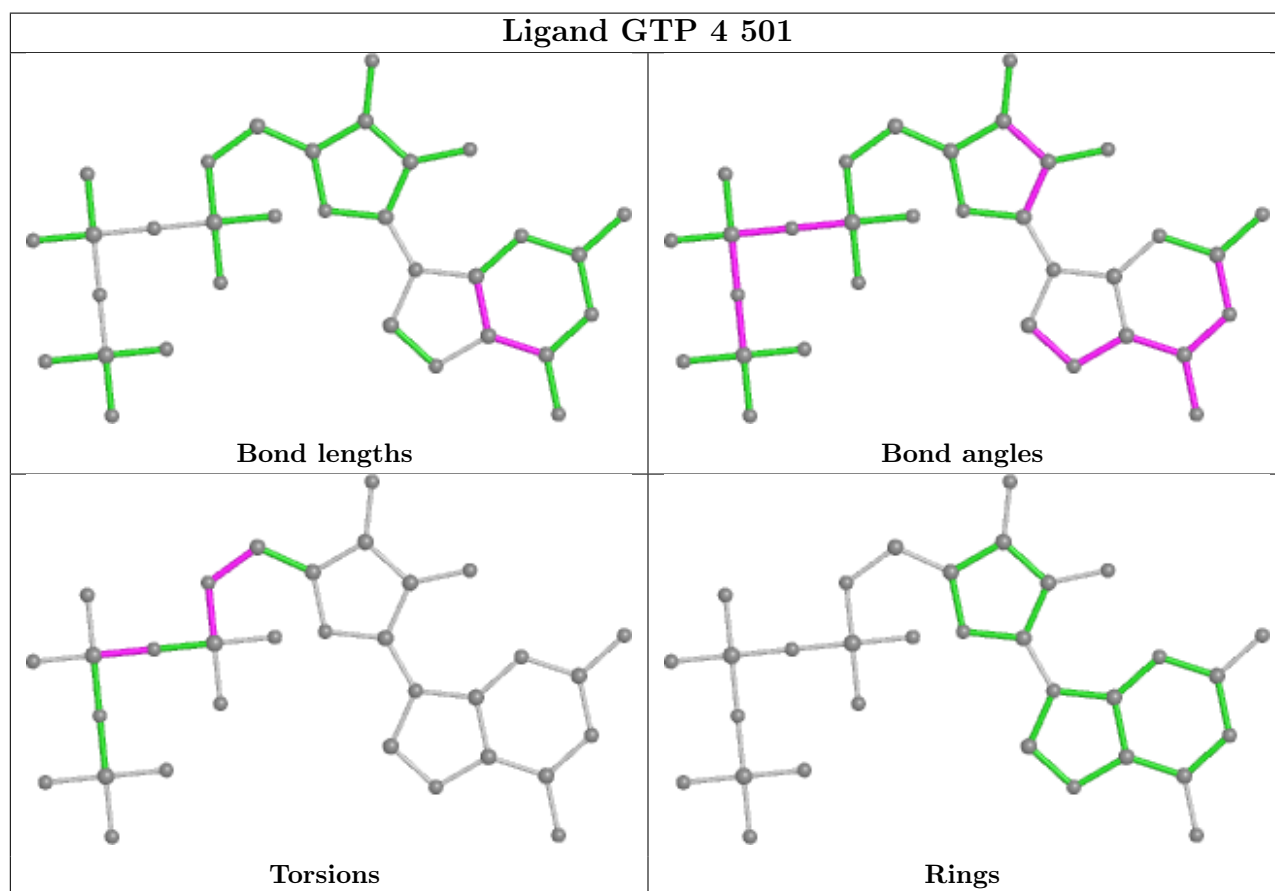
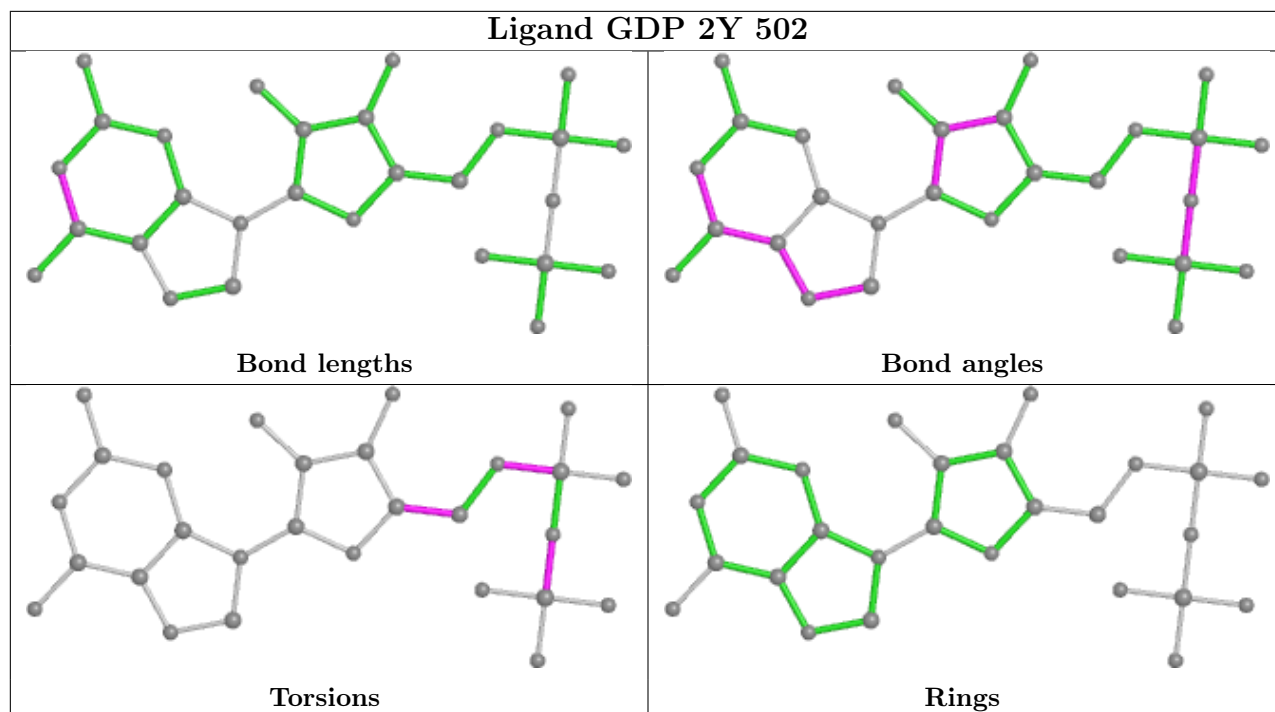


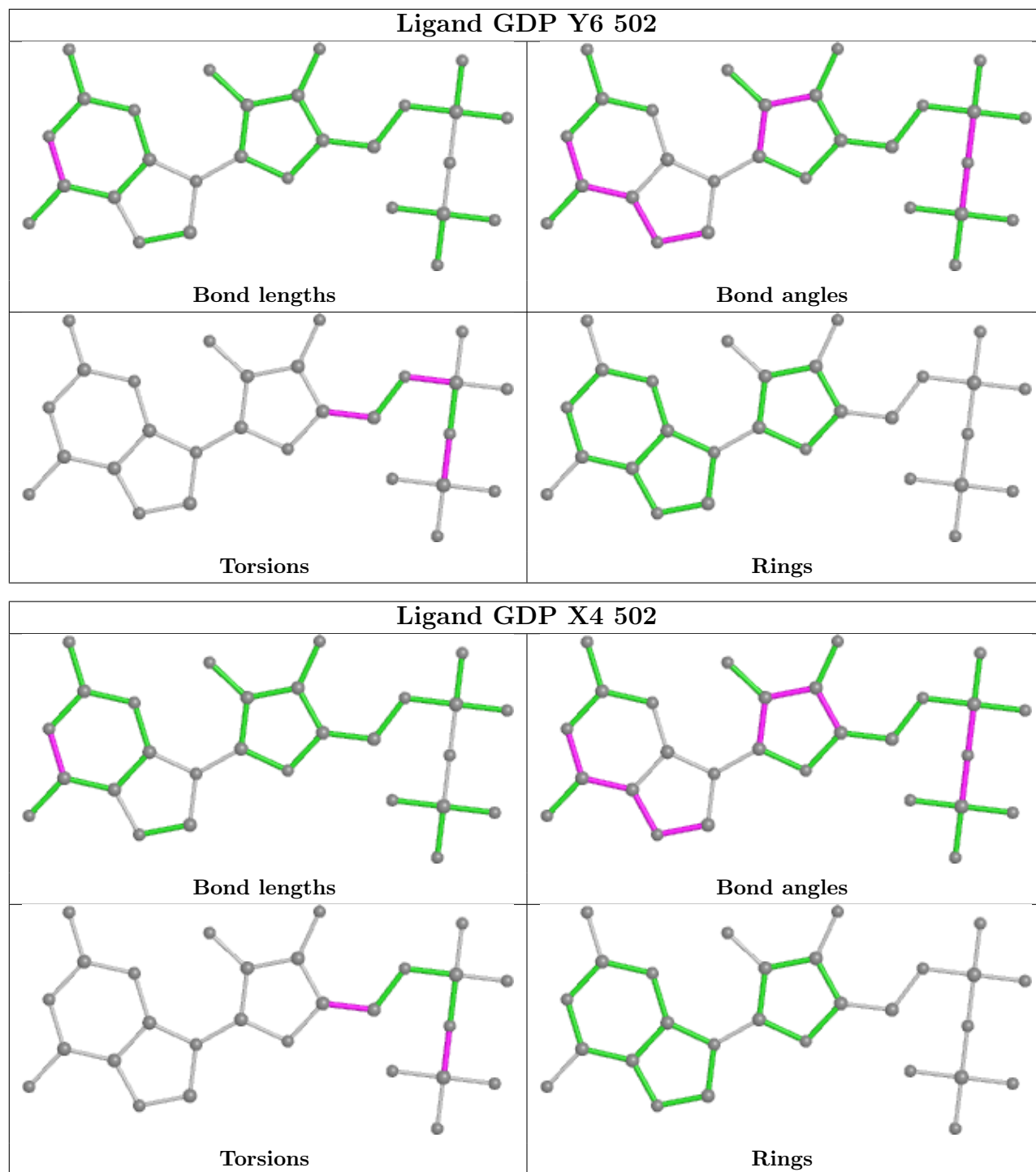


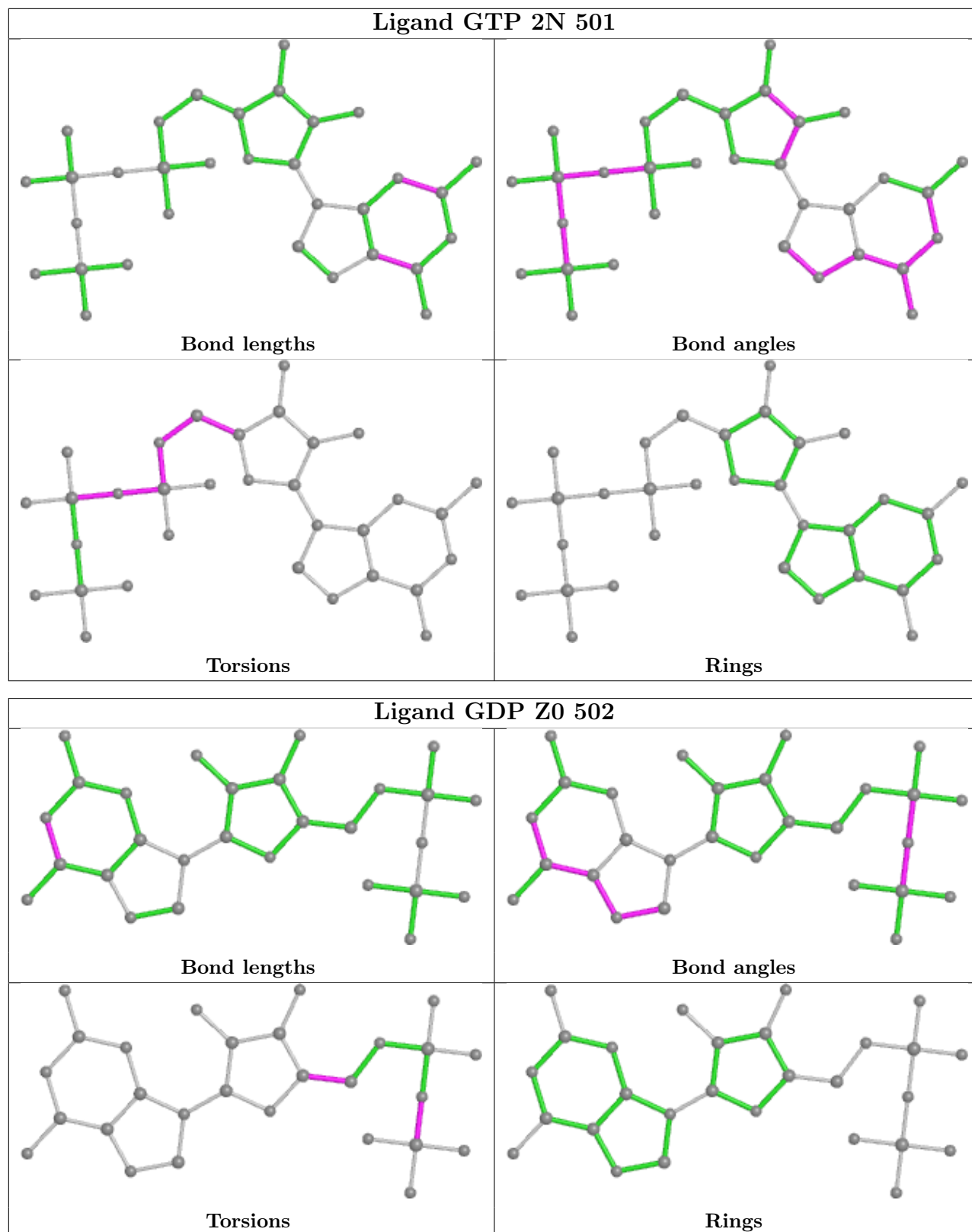


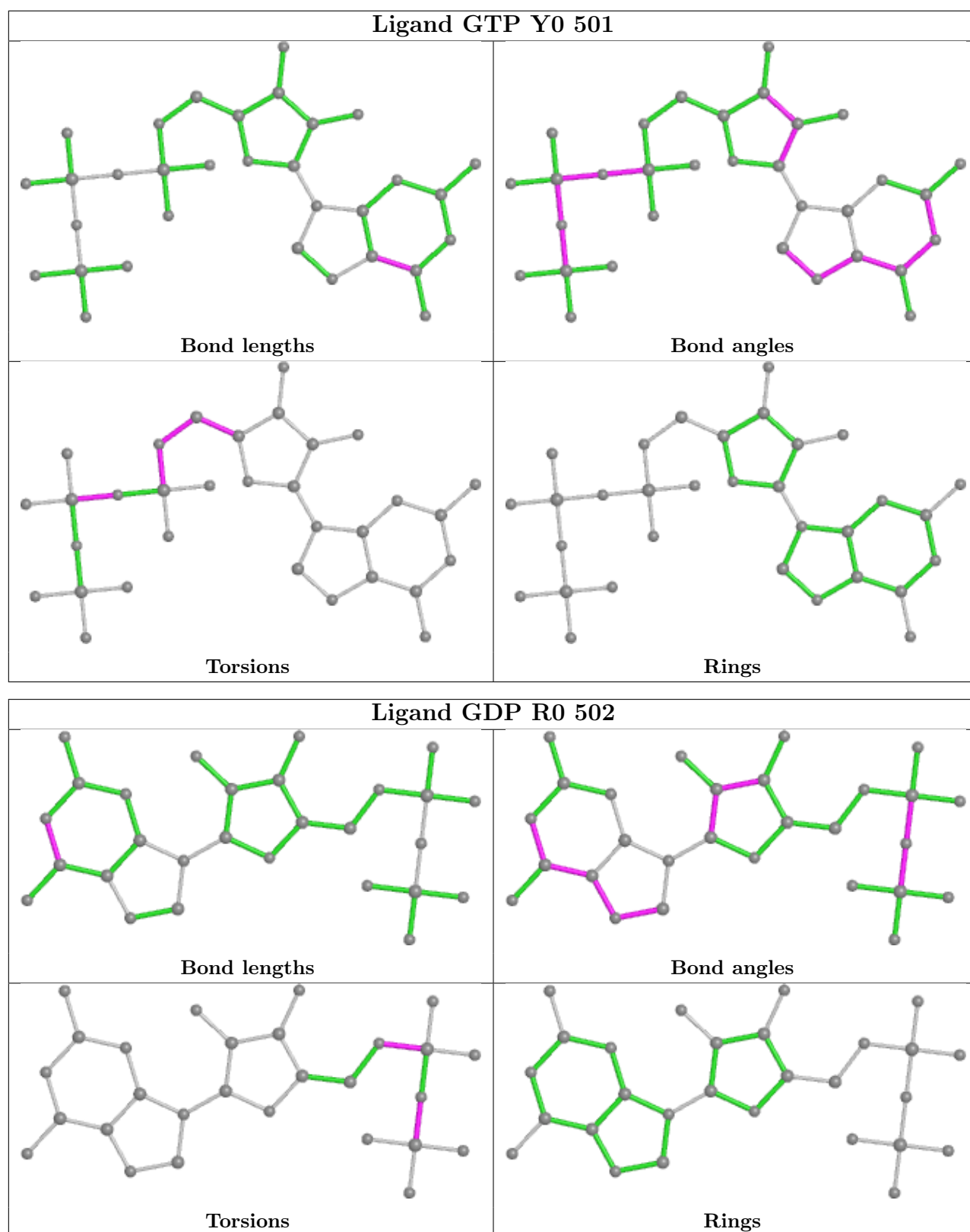


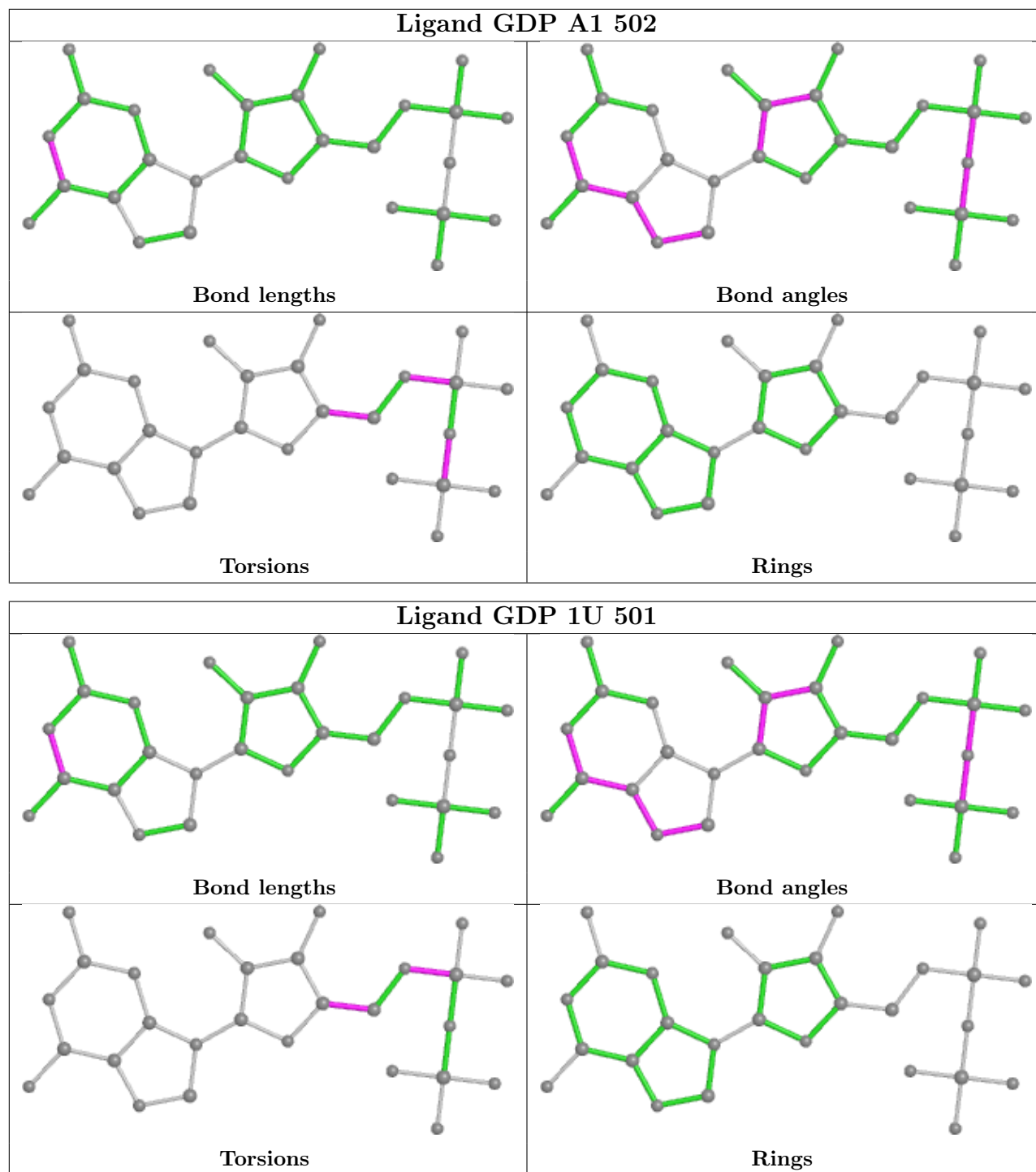


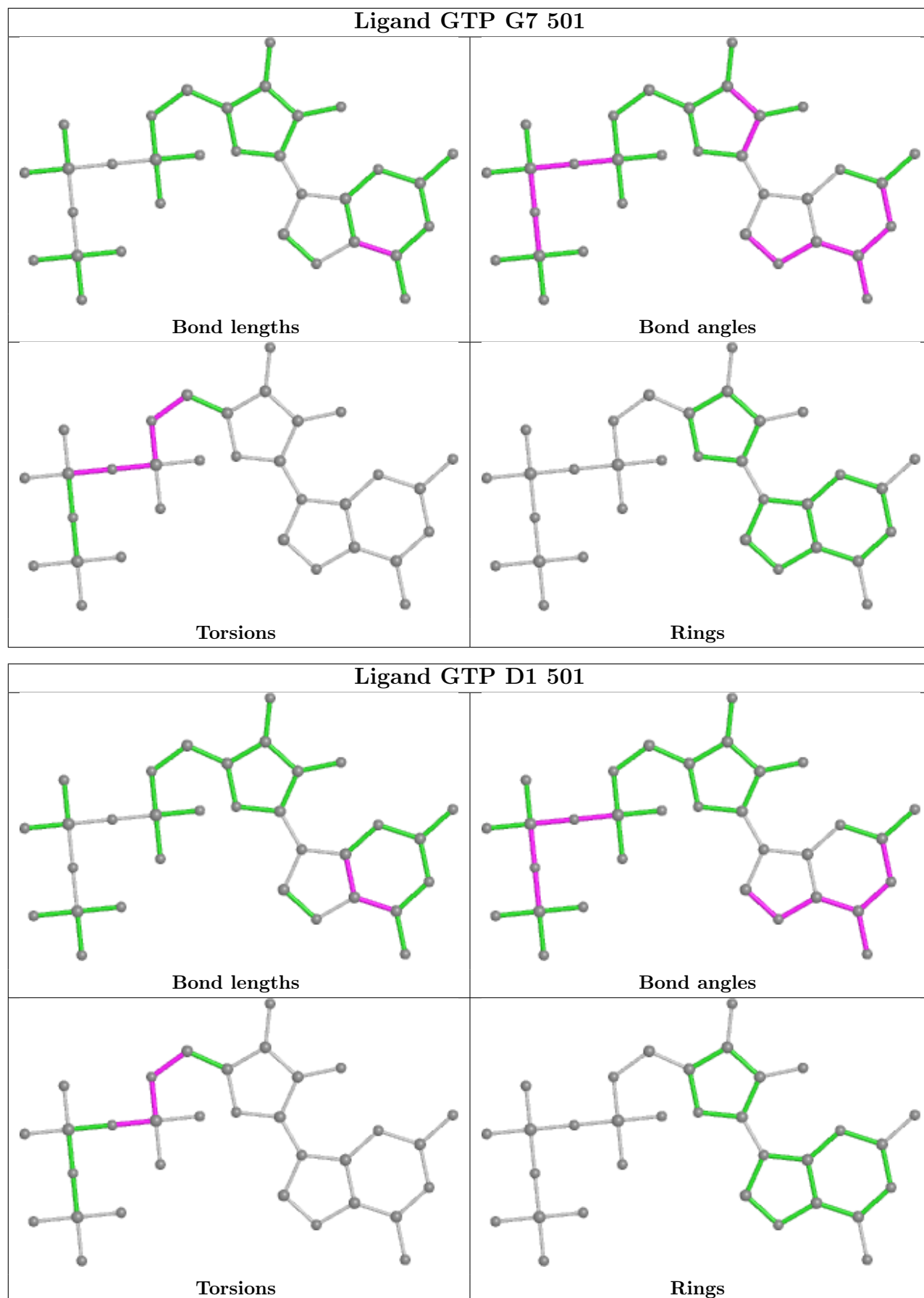


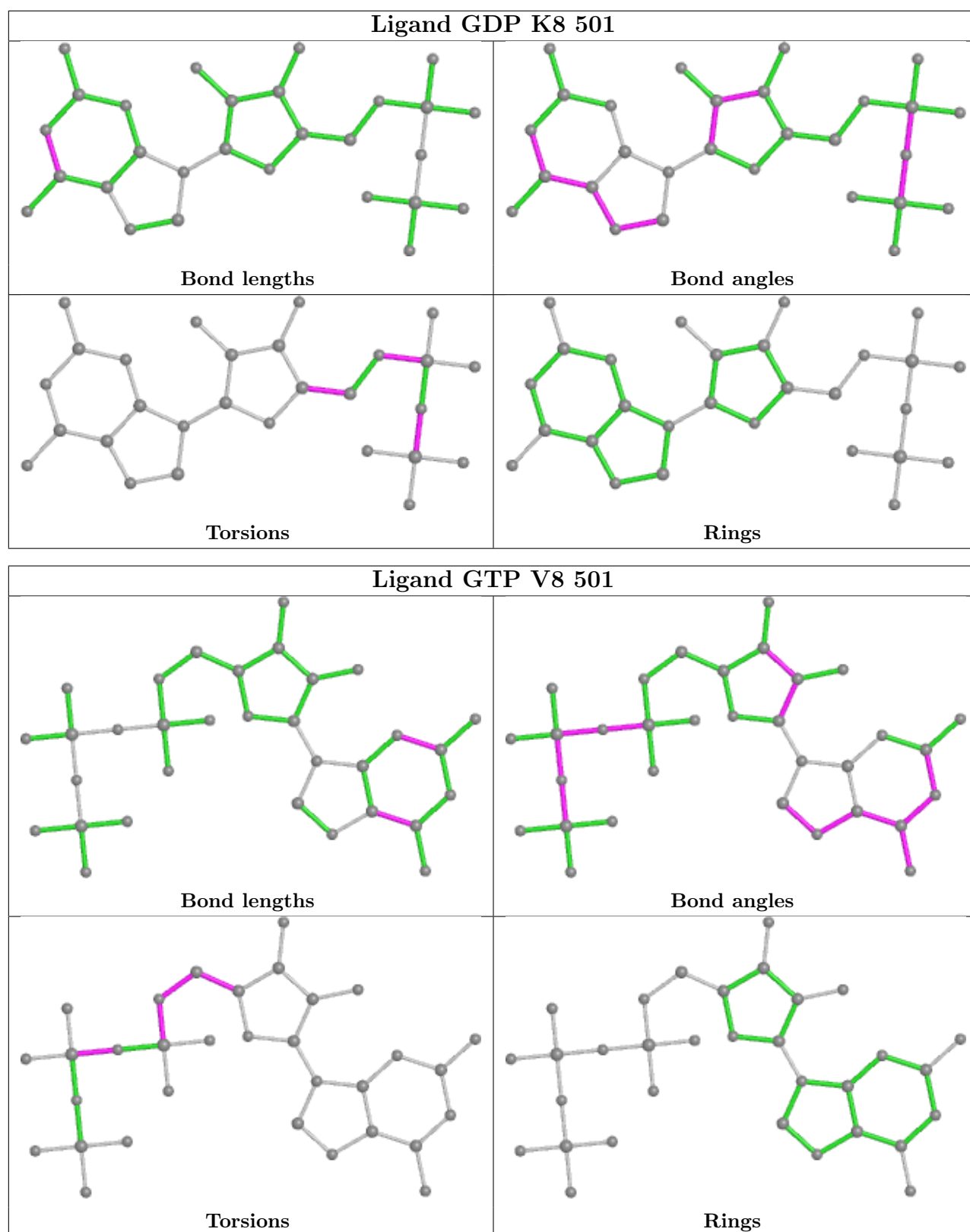












5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Map visualisation

This section contains visualisations of the EMDB entry EMD-20631. 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

This section was not generated.

6.2 Central slices

This section was not generated.

6.3 Largest variance slices

This section was not generated.

6.4 Orthogonal surface views

This section was not generated.

6.5 Mask visualisation

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

This section was not generated.

7.2 Volume estimate versus contour level

This section was not generated.

7.3 Rotationally averaged power spectrum

This section was not generated. The rotationally averaged power spectrum had issues being displayed.

8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit

This section was not generated.